

FCC PART 15.407
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TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave,
Nanshan, Shenzhen, Guangdong, China

FCC ID: SS3-S01A1710
IC: 11805A-S01A1710

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Report Number: RDG171013008-00C	
Report Date: 2017-11-23	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SZ DJI TECHNOLOGY CO., LTD*'s product, model number: **S01A (FCC ID: SS3-S01A1710, IC: 11805A-S01A1710)** (the "EUT") in this report was a C2, which was measured approximately: 14.4 cm (L) x 7.8 cm (W) x 6.2 cm (H), rated input voltage: DC3.7V from rechargeable Li-ion Battery.

Adapter Information #1:

Model: P1C50

Input: 100-240V~1.4A, 50-60Hz

Output: DC13.20V, 3.79A(Main), DC5.0V, 2.0A Total(USB)

Manufacturer: AcTel Electronic (Dong Guan) Co., Ltd./China

Adapter Information #2:

Model: P1C50

Input: 100-240V~1.4A, 50-60Hz

Output: DC13.20V, 3.79A(Main), DC5.0V, 2.0A Total(USB)

Manufacturer: Shenzhen Huntkey Electronics Co., Ltd.

Adapter Information #3:

Model: P1C50

Input: 100-240V~1.8A, 50-60Hz

Output: DC13.20V, 3.79A(Main), DC5.0V, 2.0A Total(USB)

Manufacturer: CHICONY POWER TECHNOLOGY (SUZHOU) CO., LTD.

The measurement and test data of the Spurious Emissions in this report was gathered from production sample serial number: 171013008 (Assigned by BACL, Dongguan). The EUT was received on 2017-10-13.

Objective

This type approval report is prepared on behalf of **SZ DJI TECHNOLOGY CO., LTD** in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communications Commission's rules. And RSS-247, Issue 2, February 2017, RSS-Gen Issue 4, November 2014 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules, and RSS-247, Issue 2, February 2017, RSS-Gen Issue 4, November 2014 of the Innovation, Science and Economic Development Canada.

Related Submittal(s)/Grant(s)

FCC submissions with Part 15C DTS, FCC ID: SS3-S01A1710.

ISED submissions with RSS-247 DTSs, IC: 11805A-S01A1710.

Part of system submissions with FCC ID:SS3-U11X1710, IC: 11805A-U11X1710.

Test Methodology

All measurements detailed in this Test Report were performed in accordance with ANSI C63.10-2013 “American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices”. RSS-247, Issue 2, February 2017, RSS-Gen Issue 4, November 2014 of the Innovation, Science and Economic Development Canada. And KDB 789033 D02 General U-NII Test Procedures New Rules v01r04

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~40GHz: 5.23 dB
Unwanted Emissions, Conducted	±1.5 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L5662). And accredited to ISO/IEC 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

For 5725~5850MHz band, the device employs 802.11a/ n ht20/n ht40, and 5M and 10M modes. All modes support 2T2R mode.

The device employs total 8 channels:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a and 802.11n ht20 and 5MHz, 10Mhz modes were tested with Channel 149, 157 and 165, 802.11n ht40 mode was tested with Channel 151 and 159.

Per pre-test, the worst mode was 2T2R mode. The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

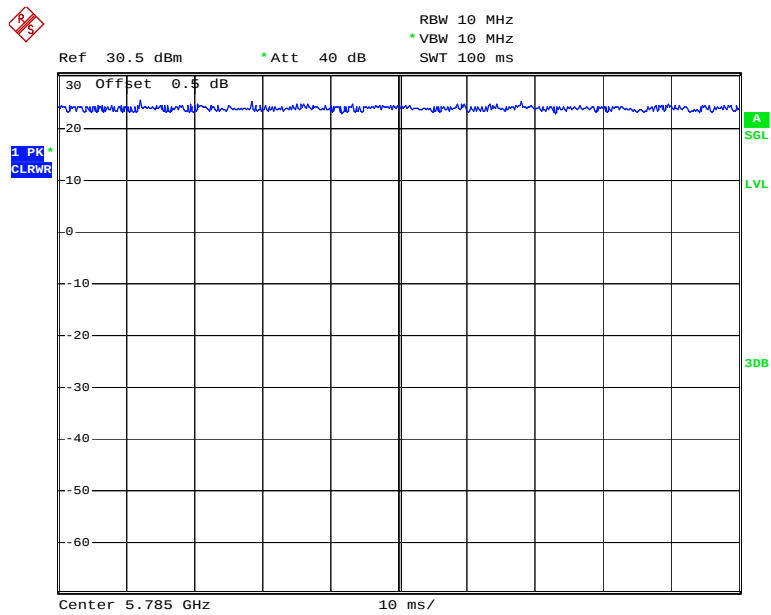
The software “Certification_WM230_RC_0930_1.exe” was used for testing, which was provided by manufacturer. The maximum power with maximum duty cycle was configured as below setting.

Test Mode	Test Software Version	Certification_WM230_RC_0930_1.exe		
802.11a	Test Frequency	5745MHz	5785MHz	5825MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level Setting Chain0	40	40	40
	Power Level Setting Chain1	40	40	40
802.11n ht20	Test Frequency	5745MHz	5785MHz	5825MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting Chain0	40	40	40
	Power Level Setting Chain1	40	40	40
802.11n ht40	Test Frequency	5755MHz	/	5795MHz
	Data Rate	MCS0	/	MCS0
	Power Level Setting Chain0	40	/	40
	Power Level Setting Chain1	40	/	40
5M	Test Frequency	5745MHz	5785MHz	5825MHz
	Power Level Setting Chain0	40	40	40
	Power Level Setting Chain1	40	40	40
10M	Test Frequency	5745MHz	5785MHz	5825MHz
	Power Level Setting Chain0	40	40	40
	Power Level Setting Chain1	40	40	40

The duty cycle as below:

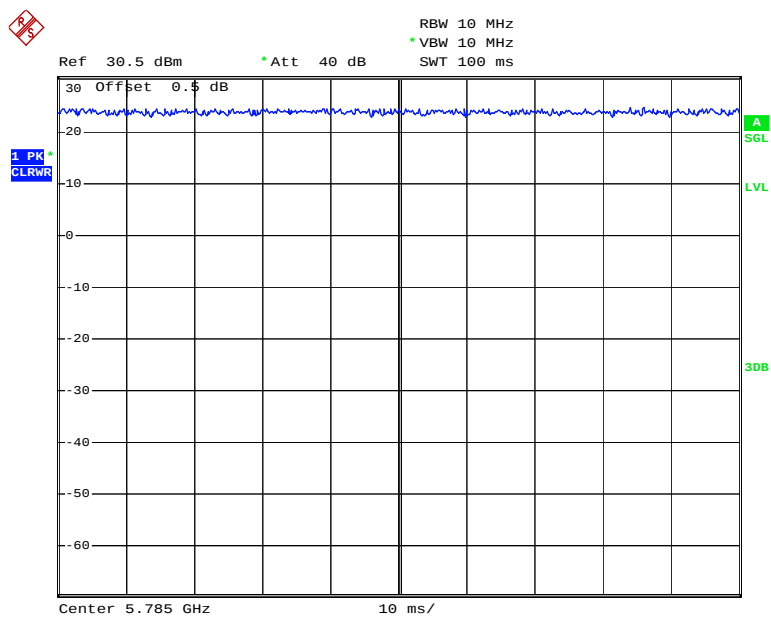
Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11 a	100	100	100
802.11n ht20	100	100	100
802.11n ht40	100	100	100
5M	100	100	100
10M	100	100	100

802.11a



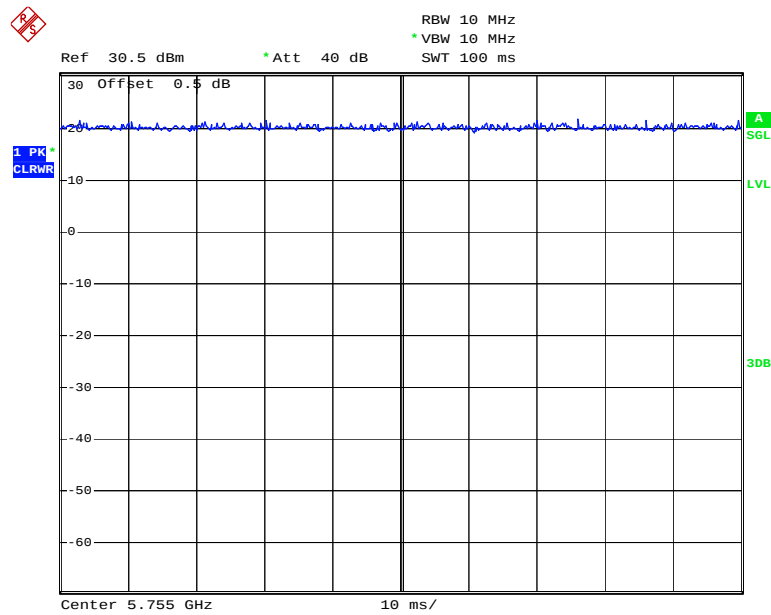
Date: 14.NOV.2017 17:17:22

802.11n ht20



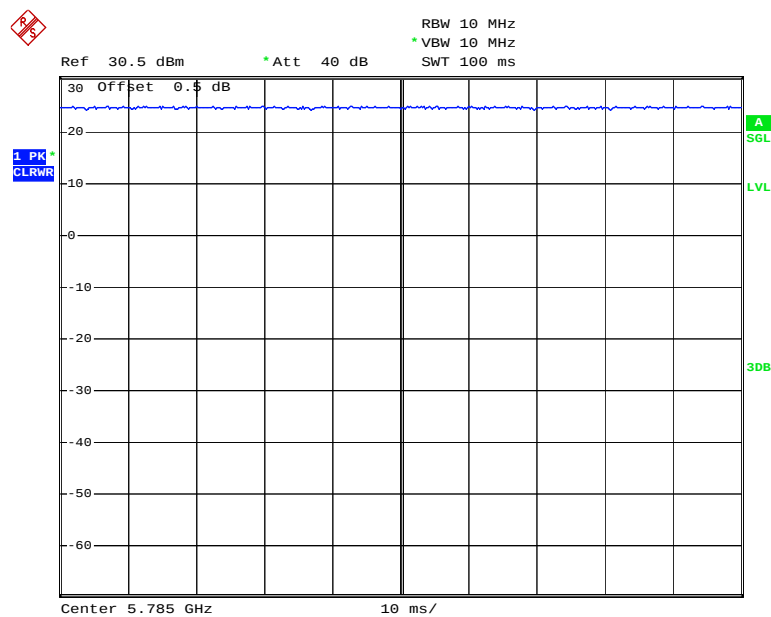
Date: 14.NOV.2017 17:17:53

802.11n ht40

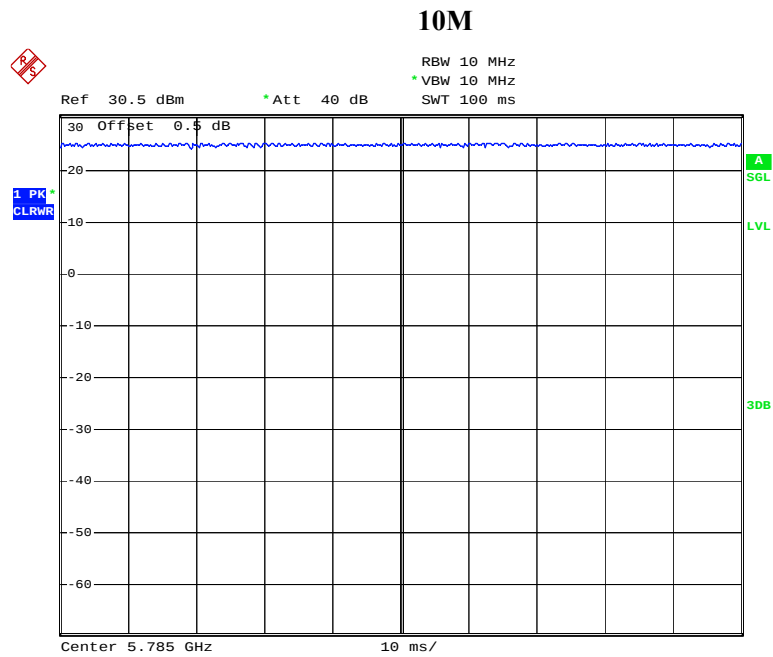


Date: 14.NOV.2017 17:19:01

5M

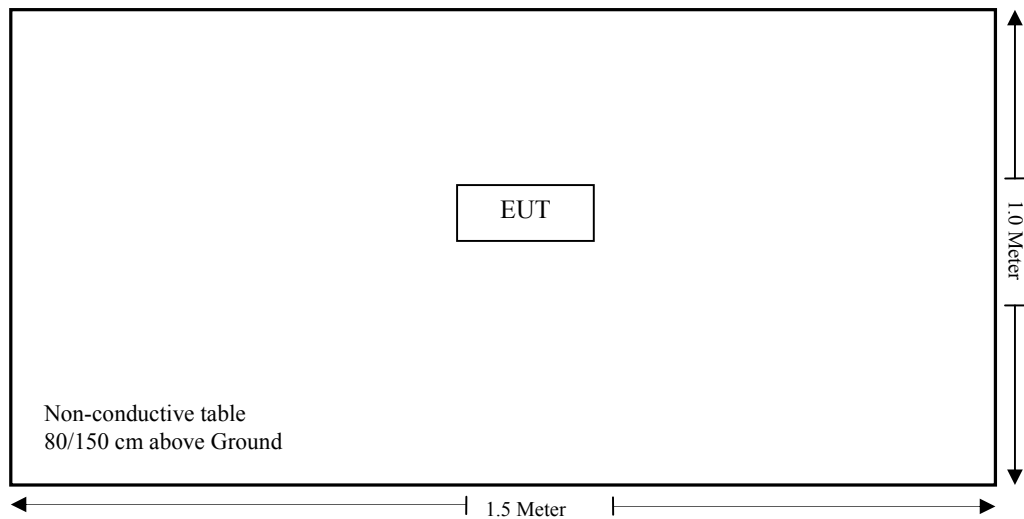


Date: 14.NOV.2017 17:19:53



Date: 14.NOV.2017 17:20:17

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.407 (f) & §1.1310 & §2.1093 RSS-102 §4	RF Exposure	Compliance
FCC§15.203 RSS-GEN§8.3	Antenna Requirement	Compliance
FCC§15.207 (a) RSS-Gen §8.8	AC Line Conducted Emissions	Not Applicable
FCC§15.205& §15.209 &§15.407(b) RSS-247§6.2	Undesirable Emission& Restricted Bands	Compliance
FCC§15.407(b) (1),(2),(3),(4) RSS-247§6.2	Out Of Band Emissions	Compliance
FCC§15.407(a) RSS-247 §6.2 RSS-Gen§6.6	Emission Bandwidth	Compliance
FCC§15.407(a) RSS-247 §6.2	Conducted Transmitter Output Power	Compliance
FCC§15.407 (a) RSS-247 §6.2	Power Spectral Density	Compliance
FCC§15.407(g)	Frequency stability	Compliance

FCC §15.407 (f) & §1.1310 & §2.1093 , RSS-102 §4- RF EXPOSURE**Applicable Standard**

According to subpart 15.407(f), §1.1310 and §2.1093.

According to RSS-102 §4 Table 3, SAR limits for device used by the general public

Body Region	Average SAR (W/Kg)	Averaging Time (minutes)	Mass Average (g)
Whole Body	0.08	6	Whole Body
Localized Head, Neck and Trunk	1.6	6	1
Localized Limbs	4	6	10

Test Result

Compliant, please refer to the SAR report: RDG171013008-20.

FCC §15.203 ,RSS-GEN§8.3- ANTENNA REQUIREMENT**Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

According to RSS-Gen §8.3, The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.⁹ When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

Antenna Connector Construction

The EUT has 2 external antennas permanently attached to the unit, and the antennas gain in the below information list, fulfill the requirement of the item. Please refer to the internal photos.

Antenna Chain	Antenna Type	Antenna gain
0	PCB	5.51 dBi @ 2.4G Band 3.74 dBi @ 5.8G Band
1	PCB	4.94 dBi @ 2.4G Band 3.09 dBi @ 5.8G Band

Result: Compliance.

**FCC §15.209, §15.205 , §15.407(b) & RSS-247 §6.2, RSS-GEN§8.10–
UNWANTED EMISSION**

Applicable Standard

According to FCC §15.407; §15.209; §15.205;

(b) *Undesirable emission limits.* Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 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.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

According to RSS-247§6.2

Frequency band 5150-5250 MHz

6.2.1.2 Unwanted emission limits

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Frequency band 5250-5350 MHz

6.2.2.2 Unwanted emission limits

Devices shall comply with the following:

- a) All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or
- b) All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text “for indoor use only.”

Frequency bands 5470-5600 MHz and 5650-5725 MHz:

6.2.3.2 Unwanted emission limits

Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

Frequency band 5725-5850 MHz

6.2.4.2 Unwanted emission limits

Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

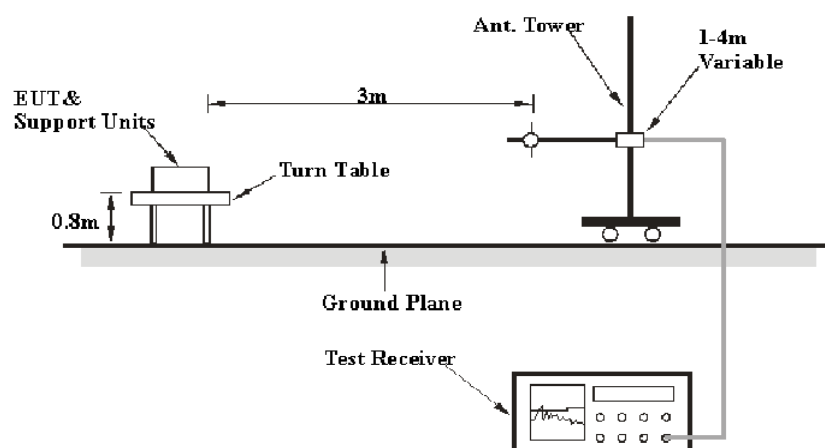
Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

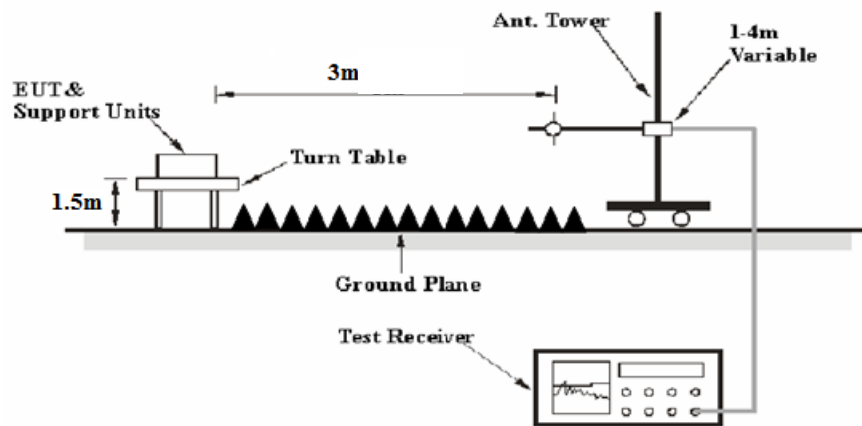
Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- 27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

EUT Setup

Below 1 GHz:



Above 1 GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.407 and RSS-247, RSS-Gen limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 40GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

All emissions under the average limit and under the noise floor have not recorded in the report.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Extrapolation result} - \text{Limit}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2017-09-01	2018-09-01
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
unknown	Coaxial Cable	4m	C0400/01	2017-09-05	2018-09-05
unknown	Coaxial Cable	0.75m	C0075/01	2017-09-05	2018-09-05
unknown	Coaxial Cable	10m	C1000/01	2017-09-05	2018-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-05
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2017-09-05	2018-09-05
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2016-11-18	2019-11-18
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017-06-27	2018-06-27
unknown	Coaxial Cable	8m	C0800/01	2017-09-05	2018-09-05
R&S	Spectrum Analyzer	FSP 38	100478	2016-12-08	2017-12-08
Chengdu OuLi	Bandrejector Filter	5725-5850	005	2017-09-05	2018-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

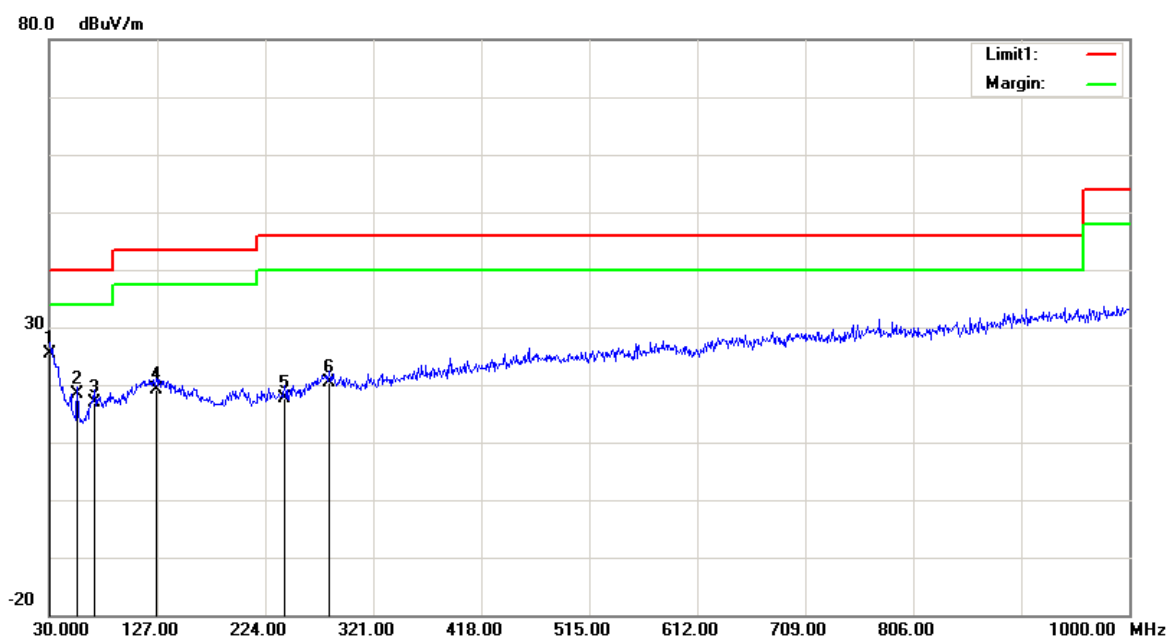
Temperature:	25.3 °C
Relative Humidity:	27 %
ATM Pressure:	101 kPa

The testing was performed by Steven Zuo on 2017-10-03.

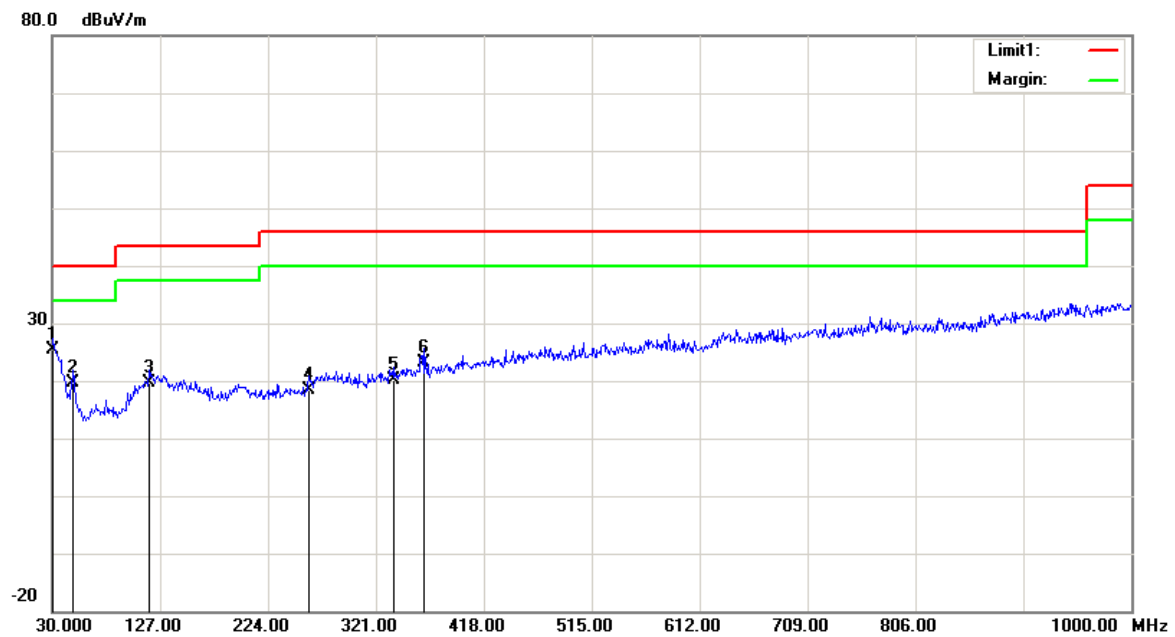
Test Mode: Transmitting(2TX mode was the worst)

1) 30MHz-1GHz(802.11n ht20 mode middle channel was the worst):

Horizontal:



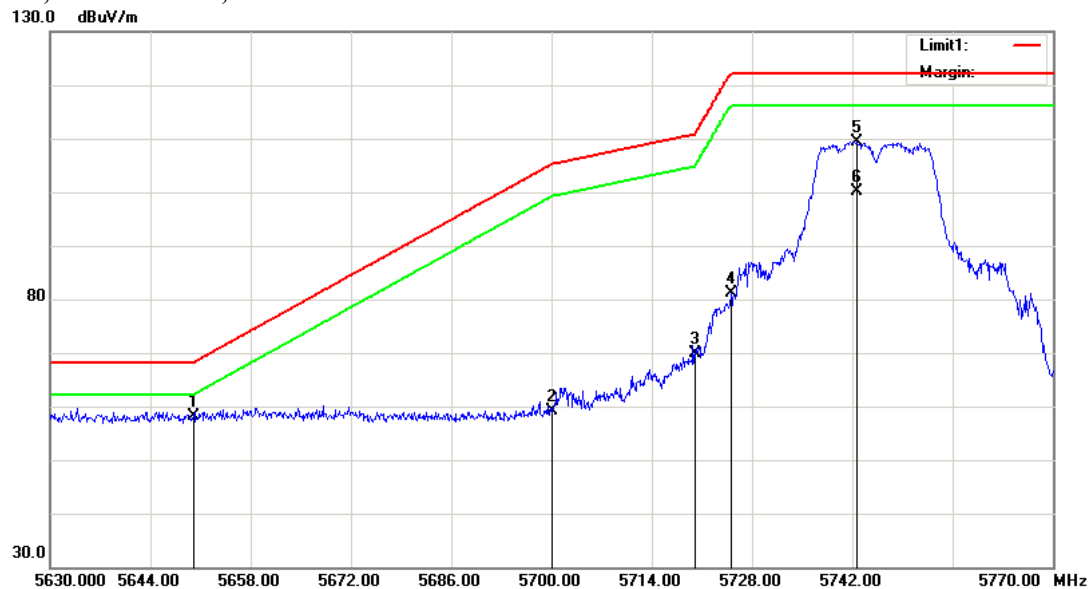
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	25.05	QP	0.35	25.40	40.00	14.60
55.2200	30.72	QP	-12.42	18.30	40.00	21.70
70.7400	28.28	QP	-11.28	17.00	40.00	23.00
126.0300	24.08	QP	-4.88	19.20	43.50	24.30
241.4600	23.95	QP	-6.25	17.70	46.00	28.30
281.2300	23.93	QP	-3.63	20.30	46.00	25.70

Vertical:

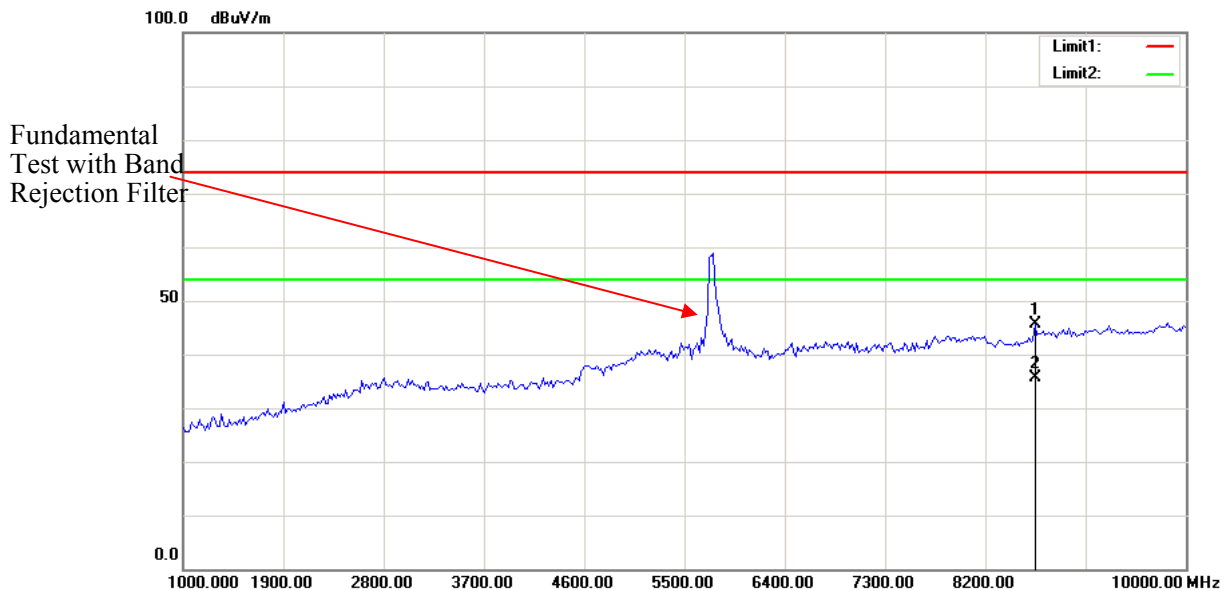
Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.9700	24.95	QP	0.35	25.30	40.00	14.70
48.4300	30.69	QP	-11.09	19.60	40.00	20.40
117.3000	24.71	QP	-5.01	19.70	43.50	23.80
260.8600	23.52	QP	-5.12	18.40	46.00	27.60
337.4900	23.76	QP	-3.56	20.20	46.00	25.80
364.6500	25.95	QP	-2.85	23.10	46.00	22.90

2) 1-40GHz:

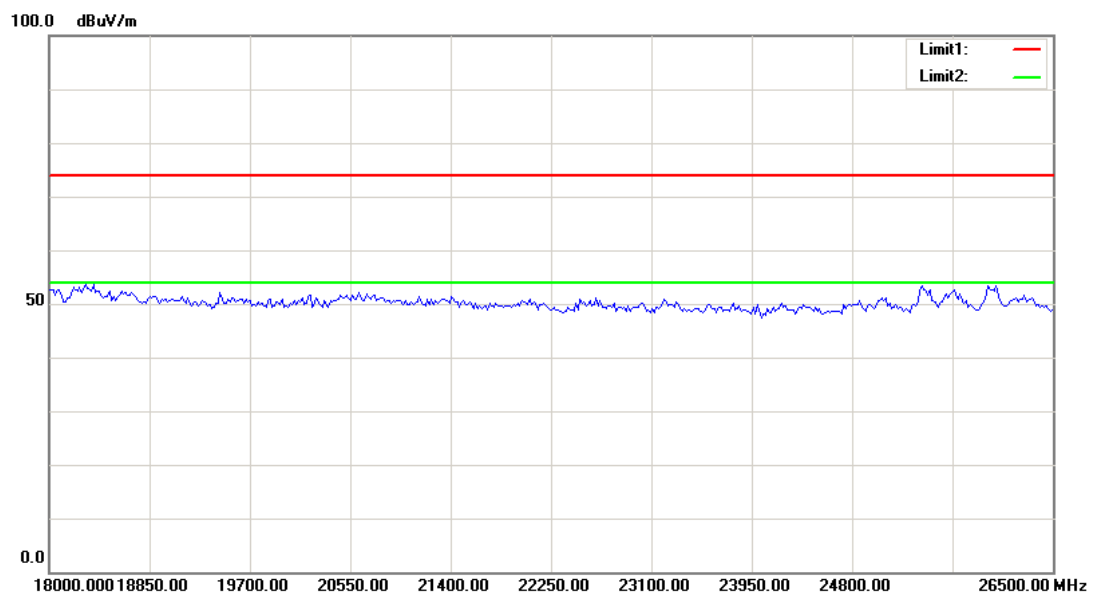
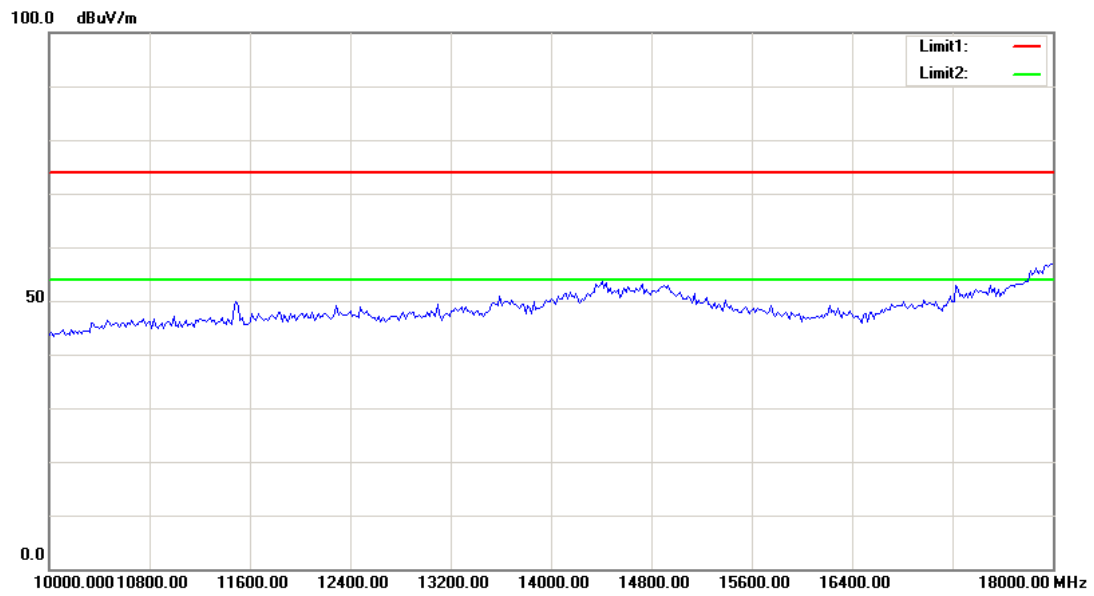
802.11a, Low Channel, Horizontal

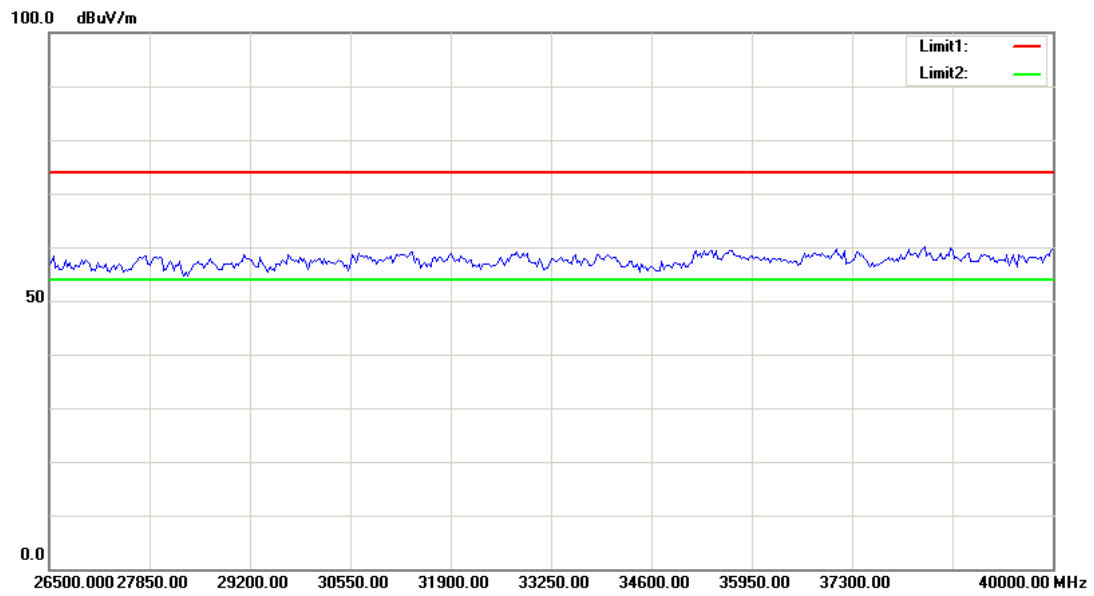


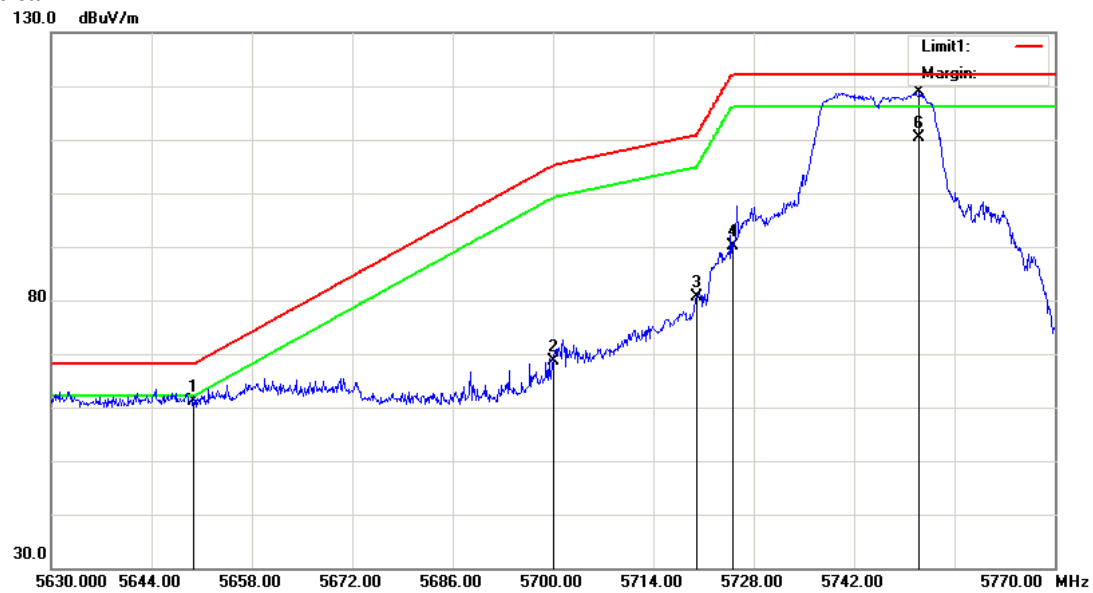
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	26.37	peak	31.79	58.16	68.20	10.04	149	53	
2	5700.000	27.33	peak	31.86	59.19	105.20	46.01	149	53	
3	5720.000	37.95	peak	31.88	69.83	110.80	40.97	149	53	
4	5725.000	49.25	peak	31.88	81.13	122.20	41.07	149	53	
5	5742.560	77.54	peak	31.89	109.43	N/A	N/A	149	53	Fundamental
6	5742.560	68.21	AVG	31.89	100.10	N/A	N/A	149	53	Fundamental



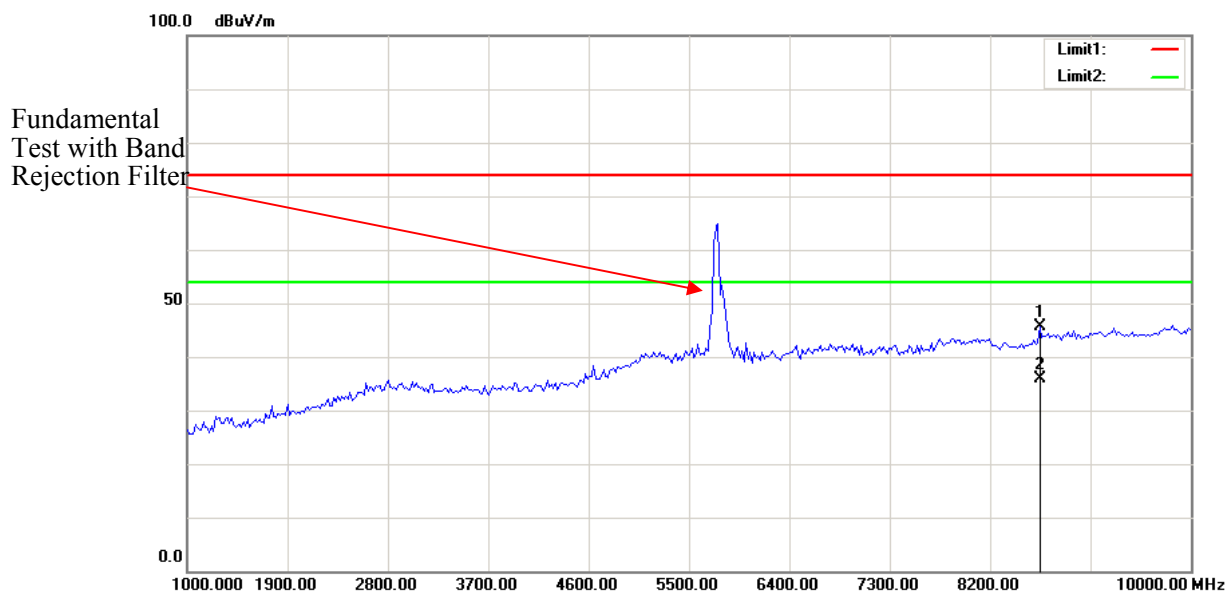
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8647.294	45.96	peak	-0.31	45.65	74.00	28.35	150	55	
2	8647.294	36.00	AVG	-0.31	35.69	54.00	18.31	150	55	



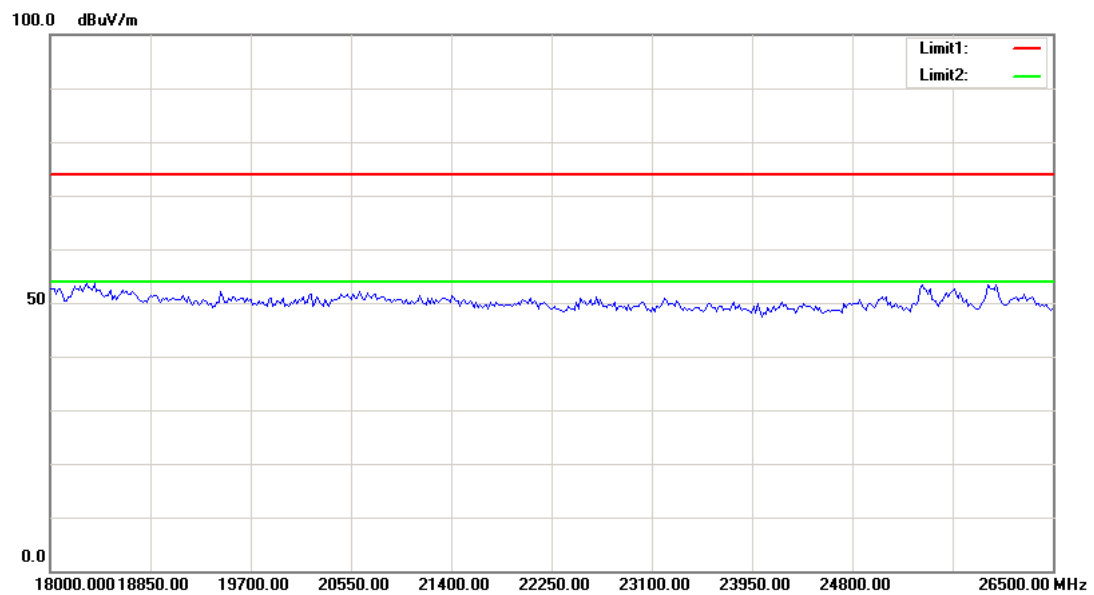
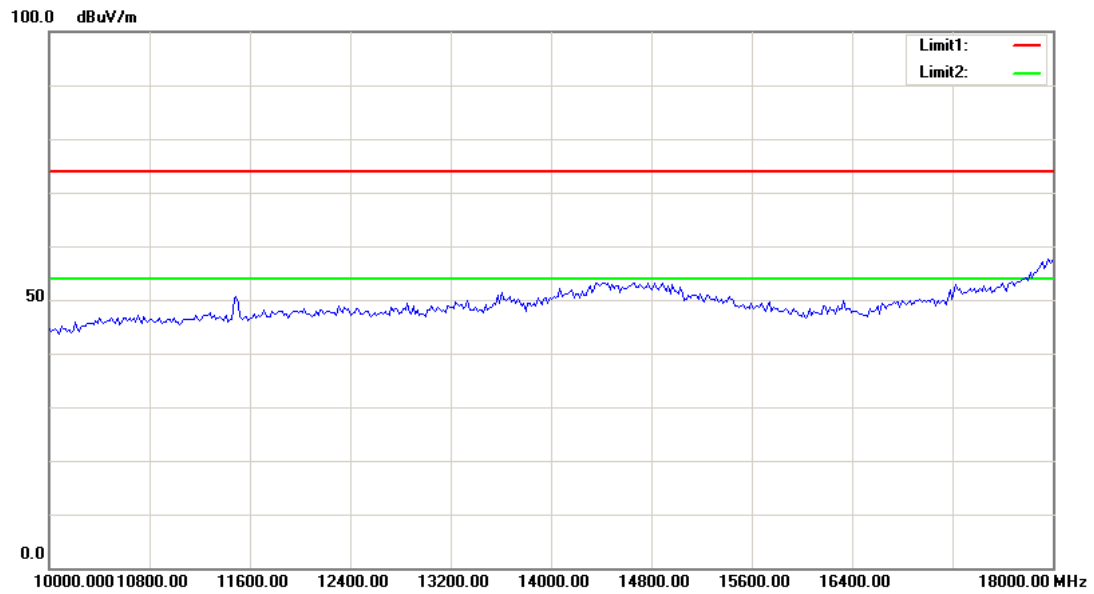


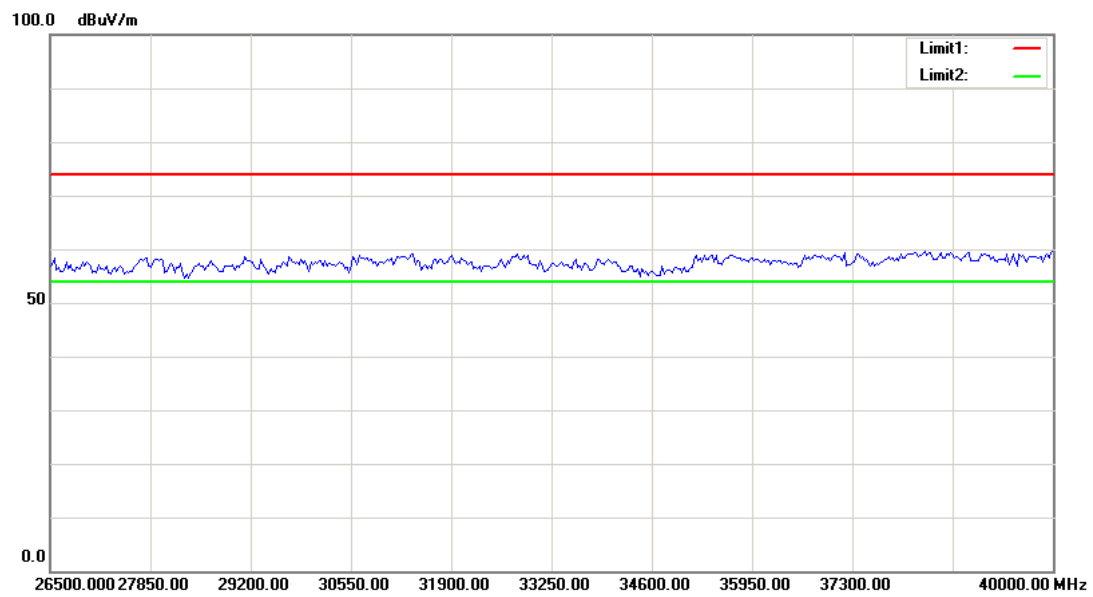
Vertical

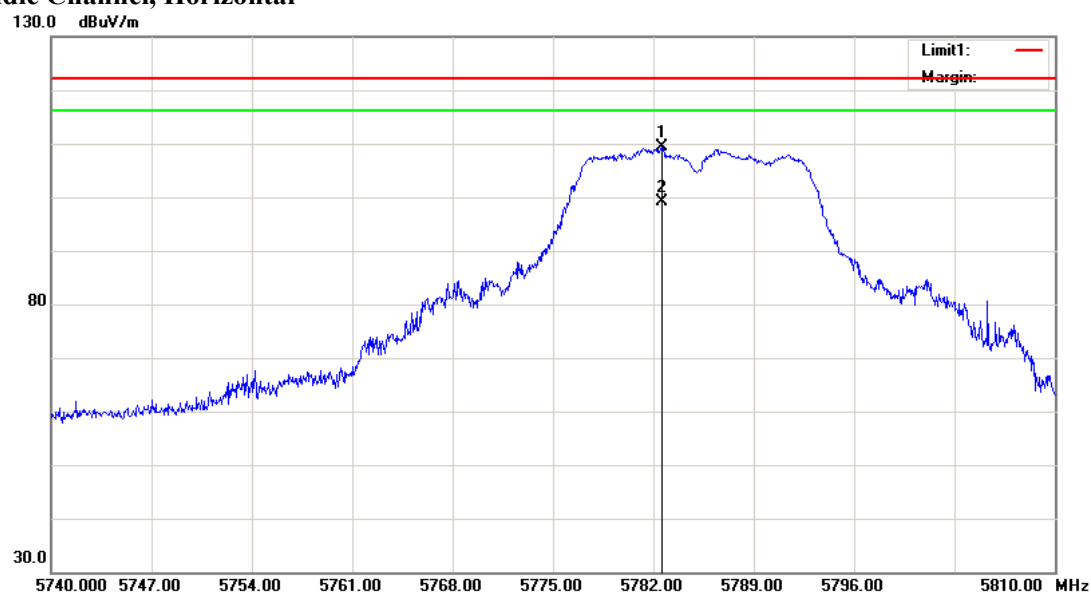
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	29.26	peak	31.79	61.05	68.20	7.15	163	225	
2	5700.000	36.74	peak	31.86	68.60	105.20	36.60	163	225	
3	5720.000	48.82	peak	31.88	80.70	110.80	30.10	163	225	
4	5725.000	58.28	peak	31.88	90.16	122.20	32.04	163	225	
5	5751.100	87.03	peak	31.90	118.93	N/A	N/A	163	225	Fundamental
6	5751.100	78.54	AVG	31.90	110.44	N/A	N/A	163	225	Fundamental



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8647.294	45.96	peak	-0.31	45.65	74.00	28.35	160	59	
2	8647.294	36.15	AVG	-0.31	35.84	54.00	18.16	160	59	

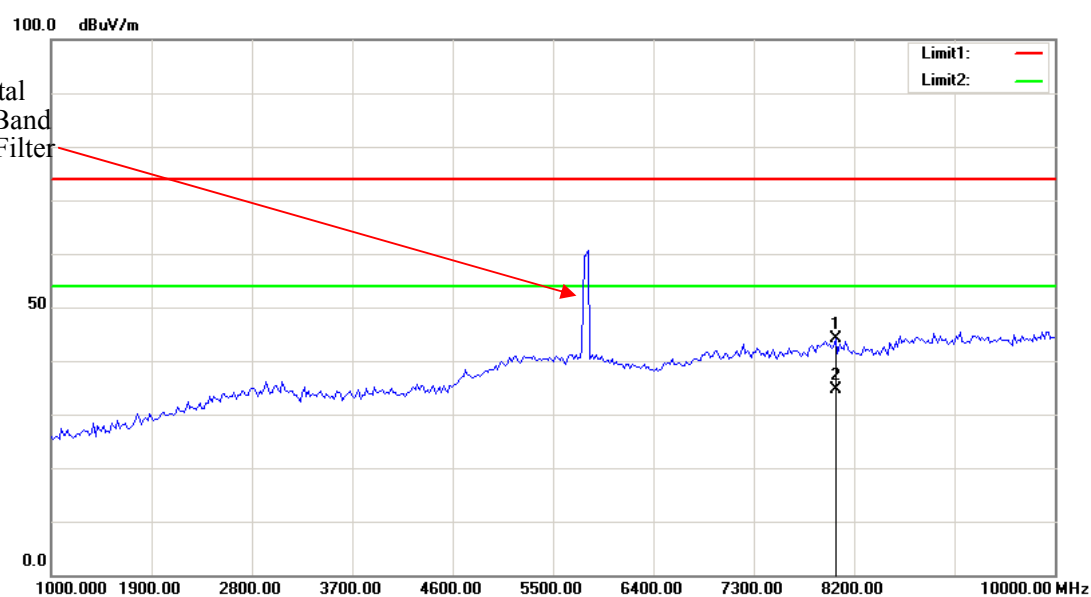




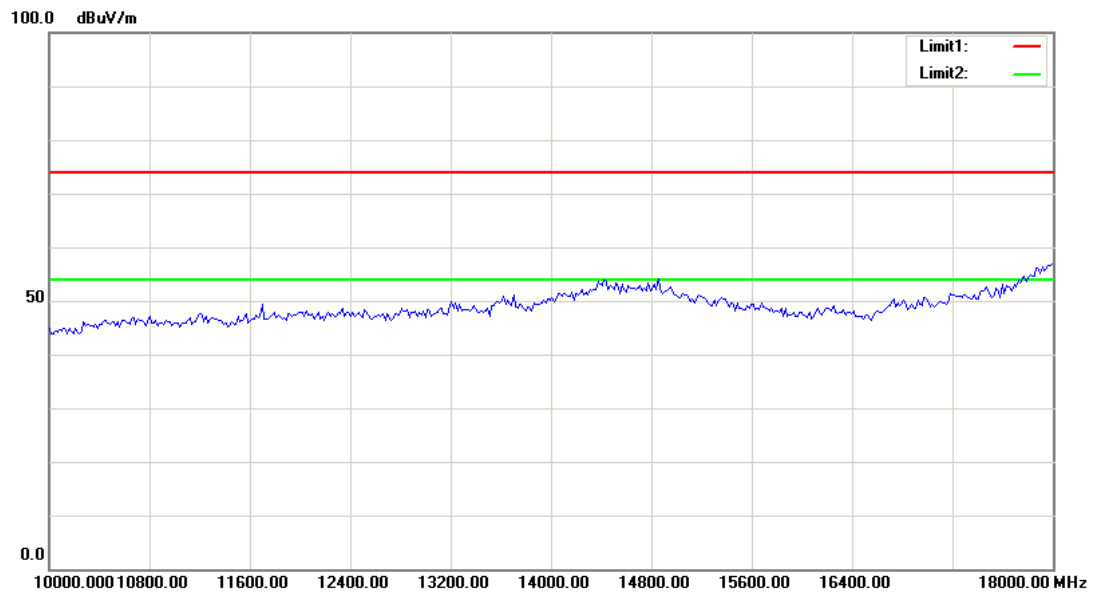
Middle Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5782.630	77.44	peak	31.91	109.35	N/A	N/A	164	159	Fundamental
2	5782.630	67.33	AVG	31.91	99.24	N/A	N/A	164	159	Fundamental

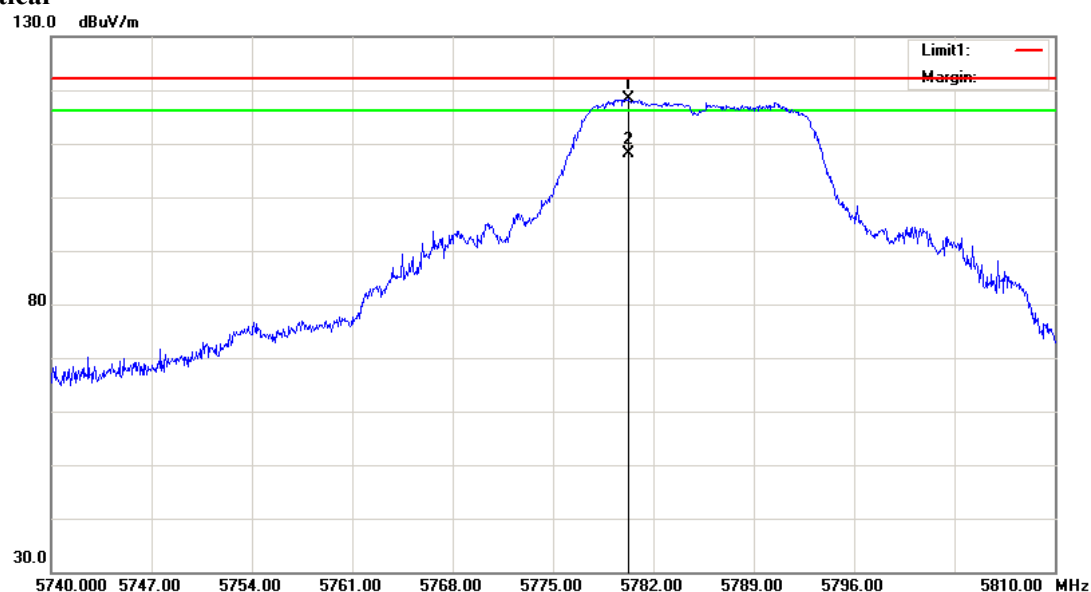
Fundamental
Test with Band
Rejection Filter



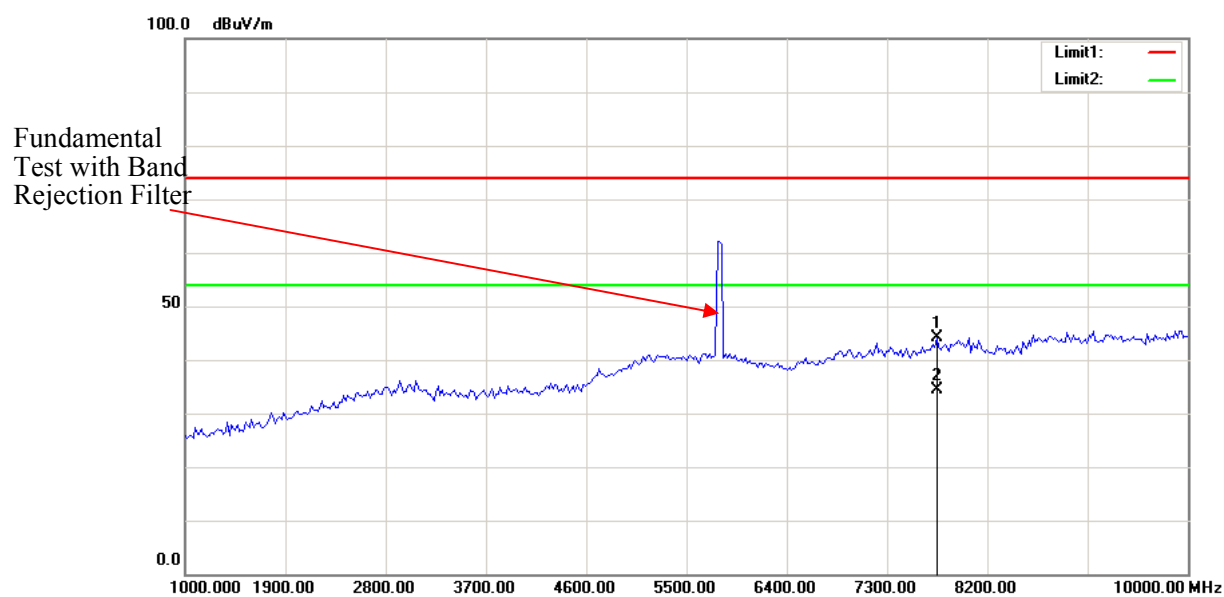
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8034.068	45.22	peak	-1.12	44.10	74.00	29.90	155	55	
2	8034.068	35.71	AVG	-1.12	34.59	54.00	19.41	155	55	



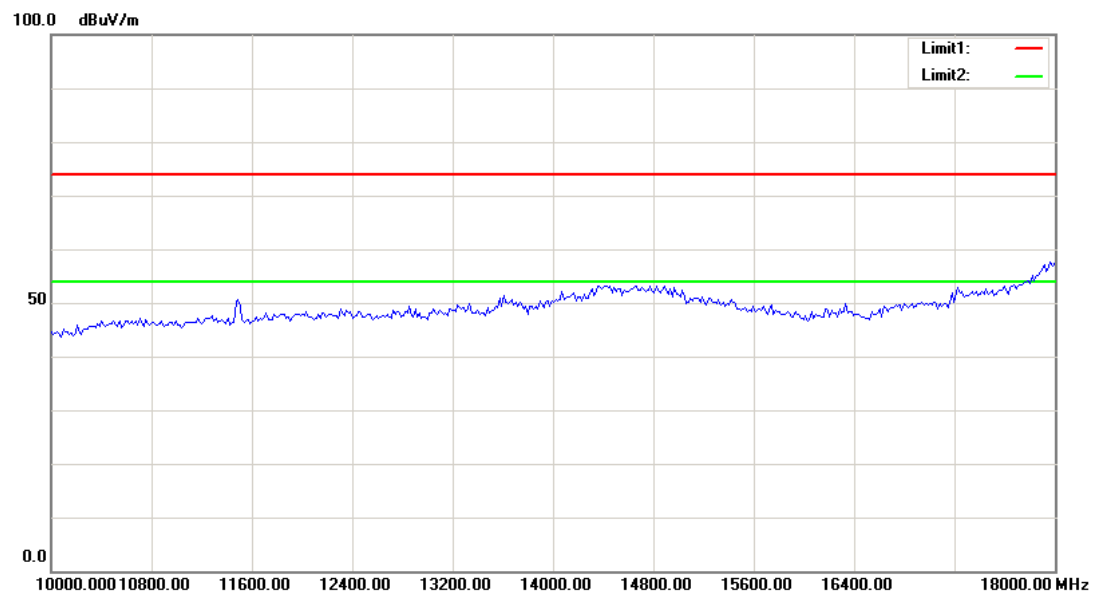
Note: No emission was detected in the range 18-40GHz.

Vertical

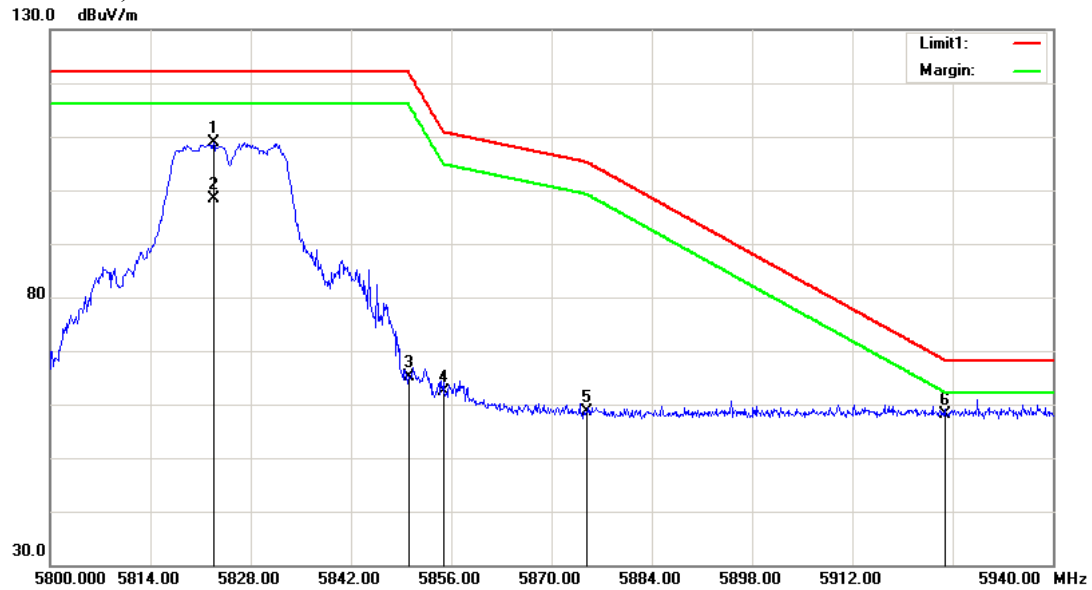
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5780.250	86.35	peak	31.91	118.26	N/A	N/A	169	158	Fundamental
2	5780.250	76.20	AVG	31.91	108.11	N/A	N/A	169	158	Fundamental



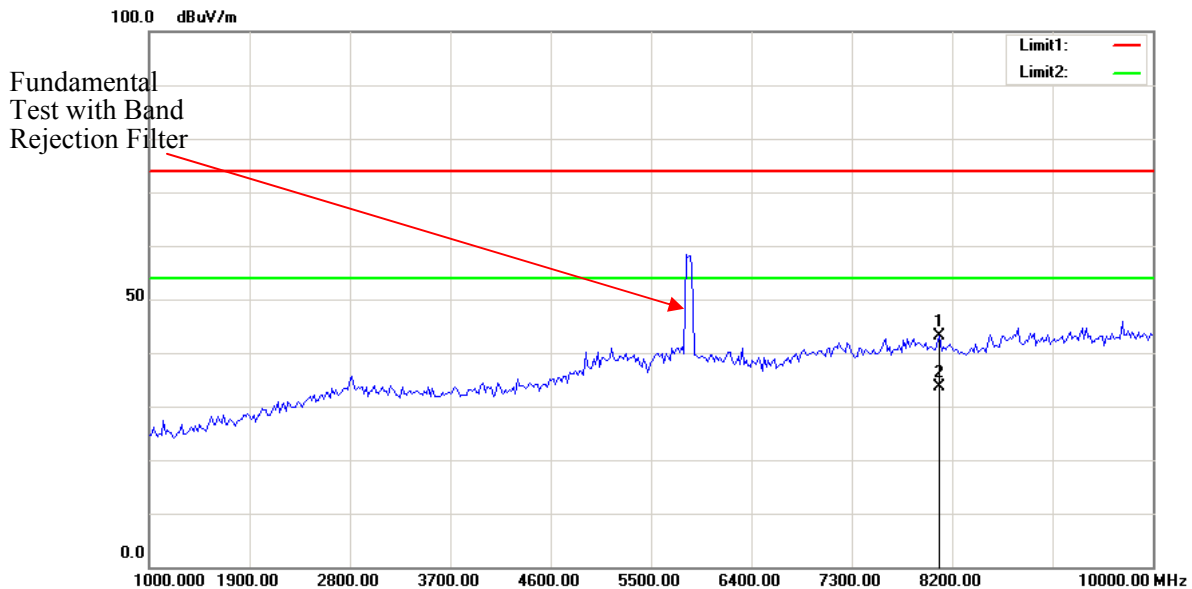
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7745.491	46.09	peak	-1.99	44.10	74.00	29.90	170	49	
2	7745.491	36.28	AVG	-1.99	34.29	54.00	19.71	170	49	



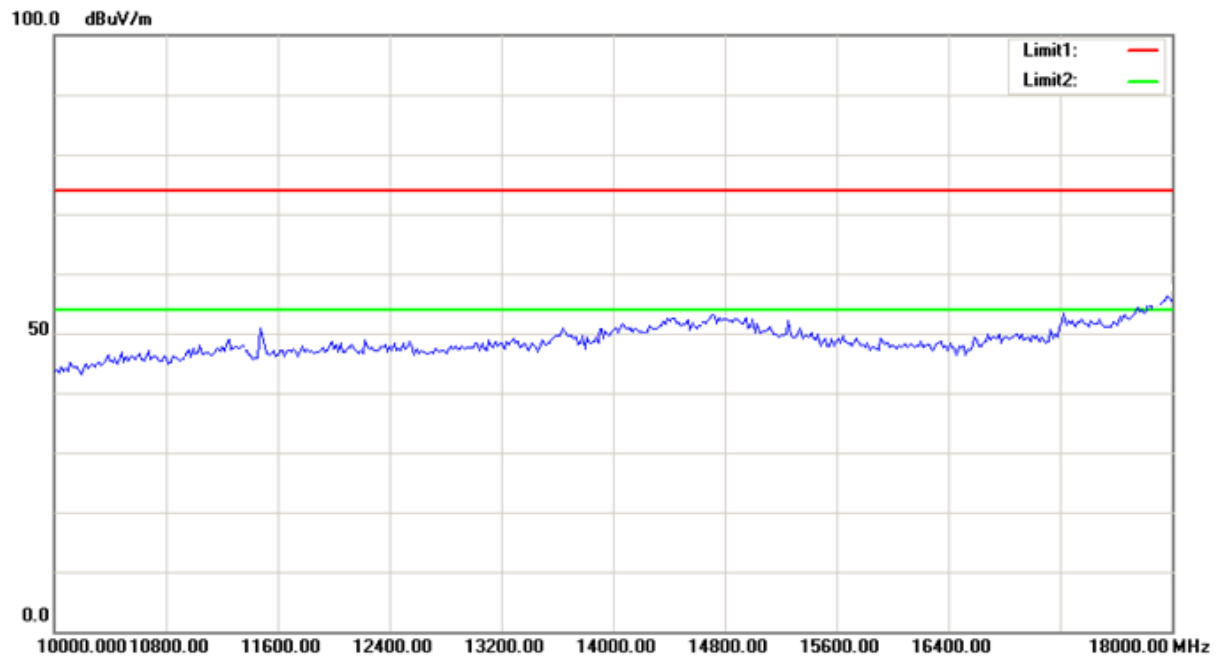
Note: No emission was detected in the range 18-40GHz.

High Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5822.820	76.87	peak	31.96	108.83	N/A	N/A	170	144	Fundamental
2	5822.820	66.49	AVG	31.96	98.45	N/A	N/A	170	144	Fundamental
3	5850.000	33.22	peak	31.99	65.21	122.20	56.99	170	144	
4	5855.000	30.49	peak	31.99	62.48	110.80	48.32	170	144	
5	5875.000	26.65	peak	32.02	58.67	105.20	46.53	170	144	
6	5925.000	26.12	peak	32.07	58.19	68.20	10.01	170	144	



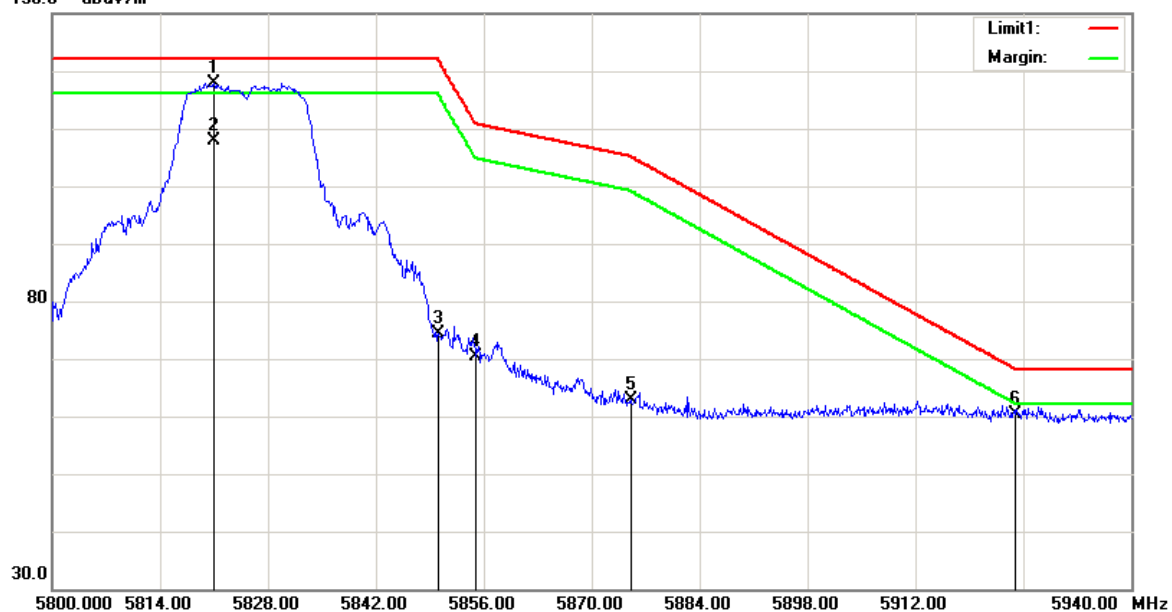
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8088.176	44.10	peak	-1.05	43.05	74.00	30.95	161	77	
2	8088.176	34.66	AVG	-1.05	33.61	54.00	20.39	161	77	



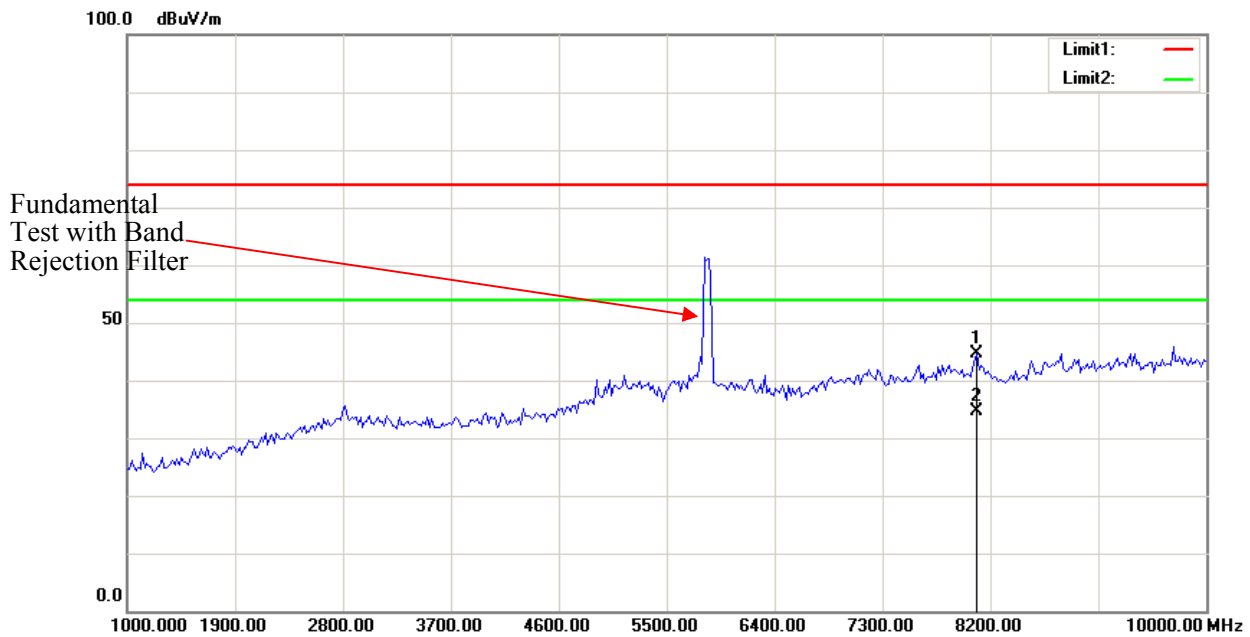
Note: No emission was detected in the range 18-40GHz.

Vertical

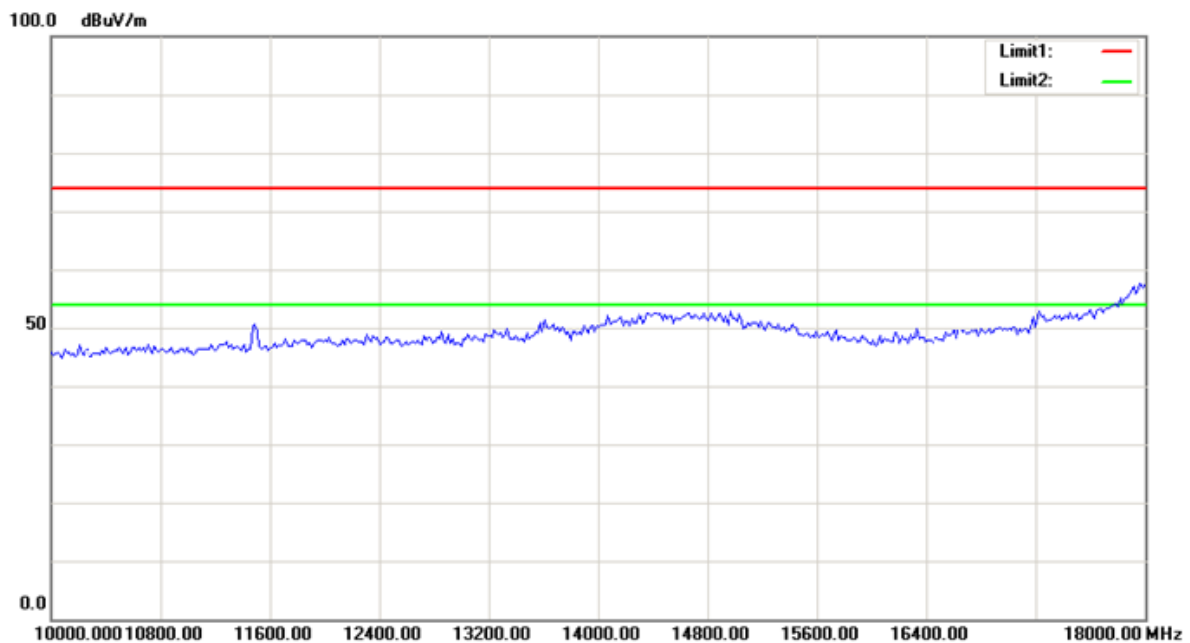
130.0 dBuV/m



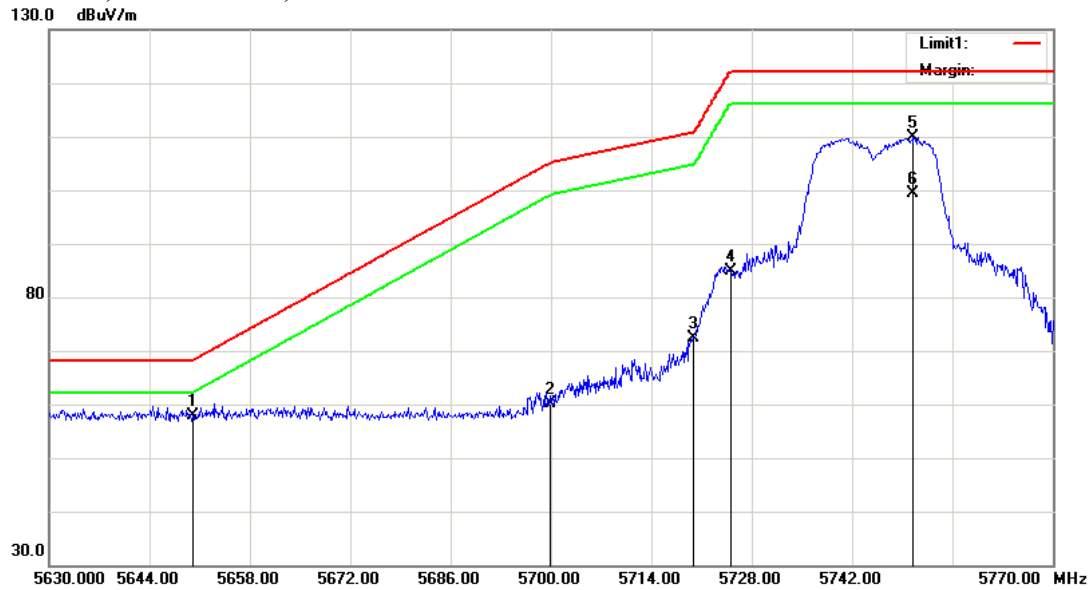
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5821.070	85.91	peak	31.96	117.87	N/A	N/A	180	44	Fundamental
2	5821.070	75.82	peak	31.96	107.78	N/A	N/A	180	44	Fundamental
3	5850.000	42.29	peak	31.99	74.28	122.20	47.92	180	44	
4	5855.000	38.44	peak	31.99	70.43	110.80	40.37	180	44	
5	5875.000	30.82	peak	32.02	62.84	105.20	42.36	180	44	
6	5925.000	28.36	peak	32.07	60.43	68.20	7.77	180	44	



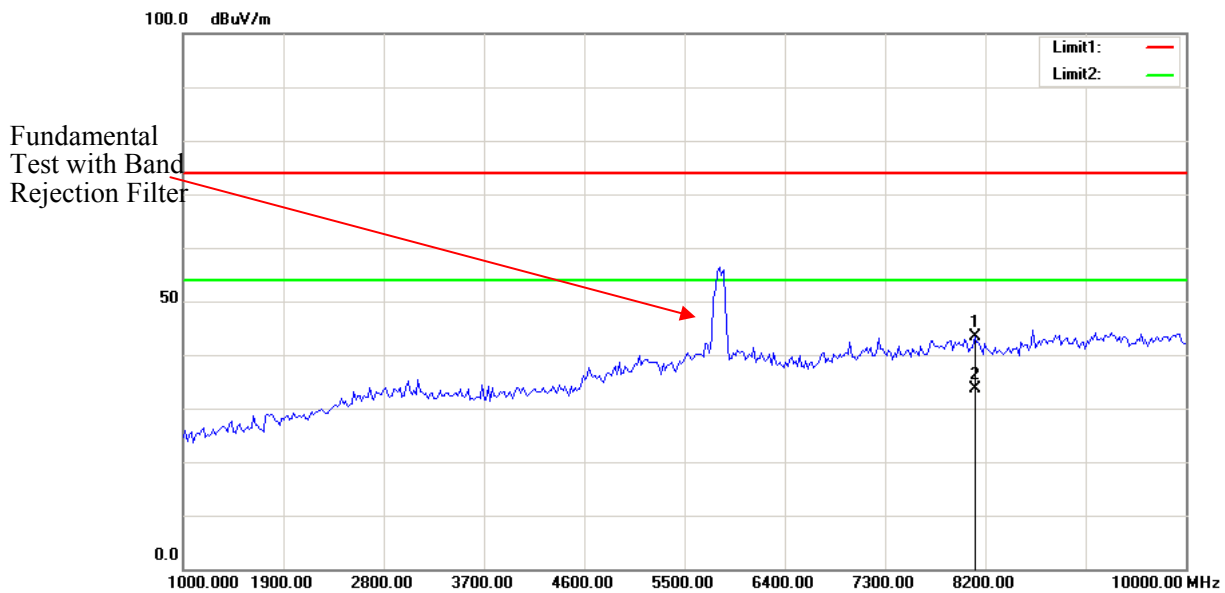
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8088.176	45.60	peak	-1.05	44.55	74.00	29.45	169	58	
2	8088.176	35.64	AVG	-1.05	34.59	54.00	19.41	169	58	



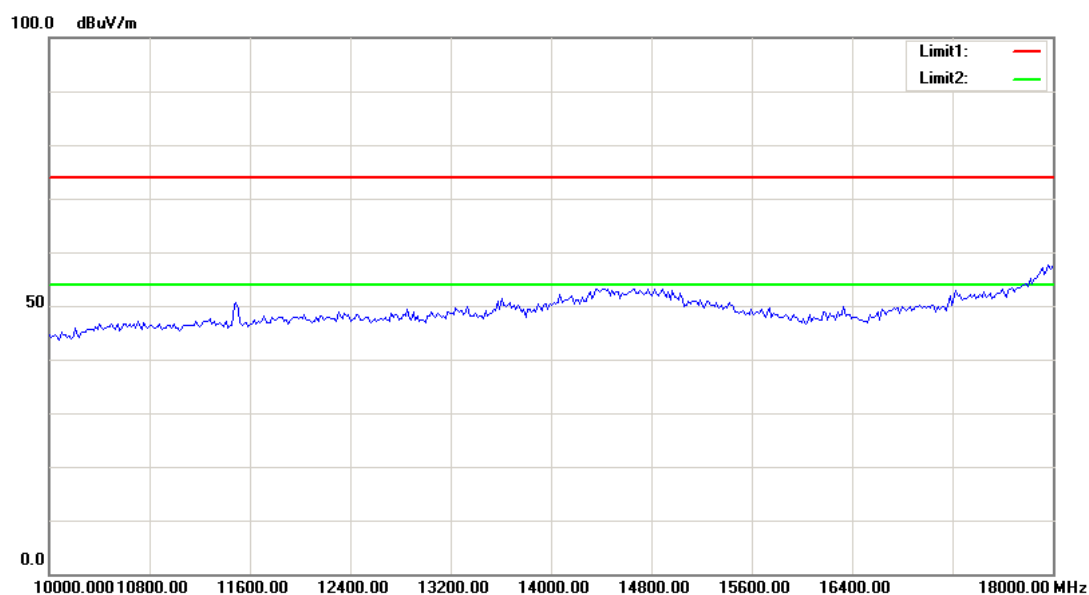
Note: No emission was detected in the range 18-40GHz.

802.11n ht20, Low Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	26.14	peak	31.79	57.93	68.20	10.27	166	89	
2	5700.000	28.33	peak	31.86	60.19	105.20	45.01	166	89	
3	5720.000	40.49	peak	31.88	72.37	110.80	38.43	166	89	
4	5725.000	53.04	peak	31.88	84.92	122.20	37.28	166	89	
5	5750.610	78.01	peak	31.90	109.91	N/A	N/A	166	89	Fundamental
6	5750.610	67.38	AVG	31.90	99.28	N/A	N/A	166	89	Fundamental

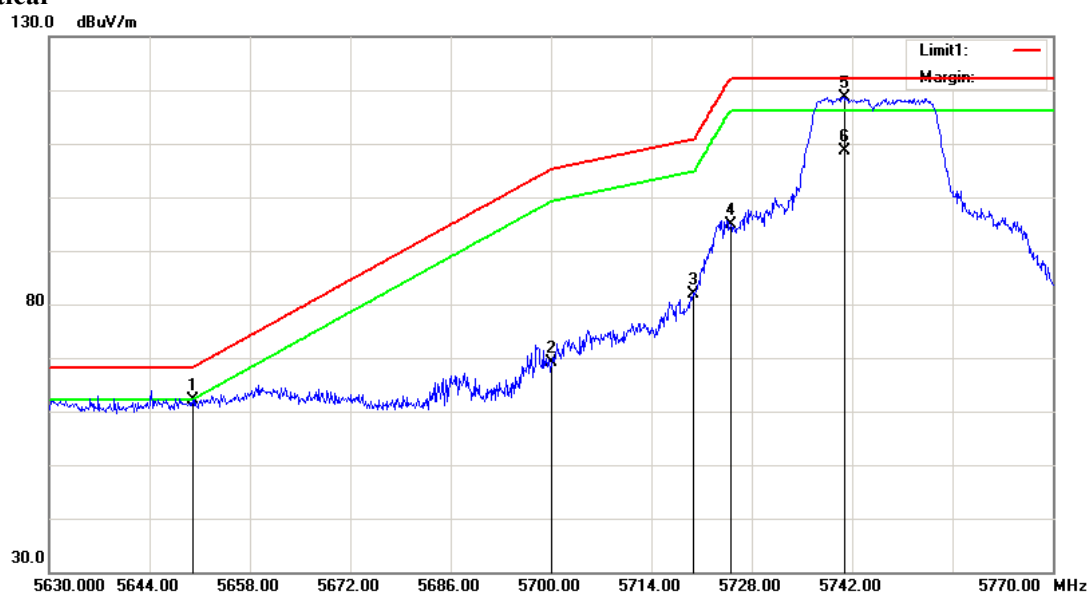


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8106.212	44.44	peak	-1.02	43.42	74.00	30.58	155	59	
2	8106.212	34.59	AVG	-1.02	33.57	54.00	20.43	155	59	

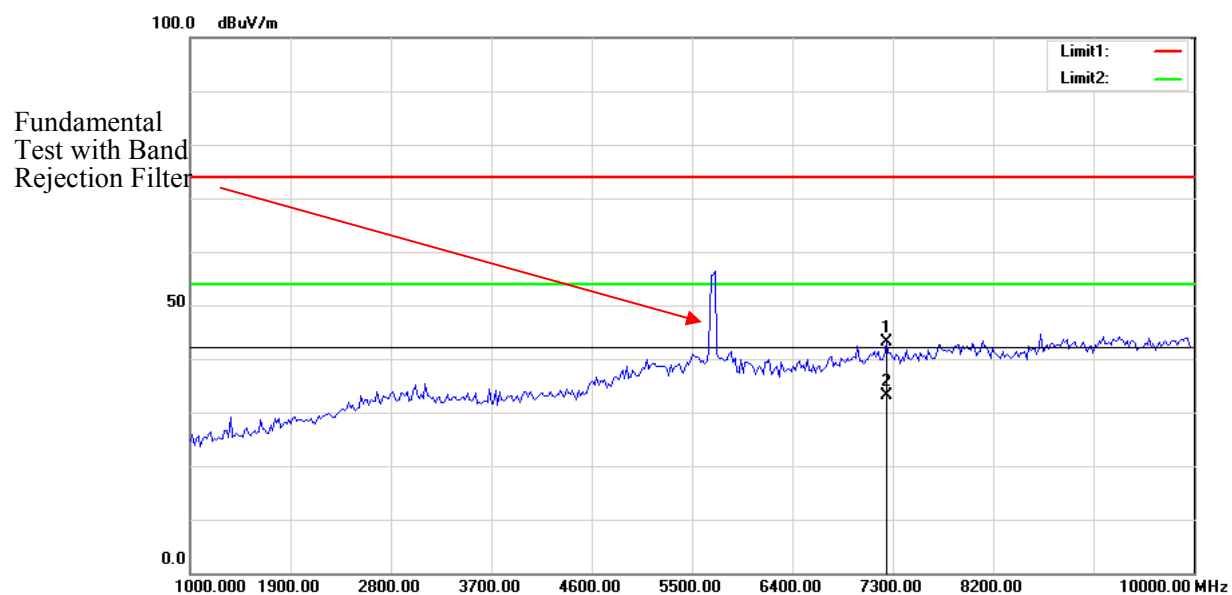


Note: No emission was detected in the range 18-40GHz.

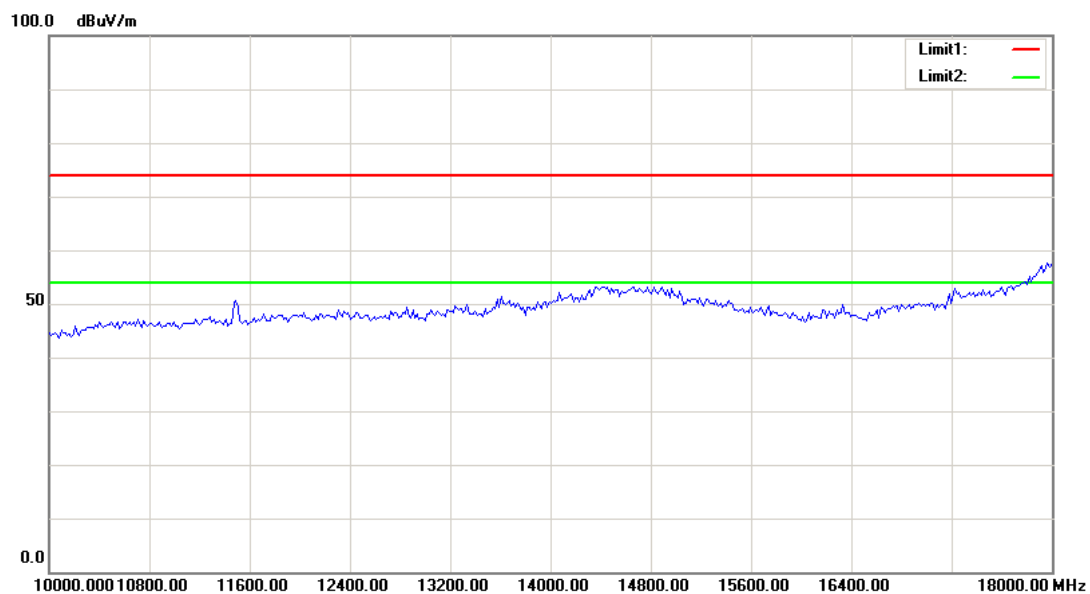
Vertical



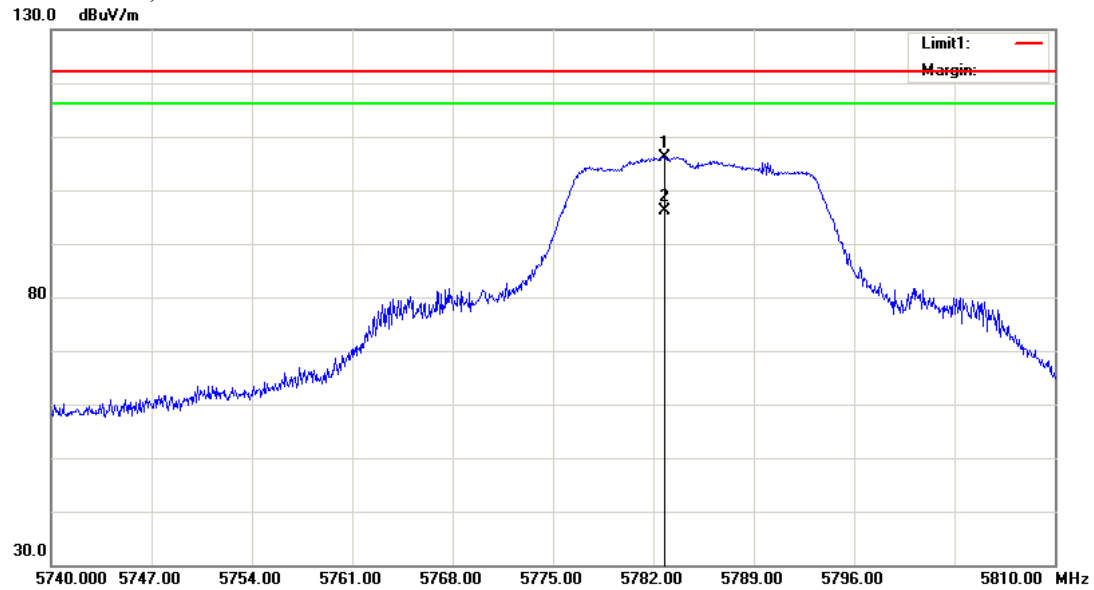
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	30.29	peak	31.79	62.08	68.20	6.12	133	100	
2	5700.000	37.38	peak	31.86	69.24	105.20	35.96	133	100	
3	5720.000	49.97	peak	31.88	81.85	110.80	28.95	133	100	
4	5725.000	63.02	peak	31.88	94.90	122.20	27.30	133	100	
5	5740.880	86.77	peak	31.89	118.66	N/A	N/A	133	100	Fundamental
6	5740.880	76.77	AVG	31.89	108.66	N/A	N/A	133	100	Fundamental



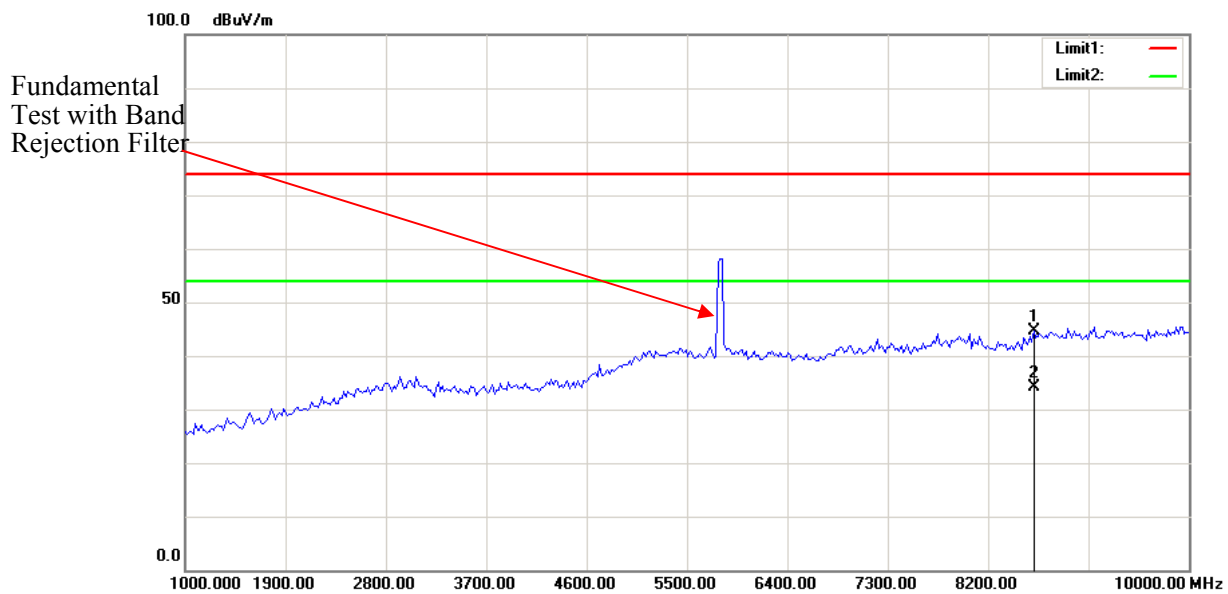
No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7240.481	45.84	peak	-2.68	43.16	74.00	30.84	144	56	
2	7240.481	35.93	AVG	-2.68	33.25	54.00	20.75	144	56	



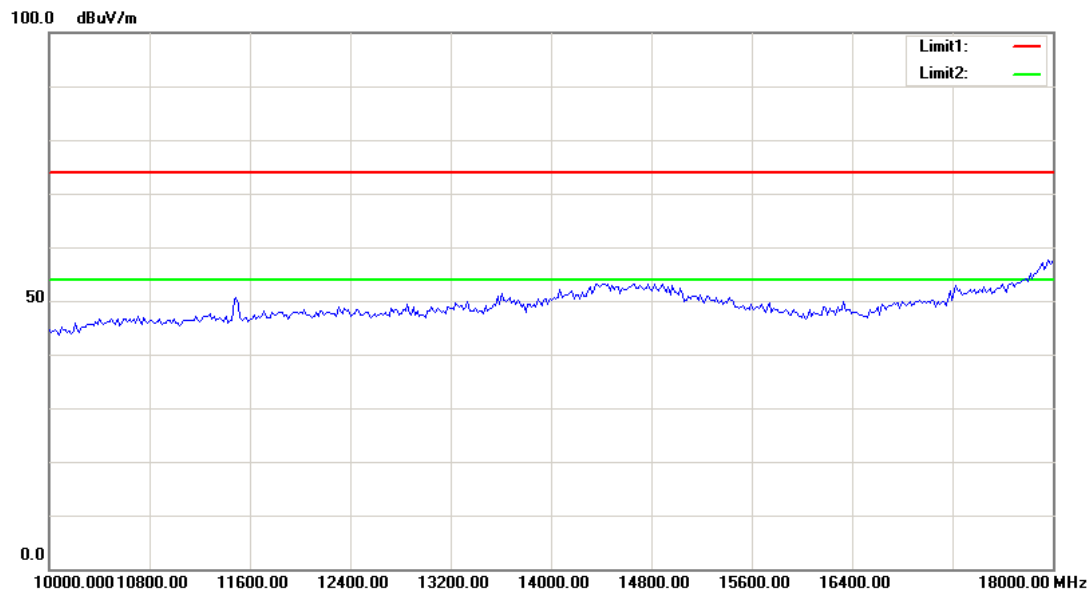
Note: No emission was detected in the range 18-40GHz.

Middle Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5782.770	74.29	peak	31.91	106.20	N/A	N/A	166	159	Fundamental
2	5782.770	64.34	AVG	31.91	96.25	N/A	N/A	166	159	Fundamental

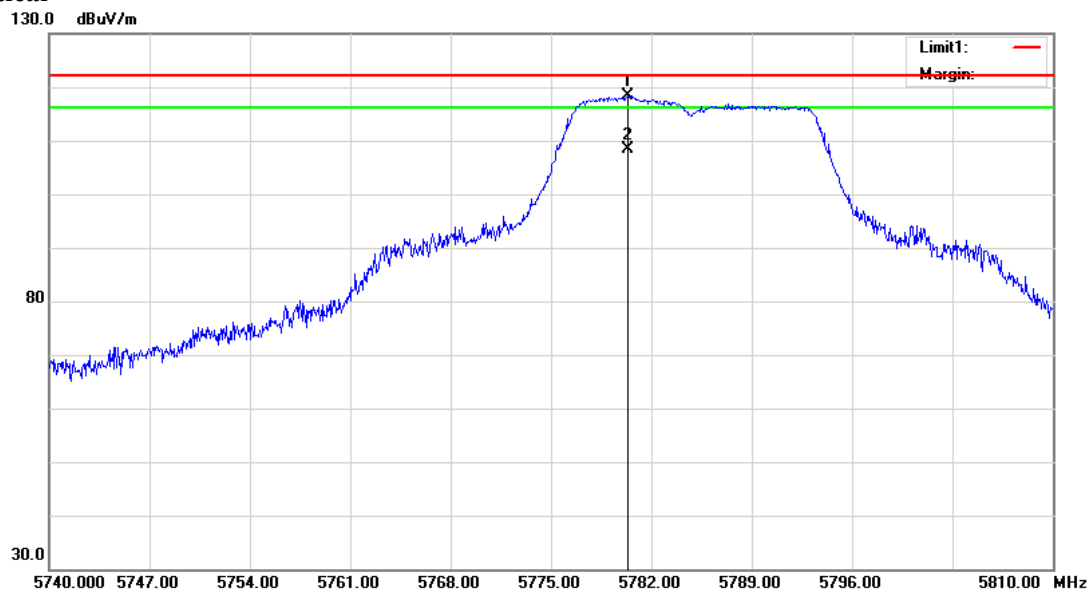


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8611.222	44.89	peak	-0.37	44.52	74.00	29.48	150	71	
2	8611.222	34.62	AVG	-0.37	34.25	54.00	19.75	150	71	

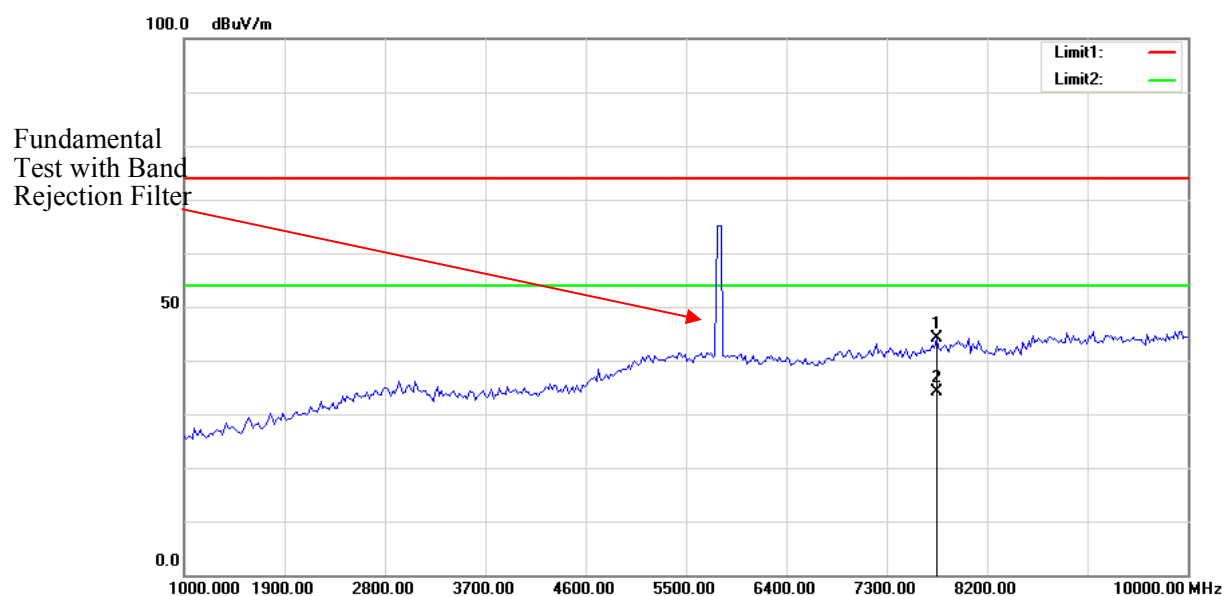


Note: No emission was detected in the range 18-40GHz.

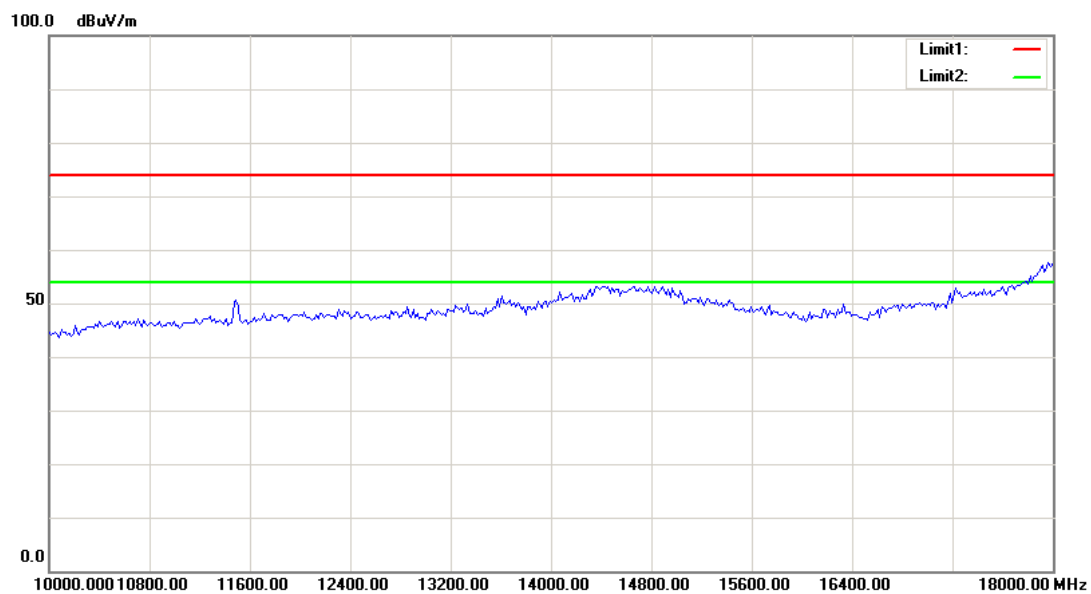
Vertical



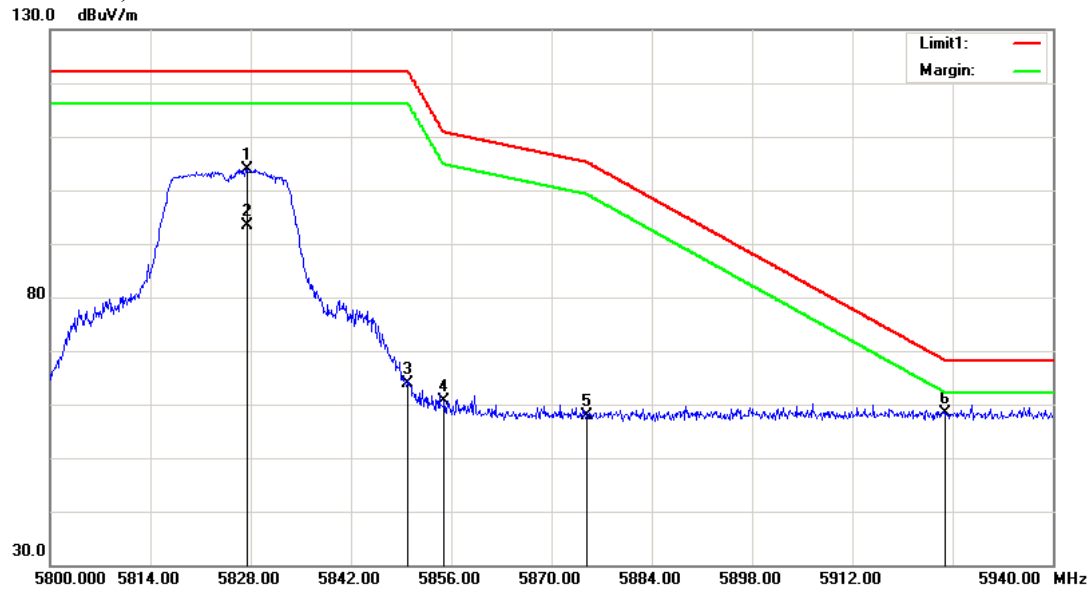
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5780.390	86.42	peak	31.91	118.33	N/A	N/A	168	190	Fundamental
2	5780.390	76.43	AVG	31.91	108.34	N/A	N/A	168	190	Fundamental



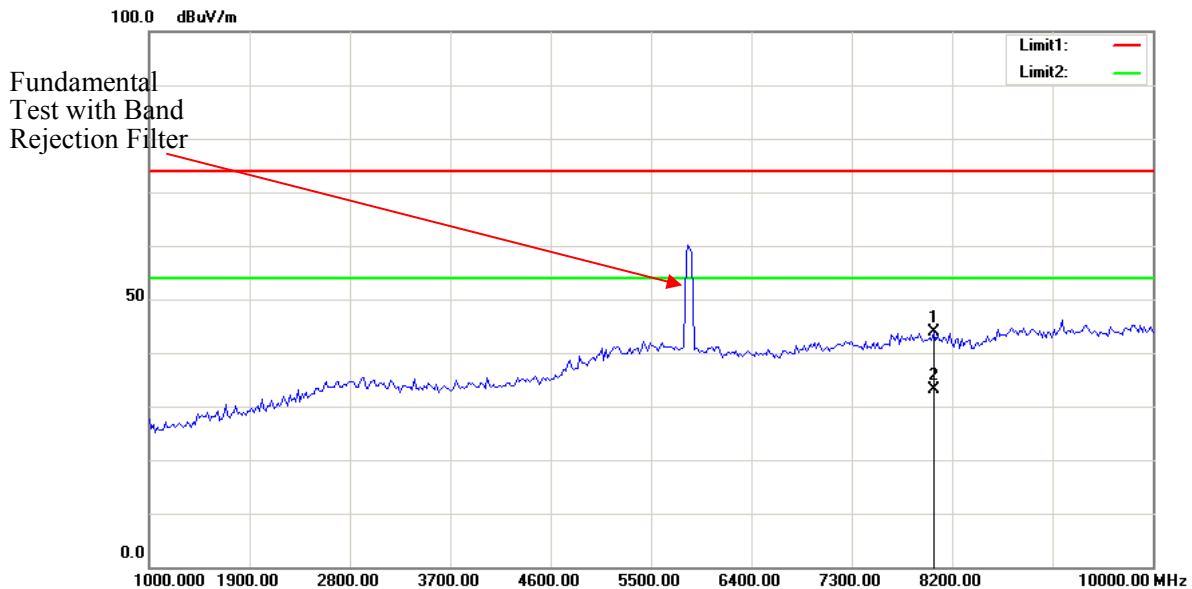
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7745.491	46.09	peak	-1.99	44.10	74.00	29.90	159	44	
2	7745.491	36.19	AVG	-1.99	34.20	54.00	19.80	159	44	



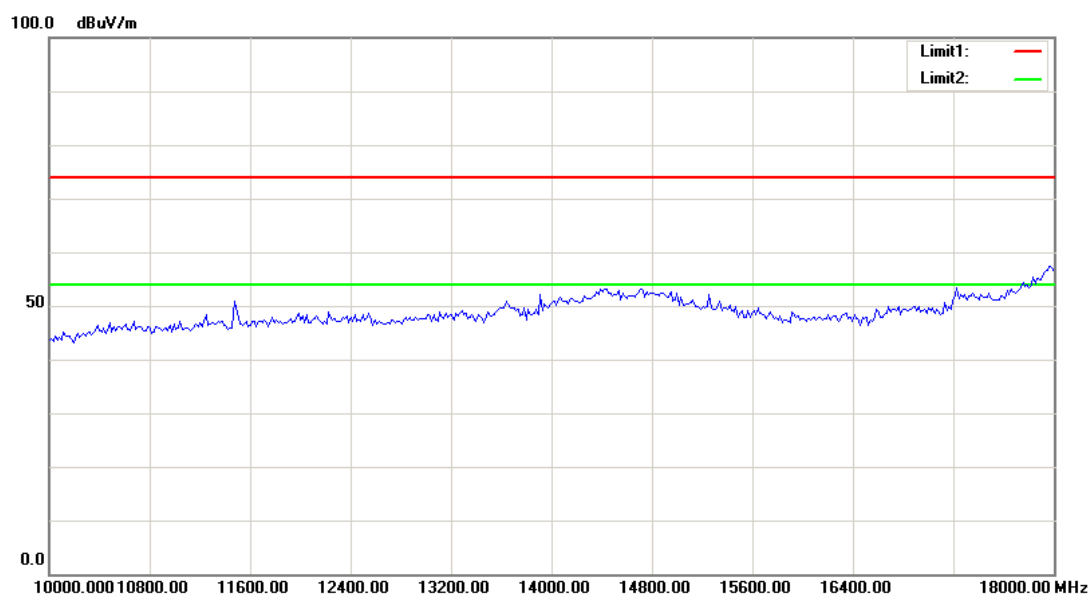
Note: No emission was detected in the range 18-40GHz.

High Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5827.650	72.01	peak	31.96	103.97	N/A	N/A	150	168	Fundamental
2	5827.650	61.38	AVG	31.96	93.34	N/A	N/A	150	168	Fundamental
3	5850.000	31.89	peak	31.99	63.88	122.20	58.32	150	168	
4	5855.000	28.71	peak	31.99	60.70	110.80	50.10	150	168	
5	5875.000	25.96	peak	32.02	57.98	105.20	47.22	150	168	
6	5925.000	26.23	peak	32.07	58.30	68.20	9.90	150	168	

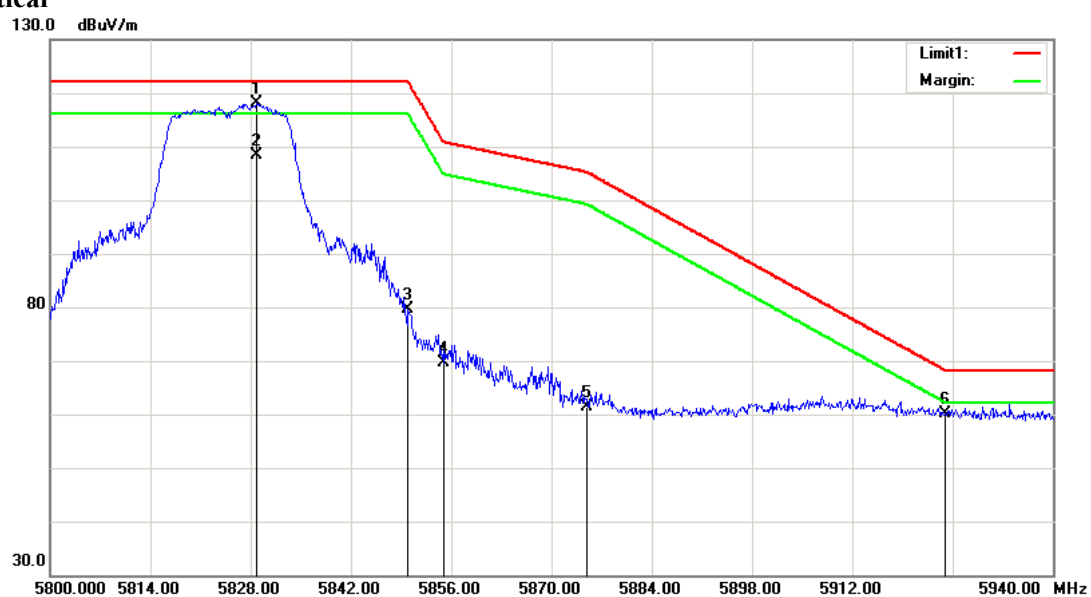


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8034.068	44.88	peak	-1.12	43.76	74.00	30.24	158	89	
2	8034.068	34.26	AVG	-1.12	33.14	54.00	20.86	158	89	

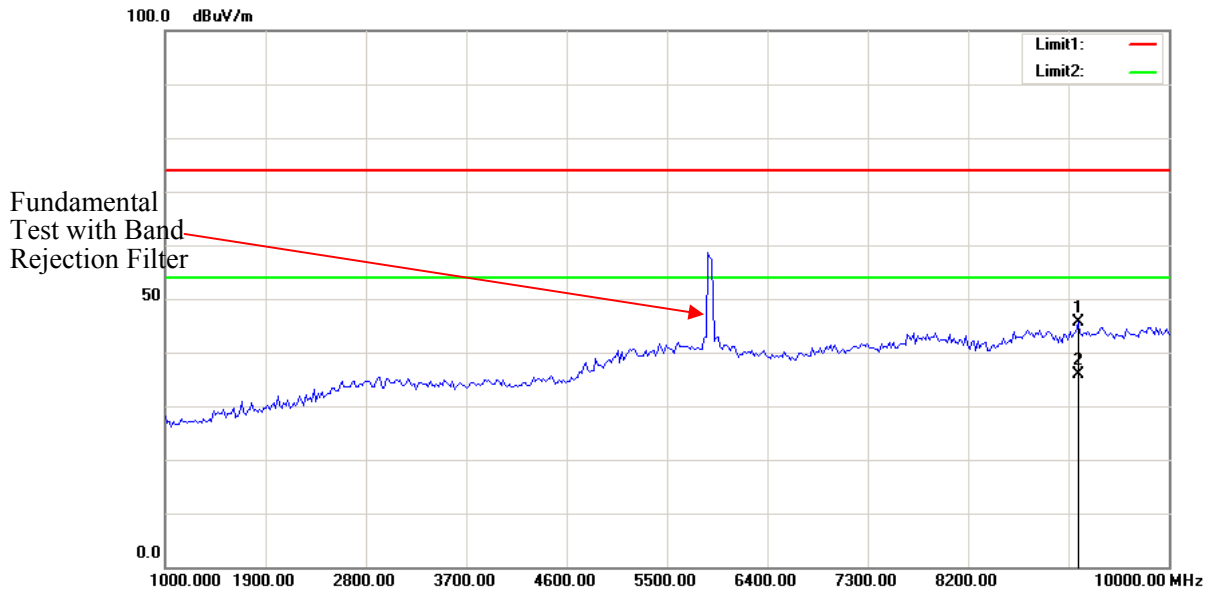


Note: No emission was detected in the range 18-40GHz.

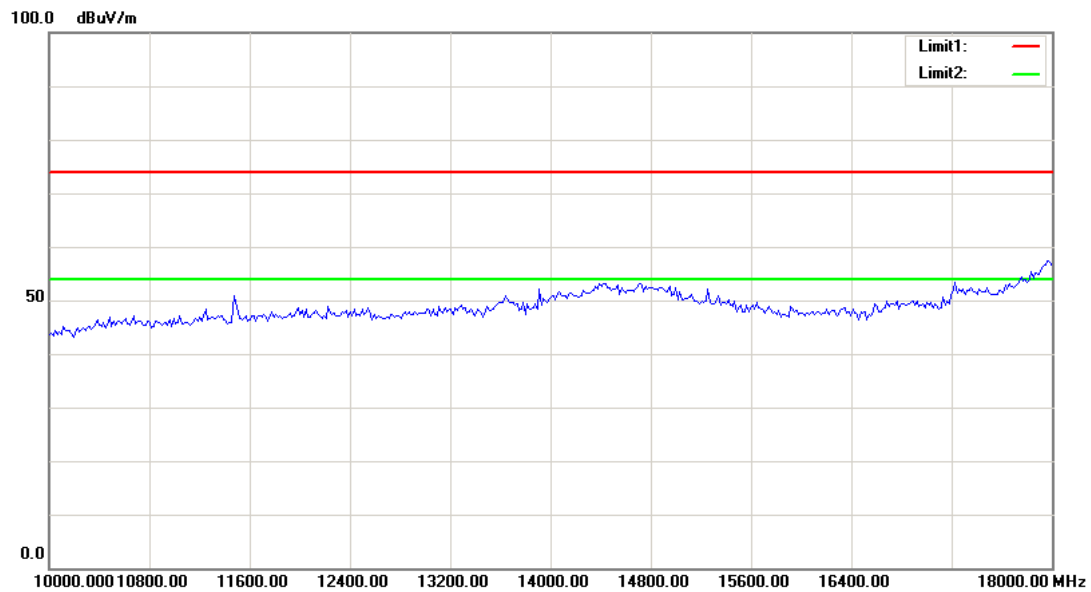
Vertical



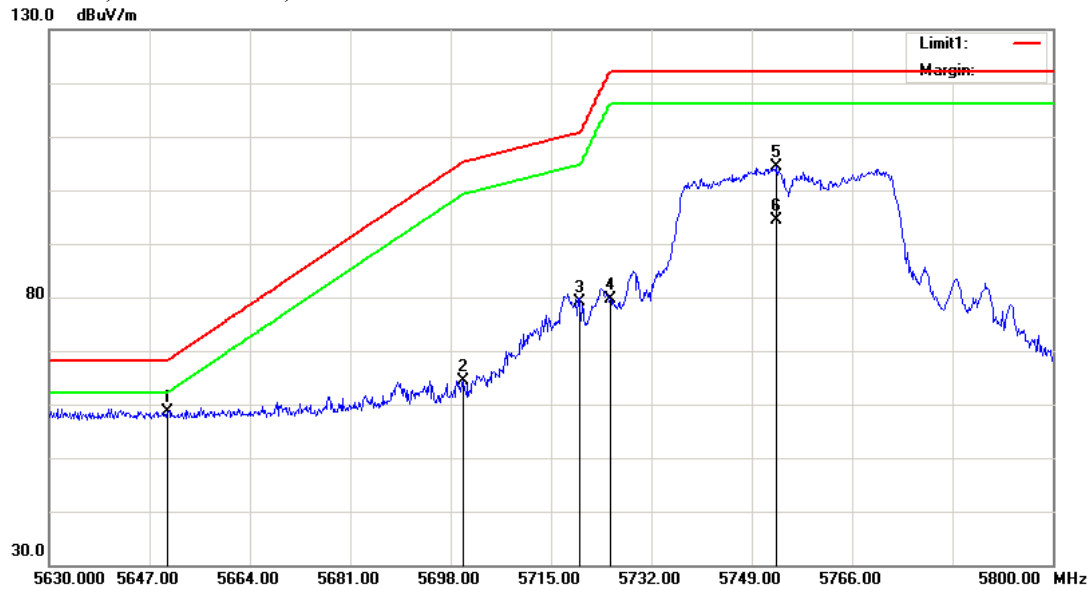
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5828.910	86.07	peak	31.96	118.03	N/A	N/A	170	50	Fundamental
2	5828.910	76.32	AVG	31.96	108.28	N/A	N/A	170	50	Fundamental
3	5850.000	47.56	peak	31.99	79.55	122.20	42.65	170	50	
4	5855.000	37.75	peak	31.99	69.74	110.80	41.06	170	50	
5	5875.000	29.25	peak	32.02	61.27	105.20	43.93	170	50	
6	5925.000	27.98	peak	32.07	60.05	68.20	8.15	170	50	



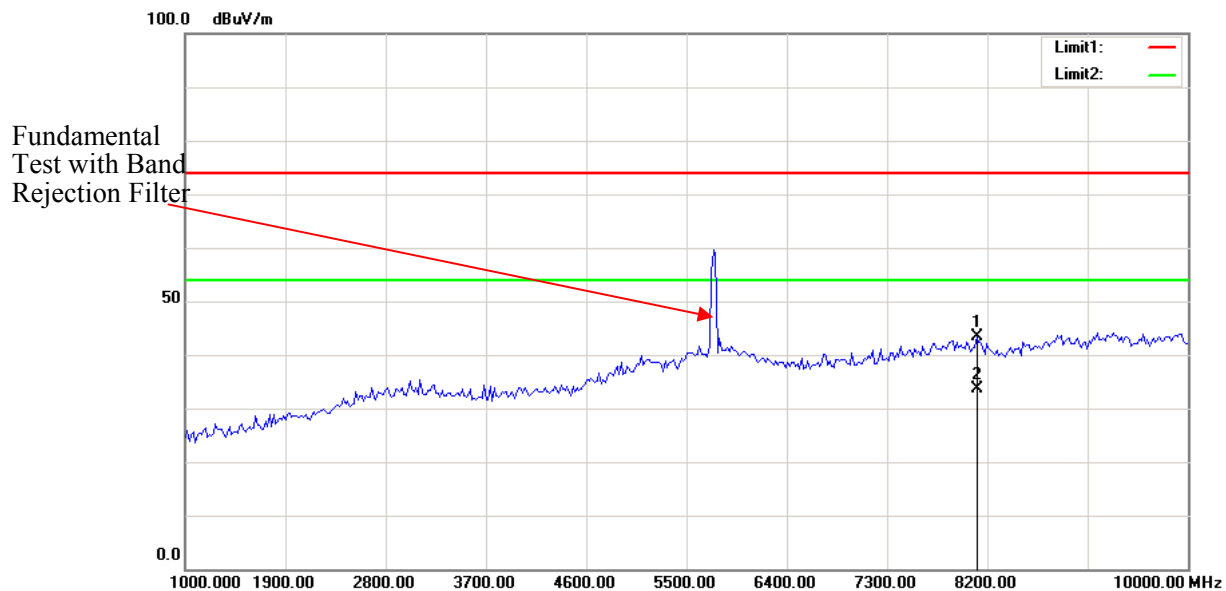
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	9188.377	45.01	peak	0.55	45.56	74.00	28.44	166	89	
2	9188.377	35.40	AVG	0.55	35.95	54.00	18.05	166	89	



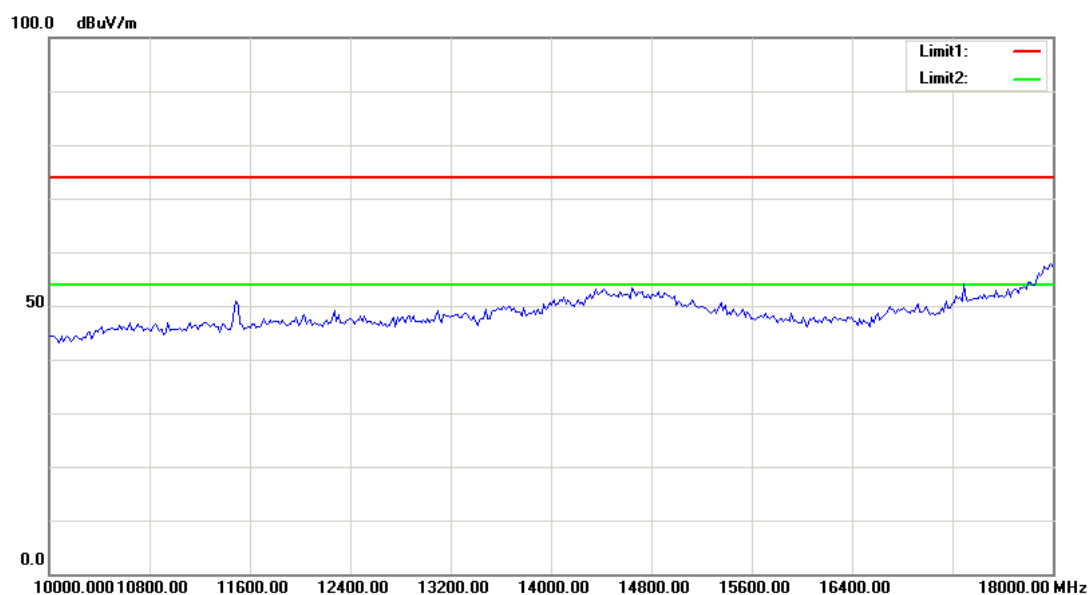
Note: No emission was detected in the range 18-40GHz.

802.11n ht40, Low Channel, Horizontal

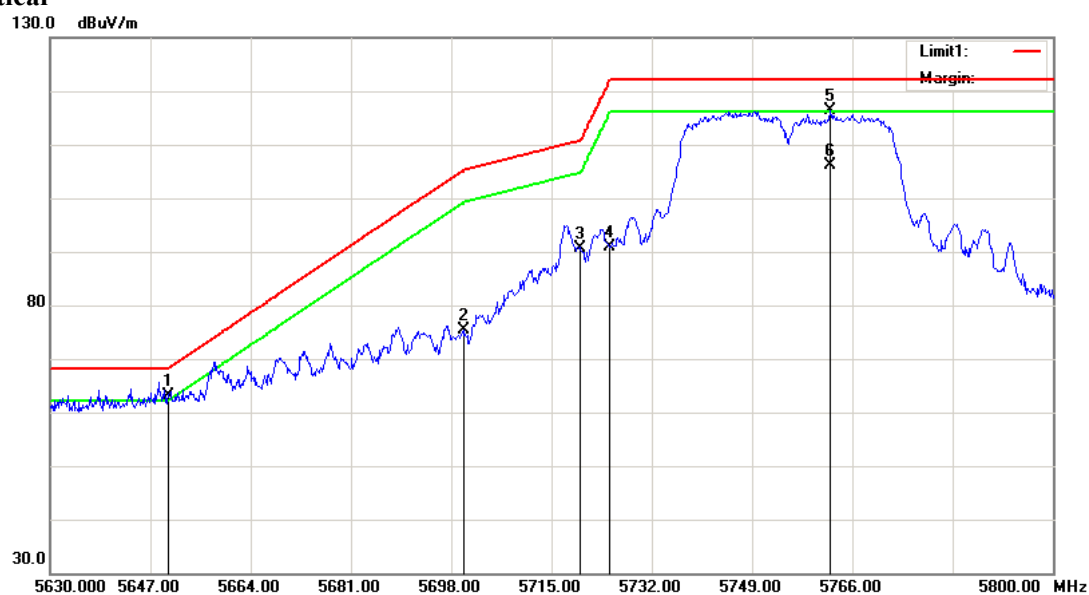
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	26.80	peak	31.79	58.59	68.20	9.61	160	60	
2	5700.000	32.57	peak	31.86	64.43	105.20	40.77	160	60	
3	5720.000	47.27	peak	31.88	79.15	110.80	31.65	160	60	
4	5725.000	47.77	peak	31.88	79.65	122.20	42.55	160	60	
5	5753.250	72.52	peak	31.90	104.42	N/A	N/A	160	60	Fundamental
6	5753.250	62.36	AVG	31.90	94.26	N/A	N/A	160	60	Fundamental



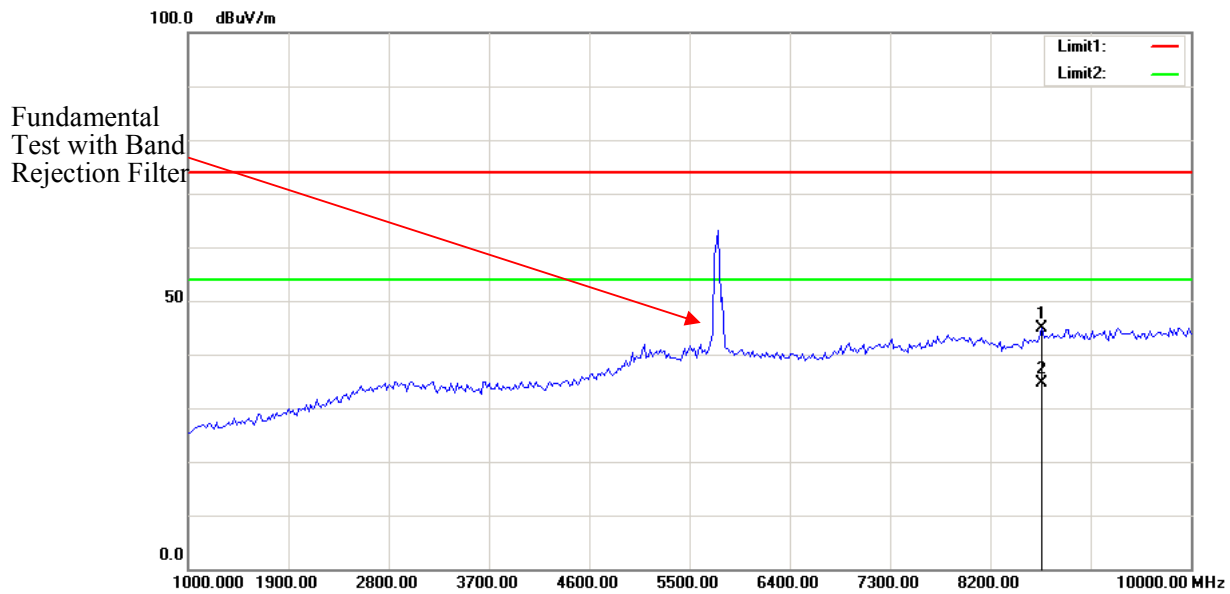
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8106.212	44.44	peak	-1.02	43.42	74.00	30.58	162	49	
2	8106.212	34.61	AVG	-1.02	33.59	54.00	20.41	162	49	



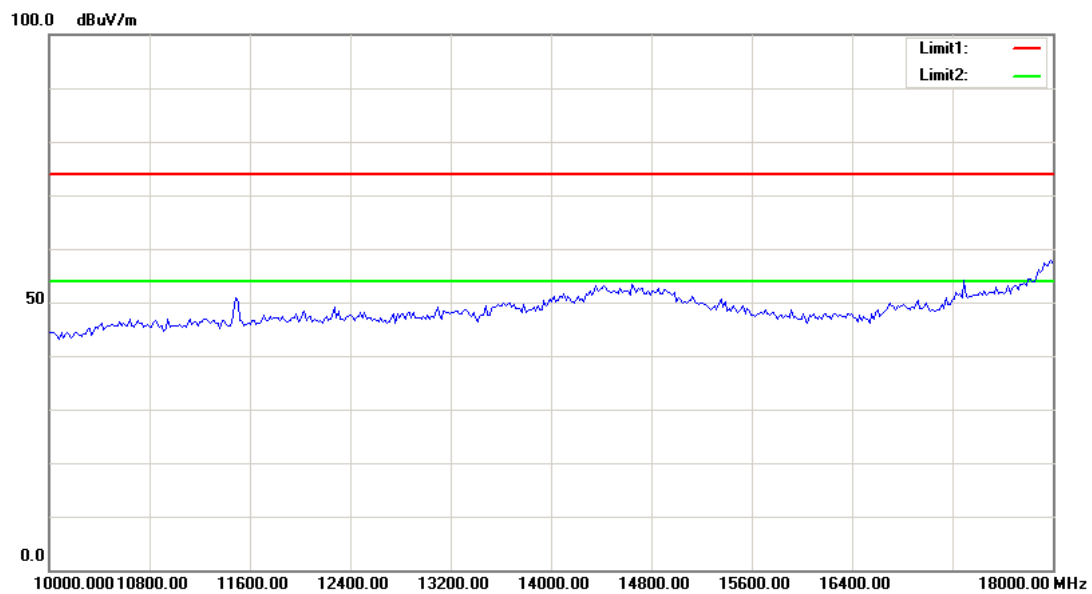
Vertical



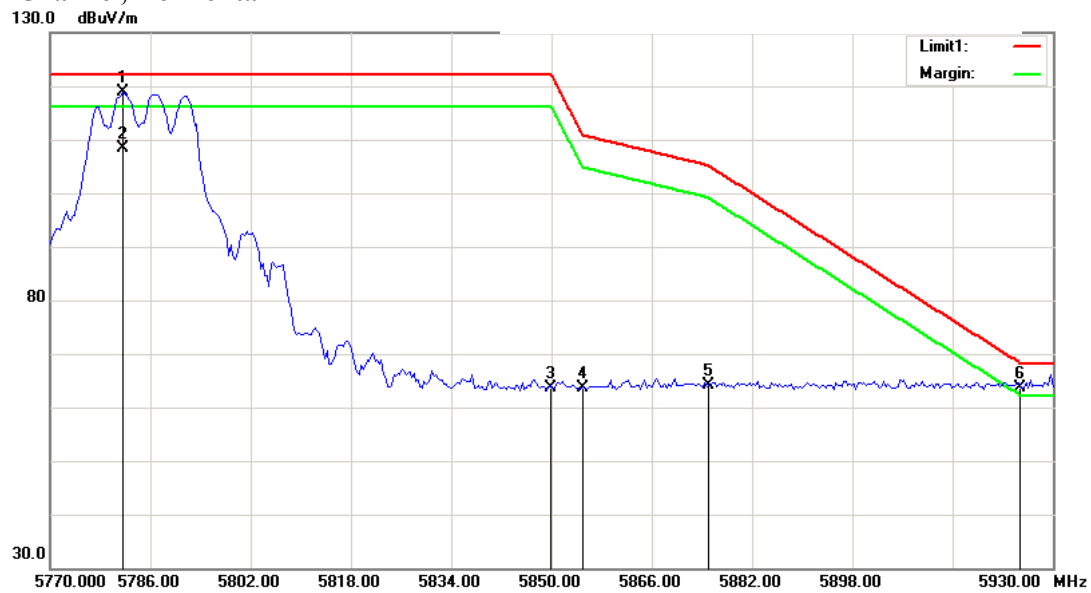
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	31.38	peak	31.79	63.17	68.20	5.03	155	60	
2	5700.000	43.41	peak	31.86	75.27	105.20	29.93	155	60	
3	5720.000	58.76	peak	31.88	90.64	110.80	20.16	155	60	
4	5725.000	59.06	peak	31.88	90.94	122.20	31.26	155	60	
5	5762.260	84.46	peak	31.90	116.36	N/A	N/A	155	60	Fundamental
6	5762.260	74.31	AVG	31.90	106.21	N/A	N/A	155	60	Fundamental



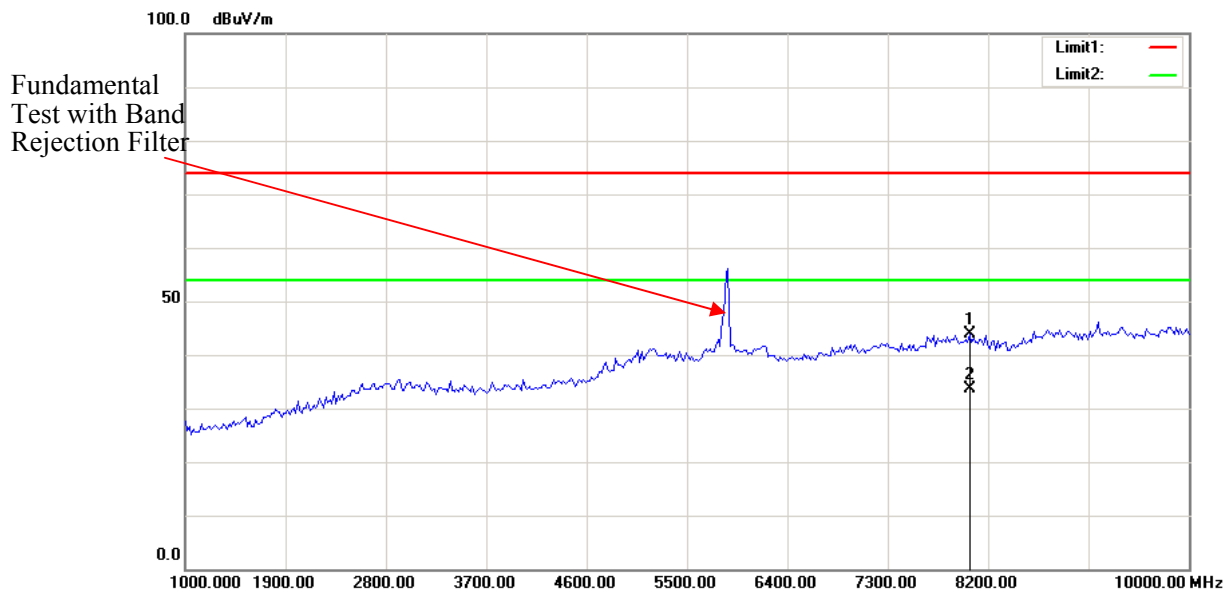
No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8665.331	45.06	peak	-0.28	44.78	74.00	29.22	160	78	
2	8665.331	34.84	AVG	-0.28	34.56	54.00	19.44	160	78	



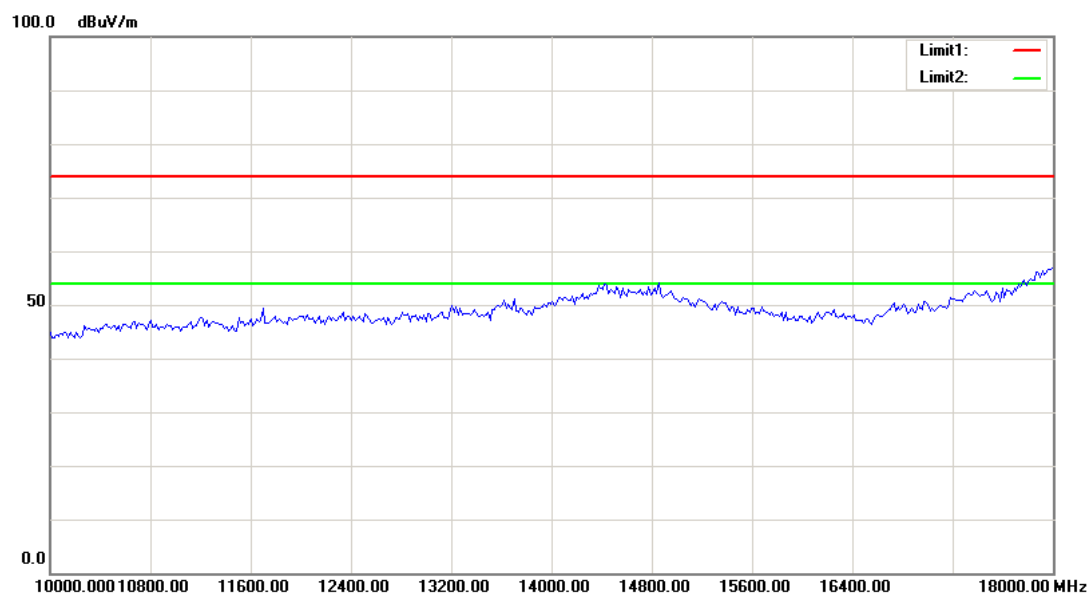
Note: No emission was detected in the range 18-40GHz.

High Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5781.543	86.86	peak	31.91	118.77	N/A	N/A	136	224	Fundamental
2	5781.543	76.59	AVG	31.91	108.50	N/A	N/A	136	224	Fundamental
3	5850.000	31.60	peak	31.99	63.59	122.20	58.61	136	224	
4	5855.000	31.66	peak	31.99	63.65	110.80	47.15	136	224	
5	5875.000	32.12	peak	32.02	64.14	105.20	41.06	136	224	
6	5925.000	31.67	peak	32.07	63.74	68.20	4.46	136	224	

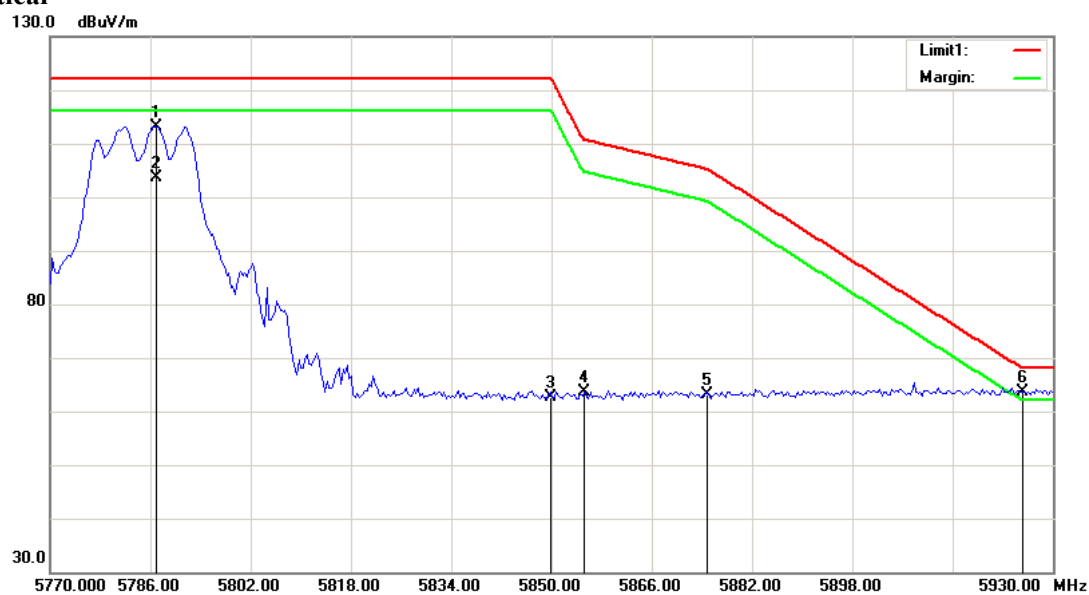


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8034.068	44.88	peak	-1.12	43.76	74.00	30.24	155	88	
2	8034.068	34.81	AVG	-1.12	33.69	54.00	20.31	155	88	

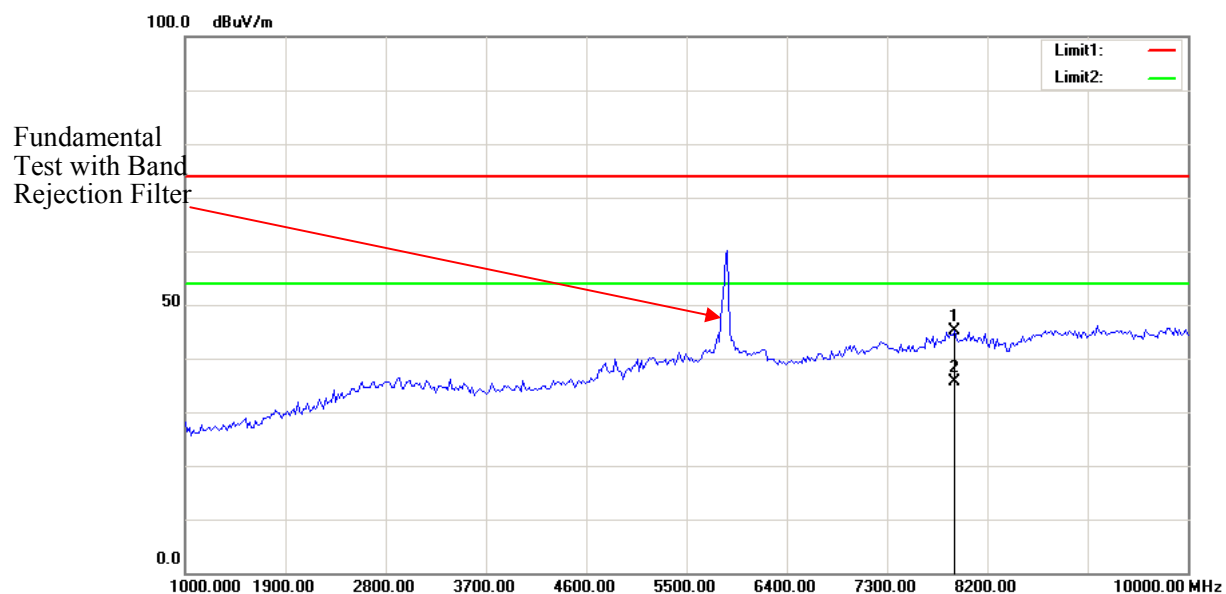


Note: No emission was detected in the range 18-40GHz.

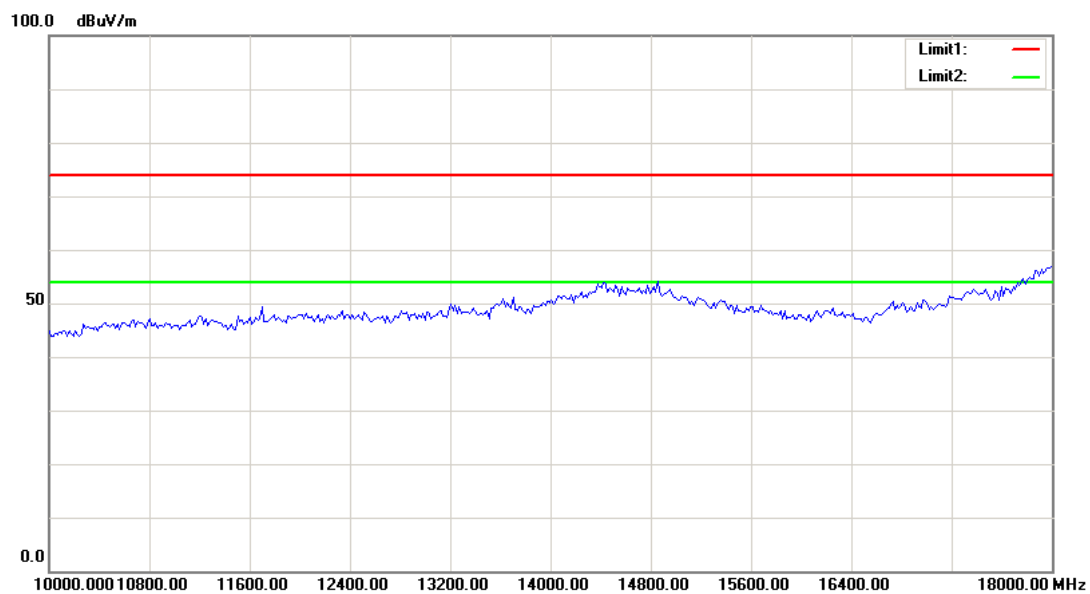
Vertical



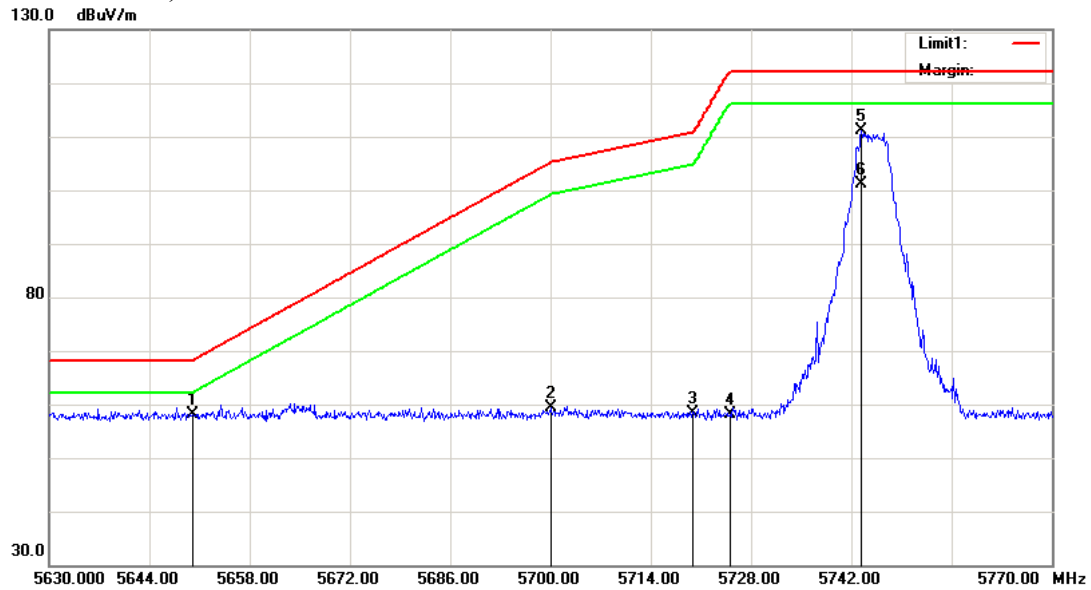
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5786.994	81.24	peak	31.92	113.16	N/A	N/A	159	88	Fundamental
2	5786.994	71.66	AVG	31.92	103.58	N/A	N/A	159	88	Fundamental
3	5850.000	30.56	peak	31.99	62.55	122.20	59.65	159	88	
4	5855.000	31.59	peak	31.99	63.58	110.80	47.22	159	88	
5	5875.000	31.09	peak	32.02	63.11	105.20	42.09	159	88	
6	5925.000	31.57	peak	32.07	63.64	68.20	4.56	159	88	



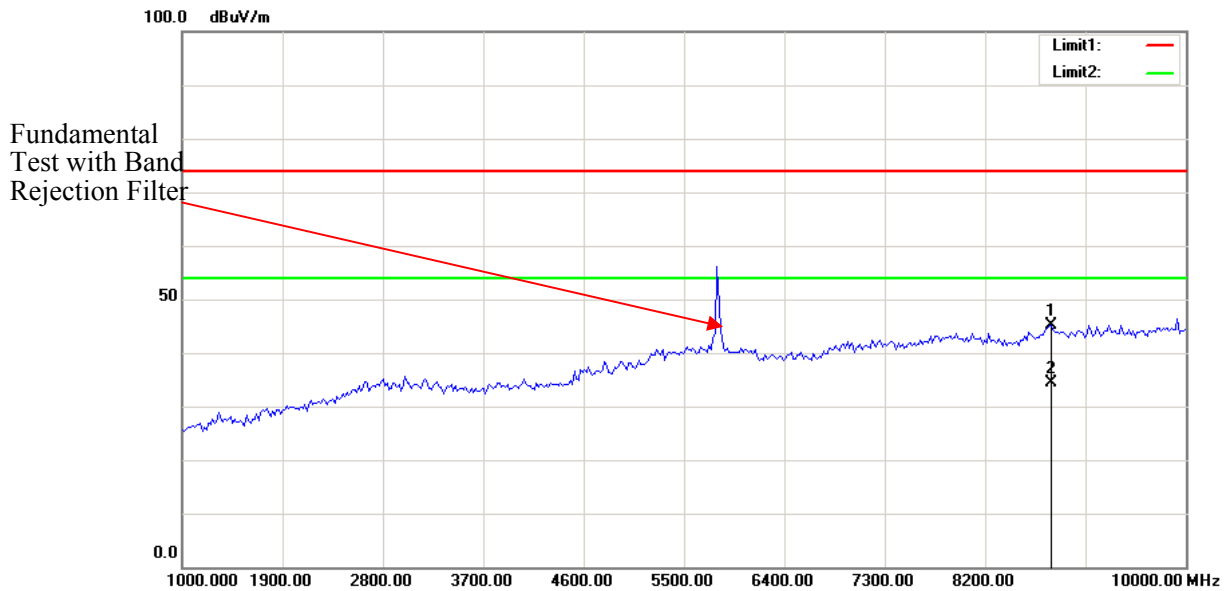
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7907.815	46.48	peak	-1.46	45.02	74.00	28.98	159	66	
2	7907.815	37.10	AVG	-1.46	35.64	54.00	18.36	159	66	



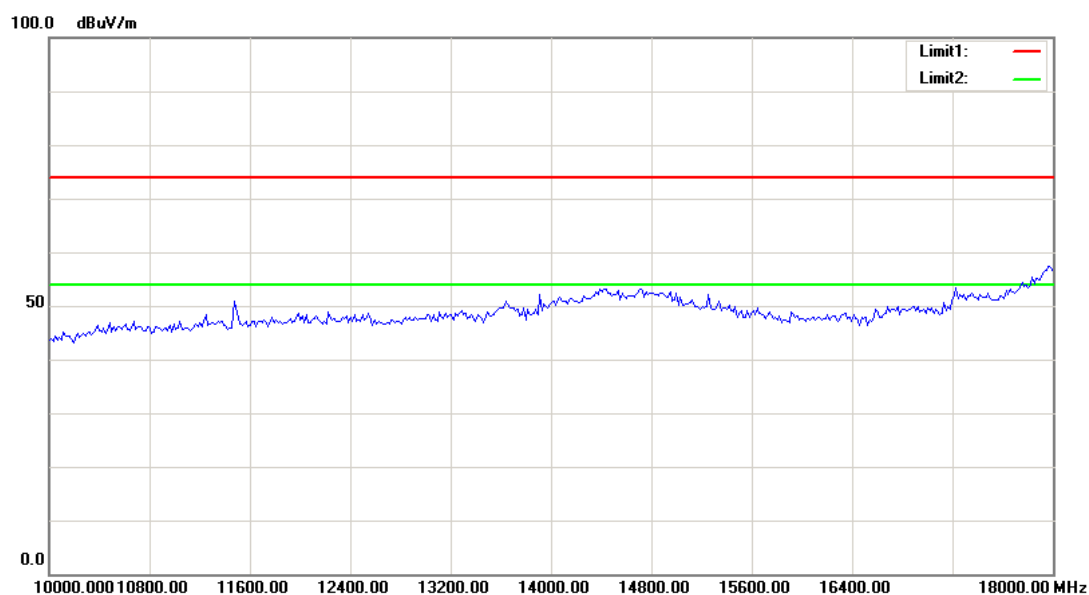
Note: No emission was detected in the range 18-40GHz.

5M, Low Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	26.26	peak	31.79	58.05	68.20	10.15	159	89	
2	5700.000	27.56	peak	31.86	59.42	105.20	45.78	159	89	
3	5720.000	26.46	peak	31.88	58.34	110.80	52.46	159	89	
4	5725.000	26.29	peak	31.88	58.17	122.20	64.03	159	89	
5	5743.470	79.31	peak	31.89	111.20	N/A	N/A	159	89	Fundamental
6	5743.470	69.23	AVG	31.89	101.12	N/A	N/A	159	89	Fundamental

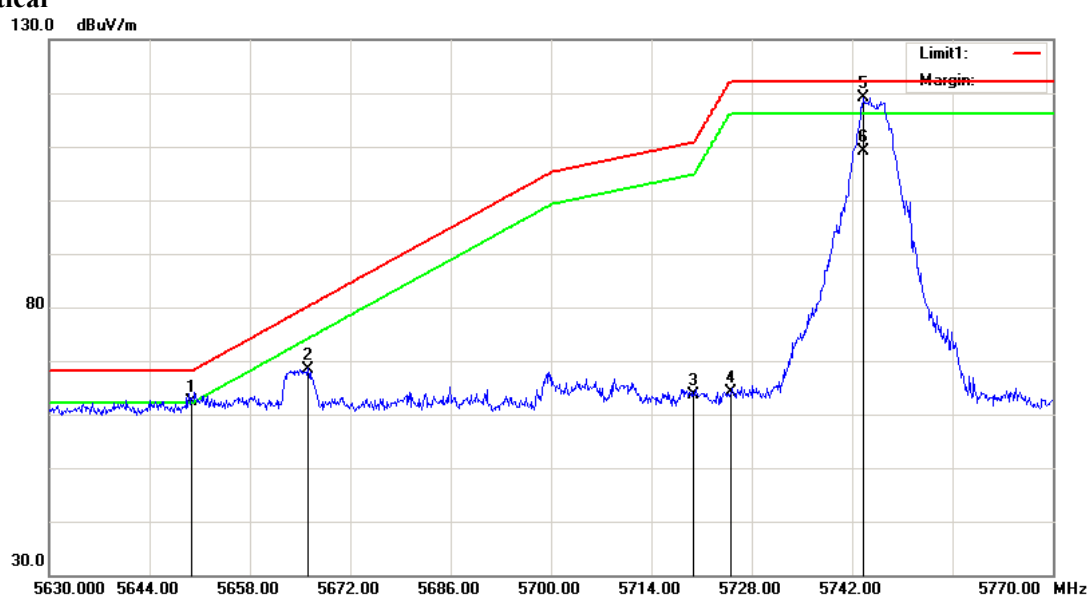


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8791.583	45.10	peak	-0.08	45.02	74.00	28.98	175	48	
2	8791.583	34.56	AVG	-0.08	34.48	54.00	19.52	175	48	

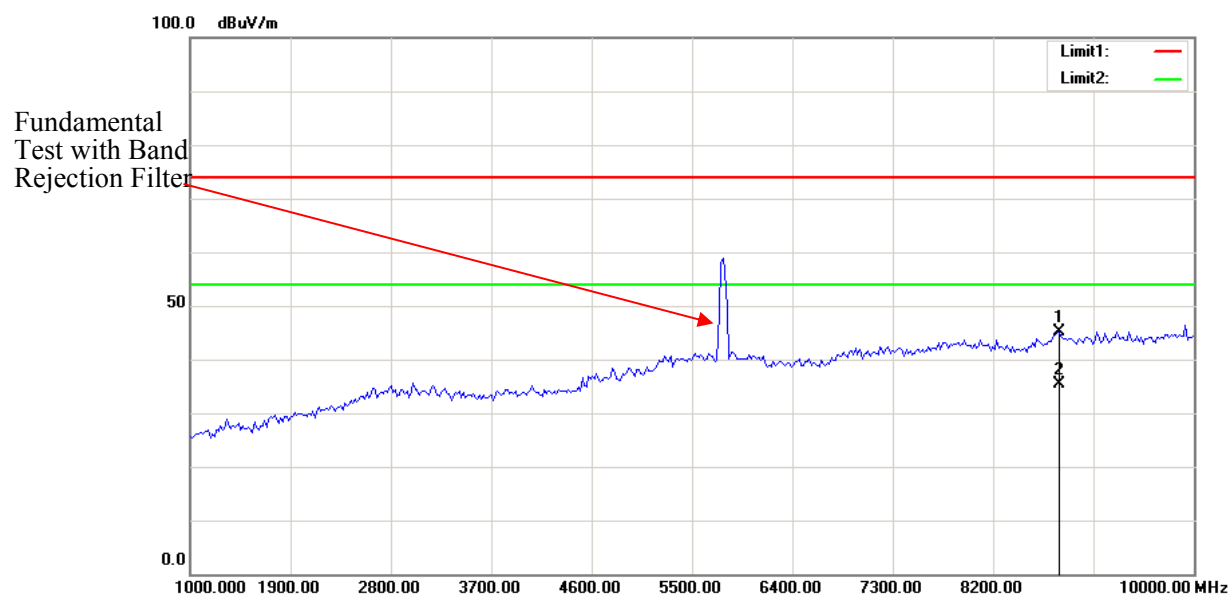


Note: No emission was detected in the range 18-40GHz.

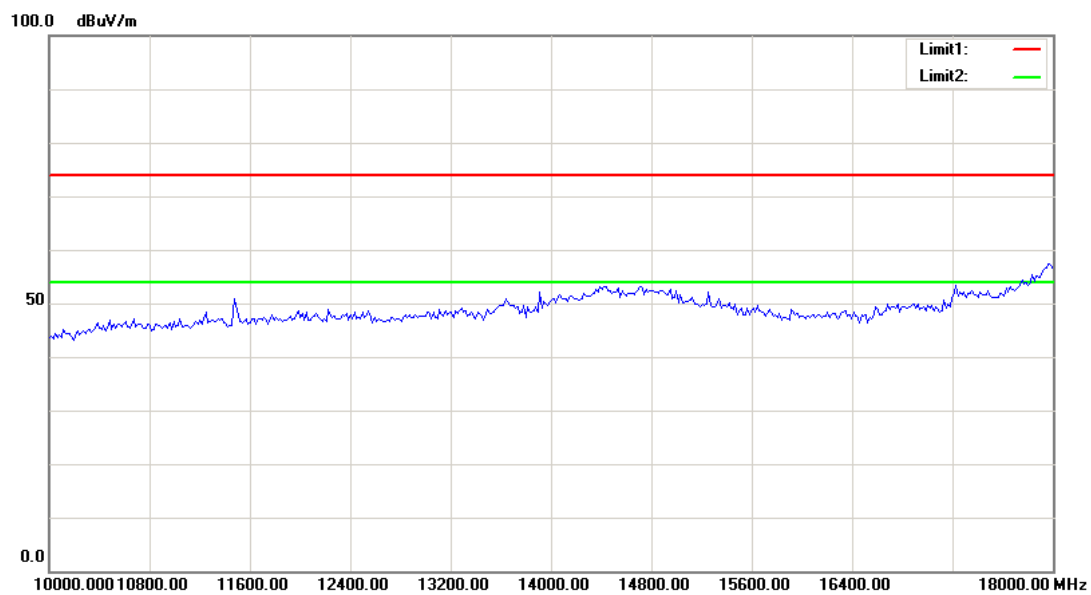
Vertical



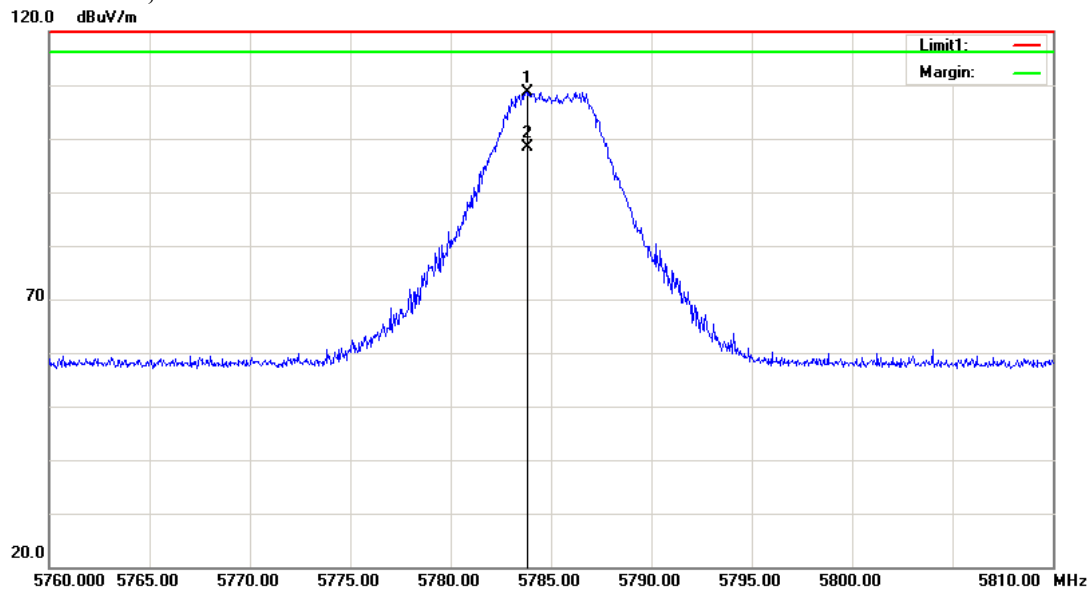
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	30.62	peak	31.79	62.41	68.20	5.79	170	90	
2	5666.190	36.69	AVG	31.81	68.50	80.22	11.72	170	90	
3	5720.000	31.65	peak	31.88	63.53	110.80	47.27	170	90	
4	5725.000	32.17	AVG	31.88	64.05	122.20	58.15	170	90	
5	5743.610	87.25	peak	31.89	119.14	N/A	N/A	170	90	Fundamental
6	5743.610	77.25	AVG	31.89	109.14	N/A	N/A	170	90	Fundamental



No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8791.583	45.10	peak	-0.08	45.02	74.00	28.98	175	48	
2	8791.583	35.34	AVG	-0.08	35.26	54.00	18.74	175	48	

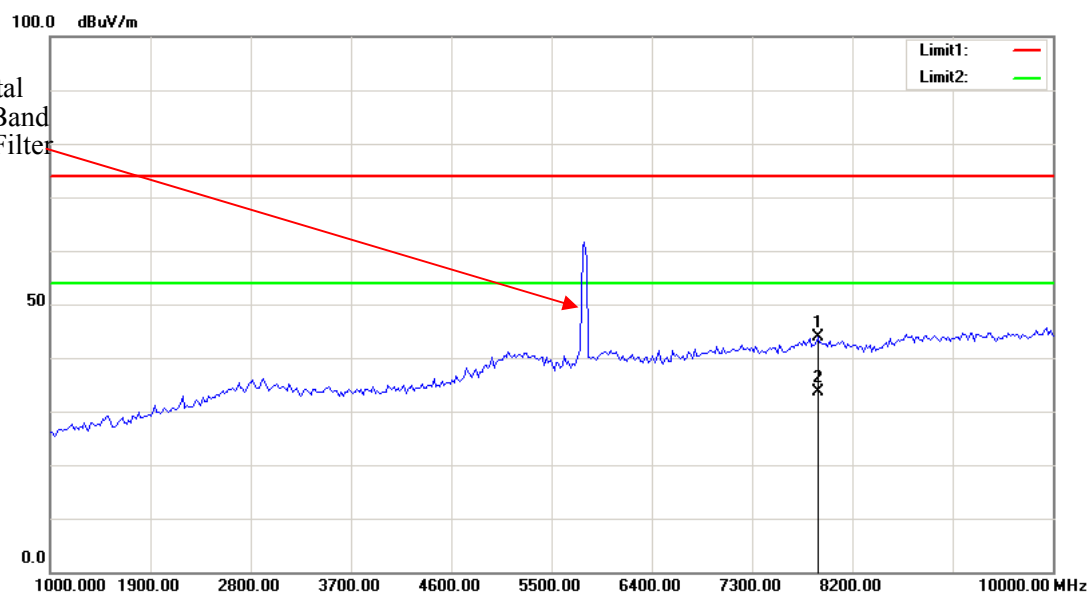


Note: No emission was detected in the range 18-40GHz.

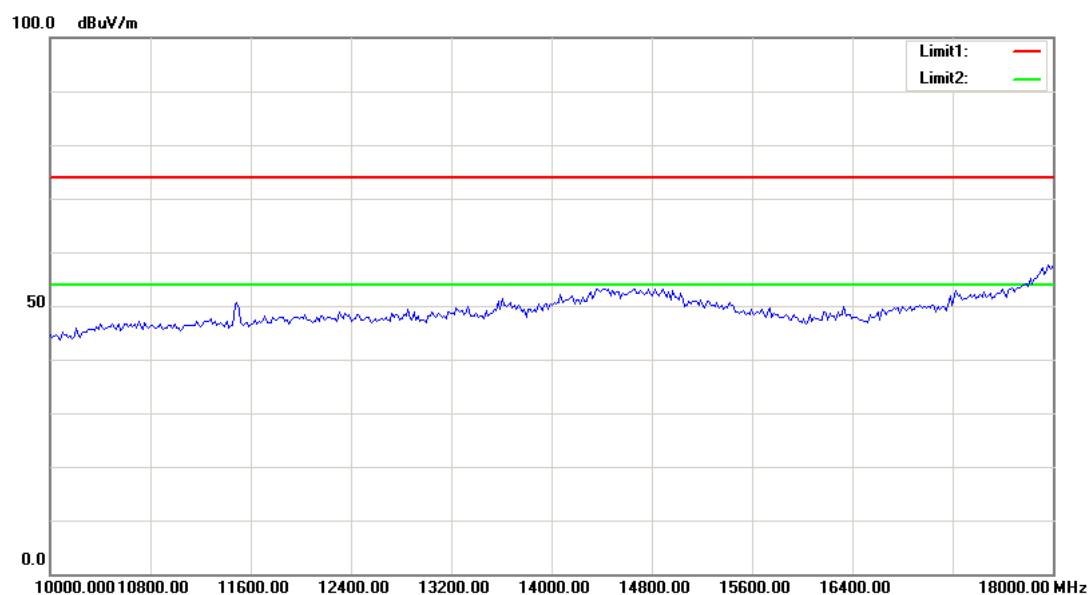
Middle Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5783.800	76.75	peak	31.92	108.67	N/A	N/A	168	150	Fundamental
2	5783.800	66.54	AVG	31.92	98.46	N/A	N/A	168	150	Fundamental

Fundamental
Test with Band
Rejection Filter

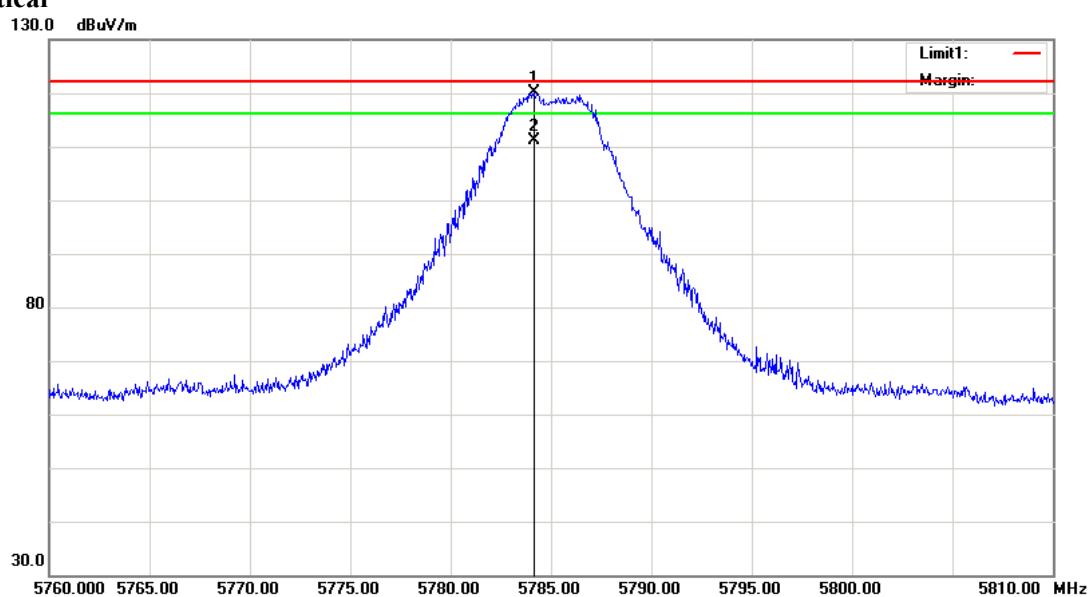


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7889.779	45.40	peak	-1.52	43.88	74.00	30.12	154	100	
2	7889.779	35.09	AVG	-1.52	33.57	54.00	20.43	154	100	

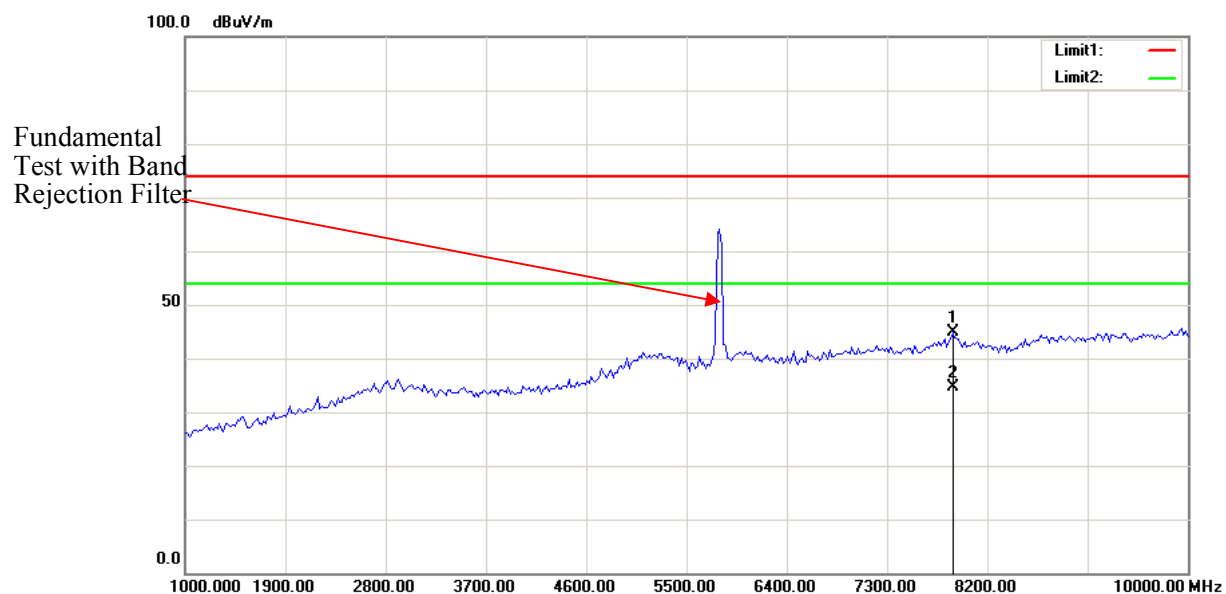


Note: No emission was detected in the range 18-40GHz.

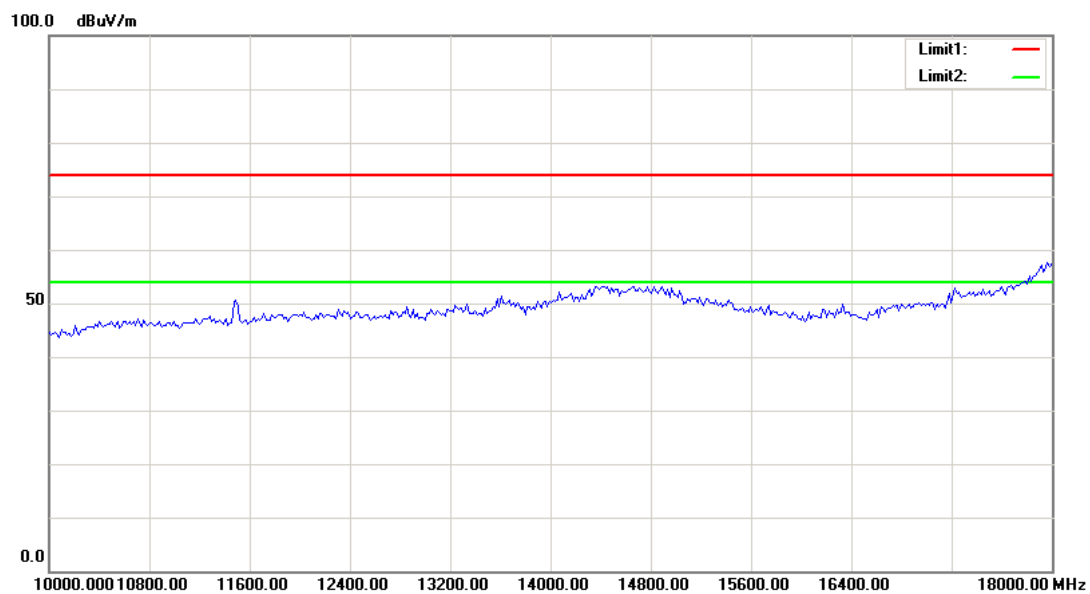
Vertical



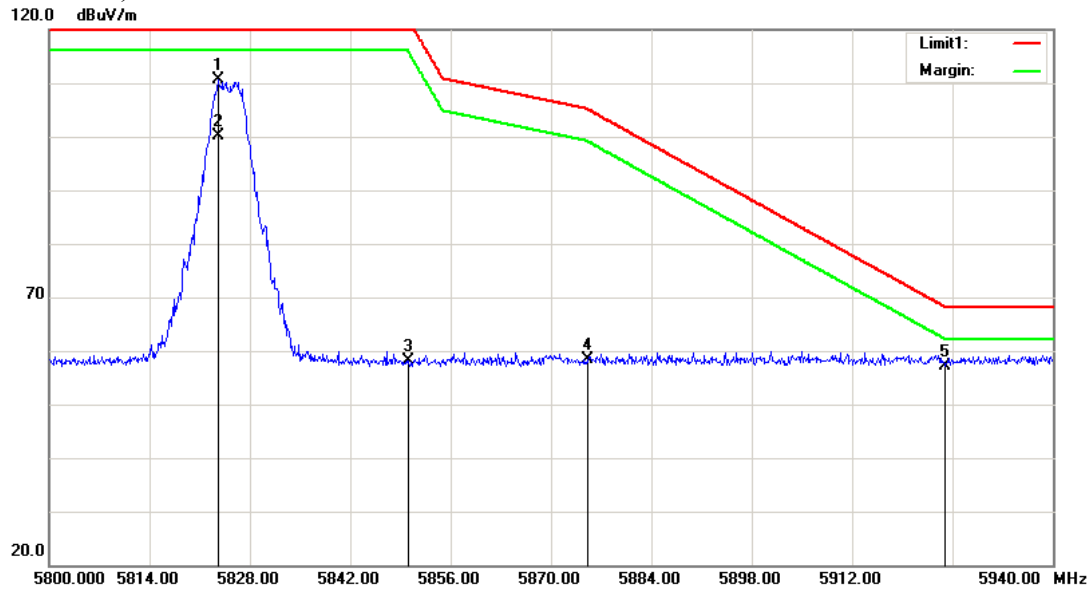
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5784.150	88.19	peak	31.92	120.11	N/A	N/A	150	99	Fundamental
2	5784.150	79.09	AVG	31.92	111.01	N/A	N/A	150	99	Fundamental



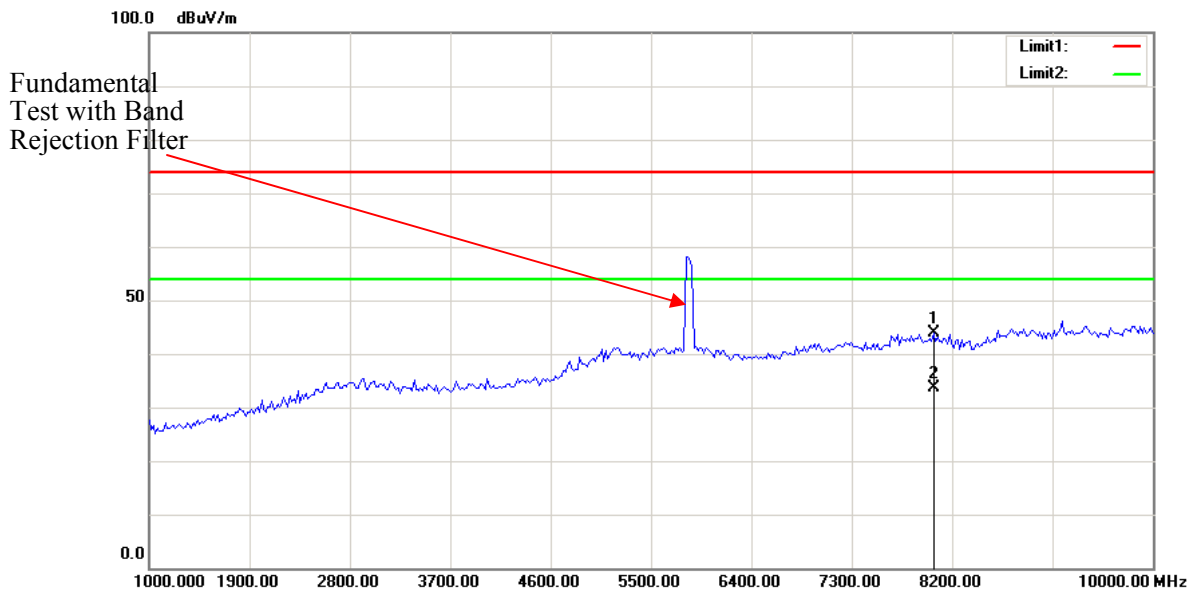
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7889.779	46.40	peak	-1.52	44.88	74.00	29.12	144	160	
2	7889.779	36.08	AVG	-1.52	34.56	54.00	19.44	144	160	



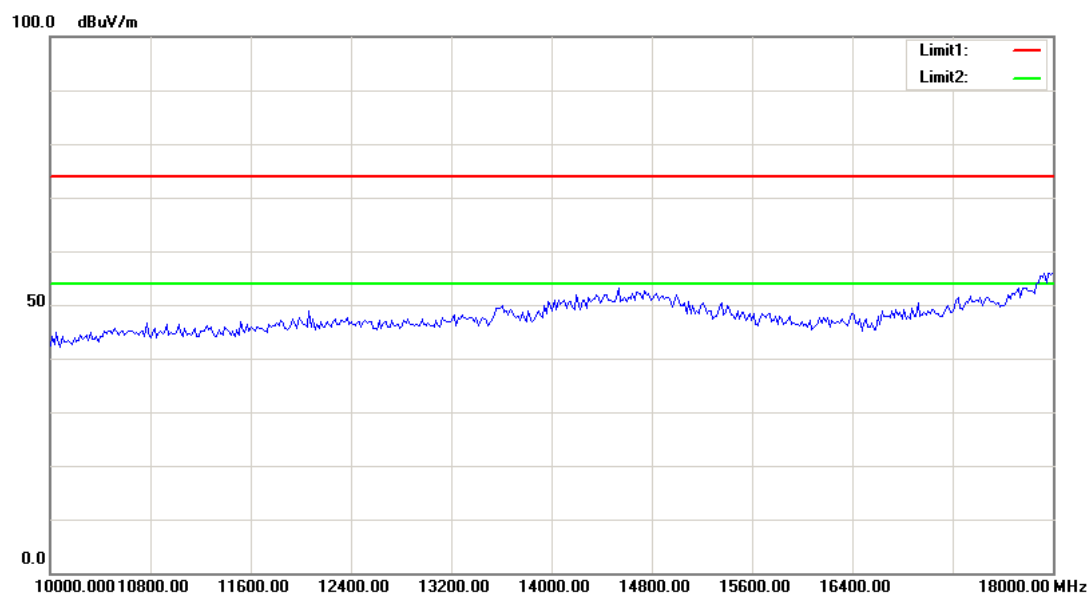
Note: No emission was detected in the range 18-40GHz.

High Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5823.520	78.78	peak	31.96	110.74	N/A	N/A	159	87	Fundamental
2	5823.520	68.29	AVG	31.96	100.25	N/A	N/A	159	87	Fundamental
3	5850.000	26.13	peak	31.99	58.12	122.20	64.08	159	87	
4	5875.000	26.48	peak	32.02	58.50	105.20	46.70	159	87	
5	5925.000	25.12	peak	32.07	57.19	68.20	11.01	159	87	

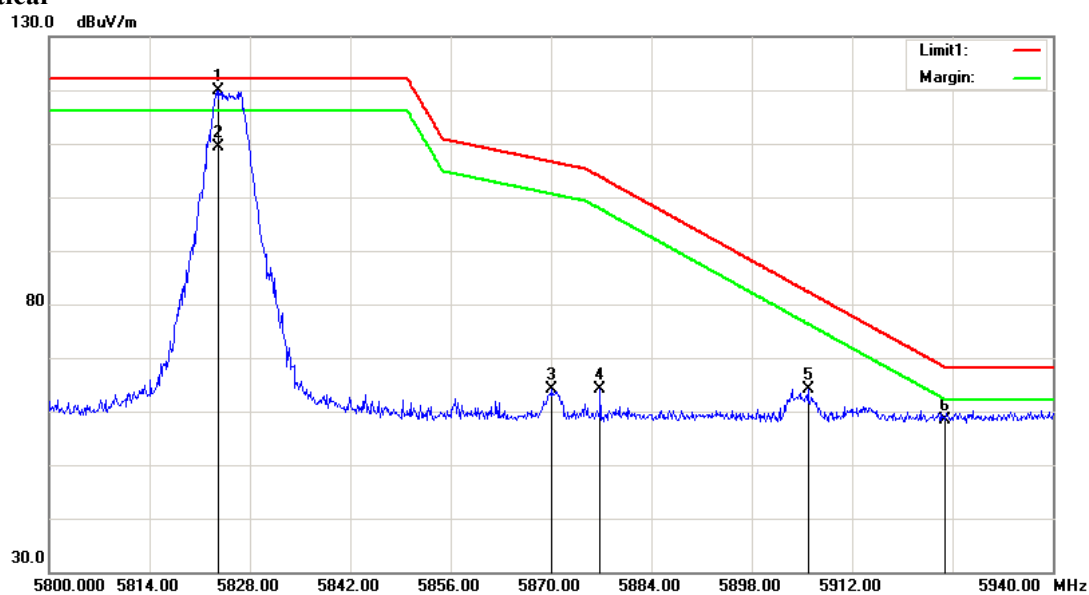


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8034.068	44.88	peak	-1.12	43.76	74.00	30.24	144	155	
2	8034.068	34.68	AVG	-1.12	33.56	54.00	20.44	144	155	

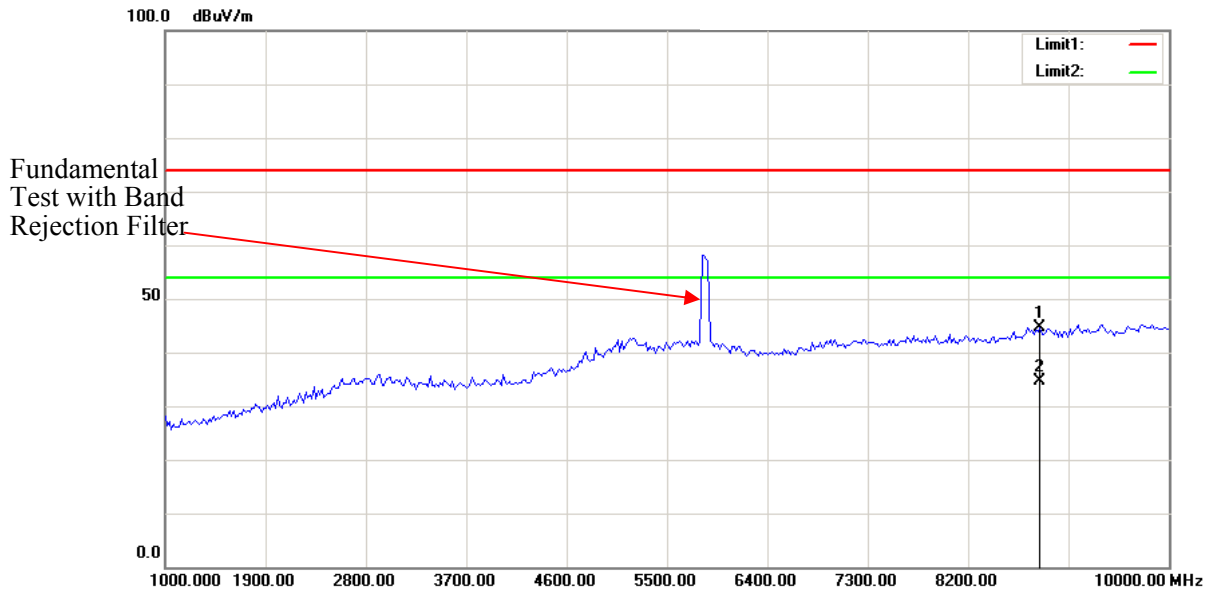


Note: No emission was detected in the range 18-40GHz.

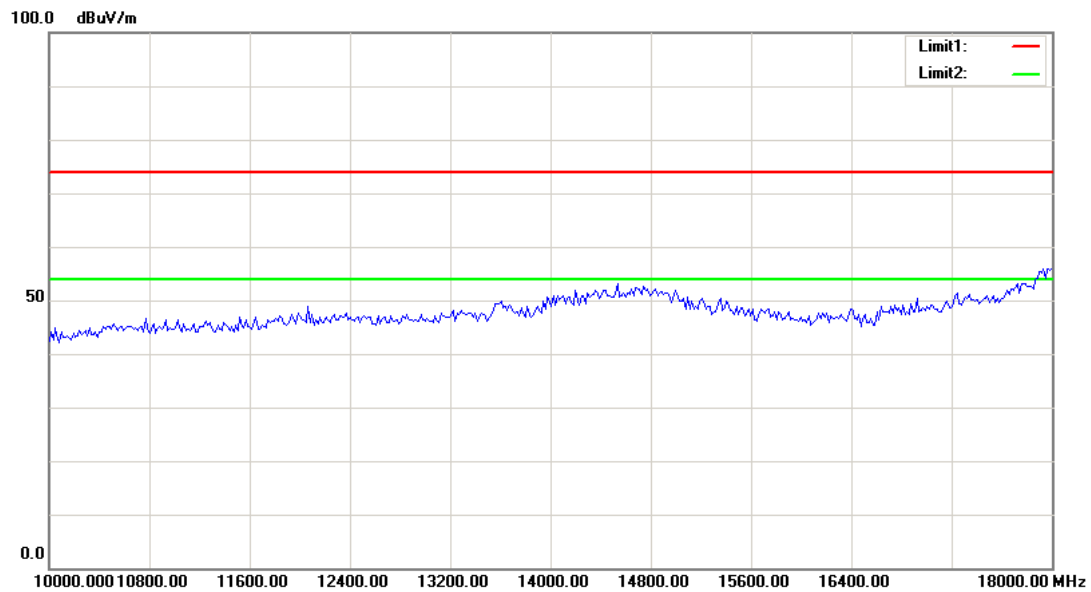
Vertical



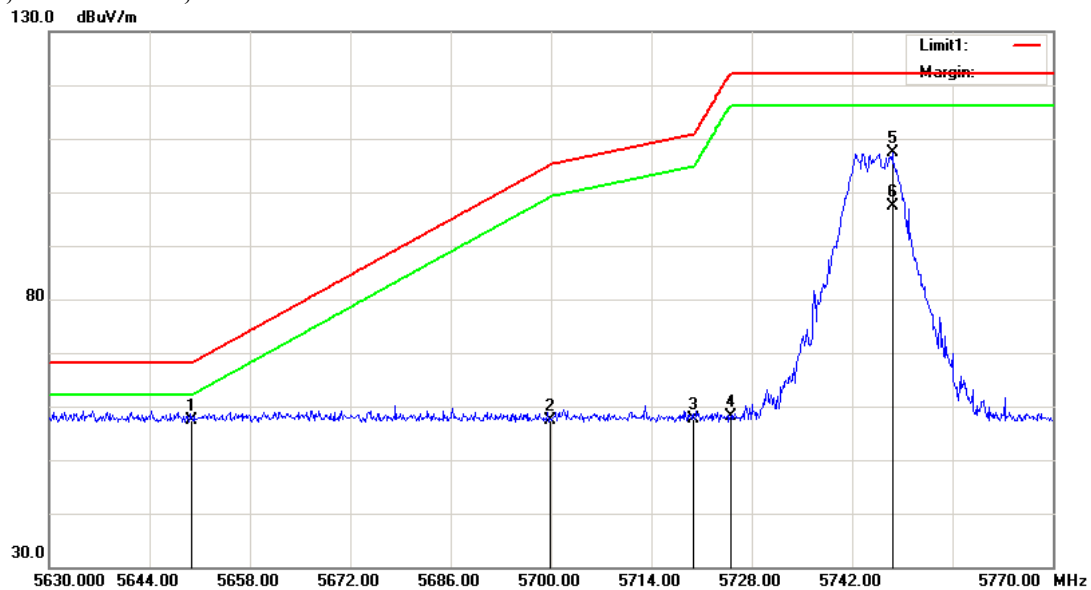
No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5823.660	87.94	peak	31.96	119.90	N/A	N/A	160	140	Fundamental
2	5823.660	77.39	AVG	31.96	109.35	N/A	N/A	160	140	Fundamental
3	5870.210	32.20	peak	32.02	64.22	106.54	42.32	160	140	
4	5876.860	31.99	peak	32.02	64.01	103.82	39.81	160	140	
5	5905.910	32.15	peak	32.05	64.20	82.29	18.09	160	140	
6	5925.000	26.32	peak	32.07	58.39	68.20	9.81	160	140	



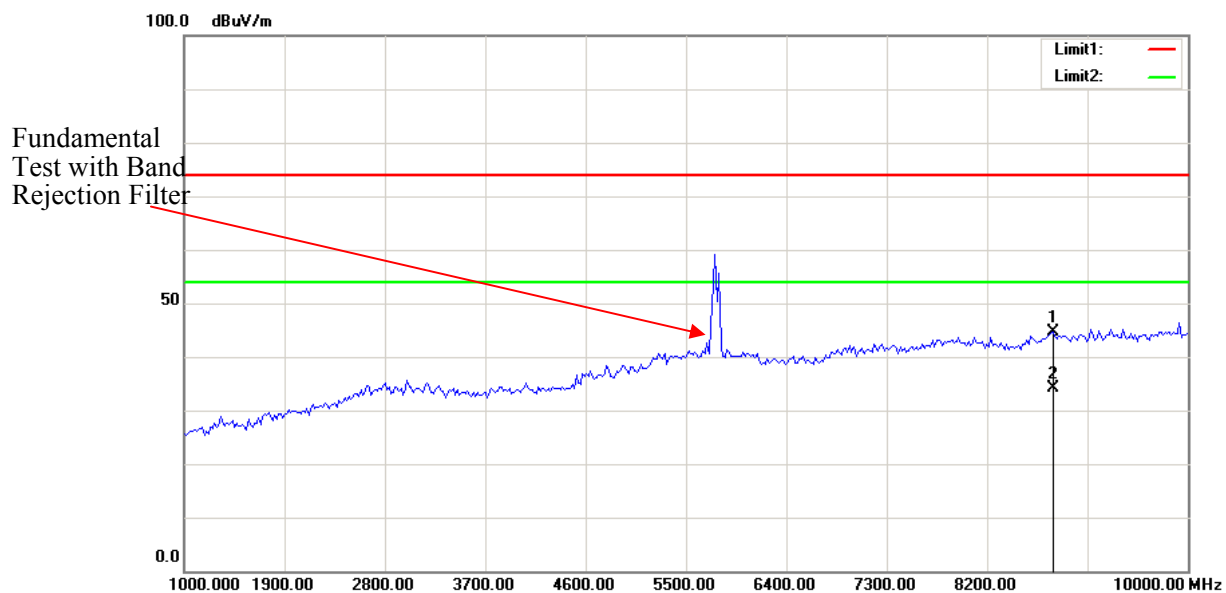
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8845.691	44.63	peak	0.01	44.64	74.00	29.36	177	182	
2	8845.691	34.54	AVG	0.01	34.55	54.00	19.45	177	182	



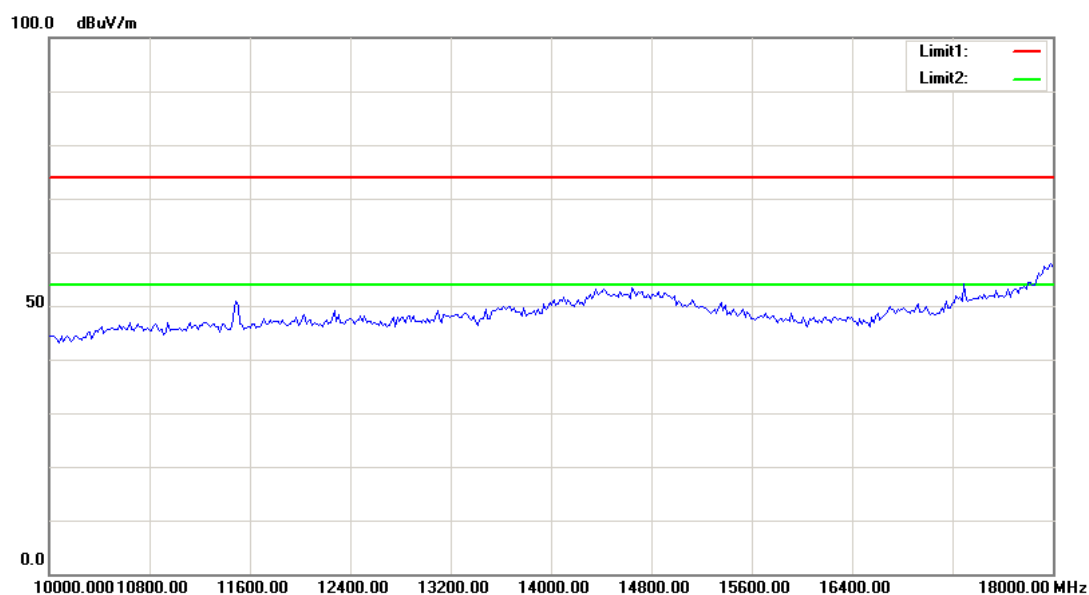
Note: No emission was detected in the range 18-40GHz.

10M, Low Channel, Horizontal

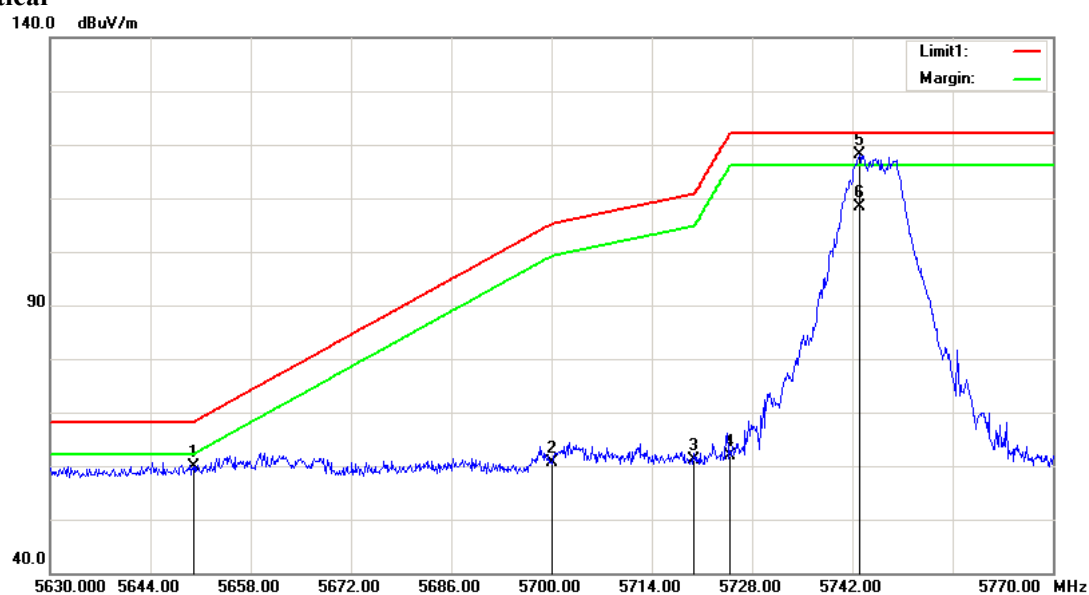
No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	25.47	peak	31.79	57.26	68.20	10.94	160	88	
2	5700.000	25.46	peak	31.86	57.32	105.20	47.88	160	88	
3	5720.000	25.86	peak	31.88	57.74	110.80	53.06	160	88	
4	5725.000	26.16	peak	31.88	58.04	122.20	64.16	160	88	
5	5747.670	75.49	peak	31.89	107.38	N/A	N/A	160	88	Fundamental
6	5747.670	65.57	AVG	31.89	97.46	N/A	N/A	160	88	Fundamental



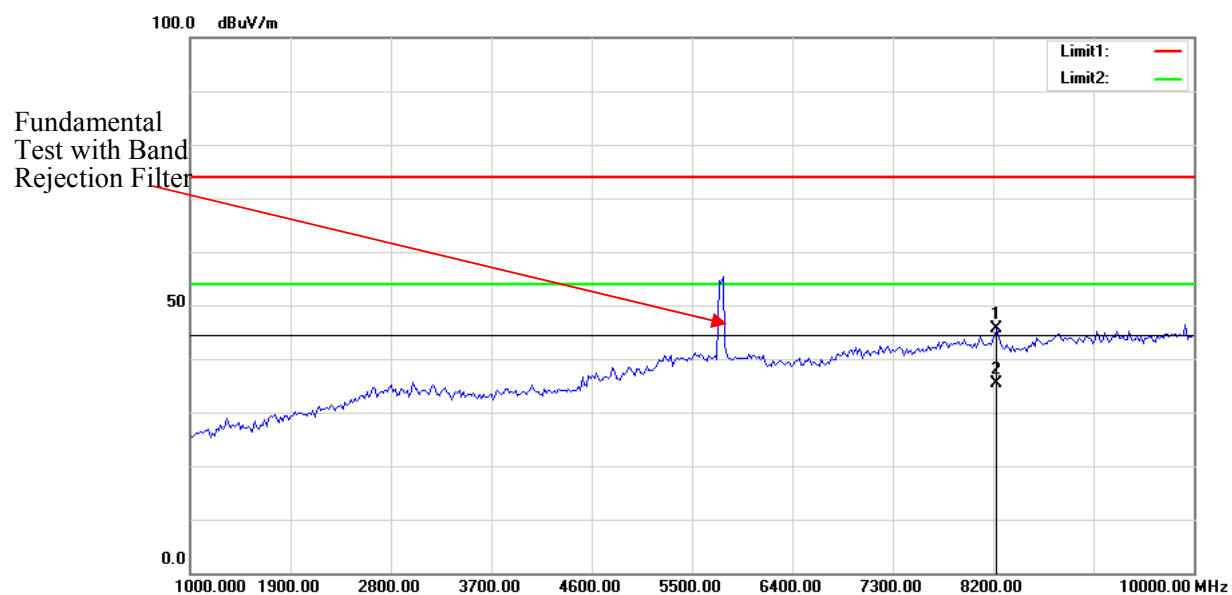
No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8791.583	44.60	peak	-0.08	44.52	74.00	29.48	159	156	
2	8791.583	34.24	AVG	-0.08	34.16	54.00	19.84	159	156	



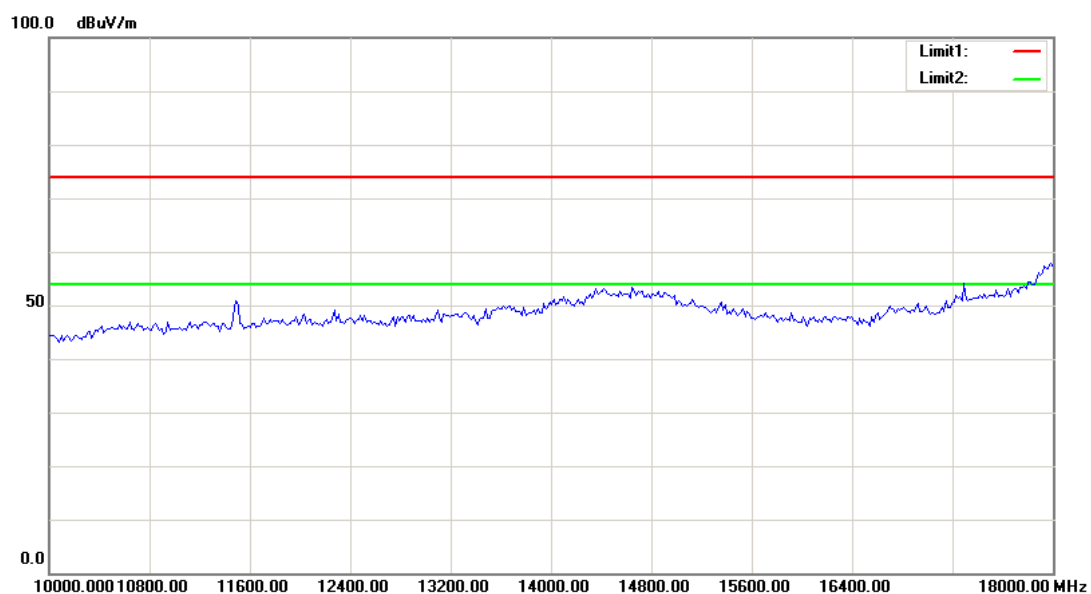
Vertical



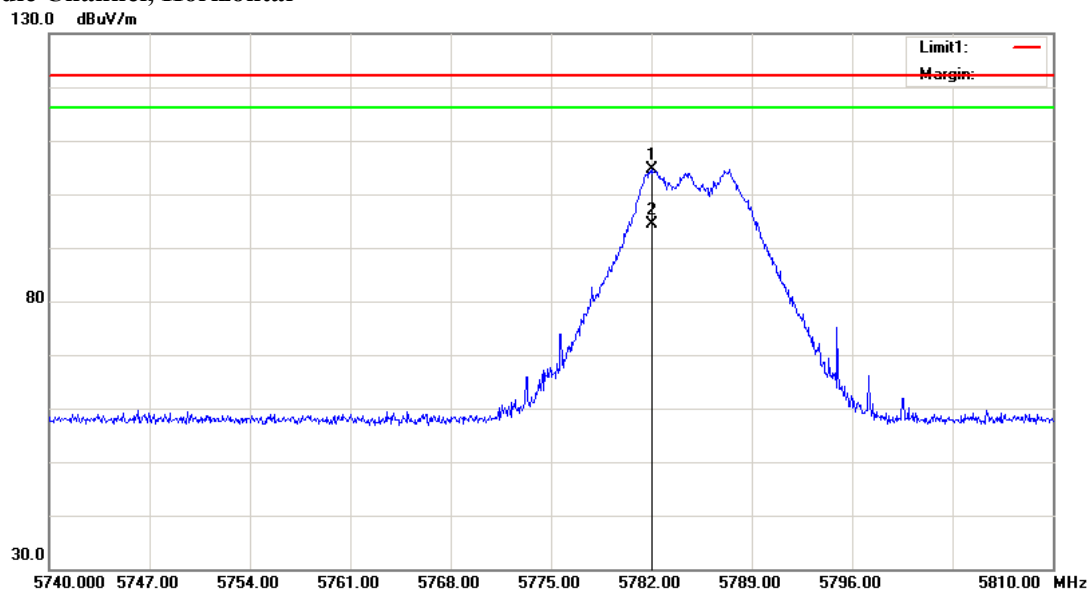
No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5650.000	28.05	peak	31.79	59.84	68.20	8.36	159	56	
2	5700.000	28.84	peak	31.86	60.70	105.20	44.50	159	56	
3	5720.000	29.24	peak	31.88	61.12	110.80	49.68	159	56	
4	5725.000	29.88	peak	31.88	61.76	122.20	60.44	159	56	
5	5743.050	86.36	peak	31.89	118.25	N/A	N/A	159	56	Fundamental
6	5743.050	76.49	AVG	31.89	108.38	N/A	N/A	159	56	Fundamental



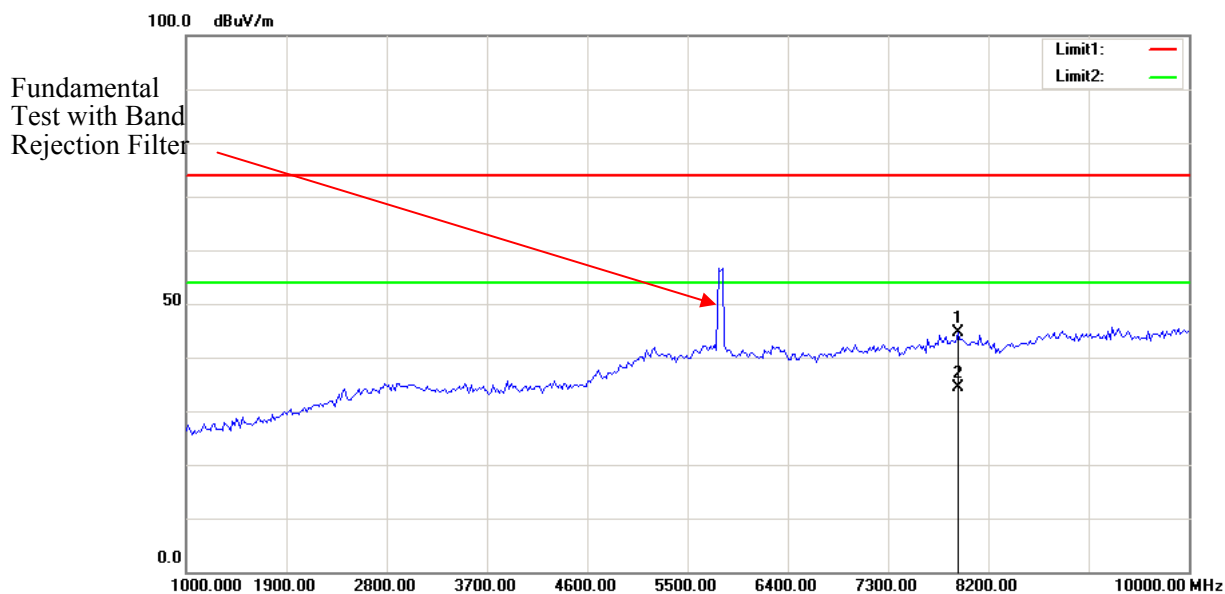
No.	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected dB/m	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8232.465	46.48	peak	-0.88	45.60	74.00	28.40	144	54	
2	8232.465	36.34	AVG	-0.88	35.46	54.00	18.54	144	54	



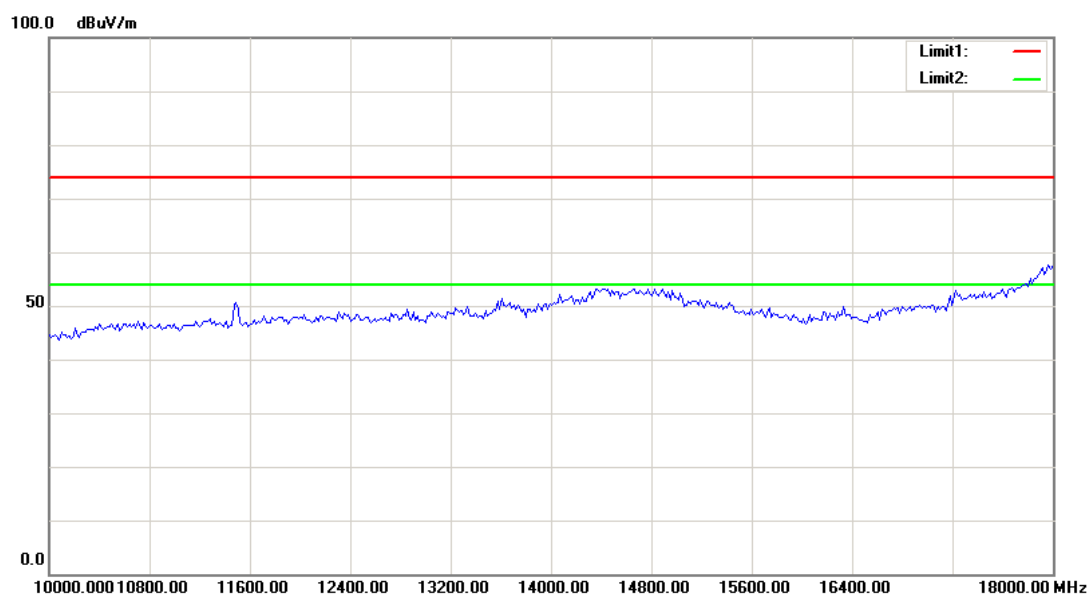
Note: No emission was detected in the range 18-40GHz.

Middle Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5782.105	72.82	peak	31.91	104.73	N/A	N/A	148	89	Fundamental
2	5782.105	62.44	AVG	31.91	94.35	N/A	N/A	148	89	Fundamental

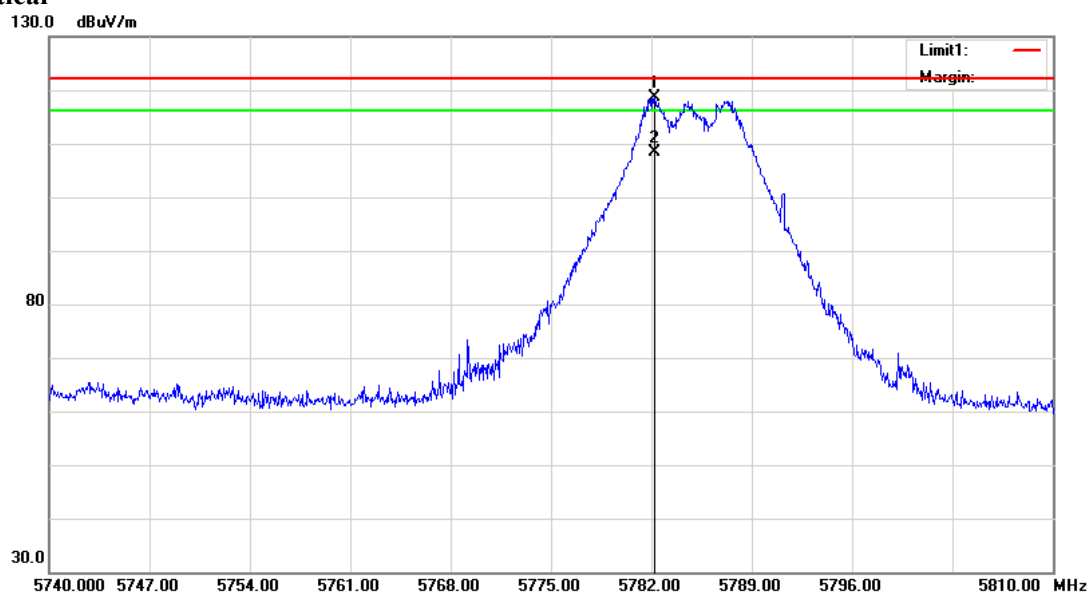


No.	Frequency (MHz)	Reading (dBμV/m)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7925.852	46.02	peak	-1.40	44.62	74.00	29.38	159	77	
2	7925.852	35.69	AVG	-1.40	34.29	54.00	19.71	159	77	

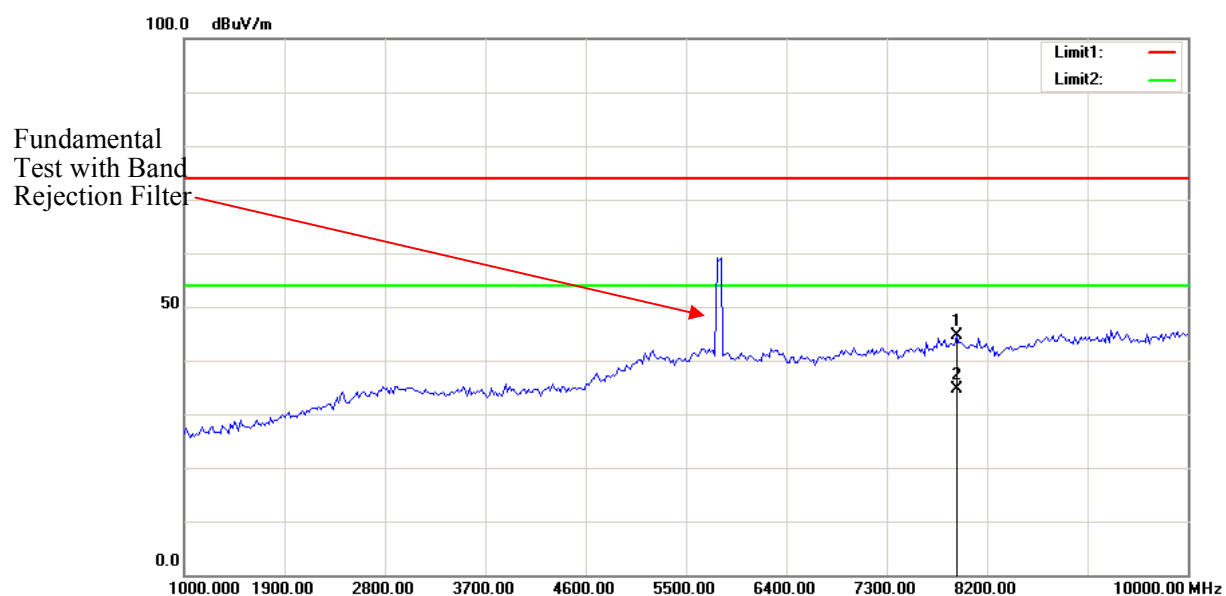


Note: No emission was detected in the range 18-40GHz.

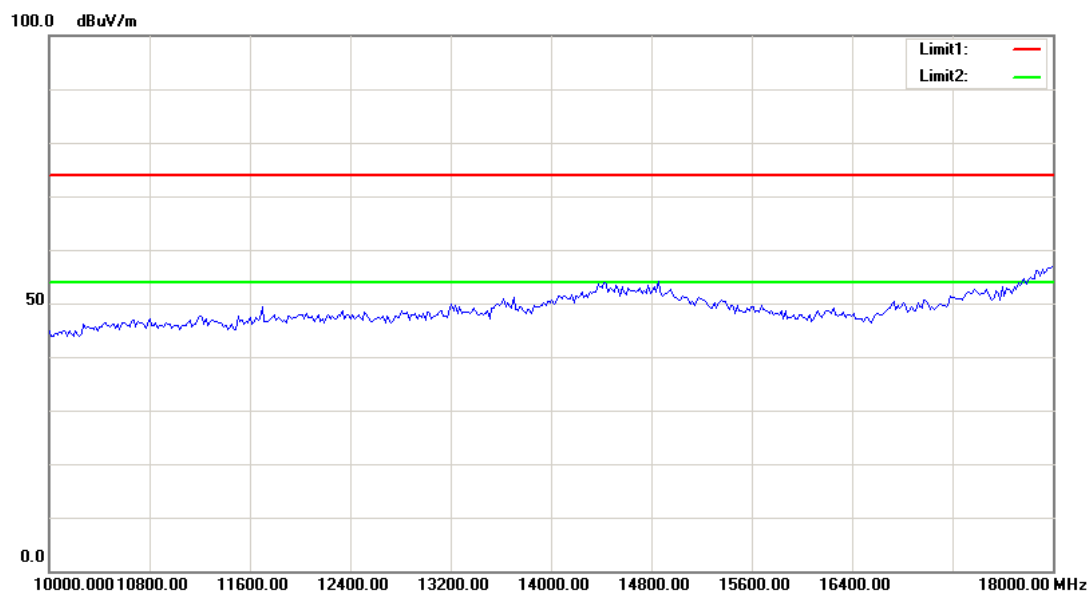
Vertical



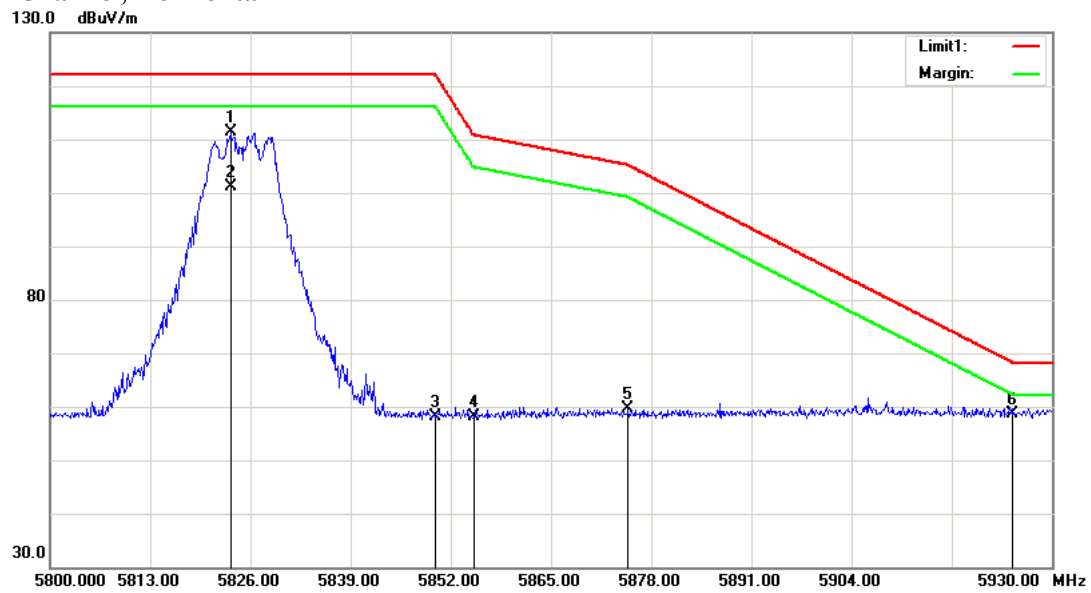
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5782.210	86.62	peak	31.91	118.53	N/A	N/A	169	150	Fundamental
2	5782.210	76.35	AVG	31.91	108.26	N/A	N/A	169	150	Fundamental



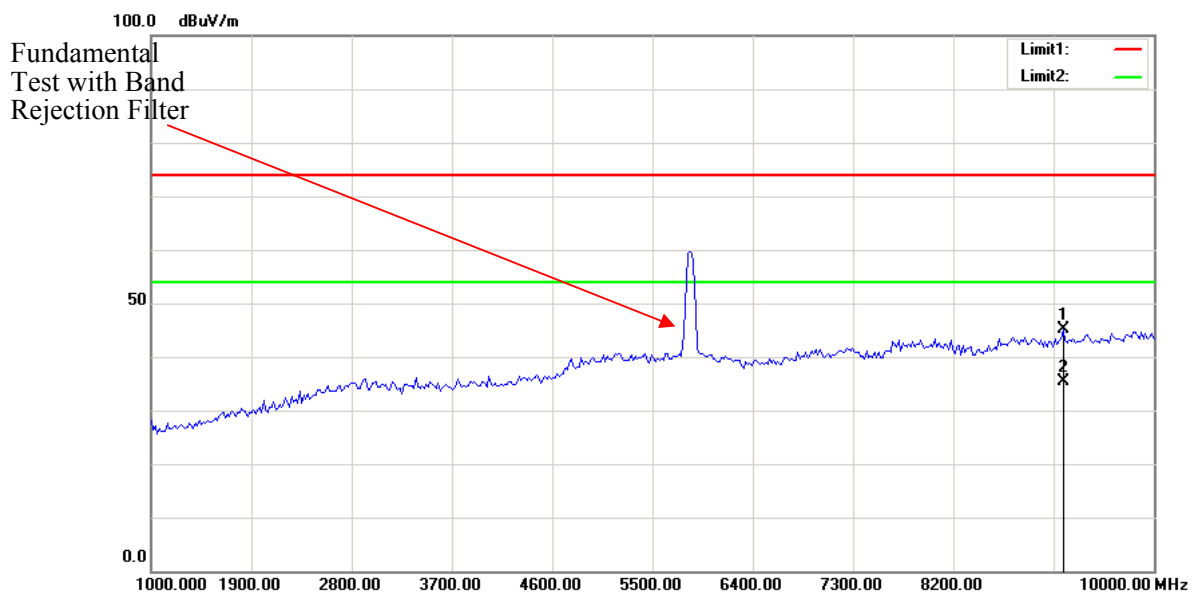
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	7925.852	46.02	peak	-1.40	44.62	74.00	29.38	152	55	
2	7925.852	35.99	AVG	-1.40	34.59	54.00	19.41	152	55	



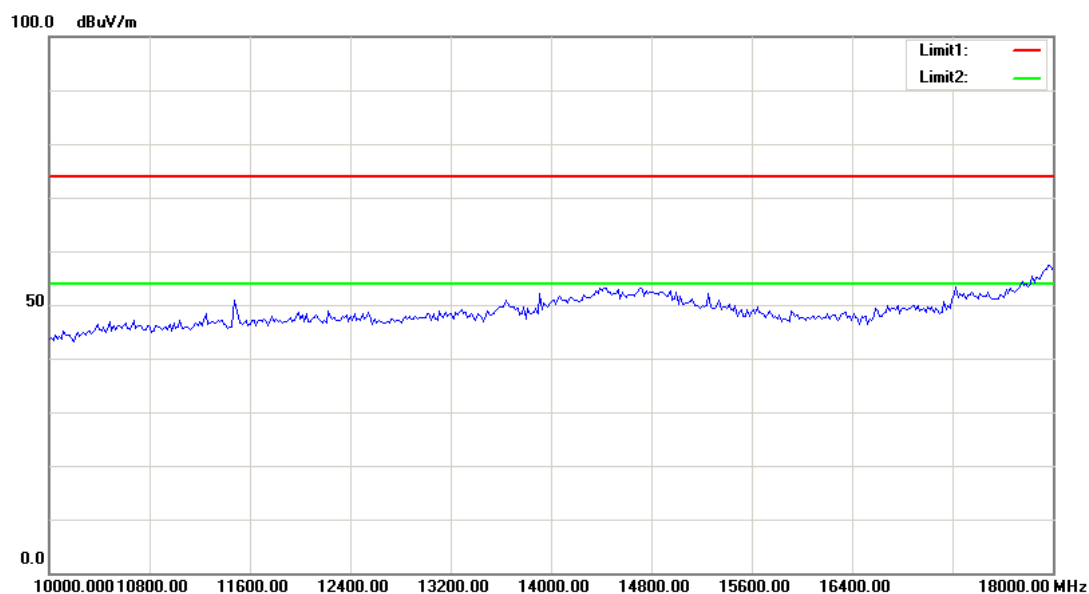
Note: No emission was detected in the range 18-40GHz.

High Channel, Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5823.465	79.36	peak	31.96	111.32	122.20	10.88	156	89	Fundamental
2	5823.465	69.27	AVG	31.96	101.23	122.20	20.97	156	89	Fundamental
3	5850.000	26.25	peak	31.99	58.24	122.20	63.96	156	89	
4	5855.000	26.06	peak	31.99	58.05	110.80	52.75	156	89	
5	5875.000	27.59	peak	32.02	59.61	105.20	45.59	156	89	
6	5925.000	26.53	peak	32.07	58.60	68.20	9.60	156	89	

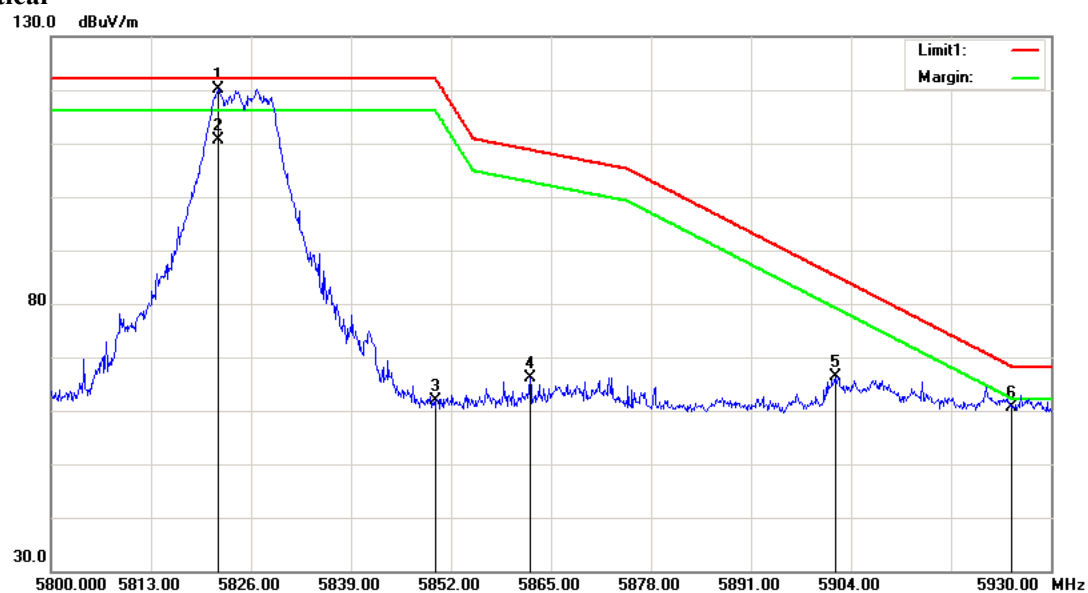


No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	9188.377	44.51	peak	0.55	45.06	74.00	28.94	158	57	
2	9188.377	34.94	AVG	0.55	35.49	54.00	18.51	158	57	

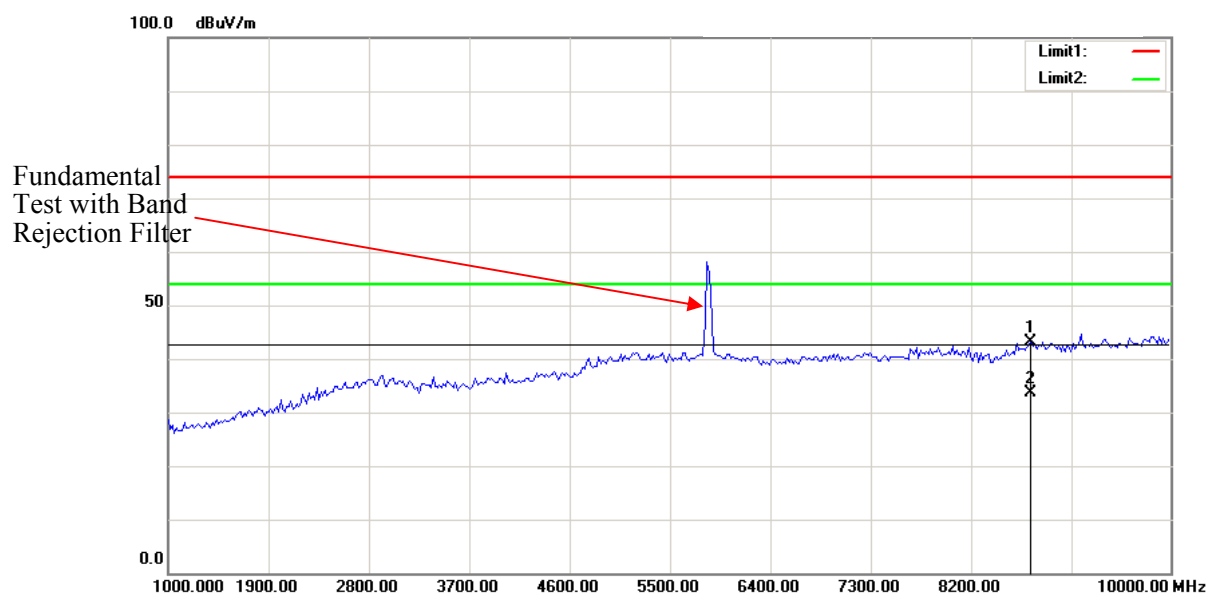


Note: No emission was detected in the range 18-40GHz.

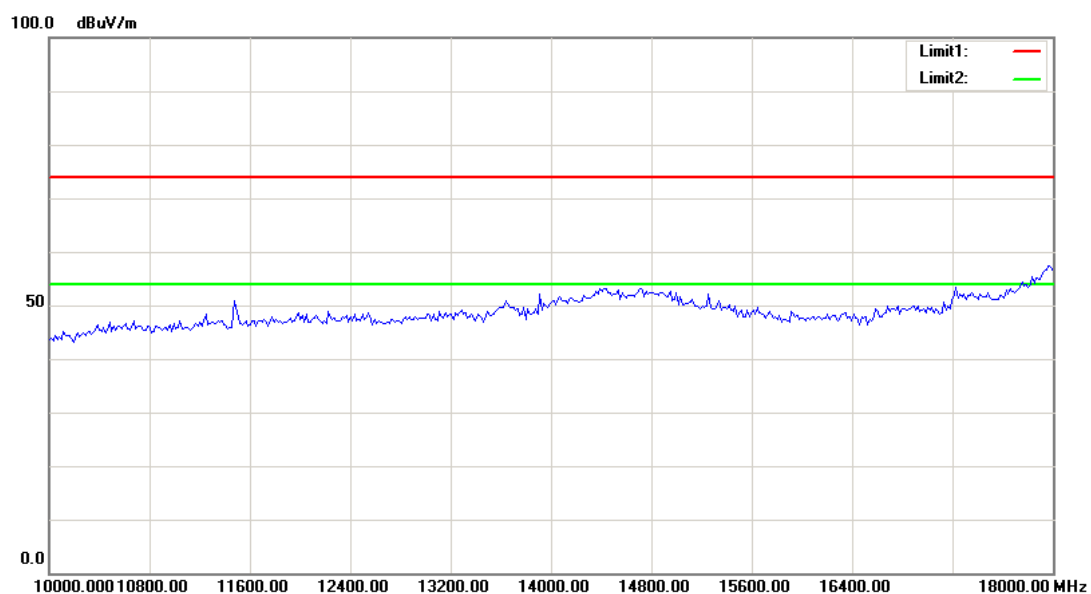
Vertical



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	5821.710	88.14	peak	31.96	120.10	122.20	2.10	149	79	Fundamental
2	5821.710	78.68	AVG	31.96	110.64	122.20	11.56	149	79	Fundamental
3	5850.000	29.96	peak	31.99	61.95	122.20	60.25	149	79	
4	5862.270	34.21	peak	32.00	66.21	108.76	42.55	149	79	
5	5901.985	34.43	peak	32.05	66.48	85.19	18.71	149	79	
6	5925.000	28.54	peak	32.07	60.61	68.20	7.59	149	79	



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected dB/m	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Comment
1	8737.475	43.27	peak	-0.17	43.10	74.00	30.90	188	57	
2	8737.475	33.75	AVG	-0.17	33.58	54.00	20.42	188	57	



Note: No emission was detected in the range 18-40GHz.

FCC §15.407(a)& RSS-247 §6.2,RSS-Gen §6.6– EMISSION BANDWIDTH**Applicable Standard**

15.407(a), RSS-247 §6.2 and RSS-Gen §6.6

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSIQ 26	831929/005	2017-08-31	2018-08-31
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Test Data**Environmental Conditions**

Temperature:	25.7 °C
Relative Humidity:	37 %
ATM Pressure:	101 kPa

The testing was performed by Swim Lv on 2017-10-22.

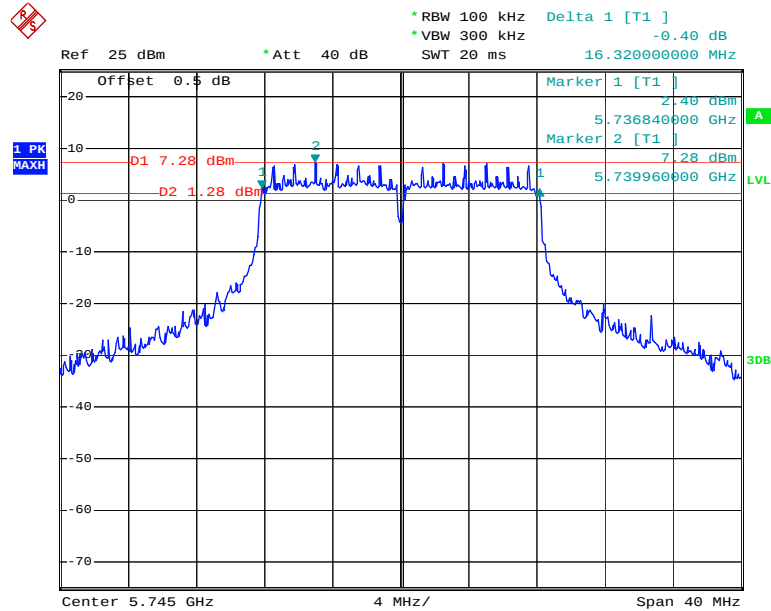
Test Result: Pass.

Please refer to the following tables and plots.

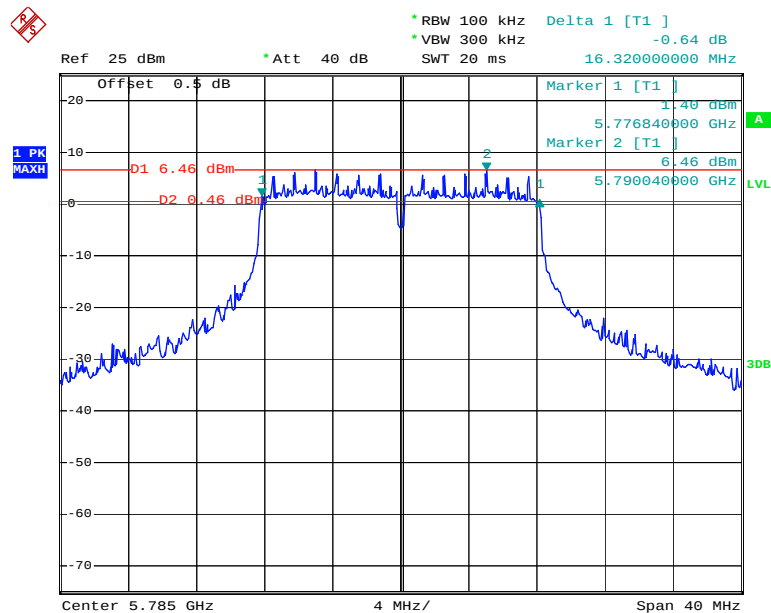
Test mode: Transmitting (Test was performed at chain 0)

UNII Band	Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5725-5850MHz	802.11 a	Low	5745	16.32	16.8
		Middle	5785	16.32	16.8
		High	5825	16.32	16.8
	802.11n ht20	Low	5745	16.88	18.08
		Middle	5785	16.88	18.08
		High	5825	16.96	17.92
	802.11n ht40	Low	5755	36	37.92
		High	5795	35.68	38.08
	5M	Low	5745	4.16	4.44
		Middle	5785	4.2	4.44
		High	5825	4.16	4.46
	10M	Low	5745	8.32	9.4
		Middle	5785	8.32	9.44
		High	5825	8.32	9.48

Note: For 5725-5850MHz band, the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

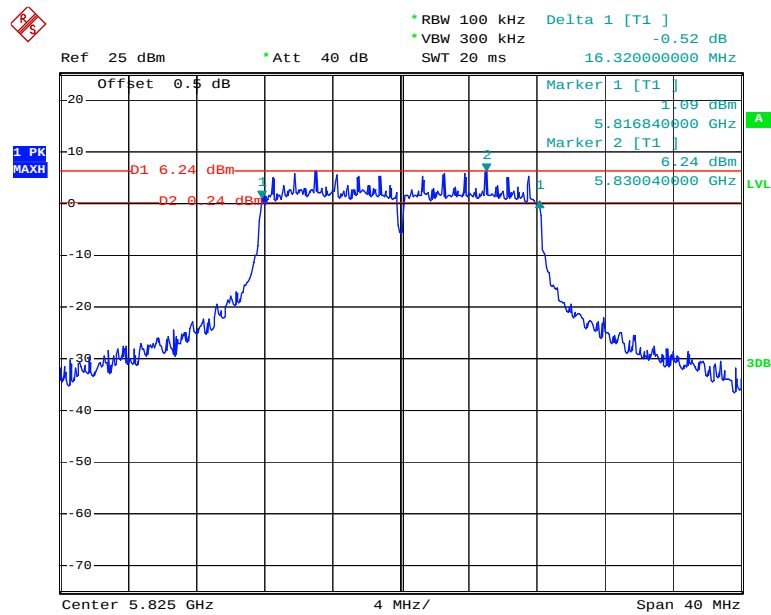
6dB Bandwidth:**802.11a Low Channel**

Date: 22.OCT.2017 09:37:39

802.11a Middle Channel

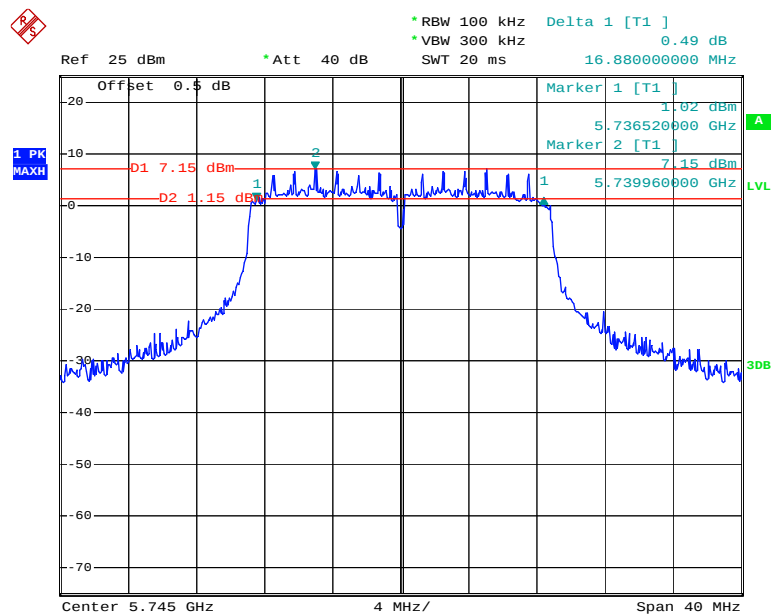
Date: 22.OCT.2017 09:39:29

802.11a High Channel



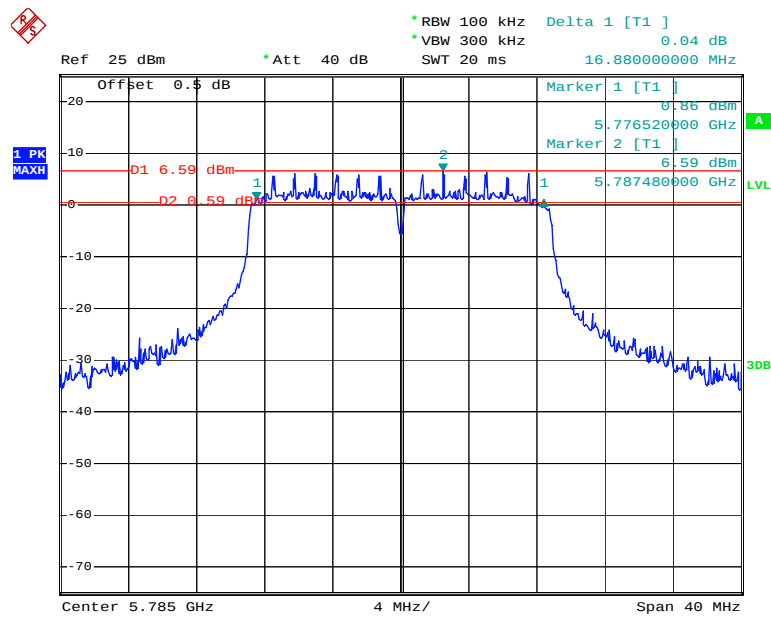
Date: 22.OCT.2017 09:40:54

802.11ht20 Low Channel



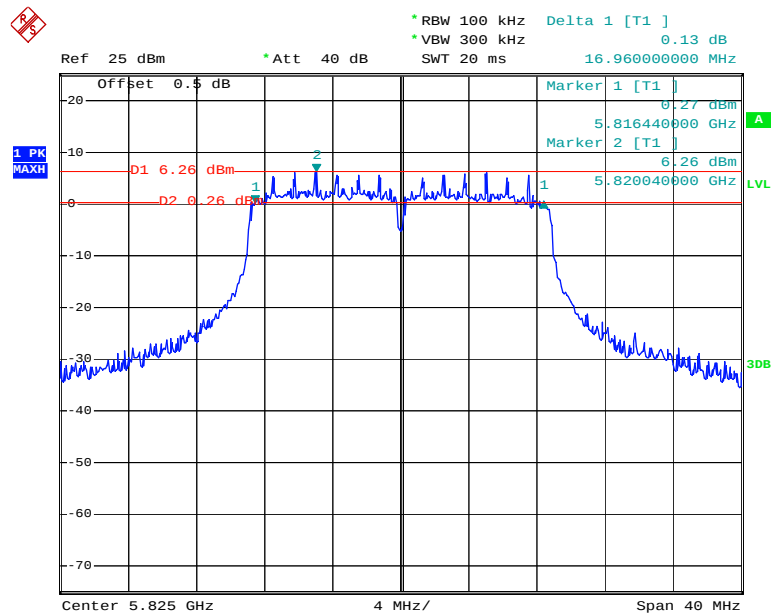
Date: 22.OCT.2017 09:43:23

802.11ht20 Middle Channel



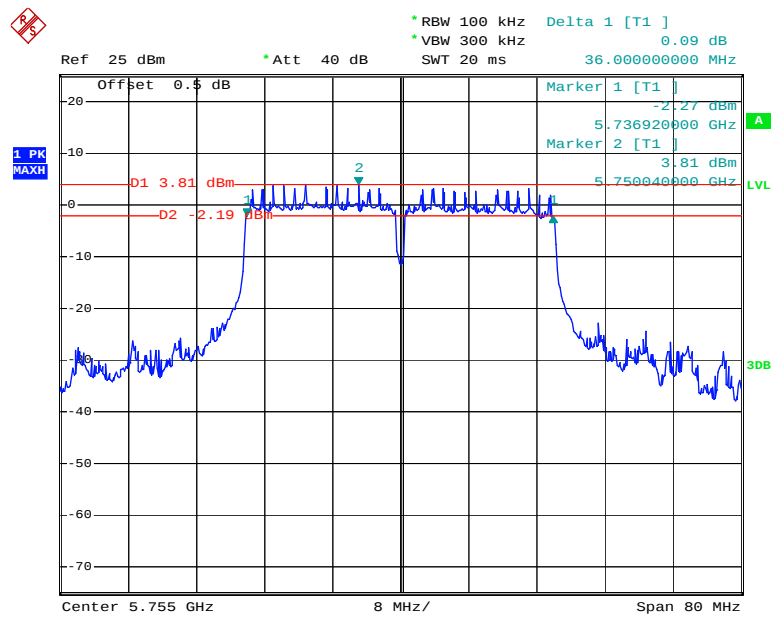
Date: 22.OCT.2017 09:45:01

802.11ht20 High Channel



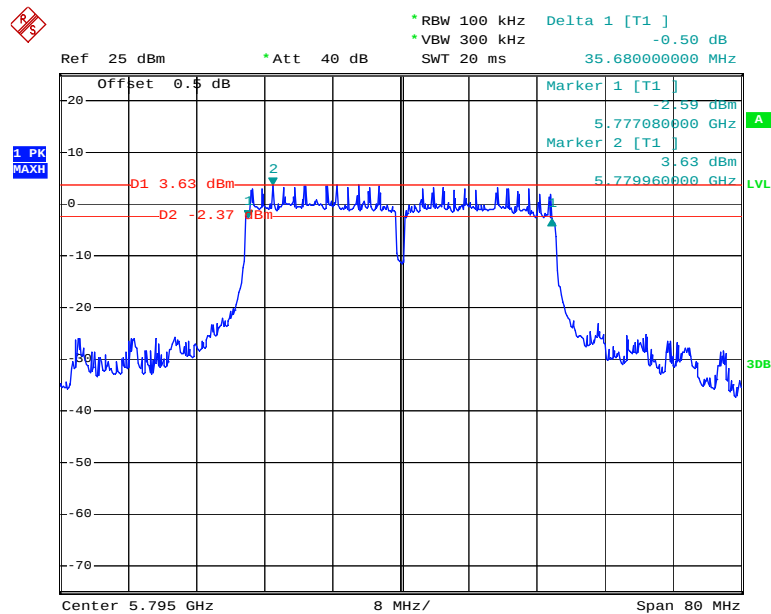
Date: 22.OCT.2017 09:46:15

802.11ht40 Low Channel



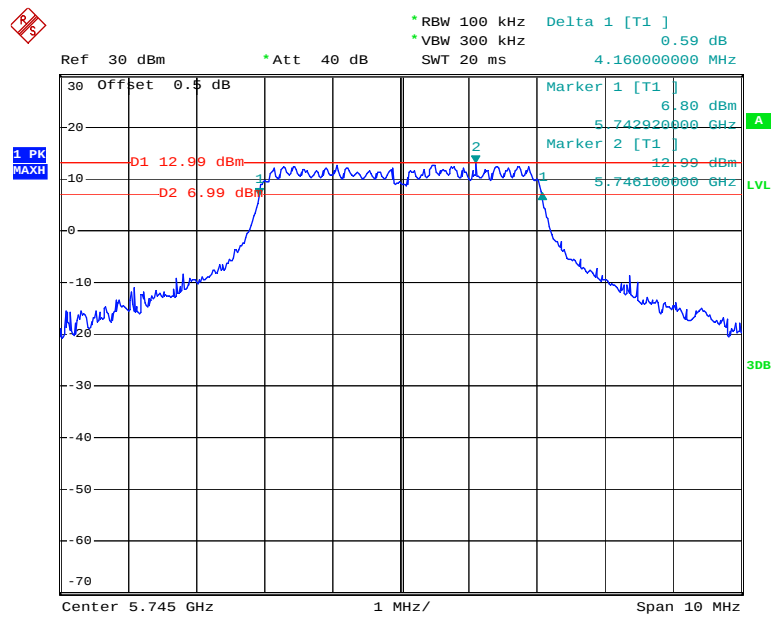
Date: 22.OCT.2017 09:48:51

802.11ht40 High Channel



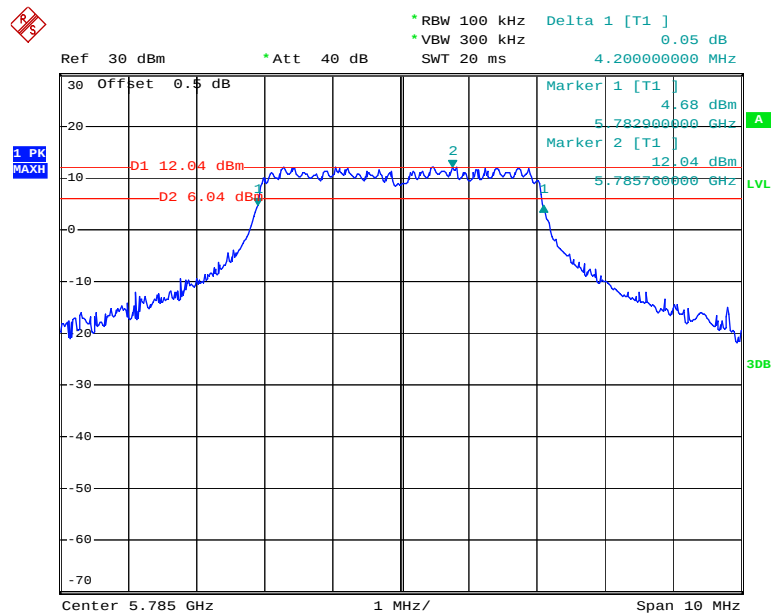
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5M Low Channel

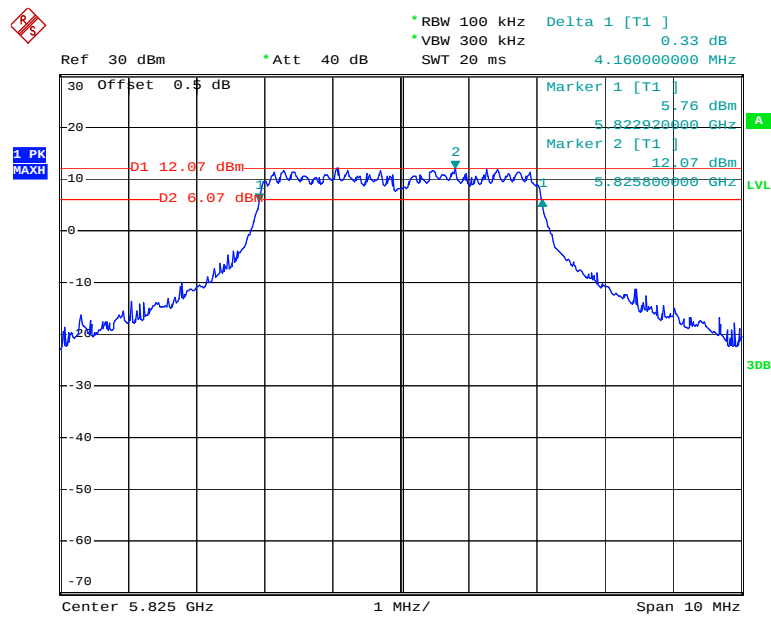


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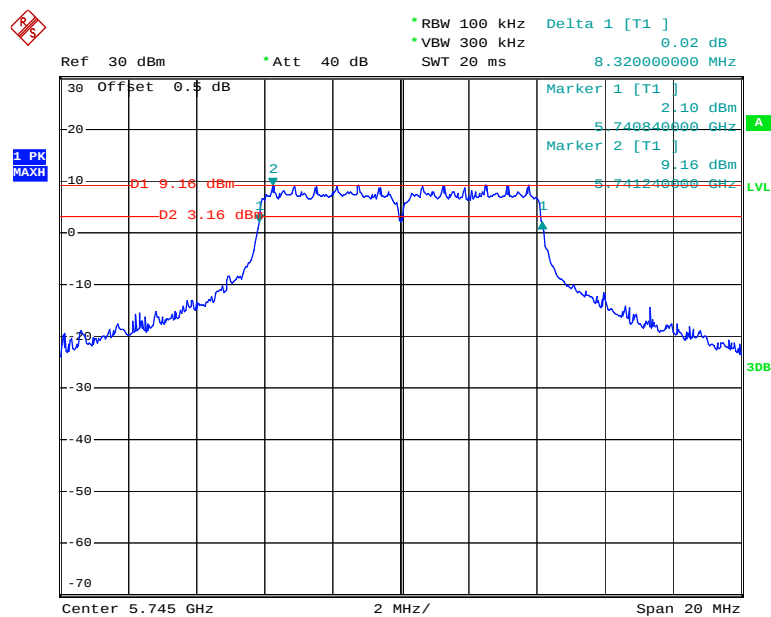
5M Middle Channel



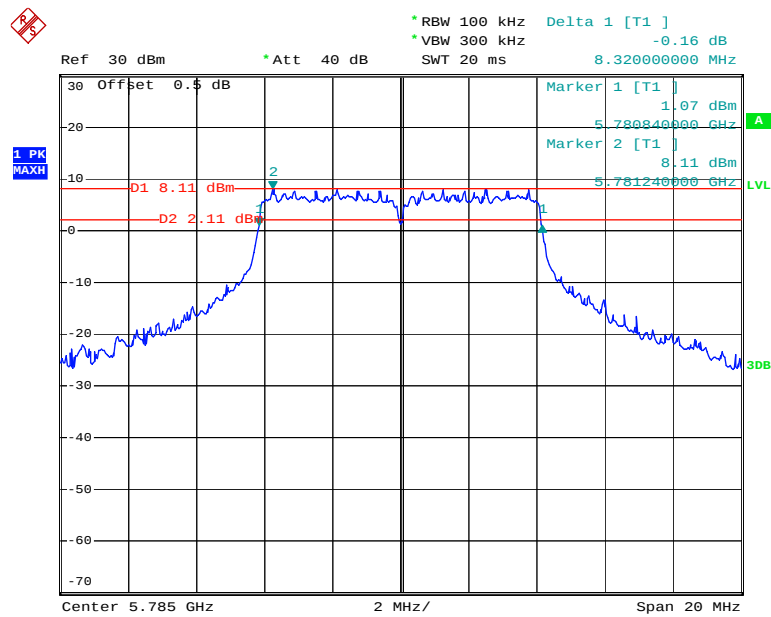
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5M High Channel

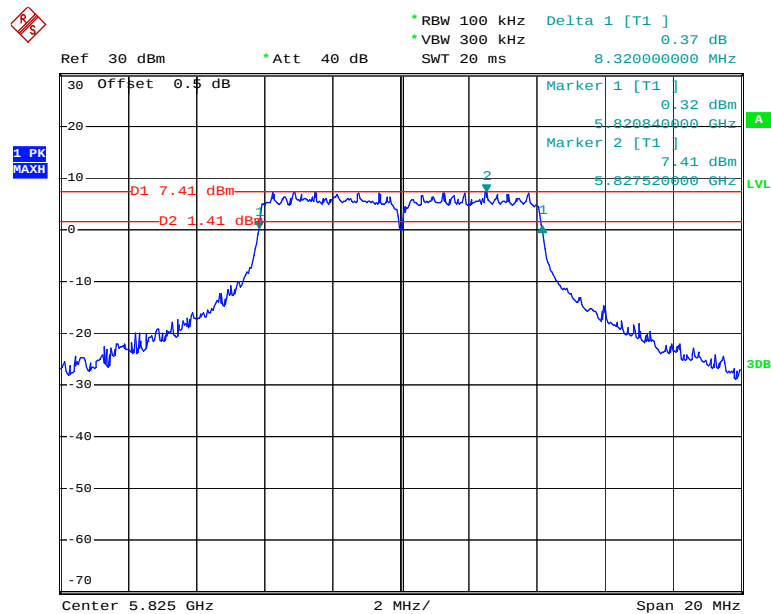
Date: 22.OCT.2017 14:07:31

10M Low Channel

Date: 22.OCT.2017 14:12:57

10M Middle Channel

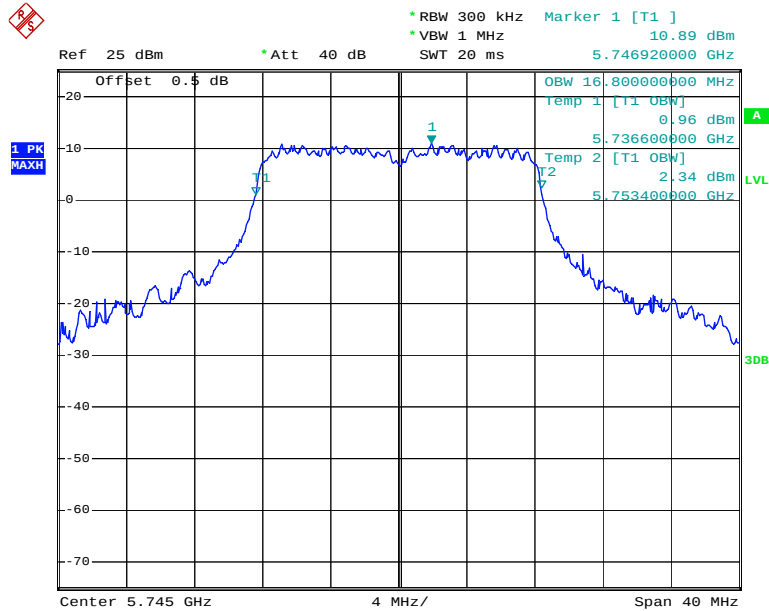
Date: 22.OCT.2017 14:15:41

10M High Channel

Date: 22.OCT.2017 14:17:42

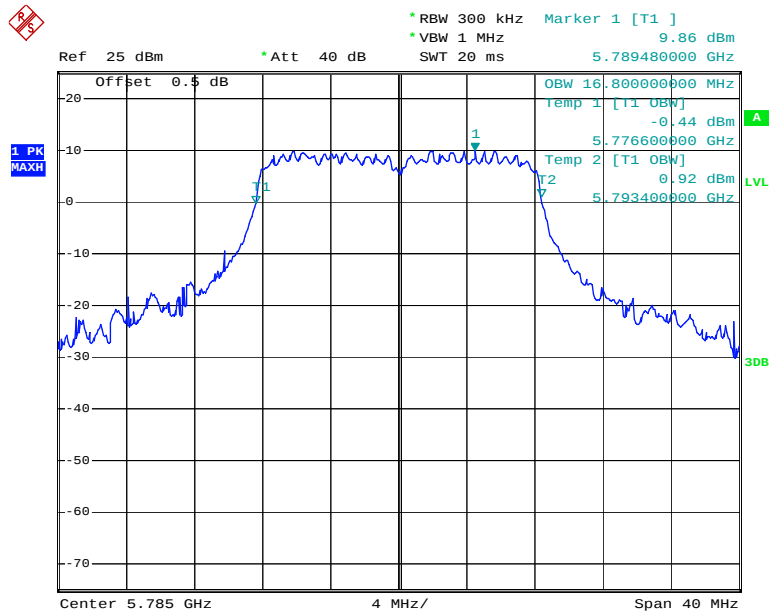
99% Occupied Bandwidth:

802.11a Low Channel



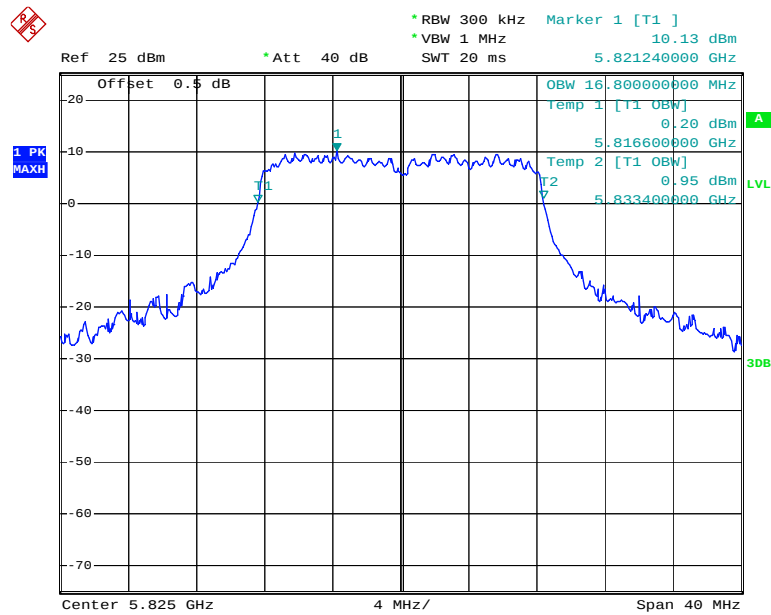
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802.11a Middle Channel



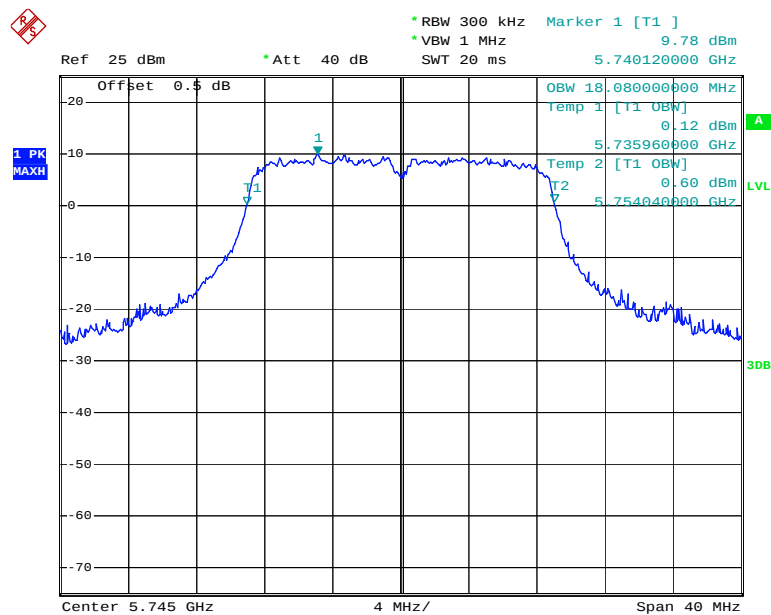
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802.11a High Channel



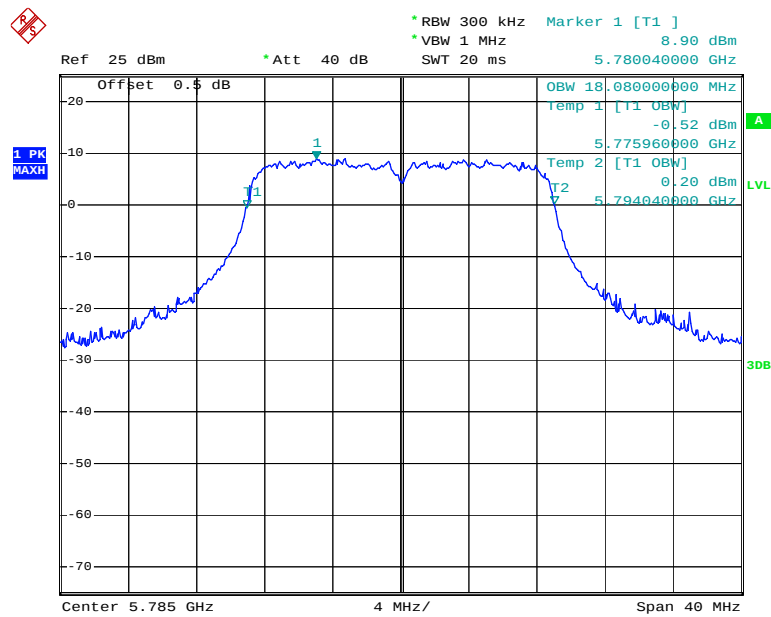
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802.11ht20 Low Channel



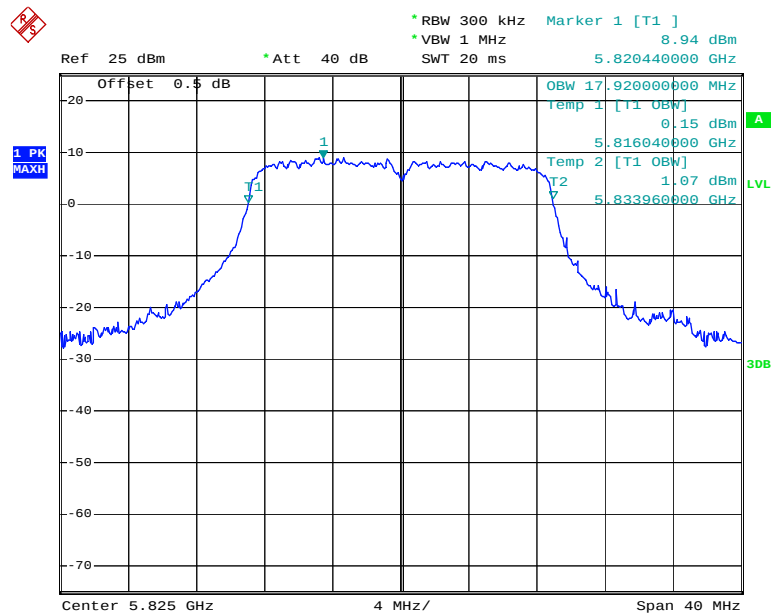
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802.11ht20 Middle Channel



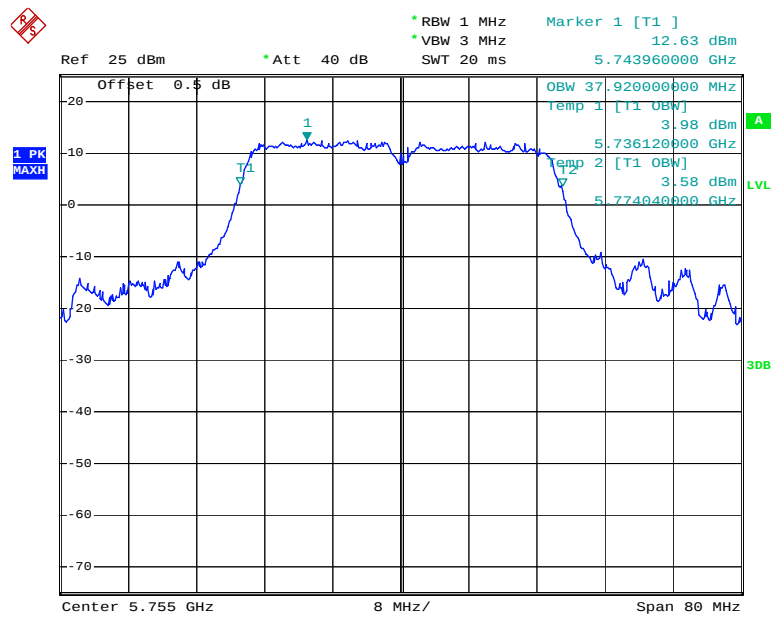
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802.11ht20 High Channel



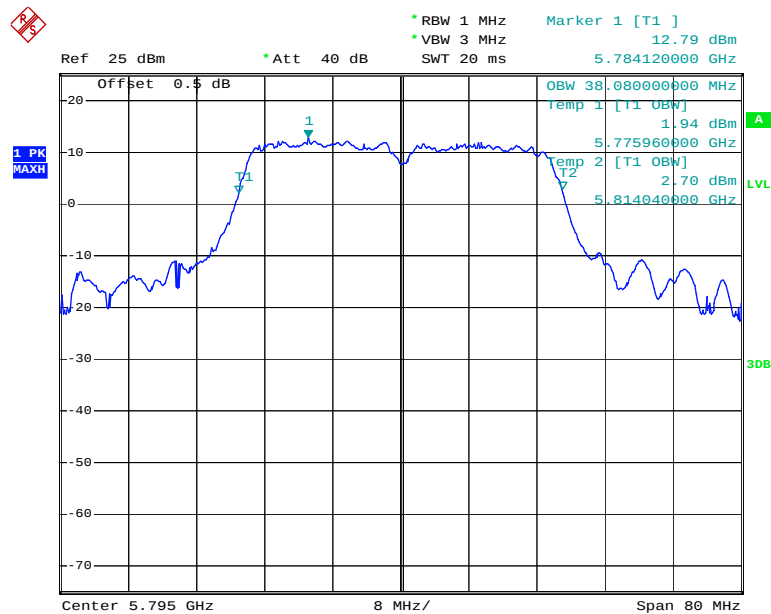
Date: 22.OCT.2017 09:46:28

802.11ht40 Low Channel



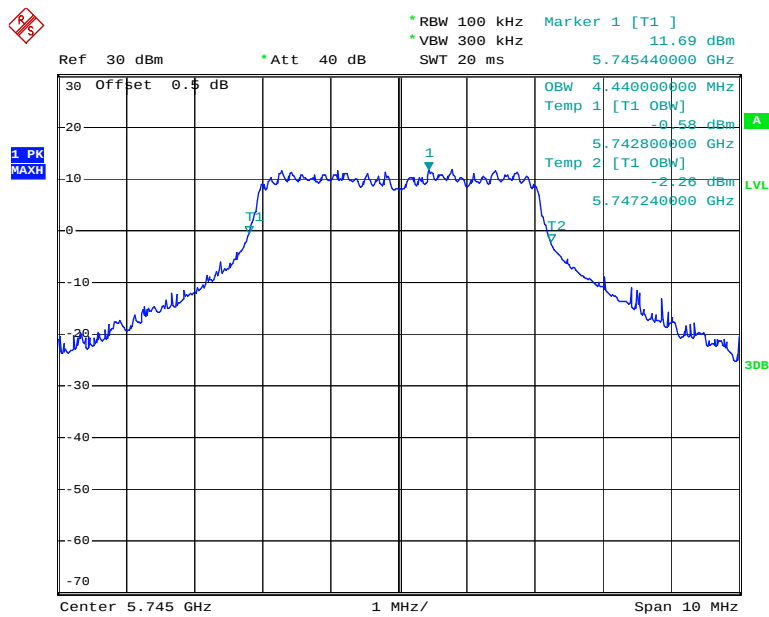
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802.11ht40 High Channel



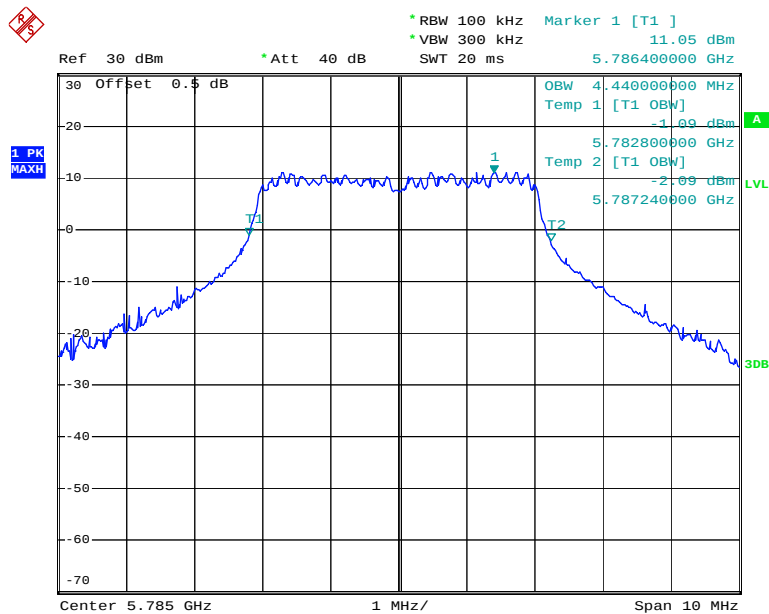
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5M Low Channel



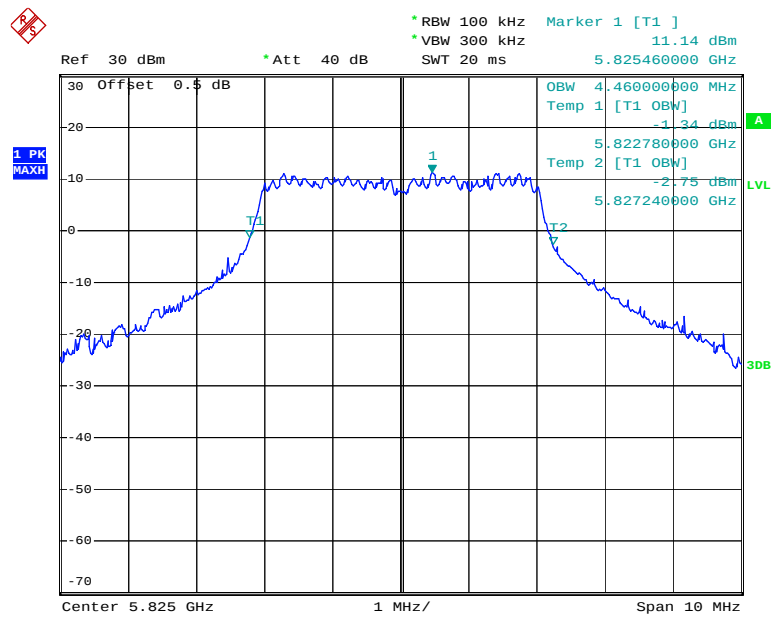
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5M Middle Channel



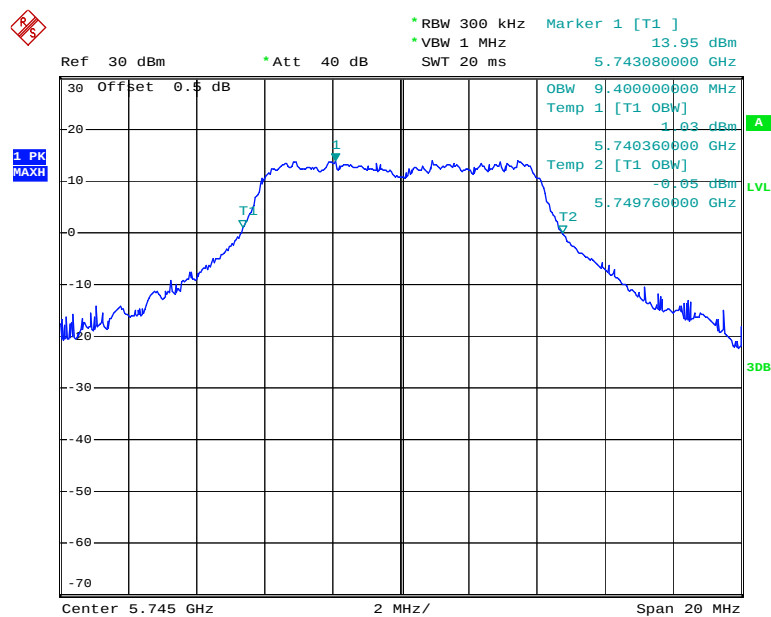
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5M High Channel

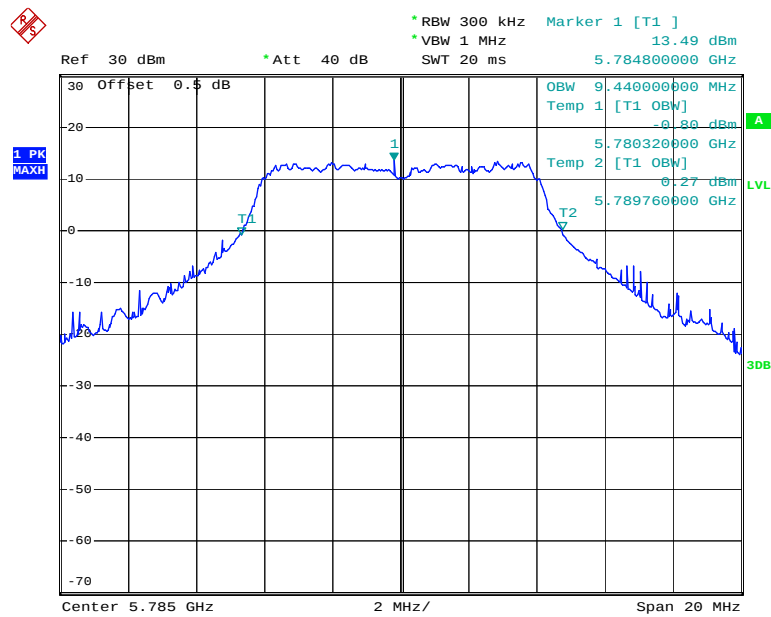


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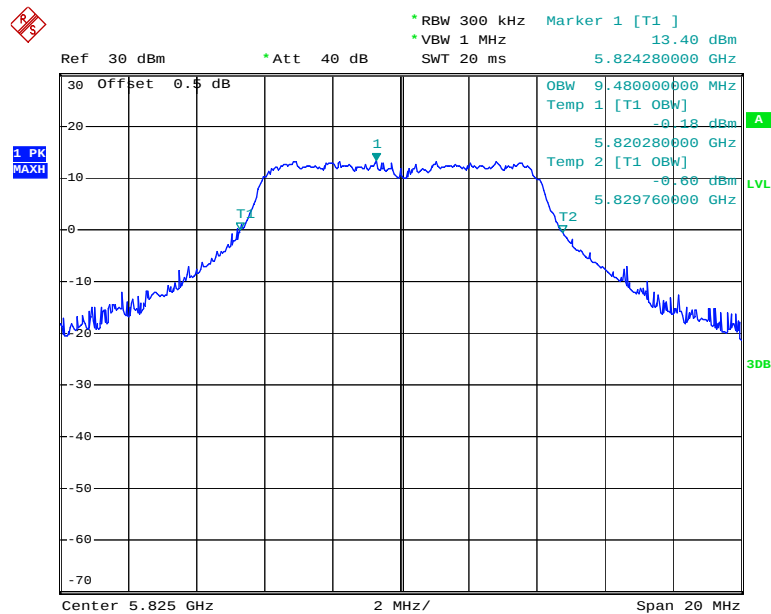
10M Low Channel



Date: 22.OCT.2017 14:23:43

10M Middle Channel

Date: 22.OCT.2017 14:23:02

10M High Channel

Date: 22.OCT.2017 14:21:34

FCC §15.407(a) & RSS-247 §6.2– MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.407(a)

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum

power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

According to RSS-247 §6.2:

Frequency band 5150-5250 MHz

6.2.1.1 Power limits

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less stringent. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Frequency band 5250-5350 MHz

6.2.2.1 Power limits

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency bands 5470-5600 MHz and 5650-5725 MHz

6.2.3.1 Power limits

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency band 5725-5850 MHz

6.2.4.1 Power limits

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2016-11-03	2017-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2016-11-03	2017-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2016-11-03	2017-11-03
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Test Data**Environmental Conditions**

Temperature:	26.6 °C
Relative Humidity:	47 %
ATM Pressure:	101 kPa

The testing was performed by Swim Lv on 2017-10-23.

Test Mode: Transmitting

UNII Band	Mode	Frequency (MHz)	Conducted Average Output Power (dBm)			Limit (dBm)	Result
			Chain 0	Chain 1	Total		
5725-5850 MHz	802.11 a	5745	19.77	19.46	22.63	30	PASS
		5785	19.47	19.24	22.37	30	PASS
		5825	19.36	19.18	22.28	30	PASS
	802.11ht20	5745	19.76	19.24	22.52	30	PASS
		5785	19.36	19.23	22.31	30	PASS
		5825	19.26	19.11	22.2	30	PASS
	802.11ht40	5755	19.54	19.02	22.3	30	PASS
		5795	19.77	19.41	22.6	30	PASS
	5M	5745	19.81	19.3	22.57	30	PASS
		5785	19.38	19.21	22.31	30	PASS
		5825	19.23	18.92	22.09	30	PASS
	10M	5745	19.83	19.38	22.62	30	PASS
		5785	19.41	19.33	22.38	30	PASS
		5825	19.46	19.01	22.25	30	PASS

Note: The maximum antenna gain is 3.74dBi in 5GHz band. The device employed Cyclic Delay Diversity (CDD) for MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:

Directional gain = $G_{ANT} + \text{Array Gain} = 3.74\text{dBi} < 6\text{dBi}$

FCC §15.407(a)& RSS-247 §6.2 - POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §15.407(a)

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output

power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

According to RSS-247 §6.2:

Frequency band 5150-5250 MHz

6.2.1.1 Power limits

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less stringent. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Frequency band 5250-5350 MHz

6.2.2.1 Power limits

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency bands 5470-5600 MHz and 5650-5725 MHz**6.2.3.1 Power limits**

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency band 5725-5850 MHz**6.2.4.1 Power limits**

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSIQ 26	831929/005	2017-08-31	2018-08-31
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25.1 °C
Relative Humidity:	37 %
ATM Pressure:	101 kPa

The testing was performed by Harry Yang on 2017-10-22.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plot.

Mode	Frequency (MHz)	Reading (dBm/300kHz)		Power Density (dBm/500kHz)	
		Chain 0	Chain 1	Total	Limit
802.11 a	5745	3.57	4.34	9.2	29.26
	5785	3.27	3.62	8.68	29.26
	5825	2.91	3.65	8.52	29.26
802.11 ht20	5745	3.79	5.41	9.9	29.26
	5785	3.3	3.99	8.89	29.26
	5825	3.1	4.15	8.89	29.26
802.11 ht40	5755	1.53	1.97	6.98	29.26
	5795	0.73	1.57	6.4	29.26
5M	5745	9.33	9.74	14.77	29.26
	5785	9.02	8.71	14.1	29.26
	5825	9.21	9.09	14.38	29.26
10M	5745	6.66	6.39	11.76	29.26
	5785	6	6	11.23	29.26
	5825	6.15	6.73	11.68	29.26

Note 1: The device employed Cyclic Delay Diversity (CDD) for MIMO transmitting, per C63.10-2013 clause 14.4.3.2.5 b, Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

For power density measurements,

Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB.

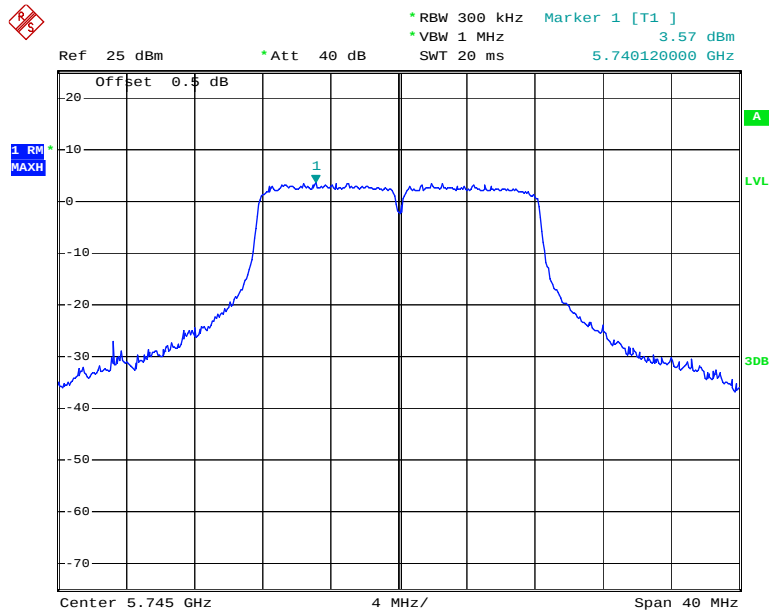
So:

Directional gain = GANT + Array Gain = $3.74 + 10 \cdot \log(2) = 6.74$ dBi

Note 2: For 5.8GHz band, If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

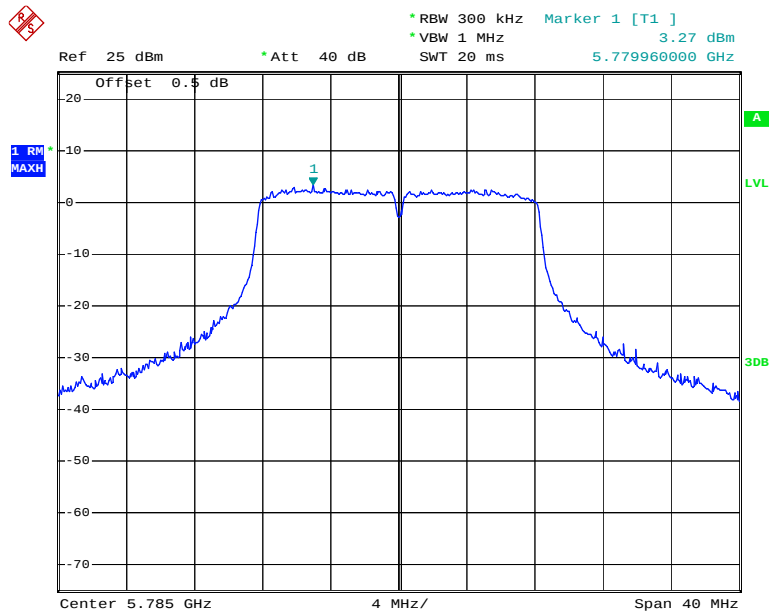
Chain 0:

802.11a Low Channel



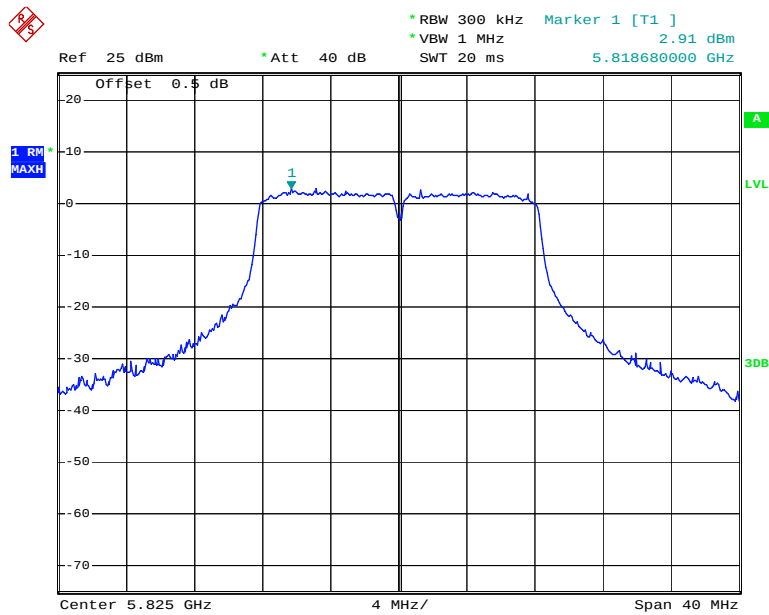
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802.11a Middle Channel



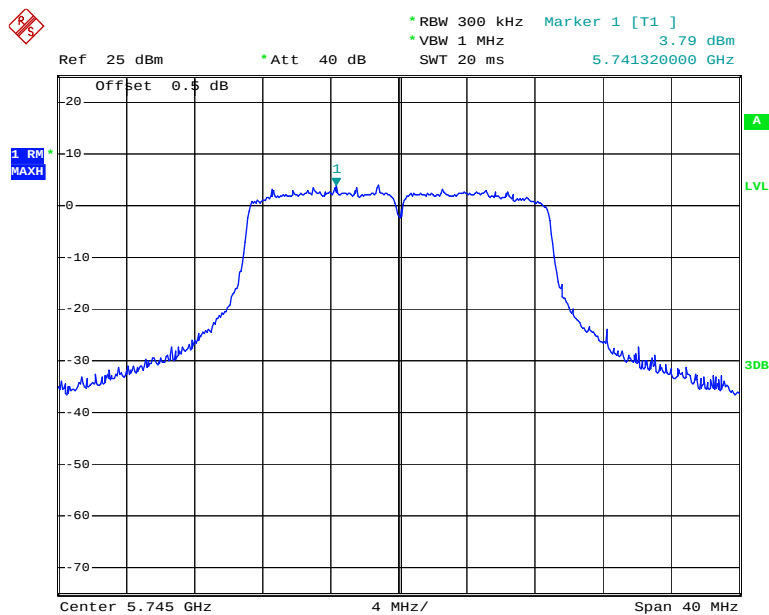
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802.11a High Channel



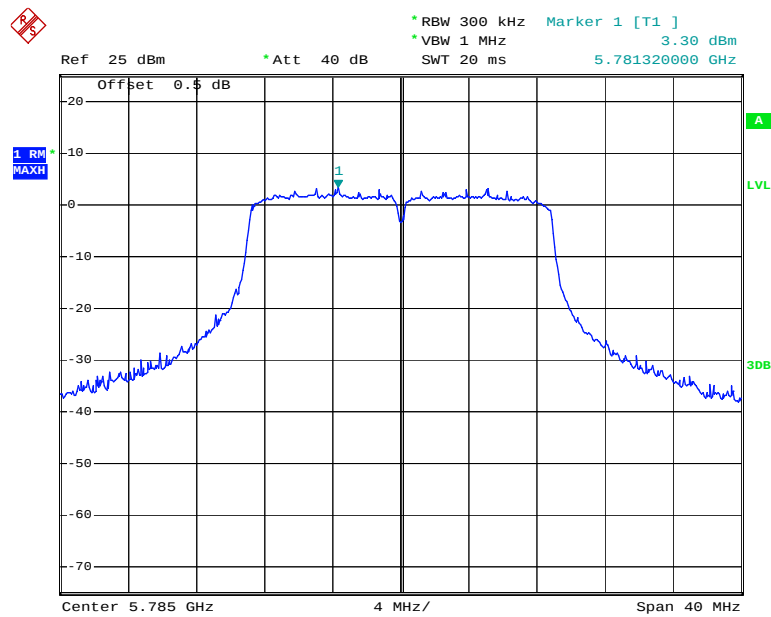
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802.11n ht20 Low Channel



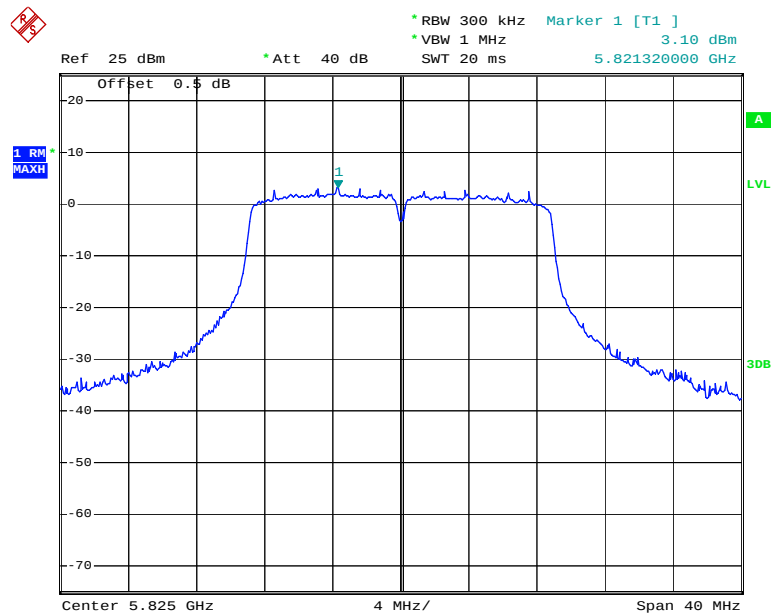
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802.11n ht20 Middle Channel



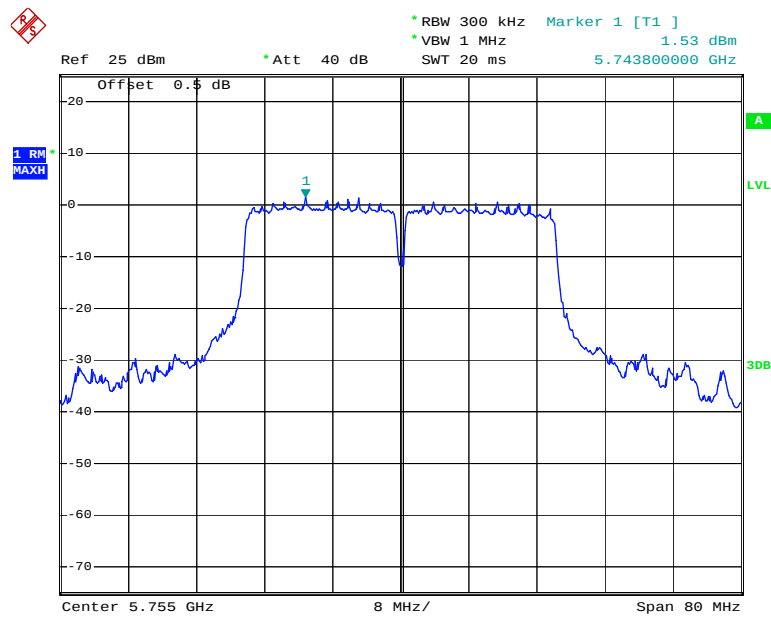
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802.11n ht20 High Channel



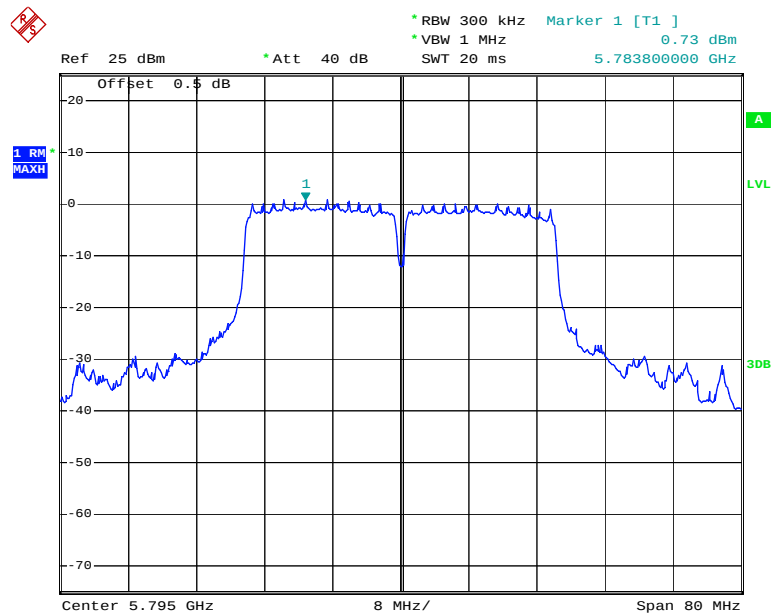
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802.11n ht40 Low Channel



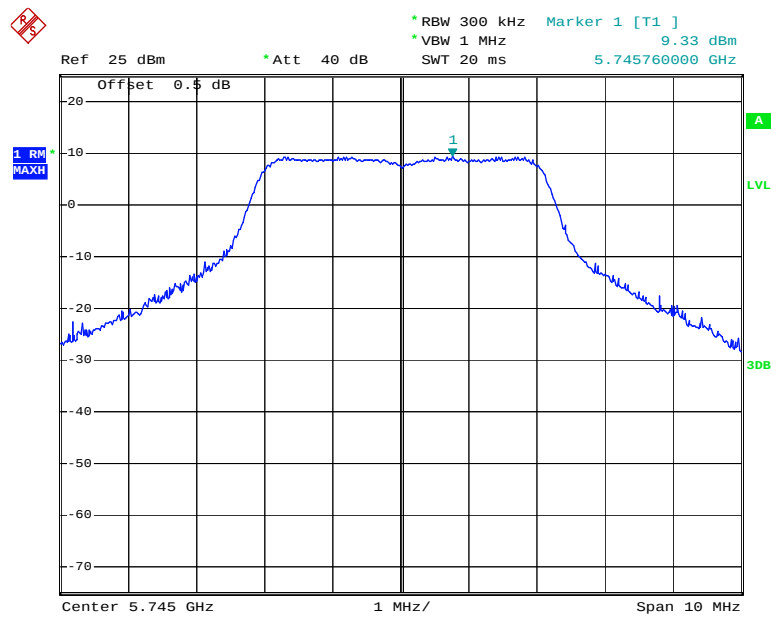
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802.11n ht40 High Channel



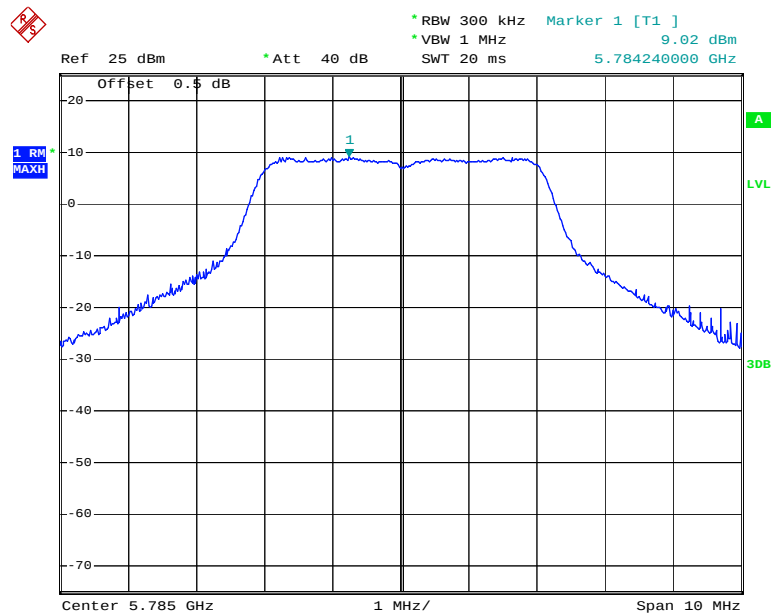
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5M Low Channel



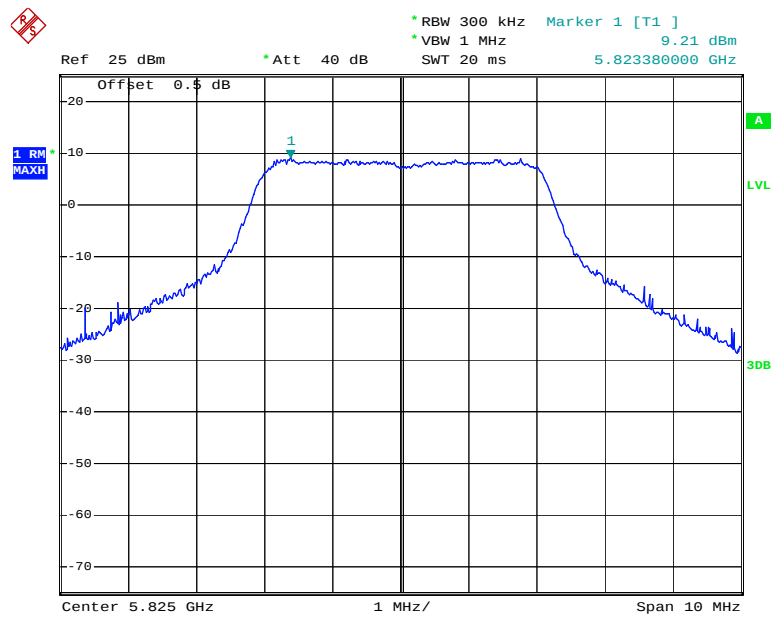
Date: 22.OCT.2017 16:59:48

5M Middle Channel



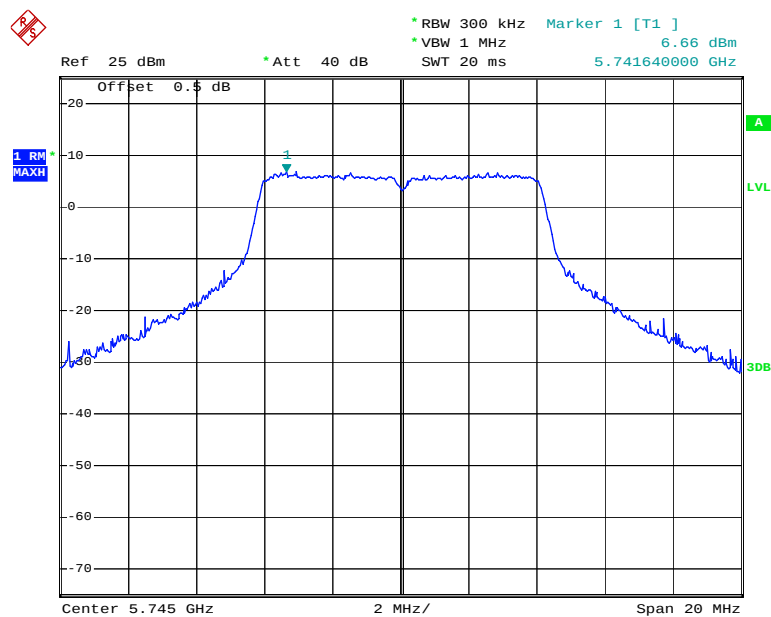
Date: 22.OCT.2017 17:00:36

5M High Channel



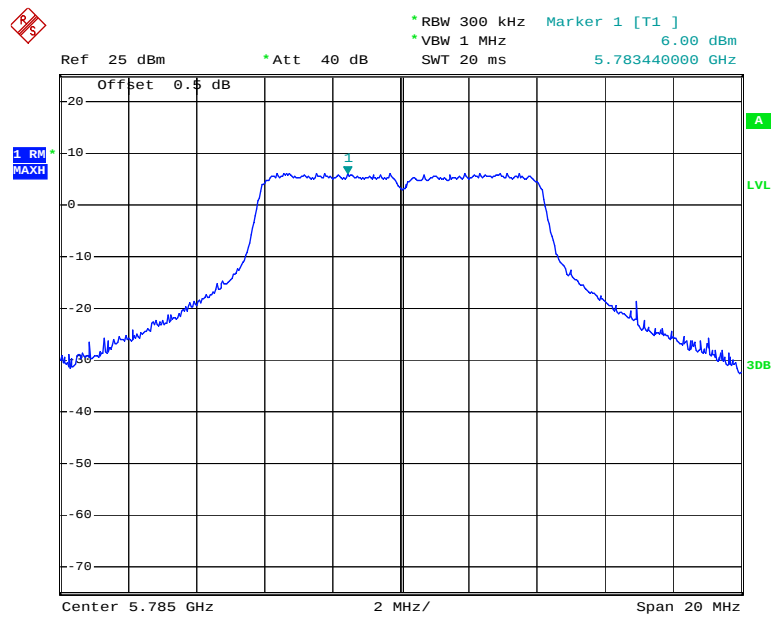
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10M Low Channel



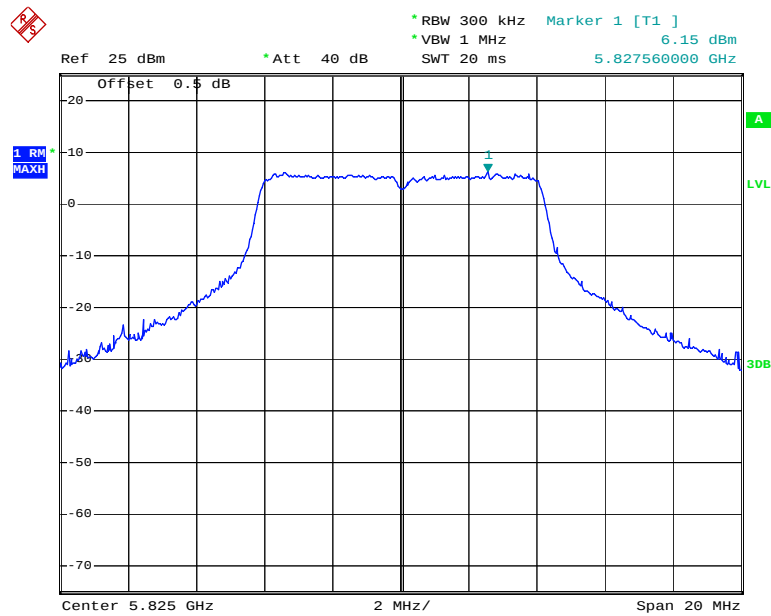
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10M Middle Channel

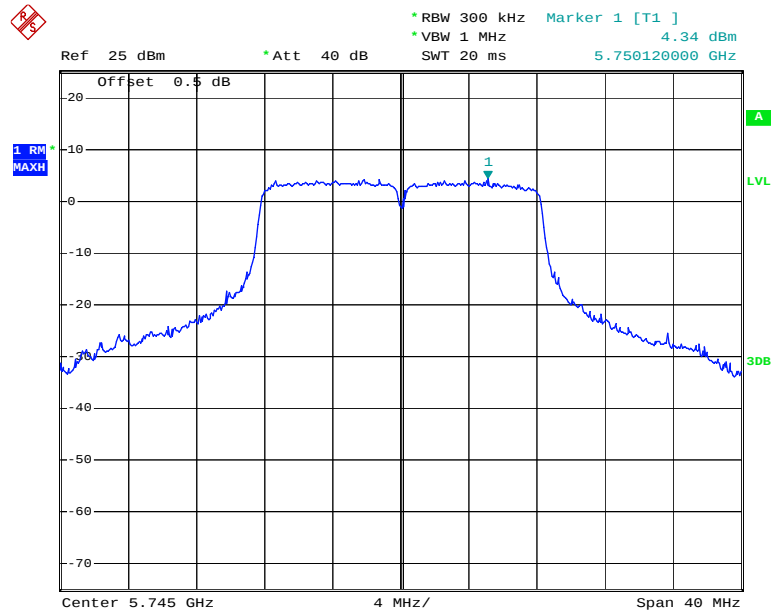


Date: 22.OCT.2017 16:58:47

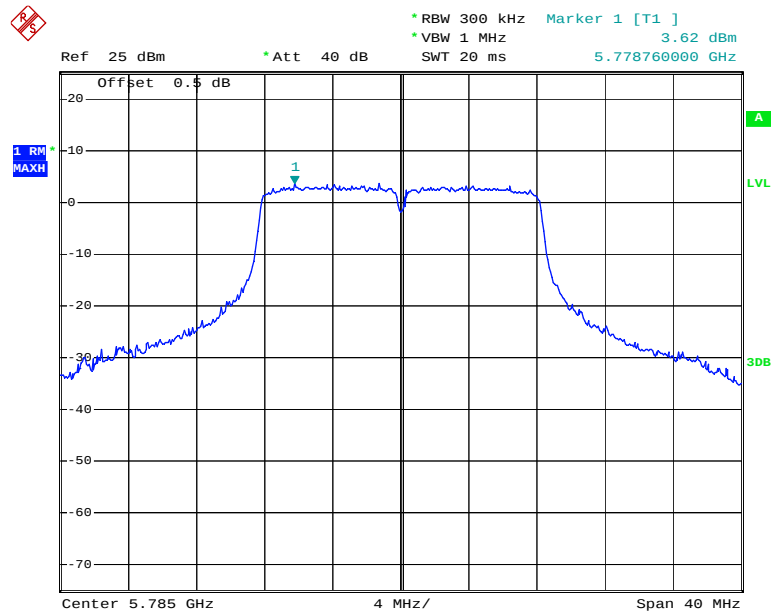
10M High Channel



Date: 22.OCT.2017 16:58:00

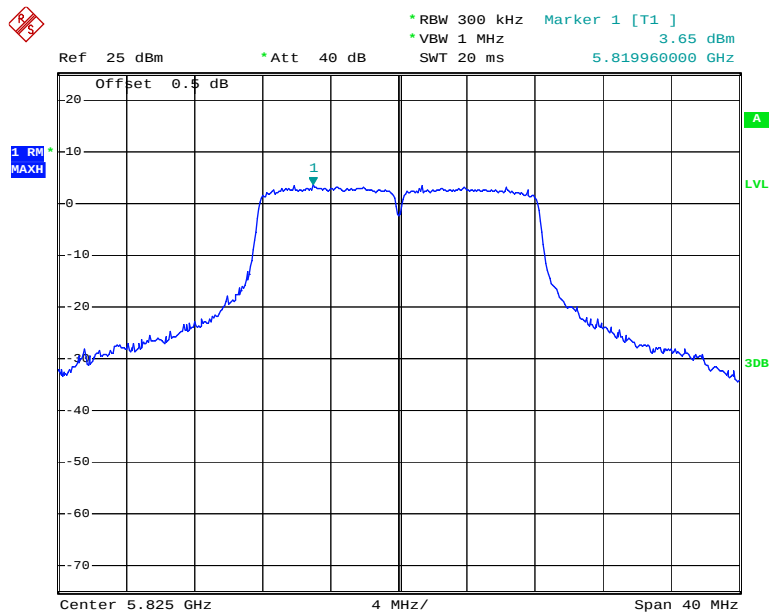
Chain 1:**802.11a Low Channel**

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802.11a Middle Channel

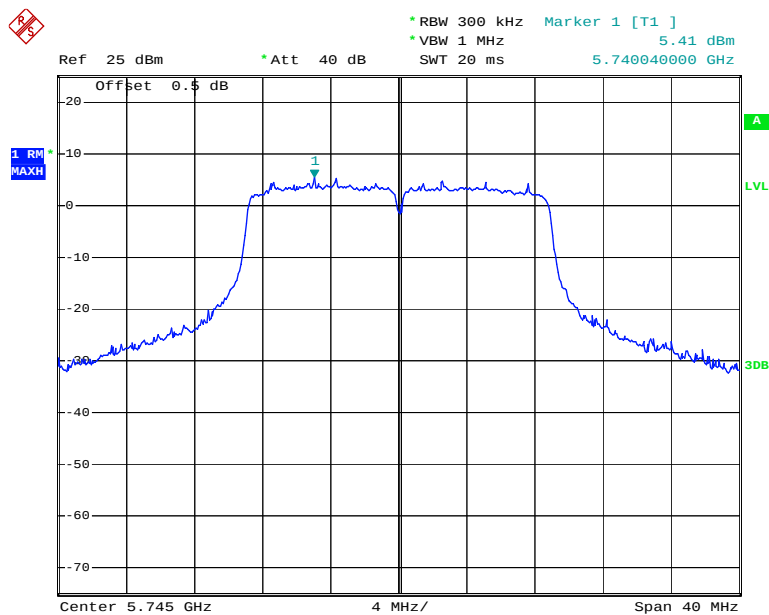
Date: 22.OCT.2017 09:30:18

802.11a High Channel



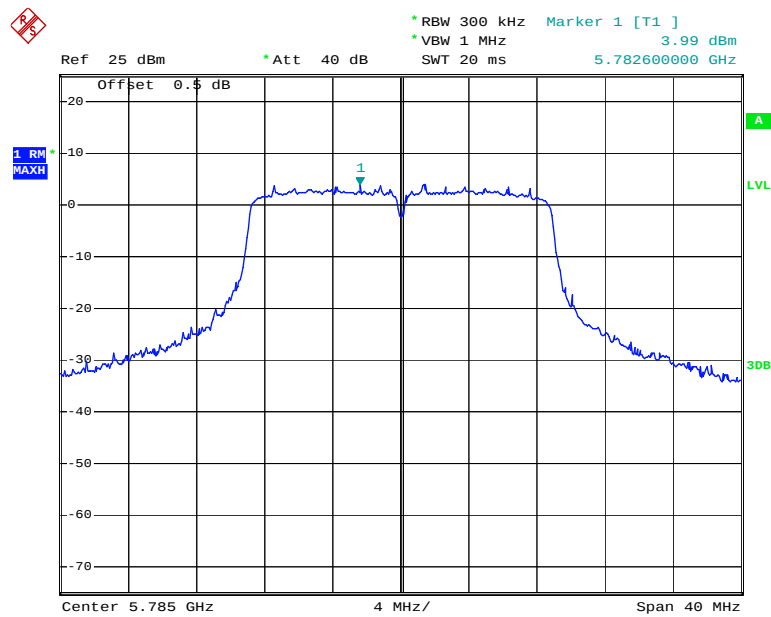
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802.11n ht20 Low Channel



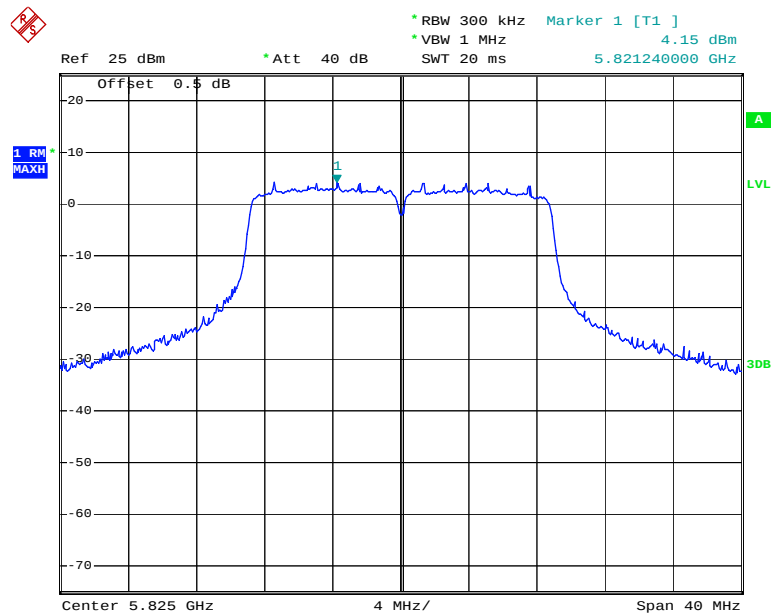
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802.11n ht20 Middle Channel



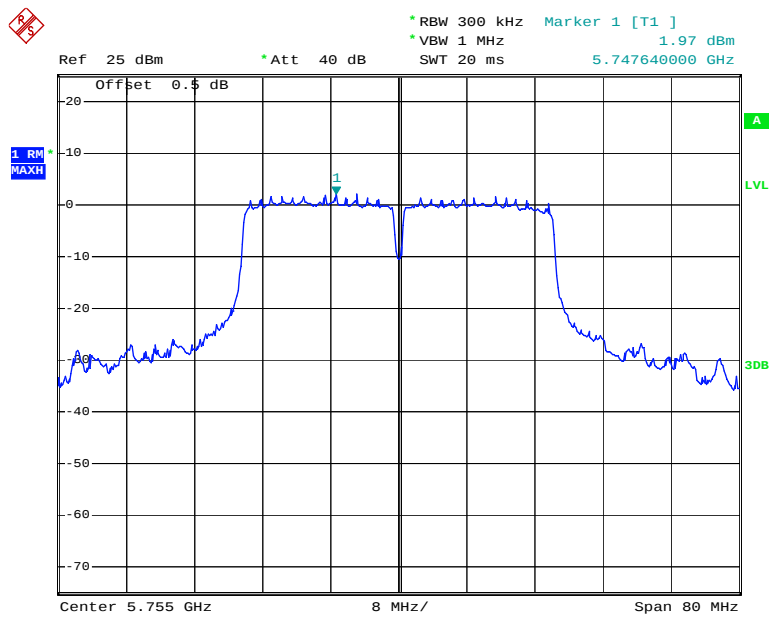
Date: 22.OCT.2017 10:05:17

802.11n ht20 High Channel



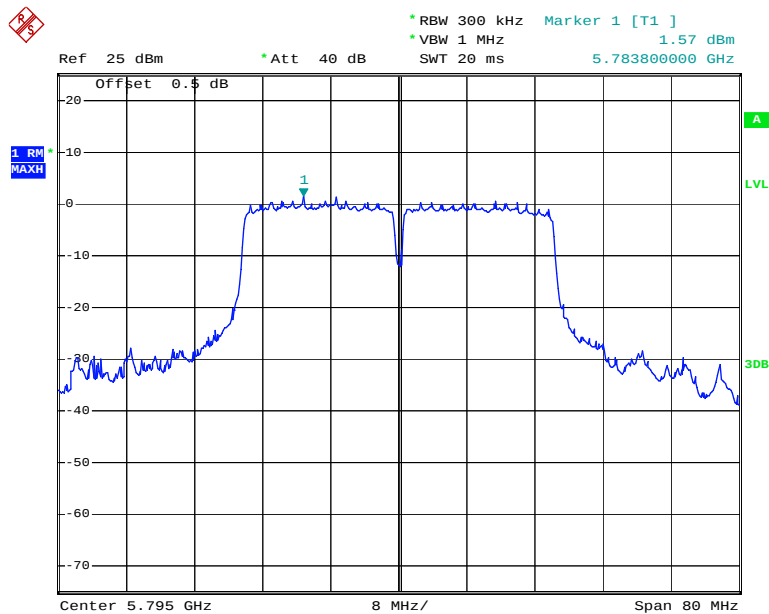
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802.11n ht40 Low Channel



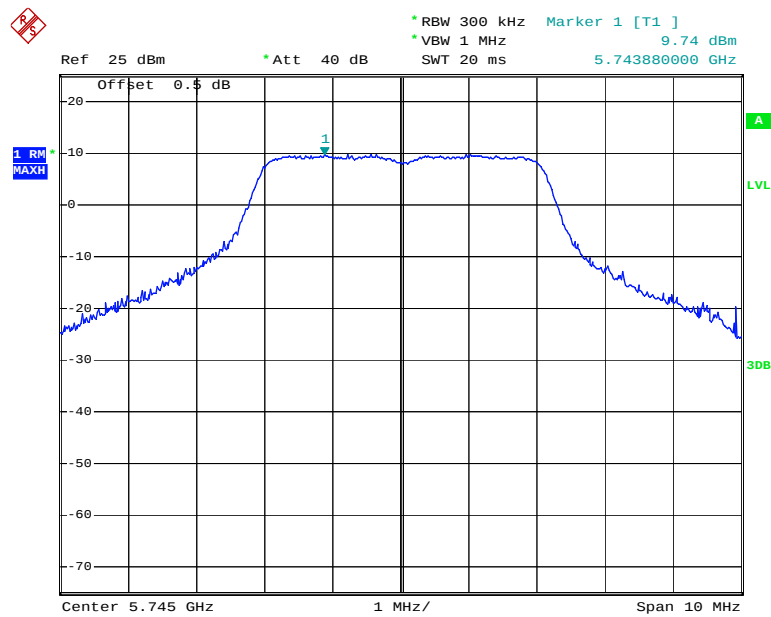
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802.11n ht40 High Channel



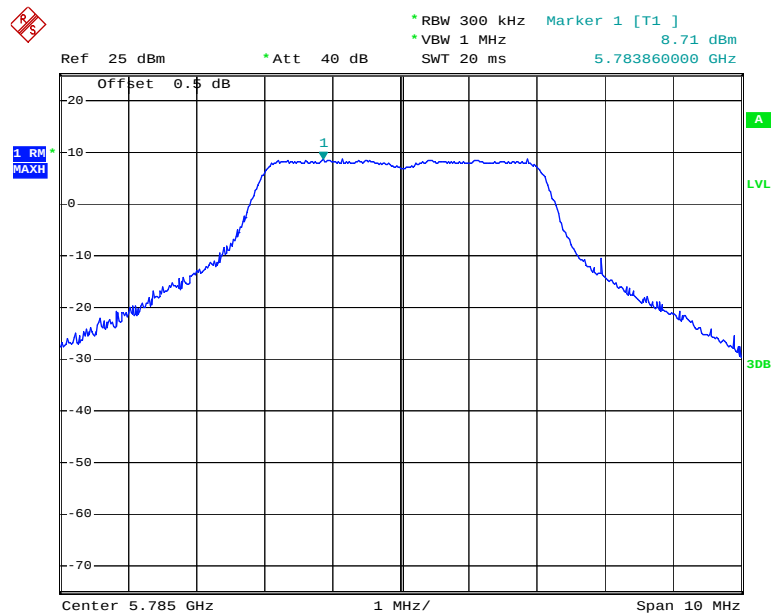
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5M Low Channel



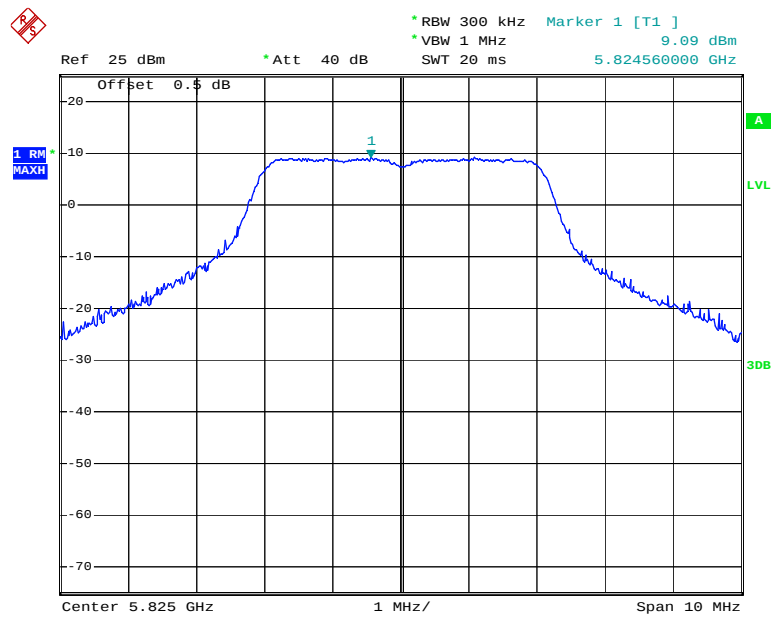
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5M Middle Channel



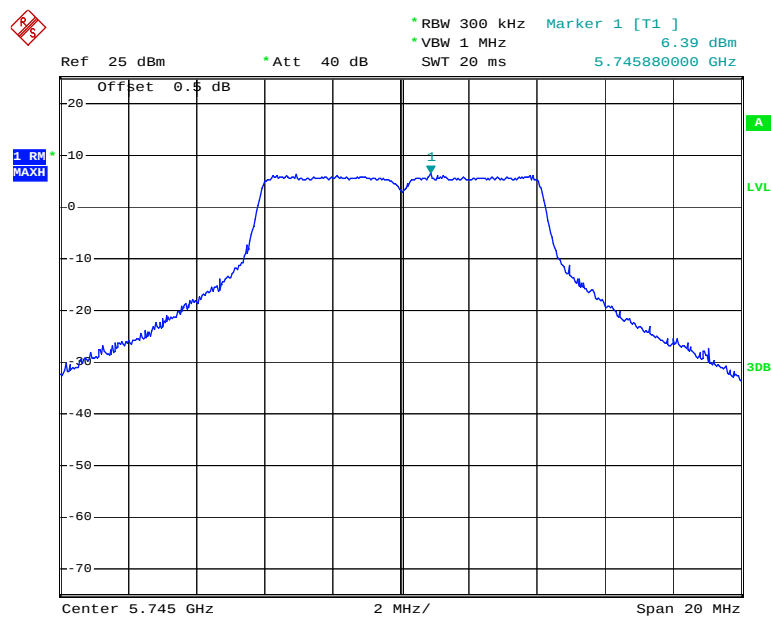
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5M High Channel



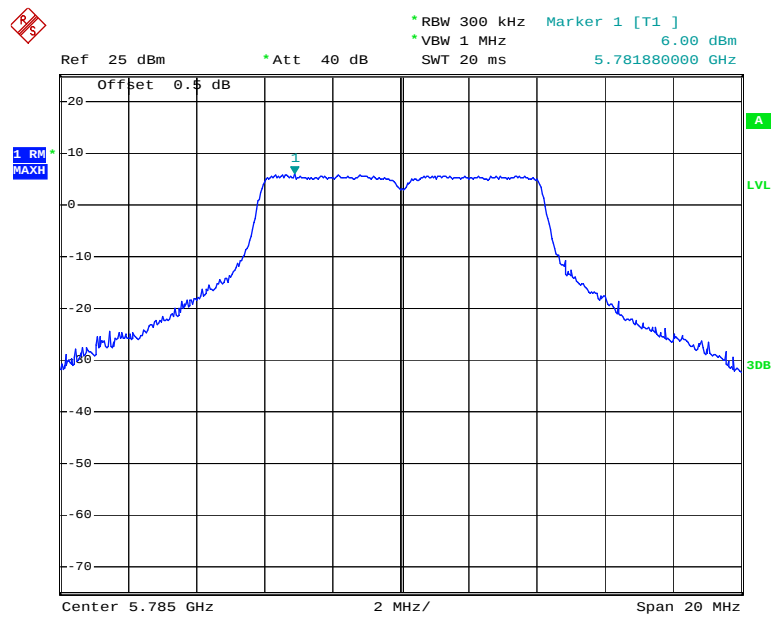
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10M Low Channel



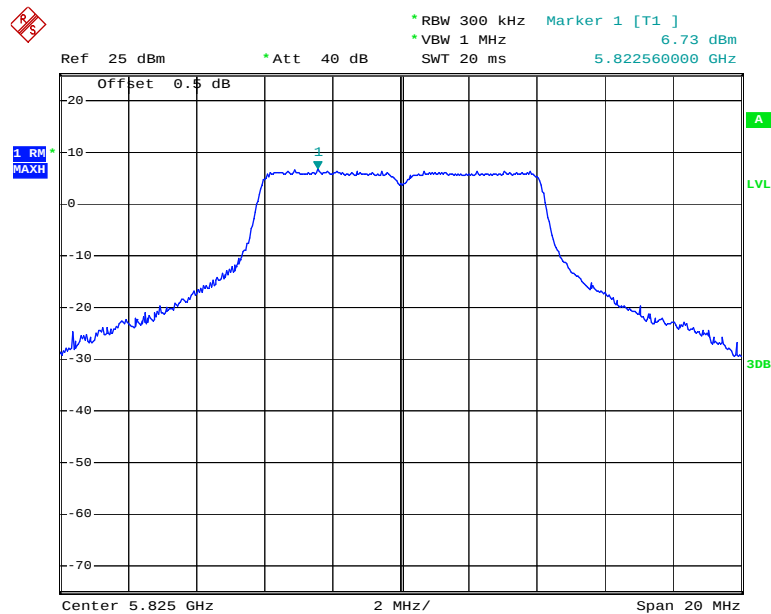
Date: 22.OCT.2017 16:55:57

10M Middle Channel



Date: 22.OCT.2017 16:56:32

10M High Channel



Date: 22.OCT.2017 16:57:03

FCC §15.407(b)& RSS-247 §6.2 – OUT- OF-BAND EMISSIONS

Applicable Standard

FCC §15.407

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 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.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

According to RSS-247§6.2

Frequency band 5150-5250 MHz**6.2.1.2 Unwanted emission limits**

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Frequency band 5250-5350 MHz**6.2.2.2 Unwanted emission limits**

Devices shall comply with the following:

- a) All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or
- b) All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text “for indoor use only.”

Frequency bands 5470-5600 MHz and 5650-5725 MHz:**6.2.3.2 Unwanted emission limits**

Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

Frequency band 5725-5850 MHz**6.2.4.2 Unwanted emission limits**

Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSIQ 26	831929/005	2017-08-31	2018-08-31
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25.1 °C
Relative Humidity:	37 %
ATM Pressure:	101 kPa

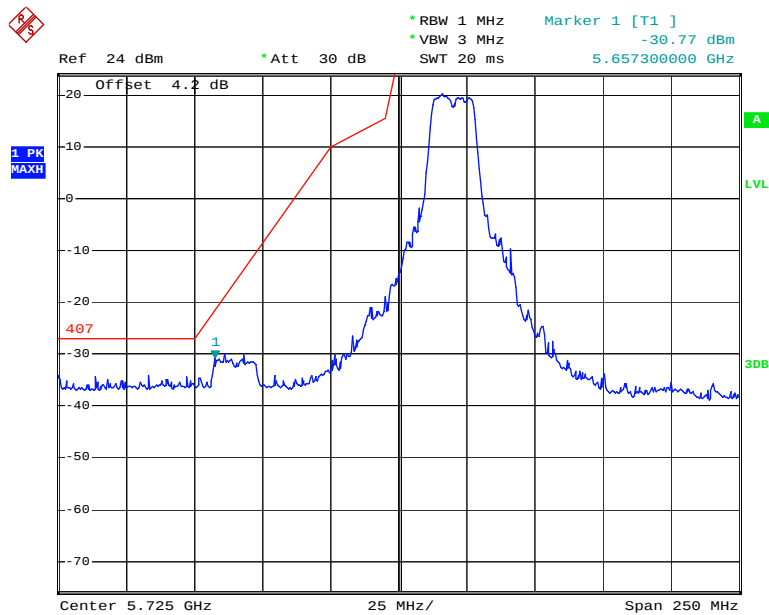
The testing was performed by Harry Yang on 2017-10-22.

Test Result: Pass.

The antenna gain was offset in the display. All emission under limit more than 3dB, so combine two chains meets the requirements. Please refer to the following plots.

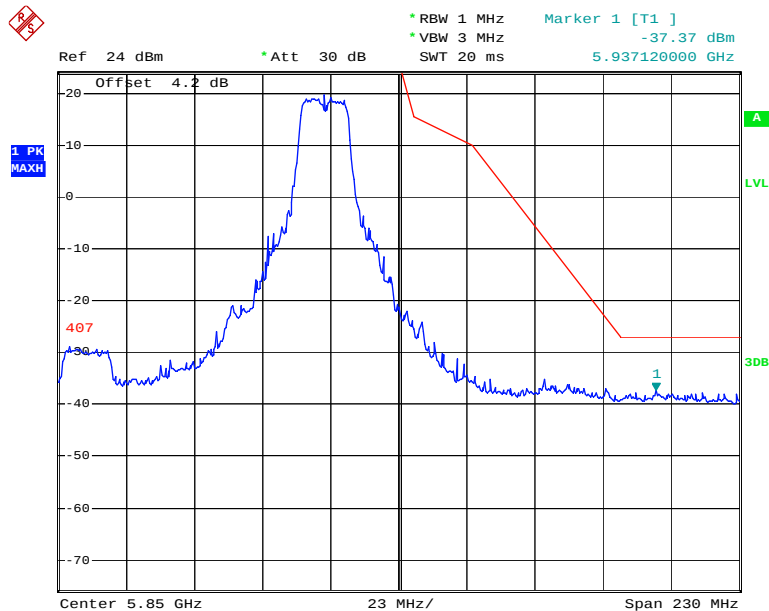
Chain 0:

802.11a Low Channel



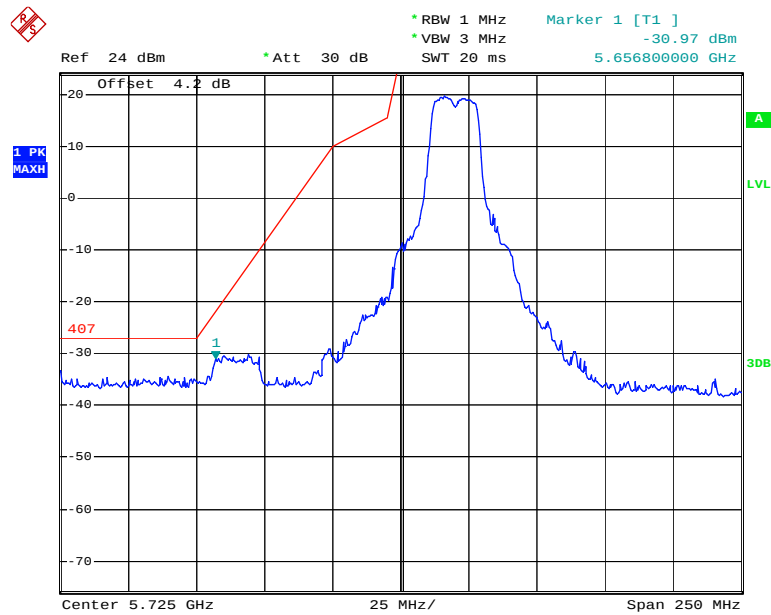
Date: 22.OCT.2017 11:04:10

802.11a High Channel



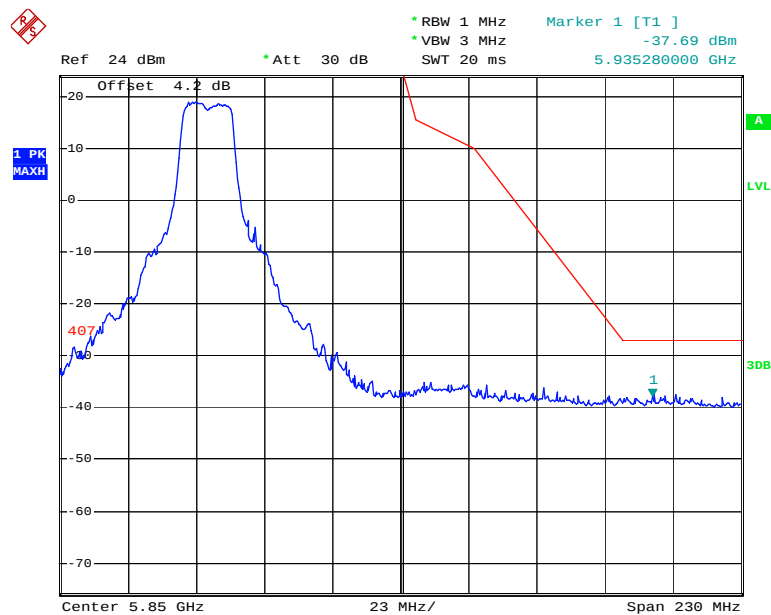
Date: 22.OCT.2017 11:09:14

802.11n ht20 Low Channel



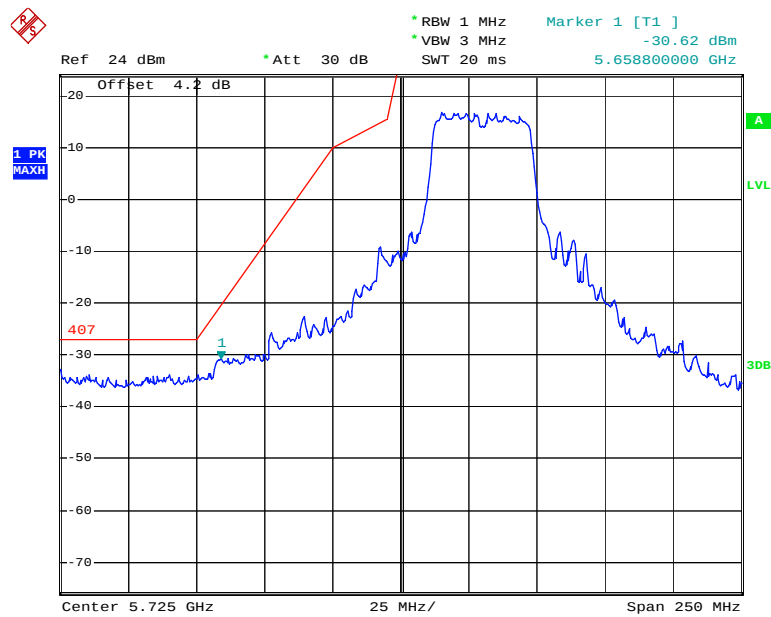
Date: 22.OCT.2017 11:03:11

802.11n ht20 High Channel



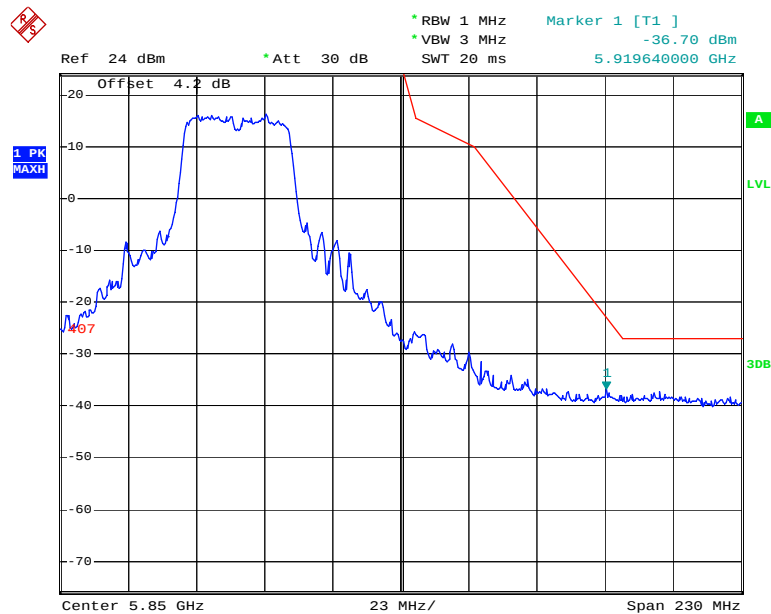
Date: 22.OCT.2017 11:08:05

802.11n ht40 Low Channel



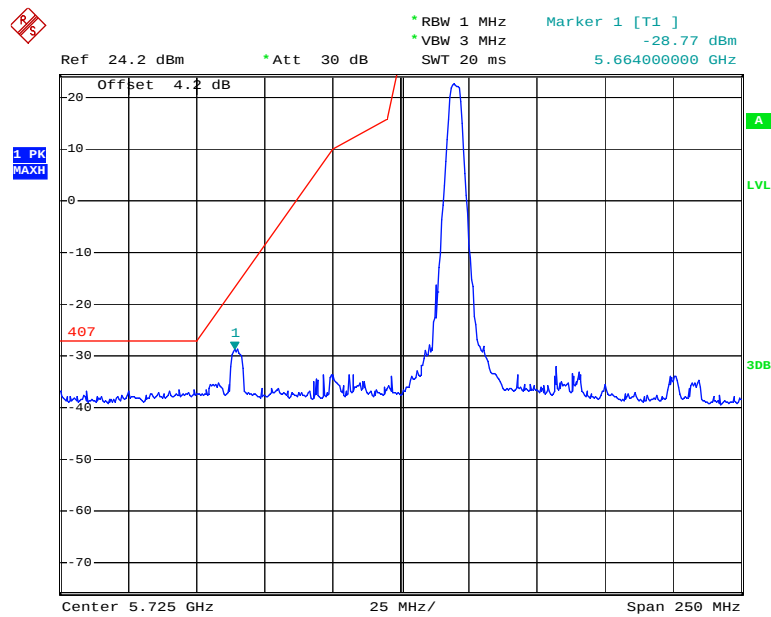
Date: 22.OCT.2017 11:01:38

802.11n ht40 High Channel



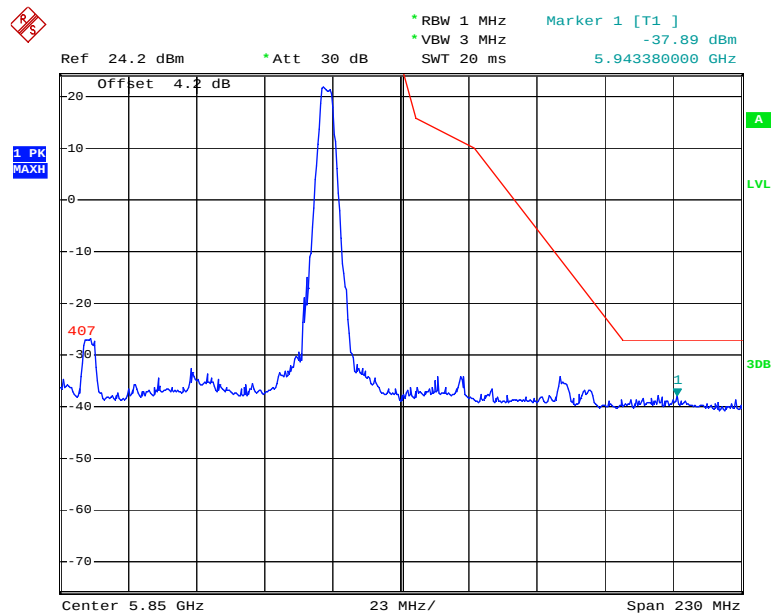
Date: 22.OCT.2017 10:56:46

5M Low Channel



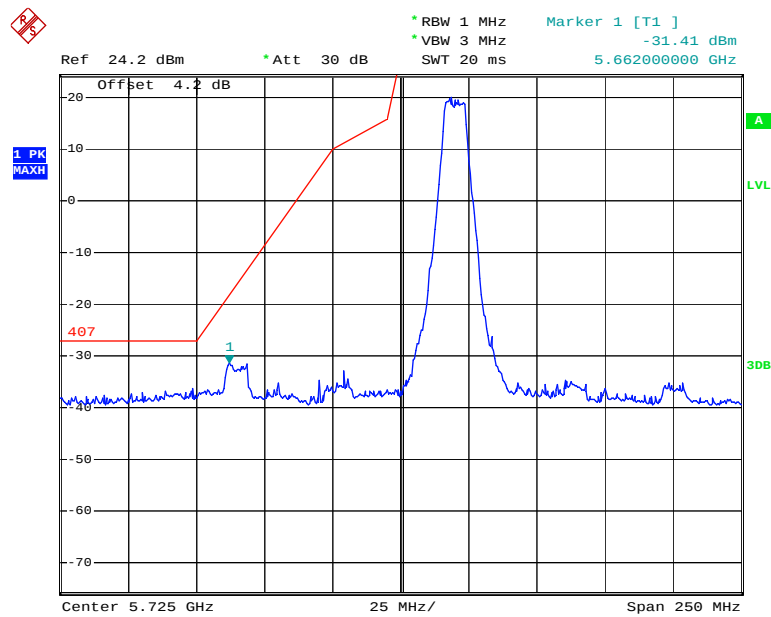
Date: 22.OCT.2017 14:39:55

5M High Channel



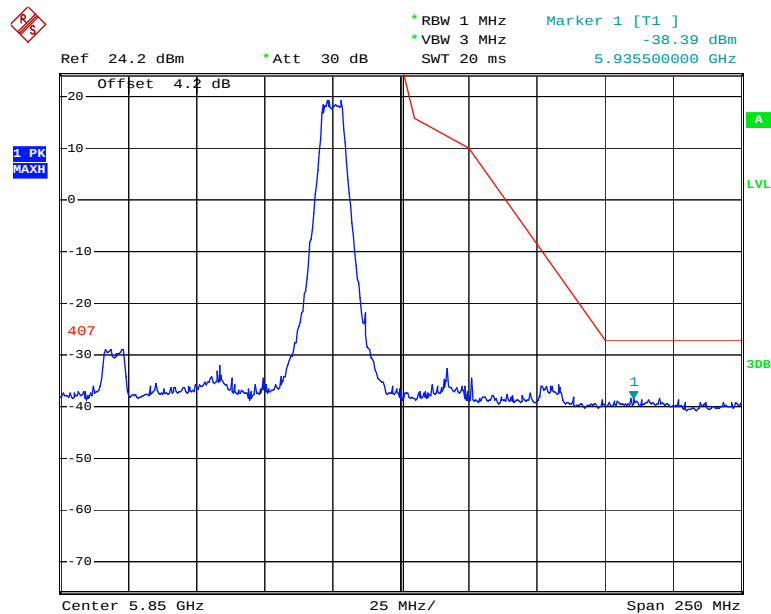
Date: 22.OCT.2017 14:38:10

10M Low Channel



Date: 22.OCT.2017 14:40:35

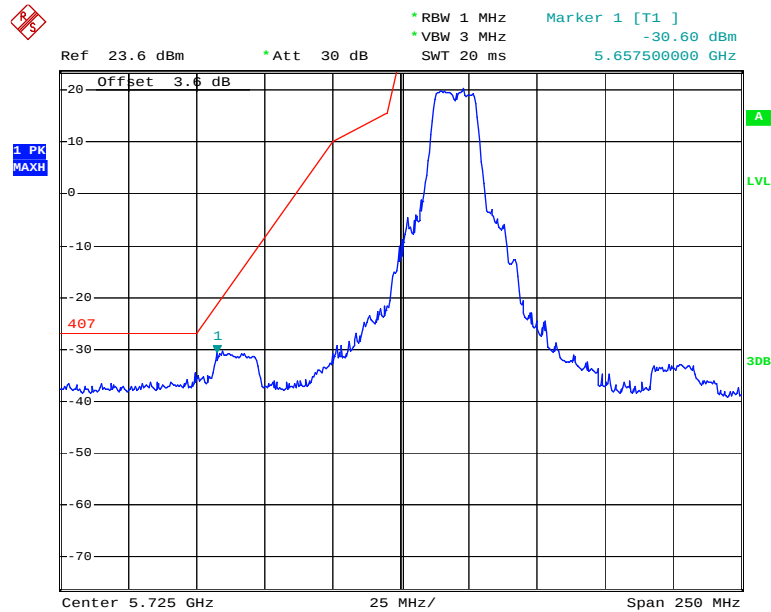
10M High Channel



Date: 22.OCT.2017 14:41:50

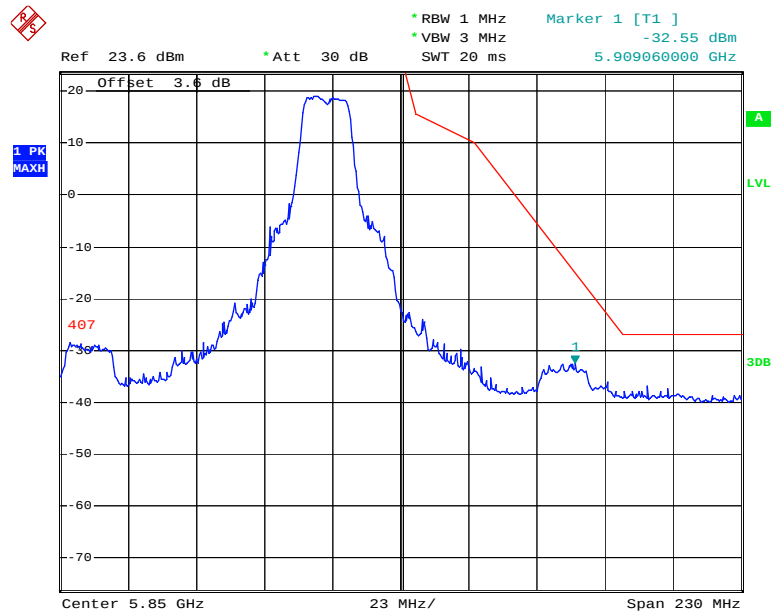
Chain 1:

802.11a Low Channel



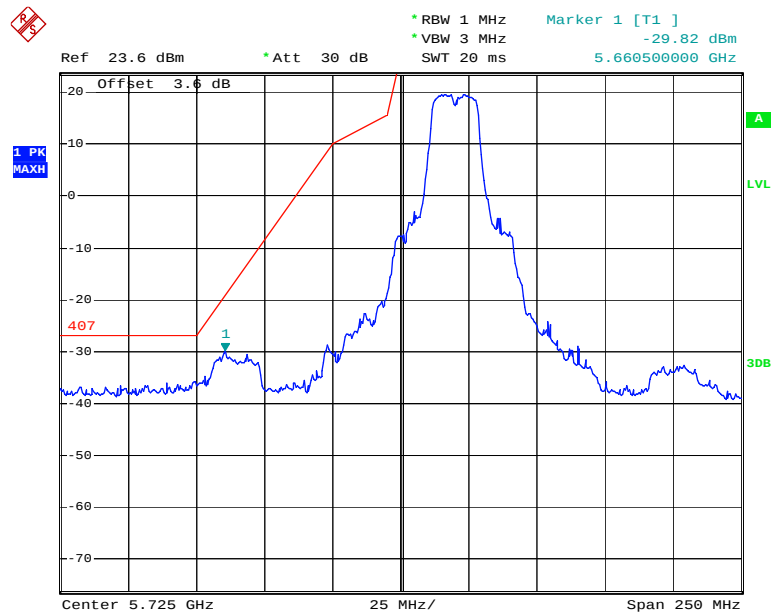
Date: 22.OCT.2017 11:24:06

802.11a High Channel



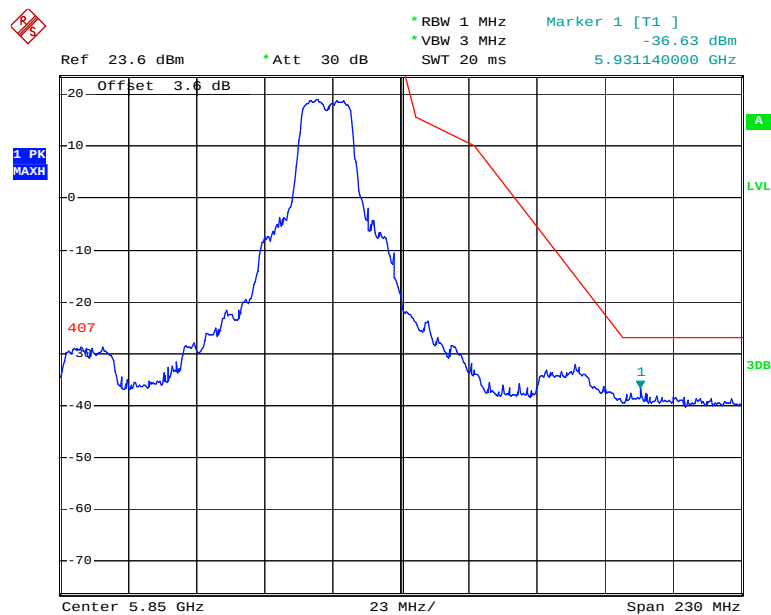
Date: 22.OCT.2017 11:11:28

802.11n ht20 Low Channel



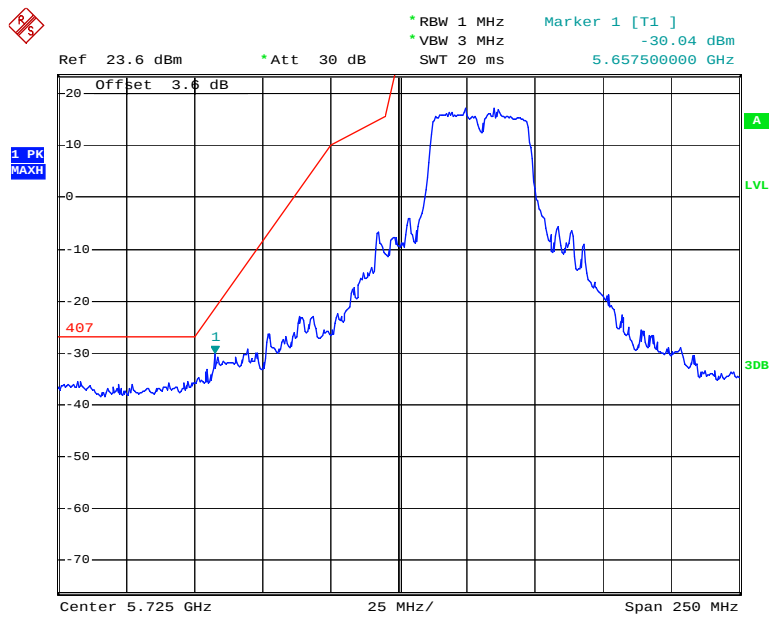
Date: 22.OCT.2017 11:22:28

802.11n ht20 High Channel



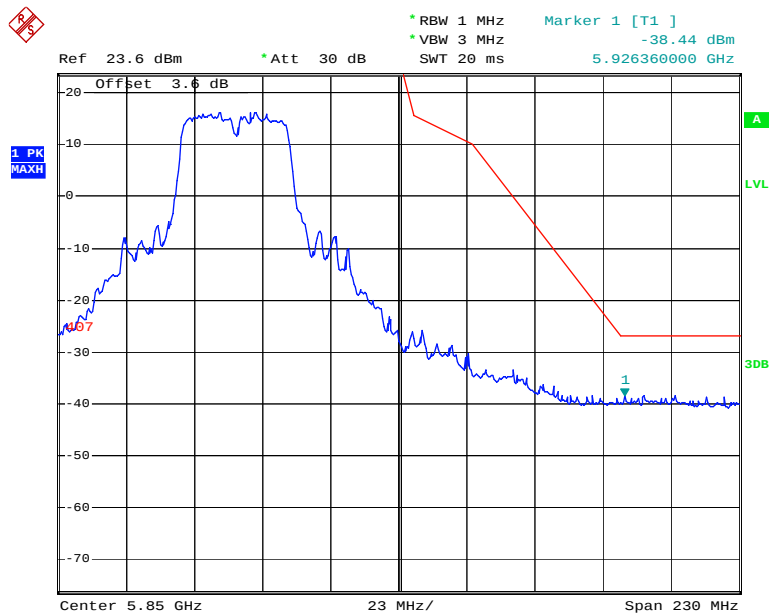
Date: 22.OCT.2017 11:14:18

802.11n ht40 Low Channel



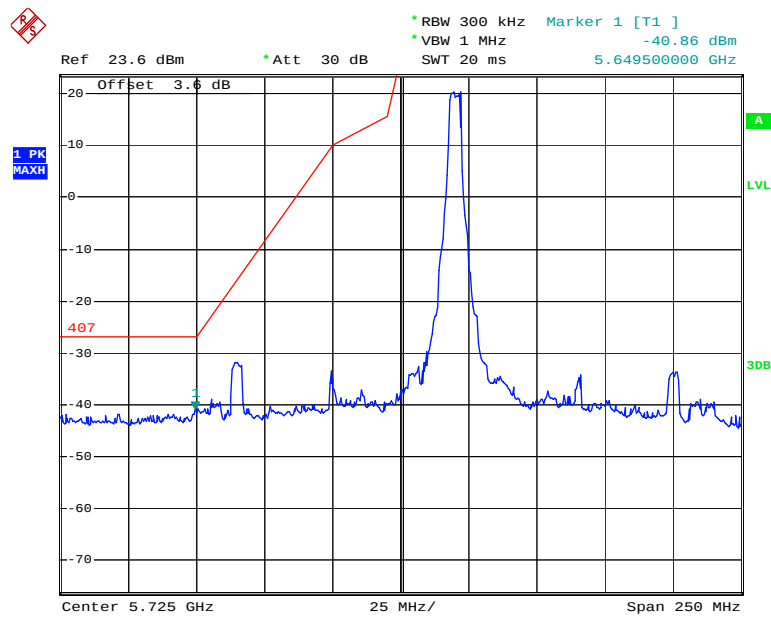
Date: 22.OCT.2017 11:18:27

802.11n ht40 High Channel



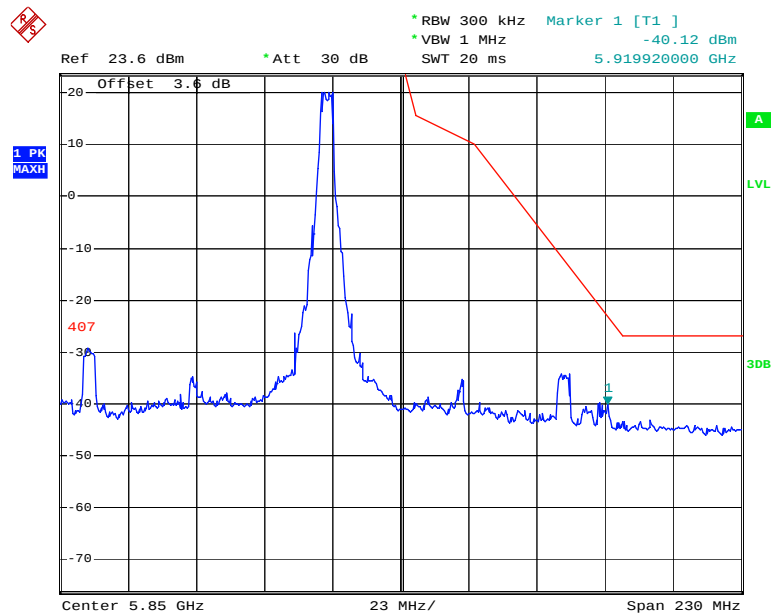
Date: 22.OCT.2017 11:20:17

5M Low Channel



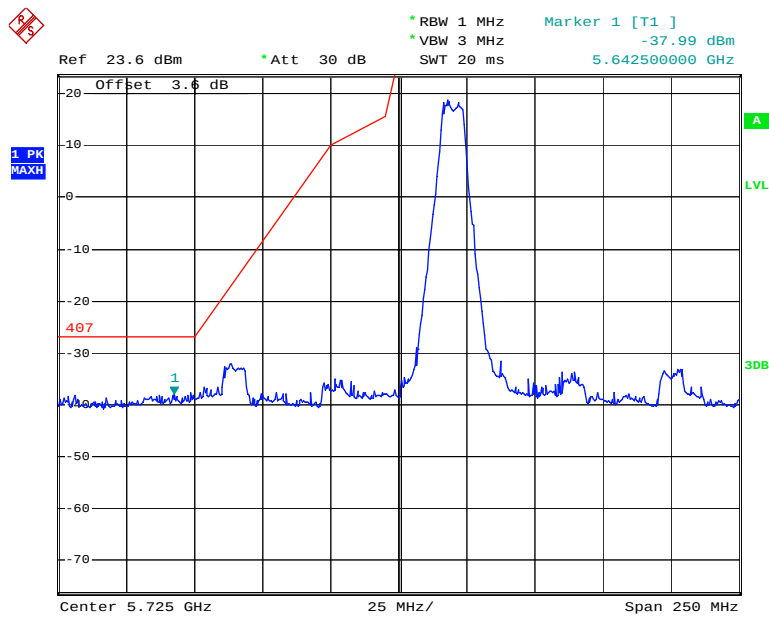
Date: 22.OCT.2017 16:07:20

5M High Channel



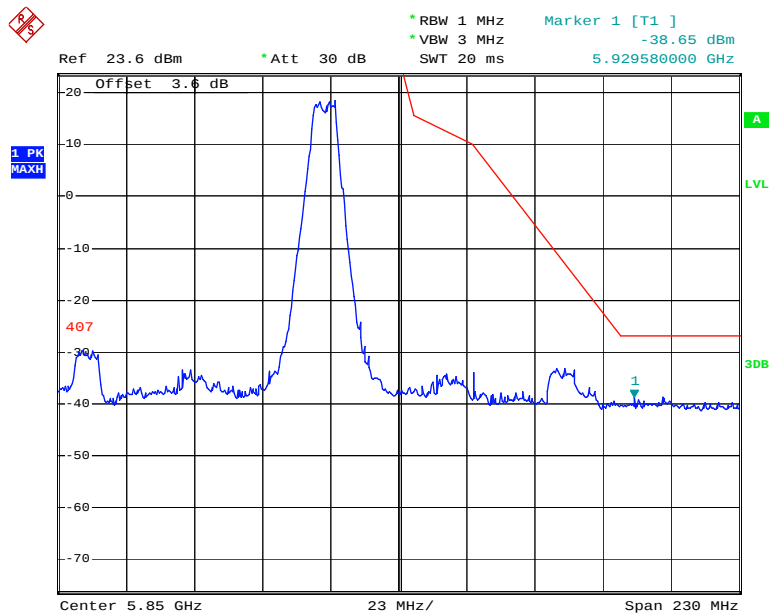
Date: 22.OCT.2017 16:03:51

10M Low Channel



Date: 22.OCT.2017 15:50:59

10M High Channel



Date: 22.OCT.2017 15:50:20

FCC §15.407(g) – FREQUENCY STABILITY**Applicable Standard**

FCC §15.407

(g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Procedure

According to C63.10-2013 clause 6.8.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSIQ 26	831929/005	2017-08-31	2018-08-31
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-4	2017-09-10	2018-09-10
UNI-T	Multimeter	UT39A	M130199938	2017-04-02	2018-04-02
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25.1 °C
Relative Humidity:	37 %
ATM Pressure:	101 kPa

The testing was performed by Harry Yang on 2017-10-22.

Test mode: Transmitting

Test Result: Complaint

5725-5850MHz:

802.11a

Temperature	Voltage	f _L at Low Test Channel	F _H at High Test Channel	Limit
°C	V _{DC}	MHz	MHz	
0	3.7	5736.6201	5833.4402	f _L and f _H Within 5725~5850MHz range
10		5736.6205	5833.4407	
20		5736.6208	5833.4408	
30		5736.6211	5833.4403	
40		5736.6211	5833.4405	
25	3.3	5736.6216	5833.4404	
25	4.2	5736.6214	5833.4407	

802.11n ht20:

Temperature	Voltage	f _L at Low Test Channel	F _H at High Test Channel	Limit
°C	V _{DC}	MHz	MHz	
0	3.7	5735.9805	5833.9805	f _L and f _H Within 5725~5850MHz range
10		5735.9808	5833.9808	
20		5735.9807	5833.9812	
30		5735.9806	5833.9814	
40		5735.9809	5833.9813	
25	3.3	5735.9807	5833.9812	
25	4.2	5735.9807	5833.9815	

802.11n ht40:

Temperature	Voltage	f _L at Low Test Channel	F _H at High Test Channel	Limit
°C	V _{DC}	MHz	MHz	
0	3.7	5736.1191	5814.0612	f _L and f _H Within 5725~5850MHz range
10		5736.1201	5814.0615	
20		5736.1203	5814.0613	
30		5736.1204	5814.0618	
40		5736.1205	5814.0614	
25	3.3	5736.1206	5814.0611	
25	4.2	5736.1207	5814.0615	

5M:

Temperature	Voltage	f _L at Low Test Channel	F _H at High Test Channel	Limit
°C	V _{DC}	MHz	MHz	
0	3.7	5742.8212	5827.2402	f _L and f _H Within 5725~5850MHz range
10		5742.8214	5827.2405	
20		5742.8215	5827.2406	
30		5742.8211	5827.2407	
40		5742.8213	5827.2404	
25	3.3	5742.8214	5827.2402	
25	4.2	5742.8217	5827.2401	

10M:

Temperature	Voltage	f_L at Low Test Channel	F_H at High Test Channel	Limit
°C	V_{DC}	MHz	MHz	
0	3.7	5740.3404	5829.7803	f_L and f_H Within 5725~5850MHz range
10		5740.3403	5829.7805	
20		5740.3406	5829.7807	
30		5740.3407	5829.7806	
40		5740.3404	5829.7804	
25	3.3	5740.3406	5829.7803	
25	4.2	5740.3407	5829.7801	

Note: the f_L and f_H determined by 99% Occupied bandwidth low edge at Low test channel and High edge at High test channel.

***** END OF REPORT *****