RF TEST REPORT

For

Shen zhen Le Gexun Electronics Co., Ltd
Product Name: WIFI Module
Test Model(s): 20800D8-04

Report Reference No.	:	**DACE260831002RF004**
FCC ID	:	**2BL2Z20800D8-04**
Applicant's Name	:	Shen zhen Le Gexun Electronics Co., Ltd
Address	:	Shenzhen,Bao'an District,Hangcheng Street,Qiangrong East Industrial Zone,Building A2,301.shenzhen, China
Testing Laboratory	:	Shenzhen DACE Testing Technology Co., Ltd.
Address	:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Test Specification Standard	:	**47 CFR Part 15E**
Date of Receipt	:	August 31, 2026
Date of Test	:	August 31, 2026 to September 7, 2026
Date of Issue	:	September 7, 2026
Result	:	**Pass**

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen DACE Testing Technology Co., Ltd. This document may be altered or revised by Shenzhen DACE Testing Technology Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample

Apply for company information

Applicant's Name	:	Shen zhen Le Gexun Electronics Co., Ltd
Address	:	Shenzhen,Bao'an District,Hangcheng Street,Qiangrong East Industrial Zone,Building A2,301.shenzhen, China
Product Name	:	WIFI Module
Test Model(s)	:	20800D8-04
Series Model(s)	:	AIC8800,LGX8800D,LGX8840S,LGX8840S1,LGX8840S2,LGX8840U1
Test Specification Standard(s)	:	47 CFR Part 15E

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:	Supervised by:	Approved by:
Lucy Mo	Ben Tang	Machael Mo
Lucy Mo / Test Engineer	Ben Tang / Project Engineer	Machael Mo / Manager
September 7, 2026	September 7, 2026	September 7, 2026

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE260831002RF004	September 7, 2026

CONTENTS

1 TEST SUMMARY 6

1.1 TEST STANDARDS 6
1.2 SUMMARY OF TEST RESULT 6

2 GENERAL INFORMATION 7

2.1 CLIENT INFORMATION 7
2.2 DESCRIPTION OF DEVICE (EUT) 7
2.3 DESCRIPTION OF TEST MODES 9
2.4 DESCRIPTION OF SUPPORT UNITS 9
2.5 EQUIPMENTS USED DURING THE TEST 10
2.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY 12
2.7 IDENTIFICATION OF TESTING LABORATORY 12
2.8 ANNOUNCEMENT 12

3 EVALUATION RESULTS (EVALUATION) 13

3.1 ANTENNA REQUIREMENT 13

4 RADIO SPECTRUM MATTER TEST RESULTS (RF) 14

4.1 CONDUCTED EMISSION AT AC POWER LINE 14
4.1.1 E.U.T. Operation: 14
4.1.2 Test Setup Diagram: 14
4.1.3 Test Data: 15
4.2 DUTY CYCLE 17
4.2.1 E.U.T. Operation: 17
4.2.2 Test Setup Diagram: 17
4.2.3 Test Data: 17
4.3 EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH 18
4.3.1 E.U.T. Operation: 19
4.3.2 Test Setup Diagram: 19
4.3.3 Test Data: 19
4.4 MAXIMUM CONDUCTED OUTPUT POWER 20
4.4.1 E.U.T. Operation: 21
4.4.2 Test Setup Diagram: 21
4.4.3 Test Data: 21
4.5 POWER SPECTRAL DENSITY 22
4.5.1 E.U.T. Operation: 22
4.5.2 Test Setup Diagram: 23
4.5.3 Test Data: 23
4.6 FREQUENCY STABILITY 24
4.6.1 E.U.T. Operation: 24
4.6.2 Test Setup Diagram: 24
4.6.3 Test Data: 24
4.7 BAND EDGE EMISSIONS (CONDUCTED) 25
4.7.1 E.U.T. Operation: 26
4.7.2 Test Setup Diagram: 27
4.7.3 Test Data: 27
4.8 BAND EDGE EMISSIONS (RADIATED) 28

4.8.1 E.U.T. Operation: 29
4.8.2 Test Setup Diagram: 30
4.8.3 Test Data: 31
4.9 UNDESIRABLE EMISSION LIMITS (BELOW 1GHZ) 39
4.9.1 E.U.T. Operation: 40
4.9.2 Test Setup Diagram: 41
4.9.3 Test Data: 42
4.10 UNDESIRABLE EMISSION LIMITS (ABOVE 1GHZ) 44
4.10.1 E.U.T. Operation: 46
4.10.2 Test Setup Diagram: 46
4.10.3 Test Data: 47
5 TEST SETUP PHOTOS 77
6 PHOTOS OF THE EUT 77
APPENDIX-5.2G 77
1. -26DB AND 99% EMISSION BANDWIDTH 78
2. DUTY CYCLE 99
3. MAXIMUM CONDUCTED OUTPUT POWER 101
4. POWER SPECTRAL DENSITY 102
5. BANDEDGE 113
6. SPURIOUS EMISSION 122
7. FREQUENCY STABILITY 133
APPENDIX-5.8G 134
1. -6DB EMISSION BANDWIDTH 135
2. -26DB AND 99% EMISSION BANDWIDTH 146
3. DUTY CYCLE 167
4. MAXIMUM CONDUCTED OUTPUT POWER 169
5. POWER SPECTRAL DENSITY 170
6. BANDEDGE 181
7. SPURIOUS EMISSION 192
8. FREQUENCY STABILITY 203

1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15E		Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15E	ANSI C63.10-2020 section 6.2	47 CFR Part 15.207(a)	Pass
Duty Cycle	47 CFR Part 15E	ANSI C63.10-2020 section 12.2 (b)		Pass
Emission bandwidth and occupied bandwidth	47 CFR Part 15E	ANSI C63.10-2020, section 6.9 & 12.5 KDB 789033 D02, Clause C.2	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use. 47 CFR Part 15.407(e)	Pass
Maximum conducted output power	47 CFR Part 15E	ANSI C63.10-2020, section 12.4	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
Power spectral density	47 CFR Part 15E	ANSI C63.10-2020, section 12.6	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
Frequency stability	47 CFR Part 15E	ANSI C63.10-2020, section 6.8	47 CFR Part 15.407(g)	Pass
Band edge emissions (Conducted)	47 CFR Part 15E	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(4) 47 CFR Part 15.407(b)(10)	Pass
Band edge emissions (Radiated)	47 CFR Part 15E	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1), 15.205, 15.209 47 CFR Part 15.407(b)(4), 15.205, 15.209 47 CFR Part 15.407(b)(10), 15.205, 15.209	Pass
Undesirable emission limits (below 1GHz)	47 CFR Part 15E	ANSI C63.10-2020, section 12.7.4, 12.7.5	47 CFR Part 15.407(b)(9), 15.205, 15.209	Pass
Undesirable emission limits (above 1GHz)	47 CFR Part 15E	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7	47 CFR Part 15.407(b)(1), 15.205, 15.209 47 CFR Part 15.407(b)(4), 15.205, 15.209 47 CFR Part 15.407(b)(10), 15.205, 15.209	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shen zhen Le Gexun Electronics Co., Ltd
Address : Shenzhen,Bao'an District,Hangcheng Street,Qiangrong East Industrial Zone,Building A2,301.shenzhen, China

Manufacturer : Shen zhen Le Gexun Electronics Co., Ltd
Address : Shenzhen,Bao'an District,Hangcheng Street,Qiangrong East Industrial Zone,Building A2,301.shenzhen, China

2.2 Description of Device (EUT)

Product Name:	WIFI Module
Model/Type reference:	20800D8-04
Series Model:	AIC8800,LGX8800D,LGX8840S,LGX8840S1,LGX8840S2,LGX8840U1
Model Difference:	The product has many models, only the model name and color is different, and the other parts such as the circuit principle, pcb and electrical structure are the same.
Trade Mark:	N/A
Power Supply:	VCC:3.3V
Operation Frequency:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz
Number of Channels:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 1; U-NII Band 3: 1
Modulation Type:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type:	FPC
Antenna Gain:	2.98dBi
Hardware Version:	V1.0
Software Version:	V1.0

Remark:The Antenna Gain is supplied by the customer.DACE is not responsible for this data and the related calculations associated with it

Operation Frequency each of channel

802.11a/n(HT20)/ac(HT20)/ax(HT20)

	U-NII Band 1	U-NII Band 2	U-NII Band 3	U-NII Band 4
Channel	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
1	5180	/	/	5745
2	5200	/	/	5765
3	5220	/	/	5785
4	5240	/	/	5805
5	/	/	/	5825
6	/	/	/	/
7	/	/	/	/
8	/	/	/	/
9	/	/	/	/
10	/	/	/	/
11	/	/	/	/

802.11n(HT40)/ac(HT40)/ax(HT40)

	U-NII Band 1	U-NII Band 2	U-NII Band 3	U-NII Band 4
Channel	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
1	5190	/	/	5755
2	5230	/	/	5795
3	/	/	/	/
4	/	/	/	/
5	/	/	/	/

802.11ac(HT80)/ax(HT80)

	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Channel	Frequency	Frequency	Frequency	Frequency
1	5210	/	/	5775
2	/	/	/	/
3	/	/	/	/

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11a/n(HT20)/ac(HT20)/ax(HT20)				
	U-NII Band 1	U-NII Band 2	U-NII Band 3	U-NII Band 4
Test channel	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Lowest channel	5180 MHz	/	/	5745 MHz
Middle channel	5200 MHz	/	/	5785 MHz
Highest channel	5240 MHz	/	/	5825 MHz

802.11n(HT40)/ac(HT40)/ax(HT40)				
	U-NII Band 1	U-NII Band 2	U-NII Band 3	U-NII Band 4
Test channel	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Lowest channel	5190 MHz	/	/	5755 MHz
Middle channel	5230 MHz	/	/	5795 MHz
Highest channel		/	/	

802.11ac(HT80)/ax(HT80)				
	U-NII Band 1	U-NII Band 2	U-NII Band 3	U-NII Band 4
Test channel	**Frequency (MHz)**	**Frequency (MHz)**	**Frequency (MHz)**	**Frequency (MHz)**
Lowest channel	5210 MHz	/	/	5775 MHz
Middle channel		/	/	

2.3 Description of Test Modes

No	Title	Description
TM1	802.11a mode	Keep the EUT in continuously transmitting mode with 802.11a modulation type at lowest, middle and highest channel. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	802.11n mode	Keep the EUT in continuously transmitting mode with 802.11n modulation type at lowest, middle and highest channel. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM3	802.11ac mode	Keep the EUT in continuously transmitting mode with 802.11ac modulation type at lowest, middle and highest channel. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM4	802.11ax mode	Keep the EUT in continuously transmitting mode with 802.11ax modulation type at lowest, middle and highest channel. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Remark:Only the data of the worst mode would be recorded in this report.		

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
PC	HP	TPN-Q304	/

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Power absorbing clamp	SCHWARZ BECK	MESS-ELEKTRONIK	/	2026-04-14	2027-04-13
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	2026-04-14	2027-04-13
Cable	SCHWARZ BECK	/	/	2026-04-14	2027-04-13
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2025-12-02	2026-12-01
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2026-04-14	2027-04-13
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2026-04-14	2027-04-13
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2026-04-14	2027-04-13
Pulse Limiter	CYBERTEK	EM5010A	/	2026-04-14	2027-04-13
EMI test software	Farad	EZ -EMC	EMEC-3A1.1	/	/

Duty Cycle **Emission bandwidth and occupied bandwidth** **Maximum conducted output power** **Power spectral density** **Frequency stability** **Band edge emissions (Conducted)**					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
RF Control Unit	Tachoy Information Technology(shenzhen) Co.,Ltd.	TR1029-1	20220428C005	/	/

Undesirable emission limits (above 1GHz) Band edge emissions (Radiated) Undesirable emission limits (below 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test software	Farad	EZ -EMC	FA-03A2 RE+	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2026-04-14	2027-04-13
Cable(LF)#2	Schwarzbeck	/	/	2026-04-13	2027-04-12
Cable(LF)#1	Schwarzbeck	/	/	2026-04-14	2027-04-13
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2026-04-14	2027-04-13
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2026-04-14	2027-04-13
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2026-04-14	2027-04-13
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2026-04-14	2027-04-13
Wideband radio communication tester	R&S	CMW500	113410	2026-04-14	2027-04-13
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2026-04-14	2027-04-13
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2026-04-14	2027-04-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2026-04-14	2027-04-13
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2026-04-29	2028-04-28

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Duty cycle	±3.1%
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
RF power density	±0.234%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
Designation Number:	CN1342
Test Firm Registration Number:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

3 Evaluation Results (Evaluation)

3.1 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.
Test Method:	Reference to the Internal photos for details

4 Radio Spectrum Matter Test Results (RF)

4.1 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

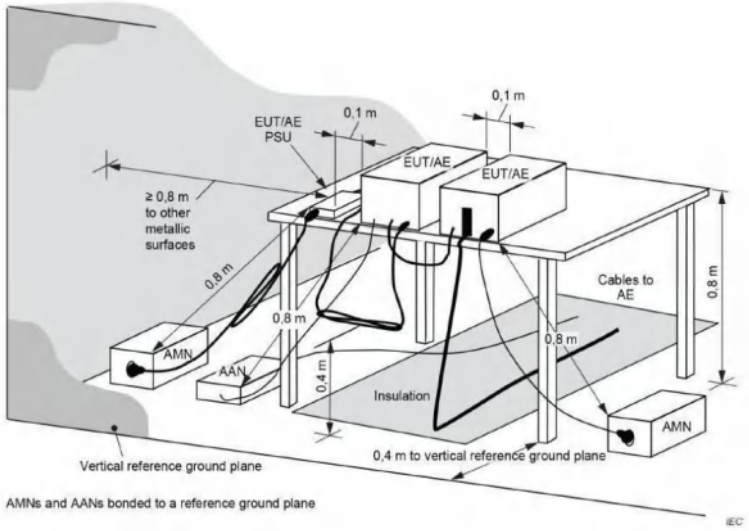
*Decreases with the logarithm of the frequency.

Test Method:	ANSI C63.10-2020 section 6.2

4.1.1 E.U.T. Operation:

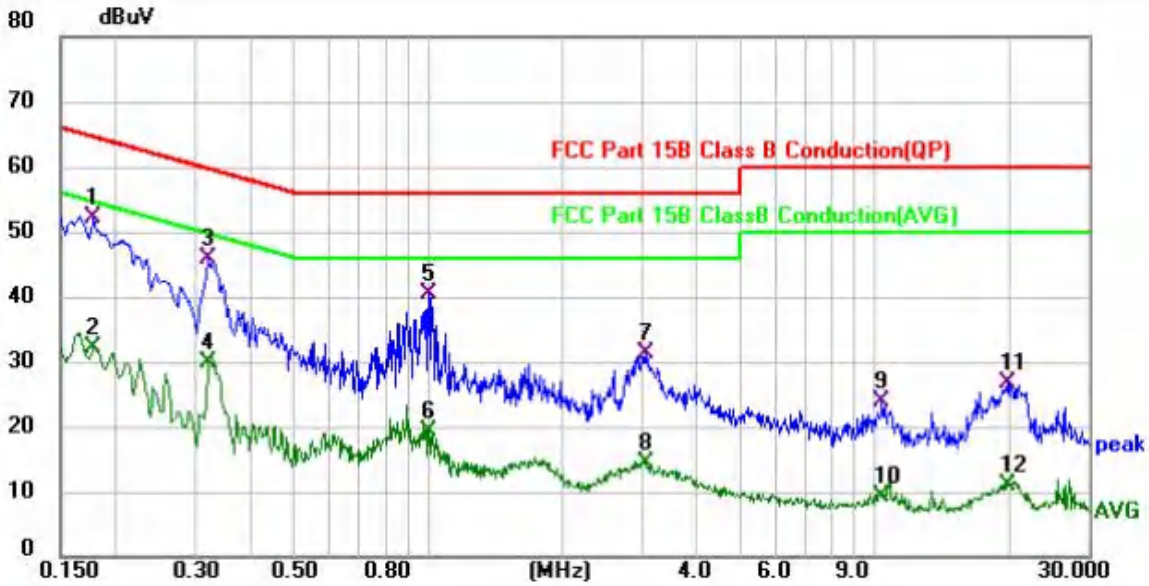
Operating Environment:					
Temperature:	23.4 °C	Humidity:	46 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.1.2 Test Setup Diagram:



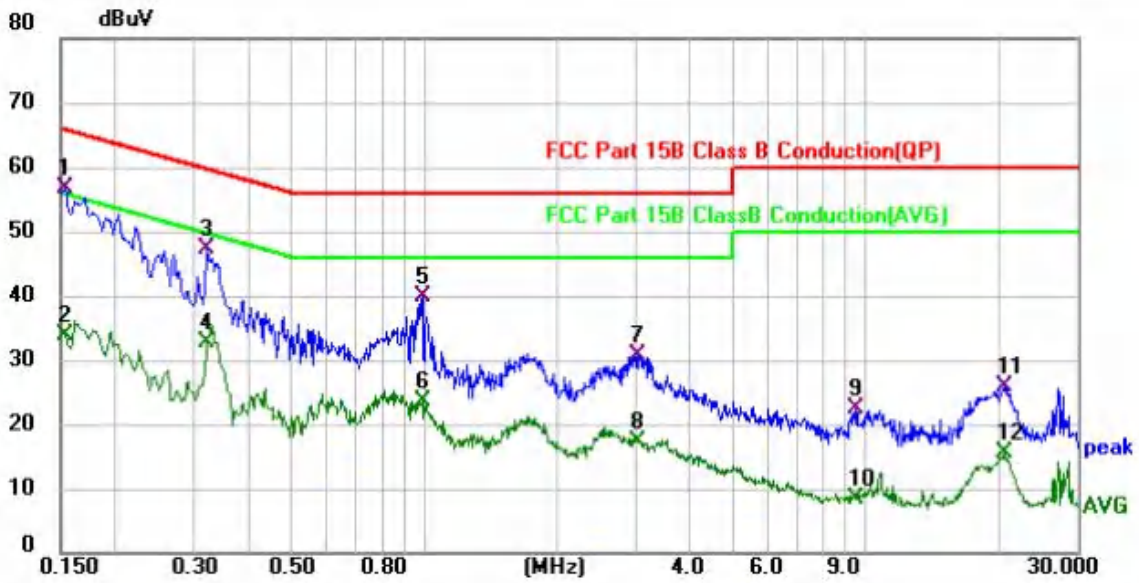
4.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1780	42.03	10.11	52.14	64.58	-12.44	QP	
2		0.1780	21.98	10.11	32.09	54.58	-22.49	AVG	
3		0.3220	35.72	10.10	45.82	59.66	-13.84	QP	
4		0.3220	19.63	10.10	29.73	49.66	-19.93	AVG	
5		1.0060	30.37	10.08	40.45	56.00	-15.55	QP	
6		1.0060	9.23	10.08	19.31	46.00	-26.69	AVG	
7		3.0620	21.15	10.15	31.30	56.00	-24.70	QP	
8		3.0620	4.42	10.15	14.57	46.00	-31.43	AVG	
9		10.3660	12.73	11.17	23.90	60.00	-36.10	QP	
10		10.3660	-1.79	11.17	9.38	50.00	-40.62	AVG	
11		19.8700	16.18	10.63	26.81	60.00	-33.19	QP	
12		19.8700	0.49	10.63	11.12	50.00	-38.88	AVG	

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1539	46.67	10.11	56.78	65.79	-9.01	QP	
2		0.1539	23.82	10.11	33.93	55.79	-21.86	AVG	
3		0.3220	37.21	10.10	47.31	59.66	-12.35	QP	
4		0.3220	22.52	10.10	32.62	49.66	-17.04	AVG	
5		0.9940	29.72	10.08	39.80	56.00	-16.20	QP	
6		0.9940	13.52	10.08	23.60	46.00	-22.40	AVG	
7		3.0500	20.67	10.15	30.82	56.00	-25.18	QP	
8		3.0500	7.24	10.15	17.39	46.00	-28.61	AVG	
9		9.5300	11.39	11.06	22.45	60.00	-37.55	QP	
10		9.5300	-2.62	11.06	8.44	50.00	-41.56	AVG	
11		20.5540	15.09	10.64	25.73	60.00	-34.27	QP	
12		20.5540	4.83	10.64	15.47	50.00	-34.53	AVG	

NOTE:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement

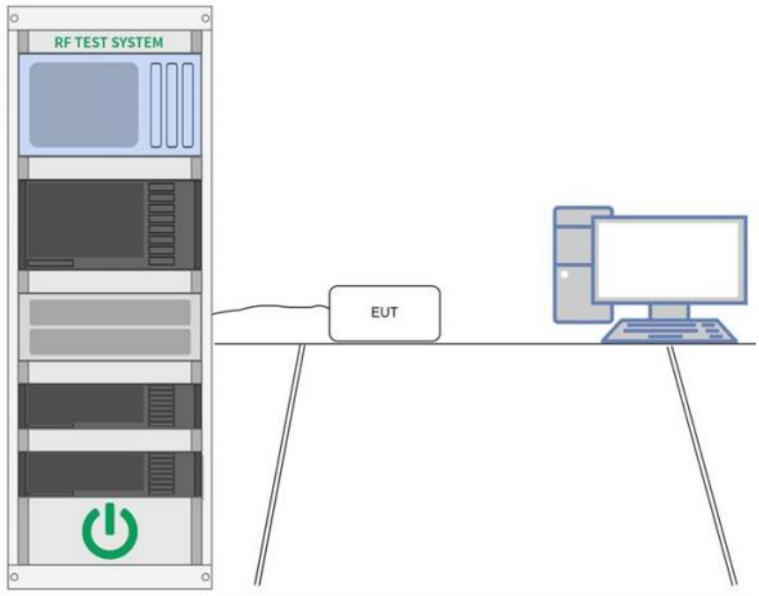
4.2 Duty Cycle

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 >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= 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.

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.4 °C	Humidity:	46 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

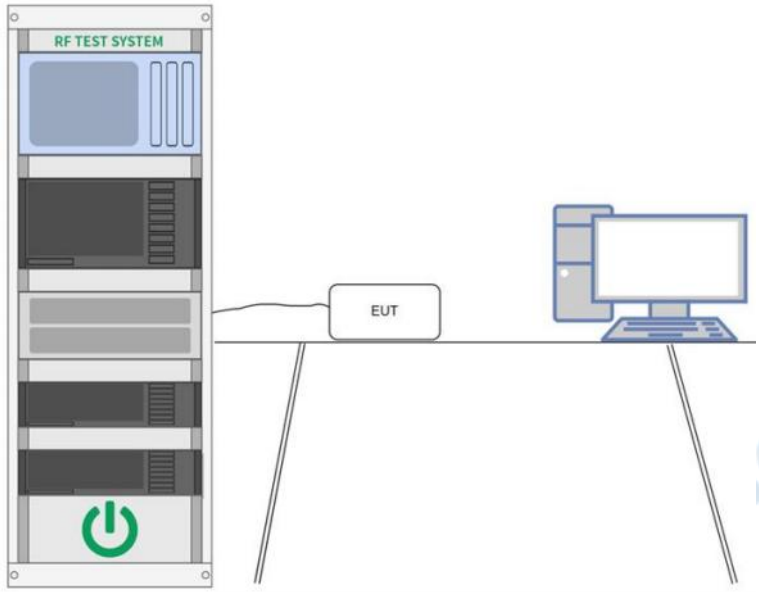
4.3 Emission bandwidth and occupied bandwidth

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: a) Set RBW = approximately 1% of the emission bandwidth. b) Set the VBW > RBW. c) Detector = peak. d) Trace mode = max hold. e) 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 approximately 1%. Occupied bandwidth: a) 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. b) 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. c) 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. d) Step a) through step c) might require iteration to adjust within the specified range. e) 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. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) 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, 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) ≥ 3 >= 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.

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	55 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

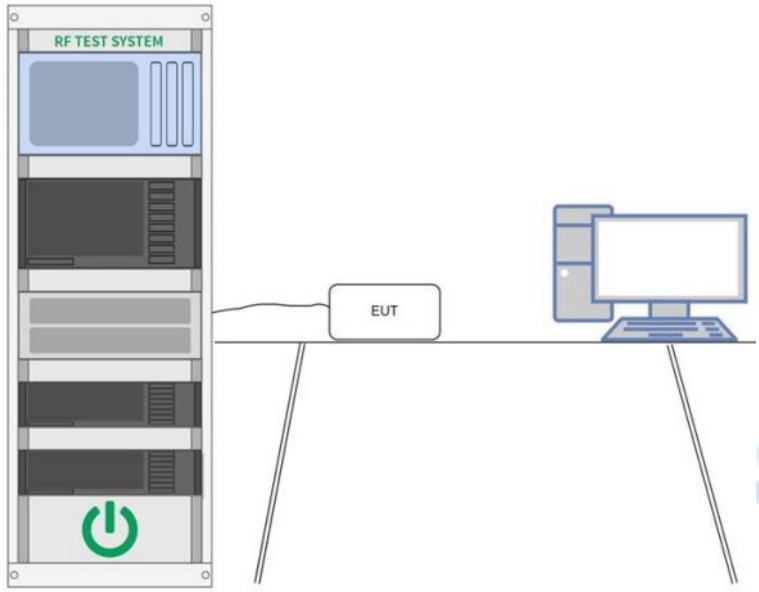
4.4 Maximum conducted output power

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 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. 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 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

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.2 °C	Humidity:	51 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

4.5 Power spectral density

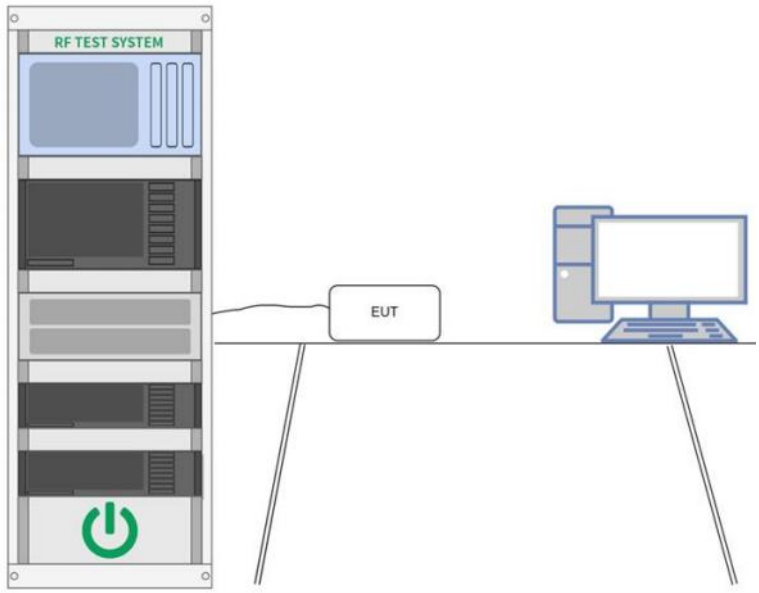
Test Requirement:	47 CFR Part 15.407(a)(1)(i) 47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(1)(iii) 47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in 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 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. 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 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 12.6
Procedure:	Refer to ANSI C63.10-2020, section 12.6

4.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	54 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				

Final test mode:	TM1, TM2, TM3, TM4

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

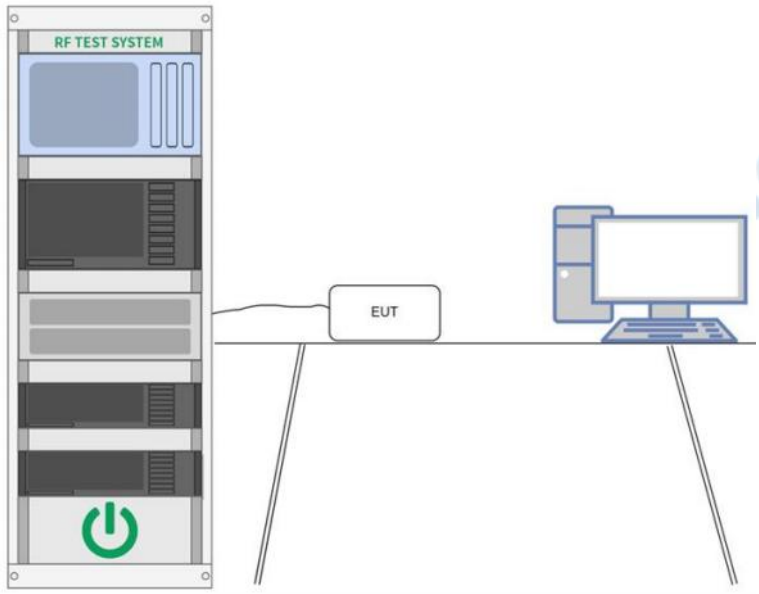
4.6 Frequency stability

Test Requirement:	47 CFR Part 15.407(g)
Test Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.
Test Method:	ANSI C63.10-2020, section 6.8
Procedure:	Refer to ANSI C63.10-2020 section 6.8

4.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.5 °C	Humidity:	55 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.6.2 Test Setup Diagram:



4.6.3 Test Data:

Please Refer to Appendix for Details.

4.7 Band edge emissions (Conducted)

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.

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			

[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 § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.

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.

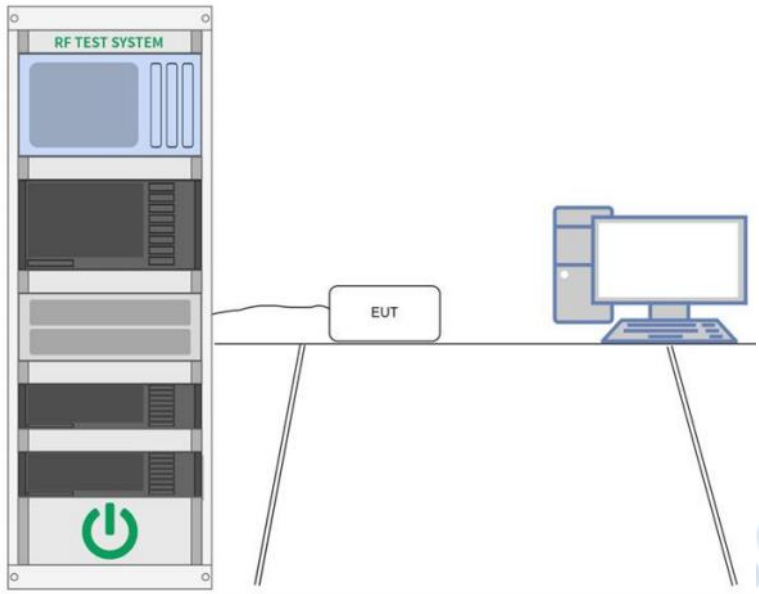
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7
Procedure:	Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. 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. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. 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.

4.7.1 E.U.T. Operation:

Operating Environment:

Temperature:	22.3 °C	Humidity:	53 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.7.2 Test Setup Diagram:



4.7.3 Test Data:

Please Refer to Appendix for Details.

4.8 Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b)(1), 15.205, 15.209 47 CFR Part 15.407(b)(4), 15.205, 15.209 47 CFR Part 15.407(b)(10), 15.205, 15.209
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.

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			

[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 § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.

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.

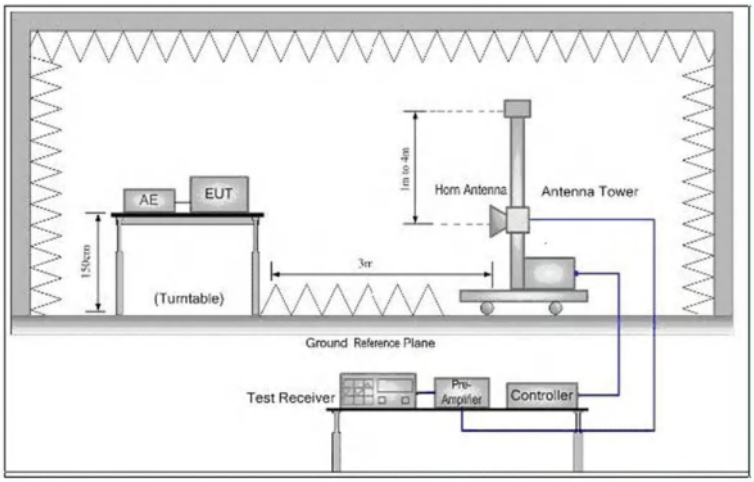
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7
Procedure:	Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. 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. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. 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.

4.8.1 E.U.T. Operation:

Operating Environment:

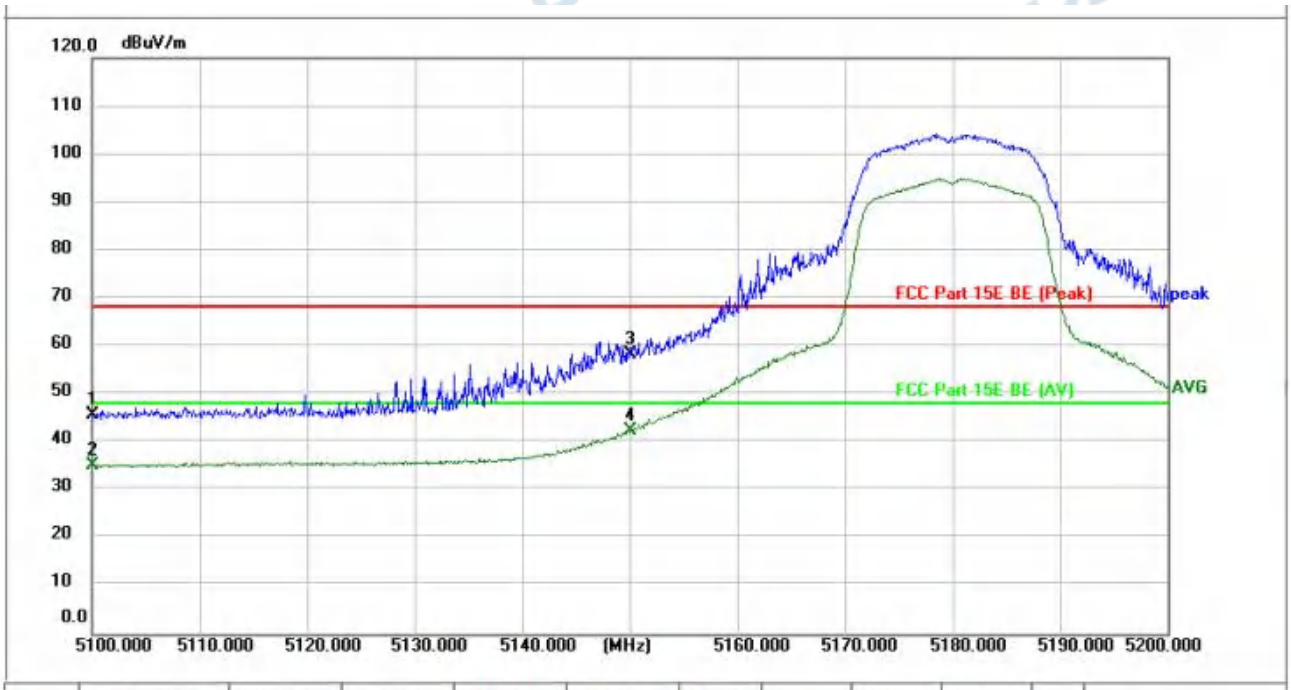
Temperature:	23.6 °C	Humidity:	51 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.8.2 Test Setup Diagram:



4.8.3 Test Data:

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L

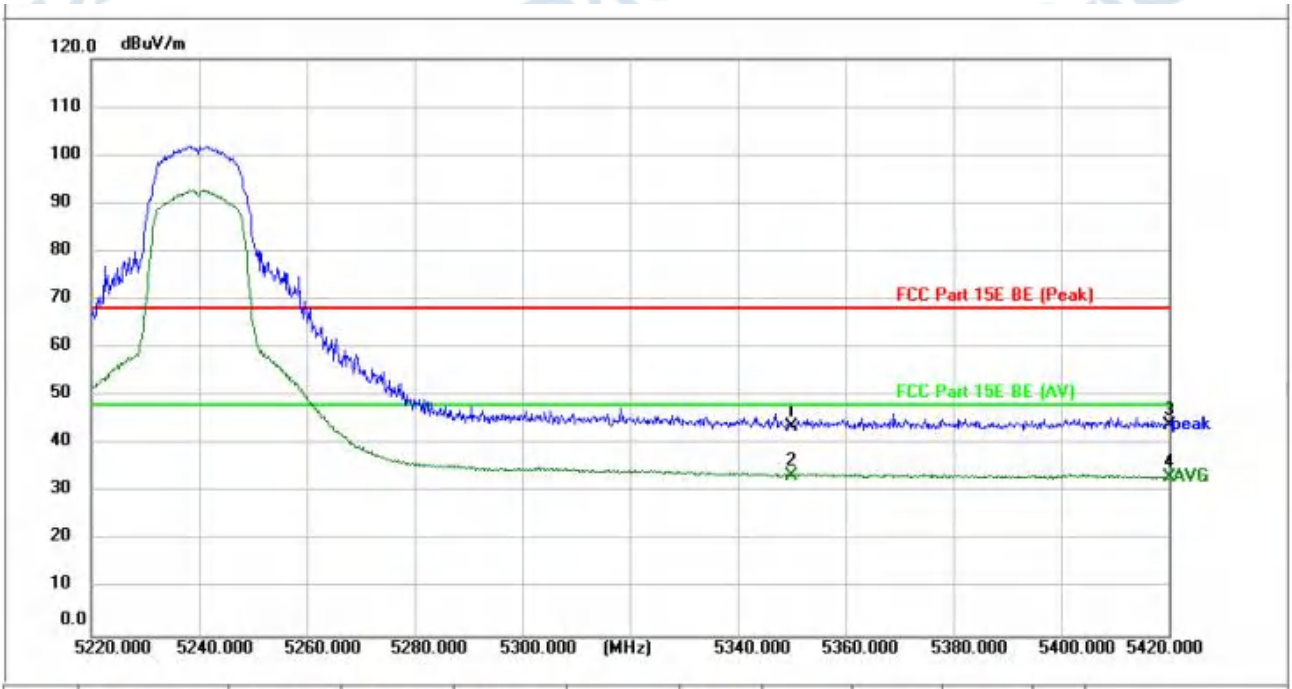


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5100.000	46.16	-0.53	45.63	68.20	-22.57	peak	149		P	
2	5100.000	35.92	-0.53	35.39	48.20	-12.81	AVG	149		P	
3	5150.000	58.90	-0.43	58.47	68.20	-9.73	peak	149		P	
4 *	5150.000	42.90	-0.43	42.47	48.20	-5.73	AVG	149		P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L

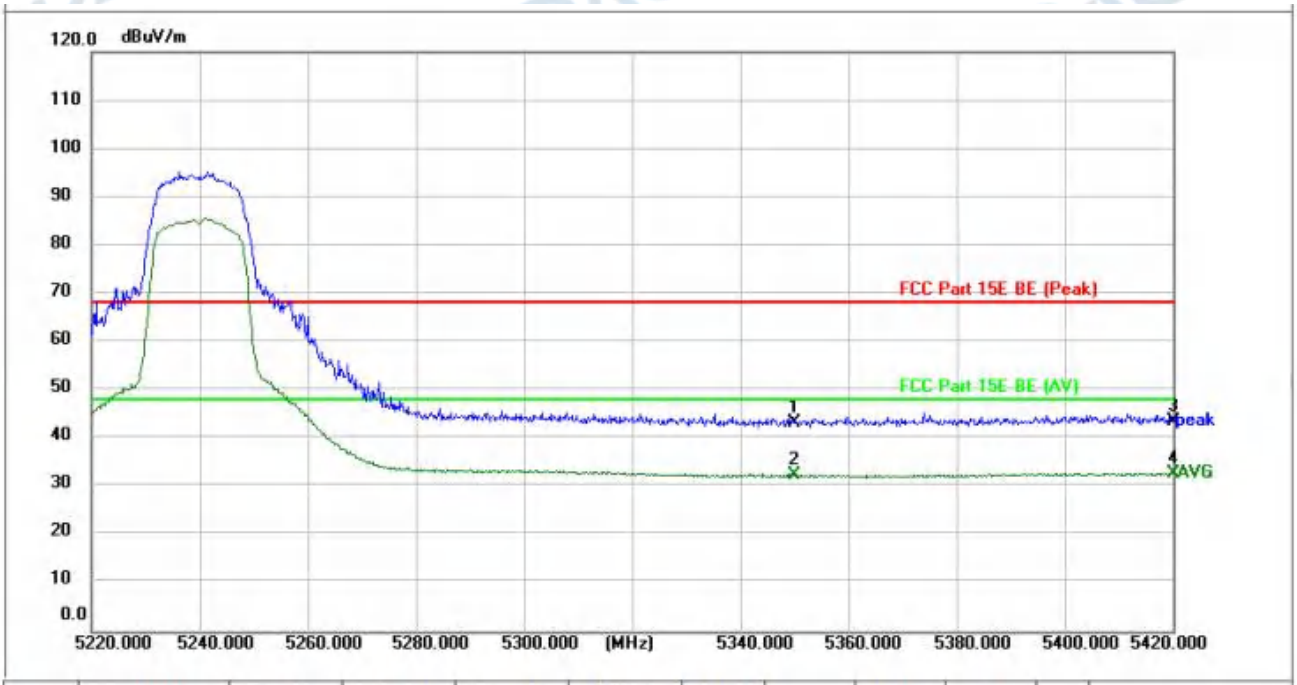
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5100.000	44.65	-0.53	44.12	68.20	-24.08	peak	149		P	
2	5100.000	33.26	-0.53	32.73	48.20	-15.47	AVG	149		P	
3	5150.000	51.65	-0.43	51.22	68.20	-16.98	peak	149		P	
4 *	5150.000	35.96	-0.43	35.53	48.20	-12.67	AVG	149		P	

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5350.000	43.68	-0.02	43.66	68.20	-24.54	peak			P	
2 *	5350.000	33.49	-0.02	33.47	48.20	-14.73	AVG			P	
3	5420.000	43.83	0.12	43.95	68.20	-24.25	peak			P	
4	5420.000	33.05	0.12	33.17	48.20	-15.03	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

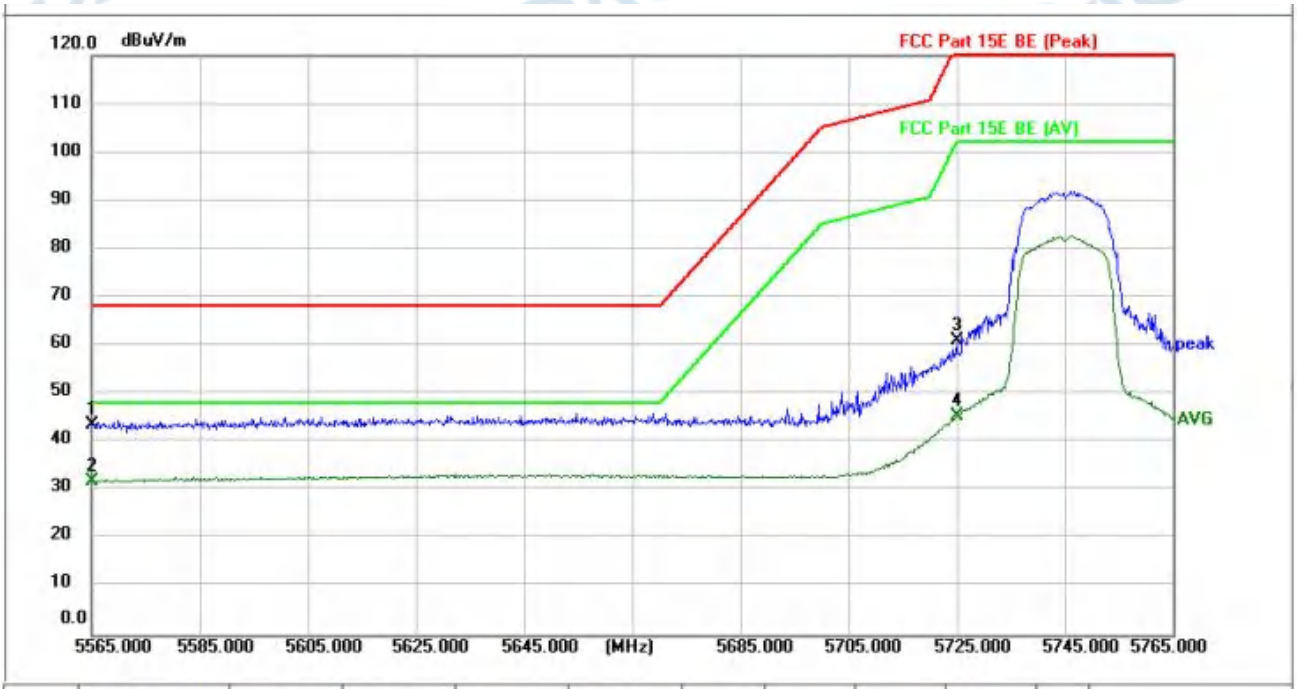


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5350.000	43.42	-0.02	43.40	68.20	-24.80	peak			P	
2	5350.000	32.50	-0.02	32.48	48.20	-15.72	AVG			P	
3	5420.000	43.67	0.12	43.79	68.20	-24.41	peak			P	
4 *	5420.000	32.68	0.12	32.80	48.20	-15.40	AVG			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

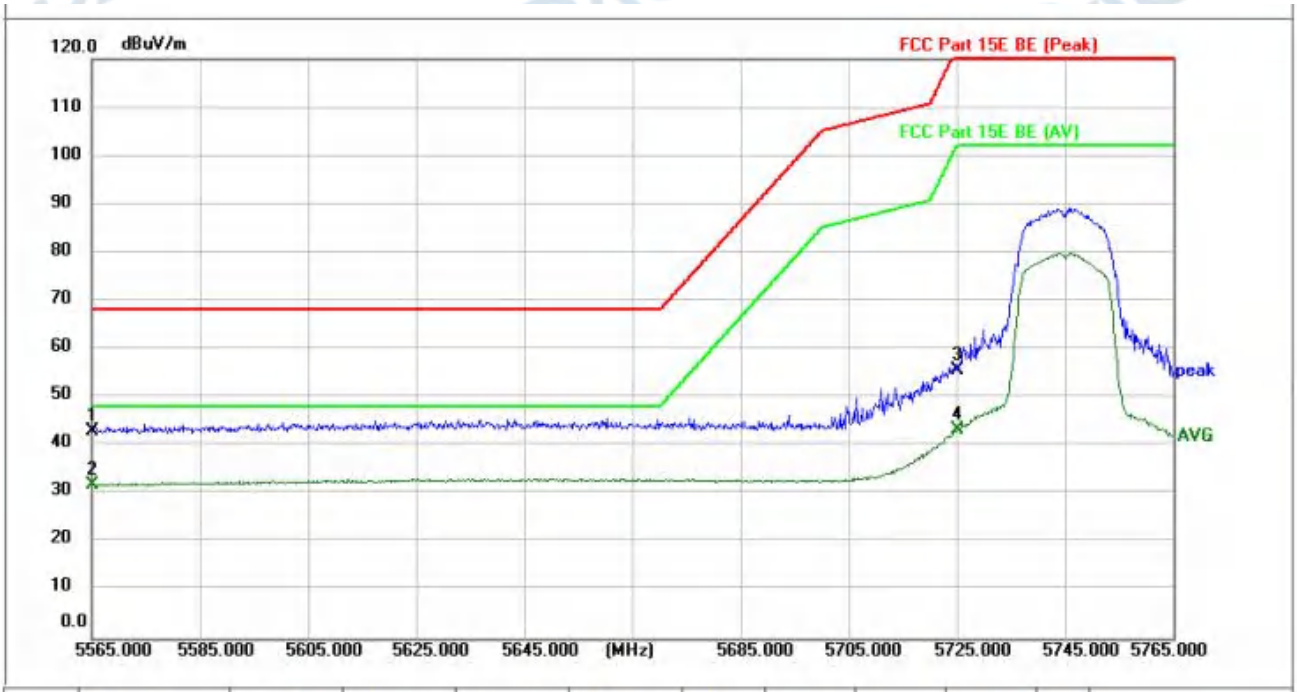
All modes have been tested, and the test results show that a-mode data is the worst, only a-mode test chart is put. Test Mode: 802.11a20 low channel (the worst)

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



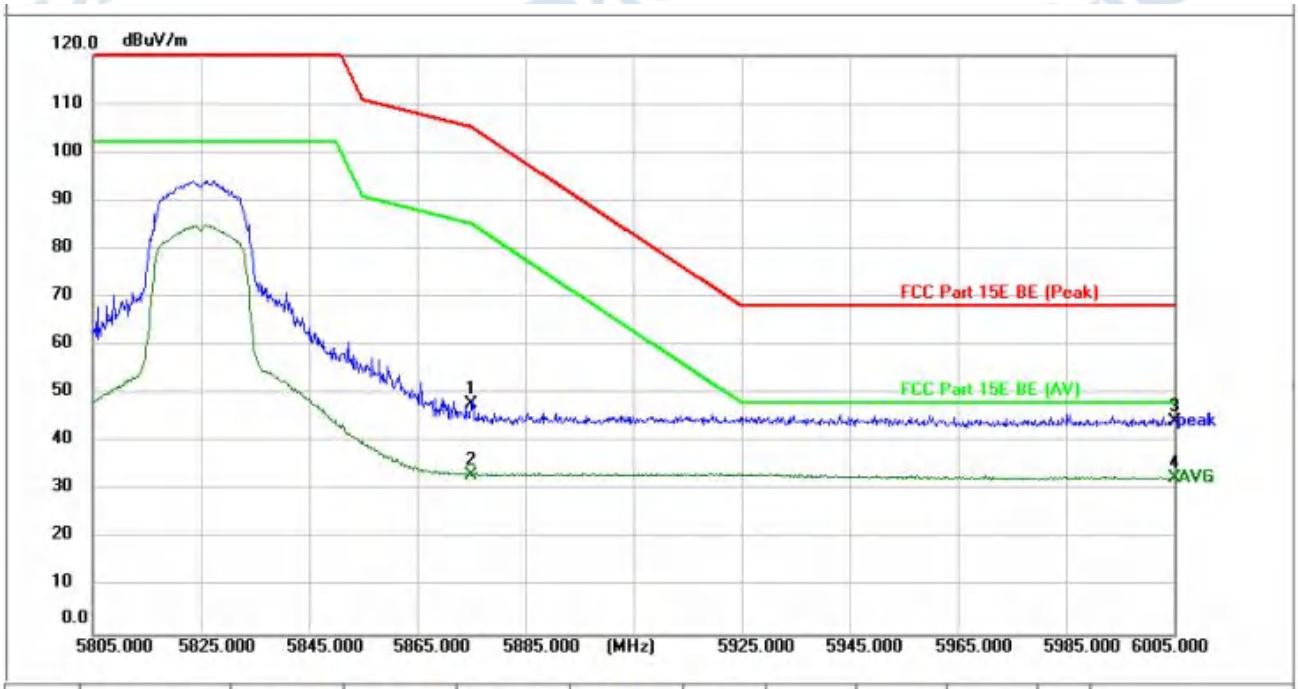
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5565.000	43.28	0.36	43.64	68.20	-24.56	peak	149		P	
2 *	5565.000	31.69	0.36	32.05	48.20	-16.15	AVG	149		P	
3	5725.000	60.56	0.55	61.11	122.20	-61.09	peak	149		P	
4	5725.000	44.90	0.55	45.45	102.20	-56.75	AVG	149		P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



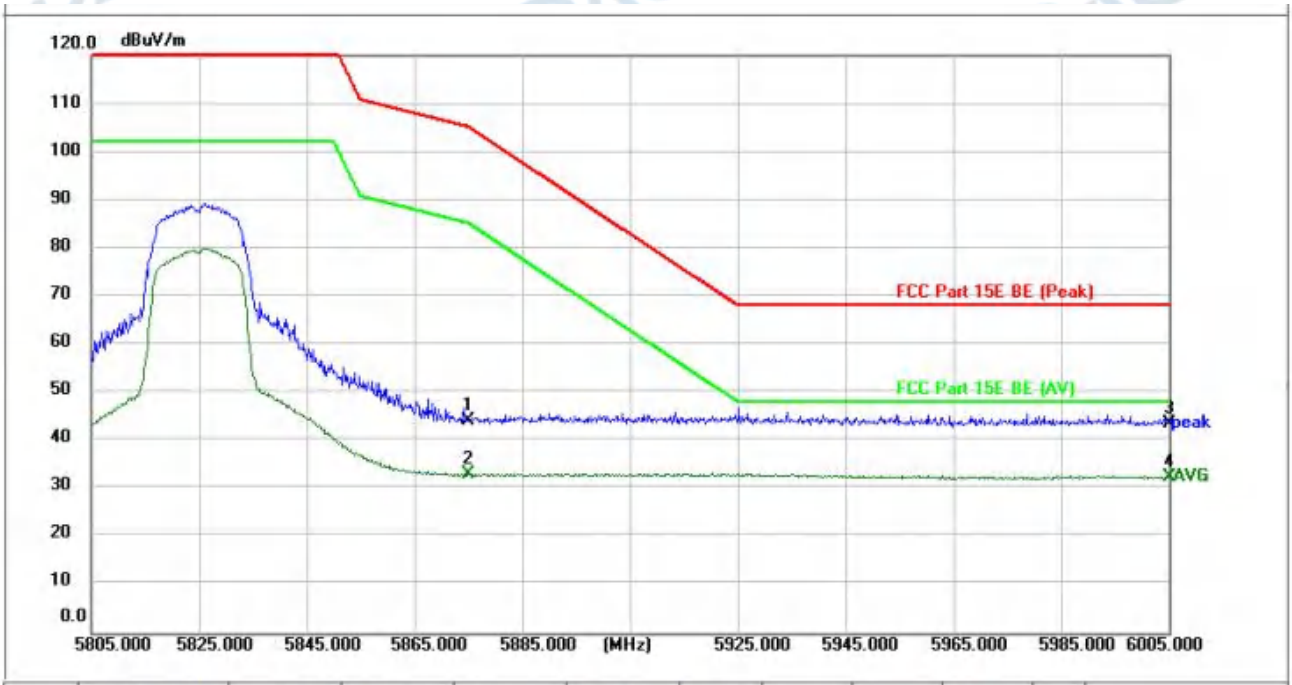
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5565.000	42.59	0.36	42.95	68.20	-25.25	peak	149		P	
2 *	5565.000	31.57	0.36	31.93	48.20	-16.27	AVG	149		P	
3	5725.000	55.10	0.55	55.65	122.20	-66.55	peak	149		P	
4	5725.000	42.79	0.55	43.34	102.20	-58.86	AVG	149		P	

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5875.000	46.98	0.74	47.72	105.20	-57.48	peak	149		P	
2	5875.000	32.42	0.74	33.16	85.20	-52.04	AVG	149		P	
3	6005.000	43.32	0.90	44.22	68.20	-23.98	peak	149		P	
4 *	6005.000	31.70	0.90	32.60	48.20	-15.60	AVG	149		P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5875.000	43.43	0.74	44.17	105.20	-61.03	peak	149		P	
2	5875.000	32.38	0.74	33.12	85.20	-52.08	AVG	149		P	
3	6005.000	42.85	0.90	43.75	68.20	-24.45	peak	149		P	
4 *	6005.000	31.53	0.90	32.43	48.20	-15.77	AVG	149		P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The EUT was tested in the low, high channel and the worst case position data was reported, and the test results show that a-mode data is the worst, only a-mode test chart is put. Test Mode: 802.11a20 low channel (the worst).

4.9 Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9), 15.205, 15.209
Test Limit:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. 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.

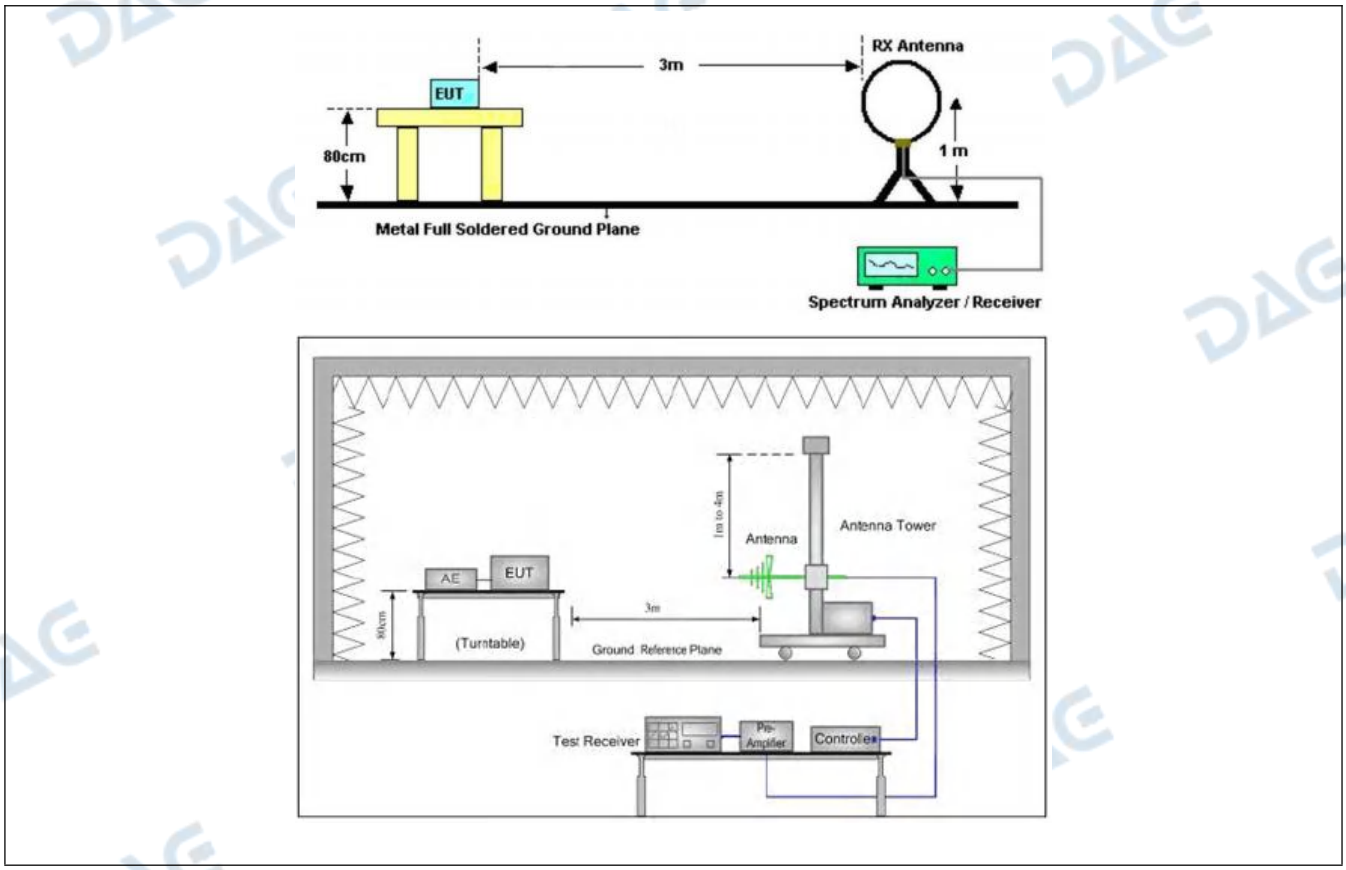
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.5
Procedure:	Below 1GHz: a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. 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. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. Above 1GHz: a. 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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. 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. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. 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.

4.9.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	51 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.9.2 Test Setup Diagram:



4.9.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	30.1054	28.03	3.05	31.08	40.00	-8.92	QP	100		P	
2	72.5916	26.96	-6.83	20.13	40.00	-19.87	QP	100		P	
3	126.3286	26.67	0.08	26.75	43.50	-16.75	QP	100		P	
4	202.8104	31.38	-3.90	27.48	43.50	-16.02	QP	100		P	
5	429.5228	27.34	0.86	28.20	46.00	-17.80	QP	100		P	
6	945.4399	26.41	10.33	36.74	46.00	-9.26	QP	100		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	27.89	3.23	31.12	40.00	-8.88	QP	100		P	
2	121.5486	29.59	-0.32	29.27	43.50	-14.23	QP	100		P	
3	197.2001	33.56	-3.55	30.01	43.50	-13.49	QP	100		P	
4	223.7334	31.29	-4.78	26.51	46.00	-19.49	QP	100		P	
5	517.2480	27.26	3.61	30.87	46.00	-15.13	QP	100		P	
6 *	958.7943	26.81	10.69	37.50	46.00	-8.50	QP	100		P	

4.10 Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(1), 15.205, 15.209 47 CFR Part 15.407(b)(4), 15.205, 15.209 47 CFR Part 15.407(b)(10), 15.205, 15.209
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.

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			

[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 § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.

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.

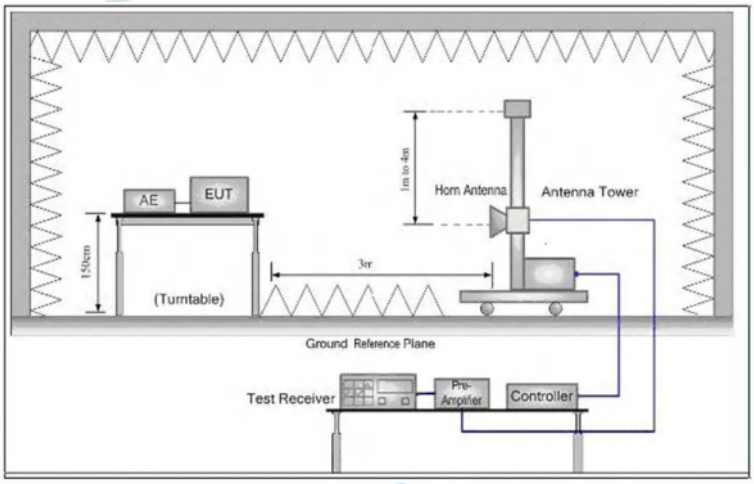
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7
Procedure:	Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. 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. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. 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.

4.10.1 E.U.T. Operation:

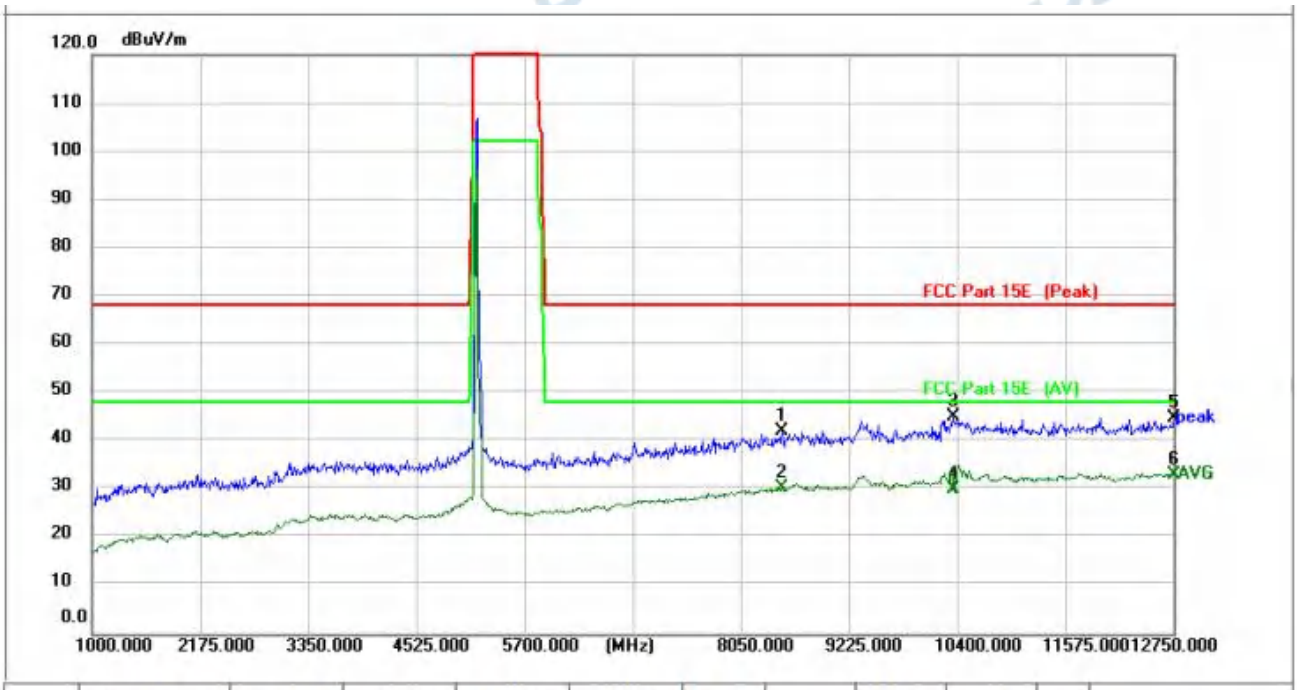
Operating Environment:					
Temperature:	22.2 °C	Humidity:	48 %	Atmospheric Pressure:	101.5 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.10.2 Test Setup Diagram:



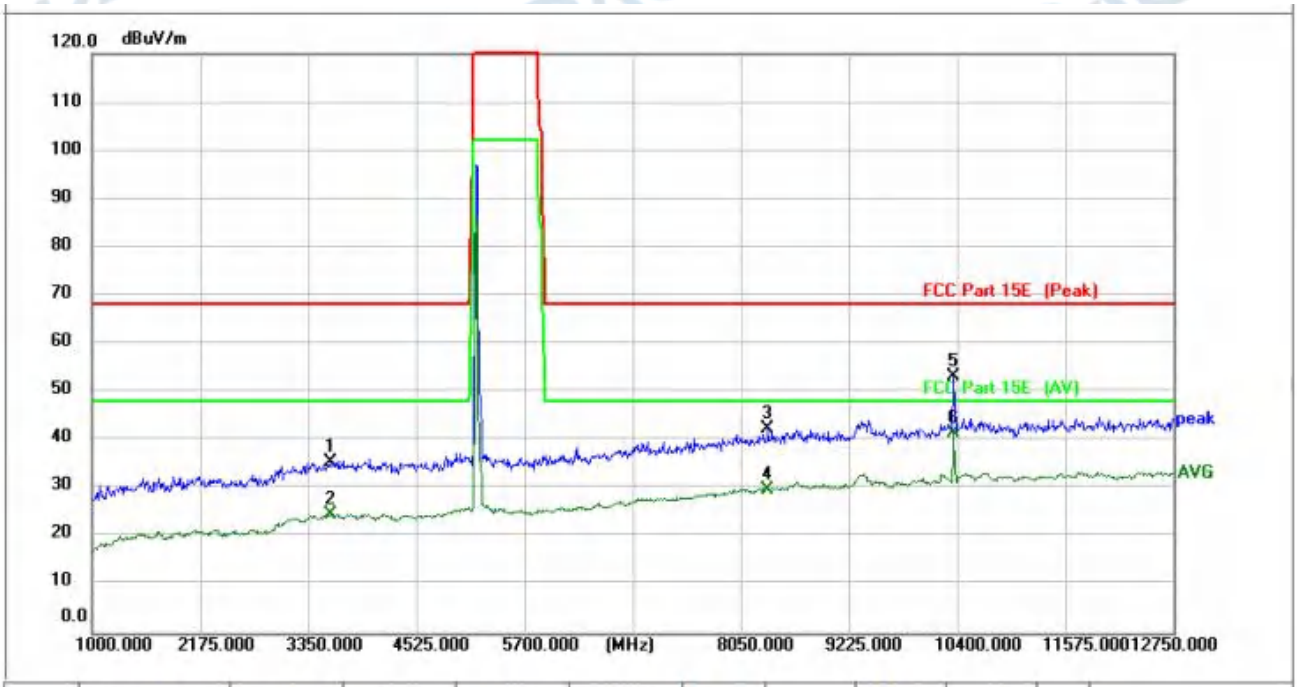
4.10.3 Test Data:

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



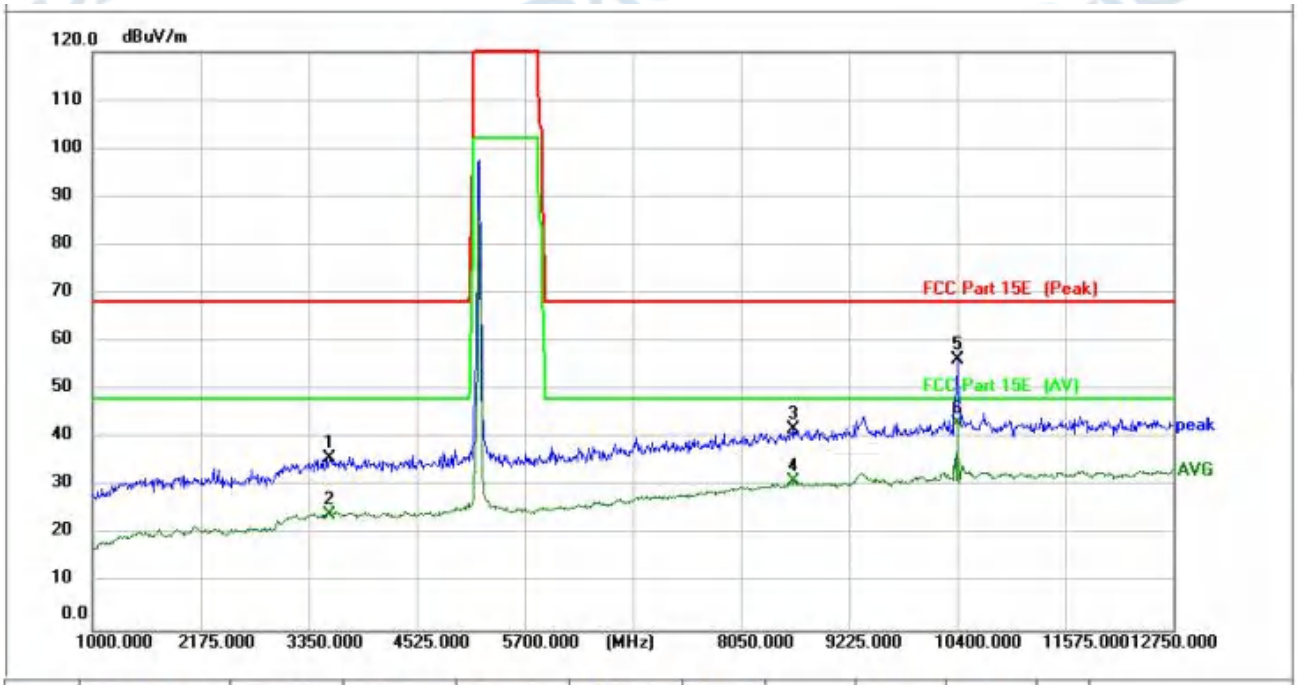
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	8496.500	36.22	5.94	42.16	68.20	-26.04	peak			P	
2	8496.500	24.54	5.94	30.48	48.20	-17.72	AVG			P	
3	10353.000	37.67	7.42	45.09	68.20	-23.11	peak			P	
4	10353.000	22.70	7.42	30.12	48.20	-18.08	AVG			P	
5	12750.000	36.27	8.66	44.93	68.20	-23.27	peak			P	
6 *	12750.000	24.46	8.66	33.12	48.20	-15.08	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



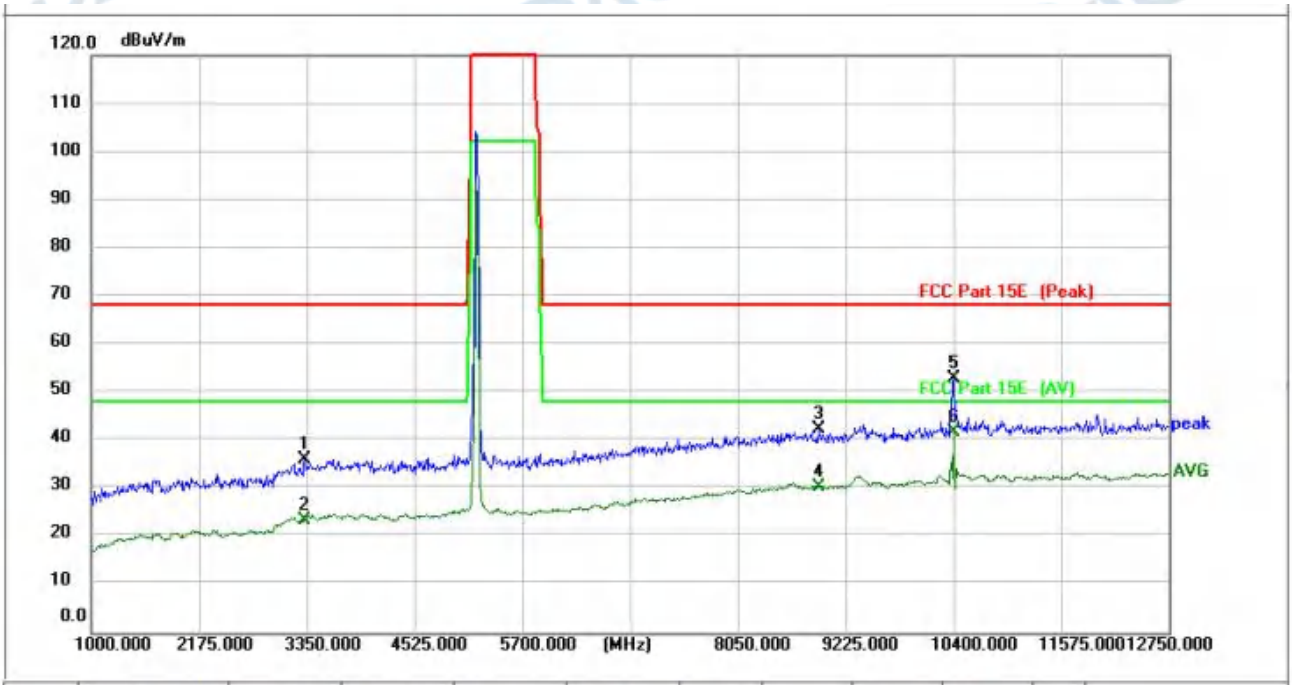
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3585.000	39.44	-3.89	35.55	68.20	-32.65	peak			P	
2	3585.000	28.49	-3.89	24.60	48.20	-23.60	AVG			P	
3	8343.750	36.83	5.71	42.54	68.20	-25.66	peak			P	
4	8343.750	24.24	5.71	29.95	48.20	-18.25	AVG			P	
5	10364.750	45.71	7.44	53.15	68.20	-15.05	peak			P	
6 *	10364.750	34.06	7.44	41.50	48.20	-6.70	AVG			P	

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: M



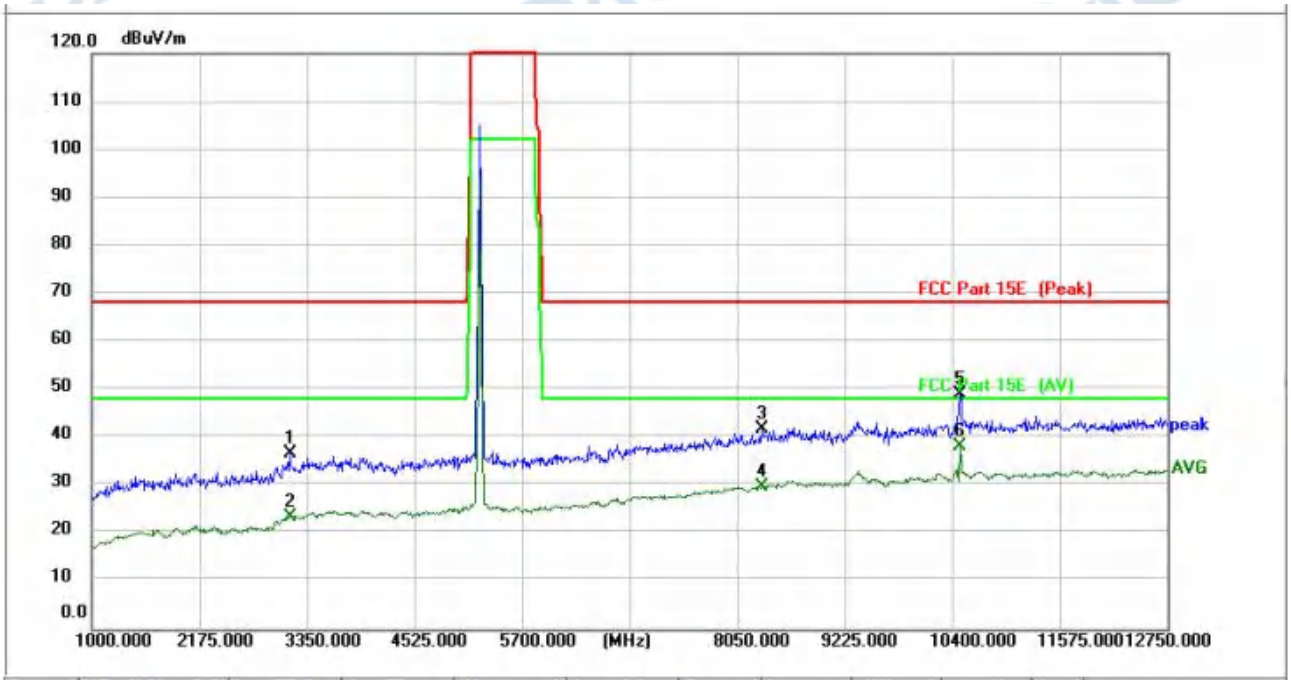
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3573.250	39.78	-3.91	35.87	68.20	-32.33	peak	149		P	
2	3573.250	28.20	-3.91	24.29	48.20	-23.91	AVG	149		P	
3	8625.750	35.82	6.16	41.98	68.20	-26.22	peak	149		P	
4	8625.750	24.95	6.16	31.11	48.20	-17.09	AVG	149		P	
5	10400.000	48.64	7.48	56.12	68.20	-12.08	peak	149		P	
6 *	10400.000	35.44	7.48	42.92	48.20	-5.28	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: M



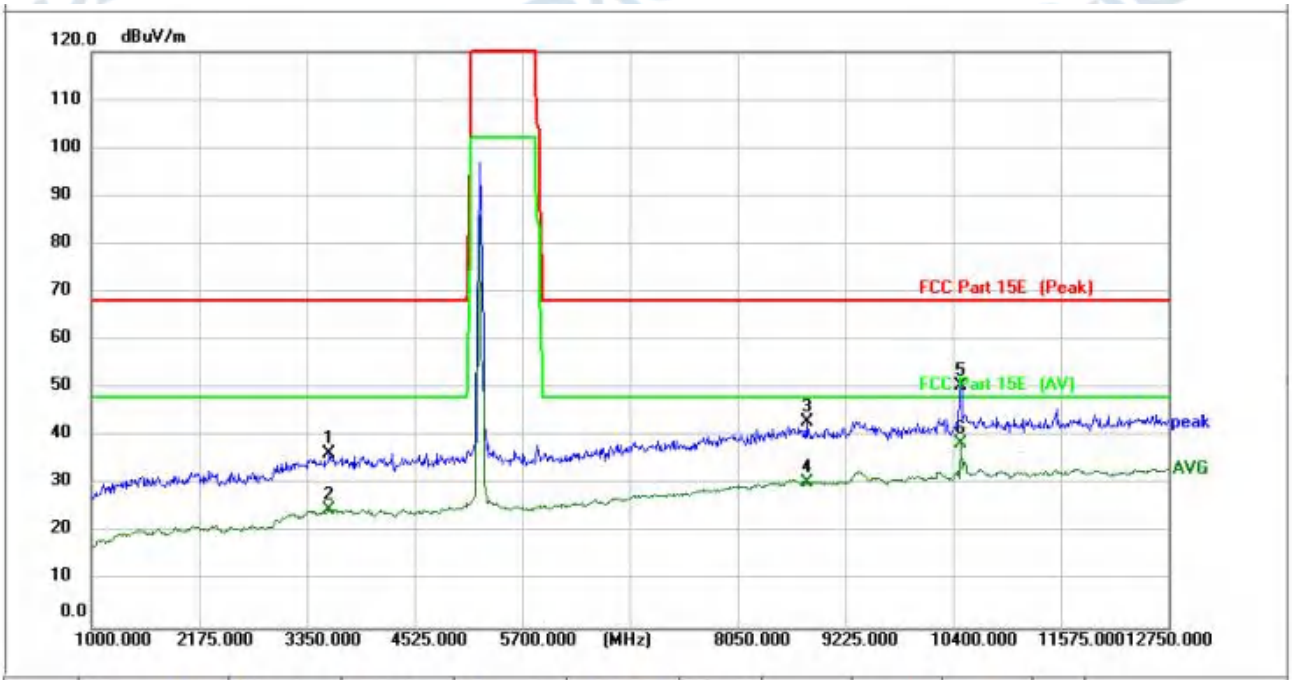
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3326.500	41.04	-4.76	36.28	68.20	-31.92	peak			P	
2	3326.500	28.41	-4.76	23.65	48.20	-24.55	AVG			P	
3	8931.250	35.66	6.68	42.34	68.20	-25.86	peak			P	
4	8931.250	23.73	6.68	30.41	48.20	-17.79	AVG			P	
5	10400.000	45.44	7.48	52.92	68.20	-15.28	peak			P	
6 *	10400.000	34.52	7.48	42.00	48.20	-6.20	AVG			P	

TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3162.000	42.03	-5.39	36.64	68.20	-31.56	peak			P	
2	3162.000	28.92	-5.39	23.53	48.20	-24.67	AVG			P	
3	8320.250	36.25	5.67	41.92	68.20	-26.28	peak			P	
4	8320.250	24.21	5.67	29.88	48.20	-18.32	AVG			P	
5	10482.250	41.52	7.58	49.10	68.20	-19.10	peak			P	
6 *	10482.250	30.71	7.58	38.29	48.20	-9.91	AVG			P	

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: H

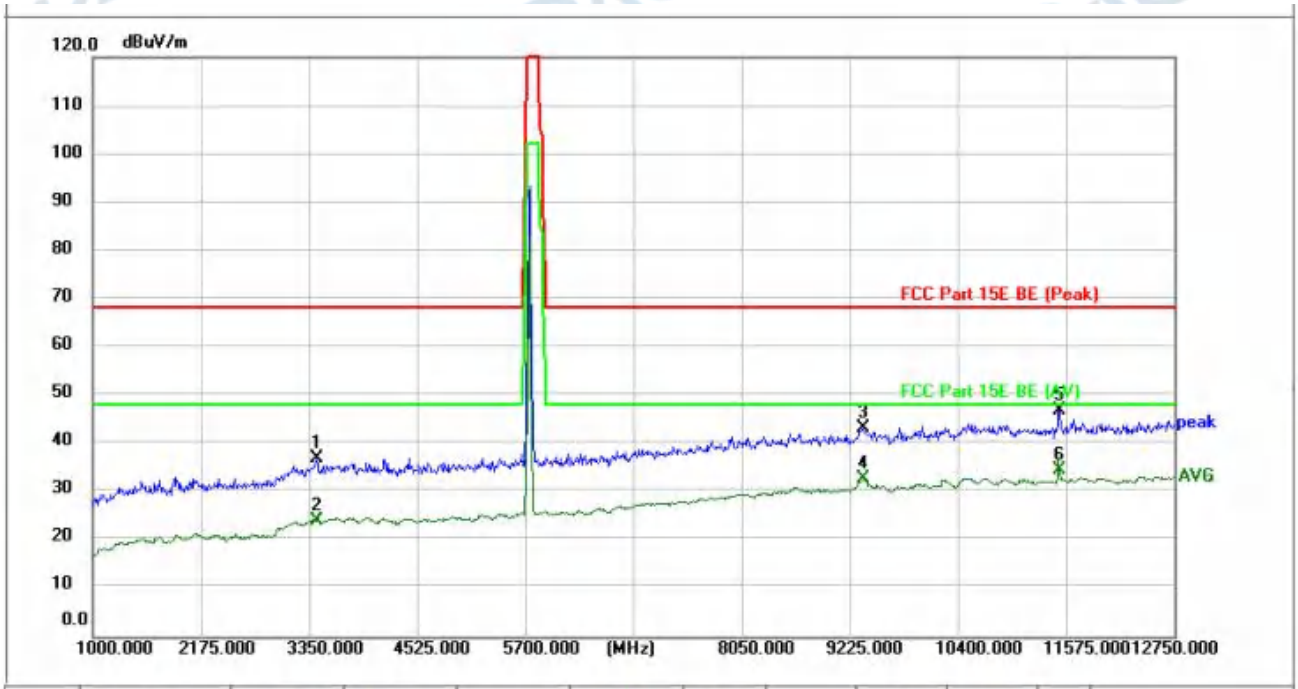


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3596.750	40.30	-3.87	36.43	68.20	-31.77	peak			P	
2	3596.750	28.56	-3.87	24.69	48.20	-23.51	AVG			P	
3	8802.000	36.63	6.46	43.09	68.20	-25.11	peak			P	
4	8802.000	24.03	6.46	30.49	48.20	-17.71	AVG			P	
5	10482.250	42.99	7.58	50.57	68.20	-17.63	peak			P	
6 *	10482.250	30.86	7.58	38.44	48.20	-9.76	AVG			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

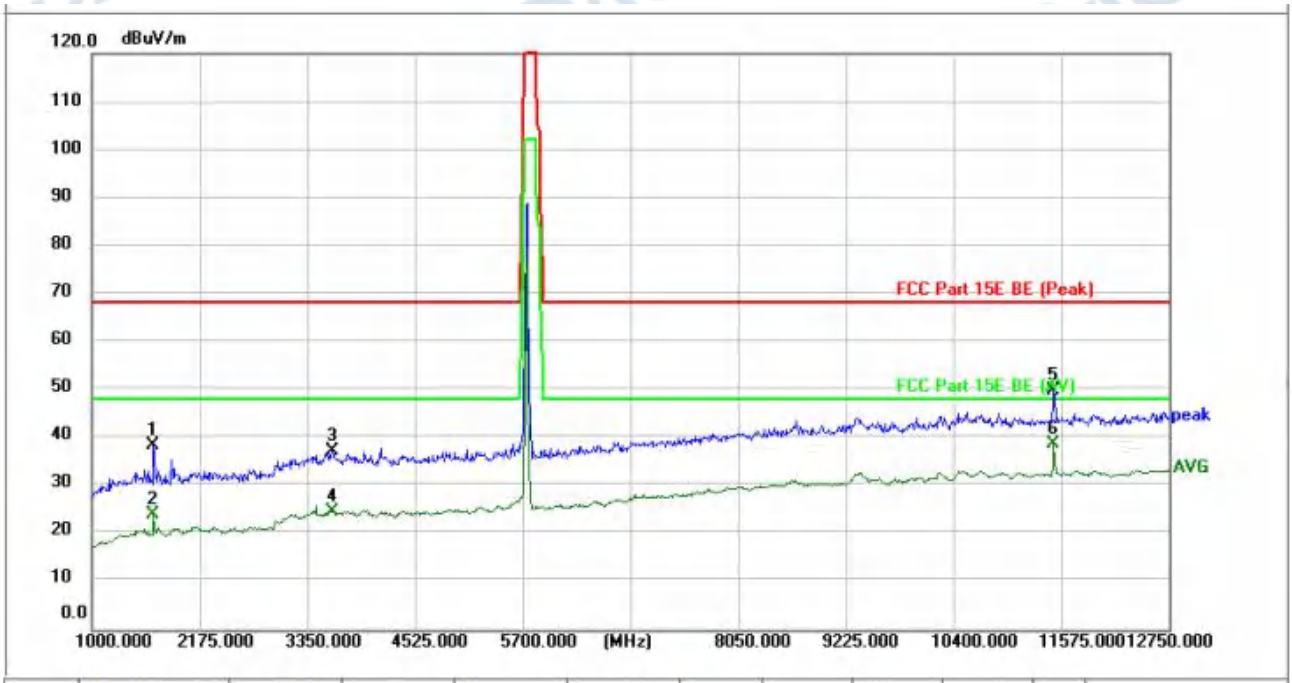
All modes have been tested, and the test results show that a-mode data is the worst, only a-mode test chart is put. Test Mode: 802.11a20 low channel (the worst)

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: L



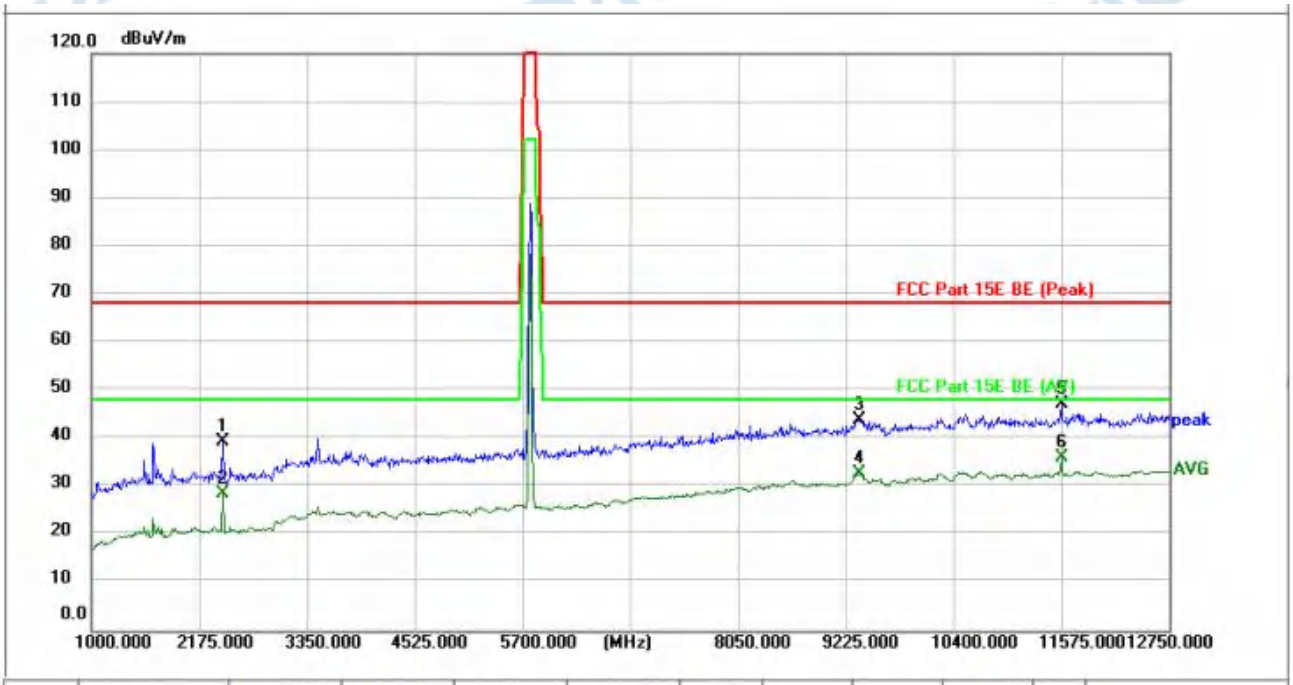
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	3432.250	41.44	-4.35	37.09	68.20	-31.11	peak	149		P	
2	3432.250	28.52	-4.35	24.17	48.20	-24.03	AVG	149		P	
3	9366.000	36.41	6.80	43.21	68.20	-24.99	peak	149		P	
4	9366.000	25.92	6.80	32.72	48.20	-15.48	AVG	149		P	
5	11504.500	39.30	7.62	46.92	68.20	-21.28	peak	149		P	
6 *	11504.500	26.96	7.62	34.58	48.20	-13.62	AVG	149		P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: L



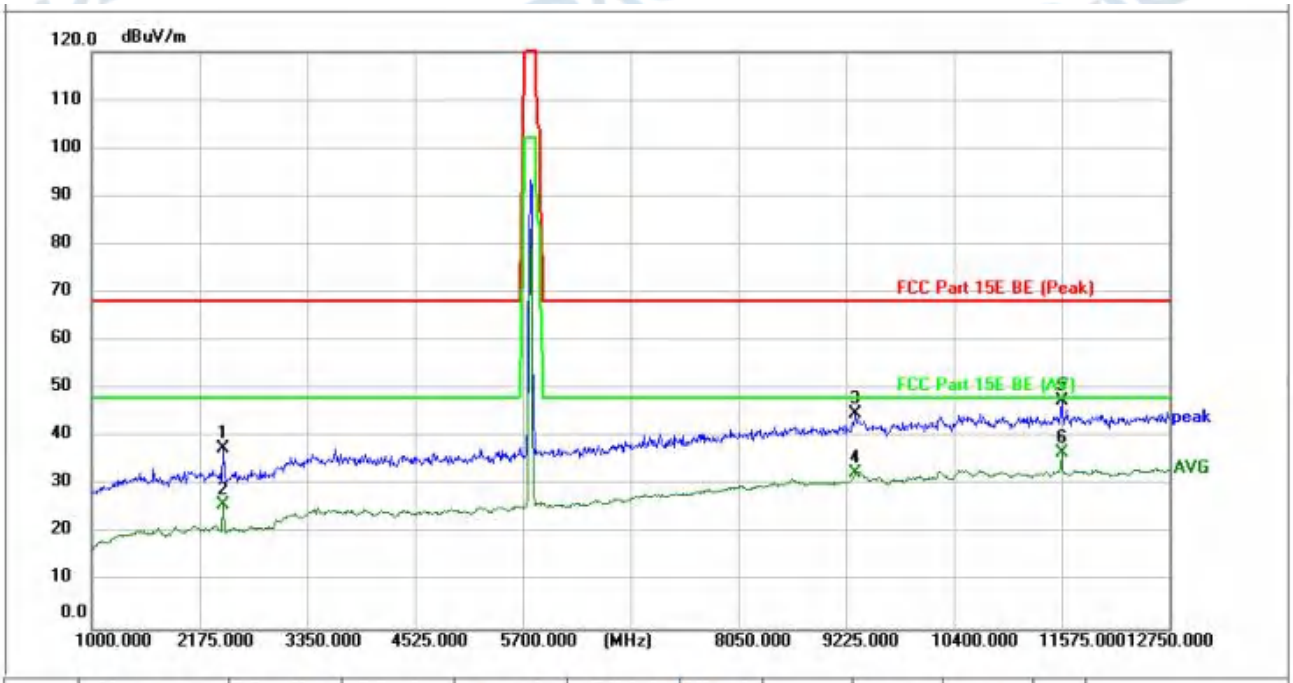
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1669.750	46.97	-8.46	38.51	68.20	-29.69	peak			P	
2	1669.750	32.65	-8.46	24.19	48.20	-24.01	AVG			P	
3	3620.250	41.18	-3.82	37.36	68.20	-30.84	peak			P	
4	3620.250	28.60	-3.82	24.78	48.20	-23.42	AVG			P	
5	11492.750	42.37	7.62	49.99	68.20	-18.21	peak			P	
6 *	11492.750	31.21	7.62	38.83	48.20	-9.37	AVG			P	

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: M



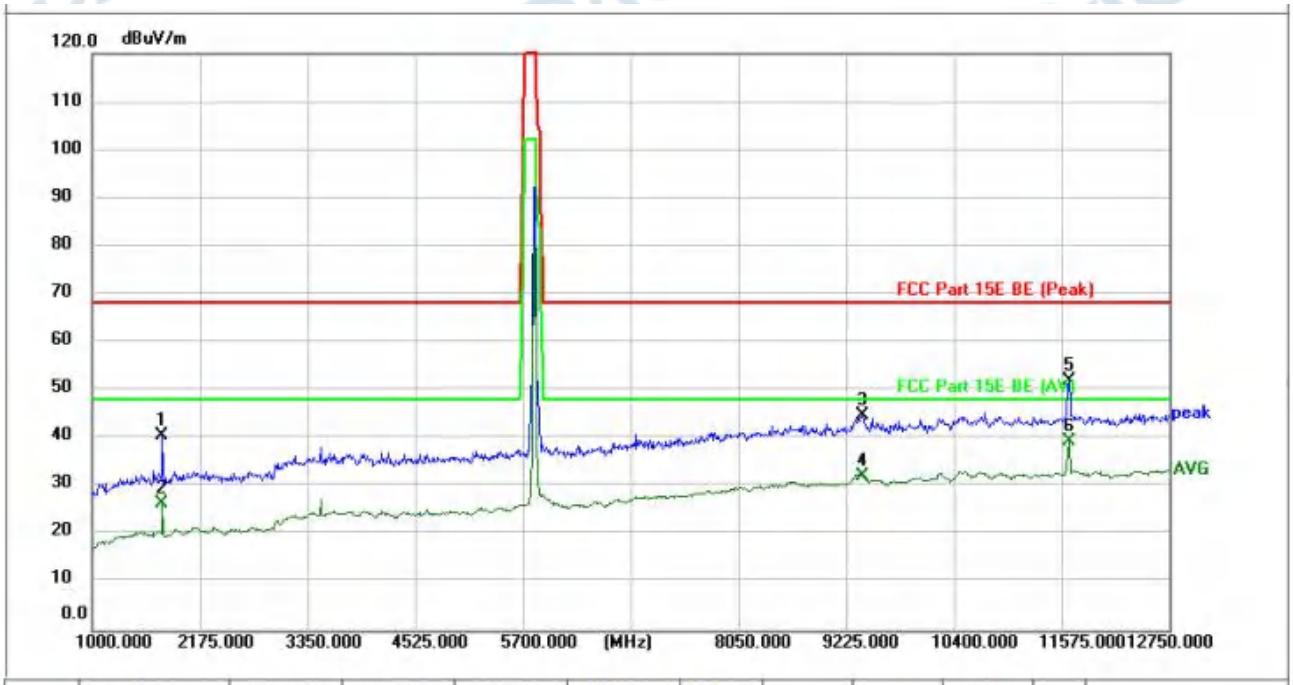
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2433.500	46.20	-6.61	39.59	68.20	-28.61	peak			P	
2	2433.500	35.13	-6.61	28.52	48.20	-19.68	AVG			P	
3	9377.750	37.26	6.79	44.05	68.20	-24.15	peak			P	
4	9377.750	25.97	6.79	32.76	48.20	-15.44	AVG			P	
5	11575.000	39.76	7.61	47.37	68.20	-20.83	peak			P	
6 *	11575.000	28.65	7.61	36.26	48.20	-11.94	AVG			P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: M



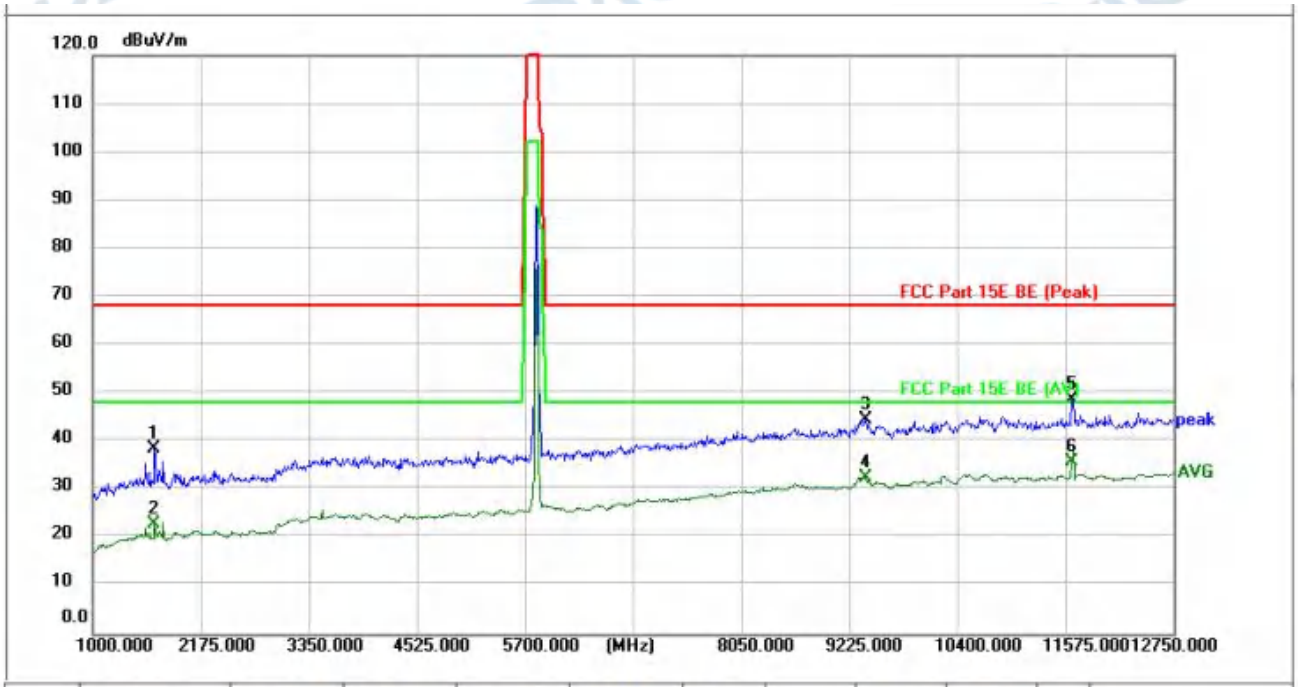
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2433.500	44.20	-6.61	37.59	68.20	-30.61	peak	149		P	
2	2433.500	32.46	-6.61	25.85	48.20	-22.35	AVG	149		P	
3	9330.750	37.98	6.79	44.77	68.20	-23.43	peak	149		P	
4	9330.750	25.76	6.79	32.55	48.20	-15.65	AVG	149		P	
5	11575.000	39.96	7.61	47.57	68.20	-20.63	peak	149		P	
6 *	11575.000	29.20	7.61	36.81	48.20	-11.39	AVG	149		P	

TM2 / Polarization: Horizontal / Band: 5725-5850 MHz / BW: 20 / CH: H



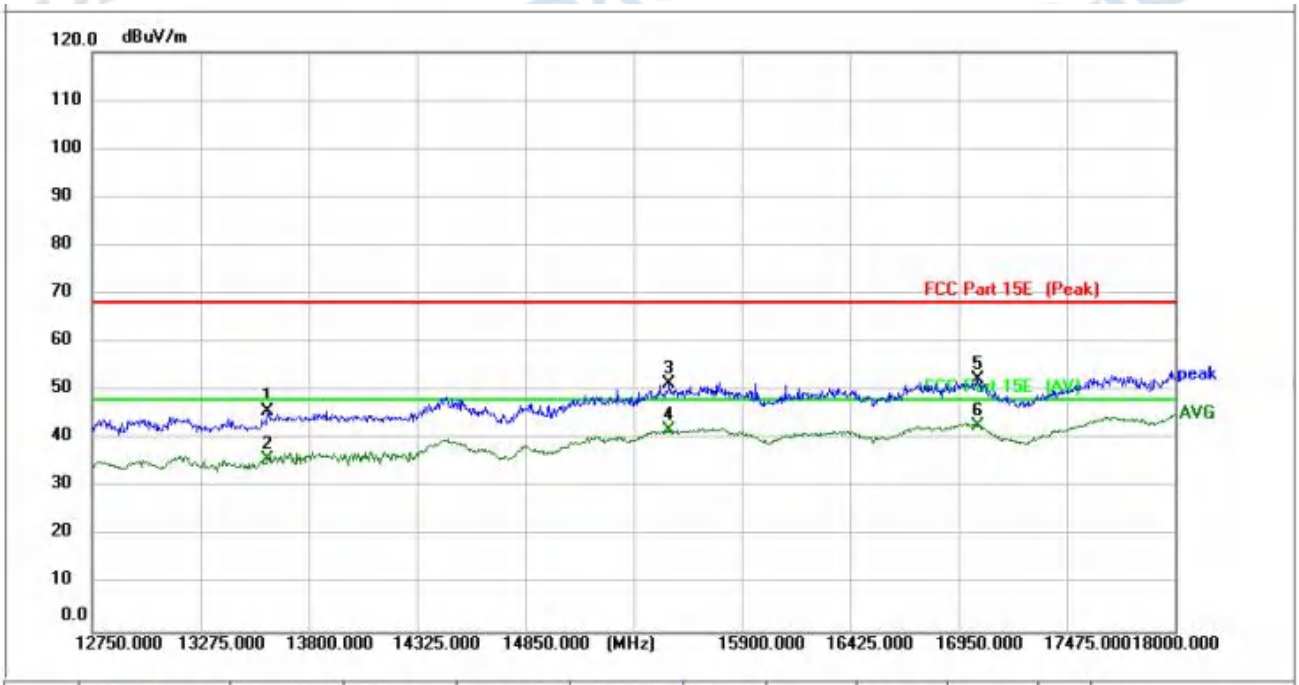
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1763.750	48.90	-8.17	40.73	68.20	-27.47	peak	149		P	
2	1763.750	34.78	-8.17	26.61	48.20	-21.59	AVG	149		P	
3	9401.250	38.19	6.80	44.99	68.20	-23.21	peak	149		P	
4	9401.250	25.59	6.80	32.39	48.20	-15.81	AVG	149		P	
5	11657.250	44.37	7.61	51.98	68.20	-16.22	peak	149		P	
6 *	11657.250	31.85	7.61	39.46	48.20	-8.74	AVG	149		P	

TM2 / Polarization: Vertical / Band: 5725-5850 MHz / BW: 20 / CH: H



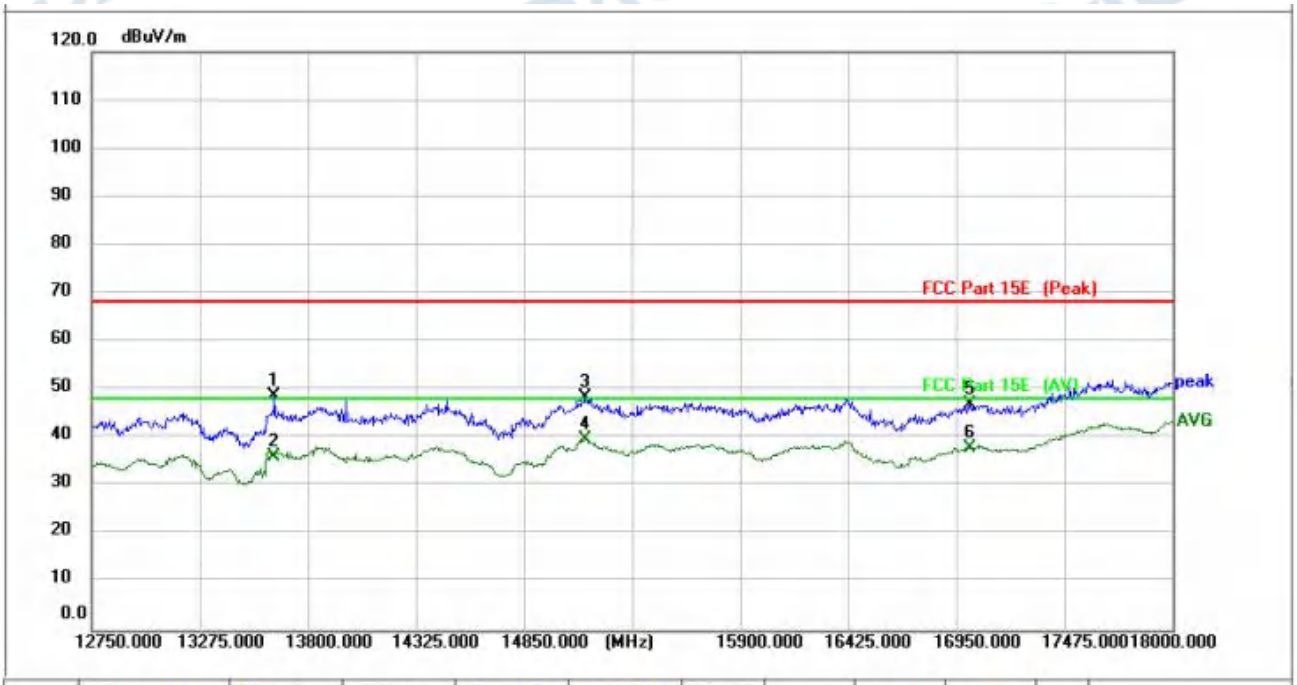
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1669.750	47.09	-8.46	38.63	68.20	-29.57	peak			P	
2	1669.750	31.48	-8.46	23.02	48.20	-25.18	AVG			P	
3	9401.250	37.76	6.80	44.56	68.20	-23.64	peak			P	
4	9401.250	25.83	6.80	32.63	48.20	-15.57	AVG			P	
5	11645.500	41.08	7.61	48.69	68.20	-19.51	peak			P	
6 *	11645.500	28.20	7.61	35.81	48.20	-12.39	AVG			P	

TM1 / Polarization: Horizontal / Noise Floor



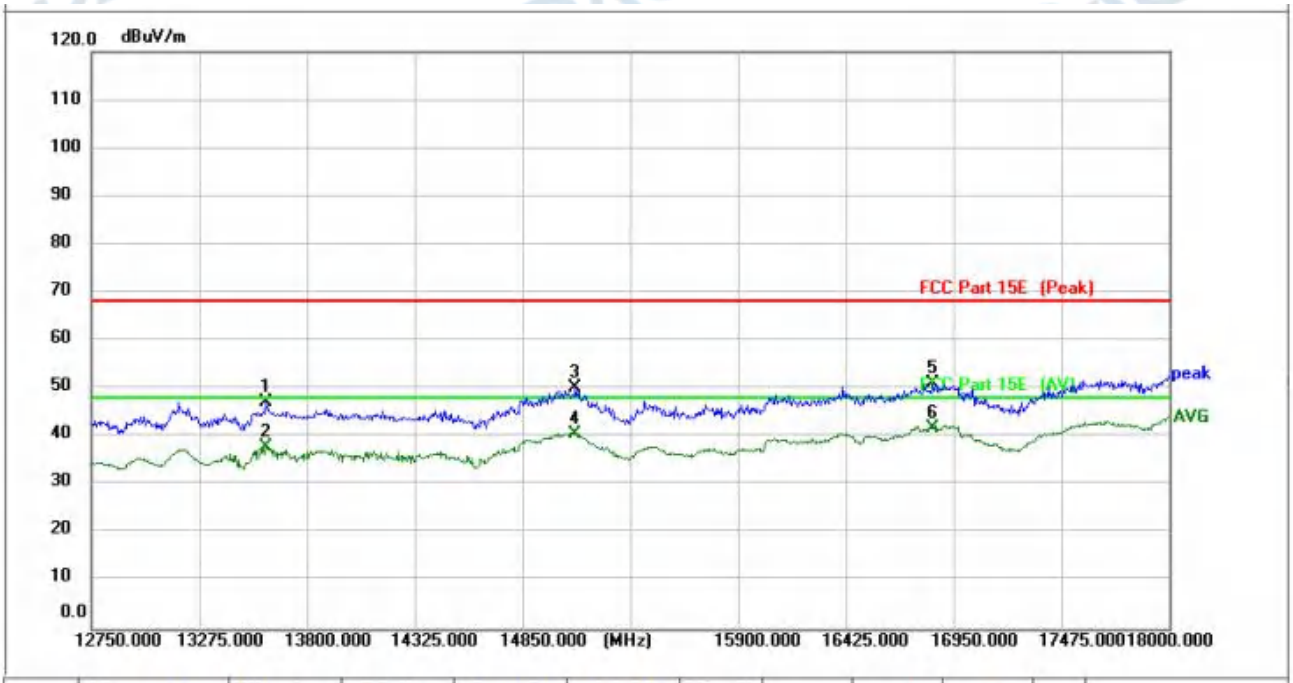
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	13600.500	37.03	8.60	45.63	68.20	-22.57	peak			P	
2	13600.500	27.35	8.60	35.95	48.20	-12.25	AVG			P	
3	15548.250	42.33	9.19	51.52	68.20	-16.68	peak			P	
4	15548.250	32.52	9.19	41.71	48.20	-6.49	AVG			P	
5	17044.500	39.16	13.11	52.27	68.20	-15.93	peak			P	
6 *	17044.500	29.79	13.11	42.90	48.20	-5.30	AVG			P	

TM1 / Polarization: Vertical / Noise Floor



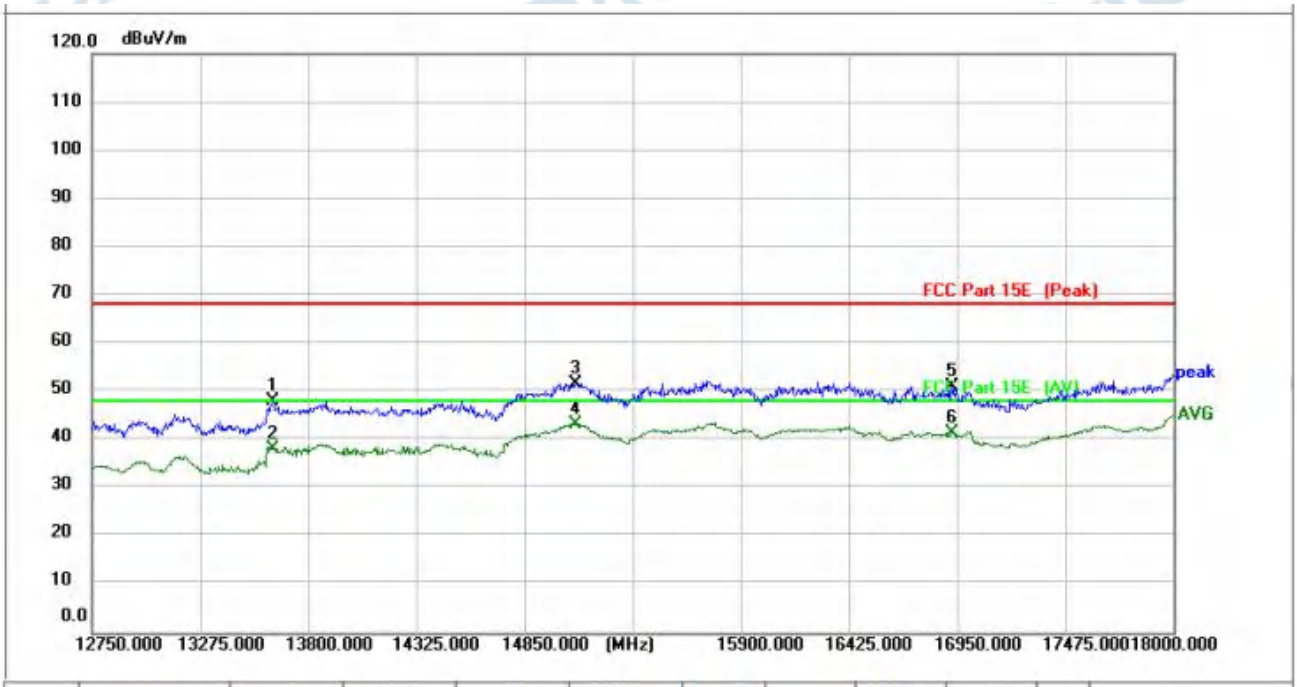
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	13637.250	40.15	8.59	48.74	68.20	-19.46	peak			P	
2	13637.250	27.50	8.59	36.09	48.20	-12.11	AVG			P	
3	15144.000	39.66	8.82	48.48	68.20	-19.72	peak			P	
4 *	15144.000	31.02	8.82	39.84	48.20	-8.36	AVG			P	
5	17013.000	33.97	12.99	46.96	68.20	-21.24	peak			P	
6	17013.000	24.96	12.99	37.95	48.20	-10.25	AVG			P	

TM1 / Polarization: Horizontal / Noise Floor



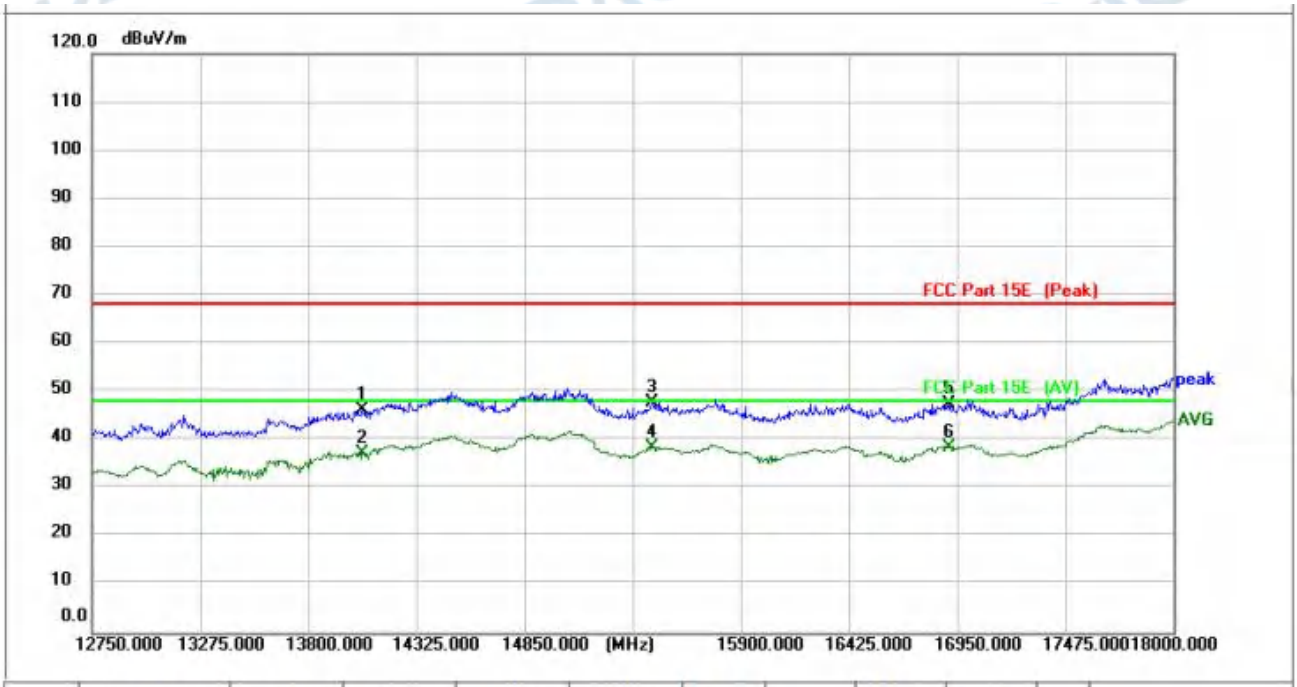
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	13600.500	38.52	8.60	47.12	68.20	-21.08	peak			P	
2	13600.500	29.39	8.60	37.99	48.20	-10.21	AVG			P	
3	15107.250	41.42	8.78	50.20	68.20	-18.00	peak			P	
4	15107.250	31.86	8.78	40.64	48.20	-7.56	AVG			P	
5	16850.250	38.97	12.21	51.18	68.20	-17.02	peak			P	
6 *	16850.250	29.66	12.21	41.87	48.20	-6.33	AVG			P	

TM1 / Polarization: Vertical / Noise Floor



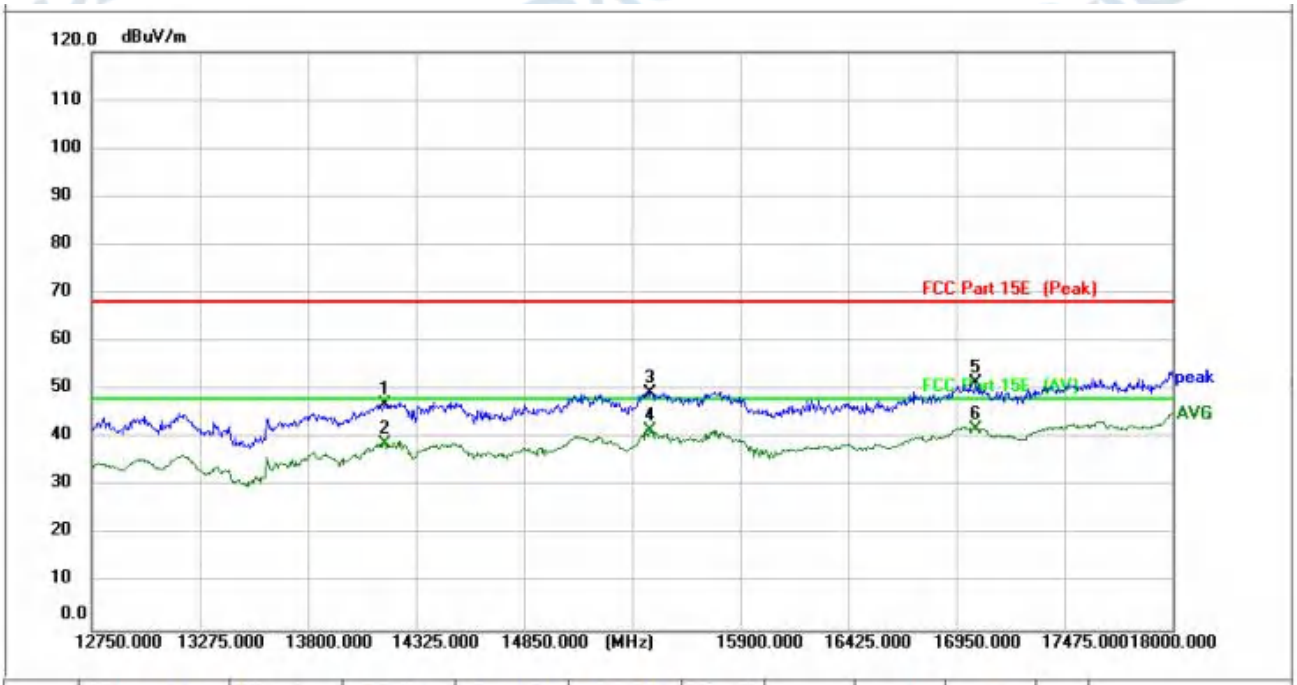
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	13626.750	39.42	8.59	48.01	68.20	-20.19	peak			P	
2	13626.750	29.78	8.59	38.37	48.20	-9.83	AVG			P	
3	15096.750	43.12	8.78	51.90	68.20	-16.30	peak			P	
4 *	15096.750	34.48	8.78	43.26	48.20	-4.94	AVG			P	
5	16923.750	38.56	12.56	51.12	68.20	-17.08	peak			P	
6	16923.750	28.90	12.56	41.46	48.20	-6.74	AVG			P	

TM1 / Polarization: Horizontal / Noise Floor



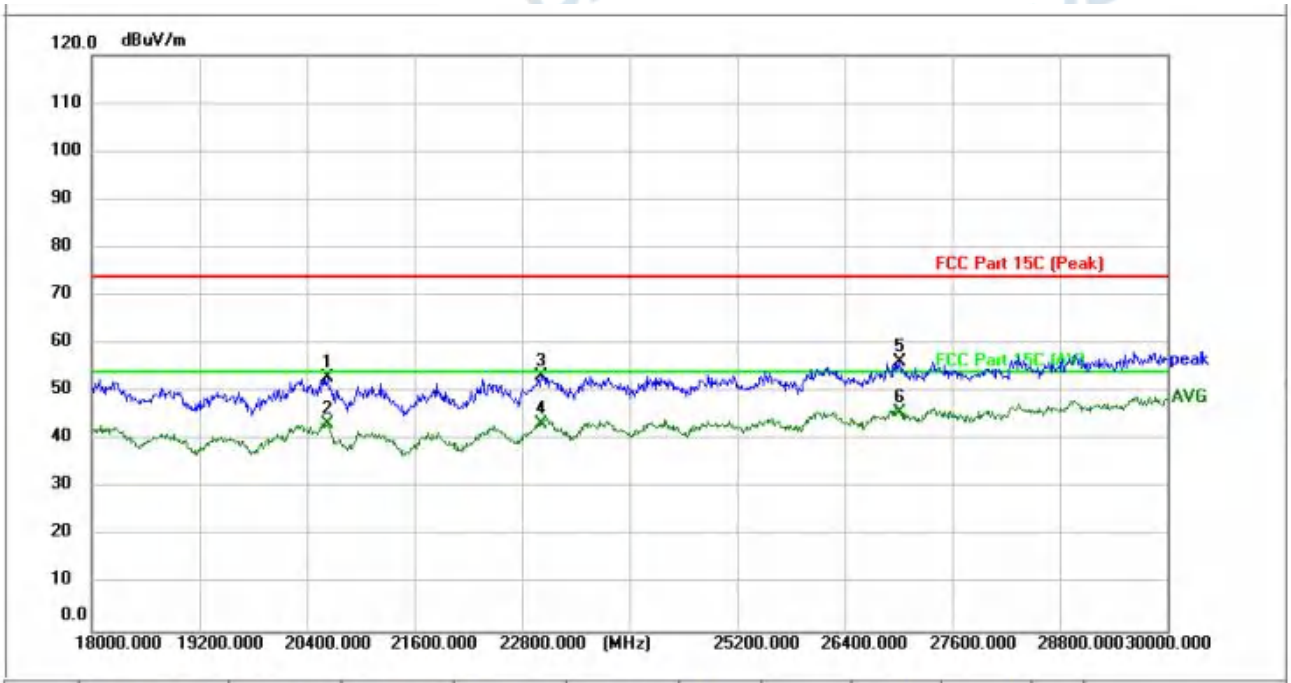
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	14062.500	37.69	8.57	46.26	68.20	-21.94	peak			P	
2	14062.500	28.87	8.57	37.44	48.20	-10.76	AVG			P	
3	15469.500	38.85	9.07	47.92	68.20	-20.28	peak			P	
4	15469.500	29.52	9.07	38.59	48.20	-9.61	AVG			P	
5	16913.250	34.93	12.51	47.44	68.20	-20.76	peak			P	
6 *	16913.250	26.12	12.51	38.63	48.20	-9.57	AVG			P	

TM1 / Polarization: Vertical / Noise Floor



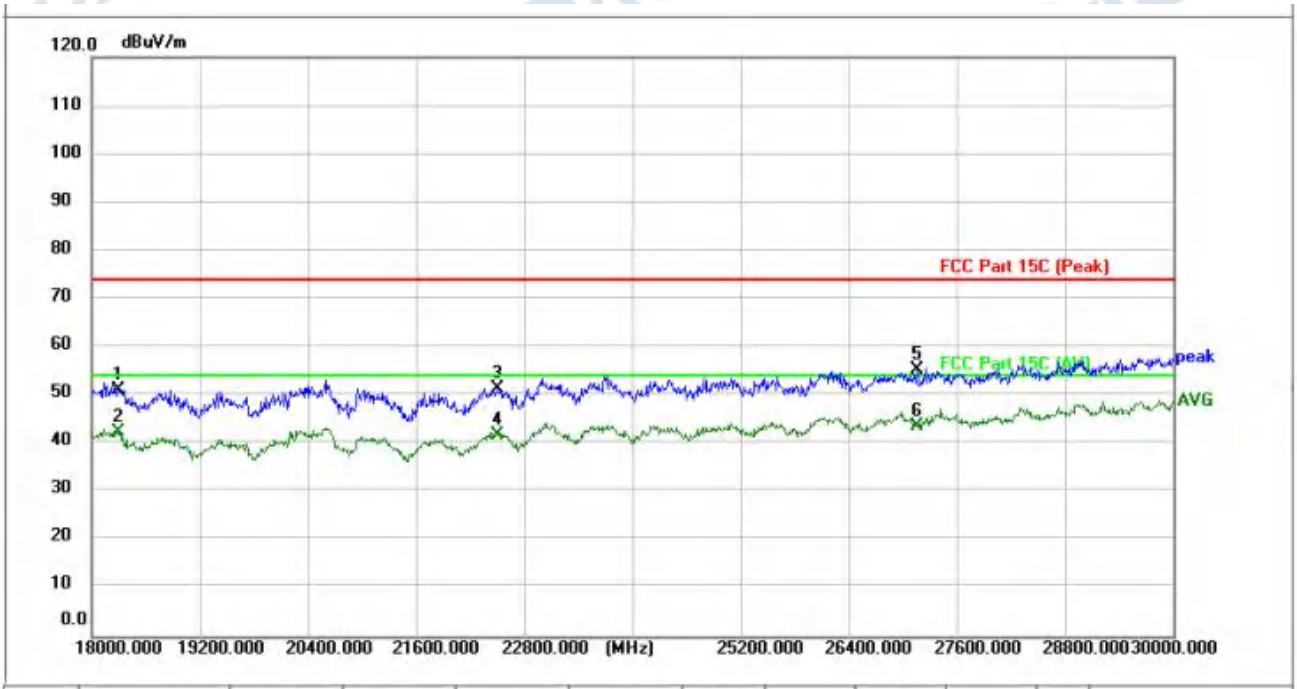
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	14172.750	38.50	8.58	47.08	68.20	-21.12	peak			P	
2	14172.750	30.26	8.58	38.84	48.20	-9.36	AVG			P	
3	15459.000	40.30	9.08	49.38	68.20	-18.82	peak			P	
4	15459.000	32.37	9.08	41.45	48.20	-6.75	AVG			P	
5	17044.500	38.32	13.11	51.43	68.20	-16.77	peak			P	
6 *	17044.500	28.86	13.11	41.97	48.20	-6.23	AVG			P	

TM1 / Polarization: Horizontal / Noise Floor



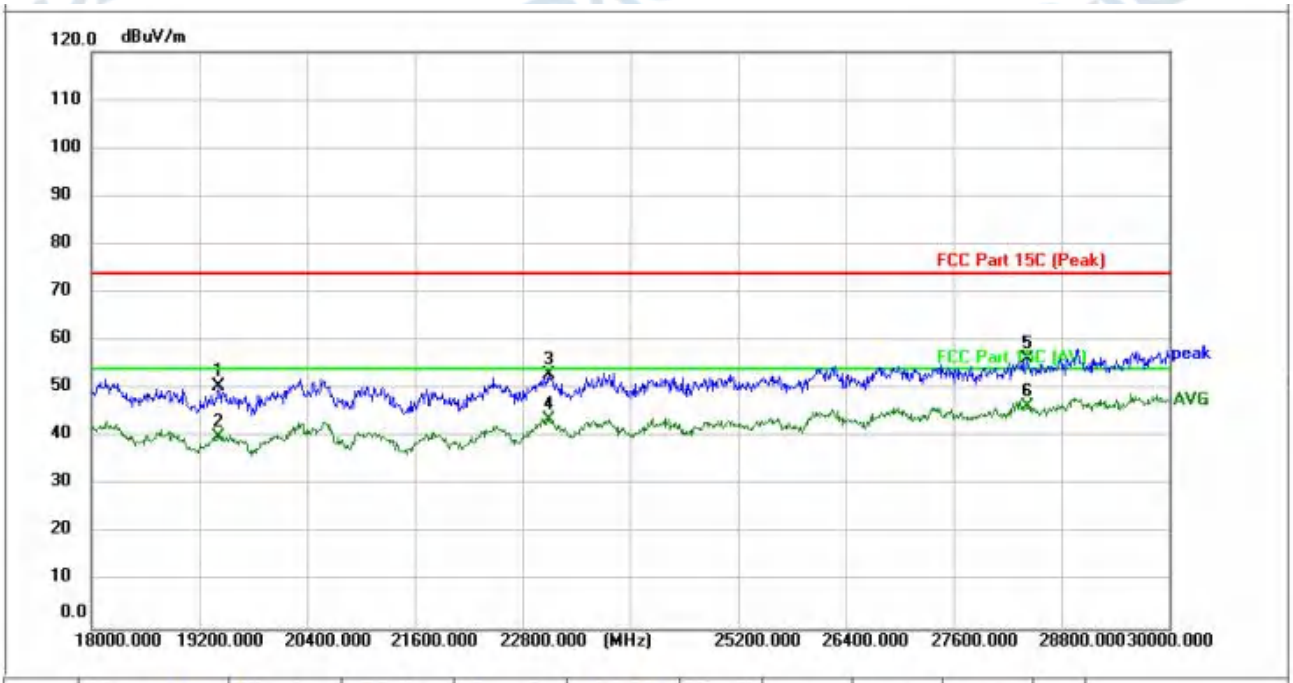
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	20628.000	48.60	4.47	53.07	74.00	-20.93	peak	149		P	
2	20628.000	38.74	4.47	43.21	54.00	-10.79	AVG	149		P	
3	23016.000	47.59	5.79	53.38	74.00	-20.62	peak	149		P	
4	23016.000	37.52	5.79	43.31	54.00	-10.69	AVG	149		P	
5	27012.000	48.11	8.28	56.39	74.00	-17.61	peak	149		P	
6 *	27012.000	37.33	8.28	45.61	54.00	-8.39	AVG	149		P	

TM1 / Polarization: Vertical / Noise Floor



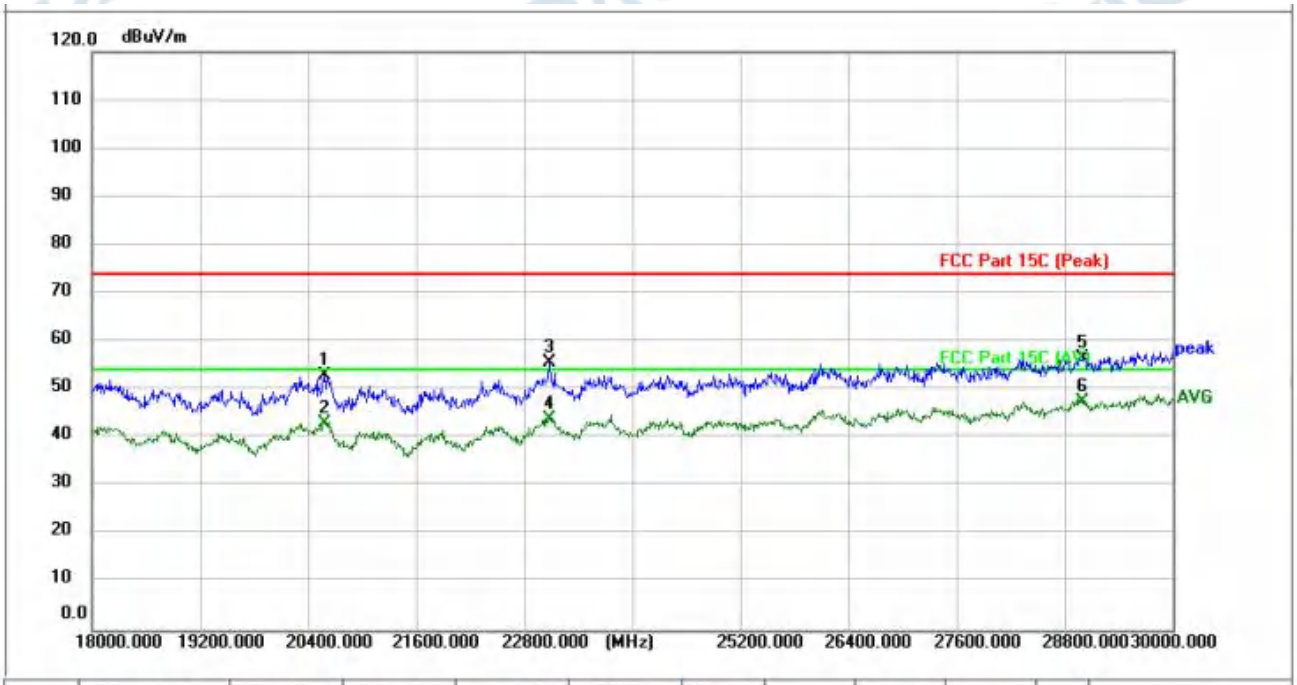
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	18300.000	45.17	6.07	51.24	74.00	-22.76	peak	149		P	
2	18300.000	36.35	6.07	42.42	54.00	-11.58	AVG	149		P	
3	22500.000	46.76	4.81	51.57	74.00	-22.43	peak	149		P	
4	22500.000	37.05	4.81	41.86	54.00	-12.14	AVG	149		P	
5	27156.000	46.82	8.38	55.20	74.00	-18.80	peak	149		P	
6 *	27156.000	35.39	8.38	43.77	54.00	-10.23	AVG	149		P	

TM1 / Polarization: Horizontal / Noise Floor



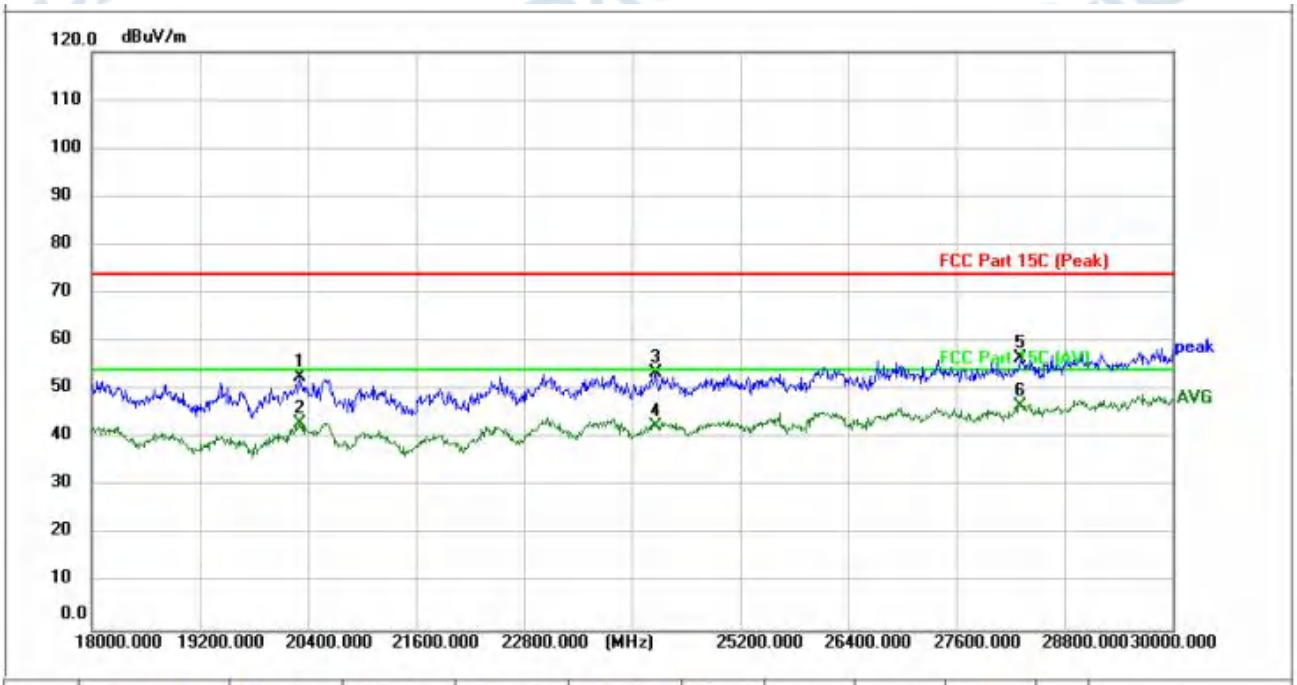
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19416.000	45.61	4.89	50.50	74.00	-23.50	peak	149		P	
2	19416.000	35.13	4.89	40.02	54.00	-13.98	AVG	149		P	
3	23088.000	47.06	5.77	52.83	74.00	-21.17	peak	149		P	
4	23088.000	37.79	5.77	43.56	54.00	-10.44	AVG	149		P	
5	28428.000	46.74	9.45	56.19	74.00	-17.81	peak	149		P	
6 *	28428.000	36.96	9.45	46.41	54.00	-7.59	AVG	149		P	

TM1 / Polarization: Vertical / Noise Floor



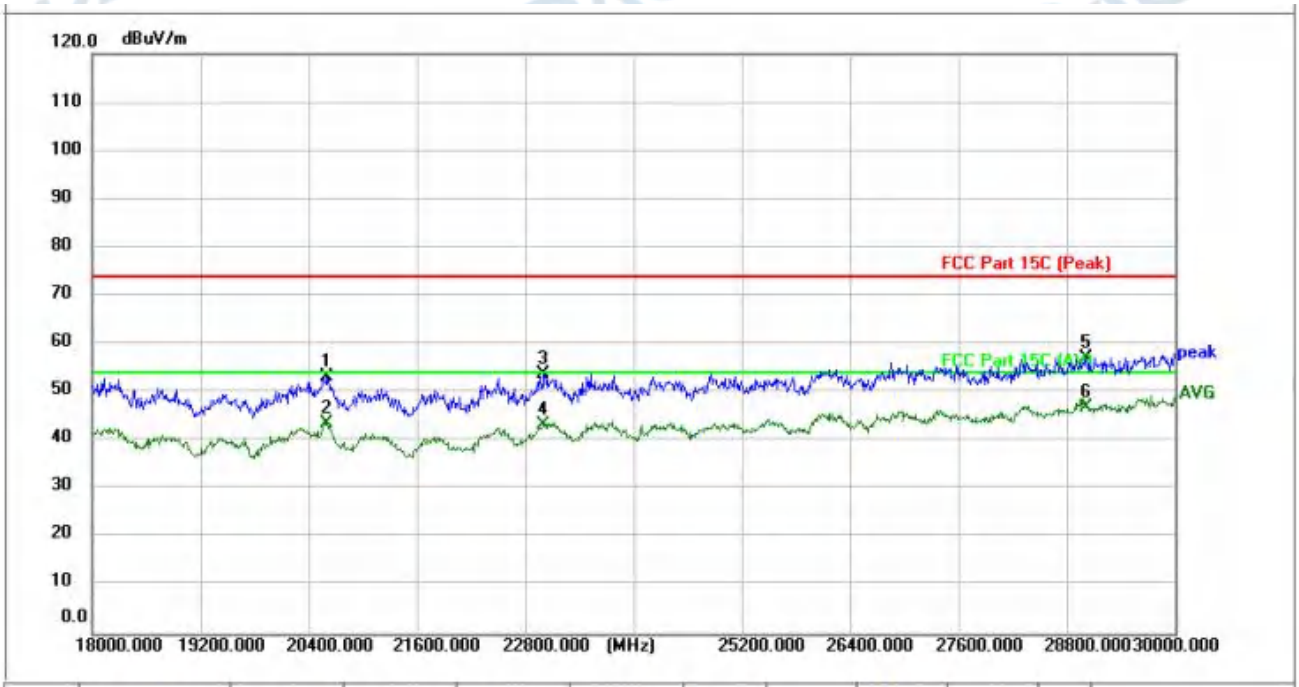
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	20580.000	48.39	4.48	52.87	74.00	-21.13	peak	149		P	
2	20580.000	38.67	4.48	43.15	54.00	-10.85	AVG	149		P	
3	23076.000	49.76	5.78	55.54	74.00	-18.46	peak	149		P	
4	23076.000	38.28	5.78	44.06	54.00	-9.94	AVG	149		P	
5	28992.000	46.55	10.12	56.67	74.00	-17.33	peak	149		P	
6 *	28992.000	37.52	10.12	47.64	54.00	-6.36	AVG	149		P	

TM1 / Polarization: Horizontal / Noise Floor



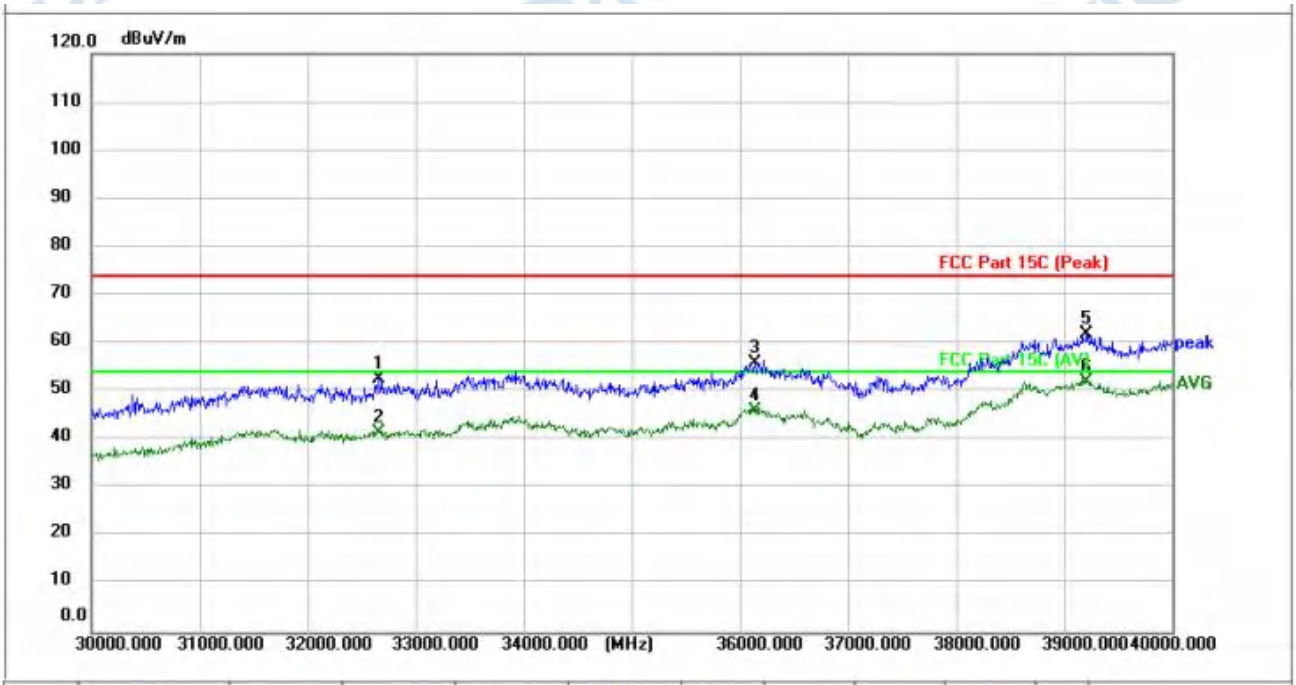
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	20304.000	48.02	4.51	52.53	74.00	-21.47	peak	149		P	
2	20304.000	38.54	4.51	43.05	54.00	-10.95	AVG	149		P	
3	24264.000	48.19	5.37	53.56	74.00	-20.44	peak	149		P	
4	24264.000	37.03	5.37	42.40	54.00	-11.60	AVG	149		P	
5	28308.000	47.35	9.31	56.66	74.00	-17.34	peak	149		P	
6 *	28308.000	37.45	9.31	46.76	54.00	-7.24	AVG	149		P	

TM1 / Polarization: Vertical / Noise Floor



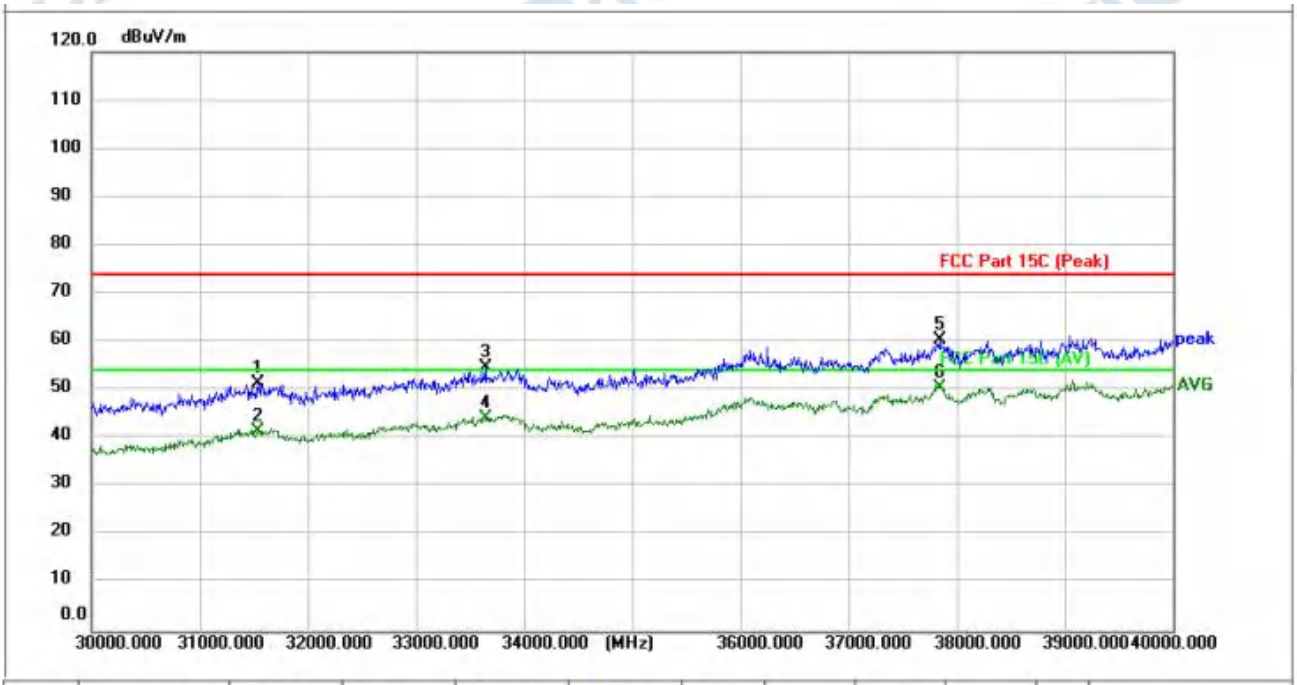
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	20604.000	48.68	4.48	53.16	74.00	-20.84	peak	149		P	
2	20604.000	39.04	4.48	43.52	54.00	-10.48	AVG	149		P	
3	23004.000	48.08	5.80	53.88	74.00	-20.12	peak	149		P	
4	23004.000	37.68	5.80	43.48	54.00	-10.52	AVG	149		P	
5	29016.000	47.07	10.12	57.19	74.00	-16.81	peak	149		P	
6 *	29016.000	36.94	10.12	47.06	54.00	-6.94	AVG	149		P	

TM1 / Polarization: Horizontal / Noise Floor



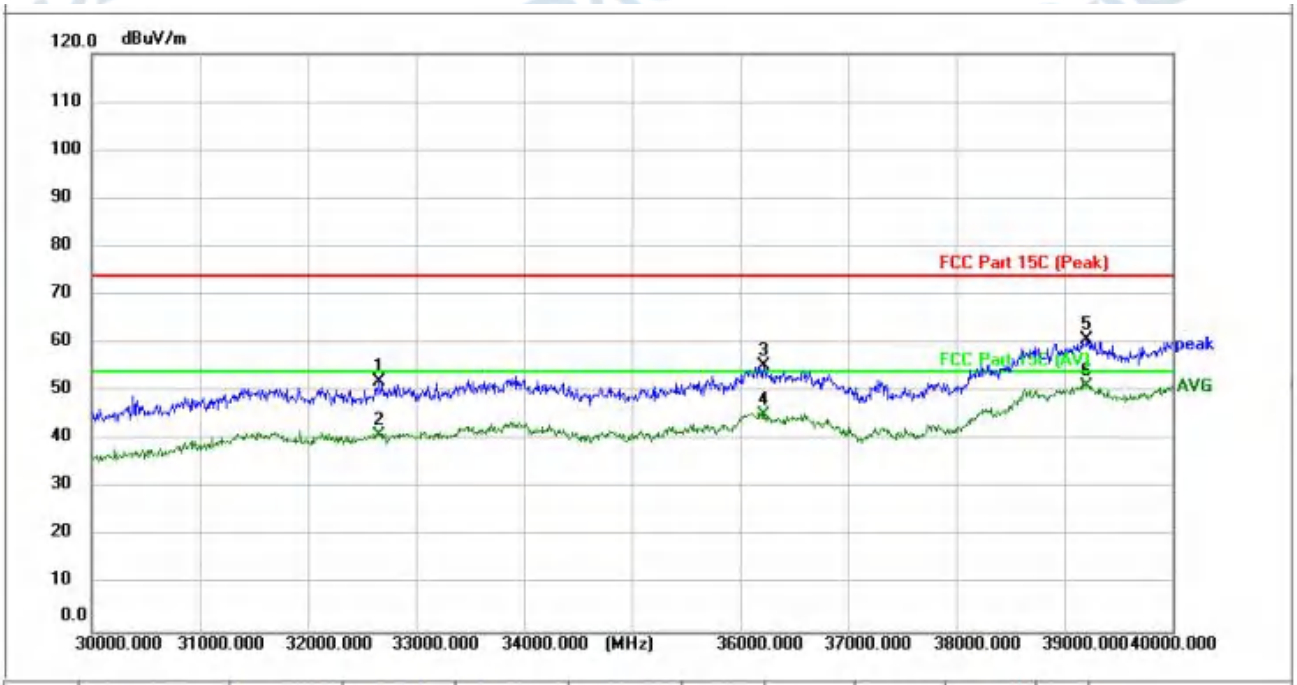
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32660.000	38.95	13.61	52.56	74.00	-21.44	peak	149		P	
2	32660.000	27.94	13.61	41.55	54.00	-12.45	AVG	149		P	
3	36140.000	39.96	16.09	56.05	74.00	-17.95	peak	149		P	
4	36140.000	29.88	16.09	45.97	54.00	-8.03	AVG	149		P	
5	39210.000	46.66	15.23	61.89	74.00	-12.11	peak	149		P	
6 *	39210.000	36.93	15.23	52.16	54.00	-1.84	AVG	149		P	

TM1 / Polarization: Vertical / Noise Floor



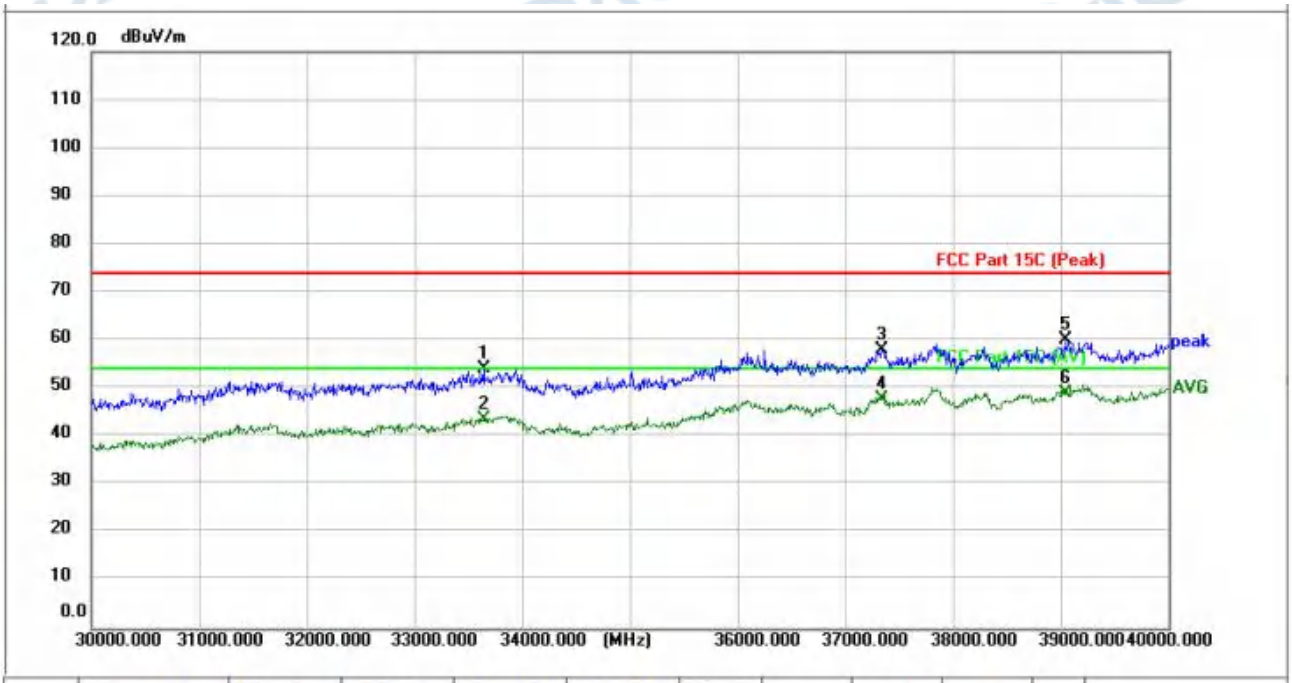
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31540.000	40.53	10.99	51.52	74.00	-22.48	peak	149		P	
2	31540.000	30.62	10.99	41.61	54.00	-12.39	AVG	149		P	
3	33640.000	40.11	14.64	54.75	74.00	-19.25	peak	149		P	
4	33640.000	29.56	14.64	44.20	54.00	-9.80	AVG	149		P	
5	37840.000	45.96	14.40	60.36	74.00	-13.64	peak	149		P	
6 *	37840.000	36.10	14.40	50.50	54.00	-3.50	AVG	149		P	

TM1 / Polarization: Horizontal / Noise Floor



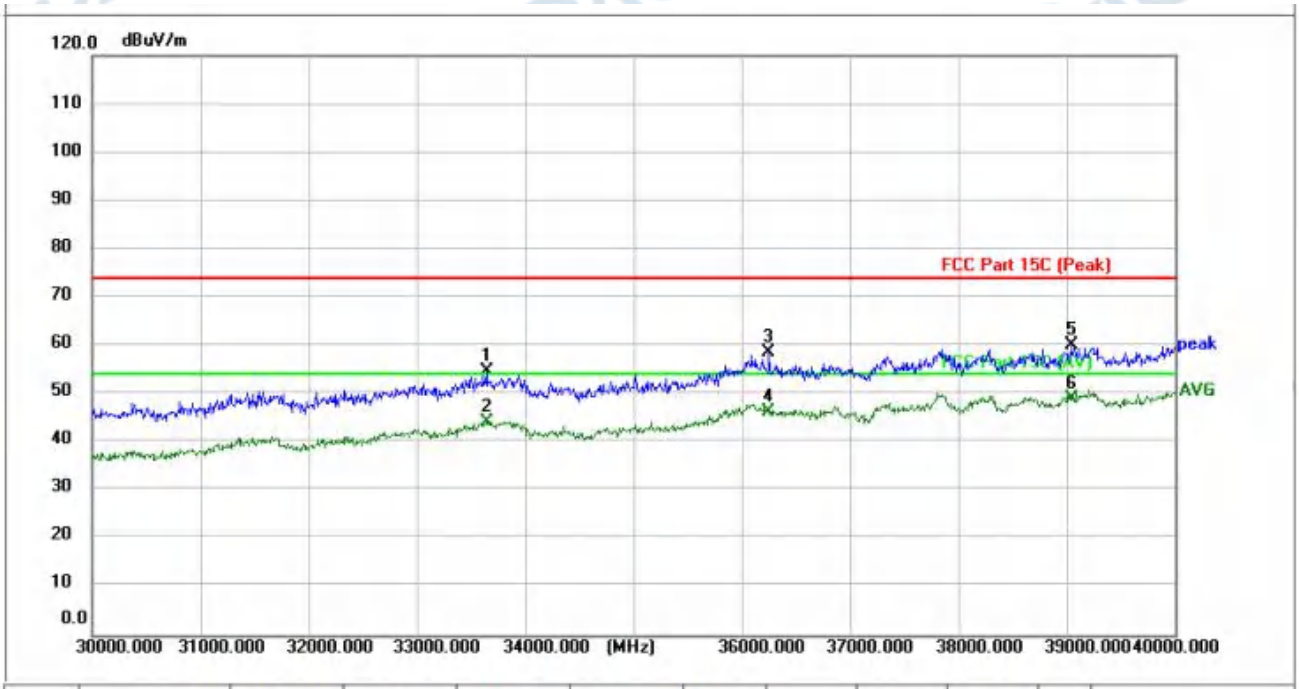
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32660.000	38.45	13.61	52.06	74.00	-21.94	peak			P	
2	32660.000	27.44	13.61	41.05	54.00	-12.95	AVG			P	
3	36220.000	39.48	15.99	55.47	74.00	-18.53	peak			P	
4	36220.000	29.02	15.99	45.01	54.00	-8.99	AVG			P	
5	39210.000	45.66	15.23	60.89	74.00	-13.11	peak			P	
6 *	39210.000	35.93	15.23	51.16	54.00	-2.84	AVG			P	

TM1 / Polarization: Vertical / Noise Floor



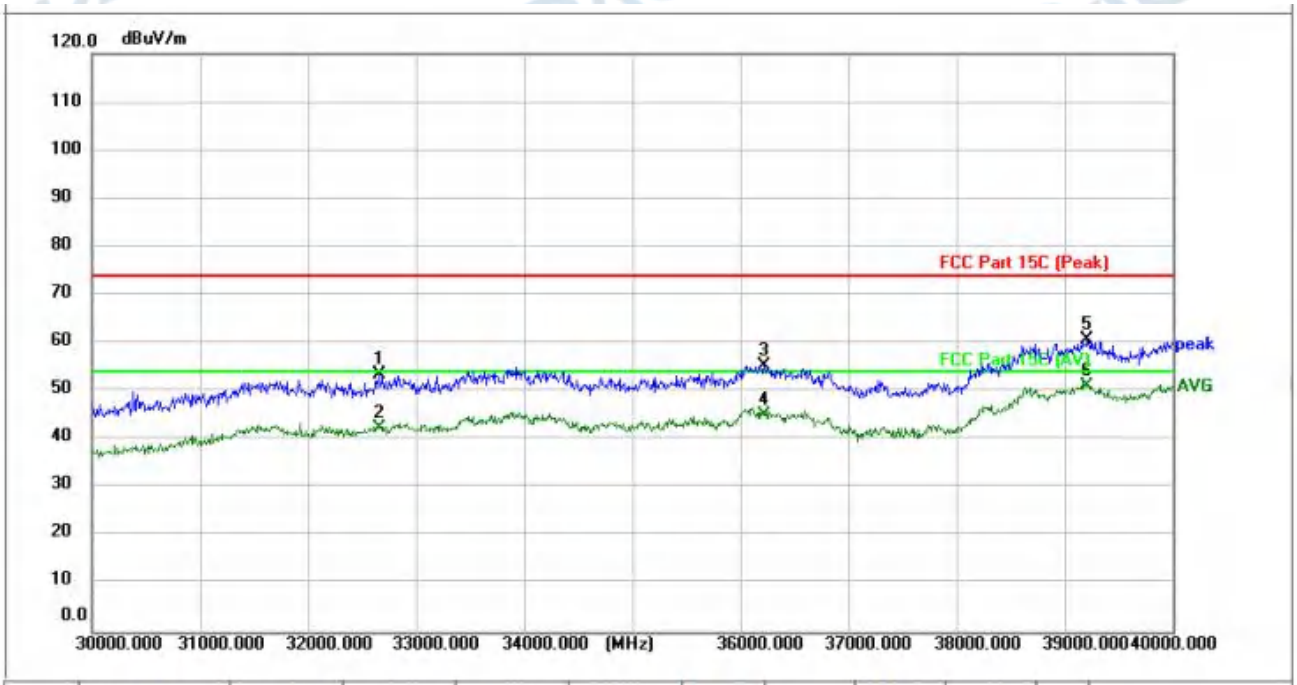
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	33640.000	39.61	14.64	54.25	74.00	-19.75	peak			P	
2	33640.000	29.06	14.64	43.70	54.00	-10.30	AVG			P	
3	37340.000	43.28	14.83	58.11	74.00	-15.89	peak			P	
4	37340.000	33.01	14.83	47.84	54.00	-6.16	AVG			P	
5	39040.000	44.75	15.46	60.21	74.00	-13.79	peak			P	
6 *	39040.000	33.67	15.46	49.13	54.00	-4.87	AVG			P	

TM1 / Polarization: Horizontal / Noise Floor



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	33640.000	40.11	14.64	54.75	74.00	-19.25	peak			P	
2	33640.000	29.56	14.64	44.20	54.00	-9.80	AVG			P	
3	36250.000	42.59	15.96	58.55	74.00	-15.45	peak			P	
4	36250.000	30.43	15.96	46.39	54.00	-7.61	AVG			P	
5	39040.000	44.75	15.46	60.21	74.00	-13.79	peak			P	
6 *	39040.000	33.67	15.46	49.13	54.00	-4.87	AVG			P	

TM1 / Polarization: Vertical / Noise Floor



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32660.000	39.95	13.61	53.56	74.00	-20.44	peak			P	
2	32660.000	28.94	13.61	42.55	54.00	-11.45	AVG			P	
3	36220.000	39.48	15.99	55.47	74.00	-18.53	peak			P	
4	36220.000	29.02	15.99	45.01	54.00	-8.99	AVG			P	
5	39210.000	45.66	15.23	60.89	74.00	-13.11	peak			P	
6 *	39210.000	35.93	15.23	51.16	54.00	-2.84	AVG			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The EUT was tested in the low, high channel and the worst case position data was reported, and the test results show that a-mode data is the worst, only a-mode test chart is put. Test Mode: 802.11a20 low channel (the worst).

Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.t

5 TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos

6 PHOTOS OF THE EUT

Refer to Appendix - EUT Photos

Appendix-5.2G

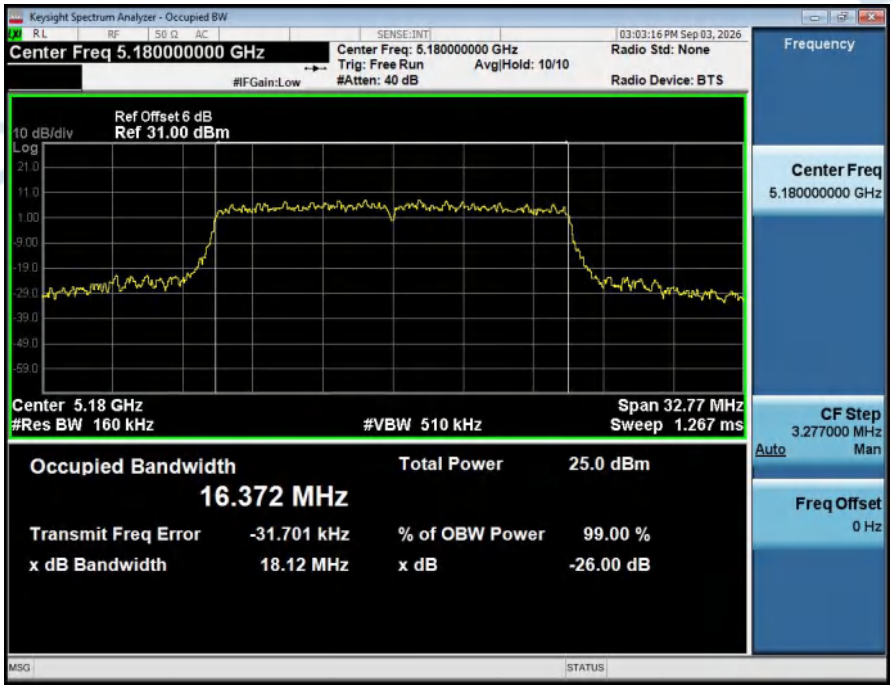
HT260831014-WIFI Moudule-FCC-5.2GWIFI

FCC_5.2G_WIFI (Part15.407) Test Data

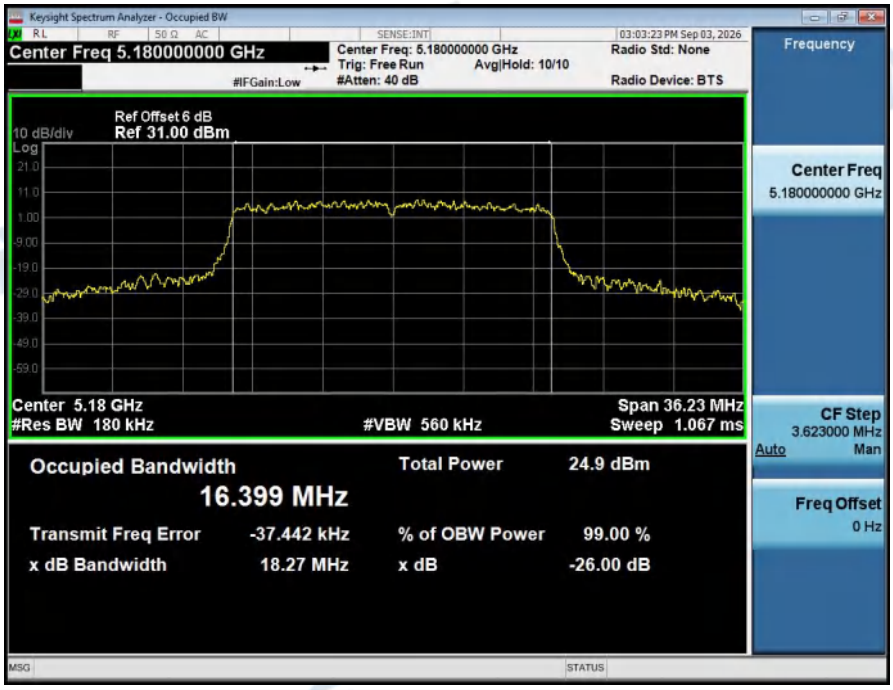
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	18.27	16.37
NVNT	ANT1	802.11a	5200.00	18.22	16.37
NVNT	ANT1	802.11a	5240.00	18.18	16.35
NVNT	ANT1	802.11n(HT20)	5180.00	21.81	17.51
NVNT	ANT1	802.11n(HT20)	5200.00	25.82	17.53
NVNT	ANT1	802.11n(HT20)	5240.00	18.85	17.49
NVNT	ANT1	802.11ac(VHT20)	5180.00	20.85	17.53
NVNT	ANT1	802.11ac(VHT20)	5200.00	19.87	17.52
NVNT	ANT1	802.11ac(VHT20)	5240.00	18.87	17.46
NVNT	ANT1	802.11ax(HE20)	5180.00	21.22	18.85
NVNT	ANT1	802.11ax(HE20)	5200.00	19.87	18.87
NVNT	ANT1	802.11ax(HE20)	5240.00	19.92	18.82
NVNT	ANT1	802.11n(HT40)	5190.00	38.97	35.94
NVNT	ANT1	802.11n(HT40)	5230.00	38.16	35.70
NVNT	ANT1	802.11ac(VHT40)	5190.00	38.76	35.92
NVNT	ANT1	802.11ac(VHT40)	5230.00	38.19	35.74
NVNT	ANT1	802.11ax(HE40)	5190.00	39.44	37.55
NVNT	ANT1	802.11ax(HE40)	5230.00	39.25	37.46
NVNT	ANT1	802.11ac(VHT80)	5210.00	78.83	75.07
NVNT	ANT1	802.11ax(HE80)	5210.00	79.91	76.55

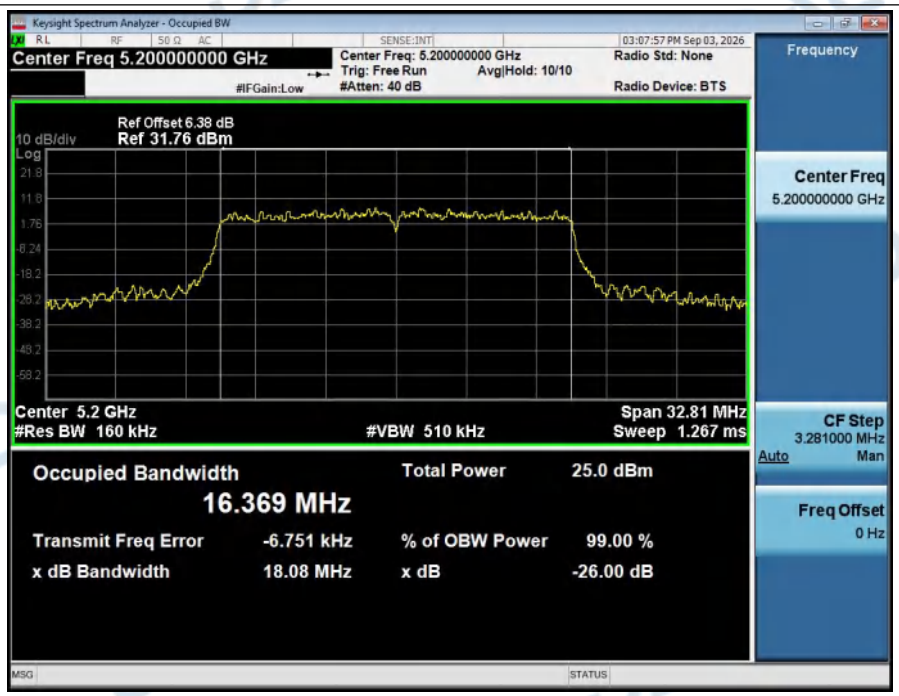
99%_OCB_NVNT_ANT1_802_11a_5180



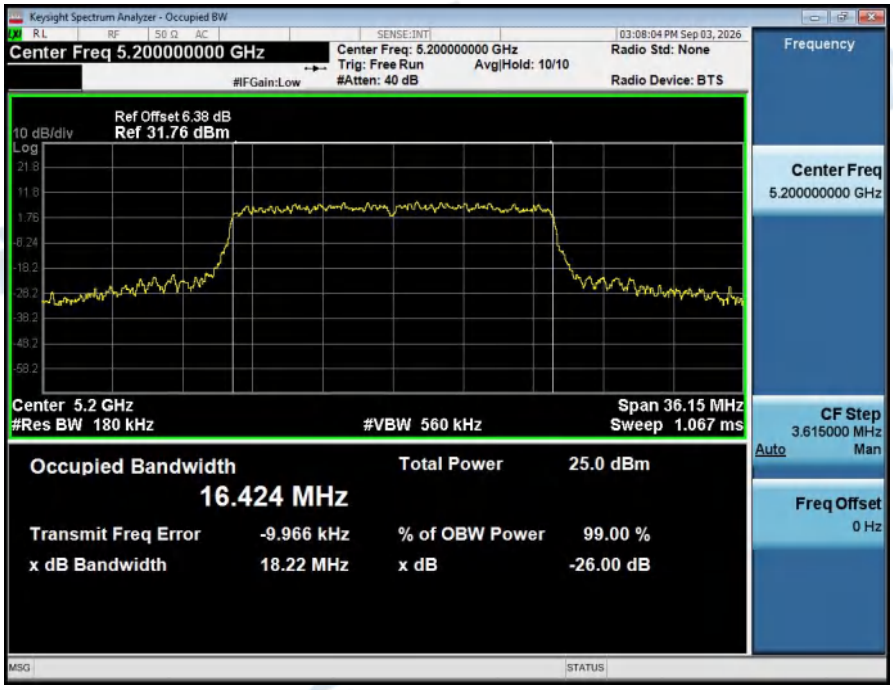
-26BW_NVNT_ANT1_802_11a_5180



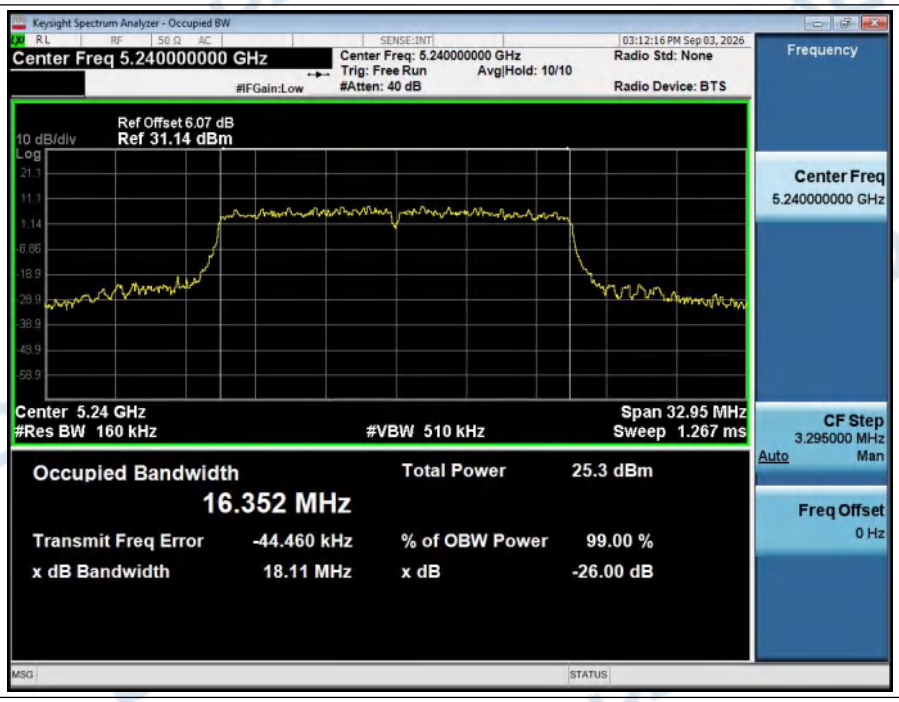
99%_OCB_NVNT_ANT1_802_11a_5200



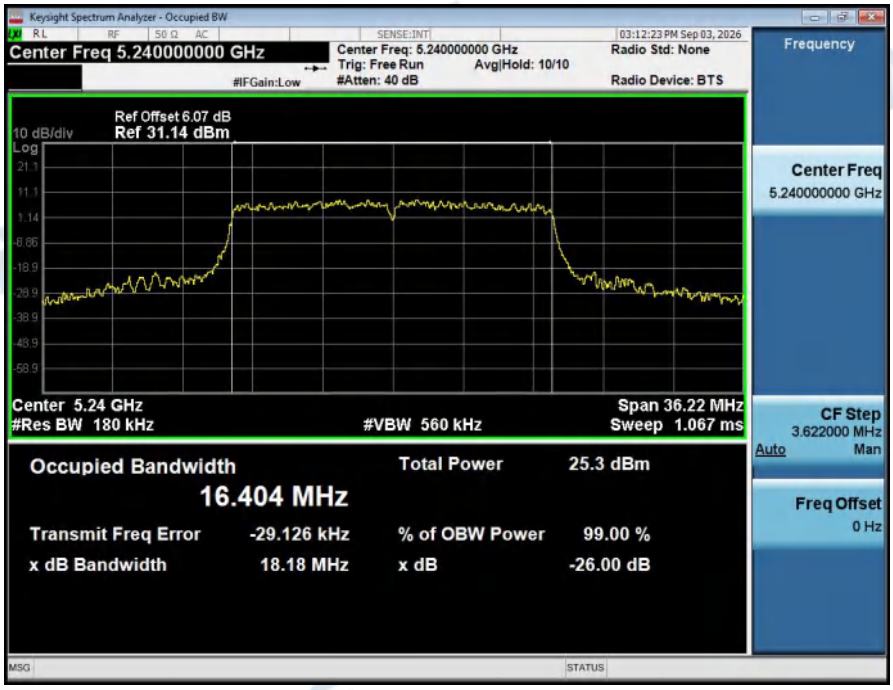
-26BW_NVNT_ANT1_802_11a_5200



99%_OCB_NVNT_ANT1_802_11a_5240

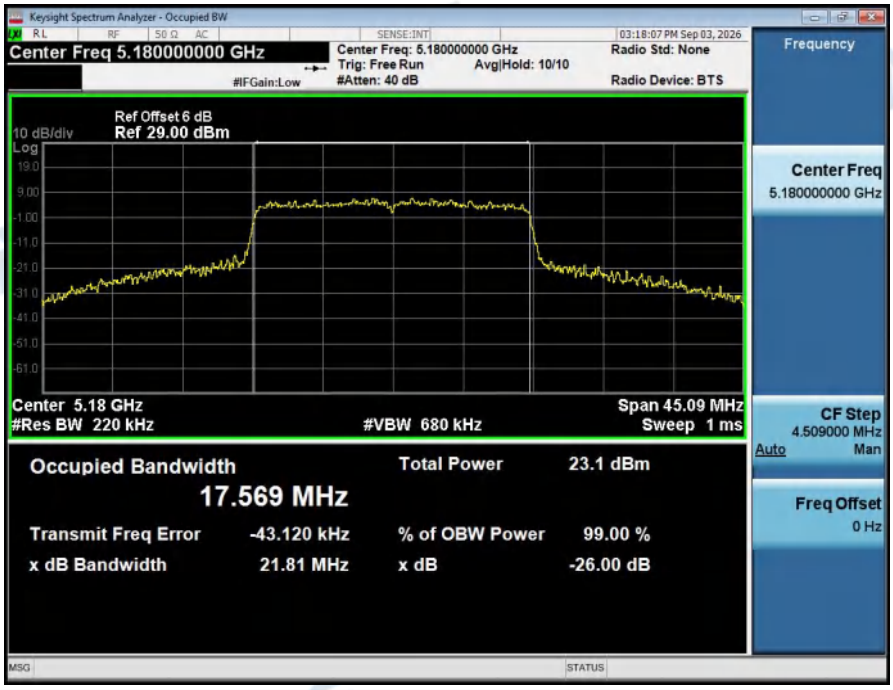


-26BW_NVNT_ANT1_802_11a_5240

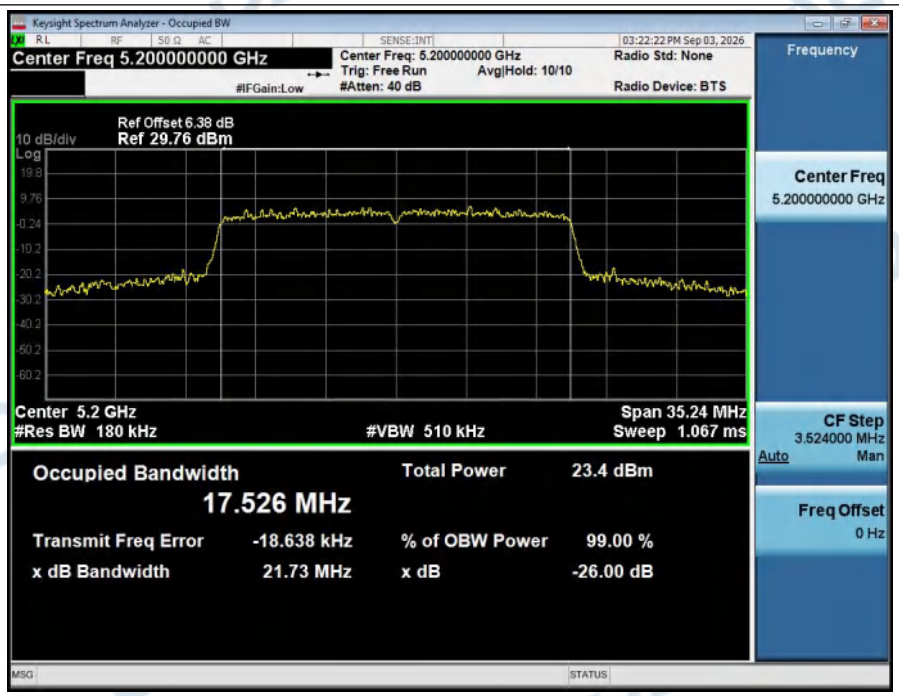


99%_OCB_NVNT_ANT1_802_11n(HT20)_5180

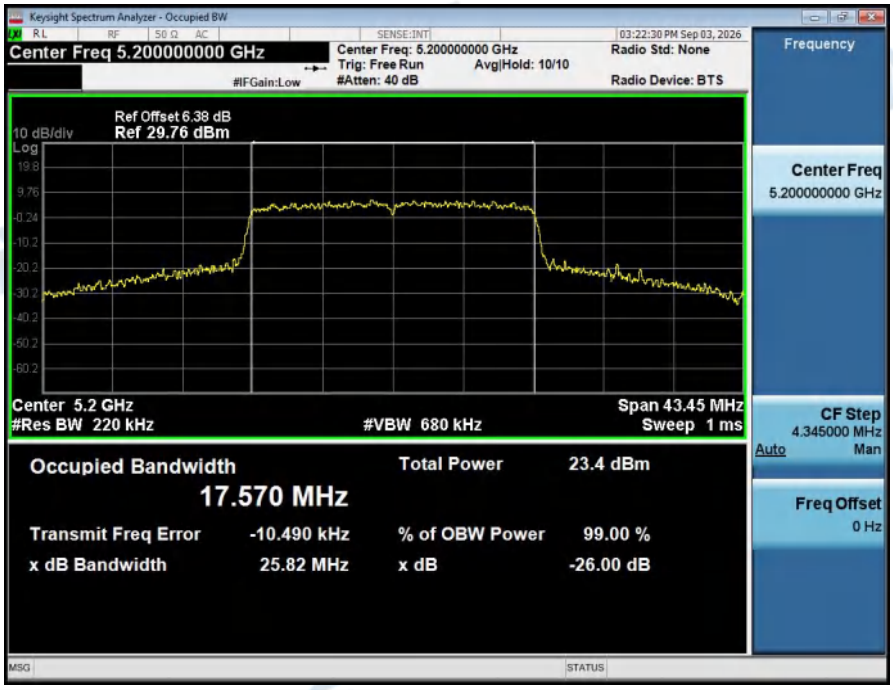
-26BW_NVNT_ANT1_802_11n(HT20)_5180



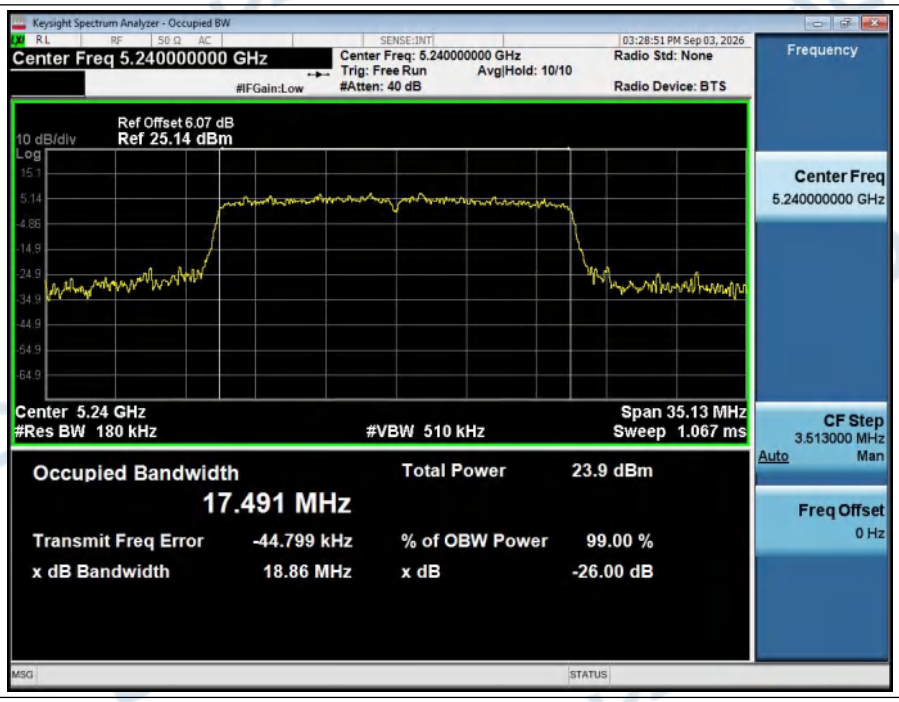
99%_OCB_NVNT_ANT1_802_11n(HT20)_5200



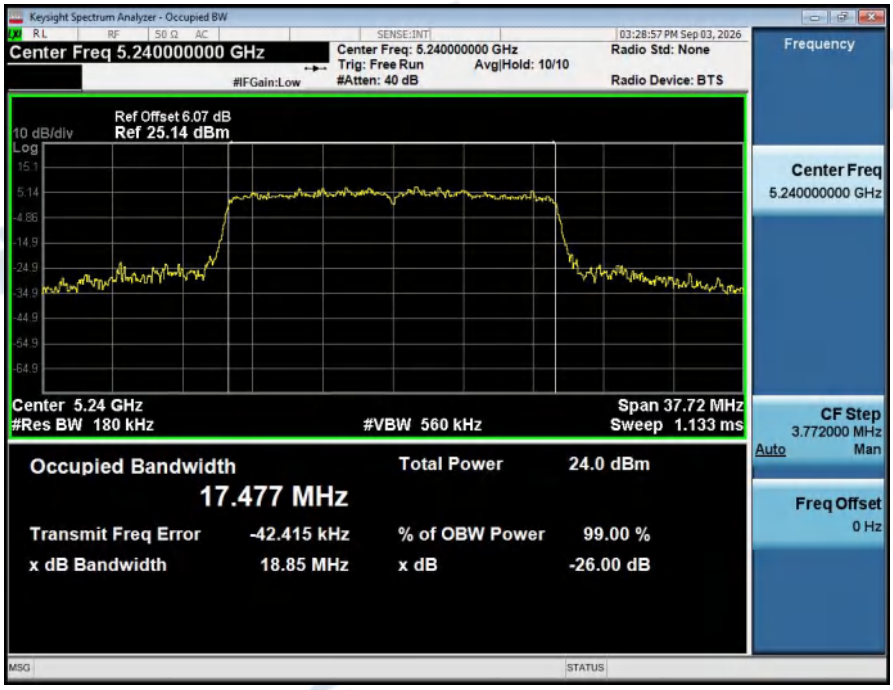
-26BW_NVNT_ANT1_802_11n(HT20)_5200



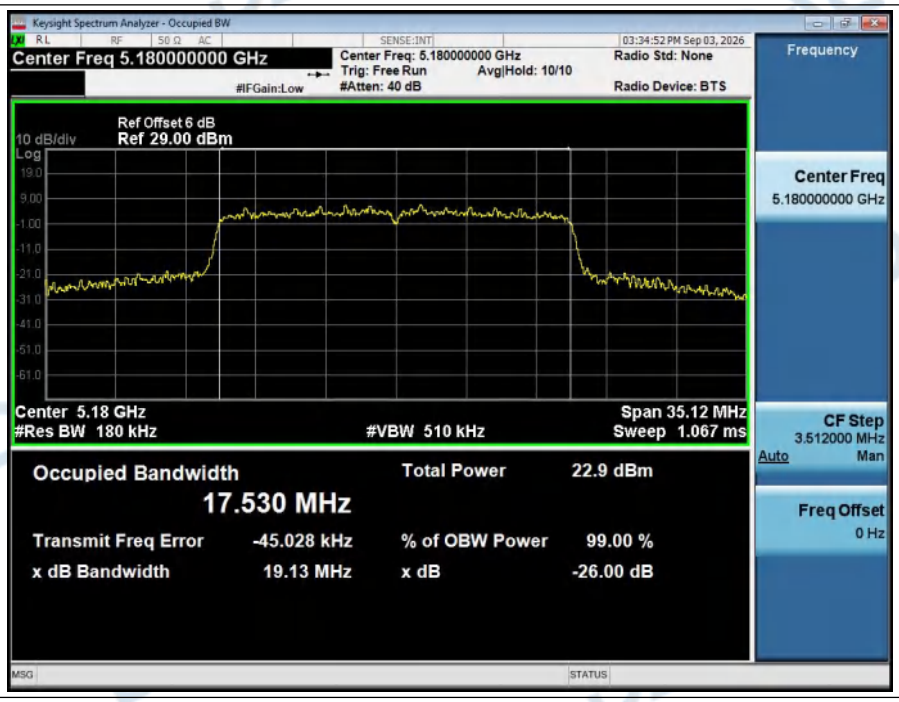
99%_OCB_NVNT_ANT1_802_11n(HT20)_5240



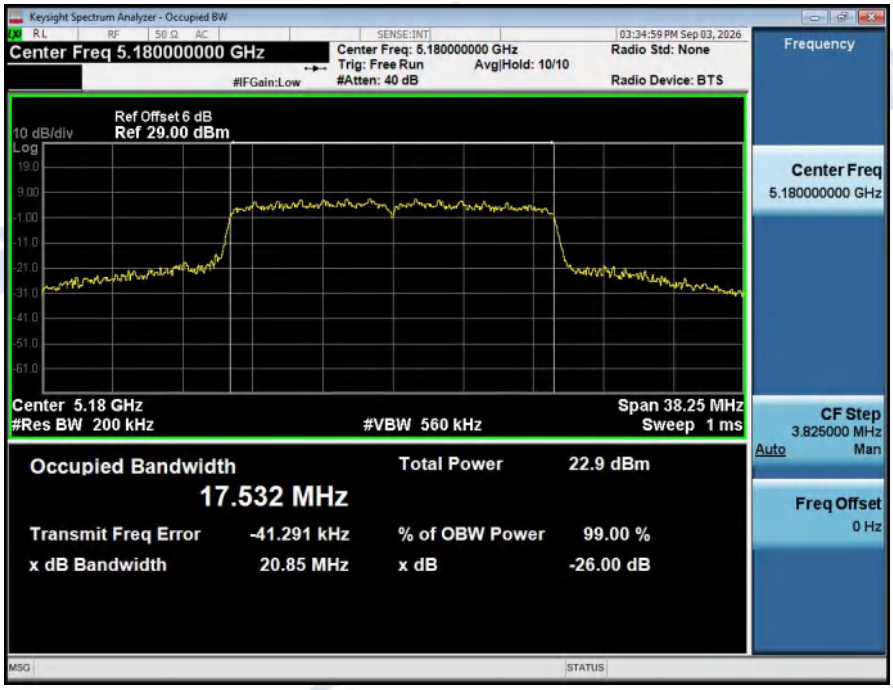
-26BW_NVNT_ANT1_802_11n(HT20)_5240



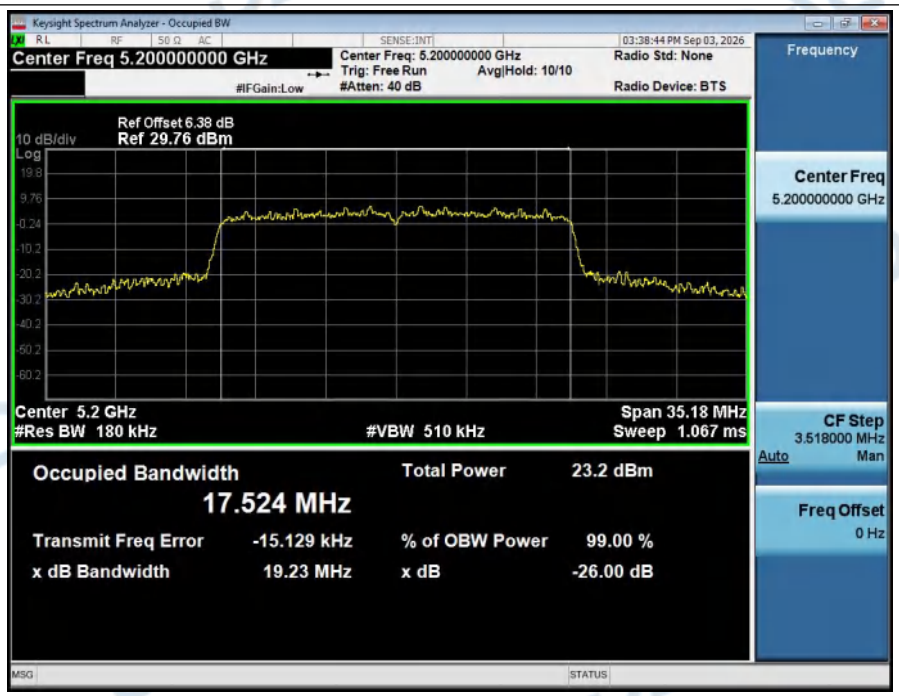
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5180



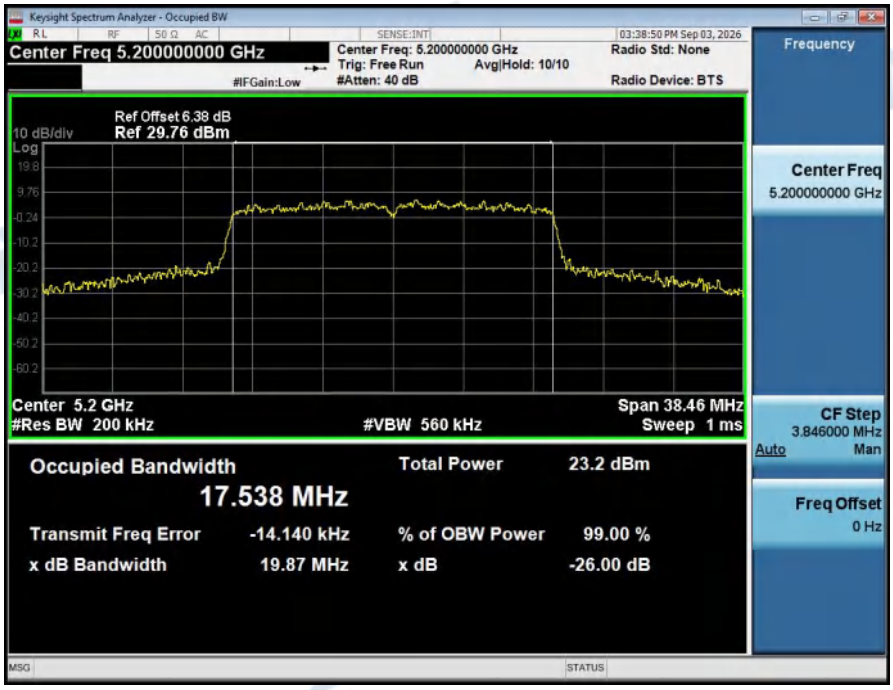
-26BW_NVNT_ANT1_802_11ac(VHT20)_5180



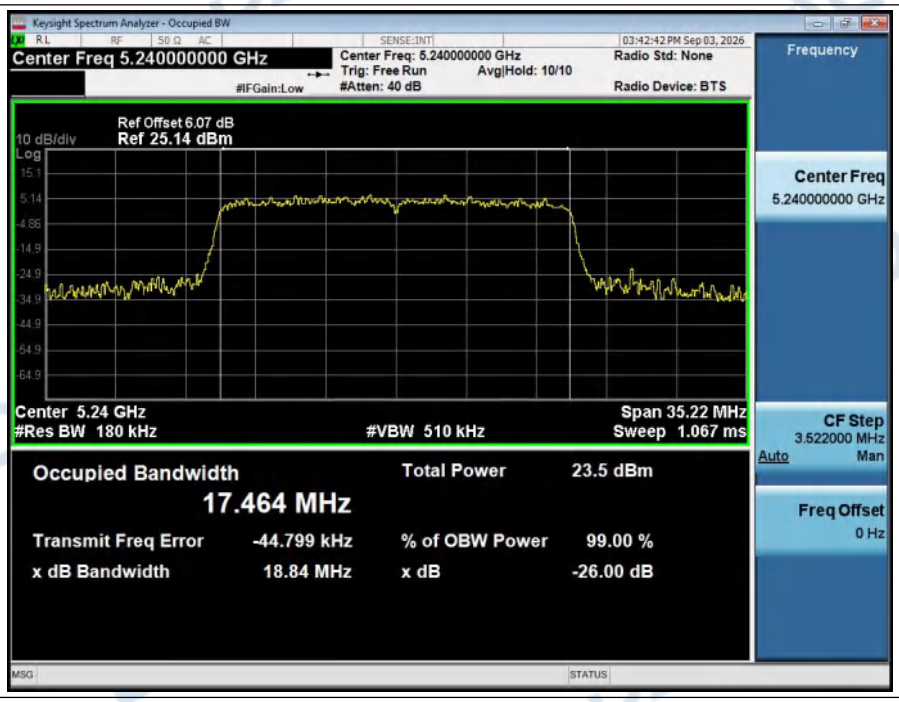
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5200



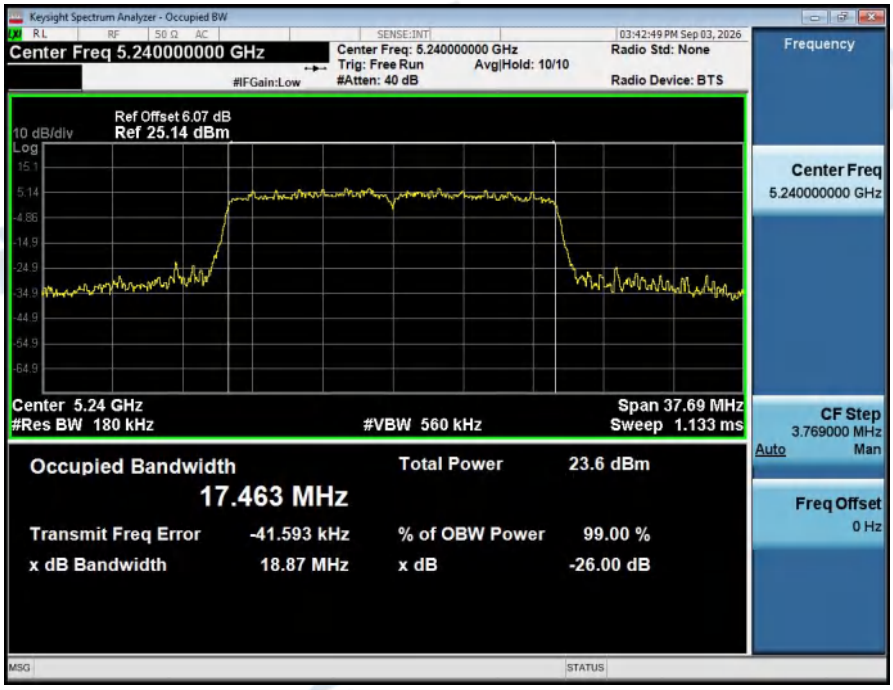
-26BW_NVNT_ANT1_802_11ac(VHT20)_5200



99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5240

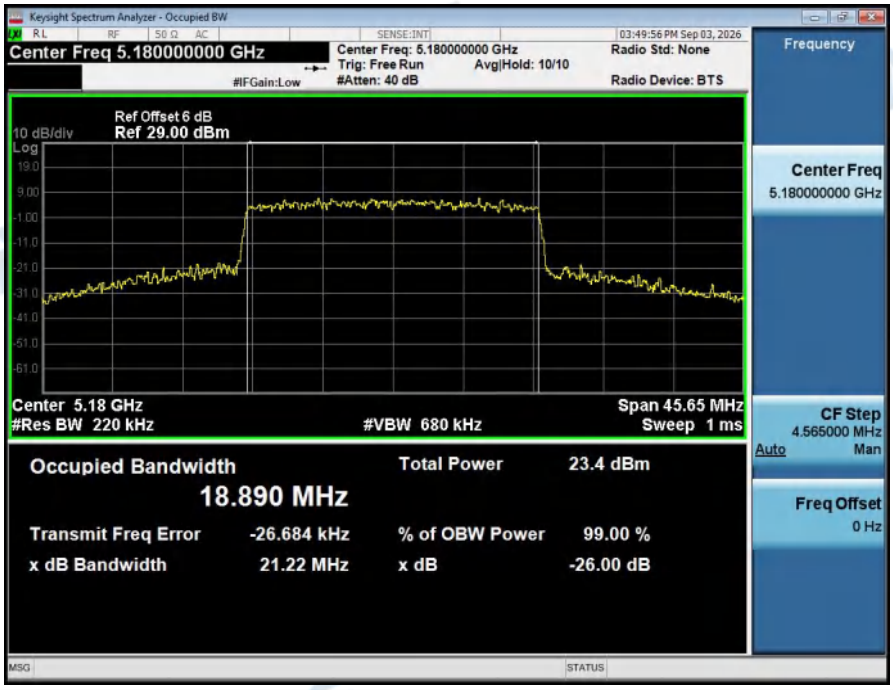


-26BW_NVNT_ANT1_802_11ac(VHT20)_5240



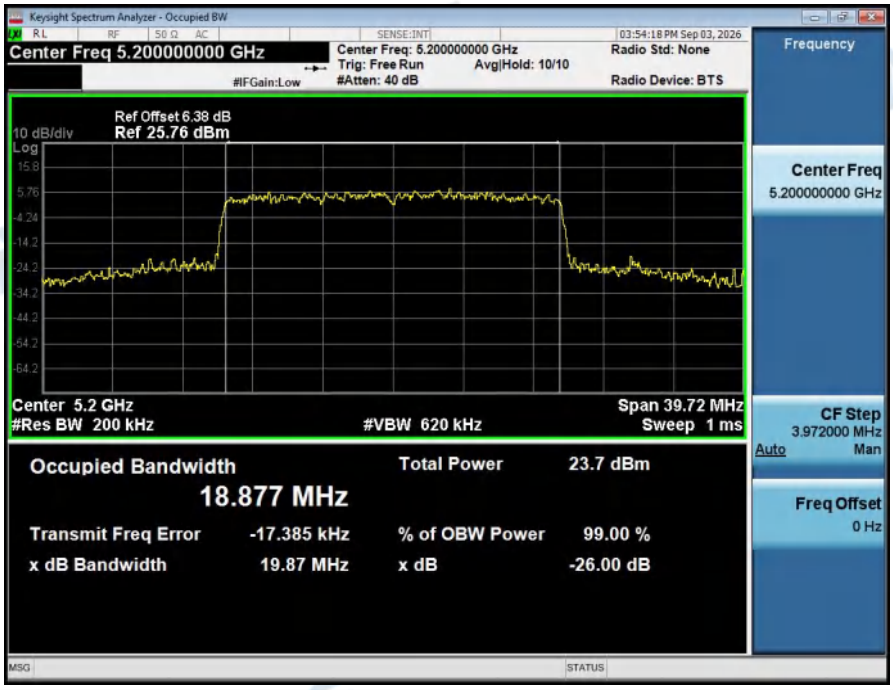
99%_OCB_NVNT_ANT1_802_11ax(HE20)_5180

-26BW_NVNT_ANT1_802_11ax(HE20)_5180

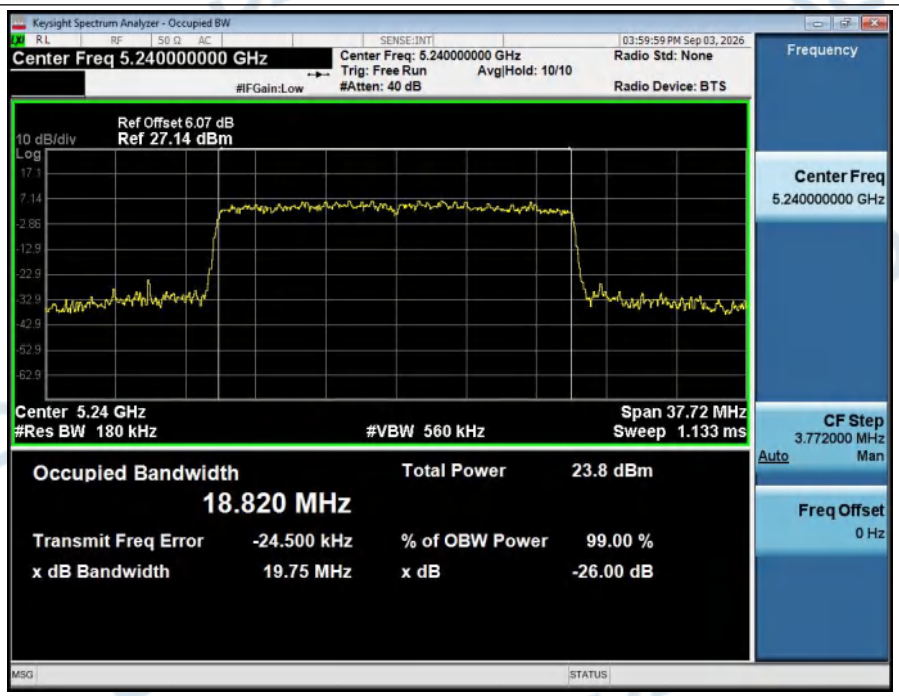


99%_OCB_NVNT_ANT1_802_11ax(HE20)_5200

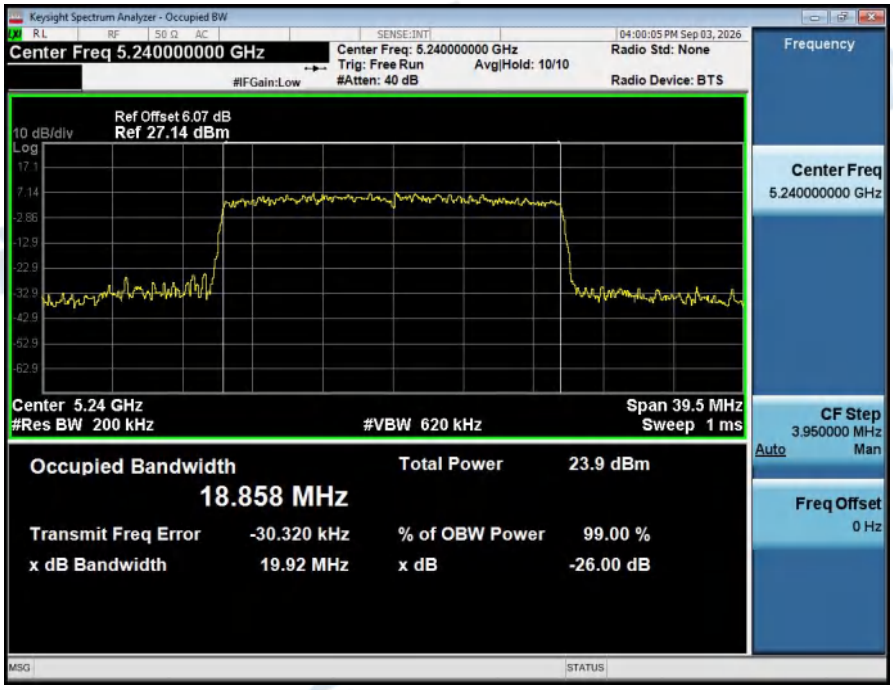
-26BW_NVNT_ANT1_802_11ax(HE20)_5200



99%_OCB_NVNT_ANT1_802_11ax(HE20)_5240

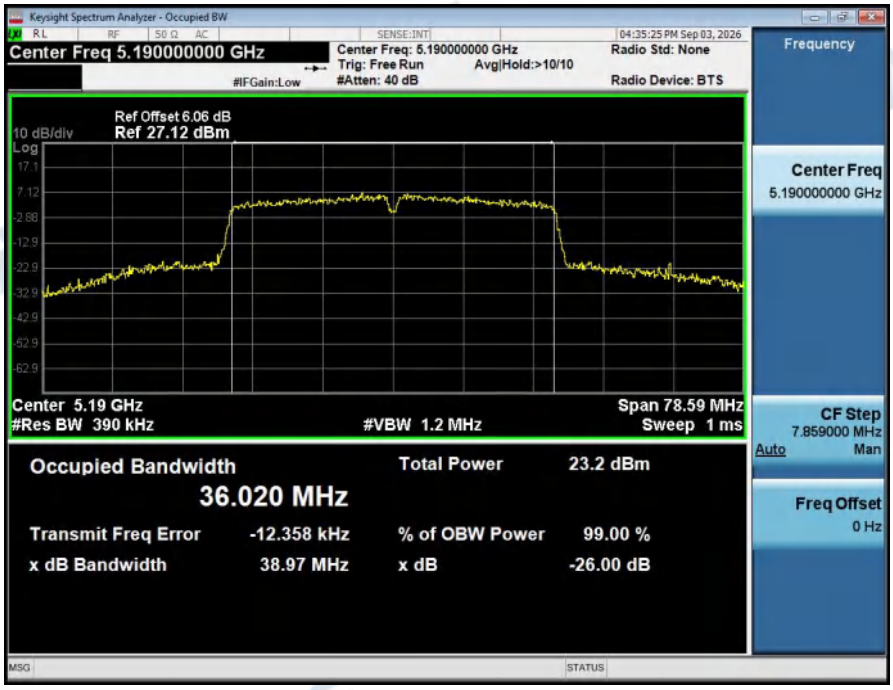


-26BW_NVNT_ANT1_802_11ax(HE20)_5240



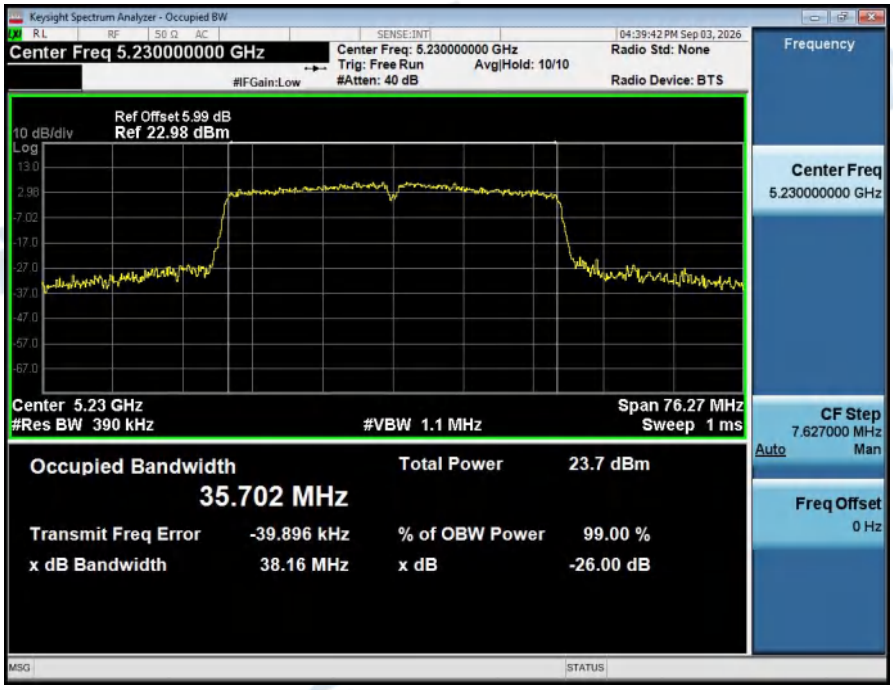
99%_OCB_NVNT_ANT1_802_11n(HT40)_5190

-26BW_NVNT_ANT1_802_11n(HT40)_5190



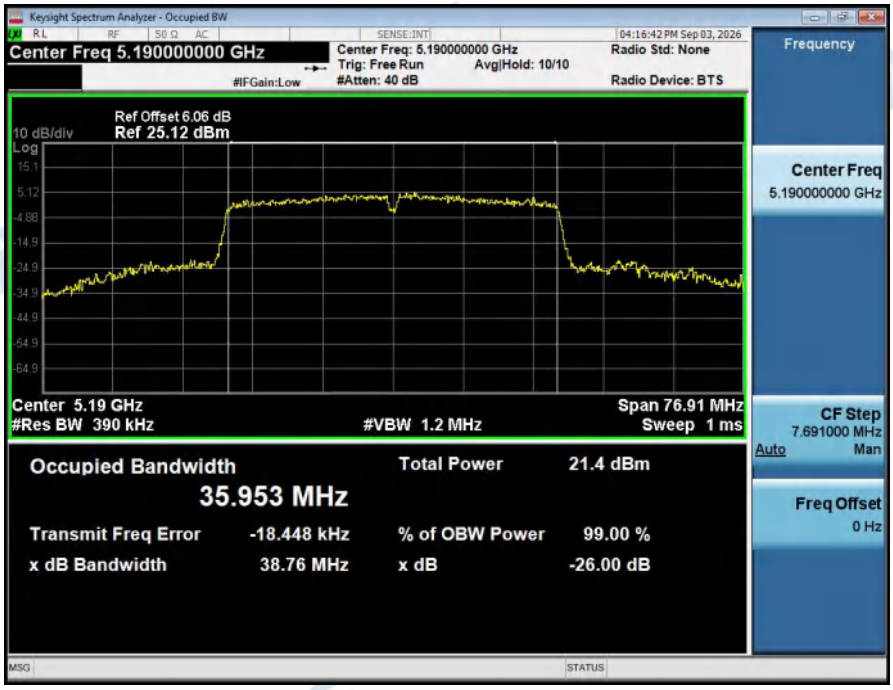
99%_OCB_NVNT_ANT1_802_11n(HT40)_5230

-26BW_NVNT_ANT1_802_11n(HT40)_5230



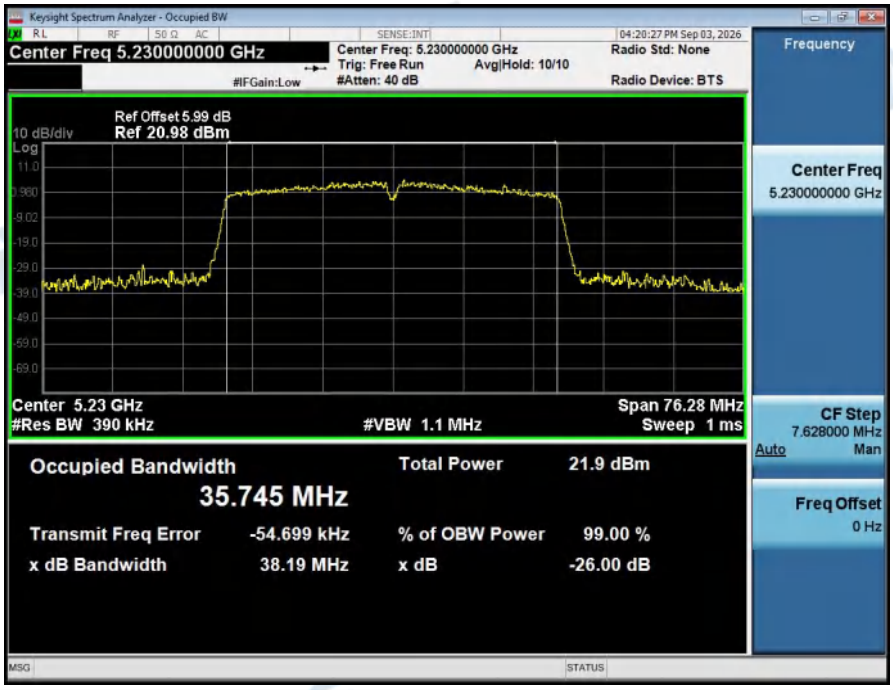
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5190

-26BW_NVNT_ANT1_802_11ac(VHT40)_5190



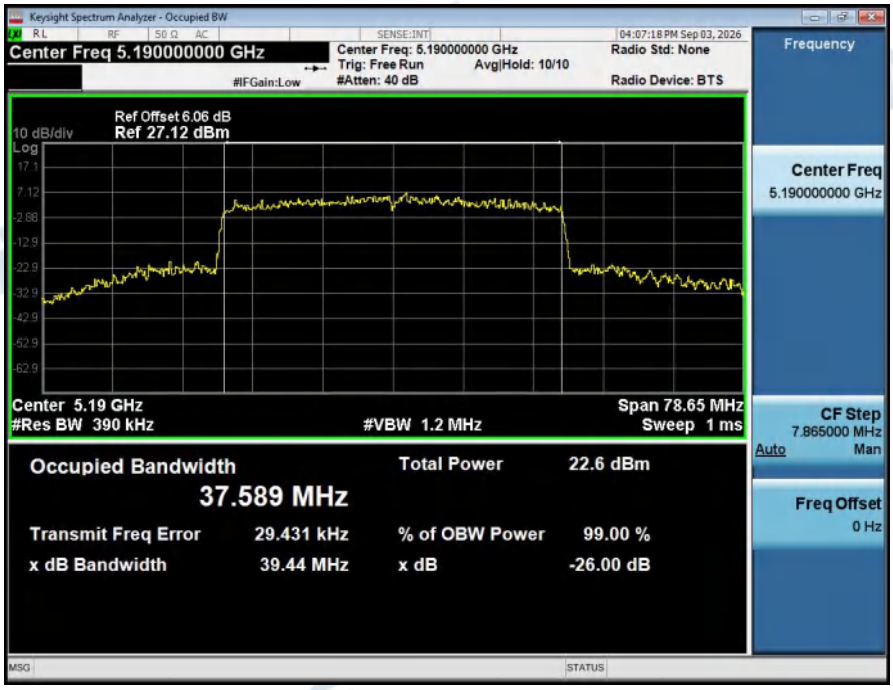
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5230

-26BW_NVNT_ANT1_802_11ac(VHT40)_5230



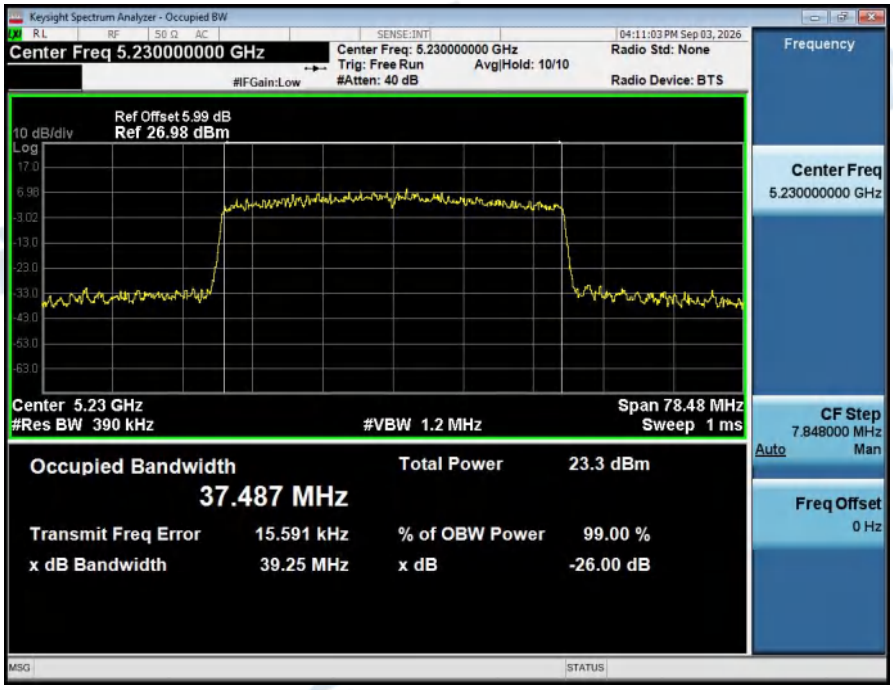
99%_OCB_NVNT_ANT1_802_11ax(HE40)_5190

-26BW_NVNT_ANT1_802_11ax(HE40)_5190



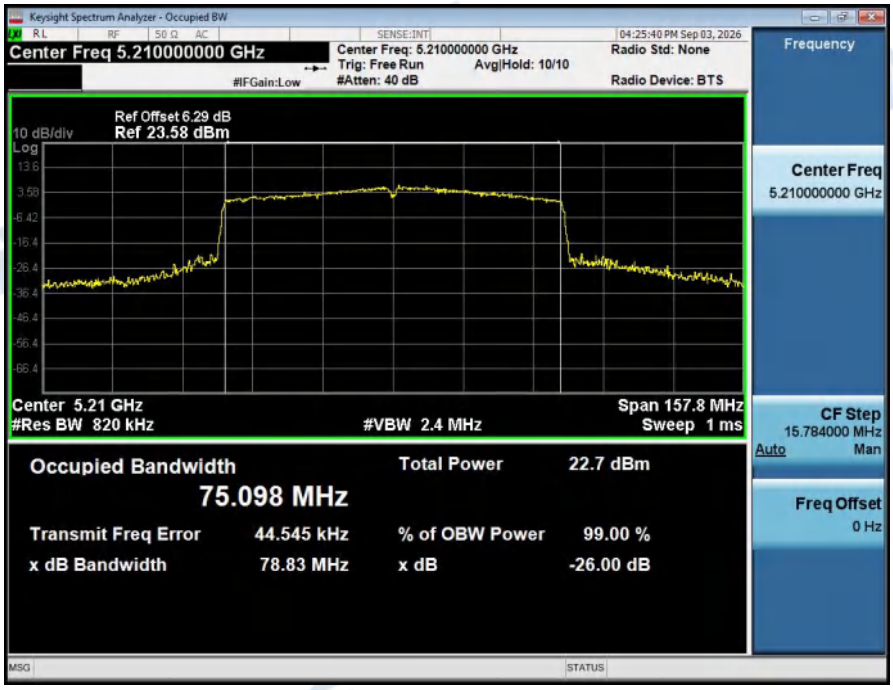
99%_OCB_NVNT_ANT1_802_11ax(HE40)_5230

-26BW_NVNT_ANT1_802_11ax(HE40)_5230



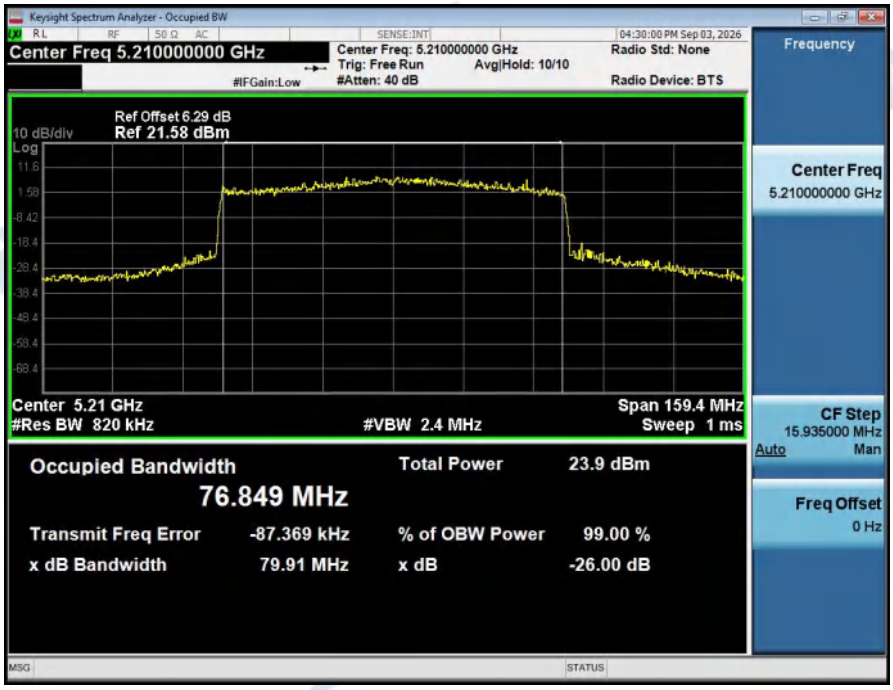
99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5210

-26BW_NVNT_ANT1_802_11ac(VHT80)_5210



99%_OCB_NVNT_ANT1_802_11ax(HE80)_5210

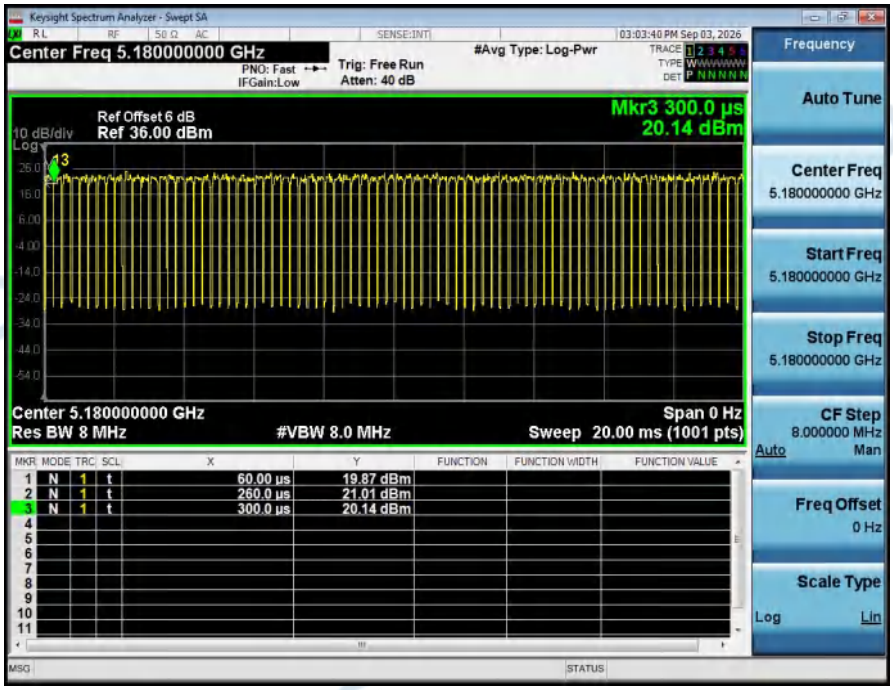
-26BW_NVNT_ANT1_802_11ax(HE80)_5210


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.210000000 GHz
Center Freq: 5.210000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 40 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
04:30:00 PM Sep 03, 2026
Frequency
Ref Offset 6.29 dB
10 dB/div
Ref 21.58 dBm
Log
Center Freq
5.210000000 GHz
Center 5.21 GHz
#Res BW 820 kHz
#VBW 2.4 MHz
Span 159.4 MHz
Sweep 1 ms
CF Step
15.935000 MHz
Auto
Man
Occupied Bandwidth
76.849 MHz
Total Power 23.9 dBm
Transmit Freq Error -87.369 kHz
% of OBW Power 99.00 %
x dB Bandwidth 79.91 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

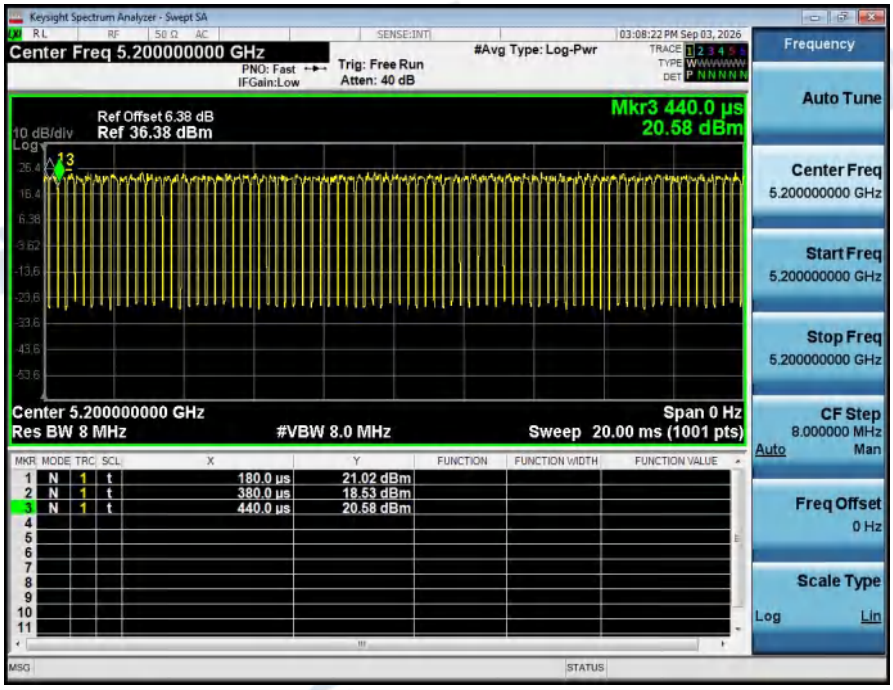
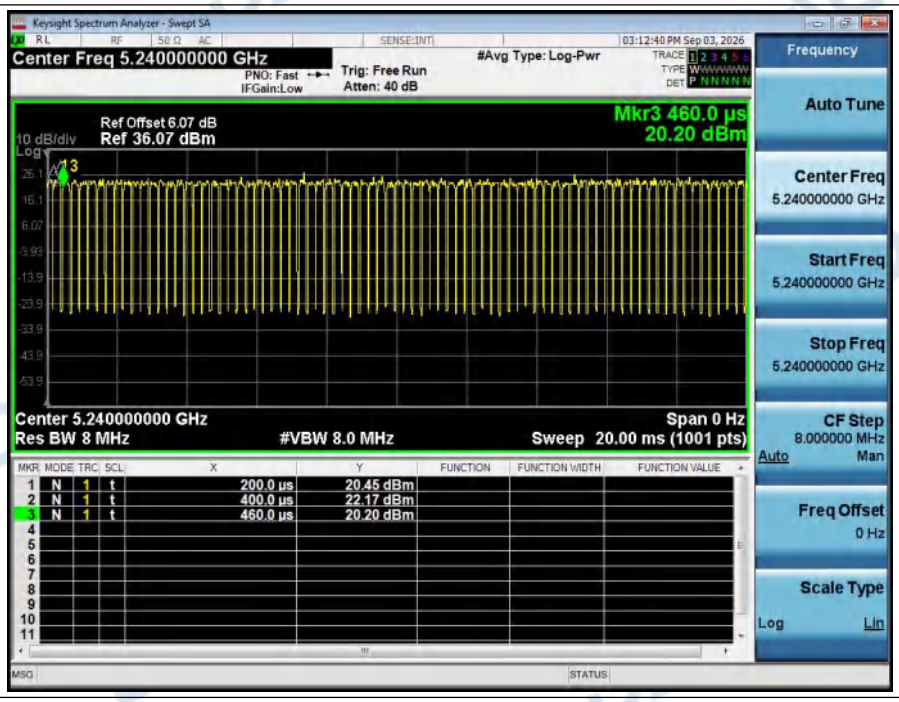
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	83.33	0.79
NVNT	ANT1	802.11a	5200.00	76.92	1.14
NVNT	ANT1	802.11a	5240.00	76.92	1.14
NVNT	ANT1	802.11n(HT20)	5180.00	95.65	0.19
NVNT	ANT1	802.11n(HT20)	5200.00	97.06	0.13
NVNT	ANT1	802.11n(HT20)	5240.00	95.59	0.20
NVNT	ANT1	802.11ac(VHT20)	5180.00	91.89	0.37
NVNT	ANT1	802.11ac(VHT20)	5200.00	94.44	0.25
NVNT	ANT1	802.11ac(VHT20)	5240.00	91.89	0.37
NVNT	ANT1	802.11ax(HE20)	5180.00	76.92	1.14
NVNT	ANT1	802.11ax(HE20)	5200.00	76.92	1.14
NVNT	ANT1	802.11ax(HE20)	5240.00	76.92	1.14
NVNT	ANT1	802.11n(HT40)	5190.00	94.29	0.26
NVNT	ANT1	802.11n(HT40)	5230.00	91.43	0.39
NVNT	ANT1	802.11ac(VHT40)	5190.00	85.00	0.71
NVNT	ANT1	802.11ac(VHT40)	5230.00	85.71	0.67
NVNT	ANT1	802.11ax(HE40)	5190.00	76.92	1.14
NVNT	ANT1	802.11ax(HE40)	5230.00	78.57	1.05
NVNT	ANT1	802.11ac(VHT80)	5210.00	75.00	1.25
NVNT	ANT1	802.11ax(HE80)	5210.00	76.92	1.14

Duty_Cycle_NVNT_ANT1_802_11a_5180



Duty_Cycle_NVNT_ANT1_802_11a_5200



Duty_Cycle_NVNT_ANT1_802_11a_5240