

FCC &ISED Radio Test Report**FCC ID: 2AC23-DCT2W****IC: 12290A-DCT2W****The report concerns: Original Grant**

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Date Sample(s) Received : 2021-08-20
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Testing Laboratory : DongGuanShuoXin Electronic Technology Co., Ltd.
Address : Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City,
GuangDong, China

Applicant's name : Hui Zhou Gaoshengda Technology Co., LTD
Address : NO.75 Zhongkai Development Area, Huizhou,
Guangdong, China
Manufacturer : Hui Zhou Gaoshengda Technology Co., LTD

Equipment : WIFI+BT Module
Trade Mark : GSD
Model : DCT2WM2611
Ratings : I/P: DC 5V

Test Engineer:



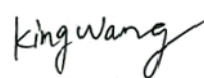
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Responsible Engineer :



Smile Wang

Authorized Signatory:



King Wang

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1TEST REPORT DECLARE

Applicant	Hui Zhou Gaoshengda Technology Co., LTD
Address	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Manufacturer	Hui Zhou Gaoshengda Technology Co., LTD
Address	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Factory	Hui Zhou Gaoshengda Technology Co., LTD
Address	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Equipment	WIFI+BT Module
Model No.	DCT2WM2611
Trade Mark	GSD
Standard	FCC Part15, Subpart E(15.407) RSS-247 Issue 2, Feb. 2017 RSS-Gen Issue 5, Apr. 2018 ANSI C63.10-2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

2SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207 15.407(b)	RSS-GEN 8.8	AC Power Line Conducted Emissions	PASS	-----
15.407(b) 15.205(a) 15.209(a)	RSS-247 6.2.1.2 RSS-247 6.2.4.2 RSS-GEN 8.9 RSS-GEN 8.10	Radiated Emissions	PASS	-----
15.407(a) 15.407(e)	RSS-247 6.2.1.1 RSS-247 6.2.2.1 RSS-247 6.2.3.1 RSS-247 6.2.4.1 RSS-GEN 6.7	Spectrum Bandwidth	PASS	-----
15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.2.1 RSS-247 6.2.3.1 RSS-247 6.2.4.1	Maximum Output Power	PASS	-----
15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.2.1 RSS-247 6.2.3.1 RSS-247 6.2.4.1	Power Spectral Density	PASS	-----
15.407(g)	RSS-GEN 6.11	Frequency Stability	PASS	-----
15.203	RSS-247 6.4(a)	Antenna Requirements	PASS	Note(4)
15.407(c)	RSS-GEN 8.8	Automatically Discontinue Transmission	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (3) For UNII-1 this device was functioned as a
☐ Access point device ☒ Client device
- (4) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Uncertainty for Radiation Emission test (200MHz-1GHz)	6.10 dB (Polarize: V)
	5.08 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: V)
	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: V)
	5.26 dB (Polarize: H)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: V)
	5.06 dB (Polarize: H)
Uncertainty for radio frequency	$\pm 0.048\text{kHz}$
Uncertainty for conducted RF Power	$\pm 0.32\text{dB}$

Note:

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

Test Facility:

The Test site used by DongGuan ShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

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

Item	Registration No.	Expiration Date
CNAS	L3098	2024-08-27
A2LA	4893.01	2022-06-30
Innovation, Science and Economic Development Canada (ISED)	11033A CAB identifier: CN0083	2022-06-30
Federal Communications Commission (FCC)	171688 Designation No.: CN1235	2022-06-30

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	WIFI+BT Module	
Brand Name	GSD	
Test Model	DCT2WM2611	
Series Model	N/A	
Model Difference(s)	N/A	
Hardware Version	V1.0	
Software Version	V1.0	
Power Source	Supplied from USB.	
Power Rating	DC 5V	
Operation Frequency Bands	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz	
Modulation Type	OFDM	
Bit Rate of Transmitter	Up to 866.6Mbps	
Operating Mode	IEEE 802.11a: 1TX(Ant 1 or Ant 2) IEEE 802.11n (HT20): 2TX(Ant 1+Ant 2) IEEE 802.11n (HT40): 2TX(Ant 1+Ant 2) IEEE 802.11ac (VHT20): 2TX(Ant 1+Ant 2) IEEE 802.11ac (VHT40): 2TX(Ant 1+Ant 2) IEEE 802.11ac (VHT80): 2TX(Ant 1+Ant 2)	
Antenna Information	Antenna Type: PCB	Maximum Peak Gain:3dBi
Maximum Output Power for UNII-1 For FCC	IEEE 802.11a: 14.86dBm (0.0306W) IEEE 802.11n (HT20): 16.89dBm (0.0489 W) IEEE 802.11n (HT40): 16.71dBm (0.0469 W) IEEE 802.11ac (VHT20): 16.91dBm (0.0491 W) IEEE 802.11ac (VHT40): 16.65dBm (0.0462 W) IEEE 802.11ac (VHT80): 16.77dBm (0.0475 W)	
Maximum EIRP Output Power for UNII-1 For IC	IEEE 802.11a: 20.96dBm (0.1247W) IEEE 802.11n (HT20): 22.90dBm (0.1950 W) IEEE 802.11n (HT40): 22.72dBm (0.1871 W) IEEE 802.11ac (VHT20): 22.92dBm (0.1959 W) IEEE 802.11ac (VHT40): 22.66dBm (0.1845 W) IEEE 802.11ac (VHT80): 22.78dBm (0.1897 W)	
Maximum Output Power for UNII-3	IEEE 802.11a: 15.00dBm (0.0316 W) IEEE 802.11n (HT20): 16.86dBm (0.0485 W) IEEE 802.11n (HT40): 16.87dBm (0.0486 W) IEEE 802.11ac (VHT20): 16.66dBm (0.0463 W) IEEE 802.11ac (VHT40): 16.79dBm (0.0478 W) IEEE 802.11ac (VHT80): 16.54dBm (0.0451 W)	

Note:

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

2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX N(HT40) Mode / CH157 (UNII-3)

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 13	TX N(HT40) Mode / CH157 (UNII-3)

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX N(HT40) Mode / CH157 (UNII-3)

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

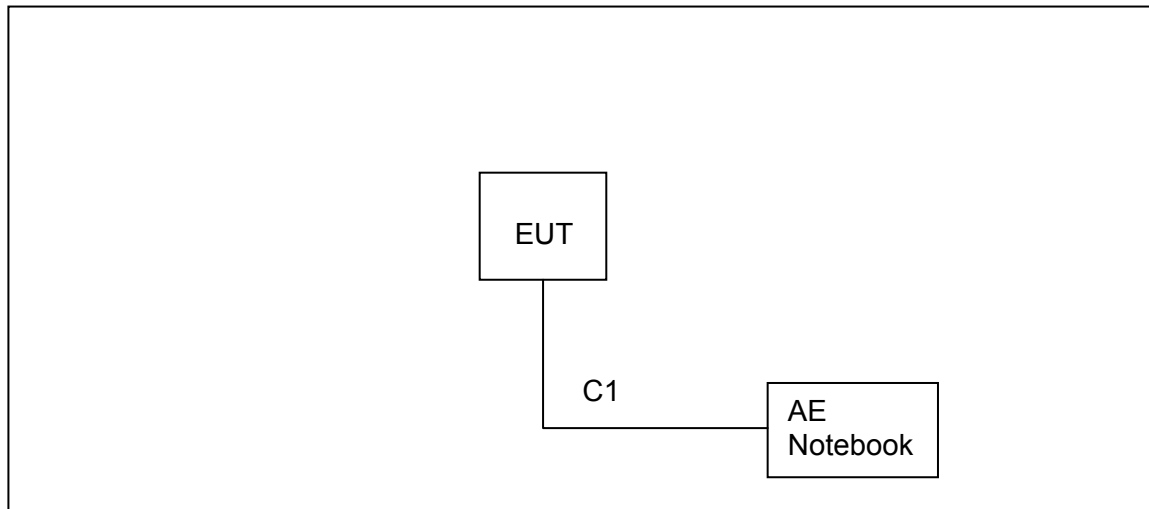
Note:

- (1) For radiated emission below 1 GHz and AC power line conducted emissions test, the IEEE 802.11n40channel 38is found to be the worst case and recorded.

3.3PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software	MT7663QA		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	21	22	21
IEEE 802.11n (HT20)	22	23	21
IEEE 802.11ac (VHT20)	23	24	23
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	21	21	
IEEE 802.11ac (VHT40)	25	24	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	27		

UNII-3			
Test Software	MT7663QA		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	20	20	1F
IEEE 802.11n (HT20)	20	20	1F
IEEE 802.11ac (VHT20)	22	22	22
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	23	23	
IEEE 802.11ac (VHT40)	20	20	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	26		

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**3.5 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	ACER	MS2367	32807810766

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	1m

3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	25°C	53%	DC 5V
Radiated Emissions-9K-30MHz	25°C	60%	DC 5V
Radiated Emissions-30 MHz to 1GHz	24°C	68%	DC 5V
Radiated Emissions-Above 1000 MHz	24°C	68%	DC 5V
Spectrum Bandwidth	25.3°C	44.8%	DC 5V
Maximum Output Power	25.3°C	44.8%	DC 5V
Power Spectral Density	25.3°C	44.8%	DC 5V
Frequency Stability	Normal, Extreme	44.8%	Normal, Extreme

3.7 DUTY CYCLE

All tests were performed under the condition of 100% Duty Cycle

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

4.AC POWER LINE CONDUCTED EMISSIONS TEST

4.1LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

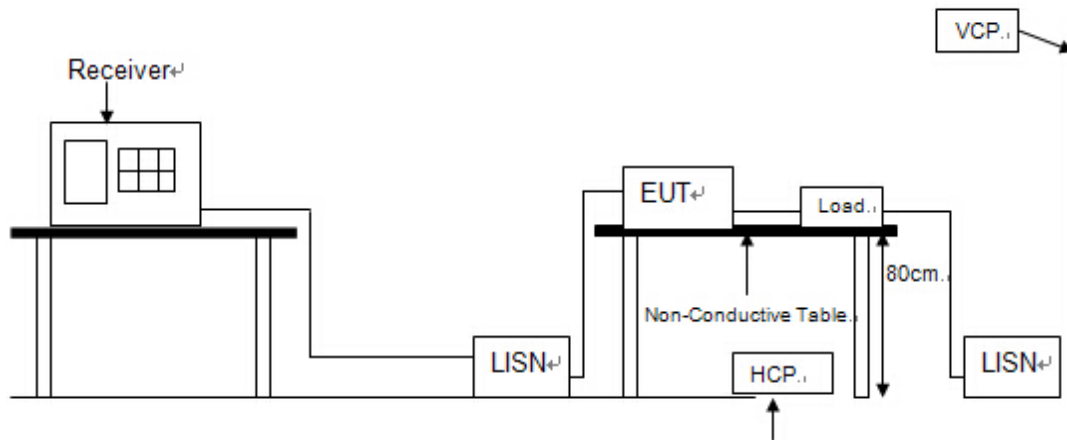
4.2 TEST PROCEDURE

- a. 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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.

4.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Pulse Limiter	MTS-systemtechnik	MTS-IMP-136	261115-010-0024	12/11/2021
2	EMI Test Receiver	R&S	ESCI	101308	12/12/2021
3	LISN	AFJ	LS16	16011103219	06/09/2022
4	LISN	Schwarzbeck	NSLK 8127	8127-432	12/11/2021
5	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

4.4 TEST SETUP



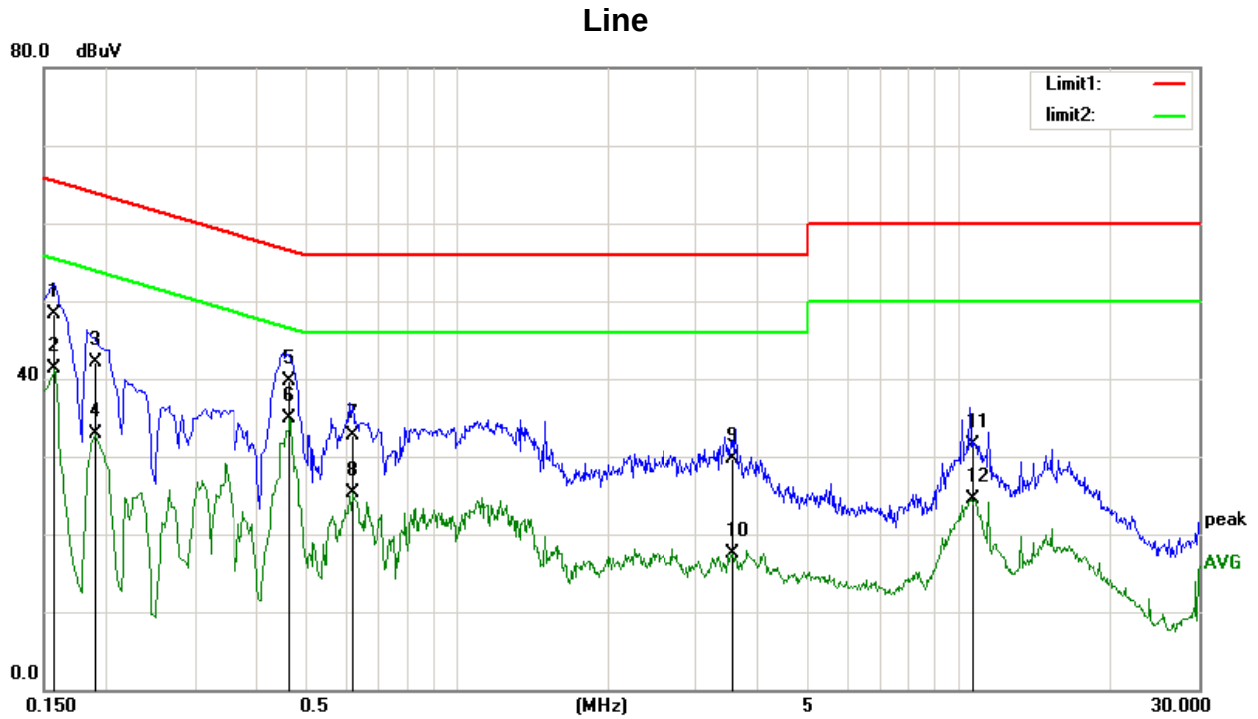
4.5 EUT OPERATION CONDITIONS

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.

The EUT was programmed to be in continuously transmitting/TX mode.

4.6 TEST RESULTS

Test Mode: TX N(HT40) Mode / CH155 (UNII-3)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1580	36.74	11.47	48.21	65.56	-17.35	QP
2	0.1580	29.79	11.47	41.26	55.56	-14.30	AVG
3	0.1900	30.90	11.25	42.15	64.03	-21.88	QP
4	0.1900	21.61	11.25	32.86	54.03	-21.17	AVG
5	0.4660	29.33	10.32	39.65	56.58	-16.93	QP
6	0.4660	24.57	10.32	34.89	46.58	-11.69	AVG
7	0.6180	22.49	10.26	32.75	56.00	-23.25	QP
8	0.6180	15.14	10.26	25.40	46.00	-20.60	AVG
9	3.5539	19.45	10.23	29.68	56.00	-26.32	QP
10	3.5539	7.22	10.23	17.45	46.00	-28.55	AVG
11	10.5819	21.29	10.20	31.49	60.00	-28.51	QP
12	10.5819	14.26	10.20	24.46	50.00	-25.54	AVG

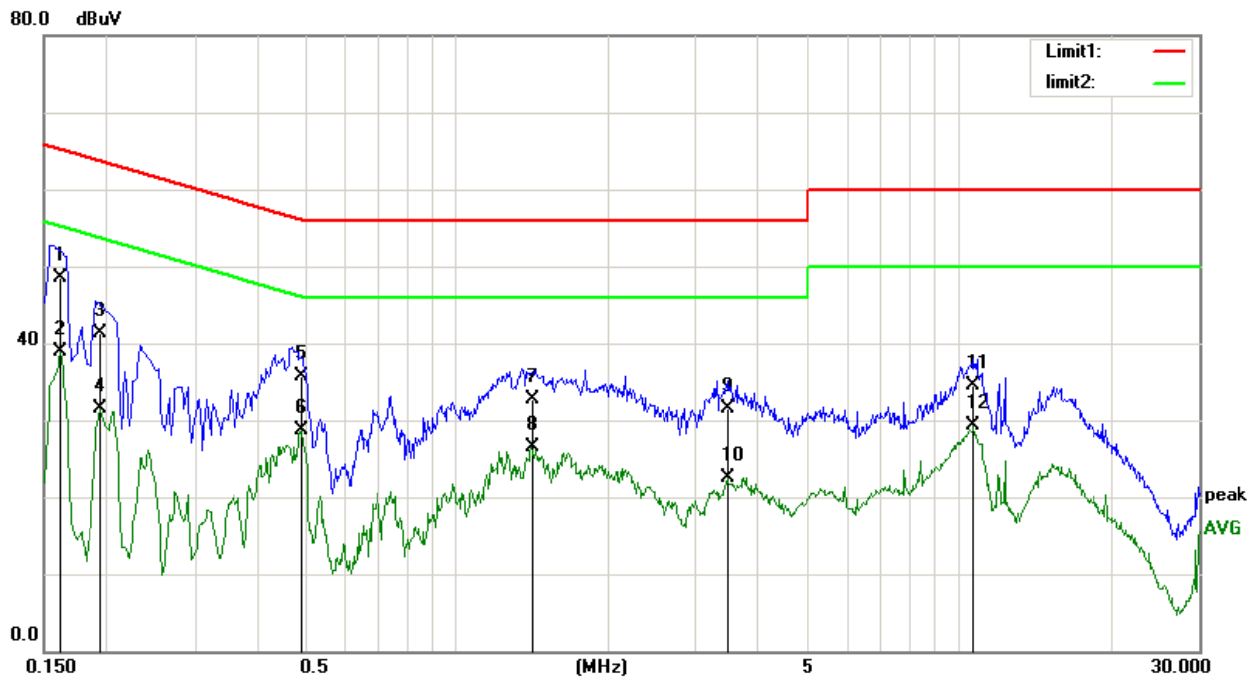
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N(HT40) Mode / CH155 (UNII-3)

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1620	37.14	11.45	48.59	65.36	-16.77	QP
2	0.1620	27.44	11.45	38.89	55.36	-16.47	AVG
3	0.1940	30.12	11.23	41.35	63.86	-22.51	QP
4	0.1940	20.33	11.23	31.56	53.86	-22.30	AVG
5	0.4900	25.39	10.30	35.69	56.17	-20.48	QP
6	0.4900	18.31	10.30	28.61	46.17	-17.56	AVG
7	1.4060	22.53	10.21	32.74	56.00	-23.26	QP
8	1.4060	16.24	10.21	26.45	46.00	-19.55	AVG
9	3.4660	21.25	10.23	31.48	56.00	-24.52	QP
10	3.4660	12.18	10.23	22.41	46.00	-23.59	AVG
11	10.6859	24.29	10.20	34.49	60.00	-25.51	QP
12	10.6859	19.03	10.20	29.23	50.00	-20.77	AVG

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

5. RADIATED EMISSION TEST

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a)&RSS-Gen 8.10, then the 15.209(a)&RSS-Gen 8.9 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000MHz)

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 Note(2)	68.3
	10 Note(2)	105.3
	15.6 Note(2)	110.9
	27 Note(2)	122.3

Note:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field

strength: $E = \frac{1000000\sqrt{30P}}{3}$ μV/m, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

(3) Radiation larger than 26.5GHz is background, so the following data only measures the maximum 26.5GHz

(4) Duty Cycle compensation less than 98% has been compensated in the test software prior to the implementation of the test

5.2 TEST PROCEDURE

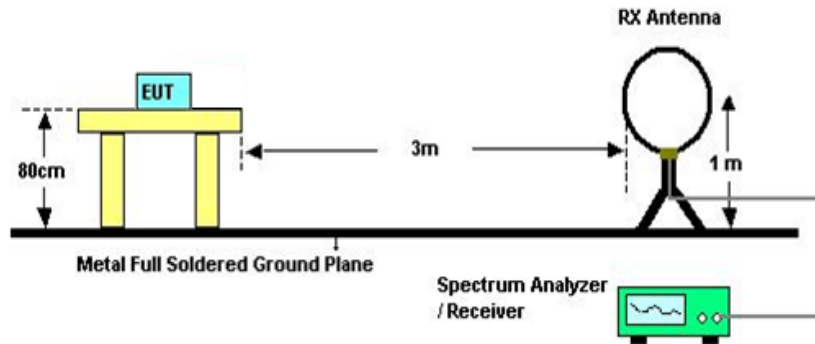
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
 - (3) Margin = Result - Limit

5.3 MEASUREMENT INSTRUMENTS LIST

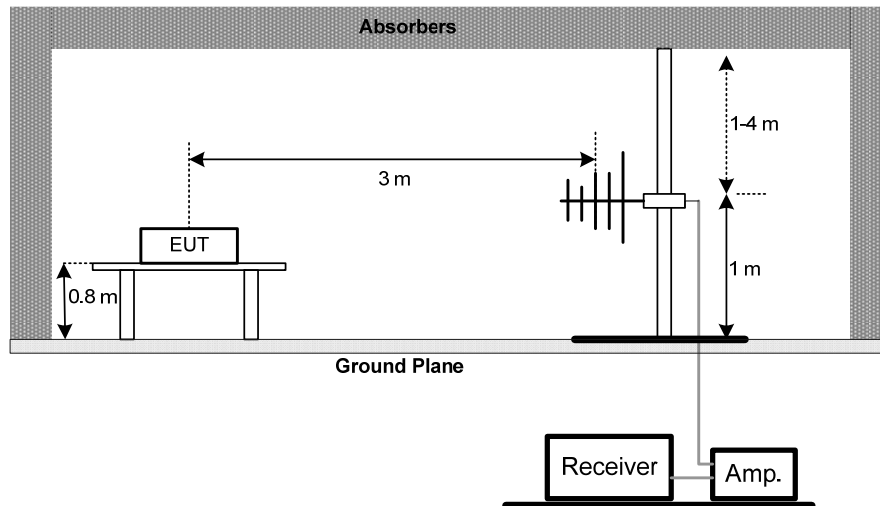
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	12/12/2021
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2021
3	Spectrum Analyzer	R&S	FSP	1164.4391.38	06/01/2022
4	Loop antenna	SCHWARZBECK	FMZB1519	1519-062	12/14/2021
5	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/06/2022
6	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	04/21/2022
7	DRG Horn Antenna	A.H. Systems	SAS-574	588	06/01/2022
8	Preamplifier Amplifier	HP	8447F	3113A05680	12/11/2021
9	Preamplifier Amplifier	Aeroflex	33711-392-77150-11	97	06/01/2022
10	PRE-AMPLIFIER	CY	EMC011830	980136	12/11/2021
11	RF Cable	R&S	Test Cable 4	4	12/11/2021
12	RF Cable	R&S	Test Cable 5	5	12/11/2021
13	RF Cable	R&S	Test Cable 9	9	04/21/2022
14	RF Cable	R&S	Test Cable 10	10	12/11/2021
15	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

5.4 TEST SETUP

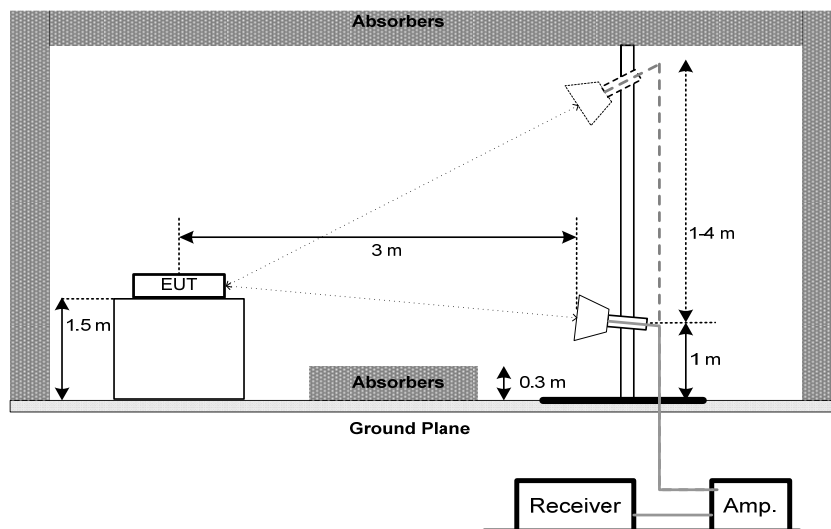
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ to 30MHZ

Test Mode:	TX N(HT40) Mode / CH155 (UNII-3)
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Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

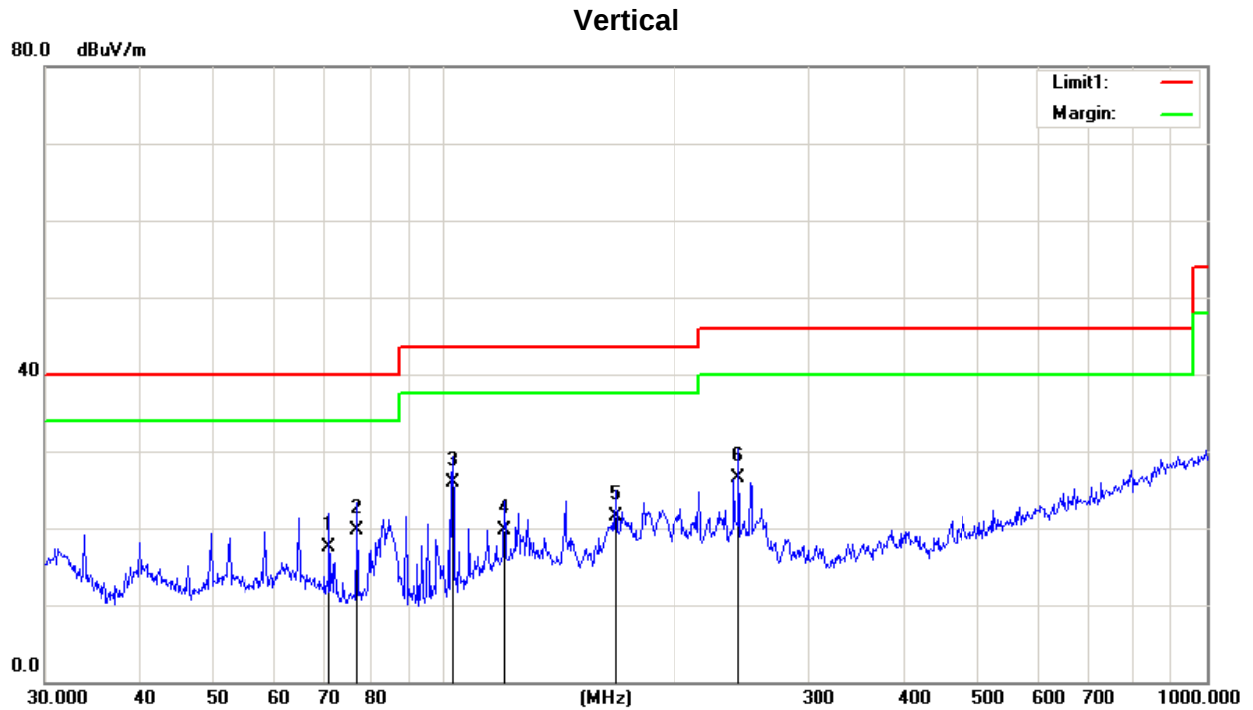
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor

5.7 TEST RESULTS - 30 MHz TO 1000 MHz

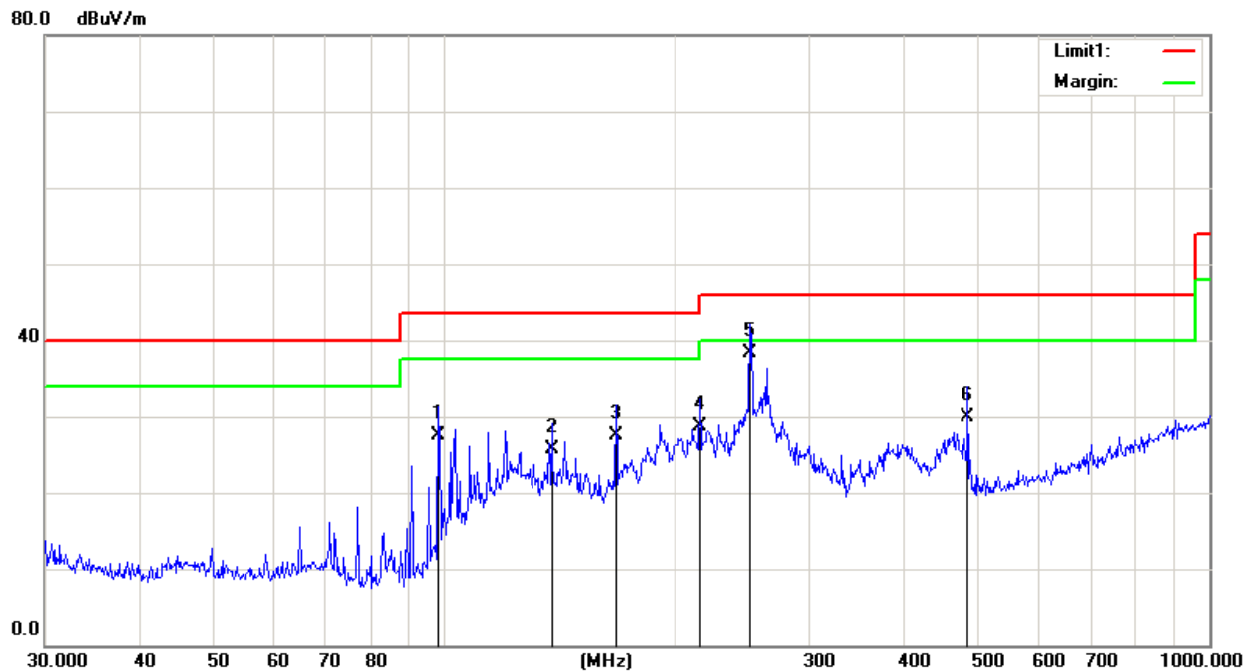
Test Mode: TX N(HT40) Mode / CH155 (UNII-3)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	70.8315	32.30	-14.81	17.49	40.00	-22.51	QP
2	77.0505	34.68	-15.04	19.64	40.00	-20.36	QP
3	102.7192	40.57	-14.63	25.94	43.50	-17.56	QP
4	119.8556	32.53	-12.89	19.64	43.50	-23.86	QP
5	167.8243	31.95	-10.48	21.47	43.50	-22.03	QP
6	243.3772	34.64	-8.15	26.49	46.00	-19.51	QP

Test Mode: TX N(HT40) Mode / CH155 (UNII-3)

Horizontal

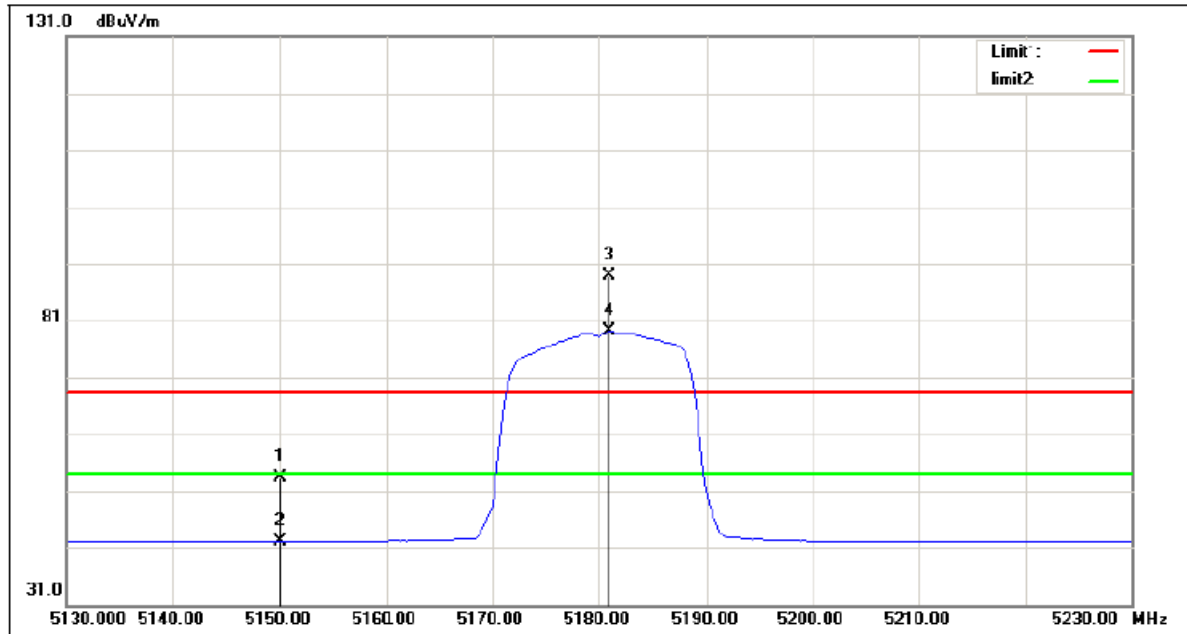


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	98.1419	44.07	-16.58	27.49	43.50	-16.01	QP
2	138.3873	38.93	-13.29	25.64	43.50	-17.86	QP
3	167.8242	38.34	-10.91	27.43	43.50	-16.07	QP
4	216.0240	38.07	-9.38	28.69	46.00	-17.31	QP
5	251.1803	44.31	-6.04	38.27	46.00	-7.73	QP
6	483.9094	35.86	-6.02	29.84	46.00	-16.16	QP

5.8TEST RESULTS - ABOVE1000 MHz(BAND EDGE)

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

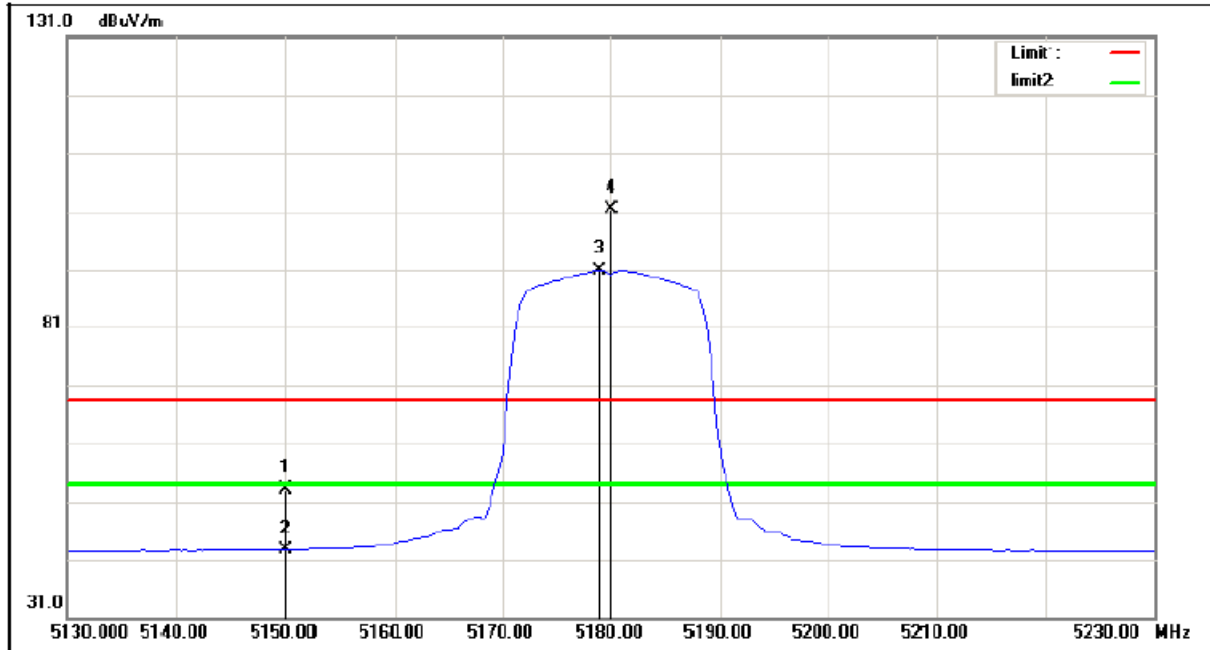
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.11	33.20	53.31	68.30	-14.99	peak
2	5150.000	9.00	33.20	42.20	54.00	-11.80	AVG
3	5181.000	55.67	33.27	88.94	/	/	peak
4	5181.000	45.74	33.27	79.01	/	/	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

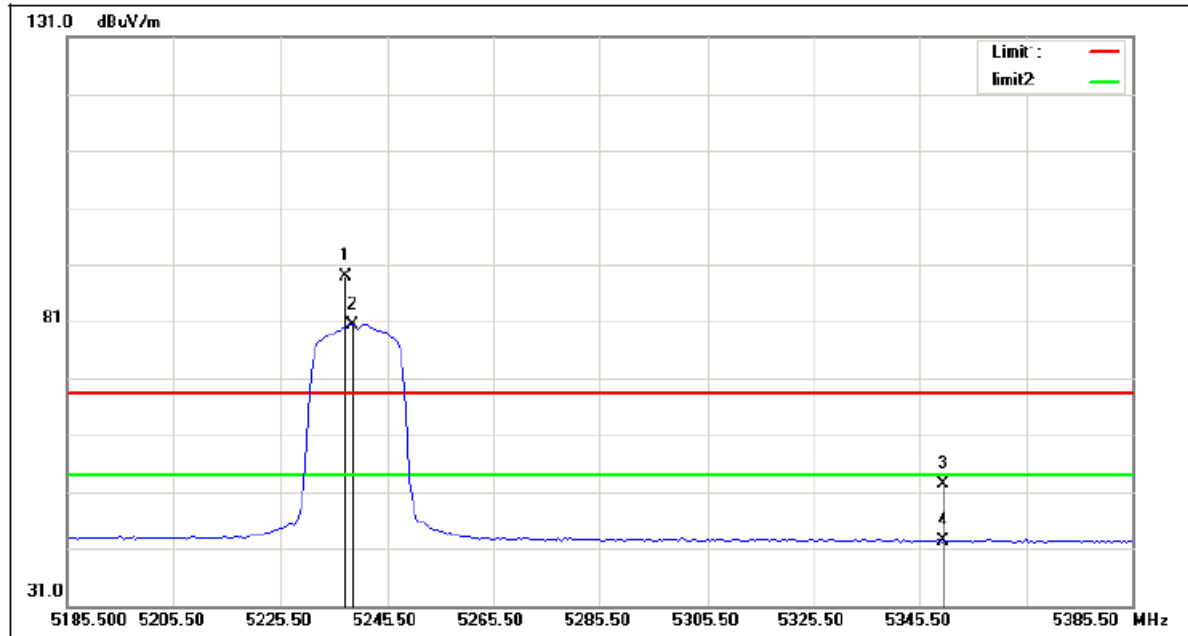
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	19.93	33.20	53.13	68.30	-15.17	peak
2	5150.000	9.48	33.20	42.68	54.00	-11.32	AVG
3	5179.000	57.62	33.27	90.89	/	/	AVG
4	5180.000	68.19	33.27	101.46	/	/	peak

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

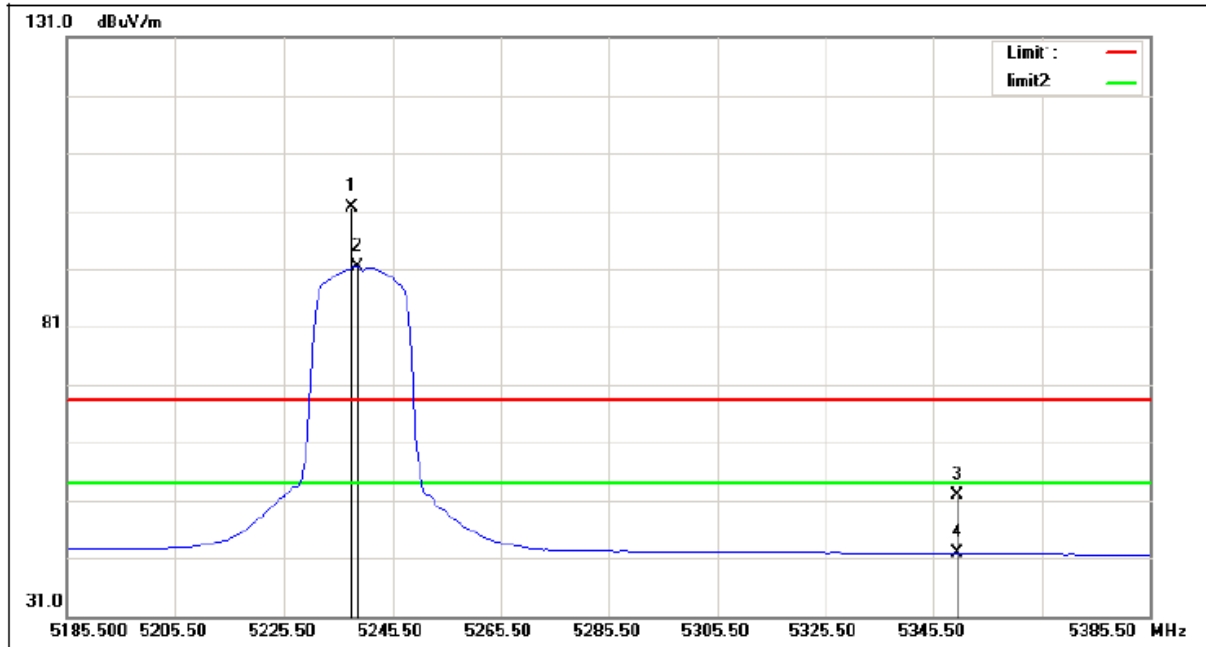
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5237.500	55.48	33.41	88.89	/	/	peak
2	5239.000	46.97	33.41	80.38	/	/	AVG
3	5350.000	18.62	33.68	52.30	68.30	-16.00	peak
4	5350.000	8.62	33.68	42.30	54.00	-11.70	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

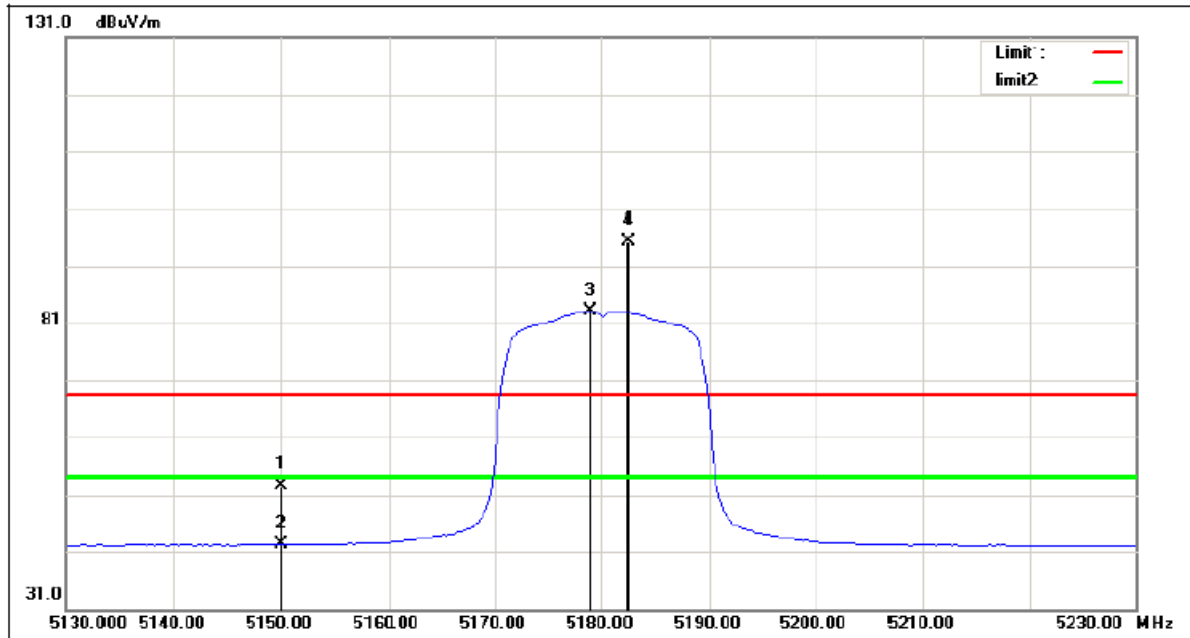
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5238.000	68.12	33.41	101.53	/	/	peak
2	5239.000	57.92	33.41	91.33	/	/	AVG
3	5350.000	18.31	33.68	51.99	68.30	-16.31	peak
4	5350.000	8.21	33.68	41.89	54.00	-12.11	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

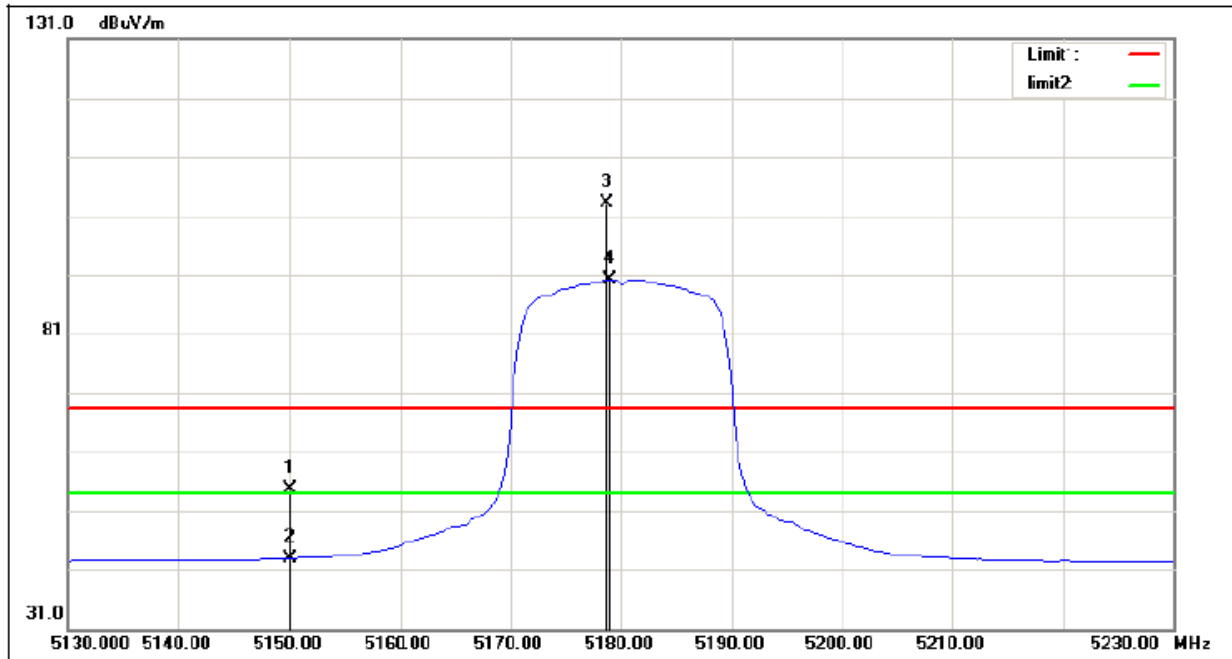
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	19.51	33.20	52.71	68.30	-15.59	peak
2	5150.000	9.10	33.20	42.30	54.00	-11.70	AVG
3	5179.000	49.93	33.27	83.20	/	/	AVG
4	5182.500	62.13	33.28	95.41	/	/	peak

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

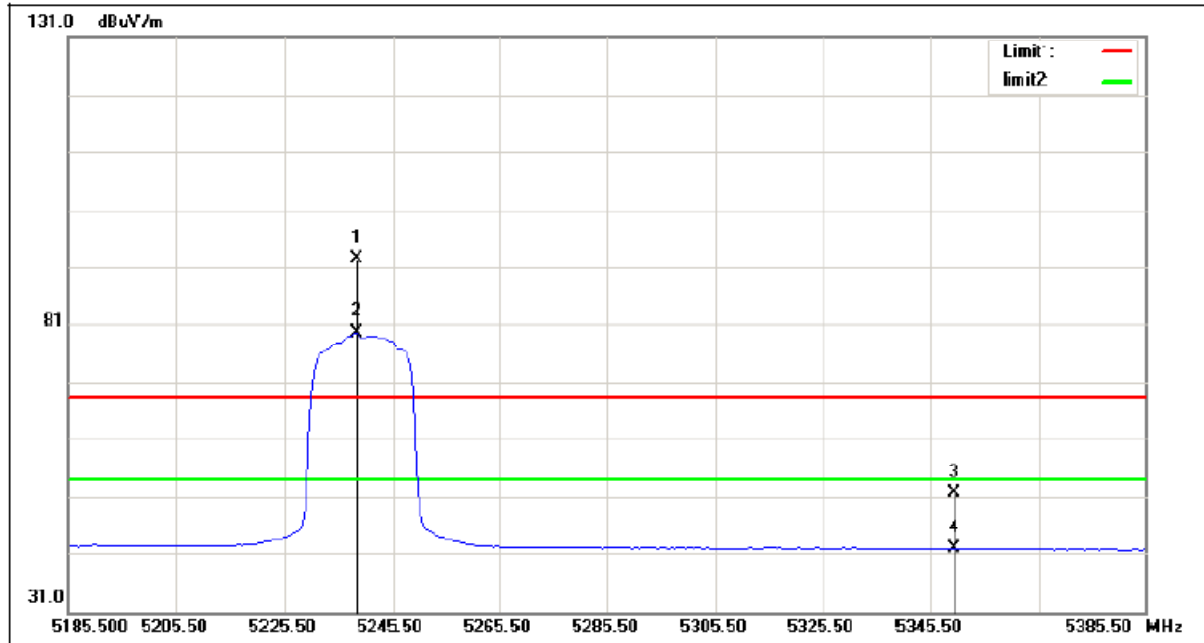
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	21.33	33.20	54.53	68.30	-13.77	peak
2	5150.000	9.71	33.20	42.91	54.00	-11.09	AVG
3	5178.750	69.98	33.27	103.25	/	/	peak
4	5179.000	56.96	33.27	90.23	/	/	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz

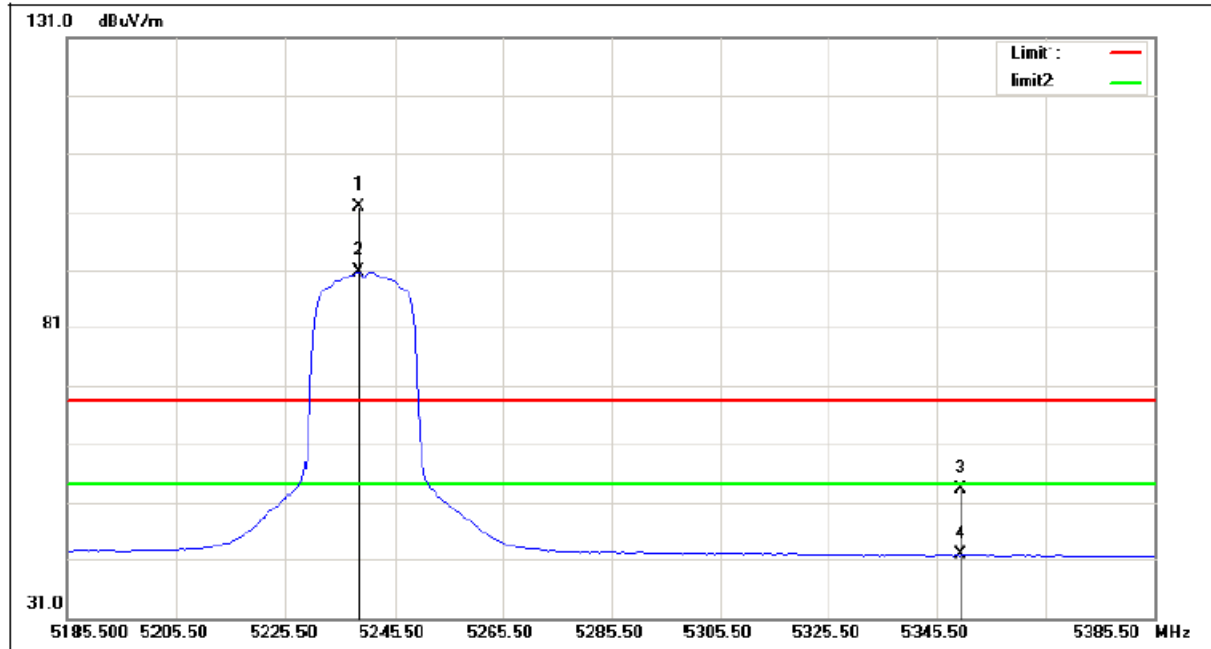
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5239.000	59.09	33.41	92.50	/	/	peak
2	5239.000	46.17	33.41	79.58	/	/	AVG
3	5350.000	17.95	33.68	51.63	68.30	-16.67	peak
4	5350.000	8.22	33.68	41.90	54.00	-12.10	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz

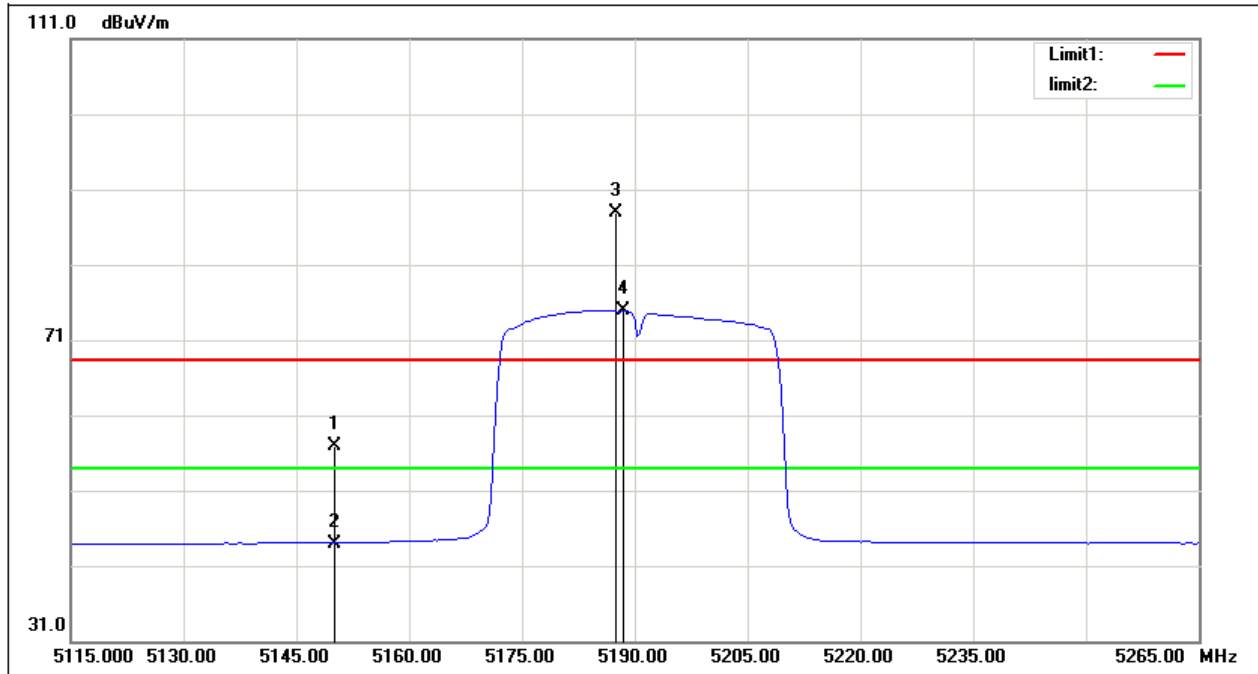
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5239.000	68.58	33.41	101.99	/	/	peak
2	5239.000	57.22	33.41	90.63	/	/	AVG
3	5350.000	19.49	33.68	53.17	68.30	-15.13	peak
4	5350.000	8.17	33.68	41.85	54.00	-12.15	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

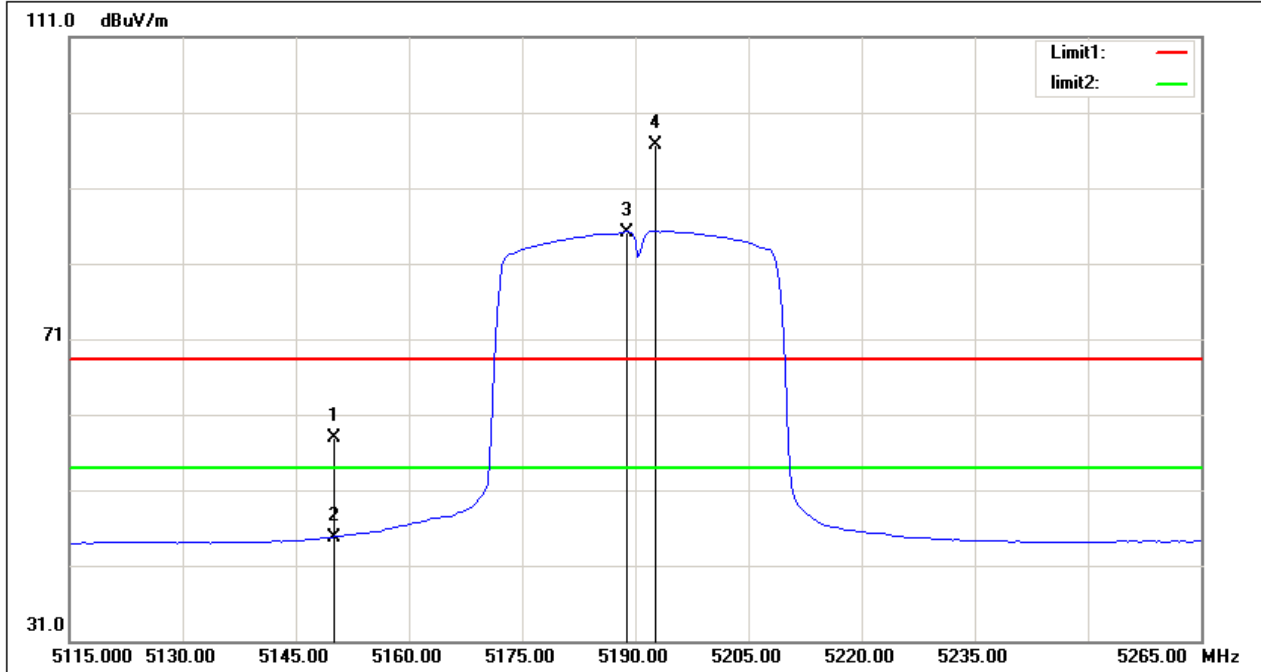
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	22.06	34.94	57.00	68.30	-11.30	peak
2	5150.000	9.04	34.94	43.98	54.00	-10.02	AVG
3	5187.500	52.95	35.05	88.00	/	/	peak
4	5188.500	39.81	35.05	74.86	/	/	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

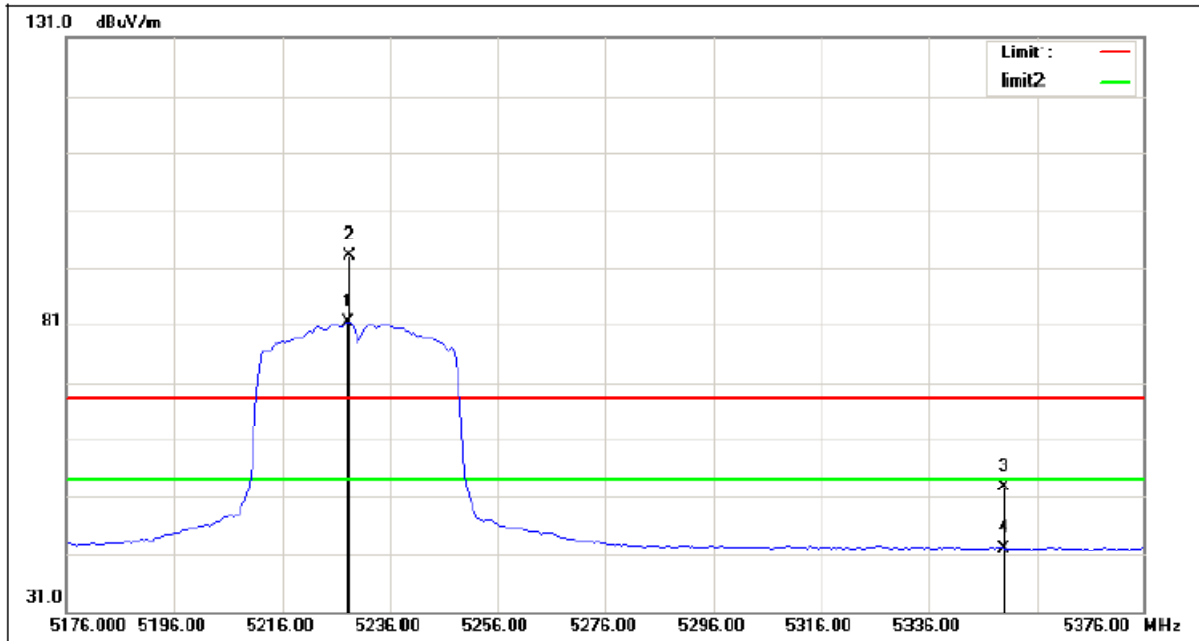
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	23.06	34.94	58.00	68.30	-10.30	peak
2	5150.000	9.81	34.94	44.75	54.00	-9.25	AVG
3	5188.875	50.15	35.05	85.20	/	/	AVG
4	5192.650	61.59	35.06	96.65	/	/	peak

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

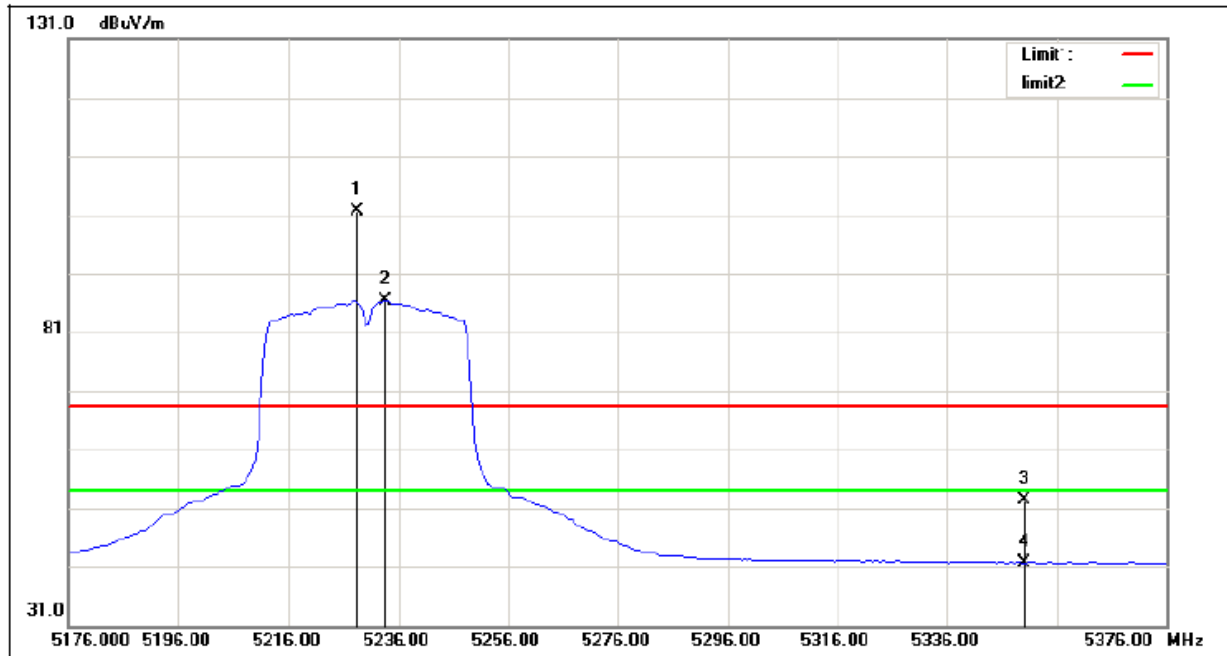
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5228.000	47.94	33.39	81.33	/	/	AVG
2	5228.500	59.66	33.39	93.05	/	/	peak
3	5350.000	18.90	33.68	52.58	68.30	-15.72	peak
4	5350.000	8.55	33.68	42.23	54.00	-11.77	AVG

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5230 MHz

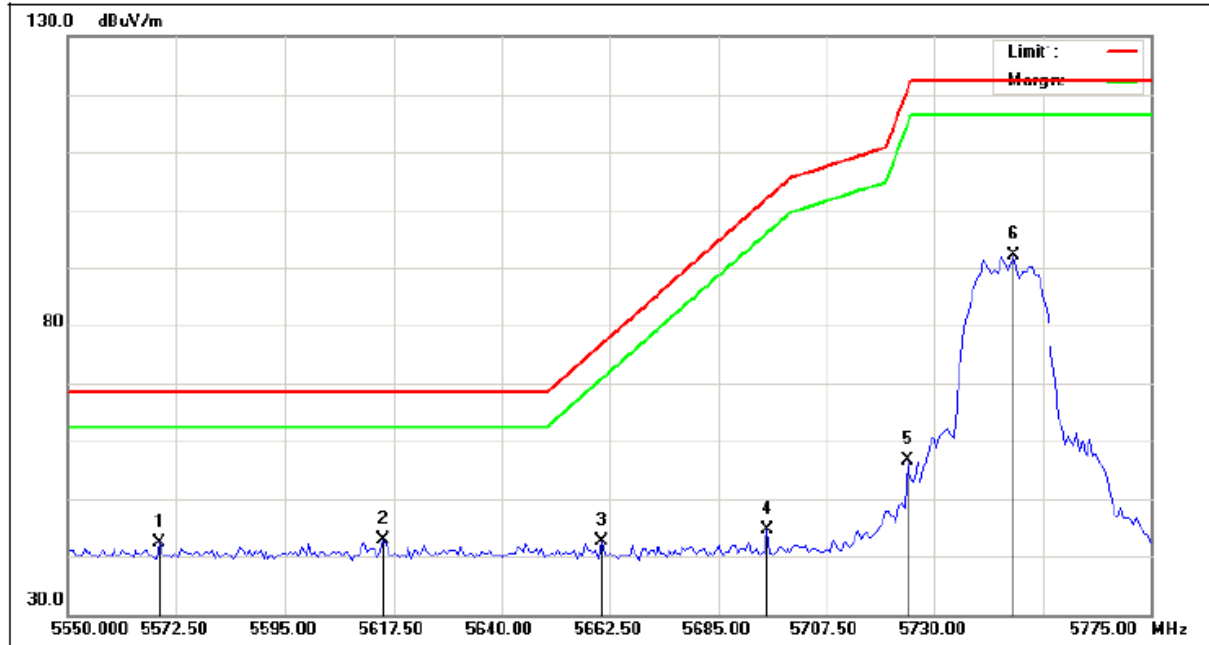
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5228.500	68.14	33.39	101.53	/	/	peak
2	5233.500	52.89	33.40	86.29	/	/	AVG
3	5350.000	18.74	33.68	52.42	68.30	-15.88	peak
4	5350.000	8.04	33.68	41.72	54.00	-12.28	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

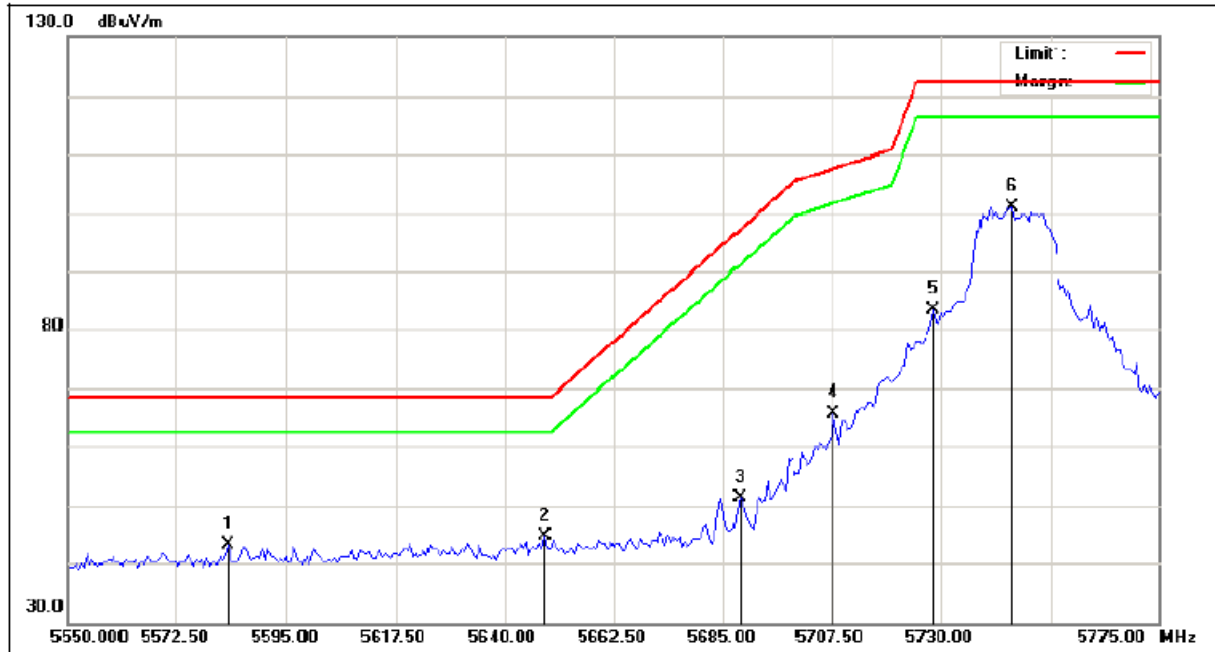
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5569.125	48.84	-6.37	42.47	68.30	-25.83	peak
2	5615.250	49.07	-6.31	42.76	68.30	-25.54	peak
3	5660.813	48.88	-6.25	42.63	76.30	-33.67	peak
4	5695.125	50.85	-6.21	44.64	101.69	-57.05	peak
5	5724.375	62.73	-6.17	56.56	120.87	-64.31	peak
6	5746.313	98.20	-6.15	92.05	122.30	-30.25	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

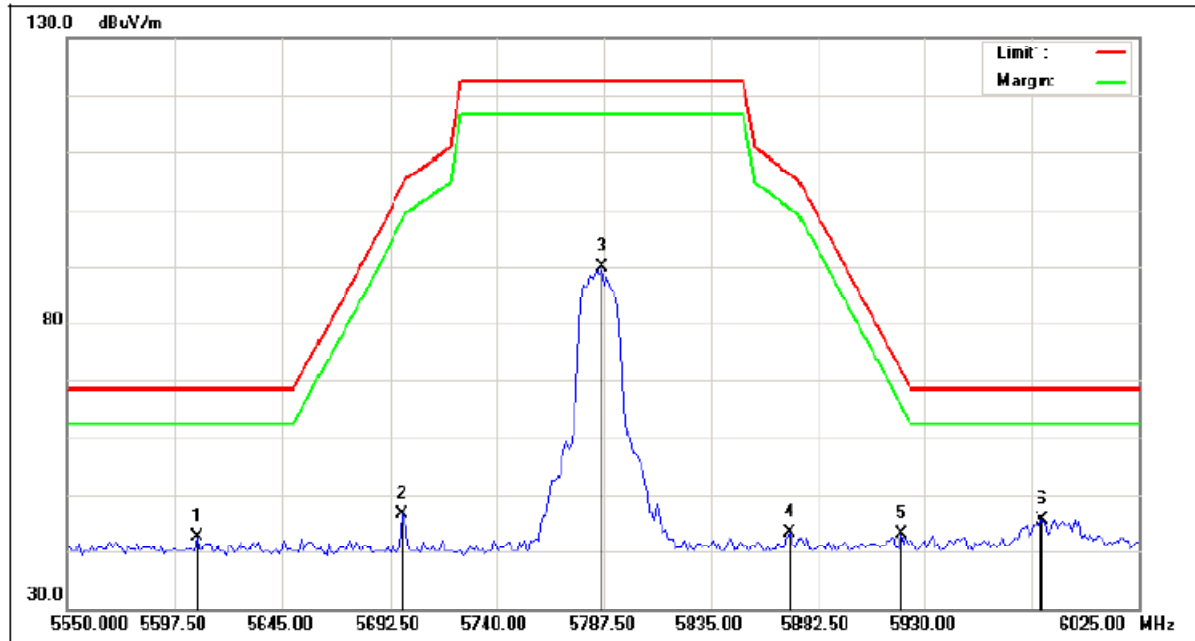
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5583.188	49.44	-6.35	43.09	68.30	-25.21	peak
2	5648.438	50.84	-6.26	44.58	68.30	-23.72	peak
3	5688.375	57.43	-6.21	51.22	96.70	-45.48	peak
4	5708.063	71.73	-6.19	65.54	107.56	-42.02	peak
5	5728.313	89.46	-6.16	83.30	122.30	-39.00	peak
6	5744.625	107.07	-6.15	100.92	122.30	-21.38	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

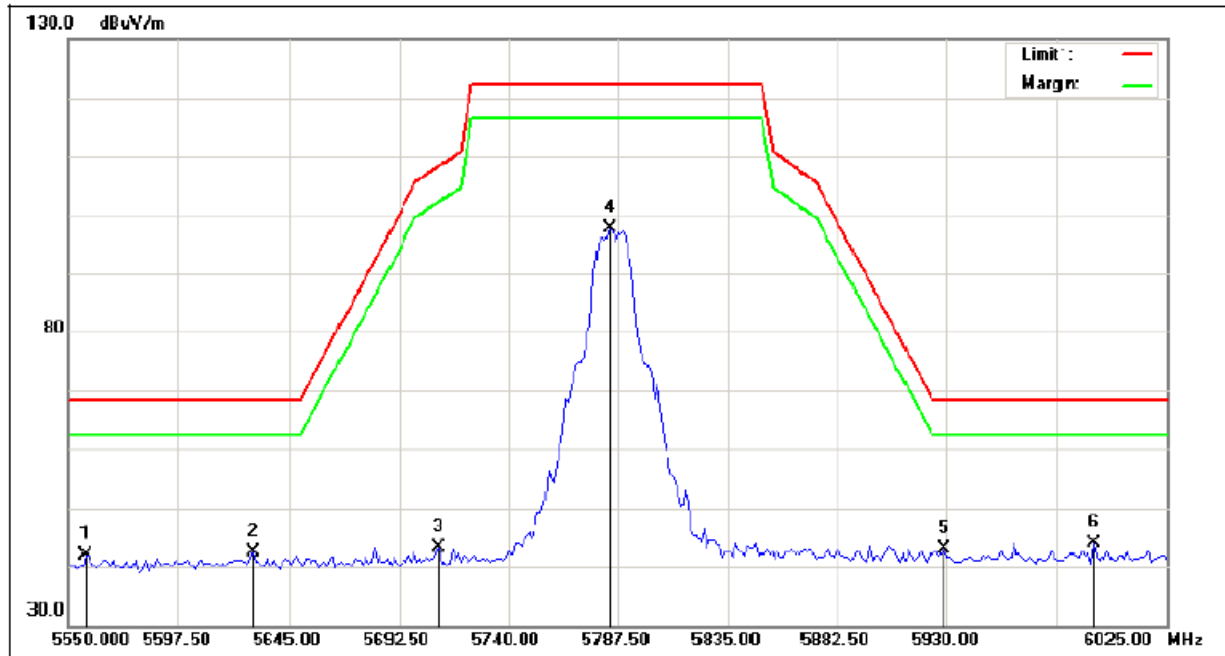
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5607.000	48.84	-6.33	42.51	68.30	-25.79	peak
2	5698.438	52.80	-6.20	46.60	104.14	-57.54	peak
3	5786.313	95.90	-6.10	89.80	122.30	-32.50	peak
4	5870.625	49.41	-6.00	43.41	106.52	-63.11	peak
5	5919.313	49.12	-5.93	43.19	72.51	-29.32	peak
6	5982.250	51.52	-5.86	45.66	68.30	-22.64	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

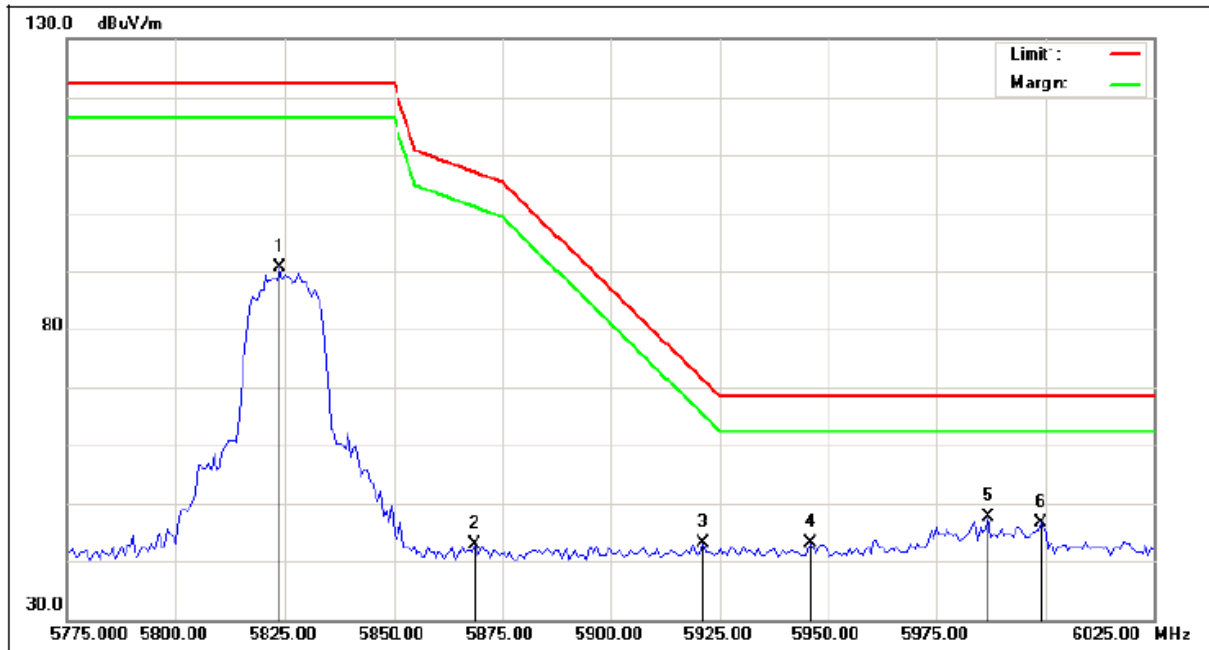
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5557.125	48.32	-6.39	41.93	68.30	-26.37	peak
2	5629.563	48.70	-6.28	42.42	68.30	-25.88	peak
3	5710.313	49.34	-6.19	43.15	108.19	-65.04	peak
4	5783.938	103.77	-6.10	97.67	122.30	-24.63	peak
5	5928.813	48.81	-5.91	42.90	68.30	-25.40	peak
6	5994.125	49.66	-5.84	43.82	68.30	-24.48	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

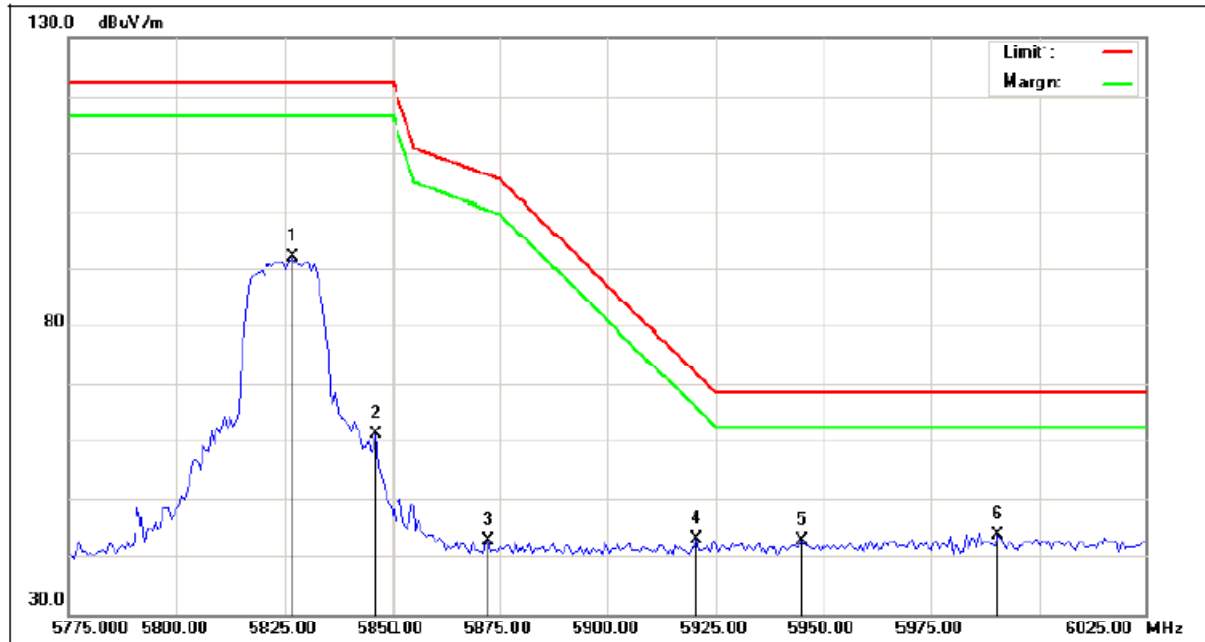
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.750	96.61	-6.05	90.56	122.30	-31.74	peak
2	5868.750	48.97	-6.00	42.97	107.05	-64.08	peak
3	5921.250	49.00	-5.93	43.07	71.07	-28.00	peak
4	5946.250	48.99	-5.90	43.09	68.30	-25.21	peak
5	5986.875	53.50	-5.85	47.65	68.30	-20.65	peak
6	5998.750	52.41	-5.83	46.58	68.30	-21.72	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

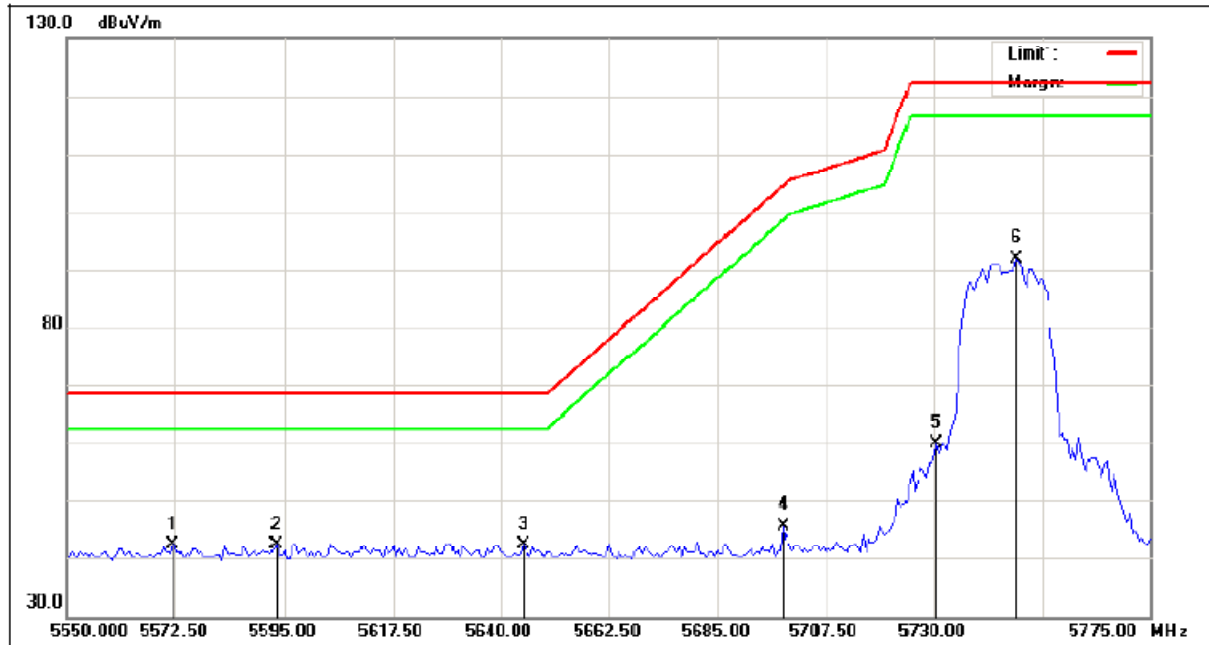
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.875	97.86	-6.05	91.81	122.30	-30.49	peak
2	5846.250	67.07	-6.03	61.04	122.30	-61.26	peak
3	5872.500	48.69	-6.00	42.69	106.00	-63.31	peak
4	5920.625	48.80	-5.93	42.87	71.54	-28.67	peak
5	5945.000	48.43	-5.90	42.53	68.30	-25.77	peak
6	5990.625	49.39	-5.84	43.55	68.30	-24.75	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

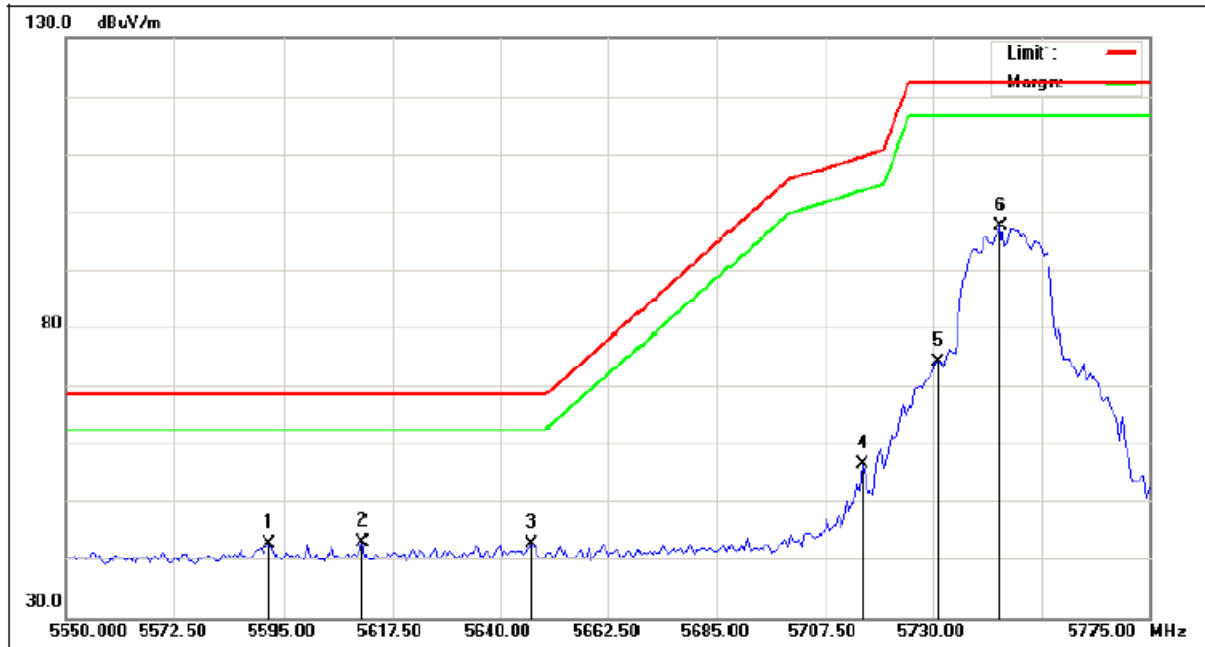
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5571.938	48.68	-6.37	42.31	68.30	-25.99	peak
2	5593.313	48.81	-6.33	42.48	68.30	-25.82	peak
3	5645.063	48.77	-6.27	42.50	68.30	-25.80	peak
4	5698.500	51.74	-6.20	45.54	104.19	-58.65	peak
5	5730.563	66.00	-6.16	59.84	122.30	-62.46	peak
6	5746.875	98.00	-6.15	91.85	122.30	-30.45	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

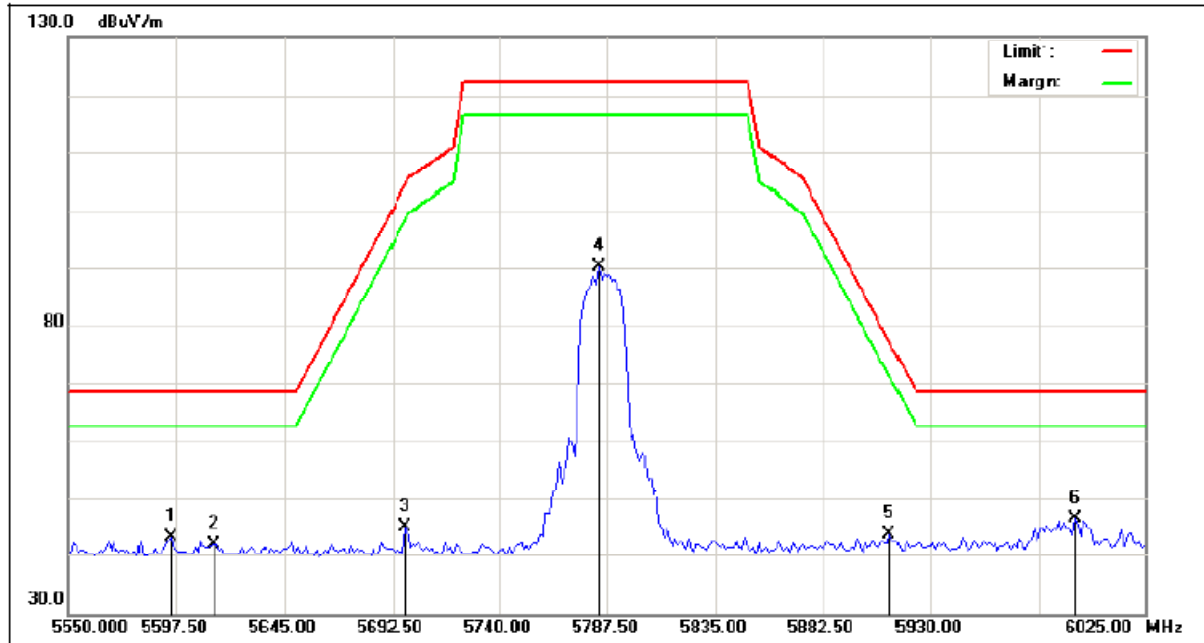
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5592.188	49.07	-6.34	42.73	68.30	-25.57	peak
2	5611.313	49.09	-6.32	42.77	68.30	-25.53	peak
3	5646.750	48.99	-6.27	42.72	68.30	-25.58	peak
4	5715.375	62.49	-6.18	56.31	109.60	-53.29	peak
5	5731.125	80.41	-6.16	74.25	122.30	-48.05	peak
6	5744.063	103.61	-6.15	97.46	122.30	-24.84	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz

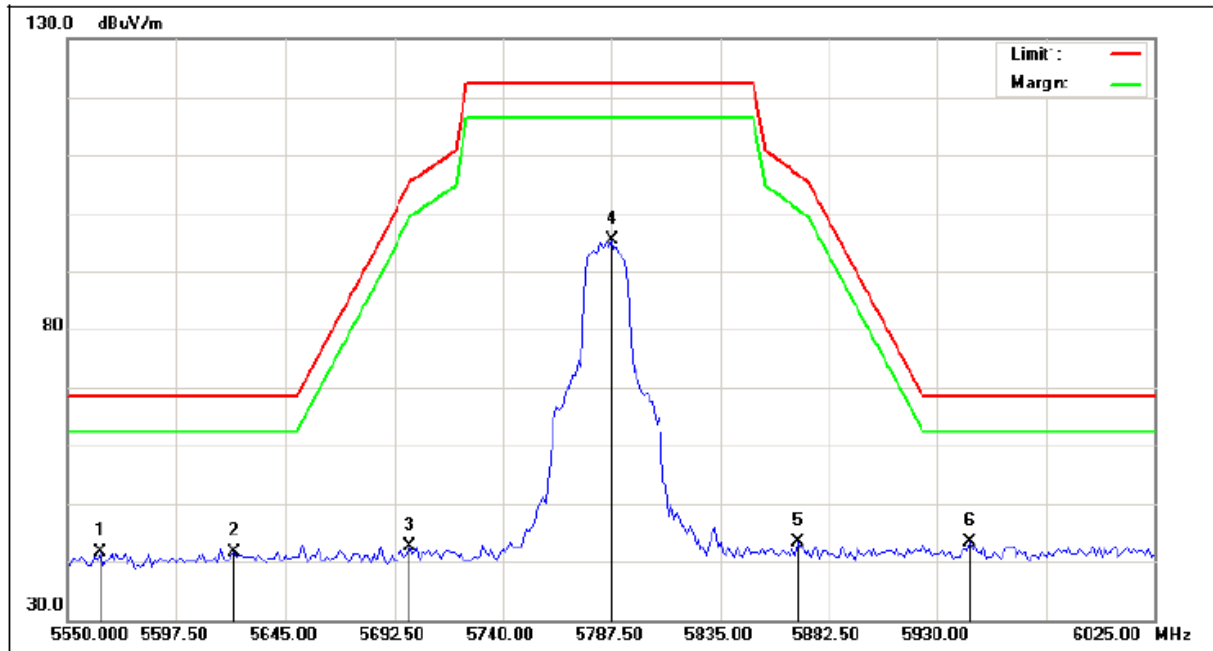
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5595.125	49.55	-6.34	43.21	68.30	-25.09	peak
2	5614.125	48.28	-6.31	41.97	68.30	-26.33	peak
3	5698.438	51.18	-6.20	44.98	104.14	-59.16	peak
4	5783.938	96.26	-6.10	90.16	122.30	-32.14	peak
5	5912.188	49.50	-5.94	43.56	77.78	-34.22	peak
6	5994.125	52.21	-5.84	46.37	68.30	-21.93	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz

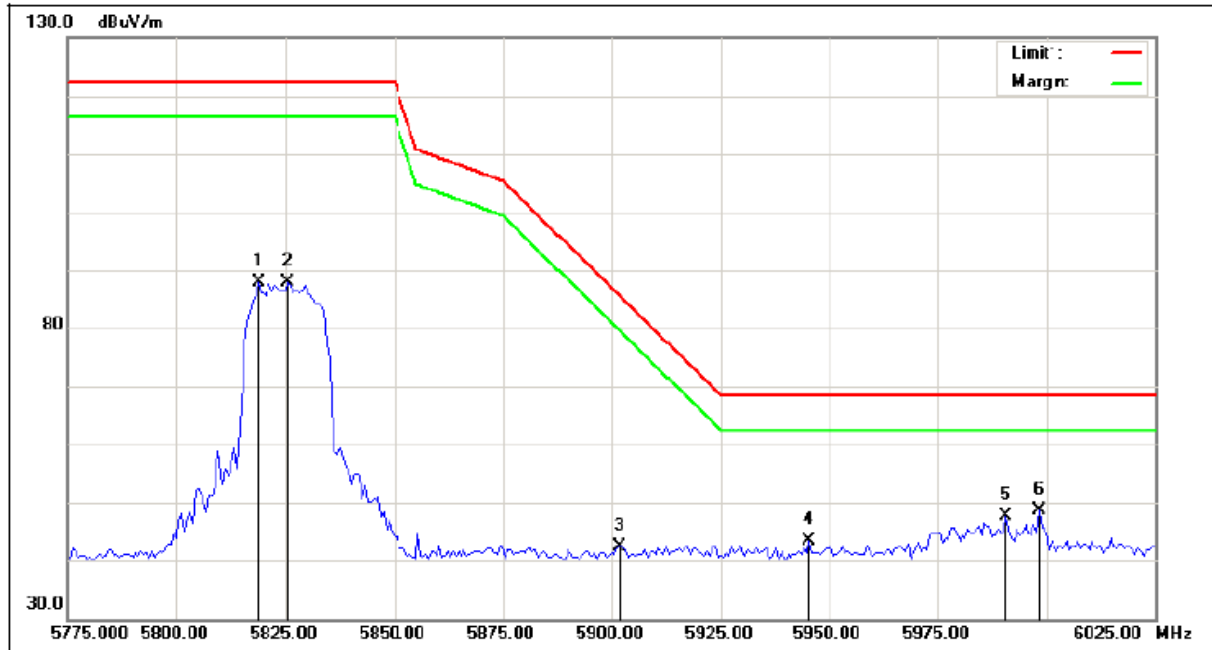
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5564.250	47.88	-6.37	41.51	68.30	-26.79	peak
2	5622.438	48.03	-6.31	41.72	68.30	-26.58	peak
3	5699.625	48.88	-6.20	42.68	105.02	-62.34	peak
4	5787.500	101.50	-6.09	95.41	122.30	-26.89	peak
5	5869.438	49.28	-6.00	43.28	106.86	-63.58	peak
6	5944.250	49.37	-5.90	43.47	68.30	-24.83	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

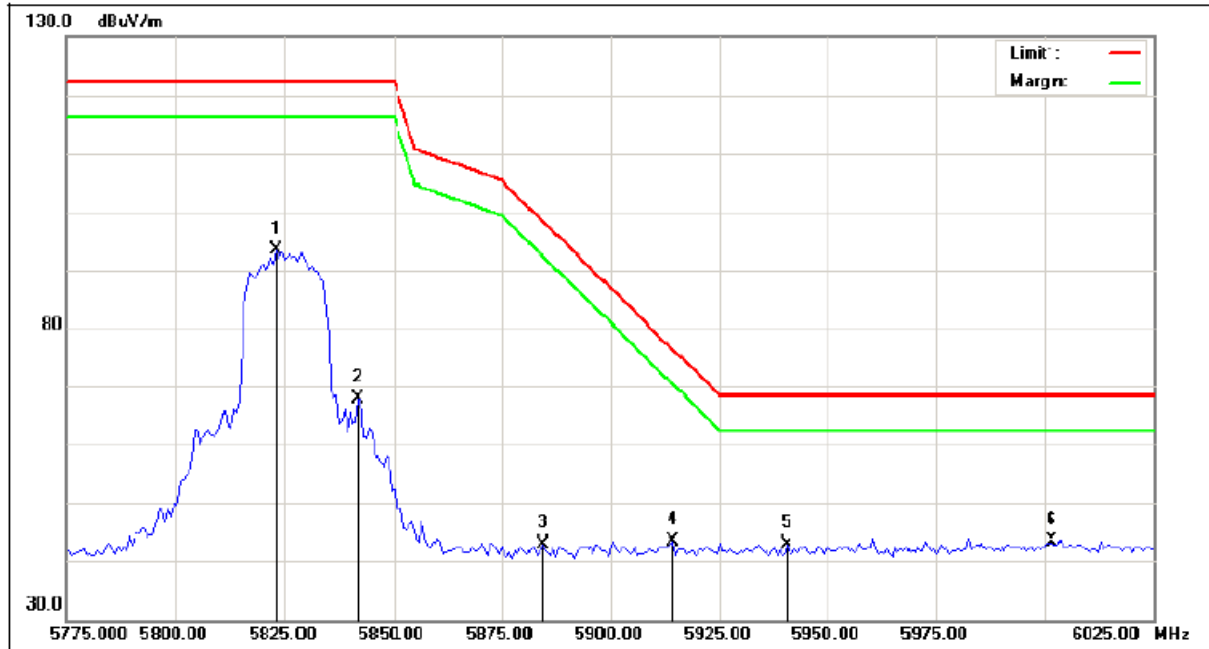
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5818.750	93.91	-6.06	87.85	122.30	-34.45	peak
2	5825.625	93.89	-6.05	87.84	122.30	-34.46	peak
3	5901.875	48.41	-5.95	42.46	85.41	-42.95	peak
4	5945.625	49.31	-5.90	43.41	68.30	-24.89	peak
5	5990.625	53.54	-5.84	47.70	68.30	-20.60	peak
6	5998.125	54.34	-5.83	48.51	68.30	-19.79	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

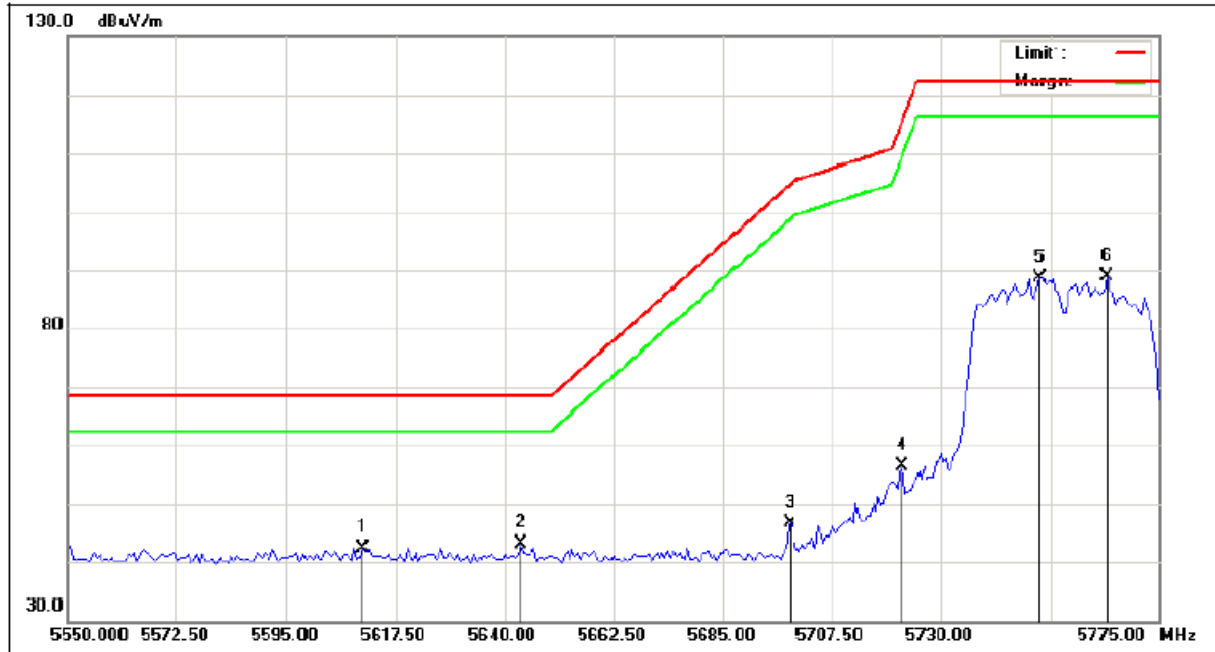
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.125	99.39	-6.05	93.34	122.30	-28.96	peak
2	5841.875	73.90	-6.03	67.87	122.30	-54.43	peak
3	5884.375	48.92	-5.97	42.95	98.36	-55.41	peak
4	5914.375	49.43	-5.93	43.50	76.16	-32.66	peak
5	5940.625	48.85	-5.90	42.95	68.30	-25.35	peak
6	6001.875	49.14	-5.82	43.32	68.30	-24.98	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

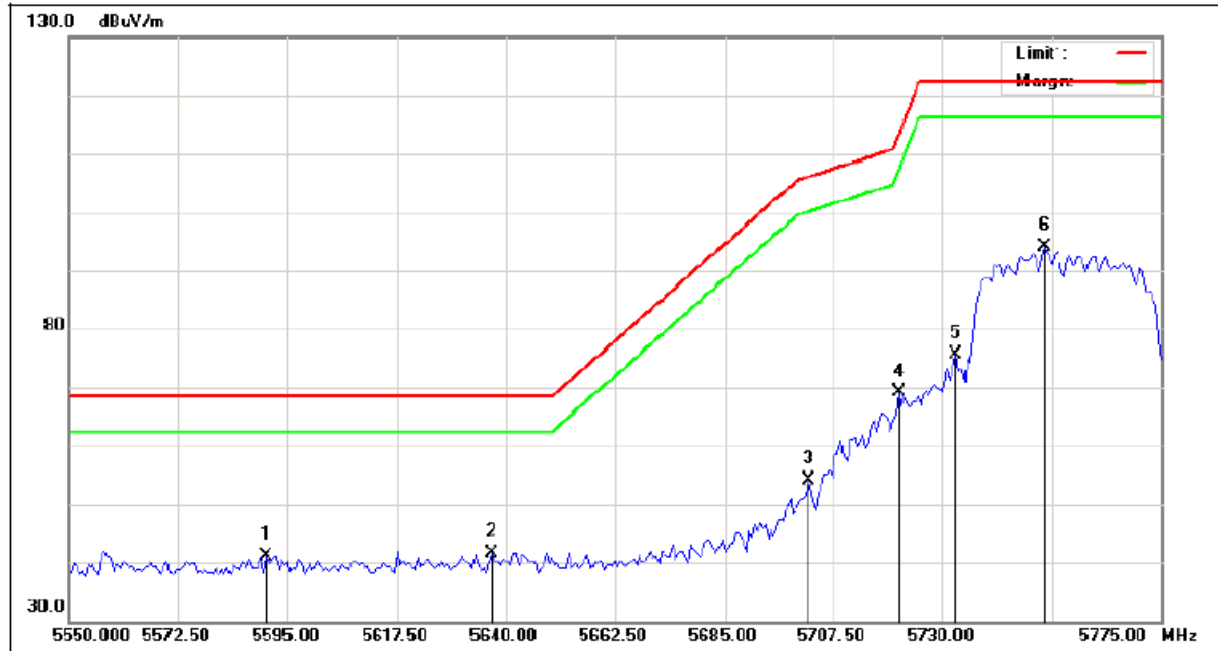
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.750	48.76	-6.32	42.44	68.30	-25.86	peak
2	5643.375	49.40	-6.26	43.14	68.30	-25.16	peak
3	5699.063	52.76	-6.20	46.56	104.61	-58.05	peak
4	5722.125	62.50	-6.18	56.32	115.74	-59.42	peak
5	5750.250	94.70	-6.14	88.56	122.30	-33.74	peak
6	5764.313	94.93	-6.12	88.81	122.30	-33.49	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

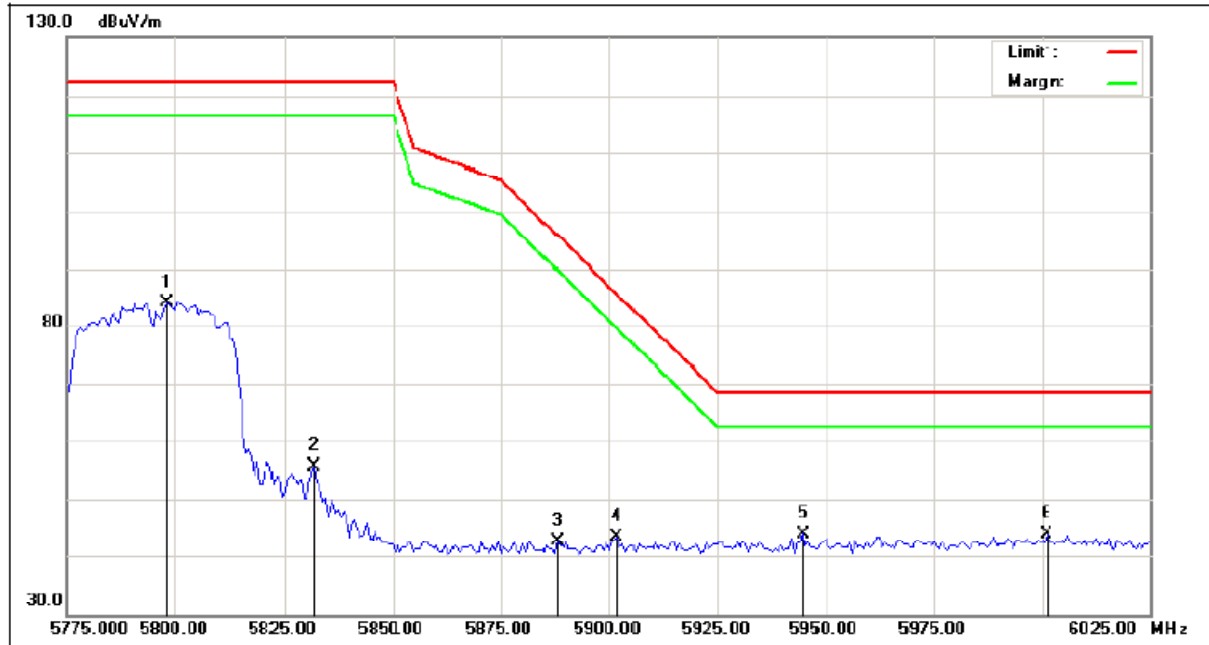
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5590.500	47.51	-6.34	41.17	68.30	-27.13	peak
2	5637.188	47.97	-6.28	41.69	68.30	-26.61	peak
3	5702.438	60.25	-6.20	54.05	105.98	-51.93	peak
4	5721.000	75.21	-6.18	69.03	113.18	-44.15	peak
5	5732.813	81.74	-6.16	75.58	122.30	-46.72	peak
6	5750.813	100.33	-6.14	94.19	122.30	-28.11	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

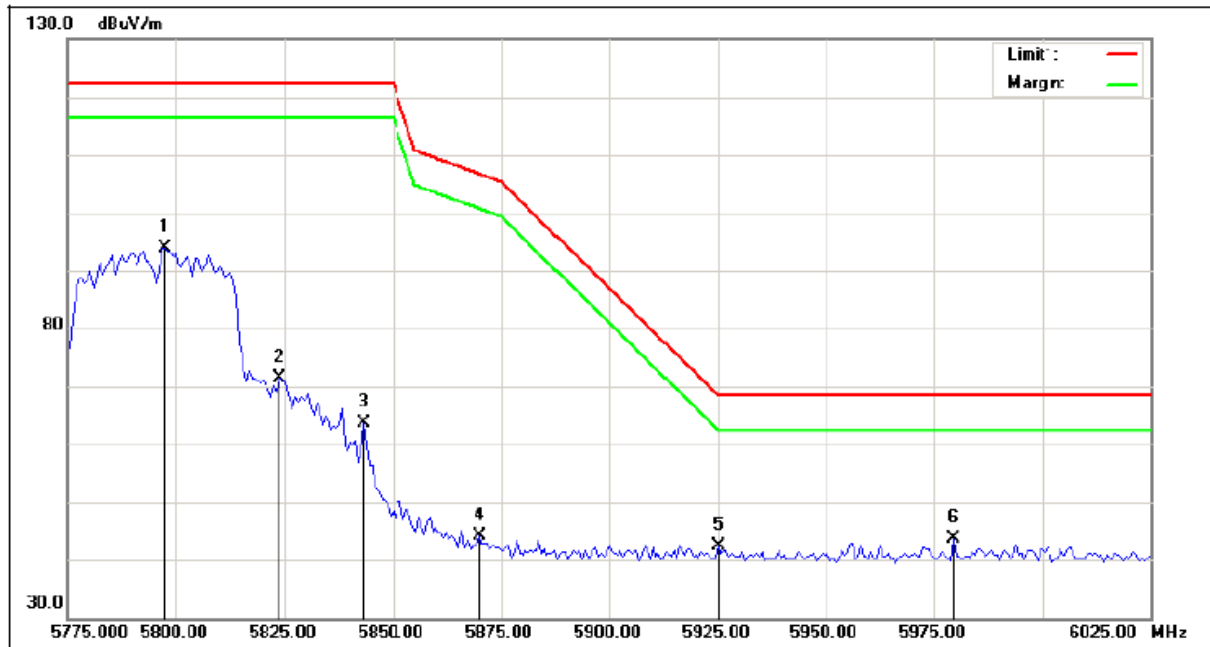
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5798.125	90.24	-6.08	84.16	122.30	-38.14	peak
2	5831.875	61.56	-6.05	55.51	122.30	-66.79	peak
3	5888.125	48.59	-5.96	42.63	95.59	-52.96	peak
4	5901.875	49.22	-5.95	43.27	85.41	-42.14	peak
5	5945.000	49.90	-5.90	44.00	68.30	-24.30	peak
6	6001.250	49.66	-5.82	43.84	68.30	-24.46	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

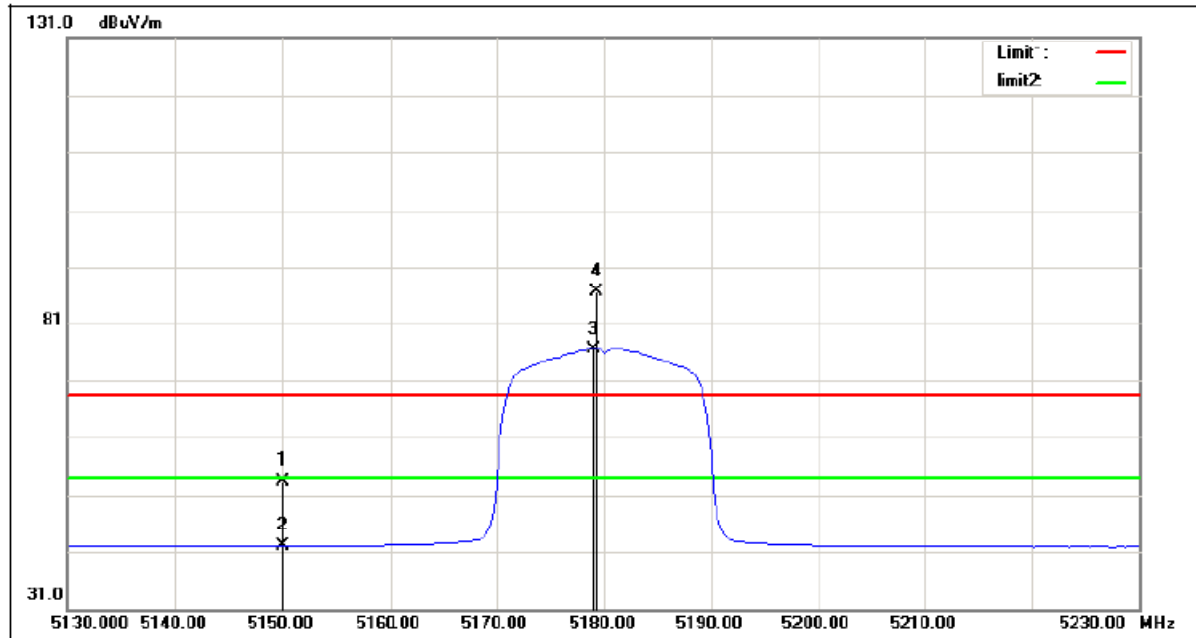
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.500	100.03	-6.09	93.94	122.30	-28.36	peak
2	5823.750	77.31	-6.05	71.26	122.30	-51.04	peak
3	5843.125	69.57	-6.02	63.55	122.30	-58.75	peak
4	5870.000	50.02	-6.00	44.02	106.70	-62.68	peak
5	5925.000	48.36	-5.92	42.44	68.30	-25.86	peak
6	5979.375	49.40	-5.85	43.55	68.30	-24.75	peak

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

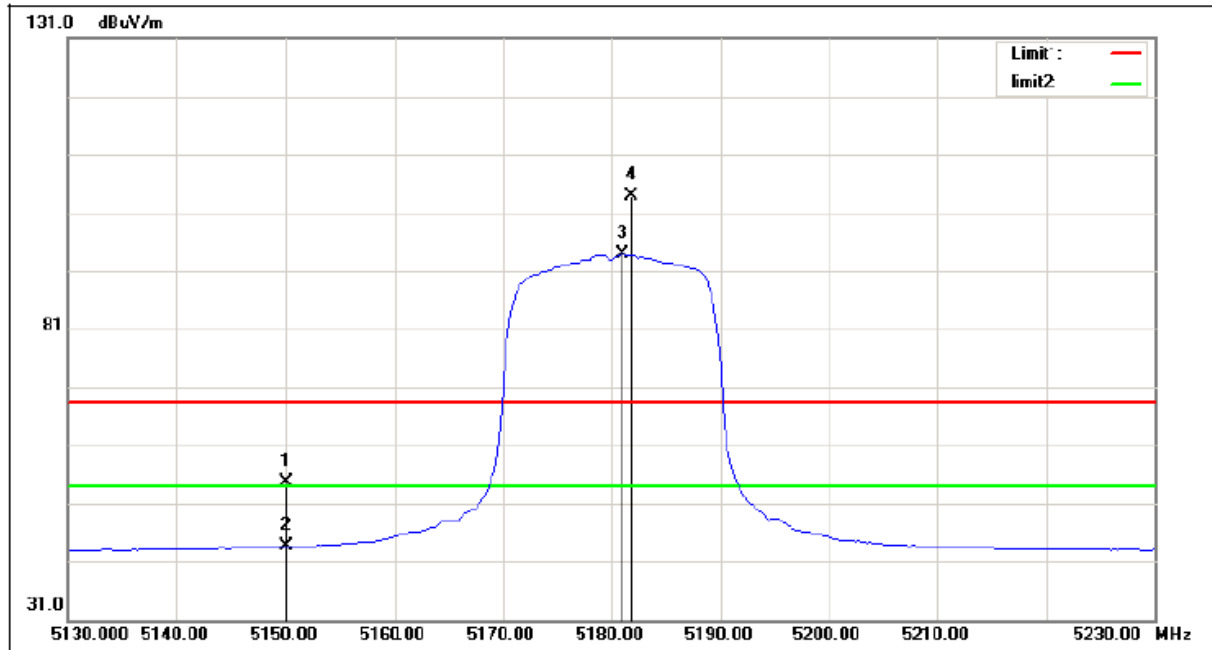
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.07	33.20	53.27	68.30	-15.03	peak
2	5150.000	8.95	33.20	42.15	54.00	-11.85	AVG
3	5179.000	43.16	33.27	76.43	/	/	AVG
4	5179.250	53.40	33.27	86.67	/	/	peak

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

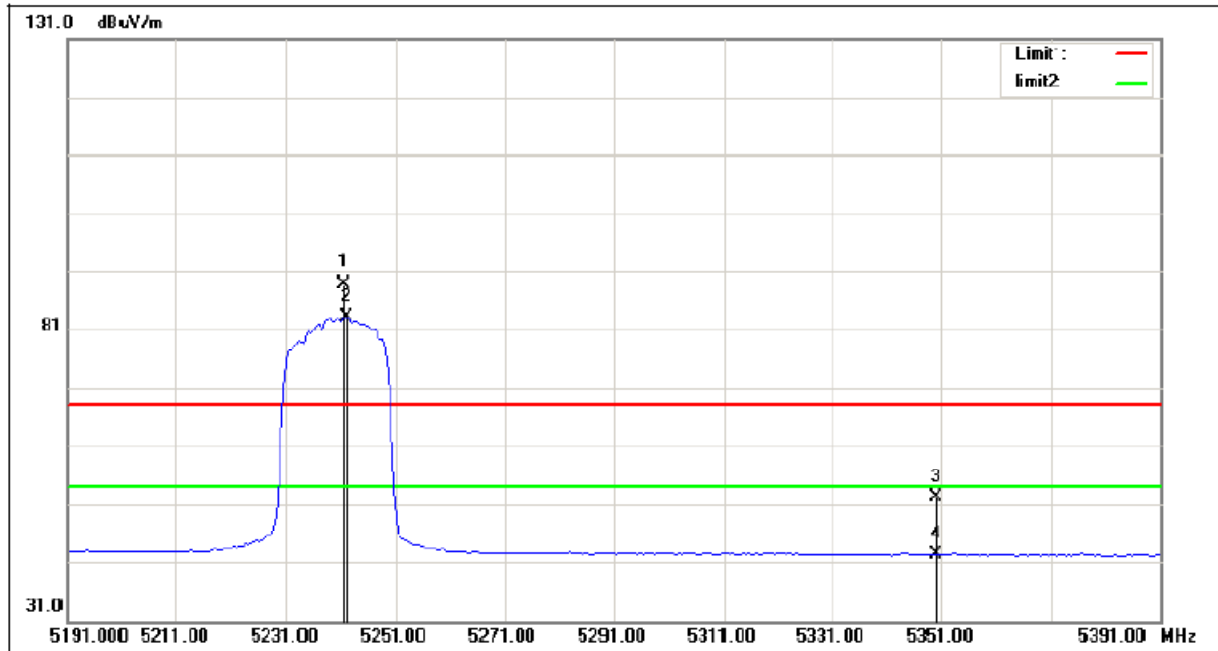
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	21.50	33.20	54.70	68.30	-13.60	peak
2	5150.000	10.36	33.20	43.56	54.00	-10.44	AVG
3	5181.000	60.59	33.27	93.86	/	/	AVG
4	5181.750	70.54	33.28	103.82	/	/	peak

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

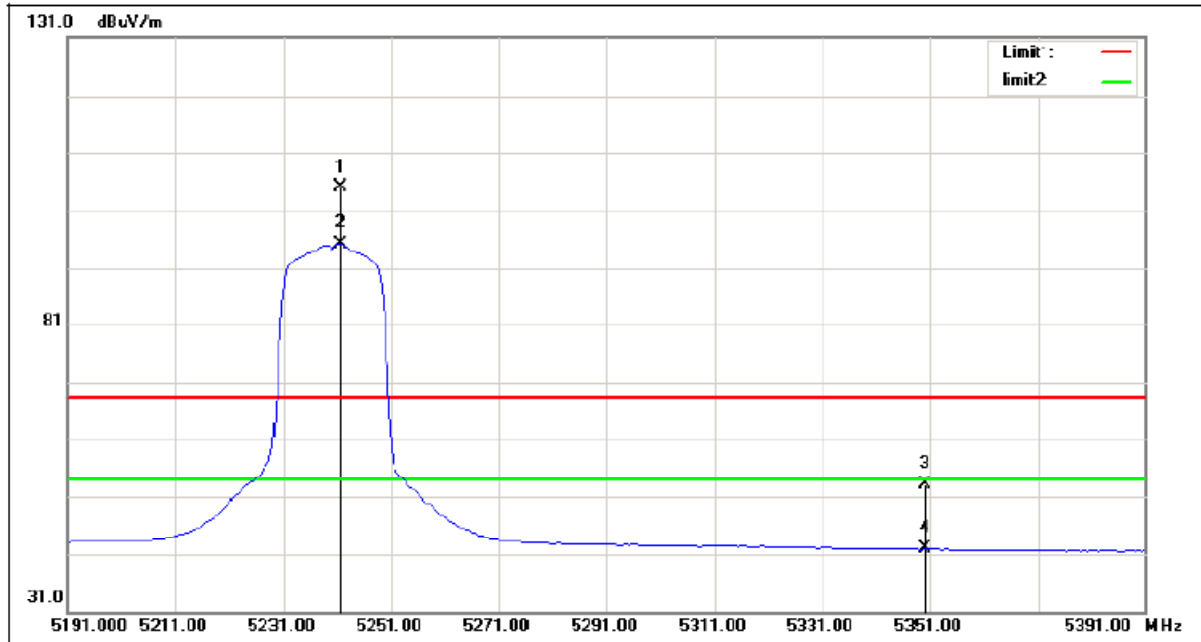
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5241.500	55.42	33.42	88.84	/	/	peak
2	5242.000	49.78	33.42	83.20	/	/	AVG
3	5350.000	18.54	33.68	52.22	68.30	-16.08	peak
4	5350.000	8.76	33.68	42.44	54.00	-11.56	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

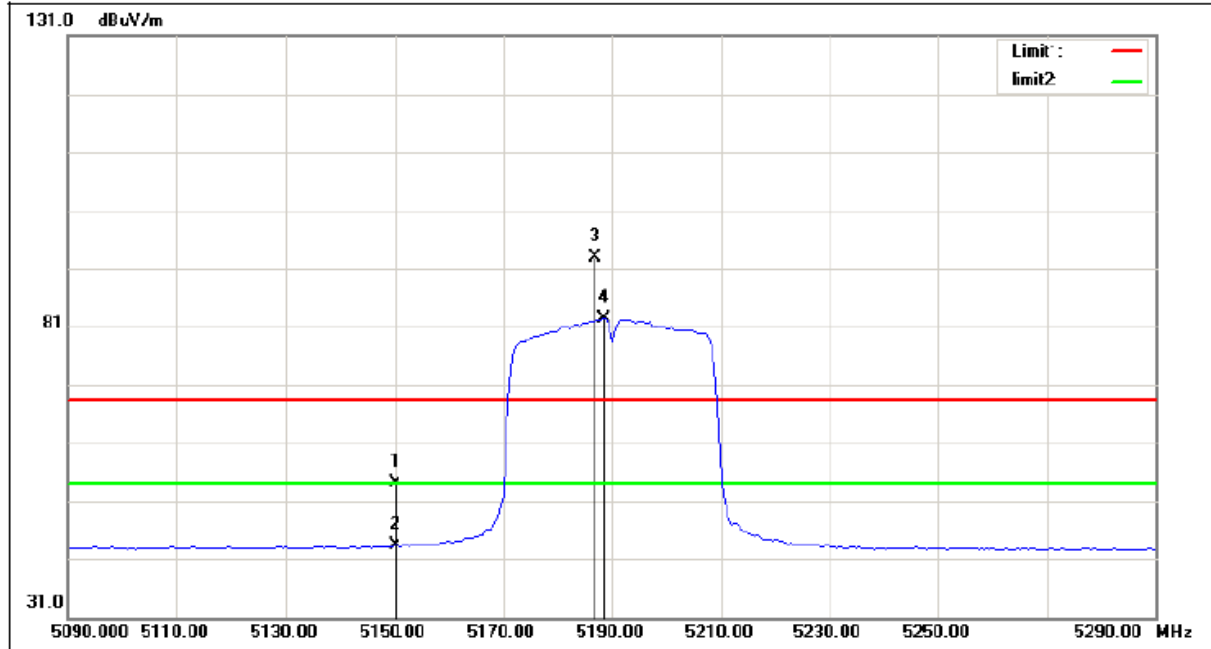
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5241.500	71.55	33.42	104.97	/	/	peak
2	5241.500	61.61	33.42	95.03	/	/	AVG
3	5350.000	19.41	33.68	53.09	68.30	-15.21	peak
4	5350.000	8.34	33.68	42.02	54.00	-11.98	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

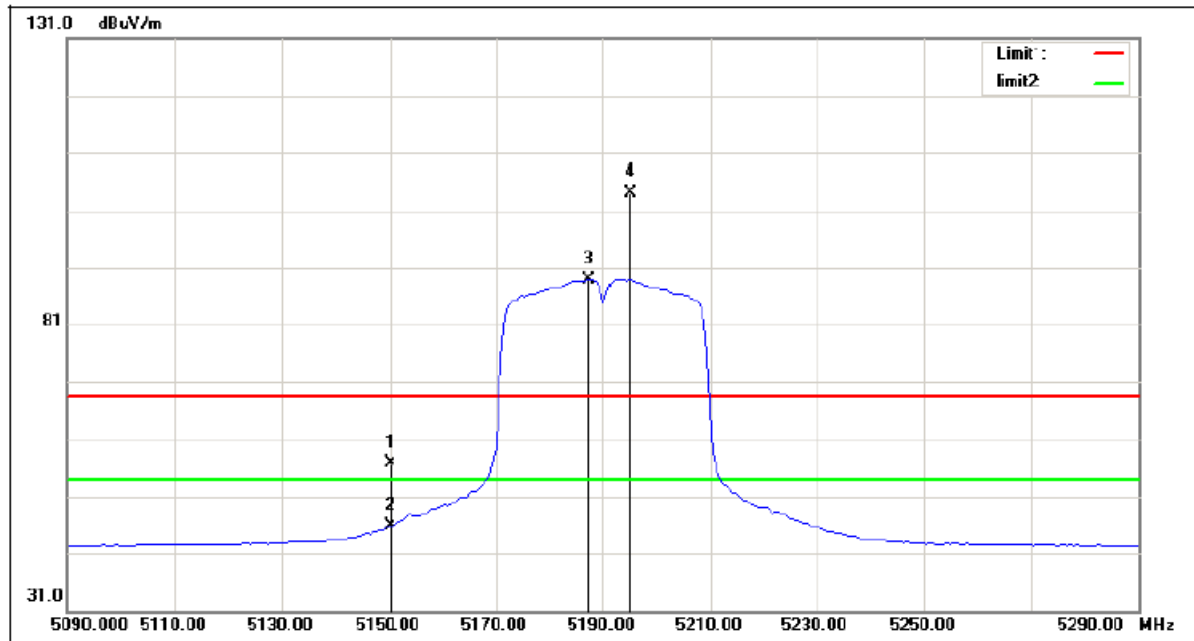
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.95	33.20	54.15	68.30	-14.15	peak
2	5150.000	10.07	33.20	43.27	54.00	-10.73	AVG
3	5187.000	59.47	33.29	92.76	/	/	peak
4	5188.500	48.98	33.29	82.27	/	/	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

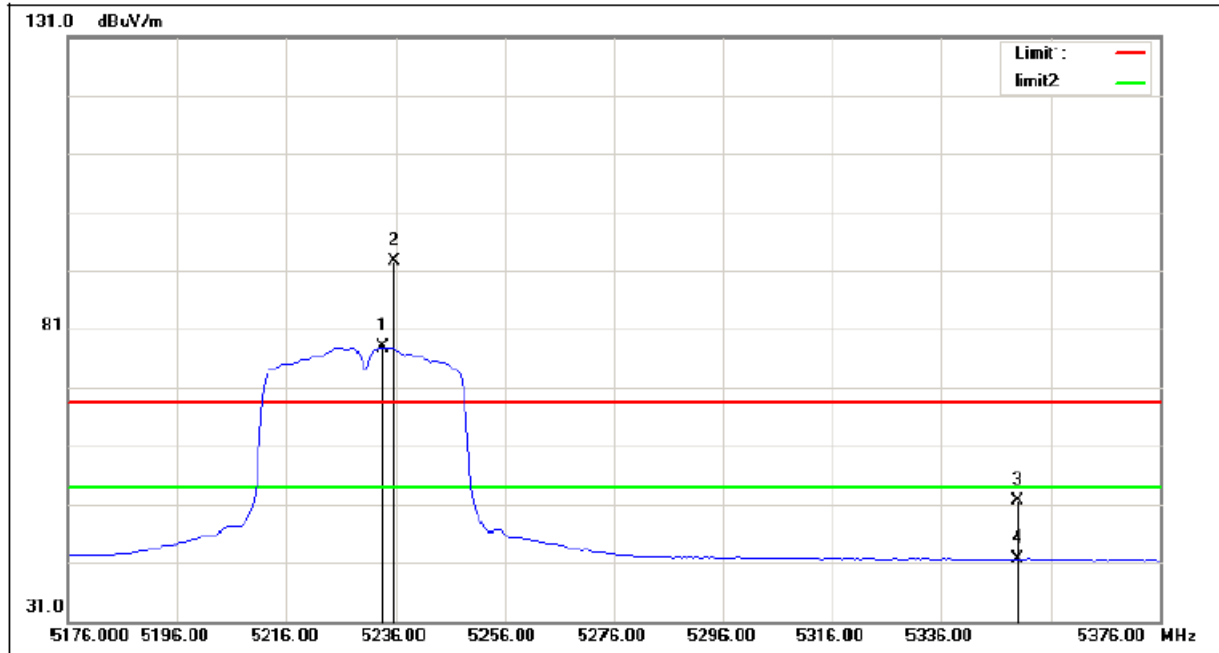
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	23.72	33.20	56.92	68.30	-11.38	peak
2	5150.000	12.65	33.20	45.85	54.00	-8.15	AVG
3	5187.500	55.67	33.29	88.96	/	/	AVG
4	5195.000	70.94	33.31	104.25	/	/	peak

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5230 MHz

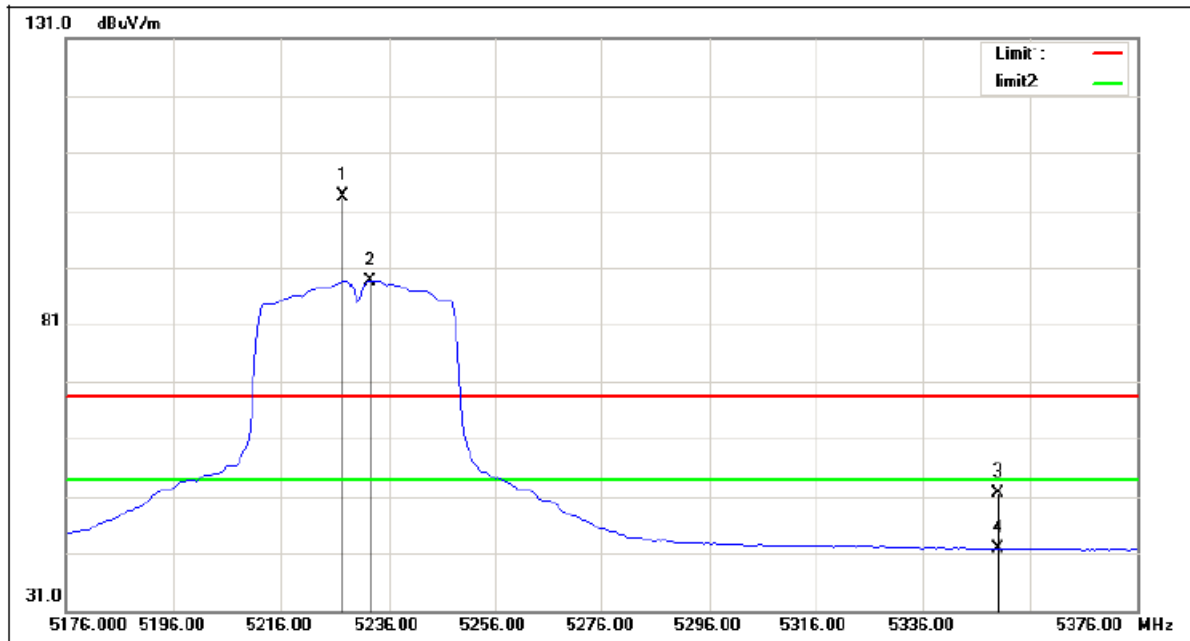
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5233.500	44.60	33.40	78.00	/	/	AVG
2	5235.500	59.15	33.41	92.56	/	/	peak
3	5350.000	18.02	33.68	51.70	68.30	-16.60	peak
4	5350.000	8.01	33.68	41.69	54.00	-12.31	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

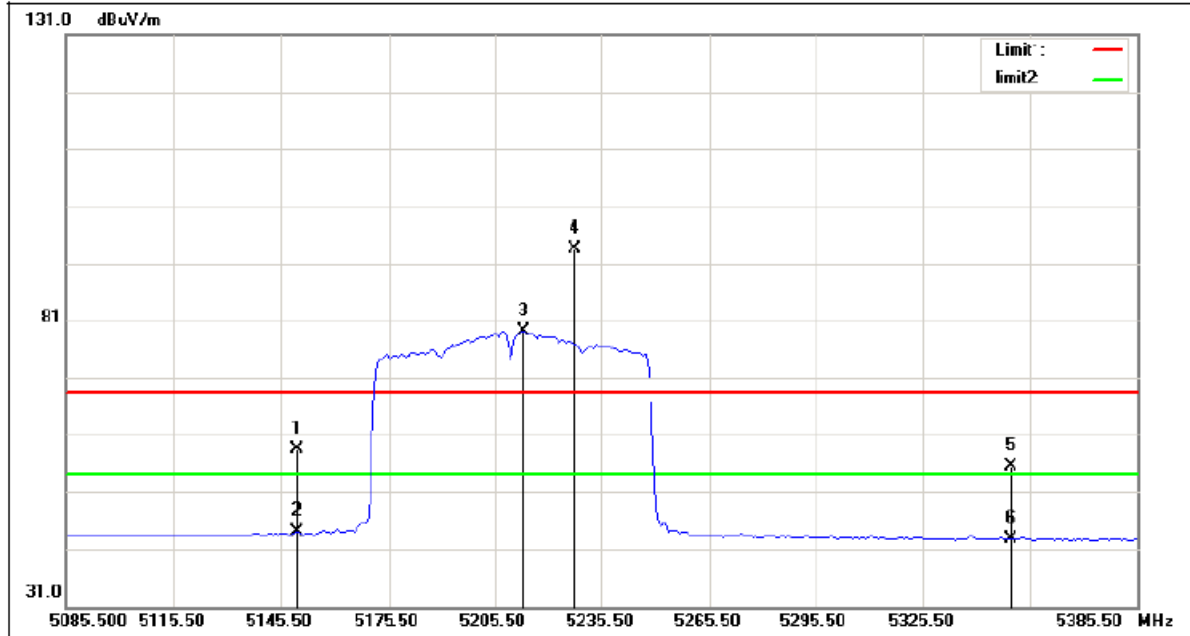
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5227.500	69.91	33.39	103.30	/	/	peak
2	5232.500	55.35	33.40	88.75	/	/	AVG
3	5350.000	18.06	33.68	51.74	68.30	-16.56	peak
4	5350.000	8.20	33.68	41.88	54.00	-12.12	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

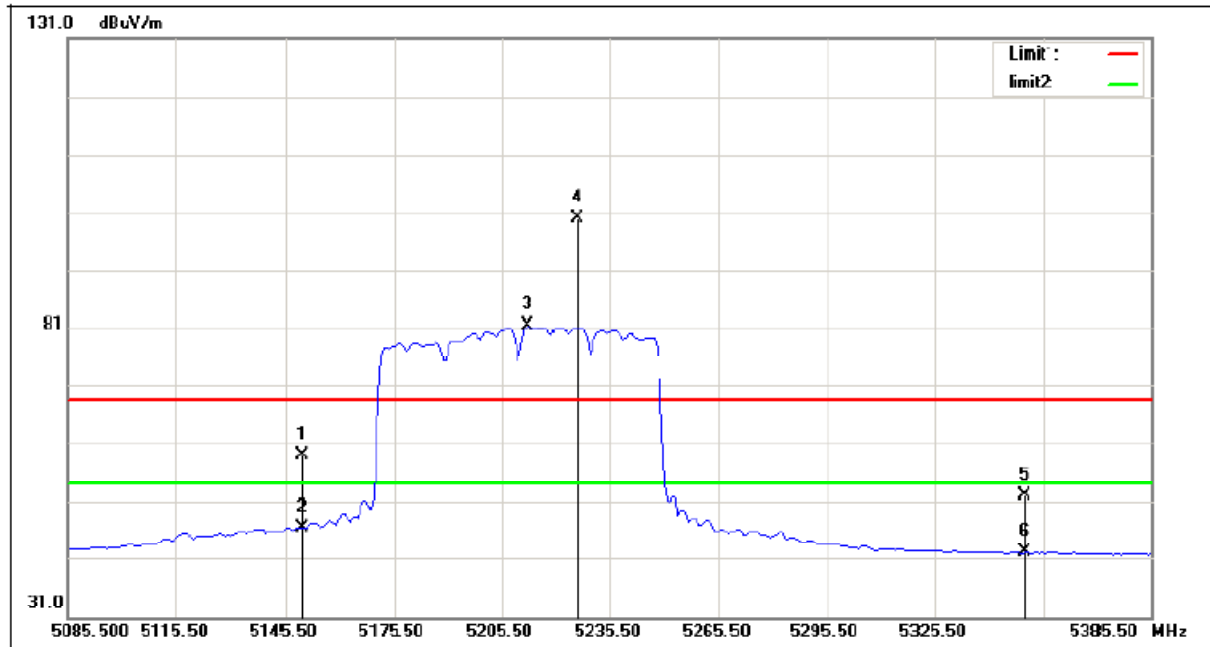
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	25.06	33.20	58.26	68.30	-10.04	peak
2	5150.000	10.90	33.20	44.10	54.00	-9.90	AVG
3	5213.750	45.82	33.35	79.17	/	/	AVG
4	5228.000	60.18	33.39	93.57	/	/	peak
5	5350.000	21.69	33.68	55.37	68.30	-12.93	peak
6	5350.000	9.23	33.68	42.91	54.00	-11.09	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

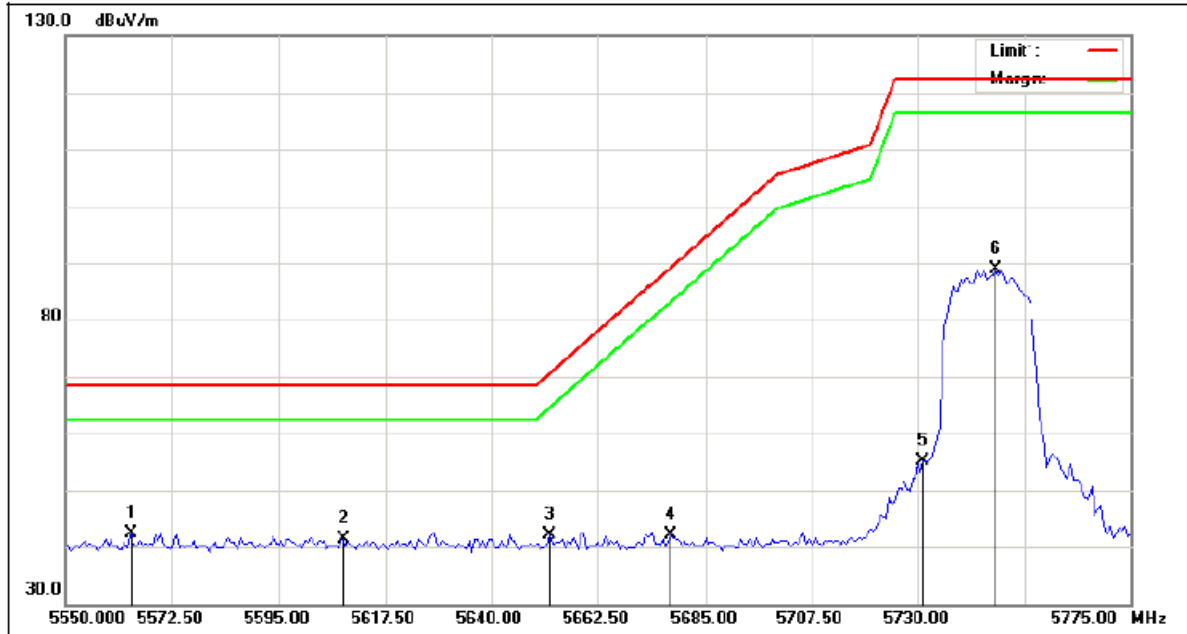
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	25.56	33.20	58.76	68.30	-9.54	peak
2	5150.000	13.21	33.20	46.41	54.00	-7.59	AVG
3	5213.000	47.92	33.35	81.27	/	/	AVG
4	5226.500	66.38	33.38	99.76	/	/	peak
5	5350.000	18.08	33.68	51.76	68.30	-16.54	peak
6	5350.000	8.34	33.68	42.02	54.00	-11.98	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

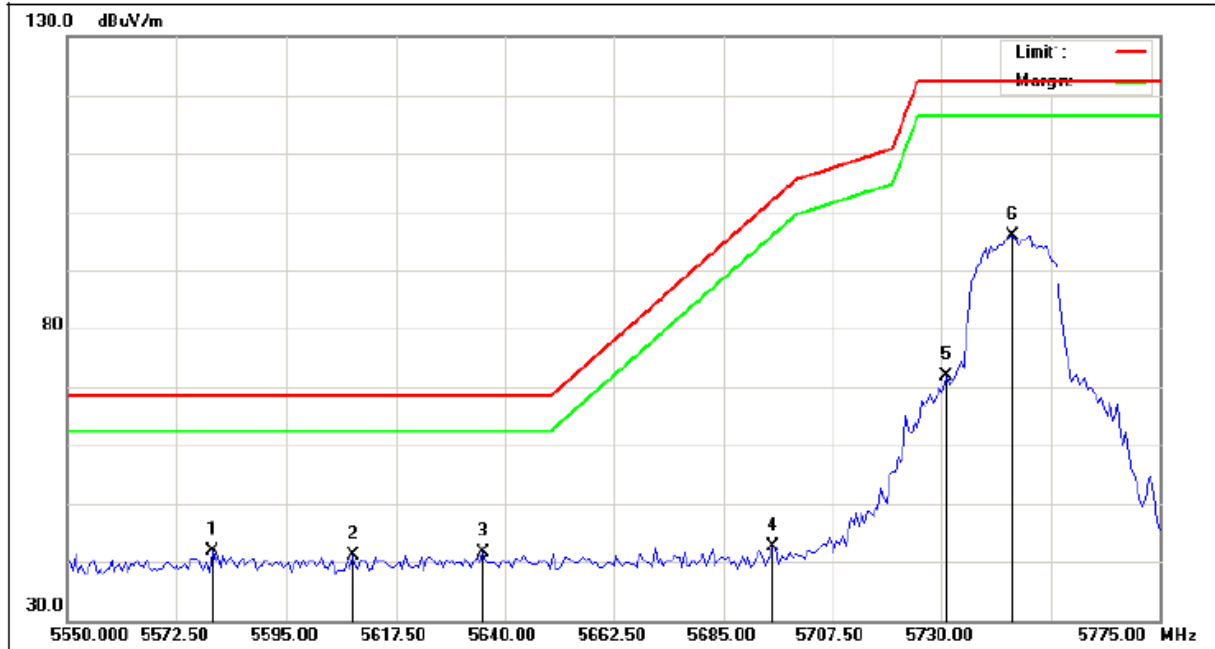
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5564.063	48.66	-6.37	42.29	68.30	-26.01	peak
2	5608.500	47.74	-6.32	41.42	68.30	-26.88	peak
3	5652.375	48.31	-6.26	42.05	70.06	-28.01	peak
4	5677.688	48.24	-6.22	42.02	88.79	-46.77	peak
5	5731.125	61.30	-6.16	55.14	122.30	-67.16	peak
6	5746.313	95.08	-6.15	88.93	122.30	-33.37	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

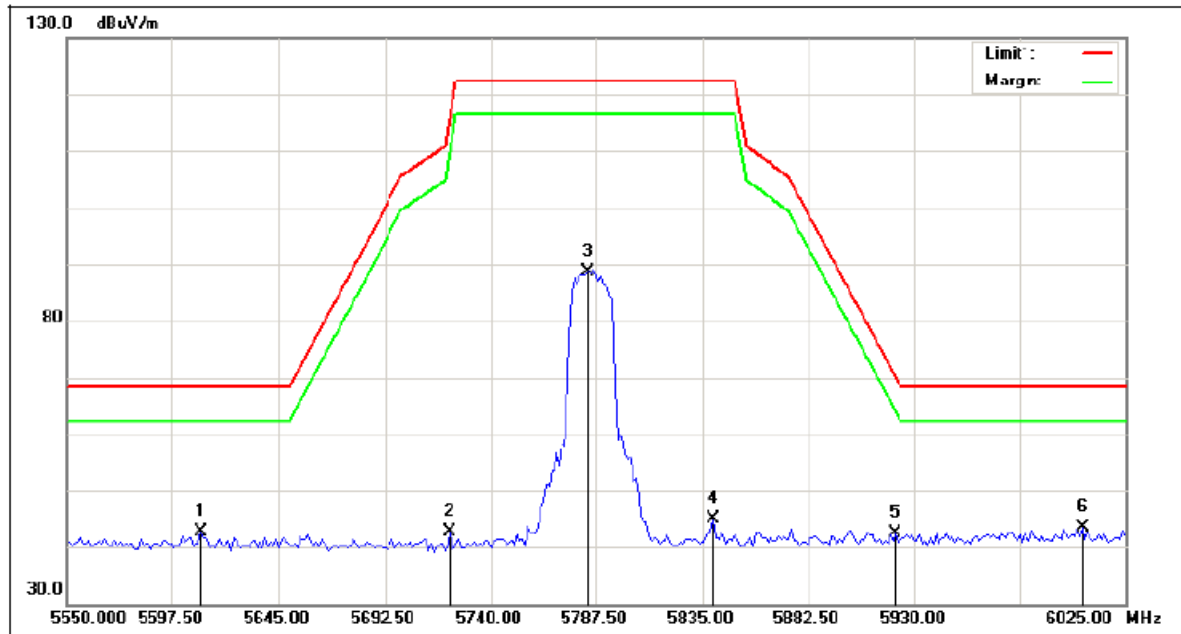
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5579.813	48.15	-6.35	41.80	68.30	-26.50	peak
2	5608.500	47.33	-6.32	41.01	68.30	-27.29	peak
3	5635.500	47.80	-6.28	41.52	68.30	-26.78	peak
4	5695.125	48.91	-6.21	42.70	101.69	-58.99	peak
5	5731.125	77.94	-6.16	71.78	122.30	-50.52	peak
6	5744.625	102.05	-6.15	95.90	122.30	-26.40	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

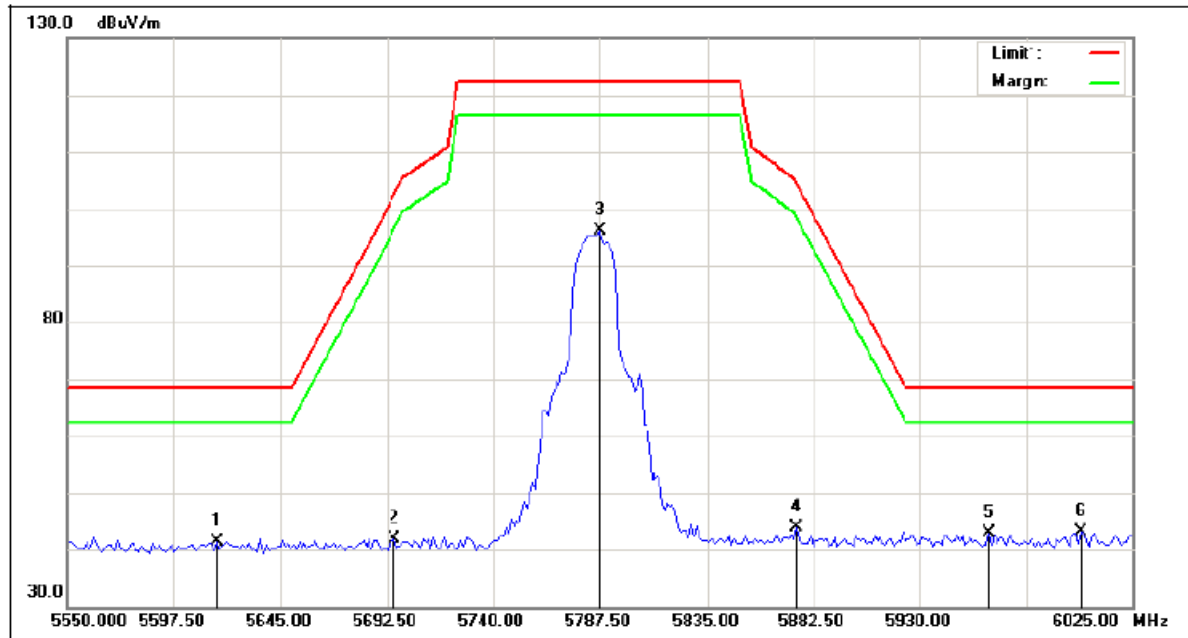
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.563	48.94	-6.32	42.62	68.30	-25.68	peak
2	5722.188	48.75	-6.18	42.57	115.89	-73.32	peak
3	5783.938	94.72	-6.10	88.62	122.30	-33.68	peak
4	5839.750	50.87	-6.03	44.84	122.30	-77.46	peak
5	5921.688	48.34	-5.93	42.41	70.75	-28.34	peak
6	6006.000	49.21	-5.80	43.41	68.30	-24.89	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

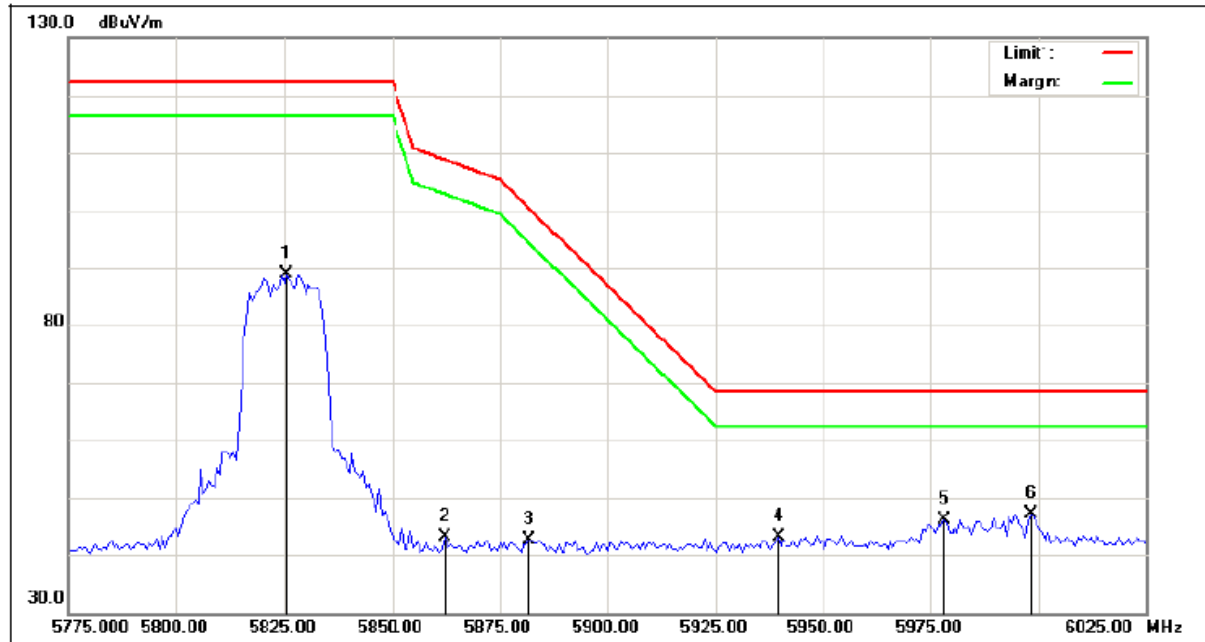
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.500	47.57	-6.31	41.26	68.30	-27.04	peak
2	5696.063	48.15	-6.21	41.94	102.39	-60.45	peak
3	5787.500	102.23	-6.09	96.14	122.30	-26.16	peak
4	5875.375	49.80	-5.99	43.81	105.02	-61.21	peak
5	5960.875	48.73	-5.88	42.85	68.30	-25.45	peak
6	6002.438	48.86	-5.82	43.04	68.30	-25.26	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

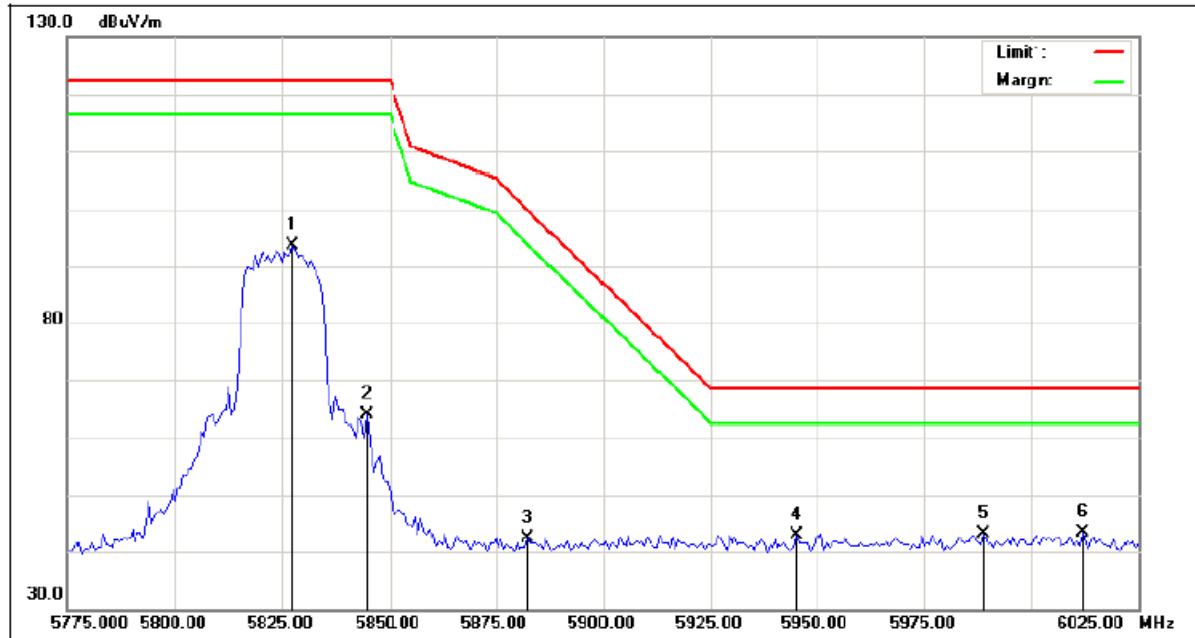
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5825.625	95.03	-6.05	88.98	122.30	-33.32	peak
2	5862.500	49.22	-6.00	43.22	108.80	-65.58	peak
3	5881.875	48.72	-5.98	42.74	100.21	-57.47	peak
4	5939.375	49.11	-5.90	43.21	68.30	-25.09	peak
5	5978.125	52.04	-5.85	46.19	68.30	-22.11	peak
6	5998.125	52.87	-5.83	47.04	68.30	-21.26	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

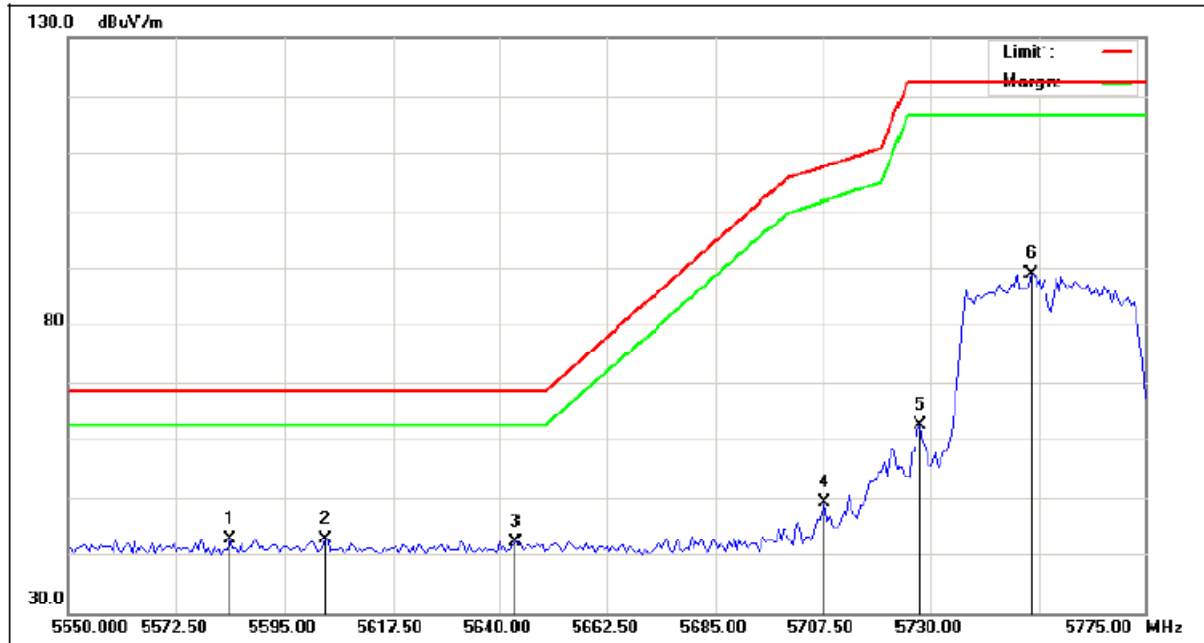
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.500	99.56	-6.04	93.52	122.30	-28.78	peak
2	5844.375	69.93	-6.03	63.90	122.30	-58.40	peak
3	5882.500	48.46	-5.97	42.49	99.75	-57.26	peak
4	5945.625	48.74	-5.90	42.84	68.30	-25.46	peak
5	5988.750	48.85	-5.84	43.01	68.30	-25.29	peak
6	6012.500	49.24	-5.76	43.48	68.30	-24.82	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

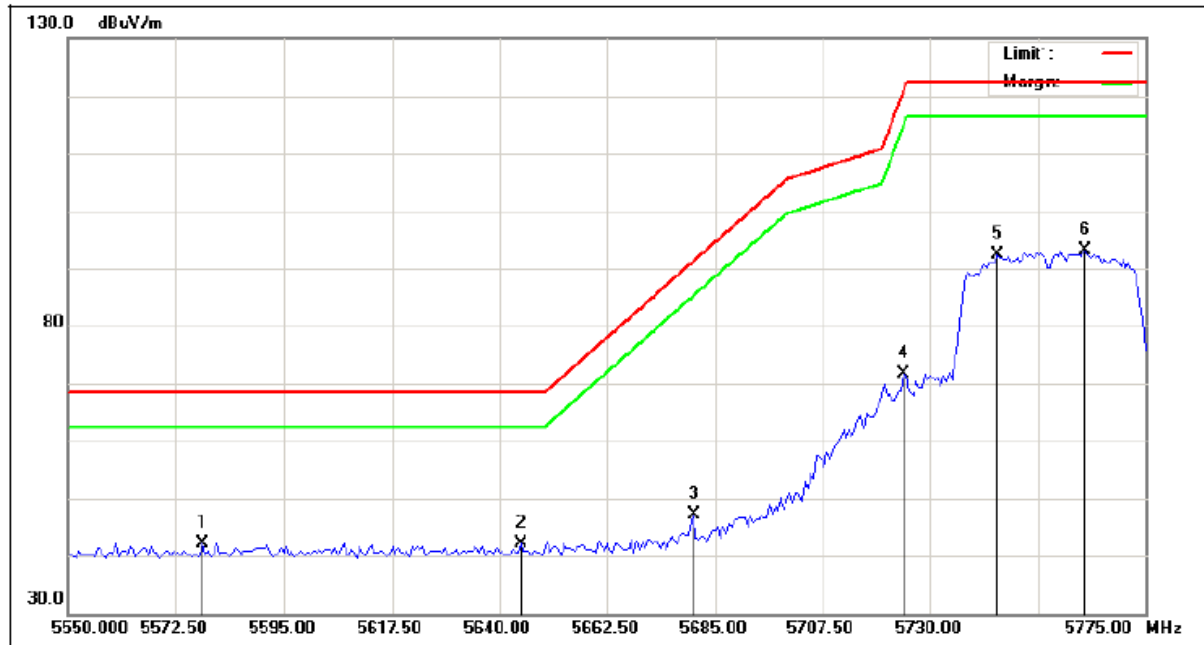
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5583.750	48.94	-6.35	42.59	68.30	-25.71	peak
2	5603.438	48.94	-6.32	42.62	68.30	-25.68	peak
3	5643.375	48.35	-6.26	42.09	68.30	-26.21	peak
4	5708.063	55.41	-6.19	49.22	107.56	-58.34	peak
5	5727.750	68.50	-6.16	62.34	122.30	-59.96	peak
6	5750.813	95.01	-6.14	88.87	122.30	-33.43	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

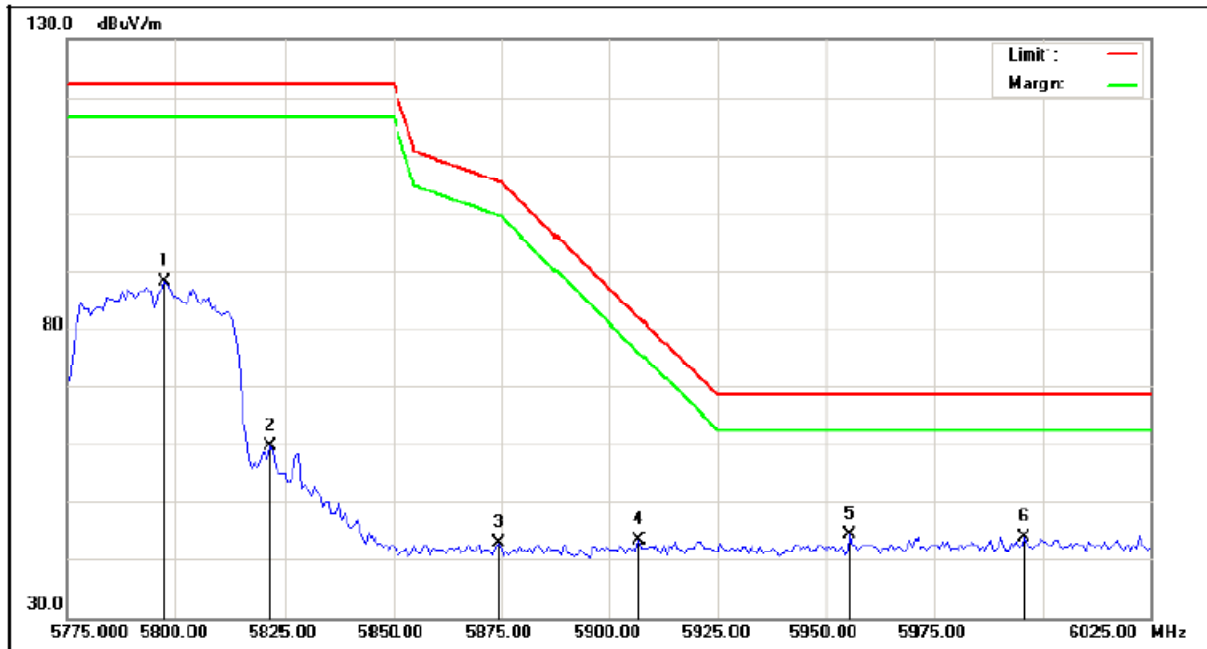
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5578.125	48.41	-6.35	42.06	68.30	-26.24	peak
2	5644.500	48.37	-6.27	42.10	68.30	-26.20	peak
3	5680.500	53.25	-6.22	47.03	90.87	-43.84	peak
4	5724.375	77.89	-6.17	71.72	120.87	-49.15	peak
5	5744.063	98.54	-6.15	92.39	122.30	-29.91	peak
6	5762.625	99.36	-6.12	93.24	122.30	-29.06	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

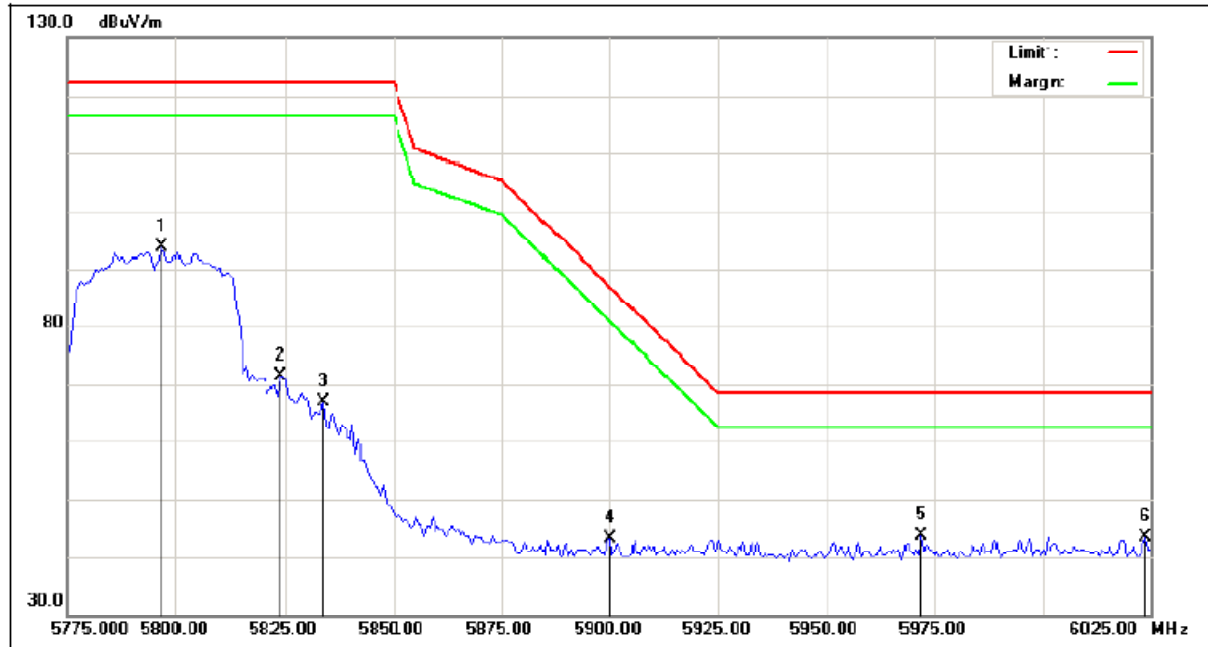
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.500	94.12	-6.09	88.03	122.30	-34.27	peak
2	5821.875	65.71	-6.06	59.65	122.30	-62.65	peak
3	5874.375	48.85	-5.99	42.86	105.47	-62.61	peak
4	5906.875	49.27	-5.95	43.32	81.71	-38.39	peak
5	5955.625	50.15	-5.88	44.27	68.30	-24.03	peak
6	5995.625	49.70	-5.84	43.86	68.30	-24.44	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

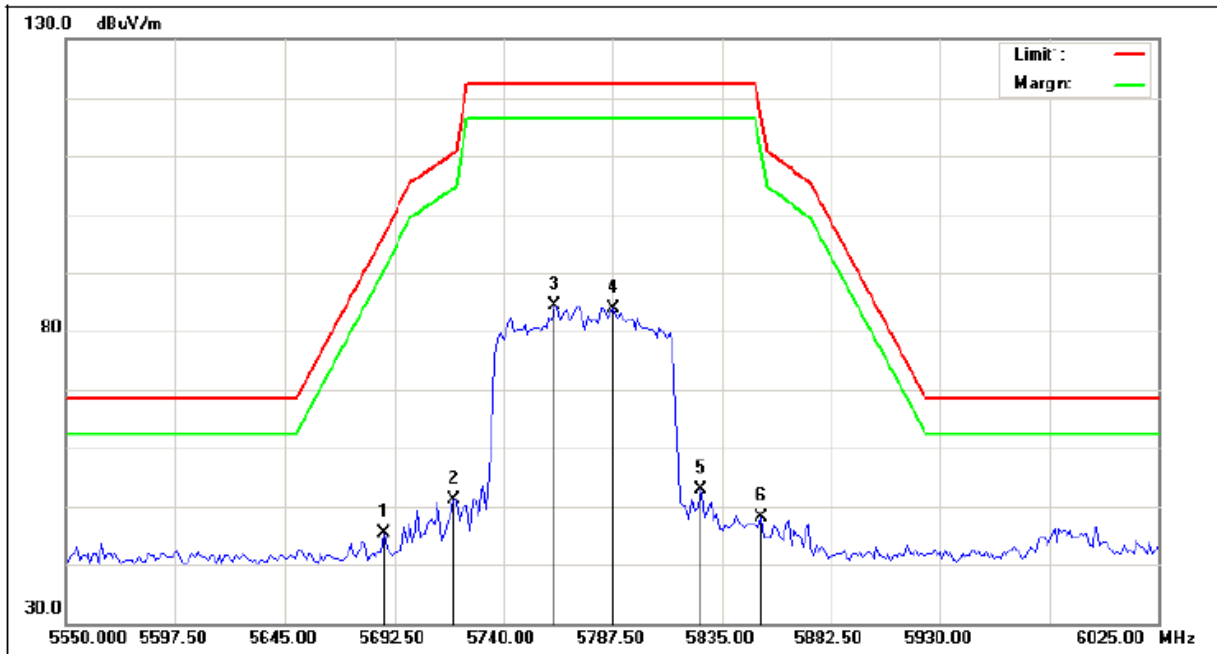
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5796.875	99.60	-6.09	93.51	122.30	-28.79	peak
2	5823.750	77.47	-6.05	71.42	122.30	-50.88	peak
3	5833.750	72.86	-6.04	66.82	122.30	-55.48	peak
4	5900.000	49.06	-5.95	43.11	86.80	-43.69	peak
5	5971.875	49.43	-5.87	43.56	68.30	-24.74	peak
6	6023.750	49.11	-5.70	43.41	68.30	-24.89	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

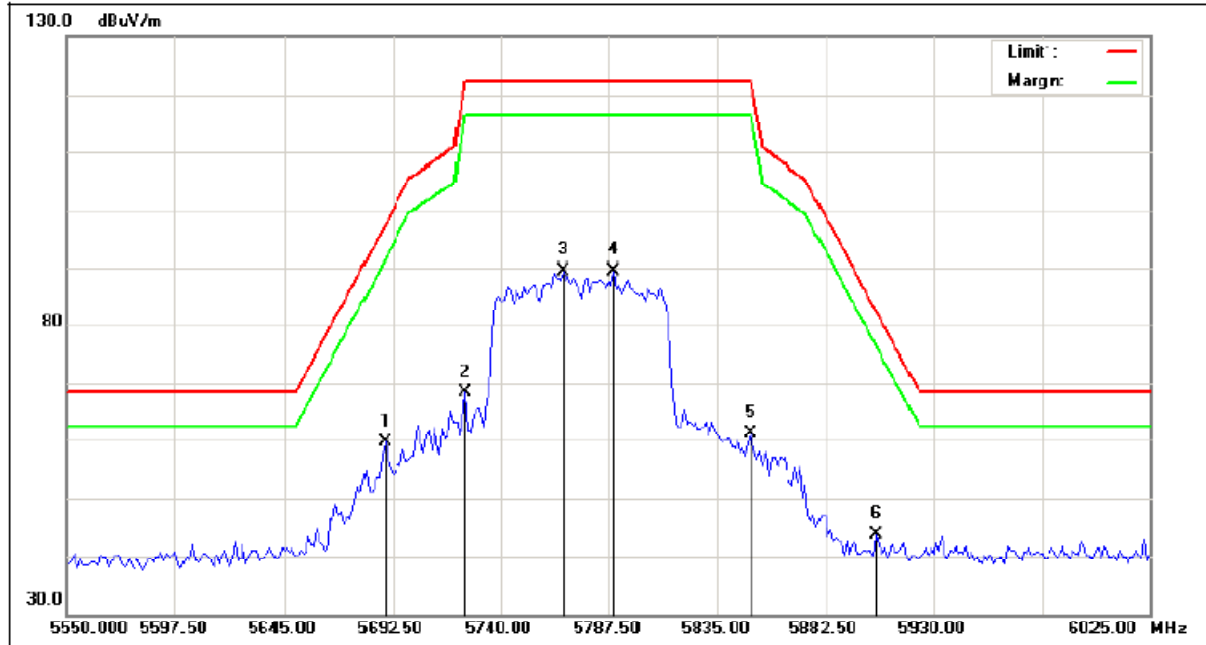
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5687.750	51.60	-6.21	45.39	96.23	-50.84	peak
2	5718.625	57.33	-6.17	51.16	110.51	-59.35	peak
3	5762.563	90.45	-6.12	84.33	122.30	-37.97	peak
4	5787.500	90.09	-6.09	84.00	122.30	-38.30	peak
5	5825.500	59.03	-6.05	52.98	122.30	-69.32	peak
6	5851.625	54.24	-6.02	48.22	118.59	-70.37	peak

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal

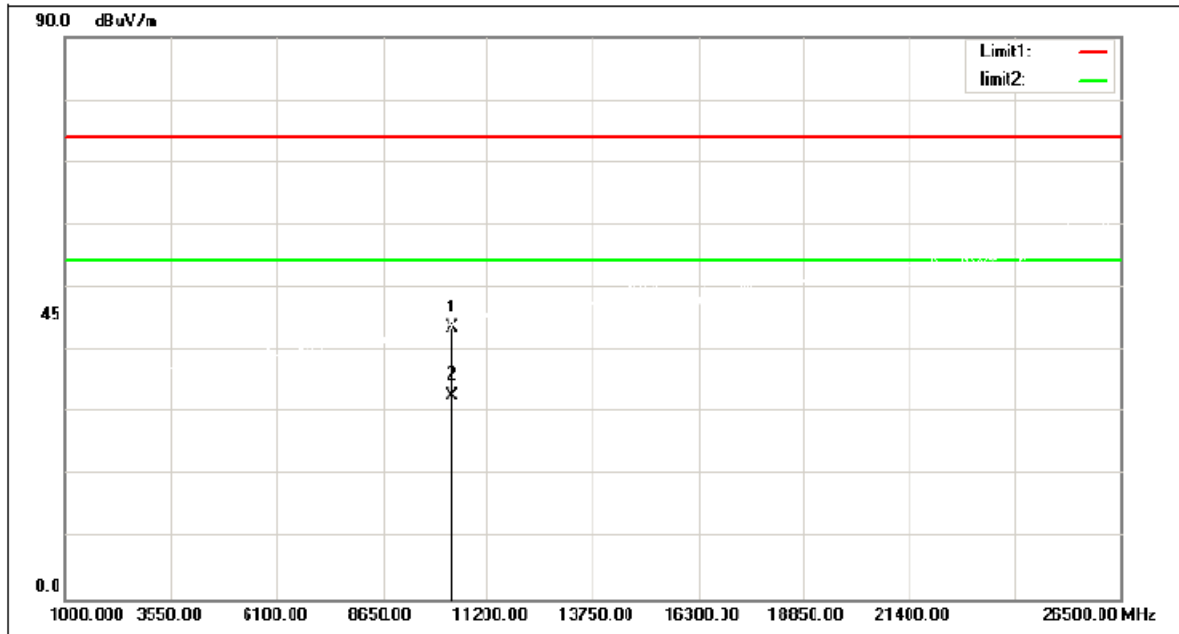


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5688.938	65.79	-6.21	59.58	97.11	-37.53	peak
2	5724.563	74.56	-6.17	68.39	121.30	-52.91	peak
3	5767.313	95.38	-6.12	89.26	122.30	-33.04	peak
4	5789.875	95.43	-6.09	89.34	122.30	-32.96	peak
5	5849.250	67.27	-6.02	61.25	122.30	-61.05	peak
6	5905.063	49.55	-5.94	43.61	83.05	-39.44	peak

5.9 TEST RESULTS - ABOVE 1000 MHz (HARMONIC)

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

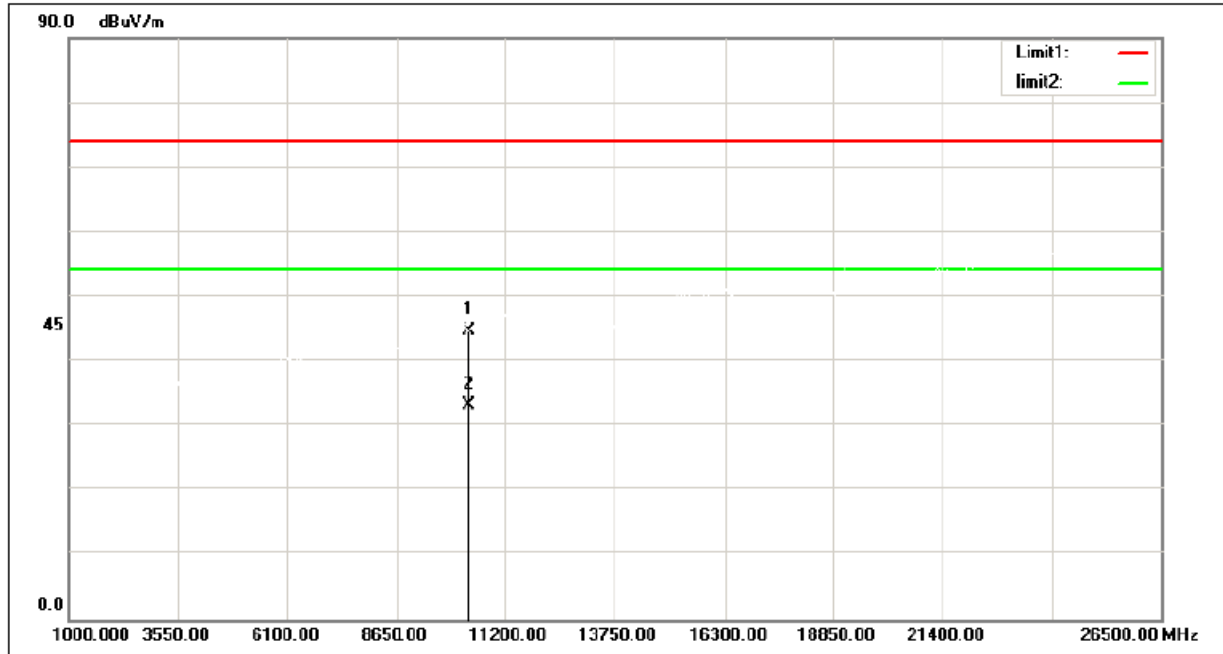
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	38.98	4.53	43.51	74.00	-30.49	peak
2	10360.000	28.32	4.53	32.85	54.00	-21.15	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

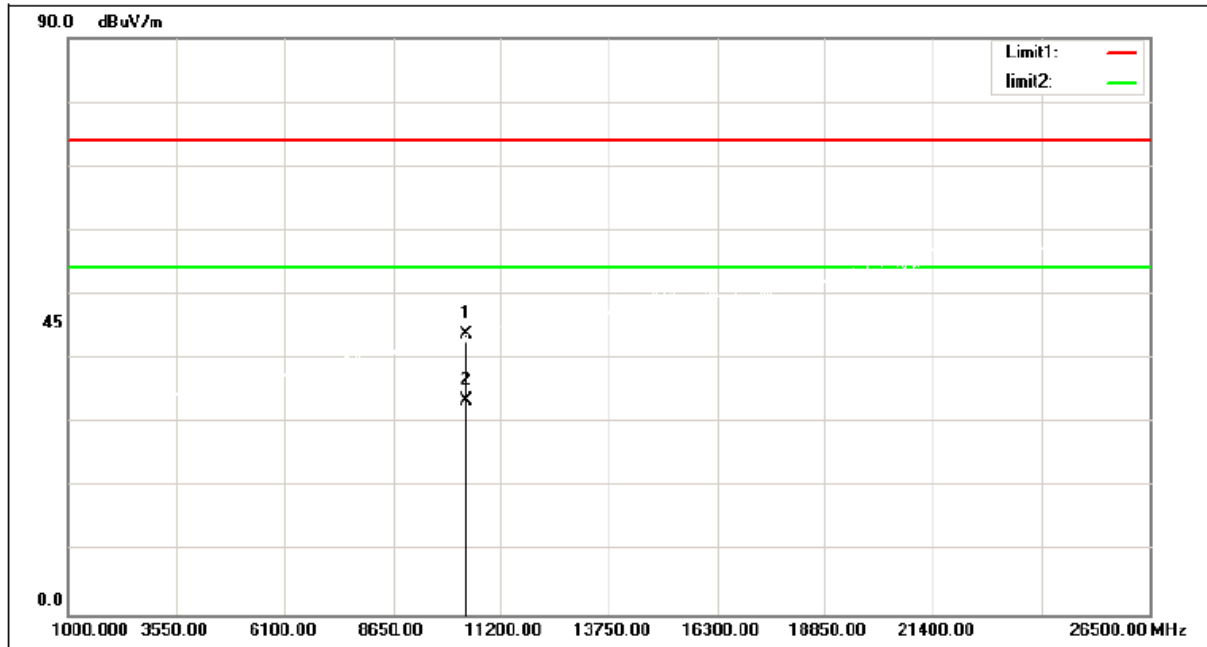
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	40.12	4.53	44.65	74.00	-29.35	peak
2	10360.000	28.71	4.53	33.24	54.00	-20.76	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

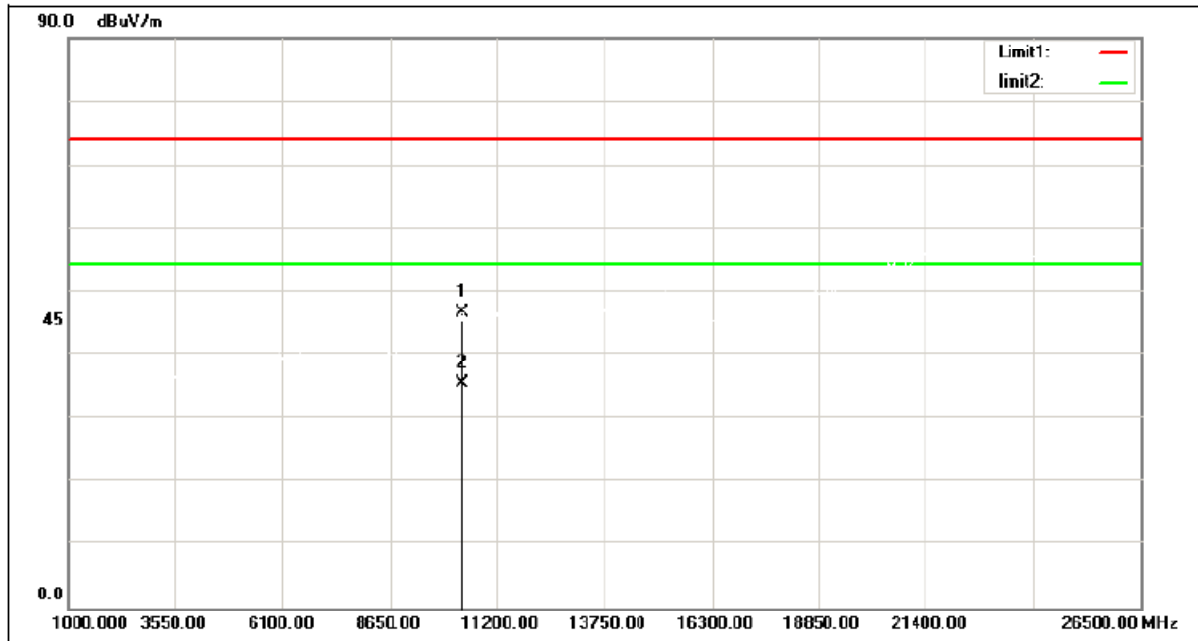
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	39.18	4.65	43.83	74.00	-30.17	peak
2	10400.000	28.80	4.65	33.45	54.00	-20.55	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

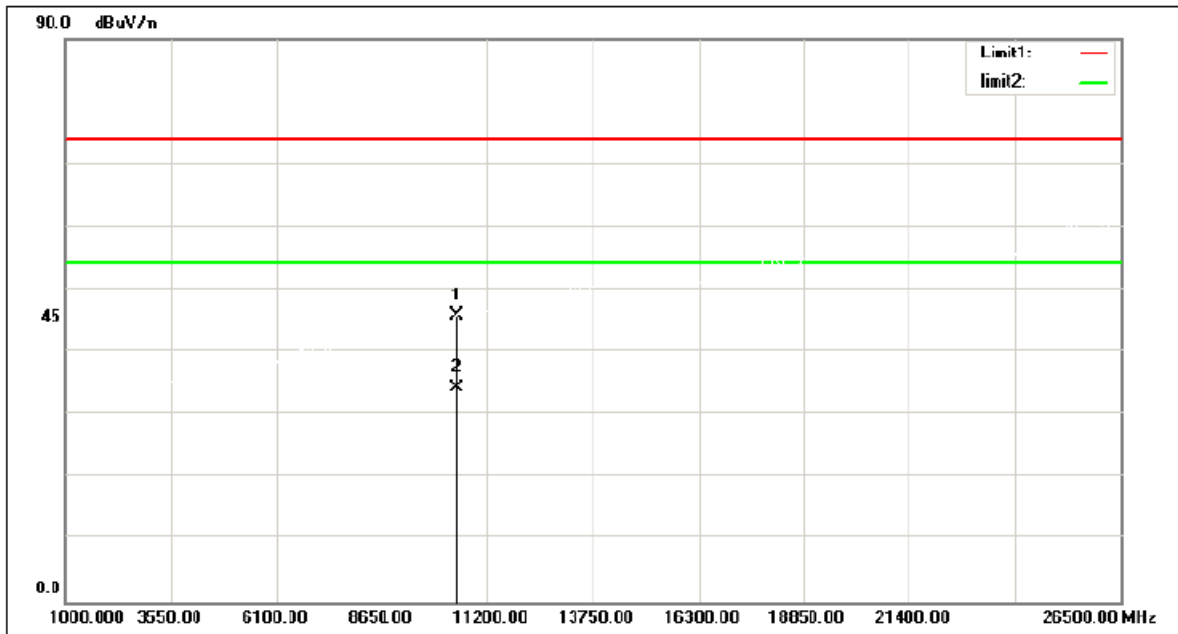
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	42.01	4.65	46.66	74.00	-27.34	peak
2	10400.000	30.84	4.65	35.49	54.00	-18.51	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

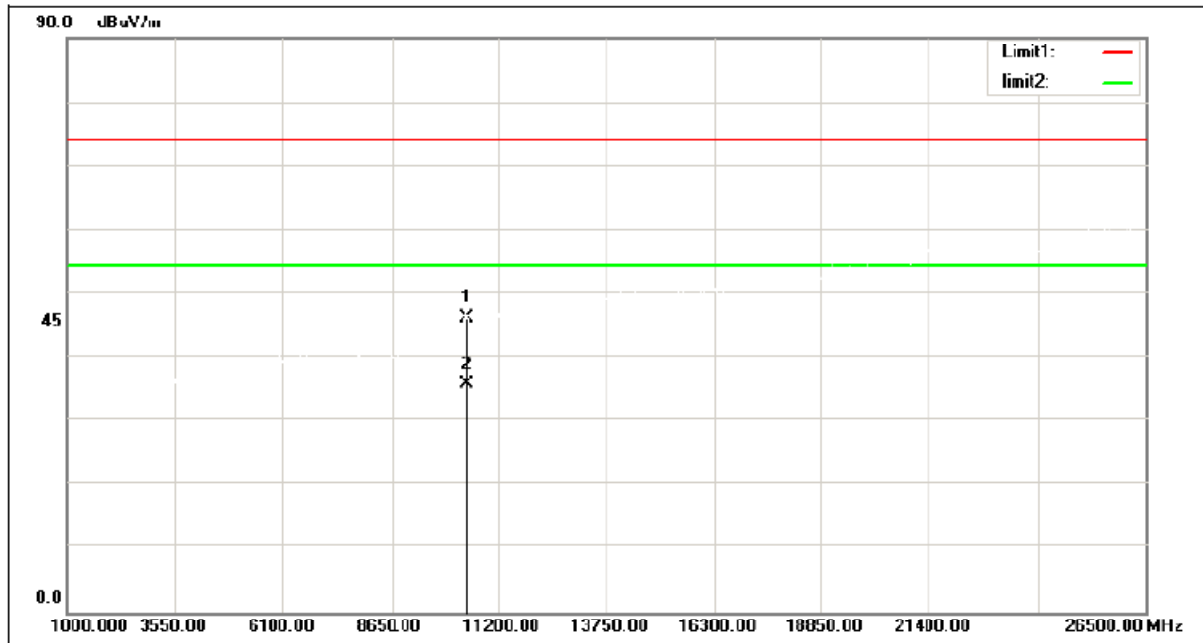
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	41.00	4.90	45.90	74.00	-28.10	peak
2	10480.000	29.38	4.90	34.28	54.00	-19.72	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

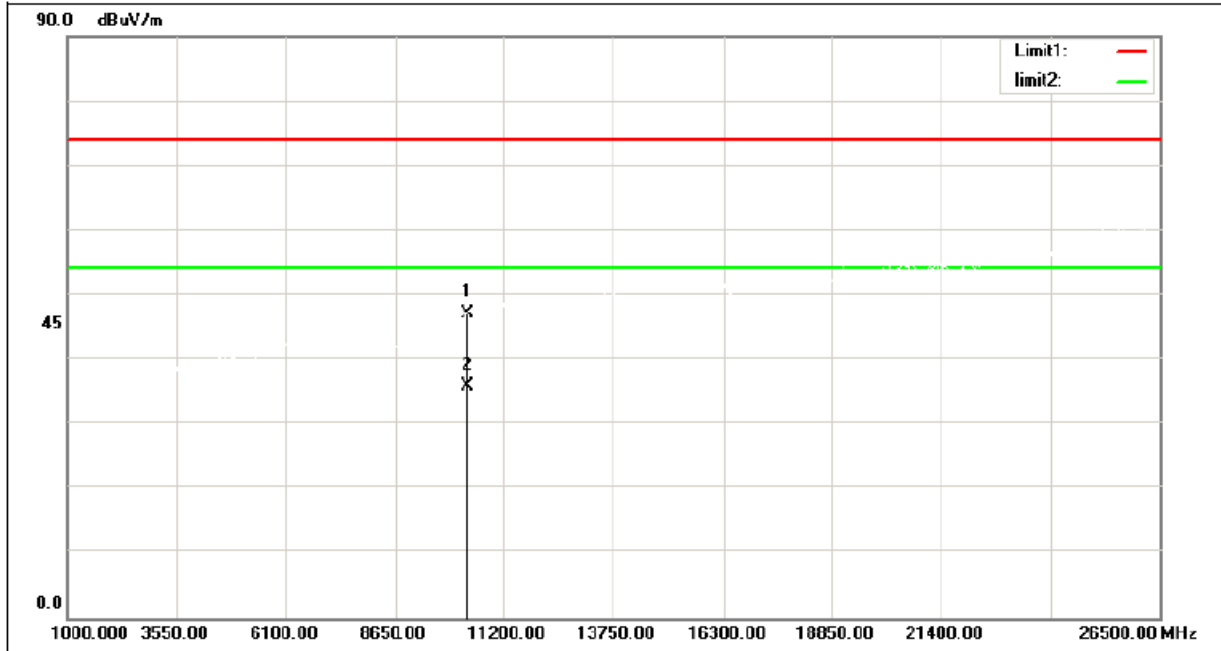
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	41.20	4.90	46.10	74.00	-27.90	peak
2	10480.000	30.77	4.90	35.67	54.00	-18.33	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

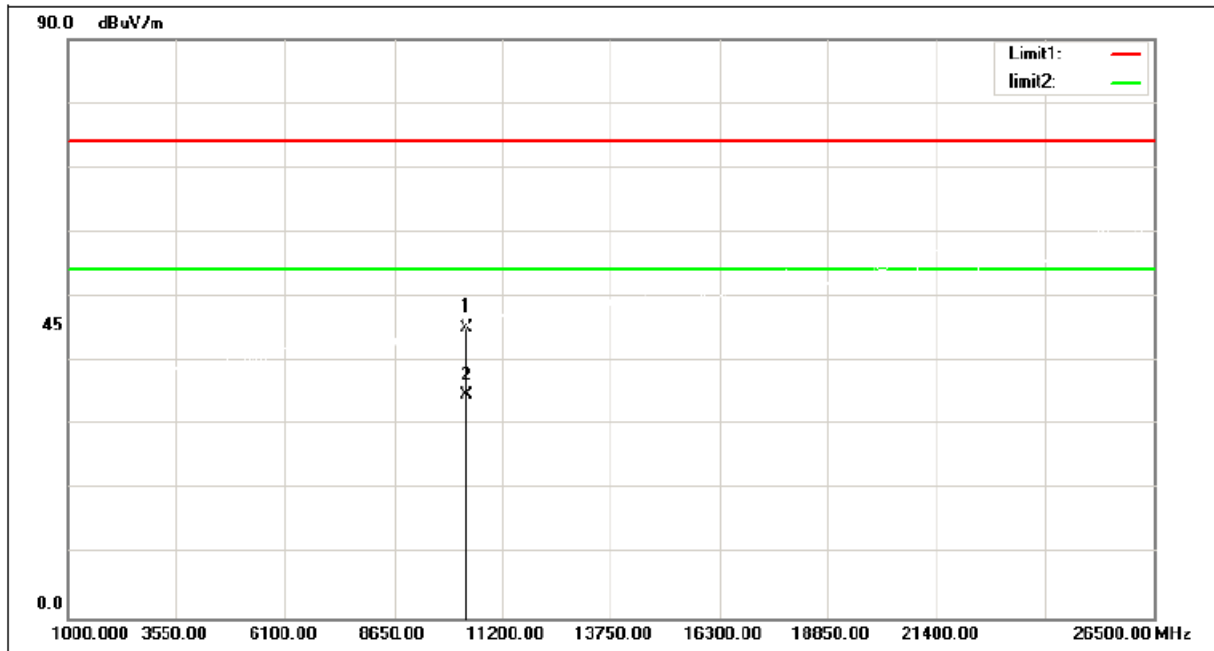
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	42.62	4.53	47.15	74.00	-26.85	peak
2	10360.000	31.32	4.53	35.85	54.00	-18.15	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

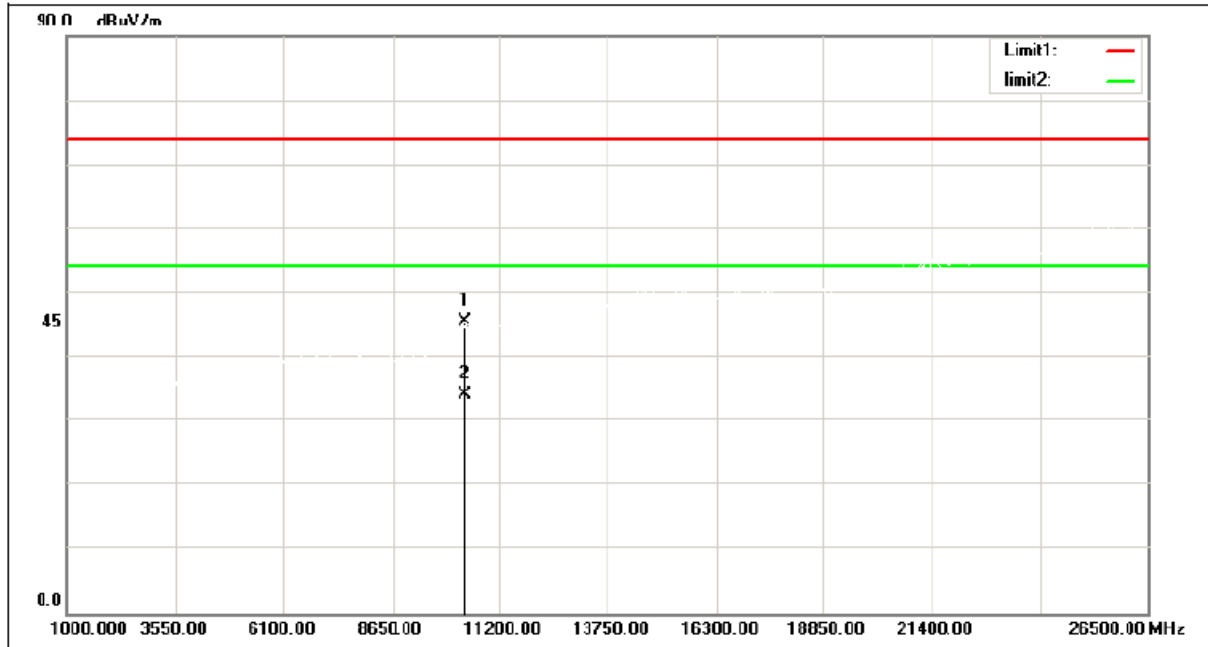
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	40.48	4.53	45.01	74.00	-28.99	peak
2	10360.000	30.05	4.53	34.58	54.00	-19.42	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz

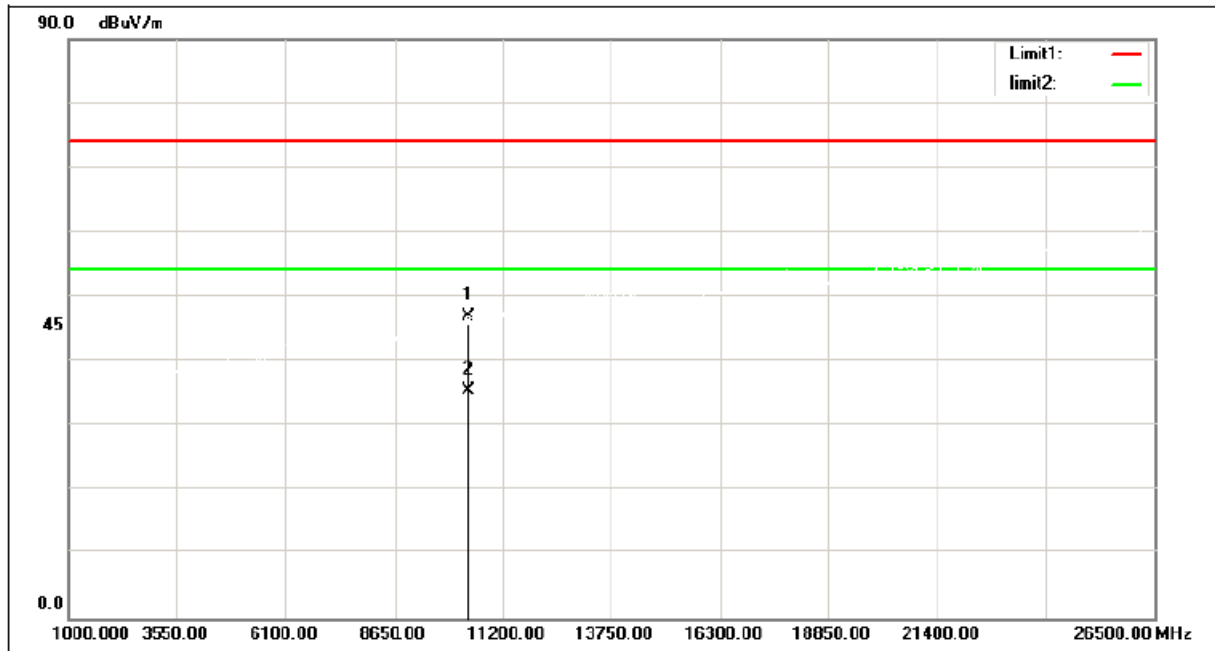
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	41.01	4.65	45.66	74.00	-28.34	peak
2	10400.000	29.77	4.65	34.42	54.00	-19.58	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz

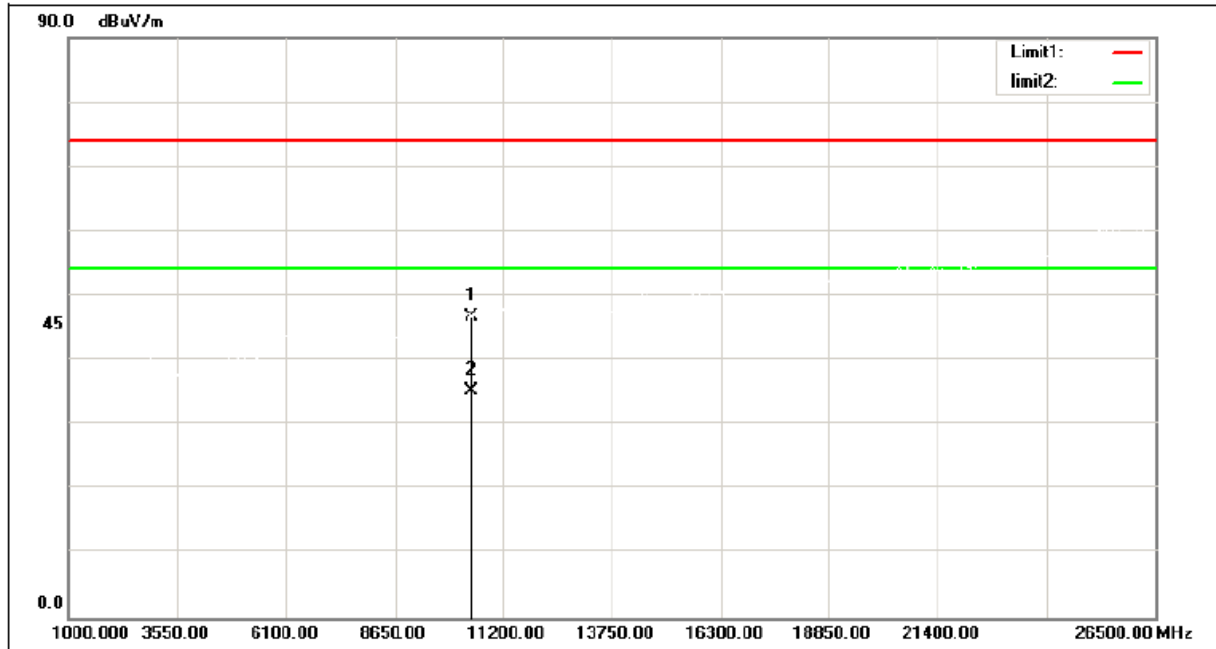
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	42.18	4.65	46.83	74.00	-27.17	peak
2	10400.000	30.82	4.65	35.47	54.00	-18.53	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz

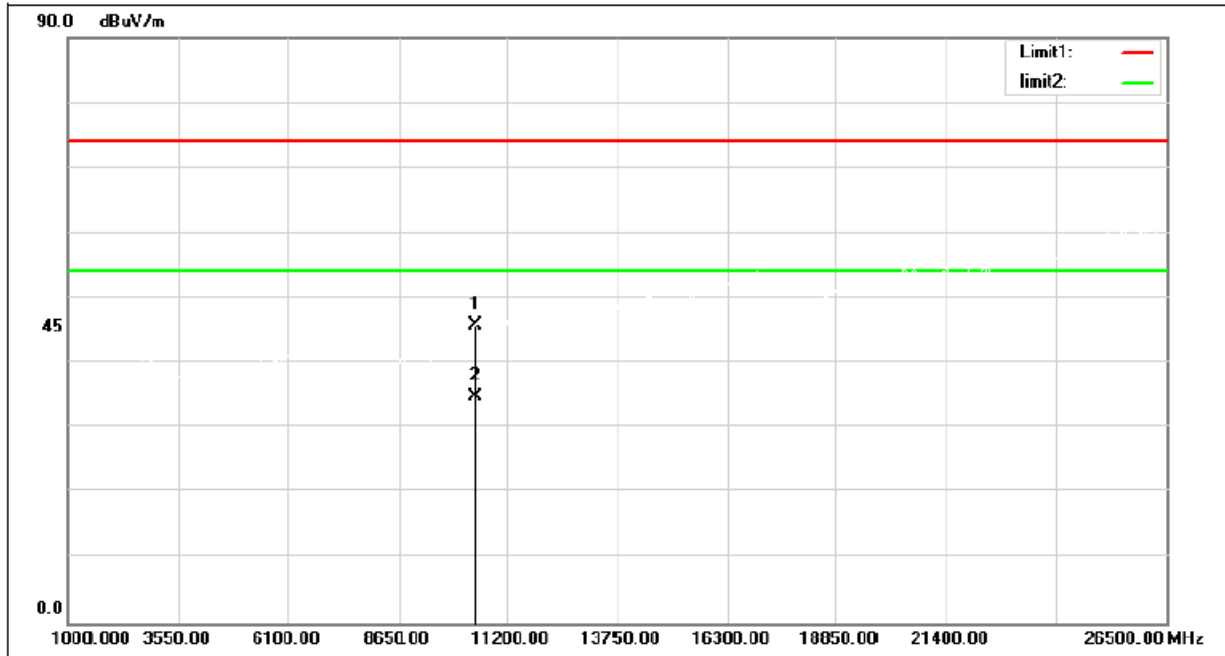
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	41.70	4.90	46.60	74.00	-27.40	peak
2	10480.000	30.37	4.90	35.27	54.00	-18.73	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz

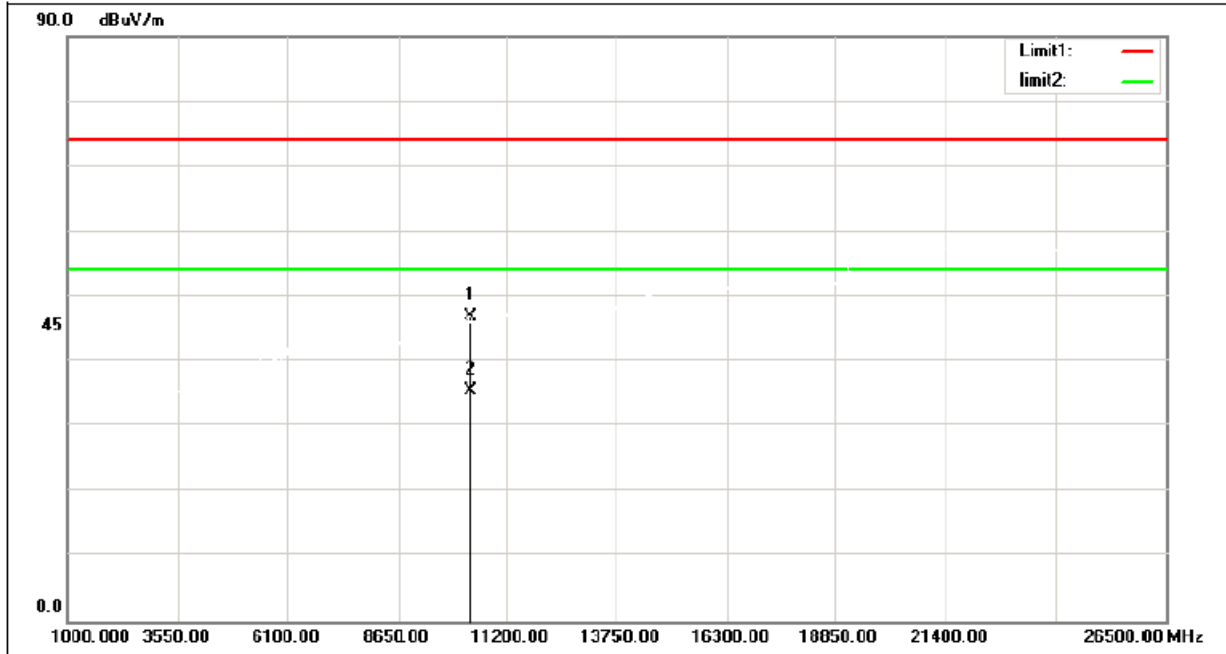
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	41.00	4.90	45.90	74.00	-28.10	peak
2	10480.000	29.78	4.90	34.68	54.00	-19.32	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

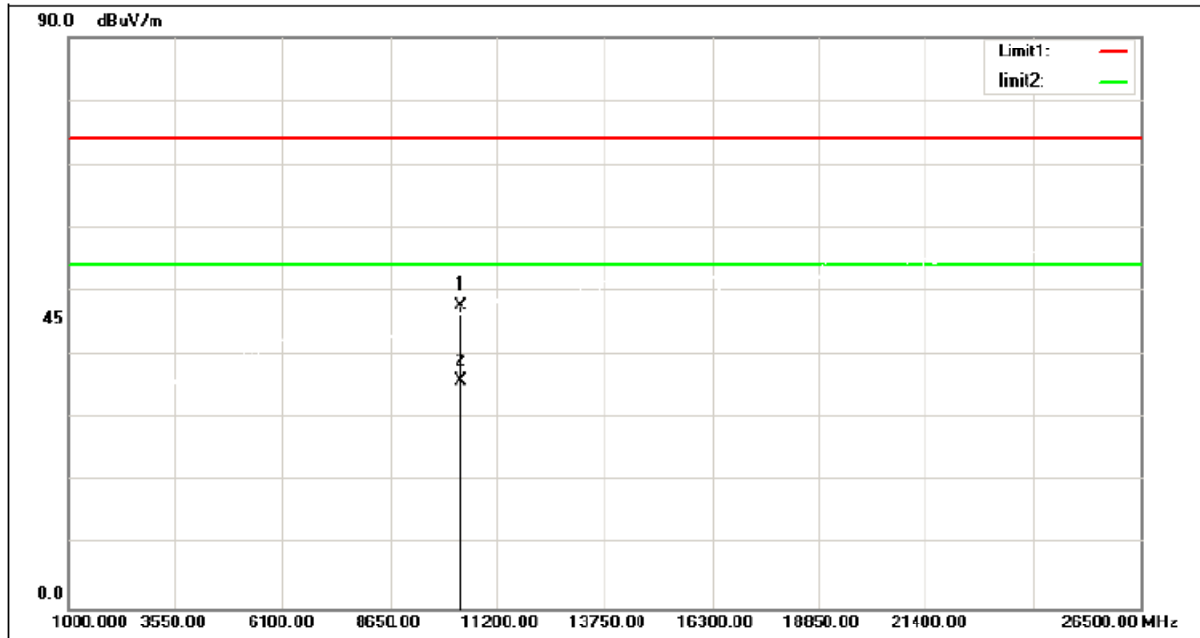
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	42.24	4.59	46.83	74.00	-27.17	peak
2	10380.000	30.89	4.59	35.48	54.00	-18.52	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

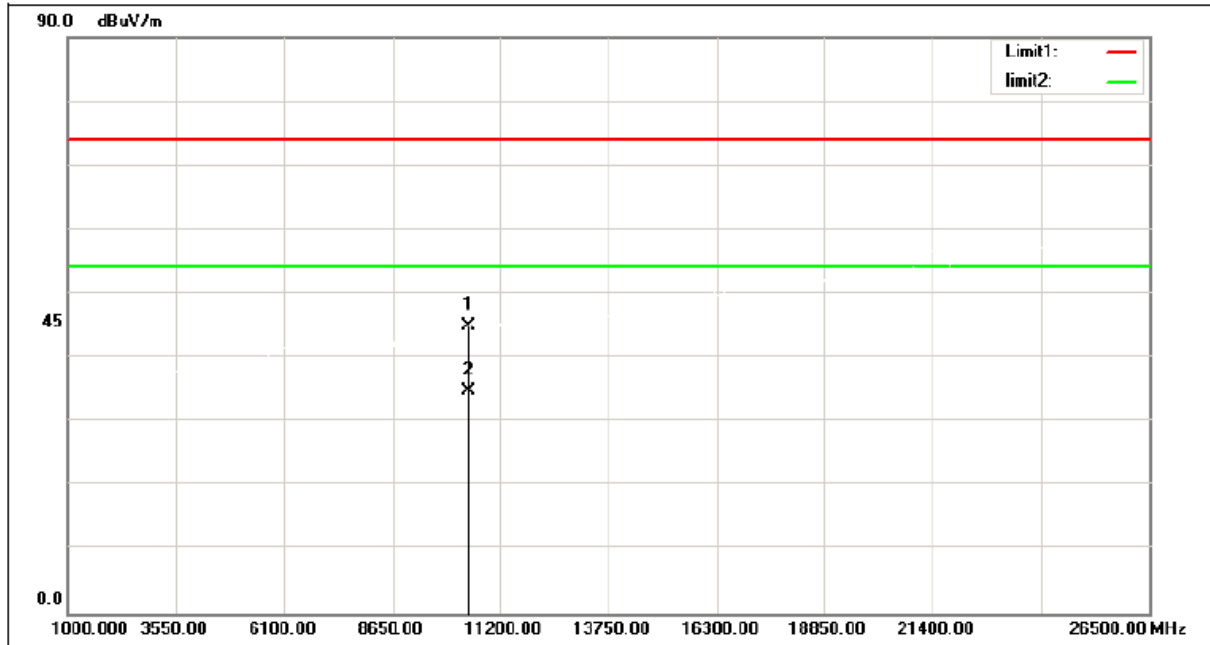
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	43.07	4.59	47.66	74.00	-26.34	peak
2	10380.000	31.12	4.59	35.71	54.00	-18.29	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

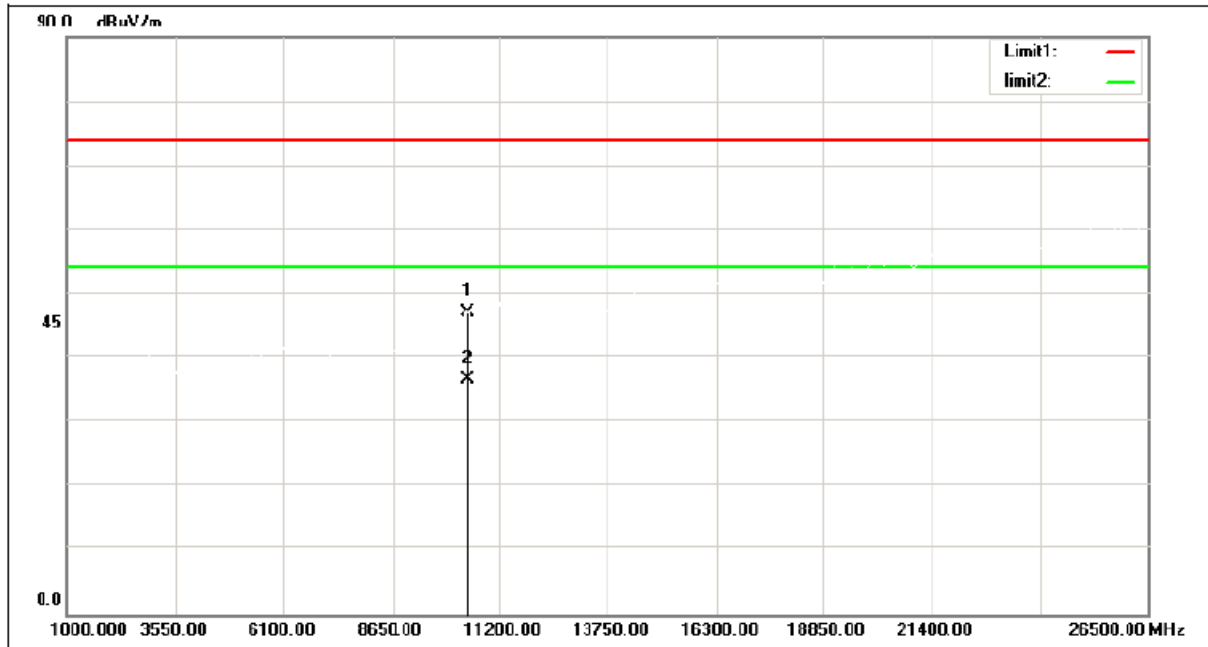
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	40.06	4.84	44.90	74.00	-29.10	peak
2	10460.000	30.03	4.84	34.87	54.00	-19.13	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

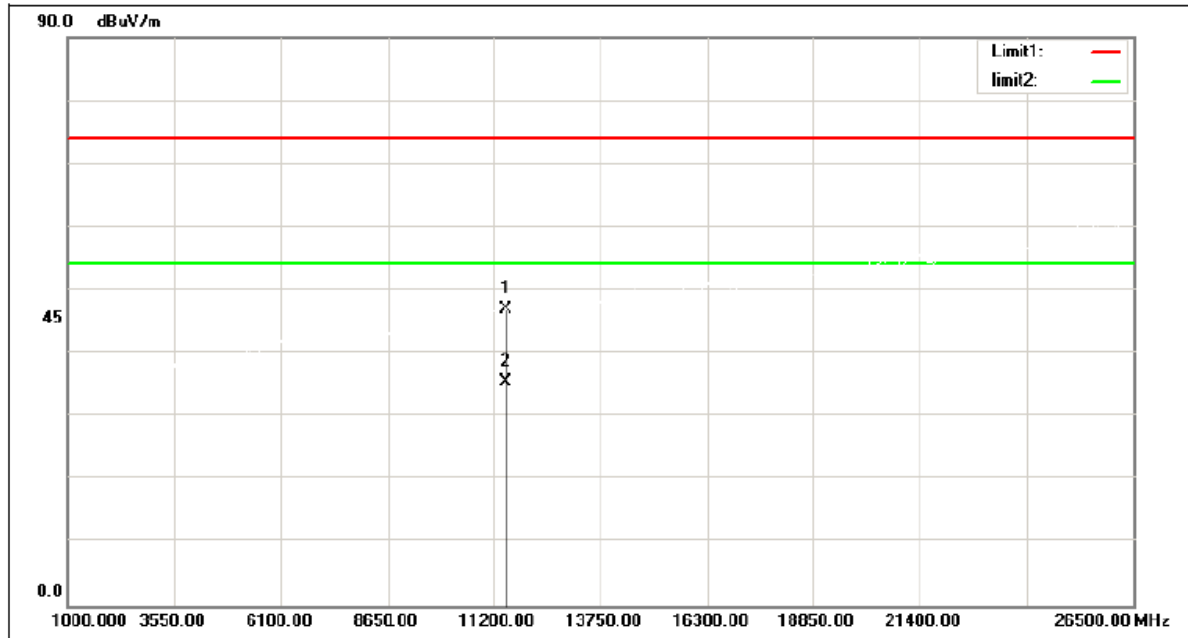
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	42.26	4.84	47.10	74.00	-26.90	peak
2	10460.000	31.64	4.84	36.48	54.00	-17.52	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

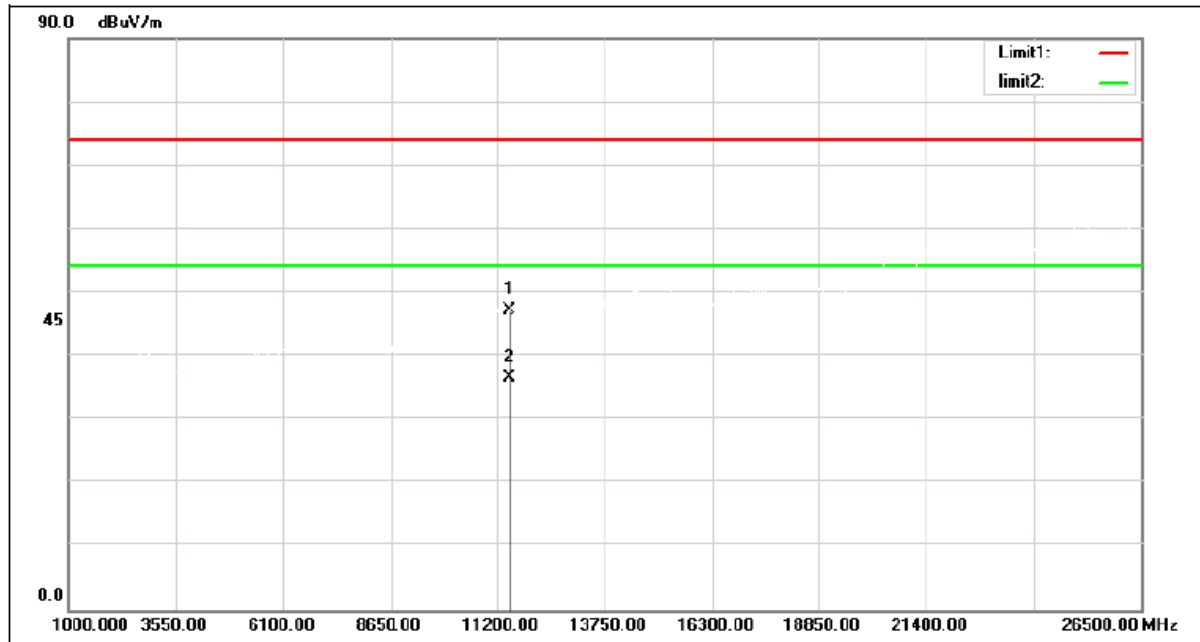
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.71	6.27	46.98	74.00	-27.02	peak
2	11490.000	29.21	6.27	35.48	54.00	-18.52	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

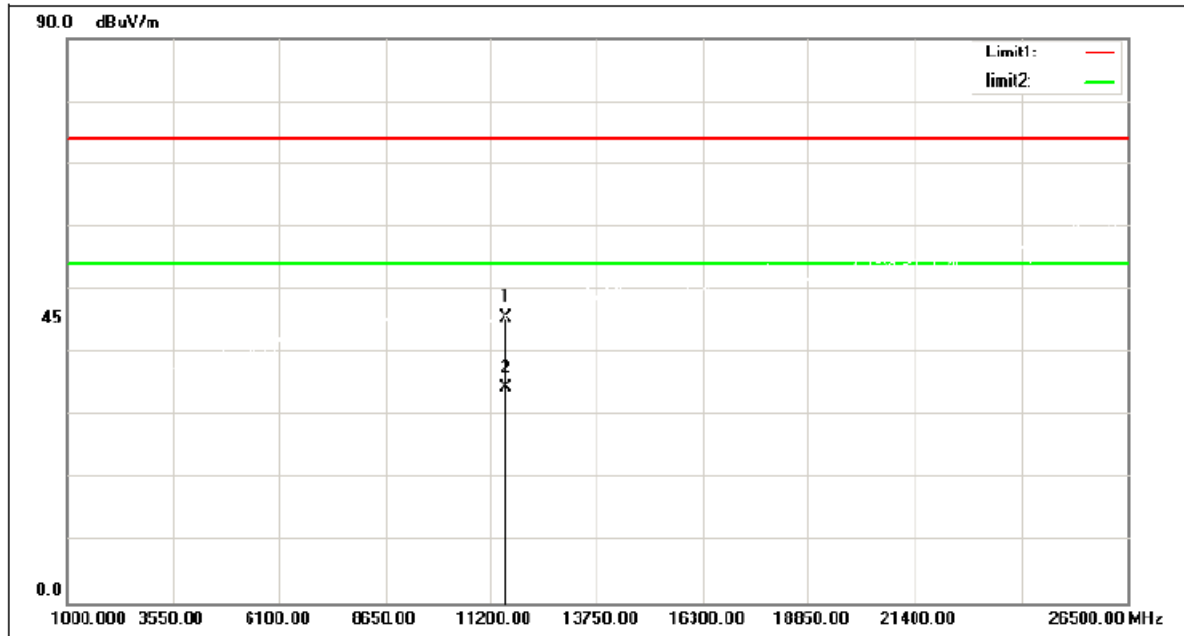
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.97	6.27	47.24	74.00	-26.76	peak
2	11490.000	30.32	6.27	36.59	54.00	-17.41	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

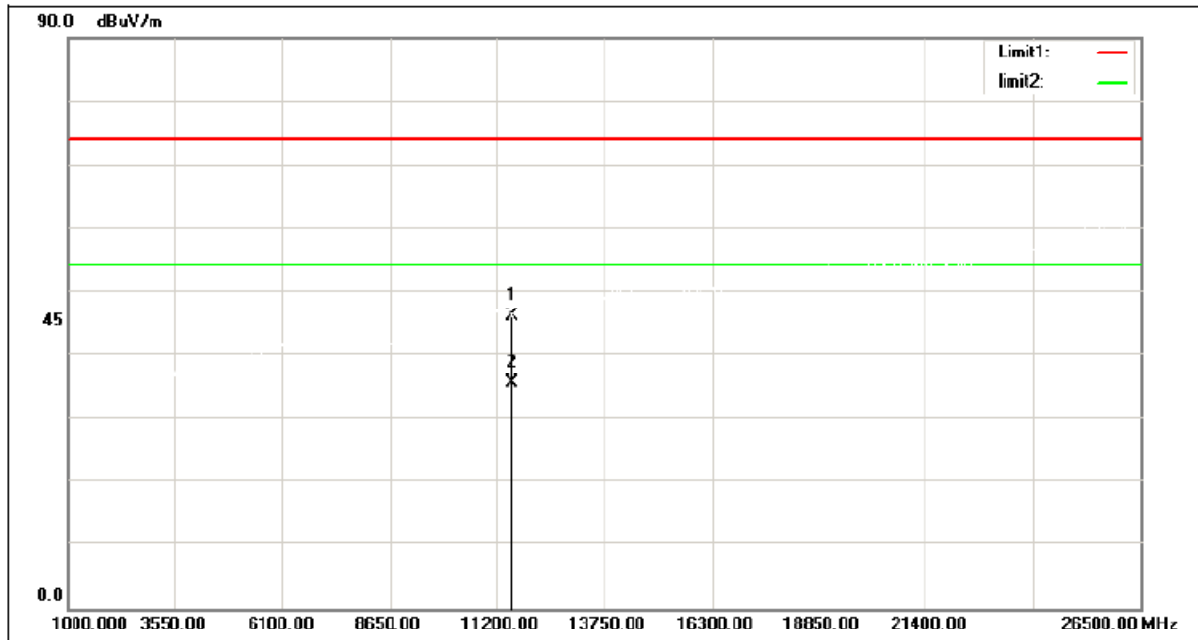
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.39	6.22	45.61	74.00	-28.39	peak
2	11570.000	28.07	6.22	34.29	54.00	19.71	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

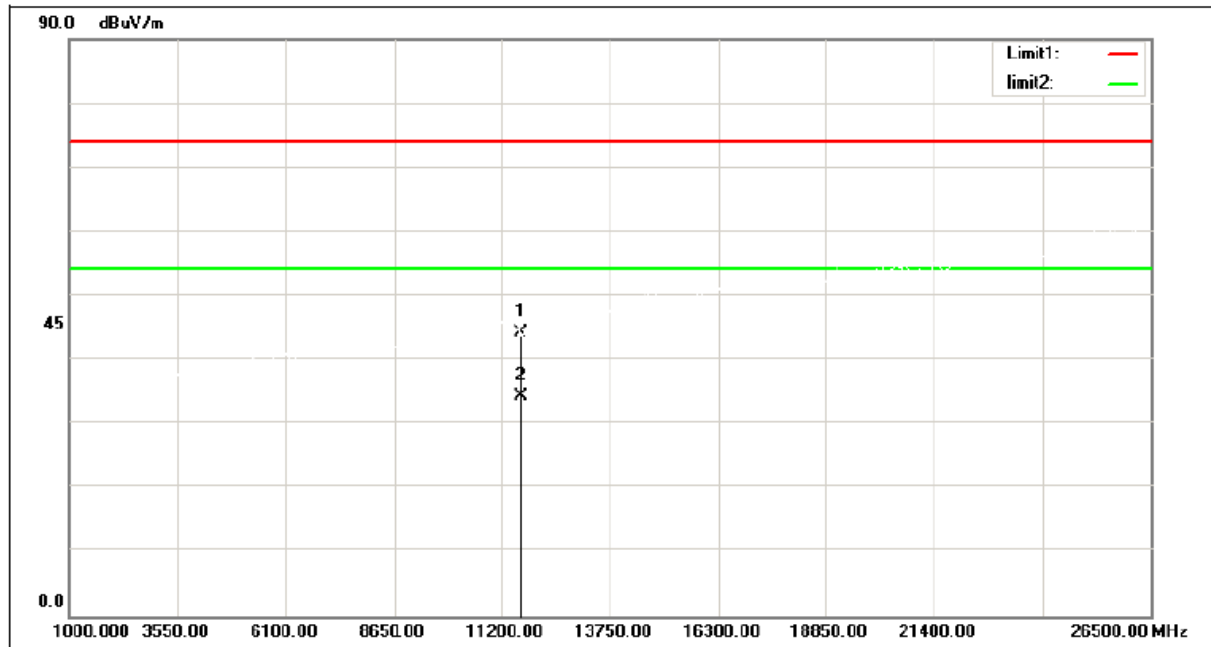
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	40.07	6.22	46.29	74.00	-27.71	peak
2	11570.000	29.52	6.22	35.74	54.00	-18.26	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

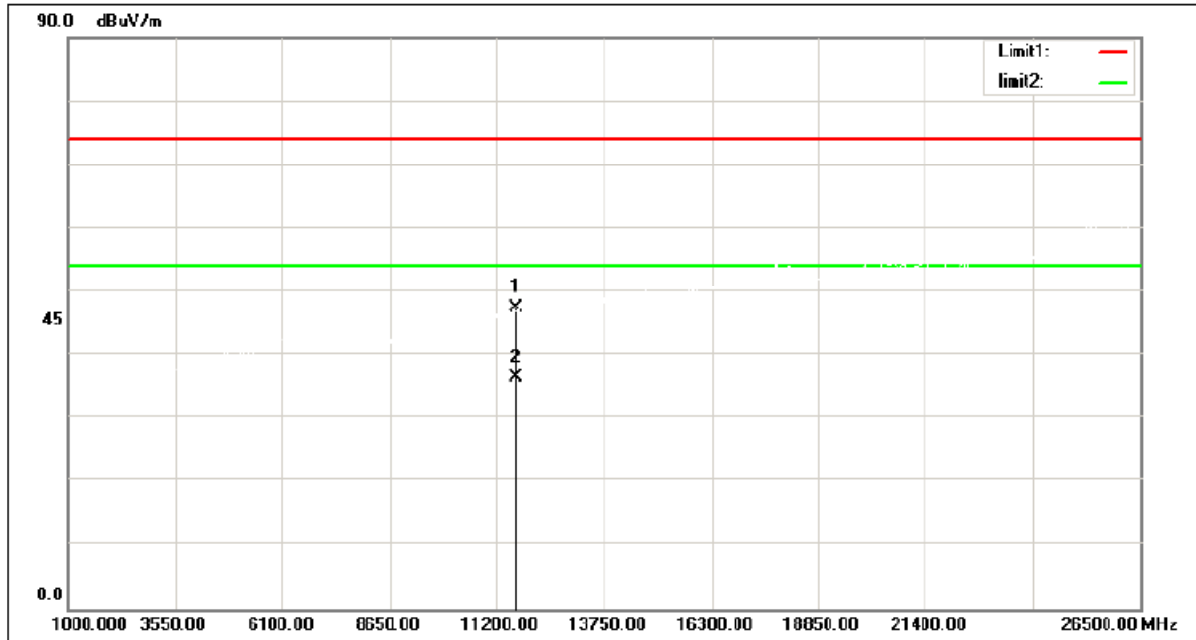
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	37.93	6.19	44.12	74.00	-29.88	peak
2	11650.000	28.02	6.19	34.21	54.00	-19.79	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

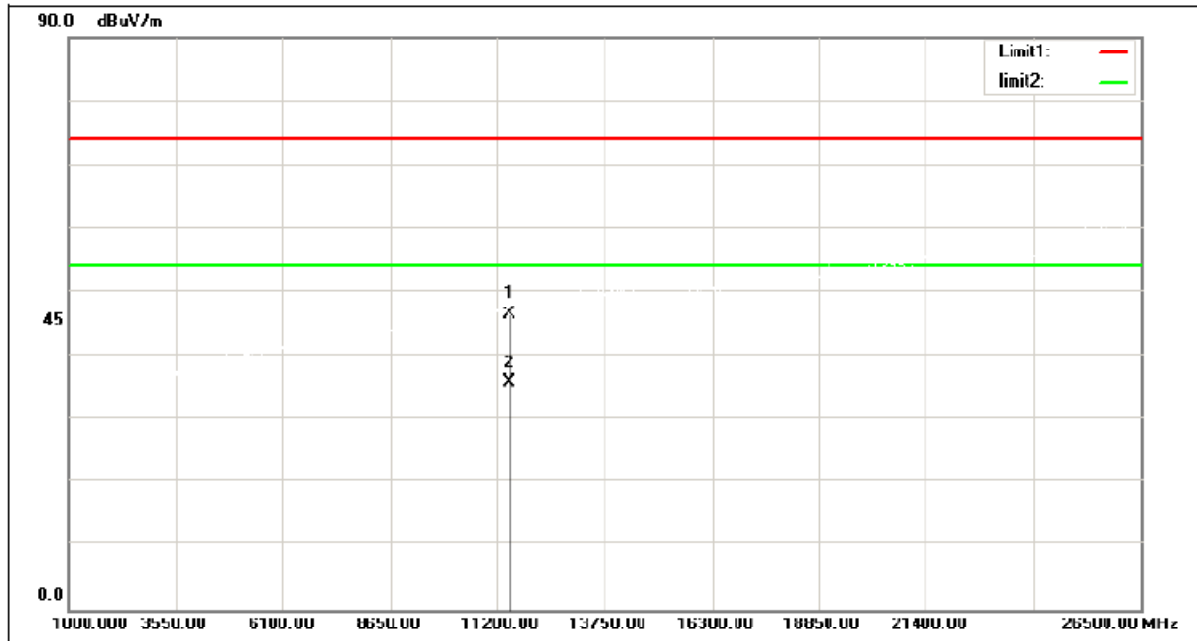
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	41.27	6.19	47.46	74.00	-26.54	peak
2	11650.000	30.09	6.19	36.28	54.00	-17.72	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

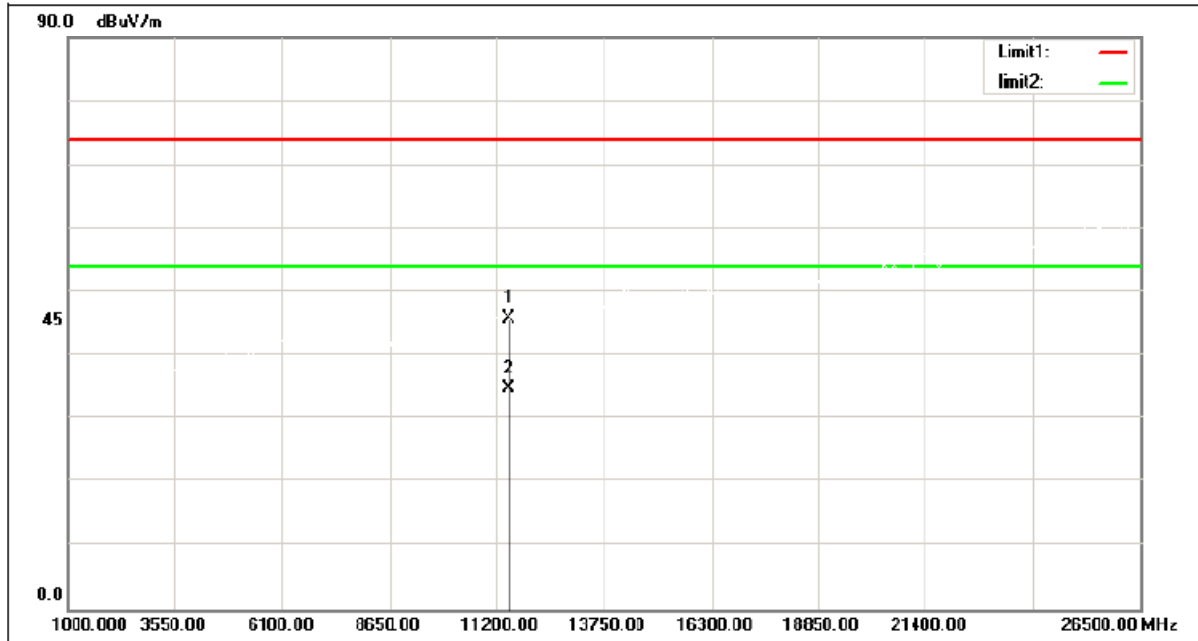
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.21	6.27	46.48	74.00	-27.52	peak
2	11490.000	29.45	6.27	35.72	54.00	-18.28	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

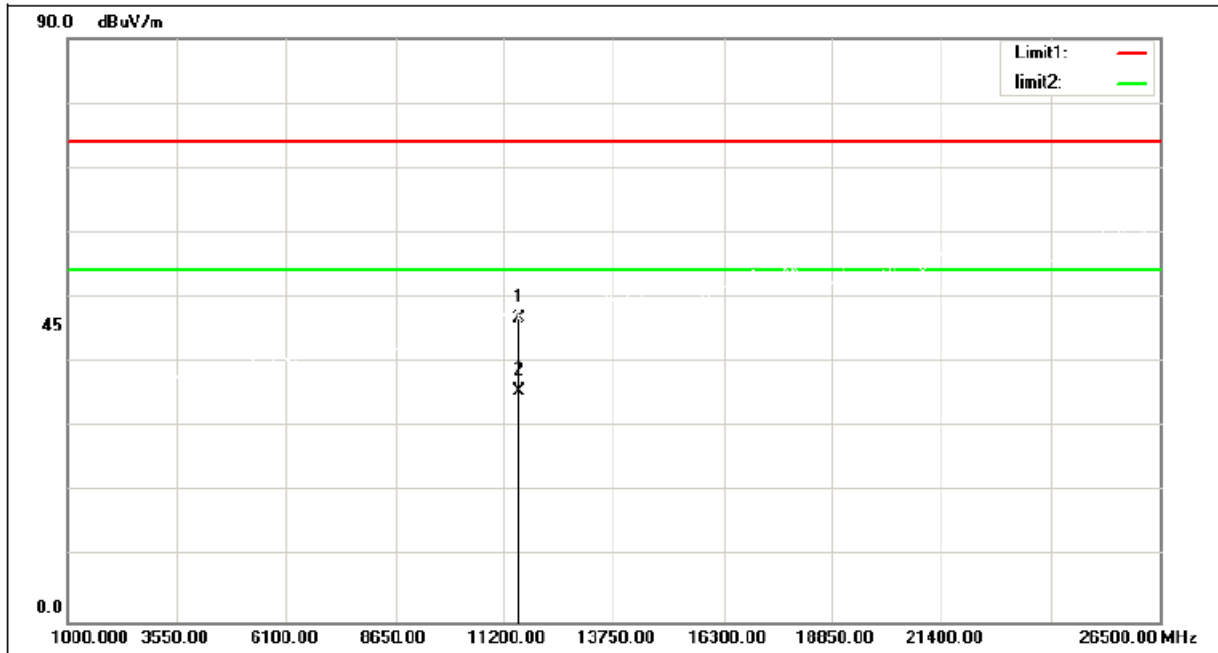
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	39.47	6.27	45.74	74.00	-28.26	peak
2	11490.000	28.57	6.27	34.84	54.00	-19.16	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz

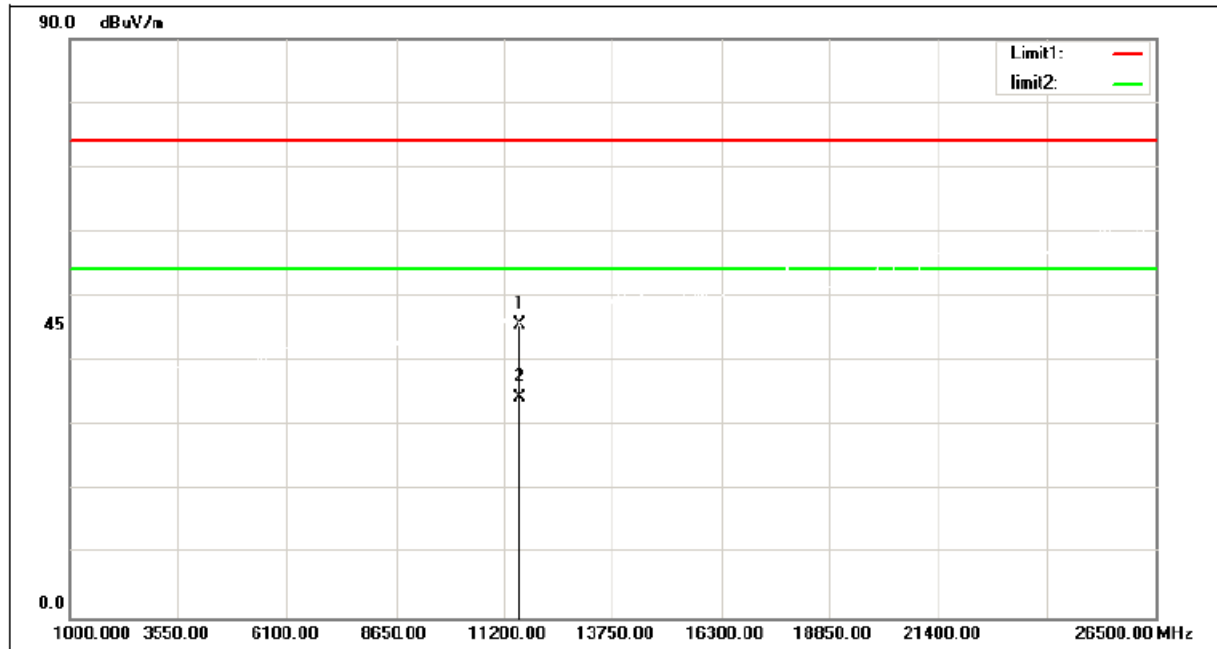
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	40.57	6.22	46.79	74.00	-27.21	peak
2	11570.000	29.26	6.22	35.48	54.00	-18.52	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz

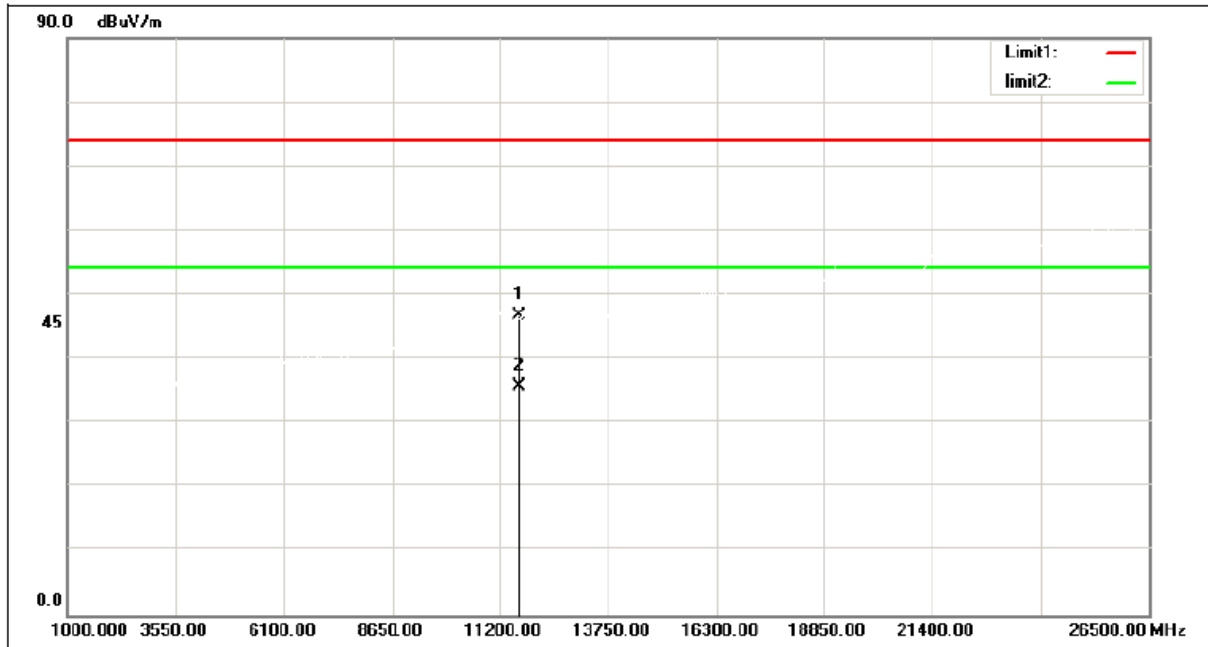
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.39	6.22	45.61	74.00	-28.39	peak
2	11570.000	28.07	6.22	34.29	54.00	-19.71	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

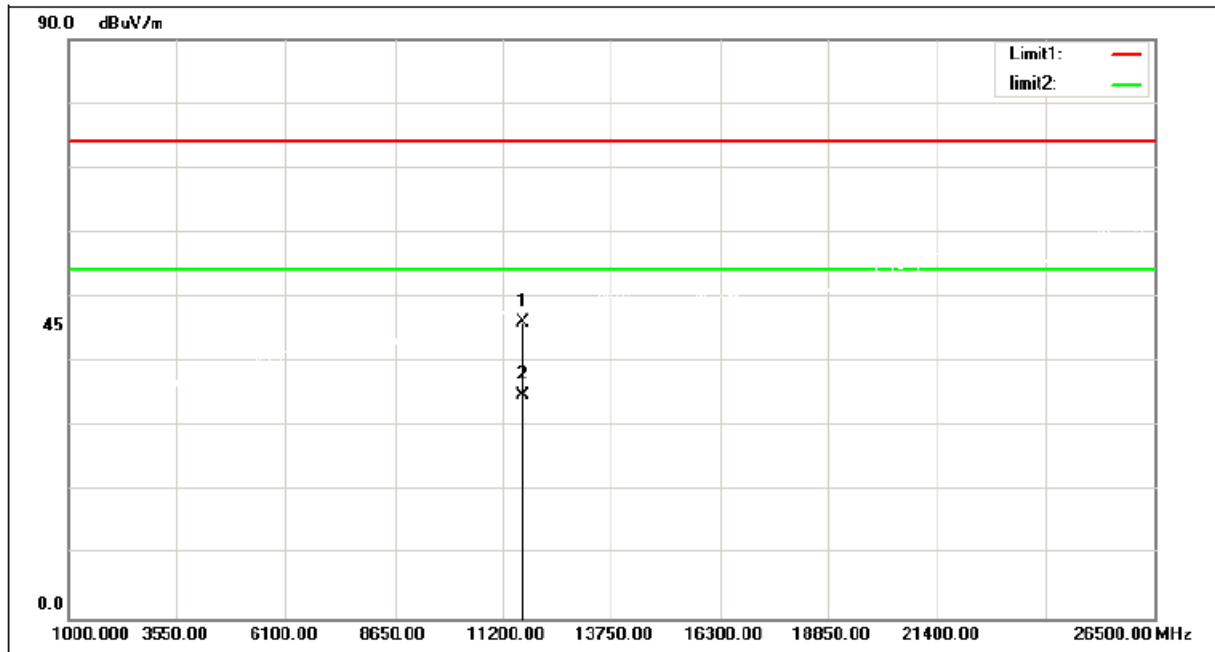
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	40.43	6.19	46.62	74.00	-27.38	peak
2	11650.000	29.55	6.19	35.74	54.00	-18.26	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

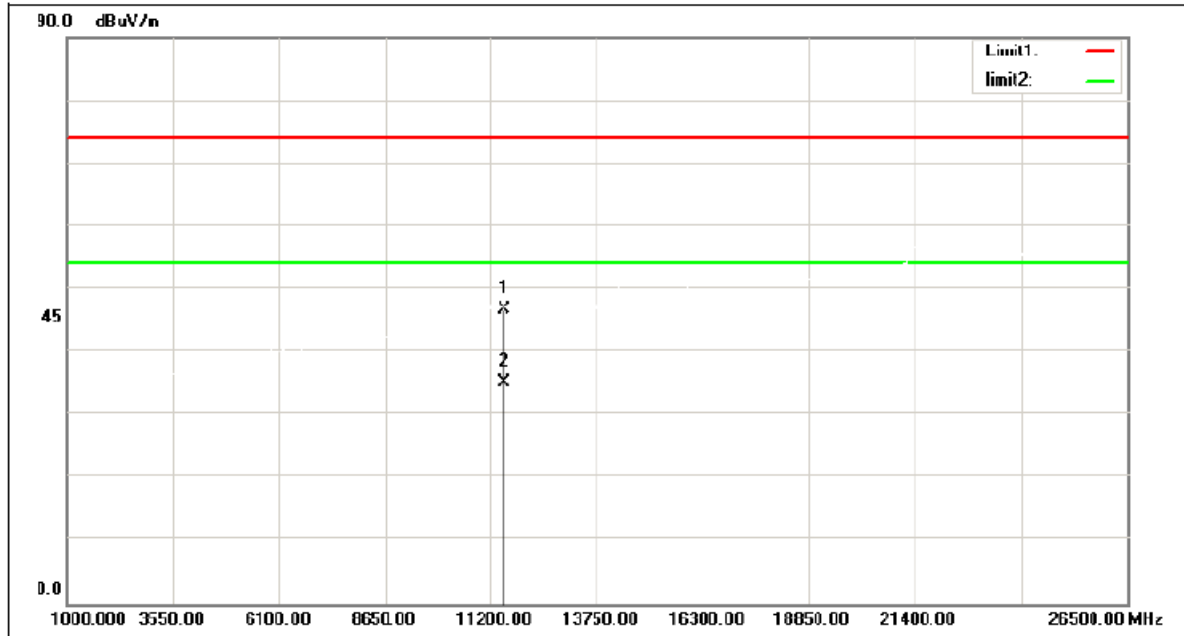
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.77	6.19	45.96	74.00	-28.04	peak
2	11650.000	28.56	6.19	34.75	54.00	-19.25	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

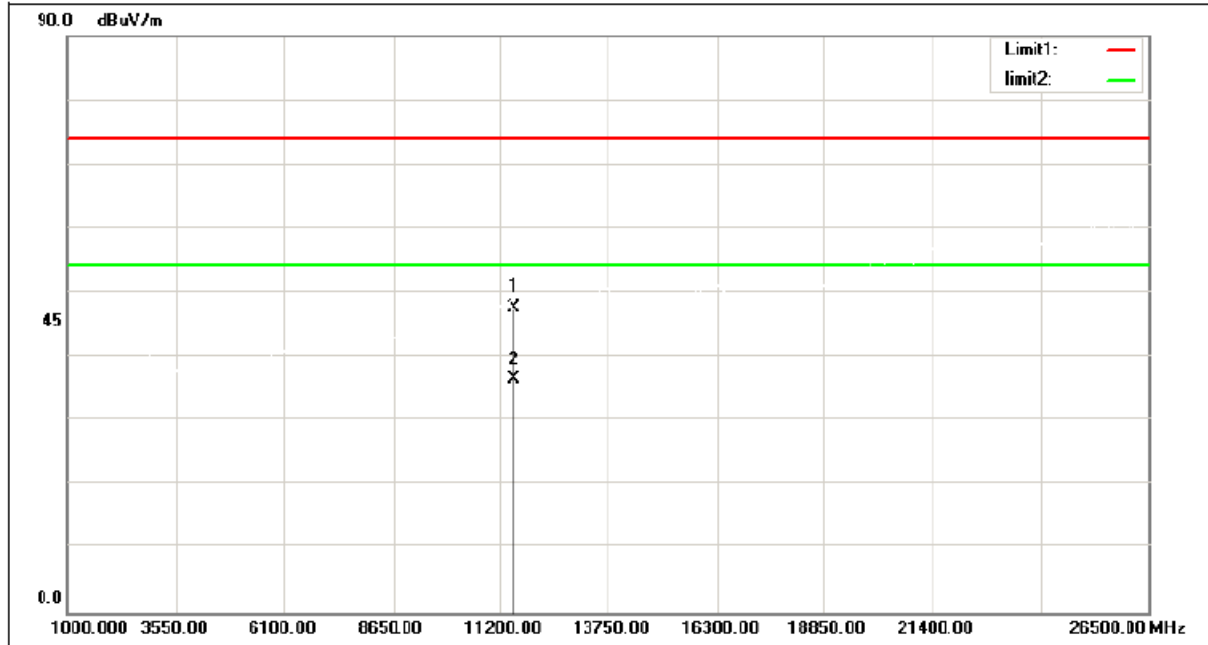
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	40.48	6.26	46.74	74.00	-27.26	peak
2	11510.000	29.01	6.26	35.27	54.00	-18.73	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

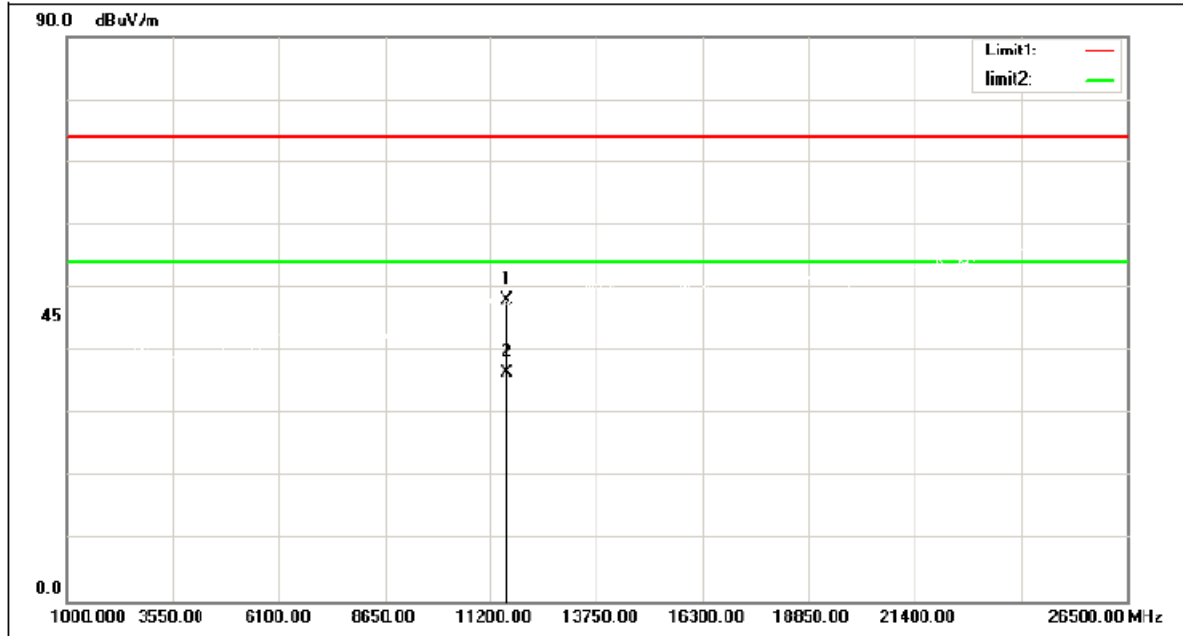
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	41.22	6.26	47.48	74.00	-26.52	peak
2	11510.000	30.03	6.26	36.29	54.00	-17.71	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

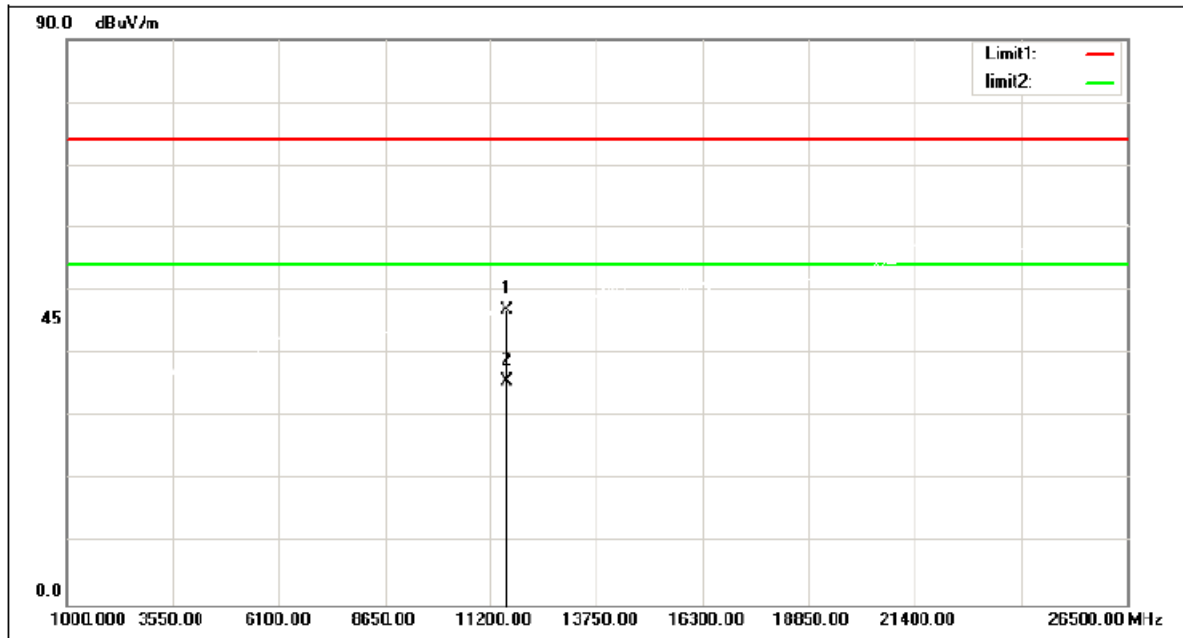
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	41.75	6.23	47.98	74.00	-26.02	peak
2	11590.000	30.24	6.23	36.47	54.00	-17.53	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

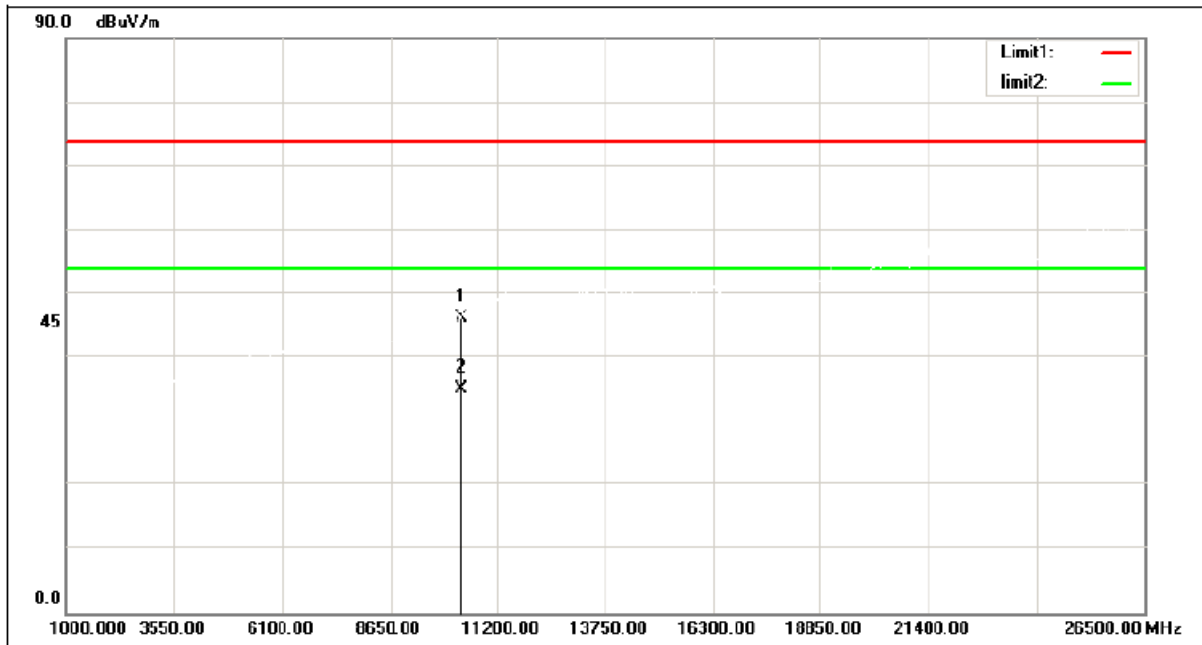
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	40.61	6.23	46.84	74.00	-27.16	peak
2	11590.000	29.48	6.23	35.71	54.00	-18.29	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

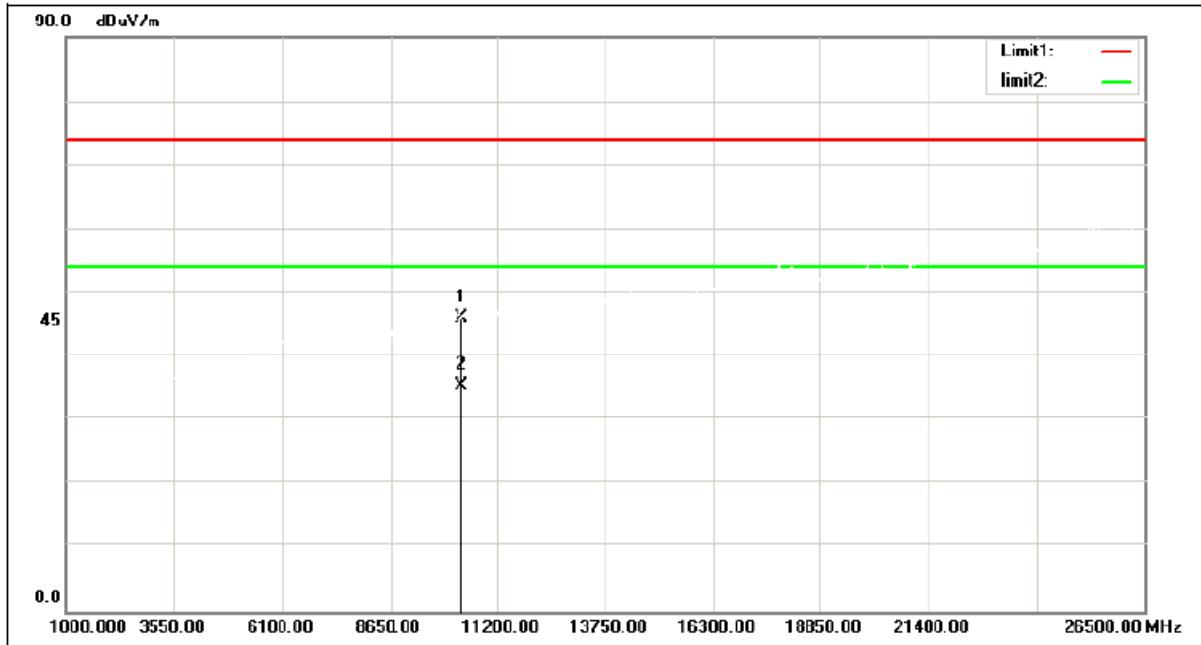
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	41.62	4.53	46.15	74.00	-27.85	peak
2	10360.000	30.65	4.53	35.18	54.00	-18.82	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

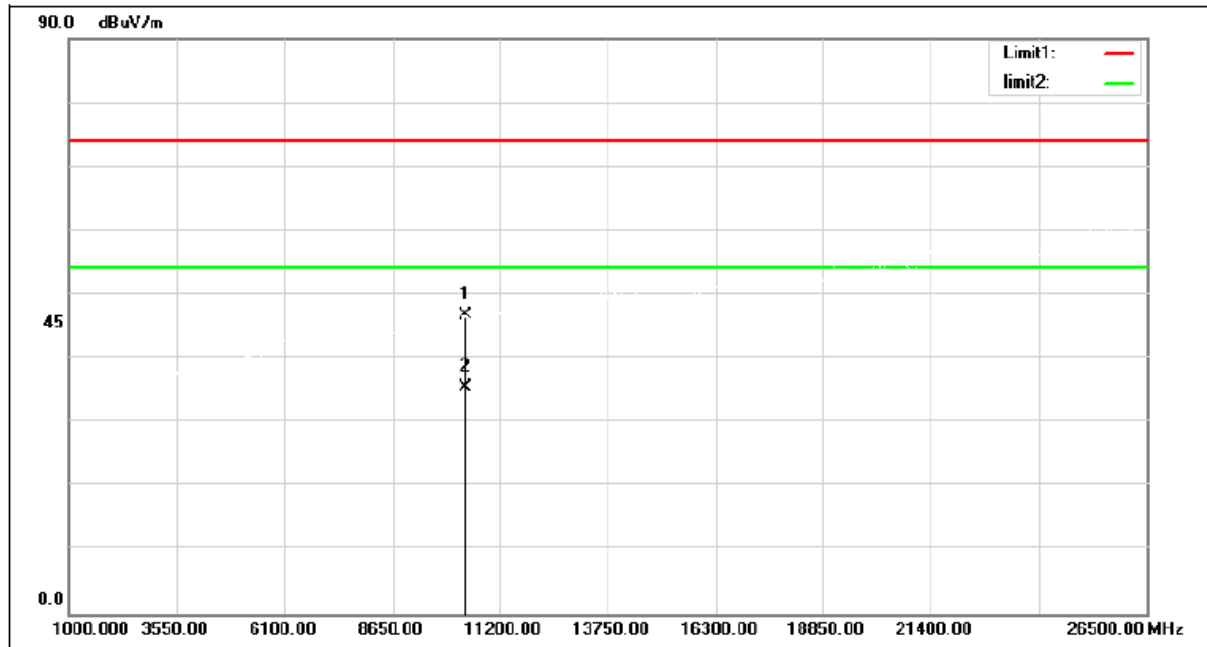
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	41.48	4.53	46.01	74.00	-27.99	peak
2	10360.000	30.95	4.53	35.48	54.00	-18.52	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

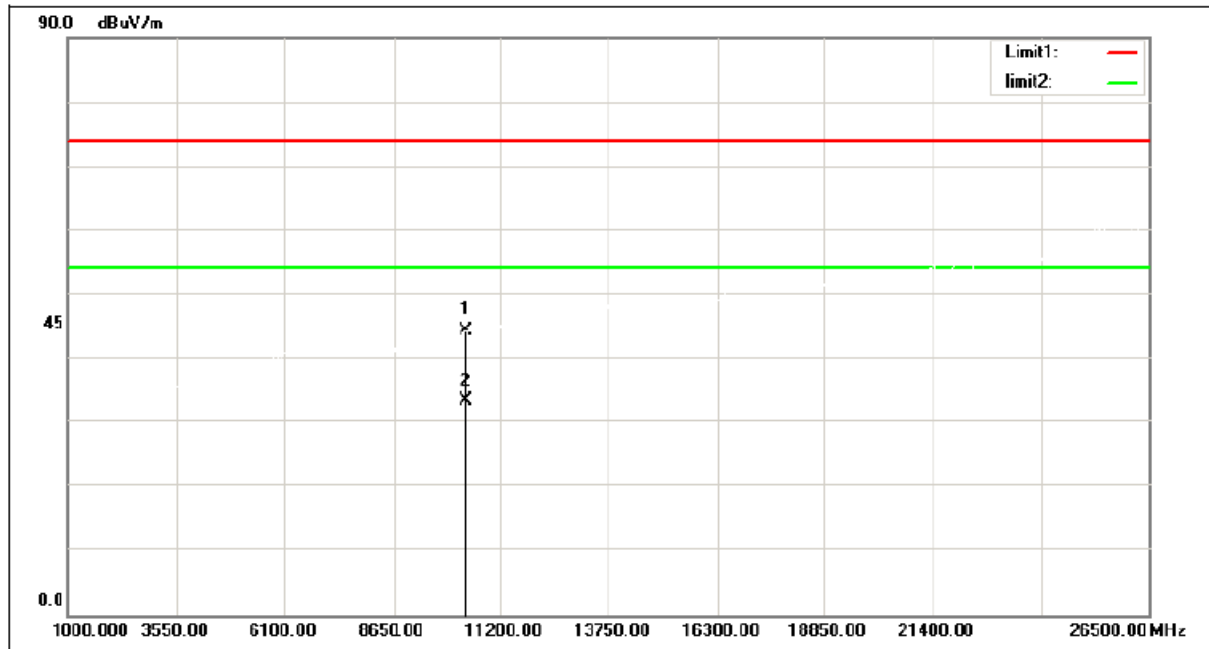
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	42.01	4.65	46.66	74.00	-27.34	peak
2	10400.000	30.71	4.65	35.36	54.00	-18.64	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

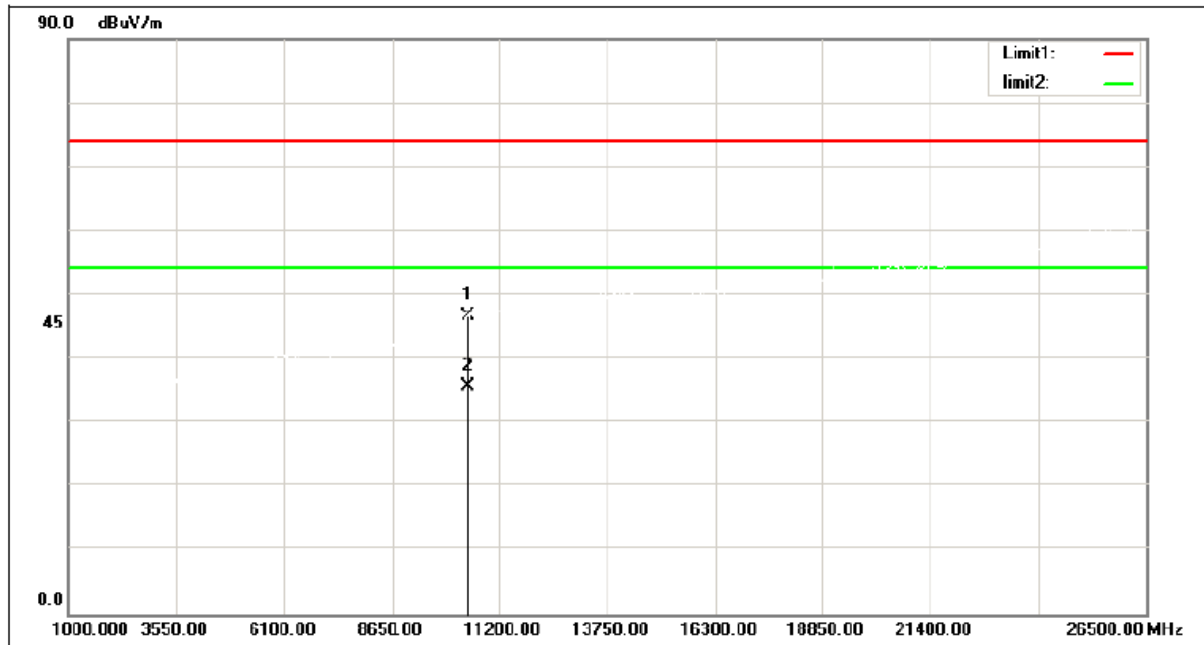
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	39.68	4.65	44.33	74.00	-29.67	peak
2	10400.000	28.84	4.65	33.49	54.00	-20.51	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

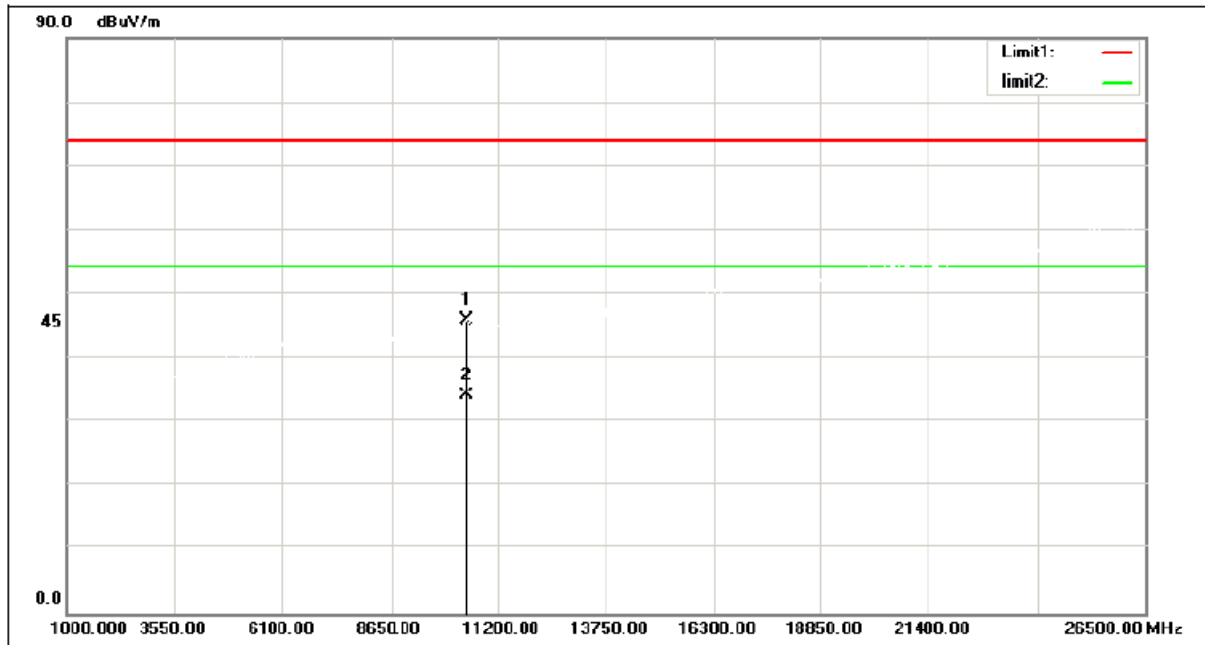
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	41.70	4.90	46.60	74.00	-27.40	peak
2	10480.000	30.68	4.90	35.58	54.00	-18.42	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

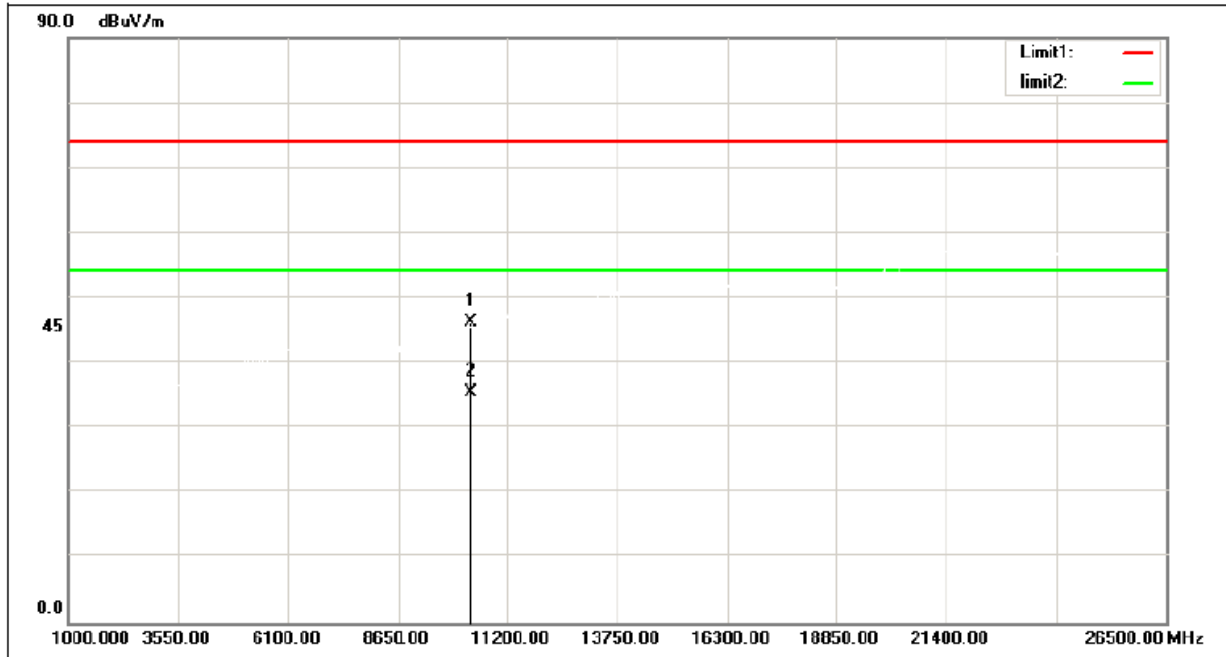
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	41.00	4.90	45.90	74.00	-28.10	peak
2	10480.000	29.08	4.90	33.98	54.00	-20.02	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

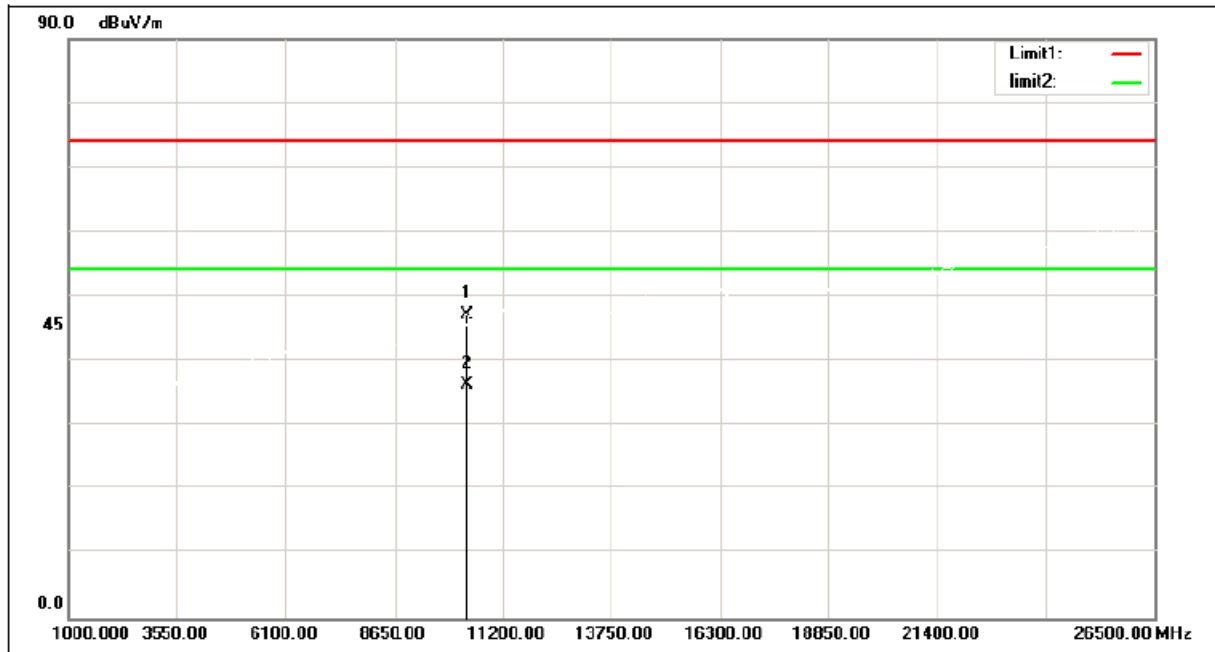
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	41.74	4.59	46.33	74.00	-27.67	peak
2	10380.000	30.90	4.59	35.49	54.00	-18.51	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

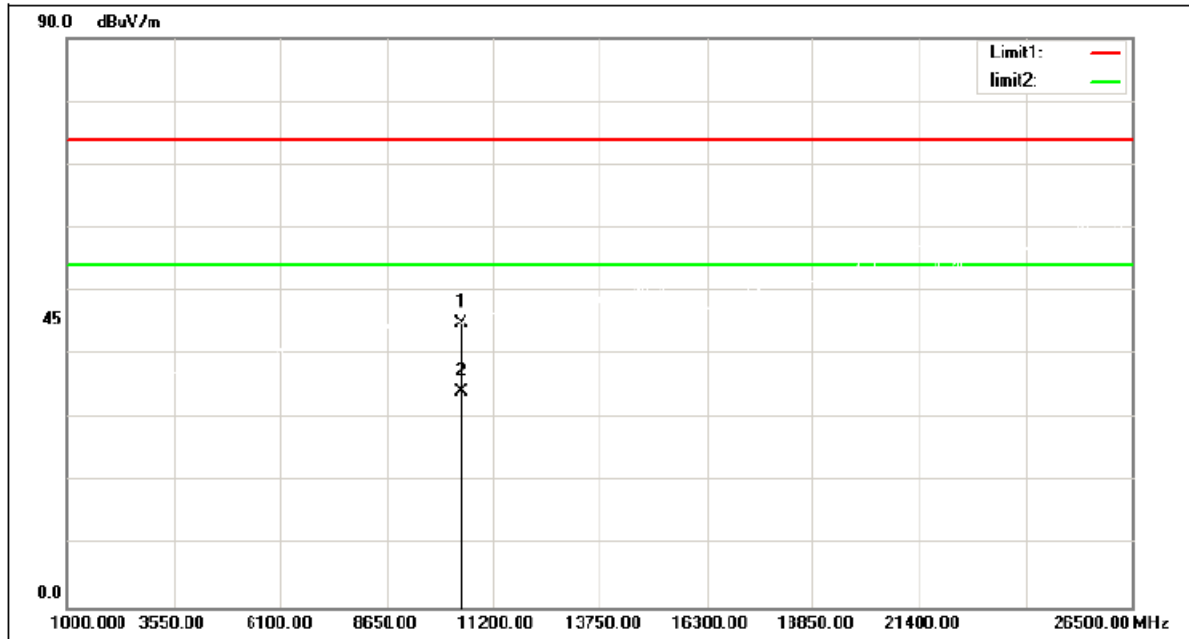
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	42.57	4.59	47.16	74.00	-26.84	peak
2	10380.000	31.65	4.59	36.24	54.00	-17.76	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

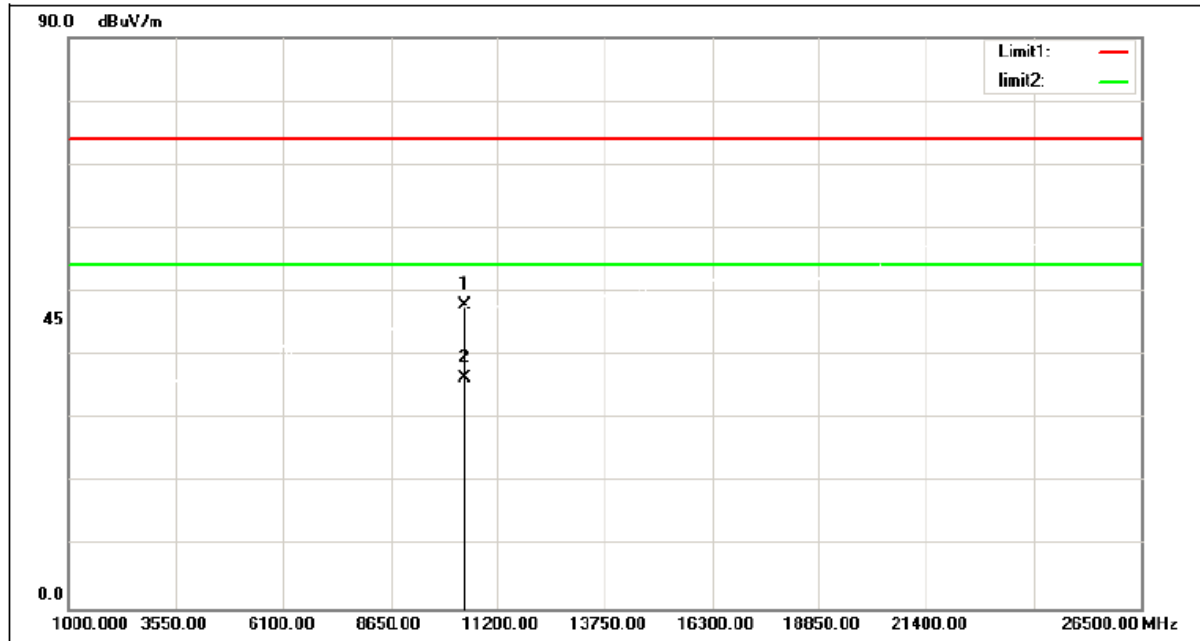
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10450.000	40.06	4.84	44.90	74.00	-29.10	peak
2	10450.000	29.28	4.84	34.12	54.00	-19.88	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

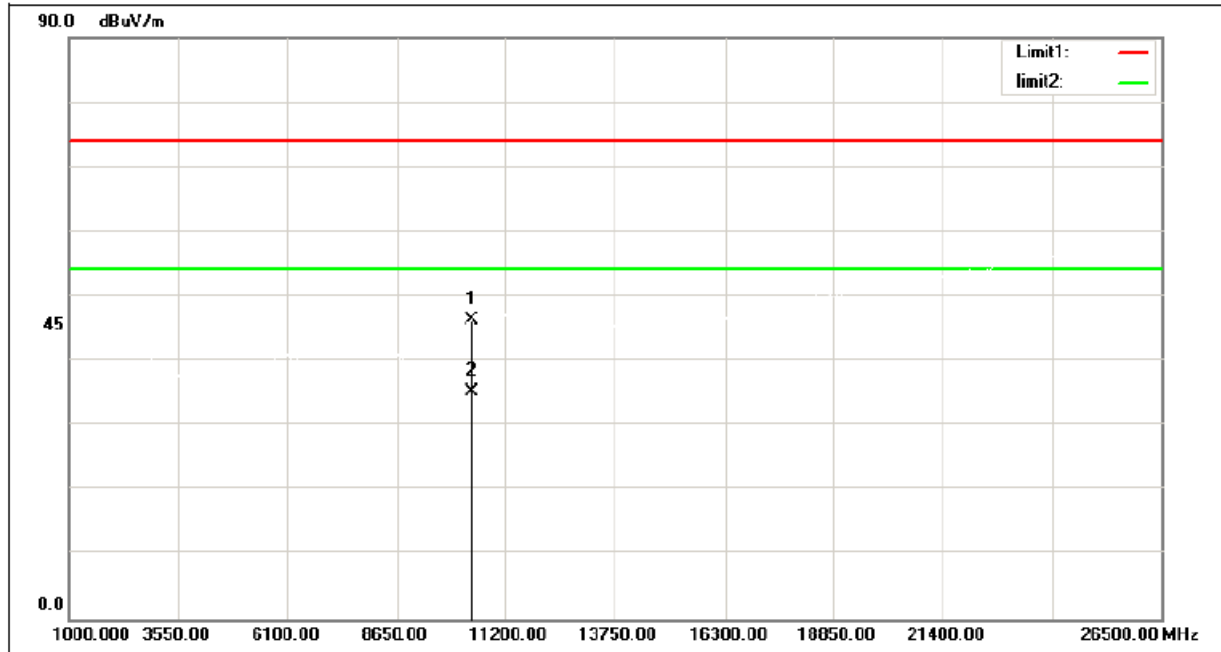
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	43.13	4.70	47.83	74.00	-26.17	peak
2	10420.000	31.54	4.70	36.24	54.00	-17.76	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

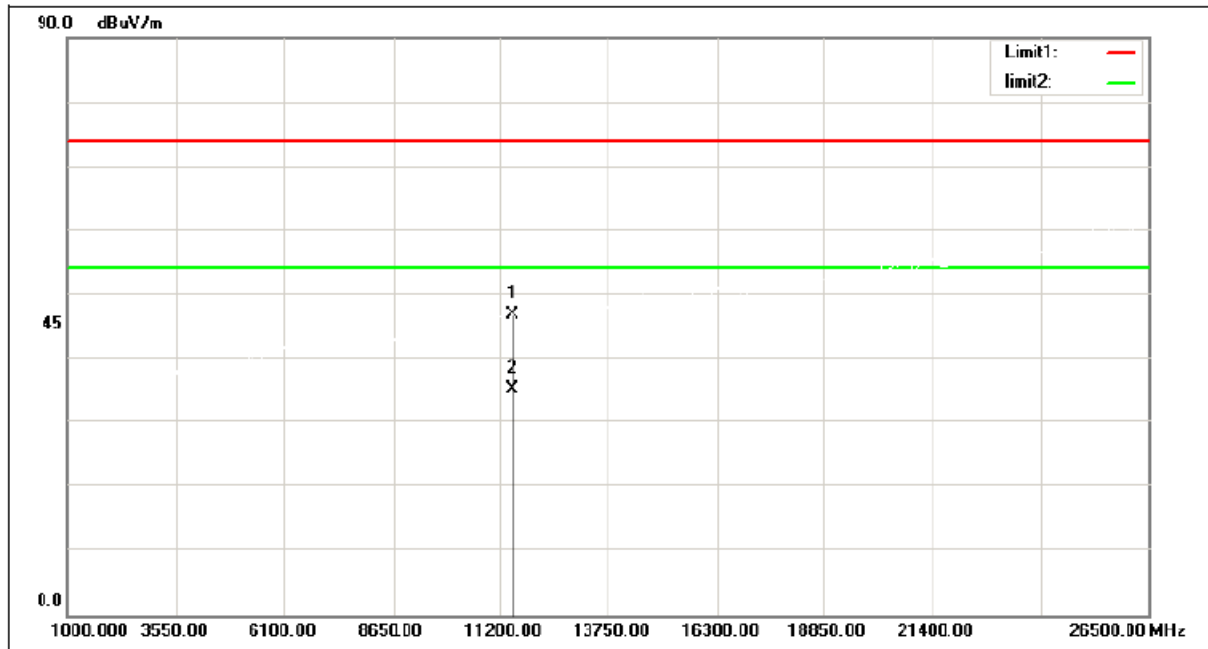
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	41.46	4.70	46.16	74.00	-27.84	peak
2	10420.000	30.57	4.70	35.27	54.00	-18.73	AVG

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

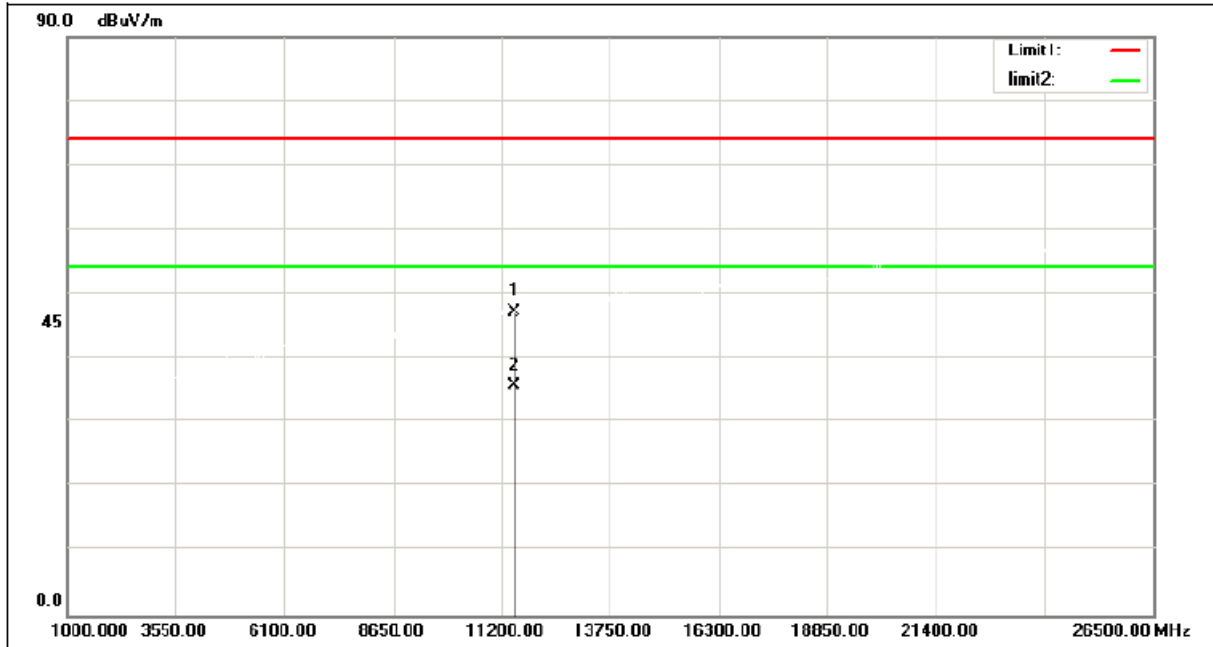
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.71	6.27	46.98	74.00	-27.02	peak
2	11490.000	29.21	6.27	35.48	54.00	-18.52	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

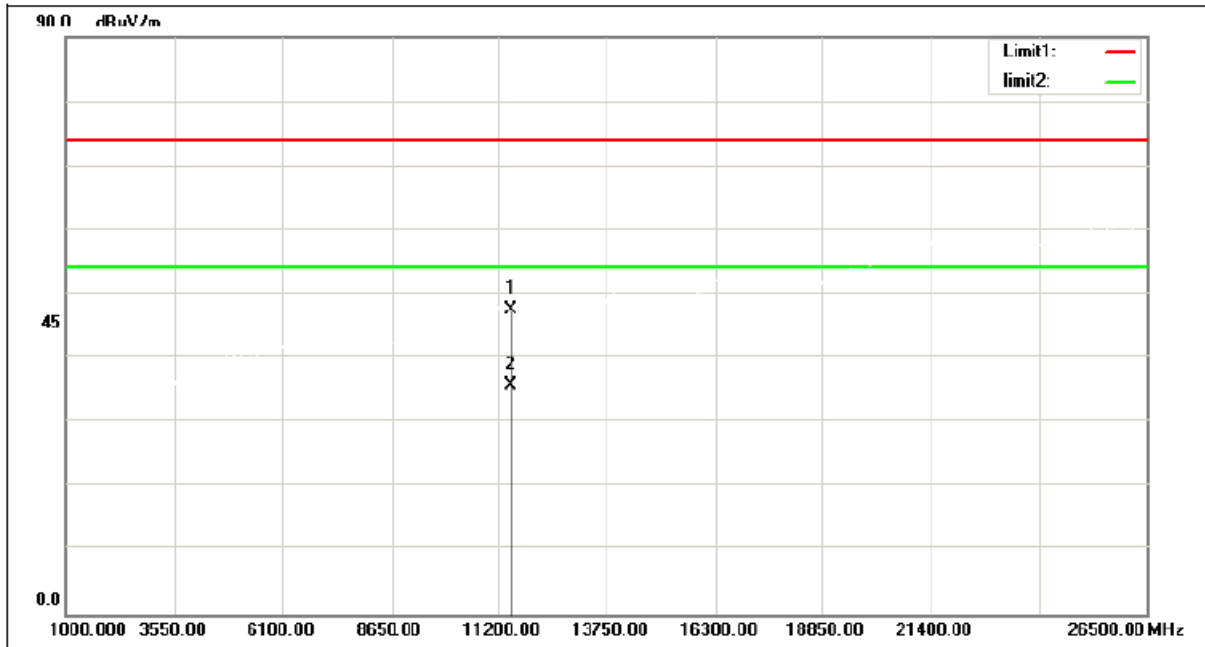
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	40.97	6.27	47.24	74.00	-26.76	peak
2	11490.000	29.34	6.27	35.61	54.00	-18.39	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

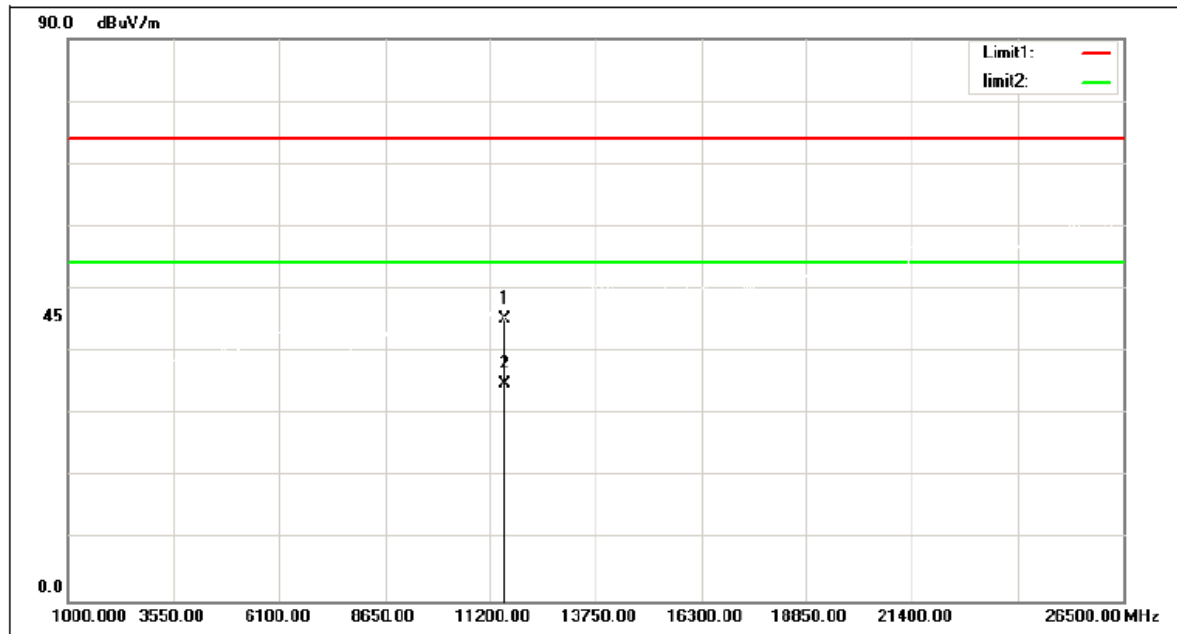
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	41.21	6.27	47.48	74.00	-26.52	peak
2	11490.000	29.48	6.27	35.75	54.00	-18.25	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

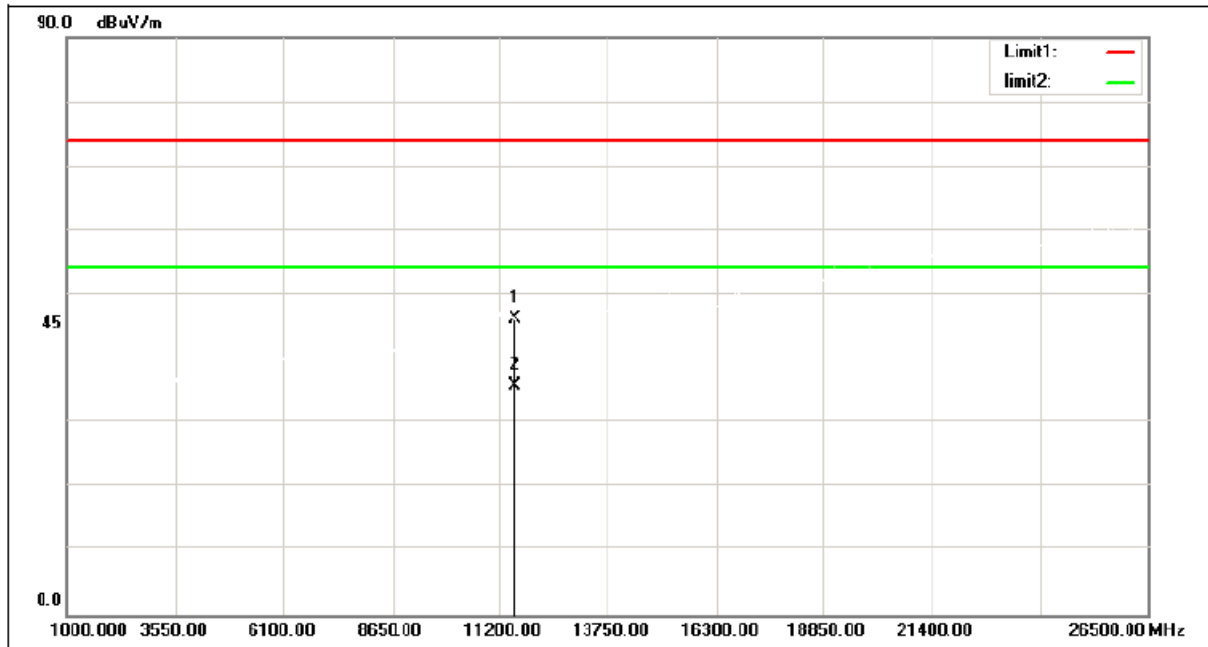
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	38.89	6.22	45.11	74.00	-28.89	peak
2	11570.000	28.65	6.22	34.87	54.00	-19.13	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

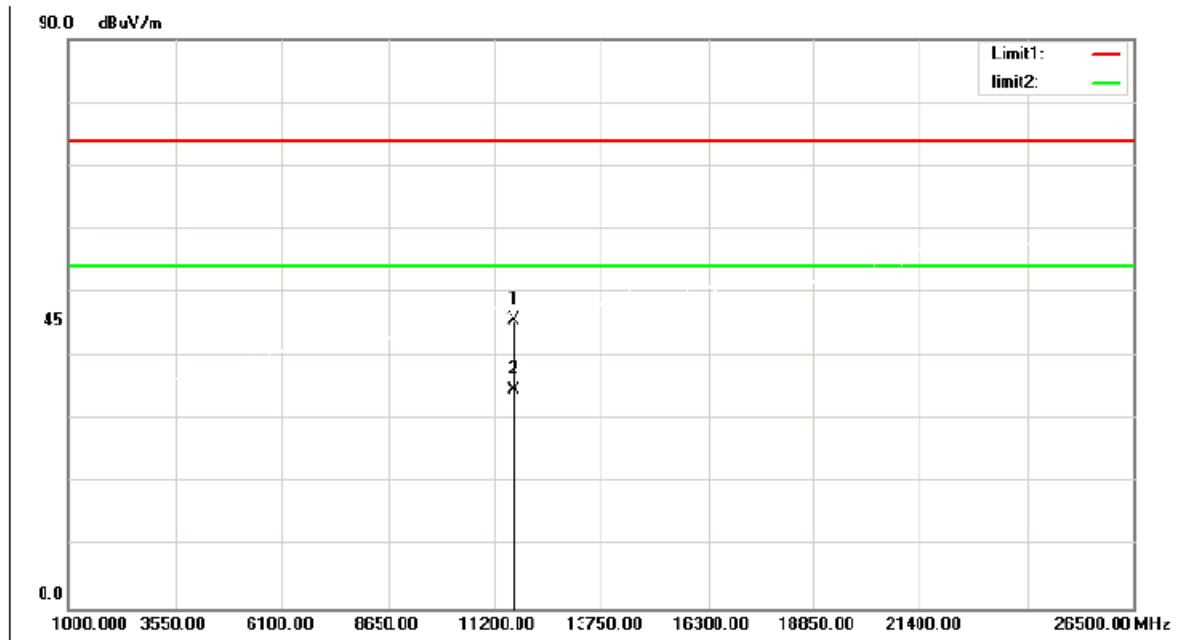
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	40.07	6.22	46.29	74.00	-27.71	peak
2	11570.000	29.52	6.22	35.74	54.00	-18.26	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

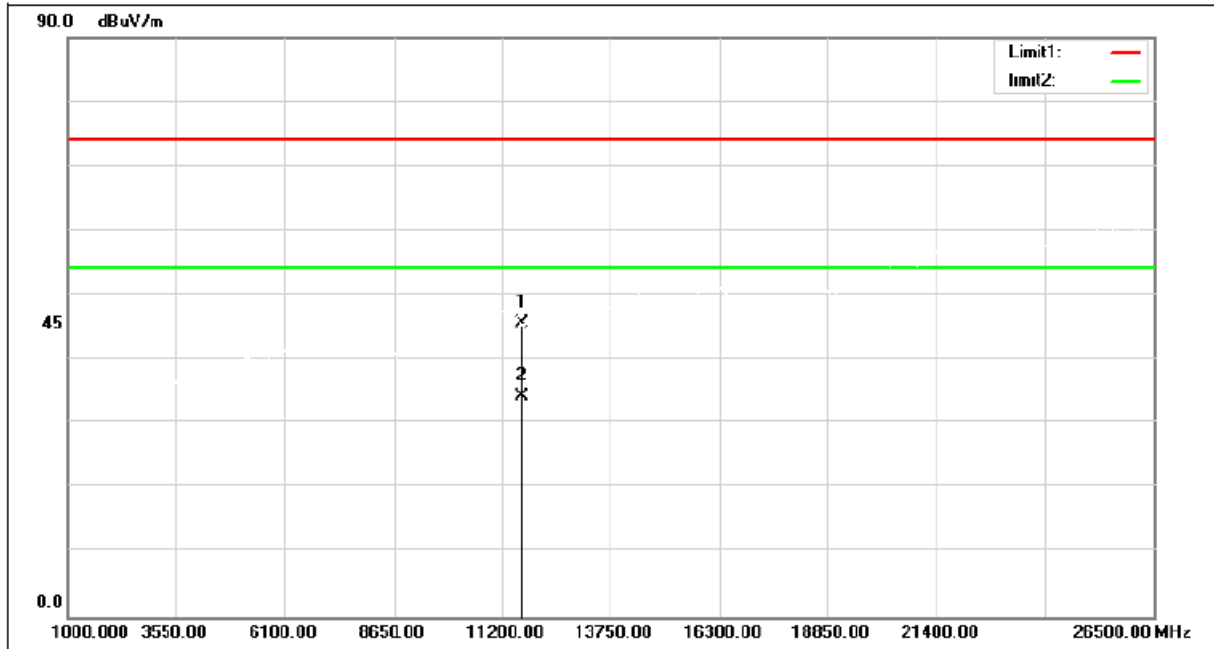
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.43	6.19	45.62	74.00	-28.38	peak
2	11650.000	28.38	6.19	34.57	54.00	-19.43	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

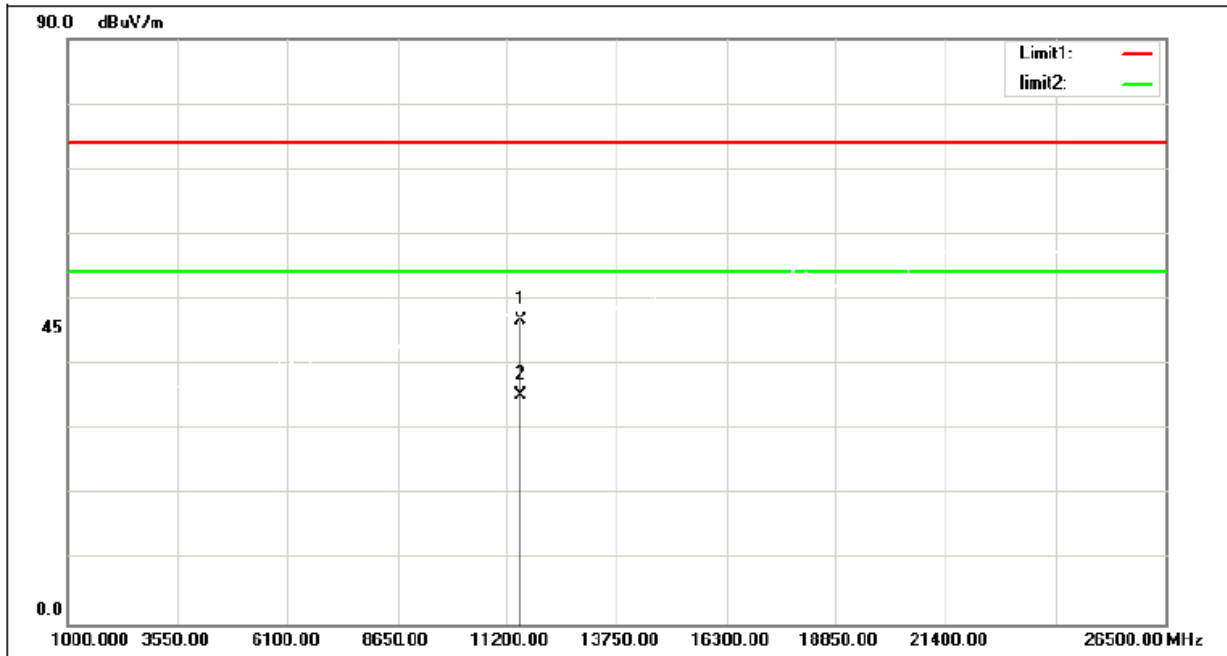
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	39.43	6.19	45.62	74.00	-28.38	peak
2	11650.000	28.08	6.19	34.27	54.00	-19.73	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

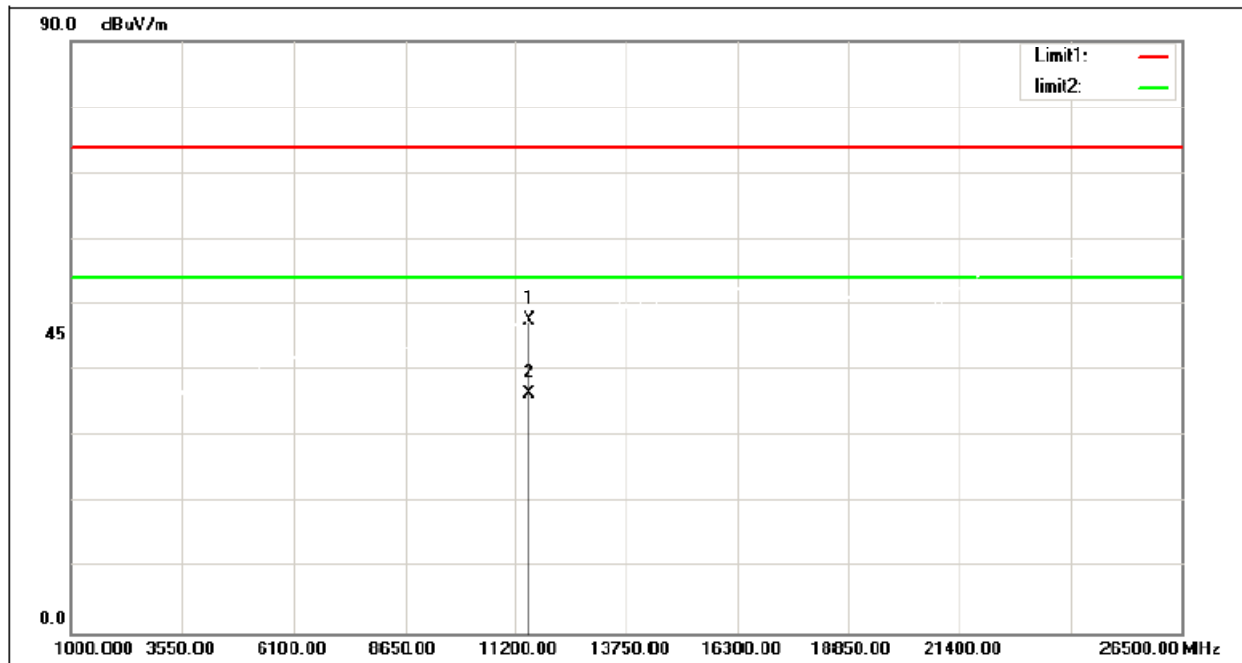
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	40.48	6.26	46.74	74.00	-27.26	peak
2	11510.000	29.00	6.26	35.26	54.00	-18.74	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

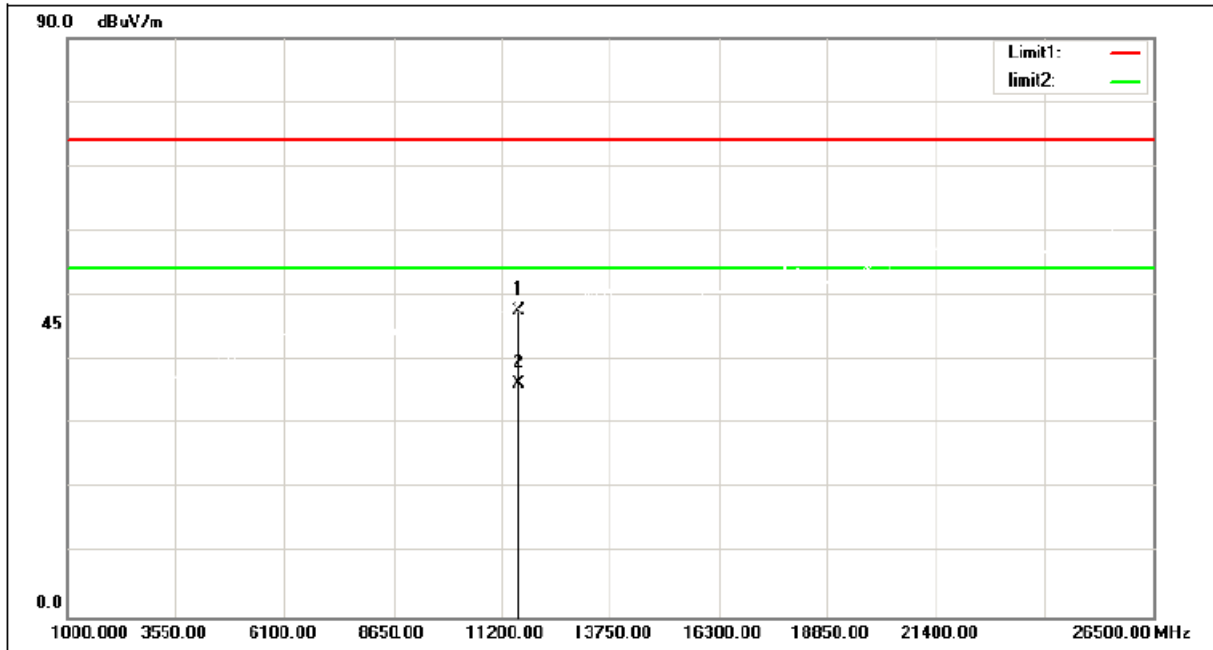
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	41.22	6.26	47.48	74.00	-26.52	peak
2	11510.000	30.02	6.26	36.28	54.00	-17.72	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

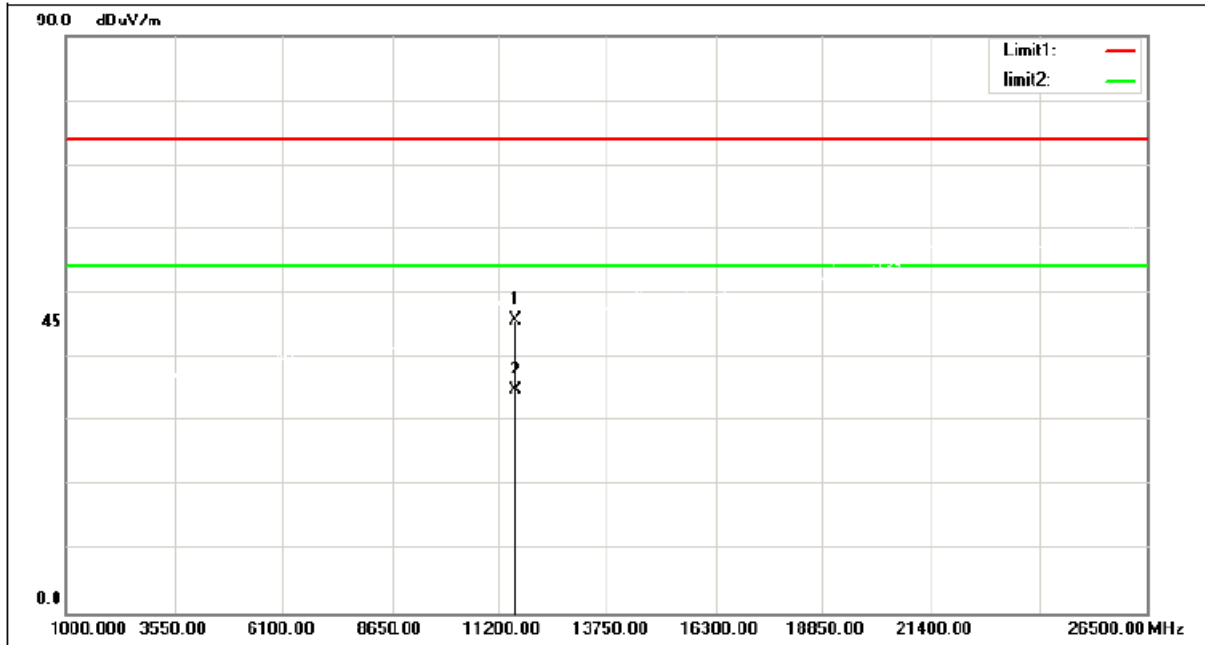
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	41.25	6.23	47.48	74.00	-26.52	peak
2	11590.000	30.01	6.23	36.24	54.00	-17.76	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

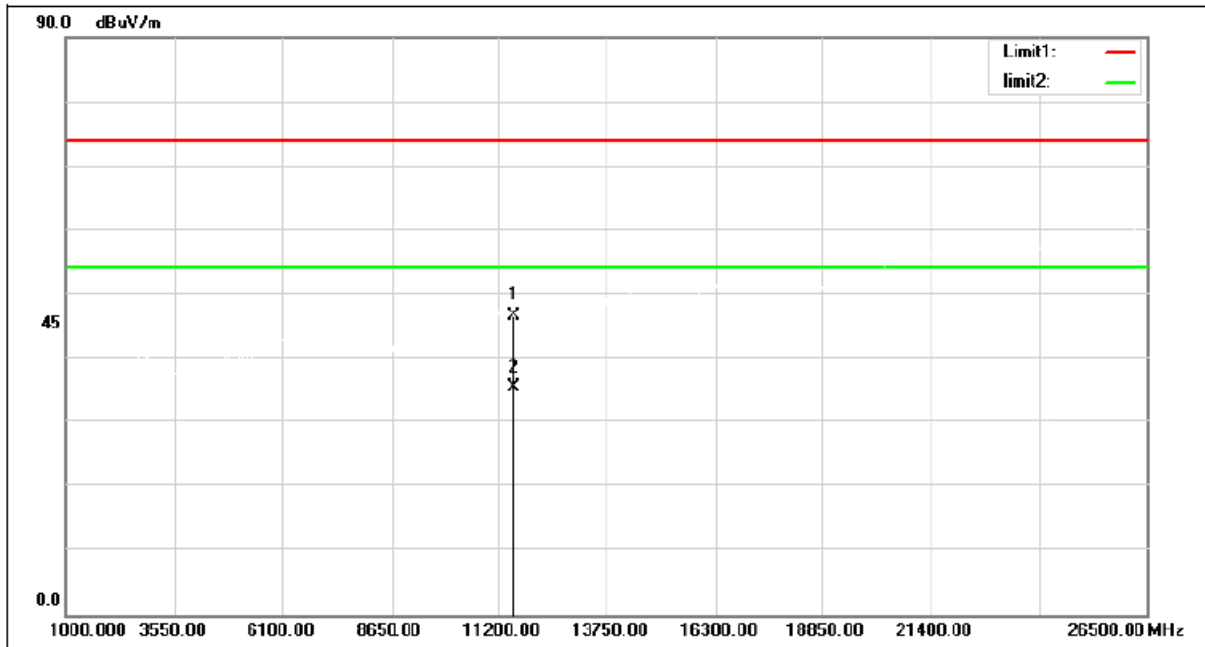
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	39.61	6.23	45.84	74.00	-28.16	peak
2	11590.000	28.64	6.23	34.87	54.00	-19.13	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

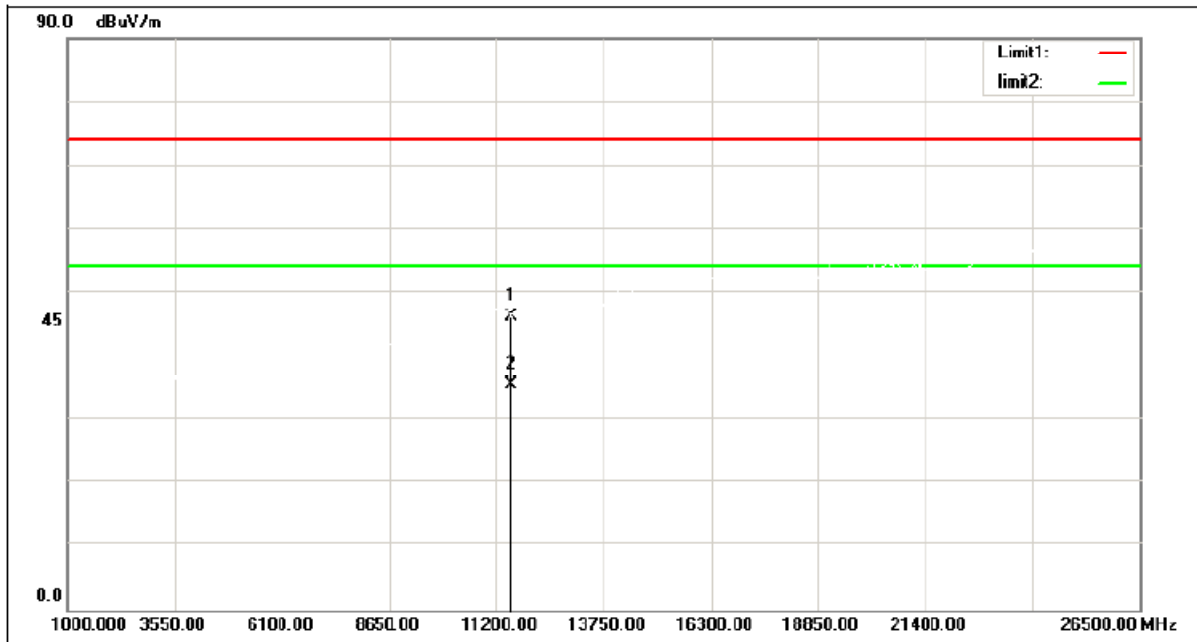
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	40.37	6.24	46.61	74.00	-27.39	peak
2	11550.000	29.19	6.24	35.43	54.00	-18.57	AVG

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	40.05	6.24	46.29	74.00	27.71	peak
2	11550.000	29.25	6.24	35.49	54.00	-18.51	AVG

6BANDWIDTH TEST

6.1LIMIT

FCC Part15, Subpart E (15.407) RSS-Gen and RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a) 15.407(e) RSS-247 6.2.1.1 RSS-247 6.2.4.1	26 dB Bandwidth	-	5150-5250
	6dB Bandwidth	Minimum 500 kHz	5725-5850

6.2TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- Spectrum Setting:
For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz) 1 MHz (Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz) 3 MHz (Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

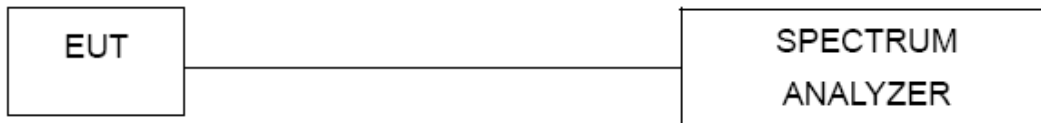
For UNII-3:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- Measured the spectrum width with power higher than 26dB / 6dB below carrier.

6.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

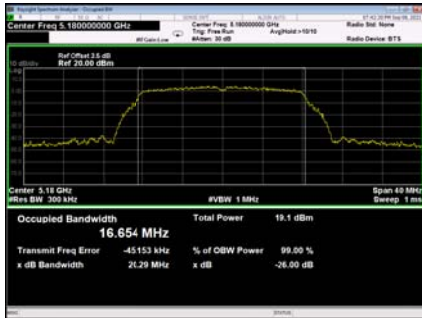
6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

UNII-1_TX A Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.29	16.654
40	5200	20.47	16.638
48	5240	20.30	16.617

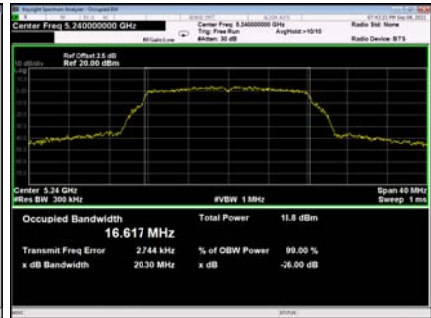
CH36



CH40

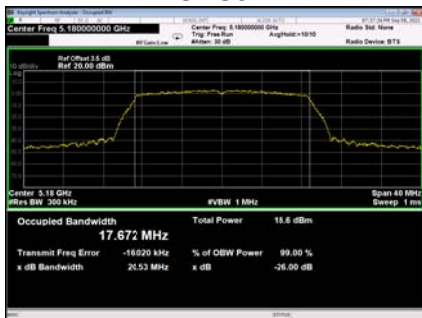


CH48

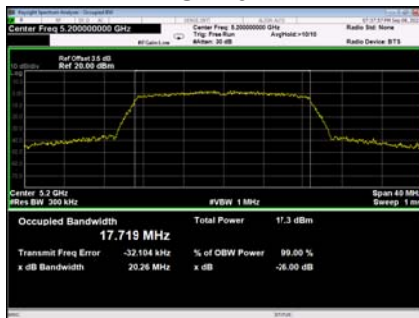


UNII-1_TX N (HT20) Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.53	17.672
40	5200	20.26	17.719
48	5240	20.36	17.649

CH36



CH40



CH48



UNII-1_TX N (HT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	41.23	36.275
46	5230	41.41	36.138

CH38



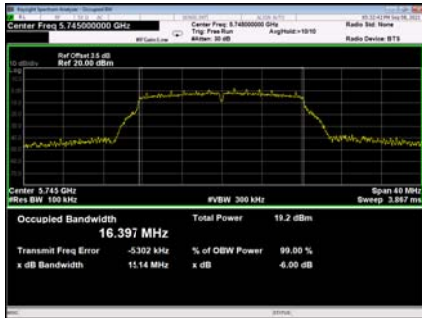
CH46



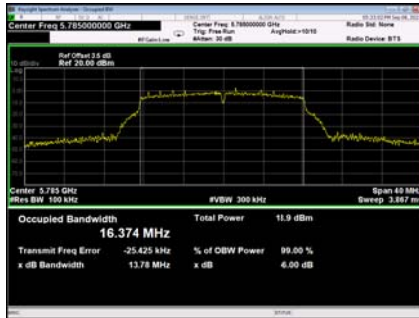
UNII-3 TX A Mode					
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	15.14	16.654	500	PASS
157	5785	13.78	16.650	500	PASS
165	5825	15.11	16.578	500	PASS

6 dB Bandwidth

CH149



CH157

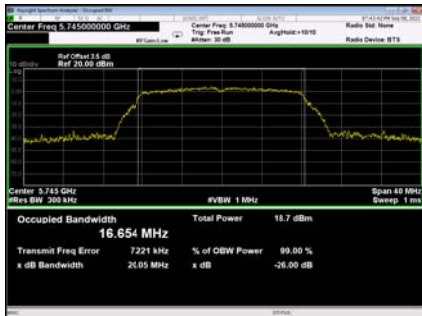


CH165



99% Emission Bandwidth

CH149



CH157

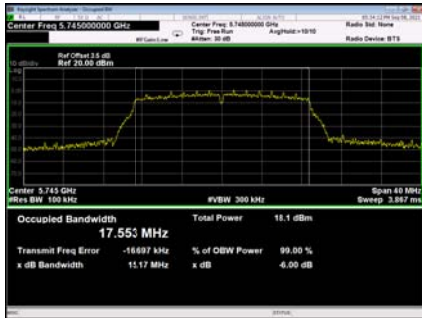


CH165

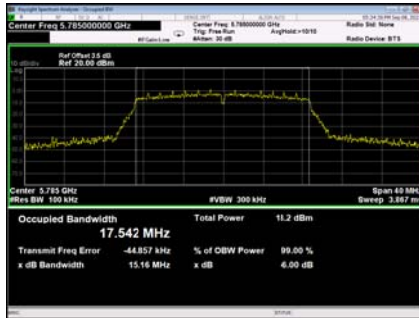


UNII-3_TX N (HT20) Mode					
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	15.17	17.654	500	PASS
157	5785	15.16	17.701	500	PASS
165	5825	15.13	17.640	500	PASS

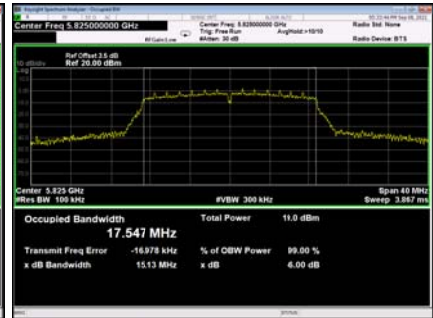
CH149



6 dB Bandwidth
CH157

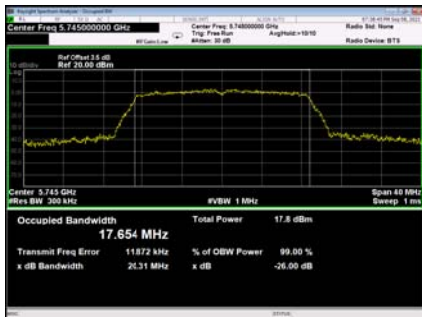


CH165

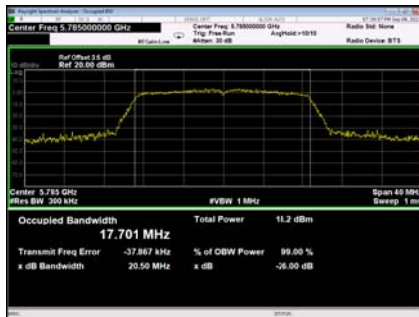


99% Emission Bandwidth
CH157

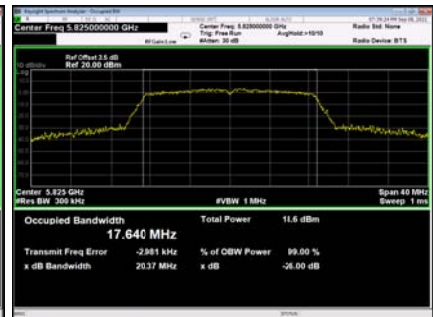
CH149



CH157



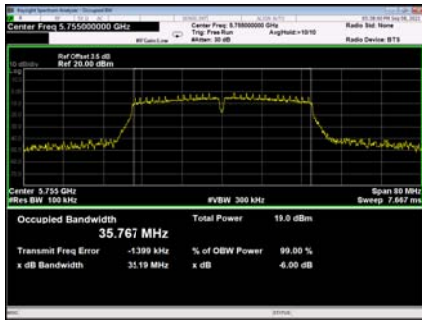
CH165



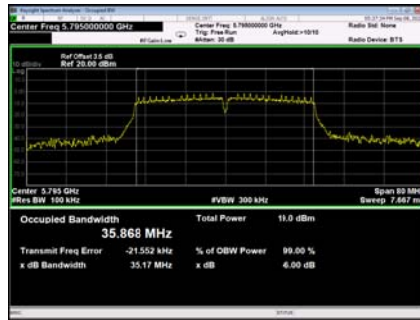
UNII-3_TX N (HT40) Mode					
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
151	5755	35.19	36.275	500	PASS
159	5795	35.17	36.138	500	PASS

6 dB Bandwidth

CH151

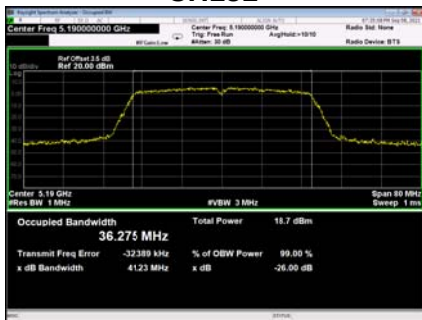


CH159



99% Emission Bandwidth

CH151



CH159



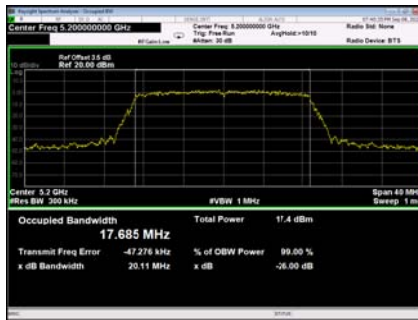
UNII-1_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.14	17.683
40	5200	20.11	17.685
48	5240	20.10	17.667

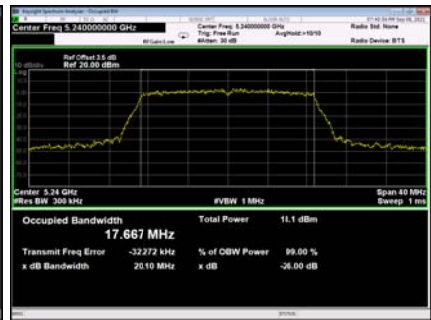
CH36



CH40



CH48



UNII-1_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	41.37	36.391
46	5230	41.11	36.258

CH38



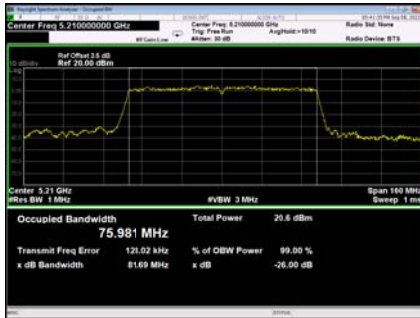
CH46



UNII-1_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	81.69	75.981

CH42

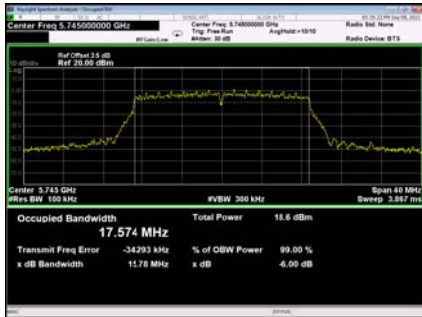


UNII-3_TX AC (VHT20) Mode

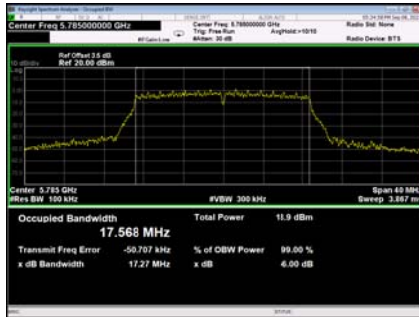
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	15.78	17.668	500	PASS
157	5785	17.27	17.698	500	PASS
165	5825	16.88	17.659	500	PASS

6 dB Bandwidth

CH149



CH157

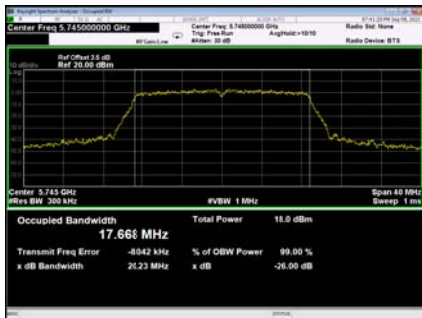


CH165



99% Emission Bandwidth

CH149



CH157



CH165



UNII-3_TX AC (VHT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
151	5755	35.23	36.366	500	PASS
159	5795	35.66	36.300	500	PASS

6 dB Bandwidth

CH151



CH159



99% Emission Bandwidth

CH151



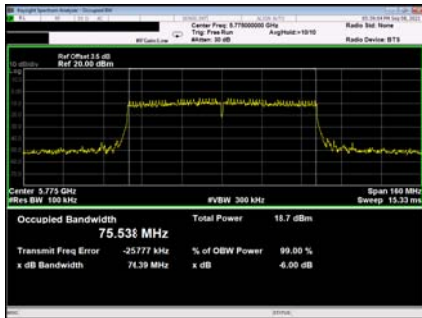
CH159



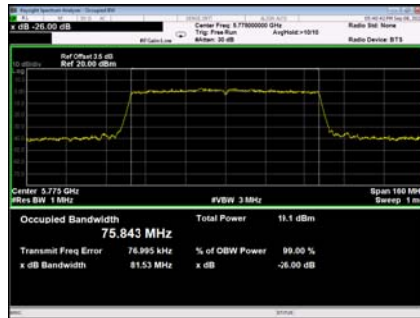
UNII-3_TX AC (VHT80) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
155	5775	76.39	75.843	500	PASS

**6 dB Bandwidth
CH155**



**99% Emission Bandwidth
CH155**



7 MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)&RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-247 6.2.1.1	EIRP Output Power	not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less	5150-5250
15.407(a)	Maximum Output Power	AP device: 1 Watt (30dBm) Client device: 250mW (24dBm)	5150-5250
15.407(a) RSS-247 6.2.4.1	Maximum Output Power	1 Watt (30dBm)	5725-5850

Note:

- 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.
- B is the 99% emission bandwidth in megahertz.

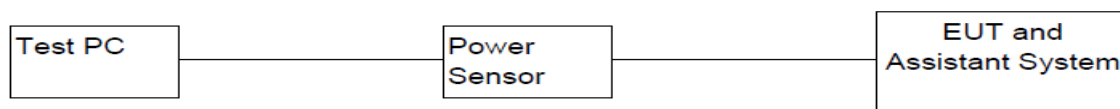
7.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- EIRP Power=Output Power+Directional Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=4dBi+4dBi=7.01dBi

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Sensor	KEYSIGHT	U2021XA	MY55240009	05/23/2022
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Micable	C10-01-01-1	100309	N/A
4	Test Software	KEYSIGHT	Power Panel	V3.11	N/A

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

UNII-1_TX A Mode_Ant 1 For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.44	0.00	14.44	24.00	0.25	PASS
40	5200	14.40	0.00	14.40	24.00	0.25	PASS
48	5240	14.77	0.00	14.77	24.00	0.25	PASS

UNII-1_TX A Mode_Ant 2 For FCC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.56	0.00	14.56	24.00	0.25	PASS
40	5200	14.86	0.00	14.86	24.00	0.25	PASS
48	5240	14.84	0.00	14.84	24.00	0.25	PASS

UNII-1_TX A Mode_Ant 1 For IC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	EIRP + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.44	0.00	17.44	23.00	0.2	PASS
40	5200	17.40	0.00	17.40	23.00	0.2	PASS
48	5240	17.77	0.00	17.77	23.00	0.2	PASS

UNII-1_TX A Mode_Ant 2 For IC

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	EIRP + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.56	0.00	17.56	23.00	0.2	PASS
40	5200	17.86	0.00	17.86	23.00	0.2	PASS
48	5240	17.84	0.00	17.84	23.00	0.2	PASS

UNII-1_TX N (HT20) Mode _Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	13.82	0.00	13.82	24.00	0.25	PASS
40	5200	13.85	0.00	13.85	24.00	0.25	PASS
48	5240	13.79	0.00	13.79	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	13.93	0.00	13.93	24.00	0.25	PASS
40	5200	13.85	0.00	13.85	24.00	0.25	PASS
48	5240	13.64	0.00	13.64	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.89	24.00	0.25	PASS
40	5200	16.86	24.00	0.25	PASS
48	5240	16.73	24.00	0.25	PASS

UNII-1_TX N (HT20) Mode _Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	22.90	23.00	0.2	PASS
40	5200	22.87	23.00	0.2	PASS
48	5240	22.74	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-1_TX N (HT40) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.51	0.00	13.51	24.00	0.25	PASS
46	5230	13.84	0.00	13.84	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.80	0.00	13.80	24.00	0.25	PASS
46	5230	13.56	0.00	13.56	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.67	24.00	0.25	PASS
46	5230	16.71	24.00	0.25	PASS

UNII-1_TX N (HT40) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	22.68	23.00	0.2	PASS
46	5230	22.72	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-3_TX A Mode_Ant1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	14.80	0	14.80	30.00	1.00	PASS
157	5785	14.47	0	14.47	30.00	1.00	PASS
165	5825	14.72	0	14.72	30.00	1.00	PASS

UNII-3_TX A Mode_Ant2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	15.00	0	15.00	30.00	1.00	PASS
157	5785	14.71	0	14.71	30.00	1.00	PASS
165	5825	14.63	0	14.63	30.00	1.00	PASS

UNII-3_TX N (HT20) Mode_Ant1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	13.85	0.00	13.85	30.00	1.00	PASS
157	5785	13.95	0.00	13.95	30.00	1.00	PASS
165	5825	13.73	0.00	13.73	30.00	1.00	PASS

UNII-3_TX N (HT20) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	13.84	0.00	13.84	30.00	1.00	PASS
157	5785	13.58	0.00	13.58	30.00	1.00	PASS
165	5825	13.47	0.00	13.47	30.00	1.00	PASS

UNII-3_TX N (HT20) Mode_Total					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	16.86	30.00	1.00	PASS
157	5785	16.78	30.00	1.00	PASS
165	5825	16.61	30.00	1.00	PASS

UNII-3_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	13.84	0.00	13.84	30.00	1.00	PASS
159	5795	13.56	0.00	13.56	30.00	1.00	PASS

UNII-3_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	13.88	0.00	13.88	30.00	1.00	PASS
159	5795	13.73	0.00	13.73	30.00	1.00	PASS

UNII-3_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	16.87	30.00	1.00	PASS
159	5795	16.66	30.00	1.00	PASS

UNII-1_TX AC (VHT20) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	13.45	0.00	13.45	24.00	0.25	PASS
40	5200	13.60	0.00	13.60	24.00	0.25	PASS
48	5240	13.93	0.00	13.93	24.00	0.25	PASS

UNII-1_TX AC (VHT20) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	13.74	0.00	13.74	24.00	0.25	PASS
40	5200	13.63	0.00	13.63	24.00	0.25	PASS
48	5240	13.86	0.00	13.86	24.00	0.25	PASS

UNII-1_TX AC (VHT20) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.61	24.00	0.25	PASS
40	5200	16.63	24.00	0.25	PASS
48	5240	16.91	24.00	0.25	PASS

UNII-1_TX AC (VHT20) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	22.62	23.00	0.2	PASS
40	5200	22.64	23.00	0.2	PASS
48	5240	22.92	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-1_TX AC (VHT40) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.65	0.00	13.65	24.00	0.25	PASS
46	5230	13.56	0.00	13.56	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.63	0.00	13.63	24.00	0.25	PASS
46	5230	13.57	0.00	13.57	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.65	24.00	0.25	PASS
46	5230	16.58	24.00	0.25	PASS

UNII-1_TX AC (VHT40) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm))	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	22.66	23.00	0.2	PASS
46	5230	22.59	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-1_TX AC (VHT80) Mode_Ant 1							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	13.79	0.00	13.79	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Ant 2							
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	13.72	0.00	13.72	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Total For FCC					
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	16.77	24.00	0.25	PASS

UNII-1_TX AC (VHT80) Mode_Total For IC					
Channel	Frequency (MHz)	EIRP Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	22.78	23.00	0.2	PASS

EIRP Power=Output Power+Directional Gain

MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

UNII-3_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	13.62	0.00	13.62	30.00	1.00	PASS
157	5785	13.42	0.00	13.42	30.00	1.00	PASS
165	5825	13.62	0.00	13.62	30.00	1.00	PASS

UNII-3_TX AC (VHT20) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	13.64	0.00	13.64	30.00	1.00	PASS
157	5785	13.65	0.00	13.65	30.00	1.00	PASS
165	5825	13.68	0.00	13.68	30.00	1.00	PASS

UNII-3_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	16.64	30.00	1.00	PASS
157	5785	16.55	30.00	1.00	PASS
165	5825	16.66	30.00	1.00	PASS

UNII-3_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	13.42	0.00	13.42	30.00	1.00	PASS
159	5795	13.87	0.00	13.87	30.00	1.00	PASS

UNII-3_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	13.82	0.00	13.82	30.00	1.00	PASS
159	5795	13.69	0.00	13.69	30.00	1.00	PASS

UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	16.64	30.00	1.00	PASS
159	5795	16.79	30.00	1.00	PASS

UNII-3_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	13.46	0.00	13.46	30.00	1.00	PASS

UNII-3_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	13.60	0.00	13.60	30.00	1.00	PASS

UNII-3_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	16.54	30.00	1.00	PASS

8 POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart E (15.407)&RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-247 6.2.1.2	EIRP Power Spectral Density	10dBm/MHz	5150-5250
15.407(a)	Power Spectral Density	AP device:17dBm/MHz Client device:11dBm/MHz	5150-5250
15.407(a) RSS-247 6.2.4.2	Power Spectral Density	30dBm/500kHz	5725-5850

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.
- EIRP Power Spectral Density = Power Spectral Density+Antenna Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3dBi+3dBi=6.01dBi

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP



8.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

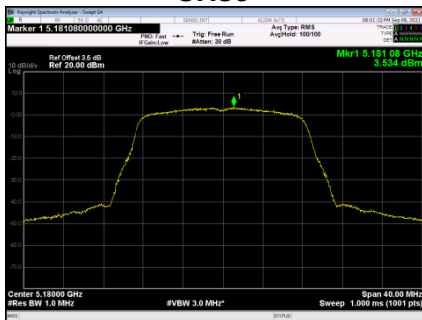
UNII-1_TX A Mode_Ant 1 For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.534	0.00	3.534	11.00	PASS
40	5200	3.969	0.00	3.969	11.00	PASS
48	5240	4.804	0.00	4.804	11.00	PASS

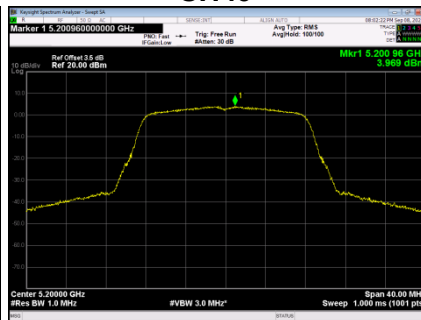
UNII-1_TX A Mode_Ant 1 For IC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	EIRP Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	6.534	0.00	6.534	10.00	PASS
40	5200	6.969	0.00	6.969	10.00	PASS
48	5240	7.804	0.00	7.804	10.00	PASS

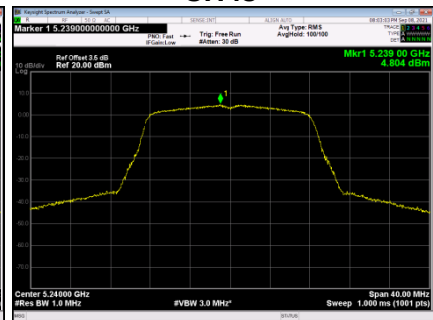
CH36



CH40



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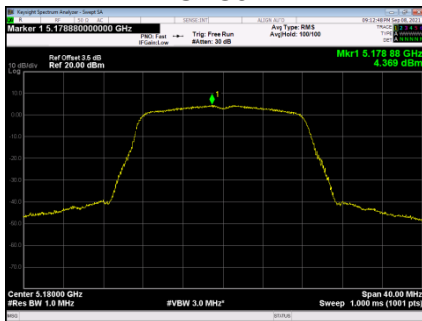
UNII-1_TX A Mode_Ant2 For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	4.369	0.00	4.369	11.00	PASS
40	5200	4.715	0.00	4.715	11.00	PASS
48	5240	5.273	0.00	5.273	11.00	PASS

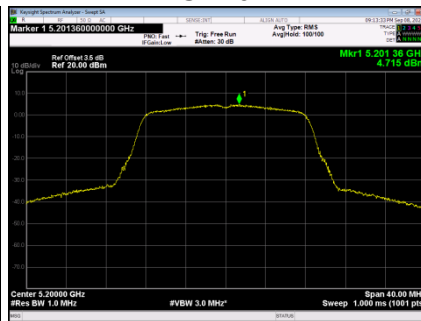
UNII-1_TX A Mode_Ant2 For IC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	EIRP Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	7.369	0.00	7.369	10.00	PASS
40	5200	7.715	0.00	7.715	10.00	PASS
48	5240	8.273	0.00	8.273	10.00	PASS

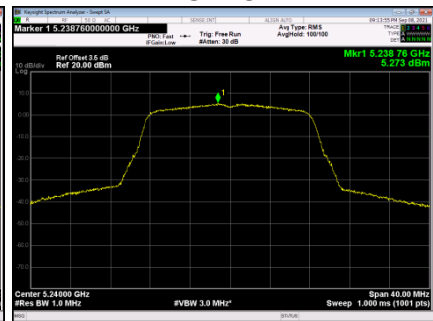
CH36



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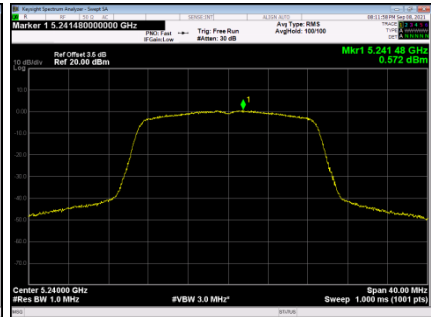
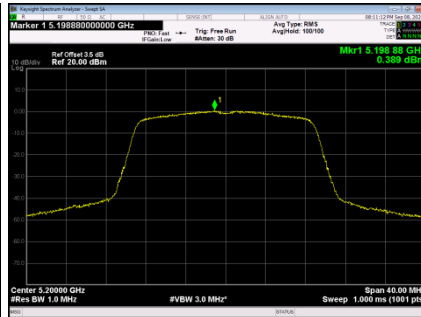
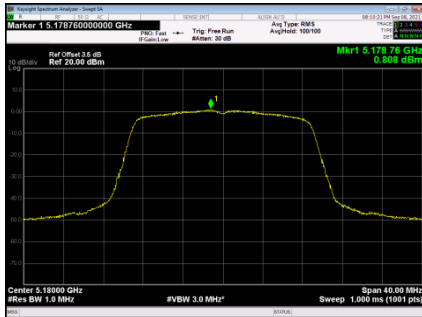
UNII-1_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	0.808	0.00	0.808	11.00	PASS
40	5200	0.389	0.00	0.389	11.00	PASS
48	5240	0.572	0.00	0.572	11.00	PASS

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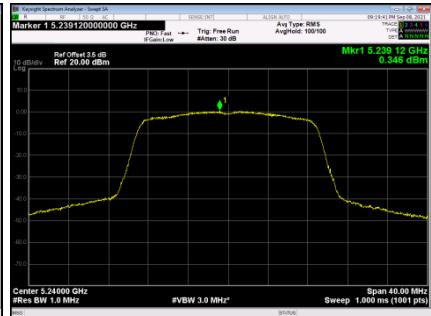
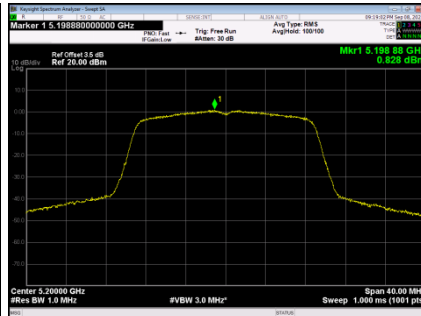
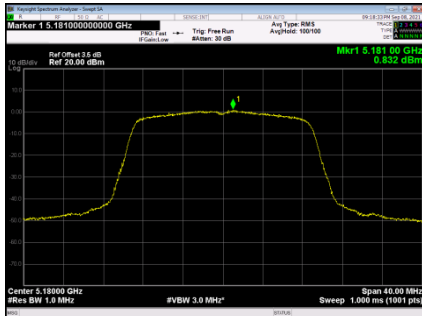
UNII-1_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	0.832	0.00	0.832	11.00	PASS
40	5200	0.828	0.00	0.828	11.00	PASS
48	5240	0.346	0.00	0.346	11.00	PASS

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UNII-1_TX N (HT20) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.830	11.00	PASS
40	5200	3.624	11.00	PASS
48	5240	3.471	11.00	PASS

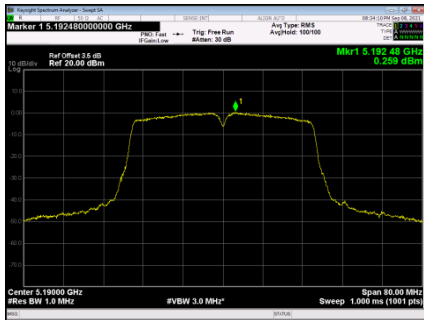
UNII-1_TX N (HT20) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.840	10.00	PASS
40	5200	9.634	10.00	PASS
48	5240	9.481	10.00	PASS

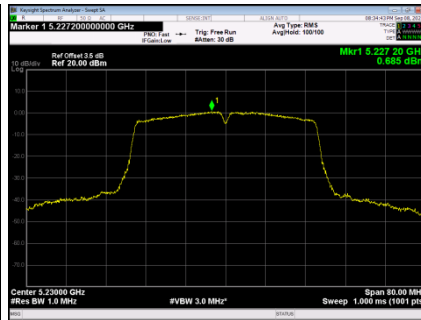
UNII-1_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.259	0.00	0.259	11.00	PASS
46	5230	0.685	0.00	0.685	11.00	PASS

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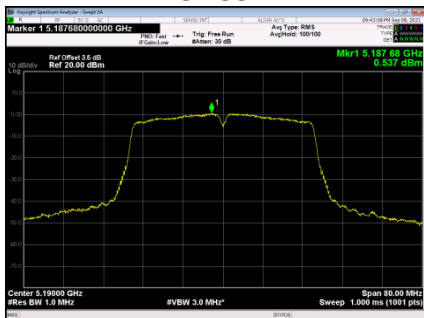
CH46



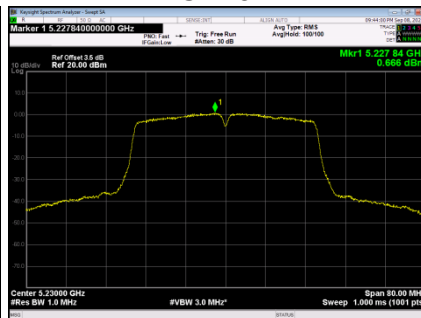
UNII-1_TX N (HT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.537	0.00	0.537	11.00	PASS
46	5230	0.666	0.00	0.666	11.00	PASS

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UNII-1_TX N (HT40) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	3.411	11.00	PASS
46	5230	3.686	11.00	PASS

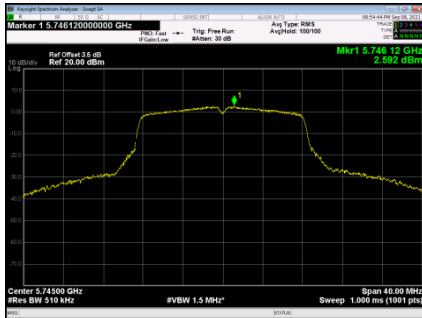
UNII-1_TX N (HT40) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	9.421	10.00	PASS
46	5230	9.696	10.00	PASS

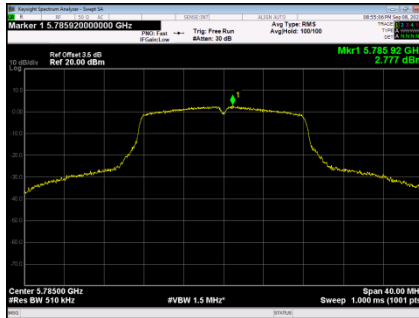
UNII-3_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	2.592	0.00	2.592	30.00	PASS
157	5785	2.777	0.00	2.777	30.00	PASS
165	5825	3.300	0.00	3.300	30.00	PASS

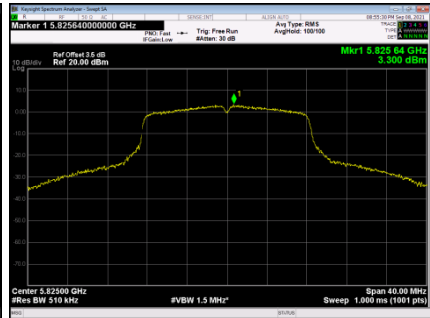
CH149



CH157



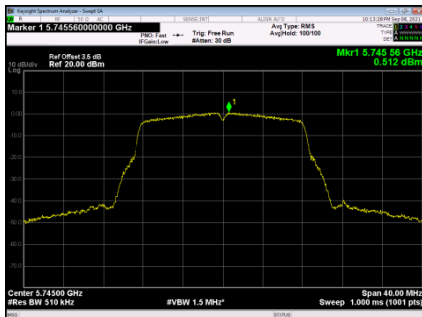
CH165



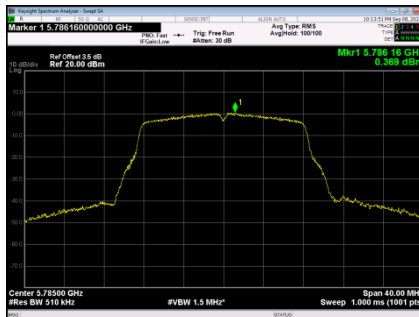
UNII-3_TX A Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.512	0.00	0.512	30.00	PASS
157	5785	0.369	0.00	0.369	30.00	PASS
165	5825	0.634	0.00	0.634	30.00	PASS

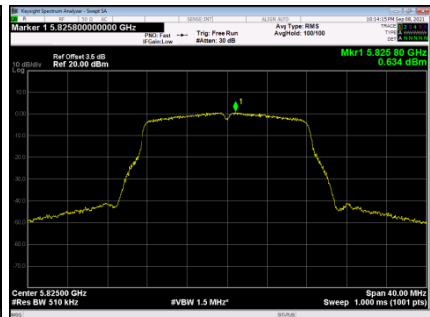
CH149



CH157



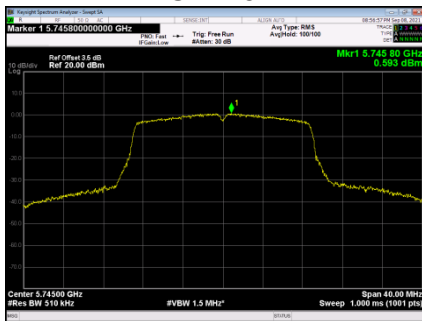
CH165



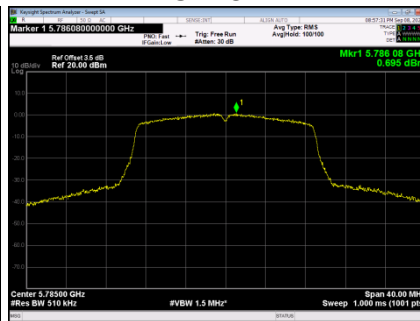
UNII-3_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.593	0.00	0.593	30.00	PASS
157	5785	0.695	0.00	0.695	30.00	PASS
165	5825	0.628	0.00	0.628	30.00	PASS

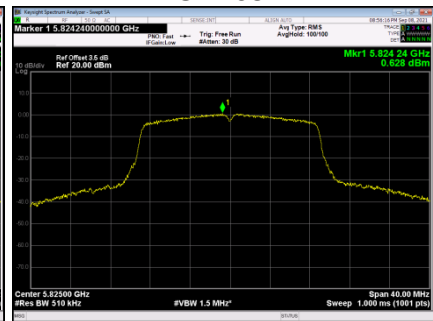
CH149



CH157



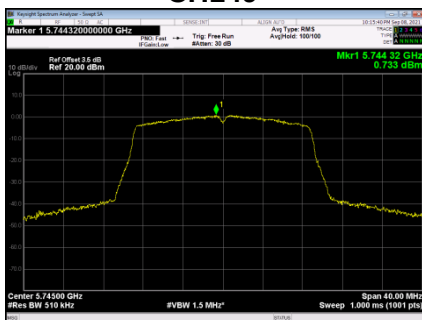
CH165



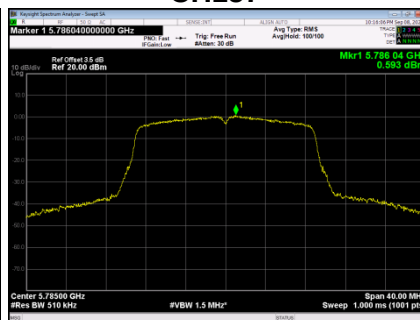
UNII-3_TX N (HT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.733	0.00	0.733	30.00	PASS
157	5785	0.593	0.00	0.593	30.00	PASS
165	5825	0.552	0.00	0.552	30.00	PASS

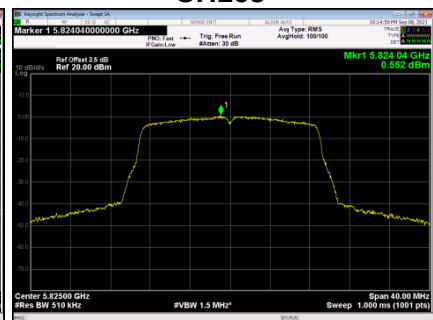
CH149



CH157



CH165



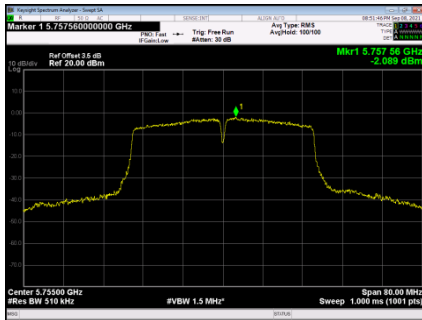
UNII-3_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	3.674	30.00	PASS
157	5785	3.655	30.00	PASS
165	5825	3.600	30.00	PASS

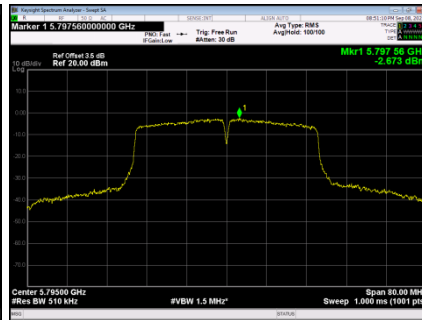
UNII-3_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-2.089	0.00	-2.089	30.00	PASS
159	5795	-2.673	0.00	-2.673	30.00	PASS

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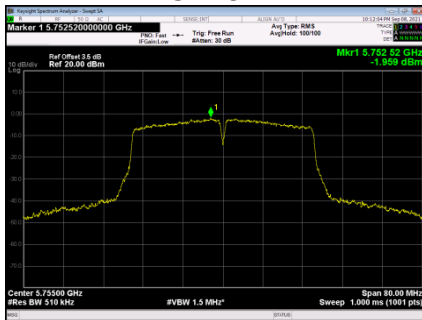
CH159



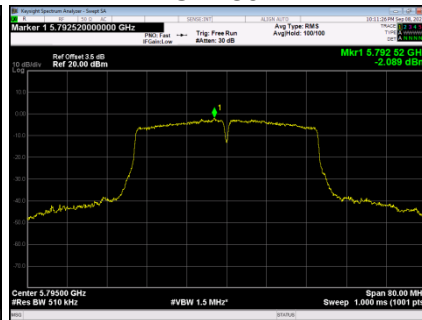
UNII-3_TX N (HT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-1.959	0.00	-1.959	30.00	PASS
159	5795	-2.089	0.00	-2.089	30.00	PASS

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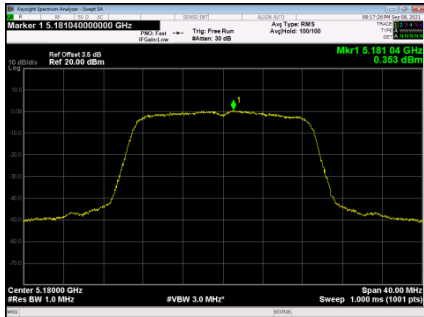
UNII-3_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	0.987	30.00	PASS
159	5795	0.639	30.00	PASS

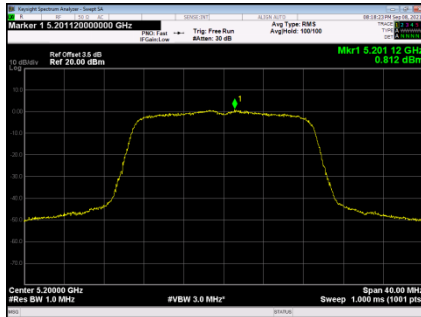
UNII-1_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	0.353	0.00	0.353	11.00	PASS
40	5200	0.812	0.00	0.812	11.00	PASS
48	5240	0.954	0.00	0.954	11.00	PASS

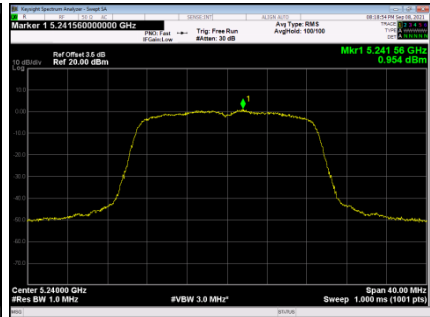
CH36



CH40



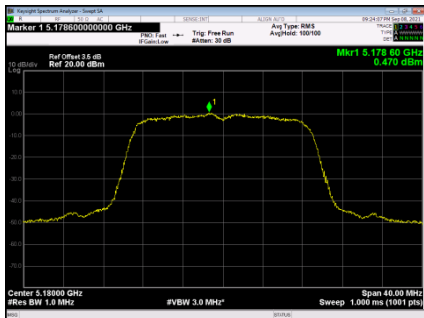
CH48



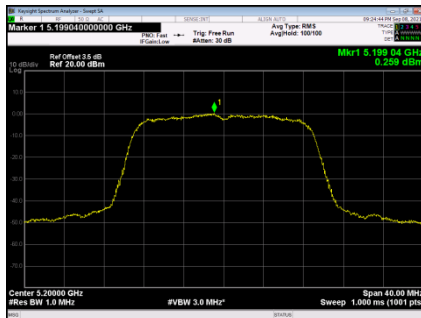
UNII-1_TX AC (VHT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	0.470	0.00	0.470	11.00	PASS
40	5200	0.259	0.00	0.259	11.00	PASS
48	5240	0.634	0.00	0.634	11.00	PASS

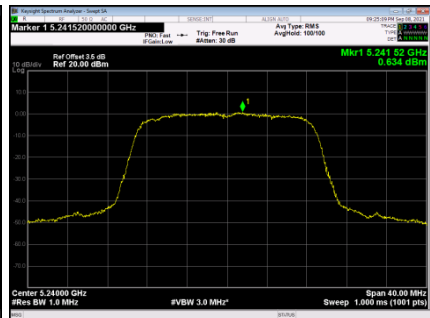
CH36



CH40



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UNII-1_TX AC (VHT20) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.422	11.00	PASS
40	5200	3.555	11.00	PASS
48	5240	3.807	11.00	PASS

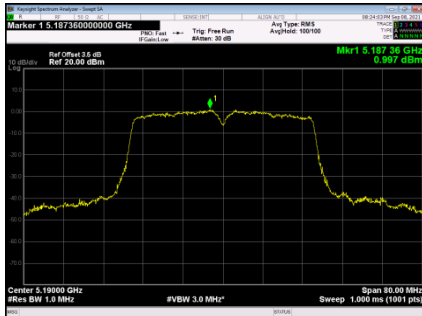
UNII-1_TX AC (VHT20) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.432	10.00	PASS
40	5200	9.565	10.00	PASS
48	5240	9.817	10.00	PASS

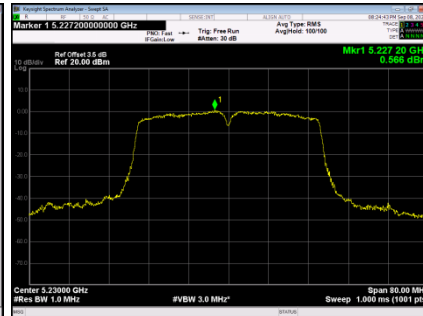
UNII-1_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.997	0.00	0.997	11.00	PASS
46	5230	0.566	0.00	0.566	11.00	PASS

CH38



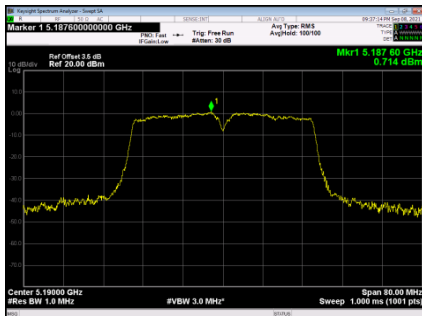
CH46



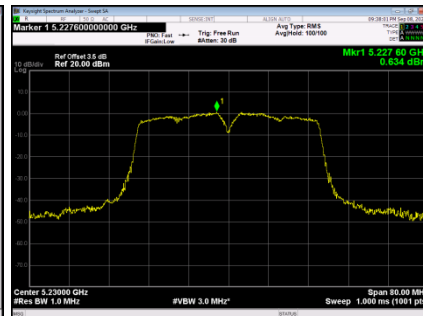
UNII-1_TX AC (VHT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.714	0.00	0.714	11.00	PASS
46	5230	0.634	0.00	0.634	11.00	PASS

CH38



CH46



UNII-1_TX AC (VHT40) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	3.868	11.00	PASS
46	5230	3.610	11.00	PASS

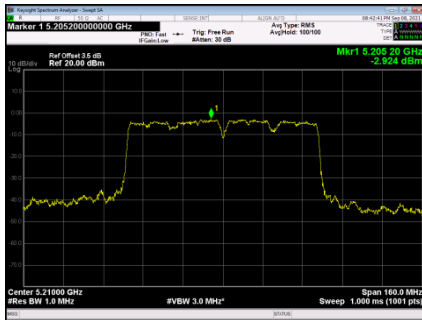
UNII-1_TX AC (VHT40) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	9.878	10.00	PASS
46	5230	9.620	10.00	PASS

UNII-1_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-2.924	0.00	-2.924	11.00	PASS

CH42



UNII-1_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-2.246	0.00	-2.246	11.00	PASS

CH42



UNII-1_TX AC (VHT80) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	0.439	11.00	PASS

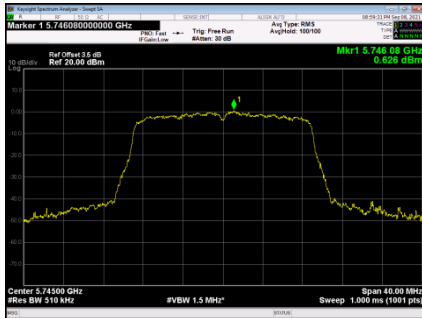
UNII-1_TX AC (VHT80) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	6.449	10.00	PASS

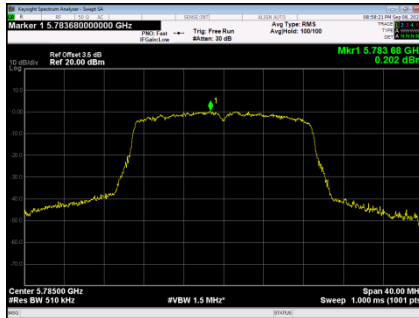
UNII-3_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.626	0.00	0.626	30.00	PASS
157	5785	0.202	0.00	0.202	30.00	PASS
165	5825	0.383	0.00	0.383	30.00	PASS

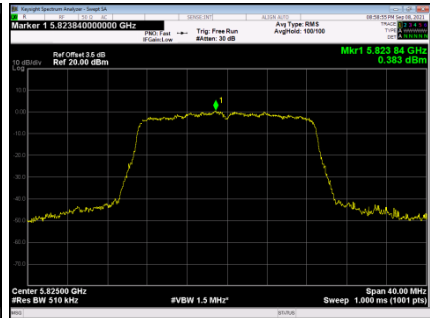
CH149



CH157



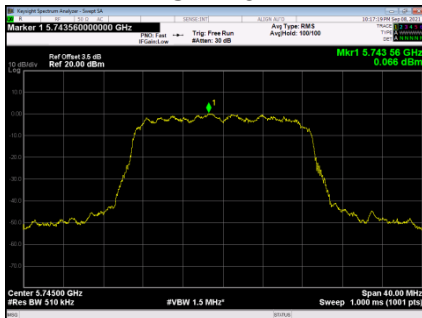
CH165



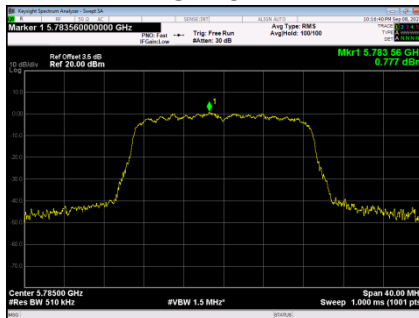
UNII-3_TX AC (VHT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.066	0.00	0.066	30.00	PASS
157	5785	0.777	0.00	0.777	30.00	PASS
165	5825	0.170	0.00	0.170	30.00	PASS

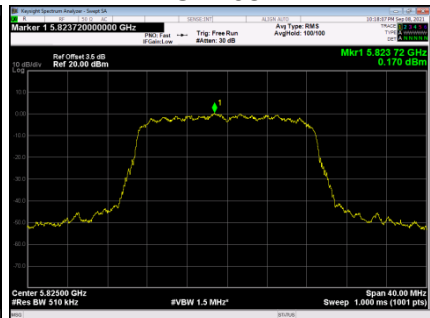
CH149



CH157



CH165



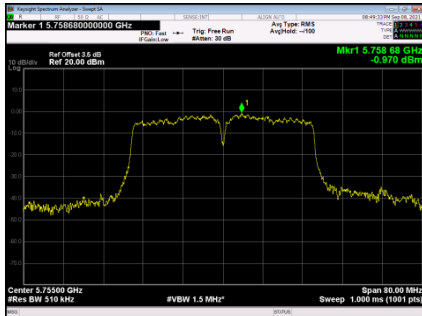
UNII-3_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	3.365	30.00	PASS
157	5785	3.509	30.00	PASS
165	5825	3.288	30.00	PASS

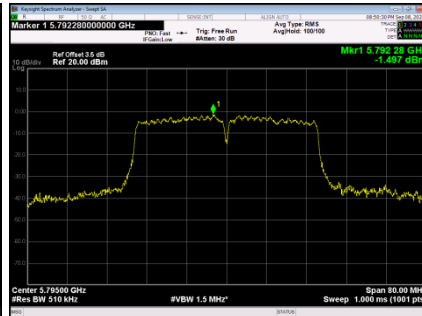
UNII-3_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-0.970	0.00	-0.970	30.00	PASS
159	5795	-1.497	0.00	-1.497	30.00	PASS

CH151



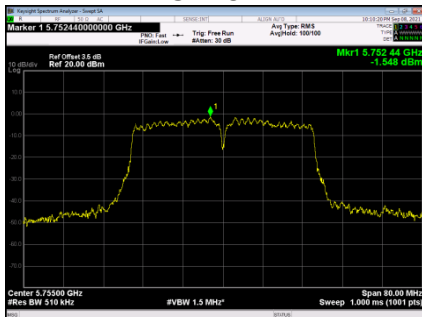
CH159



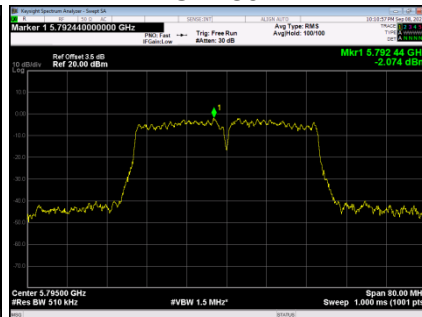
UNII-3_TX AC (VHT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-1.548	0.00	-1.548	30.00	PASS
159	5795	-2.074	0.00	-2.074	30.00	PASS

CH151



CH159



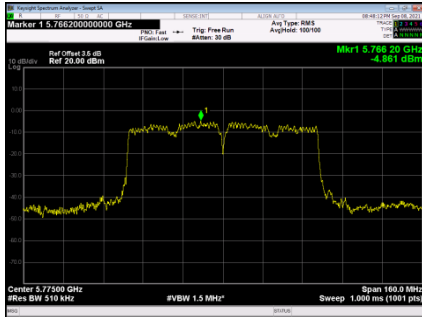
UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	1.761	30.00	PASS
159	5795	1.234	30.00	PASS

UNII-3_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-4.861	0.00	-4.861	30.00	PASS

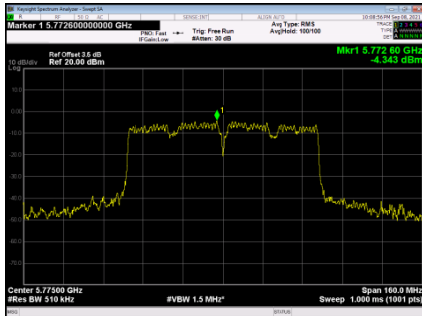
CH155



UNII-3_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-4.343	0.00	-4.343	30.00	PASS

CH155



UNII-3_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-1.584	30.00	PASS

9.FREQUENCY STABILITY MEASUREMENT

9.1LIMIT

FCC Part15, Subpart E (15.407)&RSS-GEN			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g) RSS-GEN 6.11	Frequency Stability	Specified in the user's manual	5150-5250
			5725-5850

9.2TEST PROCEDURE AND SETTING

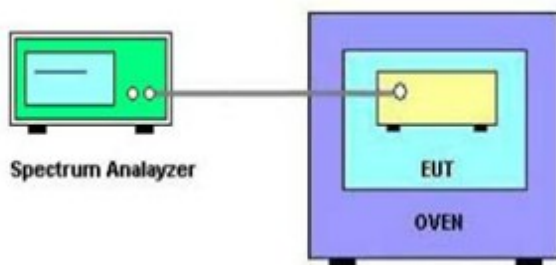
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

9.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A
4	Temperature conditioning	Guan Jian.HTH1000	-20-130°C	GJ1000-10D001	N/A
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A

9.4TEST SETUP



9.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Temperature vs. Frequency Stability-UNII-1		
Voltage	Temperature	Measurement Frequency (MHz)
5V	(°C)	5180
	-20	5180.0015
	25	5180.0015
	50	5180.0014
2.2V	25	5180.0014
Max. Deviation (MHz)		0.0016
Max. Deviation (ppm)		0.31

Temperature vs. Frequency Stability-UNII-3		
Voltage	Temperature	Measurement Frequency (MHz)
5V	(°C)	5745
	-20	5745.0021
	25	5745.0025
	50	5745.0018
2.2V	25	5745.0019
Max. Deviation (MHz)		0.0025
Max. Deviation (ppm)		0.44

Note: 2.2V is the end point voltage, and products below 2.2V will cease working.

END OF TEST REPORT