

FCC &ISED Radio Test Report**FCC ID: 2AC23-DCT12****IC: 12290A-DCT12****The report concerns: Original Grant**

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Date Sample(s) Received : 2021-06-17
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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 : DCT12R2511
Ratings : I/P: DC 5V

Test Engineer:



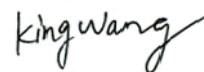
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Responsible Engineer :



Smile Wang

Authorized Signatory:



King Wang

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1.TEST 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.	DCT12R2511
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.

2.SUMMARY 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	±0.048kHz
Uncertainty for conducted RF Power	±0.32dB

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	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	DCT12R2511	
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:4dBi
Maximum Output Power for UNII-1 For FCC	IEEE 802.11a: 14.94dBm (0.0310W) IEEE 802.11n (HT20): 13.78dBm (0.0239 W) IEEE 802.11n (HT40): 15.21dBm (0.0332 W) IEEE 802.11ac (VHT20): 13.81dBm (0.0240 W) IEEE 802.11ac (VHT40): 15.73dBm (0.0374 W) IEEE 802.11ac (VHT80): 15.51dBm (0.0356 W)	
Maximum EIRP Output Power for UNII-1 For IC	IEEE 802.11a: 18.94dBm (0.0780W) IEEE 802.11n (HT20): 20.79dBm (0.1199 W) IEEE 802.11n (HT40): 22.22dBm (0.1667 W) IEEE 802.11ac (VHT20): 20.82dBm (0.1208 W) IEEE 802.11ac (VHT40): 22.74dBm (0.1879 W) IEEE 802.11ac (VHT80): 22.52dBm (0.1786 W)	
Maximum Output Power for UNII-3	IEEE 802.11a: 14.86dBm (0.0292 W) IEEE 802.11n (HT20): 17.91dBm (0.0617 W) IEEE 802.11n (HT40): 17.64dBm (0.0581 W) IEEE 802.11ac (VHT20): 15.61dBm (0.0364 W) IEEE 802.11ac (VHT40): 15.76dBm (0.0377 W) IEEE 802.11ac (VHT80): 15.94dBm (0.0392 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:

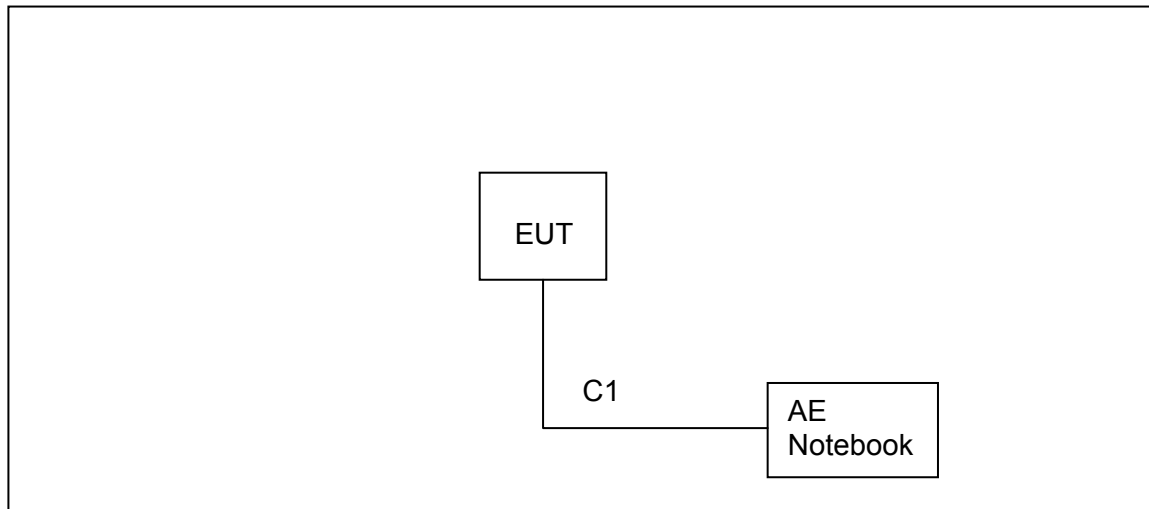
- (1) For radiated emission below 1 GHz and AC power line conducted emissions test, the IEEE 802.11n40 channel 38 is found to be the worst case and recorded.

3.3.PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software	Realtek 11ac 8822B PCIE WLAN MP		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	83/74	83/74	83/74
IEEE 802.11n (HT20)	82/73	82/73	82/73
IEEE 802.11ac (VHT20)	81/71	81/71	81/71
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	78/73	78/73	
IEEE 802.11ac (VHT40)	79/76	79/76	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	80/71		

UNII-3			
Test Software	Realtek 11ac 8822B PCIE WLAN MP		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	83/76	83/76	83/75
IEEE 802.11n (HT20)	88/79	88/79	88/79
IEEE 802.11ac (VHT20)	81/71	81/71	81/71
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	80/77	80/77	
IEEE 802.11ac (VHT40)	80/73	80/73	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	80/70		

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

4.1.LIMIT

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

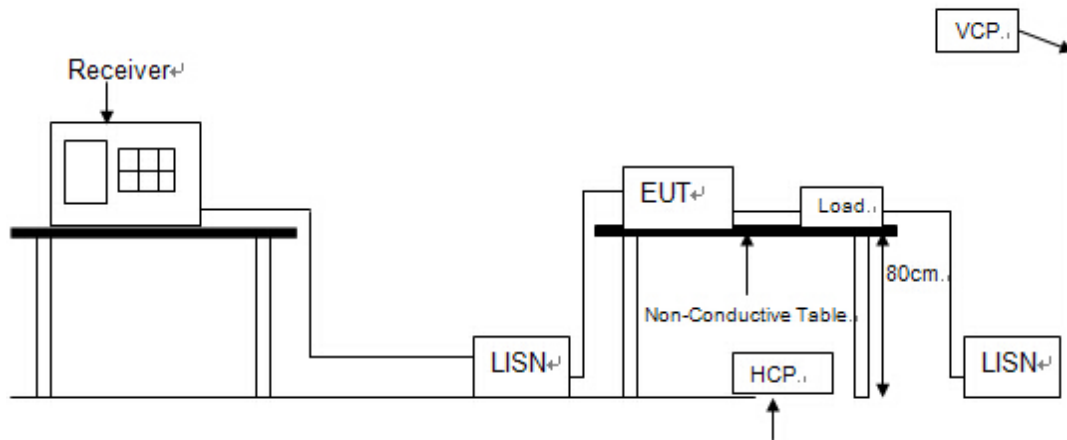
4.2. TEST PROCEDURE

- 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 ground plane 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.

4.3.MEASUREMENT 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



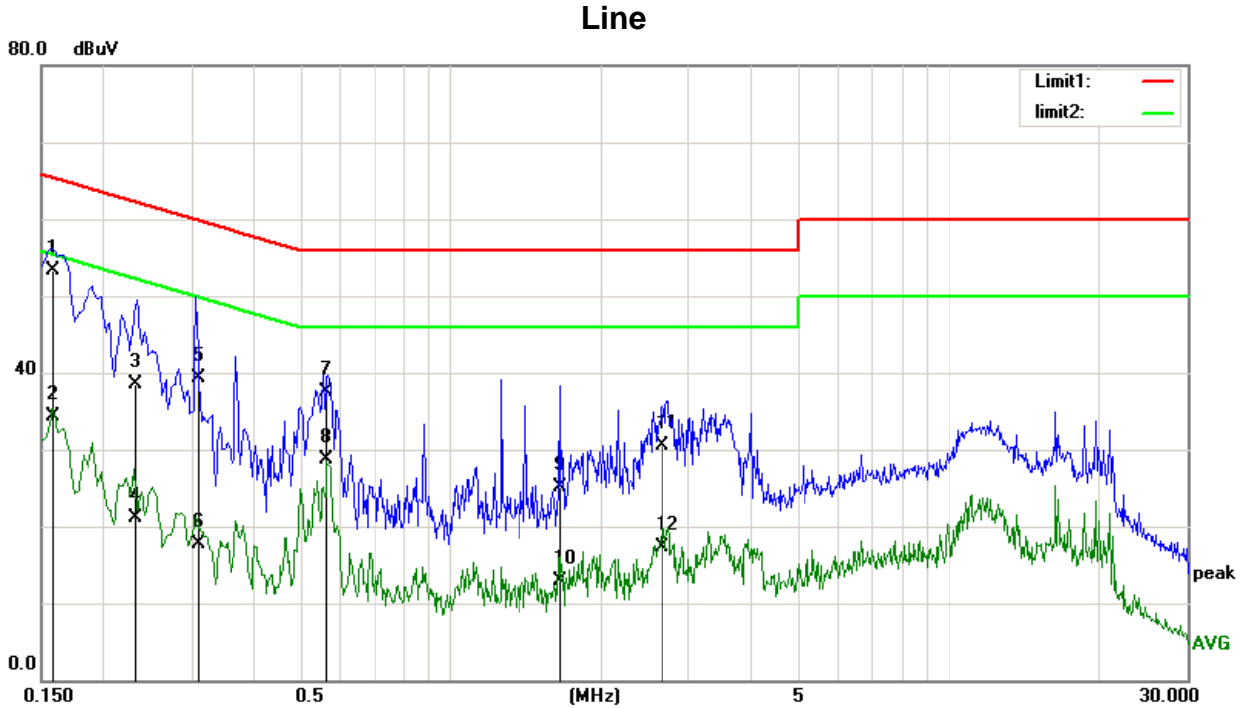
4.5. EUT OPERATION CONDITIONS

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)



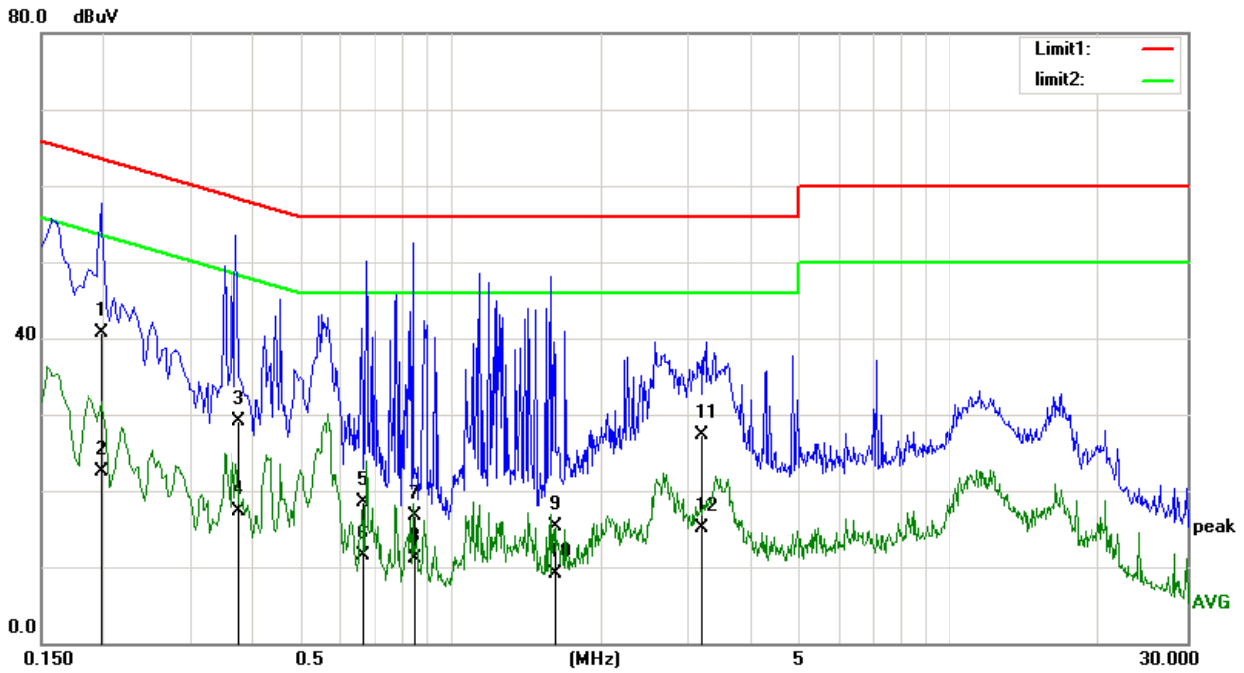
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1587	41.75	11.47	53.22	65.53	-12.31	QP
2	0.1587	22.81	11.47	34.28	55.53	-21.25	AVG
3	0.2314	27.54	10.98	38.52	62.40	-23.88	QP
4	0.2314	10.08	10.98	21.06	52.40	-31.34	AVG
5	0.3085	28.80	10.51	39.31	60.01	-20.70	QP
6	0.3085	7.23	10.51	17.74	50.01	-32.27	AVG
7	0.5582	27.28	10.27	37.55	56.00	-18.45	QP
8	0.5582	18.47	10.27	28.74	46.00	-17.26	AVG
9	1.6526	14.79	10.22	25.01	56.00	-30.99	QP
10	1.6526	2.77	10.22	12.99	46.00	-33.01	AVG
11	2.6678	20.22	10.22	30.44	56.00	-25.56	QP
12	2.6678	7.09	10.22	17.31	46.00	-28.69	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	0.1987	29.55	11.19	40.74	63.66	-22.92	QP
2	0.1987	11.40	11.19	22.59	53.66	-31.07	AVG
3	0.3741	18.77	10.43	29.20	58.41	-29.21	QP
4	0.3741	6.96	10.43	17.39	48.41	-31.02	AVG
5	0.6636	8.30	10.25	18.55	56.00	-37.45	QP
6	0.6636	1.18	10.25	11.43	46.00	-34.57	AVG
7	0.8456	6.49	10.22	16.71	56.00	-39.29	QP
8	0.8456	0.94	10.22	11.16	46.00	-34.84	AVG
9	1.6288	5.08	10.22	15.30	56.00	-40.70	QP
10	1.6288	-1.06	10.22	9.16	46.00	-36.84	AVG
11	3.1968	17.02	10.23	27.25	56.00	-28.75	QP
12	3.1968	4.78	10.23	15.01	46.00	-30.99	AVG

Remarks:

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

5. RADIATED EMISSIONS 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

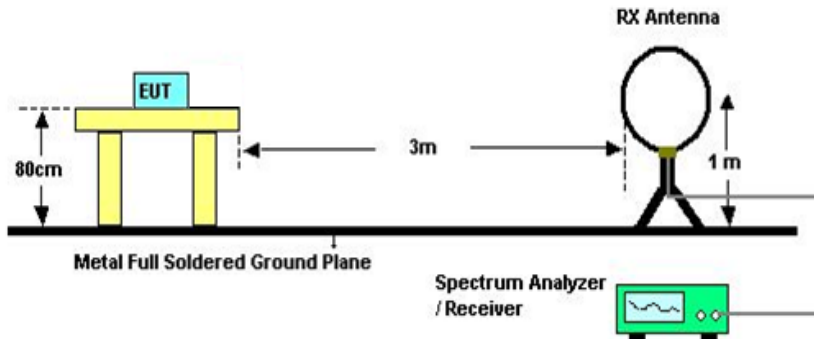
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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

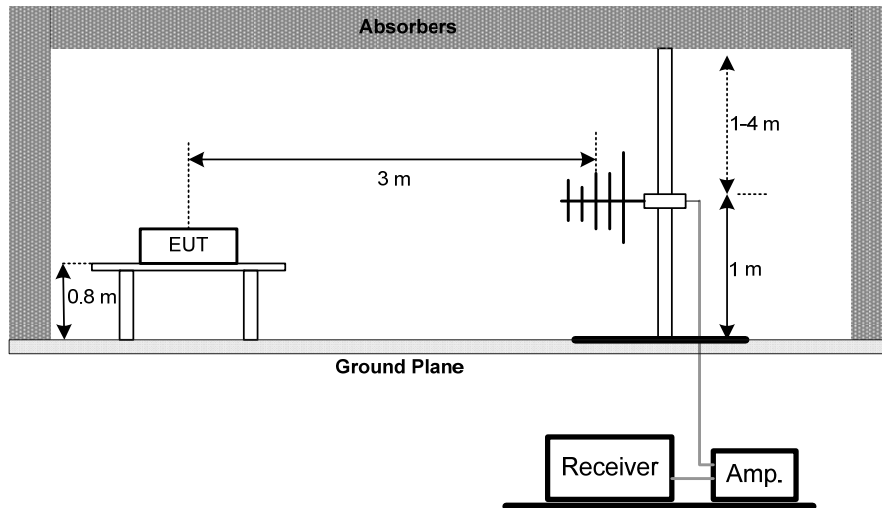
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	12/12/2021
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2021
3	Spectrum Analyzer	R&S	FSP	1164.4391.38	06/01/2022
4	Loop antenna	SCHWARZBECK	FMZB1519	1519-062	12/14/2021
5	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/06/2021
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

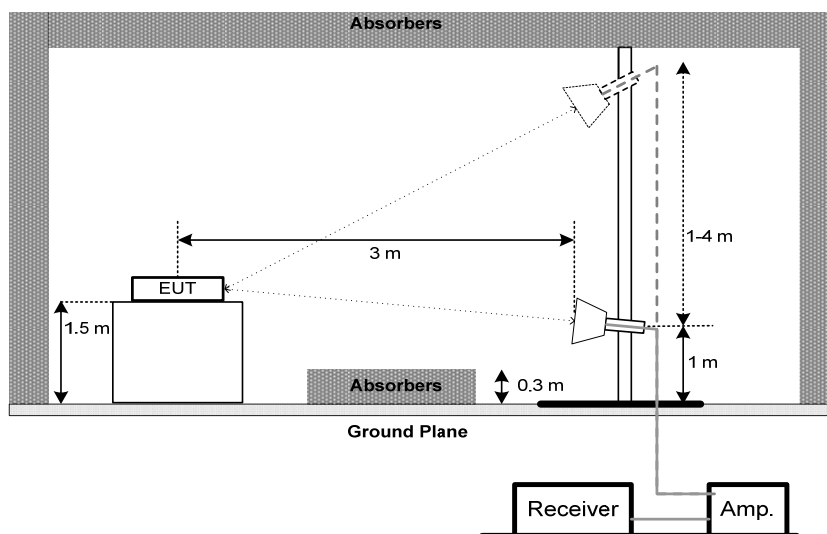
9 kHz to 30 MHz



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)
------------	----------------------------------

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.

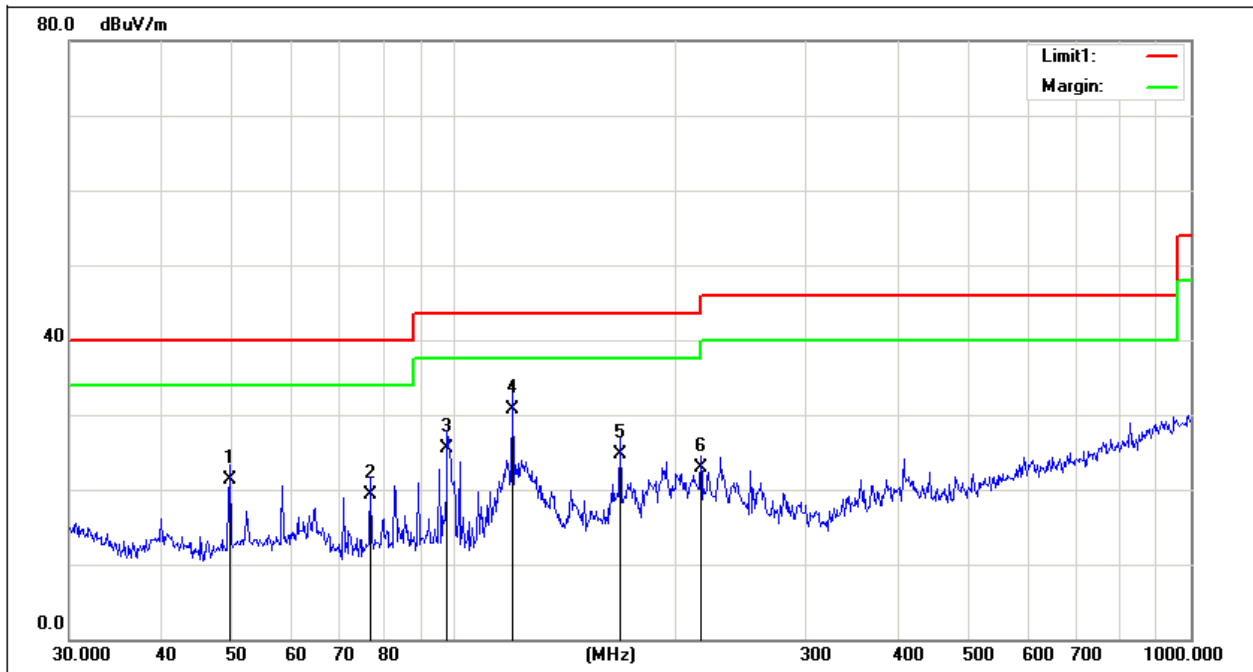
Distance extrapolation factor = $20 \log (\text{specific distance}/\text{test distance})(\text{dB})$;

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)

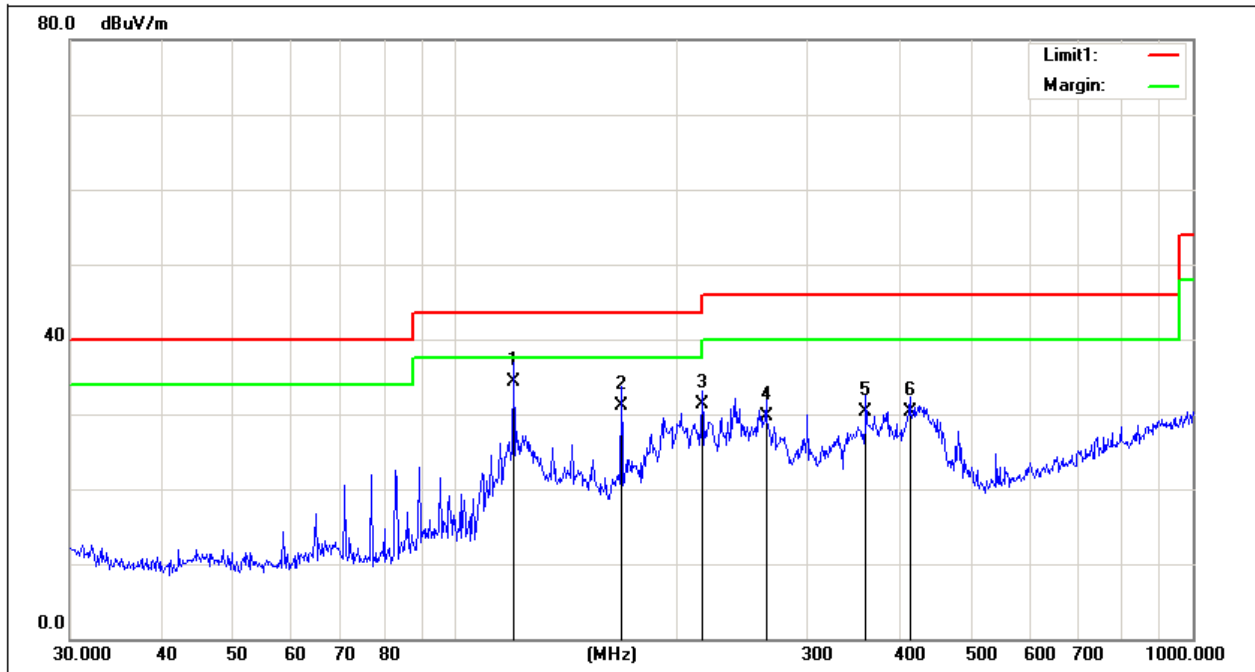
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.5328	34.58	-13.20	21.38	40.00	-18.62	QP
2	76.7808	34.31	-14.99	19.32	40.00	-20.68	QP
3	97.7983	40.18	-14.60	25.58	43.50	-17.92	QP
4	119.8556	43.66	-12.89	30.77	43.50	-12.73	QP
5	167.8243	35.23	-10.48	24.75	43.50	-18.75	QP
6	216.0240	33.41	-10.58	22.83	46.00	-23.17	QP

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

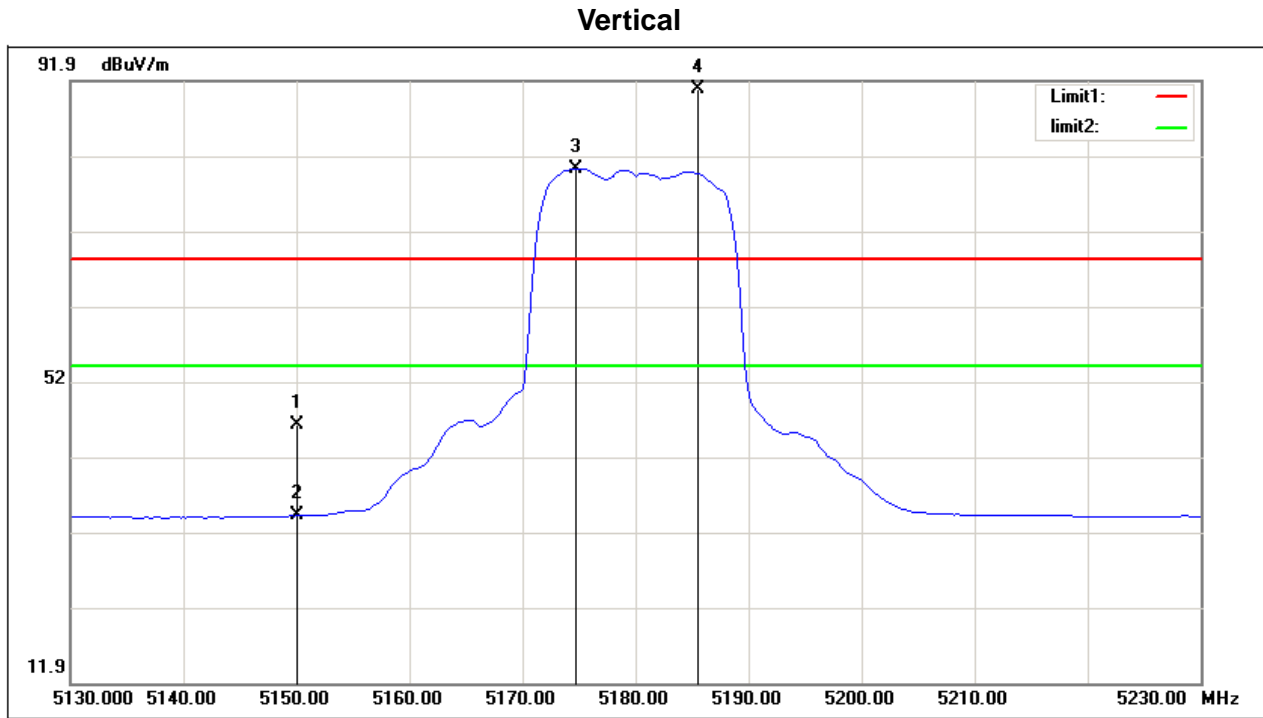
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	119.8556	48.15	-13.89	34.26	43.50	-9.24	QP
2	167.8243	41.99	-10.91	31.08	43.50	-12.42	QP
3	216.0240	40.77	-9.38	31.39	46.00	-14.61	QP
4	263.8190	34.52	-4.76	29.76	46.00	-16.24	QP
5	360.4476	37.86	-7.63	30.23	46.00	-15.77	QP
6	413.2706	37.64	-7.33	30.31	46.00	-15.69	QP

5.8.TEST RESULTS - ABOVE1000 MHz(BAND EDGE)

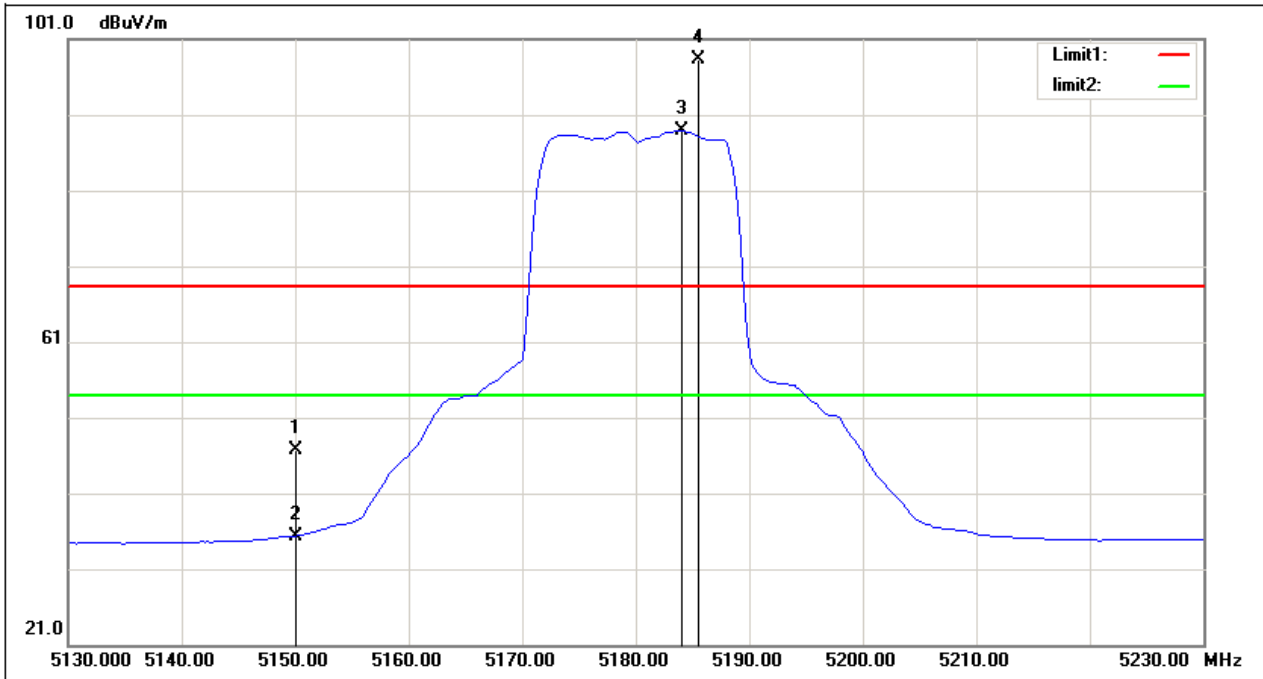
Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	11.21	34.94	46.15	68.30	-22.15	peak
2	5150.000	-0.81	34.94	34.13	54.00	-19.87	AVG
3	5174.750	45.27	35.01	80.28	/	/	AVG
4	5185.500	55.69	35.05	90.74	/	/	peak

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

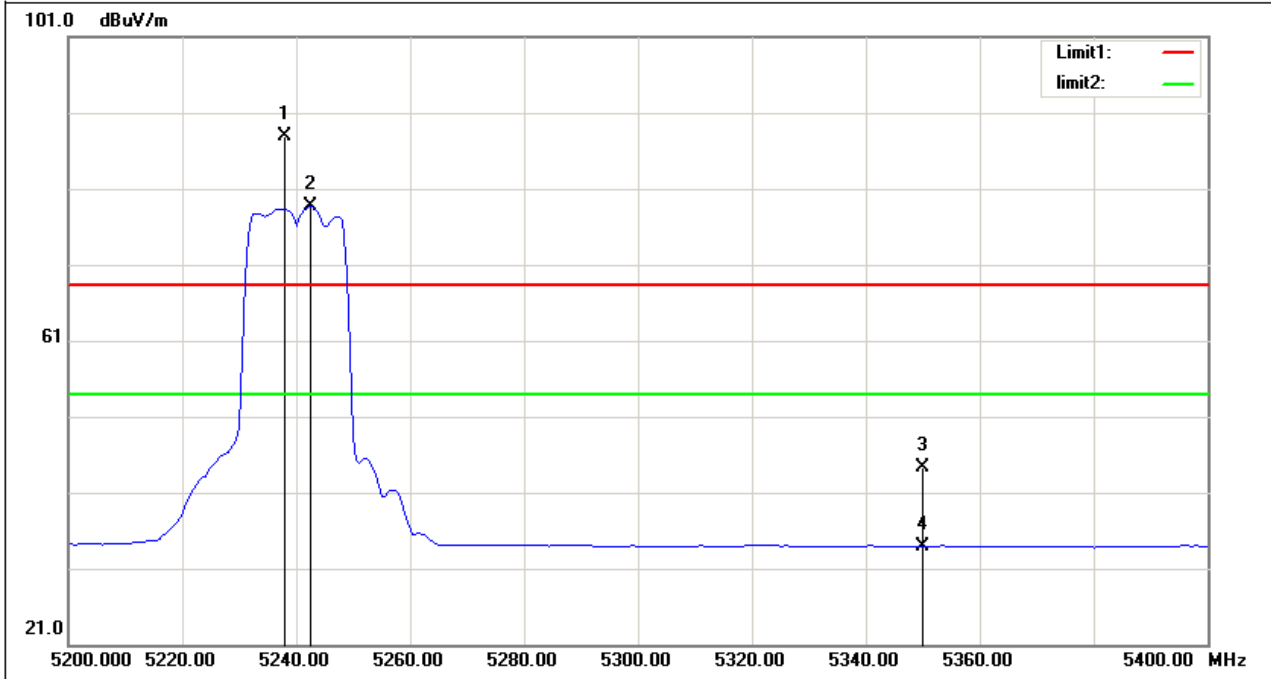
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	11.72	34.94	46.66	68.30	-21.64	peak
2	5150.000	0.43	34.94	35.37	54.00	-18.63	AVG
3	5184.000	53.83	35.04	88.87	/	/	AVG
4	5185.500	63.34	35.05	98.39	/	/	peak

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

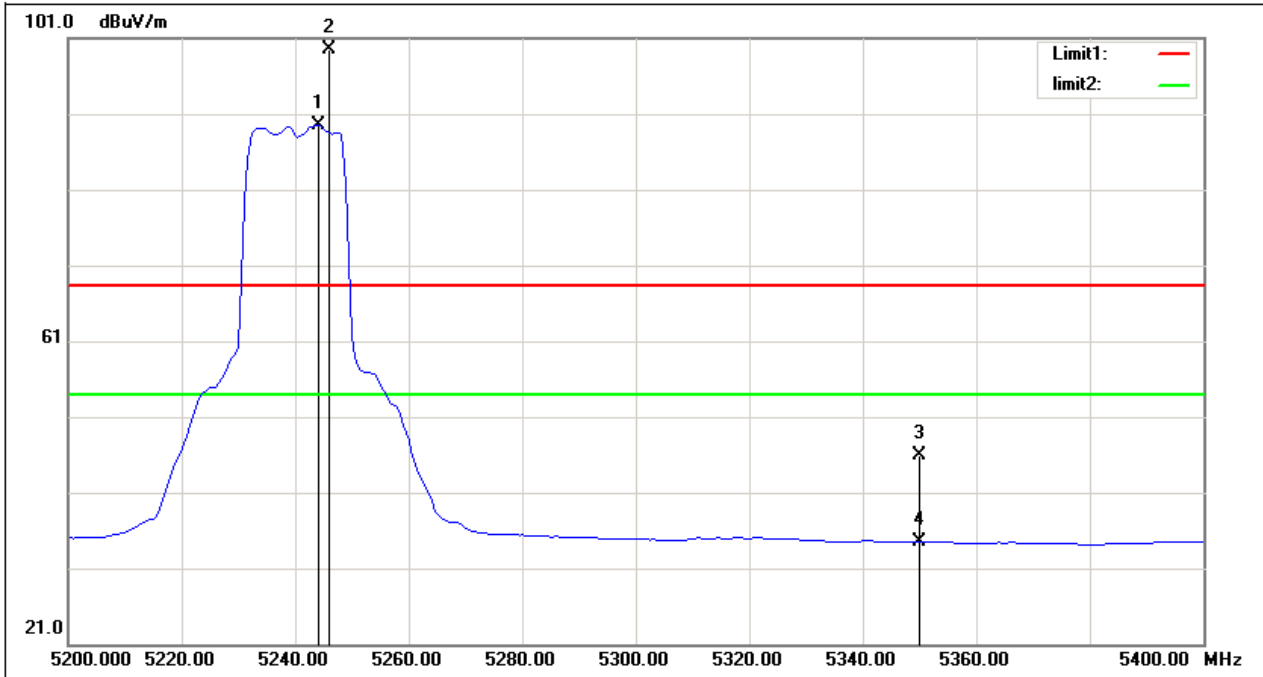
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5238.000	52.62	35.19	87.81	/	/	peak
2	5242.500	43.42	35.20	78.62	/	/	AVG
3	5350.000	8.77	35.50	44.27	68.30	-24.03	peak
4	5350.000	-1.61	35.50	33.89	54.00	-20.11	AVG

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

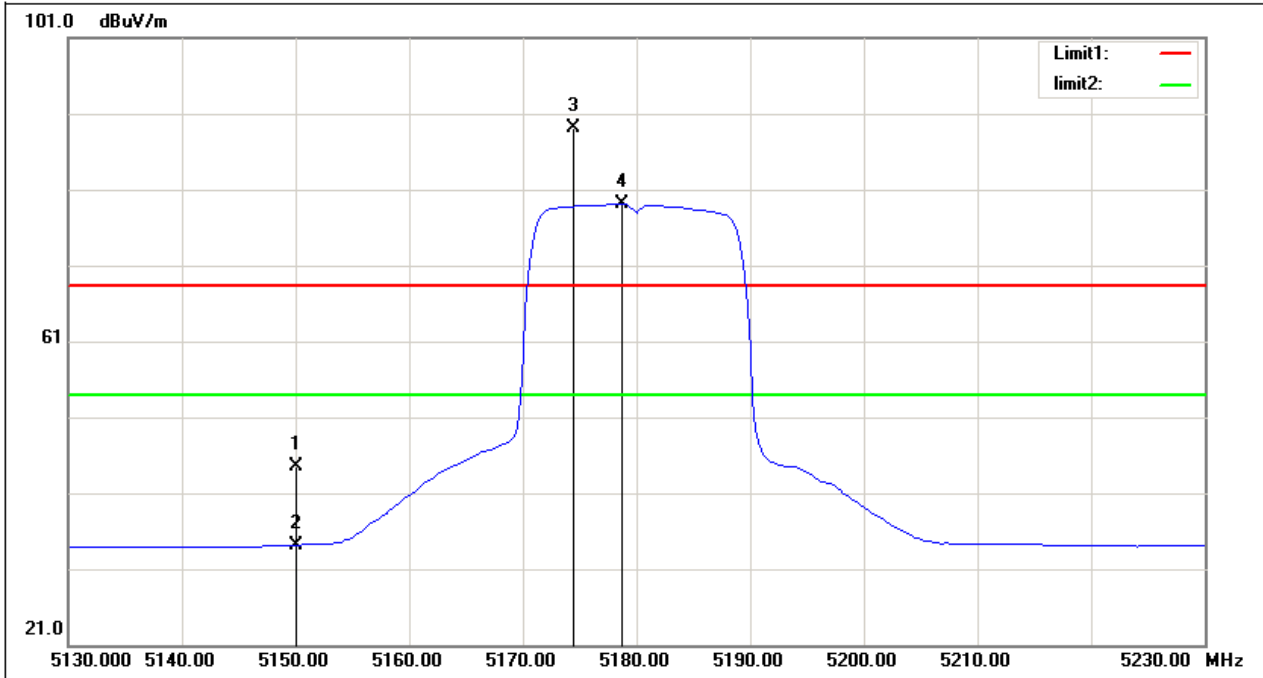
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5244.000	54.29	35.21	89.50	/	/	AVG
2	5246.000	64.21	35.21	99.42	/	/	peak
3	5350.000	10.39	35.50	45.89	68.30	-22.41	peak
4	5350.000	-1.03	35.50	34.47	54.00	-19.53	AVG

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

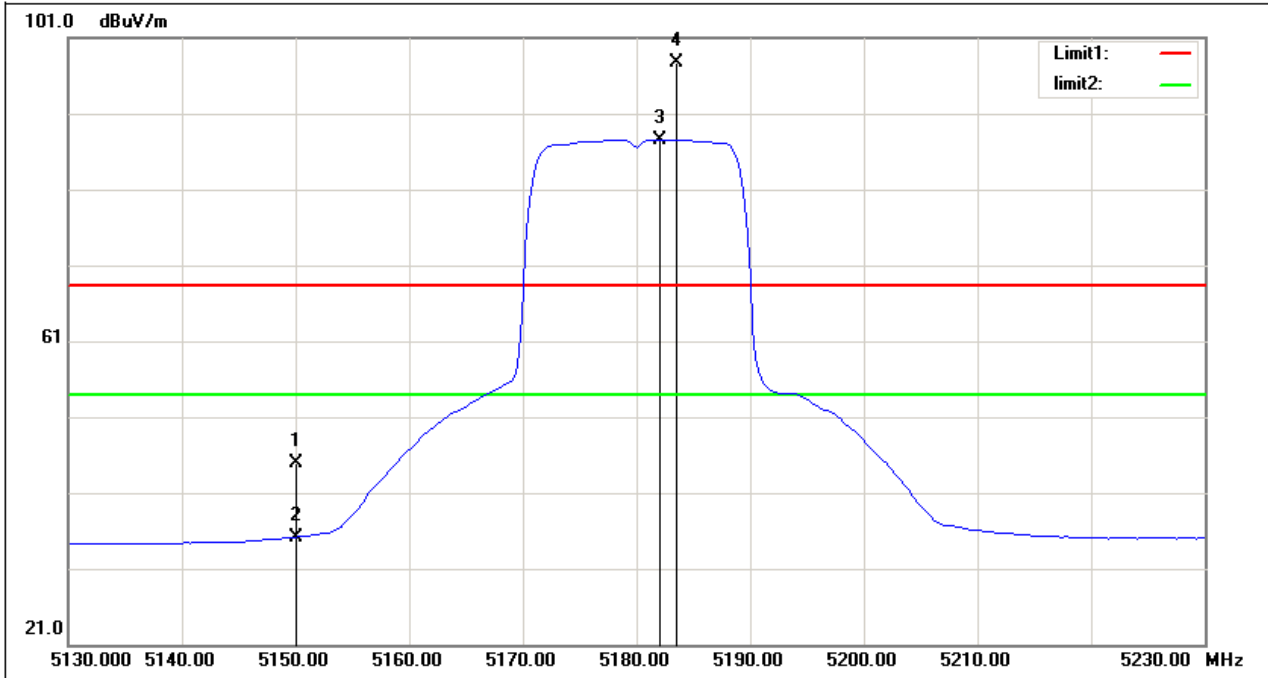
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	9.55	34.94	44.49	68.30	-23.81	peak
2	5150.000	-0.78	34.94	34.16	54.00	-19.84	AVG
3	5174.500	54.15	35.01	89.16	/	/	peak
4	5178.750	44.02	35.02	79.04	/	/	AVG

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

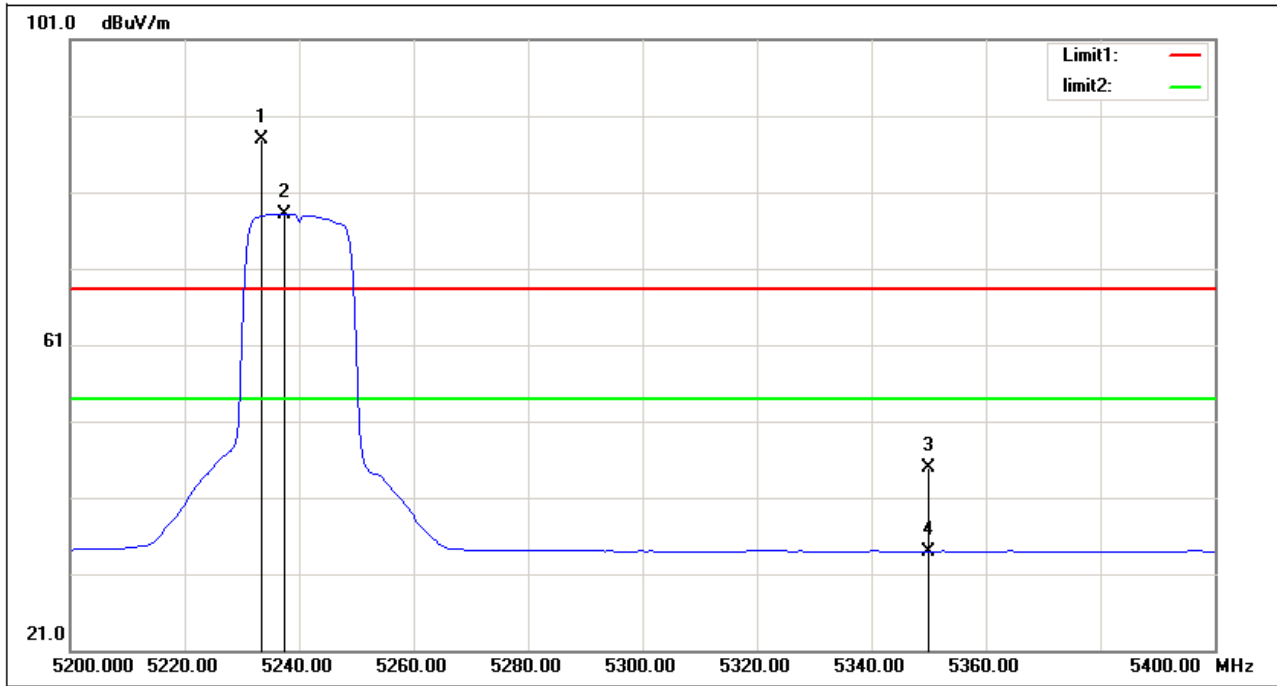
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	10.00	34.94	44.94	68.30	-23.36	peak
2	5150.000	0.22	34.94	35.16	54.00	-18.84	AVG
3	5182.000	52.53	35.03	87.56	/	/	AVG
4	5183.500	62.57	35.04	97.61	/	/	peak

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

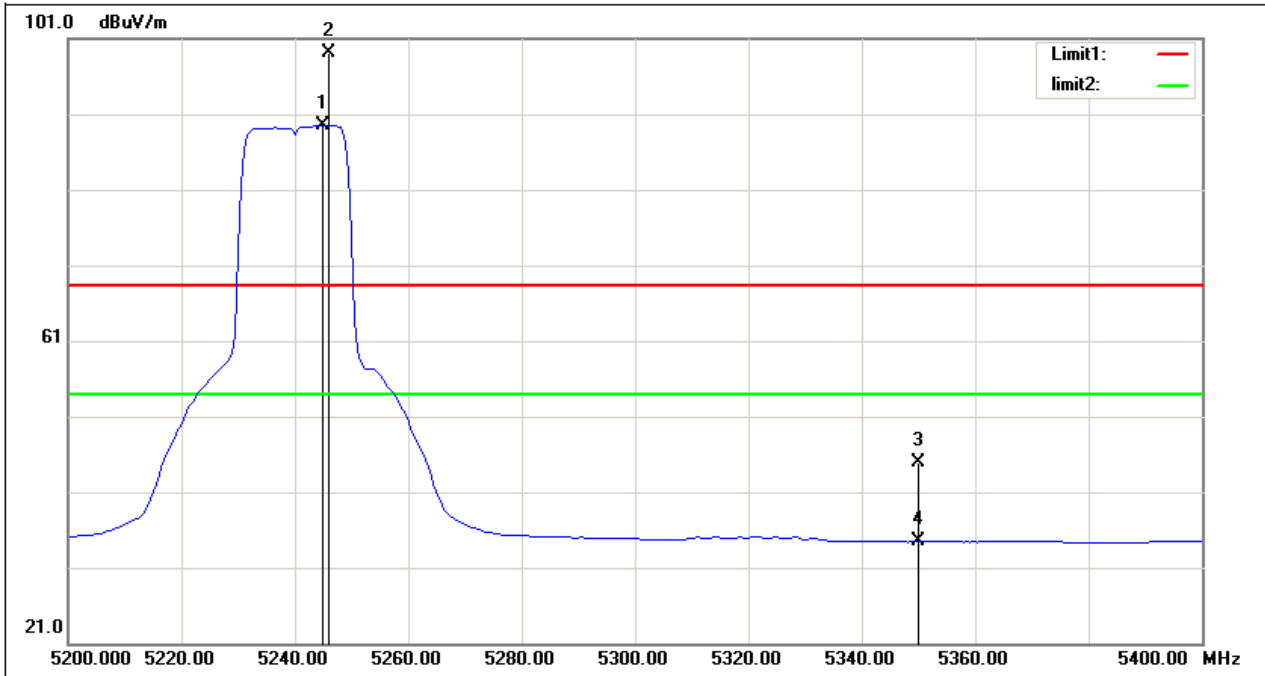
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5233.500	52.75	35.18	87.93	/	/	peak
2	5237.500	43.00	35.19	78.19	/	/	AVG
3	5350.000	9.45	35.50	44.95	68.30	-23.35	peak
4	5350.000	-1.57	35.50	33.93	54.00	-20.07	AVG

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

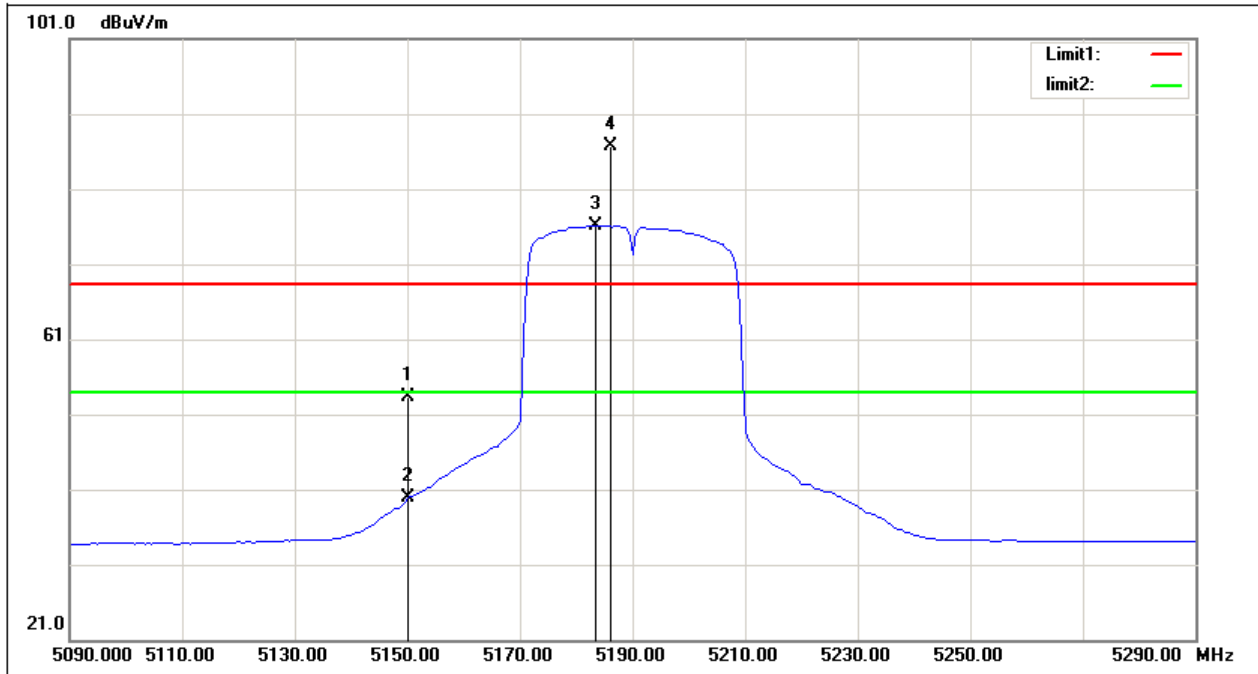
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5245.000	54.33	35.21	89.54	/	/	AVG
2	5246.000	63.93	35.21	99.14	/	/	peak
3	5350.000	9.38	35.50	44.88	68.30	-23.42	peak
4	5350.000	-1.05	35.50	34.45	54.00	-19.55	AVG

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

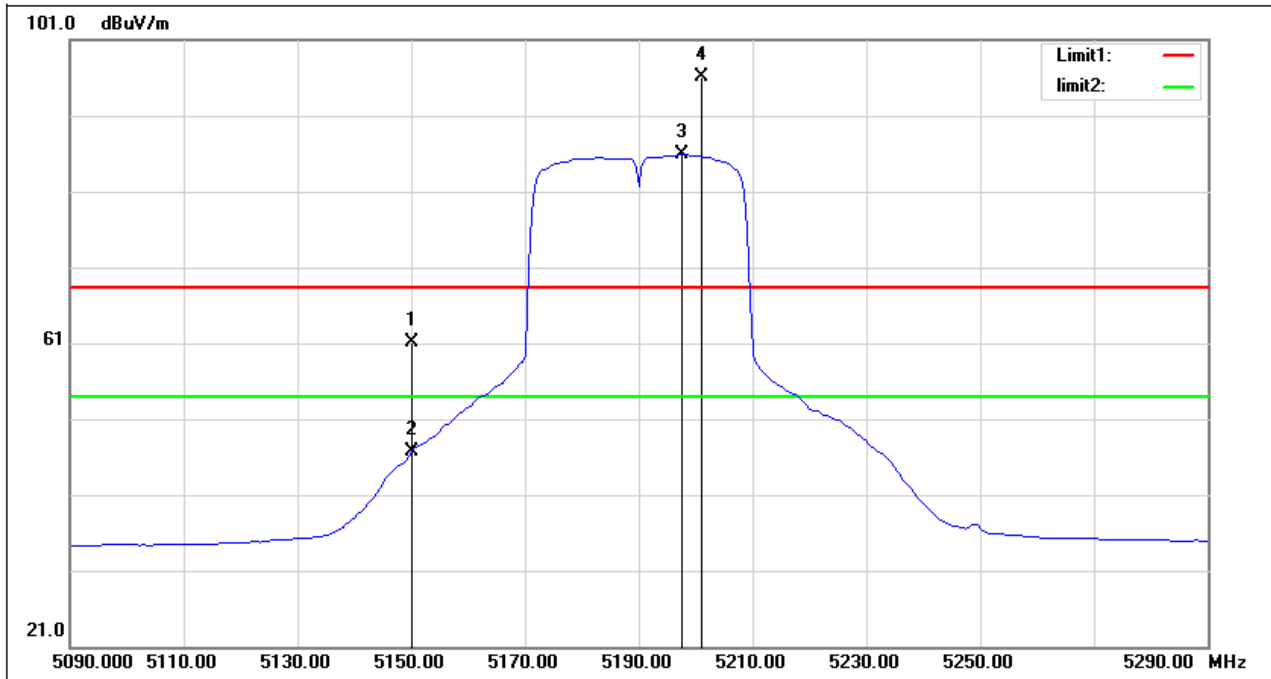
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	18.43	34.94	53.37	68.30	-14.93	peak
2	5150.000	4.88	34.94	39.82	54.00	-14.18	AVG
3	5183.500	41.09	35.04	76.13	/	/	AVG
4	5186.000	51.72	35.05	86.77	/	/	peak

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

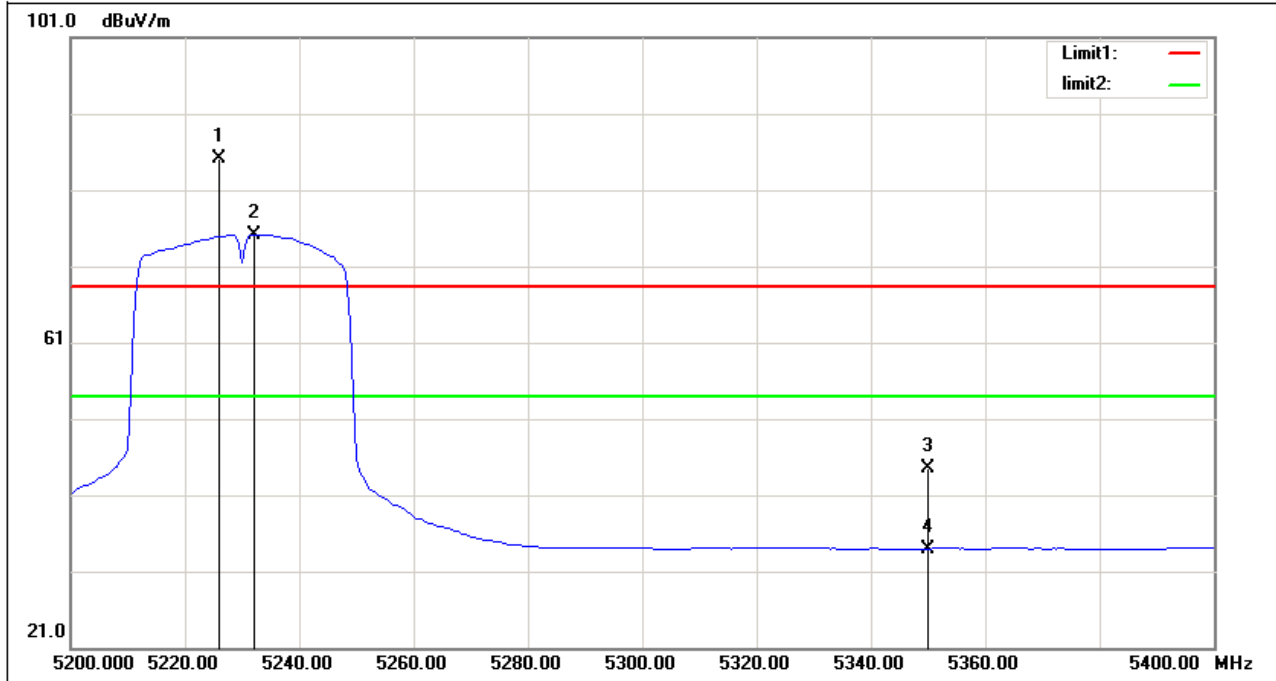
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	26.11	34.94	61.05	68.30	-7.25	peak
2	5150.000	11.86	34.94	46.80	54.00	-7.20	AVG
3	5197.500	50.81	35.07	85.88	/	/	AVG
4	5201.000	60.93	35.08	96.01	/	/	peak

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

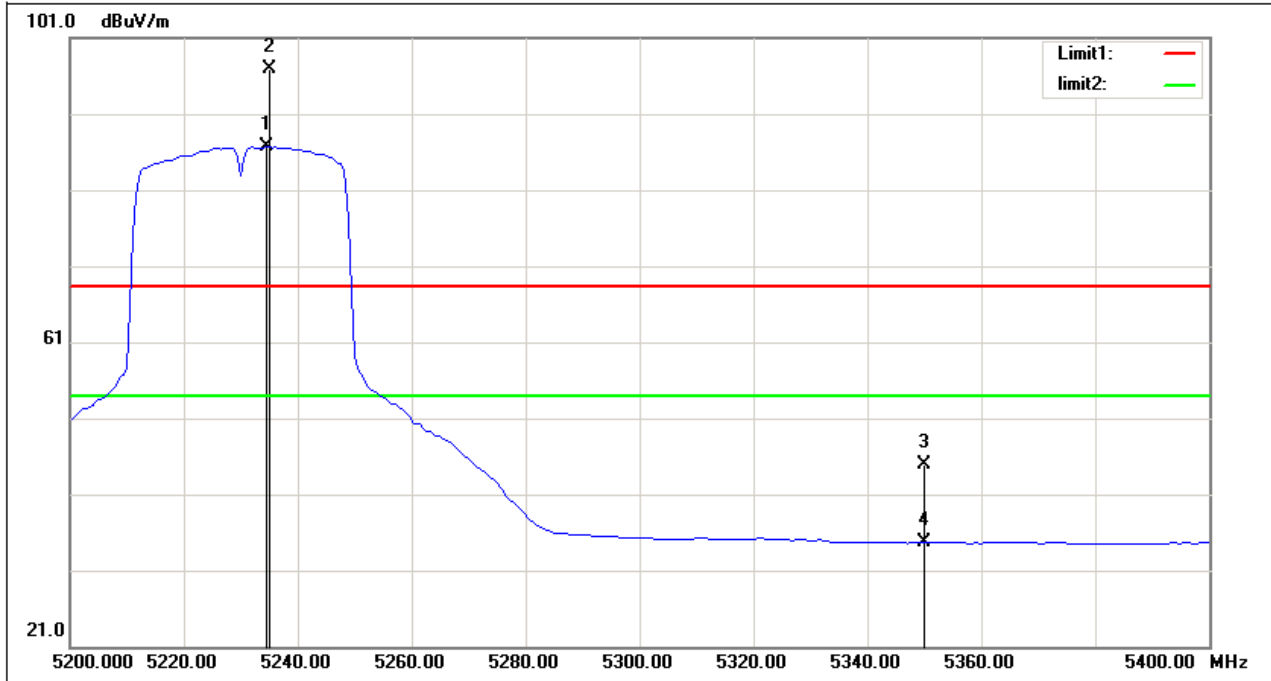
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5226.000	50.05	35.15	85.20	/	/	peak
2	5232.000	39.98	35.18	75.16	/	/	AVG
3	5350.000	8.94	35.50	44.44	68.30	-23.86	peak
4	5350.000	-1.54	35.50	33.96	54.00	-20.04	AVG

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

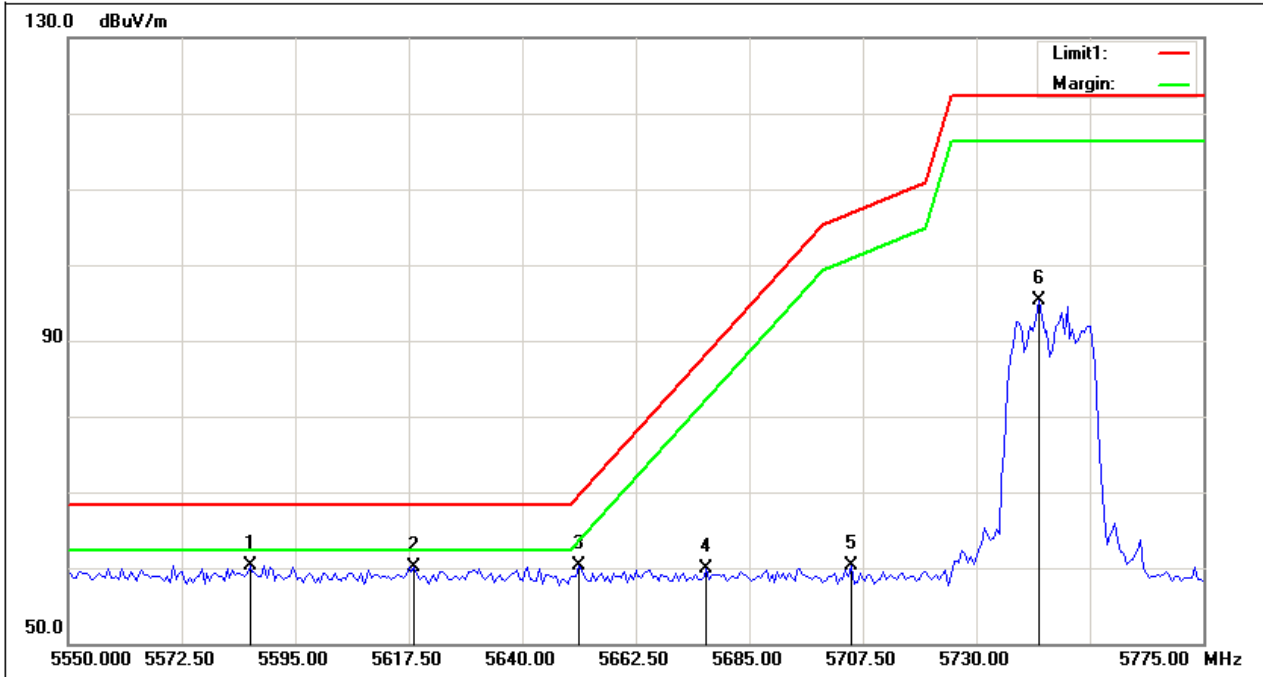
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5234.500	51.49	35.18	86.67	/	/	AVG
2	5235.000	61.75	35.18	96.93	/	/	peak
3	5350.000	9.40	35.50	44.90	68.30	-23.40	peak
4	5350.000	-0.86	35.50	34.64	54.00	-19.36	AVG

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

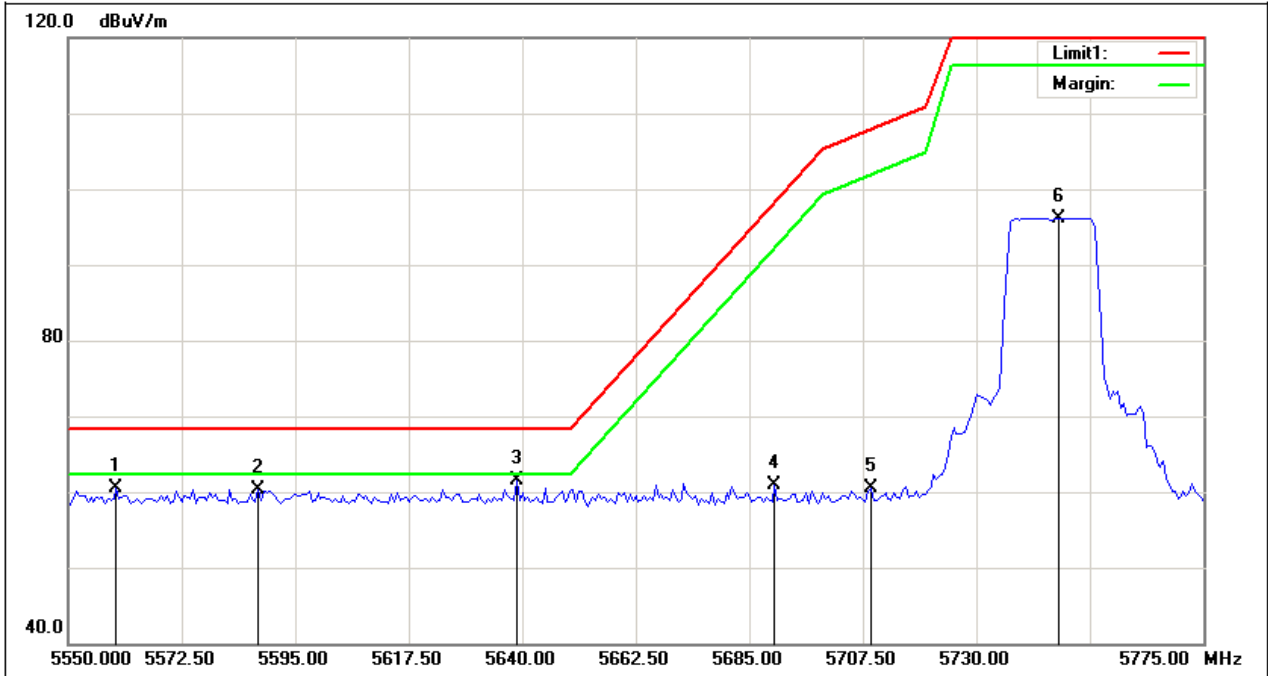
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5586.000	24.49	35.89	60.38	68.30	-7.92	peak
2	5618.625	24.30	35.87	60.17	68.30	-8.13	peak
3	5651.250	24.39	35.87	60.26	69.22	-8.96	peak
4	5676.563	24.09	35.86	59.95	87.96	-28.01	peak
5	5705.250	24.42	35.85	60.27	106.77	-46.50	peak
6	5742.375	59.39	35.83	95.22	122.30	-27.08	peak

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

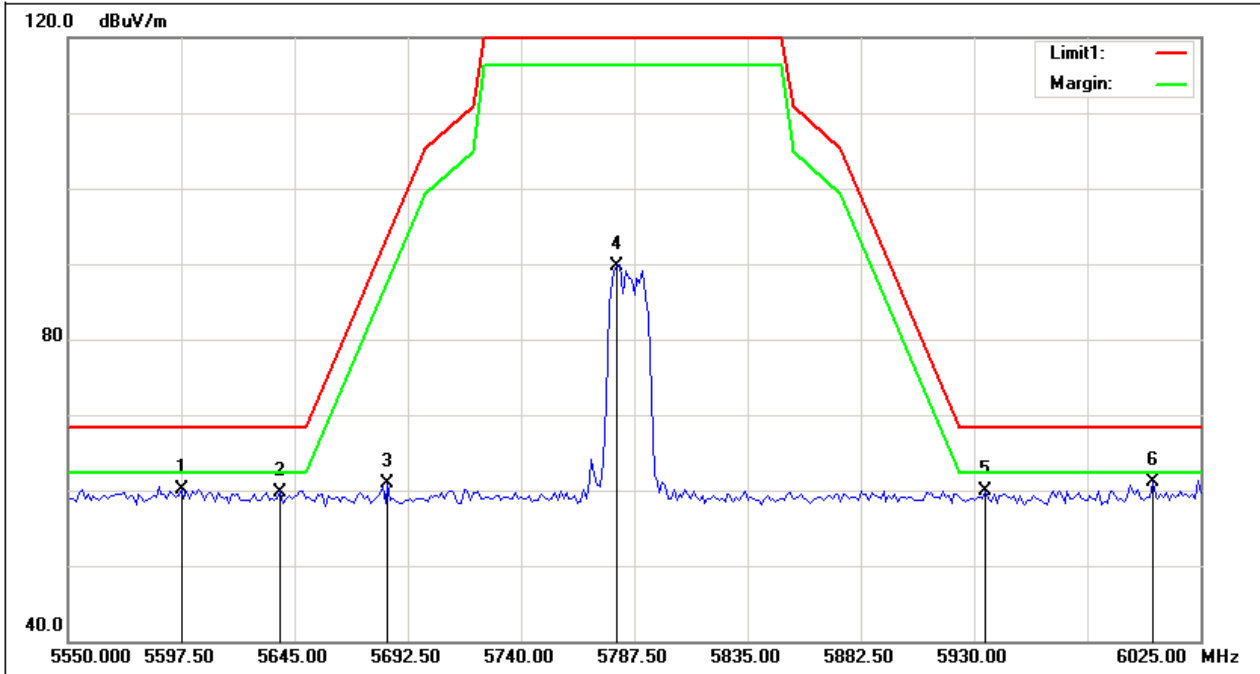
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5559.563	24.54	35.90	60.44	68.30	-7.86	peak
2	5587.688	24.43	35.89	60.32	68.30	-7.98	peak
3	5638.875	25.68	35.87	61.55	68.30	-6.75	peak
4	5690.063	25.07	35.85	60.92	97.95	-37.03	peak
5	5709.188	24.68	35.84	60.52	107.87	-47.35	peak
6	5746.313	60.34	35.83	96.17	122.30	-26.13	peak

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

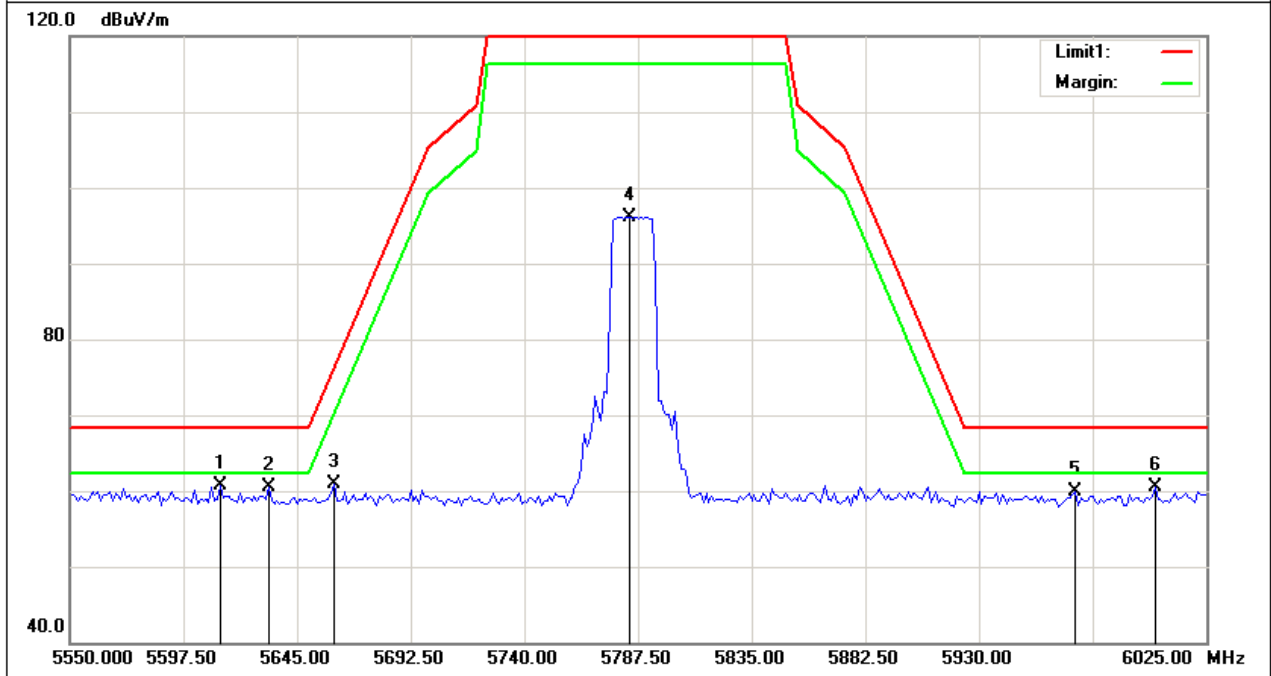
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5597.500	24.16	35.88	60.04	68.30	-8.26	peak
2	5639.063	23.93	35.87	59.80	68.30	-8.50	peak
3	5684.188	25.05	35.85	60.90	93.60	-32.70	peak
4	5780.375	53.94	35.82	89.76	122.30	-32.54	peak
5	5934.750	24.22	35.75	59.97	68.30	-8.33	peak
6	6004.813	25.37	35.75	61.12	68.30	-7.18	peak

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

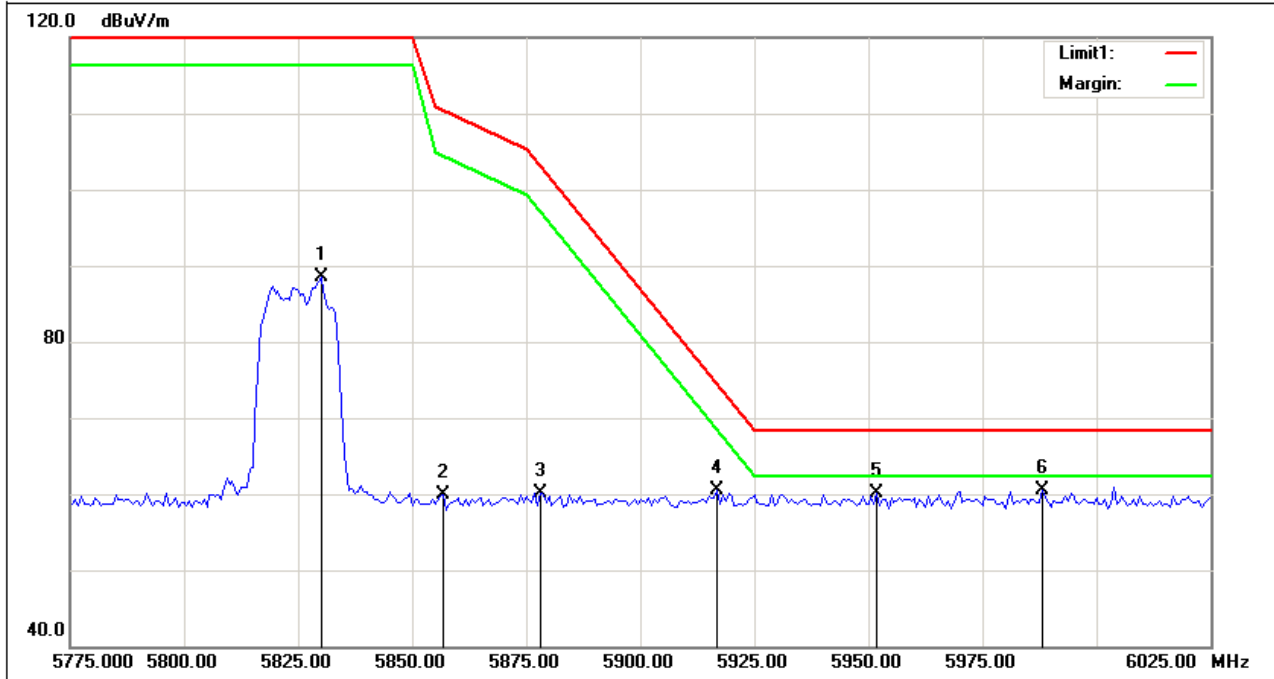
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5612.938	24.84	35.88	60.72	68.30	-7.58	peak
2	5633.125	24.62	35.87	60.49	68.30	-7.81	peak
3	5660.438	25.10	35.86	60.96	76.02	-15.06	peak
4	5783.938	60.33	35.81	96.14	122.30	-26.16	peak
5	5970.375	24.09	35.74	59.83	68.30	-8.47	peak
6	6003.625	24.73	35.75	60.48	68.30	-7.82	peak

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

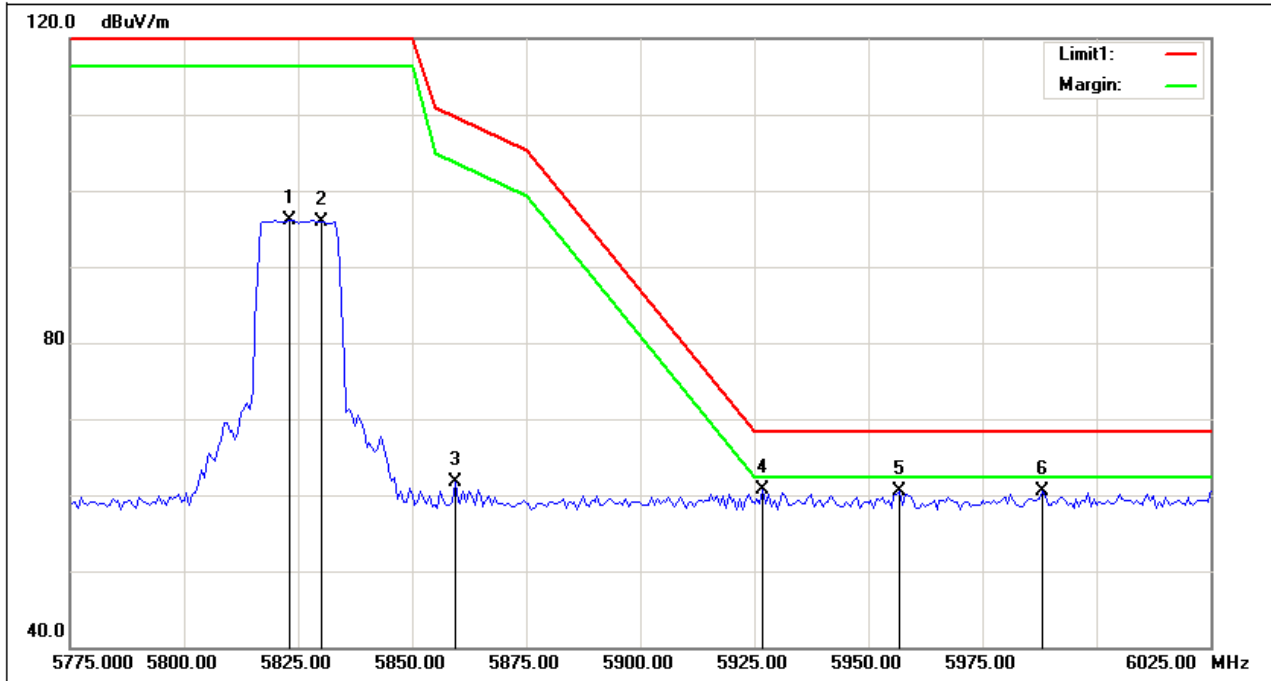
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.000	52.75	35.80	88.55	122.30	-33.75	peak
2	5856.875	24.15	35.78	59.93	110.37	-50.44	peak
3	5878.125	24.23	35.78	60.01	102.99	-42.98	peak
4	5916.875	24.67	35.77	60.44	74.31	-13.87	peak
5	5951.875	24.33	35.75	60.08	68.30	-8.22	peak
6	5988.125	24.83	35.74	60.57	68.30	-7.73	peak

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

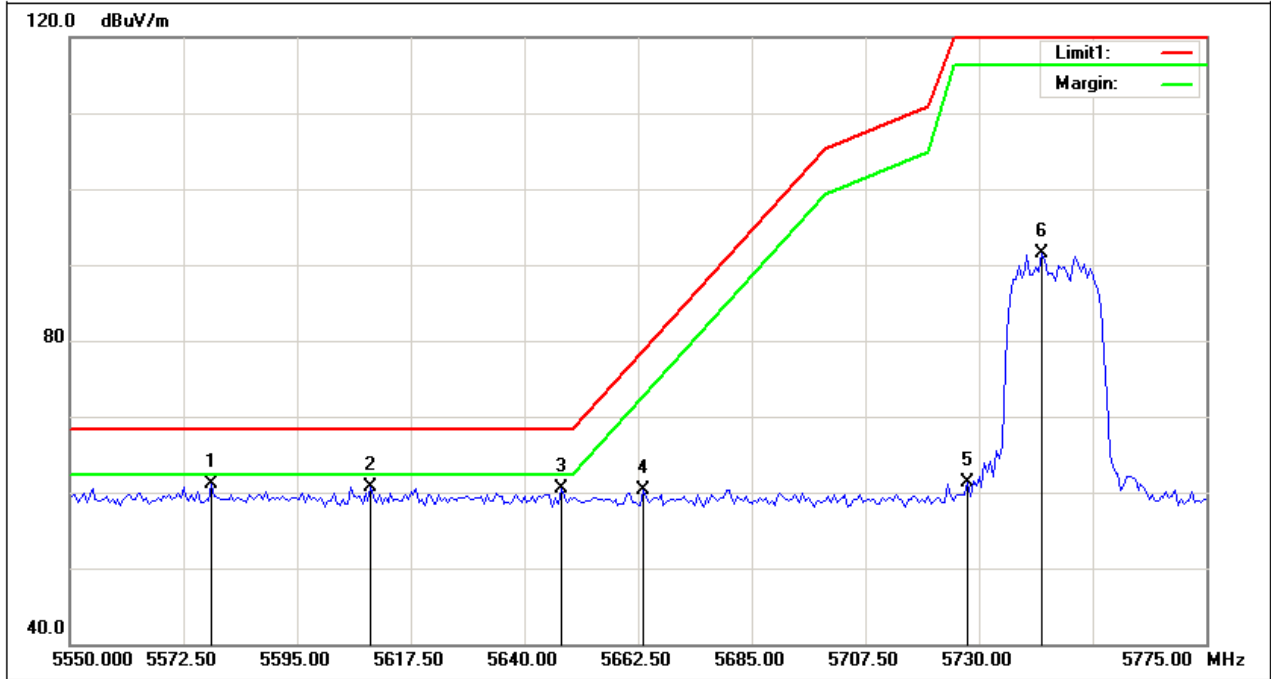
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.125	60.29	35.80	96.09	122.30	-26.21	peak
2	5830.000	60.12	35.80	95.92	122.30	-26.38	peak
3	5859.375	25.84	35.78	61.62	109.67	-48.05	peak
4	5926.875	24.90	35.76	60.66	68.30	-7.64	peak
5	5956.875	24.78	35.74	60.52	68.30	-7.78	peak
6	5988.125	24.74	35.74	60.48	68.30	-7.82	peak

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

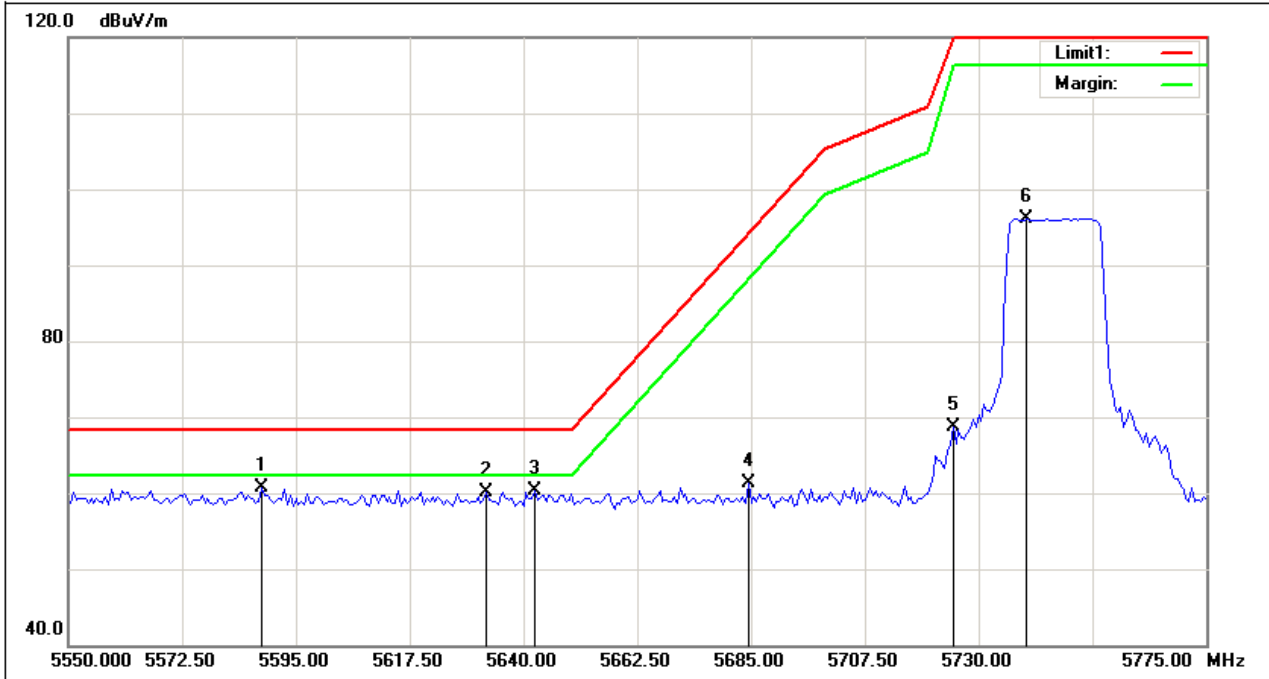
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5578.125	25.15	35.90	61.05	68.30	-7.25	peak
2	5609.625	24.88	35.88	60.76	68.30	-7.54	peak
3	5647.313	24.54	35.87	60.41	68.30	-7.89	peak
4	5663.625	24.36	35.86	60.22	78.38	-18.16	peak
5	5727.750	25.46	35.84	61.30	122.30	-61.00	peak
6	5742.375	55.69	35.83	91.52	122.30	-30.78	peak

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

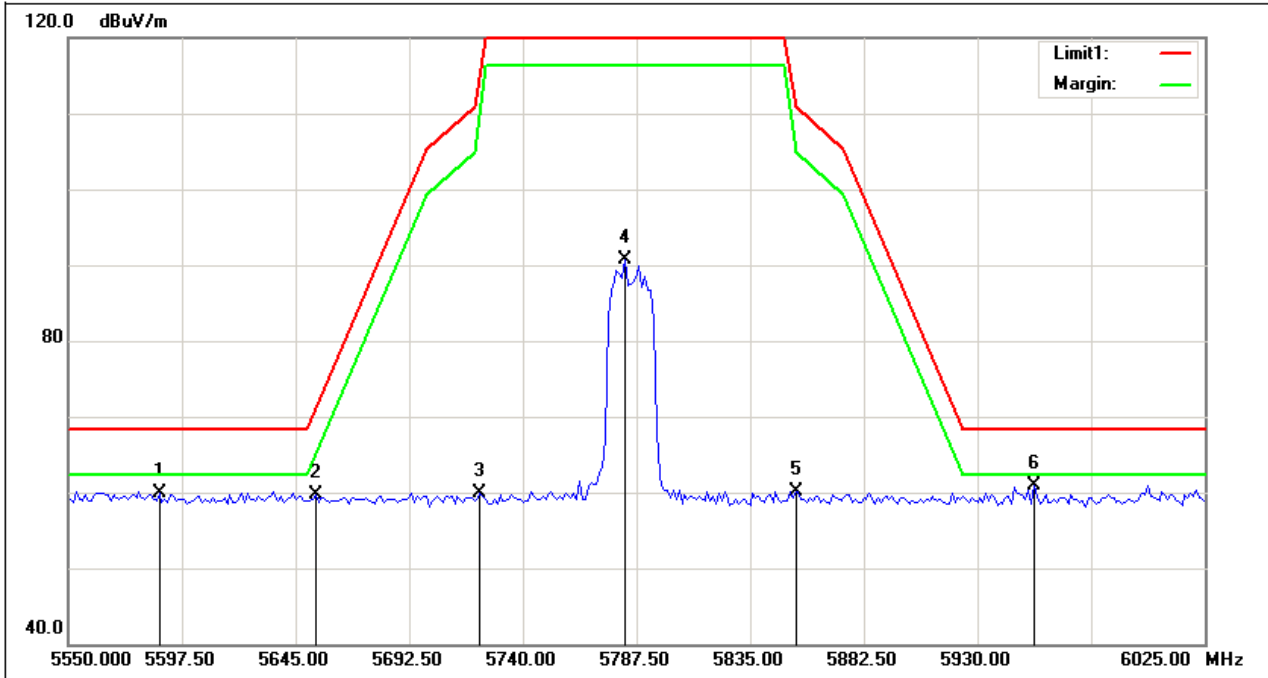
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5588.250	24.91	35.89	60.80	68.30	-7.50	peak
2	5632.688	24.19	35.87	60.06	68.30	-8.24	peak
3	5642.250	24.43	35.87	60.30	68.30	-8.00	peak
4	5684.438	25.45	35.85	61.30	93.78	-32.48	peak
5	5724.938	32.88	35.84	68.72	122.16	-53.44	peak
6	5739.563	60.21	35.83	96.04	122.30	-26.26	peak

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

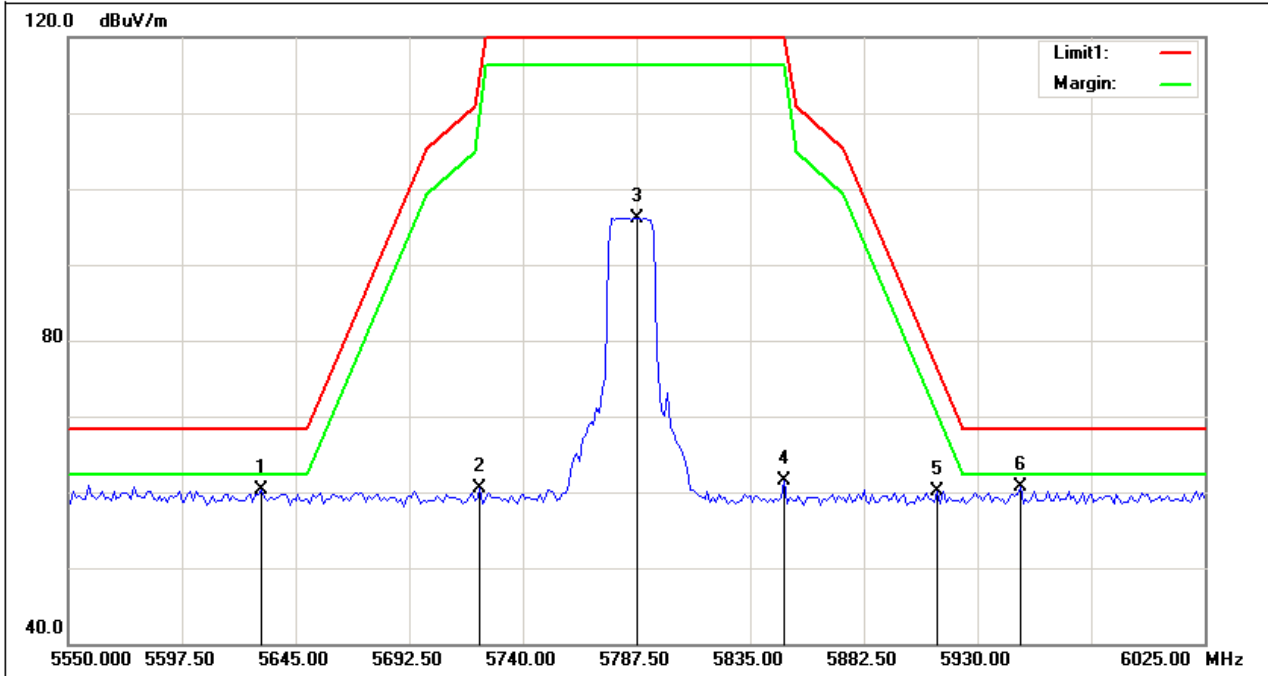
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5588.000	23.95	35.89	59.84	68.30	-8.46	peak
2	5653.313	23.78	35.87	59.65	70.75	-11.10	peak
3	5722.188	24.10	35.84	59.94	115.89	-55.95	peak
4	5782.750	54.87	35.81	90.68	122.30	-31.62	peak
5	5854.000	24.36	35.79	60.15	113.18	-53.03	peak
6	5953.750	25.10	35.75	60.85	68.30	-7.45	peak

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

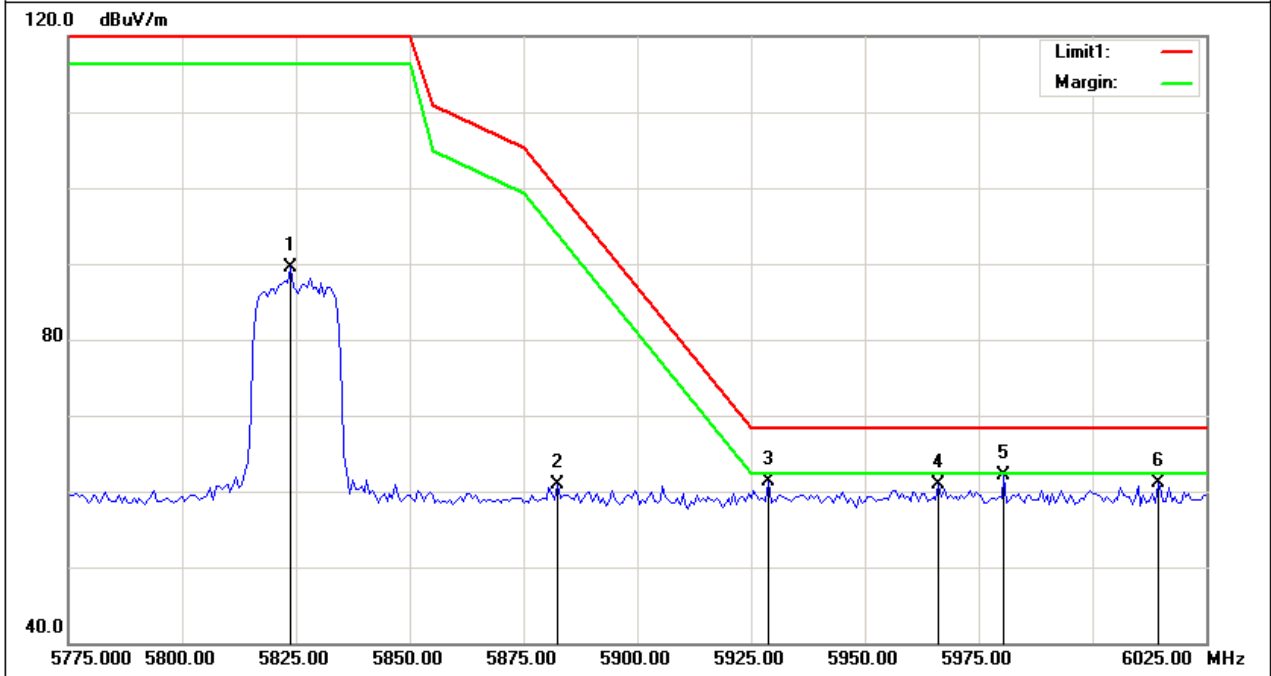
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5630.750	24.38	35.88	60.26	68.30	-8.04	peak
2	5722.188	24.61	35.84	60.45	115.89	-55.44	peak
3	5787.500	60.27	35.81	96.08	122.30	-26.22	peak
4	5849.250	25.70	35.79	61.49	122.30	-60.81	peak
5	5913.375	24.36	35.76	60.12	76.90	-16.78	peak
6	5947.813	25.03	35.75	60.78	68.30	-7.52	peak

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

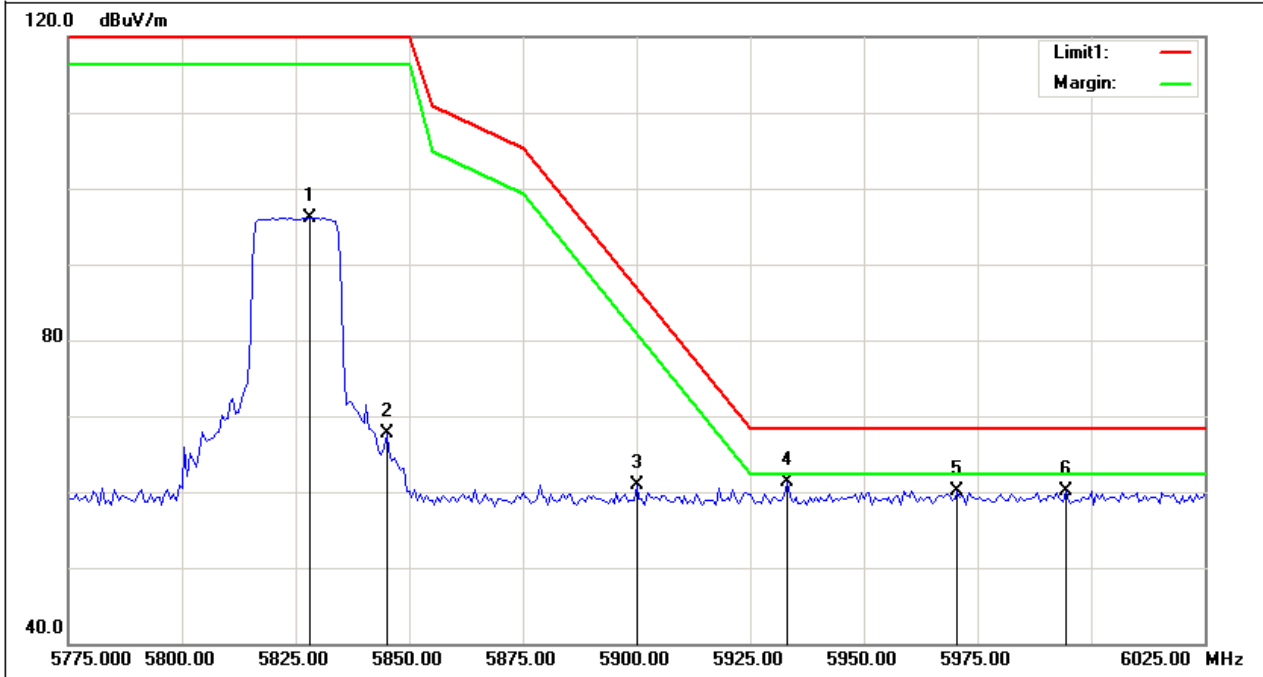
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5823.750	53.67	35.80	89.47	122.30	-32.83	peak
2	5882.500	25.12	35.77	60.89	99.75	-38.86	peak
3	5928.750	25.47	35.76	61.23	68.30	-7.07	peak
4	5966.250	25.10	35.75	60.85	68.30	-7.45	peak
5	5980.625	26.29	35.74	62.03	68.30	-6.27	peak
6	6014.375	25.39	35.80	61.19	68.30	-7.11	peak

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

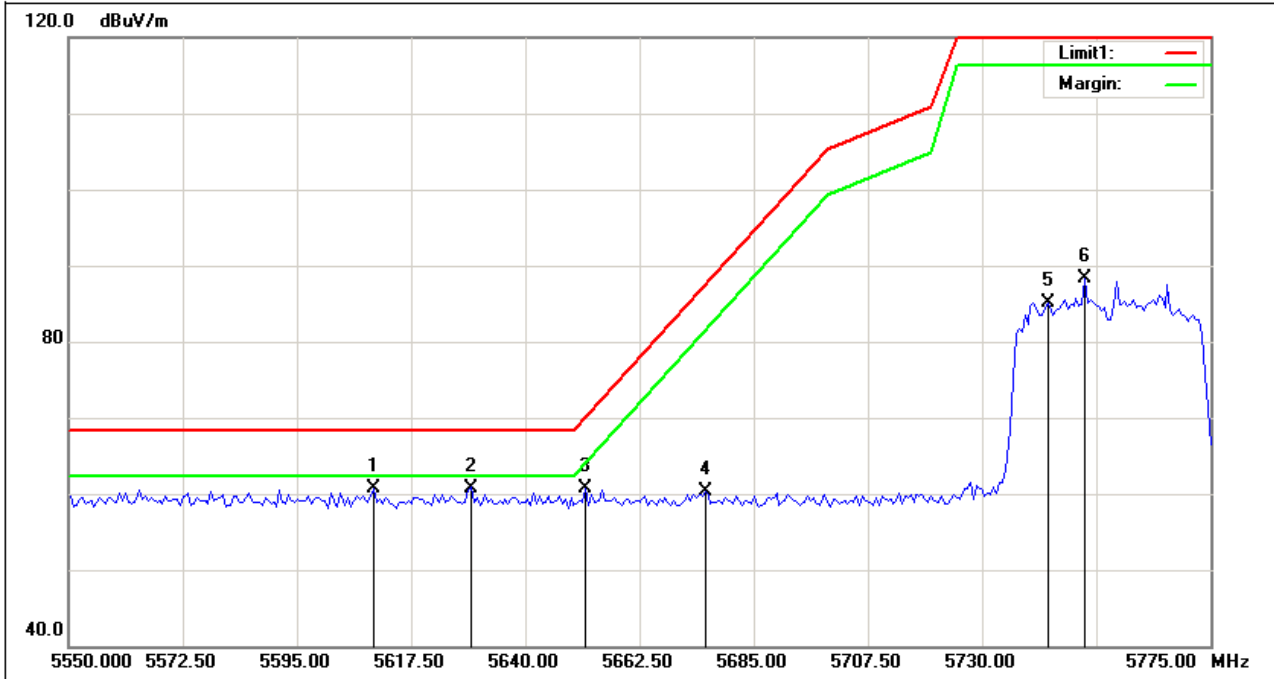
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5828.125	60.29	35.80	96.09	122.30	-26.21	peak
2	5845.000	31.96	35.79	67.75	122.30	-54.55	peak
3	5900.000	25.04	35.77	60.81	86.80	-25.99	peak
4	5933.125	25.50	35.75	61.25	68.30	-7.05	peak
5	5970.625	24.27	35.74	60.01	68.30	-8.29	peak
6	5994.375	24.36	35.73	60.09	68.30	-8.21	peak

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

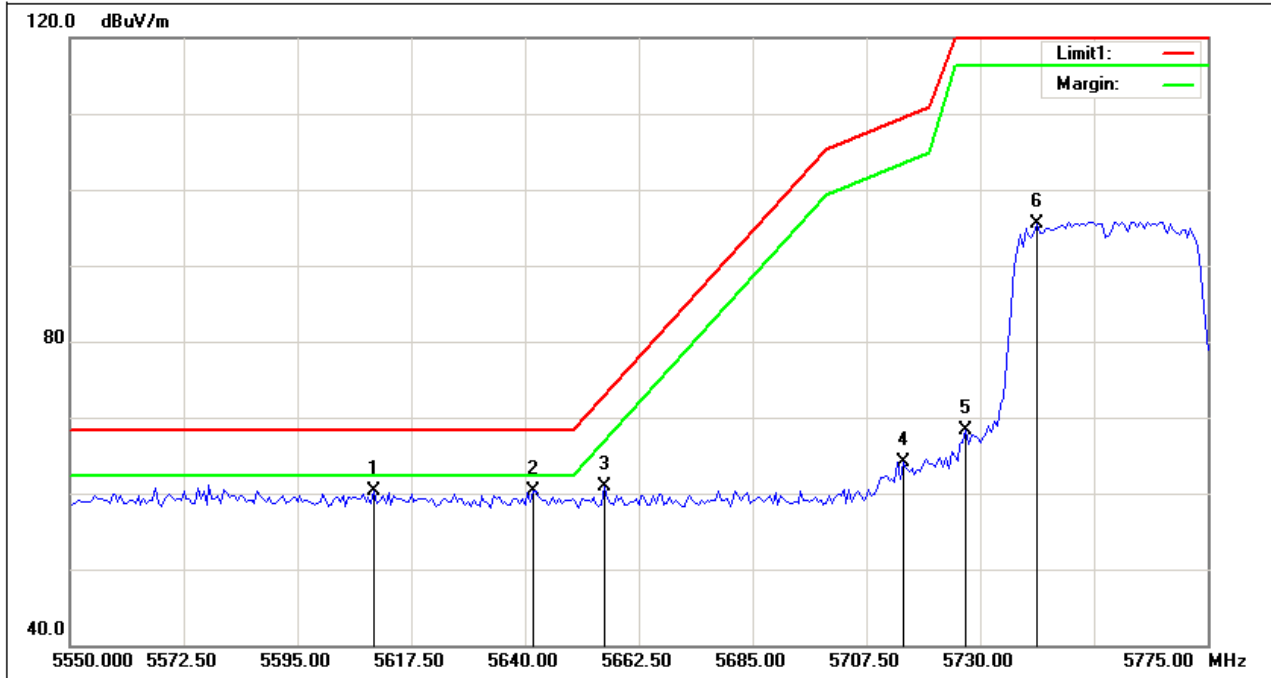
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.188	24.83	35.88	60.71	68.30	-7.59	peak
2	5629.313	24.92	35.88	60.80	68.30	-7.50	peak
3	5651.813	24.87	35.87	60.74	69.64	-8.90	peak
4	5675.438	24.51	35.86	60.37	87.12	-26.75	peak
5	5742.938	49.30	35.83	85.13	122.30	-37.17	peak
6	5750.250	52.38	35.83	88.21	122.30	-34.09	peak

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

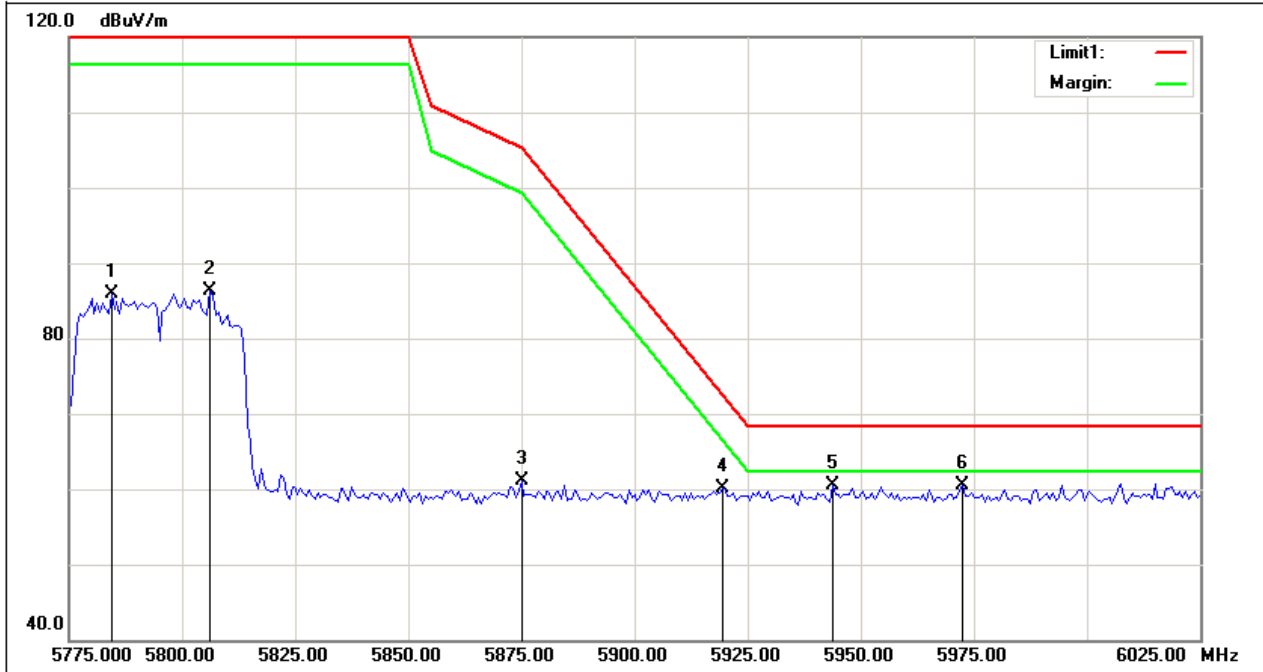
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.188	24.36	35.88	60.24	68.30	-8.06	peak
2	5641.688	24.53	35.87	60.40	68.30	-7.90	peak
3	5655.750	25.10	35.87	60.97	72.55	-11.58	peak
4	5714.813	28.35	35.84	64.19	109.45	-45.26	peak
5	5727.188	32.41	35.84	68.25	122.30	-54.05	peak
6	5741.250	59.60	35.83	95.43	122.30	-26.87	peak

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

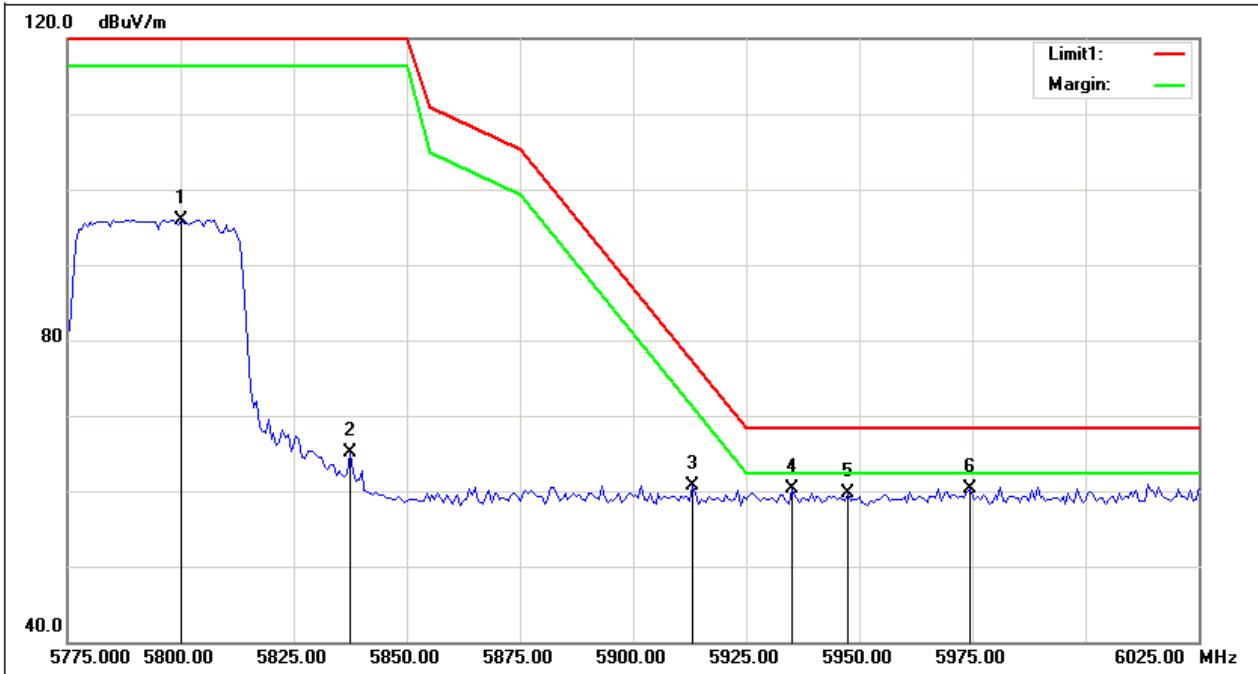
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5784.375	50.14	35.81	85.95	122.30	-36.35	peak
2	5806.250	50.46	35.80	86.26	122.30	-36.04	peak
3	5875.000	25.38	35.78	61.16	105.30	-44.14	peak
4	5919.375	24.33	35.76	60.09	72.46	-12.37	peak
5	5943.750	24.77	35.75	60.52	68.30	-7.78	peak
6	5972.500	24.67	35.74	60.41	68.30	-7.89	peak

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

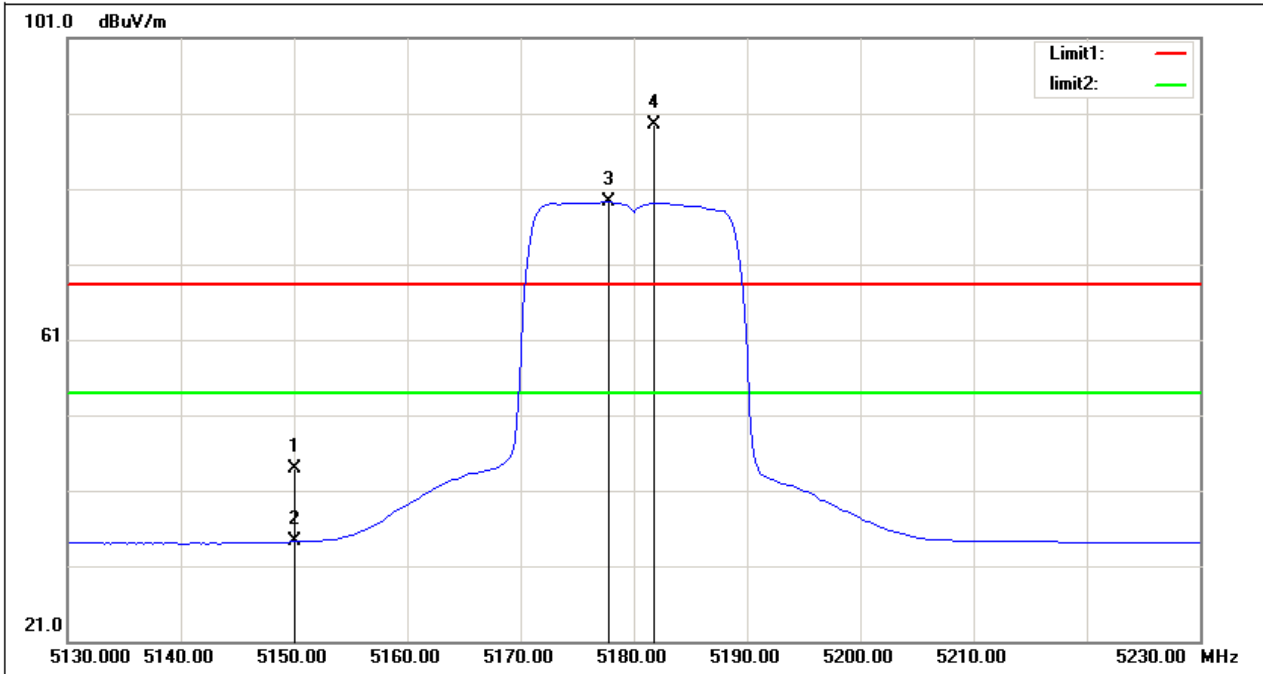
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5800.000	60.19	35.81	96.00	122.30	-26.30	peak
2	5837.500	29.40	35.79	65.19	122.30	-57.11	peak
3	5913.125	24.87	35.76	60.63	77.09	-16.46	peak
4	5935.000	24.61	35.75	60.36	68.30	-7.94	peak
5	5947.500	23.96	35.75	59.71	68.30	-8.59	peak
6	5974.375	24.50	35.74	60.24	68.30	-8.06	peak

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

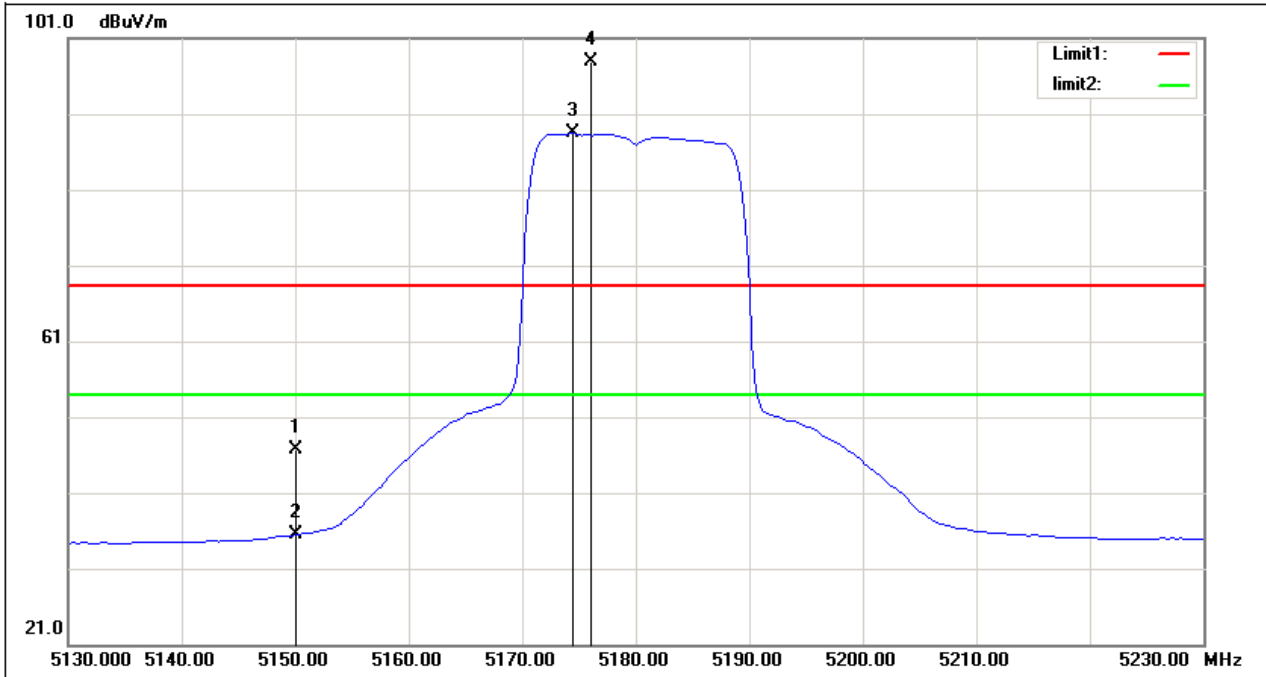
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	9.02	34.94	43.96	68.30	-24.34	peak
2	5150.000	-0.70	34.94	34.24	54.00	-19.76	AVG
3	5177.750	44.23	35.02	79.25	/	/	AVG
4	5181.750	54.40	35.03	89.43	/	/	peak

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

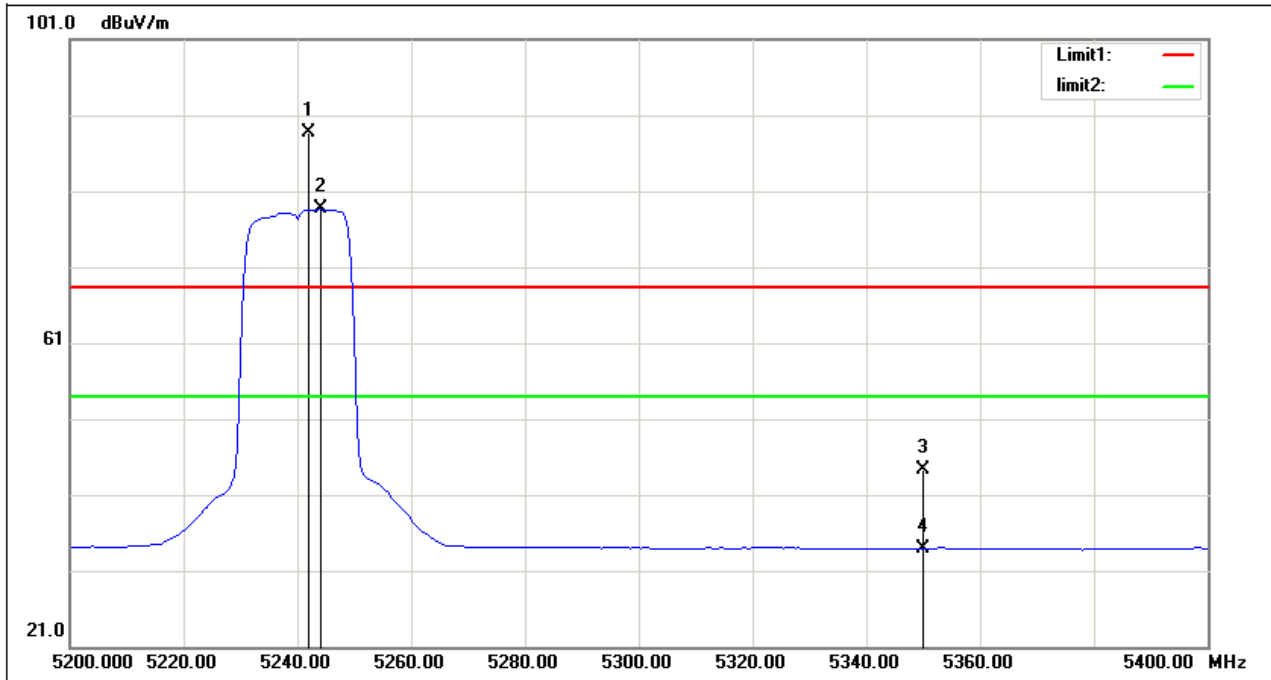
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	11.78	34.94	46.72	68.30	-21.58	peak
2	5150.000	0.51	34.94	35.45	54.00	-18.55	AVG
3	5174.500	53.40	35.01	88.41	/	/	AVG
4	5176.000	62.99	35.01	98.00	/	/	peak

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

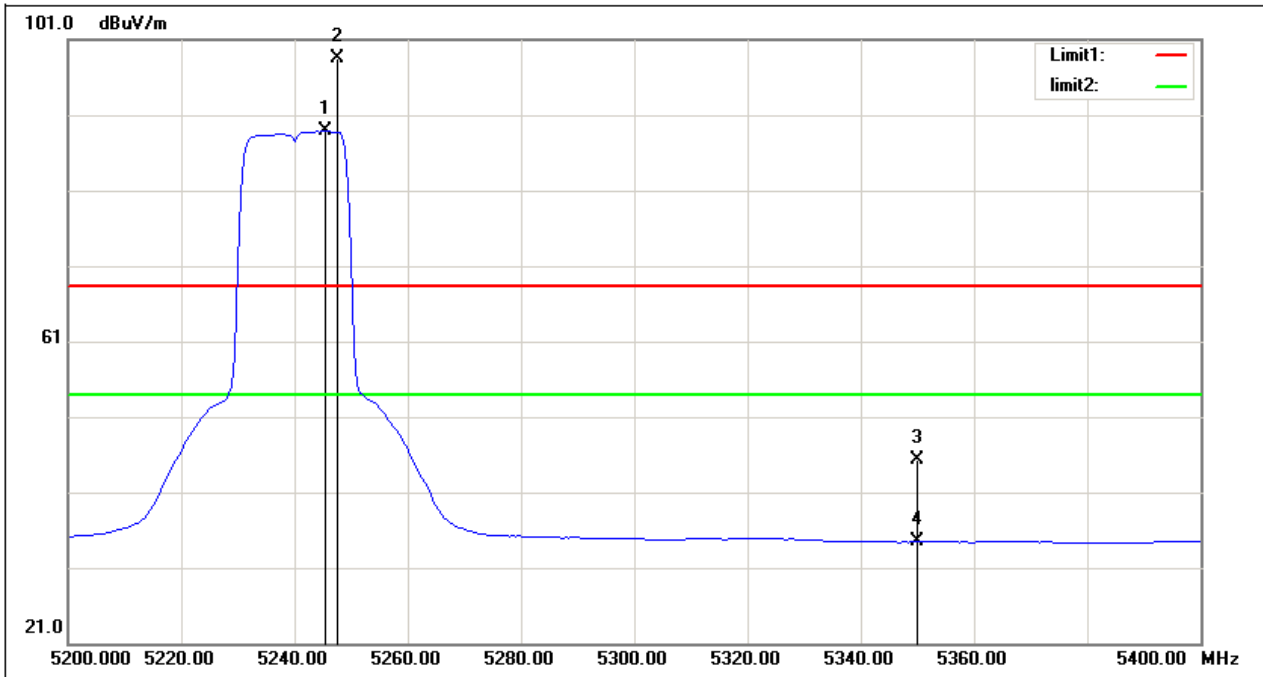
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5242.000	53.60	35.20	88.80	/	/	peak
2	5244.000	43.42	35.21	78.63	/	/	AVG
3	5350.000	8.83	35.50	44.33	68.30	-23.97	peak
4	5350.000	-1.60	35.50	33.90	54.00	-20.10	AVG

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

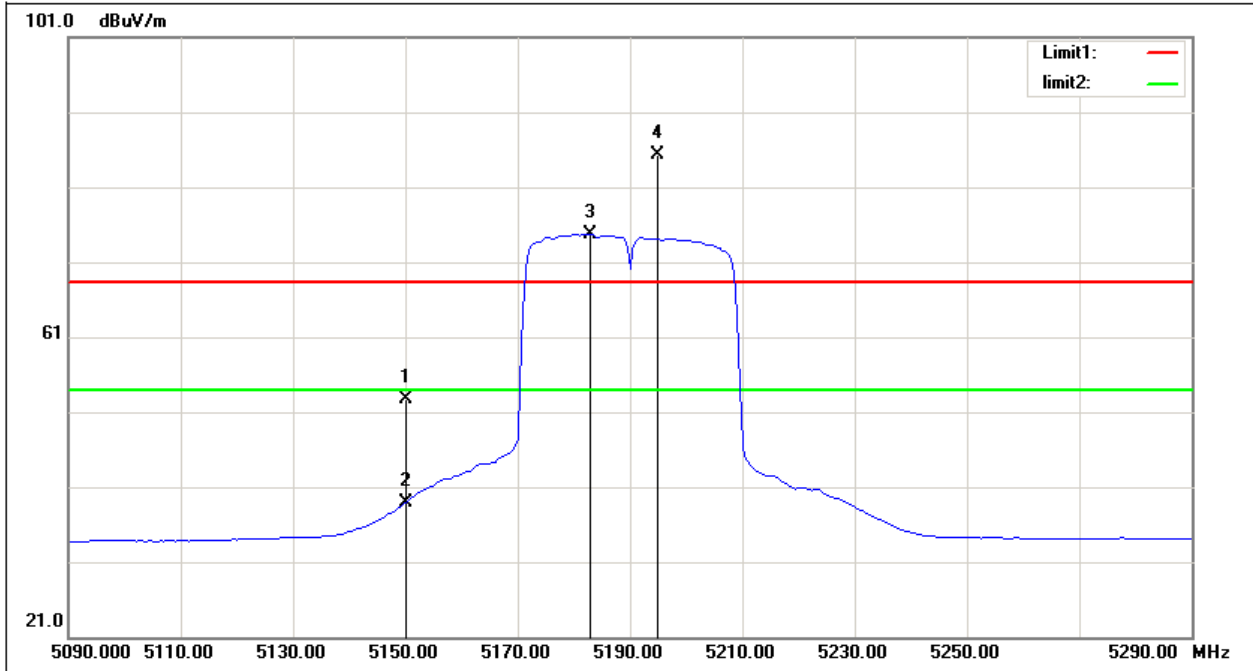
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5245.500	53.69	35.21	88.90	/	/	AVG
2	5247.500	63.26	35.21	98.47	/	/	peak
3	5350.000	9.72	35.50	45.22	68.30	-23.08	peak
4	5350.000	-1.04	35.50	34.46	54.00	-19.54	AVG

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

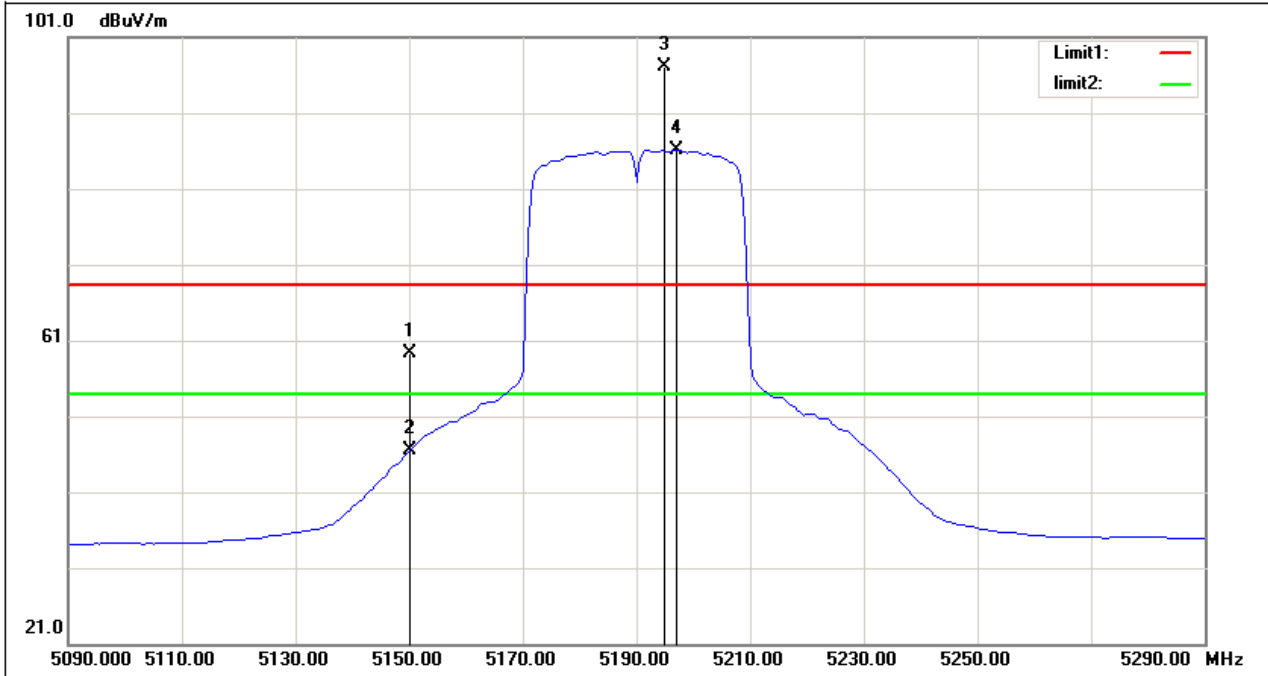
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	17.73	34.94	52.67	68.30	-15.63	peak
2	5150.000	3.96	34.94	38.90	54.00	-15.10	AVG
3	5183.000	39.67	35.03	74.70	/	/	AVG
4	5195.000	50.27	35.07	85.34	/	/	peak

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

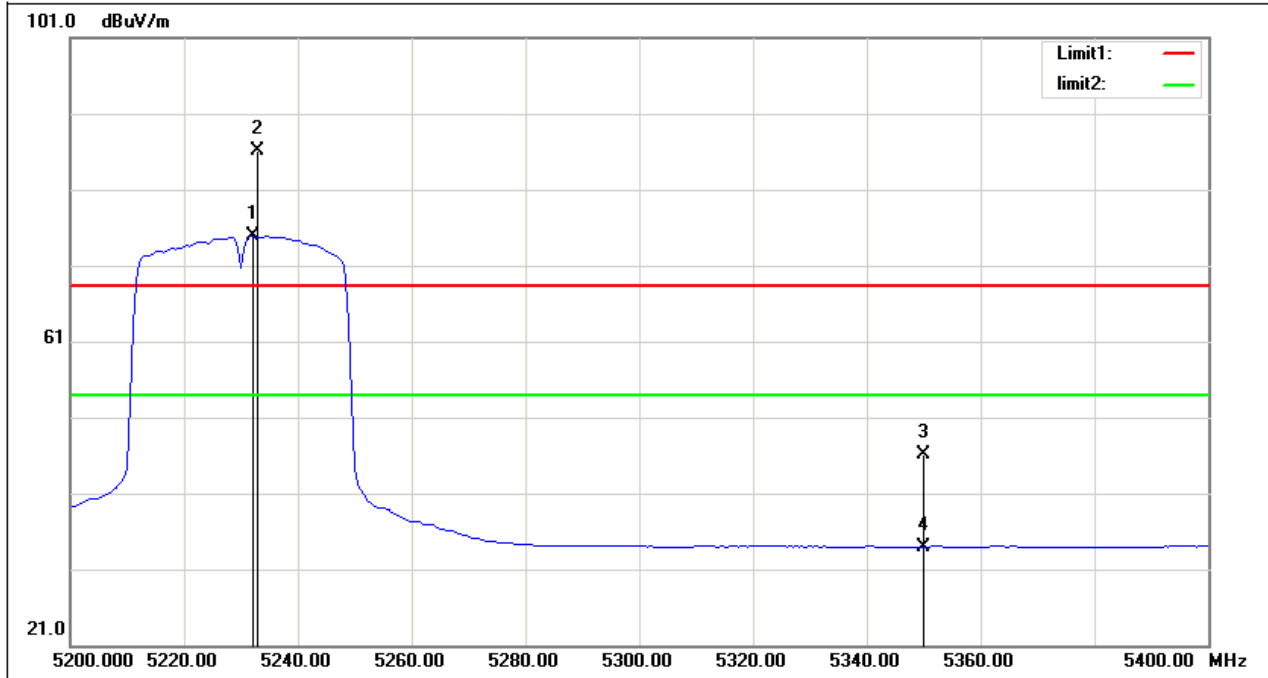
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	24.41	34.94	59.35	68.30	-8.95	peak
2	5150.000	11.49	34.94	46.43	54.00	-7.57	AVG
3	5195.000	62.04	35.07	97.11	/	/	peak
4	5197.000	51.02	35.07	86.09	/	/	AVG

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

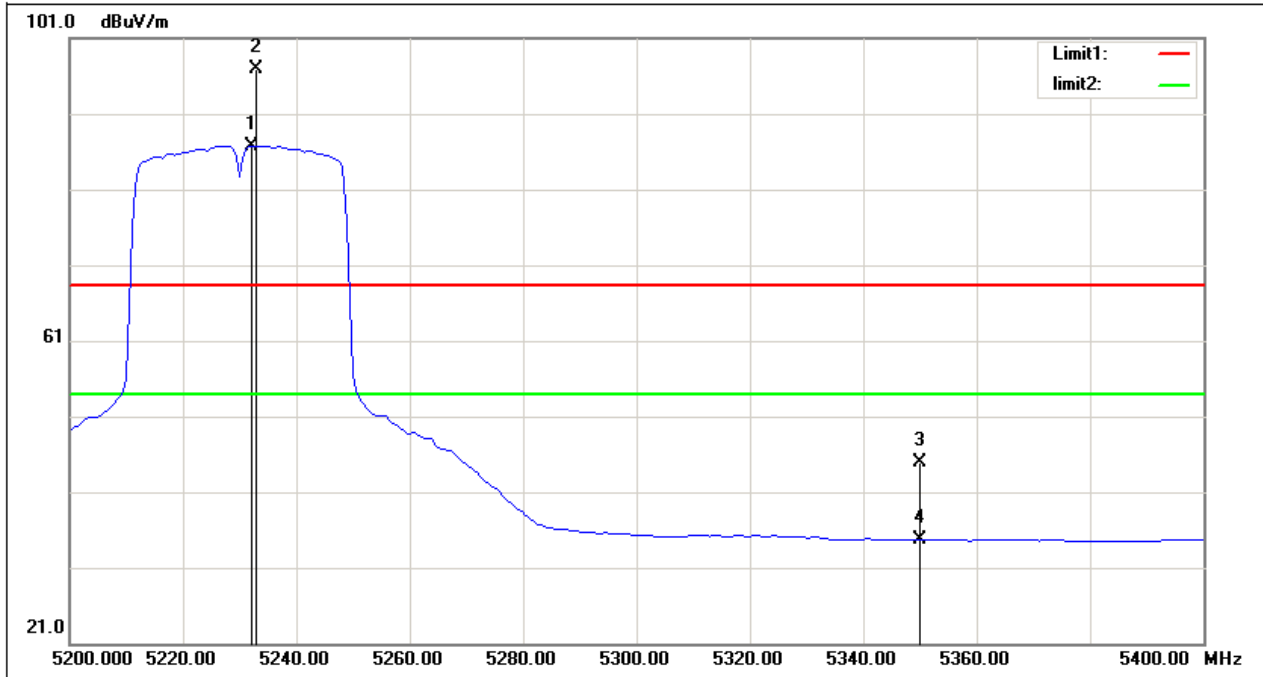
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5232.000	39.70	35.18	74.88	/	/	AVG
2	5233.000	50.93	35.18	86.11	/	/	peak
3	5350.000	10.55	35.50	46.05	68.30	-22.25	peak
4	5350.000	-1.52	35.50	33.98	54.00	-20.02	AVG

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

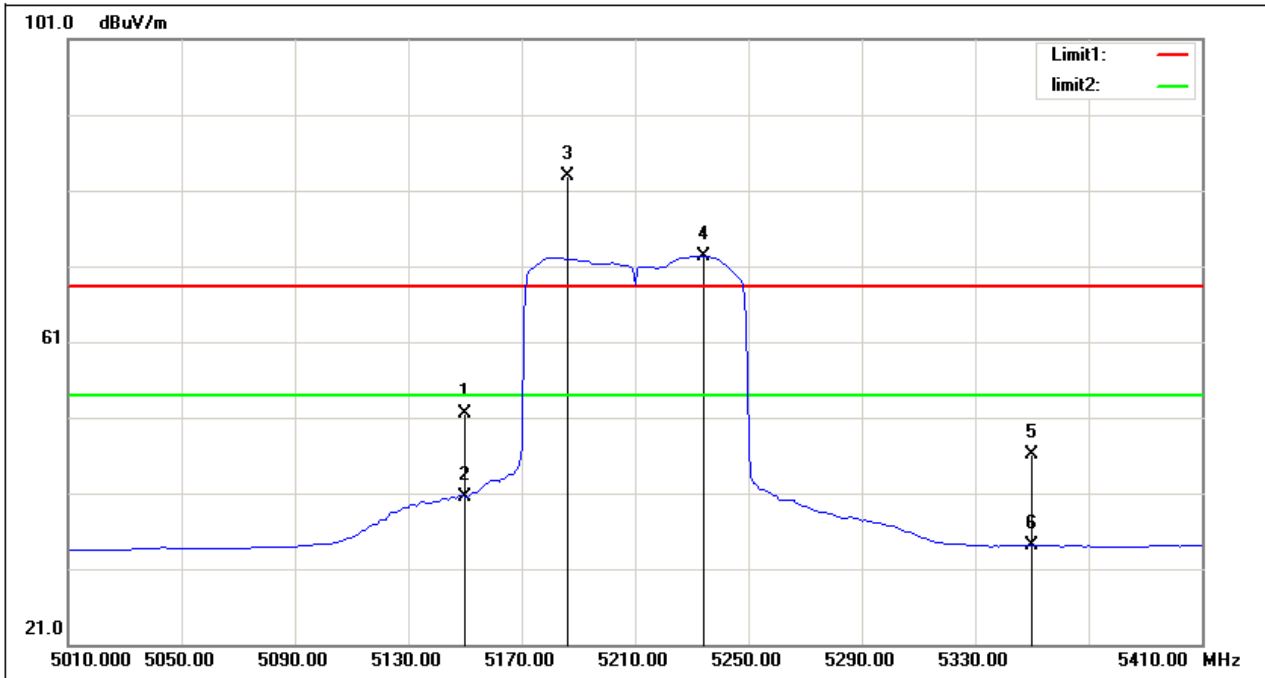
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5232.000	51.58	35.18	86.76	/	/	AVG
2	5233.000	61.81	35.18	96.99	/	/	peak
3	5350.000	9.48	35.50	44.98	68.30	-23.32	peak
4	5350.000	-0.82	35.50	34.68	54.00	-19.32	AVG

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

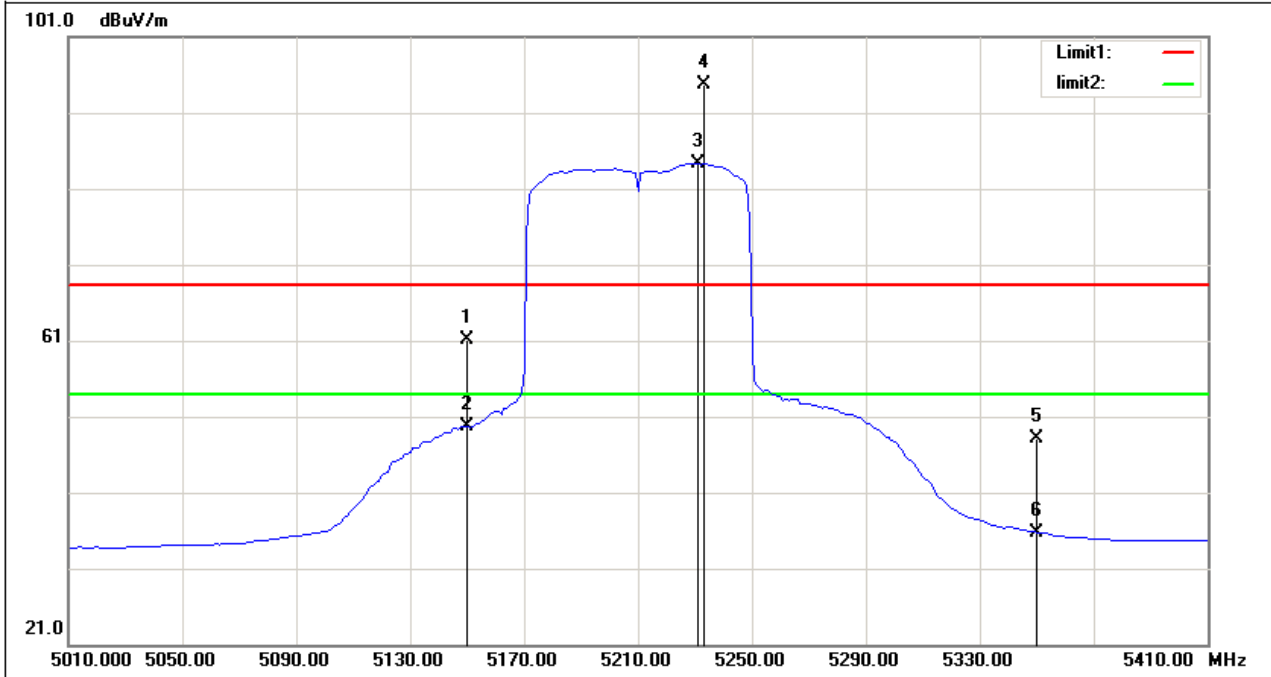
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	16.60	34.94	51.54	68.30	-16.76	peak
2	5150.000	5.65	34.94	40.59	54.00	-13.41	AVG
3	5186.000	47.79	35.05	82.84	/	/	peak
4	5234.000	37.16	35.18	72.34	/	/	AVG
5	5350.000	10.52	35.50	46.02	68.30	-22.28	peak
6	5350.000	-1.43	35.50	34.07	54.00	-19.93	AVG

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

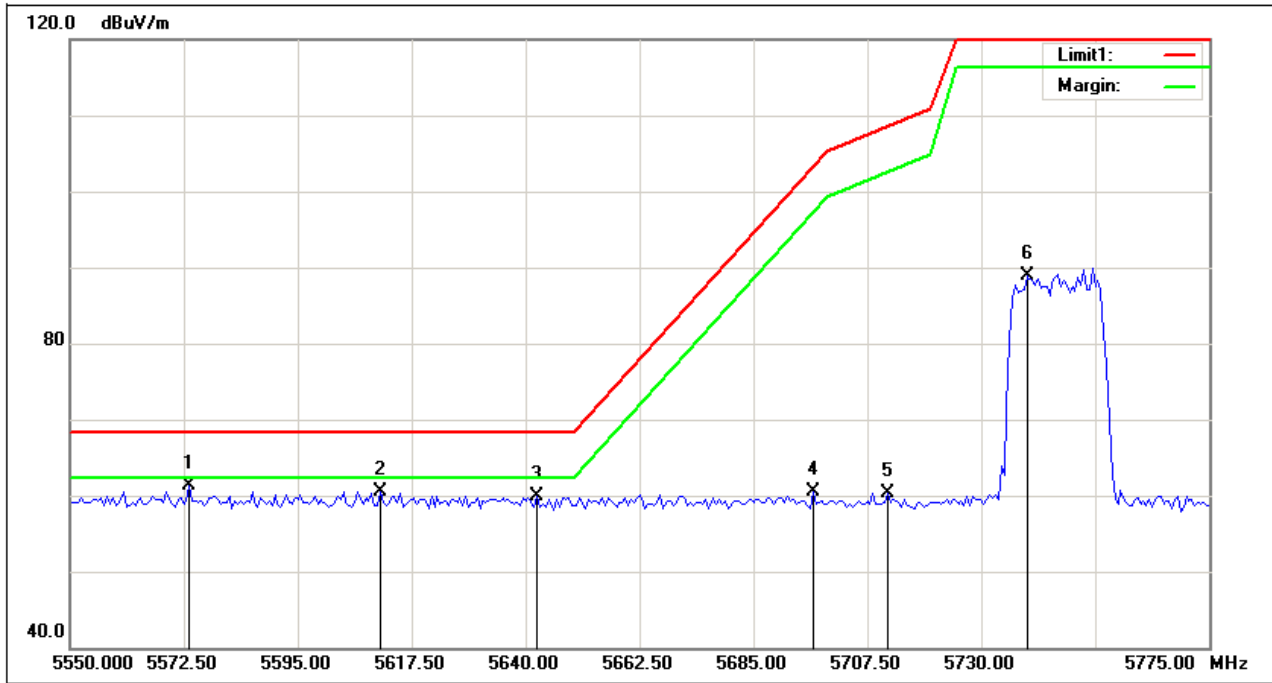
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	26.18	34.94	61.12	68.30	-7.18	peak
2	5150.000	14.72	34.94	49.66	54.00	-4.34	AVG
3	5231.000	49.12	35.16	84.28	/	/	AVG
4	5233.000	59.59	35.18	94.77	/	/	peak
5	5350.000	12.61	35.50	48.11	68.30	-20.19	peak
6	5350.000	0.25	35.50	35.75	54.00	-18.25	AVG

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

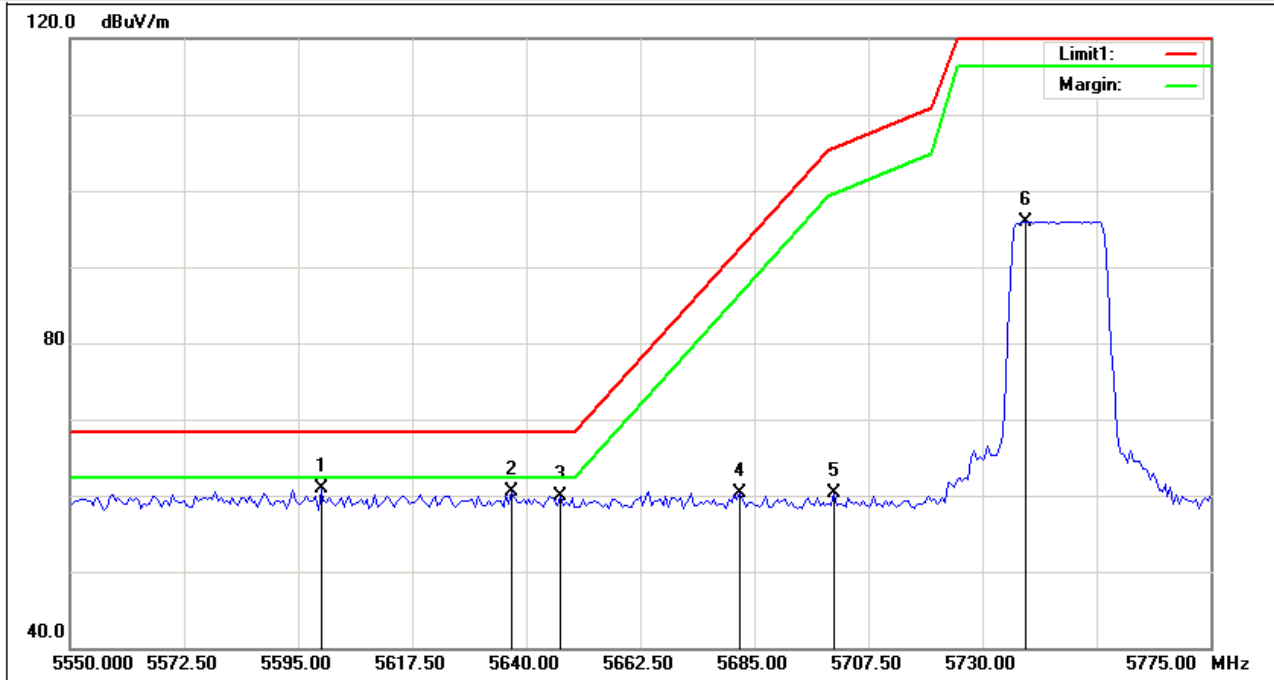
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5573.625	25.37	35.90	61.27	68.30	-7.03	peak
2	5611.313	24.61	35.88	60.49	68.30	-7.81	peak
3	5642.250	24.10	35.87	59.97	68.30	-8.33	peak
4	5696.813	24.59	35.85	60.44	102.94	-42.50	peak
5	5711.438	24.47	35.84	60.31	108.50	-48.19	peak
6	5739.000	53.09	35.83	88.92	122.30	-33.38	peak

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

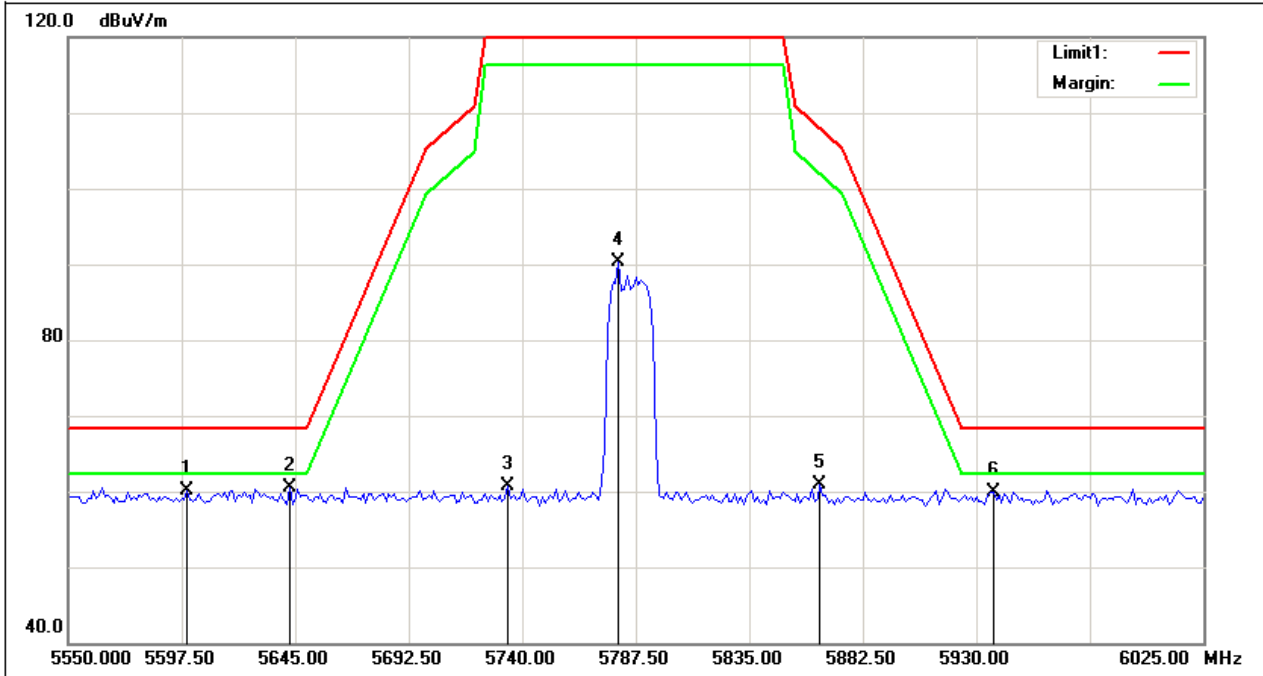
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5599.500	25.00	35.89	60.89	68.30	-7.41	peak
2	5637.188	24.55	35.87	60.42	68.30	-7.88	peak
3	5646.750	24.07	35.87	59.94	68.30	-8.36	peak
4	5682.188	24.52	35.85	60.37	92.12	-31.75	peak
5	5700.750	24.38	35.85	60.23	105.51	-45.28	peak
6	5738.438	60.10	35.83	95.93	122.30	-26.37	peak

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

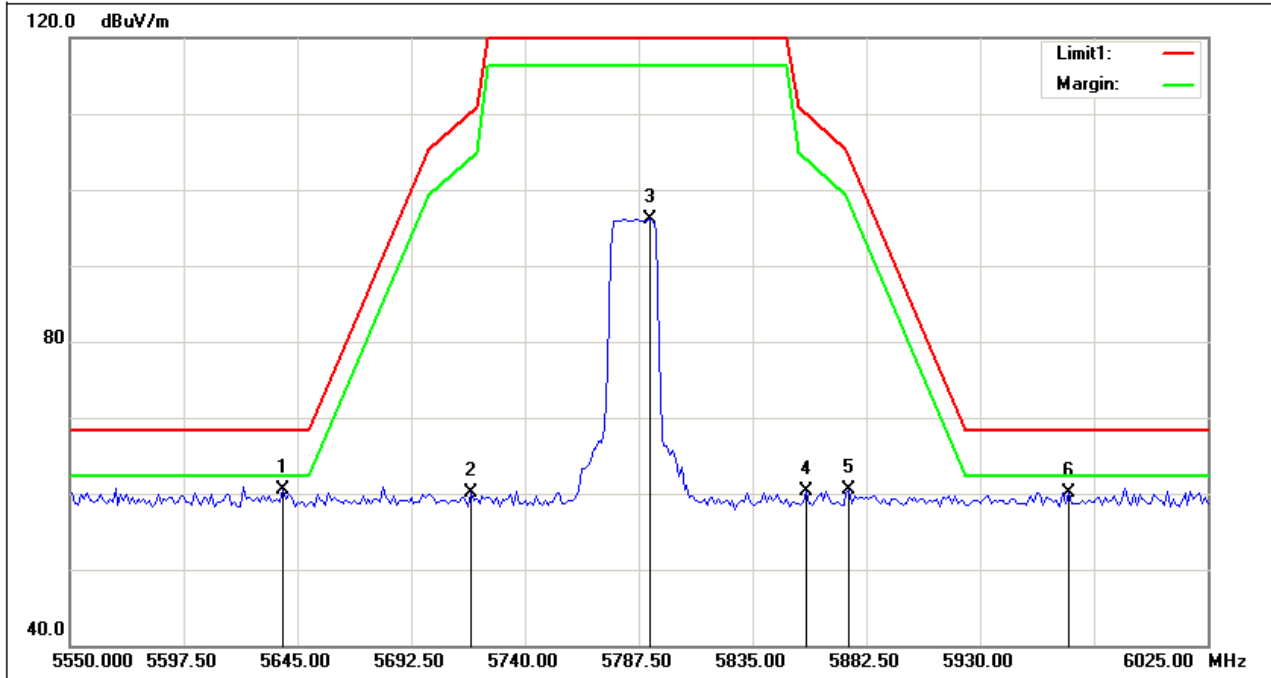
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5599.875	24.25	35.89	60.14	68.30	-8.16	peak
2	5642.625	24.55	35.87	60.42	68.30	-7.88	peak
3	5734.063	24.95	35.83	60.78	122.30	-61.52	peak
4	5780.375	54.39	35.82	90.21	122.30	-32.09	peak
5	5864.688	25.18	35.78	60.96	108.19	-47.23	peak
6	5937.125	24.16	35.75	59.91	68.30	-8.39	peak

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

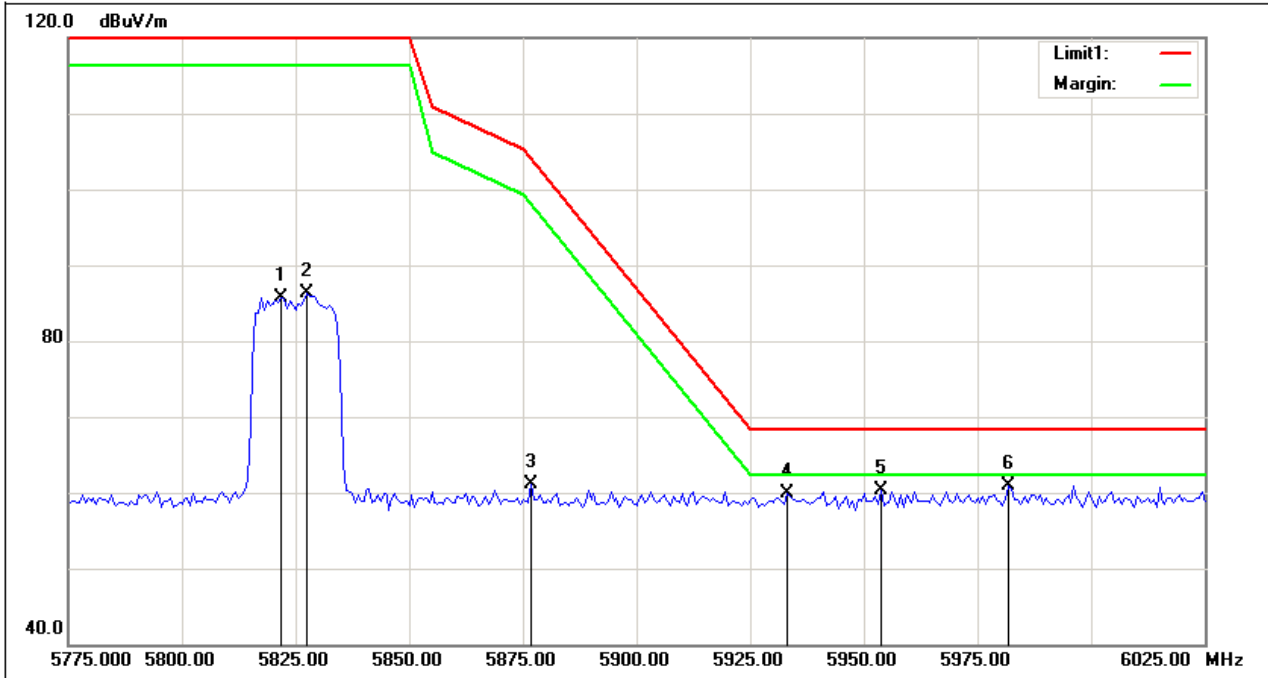
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.063	24.58	35.87	60.45	68.30	-7.85	peak
2	5717.438	24.23	35.84	60.07	110.18	-50.11	peak
3	5792.250	60.24	35.81	96.05	122.30	-26.25	peak
4	5857.563	24.57	35.78	60.35	110.18	-49.83	peak
5	5875.375	24.66	35.78	60.44	105.02	-44.58	peak
6	5966.813	24.44	35.75	60.19	68.30	-8.11	peak

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

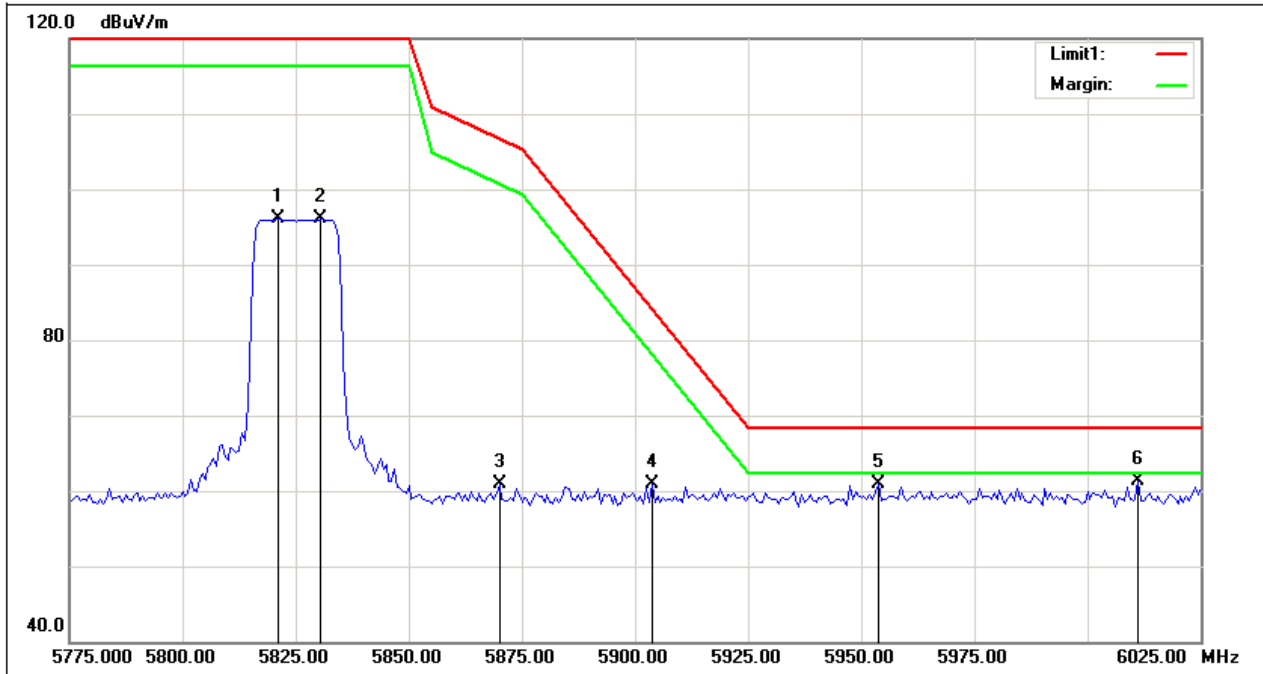
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5821.875	49.93	35.80	85.73	122.30	-36.57	peak
2	5827.500	50.45	35.80	86.25	122.30	-36.05	peak
3	5876.875	25.23	35.78	61.01	103.91	-42.90	peak
4	5933.125	24.13	35.75	59.88	68.30	-8.42	peak
5	5953.750	24.46	35.75	60.21	68.30	-8.09	peak
6	5981.875	25.12	35.73	60.85	68.30	-7.45	peak

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

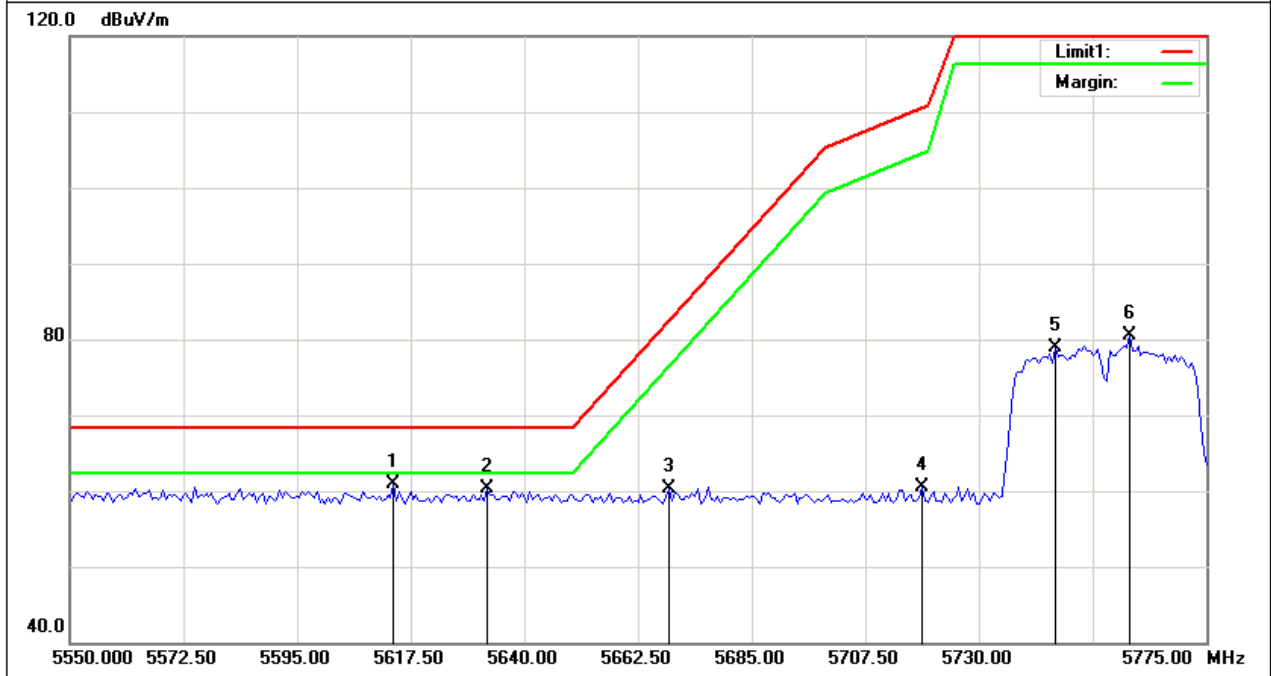
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5821.250	60.27	35.80	96.07	122.30	-26.23	peak
2	5830.625	60.22	35.80	96.02	122.30	-26.28	peak
3	5870.000	25.09	35.78	60.87	106.70	-45.83	peak
4	5903.750	25.18	35.77	60.95	84.02	-23.07	peak
5	5953.750	25.20	35.75	60.95	68.30	-7.35	peak
6	6011.250	25.48	35.78	61.26	68.30	-7.04	peak

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

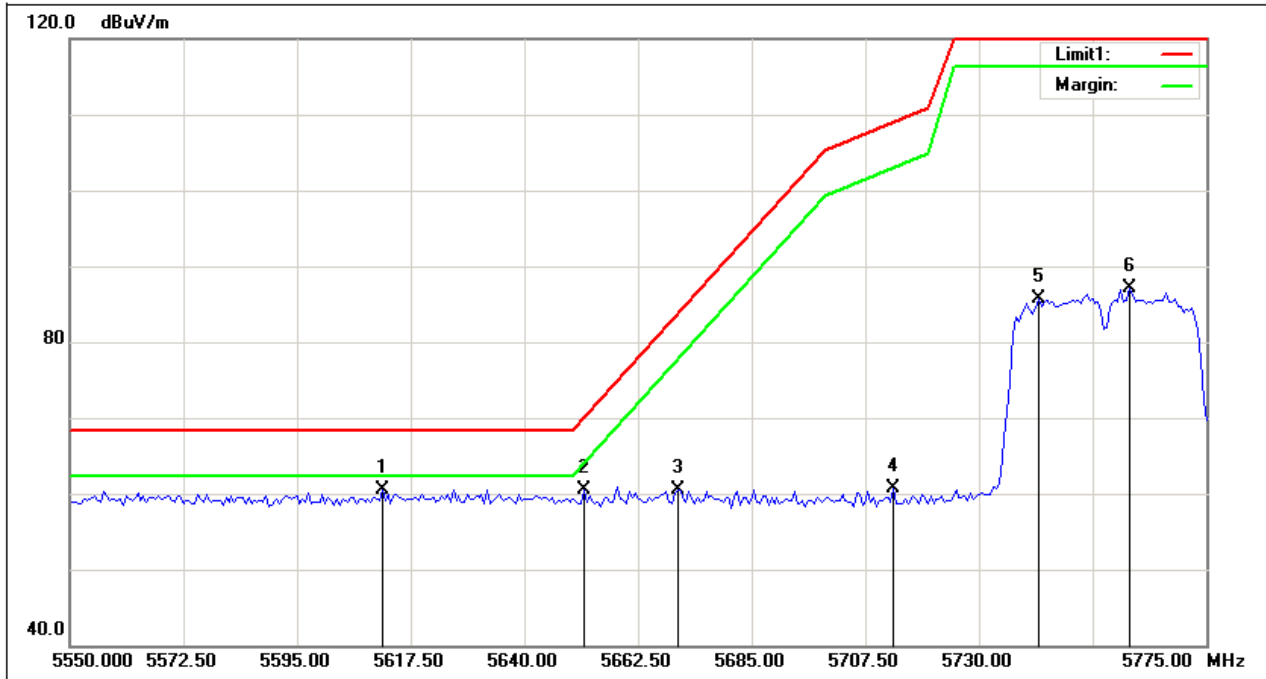
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5614.125	25.02	35.88	60.90	68.30	-7.40	peak
2	5632.688	24.42	35.87	60.29	68.30	-8.01	peak
3	5668.688	24.42	35.85	60.27	82.13	-21.86	peak
4	5718.750	24.76	35.83	60.59	110.55	-49.96	peak
5	5745.188	43.02	35.83	78.85	122.30	-43.45	peak
6	5759.813	44.64	35.82	80.46	122.30	-41.84	peak

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

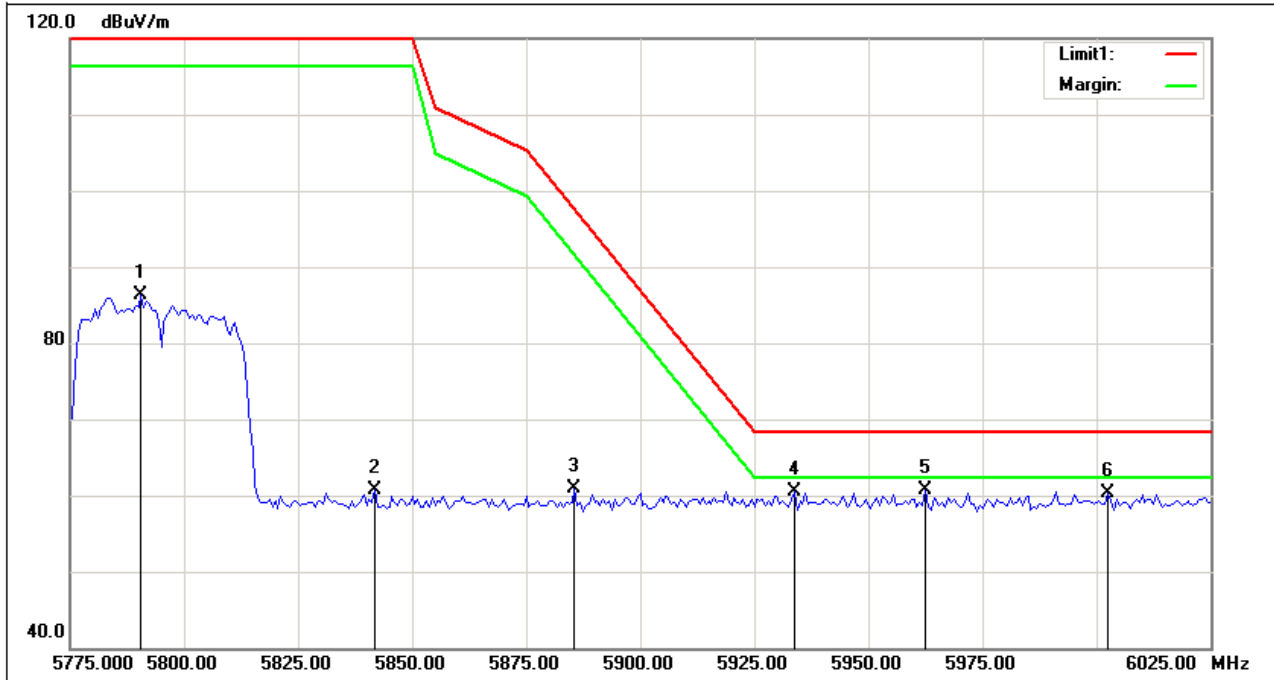
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5611.875	24.68	35.88	60.56	68.30	-7.74	peak
2	5651.813	24.54	35.87	60.41	69.64	-9.23	peak
3	5670.375	24.61	35.85	60.46	83.38	-22.92	peak
4	5713.125	24.83	35.84	60.67	108.97	-48.30	peak
5	5741.813	49.96	35.83	85.79	122.30	-36.51	peak
6	5759.813	51.31	35.82	87.13	122.30	-35.17	peak

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

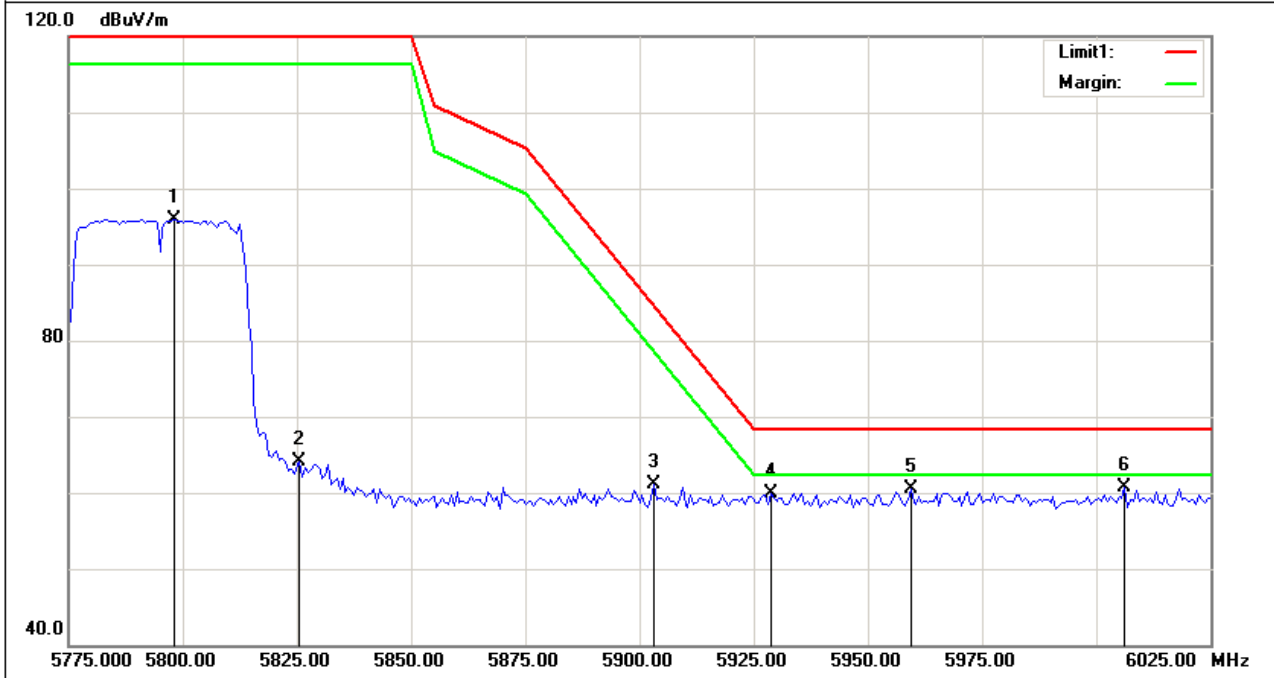
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5790.625	50.44	35.81	86.25	122.30	-36.05	peak
2	5841.875	24.89	35.80	60.69	122.30	-61.61	peak
3	5885.625	25.22	35.77	60.99	97.44	-36.45	peak
4	5933.750	24.67	35.75	60.42	68.30	-7.88	peak
5	5962.500	25.03	35.74	60.77	68.30	-7.53	peak
6	6002.500	24.59	35.74	60.33	68.30	-7.97	peak

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

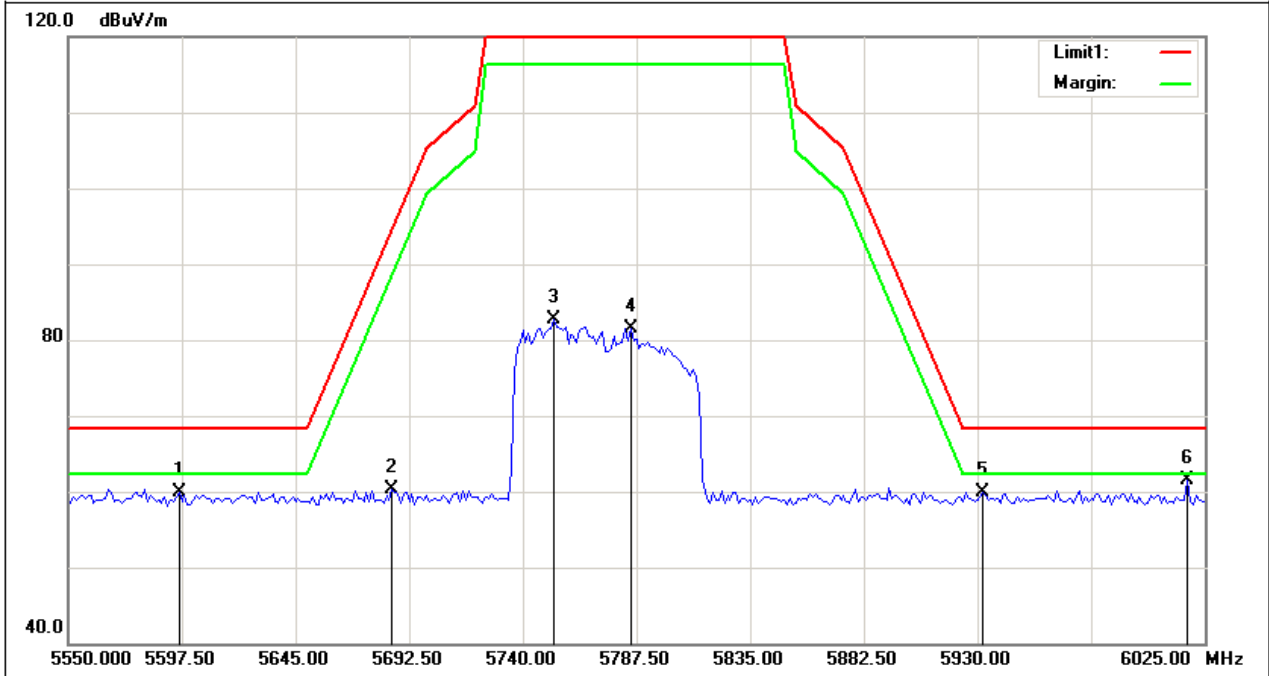
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5798.125	60.06	35.81	95.87	122.30	-26.43	peak
2	5825.625	28.38	35.80	64.18	122.30	-58.12	peak
3	5903.125	25.33	35.77	61.10	84.49	-23.39	peak
4	5928.750	24.10	35.76	59.86	68.30	-8.44	peak
5	5959.375	24.77	35.74	60.51	68.30	-7.79	peak
6	6006.250	24.98	35.76	60.74	68.30	-7.56	peak

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

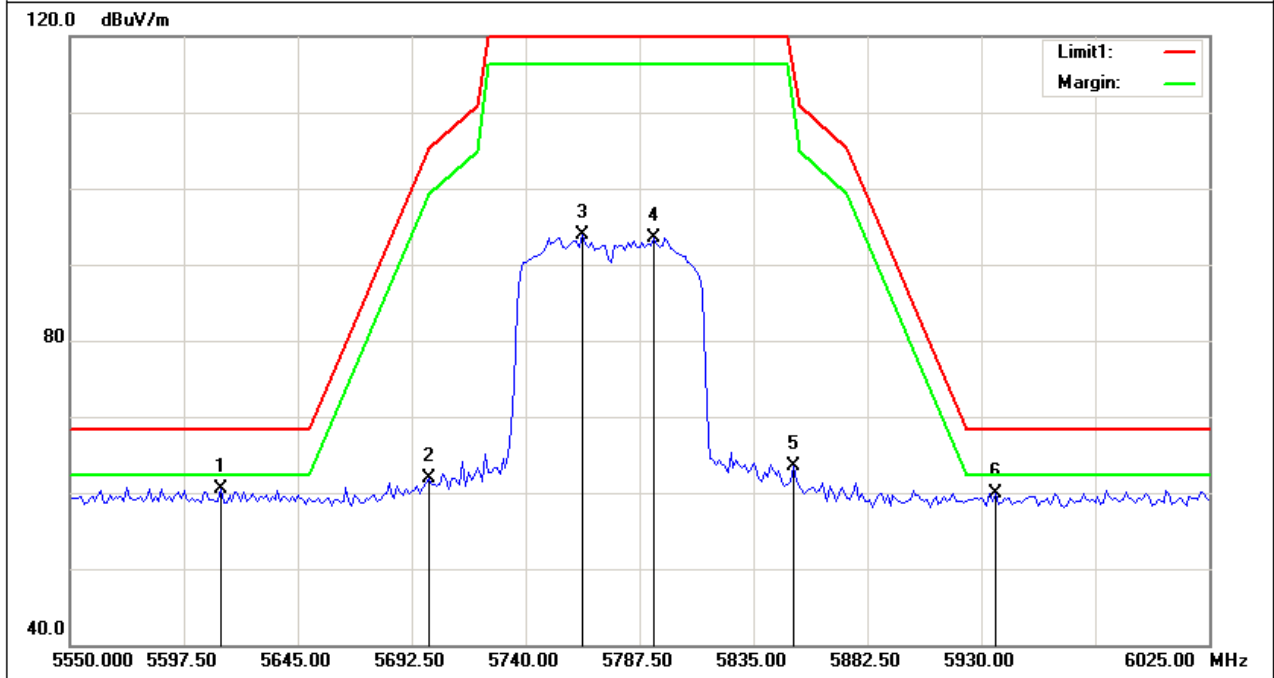
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5596.313	23.95	35.88	59.83	68.30	-8.47	peak
2	5685.375	24.36	35.85	60.21	94.48	-34.27	peak
3	5753.063	46.88	35.83	82.71	122.30	-39.59	peak
4	5785.125	45.64	35.81	81.45	122.30	-40.85	peak
5	5932.375	24.20	35.75	59.95	68.30	-8.35	peak
6	6017.875	25.69	35.82	61.51	68.30	-6.79	peak

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

Horizontal

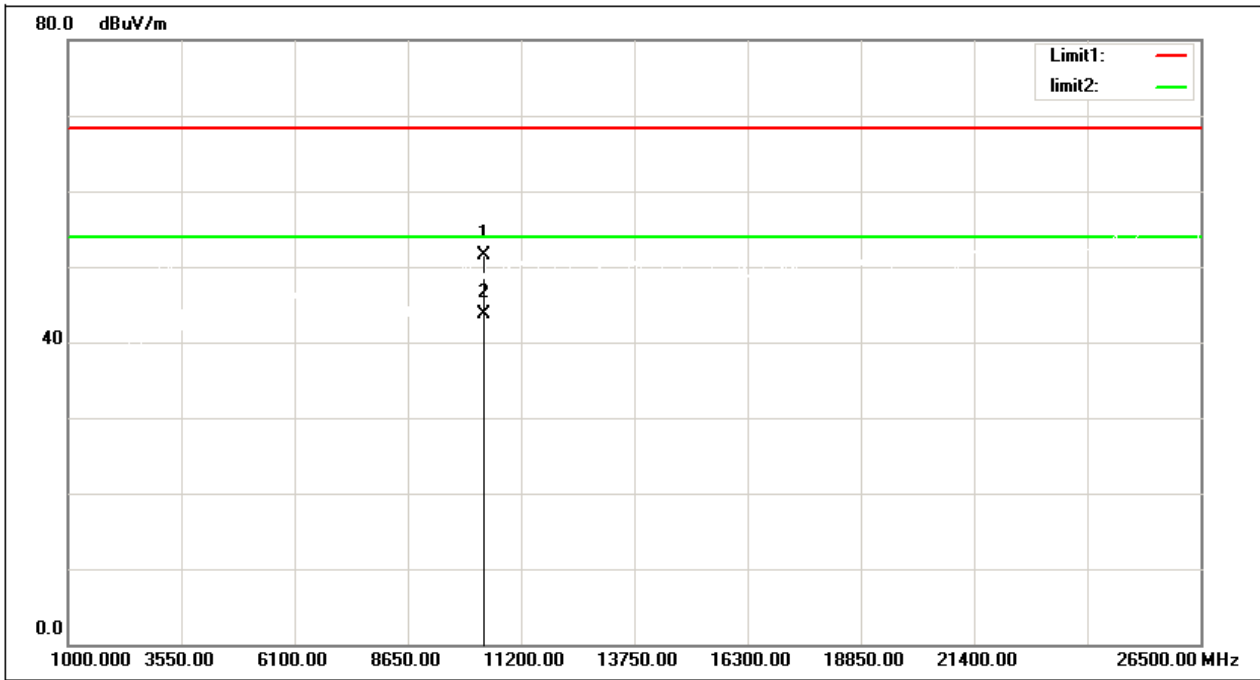


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5612.938	24.53	35.88	60.41	68.30	-7.89	peak
2	5699.625	26.06	35.85	61.91	105.02	-43.11	peak
3	5763.750	58.12	35.82	93.94	122.30	-28.36	peak
4	5793.438	57.74	35.82	93.56	122.30	-28.74	peak
5	5851.625	27.65	35.79	63.44	118.59	-55.15	peak
6	5935.938	24.19	35.75	59.94	68.30	-8.36	peak

5.9.TEST RESULTS - ABOVE1000 MHz (HARMONIC)

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

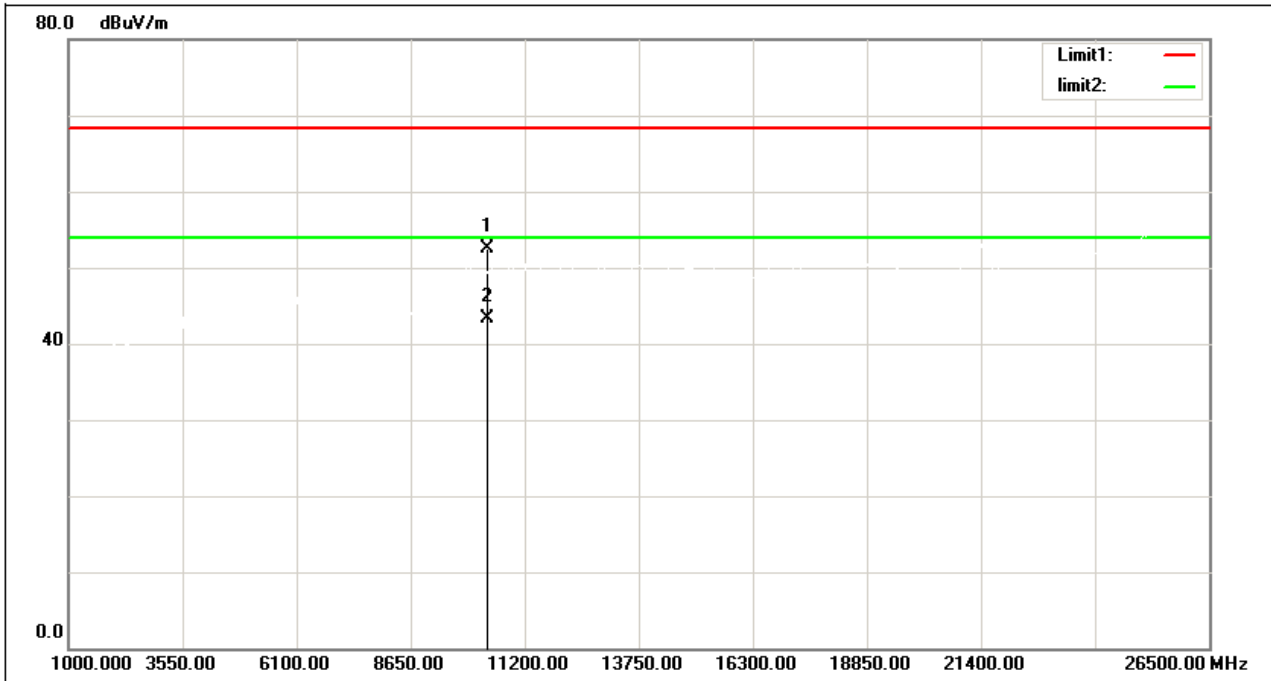
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	45.36	6.22	51.58	68.30	-16.72	peak
2	10360.000	37.41	6.22	43.63	54.00	-10.37	AVG

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

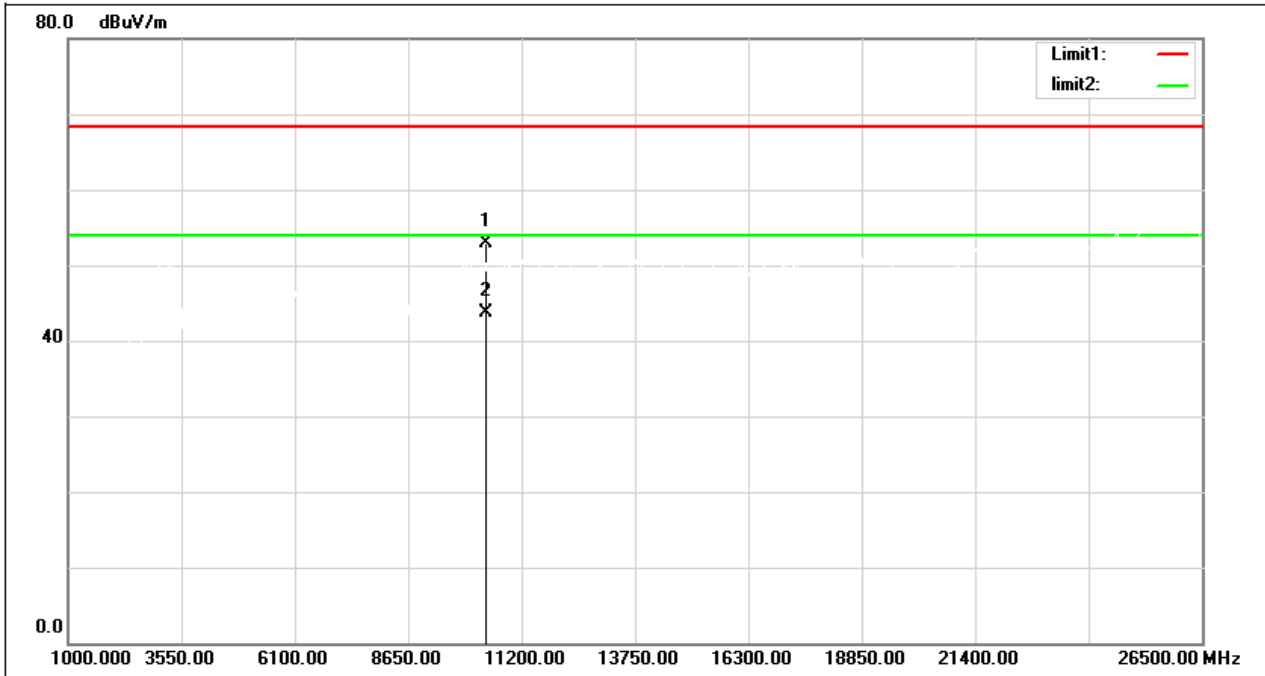
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	46.33	6.22	52.55	68.30	-15.75	peak
2	10360.000	37.05	6.22	43.27	54.00	-10.73	AVG

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

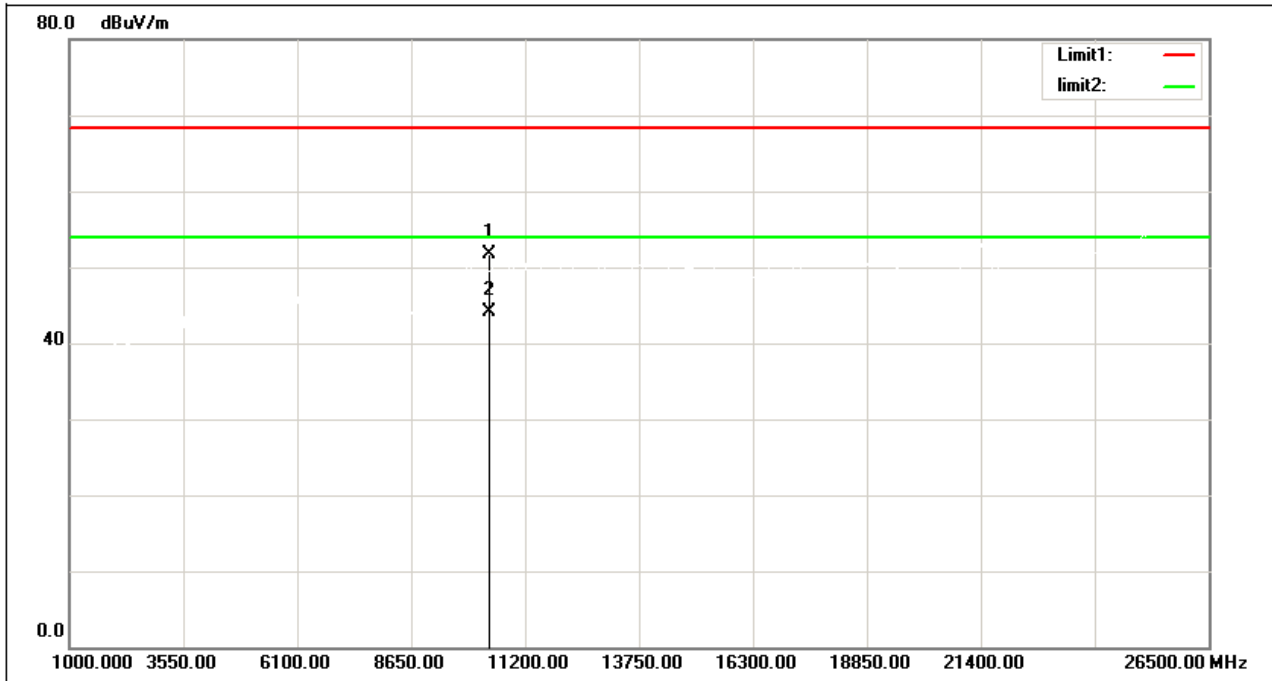
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	46.58	6.35	52.93	68.30	-15.37	peak
2	10400.000	37.44	6.35	43.79	54.00	-10.21	AVG

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

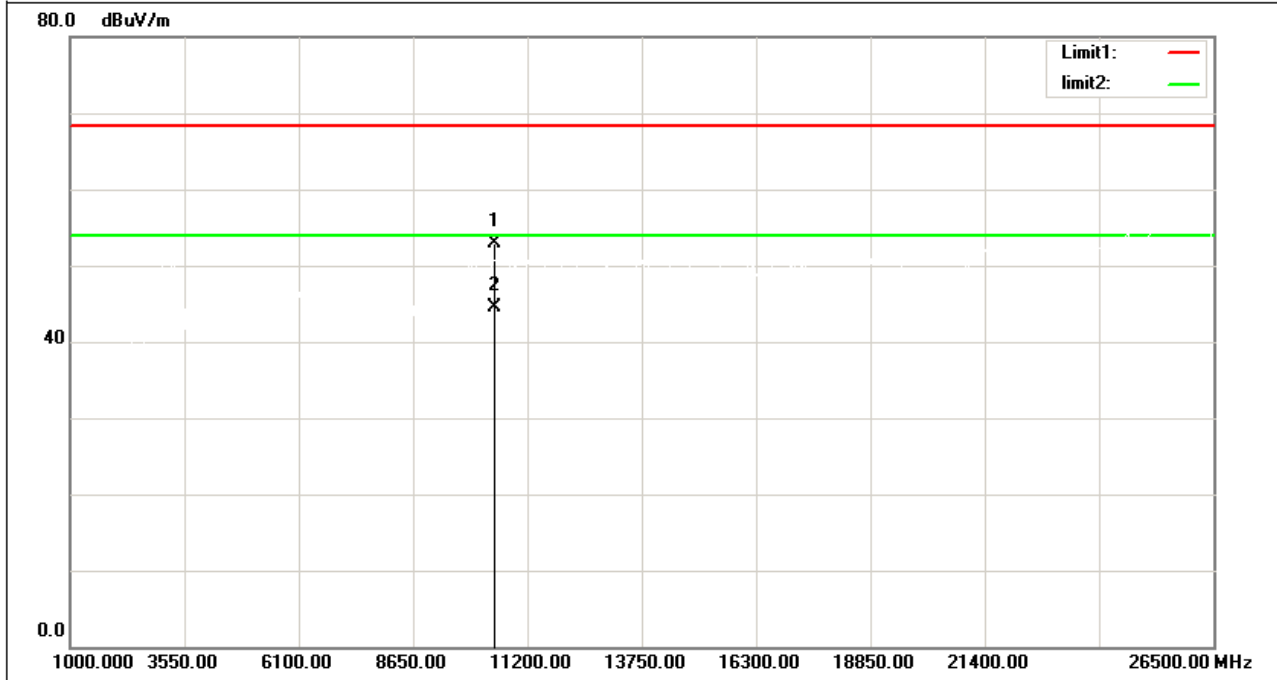
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	45.41	6.35	51.76	68.30	-16.54	peak
2	10400.000	37.82	6.35	44.17	54.00	-9.83	AVG

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

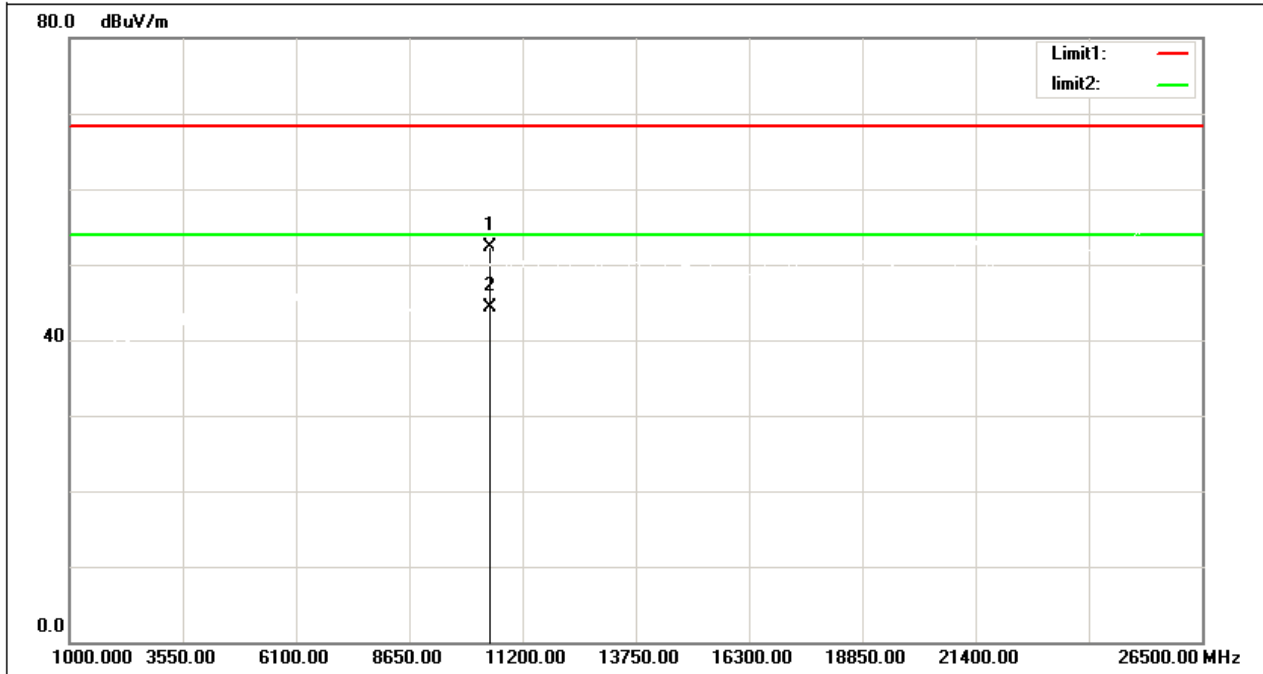
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	46.35	6.61	52.96	68.30	-15.34	peak
2	10480.000	37.82	6.61	44.43	54.00	-9.57	AVG

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

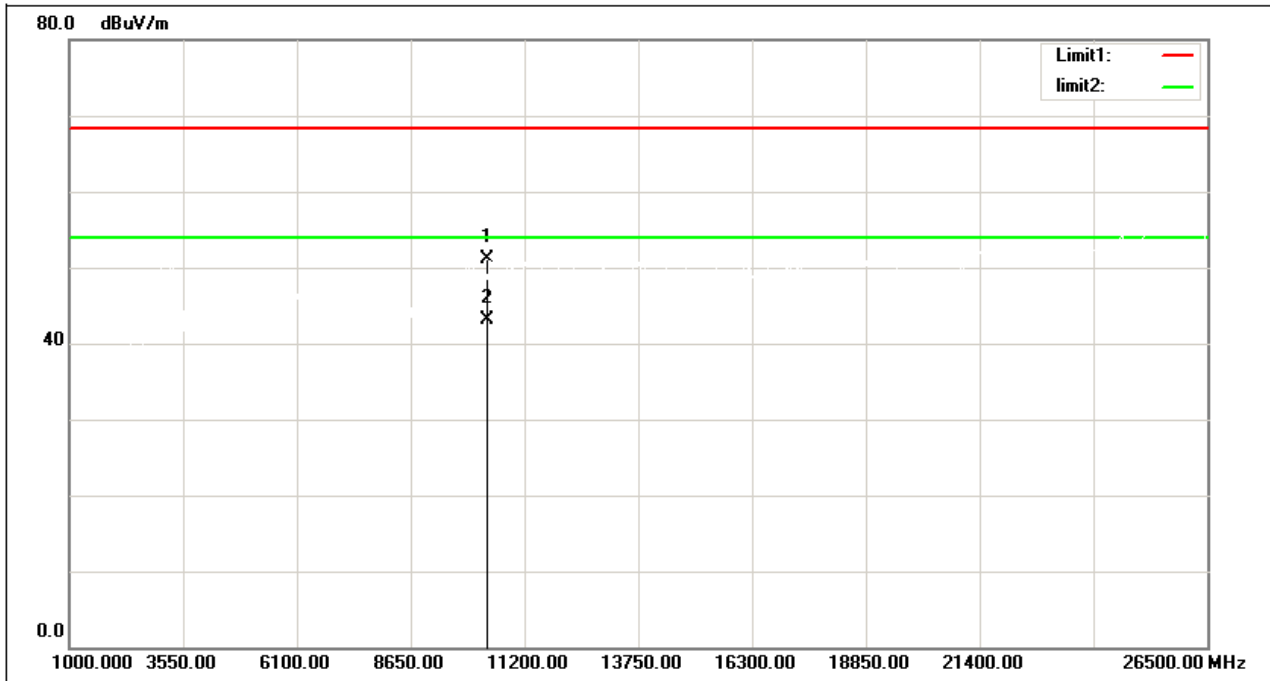
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	45.74	6.61	52.35	68.30	-15.95	peak
2	10480.000	37.61	6.61	44.22	54.00	-9.78	AVG

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

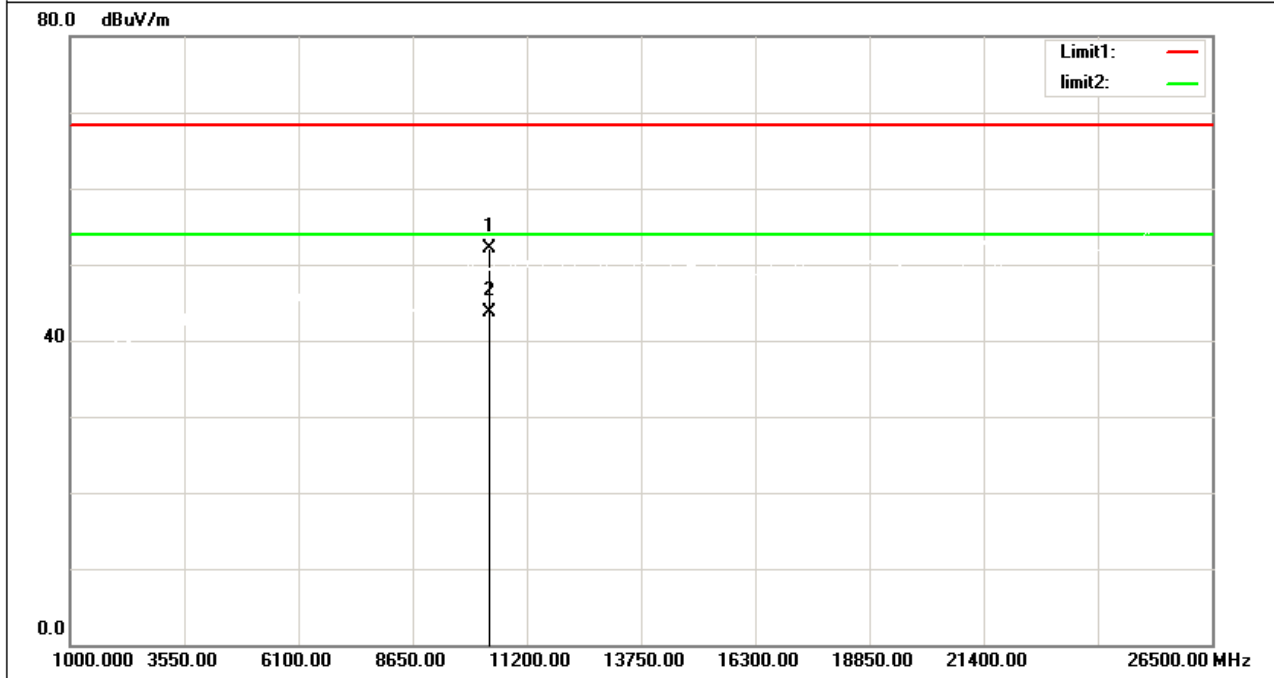
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	44.93	6.22	51.15	68.30	-17.15	peak
2	10360.000	36.87	6.22	43.09	54.00	-10.91	AVG

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

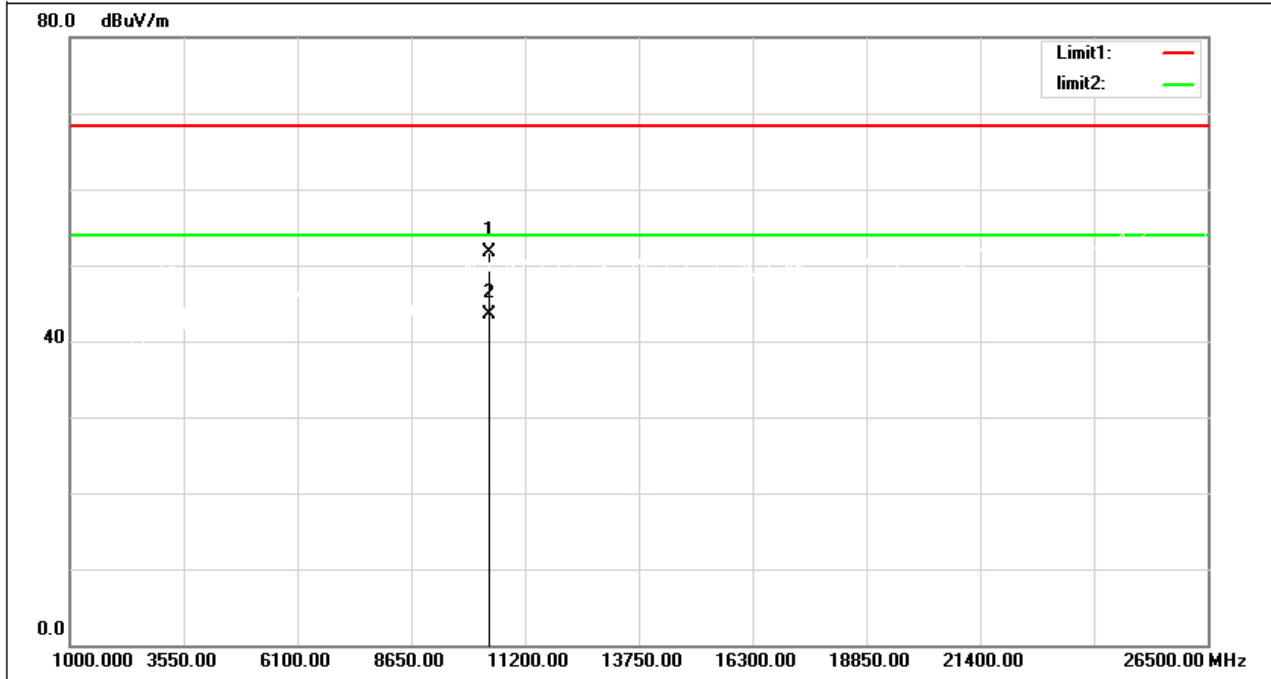
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	45.82	6.22	52.04	68.30	-16.26	peak
2	10360.000	37.41	6.22	43.63	54.00	-10.37	AVG

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

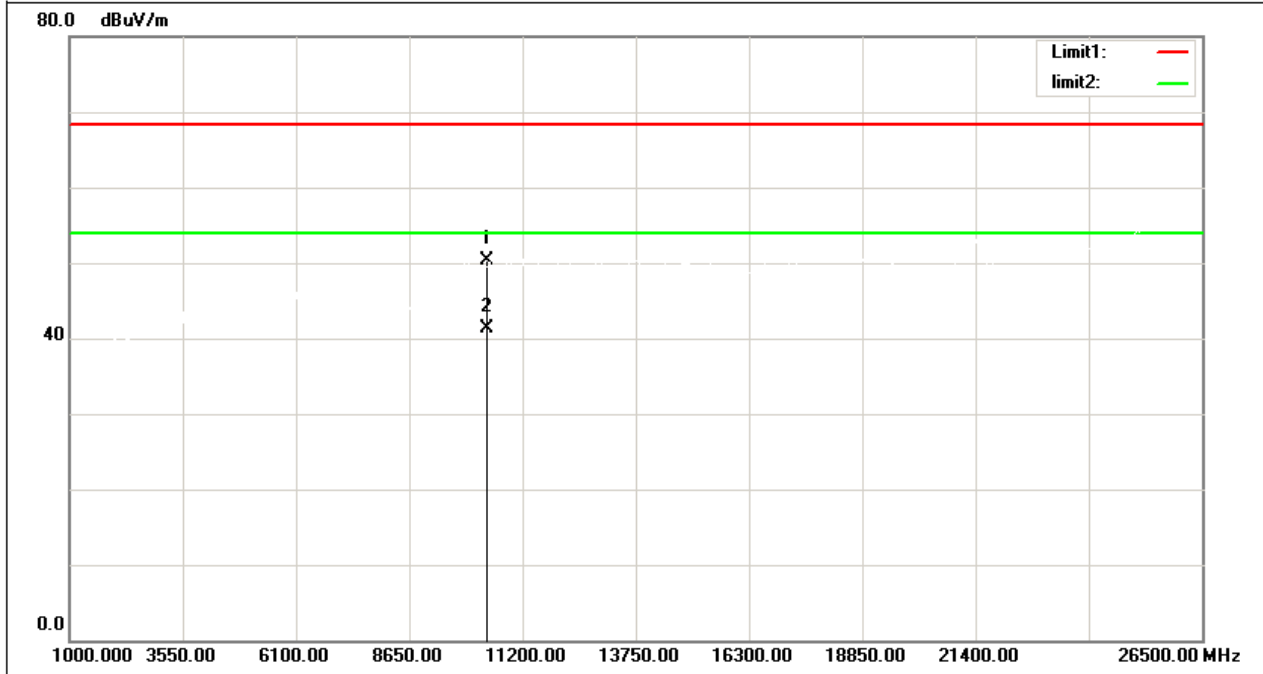
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	45.34	6.35	51.69	68.30	-16.61	peak
2	10400.000	37.22	6.35	43.57	54.00	-10.43	AVG

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

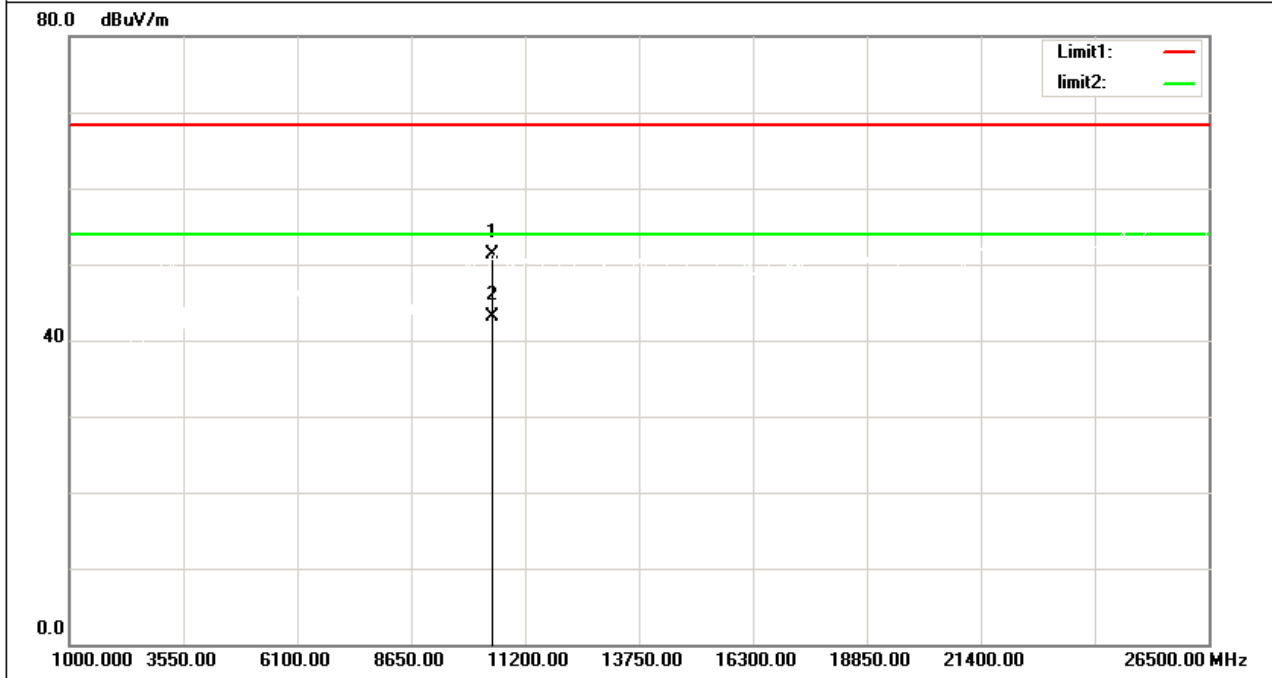
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	43.89	6.35	50.24	68.30	-18.06	peak
2	10400.000	35.02	6.35	41.37	54.00	-12.63	AVG

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

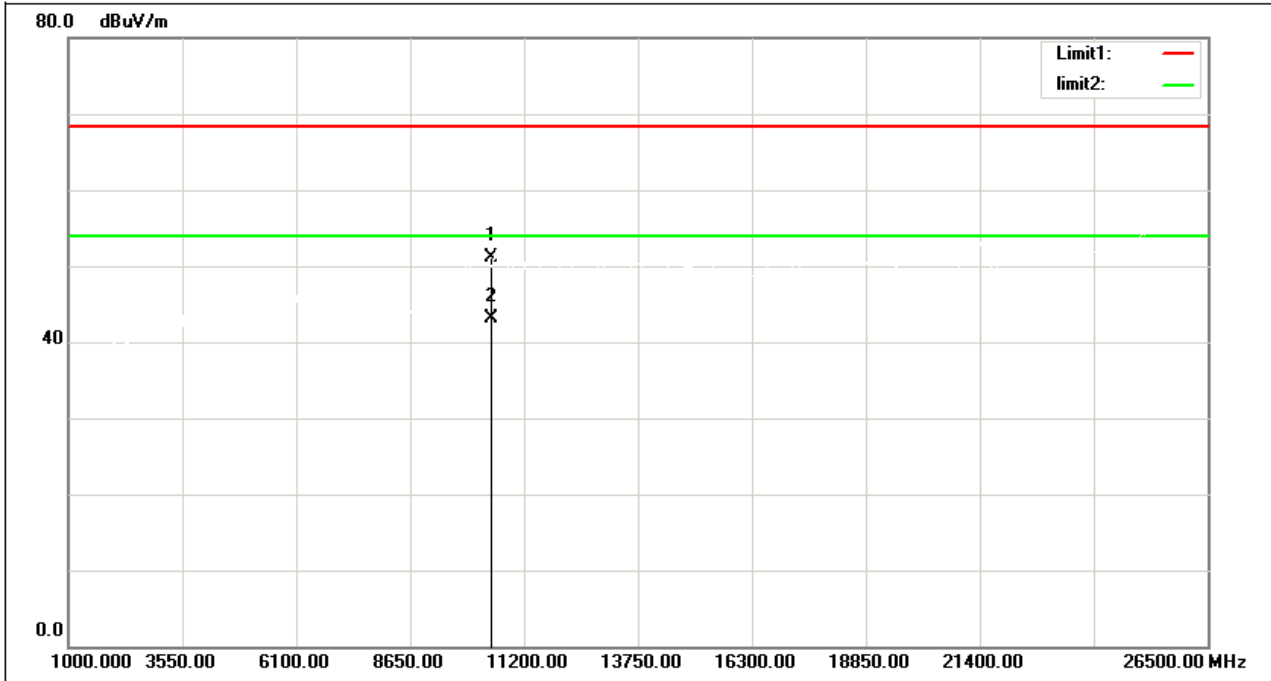
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	44.64	6.61	51.25	68.30	-17.05	peak
2	10480.000	36.54	6.61	43.15	54.00	-10.85	AVG

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

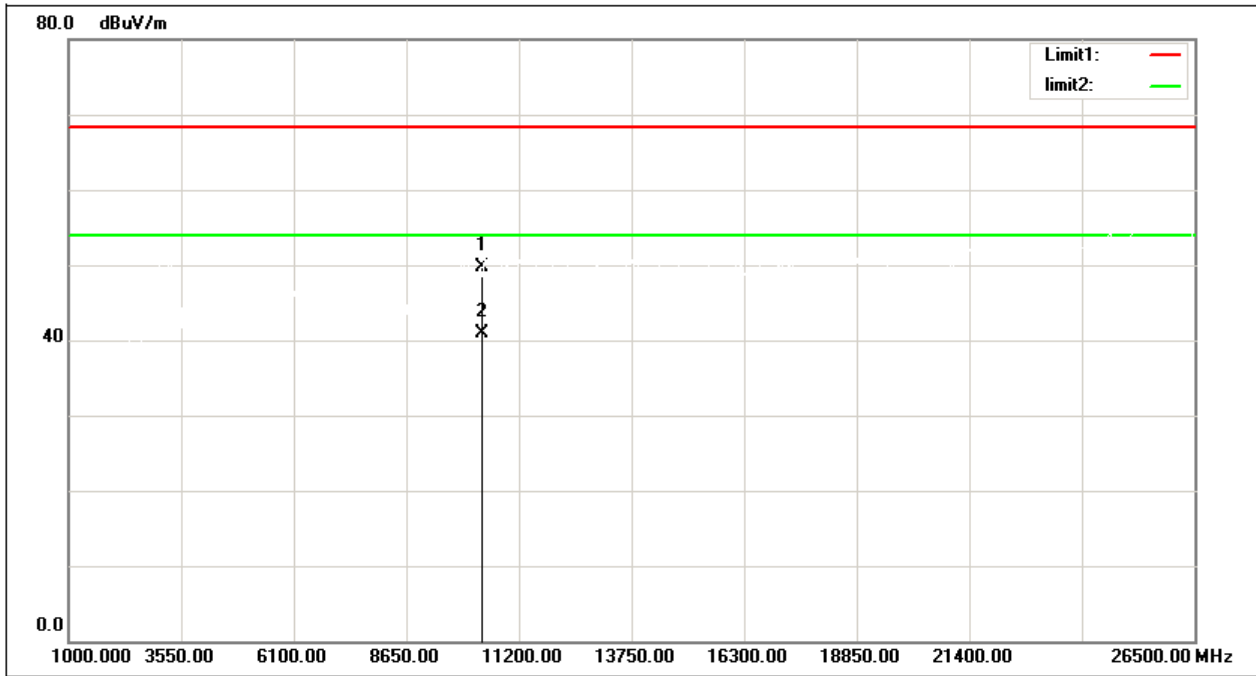
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	44.58	6.61	51.19	68.30	-17.11	peak
2	10480.000	36.54	6.61	43.15	54.00	-10.85	AVG

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

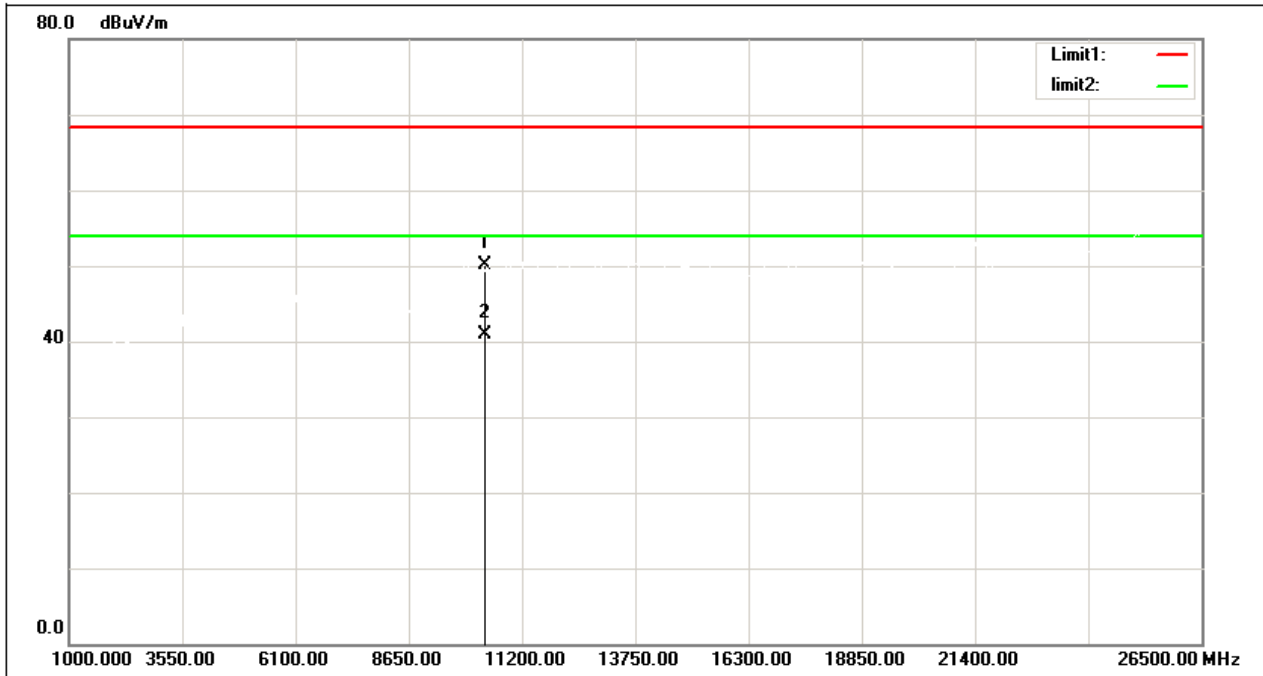
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	43.52	6.28	49.80	68.30	-18.50	peak
2	10380.000	34.64	6.28	40.92	54.00	-13.08	AVG

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

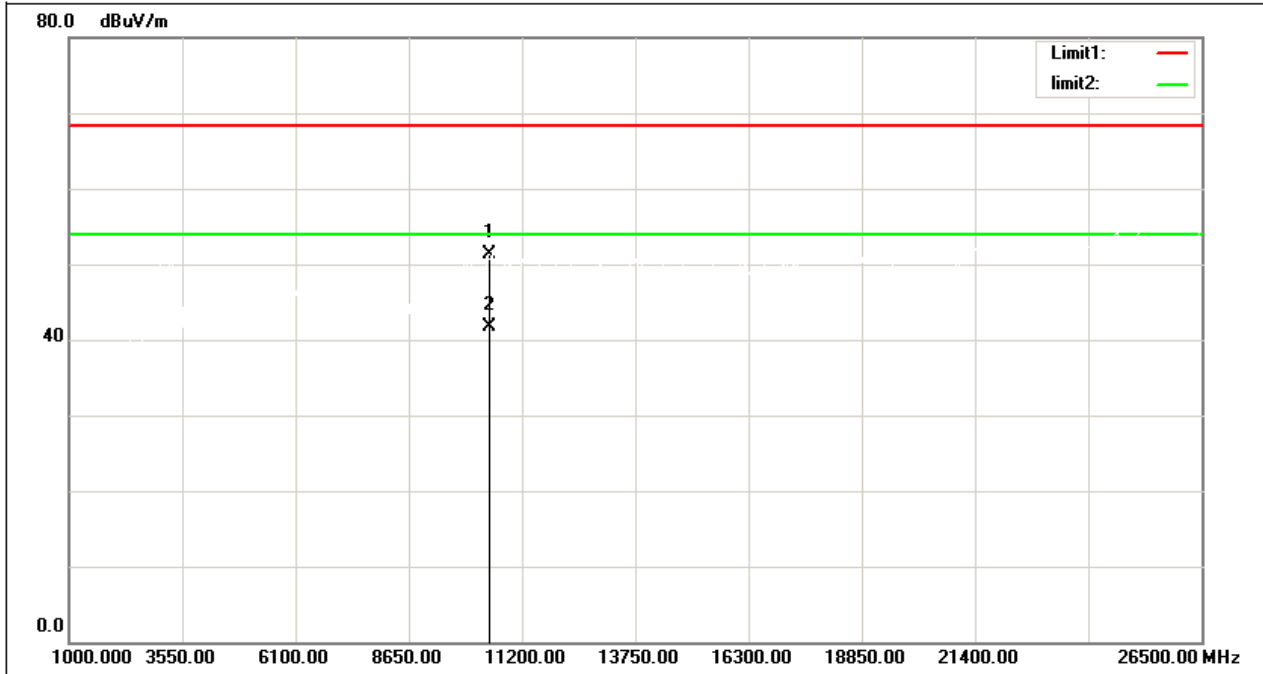
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	43.76	6.28	50.04	68.30	-18.26	peak
2	10380.000	34.65	6.28	40.93	54.00	-13.07	AVG

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

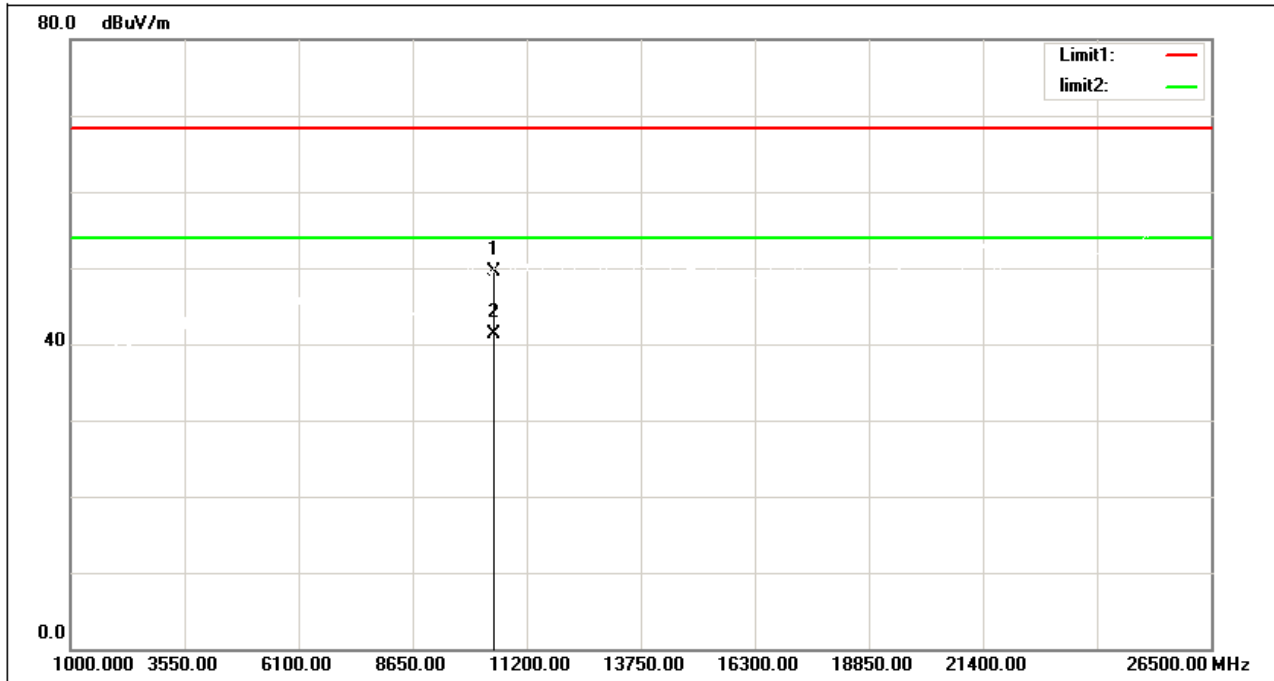
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	44.84	6.55	51.39	68.30	-16.91	peak
2	10460.000	35.12	6.55	41.67	54.00	-12.33	AVG

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

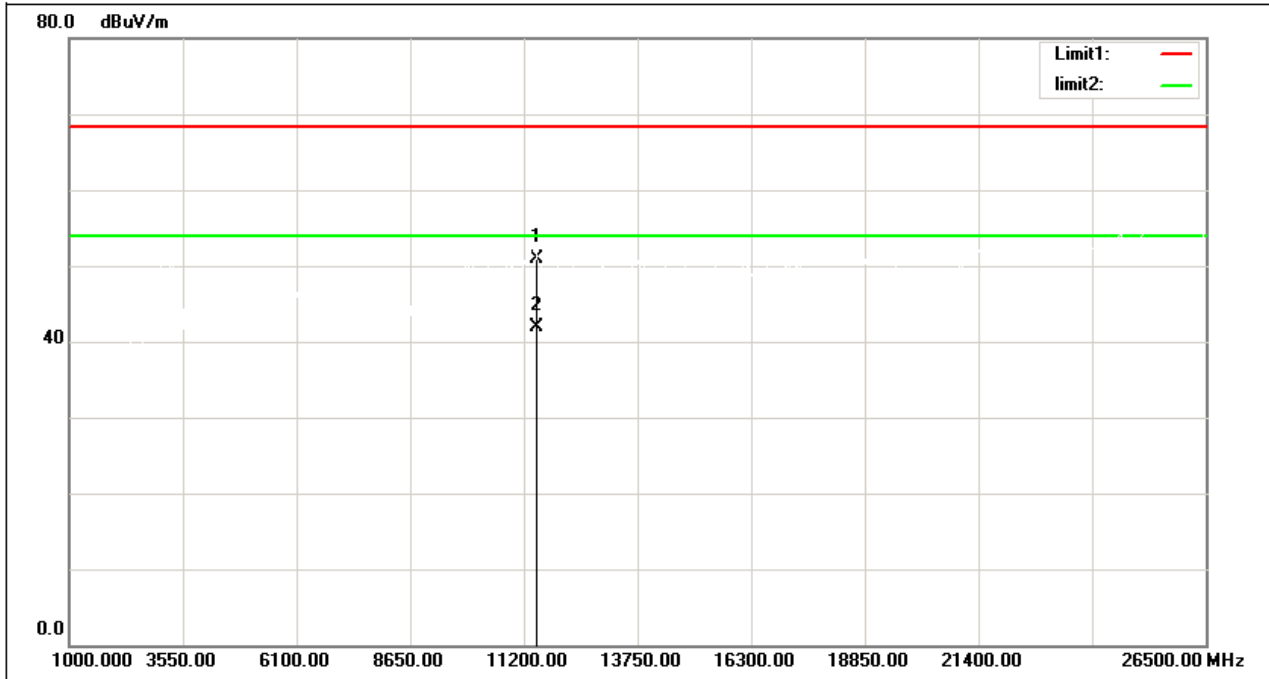
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	43.02	6.55	49.57	68.30	-18.73	peak
2	10460.000	34.73	6.55	41.28	54.00	-12.72	AVG

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

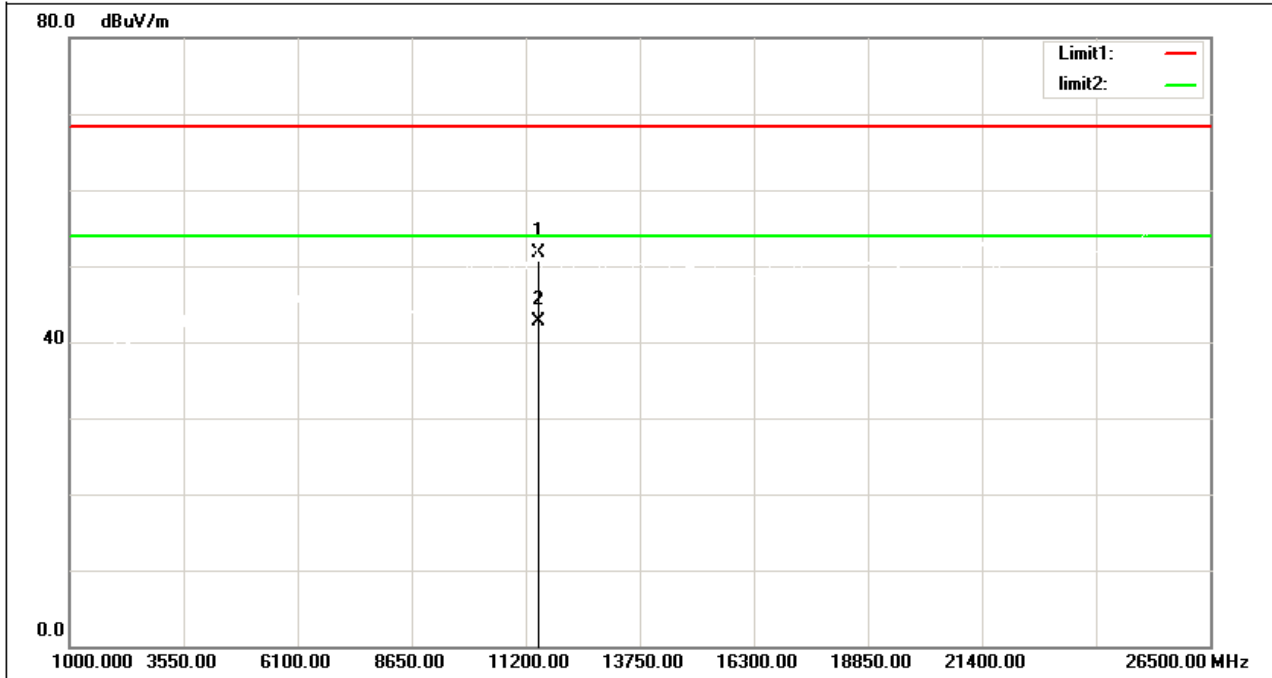
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	42.77	8.06	50.83	68.30	-17.47	peak
2	11490.000	33.85	8.06	41.91	54.00	-12.09	AVG

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

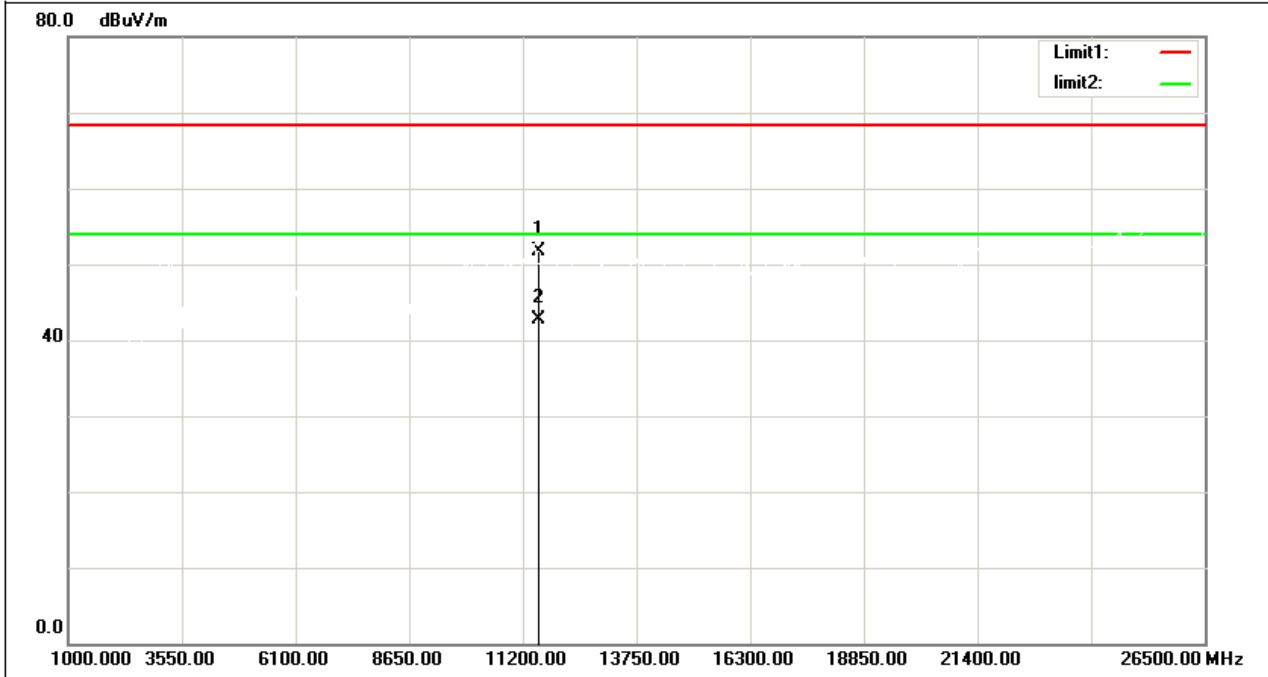
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	43.66	8.06	51.72	68.30	-16.58	peak
2	11490.000	34.56	8.06	42.62	54.00	-11.38	AVG

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

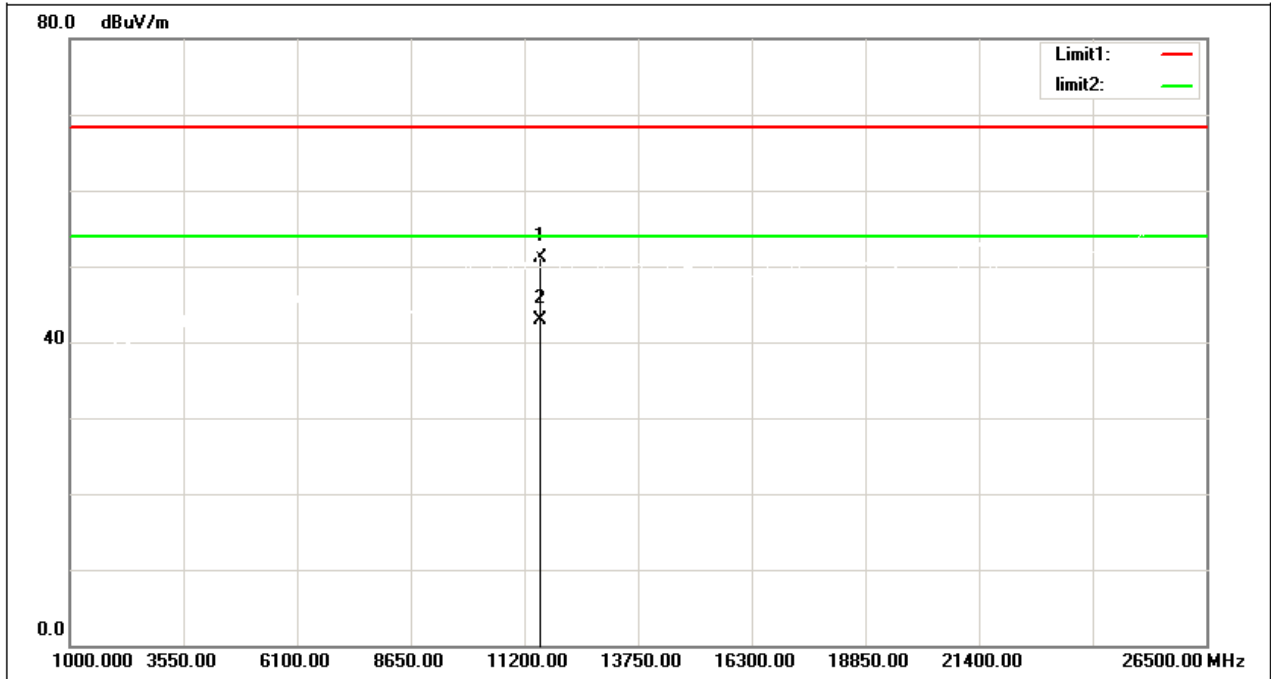
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	43.61	8.00	51.61	68.30	-16.69	peak
2	11570.000	34.78	8.00	42.78	54.00	-11.22	AVG

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

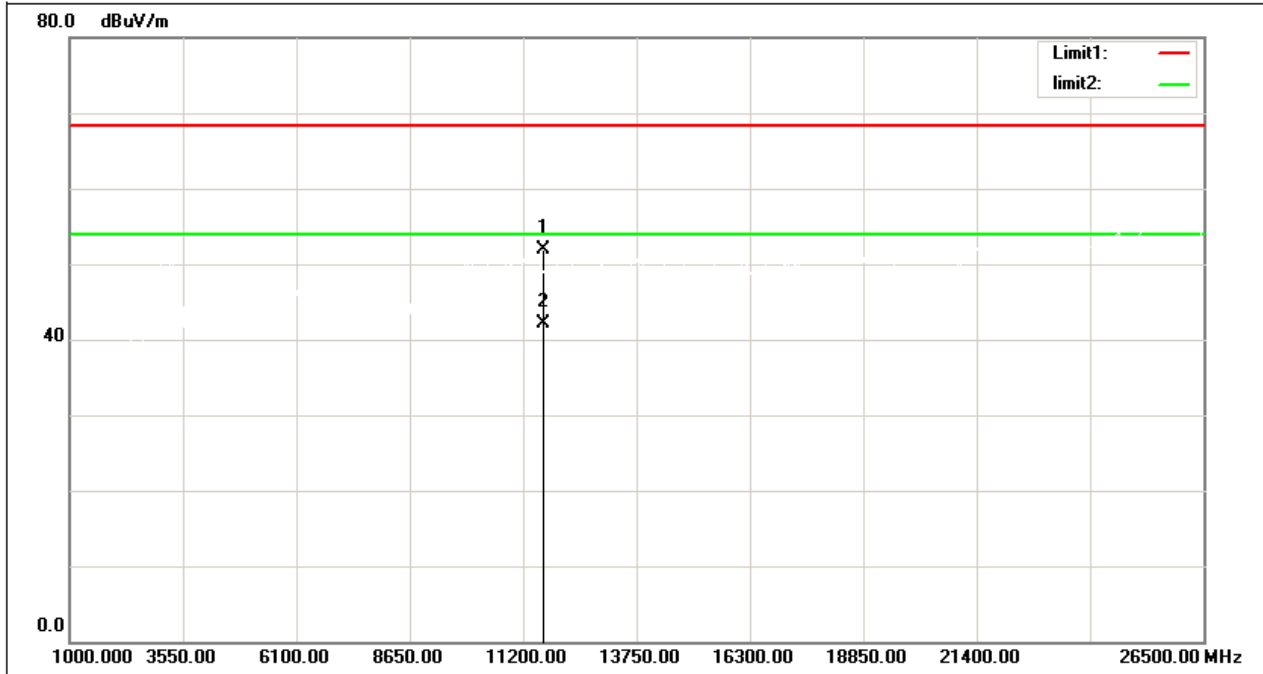
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	43.18	8.00	51.18	68.30	-17.12	peak
2	11570.000	34.94	8.00	42.94	54.00	-11.06	AVG

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

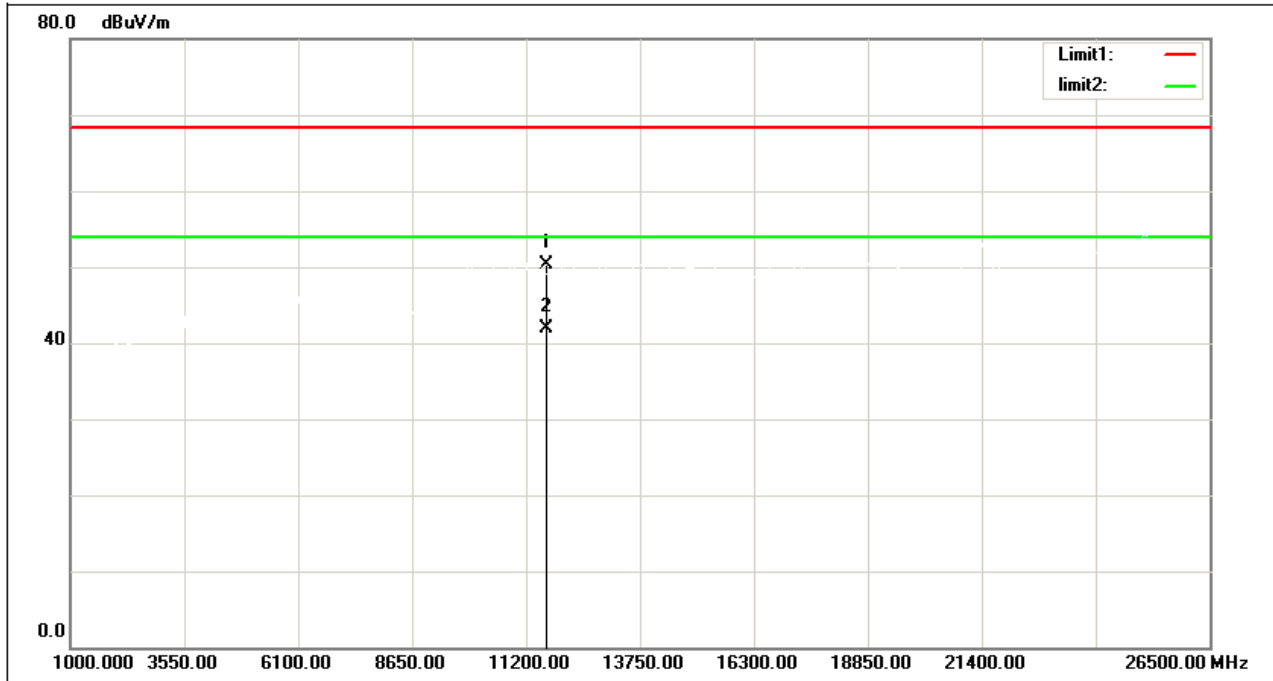
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	43.85	7.97	51.82	68.30	-16.48	peak
2	11650.000	34.18	7.97	42.15	54.00	-11.85	AVG

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

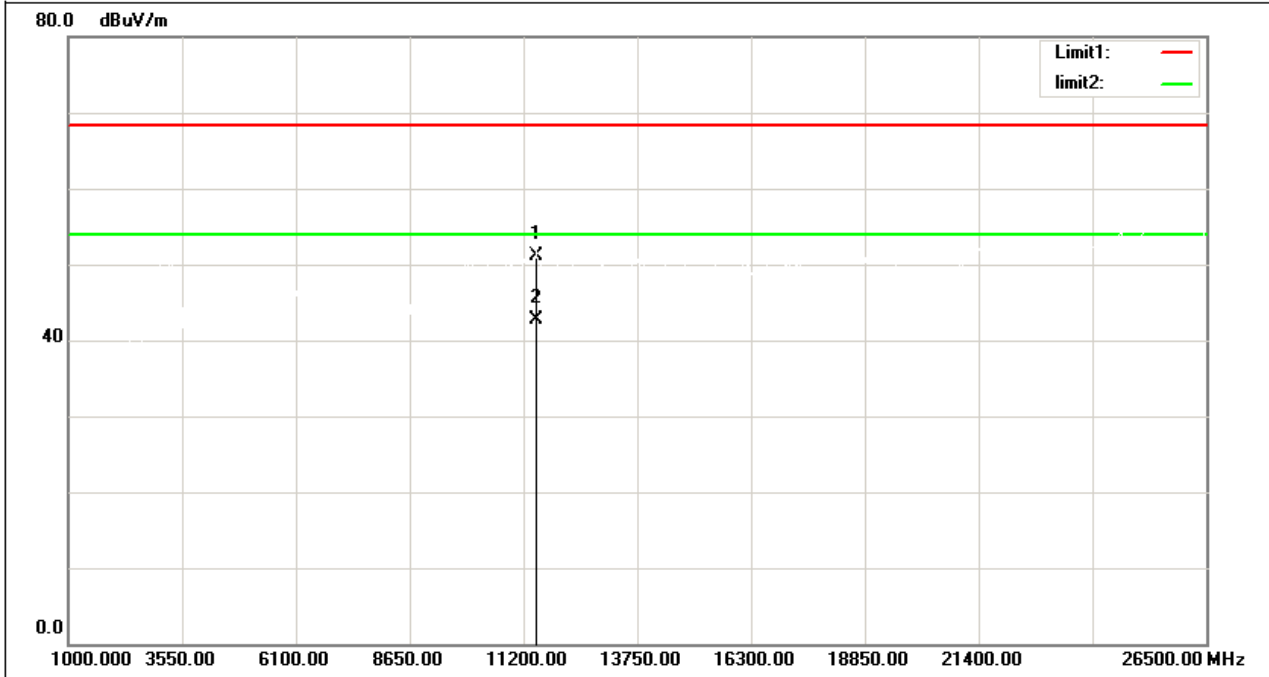
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	42.34	7.97	50.31	68.30	-17.99	peak
2	11650.000	33.88	7.97	41.85	54.00	-12.15	AVG

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

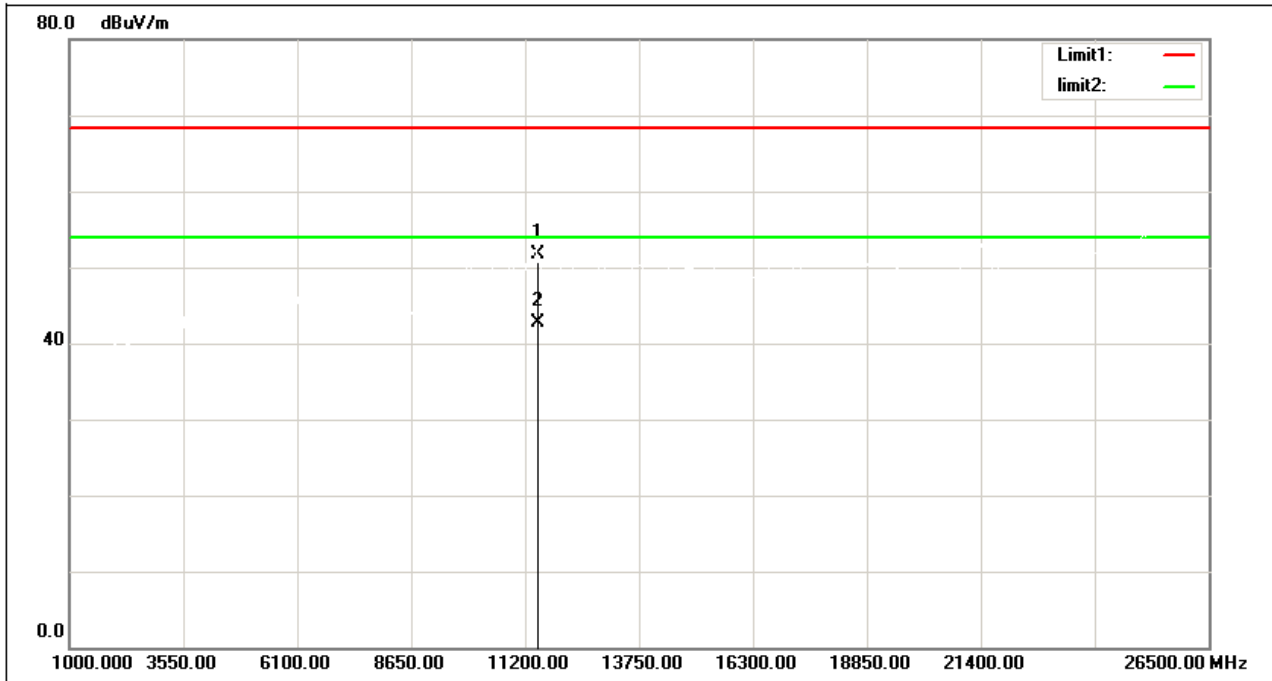
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	43.05	8.06	51.11	68.30	-17.19	peak
2	11490.000	34.68	8.06	42.74	54.00	-11.26	AVG

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

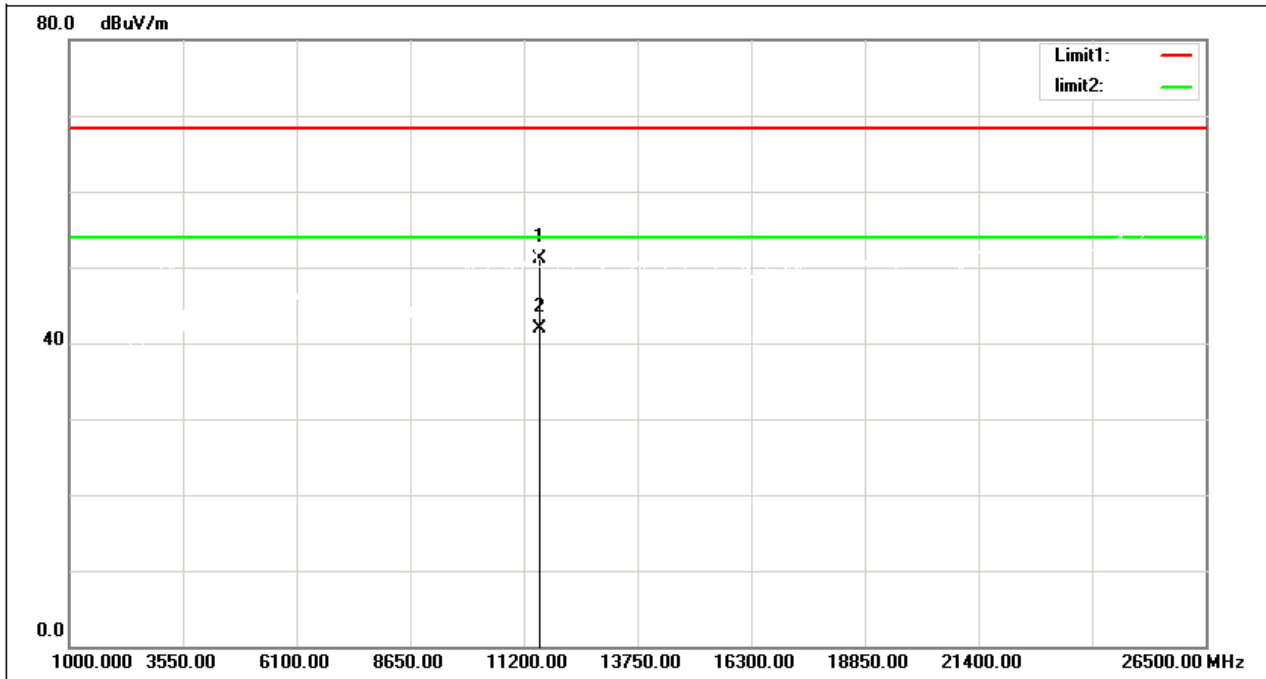
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	43.61	8.06	51.67	68.30	-16.63	peak
2	11490.000	34.74	8.06	42.80	54.00	-11.20	AVG

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

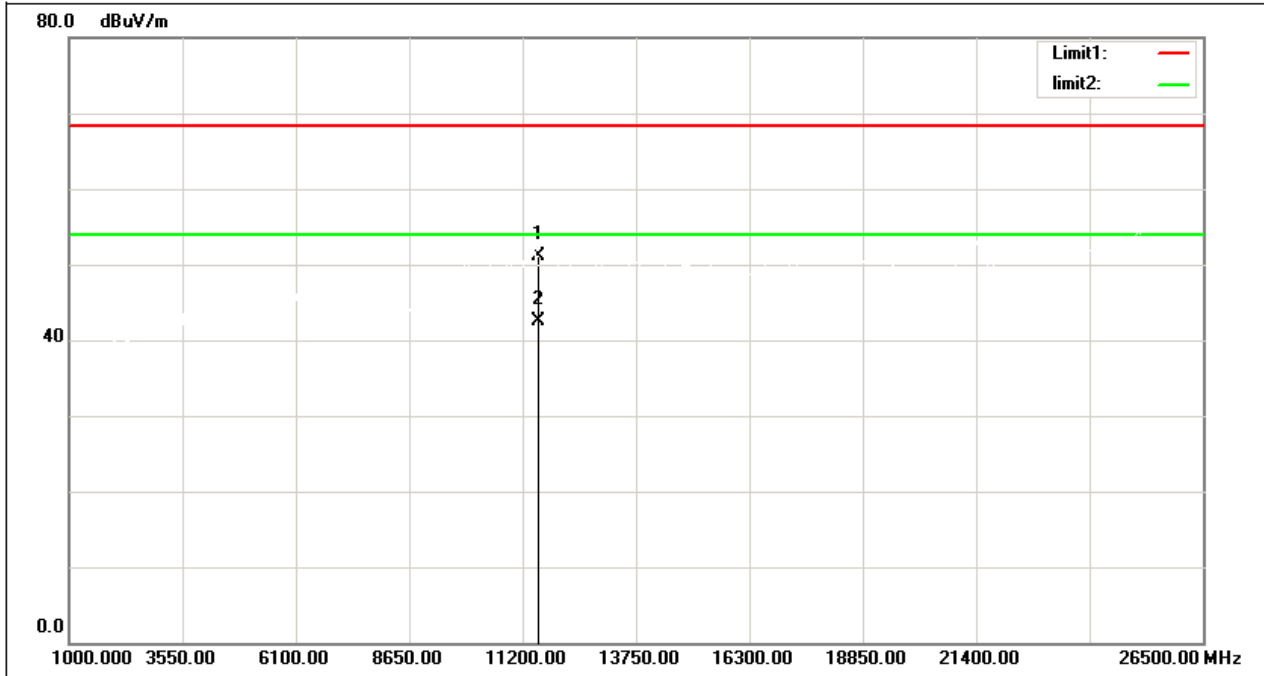
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	43.14	8.00	51.14	68.30	-17.16	peak
2	11570.000	33.88	8.00	41.88	54.00	-12.12	AVG

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

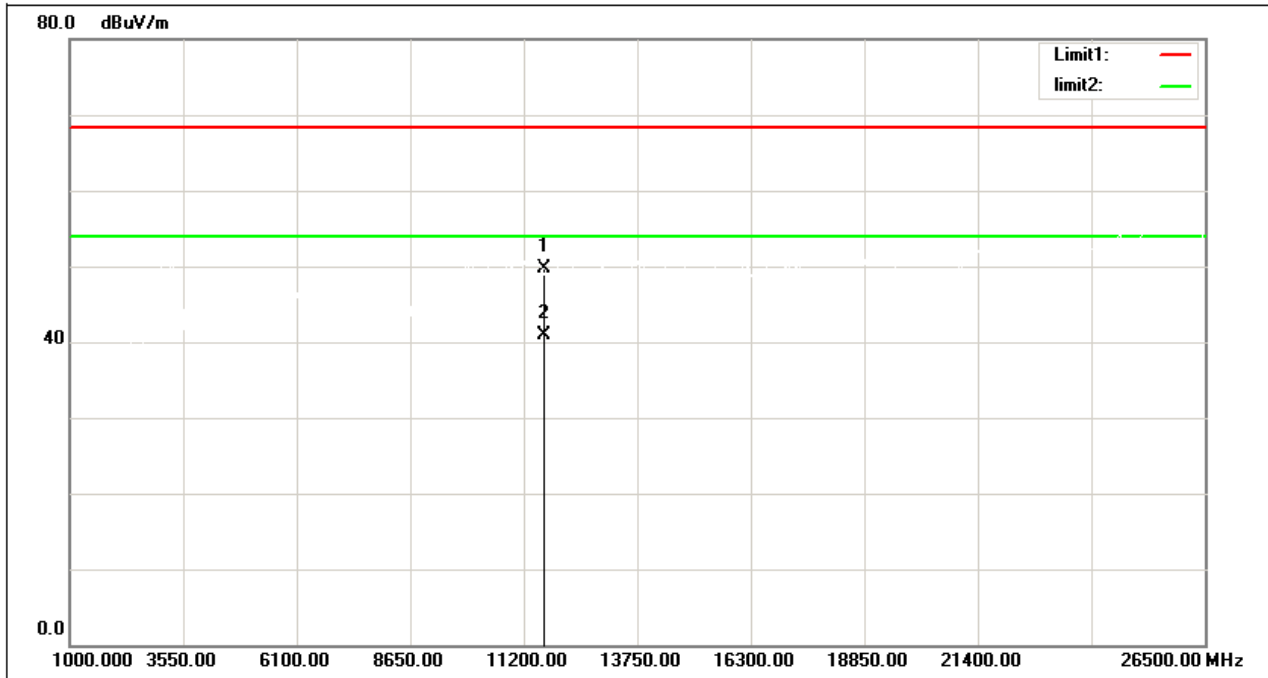
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	43.01	8.00	51.01	68.30	-17.29	peak
2	11570.000	34.55	8.00	42.55	54.00	-11.45	AVG

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

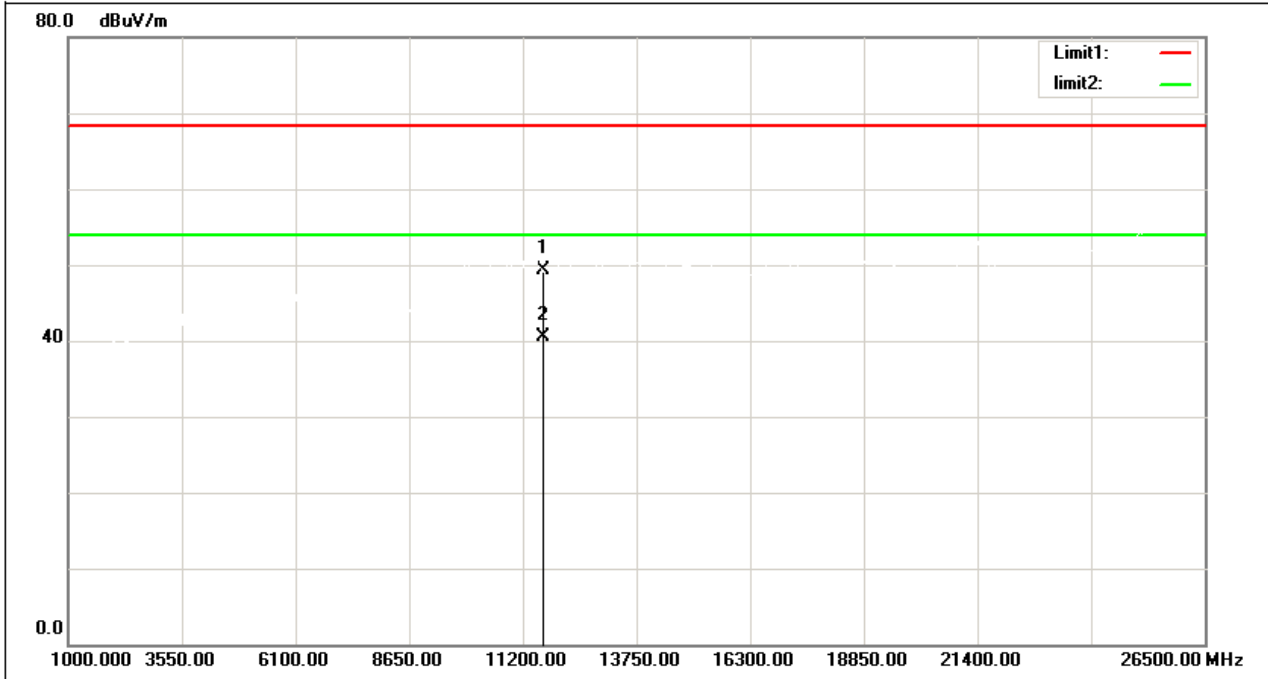
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	41.74	7.97	49.71	68.30	-18.59	peak
2	11650.000	32.85	7.97	40.82	54.00	-13.18	AVG

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

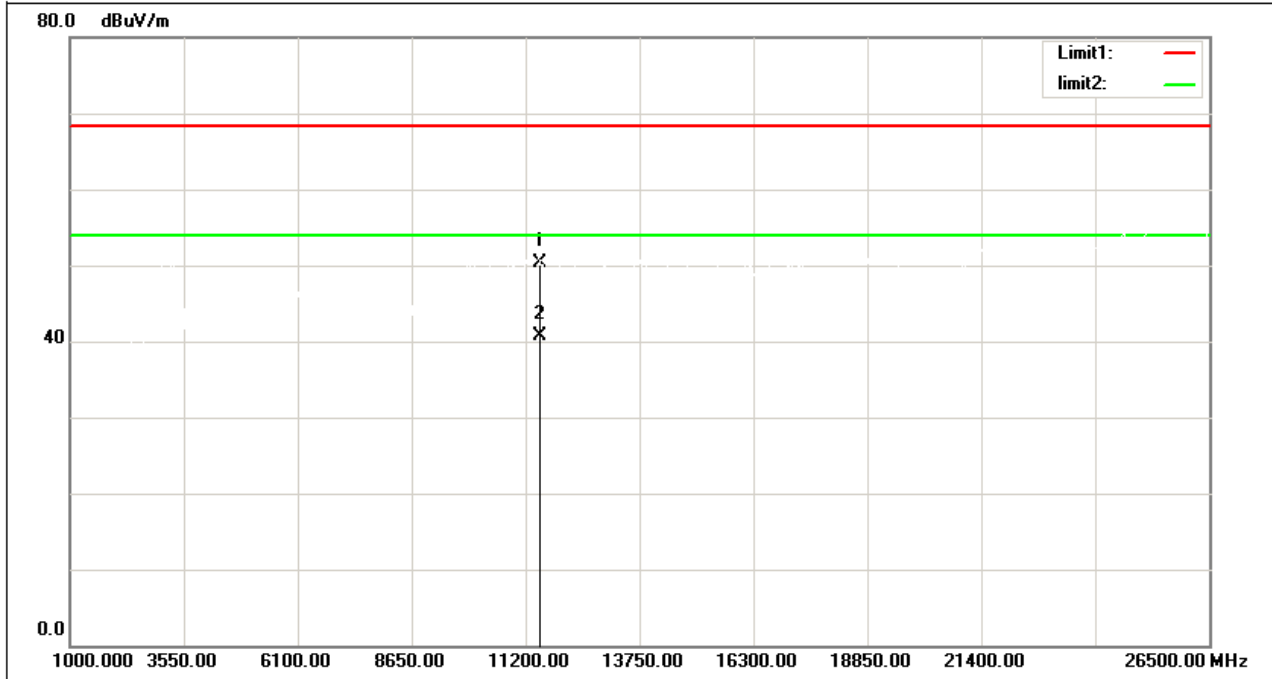
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	41.33	7.97	49.30	68.30	-19.00	peak
2	11650.000	32.58	7.97	40.55	54.00	-13.45	AVG

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

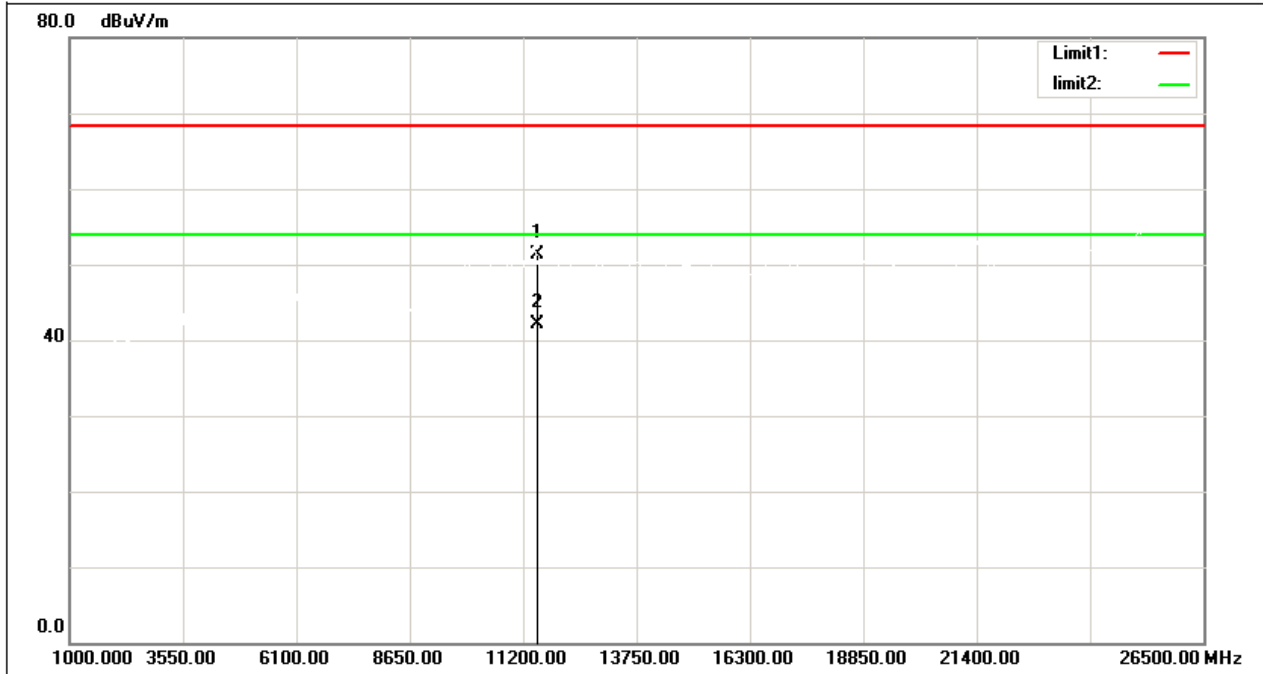
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	42.31	8.04	50.35	68.30	-17.95	peak
2	11510.000	32.66	8.04	40.70	54.00	-13.30	AVG

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

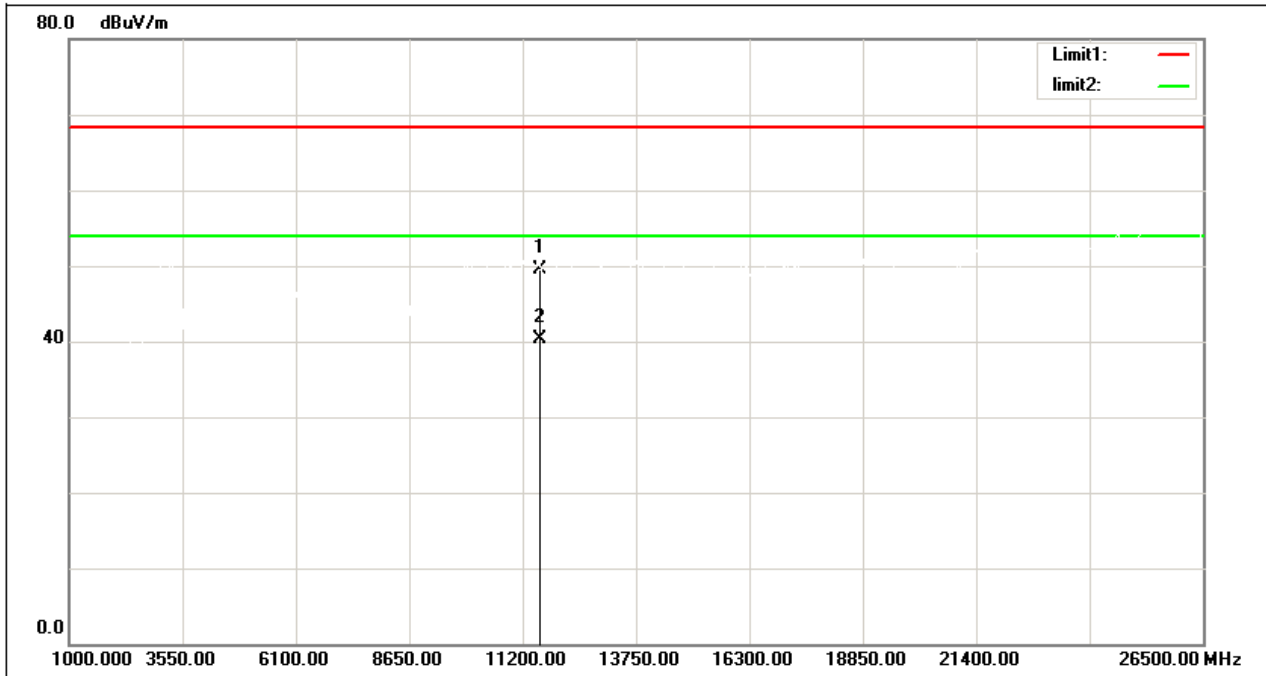
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	43.25	8.04	51.29	68.30	-17.01	peak
2	11510.000	34.11	8.04	42.15	54.00	-11.85	AVG

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

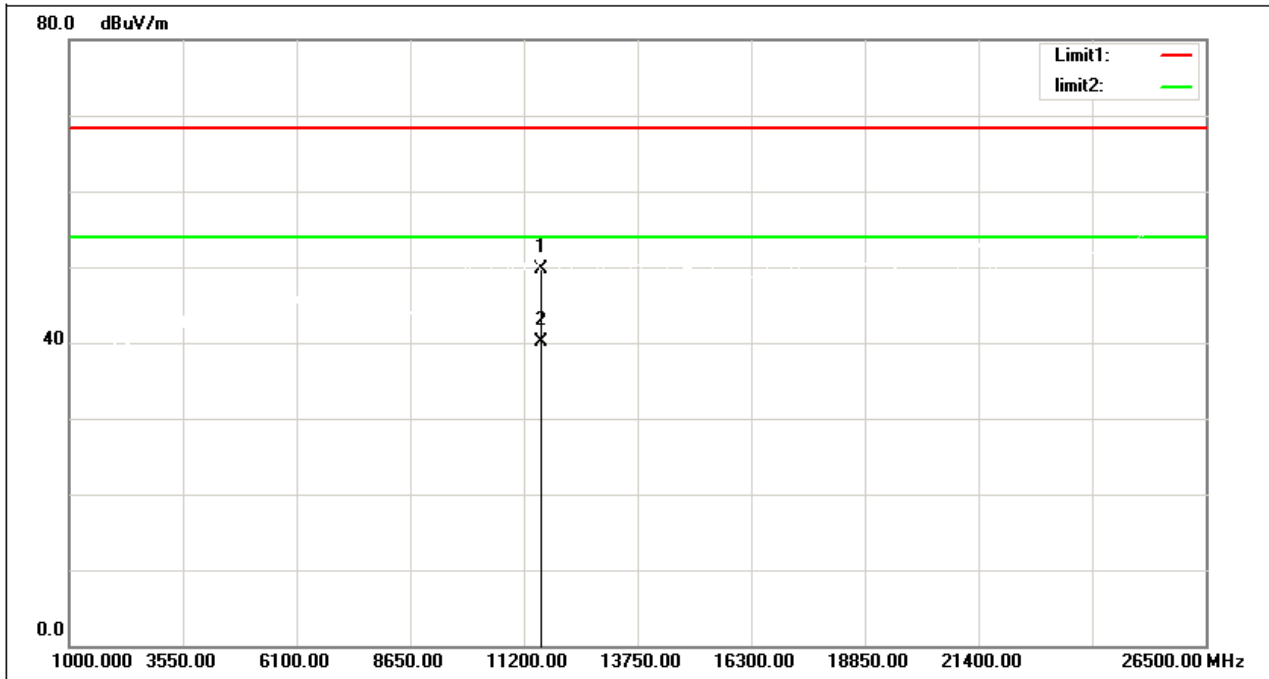
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	41.55	8.01	49.56	68.30	-18.74	peak
2	11590.000	32.33	8.01	40.34	54.00	-13.66	AVG

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

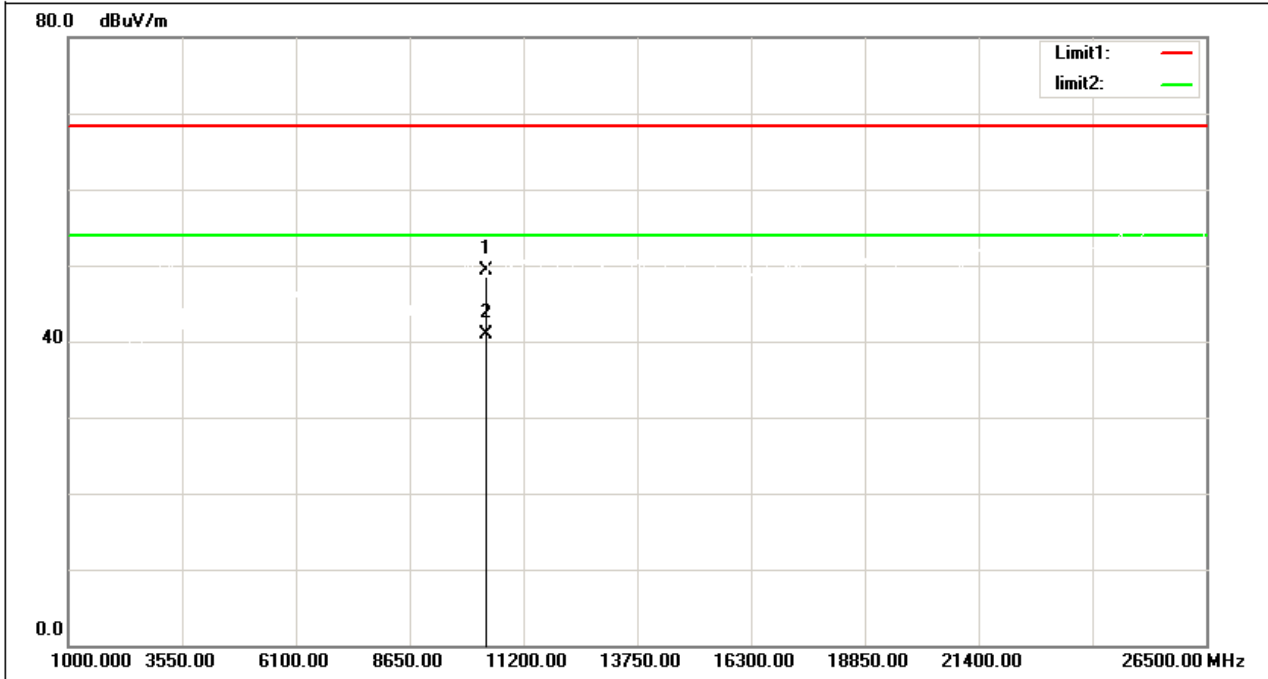
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	41.66	8.01	49.67	68.30	-18.63	peak
2	11590.000	32.01	8.01	40.02	54.00	-13.98	AVG

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

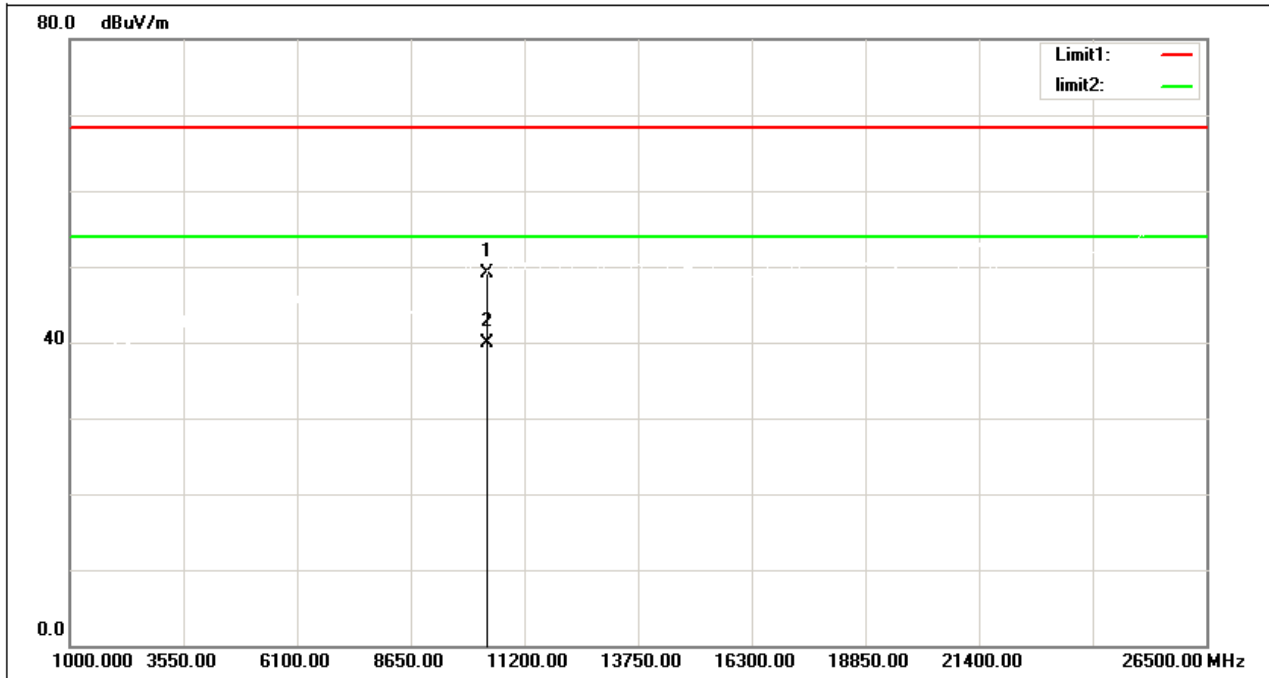
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	43.15	6.22	49.37	68.30	-18.93	peak
2	10360.000	34.64	6.22	40.86	54.00	-13.14	AVG

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

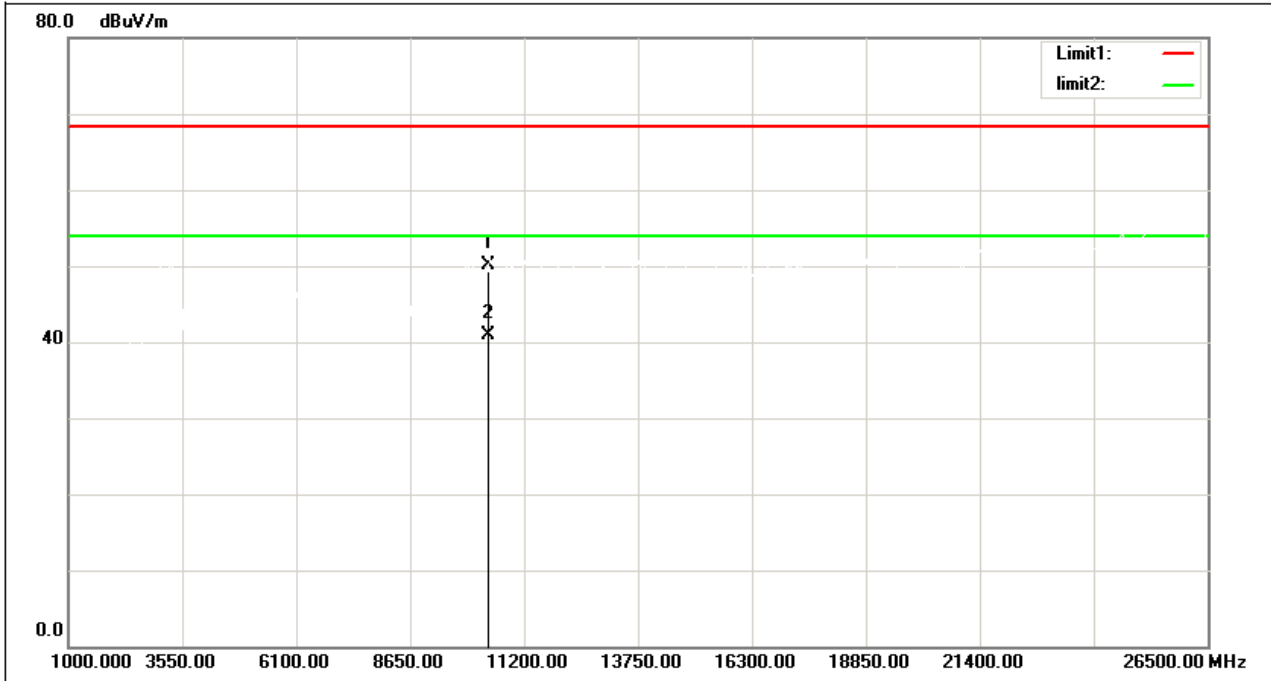
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	42.81	6.22	49.03	68.30	-19.27	peak
2	10360.000	33.61	6.22	39.83	54.00	-14.17	AVG

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

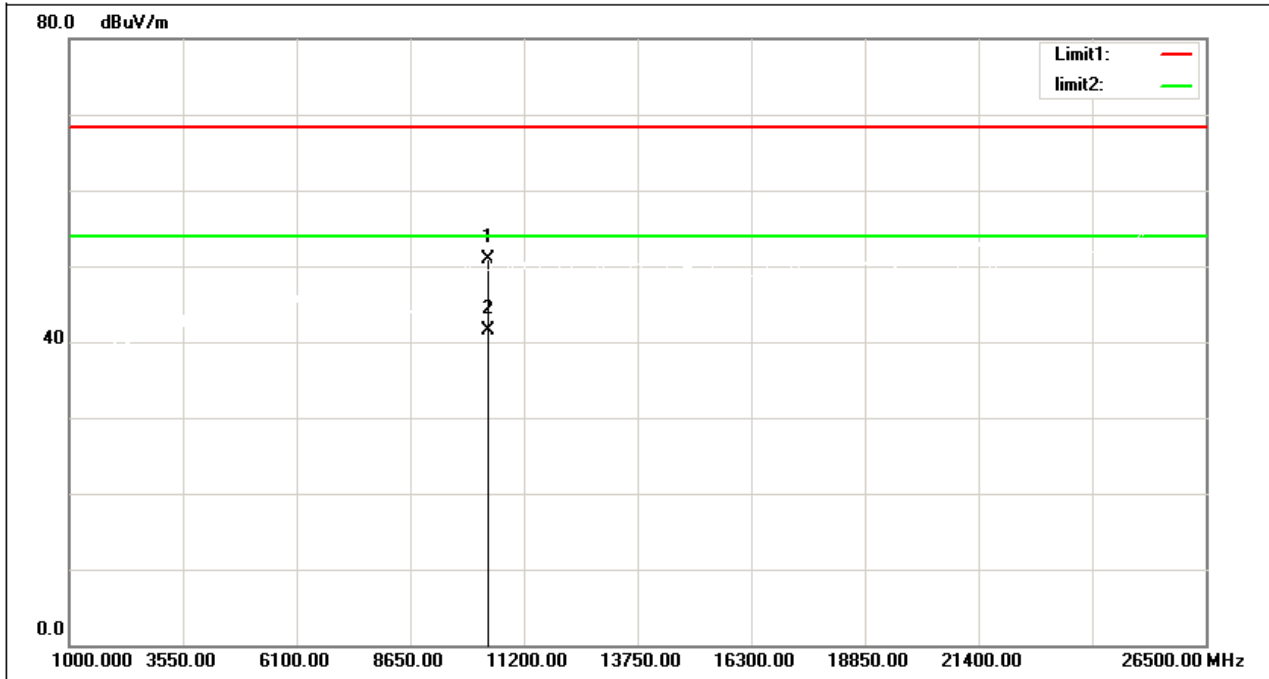
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	43.72	6.35	50.07	68.30	-18.23	peak
2	10400.000	34.64	6.35	40.99	54.00	-13.01	AVG

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

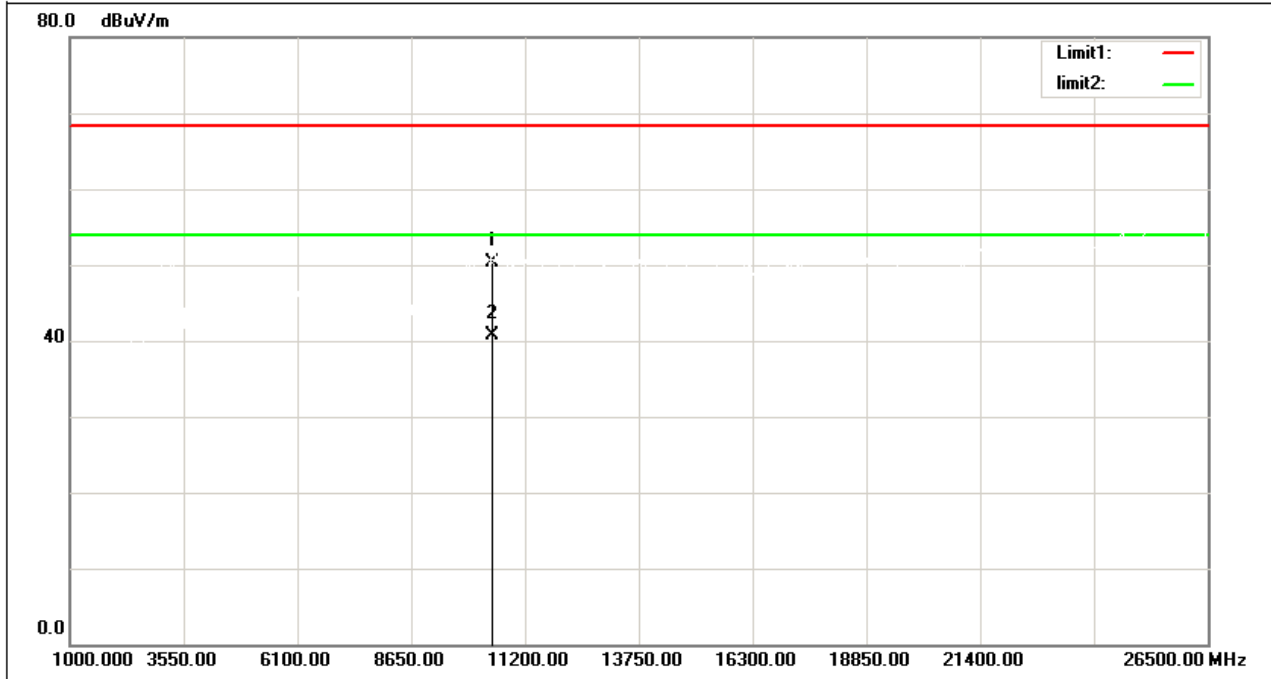
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	44.58	6.35	50.93	68.30	-17.37	peak
2	10400.000	35.14	6.35	41.49	54.00	-12.51	AVG

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

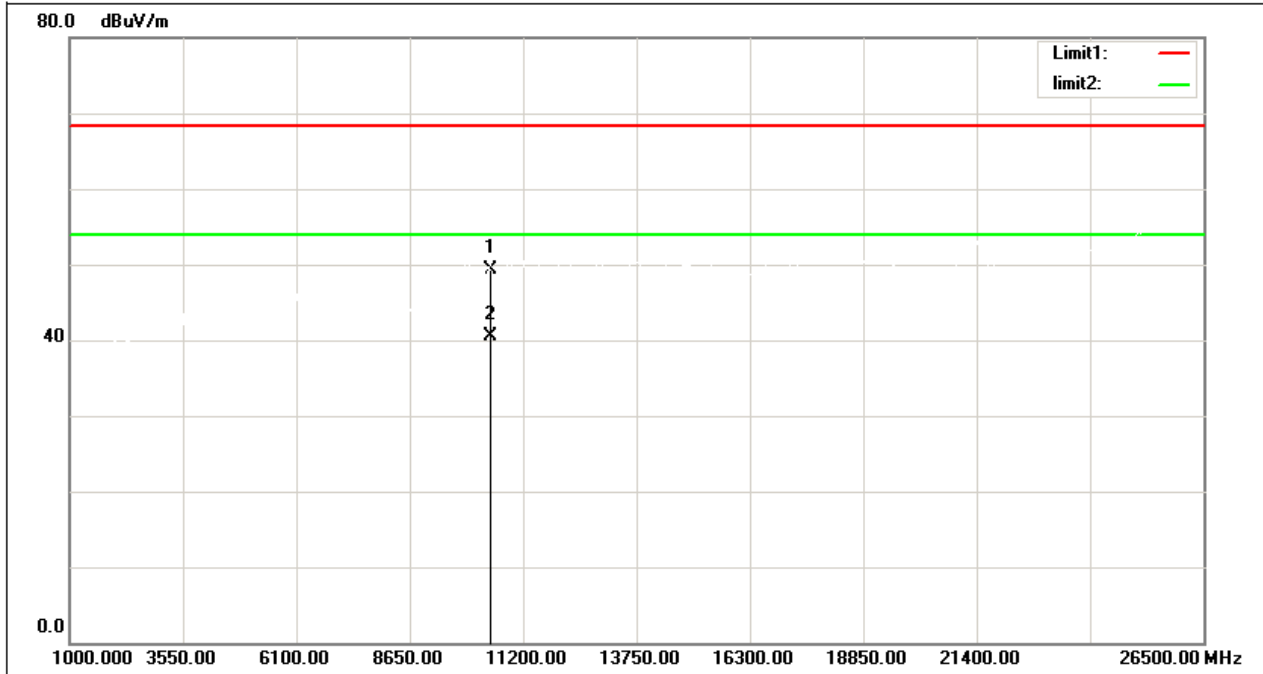
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	43.66	6.61	50.27	68.30	-18.03	peak
2	10480.000	34.18	6.61	40.79	54.00	-13.21	AVG

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

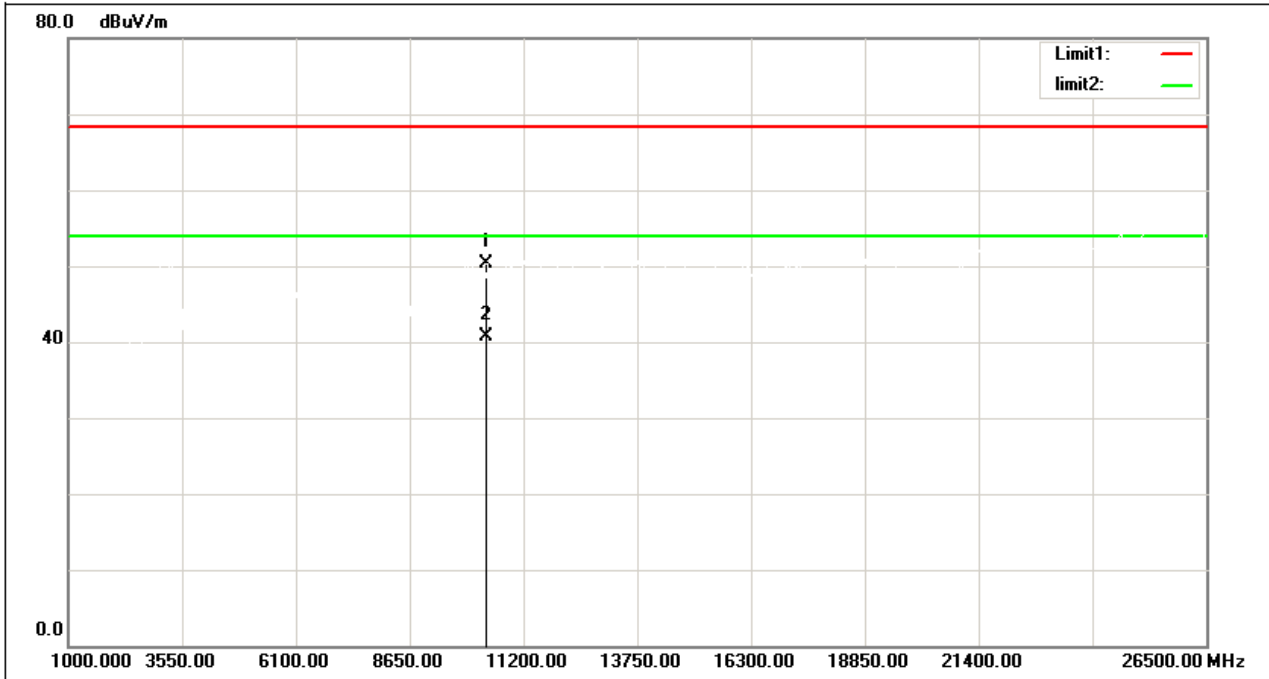
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	42.71	6.61	49.32	68.30	-18.98	peak
2	10480.000	33.84	6.61	40.45	54.00	-13.55	AVG

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

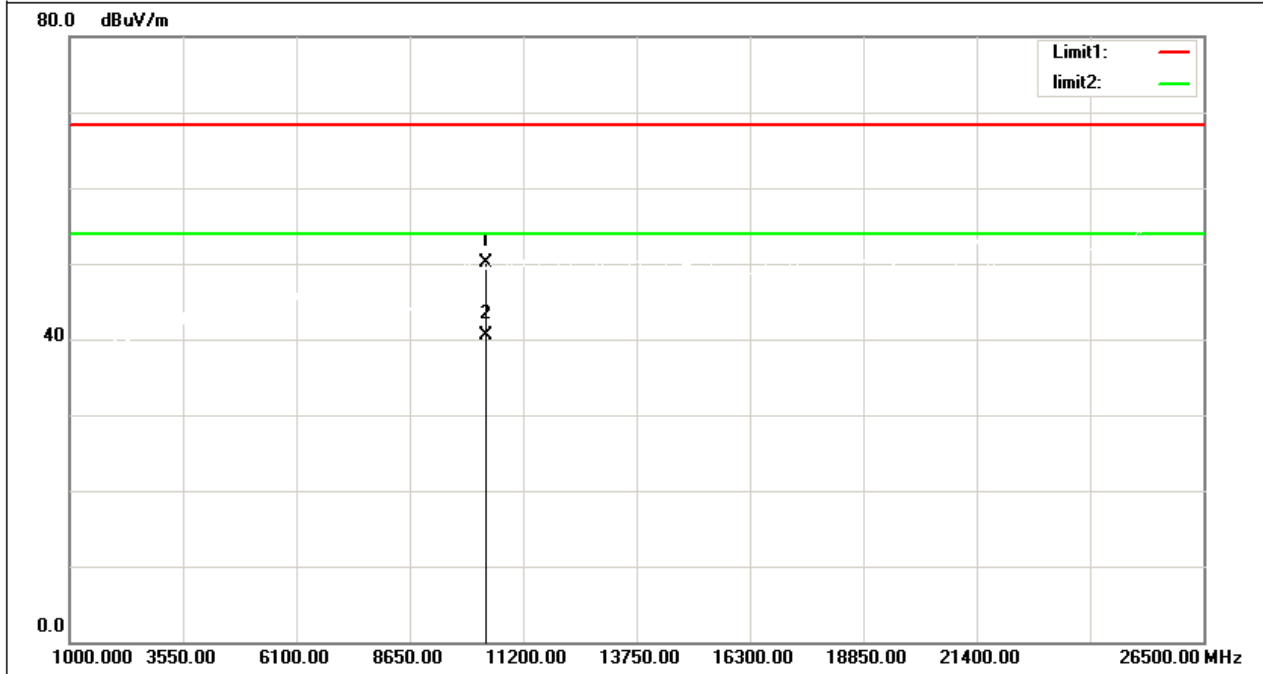
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	43.97	6.28	50.25	68.30	-18.05	peak
2	10380.000	34.44	6.28	40.72	54.00	-13.28	AVG

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

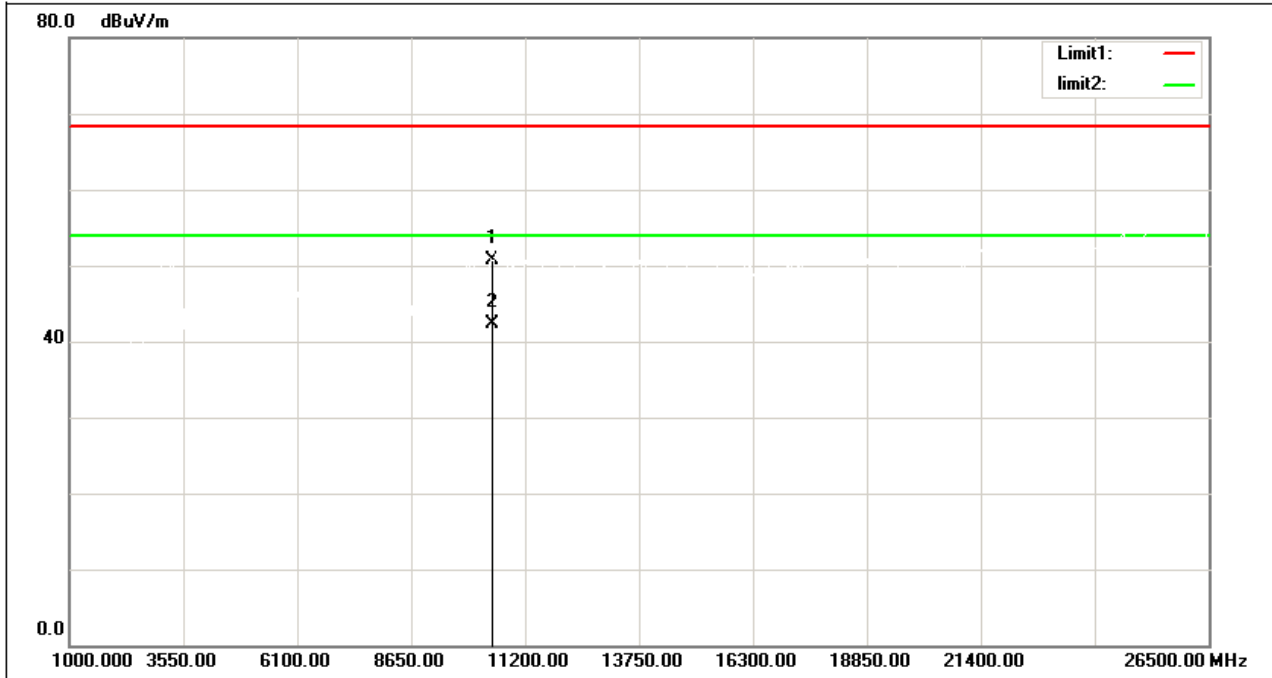
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	43.88	6.28	50.16	68.30	-18.14	peak
2	10380.000	34.14	6.28	40.42	54.00	-13.58	AVG

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

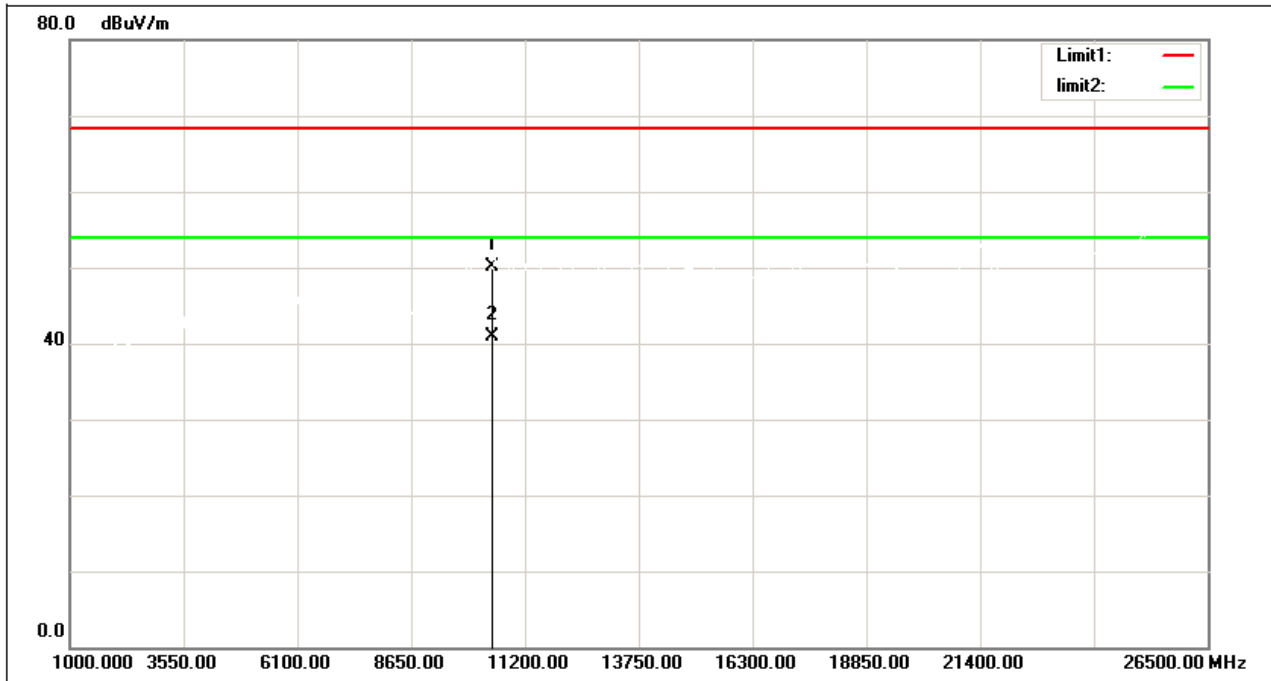
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	44.14	6.55	50.69	68.30	-17.61	peak
2	10460.000	35.82	6.55	42.37	54.00	-11.63	AVG

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

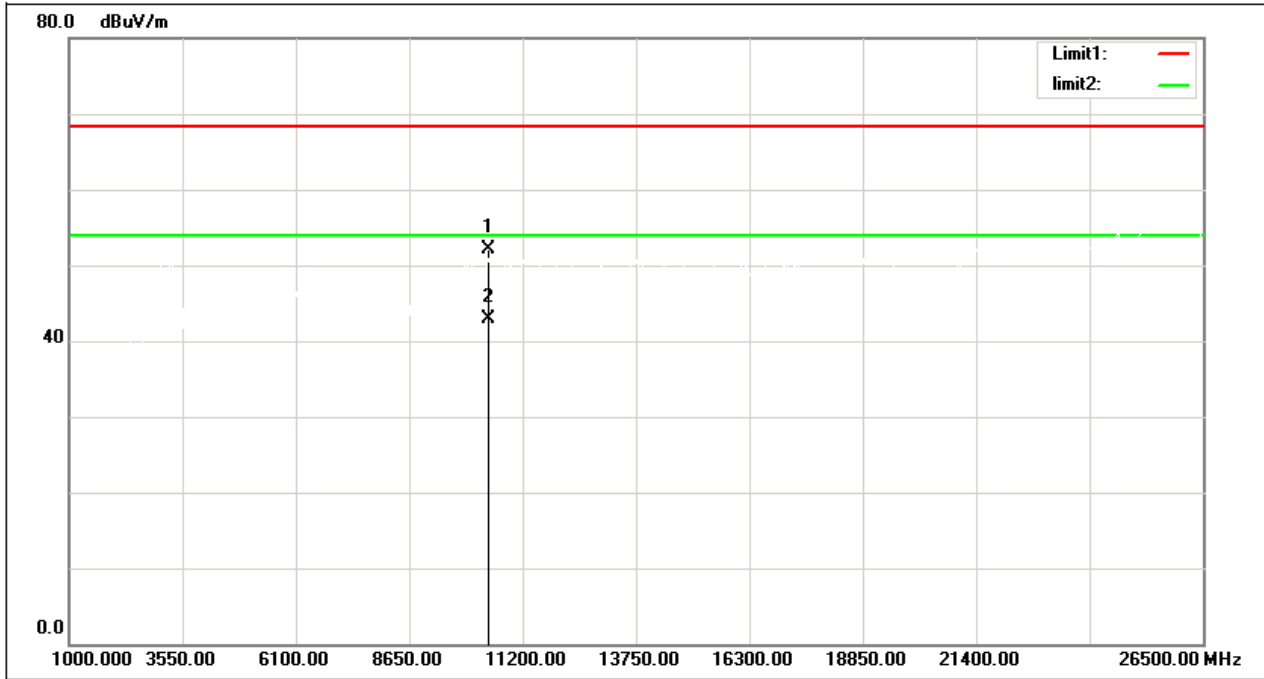
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	43.46	6.55	50.01	68.30	-18.29	peak
2	10460.000	34.29	6.55	40.84	54.00	-13.16	AVG

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

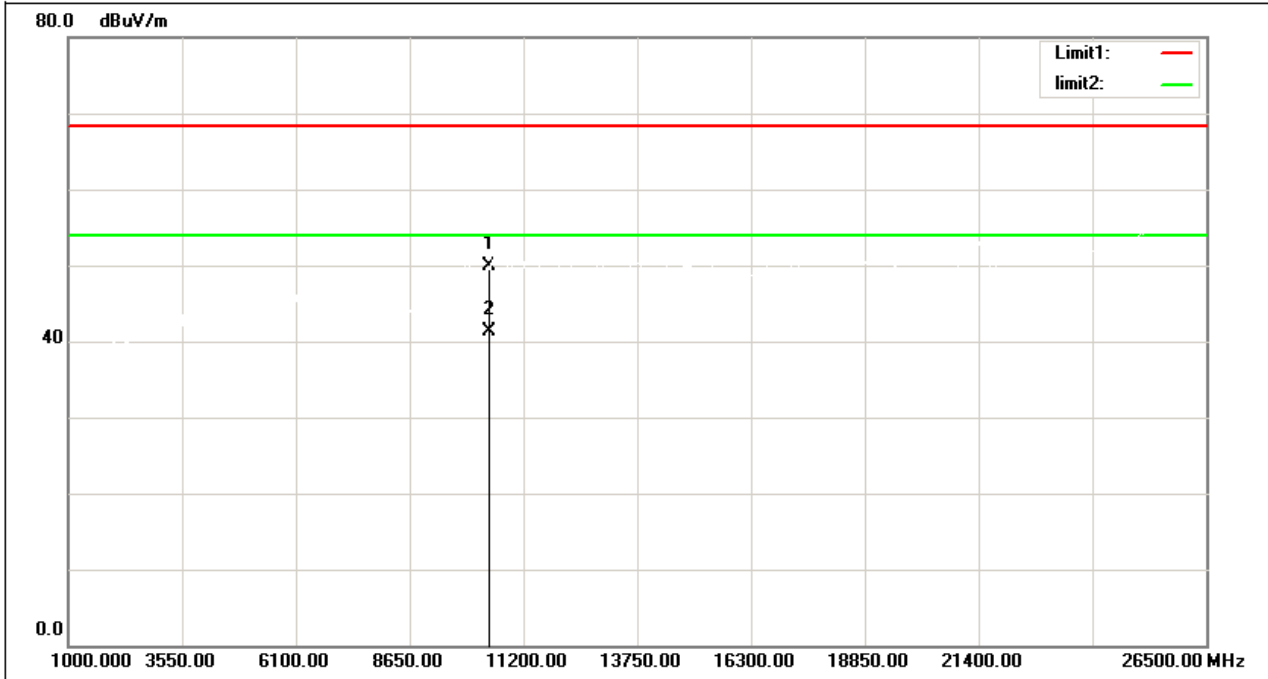
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	45.76	6.41	52.17	68.30	-16.13	peak
2	10420.000	36.58	6.41	42.99	54.00	-11.01	AVG

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

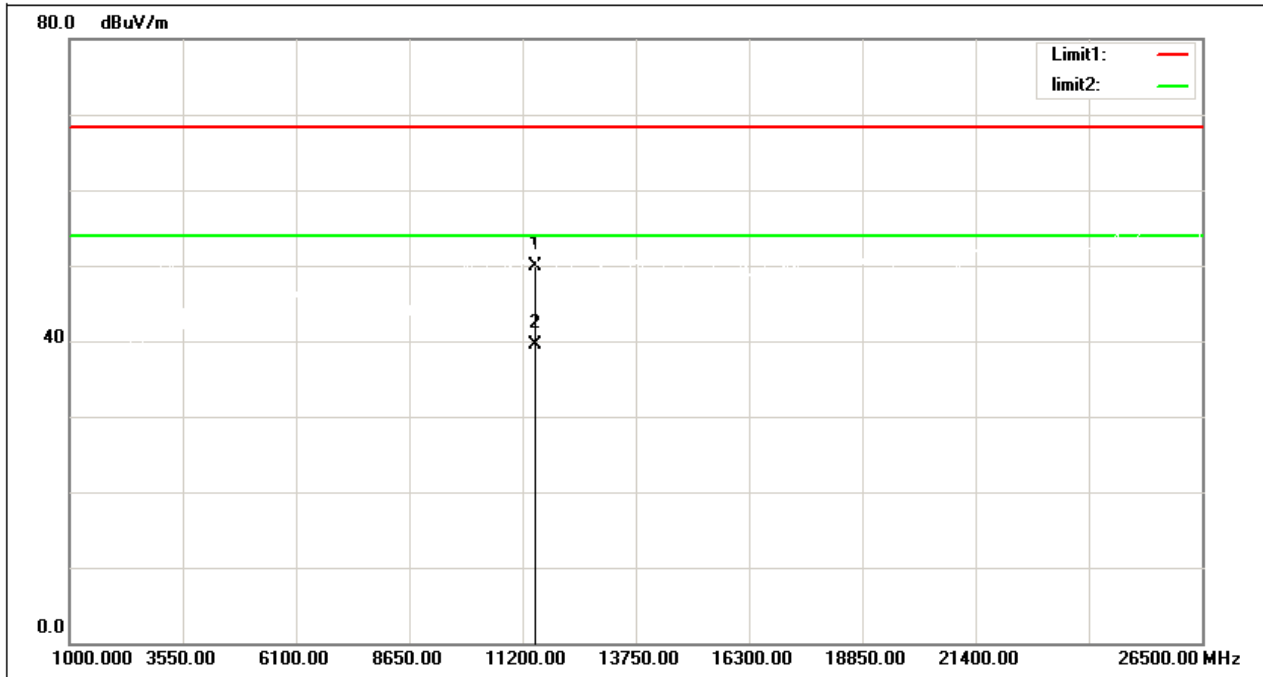
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	43.45	6.41	49.86	68.30	-18.44	peak
2	10420.000	34.87	6.41	41.28	54.00	-12.72	AVG

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

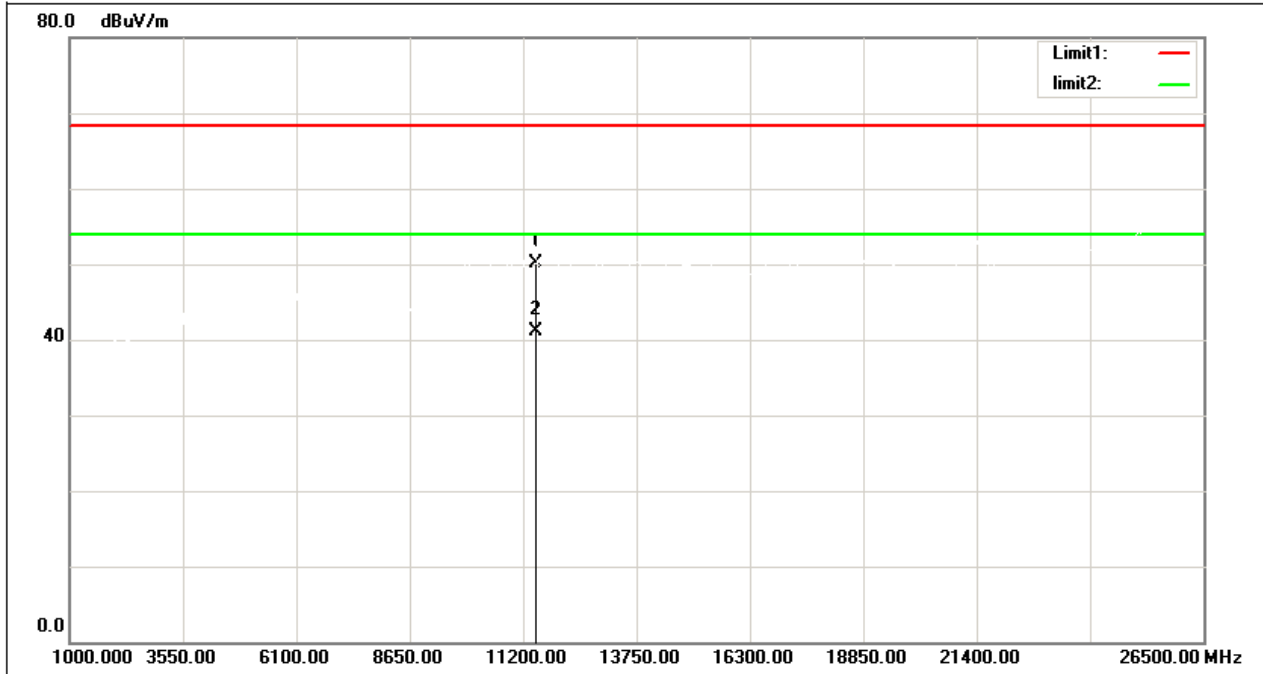
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	41.77	8.06	49.83	68.30	-18.47	peak
2	11490.000	31.54	8.06	39.60	54.00	-14.40	AVG

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

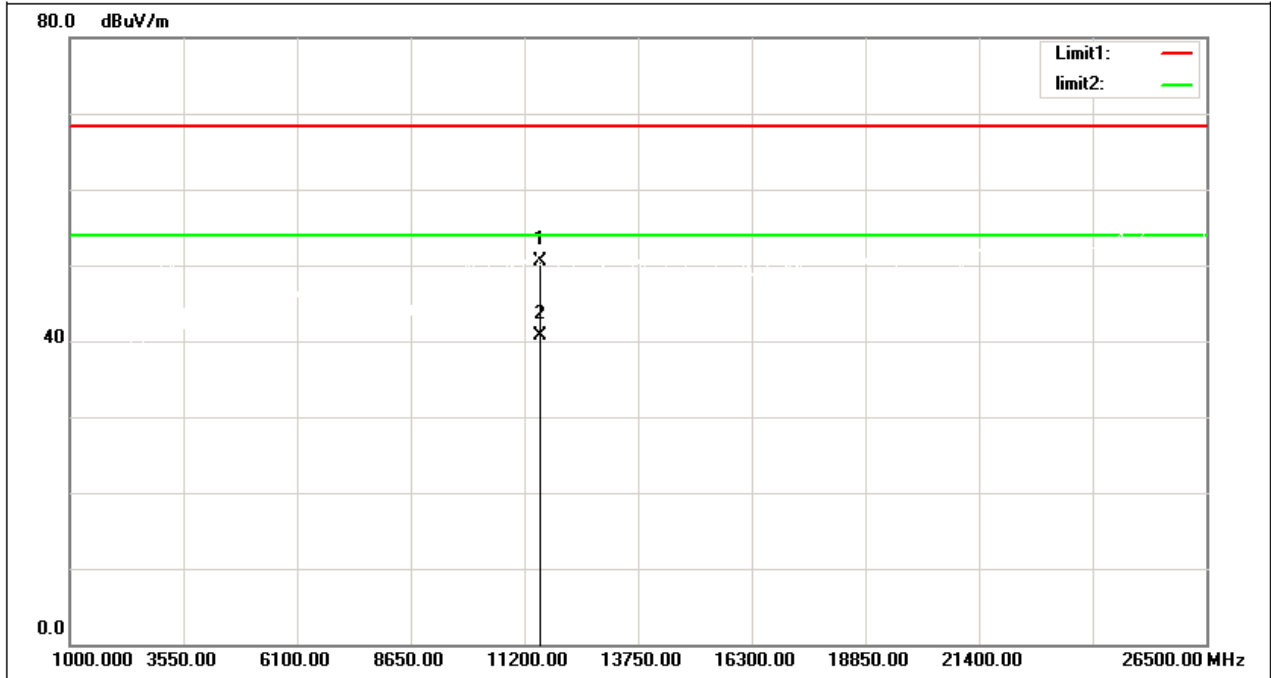
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	42.08	8.06	50.14	68.30	-18.16	peak
2	11490.000	33.04	8.06	41.10	54.00	-12.90	AVG

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

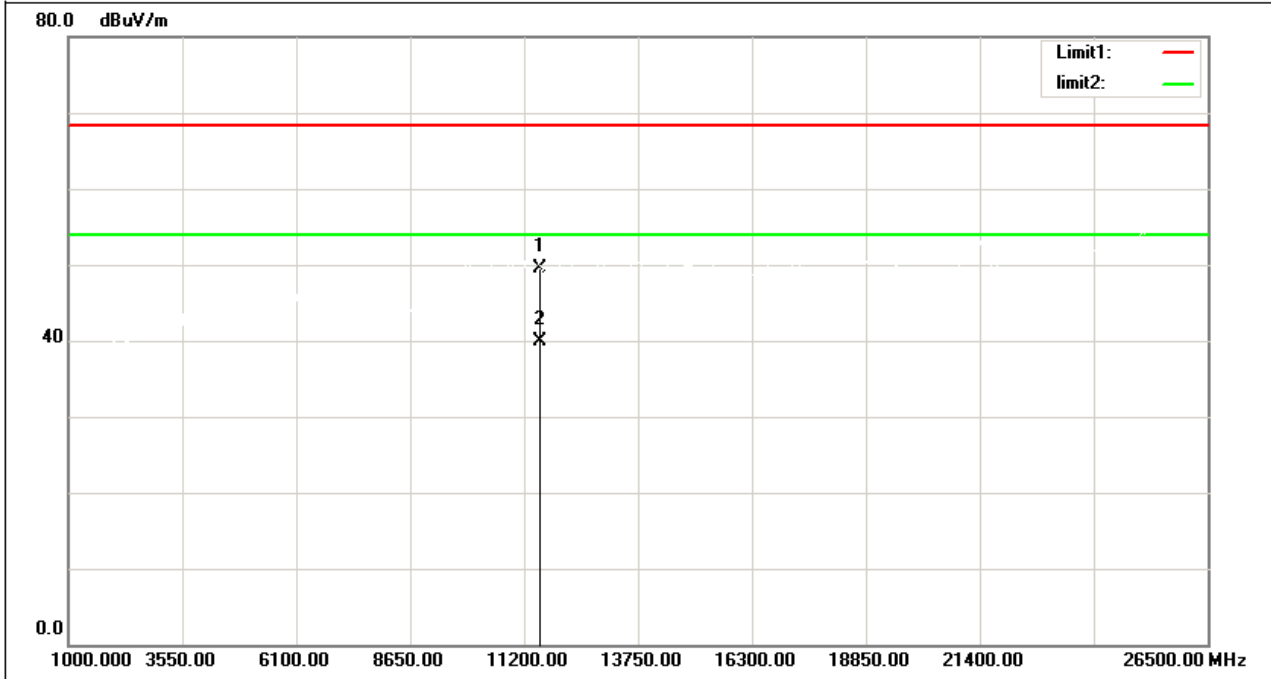
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	42.54	8.00	50.54	68.30	-17.76	peak
2	11570.000	32.65	8.00	40.65	54.00	-13.35	AVG

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

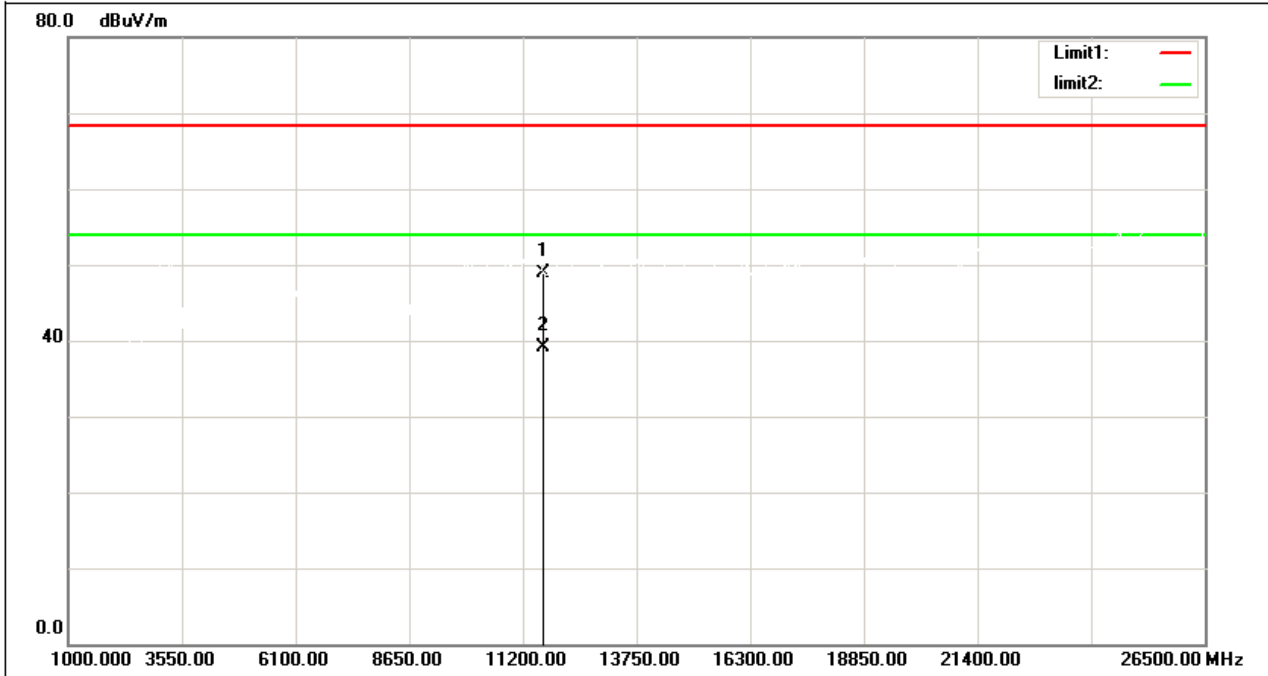
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	41.41	8.00	49.41	68.30	-18.89	peak
2	11570.000	31.99	8.00	39.99	54.00	-14.01	AVG

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

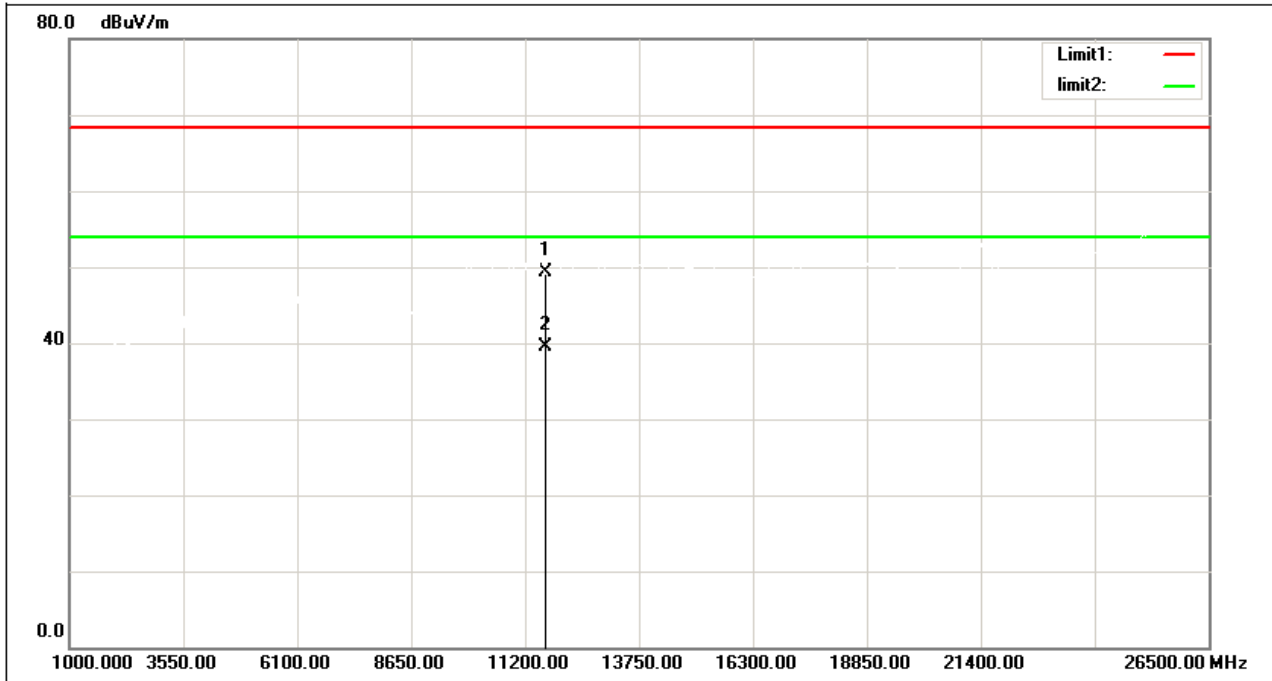
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	40.99	7.97	48.96	68.30	-19.34	peak
2	11650.000	31.05	7.97	39.02	54.00	-14.98	AVG

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

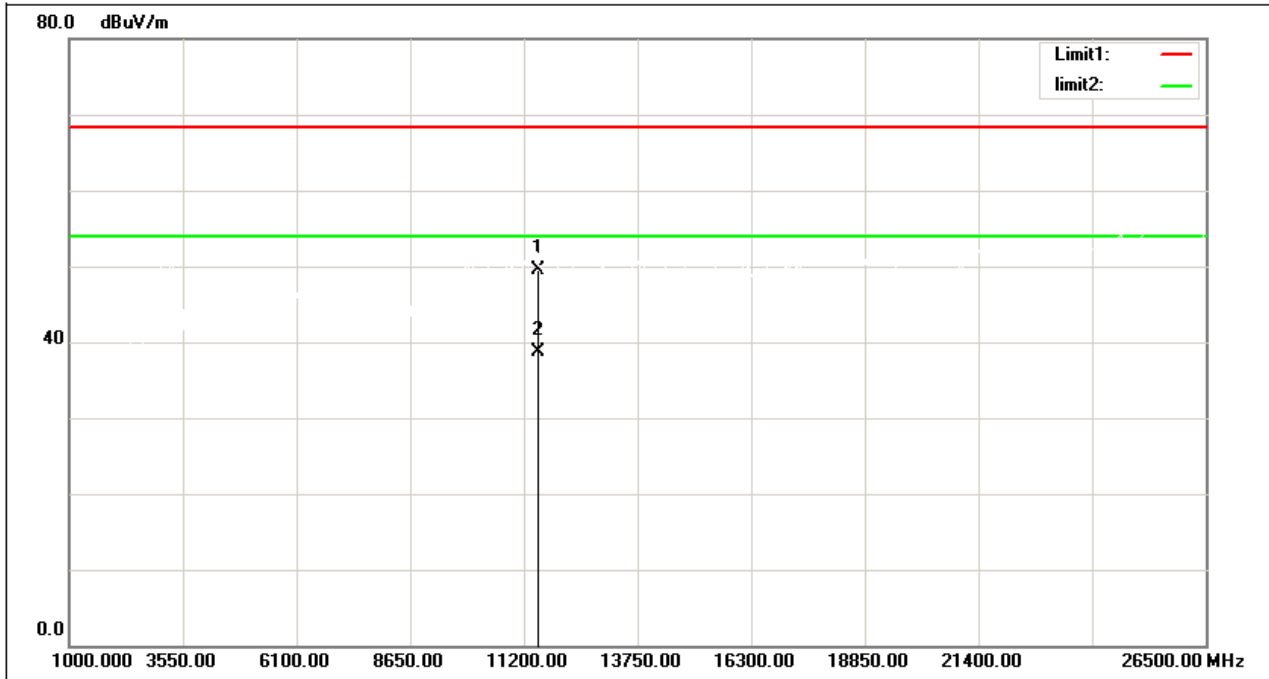
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	41.34	7.97	49.31	68.30	-18.99	peak
2	11650.000	31.56	7.97	39.53	54.00	-14.47	AVG

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

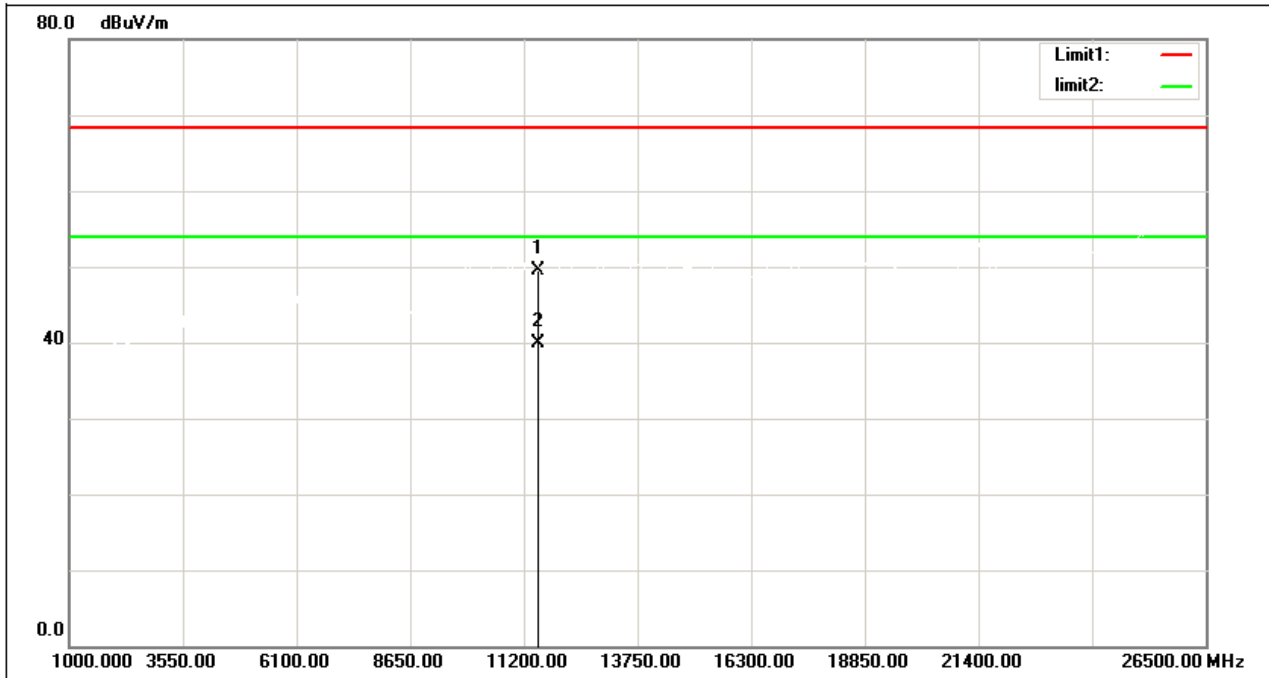
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	41.38	8.04	49.42	68.30	-18.88	peak
2	11510.000	30.64	8.04	38.68	54.00	-15.32	AVG

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

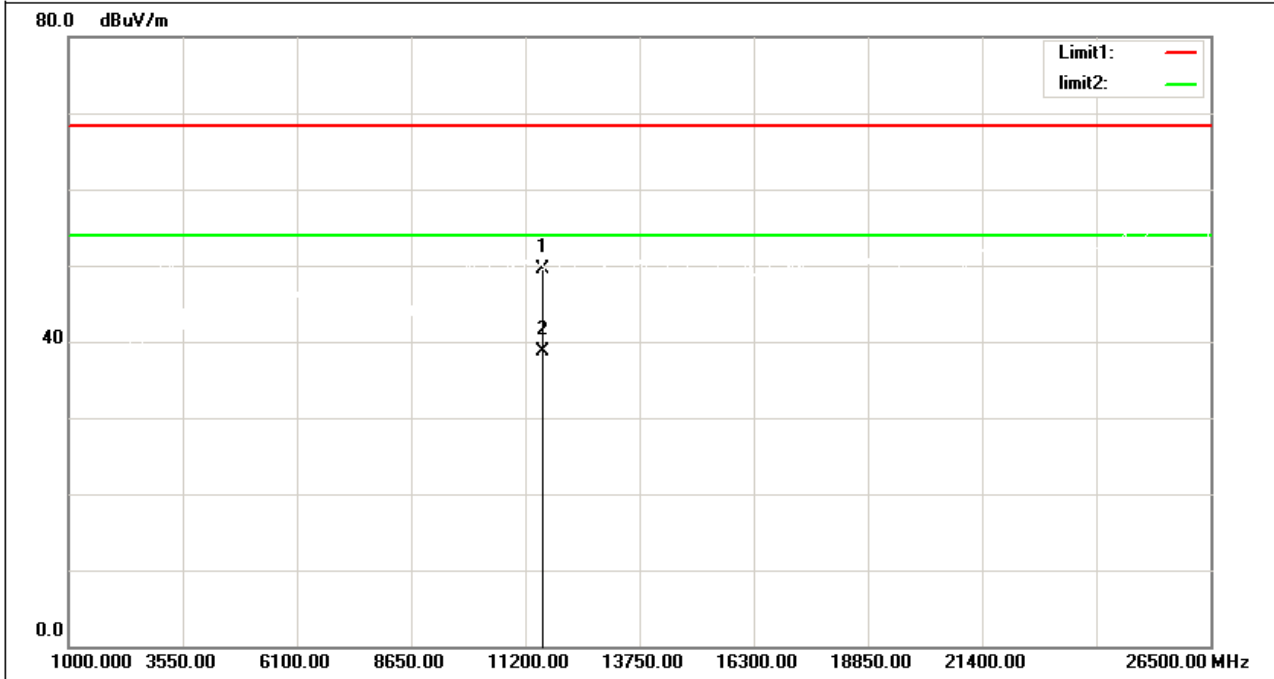
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	41.54	8.04	49.58	68.30	-18.72	peak
2	11510.000	31.88	8.04	39.92	54.00	-14.08	AVG

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

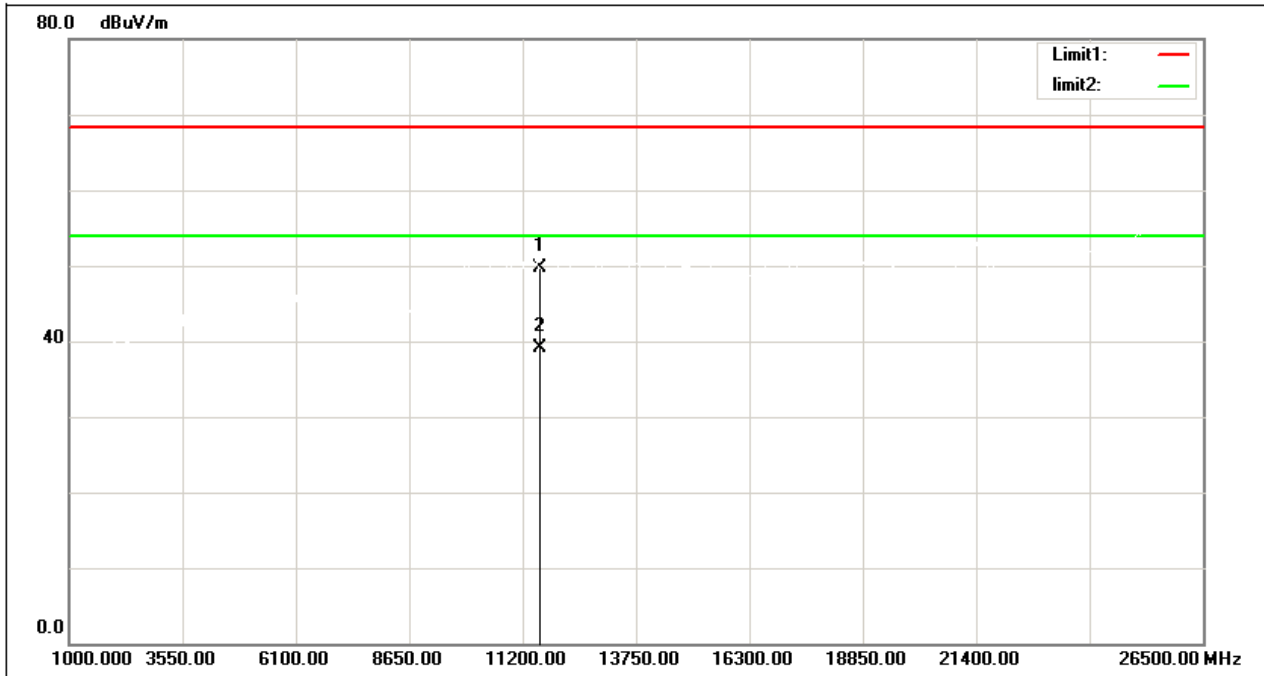
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	41.55	8.01	49.56	68.30	-18.74	peak
2	11590.000	30.79	8.01	38.80	54.00	-15.20	AVG

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

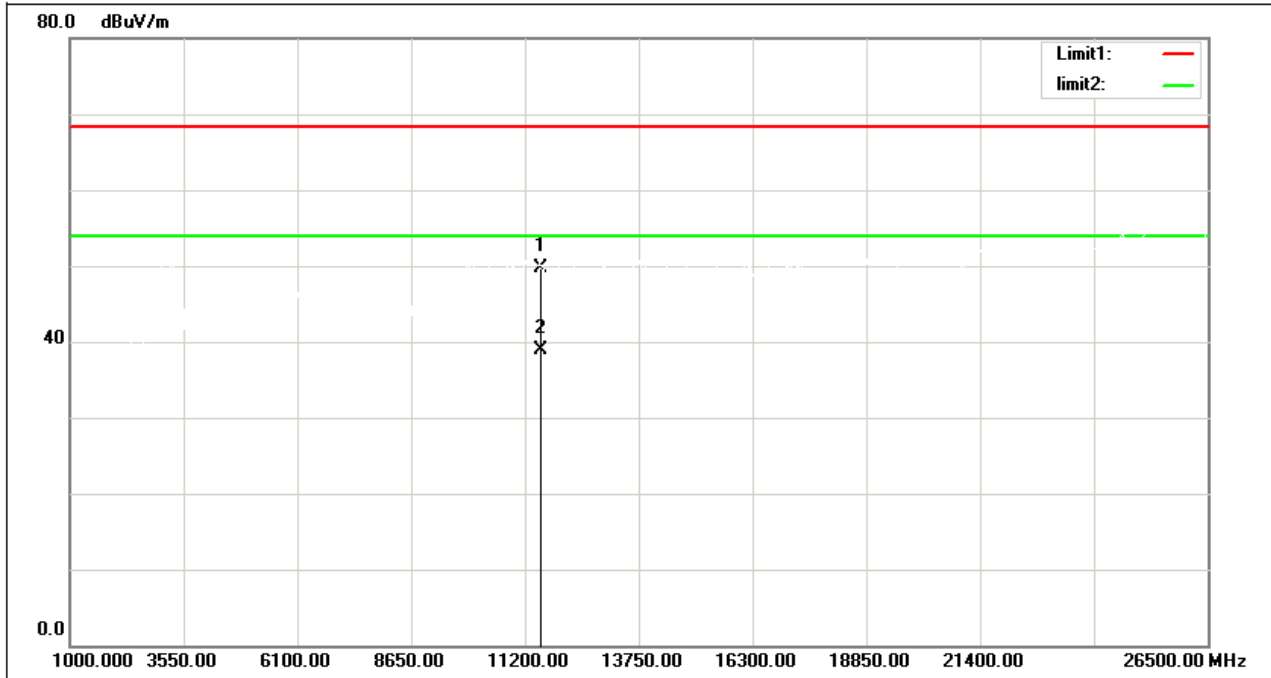
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	41.64	8.01	49.65	68.30	-18.65	peak
2	11590.000	31.00	8.01	39.01	54.00	-14.99	AVG

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

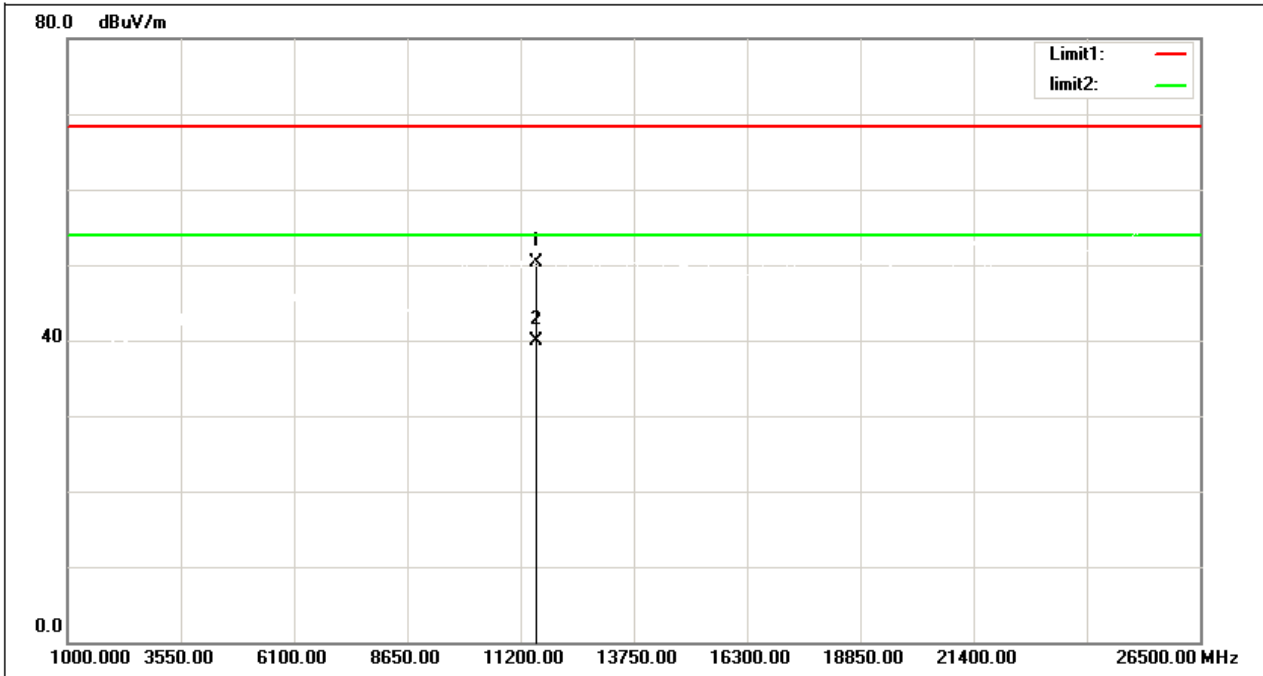
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	41.66	8.02	49.68	68.30	-18.62	peak
2	11550.000	30.87	8.02	38.89	54.00	-15.11	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	42.34	8.02	50.36	68.30	-17.94	peak
2	11550.000	31.85	8.02	39.87	54.00	-14.13	AVG

6.BANDWIDTH TEST

6.1.LIMIT

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

6.2.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:

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

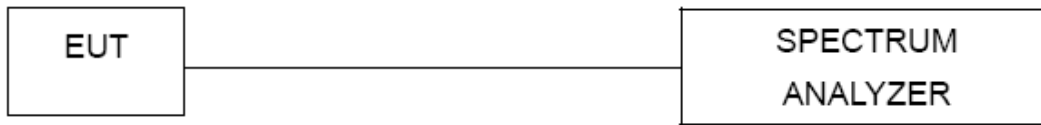
For UNII-3:

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

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

6.3.MEASUREMENT INSTRUMENTS LIST

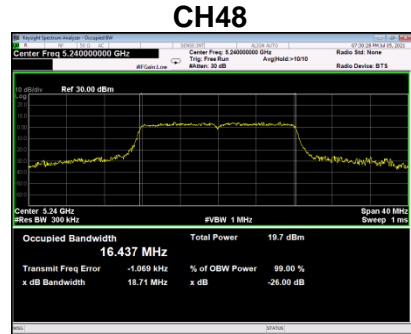
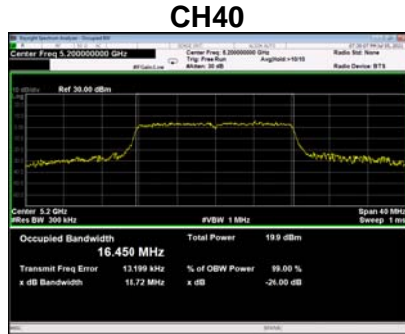
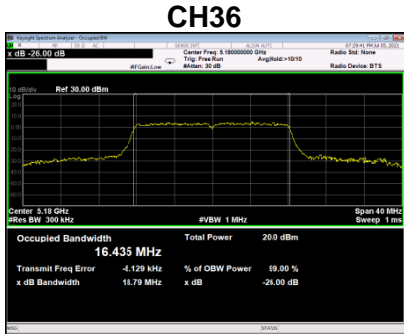
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/23
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

6.4.TEST SETUP**6.5.EUT OPERATION CONDITIONS**

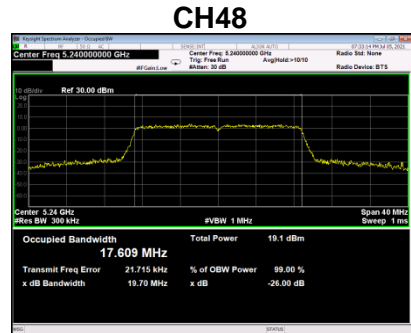
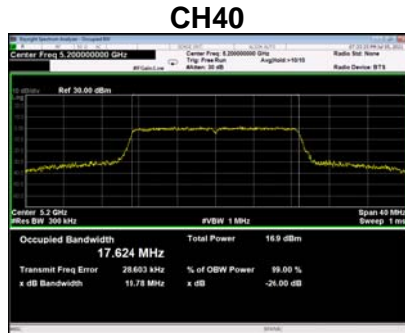
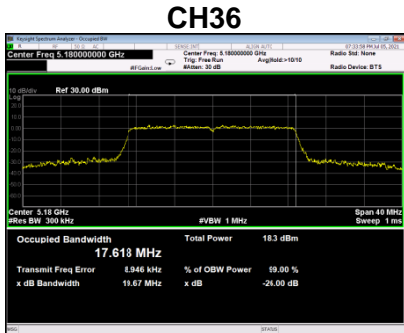
The EUT was programmed to be in continuously transmitting mode.

6.6. TEST RESULTS

UNII-1_TX A Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	18.79	16.435
40	5200	18.72	16.450
48	5240	18.71	16.437



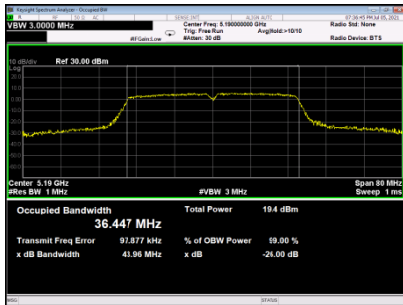
UNII-1_TX N (HT20) Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	19.67	17.618
40	5200	19.78	17.624
48	5240	19.70	17.609



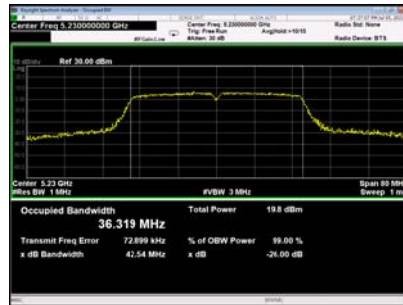
UNII-1_TX N (HT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	43.96	36.447
46	5230	42.54	36.319

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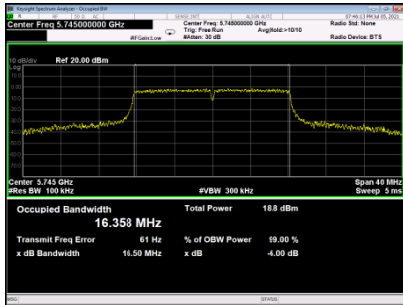
CH46



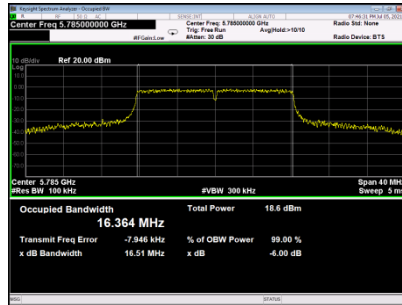
UNII-3 TX A Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	16.50	16.441	500	PASS
157	5785	16.51	16.468	500	PASS
165	5825	16.50	16.465	500	PASS

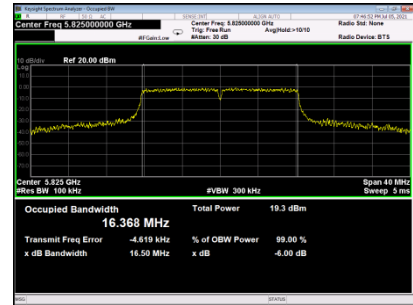
CH149



**6 dB Bandwidth
CH157**

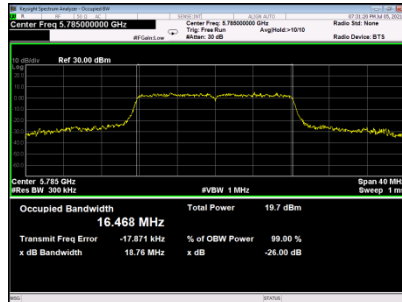
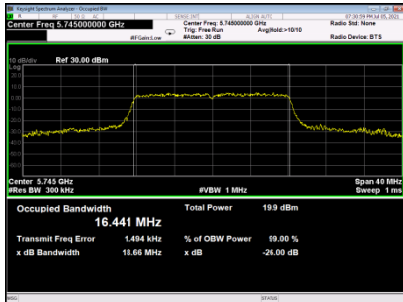


CH165

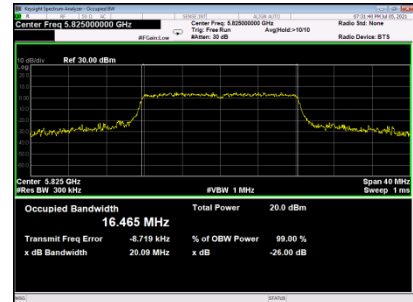


**99% Emission Bandwidth
CH157**

CH149



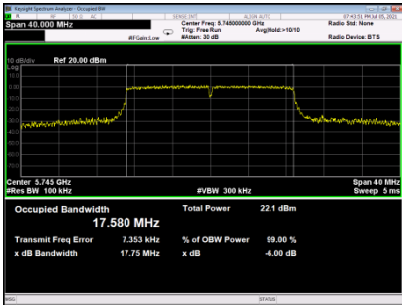
CH165



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	17.75	17.617	500	PASS
157	5785	17.72	17.634	500	PASS
165	5825	17.74	17.609	500	PASS

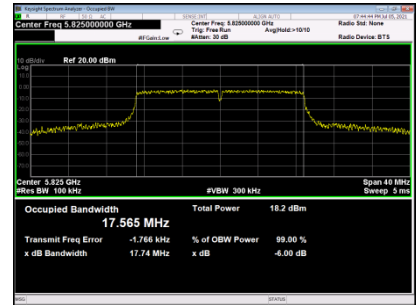
CH149



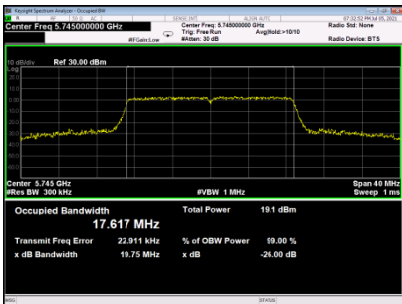
**6 dB Bandwidth
CH157**



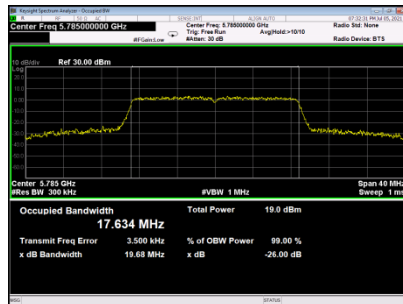
CH165



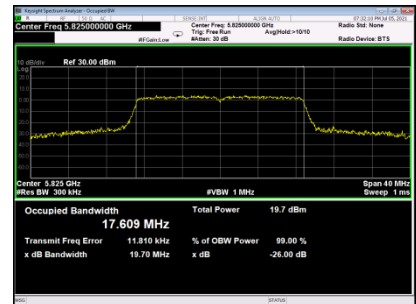
CH149



**99% Emission Bandwidth
CH157**



CH165

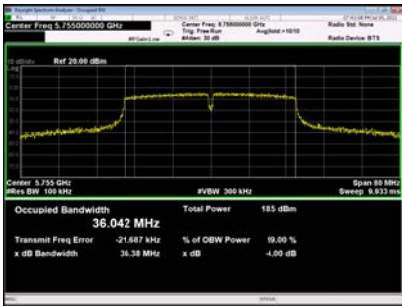


UNII-3_TX N (HT40) Mode

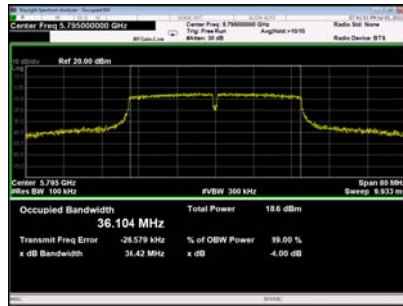
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
151	5755	36.38	36.220	500	PASS
159	5795	36.42	36.369	500	PASS

6 dB Bandwidth

CH151

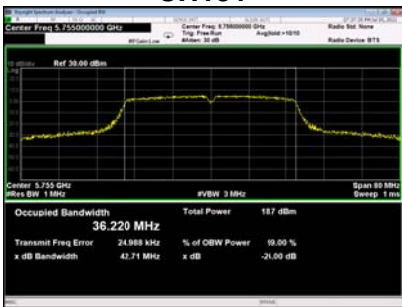


CH159



99% Emission Bandwidth

CH151



CH159

