



FCC TEST REPORT

FCC ID: XUJS4006

Report Number.....: **ZKT-260724L1721E-4**

Date of Test Mar. 23, 2026 to Aug. 25, 2026

Date of issue: Aug. 27, 2026

Total number of pages..... 846

Test Result: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue,
Fuhai Street, Bao'an District, Shenzhen, China**Applicant's name: Launch Tech Co., Ltd.**Address: No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street,
Longgang District, Shenzhen, China**Manufacturer's name: Launch Tech Co., Ltd.**Address: No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street,
Longgang District, Shenzhen, China

Test specification:

Standard: FCC CFR Title 47 Part 15 Subpart E Section 15.407
ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Erratato
C63.10a-2024
KDB 789033 D02 v02r01

Test procedure: /

Non-standard test method: N/A

Test Report Form No.....: TRF-EL-111_V0**Test Report Form(s) Originator.....: ZKT Testing****Master TRF: Dated: 2020-01-06**

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name: Remote Diagnosis Interface

Trademark: LAUNCH

Model/Type reference: S4006

Ratings: Input: 8-36VDC (powered by 12V or 24V car battery), ≤1A



Testing procedure and testing location:

Testing Laboratory: Shenzhen ZKT Technology Co., Ltd.

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature): Jim Liu

Reviewer (name + signature).....: Jackson Fang

Approved (name + signature): Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-260724L1721E-4	Rev.01	Initial issue of report	Aug. 27, 2026



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
§15.207(a)	AC Power Line Conducted Emission	PASS	
§15.205(a)/§15.209(a) §15.407(b)(1) §15.407(b)(4) §15.407(b)(8)	Radiated Emissions and Band Edge	PASS	
§15.407 (e) 789033 D02 General U-NII	26dB Emission Bandwidth and 6dB Occupied Bandwidth	PASS	
§15.407(a)(1) §15.407 (a)(3) i	Power Spectral Density	PASS	
§15.407(a)(1) §15.407 (a)(3) i §15.407(a)(12)	Maximum Conducted Output Power	PASS	
§15.407(b)(1) §15.407(b)(4) §15.407(b)(8)	Conducted Band Edge	PASS	
§15.407(g)	Frequency Stability	PASS	
ANSI C63.10:2020	Duty Cycle	PASS	
§15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491
Designation Number: CN1431
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	3m chamber Radiated spurious Emission (9KHz-30MHz)	$U=4.5\text{dB}$
2	3m chamber Radiated spurious emission (30MHz-1GHz)	$U=4.8\text{dB}$
3	3m chamber Radiated spurious emission (1GHz-6GHz)	$U=4.9\text{dB}$
4	3m chamber Radiated spurious emission (6GHz-40GHz)	$U=5.0\text{dB}$
5	Conducted Disturbance	$U=3.2\text{dB}$
6	RF Band Edge	$U=1.68\text{dB}$
7	RF Power Conducted	$U=1.86\text{dB}$
8	RF Conducted Spurious Emission	$U=2.2\text{dB}$
9	RF Occupied Bandwidth	$U=1.8\text{MHz}$
10	RF Power Spectral Density	$U=1.75\text{dB}$
11	Humidity Uncertainty	$U=5.3\%$
12	Temperature Uncertainty	$U=0.59^{\circ}\text{C}$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Remote Diagnosis Interface	
Trade Mark:	LAUNCH	
Model No.:	S4006	
Serial No.:	X-431 SmartLink C HD V2, X-431 SmartLink C HD LITE V2	
Model Different.:	The S4006 is equipped with black and green rubber sleeves. X-431 SmartLink C HD V2, X-431 SmartLink C HD LITE V2 and S4006 share the same main body, with differences only in the model names on the nameplates	
Hardware Version:	V16	
Software Version:	N/A	
Sample(s) Status:	Engineer sample	
Sample Number:	260724L1721-1	
Product Description:	IEEE 802.11 WLAN Mode Supported	☒ 802.11a/n/ac/ax
	Data Rate	802.11a: 6/9/12/24/18/36/48/54Mbit/s 802.11n: MCS0-MCS7 802.11ac: MCS0-MCS9 802.11ax: NSS1 MCS0-MCS9
	Modulation	802.11a/n/ac/ax: Orthogonal Frequency Division Multiplexing (OFDM)
	Frequency Range	☒ 5180-5240MHz for 802.11a/n/ac/ax (20M) ☒ 5180-5240MHz for 802.11n/ac/ax (40M) ☒ 5210MHz for 802.11ac/ax (80M) ☒ 5260-5320MHz for 802.11a/n/ac/ax (20M) ☒ 5270-5310MHz for 802.11n/ac/ax (40M) ☒ 5290MHz for 802.11ac/ax (80M) ☒ 5500-5700MHz for 802.11a/n/ac/ax (20M) ☒ 5510-5670MHz for 802.11n/ac/ax (40M) ☒ 5610MHz for 802.11ac/ax (80M) ☒ 5745-5825MHz for 802.11a/n/ac/ax (20M) ☒ 5745-5825MHz for 802.11n/ac/ax (40M) ☒ 5775MHz for 802.11ac/ax (80M)
	Number of Channels	☒ 4 channels for 802.11a/n/ac/ax (20M) in the 5180-5240MHz band ☒ 2 channels for 802.11n/ac/ax (40M) in the 5190-5230MHz band ☒ 1 channels for 802.11ac/ax (80M) in the 5210MHz band ☒ 4 channels for 802.11a/n/ac/ax (20M) in the 5260-5320MHz band ☒ 2 channels for 802.11n/ac/ax (40M) in the 5270-5310MHz band ☒ 1 channels for 802.11ac/ax (80M) in the 5290MHz band ☒ 4 channels for 802.11a/n/ac/ax (20M) in the 5500-5700MHz band ☒ 2 channels for 802.11n/ac/ax (40M) in the 5510-5670MHz band ☒ 1 channels for 802.11ac/ax (80M) in the 5610MHz band ☒ 5 channels for 802.11a/n/ac/ax (20M) in the



		5745-5825MHz band ☒2 channels for 802.11n/ac/ax (40M) in the 5755-5795MHz band ☒1 channels for 802.11ac/ax (80M) in the 5775MHz band			
Channel List:	Please refer to the Note 2.				
Antenna Type:	FPC Antenna				
Antenna Gain:	Band	5.2G	5.3G	5.6G	5.8G
	Gain (dBi)	ANT1:3.19	ANT1:3.19	ANT1:3.19	ANT1:3.19
		ANT2: 2.76	ANT2: 2.76	ANT2: 2.76	ANT2: 2.76
		MIMO:5.99	MIMO:5.99	MIMO:5.99	MIMO:5.99
Power Supply:	Input: 8-36VDC (powered by 12V or 24V car battery), ≤1A				
Battery Capacity:	N/A				



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. Channel List

802.11a/n/ac/ax (20M) Frequency Channel for 5.2G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240

802.11n/ac/ax (40M) Frequency Channel For 5.2G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	-	-	-	-

802.11ac/ax (80M) Frequency Channel For 5.2G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

802.11a/n/ac/ax (20M) Frequency Channel for 5.3G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300	64	5320	-	-

802.11n/ac/ax (40M) Frequency Channel For 5.3G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310	-	-	-	-

802.11ac/ax (80M) Frequency Channel For 5.3G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290	-	-	-	-	-	-

802.11a/n/ac/ax (20M) Frequency Channel for 5.6G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700	-	-

802.11n/ac/ax (40M) Frequency Channel For 5.6G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	110	5550	134	5670	-	-

802.11ac/ax (80M) Frequency Channel For 5.6G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610	-	-	-	-



802.11a/n/ac/ax (20M) Frequency Channel for 5.8G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac/ax (40M) Frequency Channel for 5.8G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-	-	-

802.11ac/ax (80M) Frequency Channel For 5.8G							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	-	-	-	-	-	-



3.2 DESCRIPTION OF TEST MODES

Pretest Mode	Description
Mode 1	802.11a/n/ac/ax (20M) CH 36 / CH 40 / CH 48 For 5.2G 802.11a/n/ac/ax (20M) CH 52 / CH 60 / CH 64 For 5.3G 802.11a/n/ac/ax (20M) CH 100 / CH 116 / CH 140 For 5.6G 802.11a/n/ac/ax (20M) CH149 / CH157 / CH 165 For 5.8G
Mode 2	802.11n/ac/ax(40M) CH 38 / CH 46 For 5.2G 802.11n/ac/ax(40M) CH 54 / CH 62 For 5.3G 802.11n/ac/ax(40M) CH 102 / CH 110 / CH 134 For 5.6G 802.11n/ac/ax (40M) CH 151 / CH 159 For 5.8G
Mode 3	802.11ac/ax (80M) CH42 For 5.2G 802.11ac/ax (80M) CH58 For 5.3G 802.11ac/ax (80M) CH106 / CH 122 For 5.6G 802.11ac/ax (80M) CH 155 For 5.8G

Final Test Mode	For Conducted
	Description
Mode 1	802.11a/n/ac/ax (20M) CH 36 / CH 40 / CH 48 For 5.2G 802.11a/n/ac/ax (20M) CH 52 / CH 60 / CH 64 For 5.3G 802.11a/n/ac/ax (20M) CH 100 / CH 116 / CH 140 For 5.6G 802.11a/n/ac/ax (20M) CH149 / CH157 / CH 165 For 5.8G
Mode 2	802.11n/ac/ax(40M) CH 38 / CH 46 For 5.2G 802.11n/ac/ax(40M) CH 54 / CH 62 For 5.3G 802.11n/ac/ax(40M) CH 102 / CH 110 / CH 134 For 5.6G 802.11n/ac/ax (40M) CH 151 / CH 159 For 5.8G
Mode 3	802.11ac/ax (80M) CH42 For 5.2G 802.11ac/ax (80M) CH58 For 5.3G 802.11ac/ax (80M) CH106 / CH 122 For 5.6G 802.11ac/ax (80M) CH 155 For 5.8G

Final Test Mode	For Radiated
	Description
Mode 1	802.11a/n/ac/ax (20M) CH 36 / CH 40 / CH 48 For 5.2G 802.11a/n/ac/ax (20M) CH 52 / CH 60 / CH 64 For 5.3G 802.11a/n/ac/ax (20M) CH 100 / CH 116 / CH 140 For 5.6G 802.11a/n/ac/ax (20M) CH149 / CH157 / CH 165 For 5.8G
Mode 2	802.11n/ac/ax(40M) CH 38 / CH 46 For 5.2G 802.11n/ac/ax(40M) CH 54 / CH 62 For 5.3G 802.11n/ac/ax(40M) CH 102 / CH 110 / CH 134 For 5.6G 802.11n/ac/ax (40M) CH 151 / CH 159 For 5.8G
Mode 3	802.11ac/ax (80M) CH42 For 5.2G 802.11ac/ax (80M) CH58 For 5.3G 802.11ac/ax (80M) CH106 / CH 122 For 5.6G 802.11ac/ax (80M) CH 155 For 5.8G

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:



Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11a	802.11n20/n40/ax40	802.11ac20/ac40/ac80/ax80
Data rate	6Mbps	MCS0(HT0)	MCS0(VHT0)

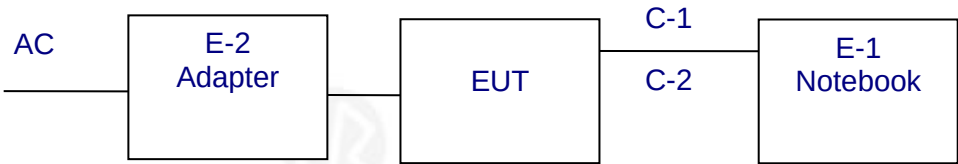


RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	ANT1:3.19 ANT2: 2.76 MIMO:5.99	18	18	CMD
		802.11n(HT20)		17	17	
		802.11n(HT40)		16	16	
		802.11ac(VHT20)		16	16	
		802.11ac(VHT40)		16	16	
		802.11ac(VHT80)		16	16	
		802.11ax(HE20)		16	16	
		802.11ax(HE40)		16	16	
		802.11ax(HE80)		16	16	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-2A (5250MHz-5350MHz)	802.11a	ANT1:3.19 ANT2: 2.76 MIMO:5.99	18	18	CMD
		802.11n(HT20)		16	16	
		802.11n(HT40)		16	16	
		802.11ac(VHT20)		16	16	
		802.11ac(VHT40)		16	16	
		802.11ac(VHT80)		16	16	
		802.11ax(HE20)		16	16	
		802.11ax(HE40)		16	16	
		802.11ax(HE80)		16	16	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-2C (5470MHz-5725MHz)	802.11a	ANT1:3.19 ANT2: 2.76 MIMO:5.99	16	16	CMD
		802.11n(HT20)		14	14	
		802.11n(HT40)		13	13	
		802.11ac(VHT20)		13	13	
		802.11ac(VHT40)		13	13	
		802.11ac(VHT80)		13	13	
		802.11ax(HE20)		15	15	
		802.11ax(HE40)		14	14	
		802.11ax(HE80)		14	14	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	ANT_2 Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5850MHz)	802.11a	ANT1:3.19 ANT2: 2.76 MIMO:5.99	16	16	CMD
		802.11n(HT20)		17	17	
		802.11n(HT40)		16	16	
		802.11ac(VHT20)		16	16	
		802.11ac(VHT40)		16	16	
		802.11ac(VHT80)		16	16	
		802.11ax(HE20)		16	16	
		802.11ax(HE40)		16	16	
		802.11ax(HE80)		16	16	

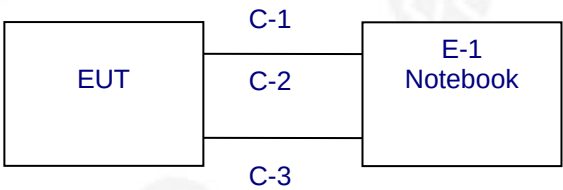


3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

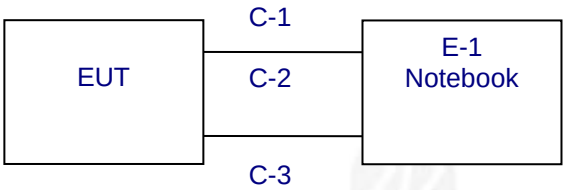
Conducted Emission



Radiated Emission



Conducted Spurious





3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	HP	ST-2	N/A
E-2	AC Adapter	UGREEN	X569	N/A
C-1	Serial port board	WAVGAT	CH340G	N/A
C-2	USB Cable	UGREEN	A88E6	N/A
C-3	USB Cable	ZTC	NB-A515A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-2	Shielded	NO	150cm	N/A
C-3	Shielded	NO	150cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May 25, 2025 May 25, 2026	May 24, 2026 May 24, 2027
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May 25, 2025 May 25, 2026	May 24, 2026 May 24, 2027
12	Test Cable	N/A	R-02	N/A	N/A	May 25, 2025 May 25, 2026	May 24, 2026 May 24, 2027
13	Test Cable	N/A	R-03	N/A	N/A	May 25, 2025 May 25, 2026	May 24, 2026 May 24, 2027
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



RF Conducted Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	N/A	RF-01	N/A	N/A	May 25, 2025	May 24, 2026
						May 25, 2026	May 24, 2027
4	Test Cable	N/A	RF-02	N/A	N/A	May 25, 2025	May 24, 2026
						May 25, 2026	May 24, 2027
5	Test Cable	N/A	RF-03	N/A	N/A	May 25, 2025	May 24, 2026
						May 25, 2026	May 24, 2027
6	ESG Signal Generator	Agilent	E4421B	GB40051203	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	MY47420215	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
11	MWRF Power Meter Test system	MW	MW100-RF CB	10371	N/A	Sep. 19, 2025	Sep. 18, 2026
12	MWRF Power Sensor	MW	MW100-PS B	10371	N/A	Sep. 19, 2025	Sep. 18, 2026
13	Power Meter	KEYSIGHT	N1912AP	926431	A.05.00	Sep. 19, 2025	Sep. 18, 2026
14	D.C. Power Supply	LongWei	TPR-6405D	GQ7516	N/A	Sep. 19, 2025	Sep. 18, 2026
15	Attenuators	XINQY	XQY-SMAJ KS-12-2W	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
16	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Erratato C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

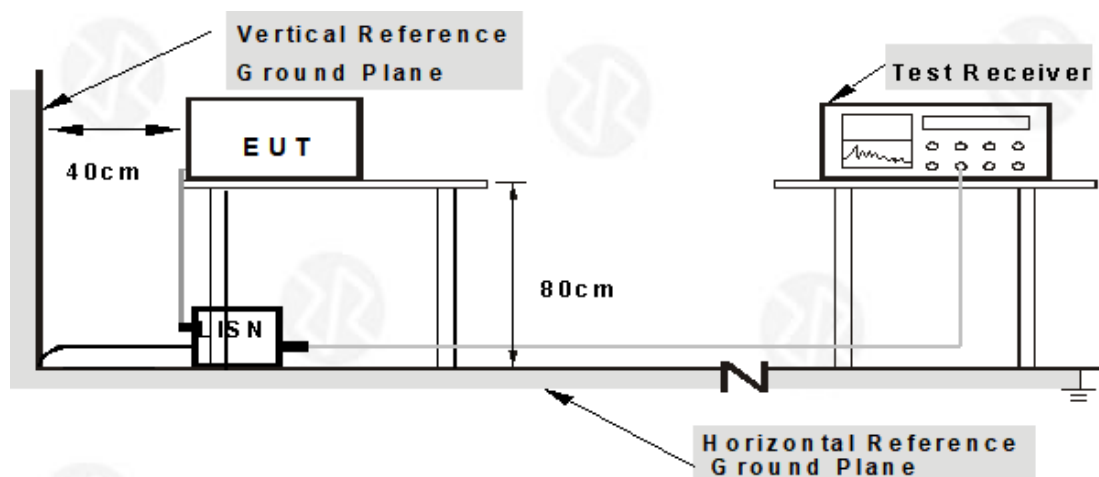
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
 - I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
 - LISN at least 80 cm from nearest part of EUT chassis.
 - For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

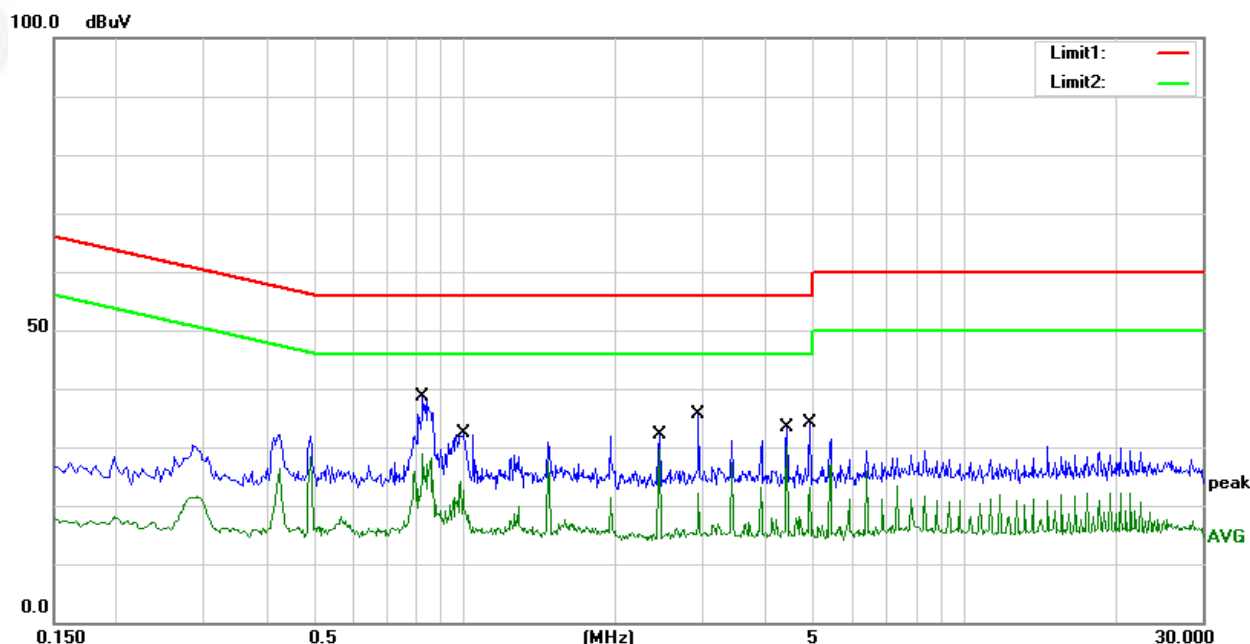
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULTS

Temperature:	25.1℃	Relative Humidity:	59%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	TX 802.11n20 - 5240MHz



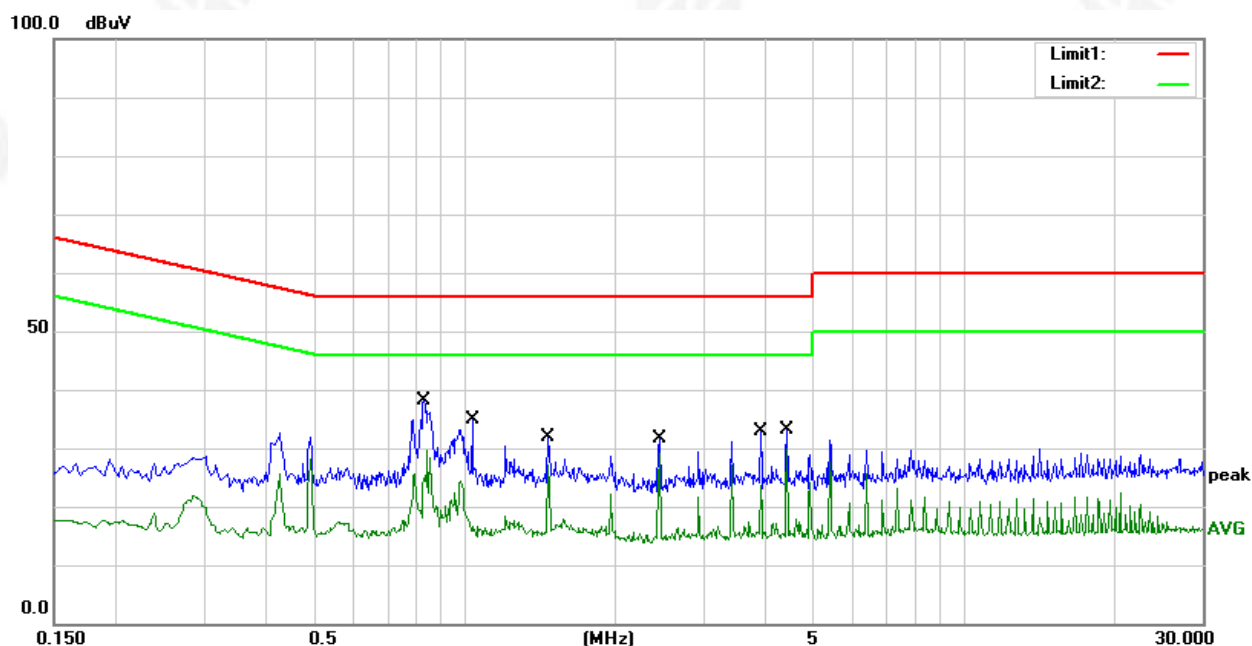
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.8260	19.36	19.36	38.72	56.00	-17.28	QP
2	0.8260	9.62	19.36	28.98	46.00	-17.02	AVG
3	0.9980	13.06	19.35	32.41	56.00	-23.59	QP
4	0.9980	4.72	19.35	24.07	46.00	-21.93	AVG
5	2.4500	12.82	19.37	32.19	56.00	-23.81	QP
6	2.4500	10.26	19.37	29.63	46.00	-16.37	AVG
7	2.9420	16.24	19.40	35.64	56.00	-20.36	QP
8	2.9420	7.97	19.40	27.37	46.00	-18.63	AVG
9	4.4100	14.05	19.42	33.47	56.00	-22.53	QP
10	4.4100	10.78	19.42	30.20	46.00	-15.80	AVG
11	4.9020	14.77	19.42	34.19	56.00	-21.81	QP
12	4.9020	3.81	19.42	23.23	46.00	-22.77	AVG

Notes:

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. Final Level = Reading level + Correct Factor.
4. Correct Factor= Lisen factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. The test data shows only the worst case TX 802.11n20 MIMO - 5240MHz.



Temperature:	25.1℃	Relative Humidity:	59%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	TX 802.11n20 - 5240MHz



	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.8300	18.66	19.40	38.06	56.00	-17.94	QP
2	0.8300	10.11	19.40	29.51	46.00	-16.49	AVG
3	1.0340	15.42	19.39	34.81	56.00	-21.19	QP
4	1.0340	5.07	19.39	24.46	46.00	-21.54	AVG
5	1.4700	12.37	19.39	31.76	56.00	-24.24	QP
6	1.4700	7.66	19.39	27.05	46.00	-18.95	AVG
7	2.4500	12.17	19.42	31.59	56.00	-24.41	QP
8	2.4500	9.79	19.42	29.21	46.00	-16.79	AVG
9	3.9220	13.34	19.46	32.80	56.00	-23.20	QP
10	3.9220	4.24	19.46	23.70	46.00	-22.30	AVG
11	4.4100	13.72	19.47	33.19	56.00	-22.81	QP
12	4.4100	10.40	19.47	29.87	46.00	-16.13	AVG

Notes:

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. Final Level = Reading level + Correct Factor.
4. Correct Factor= Lisen factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. The test data shows only the worst case TX 802.11n20 MIMO - 5240MHz.



4.2 RADIATED EMISSION AND BAND EDGE MEASUREMENT

4.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b)(1) and 15.407(b)(4)(i) and 15.205(a) and 15.209(a).

4.2.2 CONFORMANCE LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on limit in the table below has to be followed

Restricted Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log ($\mu\text{V/m}$)	300
0.490~1.705	2400/F(KHz)	20 log ($\mu\text{V/m}$)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency (MHz)	Class B ($\text{dB}\mu\text{V/m}$) (at 3M)	
	Peak	Average
Above 1000	74	54

- Remark: 1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$;
2. Measurement was performed at an antenna to the closed point of EUT distance of meters;
3. Distance extrapolation factor $= 40 \log (\text{Specific distance} / \text{test distance})$ (dB);
4. Limit line = Specific limits($\text{dB}\mu\text{V}$) + distance extrapolation factor;
5. Emission level in $\text{dB}\mu\text{V/m} = (\text{dBm}) + 95.2$.

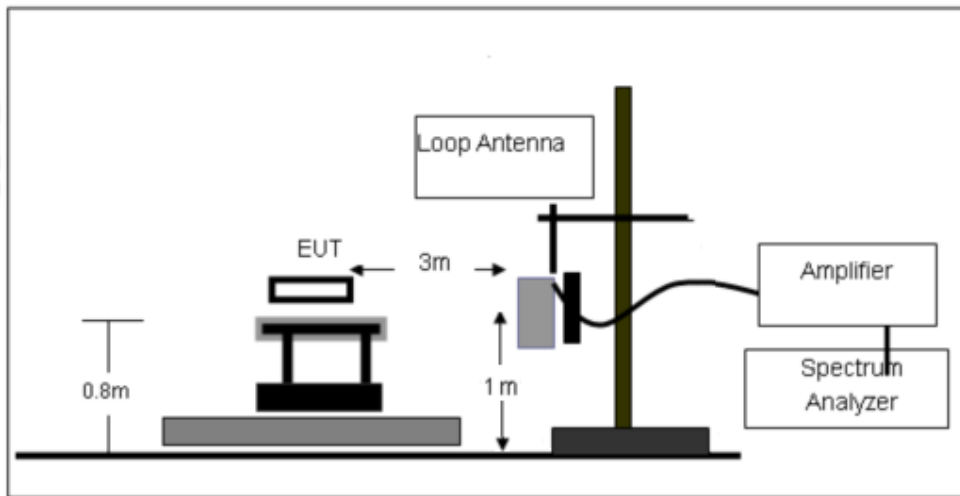
4.2.3 MEASURING INSTRUMENTS

The Measuring equipment is listed in the section 3.5 of this test report.

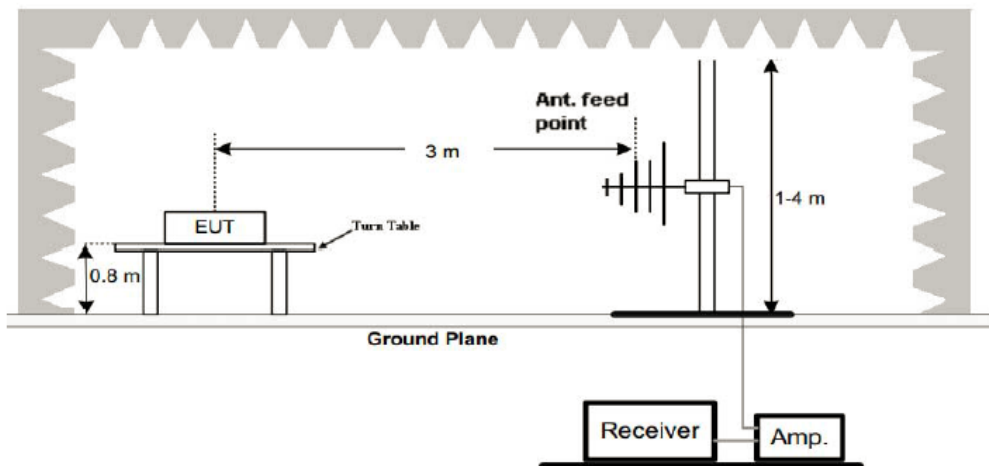


4.2.4 TEST CONFIGURATION

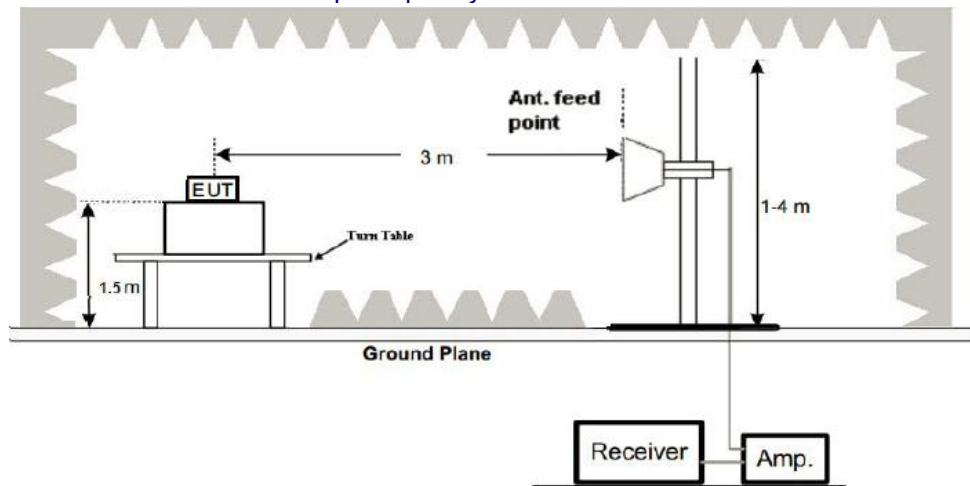
1. For radiated emissions below 30MHz



2. For radiated emissions from 30MHz to 1000MHz



3. Radiated Emission Test-Up Frequency Above 1GHz





4.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Erratato C63.10a-2024. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Erratato C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item – EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



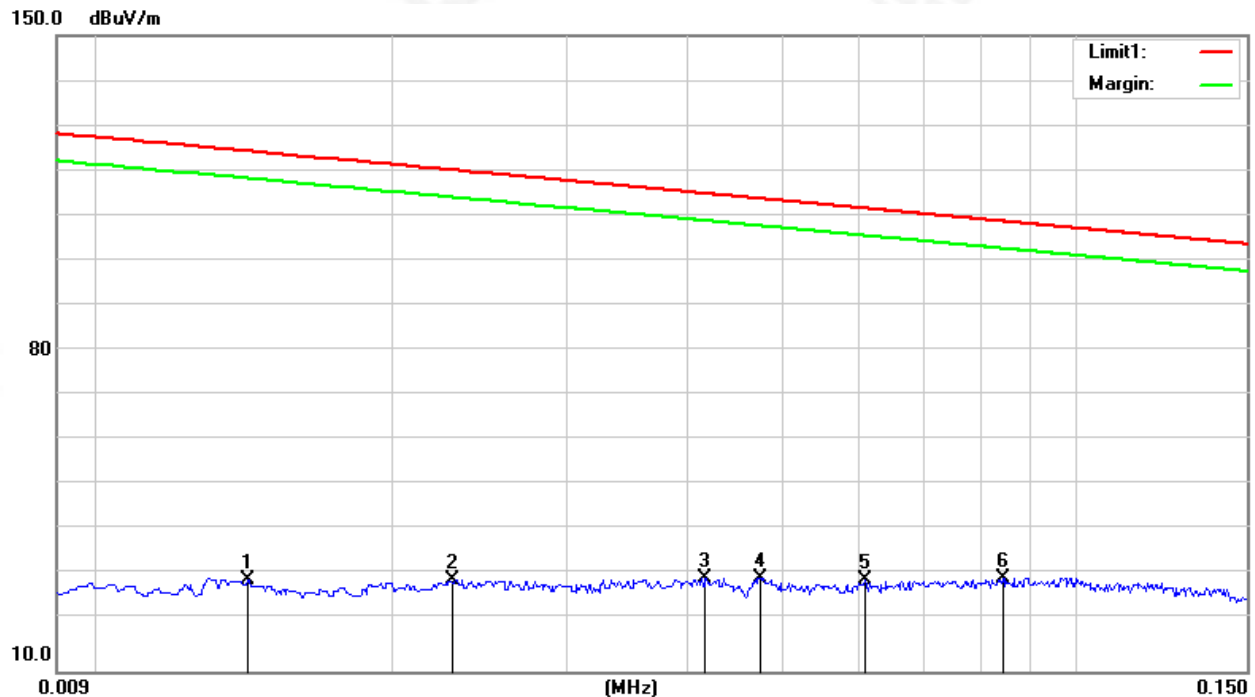
4.2.6 RADIATED EMISSION TEST RESULT

Between 9KHz – 30MHz

U-NNI-1

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coxial
Test Mode:	TX 802.11n20 - 5240MHz		

9K-150K



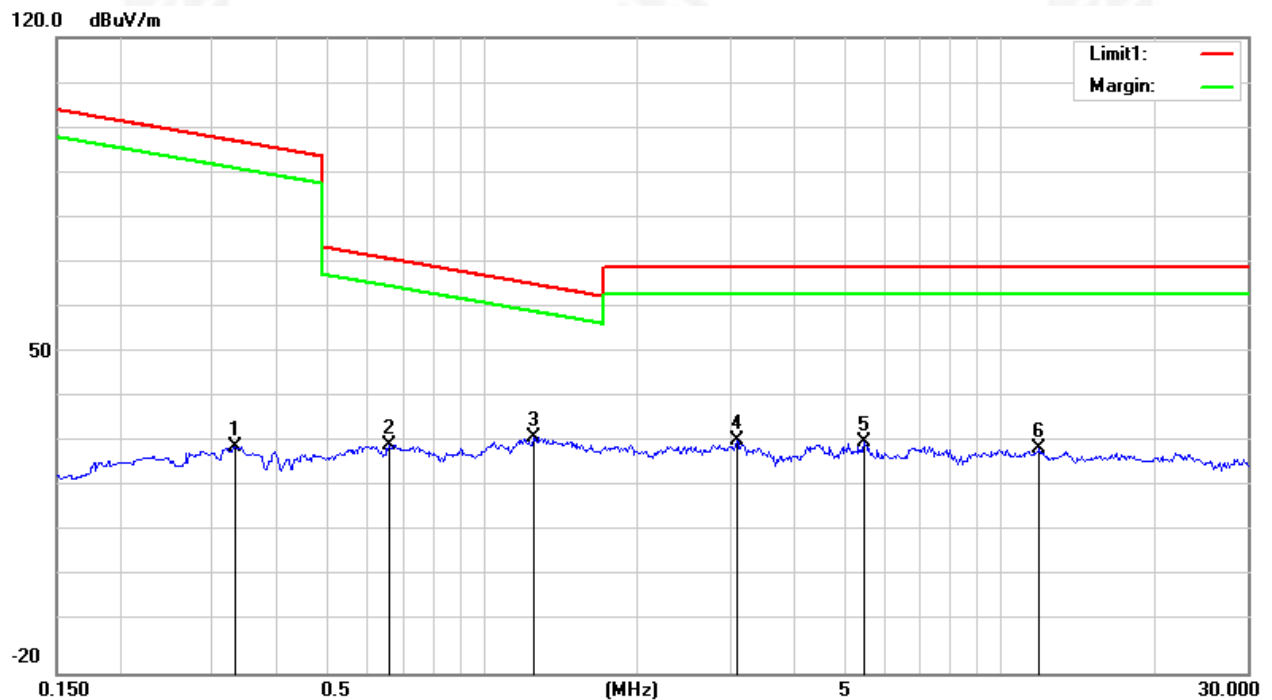
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0142	10.41	19.68	30.09	124.56	-94.47	AVG
2	0.0230	10.16	20.04	30.20	120.37	-90.17	AVG
3	0.0417	10.88	19.67	30.55	115.20	-84.65	AVG
4	0.0475	11.01	19.55	30.56	114.07	-83.51	AVG
5	0.0610	10.79	19.19	29.98	111.90	-81.92	AVG
6	0.0844	12.22	18.35	30.57	109.08	-78.51	AVG

Note:

1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-1) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5240MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3321	9.78	20.13	29.91	97.18	-67.27	AVG
2	0.6578	9.91	20.26	30.17	71.24	-41.07	QP
3	1.2540	11.68	20.25	31.93	65.64	-33.71	QP
4	3.1051	11.04	20.13	31.17	69.50	-38.33	QP
5	5.4633	10.33	20.47	30.80	69.50	-38.70	QP
6	11.8810	8.90	20.61	29.51	69.50	-39.99	QP

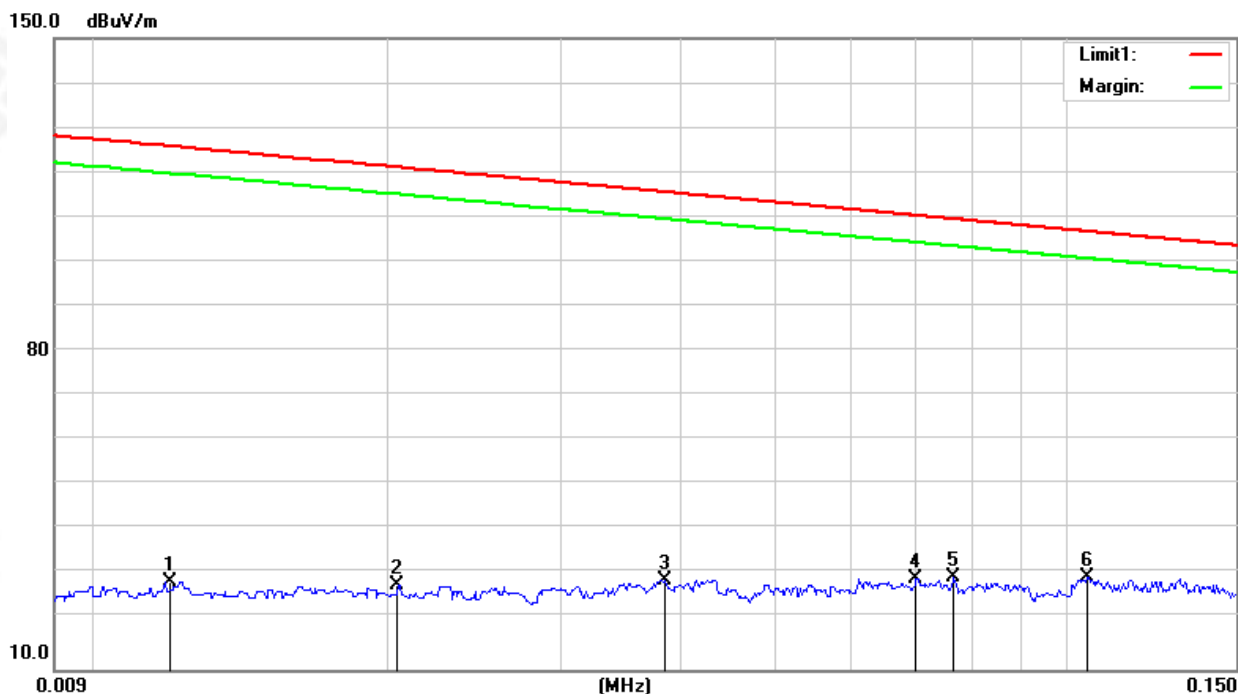
Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-1) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5240MHz was reported



Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coplanar
Test Mode:	TX 802.11n20 - 5240MHz		

9K-150K



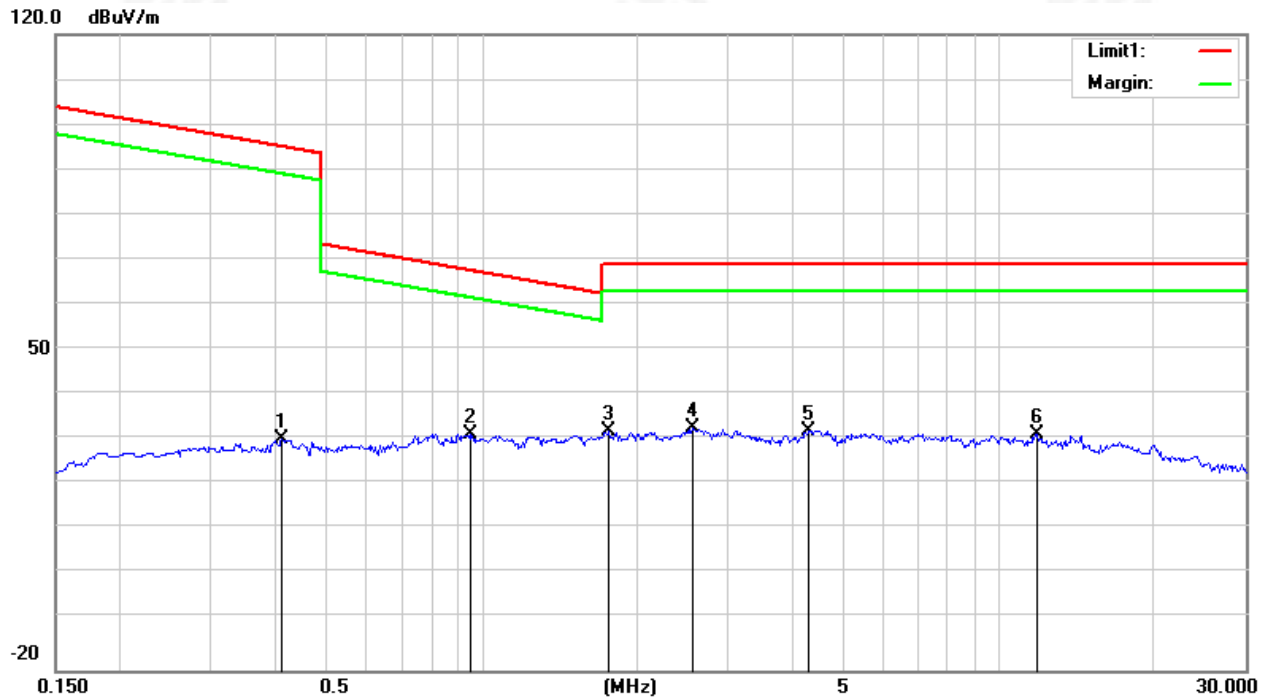
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0120	10.00	19.52	29.52	126.02	-96.50	AVG
2	0.0204	8.70	20.09	28.79	121.41	-92.62	AVG
3	0.0386	10.15	19.73	29.88	115.87	-85.99	AVG
4	0.0700	11.22	18.94	30.16	110.70	-80.54	AVG
5	0.0767	11.92	18.72	30.64	109.91	-79.27	AVG
6	0.1053	13.05	17.59	30.64	107.16	-76.52	QP

Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-1) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5240MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.4102	10.73	20.16	30.89	95.34	-64.45	AVG
2	0.9556	11.71	20.22	31.93	68.00	-36.07	QP
3	1.7620	12.34	20.35	32.69	69.50	-36.81	QP
4	2.5535	12.98	20.23	33.21	69.50	-36.29	QP
5	4.2991	12.37	20.43	32.80	69.50	-36.70	QP
6	11.8810	11.40	20.61	32.01	69.50	-37.49	QP

Notes:

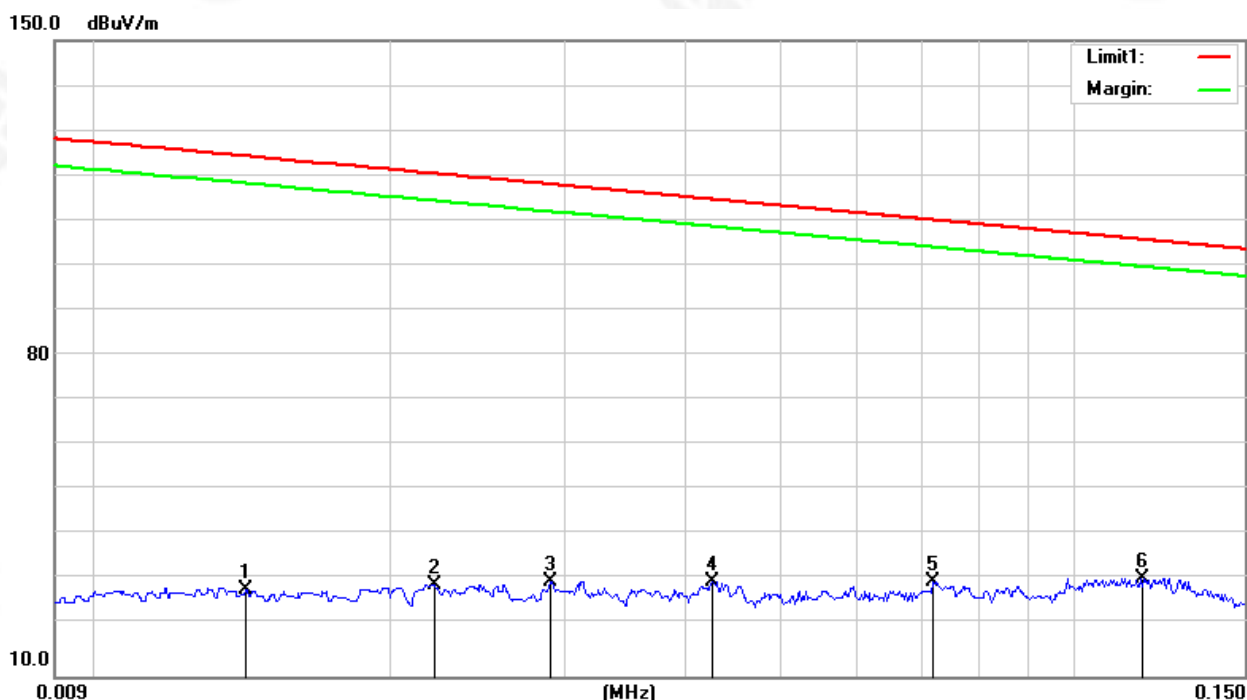
1. Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-1) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5240MHz was reported



U-NNI-2A

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coxial
Test Mode:	TX 802.11ax40 - 5310MHz		

9K-150K



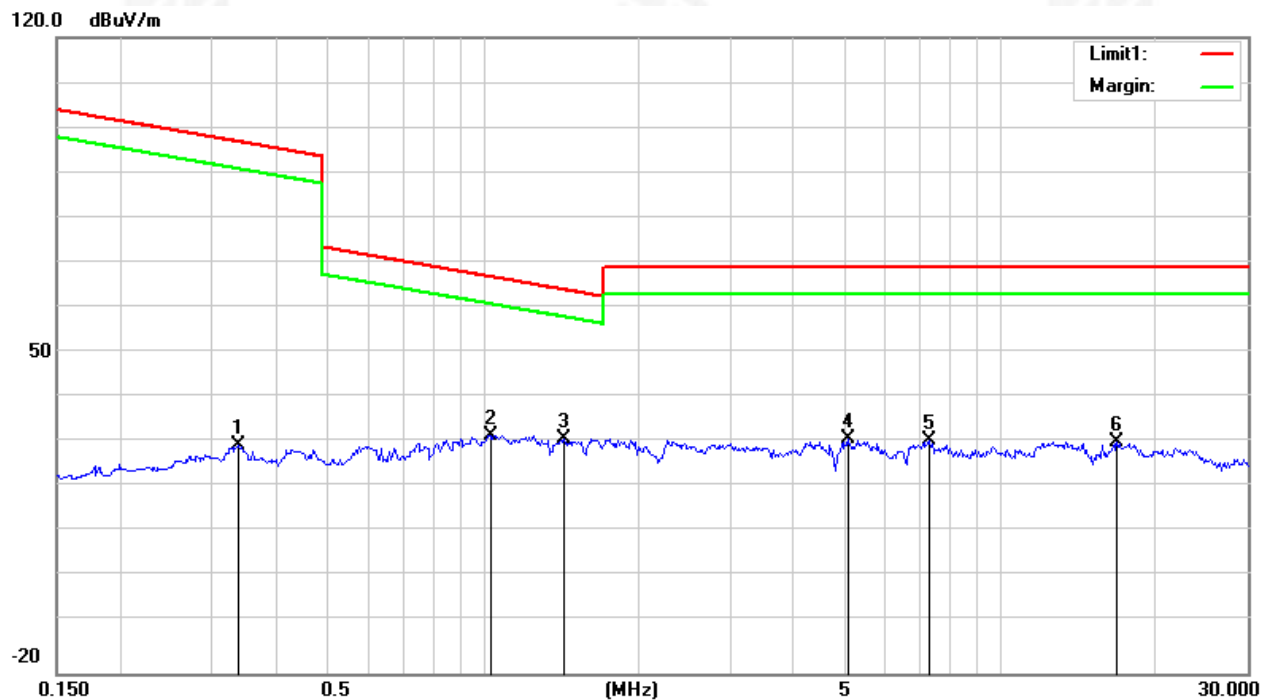
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0142	9.41	19.68	29.09	124.56	-95.47	AVG
2	0.0221	10.21	20.06	30.27	120.72	-90.45	AVG
3	0.0291	10.90	19.92	30.82	118.33	-87.51	AVG
4	0.0425	11.04	19.65	30.69	115.04	-84.35	AVG
5	0.0720	12.00	18.88	30.88	110.46	-79.58	AVG
6	0.1180	14.08	17.56	31.64	106.17	-74.53	AVG

Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2A) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax40 MIMO - 5310MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3371	9.96	20.13	30.09	97.05	-66.96	AVG
2	1.0320	12.26	20.21	32.47	67.33	-34.86	QP
3	1.4334	11.38	20.29	31.67	64.48	-32.81	QP
4	5.0750	11.20	20.50	31.70	69.50	-37.80	QP
5	7.3140	10.97	20.36	31.33	69.50	-38.17	QP
6	16.8063	9.16	21.73	30.89	69.50	-38.61	QP

Notes:

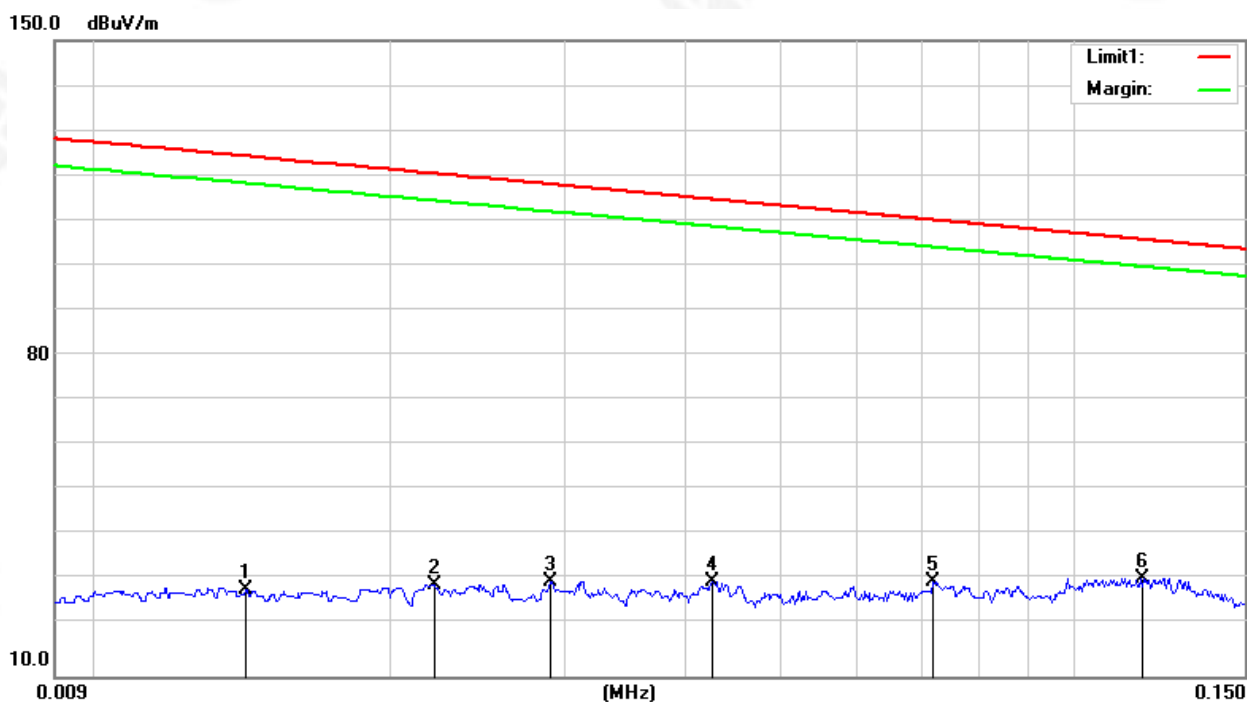
1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2A) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax40 MIMO - 5310MHz was reported



U-NNI-2A

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coplanar
Test Mode:	TX 802.11ax40 - 5310MHz		

9K-150K



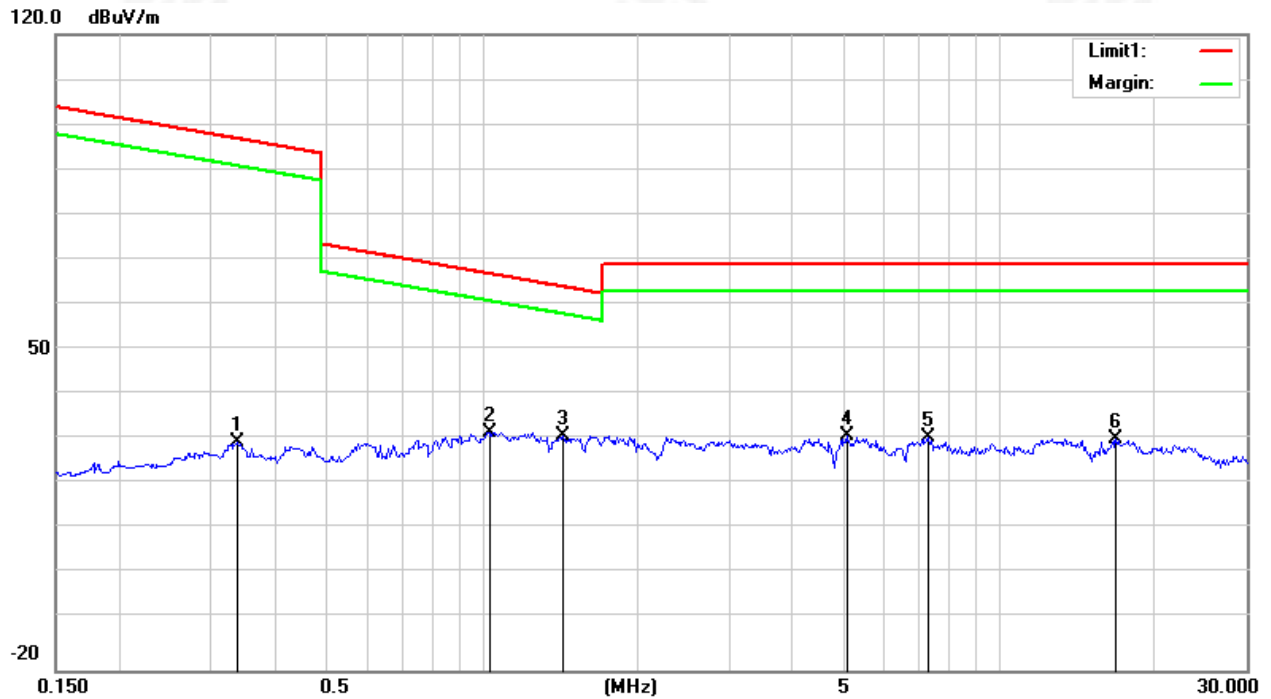
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0200	10.16	20.10	30.26	121.58	-91.32	AVG
2	0.0263	12.38	19.97	32.35	119.21	-86.86	AVG
3	0.0434	11.22	19.63	30.85	114.85	-84.00	AVG
4	0.0651	11.77	19.08	30.85	111.33	-80.48	AVG
5	0.0922	11.63	17.97	29.60	108.31	-78.71	QP
6	0.1145	12.36	17.57	29.93	106.43	-76.50	AVG

Notes:

1. Distance extrapolation factor = $40 \log(\text{specific distance/test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2A) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax40 MIMO - 5310MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5581	9.68	20.22	29.90	72.67	-42.77	QP
2	0.7832	12.61	20.29	32.90	69.73	-36.83	QP
3	2.2991	11.08	20.31	31.39	69.50	-38.11	QP
4	4.6573	11.06	20.47	31.53	69.50	-37.97	QP
5	7.8810	11.73	20.33	32.06	69.50	-37.44	QP
6	11.4032	10.98	20.51	31.49	69.50	-38.01	QP

Notes:

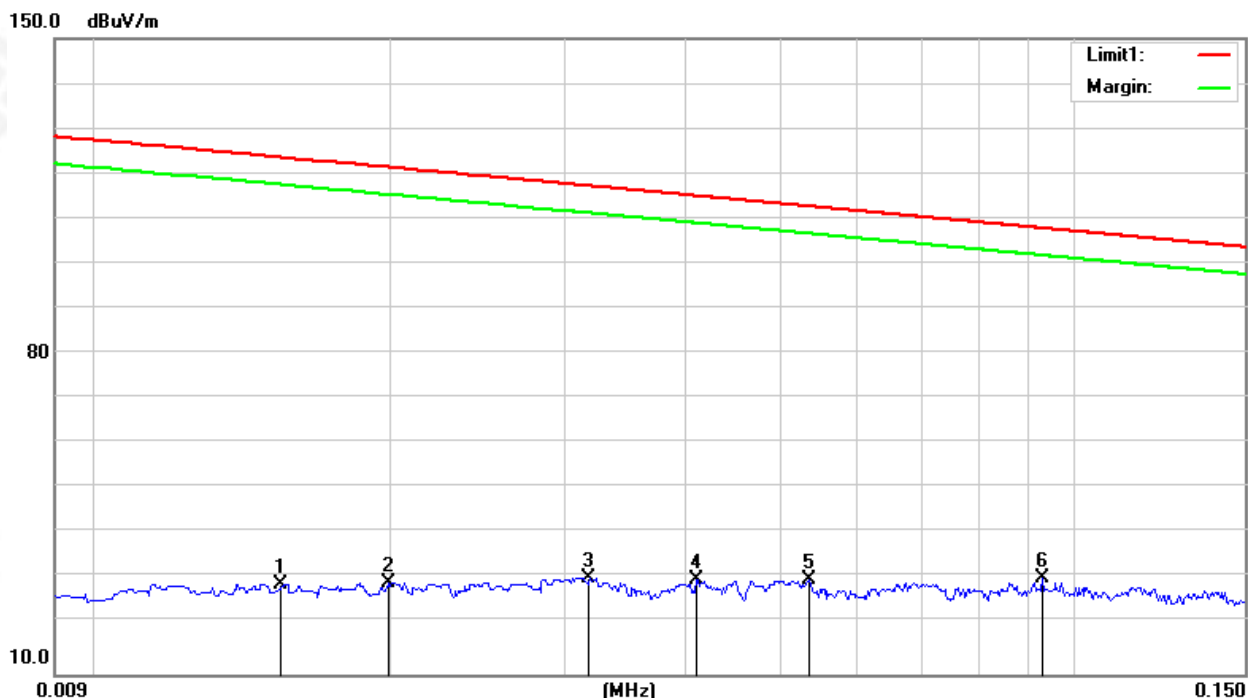
1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2A) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax40 MIMO - 5310MHz was reported



U-NNI-2C

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coxial
Test Mode:	TX 802.11n20 - 5500MHz		

9K-150K



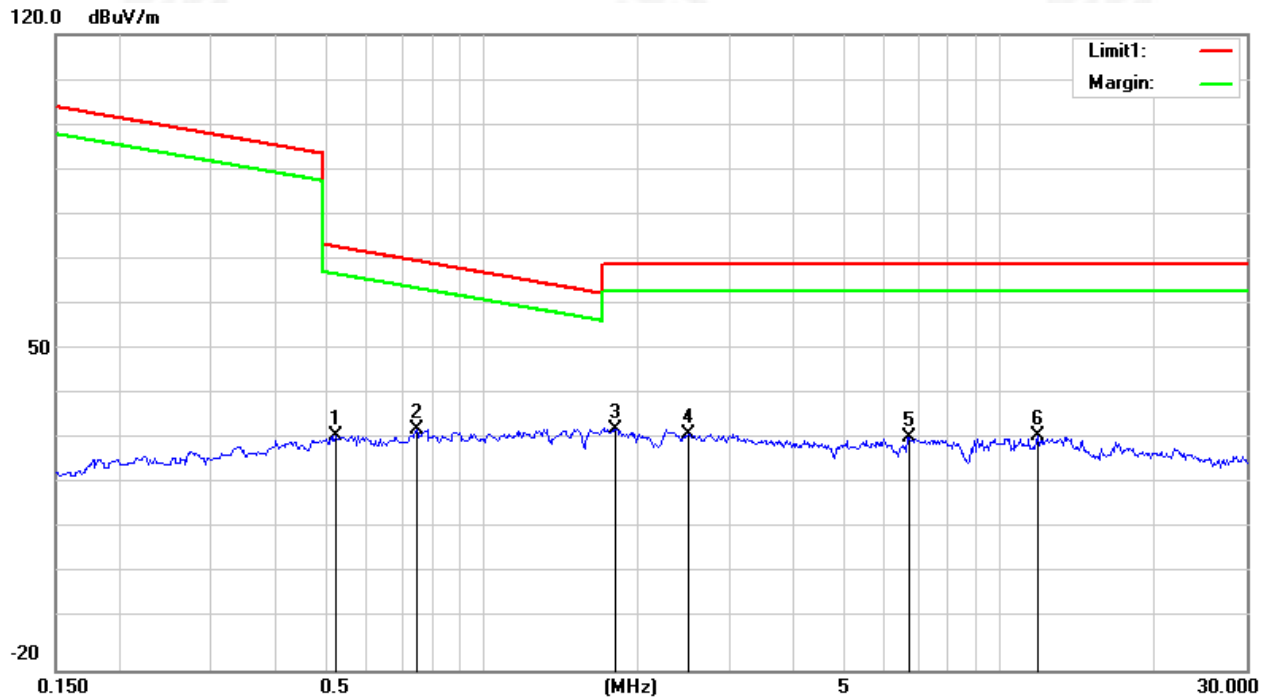
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0154	10.10	19.77	29.87	123.85	-93.98	AVG
2	0.0198	10.17	20.09	30.26	121.67	-91.41	AVG
3	0.0318	11.48	19.86	31.34	117.56	-86.22	AVG
4	0.0410	11.20	19.68	30.88	115.35	-84.47	AVG
5	0.0536	11.28	19.40	30.68	113.02	-82.34	AVG
6	0.0930	13.23	17.94	31.17	108.23	-77.06	QP

Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2C) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5500MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5210	11.31	20.21	31.52	73.27	-41.75	AVG
2	0.7470	12.68	20.30	32.98	70.14	-37.16	QP
3	1.8096	12.65	20.36	33.01	69.50	-36.49	QP
4	2.5081	11.70	20.25	31.95	69.50	-37.55	QP
5	6.6871	10.89	20.40	31.29	69.50	-38.21	QP
6	11.8810	10.90	20.61	31.51	69.50	-37.99	QP

Notes:

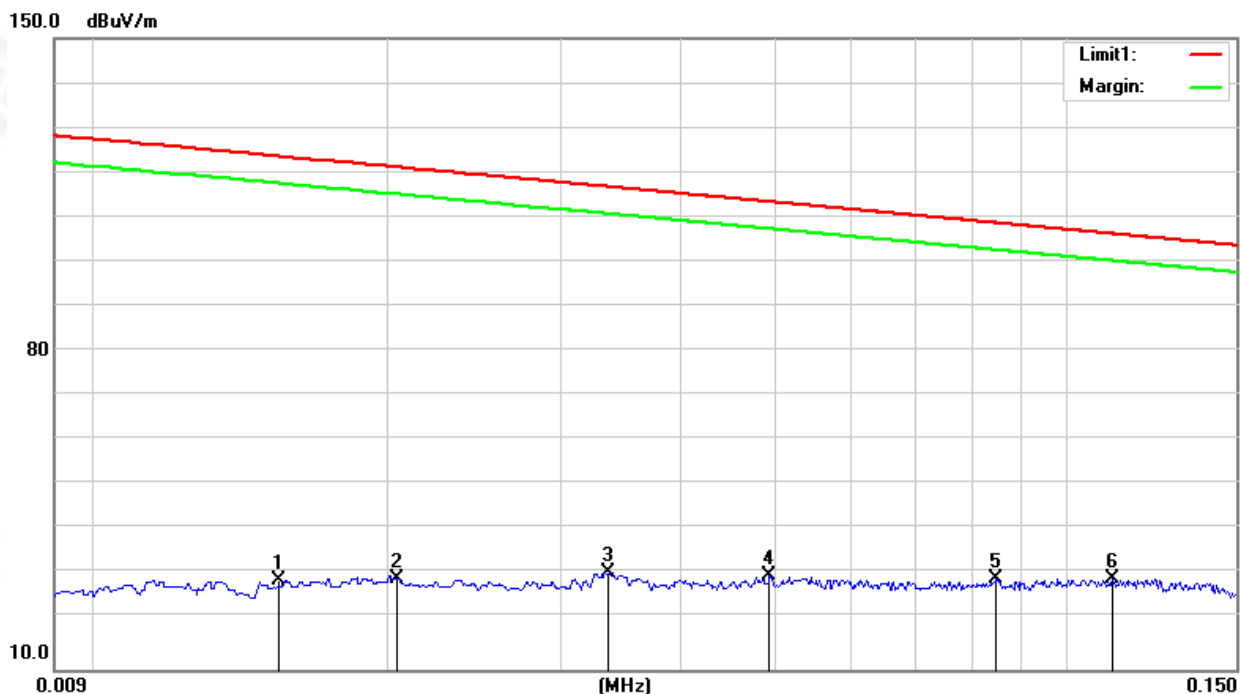
1. Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2C) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5500MHz was reported



U-NNI-2C

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coplanar
Test Mode:	TX 802.11n20 - 5500MHz		

9K-150K



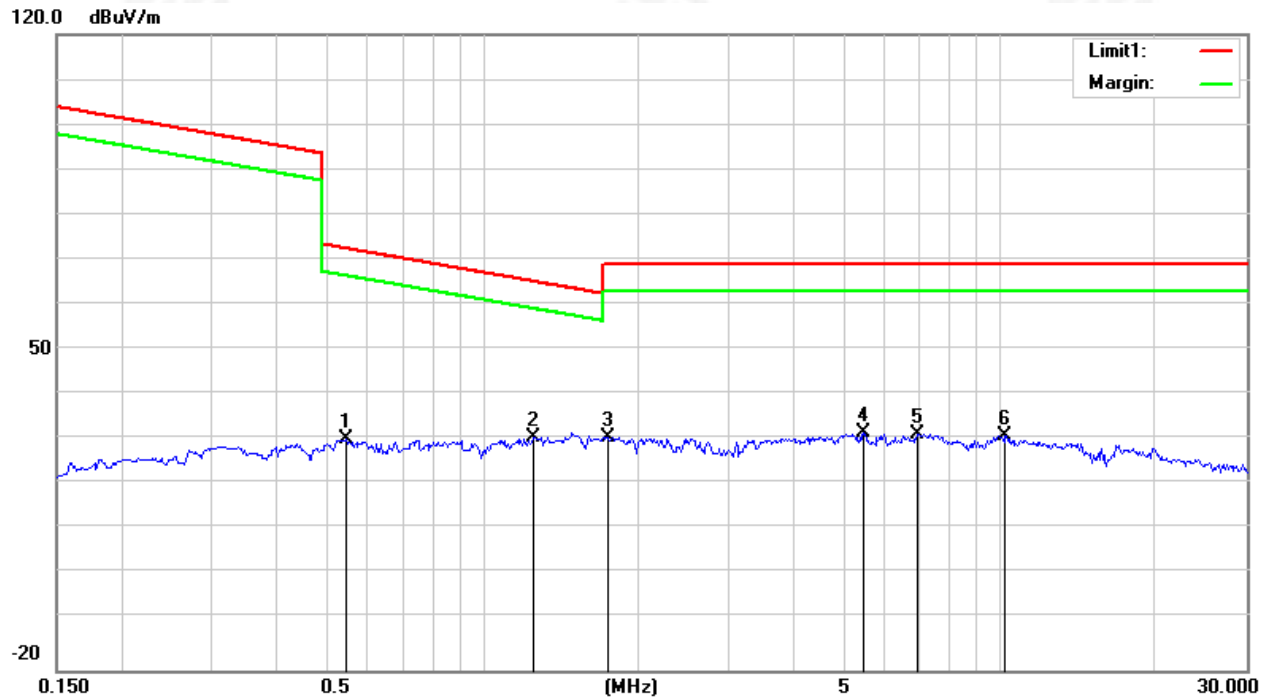
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0154	10.04	19.77	29.81	123.85	-94.04	AVG
2	0.0204	10.20	20.09	30.29	121.41	-91.12	AVG
3	0.0337	11.62	19.83	31.45	117.05	-85.60	AVG
4	0.0492	11.42	19.52	30.94	113.77	-82.83	AVG
5	0.0850	11.72	18.32	30.04	109.02	-78.98	AVG
6	0.1116	12.58	17.58	30.16	106.65	-76.49	AVG

Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2C) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5500MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5433	10.64	20.22	30.86	72.90	-42.04	AVG
2	1.2540	11.18	20.25	31.43	65.64	-34.21	QP
3	1.7437	11.02	20.35	31.37	69.50	-38.13	QP
4	5.4633	11.83	20.47	32.30	69.50	-37.20	QP
5	6.9260	11.70	20.38	32.08	69.50	-37.42	QP
6	10.2393	11.34	20.25	31.59	69.50	-37.91	QP

Notes:

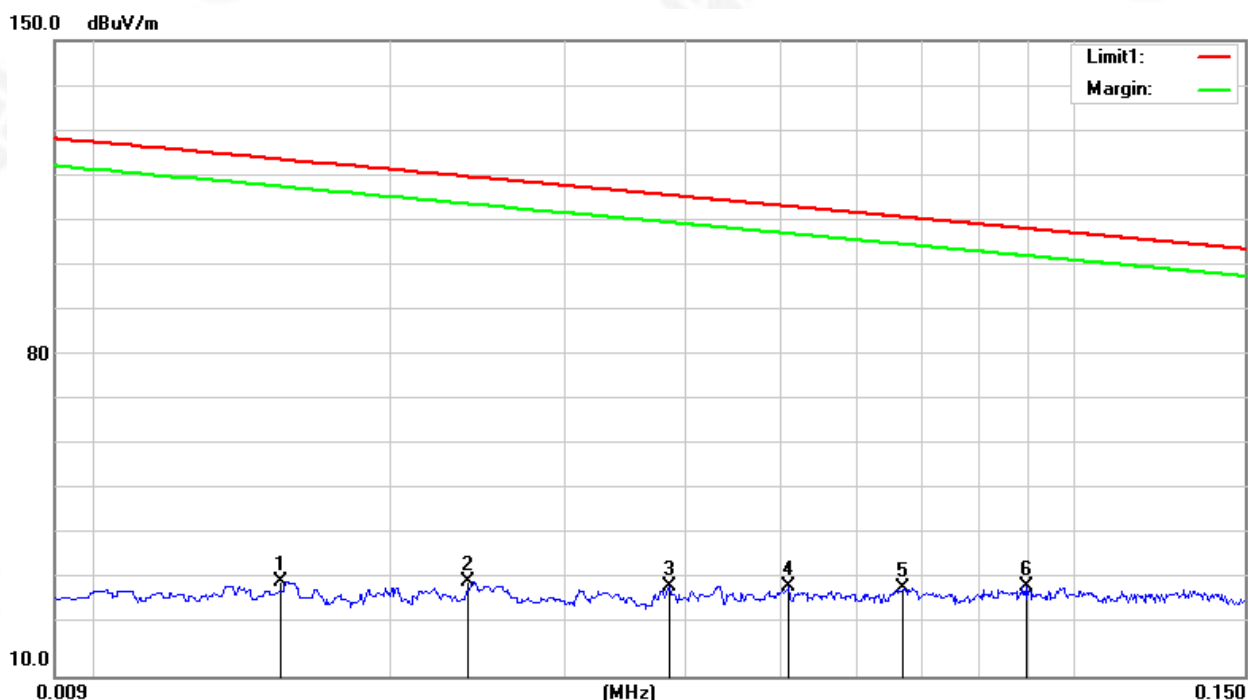
1. Distance extrapolation factor =40 log (specific distance/test distance)(dB);
2. Limit line = specific limits (dBuv) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-2C) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5500MHz was reported



U-NNI-3

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coxial
Test Mode:	TX 802.11ax80 - 5775MHz		

9K-150K



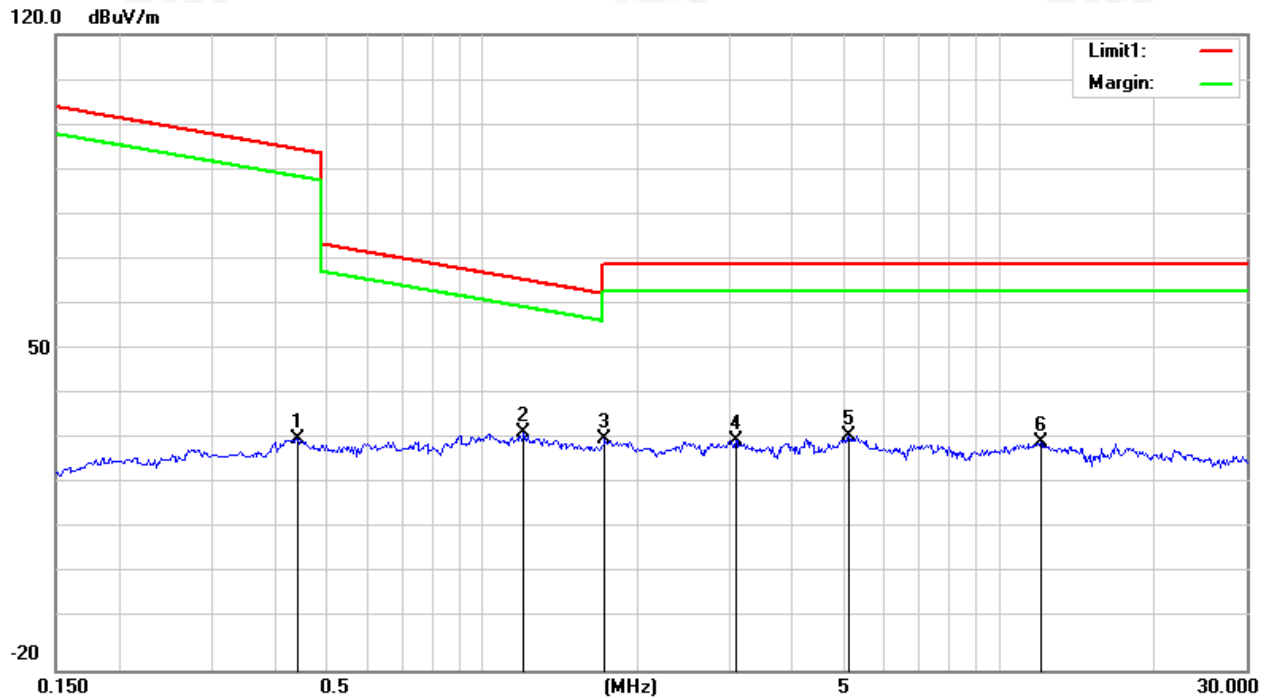
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0154	11.10	19.77	30.87	123.85	-92.98	AVG
2	0.0240	10.68	20.02	30.70	120.00	-89.30	AVG
3	0.0386	10.15	19.73	29.88	115.87	-85.99	AVG
4	0.0510	10.20	19.47	29.67	113.45	-83.78	AVG
5	0.0670	10.43	19.02	29.45	111.08	-81.63	AVG
6	0.0892	11.82	18.12	29.94	108.60	-78.66	AVG

Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-3) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax80 MIMO- 5775MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.4395	10.64	20.18	30.82	94.74	-63.92	AVG
2	1.2034	12.02	20.24	32.26	66.00	-33.74	QP
3	1.7320	10.47	20.35	30.82	69.50	-38.68	QP
4	3.1051	10.54	20.13	30.67	69.50	-38.83	QP
5	5.1350	11.00	20.49	31.49	69.50	-38.01	QP
6	12.0303	9.42	20.65	30.07	69.50	-39.43	QP

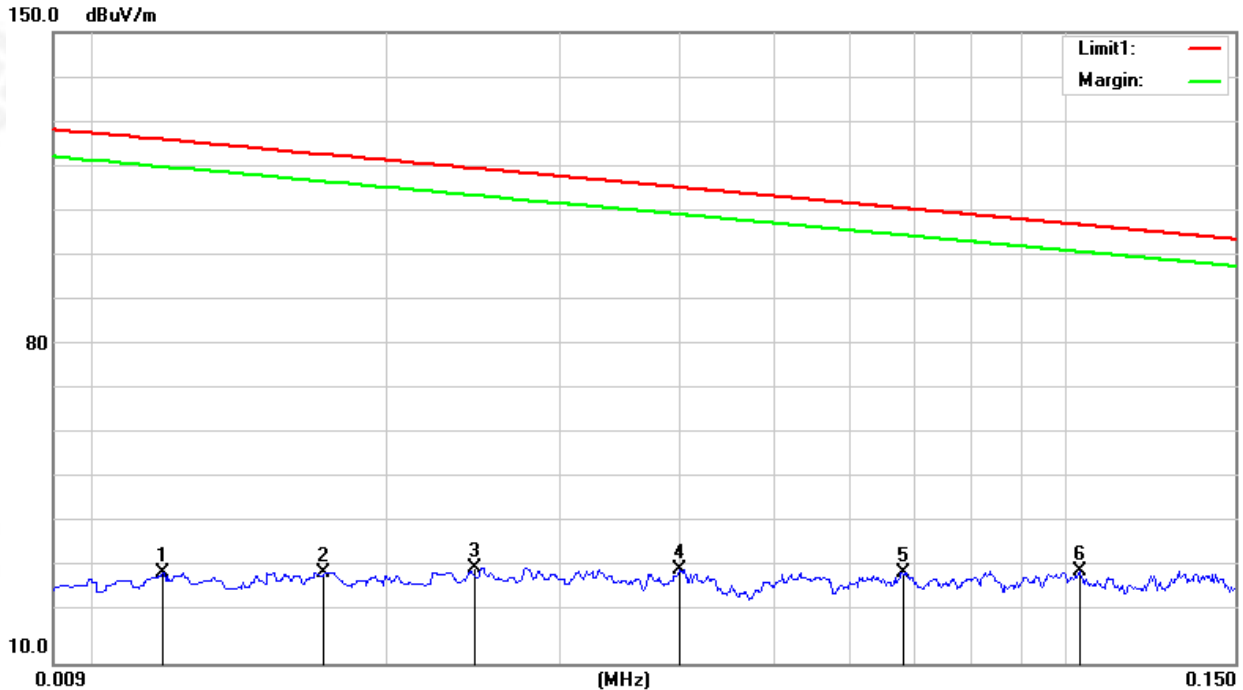
Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-3) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax80 MIMO- 5775MHz was reported



Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Coplanar
Test Mode:	TX 802.11ax80 - 5775MHz		

9K-150K



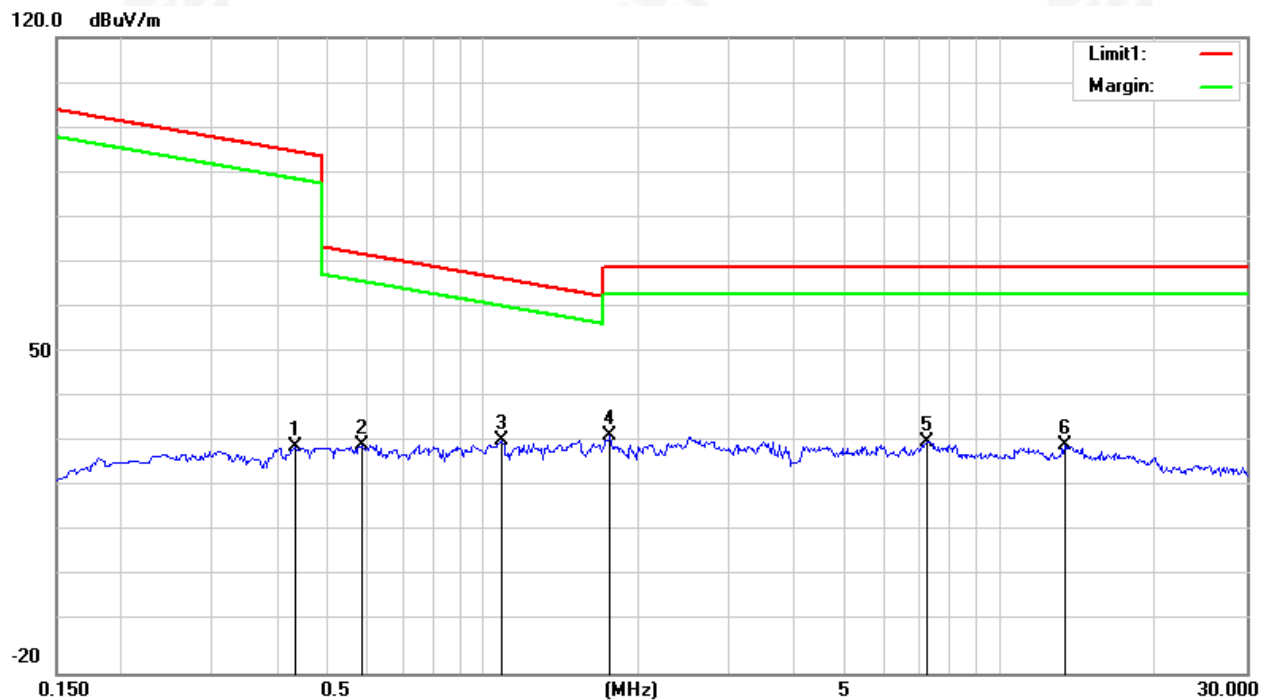
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0117	10.77	19.50	30.27	126.24	-95.97	AVG
2	0.0171	10.37	19.89	30.26	122.94	-92.68	AVG
3	0.0246	11.18	20.01	31.19	119.79	-88.60	AVG
4	0.0400	11.02	19.70	30.72	115.56	-84.84	AVG
5	0.0680	11.16	19.00	30.16	110.95	-80.79	AVG
6	0.1034	12.74	17.59	30.33	107.31	-76.98	QP

Notes:

1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-3) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax80 MIMO- 5775MHz was reported



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.4350	9.58	20.17	29.75	94.83	-65.08	AVG
2	0.5823	10.16	20.23	30.39	72.30	-41.91	QP
3	1.0881	10.94	20.22	31.16	66.87	-35.71	QP
4	1.7620	11.84	20.35	32.19	69.50	-37.31	QP
5	7.2244	10.55	20.37	30.92	69.50	-38.58	QP
6	13.3437	9.38	20.94	30.32	69.50	-39.18	QP

Notes:

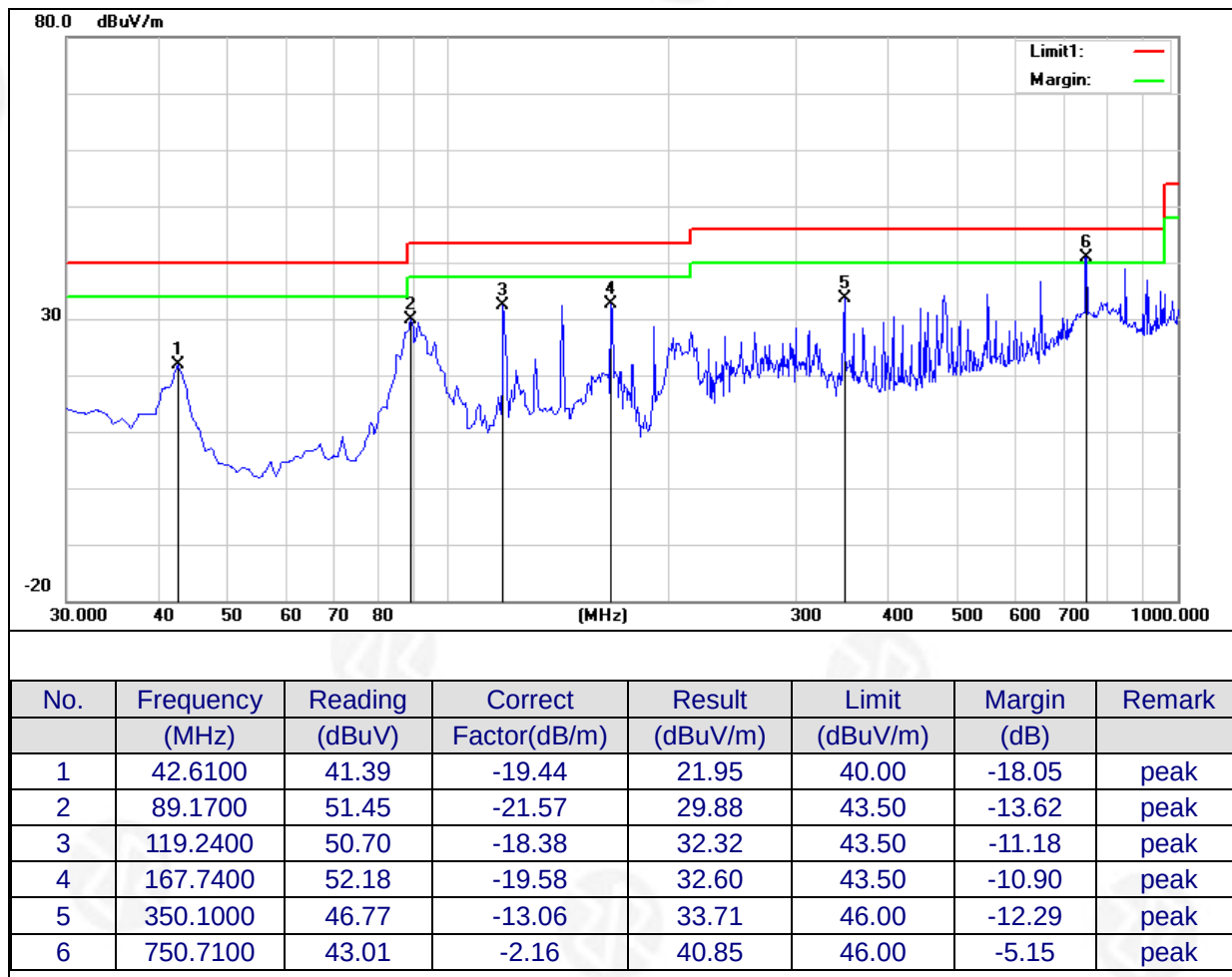
1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.
3. All modes of 5G RLAN (U-NNI-3) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax80 MIMO- 5775MHz was reported



Between 30MHz – 1GHz:

U-NNI-1

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Horizontal
Test Mode:	TX 802.11n20 - 5240MHz		

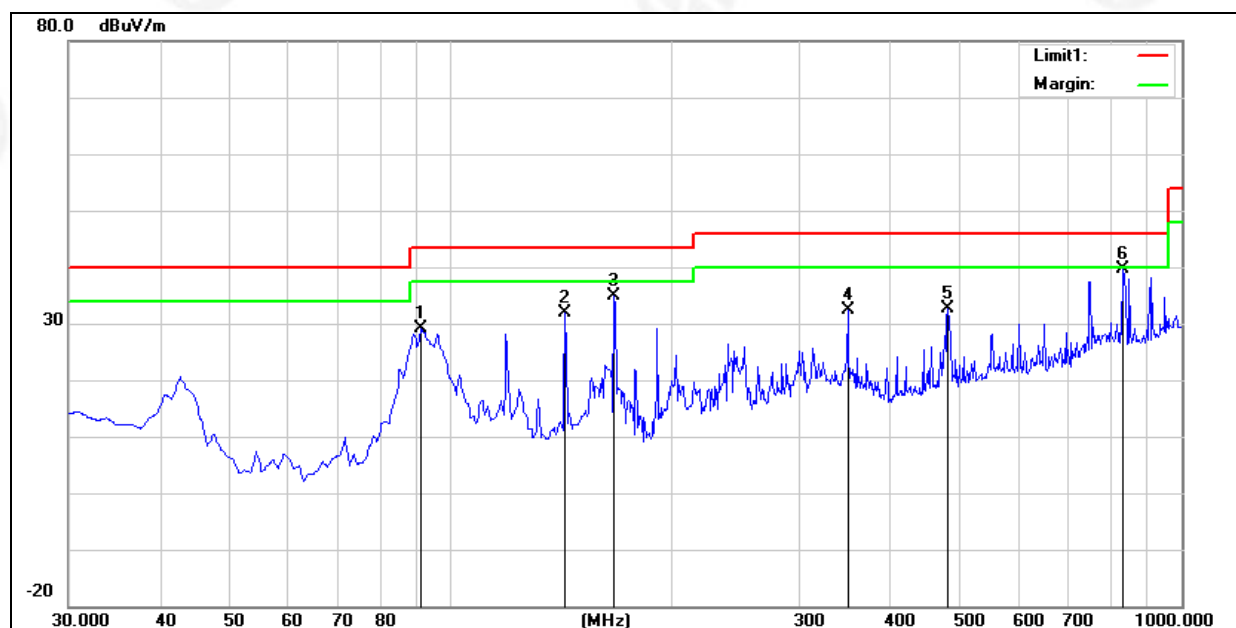


Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-1) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5240MHz was reported



Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Vertical
Test Mode:	TX 802.11n20 - 5240MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.1100	50.42	-21.31	29.11	43.50	-14.39	peak
2	143.4900	50.12	-18.23	31.89	43.50	-11.61	peak
3	167.7400	54.43	-19.58	34.85	43.50	-8.65	peak
4	350.1000	45.34	-13.06	32.28	46.00	-13.72	peak
5	480.0800	41.20	-8.65	32.55	46.00	-13.45	peak
6	833.1600	40.35	-0.62	39.73	46.00	-6.27	peak

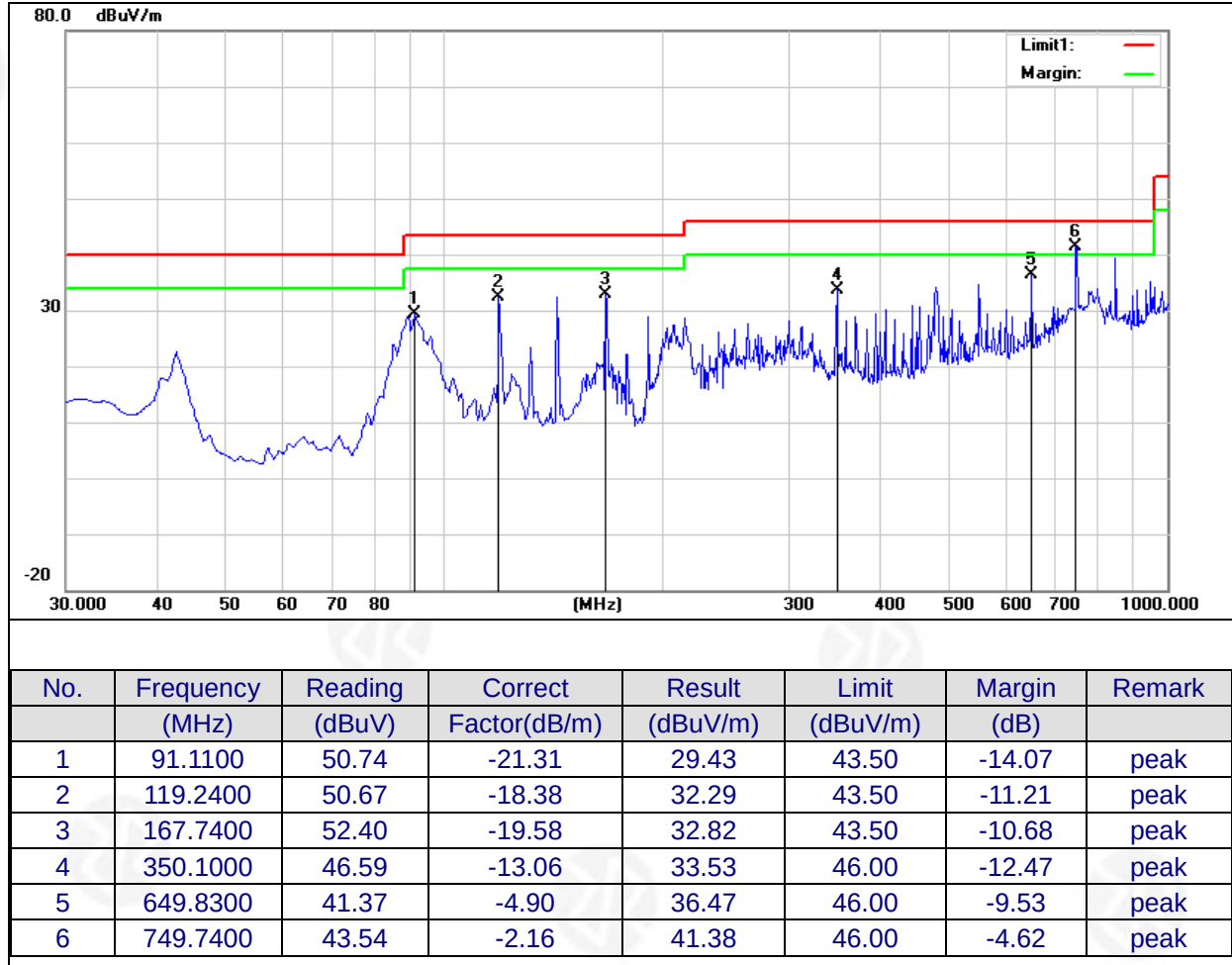
Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-1) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5240MHz was reported



U-NNI-2A

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Horizontal
Test Mode:	TX 802.11ax40 - 5310MHz		

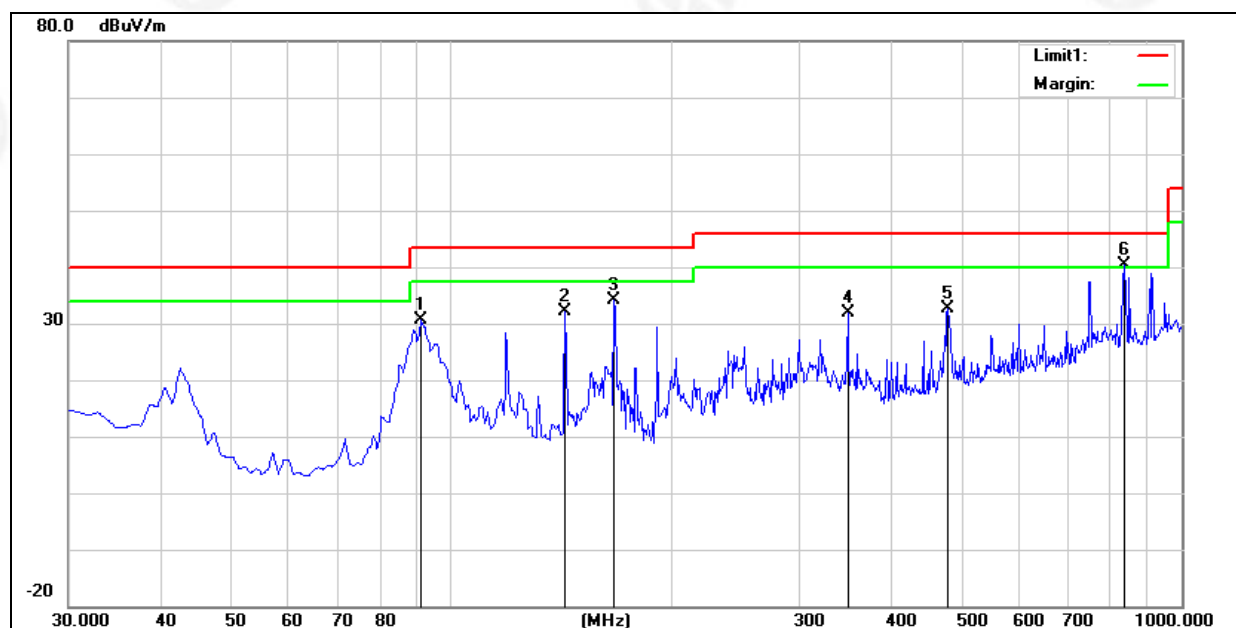


Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-2A) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax40 MIMO - 5310MHz was reported



Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Vertical
Test Mode:	TX 802.11ax40 - 5310MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.1100	51.90	-21.31	30.59	43.50	-12.91	peak
2	143.4900	50.47	-18.23	32.24	43.50	-11.26	peak
3	167.7400	53.59	-19.58	34.01	43.50	-9.49	peak
4	350.1000	44.99	-13.06	31.93	46.00	-14.07	peak
5	480.0800	41.21	-8.65	32.56	46.00	-13.44	peak
6	835.1000	40.90	-0.54	40.36	46.00	-5.64	peak

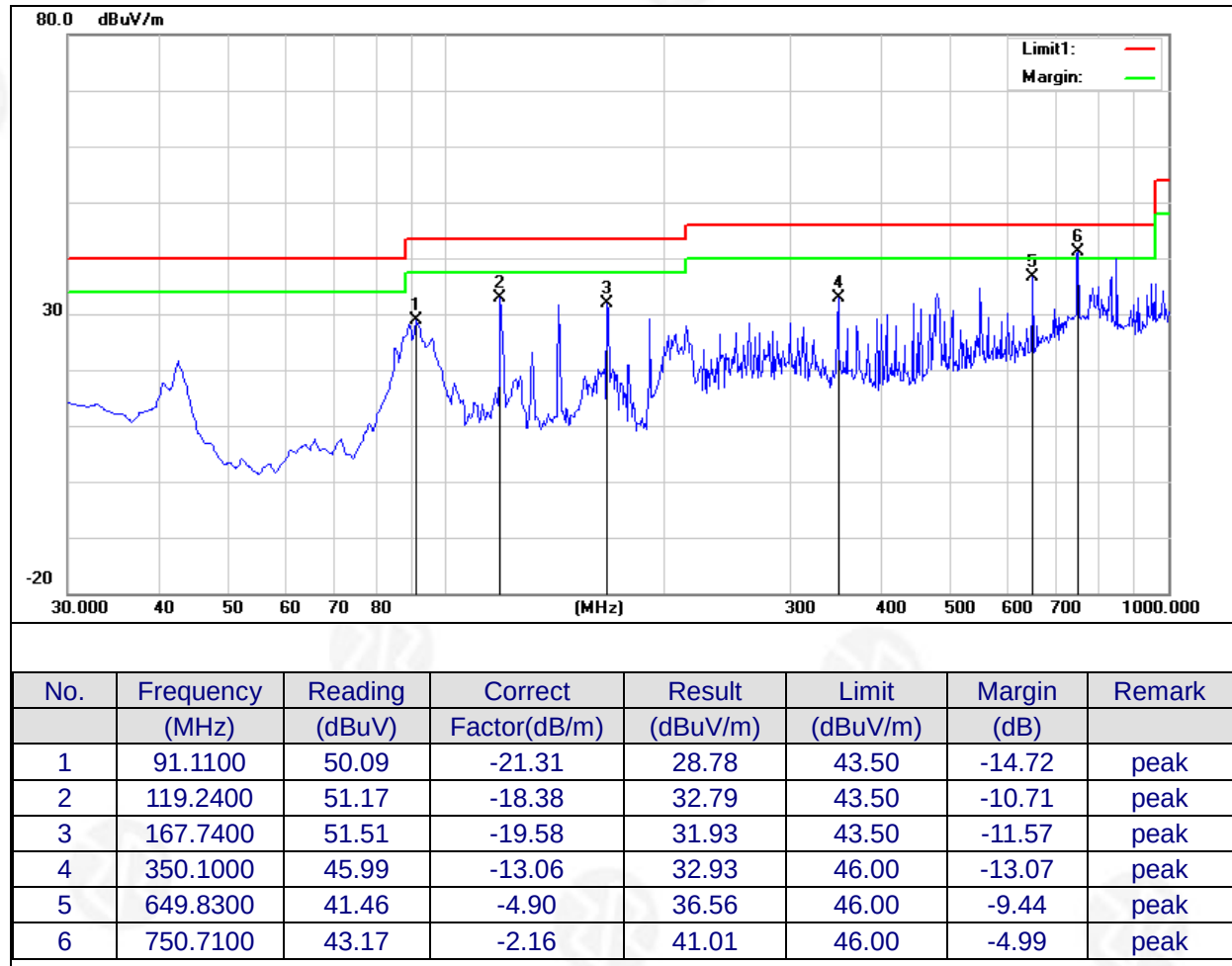
Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-2A) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax40 MIMO - 5310MHz was reported



U-NNI-2C

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Horizontal
Test Mode:	TX 802.11n20 - 5500MHz		

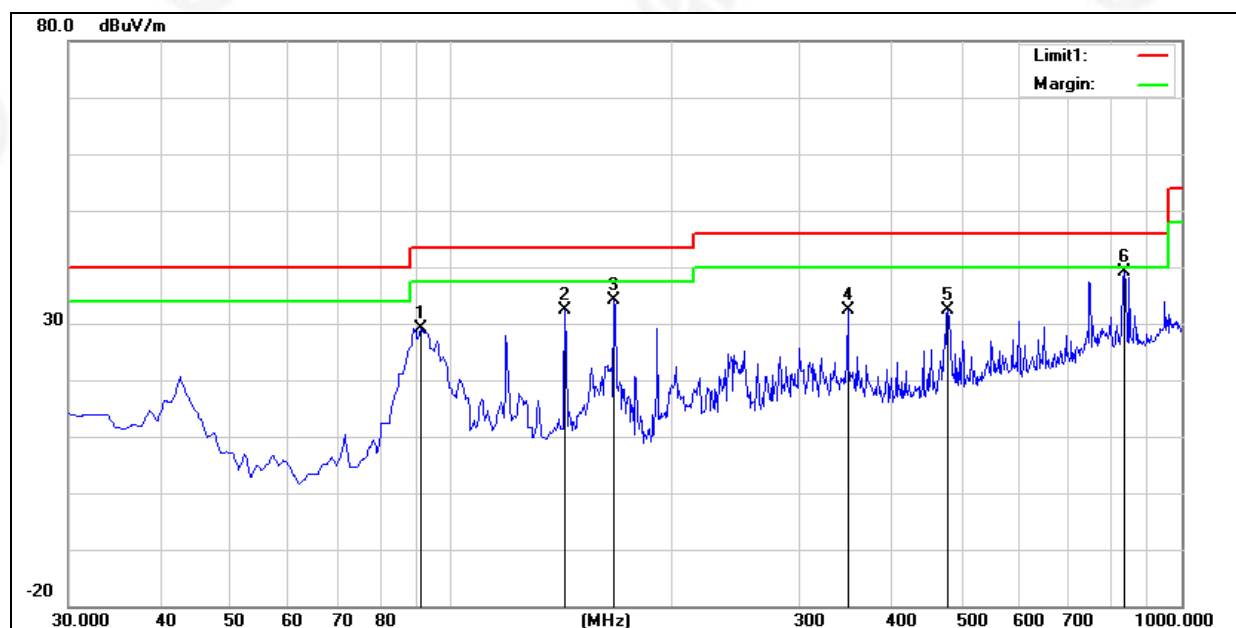


Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-2C) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5500MHz was reported



Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Vertical
Test Mode:	TX 802.11n20 - 5500MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.1100	50.37	-21.31	29.06	43.50	-14.44	peak
2	143.4900	50.54	-18.23	32.31	43.50	-11.19	peak
3	167.7400	53.81	-19.58	34.23	43.50	-9.27	peak
4	350.1000	45.36	-13.06	32.30	46.00	-13.70	peak
5	480.0800	40.97	-8.65	32.32	46.00	-13.68	peak
6	837.0400	39.56	-0.46	39.10	46.00	-6.90	peak

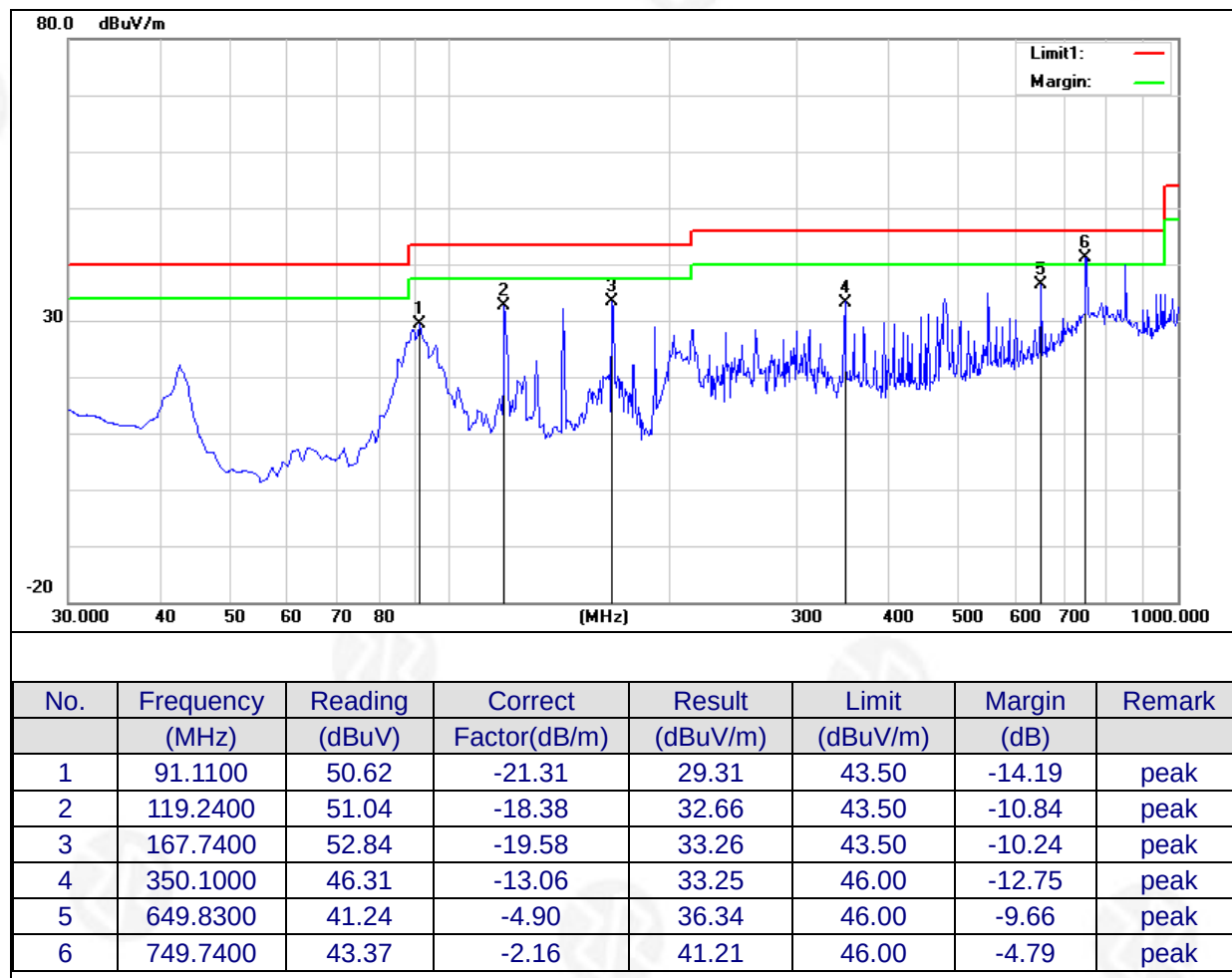
Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-2C) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11n20 MIMO - 5500MHz was reported



U-NNI-3

Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Horizontal
Test Mode:	TX 802.11ax80 - 5775MHz		

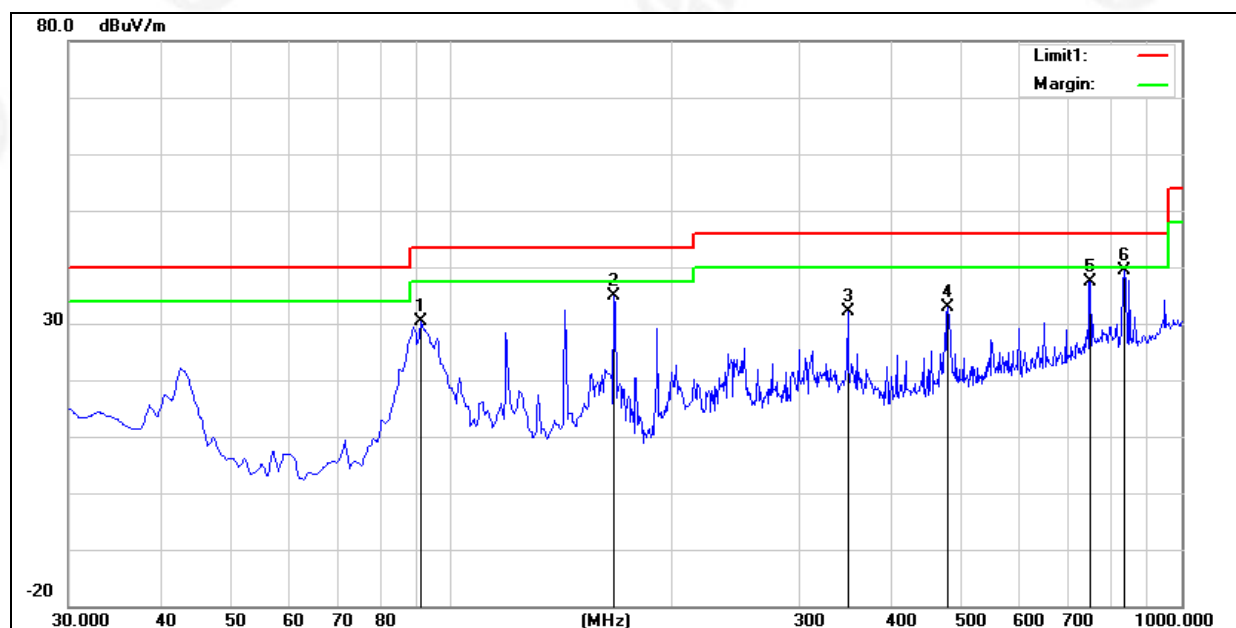


Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-3) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax80 MIMO - 5775MHz was reported



Temperature:	23.7℃	Relative Humidity:	54%
Test Voltage:	DC 12V	Polarization:	Vertical
Test Mode:	TX 802.11ax80 - 5775MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.1100	51.70	-21.31	30.39	43.50	-13.11	peak
2	167.7400	54.45	-19.58	34.87	43.50	-8.63	peak
3	350.1000	45.07	-13.06	32.01	46.00	-13.99	peak
4	480.0800	41.47	-8.65	32.82	46.00	-13.18	peak
5	750.7100	39.43	-2.16	37.27	46.00	-8.73	peak
6	838.0100	39.85	-0.42	39.43	46.00	-6.57	peak

Notes:

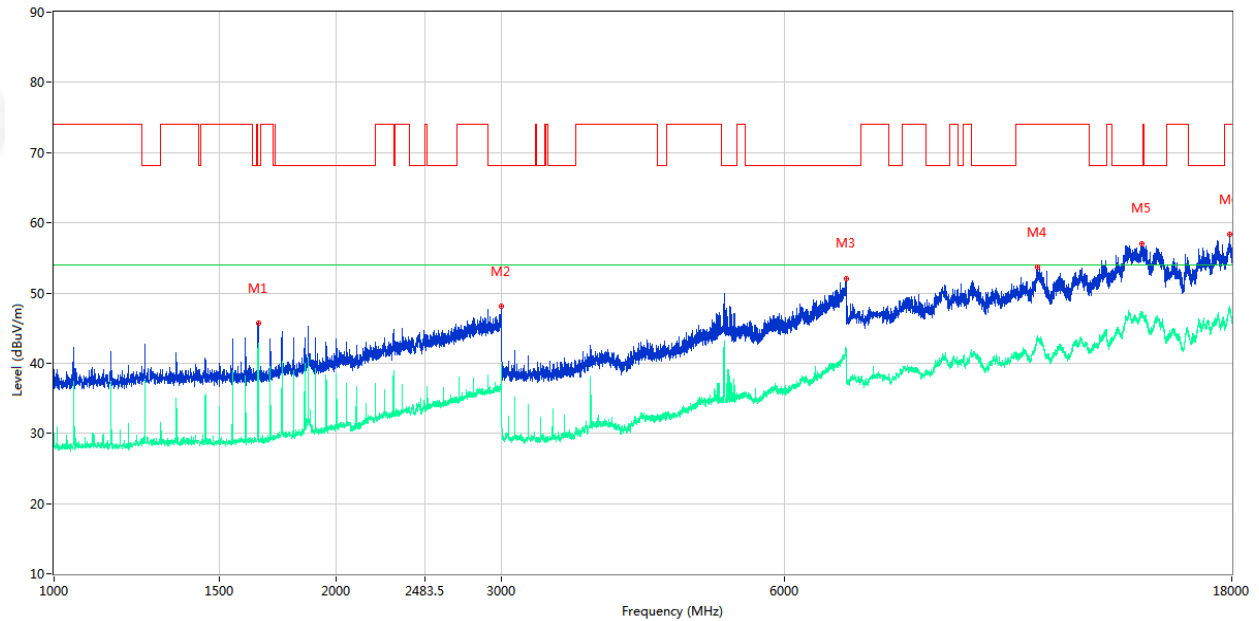
1. An initial pre-scan was performed on the peak detector.
2. Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin = Measurement Level-Limit.
7. All modes of 5G RLAN (U-NNI-3) 802.11a/n20/ac20/ax20/n40/ac40/ax40/ac80/ax80 were tested at Low, Middle, and High channel; only the worst result of 802.11ax80 MIMO - 5775MHz was reported



Above 1GHz

U-NNI-1
802.11n20-MIMO
Low Channel
Horizontal

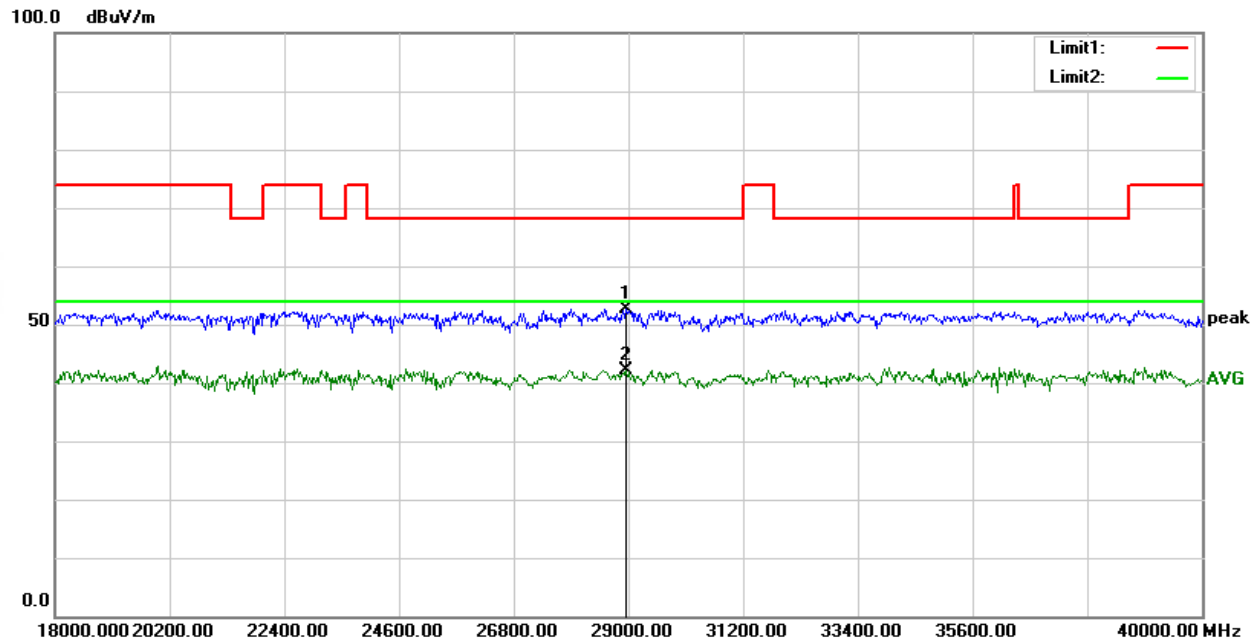
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1650.000	45.68	-0.97	68.2	-22.52	Peak	169.90	Horizontal	Pass
1**	1650.000	42.81	-0.97	54.0	-11.19	AV	169.90	Horizontal	Pass
2	2999.500	48.16	5.46	68.2	-20.04	Peak	185.20	Horizontal	Pass
2**	2999.500	38.67	5.46	54.0	-15.33	AV	185.20	Horizontal	Pass
3	6986.000	52.11	1.21	68.2	-16.09	Peak	211.90	Horizontal	Pass
3**	6986.000	41.57	1.21	54.0	-12.43	AV	211.90	Horizontal	Pass
4	11171.750	53.72	2.47	74.0	-20.28	Peak	0.50	Horizontal	Pass
4**	11171.750	43.40	2.47	54.0	-10.60	AV	0.50	Horizontal	Pass
5	14444.250	57.06	6.68	68.2	-11.14	Peak	115.80	Horizontal	Pass
5**	14444.250	46.79	6.68	54.0	-7.21	AV	115.80	Horizontal	Pass
6	17903.749	58.33	7.21	74.0	-15.67	Peak	41.50	Horizontal	Pass
6**	17903.749	47.62	7.21	54.0	-6.38	AV	41.50	Horizontal	Pass



18GHz-40GHz

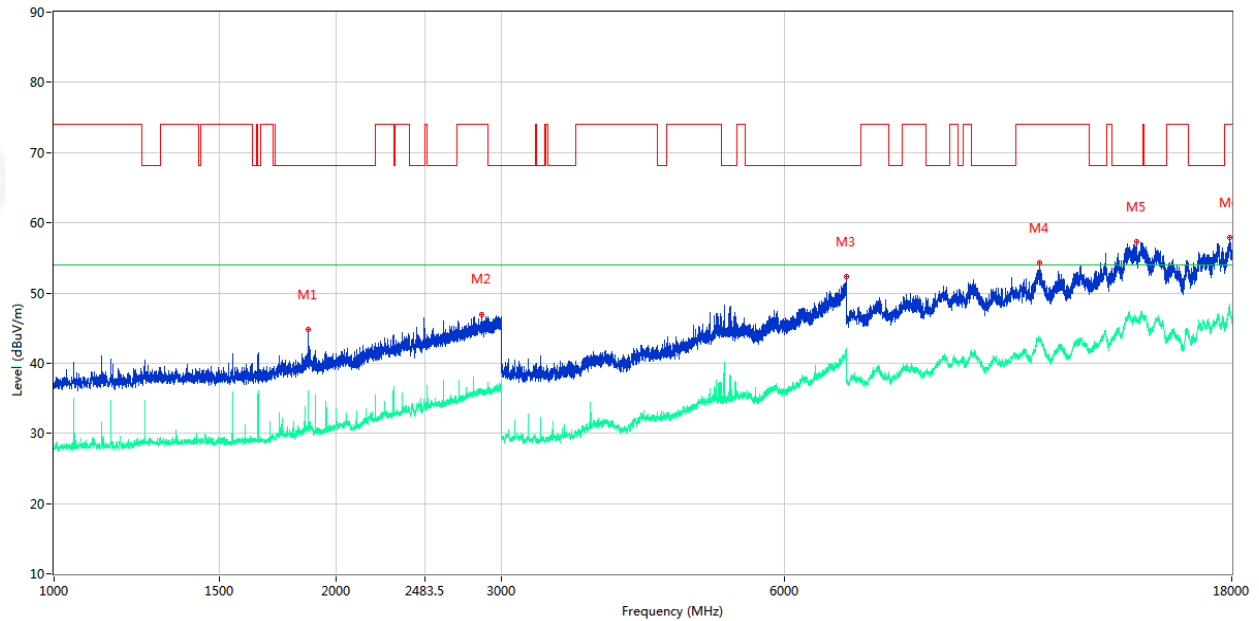


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	28956.000	43.76	8.91	52.67	68.20	-15.53	peak
2	28956.000	33.25	8.91	42.16	54.00	-11.84	AVG



Vertical 1GHz-18GHz

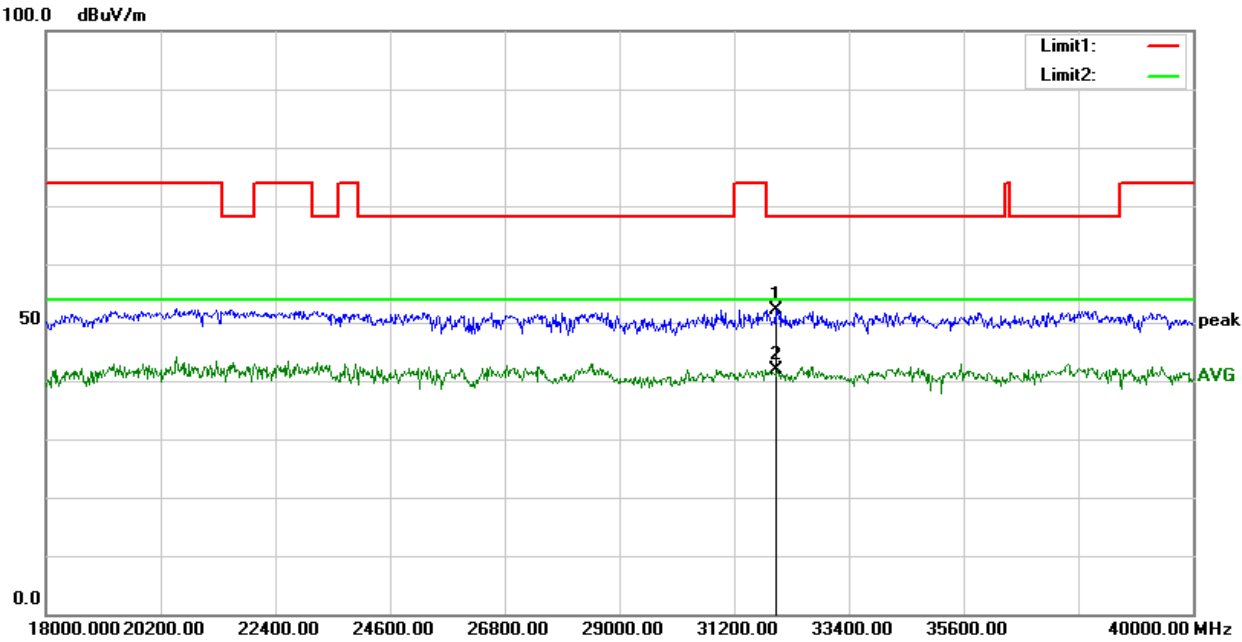
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1865.000	44.77	-0.09	68.2	-23.43	Peak	278.50	Vertical	Pass
1**	1865.000	32.39	-0.09	54.0	-21.61	AV	278.50	Vertical	Pass
2	2860.000	46.98	4.98	74.0	-27.02	Peak	306.40	Vertical	Pass
2**	2860.000	35.76	4.98	54.0	-18.24	AV	306.40	Vertical	Pass
3	6993.000	52.27	1.26	68.2	-15.93	Peak	203.70	Vertical	Pass
3**	6993.000	41.70	1.26	54.0	-12.30	AV	203.70	Vertical	Pass
4	11246.000	54.32	2.46	74.0	-19.68	Peak	175.10	Vertical	Pass
4**	11246.000	43.53	2.46	54.0	-10.47	AV	175.10	Vertical	Pass
5	14243.500	57.30	6.93	68.2	-10.90	Peak	325.00	Vertical	Pass
5**	14243.500	46.50	6.93	54.0	-7.50	AV	325.00	Vertical	Pass
6	17903.749	57.85	7.21	74.0	-16.15	Peak	0.00	Vertical	Pass
6**	17903.749	47.88	7.21	54.0	-6.12	AV	0.00	Vertical	Pass



18GHz-40GHz

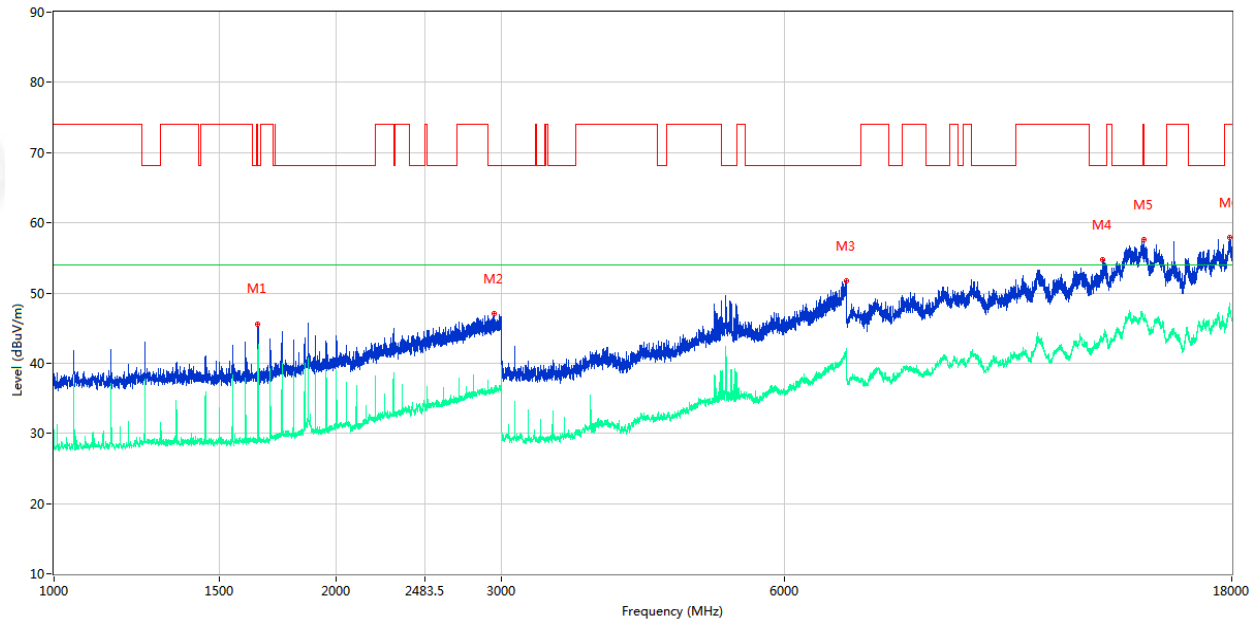


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31992.000	42.99	9.24	52.23	68.20	-15.97	peak
2	31992.000	32.62	9.24	41.86	54.00	-12.14	AVG



Mid Channel
Horizontal
1GHz-18GHz

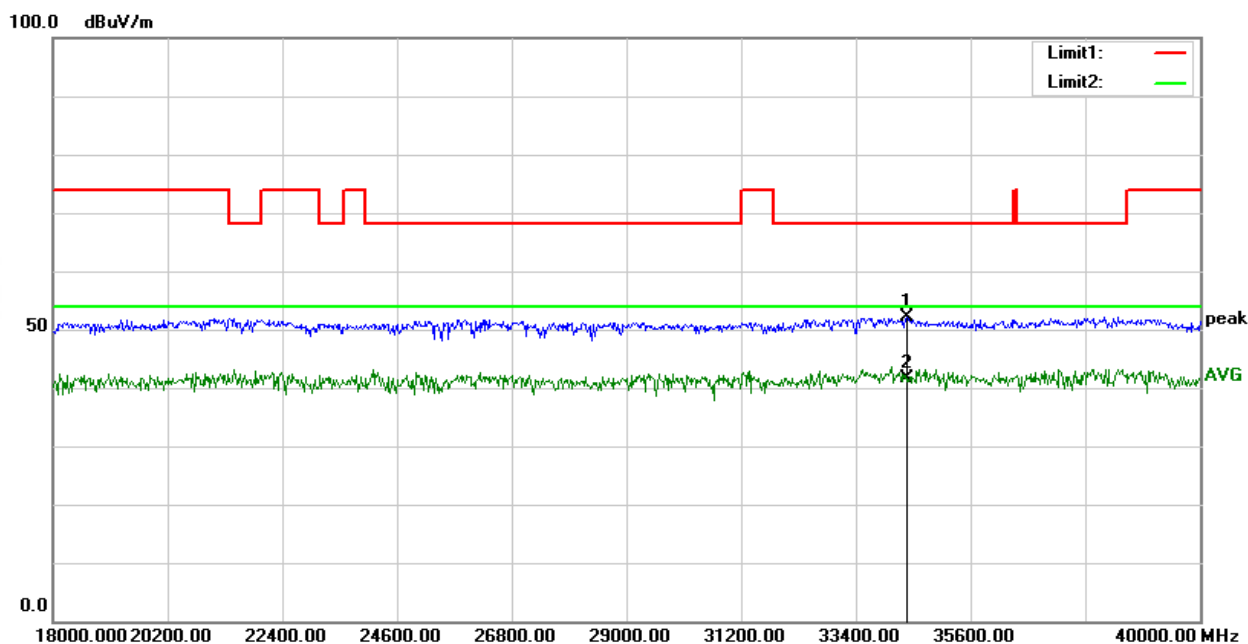
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1649.500	45.62	-0.96	68.2	-22.58	Peak	251.80	Horizontal	Pass
1**	1649.500	41.40	-0.96	54.0	-12.60	AV	251.80	Horizontal	Pass
2	2942.000	47.06	5.16	68.2	-21.14	Peak	30.50	Horizontal	Pass
2**	2942.000	36.34	5.16	54.0	-17.66	AV	30.50	Horizontal	Pass
3	6998.000	51.74	1.30	68.2	-16.46	Peak	174.70	Horizontal	Pass
3**	6998.000	41.99	1.30	54.0	-12.01	AV	174.70	Horizontal	Pass
4	13096.750	54.72	4.46	68.2	-13.48	Peak	252.80	Horizontal	Pass
4**	13096.750	43.48	4.46	54.0	-10.52	AV	252.80	Horizontal	Pass
5	14493.750	57.63	6.32	74.0	-16.37	Peak	121.60	Horizontal	Pass
5**	14493.750	46.41	6.32	54.0	-7.59	AV	121.60	Horizontal	Pass
6	17895.500	57.93	7.20	74.0	-16.07	Peak	184.80	Horizontal	Pass
6**	17895.500	47.66	7.20	54.0	-6.34	AV	184.80	Horizontal	Pass



18GHz-40GHz

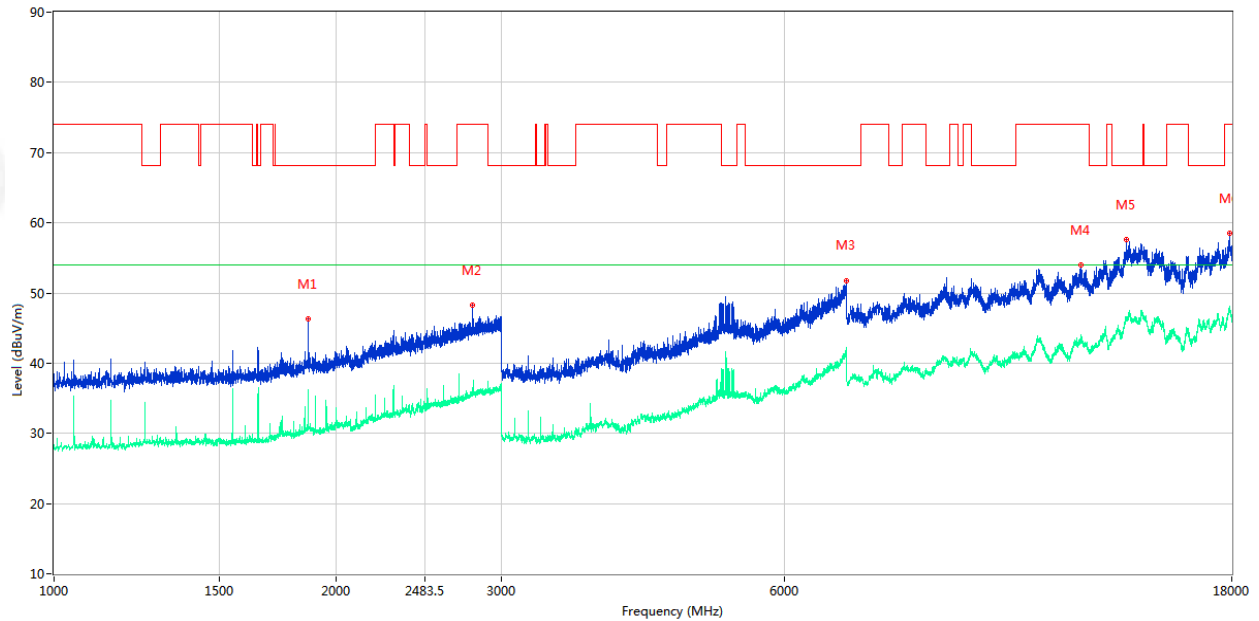


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34390.000	42.66	9.53	52.19	68.20	-16.01	peak
2	34390.000	31.98	9.53	41.51	54.00	-12.49	AVG



Vertical 1GHz-18GHz

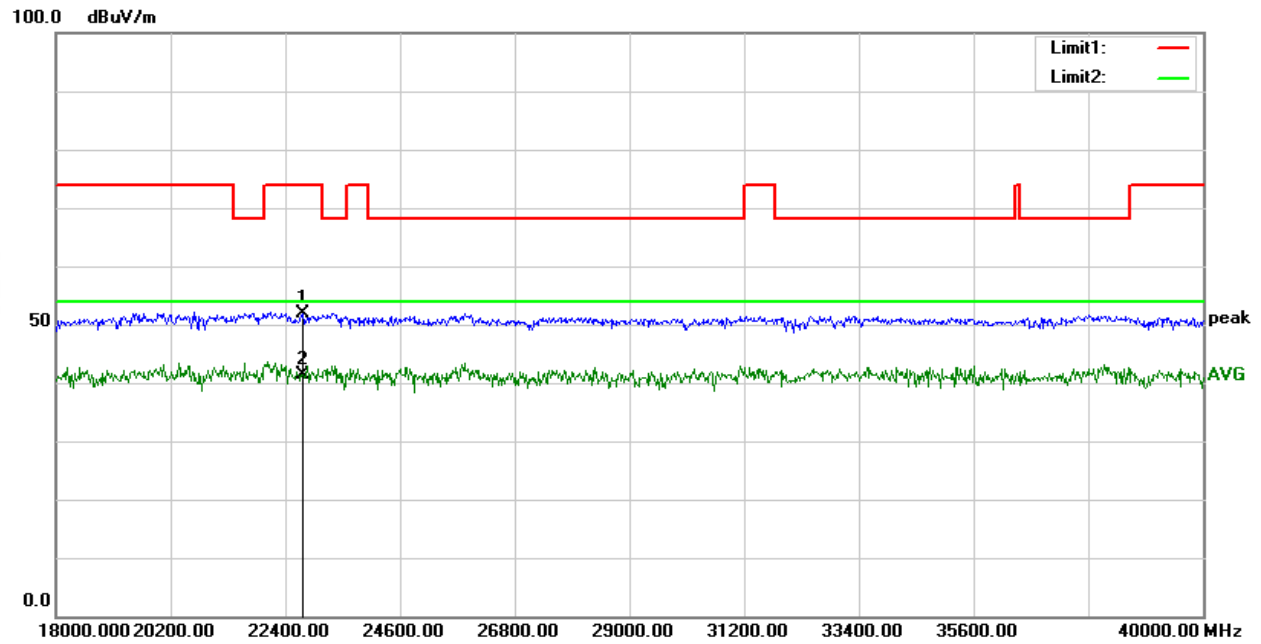
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1866.000	46.28	-0.09	68.2	-21.92	Peak	302.00	Vertical	Pass
1**	1866.000	36.15	-0.09	54.0	-17.85	AV	302.00	Vertical	Pass
2	2791.000	48.21	4.69	74.0	-25.79	Peak	91.40	Vertical	Pass
2**	2791.000	36.35	4.69	54.0	-17.65	AV	91.40	Vertical	Pass
3	6998.000	51.80	1.30	68.2	-16.40	Peak	292.50	Vertical	Pass
3**	6998.000	41.77	1.30	54.0	-12.23	AV	292.50	Vertical	Pass
4	12442.250	53.95	2.75	74.0	-20.05	Peak	155.30	Vertical	Pass
4**	12442.250	43.65	2.75	54.0	-10.35	AV	155.30	Vertical	Pass
5	13894.250	57.58	7.12	68.2	-10.62	Peak	339.50	Vertical	Pass
5**	13894.250	46.20	7.12	54.0	-7.80	AV	339.50	Vertical	Pass
6	17923.000	58.47	7.06	74.0	-15.53	Peak	350.30	Vertical	Pass
6**	17923.000	47.45	7.06	54.0	-6.55	AV	350.30	Vertical	Pass



18GHz-40GHz

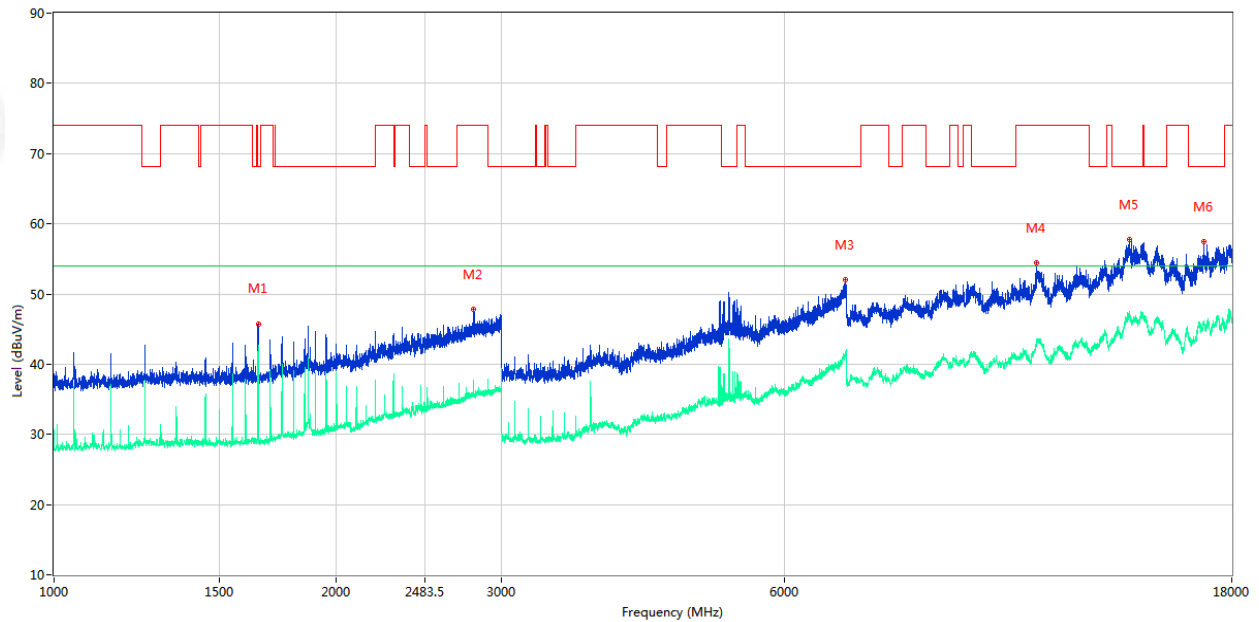


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22730.000	48.19	3.79	51.98	74.00	-22.02	peak
2	22730.000	37.71	3.79	41.50	54.00	-12.50	AVG



High Channel
Horizontal
1GHz-18GHz

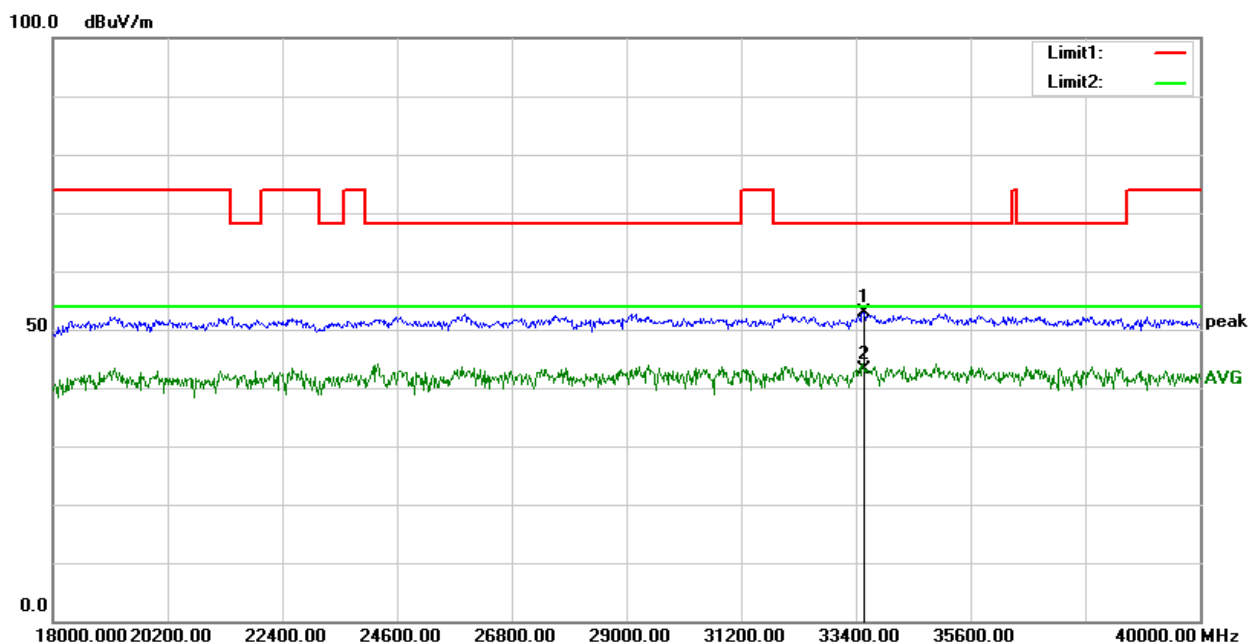
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1650.000	45.77	-0.97	68.2	-22.43	Peak	164.30	Horizontal	Pass
1**	1650.000	42.76	-0.97	54.0	-11.24	AV	164.30	Horizontal	Pass
2	2800.000	47.86	4.75	74.0	-26.14	Peak	254.70	Horizontal	Pass
2**	2800.000	37.77	4.75	54.0	-16.23	AV	254.70	Horizontal	Pass
3	6976.000	52.00	1.13	68.2	-16.20	Peak	59.70	Horizontal	Pass
3**	6976.000	41.44	1.13	54.0	-12.56	AV	59.70	Horizontal	Pass
4	11147.000	54.42	2.33	74.0	-19.58	Peak	68.30	Horizontal	Pass
4**	11147.000	43.21	2.33	54.0	-10.79	AV	68.30	Horizontal	Pass
5	13987.750	57.75	8.30	68.2	-10.45	Peak	0.00	Horizontal	Pass
5**	13987.750	46.76	8.30	54.0	-7.24	AV	0.00	Horizontal	Pass
6	16806.500	57.48	4.95	68.2	-10.72	Peak	337.70	Horizontal	Pass
6**	16806.500	46.23	4.95	54.0	-7.77	AV	337.70	Horizontal	Pass



18GHz-40GHz

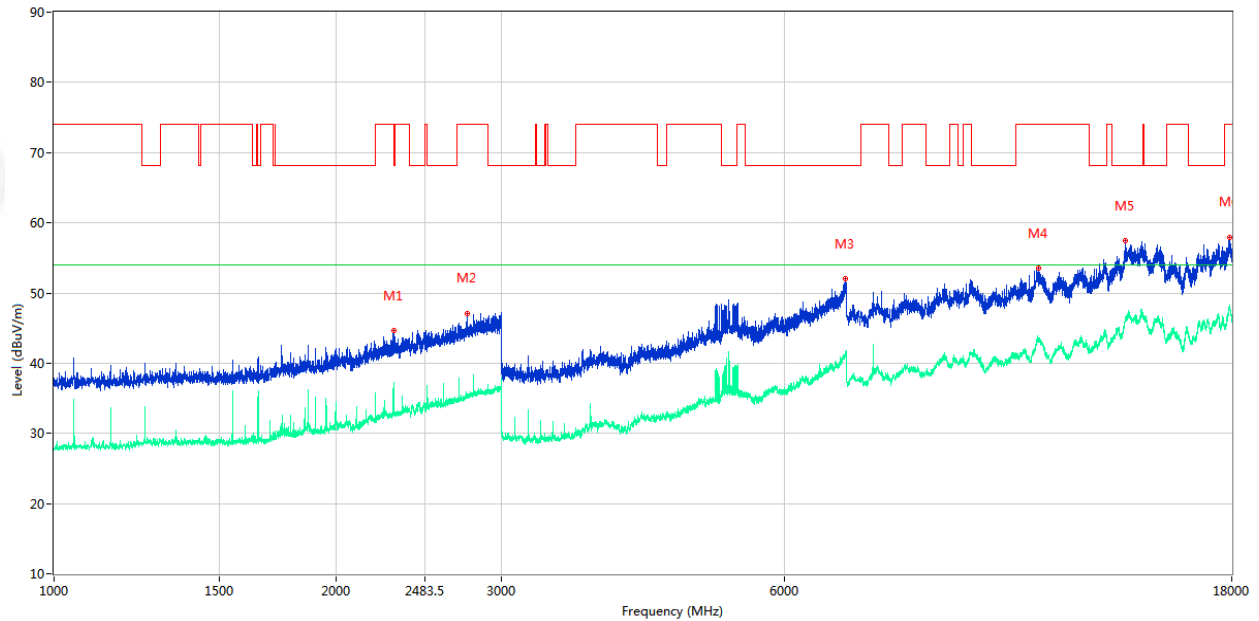


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33554.000	43.74	9.18	52.92	68.20	-15.28	peak
2	33554.000	34.05	9.18	43.23	54.00	-10.77	AVG



Vertical 1GHz-18GHz

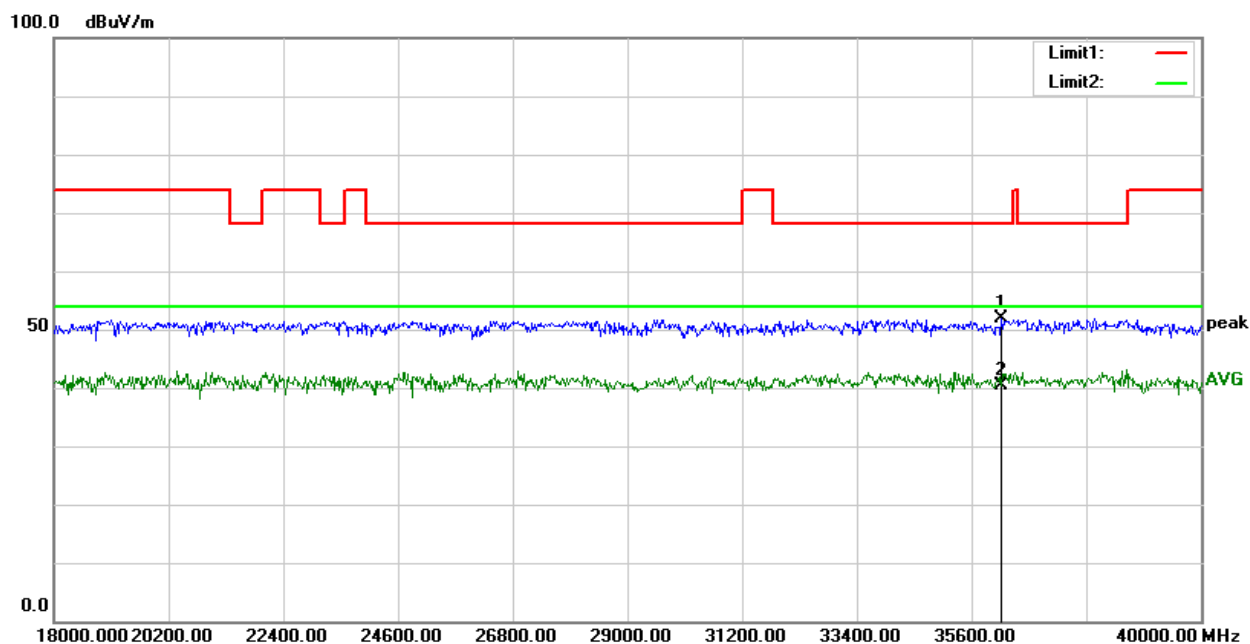
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2300.000	44.66	2.23	68.2	-23.54	Peak	48.70	Vertical	Pass
1**	2300.000	37.30	2.23	54.0	-16.70	AV	48.70	Vertical	Pass
2	2759.000	47.06	4.49	74.0	-26.94	Peak	332.40	Vertical	Pass
2**	2759.000	35.26	4.49	54.0	-18.74	AV	332.40	Vertical	Pass
3	6974.000	52.07	1.11	68.2	-16.13	Peak	230.20	Vertical	Pass
3**	6974.000	41.61	1.11	54.0	-12.39	AV	230.20	Vertical	Pass
4	11213.000	53.47	2.58	74.0	-20.53	Peak	12.60	Vertical	Pass
4**	11213.000	43.25	2.58	54.0	-10.75	AV	12.60	Vertical	Pass
5	13866.750	57.42	6.71	68.2	-10.78	Peak	101.50	Vertical	Pass
5**	13866.750	46.29	6.71	54.0	-7.71	AV	101.50	Vertical	Pass
6	17898.250	57.97	7.22	74.0	-16.03	Peak	123.40	Vertical	Pass
6**	17898.250	47.66	7.22	54.0	-6.34	AV	123.40	Vertical	Pass



18GHz-40GHz



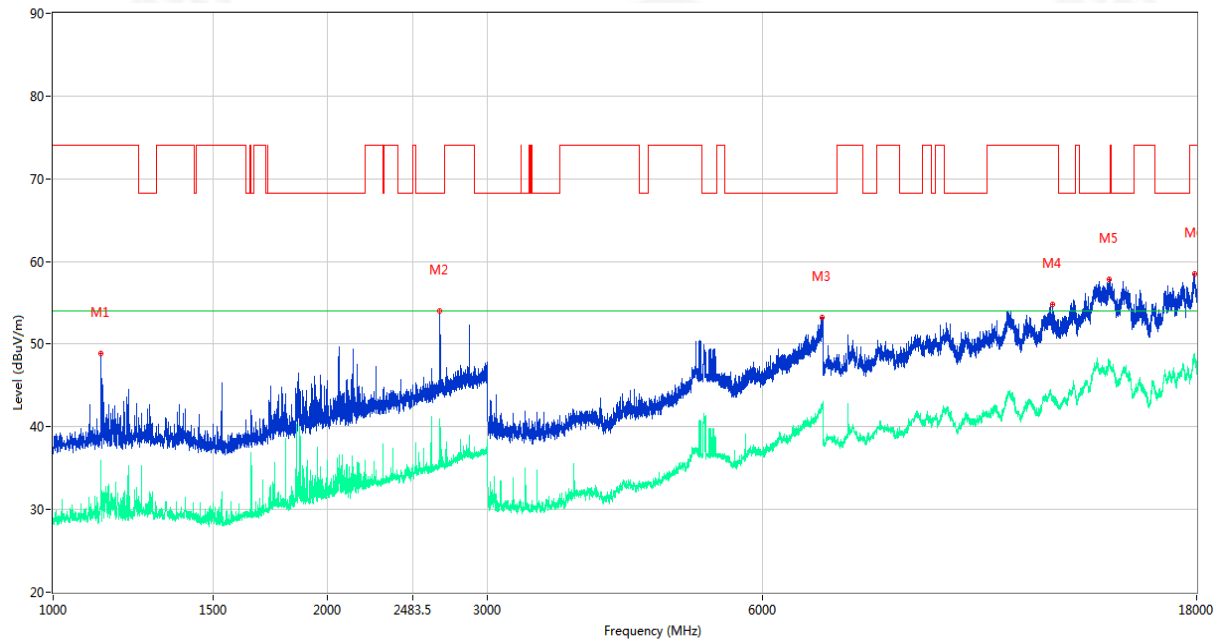
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36172.000	42.77	9.03	51.80	68.20	-16.40	peak
2	36172.000	31.44	9.03	40.47	54.00	-13.53	AVG

Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- All 20MHz Bandwidth of 5G RLAN (U-NII-1)802.11a/n20/11ac20/ax200 have been tested for above 1GHz test, only the worst case 802.11n20 MIMO was recorded



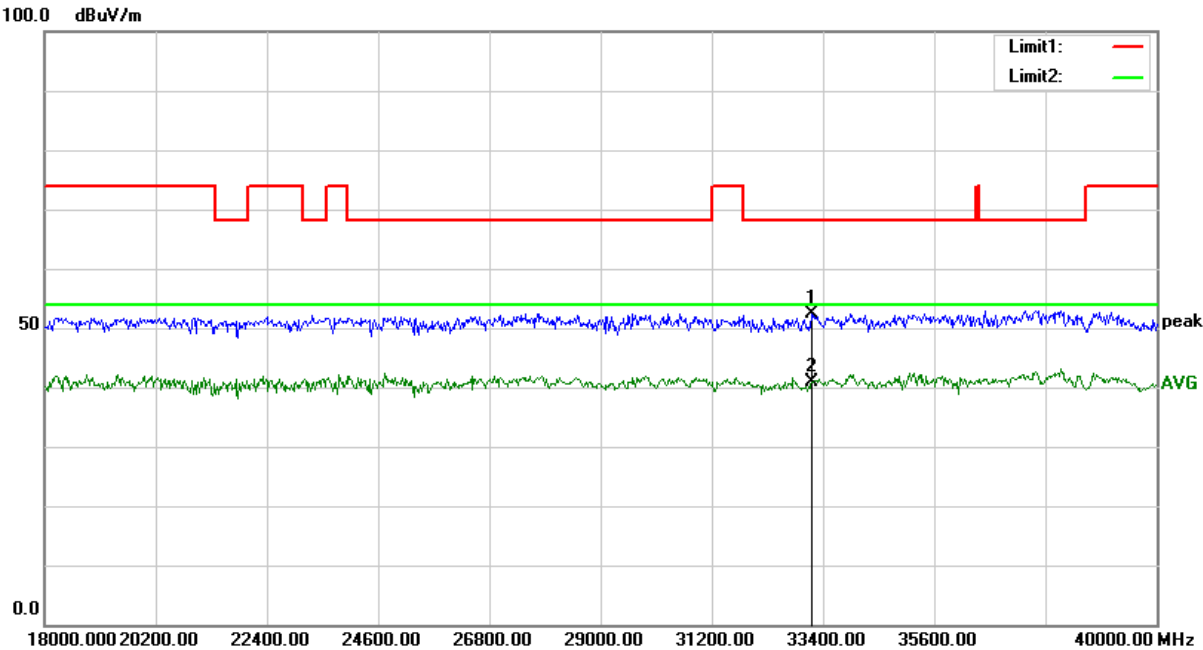
802.11ax40-MIMO
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1127.500	48.90	-1.71	74.0	-25.10	Peak	312.00	Horizontal	Pass
1**	1127.500	35.95	-1.71	54.0	-18.05	AV	312.00	Horizontal	Pass
2	2656.000	54.06	3.98	68.2	-14.14	Peak	125.60	Horizontal	Pass
2**	2656.000	40.94	3.98	54.0	-13.06	AV	125.60	Horizontal	Pass
3	6993.000	53.19	1.26	68.2	-15.01	Peak	58.80	Horizontal	Pass
3**	6993.000	42.60	1.26	54.0	-11.40	AV	58.80	Horizontal	Pass
4	12505.500	54.85	2.22	74.0	-19.15	Peak	83.20	Horizontal	Pass
4**	12505.500	43.04	2.22	54.0	-10.96	AV	83.20	Horizontal	Pass
5	14447.000	57.84	6.66	68.2	-10.36	Peak	284.40	Horizontal	Pass
5**	14447.000	47.79	6.66	54.0	-6.21	AV	284.40	Horizontal	Pass
6	17909.250	58.52	7.17	74.0	-15.48	Peak	22.20	Horizontal	Pass
6**	17909.250	48.49	7.17	54.0	-5.51	AV	22.20	Horizontal	Pass



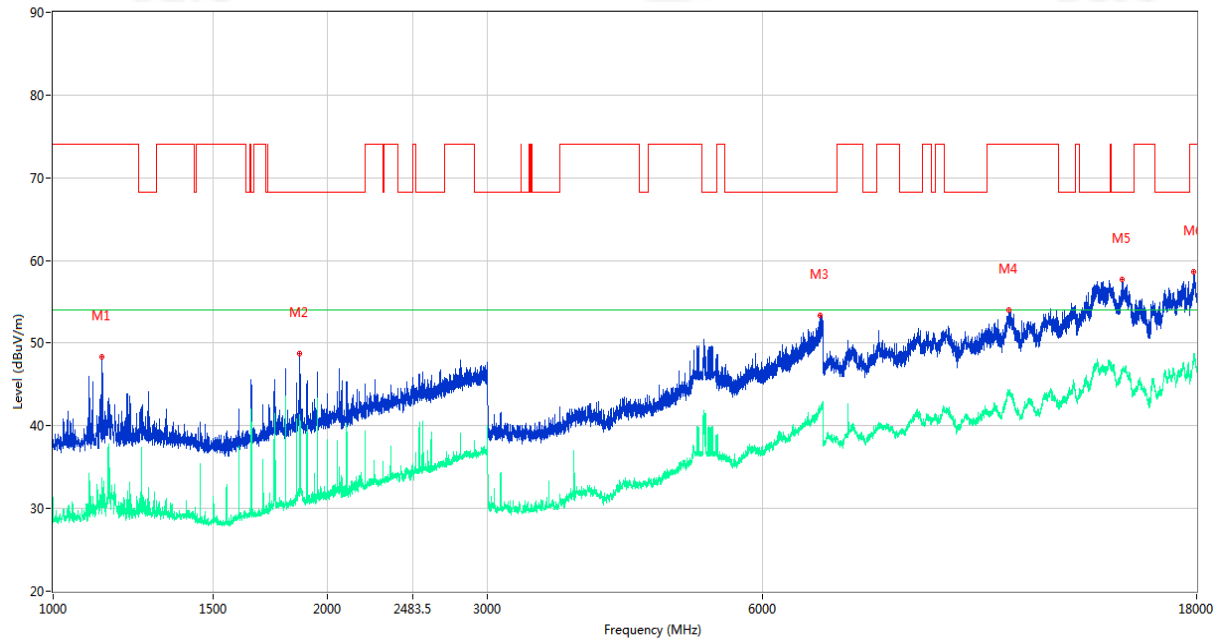
18GHz-40GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33180.000	43.42	9.07	52.49	68.20	-15.71	peak
2	33180.000	31.75	9.07	40.82	54.00	-13.18	AVG



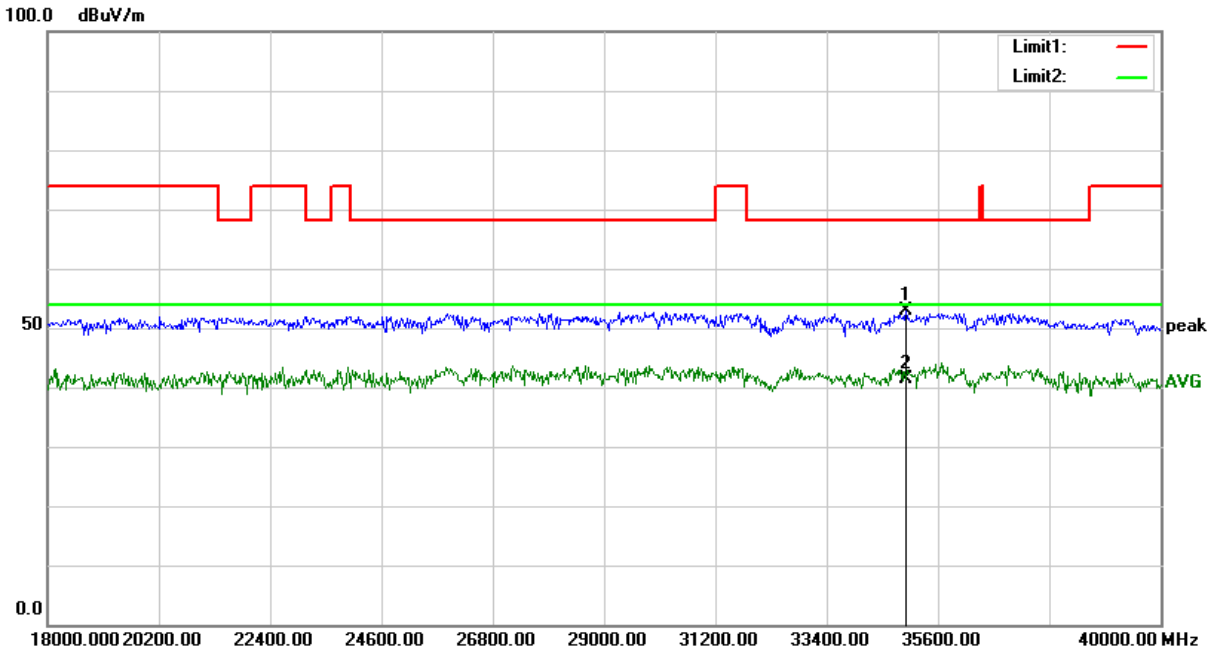
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1132.000	48.34	-1.71	74.0	-25.66	Peak	109.30	Vertical	Pass
1**	1132.000	32.72	-1.71	54.0	-21.28	AV	109.30	Vertical	Pass
2	1865.500	48.72	-0.09	68.2	-19.48	Peak	241.30	Vertical	Pass
2**	1865.500	40.08	-0.09	54.0	-13.92	AV	241.30	Vertical	Pass
3	6953.000	53.39	0.94	68.2	-14.81	Peak	190.00	Vertical	Pass
3**	6953.000	41.67	0.94	54.0	-12.33	AV	190.00	Vertical	Pass
4	11204.750	54.05	2.60	74.0	-19.95	Peak	78.50	Vertical	Pass
4**	11204.750	44.06	2.60	54.0	-9.94	AV	78.50	Vertical	Pass
5	14914.500	57.70	5.37	68.2	-10.50	Peak	3.00	Vertical	Pass
5**	14914.500	46.69	5.37	54.0	-7.31	AV	3.00	Vertical	Pass
6	17878.999	58.68	7.06	74.0	-15.32	Peak	189.70	Vertical	Pass
6**	17878.999	48.79	7.06	54.0	-5.21	AV	189.70	Vertical	Pass



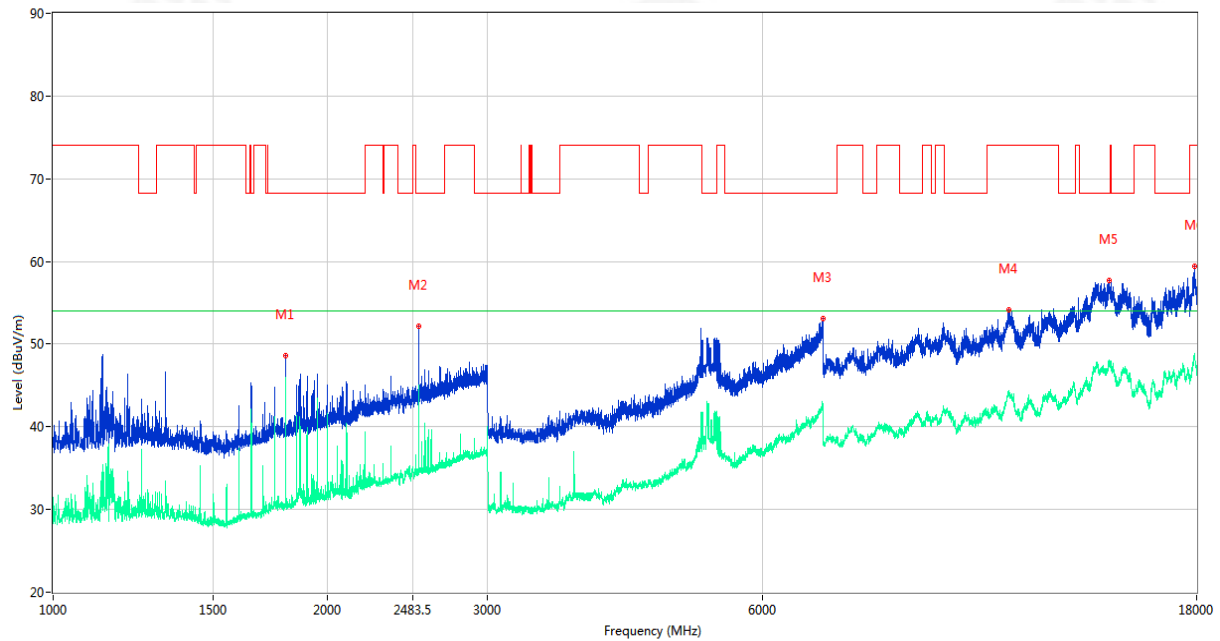
18GHz-40GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	34962.000	43.23	9.70	52.93	68.20	-15.27	peak
2	34962.000	31.74	9.70	41.44	54.00	-12.56	AVG



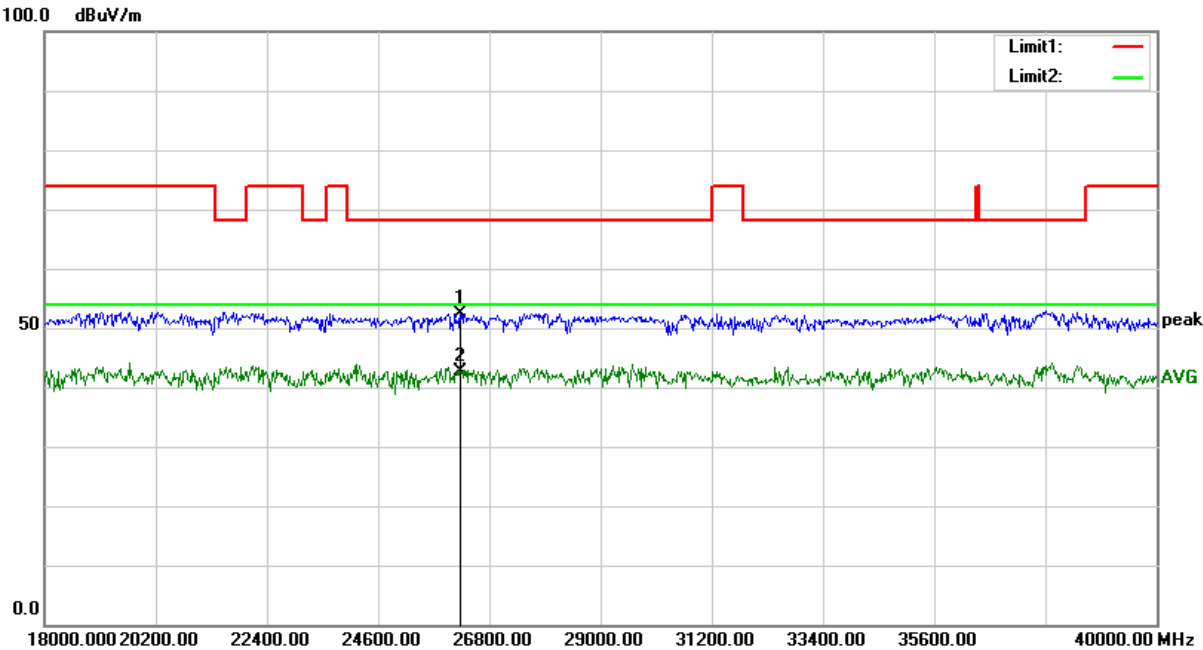
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1800.000	48.58	-0.77	68.2	-19.62	Peak	268.50	Horizontal	Pass
1**	1800.000	45.95	-0.77	54.0	-8.05	AV	268.50	Horizontal	Pass
2	2518.500	52.18	3.29	68.2	-16.02	Peak	46.70	Horizontal	Pass
2**	2518.500	45.00	3.29	54.0	-9.00	AV	46.70	Horizontal	Pass
3	7000.000	53.14	1.32	68.2	-15.06	Peak	179.10	Horizontal	Pass
3**	7000.000	42.59	1.32	54.0	-11.41	AV	179.10	Horizontal	Pass
4	11185.500	54.16	2.54	74.0	-19.84	Peak	208.60	Horizontal	Pass
4**	11185.500	44.39	2.54	54.0	-9.61	AV	208.60	Horizontal	Pass
5	14422.250	57.69	6.83	68.2	-10.51	Peak	193.70	Horizontal	Pass
5**	14422.250	47.88	6.83	54.0	-6.12	AV	193.70	Horizontal	Pass
6	17923.000	59.40	7.06	74.0	-14.60	Peak	329.10	Horizontal	Pass
6**	17923.000	48.52	7.06	54.0	-5.48	AV	329.10	Horizontal	Pass



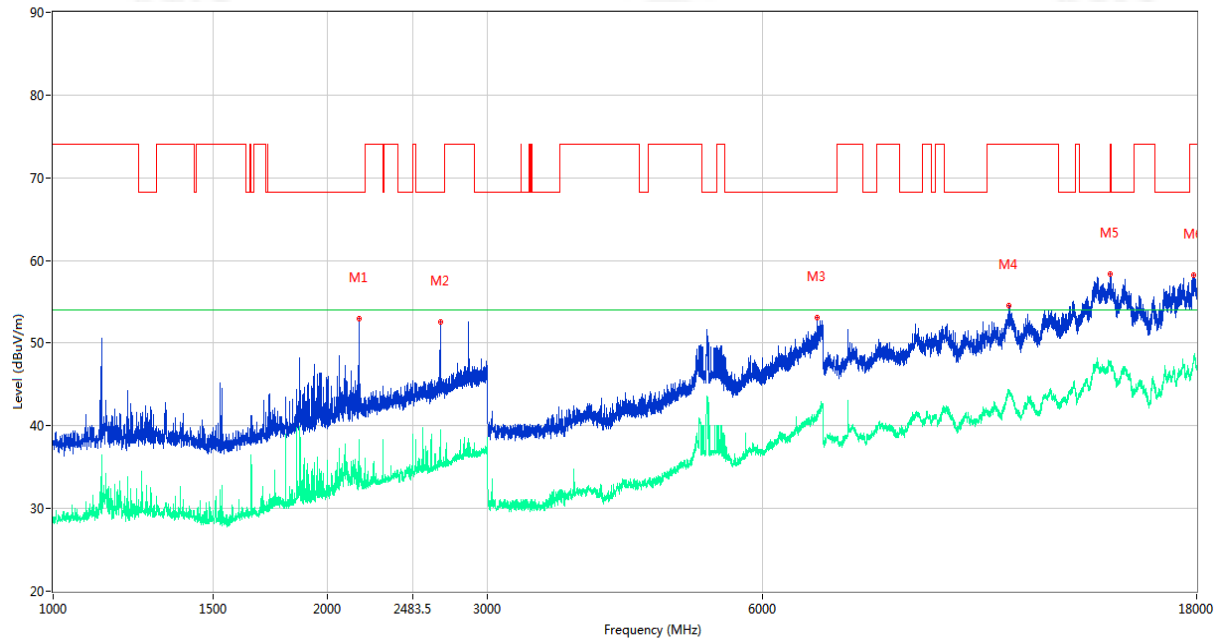
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26228.000	46.57	5.92	52.49	68.20	-15.71	peak
2	26228.000	36.65	5.92	42.57	54.00	-11.43	AVG



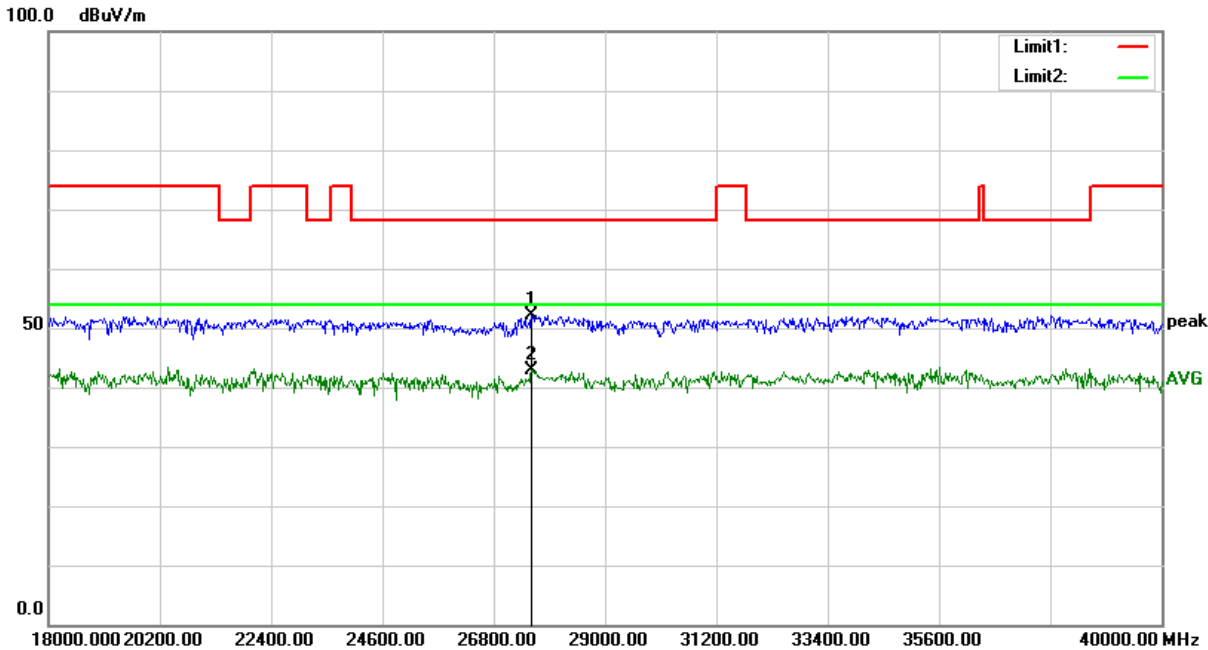
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2164.500	52.92	1.76	68.2	-15.28	Peak	192.60	Vertical	Pass
1**	2164.500	38.32	1.76	54.0	-15.68	AV	192.60	Vertical	Pass
2	2659.500	52.55	3.98	68.2	-15.65	Peak	153.20	Vertical	Pass
2**	2659.500	39.51	3.98	54.0	-14.49	AV	153.20	Vertical	Pass
3	6904.000	53.13	0.54	68.2	-15.07	Peak	171.70	Vertical	Pass
3**	6904.000	41.41	0.54	54.0	-12.59	AV	171.70	Vertical	Pass
4	11196.500	54.55	2.60	74.0	-19.45	Peak	330.00	Vertical	Pass
4**	11196.500	43.86	2.60	54.0	-10.14	AV	330.00	Vertical	Pass
5	14466.250	58.34	6.52	68.2	-9.86	Peak	325.90	Vertical	Pass
5**	14466.250	47.75	6.52	54.0	-6.25	AV	325.90	Vertical	Pass
6	17878.999	58.28	7.06	74.0	-15.72	Peak	156.30	Vertical	Pass
6**	17878.999	48.38	7.06	54.0	-5.62	AV	156.30	Vertical	Pass



18GHz-40GHz

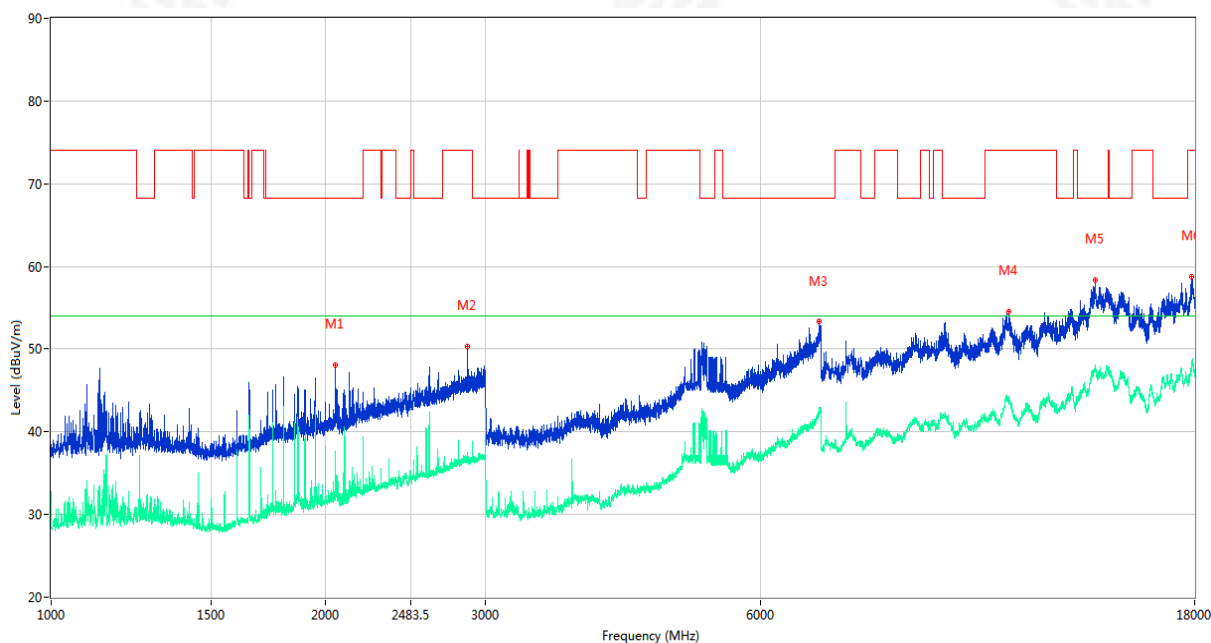


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	27548.000	45.27	6.94	52.21	68.20	-15.99	peak
2	27548.000	36.02	6.94	42.96	54.00	-11.04	AVG

- Note:
- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
 - The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
 - All 40MHz Bandwidth of 5G RLAN (U-NII-1)802.11n40/ac40/ax40 have been tested for above 1GHz test, only the worst case 802.11ax40 MIMO was recorded



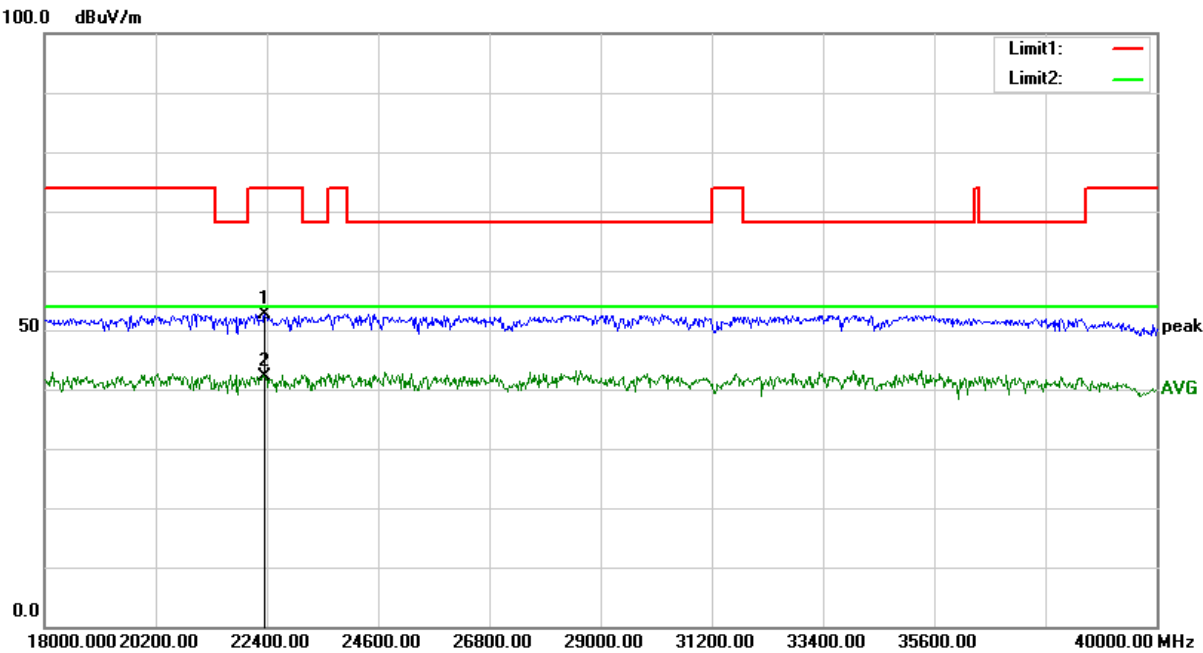
802.11 ax80
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2049.500	48.11	0.81	68.2	-20.09	Peak	116.70	Horizontal	Pass
1**	2049.500	36.19	0.81	54.0	-17.81	AV	116.70	Horizontal	Pass
2	2861.000	50.37	4.97	74.0	-23.63	Peak	144.20	Horizontal	Pass
2**	2861.000	37.54	4.97	54.0	-16.46	AV	144.20	Horizontal	Pass
3	6967.000	53.29	1.05	68.2	-14.91	Peak	3.20	Horizontal	Pass
3**	6967.000	42.05	1.05	54.0	-11.95	AV	3.20	Horizontal	Pass
4	11262.500	54.58	2.41	74.0	-19.42	Peak	360.50	Horizontal	Pass
4**	11262.500	43.84	2.41	54.0	-10.16	AV	360.50	Horizontal	Pass
5	13998.750	58.32	8.43	68.2	-9.88	Peak	104.00	Horizontal	Pass
5**	13998.750	47.99	8.43	54.0	-6.01	AV	104.00	Horizontal	Pass
6	17881.750	58.75	7.08	74.0	-15.25	Peak	57.80	Horizontal	Pass
6**	17881.750	48.30	7.08	54.0	-5.70	AV	57.80	Horizontal	Pass



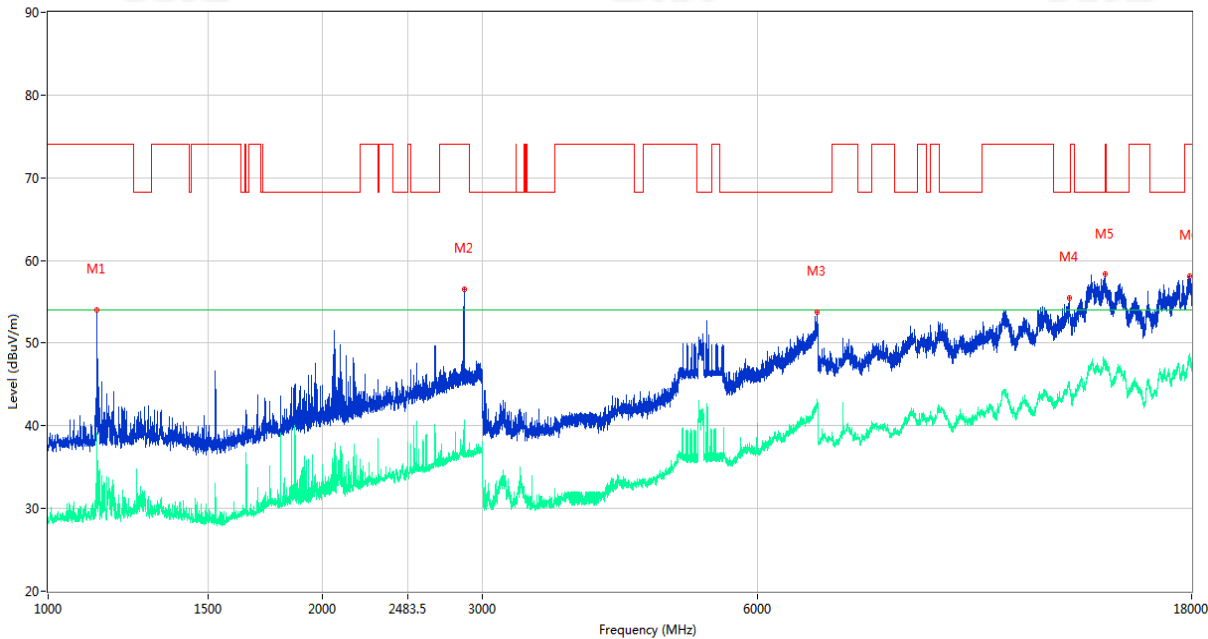
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22356.000	48.93	3.77	52.70	74.00	-21.30	peak
2	22356.000	38.42	3.77	42.19	54.00	-11.81	AVG



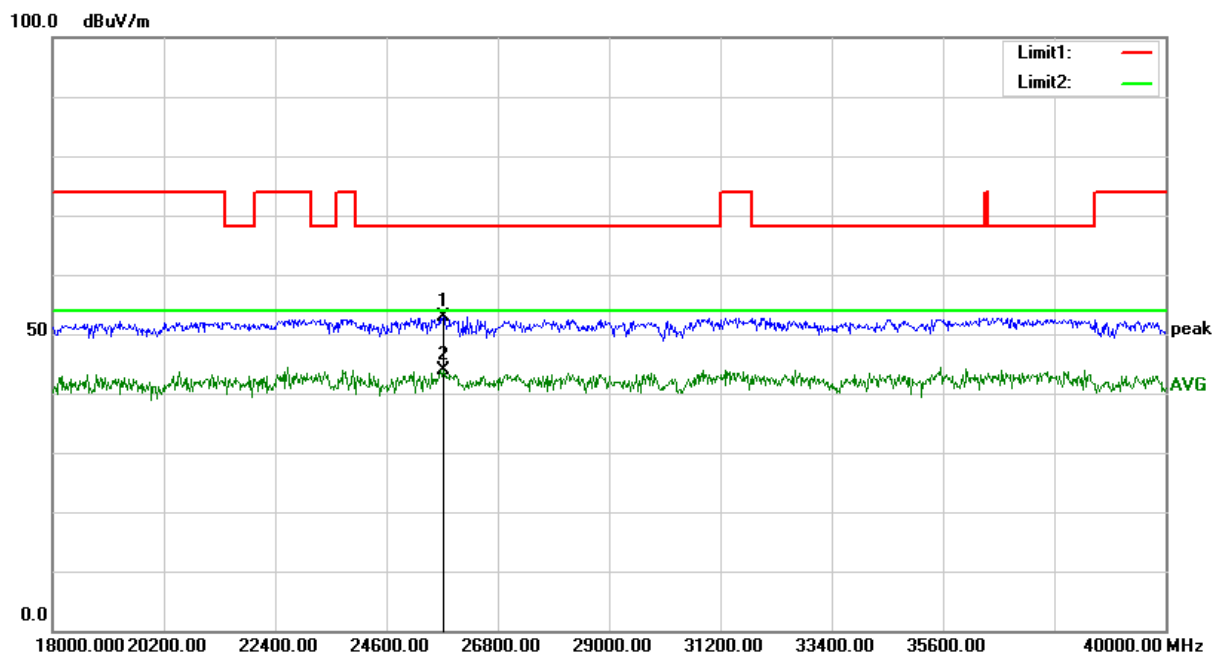
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.000	53.96	-1.71	74.0	-20.04	Peak	188.50	Vertical	Pass
1**	1131.000	39.12	-1.71	54.0	-14.88	AV	188.50	Vertical	Pass
2	2865.500	56.48	4.97	74.0	-17.52	Peak	143.00	Vertical	Pass
2**	2865.500	40.75	4.97	54.0	-13.25	AV	143.00	Vertical	Pass
3	6991.000	53.80	1.25	68.2	-14.40	Peak	281.20	Vertical	Pass
3**	6991.000	42.46	1.25	54.0	-11.54	AV	281.20	Vertical	Pass
4	13204.000	55.41	5.36	68.2	-12.79	Peak	118.50	Vertical	Pass
4**	13204.000	45.19	5.36	54.0	-8.81	AV	118.50	Vertical	Pass
5	14482.750	58.30	6.40	74.0	-15.70	Peak	217.50	Vertical	Pass
5**	14482.750	47.29	6.40	54.0	-6.71	AV	217.50	Vertical	Pass
6	17898.250	58.13	7.22	74.0	-15.87	Peak	293.40	Vertical	Pass
6**	17898.250	48.37	7.22	54.0	-5.63	AV	293.40	Vertical	Pass



18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	25722.000	47.24	5.73	52.97	68.20	-15.23	peak
2	25722.000	38.08	5.73	43.81	54.00	-10.19	AVG

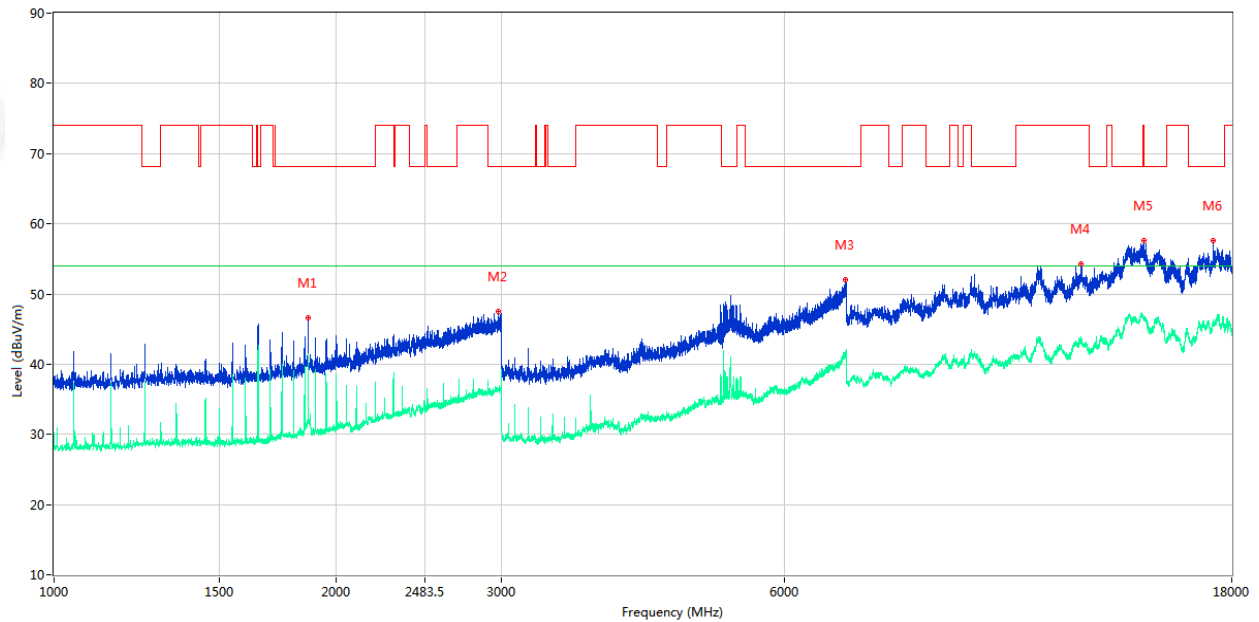
Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- All 80MHz Bandwidth of 5G RLAN (U-NII-1)802.11ac80/ax80 have been tested for above 1GHz test, only the worst case 802.11ax80 MIMO was recorded



U-NII-2A
802.11ax20-MIMO
Low Channel
Horizontal

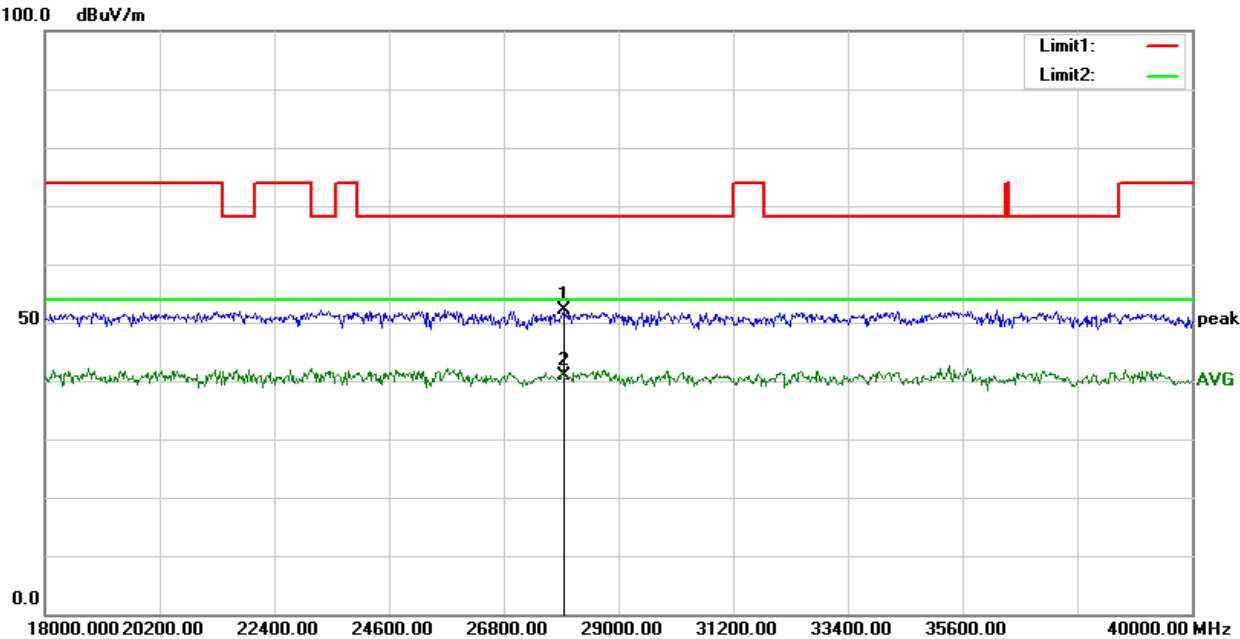
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1866.500	46.56	-0.09	68.2	-21.64	Peak	176.20	Horizontal	Pass
1**	1866.500	39.19	-0.09	54.0	-14.81	AV	176.20	Horizontal	Pass
2	2975.500	47.52	5.34	68.2	-20.68	Peak	159.10	Horizontal	Pass
2**	2975.500	36.59	5.34	54.0	-17.41	AV	159.10	Horizontal	Pass
3	6971.000	52.06	1.09	68.2	-16.14	Peak	130.80	Horizontal	Pass
3**	6971.000	41.24	1.09	54.0	-12.76	AV	130.80	Horizontal	Pass
4	12428.500	54.23	2.89	74.0	-19.77	Peak	252.40	Horizontal	Pass
4**	12428.500	43.37	2.89	54.0	-10.63	AV	252.40	Horizontal	Pass
5	14526.750	57.55	6.29	68.2	-10.65	Peak	74.50	Horizontal	Pass
5**	14526.750	46.34	6.29	54.0	-7.66	AV	74.50	Horizontal	Pass
6	17188.749	57.58	5.57	68.2	-10.62	Peak	333.20	Horizontal	Pass
6**	17188.749	45.62	5.57	54.0	-8.38	AV	333.20	Horizontal	Pass



18GHz-40GHz

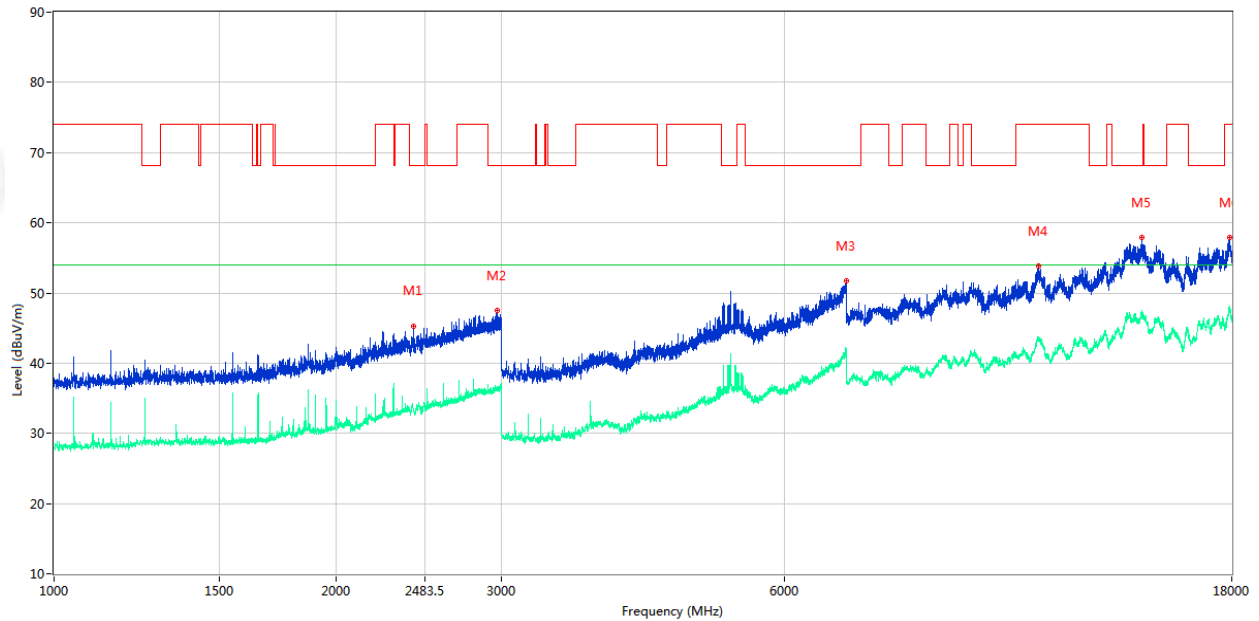


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27966.000	44.89	7.32	52.21	68.20	-15.99	peak
2	27966.000	33.44	7.32	40.76	54.00	-13.24	AVG



Vertical 1GHz-18GHz

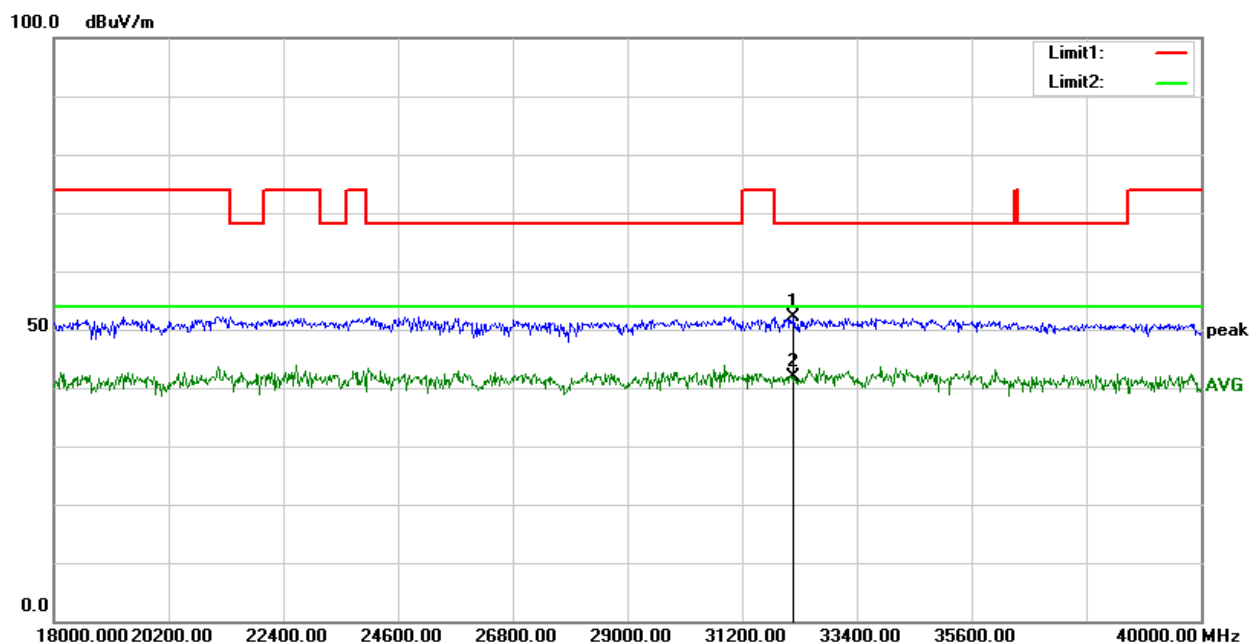
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2416.000	45.24	3.12	68.2	-22.96	Peak	110.00	Vertical	Pass
1**	2416.000	33.14	3.12	54.0	-20.86	AV	110.00	Vertical	Pass
2	2965.500	47.49	5.29	68.2	-20.71	Peak	107.80	Vertical	Pass
2**	2965.500	36.12	5.29	54.0	-17.88	AV	107.80	Vertical	Pass
3	6994.000	51.77	1.27	68.2	-16.43	Peak	323.60	Vertical	Pass
3**	6994.000	41.53	1.27	54.0	-12.47	AV	323.60	Vertical	Pass
4	11199.250	53.78	2.62	74.0	-20.22	Peak	13.80	Vertical	Pass
4**	11199.250	43.51	2.62	54.0	-10.49	AV	13.80	Vertical	Pass
5	14427.750	57.95	6.79	68.2	-10.25	Peak	268.70	Vertical	Pass
5**	14427.750	47.04	6.79	54.0	-6.96	AV	268.70	Vertical	Pass
6	17906.500	57.91	7.19	74.0	-16.09	Peak	0.10	Vertical	Pass
6**	17906.500	48.13	7.19	54.0	-5.87	AV	0.10	Vertical	Pass



18GHz-40GHz

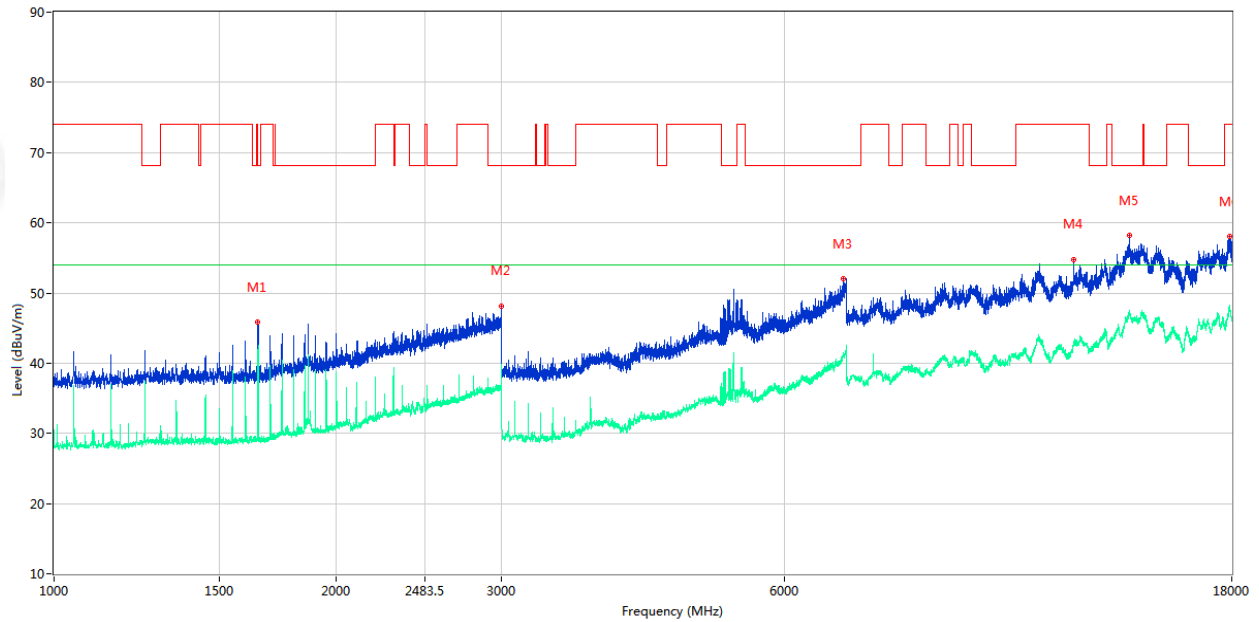


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32190.000	43.04	9.21	52.25	68.20	-15.95	peak
2	32190.000	32.60	9.21	41.81	54.00	-12.19	AVG



Mid Channel
Horizontal
1GHz-18GHz

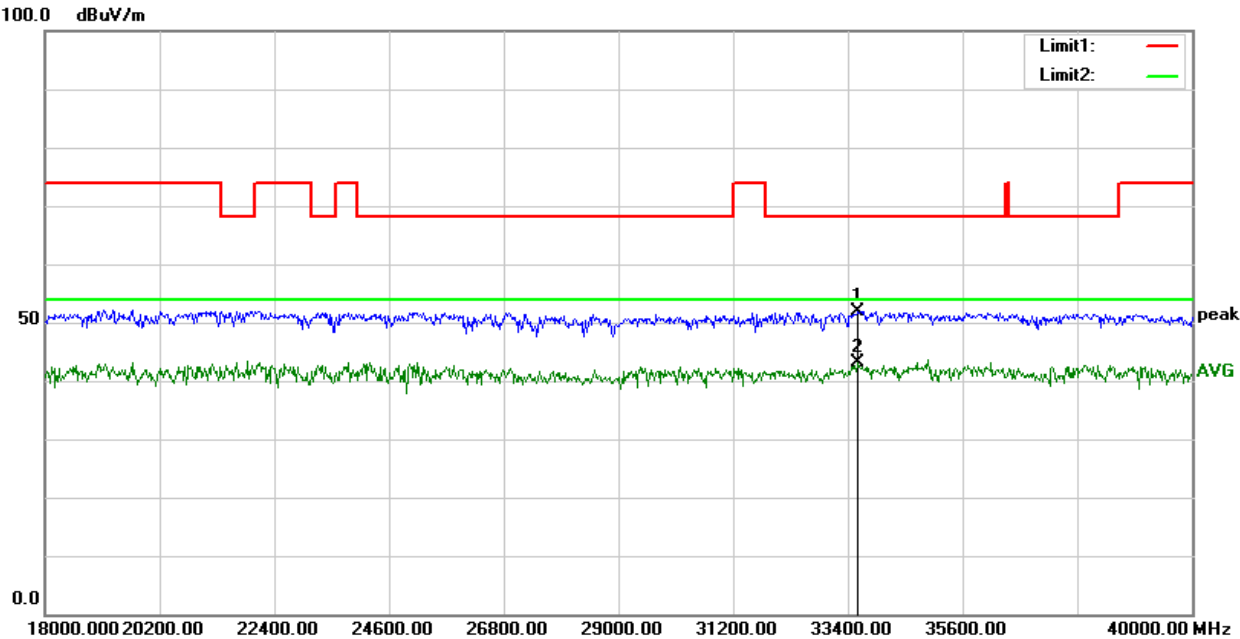
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1649.500	45.84	-0.96	68.2	-22.36	Peak	169.80	Horizontal	Pass
1**	1649.500	41.28	-0.96	54.0	-12.72	AV	169.80	Horizontal	Pass
2	3000.000	48.18	5.46	68.2	-20.02	Peak	242.00	Horizontal	Pass
2**	3000.000	39.87	5.46	54.0	-14.13	AV	242.00	Horizontal	Pass
3	6947.000	52.01	0.89	68.2	-16.19	Peak	112.90	Horizontal	Pass
3**	6947.000	41.10	0.89	54.0	-12.90	AV	112.90	Horizontal	Pass
4	12214.000	54.80	2.79	74.0	-19.20	Peak	301.60	Horizontal	Pass
4**	12214.000	42.57	2.79	54.0	-11.43	AV	301.60	Horizontal	Pass
5	14001.500	58.22	8.43	68.2	-9.98	Peak	270.30	Horizontal	Pass
5**	14001.500	47.23	8.43	54.0	-6.77	AV	270.30	Horizontal	Pass
6	17906.500	58.03	7.19	74.0	-15.97	Peak	4.40	Horizontal	Pass
6**	17906.500	47.97	7.19	54.0	-6.03	AV	4.40	Horizontal	Pass



18GHz-40GHz

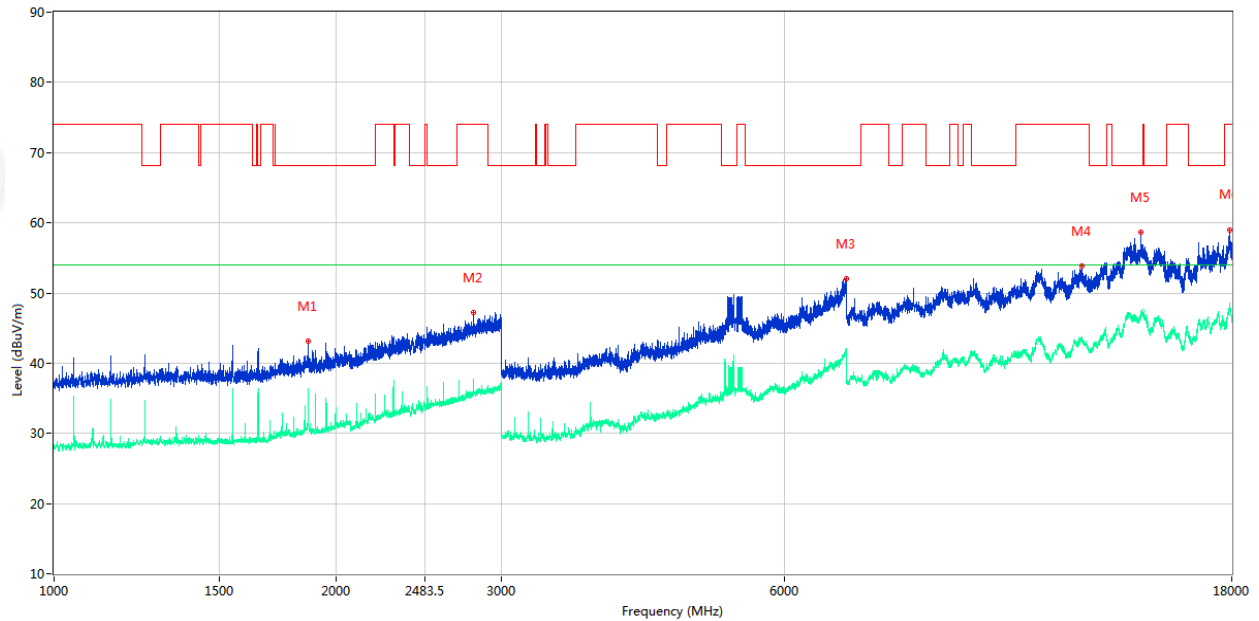


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33598.000	42.78	9.21	51.99	68.20	-16.21	peak
2	33598.000	33.91	9.21	43.12	54.00	-10.88	AVG



Vertical 1GHz-18GHz

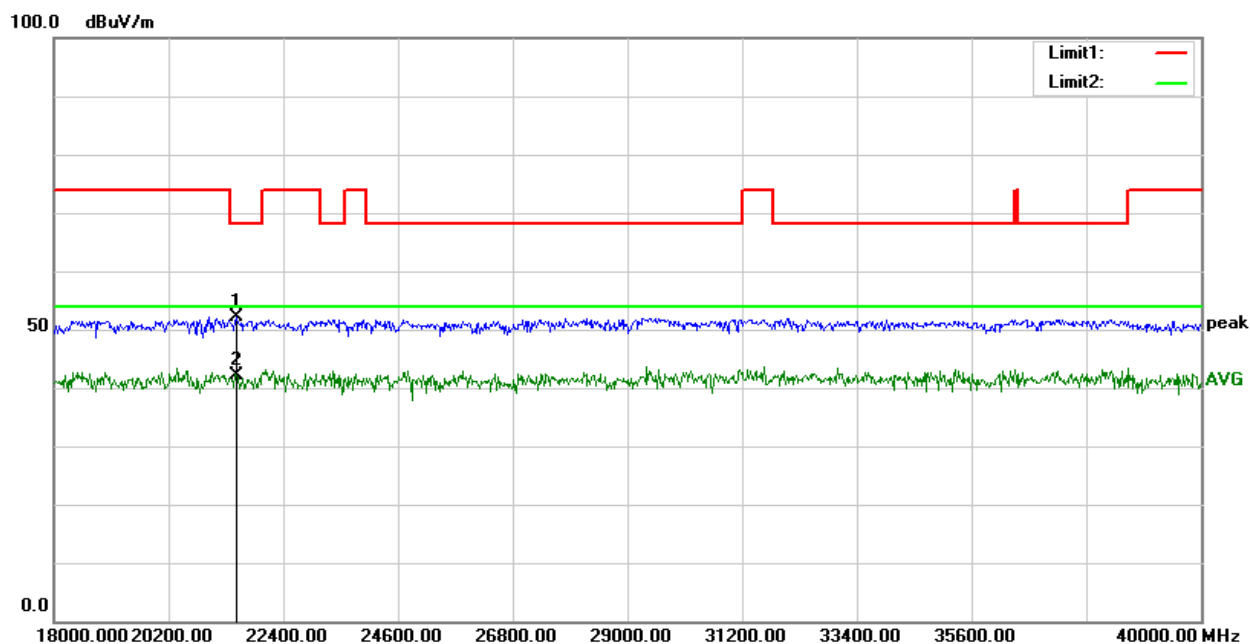
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1866.500	43.08	-0.09	68.2	-25.12	Peak	302.50	Vertical	Pass
1**	1866.500	34.98	-0.09	54.0	-19.02	AV	302.50	Vertical	Pass
2	2800.000	47.25	4.75	74.0	-26.75	Peak	281.30	Vertical	Pass
2**	2800.000	37.56	4.75	54.0	-16.44	AV	281.30	Vertical	Pass
3	6997.000	52.00	1.30	68.2	-16.20	Peak	4.50	Vertical	Pass
3**	6997.000	41.83	1.30	54.0	-12.17	AV	4.50	Vertical	Pass
4	12461.500	53.86	2.56	74.0	-20.14	Peak	169.90	Vertical	Pass
4**	12461.500	43.43	2.56	54.0	-10.57	AV	169.90	Vertical	Pass
5	14397.500	58.68	6.99	68.2	-9.52	Peak	84.00	Vertical	Pass
5**	14397.500	46.97	6.99	54.0	-7.03	AV	84.00	Vertical	Pass
6	17909.250	59.02	7.17	74.0	-14.98	Peak	203.70	Vertical	Pass
6**	17909.250	47.74	7.17	54.0	-6.26	AV	203.70	Vertical	Pass



18GHz-40GHz

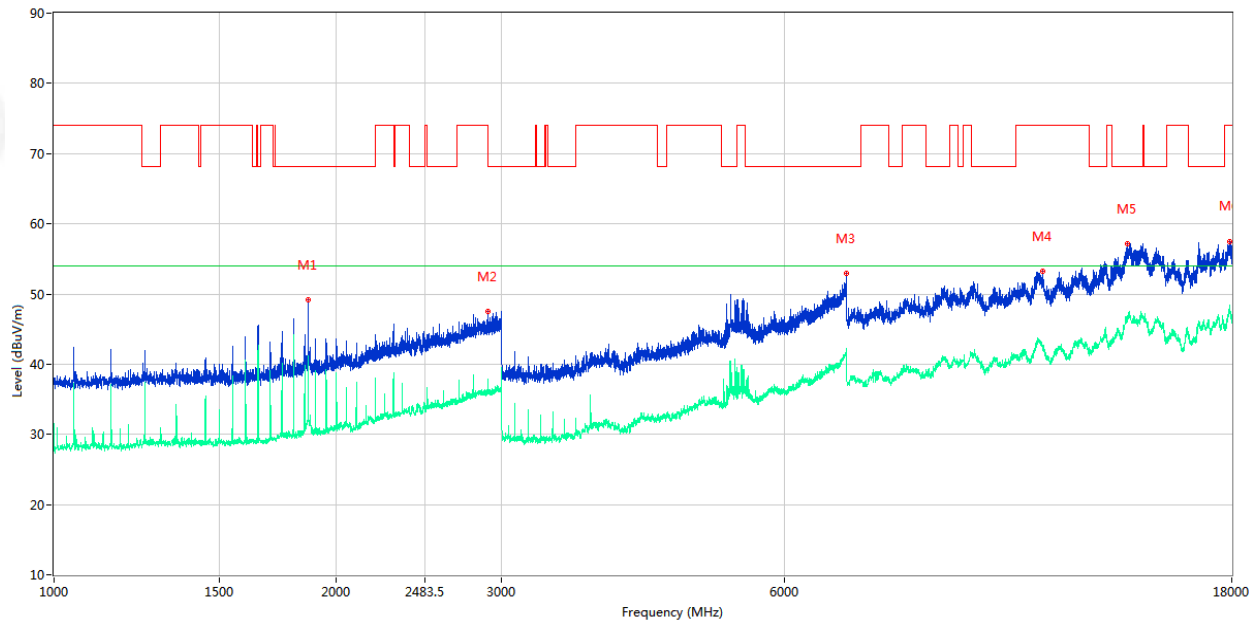


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21498.000	49.29	2.94	52.23	68.20	-15.97	peak
2	21498.000	39.23	2.94	42.17	54.00	-11.83	AVG



High Channel Horizontal 1GHz-18GHz

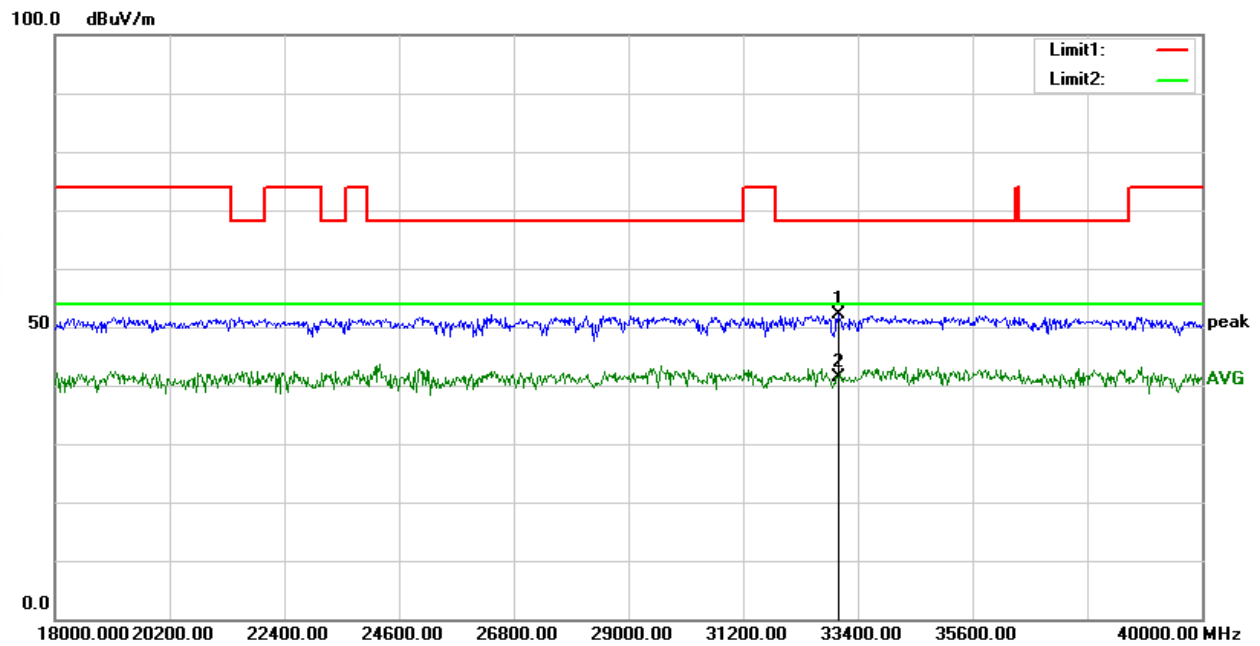
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1865.000	49.18	-0.09	68.2	-19.02	Peak	216.80	Horizontal	Pass
1**	1865.000	36.52	-0.09	54.0	-17.48	AV	216.80	Horizontal	Pass
2	2900.000	47.51	4.90	68.2	-20.69	Peak	145.40	Horizontal	Pass
2**	2900.000	37.87	4.90	54.0	-16.13	AV	145.40	Horizontal	Pass
3	6989.000	52.90	1.23	68.2	-15.30	Peak	12.90	Horizontal	Pass
3**	6989.000	41.88	1.23	54.0	-12.12	AV	12.90	Horizontal	Pass
4	11306.500	53.19	2.26	74.0	-20.81	Peak	359.40	Horizontal	Pass
4**	11306.500	42.62	2.26	54.0	-11.38	AV	359.40	Horizontal	Pass
5	13938.250	57.17	7.68	68.2	-11.03	Peak	96.90	Horizontal	Pass
5**	13938.250	46.43	7.68	54.0	-7.57	AV	96.90	Horizontal	Pass
6	17892.749	57.38	7.18	74.0	-16.62	Peak	219.60	Horizontal	Pass
6**	17892.749	48.21	7.18	54.0	-5.79	AV	219.60	Horizontal	Pass



18GHz-40GHz

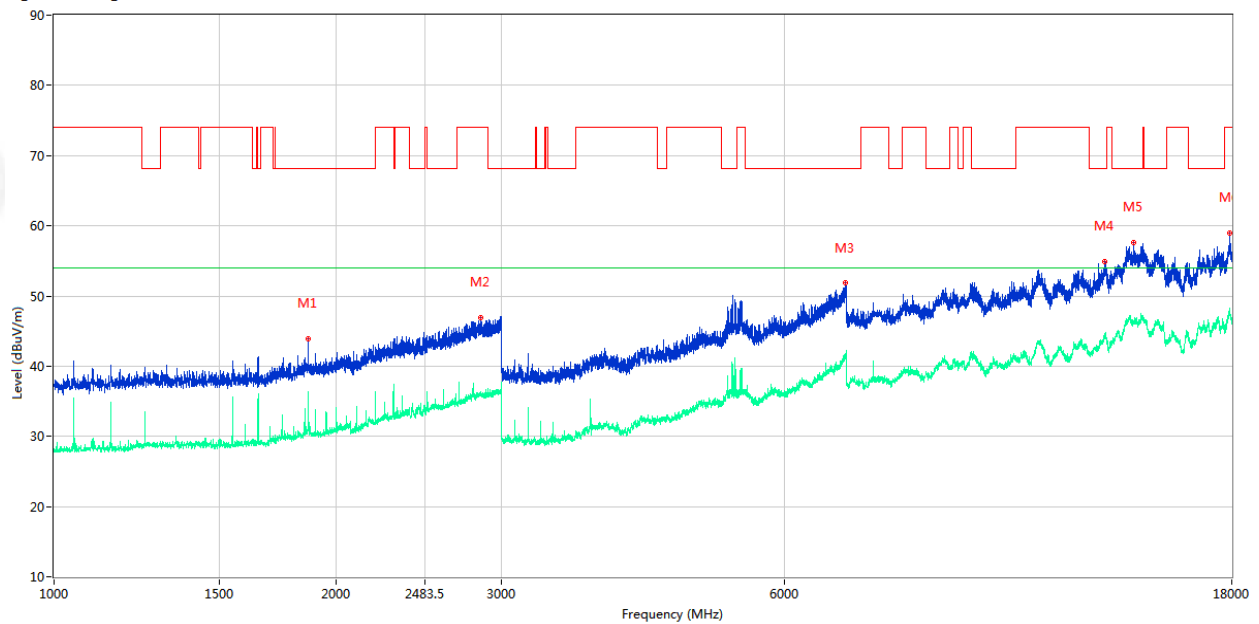


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33026.000	43.04	9.03	52.07	68.20	-16.13	peak
2	33026.000	32.25	9.03	41.28	54.00	-12.72	AVG



Vertical
1GHz-18GHz

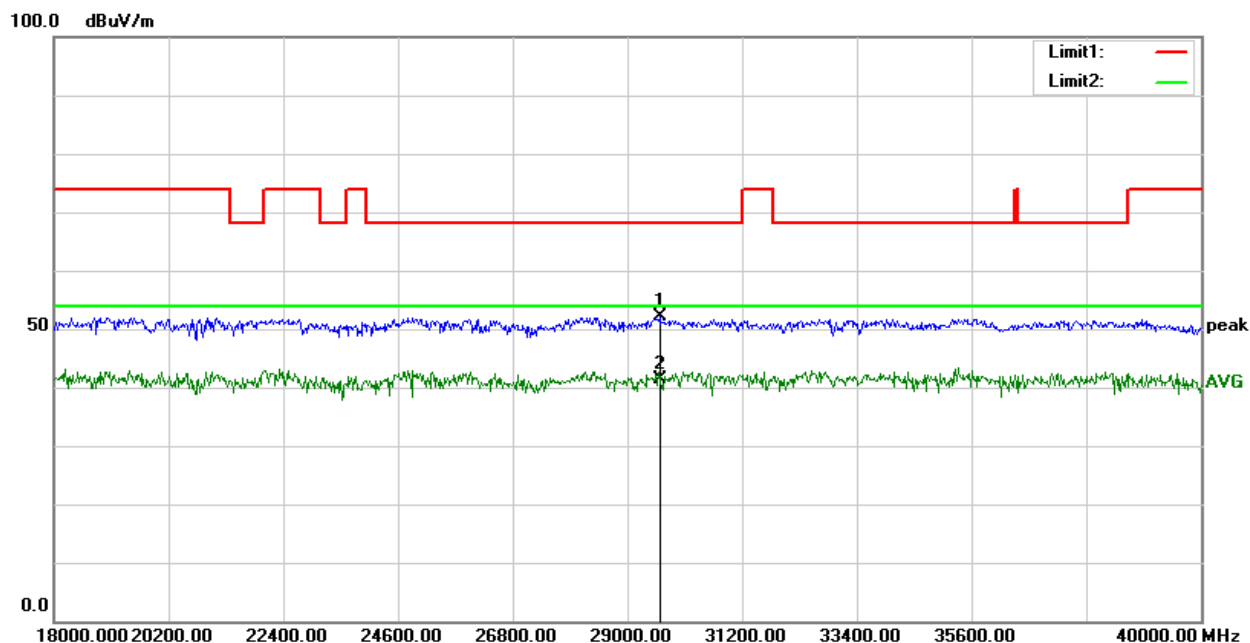
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1865.500	43.96	-0.09	68.2	-24.24	Peak	309.40	Vertical	Pass
1**	1865.500	36.03	-0.09	54.0	-17.97	AV	309.40	Vertical	Pass
2	2847.500	46.97	4.98	74.0	-27.03	Peak	359.10	Vertical	Pass
2**	2847.500	36.23	4.98	54.0	-17.77	AV	359.10	Vertical	Pass
3	6982.000	51.87	1.17	68.2	-16.33	Peak	164.20	Vertical	Pass
3**	6982.000	41.58	1.17	54.0	-12.42	AV	164.20	Vertical	Pass
4	13184.750	54.96	5.29	68.2	-13.24	Peak	157.60	Vertical	Pass
4**	13184.750	44.48	5.29	54.0	-9.52	AV	157.60	Vertical	Pass
5	14152.750	57.68	6.91	68.2	-10.52	Peak	345.80	Vertical	Pass
5**	14152.750	46.37	6.91	54.0	-7.63	AV	345.80	Vertical	Pass
6	17901.001	59.04	7.23	74.0	-14.96	Peak	111.40	Vertical	Pass
6**	17901.001	48.25	7.23	54.0	-5.75	AV	111.40	Vertical	Pass



18GHz-40GHz



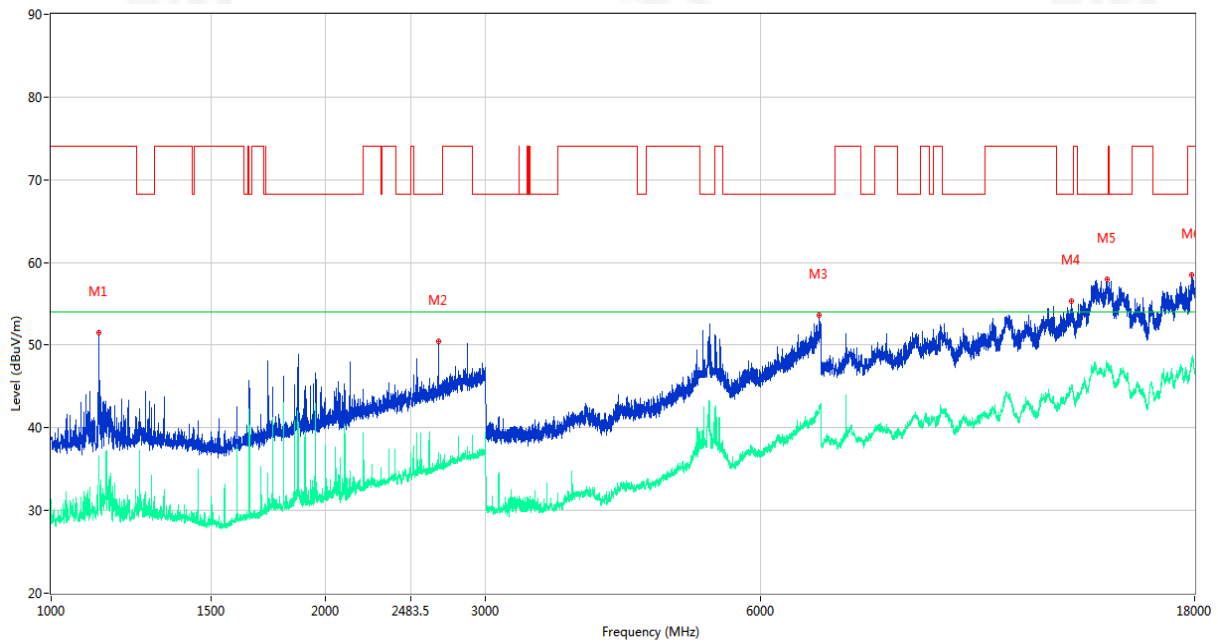
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	29616.000	42.99	9.11	52.10	68.20	-16.10	peak
2	29616.000	32.31	9.11	41.42	54.00	-12.58	AVG

Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- All 20MHz Bandwidth of 5G RLAN (U-NII-2A)802.11a/n20/11ac20/ax20 have been tested for above 1GHz test, only the worst case 802.11ax20 MIMO was recorded



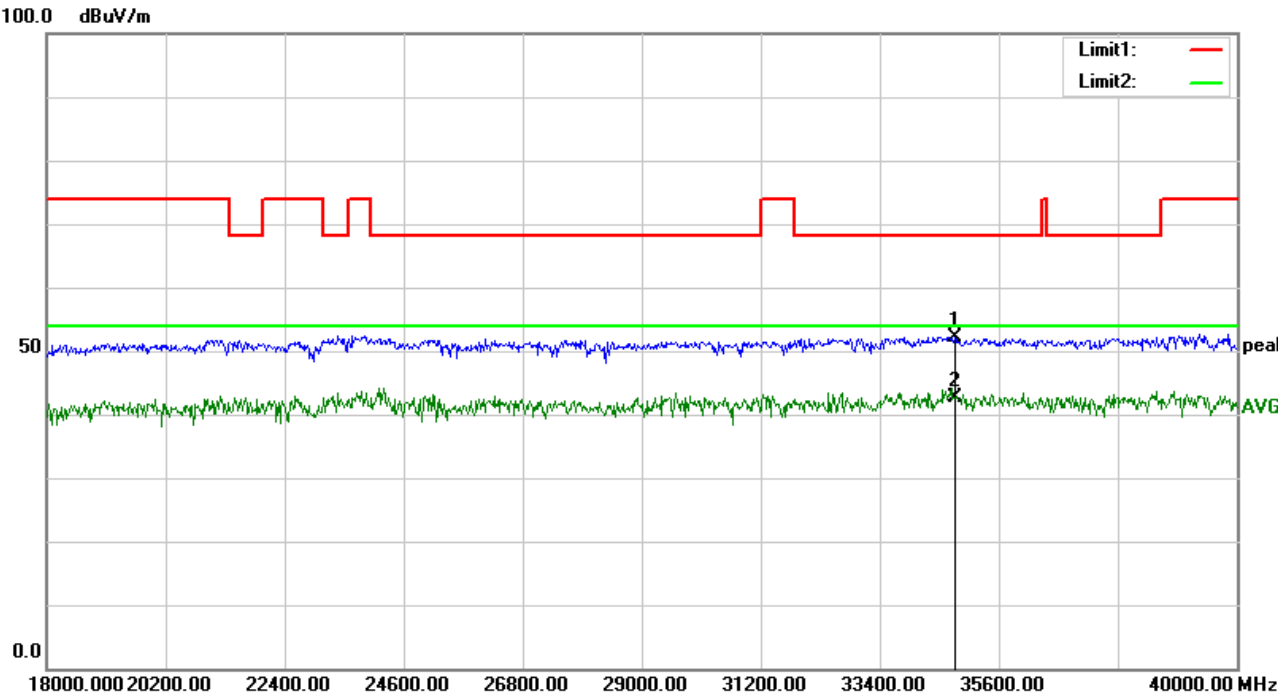
802.11ax40-MIMO
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1127.500	51.56	-1.71	74.0	-22.44	Peak	121.80	Horizontal	Pass
1**	1127.500	36.56	-1.71	54.0	-17.44	AV	121.80	Horizontal	Pass
2	2660.000	50.42	3.98	68.2	-17.78	Peak	130.40	Horizontal	Pass
2**	2660.000	36.99	3.98	54.0	-17.01	AV	130.40	Horizontal	Pass
3	6972.000	53.65	1.09	68.2	-14.55	Peak	18.30	Horizontal	Pass
3**	6972.000	42.15	1.09	54.0	-11.85	AV	18.30	Horizontal	Pass
4	13195.750	55.30	5.40	68.2	-12.90	Peak	0.00	Horizontal	Pass
4**	13195.750	45.05	5.40	54.0	-8.95	AV	0.00	Horizontal	Pass
5	14414.000	58.01	6.89	68.2	-10.19	Peak	346.60	Horizontal	Pass
5**	14414.000	47.53	6.89	54.0	-6.47	AV	346.60	Horizontal	Pass
6	17887.250	58.44	7.13	74.0	-15.56	Peak	230.90	Horizontal	Pass
6**	17887.250	48.24	7.13	54.0	-5.76	AV	230.90	Horizontal	Pass



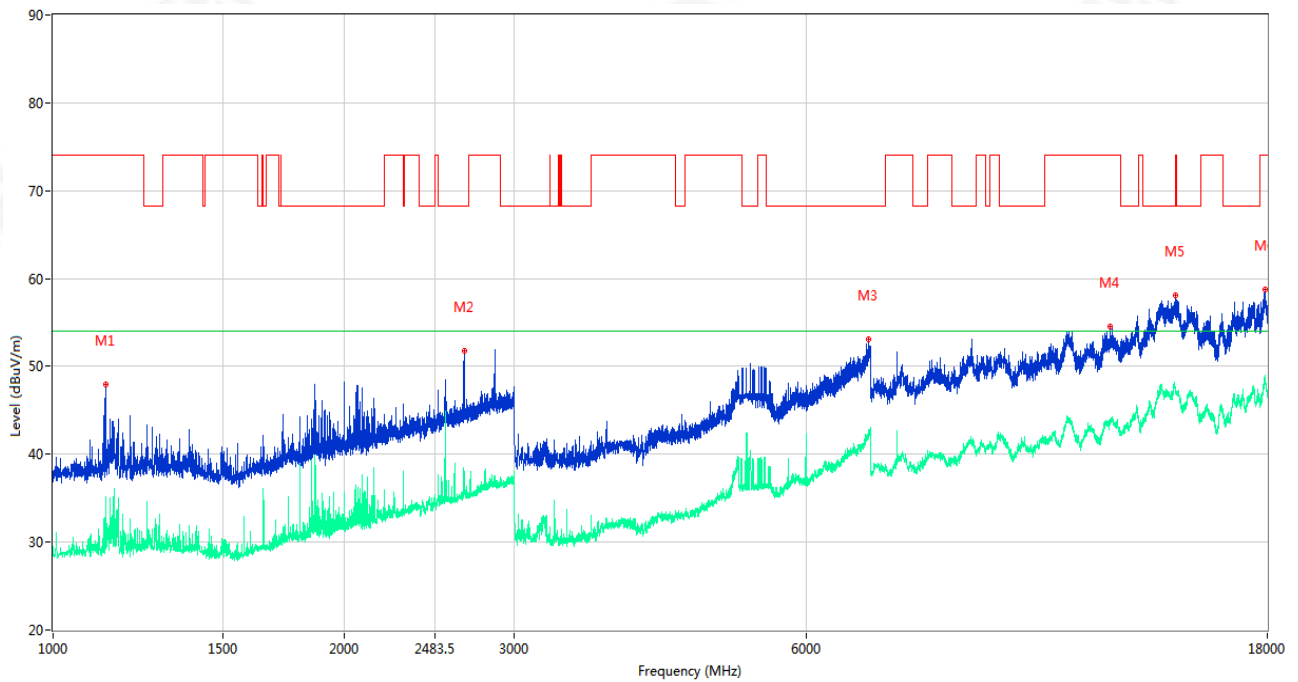
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34786.000	42.58	9.64	52.22	68.20	-15.98	peak
2	34786.000	32.89	9.64	42.53	54.00	-11.47	AVG



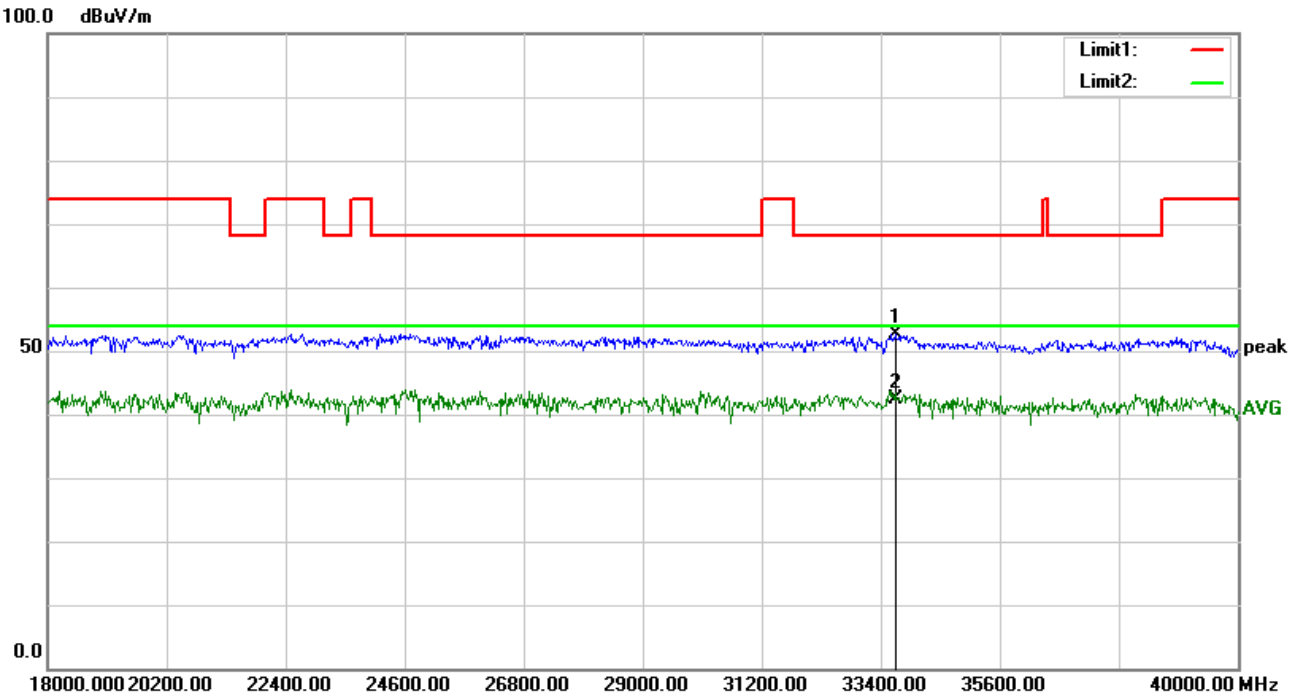
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1133.500	47.96	-1.70	74.0	-26.04	Peak	172.20	Vertical	Pass
1**	1133.500	35.18	-1.70	54.0	-18.82	AV	172.20	Vertical	Pass
2	2659.500	51.72	3.98	68.2	-16.48	Peak	159.50	Vertical	Pass
2**	2659.500	38.06	3.98	54.0	-15.94	AV	159.50	Vertical	Pass
3	6975.000	53.04	1.12	68.2	-15.16	Peak	12.10	Vertical	Pass
3**	6975.000	42.64	1.12	54.0	-11.36	AV	12.10	Vertical	Pass
4	12379.000	54.53	3.14	74.0	-19.47	Peak	17.50	Vertical	Pass
4**	12379.000	43.94	3.14	54.0	-10.06	AV	17.50	Vertical	Pass
5	14463.500	58.08	6.54	68.2	-10.12	Peak	13.40	Vertical	Pass
5**	14463.500	47.13	6.54	54.0	-6.87	AV	13.40	Vertical	Pass
6	17914.751	58.78	7.13	74.0	-15.22	Peak	284.40	Vertical	Pass
6**	17914.751	48.31	7.13	54.0	-5.69	AV	284.40	Vertical	Pass



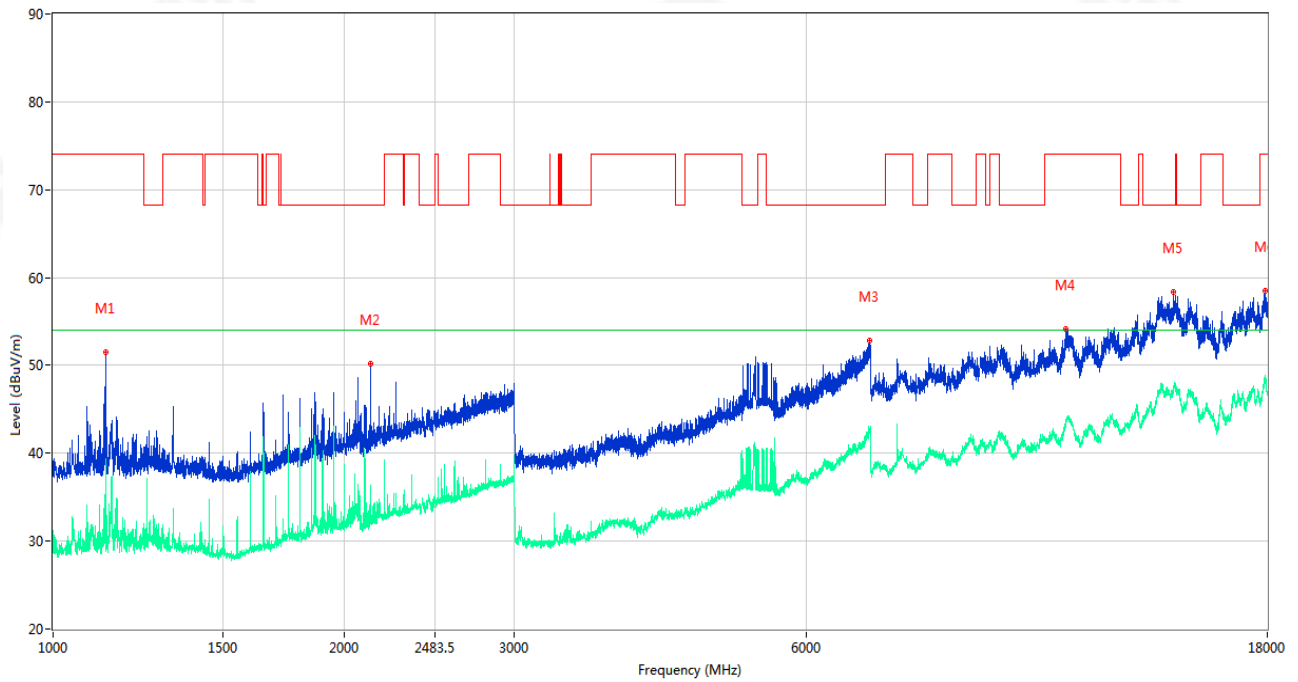
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33664.000	43.48	9.24	52.72	68.20	-15.48	peak
2	33664.000	33.12	9.24	42.36	54.00	-11.64	AVG



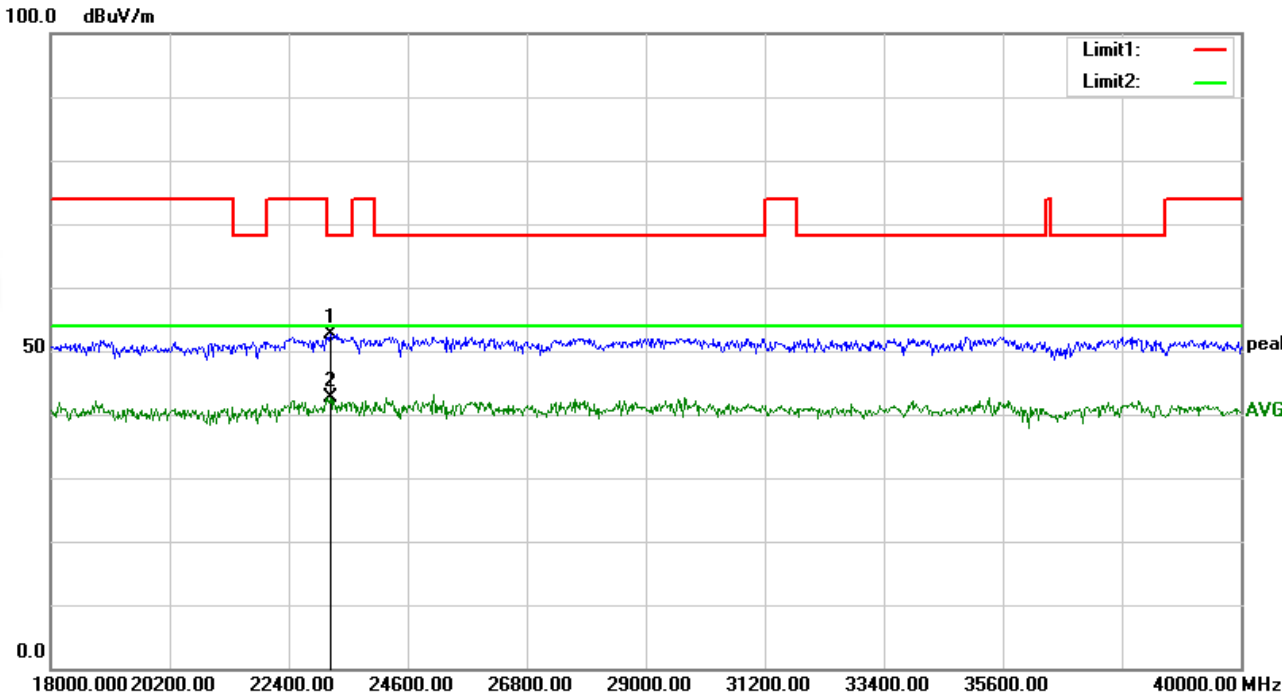
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1133.000	51.47	-1.70	74.0	-22.53	Peak	102.20	Horizontal	Pass
1**	1133.000	39.31	-1.70	54.0	-14.69	AV	102.20	Horizontal	Pass
2	2128.500	50.21	1.44	68.2	-17.99	Peak	110.40	Horizontal	Pass
2**	2128.500	36.35	1.44	54.0	-17.65	AV	110.40	Horizontal	Pass
3	6985.000	52.78	1.20	68.2	-15.42	Peak	187.70	Horizontal	Pass
3**	6985.000	42.29	1.20	54.0	-11.71	AV	187.70	Horizontal	Pass
4	11147.000	54.16	2.33	74.0	-19.84	Peak	56.50	Horizontal	Pass
4**	11147.000	43.34	2.33	54.0	-10.66	AV	56.50	Horizontal	Pass
5	14403.000	58.36	6.97	68.2	-9.84	Peak	356.30	Horizontal	Pass
5**	14403.000	47.58	6.97	54.0	-6.42	AV	356.30	Horizontal	Pass
6	17903.749	58.46	7.21	74.0	-15.54	Peak	217.90	Horizontal	Pass
6**	17903.749	48.65	7.21	54.0	-5.35	AV	217.90	Horizontal	Pass



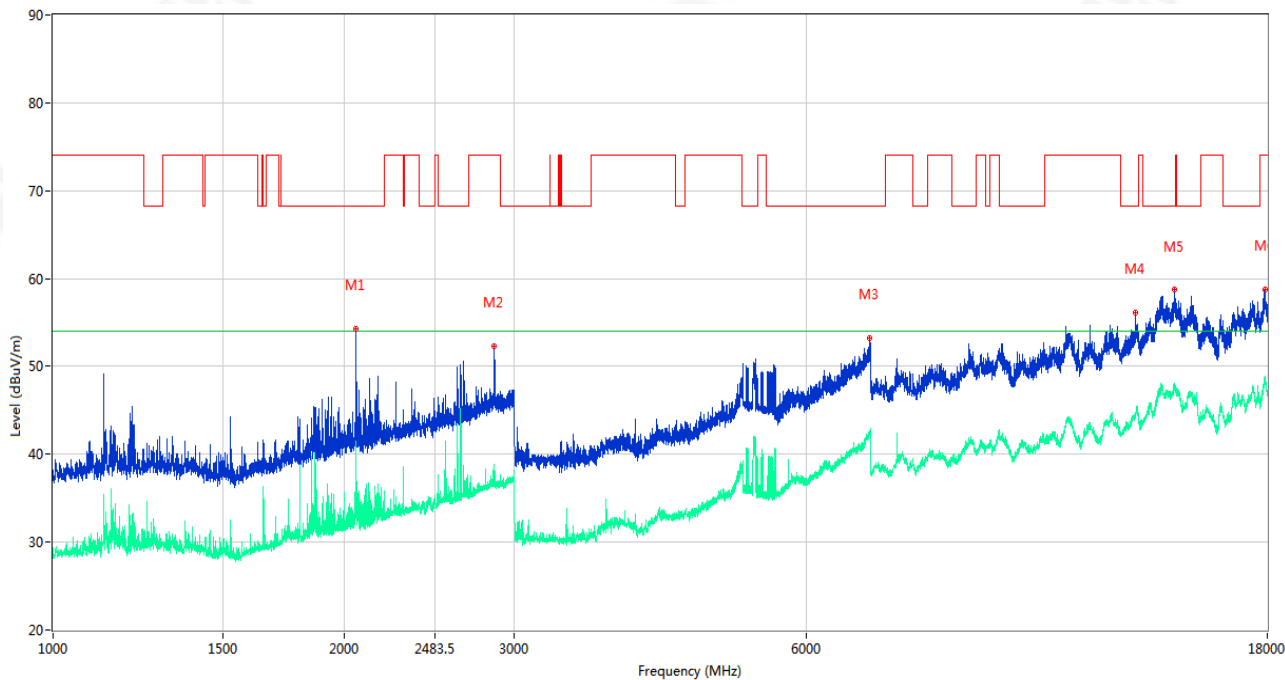
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23170.000	48.79	3.80	52.59	68.20	-15.61	peak
2	23170.000	38.80	3.80	42.60	54.00	-11.40	AVG



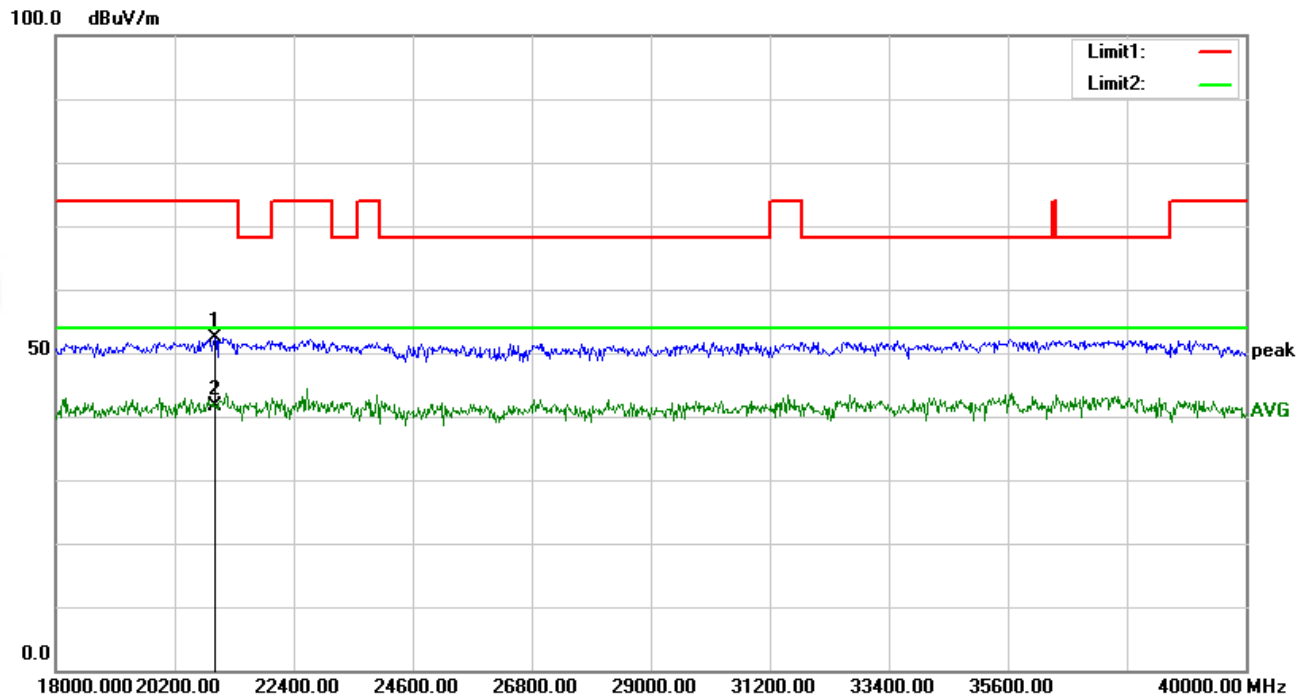
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2058.000	54.24	0.82	68.2	-13.96	Peak	107.70	Vertical	Pass
1**	2058.000	41.55	0.82	54.0	-12.45	AV	107.70	Vertical	Pass
2	2854.500	52.29	4.99	74.0	-21.71	Peak	184.00	Vertical	Pass
2**	2854.500	38.90	4.99	54.0	-15.10	AV	184.00	Vertical	Pass
3	6981.000	53.24	1.17	68.2	-14.96	Peak	355.00	Vertical	Pass
3**	6981.000	42.36	1.17	54.0	-11.64	AV	355.00	Vertical	Pass
4	13146.250	56.11	4.92	68.2	-12.09	Peak	236.80	Vertical	Pass
4**	13146.250	44.43	4.92	54.0	-9.57	AV	236.80	Vertical	Pass
5	14422.250	58.70	6.83	68.2	-9.50	Peak	184.70	Vertical	Pass
5**	14422.250	48.06	6.83	54.0	-5.94	AV	184.70	Vertical	Pass
6	17898.250	58.71	7.22	74.0	-15.29	Peak	278.90	Vertical	Pass
6**	17898.250	48.54	7.22	54.0	-5.46	AV	278.90	Vertical	Pass



18GHz-40GHz



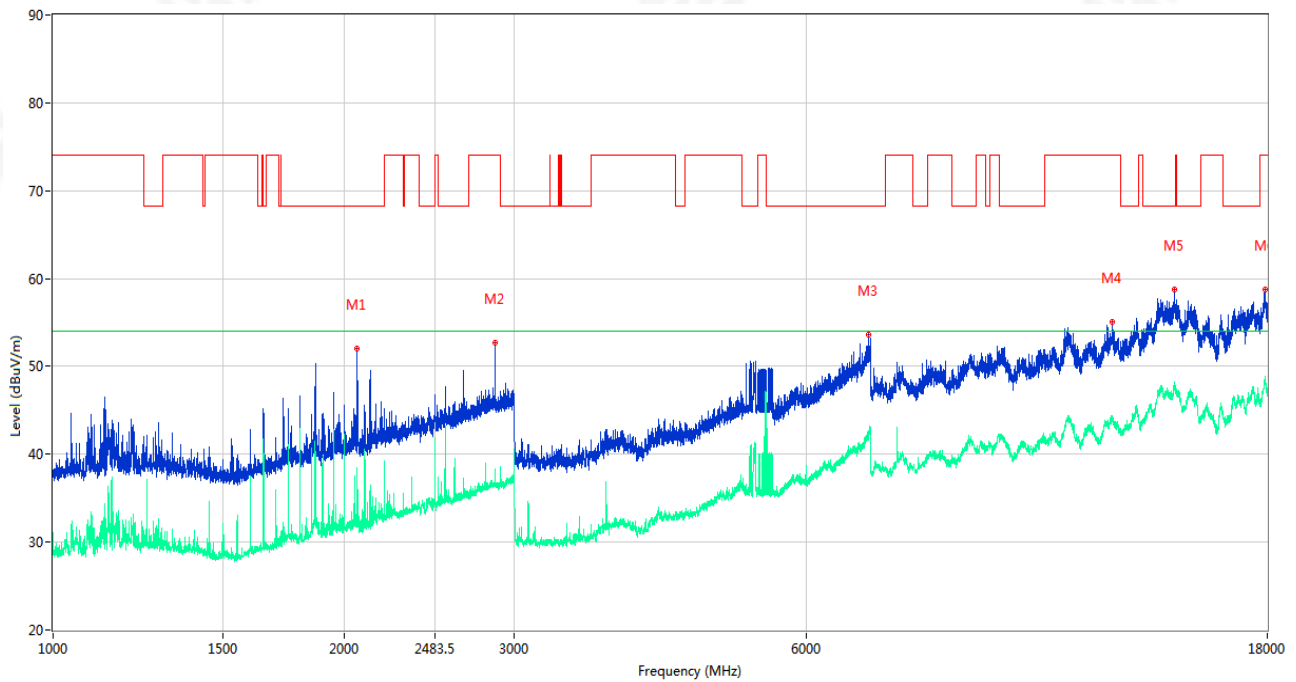
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20948.000	49.83	2.61	52.44	74.00	-21.56	peak
2	20948.000	39.00	2.61	41.61	54.00	-12.39	AVG

Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- 3) All 40MHz Bandwidth of 5G RLAN (U-NII-2A)802.11n40/ac40/ax40 have been tested for above 1GHz test, only the worst case 802.11ax40 MIMO was recorded



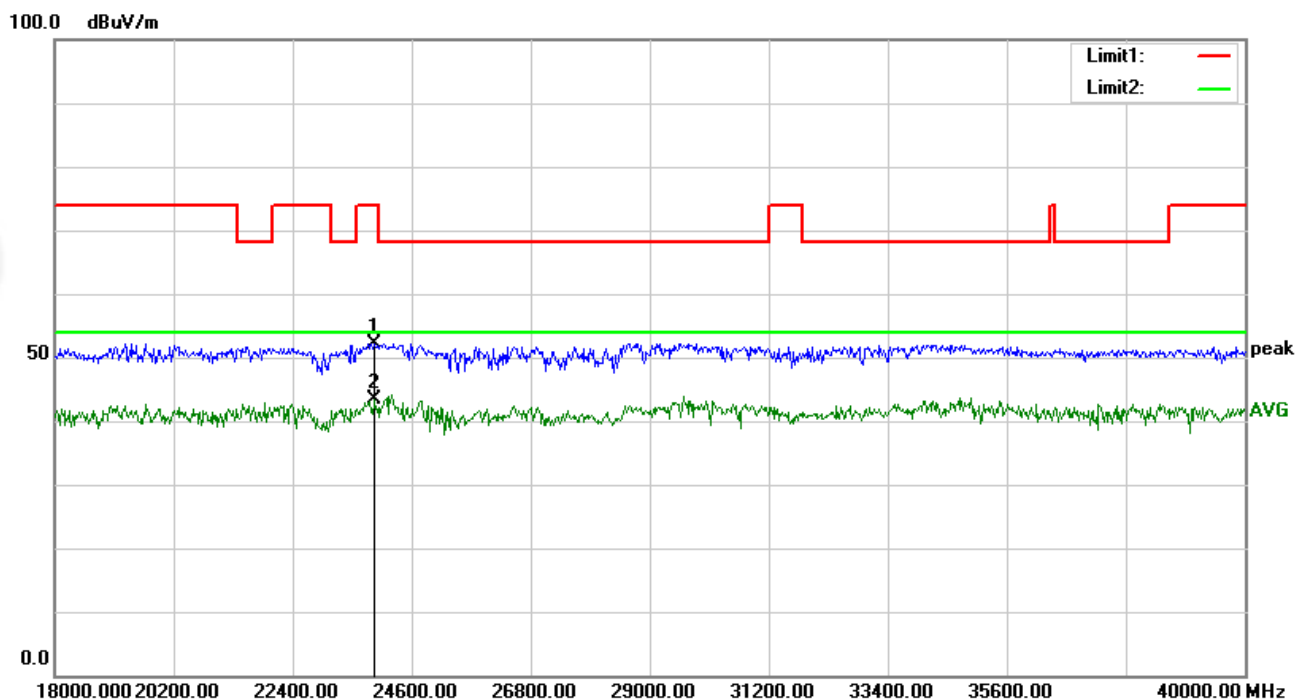
802.11 ax80-MIMO
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2061.000	52.08	0.83	68.2	-16.12	Peak	112.60	Horizontal	Pass
1**	2061.000	38.41	0.83	54.0	-15.59	AV	112.60	Horizontal	Pass
2	2861.500	52.64	4.97	74.0	-21.36	Peak	139.70	Horizontal	Pass
2**	2861.500	38.35	4.97	54.0	-15.65	AV	139.70	Horizontal	Pass
3	6969.000	53.57	1.07	68.2	-14.63	Peak	252.50	Horizontal	Pass
3**	6969.000	42.13	1.07	54.0	-11.87	AV	252.50	Horizontal	Pass
4	12431.250	55.08	2.86	74.0	-18.92	Peak	8.10	Horizontal	Pass
4**	12431.250	44.04	2.86	54.0	-9.96	AV	8.10	Horizontal	Pass
5	14436.000	58.77	6.73	68.2	-9.43	Peak	303.10	Horizontal	Pass
5**	14436.000	47.72	6.73	54.0	-6.28	AV	303.10	Horizontal	Pass
6	17895.500	58.78	7.20	74.0	-15.22	Peak	217.90	Horizontal	Pass
6**	17895.500	48.80	7.20	54.0	-5.20	AV	217.90	Horizontal	Pass



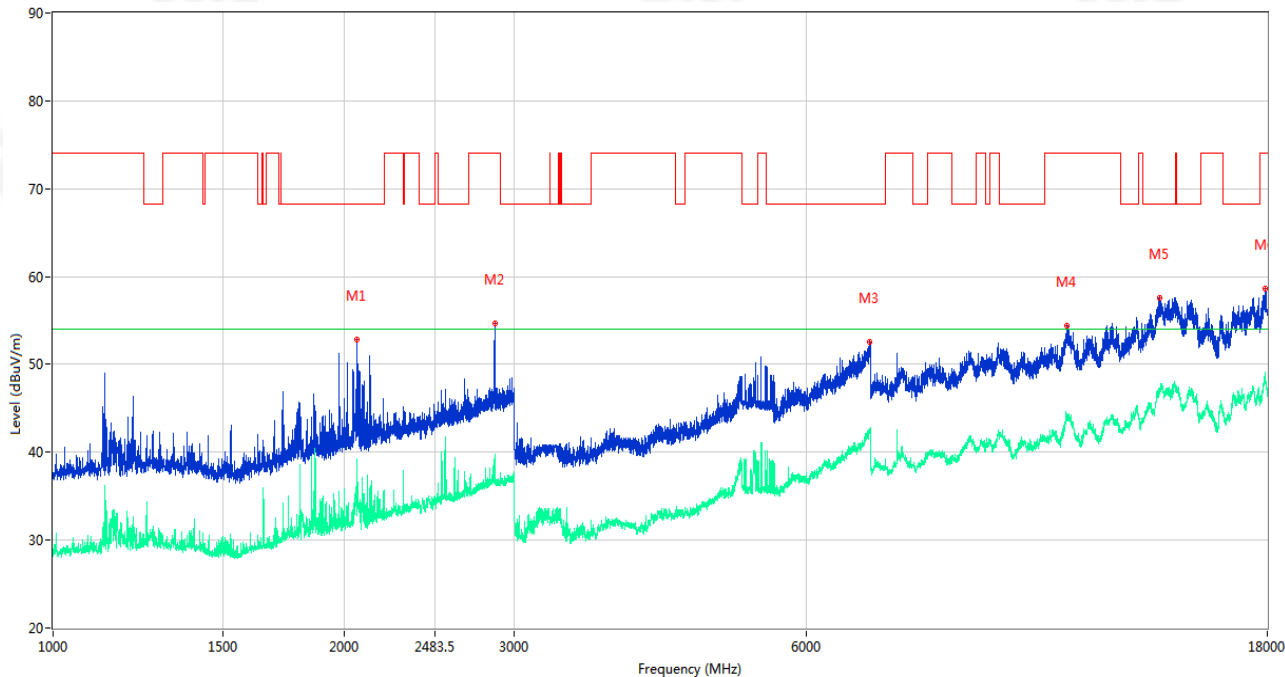
18GHz-40GHz



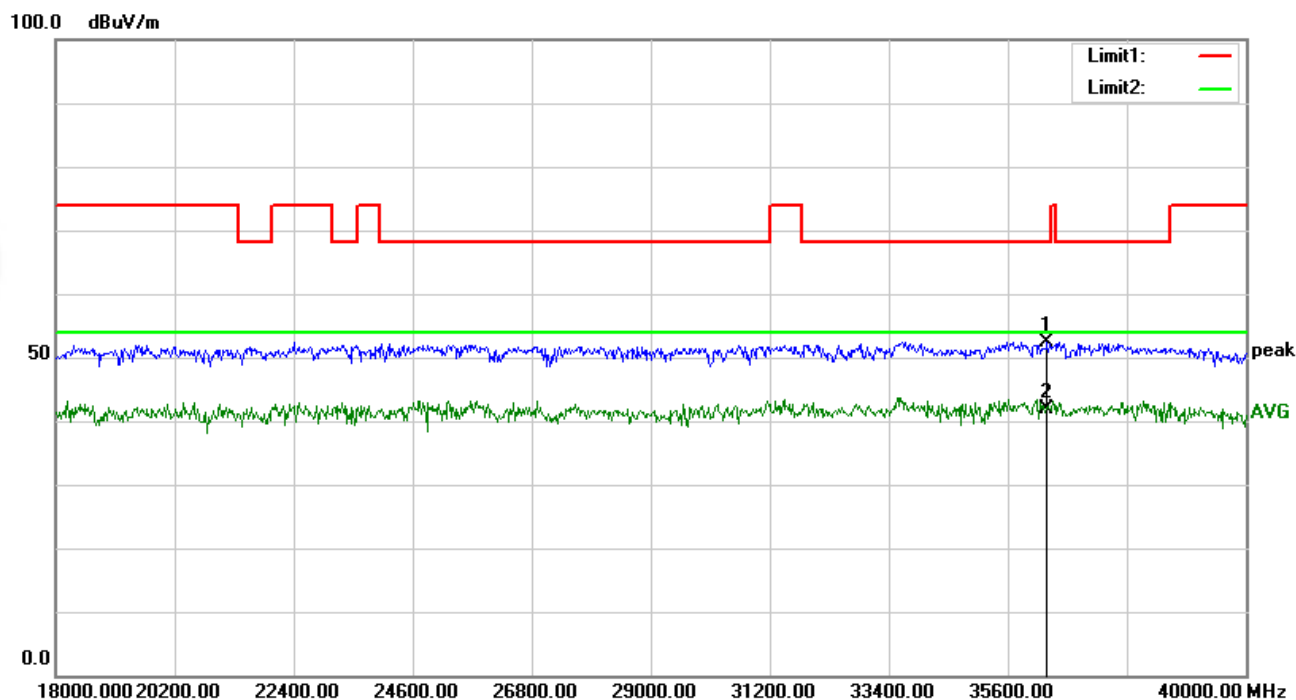
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23918.000	47.70	4.54	52.24	74.00	-21.76	peak
2	23918.000	38.95	4.54	43.49	54.00	-10.51	AVG



Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2063.500	52.80	0.83	68.2	-15.40	Peak	166.90	Vertical	Pass
1**	2063.500	39.29	0.83	54.0	-14.71	AV	166.90	Vertical	Pass
2	2863.500	54.64	4.97	74.0	-19.36	Peak	80.20	Vertical	Pass
2**	2863.500	39.74	4.97	54.0	-14.26	AV	80.20	Vertical	Pass
3	6989.000	52.53	1.23	68.2	-15.67	Peak	3.50	Vertical	Pass
3**	6989.000	42.72	1.23	54.0	-11.28	AV	3.50	Vertical	Pass
4	11158.000	54.44	2.39	74.0	-19.56	Peak	355.90	Vertical	Pass
4**	11158.000	43.93	2.39	54.0	-10.07	AV	355.90	Vertical	Pass
5	13921.750	57.55	7.47	68.2	-10.65	Peak	144.60	Vertical	Pass
5**	13921.750	46.77	7.47	54.0	-7.23	AV	144.60	Vertical	Pass
6	17901.001	58.59	7.23	74.0	-15.41	Peak	123.00	Vertical	Pass
6**	17901.001	48.88	7.23	54.0	-5.12	AV	123.00	Vertical	Pass

S
18GHz-40GHz

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36326.000	43.71	8.76	52.47	68.20	-15.73	peak
2	36326.000	33.13	8.76	41.89	54.00	-12.11	AVG

Note:

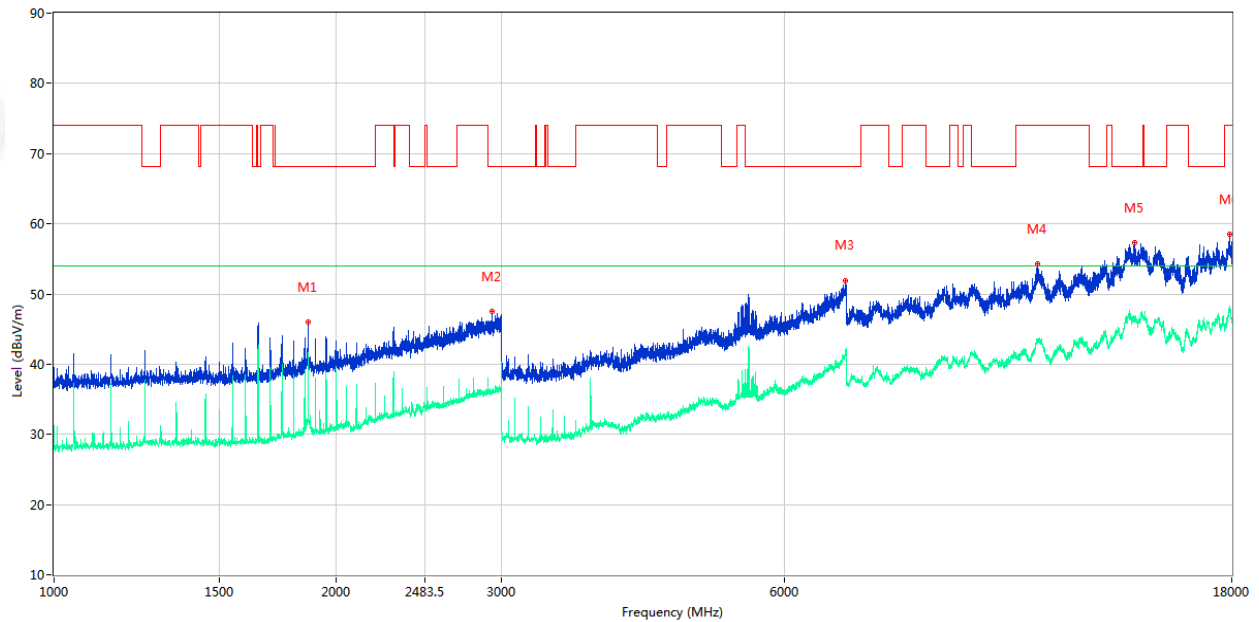
- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- 3) All 80MHz Bandwidth of 5G RLAN (U-NII-2A)802.11ac80/ax80 have been tested for above 1GHz test, only the worst case 802.11ax80 MIMO was recorded



U-NII-2C

802.11n20-MIMO
Low Channel
Horizontal

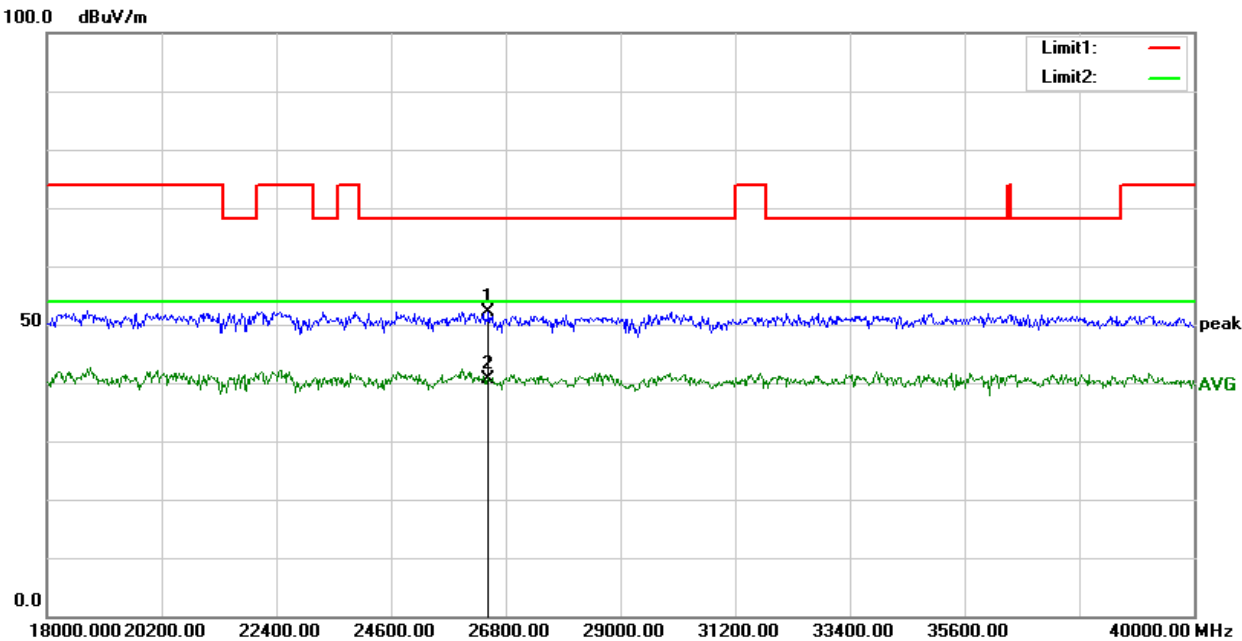
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1866.500	45.94	-0.09	68.2	-22.26	Peak	185.90	Horizontal	Pass
1**	1866.500	39.22	-0.09	54.0	-14.78	AV	185.90	Horizontal	Pass
2	2929.000	47.52	5.08	68.2	-20.68	Peak	311.10	Horizontal	Pass
2**	2929.000	36.02	5.08	54.0	-17.98	AV	311.10	Horizontal	Pass
3	6976.000	51.95	1.13	68.2	-16.25	Peak	179.20	Horizontal	Pass
3**	6976.000	41.54	1.13	54.0	-12.46	AV	179.20	Horizontal	Pass
4	11169.000	54.31	2.45	74.0	-19.69	Peak	116.60	Horizontal	Pass
4**	11169.000	43.10	2.45	54.0	-10.90	AV	116.60	Horizontal	Pass
5	14199.500	57.33	6.96	68.2	-10.87	Peak	206.20	Horizontal	Pass
5**	14199.500	46.54	6.96	54.0	-7.46	AV	206.20	Horizontal	Pass
6	17895.500	58.46	7.20	74.0	-15.54	Peak	234.10	Horizontal	Pass
6**	17895.500	48.06	7.20	54.0	-5.94	AV	234.10	Horizontal	Pass



18GHz-40GHz

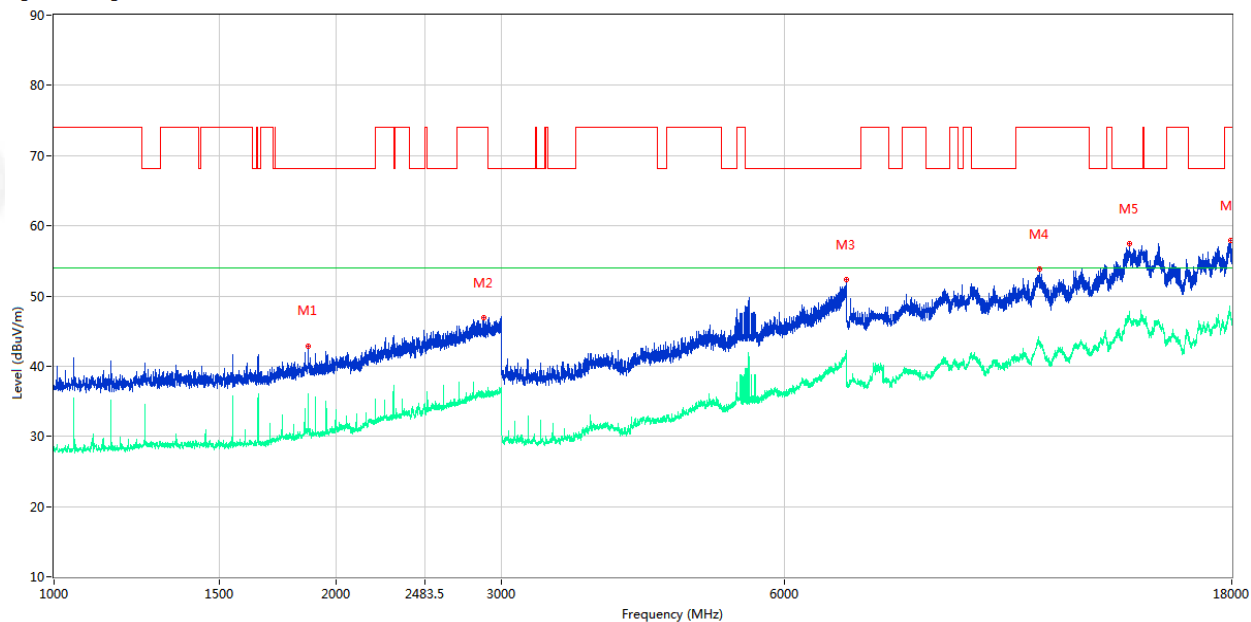


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26470.000	46.18	6.04	52.22	68.20	-15.98	peak
2	26470.000	34.60	6.04	40.64	54.00	-13.36	AVG



Vertical 1GHz-18GHz

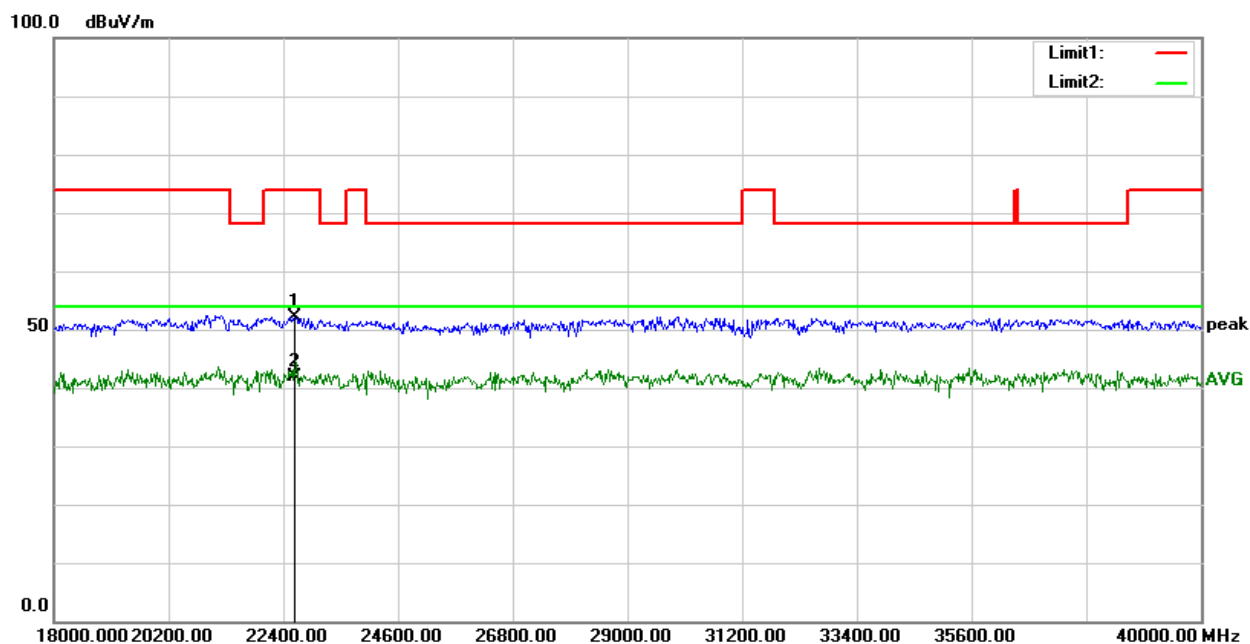
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1866.500	42.90	-0.09	68.2	-25.30	Peak	273.30	Vertical	Pass
1**	1866.500	34.56	-0.09	54.0	-19.44	AV	273.30	Vertical	Pass
2	2874.500	46.92	4.95	74.0	-27.08	Peak	156.10	Vertical	Pass
2**	2874.500	35.73	4.95	54.0	-18.27	AV	156.10	Vertical	Pass
3	6998.000	52.33	1.30	68.2	-15.87	Peak	179.90	Vertical	Pass
3**	6998.000	41.94	1.30	54.0	-12.06	AV	179.90	Vertical	Pass
4	11235.000	53.78	2.50	74.0	-20.22	Peak	296.30	Vertical	Pass
4**	11235.000	43.64	2.50	54.0	-10.36	AV	296.30	Vertical	Pass
5	14018.000	57.46	8.16	68.2	-10.74	Peak	2.30	Vertical	Pass
5**	14018.000	46.60	8.16	54.0	-7.40	AV	2.30	Vertical	Pass
6	17945.000	57.91	6.89	74.0	-16.09	Peak	230.50	Vertical	Pass
6**	17945.000	47.57	6.89	54.0	-6.43	AV	230.50	Vertical	Pass



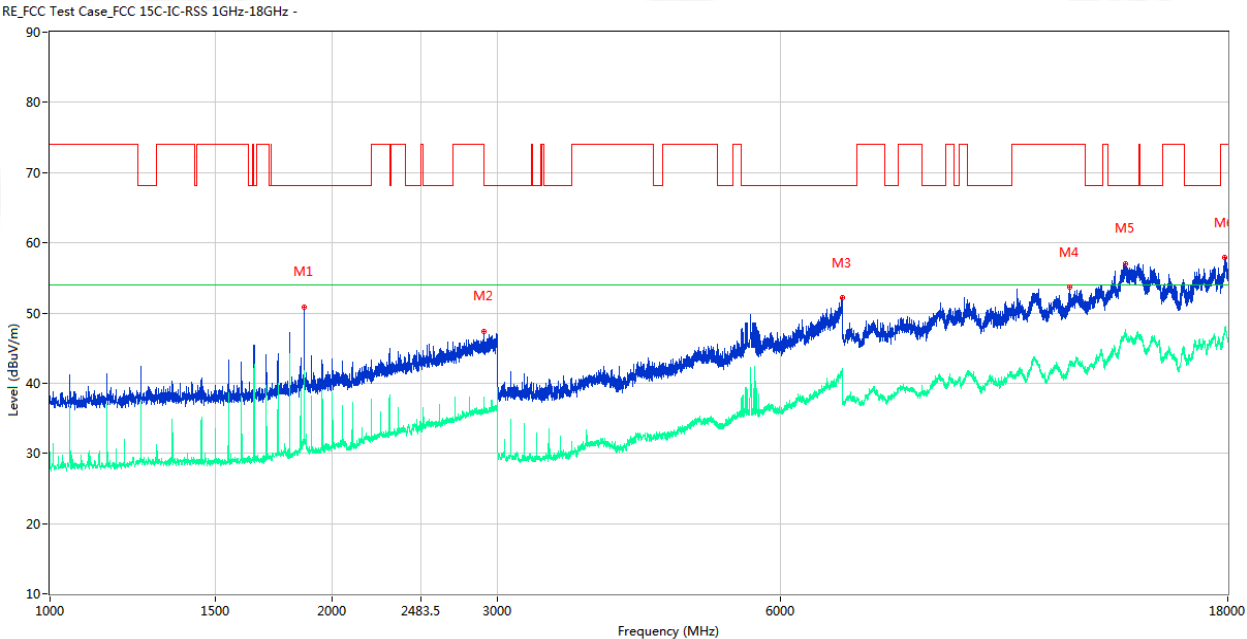
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22620.000	48.34	3.85	52.19	74.00	-21.81	peak
2	22620.000	38.15	3.85	42.00	54.00	-12.00	AVG



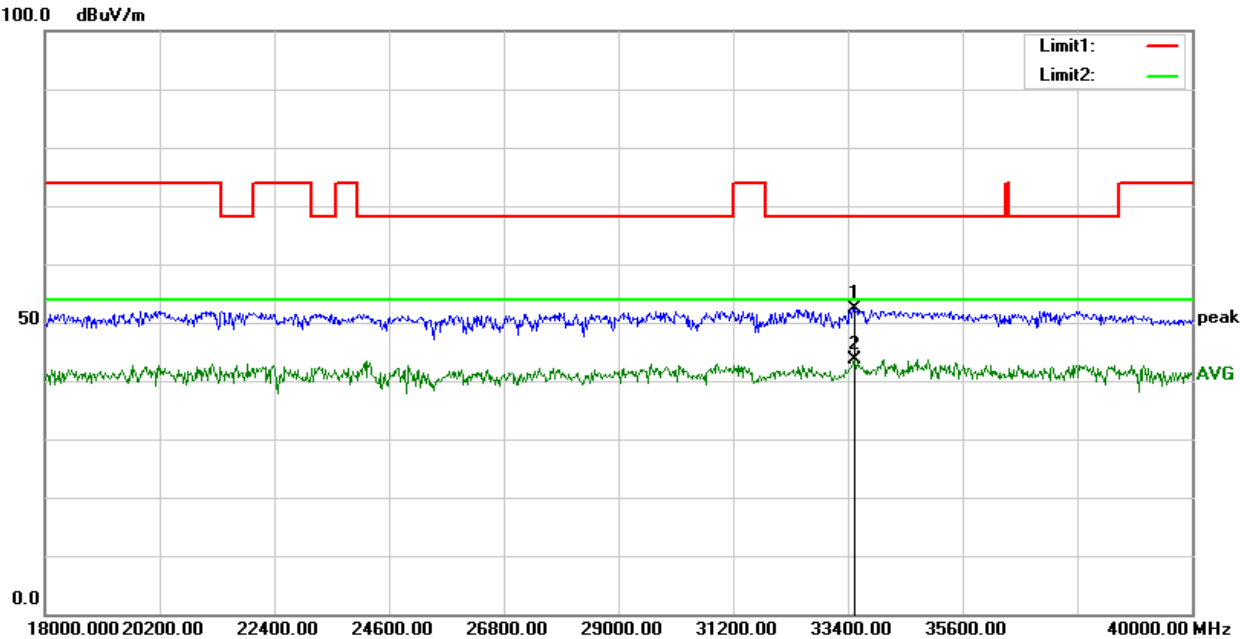
Mid Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1866.500	50.90	-0.09	68.2	-17.30	Peak	211.20	Horizontal	Pass
1**	1866.500	39.86	-0.09	54.0	-14.14	AV	211.20	Horizontal	Pass
2	2900.500	47.42	4.90	68.2	-20.78	Peak	220.50	Horizontal	Pass
2**	2900.500	37.87	4.90	54.0	-16.13	AV	220.50	Horizontal	Pass
3	6999.000	52.15	1.31	68.2	-16.05	Peak	69.00	Horizontal	Pass
3**	6999.000	41.90	1.31	54.0	-12.10	AV	69.00	Horizontal	Pass
4	12205.750	53.66	2.77	74.0	-20.34	Peak	46.50	Horizontal	Pass
4**	12205.750	42.51	2.77	54.0	-11.49	AV	46.50	Horizontal	Pass
5	13998.750	57.08	8.43	68.2	-11.12	Peak	216.50	Horizontal	Pass
5**	13998.750	47.71	8.43	54.0	-6.29	AV	216.50	Horizontal	Pass
6	17878.999	57.85	7.06	74.0	-16.15	Peak	61.70	Horizontal	Pass
6**	17878.999	47.71	7.06	54.0	-6.29	AV	61.70	Horizontal	Pass



18GHz-40GHz

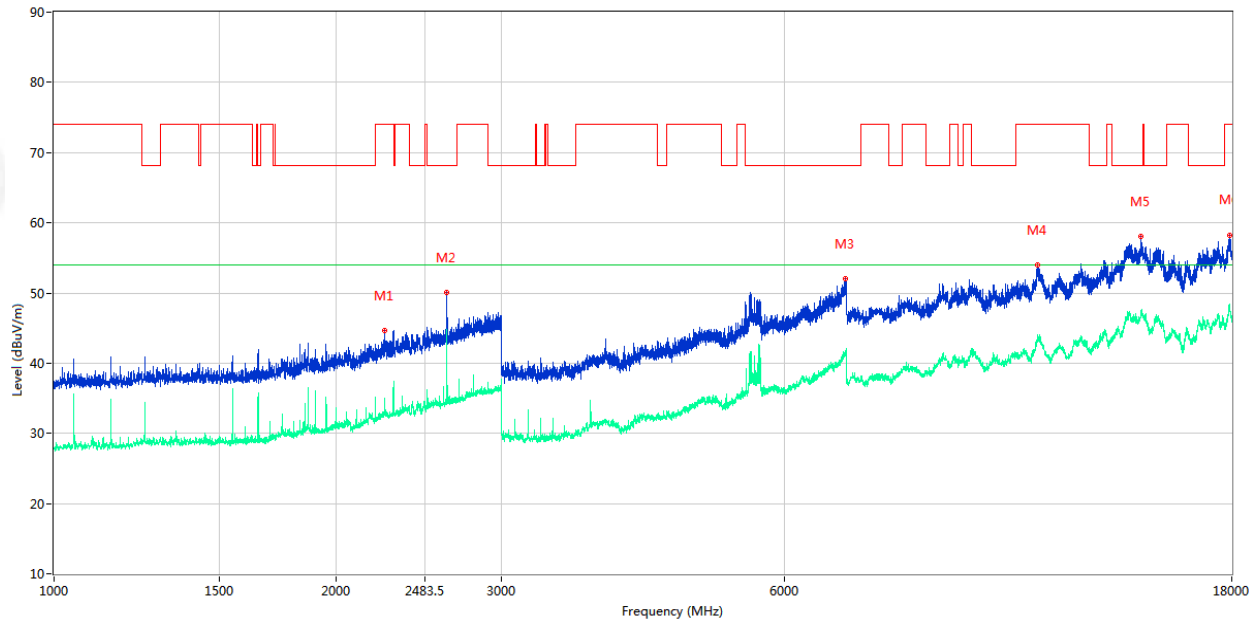


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33532.000	43.25	9.17	52.42	68.20	-15.78	peak
2	33532.000	34.37	9.17	43.54	54.00	-10.46	AVG



Vertical 1GHz-18GHz

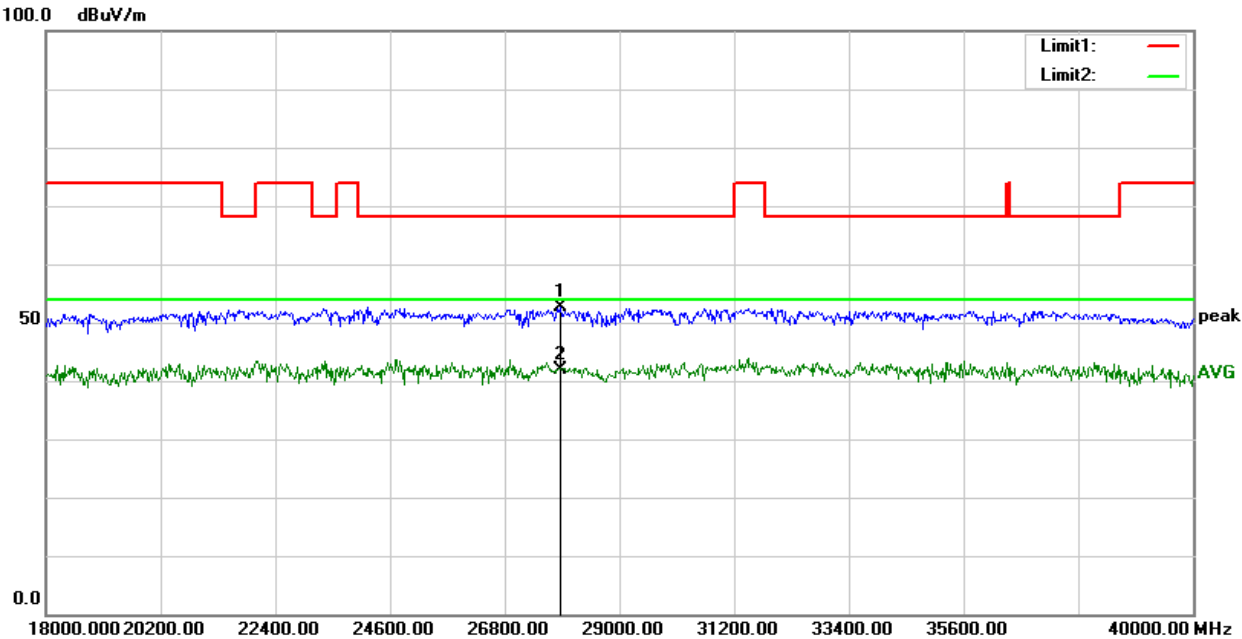
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2250.000	44.70	2.16	74.0	-29.30	Peak	49.60	Vertical	Pass
1**	2250.000	35.08	2.16	54.0	-18.92	AV	49.60	Vertical	Pass
2	2623.500	50.05	3.69	68.2	-18.15	Peak	5.30	Vertical	Pass
2**	2623.500	44.78	3.69	54.0	-9.22	AV	5.30	Vertical	Pass
3	6979.000	52.08	1.15	68.2	-16.12	Peak	29.40	Vertical	Pass
3**	6979.000	41.53	1.15	54.0	-12.47	AV	29.40	Vertical	Pass
4	11163.500	53.93	2.42	74.0	-20.07	Peak	327.20	Vertical	Pass
4**	11163.500	43.03	2.42	54.0	-10.97	AV	327.20	Vertical	Pass
5	14405.750	58.06	6.95	68.2	-10.14	Peak	0.70	Vertical	Pass
5**	14405.750	47.00	6.95	54.0	-7.00	AV	0.70	Vertical	Pass
6	17917.499	58.27	7.11	74.0	-15.73	Peak	159.10	Vertical	Pass
6**	17917.499	47.64	7.11	54.0	-6.36	AV	159.10	Vertical	Pass



18GHz-40GHz

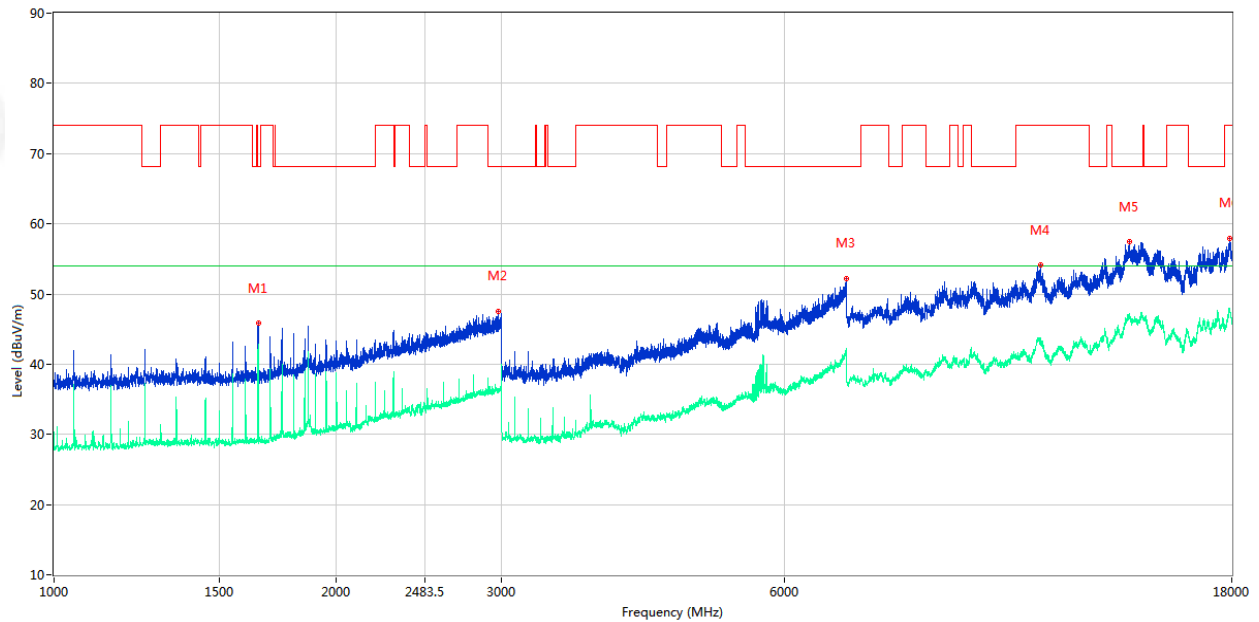


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27878.000	45.42	7.25	52.67	68.20	-15.53	peak
2	27878.000	34.75	7.25	42.00	54.00	-12.00	AVG



High Channel Horizontal 1GHz-18GHz

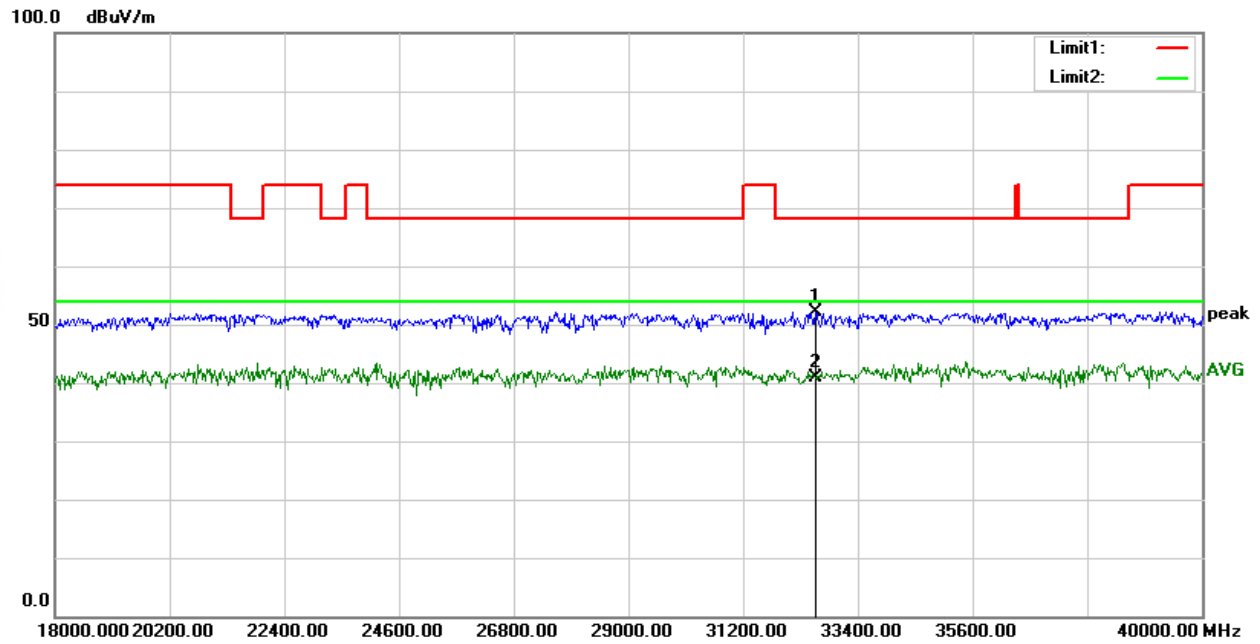
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1650.000	45.86	-0.97	68.2	-22.34	Peak	251.70	Horizontal	Pass
1**	1650.000	42.87	-0.97	54.0	-11.13	AV	251.70	Horizontal	Pass
2	2974.500	47.59	5.34	68.2	-20.61	Peak	97.30	Horizontal	Pass
2**	2974.500	36.38	5.34	54.0	-17.62	AV	97.30	Horizontal	Pass
3	6992.000	52.23	1.26	68.2	-15.97	Peak	360.00	Horizontal	Pass
3**	6992.000	41.58	1.26	54.0	-12.42	AV	360.00	Horizontal	Pass
4	11262.500	54.08	2.41	74.0	-19.92	Peak	359.50	Horizontal	Pass
4**	11262.500	42.86	2.41	54.0	-11.14	AV	359.50	Horizontal	Pass
5	13998.750	57.39	8.43	68.2	-10.81	Peak	98.40	Horizontal	Pass
5**	13998.750	47.11	8.43	54.0	-6.89	AV	98.40	Horizontal	Pass
6	17887.250	57.95	7.13	74.0	-16.05	Peak	53.40	Horizontal	Pass
6**	17887.250	47.92	7.13	54.0	-6.08	AV	53.40	Horizontal	Pass



18GHz-40GHz

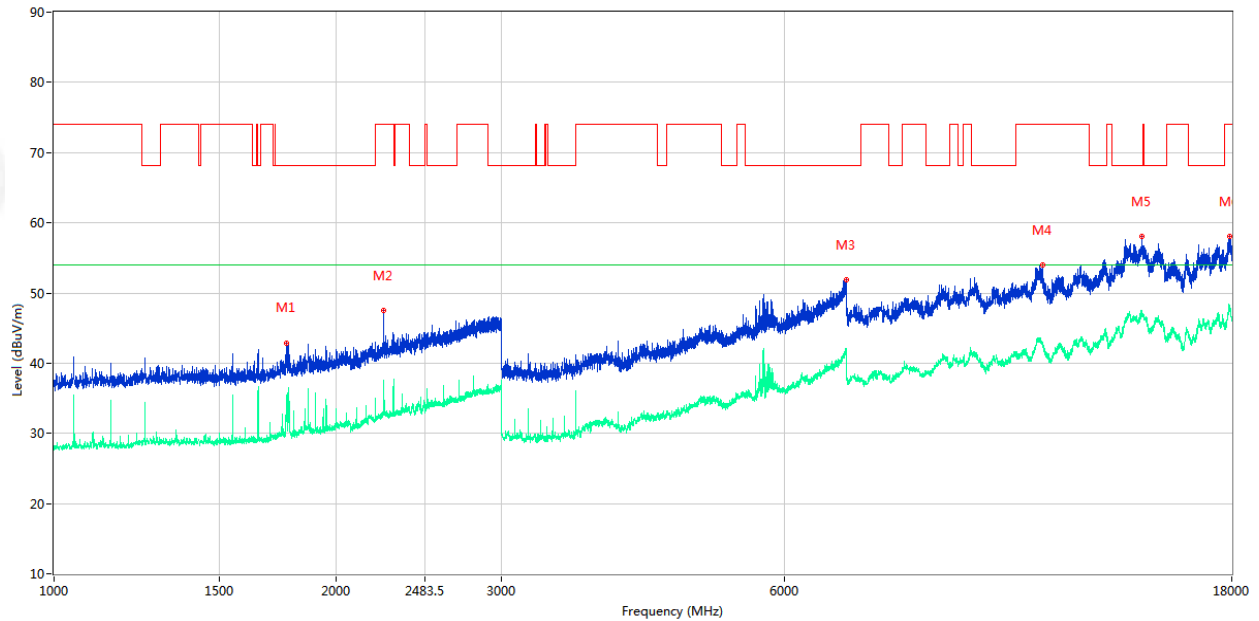


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32586.000	42.94	9.16	52.10	68.20	-16.10	peak
2	32586.000	31.67	9.16	40.83	54.00	-13.17	AVG



Vertical 1GHz-18GHz

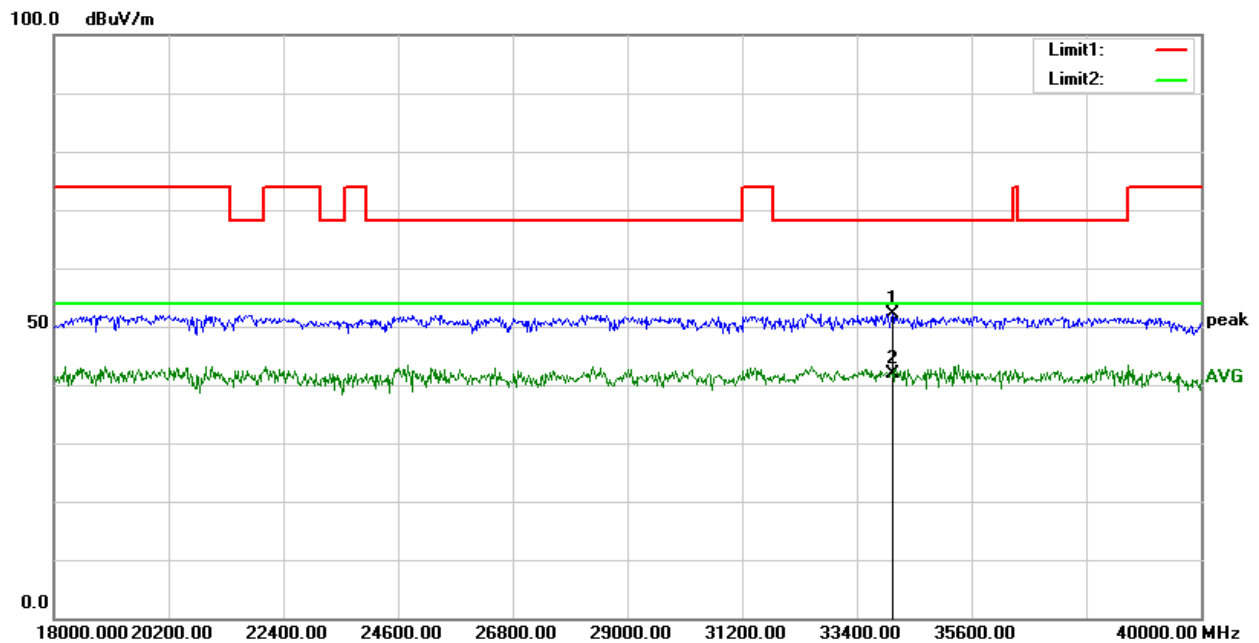
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1769.500	42.91	-0.62	68.2	-25.29	Peak	252.10	Vertical	Pass
1**	1769.500	35.42	-0.62	54.0	-18.58	AV	252.10	Vertical	Pass
2	2243.000	47.56	2.07	74.0	-26.44	Peak	159.90	Vertical	Pass
2**	2243.000	37.63	2.07	54.0	-16.37	AV	159.90	Vertical	Pass
3	6985.000	51.85	1.20	68.2	-16.35	Peak	18.10	Vertical	Pass
3**	6985.000	42.04	1.20	54.0	-11.96	AV	18.10	Vertical	Pass
4	11323.000	54.00	2.20	74.0	-20.00	Peak	355.70	Vertical	Pass
4**	11323.000	42.71	2.20	54.0	-11.29	AV	355.70	Vertical	Pass
5	14425.000	58.05	6.81	68.2	-10.15	Peak	266.70	Vertical	Pass
5**	14425.000	47.04	6.81	54.0	-6.96	AV	266.70	Vertical	Pass
6	17903.749	58.04	7.21	74.0	-15.96	Peak	178.10	Vertical	Pass
6**	17903.749	48.27	7.21	54.0	-5.73	AV	178.10	Vertical	Pass



18GHz-40GHz



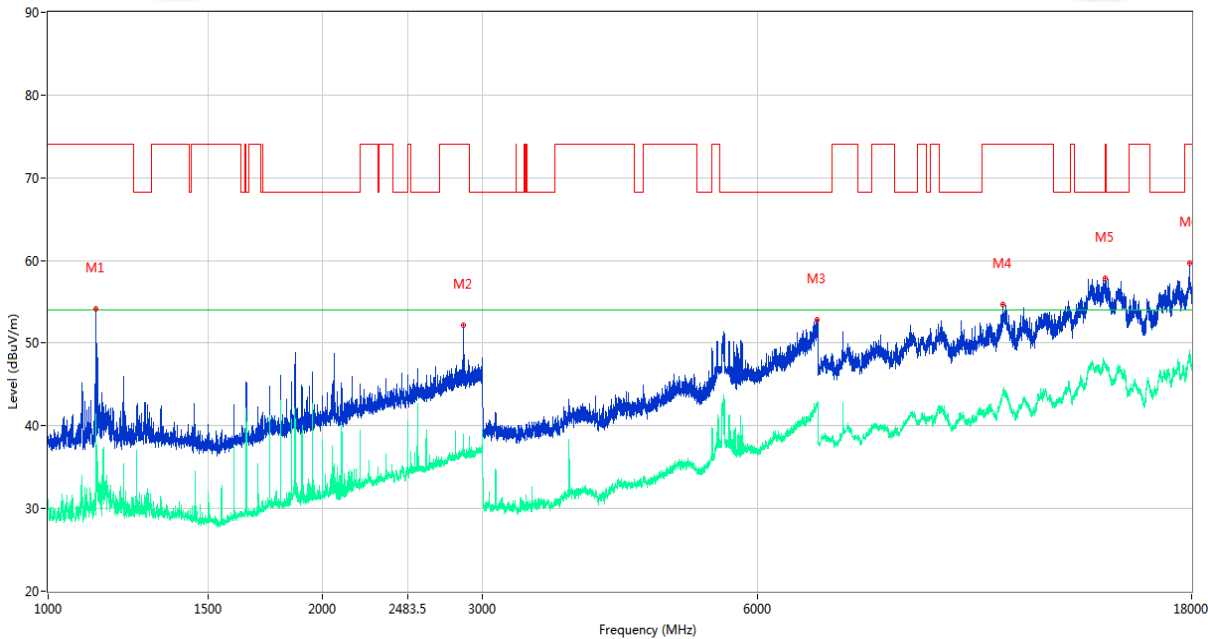
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34082.000	42.79	9.42	52.21	68.20	-15.99	peak
2	34082.000	32.39	9.42	41.81	54.00	-12.19	AVG

Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- 3) All 20MHz Bandwidth of 5G RLAN (U-NII-2C)802.11a/n20/11ac20/ax20 have been tested for above 1GHz test, only the worst case 802.11n20 MIMO was recorded



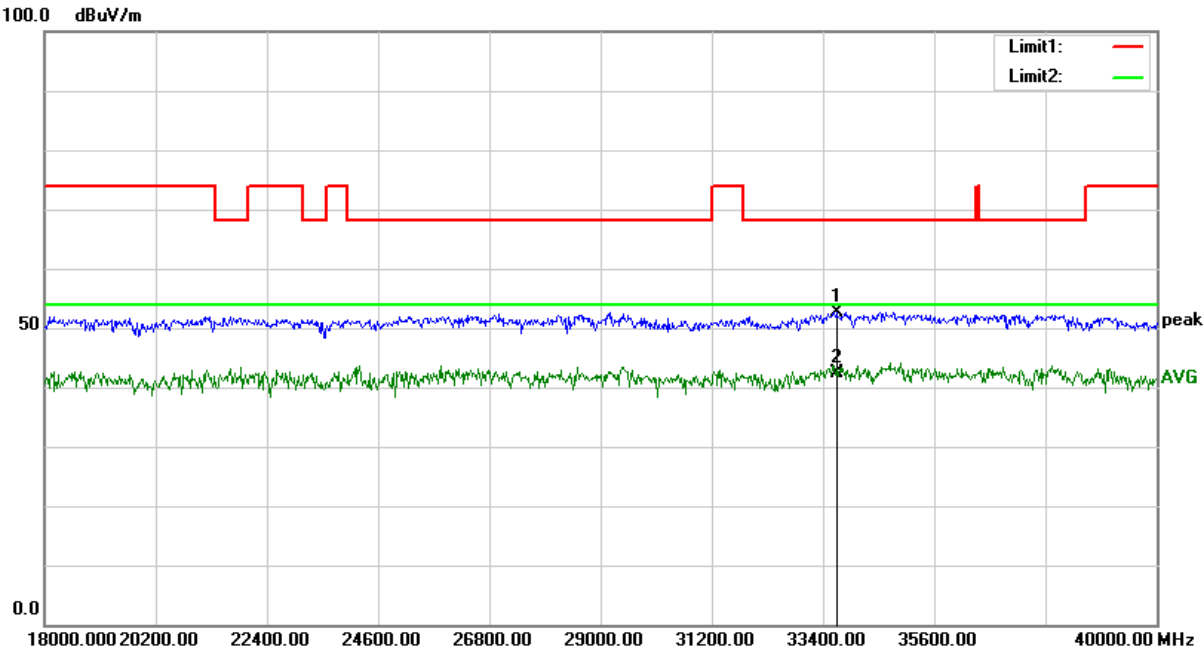
802.11n40-MIMO
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.500	54.14	-1.71	74.0	-19.86	Peak	85.90	Horizontal	Pass
1**	1129.500	41.55	-1.71	54.0	-12.45	AV	85.90	Horizontal	Pass
2	2855.000	52.23	4.99	74.0	-21.77	Peak	94.80	Horizontal	Pass
2**	2855.000	38.45	4.99	54.0	-15.55	AV	94.80	Horizontal	Pass
3	6977.000	52.78	1.13	68.2	-15.42	Peak	123.30	Horizontal	Pass
3**	6977.000	42.54	1.13	54.0	-11.46	AV	123.30	Horizontal	Pass
4	11182.750	54.65	2.53	74.0	-19.35	Peak	49.80	Horizontal	Pass
4**	11182.750	44.42	2.53	54.0	-9.58	AV	49.80	Horizontal	Pass
5	14471.750	57.86	6.48	74.0	-16.14	Peak	164.70	Horizontal	Pass
5**	14471.750	47.10	6.48	54.0	-6.90	AV	164.70	Horizontal	Pass
6	17895.500	59.68	7.20	74.0	-14.32	Peak	45.70	Horizontal	Pass
6**	17895.500	48.81	7.20	54.0	-5.19	AV	45.70	Horizontal	Pass



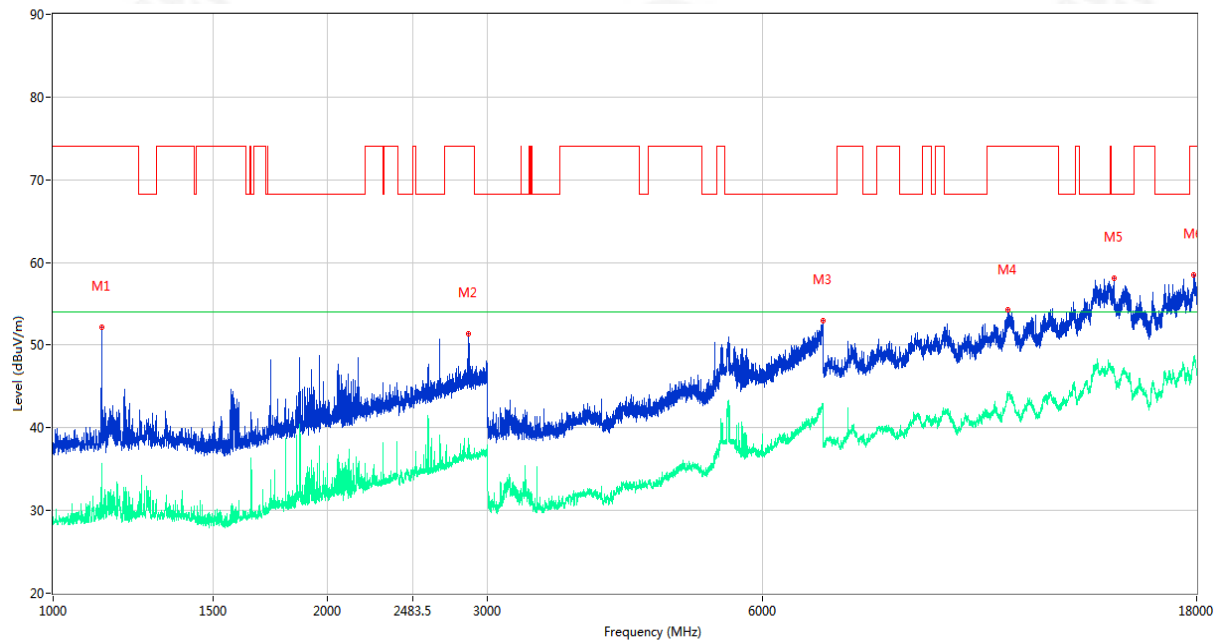
18GHz-40GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33664.000	43.50	9.24	52.74	68.20	-15.46	peak
2	33664.000	33.16	9.24	42.40	54.00	-11.60	AVG



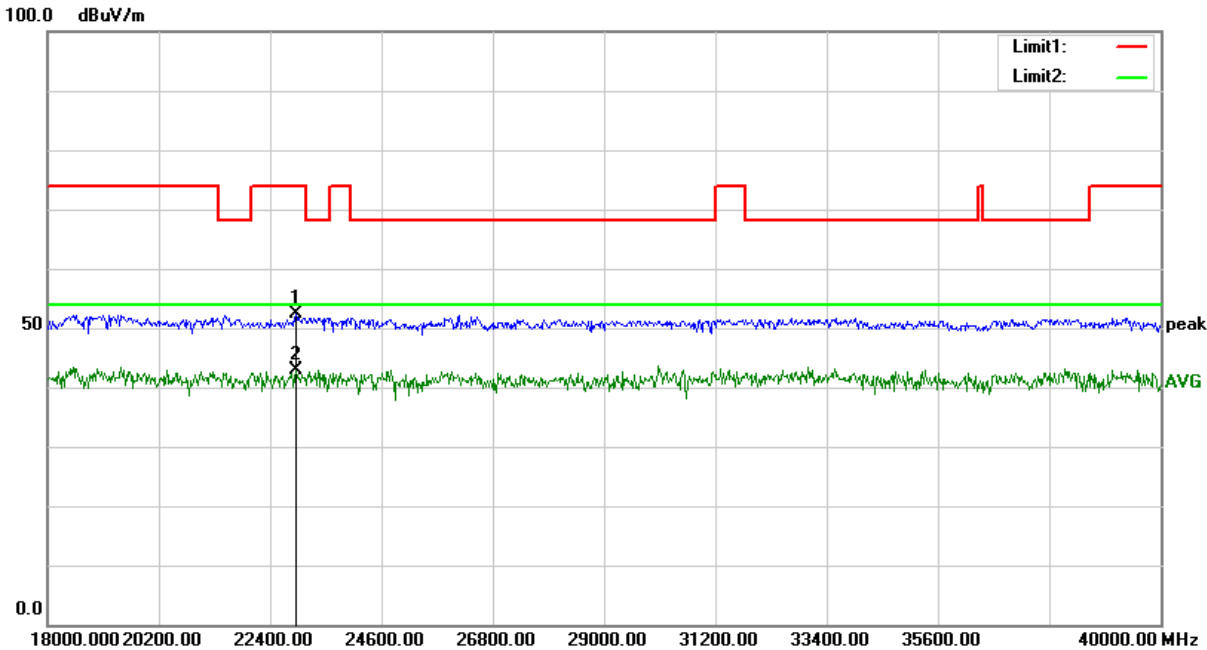
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.000	52.15	-1.71	74.0	-21.85	Peak	172.50	Vertical	Pass
1**	1130.000	35.66	-1.71	54.0	-18.34	AV	172.50	Vertical	Pass
2	2853.500	51.43	4.99	74.0	-22.57	Peak	293.80	Vertical	Pass
2**	2853.500	38.74	4.99	54.0	-15.26	AV	293.80	Vertical	Pass
3	6998.000	52.92	1.30	68.2	-15.28	Peak	190.40	Vertical	Pass
3**	6998.000	42.71	1.30	54.0	-11.29	AV	190.40	Vertical	Pass
4	11158.000	54.22	2.39	74.0	-19.78	Peak	56.00	Vertical	Pass
4**	11158.000	44.03	2.39	54.0	-9.97	AV	56.00	Vertical	Pass
5	14595.500	58.04	6.32	68.2	-10.16	Peak	237.60	Vertical	Pass
5**	14595.500	47.11	6.32	54.0	-6.89	AV	237.60	Vertical	Pass
6	17876.251	58.51	7.04	74.0	-15.49	Peak	65.00	Vertical	Pass
6**	17876.251	48.19	7.04	54.0	-5.81	AV	65.00	Vertical	Pass



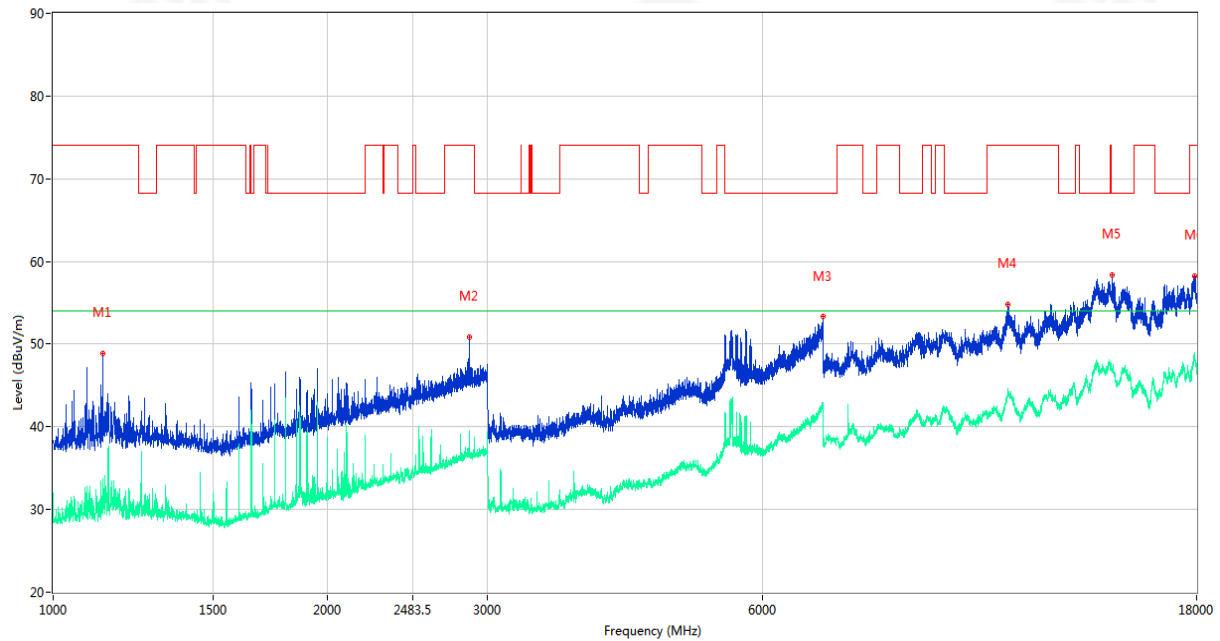
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22906.000	48.64	3.69	52.33	74.00	-21.67	peak
2	22906.000	39.08	3.69	42.77	54.00	-11.23	AVG



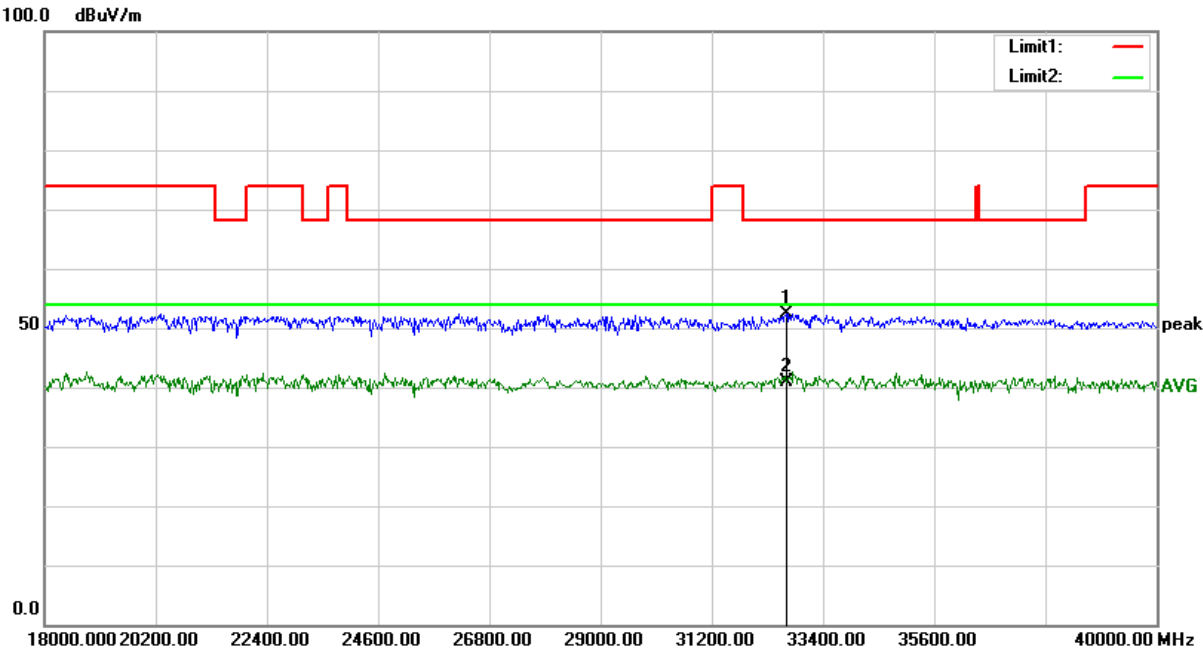
Middle Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1132.500	48.83	-1.70	74.0	-25.17	Peak	247.60	Horizontal	Pass
1**	1132.500	33.73	-1.70	54.0	-20.27	AV	247.60	Horizontal	Pass
2	2863.000	50.88	4.97	74.0	-23.12	Peak	108.10	Horizontal	Pass
2**	2863.000	39.54	4.97	54.0	-14.46	AV	108.10	Horizontal	Pass
3	6995.000	53.29	1.28	68.2	-14.91	Peak	140.80	Horizontal	Pass
3**	6995.000	42.90	1.28	54.0	-11.10	AV	140.80	Horizontal	Pass
4	11182.750	54.82	2.53	74.0	-19.18	Peak	335.40	Horizontal	Pass
4**	11182.750	44.64	2.53	54.0	-9.36	AV	335.40	Horizontal	Pass
5	14557.000	58.35	6.30	68.2	-9.85	Peak	238.00	Horizontal	Pass
5**	14557.000	46.83	6.30	54.0	-7.17	AV	238.00	Horizontal	Pass
6	17917.499	58.25	7.11	74.0	-15.75	Peak	267.70	Horizontal	Pass
6**	17917.499	48.40	7.11	54.0	-5.60	AV	267.70	Horizontal	Pass



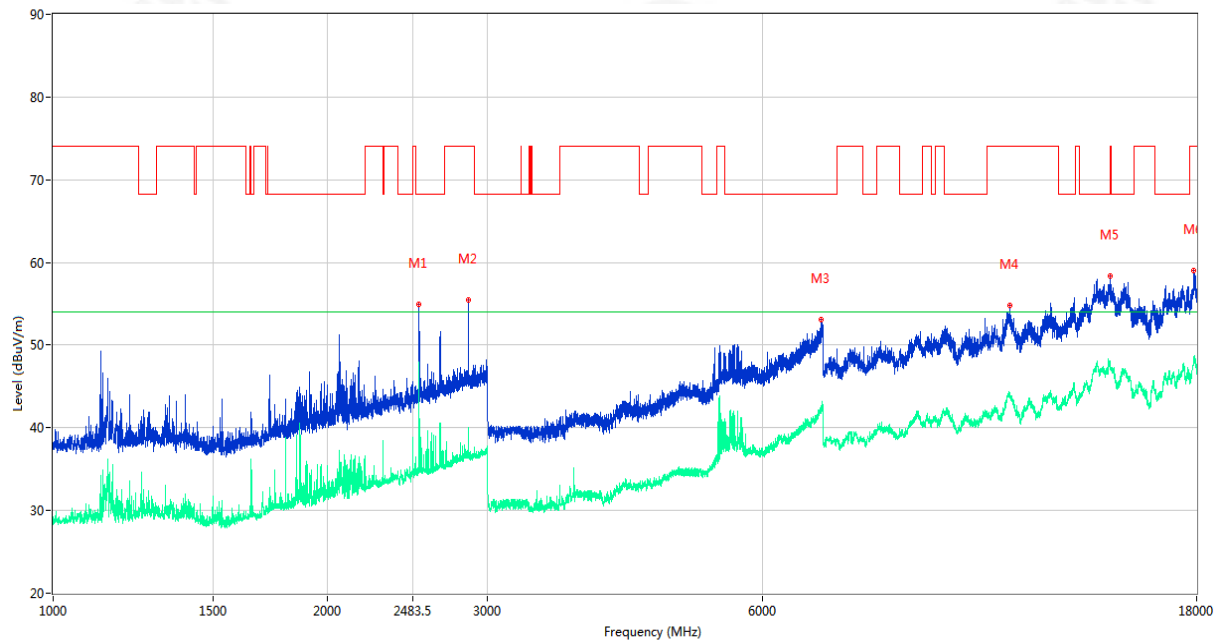
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32674.000	43.35	9.12	52.47	68.20	-15.73	peak
2	32674.000	31.68	9.12	40.80	54.00	-13.20	AVG



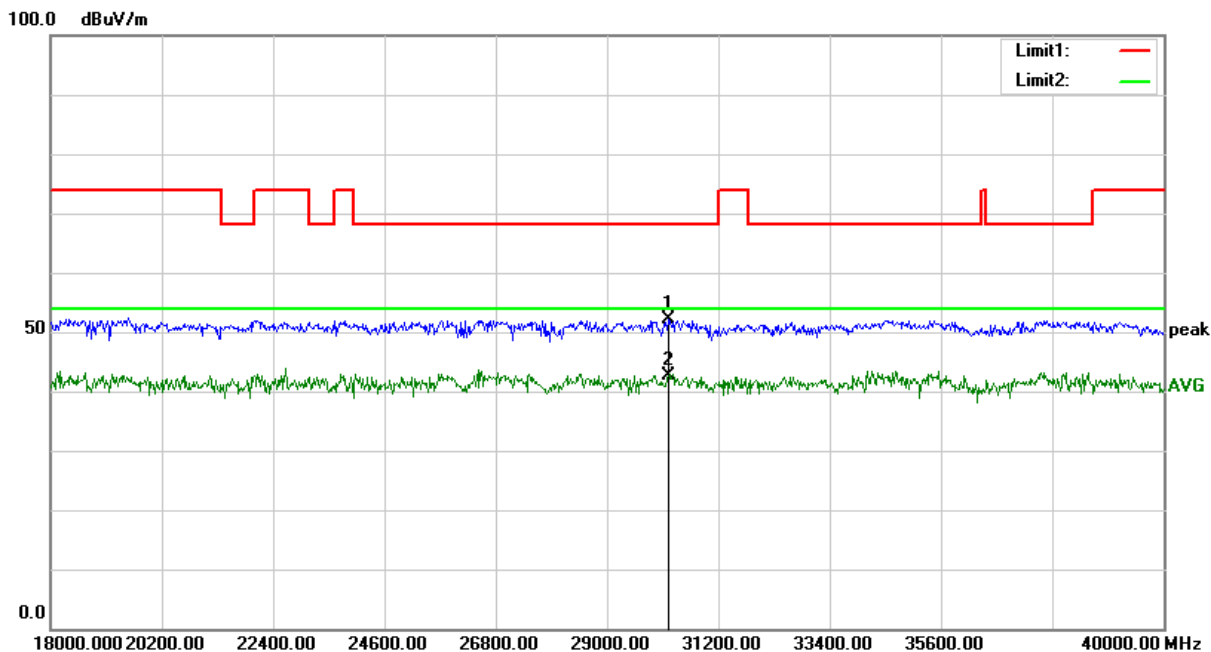
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2521.500	54.90	3.32	68.2	-13.30	Peak	285.10	Vertical	Pass
1**	2521.500	47.99	3.32	54.0	-6.01	AV	285.10	Vertical	Pass
2	2859.000	55.50	4.98	74.0	-18.50	Peak	181.70	Vertical	Pass
2**	2859.000	40.07	4.98	54.0	-13.93	AV	181.70	Vertical	Pass
3	6970.000	53.05	1.08	68.2	-15.15	Peak	288.60	Vertical	Pass
3**	6970.000	42.27	1.08	54.0	-11.73	AV	288.60	Vertical	Pass
4	11213.000	54.77	2.58	74.0	-19.23	Peak	137.20	Vertical	Pass
4**	11213.000	44.17	2.58	54.0	-9.83	AV	137.20	Vertical	Pass
5	14466.250	58.34	6.52	68.2	-9.86	Peak	0.90	Vertical	Pass
5**	14466.250	47.15	6.52	54.0	-6.85	AV	0.90	Vertical	Pass
6	17878.999	58.98	7.06	74.0	-15.02	Peak	203.40	Vertical	Pass
6**	17878.999	48.30	7.06	54.0	-5.70	AV	203.40	Vertical	Pass



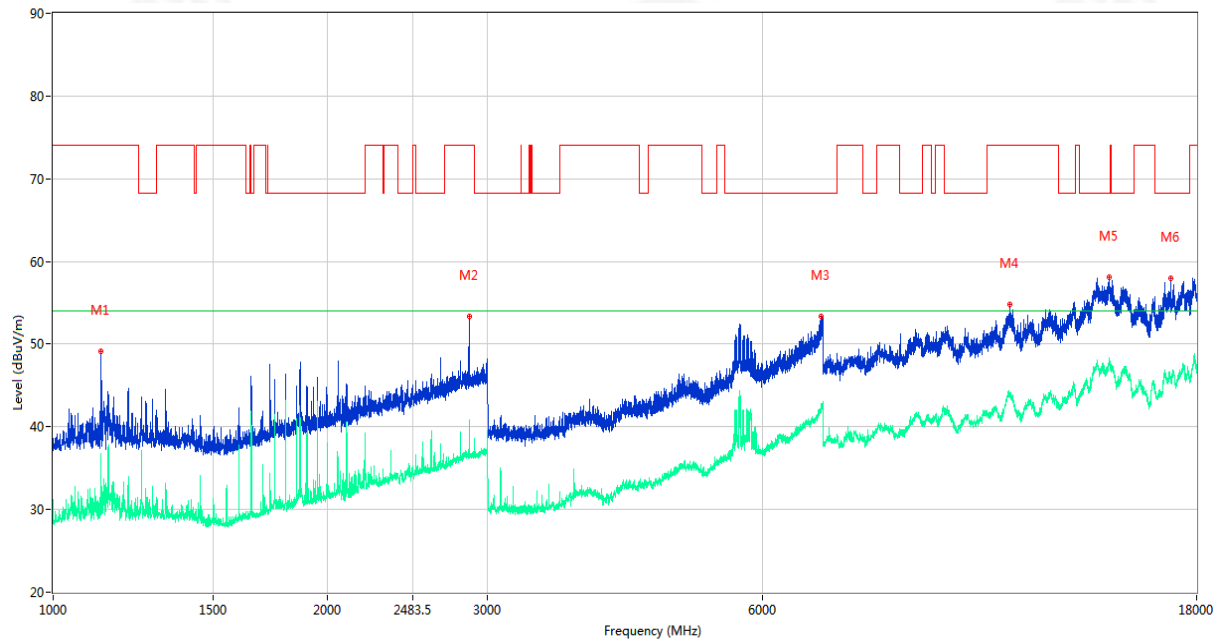
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30210.000	43.14	8.98	52.12	68.20	-16.08	peak
2	30210.000	33.54	8.98	42.52	54.00	-11.48	AVG



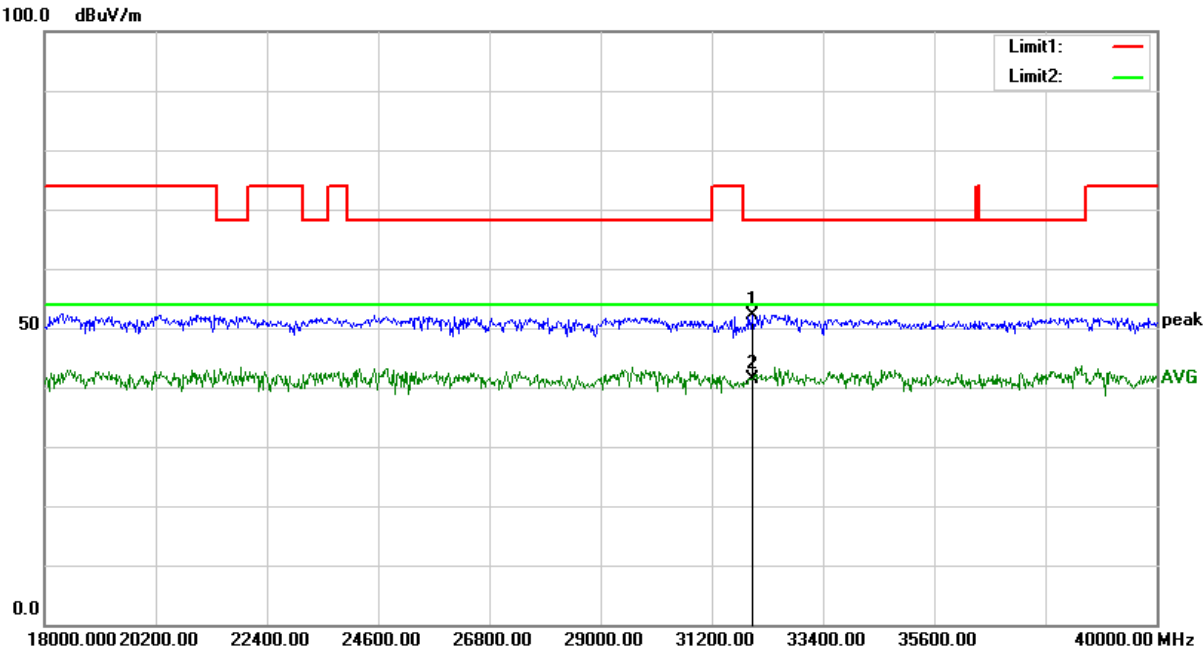
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1128.500	49.10	-1.71	74.0	-24.90	Peak	182.20	Horizontal	Pass
1**	1128.500	36.73	-1.71	54.0	-17.27	AV	182.20	Horizontal	Pass
2	2865.500	53.42	4.97	74.0	-20.58	Peak	114.10	Horizontal	Pass
2**	2865.500	40.82	4.97	54.0	-13.18	AV	114.10	Horizontal	Pass
3	6958.000	53.32	0.98	68.2	-14.88	Peak	134.10	Horizontal	Pass
3**	6958.000	41.88	0.98	54.0	-12.12	AV	134.10	Horizontal	Pass
4	11232.250	54.76	2.51	74.0	-19.24	Peak	183.50	Horizontal	Pass
4**	11232.250	43.91	2.51	54.0	-10.09	AV	183.50	Horizontal	Pass
5	14447.000	58.11	6.66	68.2	-10.09	Peak	89.40	Horizontal	Pass
5**	14447.000	47.40	6.66	54.0	-6.60	AV	89.40	Horizontal	Pass
6	16861.500	57.93	4.70	68.2	-10.27	Peak	134.40	Horizontal	Pass
6**	16861.500	45.64	4.70	54.0	-8.36	AV	134.40	Horizontal	Pass



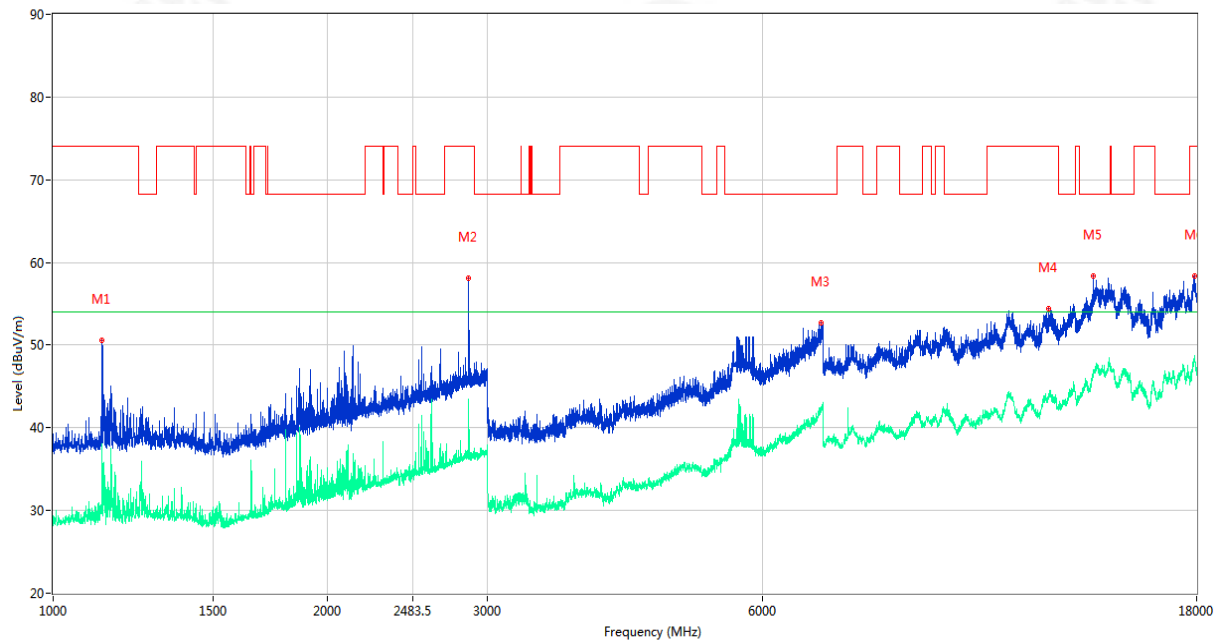
18GHz-40GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32014.000	43.00	9.24	52.24	68.20	-15.96	peak
2	32014.000	32.17	9.24	41.41	54.00	-12.59	AVG



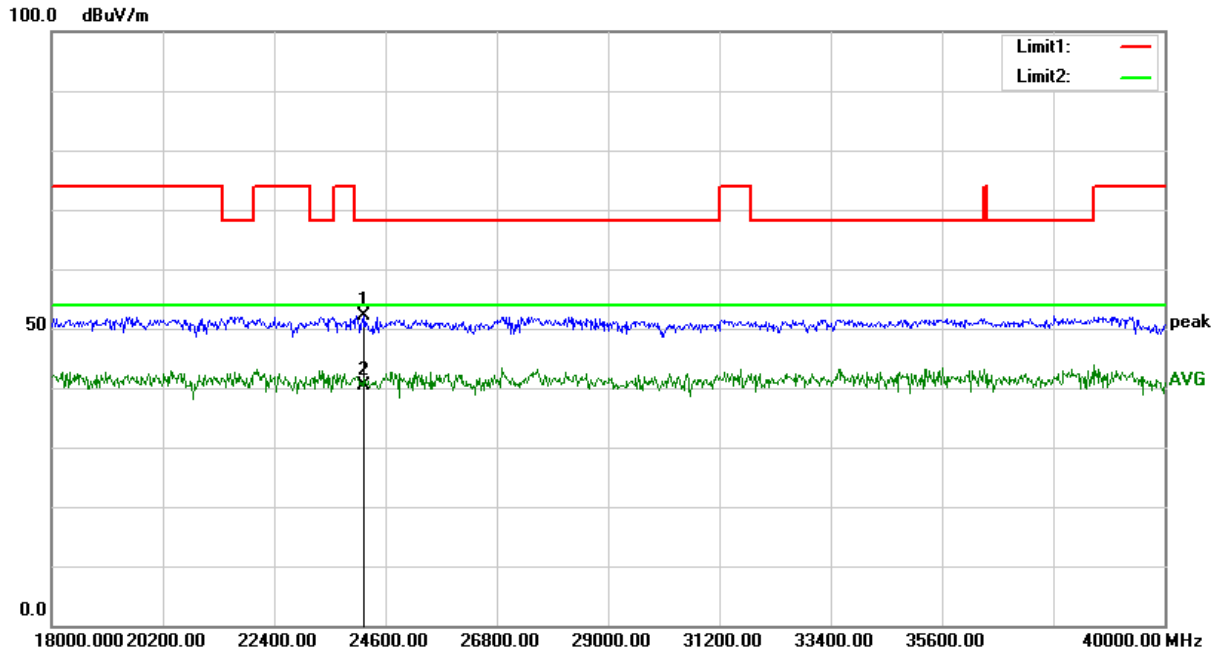
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.500	50.55	-1.71	74.0	-23.45	Peak	77.20	Vertical	Pass
1**	1130.500	38.04	-1.71	54.0	-15.96	AV	77.20	Vertical	Pass
2	2860.000	58.06	4.98	74.0	-15.94	Peak	239.80	Vertical	Pass
2**	2860.000	43.44	4.98	54.0	-10.56	AV	239.80	Vertical	Pass
3	6971.000	52.66	1.09	68.2	-15.54	Peak	49.10	Vertical	Pass
3**	6971.000	42.21	1.09	54.0	-11.79	AV	49.10	Vertical	Pass
4	12381.750	54.41	3.15	74.0	-19.59	Peak	270.80	Vertical	Pass
4**	12381.750	44.11	3.15	54.0	-9.89	AV	270.80	Vertical	Pass
5	13872.250	58.35	6.79	68.2	-9.85	Peak	162.60	Vertical	Pass
5**	13872.250	47.01	6.79	54.0	-6.99	AV	162.60	Vertical	Pass
6	17909.250	58.42	7.17	74.0	-15.58	Peak	103.80	Vertical	Pass
6**	17909.250	48.62	7.17	54.0	-5.38	AV	103.80	Vertical	Pass



18GHz-40GHz



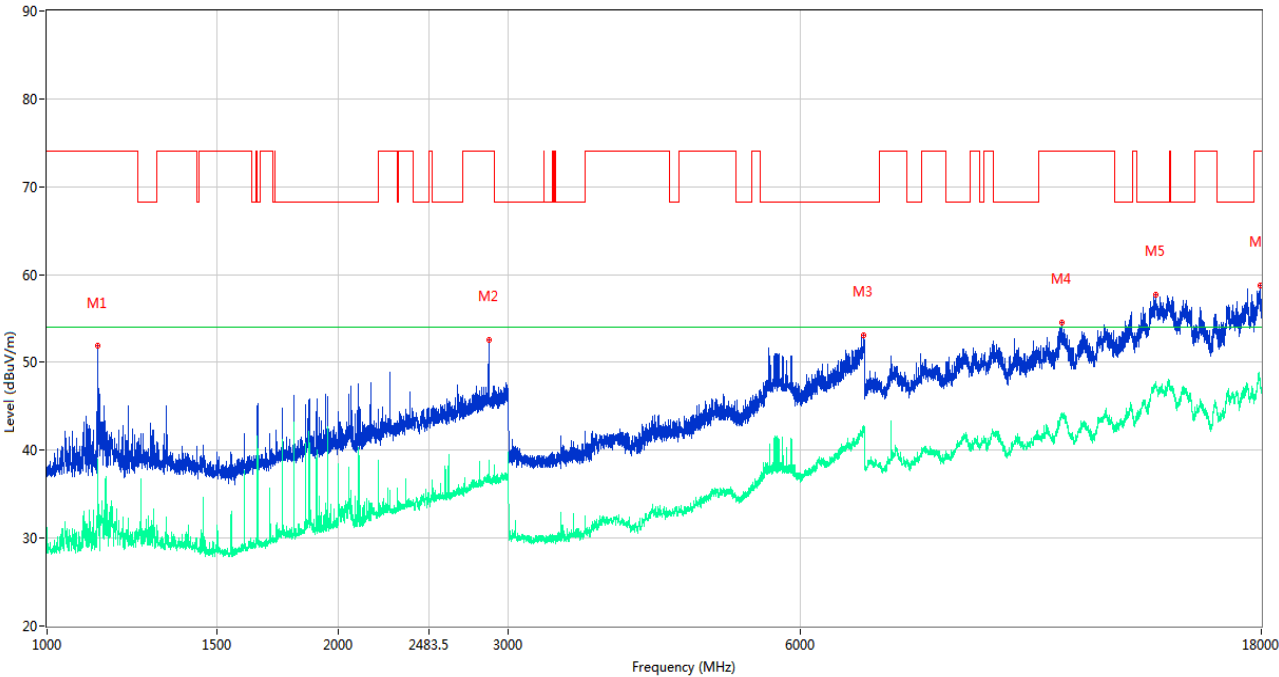
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24182.000	47.41	4.67	52.08	68.20	-16.12	peak
2	24182.000	35.66	4.67	40.33	54.00	-13.67	AVG

Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- All 40MHz Bandwidth of 5G RLAN (U-NII-2C)802.11n40/ac40/ax40 have been tested for above 1GHz test, only the worst case 802.11n40 MIMO was recorded



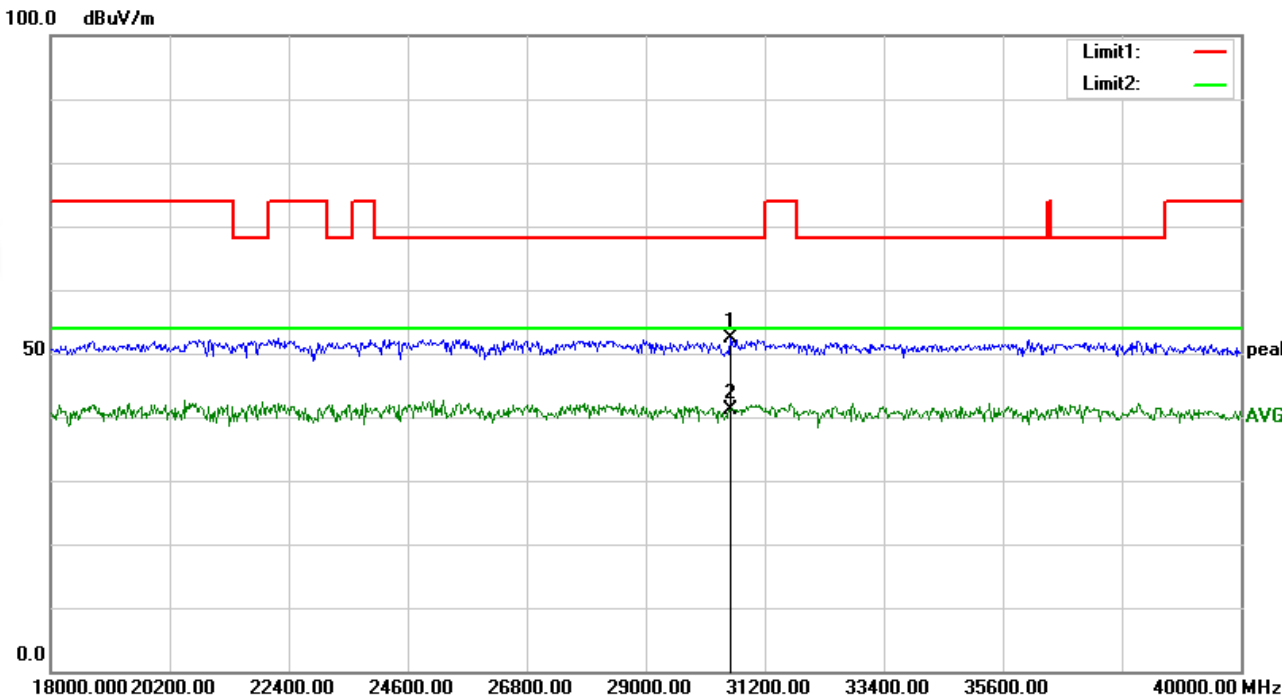
802.11 ax80-MIMO
Low Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	51.84	-1.71	74.0	-22.16	Peak	116.30	Horizontal	Pass
1**	1129.000	39.04	-1.71	54.0	-14.96	AV	116.30	Horizontal	Pass
2	2864.500	52.51	4.97	74.0	-21.49	Peak	130.80	Horizontal	Pass
2**	2864.500	38.79	4.97	54.0	-15.21	AV	130.80	Horizontal	Pass
3	6984.000	53.05	1.19	68.2	-15.15	Peak	195.50	Horizontal	Pass
3**	6984.000	42.25	1.19	54.0	-11.75	AV	195.50	Horizontal	Pass
4	11199.250	54.52	2.62	74.0	-19.48	Peak	36.70	Horizontal	Pass
4**	11199.250	44.17	2.62	54.0	-9.83	AV	36.70	Horizontal	Pass
5	14001.500	57.67	8.43	68.2	-10.53	Peak	30.70	Horizontal	Pass
5**	14001.500	47.54	8.43	54.0	-6.46	AV	30.70	Horizontal	Pass
6	17934.000	58.80	6.98	74.0	-15.20	Peak	34.50	Horizontal	Pass
6**	17934.000	48.08	6.98	54.0	-5.92	AV	34.50	Horizontal	Pass



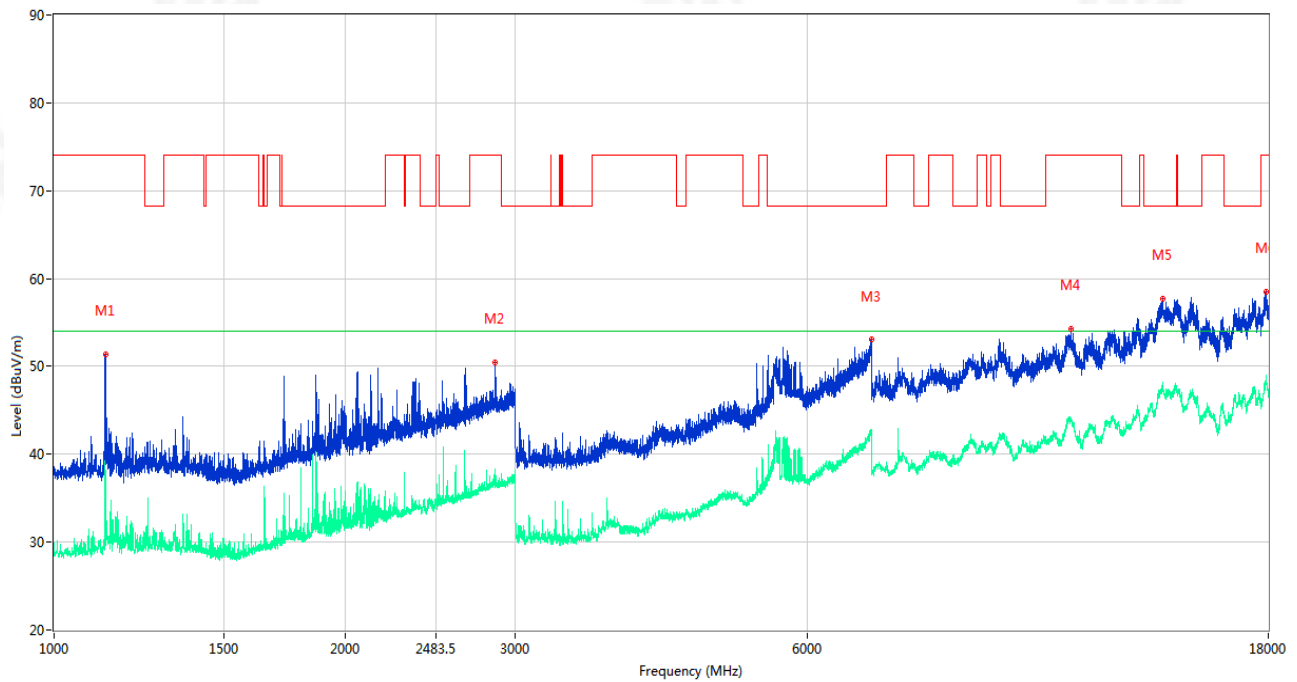
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30562.000	43.49	8.90	52.39	68.20	-15.81	peak
2	30562.000	32.30	8.90	41.20	54.00	-12.80	AVG



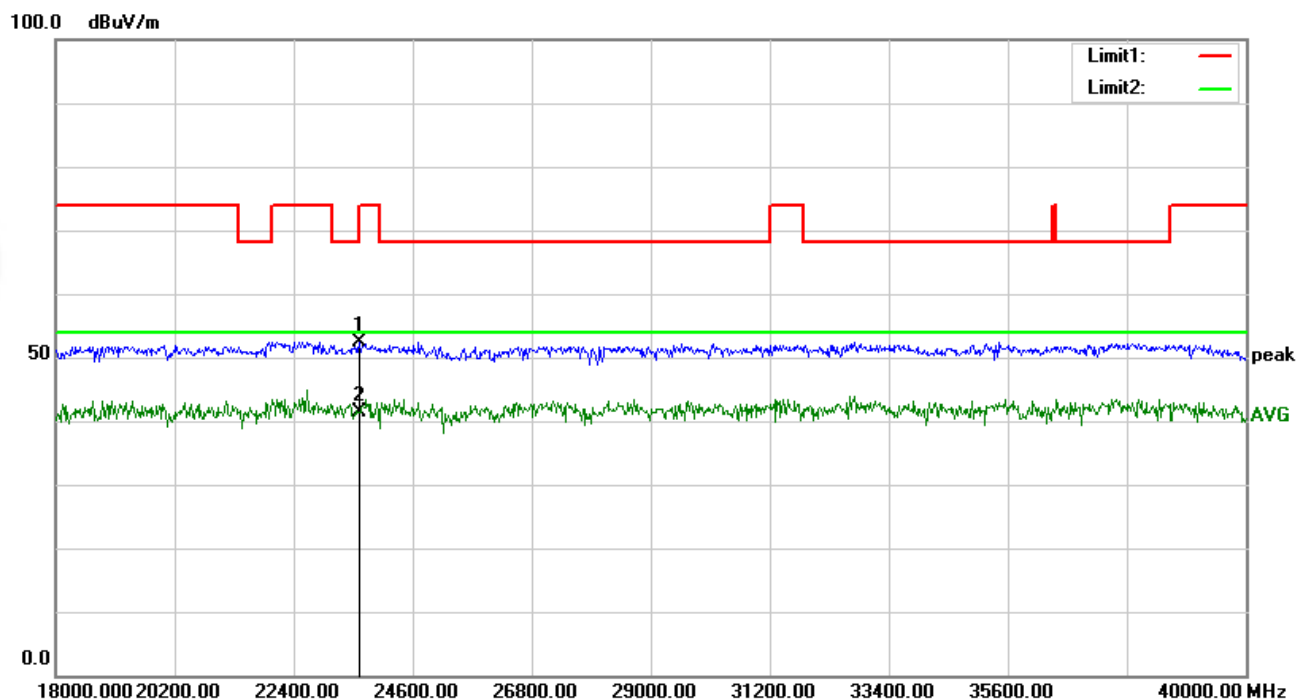
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.000	51.39	-1.71	74.0	-22.61	Peak	146.70	Vertical	Pass
1**	1130.000	38.18	-1.71	54.0	-15.82	AV	146.70	Vertical	Pass
2	2860.000	50.45	4.98	74.0	-23.55	Peak	153.40	Vertical	Pass
2**	2860.000	38.39	4.98	54.0	-15.61	AV	153.40	Vertical	Pass
3	6997.000	53.03	1.30	68.2	-15.17	Peak	242.50	Vertical	Pass
3**	6997.000	42.58	1.30	54.0	-11.42	AV	242.50	Vertical	Pass
4	11268.000	54.23	2.39	74.0	-19.77	Peak	323.50	Vertical	Pass
4**	11268.000	43.80	2.39	54.0	-10.20	AV	323.50	Vertical	Pass
5	13998.750	57.71	8.43	68.2	-10.49	Peak	177.40	Vertical	Pass
5**	13998.750	47.84	8.43	54.0	-6.16	AV	177.40	Vertical	Pass
6	17890.001	58.51	7.15	74.0	-15.49	Peak	104.50	Vertical	Pass
6**	17890.001	48.39	7.15	54.0	-5.61	AV	104.50	Vertical	Pass



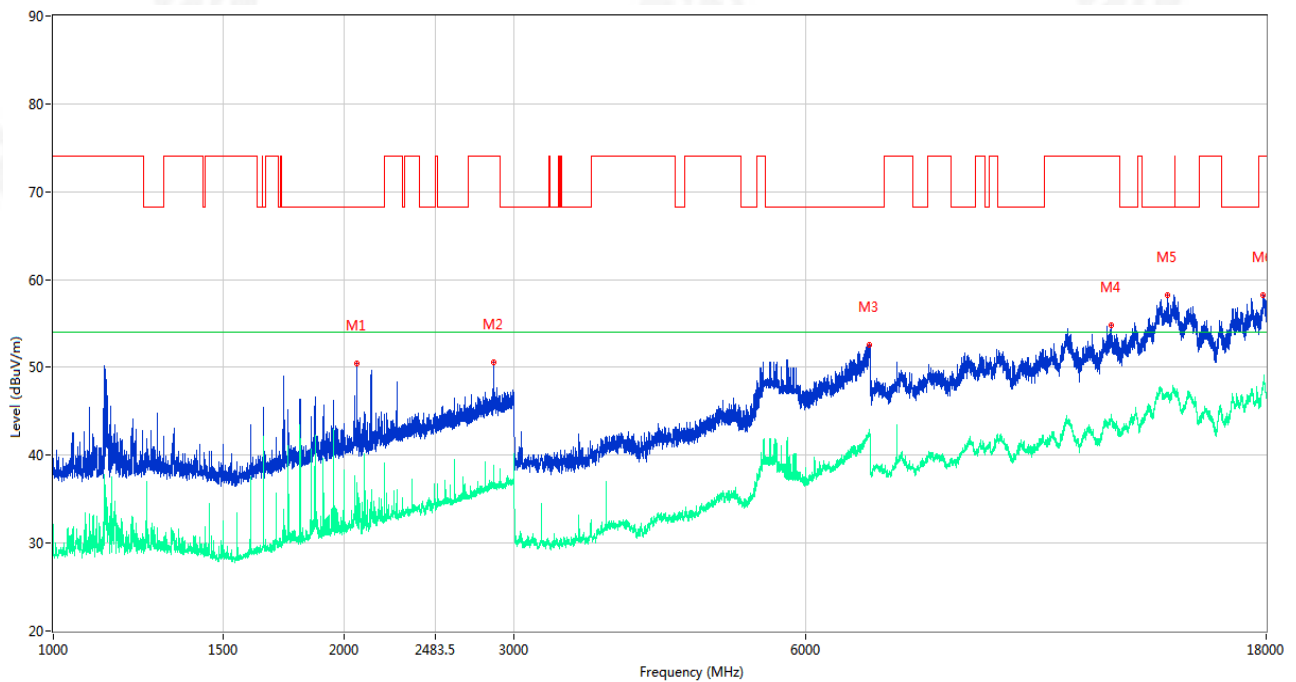
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23610.000	48.25	4.24	52.49	74.00	-21.51	peak
2	23610.000	37.22	4.24	41.46	54.00	-12.54	AVG



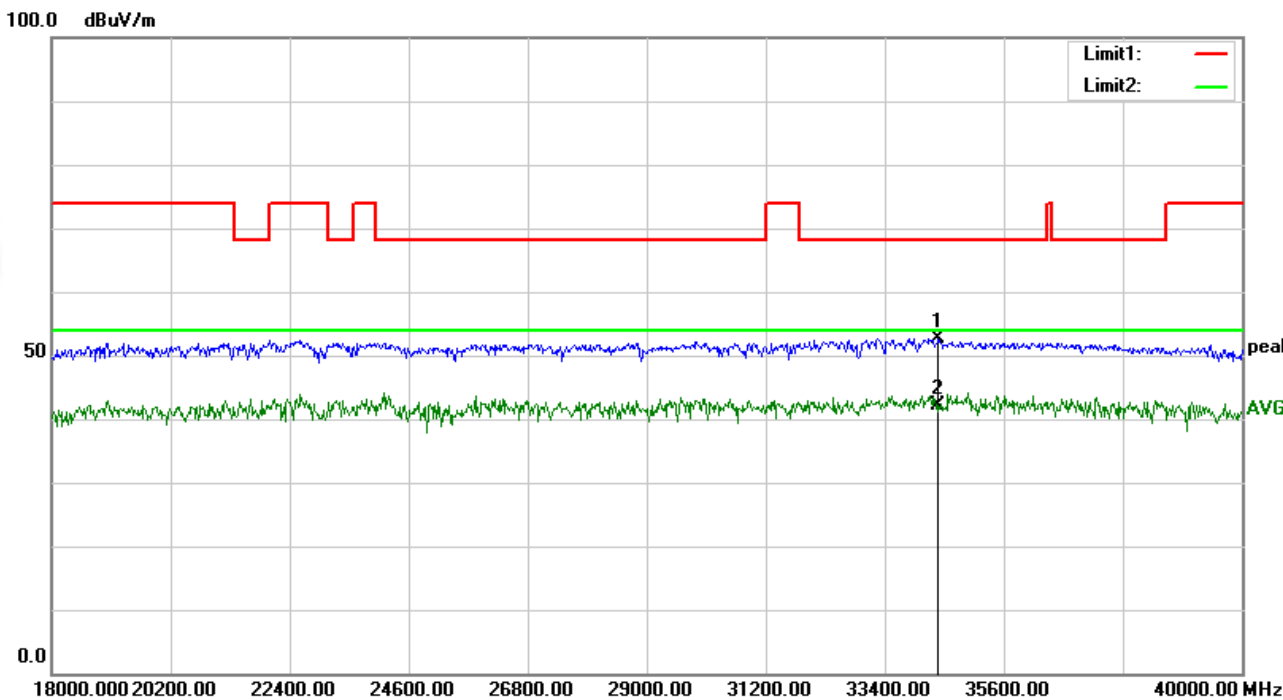
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2062.500	50.44	0.83	68.2	-17.76	Peak	112.20	Horizontal	Pass
1**	2062.500	36.92	0.83	54.0	-17.08	AV	112.20	Horizontal	Pass
2	2855.000	50.54	4.99	74.0	-23.46	Peak	124.50	Horizontal	Pass
2**	2855.000	38.79	4.99	54.0	-15.21	AV	124.50	Horizontal	Pass
3	6999.000	52.56	1.31	68.2	-15.64	Peak	100.20	Horizontal	Pass
3**	6999.000	42.54	1.31	54.0	-11.46	AV	100.20	Horizontal	Pass
4	12436.750	54.83	2.81	74.0	-19.17	Peak	119.60	Horizontal	Pass
4**	12436.750	44.29	2.81	54.0	-9.71	AV	119.60	Horizontal	Pass
5	14224.250	58.29	6.94	68.2	-9.91	Peak	0.00	Horizontal	Pass
5**	14224.250	47.15	6.94	54.0	-6.85	AV	0.00	Horizontal	Pass
6	17870.750	58.22	6.99	74.0	-15.78	Peak	186.20	Horizontal	Pass
6**	17870.750	47.97	6.99	54.0	-6.03	AV	186.20	Horizontal	Pass



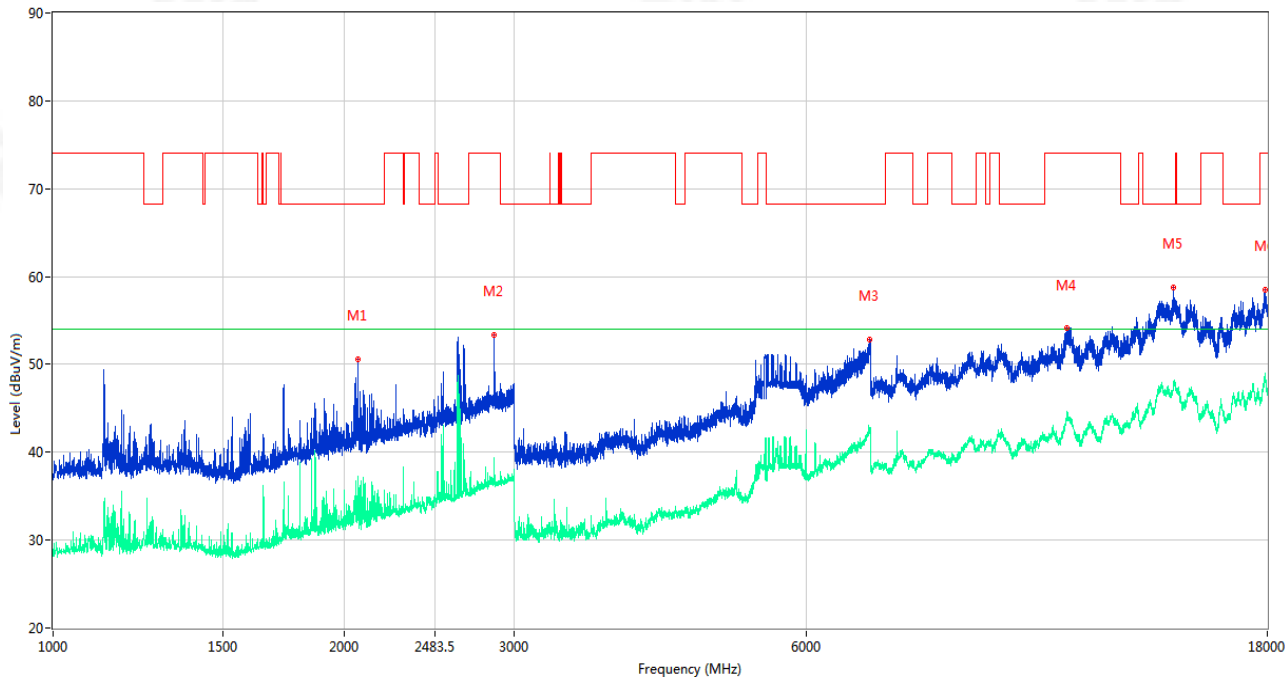
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34390.000	43.16	9.53	52.69	68.20	-15.51	peak
2	34390.000	32.48	9.53	42.01	54.00	-11.99	AVG



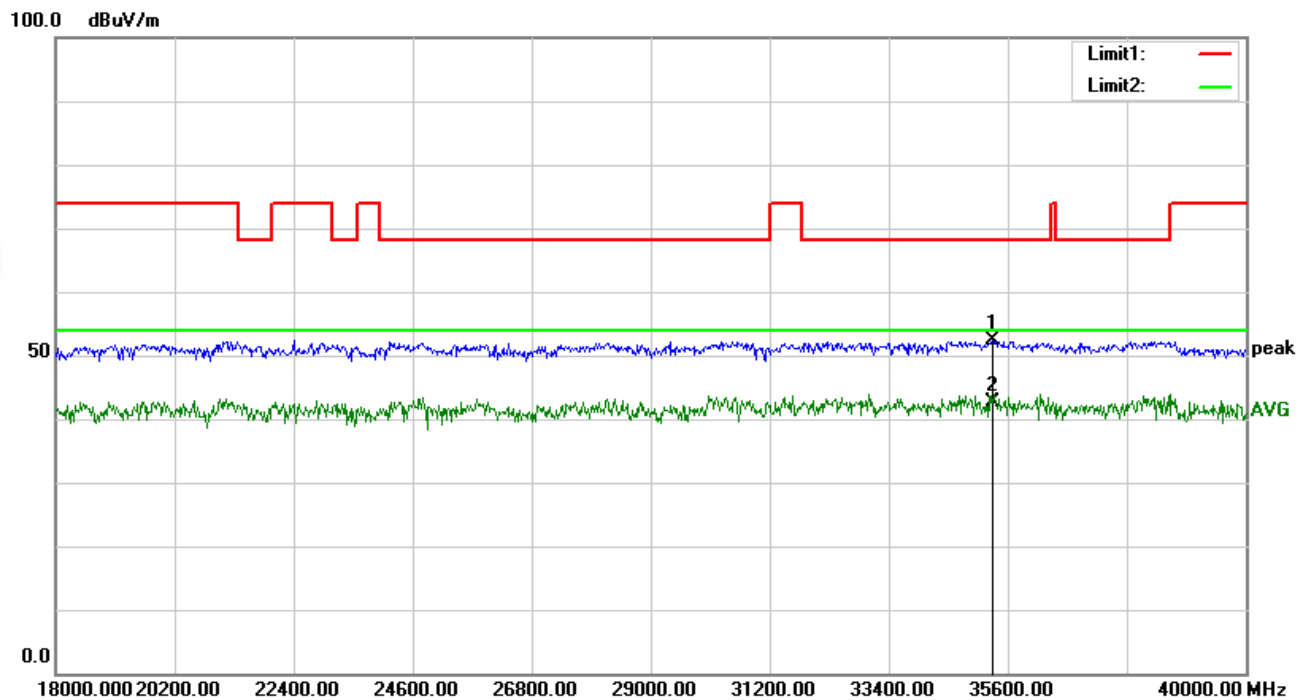
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2066.000	50.62	0.83	68.2	-17.58	Peak	181.50	Vertical	Pass
1**	2066.000	37.32	0.83	54.0	-16.68	AV	181.50	Vertical	Pass
2	2855.500	53.31	4.98	74.0	-20.69	Peak	133.90	Vertical	Pass
2**	2855.500	39.39	4.98	54.0	-14.61	AV	133.90	Vertical	Pass
3	6993.000	52.89	1.26	68.2	-15.31	Peak	6.30	Vertical	Pass
3**	6993.000	42.55	1.26	54.0	-11.45	AV	6.30	Vertical	Pass
4	11166.250	54.08	2.44	74.0	-19.92	Peak	359.20	Vertical	Pass
4**	11166.250	43.77	2.44	54.0	-10.23	AV	359.20	Vertical	Pass
5	14405.750	58.73	6.95	68.2	-9.47	Peak	182.00	Vertical	Pass
5**	14405.750	47.68	6.95	54.0	-6.32	AV	182.00	Vertical	Pass
6	17920.250	58.47	7.08	74.0	-15.53	Peak	201.40	Vertical	Pass
6**	17920.250	48.33	7.08	54.0	-5.67	AV	201.40	Vertical	Pass



18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35314.000	42.65	9.74	52.39	68.20	-15.81	peak
2	35314.000	32.89	9.74	42.63	54.00	-11.37	AVG

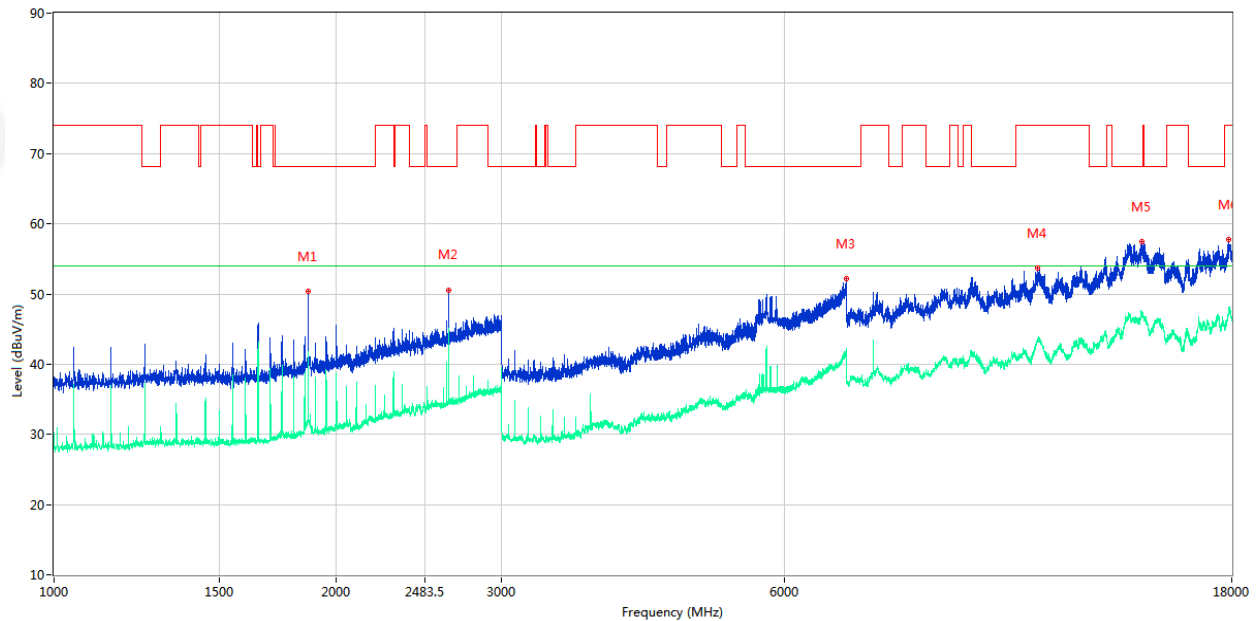
Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- 3) All 80MHz Bandwidth of 5G RLAN (U-NII-2C)802.11ac80/ax80 have been tested for above 1GHz test, only the worst case 802.11ax80 MIMO was recorded



802.11n20-MIMO
Low Channel
Horizontal
1GHz-18GHz

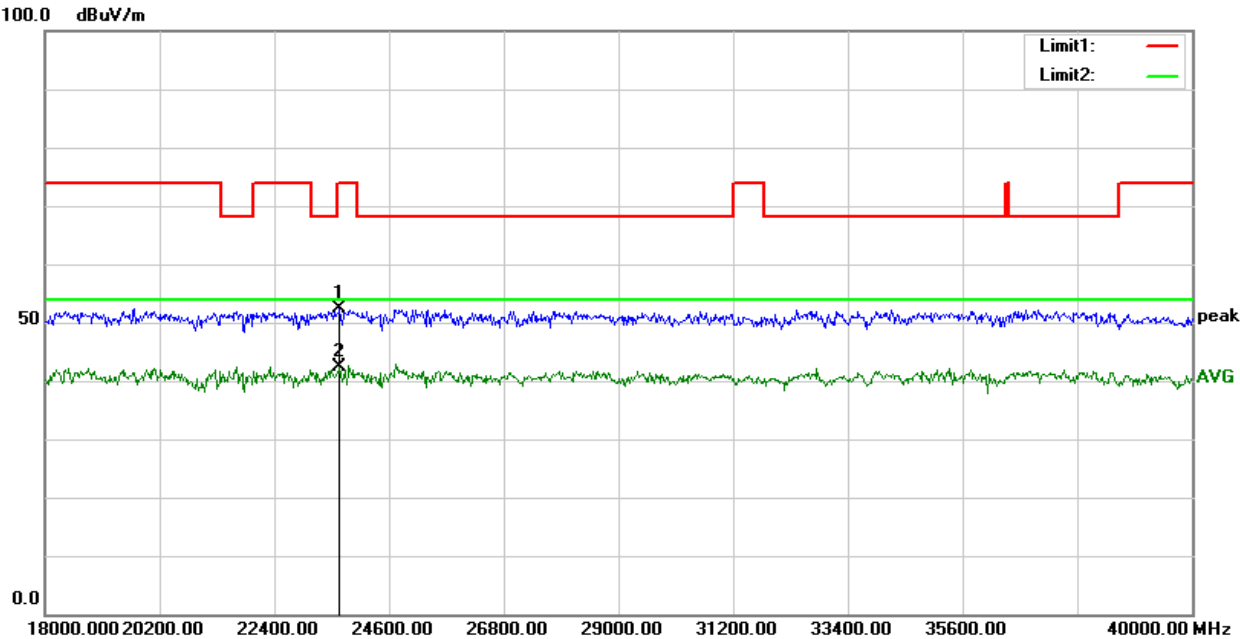
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1865.000	50.31	-0.09	68.2	-17.89	Peak	217.60	Horizontal	Pass
1**	1865.000	37.04	-0.09	54.0	-16.96	AV	217.60	Horizontal	Pass
2	2636.000	50.59	3.83	68.2	-17.61	Peak	360.00	Horizontal	Pass
2**	2636.000	41.97	3.83	54.0	-12.03	AV	360.00	Horizontal	Pass
3	6999.000	52.22	1.31	68.2	-15.98	Peak	226.40	Horizontal	Pass
3**	6999.000	41.96	1.31	54.0	-12.04	AV	226.40	Horizontal	Pass
4	11171.750	53.66	2.47	74.0	-20.34	Peak	78.50	Horizontal	Pass
4**	11171.750	43.10	2.47	54.0	-10.90	AV	78.50	Horizontal	Pass
5	14447.000	57.42	6.66	68.2	-10.78	Peak	229.40	Horizontal	Pass
5**	14447.000	46.82	6.66	54.0	-7.18	AV	229.40	Horizontal	Pass
6	17848.750	57.76	6.80	74.0	-16.24	Peak	61.40	Horizontal	Pass
6**	17848.750	47.14	6.80	54.0	-6.86	AV	61.40	Horizontal	Pass



18GHz-40GHz

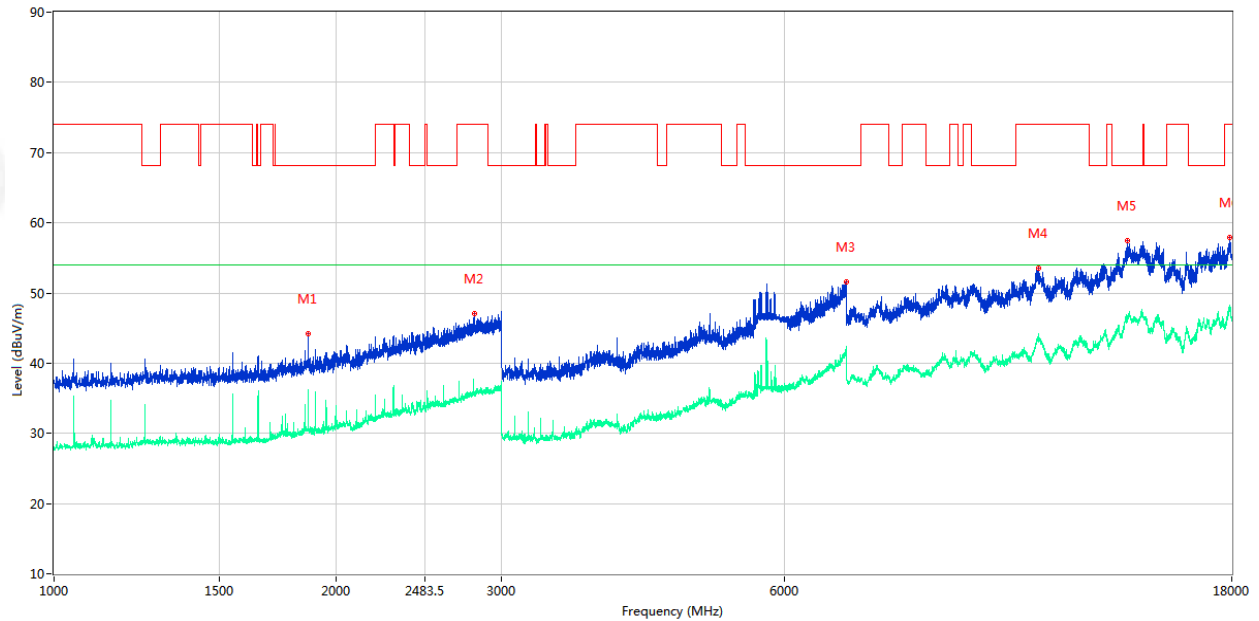


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	23654.000	48.16	4.28	52.44	74.00	-21.56	peak
2	23654.000	38.21	4.28	42.49	54.00	-11.51	AVG



Vertical 1GHz-18GHz

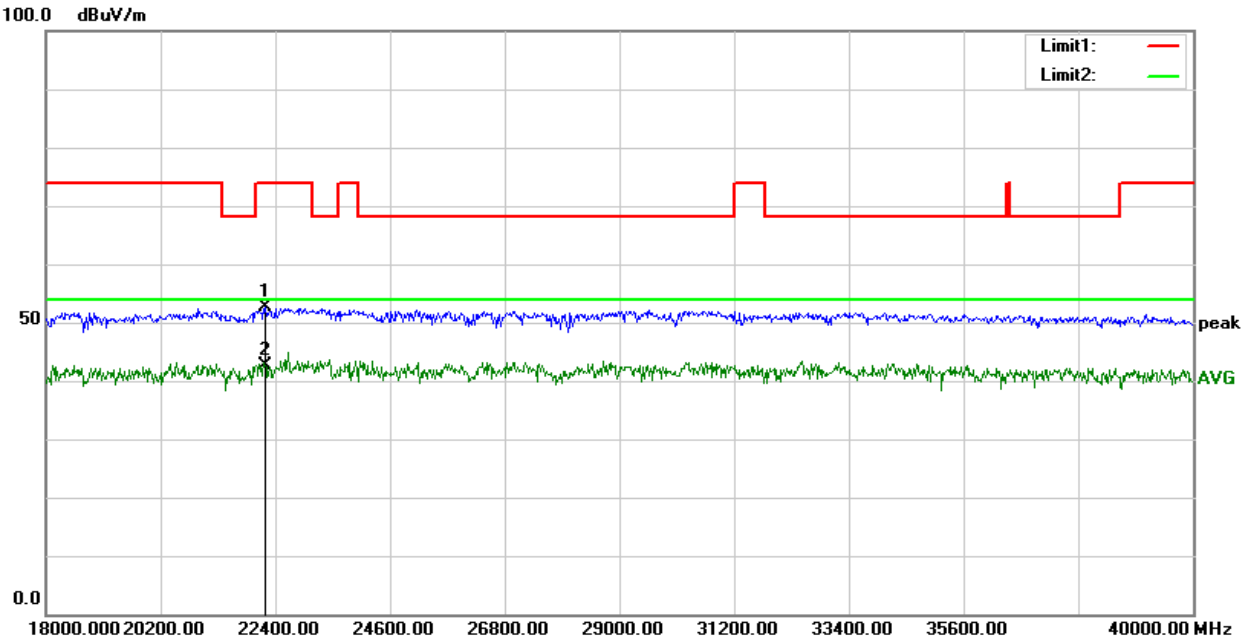
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1867.000	44.15	-0.09	68.2	-24.05	Peak	319.10	Vertical	Pass
1**	1867.000	31.94	-0.09	54.0	-22.06	AV	319.10	Vertical	Pass
2	2806.000	47.00	4.78	74.0	-27.00	Peak	260.30	Vertical	Pass
2**	2806.000	35.51	4.78	54.0	-18.49	AV	260.30	Vertical	Pass
3	6987.000	51.60	1.21	68.2	-16.60	Peak	150.80	Vertical	Pass
3**	6987.000	41.49	1.21	54.0	-12.51	AV	150.80	Vertical	Pass
4	11193.750	53.48	2.59	74.0	-20.52	Peak	73.20	Vertical	Pass
4**	11193.750	43.21	2.59	54.0	-10.79	AV	73.20	Vertical	Pass
5	13927.250	57.42	7.54	68.2	-10.78	Peak	360.20	Vertical	Pass
5**	13927.250	46.52	7.54	54.0	-7.48	AV	360.20	Vertical	Pass
6	17898.250	57.87	7.22	74.0	-16.13	Peak	124.20	Vertical	Pass
6**	17898.250	48.25	7.22	54.0	-5.75	AV	124.20	Vertical	Pass



18GHz-40GHz

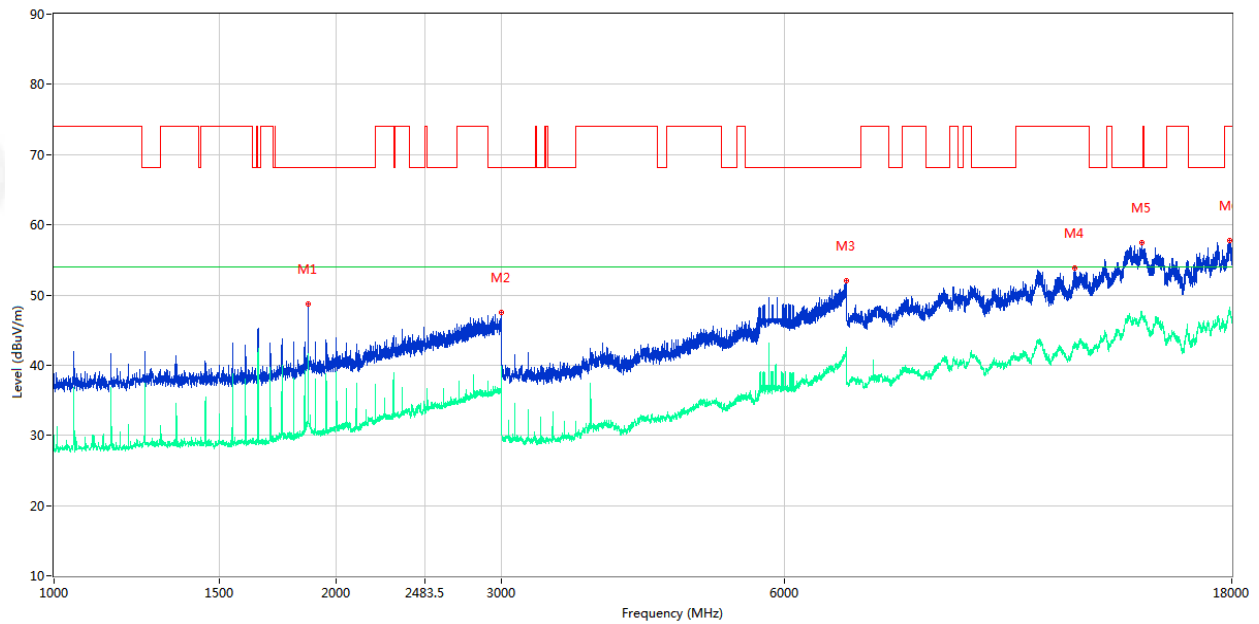


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22202.000	49.12	3.62	52.74	74.00	-21.26	peak
2	22202.000	38.89	3.62	42.51	54.00	-11.49	AVG



Mid Channel
Horizontal
1GHz-18GHz

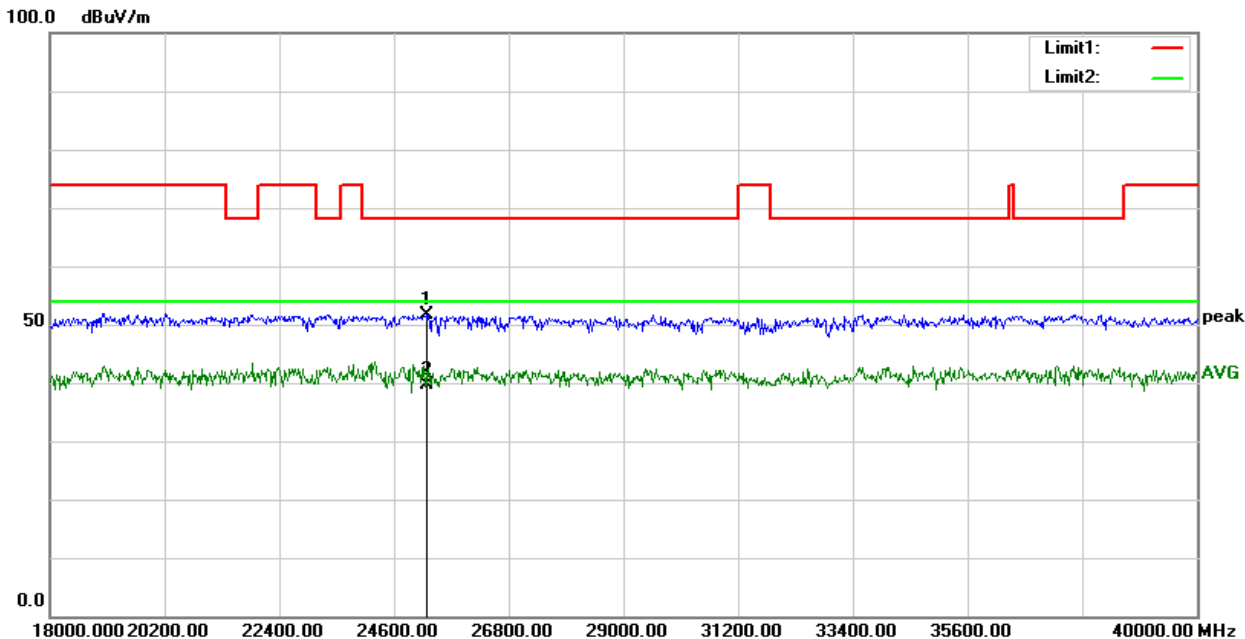
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1865.000	48.73	-0.09	68.2	-19.47	Peak	155.30	Horizontal	Pass
1**	1865.000	36.38	-0.09	54.0	-17.62	AV	155.30	Horizontal	Pass
2	2999.500	47.52	5.46	68.2	-20.68	Peak	122.30	Horizontal	Pass
2**	2999.500	37.71	5.46	54.0	-16.29	AV	122.30	Horizontal	Pass
3	7000.000	52.01	1.32	68.2	-16.19	Peak	186.60	Horizontal	Pass
3**	7000.000	42.06	1.32	54.0	-11.94	AV	186.60	Horizontal	Pass
4	12236.000	53.77	2.84	74.0	-20.23	Peak	134.20	Horizontal	Pass
4**	12236.000	42.70	2.84	54.0	-11.30	AV	134.20	Horizontal	Pass
5	14438.750	57.48	6.71	68.2	-10.72	Peak	130.10	Horizontal	Pass
5**	14438.750	47.26	6.71	54.0	-6.74	AV	130.10	Horizontal	Pass
6	17892.749	57.73	7.18	74.0	-16.27	Peak	276.60	Horizontal	Pass
6**	17892.749	47.85	7.18	54.0	-6.15	AV	276.60	Horizontal	Pass



18GHz-40GHz

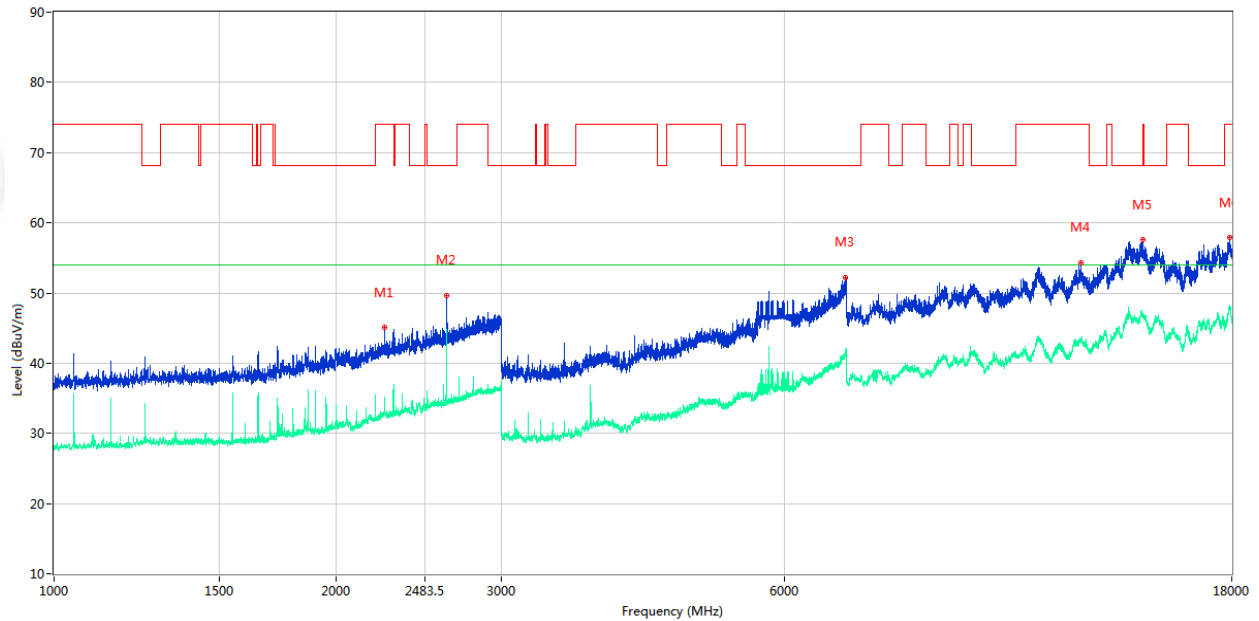


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	25238.000	46.25	5.47	51.72	68.20	-16.48	peak
2	25238.000	34.12	5.47	39.59	54.00	-14.41	AVG



Vertical 1GHz-18GHz

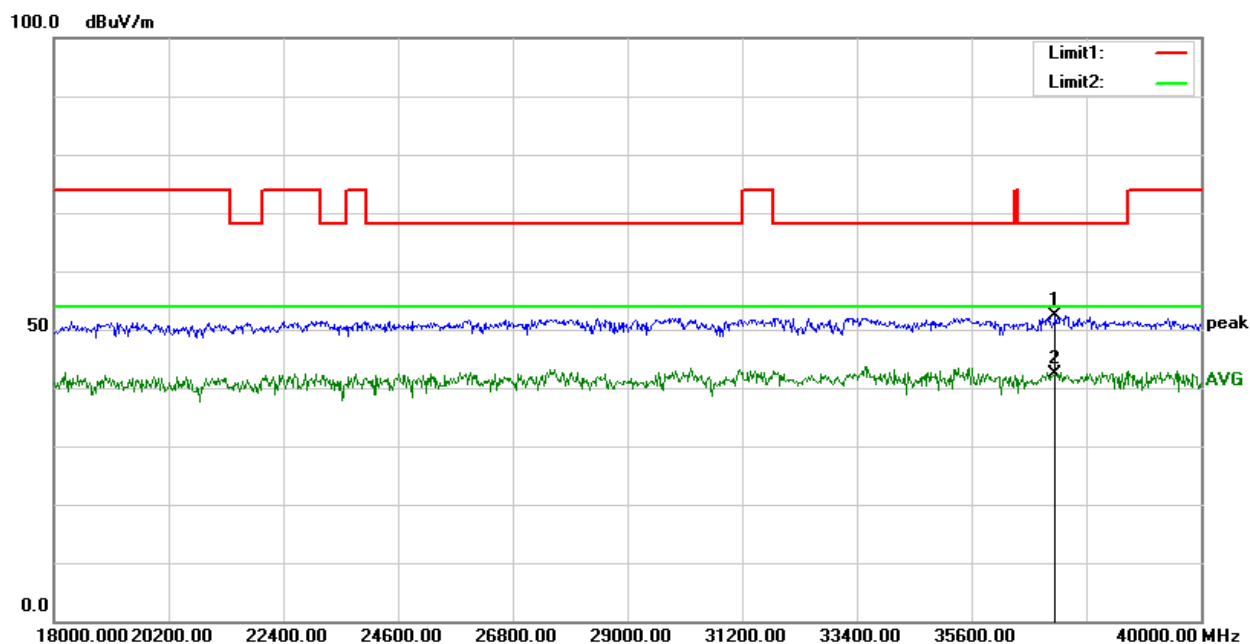
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2250.000	45.04	2.16	74.0	-28.96	Peak	5.20	Vertical	Pass
1**	2250.000	35.13	2.16	54.0	-18.87	AV	5.20	Vertical	Pass
2	2618.500	49.70	3.64	68.2	-18.50	Peak	5.20	Vertical	Pass
2**	2618.500	44.83	3.64	54.0	-9.17	AV	5.20	Vertical	Pass
3	6971.000	52.25	1.09	68.2	-15.95	Peak	360.00	Vertical	Pass
3**	6971.000	41.94	1.09	54.0	-12.06	AV	360.00	Vertical	Pass
4	12431.250	54.34	2.86	74.0	-19.66	Peak	346.20	Vertical	Pass
4**	12431.250	43.43	2.86	54.0	-10.57	AV	346.20	Vertical	Pass
5	14471.750	57.64	6.48	74.0	-16.36	Peak	58.30	Vertical	Pass
5**	14471.750	46.90	6.48	54.0	-7.10	AV	58.30	Vertical	Pass
6	17909.250	57.86	7.17	74.0	-16.14	Peak	305.70	Vertical	Pass
6**	17909.250	47.65	7.17	54.0	-6.35	AV	305.70	Vertical	Pass



18GHz-40GHz

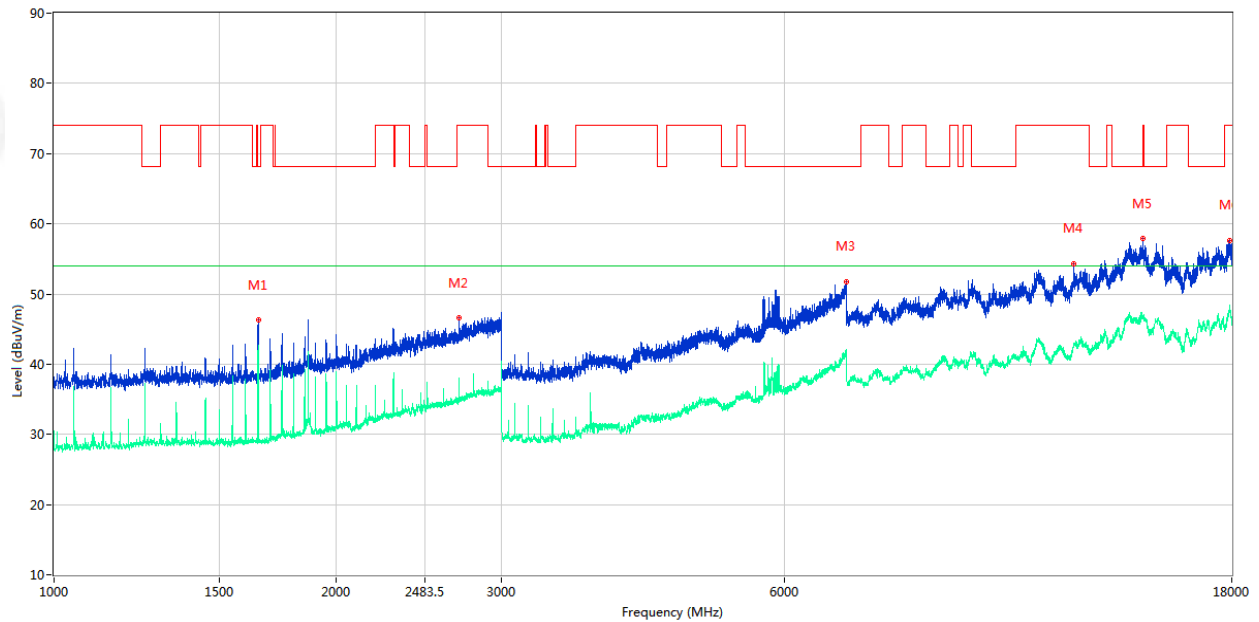


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37206.000	44.81	7.57	52.38	68.20	-15.82	peak
2	37206.000	34.83	7.57	42.40	54.00	-11.60	AVG



High Channel Horizontal 1GHz-18GHz

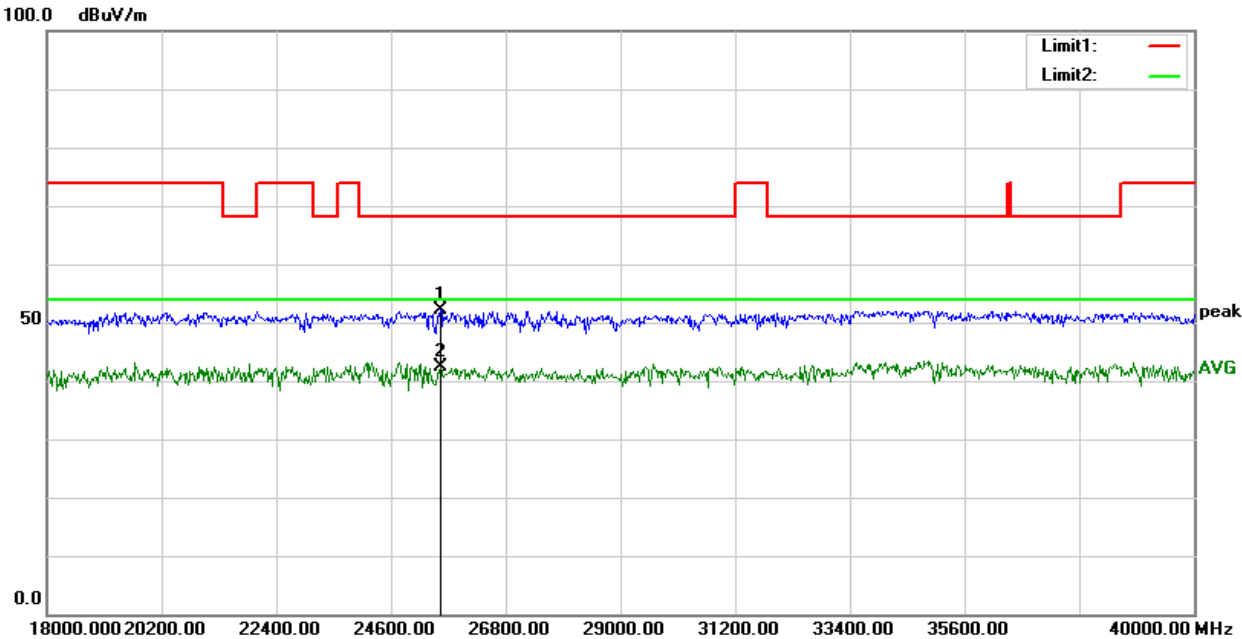
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1650.000	46.35	-0.97	68.2	-21.85	Peak	176.30	Horizontal	Pass
1**	1650.000	42.68	-0.97	54.0	-11.32	AV	176.30	Horizontal	Pass
2	2700.500	46.54	3.99	74.0	-27.46	Peak	264.10	Horizontal	Pass
2**	2700.500	37.30	3.99	54.0	-16.70	AV	264.10	Horizontal	Pass
3	7000.000	51.80	1.32	68.2	-16.40	Peak	91.10	Horizontal	Pass
3**	7000.000	41.90	1.32	54.0	-12.10	AV	91.10	Horizontal	Pass
4	12203.000	54.35	2.77	74.0	-19.65	Peak	26.70	Horizontal	Pass
4**	12203.000	42.85	2.77	54.0	-11.15	AV	26.70	Horizontal	Pass
5	14488.250	57.85	6.36	74.0	-16.15	Peak	43.40	Horizontal	Pass
5**	14488.250	46.85	6.36	54.0	-7.15	AV	43.40	Horizontal	Pass
6	17906.500	57.68	7.19	74.0	-16.32	Peak	360.00	Horizontal	Pass
6**	17906.500	47.68	7.19	54.0	-6.32	AV	360.00	Horizontal	Pass



18GHz-40GHz

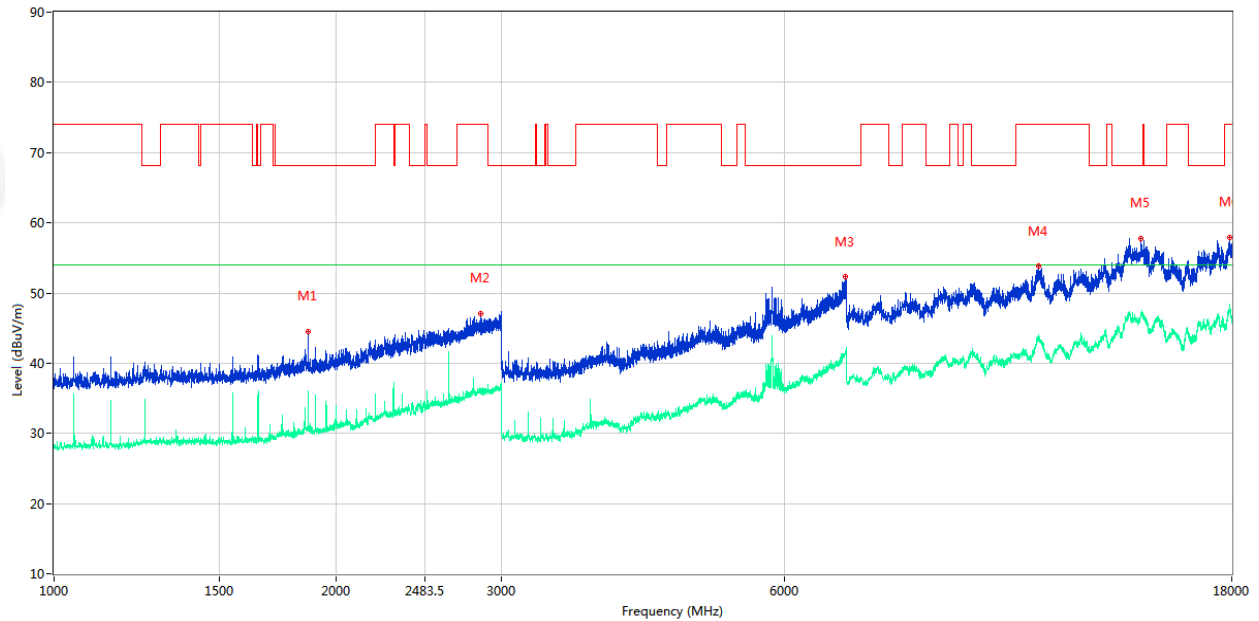


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	25546.000	46.35	5.67	52.02	68.20	-16.18	peak
2	25546.000	36.77	5.67	42.44	54.00	-11.56	AVG



Vertical 1GHz-18GHz

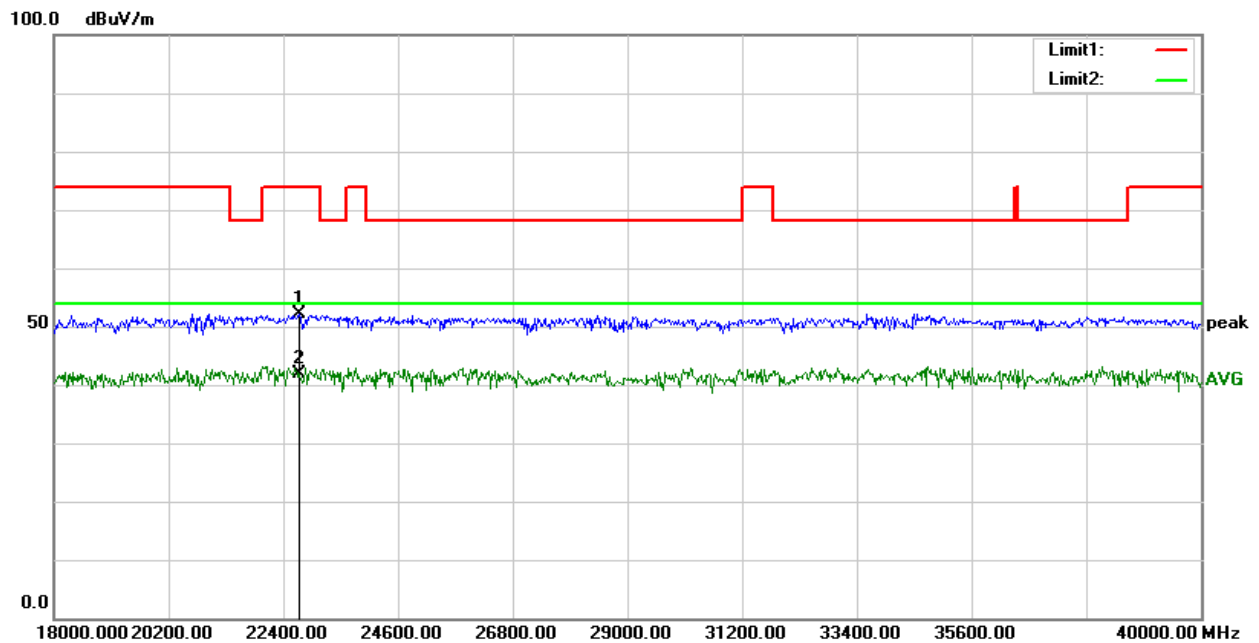
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1867.000	44.55	-0.09	68.2	-23.65	Peak	238.70	Vertical	Pass
1**	1867.000	31.95	-0.09	54.0	-22.05	AV	238.70	Vertical	Pass
2	2850.500	47.11	4.99	74.0	-26.89	Peak	2.30	Vertical	Pass
2**	2850.500	36.39	4.99	54.0	-17.61	AV	2.30	Vertical	Pass
3	6978.000	52.32	1.14	68.2	-15.88	Peak	194.40	Vertical	Pass
3**	6978.000	41.65	1.14	54.0	-12.35	AV	194.40	Vertical	Pass
4	11213.000	53.80	2.58	74.0	-20.20	Peak	243.50	Vertical	Pass
4**	11213.000	43.27	2.58	54.0	-10.73	AV	243.50	Vertical	Pass
5	14411.250	57.83	6.91	68.2	-10.37	Peak	0.20	Vertical	Pass
5**	14411.250	46.84	6.91	54.0	-7.16	AV	0.20	Vertical	Pass
6	17914.751	57.97	7.13	74.0	-16.03	Peak	47.20	Vertical	Pass
6**	17914.751	47.80	7.13	54.0	-6.20	AV	47.20	Vertical	Pass



18GHz-40GHz



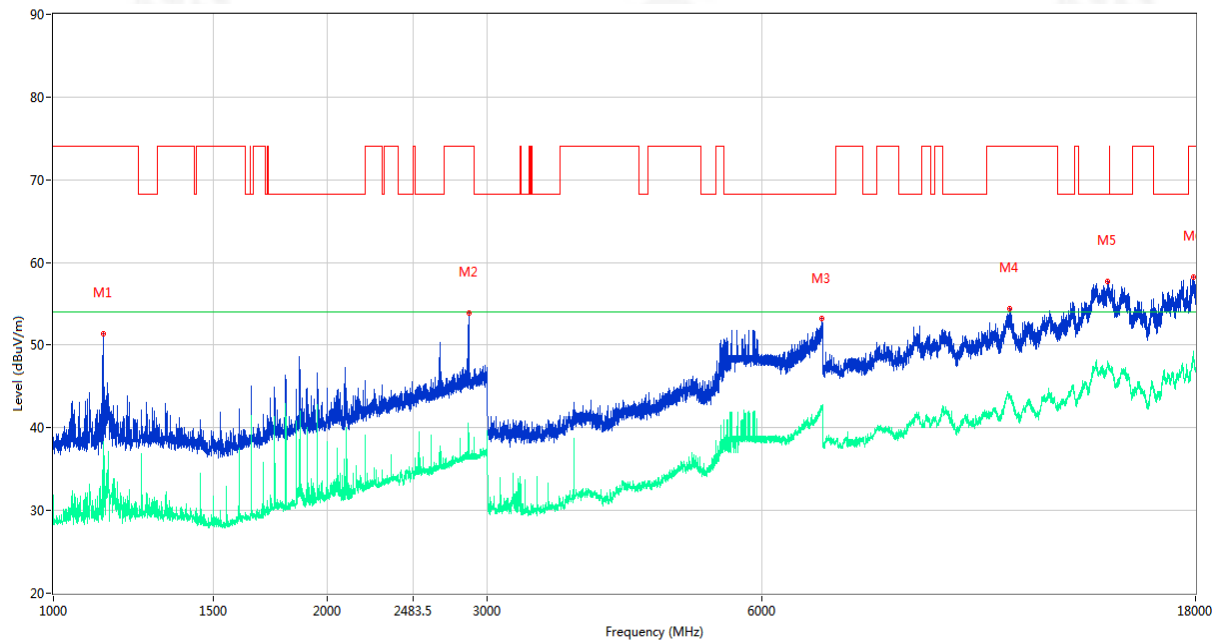
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22708.000	48.33	3.81	52.14	74.00	-21.86	peak
2	22708.000	38.15	3.81	41.96	54.00	-12.04	AVG

Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- All 20MHz Bandwidth of 5G RLAN (U-NII-3)802.11a/n20/11ac20/ax20 have been tested for above 1GHz test, only the worst case 802.11n20 MIMO was recorded



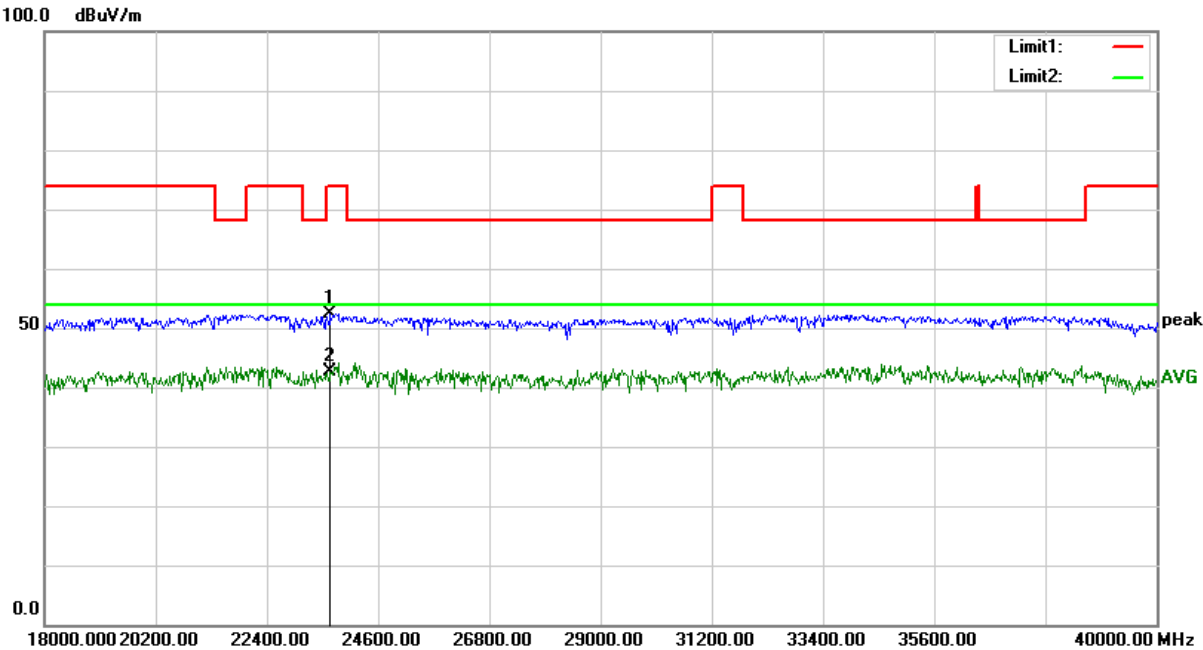
802.11ax40-MIMO
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1133.500	51.36	-1.70	74.0	-22.64	Peak	170.60	Horizontal	Pass
1**	1133.500	38.31	-1.70	54.0	-15.69	AV	170.60	Horizontal	Pass
2	2863.500	53.90	4.97	74.0	-20.10	Peak	127.10	Horizontal	Pass
2**	2863.500	39.33	4.97	54.0	-14.67	AV	127.10	Horizontal	Pass
3	6992.000	53.16	1.26	68.2	-15.04	Peak	143.80	Horizontal	Pass
3**	6992.000	42.70	1.26	54.0	-11.30	AV	143.80	Horizontal	Pass
4	11237.750	54.39	2.49	74.0	-19.61	Peak	359.70	Horizontal	Pass
4**	11237.750	43.74	2.49	54.0	-10.26	AV	359.70	Horizontal	Pass
5	14425.000	57.67	6.81	68.2	-10.53	Peak	346.90	Horizontal	Pass
5**	14425.000	47.34	6.81	54.0	-6.66	AV	346.90	Horizontal	Pass
6	17898.250	58.21	7.22	74.0	-15.79	Peak	16.30	Horizontal	Pass
6**	17898.250	48.31	7.22	54.0	-5.69	AV	16.30	Horizontal	Pass



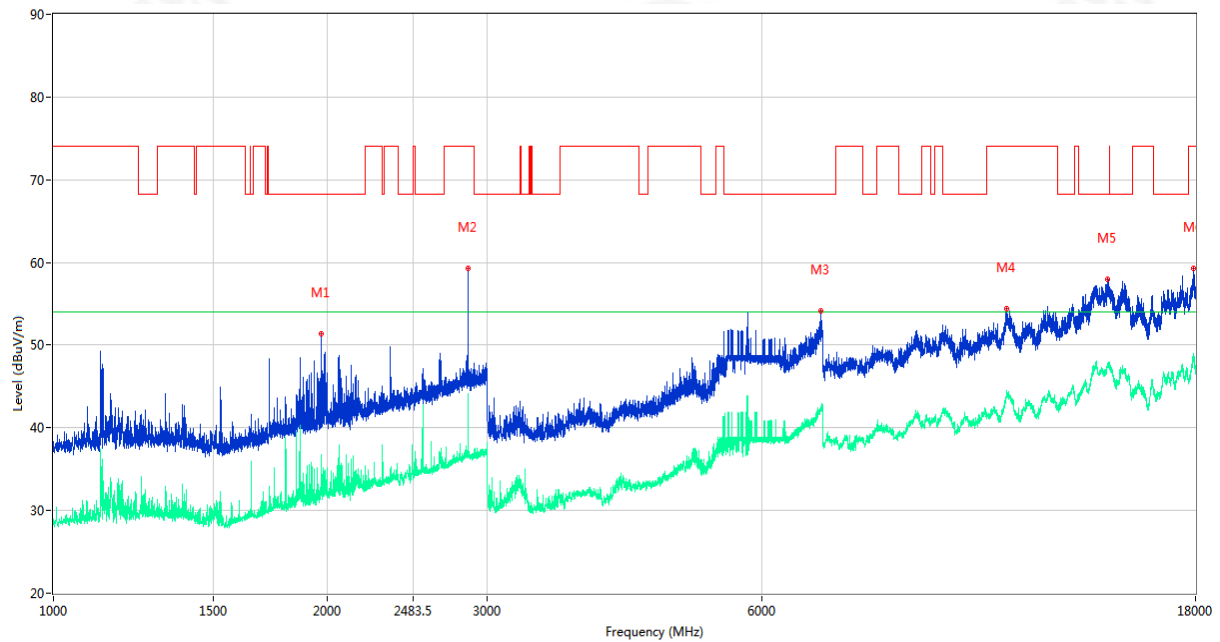
18GHz-40GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	23654.000	48.15	4.28	52.43	74.00	-21.57	peak
2	23654.000	38.25	4.28	42.53	54.00	-11.47	AVG



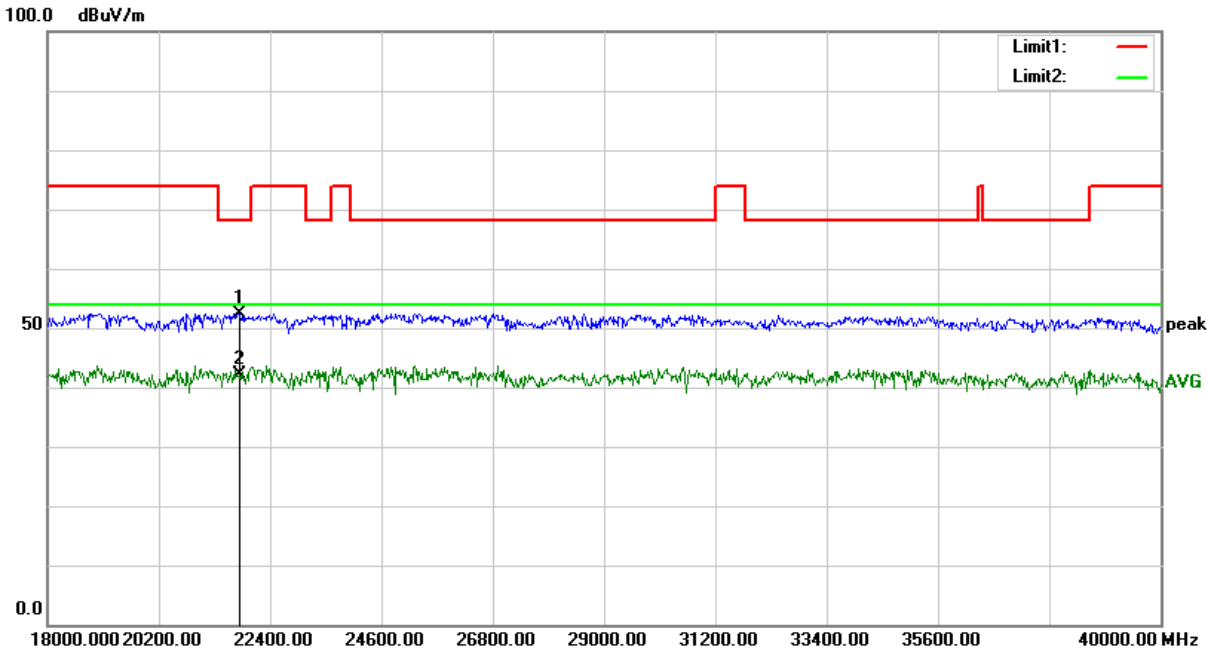
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1967.500	51.43	0.13	68.2	-16.77	Peak	172.50	Vertical	Pass
1**	1967.500	36.78	0.13	54.0	-17.22	AV	172.50	Vertical	Pass
2	2857.500	59.24	4.98	74.0	-14.76	Peak	239.40	Vertical	Pass
2**	2857.500	44.15	4.98	54.0	-9.85	AV	239.40	Vertical	Pass
3	6977.000	54.12	1.13	68.2	-14.08	Peak	0.00	Vertical	Pass
3**	6977.000	42.41	1.13	54.0	-11.59	AV	0.00	Vertical	Pass
4	11169.000	54.42	2.45	74.0	-19.58	Peak	152.70	Vertical	Pass
4**	11169.000	44.48	2.45	54.0	-9.52	AV	152.70	Vertical	Pass
5	14425.000	57.99	6.81	68.2	-10.21	Peak	359.10	Vertical	Pass
5**	14425.000	47.53	6.81	54.0	-6.47	AV	359.10	Vertical	Pass
6	17892.749	59.30	7.18	74.0	-14.70	Peak	102.90	Vertical	Pass
6**	17892.749	48.74	7.18	54.0	-5.26	AV	102.90	Vertical	Pass



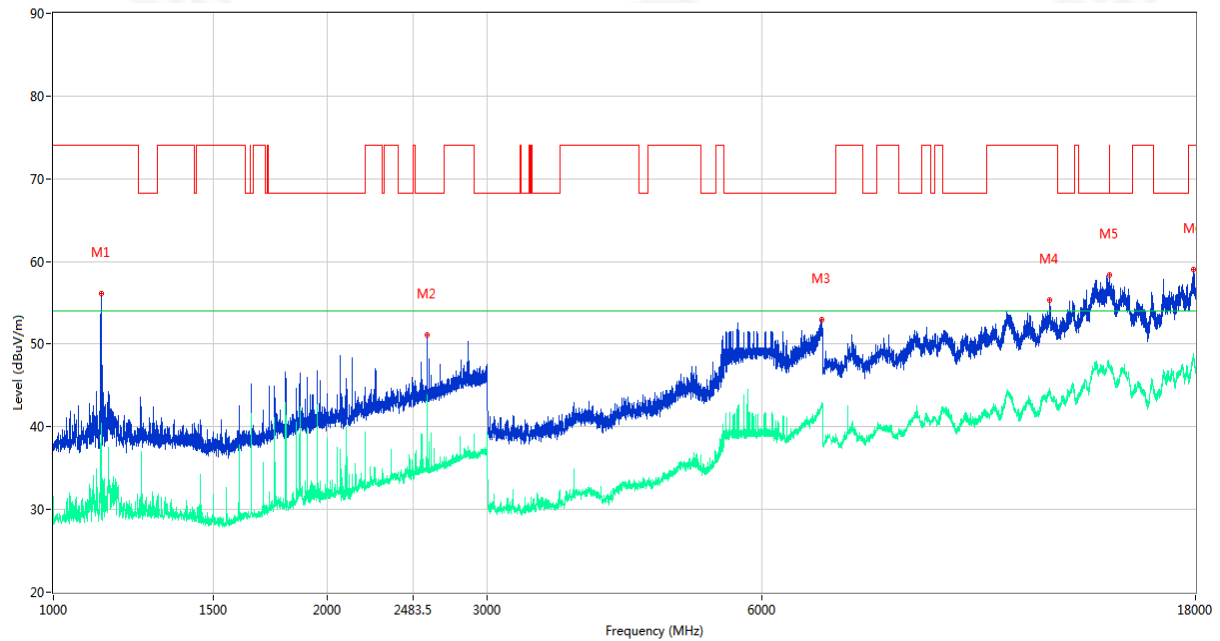
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21784.000	49.27	3.20	52.47	68.20	-15.73	peak
2	21784.000	38.84	3.20	42.04	54.00	-11.96	AVG



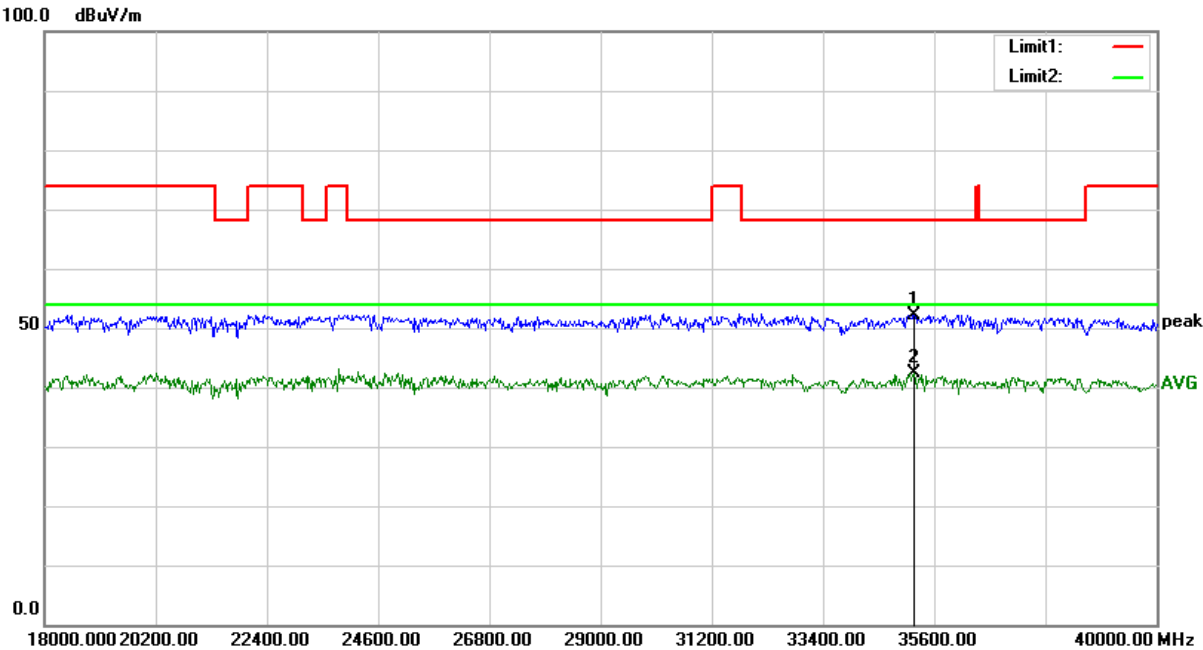
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1128.000	56.18	-1.71	74.0	-17.82	Peak	98.00	Horizontal	Pass
1**	1128.000	40.37	-1.71	54.0	-13.63	AV	98.00	Horizontal	Pass
2	2574.000	51.06	3.50	68.2	-17.14	Peak	115.50	Horizontal	Pass
2**	2574.000	43.92	3.50	54.0	-10.08	AV	115.50	Horizontal	Pass
3	6997.000	52.93	1.30	68.2	-15.27	Peak	168.80	Horizontal	Pass
3**	6997.000	42.89	1.30	54.0	-11.11	AV	168.80	Horizontal	Pass
4	12447.750	55.36	2.70	74.0	-18.64	Peak	272.20	Horizontal	Pass
4**	12447.750	44.04	2.70	54.0	-9.96	AV	272.20	Horizontal	Pass
5	14499.250	58.38	6.29	74.0	-15.62	Peak	257.60	Horizontal	Pass
5**	14499.250	47.20	6.29	54.0	-6.80	AV	257.60	Horizontal	Pass
6	17909.250	58.99	7.17	74.0	-15.01	Peak	72.00	Horizontal	Pass
6**	17909.250	48.64	7.17	54.0	-5.36	AV	72.00	Horizontal	Pass



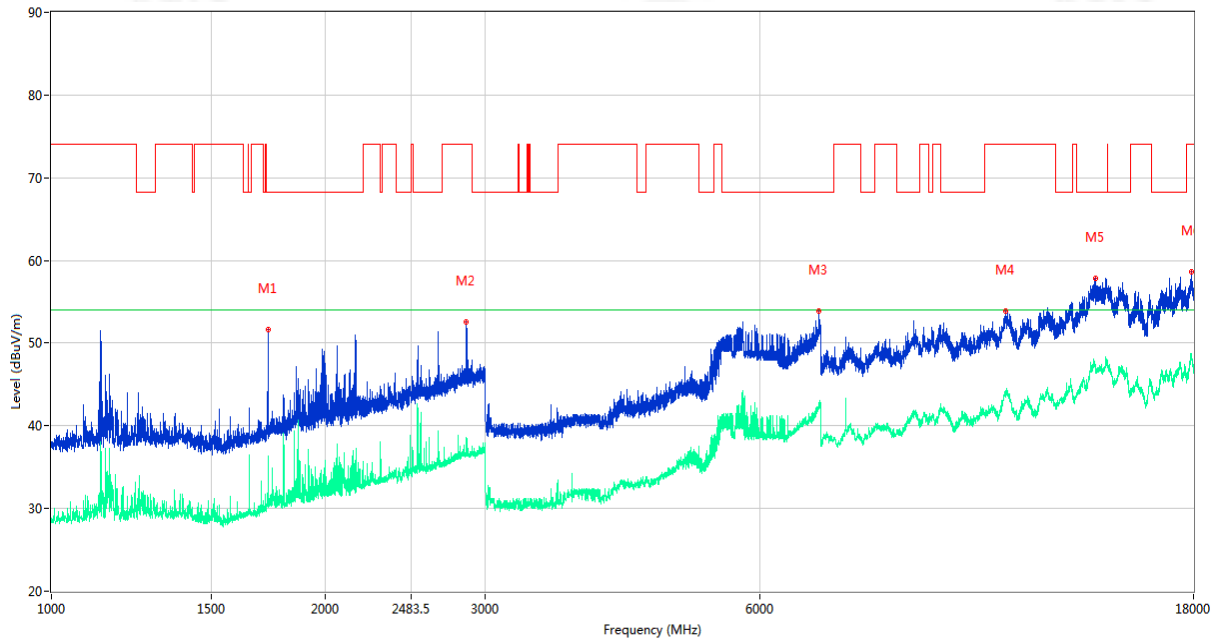
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35204.000	42.37	9.73	52.10	68.20	-16.10	peak
2	35204.000	32.75	9.73	42.48	54.00	-11.52	AVG



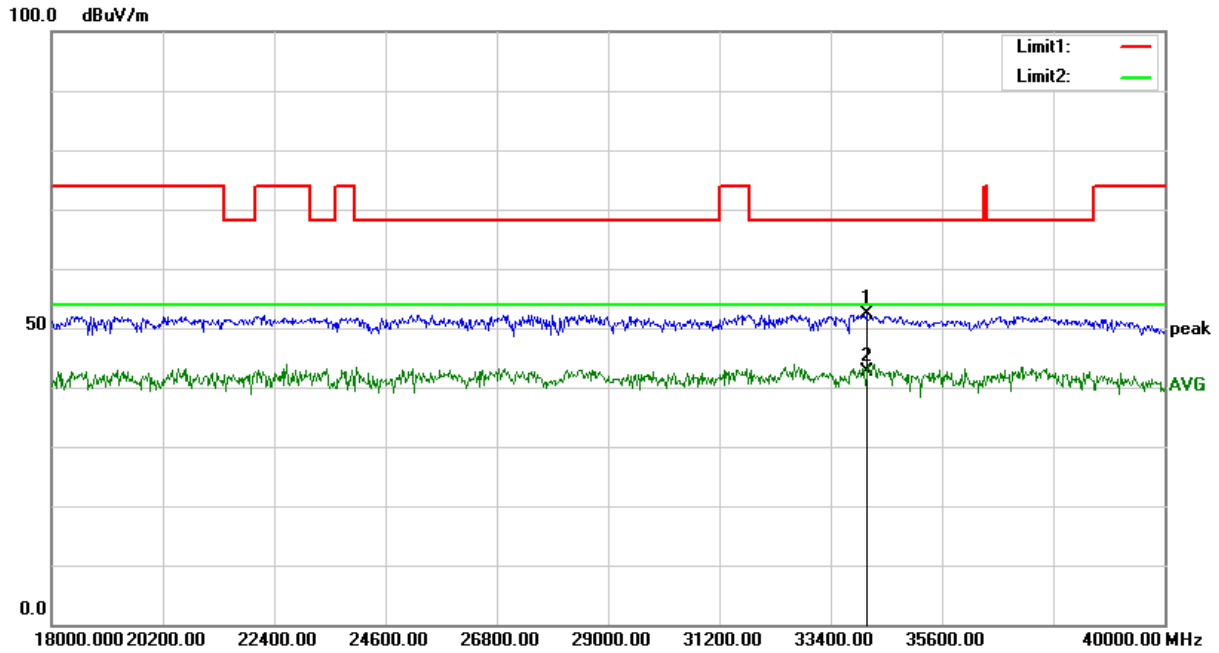
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1729.500	51.60	-0.71	68.2	-16.60	Peak	152.90	Vertical	Pass
1**	1729.500	36.30	-0.71	54.0	-17.70	AV	152.90	Vertical	Pass
2	2858.000	52.53	4.98	74.0	-21.47	Peak	243.60	Vertical	Pass
2**	2858.000	37.95	4.98	54.0	-16.05	AV	243.60	Vertical	Pass
3	6977.000	53.89	1.13	68.2	-14.31	Peak	172.40	Vertical	Pass
3**	6977.000	42.77	1.13	54.0	-11.23	AV	172.40	Vertical	Pass
4	11185.500	53.84	2.54	74.0	-20.16	Peak	336.50	Vertical	Pass
4**	11185.500	44.05	2.54	54.0	-9.95	AV	336.50	Vertical	Pass
5	14031.750	57.84	7.94	68.2	-10.36	Peak	338.70	Vertical	Pass
5**	14031.750	47.43	7.94	54.0	-6.57	AV	338.70	Vertical	Pass
6	17917.499	58.61	7.11	74.0	-15.39	Peak	98.50	Vertical	Pass
6**	17917.499	48.54	7.11	54.0	-5.46	AV	98.50	Vertical	Pass



18GHz-40GHz



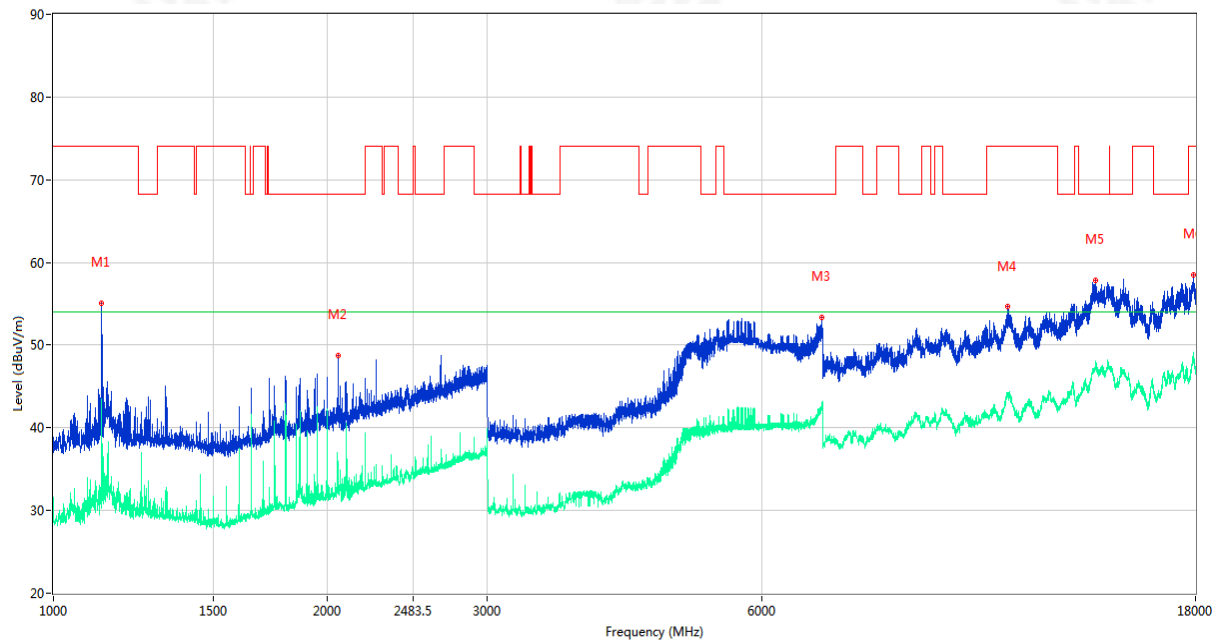
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34104.000	42.98	9.43	52.41	68.20	-15.79	peak
2	34104.000	33.08	9.43	42.51	54.00	-11.49	AVG

Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- 3) All 40MHz Bandwidth of 5G RLAN (U-NII-3)802.11n40/ac40/ax40 have been tested for above 1GHz test, only the worst case 802.11ax40 MIMO was recorded



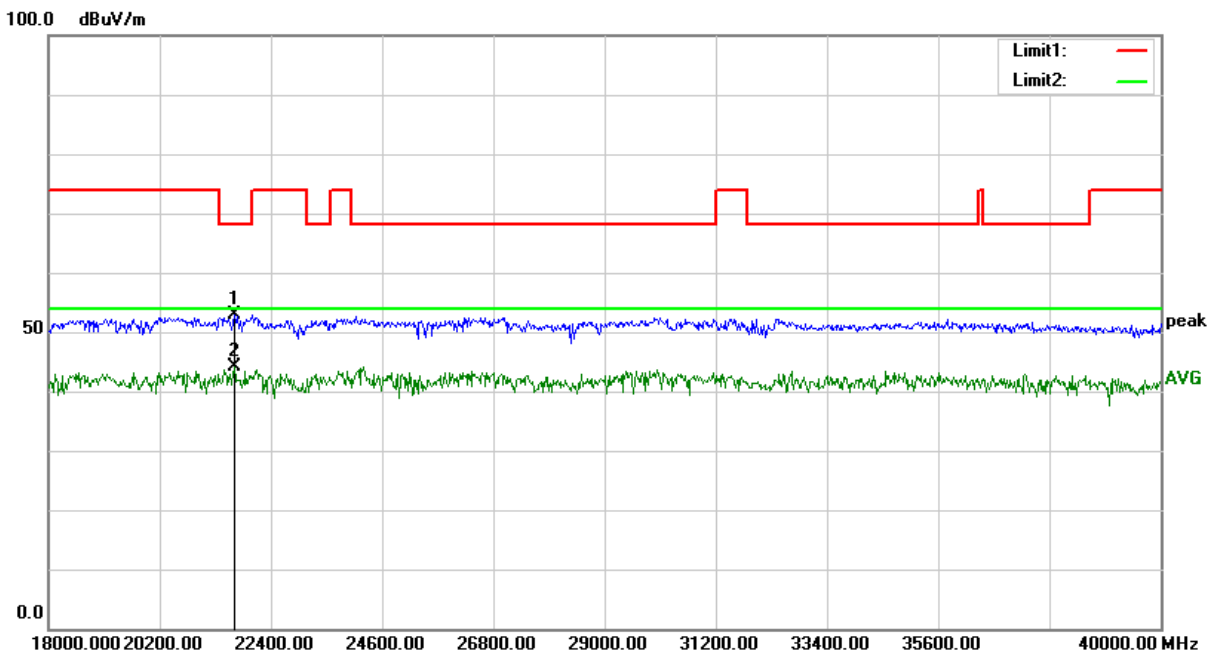
802.11 ax80-MIMO
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1128.500	55.10	-1.71	74.0	-18.90	Peak	157.60	Horizontal	Pass
1**	1128.500	43.47	-1.71	54.0	-10.53	AV	157.60	Horizontal	Pass
2	2054.000	48.74	0.82	68.2	-19.46	Peak	112.90	Horizontal	Pass
2**	2054.000	35.91	0.82	54.0	-18.09	AV	112.90	Horizontal	Pass
3	6992.000	53.40	1.26	68.2	-14.80	Peak	52.70	Horizontal	Pass
3**	6992.000	43.04	1.26	54.0	-10.96	AV	52.70	Horizontal	Pass
4	11182.750	54.61	2.53	74.0	-19.39	Peak	356.30	Horizontal	Pass
4**	11182.750	43.68	2.53	54.0	-10.32	AV	356.30	Horizontal	Pass
5	13987.750	57.90	8.30	68.2	-10.30	Peak	208.20	Horizontal	Pass
5**	13987.750	47.96	8.30	54.0	-6.04	AV	208.20	Horizontal	Pass
6	17895.500	58.47	7.20	74.0	-15.53	Peak	36.60	Horizontal	Pass
6**	17895.500	48.74	7.20	54.0	-5.26	AV	36.60	Horizontal	Pass



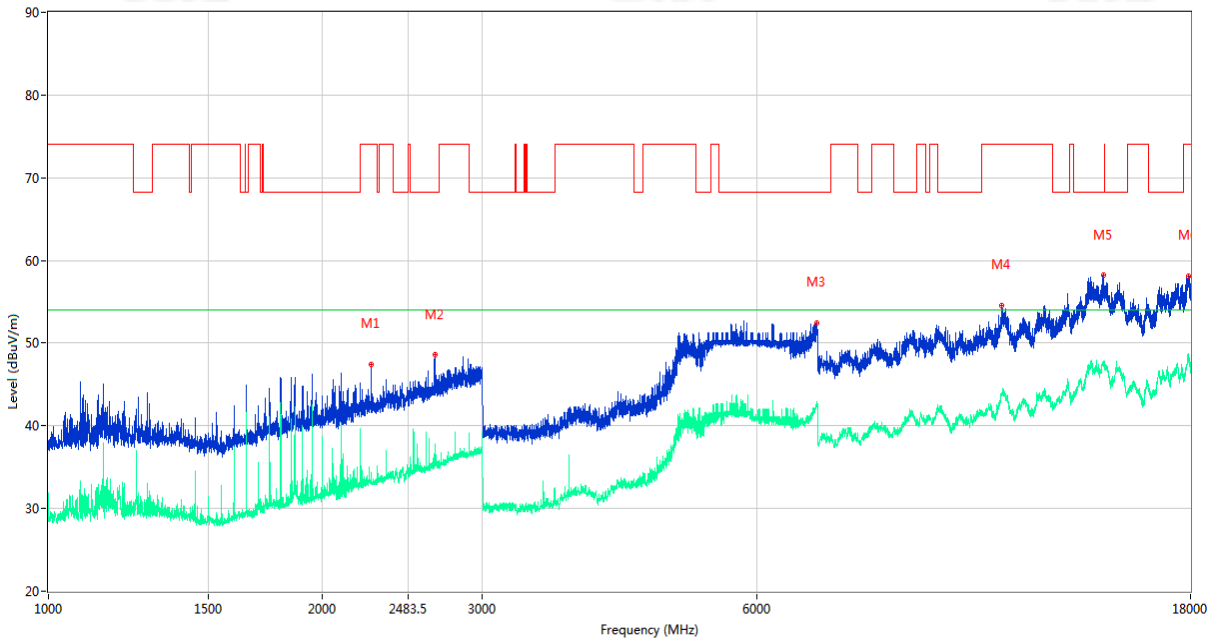
18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21674.000	49.86	3.10	52.96	68.20	-15.24	peak
2	21674.000	41.08	3.10	44.18	54.00	-9.82	AVG



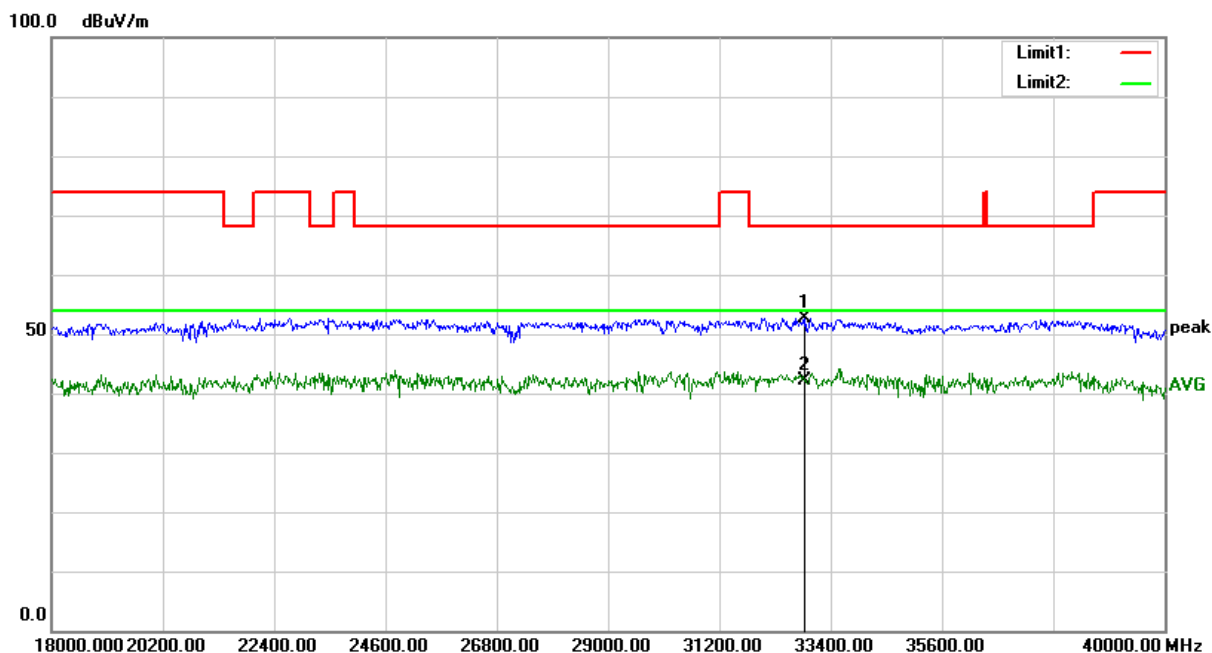
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2263.500	47.43	2.18	74.0	-26.57	Peak	131.50	Vertical	Pass
1**	2263.500	34.40	2.18	54.0	-19.60	AV	131.50	Vertical	Pass
2	2661.500	48.54	3.98	68.2	-19.66	Peak	129.30	Vertical	Pass
2**	2661.500	36.46	3.98	54.0	-17.54	AV	129.30	Vertical	Pass
3	6990.000	52.44	1.24	68.2	-15.76	Peak	147.20	Vertical	Pass
3**	6990.000	42.62	1.24	54.0	-11.38	AV	147.20	Vertical	Pass
4	11160.750	54.49	2.41	74.0	-19.51	Peak	70.70	Vertical	Pass
4**	11160.750	43.61	2.41	54.0	-10.39	AV	70.70	Vertical	Pass
5	14427.750	58.17	6.79	68.2	-10.03	Peak	9.00	Vertical	Pass
5**	14427.750	47.80	6.79	54.0	-6.20	AV	9.00	Vertical	Pass
6	17895.500	58.14	7.20	74.0	-15.86	Peak	116.40	Vertical	Pass
6**	17895.500	48.77	7.20	54.0	-5.23	AV	116.40	Vertical	Pass



18GHz-40GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32894.000	43.66	9.05	52.71	68.20	-15.49	peak
2	32894.000	33.06	9.05	42.11	54.00	-11.89	AVG

Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.
- All 80MHz Bandwidth of 5G RLAN (U-NII-3)802.11ac80/ax80 have been tested for above 1GHz test, only the worst case 802.11ax80 MIMO was recorded



5. EMISSIONS AT RESTRICTED BAND

5.1 TEST REQUIREMENT

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	Above 38.6
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



5.2 TEST PROCEDURE

According to ANSI C63.10 Field Strength Approach (linear terms):

$$E = \text{EIRP} - 20 \log d + 104.8$$

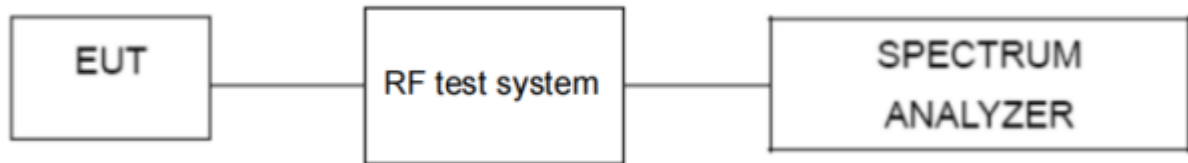
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=3 MHz for AVG detector, Max Hold=Average, Trace=100times for AV test.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Compare the resultant electric field strength level to the applicable regulatory limit.
11. Perform radiated spurious emission test duress until all measured frequencies were complete.

5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

5.6 TEST RESULTS

Notes: The test data please refer to APPENDIX 1.

Remark:

1. Test results including cable loss;
2. Measured at difference Packet Type for each mode and recorded worst case for each mode.
3. “---” means that the fundamental frequency not for RSS GEN limits requirement.
4. The other emission levels were very low against the limit.
5. The average measurement was not performed when the peak measured data under the limit of average detection.
6. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=3MHz/Sweep time=Auto/Detector=RMS, Max Hold=Average, Trace=100times.
7. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.



6. POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a) (1) Power limits:

(i) 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, both the maximum conducted output power and the maximum power spectral density 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).

(ii) 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) 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 conducted output power or 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 conducted output power and 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.

(iv) 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. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC §15.407(a) (2) Power limits:

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC §15.407(a) (3) Power limits:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and 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.



6.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

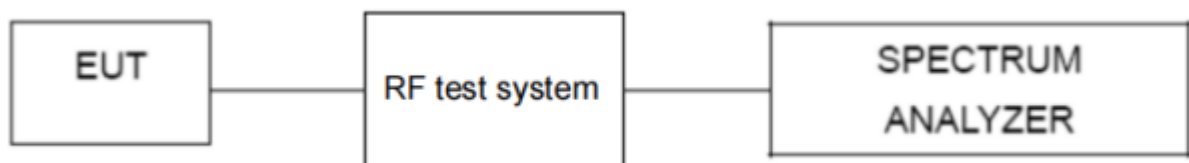
- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



7. 26DB EMISSION BANDWIDTH & 6DB OCCUPIED BANDWIDTH

6.1 APPLIED PROCEDURES / LIMIT

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

7.2 TEST PROCEDURE

1) Emission bandwidth for the band 5.725 GHz to 5.85 GHz.

The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- 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.

2) Emission bandwidth for all other bands 5.15 GHz to 5.35 GHz and 5.47-5.725 GHz

The procedure for this method is as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b) Set the VBW $\geq \text{RBW}$.
- 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 in the range of 1% to 5%.

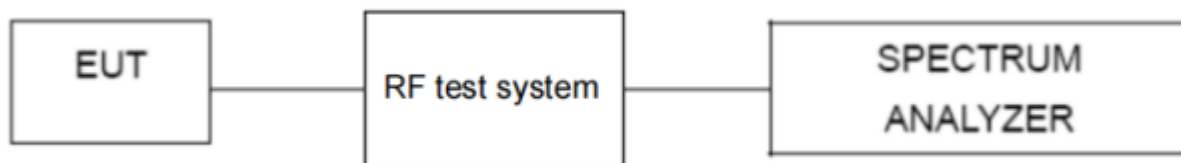
Note: The automatic bandwidth measurement capability of a spectrum analyzer or an EMI receiver may be employed if it implements the functionality described in the preceding items.

7.3 DEVIATION FROM STANDARD

No deviation.



7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



8. MAXIMUM CONDUCTED OUTPUT POWER

8.1 PPLIED PROCEDURES / LIMIT

For mobile and portable 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, both the maximum conducted output power and 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 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz, If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 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.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Max Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5895	

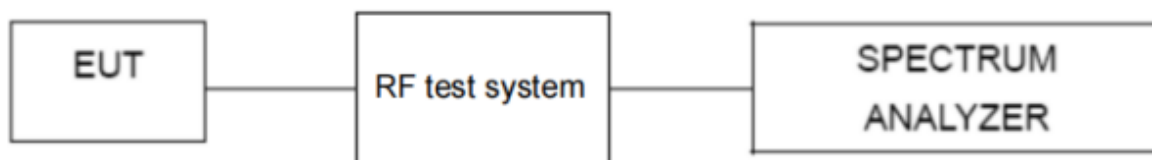
8.2 TEST PROCEDURE

Please refer to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Erratato C63.10a-2024 Section 12.4.2 Method SA-2.

7.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



9. FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

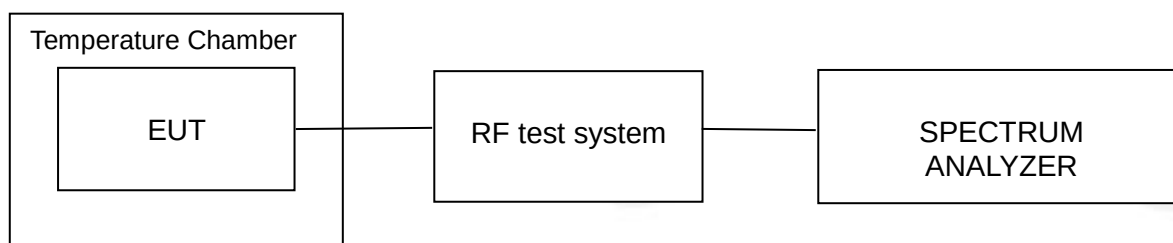
Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be (IEEE 802.11n specification).

9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 106 \text{ ppm}$.
6. The test extreme voltage is to change the primary supply voltage from 85% to 115% percent of the nominal value.
7. Extreme temperature is $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.

9.3 TEST SETUP LAYOUT



9.4 EUT OPERATION DURING TEST

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.



9.5 TEST RESULTS

U-NII-1

Channel 40(5200MHz)

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
5.75	5200.0035
5	5200.0030
4.25	5200.0031
Max.Deviation(MHz)	0.0035

Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	5200.0038
-20	5200.0030
-10	5200.0029
0	5200.0033
10	5200.0032
20	5200.0036
30	5200.0033
40	5200.0037
50	5200.0035
Max.Deviation(MHz)	0.0038

U-NII-2A

Channel 60(5300MHz)

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
5.75	5300.0036
5	5300.0035
4.25	5300.0027
Max.Deviation(MHz)	0.0036

Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	5300.0036
-20	5300.0031
-10	5300.0026
0	5300.0031
10	5300.0034
20	5300.0028
30	5300.0031
40	5300.0028
50	5300.0028
Max.Deviation(MHz)	0.0036



U-NII-2C
Channel 116(5580MHz)
Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
5.75	5580.0034
5	5580.0031
4.25	5580.0025
Max.Deviation(MHz)	0.0034

Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	5580.0040
-20	5580.0035
-10	5580.0037
0	5580.0038
10	5580.0037
20	5580.0037
30	5580.0031
40	5580.0033
50	5580.0033
Max.Deviation(MHz)	0.0040

U-NII-3
Channel 157(5785MHz)
Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
5.75	5785.0038
5	5785.0030
4.25	5785.0037
Max.Deviation(MHz)	0.0038

Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	5785.0034
-20	5785.0026
-10	5785.0025
0	5785.0027
10	5785.0031
20	5785.0024
30	5785.0031
40	5785.0031
50	5785.0029
Max.Deviation(MHz)	0.0034



10. DUTY CYCLE

10.1 APPLIED PROCEDURES / LIMIT

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

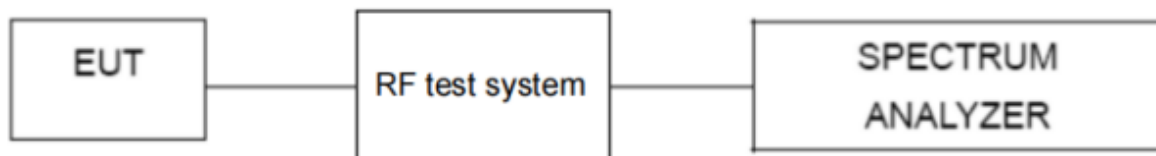
- 1) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- 2) The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - i) Set the center frequency of the instrument to the center frequency of the transmission.
 - ii) Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value.
 - iii) Set $VBW \geq RBW$.
 - iv) Set detector = peak.
- v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7 \mu s$.

10.2 DEVIATION FROM STANDARD

No deviation.

9.3 TEST SETUP



10.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.

10.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



11. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	
The antenna is FPC Antenna, the best case gain of the antenna is ANT1:3.19 dBi, ANT2: 2.76 dBi, MIMO:5.99 dBi for 5.2G / 5.3G / 5.6G / 5.8G, reference to the appendix II for details.	

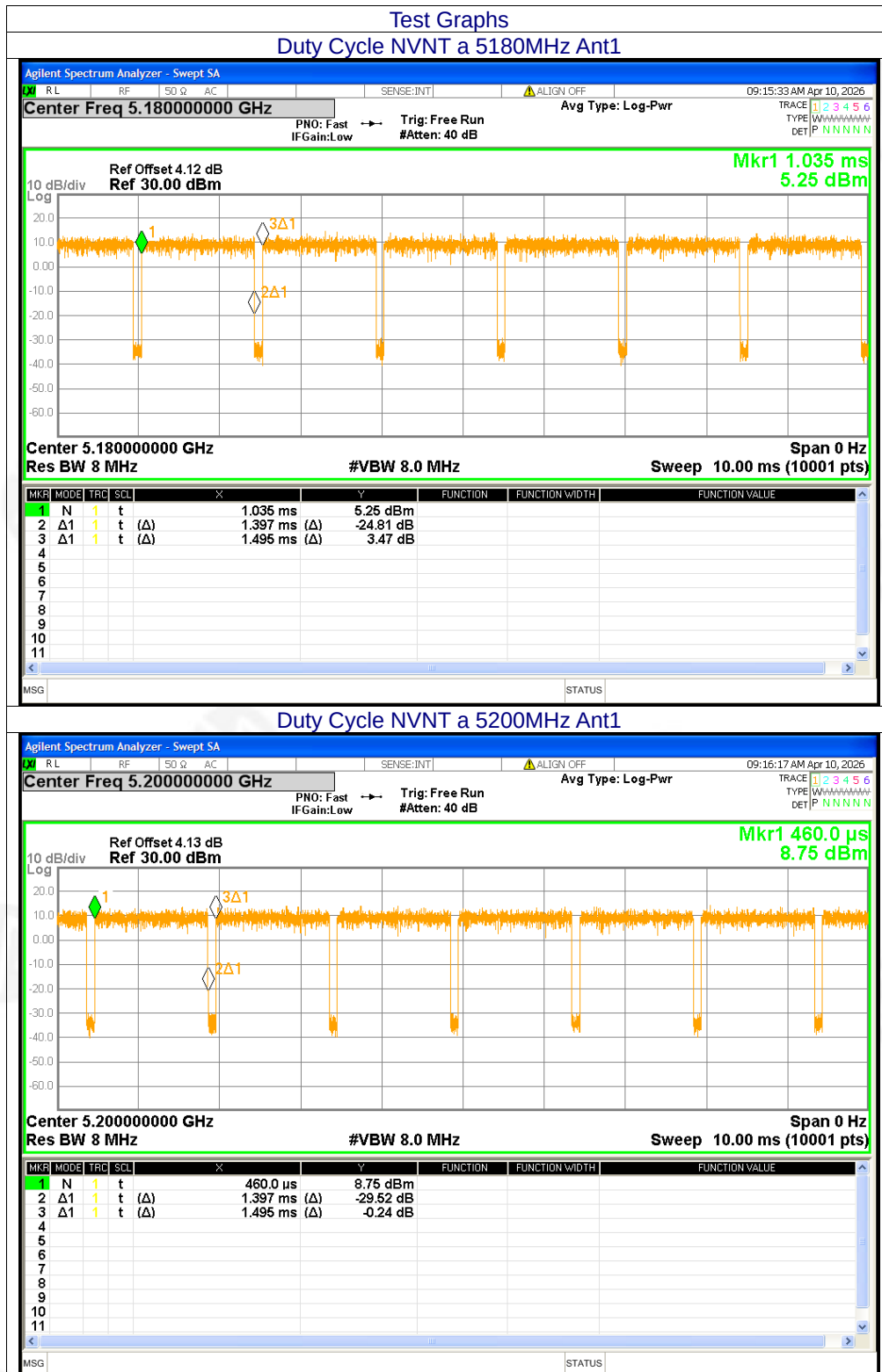


12 APPENDIX 1-TEST DATA 1

U-NNI-1

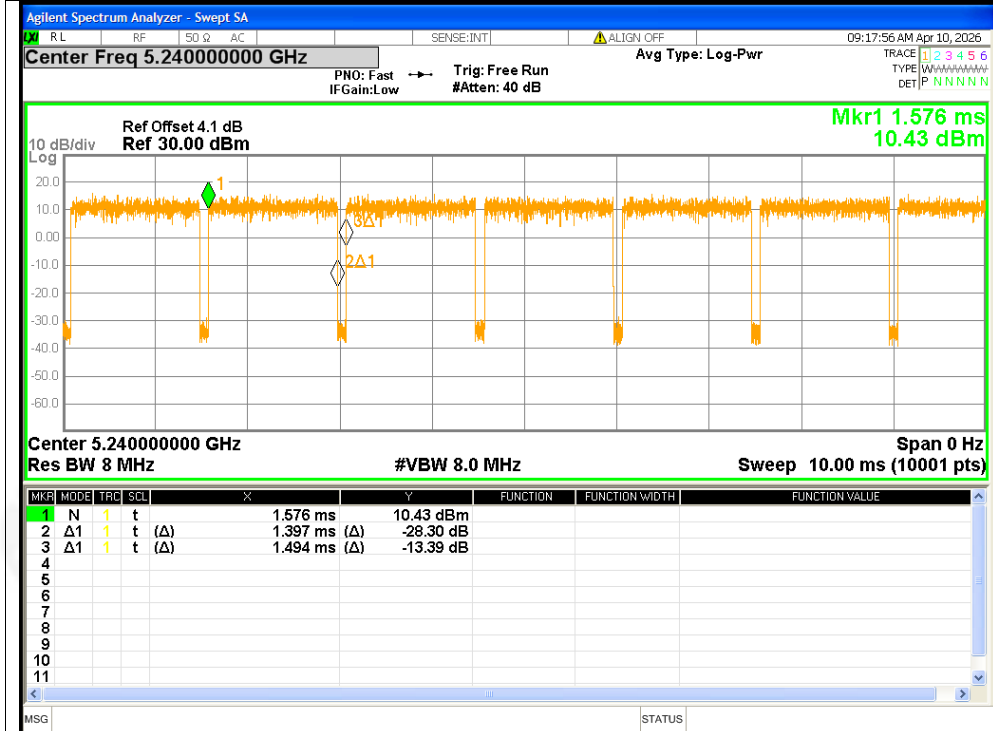
Duty Cycle

Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Max Variation (%)
a	5180	Ant1	1.397	1.495	93.44	0.29	0.72	0.27
a	5200	Ant1	1.397	1.495	93.44	0.29	0.72	0.22
a	5240	Ant1	1.397	1.494	93.51	0.29	0.72	0.34
a	5180	Ant2	1.397	1.494	93.51	0.29	0.72	0.25
a	5200	Ant2	1.397	1.495	93.44	0.29	0.72	0.22
a	5240	Ant2	1.397	1.494	93.51	0.29	0.72	0.27
n20	5180	Ant1	1.31	1.407	93.11	0.31	0.76	0.22
n20	5180	Ant2	1.309	1.407	93.03	0.31	0.76	0.34
n20	5200	Ant1	1.309	1.407	93.03	0.31	0.76	0.25
n20	5200	Ant2	1.309	1.406	93.1	0.31	0.76	0.22
n20	5240	Ant1	1.31	1.407	93.11	0.31	0.76	0.22
n20	5240	Ant2	1.309	1.407	93.03	0.31	0.76	0.23
n40	5190	Ant1	0.65	0.747	87.01	0.6	1.54	0.27
n40	5190	Ant2	0.65	0.747	87.01	0.6	1.54	0.22
n40	5230	Ant1	0.649	0.747	86.88	0.61	1.54	0.23
n40	5230	Ant2	0.649	0.747	86.88	0.61	1.54	0.19
ac20	5180	Ant1	1.317	1.414	93.14	0.31	0.76	0.26
ac20	5180	Ant2	1.318	1.415	93.14	0.31	0.76	0.22
ac20	5200	Ant1	1.317	1.415	93.07	0.31	0.76	0.25
ac20	5200	Ant2	1.317	1.415	93.07	0.31	0.76	0.18
ac20	5240	Ant1	1.317	1.415	93.07	0.31	0.76	0.19
ac20	5240	Ant2	1.318	1.415	93.14	0.31	0.76	0.20
ac40	5190	Ant1	0.658	0.755	87.15	0.6	1.52	0.27
ac40	5190	Ant2	0.657	0.755	87.02	0.6	1.52	0.22
ac40	5230	Ant1	0.658	0.756	87.04	0.6	1.52	0.34
ac40	5230	Ant2	0.657	0.755	87.02	0.6	1.52	0.25
ac80	5210	Ant1	0.324	0.423	76.6	1.16	3.09	0.22
ac80	5210	Ant2	0.324	0.423	76.6	1.16	3.09	0.22
ax20	5180	Ant1	1.022	1.12	91.25	0.4	0.98	0.27
ax20	5180	Ant2	1.022	1.12	91.25	0.4	0.98	0.22
ax20	5200	Ant1	1.022	1.12	91.25	0.4	0.98	0.34
ax20	5200	Ant2	1.022	1.12	91.25	0.4	0.98	0.25
ax20	5240	Ant1	1.022	1.12	91.25	0.4	0.98	0.22
ax20	5240	Ant2	1.022	1.12	91.25	0.4	0.98	0.22
ax40	5190	Ant1	0.543	0.64	84.84	0.71	1.84	0.23
ax40	5190	Ant2	0.543	0.64	84.84	0.71	1.84	0.27
ax40	5230	Ant1	0.542	0.639	84.82	0.72	1.85	0.22
ax40	5230	Ant2	0.542	0.64	84.69	0.72	1.85	0.23
ax80	5210	Ant1	0.291	0.39	74.62	1.27	3.44	0.19
ax80	5210	Ant2	0.291	0.39	74.62	1.27	3.44	0.26

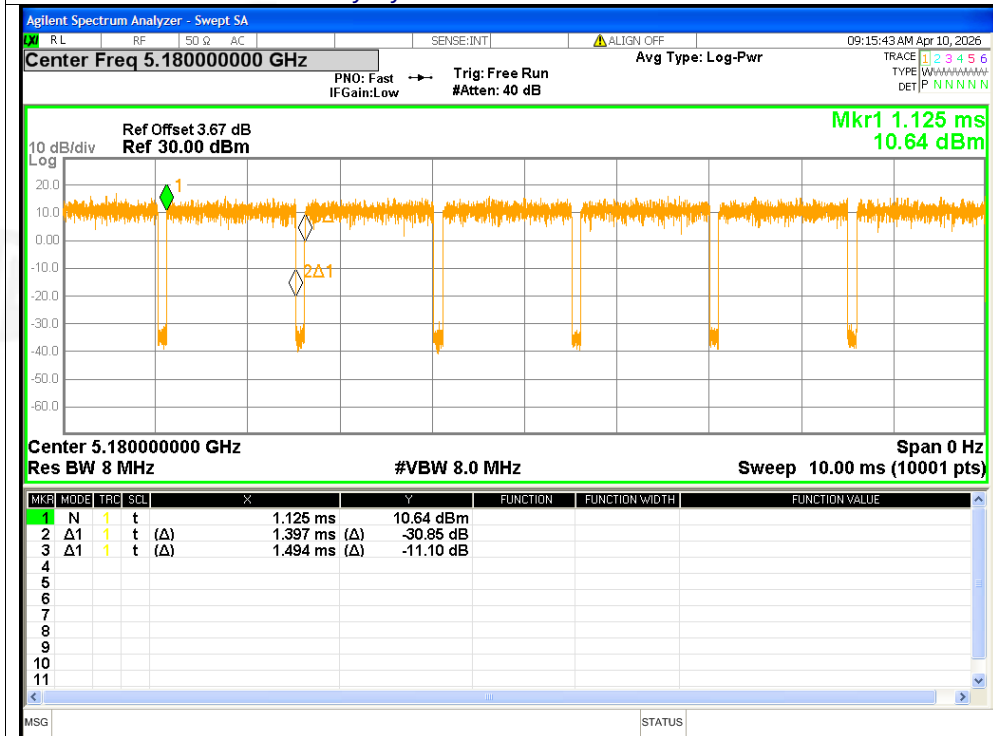




Duty Cycle NVNT a 5240MHz Ant1

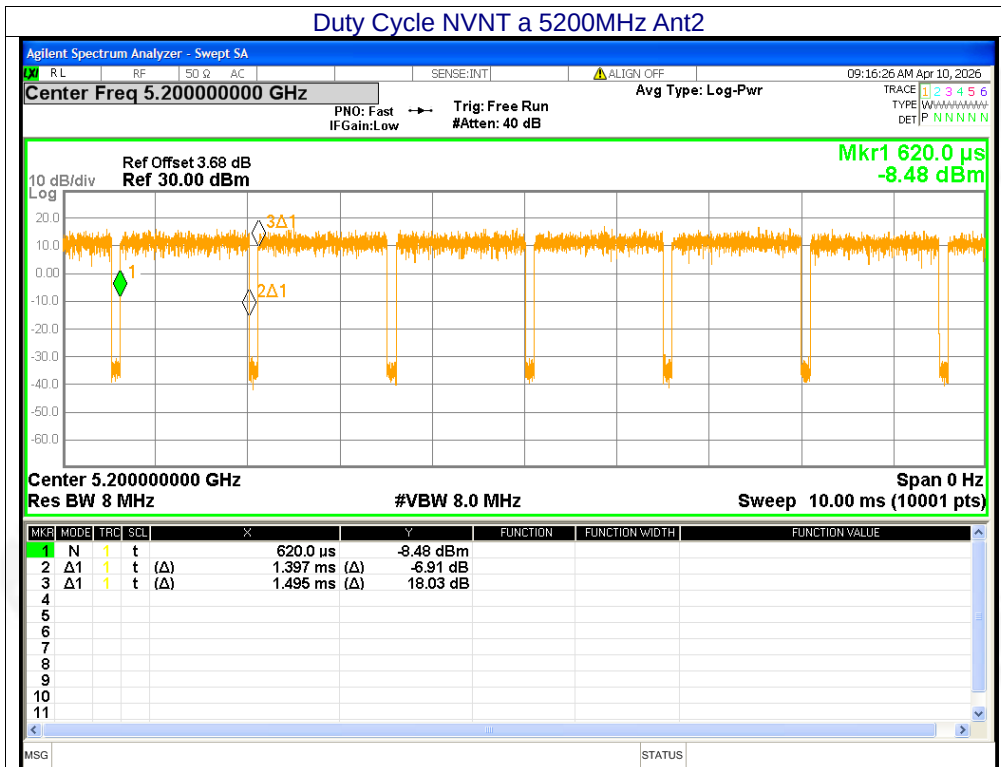


Duty Cycle NVNT a 5180MHz Ant2

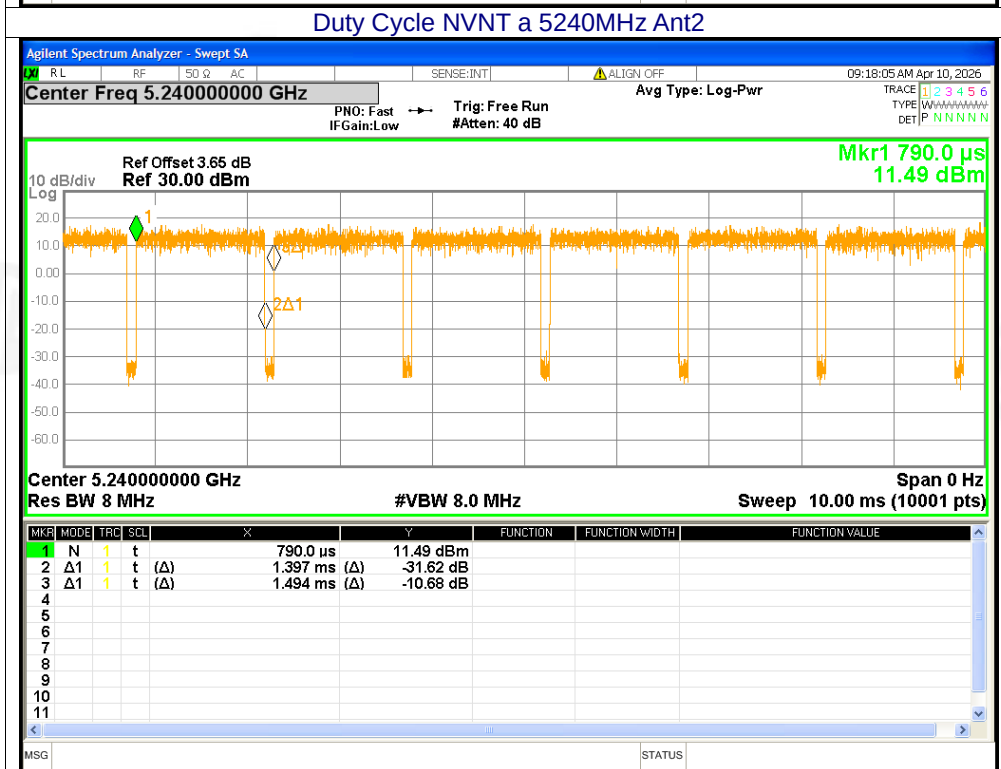


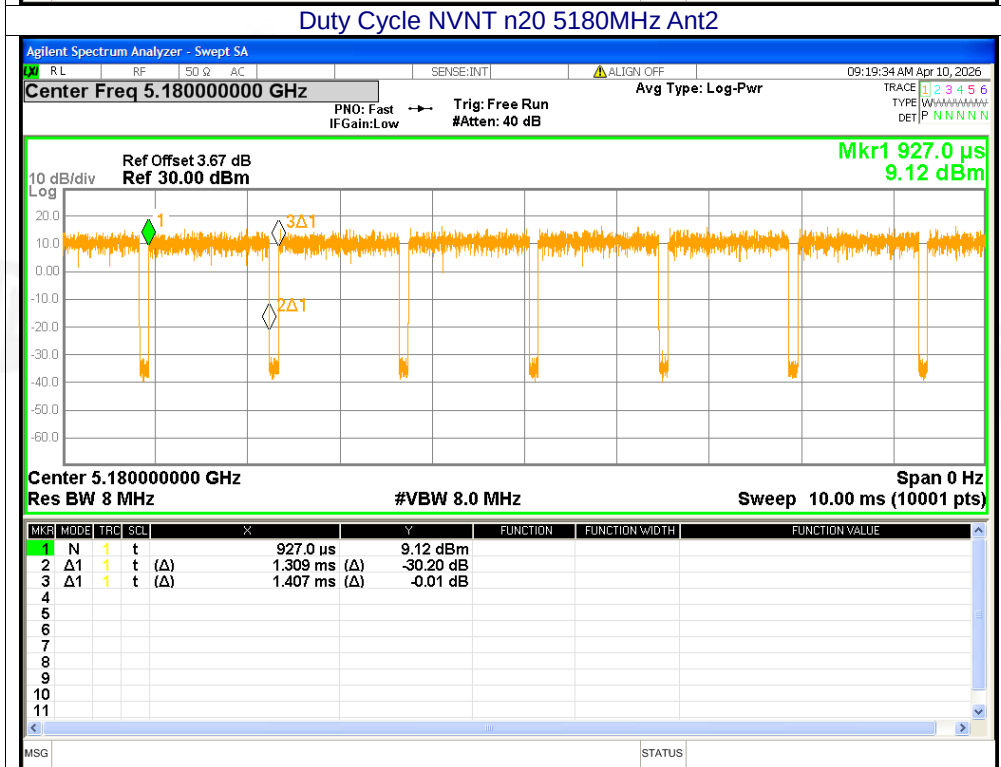
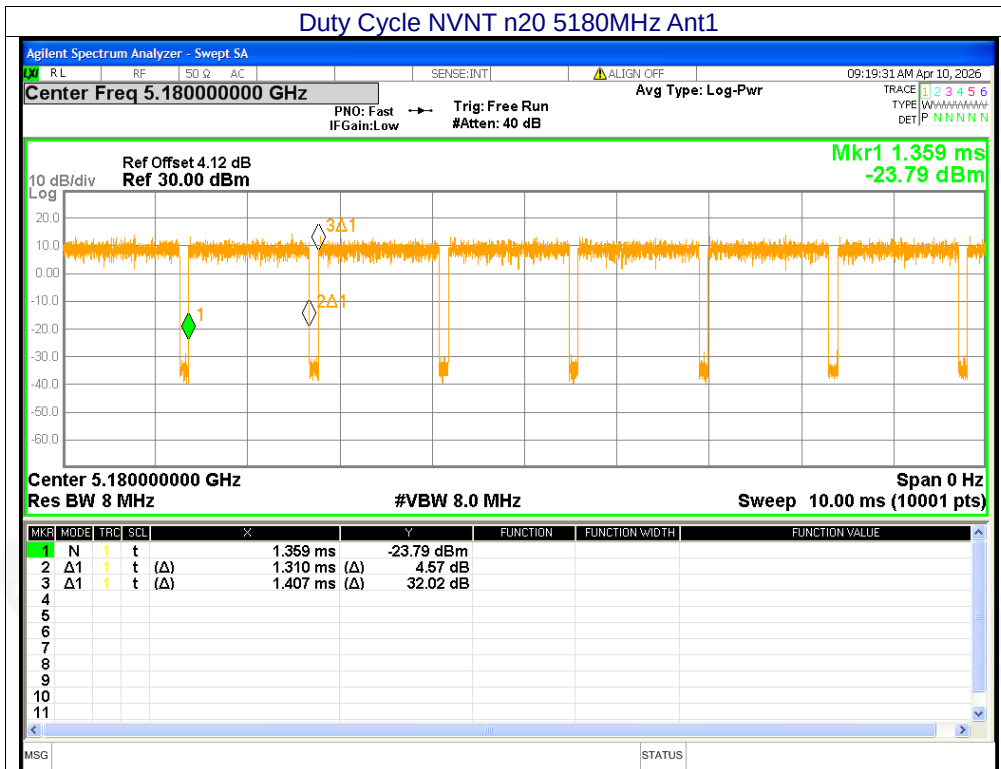


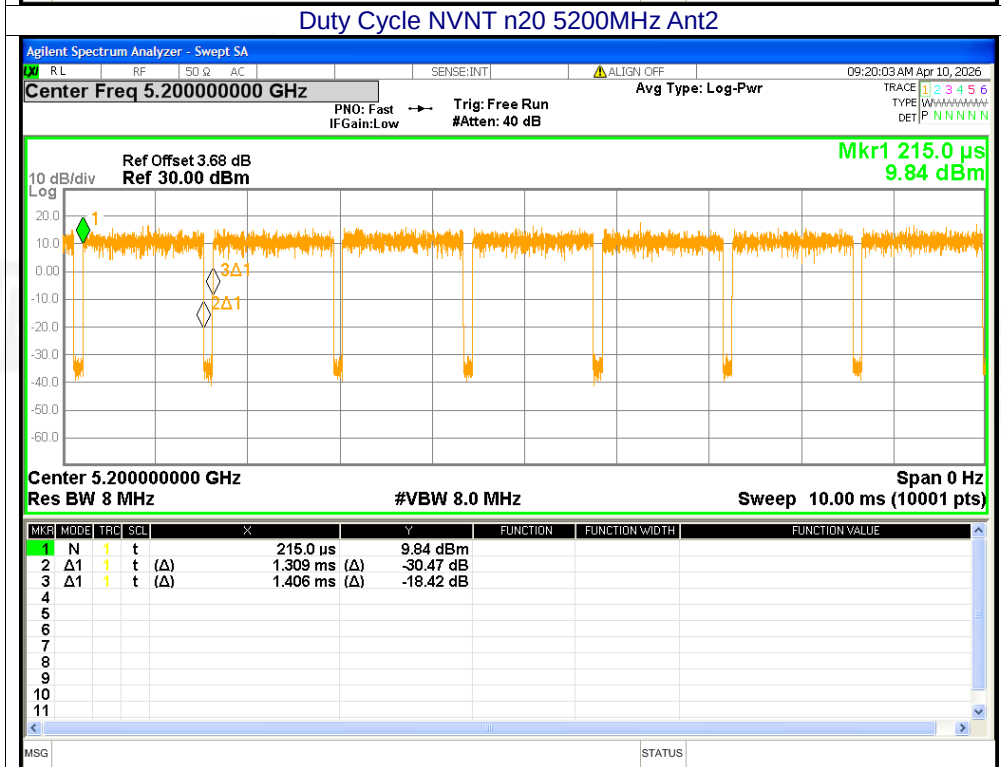
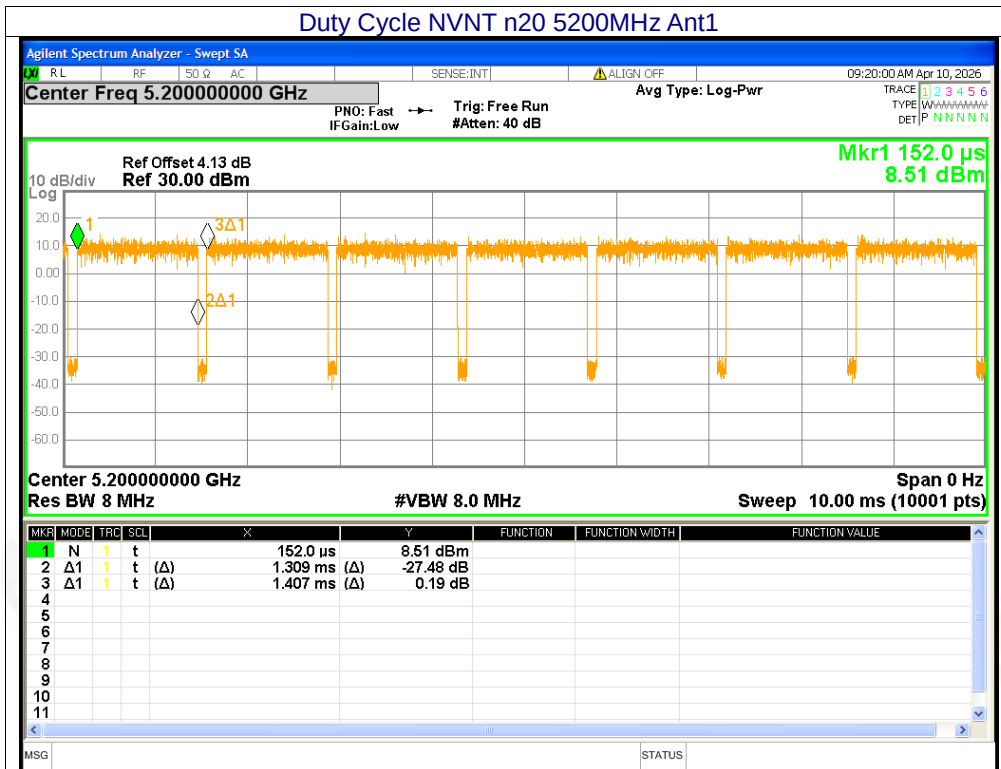
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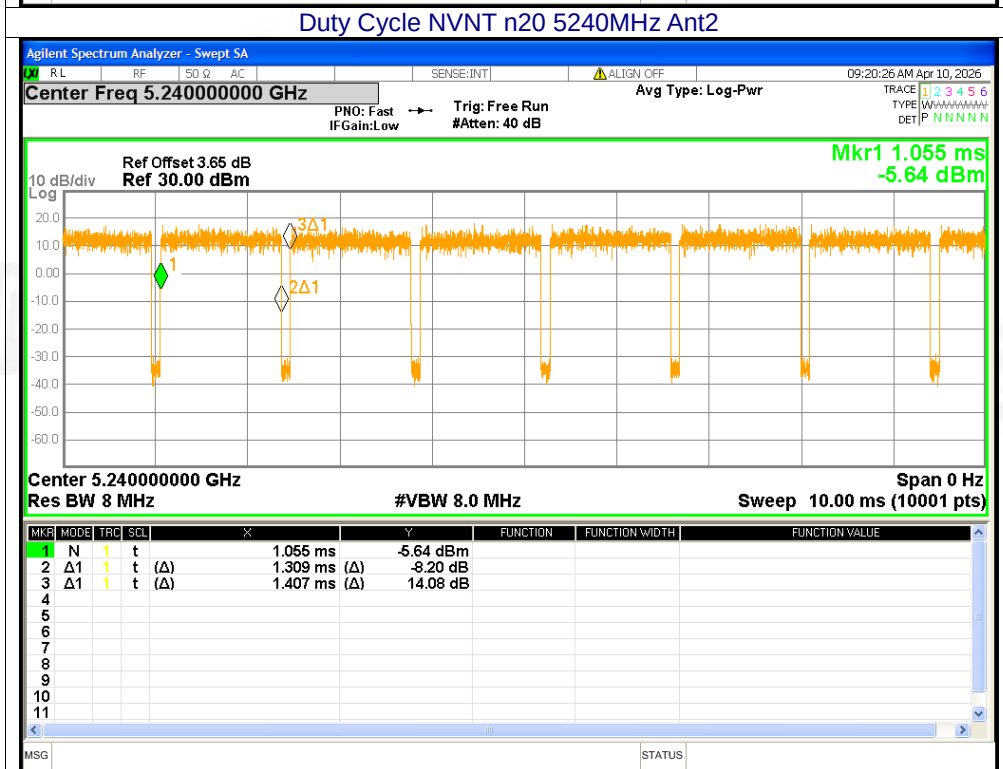
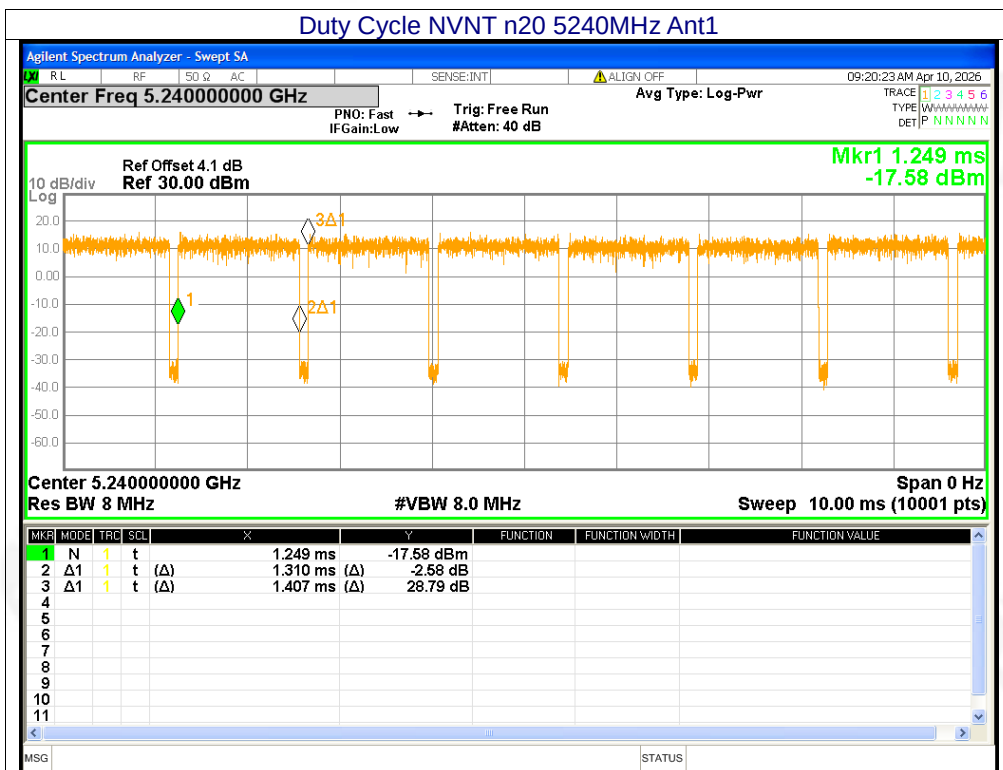


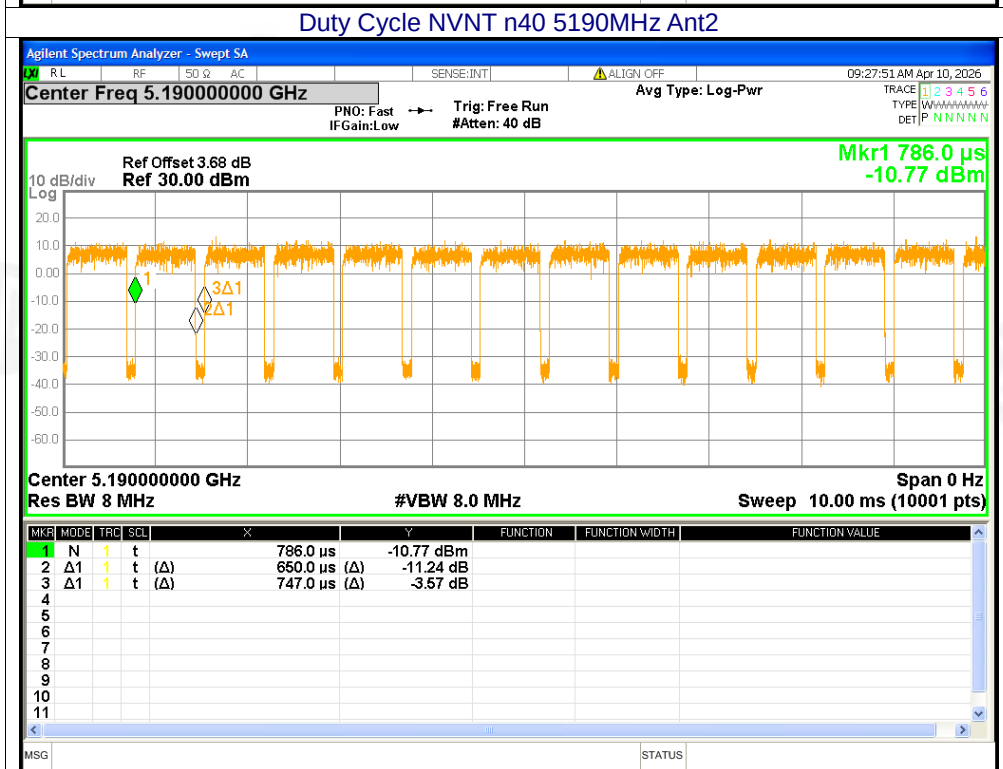
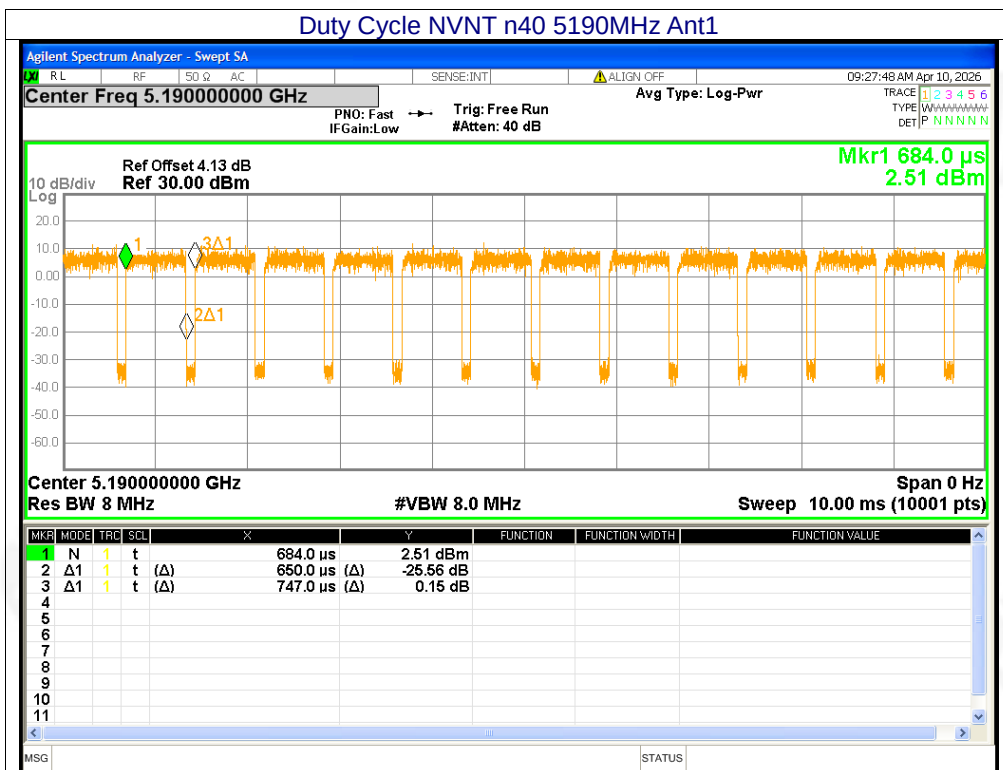
Duty Cycle NVNT a 5240MHz Ant2

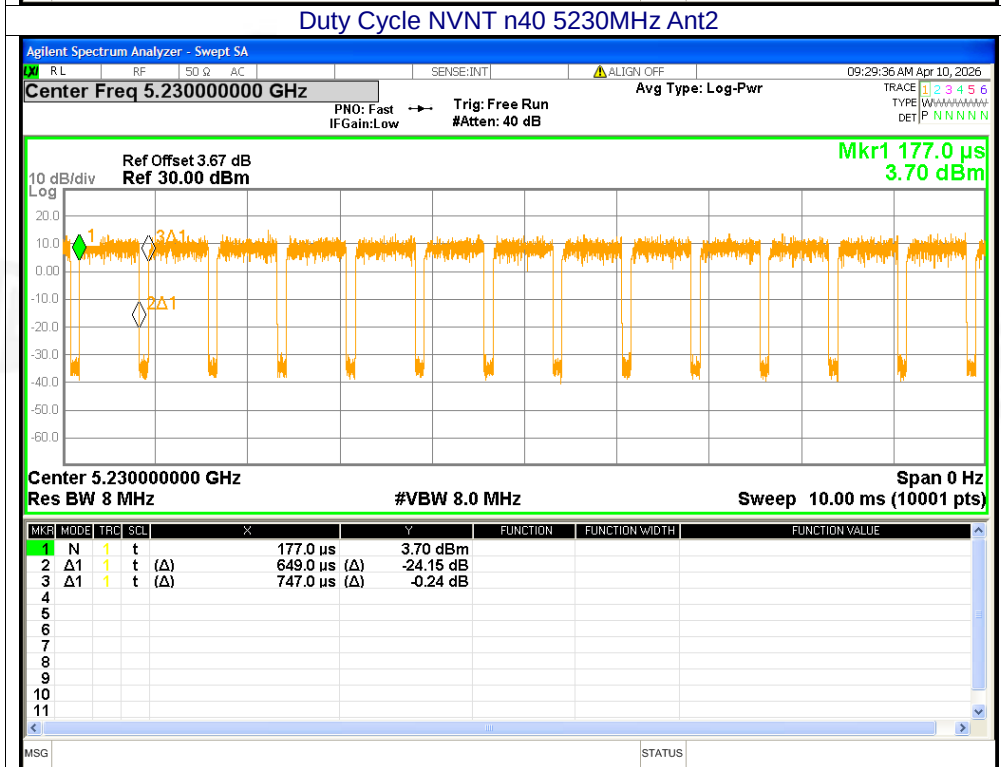
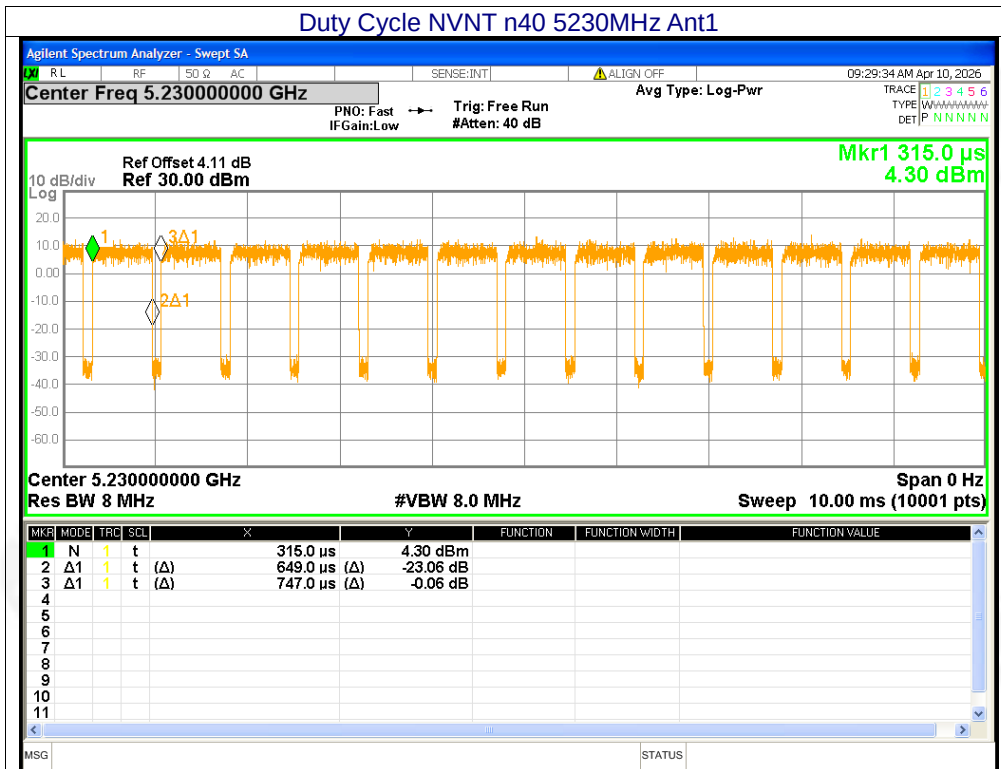


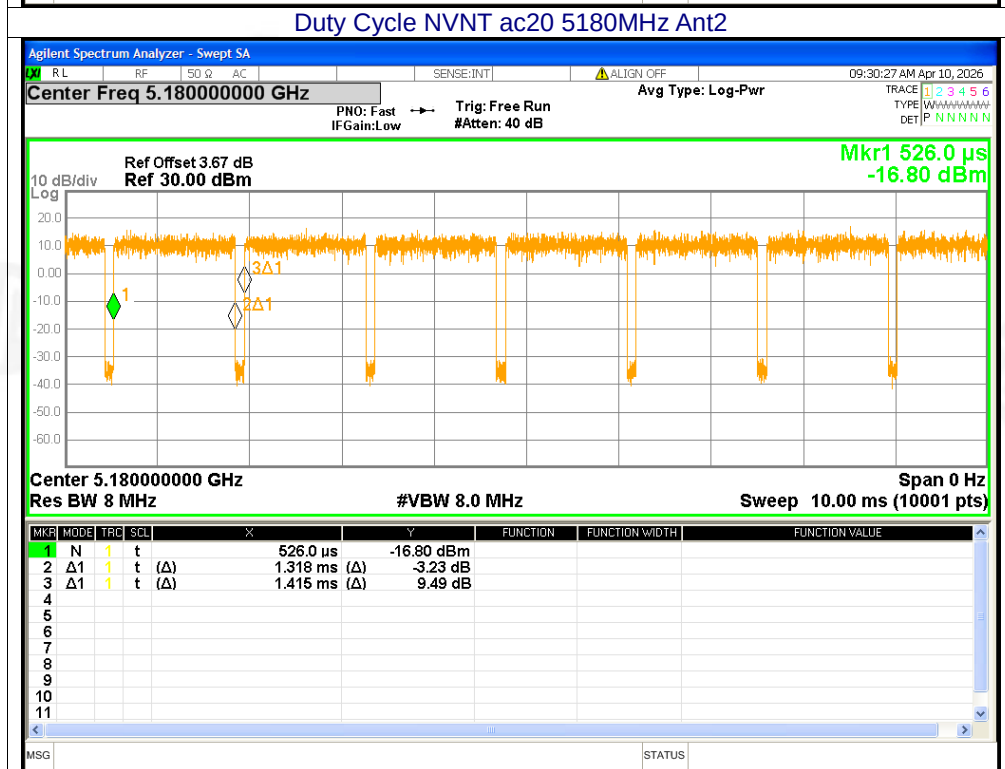
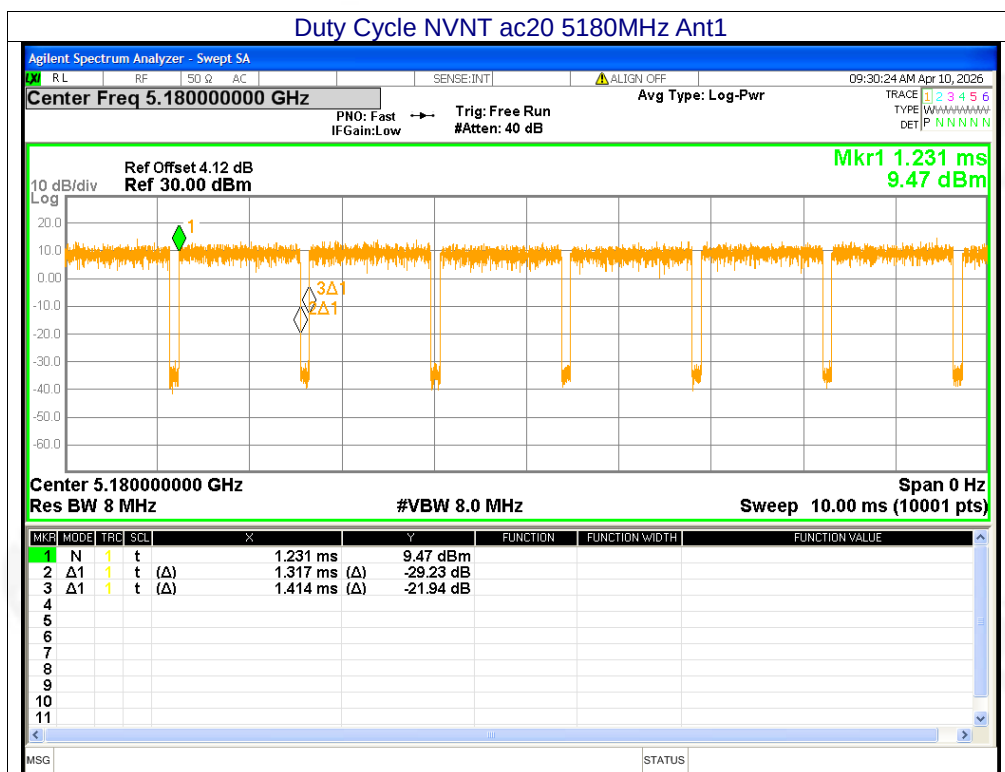


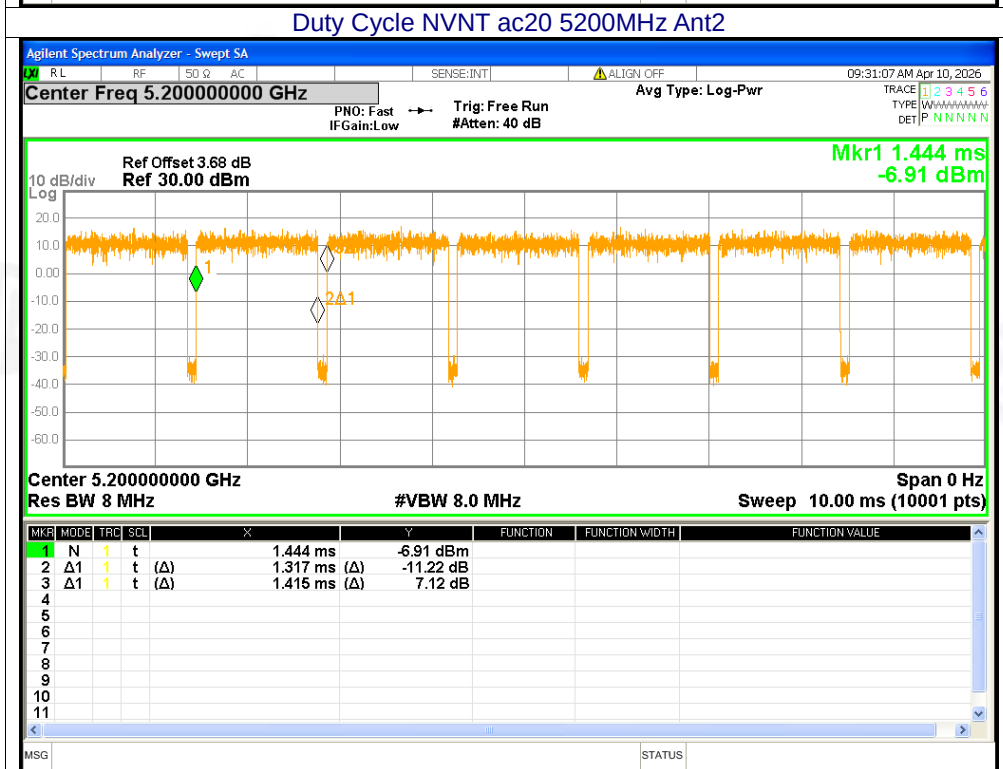
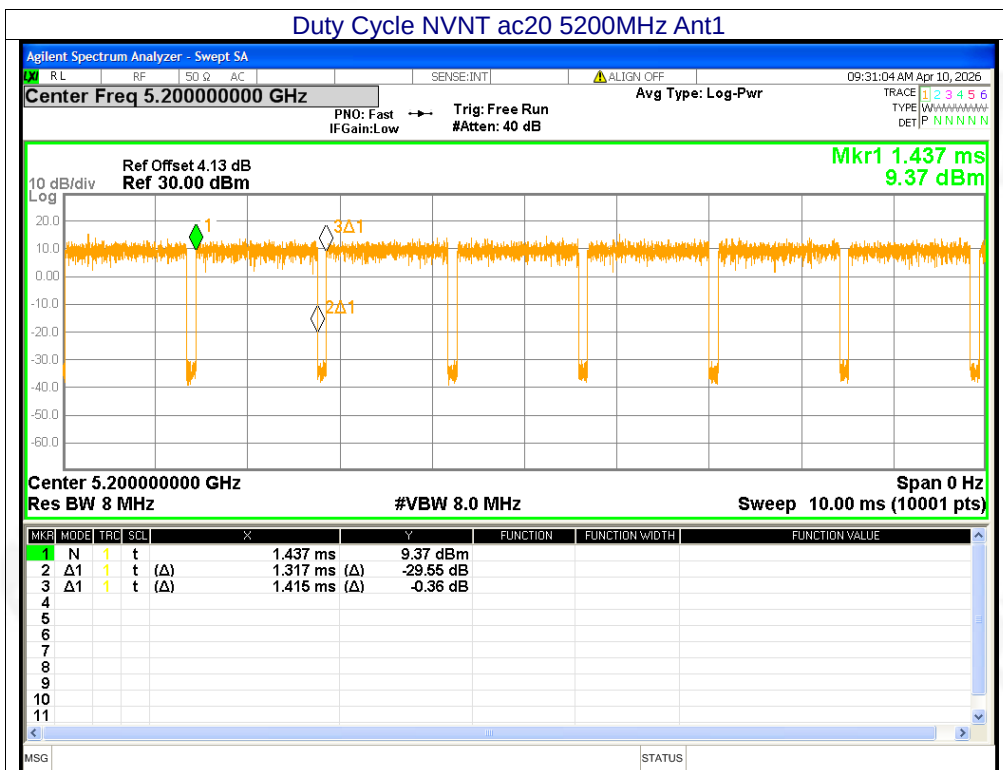


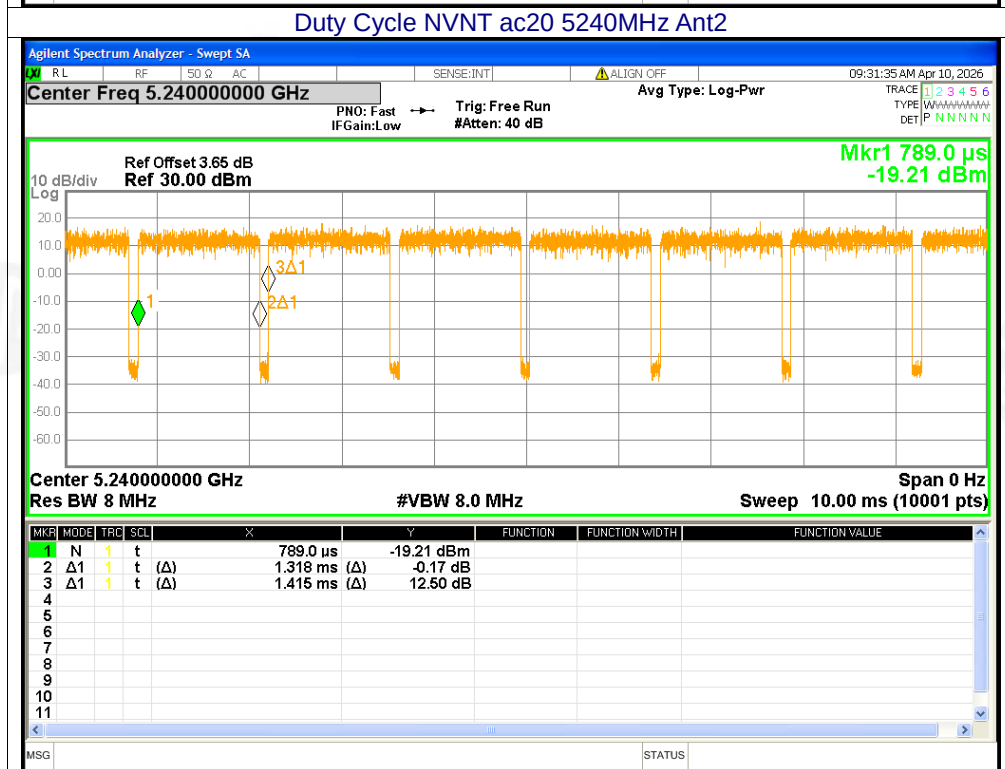
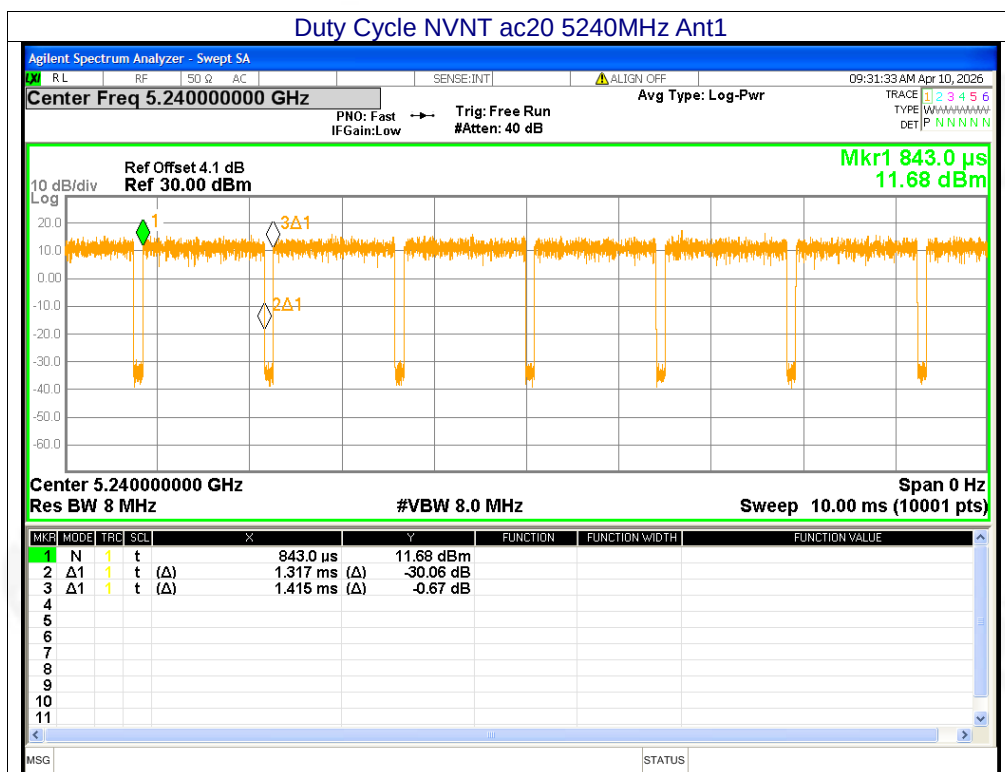


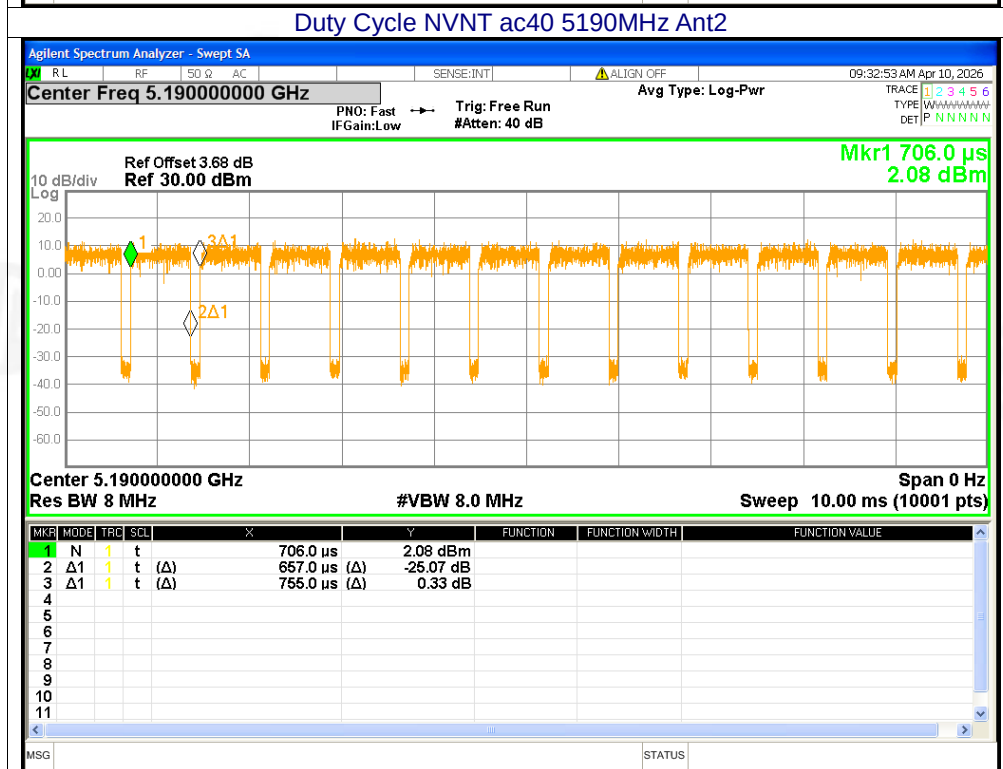
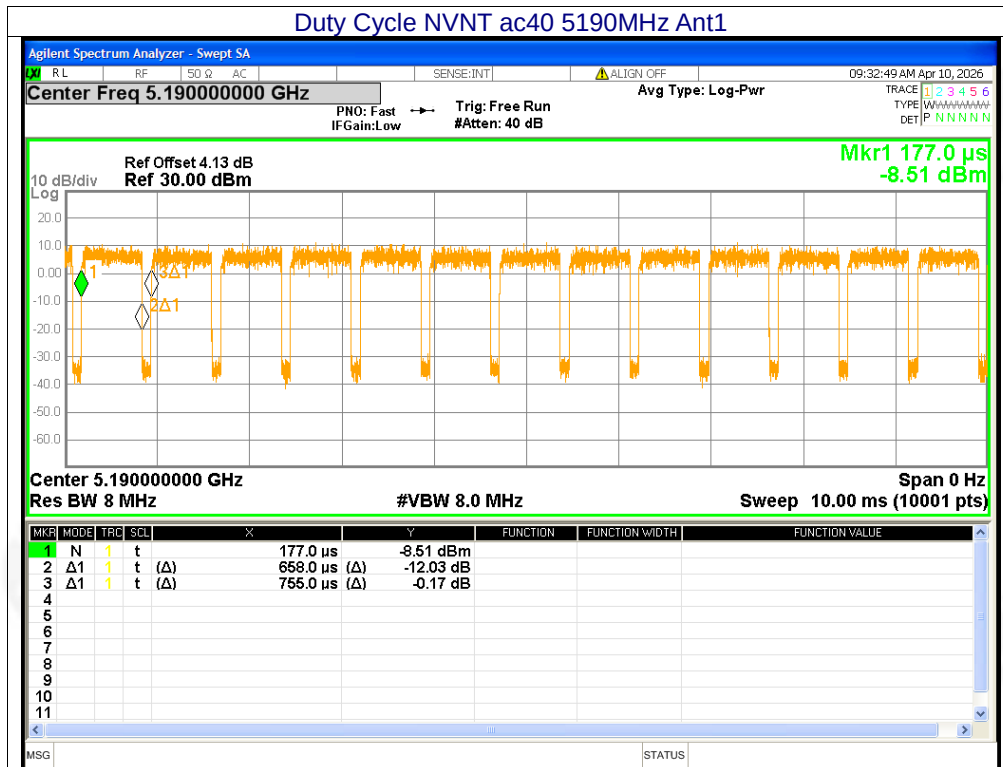


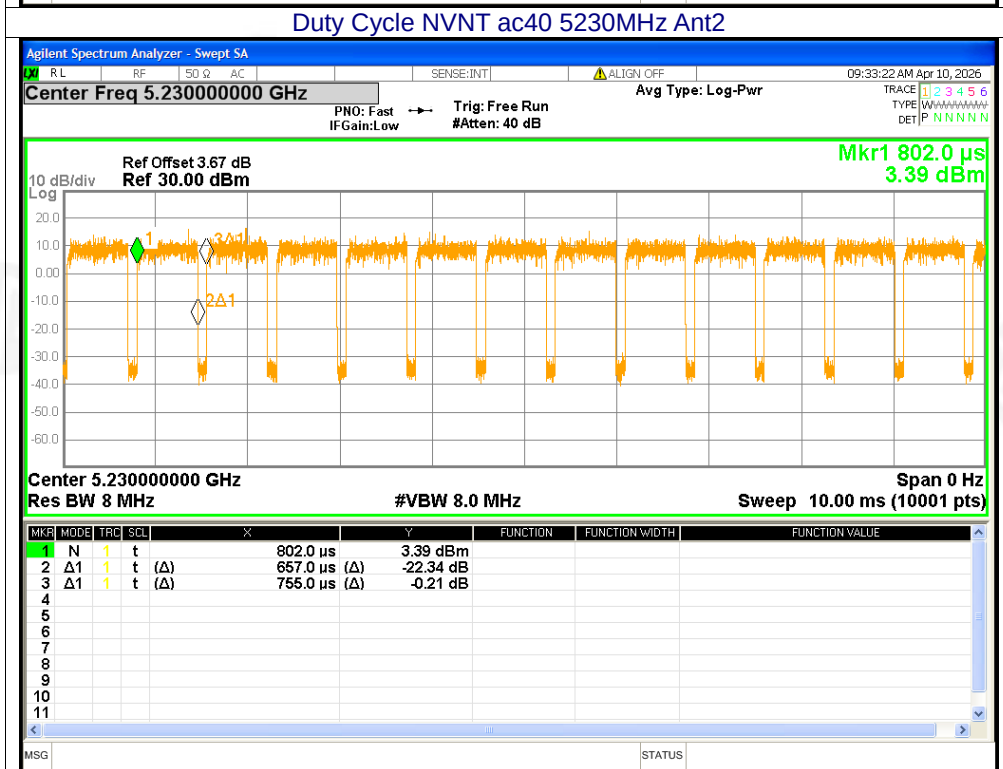
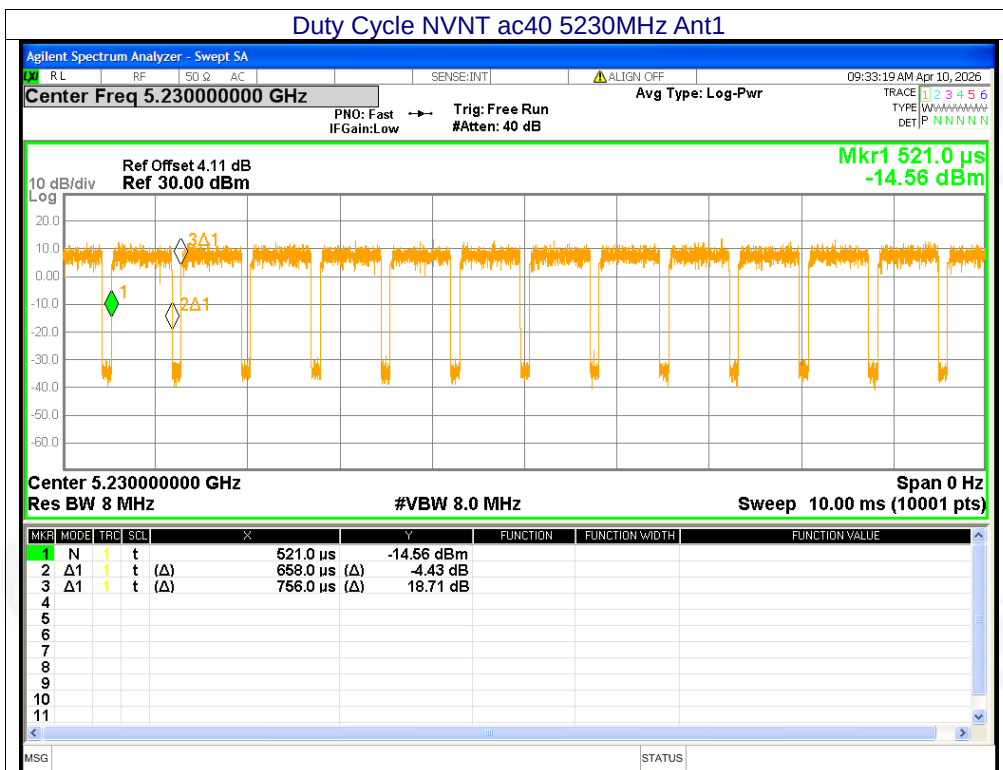


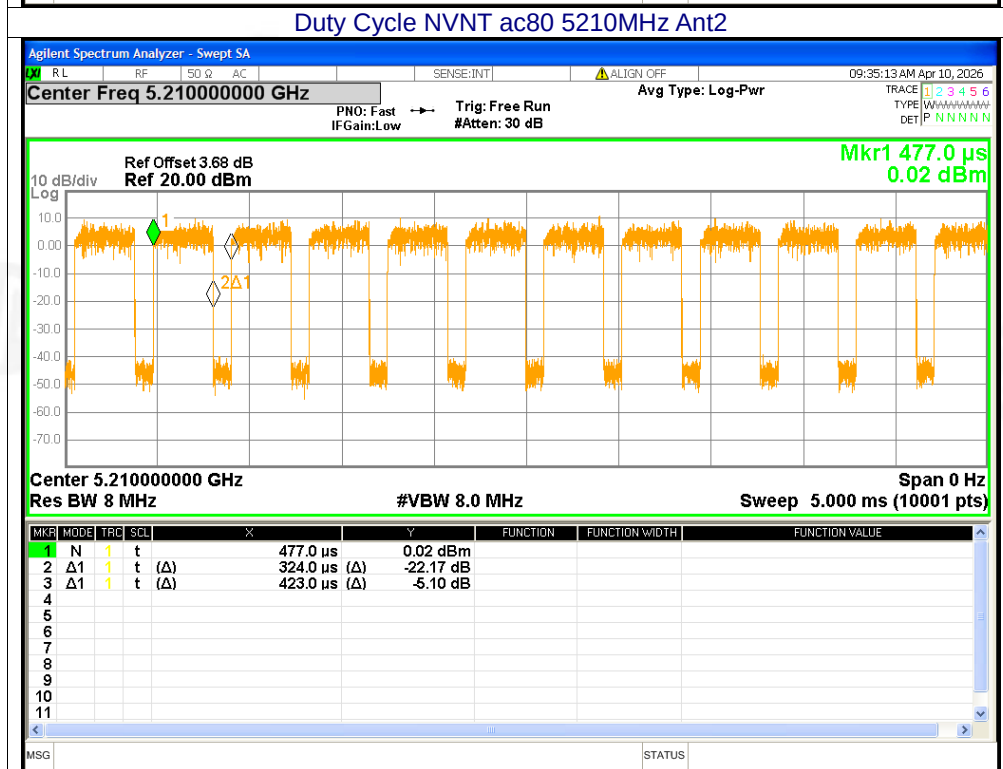
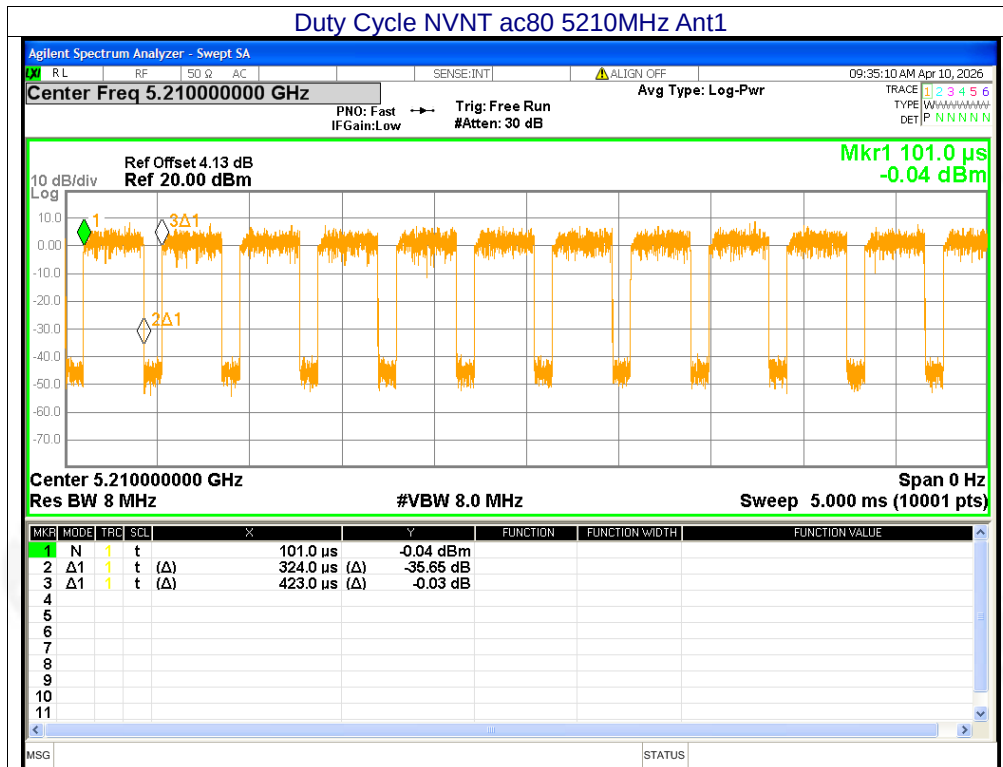


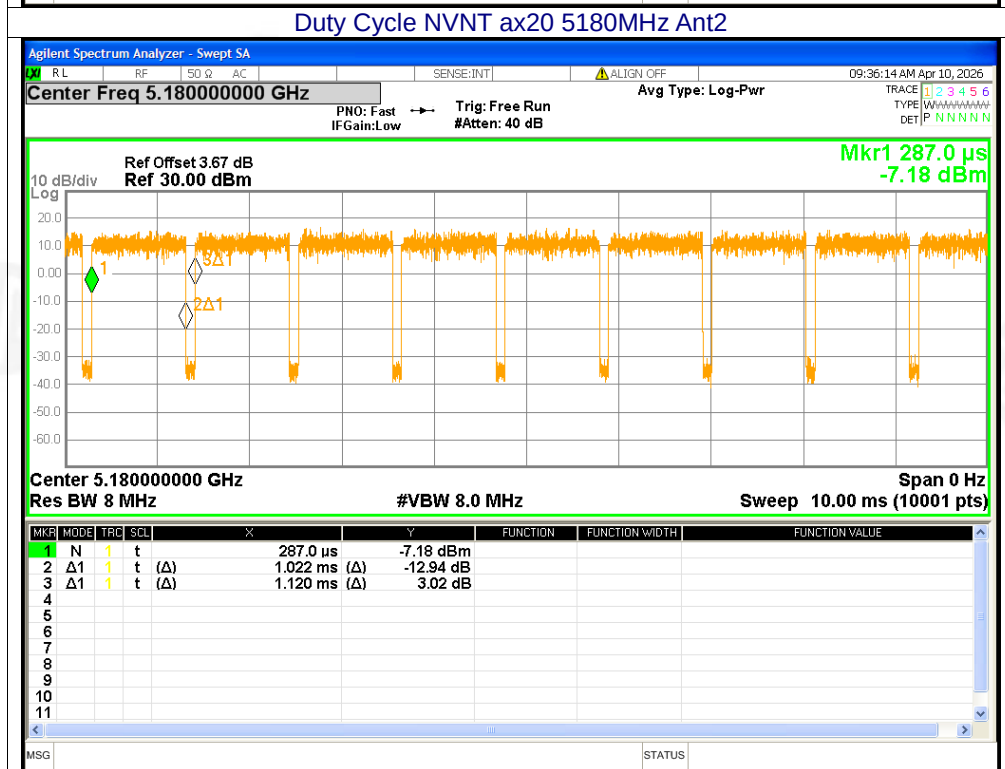
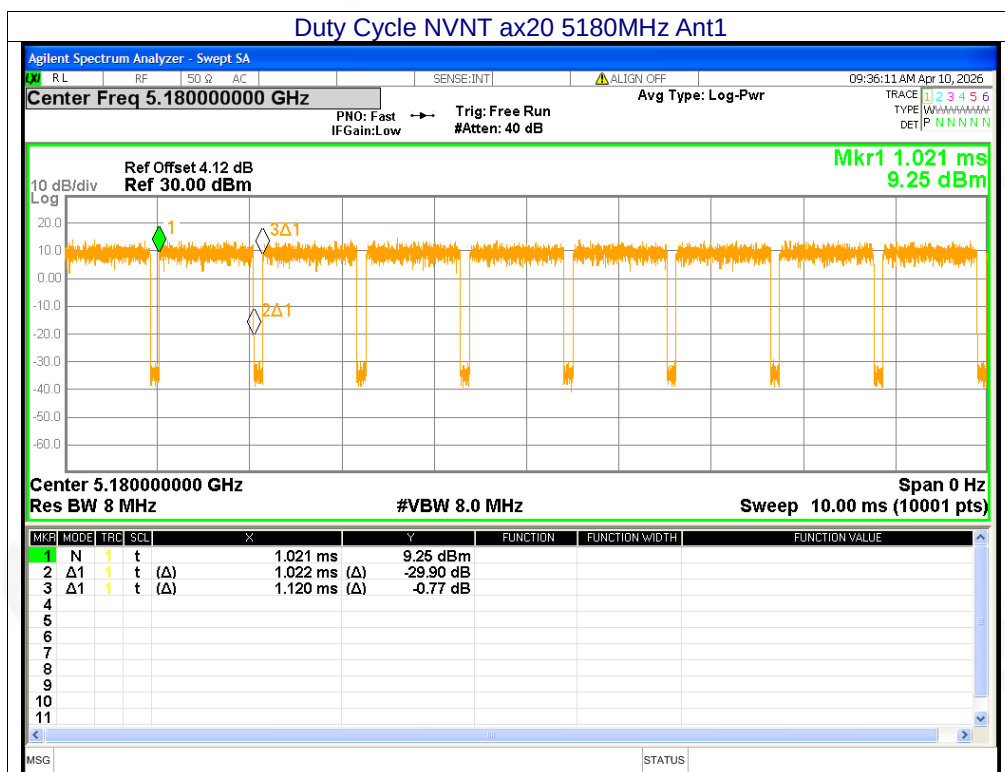


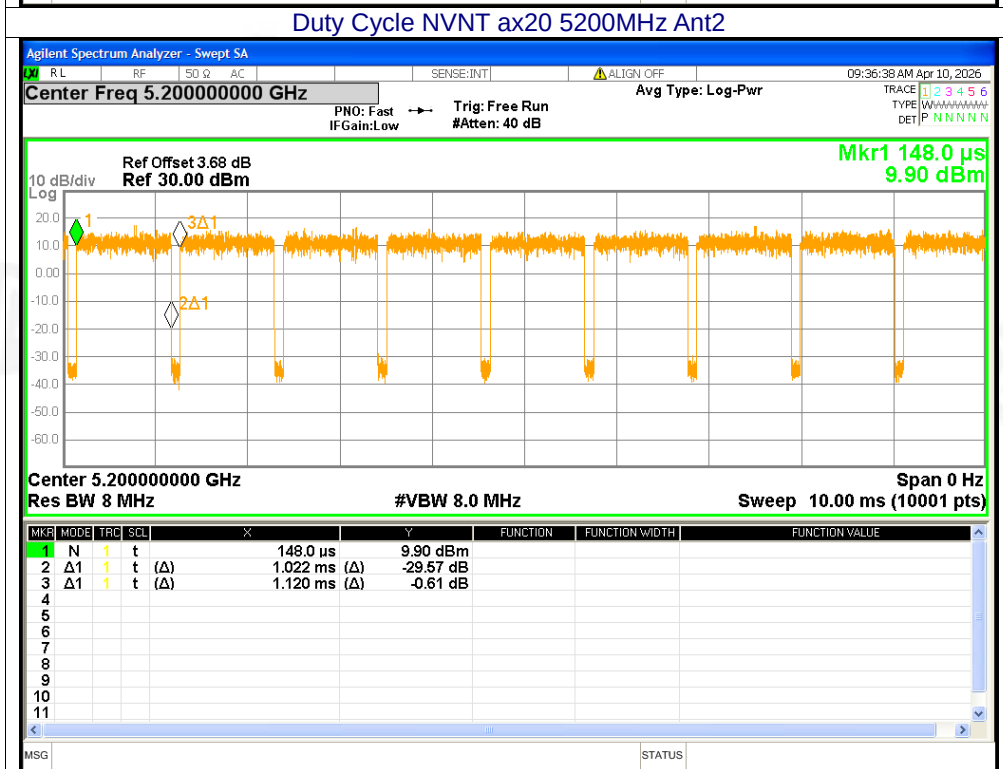
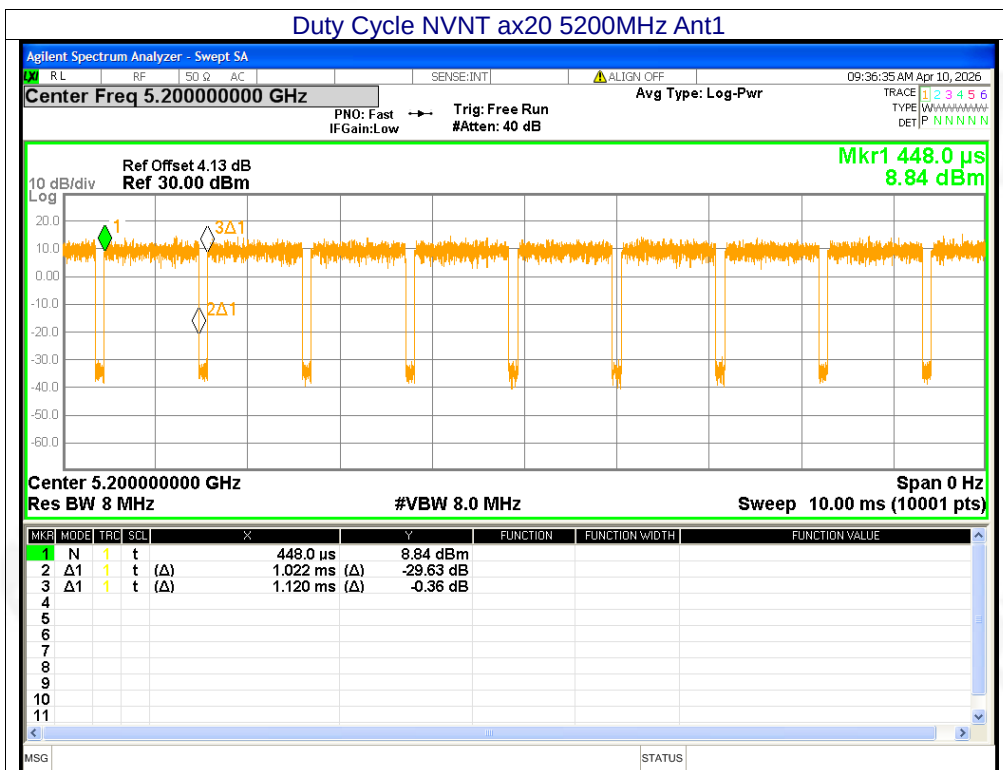


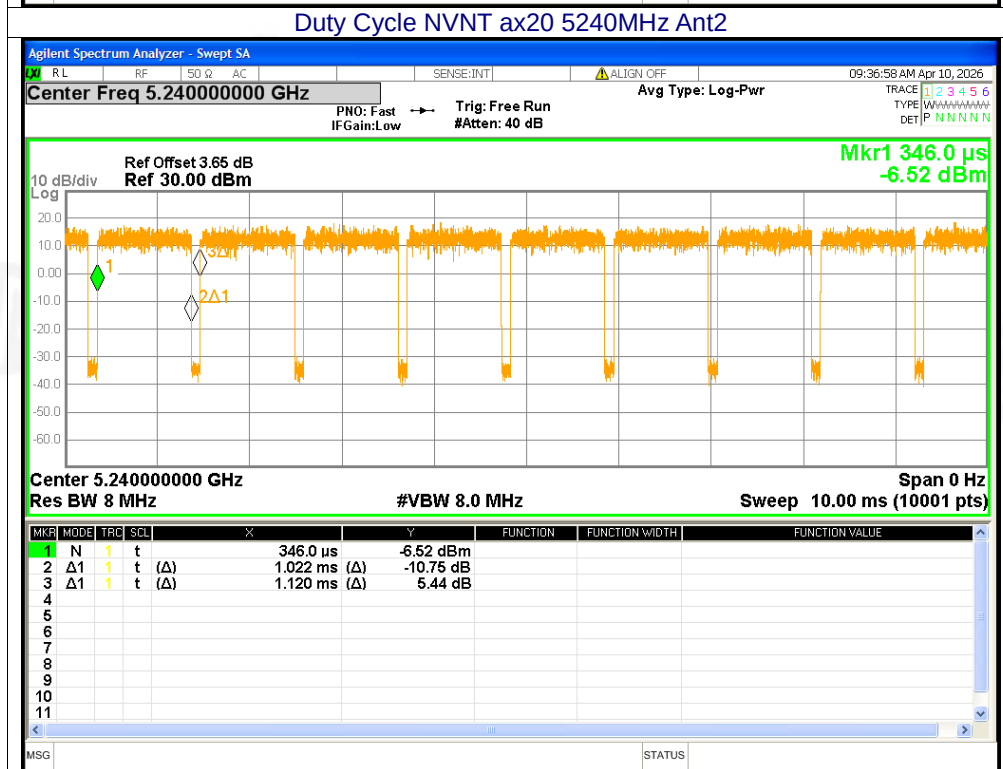
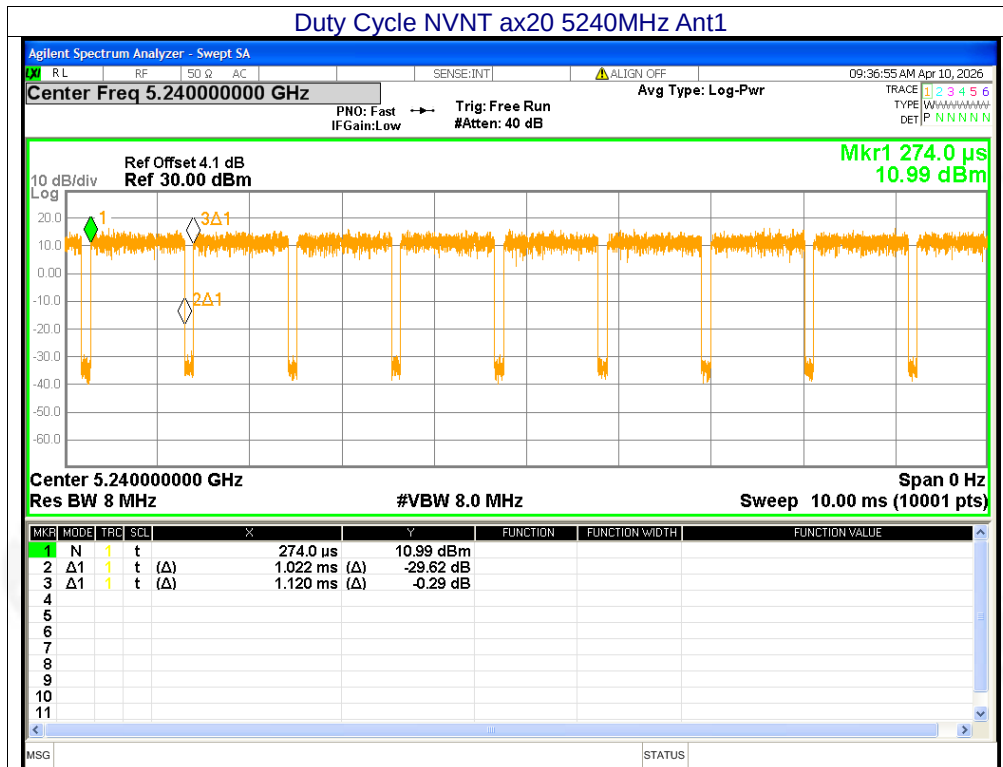


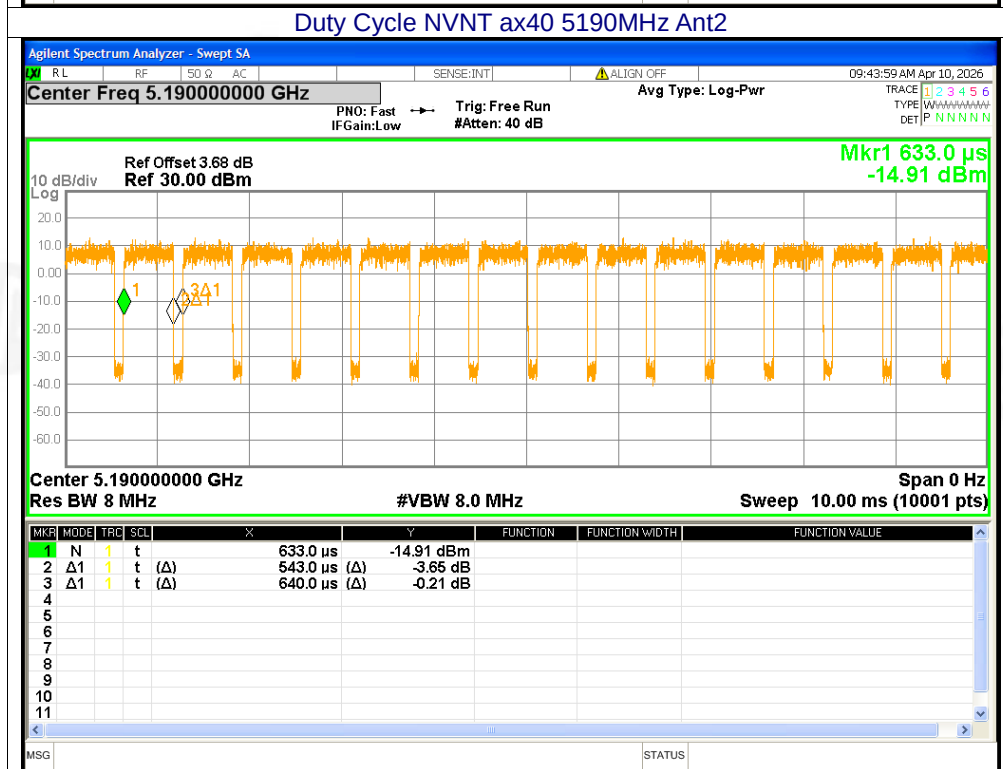
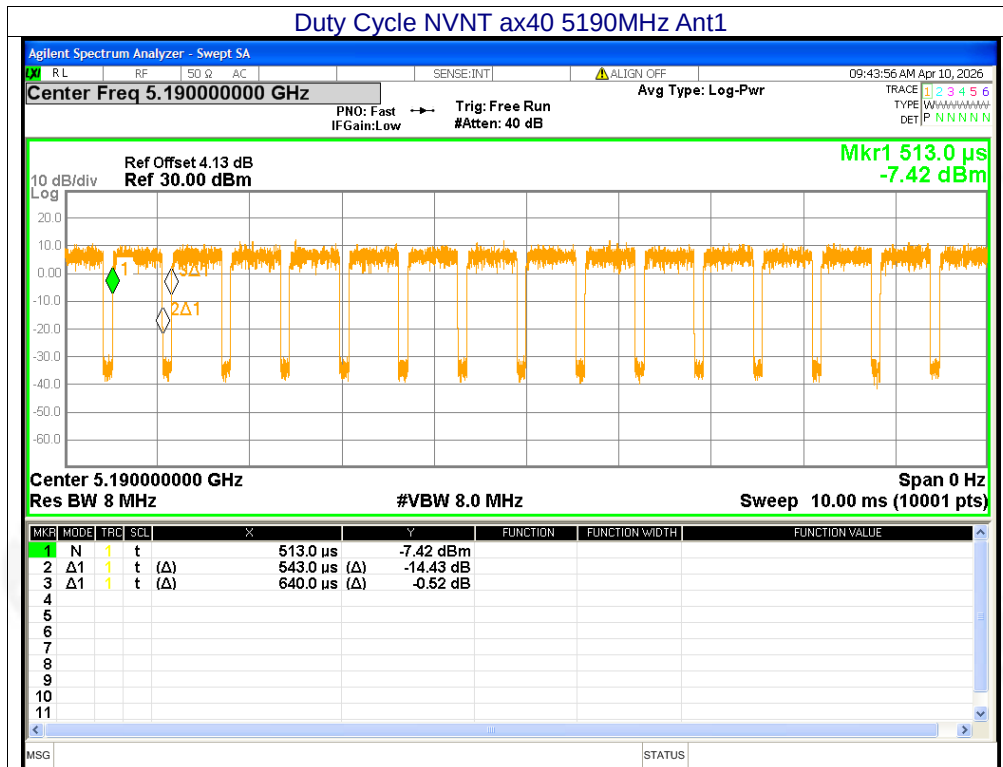


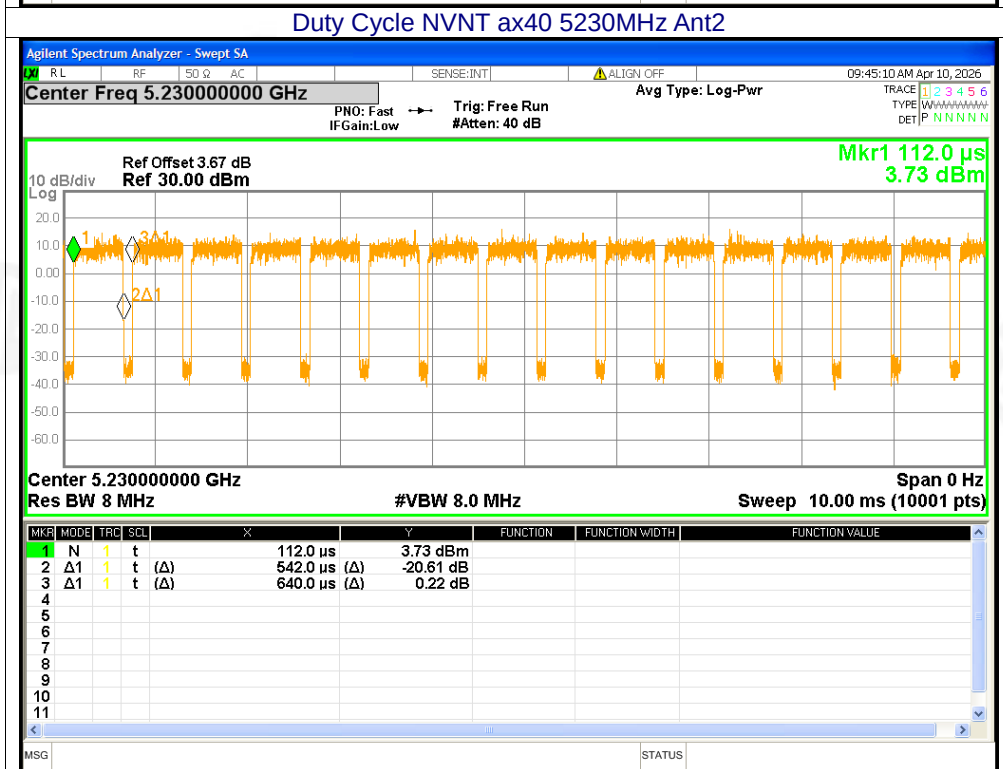
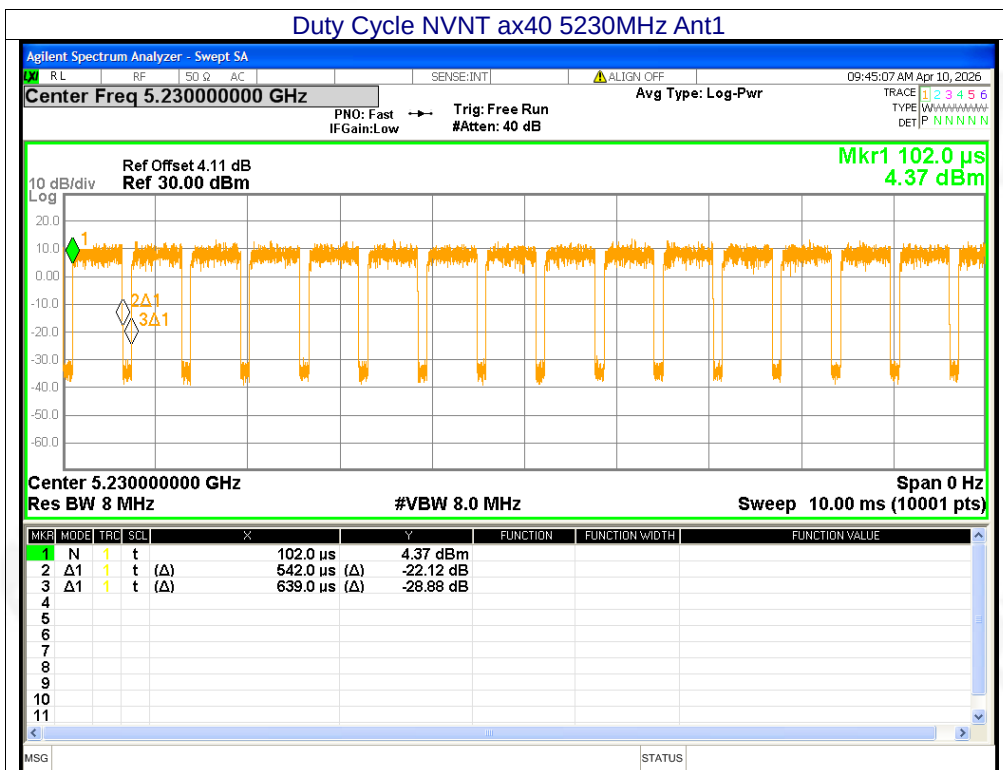


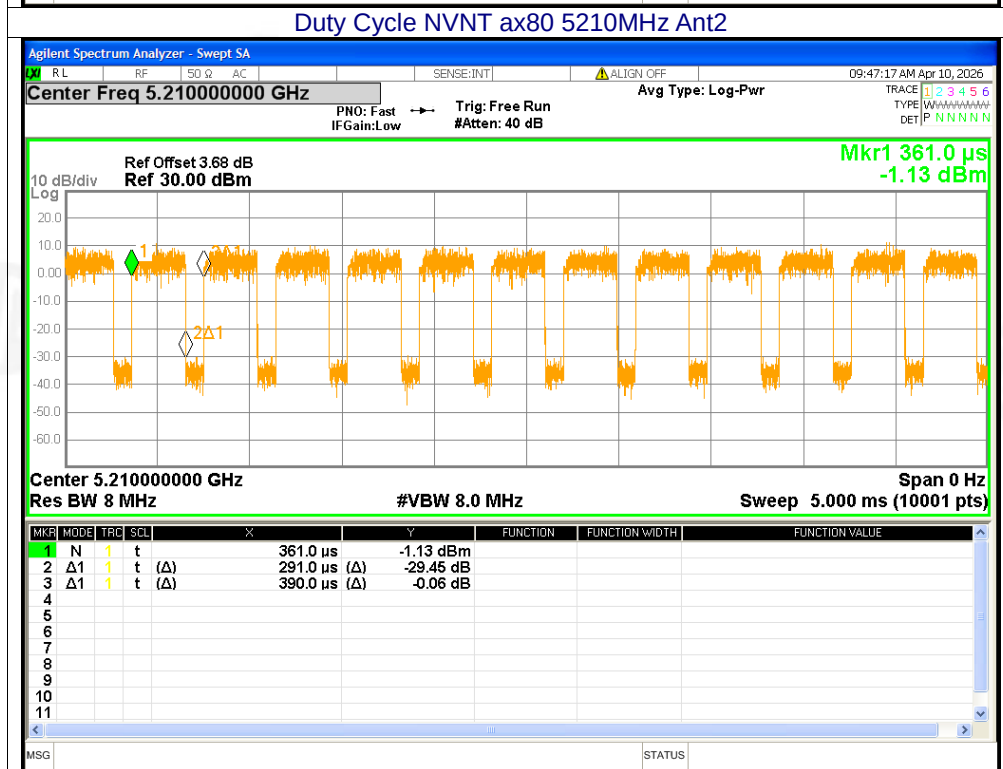
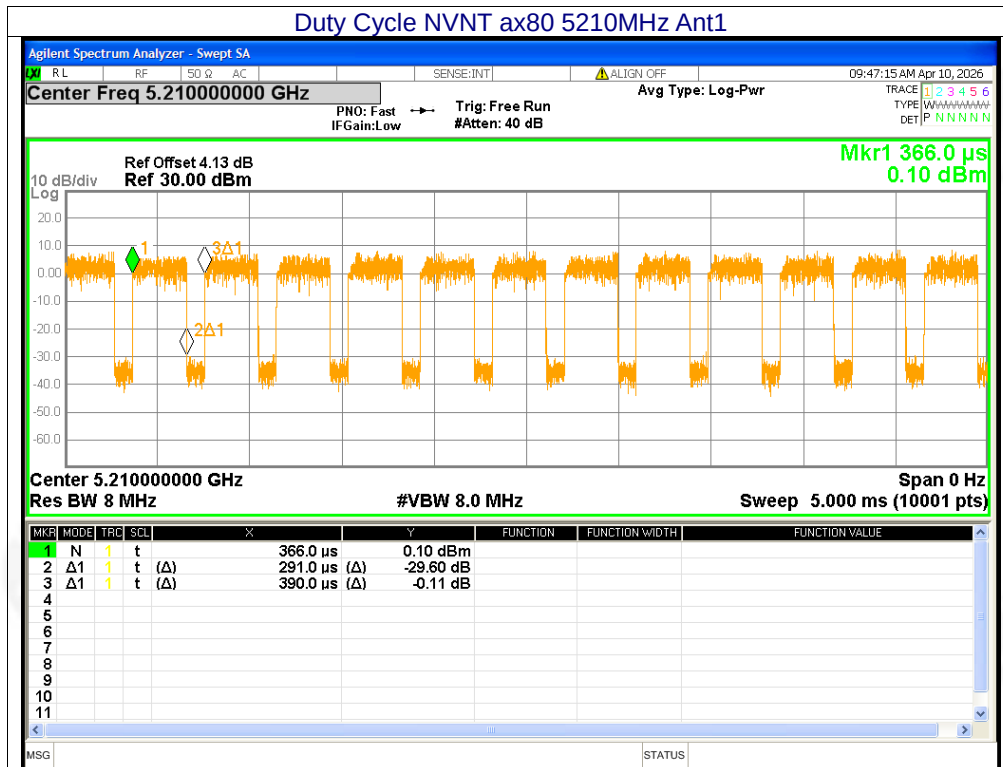














Maximum Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.35	0.29	10.64	<=24	Pass
NVNT	a	5200	Ant1	10.74	0.29	11.03	<=24	Pass
NVNT	a	5240	Ant1	12.37	0.29	12.66	<=24	Pass
NVNT	a	5180	Ant2	10.43	0.29	10.72	<=24	Pass
NVNT	a	5200	Ant2	11.3	0.29	11.59	<=24	Pass
NVNT	a	5240	Ant2	11.83	0.29	12.12	<=24	Pass
NVNT	n20	5180	Ant1	8.48	0.31	8.79	<=24	Pass
NVNT	n20	5180	Ant2	8.73	0.31	9.04	<=24	Pass
NVNT	n20	5180	MIMO	-	-	11.93	<=24	Pass
NVNT	n20	5200	Ant1	9.02	0.31	9.33	<=24	Pass
NVNT	n20	5200	Ant2	9.68	0.31	9.99	<=24	Pass
NVNT	n20	5200	MIMO	-	-	12.68	<=24	Pass
NVNT	n20	5240	Ant1	10.98	0.31	11.29	<=24	Pass
NVNT	n20	5240	Ant2	10.43	0.31	10.74	<=24	Pass
NVNT	n20	5240	MIMO	-	-	14.03	<=24	Pass
NVNT	n40	5190	Ant1	8.08	0.6	8.68	<=24	Pass
NVNT	n40	5190	Ant2	8.22	0.6	8.82	<=24	Pass
NVNT	n40	5190	MIMO	-	-	11.76	<=24	Pass
NVNT	n40	5230	Ant1	10.11	0.61	10.72	<=24	Pass
NVNT	n40	5230	Ant2	9.57	0.61	10.18	<=24	Pass
NVNT	n40	5230	MIMO	-	-	13.47	<=24	Pass
NVNT	ac20	5180	Ant1	7.18	0.31	7.49	<=24	Pass
NVNT	ac20	5180	Ant2	7.48	0.31	7.79	<=24	Pass
NVNT	ac20	5180	MIMO	-	-	10.65	<=24	Pass
NVNT	ac20	5200	Ant1	7.76	0.31	8.07	<=24	Pass
NVNT	ac20	5200	Ant2	8.37	0.31	8.68	<=24	Pass
NVNT	ac20	5200	MIMO	-	-	11.4	<=24	Pass
NVNT	ac20	5240	Ant1	9.84	0.31	10.15	<=24	Pass
NVNT	ac20	5240	Ant2	9.32	0.31	9.63	<=24	Pass
NVNT	ac20	5240	MIMO	-	-	12.91	<=24	Pass
NVNT	ac40	5190	Ant1	8.15	0.6	8.75	<=24	Pass
NVNT	ac40	5190	Ant2	8.2	0.6	8.8	<=24	Pass
NVNT	ac40	5190	MIMO	-	-	11.79	<=24	Pass
NVNT	ac40	5230	Ant1	10.06	0.6	10.66	<=24	Pass
NVNT	ac40	5230	Ant2	9.74	0.6	10.34	<=24	Pass
NVNT	ac40	5230	MIMO	-	-	13.51	<=24	Pass
NVNT	ac80	5210	Ant1	8.19	1.16	9.35	<=24	Pass
NVNT	ac80	5210	Ant2	8.53	1.16	9.69	<=24	Pass
NVNT	ac80	5210	MIMO	-	-	12.53	<=24	Pass
NVNT	ax20	5180	Ant1	7.07	0.4	7.47	<=24	Pass
NVNT	ax20	5180	Ant2	7.6	0.4	8	<=24	Pass
NVNT	ax20	5180	MIMO	-	-	10.75	<=24	Pass
NVNT	ax20	5200	Ant1	7.82	0.4	8.22	<=24	Pass
NVNT	ax20	5200	Ant2	8.41	0.4	8.81	<=24	Pass
NVNT	ax20	5200	MIMO	-	-	11.54	<=24	Pass
NVNT	ax20	5240	Ant1	9.62	0.4	10.02	<=24	Pass
NVNT	ax20	5240	Ant2	9.31	0.4	9.71	<=24	Pass
NVNT	ax20	5240	MIMO	-	-	12.88	<=24	Pass
NVNT	ax40	5190	Ant1	8.28	0.71	8.99	<=24	Pass
NVNT	ax40	5190	Ant2	8.42	0.71	9.13	<=24	Pass
NVNT	ax40	5190	MIMO	-	-	12.07	<=24	Pass
NVNT	ax40	5230	Ant1	10.25	0.72	10.97	<=24	Pass
NVNT	ax40	5230	Ant2	9.74	0.72	10.46	<=24	Pass
NVNT	ax40	5230	MIMO	-	-	13.73	<=24	Pass
NVNT	ax80	5210	Ant1	8.45	1.27	9.72	<=24	Pass
NVNT	ax80	5210	Ant2	8.71	1.27	9.98	<=24	Pass
NVNT	ax80	5210	MIMO	-	-	12.86	<=24	Pass

