



FCC Part 15C Test Report

FCC ID:UU8-JCAI601

Report Number.....: ZKT-260730L2048E-2

Date of Test..... May. 06, 2026 to May. 22, 2026

Date of issue.....: May. 22, 2026

Total number of pages..... 131

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: Lexibook America

Address: C/O Pramex International 1251 Avenue of the Americas, 3rd Fl., New York United States

Manufacturer's name: Lexibook America

Address: C/O Pramex International 1251 Avenue of the Americas, 3rd Fl., New York United States

Test specification:

Standard.....: FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020+Cor 1-2023

Test procedure.....: /

Non-standard test method: N/A

Test Report Form No.....: TRF-EL-112_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF: Dated: 2021-04-22

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.....: ELO POWER KID A.I. LAPTOP

Trademark: LEXIBOOK

Model/Type reference.....: JCAI601i1

Ratings.....: Input: DC 5V 2A



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-260730L2048E-2	Rev.01	Initial issue of report	May. 22, 2026



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	6dB Occupied Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	
ANSI C63.10-2020+Cor 1-2023	Duty cycle	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=4.5dB
2	3m chamber Radiated spurious emission (30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission (1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission (6GHz-40GHz)	U=5.0dB
5	Conducted Disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF Power Conducted	U=1.86dB
8	RF Conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	Humidity Uncertainty	U=5.3%
12	Temperature Uncertainty	U=0.59°C
13	Duty Cycle	U=1.3dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	ELO POWER KID A.I. LAPTOP
Trade Mark:	LEXIBOOK
Model No.:	JCAI601i1
Serial No.:	N/A
Model Different.:	N/A
Hardware Version:	tuyaos_demo_ai_toy_QIO_1.0.35
Software Version:	DR-T5AI-EVB_V0.1
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/g/n/ax20:11 CH 802.11n/ax40: 7 CH
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/n/ax: Orthogonal Frequency Division Multiplexing(OFDM)
Data Rate	802.11b: 1/2/5.5/11Mbit/s 802.11g: 6/9/12/24/18/36/48/54Mbit/s 802.11n20/n40:MCS0-MCS7 802.11ax20/ax40: NSS1 MCS0-MCS7
Antenna Type:	FPCB
Antenna gain:	4dBi
Power supply:	Input: DC 5V 2A
Battery Capacity:	Model: JDX 103048 Brand: N/A Rated Voltage: 3.7V Capacity: 1500mAh

Note1: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Note2: The EUT's all information provided by client.

Note3: The 802.11ax mode only support full RU.



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

Test channel	Frequency (MHz)	
	802.11b/g/n20/ax20	802.11n40/ax40
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

3.2 DESCRIPTION OF TEST MODES

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. For battery operated equipment, the equipment tests shall be performed using a new battery.	

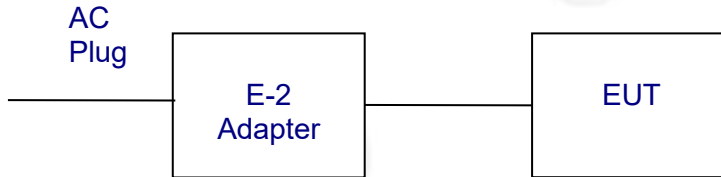
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n20/n40	802.11ax20/ax40
Data rate	1Mbps	6Mbps	MCS0(HT0)	NSS1 MCS0

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Test Software & Version
WIFI(2.4G)	2.4G WIFI	802.11b	4	12	Wifi_Test_Tool_V1.7.8.1
		802.11g		40	
		802.11n(HT20)		40	
		802.11n(HT40)		40	
		802.11ax(HE20)		40	
		802.11ax(HE40)		40	

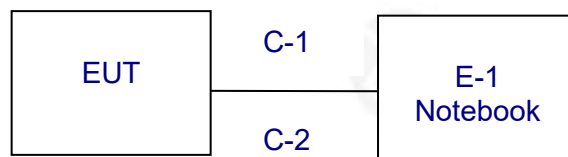


3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

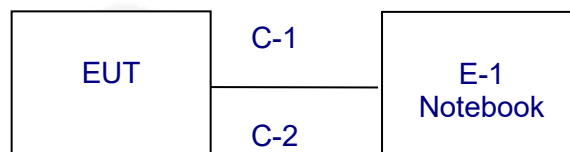
Conducted Emission



Radiated Emission



RF 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	ST2	N/A
E-2	Adapter	UGREEN	X569	N/A
C-1	Serial port board	XES	WTYZK	N/A
C-2	USB Cable	MI	RYEW3A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-2	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) EUT is tested with new battery.



3.5EQUIPMENTS 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 24, 2026
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 24, 2026
12	Test Cable	N/A	R-02	N/A	N/A	May 25, 2025	May 24, 2026
13	Test Cable	N/A	R-03	N/A	N/A	May 25, 2025	May 24, 2026
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 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
4	Test Cable	N/A	RF-02	N/A	N/A	May 25, 2025	May 24, 2026
5	Test Cable	N/A	RF-03	N/A	N/A	May 25, 2025	May 24, 2026
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344/M-1752	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	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
12	D.C. Power Supply	LongWei	TPR-6405 D	N/A	N/A	\	\
13	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
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

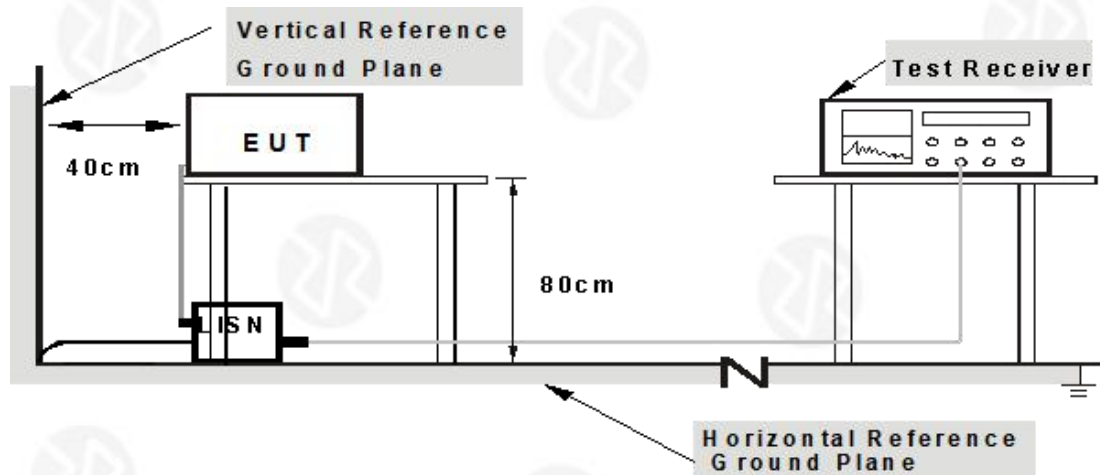
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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

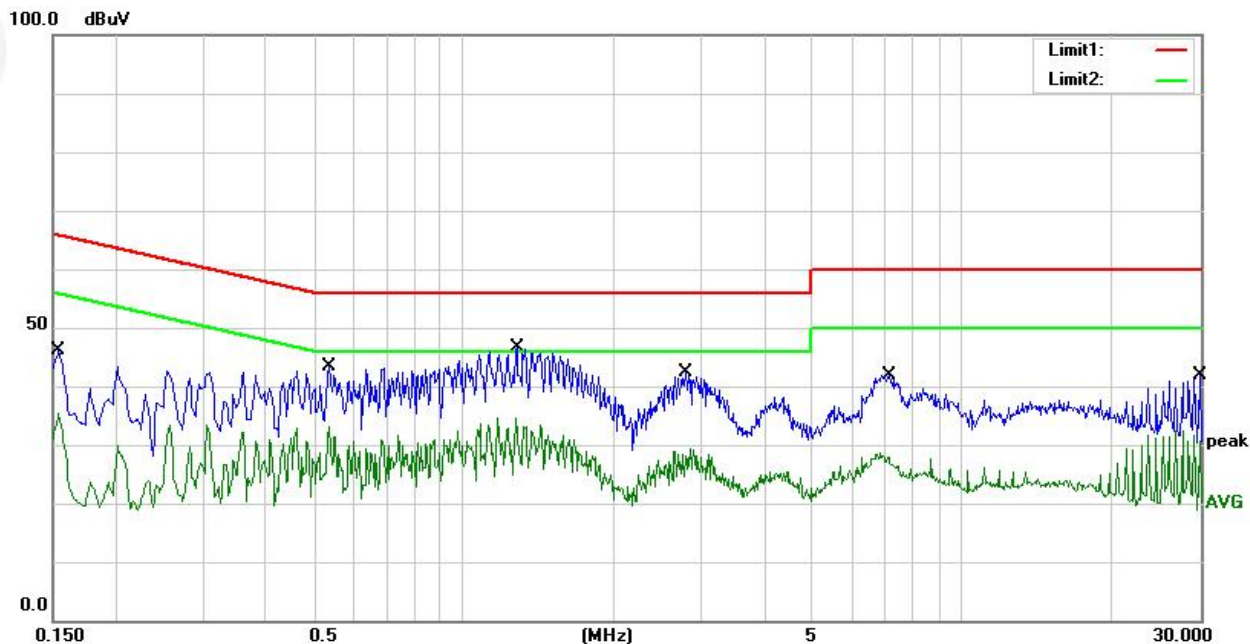
4.1.5 EUT OPERATING CONDITIONS

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 RESULT

Temperature:	26°C	Relative Humidity:	62.1%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	TX 802.11b - 2412MHz



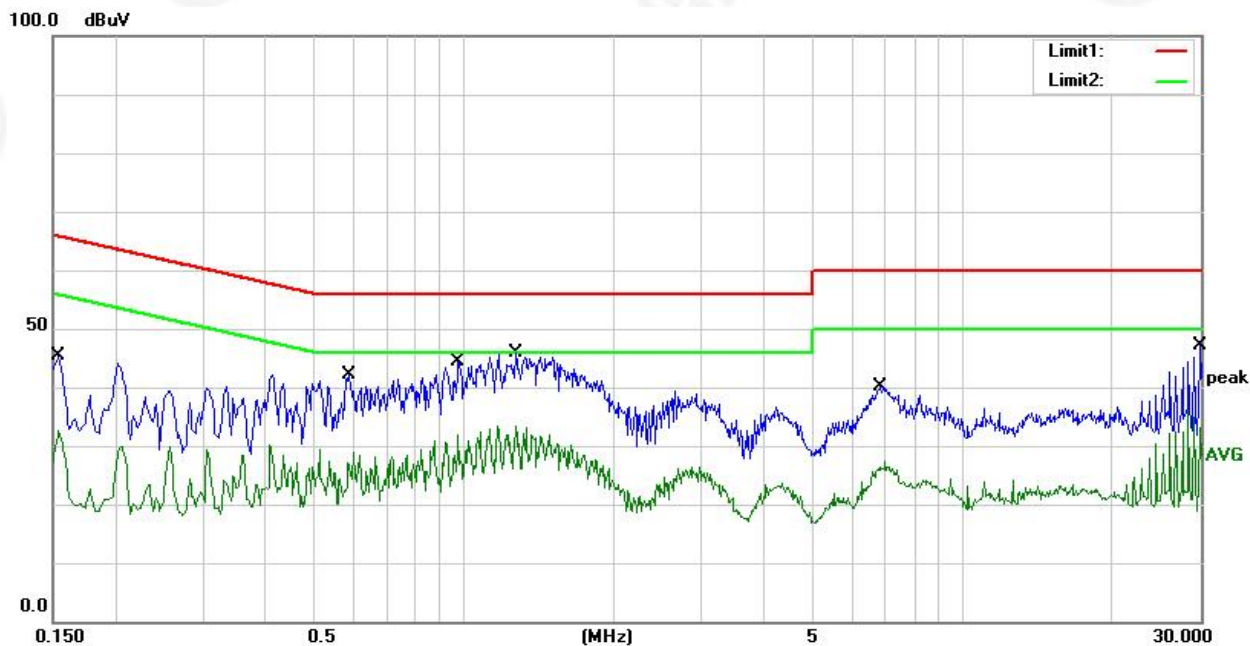
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1540	26.81	19.37	46.18	65.78	-19.60	QP
2	0.1540	16.12	19.37	35.49	55.78	-20.29	AVG
3	0.5380	24.03	19.39	43.42	56.00	-12.58	QP
4	0.5380	13.84	19.39	33.23	46.00	-12.77	AVG
5	1.2820	27.38	19.35	46.73	56.00	-9.27	QP
6	1.2820	15.24	19.35	34.59	46.00	-11.41	AVG
7	2.7940	22.93	19.39	42.32	56.00	-13.68	QP
8	2.7940	10.05	19.39	29.44	46.00	-16.56	AVG
9	7.1260	22.52	19.46	41.98	60.00	-18.02	QP
10	7.1260	5.83	19.46	25.29	50.00	-24.71	AVG
11	29.9340	22.29	19.61	41.90	60.00	-18.10	QP
12	29.9340	12.03	19.61	31.64	50.00	-18.36	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 caseTX 802.11b - 2412MHz.



Temperature:	26°C	Relative Humidity:	62.1%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	TX 802.11b - 2412MHz



	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1540	26.03	19.37	45.40	65.78	-20.38	QP
2	0.1540	13.31	19.37	32.68	55.78	-23.10	AVG
3	0.5900	22.67	19.38	42.05	56.00	-13.95	QP
4	0.5900	9.61	19.38	28.99	46.00	-17.01	AVG
5	0.9740	25.05	19.35	44.40	56.00	-11.60	QP
6	0.9740	12.42	19.35	31.77	46.00	-14.23	AVG
7	1.2700	26.42	19.35	45.77	56.00	-10.23	QP
8	1.2700	13.98	19.35	33.33	46.00	-12.67	AVG
9	6.8660	20.55	19.46	40.01	60.00	-19.99	QP
10	6.8660	6.89	19.46	26.35	50.00	-23.65	AVG
11	29.9460	27.55	19.61	47.16	60.00	-12.84	QP
12	29.9460	16.55	19.61	36.16	50.00	-13.84	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= Liss factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. The test data shows only the worst caseTX 802.11b - 2412MHz.



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10-2020+Cor 1-2023				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

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).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.



- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

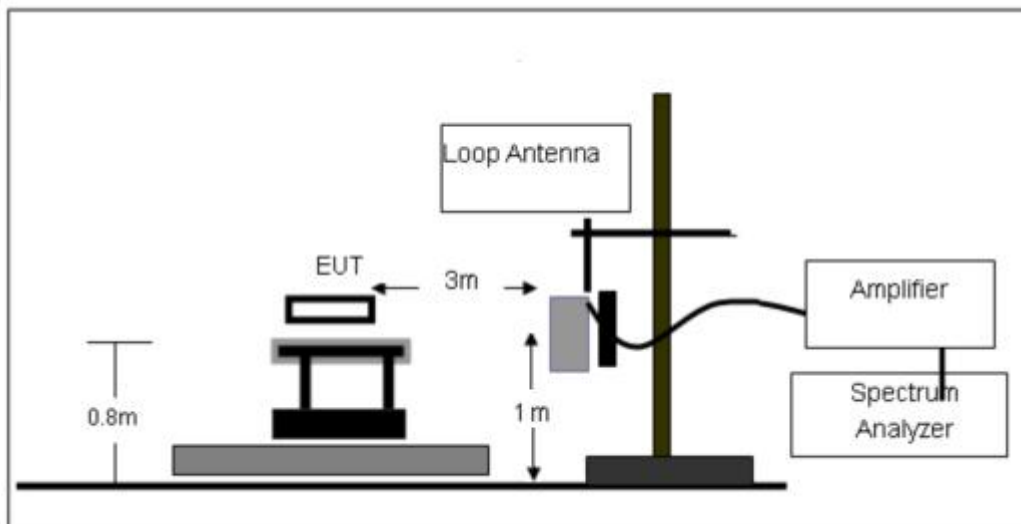
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

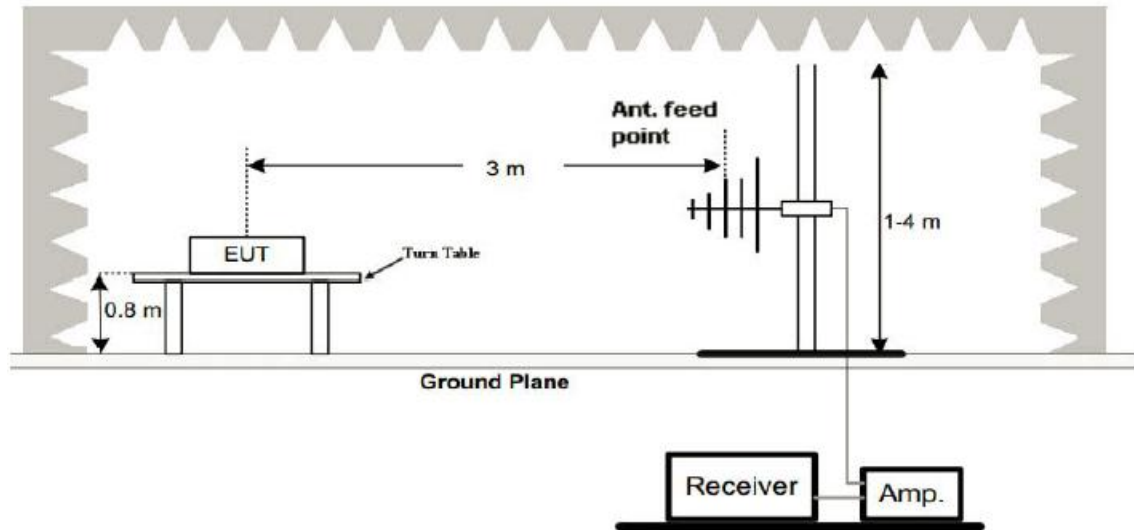
4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

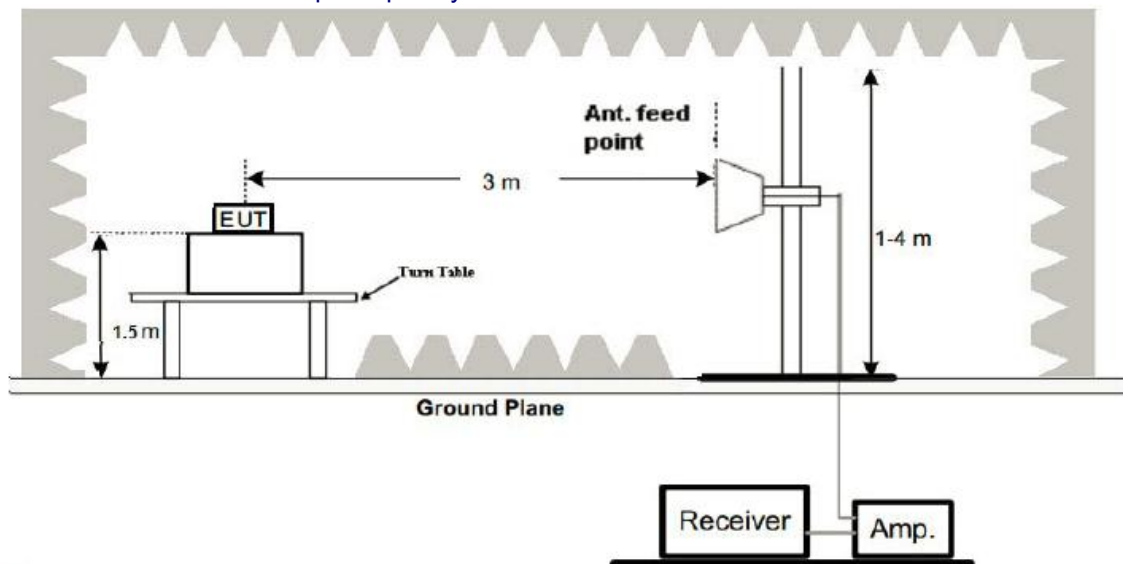




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

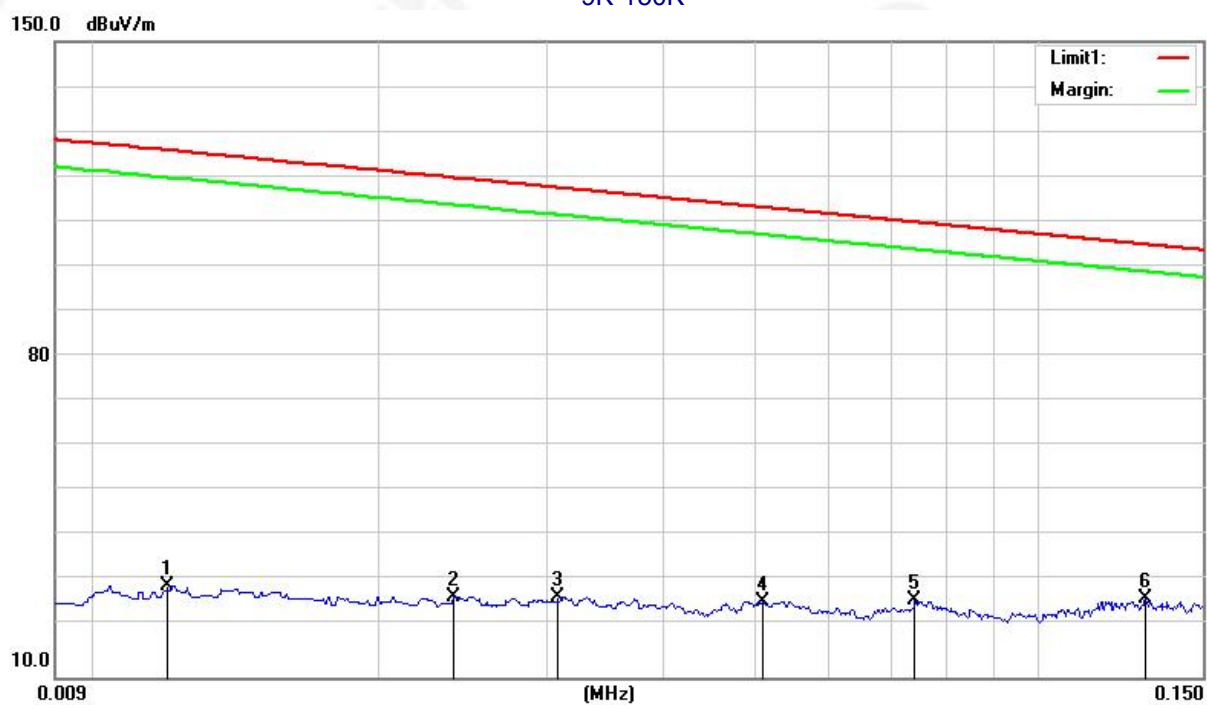


4.2.6 TEST RESULTS

Between 9KHz – 30MHz

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	TX 802.11b - 2412MHz		

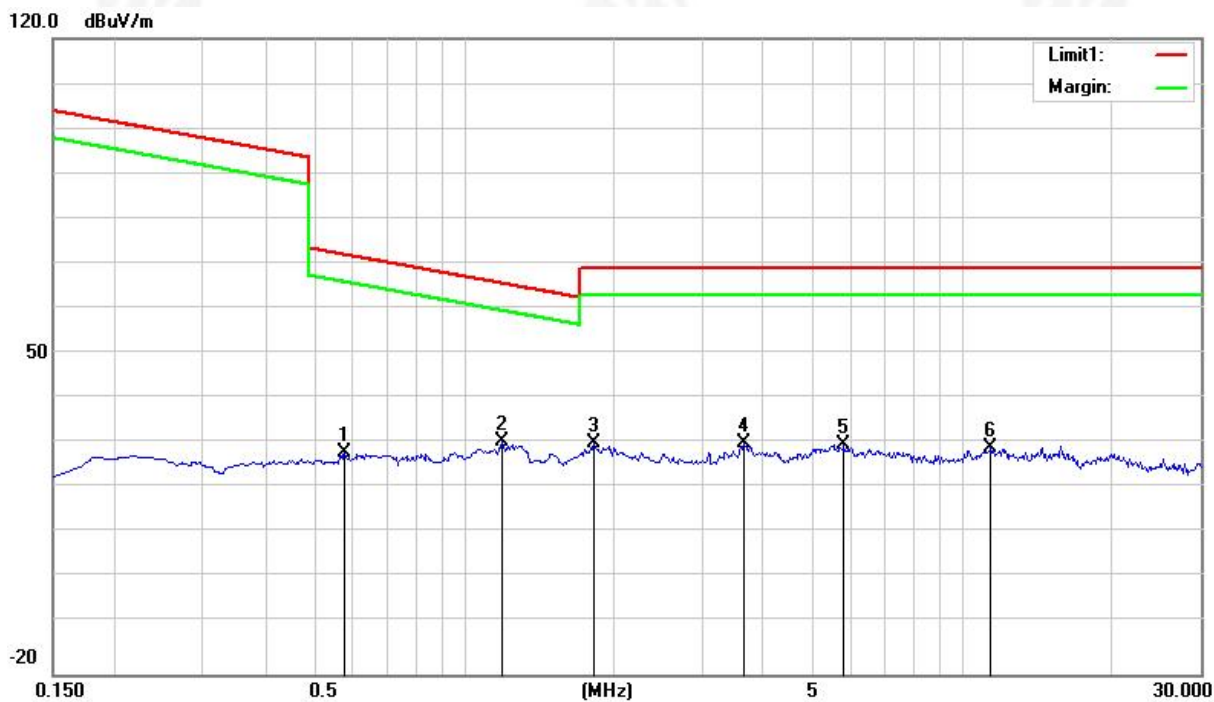
Coxial
9K-150K



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0120	10.50	19.52	30.02	126.02	-96.00	AVG
2	0.0240	7.71	20.02	27.73	120.00	-92.27	AVG
3	0.0310	7.85	19.88	27.73	117.78	-90.05	AVG
4	0.0510	7.28	19.47	26.75	113.45	-86.70	AVG
5	0.0740	8.02	18.83	26.85	110.22	-83.37	AVG
6	0.1302	9.86	17.54	27.40	105.31	-77.91	AVG



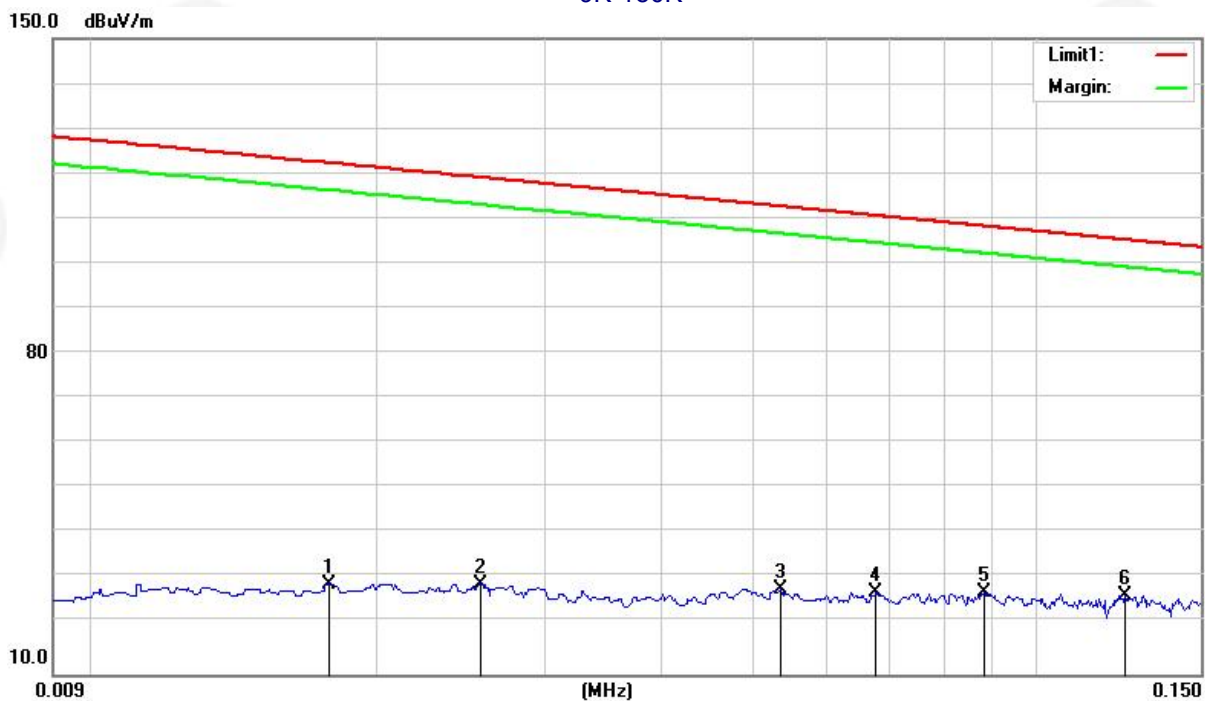
150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5762	8.49	20.23	28.72	72.39	-43.67	QP
2	1.1947	10.93	20.24	31.17	66.06	-34.89	QP
3	1.8216	10.50	20.36	30.86	69.50	-38.64	QP
4	3.6425	10.49	20.29	30.78	69.50	-38.72	QP
5	5.7915	10.26	20.45	30.71	69.50	-38.79	QP
6	11.4032	9.48	20.51	29.99	69.50	-39.51	QP



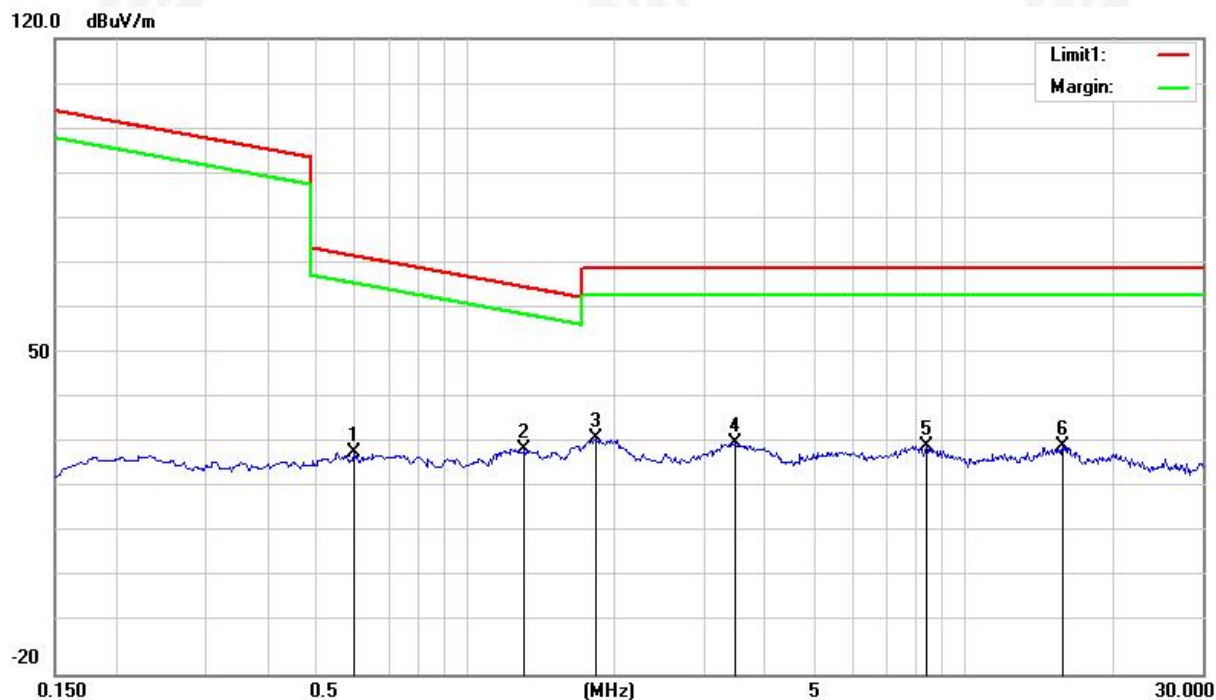
Coplanar
9K-150K



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0177	9.99	19.93	29.92	122.65	-92.73	AVG
2	0.0257	9.88	19.99	29.87	119.41	-89.54	AVG
3	0.0536	9.28	19.40	28.68	113.02	-84.34	AVG
4	0.0675	8.99	19.01	28.00	111.02	-83.02	AVG
5	0.0882	9.69	18.17	27.86	108.69	-80.83	AVG
6	0.1246	9.86	17.55	27.41	105.69	-78.28	AVG



150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5977	8.67	20.24	28.91	72.07	-43.16	QP
2	1.3141	9.20	20.26	29.46	65.23	-35.77	QP
3	1.8216	11.50	20.36	31.86	69.50	-37.64	QP
4	3.4721	10.64	20.24	30.88	69.50	-38.62	QP
5	8.3886	9.89	20.30	30.19	69.50	-39.31	QP
6	15.7911	8.66	21.49	30.15	69.50	-39.35	QP

Note:

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

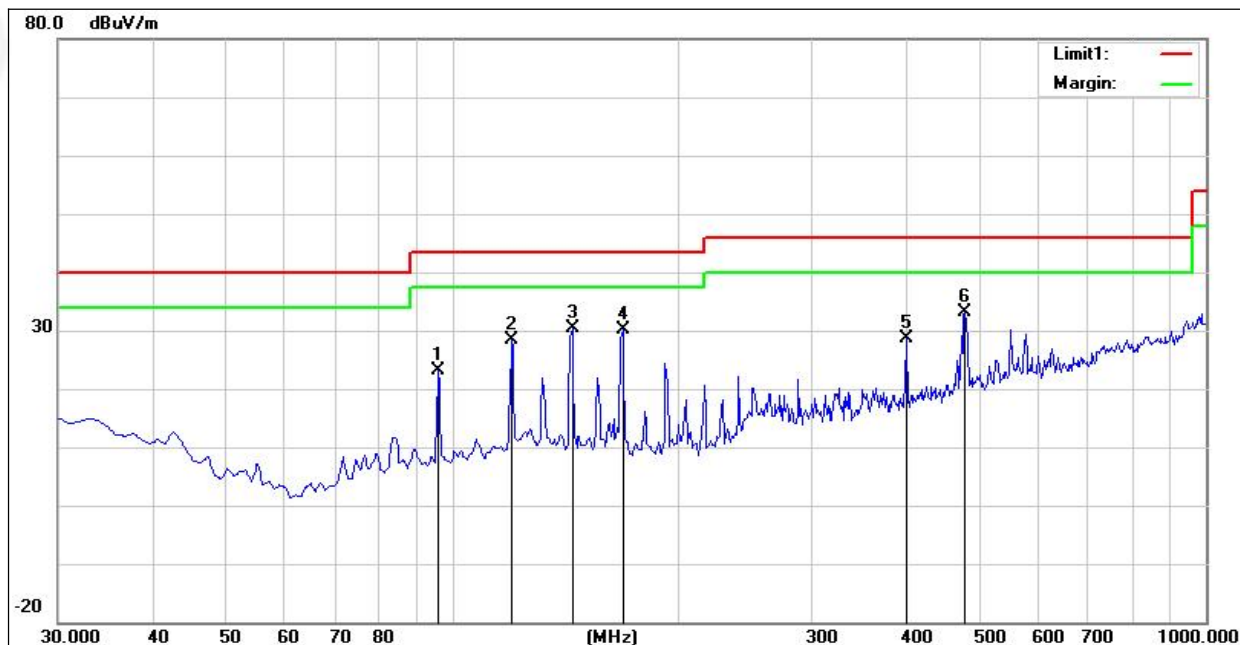
Limit line = specific limits (dBuV) + distance extrapolation factor.

The test data shows only the worst case TX 802.11b - 2412MHz.



Between 30MHz – 1GHz

Temperature:	23.4℃	Relative Humidity:	60%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test Mode :	TX 802.11b - 2412MHz



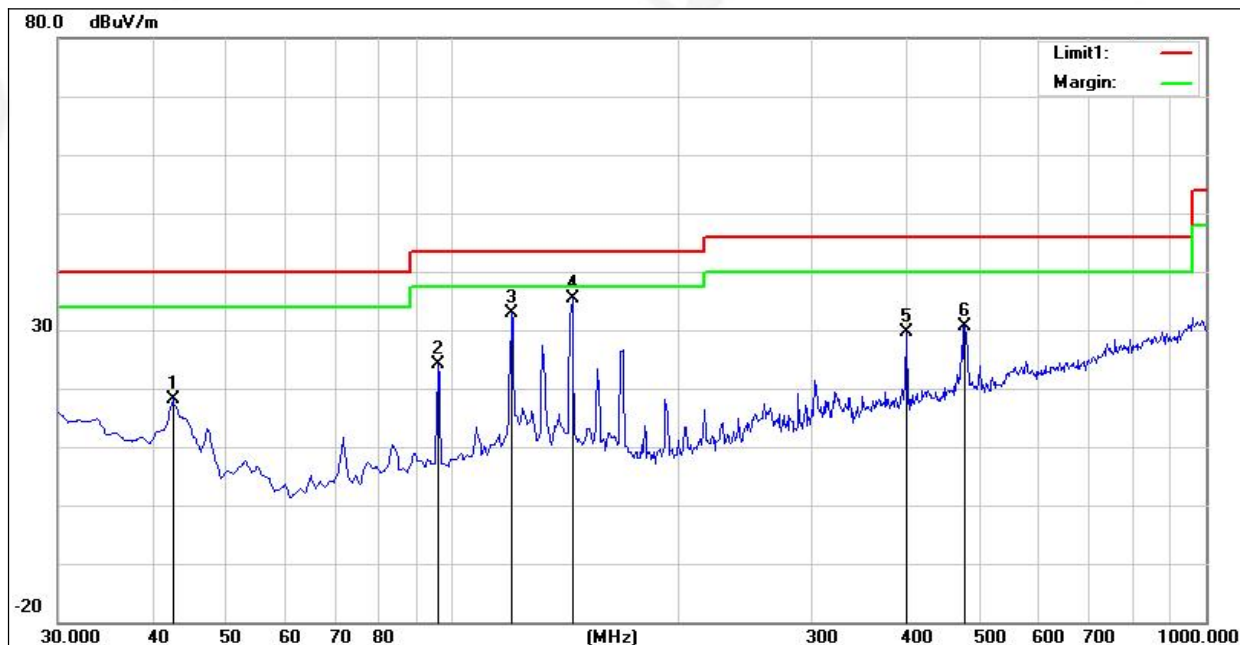
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.9600	43.69	-20.67	23.02	43.50	-20.48	QP
2	120.2100	46.81	-18.35	28.46	43.50	-15.04	QP
3	144.4600	48.58	-18.29	30.29	43.50	-13.21	QP
4	168.7100	49.71	-19.67	30.04	43.50	-13.46	QP
5	401.5100	39.78	-11.06	28.72	46.00	-17.28	QP
6	480.0800	41.88	-8.65	33.23	46.00	-12.77	QP

Remarks:

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. The test data shows only the worst case TX 802.11b - 2412MHz.



Temperature:	23.4℃	Relative Humidity:	60%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode :	TX 802.11b - 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	42.6100	37.56	-19.44	18.12	40.00	-21.88	QP
2	95.9600	44.89	-20.67	24.22	43.50	-19.28	QP
3	120.2100	51.29	-18.35	32.94	43.50	-10.56	QP
4	144.4600	53.64	-18.29	35.35	43.50	-8.15	QP
5	401.5100	40.64	-11.06	29.58	46.00	-16.42	QP
6	480.0800	39.24	-8.65	30.59	46.00	-15.41	QP

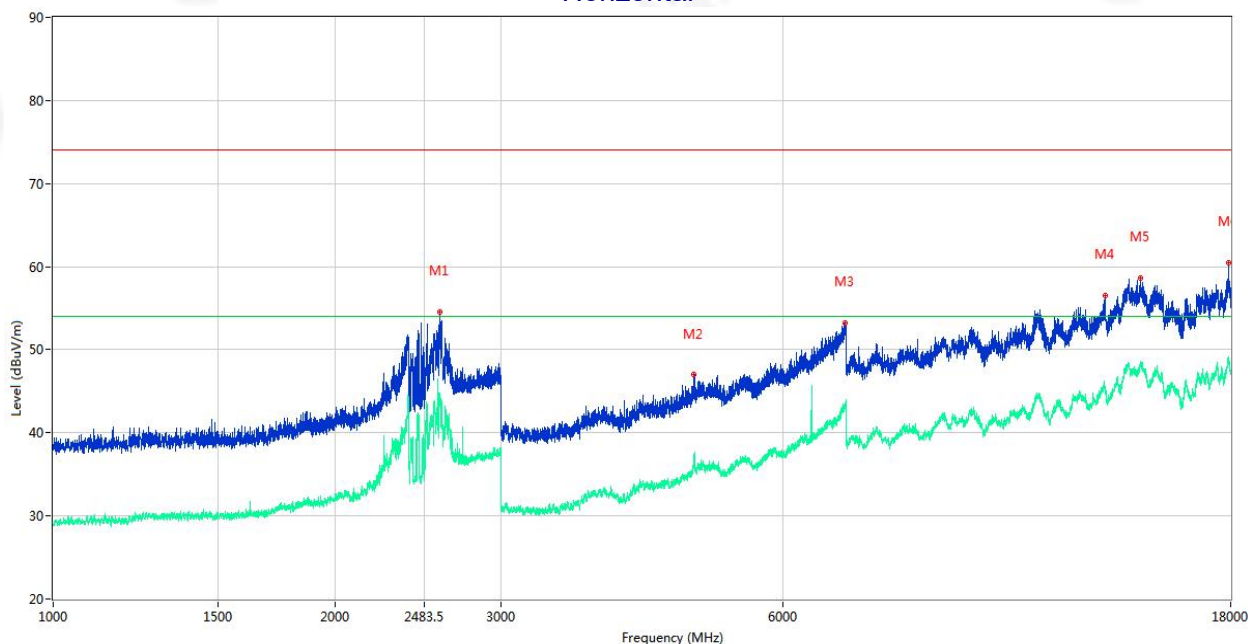
Remarks:

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. The test data shows only the worst case TX 802.11b - 2412MHz.



1GHz~25GHz

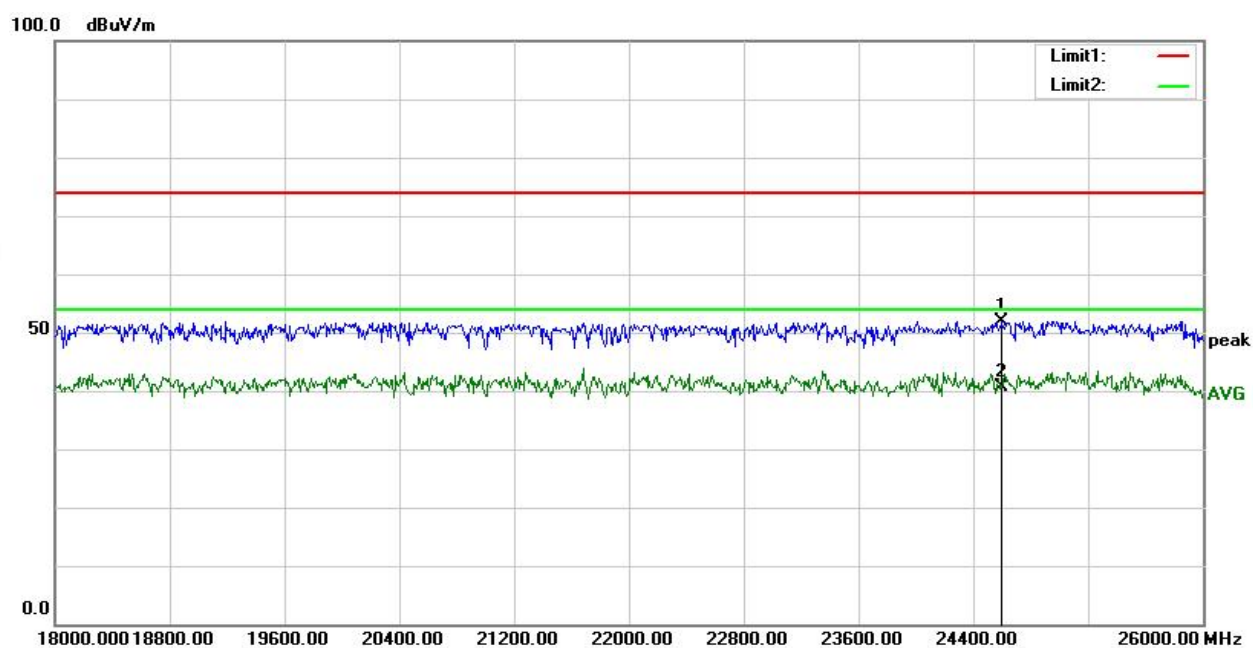
Worst mode (802.11ax20)
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2585.000	54.48	3.47	74.0	-19.52	Peak	95.90	Horizontal	Pass
1**	2585.000	44.72	3.47	54.0	-9.28	AV	95.90	Horizontal	Pass
2	4824.000	47.00	-6.89	74.0	-27.00	Peak	272.50	Horizontal	Pass
2**	4824.000	37.30	-6.89	54.0	-16.70	AV	272.50	Horizontal	Pass
3	6984.000	53.20	1.19	74.0	-20.80	Peak	229.00	Horizontal	Pass
3**	6984.000	43.17	1.19	54.0	-10.83	AV	229.00	Horizontal	Pass
4	13226.000	56.56	4.92	74.0	-17.44	Peak	76.60	Horizontal	Pass
4**	13226.000	45.51	4.92	54.0	-8.49	AV	76.60	Horizontal	Pass
5	14411.250	58.67	6.91	74.0	-15.33	Peak	275.60	Horizontal	Pass
5**	14411.250	48.60	6.91	54.0	-5.40	AV	275.60	Horizontal	Pass
6	17912.001	60.42	7.15	74.0	-13.58	Peak	335.50	Horizontal	Pass
6**	17912.001	48.99	7.15	54.0	-5.01	AV	335.50	Horizontal	Pass



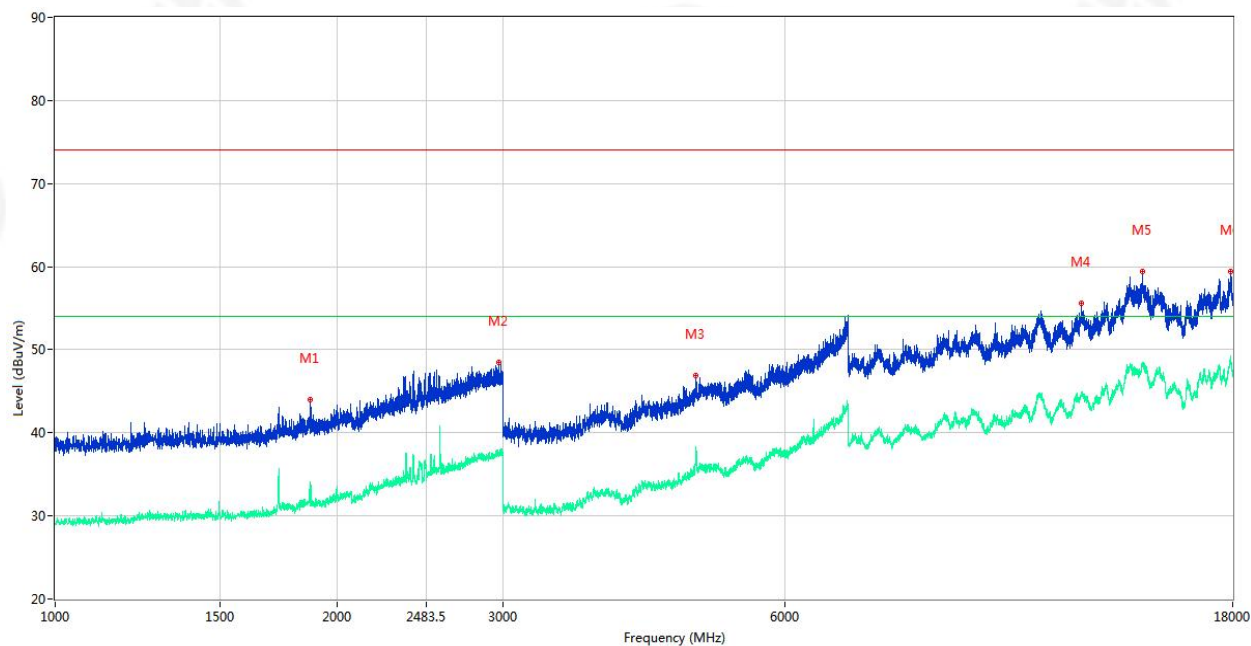
18GHz-26GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	24600.000	47.13	4.83	51.96	74.00	-22.04	peak
2	24600.000	35.80	4.83	40.63	54.00	-13.37	AVG



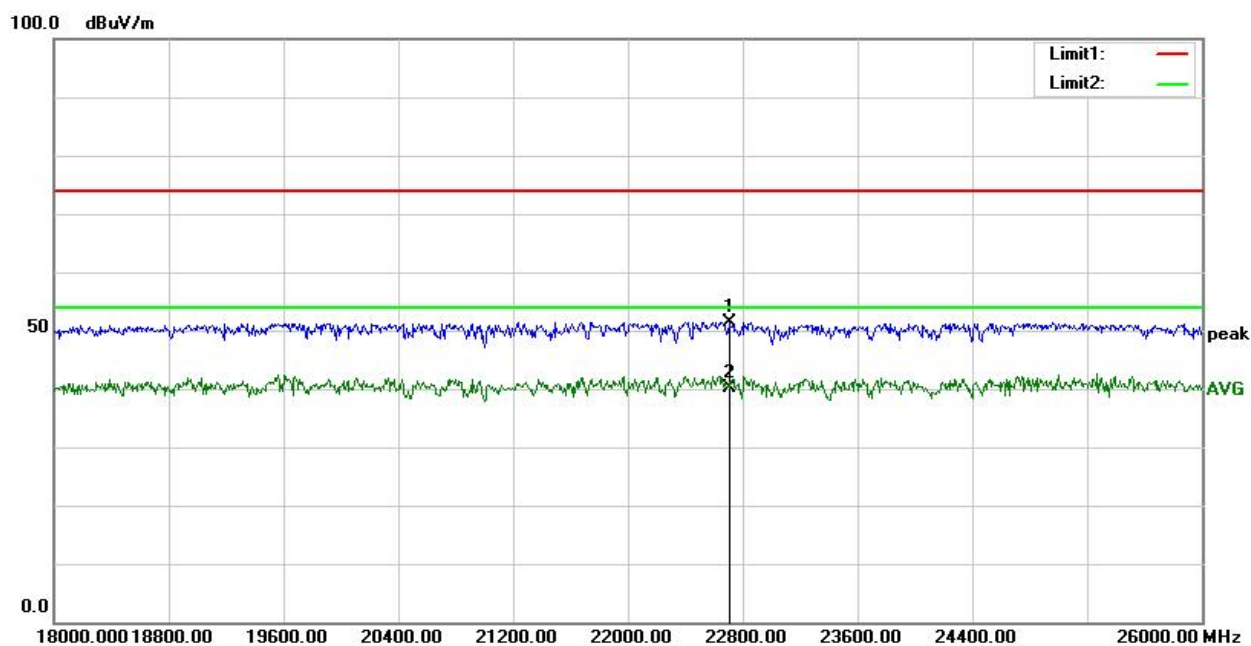
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1869.000	43.96	-0.10	74.0	-30.04	Peak	203.70	Vertical	Pass
1**	1869.000	34.06	-0.10	54.0	-19.94	AV	203.70	Vertical	Pass
2	2973.000	48.41	5.33	74.0	-25.59	Peak	27.80	Vertical	Pass
2**	2973.000	37.48	5.33	54.0	-16.52	AV	27.80	Vertical	Pass
3	4824.000	46.85	-6.89	74.0	-27.15	Peak	236.90	Vertical	Pass
3**	4824.000	38.39	-6.89	54.0	-15.61	AV	236.90	Vertical	Pass
4	12414.750	55.64	3.03	74.0	-18.36	Peak	211.90	Vertical	Pass
4**	12414.750	44.58	3.03	54.0	-9.42	AV	211.90	Vertical	Pass
5	14416.750	59.47	6.87	74.0	-14.53	Peak	198.80	Vertical	Pass
5**	14416.750	48.41	6.87	54.0	-5.59	AV	198.80	Vertical	Pass
6	17901.001	59.46	7.23	74.0	-14.54	Peak	84.60	Vertical	Pass
6**	17901.001	48.84	7.23	54.0	-5.16	AV	84.60	Vertical	Pass



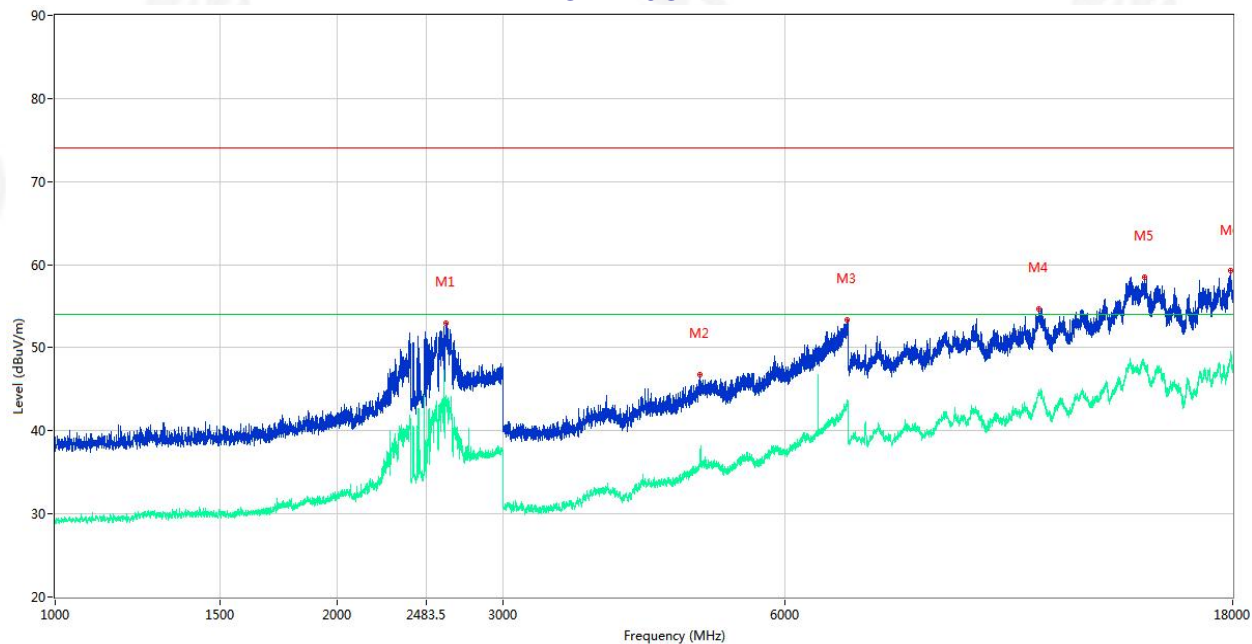
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22704.000	47.68	3.80	51.48	74.00	-22.52	peak
2	22704.000	36.33	3.80	40.13	54.00	-13.87	AVG



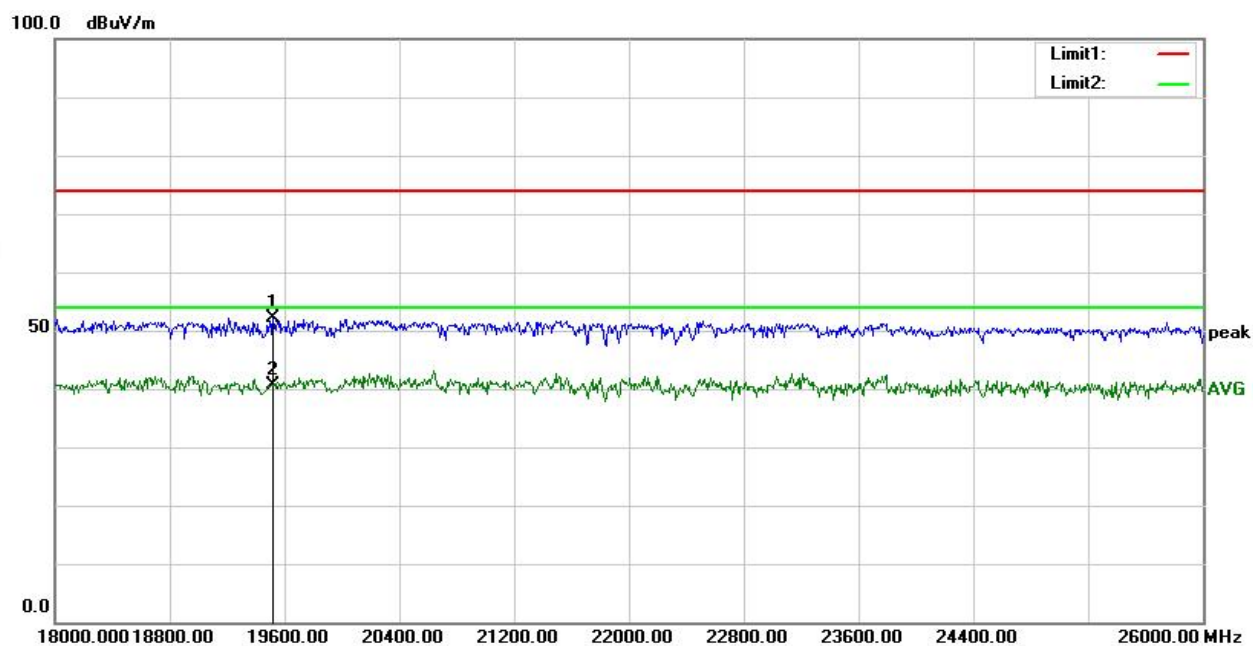
Mid Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2610.000	53.01	3.55	74.0	-20.99	Peak	95.00	Horizontal	Pass
1**	2610.000	43.85	3.55	54.0	-10.15	AV	95.00	Horizontal	Pass
2	4871.000	46.77	-6.38	74.0	-27.23	Peak	59.00	Horizontal	Pass
2**	4871.000	37.54	-6.38	54.0	-16.46	AV	59.00	Horizontal	Pass
3	6989.000	53.31	1.23	74.0	-20.69	Peak	147.50	Horizontal	Pass
3**	6989.000	43.37	1.23	54.0	-10.63	AV	147.50	Horizontal	Pass
4	11196.500	54.69	2.60	74.0	-19.31	Peak	101.00	Horizontal	Pass
4**	11196.500	44.20	2.60	54.0	-9.80	AV	101.00	Horizontal	Pass
5	14493.750	58.49	6.32	74.0	-15.51	Peak	198.00	Horizontal	Pass
5**	14493.750	48.00	6.32	54.0	-6.00	AV	198.00	Horizontal	Pass
6	17887.250	59.23	7.13	74.0	-14.77	Peak	9.90	Horizontal	Pass
6**	17887.250	48.90	7.13	54.0	-5.10	AV	9.90	Horizontal	Pass



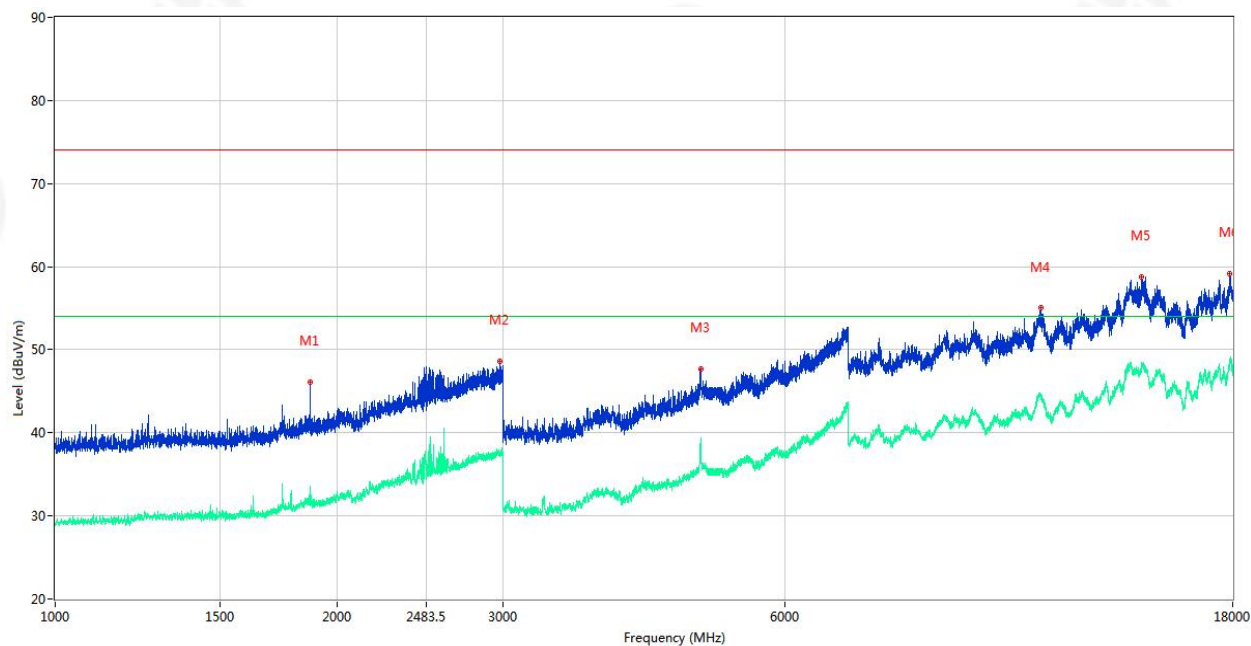
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19520.000	50.68	1.49	52.17	74.00	-21.83	peak
2	19520.000	39.07	1.49	40.56	54.00	-13.44	AVG



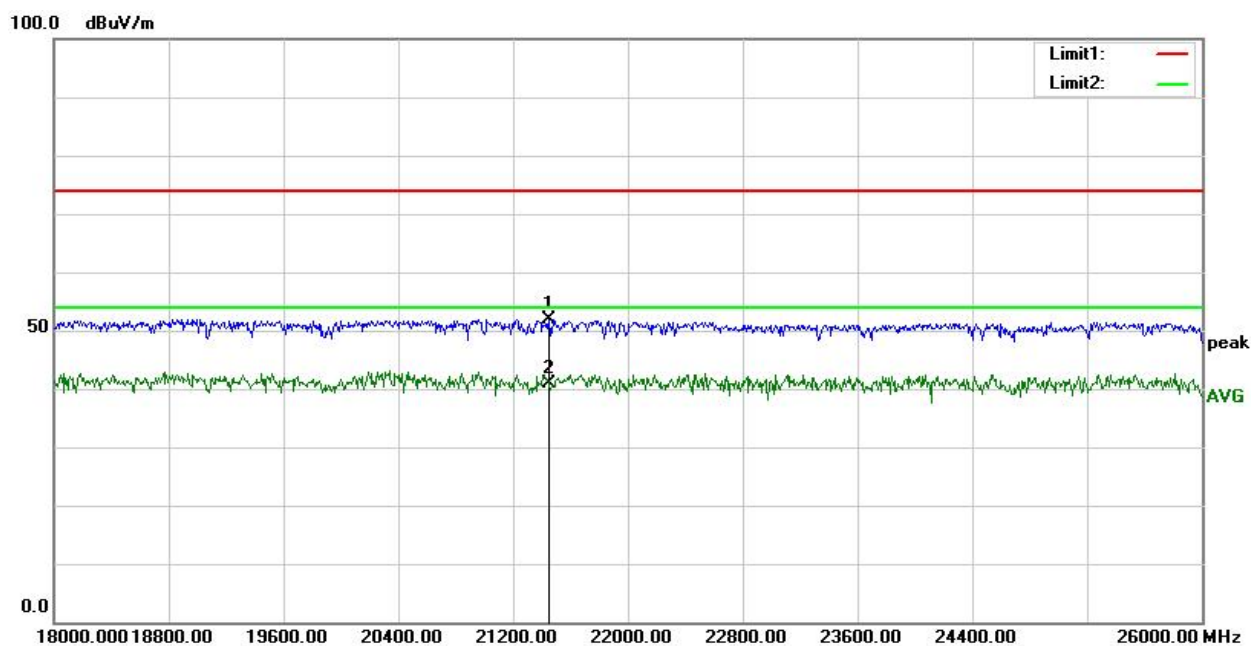
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1871.500	46.06	-0.10	74.0	-27.94	Peak	181.00	Vertical	Pass
1**	1871.500	33.00	-0.10	54.0	-21.00	AV	181.00	Vertical	Pass
2	2976.500	48.61	5.34	74.0	-25.39	Peak	66.50	Vertical	Pass
2**	2976.500	37.55	5.34	54.0	-16.45	AV	66.50	Vertical	Pass
3	4875.000	47.73	-6.34	74.0	-26.27	Peak	335.20	Vertical	Pass
3**	4875.000	38.48	-6.34	54.0	-15.52	AV	335.20	Vertical	Pass
4	11248.750	55.01	2.45	74.0	-18.99	Peak	25.10	Vertical	Pass
4**	11248.750	44.34	2.45	54.0	-9.66	AV	25.10	Vertical	Pass
5	14383.750	58.76	6.97	74.0	-15.24	Peak	269.20	Vertical	Pass
5**	14383.750	48.11	6.97	54.0	-5.89	AV	269.20	Vertical	Pass
6	17873.500	59.12	7.01	74.0	-14.88	Peak	84.70	Vertical	Pass
6**	17873.500	48.49	7.01	54.0	-5.51	AV	84.70	Vertical	Pass



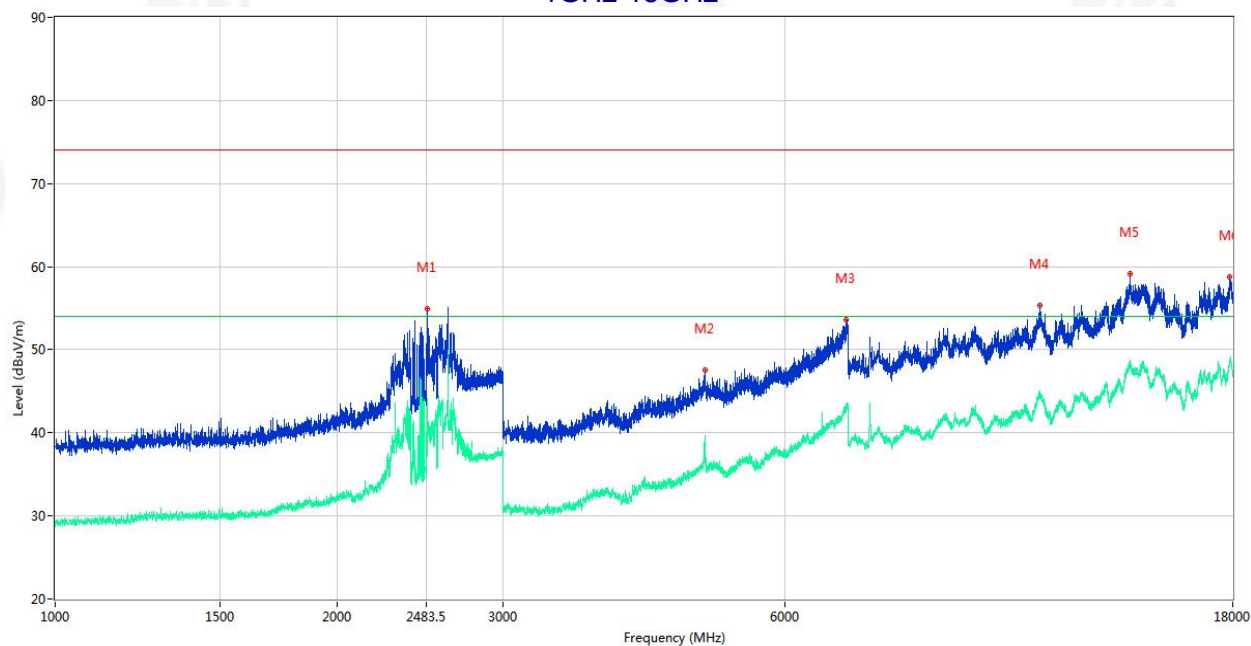
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21448.000	49.06	2.91	51.97	74.00	-22.03	peak
2	21448.000	38.07	2.91	40.98	54.00	-13.02	AVG



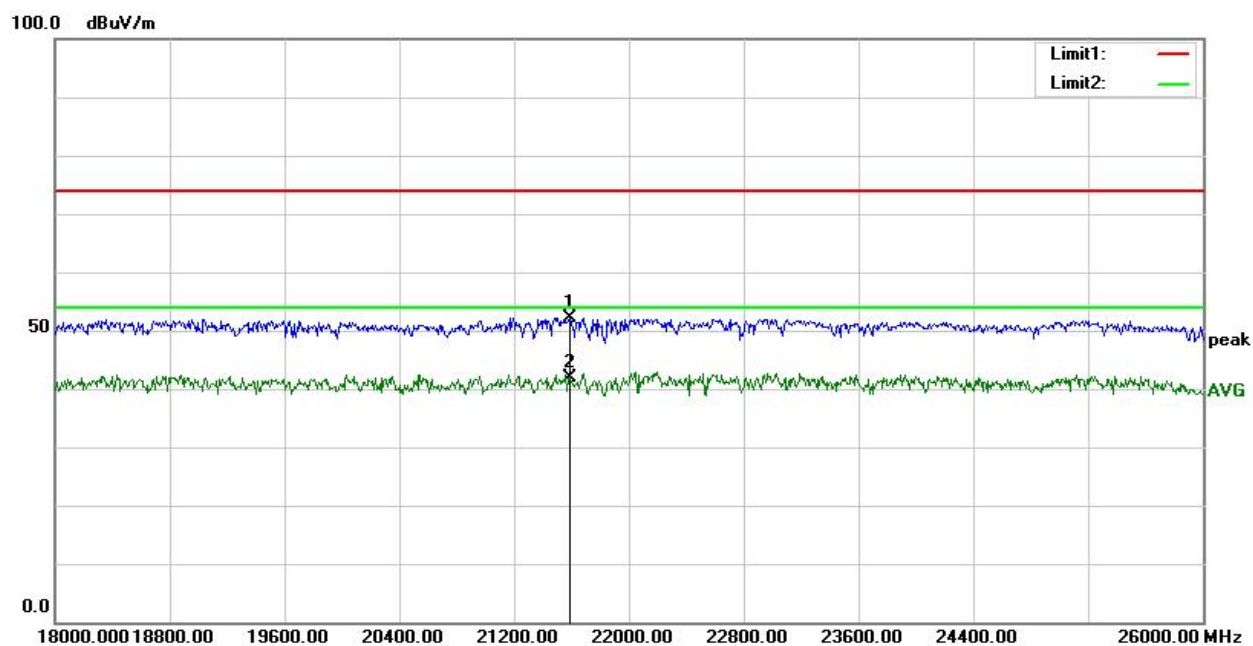
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2492.000	54.93	3.16	74.0	-19.07	Peak	106.20	Horizontal	Pass
1**	2492.000	43.65	3.16	54.0	-10.35	AV	106.20	Horizontal	Pass
2	4925.000	47.61	-6.04	74.0	-26.39	Peak	288.10	Horizontal	Pass
2**	4925.000	37.99	-6.04	54.0	-16.01	AV	288.10	Horizontal	Pass
3	6970.000	53.64	1.08	74.0	-20.36	Peak	358.60	Horizontal	Pass
3**	6970.000	43.15	1.08	54.0	-10.85	AV	358.60	Horizontal	Pass
4	11202.000	55.29	2.61	74.0	-18.71	Peak	56.70	Horizontal	Pass
4**	11202.000	44.39	2.61	54.0	-9.61	AV	56.70	Horizontal	Pass
5	14004.250	59.11	8.38	74.0	-14.89	Peak	2.50	Horizontal	Pass
5**	14004.250	48.41	8.38	54.0	-5.59	AV	2.50	Horizontal	Pass
6	17846.000	58.79	6.78	74.0	-15.21	Peak	167.20	Horizontal	Pass
6**	17846.000	48.28	6.78	54.0	-5.72	AV	167.20	Horizontal	Pass



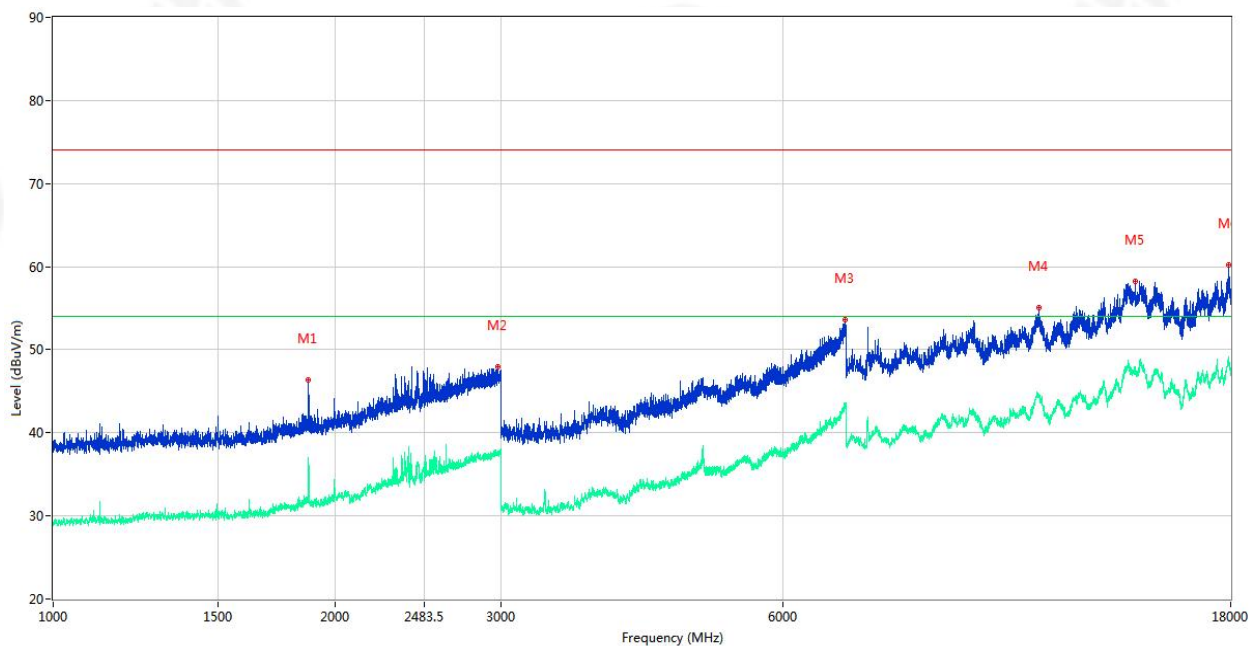
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21584.000	49.23	3.01	52.24	74.00	-21.76	peak
2	21584.000	38.93	3.01	41.94	54.00	-12.06	AVG



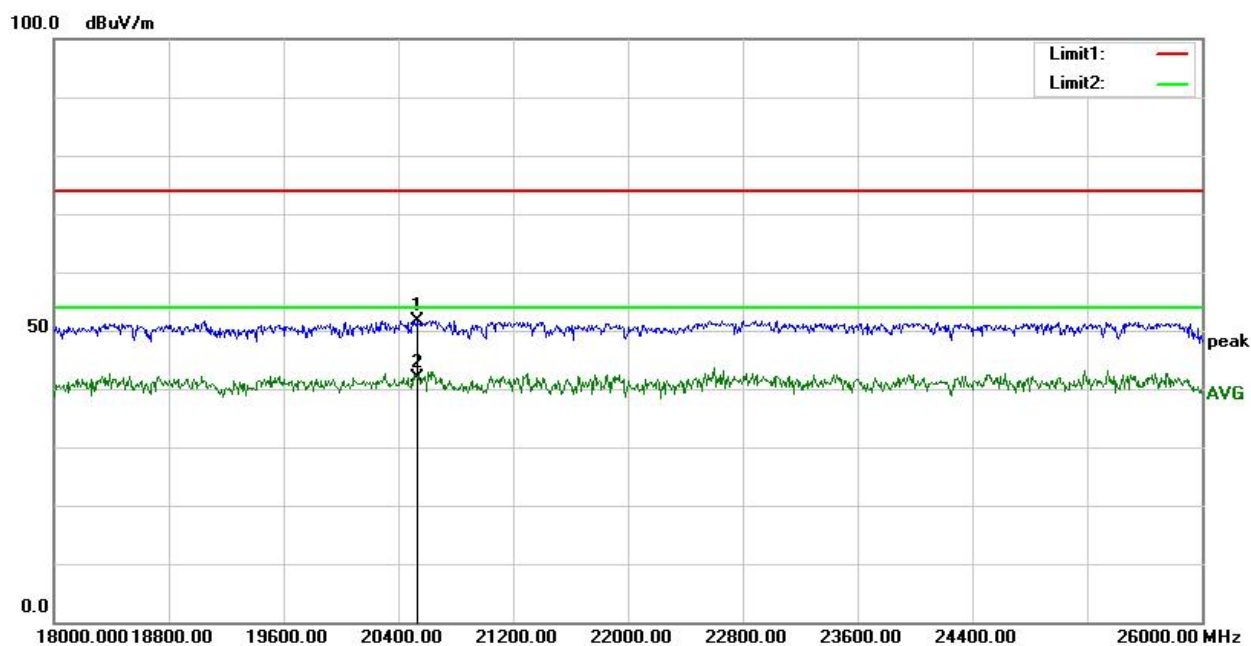
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1872.000	46.31	-0.10	74.0	-27.69	Peak	179.60	Vertical	Pass
1**	1872.000	36.99	-0.10	54.0	-17.01	AV	179.60	Vertical	Pass
2	2980.000	47.99	5.36	74.0	-26.01	Peak	151.30	Vertical	Pass
2**	2980.000	37.60	5.36	54.0	-16.40	AV	151.30	Vertical	Pass
3	6983.000	53.61	1.18	74.0	-20.39	Peak	85.00	Vertical	Pass
3**	6983.000	43.39	1.18	54.0	-10.61	AV	85.00	Vertical	Pass
4	11248.750	55.06	2.45	74.0	-18.94	Peak	208.20	Vertical	Pass
4**	11248.750	44.24	2.45	54.0	-9.76	AV	208.20	Vertical	Pass
5	14251.750	58.25	6.92	74.0	-15.75	Peak	312.30	Vertical	Pass
5**	14251.750	47.32	6.92	54.0	-6.68	AV	312.30	Vertical	Pass
6	17931.250	60.18	7.00	74.0	-13.82	Peak	78.80	Vertical	Pass
6**	17931.250	48.85	7.00	54.0	-5.15	AV	78.80	Vertical	Pass



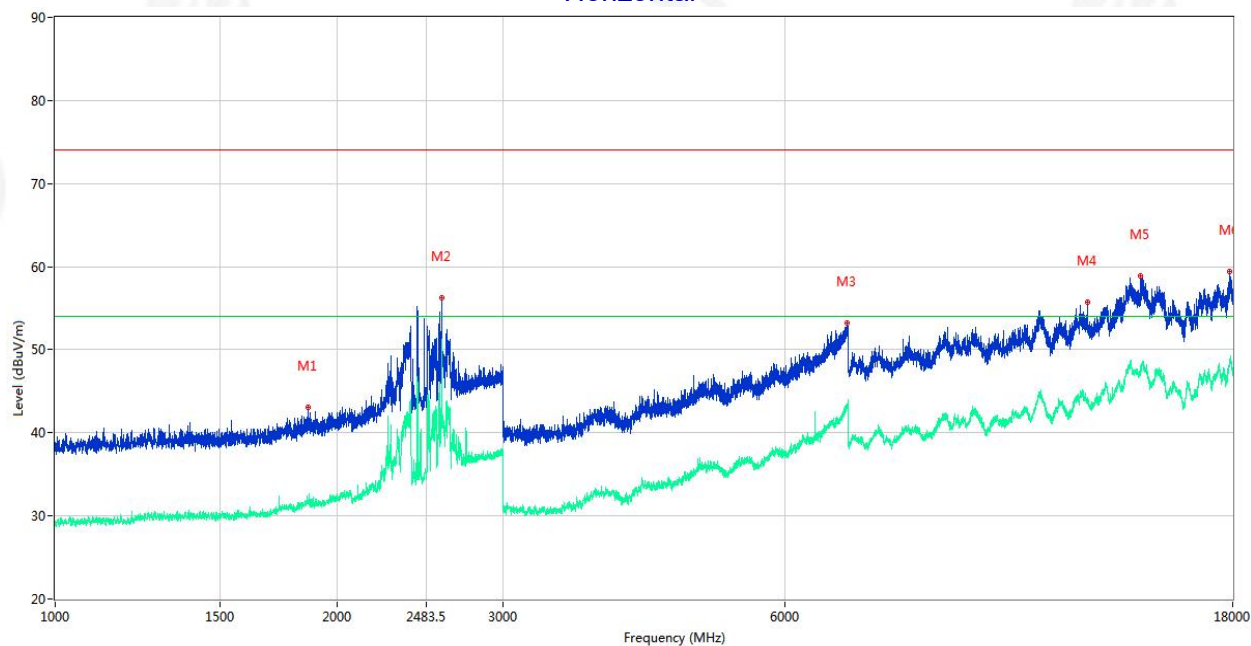
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20528.000	49.48	2.25	51.73	74.00	-22.27	peak
2	20528.000	39.55	2.25	41.80	54.00	-12.20	AVG



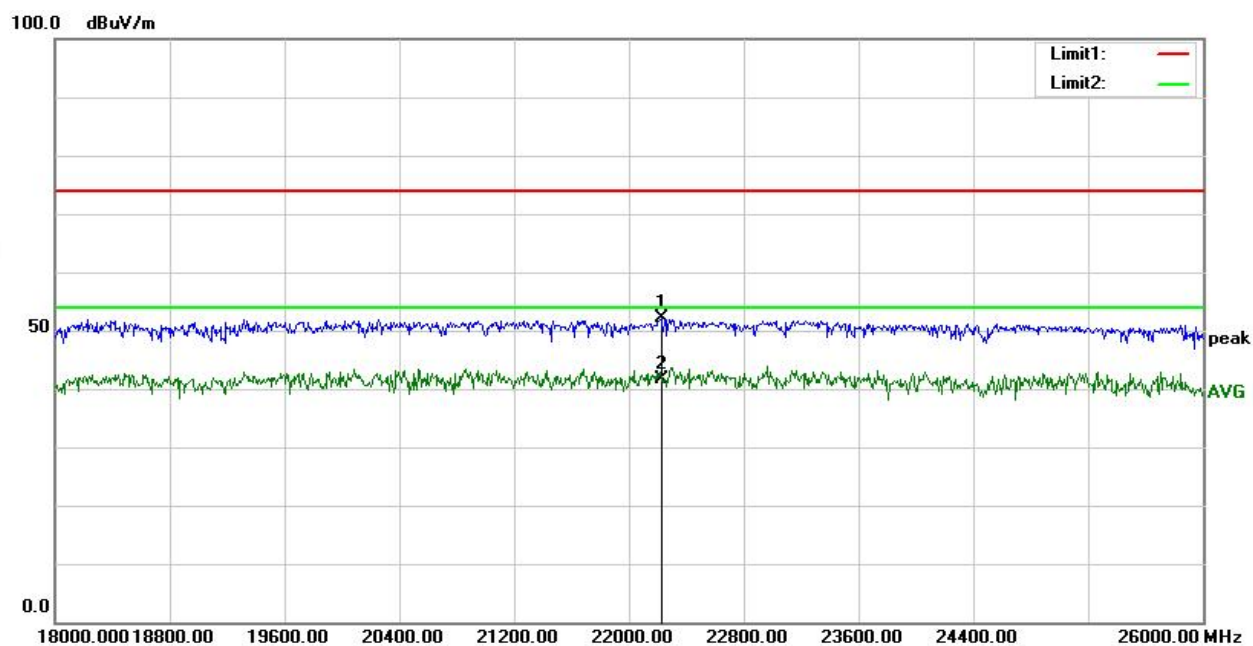
Worst mode (802.11ax40)
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1859.000	43.09	-0.08	74.0	-30.91	Peak	132.80	Horizontal	Pass
1**	1859.000	31.59	-0.08	54.0	-22.41	AV	132.80	Horizontal	Pass
2	2582.500	56.28	3.48	74.0	-17.72	Peak	95.20	Horizontal	Pass
2**	2582.500	51.23	3.48	54.0	-2.77	AV	95.20	Horizontal	Pass
3	6992.000	53.25	1.26	74.0	-20.75	Peak	173.20	Horizontal	Pass
3**	6992.000	43.32	1.26	54.0	-10.68	AV	173.20	Horizontal	Pass
4	12618.250	55.74	2.91	74.0	-18.26	Peak	39.80	Horizontal	Pass
4**	12618.250	43.62	2.91	54.0	-10.38	AV	39.80	Horizontal	Pass
5	14370.000	58.84	6.96	74.0	-15.16	Peak	298.60	Horizontal	Pass
5**	14370.000	48.02	6.96	54.0	-5.98	AV	298.60	Horizontal	Pass
6	17876.251	59.38	7.04	74.0	-14.62	Peak	154.70	Horizontal	Pass
6**	17876.251	48.69	7.04	54.0	-5.31	AV	154.70	Horizontal	Pass



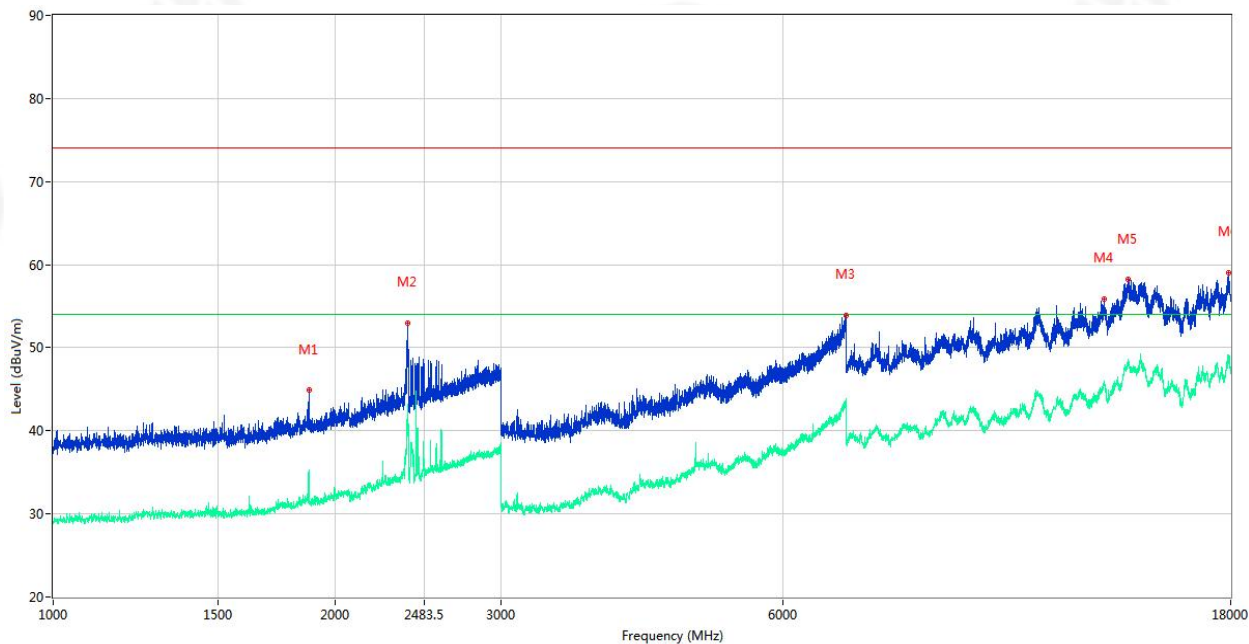
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22224.000	48.54	3.63	52.17	74.00	-21.83	peak
2	22224.000	37.89	3.63	41.52	54.00	-12.48	AVG



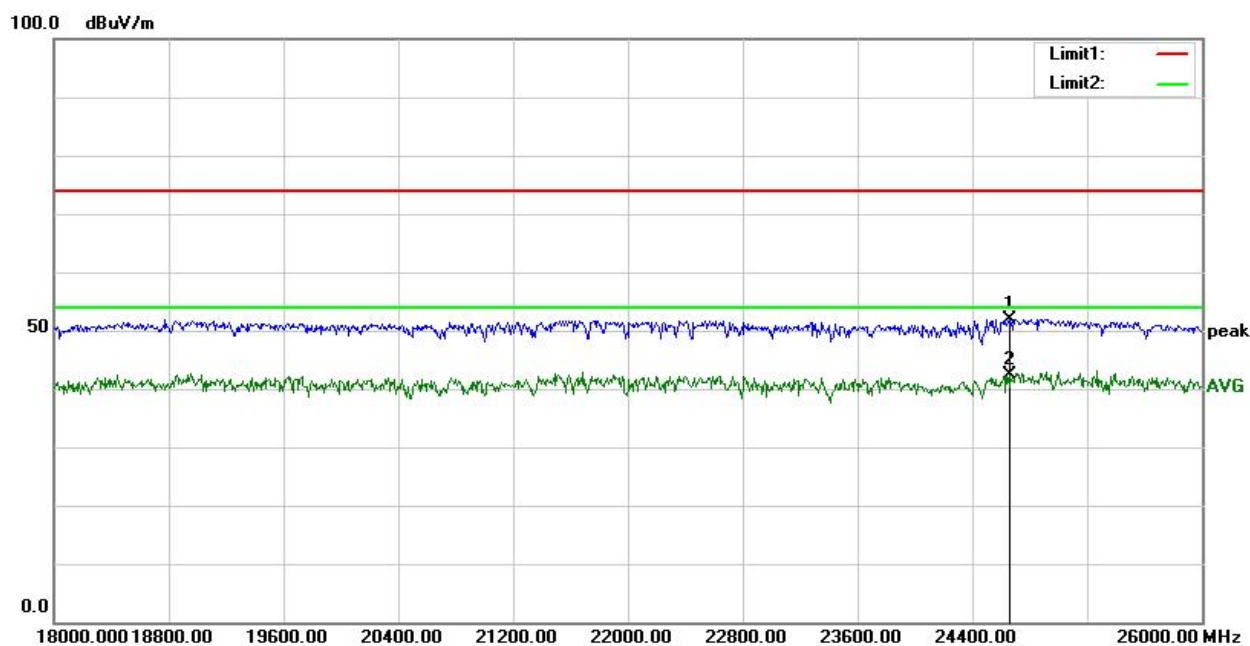
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1872.500	44.86	-0.10	74.0	-29.14	Peak	48.90	Vertical	Pass
1**	1872.500	35.26	-0.10	54.0	-18.74	AV	48.90	Vertical	Pass
2	2385.000	52.92	2.98	74.0	-21.08	Peak	213.00	Vertical	Pass
2**	2385.000	41.62	2.98	54.0	-12.38	AV	213.00	Vertical	Pass
3	6996.000	53.91	1.29	74.0	-20.09	Peak	244.90	Vertical	Pass
3**	6996.000	43.09	1.29	54.0	-10.91	AV	244.90	Vertical	Pass
4	13184.750	55.83	5.29	74.0	-18.17	Peak	62.00	Vertical	Pass
4**	13184.750	45.61	5.29	54.0	-8.39	AV	62.00	Vertical	Pass
5	13976.750	58.17	8.16	74.0	-15.83	Peak	156.10	Vertical	Pass
5**	13976.750	48.21	8.16	54.0	-5.79	AV	156.10	Vertical	Pass
6	17912.001	59.06	7.15	74.0	-14.94	Peak	185.90	Vertical	Pass
6**	17912.001	48.97	7.15	54.0	-5.03	AV	185.90	Vertical	Pass



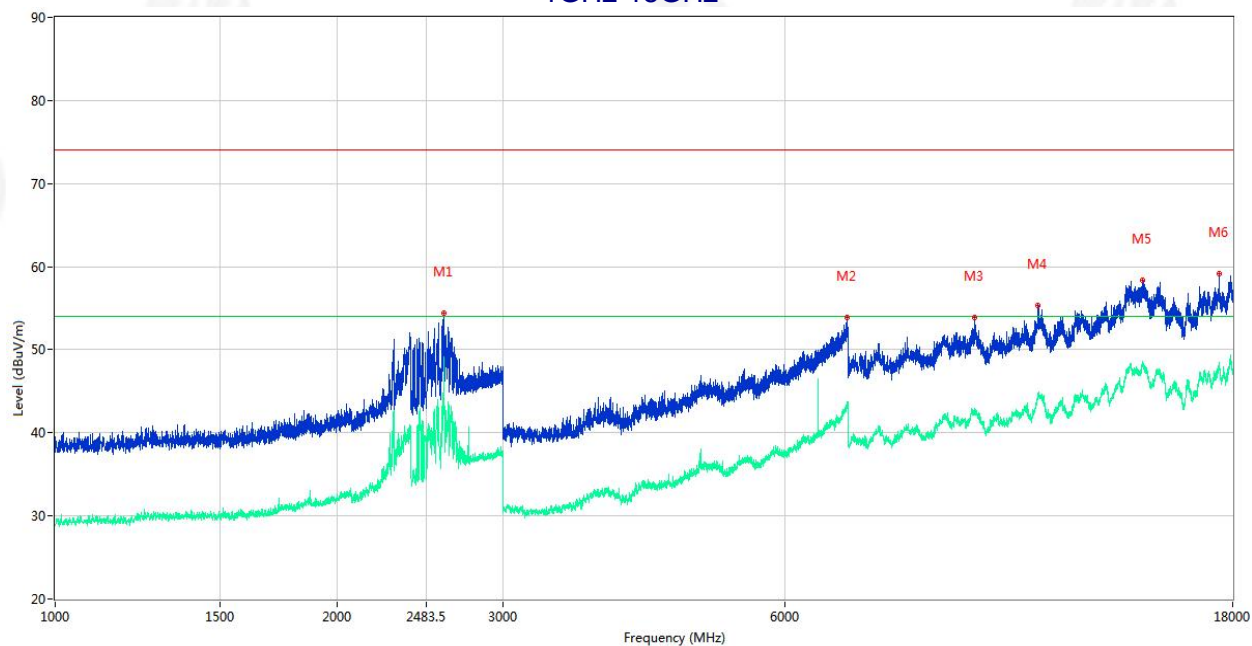
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24656.000	47.09	4.90	51.99	74.00	-22.01	peak
2	24656.000	37.43	4.90	42.33	54.00	-11.67	AVG



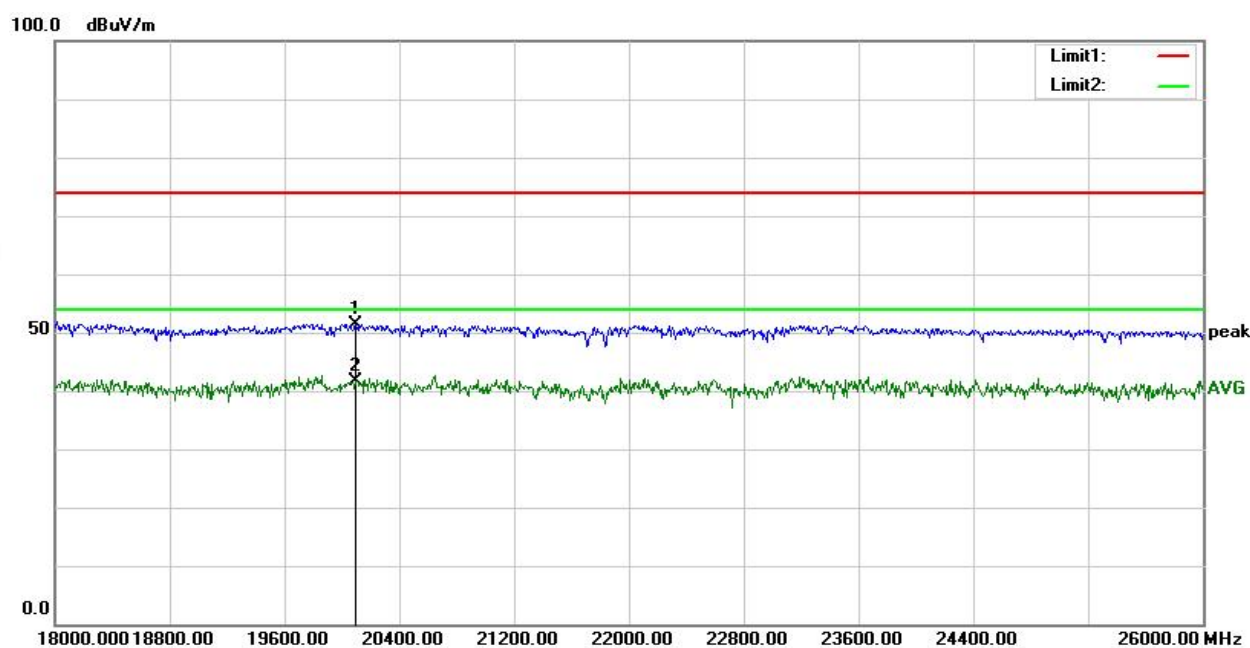
Mid Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2597.500	54.36	3.45	74.0	-19.64	Peak	110.80	Horizontal	Pass
1**	2597.500	48.37	3.45	54.0	-5.63	AV	110.80	Horizontal	Pass
2	6988.000	53.93	1.22	74.0	-20.07	Peak	30.70	Horizontal	Pass
2**	6988.000	43.53	1.22	54.0	-10.47	AV	30.70	Horizontal	Pass
3	9549.250	53.83	1.07	74.0	-20.17	Peak	360.00	Horizontal	Pass
3**	9549.250	42.78	1.07	54.0	-11.22	AV	360.00	Horizontal	Pass
4	11155.250	55.37	2.38	74.0	-18.63	Peak	0.00	Horizontal	Pass
4**	11155.250	44.28	2.38	54.0	-9.72	AV	0.00	Horizontal	Pass
5	14422.250	58.37	6.83	74.0	-15.63	Peak	129.20	Horizontal	Pass
5**	14422.250	48.43	6.83	54.0	-5.57	AV	129.20	Horizontal	Pass
6	17414.250	59.14	6.73	74.0	-14.86	Peak	1.20	Horizontal	Pass
6**	17414.250	47.99	6.73	54.0	-6.01	AV	1.20	Horizontal	Pass



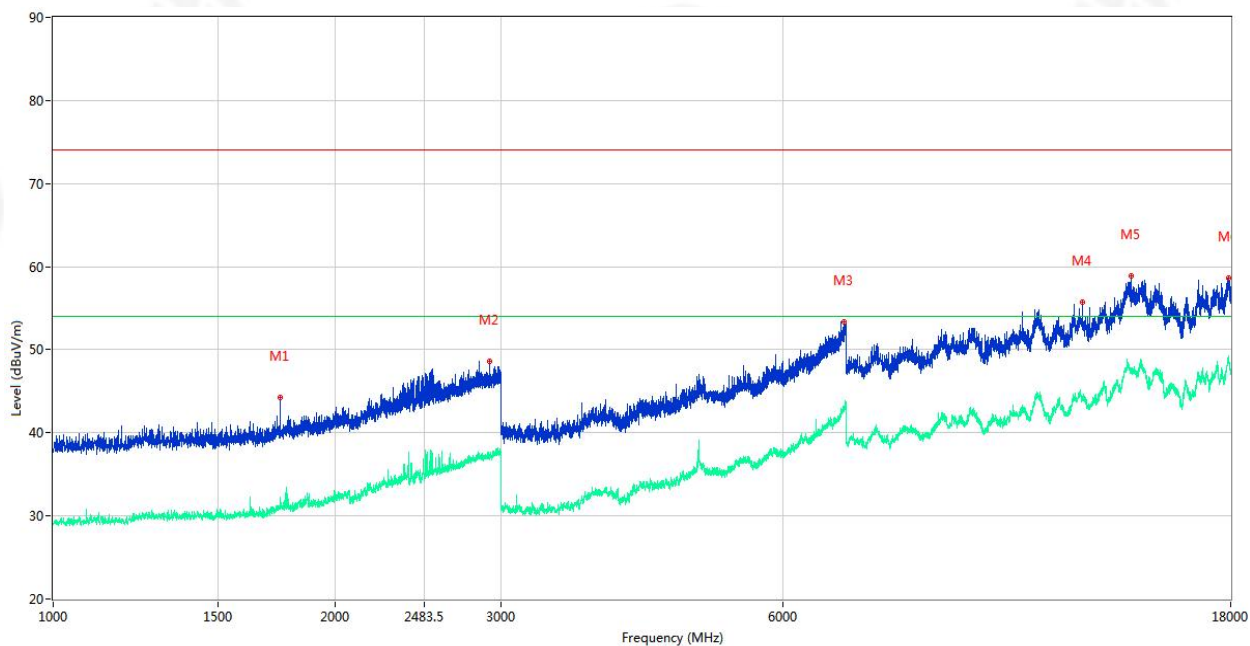
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20096.000	49.60	1.89	51.49	74.00	-22.51	peak
2	20096.000	39.81	1.89	41.70	54.00	-12.30	AVG



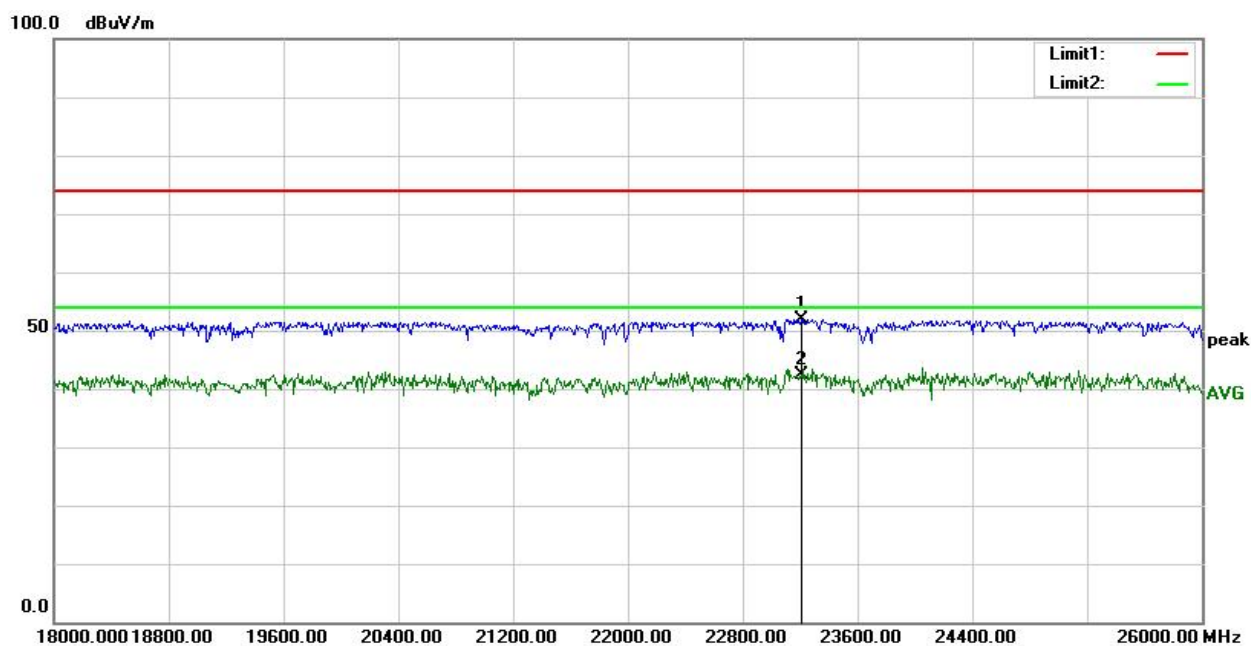
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1745.000	44.26	-0.57	74.0	-29.74	Peak	132.70	Vertical	Pass
1**	1745.000	32.27	-0.57	54.0	-21.73	AV	132.70	Vertical	Pass
2	2917.500	48.67	5.01	74.0	-25.33	Peak	70.20	Vertical	Pass
2**	2917.500	37.35	5.01	54.0	-16.65	AV	70.20	Vertical	Pass
3	6970.000	53.38	1.08	74.0	-20.62	Peak	202.90	Vertical	Pass
3**	6970.000	42.91	1.08	54.0	-11.09	AV	202.90	Vertical	Pass
4	12505.500	55.79	2.22	74.0	-18.21	Peak	128.90	Vertical	Pass
4**	12505.500	44.39	2.22	54.0	-9.61	AV	128.90	Vertical	Pass
5	14108.750	58.86	6.86	74.0	-15.14	Peak	103.60	Vertical	Pass
5**	14108.750	47.36	6.86	54.0	-6.64	AV	103.60	Vertical	Pass
6	17914.751	58.60	7.13	74.0	-15.40	Peak	279.20	Vertical	Pass
6**	17914.751	49.00	7.13	54.0	-5.00	AV	279.20	Vertical	Pass



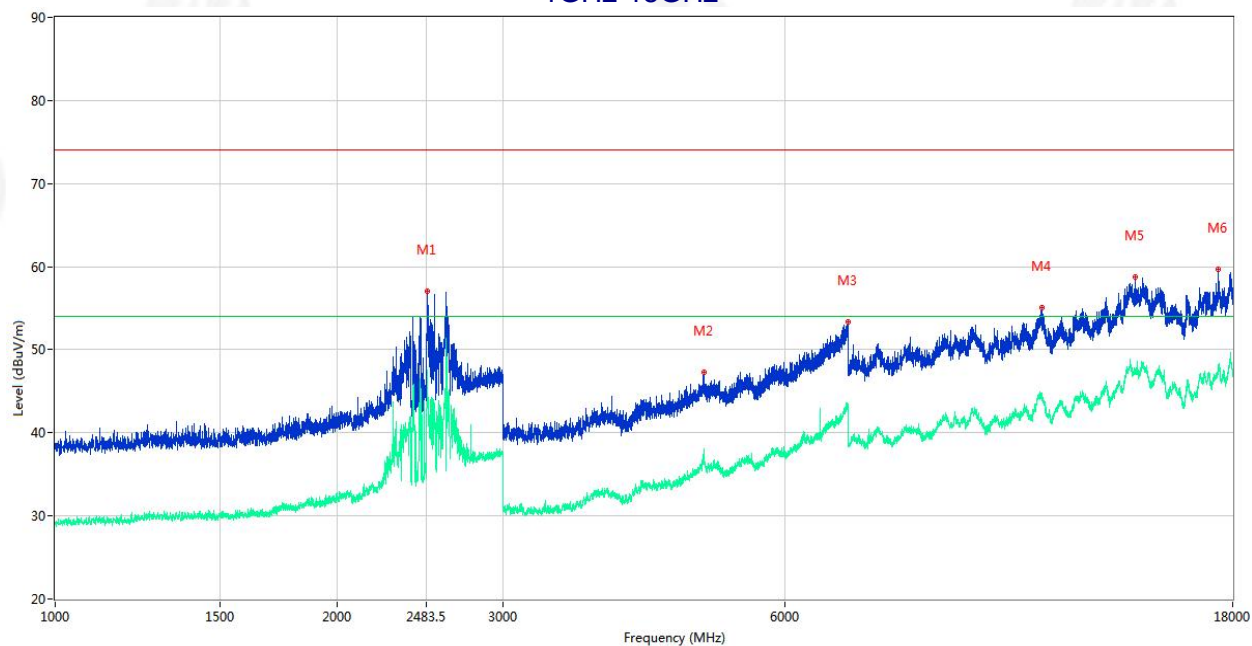
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23208.000	48.13	3.85	51.98	74.00	-22.02	peak
2	23208.000	38.58	3.85	42.43	54.00	-11.57	AVG



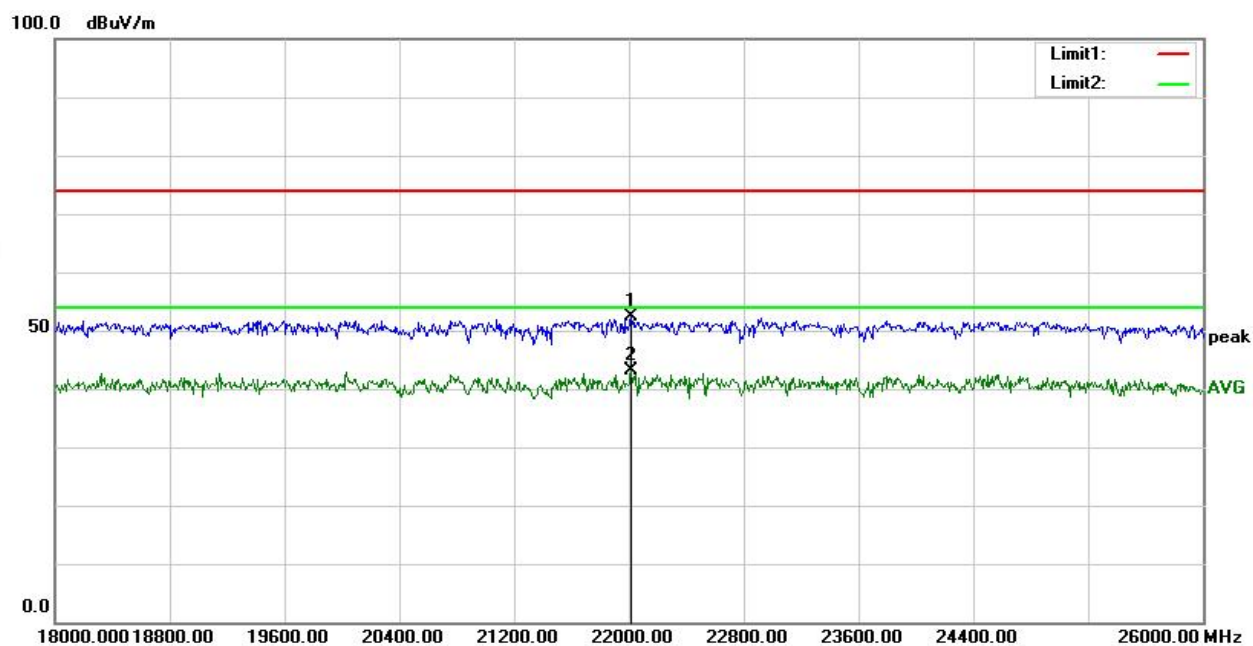
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2496.000	56.99	3.15	74.0	-17.01	Peak	112.60	Horizontal	Pass
1**	2496.000	46.40	3.15	54.0	-7.60	AV	112.60	Horizontal	Pass
2	4914.000	47.30	-6.05	74.0	-26.70	Peak	195.10	Horizontal	Pass
2**	4914.000	38.04	-6.05	54.0	-15.96	AV	195.10	Horizontal	Pass
3	6995.000	53.30	1.28	74.0	-20.70	Peak	168.00	Horizontal	Pass
3**	6995.000	43.18	1.28	54.0	-10.82	AV	168.00	Horizontal	Pass
4	11257.000	55.04	2.43	74.0	-18.96	Peak	7.50	Horizontal	Pass
4**	11257.000	44.36	2.43	54.0	-9.64	AV	7.50	Horizontal	Pass
5	14174.750	58.73	6.93	74.0	-15.27	Peak	289.30	Horizontal	Pass
5**	14174.750	47.58	6.93	54.0	-6.42	AV	289.30	Horizontal	Pass
6	17370.249	59.63	6.73	74.0	-14.37	Peak	250.70	Horizontal	Pass
6**	17370.249	47.47	6.73	54.0	-6.53	AV	250.70	Horizontal	Pass



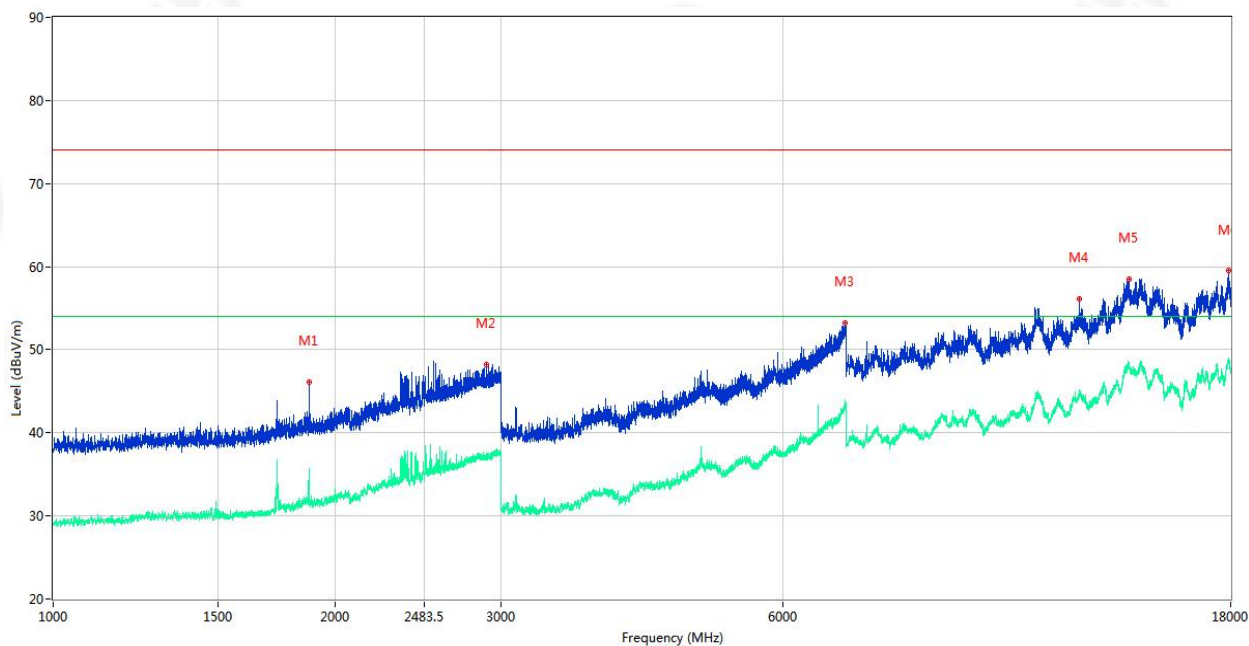
18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22016.000	48.90	3.42	52.32	74.00	-21.68	peak
2	22016.000	39.67	3.42	43.09	54.00	-10.91	AVG



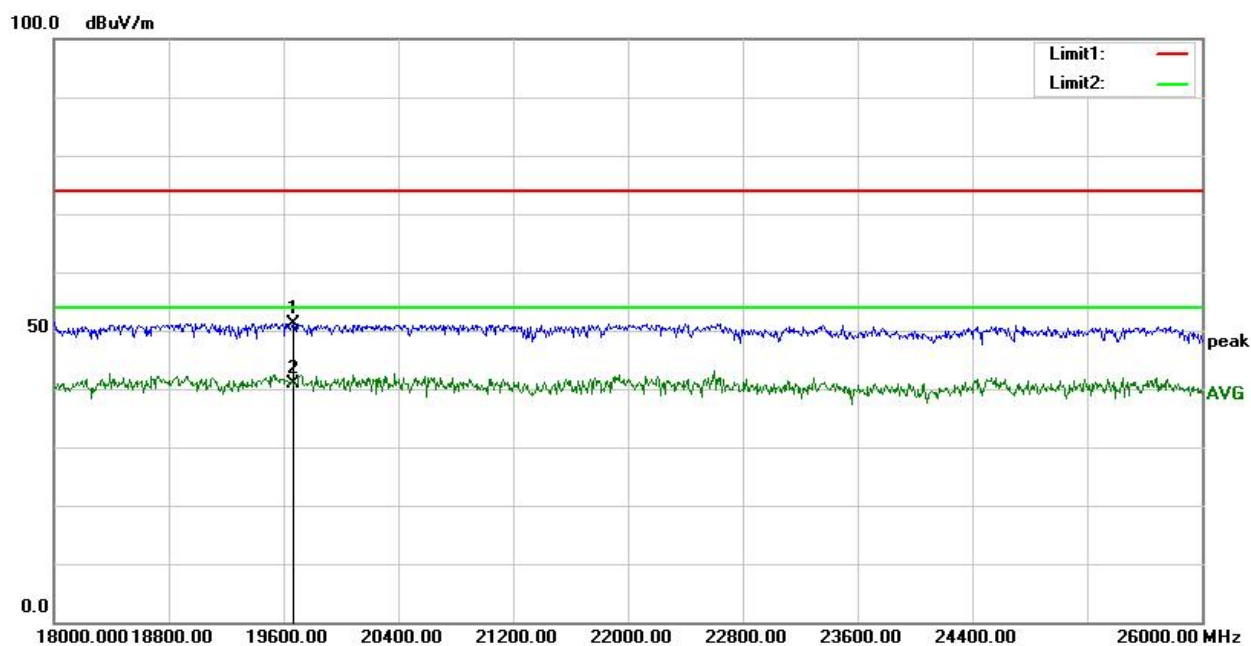
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1875.000	46.10	-0.11	74.0	-27.90	Peak	46.50	Vertical	Pass
1**	1875.000	35.74	-0.11	54.0	-18.26	AV	46.50	Vertical	Pass
2	2893.500	48.28	4.91	74.0	-25.72	Peak	354.50	Vertical	Pass
2**	2893.500	37.25	4.91	54.0	-16.75	AV	354.50	Vertical	Pass
3	6978.000	53.23	1.14	74.0	-20.77	Peak	160.20	Vertical	Pass
3**	6978.000	42.95	1.14	54.0	-11.05	AV	160.20	Vertical	Pass
4	12423.000	56.15	2.95	74.0	-17.85	Peak	83.30	Vertical	Pass
4**	12423.000	44.41	2.95	54.0	-9.59	AV	83.30	Vertical	Pass
5	14020.750	58.44	8.12	74.0	-15.56	Peak	330.80	Vertical	Pass
5**	14020.750	48.24	8.12	54.0	-5.76	AV	330.80	Vertical	Pass
6	17890.001	59.49	7.15	74.0	-14.51	Peak	142.40	Vertical	Pass
6**	17890.001	48.42	7.15	54.0	-5.58	AV	142.40	Vertical	Pass



18GHz-26GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19664.000	49.63	1.58	51.21	74.00	-22.79	peak
2	19664.000	39.33	1.58	40.91	54.00	-13.09	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 modes have been measured, only worst mode was reported.



5. RADIATED BANDEMISSIONMEASUREMENT

5.1 TEST REQUIREMENT

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+Cor 1-2023				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (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

Above 1GHz test procedure as below:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.
7. Test the EUT in the lowest channel,the Highest channel

Note:

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

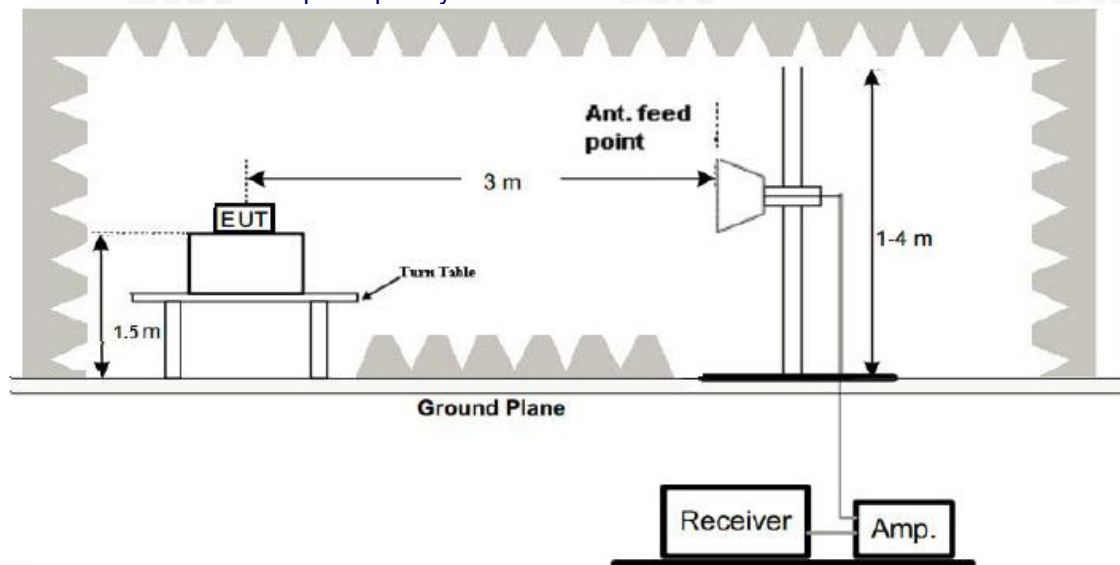
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

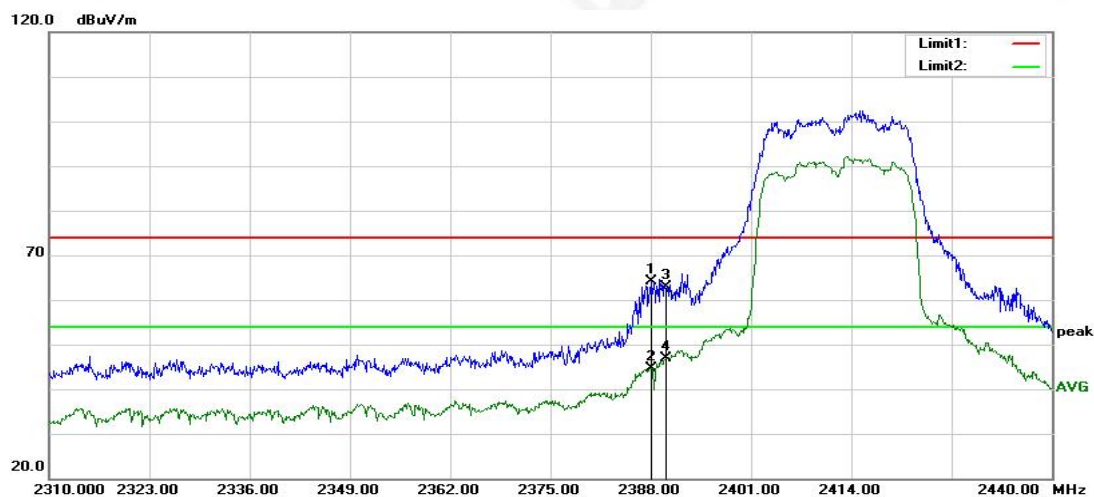
The EUT tested system was configured as the statements of 5.5 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

802.11ax20-Low

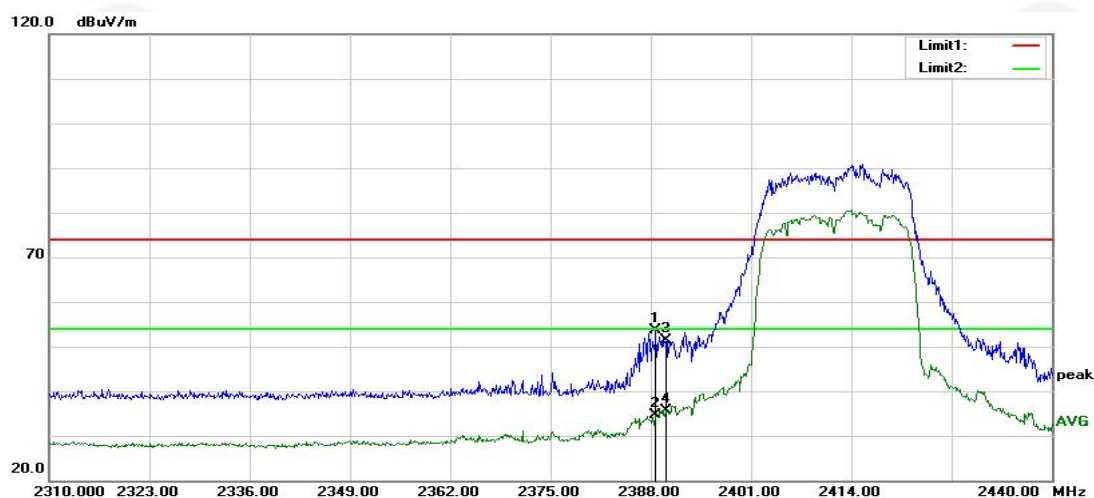
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.130	63.24	0.79	64.03	74.00	-9.97	peak
2	2388.130	43.82	0.79	44.61	54.00	-9.39	AVG
3	2390.000	62.09	0.81	62.90	74.00	-11.10	peak
4	2390.000	46.17	0.81	46.98	54.00	-7.02	AVG



Vertical

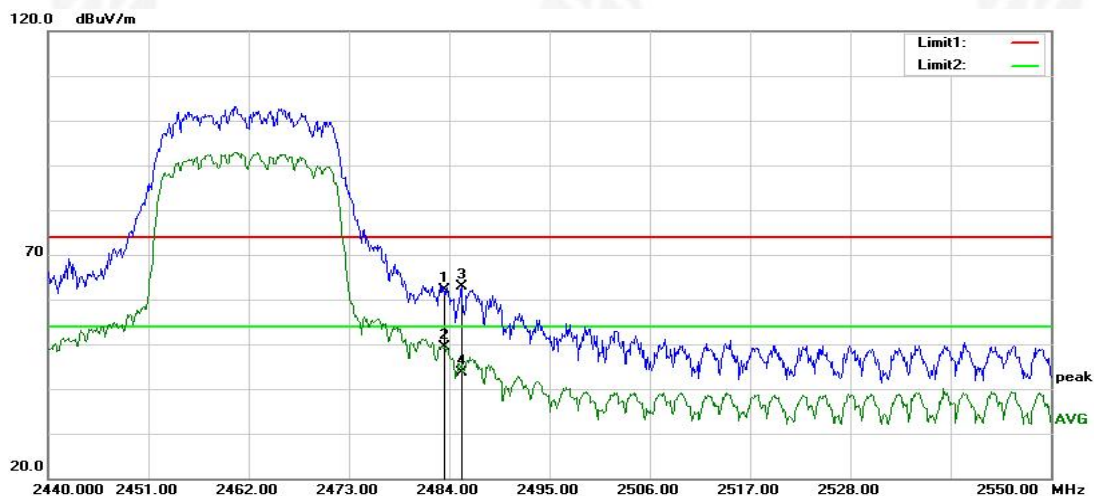


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.650	52.88	0.80	53.68	74.00	-20.32	peak
2	2388.650	33.83	0.80	34.63	54.00	-19.37	AVG
3	2390.000	50.52	0.81	51.33	74.00	-22.67	peak
4	2390.000	34.92	0.81	35.73	54.00	-18.27	AVG



802.11ax20-High

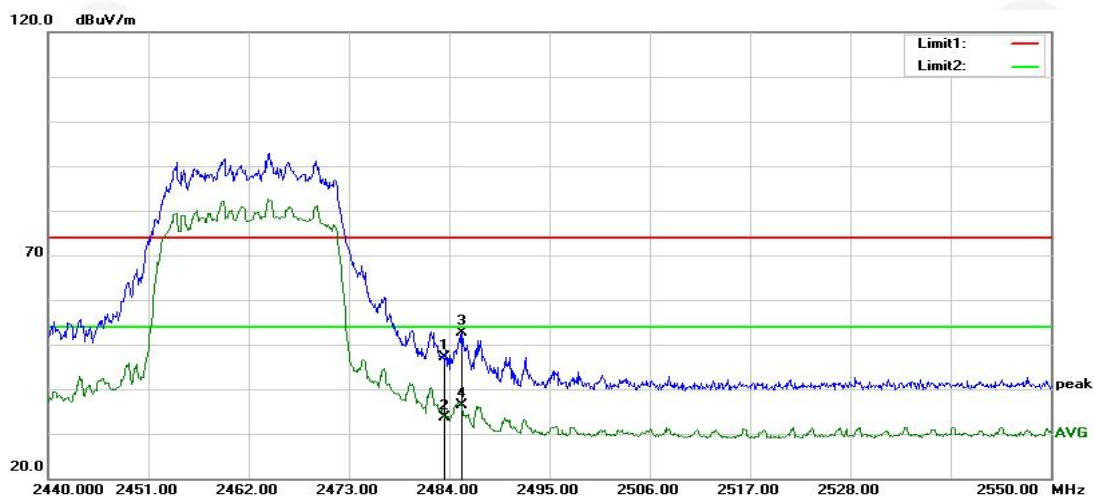
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.22	1.02	62.24	74.00	-11.76	peak
2	2483.500	48.48	1.02	49.50	54.00	-4.50	AVG
3	2485.320	61.92	1.02	62.94	74.00	-11.06	peak
4	2485.320	42.54	1.02	43.56	54.00	-10.44	AVG



Vertical

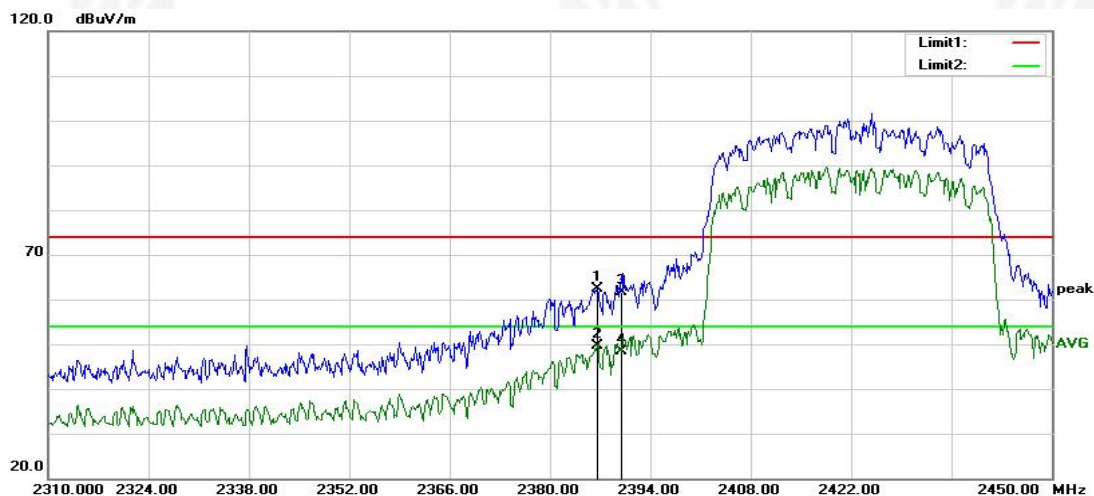


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	46.08	1.02	47.10	74.00	-26.90	peak
2	2483.500	32.67	1.02	33.69	54.00	-20.31	AVG
3	2485.430	51.68	1.02	52.70	74.00	-21.30	peak
4	2485.430	35.35	1.02	36.37	54.00	-17.63	AVG



802.11ax40-Low

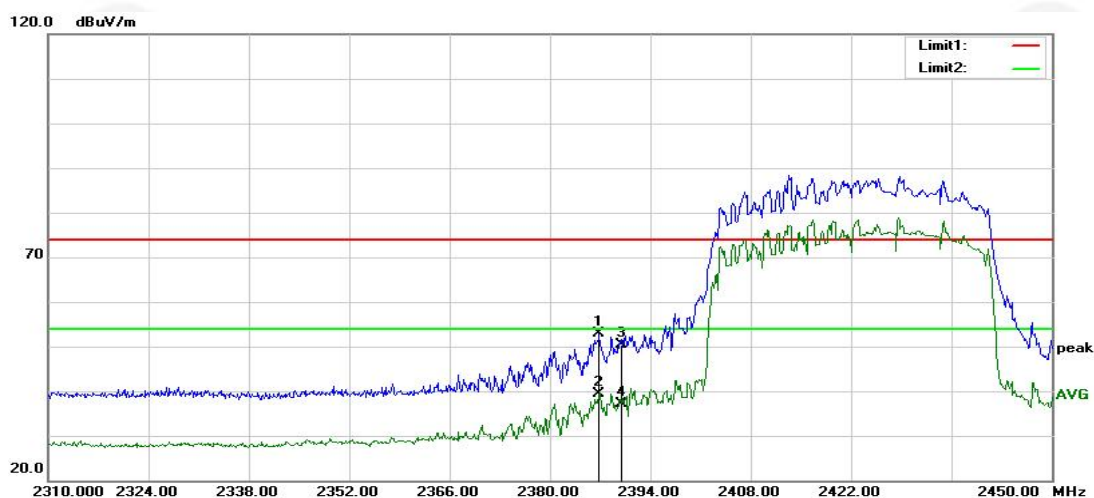
Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.580	61.60	0.78	62.38	74.00	-11.62	peak
2	2386.580	48.76	0.78	49.54	54.00	-4.46	AVG
3	2390.000	60.76	0.81	61.57	74.00	-12.43	peak
4	2390.000	47.67	0.81	48.48	54.00	-5.52	AVG



Vertical

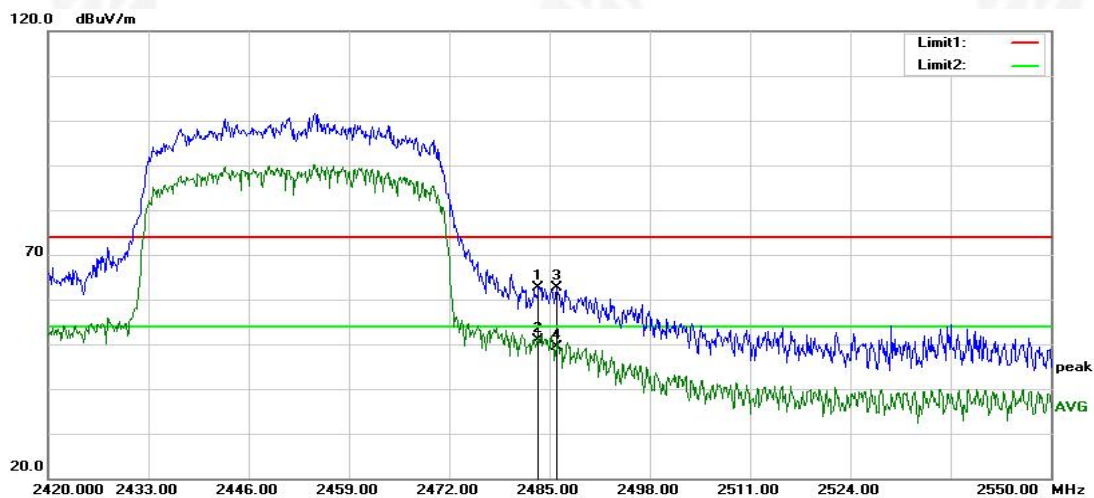


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.860	51.97	0.79	52.76	74.00	-21.24	peak
2	2386.860	38.60	0.79	39.39	54.00	-14.61	AVG
3	2390.000	49.63	0.81	50.44	74.00	-23.56	peak
4	2390.000	36.44	0.81	37.25	54.00	-16.75	AVG



802.11ax40-High

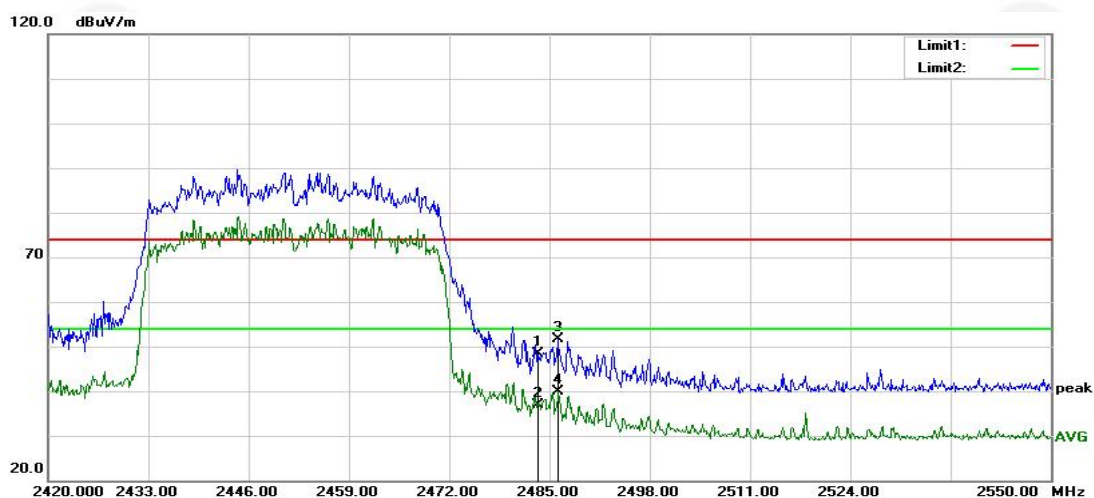
Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	61.55	1.02	62.57	74.00	-11.43	peak
2	2483.500	49.85	1.02	50.87	54.00	-3.13	AVG
3	2485.910	61.60	1.02	62.62	74.00	-11.38	peak
4	2485.910	48.29	1.02	49.31	54.00	-4.69	AVG



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.31	1.02	48.33	74.00	-25.67	peak
2	2483.500	35.90	1.02	36.92	54.00	-17.08	AVG
3	2486.040	50.68	1.02	51.70	74.00	-22.30	peak
4	2486.040	38.80	1.02	39.82	54.00	-14.18	AVG

Note: All modes have been measured, only worst mode was reported.



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

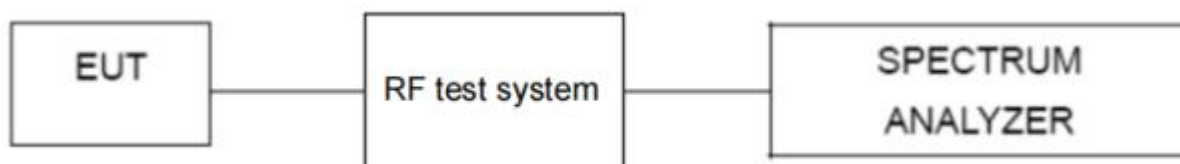
6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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 6.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

Note: The test data please refer to APPENDIX 1.



7. 6DB OCCUPIED BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB Occupied Bandwidth)	2400-2483.5	PASS

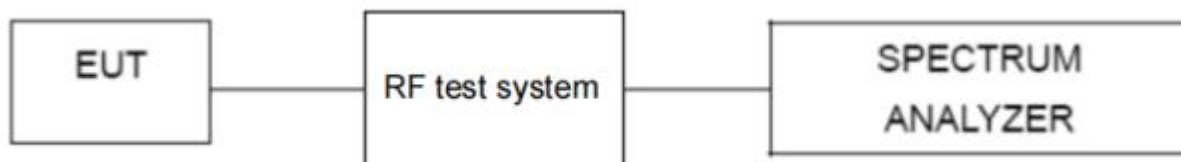
7.2 TEST PROCEDURE

1. Set RBW = 1%~5%OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

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 7.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULT

Note: The test data please refer to APPENDIX 1.



8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 8.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULT

Note: The test data please refer to APPENDIX 1.



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

9.2 TEST PROCEDURE

A. Reference level measurement, establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW = $[3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

B. Emission level measurement, establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW = $[3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

9.3 DEVIATION FROM STANDARD

No deviation.



9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 9.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



10. DUTY CYCLE

Test Method:	ANSI C63.10-2020+Cor 1-2023
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10.1 APPLIED PROCEDURES / LIMIT

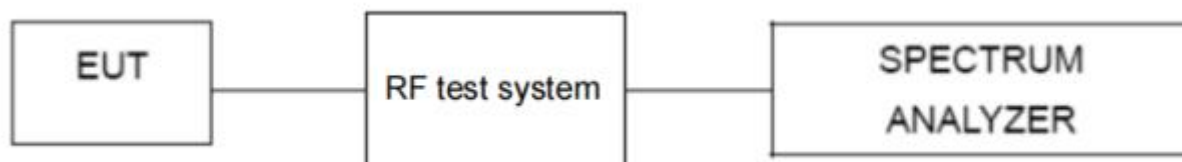
Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) 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:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ 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 the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

10.2 DEVIATION FROM STANDARD

No deviation.

10.3 TEST SETUP



10.4 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



11. ANTENNA REQUIREMENT

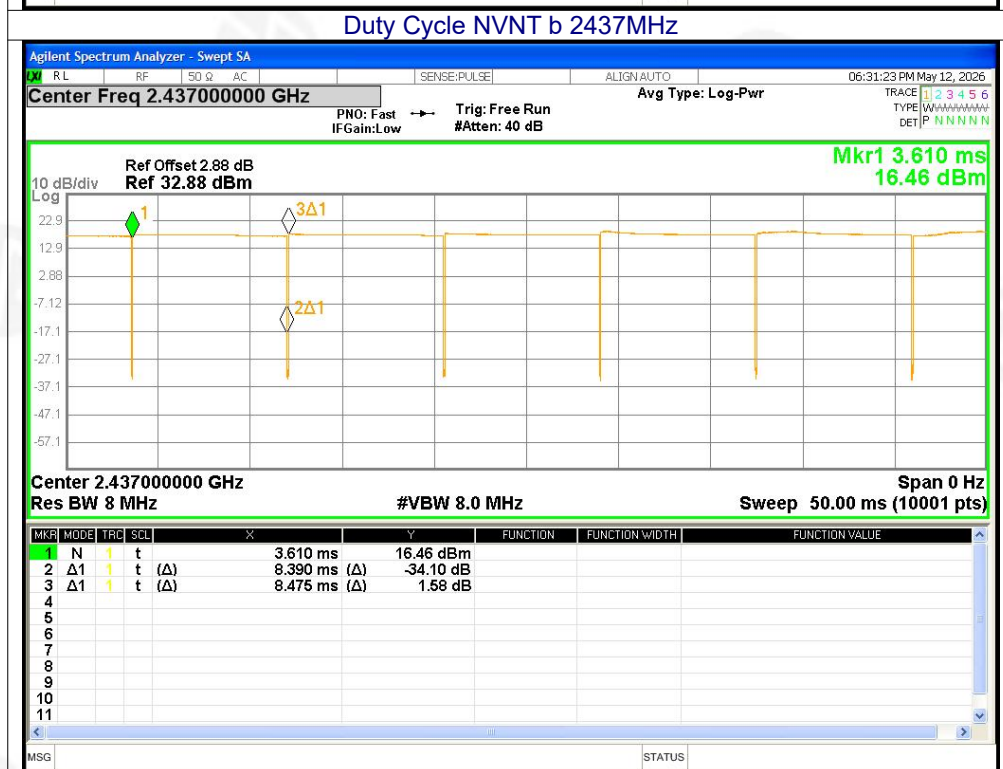
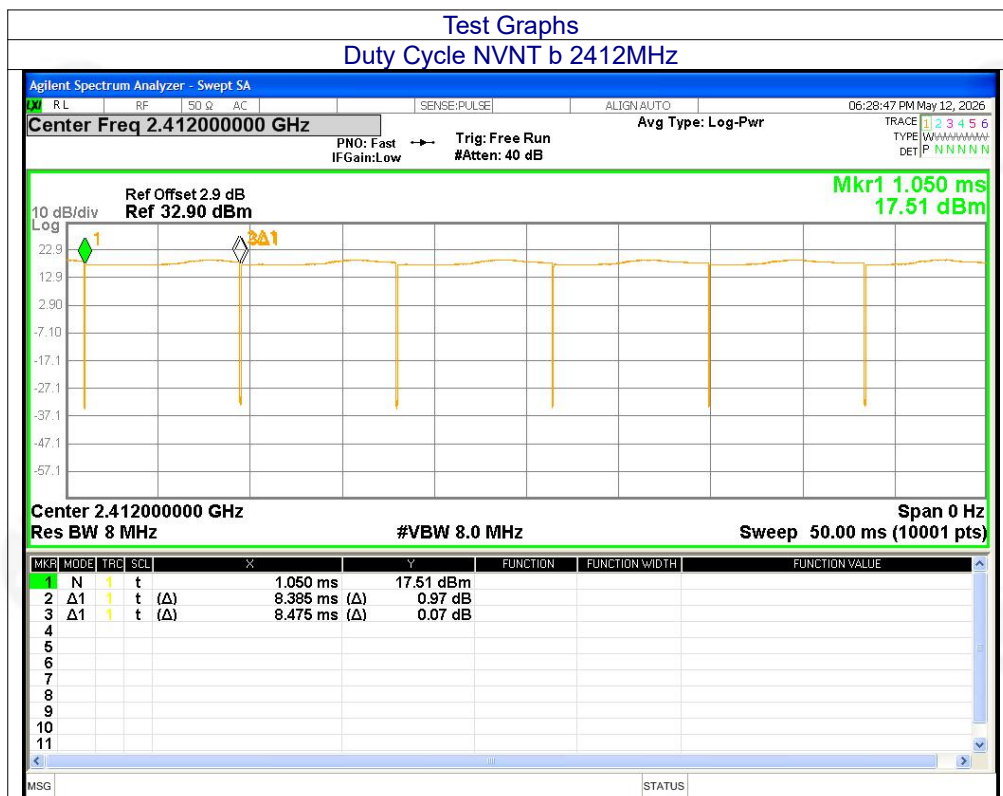
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is FPC Antenna, the best case gain of the antenna is 4dBi, reference to the appendix II for details.	

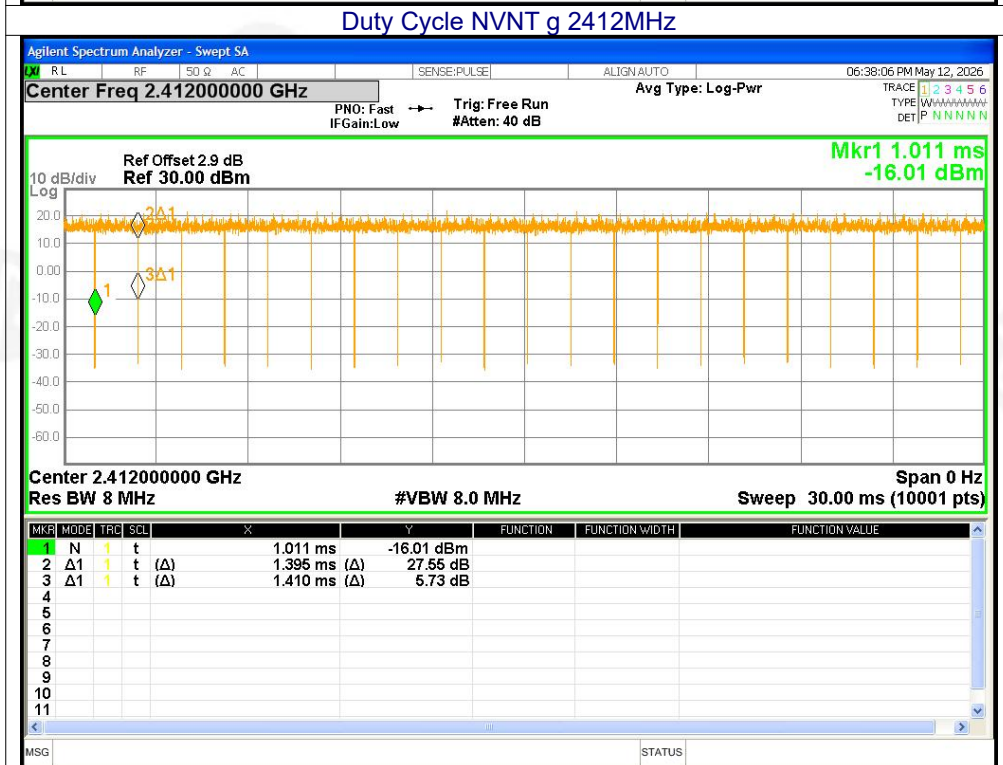
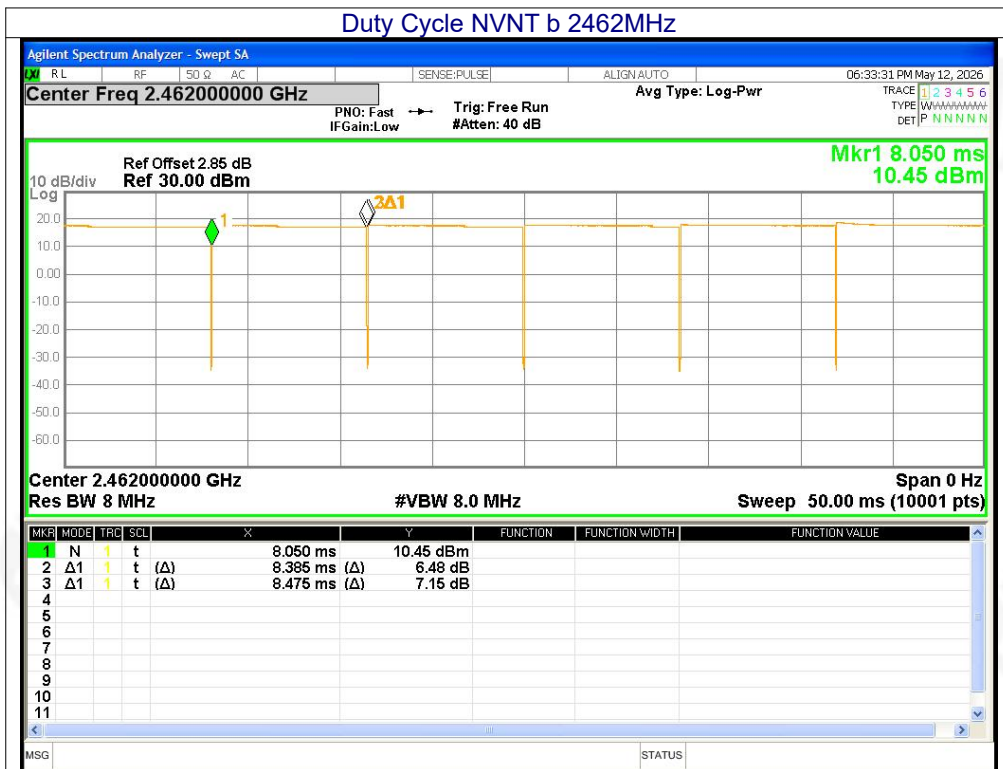


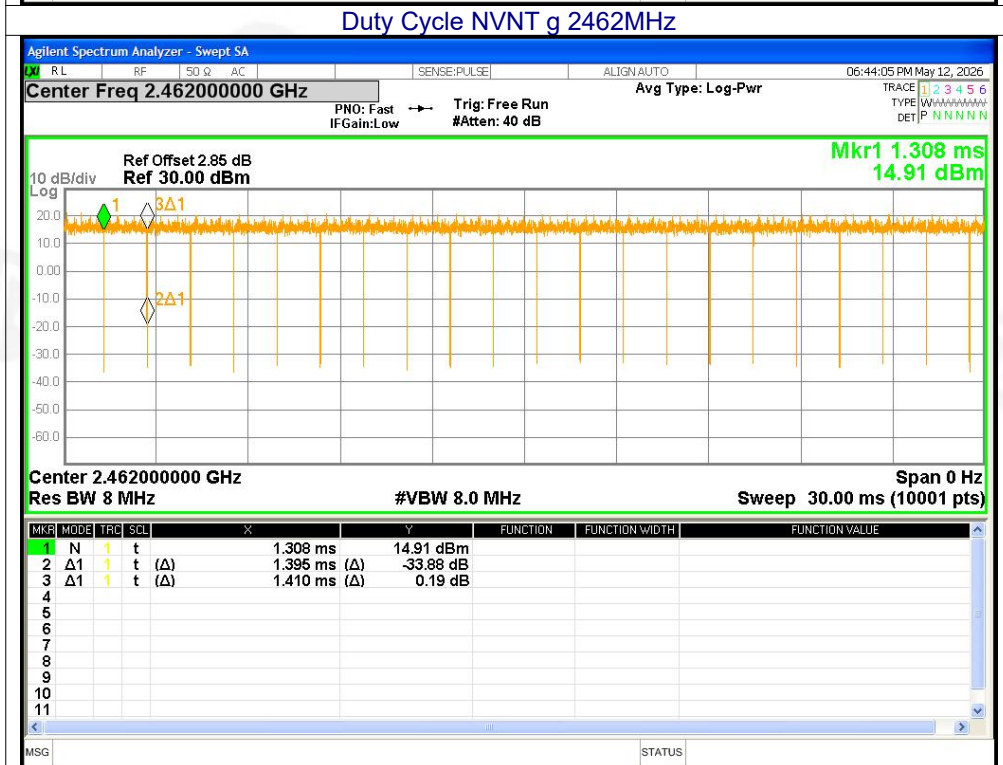
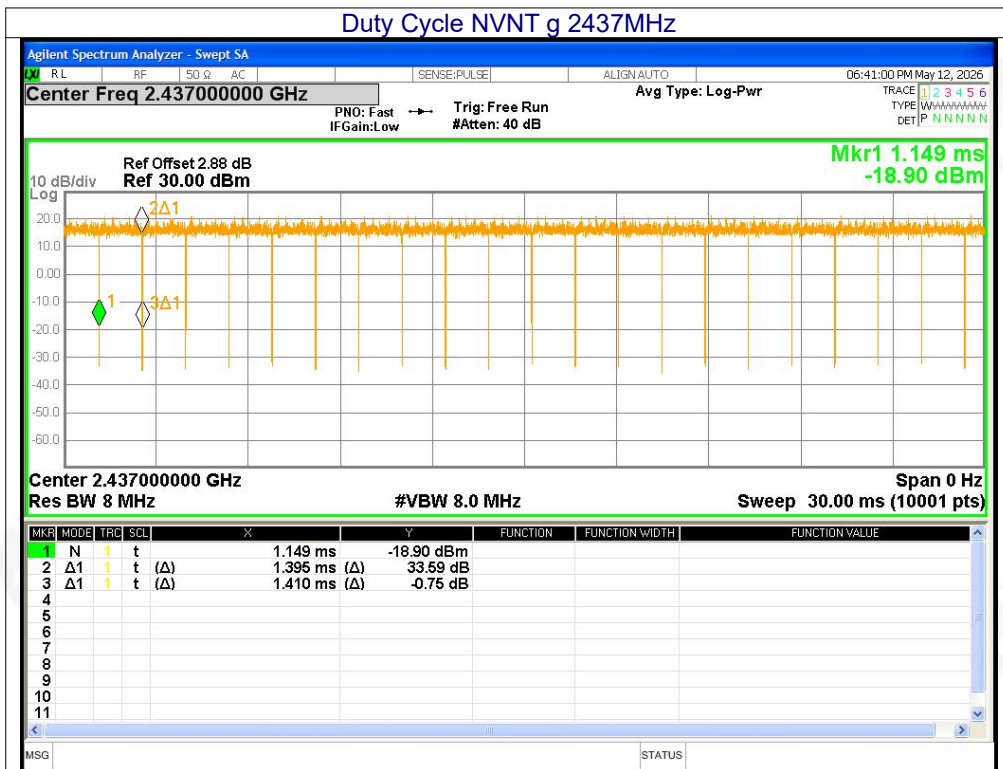
12. APPENDIX 1-TEST DATA

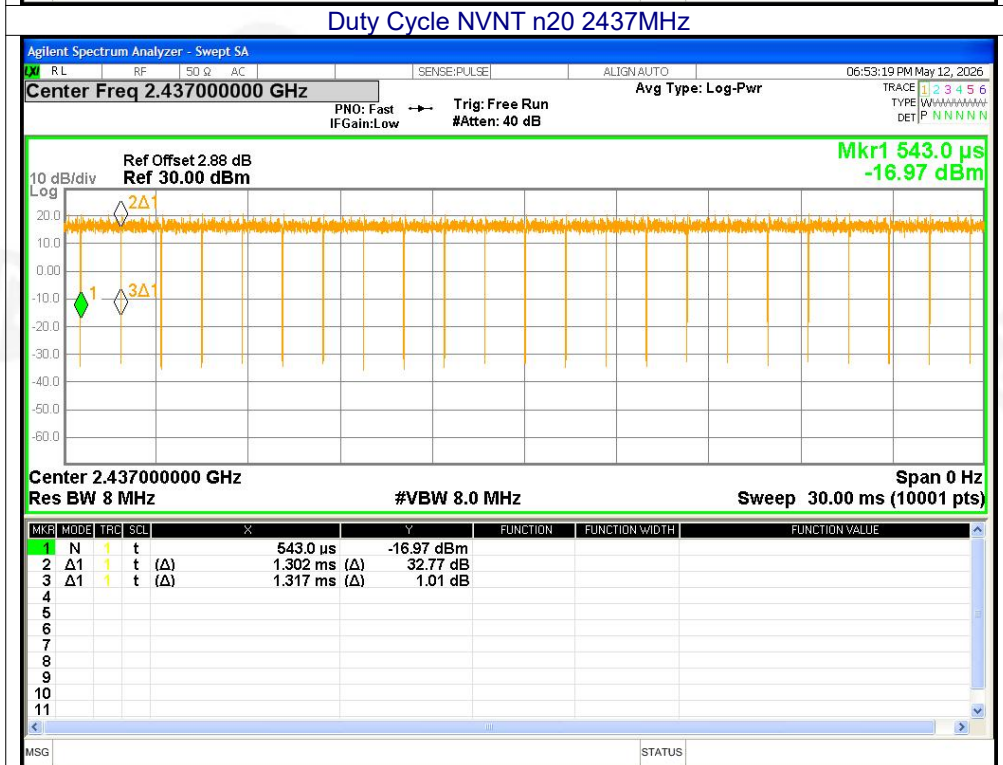
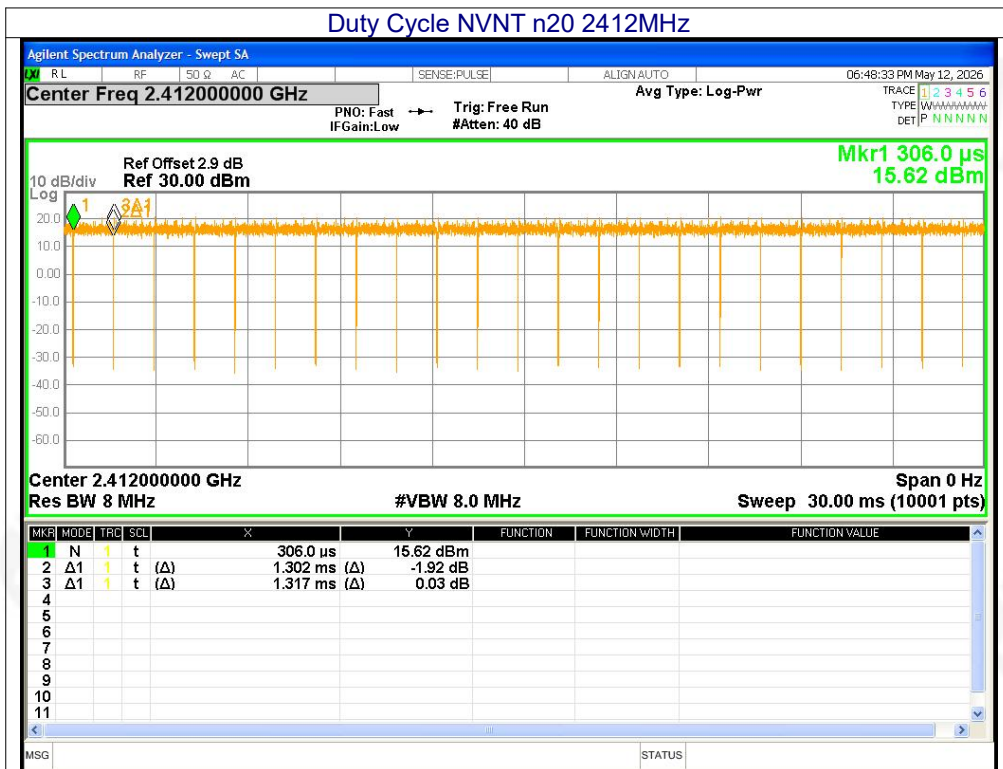
Duty Cycle

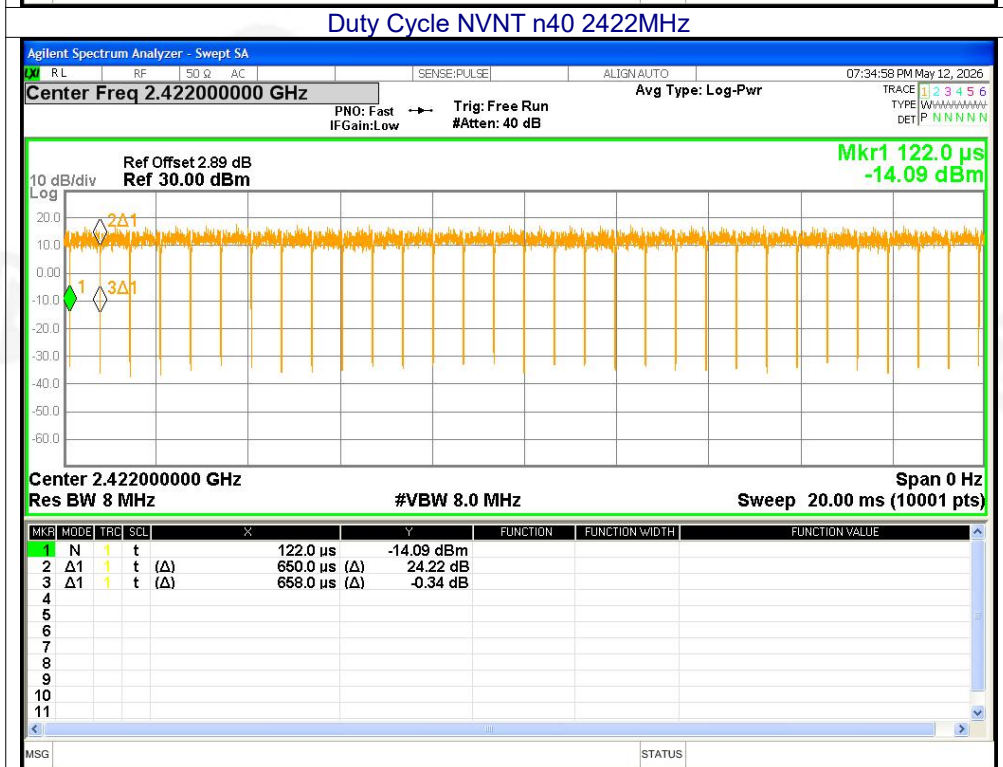
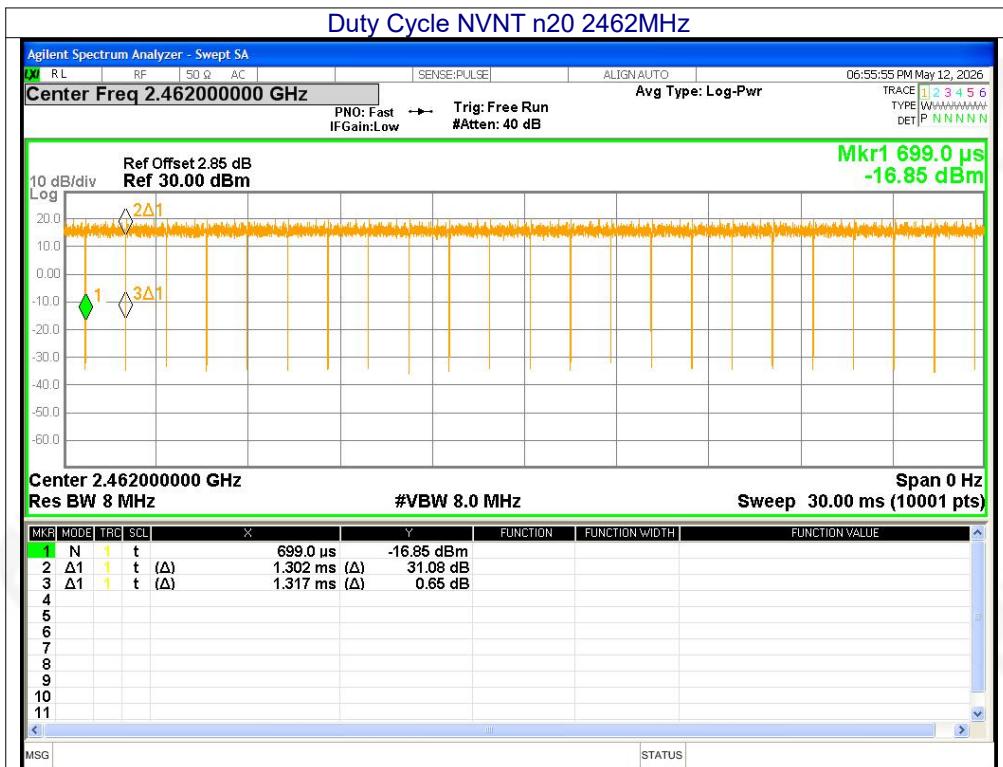
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	8.385	8.475	98.94	0.05	0.12
NVNT	b	2437	8.39	8.475	99	0.04	0.12
NVNT	b	2462	8.385	8.475	98.94	0.05	0.12
NVNT	g	2412	1.395	1.41	98.94	0.05	0.72
NVNT	g	2437	1.395	1.41	98.94	0.05	0.72
NVNT	g	2462	1.395	1.41	98.94	0.05	0.72
NVNT	n20	2412	1.302	1.317	98.86	0.05	0.77
NVNT	n20	2437	1.302	1.317	98.86	0.05	0.77
NVNT	n20	2462	1.302	1.317	98.86	0.05	0.77
NVNT	n40	2422	0.65	0.658	98.78	0.05	1.54
NVNT	n40	2437	0.65	0.658	98.78	0.05	1.54
NVNT	n40	2452	0.65	0.658	98.78	0.05	1.54
NVNT	ax20	2412	1.068	1.122	95.19	0.21	0.94
NVNT	ax20	2437	1.068	1.122	95.19	0.21	0.94
NVNT	ax20	2462	1.068	1.122	95.19	0.21	0.94
NVNT	ax40	2422	0.566	0.618	91.59	0.38	1.77
NVNT	ax40	2437	0.566	0.618	91.59	0.38	1.77
NVNT	ax40	2452	0.564	0.616	91.56	0.38	1.77

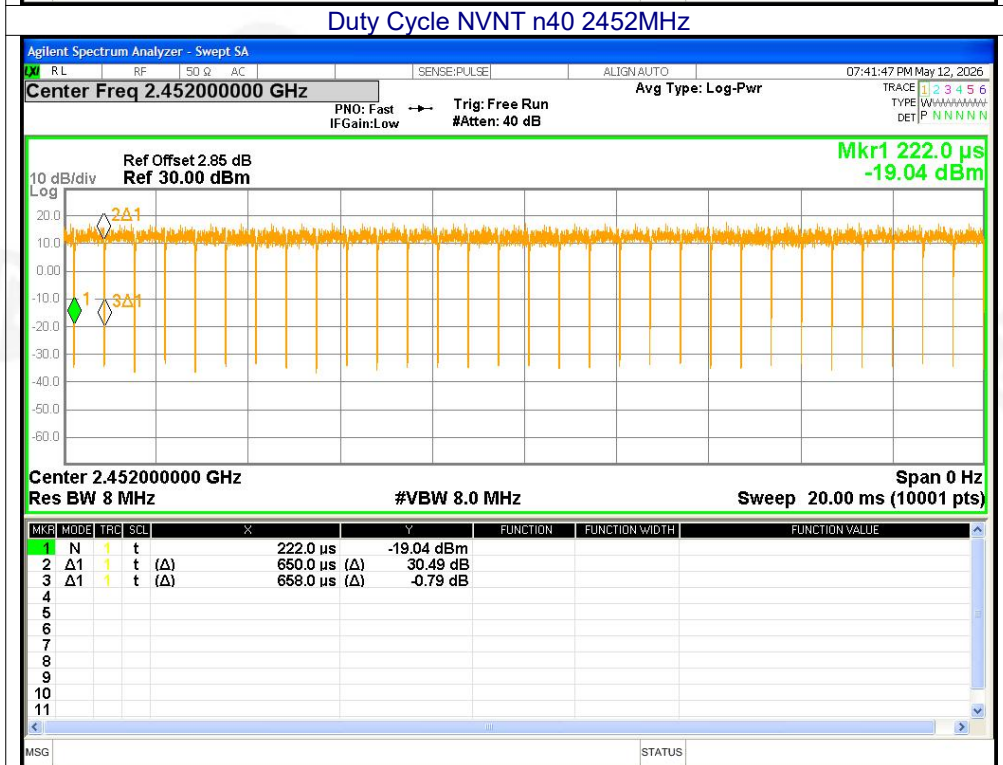
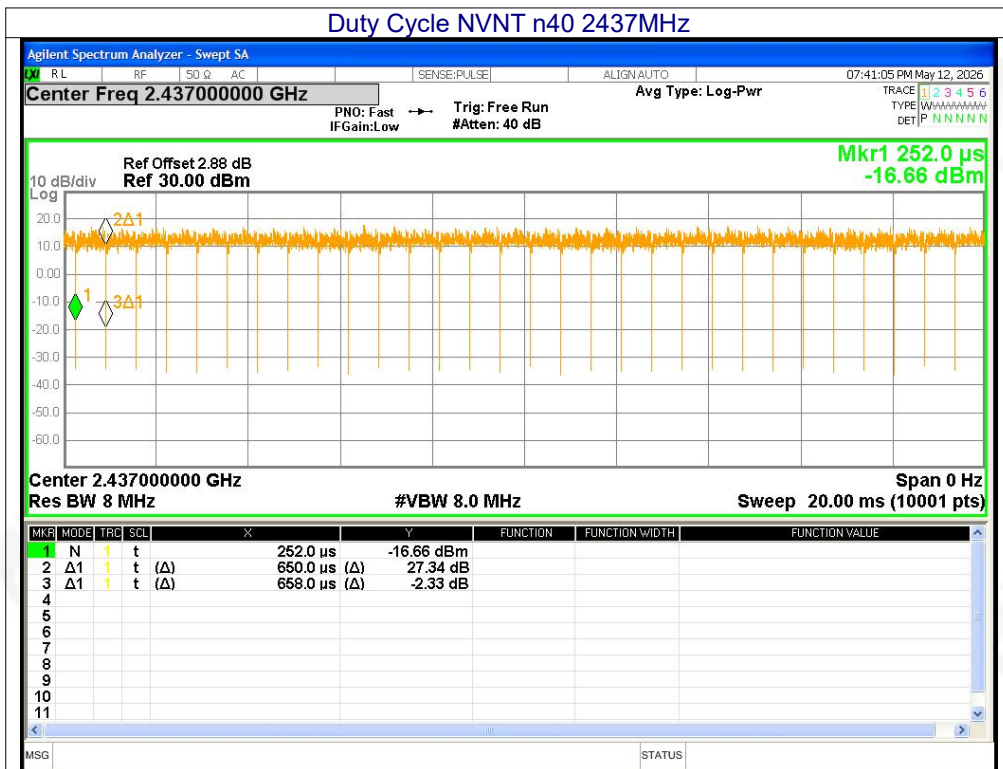


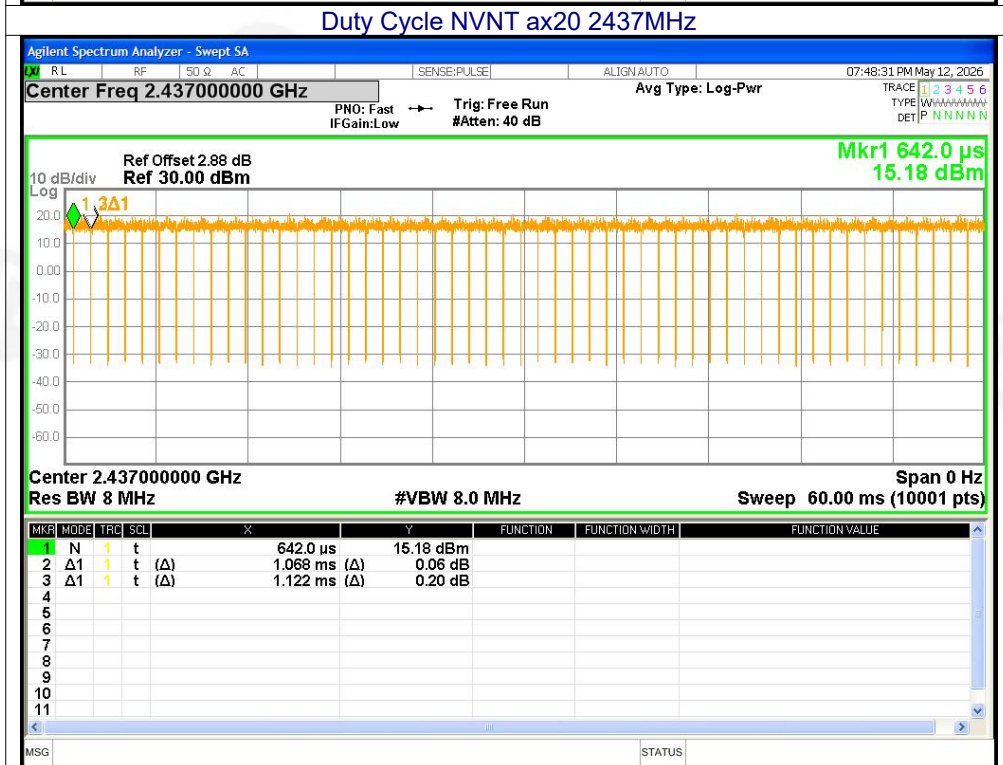
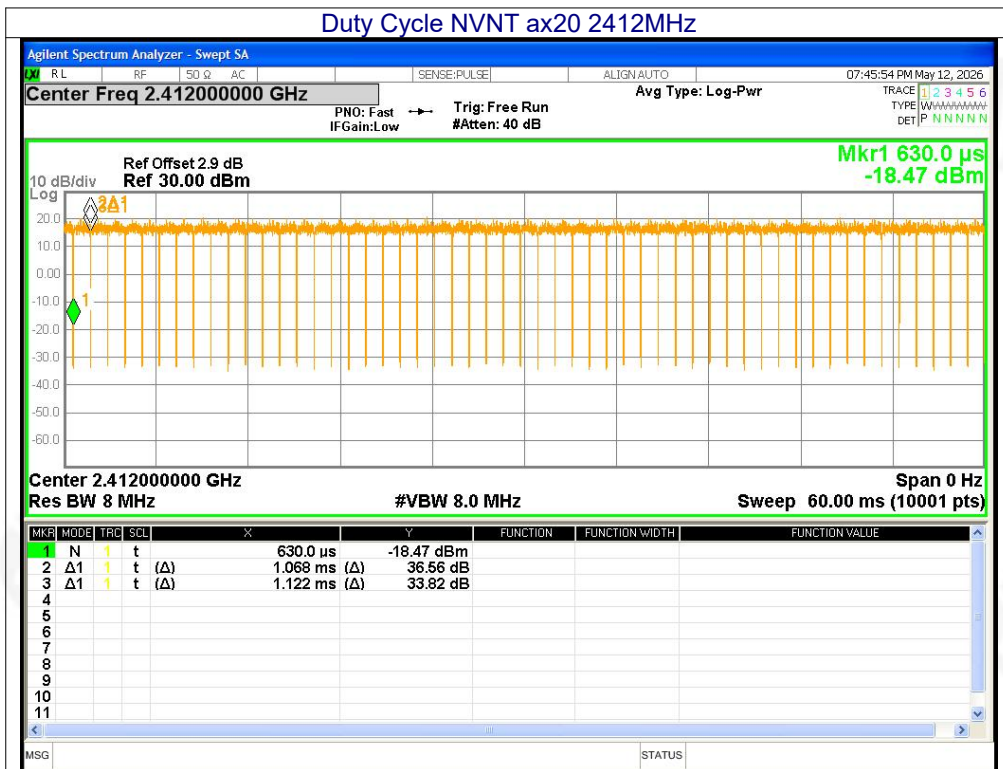


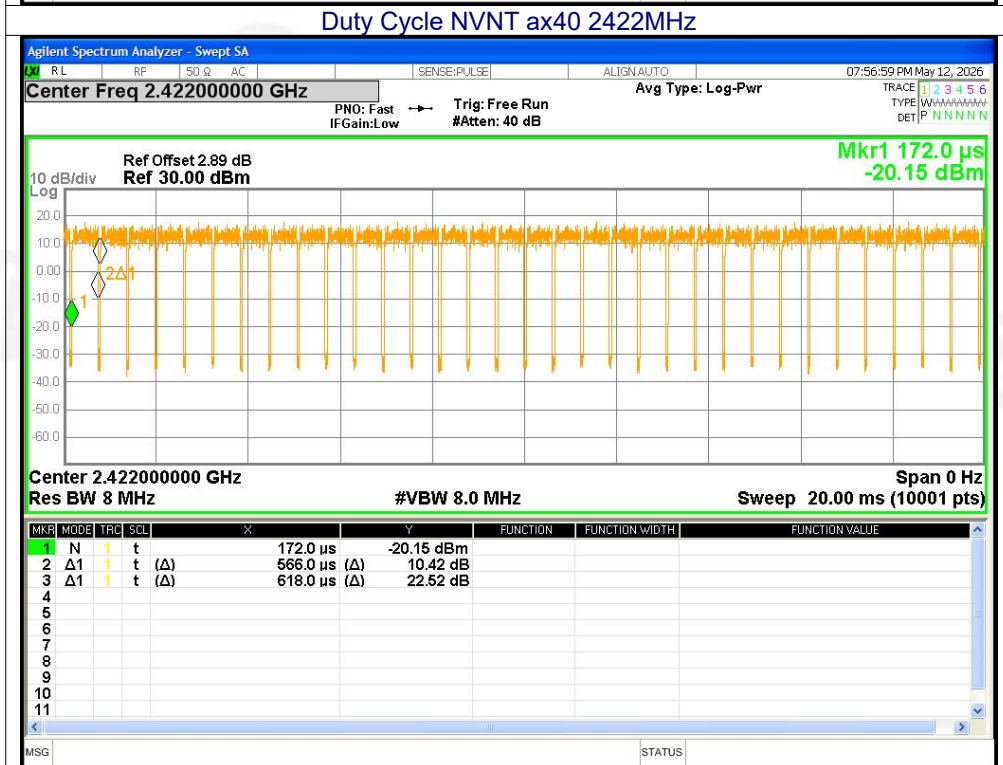
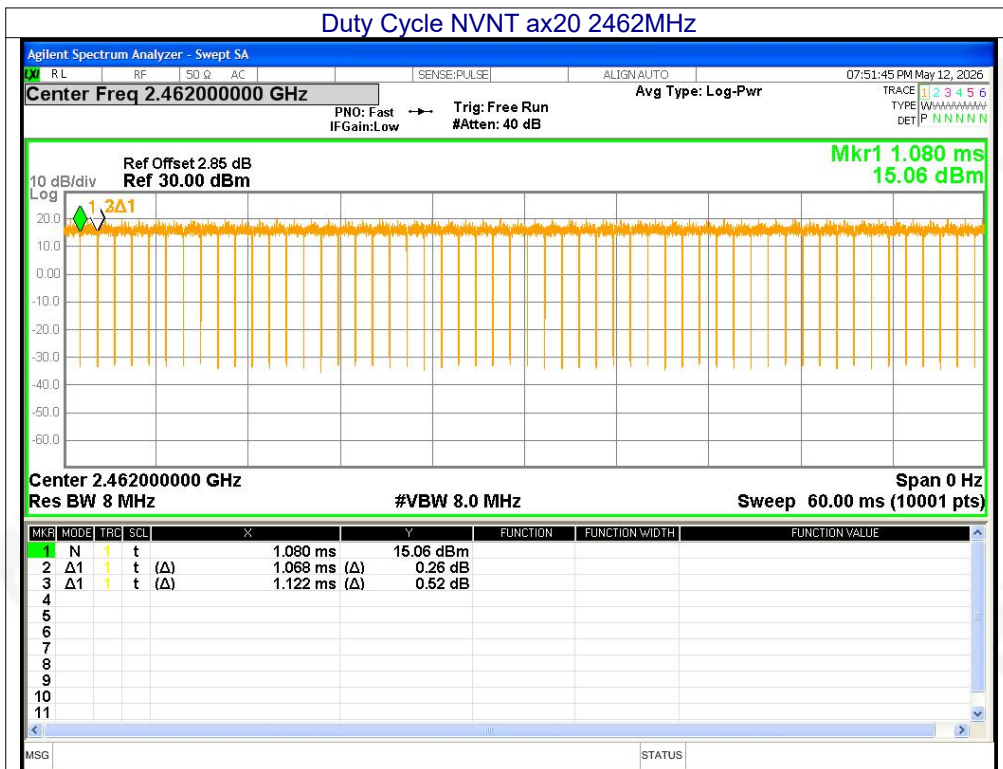


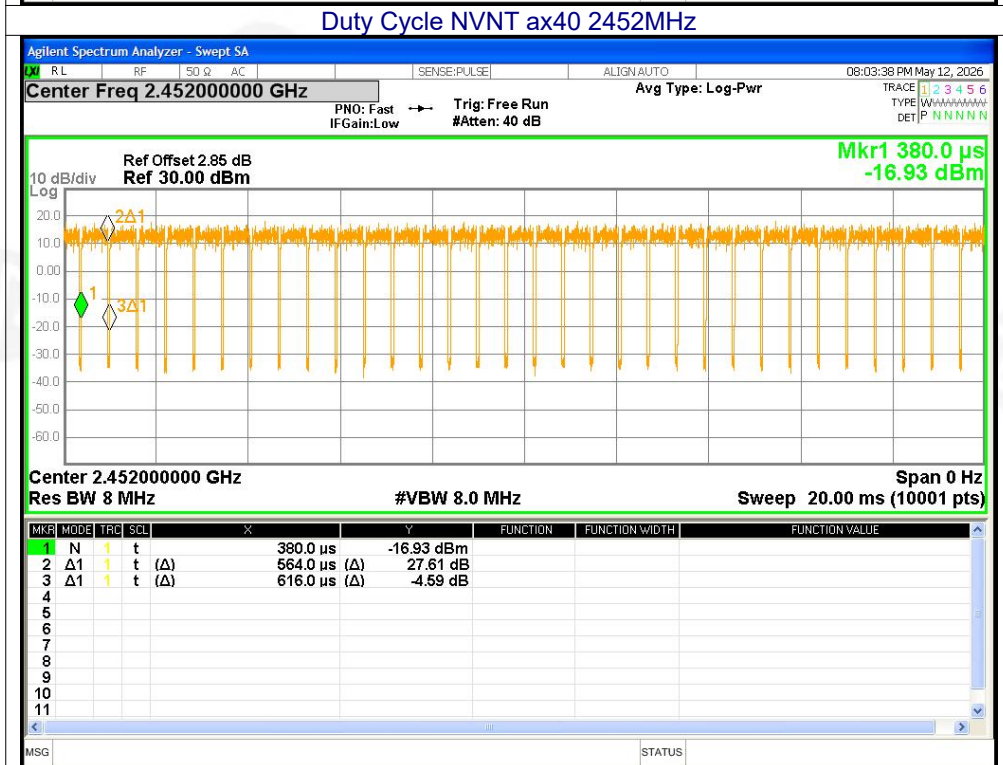
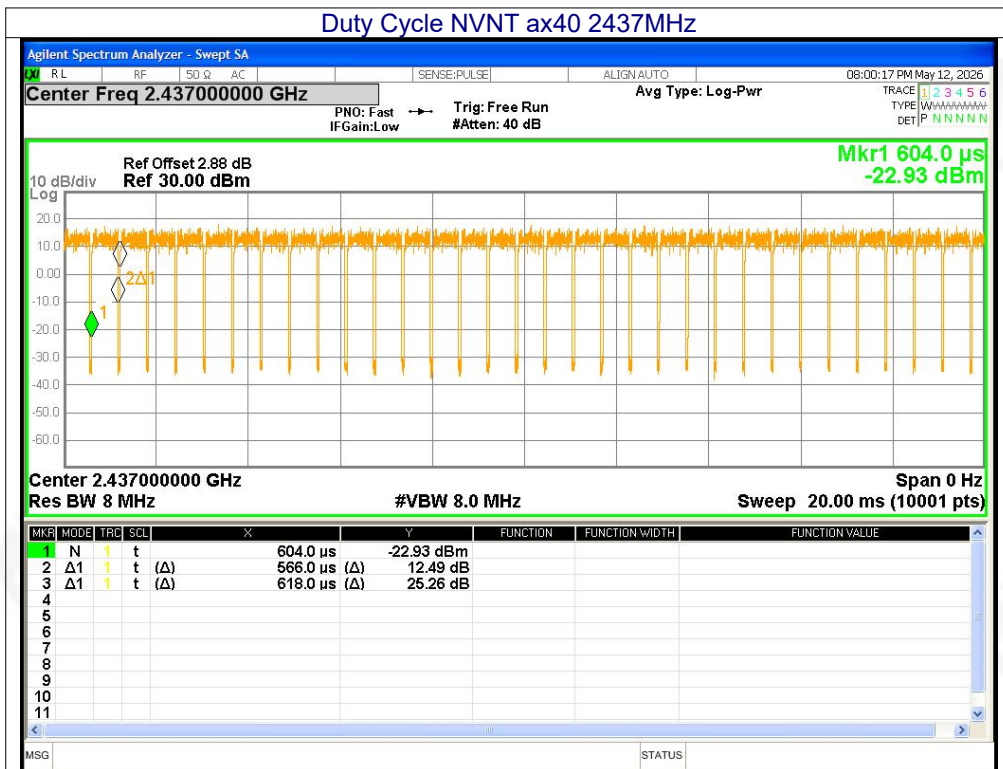














Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	19.18	<=30	Pass
NVNT	b	2437	18.96	<=30	Pass
NVNT	b	2462	18.66	<=30	Pass
NVNT	g	2412	18.59	<=30	Pass
NVNT	g	2437	18.45	<=30	Pass
NVNT	g	2462	18.28	<=30	Pass
NVNT	n20	2412	18.86	<=30	Pass
NVNT	n20	2437	18.58	<=30	Pass
NVNT	n20	2462	18	<=30	Pass
NVNT	n40	2422	17.64	<=30	Pass
NVNT	n40	2437	17.82	<=30	Pass
NVNT	n40	2452	17.78	<=30	Pass
NVNT	ax20	2412	18.9	<=30	Pass
NVNT	ax20	2437	18.86	<=30	Pass
NVNT	ax20	2462	18.77	<=30	Pass
NVNT	ax40	2422	18.8	<=30	Pass
NVNT	ax40	2437	18.72	<=30	Pass
NVNT	ax40	2452	18.78	<=30	Pass



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.112	≥ 0.5	Pass
NVNT	b	2437	9.111	≥ 0.5	Pass
NVNT	b	2462	9.1	≥ 0.5	Pass
NVNT	g	2412	14.65	≥ 0.5	Pass
NVNT	g	2437	14.17	≥ 0.5	Pass
NVNT	g	2462	14.12	≥ 0.5	Pass
NVNT	n20	2412	18.34	≥ 0.5	Pass
NVNT	n20	2437	15.03	≥ 0.5	Pass
NVNT	n20	2462	16.58	≥ 0.5	Pass
NVNT	n40	2422	27.07	≥ 0.5	Pass
NVNT	n40	2437	28.32	≥ 0.5	Pass
NVNT	n40	2452	27.26	≥ 0.5	Pass
NVNT	ax20	2412	15.35	≥ 0.5	Pass
NVNT	ax20	2437	13.99	≥ 0.5	Pass
NVNT	ax20	2462	15.06	≥ 0.5	Pass
NVNT	ax40	2422	27.11	≥ 0.5	Pass
NVNT	ax40	2437	26.59	≥ 0.5	Pass
NVNT	ax40	2452	26.75	≥ 0.5	Pass

