

FCC Radio Partial Test Report

FCC ID: WS2-WG7833B0

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

Project No. : 1806T107A
Equipment : Wireless module
Test Model : WG7833-B0
Series Model : N/A
Applicant : Jorjin Technologies INC.
Address : 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161, TAIWAN, R.O.C.

Date of Receipt : Sep. 04, 2018
Date of Test : Sep. 04, 2018 ~ Oct. 08, 2018
Issued Date : Oct. 11, 2018
Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL'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. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

Limitation

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

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 11, 2018

1. CERTIFICATION

Equipment : Wireless module
Brand Name : Jorjin
Test Model : WG7833-B0
Series Model : N/A
Applicant : Jorjin Technologies INC.
Manufacturer : Jorjin Technologies INC.
Address : 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161,
TAIWAN, R.O.C.
Date of Test : Sep. 04, 2018 ~ Oct. 08, 2018
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart E(15.407)
ANSI C63.10-2013

The above equipment has been tested and found in 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-4-1806T107A) 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).

Test result included in this report is only for the 5GHz RLAN part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart E (15.407)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	-----
15.247(d) 15.209	Radiated emission	PASS	-----
15.203	Antenna Requirement	PASS	-----

Note:

- (1) "N/A" denotes test is not applicable in this test report
- (2) Accord to the EUT(Report Number: T150417W02-RP1 and model: WG7833-B0, WG7833BEM2A, WG7833BEM2B) has been certificated, Conducted and Radiated emission were criticized and reconfirmed in this report.
- (3) Compared with the previous report (T150417W02-RP1), added one PCB type antennas.

2.1 TEST FACILITY

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

Conducted emission Test:

C05: (VCCI RN: C-14742; 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 (Below 1 GHz):

CB15: (VCCI RN: R-20020; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB15: (VCCI RN: G-20031; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

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	2.68

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.82
		150kHz ~ 30MHz	2.58

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.20
		30MHz ~ 200MHz	H	3.64
		200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	H	3.90

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.46
		1GHz ~ 6GHz	H	4.40
		6GHz ~ 18GHz	V	3.88
		6GHz ~ 18GHz	H	4.00

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.62
		26.5 ~ 40 GHz	5.12

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless module
Brand Name	Jorjin
Test Model	WG7833-B0
Series Model	N/A
Model Difference	N/A
Power Source	Powered from host device via USB Cable
Power Rating	DC 5V
Products Covered	N/A
Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
Modulation Type	OFDM
Bit Rate of Transmitter	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n : up to 300Mbps

Note:

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

802.11a, 802.11n (20 MHz)		802.11n (40 MHz)	
UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

802.11a, 802.11n (20 MHz)		802.11n (40 MHz)	
UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785		
161	5805		
165	5825		

3. Table for Filed Antenna:

Ant.	Brand	Model	Type	Connector	Gain (dBi)		
					2.4 GHz	Band 1	Band 4
1	Liteon	Locix	PCB	N/A	3.83	4.10	2.27

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 A Mode / CH149,CH157,CH165 (UNII-3)
Mode 5	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 7	TX A Mode / CH48 (UNII-1)
Mode 8	TX A Mode / CH149 (UNII-3)

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 7	TX A Mode / CH48 (UNII-1)
Mode 8	TX A Mode / CH149 (UNII-3)

For Radiated Emission	
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 A Mode / CH149,CH157,CH165 (UNII-3)
Mode 5	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N40 Mode / CH151,CH159 (UNII-3)

Note:

(1) For radiated emission below 1GHz test, only the worst case is recorded.

3.3 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
 If duty cycle is $< 98\%$, duty factor shall be considered.

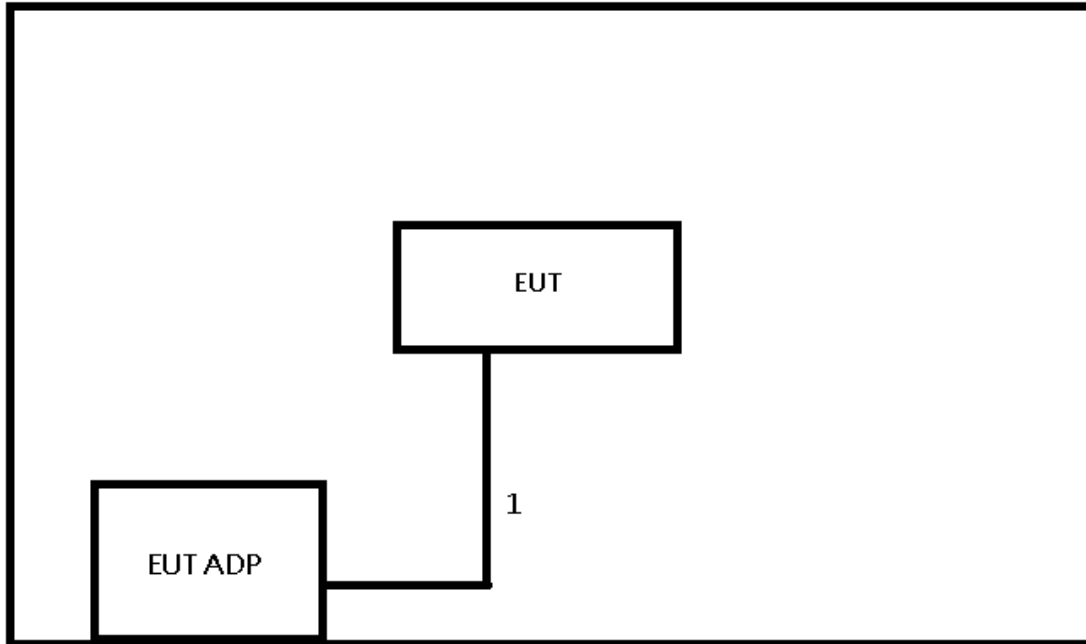
<p style="text-align: center;">IEEE 802.11a</p> <p style="text-align: right;">Date: 2.OCT.2018 22:31:38</p>	<p style="text-align: center;">IEEE 802.11n (20 MHz)</p> <p style="text-align: right;">Date: 2.OCT.2018 21:42:37</p>
<p>Duty cycle = 5.440 ms / 5.680 ms = 95.77 % Duty Factor = $10 * \log(1 / 0.9577) = 0.19$</p>	<p>Duty cycle = 5.000 ms / 5.320 ms = 93.98 % Duty Factor = $10 * \log(1 / 0.9398) = 0.27$</p>
<p style="text-align: center;">IEEE 802.11n (40 MHz)</p> <p style="text-align: right;">Date: 2.OCT.2018 22:17:17</p>	
<p>Duty cycle = 2.420 ms / 2.680 ms = 90.30 % Duty Factor = $10 * \log(1 / 0.9030) = 0.44$</p>	

Note:

For IEEE 802.11a and IEEE 802.11n (20 MHz):
 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 (40 MHz):
 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%).

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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	Power Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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 limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

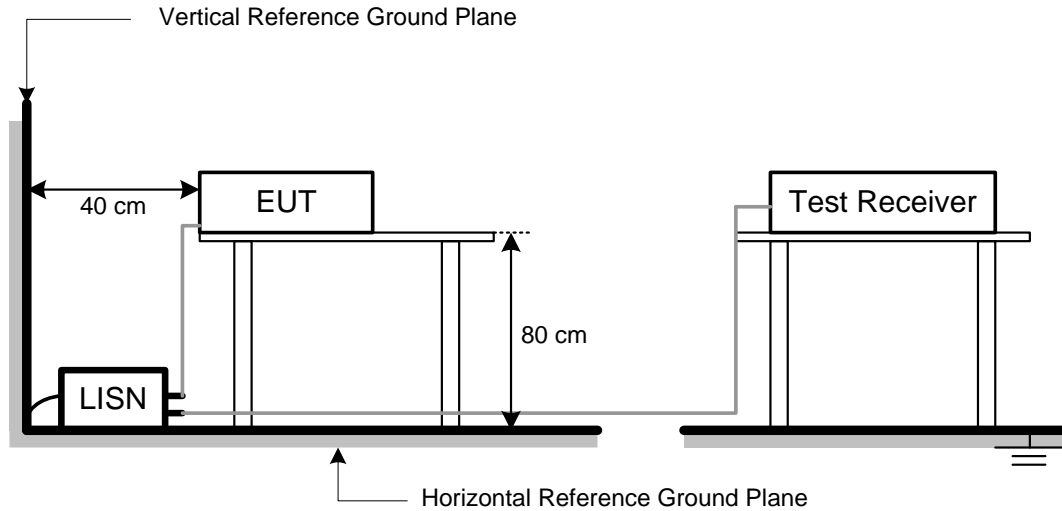
4.1.2 TEST PROCEDURE

- 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 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.
- 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 function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 45%

Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix 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.
- (3) " N/A " denotes test is not applicable to this device.

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

Note:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart E.
- (2) The tighter limit applies at the band edges.

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:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

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 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.

4.2.2 TEST PROCEDURE

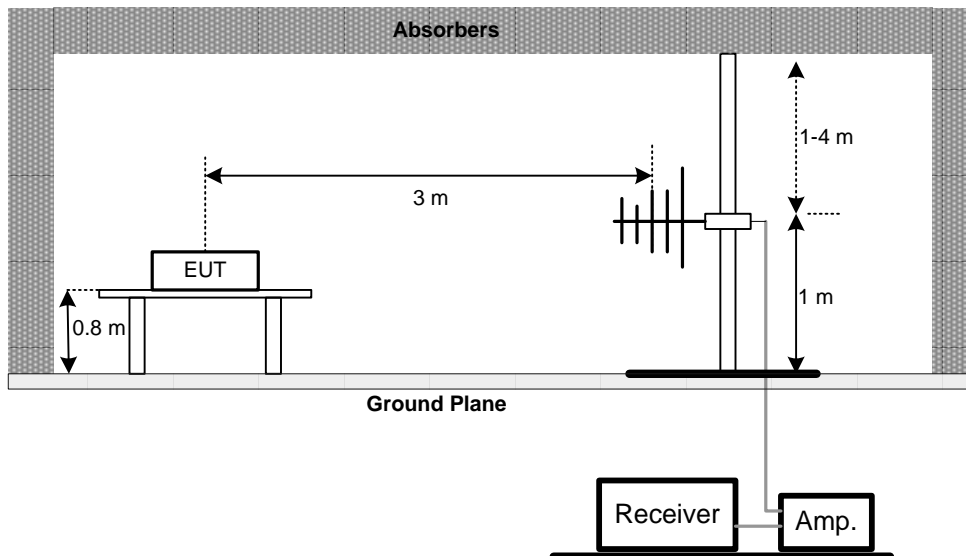
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

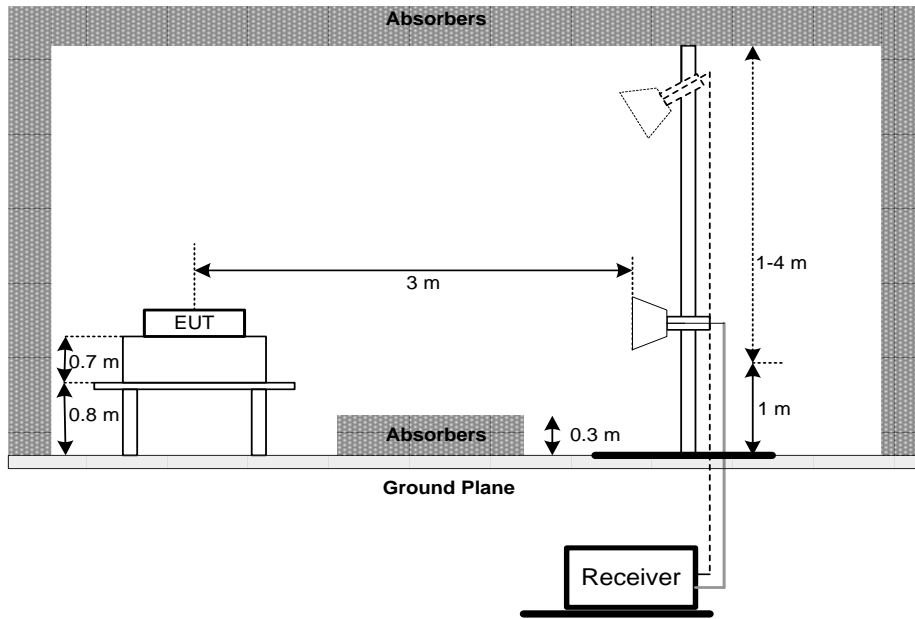
No deviation

4.2.4 TEST SETUP

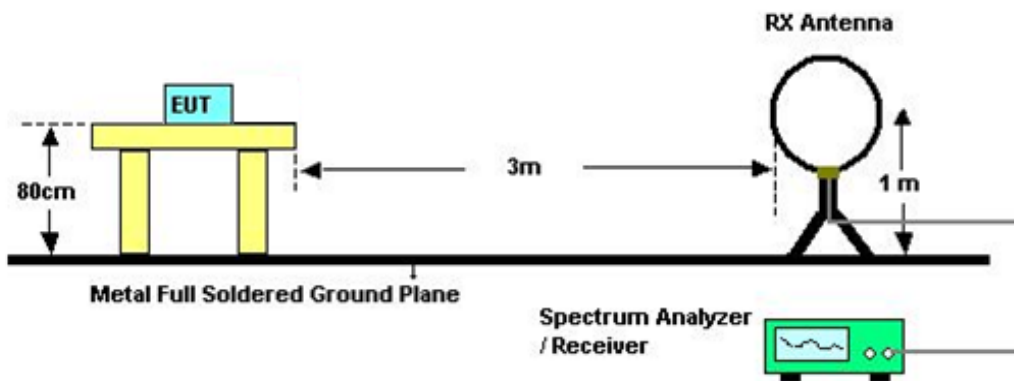
(A)Radiated Emission Test Set-Up Frequency Below 1GHz



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



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.8 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix 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. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Mar. 08, 2019
2	Test Cable	EMCI	EMCCFD300-BM-B MR-6000	170715	Aug. 07, 2019
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2018
4	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

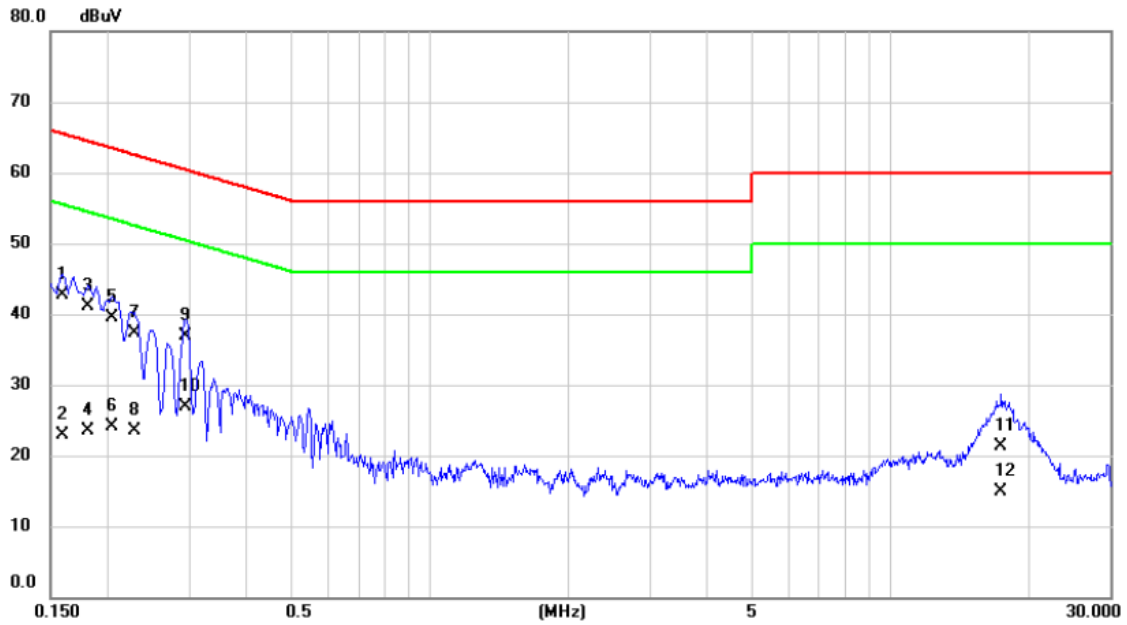
Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Feb. 27, 2019
2	Preamplifier	EMCI	EMC02325	980217	Dec. 27, 2018
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 13, 2019
4	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 03, 2019
5	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 03, 2019
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 03, 2019
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2019
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 21, 2019
9	Loop Ant	EMCI	LPA600	274	May 03, 2019
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 27, 2019
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Dec. 05, 2018
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 15, 2019
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 15, 2019

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

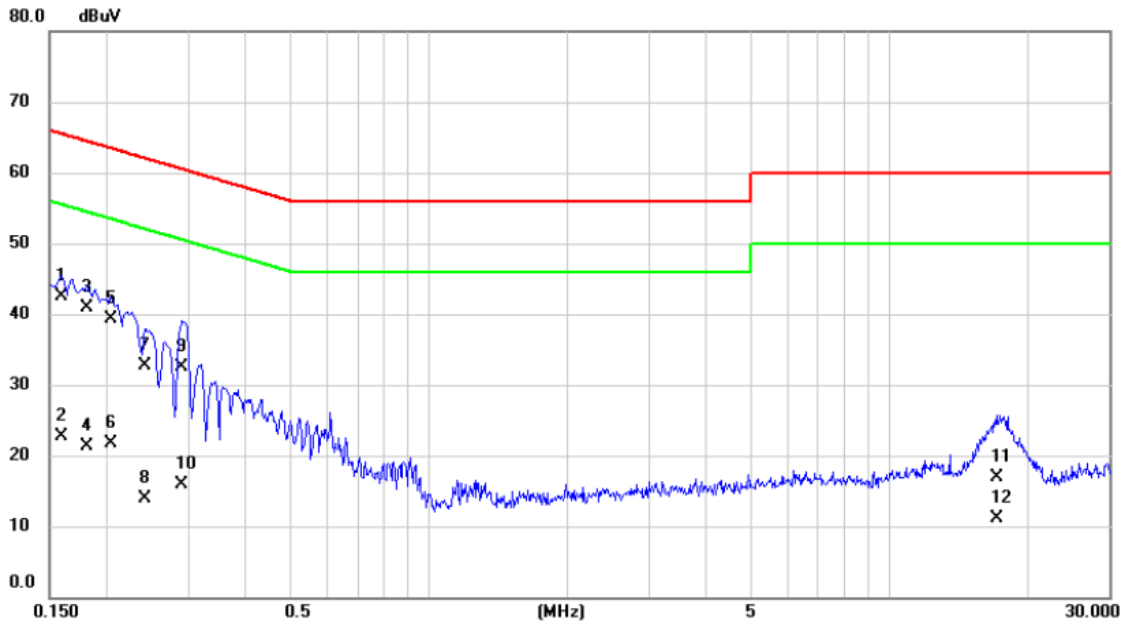
APPENDIX A – CONDUCTED EMISSION

Test Mode	UNII-1/TX A Mode 5240MHz	Phase	Line
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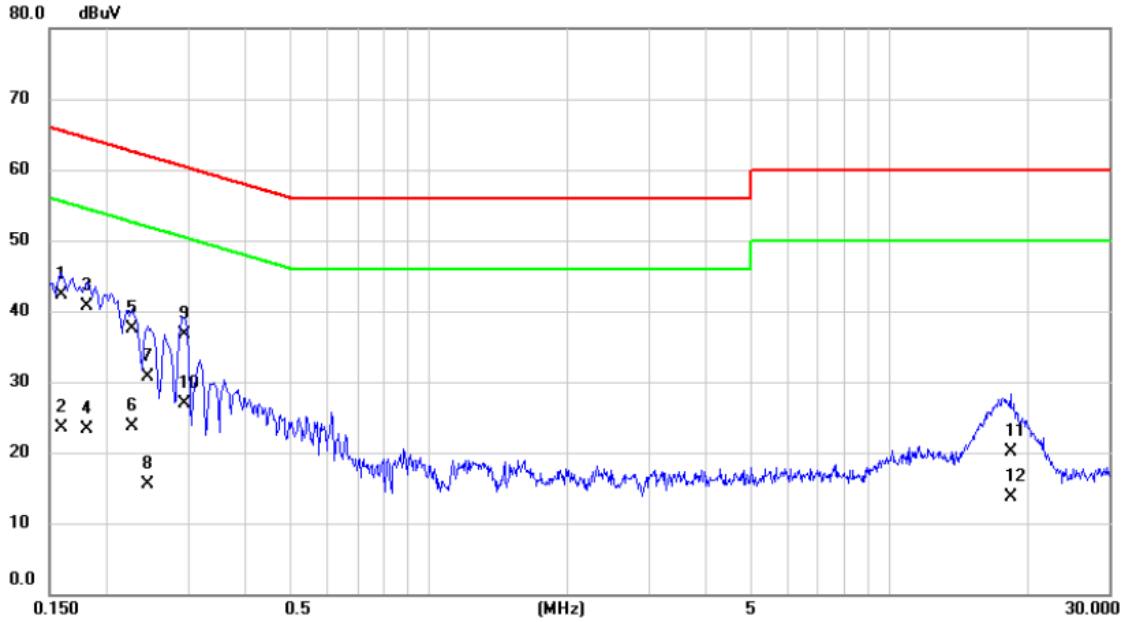
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1590	33.00	9.63	42.63	65.52	-22.89	QP	
2		0.1590	13.20	9.63	22.83	55.52	-32.69	AVG	
3		0.1815	31.40	9.63	41.03	64.42	-23.39	QP	
4		0.1815	13.90	9.63	23.53	54.42	-30.89	AVG	
5		0.2040	29.80	9.63	39.43	63.45	-24.02	QP	
6		0.2040	14.50	9.63	24.13	53.45	-29.32	AVG	
7		0.2288	27.70	9.64	37.34	62.49	-25.15	QP	
8		0.2288	13.90	9.64	23.54	52.49	-28.95	AVG	
9		0.2940	27.30	9.66	36.96	60.41	-23.45	QP	
10		0.2940	17.30	9.66	26.96	50.41	-23.45	AVG	
11		17.3895	11.40	9.95	21.35	60.00	-38.65	QP	
12		17.3895	5.00	9.95	14.95	50.00	-35.05	AVG	

Test Mode	UNII-1/TX A Mode 5240MHz	Phase	Neutral
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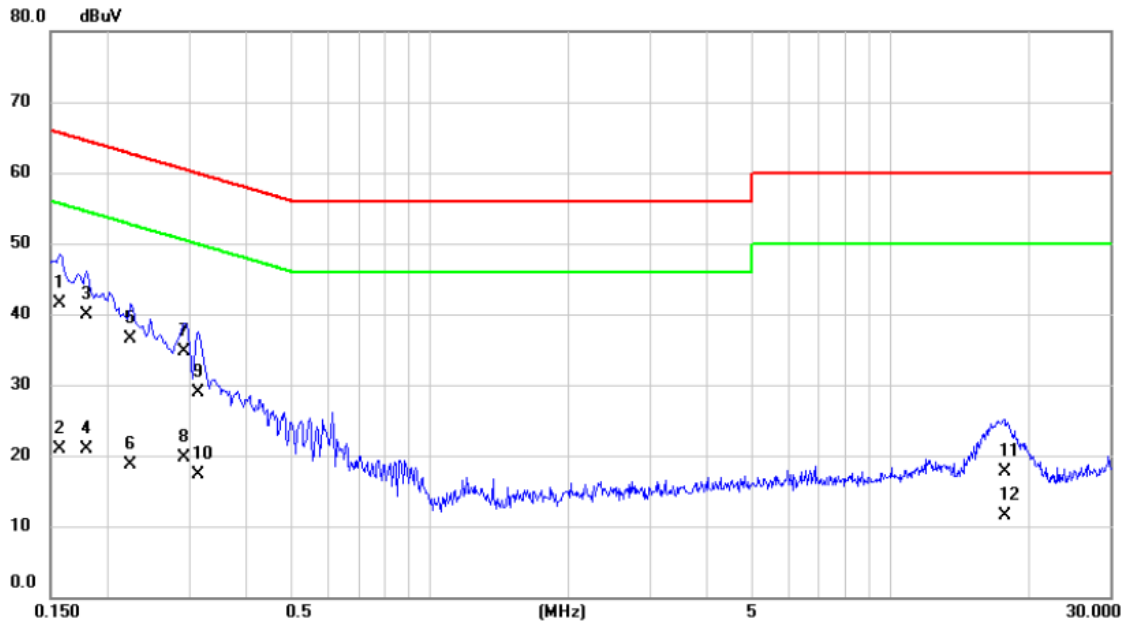
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1590	32.80	9.62	42.42	65.52	-23.10	QP	
2		0.1590	13.10	9.62	22.72	55.52	-32.80	AVG	
3		0.1815	31.30	9.61	40.91	64.42	-23.51	QP	
4		0.1815	11.70	9.61	21.31	54.42	-33.11	AVG	
5		0.2040	29.70	9.61	39.31	63.45	-24.14	QP	
6		0.2040	12.00	9.61	21.61	53.45	-31.84	AVG	
7		0.2423	23.00	9.62	32.62	62.02	-29.40	QP	
8		0.2423	4.20	9.62	13.82	52.02	-38.20	AVG	
9		0.2895	22.90	9.64	32.54	60.54	-28.00	QP	
10		0.2895	6.20	9.64	15.84	50.54	-34.70	AVG	
11		17.0723	6.90	9.96	16.86	60.00	-43.14	QP	
12		17.0723	1.20	9.96	11.16	50.00	-38.84	AVG	

Test Mode	UNII-3/TX A Mode 5745MHz	Phase	Line
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1590	32.70	9.63	42.33	65.52	-23.19	QP	
2		0.1590	13.90	9.63	23.53	55.52	-31.99	AVG	
3		0.1815	31.10	9.63	40.73	64.42	-23.69	QP	
4		0.1815	13.60	9.63	23.23	54.42	-31.19	AVG	
5		0.2265	27.80	9.64	37.44	62.58	-25.14	QP	
6		0.2265	14.00	9.64	23.64	52.58	-28.94	AVG	
7		0.2445	21.00	9.64	30.64	61.94	-31.30	QP	
8		0.2445	5.80	9.64	15.44	51.94	-36.50	AVG	
9		0.2940	27.10	9.66	36.76	60.41	-23.65	QP	
10		0.2940	17.20	9.66	26.86	50.41	-23.55	AVG	
11		18.3210	10.10	9.96	20.06	60.00	-39.94	QP	
12		18.3210	3.80	9.96	13.76	50.00	-36.24	AVG	

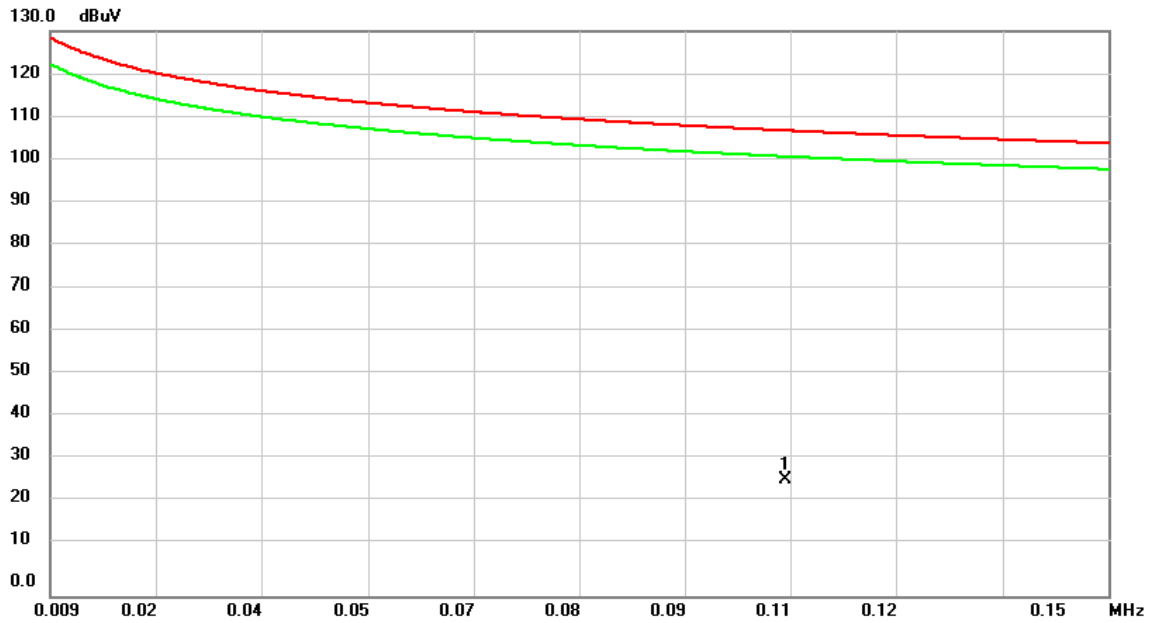
Test Mode	UNII-3/TX A Mode 5745MHz	Phase	Neutral
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1568	31.80	9.62	41.42	65.63	-24.21	QP	
2		0.1568	11.20	9.62	20.82	55.63	-34.81	AVG	
3		0.1793	30.20	9.61	39.81	64.52	-24.71	QP	
4		0.1793	11.30	9.61	20.91	54.52	-33.61	AVG	
5		0.2243	26.80	9.62	36.42	62.66	-26.24	QP	
6		0.2243	9.10	9.62	18.72	52.66	-33.94	AVG	
7		0.2917	25.00	9.64	34.64	60.48	-25.84	QP	
8		0.2917	10.10	9.64	19.74	50.48	-30.74	AVG	
9		0.3141	19.30	9.64	28.94	59.86	-30.92	QP	
10		0.3141	7.60	9.64	17.24	49.86	-32.62	AVG	
11		17.6798	7.80	9.97	17.77	60.00	-42.23	QP	
12		17.6798	1.60	9.97	11.57	50.00	-38.43	AVG	

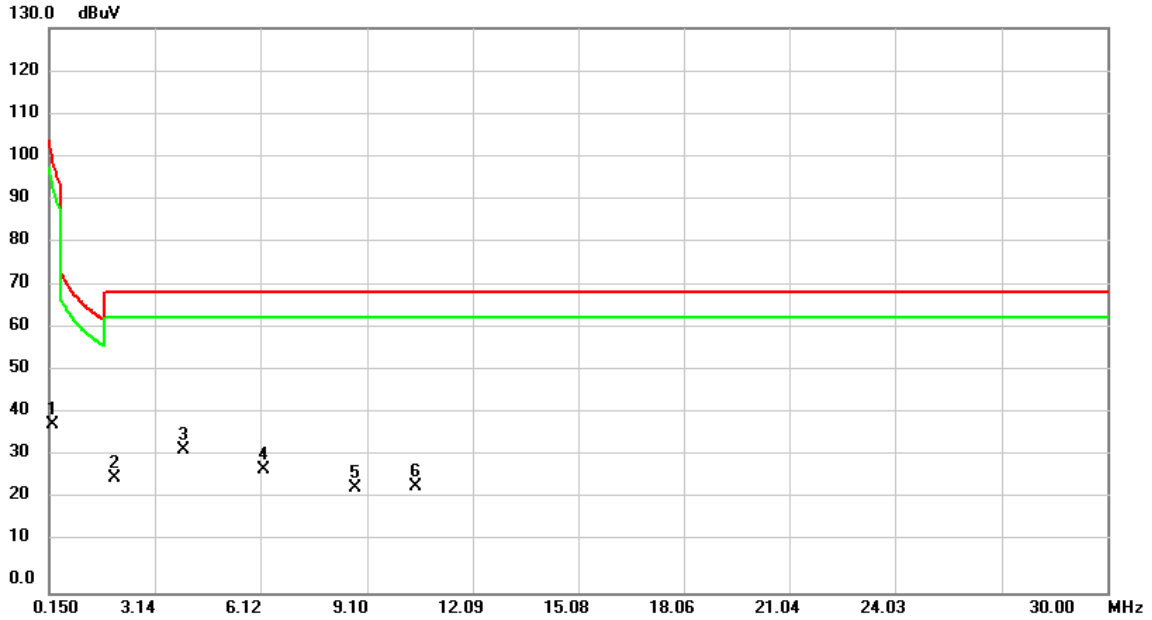
**APPENDIX A - RADIATED EMISSION
(9KHZ TO 30MHZ)**

Test Mode	UNII-1/TX A Mode 5240MHz	Azimuth Angle	90°
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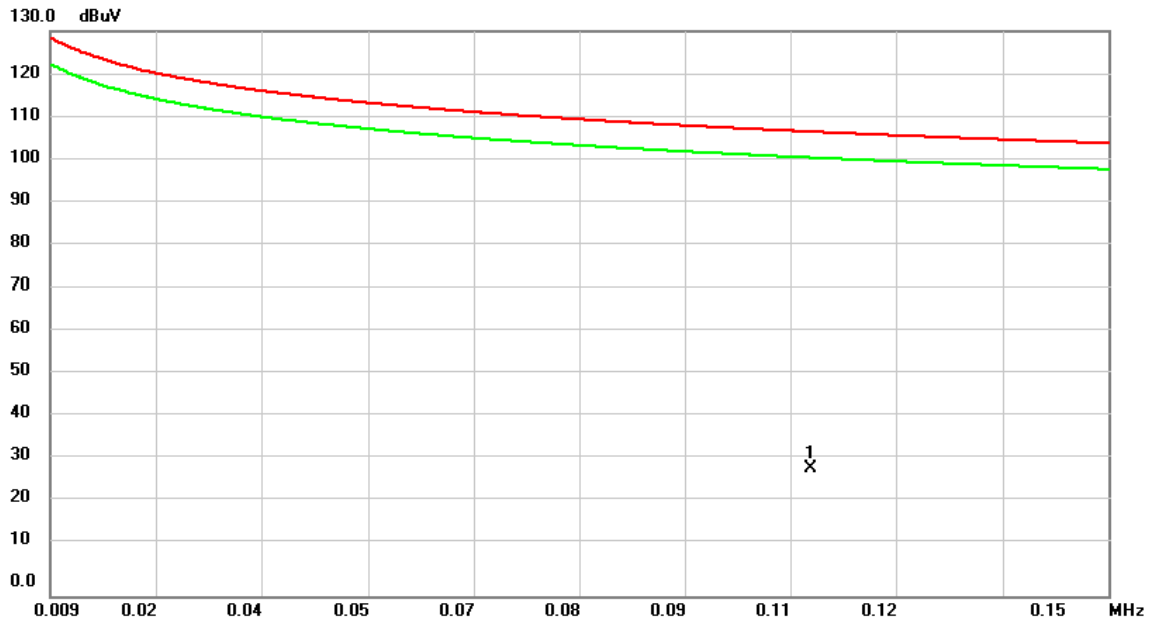
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1070	11.33	15.63	26.96	107.02	-80.06	peak	

Test Mode	UNII-1/TX A Mode 5240MHz	Azimuth Angle	90°
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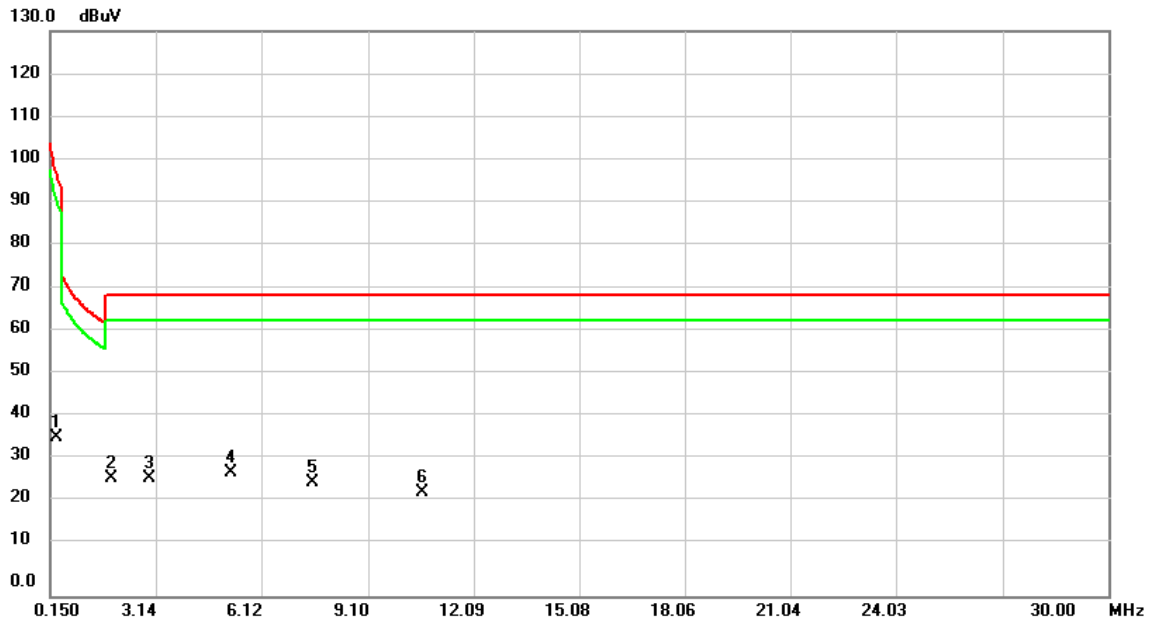
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2296	29.64	9.36	39.00	100.38	-61.38	peak	
2		1.9808	29.33	-2.89	26.44	69.54	-43.10	peak	
3	*	3.9310	36.73	-3.78	32.95	69.54	-36.59	peak	
4		6.1996	32.47	-4.05	28.42	69.54	-41.12	peak	
5		8.7468	28.95	-4.61	24.34	69.54	-45.20	peak	
6		10.4582	29.16	-4.76	24.40	69.54	-45.14	peak	

Test Mode	UNII-1/TX A Mode 5240MHz	Azimuth Angle	0°
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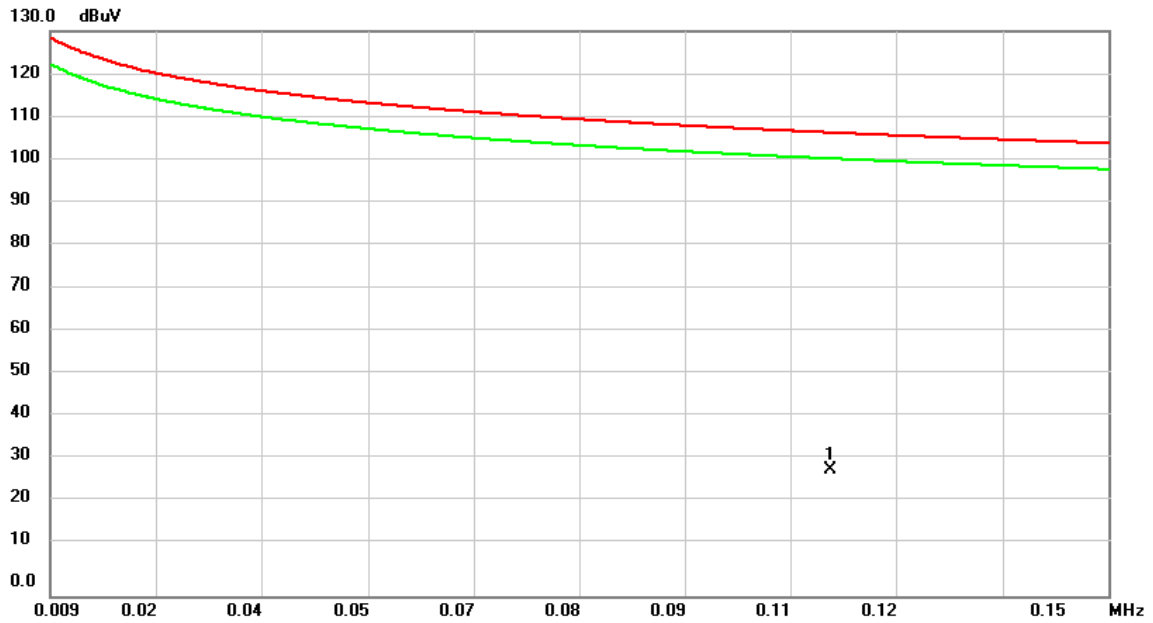
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1105	13.90	15.43	29.33	106.74	-77.41	peak	

Test Mode	UNII-1/TX A Mode 5240MHz	Azimuth Angle	0°
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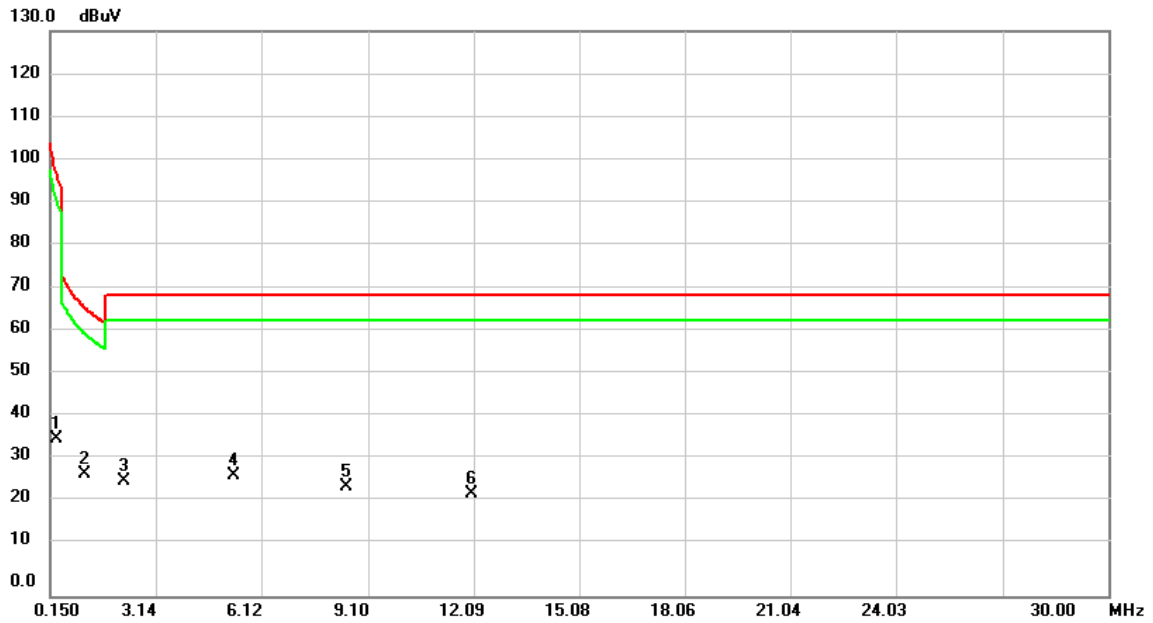
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3092	29.90	6.81	36.71	97.80	-61.09	peak	
2		1.8614	29.60	-2.58	27.02	69.54	-42.52	peak	
3		2.9360	30.70	-3.62	27.08	69.54	-42.46	peak	
4	*	5.2444	32.38	-3.95	28.43	69.54	-41.11	peak	
5		7.5130	30.50	-4.22	26.28	69.54	-43.26	peak	
6		10.6174	28.54	-4.77	23.77	69.54	-45.77	peak	

Test Mode	UNII-3/TX A Mode 5745MHz	Azimuth Angle	90°
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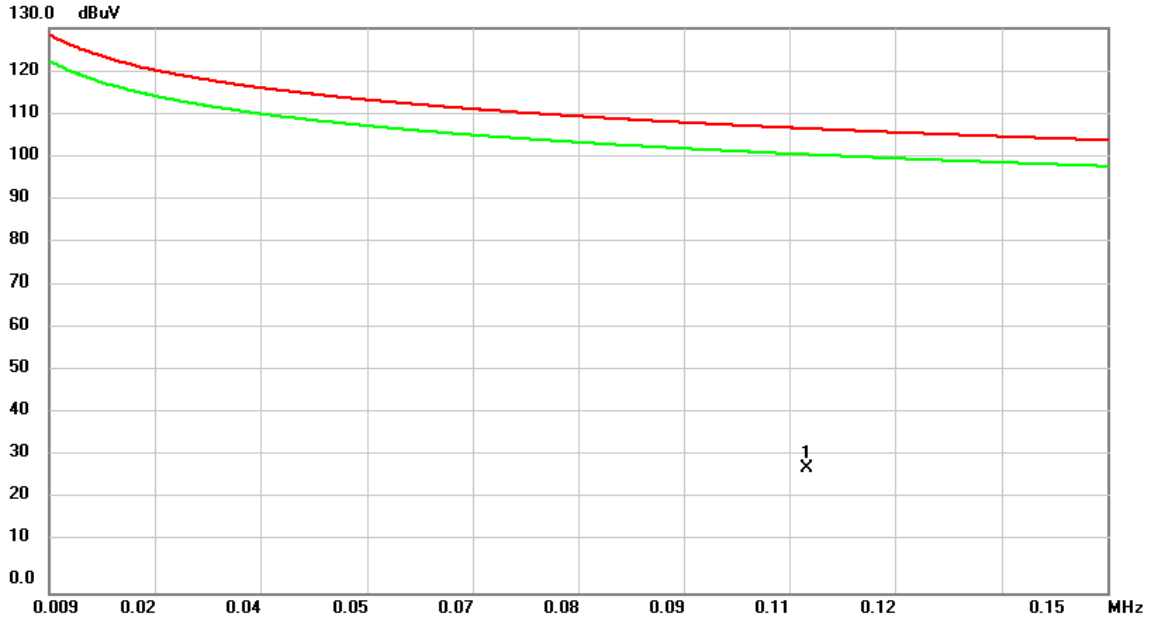
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1130	13.76	15.30	29.06	106.54	-77.48	peak	

Test Mode	UNII-3/TX A Mode 5745MHz	Azimuth Angle	90°
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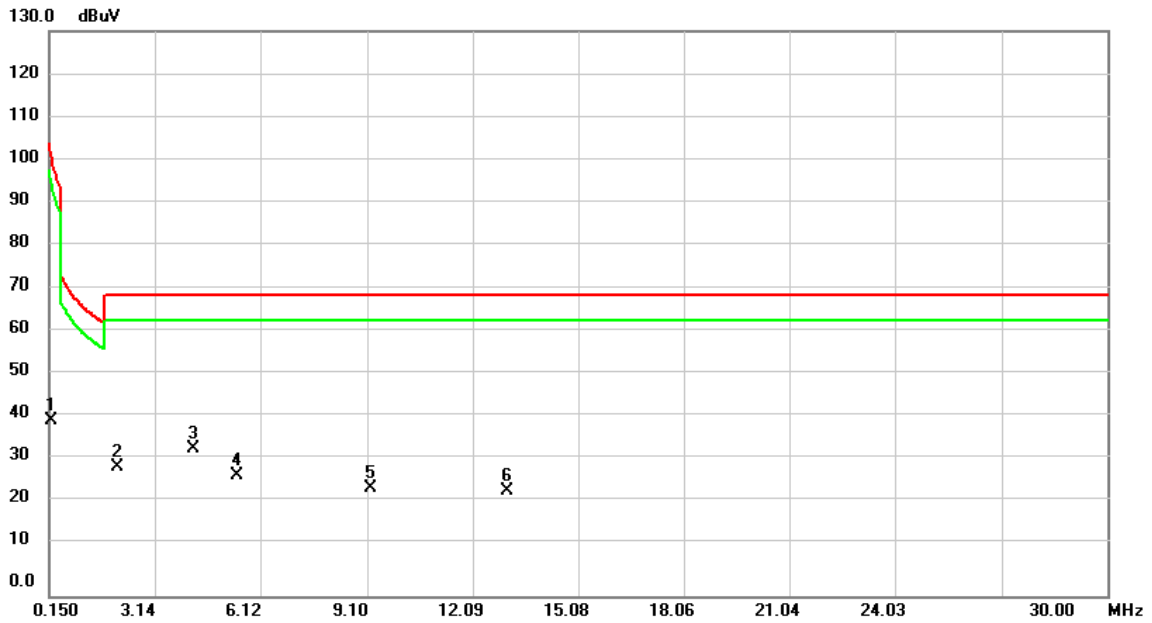
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3092	29.45	6.81	36.26	97.80	-61.54	peak	
2	*	1.1052	28.75	-0.62	28.13	66.73	-38.60	peak	
3		2.2196	29.47	-3.09	26.38	69.54	-43.16	peak	
4		5.3240	31.87	-3.96	27.91	69.54	-41.63	peak	
5		8.5080	29.79	-4.52	25.27	69.54	-44.27	peak	
6		12.0104	28.38	-4.82	23.56	69.54	-45.98	peak	

Test Mode	UNII-3/TX A Mode 5745MHz	Azimuth Angle	0°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1101	13.18	15.45	28.63	106.77	-78.14	peak	

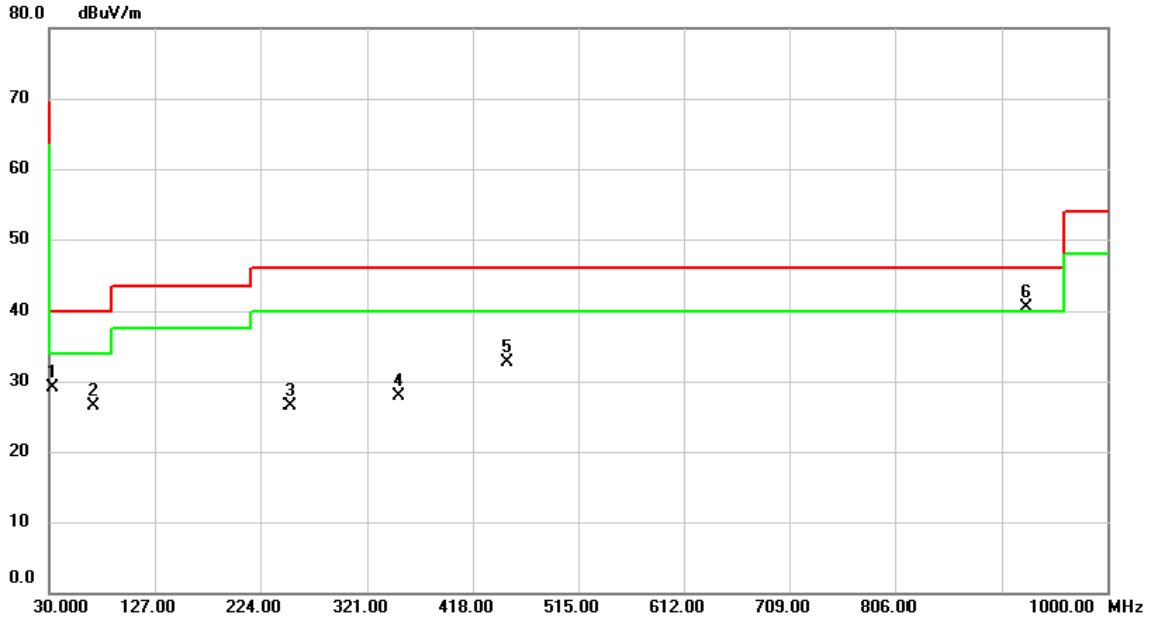
Test Mode	UNII-3/TX A Mode 5745MHz	Azimuth Angle	0°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1898	29.40	10.93	40.33	102.04	-61.71	peak	
2		2.0604	32.62	-2.98	29.64	69.54	-39.90	peak	
3	*	4.2096	37.80	-3.82	33.98	69.54	-35.56	peak	
4		5.4434	31.76	-3.97	27.79	69.54	-41.75	peak	
5		9.1846	29.55	-4.71	24.84	69.54	-44.70	peak	
6		13.0452	29.06	-4.82	24.24	69.54	-45.30	peak	

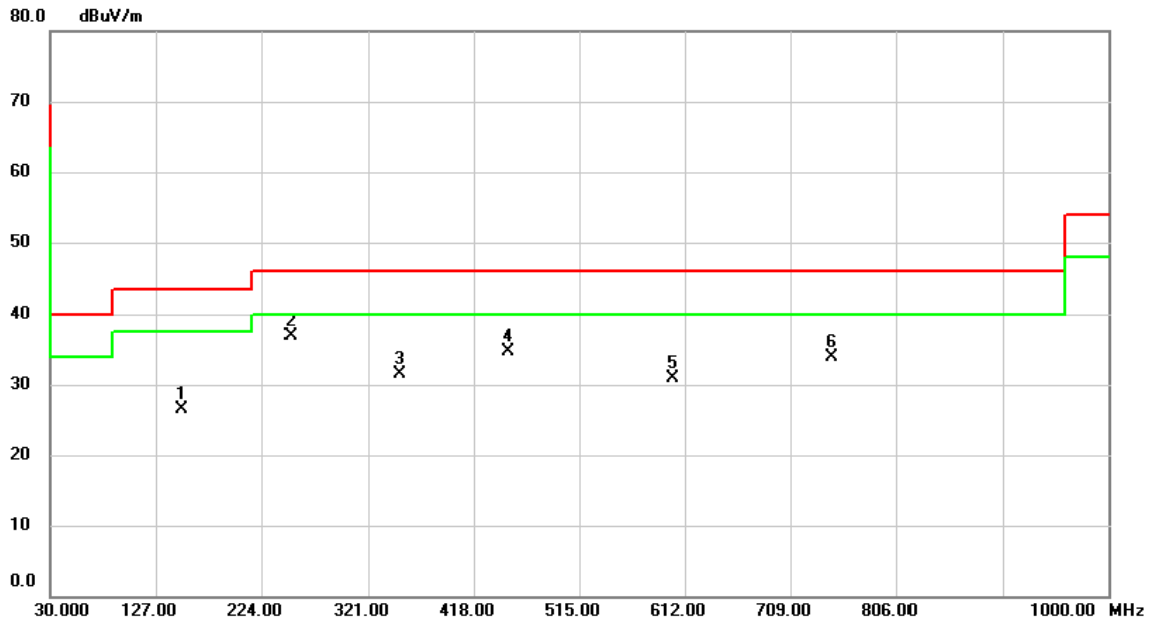
**APPENDIX B - RADIATED EMISSION
(30MHZ TO 1000MHZ)**

Test Mode	UNII-1/TX A Mode 5240MHz	Polarization	Vertical
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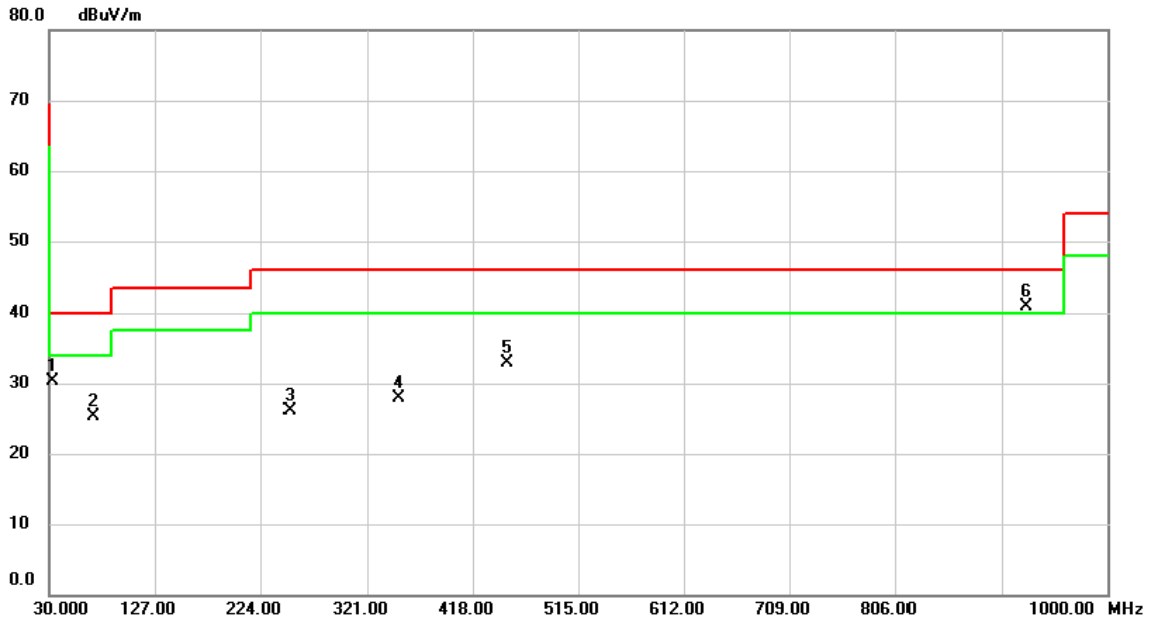
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		32.9100	38.18	-9.04	29.14	40.00	-10.86	peak	
2		70.7400	37.35	-10.83	26.52	40.00	-13.48	peak	
3		250.1900	35.62	-9.10	26.52	46.00	-19.48	peak	
4		350.1000	34.10	-6.20	27.90	46.00	-18.10	peak	
5		450.0100	36.46	-3.80	32.66	46.00	-13.34	peak	
6	*	925.3100	35.21	5.39	40.60	46.00	-5.40	peak	

Test Mode	UNII-1/TX A Mode 5240MHz	Polarization	Horizontal
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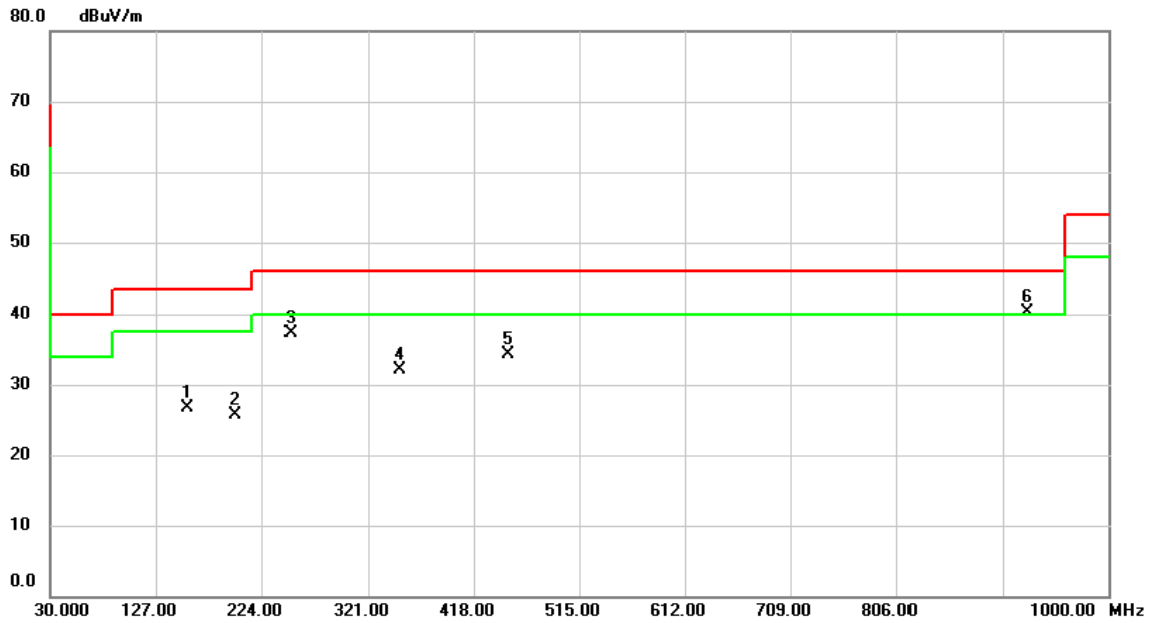
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		150.2800	35.18	-8.62	26.56	43.50	-16.94	peak	
2	*	250.1900	46.08	-9.10	36.98	46.00	-9.02	peak	
3		350.1000	37.78	-6.20	31.58	46.00	-14.42	peak	
4		450.0100	38.42	-3.80	34.62	46.00	-11.38	peak	
5		600.3600	31.32	-0.41	30.91	46.00	-15.09	peak	
6		746.8300	31.64	2.26	33.90	46.00	-12.10	peak	

Test Mode	UNII-3/TX A Mode 5745MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		32.9200	39.35	-9.03	30.32	40.00	-9.68	peak	
2		70.7500	36.11	-10.84	25.27	40.00	-14.73	peak	
3		250.1900	35.14	-9.10	26.04	46.00	-19.96	peak	
4		350.1200	34.19	-6.20	27.99	46.00	-18.01	peak	
5		450.0200	36.72	-3.80	32.92	46.00	-13.08	peak	
6	*	925.3100	35.52	5.39	40.91	46.00	-5.09	peak	

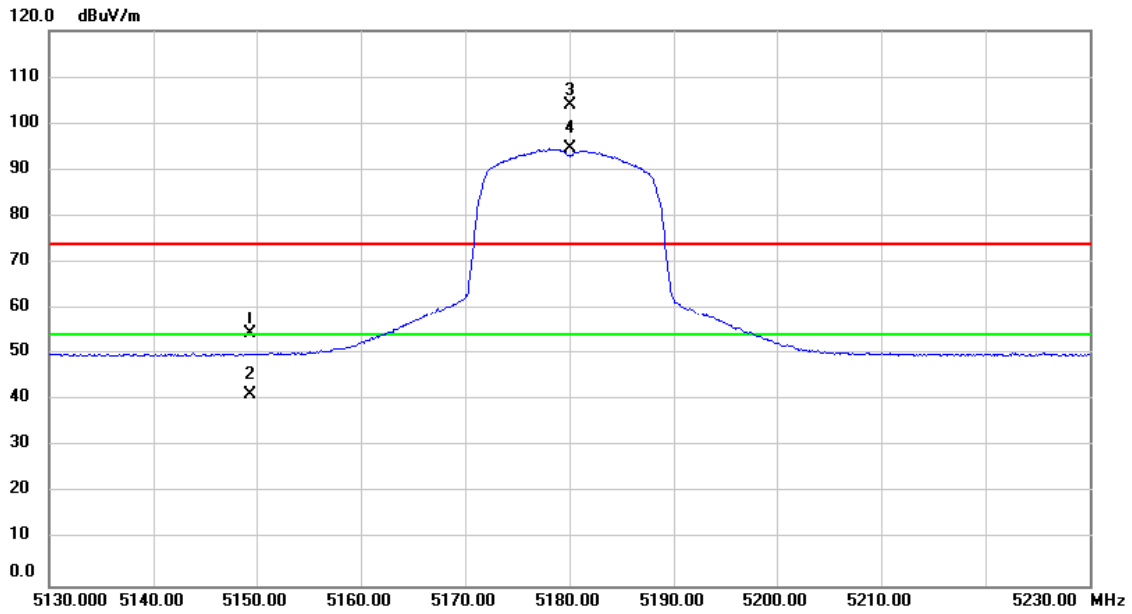
Test Mode	UNII-3/TX A Mode 5745MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		156.1300	35.22	-8.57	26.65	43.50	-16.85	peak	
2		199.7500	36.61	-10.90	25.71	43.50	-17.79	peak	
3		250.1600	46.33	-9.10	37.23	46.00	-8.77	peak	
4		350.1100	38.34	-6.20	32.14	46.00	-13.86	peak	
5		450.0100	38.11	-3.80	34.31	46.00	-11.69	peak	
6	*	926.2700	34.99	5.41	40.40	46.00	-5.60	peak	

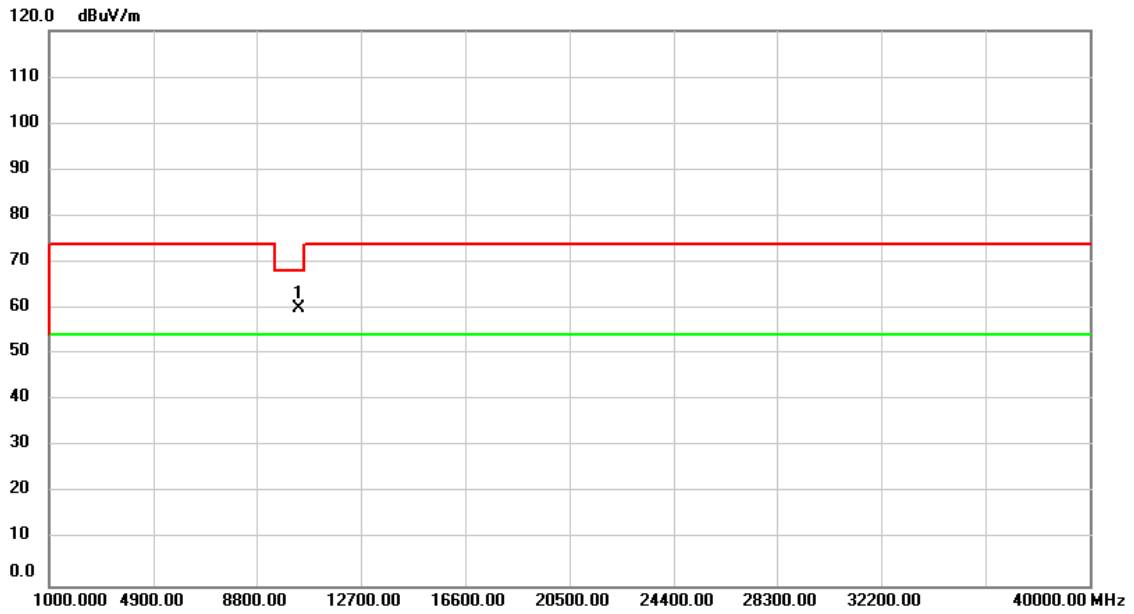
**APPENDIX C - RADIATED EMISSION
(ABOVE 1000MHZ)**

Test Mode	UNII-1/ TX A Mode 5180MHz	Polarization	Vertical
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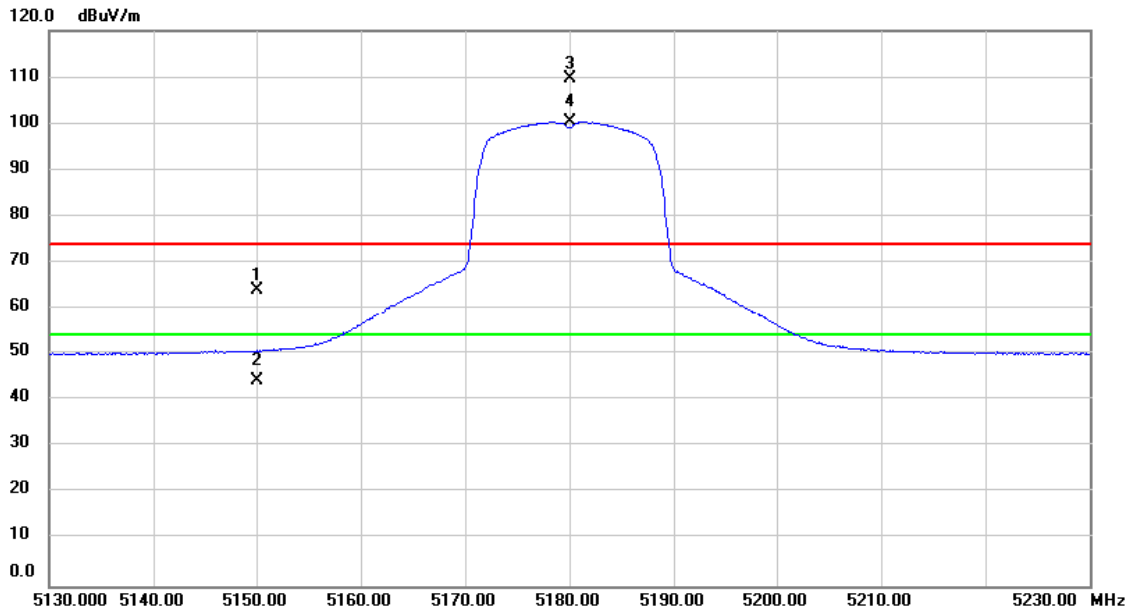
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.420	17.12	37.30	54.42	74.00	-19.58	peak	
2		5149.420	4.10	37.30	41.40	54.00	-12.60	AVG	
3	X	5180.000	66.64	37.34	103.98	74.00	29.98	peak	No Limit
4	*	5180.000	57.19	37.34	94.53	54.00	40.53	AVG	No Limit

Test Mode	UNII-1/ TX A Mode 5180MHz	Polarization	Vertical
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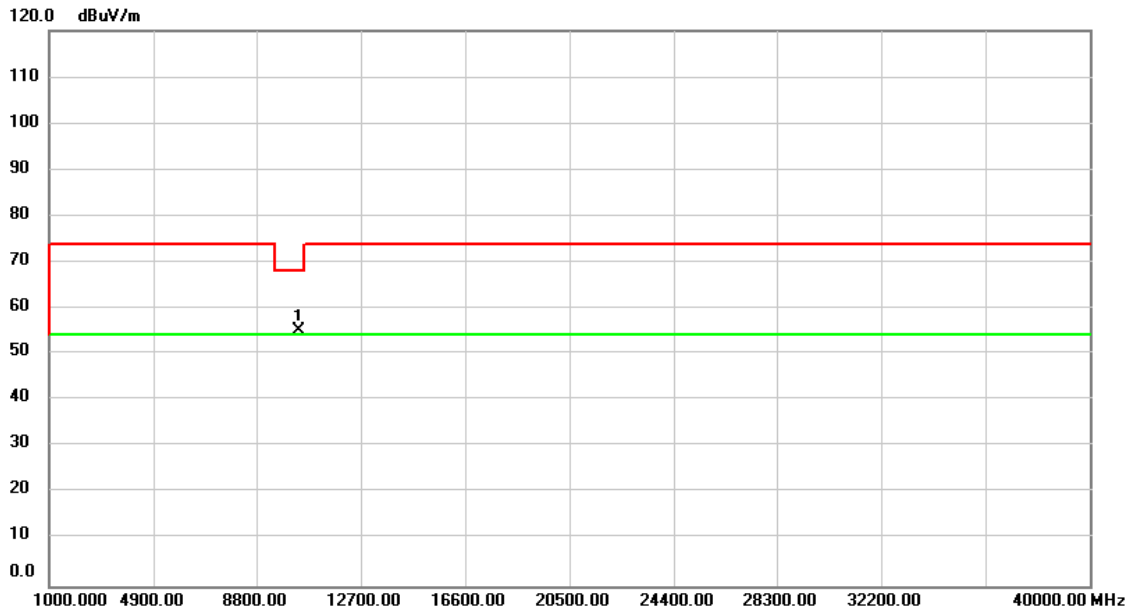
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10360.00	58.63	1.57	60.20	68.20	-8.00	peak	

Test Mode	UNII-1/ TX A Mode 5180MHz	Polarization	Horizontal
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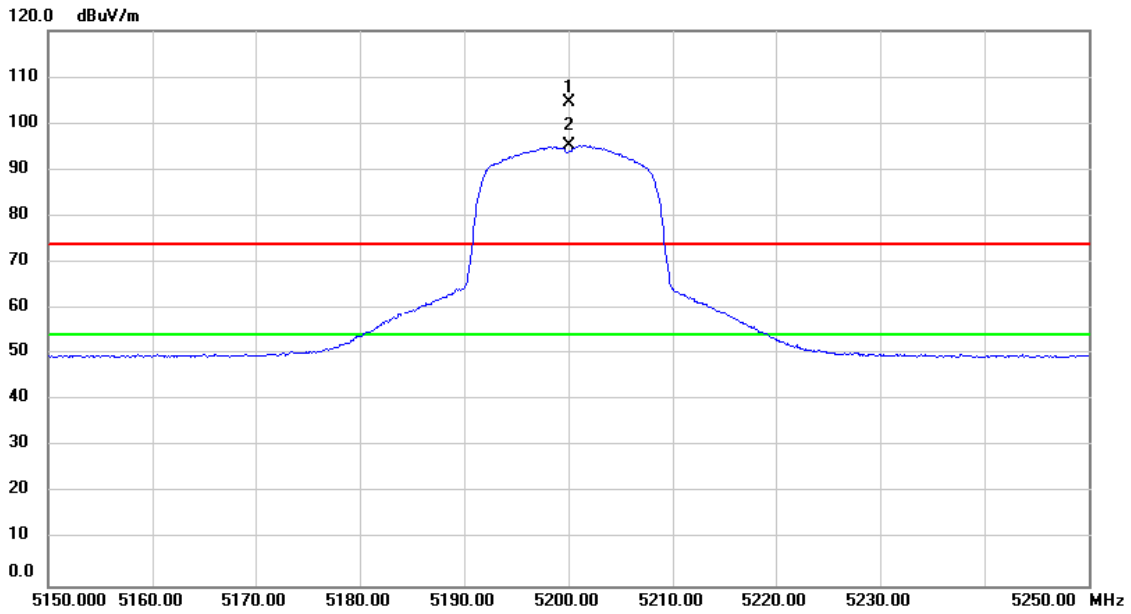
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	26.66	37.31	63.97	74.00	-10.03	peak	
2		5150.000	6.93	37.31	44.24	54.00	-9.76	AVG	
3	X	5180.000	72.33	37.34	109.67	74.00	35.67	peak	No Limit
4	*	5180.000	63.08	37.34	100.42	54.00	46.42	AVG	No Limit

Test Mode	UNII-1/ TX A Mode 5180MHz	Polarization	Horizontal
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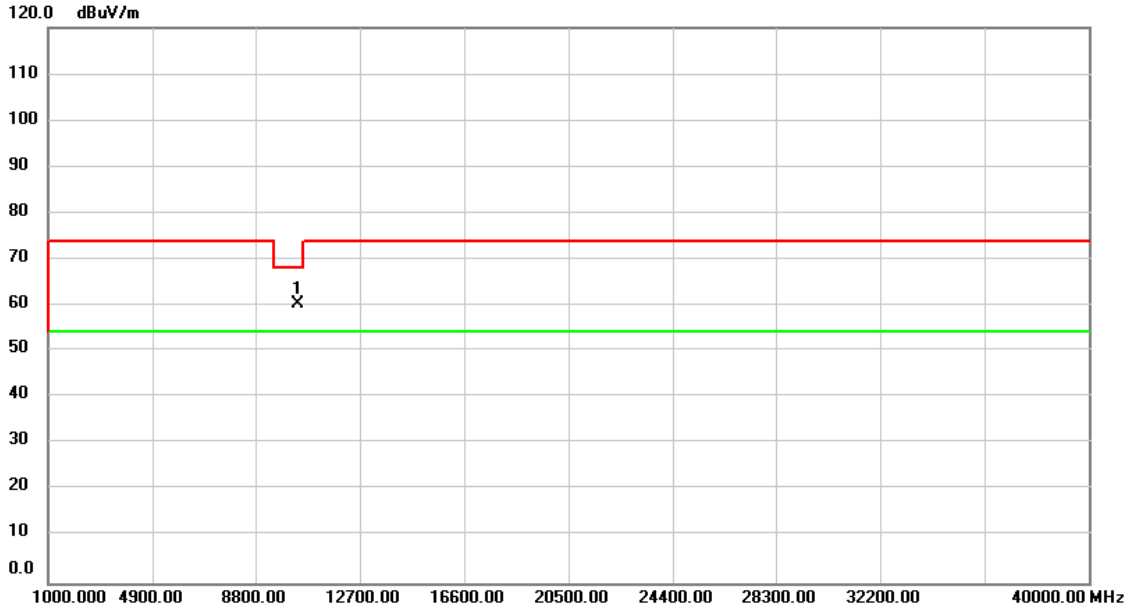
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10360.00	53.62	1.57	55.19	68.20	-13.01	peak	

Test Mode	UNII-1/ TX A Mode 5200MHz	Polarization	Vertical
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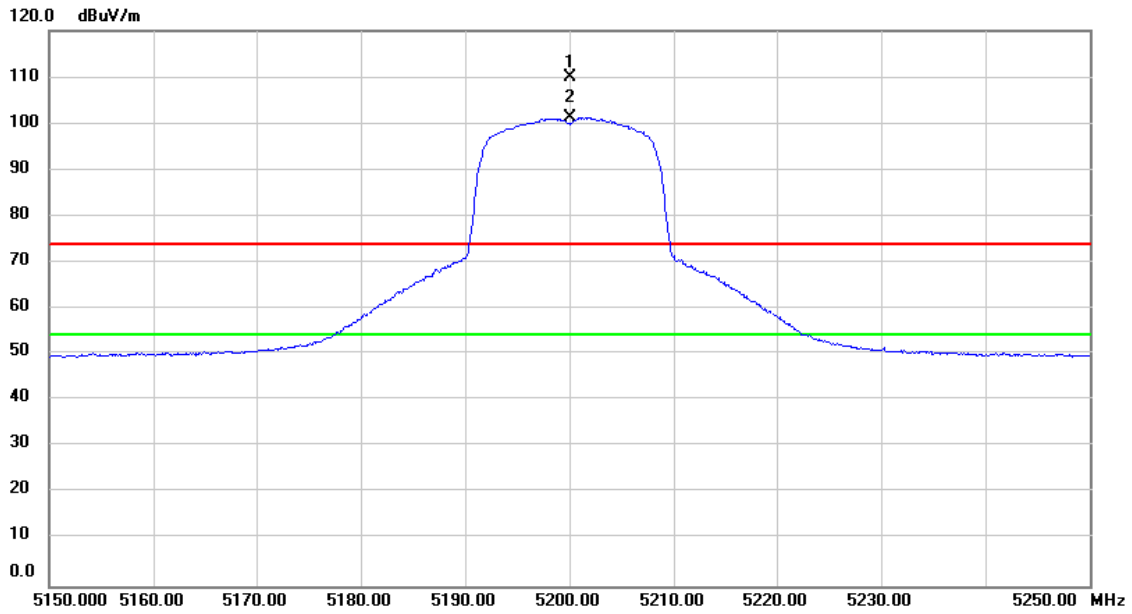
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	67.28	37.36	104.64	74.00	30.64	peak	No Limit
2	*	5200.000	57.99	37.36	95.35	54.00	41.35	AVG	No Limit

Test Mode	UNII-1/ TX A Mode 5200MHz	Polarization	Vertical
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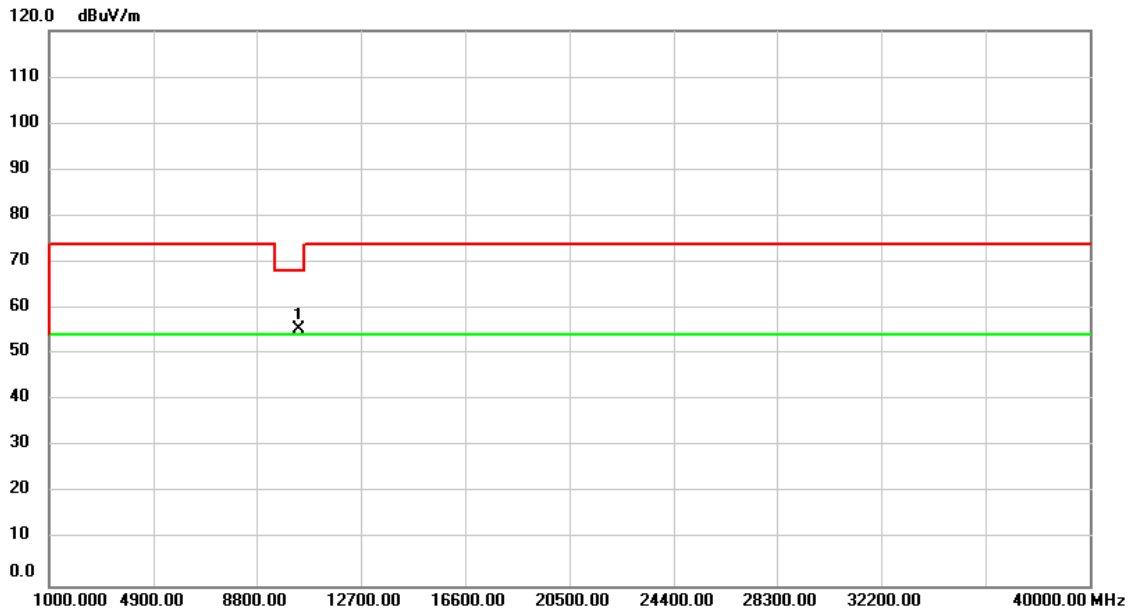
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10400.00	58.71	1.62	60.33	68.20	-7.87	peak	

Test Mode	UNII-1/ TX A Mode 5200MHz	Polarization	Horizontal
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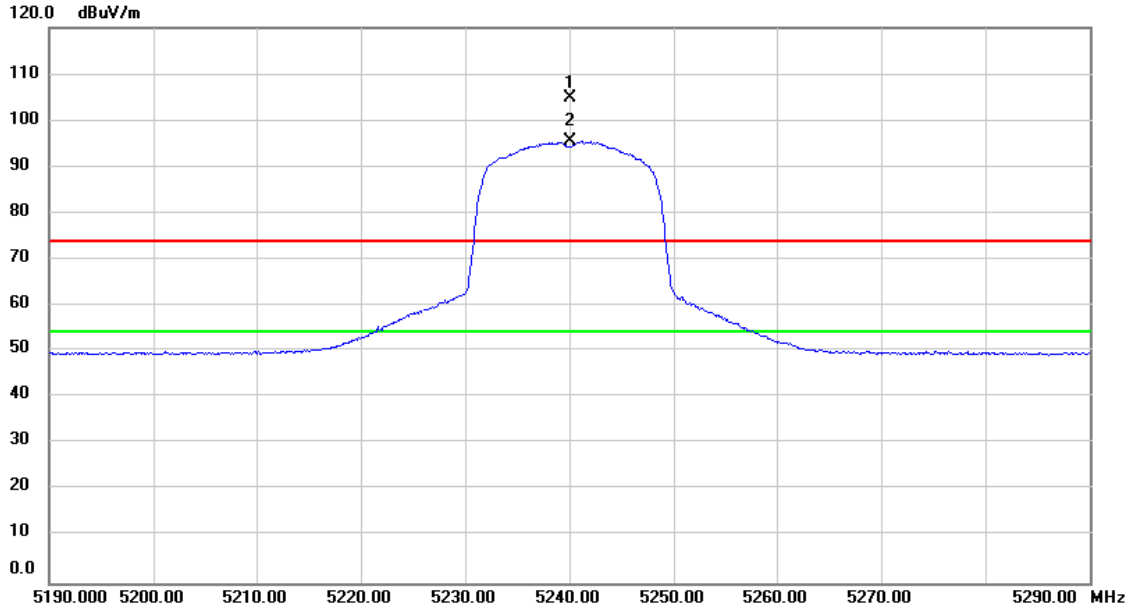
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	72.68	37.36	110.04	74.00	36.04	peak	No Limit
2	*	5200.000	63.88	37.36	101.24	54.00	47.24	AVG	No Limit

Test Mode	UNII-1/ TX A Mode 5200MHz	Polarization	Horizontal
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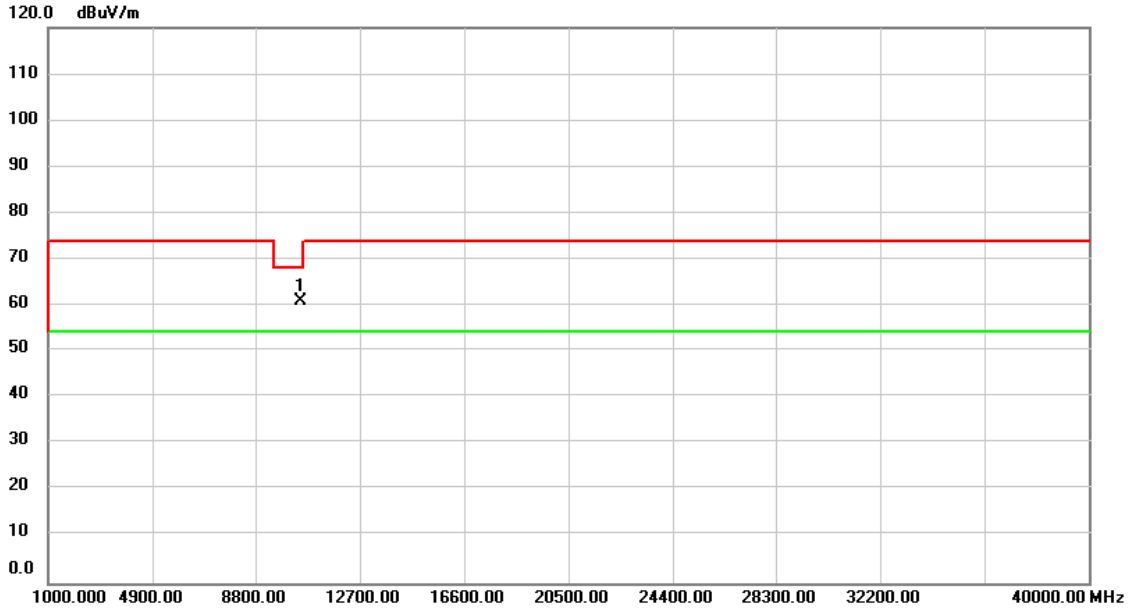
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10400.00	53.62	1.62	55.24	68.20	-12.96	peak	

Test Mode	UNII-1/ TX A Mode 5240MHz	Polarization	Vertical
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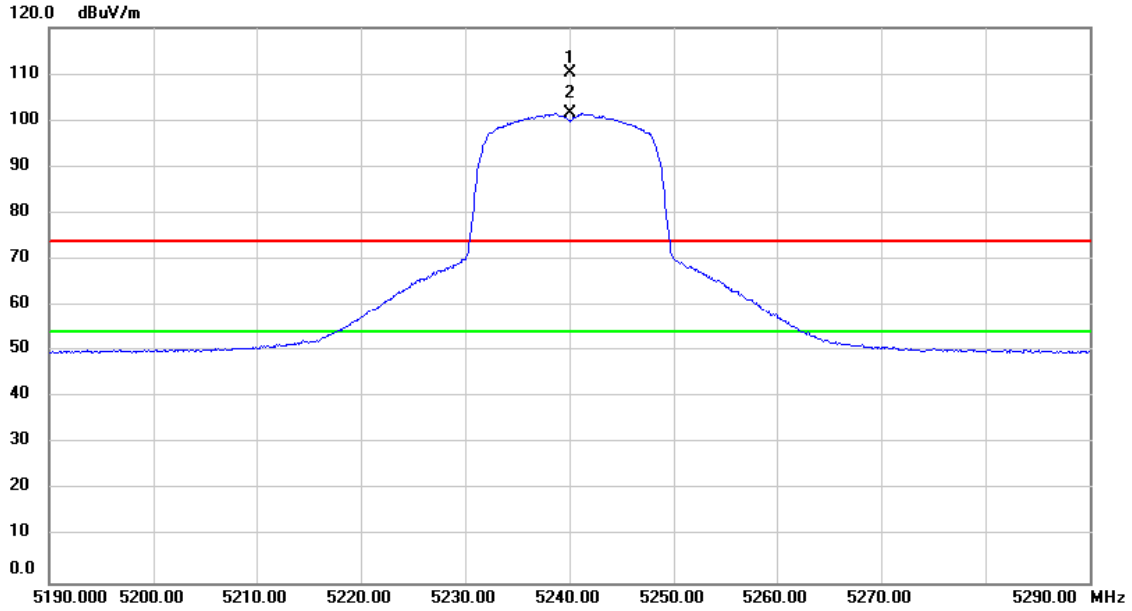
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	67.37	37.40	104.77	74.00	30.77	peak	No Limit
2	*	5240.000	58.16	37.40	95.56	54.00	41.56	AVG	No Limit

Test Mode	UNII-1/ TX A Mode 5240MHz	Polarization	Vertical
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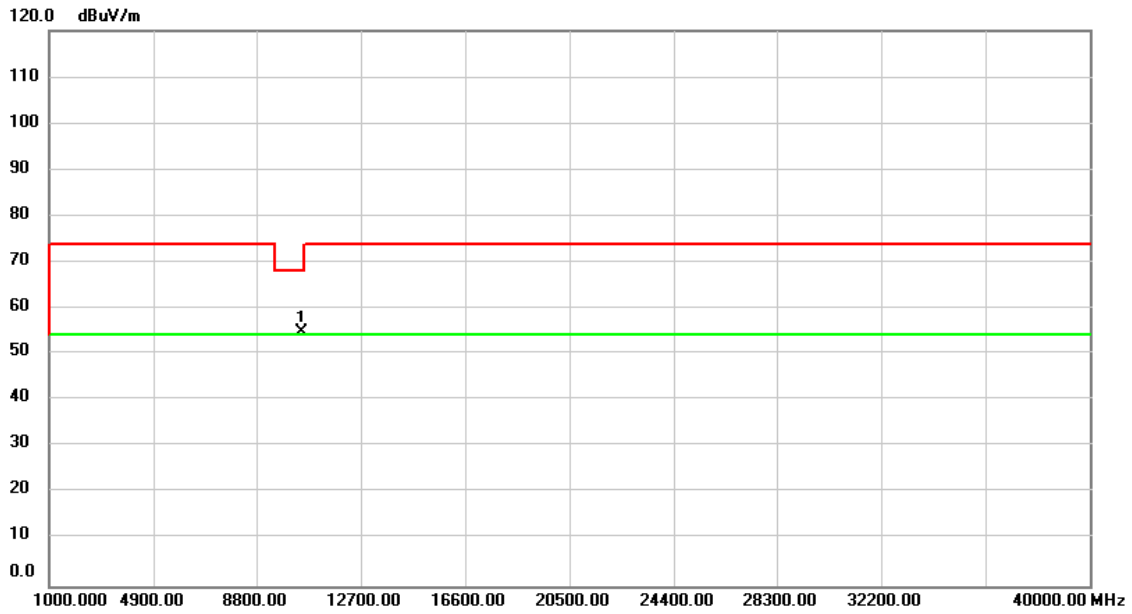
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10480.00	59.48	1.69	61.17	68.20	-7.03	peak	

Test Mode	UNII-1/ TX A Mode 5240MHz	Polarization	Horizontal
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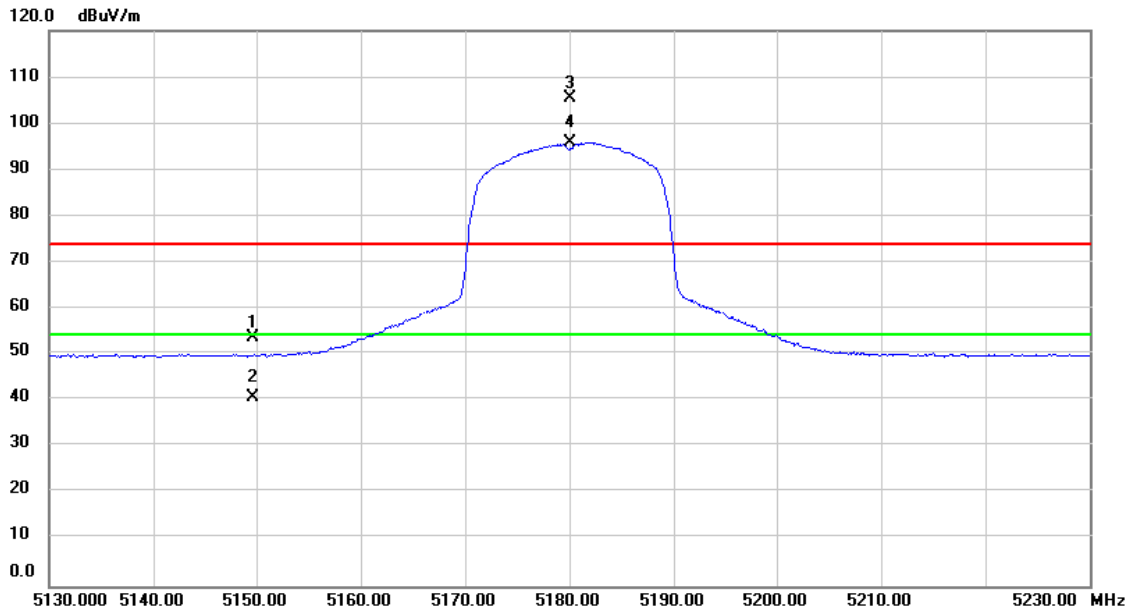
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	72.73	37.40	110.13	74.00	36.13	peak	No Limit
2	*	5240.000	64.17	37.40	101.57	54.00	47.57	AVG	No Limit

Test Mode	UNII-1/ TX A Mode 5240MHz	Polarization	Horizontal
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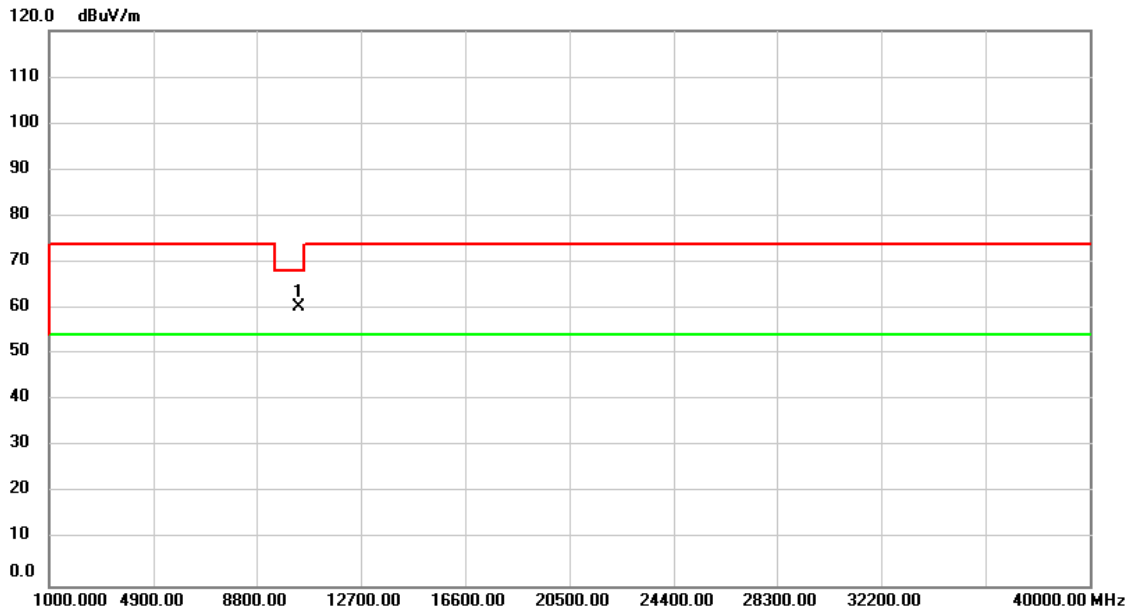
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10480.00	53.02	1.69	54.71	68.20	-13.49	peak	

Test Mode	UNII-1/ TX AC20 Mode 5180MHz	Polarization	Vertical
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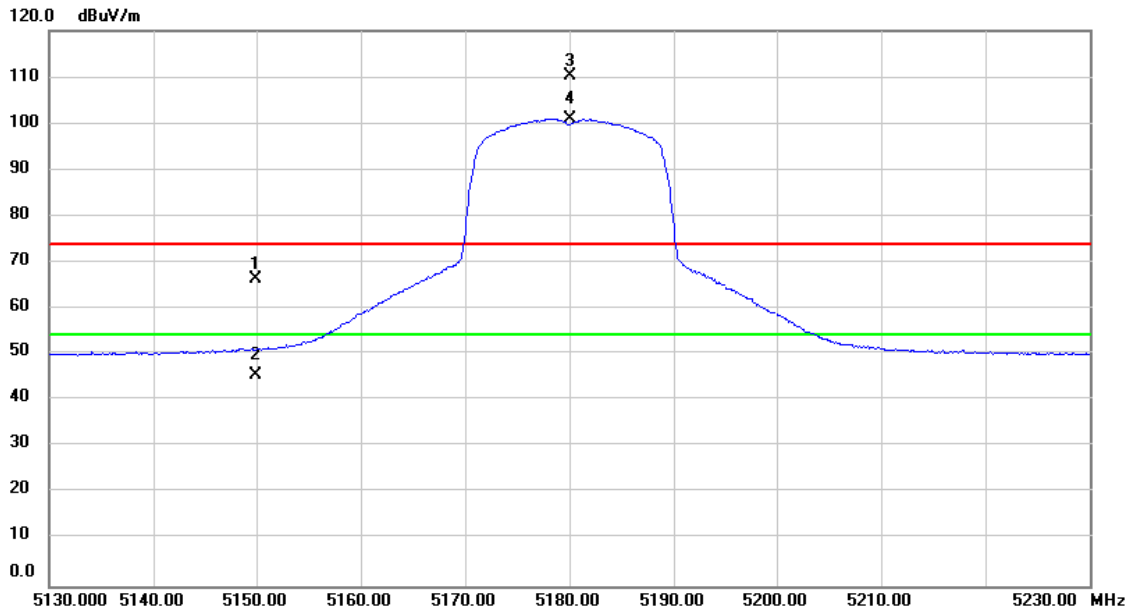
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.680	16.35	37.30	53.65	74.00	-20.35	peak	
2		5149.680	3.40	37.30	40.70	54.00	-13.30	AVG	
3	X	5180.000	68.07	37.34	105.41	74.00	31.41	peak	No Limit
4	*	5180.000	58.43	37.34	95.77	54.00	41.77	AVG	No Limit

Test Mode	UNII-1/ TX AC20 Mode 5180MHz	Polarization	Vertical
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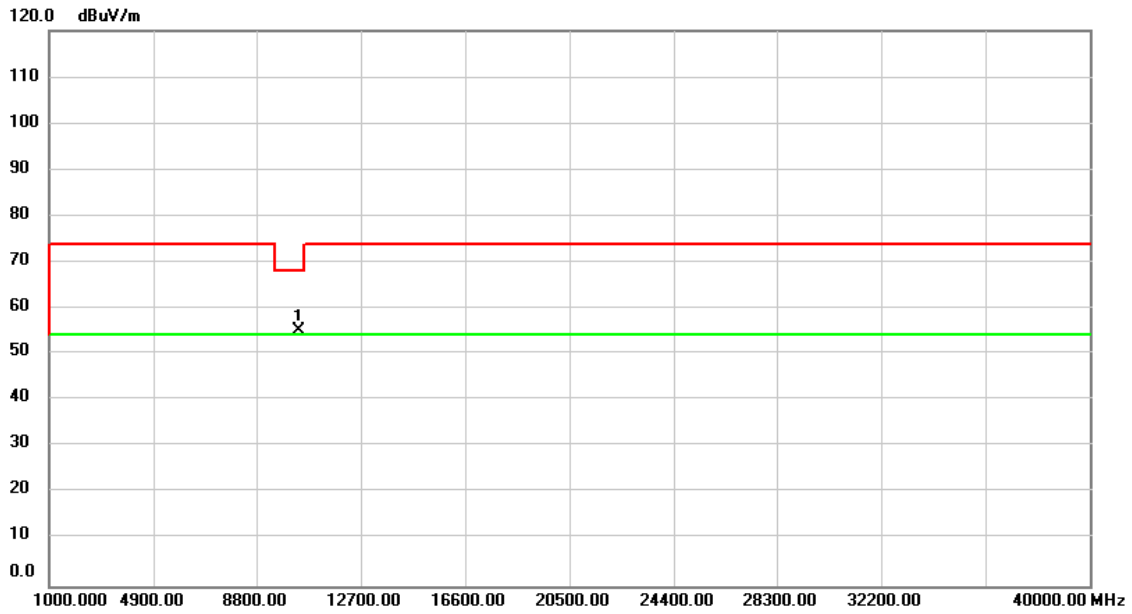
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10360.00	58.99	1.57	60.56	68.20	-7.64	peak	

Test Mode	UNII-1/ TX AC20 Mode 5180MHz	Polarization	Horizontal
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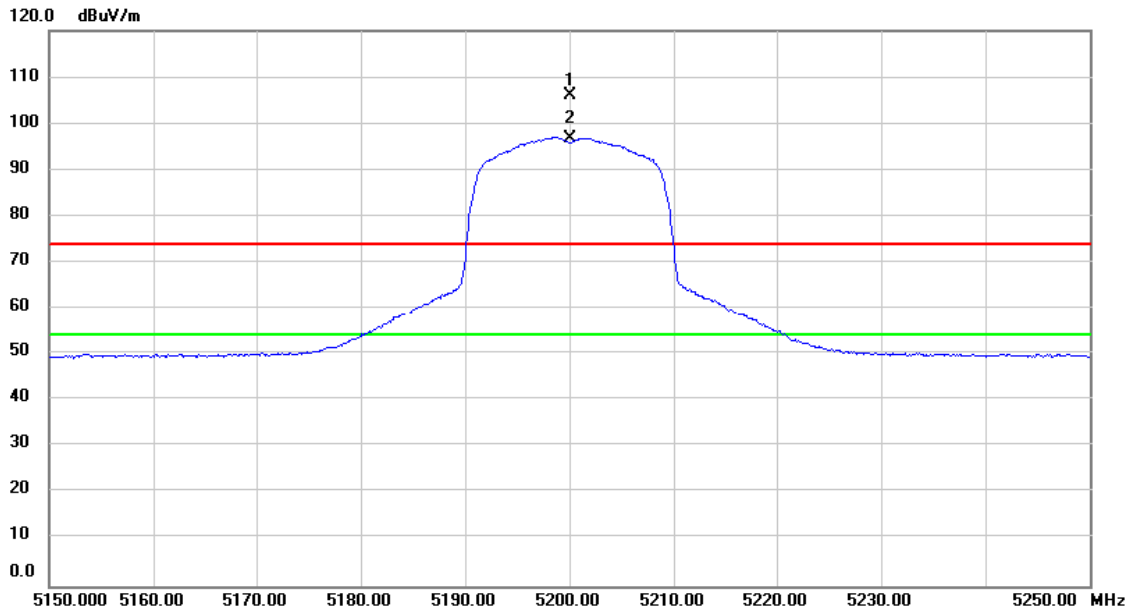
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.980	29.19	37.30	66.49	74.00	-7.51	peak	
2		5149.980	8.20	37.30	45.50	54.00	-8.50	AVG	
3	X	5180.000	72.91	37.34	110.25	74.00	36.25	peak	No Limit
4	*	5180.000	63.48	37.34	100.82	54.00	46.82	AVG	No Limit

Test Mode	UNII-1/ TX AC20 Mode 5180MHz	Polarization	Horizontal
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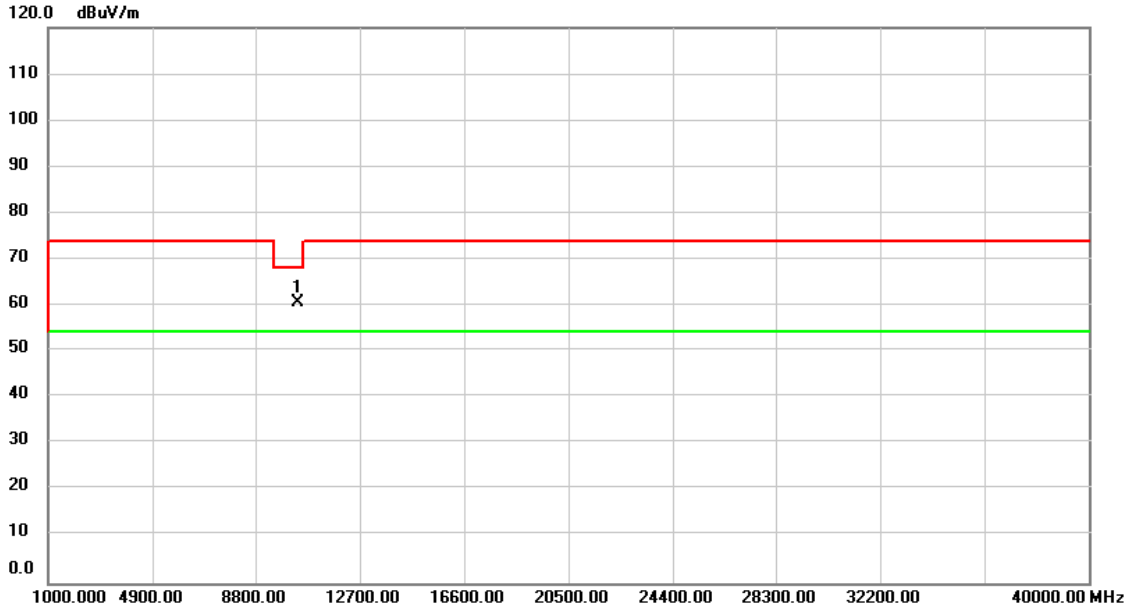
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10360.00	53.36	1.57	54.93	68.20	-13.27	peak	

Test Mode	UNII-1/ TX AC20 Mode 5200MHz	Polarization	Vertical
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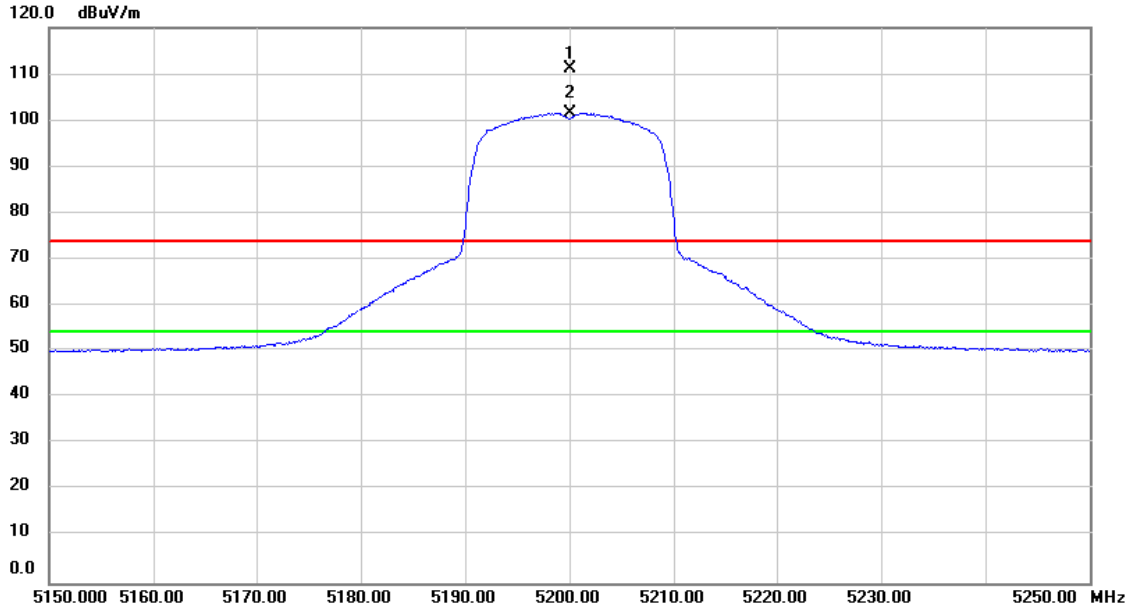
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	68.75	37.36	106.11	74.00	32.11	peak	No Limit
2	*	5200.000	59.35	37.36	96.71	54.00	42.71	AVG	No Limit

Test Mode	UNII-1/ TX AC20 Mode 5200MHz	Polarization	Vertical
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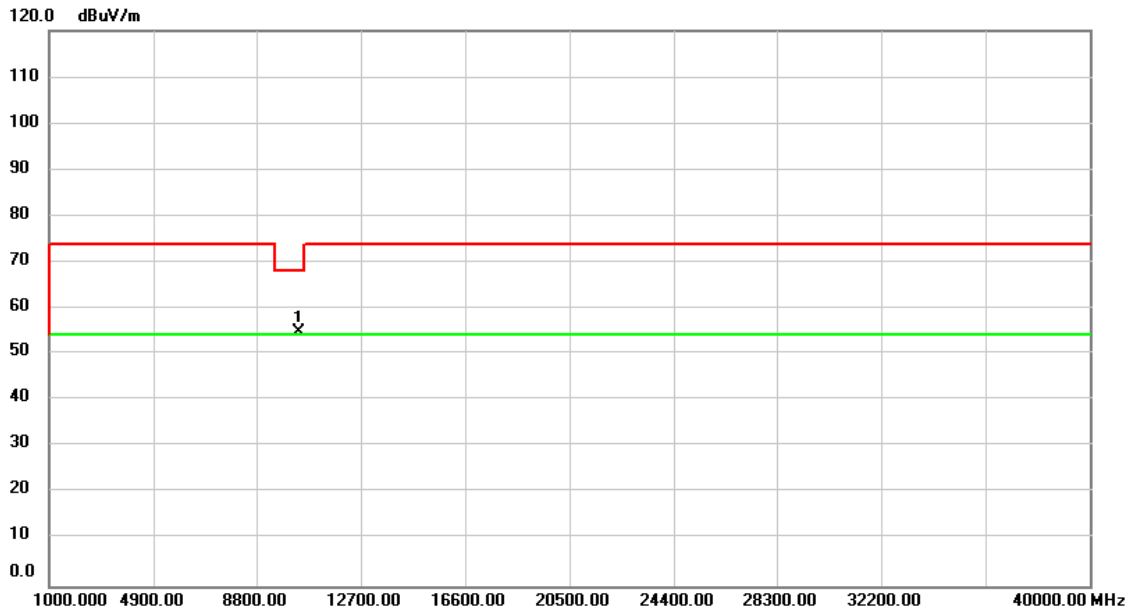
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10400.00	59.03	1.62	60.65	68.20	-7.55	peak	

Test Mode	UNII-1/ TX AC20 Mode 5200MHz	Polarization	Horizontal
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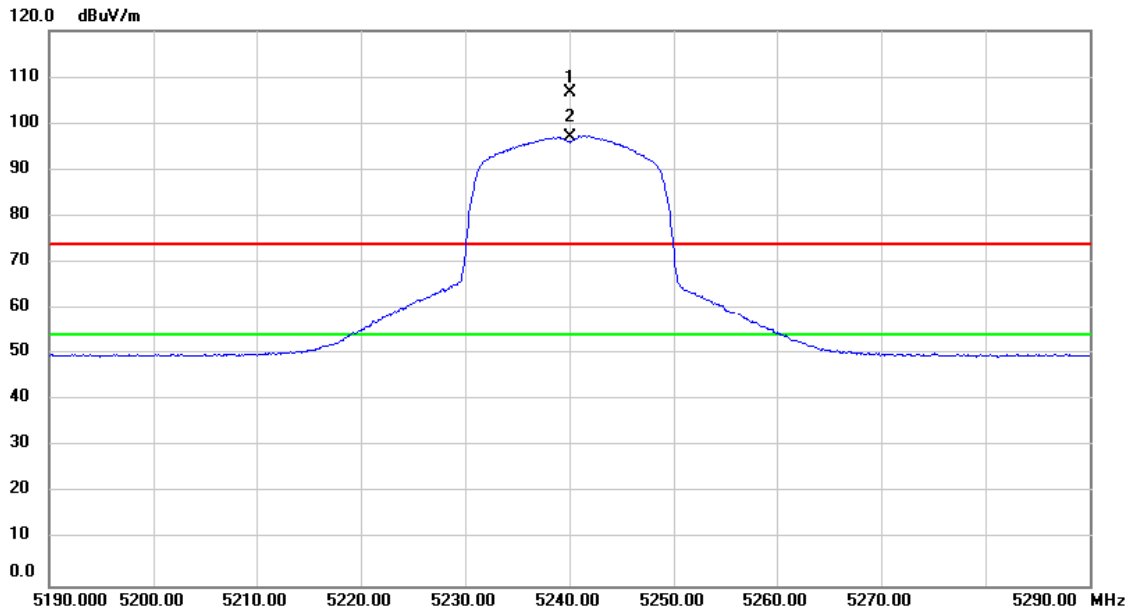
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5200.000	73.91	37.36	111.27	74.00	37.27	peak	No Limit
2	*	5200.000	64.26	37.36	101.62	54.00	47.62	AVG	No Limit

Test Mode	UNII-1/ TX AC20 Mode 5200MHz	Polarization	Horizontal
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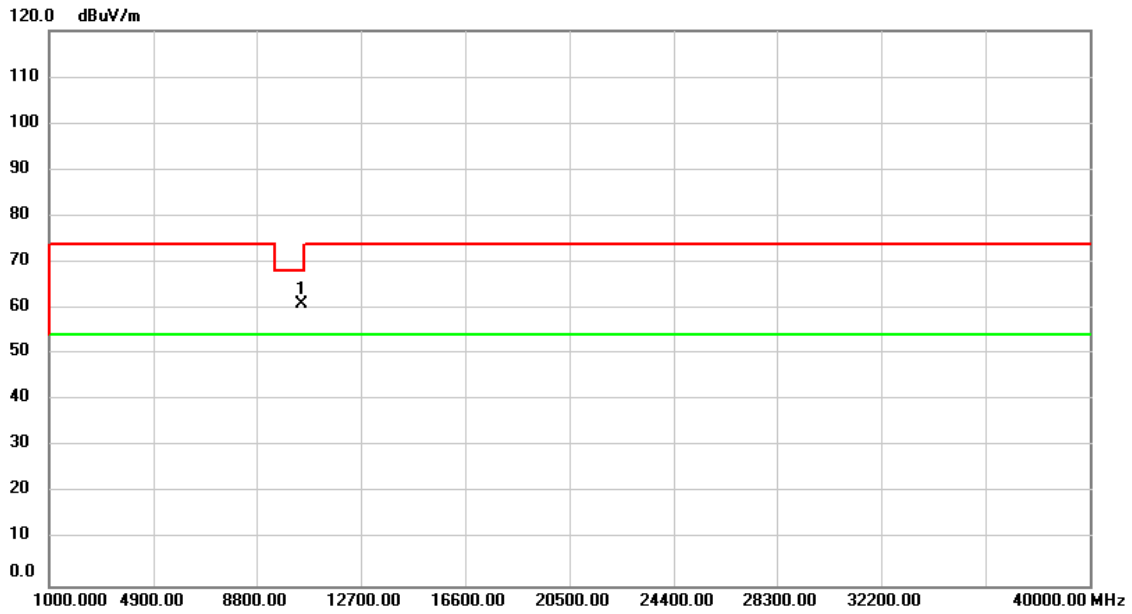
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10400.00	53.27	1.62	54.89	68.20	-13.31	peak	

Test Mode	UNII-1/ TX AC20 Mode 5240MHz	Polarization	Vertical
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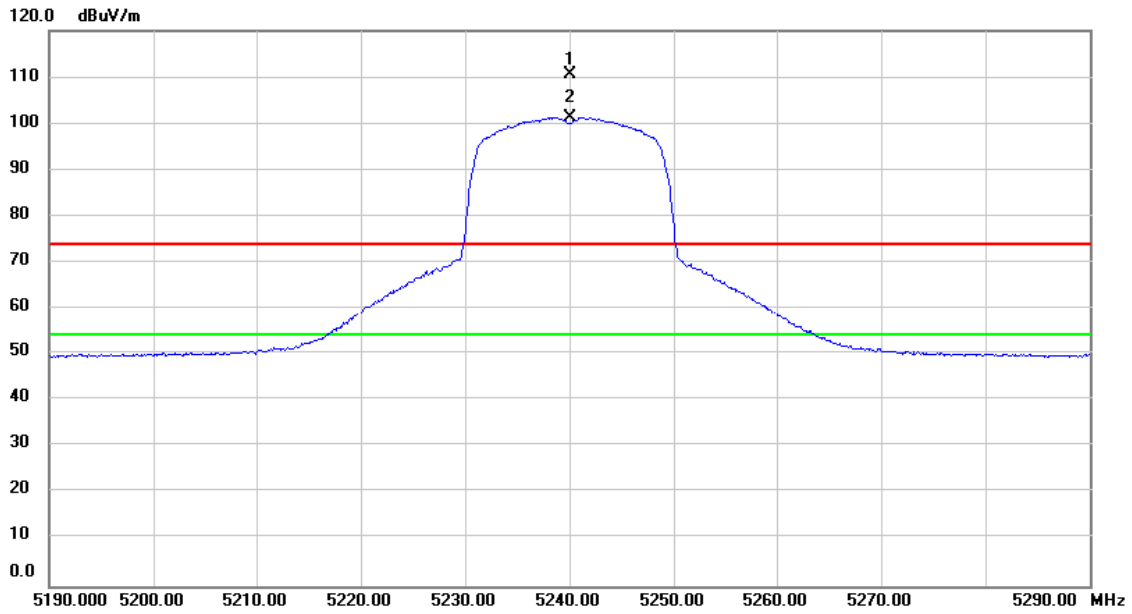
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	69.25	37.40	106.65	74.00	32.65	peak	No Limit
2	*	5240.000	59.79	37.40	97.19	54.00	43.19	AVG	No Limit

Test Mode	UNII-1/ TX AC20 Mode 5240MHz	Polarization	Vertical
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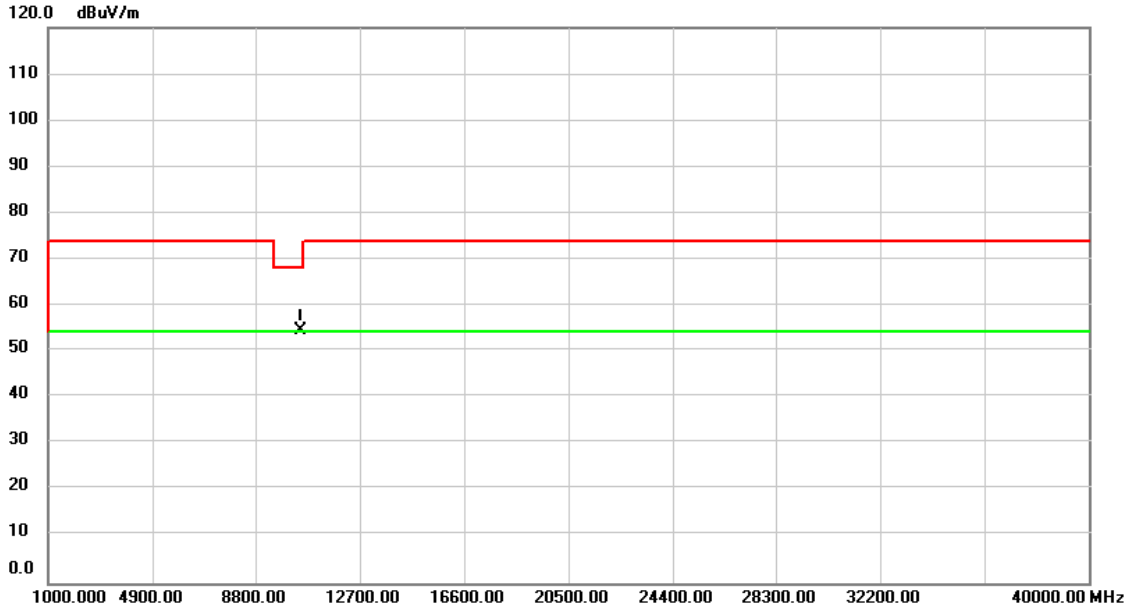
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10480.00	59.37	1.69	61.06	68.20	-7.14	peak	

Test Mode	UNII-1/ TX AC20 Mode 5240MHz	Polarization	Horizontal
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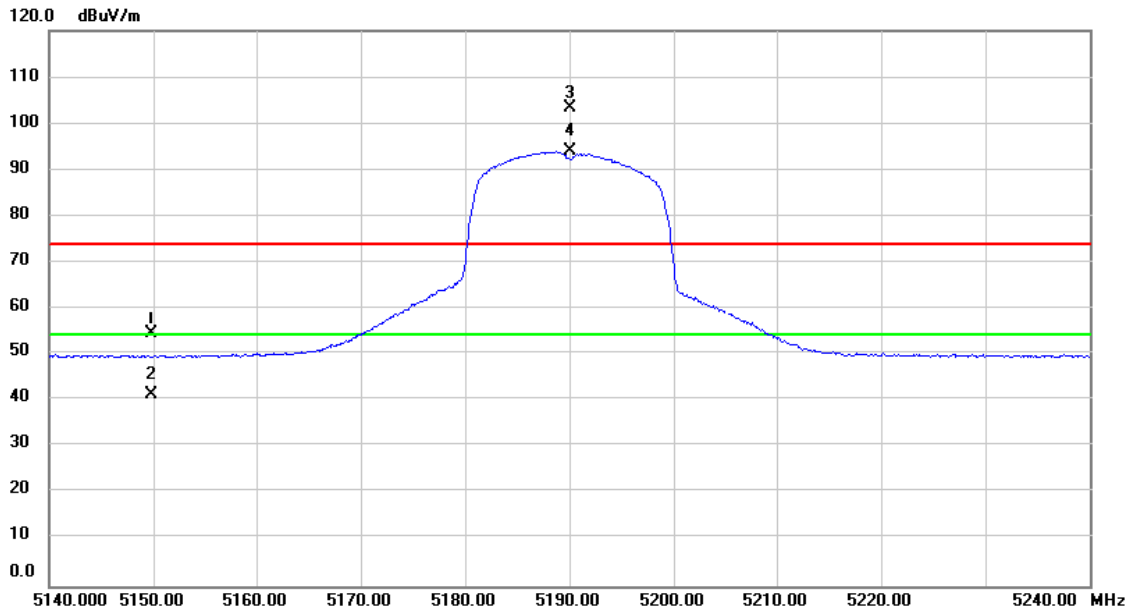
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5240.000	73.28	37.40	110.68	74.00	36.68	peak	No Limit
2	*	5240.000	63.90	37.40	101.30	54.00	47.30	AVG	No Limit

Test Mode	UNII-1/ TX AC20 Mode 5240MHz	Polarization	Horizontal
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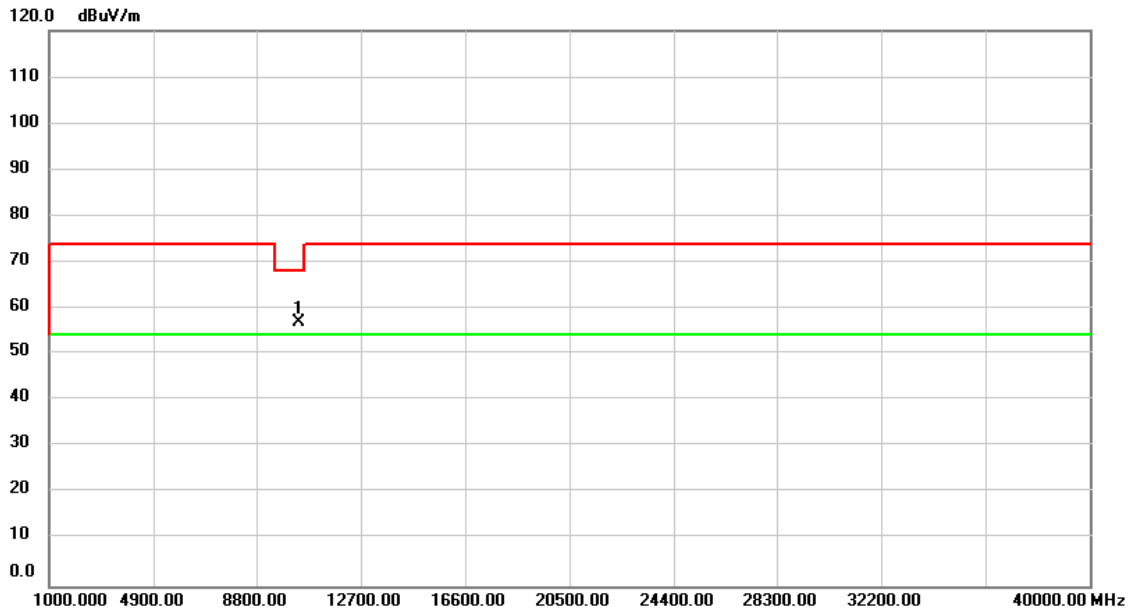
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10480.00	52.75	1.69	54.44	68.20	-13.76	peak	

Test Mode	UNII-1/ TX AC40 Mode 5190MHz	Polarization	Vertical
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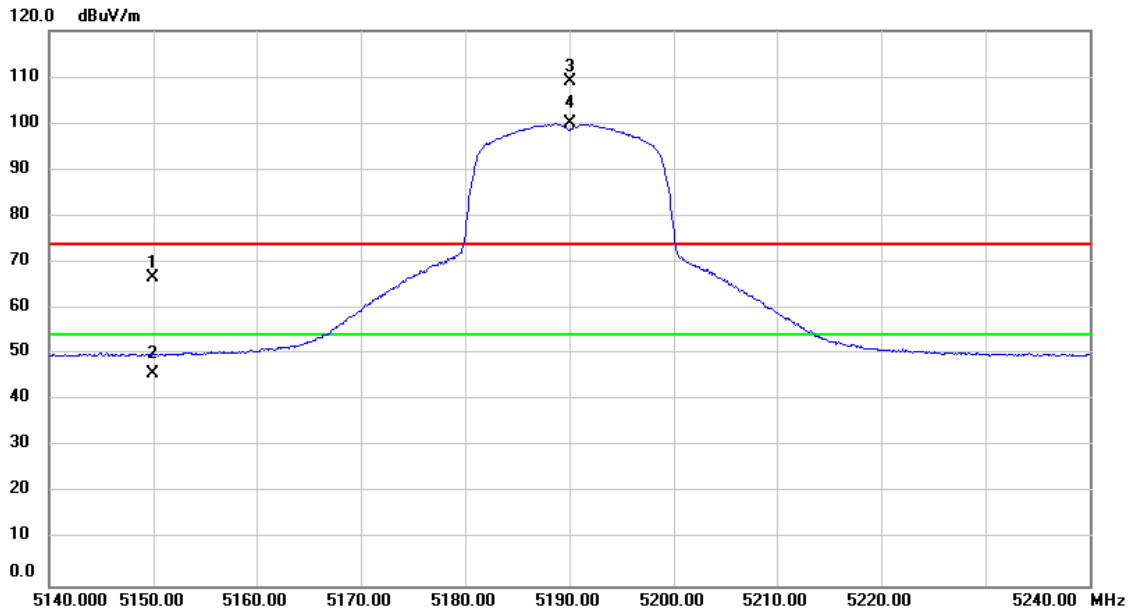
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.800	17.02	37.30	54.32	74.00	-19.68	peak	
2		5149.800	4.10	37.30	41.40	54.00	-12.60	AVG	
3	X	5190.000	66.06	37.34	103.40	74.00	29.40	peak	No Limit
4	*	5190.000	56.63	37.34	93.97	54.00	39.97	AVG	No Limit

Test Mode	UNII-1/ TX AC40 Mode 5190MHz	Polarization	Vertical
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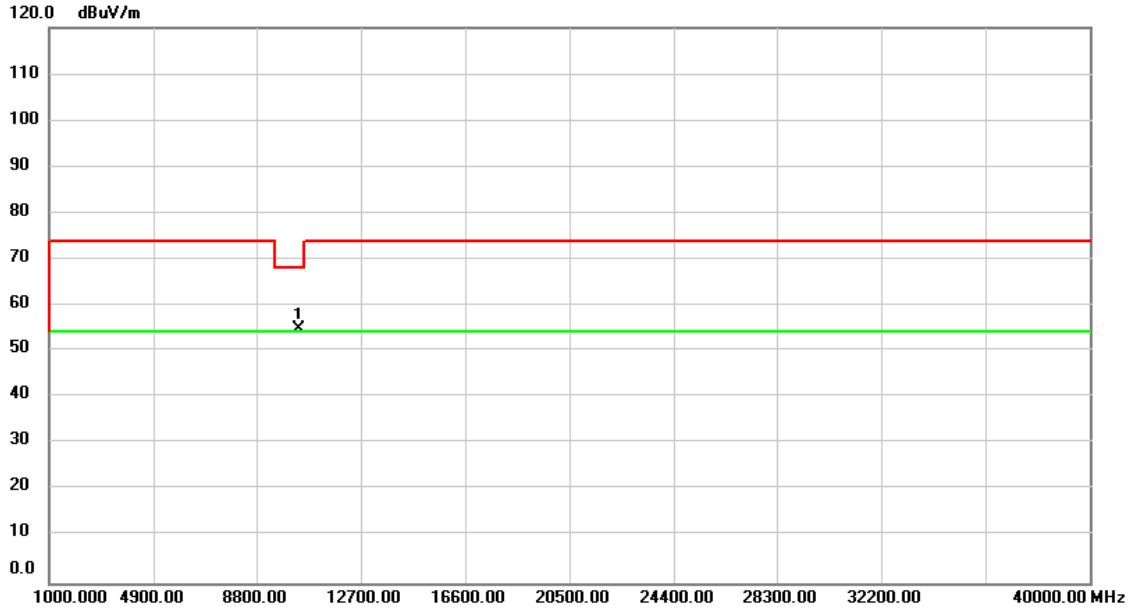
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10380.00	55.33	1.59	56.92	68.20	-11.28	peak	

Test Mode	UNII-1/ TX AC40 Mode 5190MHz	Polarization	Horizontal
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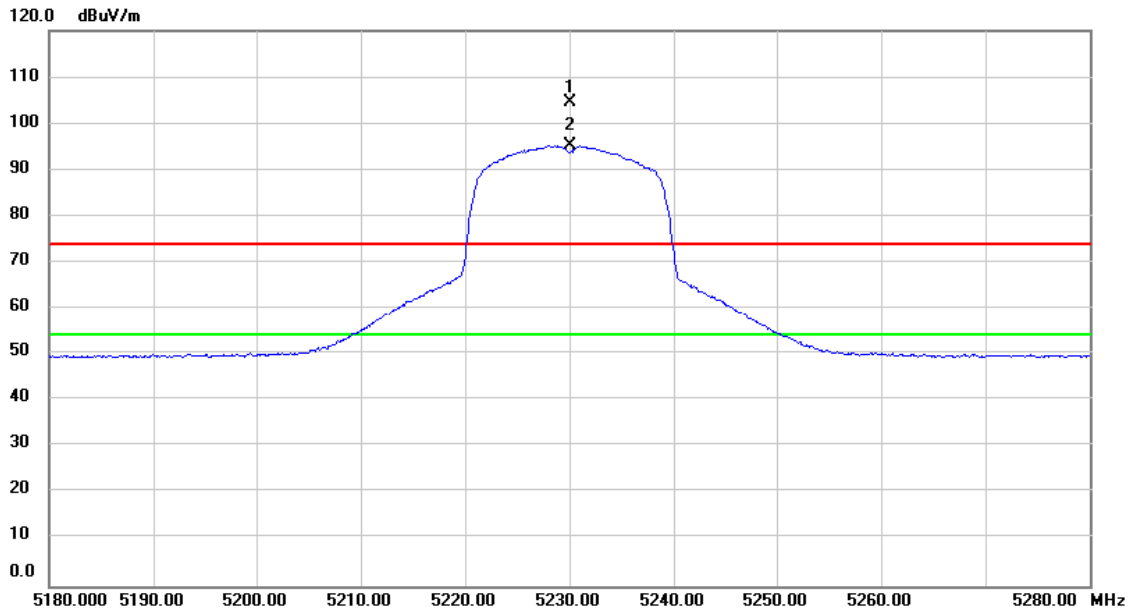
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.900	29.41	37.30	66.71	74.00	-7.29	peak	
2		5149.900	8.60	37.30	45.90	54.00	-8.10	AVG	
3	X	5190.000	71.85	37.34	109.19	74.00	35.19	peak	No Limit
4	*	5190.000	62.70	37.34	100.04	54.00	46.04	AVG	No Limit

Test Mode	UNII-1/ TX AC40 Mode 5190MHz	Polarization	Horizontal
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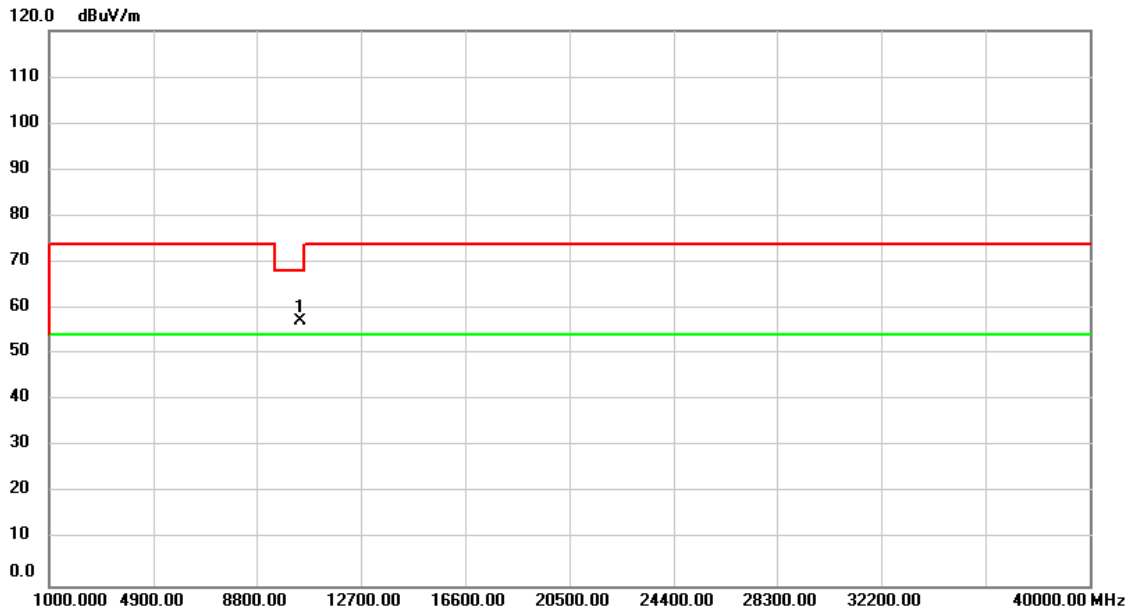
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10380.00	53.09	1.59	54.68	68.20	-13.52	peak	

Test Mode	UNII-1/ TX AC40 Mode 5230MHz	Polarization	Vertical
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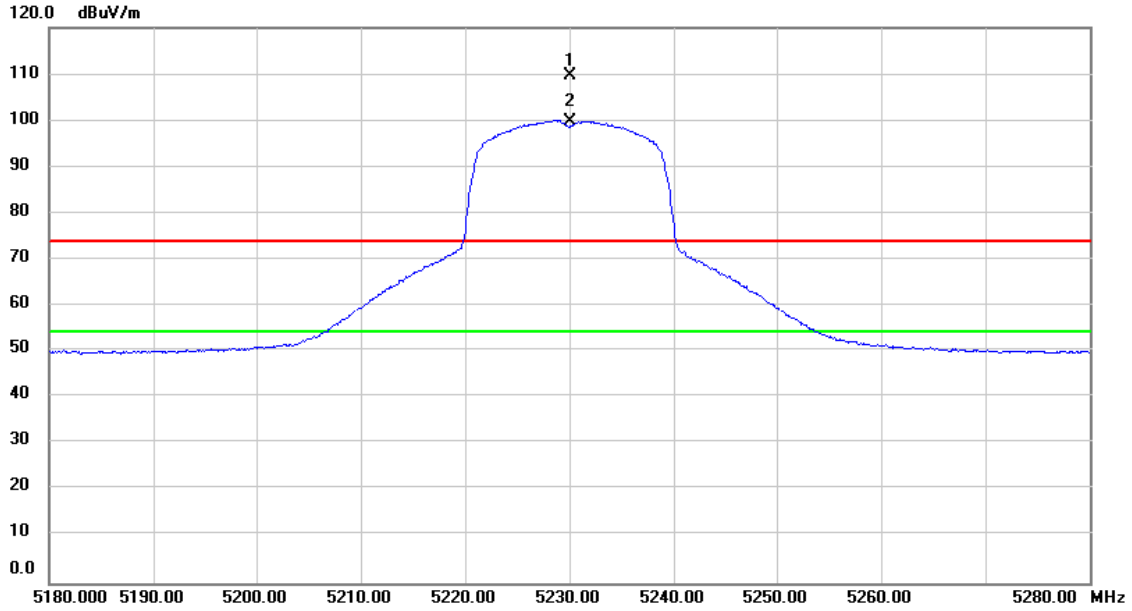
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5230.000	67.12	37.40	104.52	74.00	30.52	peak	No Limit
2	*	5230.000	57.75	37.40	95.15	54.00	41.15	AVG	No Limit

Test Mode	UNII-1/ TX AC40 Mode 5230MHz	Polarization	Vertical
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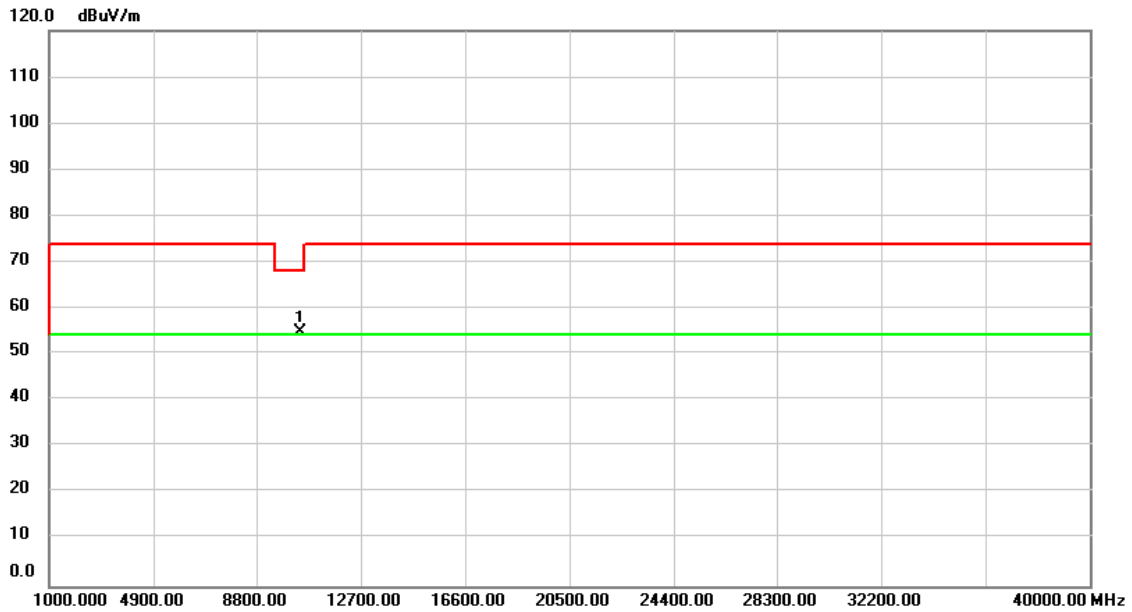
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10460.00	55.38	1.68	57.06	68.20	-11.14	peak	

Test Mode	UNII-1/ TX AC40 Mode 5230MHz	Polarization	Horizontal
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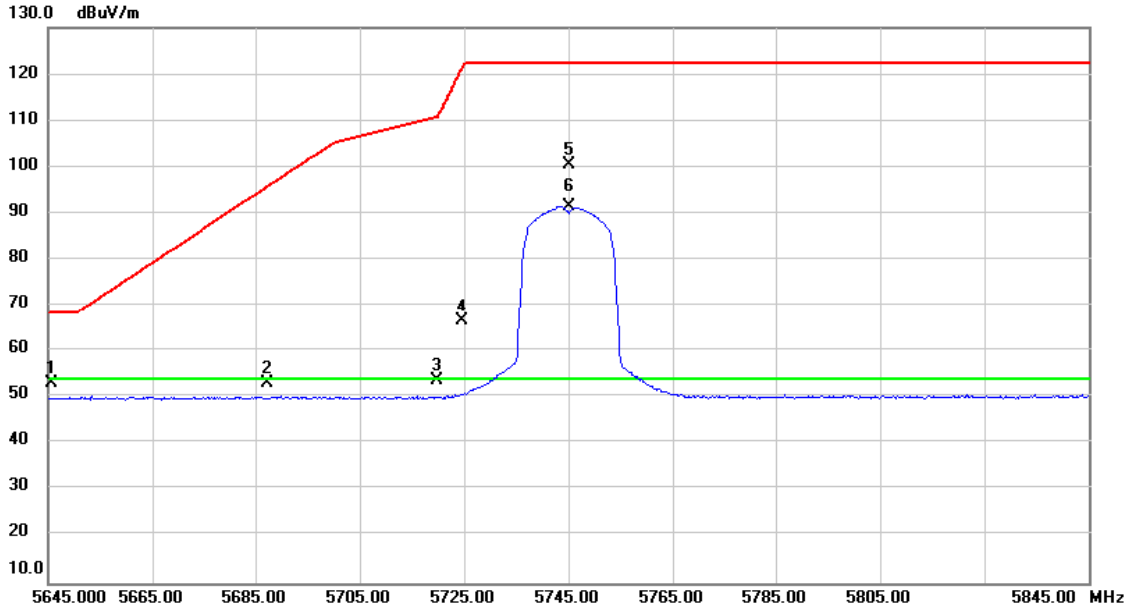
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5230.000	72.18	37.40	109.58	74.00	35.58	peak	No Limit
2	*	5230.000	62.48	37.40	99.88	54.00	45.88	AVG	No Limit

Test Mode	UNII-1/ TX AC40 Mode 5230MHz	Polarization	Horizontal
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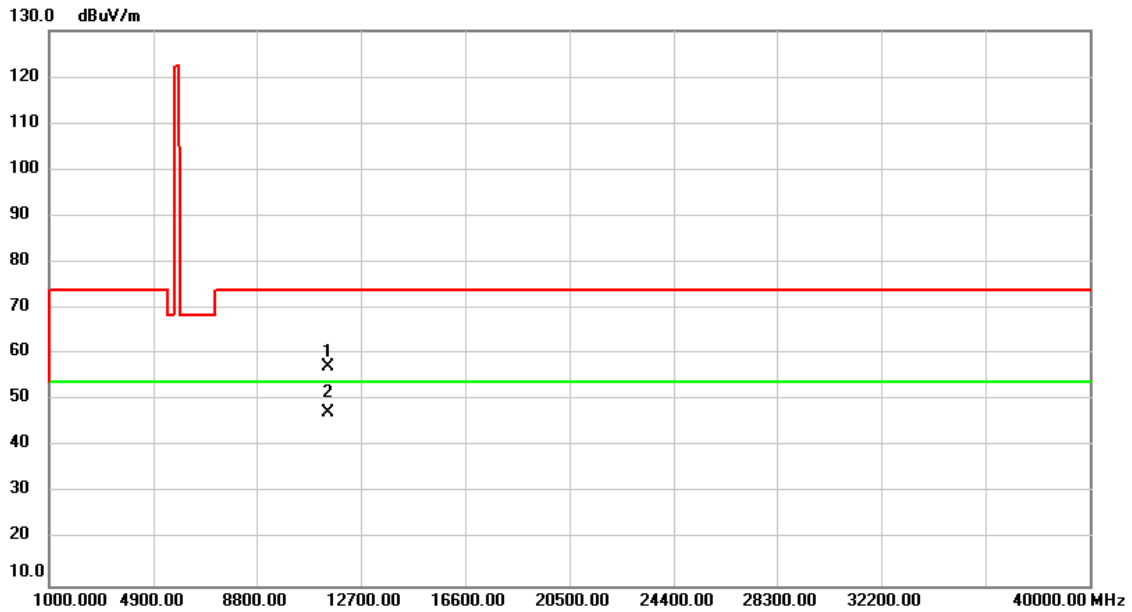
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	10460.00	53.03	1.68	54.71	68.20	-13.49	peak	

Test Mode	UNII-3/ TX A Mode 5745MHz	Polarization	Vertical
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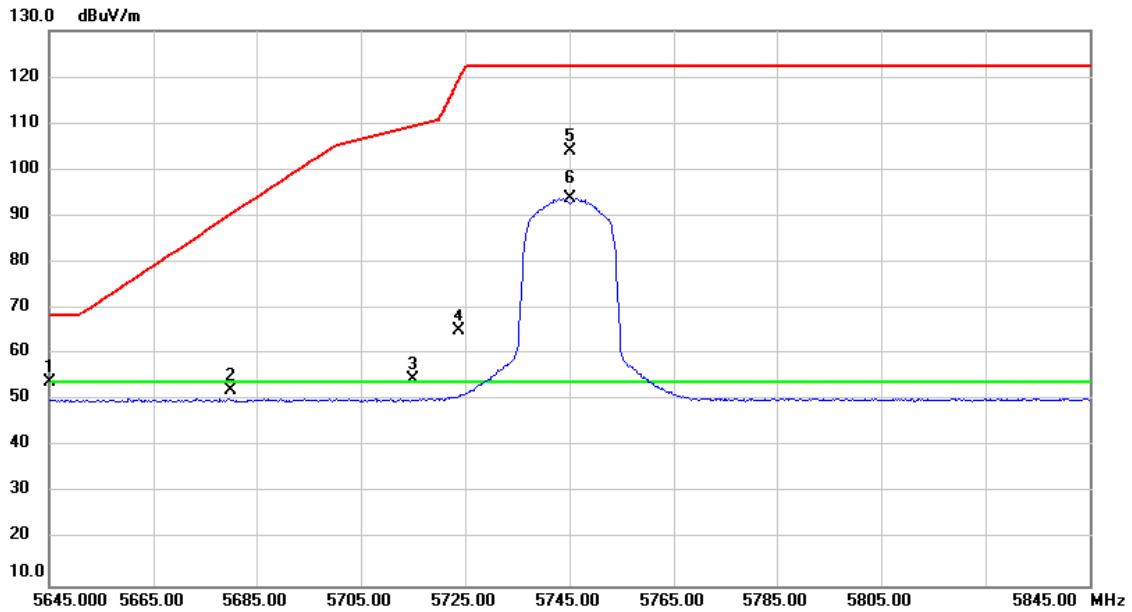
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5645.615	15.16	37.99	53.15	68.20	-15.05	peak	
2		5687.400	14.94	38.08	53.02	95.91	-42.89	peak	
3		5719.820	15.57	38.14	53.71	110.75	-57.04	peak	
4		5724.575	28.44	38.15	66.59	121.23	-54.64	peak	
5		5745.000	62.35	38.19	100.54	122.20	-21.66	peak	No Limit
6	*	5745.000	53.35	38.19	91.54	54.00	37.54	AVG	No Limit

Test Mode	UNII-3/ TX A Mode 5745MHz	Polarization	Vertical
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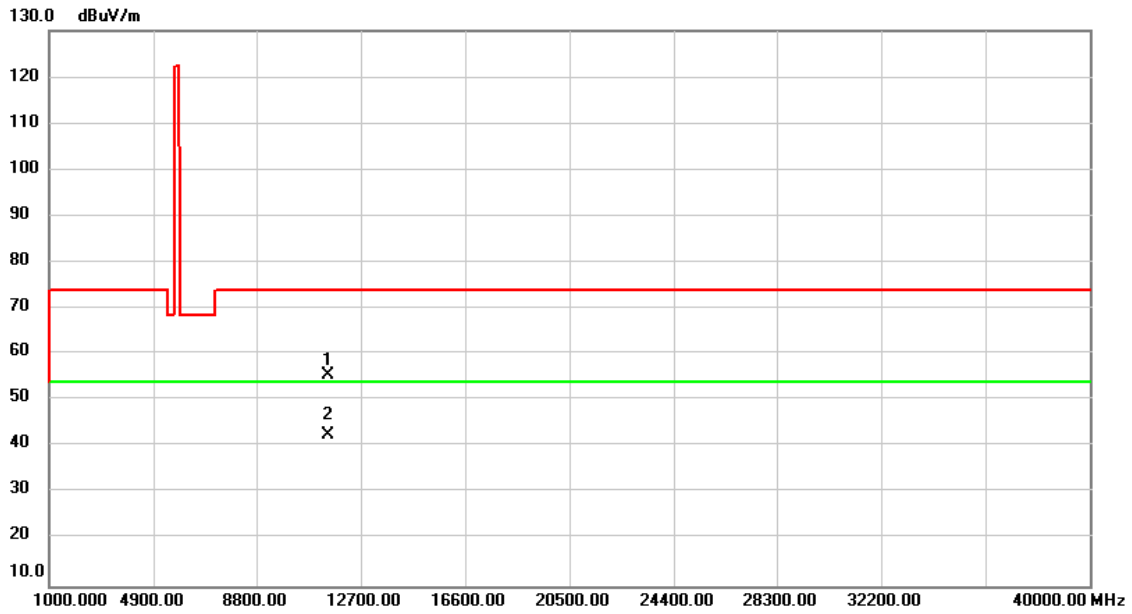
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	54.22	2.89	57.11	74.00	-16.89	peak	
2	*	11490.00	44.58	2.89	47.47	54.00	-6.53	AVG	

Test Mode	UNII-3/ TX A Mode 5745MHz	Polarization	Horizontal
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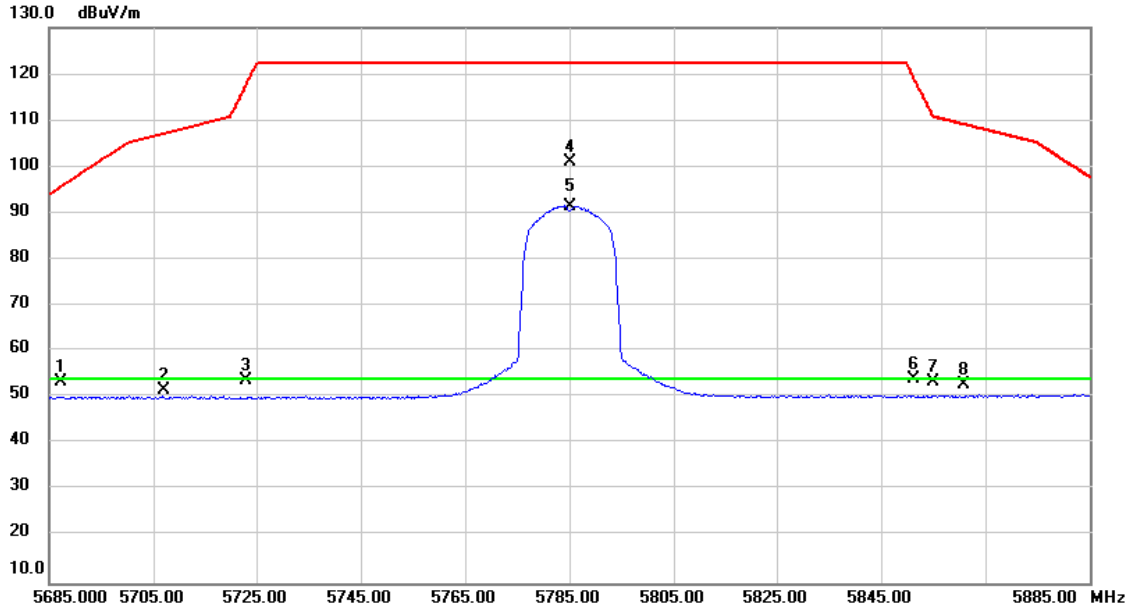
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5645.055	16.07	37.99	54.06	68.20	-14.14	peak	
2		5680.000	14.18	38.06	52.24	90.44	-38.20	peak	
3		5714.900	16.38	38.13	54.51	109.37	-54.86	peak	
4		5723.850	26.84	38.15	64.99	119.58	-54.59	peak	
5		5745.000	65.78	38.19	103.97	122.20	-18.23	peak	No Limit
6	*	5745.000	55.53	38.19	93.72	54.00	39.72	AVG	No Limit

Test Mode	UNII-3/ TX A Mode 5745MHz	Polarization	Horizontal
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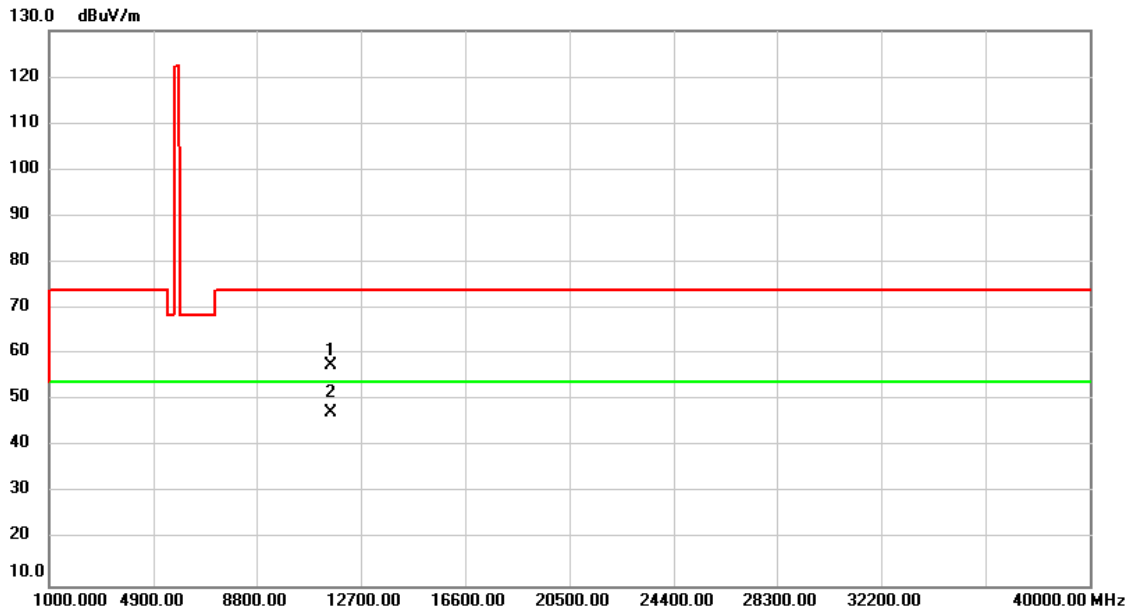
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	52.49	2.89	55.38	74.00	-18.62	peak	
2	*	11490.00	39.52	2.89	42.41	54.00	-11.59	AVG	

Test Mode	UNII-3/ TX A Mode 5785MHz	Polarization	Vertical
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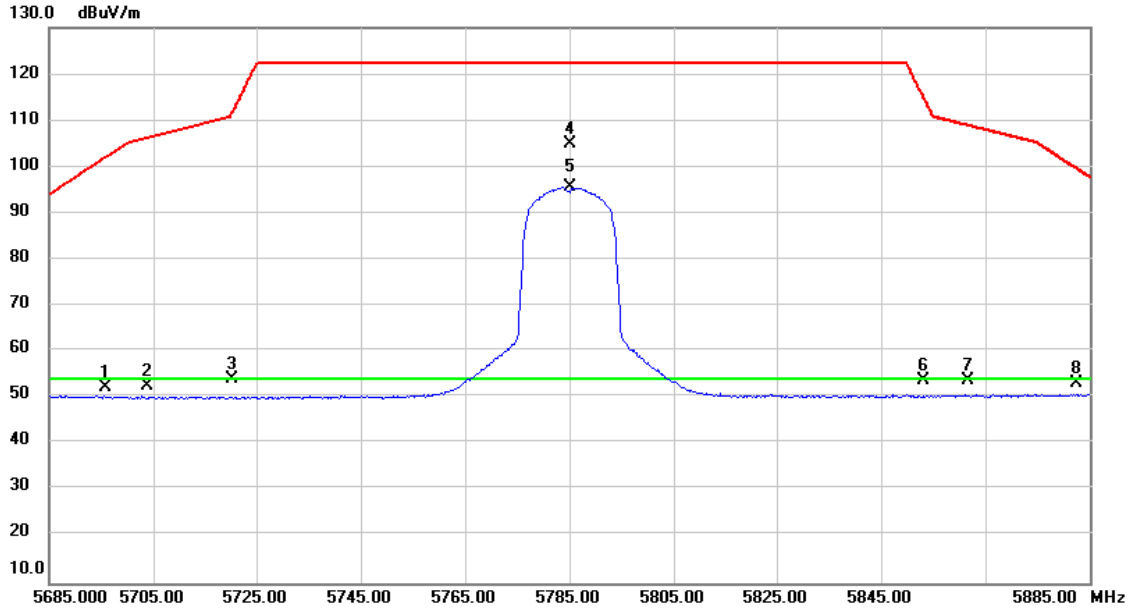
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5687.310	15.14	38.08	53.22	95.84	-42.62	peak	
2		5706.900	13.54	38.12	51.66	107.13	-55.47	peak	
3		5722.965	15.47	38.15	53.62	117.56	-63.94	peak	
4		5785.000	62.73	38.28	101.01	122.20	-21.19	peak	No Limit
5	*	5785.000	53.14	38.28	91.42	54.00	37.42	AVG	No Limit
6		5851.285	15.59	38.41	54.00	119.27	-65.27	peak	
7		5855.000	14.83	38.42	53.25	110.80	-57.55	peak	
8		5860.980	14.24	38.44	52.68	109.12	-56.44	peak	

Test Mode	UNII-3/ TX A Mode 5785MHz	Polarization	Vertical
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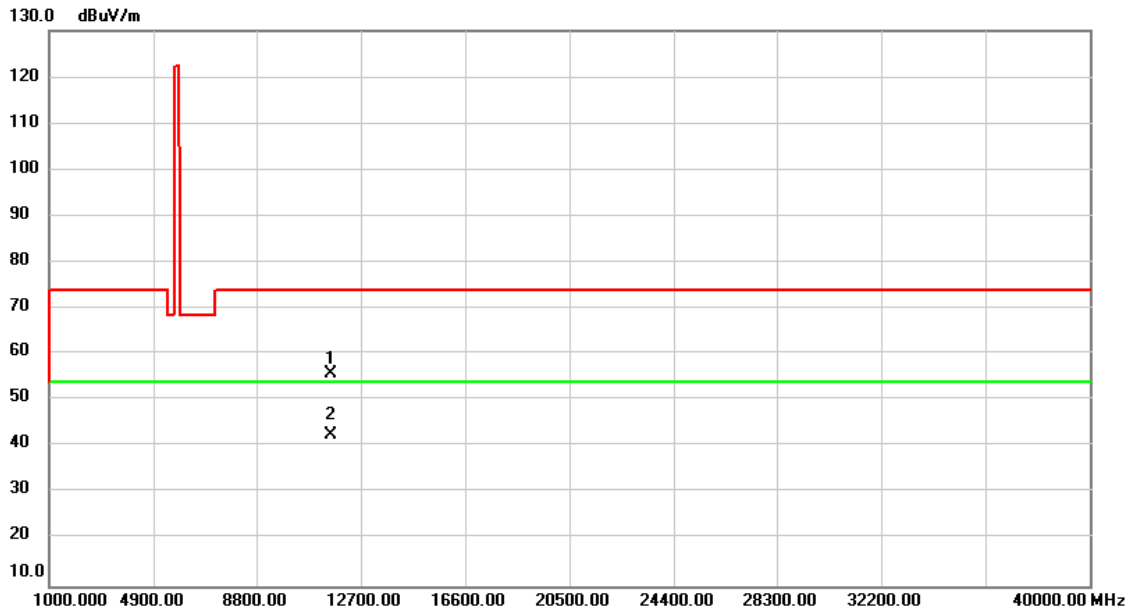
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	54.86	2.72	57.58	74.00	-16.42	peak	
2	*	11570.00	44.65	2.72	47.37	54.00	-6.63	AVG	

Test Mode	UNII-3/ TX A Mode 5785MHz	Polarization	Horizontal
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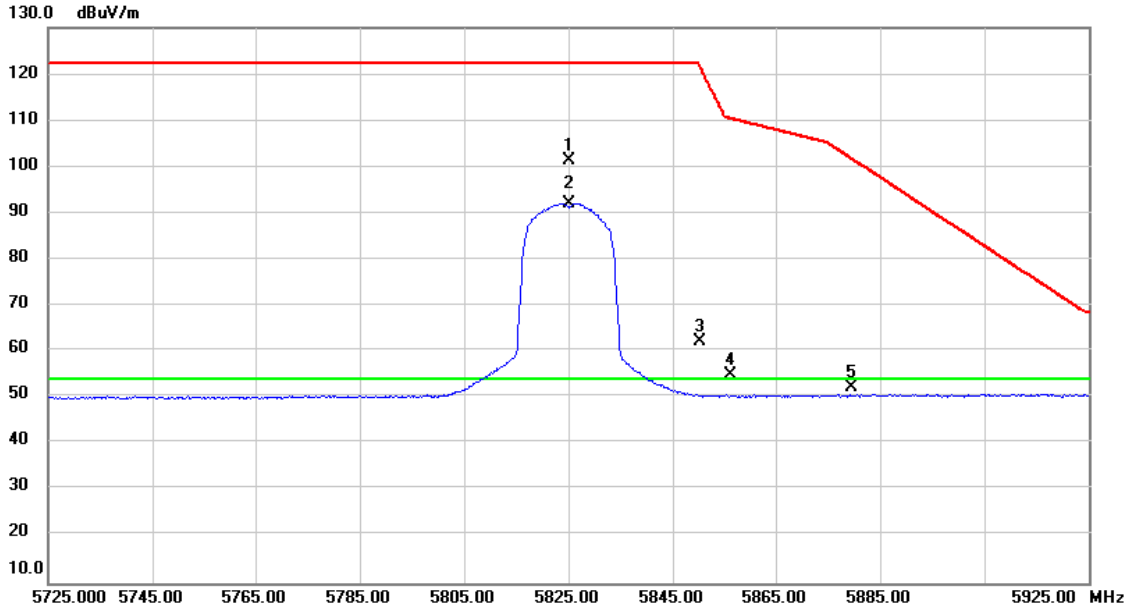
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5695.875	14.09	38.09	52.18	102.16	-49.98	peak	
2	5703.920	14.23	38.11	52.34	106.30	-53.96	peak	
3	5720.290	15.84	38.14	53.98	111.46	-57.48	peak	
4	5785.000	66.60	38.28	104.88	122.20	-17.32	peak	No Limit
5 *	5785.000	57.45	38.28	95.73	54.00	41.73	AVG	No Limit
6	5853.135	15.38	38.42	53.80	115.05	-61.25	peak	
7	5861.660	15.14	38.44	53.58	108.93	-55.35	peak	
8	5882.470	14.53	38.48	53.01	99.65	-46.64	peak	

Test Mode	UNII-3/ TX A Mode 5785MHz	Polarization	Horizontal
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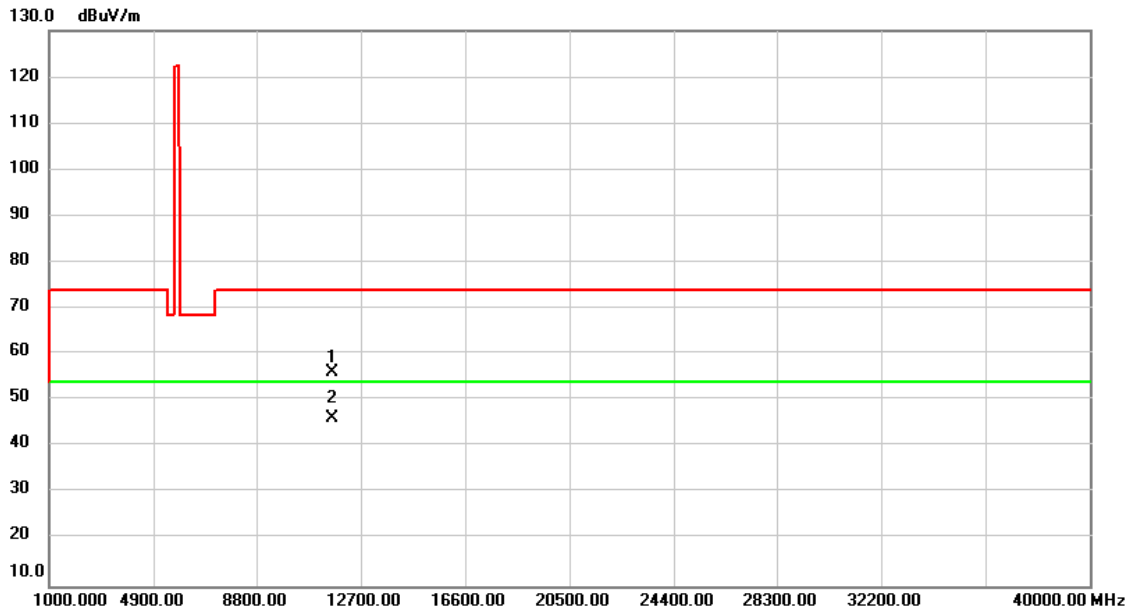
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	52.98	2.72	55.70	74.00	-18.30	peak	
2	*	11570.00	39.83	2.72	42.55	54.00	-11.45	AVG	

Test Mode	UNII-3/ TX A Mode 5825MHz	Polarization	Vertical
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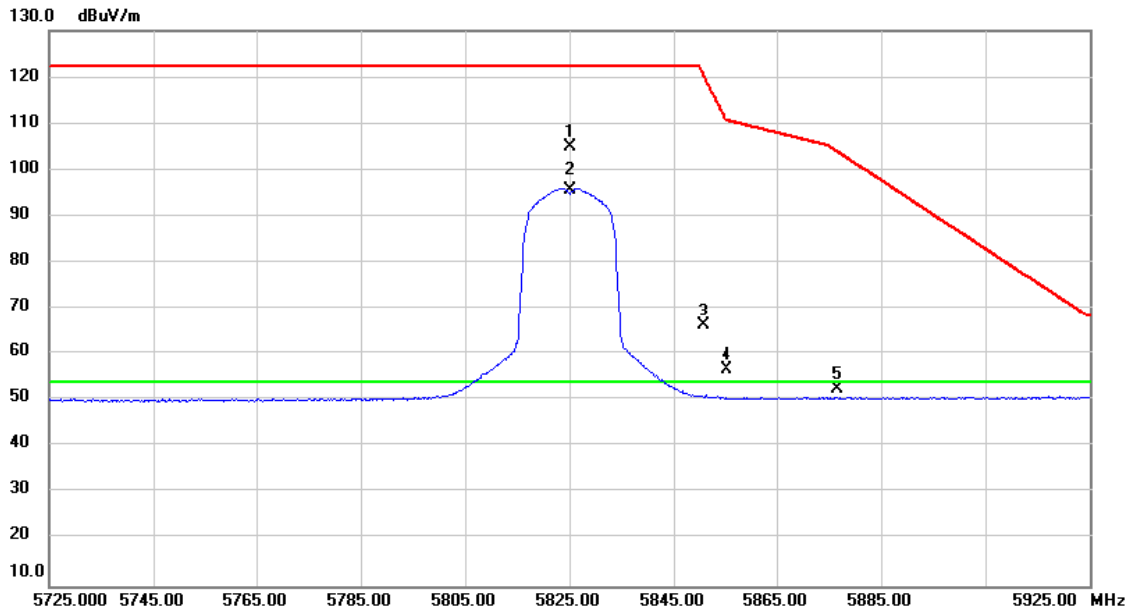
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5825.000	62.99	38.36	101.35	122.20	-20.85	peak	No Limit
2 *	5825.000	53.62	38.36	91.98	54.00	37.98	AVG	No Limit
3	5850.185	23.55	38.41	61.96	121.78	-59.82	peak	
4	5856.360	16.31	38.42	54.73	110.42	-55.69	peak	
5	5879.500	13.63	38.47	52.10	101.86	-49.76	peak	

Test Mode	UNII-3/ TX A Mode 5825MHz	Polarization	Vertical
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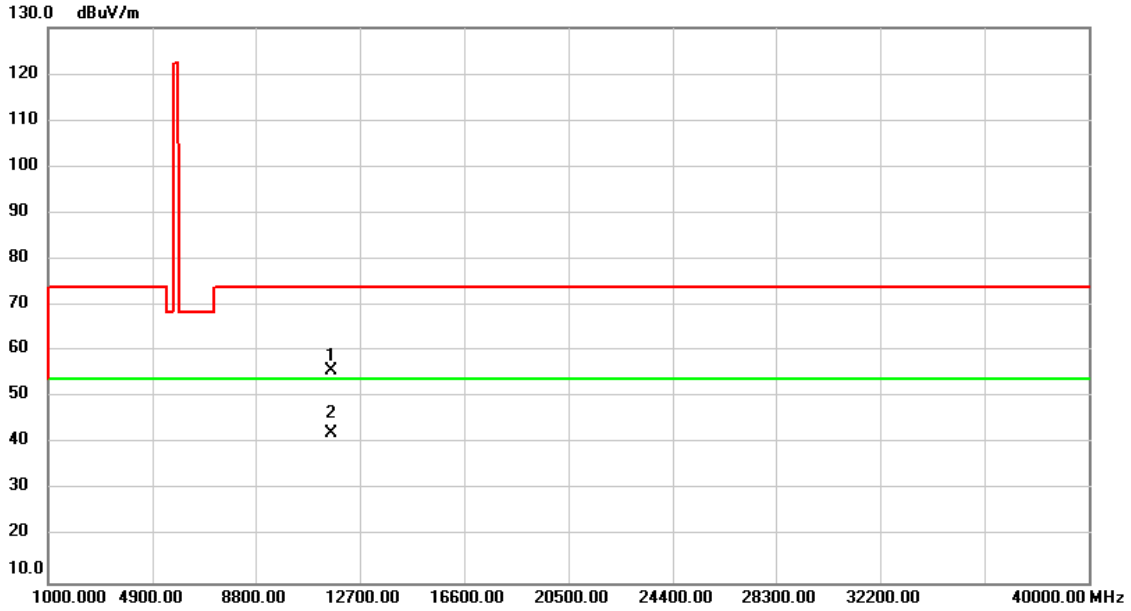
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	53.57	2.50	56.07	74.00	-17.93	peak	
2	*	11650.00	43.70	2.50	46.20	54.00	-7.80	AVG	

Test Mode	UNII-3/ TX A Mode 5825MHz	Polarization	Horizontal
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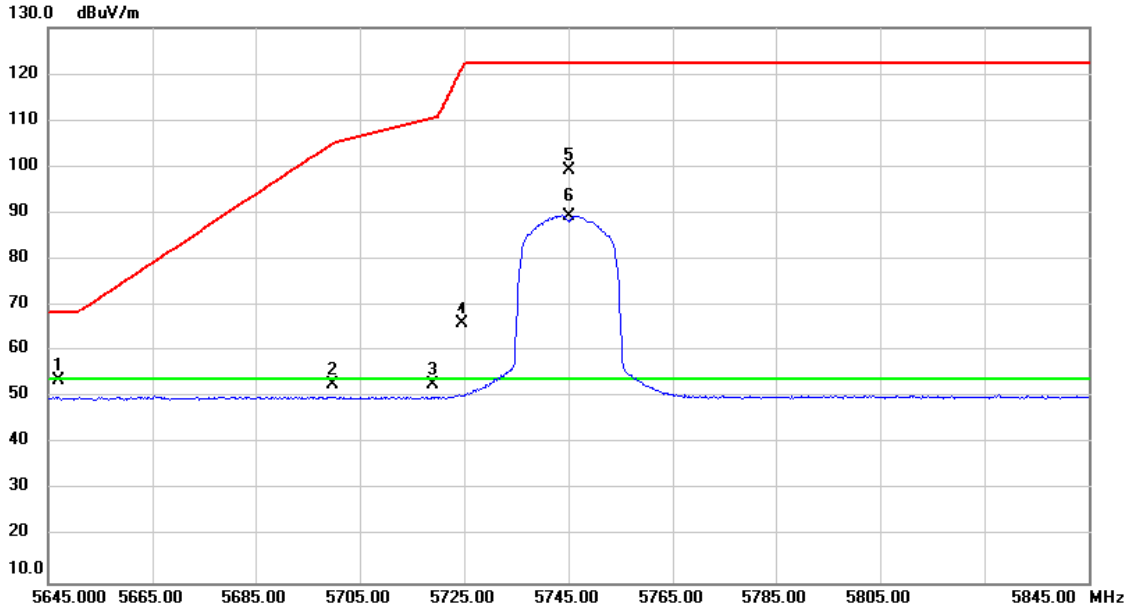
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5825.000	66.64	38.36	105.00	122.20	-17.20	peak	No Limit
2 *	5825.000	57.42	38.36	95.78	54.00	41.78	AVG	No Limit
3	5850.660	27.84	38.41	66.25	120.69	-54.44	peak	
4	5855.340	18.25	38.42	56.67	110.70	-54.03	peak	
5	5876.600	13.99	38.46	52.45	104.01	-51.56	peak	

Test Mode	UNII-3/ TX A Mode 5825MHz	Polarization	Horizontal
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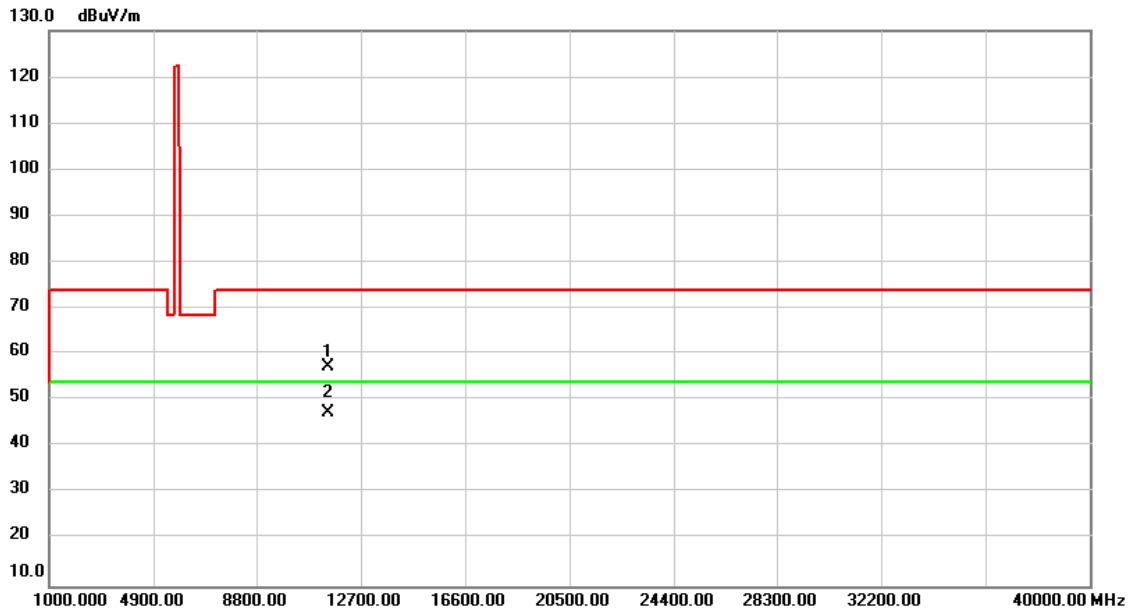
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	53.37	2.50	55.87	74.00	-18.13	peak	
2	*	11650.00	39.86	2.50	42.36	54.00	-11.64	AVG	

Test Mode	UNII-3/ TX AC20 Mode 5745MHz	Polarization	Vertical
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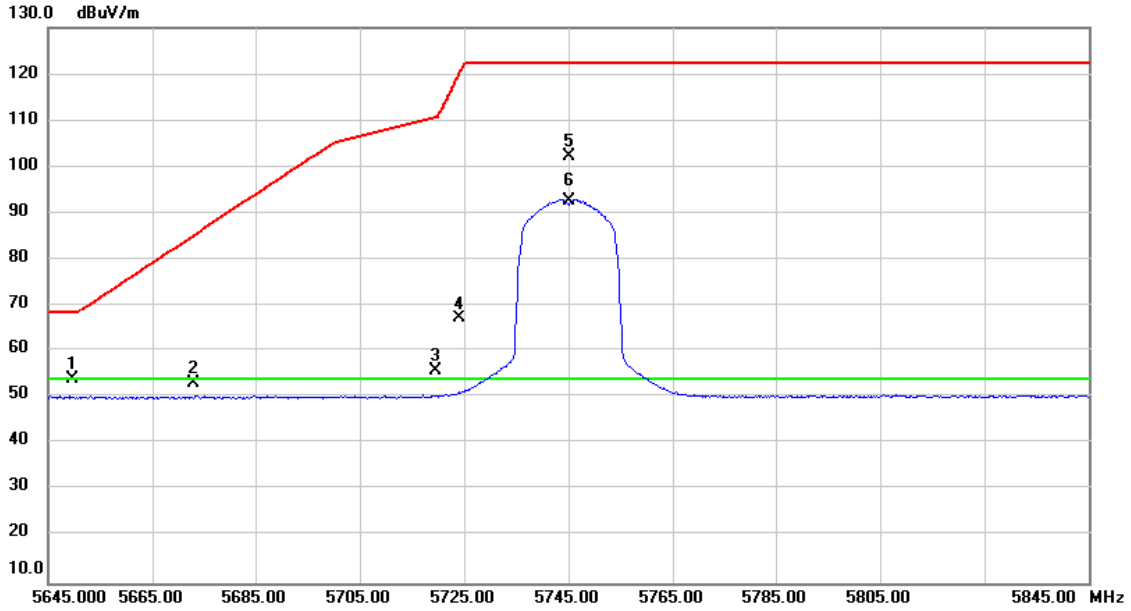
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5647.110	15.75	38.00	53.75	68.20	-14.45	peak	
2		5699.800	14.71	38.10	52.81	105.05	-52.24	peak	
3		5718.980	14.54	38.14	52.68	110.51	-57.83	peak	
4		5724.630	27.73	38.15	65.88	121.36	-55.48	peak	
5		5745.000	61.07	38.19	99.26	122.20	-22.94	peak	No Limit
6	*	5745.000	51.26	38.19	89.45	54.00	35.45	AVG	No Limit

Test Mode	UNII-3/ TX AC20 Mode 5745MHz	Polarization	Vertical
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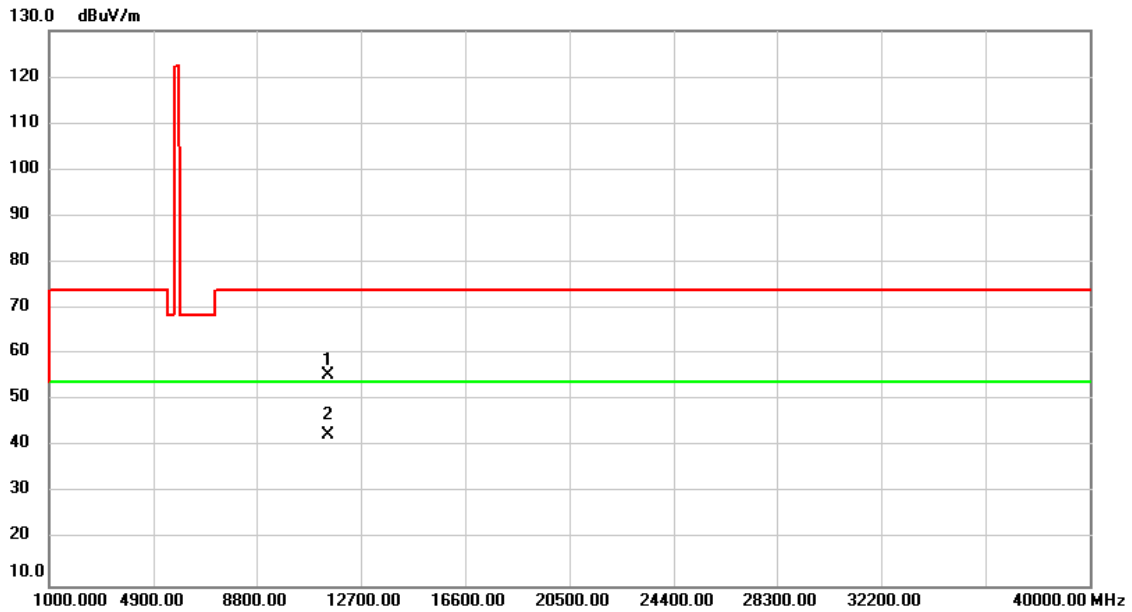
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	54.31	2.89	57.20	74.00	-16.80	peak	
2	*	11490.00	44.44	2.89	47.33	54.00	-6.67	AVG	

Test Mode	UNII-3/ TX AC20 Mode 5745MHz	Polarization	Horizontal
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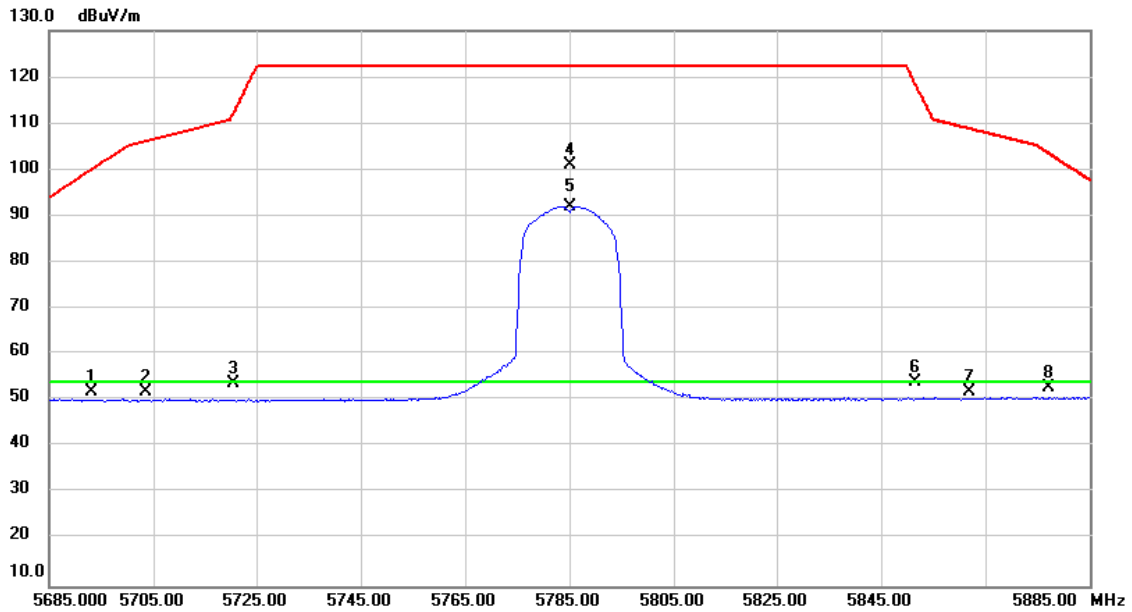
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5649.540	15.92	38.00	53.92	68.20	-14.28	peak	
2	5672.850	14.98	38.05	53.03	85.15	-32.12	peak	
3	5719.500	17.48	38.14	55.62	110.66	-55.04	peak	
4	5724.185	29.08	38.15	67.23	120.34	-53.11	peak	
5	5745.000	63.99	38.19	102.18	122.20	-20.02	peak	No Limit
6 *	5745.000	54.59	38.19	92.78	54.00	38.78	AVG	No Limit

Test Mode	UNII-3/ TX AC20 Mode 5745MHz	Polarization	Horizontal
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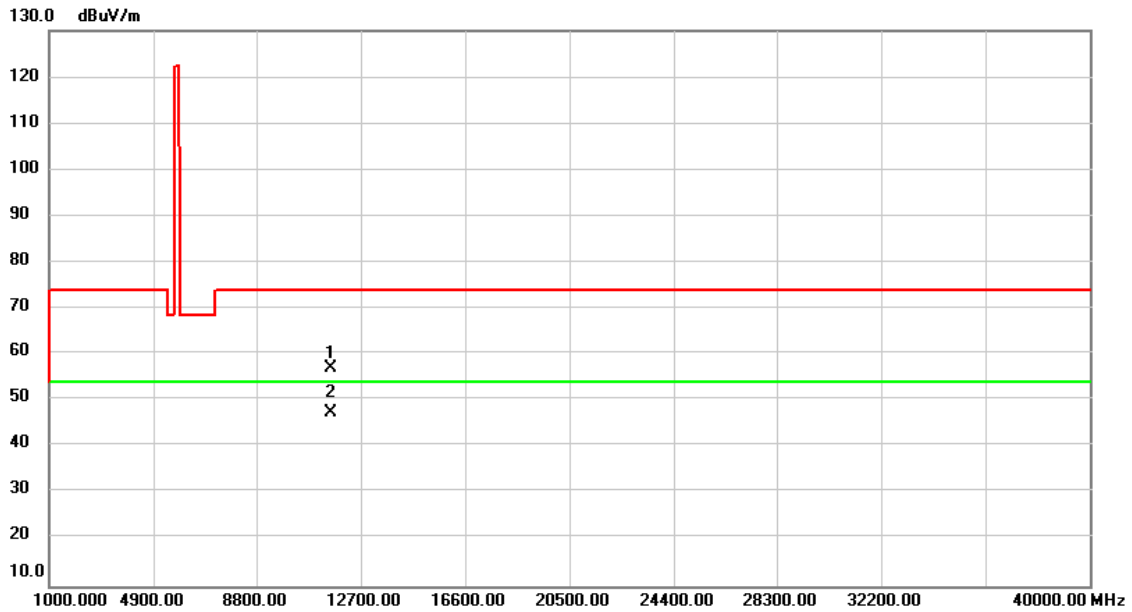
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	52.64	2.89	55.53	74.00	-18.47	peak	
2	*	11490.00	39.64	2.89	42.53	54.00	-11.47	AVG	

Test Mode	UNII-3/ TX AC20 Mode 5785MHz	Polarization	Vertical
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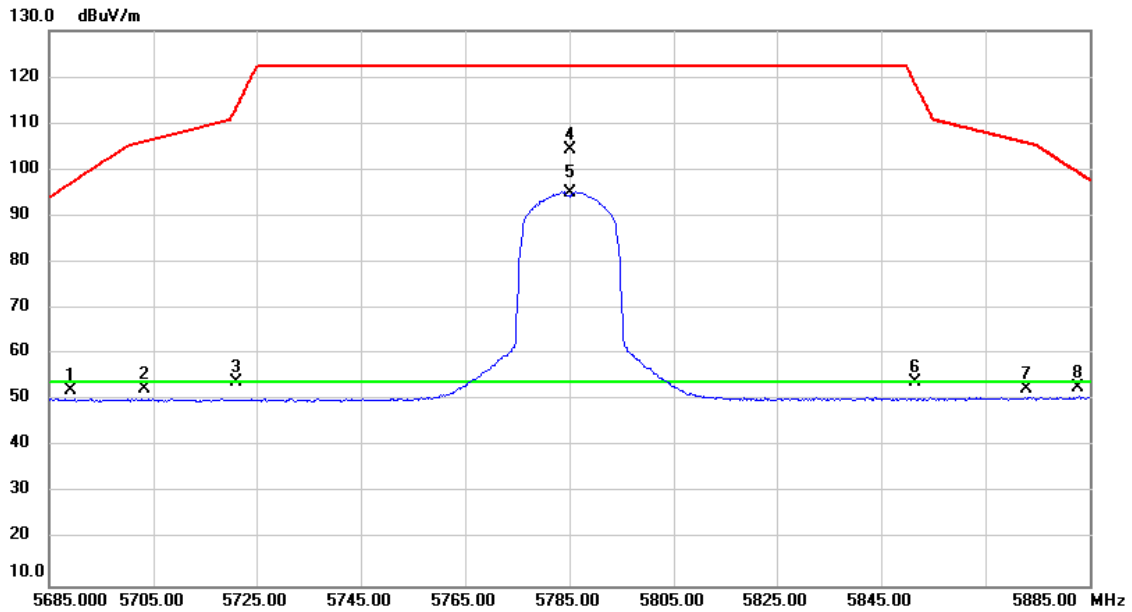
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5693.055	13.63	38.09	51.72	100.08	-48.36	peak	
2	5703.420	13.69	38.11	51.80	106.16	-54.36	peak	
3	5720.475	15.37	38.14	53.51	111.88	-58.37	peak	
4	5785.000	62.79	38.28	101.07	122.20	-21.13	peak	No Limit
5 *	5785.000	53.70	38.28	91.98	54.00	37.98	AVG	No Limit
6	5851.455	15.55	38.41	53.96	118.88	-64.92	peak	
7	5861.900	13.54	38.44	51.98	108.87	-56.89	peak	
8	5877.240	14.26	38.46	52.72	103.54	-50.82	peak	

Test Mode	UNII-3/ TX AC20 Mode 5785MHz	Polarization	Vertical
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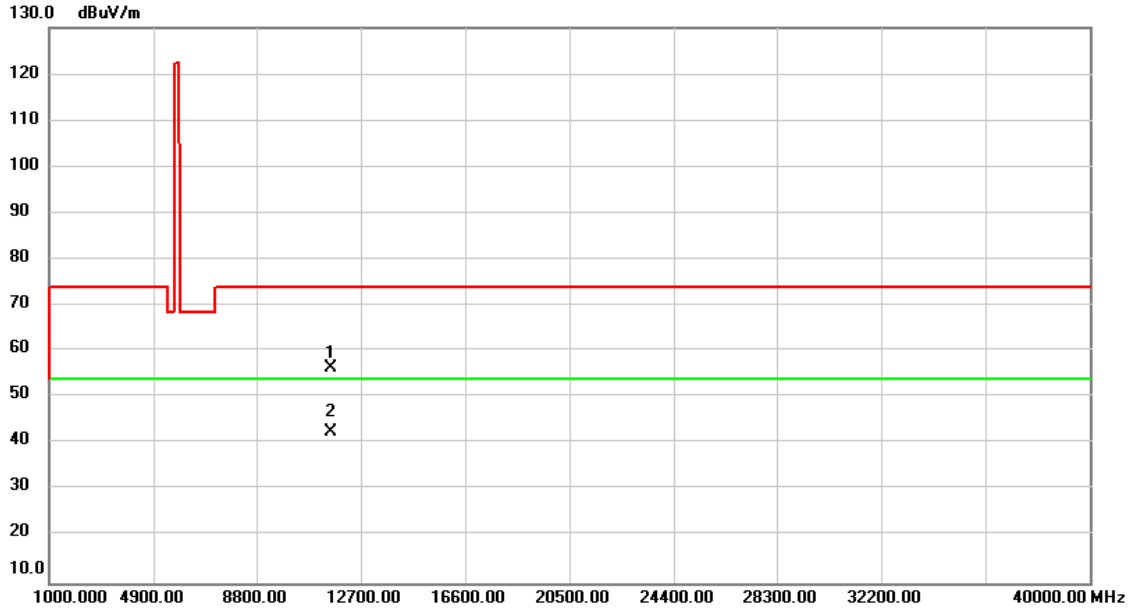
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	54.32	2.72	57.04	74.00	-16.96	peak	
2	*	11570.00	44.54	2.72	47.26	54.00	-6.74	AVG	

Test Mode	UNII-3/ TX AC20 Mode 5785MHz	Polarization	Horizontal
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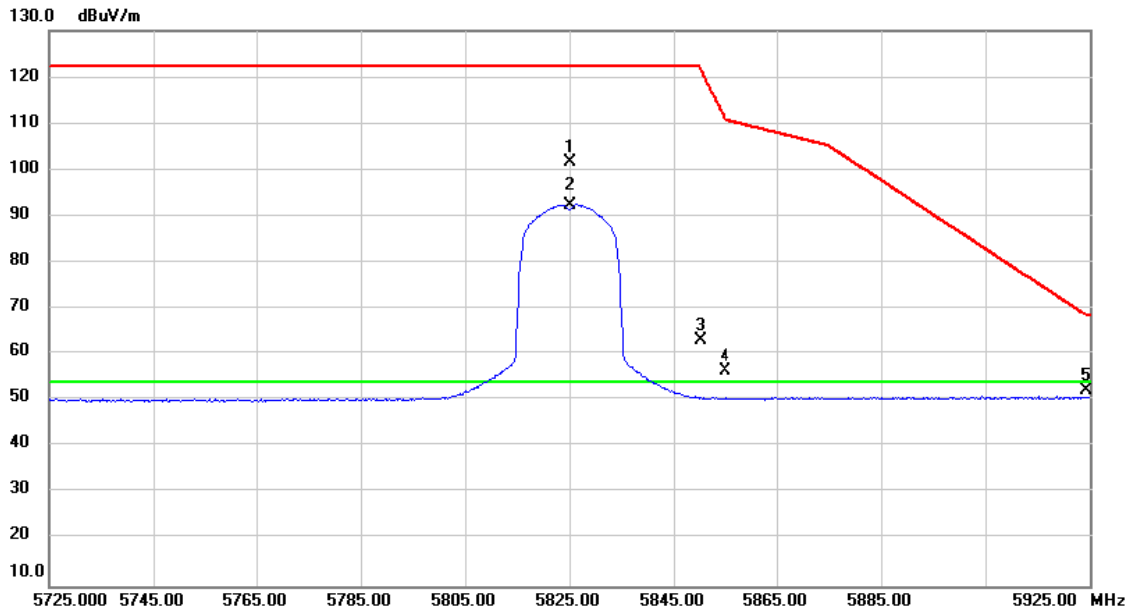
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5689.065	14.12	38.08	52.20	97.14	-44.94	peak	
2	5703.320	14.42	38.11	52.53	106.13	-53.60	peak	
3	5721.020	15.75	38.14	53.89	113.13	-59.24	peak	
4	5785.000	66.13	38.28	104.41	122.20	-17.79	peak	No Limit
5 *	5785.000	56.65	38.28	94.93	54.00	40.93	AVG	No Limit
6	5851.545	15.54	38.41	53.95	118.68	-64.73	peak	
7	5872.840	13.94	38.46	52.40	105.80	-53.40	peak	
8	5882.630	14.17	38.48	52.65	99.53	-46.88	peak	

Test Mode	UNII-3/ TX AC20 Mode 5785MHz	Polarization	Horizontal
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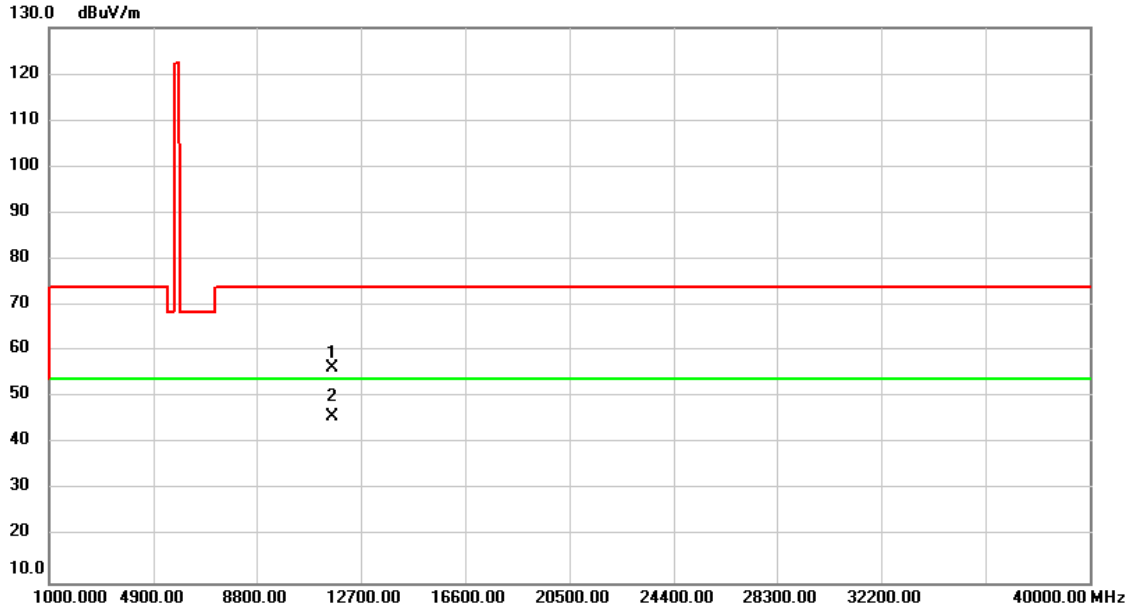
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	53.51	2.72	56.23	74.00	-17.77	peak	
2	*	11570.00	39.93	2.72	42.65	54.00	-11.35	AVG	

Test Mode	UNII-3/ TX AC20 Mode 5825MHz	Polarization	Vertical
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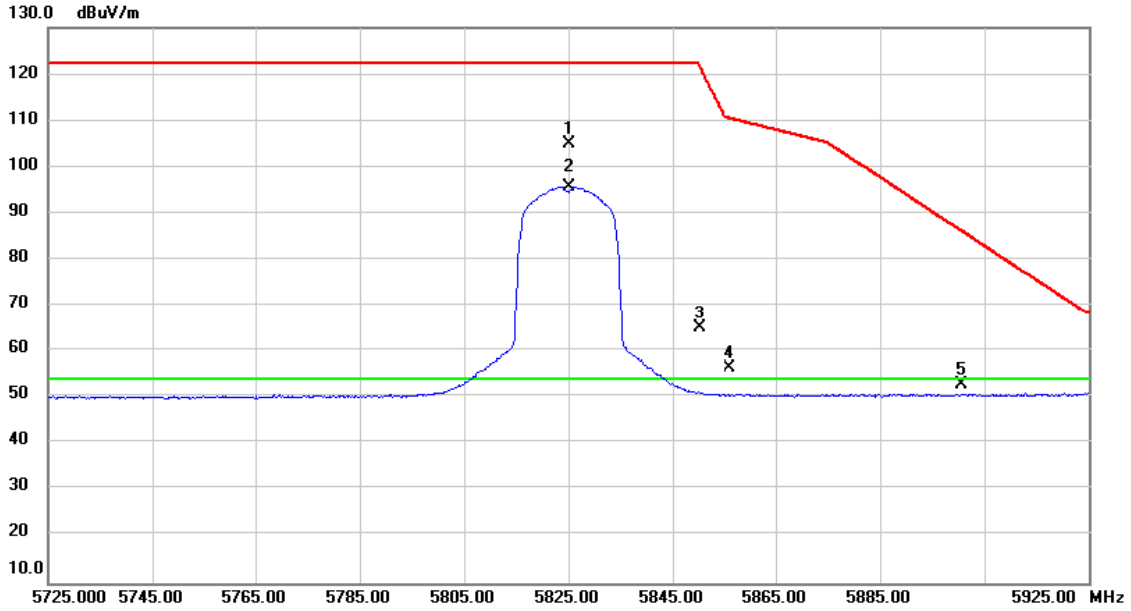
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5825.000	63.26	38.36	101.62	122.20	-20.58	peak	No Limit
2 *	5825.000	54.02	38.36	92.38	54.00	38.38	AVG	No Limit
3	5850.285	24.43	38.41	62.84	121.55	-58.71	peak	
4	5855.120	17.80	38.42	56.22	110.77	-54.55	peak	
5	5924.450	13.48	38.57	52.05	68.61	-16.56	peak	

Test Mode	UNII-3/ TX AC20 Mode 5825MHz	Polarization	Vertical
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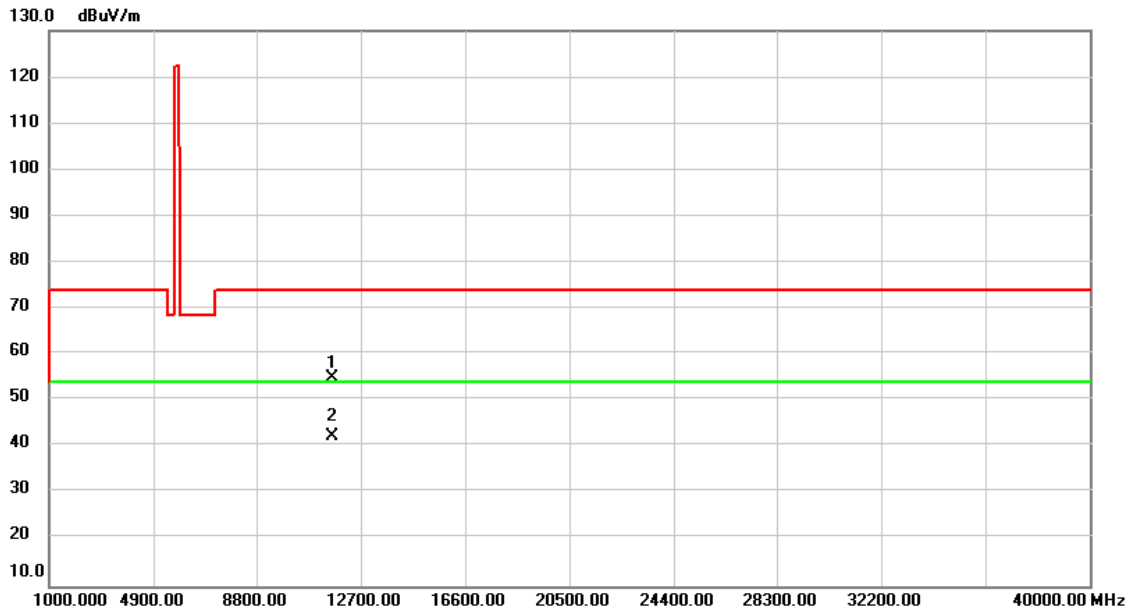
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	53.81	2.50	56.31	74.00	-17.69	peak	
2	*	11650.00	43.40	2.50	45.90	54.00	-8.10	AVG	

Test Mode	UNII-3/ TX AC20 Mode 5825MHz	Polarization	Horizontal
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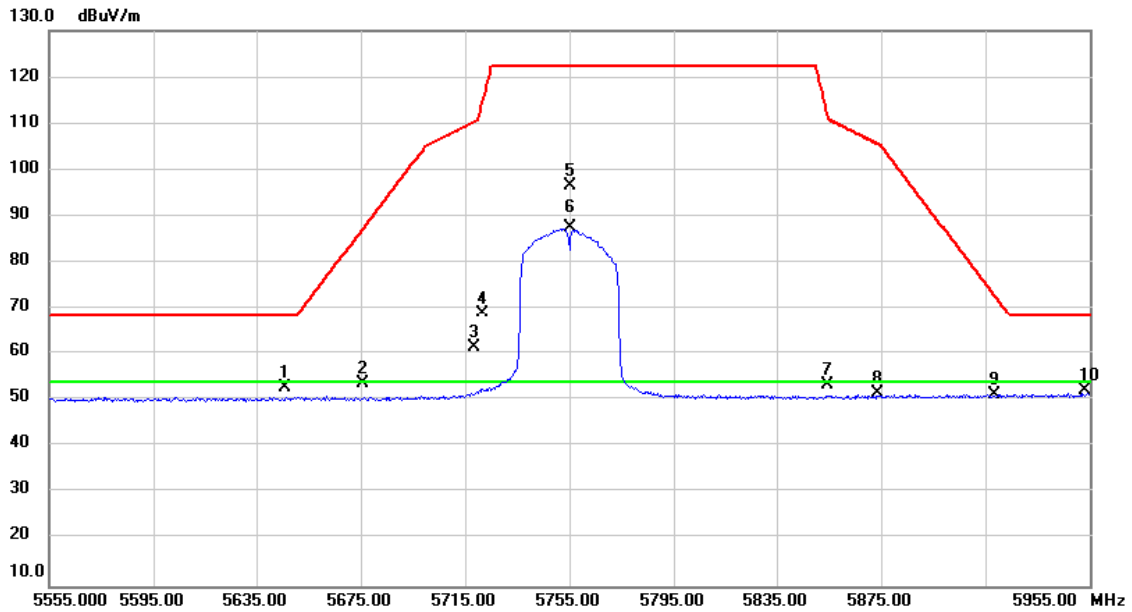
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5825.000	66.52	38.36	104.88	122.20	-17.32	peak	No Limit
2	*	5825.000	57.20	38.36	95.56	54.00	41.56	AVG	No Limit
3		5850.170	26.71	38.41	65.12	121.81	-56.69	peak	
4		5856.040	17.79	38.42	56.21	110.51	-54.30	peak	
5		5900.600	14.16	38.51	52.67	86.22	-33.55	peak	

Test Mode	UNII-3/ TX AC20 Mode 5825MHz	Polarization	Horizontal
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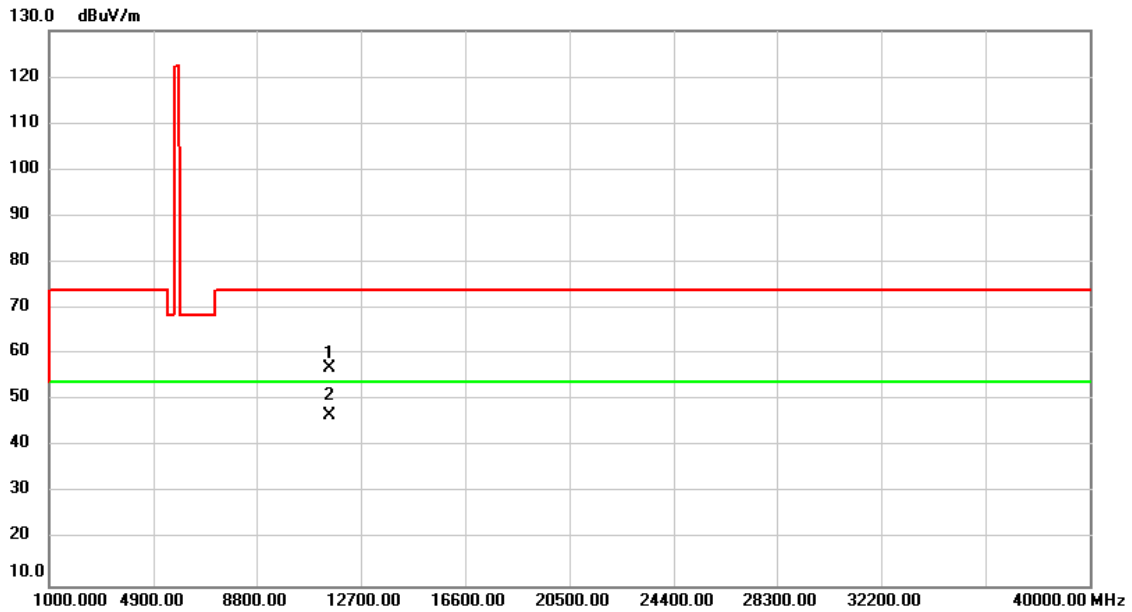
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	52.49	2.50	54.99	74.00	-19.01	peak	
2	*	11650.00	39.88	2.50	42.38	54.00	-11.62	AVG	

Test Mode	UNII-3/ TX AC40 Mode 5755MHz	Polarization	Vertical
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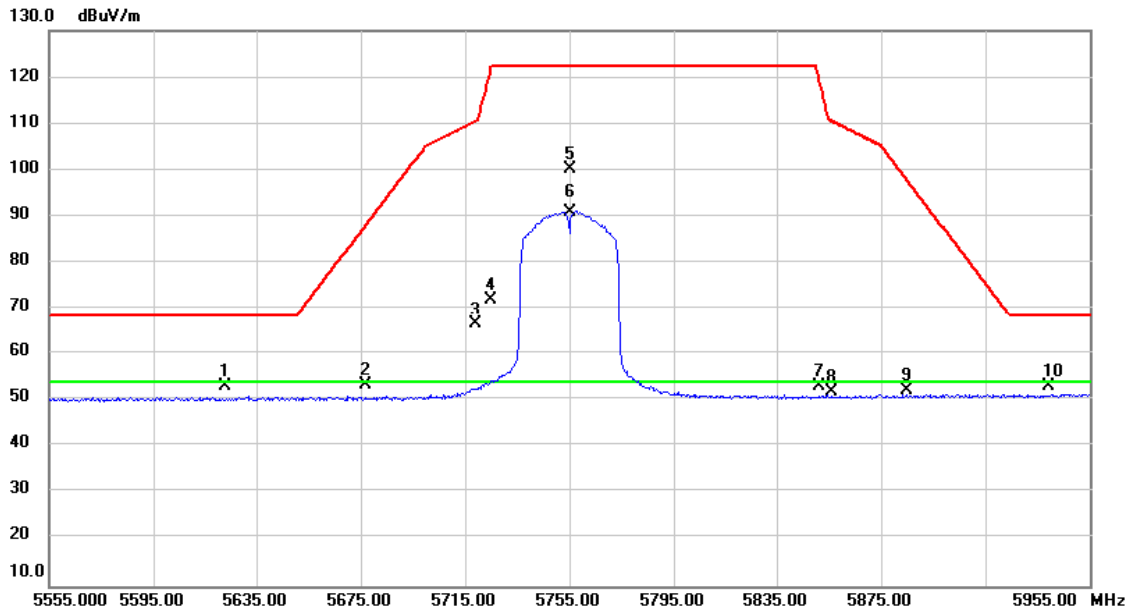
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5646.010	14.83	37.99	52.82	68.20	-15.38	peak	
2		5675.550	15.53	38.05	53.58	87.15	-33.57	peak	
3		5718.520	23.46	38.14	61.60	110.39	-48.79	peak	
4		5721.710	30.79	38.14	68.93	114.70	-45.77	peak	
5		5755.000	58.29	38.22	96.51	122.20	-25.69	peak	No Limit
6	*	5755.000	49.22	38.22	87.44	54.00	33.44	AVG	No Limit
7		5854.240	15.02	38.42	53.44	112.53	-59.09	peak	
8		5873.720	13.23	38.46	51.69	105.56	-53.87	peak	
9		5918.650	12.82	38.55	51.37	72.88	-21.51	peak	
10		5953.380	13.60	38.63	52.23	68.20	-15.97	peak	

Test Mode	UNII-3/ TX AC40 Mode 5755MHz	Polarization	Vertical
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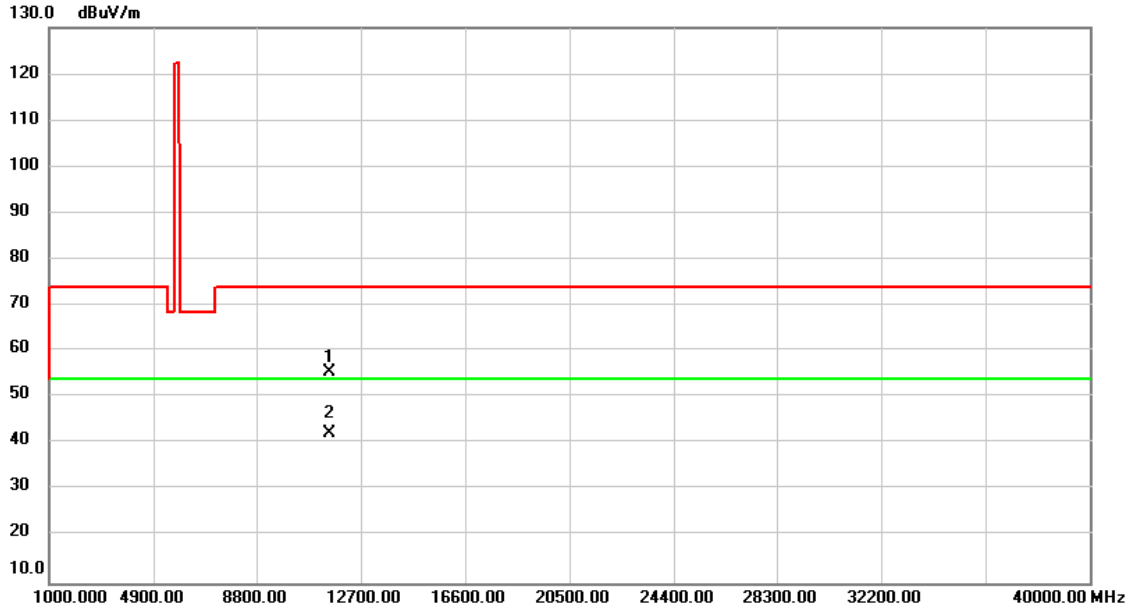
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11510.00	54.22	2.88	57.10	74.00	-16.90	peak	
2	*	11510.00	43.96	2.88	46.84	54.00	-7.16	AVG	

Test Mode	UNII-3/ TX AC40 Mode 5755MHz	Polarization	Horizontal
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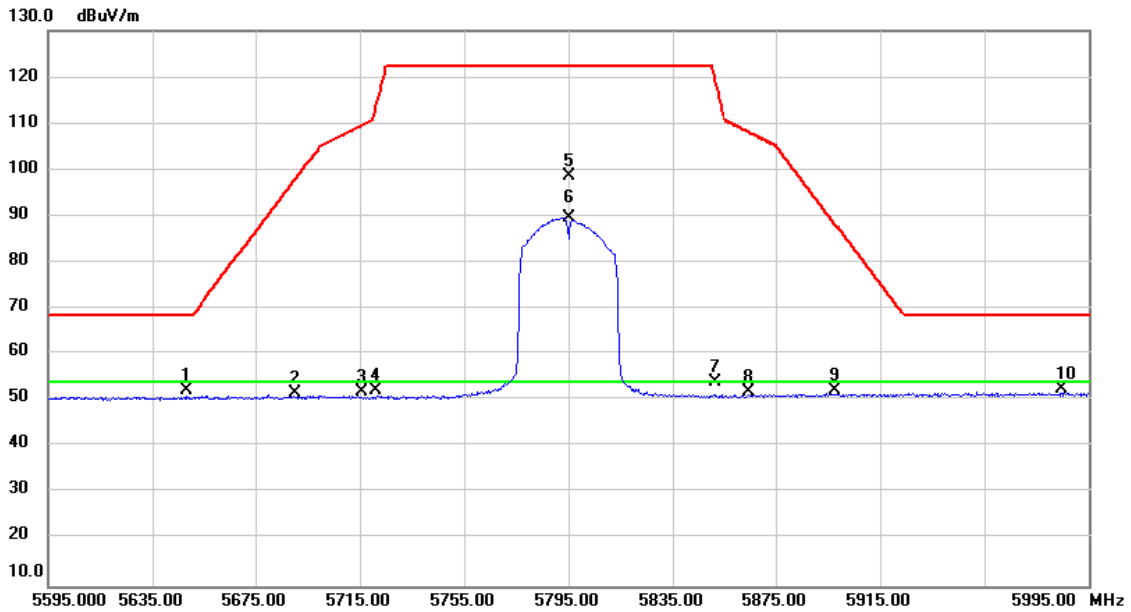
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5623.210	15.22	37.95	53.17	68.20	-15.03	peak	
2		5676.950	15.37	38.05	53.42	88.18	-34.76	peak	
3		5719.040	28.42	38.14	66.56	110.53	-43.97	peak	
4		5724.805	33.86	38.15	72.01	121.76	-49.75	peak	
5		5755.000	61.85	38.22	100.07	122.20	-22.13	peak	No Limit
6	*	5755.000	52.50	38.22	90.72	54.00	36.72	AVG	No Limit
7		5851.288	14.70	38.41	53.11	119.26	-66.15	peak	
8		5856.060	13.34	38.42	51.76	110.50	-58.74	peak	
9		5884.950	13.81	38.49	52.30	97.81	-45.51	peak	
10		5939.220	14.47	38.59	53.06	68.20	-15.14	peak	

Test Mode	UNII-3/ TX AC40 Mode 5755MHz	Polarization	Horizontal
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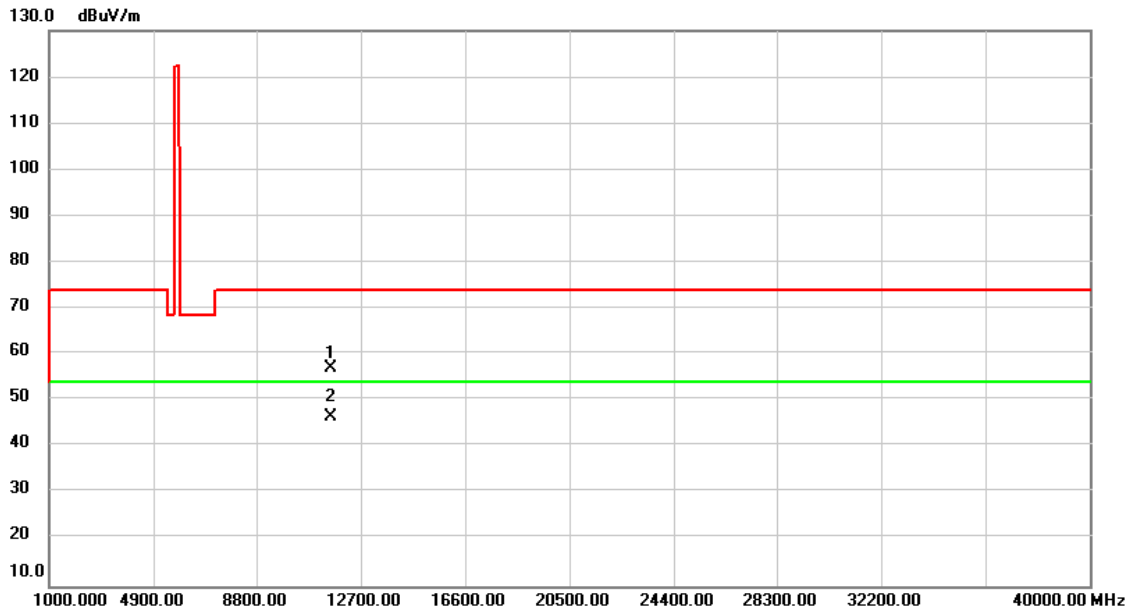
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11510.00	52.65	2.88	55.53	74.00	-18.47	peak	
2	*	11510.00	39.45	2.88	42.33	54.00	-11.67	AVG	

Test Mode	UNII-3/ TX AC40 Mode 5795MHz	Polarization	Vertical
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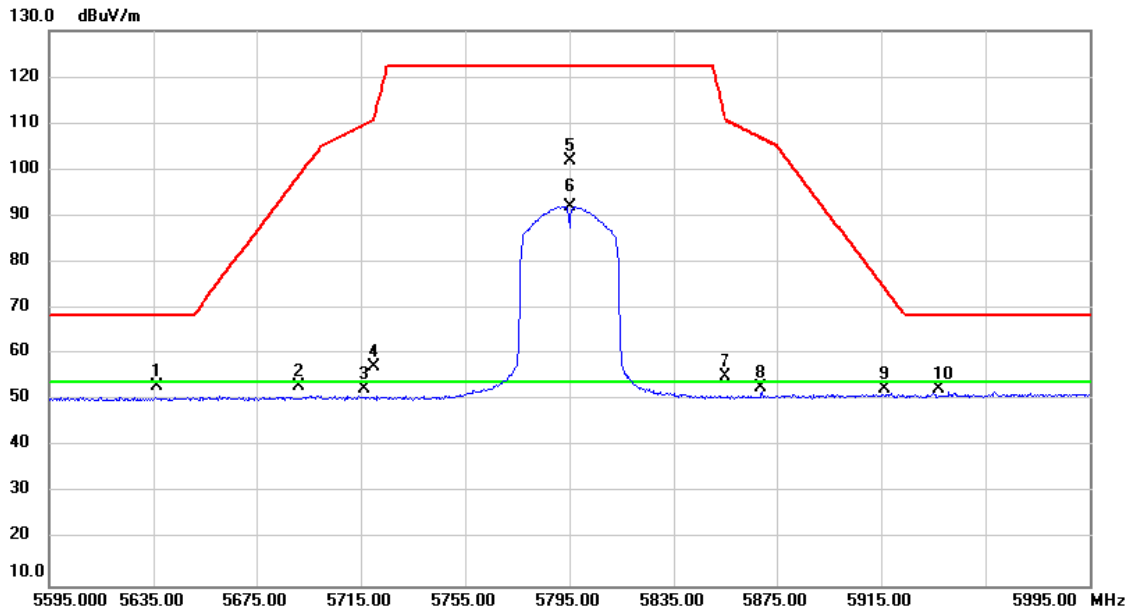
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5647.910	14.08	38.00	52.08	68.20	-16.12	peak	
2		5690.350	13.55	38.08	51.63	98.08	-46.45	peak	
3		5715.880	13.85	38.14	51.99	109.65	-57.66	peak	
4		5721.340	14.05	38.14	52.19	113.86	-61.67	peak	
5		5795.000	60.21	38.30	98.51	122.20	-23.69	peak	No Limit
6	*	5795.000	51.40	38.30	89.70	54.00	35.70	AVG	No Limit
7		5851.290	15.52	38.41	53.93	119.26	-65.33	peak	
8		5864.800	13.36	38.44	51.80	108.05	-56.25	peak	
9		5897.850	13.52	38.51	52.03	88.25	-36.22	peak	
10		5984.500	13.65	38.69	52.34	68.20	-15.86	peak	

Test Mode	UNII-3/ TX AC40 Mode 5795MHz	Polarization	Vertical
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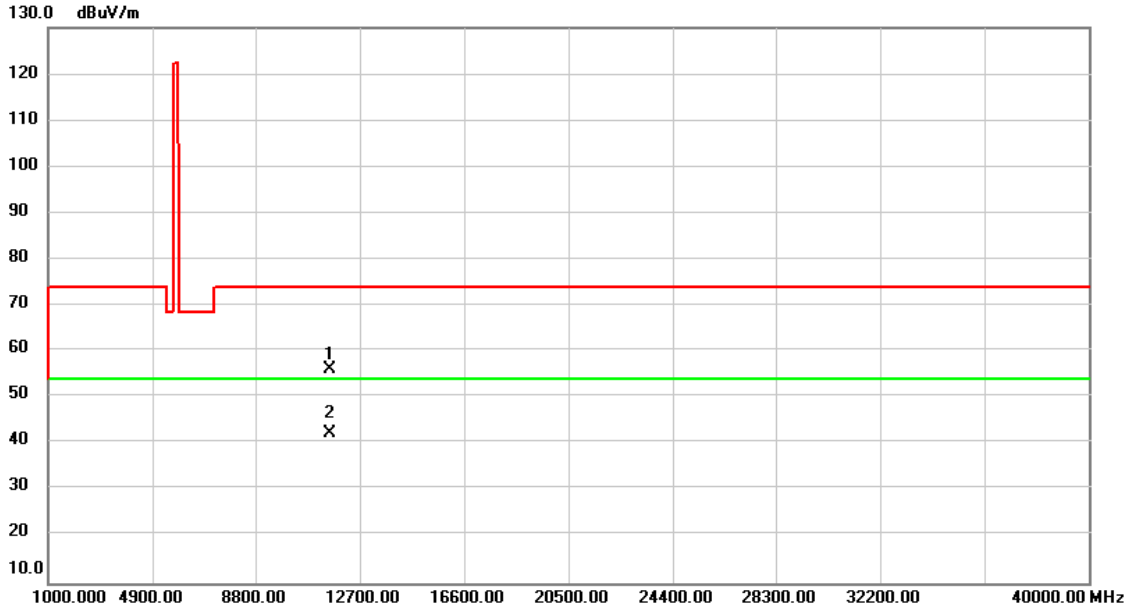
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11590.00	54.25	2.67	56.92	74.00	-17.08	peak	
2	*	11590.00	43.88	2.67	46.55	54.00	-7.45	AVG	

Test Mode	UNII-3/ TX AC40 Mode 5795MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5636.305	14.96	37.97	52.93	68.20	-15.27	peak	
2		5691.150	14.92	38.09	53.01	98.67	-45.66	peak	
3		5716.360	14.46	38.14	52.60	109.78	-57.18	peak	
4		5720.260	19.00	38.14	57.14	111.39	-54.25	peak	
5		5795.000	63.52	38.30	101.82	122.20	-20.38	peak	No Limit
6	*	5795.000	53.75	38.30	92.05	54.00	38.05	AVG	No Limit
7		5854.900	16.76	38.42	55.18	111.03	-55.85	peak	
8		5869.060	14.18	38.45	52.63	106.86	-54.23	peak	
9		5916.150	13.85	38.55	52.40	74.73	-22.33	peak	
10		5937.270	13.84	38.59	52.43	68.20	-15.77	peak	

Test Mode	UNII-3/ TX AC40 Mode 5795MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11590.00	53.46	2.67	56.13	74.00	-17.87	peak	
2	*	11590.00	39.61	2.67	42.28	54.00	-11.72	AVG	

APPENDIX – REFERENCE INFORMATION

Normal Condition Power Table

Test Mode	RLAN
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Mode		Frequency (MHz)	ANT-0		Total Power		Limit	
			Peak	Average	Peak	Average	Average	PASS/ FAIL
			dBm	dBm	dBm	dBm	dBm	
802.11a	Band 1	5180	22.05	15.74	22.05	15.74	30.00	PASS
		5200	22.26	16.18	22.26	16.18	30.00	PASS
		5240	22.26	15.88	22.26	15.88	30.00	PASS
	Band 4	5745	19.74	11.33	19.74	11.33	30.00	PASS
		5785	20.63	14.69	20.63	14.69	30.00	PASS
		5825	20.54	14.46	20.54	14.46	30.00	PASS
802.11n_20MHz	Band 1	5180	22.16	15.81	22.16	15.81	30.00	PASS
		5200	22.21	15.82	22.21	15.82	30.00	PASS
		5240	22.28	15.90	22.28	15.90	30.00	PASS
	Band 4	5745	19.70	10.51	19.70	10.51	30.00	PASS
		5785	20.59	14.26	20.59	14.26	30.00	PASS
		5825	20.37	14.08	20.37	14.08	30.00	PASS
802.11n_40MHz	Band 1	5190	21.71	13.89	21.71	13.89	30.00	PASS
		5230	21.89	13.96	21.89	13.96	30.00	PASS
	Band 4	5755	19.82	11.39	19.82	11.39	30.00	PASS
		5795	20.05	12.66	20.05	12.66	30.00	PASS