

TEST REPORT

Application No.: FYCR2205000175AT
Applicant: Murata Manufacturing Co., Ltd.
Address of Applicant: 10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555 Japan
Manufacturer: Murata Manufacturing Co., Ltd.
Address of Manufacturer: 10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555 Japan
Factory: A. Shenzhen Murata Technology Co., Ltd.
 B. Komatsu Murata Manufacturing Co., Ltd.
Address of Factory: A. 15 CUIJING ROAD, SHENZHEN INDUSTRIAL ZONE PINGSHAN NEW DISTRICT SHENZHEN 518118 CHINA
 B. 93, Hikarimachi, Komatsu-shi, Ishikawa 923-8626 Japan
Equipment Under Test (EUT):
EUT Name: Communication Module
Model No.: LBUA0VG2BP
Trade Mark: muRata
FCC ID: VPYLB2BP
Standard(s) : 47 CFR Part 15 Subpart F
Date of Receipt: 2022-05-17
Date of Test: 2022-05-26 to 2022-07-07
Date of Issue: 2022-07-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-08		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

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2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Section 15.519(a2), 15.521(b), 15.203	N/A	PASS
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15 Section 15.521(j), 15.207	ANSI C63.10 (2013) Section 6.2	PASS
UWB Bandwidth	47 CFR Part 15 Section 15.503 (a) (d), 15.519(b), 15.521(e)	ANSI C63.10 (2013) Section10.1	PASS
Shutdown Timing Requirements	47 CFR Part 15 Section 15.519 (a)(1)	ANSI C63.10 (2013) Section7.8.4	PASS
Radiated Spurious Emissions	47 CFR Part 15 Section 15.519 (c)(d), 15.209, 15.521(c)(d)(h)	ANSI C63.10 (2013) Section10.2&10.3	PASS
Peak Power and Maximum Average Emissions	47 CFR Part 15 Section 15.519 (c) (e), 15.521(g)	ANSI C63.10 (2013) Section10.3	PASS

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark:

- 1.for 47 CFR Part 15.521 General Requirement, Section15.521(f) and (i) are not applicable for this product then not evaluated in the report.
2. UWB devices may not be employed for the operation of toys. Operation onboard an aircraft, a ship or a satellite is prohibited.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 1.8V
Operating Frequency:	CH5: 6489.6MHz, CH9: 7987.2MHz
Modulation Type:	BPM-BPSK
Number of Channels:	2
AntennaType:	Patch antenna
Antenna Gain:	CH5: 0.9dBi; CH9: 2.7dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	S/N
Laptop	Lenovo	L480	PF-1N6C3V
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
DC power supply	ZHAOXIN	PS-3005D	REF. No.SEA27B01
DC power supply	ZHAOXIN	PS-3005D	REF. No.SEA27B02

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB
Conducted Peak Output Power	± 0.75dB
UWB Bandwidth	± 3%
Peak Power and Maximum Average Emissions	±5.14dB
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2021/7/13	2022/7/12
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2021/7/13	2022/7/12
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10	2023/1/9
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

UWB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	CCS	N/A	N/A	2021/9/26	2022/9/25

Shutdown Timing Requirements					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12



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Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	CCS	N/A	N/A	2021/9/26	2022/9/25

Conducted Measurement

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz-6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	CCS	N/A	N/A	2021/9/26	2022/9/25

Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Above 1GHz



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2022-03-23	2023-03-22
Low Noise Amplifier	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15F Section 15.517(a3), 15.519(a2), 15.521(b), 15.203

6.1.2 Conclusion

§ 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

§15.519 a(2)

The use of antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure is prohibited. Antennas may be mounted only on the hand held UWB device.

EUT Antenna:

The antenna is connected on the port on PCB and no consideration of replacement. The best case gain of the antenna is CH5: 0.9dBi; CH9: 2.7dBi.

Antenna location: Refer to internal photo.



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7 Emission Test Results

7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement: 47 CFR Part 15 Section 15.521(j), 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C

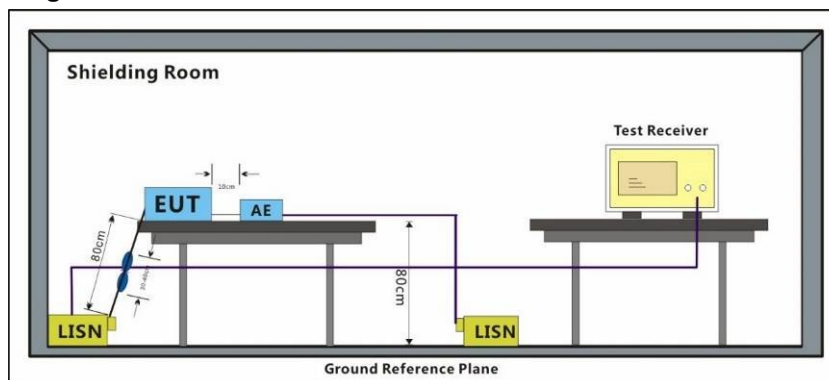
Humidity: 52.4 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

Frequency range: 150kHz-30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

Remark:

- 1) Measured Level= Read Level+ Cable Loss+ LISN Factor
- 2) All modes of CH5, CH9, BPRF and HPRF have been a fully pretest and listed the worst one data in the report.

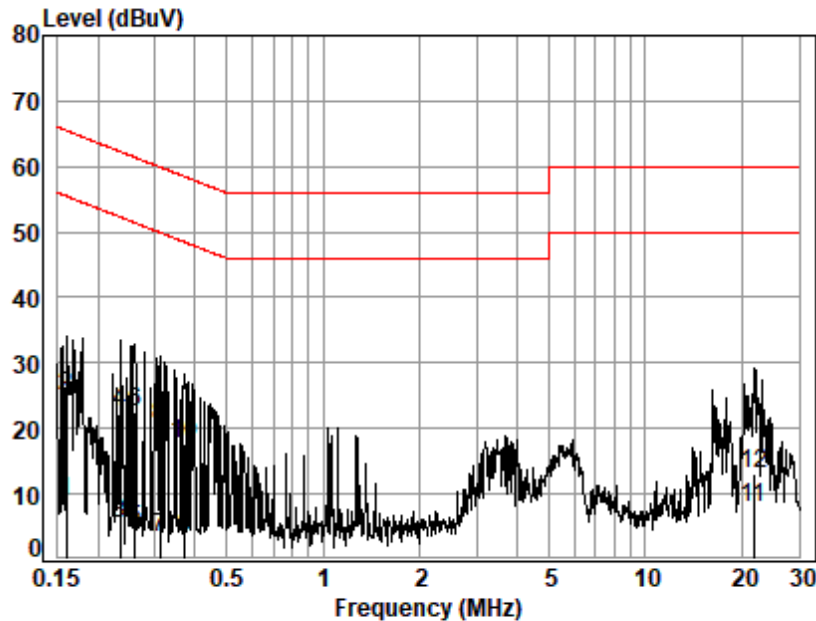


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Test Mode: 00; Line: Live line, CH 5, Mode: BPRF SP0



Site : Shielding Room
Condition: Line
Job No. : 00175AT
Test mode: 00

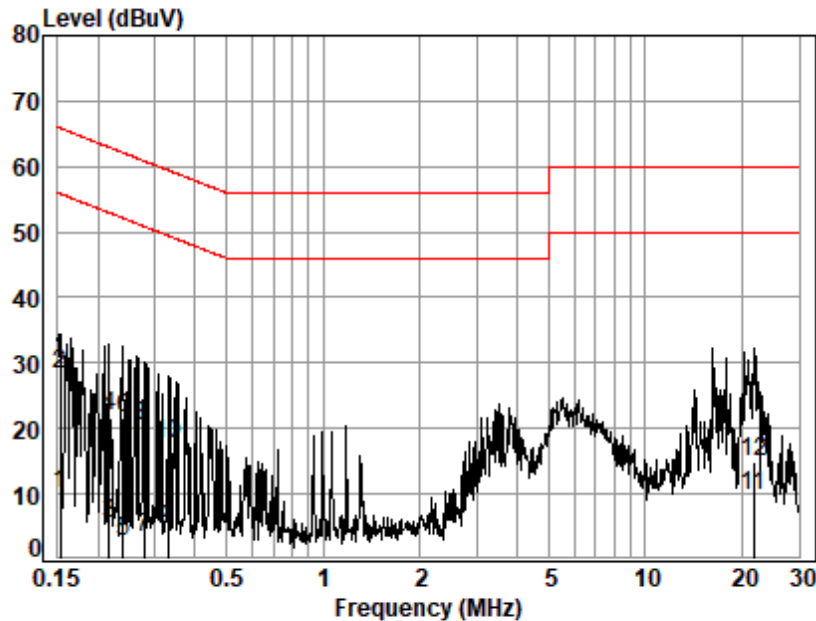
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1598	0.02	0.25	8.68	8.95	55.47	-46.52	Average
2	0.1598	0.02	0.25	24.73	25.00	65.47	-40.47	QP
3	0.2341	0.02	0.26	5.13	5.41	52.30	-46.89	Average
4	0.2341	0.02	0.26	22.20	22.48	62.30	-39.82	QP
5	0.2603	0.03	0.26	4.28	4.57	51.42	-46.85	Average
6	0.2603	0.03	0.26	22.20	22.49	61.42	-38.93	QP
7	0.3116	0.03	0.26	3.16	3.45	49.93	-46.48	Average
8	0.3116	0.03	0.26	20.15	20.44	59.93	-39.49	QP
9	0.3712	0.03	0.27	3.09	3.39	48.47	-45.08	Average
10	0.3712	0.03	0.27	17.47	17.77	58.47	-40.70	QP
11	21.7149	0.07	0.31	7.56	7.94	50.00	-42.06	Average
12	21.7149	0.07	0.31	12.80	13.18	60.00	-46.82	QP



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Test Mode: 00; Line: Neutral Line, CH 5, Mode: BPRF SP0



Site : Shielding Room
Condition: Neutral
Job No. : 00175AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.02	0.31	9.61	9.94	55.82	-45.88	Average
2	0.1532	0.02	0.31	27.96	28.29	65.82	-37.53	QP
3	0.2162	0.02	0.29	5.26	5.57	52.96	-47.39	Average
4	0.2162	0.02	0.29	21.57	21.88	62.96	-41.08	QP
5	0.2391	0.02	0.29	2.35	2.66	52.13	-49.47	Average
6	0.2391	0.02	0.29	21.37	21.68	62.13	-40.45	QP
7	0.2788	0.03	0.28	2.98	3.29	50.85	-47.56	Average
8	0.2788	0.03	0.28	20.03	20.34	60.85	-40.51	QP
9	0.3303	0.03	0.28	4.11	4.42	49.44	-45.02	Average
10	0.3303	0.03	0.28	17.35	17.66	59.44	-41.78	QP
11	21.7149	0.07	0.34	9.26	9.67	50.00	-40.33	Average
12	21.7149	0.07	0.34	14.48	14.89	60.00	-45.11	QP



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8 Radio Spectrum Matter Test Results

8.1 EIRP

Test Requirement 47 CFR Part 15 Section 15.519 (c) (e), 15.521(g)

Test Method: ANSI C63.10: 2013 section 10.3

Measurement Distance: 3m

Limited:

FCC §15.519

(c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dBm
3100-10600	-41.3

(e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M . That limit is 0 dBm EIRP.

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

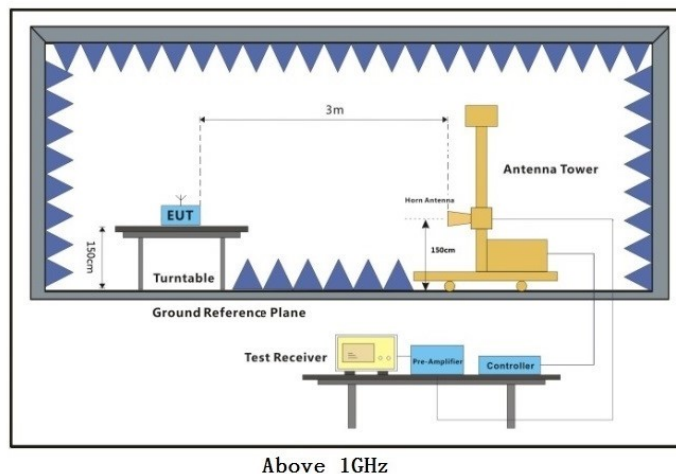
Humidity: 52.2 % RH

Atmospheric Pressure: 1020 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

8.1.3 Test Setup Diagram



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8.1.4 Measurement Procedure and Data

- 1) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak detector with Maximum Hold Mode for Max Peak EIRP measurement and RMS/AV detector for Average EIRP measurement.
- 6) Test the EUT in the lowest channel, the middle channel, the Highest channel
- 7) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- 8) Repeat above procedures until all frequencies measured was complete.

Remark: According to ANSI 63.10 Clause 10.3.9, the EIRP to field strength at a specified measurement distance of 3 m is below:

$$E \text{ (dBuV/m)} = \text{EIRP (dBm)} + 95.3$$

For peak power test, the spectrum analyzer was set to RBW=10MHz, VBW=10MHz, and add a conversion factor of $20 \cdot \log(50\text{MHz}/10\text{MHz}) = 13.98$



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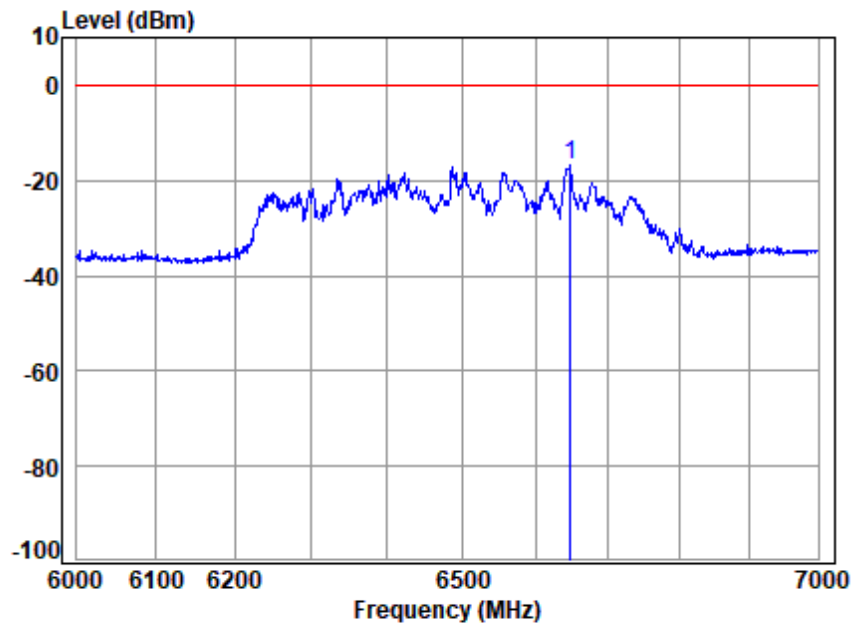
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Peak Power								
Channel	Config	PRF Mode	Level (dBm) @ RBW=10MHz	Factor	Level (dBm) @ RBW=50MHz	Limit (dBm)	Margin	Polarization
5	SP0	BPRF	-16.95	13.98	-2.97	0	2.97	Horizontal
			-16.58	13.98	-2.60	0	2.60	Vertical
	SP1		-18.9	13.98	-4.92	0	4.92	Horizontal
			-21.23	13.98	-7.25	0	7.25	Vertical
	SP3		-18.68	13.98	-4.70	0	4.70	Horizontal
			-22.2	13.98	-8.22	0	8.22	Vertical
	SP0	HPRF 125M	-21.74	13.98	-7.76	0	7.76	Horizontal
			-22.71	13.98	-8.73	0	8.73	Vertical
	SP1		-19.96	13.98	-5.98	0	5.98	Horizontal
			-22.08	13.98	-8.10	0	8.10	Vertical
	SP3		-17.44	13.98	-3.46	0	3.46	Horizontal
			-22.59	13.98	-8.61	0	8.61	Vertical
	SP0	HPRF 250M	-14.71	13.98	-0.73	0	0.73	Horizontal
			-16.62	13.98	-2.64	0	2.64	Vertical
	SP1		-16.85	13.98	-2.87	0	2.87	Horizontal
			-20.02	13.98	-6.04	0	6.04	Vertical
9	SP0	BPRF	-14.9	13.98	-0.92	0	0.92	Horizontal
			-19.58	13.98	-5.60	0	5.60	Vertical
	SP1		-17.36	13.98	-3.38	0	3.38	Horizontal
			-15.6	13.98	-1.62	0	1.62	Vertical
	SP3		-17.6	13.98	-3.62	0	3.62	Horizontal
			-15.8	13.98	-1.82	0	1.82	Vertical
	SP0	HPRF 125M	-17.25	13.98	-3.27	0	3.27	Horizontal
			-19.17	13.98	-5.19	0	5.19	Vertical
	SP1		-16.99	13.98	-3.01	0	3.01	Horizontal
			-18.03	13.98	-4.05	0	4.05	Vertical
	SP3		-18.11	13.98	-4.13	0	4.13	Horizontal
			-14.42	13.98	-0.44	0	0.44	Vertical
	SP0	HPRF 250M	-15.51	13.98	-1.53	0	1.53	Horizontal
			-14.54	13.98	-0.56	0	0.56	Vertical
	SP1		-16.3	13.98	-2.32	0	2.32	Horizontal
			-16.24	13.98	-2.26	0	2.26	Vertical



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH5

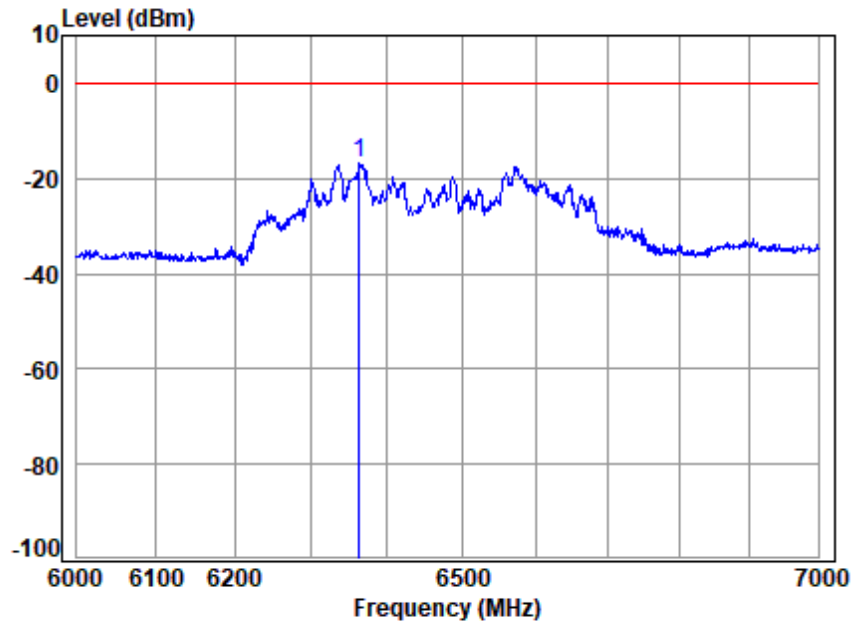
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6647.69	-16.95	0.00	-16.95



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

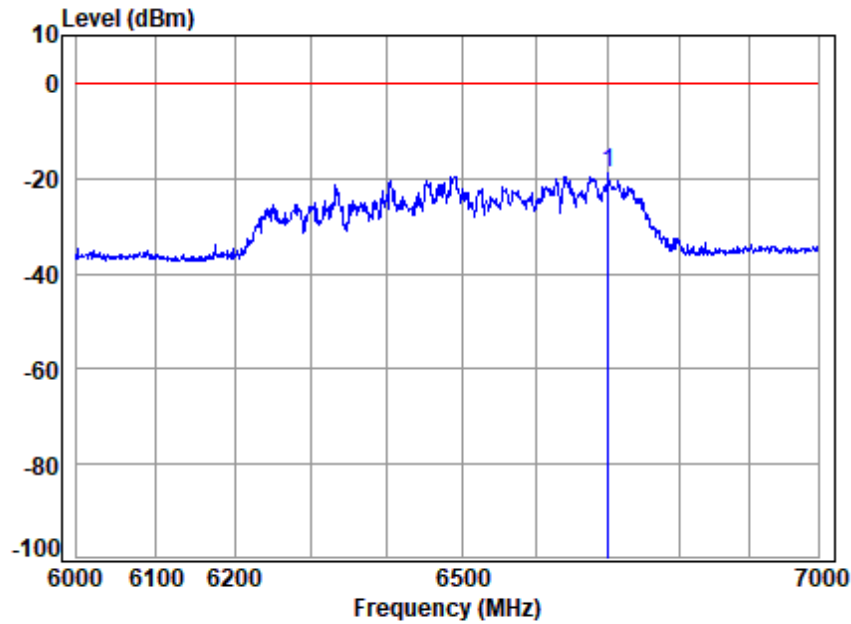
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6362.94	-16.58	0.00	-16.58



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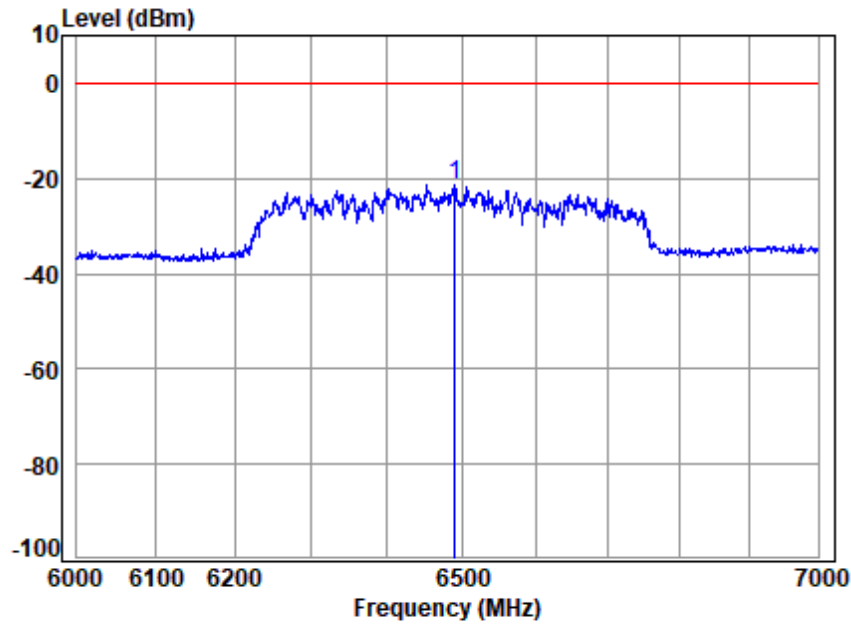
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: BPRF SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6700.16	-18.90	0.00	-18.90



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: BPRF SP1

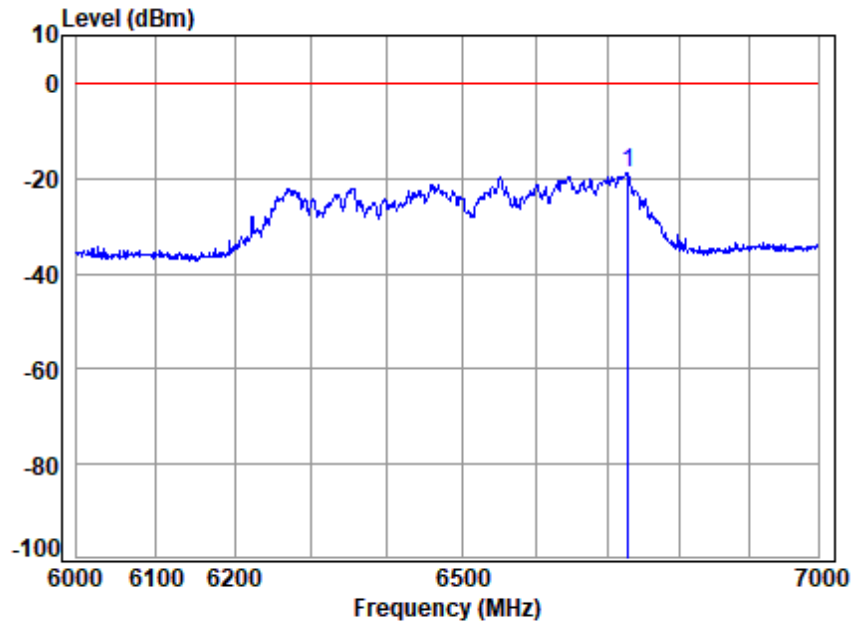
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6489.74	-21.23	0.00	-21.23



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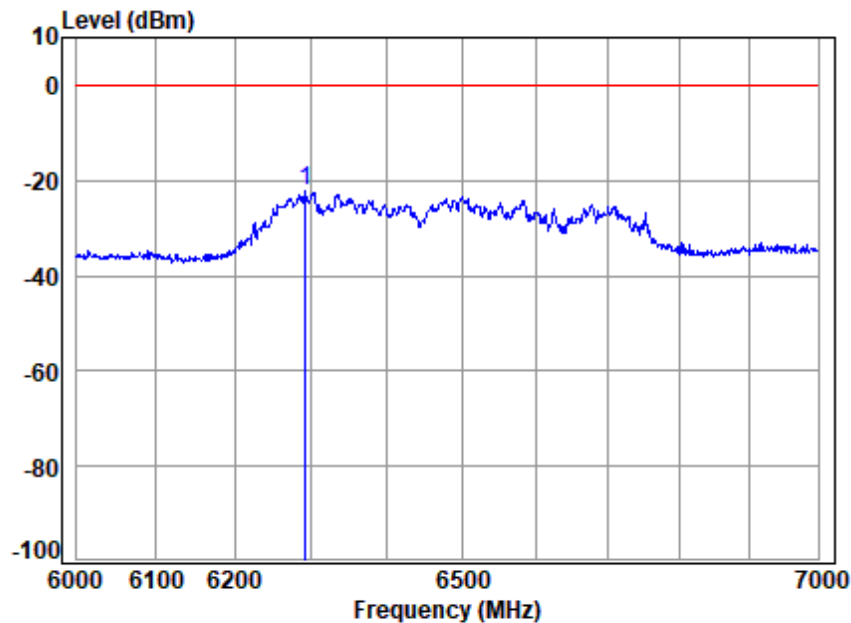
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: BPRF SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6727.07	-18.68	0.00	-18.68



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: BPRF SP3

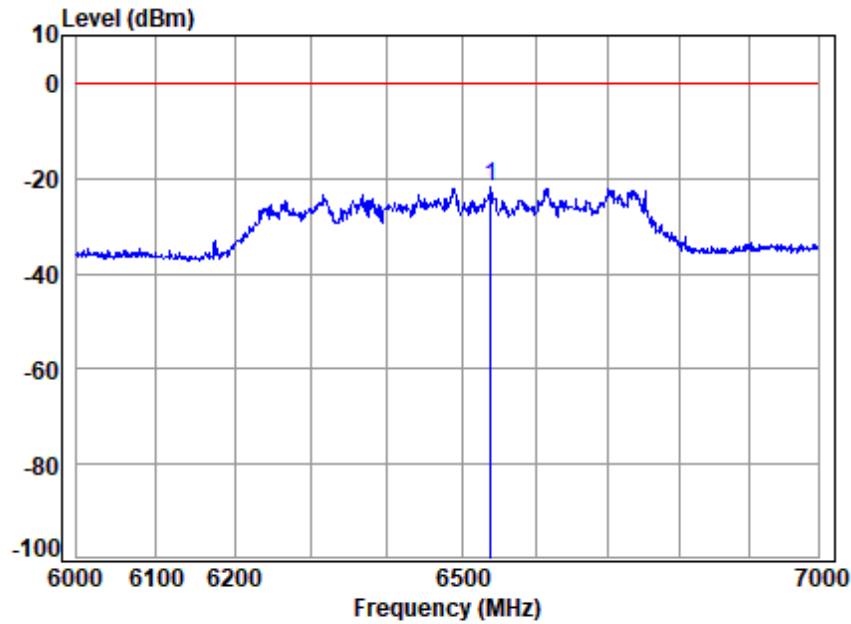
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6291.74	-22.20	0.00	-22.20



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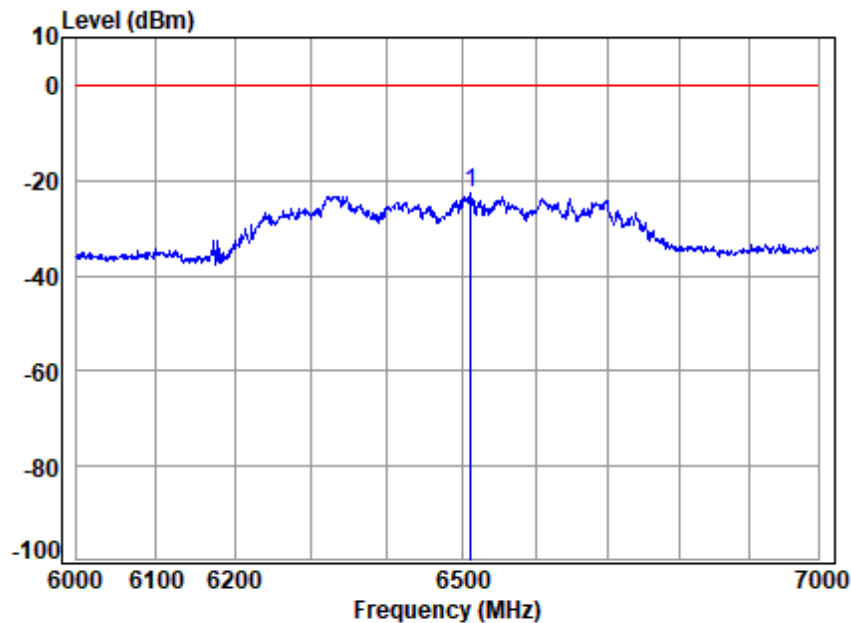
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6539.95	-21.74	0.00	-21.74



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

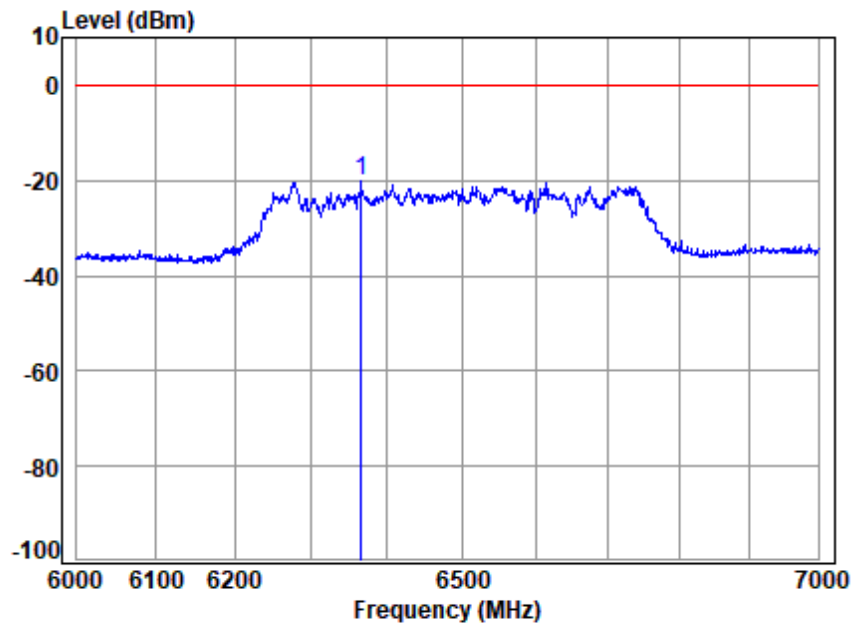
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6511.78	-22.71	0.00	-22.71



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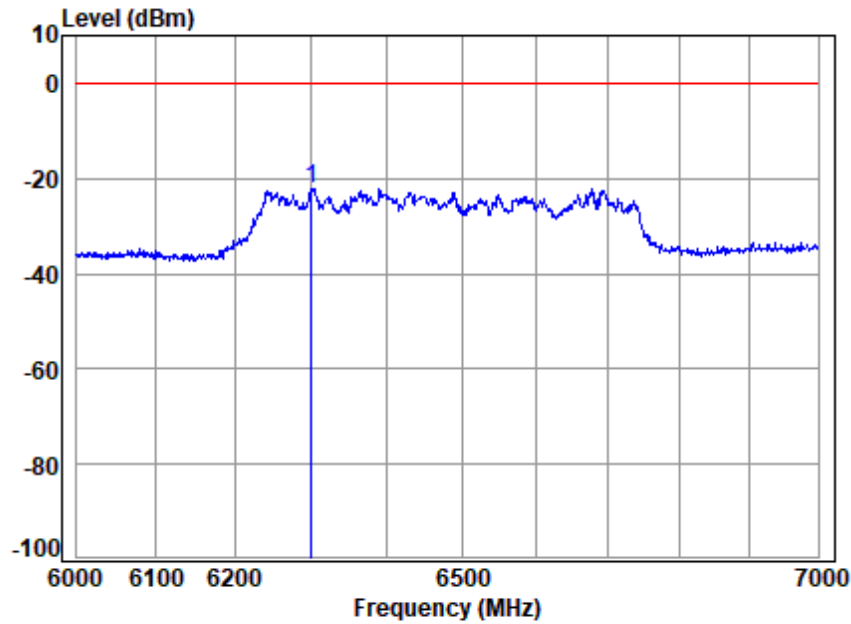


Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 125M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6364.90	-19.96	0.00	-19.96



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: HPRF 125M SP1

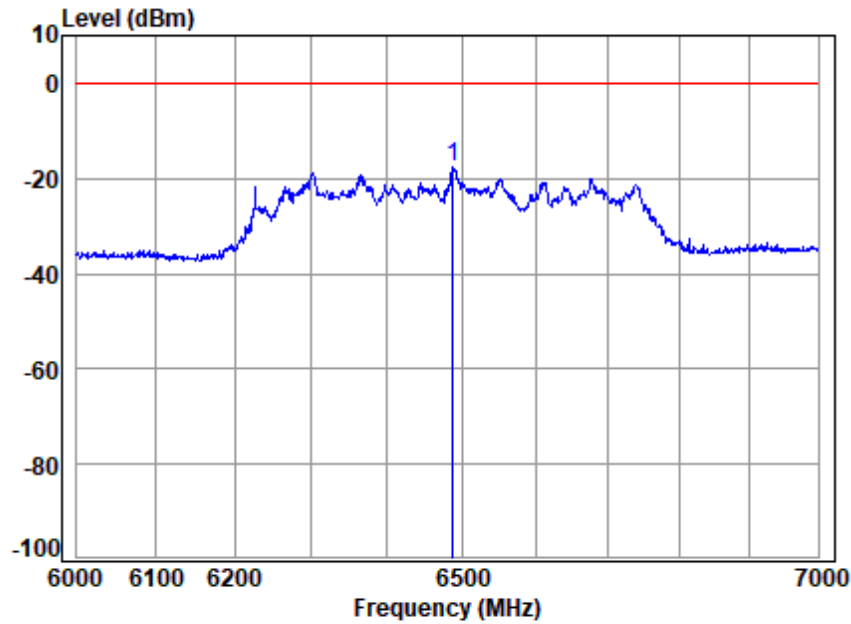
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6299.51	-22.08	0.00	-22.08



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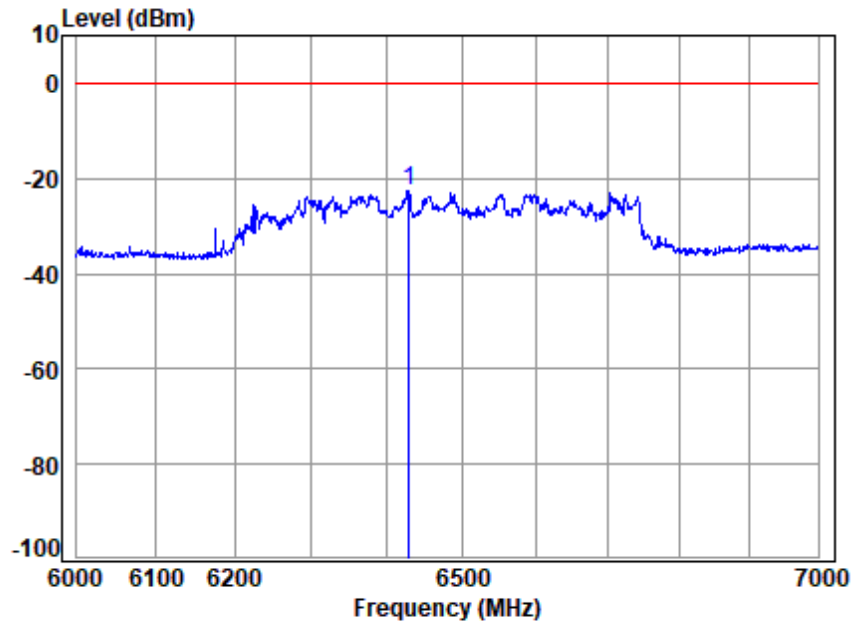
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 125M SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6488.74	-17.44	0.00	-17.44



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: HPRF 125M SP3

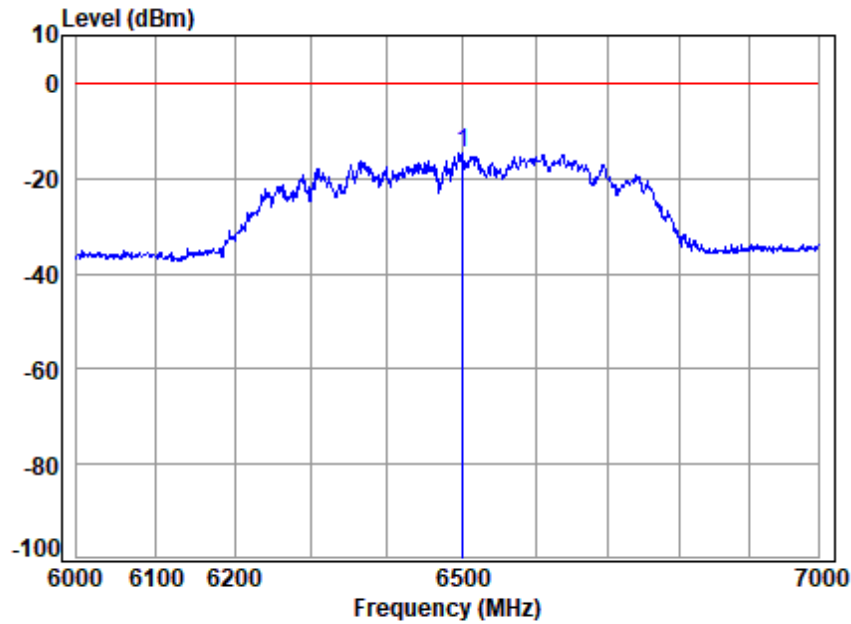
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6428.01	-22.59	0.00	-22.59



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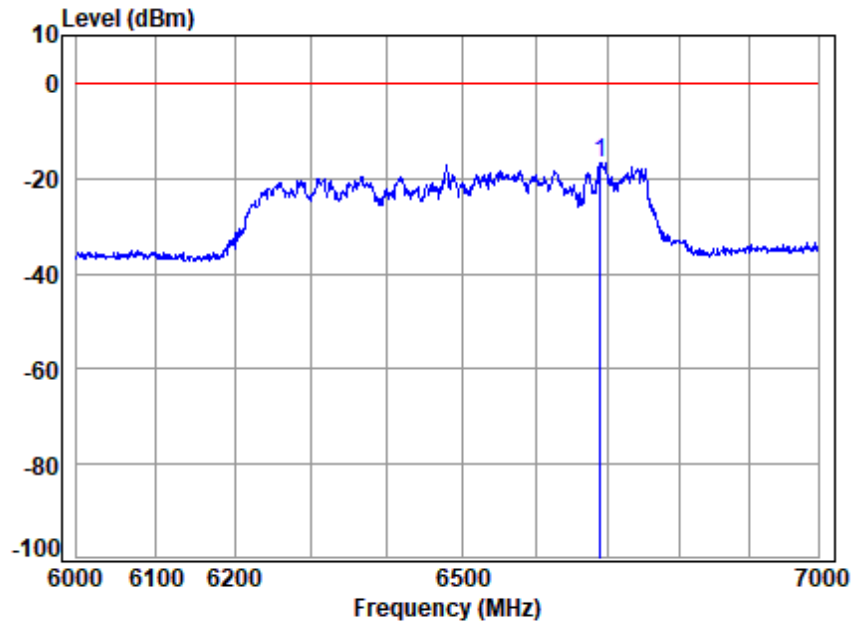
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 250M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6499.75	-14.71	0.00	-14.71



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: HPRF 250M SP0

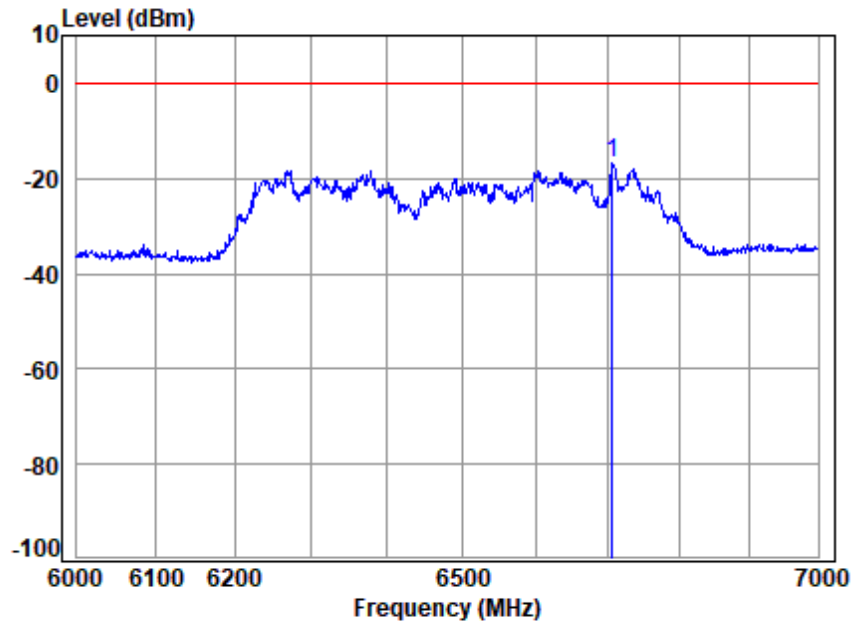
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6688.81	-16.62	0.00	-16.62



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH5

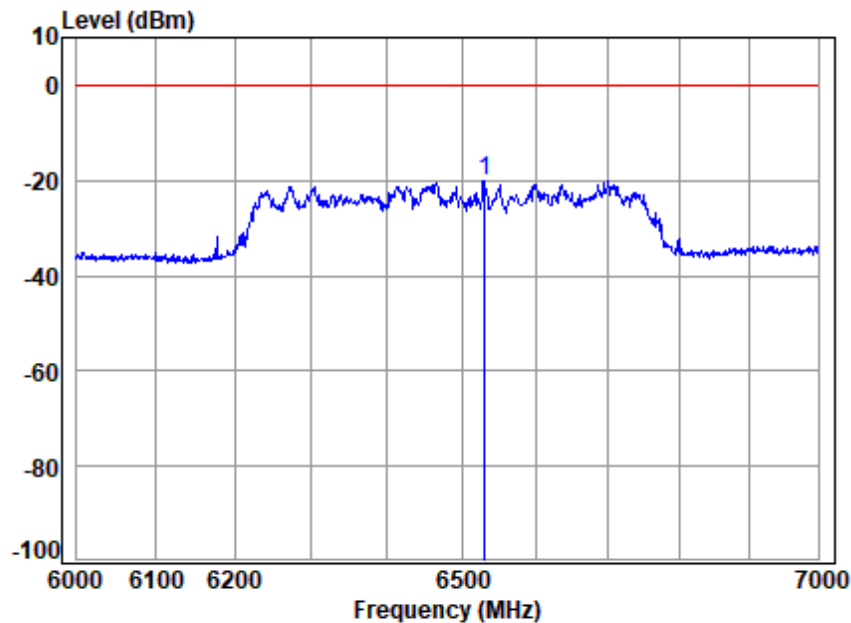
: HPRF 250M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6707.39	-16.85	0.00	-16.85



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

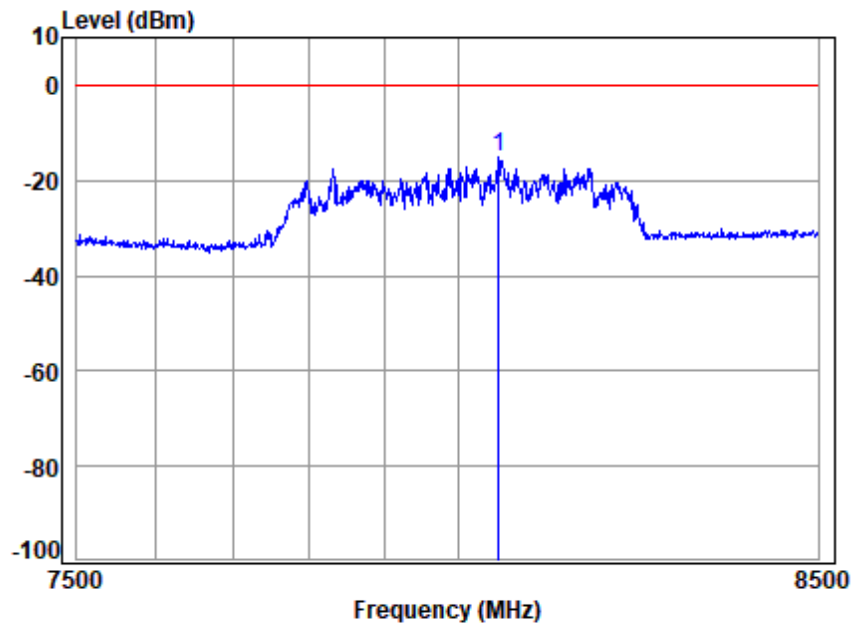
: HPRF 250M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6530.88	-20.02	0.00	-20.02



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: BPRF SP0

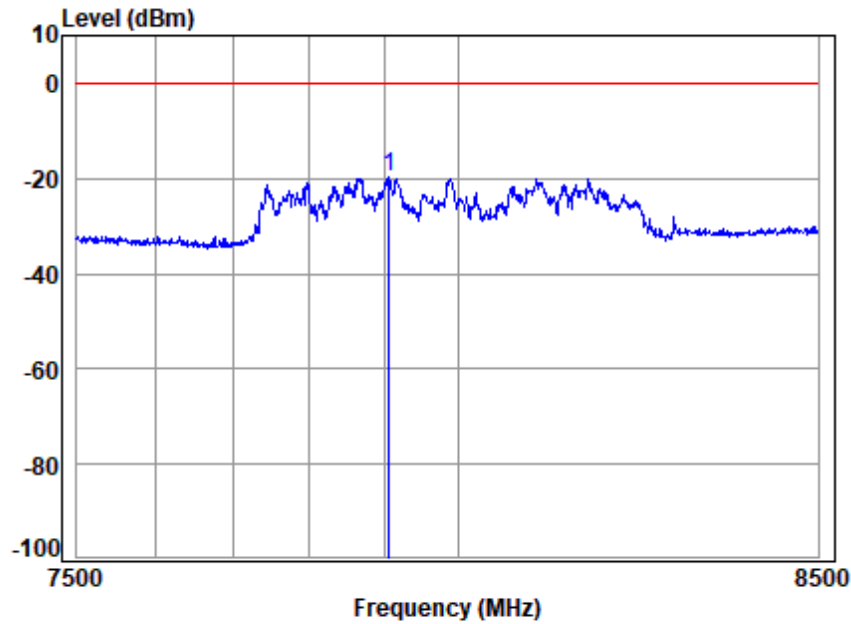
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8053.61	-14.90	0.00	-14.90



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

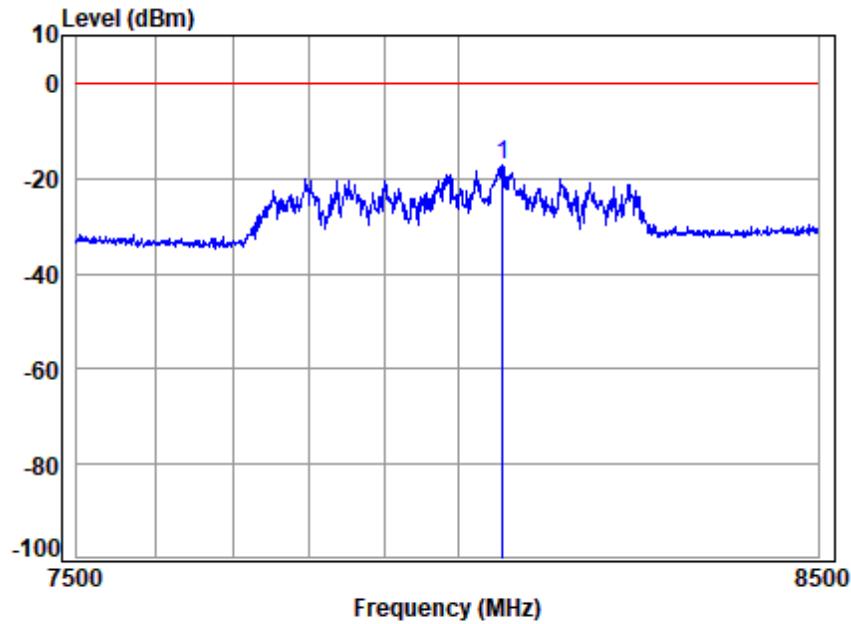
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	7904.81	-19.58	0.00	-19.58



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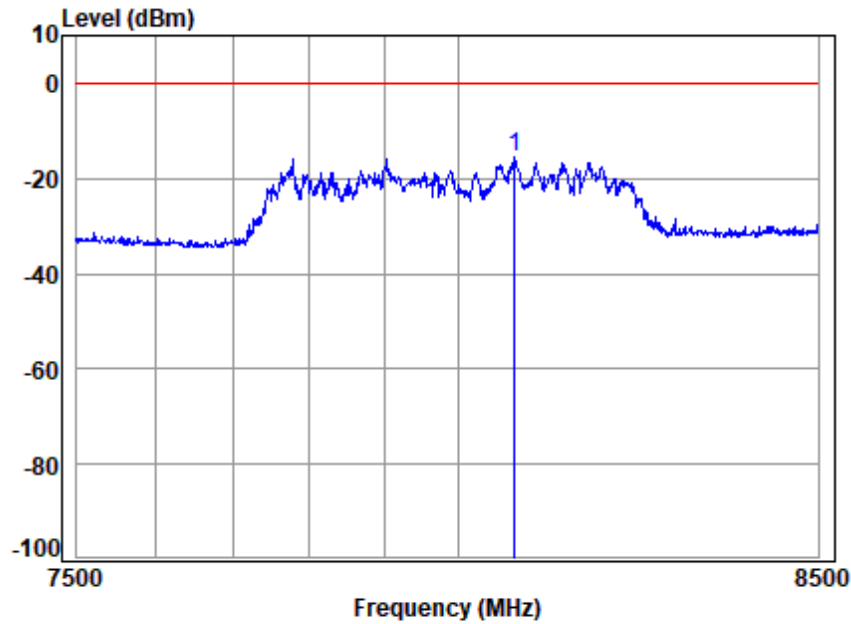
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: BPRF SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8057.65	-17.36	0.00	-17.36



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

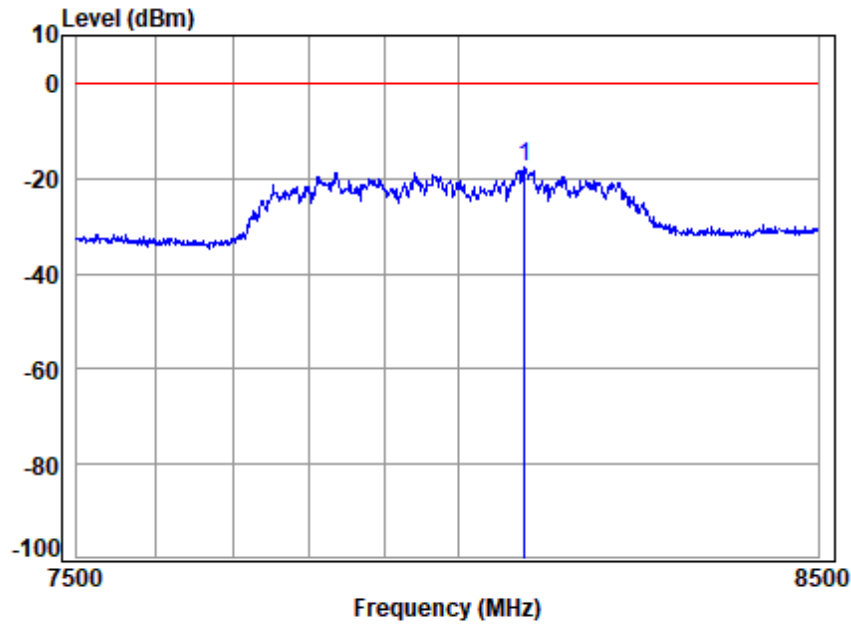
: BPRF SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8073.80	-15.69	0.00	-15.69



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: BPRF SP3

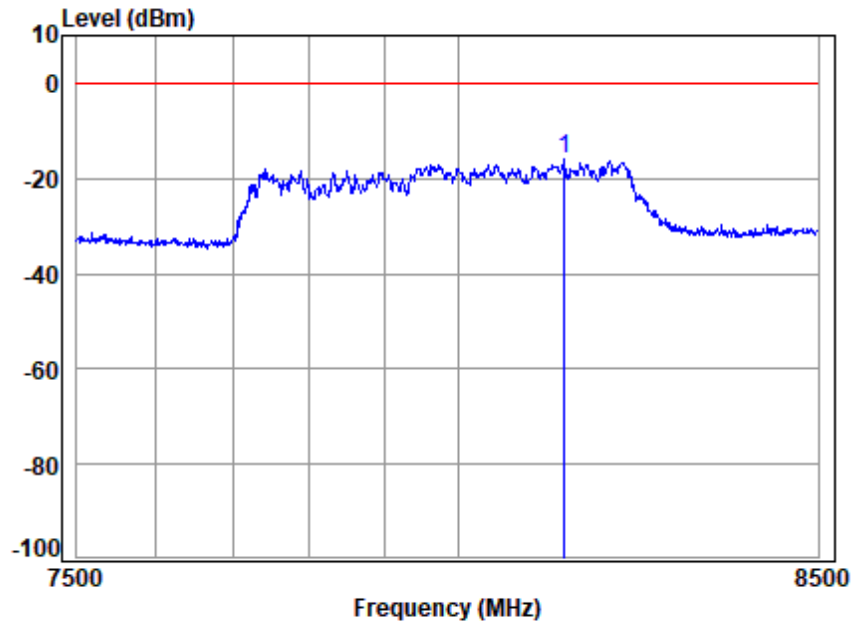
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8088.97	-17.60	0.00	-17.60



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

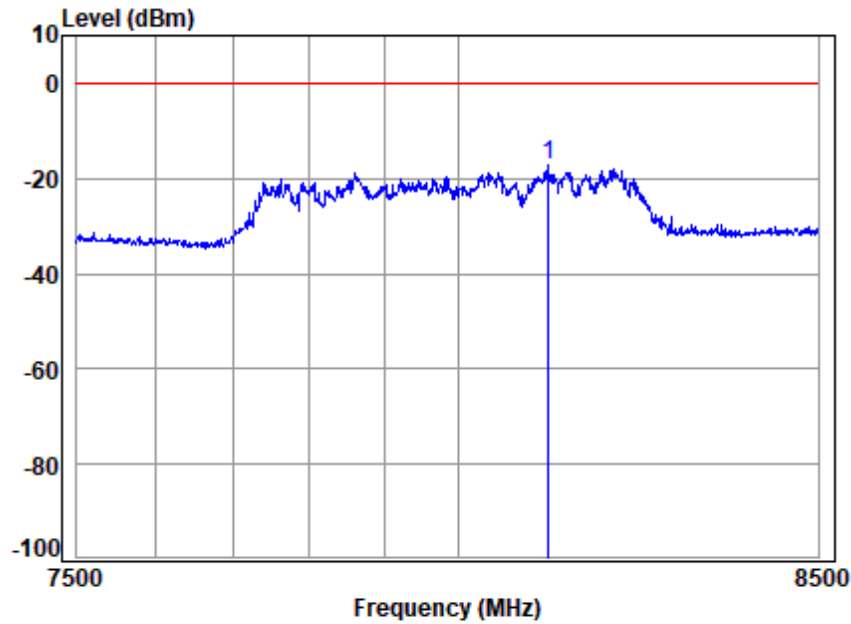
: BPRF SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8142.81	-15.80	0.00	-15.80



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Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: HPRF 125M SP0

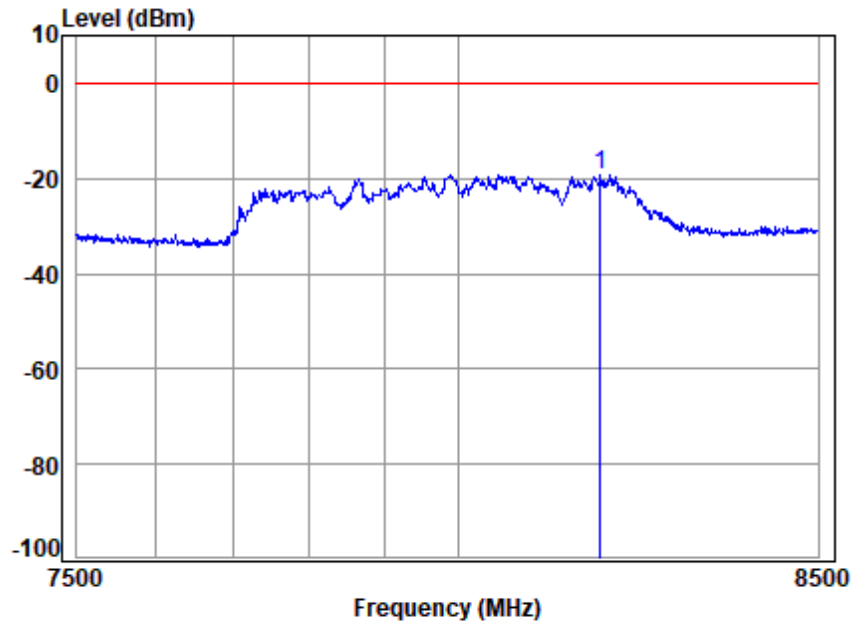
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8120.42	-17.25	0.00	-17.25



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

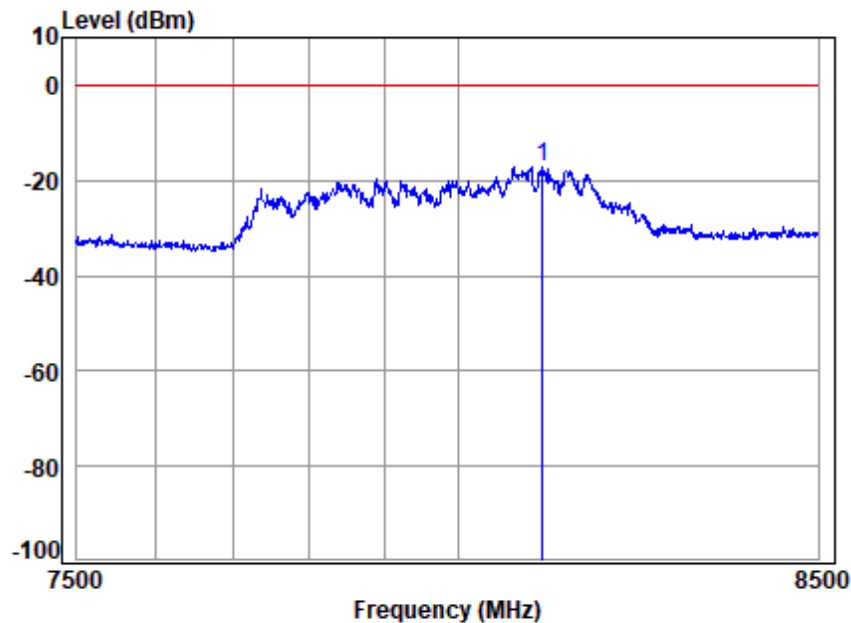
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8192.90	-19.17	0.00	-19.17



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Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: HPRF 125M SP1

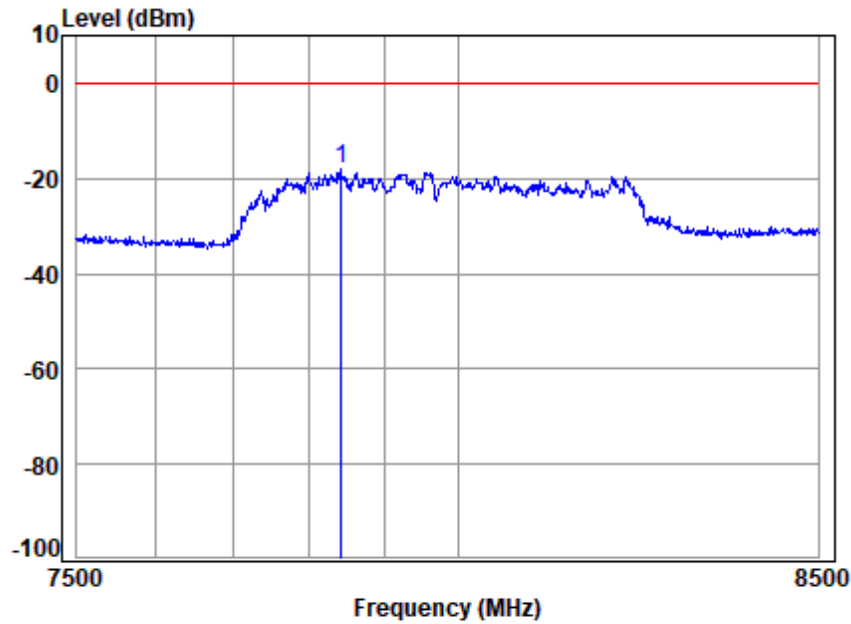
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8113.31	-16.99	0.00	-16.99



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

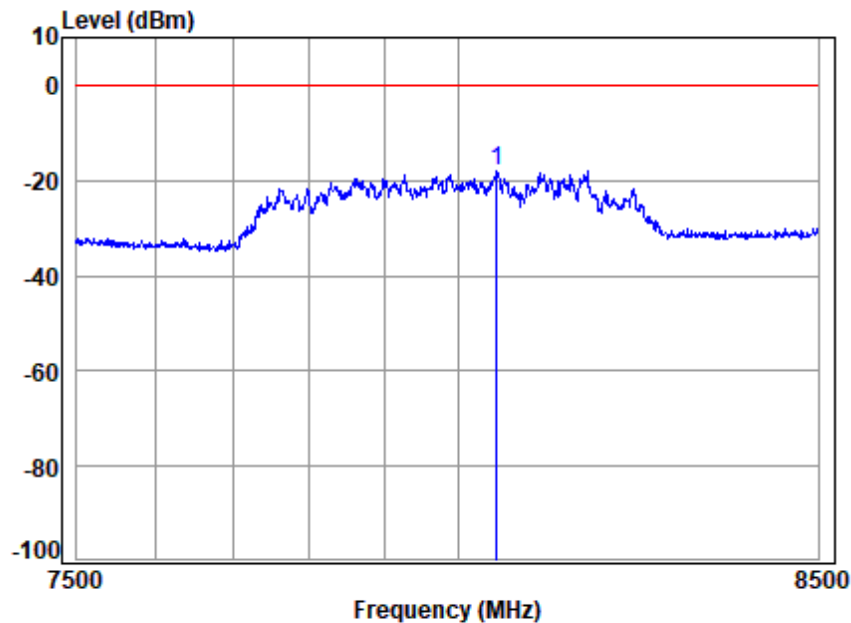
: HPRF 125M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	7841.74	-18.03	0.00	-18.03



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 125M SP3

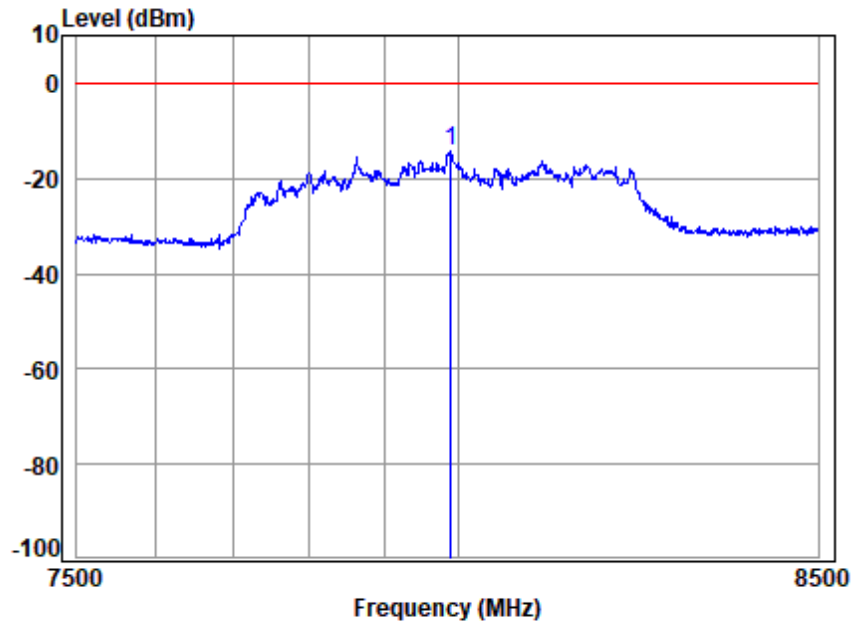
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8050.59	-18.11	0.00	-18.11



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

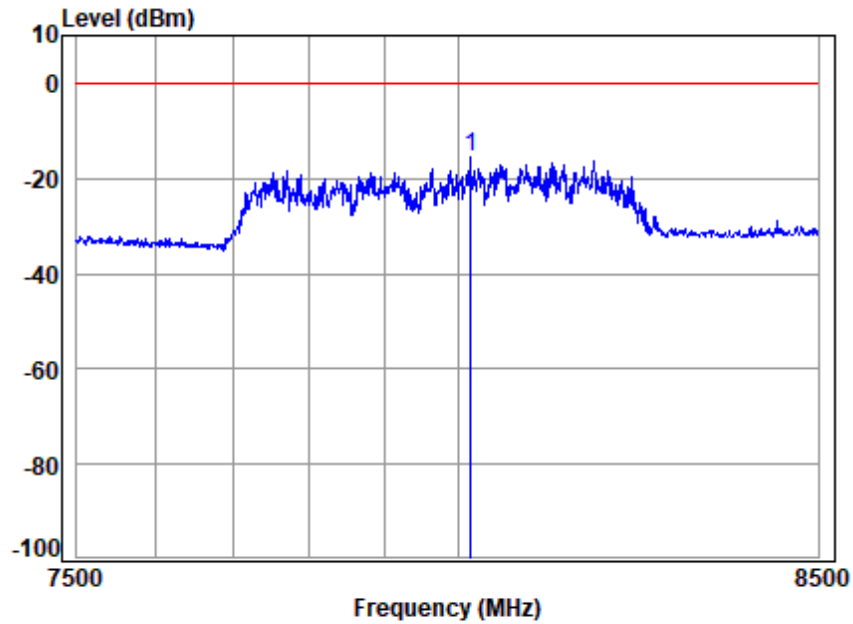
: HPRF 125M SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	7989.36	-14.42	0.00	-14.42



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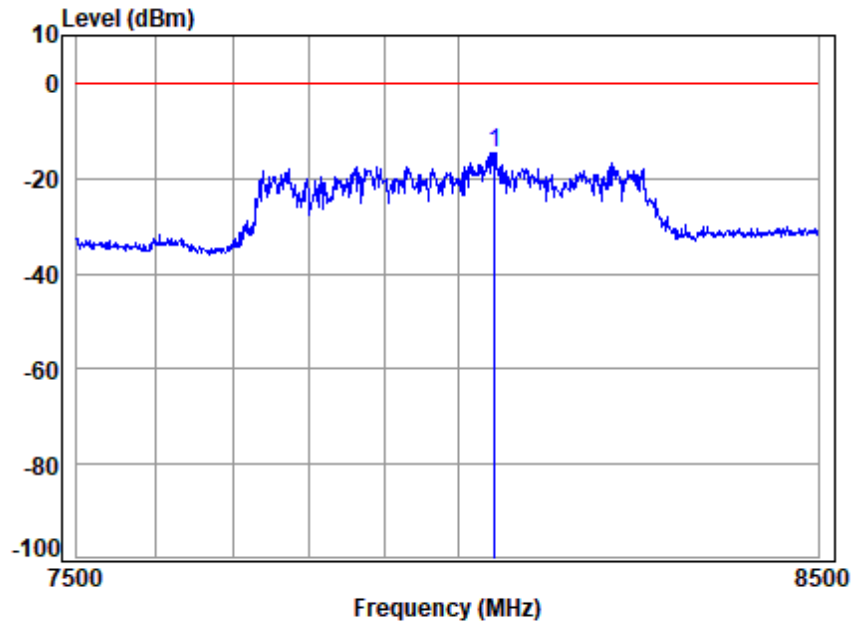
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: HPRF 250M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8014.40	-15.51	0.00	-15.51



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 250M SP0

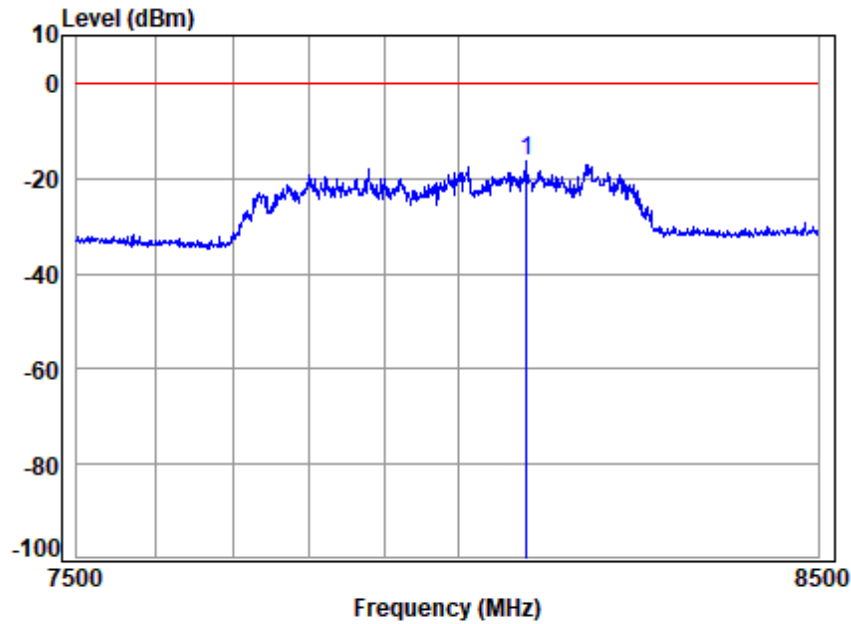
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8046.56	-14.54	0.00	-14.54



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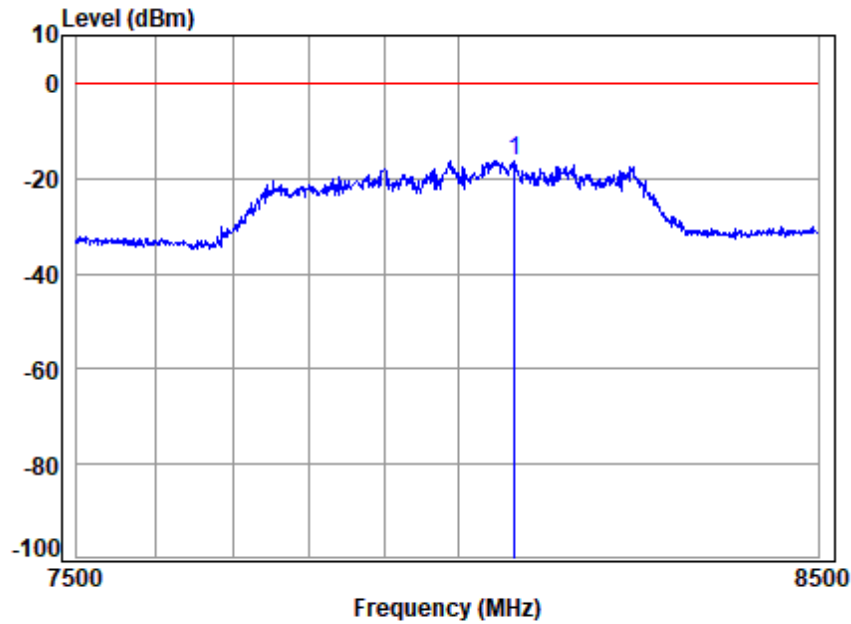
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: HPRF 250M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8089.98	-16.30	0.00	-16.30



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 250M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8073.80	-16.24	0.00	-16.24



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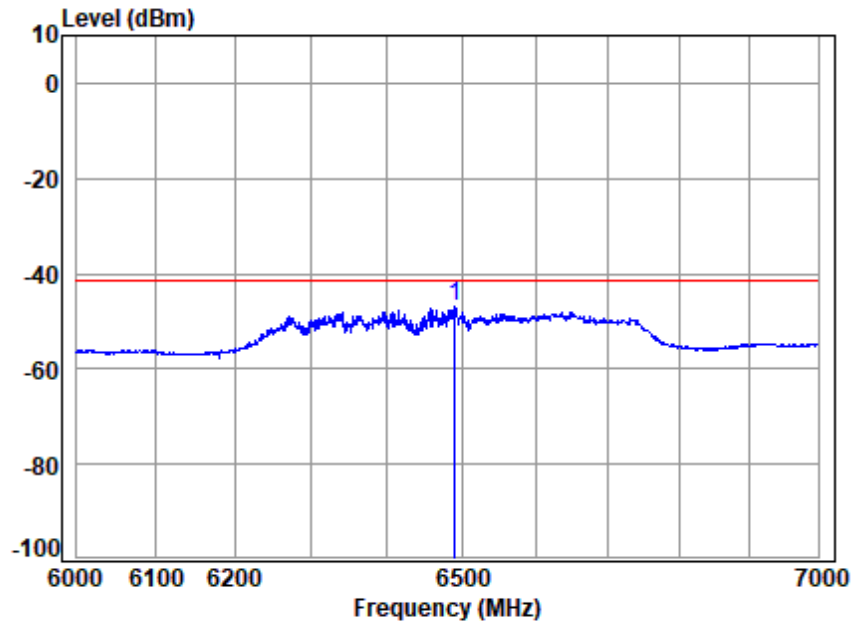
8.1.5 Average Power

Average Power						
Channel	Config	PRF Mode	Level (dBm) @ RBW=10MHz	Limit (dBm)	Margin	Polarization
5	SP0	BPRF	-46.82	-41.3	5.52	Horizontal
			-49.08	-41.3	7.78	Vertical
	SP1		-46.32	-41.3	5.02	Horizontal
			-47.22	-41.3	5.92	Vertical
	SP3		-44.17	-41.3	2.87	Horizontal
			-44.6	-41.3	3.3	Vertical
	SP0	HPRF 125M	-44.19	-41.3	2.89	Horizontal
			-45.77	-41.3	4.47	Vertical
	SP1		-43.09	-41.3	1.79	Horizontal
			-43.94	-41.3	2.64	Vertical
	SP3		-42.9	-41.3	1.6	Horizontal
			-42.18	-41.3	0.88	Vertical
	SP0	HPRF 250M	-44.47	-41.3	3.17	Horizontal
			-45.33	-41.3	4.03	Vertical
SP1	-43.68		-41.3	2.38	Horizontal	
	-44.28		-41.3	2.98	Vertical	
9	SP0	BPRF	-47.91	-41.3	6.61	Horizontal
			-45.44	-41.3	4.14	Vertical
	SP1		-46.23	-41.3	4.93	Horizontal
			-43.91	-41.3	2.61	Vertical
	SP3		-46.84	-41.3	5.54	Horizontal
			-42.26	-41.3	0.96	Vertical
	SP0	HPRF 125M	-44.31	-41.3	3.01	Horizontal
			-43.02	-41.3	1.72	Vertical
	SP1		-45.78	-41.3	4.48	Horizontal
			-42.79	-41.3	1.49	Vertical
	SP3		-45.6	-41.3	4.3	Horizontal
			-42.74	-41.3	1.44	Vertical
	SP0	HPRF 250M	-44.47	-41.3	3.17	Horizontal
			-43.14	-41.3	1.84	Vertical
SP1	-44.77		-41.3	3.47	Horizontal	
	-42.47		-41.3	1.17	Vertical	



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH5

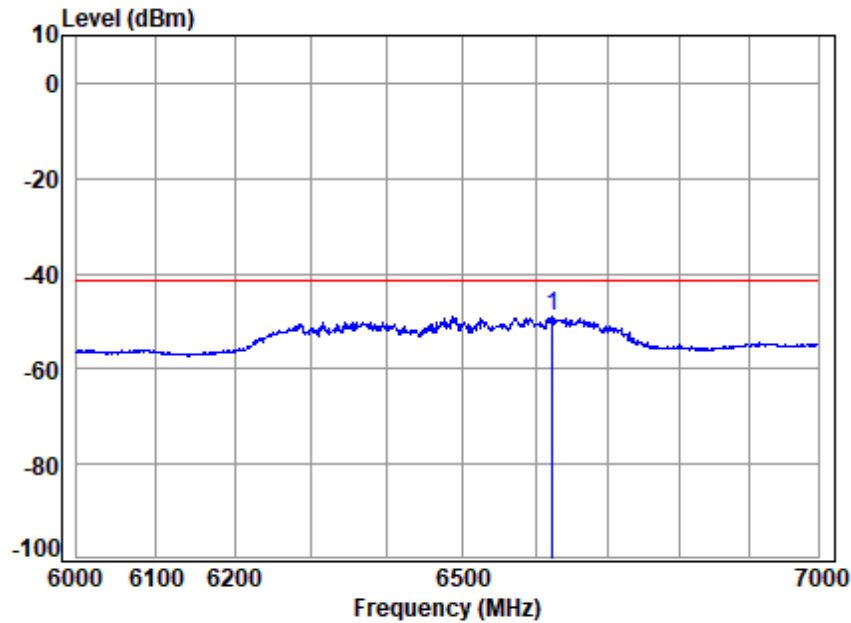
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6489.74	-46.82	-41.30	-5.52



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

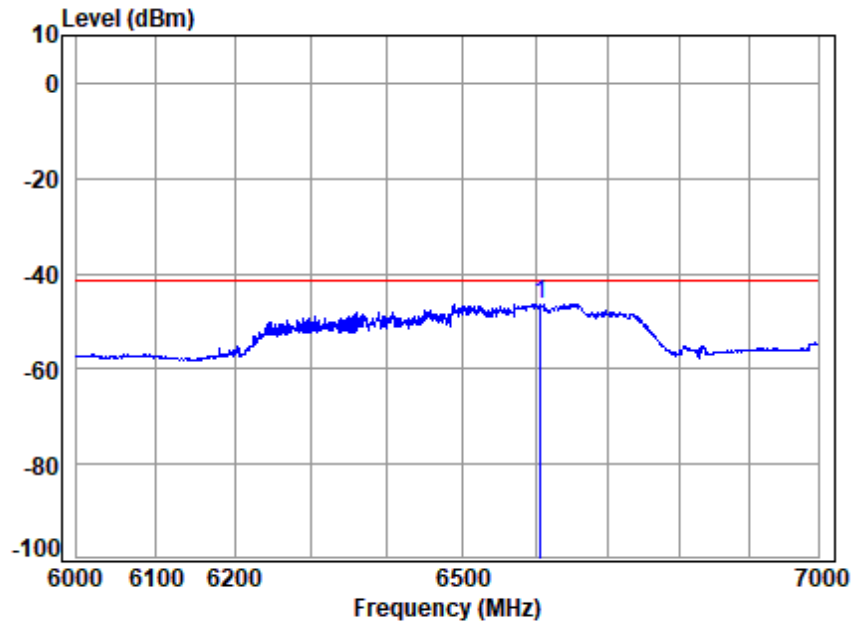
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6622.12	-49.08	-41.30	-7.78



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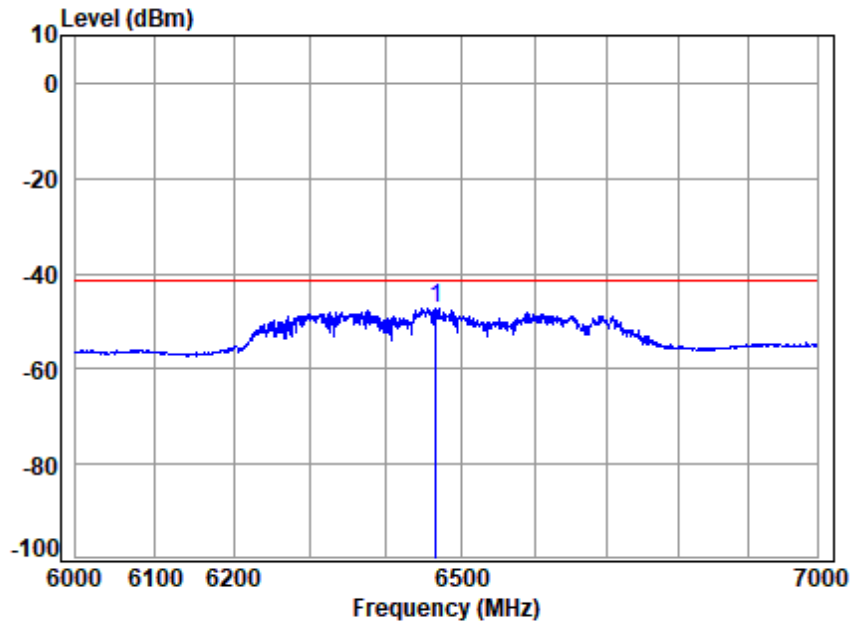
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: BPRF SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6606.83	-46.32	-41.30	-5.02



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: BPRF SP1

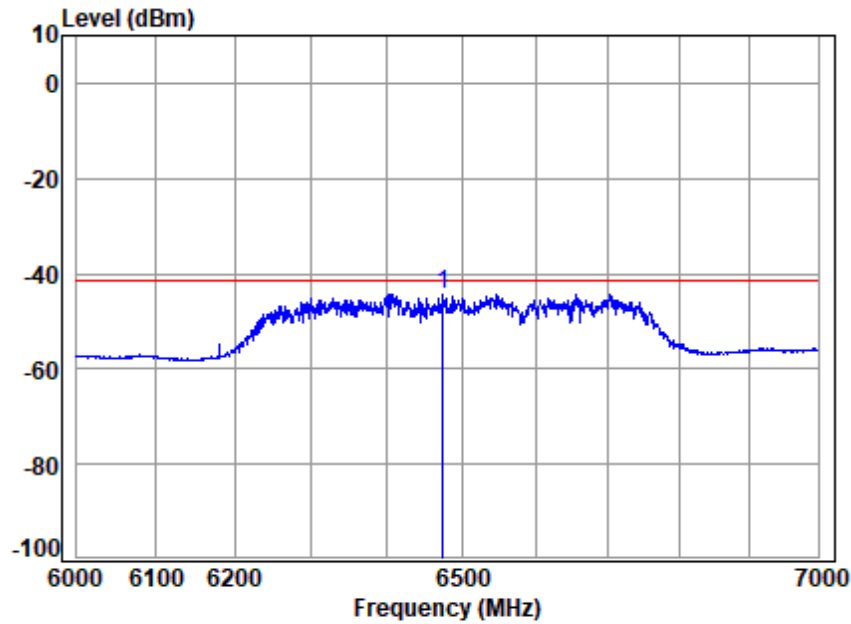
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6464.78	-47.22	-41.30	-5.92



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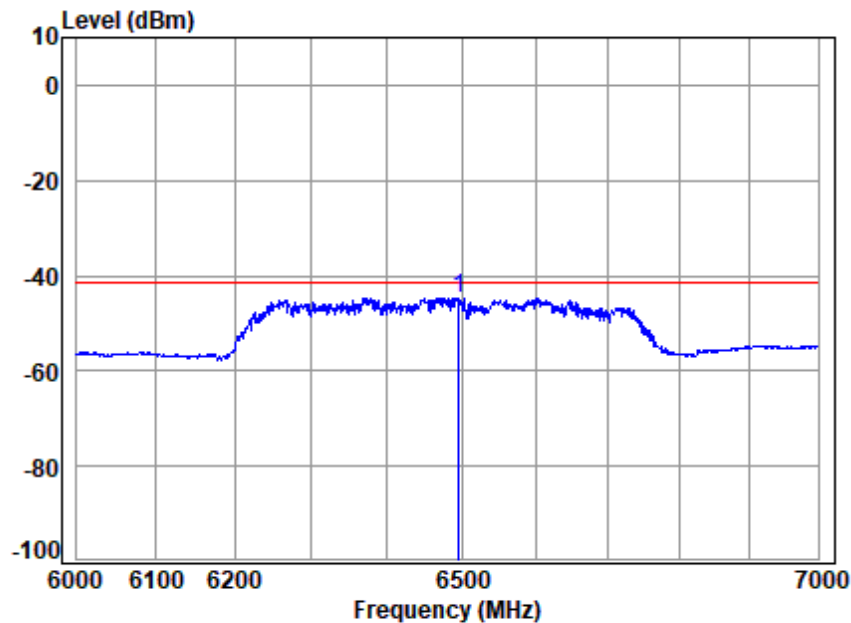
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: BPRF SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6474.75	-44.17	-41.30	-2.87



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

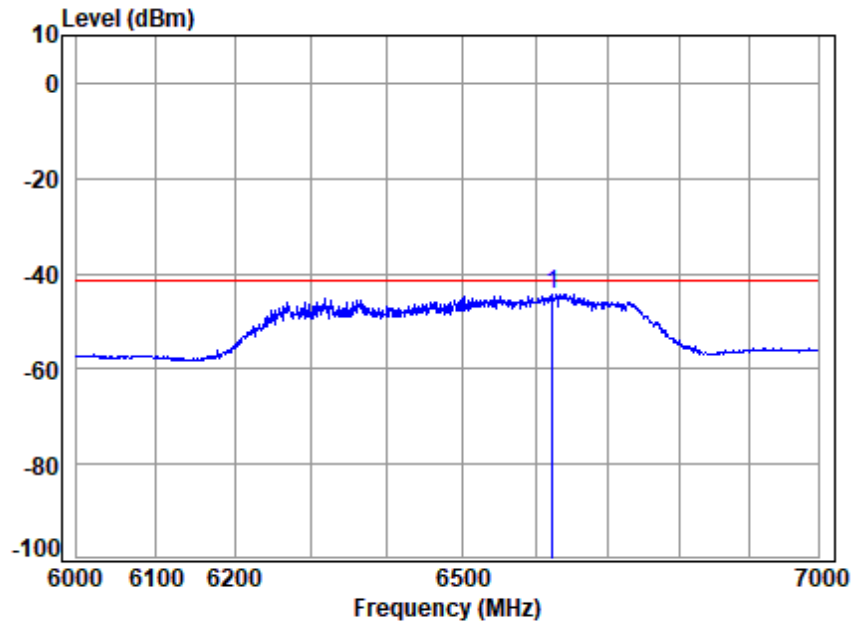
Test mode: CH5

: BPRF SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6496.75	-44.60	-41.30	-3.30



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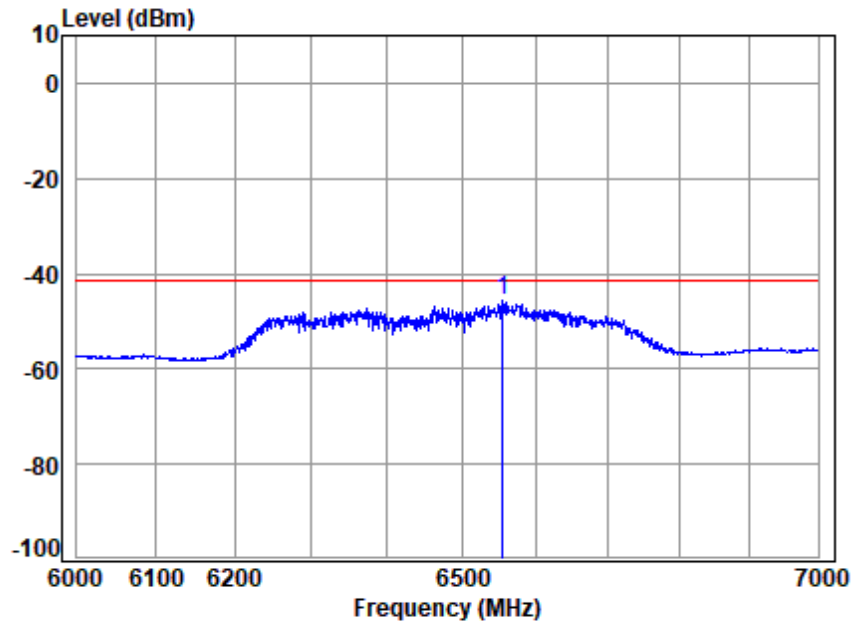
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6624.16	-44.19	-41.30	-2.89



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

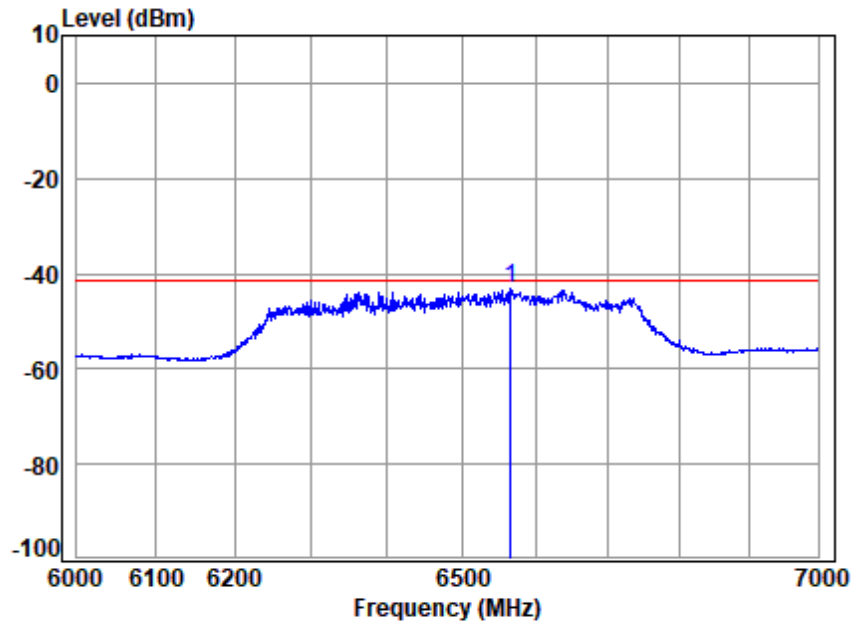
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6554.08	-45.77	-41.30	-4.47



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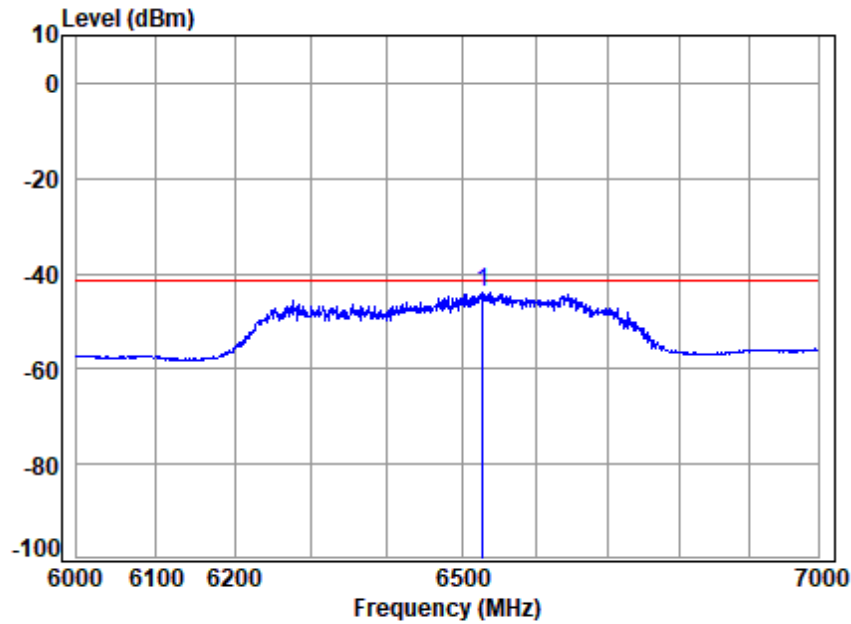
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 125M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6565.20	-43.09	-41.30	-1.79



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: HPRF 125M SP1

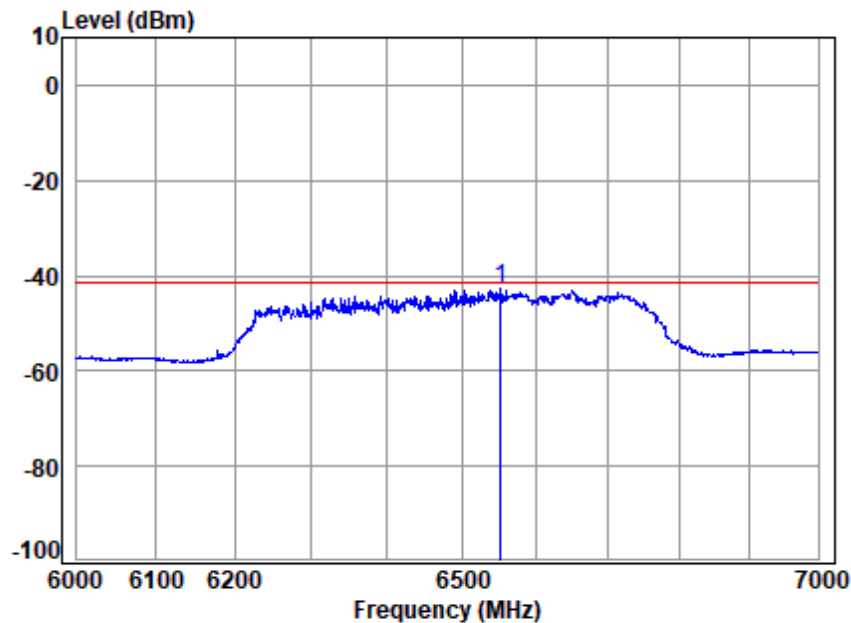
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6526.86	-43.94	-41.30	-2.64



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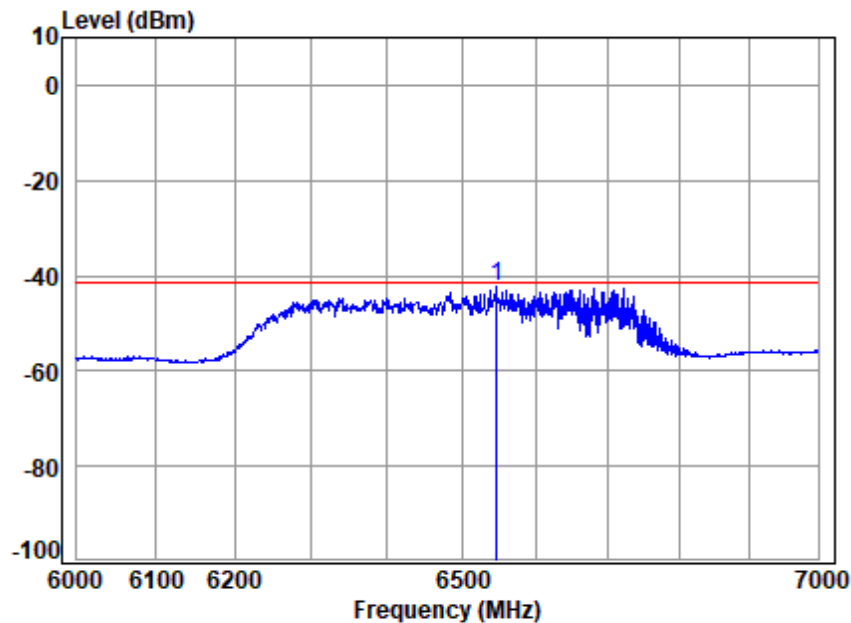
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 125M SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6551.05	-42.90	-41.30	-1.60



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

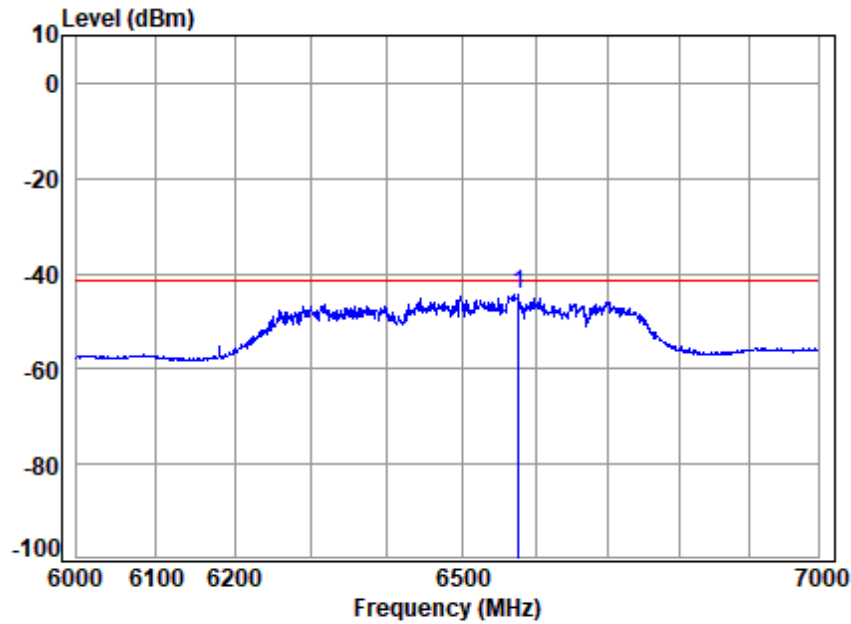
: HPRF 125M SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6546.00	-42.18	-41.30	-0.88



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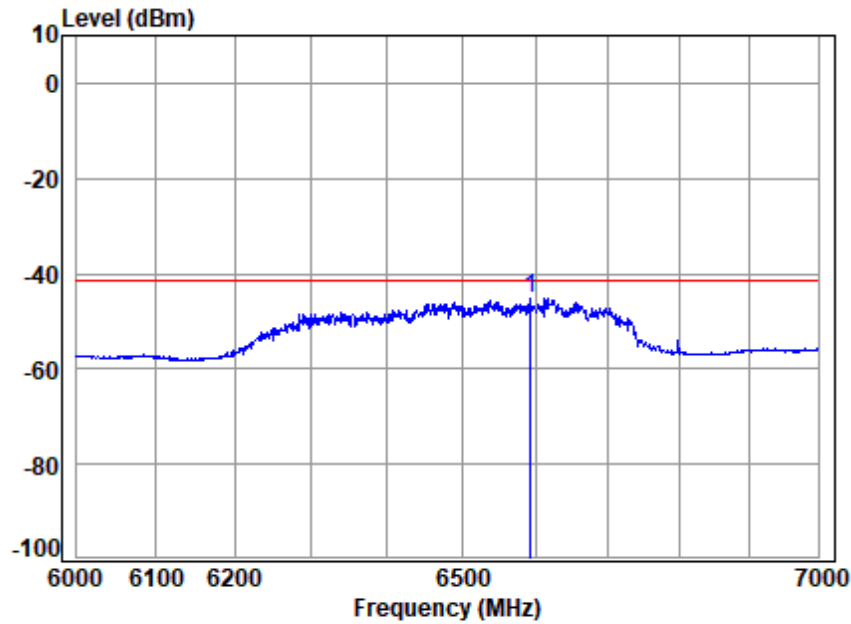
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 250M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6577.36	-44.47	-41.30	-3.17



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

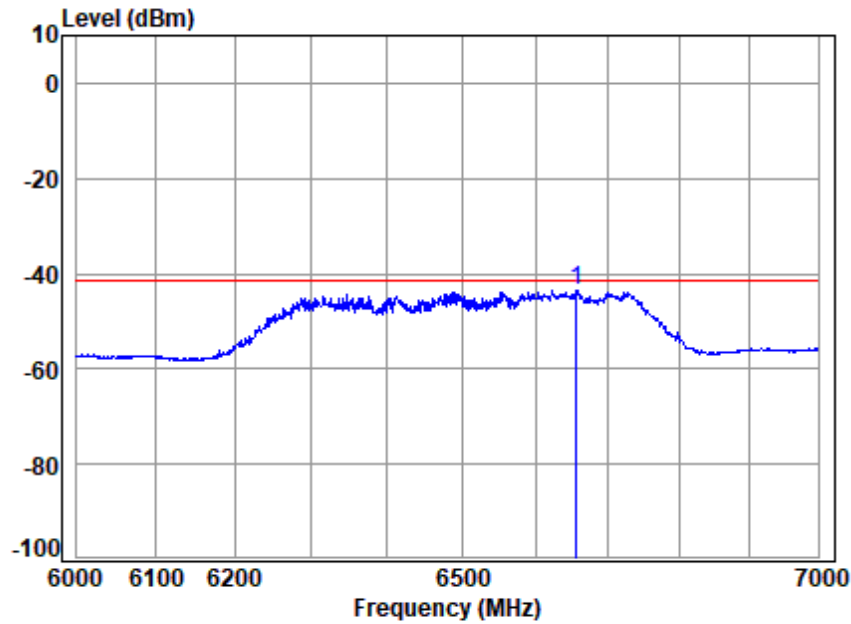
: HPRF 250M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6593.60	-45.33	-41.30	-4.03



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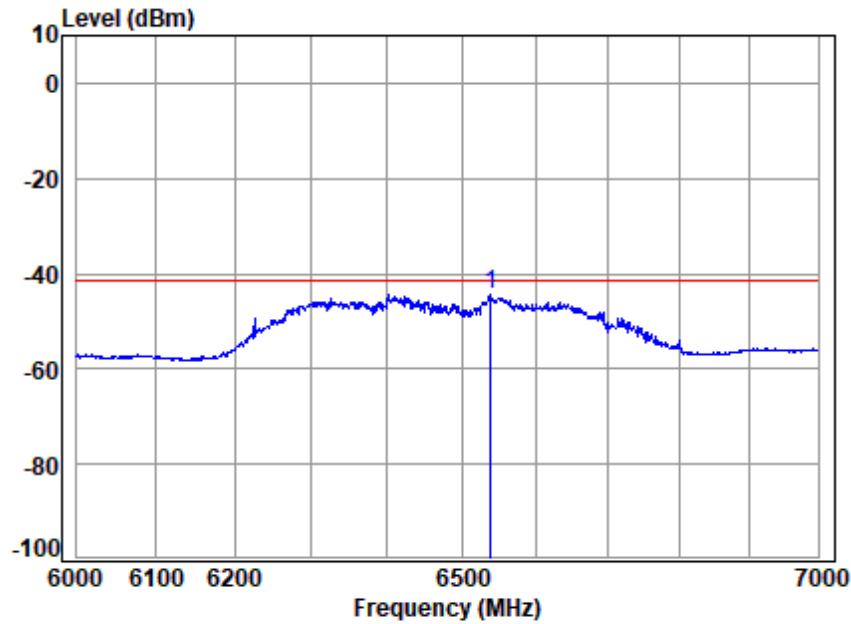
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH5
: HPRF 250M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6655.90	-43.68	-41.30	-2.38



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH5

: HPRF 250M SP1

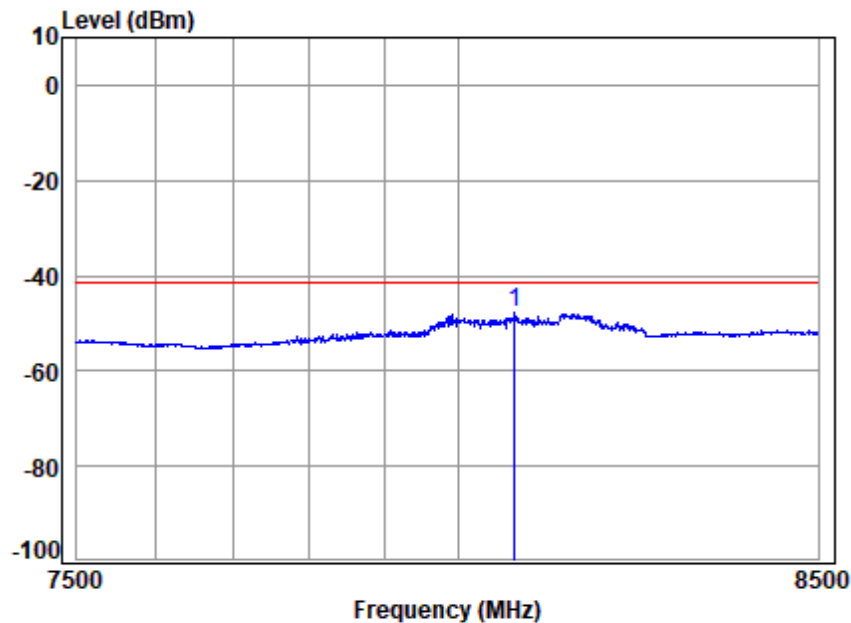
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	6537.94	-44.28	-41.30	-2.98



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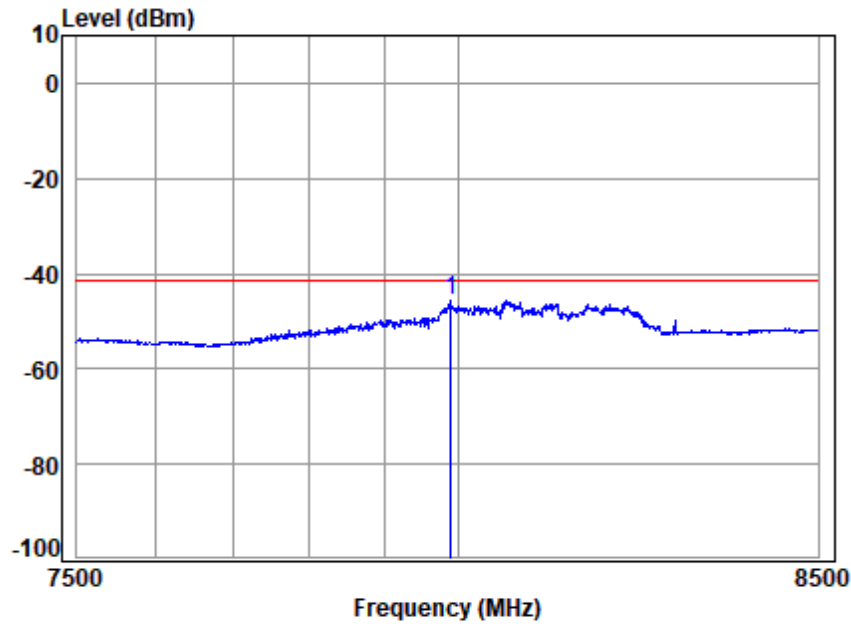
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8075.82	-47.91	-41.30	-6.61



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

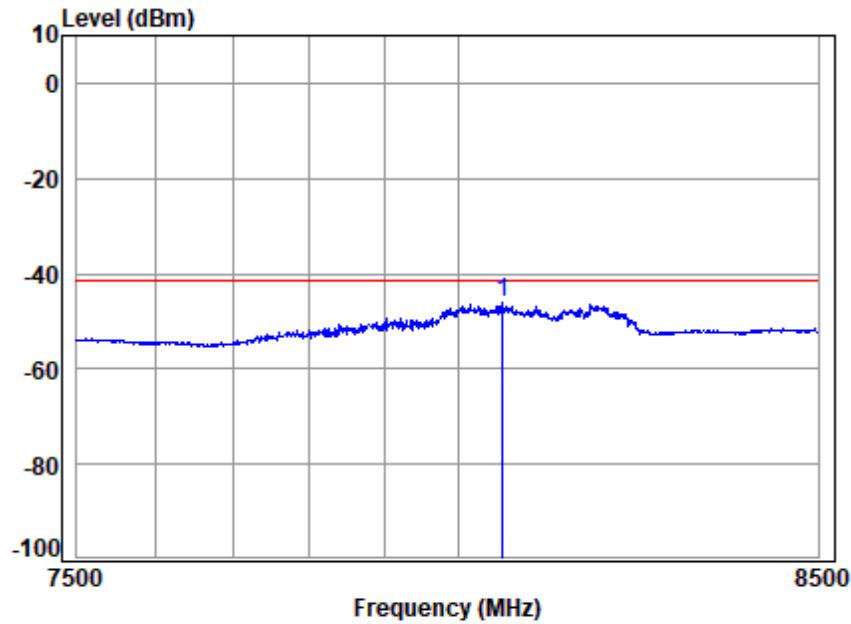
: BPRF SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	7987.36	-45.44	-41.30	-4.14



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: BPRF SP1

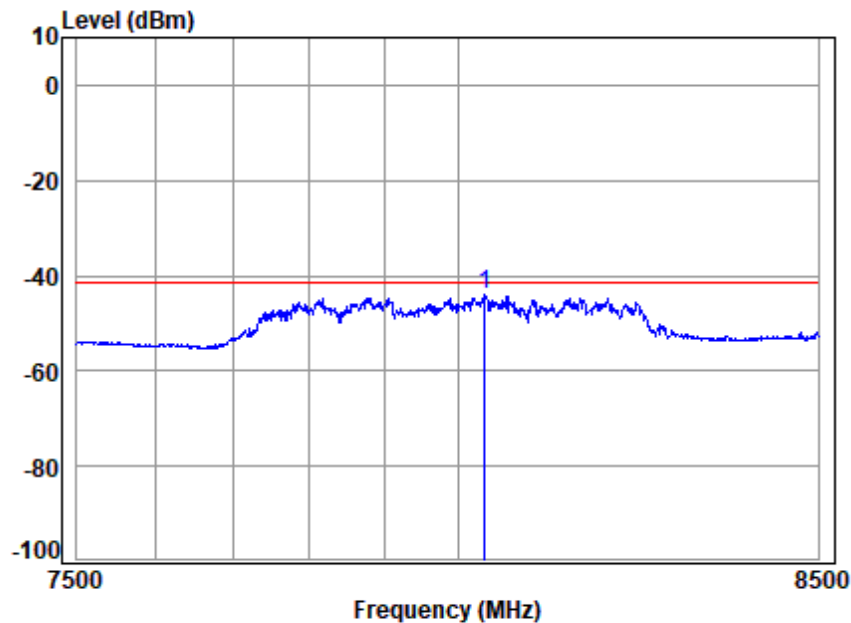
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8058.66	-46.23	-41.30	-4.93



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: BPRF SP1

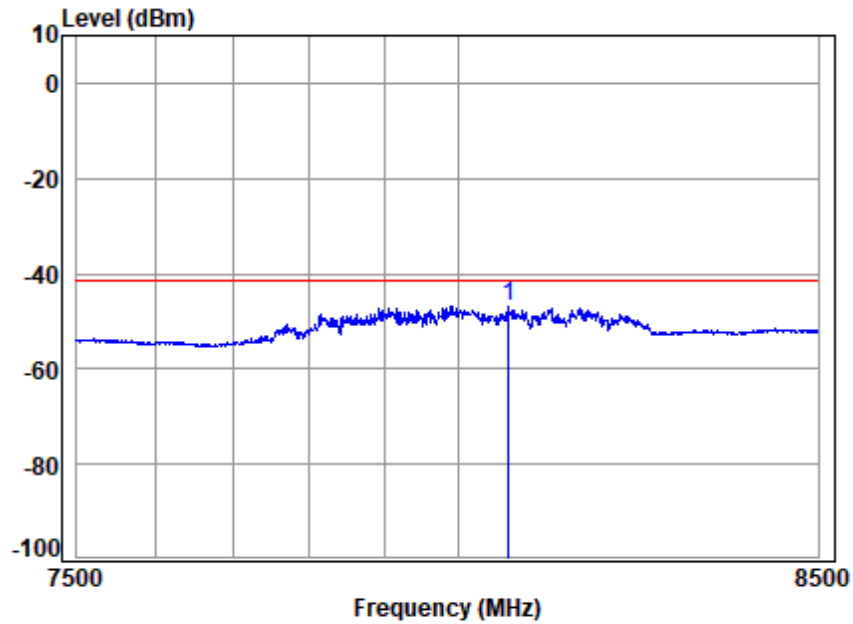
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8035.49	-43.91	-41.30	-2.61



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

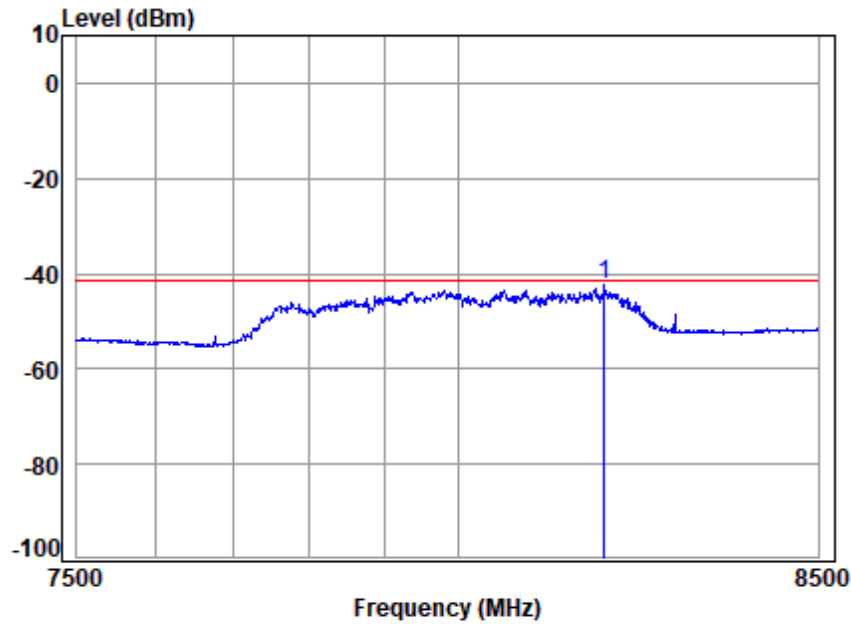
: BPRF SP3

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8067.74	-46.84	-41.30	-5.54



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: BPRF SP3

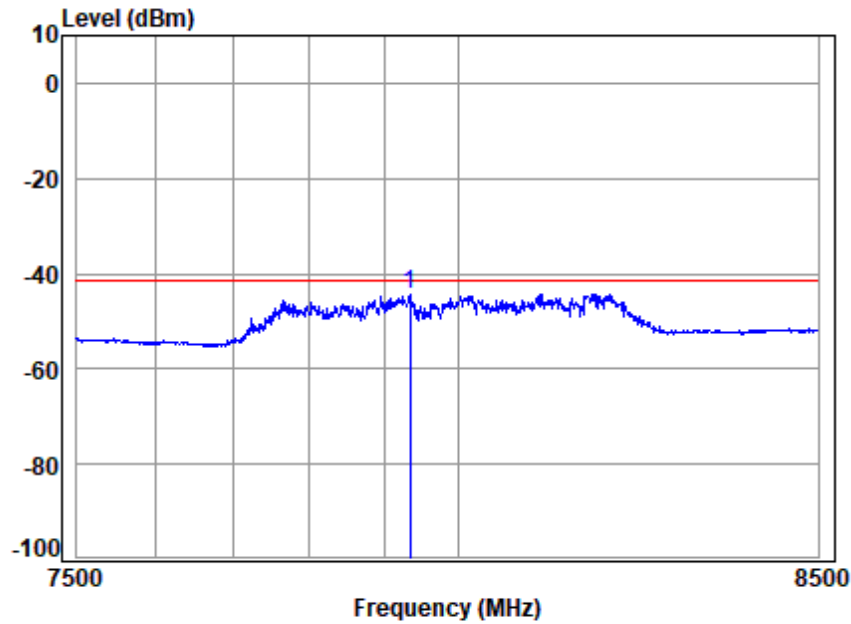
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8198.03	-42.26	-41.30	-0.96



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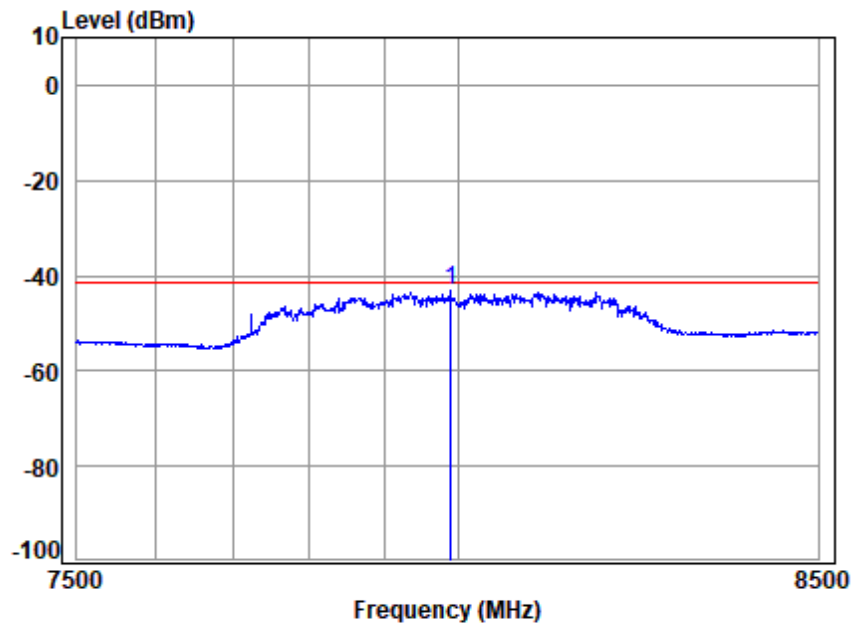
Condition: 3m HORIZONTAL
Job No.: 00175AT/00176AT
Test mode: CH9
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	7933.56	-44.31	-41.30	-3.01



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

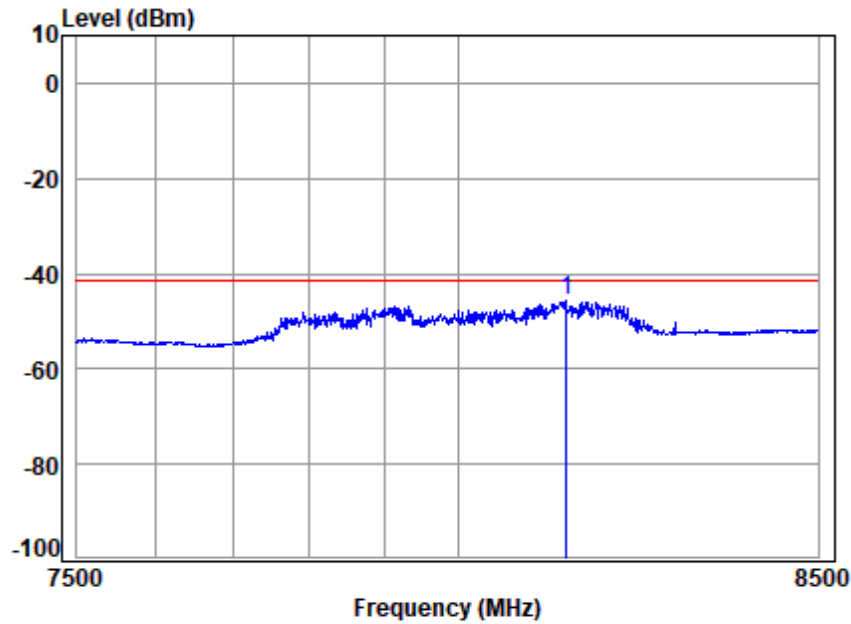
: HPRF 125M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	7987.36	-43.02	-41.30	-1.72



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

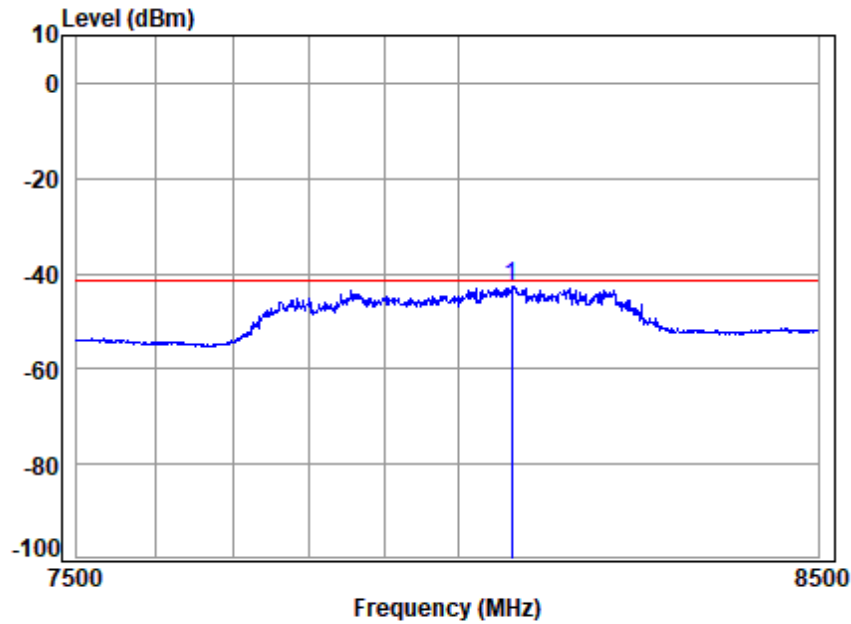
: HPRF 125M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8144.85	-45.78	-41.30	-4.48



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 125M SP1

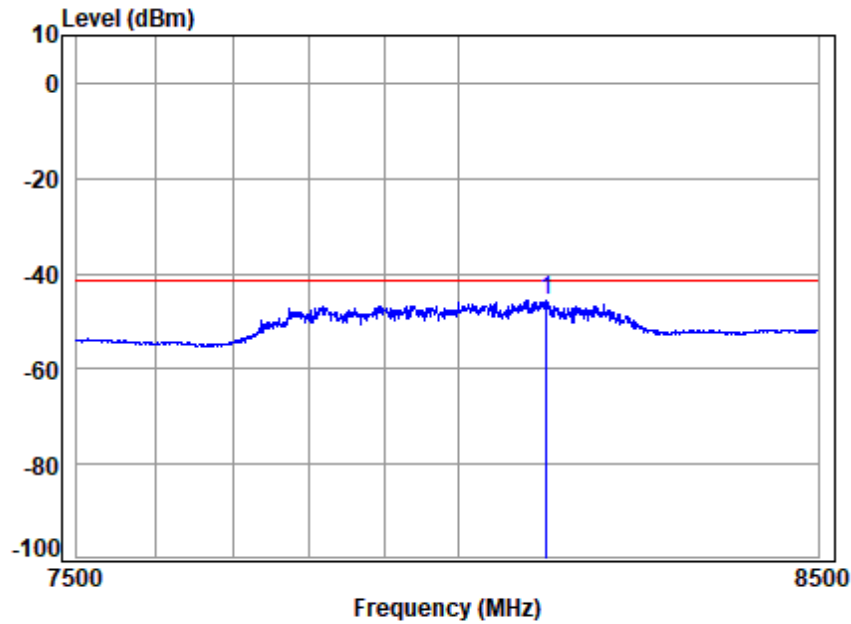
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8070.77	-42.79	-41.30	-1.49



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 125M SP3

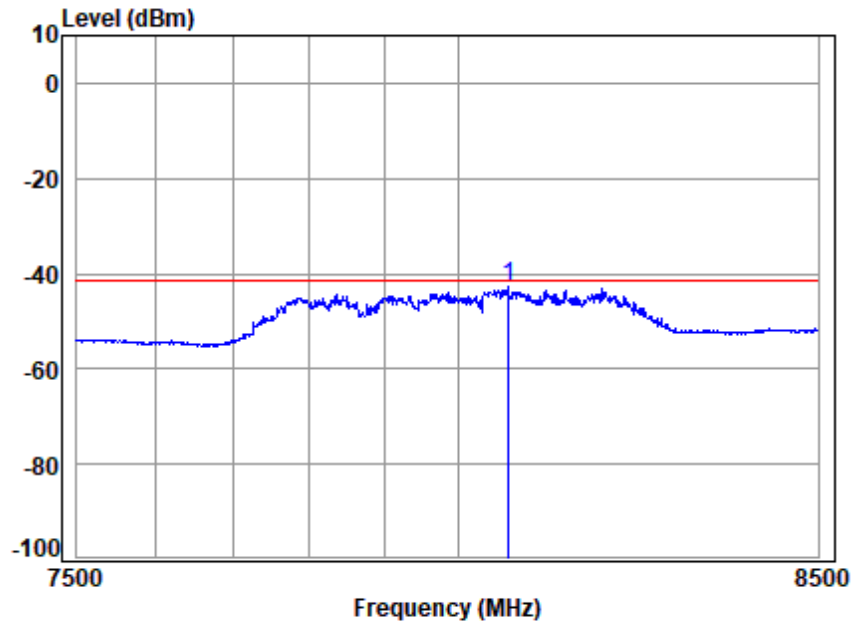
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8118.39	-45.60	-41.30	-4.30



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 125M SP3

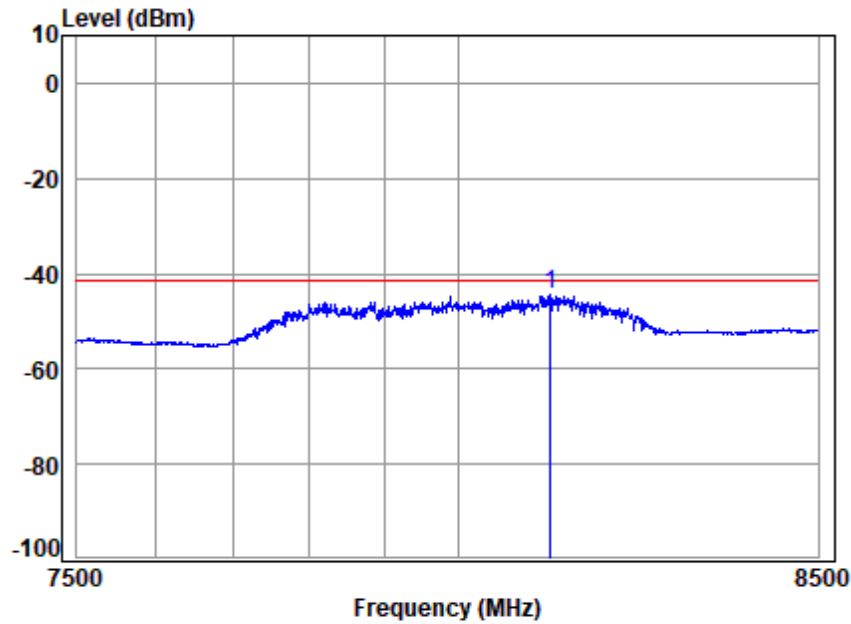
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8066.73	-42.74	-41.30	-1.44



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 250M SP0

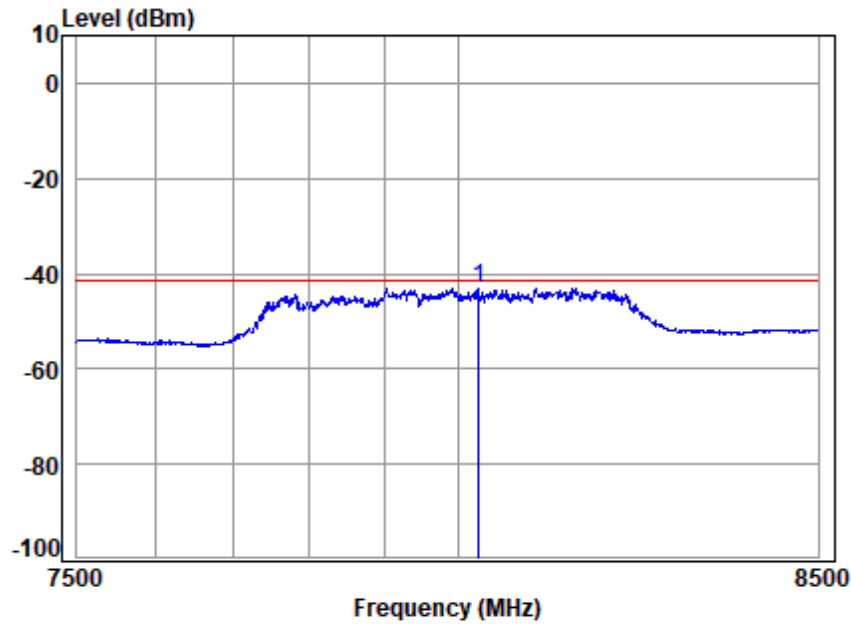
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8123.47	-44.47	-41.30	-3.17



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

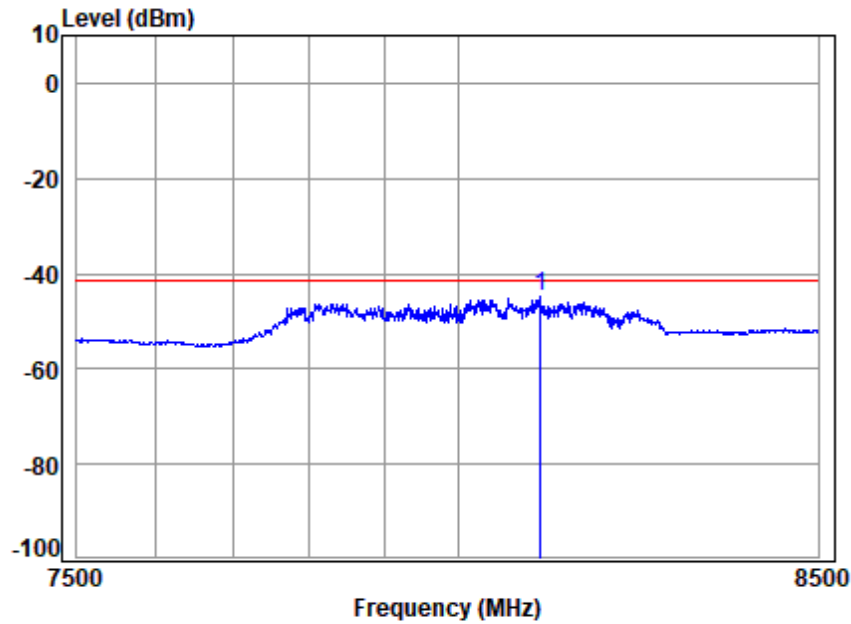
: HPRF 250M SP0

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8025.44	-43.14	-41.30	-1.84



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Condition: 3m HORIZONTAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 250M SP1

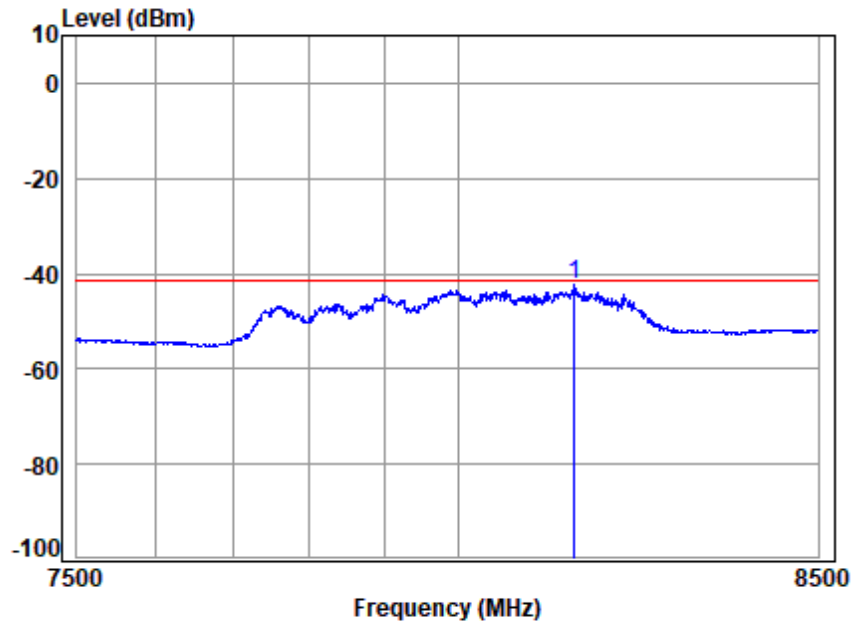
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8109.25	-44.77	-41.30	-3.47



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Condition: 3m VERTICAL

Job No.: 00175AT/00176AT

Test mode: CH9

: HPRF 250M SP1

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	8156.07	-42.47	-41.30	-1.17



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8.2 Spurious Emissions Below 1GHz

Test Requirement: 47 CFR Part 15 Section 15.519 (c)(d), 15.209, 15.521(c)(d)(h)
Test Method: ANSI C63.10 (2013) Section 10.2&10.3
Measurement Distance: 3m

Limit:

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-960MHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 960MHz	RMS	1MHz	3MHz	RMS
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1610MHz	-75.3 dBm (EIRP, RBW=1MHz)		RMS	3

8.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

8.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

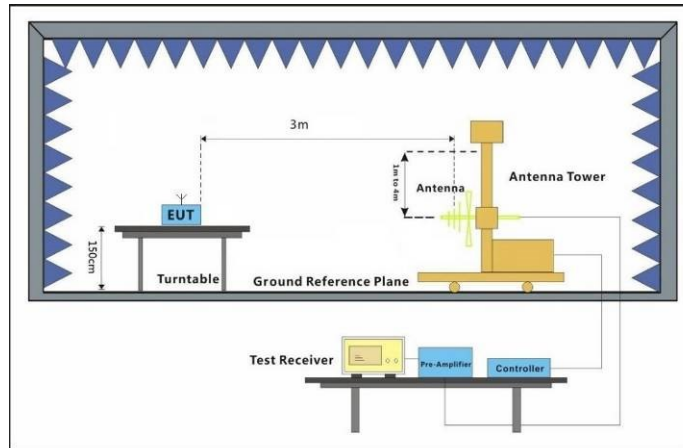


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8.2.3 Test Setup Diagram



8.2.4 Measurement Procedure and Data

- 1) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 3) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 4) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 5) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 6) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 7) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 8) Test the EUT in the lowest channel, the Highest channel
- 9) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode and found the X axis positioning which it is worse case.
- 10) Repeat above procedures until all frequencies measured was complete.
- 11) All modes of CH5, CH9, BPRF and HPRF have been a fully pretest and listed the worst one data in the report.

According to ANSI 63.10 Clause 10.3.9, the EIRP to field strength at a specified measurement distance of 3 m is below:

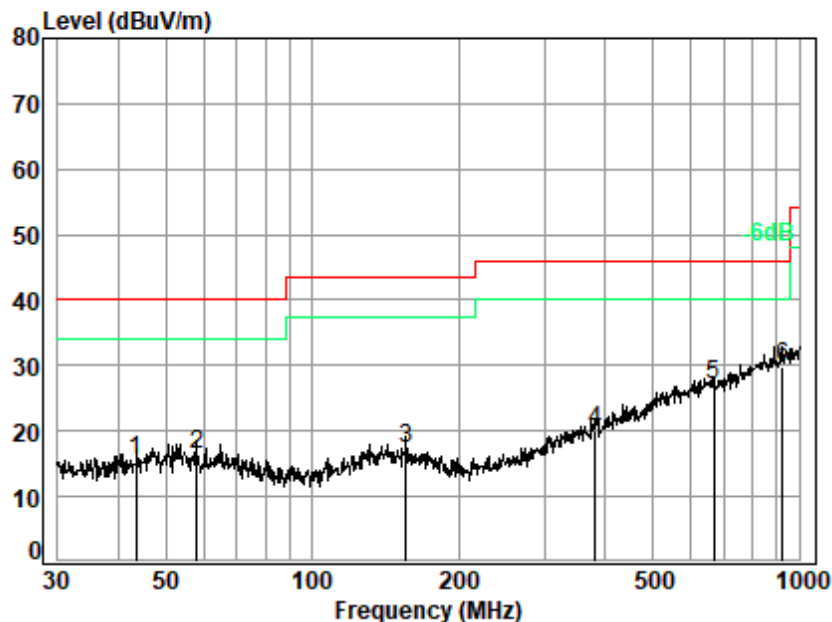
$$E \text{ (dBuV/m)} = \text{EIRP(dBm)} + 95.3$$



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Test Mode: 00; Polarity: Horizontal, CH 5, Mode: BPRF SP0



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00175AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	43.51	0.21	17.27	24.93	22.83	15.38	40.00	-24.62	QP
2	57.80	0.24	17.02	24.87	24.18	16.57	40.00	-23.43	QP
3	155.91	0.81	17.30	25.54	24.66	17.23	43.50	-26.27	QP
4	381.25	1.63	20.30	25.65	23.73	20.01	46.00	-25.99	QP
5	668.14	1.91	25.45	25.70	25.43	27.09	46.00	-18.91	QP
6 p	925.76	2.17	29.02	25.50	24.14	29.83	46.00	-16.17	QP

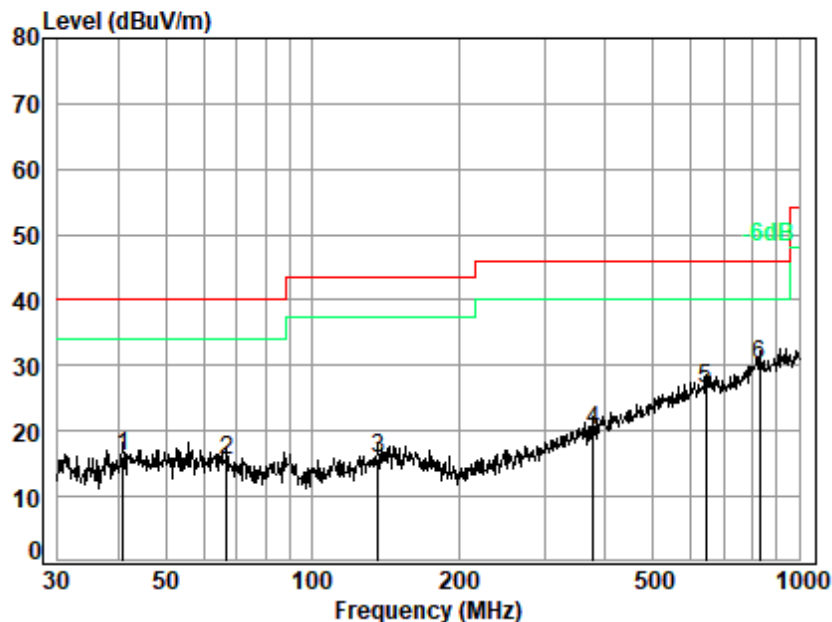


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Test Mode: 00; Polarity: Vertical, CH 5, Mode: BPRF SP0



Site : chamber
Condition: 3m VERTICAL
Job No : 00175AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.84	0.20	16.91	24.94	24.01	16.18	40.00	-23.82	QP
2	66.73	0.26	16.44	24.84	23.56	15.42	40.00	-24.58	QP
3	136.46	0.91	17.16	25.53	23.31	15.85	43.50	-27.65	QP
4	378.58	1.62	20.20	25.65	23.96	20.13	46.00	-25.87	QP
5	642.86	2.06	25.07	25.70	25.02	26.45	46.00	-19.55	QP
6 p	830.40	2.85	27.74	25.65	25.23	30.17	46.00	-15.83	QP



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8.3 Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15 Section 15.519 (c)(d), 15.209, 15.521(c)(d)(h)
Test Method: ANSI C63.10 (2013) Section 10.2&10.3
Measurement Distance: 1m or 3m
Limit:

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	Above 960MHz	RMS	1MHz	3MHz	RMS

Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	960MHz-1610MHz	-75.3 dBm (EIRP, RBW=1MHz)		RMS	3
	1610MHz-1990MHz	-63.3 dBm (EIRP, RBW=1MHz)		RMS	3
	1990MHz-3100MHz	-61.3 dBm (EIRP, RBW=1MHz)		RMS	3
	3100MHz-10600MHz	-41.3 dBm (EIRP, RBW=1MHz)		RMS	3
	Above 10600MHz	-61.3 dBm (EIRP, RBW=1MHz)		RMS	3
	1164MHz-1240MHz	-85.3 dBm (EIRP, RBW=1kHz)		RMS	3
	1559MHz-1610MHz	-85.3 dBm (EIRP, RBW=1kHz)		RMS	3

Frequency	Measurement Distance
960MHz-1610MHz	1
1610MHz-1990MHz	1
1990MHz-3100MHz	1
3100MHz-10600MHz	3
Above 10600MHz	1
1164MHz-1240MHz	1
1559MHz-1610MHz	1

Distance factor = $20 \cdot \log(1/3) = -9.54\text{dB}$

8.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.2 % RH Atmospheric Pressure: 1020 mbar



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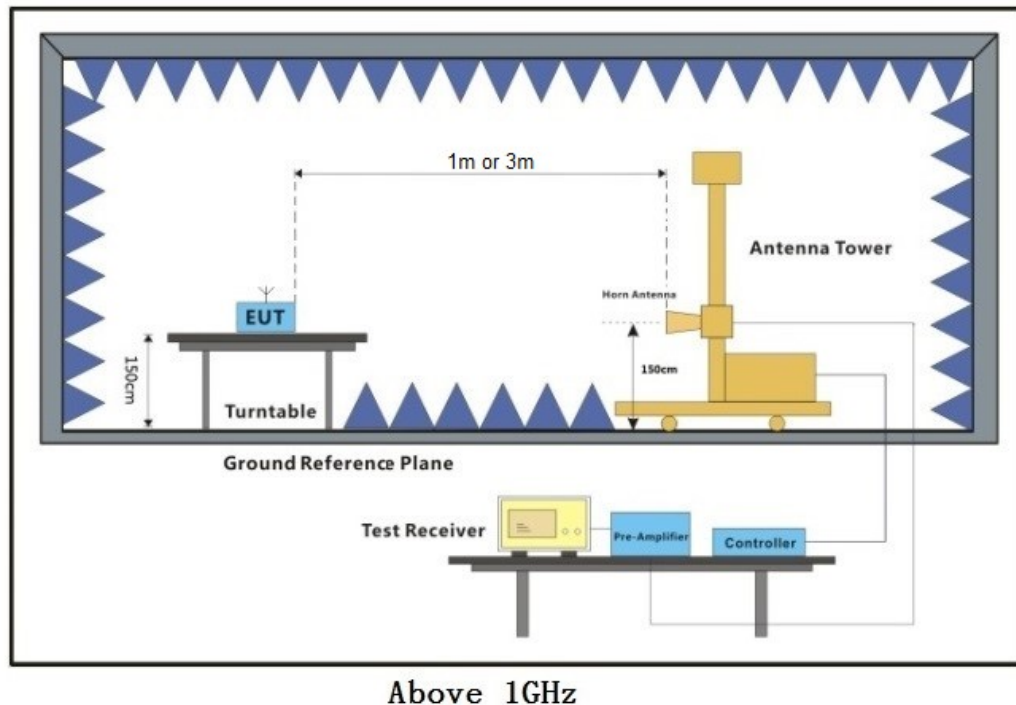
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8.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

8.3.3 Test Setup Diagram



8.3.4 Measurement Procedure and Data

- 1) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 3) The EUT was set 1 meter or 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 4) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 5) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 6) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 7) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 8) Test the EUT in the lowest channel, the Highest channel
- 9) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode and found the X axis positioning which it is worse case.
- 10) Repeat above procedures until all frequencies measured was complete.
- 11) All modes of CH5, CH9, BPRF and HPRF have been a fully pretest and listed the worst one data in the report.

According to ANSI 63.10 Clause 10.3.9, the EIRP to field strength at a specified measurement distance of 3 m is below:

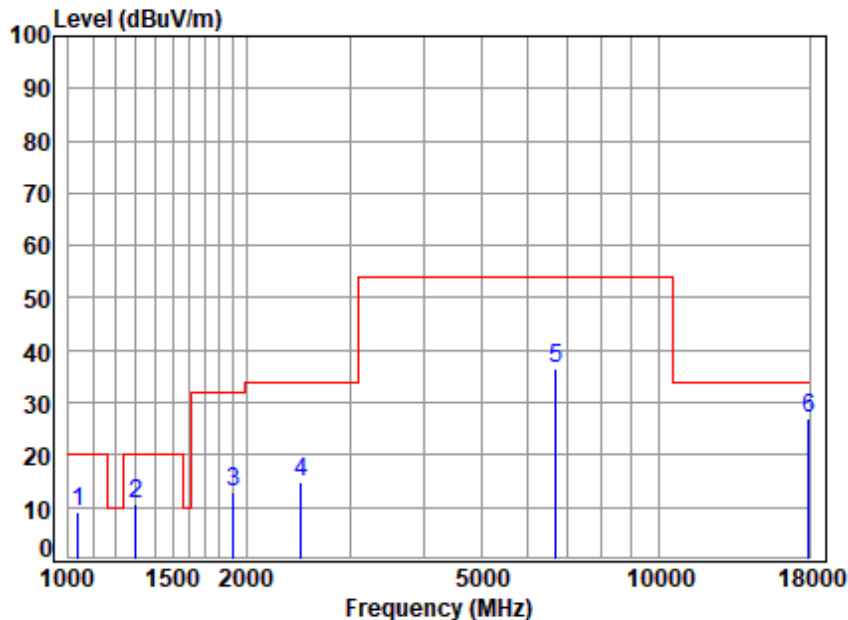
$$E \text{ (dBuV/m)} = \text{EIRP(dBm)} + 95.3$$



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Test Mode: 00; Polarity: Horizontal, CH 5, Mode: BPRF SP0



Site : chamber

Condition: HORIZONTAL

Job No : 00175AT/00176AT

Mode : CH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1035.293	2.26	24.67	48.02	19.10	9.17	20.00	-10.83	
2	1300.858	2.76	26.20	48.11	14.36	10.53	20.00	-9.47	
3	1894.154	3.84	25.77	48.28	21.55	12.86	32.00	-19.14	
4	2478.310	4.58	27.90	48.19	19.28	14.76	34.00	-19.24	
5	6659.763	7.58	33.62	47.33	32.25	36.32	54.00	-17.68	
6	p17896.250	15.02	46.17	45.96	0.61	26.97	34.00	-7.03	

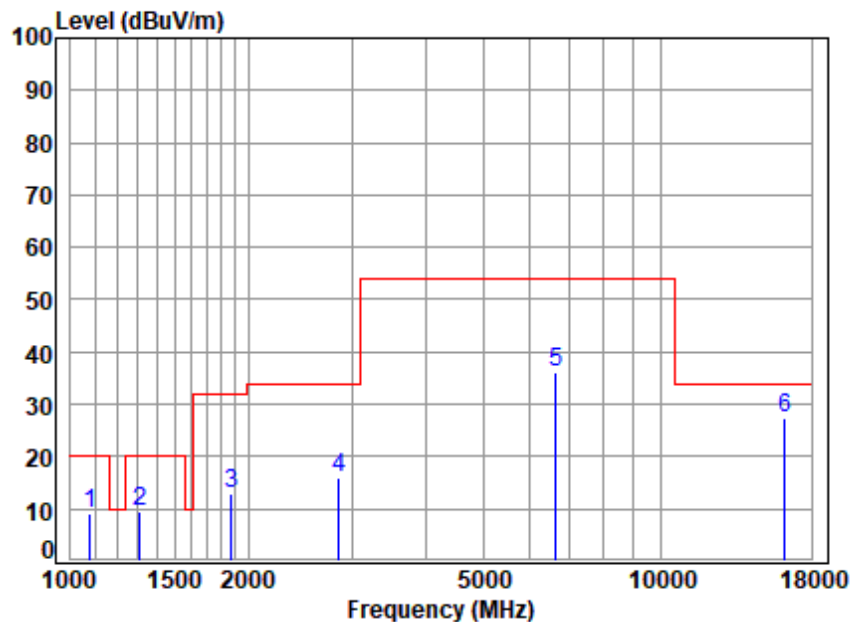


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Test Mode: 00; Polarity: Vertical, CH 5, Mode: BPRF SP0



Site : chamber
Condition: VERTICAL
Job No : 00175AT/00176AT
Mode : CH5

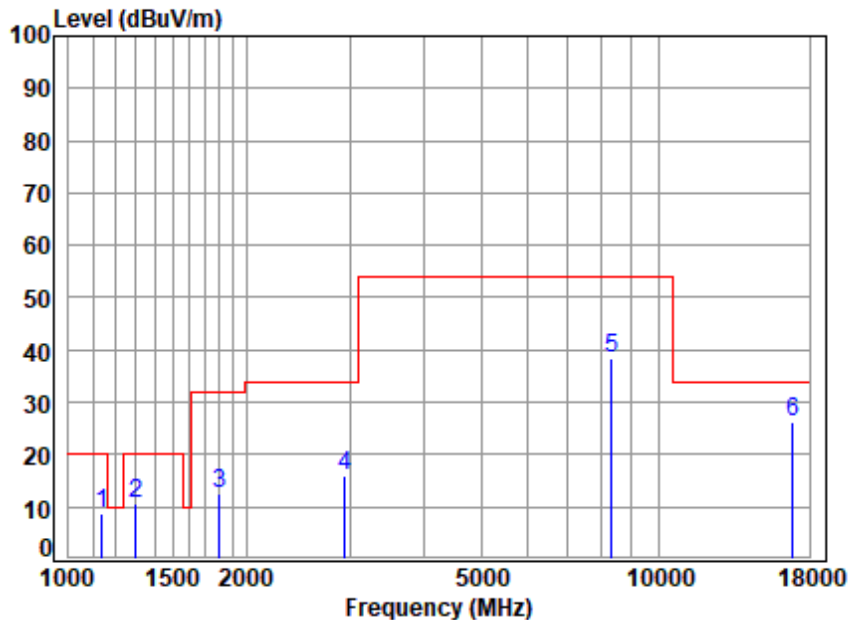
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1081.166	2.35	24.45	48.03	19.34	8.96	20.00	-11.04	
2	1308.399	2.77	26.20	48.12	13.44	9.39	20.00	-10.61	
3	1866.977	3.79	25.60	48.27	21.58	12.76	32.00	-19.24	
4	2838.921	5.85	27.98	48.13	19.17	16.05	34.00	-17.95	
5	6640.542	7.58	33.58	47.33	32.11	36.11	54.00	-17.89	
6	p16221.190	13.78	39.01	45.88	8.86	27.20	34.00	-6.80	



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Test Mode: 00; Polarity: Horizontal, CH 9, Mode: BPRF SP0



Site : chamber

Condition: HORIZONTAL

Job No : 00175AT/00176AT

Mode : CH9

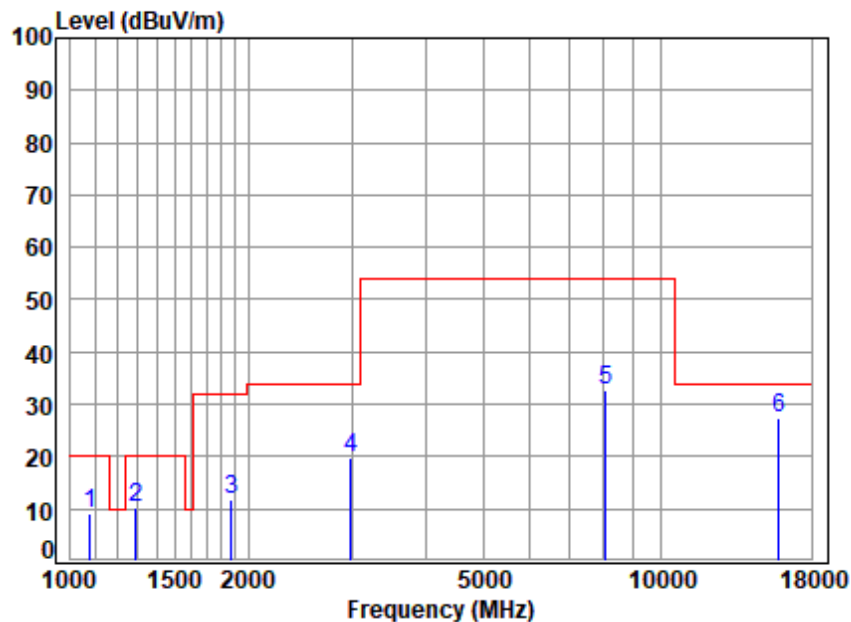
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	2.46	24.80	48.06	17.93	8.85	20.00	-11.15	
2	1300.858	2.76	26.20	48.11	14.36	10.53	20.00	-9.47	
3	1798.127	3.67	25.40	48.25	21.51	12.60	32.00	-19.40	
4	2939.115	6.19	28.26	48.11	18.32	16.05	34.00	-17.95	
5	8295.823	9.09	36.22	46.98	28.86	38.39	54.00	-15.61	
6	p16793.680	14.61	42.01	46.34	4.11	26.13	34.00	-7.87	



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Test Mode: 00; Polarity: Vertical, CH 9, Mode: BPRF SP0



Site : chamber

Condition: VERTICAL

Job No : 00175AT/00176AT

Mode : CH9

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1081.166	2.35	24.45	48.03	19.34	8.96	20.00	-11.04	
2	1285.904	2.73	26.23	48.11	14.32	10.25	20.00	-9.75	
3	1866.977	3.79	25.60	48.27	20.58	11.76	32.00	-20.24	
4	2990.531	6.36	28.30	48.10	21.69	19.74	34.00	-14.26	
5	8059.475	9.03	37.02	47.07	23.08	32.78	54.00	-21.22	
6	p15804.660	13.69	38.40	45.80	10.22	27.50	34.00	-6.50	



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8.4 UWB Bandwidth

Test Requirement 47 CFR Part 15 Section 15.503 (a) (d), 15.519(b), 15.521(e)
 Test Method: ANSI C63.10 (2013) Section10.1
 Limit: $\geq 500\text{MHz}$
 The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz

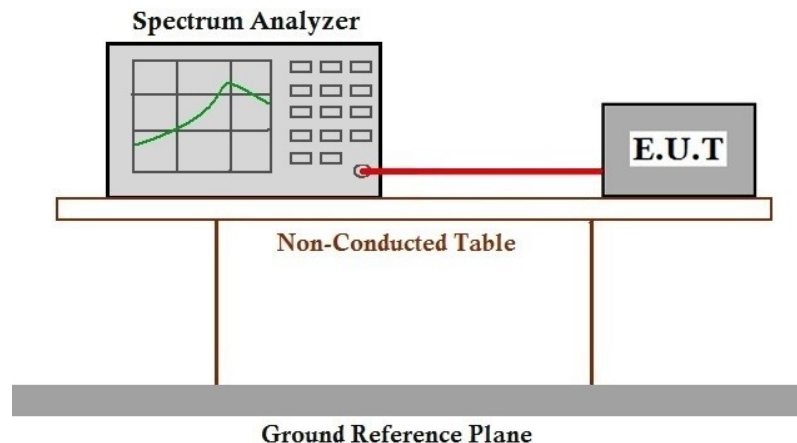
8.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.1 °C Humidity: 51.7 % RH Atmospheric Pressure: 1020 mbar

8.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

8.4.3 Test Setup Diagram



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8.4.4 Measurement Procedure and Data

The frequency at which the maximum power level is measured with the peak detector is designated f_M . The peak power measurements shall be made using a spectrum analyzer or EMI receiver with a 1 MHz resolution bandwidth and a video bandwidth of 1 MHz or greater. The instrument shall be set to peak detection using the maximum-hold trace mode. The outermost 1 MHz segments above and below f_M , where the peak power falls by 10 dB relative to the level at f_M , are designated as f_H and f_L , respectively:

- For the lowest frequency bound f_L , the emission is searched from a frequency lower than f_M that has, by inspection, a peak power much lower than 10 dB less than the power at f_M and increased toward f_M until the peak power indicates 10 dB less than the power at f_M . The frequency of that segment is recorded.
- This process is repeated for the highest frequency bound f_H , beginning at a frequency higher than f_M that has, by inspection, a peak power much lower than 10 dB below the power at f_M . The frequency of that segment is recorded.
- The two recorded frequencies represent the highest f_H and lowest f_L bounds of the UWB transmission, and the ± 10 dB bandwidth ($B - 10$) is defined as $(f_H - f_L)$. The center frequency (f_c) is mathematically determined from $(f_H - f_L) / 2$.
- The fractional bandwidth is defined as $2(f_H - f_L) / (f_H + f_L)$.
- Determine whether the -10 dB bandwidth $(f_H - f_L)$ is ≥ 500 MHz, or whether the fractional bandwidth $2(f_H - f_L) / (f_H + f_L)$ is ≥ 0.2 .



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Measurement Data

Ch	Freq [MHz]	mode	Data Rate	SP config	STS Num segments	Payload	10dB bandwidth
5	6489.6	BPRF (62.4M)	6.8Mbps	0	-	2	541.1
						64	547.0
						127	550.7
				1	1	2	545.0
						64	551.7
						127	552.5
					2	2	551.5
						64	551.9
						127	555.3
				3	1	0	554.2
					2	0	556.9

Ch	Freq [MHz]	mode	Data Rate	SP config	STS Num segments	Payload	10dB bandwidth
5	6489.6	HPRF (124.8M)	6.8Mbps	0	-	2	555.1
						512	556.6
						1023	558.3
				1	1	2	552.8
						512	556.3
						1023	555.8
				3	1	0	560.9
					2	0	556.1

Ch	Freq [MHz]	mode	Data Rate	SP config	STS Num segments	Payload	10dB bandwidth
5	6489.6	HPRF (249.6M)	27Mbps	0	-	2	551.4
						512	554.2
						1023	558.0
				1	1	2	554.2
						512	555.0
						1023	557.4



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Ch	Freq [MHz]	mode	Data Rate	SP config	STS Num segments	Payload	10dB bandwidth
9	7987.2	BPRF (62.4M)	6.8Mbps	0	-	2	556.3
						64	561.9
						127	596.1
				1	1	2	561.4
						64	561.0
						127	565.8
					2	2	563.4
						64	565.0
						127	566.4
				3	1	0	568.7
					2	0	568.3

Ch	Freq [MHz]	mode	Data Rate	SP config	STS Num segments	Payload	10dB bandwidth
9	7987.2	HPRF (124.8M)	6.8Mbps	0	-	2	570.8
						512	567.2
						1023	569.0
				1	1	2	567.9
						512	568.1
						1023	568.6
				3	1	0	565.2
					2	0	565.4

Ch	Freq [MHz]	mode	Data Rate	SP config	STS Num segments	Payload	10dB bandwidth
9	7987.2	HPRF (249.6M)	27Mbps	0	-	2	562.6
						512	566.7
						1023	567.9
				1	1	2	567.0
						512	566.5
						1023	567.0

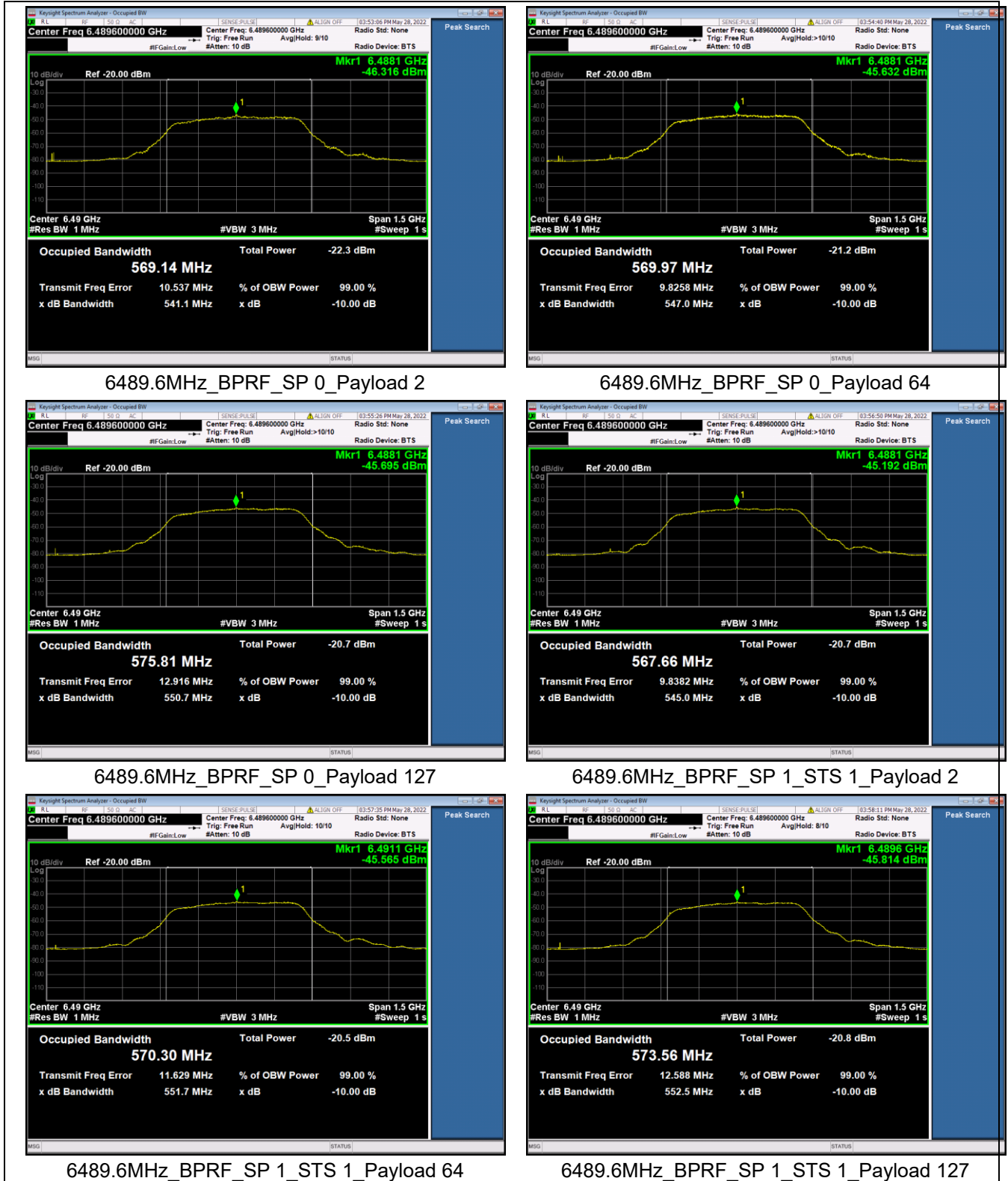


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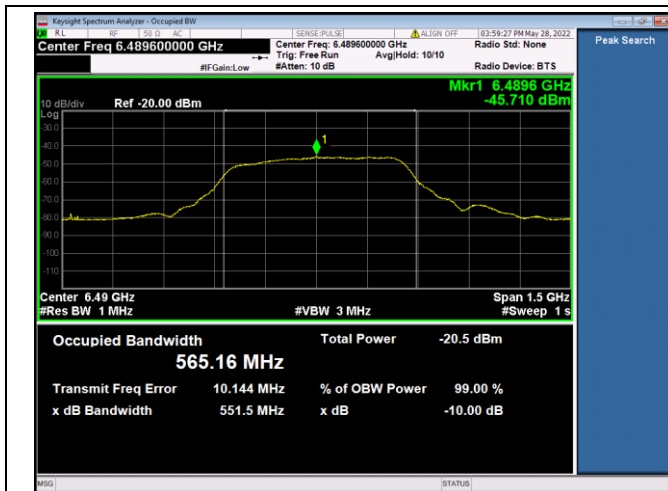
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Test plot as follows:

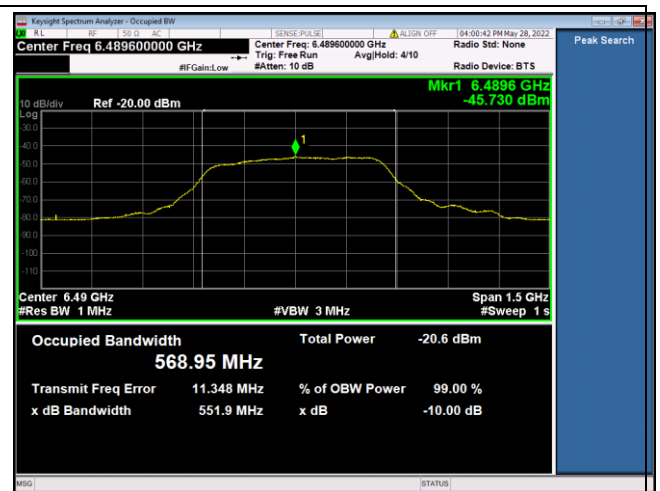


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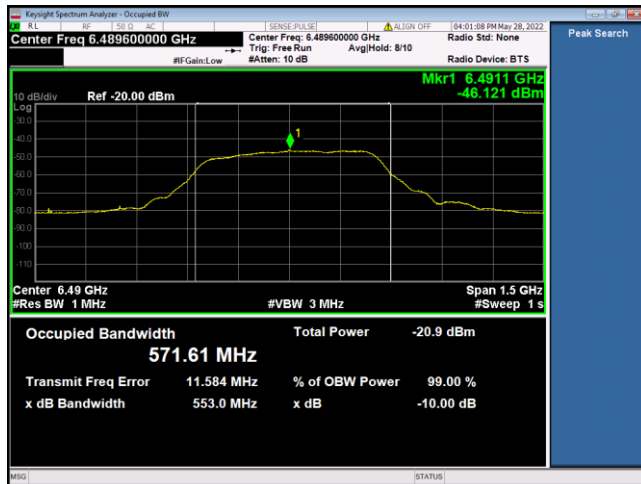
Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·宝安区福永街道凤塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com



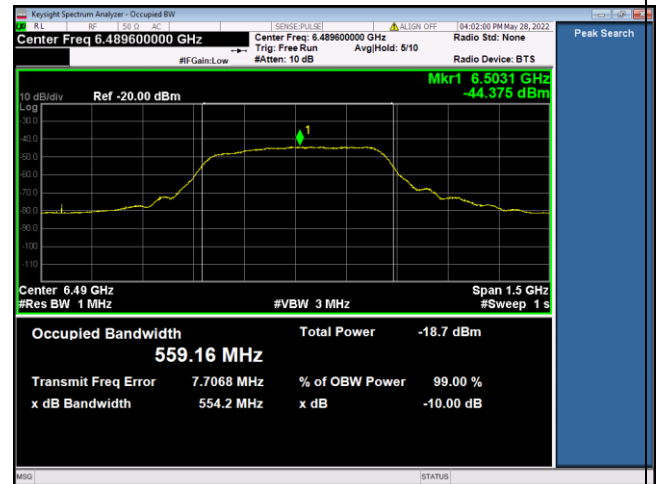
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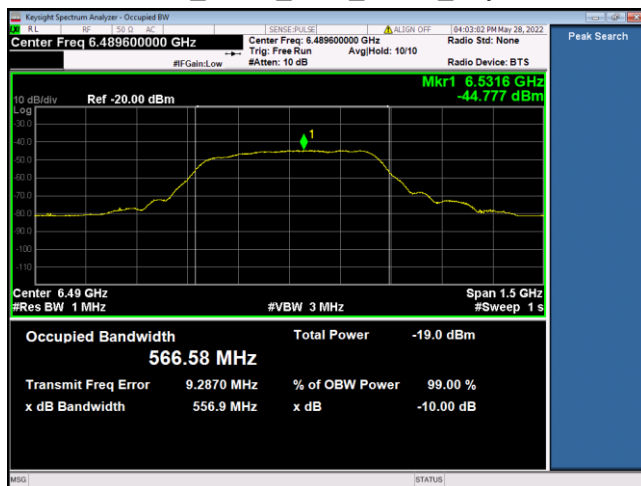
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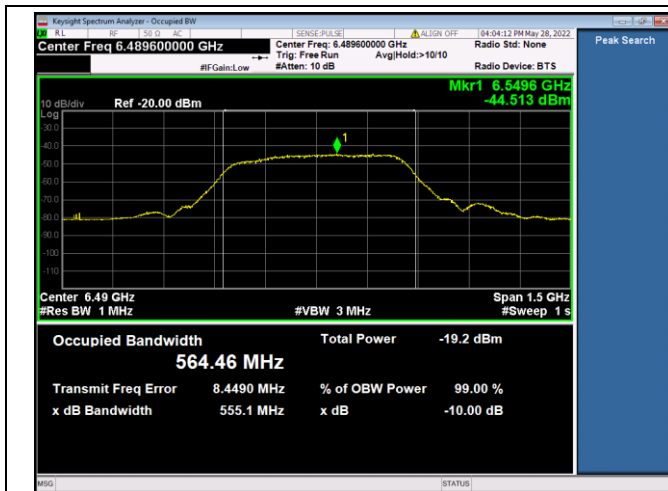
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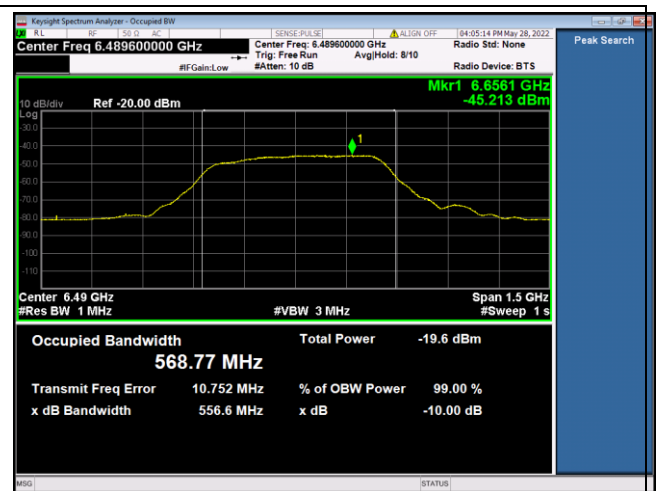
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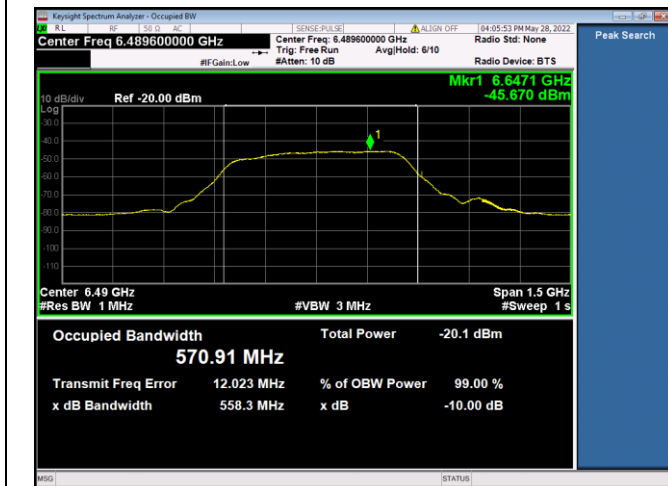
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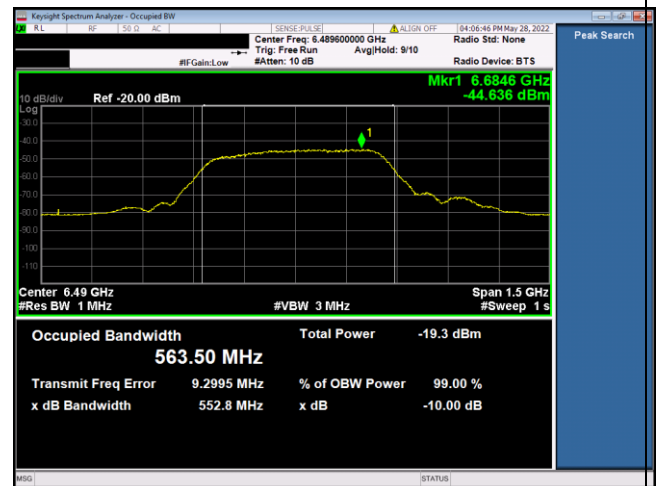
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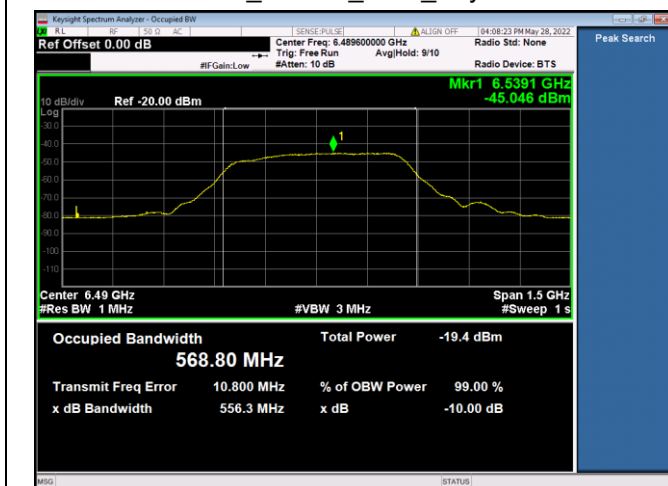
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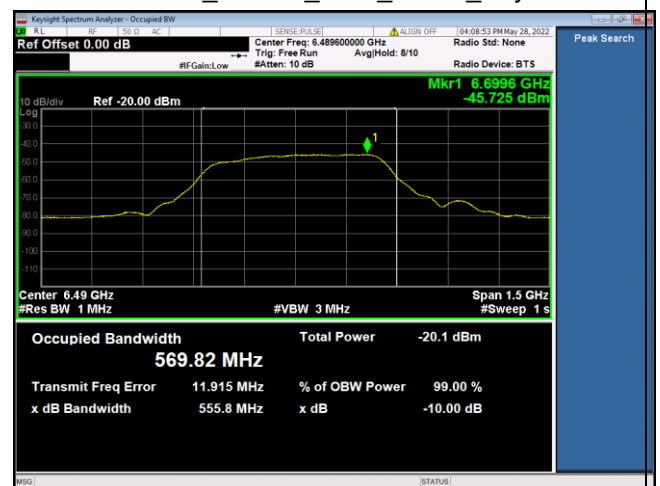
6489.6MHz_HPRF1_SP 0_Payload 1023



6489.6MHz_HPRF1_SP 1_STS 1_Payload 2



6489.6MHz_HPRF1_SP 1_STS 1_Payload 512



6489.6MHz_HPRF1_SP 1_STS 1_Payload 1023



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