

Test Report

Report No. : MTi250319007-0104E4
Date of issue : 2025-09-03
Applicant : Guangzhou Havit Technology Co., Ltd.
Product : Projector
Model(s) : PJ209APlus
FCC ID : 2AI6I-PJ209APLUS

Shenzhen Microtest Co., Ltd.

TEST REPORT

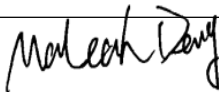
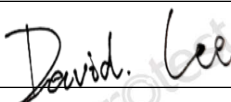
Report No.: MTi250319007-0104E4

Table of contents

1	General Description	4
1.1	Description of the EUT	4
1.2	Description of test modes	4
1.3	Environmental Conditions	10
1.4	Description of support units	10
1.5	Measurement uncertainty	10
2	Summary of Test Result	11
3	Test Facilities and accreditations	12
3.1	Test laboratory	12
4	List of test equipment	13
5	Evaluation Results (Evaluation)	14
5.1	Antenna requirement	14
6	Radio Spectrum Matter Test Results (RF)	14
6.1	Conducted Emission at AC power line	14
6.2	Duty Cycle	17
6.3	Emission bandwidth and occupied bandwidth	18
6.4	Maximum conducted output power	20
6.5	Power spectral density	22
6.6	Band edge emissions (Radiated)	24
6.7	Undesirable emission limits (below 1GHz)	163
6.8	Undesirable emission limits (above 1GHz)	174
	Photographs of the test setup	189
	Photographs of the EUT	190
	Appendix A1: Emission bandwidth (26dB bandwidth)	192
	Appendix A2: Occupied channel bandwidth	221
	Appendix A3: Min emission bandwidth	250
	Appendix B: Duty Cycle	265
	Appendix C: Maximum conducted output power	294
	Appendix D: Maximum power spectral density	347
	Photographs of the Test Setup	401
	Photographs of the EUT	402

TEST REPORT

Report No.: MTi250319007-0104E4

Test Result Certification		
Applicant	Guangzhou Havit Technology Co., Ltd.	
Applicant Address	ROOM 1307, 13F, PHASE 2 B, C BUILDING OF POLY WORLD TRADE CENTER, NO.1000, XINGANG EAST ROAD, HAIZHU GUANGDONG China	
Manufacturer	Guangzhou Havit Technology Co., Ltd.	
Manufacturer Address	ROOM 1307, 13F, PHASE 2 B, C BUILDING OF POLY WORLD TRADE CENTER, NO.1000, XINGANG EAST ROAD, HAIZHU GUANGDONG China	
Product description		
Product name	Projector	
Trademark	HAVIT	
Model name	PJ209APlus	
Series Model(s)	N/A	
Standards	47 CFR Part 15E	
Test Method	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10-2020	
Testing Information		
Date of test	2025-07-23 to 2025-08-31	
Test result	Pass	
Prepared by:	Maleah Deng	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

TEST REPORT

Report No.: MTi250319007-0104E4

1 General Description

1.1 Description of the EUT

Product name:	Projector
Model name:	PJ209APlus
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: 100-240Vac 50/60Hz, 85W
Accessories:	Cable: Power cable*1 Remote Control*1
Hardware version:	2800-A96302-25
Software version:	V11.1.0.8
Test sample(s) number:	MTi250319007-01-R002
RF specification	
Operating frequency range:	802.11a/n(HT20)/ac(HT20): U-NII-1: 5180MHz to 5240MHz; U-NII-3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40): U-NII-1: 5190MHz to 5230MHz; U-NII-3: 5755MHz to 5795MHz; 802.11ac(HT80): U-NII-1: 5210MHz; U-NII-3: 5775MHz
Modulation type:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna(s) type:	FPC Antenna
Antenna(s) gain:	U-NII-1: Ant0: 2.3dBi; Ant1: 2.3dBi; Directional gain: 5.31dBi, correlated antenna. U-NII-3: Ant0: 3.41dBi; Ant1: 3.41dBi; Directional gain: 6.42dBi, correlated antenna.

1.2 Description of test modes

No.	Emission test modes
Mode1	802.11a mode
Mode2	802.11n20 mode-SISO
Mode3	802.11n40 mode-SISO
Mode4	802.11ac20 mode-SISO
Mode5	802.11ac40 mode-SISO
Mode6	802.11ac80 mode-SISO

TEST REPORT

Report No.: MTi250319007-0104E4

Mode7	802.11n20 mode-MIMO
Mode8	802.11n40 mode-MIMO
Mode9	802.11ac20 mode-MIMO
Mode10	802.11ac40 mode-MIMO
Mode11	802.11ac80 mode-MIMO

1.2.1 Operation channel list

U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/

U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

Test Channel List

U-NII Band 1:

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	5180	5200	5240
40	5190	5230	/
80	5210	/	/

TEST REPORT

Report No.: MTi250319007-0104E4

U-NII Band 3:

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	5745	5755	5775
40	5785	5795	/
80	5825	/	/

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software:

For power setting, refer to below table.

Test Software:	MTK_WiFi_test_tool
-----------------------	---------------------------

SISO:

For U-NII-1 (ANT0):

802.11a		802.11n20	
Channel	Power setting	Channel	Power setting
36	Default	36	Default
40	Default	40	Default
48	Default	48	Default
802.11n40		802.11ac20	
Channel	Power setting	Channel	Power setting
38	Default	36	Default
46	Default	40	Default
--	--	48	Default
802.11ac40		802.11ac80	
Channel	Power setting	Channel	Power setting
38	Default	42	Default
46	Default	--	--
--	--	--	--

For U-NII-1 (ANT1):

802.11a		802.11n20	
Channel	Power setting	Channel	Power setting
36	Default	36	Default
40	Default	40	Default
48	Default	48	Default
802.11n40		802.11ac20	
Channel	Power setting	Channel	Power setting
38	Default	36	Default
46	Default	40	Default
--	--	48	Default
802.11ac40		802.11ac80	
Channel	Power setting	Channel	Power setting
38	Default	42	Default
46	Default	--	--
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TEST REPORT

Report No.: MTi250319007-0104E4

MIMO:
For U-NII-1 (ANT0):

802.11n20		802.11n40	
Channel	Channel	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac20		802.11ac40	
Channel	Power setting	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac80		/	
Channel	Power setting	Channel	Power setting
42	Default	--	--
--	--	--	--
--	--	--	--

For U-NII-1 (ANT1):

802.11n20		802.11n40	
Channel	Channel	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac20		802.11ac40	
Channel	Power setting	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac80		/	
Channel	Power setting	Channel	Power setting
42	Default	--	--
--	--	--	--
--	--	--	--

TEST REPORT

Report No.: MTi250319007-0104E4

SISO:
For U-NII-3(ANT0):

802.11a		802.11n20	
Channel	Power setting	Channel	Power setting
149	Default	149	Default
157	Default	157	Default
165	Default	165	Default
802.11n40		802.11ac20	
Channel	Power setting	Channel	Power setting
151	Default	149	Default
159	Default	157	Default
--	--	165	Default
802.11ac40		802.11ac80	
Channel	Power setting	Channel	Power setting
151	Default	155	Default
159	Default	--	--
--	--	--	--

For U-NII-3(ANT1):

802.11a		802.11n20	
Channel	Power setting	Channel	Power setting
149	Default	149	Default
157	Default	157	Default
165	Default	165	Default
802.11n40		802.11ac20	
Channel	Power setting	Channel	Power setting
151	Default	149	Default
159	Default	157	Default
--	--	165	Default
802.11ac40		802.11ac80	
Channel	Power setting	Channel	Power setting
151	Default	155	Default
159	Default	--	--
--	--	--	--

TEST REPORT

Report No.: MTi250319007-0104E4

MIMO:
For U-NII-3 (ANT0):

802.11n20		802.11n40	
Channel	Channel	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac20		802.11ac40	
Channel	Power setting	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac80		/	
Channel	Power setting	Channel	Power setting
42	Default	--	--
--	--	--	--
--	--	--	--

For U-NII-3 (ANT1):

802.11n20		802.11n40	
Channel	Channel	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac20		802.11ac40	
Channel	Power setting	Channel	Power setting
36	Default	38	Default
40	Default	46	Default
48	Default	--	--
802.11ac80		/	
Channel	Power setting	Channel	Power setting
42	Default	--	--
--	--	--	--
--	--	--	--

TEST REPORT

Report No.: MTi250319007-0104E4

1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list

Description	Model	Serial No.	Manufacturer
/	/	/	/

Support cable list

Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Time	±1 %
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

TEST REPORT

Report No.: MTi250319007-0104E4

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15E	Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15E	47 CFR Part 15.207(a)	Pass
3	Duty Cycle	47 CFR Part 15E		Pass
4	Emission bandwidth and occupied bandwidth	47 CFR Part 15E	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
5	Maximum conducted output power	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	Pass
6	Power spectral density	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)	Pass
7	Band edge emissions (Radiated)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
8	Undesirable emission limits (below 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(9)	Pass
9	Undesirable emission limits (above 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass

TEST REPORT

Report No.: MTi250319007-0104E4

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

TEST REPORT

Report No.: MTi250319007-0104E4

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESC13	101368	2025-03-14	2026-03-13
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2025-03-18	2026-03-17
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2025-03-18	2026-03-17
Power spectral density Duty Cycle Emission bandwidth and occupied bandwidth Maximum conducted output power						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03-18	2026-03-17
2	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2025-03-14	2026-03-13
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2025-03-14	2026-03-13
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2025-03-14	2026-03-13
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2025-03-18	2026-03-17
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2025-03-14	2026-03-13
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2025-03-14	2026-03-13
9	DC Power Supply	Agilent	E3632A	MY40027695	2025-03-18	2026-03-17
Band edge emissions (Radiated) Undesirable emission limits (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESC17	101166	2025-03-14	2026-03-13
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2025-05-27	2027-05-26
3	Amplifier	Agilent	8449B	3008A01120	2025-03-18	2026-03-17
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2025-03-14	2026-03-13
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2025-05-27	2027-05-26
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2025-03-19	2026-03-18
Undesirable emission limits (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESC17	101166	2025-03-14	2026-03-13
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17

TEST REPORT

Report No.: MTi250319007-0104E4

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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.
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6 Radio Spectrum Matter Test Results (RF)

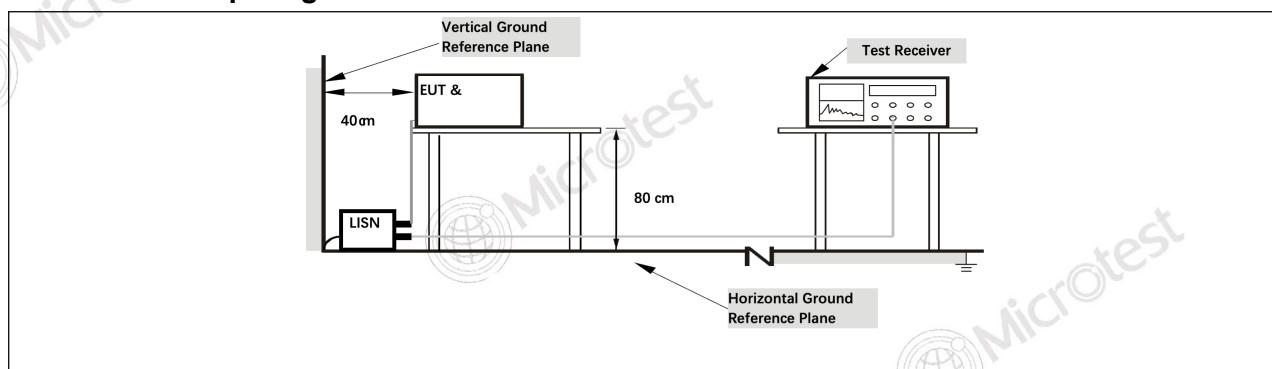
6.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test 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.			
Test Method:	ANSI C63.10-2020 section 6.2		

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	26 °C	Humidity:	45 %	Atmospheric Pressure:	100 kPa
Pre test mode:		Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report			
Note: Both Ant0 and Ant1 have tested the SISO mode, only the data of the worst Ant0 mode is recorded					

6.1.2 Test Setup Diagram:

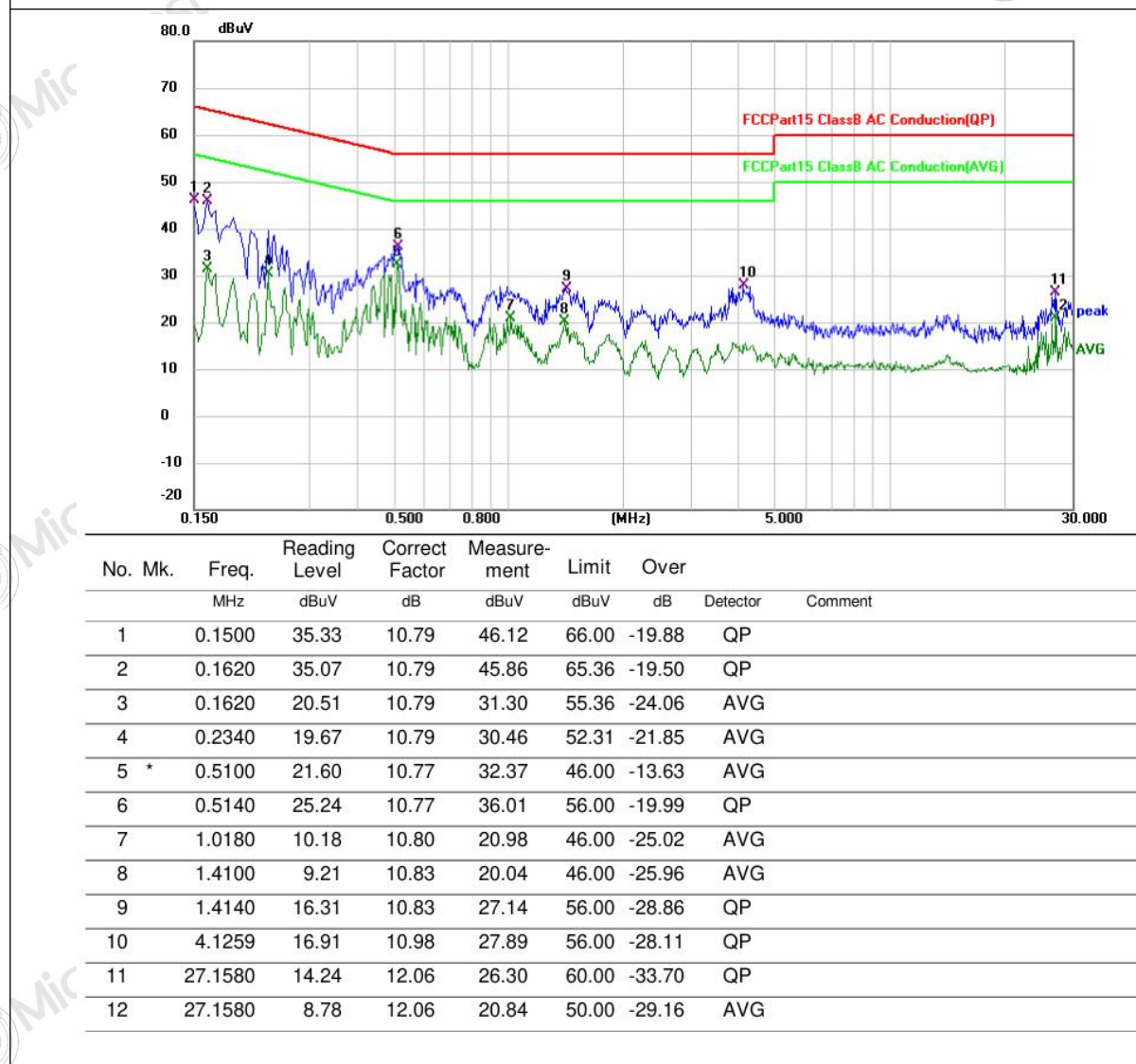


TEST REPORT

Report No.: MTi250319007-0104E4

6.1.3 Test Data:

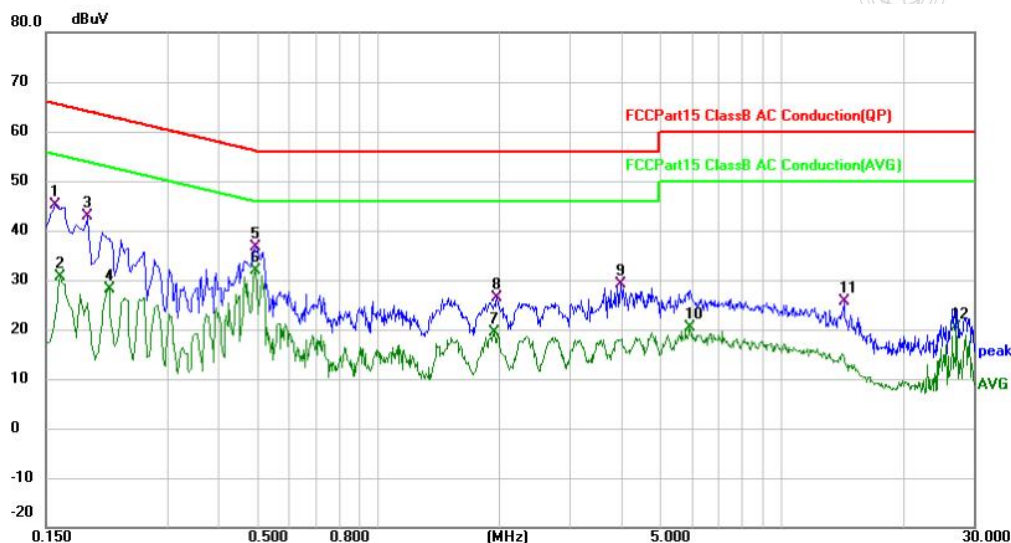
Mode1 / Line: Line / CH: L



TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Line: Neutral / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	34.33	10.69	45.02	65.57	-20.55	QP	
2		0.1620	19.89	10.69	30.58	55.36	-24.78	AVG	
3		0.1900	32.08	10.69	42.77	64.04	-21.27	QP	
4		0.2140	17.36	10.69	28.05	53.05	-25.00	AVG	
5		0.4980	26.03	10.67	36.70	56.03	-19.33	QP	
6	*	0.4980	21.23	10.67	31.90	46.03	-14.13	AVG	
7		1.9460	8.62	10.74	19.36	46.00	-26.64	AVG	
8		1.9740	15.75	10.74	26.49	56.00	-29.51	QP	
9		3.9980	18.20	10.86	29.06	56.00	-26.94	QP	
10		5.9140	9.37	10.99	20.36	50.00	-29.64	AVG	
11		14.3140	13.95	11.63	25.58	60.00	-34.42	QP	
12		27.1580	8.30	12.00	20.30	50.00	-29.70	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

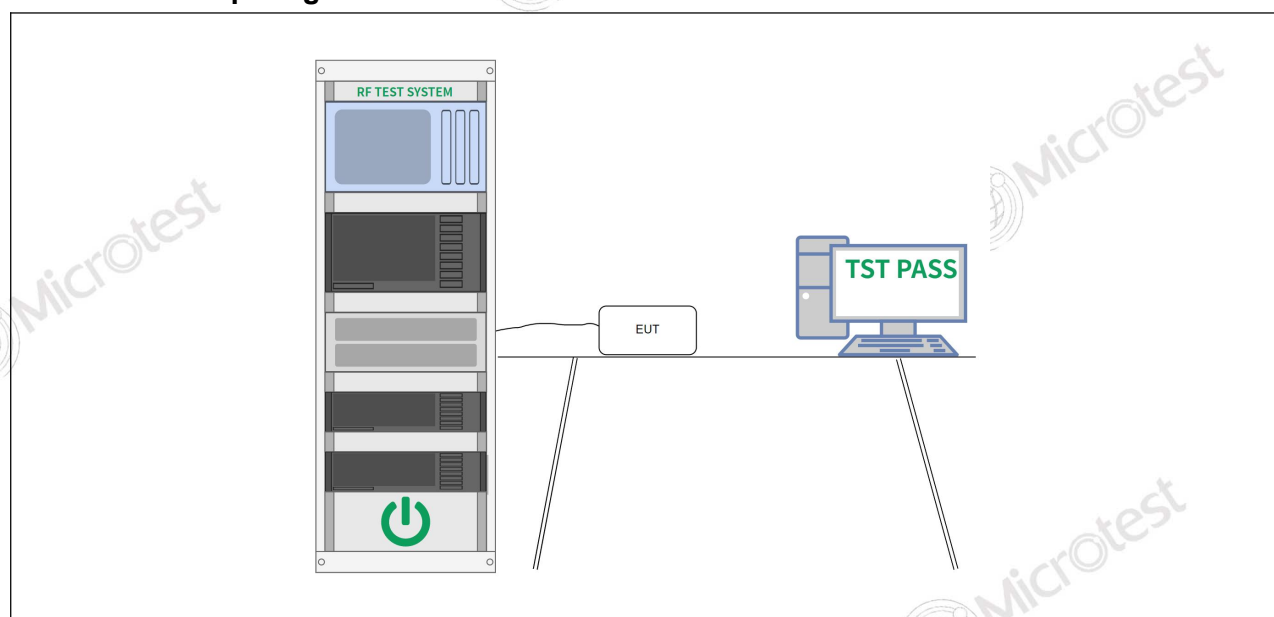
6.2 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2020 section 12.2 (b)
Procedure:	i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW $\geq$ RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.3 °C	Humidity:	45.3 %	Atmospheric Pressure:	98 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

Report No.: MTi250319007-0104E4

6.3 Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5 KDB 789033 D02, Clause C.2
Procedure:	Emission bandwidth: - Set RBW=shall be in the range of 1% to 5% of the emission bandwidth. - Set the VBW > RBW. - Detector = peak. - Trace mode =max-hold. - Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%. Occupied bandwidth: - The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. - The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement. - Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. - Step a) through step c) might require iteration to adjust within the specified range. - Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. - Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. - If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points,

TEST REPORT

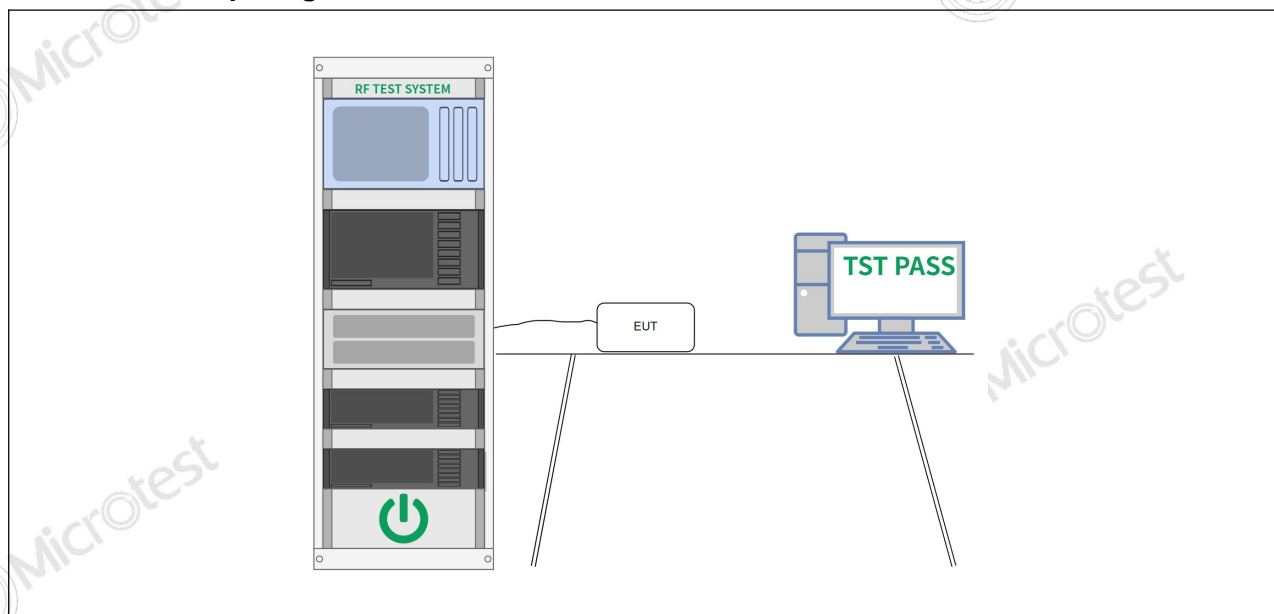
Report No.: MTi250319007-0104E4

	beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s). 6 dB emission bandwidth: a) Set RBW = 100 kHz. b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW. c) Detector = Peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
--	--

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.3 °C	Humidity:	45.3 %	Atmospheric Pressure:	98 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

Report No.: MTi250319007-0104E4

6.4 Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any

TEST REPORT

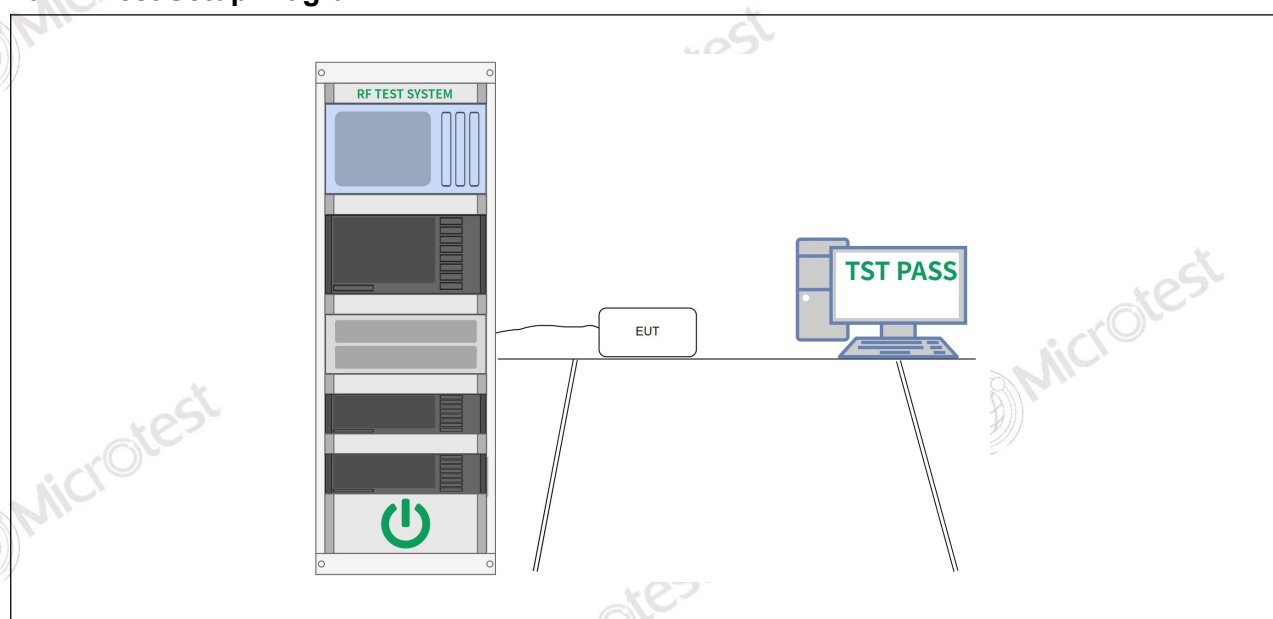
Report No.: MTi250319007-0104E4

	corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.3 °C	Humidity:	45.3 %	Atmospheric Pressure:	98 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

Report No.: MTi250319007-0104E4

6.5 Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems

TEST REPORT

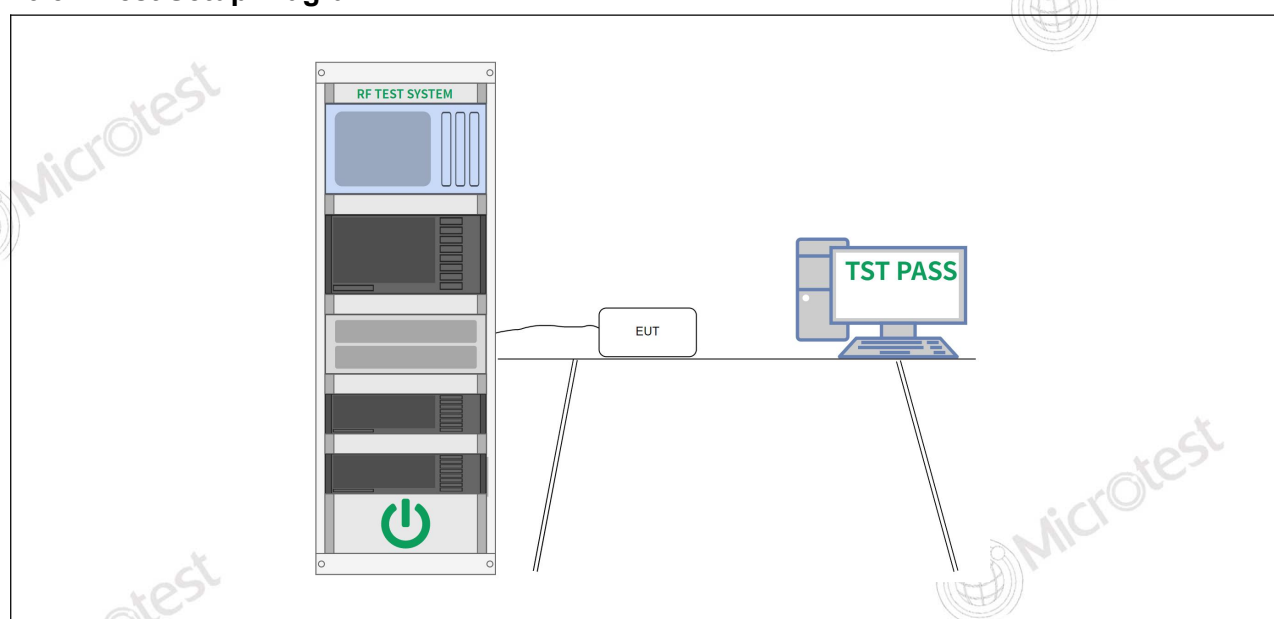
Report No.: MTi250319007-0104E4

	employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Method:	ANSI C63.10-2020, section 12.6
Procedure:	Refer to ANSI C63.10-2020, section 12.6

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.3 °C	Humidity:	45.3 %	Atmospheric Pressure:	98 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

Report No.: MTi250319007-0104E4

6.6 Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)																																																																										
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. <table border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <tr> <td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr> <tr> <td>¹ 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr> <tr> <td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr> <tr> <td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr> <tr> <td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr> <tr> <td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr> <tr> <td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr> <tr> <td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr> <tr> <td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr> <tr> <td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr> <tr> <td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr> <tr> <td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr> <tr> <td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr> <tr> <td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr> <tr> <td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr> <tr> <td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(²)</td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </tbody> </table> ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6 The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.			MHz	MHz	MHz	GHz	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	6.31175-6.31225	123-138	2200-2300	14.47-14.5	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	12.57675-12.57725	322-335.4	3600-4400	(²)	13.36-13.41			
MHz	MHz	MHz	GHz																																																																								
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15																																																																								
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46																																																																								
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75																																																																								
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12.57675-12.57725	322-335.4	3600-4400	(²)																																																																								
13.36-13.41																																																																											

TEST REPORT

Report No.: MTi250319007-0104E4

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method: ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7

Procedure:

Above 1GHz:

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low.

TEST REPORT

Report No.: MTi250319007-0104E4

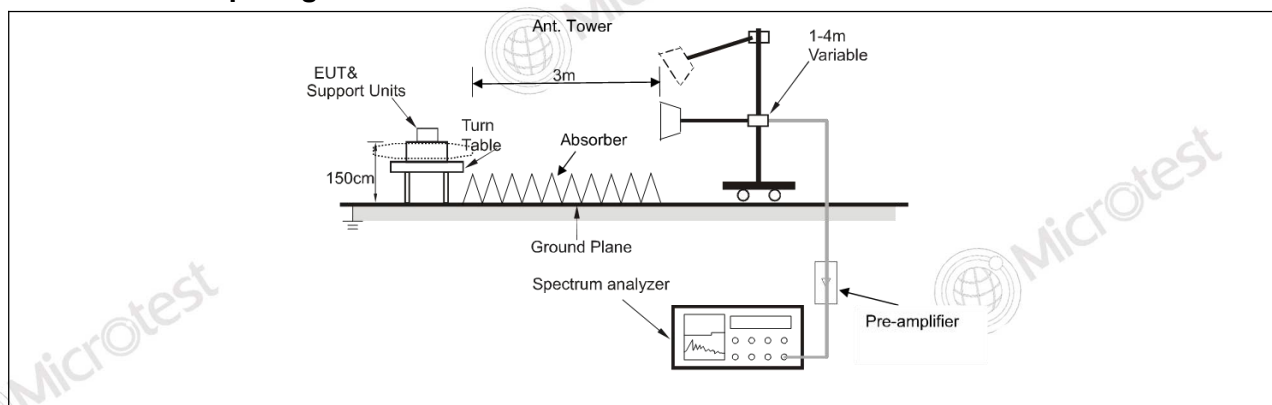
	The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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6.6.1 E.U.T. Operation:

Operating Environment:

Temperature:	23.1 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11				

6.6.2 Test Setup Diagram:



TEST REPORT

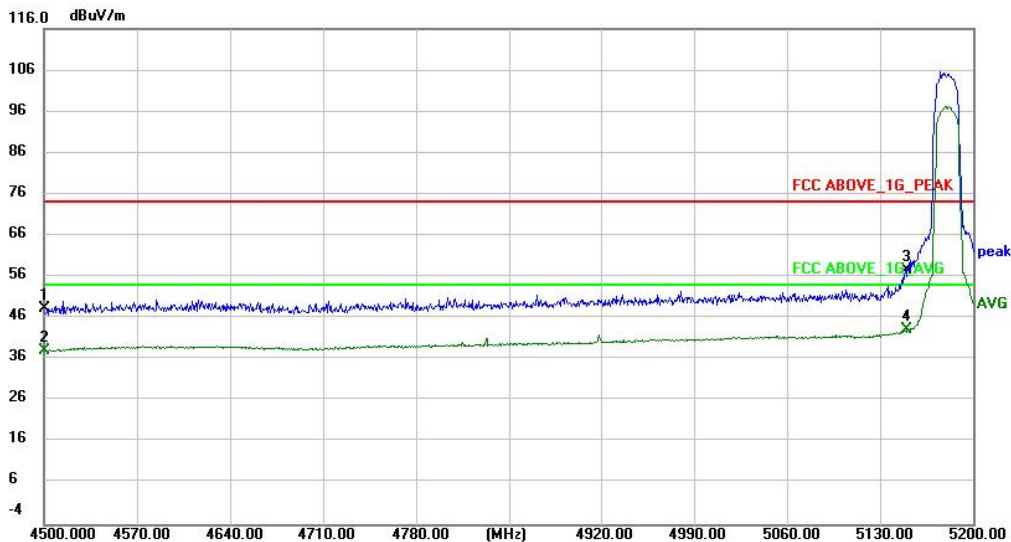
Report No.: MTi250319007-0104E4

6.6.3 Test Data:

U-NII 1

SISO(Ant0):

Mode1 / Polarization: Horizontal / CH: L

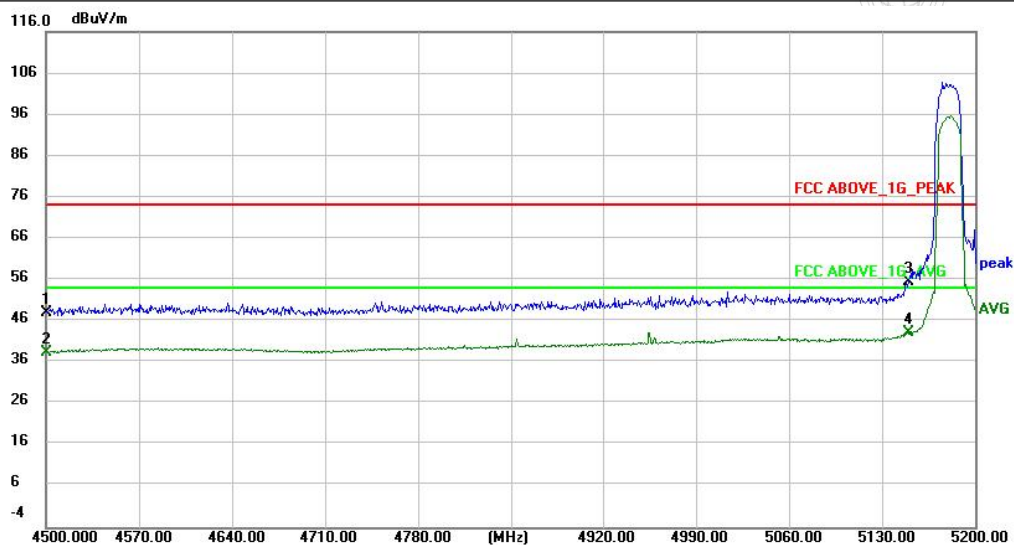


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4500.000	47.41	1.09	48.50	74.00	-25.50	peak	
2		4500.000	37.10	1.09	38.19	54.00	-15.81	AVG	
3		5150.000	54.85	2.77	57.62	74.00	-16.38	peak	
4	*	5150.000	40.39	2.77	43.16	54.00	-10.84	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Polarization: Vertical / CH: L

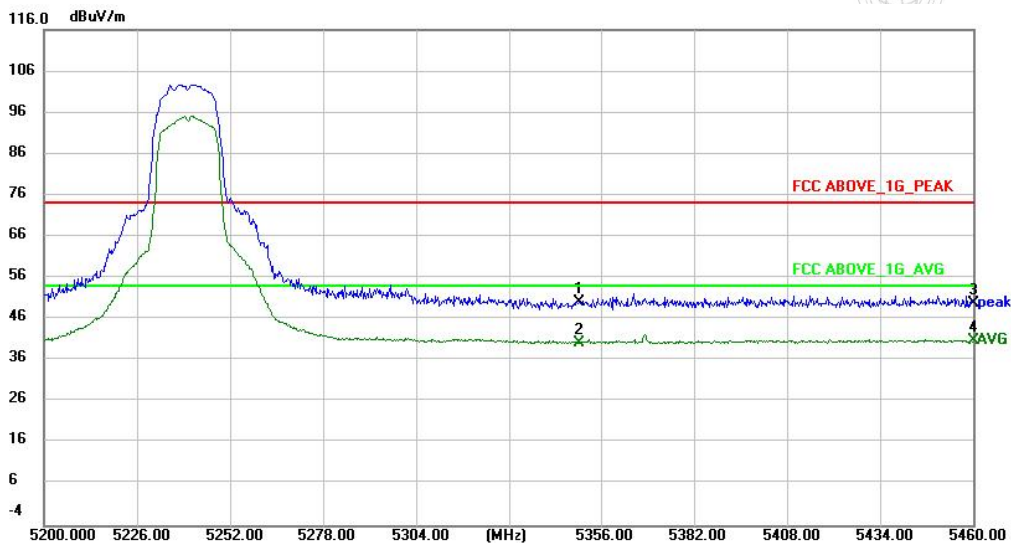


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.84	1.09	47.93	74.00	-26.07	peak	
2		4500.000	37.49	1.09	38.58	54.00	-15.42	AVG	
3		5150.000	52.65	2.77	55.42	74.00	-18.58	peak	
4	*	5150.000	40.40	2.77	43.17	54.00	-10.83	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Polarization: Horizontal / CH: H

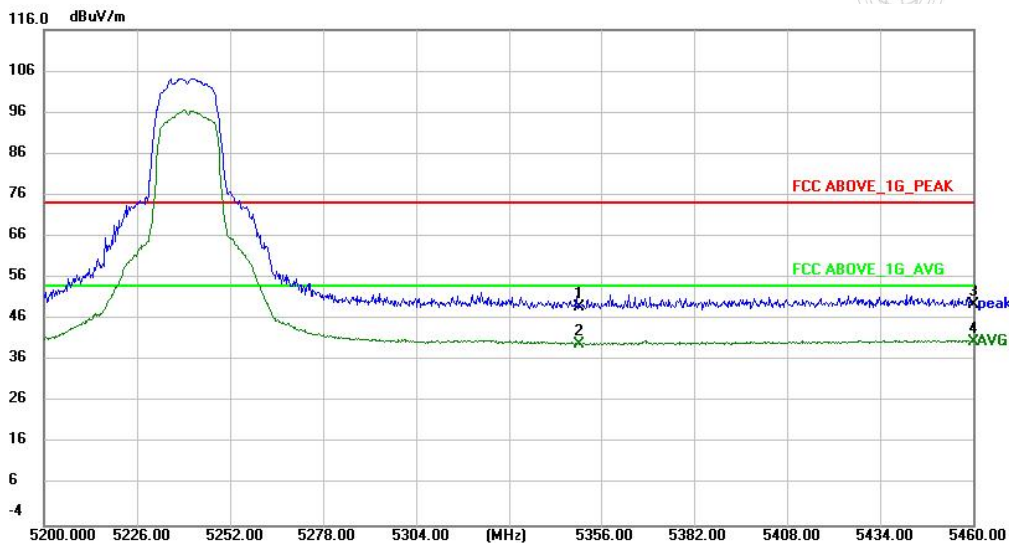


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.52	2.64	50.16	74.00	-23.84	peak	
2		5350.000	37.72	2.64	40.36	54.00	-13.64	AVG	
3		5460.000	46.91	2.98	49.89	74.00	-24.11	peak	
4	*	5460.000	37.99	2.98	40.97	54.00	-13.03	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Polarization: Vertical / CH: H

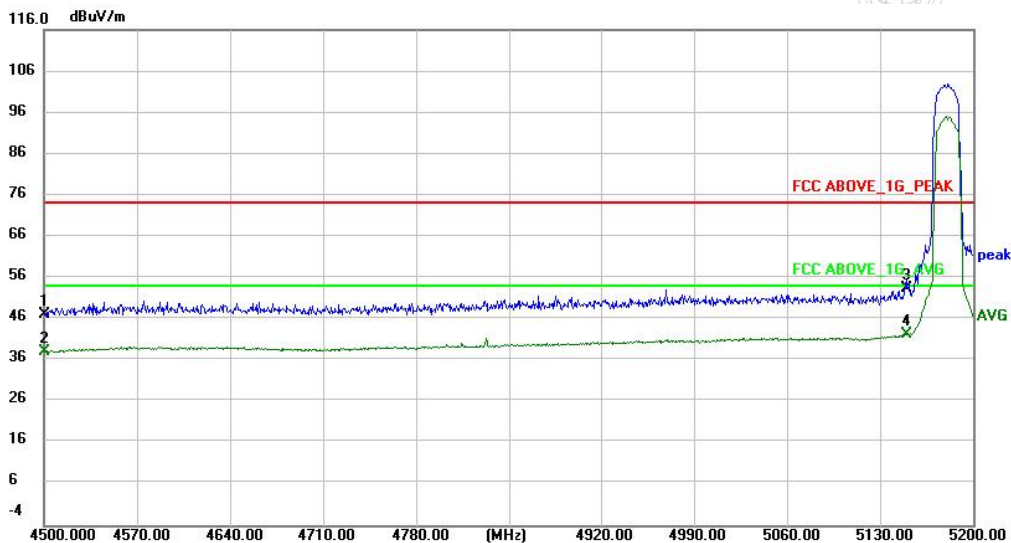


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.40	2.64	49.04	74.00	-24.96	peak	
2		5350.000	37.30	2.64	39.94	54.00	-14.06	AVG	
3		5460.000	46.54	2.98	49.52	74.00	-24.48	peak	
4	*	5460.000	37.57	2.98	40.55	54.00	-13.45	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Horizontal / CH: L

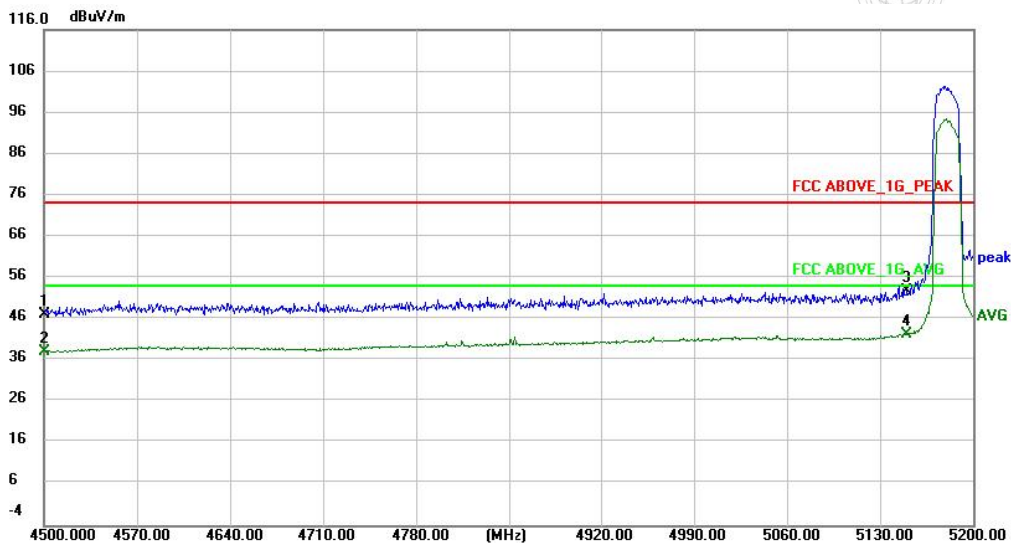


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	45.97	1.09	47.06	74.00	-26.94	peak	
2		4500.000	37.07	1.09	38.16	54.00	-15.84	AVG	
3		5150.000	50.71	2.77	53.48	74.00	-20.52	peak	
4	*	5150.000	39.50	2.77	42.27	54.00	-11.73	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Vertical / CH: L

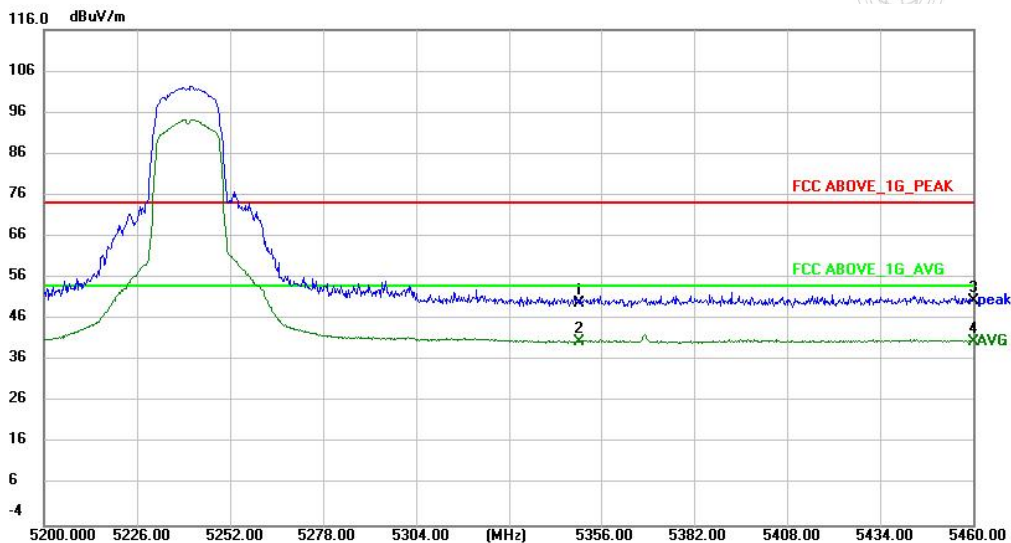


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.04	1.09	47.13	74.00	-26.87	peak	
2		4500.000	37.11	1.09	38.20	54.00	-15.80	AVG	
3		5150.000	50.13	2.77	52.90	74.00	-21.10	peak	
4	*	5150.000	39.62	2.77	42.39	54.00	-11.61	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Horizontal / CH: H

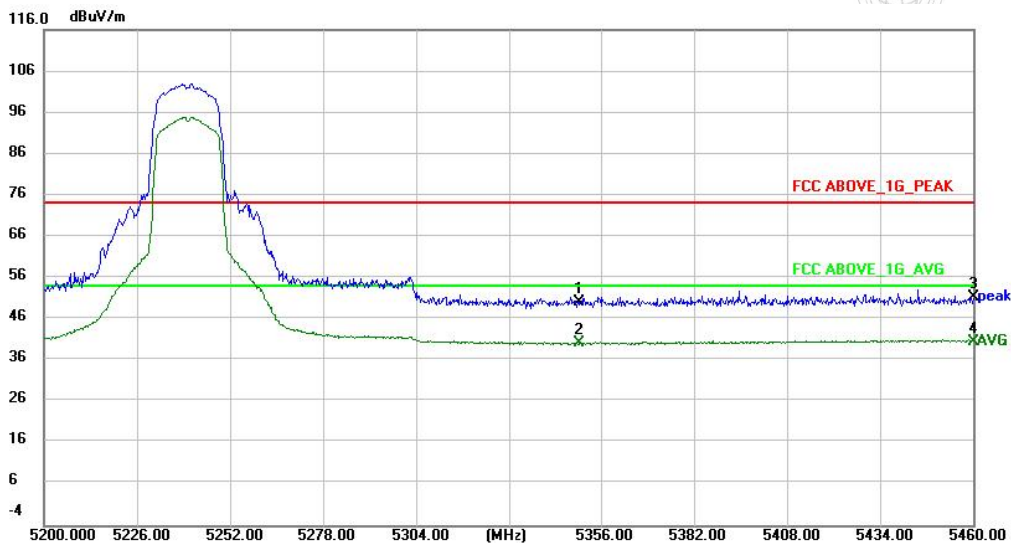


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.24	2.64	49.88	74.00	-24.12	peak	
2		5350.000	37.95	2.64	40.59	54.00	-13.41	AVG	
3		5460.000	47.33	2.98	50.31	74.00	-23.69	peak	
4	*	5460.000	37.70	2.98	40.68	54.00	-13.32	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Vertical / CH: H

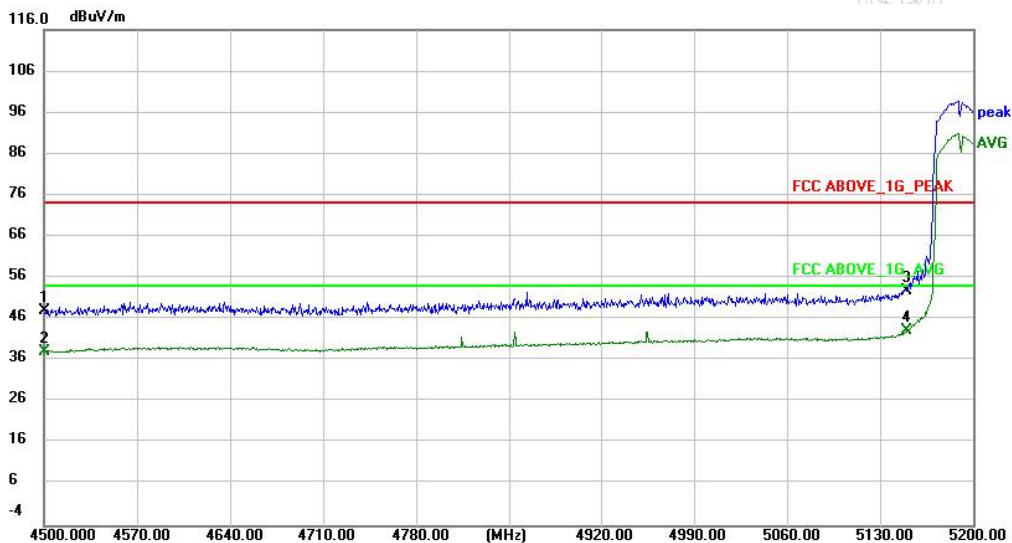


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	47.41	2.64	50.05	74.00	-23.95	peak	
2		5350.000	37.48	2.64	40.12	54.00	-13.88	AVG	
3		5460.000	48.22	2.98	51.20	74.00	-22.80	peak	
4	*	5460.000	37.58	2.98	40.56	54.00	-13.44	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Horizontal / CH: L

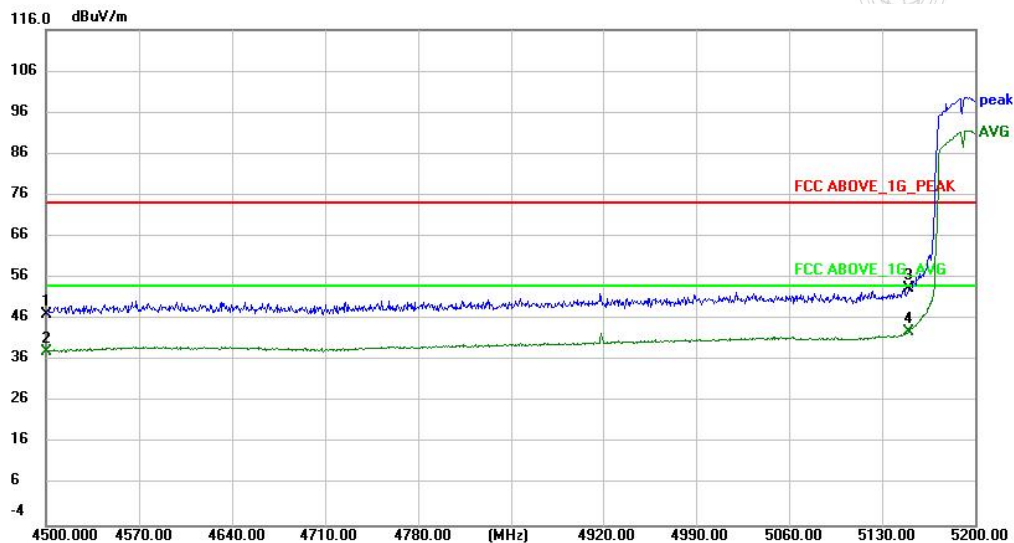


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.95	1.09	48.04	74.00	-25.96	peak	
2		4500.000	36.94	1.09	38.03	54.00	-15.97	AVG	
3		5150.000	50.19	2.77	52.96	74.00	-21.04	peak	
4	*	5150.000	40.54	2.77	43.31	54.00	-10.69	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Vertical / CH: L

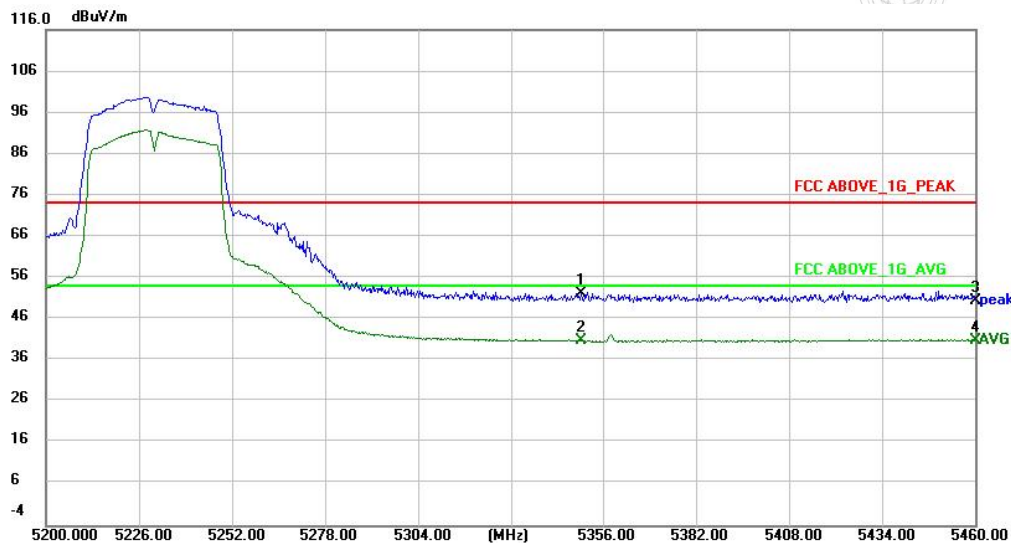


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.09	1.09	47.18	74.00	-26.82	peak	
2		4500.000	37.18	1.09	38.27	54.00	-15.73	AVG	
3		5150.000	50.76	2.77	53.53	74.00	-20.47	peak	
4	*	5150.000	40.31	2.77	43.08	54.00	-10.92	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Horizontal / CH: H

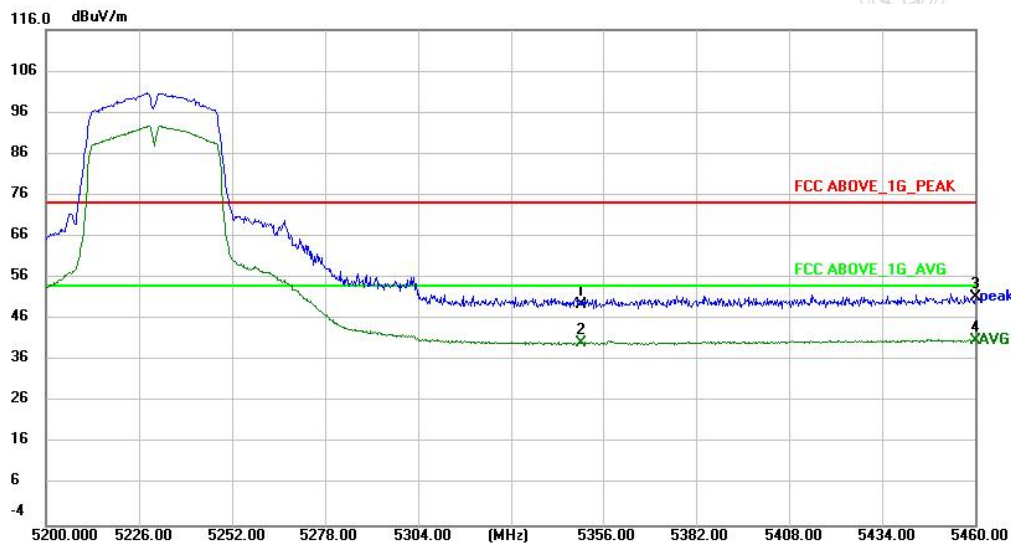


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	49.68	2.64	52.32	74.00	-21.68	peak	
2		5350.000	38.28	2.64	40.92	54.00	-13.08	AVG	
3		5460.000	47.54	2.98	50.52	74.00	-23.48	peak	
4	*	5460.000	38.01	2.98	40.99	54.00	-13.01	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Vertical / CH: H

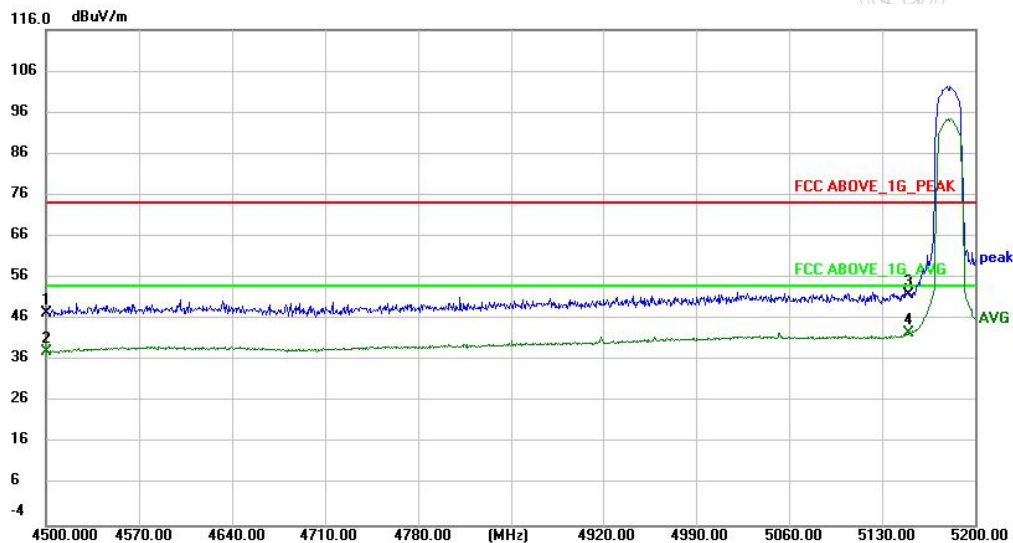


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.88	2.64	49.52	74.00	-24.48	peak	
2		5350.000	37.47	2.64	40.11	54.00	-13.89	AVG	
3		5460.000	48.22	2.98	51.20	74.00	-22.80	peak	
4	*	5460.000	37.82	2.98	40.80	54.00	-13.20	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Horizontal / CH: L

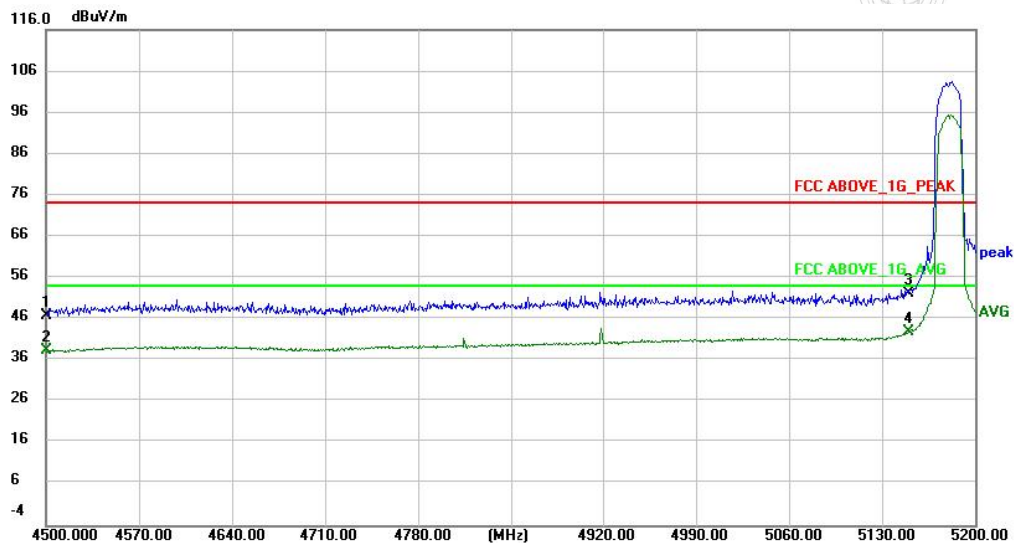


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.31	1.09	47.40	74.00	-26.60	peak	
2		4500.000	37.00	1.09	38.09	54.00	-15.91	AVG	
3		5150.000	49.14	2.77	51.91	74.00	-22.09	peak	
4	*	5150.000	39.98	2.77	42.75	54.00	-11.25	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Vertical / CH: L

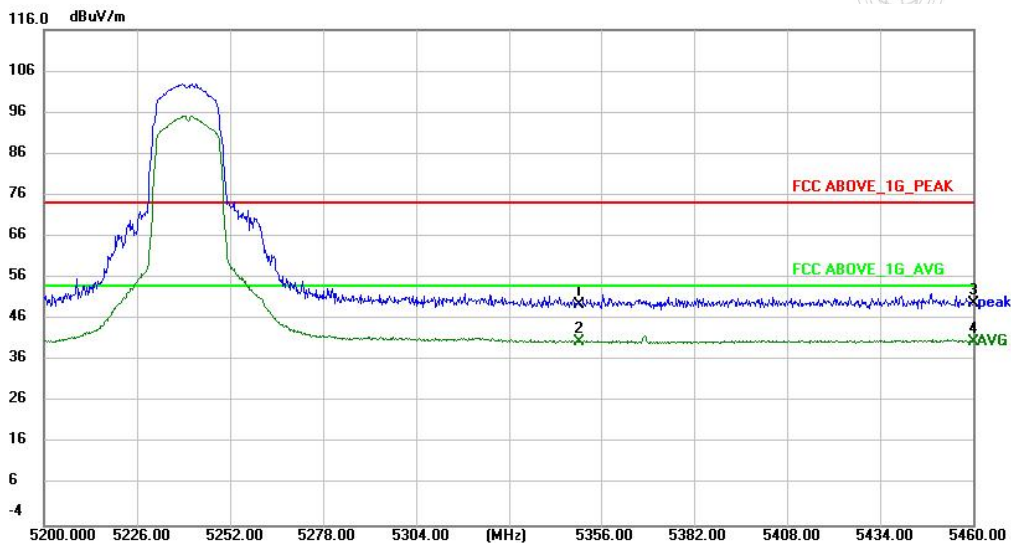


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	45.82	1.09	46.91	74.00	-27.09	peak	
2		4500.000	37.29	1.09	38.38	54.00	-15.62	AVG	
3		5150.000	49.63	2.77	52.40	74.00	-21.60	peak	
4	*	5150.000	40.24	2.77	43.01	54.00	-10.99	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Horizontal / CH: H

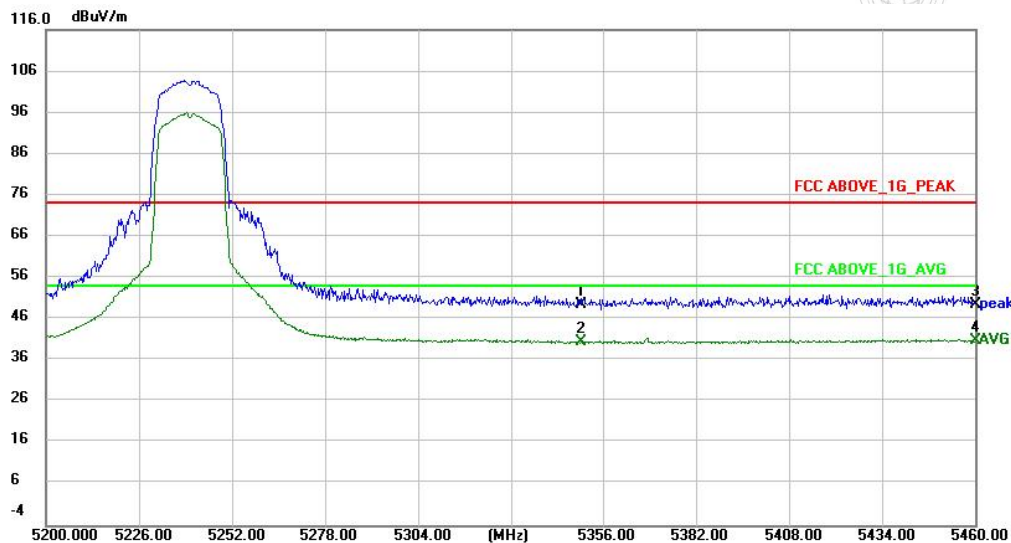


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	46.79	2.64	49.43	74.00	-24.57	peak	
2		5350.000	38.02	2.64	40.66	54.00	-13.34	AVG	
3		5460.000	46.81	2.98	49.79	74.00	-24.21	peak	
4	*	5460.000	37.70	2.98	40.68	54.00	-13.32	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Vertical / CH: H

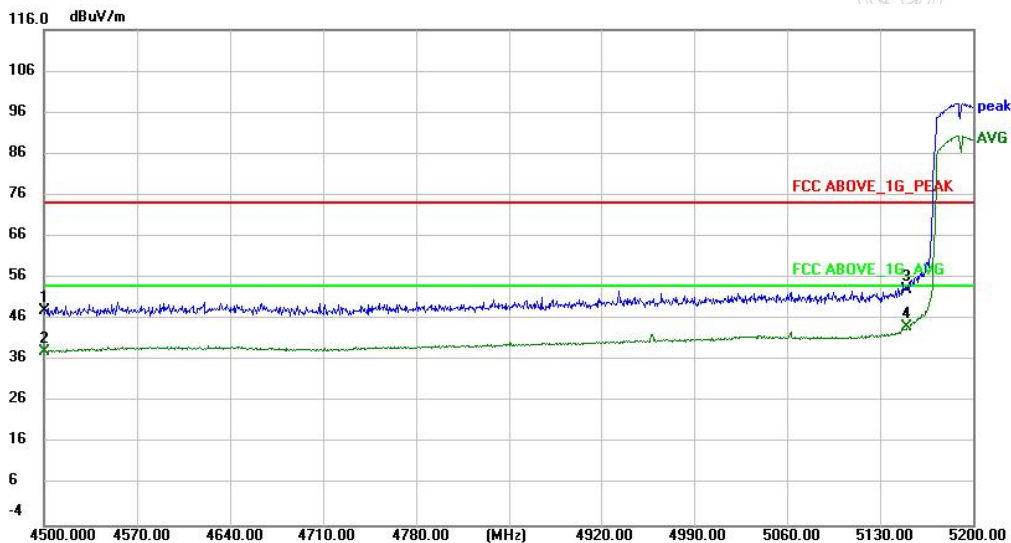


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.87	2.64	49.51	74.00	-24.49	peak	
2		5350.000	37.77	2.64	40.41	54.00	-13.59	AVG	
3		5460.000	46.70	2.98	49.68	74.00	-24.32	peak	
4	*	5460.000	37.97	2.98	40.95	54.00	-13.05	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Horizontal / CH: L

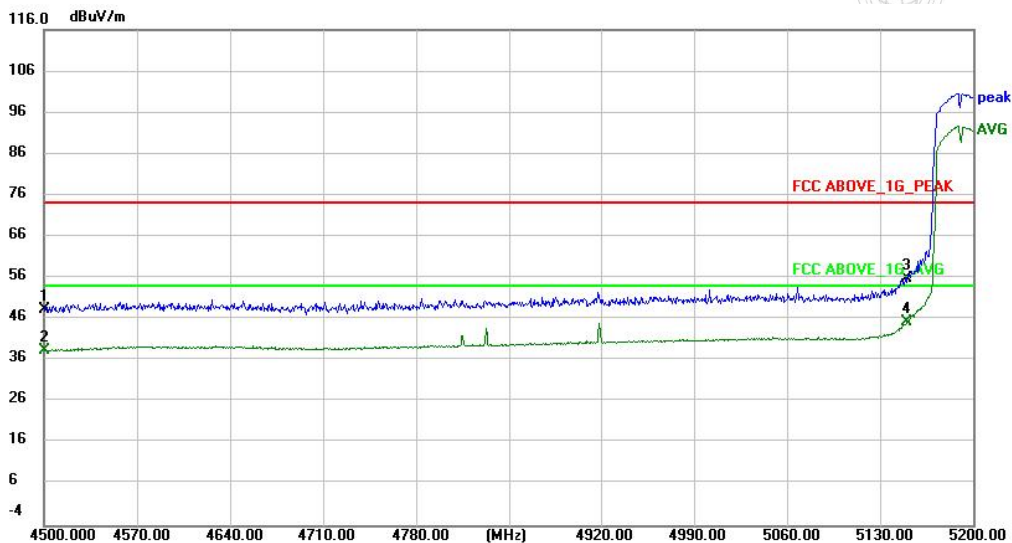


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.83	1.09	47.92	74.00	-26.08	peak	
2		4500.000	37.20	1.09	38.29	54.00	-15.71	AVG	
3		5150.000	50.25	2.77	53.02	74.00	-20.98	peak	
4	*	5150.000	41.33	2.77	44.10	54.00	-9.90	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Vertical / CH: L

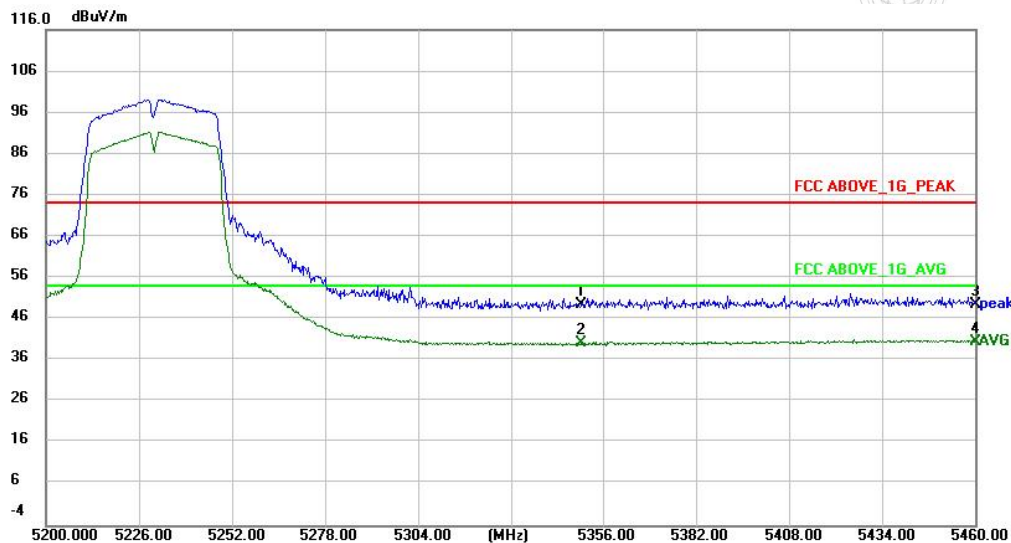


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	47.21	1.09	48.30	74.00	-25.70	peak	
2		4500.000	37.38	1.09	38.47	54.00	-15.53	AVG	
3		5150.000	52.94	2.77	55.71	74.00	-18.29	peak	
4	*	5150.000	42.68	2.77	45.45	54.00	-8.55	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Horizontal / CH: H

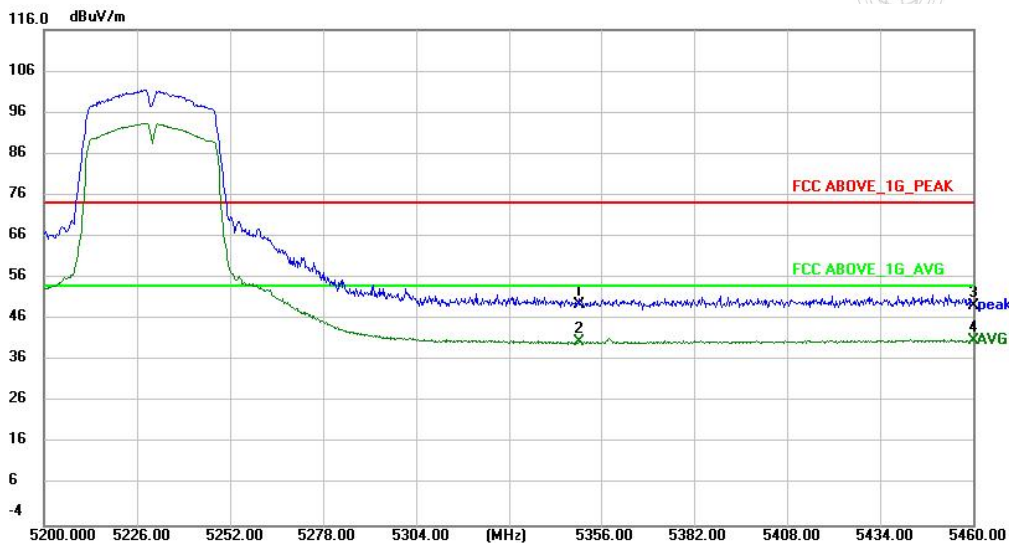


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.82	2.64	49.46	74.00	-24.54	peak	
2		5350.000	37.62	2.64	40.26	54.00	-13.74	AVG	
3		5460.000	46.70	2.98	49.68	74.00	-24.32	peak	
4	*	5460.000	37.63	2.98	40.61	54.00	-13.39	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Vertical / CH: H

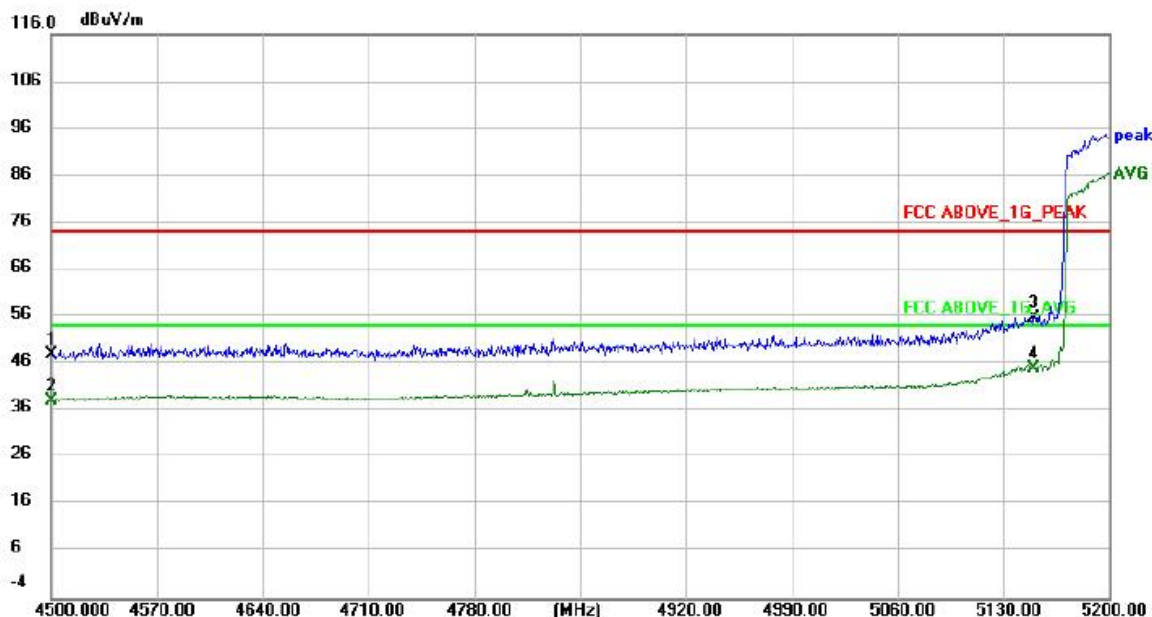


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	46.94	2.64	49.58	74.00	-24.42	peak	
2		5350.000	37.80	2.64	40.44	54.00	-13.56	AVG	
3		5460.000	46.41	2.98	49.39	74.00	-24.61	peak	
4	*	5460.000	37.83	2.98	40.81	54.00	-13.19	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Horizontal / CH: L

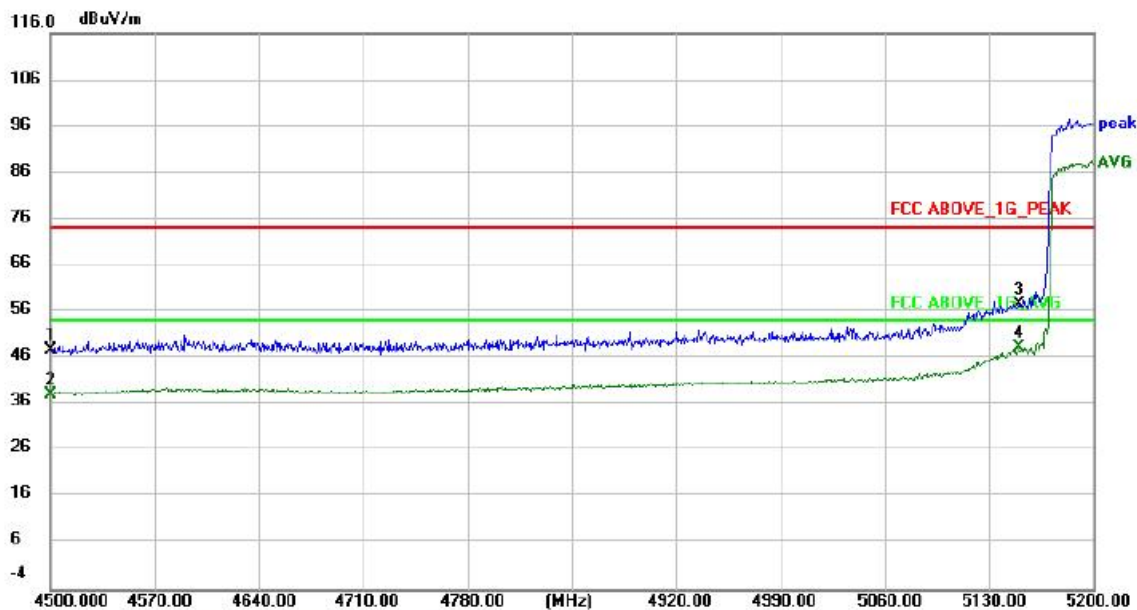


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.89	1.09	47.98	74.00	-26.02	peak	
2		4500.000	37.19	1.09	38.28	54.00	-15.72	AVG	
3		5150.000	53.21	2.77	55.98	74.00	-18.02	peak	
4	*	5150.000	42.37	2.77	45.14	54.00	-8.86	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Vertical / CH: L

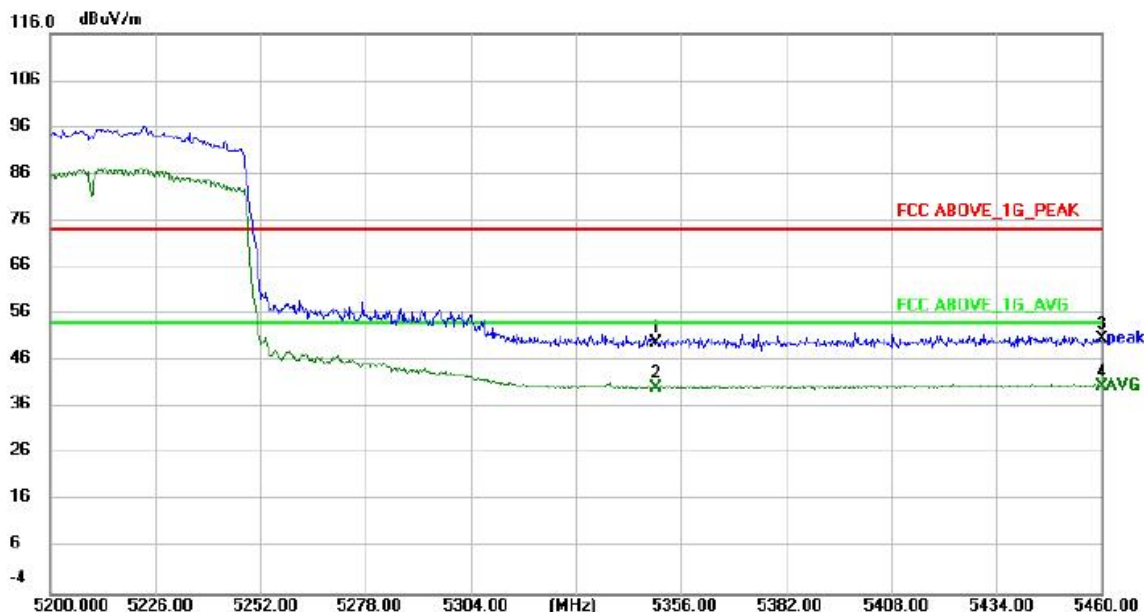


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4500.000	46.63	1.09	47.72	74.00	-26.28	peak
2		4500.000	37.21	1.09	38.30	54.00	-15.70	AVG
3		5150.000	54.81	2.77	57.58	74.00	-16.42	peak
4	*	5150.000	45.48	2.77	48.25	54.00	-5.75	AVG

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Horizontal / CH: H

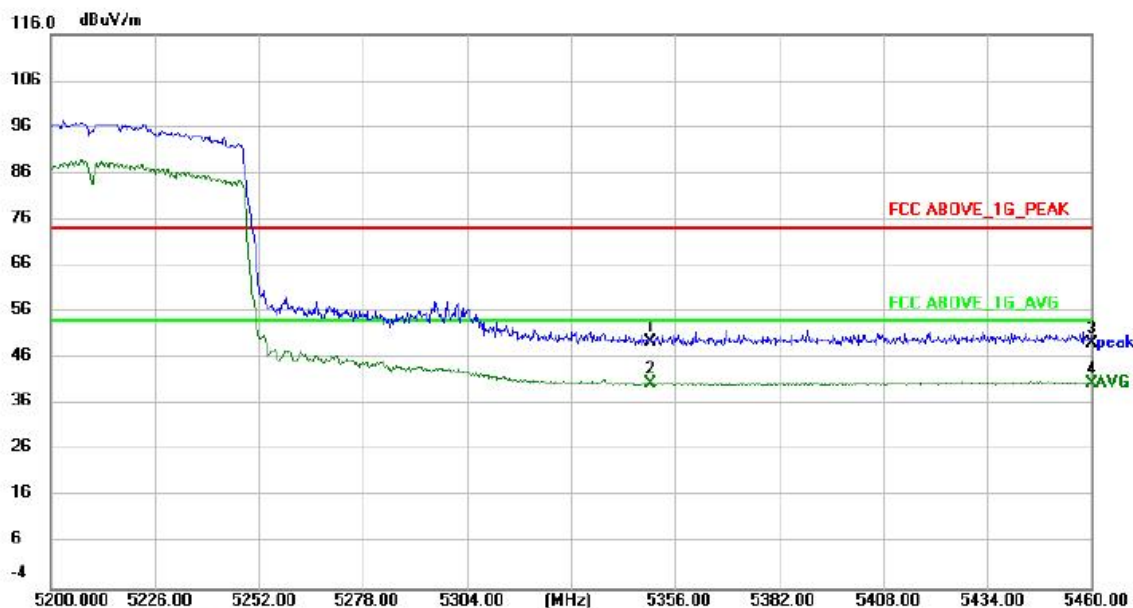


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5350.000	47.13	2.64	49.77	74.00	-24.23	peak	
2		5350.000	37.59	2.64	40.23	54.00	-13.77	AVG	
3		5460.000	47.73	2.98	50.71	74.00	-23.29	peak	
4	*	5460.000	37.51	2.98	40.49	54.00	-13.51	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Vertical / CH: H



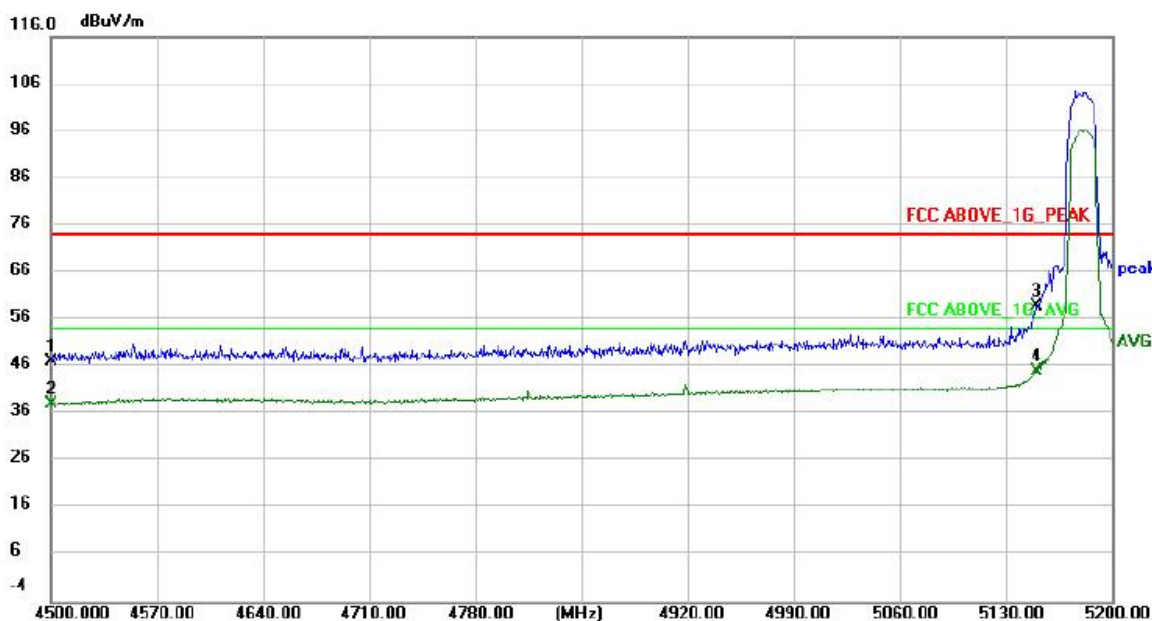
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.03	2.64	49.67	74.00	-24.33	peak	
2		5350.000	37.84	2.64	40.48	54.00	-13.52	AVG	
3		5460.000	46.34	2.98	49.32	74.00	-24.68	peak	
4	*	5460.000	37.64	2.98	40.62	54.00	-13.38	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

SISO(Ant1):

Mode1 / Polarization: Horizontal / CH: L

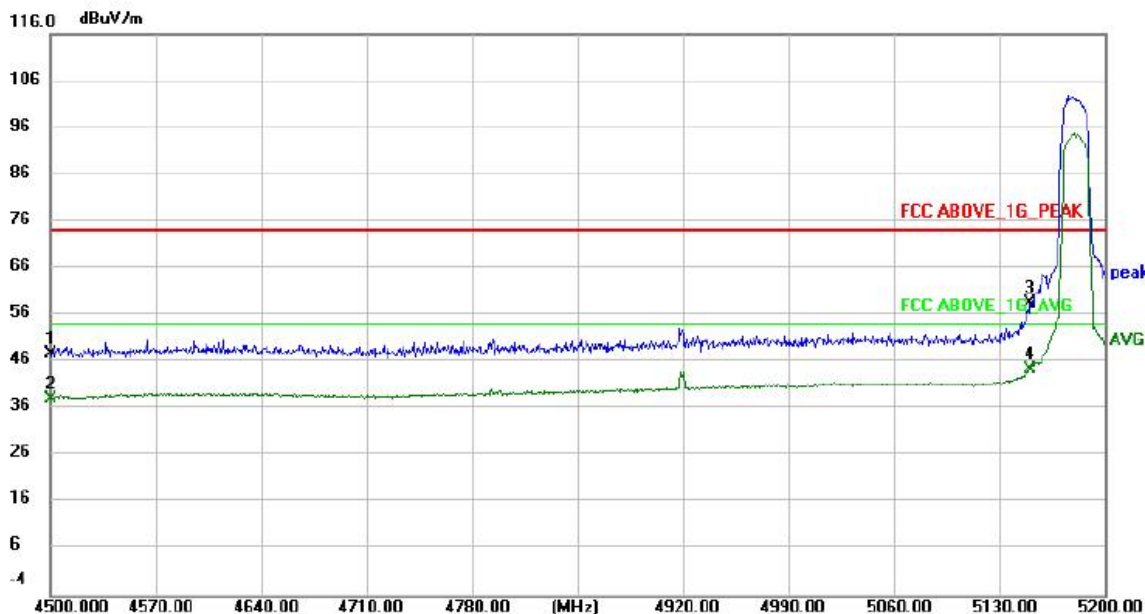


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.11	1.09	47.20	74.00	-26.80	peak	
2		4500.000	36.94	1.09	38.03	54.00	-15.97	AVG	
3		5150.000	56.06	2.77	58.83	74.00	-15.17	peak	
4	*	5150.000	42.34	2.77	45.11	54.00	-8.89	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Polarization: Vertical / CH: L

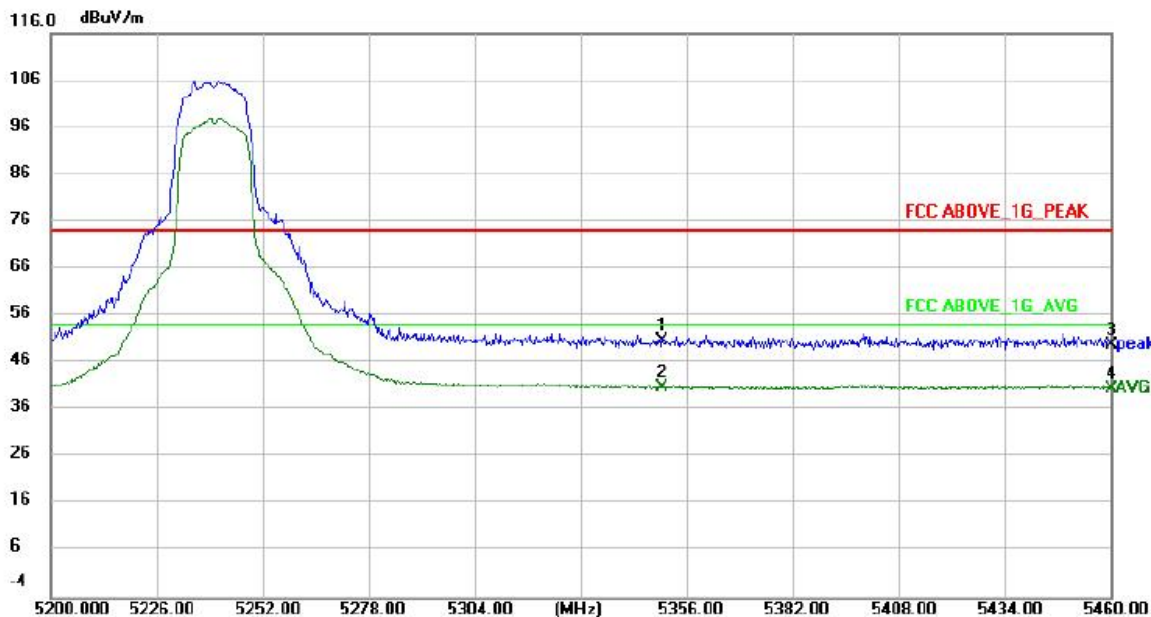


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.67	1.09	47.76	74.00	-26.24	peak	
2		4500.000	37.01	1.09	38.10	54.00	-15.90	AVG	
3		5150.000	55.69	2.77	58.46	74.00	-15.54	peak	
4	*	5150.000	41.72	2.77	44.49	54.00	-9.51	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Polarization: Horizontal / CH: H

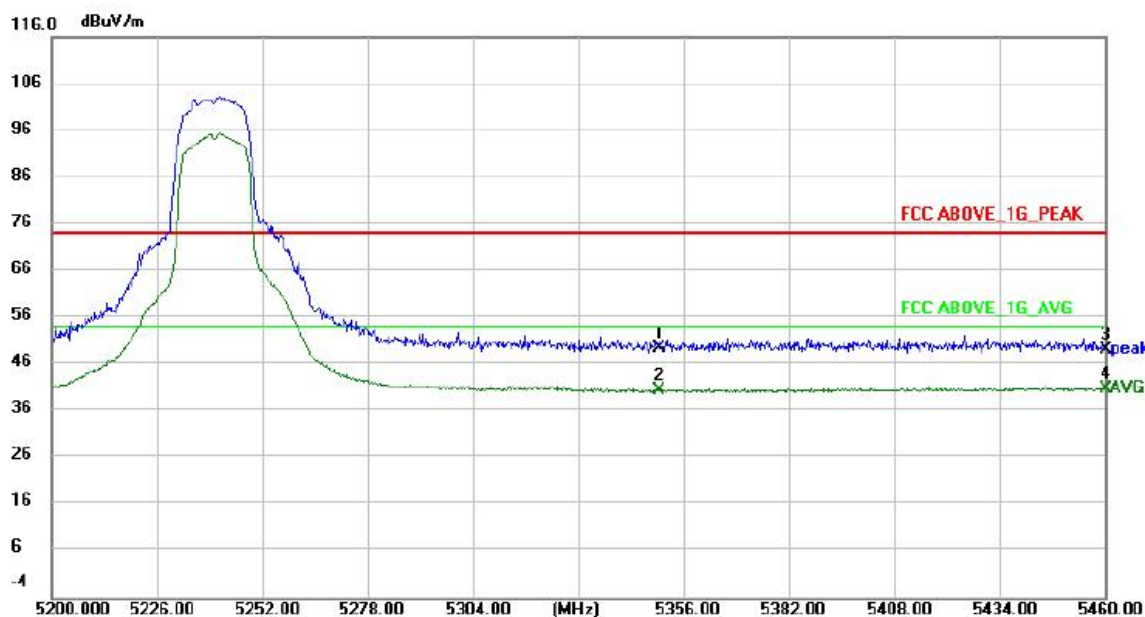


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	48.14	2.64	50.78	74.00	-23.22	peak	
2	*	5350.000	38.11	2.64	40.75	54.00	-13.25	AVG	
3		5460.000	46.78	2.98	49.76	74.00	-24.24	peak	
4		5460.000	37.71	2.98	40.69	54.00	-13.31	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode1 / Polarization: Vertical / CH: H

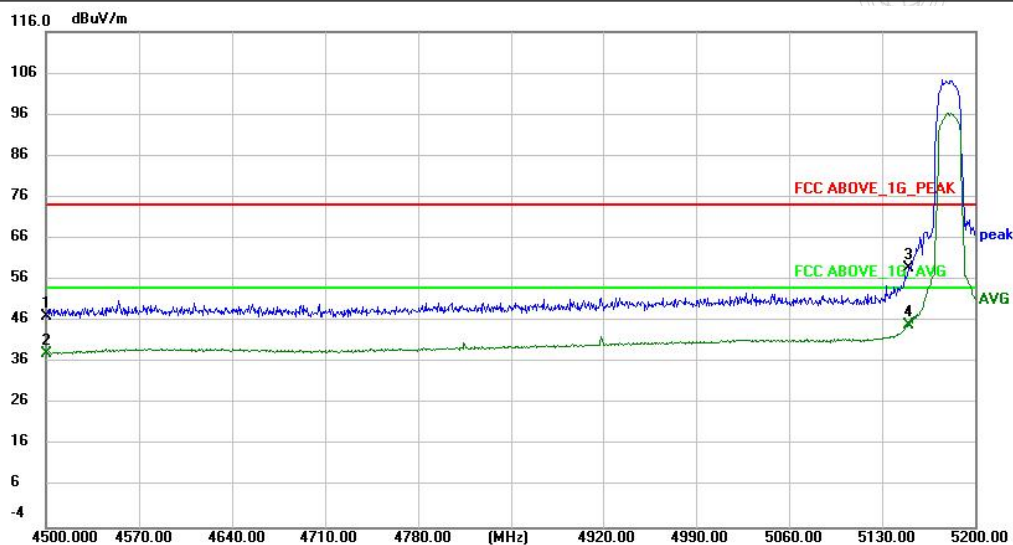


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.78	2.64	49.42	74.00	-24.58	peak	
2		5350.000	37.99	2.64	40.63	54.00	-13.37	AVG	
3		5460.000	46.23	2.98	49.21	74.00	-24.79	peak	
4	*	5460.000	37.82	2.98	40.80	54.00	-13.20	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Horizontal / CH: L

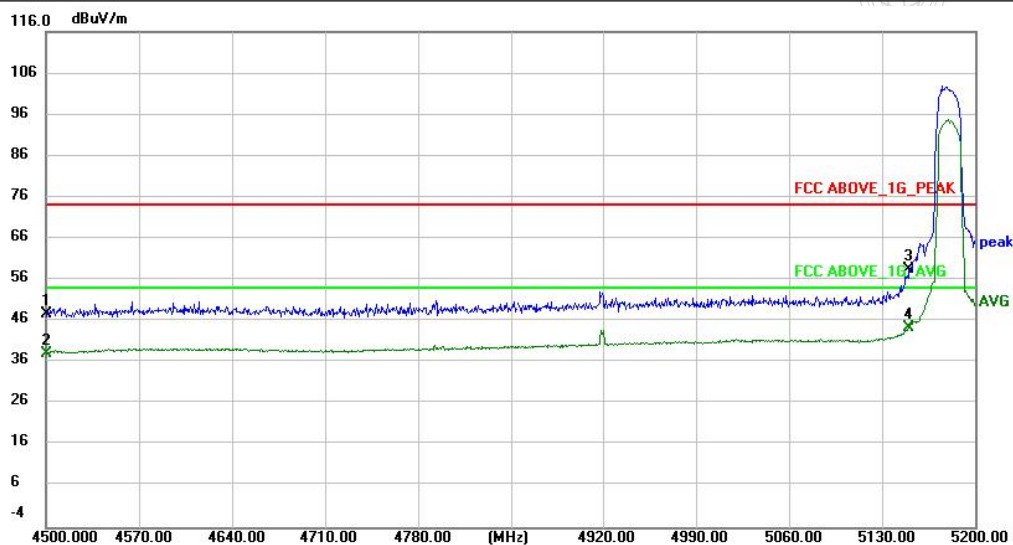


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.11	1.09	47.20	74.00	-26.80	peak	
2		4500.000	36.94	1.09	38.03	54.00	-15.97	AVG	
3		5150.000	56.06	2.77	58.83	74.00	-15.17	peak	
4	*	5150.000	42.34	2.77	45.11	54.00	-8.89	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Vertical / CH: L

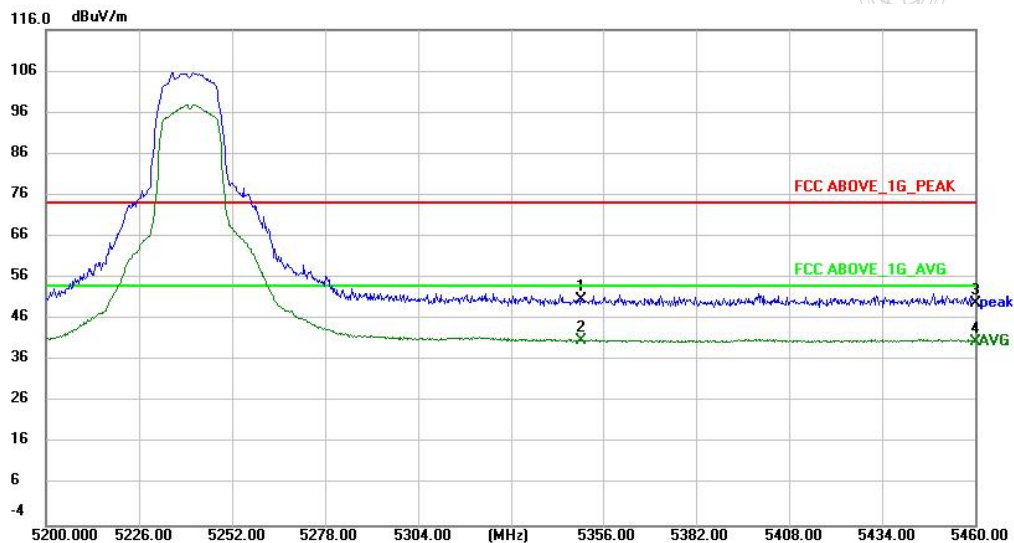


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.67	1.09	47.76	74.00	-26.24	peak	
2		4500.000	37.01	1.09	38.10	54.00	-15.90	AVG	
3		5150.000	55.69	2.77	58.46	74.00	-15.54	peak	
4	*	5150.000	41.72	2.77	44.49	54.00	-9.51	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Horizontal / CH: H

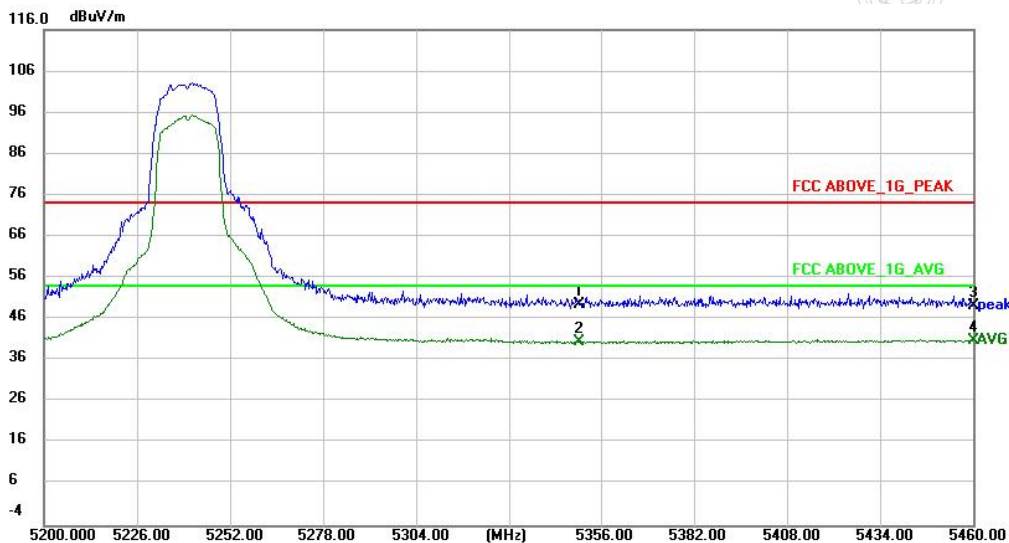


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	48.14	2.64	50.78	74.00	-23.22	peak	
2	*	5350.000	38.11	2.64	40.75	54.00	-13.25	AVG	
3		5460.000	46.78	2.98	49.76	74.00	-24.24	peak	
4		5460.000	37.71	2.98	40.69	54.00	-13.31	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode2 / Polarization: Vertical / CH: H

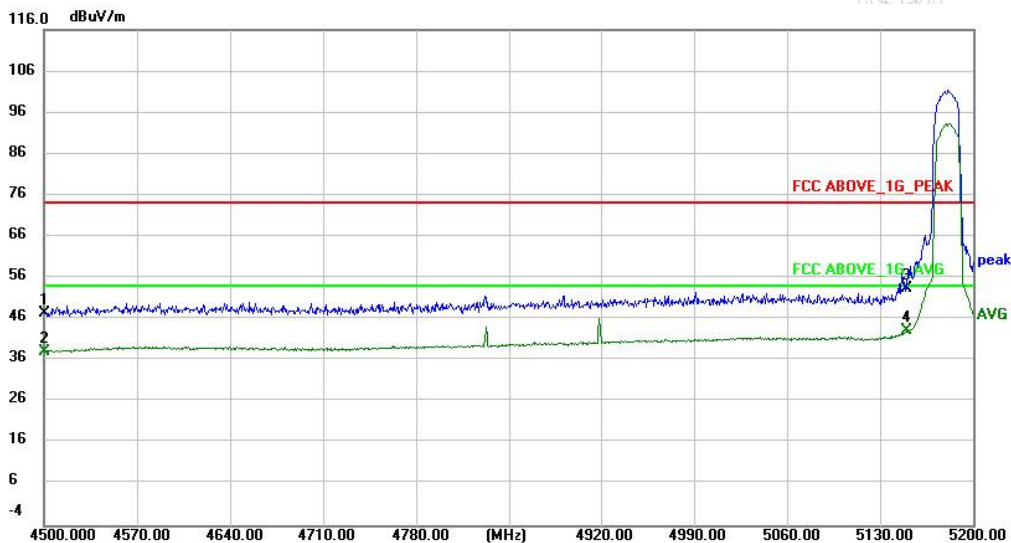


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.78	2.64	49.42	74.00	-24.58	peak	
2		5350.000	37.99	2.64	40.63	54.00	-13.37	AVG	
3		5460.000	46.23	2.98	49.21	74.00	-24.79	peak	
4	*	5460.000	37.82	2.98	40.80	54.00	-13.20	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Horizontal / CH: L

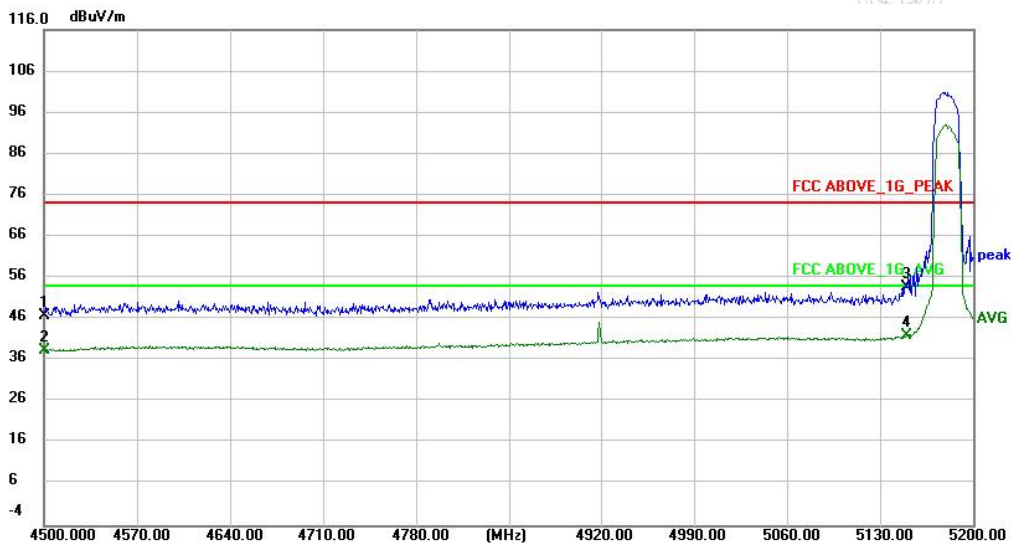


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.48	1.09	47.57	74.00	-26.43	peak	
2		4500.000	37.03	1.09	38.12	54.00	-15.88	AVG	
3		5150.000	50.69	2.77	53.46	74.00	-20.54	peak	
4	*	5150.000	40.34	2.77	43.11	54.00	-10.89	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Vertical / CH: L

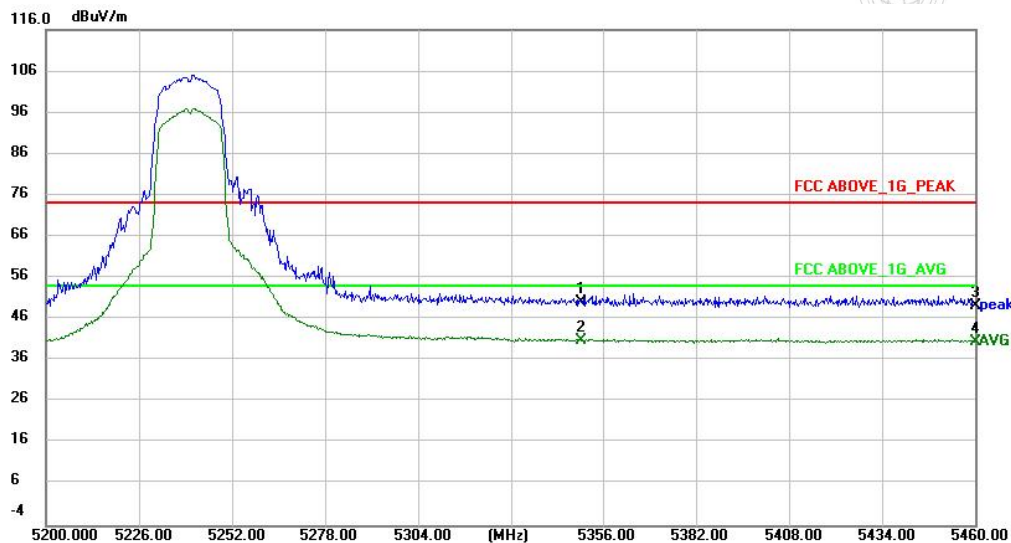


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		4500.000	45.85	1.09	46.94	74.00	-27.06	peak	
2		4500.000	37.28	1.09	38.37	54.00	-15.63	AVG	
3		5150.000	51.08	2.77	53.85	74.00	-20.15	peak	
4	*	5150.000	39.41	2.77	42.18	54.00	-11.82	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Horizontal / CH: H

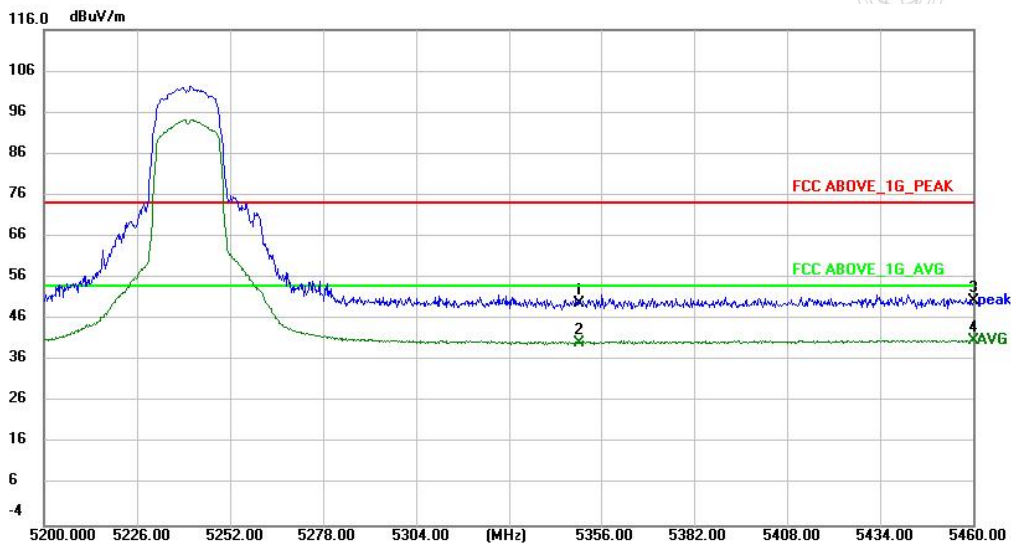


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.45	2.64	50.09	74.00	-23.91	peak	
2	*	5350.000	38.25	2.64	40.89	54.00	-13.11	AVG	
3		5460.000	46.20	2.98	49.18	74.00	-24.82	peak	
4		5460.000	37.70	2.98	40.68	54.00	-13.32	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode3 / Polarization: Vertical / CH: H

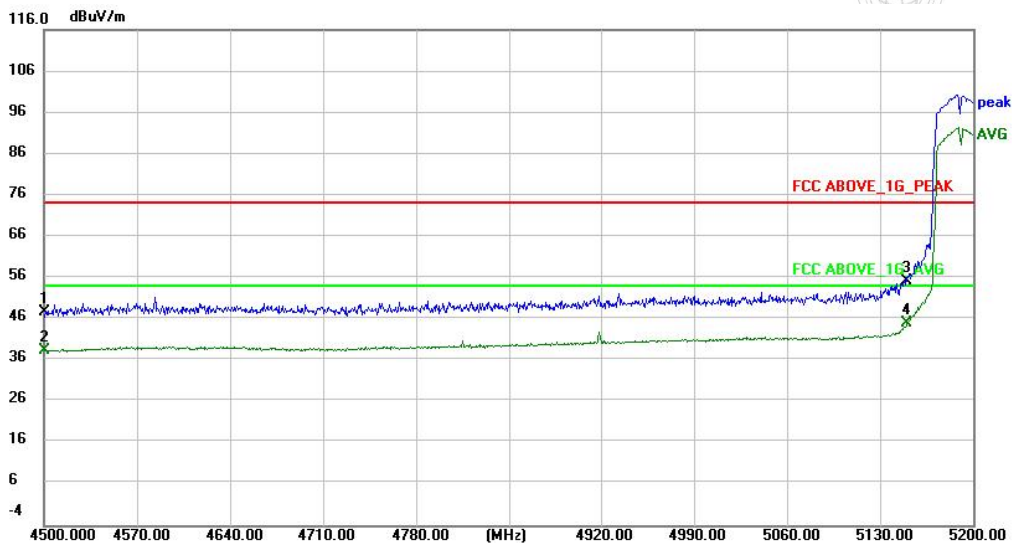


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	47.18	2.64	49.82	74.00	-24.18	peak	
2		5350.000	37.76	2.64	40.40	54.00	-13.60	AVG	
3		5460.000	47.39	2.98	50.37	74.00	-23.63	peak	
4	*	5460.000	37.73	2.98	40.71	54.00	-13.29	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Horizontal / CH: L

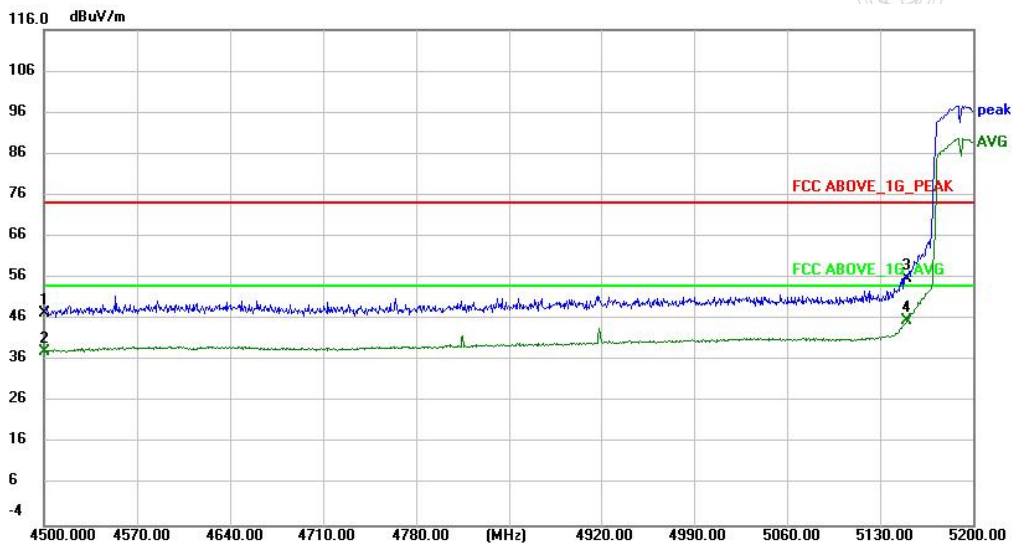


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.61	1.09	47.70	74.00	-26.30	peak	
2		4500.000	37.24	1.09	38.33	54.00	-15.67	AVG	
3		5150.000	52.51	2.77	55.28	74.00	-18.72	peak	
4	*	5150.000	42.27	2.77	45.04	54.00	-8.96	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Vertical / CH: L

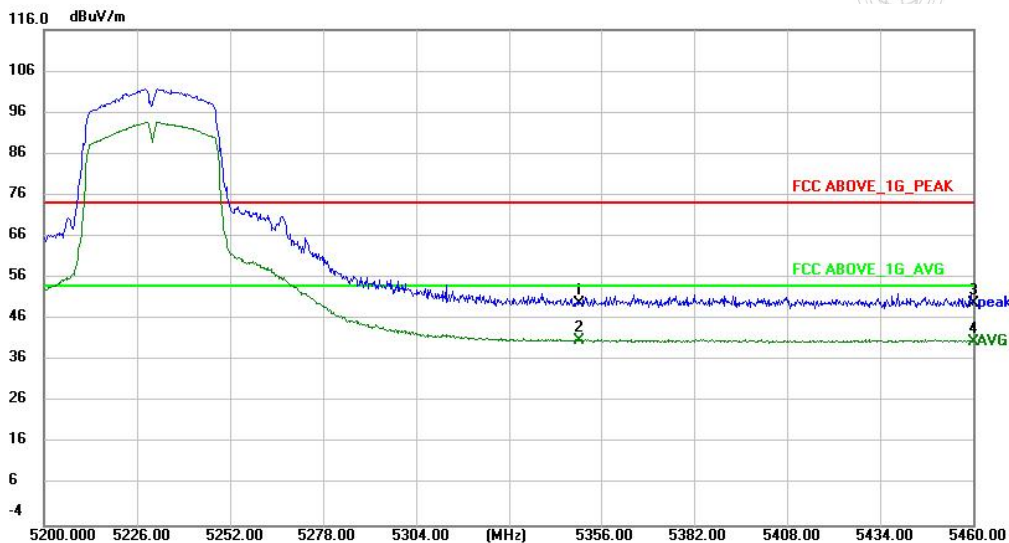


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.26	1.09	47.35	74.00	-26.65	peak	
2		4500.000	37.10	1.09	38.19	54.00	-15.81	AVG	
3		5150.000	52.97	2.77	55.74	74.00	-18.26	peak	
4	*	5150.000	42.83	2.77	45.60	54.00	-8.40	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Horizontal / CH: H

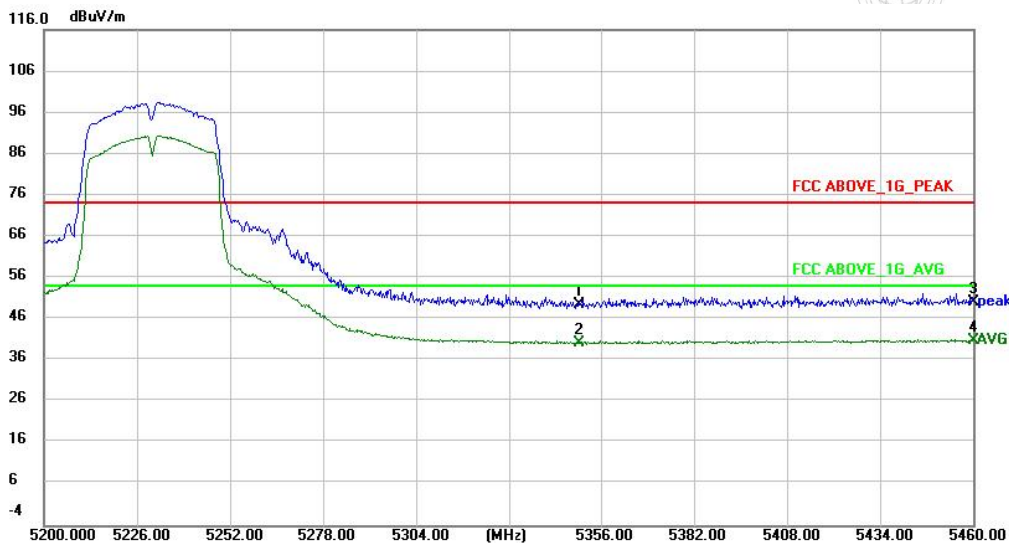


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.07	2.64	49.71	74.00	-24.29	peak	
2	*	5350.000	38.14	2.64	40.78	54.00	-13.22	AVG	
3		5460.000	46.72	2.98	49.70	74.00	-24.30	peak	
4		5460.000	37.70	2.98	40.68	54.00	-13.32	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode4 / Polarization: Vertical / CH: H

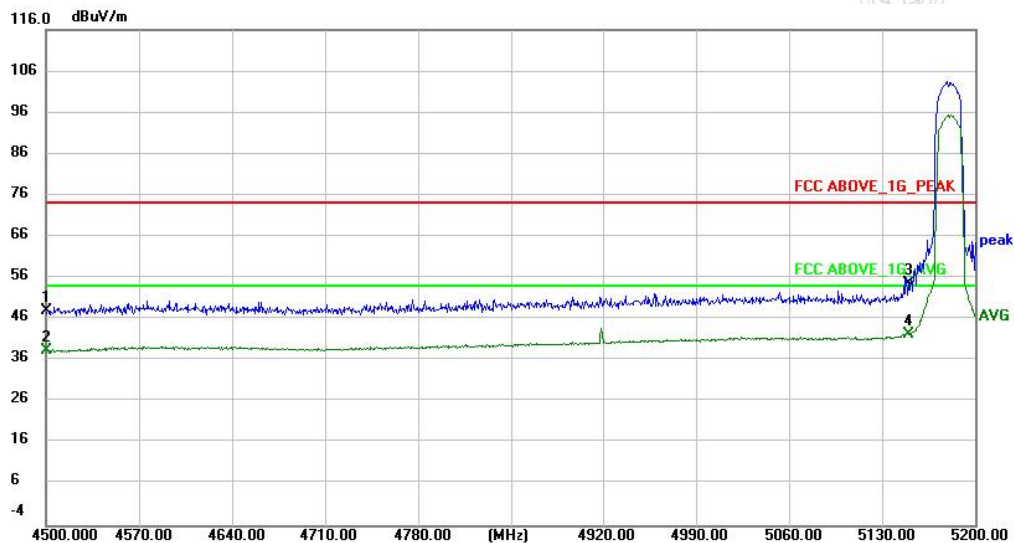


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	46.83	2.64	49.47	74.00	-24.53	peak	
2		5350.000	37.70	2.64	40.34	54.00	-13.66	AVG	
3		5460.000	47.04	2.98	50.02	74.00	-23.98	peak	
4	*	5460.000	37.77	2.98	40.75	54.00	-13.25	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Horizontal / CH: L

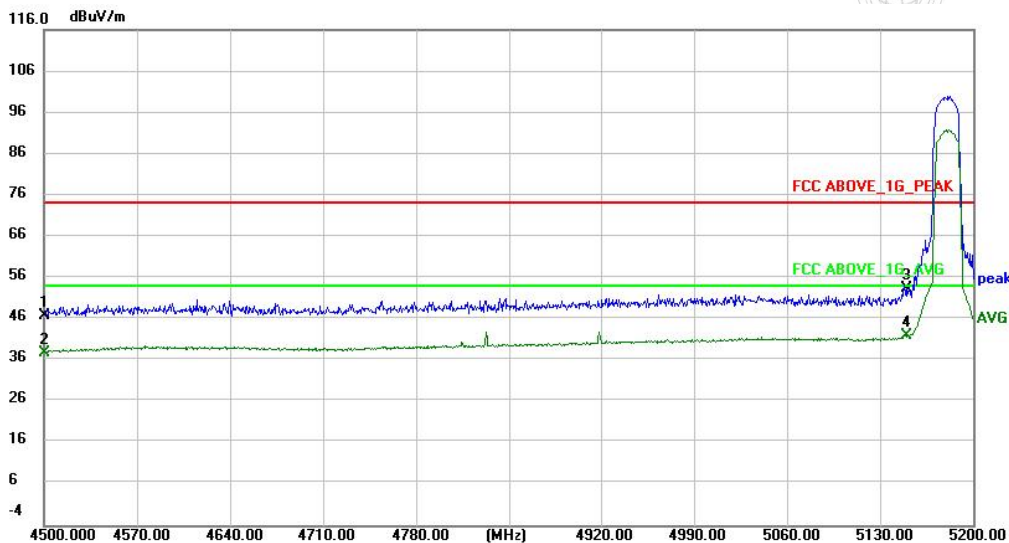


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.88	1.09	47.97	74.00	-26.03	peak	
2		4500.000	37.24	1.09	38.33	54.00	-15.67	AVG	
3		5150.000	51.93	2.77	54.70	74.00	-19.30	peak	
4	*	5150.000	39.65	2.77	42.42	54.00	-11.58	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Vertical / CH: L

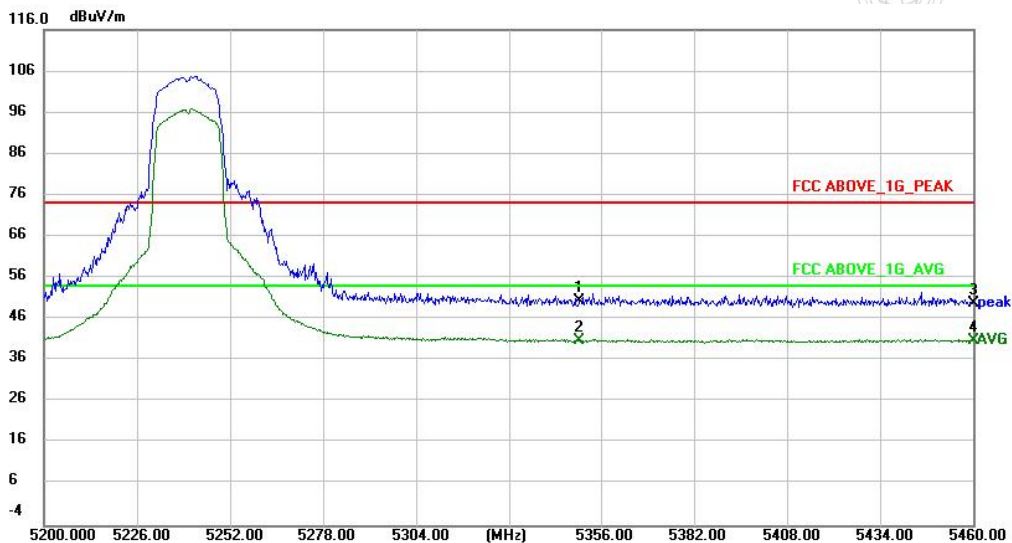


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	45.87	1.09	46.96	74.00	-27.04	peak	
2		4500.000	36.88	1.09	37.97	54.00	-16.03	AVG	
3		5150.000	50.61	2.77	53.38	74.00	-20.62	peak	
4	*	5150.000	39.20	2.77	41.97	54.00	-12.03	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Horizontal / CH: H

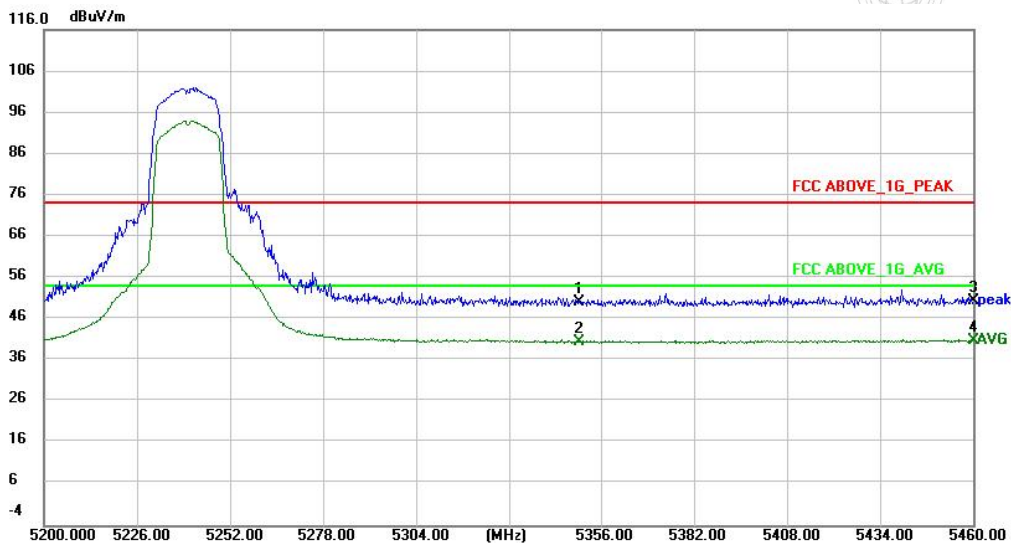


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	47.79	2.64	50.43	74.00	-23.57	peak	
2	*	5350.000	38.22	2.64	40.86	54.00	-13.14	AVG	
3		5460.000	46.86	2.98	49.84	74.00	-24.16	peak	
4		5460.000	37.80	2.98	40.78	54.00	-13.22	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode5 / Polarization: Vertical / CH: H

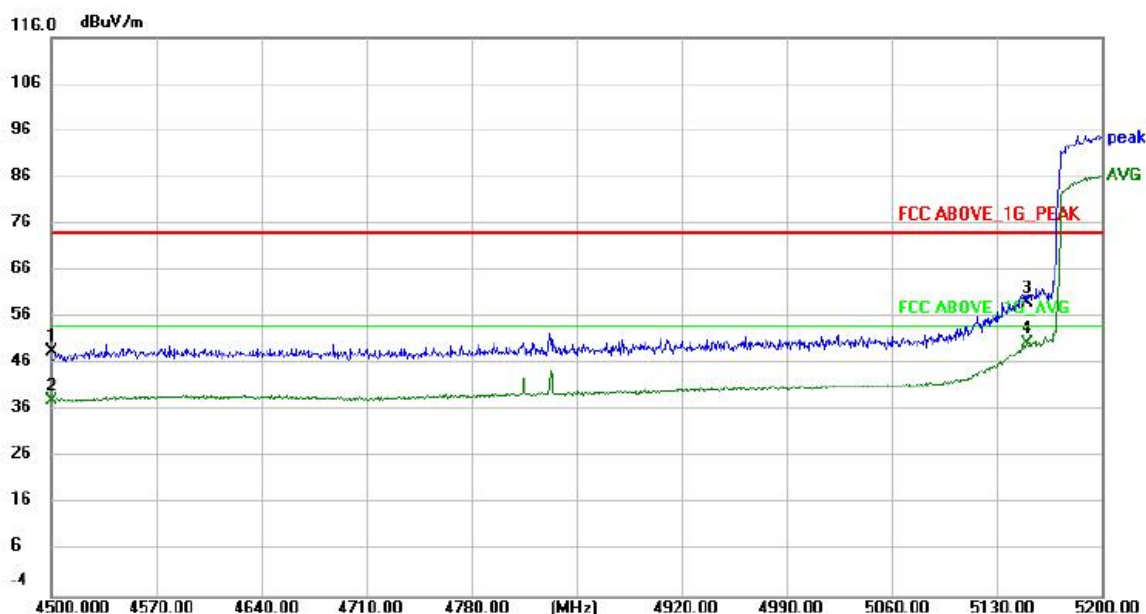


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	47.43	2.64	50.07	74.00	-23.93	peak	
2		5350.000	37.78	2.64	40.42	54.00	-13.58	AVG	
3		5460.000	47.50	2.98	50.48	74.00	-23.52	peak	
4	*	5460.000	37.97	2.98	40.95	54.00	-13.05	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Horizontal / CH: L

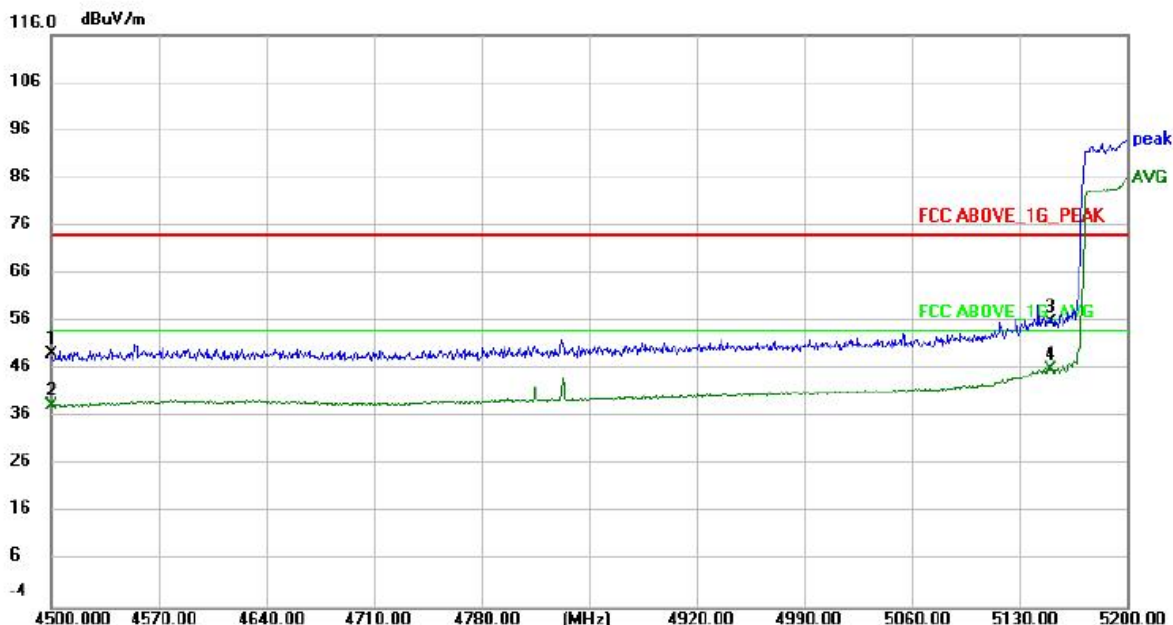


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	47.44	1.09	48.53	74.00	-25.47	peak	
2		4500.000	37.00	1.09	38.09	54.00	-15.91	AVG	
3		5150.000	56.46	2.77	59.23	74.00	-14.77	peak	
4	*	5150.000	47.81	2.77	50.58	54.00	-3.42	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Vertical / CH: L

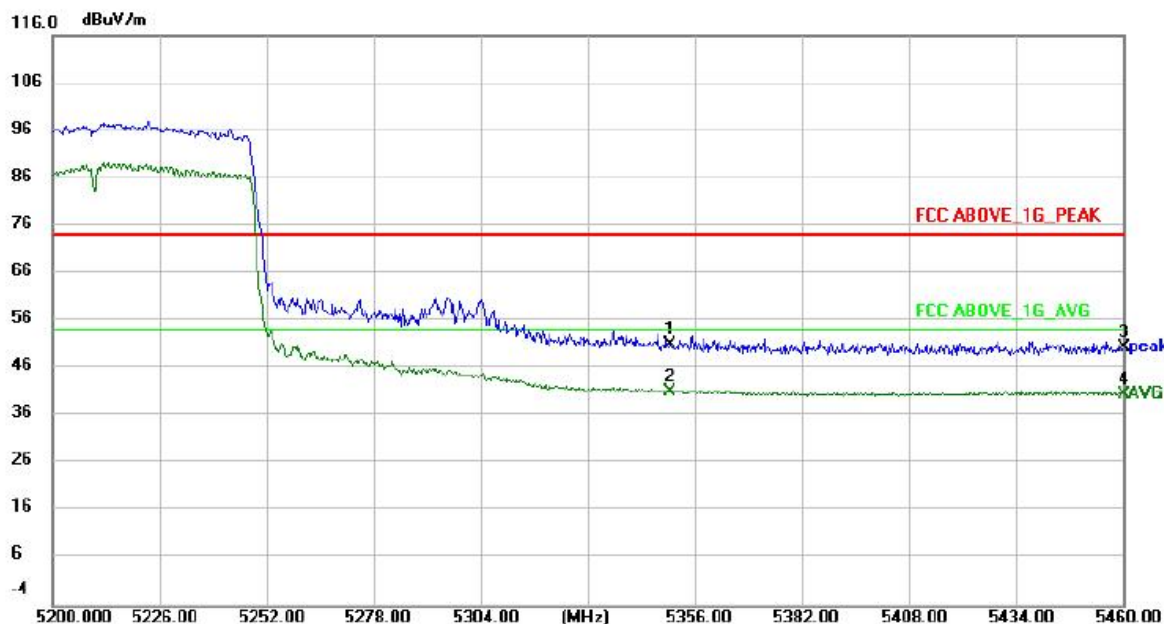


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	48.26	1.09	49.35	74.00	-24.65	peak	
2		4500.000	37.34	1.09	38.43	54.00	-15.57	AVG	
3		5150.000	52.98	2.77	55.75	74.00	-18.25	peak	
4	*	5150.000	43.25	2.77	46.02	54.00	-7.98	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Horizontal / CH: H

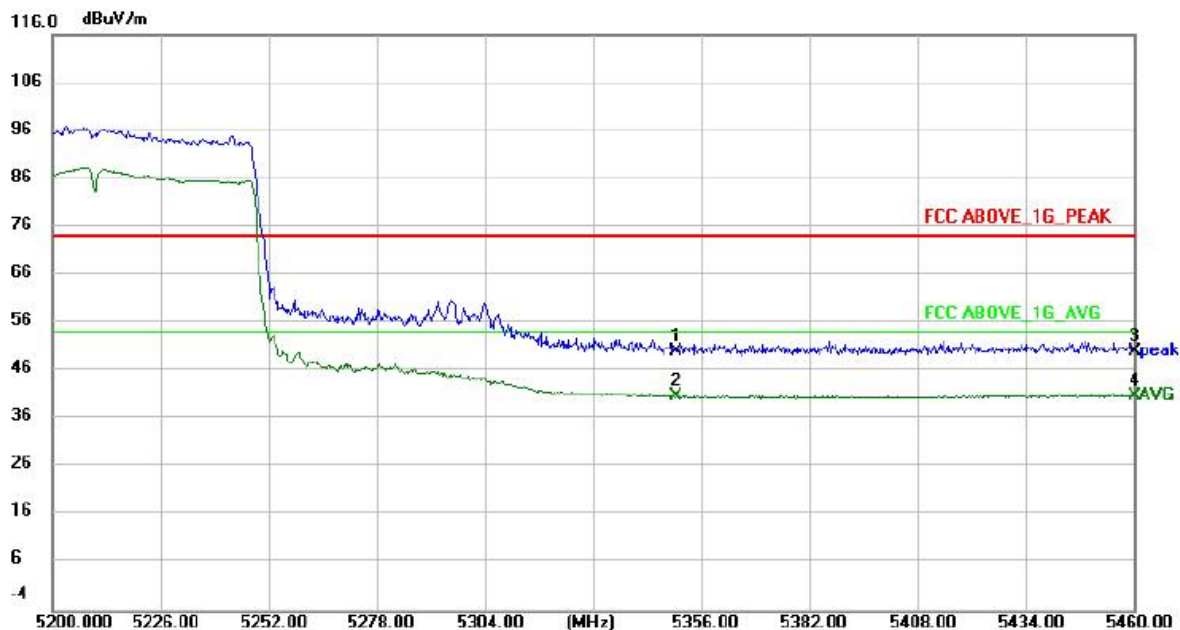


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	48.37	2.64	51.01	74.00	-22.99	peak	
2	*	5350.000	38.39	2.64	41.03	54.00	-12.97	AVG	
3		5460.000	47.54	2.98	50.52	74.00	-23.48	peak	
4		5460.000	37.62	2.98	40.60	54.00	-13.40	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode6 / Polarization: Vertical / CH: H



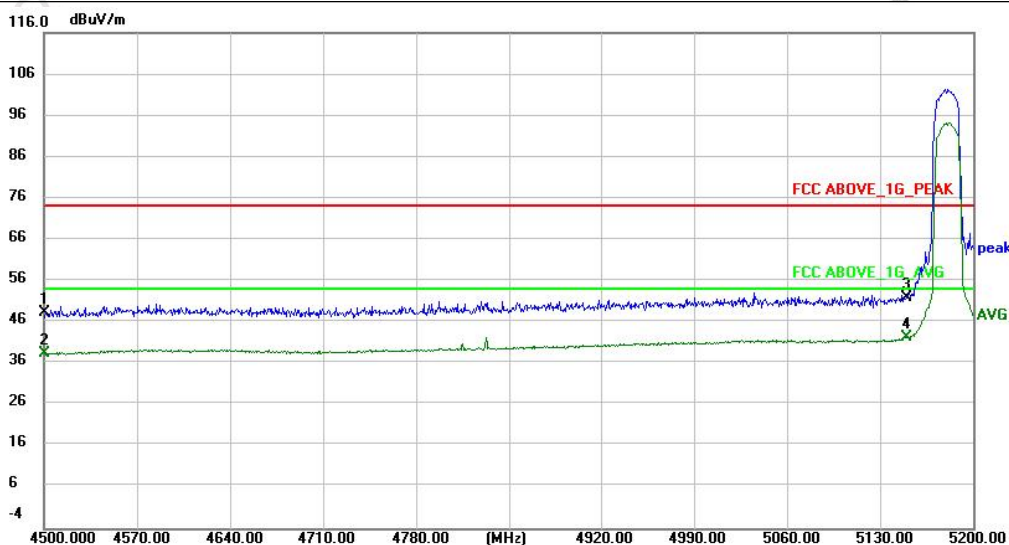
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.55	2.64	50.19	74.00	-23.81	peak	
2		5350.000	38.19	2.64	40.83	54.00	-13.17	AVG	
3		5460.000	47.18	2.98	50.16	74.00	-23.84	peak	
4	*	5460.000	37.98	2.98	40.96	54.00	-13.04	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

MIMO:

Mode7 / Polarization: Horizontal / CH: L

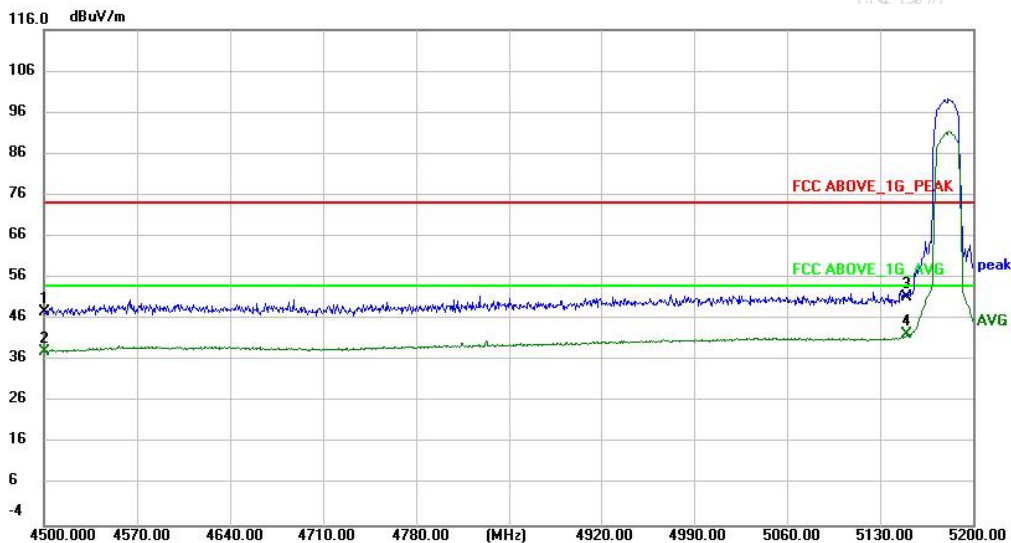


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	47.33	1.09	48.42	74.00	-25.58	peak	
2		4500.000	37.24	1.09	38.33	54.00	-15.67	AVG	
3		5150.000	49.28	2.77	52.05	74.00	-21.95	peak	
4	*	5150.000	39.55	2.77	42.32	54.00	-11.68	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode7 / Polarization: Vertical / CH: L

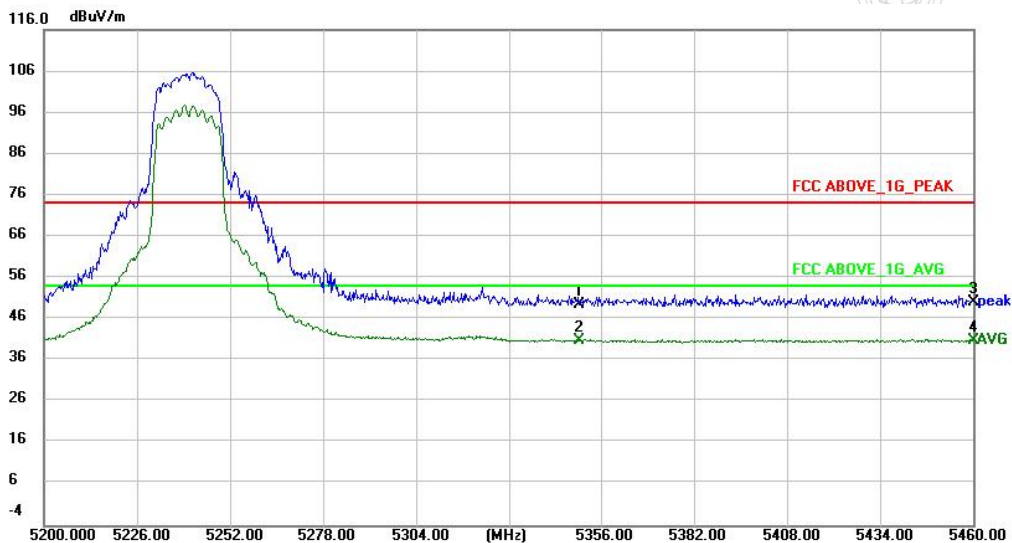


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.53	1.09	47.62	74.00	-26.38	peak	
2		4500.000	37.13	1.09	38.22	54.00	-15.78	AVG	
3		5150.000	48.62	2.77	51.39	74.00	-22.61	peak	
4	*	5150.000	39.50	2.77	42.27	54.00	-11.73	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode7 / Polarization: Horizontal / CH: H

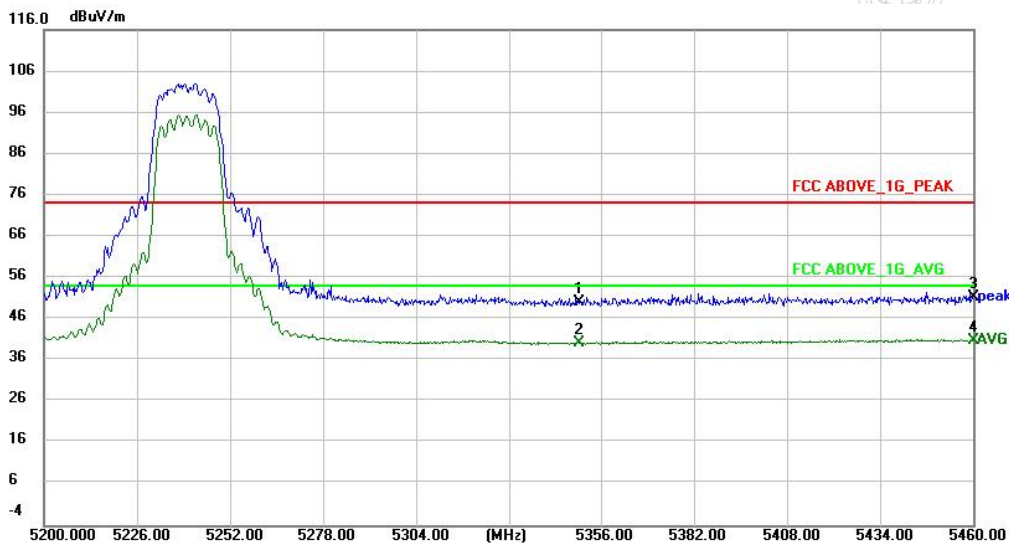


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5350.000	46.95	2.64	49.59	74.00	-24.41	peak	
2	*	5350.000	38.25	2.64	40.89	54.00	-13.11	AVG	
3		5460.000	47.04	2.98	50.02	74.00	-23.98	peak	
4		5460.000	37.72	2.98	40.70	54.00	-13.30	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode7 / Polarization: Vertical / CH: H

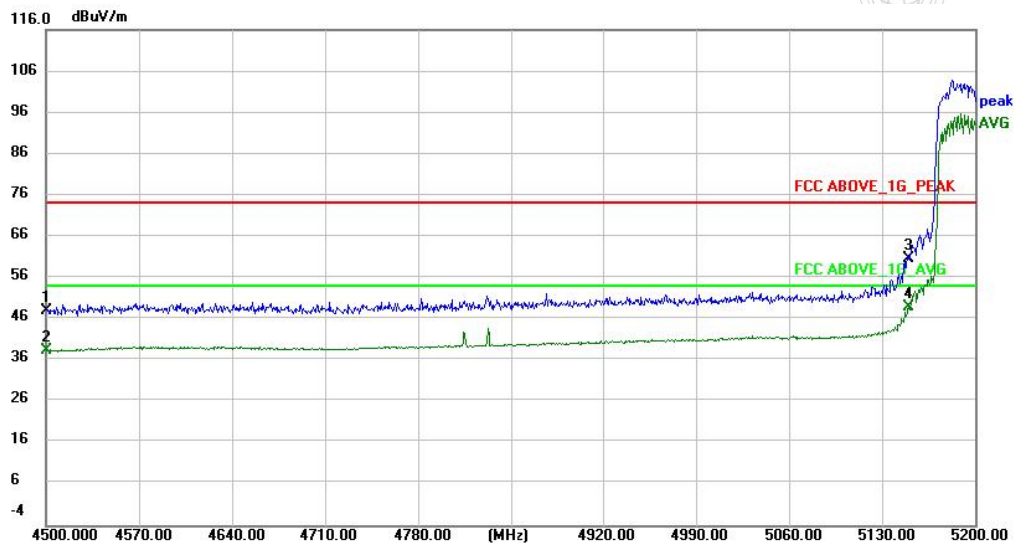


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	47.46	2.64	50.10	74.00	-23.90	peak	
2		5350.000	37.54	2.64	40.18	54.00	-13.82	AVG	
3		5460.000	48.45	2.98	51.43	74.00	-22.57	peak	
4	*	5460.000	37.88	2.98	40.86	54.00	-13.14	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode8 / Polarization: Horizontal / CH: L

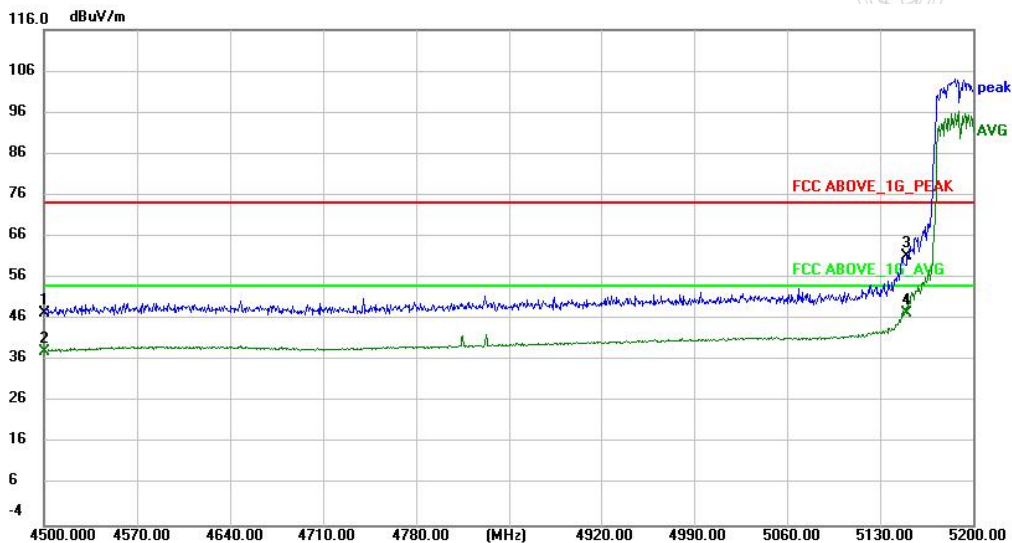


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.83	1.09	47.92	74.00	-26.08	peak	
2		4500.000	37.24	1.09	38.33	54.00	-15.67	AVG	
3		5150.000	57.83	2.77	60.60	74.00	-13.40	peak	
4	*	5150.000	46.27	2.77	49.04	54.00	-4.96	AVG	

TEST REPORT

Report No.: MTi250319007-0104E4

Mode8 / Polarization: Vertical / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	46.48	1.09	47.57	74.00	-26.43	peak	
2		4500.000	37.14	1.09	38.23	54.00	-15.77	AVG	
3		5150.000	58.52	2.77	61.29	74.00	-12.71	peak	
4	*	5150.000	44.81	2.77	47.58	54.00	-6.42	AVG	