

FCC Radio Test Report

FCC ID: Q3N-9700A

This report concerns (check one): Original Grant Class I Change Class II Change

Project No. : 1611066
Equipment : Mobile Computer
Test Model : 9700A
Series Model : N/A
Applicant : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan

Date of Receipt : Nov. 22, 2016
Date of Test : Nov. 22, 2016 ~ Jan. 13, 2017
Issued Date : Jan. 17, 2017
Tested by : BTL Inc.

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-4-1611066	Original Issue.	Jan. 17, 2017

1. CERTIFICATION

Equipment : Mobile Computer
Brand Name : CIPHERLAB
Test Model : 9700A
Series Model : N/A
Applicant : CIPHERLAB CO., LTD.
Manufacturer : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan
Factory : CIPHERLAB CO., LTD. 2nd
Address : 7 F., No. 198 and 7F., No. 196, Sec. 3, Da Tong Rd., Shiji Dist., New Taipei City
221, Taiwan.
Date of Test : Nov. 22, 2016 ~ Jan. 13, 2017
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-4-1611066) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	
15.407(c)	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 becom 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.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	3.06

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.96
		150kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.76
		30MHz ~ 200MHz	H	4.28
		200MHz ~ 1,000MHz	V	5.08
		200MHz ~ 1,000MHz	H	4.50

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.48
		1GHz ~ 6GHz	H	4.50
		6GHz ~ 18GHz	V	4.30
		6GHz ~ 18GHz	H	4.14

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.72
		26.5 ~ 40 GHz	5.20

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

Note: unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Computer	
Brand Name	CIPHERLAB	
Test Model	9700A	
Series Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-2A: 5250-5350MHz UNII-2C: 5470-5725MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	150Mbps
Output Power	Output Power (Max.)for UNII-1	802.11a: 15.91dBm 802.11n (20M): 15.86dBm 802.11n (40M): 15.53dBm 802.11ac (80M): 14.11dBm
	Output Power (Max.)for UNII-2A	802.11a: 16.42dBm 802.11n (20M): 16.29dBm 802.11n (40M): 15.91dBm 802.11ac (80M): 14.47dBm
	Output Power (Max.)for UNII-2C	802.11a: 15.88dBm 802.11n (20M): 15.76dBm 802.11n (40M): 15.46dBm 802.11ac (80M): 14.36dBm
	Output Power (Max.)for UNII-3	802.11a: 15.46dBm 802.11n (20M): 15.12dBm 802.11n (40M): 14.99dBm 802.11ac (80M): 13.71dBm
Power Source	# 1 Supplied from battery. # 2 DC voltage supplied from External Power Supply.	
Power Rating	# 1 (1) Main Battery (BA-0083A6): 3.7V _{DC} 3600 mAh 13.32Wh (2) Backup battery (US302135H5, charged by Main Battery): 3.8V _{DC} 215 mAh # 2 I/P: 100-240V~ 50-60 Hz 0.58A O/P: 5V _{DC} 4A	
Products Covered	1 * Snap-On Cable: SNP-9700-USB 1 * Main Battery Pack: Li-ion / BA-0083A6 1 * Backup Battery: CIPHERLAB / US302135H5 1 * External Power Supply: ADAPTER TECH. / ATS024T-A050 1 * Pistol (optional): PST9700	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

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				

UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
132	5660				
136	5680				
140	5700				

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. Antenna Specification:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	CIPHERLAB	KX00000060122	PIFA Antenna	N/A	2.08	Band 1
					2.28	Band 2
					3.13	Band 3
					1.91	Band 4

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC80 Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 6	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 7	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 8	TX AC80 Mode / CH58 (UNII-2A)
Mode 9	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 10	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX N40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC80 Mode / CH106, CH122 (UNII-2C)
Mode 13	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 15	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 16	TX AC80 Mode / CH155 (UNII-3)
Mode 17	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 17	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC80 Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 6	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 7	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 8	TX AC80 Mode / CH58 (UNII-2A)
Mode 9	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 10	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX N40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC80 Mode / CH106, CH122 (UNII-2C)
Mode 13	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 15	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 16	TX AC80 Mode / CH155 (UNII-3)

Note:

(1) For radiated below 1GHz test, the 802.11a mode is found to be the worst case and recorded.

3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

UNII-1 - 1TX			
Test Software Version	ART		
Frequency (MHz)	5180	5200	5240
A Mode	15.5	15.5	15.5
Frequency (MHz)	5180	5200	5240
N20 Mode	15.5	15.5	15.5
Frequency (MHz)	5190	5230	
N40 Mode	15.5	15.5	

UNII-2A - 1TX			
Test Software Version	ART		
Frequency (MHz)	5260	5300	5320
A Mode	15.5	15.5	15.5
Frequency (MHz)	5260	5300	5320
N20 Mode	15.5	15.5	15.5
Frequency (MHz)	5270	5310	
N40 Mode	15.5	15.5	

UNII-2C - 1TX			
Test Software Version	ART		
Frequency (MHz)	5500	5580	5700
A Mode	15.5	15.5	15.5
Frequency (MHz)	5500	5580	5700
N20 Mode	15.5	15.5	15.5
Frequency (MHz)	5510	5550	5670
N40 Mode	15.5	15.5	15.5

UNII-3 - 1TX			
Test Software Version	ART		
Frequency (MHz)	5745	5785	5825
A Mode	15.5	15.5	15.5
Frequency (MHz)	5745	5785	5825
N20 Mode	15.5	15.5	15.5
Frequency (MHz)	5755	5795	
N40 Mode	15.5	15.5	

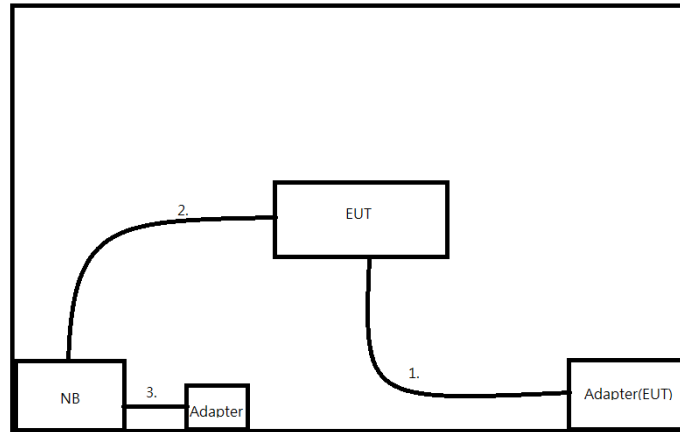
UNII-1 - 1TX			
Test Software Version	ART		
Frequency (MHz)	5210		
AC80 Mode	14		

UNII-2A - 1TX			
Test Software Version	ART		
Frequency (MHz)	5290		
AC80 Mode	14		

UNII-2C - 1TX			
Test Software Version	ART		
Frequency (MHz)	5530	5610	
AC80 Mod	14	14	

UNII-3 - 1TX			
Test Software Version	ART		
Frequency (MHz)	5775		
AC80 Mode	14		

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	NB	ACER	Z8C	N/A	N/A
B	Adapter	Acer	A13-045N2A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	YES	1.5m	Power Cable
2	YES	YES	1.8m	USB Cable
3	NO	YES	1.5m	Power Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

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.

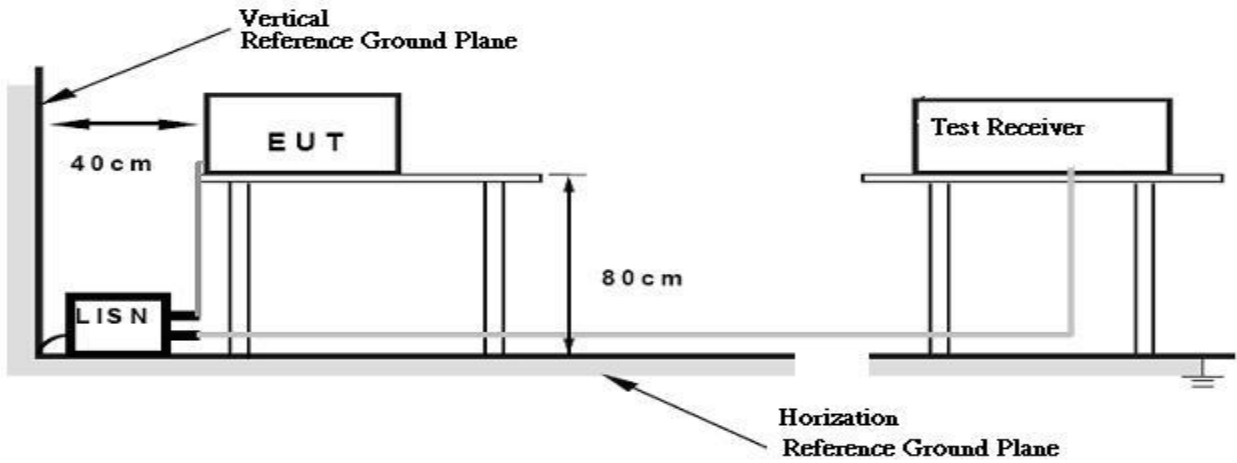
4.1.2 TEST PROCEDURE

- 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 equipments 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.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150kHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

Frequencies (MHz)	Field Strength (micровolts/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

Frequencies (MHz)	EIRP Limit (dBm)	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 FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.2.2 TEST PROCEDURE

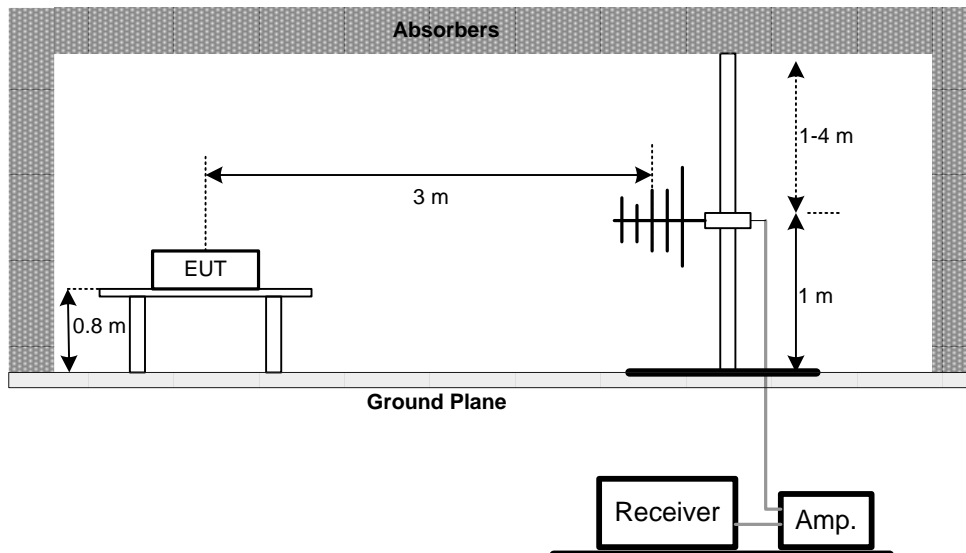
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

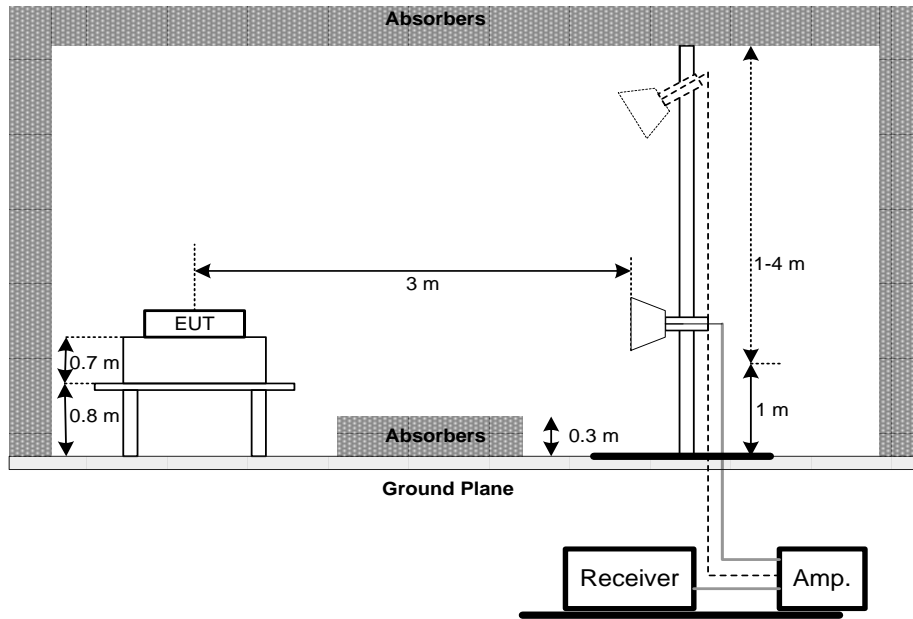
4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1GHz

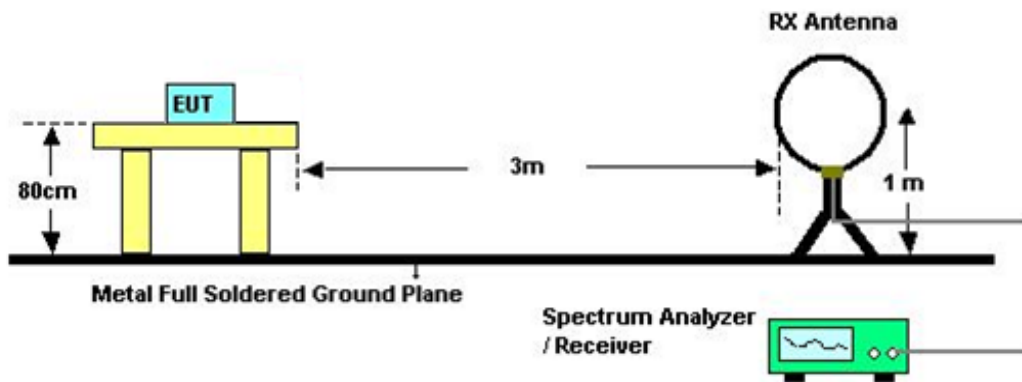


(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

Band edge



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHz)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5150-5250	PASS
	26 dB Bandwidth	5250-5350	PASS
	26 dB Bandwidth	5470-5725	PASS
	Minimum 500kHz 6dB Bandwidth	5725-5850	PASS

5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

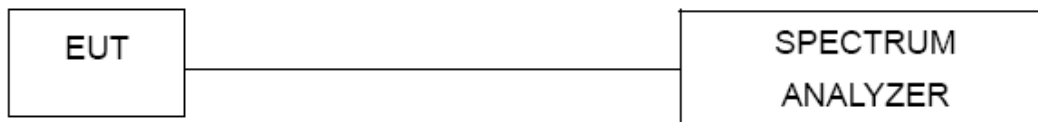
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz(Bandwidth 20MHz) 1MHz(Bandwidth 40MHz and 80MHz)
VBW	1MHz(Bandwidth 20MHz) 3MHz(Bandwidth 40MHz and 80MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output Power	Fixed:1 Watt (30dBm) Mobile and portable: 250mW (24dBm)	5150-5250	PASS
	250mW (24dBm)	5250-5350	PASS
	250mW (24dBm)	5470-5725	PASS
	1 Watt (30dBm)	5725-5850	PASS

Note: The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b.

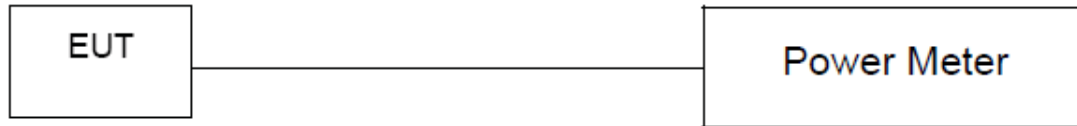
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

- c. Test was performed in accordance with method of KDB 789033 D02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. POWER SPECTRAL DENSITY TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other than Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250	PASS
	11dBm/MHz	5250-5350	PASS
	11dBm/MHz	5470-5725	PASS
	30dBm/500kHz	5725-5850	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

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

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01r02, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

7.1.1 DEVIATION FROM STANDARD

No deviation.

7.1.2 TEST SETUP



7.1.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.4 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

7.1.5 TEST RESULTS

Please refer to the Attachment H.

8. FREQUENCY STABILITY MEASUREMENT

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specified in the user's manual	5150-5250	PASS
		5250-5350	PASS
		5470-5725	PASS
		5725-5850	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

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

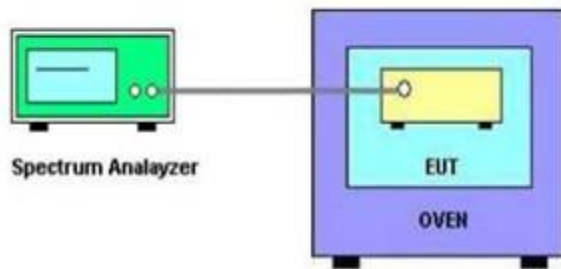
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is -20°C~50°C.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment I.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Mar.01,2017
2	Preamplifier	EMCI	EMC02325	980217	Dec.29,2017
3	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan.04,2018
4	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan.04,2018
5	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan.04,2018
6	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan.09,2018
7	Signal Analyzer	Agilent	N9010A	MY52220990	Feb.23,2017
8	Loop Ant	EMCO	6502	42960	Nov.24,2017
9	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Mar.01,2017
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan.17,2017
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan.17,2017

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 17, 2017
2	Power Sensor	Anritsu	MA2411B	1126001	Aug. 17, 2017

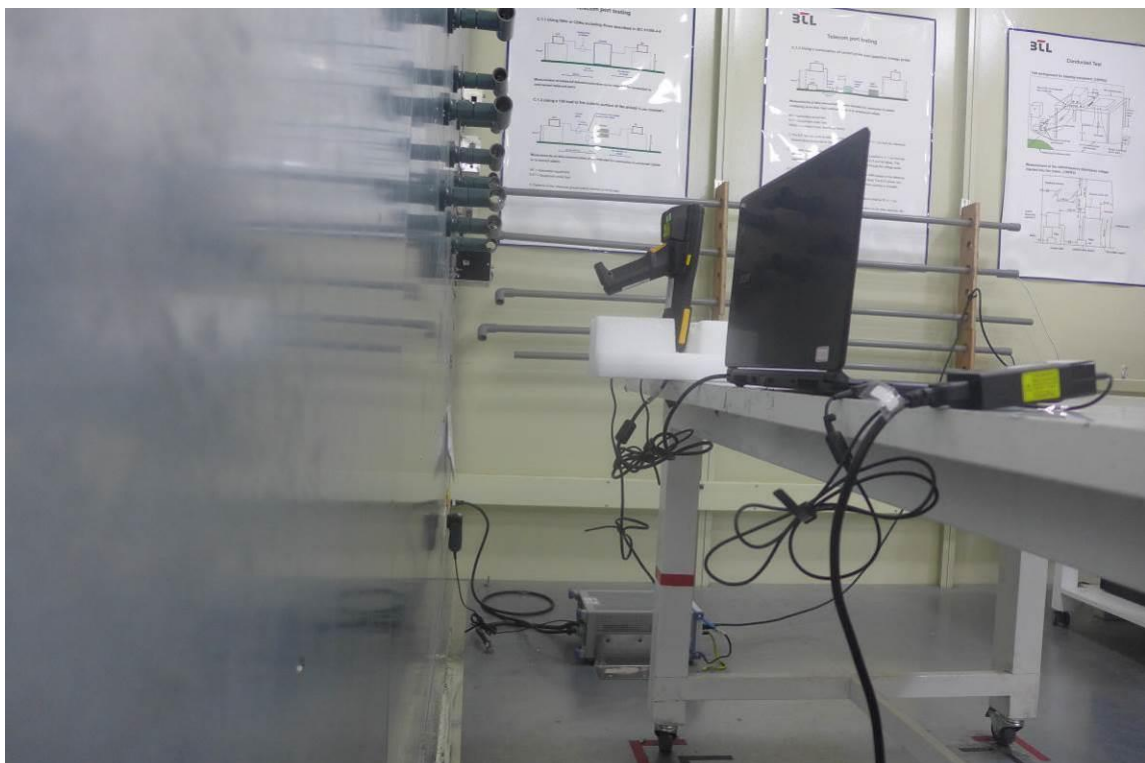
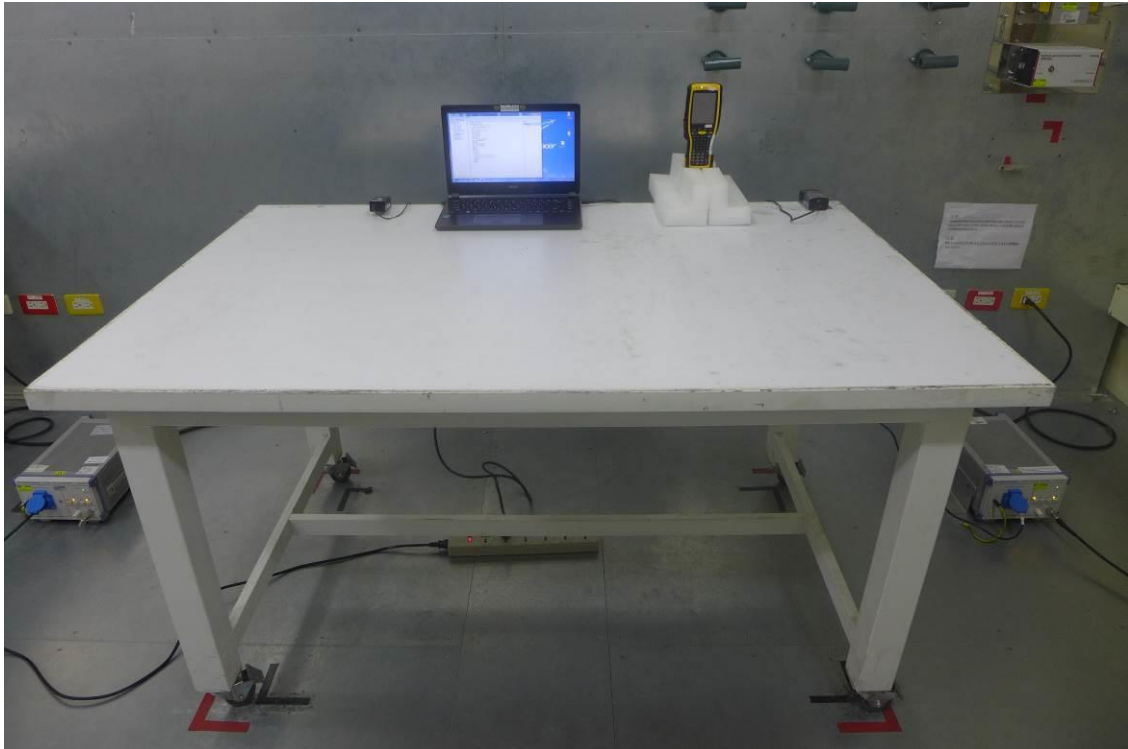
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017
2	Thermal Chamber	HOLINK	CHOLINK/H-T-1F-D	BA03101701	Jun. 07, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 All calibration period of equipment list is one year.

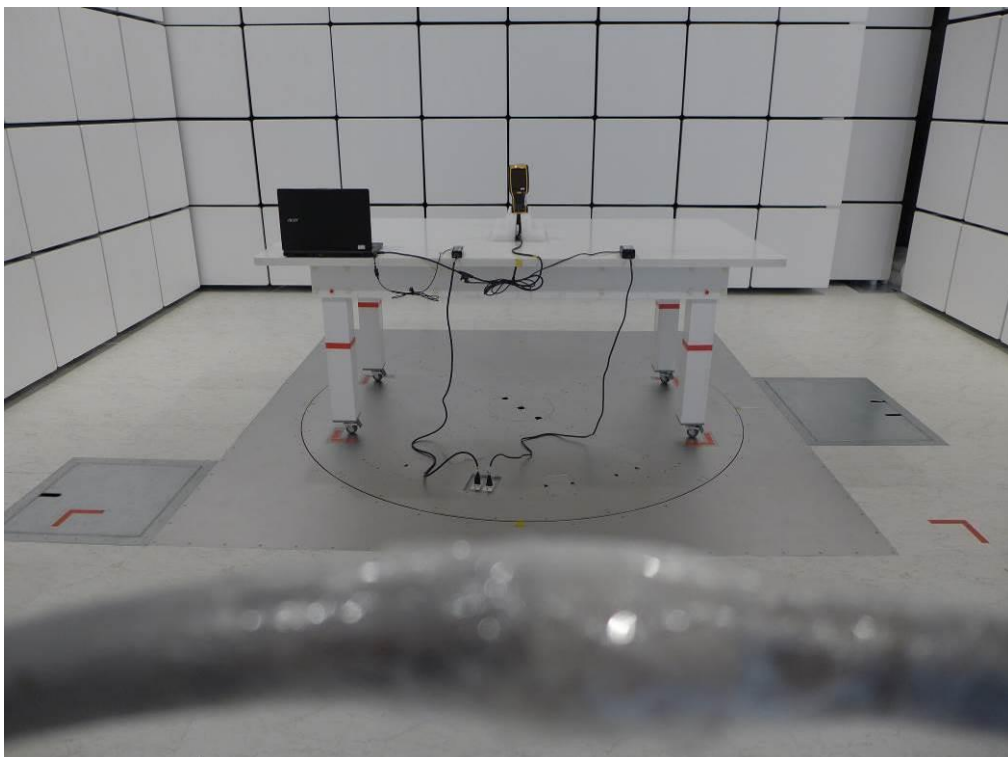
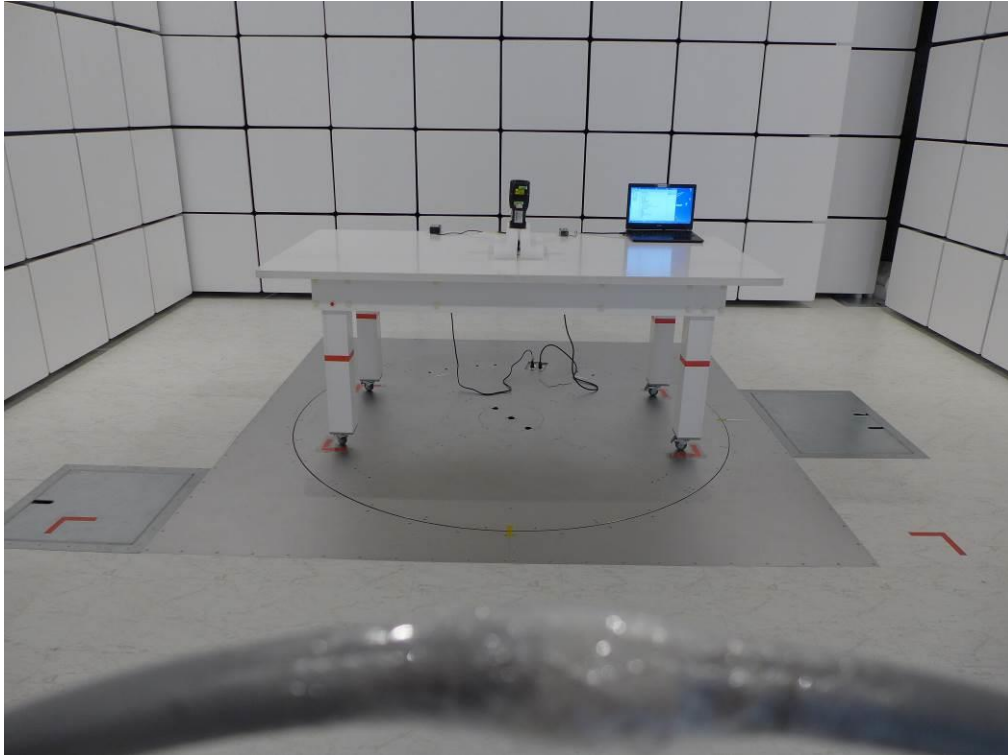
10. EUT TEST PHOTOS

Conducted Measurement Photos



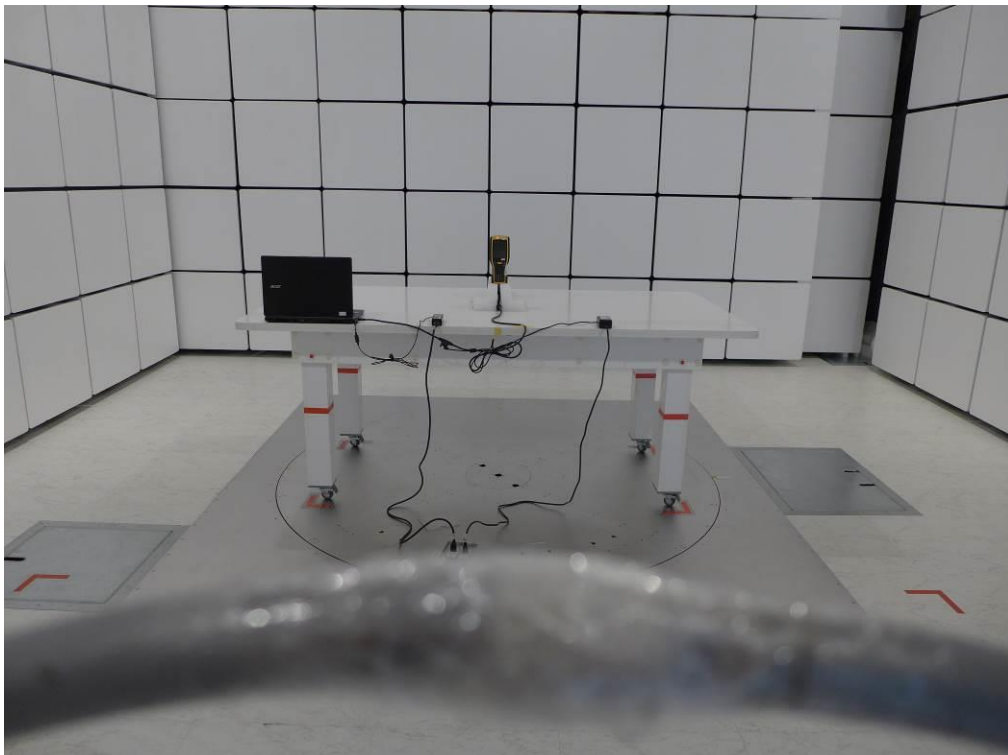
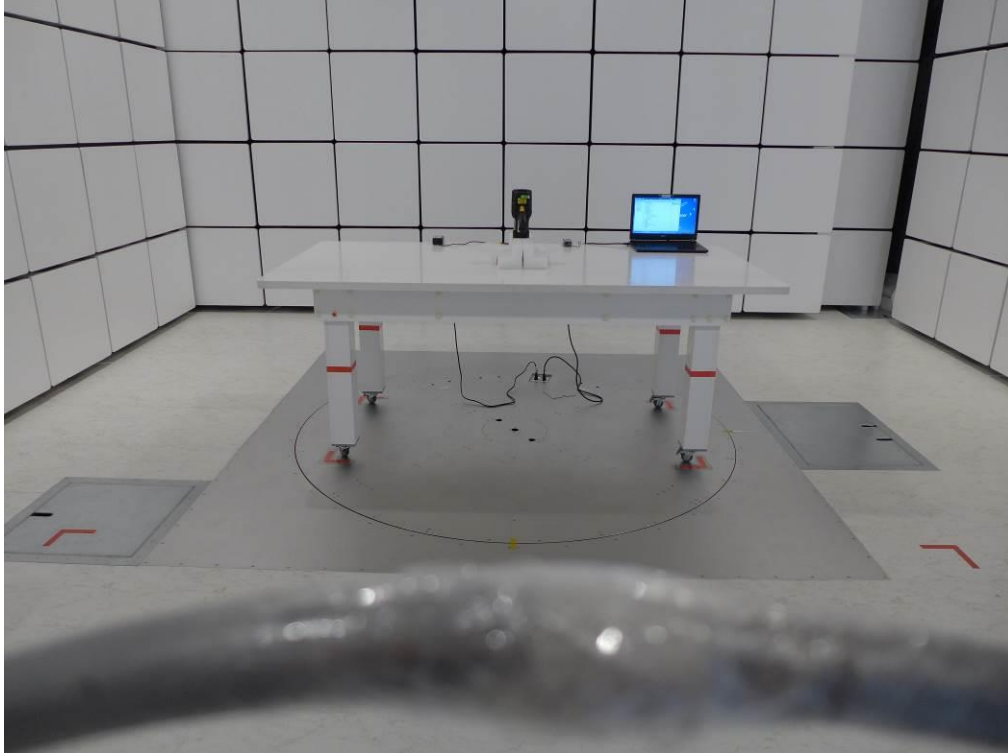
Radiated Measurement Photos

9KHz to 30MHz
Without Pistol



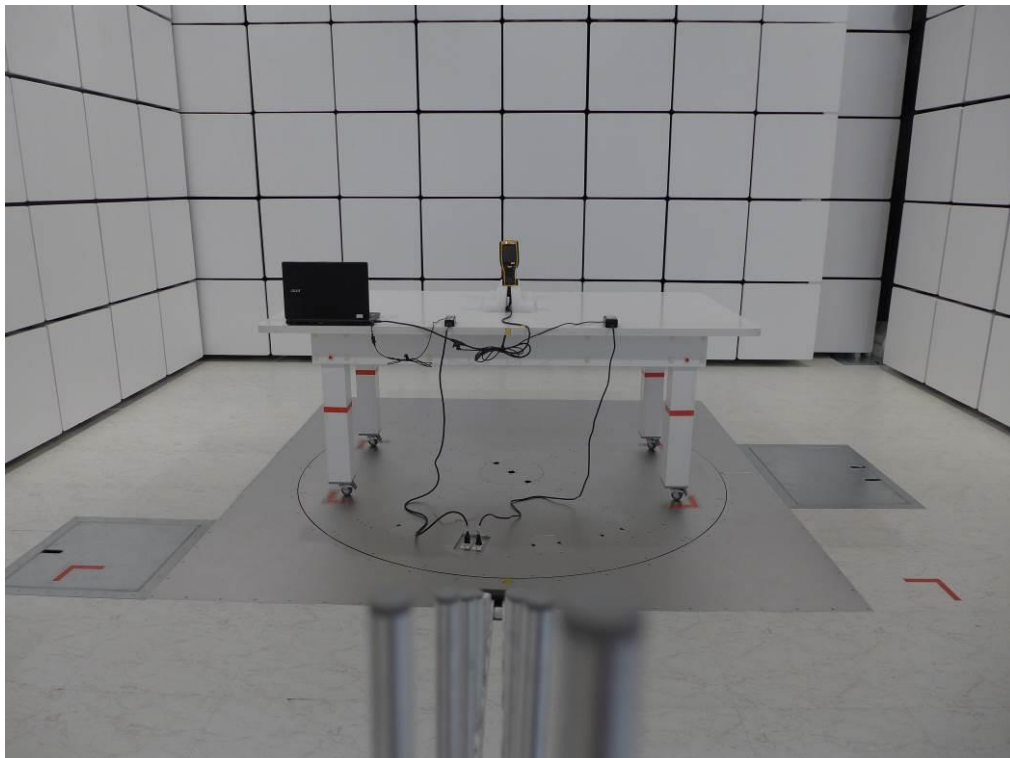
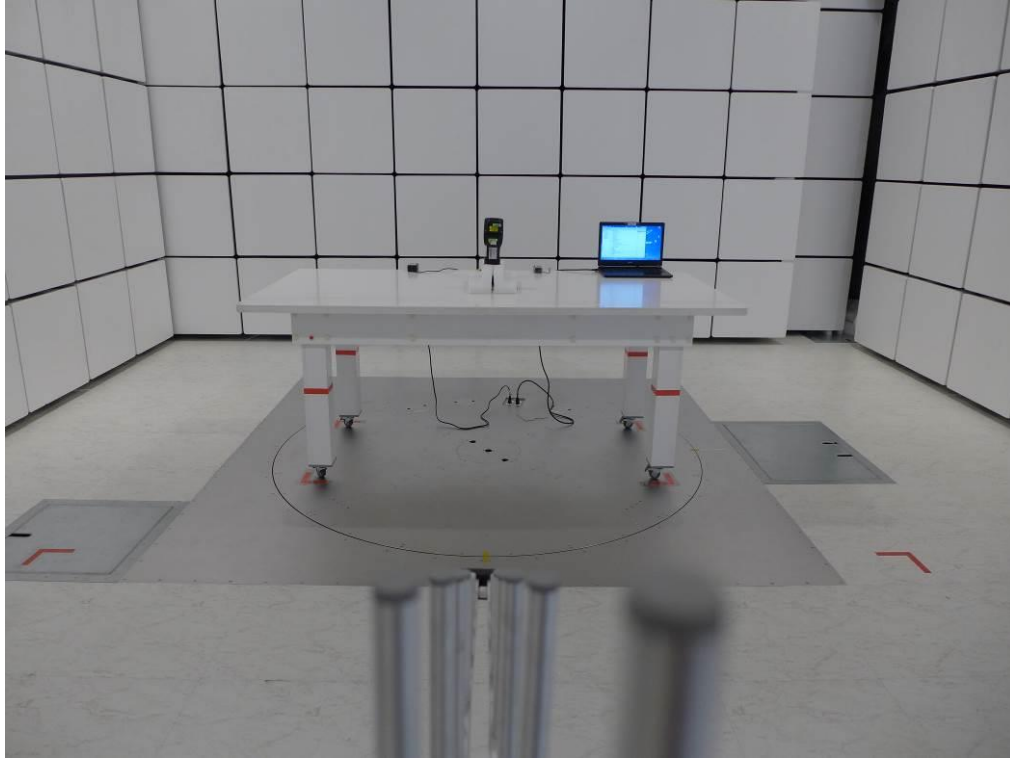
Radiated Measurement Photos

**9KHz to 30MHz
With Pistol**



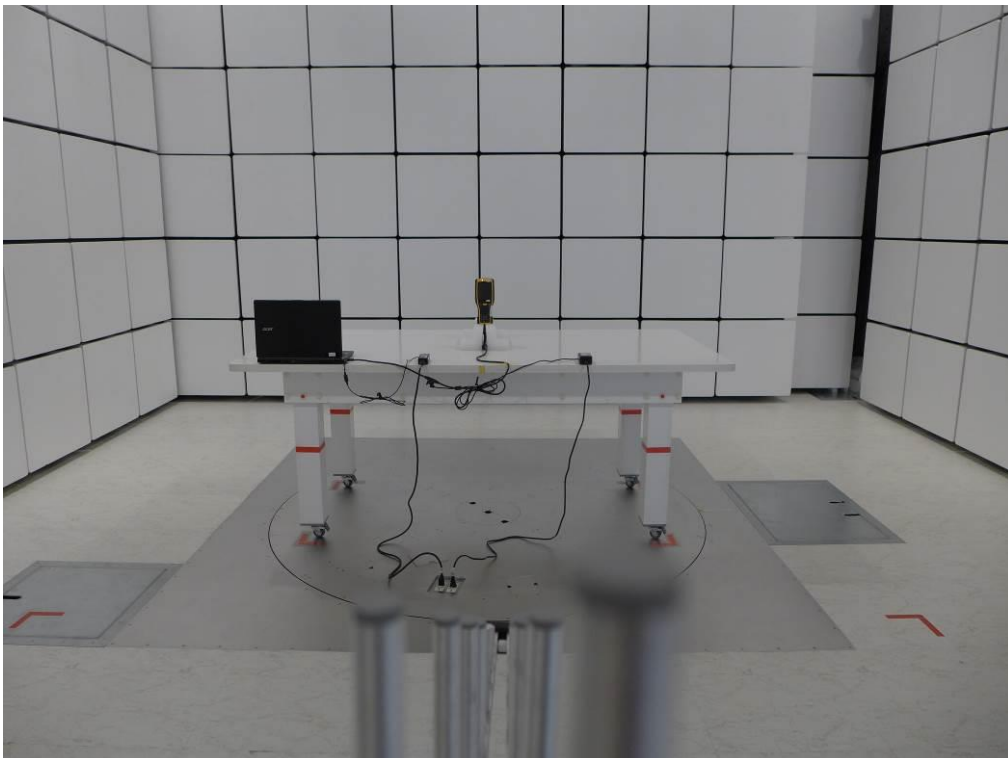
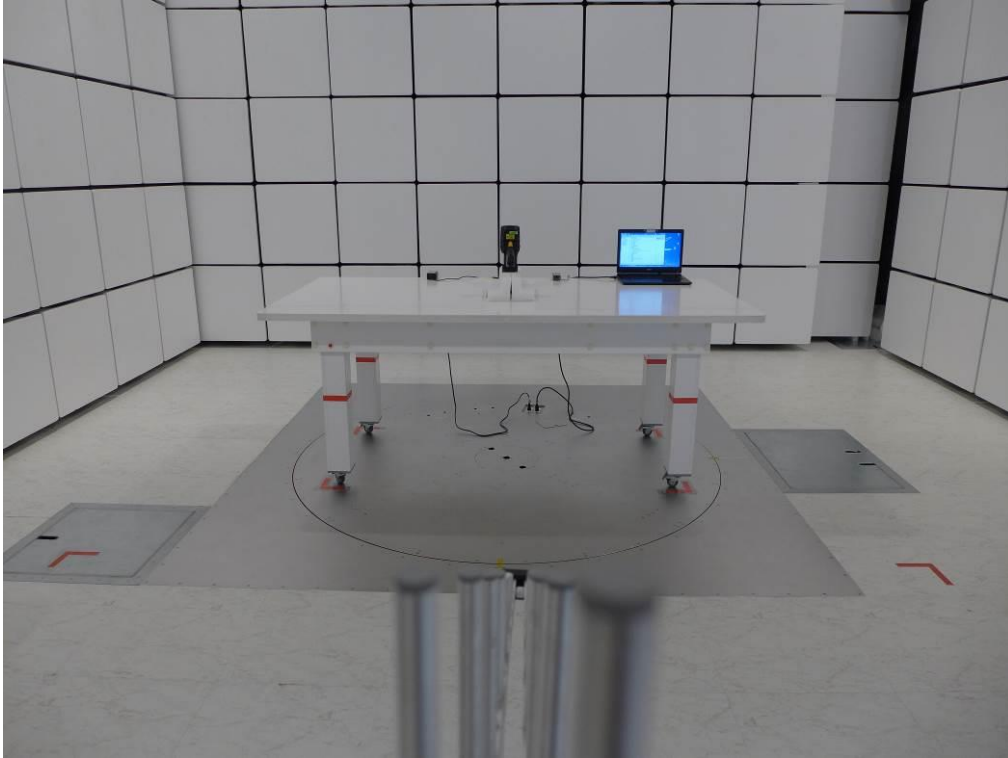
Radiated Measurement Photos

Below 1GHz
Without Pistol



Radiated Measurement Photos

**Below 1GHz
With Pistol**



Radiated Measurement Photos

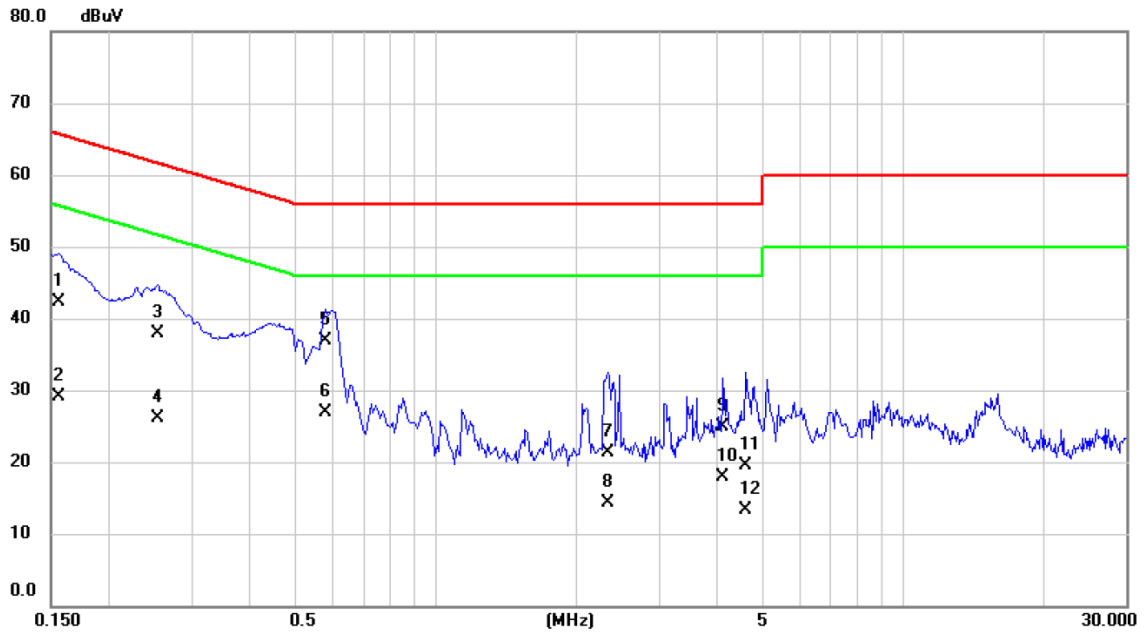
Above 1GHz
Without Pistol



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: UNII-1/TX Mode

Line

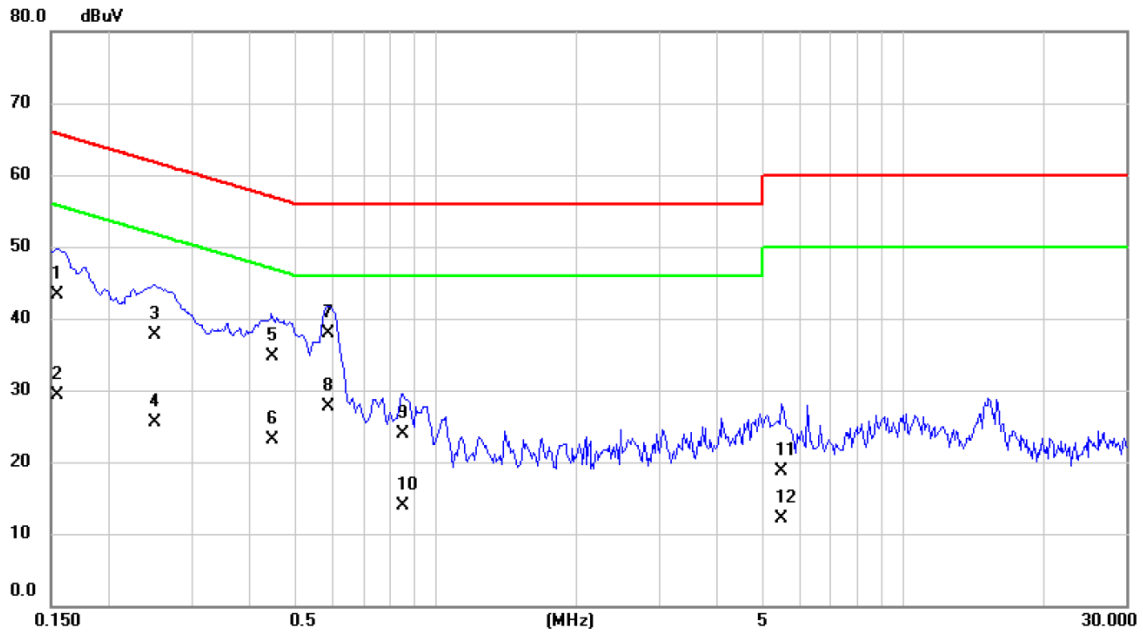


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1556	32.70	9.66	42.36	65.70	-23.34	QP	
2		0.1556	19.40	9.66	29.06	55.70	-26.64	AVG	
3		0.2536	28.30	9.66	37.96	61.64	-23.68	QP	
4		0.2536	16.40	9.66	26.06	51.64	-25.58	AVG	
5	*	0.5810	27.30	9.67	36.97	56.00	-19.03	QP	
6		0.5810	17.20	9.67	26.87	46.00	-19.13	AVG	
7		2.3270	11.50	9.74	21.24	56.00	-34.76	QP	
8		2.3270	4.50	9.74	14.24	46.00	-31.76	AVG	
9		4.1180	15.20	9.79	24.99	56.00	-31.01	QP	
10		4.1180	8.10	9.79	17.89	46.00	-28.11	AVG	
11		4.6130	9.80	9.80	19.60	56.00	-36.40	QP	
12		4.6130	3.60	9.80	13.40	46.00	-32.60	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-1/TX Mode

Neutral

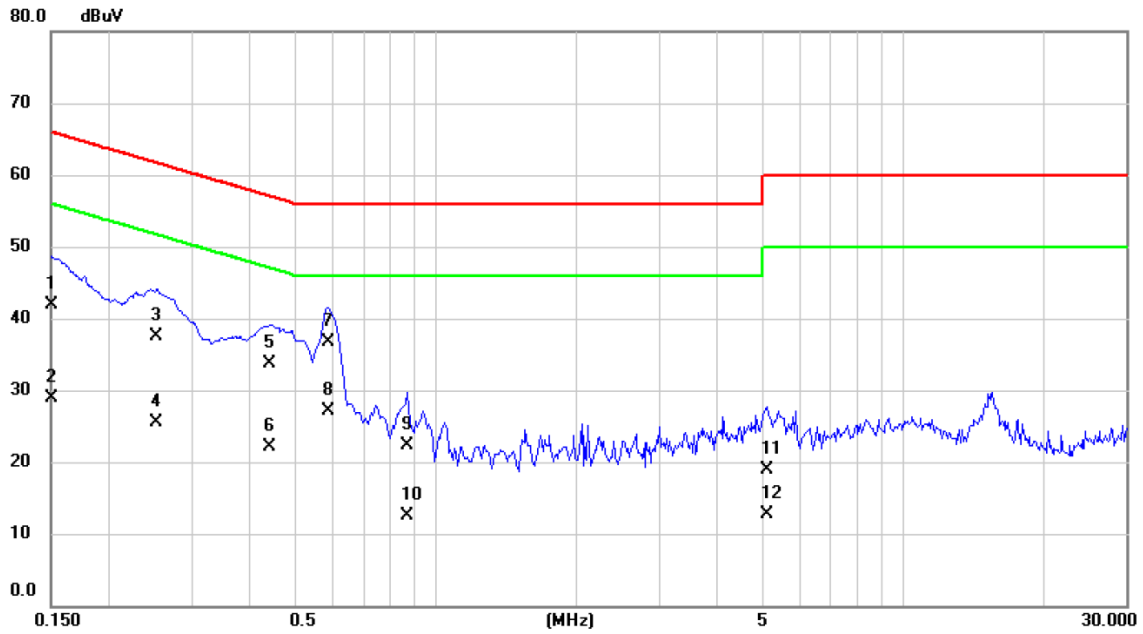


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1550	33.70	9.67	43.37	65.73	-22.36	QP	
2		0.1550	19.70	9.67	29.37	55.73	-26.36	AVG	
3		0.2501	28.00	9.66	37.66	61.75	-24.09	QP	
4		0.2501	15.90	9.66	25.56	51.75	-26.19	AVG	
5		0.4454	25.00	9.67	34.67	56.96	-22.29	QP	
6		0.4454	13.50	9.67	23.17	46.96	-23.79	AVG	
7	*	0.5900	28.20	9.67	37.87	56.00	-18.13	QP	
8		0.5900	18.10	9.67	27.77	46.00	-18.23	AVG	
9		0.8510	14.20	9.68	23.88	56.00	-32.12	QP	
10		0.8510	4.30	9.68	13.98	46.00	-32.02	AVG	
11		5.5000	8.90	9.82	18.72	60.00	-41.28	QP	
12		5.5000	2.30	9.82	12.12	50.00	-37.88	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-2A/TX Mode

Line

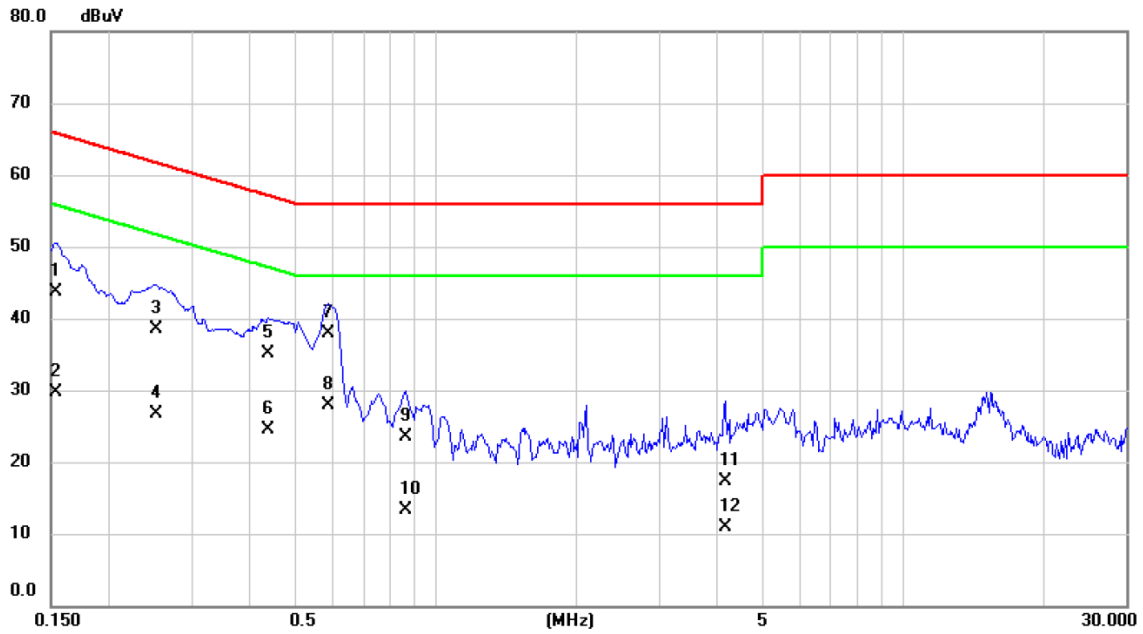


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.30	9.66	41.96	66.00	-24.04	QP	
2		0.1500	19.30	9.66	28.96	56.00	-27.04	AVG	
3		0.2530	27.90	9.66	37.56	61.66	-24.10	QP	
4		0.2530	15.80	9.66	25.46	51.66	-26.20	AVG	
5		0.4391	24.00	9.67	33.67	57.08	-23.41	QP	
6		0.4391	12.50	9.67	22.17	47.08	-24.91	AVG	
7		0.5900	27.10	9.67	36.77	56.00	-19.23	QP	
8	*	0.5900	17.50	9.67	27.17	46.00	-18.83	AVG	
9		0.8690	12.60	9.67	22.27	56.00	-33.73	QP	
10		0.8690	2.80	9.67	12.47	46.00	-33.53	AVG	
11		5.1000	9.10	9.82	18.92	60.00	-41.08	QP	
12		5.1000	2.80	9.82	12.62	50.00	-37.38	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-2A/TX Mode

Neutral

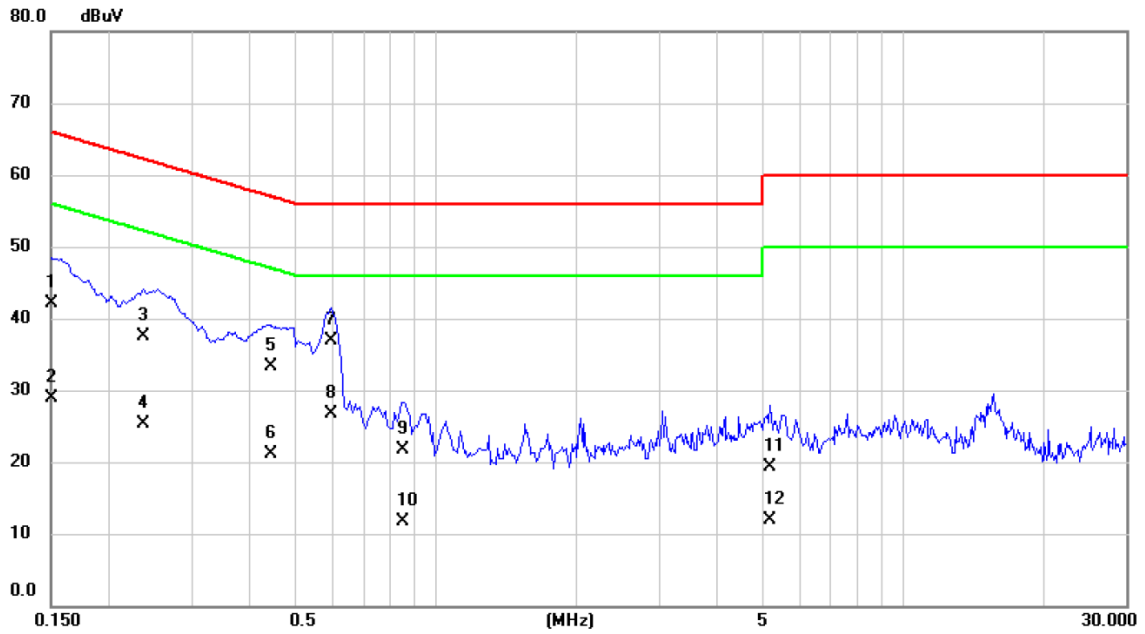


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1535	34.10	9.67	43.77	65.81	-22.04	QP	
2		0.1535	20.10	9.67	29.77	55.81	-26.04	AVG	
3		0.2515	28.90	9.66	38.56	61.71	-23.15	QP	
4		0.2515	17.00	9.66	26.66	51.71	-25.05	AVG	
5		0.4377	25.50	9.67	35.17	57.11	-21.94	QP	
6		0.4377	14.80	9.67	24.47	47.11	-22.64	AVG	
7	*	0.5900	28.30	9.67	37.97	56.00	-18.03	QP	
8		0.5900	18.30	9.67	27.97	46.00	-18.03	AVG	
9		0.8600	13.80	9.68	23.48	56.00	-32.52	QP	
10		0.8600	3.70	9.68	13.38	46.00	-32.62	AVG	
11		4.1540	7.50	9.79	17.29	56.00	-38.71	QP	
12		4.1540	1.20	9.79	10.99	46.00	-35.01	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-2C/TX Mode

Line

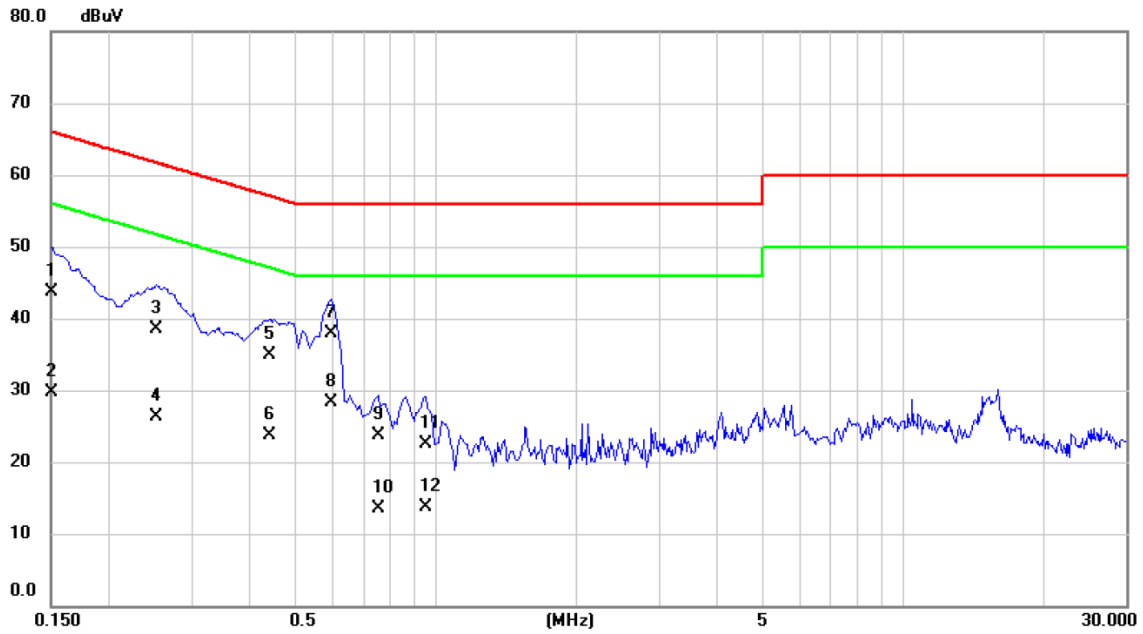


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.50	9.66	42.16	66.00	-23.84	QP	
2		0.1500	19.30	9.66	28.96	56.00	-27.04	AVG	
3		0.2368	27.80	9.66	37.46	62.21	-24.75	QP	
4		0.2368	15.70	9.66	25.36	52.21	-26.85	AVG	
5		0.4426	23.70	9.67	33.37	57.01	-23.64	QP	
6		0.4426	11.50	9.67	21.17	47.01	-25.84	AVG	
7	*	0.5990	27.20	9.67	36.87	56.00	-19.13	QP	
8		0.5990	17.00	9.67	26.67	46.00	-19.33	AVG	
9		0.8510	12.00	9.67	21.67	56.00	-34.33	QP	
10		0.8510	2.10	9.67	11.77	46.00	-34.23	AVG	
11		5.2000	9.40	9.82	19.22	60.00	-40.78	QP	
12		5.2000	2.10	9.82	11.92	50.00	-38.08	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-2C/TX Mode

Neutral

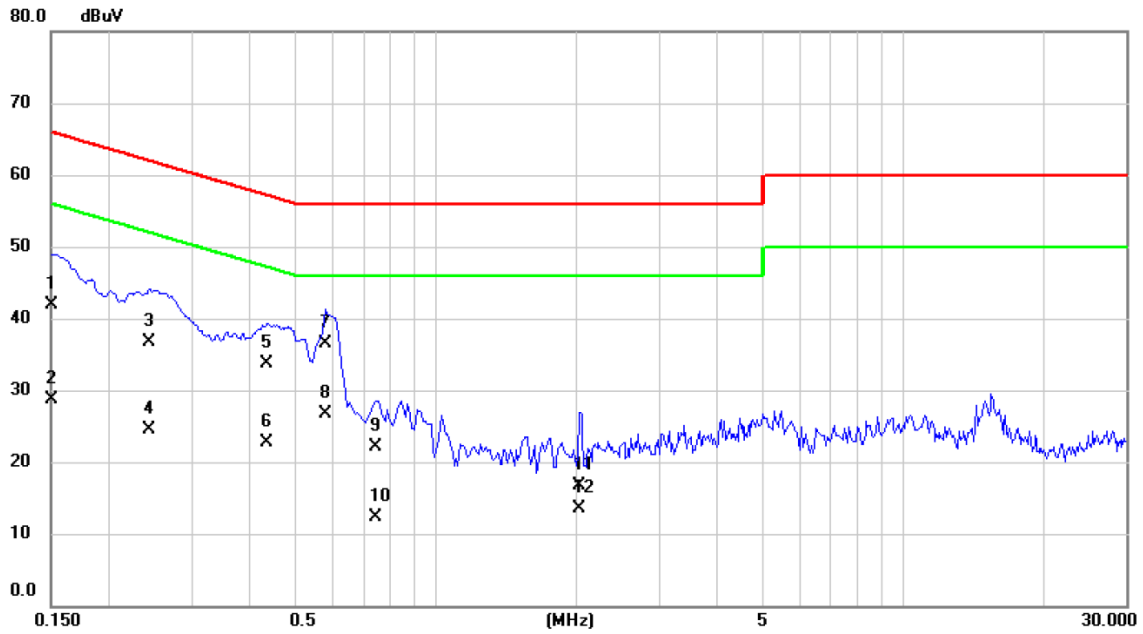


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.10	9.67	43.77	66.00	-22.23	QP	
2		0.1500	20.10	9.67	29.77	56.00	-26.23	AVG	
3		0.2522	28.80	9.66	38.46	61.68	-23.22	QP	
4		0.2522	16.60	9.66	26.26	51.68	-25.42	AVG	
5		0.4420	25.30	9.67	34.97	57.02	-22.05	QP	
6		0.4420	14.10	9.67	23.77	47.02	-23.25	AVG	
7		0.5990	28.20	9.67	37.87	56.00	-18.13	QP	
8	*	0.5990	18.70	9.67	28.37	46.00	-17.63	AVG	
9		0.7520	14.00	9.68	23.68	56.00	-32.32	QP	
10		0.7520	3.90	9.68	13.58	46.00	-32.42	AVG	
11		0.9500	12.80	9.68	22.48	56.00	-33.52	QP	
12		0.9500	4.10	9.68	13.78	46.00	-32.22	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-3/TX Mode

Line

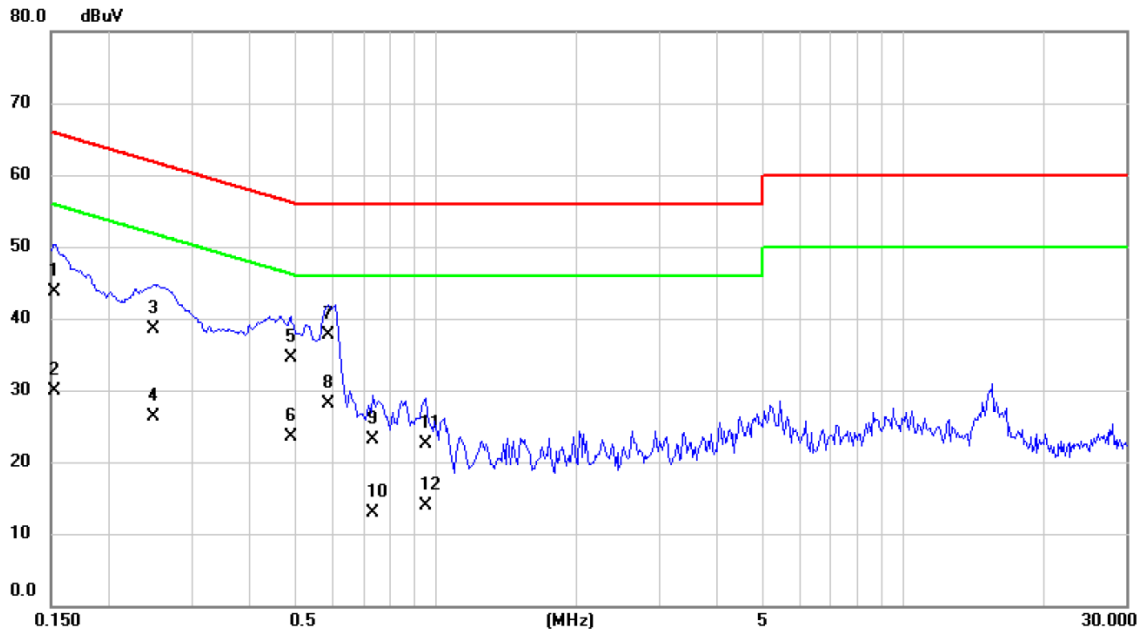


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.30	9.66	41.96	66.00	-24.04	QP	
2		0.1500	19.10	9.66	28.76	56.00	-27.24	AVG	
3		0.2438	27.10	9.66	36.76	61.97	-25.21	QP	
4		0.2438	14.80	9.66	24.46	51.97	-27.51	AVG	
5		0.4350	24.10	9.67	33.77	57.16	-23.39	QP	
6		0.4350	13.00	9.67	22.67	47.16	-24.49	AVG	
7		0.5810	26.90	9.67	36.57	56.00	-19.43	QP	
8	*	0.5810	17.00	9.67	26.67	46.00	-19.33	AVG	
9		0.7430	12.50	9.67	22.17	56.00	-33.83	QP	
10		0.7430	2.70	9.67	12.37	46.00	-33.63	AVG	
11		2.0300	6.90	9.73	16.63	56.00	-39.37	QP	
12		2.0300	3.70	9.73	13.43	46.00	-32.57	AVG	

Note : The test result has included the cable loss.

Test Mode: UNII-3/TX Mode

Neutral



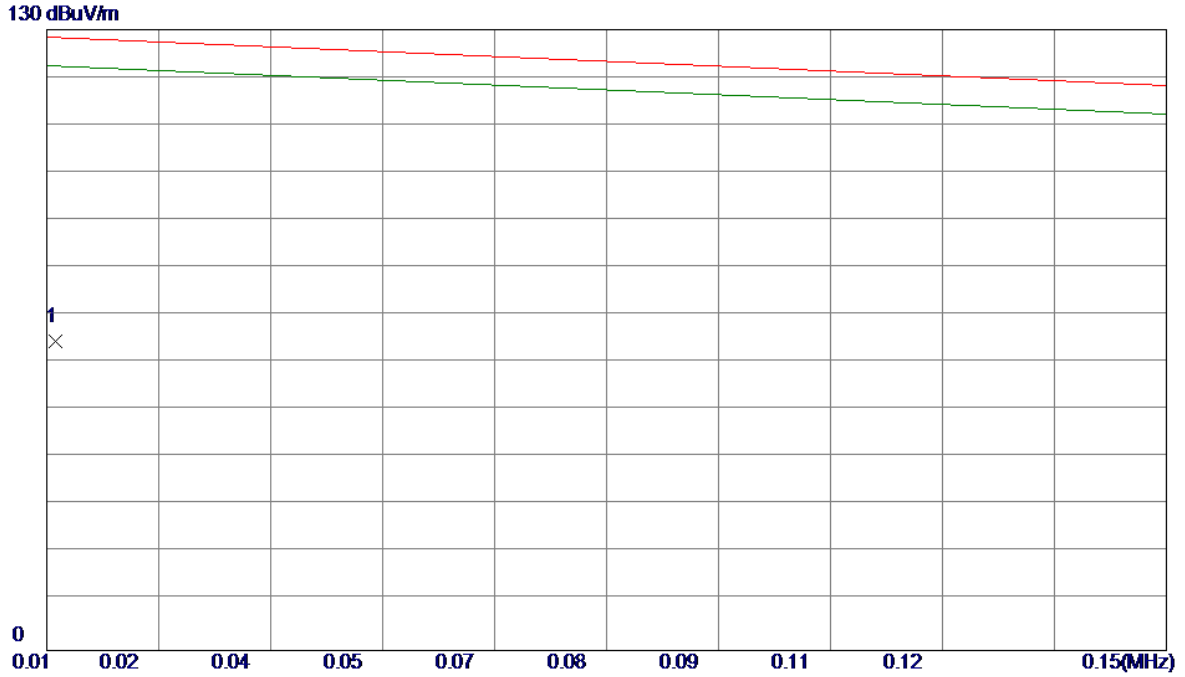
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1528	34.00	9.67	43.67	65.85	-22.18	QP	
2		0.1528	20.20	9.67	29.87	55.85	-25.98	AVG	
3		0.2487	28.80	9.66	38.46	61.80	-23.34	QP	
4		0.2487	16.70	9.66	26.36	51.80	-25.44	AVG	
5		0.4888	24.90	9.67	34.57	56.19	-21.62	QP	
6		0.4888	13.80	9.67	23.47	46.19	-22.72	AVG	
7		0.5900	28.00	9.67	37.67	56.00	-18.33	QP	
8	*	0.5900	18.50	9.67	28.17	46.00	-17.83	AVG	
9		0.7340	13.40	9.68	23.08	56.00	-32.92	QP	
10		0.7340	3.20	9.68	12.88	46.00	-33.12	AVG	
11		0.9500	12.90	9.68	22.58	56.00	-33.42	QP	
12		0.9500	4.20	9.68	13.88	46.00	-32.12	AVG	

Note : The test result has included the cable loss.

ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: UNII-1/TX Mode_Without Pistol

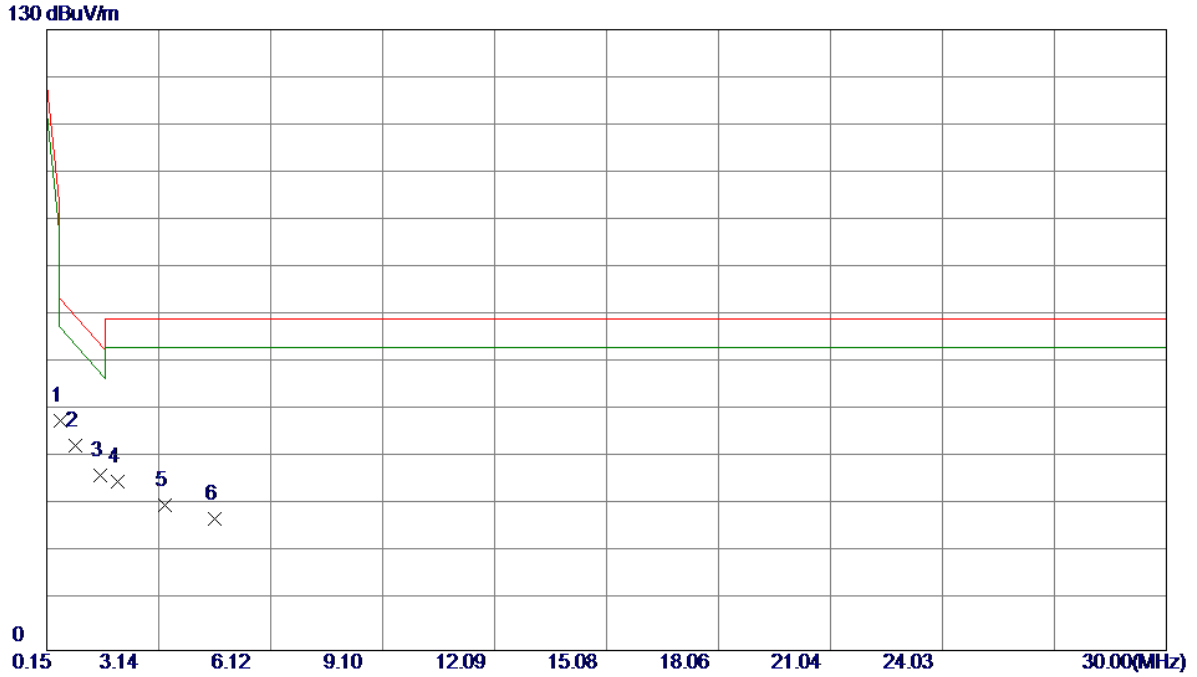
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0101	44.29	20.47	64.76	128.43	-63.67	Peak	

Test Mode: UNII-1/TX Mode_Without Pistol

Ant 0°

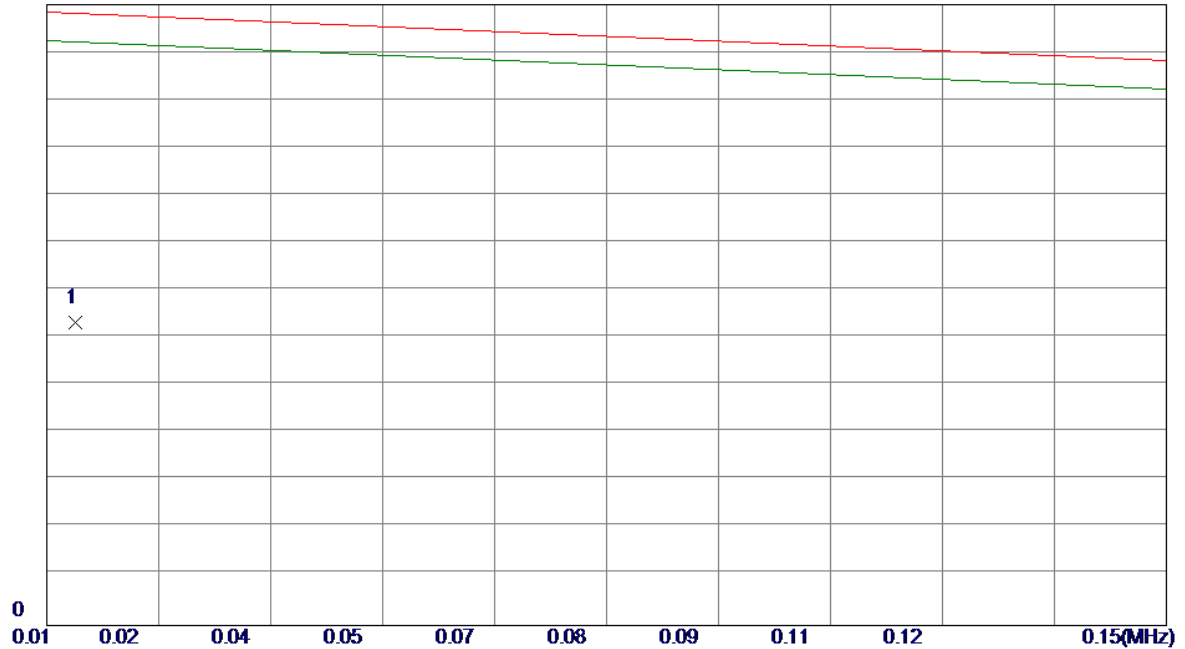


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5082	36.28	11.80	48.08	73.64	-25.56	Peak	
2	0.9261	30.88	11.97	42.85	69.91	-27.06	Peak	
3	1.5828	24.87	11.74	36.61	64.06	-27.45	Peak	
4	2.0305	23.78	11.54	35.32	69.54	-34.22	Peak	
5	3.3141	19.33	11.15	30.48	69.54	-39.06	Peak	
6	4.6275	16.30	11.34	27.64	69.54	-41.90	Peak	

Test Mode: UNII-1/TX Mode_Without Pistol

Ant 90°

130 dBuV/m

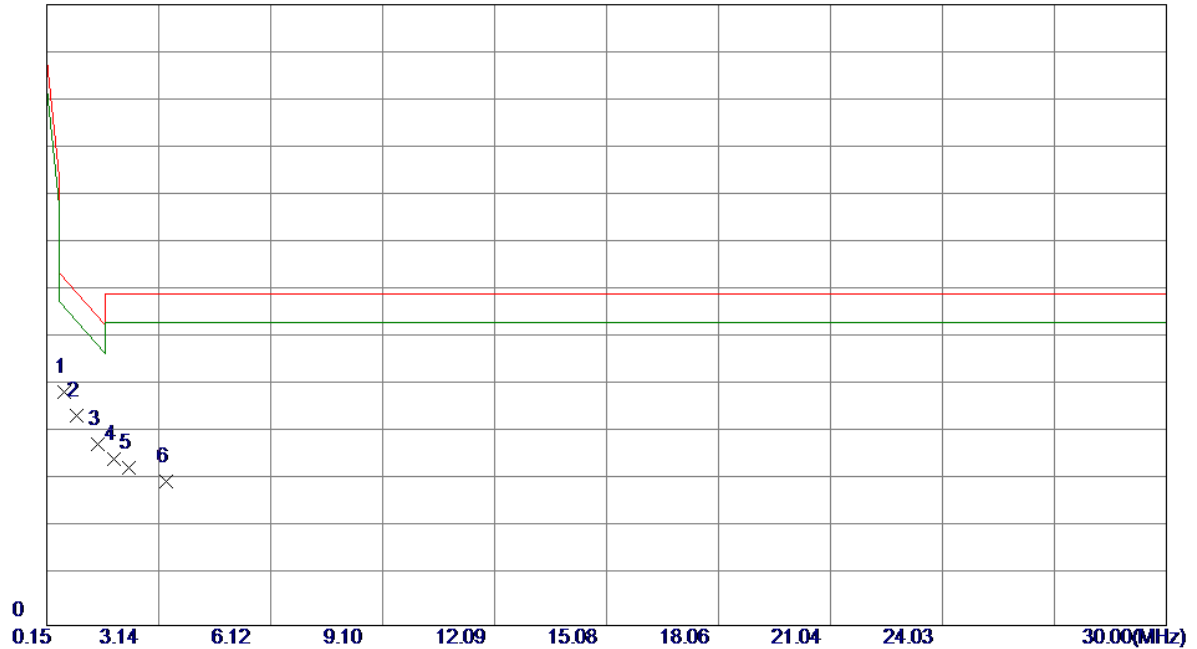


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0126	43.78	19.78	63.56	128.25	-64.69	Peak	

Test Mode: UNII-1/TX Mode_Without Pistol

Ant 90°

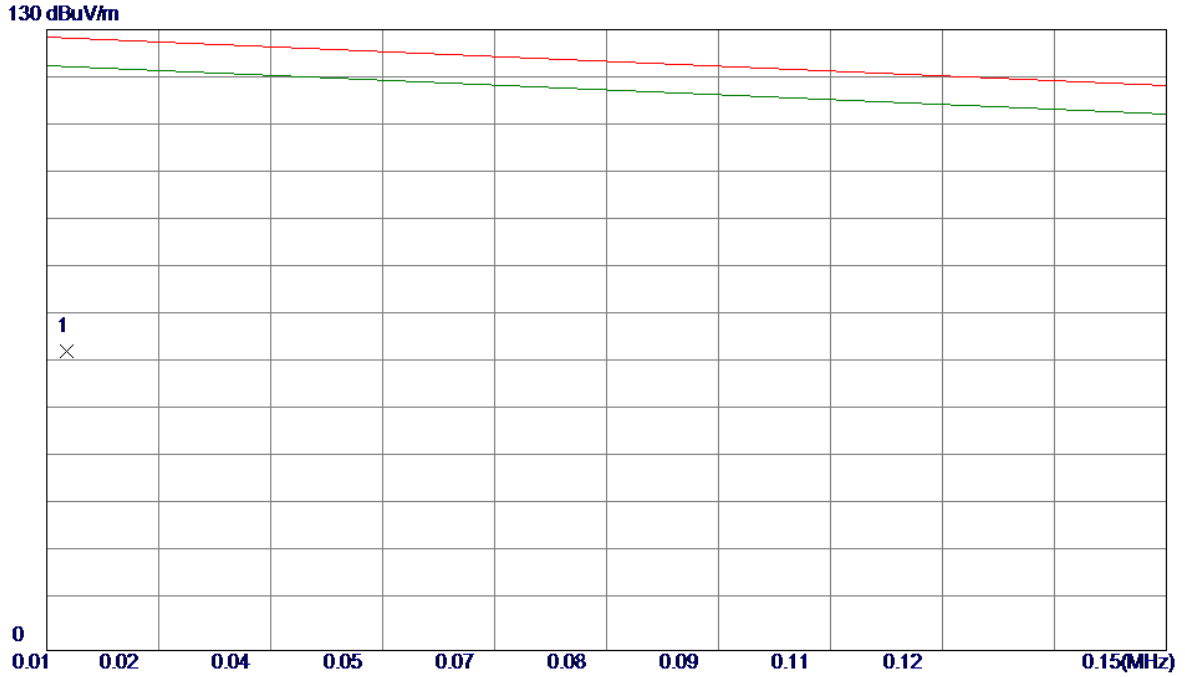
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5978	37.00	11.84	48.84	72.84	-24.00	Peak	
2	0.9560	31.86	11.98	43.84	69.65	-25.81	Peak	
3	1.5231	26.24	11.76	38.00	64.59	-26.59	Peak	
4	1.9410	23.30	11.58	34.88	69.54	-34.66	Peak	
5	2.3291	21.60	11.40	33.00	69.54	-36.54	Peak	
6	3.3440	19.03	11.15	30.18	69.54	-39.36	Peak	

Test Mode: UNII-2A/TX Mode_Without Pistol

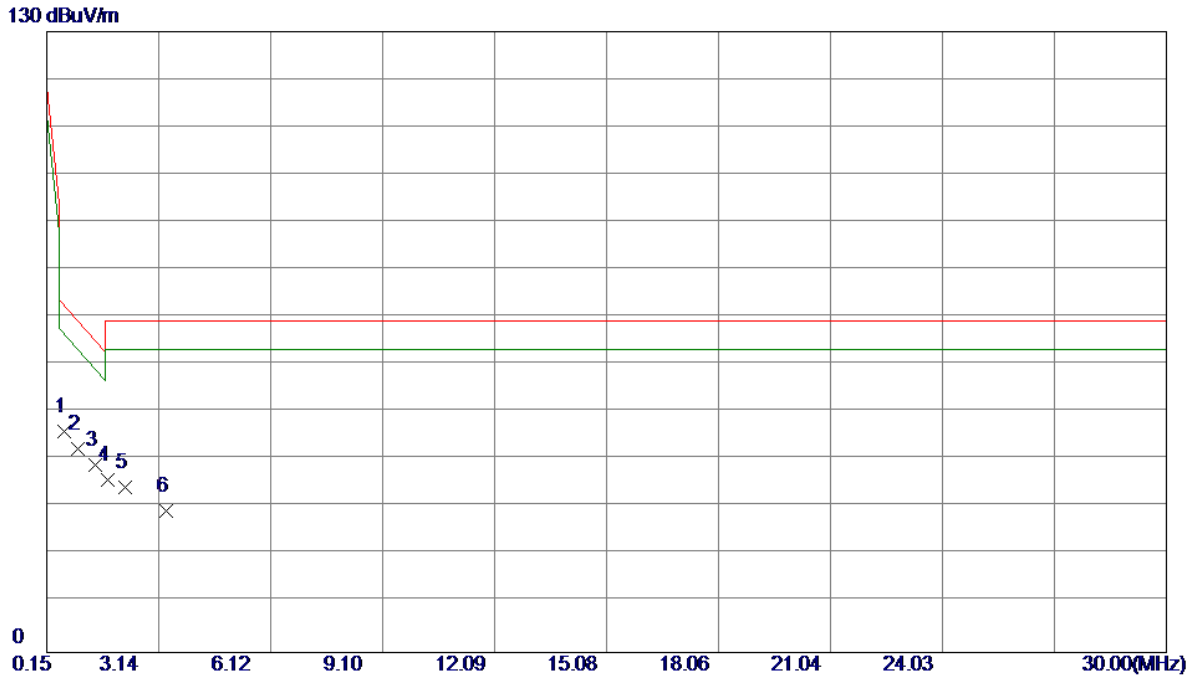
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0115	42.61	20.09	62.70	128.33	-65.63	Peak	

Test Mode: UNII-2A/TX Mode_Without Pistol

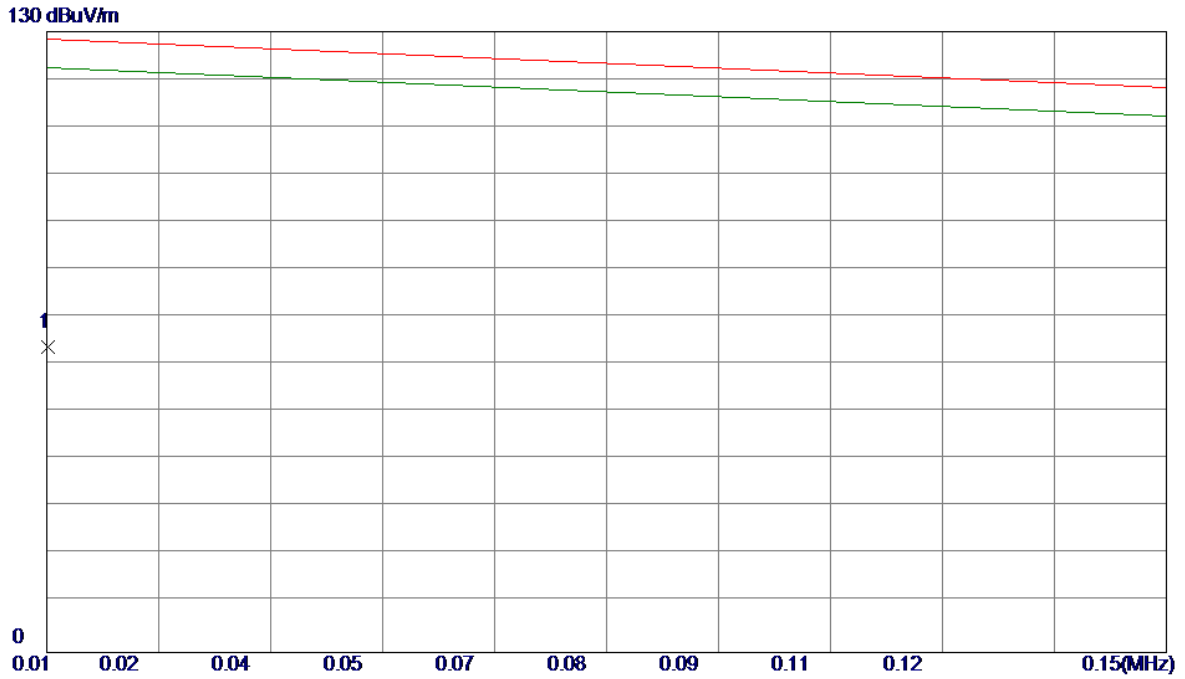
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.6276	34.39	11.85	46.24	72.57	-26.33	Peak	
2	0.9858	30.61	11.99	42.60	69.38	-26.78	Peak	
3 *	1.4336	27.34	11.80	39.14	65.39	-26.25	Peak	
4	1.7620	24.55	11.66	36.21	69.54	-33.33	Peak	
5	2.2395	23.20	11.44	34.64	69.54	-34.90	Peak	
6	3.3440	18.58	11.15	29.73	69.54	-39.81	Peak	

Test Mode: UNII-2A/TX Mode_Without Pistol

Ant 90°

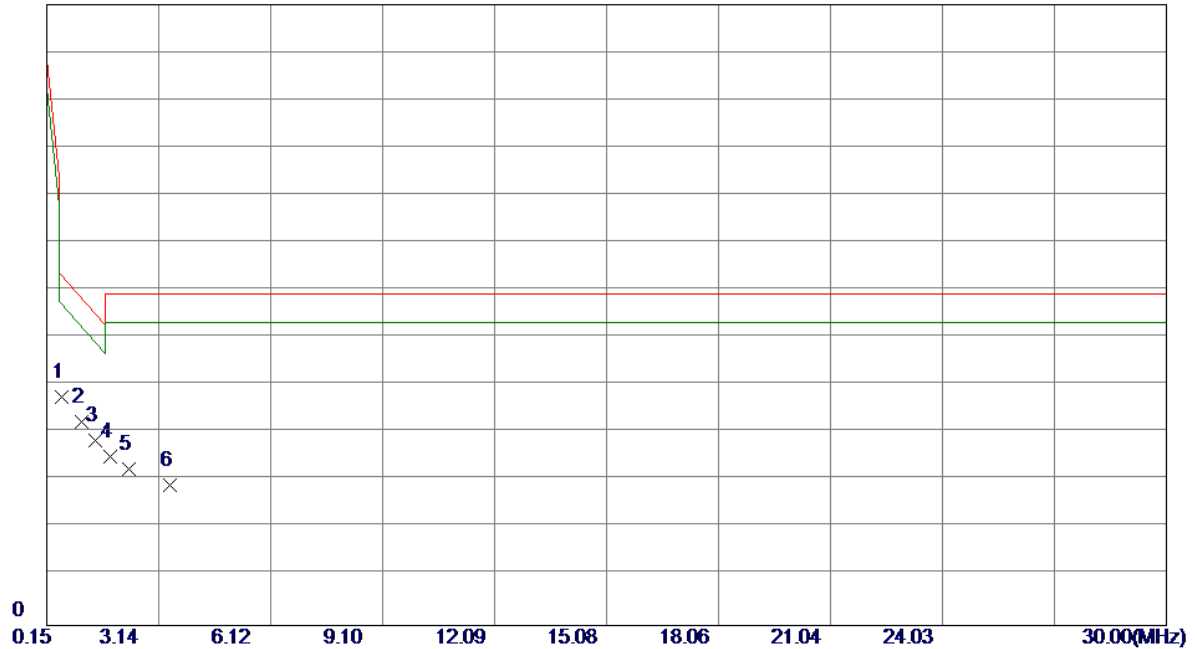


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0091	43.39	20.50	63.89	128.51	-64.62	Peak	

Test Mode: UNII-2A/TX Mode_Without Pistol

Ant 90°

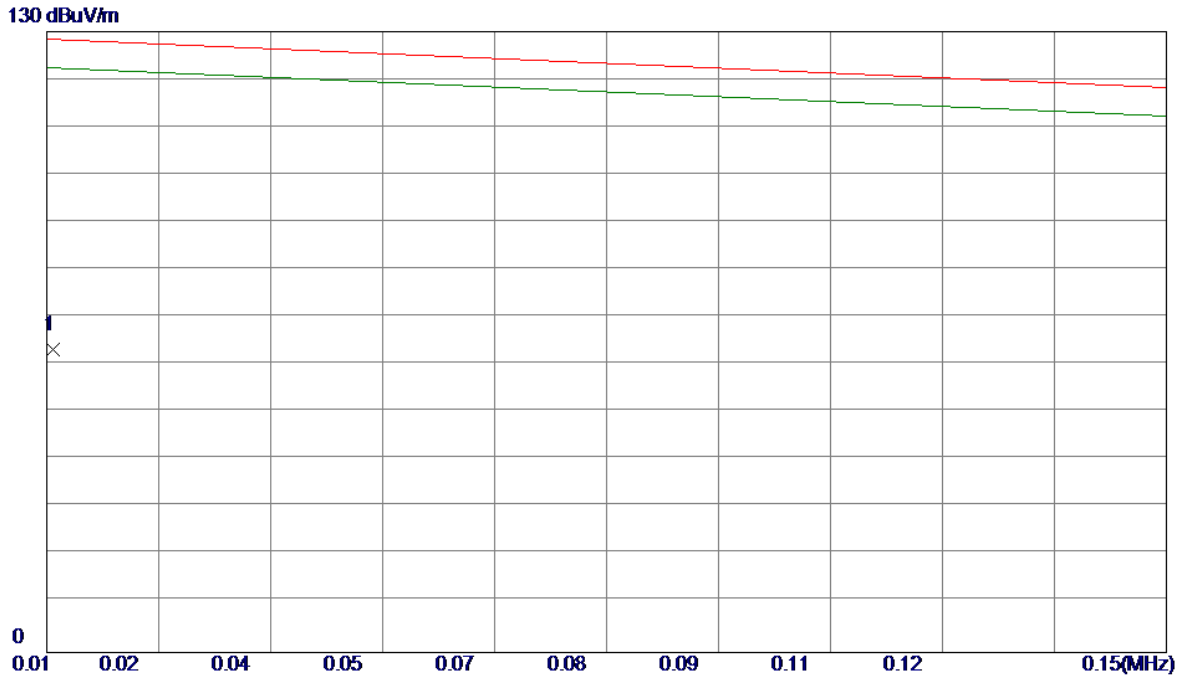
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5381	35.97	11.82	47.79	73.37	-25.58	Peak	
2	1.0754	30.58	11.97	42.55	68.58	-26.03	Peak	
3	1.4336	27.03	11.80	38.83	65.39	-26.56	Peak	
4	1.8515	23.78	11.62	35.40	69.54	-34.14	Peak	
5	2.3291	21.30	11.40	32.70	69.54	-36.84	Peak	
6	3.4335	18.28	11.16	29.44	69.54	-40.10	Peak	

Test Mode: UNII-2C/TX Mode_Without Pistol

Ant 0°

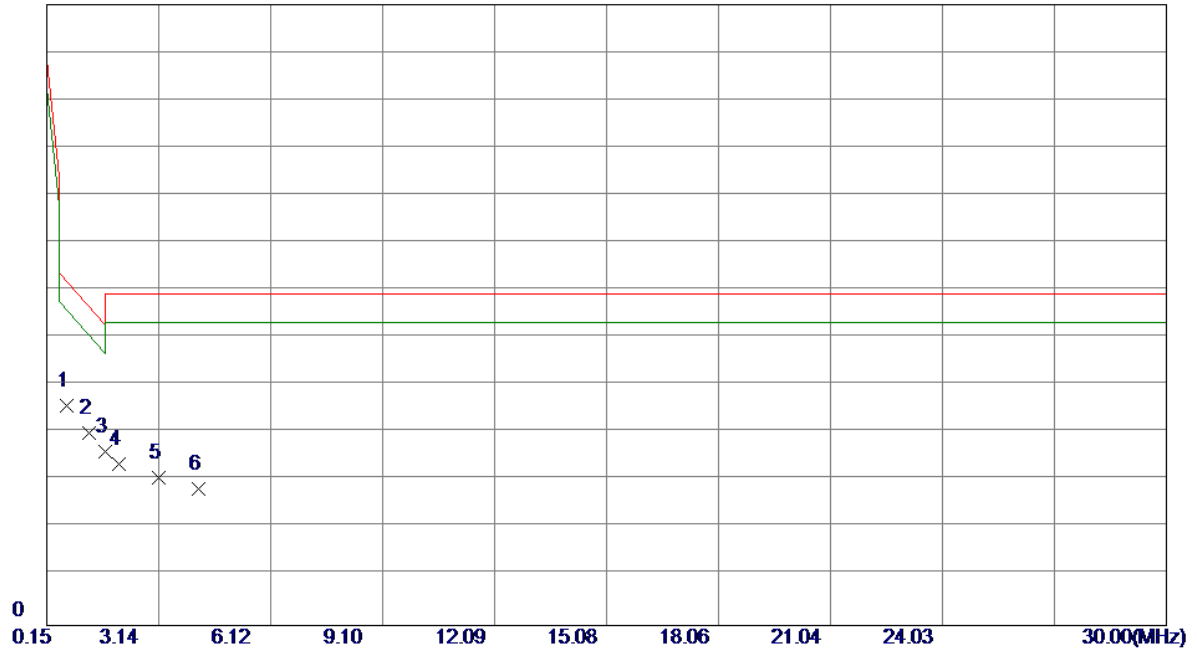


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0098	42.97	20.50	63.47	128.46	-64.99	Peak	

Test Mode: UNII-2C/TX Mode_Without Pistol

Ant 0°

130 dBuV/m

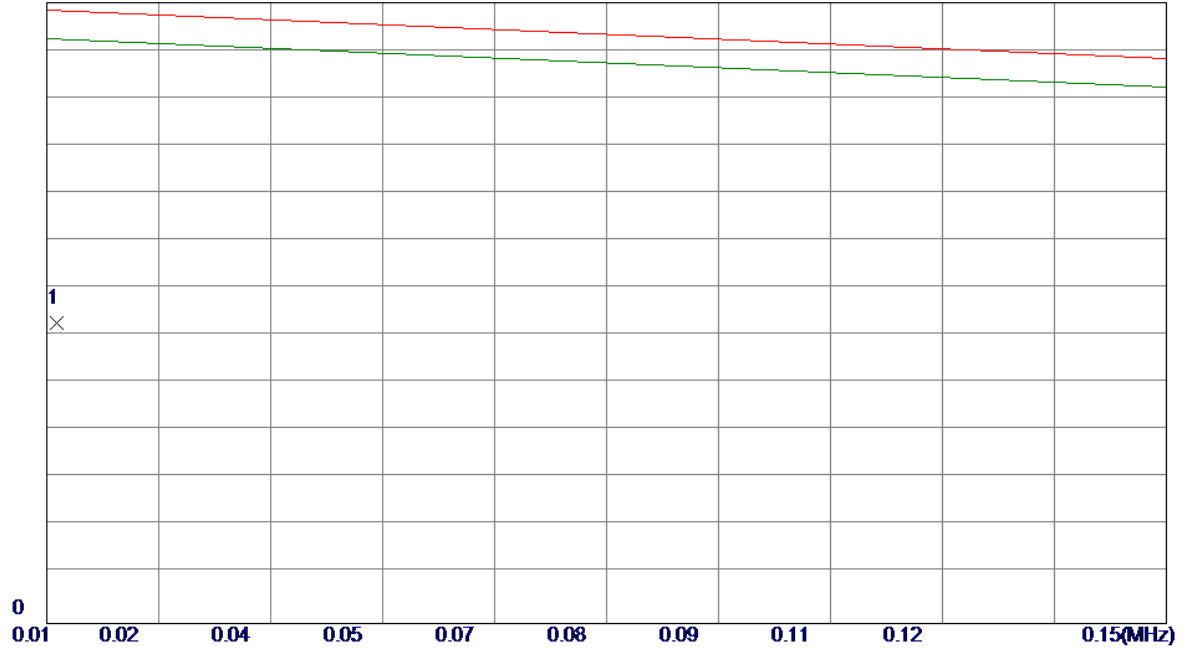


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.6873	34.05	11.87	45.92	72.04	-26.12	Peak	
2	1.2843	28.48	11.87	40.35	66.72	-26.37	Peak	
3	1.7022	24.73	11.68	36.41	62.99	-26.58	Peak	
4	2.0604	22.39	11.52	33.91	69.54	-35.63	Peak	
5	3.1350	19.79	11.12	30.91	69.54	-38.63	Peak	
6	4.1798	17.26	11.28	28.54	69.54	-41.00	Peak	

Test Mode: UNII-2C/TX Mode_Without Pistol

Ant 90°

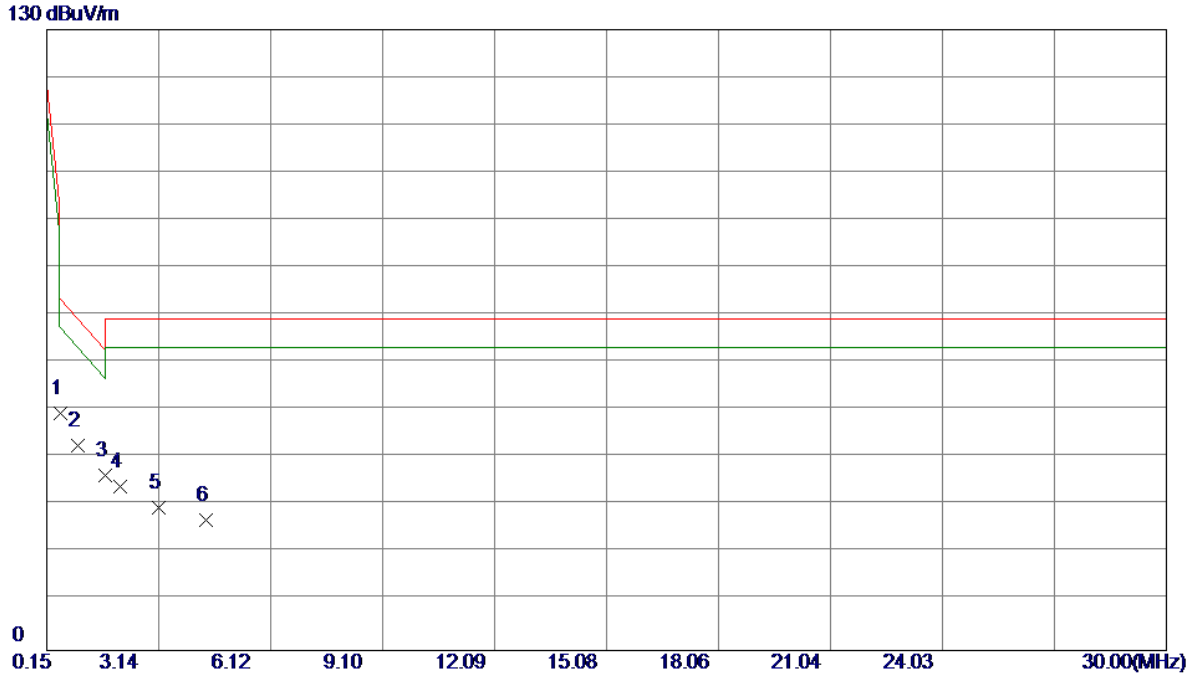
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0103	42.38	20.42	62.80	128.42	-65.62	Peak	

Test Mode: UNII-2C/TX Mode_Without Pistol

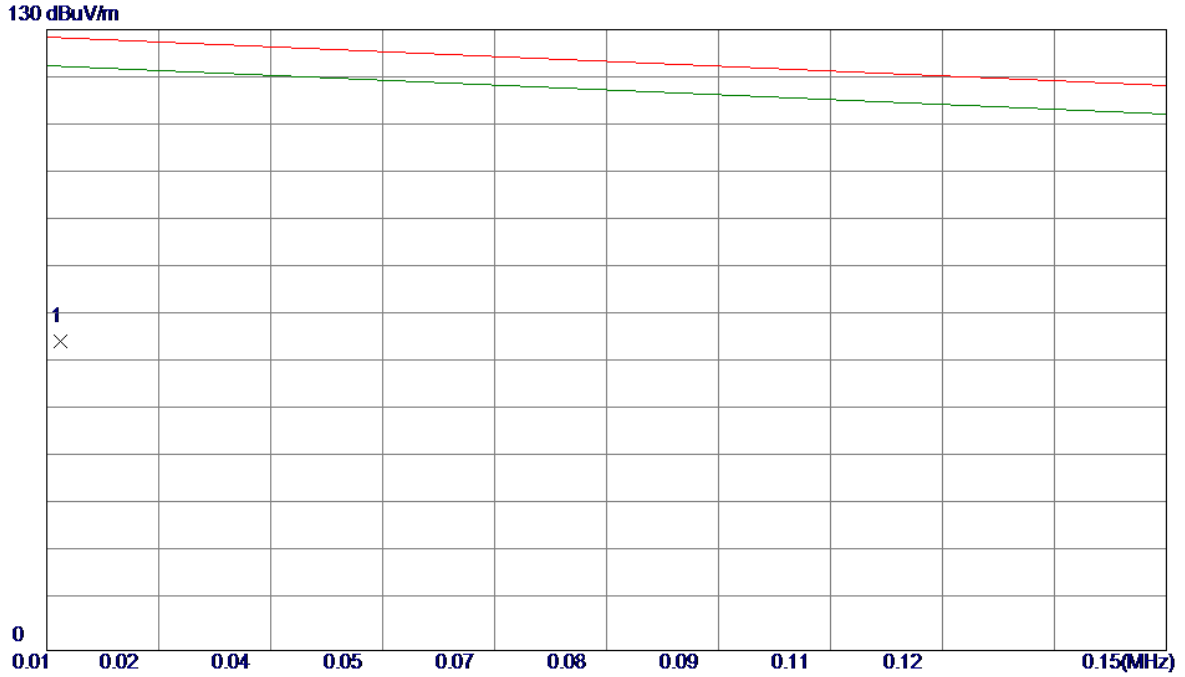
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5082	37.82	11.80	49.62	73.64	-24.02	Peak	
2	0.9858	30.93	11.99	42.92	69.38	-26.46	Peak	
3	1.7022	24.87	11.68	36.55	62.99	-26.44	Peak	
4	2.1201	22.78	11.50	34.28	69.54	-35.26	Peak	
5	3.1350	18.75	11.12	29.87	69.54	-39.67	Peak	
6	4.3887	15.98	11.31	27.29	69.54	-42.25	Peak	

Test Mode: UNII-3/TX Mode_Without Pistol

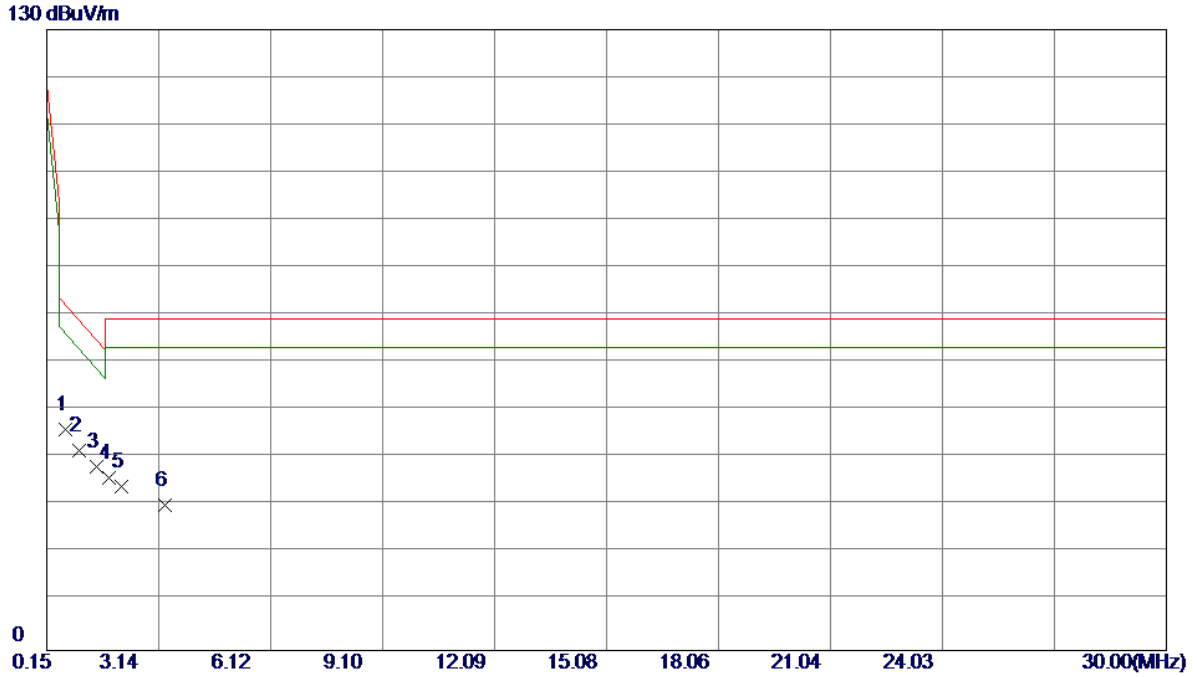
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0107	44.32	20.31	64.63	128.39	-63.76	Peak	

Test Mode: UNII-3/TX Mode_Without Pistol

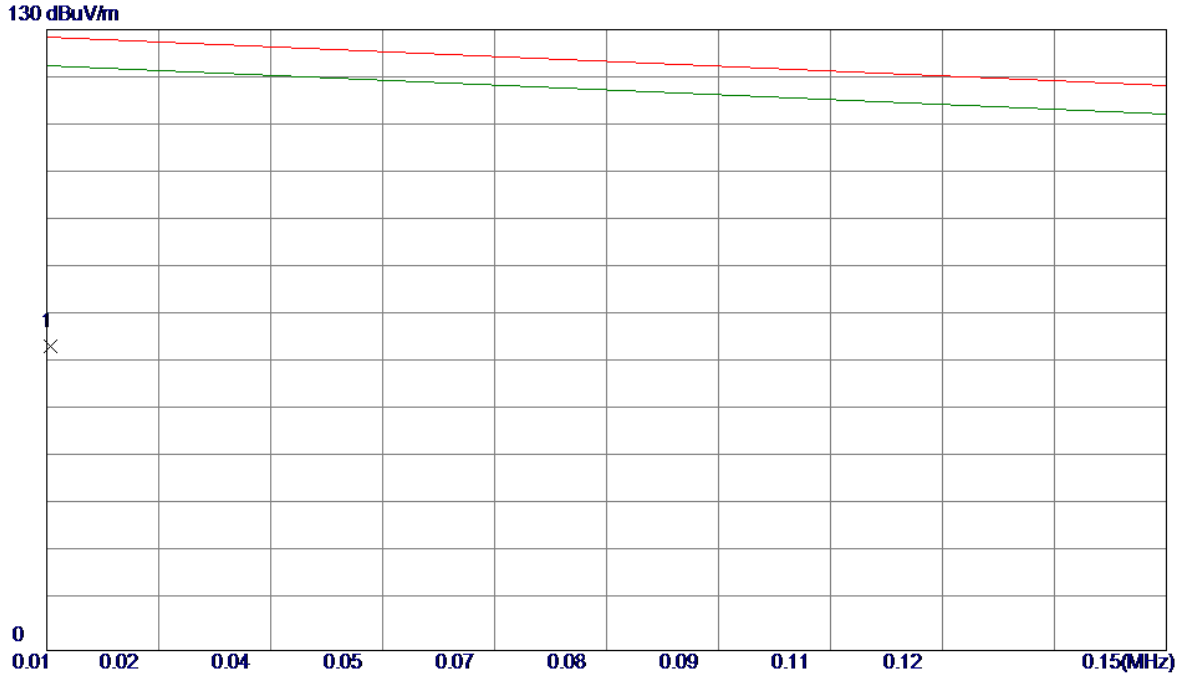
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.6574	34.34	11.86	46.20	72.31	-26.11	Peak	
2	1.0156	29.83	11.99	41.82	69.11	-27.29	Peak	
3	1.4932	26.73	11.78	38.51	64.86	-26.35	Peak	
4	1.8216	24.57	11.63	36.20	69.54	-33.34	Peak	
5	2.1500	22.73	11.48	34.21	69.54	-35.33	Peak	
6	3.3141	19.23	11.15	30.38	69.54	-39.16	Peak	

Test Mode: UNII-3/TX Mode_Without Pistol

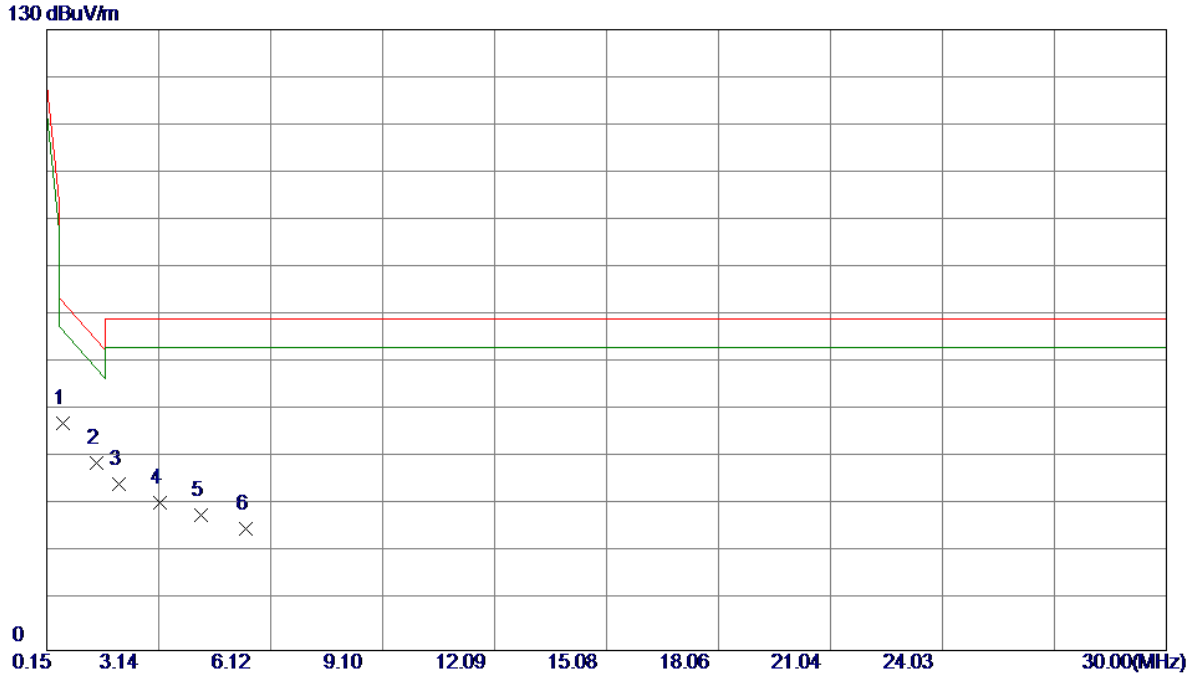
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0094	43.24	20.50	63.74	128.48	-64.74	Peak	

Test Mode: UNII-3/TX Mode_Without Pistol

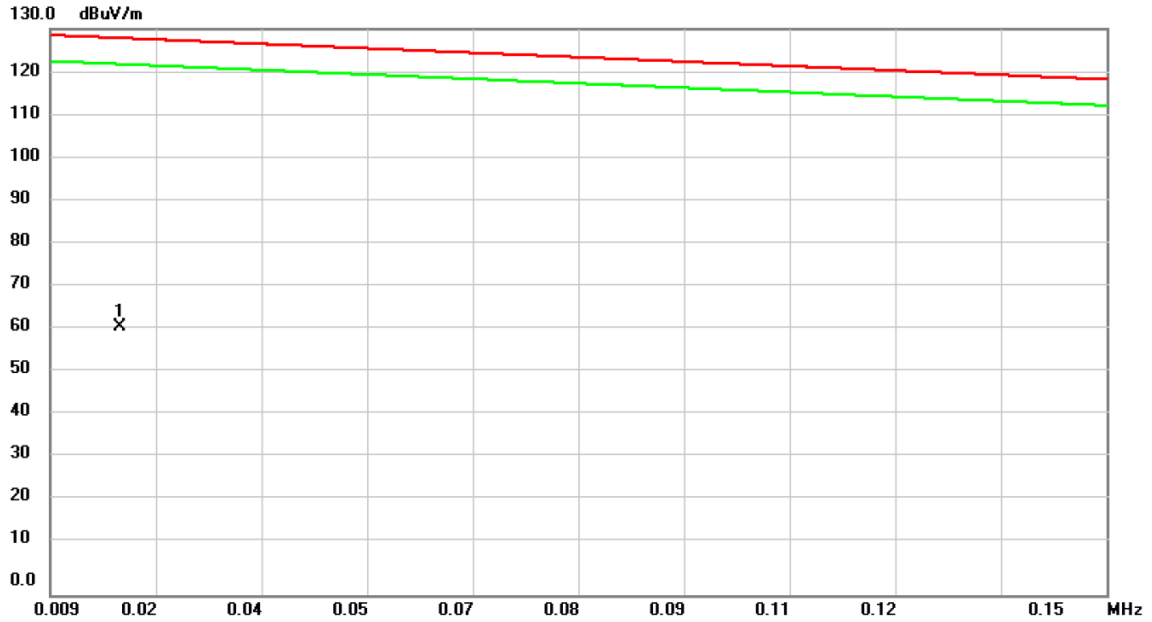
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5680	35.76	11.83	47.59	73.10	-25.51	Peak	
2	1.4932	27.36	11.78	39.14	64.86	-25.72	Peak	
3	2.0604	23.25	11.52	34.77	69.54	-34.77	Peak	
4	3.1648	19.88	11.12	31.00	69.54	-38.54	Peak	
5	4.2693	16.99	11.29	28.28	69.54	-41.26	Peak	
6	5.4633	14.21	11.39	25.60	69.54	-43.94	Peak	

Test Mode: UNII-1/TX Mode_With Pistol

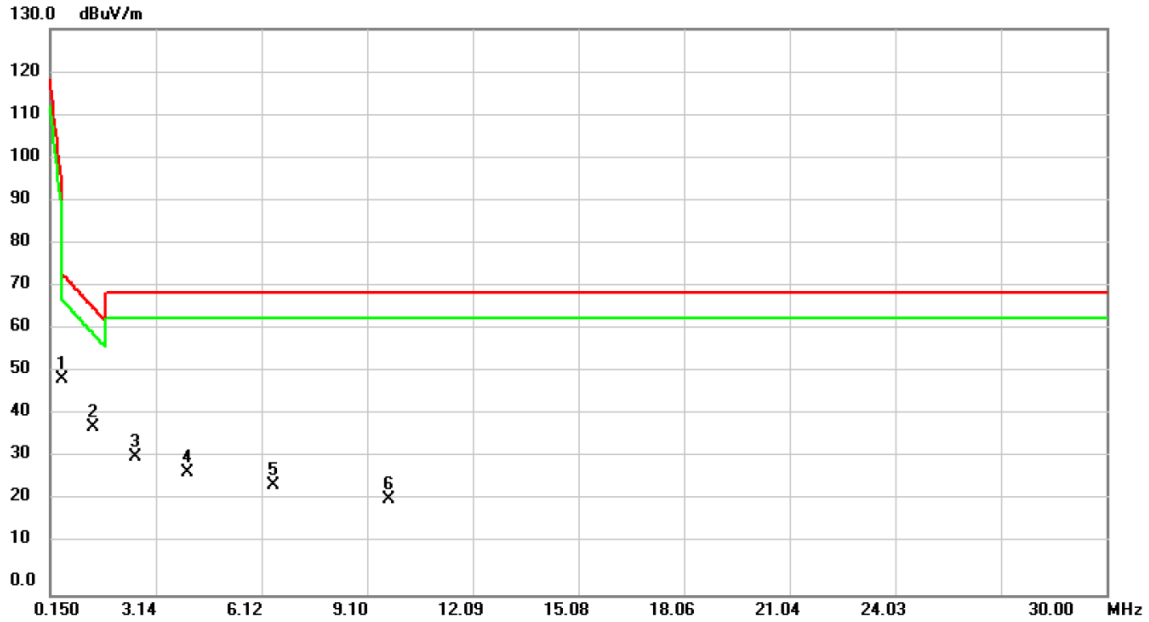
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0183	43.29	18.22	61.51	127.85	-66.34	peak	

Test Mode: UNII-1/TX Mode_With Pistol

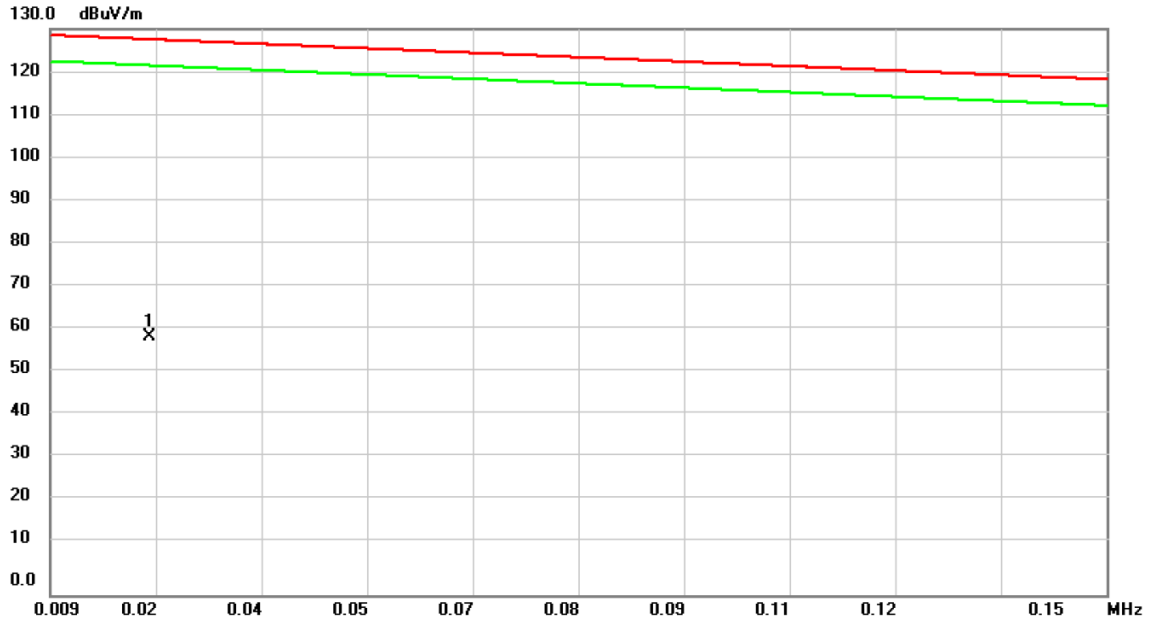
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.5080	37.82	11.80	49.62	73.64	-24.02	peak	
2		1.3440	26.55	11.85	38.40	66.19	-27.79	peak	
3		2.5380	20.40	11.31	31.71	69.54	-37.83	peak	
4		4.0304	16.85	11.25	28.10	69.54	-41.44	peak	
5		6.4481	13.89	11.37	25.26	69.54	-44.28	peak	
6		9.7317	10.67	11.31	21.98	69.54	-47.56	peak	

Test Mode: UNII-1/TX Mode_With Pistol

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0223	42.16	17.12	59.28	127.56	-68.28	peak	

Test Mode: UNII-1/TX Mode_With Pistol

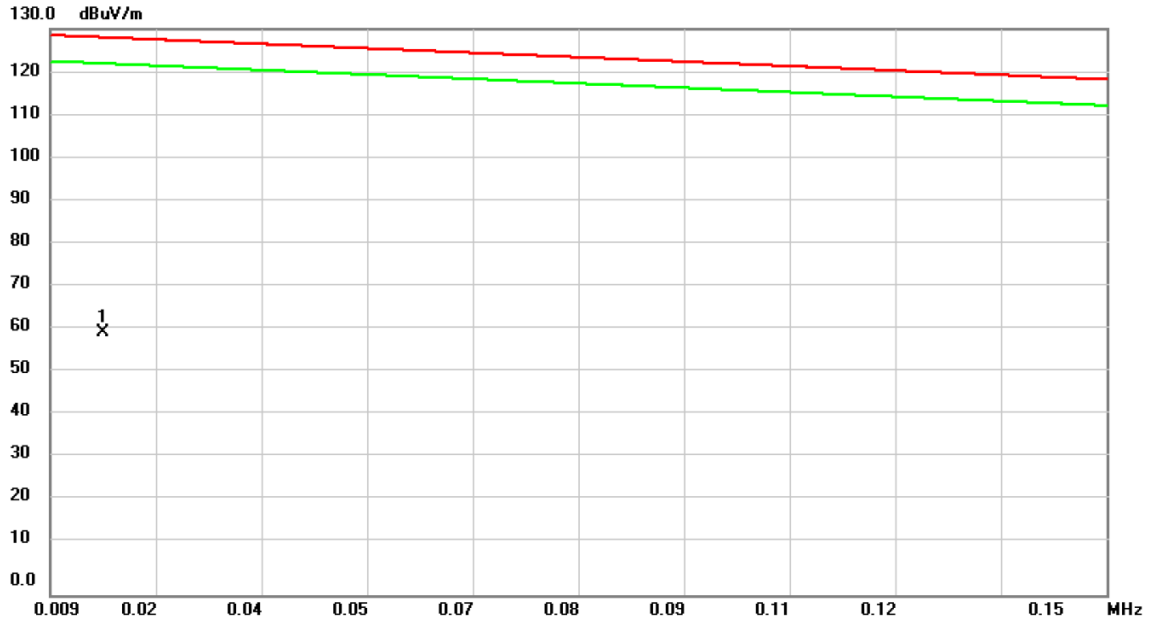
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.0455	30.05	11.98	42.03	68.85	-26.82	peak	
2		2.3590	21.52	11.39	32.91	69.54	-36.63	peak	
3		4.2096	16.70	11.28	27.98	69.54	-41.56	peak	
4		6.0006	14.64	11.38	26.02	69.54	-43.52	peak	
5		9.1942	12.60	11.32	23.92	69.54	-45.62	peak	
6		12.3885	9.83	11.23	21.06	69.54	-48.48	peak	

Test Mode: UNII-2A/TX Mode_With Pistol

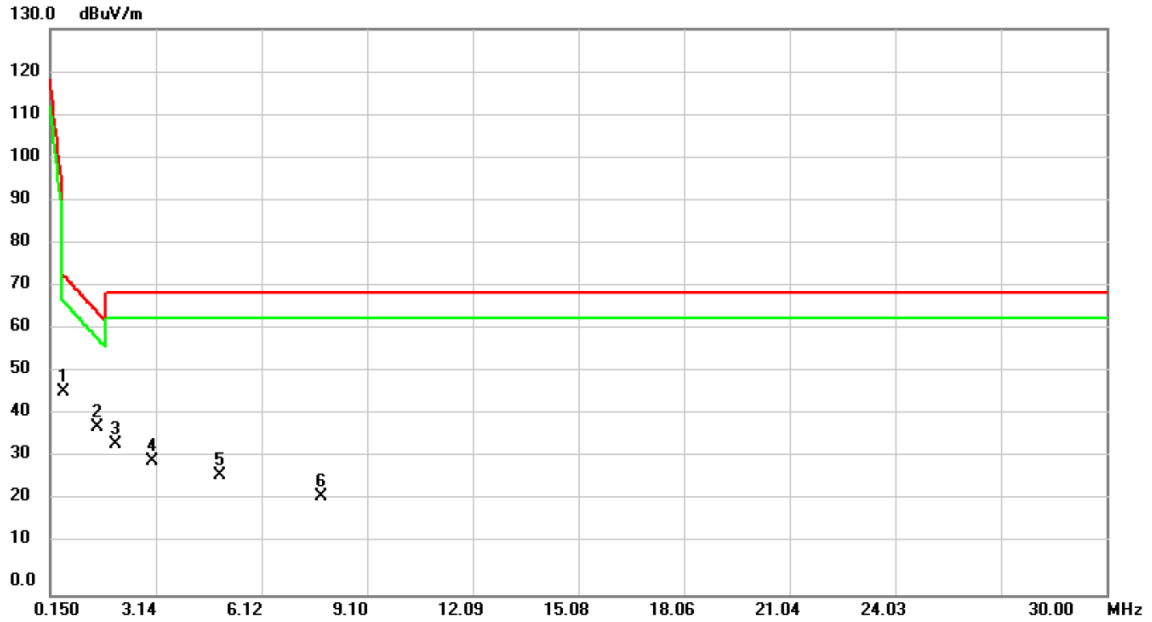
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0160	41.59	18.85	60.44	128.01	-67.57	peak	

Test Mode: UNII-2A/TX Mode_With Pistol

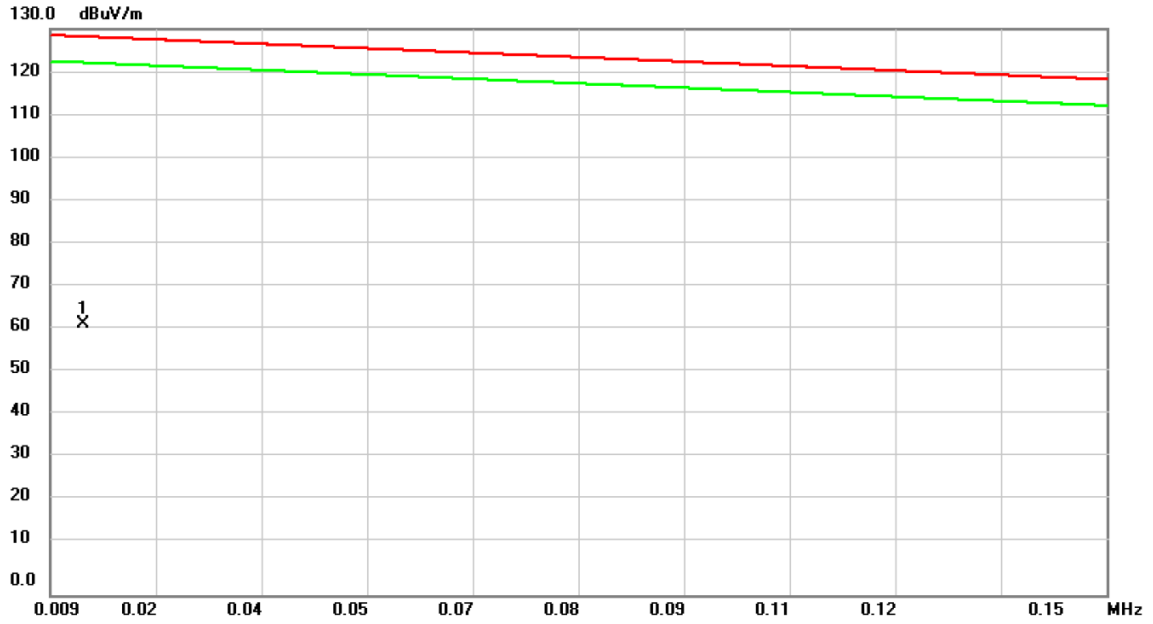
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.5381	34.76	11.82	46.58	73.37	-26.79	peak	
2	*	1.4932	26.73	11.78	38.51	64.86	-26.35	peak	
3		2.0007	23.06	11.55	34.61	69.54	-34.93	peak	
4		3.0156	19.49	11.10	30.59	69.54	-38.95	peak	
5		4.9260	16.12	11.39	27.51	69.54	-42.03	peak	
6		7.8212	11.36	11.34	22.70	69.54	-46.84	peak	

Test Mode: UNII-2A/TX Mode_With Pistol

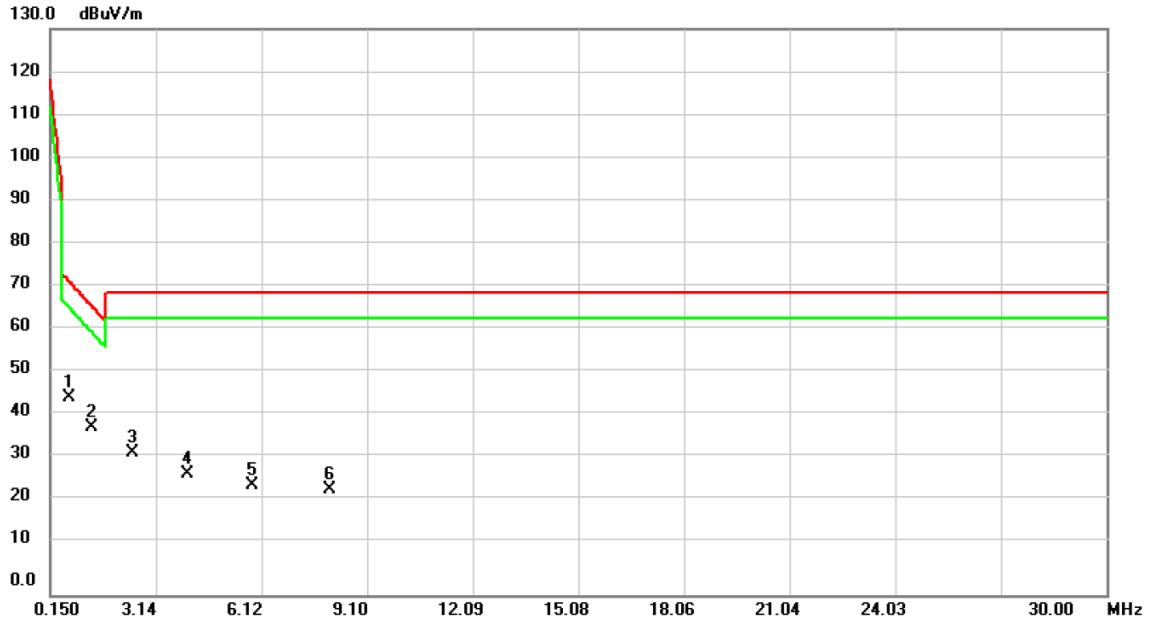
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0134	42.75	19.57	62.32	128.20	-65.88	peak	

Test Mode: UNII-2A/TX Mode_With Pistol

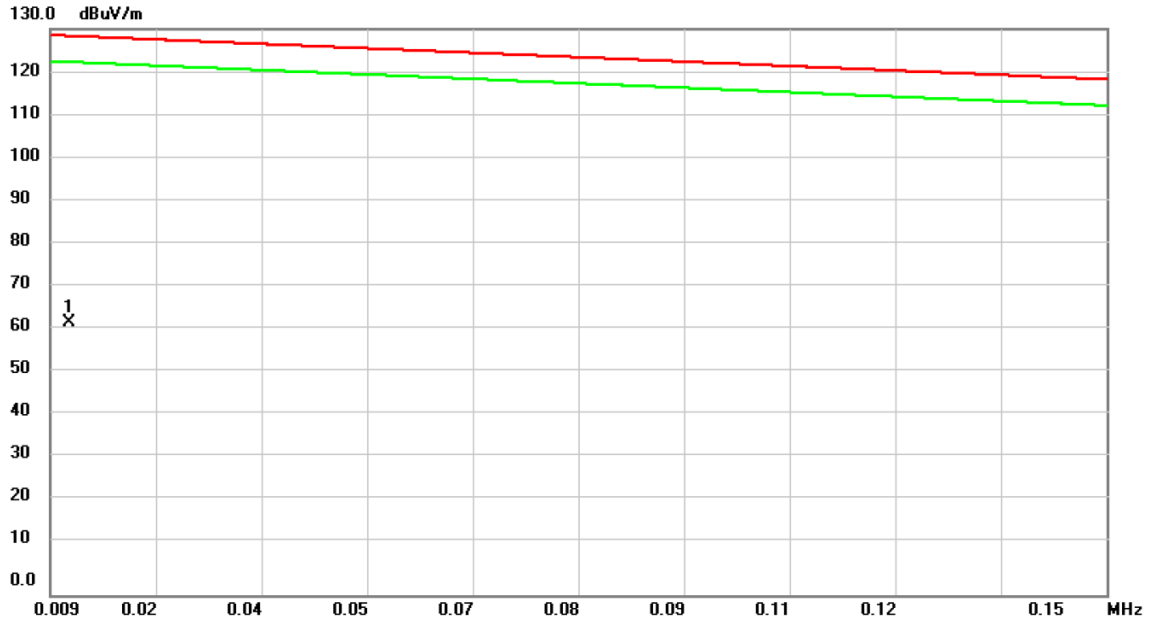
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.6873	33.50	11.87	45.37	72.04	-26.67	peak	
2		1.3141	26.70	11.86	38.56	66.45	-27.89	peak	
3		2.4782	21.30	11.33	32.63	69.54	-36.91	peak	
4		4.0304	16.66	11.25	27.91	69.54	-41.63	peak	
5		5.8810	13.91	11.38	25.29	69.54	-44.25	peak	
6		8.0602	12.82	11.34	24.16	69.54	-45.38	peak	

Test Mode: UNII-2C/TX Mode_With Pistol

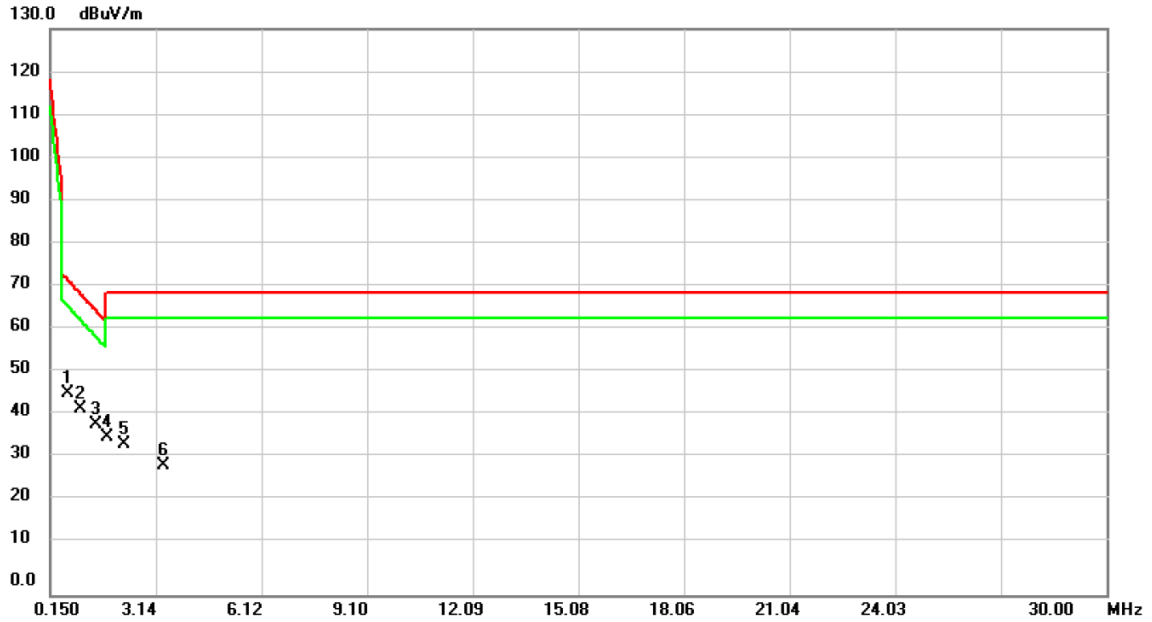
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0115	42.61	20.09	62.70	128.34	-65.64	peak	

Test Mode: UNII-2C/TX Mode_With Pistol

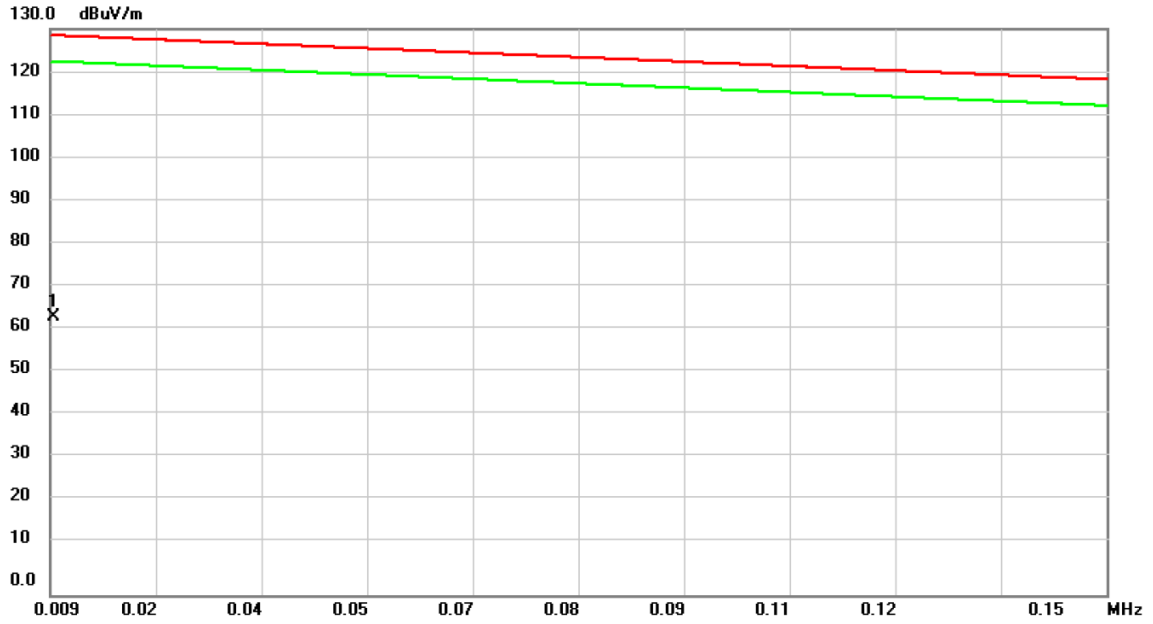
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.6276	34.39	11.85	46.24	72.57	-26.33	peak	
2		0.9858	30.61	11.99	42.60	69.38	-26.78	peak	
3	*	1.4336	27.34	11.80	39.14	65.39	-26.25	peak	
4		1.7620	24.55	11.66	36.21	69.54	-33.33	peak	
5		2.2395	23.20	11.44	34.64	69.54	-34.90	peak	
6		3.3440	18.58	11.15	29.73	69.54	-39.81	peak	

Test Mode: UNII-2C/TX Mode_With Pistol

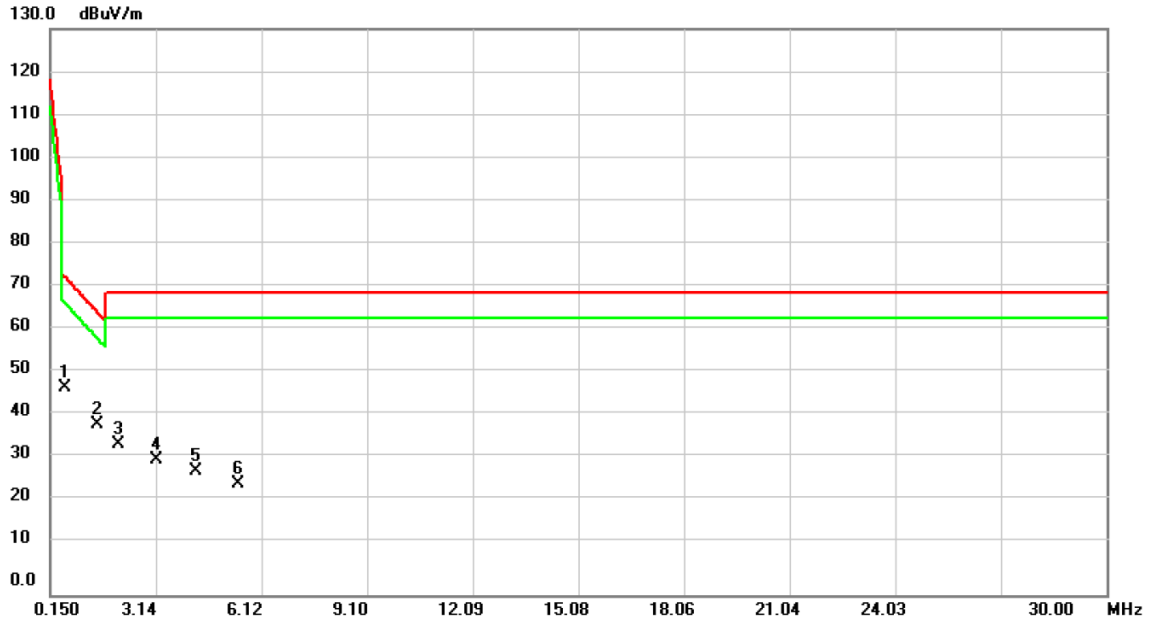
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0094	43.24	20.50	63.74	128.49	-64.75	peak	

Test Mode: UNII-2C/TX Mode_With Pistol

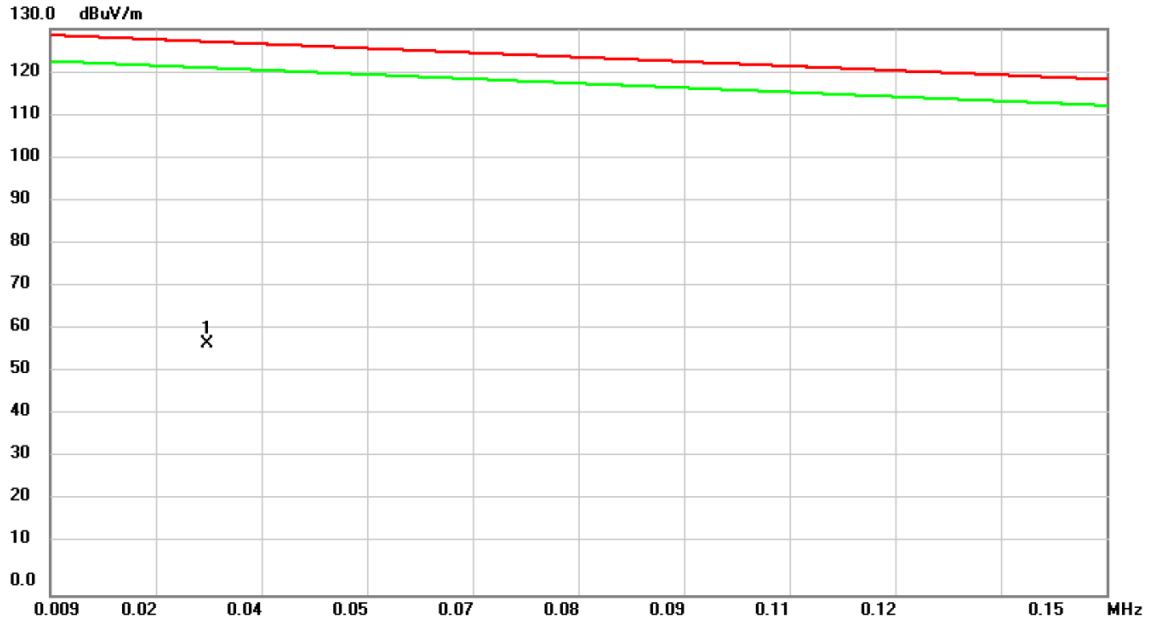
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.5680	35.76	11.83	47.59	73.10	-25.51	peak	
2		1.4932	27.36	11.78	39.14	64.86	-25.72	peak	
3		2.0604	23.25	11.52	34.77	69.54	-34.77	peak	
4		3.1648	19.88	11.12	31.00	69.54	-38.54	peak	
5		4.2693	16.99	11.29	28.28	69.54	-41.26	peak	
6		5.4633	14.21	11.39	25.60	69.54	-43.94	peak	

Test Mode: UNII-3/TX Mode_With Pistol

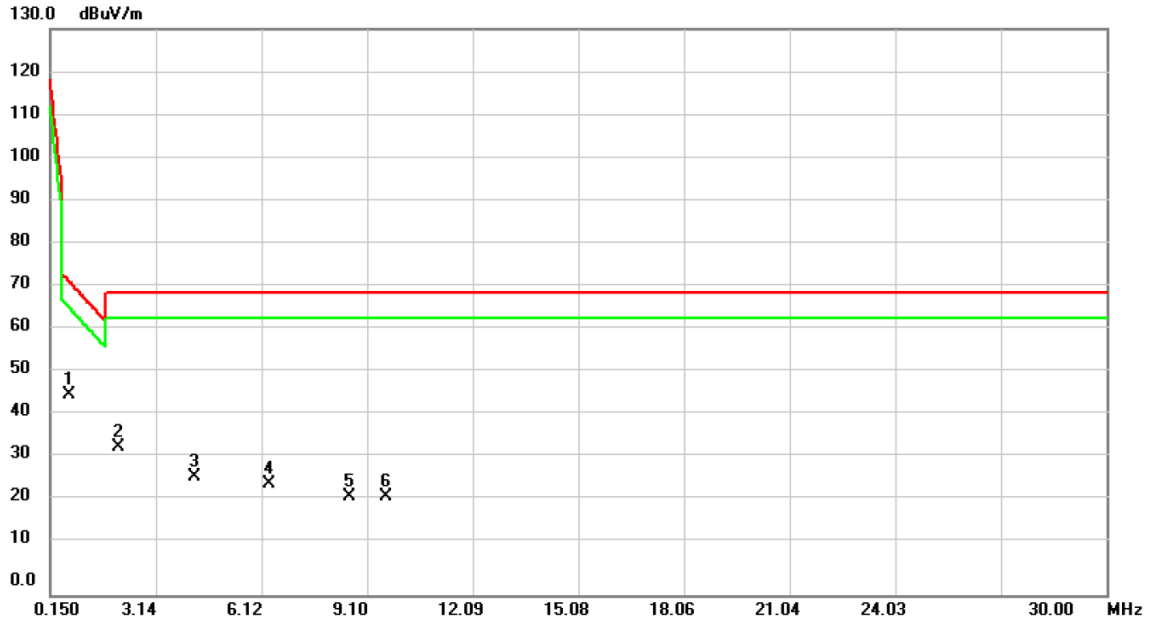
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0300	42.57	15.00	57.57	127.00	-69.43	peak	

Test Mode: UNII-3/TX Mode_With Pistol

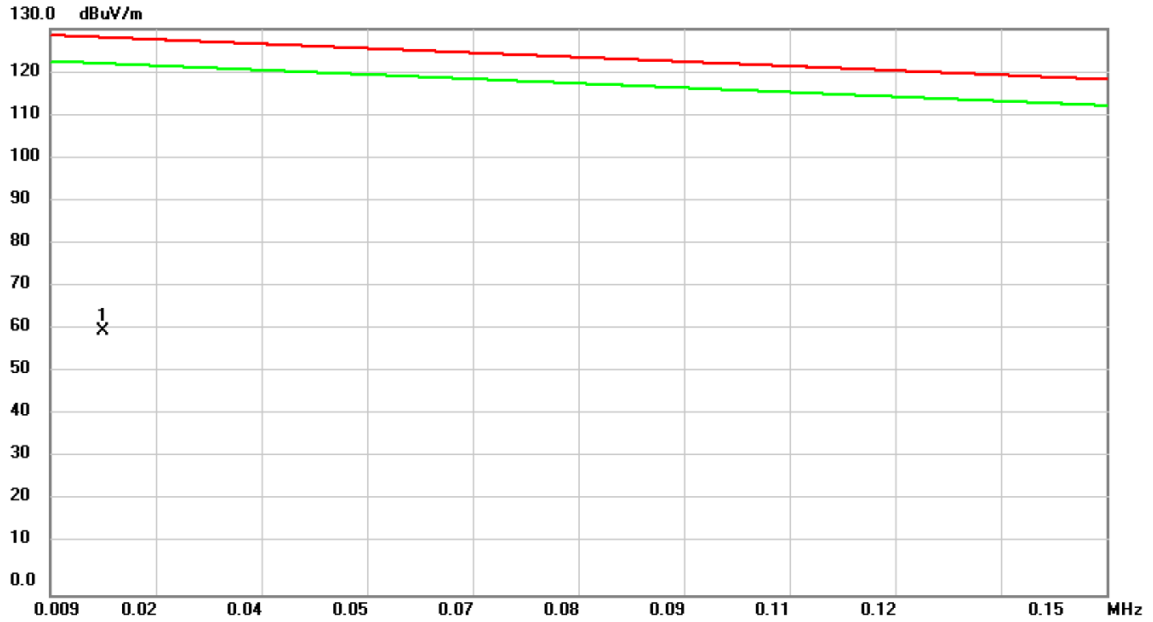
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.6873	34.05	11.87	45.92	72.04	-26.12	peak	
2		2.0604	22.39	11.52	33.91	69.54	-35.63	peak	
3		4.2096	15.91	11.28	27.19	69.54	-42.35	peak	
4		6.3287	14.21	11.37	25.58	69.54	-43.96	peak	
5		8.6272	11.31	11.33	22.64	69.54	-46.90	peak	
6		9.6423	11.27	11.31	22.58	69.54	-46.96	peak	

Test Mode: UNII-3/TX Mode_With Pistol

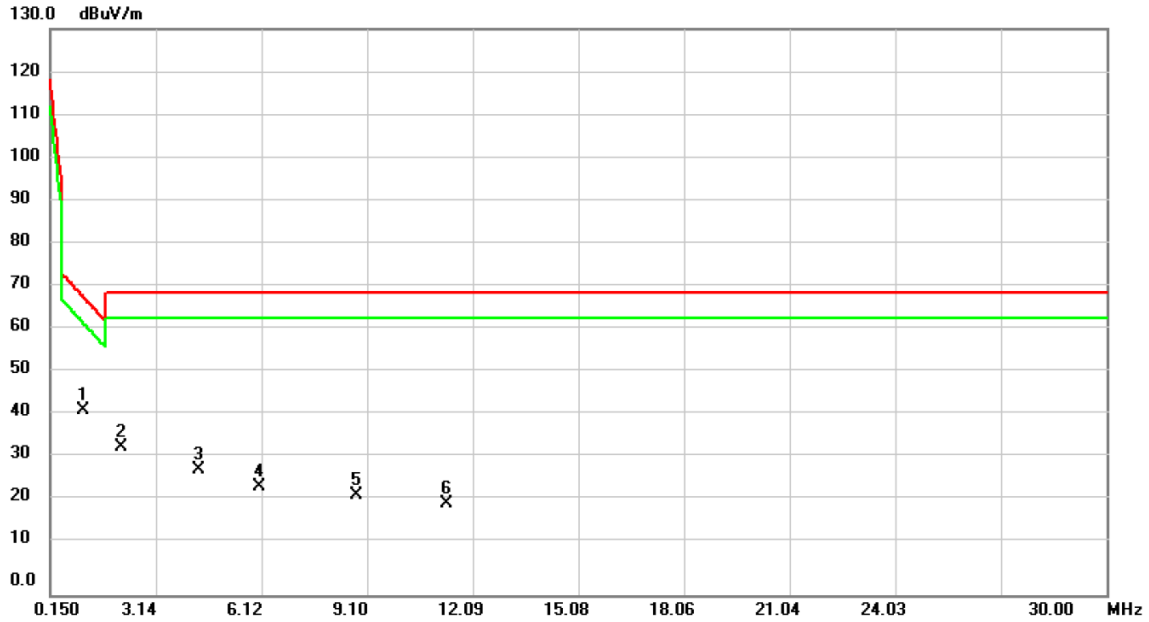
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0160	41.92	18.85	60.77	128.01	-67.24	peak	

Test Mode: UNII-3/TX Mode_With Pistol

Ant 90°

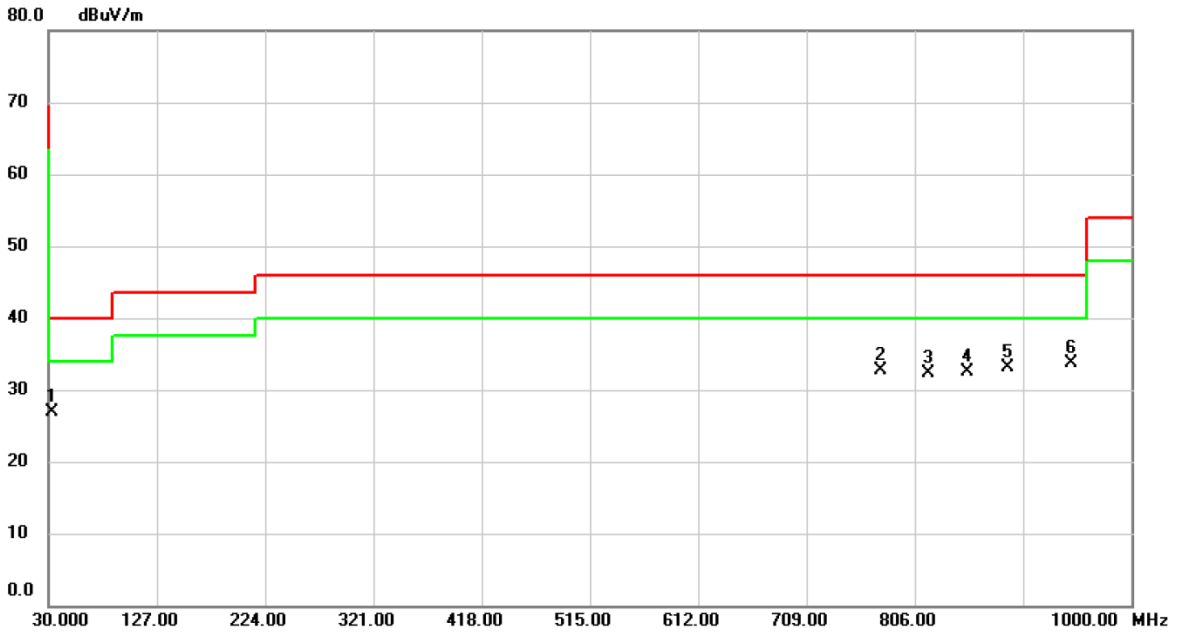


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.0751	30.58	11.97	42.55	68.58	-26.03	peak	
2		2.1500	22.59	11.48	34.07	69.54	-35.47	peak	
3		4.3290	17.40	11.30	28.70	69.54	-40.84	peak	
4		6.0602	13.39	11.38	24.77	69.54	-44.77	peak	
5		8.8063	11.52	11.32	22.84	69.54	-46.70	peak	
6		11.3734	9.67	11.26	20.93	69.54	-48.61	peak	

ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: UNII-1/ TX AC80 Mode 5210MHz_Without Pistol

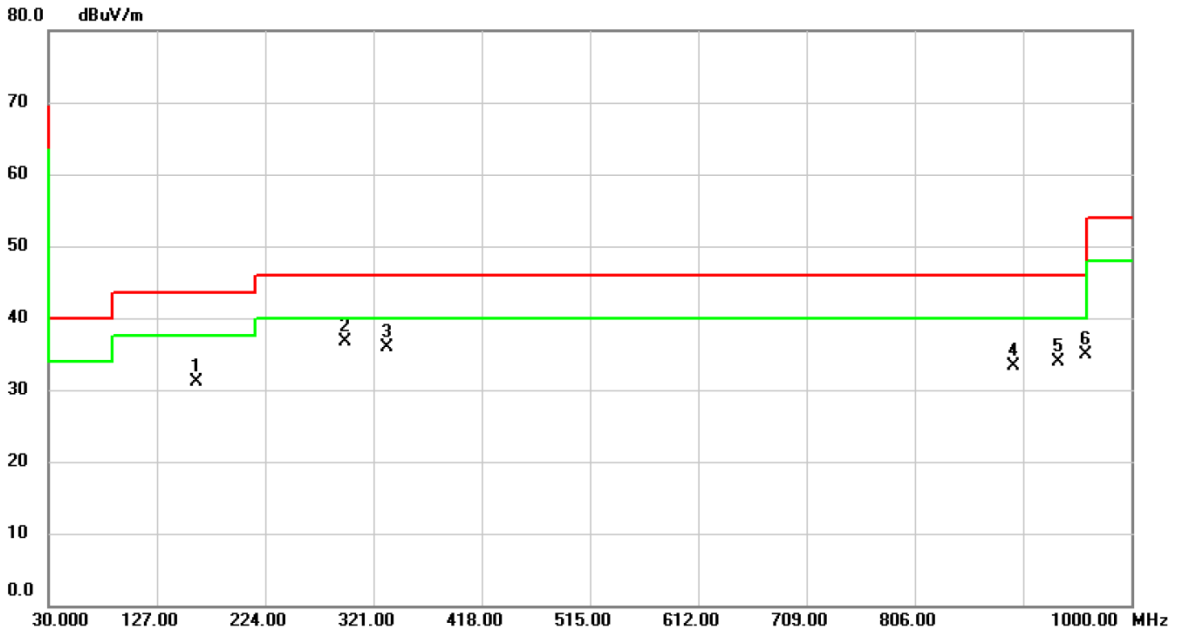
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		32.9100	35.88	-9.07	26.81	40.00	-13.19	peak	
2		775.9300	30.59	2.17	32.76	46.00	-13.24	peak	
3		818.6100	29.52	2.69	32.21	46.00	-13.79	peak	
4		853.5300	29.32	3.19	32.51	46.00	-13.49	peak	
5		889.4200	29.14	3.91	33.05	46.00	-12.95	peak	
6	*	946.6500	28.76	4.93	33.69	46.00	-12.31	peak	

Test Mode: UNII-1/ TX AC80 Mode 5210MHz_Without Pistol

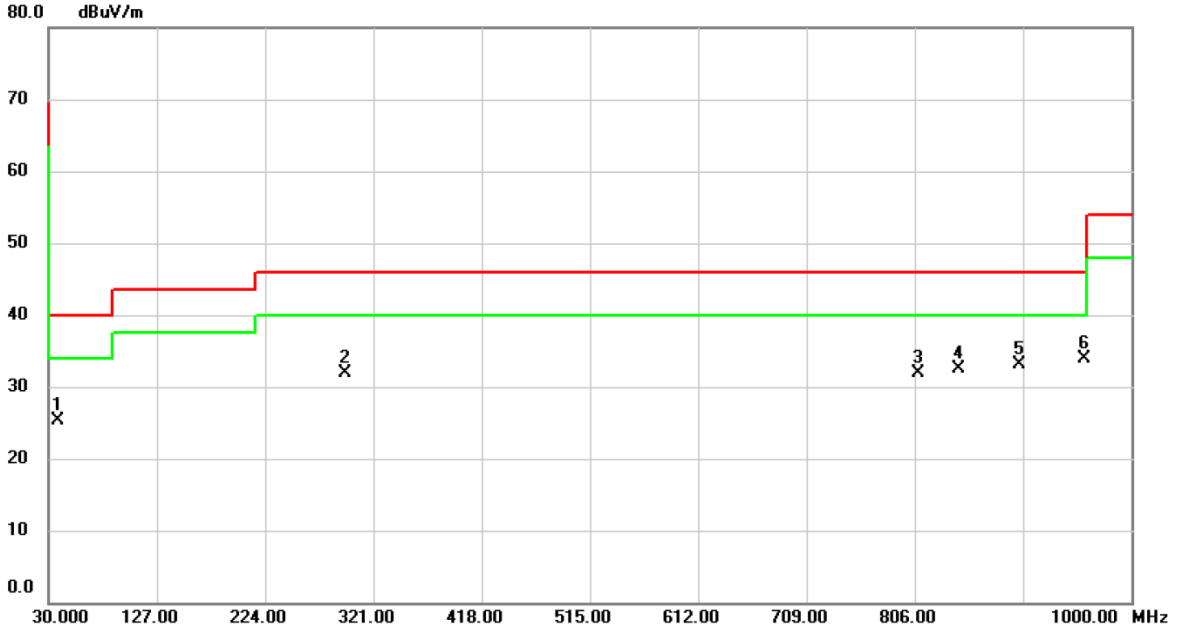
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		161.9200	39.96	-8.84	31.12	43.50	-12.38	peak	
2	*	295.7800	44.64	-7.84	36.80	46.00	-9.20	peak	
3		332.6400	42.84	-6.85	35.99	46.00	-10.01	peak	
4		894.2700	29.25	4.01	33.26	46.00	-12.74	peak	
5		934.0400	29.21	4.71	33.92	46.00	-12.08	peak	
6		959.2600	29.70	5.11	34.81	46.00	-11.19	peak	

Test Mode: UNII-1/ TX AC80 Mode 5290MHz_Without Pistol

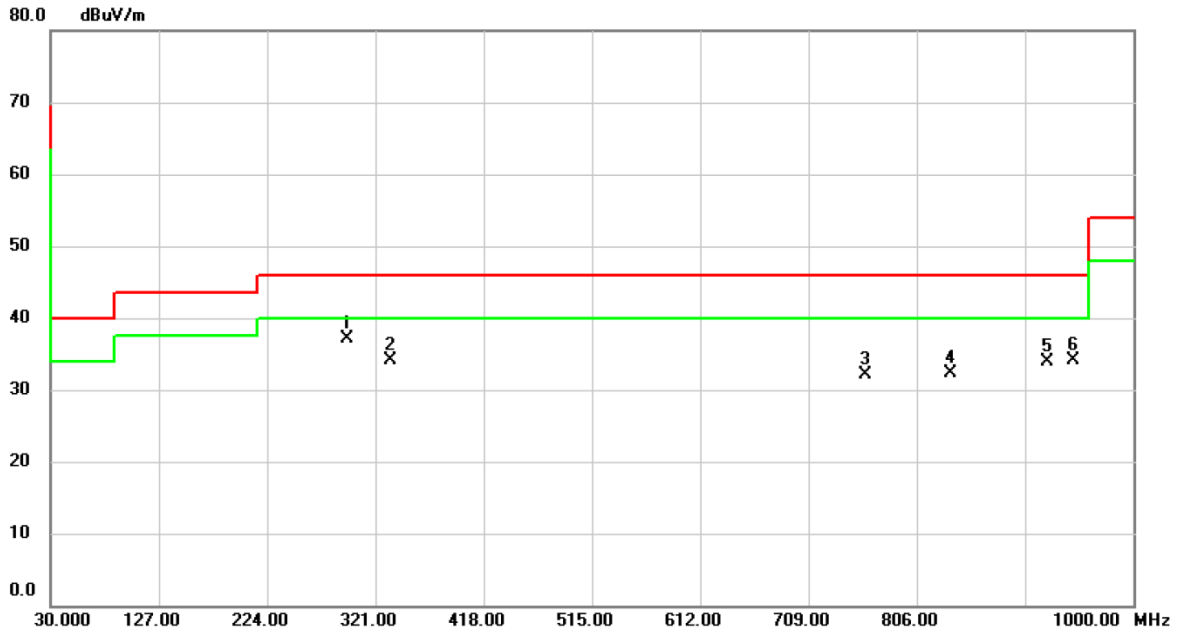
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		37.7600	34.28	-8.93	25.35	40.00	-14.65	peak	
2		295.7800	39.79	-7.84	31.95	46.00	-14.05	peak	
3		808.9100	29.35	2.54	31.89	46.00	-14.11	peak	
4		844.8000	29.46	3.05	32.51	46.00	-13.49	peak	
5		900.0900	28.91	4.12	33.03	46.00	-12.97	peak	
6	*	957.3200	28.73	5.09	33.82	46.00	-12.18	peak	

Test Mode: UNII-1/ TX AC80 Mode 5290MHz_Without Pistol

Horizontal

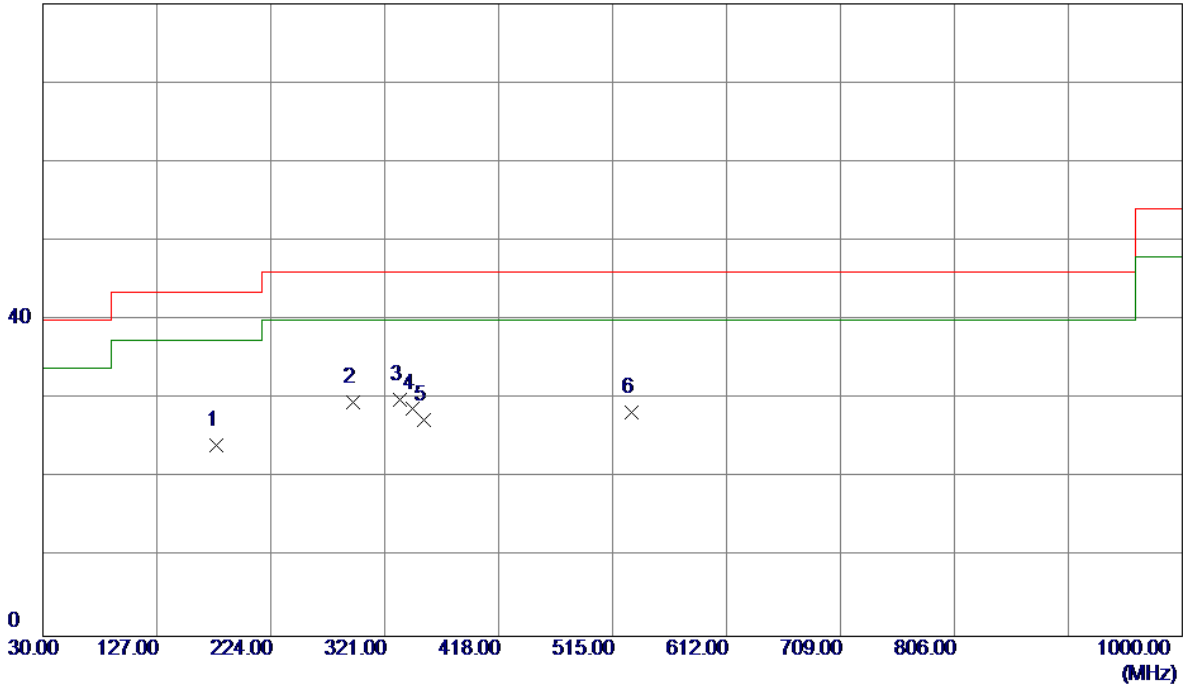


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	295.7800	44.88	-7.84	37.04	46.00	-8.96	peak	
2		334.5800	40.88	-6.79	34.09	46.00	-11.91	peak	
3		759.4400	30.14	1.99	32.13	46.00	-13.87	peak	
4		836.0700	29.37	2.92	32.29	46.00	-13.71	peak	
5		922.4000	29.40	4.51	33.91	46.00	-12.09	peak	
6		945.6800	29.26	4.91	34.17	46.00	-11.83	peak	

Test Mode: UNII-2C/TX A Mode 5700MHz_Without Pistol

Vertical

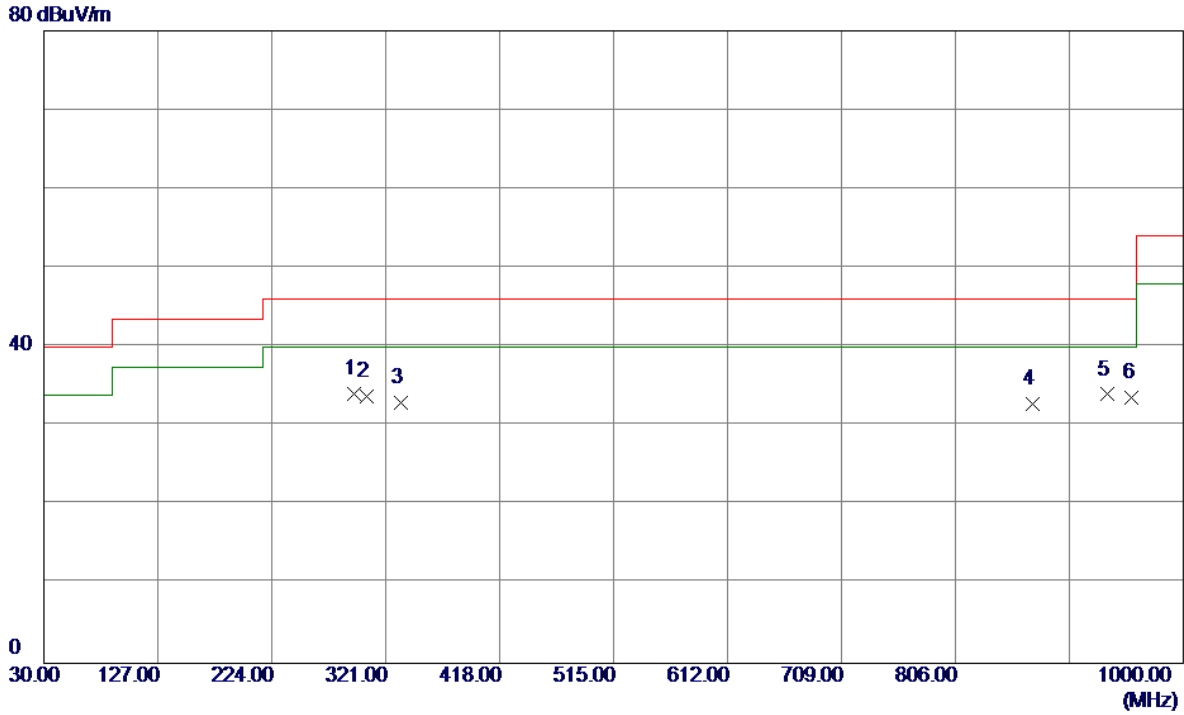
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	177.4400	34.02	-9.85	24.17	43.50	-19.33	Peak	
2	293.8400	37.49	-7.86	29.63	46.00	-16.37	Peak	
3 *	333.6099	36.70	-6.82	29.88	46.00	-16.12	Peak	
4	344.2800	35.30	-6.51	28.79	46.00	-17.21	Peak	
5	353.9800	33.55	-6.25	27.30	46.00	-18.70	Peak	
6	531.4900	30.72	-2.33	28.39	46.00	-17.61	Peak	

Test Mode: UNII-2C/TX A Mode 5700MHz_Without Pistol

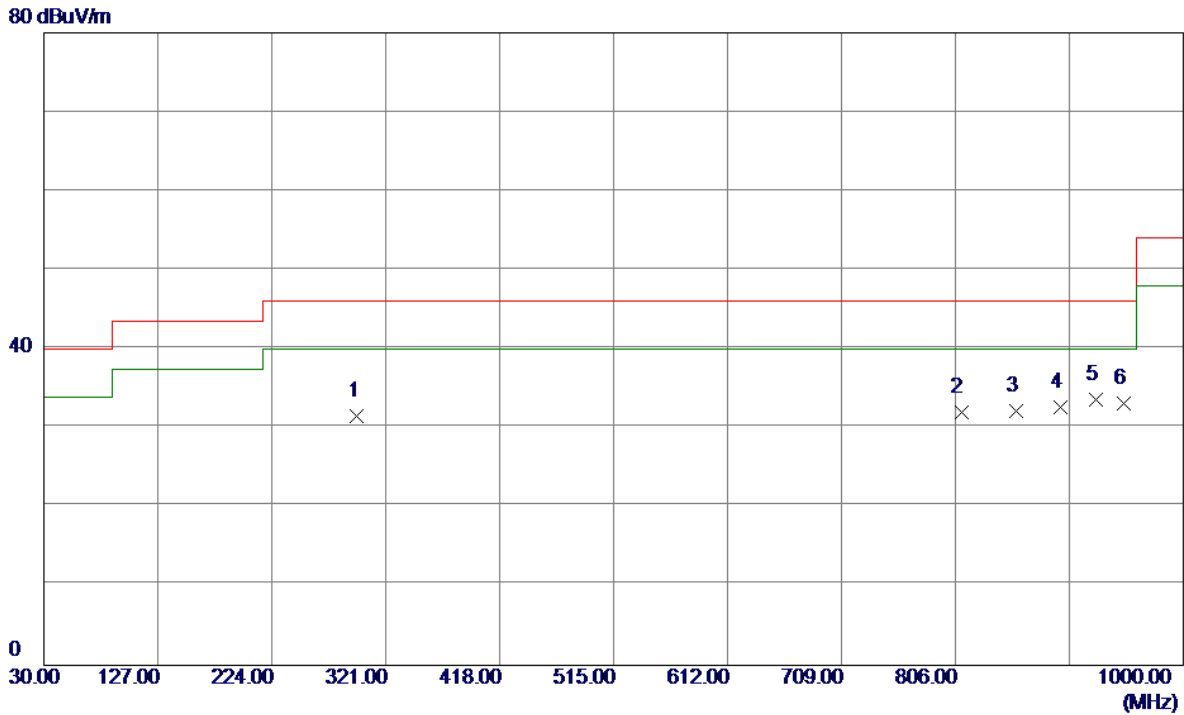
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	293.8400	41.97	-7.86	34.11	46.00	-11.89	Peak	
2	304.5100	41.40	-7.66	33.74	46.00	-12.26	Peak	
3	333.6099	39.76	-6.82	32.94	46.00	-13.06	Peak	
4	871.9600	29.20	3.56	32.76	46.00	-13.24	Peak	
5	935.0100	29.27	4.73	34.00	46.00	-12.00	Peak	
6	956.3500	28.58	5.08	33.66	46.00	-12.34	Peak	

Test Mode: UNII-3/TX A Mode 5825MHz_Without Pistol

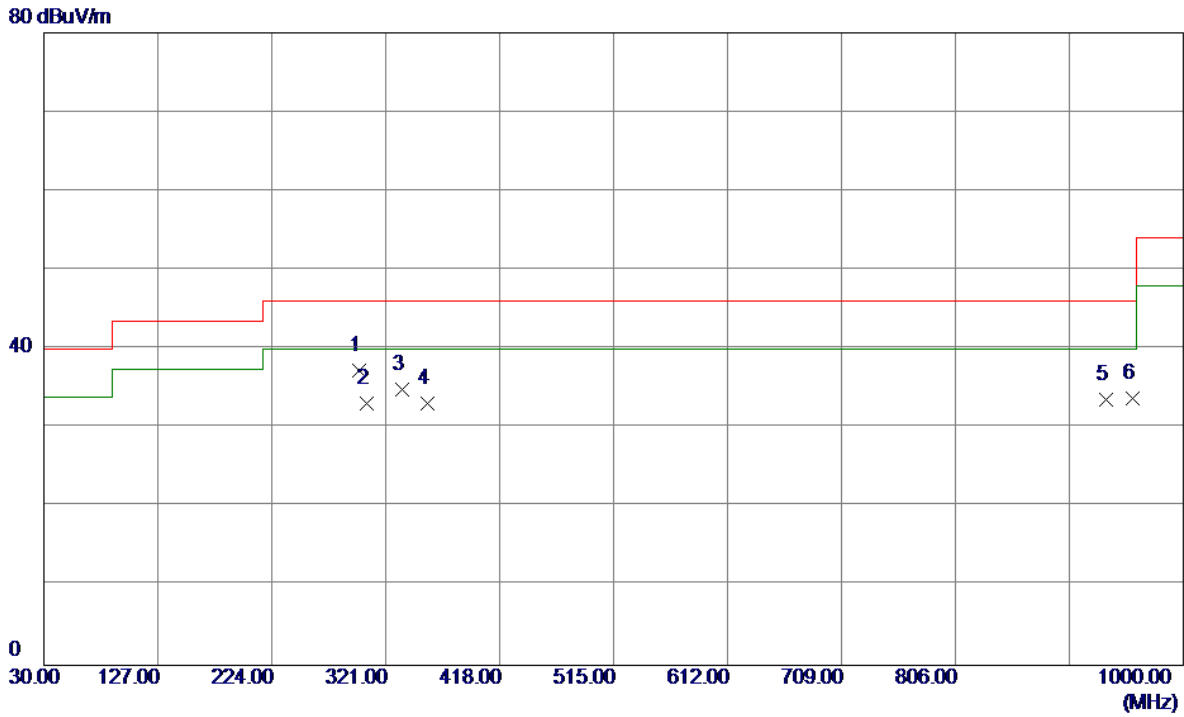
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	296.7500	39.30	-7.83	31.47	46.00	-14.53	Peak	
2	810.8500	29.42	2.57	31.99	46.00	-14.01	Peak	
3	857.4100	28.93	3.27	32.20	46.00	-13.80	Peak	
4	895.2400	28.57	4.02	32.59	46.00	-13.41	Peak	
5 *	925.3100	29.07	4.56	33.63	46.00	-12.37	Peak	
6	949.5600	28.13	4.98	33.11	46.00	-12.89	Peak	

Test Mode: UNII-3/TX A Mode 5825MHz_Without Pistol

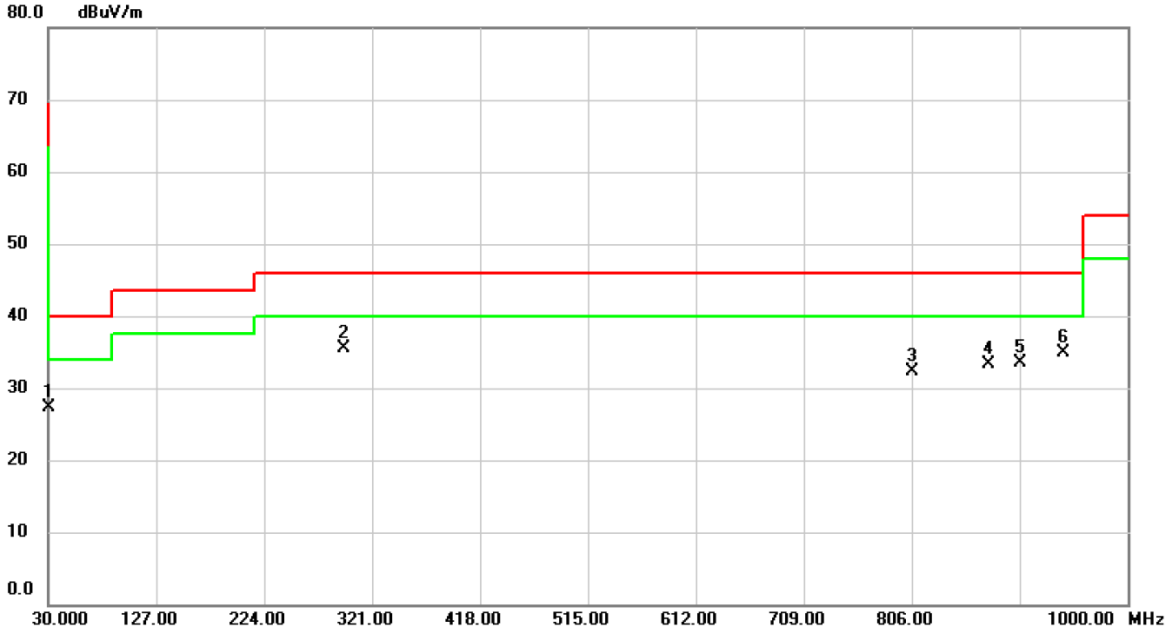
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	298.6900	45.10	-7.81	37.29	46.00	-8.71	Peak	
2	304.5100	40.75	-7.66	33.09	46.00	-12.91	Peak	
3	334.5799	41.67	-6.79	34.88	46.00	-11.12	Peak	
4	356.8900	39.29	-6.19	33.10	46.00	-12.90	Peak	
5	934.0400	28.96	4.71	33.67	46.00	-12.33	Peak	
6	957.3200	28.74	5.09	33.83	46.00	-12.17	Peak	

Test Mode: UNII-1/ TX AC80 Mode 5210MHz_With Pistol

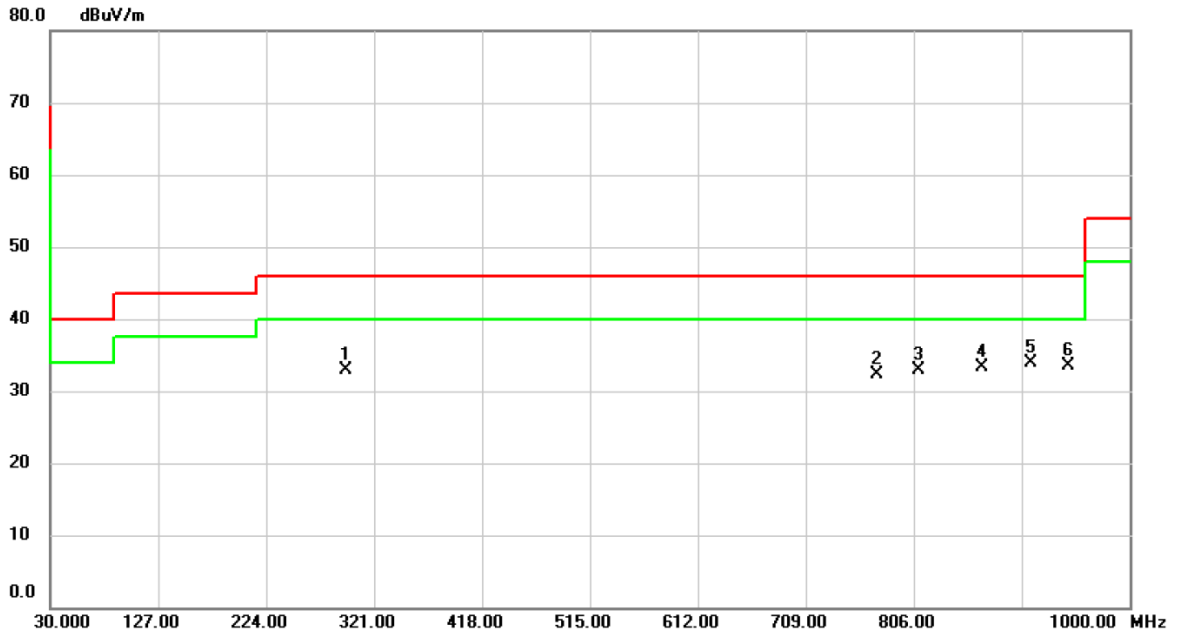
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.9700	36.31	-9.00	27.31	40.00	-12.69	peak	
2	*	295.7800	42.89	-7.44	35.45	46.00	-10.55	peak	
3		806.9700	29.48	2.92	32.40	46.00	-13.60	peak	
4		874.8700	29.21	4.01	33.22	46.00	-12.78	peak	
5		903.0000	28.95	4.56	33.51	46.00	-12.49	peak	
6		941.8000	29.91	4.96	34.87	46.00	-11.13	peak	

Test Mode: UNII-1/ TX AC80 Mode 5210MHz_With Pistol

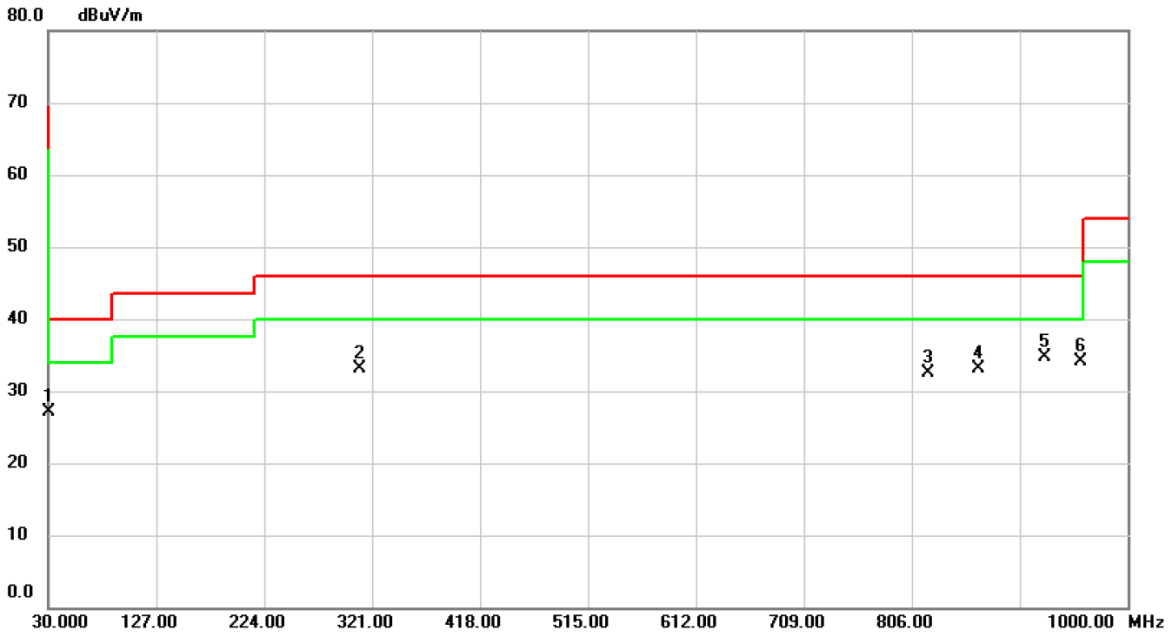
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		295.7800	40.29	-7.44	32.85	46.00	-13.15	peak	
2		773.0200	29.77	2.53	32.30	46.00	-13.70	peak	
3		810.8500	29.89	2.98	32.87	46.00	-13.13	peak	
4		867.1100	29.54	3.85	33.39	46.00	-12.61	peak	
5	*	911.7300	29.32	4.64	33.96	46.00	-12.04	peak	
6		944.7100	28.53	4.98	33.51	46.00	-12.49	peak	

Test Mode: UNII-1/ TX AC80 Mode 5290MHz_With Pistol

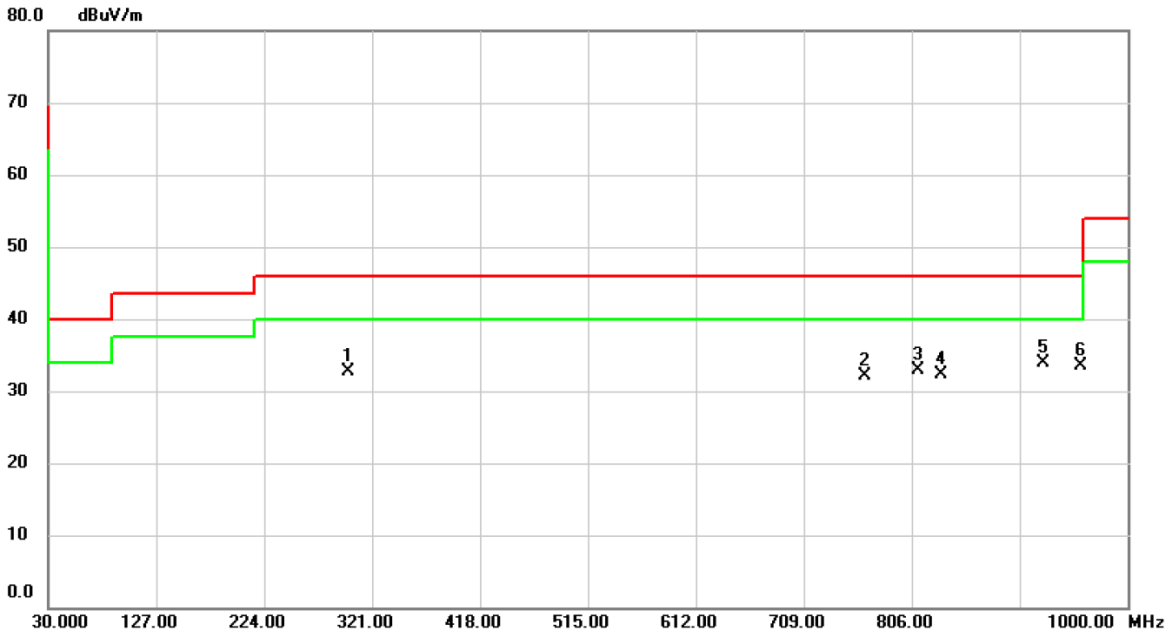
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.9700	36.03	-9.00	27.03	40.00	-12.97	peak	
2		310.3300	40.25	-7.07	33.18	46.00	-12.82	peak	
3		820.5500	29.49	3.11	32.60	46.00	-13.40	peak	
4		866.1400	29.20	3.84	33.04	46.00	-12.96	peak	
5	*	925.3100	29.96	4.79	34.75	46.00	-11.25	peak	
6		958.2900	28.92	5.24	34.16	46.00	-11.84	peak	

Test Mode: UNII-1/ TX AC80 Mode 5290MHz_With Pistol

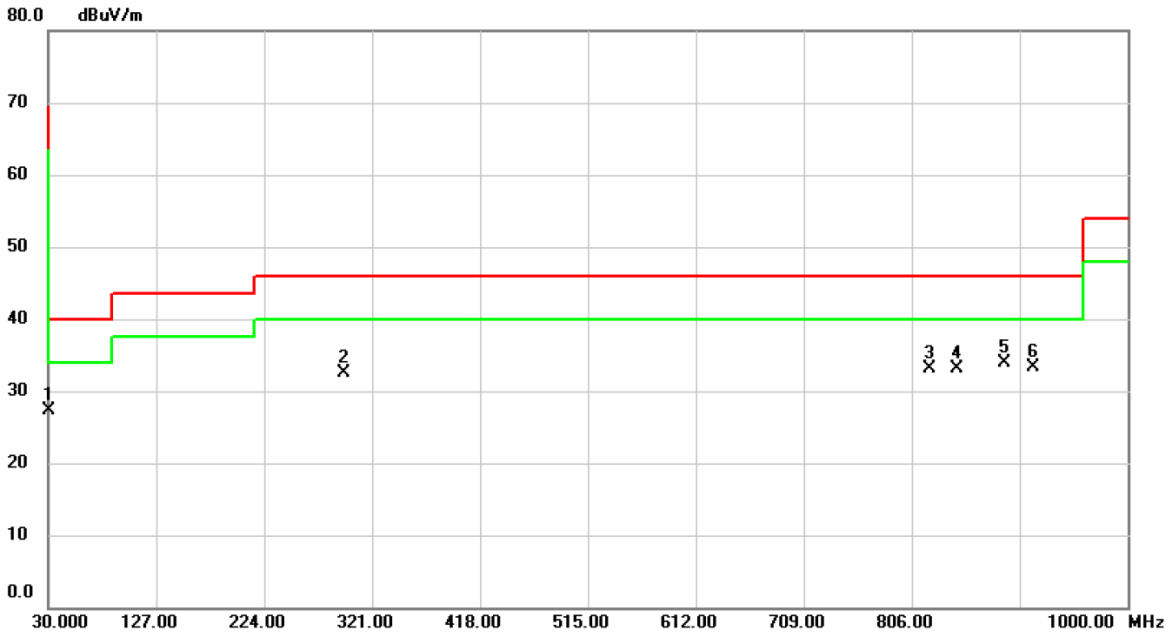
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		299.6600	40.05	-7.39	32.66	46.00	-13.34	peak	
2		763.3200	29.70	2.43	32.13	46.00	-13.87	peak	
3		811.8200	29.99	2.99	32.98	46.00	-13.02	peak	
4		832.1900	29.03	3.27	32.30	46.00	-13.70	peak	
5	*	924.3400	29.04	4.77	33.81	46.00	-12.19	peak	
6		957.3200	28.34	5.22	33.56	46.00	-12.44	peak	

Test Mode: UNII-2C/TX A Mode 5700MHz_With Pistol

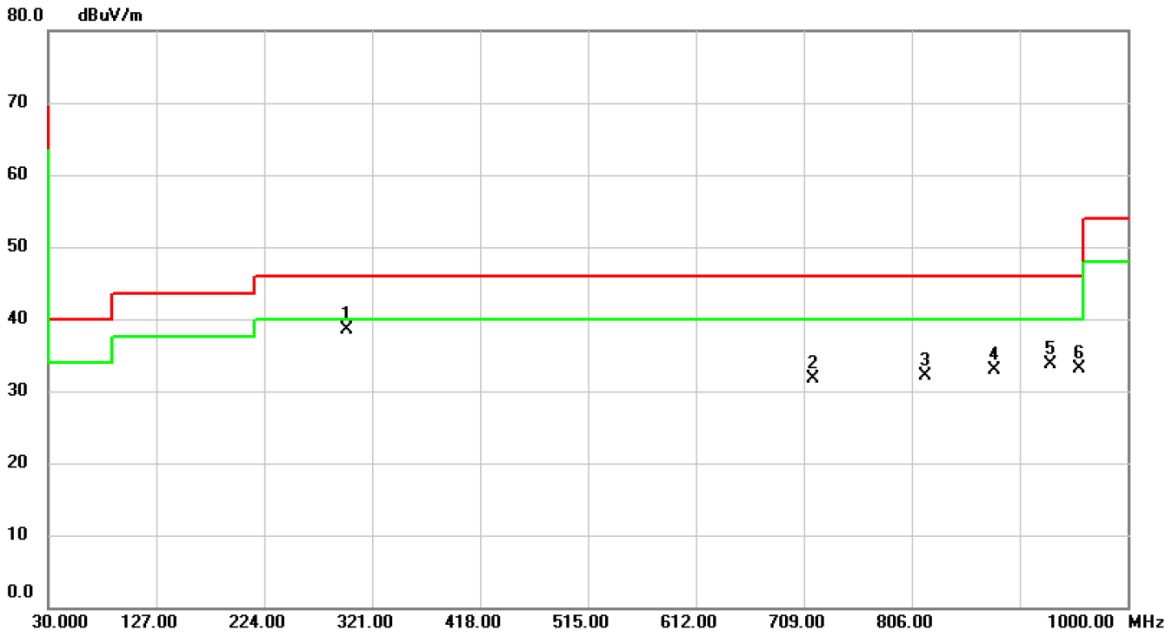
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.9700	36.36	-9.00	27.36	40.00	-12.64	peak	
2		295.7800	39.99	-7.44	32.55	46.00	-13.45	peak	
3		822.4900	29.92	3.13	33.05	46.00	-12.95	peak	
4		846.7400	29.58	3.48	33.06	46.00	-12.94	peak	
5	*	889.4200	29.66	4.31	33.97	46.00	-12.03	peak	
6		914.6400	28.62	4.67	33.29	46.00	-12.71	peak	

Test Mode: UNII-2C/TX A Mode 5700MHz_With Pistol

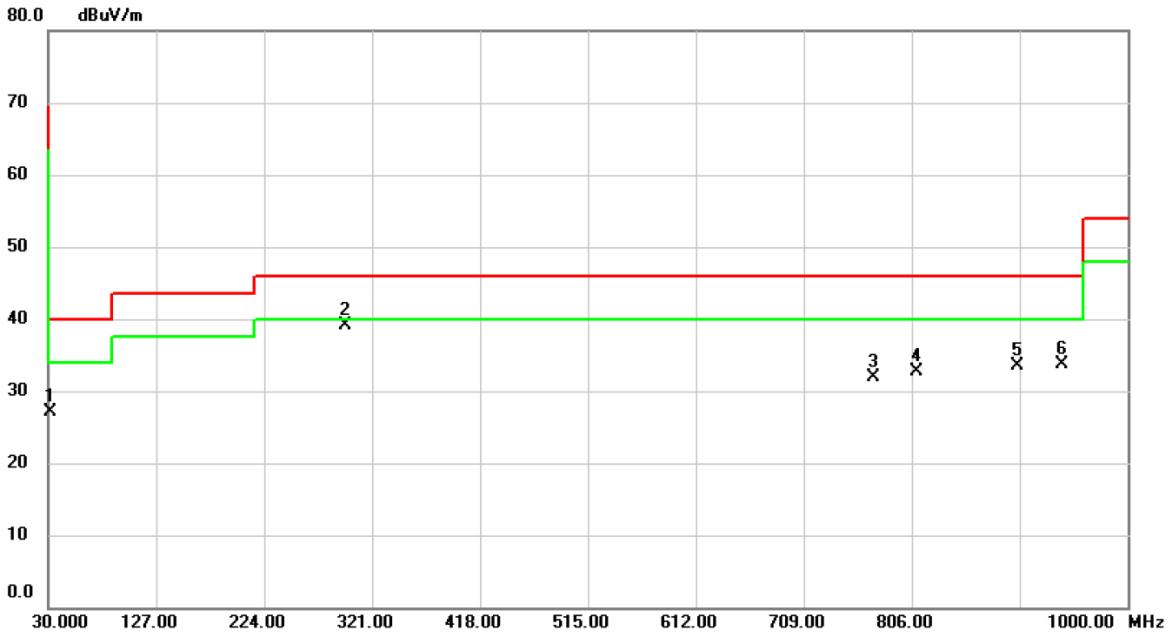
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	298.6900	45.83	-7.40	38.43	46.00	-7.57	peak	
2		716.7600	30.07	1.54	31.61	46.00	-14.39	peak	
3		817.6400	28.98	3.07	32.05	46.00	-13.95	peak	
4		880.6900	28.84	4.13	32.97	46.00	-13.03	peak	
5		931.1300	28.95	4.85	33.80	46.00	-12.20	peak	
6		956.3500	27.83	5.19	33.02	46.00	-12.98	peak	

Test Mode: UNII-3/TX A Mode 5825MHz_With Pistol

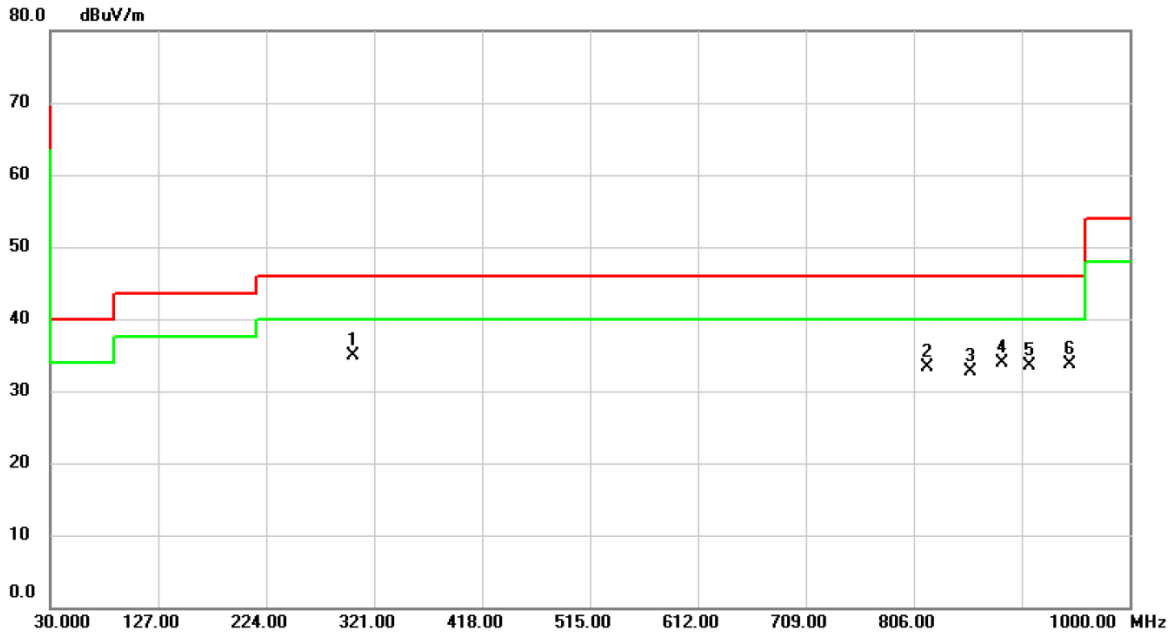
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		31.9400	36.39	-9.19	27.20	40.00	-12.80	peak	
2	*	296.7500	46.59	-7.43	39.16	46.00	-6.84	peak	
3		771.0800	29.48	2.52	32.00	46.00	-14.00	peak	
4		809.8800	29.81	2.96	32.77	46.00	-13.23	peak	
5		901.0600	29.03	4.53	33.56	46.00	-12.44	peak	
6		940.8300	28.75	4.94	33.69	46.00	-12.31	peak	

Test Mode: UNII-3/TX A Mode 5825MHz_With Pistol

Horizontal

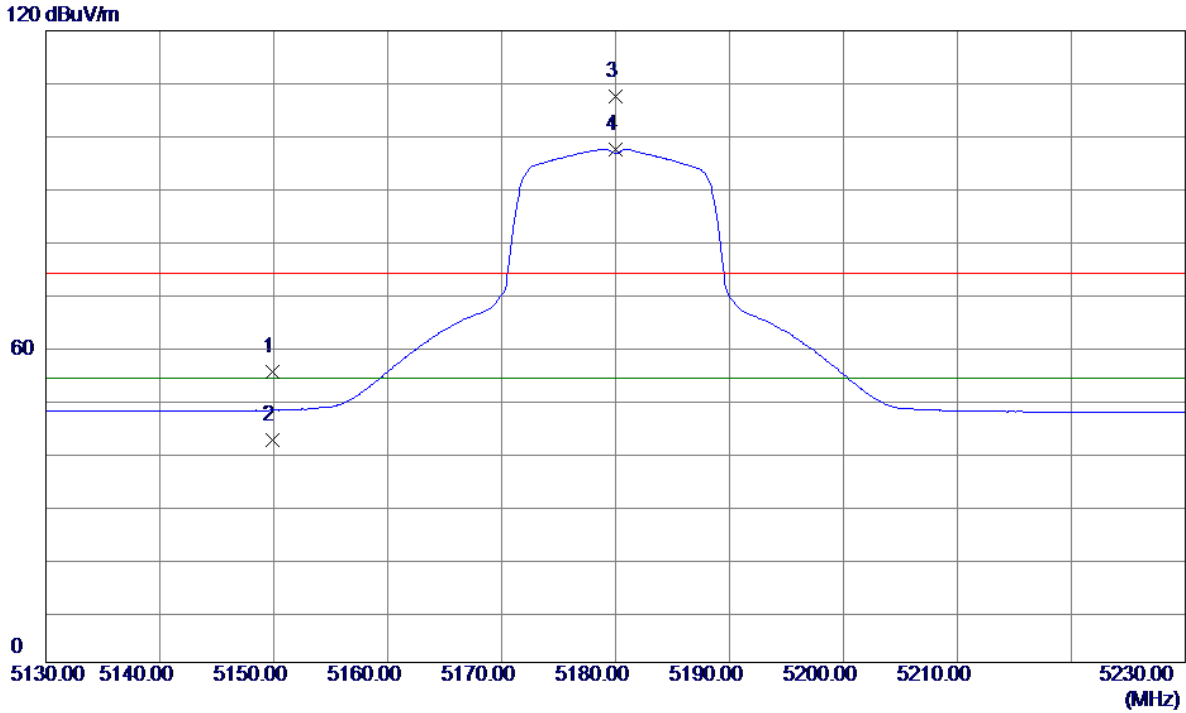


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	302.5700	42.24	-7.31	34.93	46.00	-11.07	peak	
2		817.6400	30.30	3.07	33.37	46.00	-12.63	peak	
3		856.4400	29.12	3.65	32.77	46.00	-13.23	peak	
4		885.5400	29.64	4.23	33.87	46.00	-12.13	peak	
5		909.7900	28.86	4.63	33.49	46.00	-12.51	peak	
6		945.6800	28.81	4.99	33.80	46.00	-12.20	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5180MHz_Without Pistol

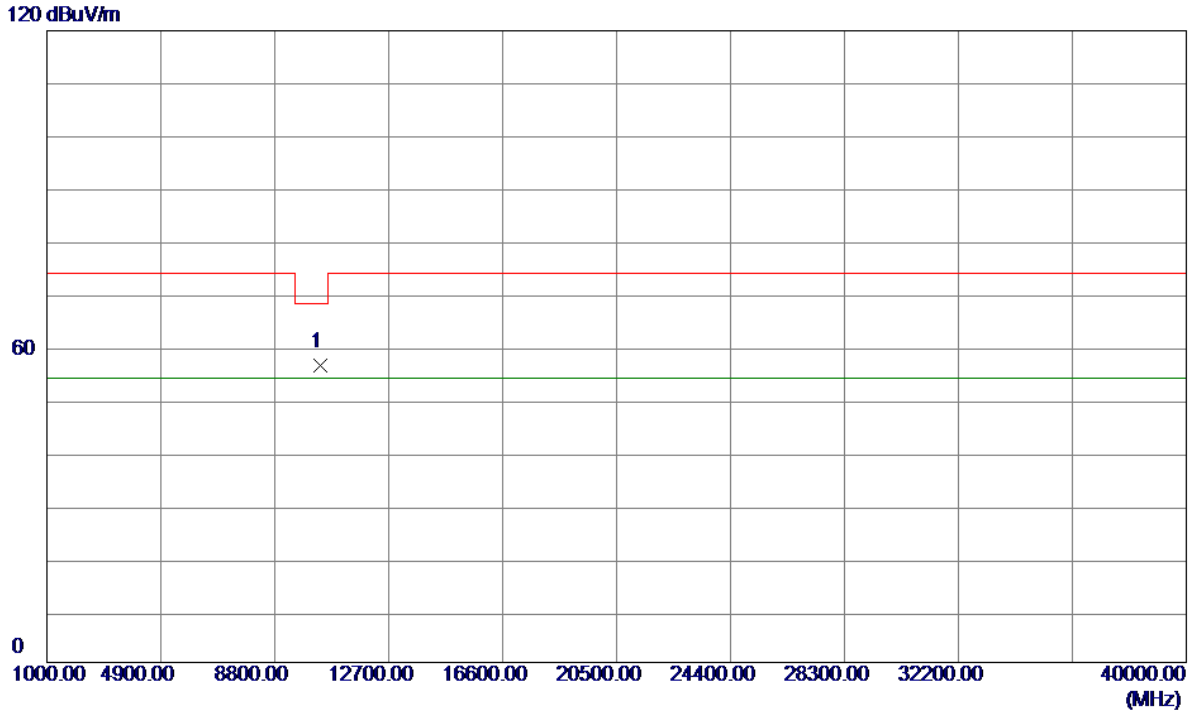
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5149.9200	17.78	37.47	55.25	74.00	-18.75	Peak	
2	5149.9200	4.88	37.47	42.35	54.00	-11.65	AVG	
3	5180.0000	69.97	37.51	107.48	74.00	33.48	Peak	No Limit
4 *	5180.0000	60.02	37.51	97.53	54.00	43.53	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5180MHz_Without Pistol

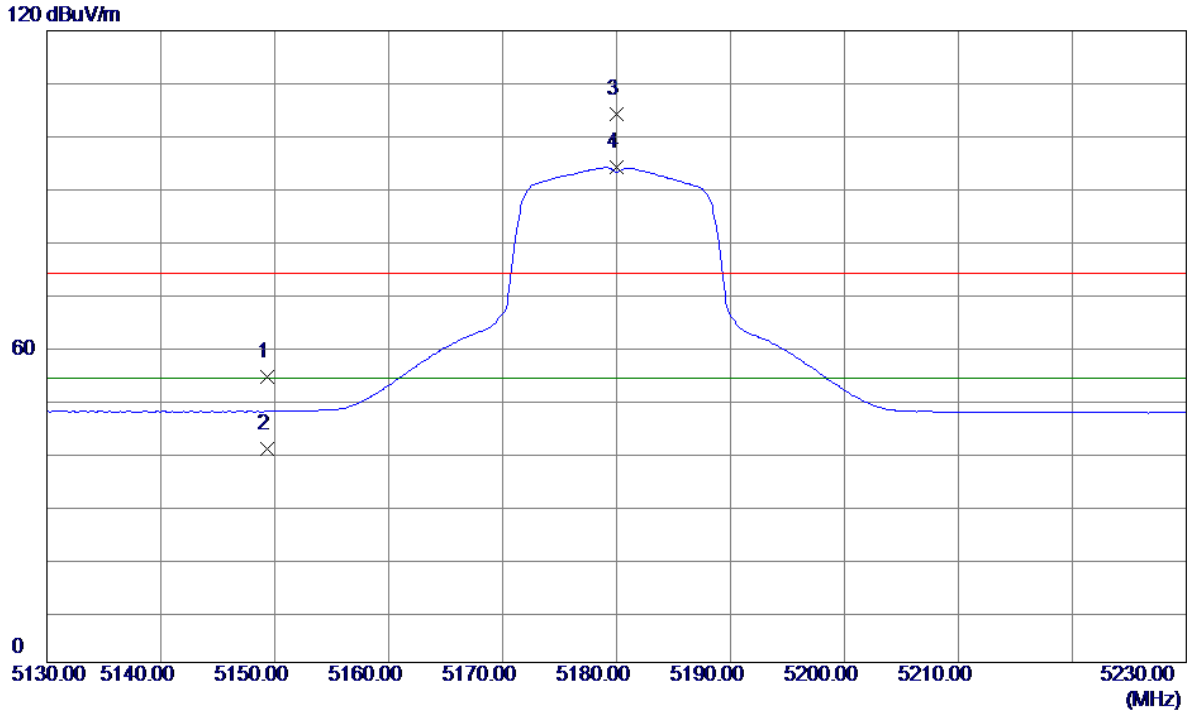
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.0000	54.42	1.86	56.28	68.20	-11.92	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5180MHz_Without Pistol

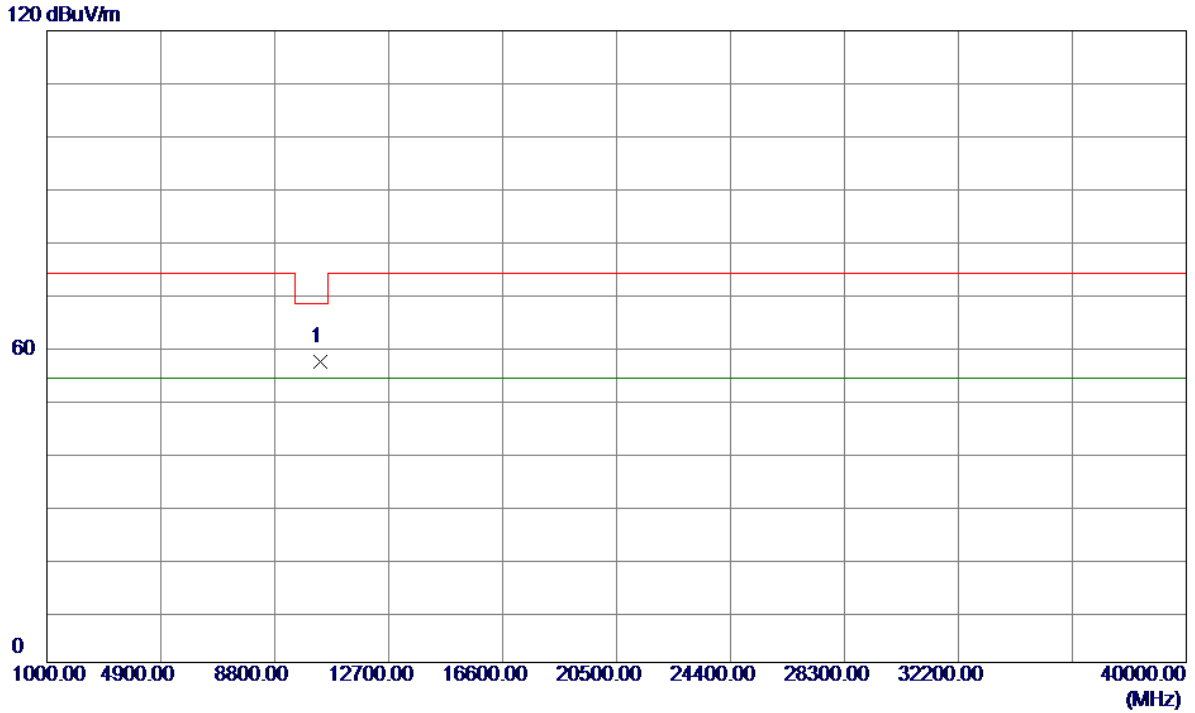
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5149.3600	16.76	37.47	54.23	74.00	-19.77	Peak	
2	5149.3600	3.11	37.47	40.58	54.00	-13.42	AVG	
3	5180.0000	66.54	37.51	104.05	74.00	30.05	Peak	No Limit
4 *	5180.0000	56.49	37.51	94.00	54.00	40.00	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5180MHz_Without Pistol

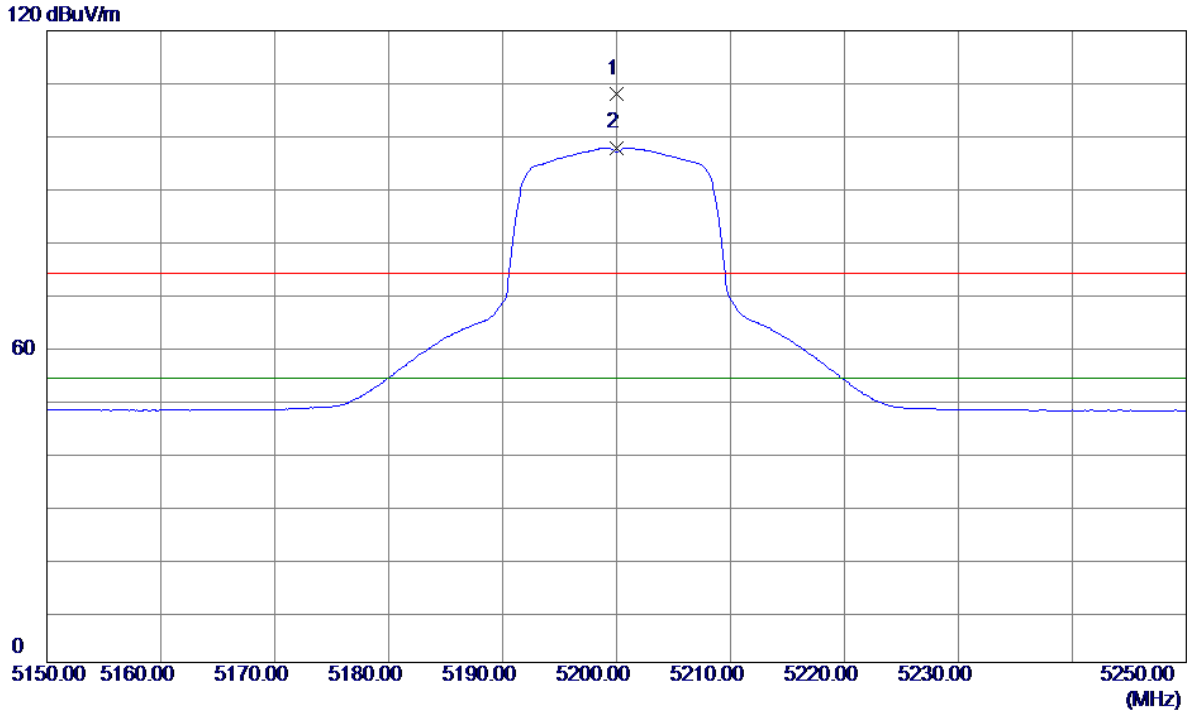
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.0000	55.15	1.86	57.01	68.20	-11.19	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5200MHz_Without Pistol

Vertical

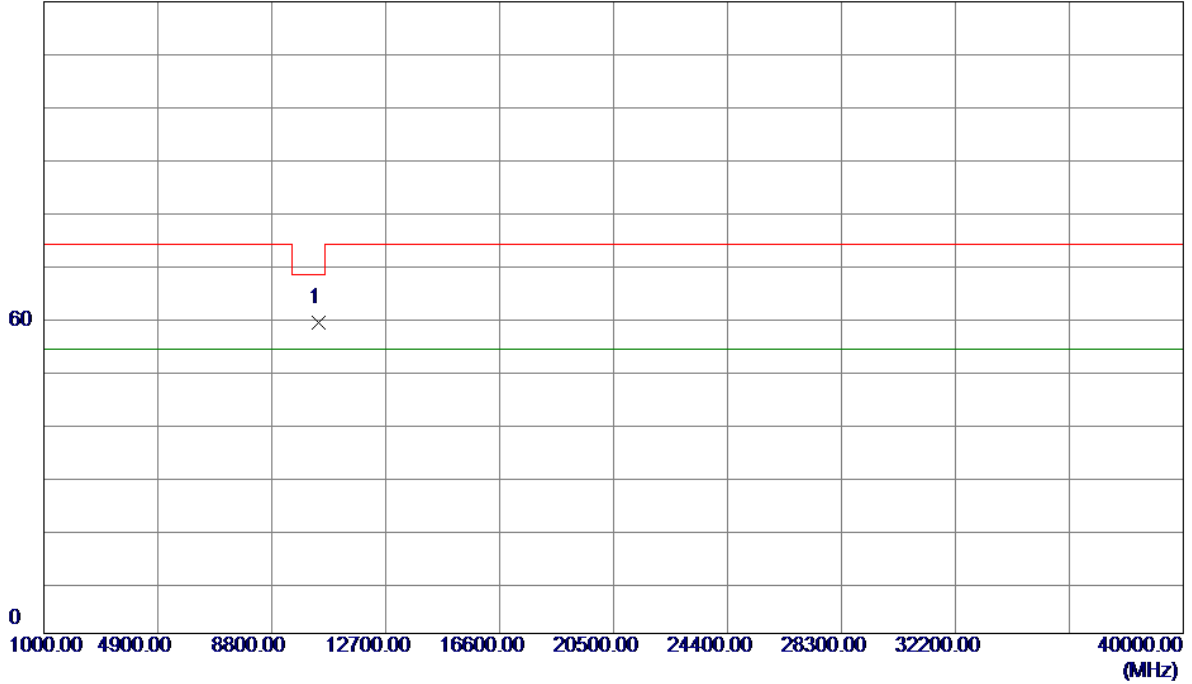


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5200.0000	70.36	37.54	107.90	74.00	33.90	Peak	No Limit
2 *	5200.0000	60.26	37.54	97.80	54.00	43.80	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5200MHz_Without Pistol

Vertical

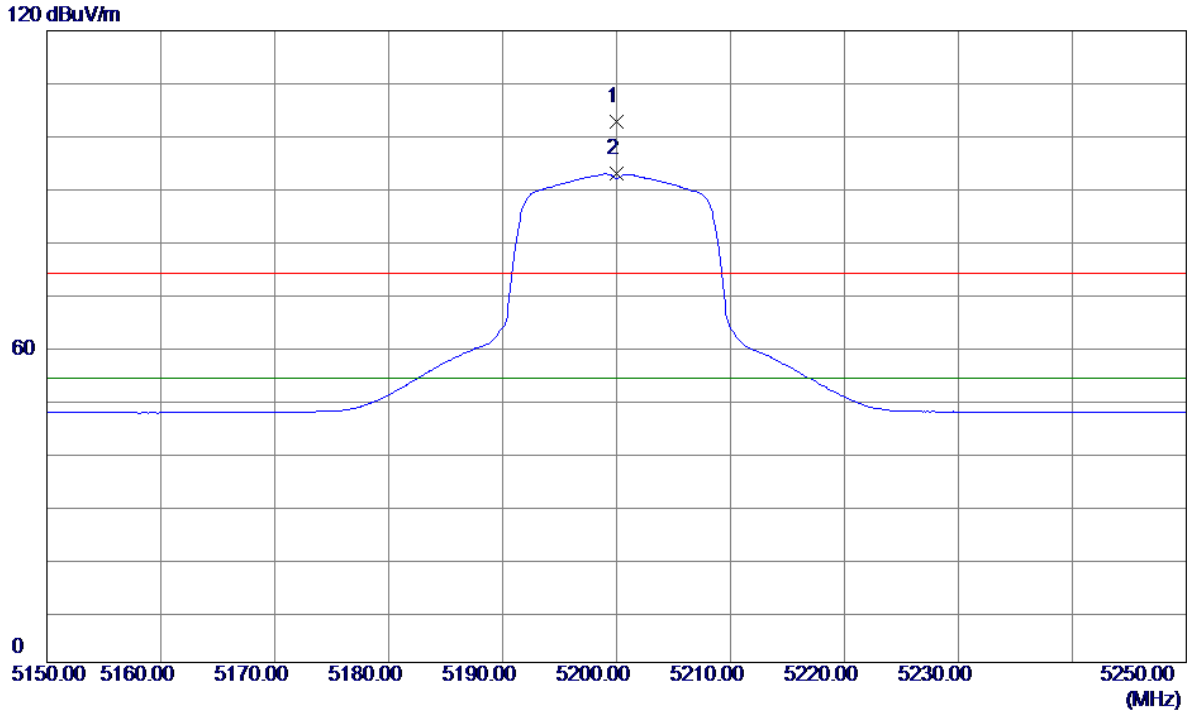
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.0000	57.28	1.86	59.14	68.20	-9.06	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5200MHz_Without Pistol

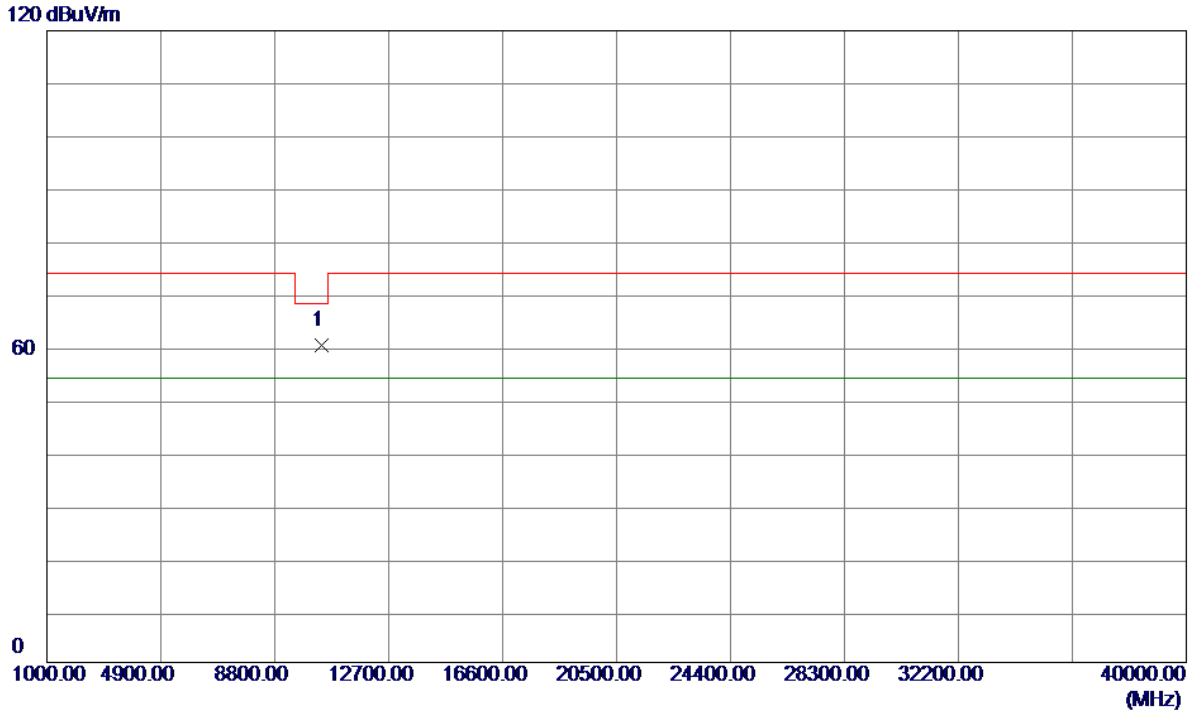
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5200.0000	65.22	37.54	102.76	74.00	28.76	Peak	No Limit
2 *	5200.0000	55.23	37.54	92.77	54.00	38.77	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5200MHz_Without Pistol

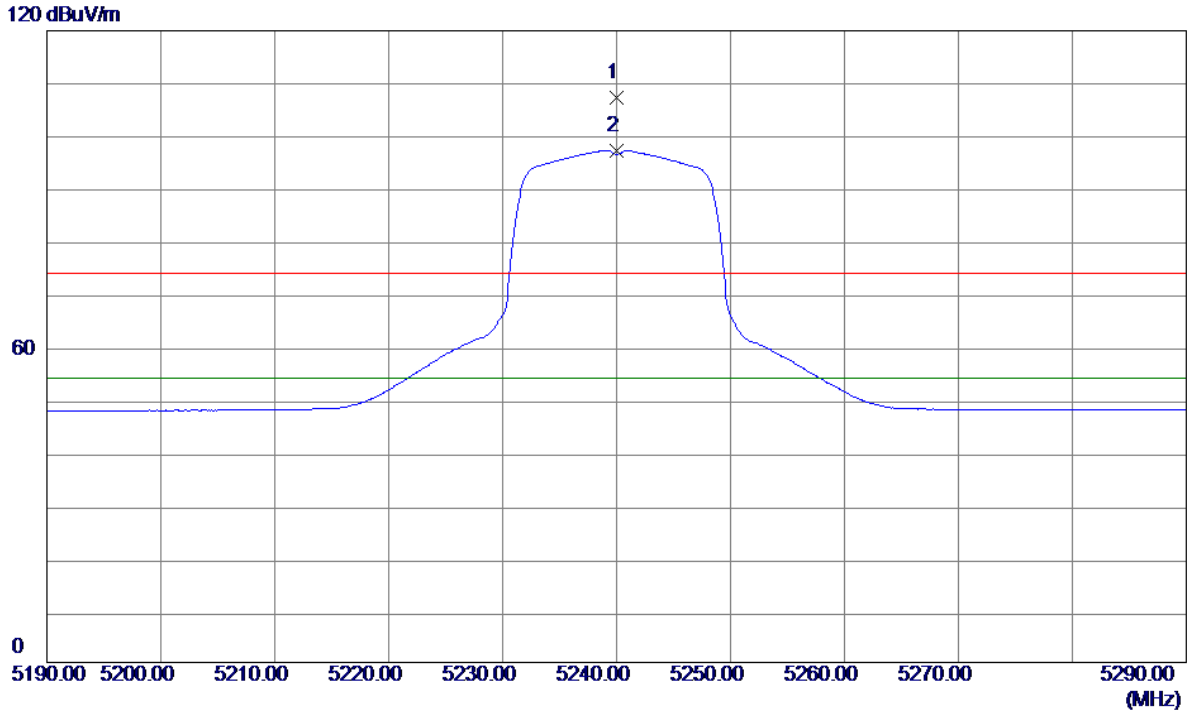
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.0000	58.27	1.86	60.13	68.20	-8.07	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5240MHz_Without Pistol

Vertical

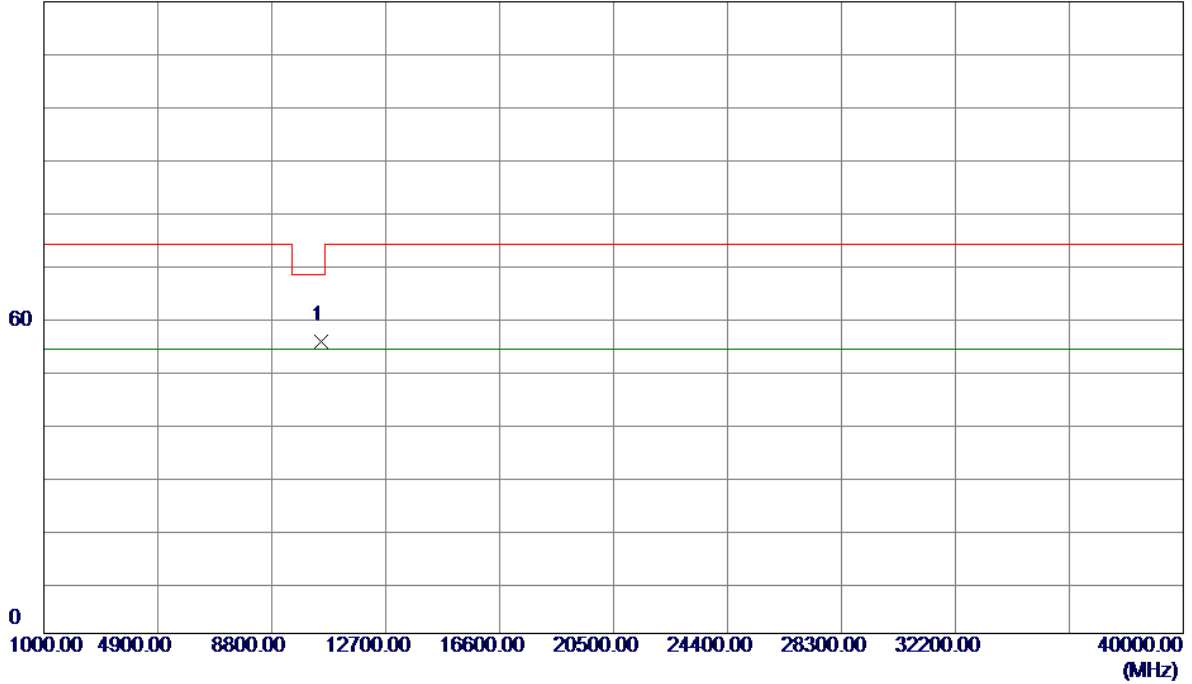


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5240.0000	69.60	37.59	107.19	74.00	33.19	Peak	No Limit
2 *	5240.0000	59.70	37.59	97.29	54.00	43.29	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5240MHz_Without Pistol

Vertical

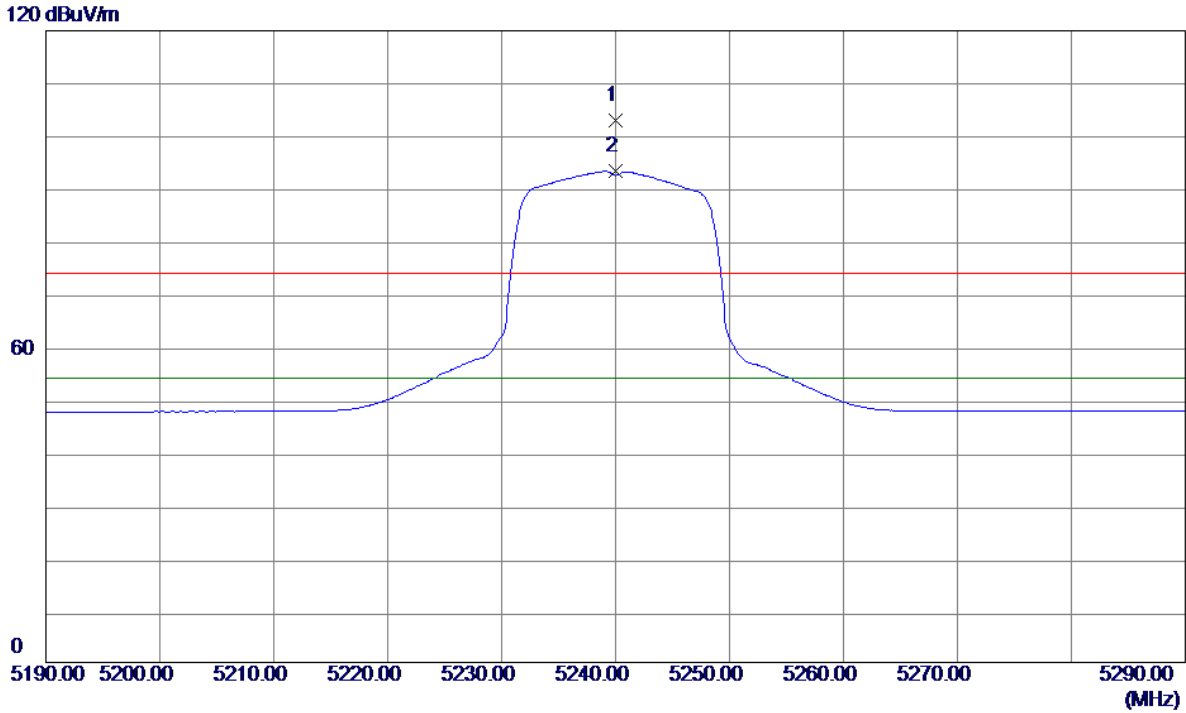
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.0000	53.69	1.87	55.56	68.20	-12.64	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5240MHz_Without Pistol

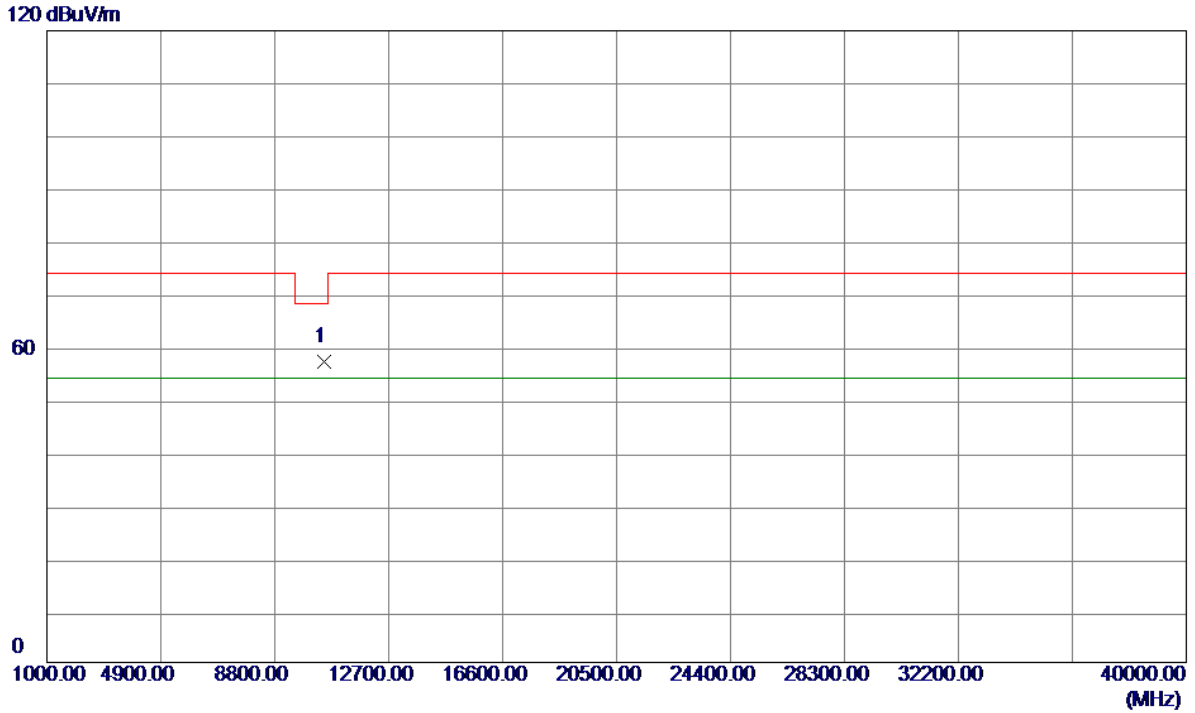
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5240.0000	65.47	37.59	103.06	74.00	29.06	Peak	No Limit
2 *	5240.0000	55.72	37.59	93.31	54.00	39.31	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX A Mode 5240MHz_Without Pistol

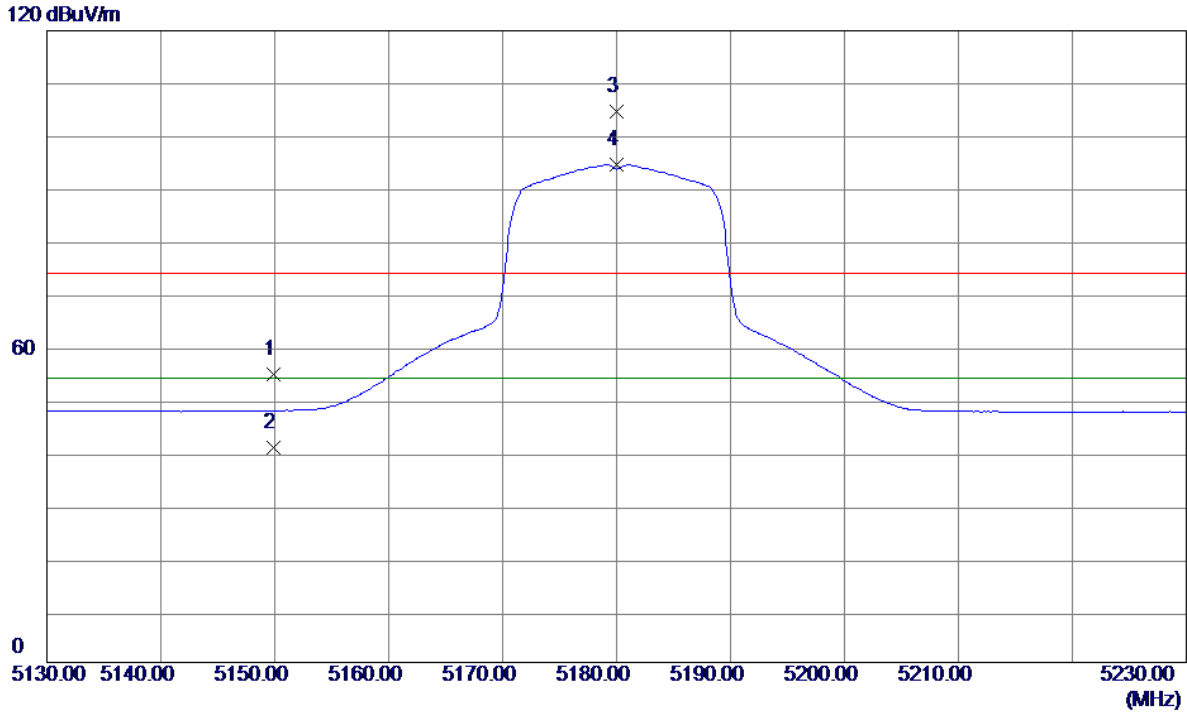
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.0000	55.18	1.87	57.05	68.20	-11.15	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5180MHz_Without Pistol

Vertical

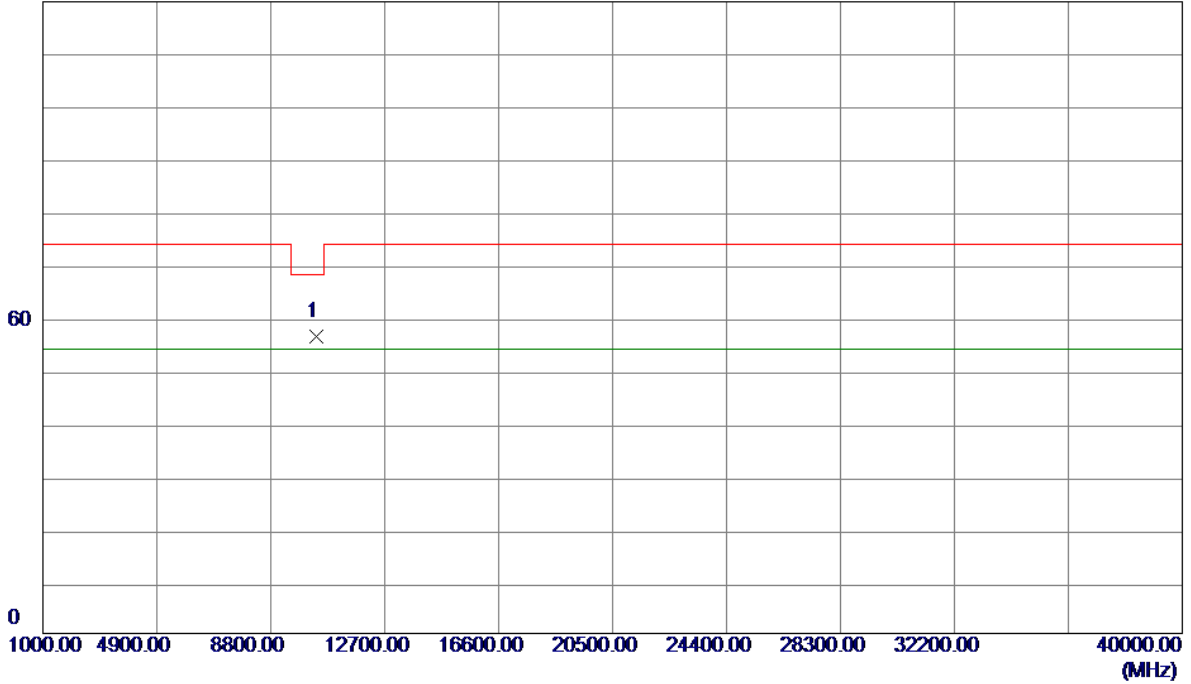


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5149.9200	17.26	37.47	54.73	74.00	-19.27	Peak	
2	5149.9200	3.40	37.47	40.87	54.00	-13.13	AVG	
3	5180.0000	67.24	37.51	104.75	74.00	30.75	Peak	No Limit
4 *	5180.0000	56.99	37.51	94.50	54.00	40.50	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5180MHz_Without Pistol

Vertical

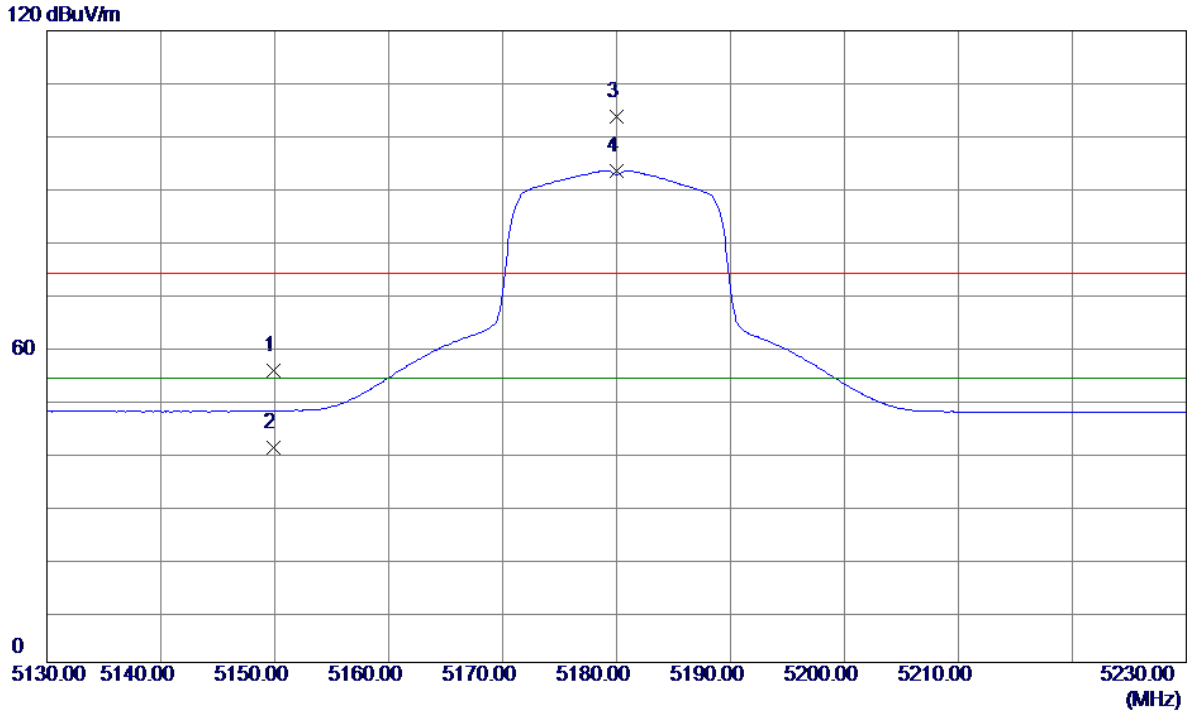
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.0000	54.58	1.86	56.44	68.20	-11.76	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5180MHz_Without Pistol

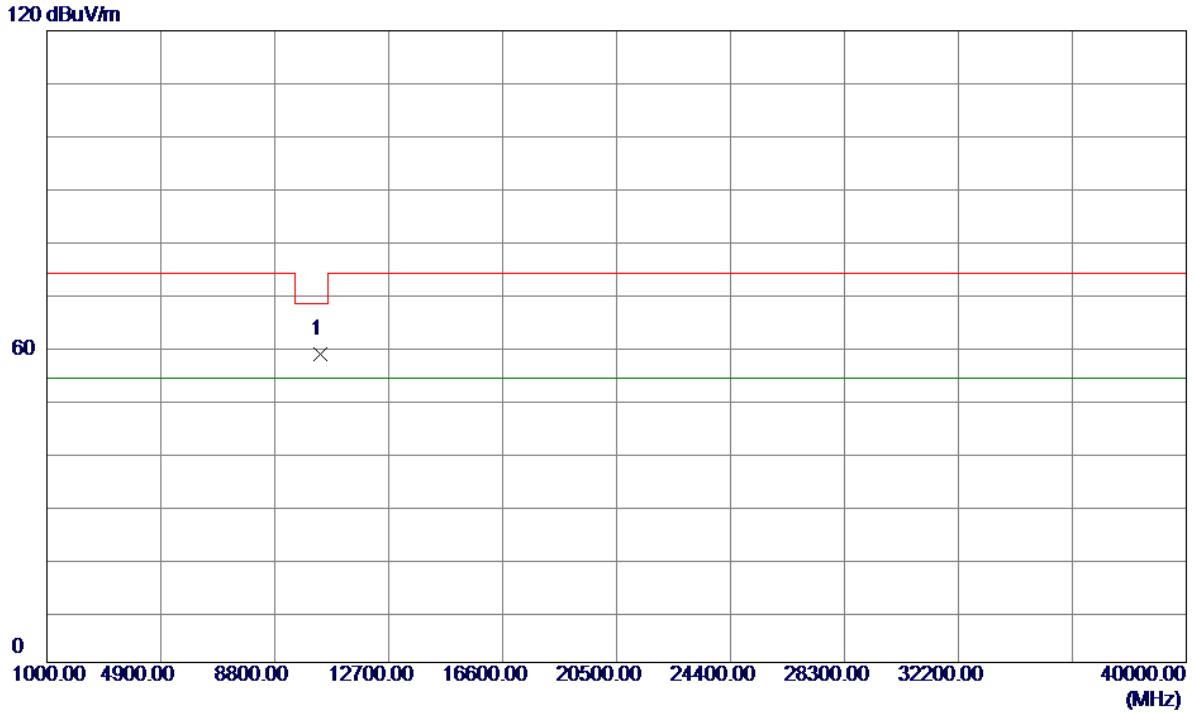
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5149.9400	17.95	37.47	55.42	74.00	-18.58	Peak	
2	5149.9400	3.42	37.47	40.89	54.00	-13.11	AVG	
3	5180.0000	66.25	37.51	103.76	74.00	29.76	Peak	No Limit
4 *	5180.0000	55.92	37.51	93.43	54.00	39.43	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5180MHz_Without Pistol

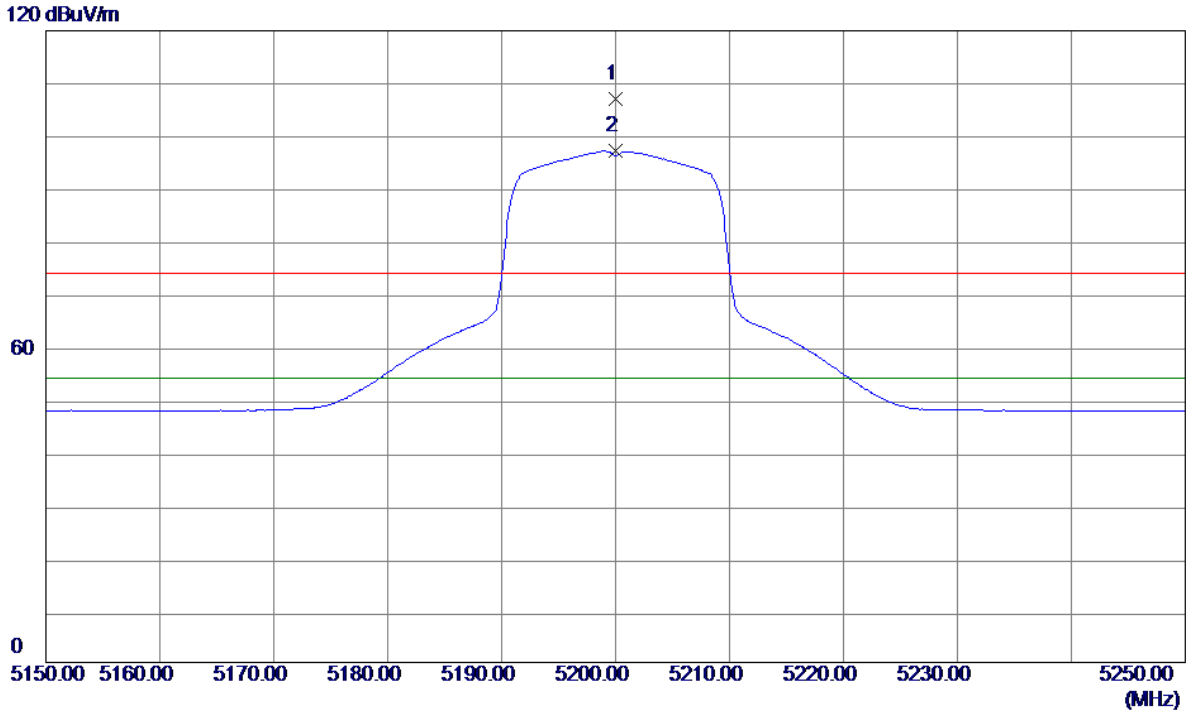
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.0000	56.80	1.86	58.66	68.20	-9.54	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5200MHz_Without Pistol

Vertical

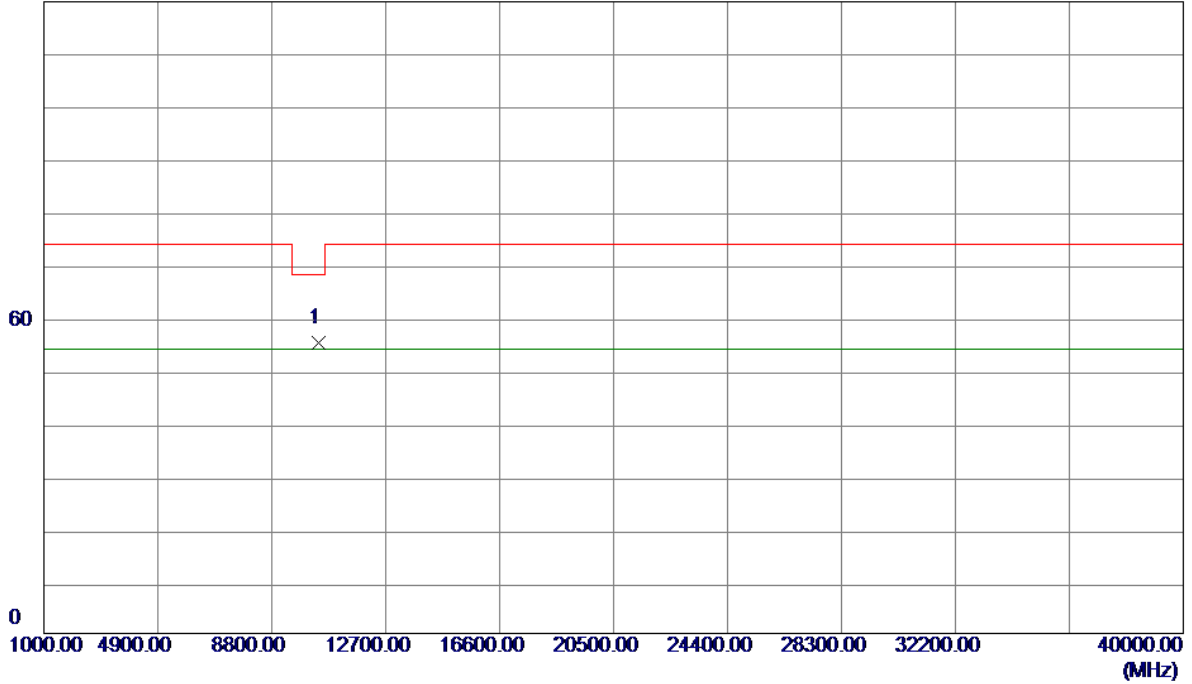


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5200.0000	69.49	37.54	107.03	74.00	33.03	Peak	No Limit
2 *	5200.0000	59.58	37.54	97.12	54.00	43.12	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5200MHz_Without Pistol

Vertical

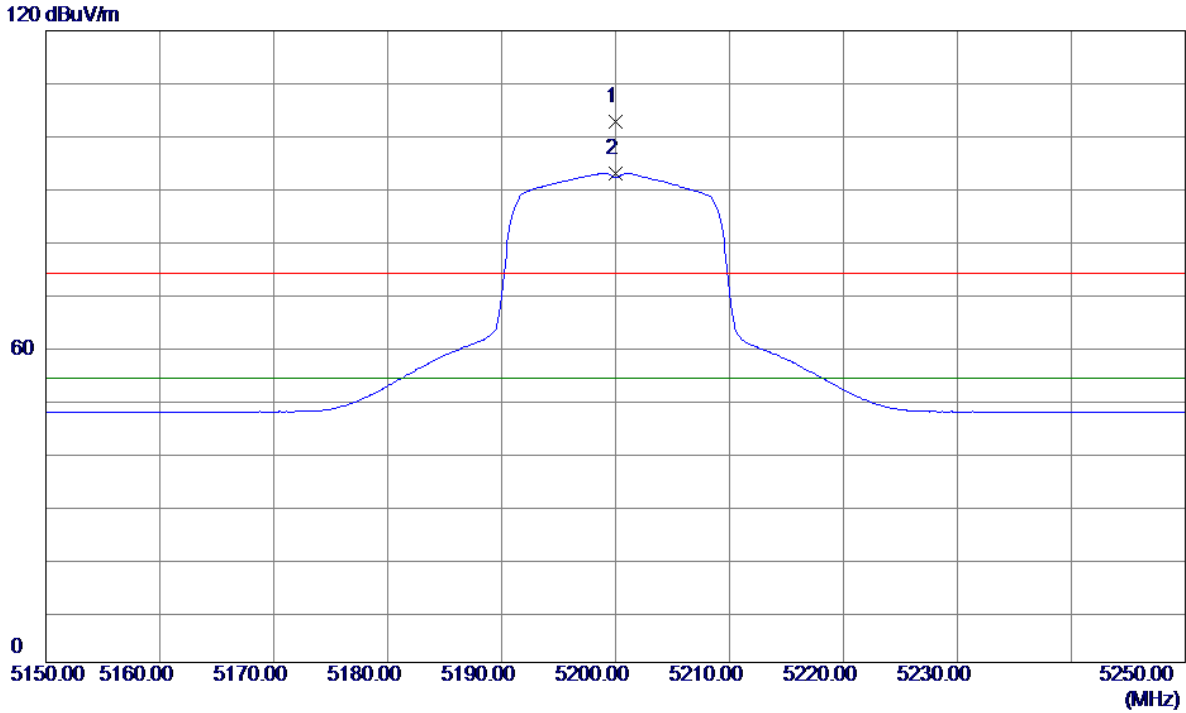
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.0000	53.28	1.86	55.14	68.20	-13.06	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5200MHz_Without Pistol

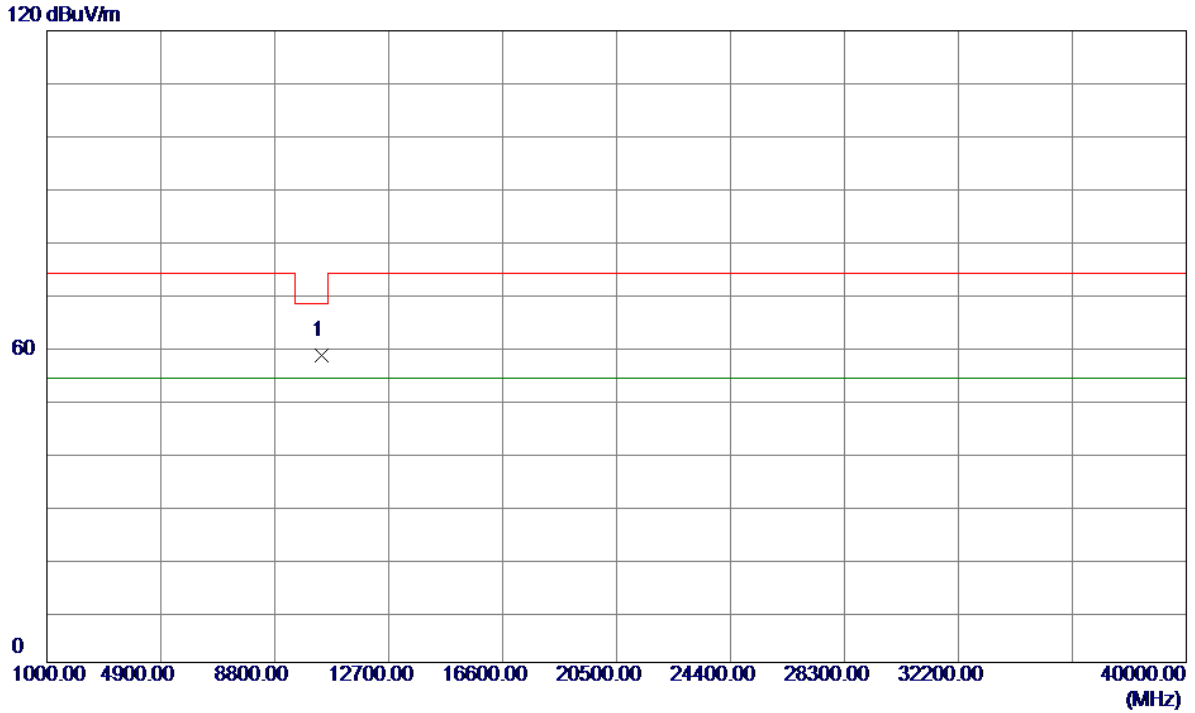
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5200.0000	65.20	37.54	102.74	74.00	28.74	Peak	No Limit
2 *	5200.0000	55.37	37.54	92.91	54.00	38.91	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5200MHz_Without Pistol

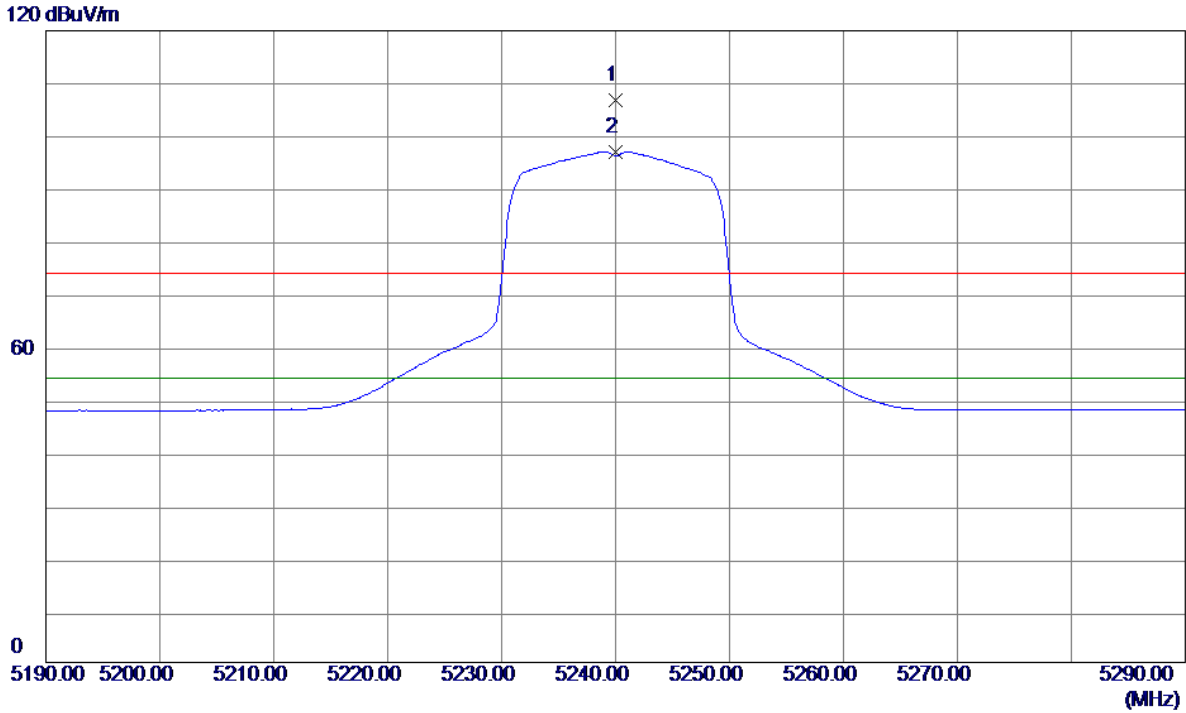
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.0000	56.49	1.86	58.35	68.20	-9.85	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5240MHz_Without Pistol

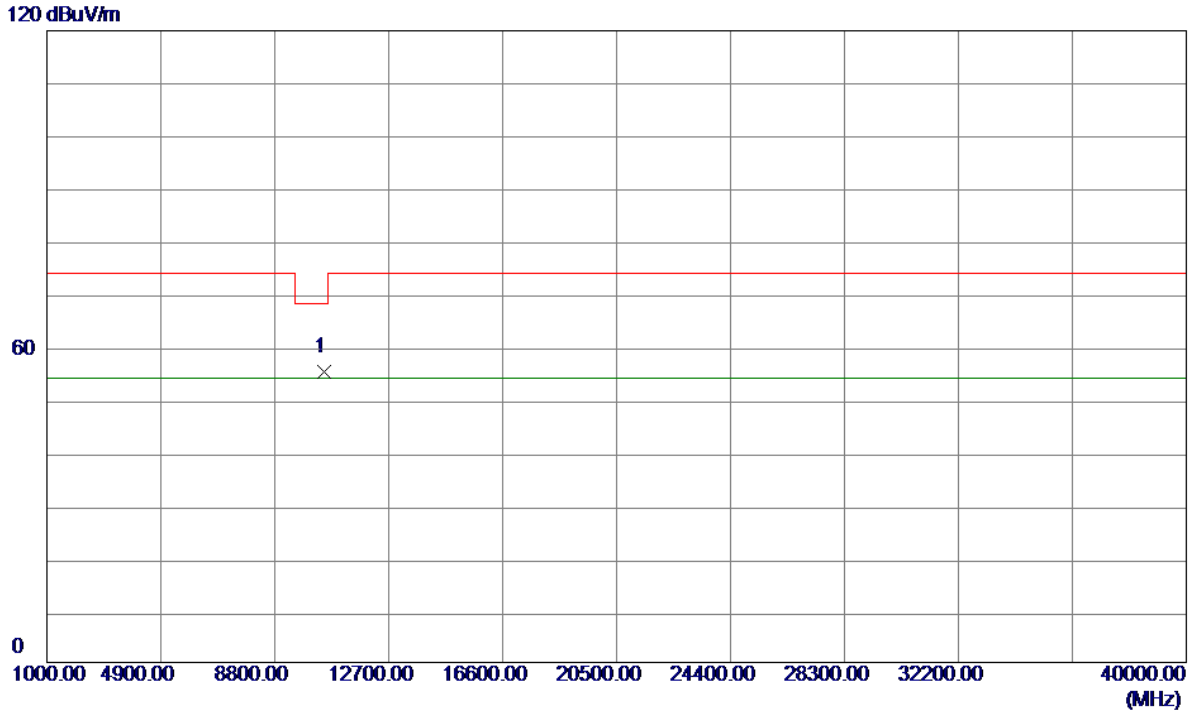
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5240.0000	69.12	37.59	106.71	74.00	32.71	Peak	No Limit
2 *	5240.0000	59.44	37.59	97.03	54.00	43.03	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5240MHz_Without Pistol

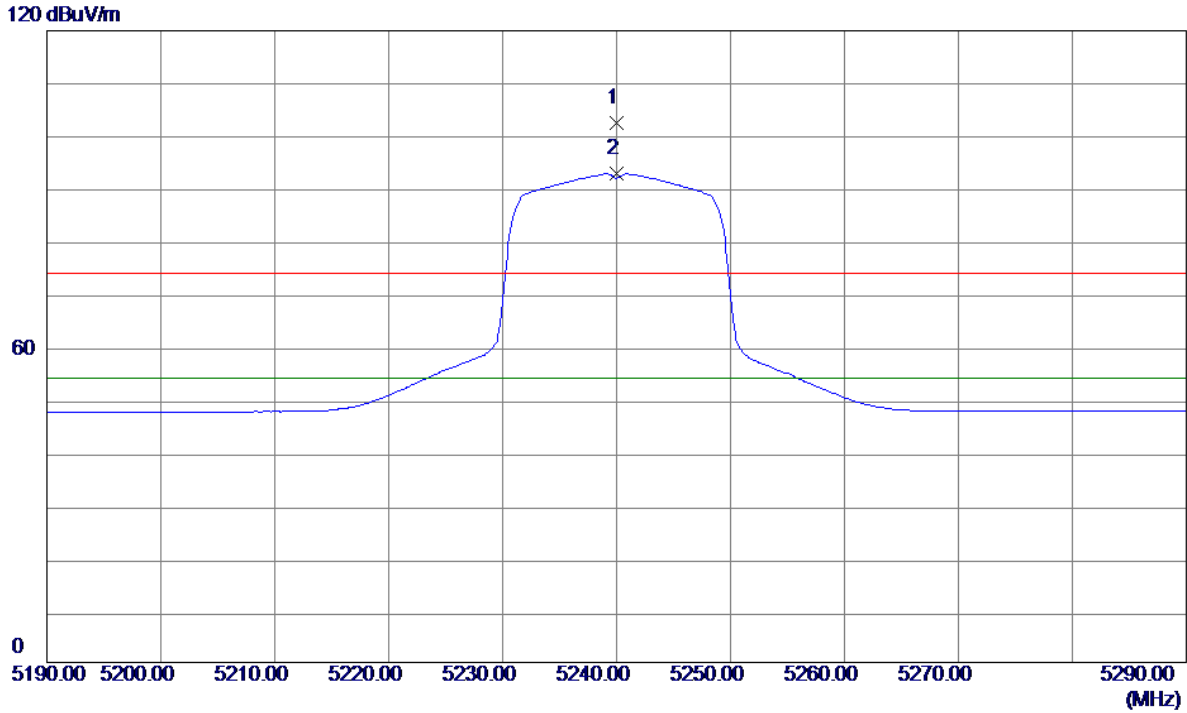
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.0000	53.31	1.87	55.18	68.20	-13.02	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5240MHz_Without Pistol

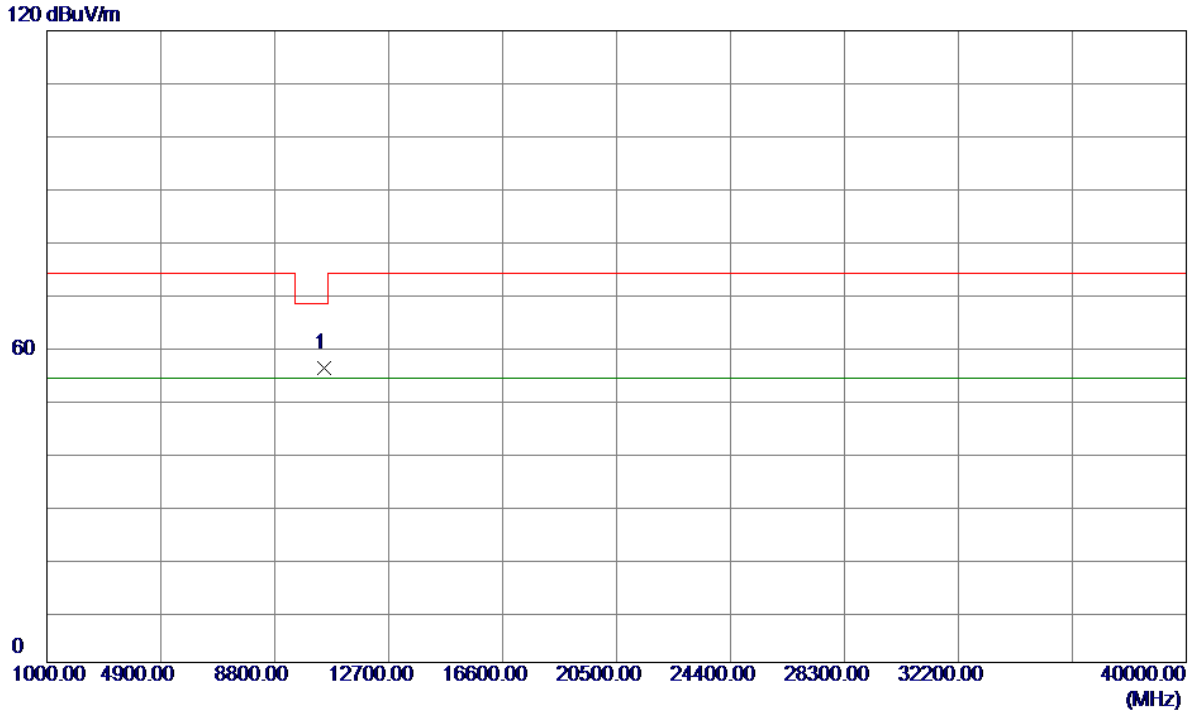
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5240.0000	64.88	37.59	102.47	74.00	28.47	Peak	No Limit
2 *	5240.0000	55.23	37.59	92.82	54.00	38.82	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N20 Mode 5240MHz_Without Pistol

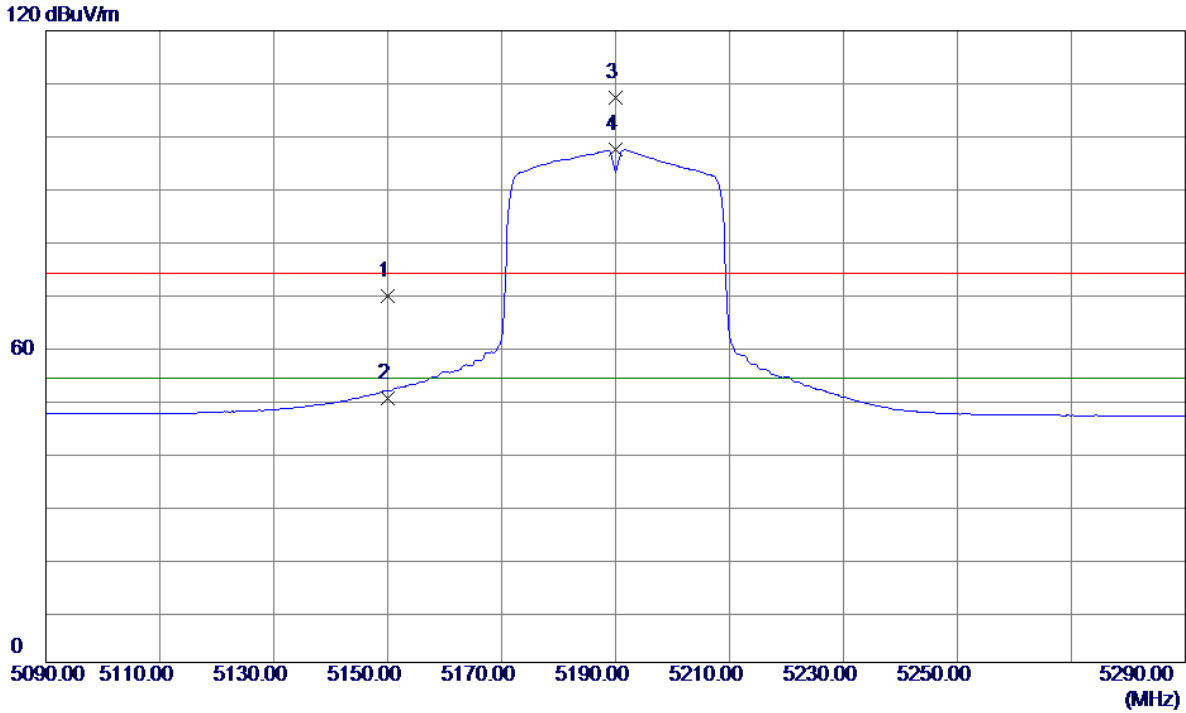
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.0000	54.05	1.87	55.92	68.20	-12.28	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5190MHz_Without Pistol

Vertical

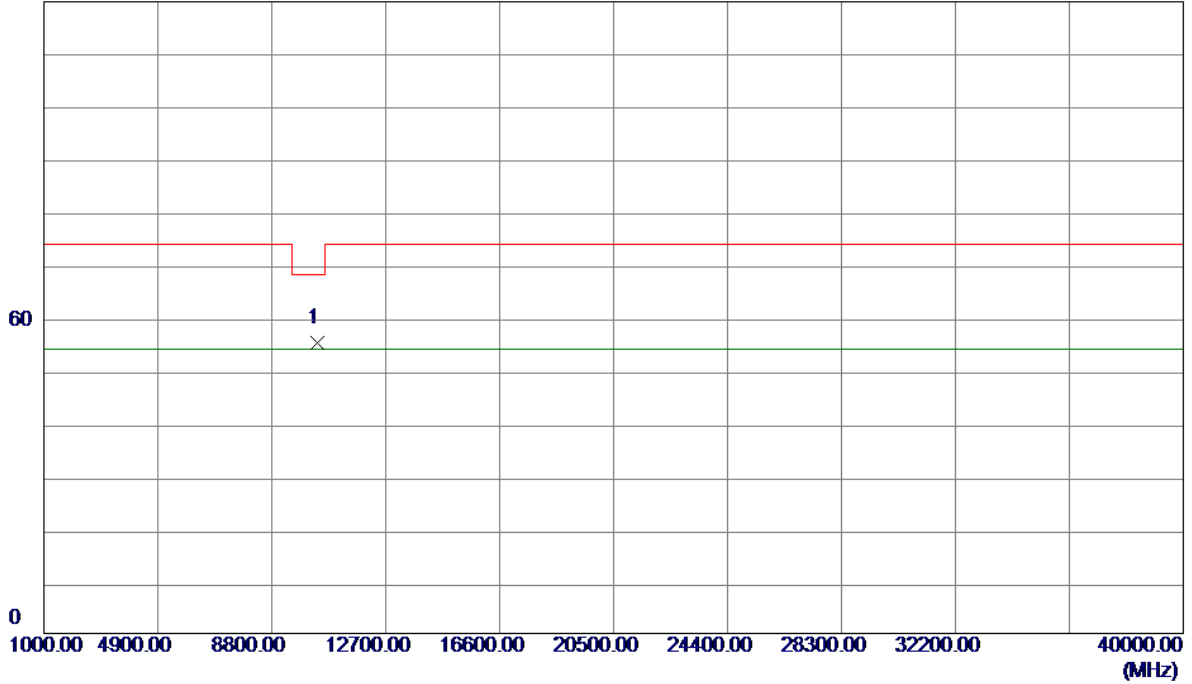


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	32.21	37.47	69.68	74.00	-4.32	Peak	
2	5150.0000	12.64	37.47	50.11	54.00	-3.89	AVG	
3	5190.0000	69.83	37.52	107.35	74.00	33.35	Peak	No Limit
4 *	5190.0000	59.81	37.52	97.33	54.00	43.33	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5190MHz_Without Pistol

Vertical

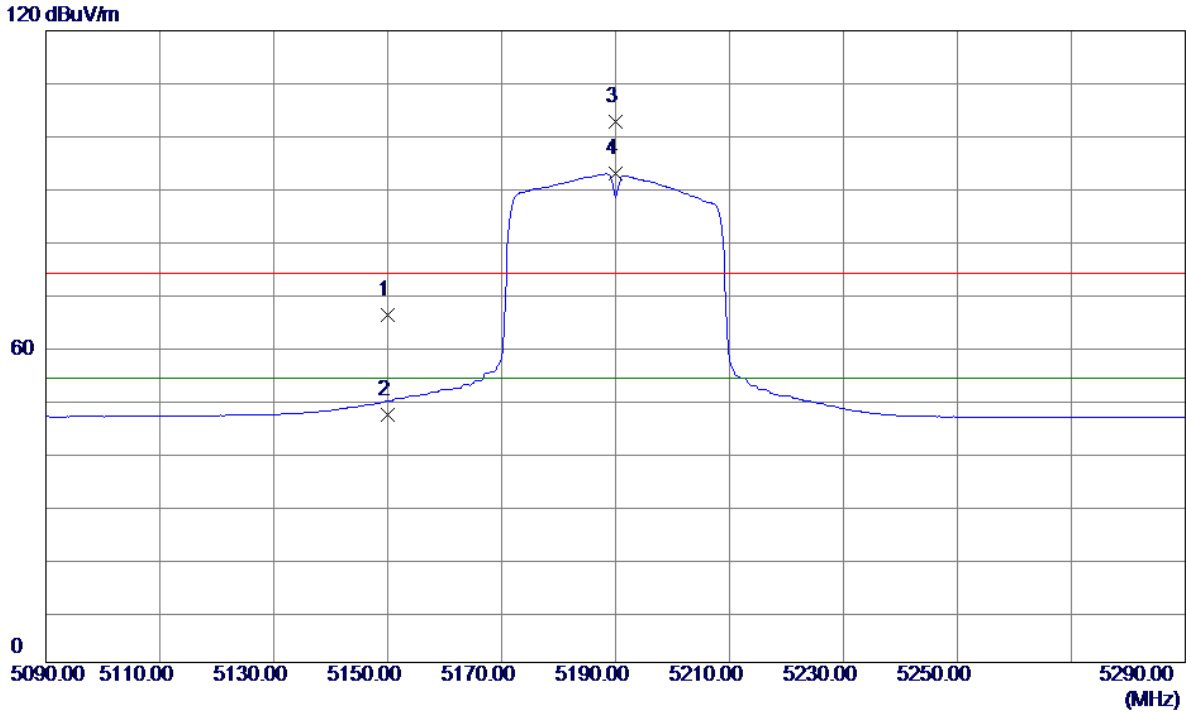
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10380.0000	53.27	1.86	55.13	68.20	-13.07	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5190MHz_Without Pistol

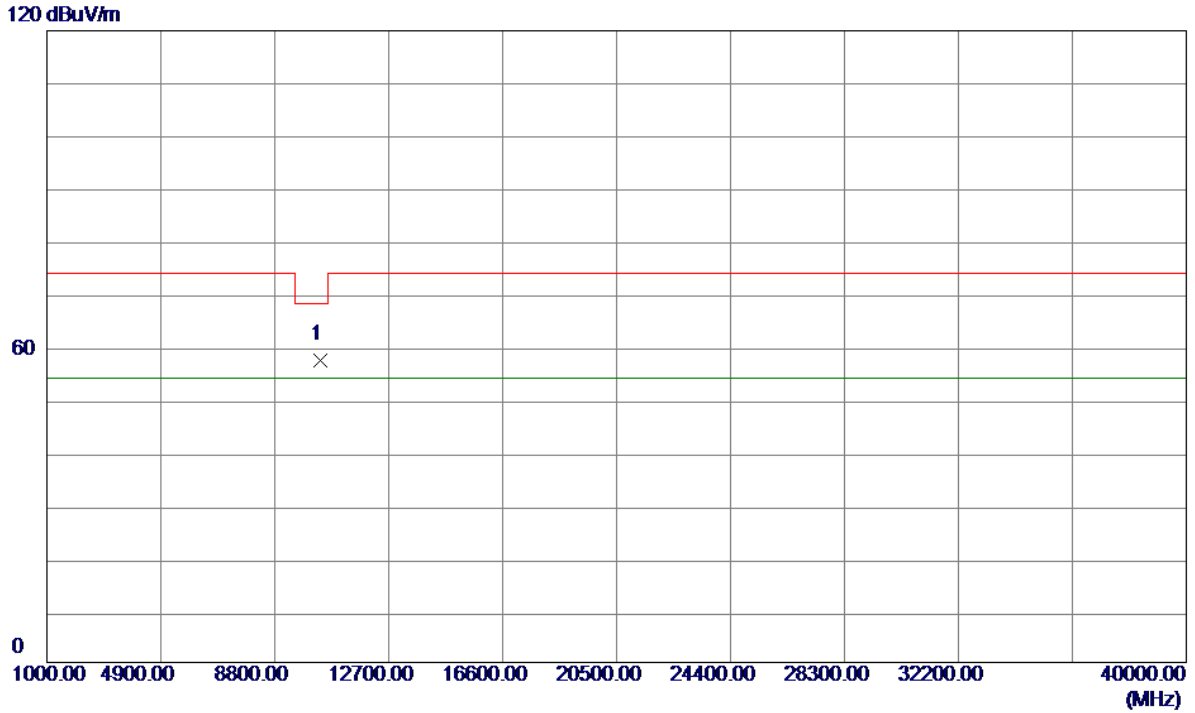
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	28.57	37.47	66.04	74.00	-7.96	Peak	
2	5150.0000	9.48	37.47	46.95	54.00	-7.05	AVG	
3	5190.0000	65.27	37.52	102.79	74.00	28.79	Peak	No Limit
4 *	5190.0000	55.26	37.52	92.78	54.00	38.78	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5190MHz_Without Pistol

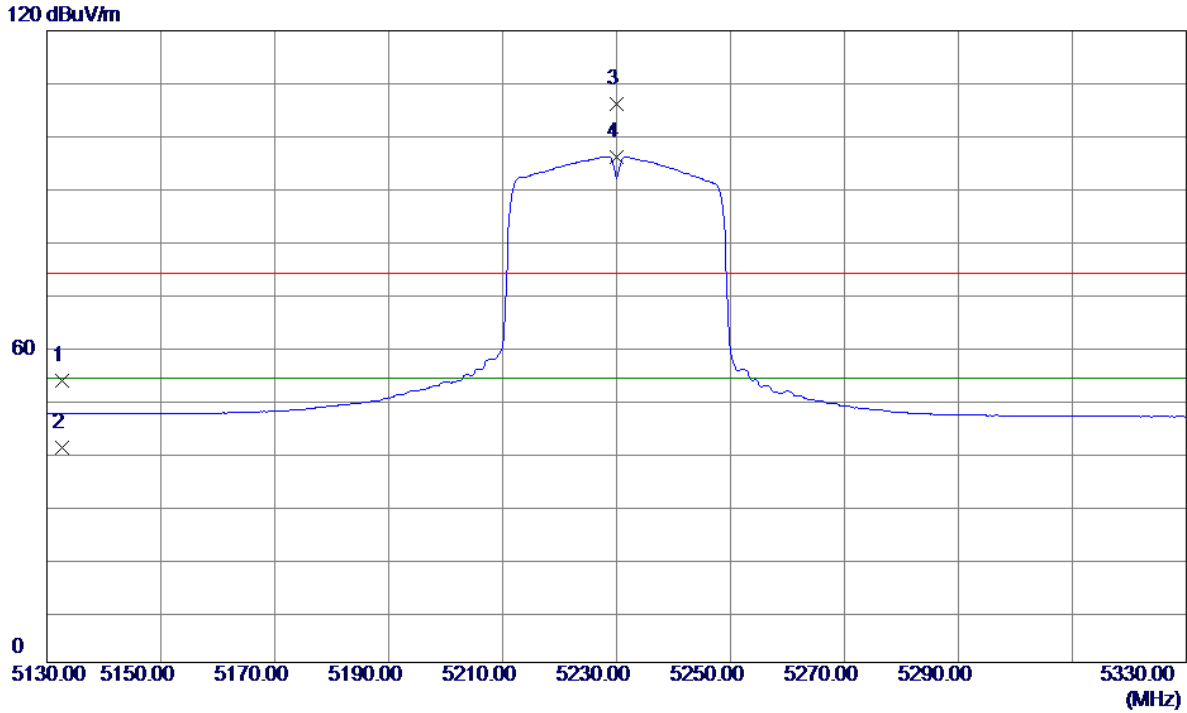
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10380.0000	55.62	1.86	57.48	68.20	-10.72	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5230MHz_Without Pistol

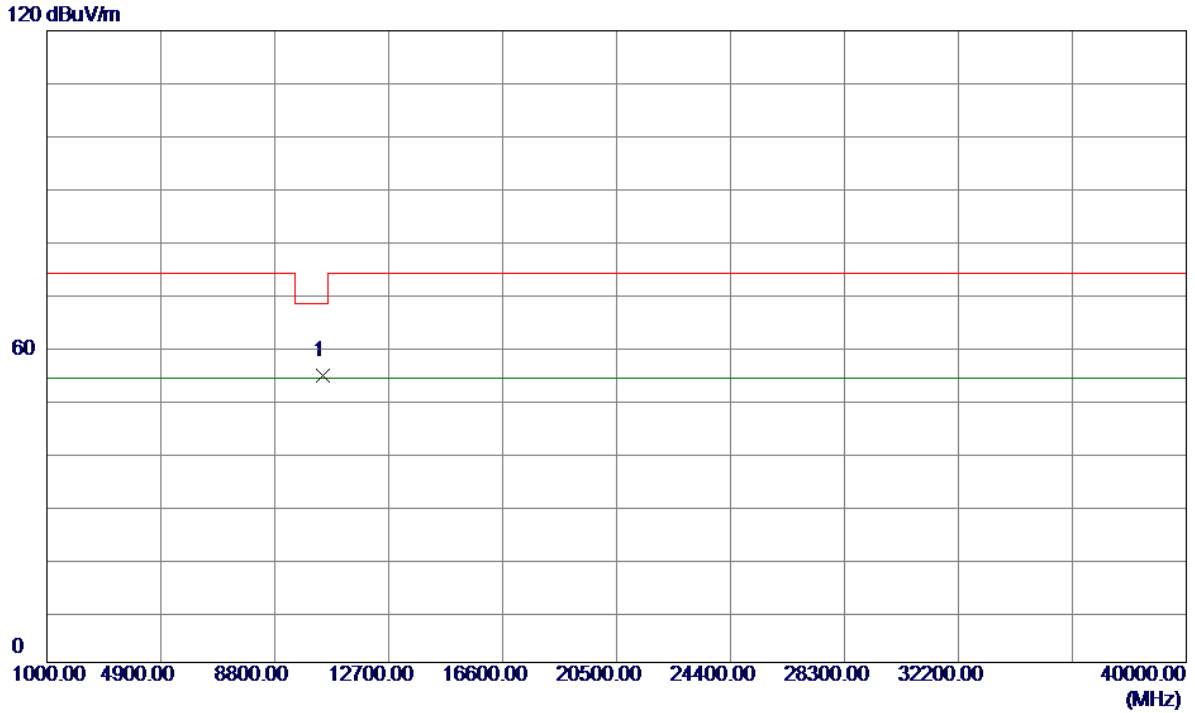
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5132.7400	16.09	37.45	53.54	74.00	-20.46	Peak	
2	5132.7400	3.26	37.45	40.71	54.00	-13.29	AVG	
3	5230.0000	68.57	37.57	106.14	74.00	32.14	Peak	No Limit
4 *	5230.0000	58.51	37.57	96.08	54.00	42.08	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5230MHz_Without Pistol

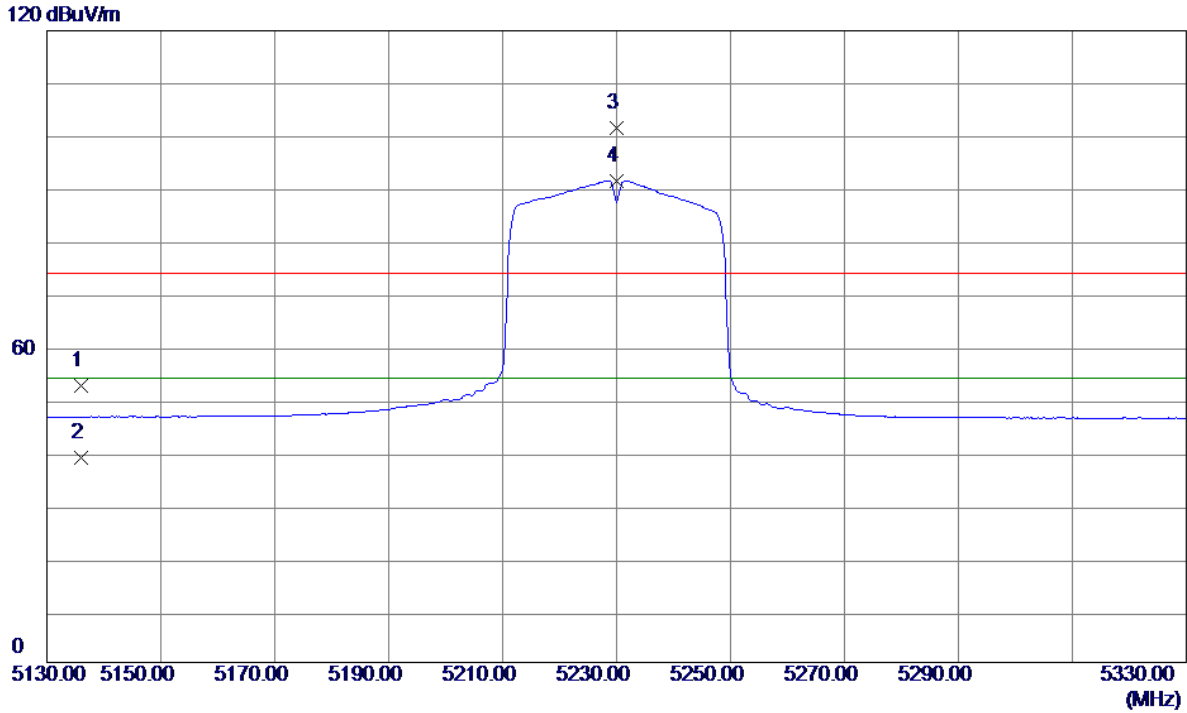
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10460.0000	52.61	1.87	54.48	68.20	-13.72	Peak	

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5230MHz_Without Pistol

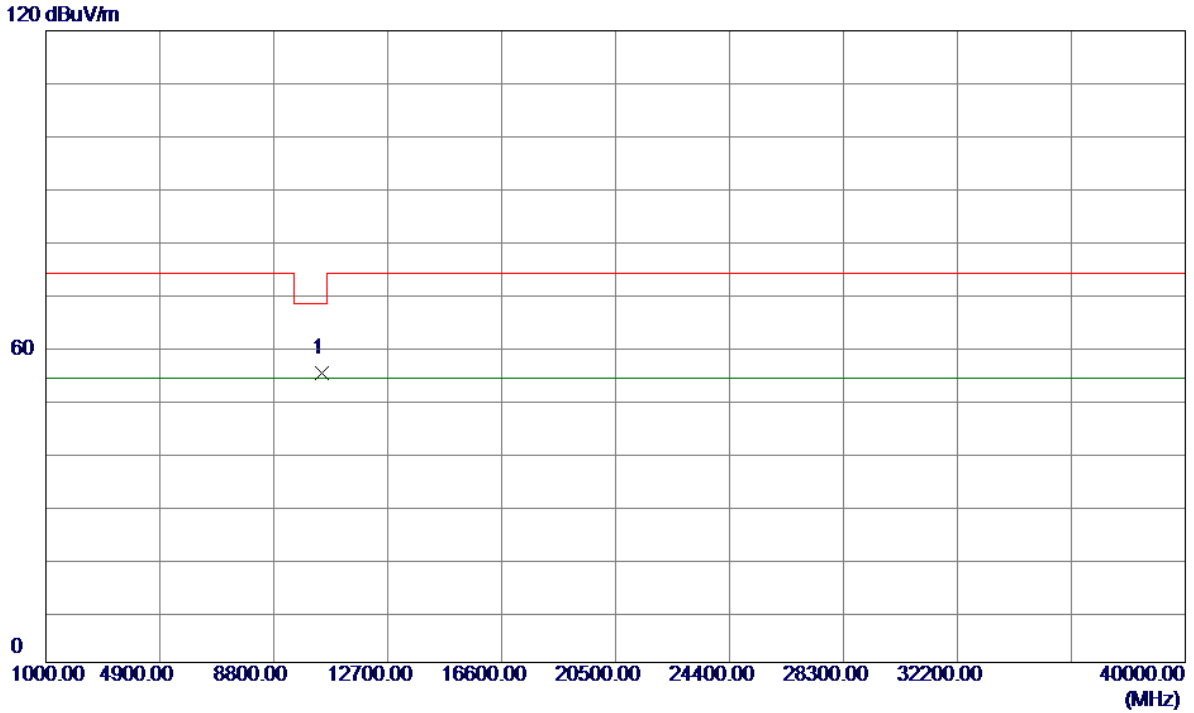
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5135.9400	15.14	37.45	52.59	74.00	-21.41	Peak	
2	5135.9400	1.38	37.45	38.83	54.00	-15.17	AVG	
3	5230.0000	63.89	37.57	101.46	74.00	27.46	Peak	No Limit
4 *	5230.0000	53.88	37.57	91.45	54.00	37.45	AVG	No Limit

Orthogonal Axis :	Z
Test Mode:	UNII-1/ TX N40 Mode 5230MHz_Without Pistol

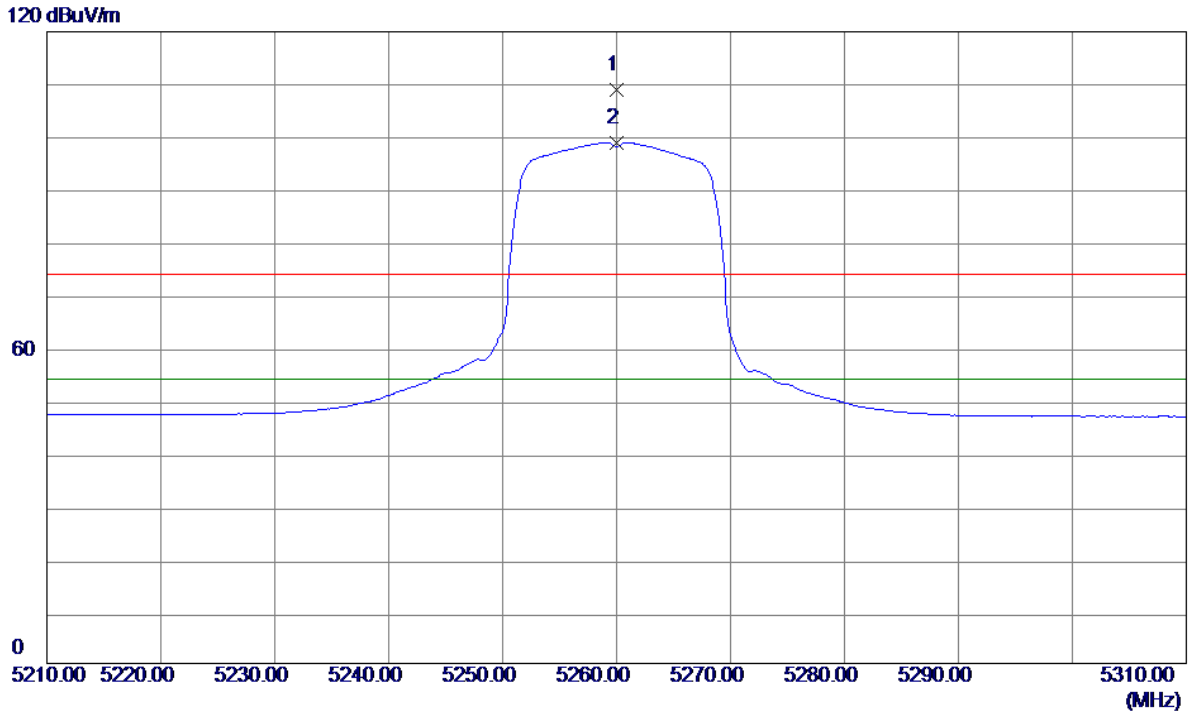
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10460.0000	52.99	1.87	54.86	68.20	-13.34	Peak	

Orthogonal Axis :	Z
Test Mode :	UNII-2A/ TX A Mode 5260MHz_Without Pistol

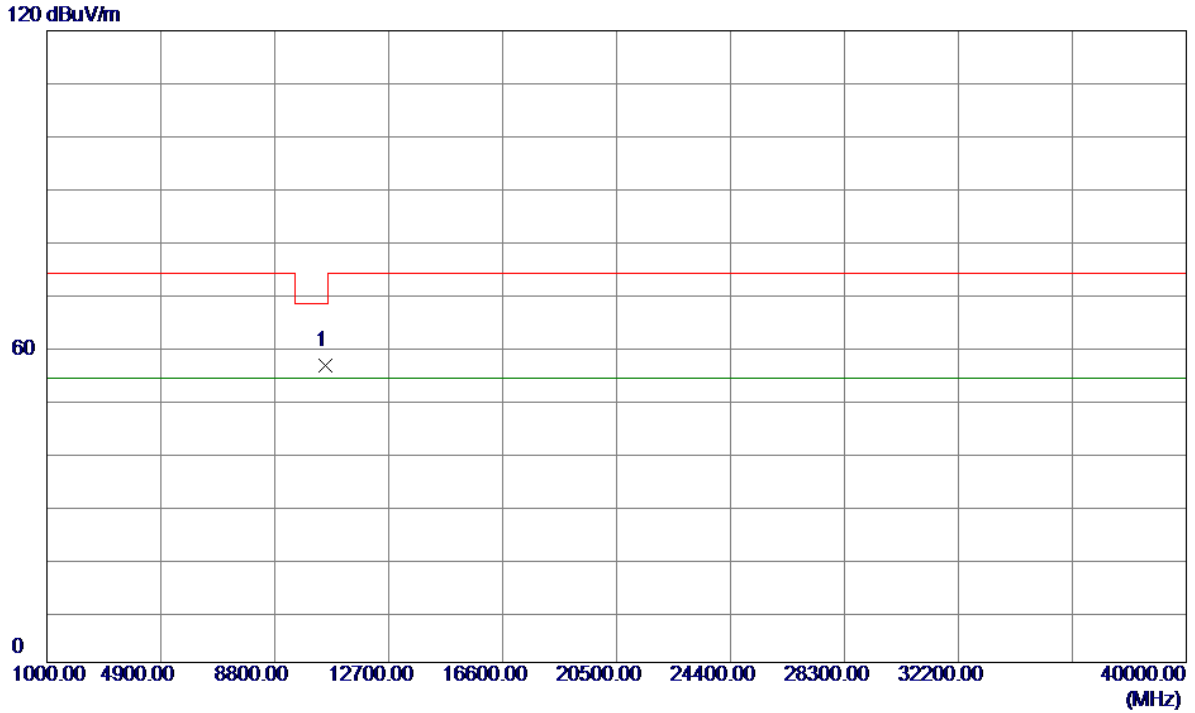
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5260.0000	71.35	37.61	108.96	74.00	34.96	Peak	No Limit
2 *	5260.0000	61.37	37.61	98.98	54.00	44.98	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	UNII-2A/ TX A Mode 5260MHz_Without Pistol

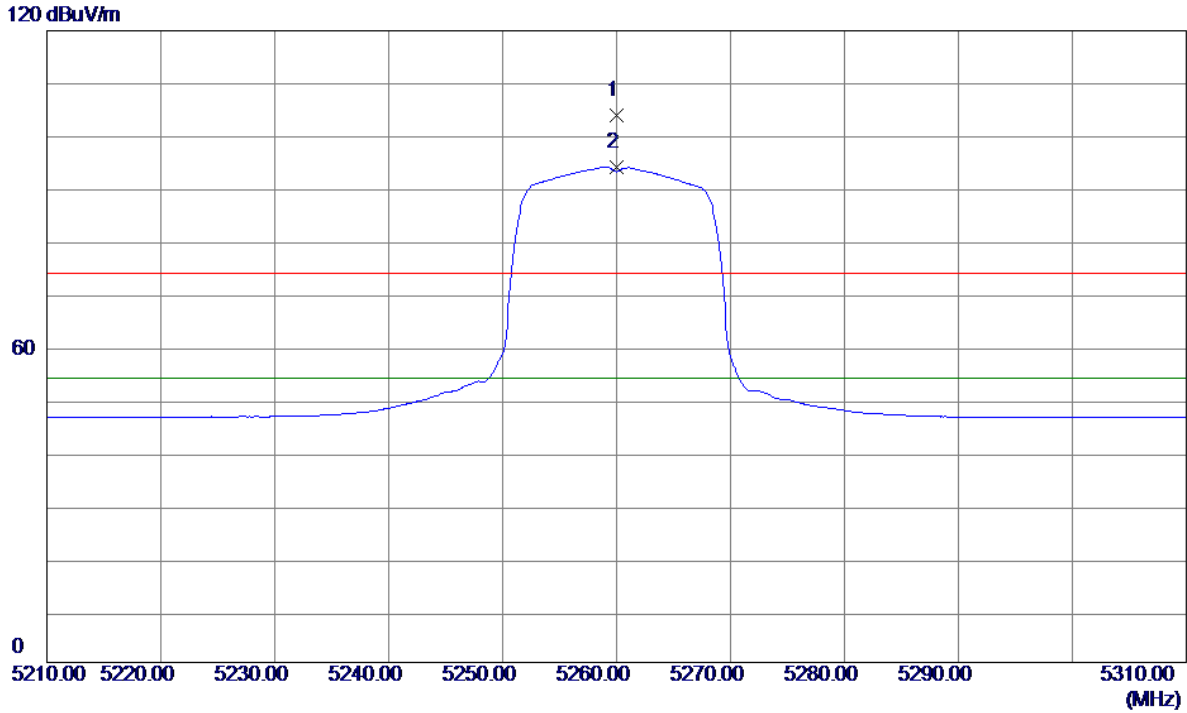
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10520.0000	54.52	1.91	56.43	68.20	-11.77	Peak	

Orthogonal Axis :	Z
Test Mode :	UNII-2A/ TX A Mode 5260MHz_Without Pistol

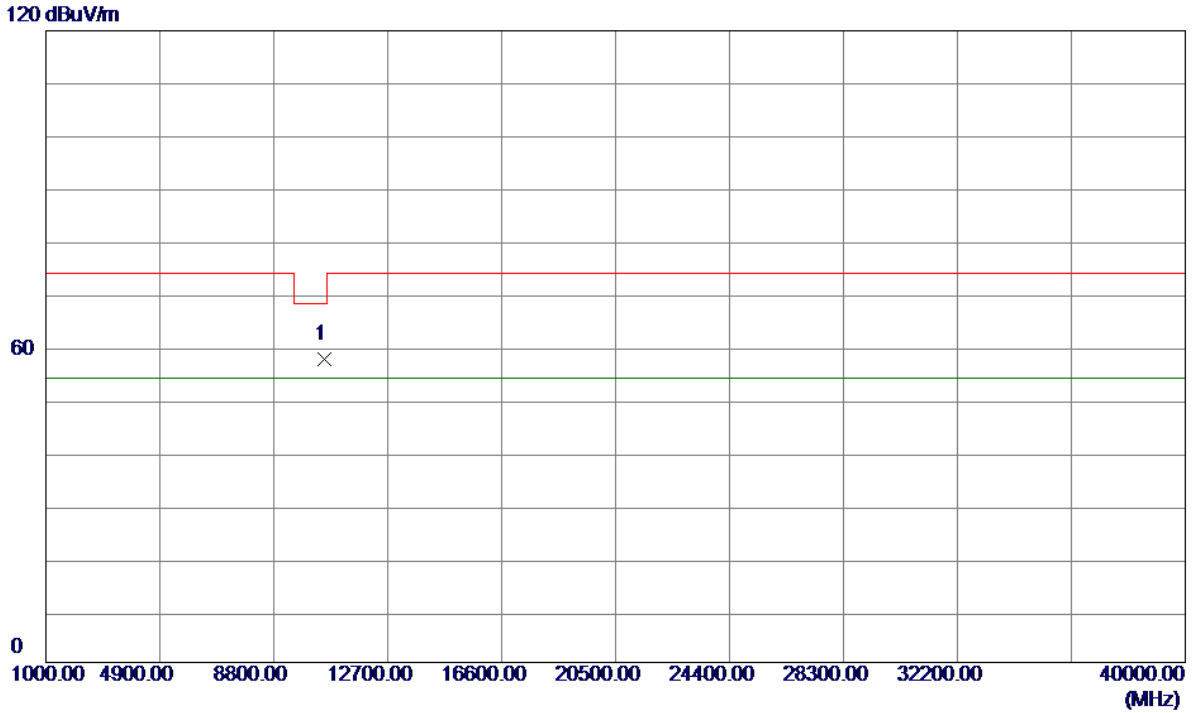
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5260.0000	66.25	37.61	103.86	74.00	29.86	Peak	No Limit
2 *	5260.0000	56.48	37.61	94.09	54.00	40.09	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	UNII-2A/ TX A Mode 5260MHz_Without Pistol

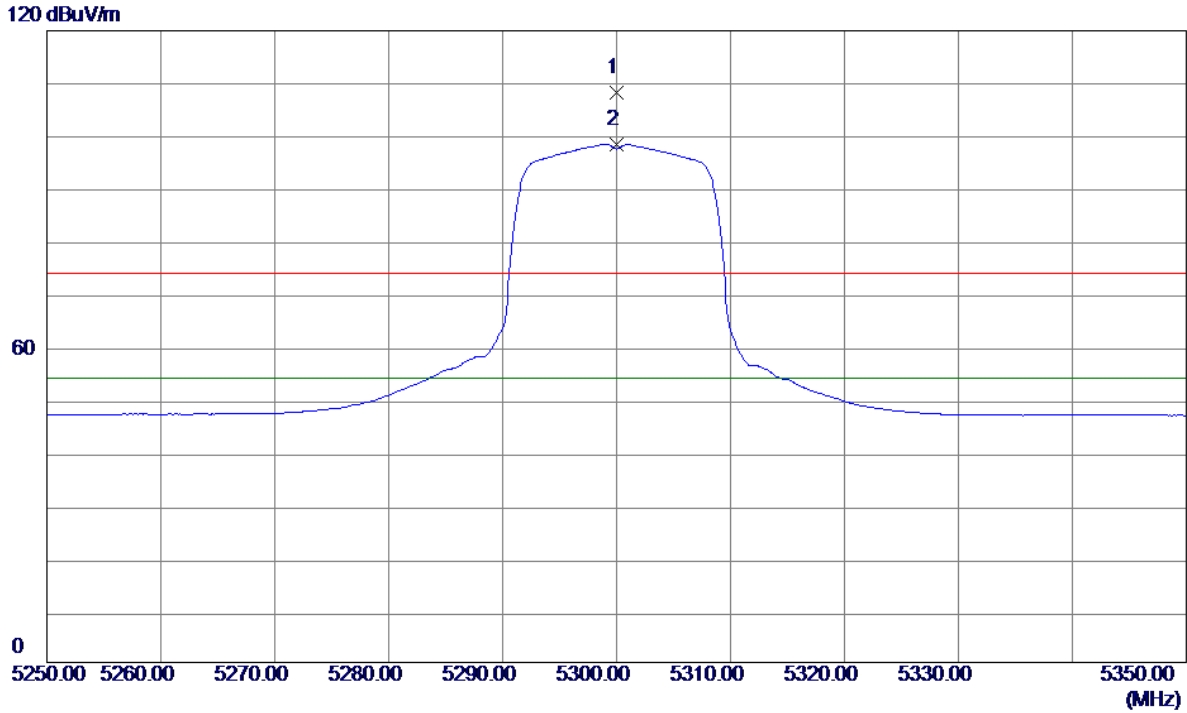
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10520.0000	55.76	1.91	57.67	68.20	-10.53	Peak	

Orthogonal Axis :	Z
Test Mode :	UNII-2A/ TX A Mode 5300MHz_Without Pistol

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5300.0000	70.56	37.66	108.22	74.00	34.22	Peak	No Limit
2 *	5300.0000	60.75	37.66	98.41	54.00	44.41	AVG	No Limit