

Radio Test Report

Manufacturer: Blues Inc.
Starnote for Iridium



In accordance with FCC 47 CFR Part 25, FCC 47 CFR Part 2 and Industry Canada RSS-170 and Industry Canada RSS-GEN

Prepared for: Blues Inc.
50 Harbor Street
Manchester, Massachusetts 01944 USA

COMMERCIAL-IN-CONFIDENCE

721021685-01 Issue 01

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Ferdinand Custodio	EMC Sr Test Engineer/Wireless Team Lead	Authorised Signatory	16 September 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 25, FCC 47 CFR Part 2, Industry Canada RSS-170 and Industry Canada RSS-GEN (2017, 2017, Issue 3, 2015 and Issue 4 and 2014) for the tests detailed in section 1.3.

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
01	First version	09/16/2026

Table 1

1.2 Introduction

Applicant	Blues Inc.
Manufacturer	Blues Inc.
Model Number(s)	Starnote for Iridium
Serial Number(s)	1A010K
Number of Samples Tested	1
Test Specification/Issue/Date	FCC 47 CFR Part 25, FCC 47 CFR Part 2, Industry Canada RSS-170 and Industry Canada RSS-GEN (2017, 2017, Issue 3, 2015 and Issue 4, 2014)
Order Number	200210025265
Date	June 1 st 2026
Date of Receipt of EUT	June 10 th 2026
Start of Test	July 28 th 2026
Finish of Test	August 01 st 2026
Name of Engineer(s)	Rafael Aguiar Cota / Miguel Angel Rabago Garcia
Related Document(s)	ANSI C63.26 (2015)



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 25, FCC 47 CFR Part 2 and Industry Canada RSS-170 and Industry Canada RSS-GEN is shown below.

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: Tx Mode-_-Starnote for Iridium				
2.1	25.202(f), 2.1051, 5.4.3.1 and 6.13(GEN)	Radiated Spurious Emissions	Compliant	ANSI C63.26 (2015)
2.2	25.216 and 5.4.3	Limits on Emissions from Mobile Earth Stations for Protection of Aeronautical Radio Navigation Satellite Service	Compliant	ANSI C63.26 (2015)

Table 2

1.4 Product Information

1.4.1 Technical Description

The Equipment Under Test (EUT) was a companion system-on-Module card for Notecard that add pre-certified satellite connectivity to other connected products.



Equipment Under Test.

1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.6 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted

Table 3

1.7 Test Location

TÜV SÜD conducted the following tests at our San Diego Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: Tx Mode_-Starnote for Iridium		
Radiated Spurious Emissions	Rafael Aguiar Cota	-
Limits on Emissions from Mobile Earth Stations for Protection of Aeronautical Radio Navigation Satellite Service	Rafael Aguiar Cota	-

Laboratory Address: 10040 Mesa Rim Road,
San Diego, CA,
92121, US





2 Test Details

2.1 Radiated Spurious Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 25, FCC 47 CFR Part 2, Industry Canada RSS-170 and Industry Canada RSS-GEN, Clause 25.202(f), 2.1051, 5.4.3.1 and 6.13(GEN)

2.1.2 Equipment Under Test and Modification State

Serial Number: 1A010K /RAC

2.1.3 Date of Test

August 01, 2006

2.1.4 Test Method

Tx Mode- -Starnote for Iridium

Prescans were performed using the direct field strength method.

2.1.5 Environmental Conditions

Ambient Temperature 25.4°C
Relative Humidity 39%

2.1.6 Additional Observations

Measurement was done using EMX automated software. Reported level is the actual level with all the correction factors factored in. Correction factors across the frequency range measured are registered as a transducer factor at the ESW (Measuring Receiver) by EMX automated software.

Transducer: 30MHz to 1GHz		
Correction Factor (dB) @30MHz	Measuring Cable (EMX-CB72786.DAT)	0.17
	Trilog-Broadband Antenna (EMX-AN69564.DAT)	12.17
Transducer factor in ESW Receiver @ 30MHz (dB)		12.34

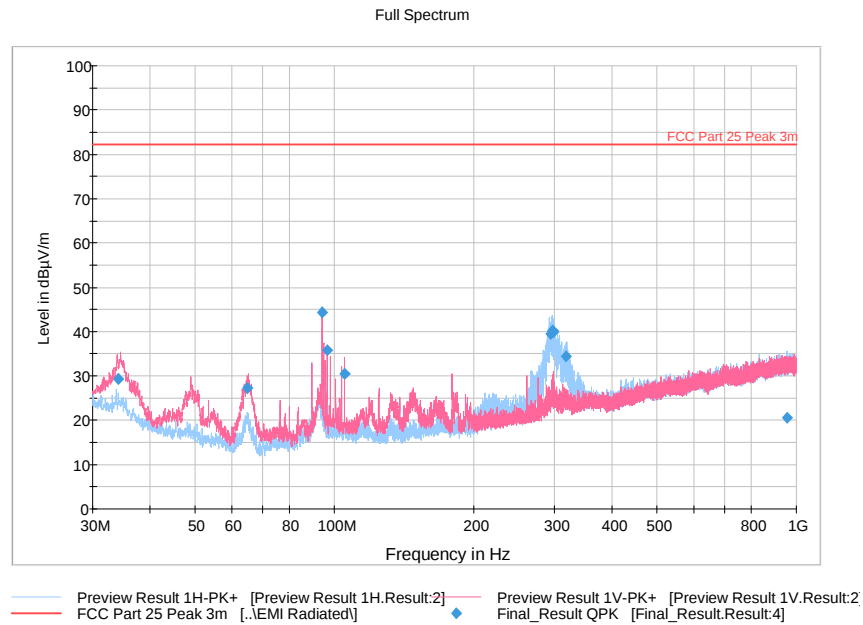
Transducer: Idle 1to8GHz		
Correction Factor (dB) @ 1GHz	SSU Switch (GN1301.DAT)	-44.60
	Measuring Cable (EMX-CB72787.DAT)	1.06
	Measuring Cable (EMX-CB72780.DAT)	0.57
	Horn Antenna (EMX-AN69563.DAT)	29.39
Transducer factor in ESW Receiver @ 1GHz (dB)		-13.58

Transducer: 8-18GHz		
Correction Factor (dB) @ 8GHz	Pre-Amplifier (EMX-PA78961.DAT)	-44.52
	SSU Switch (ST4918.dat)	1.60
	Measuring Cable (EMX-CB72787.DAT)	1.06
	Measuring Cable (EMX-CB72780.DAT)	0.57
	Horn Antenna (EMX-AN69562.DAT)	30.89
Transducer factor in ESW Receiver @ 8GHz (dB)		-10.40

2.1.7 Test Results

Tx Mode- -Iridium modem

2.1.8 Test Results 30MHz to 1GHz Low Channel (1616.02083333MHz)

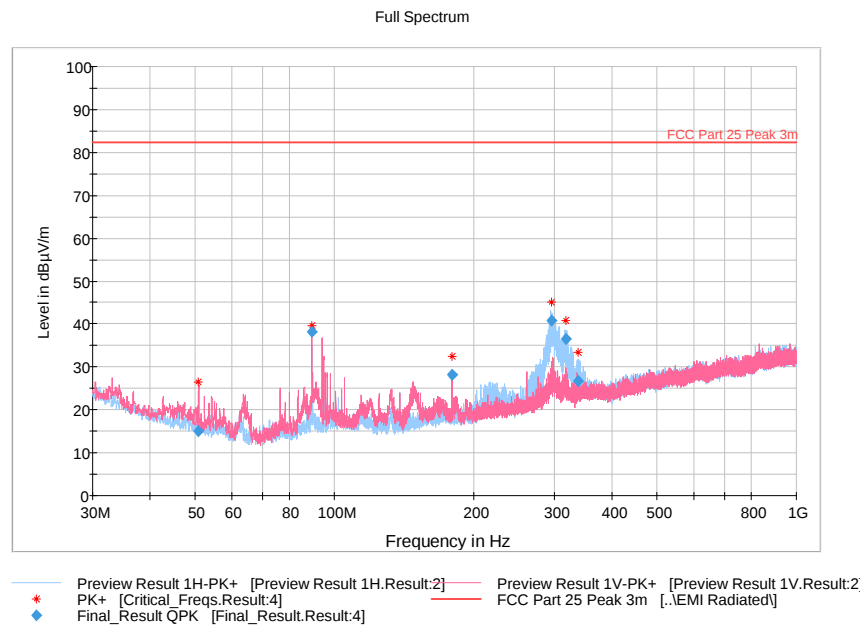




30MHz to 1GHz Low Channel Quasi Peak Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.022000	29.30	82.23	52.93	15000.0	120.000	100.0	V	42.0	20
64.847667	27.34	82.23	54.89	15000.0	120.000	189.0	V	237.0	12
94.124667	44.37	82.23	37.86	15000.0	120.000	100.0	V	95.0	15
96.534333	35.82	82.23	46.41	15000.0	120.000	110.0	V	109.0	16
105.304333	30.59	82.23	51.64	15000.0	120.000	107.0	V	309.0	15
293.286333	39.53	82.23	42.70	15000.0	120.000	110.0	H	98.0	20
296.511000	39.91	82.23	42.32	15000.0	120.000	109.0	H	88.0	20
296.723000	40.17	82.23	42.06	15000.0	120.000	110.0	H	266.0	20
296.754333	40.12	82.23	42.11	15000.0	120.000	125.0	H	81.0	20
298.840000	39.92	82.23	42.31	15000.0	120.000	109.0	H	74.0	21
317.544333	34.42	82.23	47.81	15000.0	120.000	107.0	H	262.0	21
953.327333	20.53	82.23	61.70	15000.0	120.000	108.0	H	213.0	30

2.1.9 Test Results 30MHz to 1GHz Middle Channel (1621.02082533MHz)

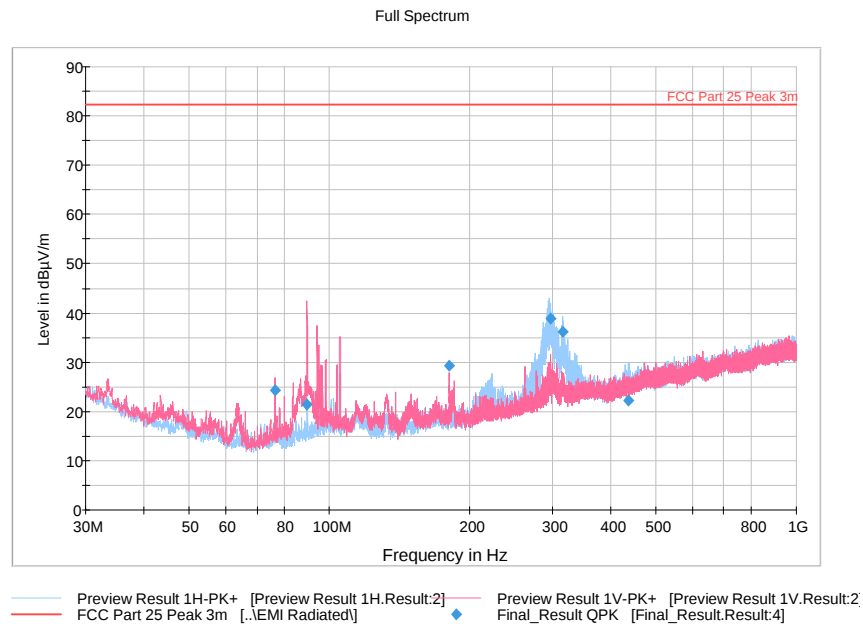




30MHz to 1GHz Middle Channel Quasi Peak Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.807333	15.02	82.23	67.21	15000.0	120.000	107.0	V	121.0	14
89.525667	38.09	82.23	44.14	15000.0	120.000	108.0	V	129.0	14
180.325333	28.25	82.23	53.98	15000.0	120.000	115.0	V	54.0	17
295.574333	40.82	82.23	41.41	15000.0	120.000	109.0	H	92.0	20
316.396667	36.59	82.23	45.64	15000.0	120.000	100.0	H	252.0	21
336.610000	26.63	82.23	55.60	15000.0	120.000	107.0	H	87.0	21

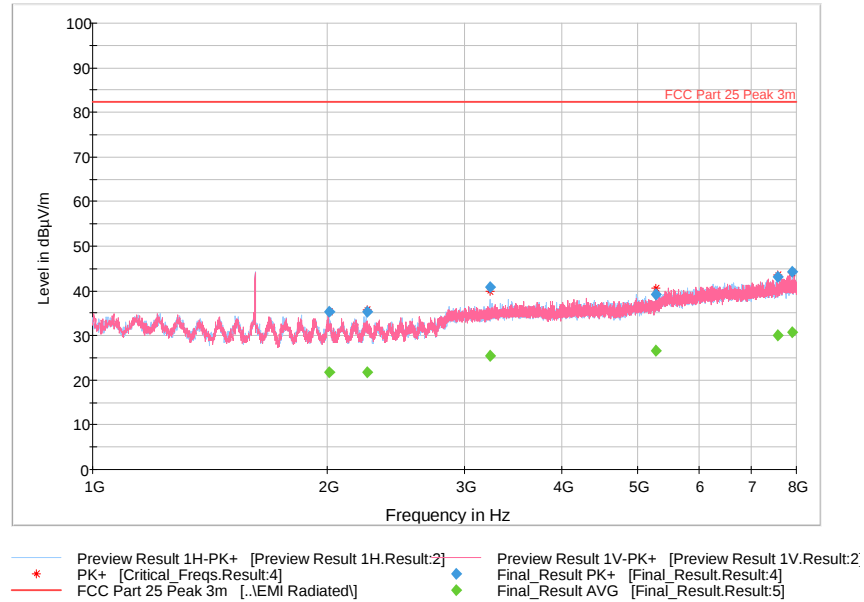
2.1.10 Test Results 30MHz to 1GHz High Channel (1625.97915073MHz)



30MHz to 1GHz High Channel Quasi Peak Data

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
76.438333	24.34	82.23	57.89	15000.0	120.000	100.0	V	33.0	12
89.493333	21.33	82.23	60.90	15000.0	120.000	125.0	V	207.0	14
180.310000	29.23	82.23	53.00	15000.0	120.000	107.0	V	17.0	17
297.666667	38.93	82.23	43.30	15000.0	120.000	108.0	H	269.0	21
315.960333	36.08	82.23	46.15	15000.0	120.000	100.0	H	268.0	21
436.870667	22.27	82.23	59.96	15000.0	120.000	225.0	H	108.0	23

2.1.11 Test Results 1GHz to 8GHz Low Channel (1616.02083333MHz)

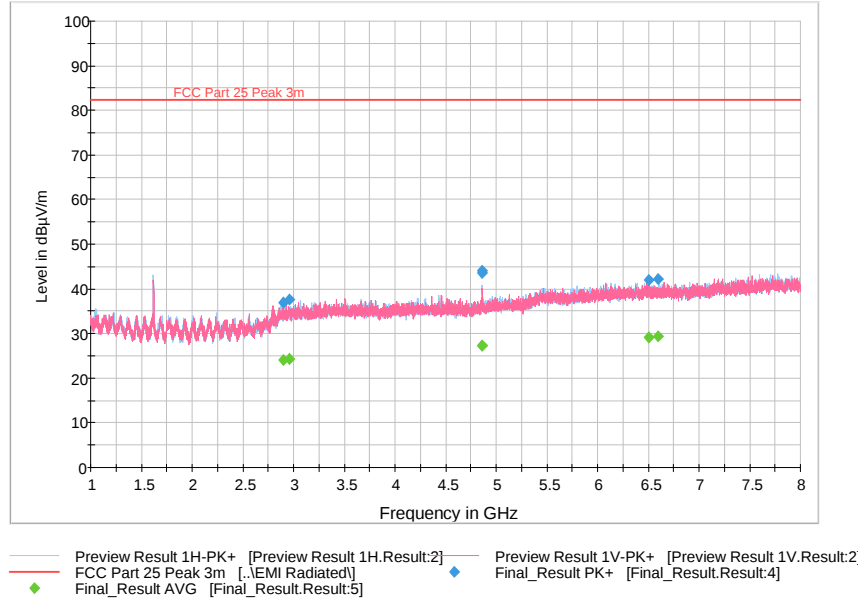


1GHz to 8GHz Low Channel Peak and Average Data

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2013.932000	---	21.90	---	---	1000.0	1000.000	350.0	V	289.0	-15
2013.932000	35.41	---	82.23	46.82	1000.0	1000.000	350.0	V	289.0	-15
2247.659500	---	21.68	---	---	1000.0	1000.000	200.0	H	199.0	-15
2247.659500	35.37	---	82.23	46.86	1000.0	1000.000	200.0	H	199.0	-15
3232.140500	40.81	---	82.23	41.42	1000.0	1000.000	300.0	H	193.0	-13
3232.140500	---	25.41	---	---	1000.0	1000.000	300.0	H	193.0	-13
5289.810500	39.20	---	82.23	43.03	1000.0	1000.000	300.0	V	53.0	-11
5289.810500	---	26.54	---	---	1000.0	1000.000	300.0	V	53.0	-11
7579.589500	---	30.06	---	---	1000.0	1000.000	200.0	H	246.0	-8
7579.589500	43.06	---	82.23	39.17	1000.0	1000.000	200.0	H	246.0	-8
7897.504000	---	30.80	---	---	1000.0	1000.000	300.0	V	26.0	-7
7897.504000	44.34	---	82.23	37.89	1000.0	1000.000	300.0	V	26.0	-7



2.1.12 Test Results 1GHz to 8GHz Middle Channel (1621.02082533MHz)

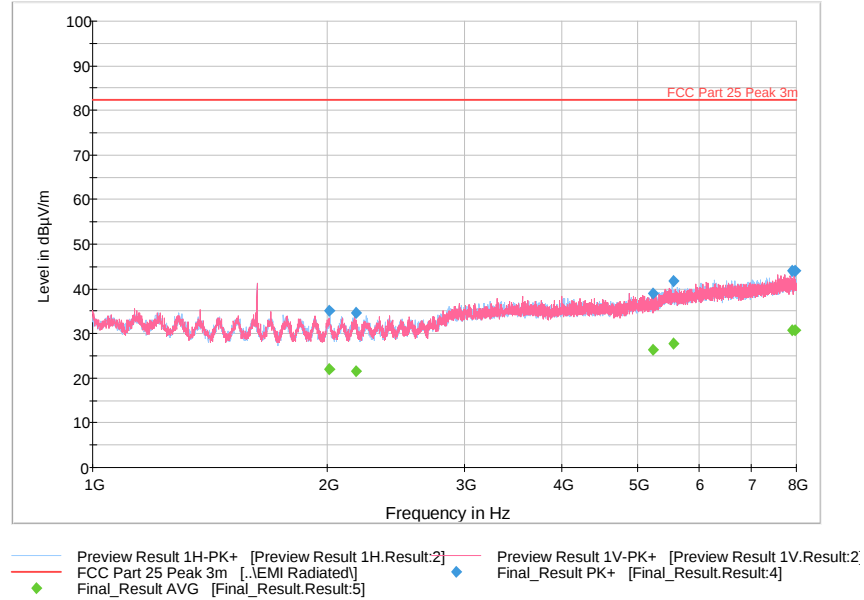


1GHz to 8GHz Middle Channel Peak and Average Data

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2898.538500	---	24.02	---	---	1000.0	1000.000	300.0	H	179.0	-13
2898.538500	36.96	---	82.23	45.27	1000.0	1000.000	300.0	H	179.0	-13
2955.093000	37.56	---	82.23	44.67	1000.0	1000.000	200.0	V	41.0	-13
2955.093000	---	24.35	---	---	1000.0	1000.000	200.0	V	41.0	-13
4862.985500	---	27.20	---	---	1000.0	1000.000	350.0	H	46.0	-11
4862.985500	43.95	---	82.23	38.28	1000.0	1000.000	350.0	H	46.0	-11
4863.085000	---	27.24	---	---	1000.0	1000.000	350.0	H	46.0	-11
4863.085000	43.53	---	82.23	38.70	1000.0	1000.000	350.0	H	46.0	-11
6507.201500	---	29.23	---	---	1000.0	1000.000	350.0	V	341.0	-9
6507.201500	41.92	---	82.23	40.31	1000.0	1000.000	350.0	V	341.0	-9
6596.405000	42.19	---	82.23	40.04	1000.0	1000.000	300.0	H	12.0	-9
6596.405000	---	29.28	---	---	1000.0	1000.000	300.0	H	12.0	-9



2.1.13 Test Results 1GHz to 8GHz High Channel (1625.97915073MHz)

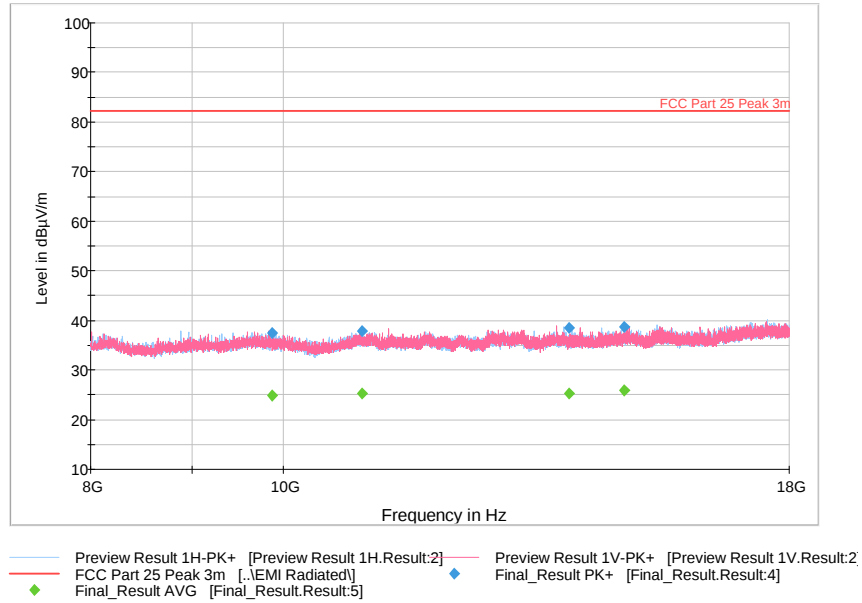


1GHz to 8GHz High Channel Peak and Average Data

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2011.375000	---	22.02	---	---	1000.0	1000.000	350.0	H	30.0	-15
2011.375000	35.12	---	82.23	47.11	1000.0	1000.000	350.0	H	30.0	-15
2176.431500	34.53	---	82.23	47.70	1000.0	1000.000	350.0	V	65.0	-15
2176.431500	---	21.50	---	---	1000.0	1000.000	350.0	V	65.0	-15
5230.485000	39.00	---	82.23	43.23	1000.0	1000.000	102.0	V	74.0	-11
5230.485000	---	26.28	---	---	1000.0	1000.000	102.0	V	74.0	-11
5555.332500	41.69	---	82.23	40.54	1000.0	1000.000	102.0	H	36.0	-10
5555.332500	---	27.75	---	---	1000.0	1000.000	102.0	H	36.0	-10
7896.684000	44.14	---	82.23	38.09	1000.0	1000.000	102.0	H	161.0	-7
7896.684000	---	30.81	---	---	1000.0	1000.000	102.0	H	161.0	-7
7981.435500	---	30.74	---	---	1000.0	1000.000	200.0	V	276.0	-7
7981.435500	43.98	---	82.23	38.25	1000.0	1000.000	200.0	V	276.0	-7



2.1.14 Test Results 8GHz to 18GHz Low Channel (1616.02083333MHz)

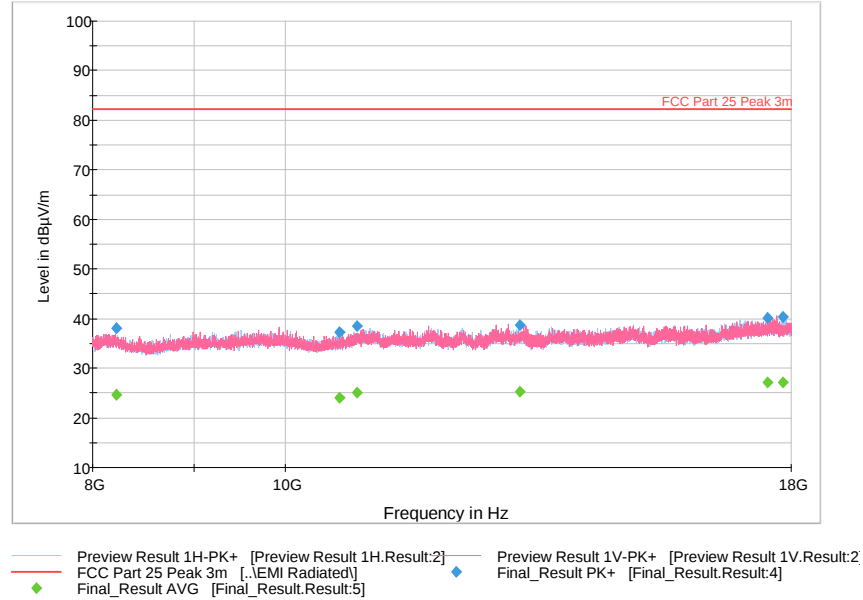


8GHz to 18GHz Low Channel Peak and Average Data

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9875.805000	37.45	---	82.23	44.78	1000.0	1000.000	300.0	V	50.0	-7
9875.805000	---	24.82	---	---	1000.0	1000.000	300.0	V	50.0	-7
10961.684000	---	25.19	---	---	1000.0	1000.000	200.0	H	33.0	-7
10961.684000	37.94	---	82.23	44.29	1000.0	1000.000	200.0	H	33.0	-7
13942.635000	---	25.30	---	---	1000.0	1000.000	102.0	H	53.0	-5
13942.635000	38.46	---	82.23	43.77	1000.0	1000.000	102.0	H	53.0	-5
14869.613000	38.68	---	82.23	43.55	1000.0	1000.000	200.0	V	359.0	-4
14869.613000	---	25.87	---	---	1000.0	1000.000	200.0	V	359.0	-4



2.1.15 Test Results 8GHz to 18GHz Middle Channel (1621.02082533MHz)

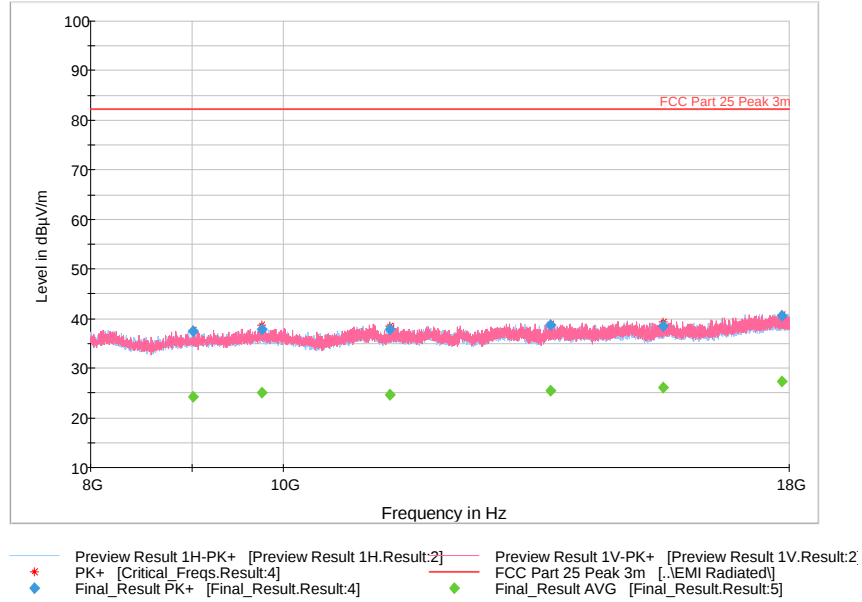


8GHz to 18GHz Middle Channel Peak and Average Data

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8219.316000	37.99	---	82.23	44.24	1000.0	1000.000	200.0	V	38.0	-8
8219.316000	---	24.58	---	---	1000.0	1000.000	200.0	V	38.0	-8
10653.005000	37.27	---	82.23	44.96	1000.0	1000.000	200.0	H	271.0	-7
10653.005000	---	24.11	---	---	1000.0	1000.000	200.0	H	271.0	-7
10871.422000	---	25.02	---	---	1000.0	1000.000	200.0	V	25.0	-7
10871.422000	38.47	---	82.23	43.76	1000.0	1000.000	200.0	V	25.0	-7
13141.025000	38.77	---	82.23	43.46	1000.0	1000.000	350.0	H	30.0	-5
13141.025000	---	25.37	---	---	1000.0	1000.000	350.0	H	30.0	-5
17518.964000	40.24	---	82.23	41.99	1000.0	1000.000	300.0	V	311.0	-2
17518.964000	---	27.04	---	---	1000.0	1000.000	300.0	V	311.0	-2
17831.026000	---	27.10	---	---	1000.0	1000.000	300.0	H	356.0	-2
17831.026000	40.35	---	82.23	41.88	1000.0	1000.000	300.0	H	356.0	-2



2.1.16 Test Results 8GHz to 18GHz High Channel (1625.97915073MHz)



8GHz to 18GHz High Channel Peak and Average Data

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9014.349000	---	24.32	---	---	1000.0	1000.000	350.0	V	77.0	-7
9014.349000	37.45	---	82.23	44.78	1000.0	1000.000	350.0	V	77.0	-7
9761.584000	37.95	---	82.23	44.28	1000.0	1000.000	350.0	V	248.0	-7
9761.584000	---	25.12	---	---	1000.0	1000.000	350.0	V	248.0	-7
11318.195000	---	24.57	---	---	1000.0	1000.000	300.0	V	205.0	-6
11318.195000	37.89	---	82.23	44.34	1000.0	1000.000	300.0	V	205.0	-6
13638.613000	---	25.43	---	---	1000.0	1000.000	102.0	H	349.0	-5
13638.613000	38.63	---	82.23	43.60	1000.0	1000.000	102.0	H	349.0	-5
15552.879000	---	26.14	---	---	1000.0	1000.000	350.0	V	139.0	-4
15552.879000	38.55	---	82.23	43.68	1000.0	1000.000	350.0	V	139.0	-4
17860.033000	40.48	---	82.23	41.75	1000.0	1000.000	102.0	V	300.0	-2
17860.033000	---	27.35	---	---	1000.0	1000.000	102.0	V	300.0	-2



FCC 47 CFR Part 2, Limit Clause 25.202(f)

The average power of unwanted emissions shall be attenuated below the average output power, P(dBW), of the transmitter, as specified below:

25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the authorised bandwidth;
35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the authorised bandwidth;
43 + 10 Log p (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the authorised bandwidth.

Industry Canada RSS-170, Limit Clause 5.4.3.1

The average power of unwanted emissions shall be attenuated below the average output power, P(dBW), of the transmitter, as specified below:

25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the occupied bandwidth or necessary bandwidth, whichever is greater;
35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the occupied bandwidth or necessary bandwidth, whichever is greater;
43 + 10 Log p (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater.

2.1.17 Test Location and Test Equipment Used

This test was carried out in SR5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (Months)	Calibration Expires
BiConiLog Antenna	ETS Lindgren	3142C	31446	12	11-24-2026
7.5-18 GHz Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik	HWRD 750	69562	12	12-16-2027
1-10GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	12	12-16-2027
TUVSSU 010 PLC US	TUV SUD UK	TUVSSU 010 PLC US	74136	12	04-14-2027
18-26GHz Antenna	Custom Microwave, Inc.	HO42S	30572	12	12-16-2027
ESW44 EMI Test Receiver	Rohde & Schwarz	ESW44	68302	12	02-17-2027
7GHz to 18GHz PreAmp	Ciao Wireless	CA718-403015N-FM	78961	12	11-08-2026

Table 4



2.2 Limits on Emissions from Mobile Earth Stations for Protection of Aeronautical Radio Navigation Satellite Service

2.2.1 Specification Reference

FCC 47 CFR Part 25, FCC 47 CFR Part 2, Industry Canada RSS-170 and Industry Canada RSS-GEN, Clause 25.216 and 5.4.3

2.2.2 Equipment Under Test and Modification State

Serial Number: 1A010K /RAC

2.2.3 Date of Test

August 01, 2006

2.2.4 Test Method

Tx Mode- -Starnote for Iridium

Prescans were performed using the direct field strength method.

2.2.5 Environmental Conditions

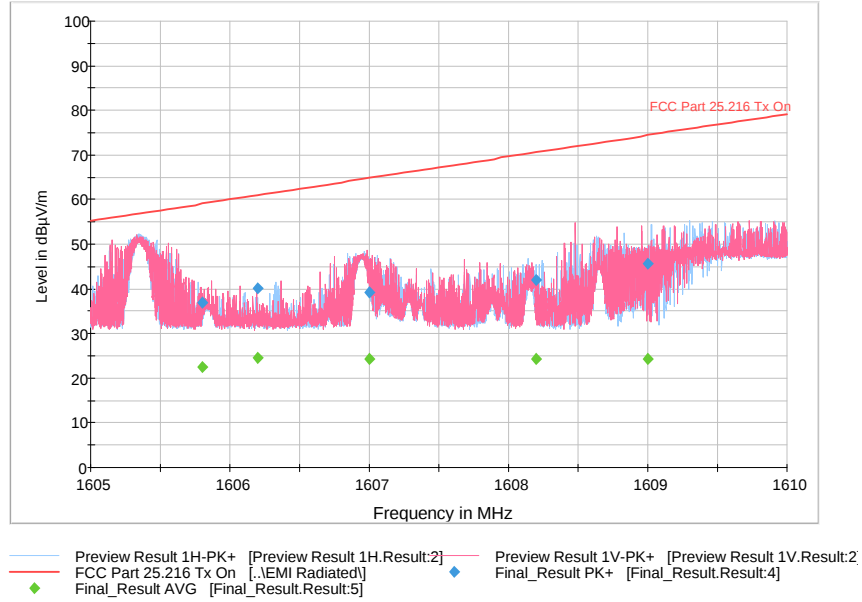
Ambient Temperature	25.4°C
Relative Humidity	39%

2.2.6 Test Results

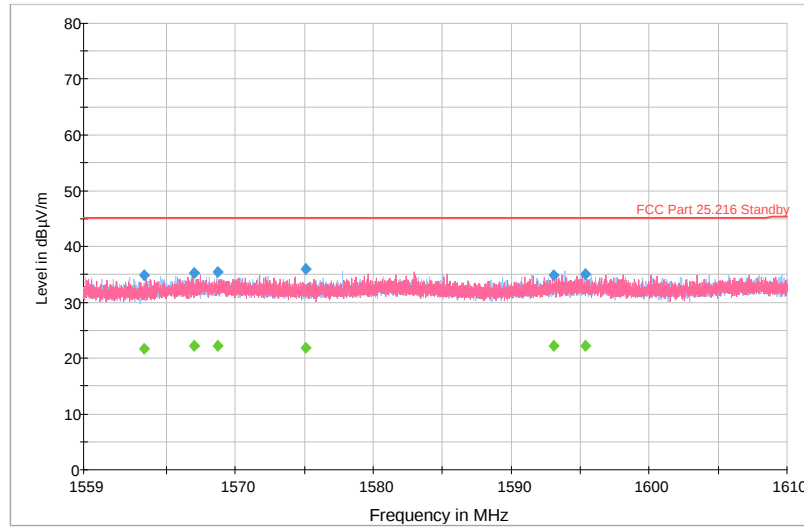
Tx Mode- -Iridium modem



2.2.7 Test Results



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1605.800000	36.98	---	59.07	22.09	1000.0	1000.000	200.0	H	154.0	-15
1605.800000	---	22.55	---	---	1000.0	1000.000	200.0	H	154.0	-15
1606.200000	---	24.56	---	---	1000.0	1000.000	102.0	H	267.0	-15
1606.200000	40.22	---	60.99	20.77	1000.0	1000.000	350.0	H	254.0	-15
1607.000000	---	24.22	---	---	1000.0	1000.000	350.0	H	176.0	-15
1607.000000	39.23	---	64.83	25.60	1000.0	1000.000	350.0	H	176.0	-15
1608.200000	---	24.28	---	---	1000.0	1000.000	102.0	H	267.0	-15
1608.200000	42.03	---	70.59	28.56	1000.0	1000.000	200.0	V	100.0	-15
1609.000000	45.63	---	74.43	28.80	1000.0	1000.000	200.0	V	85.0	-15
1609.000000	---	24.30	---	---	1000.0	1000.000	200.0	V	85.0	-15



— Preview Result 1H-PK+ [Preview Result 1H.Result:2] — Preview Result 1V-PK+ [Preview Result 1V.Result:2]
— FCC Part 25.216 Standby [..EMI Radiated] ◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1563.400000	34.87	---	45.20	10.34	1000.0	1000.000	102.0	H	83.0	-15
1563.400000	---	21.59	---	---	1000.0	1000.000	102.0	H	83.0	-15
1567.000000	---	22.12	---	---	1000.0	1000.000	300.0	H	52.0	-15
1567.000000	35.27	---	45.21	9.94	1000.0	1000.000	300.0	H	52.0	-15
1568.760300	---	22.24	---	---	1000.0	1000.000	102.0	V	250.0	-15
1568.760300	35.44	---	45.21	9.76	1000.0	1000.000	102.0	V	250.0	-15
1575.080300	---	21.78	---	---	1000.0	1000.000	300.0	H	17.0	-15
1575.080300	35.92	---	45.21	9.29	1000.0	1000.000	300.0	H	17.0	-15
1593.079300	---	22.15	---	---	1000.0	1000.000	102.0	V	64.0	-15
1593.079300	34.92	---	45.22	10.30	1000.0	1000.000	102.0	V	64.0	-15
1595.406900	35.07	---	45.22	10.15	1000.0	1000.000	350.0	V	227.0	-15
1595.406900	---	22.26	---	---	1000.0	1000.000	350.0	V	227.0	-15



FCC 47 CFR Part 25, Limit Clause 25.216

25.216(h) Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from -70 dBW/MHz at 1605 MHz to -46 dBW/MHz at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from -80 dBW at 1605 MHz to -56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

25.216(i) The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after FEDERAL REGISTER publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed -80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

Industry Canada, RSS-170, Limit Clause 5.4.3.2.1

Mobile earth stations with transmitting frequencies between 1610 MHz and 1626.5 MHz shall have the e.i.r.p. density of unwanted emissions in the band 1605-1610 MHz, averaged over any 2-ms active transmission interval, not exceed the following limits:

- (1) -70 dBW/MHz at 1605 MHz, linearly interpolated to -10 dBW/MHz at 1610 MHz for broadband emissions; and
- (2) -80 dBW/kHz at 1605 MHz, linearly interpolated to -20 dBW/kHz at 1610 MHz for discrete emissions.



2.2.8 Test Location and Test Equipment Used

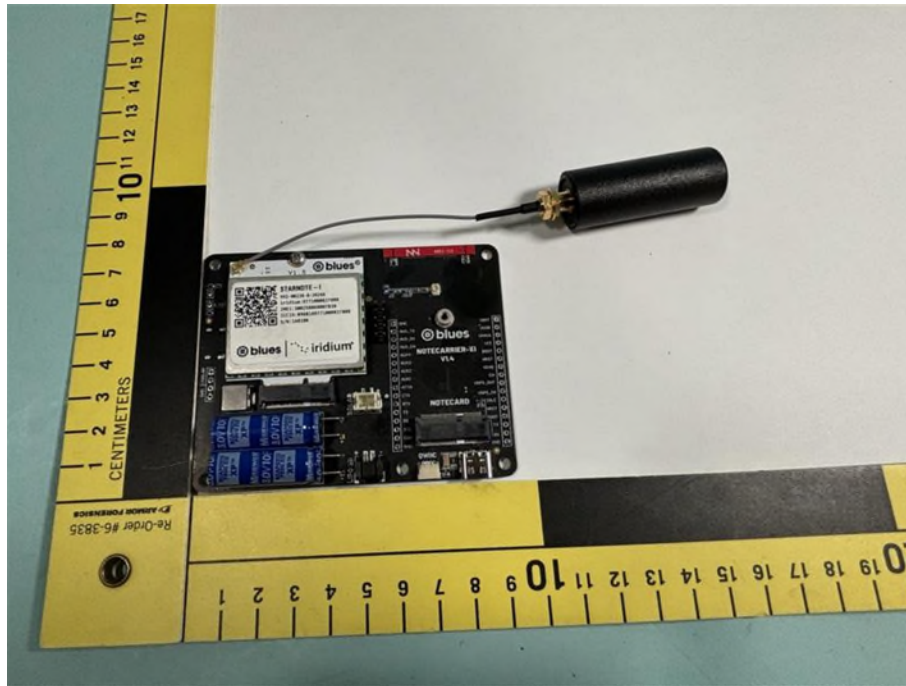
This test was carried out in SR5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (Months)	Calibration Expires
1-10GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	12	12-16-2027
TUVSSU 010 PLC US	TUV SUD UK	TUVSSU 010 PLC US	74136	12	04-14-2027
ESW44 EMI Test Receiver	Rohde & Schwarz	ESW44	68302	12	02-17-2027

Table 5

3 Photographs

3.1 Equipment Under Test (EUT)





4 Test Equipment Information

4.1 General Test Equipment Used

Miscellaneous					
30215	Temp, Humidity and Barometric Sensor	iBTHX-W	15050268	Omega	05-22-2026
N/A	EMX Test Software	N/A	N/A	TUV SUD UK	N/A

4.2 Customer Support Equipment

Support Equipment					
-	-	-	-	-	-



5 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Radiated Spurious Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 18 GHz: ± 6.3 dB
Limits on Emissions from Mobile Earth Stations for Protection of Aeronautical Radio Navigation Satellite Service	Conducted: ± 3.45 dB Radiated: ± 6.3 dB

Table 6

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.