FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	DC YunKe Networks Co.,Ltd.
Address	:	6F, building B, no.777, guanggu no.3 road, east lake high-tech development zone, Wuhan China
Equipment under Test	:	Wall AP
Model No.	:	WL8200-WH2
Trade Mark	:	DCN
FCC ID	:	2ARKXWL8200-WH2
Manufacturer	:	DC YunKe Networks Co.,Ltd.
Address	:	6F, building B, no.777, guanggu no.3 road, east lake high-tech development zone, Wuhan China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-89201699, **E-mail:** ddt@dgddt.com, http://www.dgddt.com

REPORT

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TEST REPORT DECLARE

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Test Standard Used: FCC Rules and Regulations Part 15 Subpart E

Test procedure used: ANSI C63.10:2013, 789033 D02 General UNII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-R18101003-1E5		
Date of Receipt:	Oct. 17, 2018	**Date of Test:**	Oct. 17, 2018 ~ Dec. 25, 2018

Prepared By: ***Approved By:***

Ella Gong

Ella Gong/Engineer ***Damon Hu/EMC Manager***

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 25, 2018	

1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	**Standard**	**Results**
6/26db Bandwidth	FCC 15.407 (e)	PASS
Maximum Conducted Output Power	FCC 15.407 (a)	PASS
Power Spectral Density	FCC 15.407 (a)	PASS
Frequency Stability Measurement	FCC 15.407 (g)	PASS
Emissions in restricted frequency bands	FCC 15.407 (a) FCC 15.209 FCC 15.205	PASS
Band Edge Compliance	FCC 15.407 (a) FCC 15.209 FCC 15.205	PASS
Power Line Conducted Emission	FCC 15.207	PASS
Antenna requirement	FCC 15.203	PASS
Dynamic Frequency Selection	FCC 15.407 (h)	N/A
N/A is an abbreviation for Not Applicable.		

2. General test information

2.1. Description of EUT

EUT* Name	:	Wall AP
Model Number	:	WL8200-WH2
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 48V from network switch POE port input DC 48V from AC Adapter
Radio Technology	:	IEEE802.11n/a/ac
Operation frequency	:	IEEE 802.11a: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5755MHz-5795MHz IEEE 802.11ac HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11ac HT40: 5190MHz-5230MHz, 5755MHz-5795MHz IEEE 802.11ac HT80: 5210MHz, 5775MHz
Modulation	:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: up to 150 Mbps, HT40: up to 300 Mbps IEEE 802.11ac VHT20: up to 150 Mbps, VHT40: up to 300 Mbps VHT80: up to 886.7 Mbps
Antenna Type	:	Antenna 1: Internal antenna, maximum PK gain: 3 dBi Antenna 2: Internal antenna, maximum PK gain: 3 dBi The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers(2T2R), two transmit signals are completely uncorrelated, then, Direction gain=GANT
Sample Type	:	Series production

Note: EUT is the ab. of equipment under test.

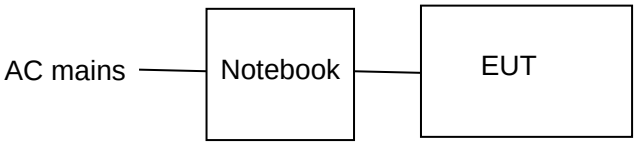
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	DELL	Latitude D610	FCC DOC	00045-534-136-300

2.4. Block diagram of EUT configuration for test



EUT was connected to control provided by manufacturer which has a standard LAN PORT connector connected to Notebook, and the Notebook will run a special test software “QRCT.EXE” to control EUT work in Continuous Tx mode, and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mpbs) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	17	6	Low: CH36	5180
	17	6	Middle: CH40	5200
	17	6	High: CH48	5240
	18	6	Low: CH149	5745
	17	6	Middle: CH157	5785
	17	6	High: CH165	5825
IEEE 802.11n HT20	11	MCS 8	Low: CH36	5180
	12	MCS 8	Middle: CH40	5200
	12	MCS 8	High: CH48	5240
	13	MCS 8	Low: CH149	5745
	13	MCS 8	Middle: CH157	5785
	12	MCS 8	High: CH165	5825
IEEE 802.11n HT40	11	MCS 8	Low: CH36	5190
	11	MCS 8	High: CH44	5230
	11	MCS 8	Low: CH149	5755
	12	MCS 8	High: CH157	5795
IEEE 802.11ac VHT20	12	NSS1 MCS 8	Low: CH36	5180
	12	NSS1 MCS 8	Middle: CH40	5200
	12	NSS1 MCS 8	High: CH48	5240
	12	NSS1 MCS 8	Low: CH149	5745
	13	NSS1 MCS 8	Middle: CH157	5785
	13	NSS1 MCS 8	High: CH165	5825
IEEE 802.11ac VHT40	12	NSS1 MCS 8	Low: CH36	5190
	12	NSS1 MCS 8	High: CH44	5230
	13	NSS1 MCS 8	Low: CH149	5755
	13	NSS1 MCS 8	High: CH157	5795
IEEE 802.11ac VHT80	11	NSS1 MCS 8	CH36	5210
	12	NSS1 MCS 8	CH149	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-89201699, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

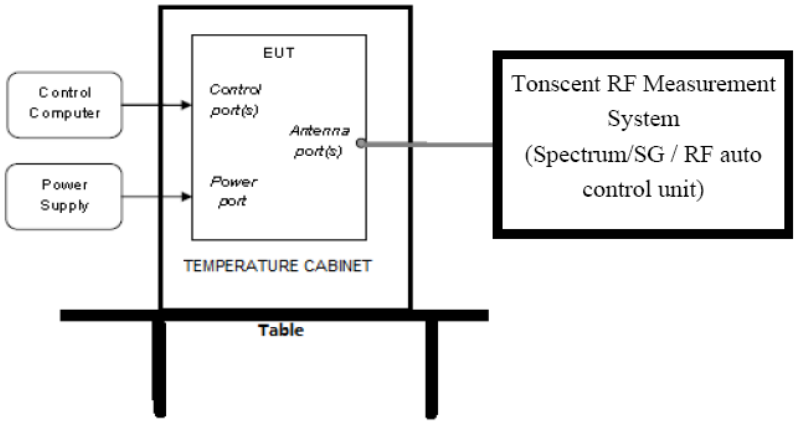
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted)(Spectrum analyzer)	0.86dB (10 MHz ≤ f < 3.6GHz);
	1.38dB (3.6GHz ≤ f < 8GHz)
Peak Output Power (Conducted)(Power Sensor)	0.74dB
Power Spectral Density	0.74dB (10 MHz ≤ f < 3.6GHz);
	1.38dB (3.6GHz ≤ f < 8GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86dB (10 MHz ≤ f < 3.6GHz);
	1.40dB (3.6GHz ≤ f < 8GHz)
	1.66dB (8GHz≤ f < 22GHz)
Uncertainty for radio frequency (RBW<20kHz)	3×10^{-8}
Temperature	0.4℃
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-40GHz)	4.10dB (1-6GHz)
	4.40dB (6GHz-18GHz)
	3.54dB (18GHz-26GHz)
	4.30dB (26GHz-40GHz)
Uncertainty for Power line conduction emission test	3.32dB (150kHz-30MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (Tonscend RF Measurement System)					
Spectrum analyzer	R&S	FSU26	200071	Oct. 12, 2018	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 29, 2018	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 12, 2018	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 29, 2018	1 Year
Power Sensor	Agilent	U2021XA	MY55150010	Oct. 21, 2018	1 Year
Power Sensor	Agilent	U2021XA	MY55150011	Oct. 23, 2018	1 Year
DC Power Source	Ouyuan electronic technology co., LTD	ADC50-20	990406	Oct. 12, 2018	1 Year
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2018	1 Year
RF Cable	Micable	C10-01-01-1	100309	Oct. 21, 2018	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Oct. 21, 2018	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A
Radiation 1#chamber					
EMI Test Receiver	R&S	ESU8	100316	Oct. 12, 2018	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 29, 2018	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 09, 2018	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 20, 2018	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Nov. 16, 2018	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Oct. 25, 2018	1 Year
Pre-amplifier	TERA-MW	TRLA-0040G35	101303	Oct. 12, 2018	1 Year
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Oct. 21, 2018	1 Year
RF Cable	N/A	SMAJ-SMAJ-1M+ 11M	17070133+17070131	Nov. 08, 2018	1 Year
MI Cable	HUBSER	C10-01-01-1M	1091629	Oct. 21, 2018	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESU8	100316	Oct. 12, 2018	1 Year
LISN 1	R&S	ENV216	101109	Oct. 12, 2018	1 Year
LISN 2	R&S	ESH2-Z5	100309	Oct. 12, 2018	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 12, 2018	1 Year
CE Cable 1	HUBSER	ESU8/RF2	W10.01	Oct. 12, 2018	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 6/26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth: RBW=100kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6dB Bandwidth: VBW=300kHz For 26dB Bandwidth: >3RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB or 6dB relative to the maximum level measured in the fundamental emission.

4.4. Test Result

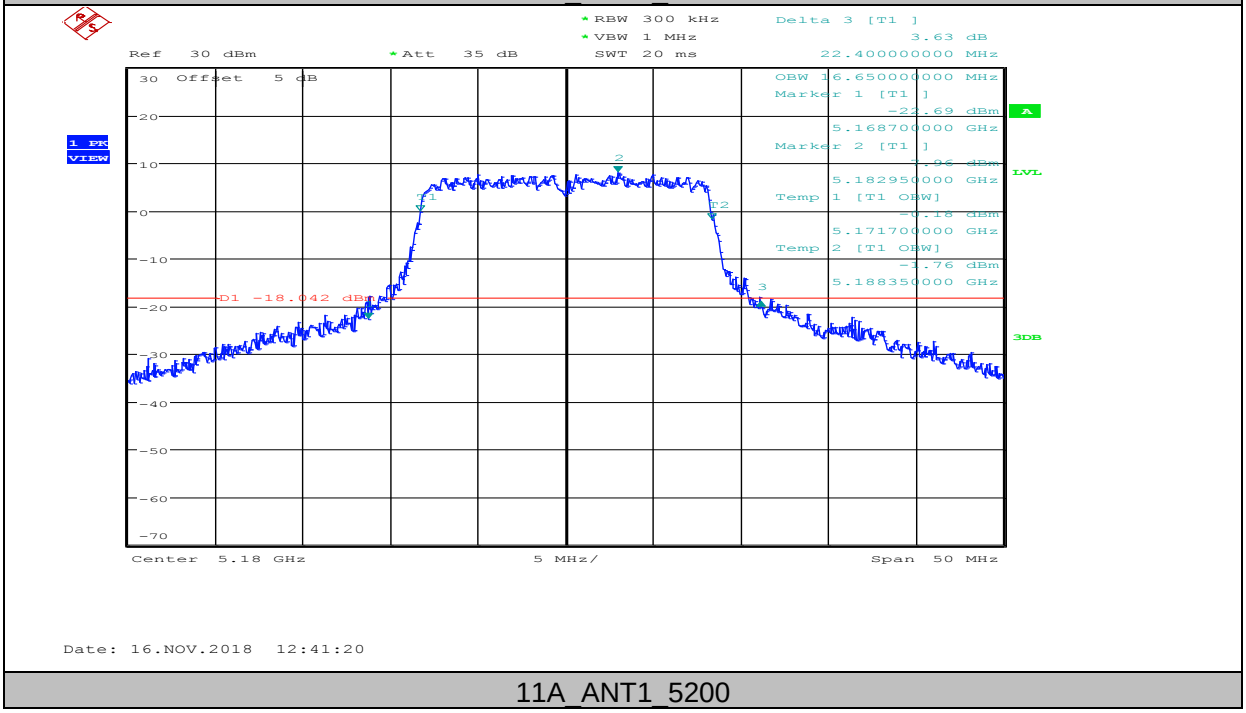
Test Mode	Antenna	Test Channel [MHz]	EBW[MHz]	Limit [MHz]	Verdict
11A	ANT1	5180	22.400	---	PASS
11A	ANT1	5200	21.850	---	PASS
11A	ANT1	5240	21.800	---	PASS
11N20MIMO	ANT1	5180	23.050	---	PASS
11N20MIMO	ANT2	5180	22.800	---	PASS
11N20MIMO	ANT1	5200	22.700	---	PASS
11N20MIMO	ANT2	5200	22.500	---	PASS
11N20MIMO	ANT1	5240	23.150	---	PASS
11N20MIMO	ANT2	5240	22.600	---	PASS
11N40MIMO	ANT1	5190	46.000	---	PASS
11N40MIMO	ANT2	5190	45.700	---	PASS
11N40MIMO	ANT1	5230	45.400	---	PASS
11N40MIMO	ANT2	5230	45.700	---	PASS
11AC20MIMO	ANT1	5180	23.550	---	PASS
11AC20MIMO	ANT2	5180	23.500	---	PASS
11AC20MIMO	ANT1	5200	23.100	---	PASS
11AC20MIMO	ANT2	5200	22.850	---	PASS
11AC20MIMO	ANT1	5240	21.950	---	PASS
11AC20MIMO	ANT2	5240	22.200	---	PASS
11AC40MIMO	ANT1	5190	46.500	---	PASS
11AC40MIMO	ANT2	5190	46.200	---	PASS
11AC40MIMO	ANT1	5230	45.600	---	PASS
11AC40MIMO	ANT2	5230	46.600	---	PASS
11AC80MIMO	ANT1	5210	96.400	---	PASS
11AC80MIMO	ANT2	5210	90.200	---	PASS

Test Mode	Antenna	Test Channel [MHz]	EBW[MHz]	Limit [MHz]	Verdict
11A	ANT1	5745	16.400	0.5	PASS
11A	ANT1	5785	16.400	0.5	PASS
11A	ANT1	5825	16.150	0.5	PASS
11N20MIMO	ANT1	5745	17.700	0.5	PASS
11N20MIMO	ANT2	5745	17.250	0.5	PASS
11N20MIMO	ANT1	5785	17.750	0.5	PASS
11N20MIMO	ANT2	5785	17.650	0.5	PASS
11N20MIMO	ANT1	5825	17.700	0.5	PASS
11N20MIMO	ANT2	5825	17.700	0.5	PASS

11N40MIMO	ANT1	5755	36.300	0.5	PASS
11N40MIMO	ANT2	5755	36.000	0.5	PASS
11N40MIMO	ANT1	5795	35.800	0.5	PASS
11N40MIMO	ANT2	5795	35.800	0.5	PASS
11AC20MIMO	ANT1	5745	17.800	0.5	PASS
11AC20MIMO	ANT2	5745	16.400	0.5	PASS
11AC20MIMO	ANT1	5785	17.700	0.5	PASS
11AC20MIMO	ANT2	5785	17.800	0.5	PASS
11AC20MIMO	ANT1	5825	17.700	0.5	PASS
11AC20MIMO	ANT2	5825	17.800	0.5	PASS
11AC40MIMO	ANT1	5755	36.500	0.5	PASS
11AC40MIMO	ANT2	5755	35.900	0.5	PASS
11AC40MIMO	ANT1	5795	35.600	0.5	PASS
11AC40MIMO	ANT2	5795	36.500	0.5	PASS
11AC80MIMO	ANT1	5775	74.800	0.5	PASS
11AC80MIMO	ANT2	5775	70.400	0.5	PASS

4.5. Original test data

11A_ANT1_5180



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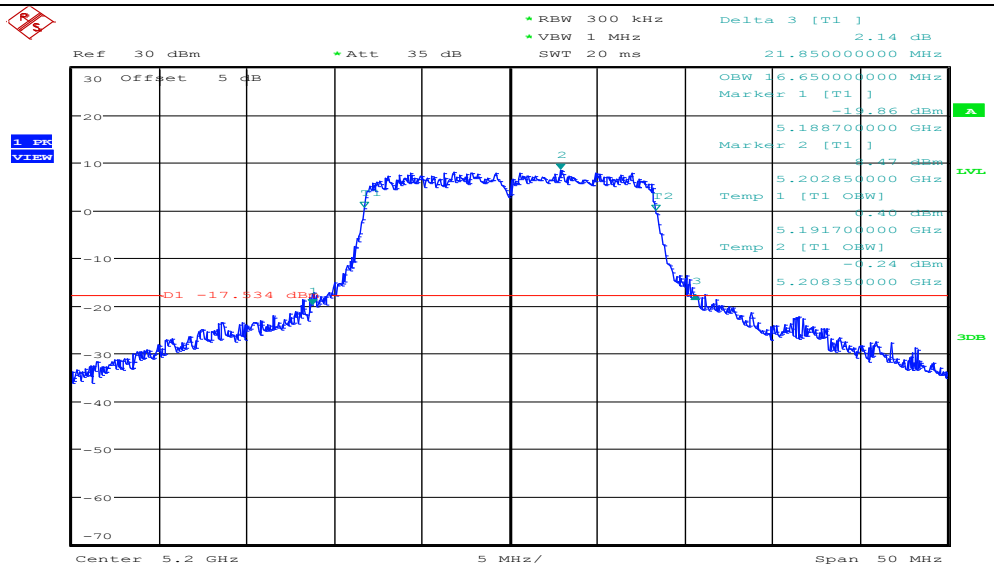

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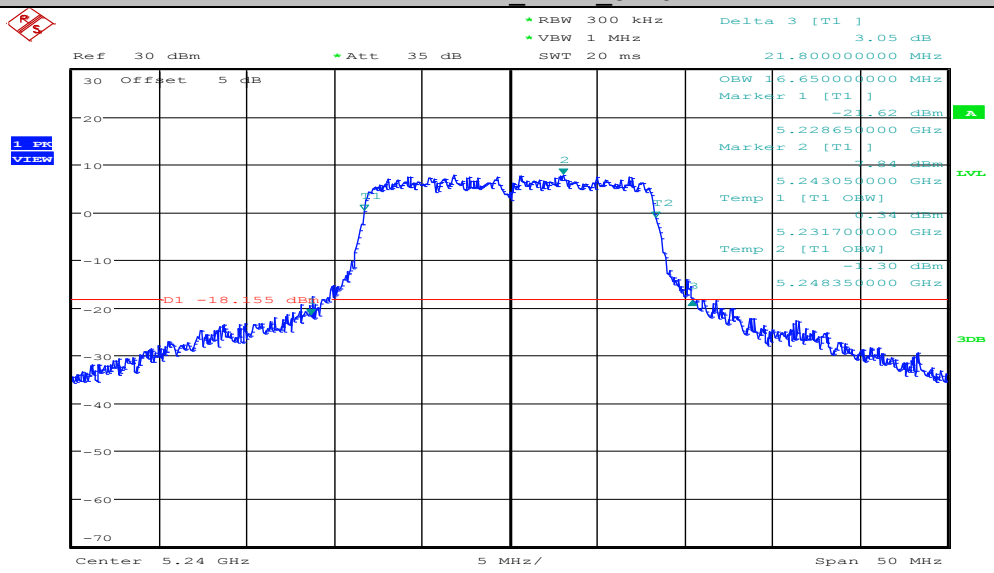

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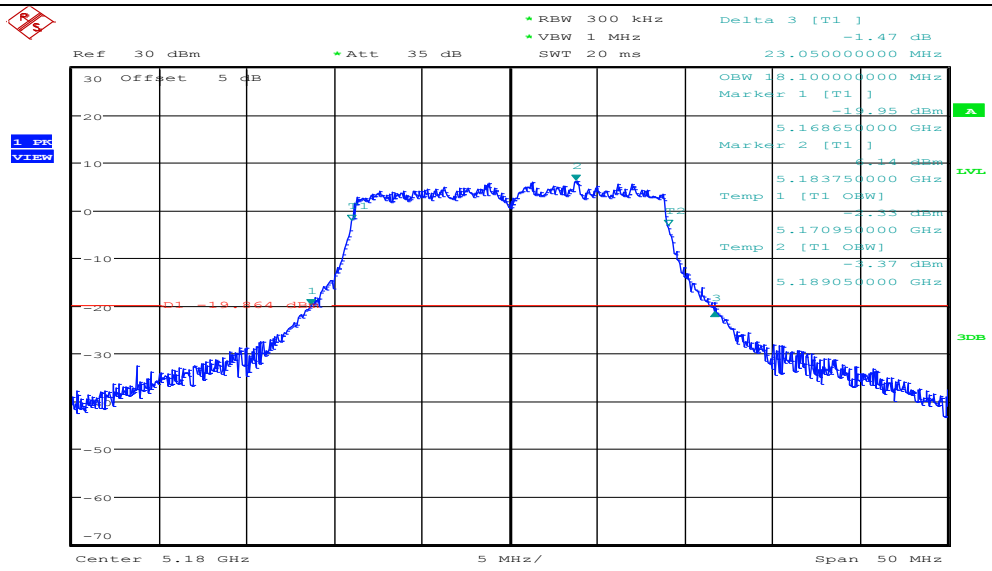

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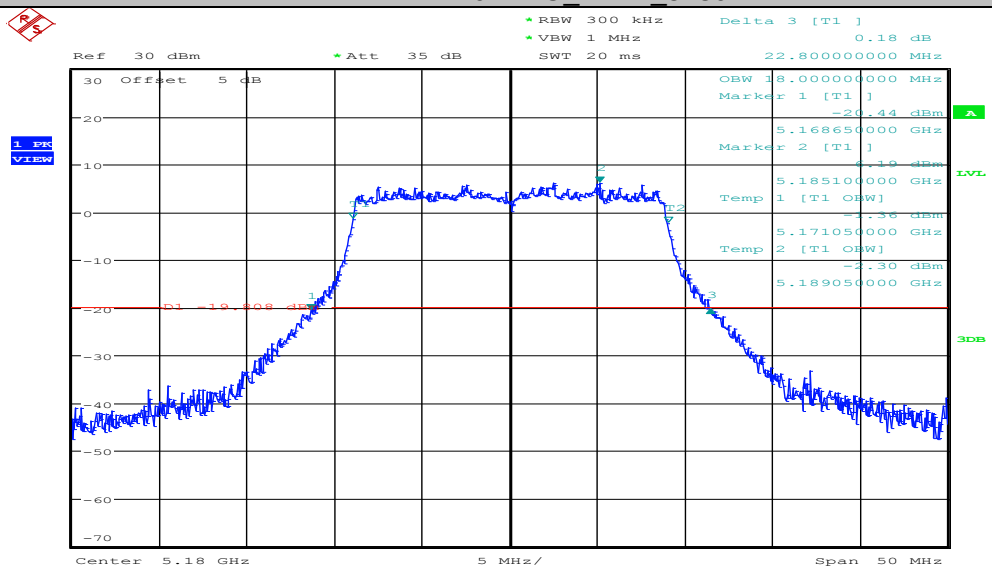

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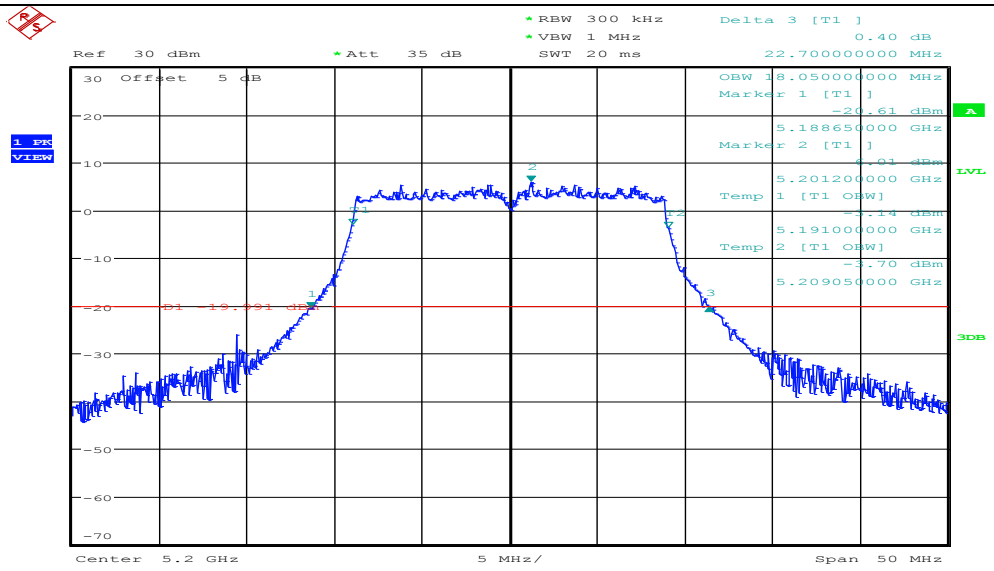

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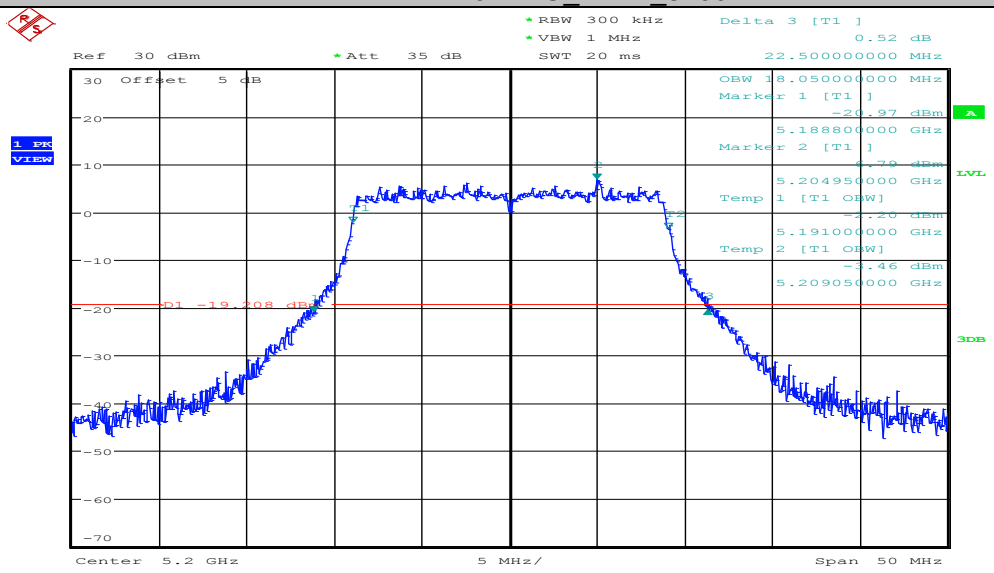

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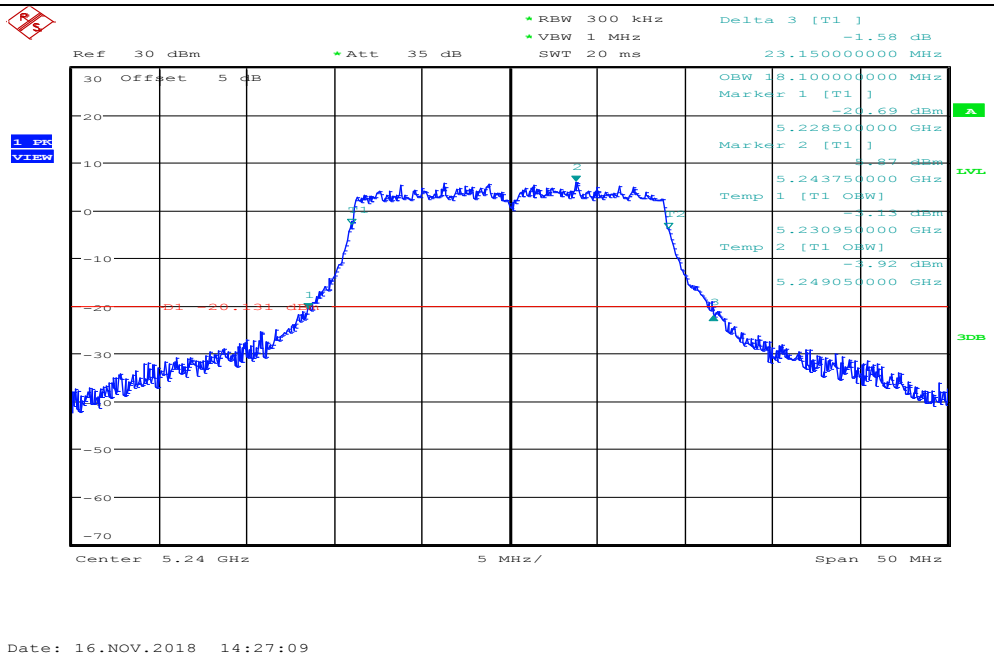

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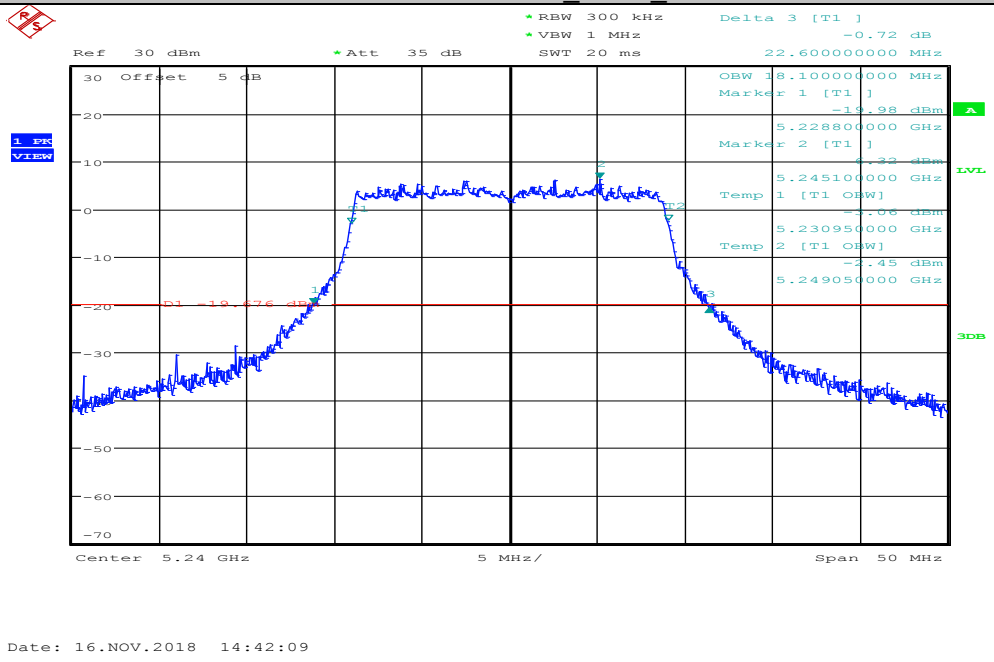

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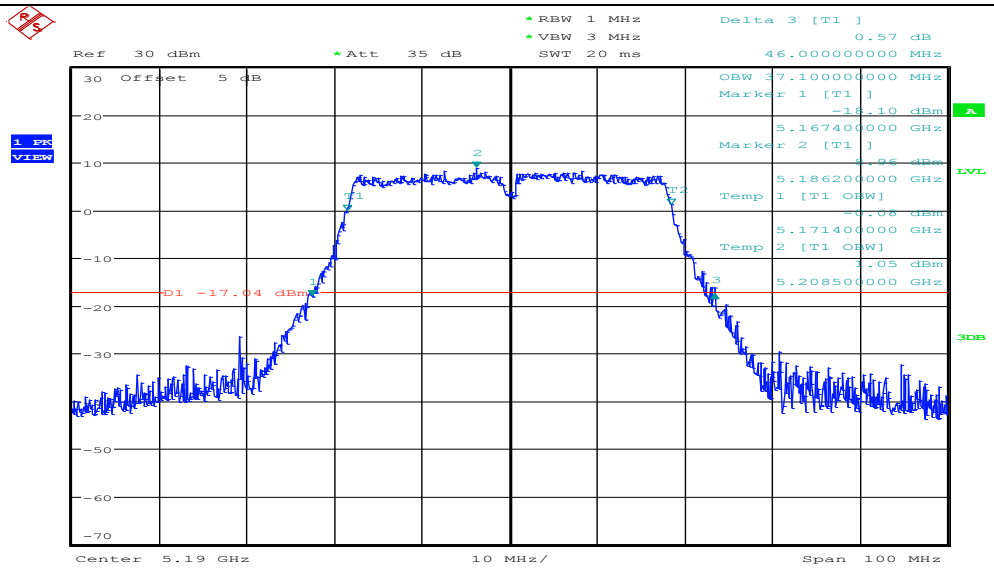

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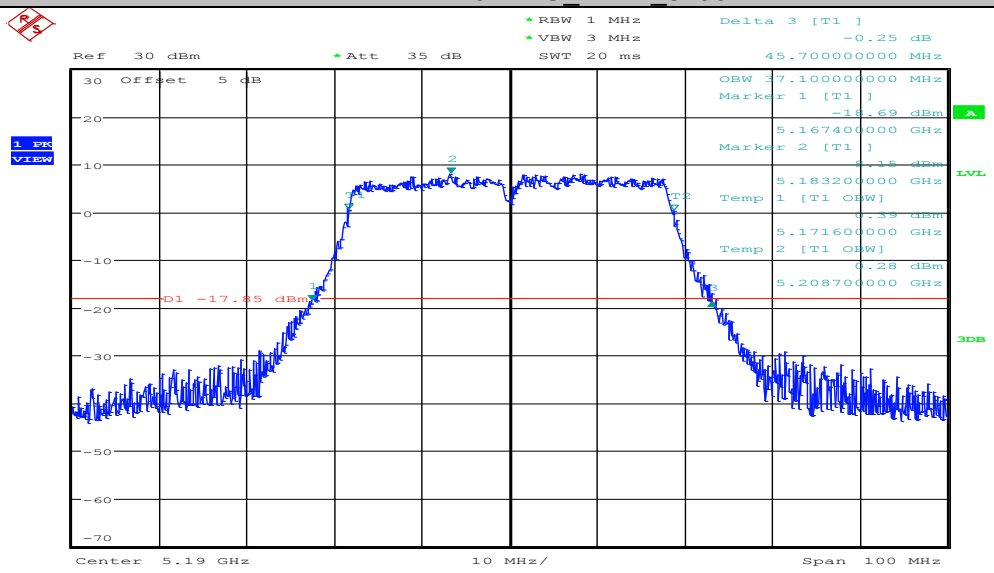

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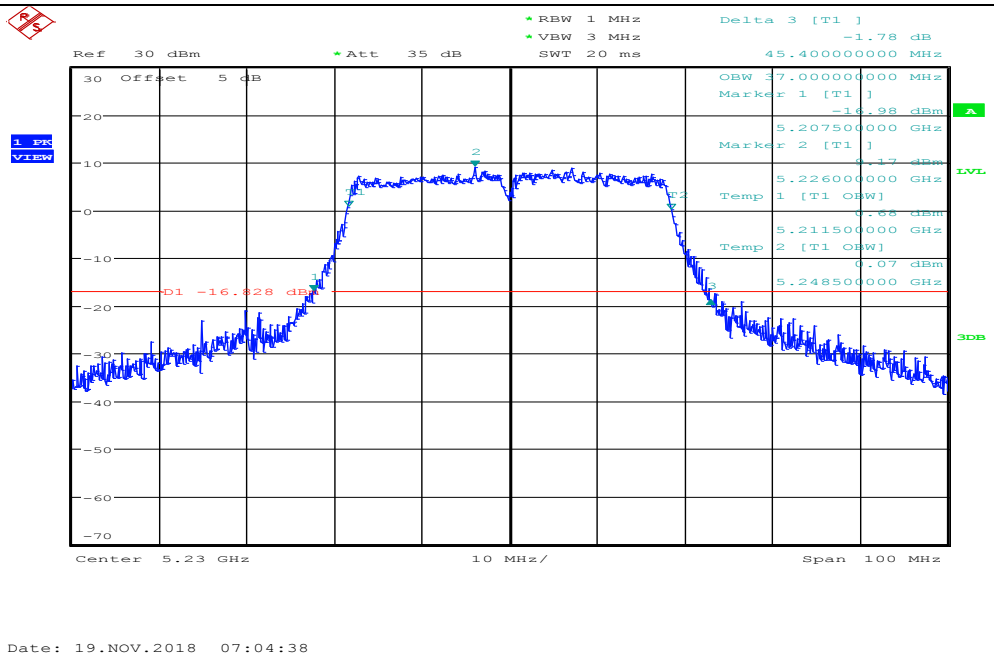

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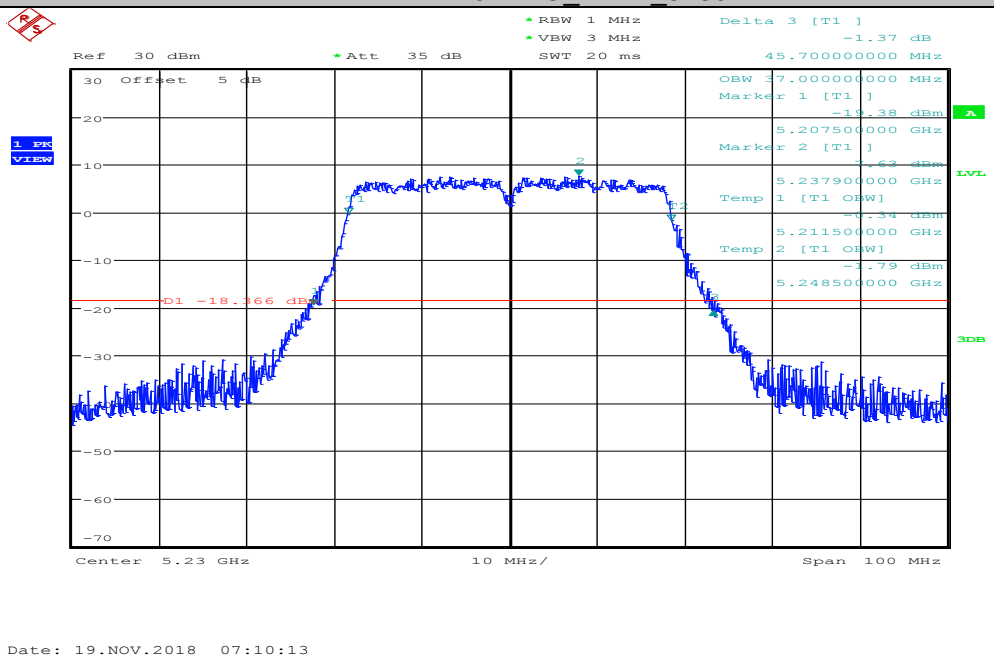

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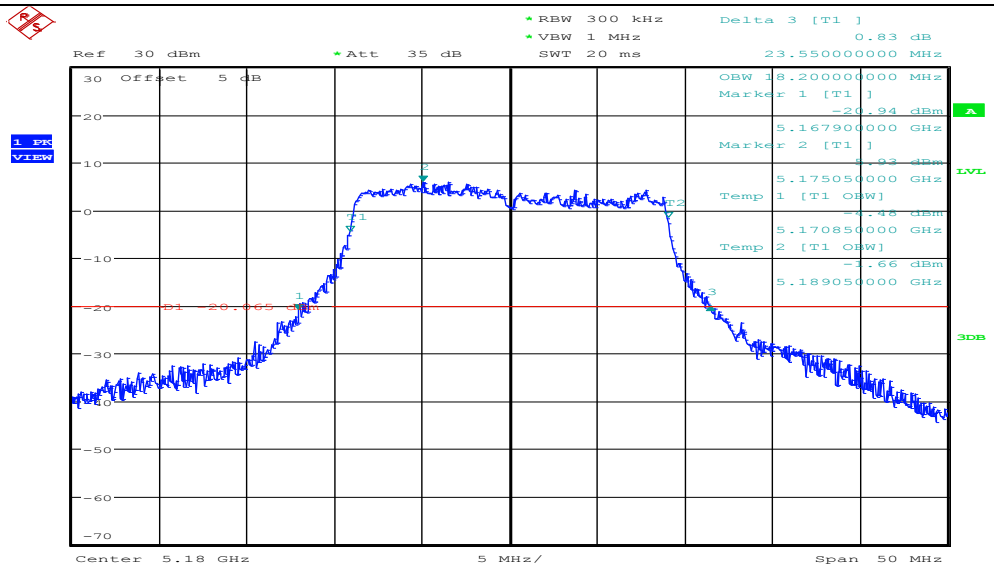

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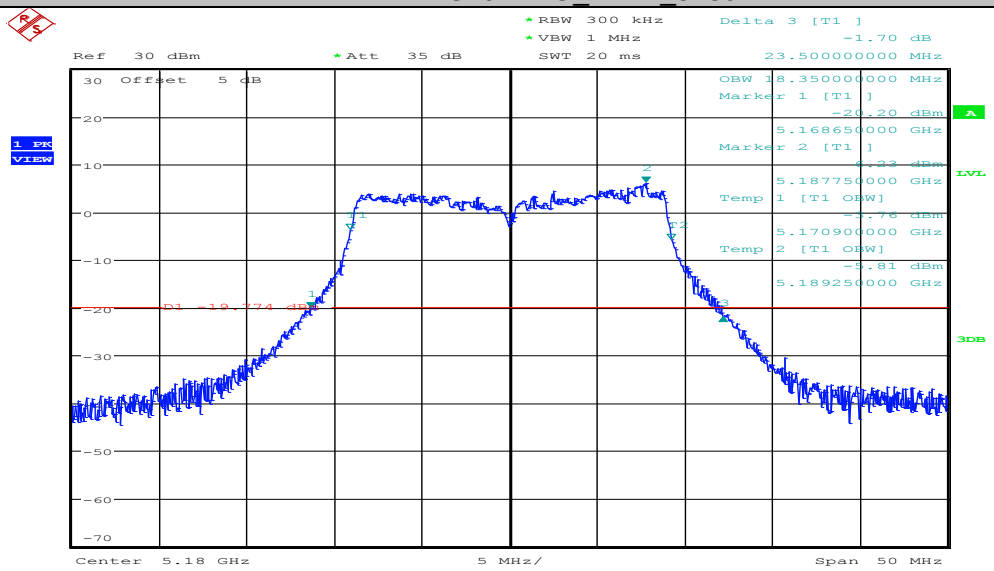

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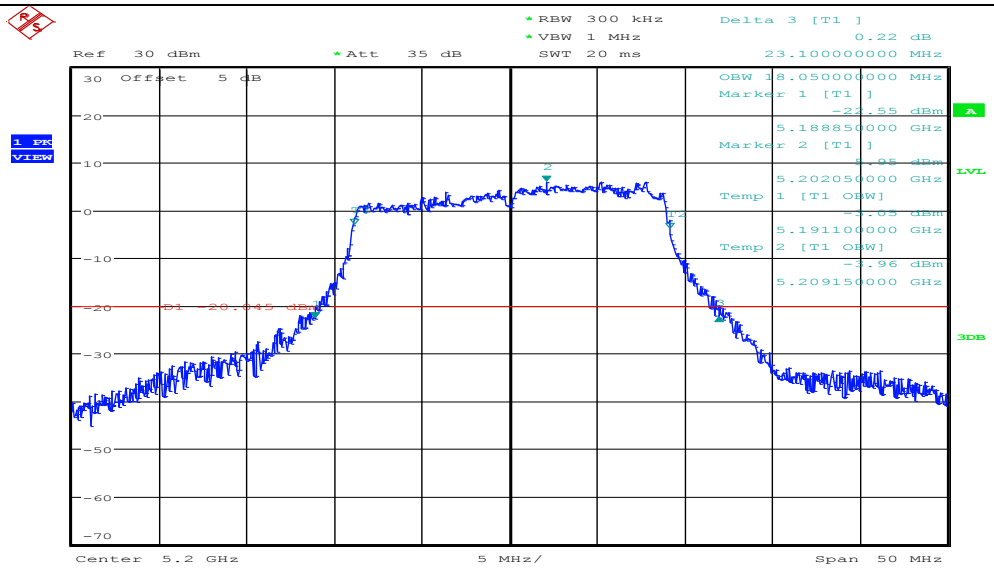

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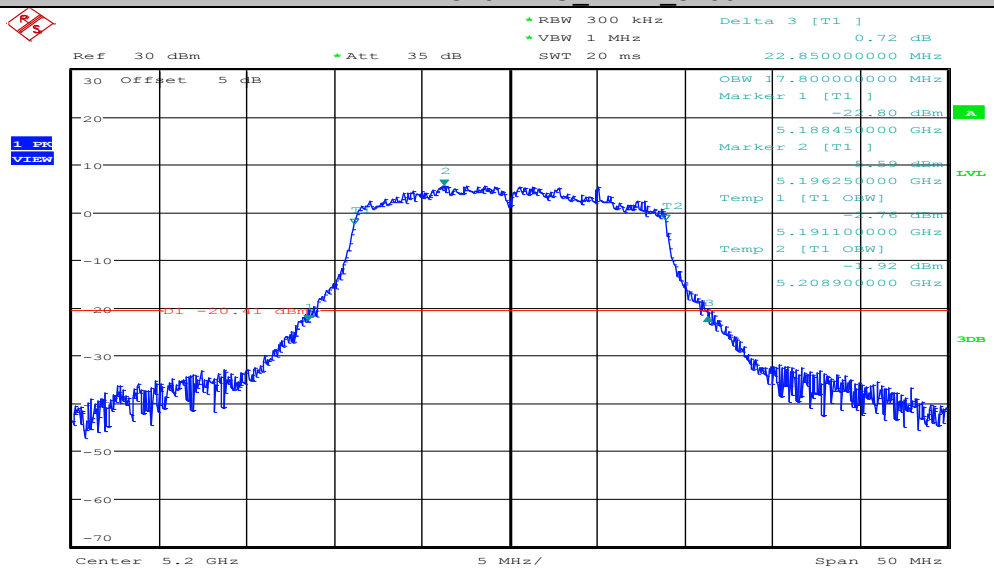

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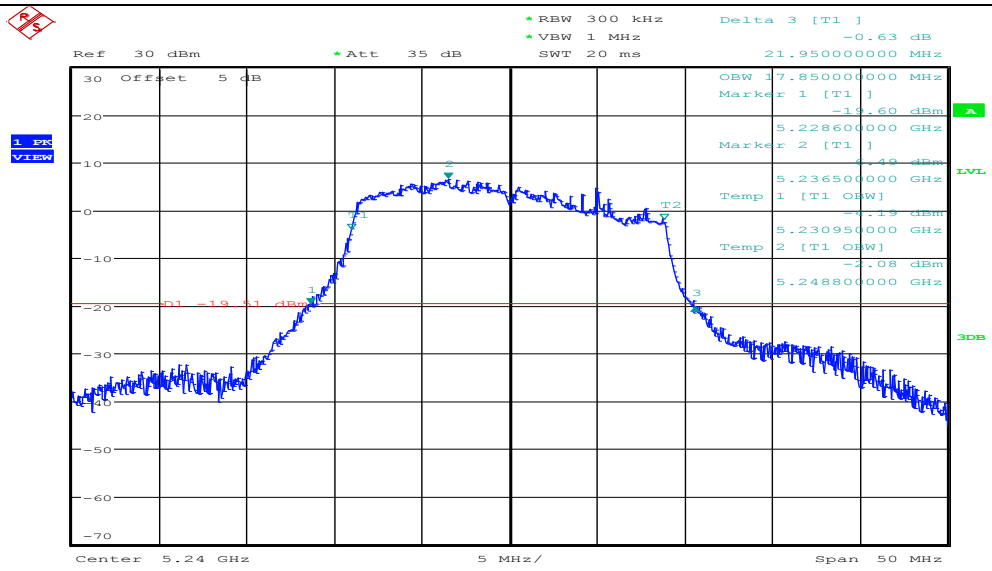
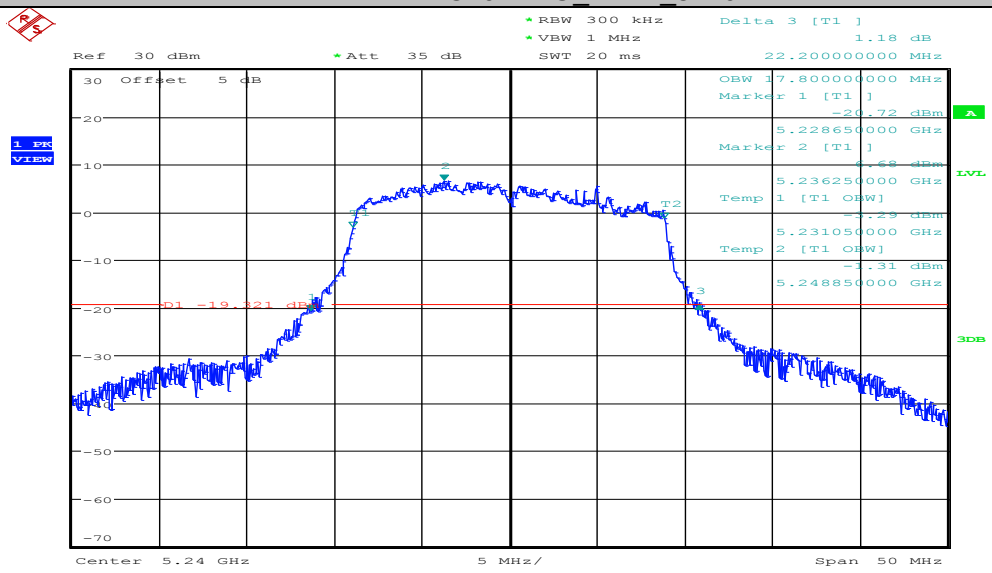
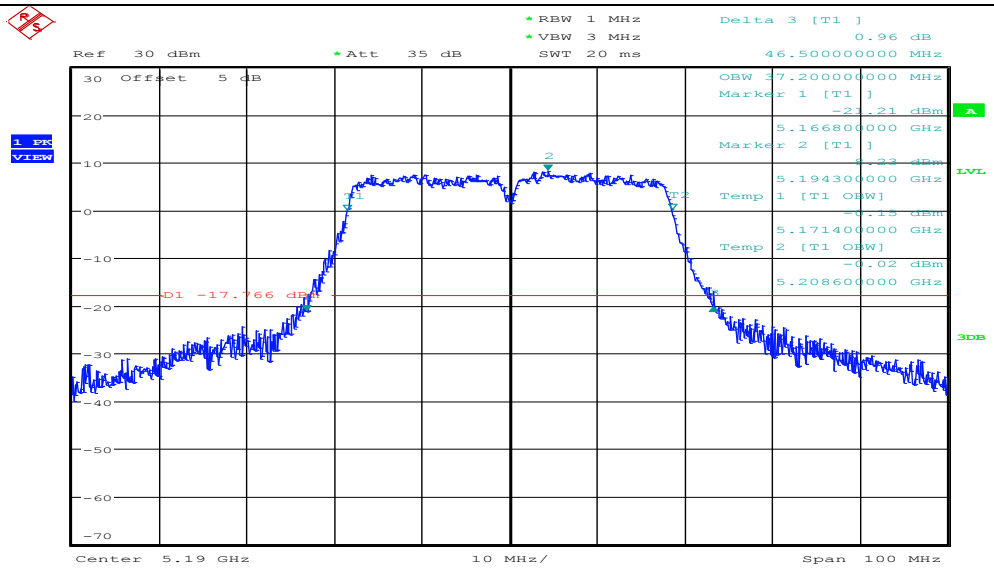
11AC20MIMO_ANT1_5240



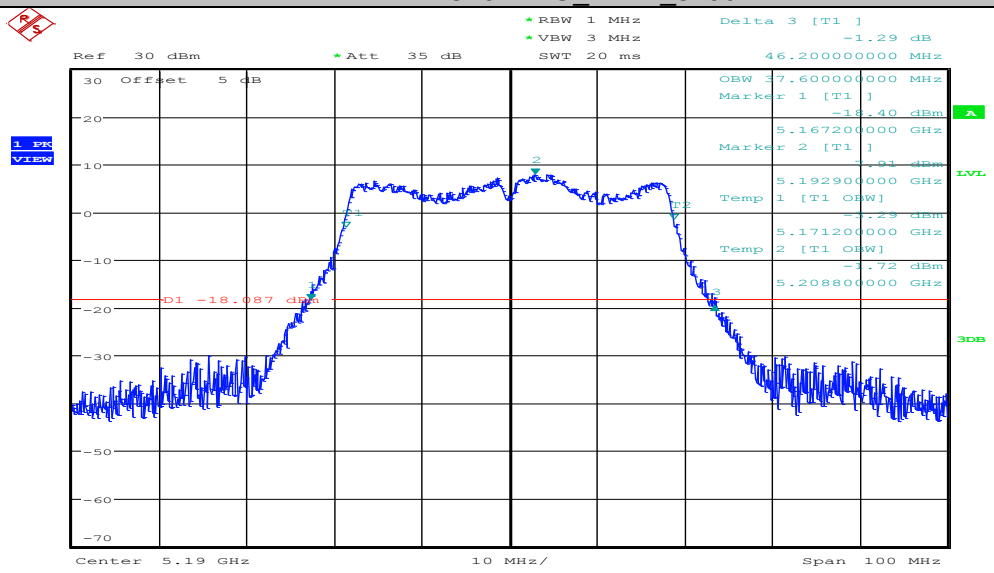
11AC20MIMO_ANT2_5240



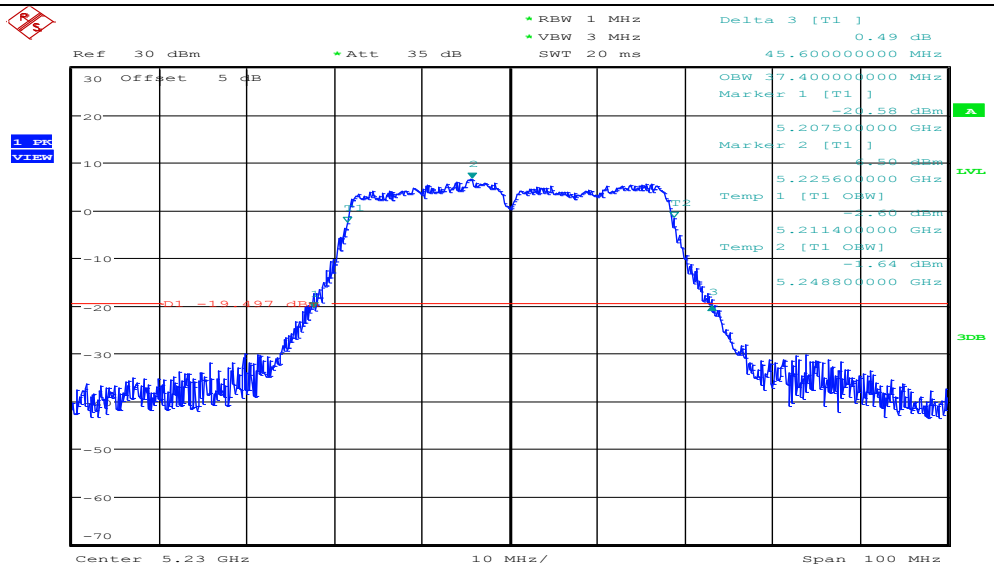
11AC40MIMO_ANT1_5190



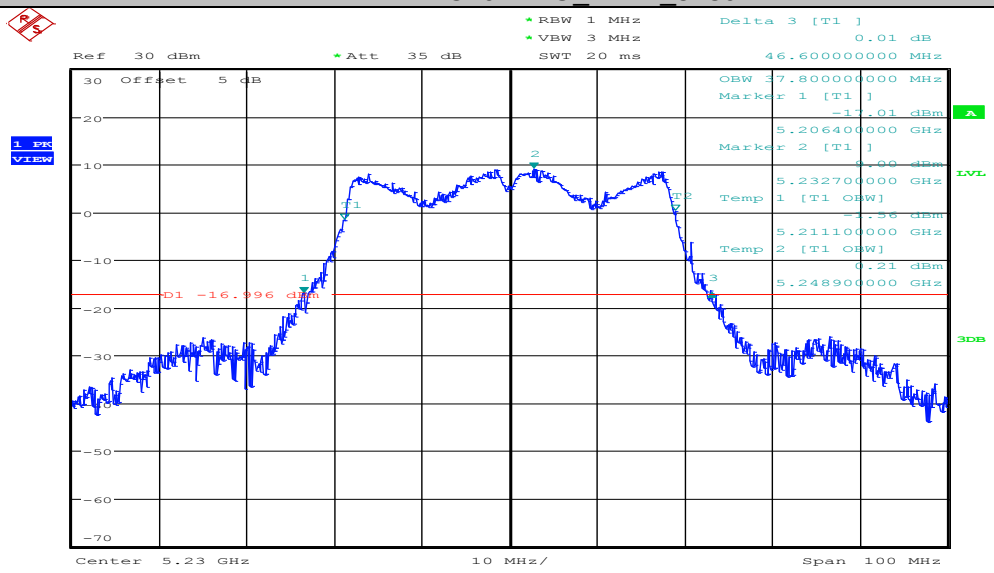
11AC40MIMO_ANT2_5190



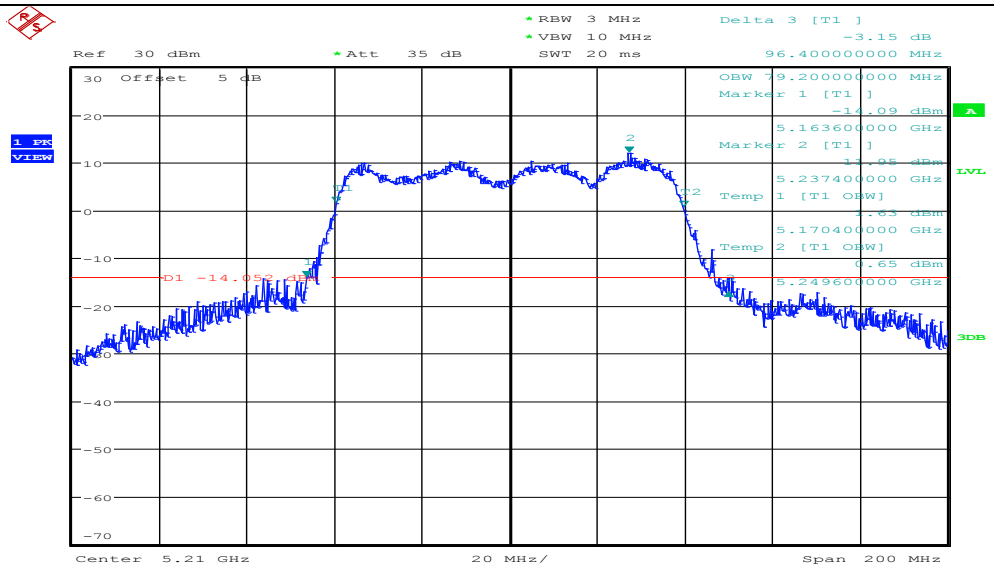
11AC40MIMO_ANT1_5230



11AC40MIMO_ANT2_5230



11AC80MIMO_ANT1_5210



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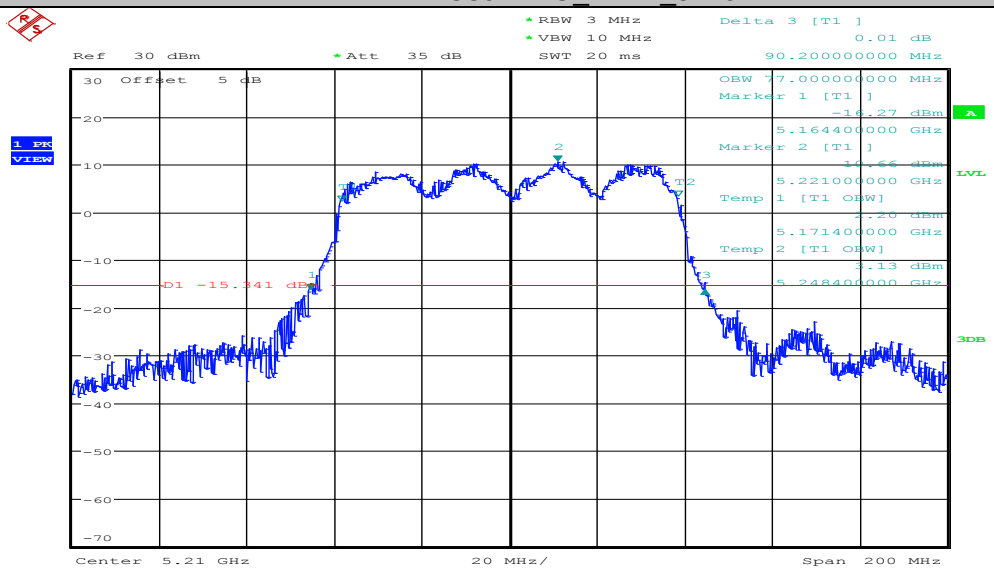
11AC80MIMO_ANT2_5210



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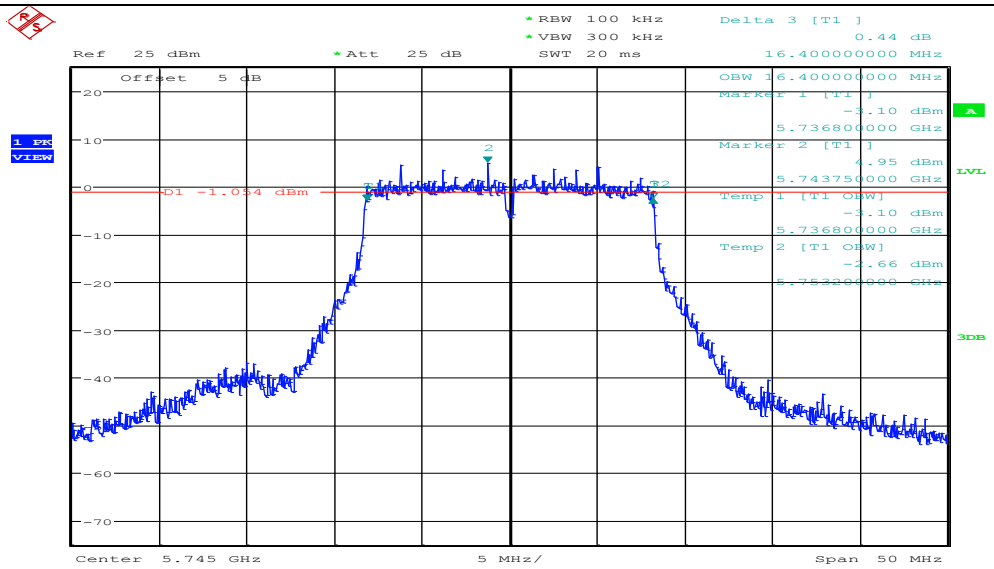
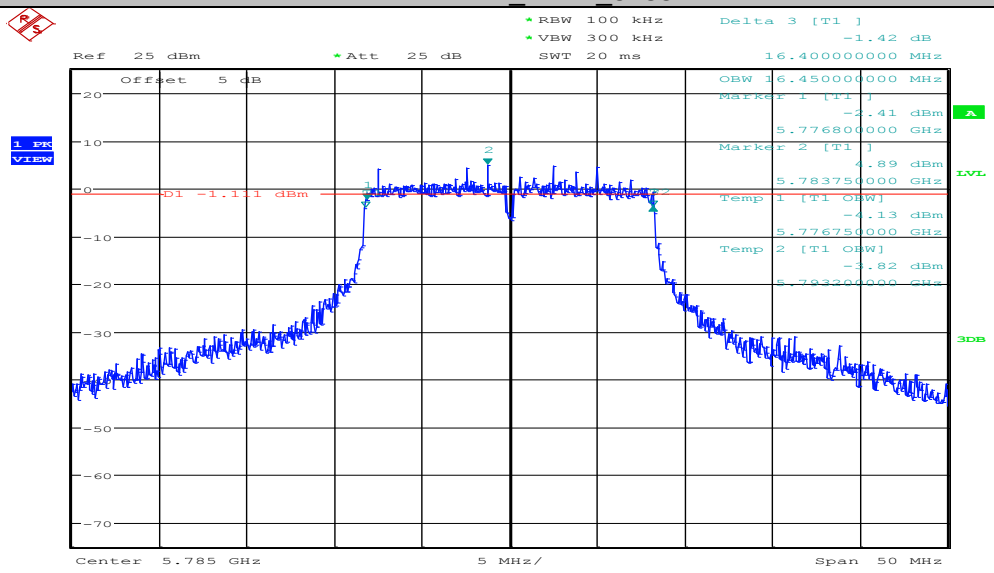
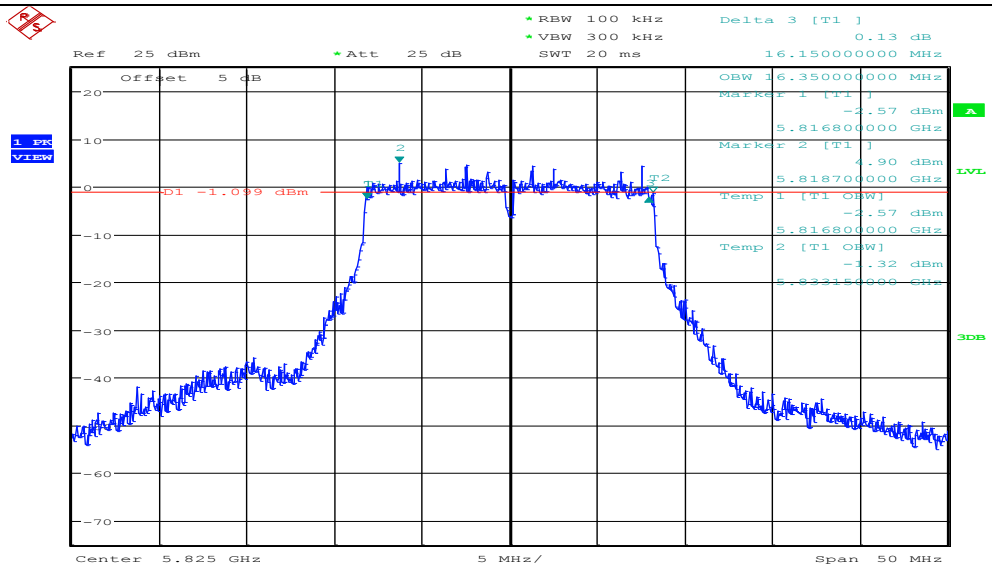
11A_ANT1_5745



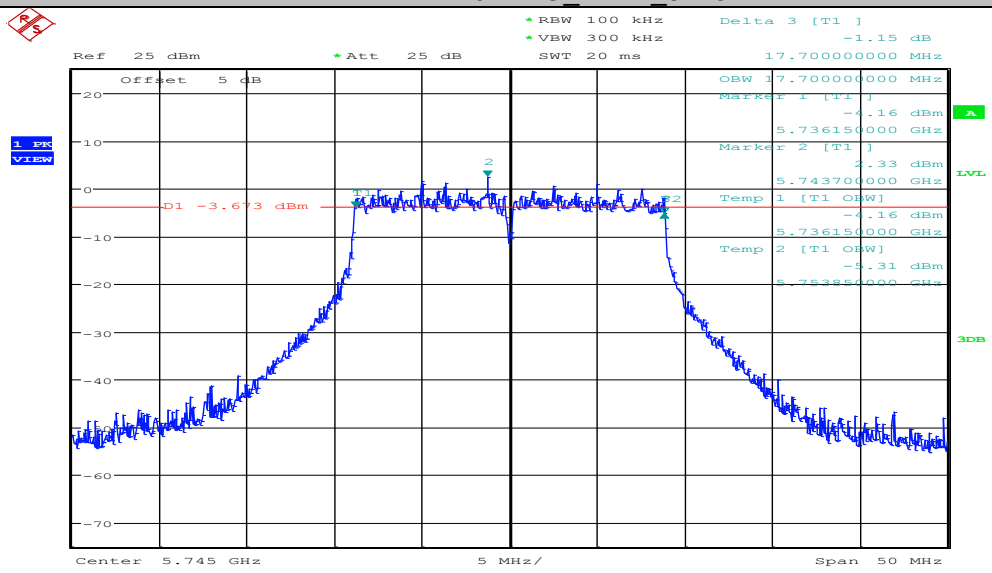
11A_ANT1_5785



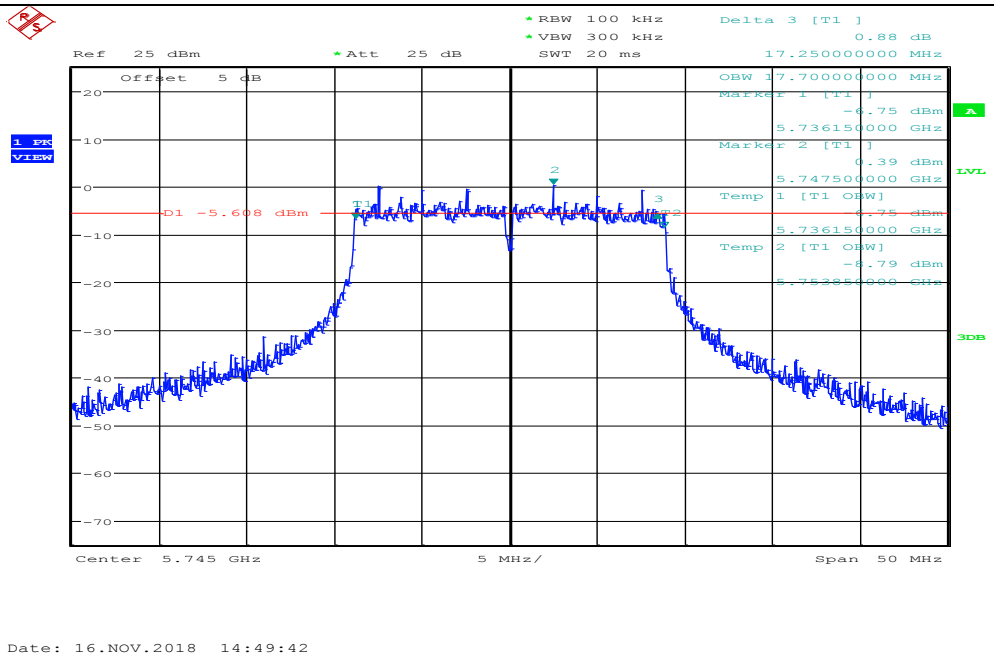
11A_ANT1_5825



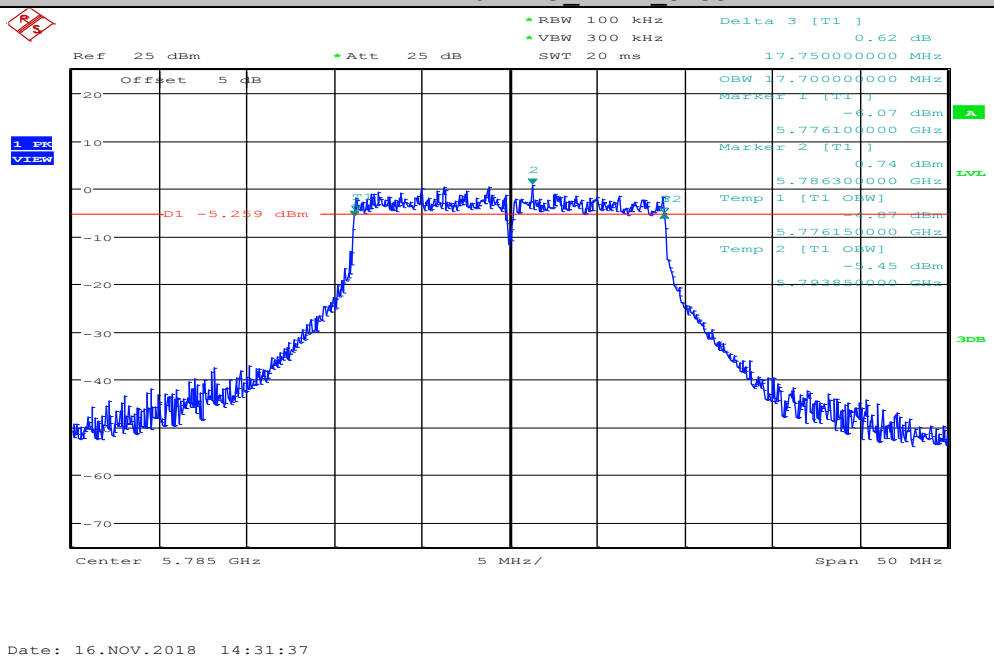
11N20MIMO_ANT1_5745



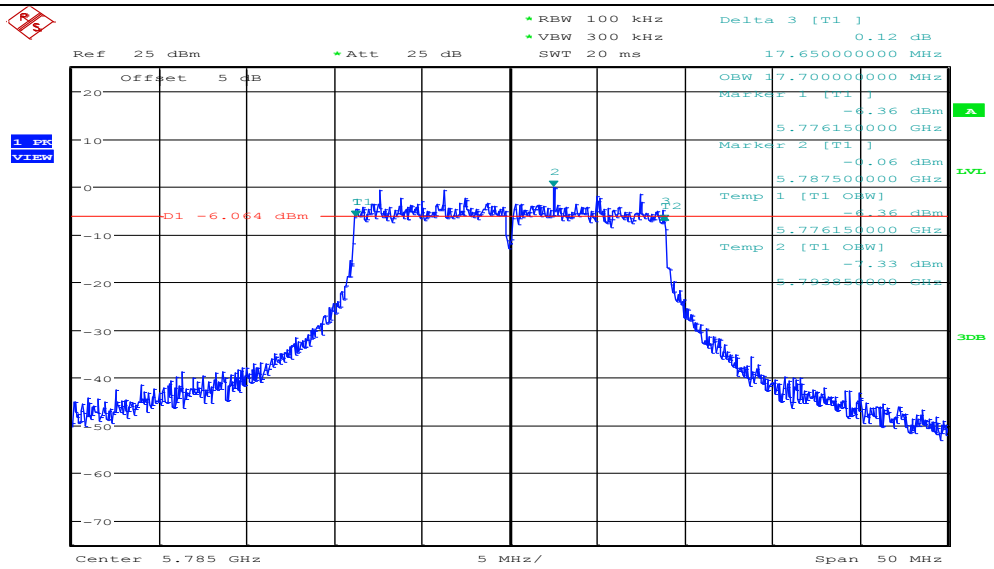
11N20MIMO_ANT2_5745



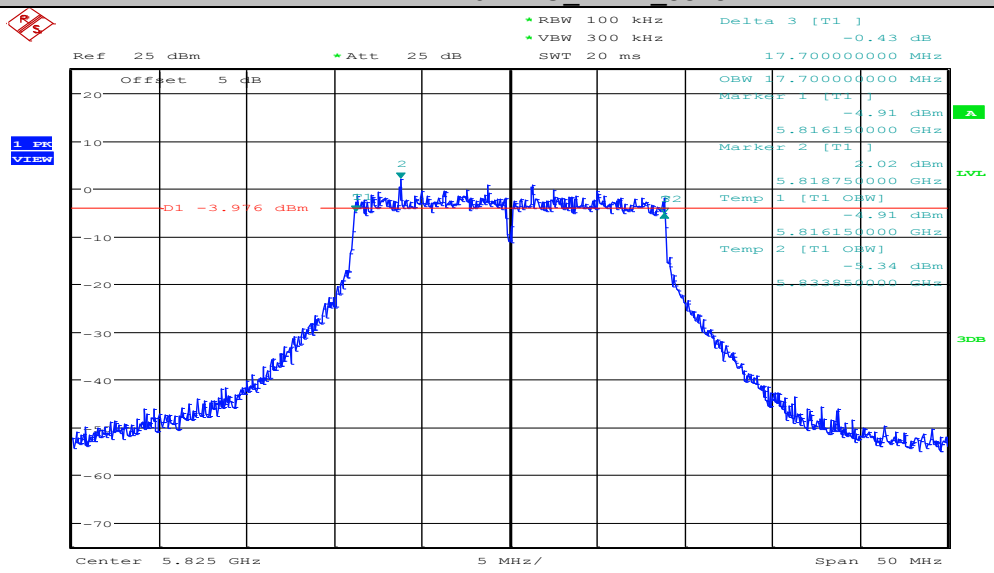
11N20MIMO_ANT1_5785



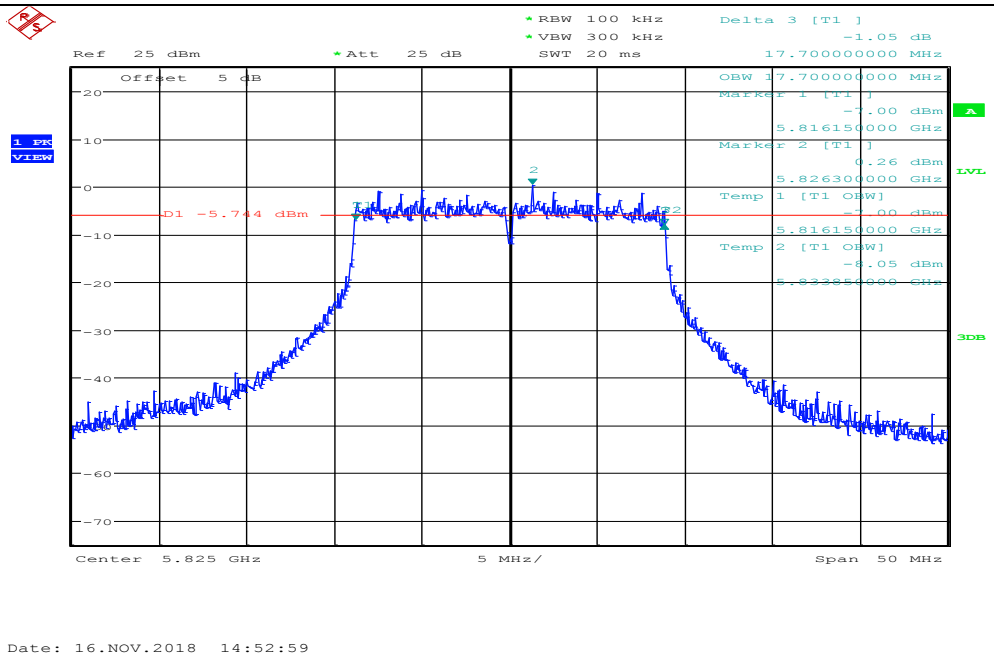
11N20MIMO_ANT2_5785



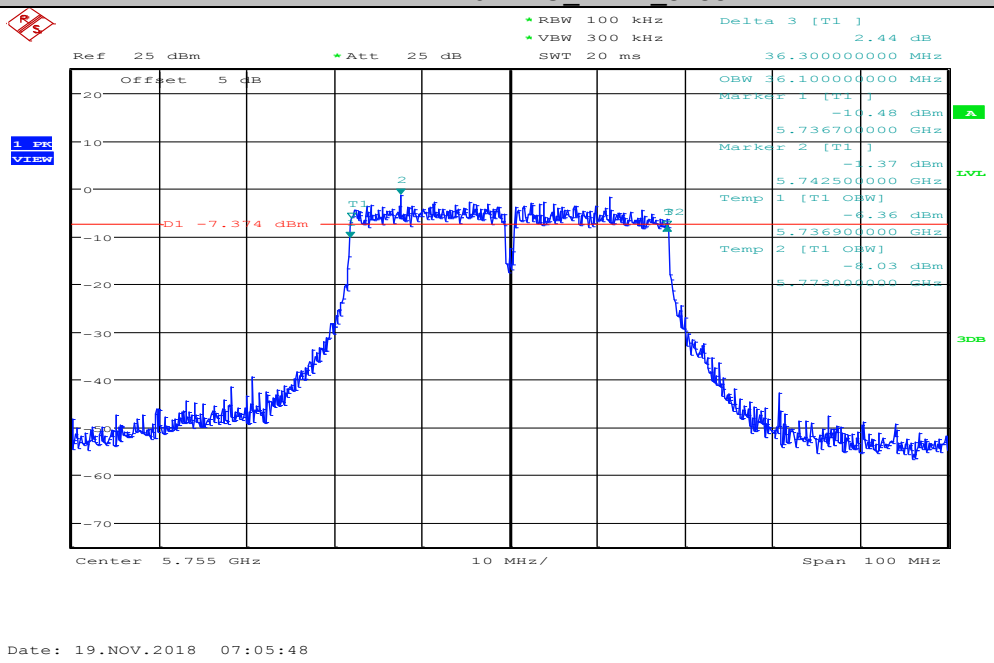
11N20MIMO_ANT1_5825



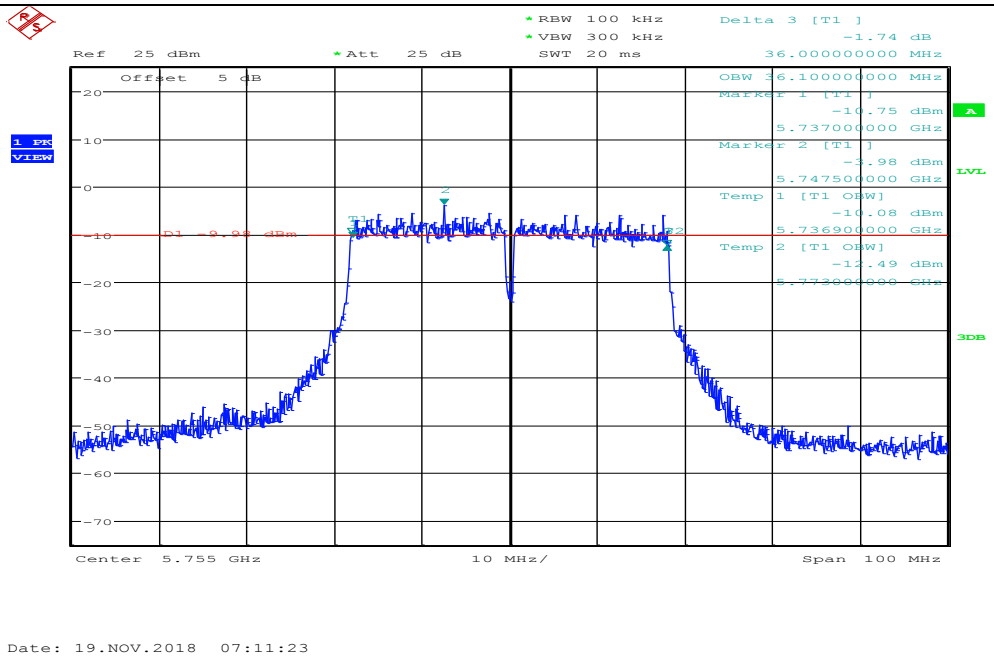
11N20MIMO_ANT2_5825



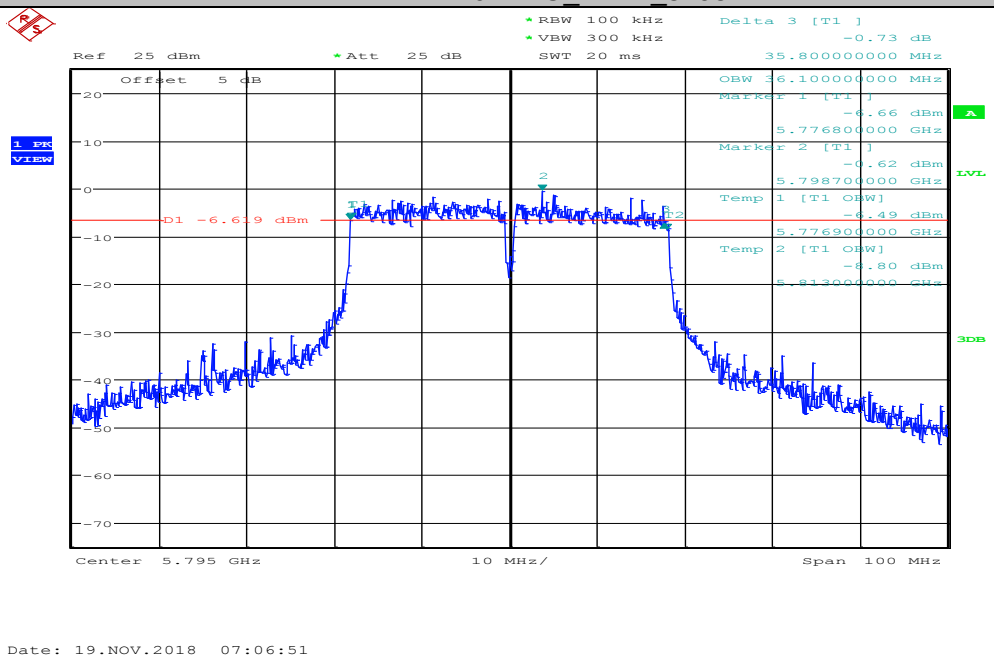
11N40MIMO_ANT1_5755



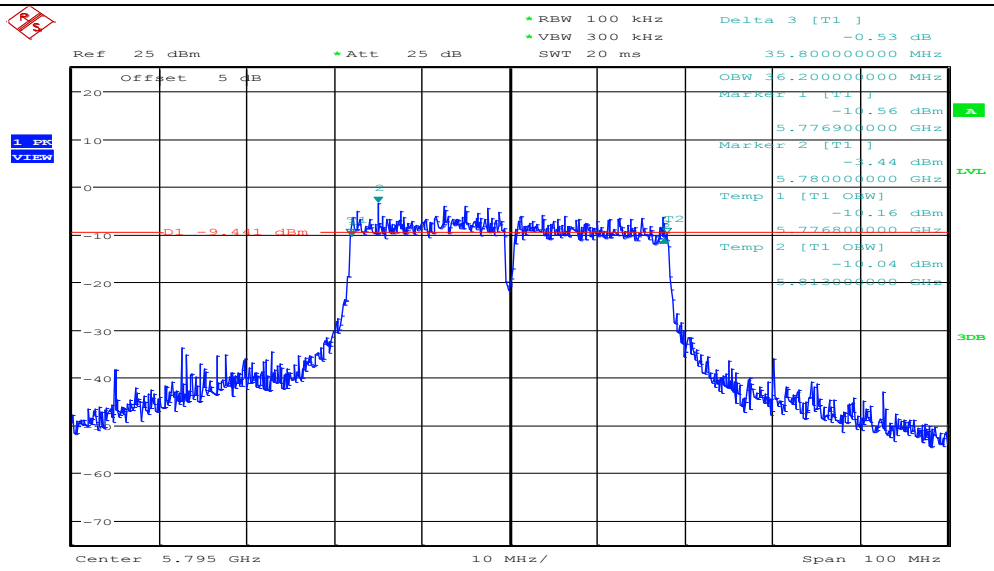
11N40MIMO_ANT2_5755



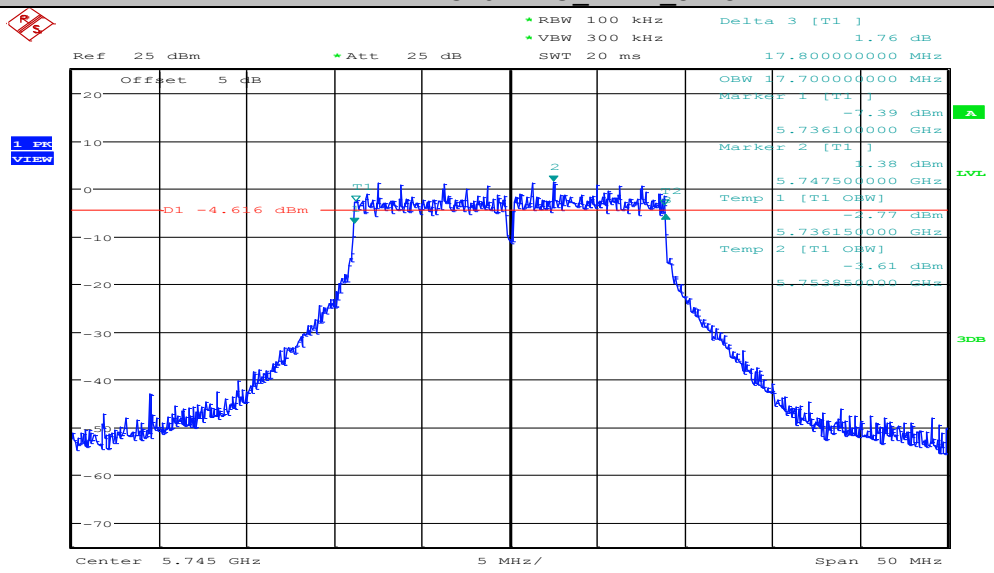
11N40MIMO_ANT1_5795



11N40MIMO_ANT2_5795



11AC20MIMO_ANT1_5745



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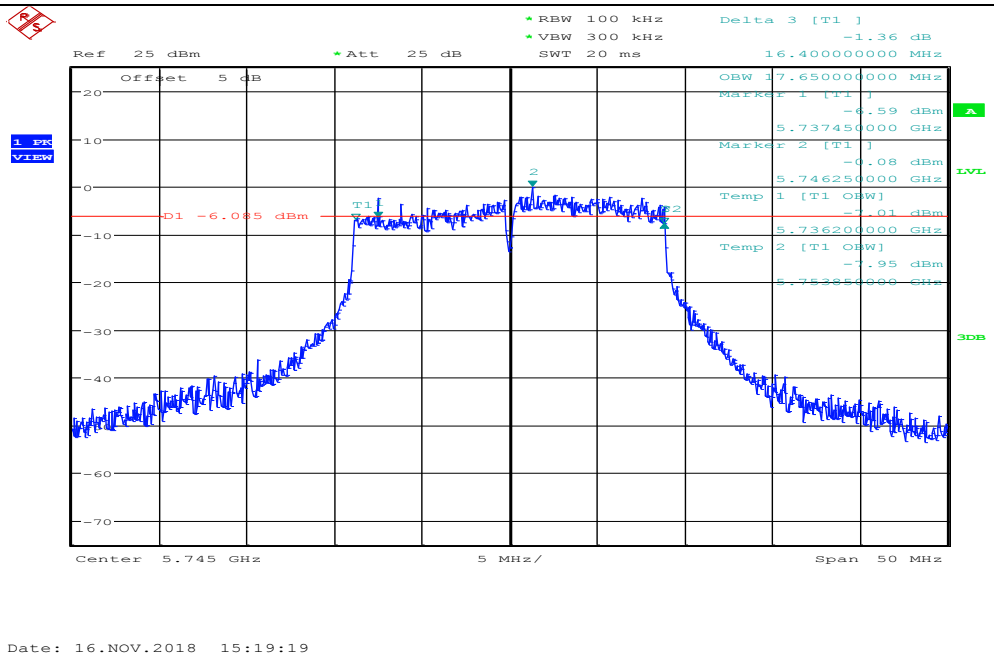

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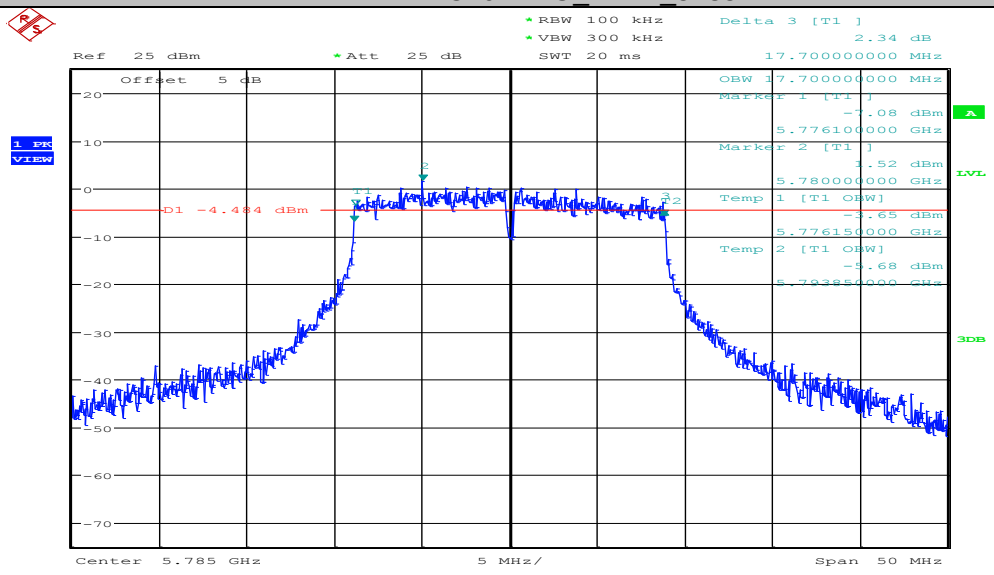
11AC20MIMO_ANT1_5785



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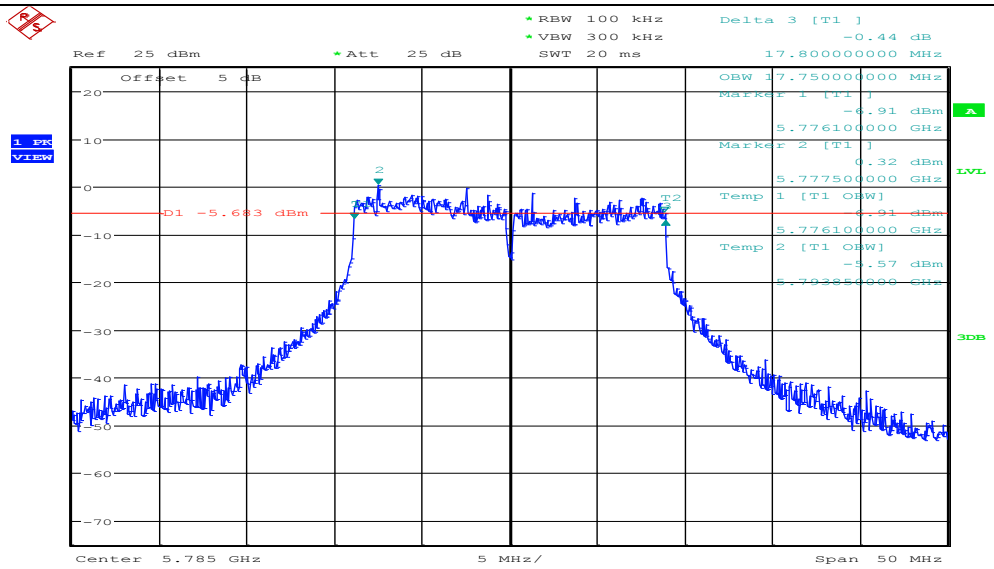
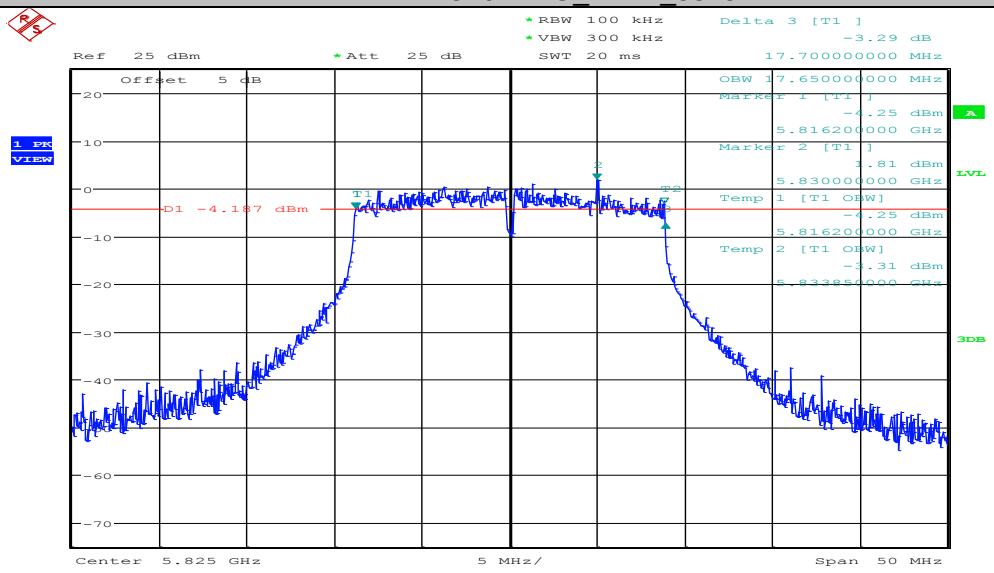
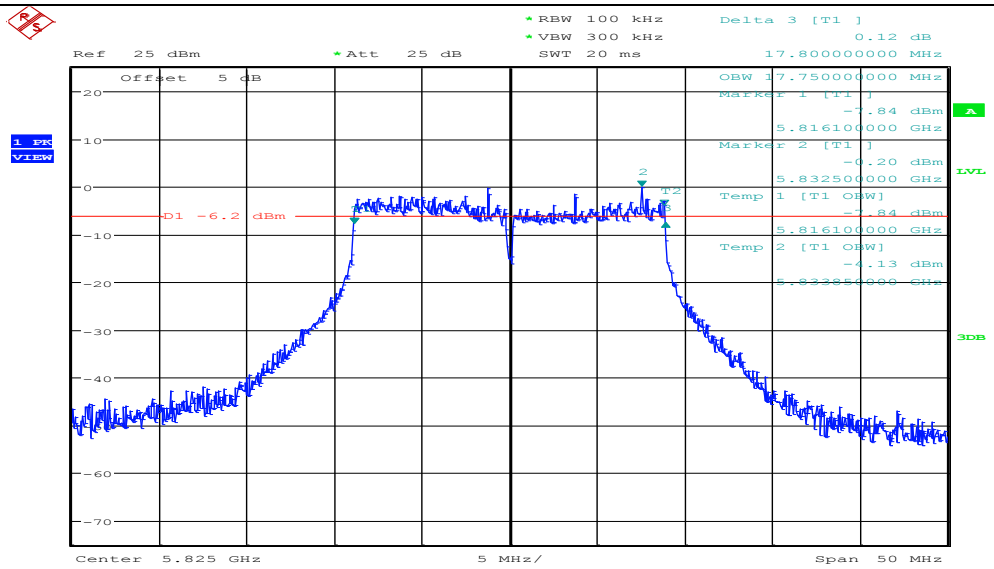
11AC20MIMO_ANT2_5785



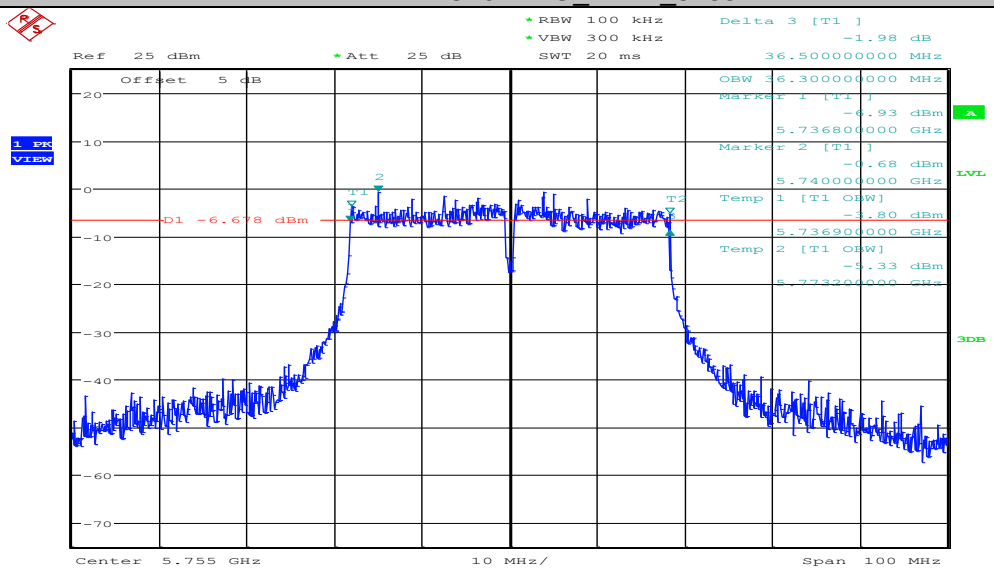
11AC20MIMO_ANT1_5825



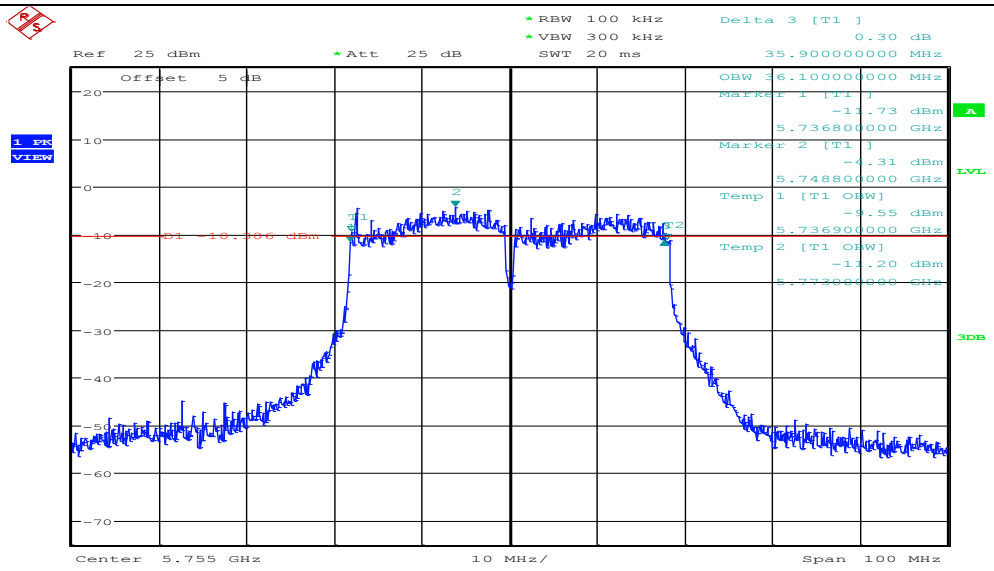
11AC20MIMO_ANT2_5825



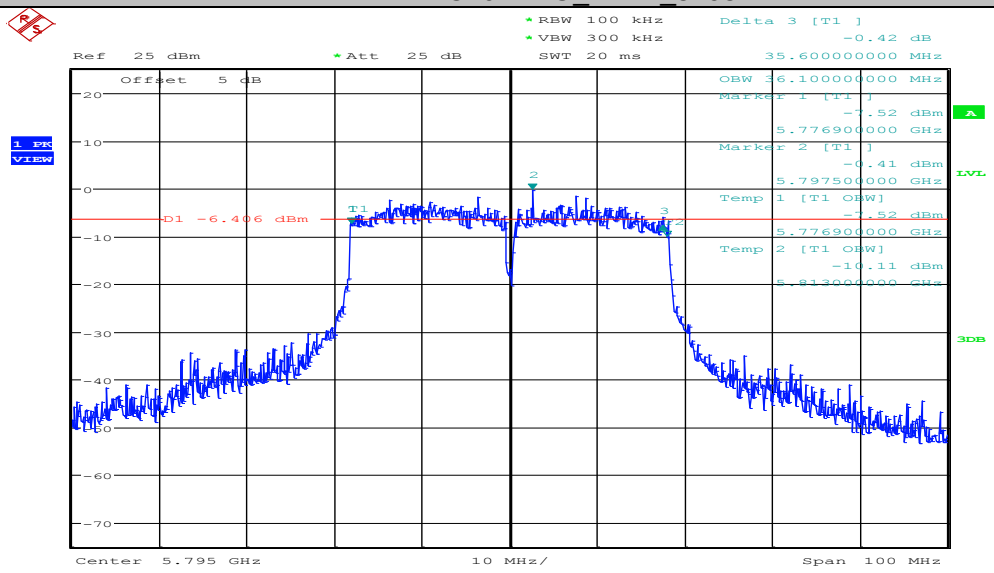
11AC40MIMO_ANT1_5755



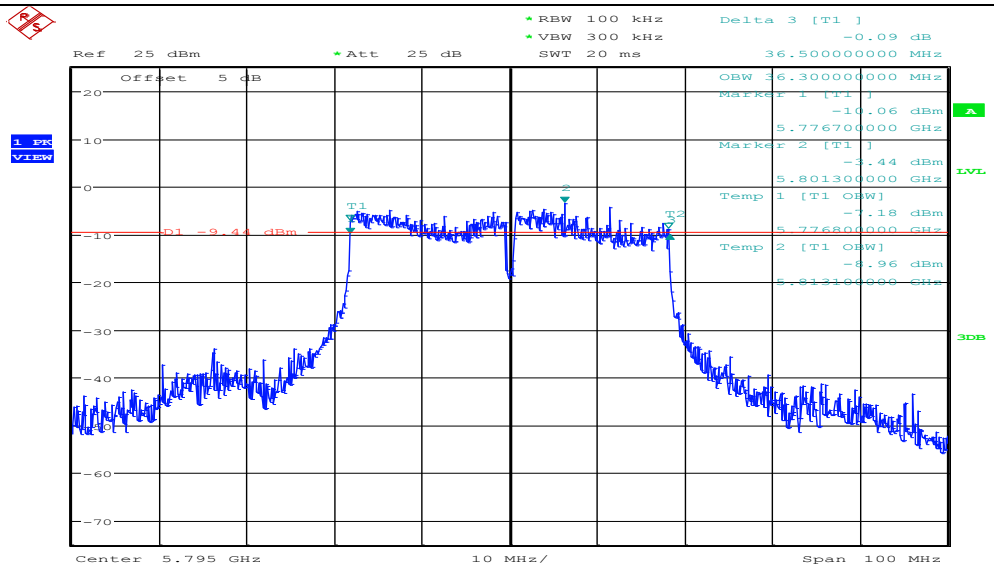
11AC40MIMO_ANT2_5755



11AC40MIMO_ANT1_5795

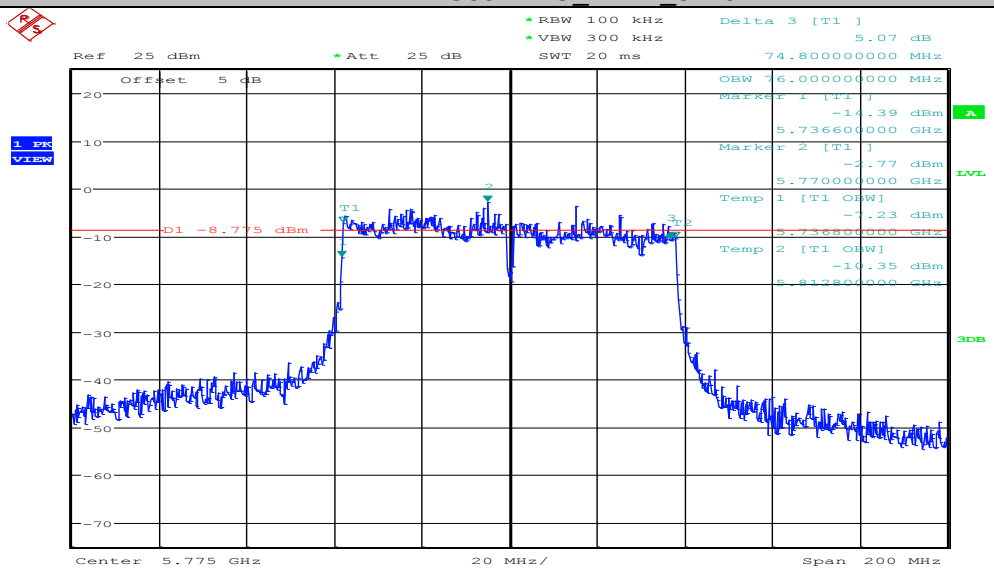


11AC40MIMO_ANT2_5795



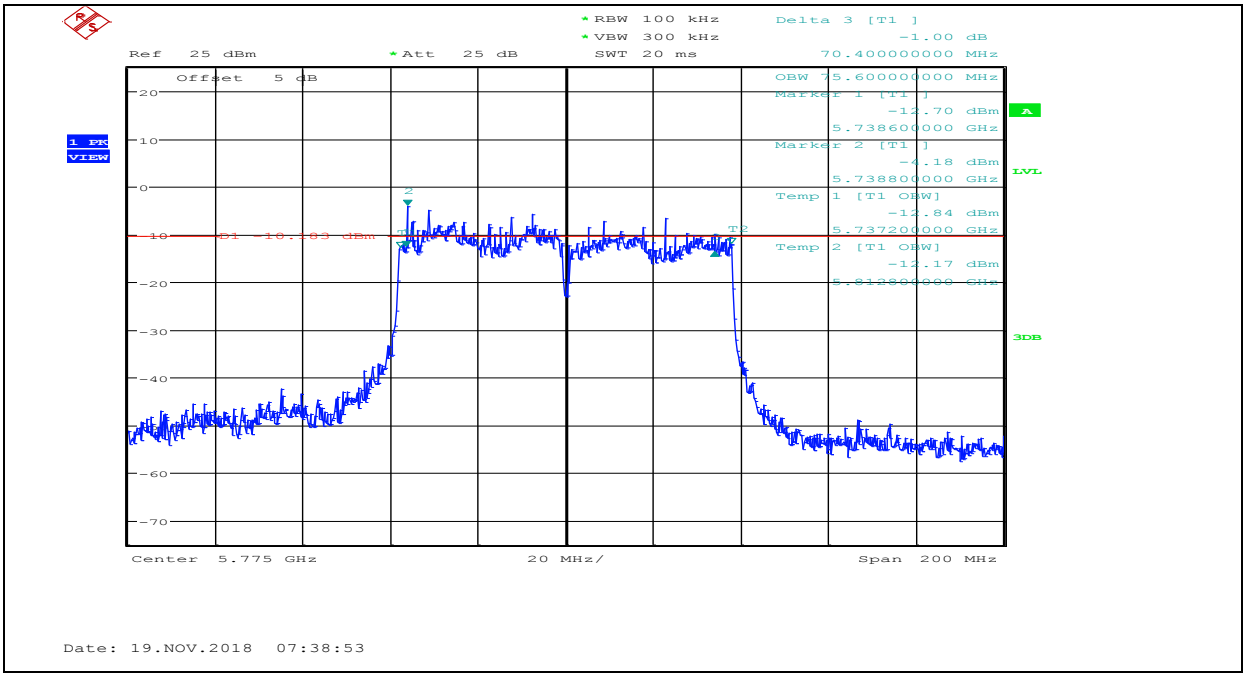
Date: 19.NOV.2018 07:32:22

11AC80MIMO_ANT1_5775



Date: 19.NOV.2018 07:35:58

11AC80MIMO_ANT2_5775


RBW 100 kHz
VBW 300 kHz
SWT 20 ms
Delta 3 [T1]
-1.00 dB
70.400000000 MHz
OBW 75.600000000 MHz
Ref 25 dBm
Att 25 dB
Offset 5 dB
Marker 1 [T1]
-12.70 dBm
5.738600000 GHz
Marker 2 [T1]
-4.18 dBm
5.738800000 GHz
Temp 1 [T1 OBW]
-12.84 dBm
5.737200000 GHz
Temp 2 [T1 OBW]
-12.17 dBm
5.812800000 GHz
1 PK
VIEW
A
LVL
3DB
D1 -16.03 dBm
Center 5.775 GHz
20 MHz/
Span 200 MHz
Date: 19.NOV.2018 07:38:53

5. Maximum Output Power

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For 802.11a: 28 dBm For 802.11n and 802.11ac: 30 dBm	5150-5250
	For 802.11a: 28dBm For 802.11n and 802.11ac: 30 dBm	5725-5850
Note: for 802.11n and 802.11ac, the EUT incorporates a MIMO function. The Antenna directional gain is 3 dBi.		

5.3. Test Procedure

(1) Connect each EUT's antenna output to Spectrum Analyzer by RF cable and attenuator

(2) Add each antenna port's results to get the total output power of EUT.

5.4. Test Result

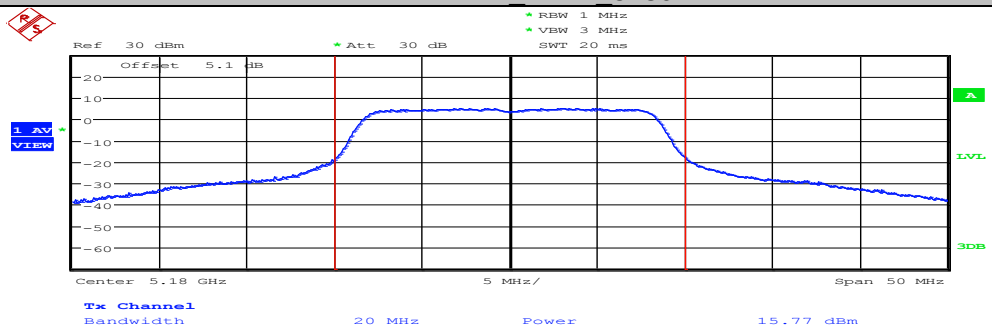
Test Mode	Antenna	Channel [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	ANT1	5180	15.77	30	PASS
11A	ANT1	5200	15.69	30	PASS
11A	ANT1	5240	15.34	30	PASS
11A	ANT1	5745	15.85	30	PASS
11A	ANT1	5785	16.10	30	PASS
11A	ANT1	5825	16.14	30	PASS
11N20MIMO	ANT1	5180	13.73	30	PASS
11N20MIMO	ANT2	5180	13.63	30	PASS
11N20MIMO	total	5180	19.66	30	PASS
11N20MIMO	ANT1	5200	13.45	30	PASS
11N20MIMO	ANT2	5200	13.74	30	PASS
11N20MIMO	total	5200	19.61	30	PASS
11N20MIMO	ANT1	5240	13.49	30	PASS
11N20MIMO	ANT2	5240	13.65	30	PASS
11N20MIMO	total	5240	19.61	30	PASS
11N20MIMO	ANT1	5745	13.63	30	PASS
11N20MIMO	ANT2	5745	10.82	30	PASS
11N20MIMO	total	5745	18.43	30	PASS

11N20MIMO	ANT1	5785	13.70	30	PASS
11N20MIMO	ANT2	5785	11.29	30	PASS
11N20MIMO	total	5785	18.67	30	PASS
11N20MIMO	ANT1	5825	13.71	30	PASS
11N20MIMO	ANT2	5825	11.43	30	PASS
11N20MIMO	total	5825	18.71	30	PASS
11N40MIMO	ANT1	5190	13.37	30	PASS
11N40MIMO	ANT2	5190	13.00	30	PASS
11N40MIMO	total	5190	19.21	30	PASS
11N40MIMO	ANT1	5230	13.47	30	PASS
11N40MIMO	ANT2	5230	12.42	30	PASS
11N40MIMO	total	5230	19.00	30	PASS
11N40MIMO	ANT1	5755	14.19	30	PASS
11N40MIMO	ANT2	5755	10.47	30	PASS
11N40MIMO	total	5755	18.74	30	PASS
11N40MIMO	ANT1	5795	14.47	30	PASS
11N40MIMO	ANT2	5795	11.00	30	PASS
11N40MIMO	total	5795	19.10	30	PASS
11AC20MIMO	ANT1	5180	13.33	30	PASS
11AC20MIMO	ANT2	5180	13.06	30	PASS
11AC20MIMO	total	5180	19.21	30	PASS
11AC20MIMO	ANT1	5200	13.31	30	PASS
11AC20MIMO	ANT2	5200	13.37	30	PASS
11AC20MIMO	total	5200	19.36	30	PASS
11AC20MIMO	ANT1	5240	13.25	30	PASS
11AC20MIMO	ANT2	5240	13.72	30	PASS
11AC20MIMO	total	5240	19.51	30	PASS
11AC20MIMO	ANT1	5745	13.44	30	PASS
11AC20MIMO	ANT2	5745	11.25	30	PASS
11AC20MIMO	total	5745	18.49	30	PASS
11AC20MIMO	ANT1	5785	13.78	30	PASS
11AC20MIMO	ANT2	5785	11.65	30	PASS
11AC20MIMO	total	5785	18.89	30	PASS
11AC20MIMO	ANT1	5825	13.95	30	PASS
11AC20MIMO	ANT2	5825	11.59	30	PASS
11AC20MIMO	total	5825	18.97	30	PASS
11AC40MIMO	ANT1	5190	13.09	30	PASS
11AC40MIMO	ANT2	5190	11.94	30	PASS
11AC40MIMO	total	5190	18.55	30	PASS

11AC40MIMO	ANT1	5230	11.00	30	PASS
11AC40MIMO	ANT2	5230	12.86	30	PASS
11AC40MIMO	total	5230	18.06	30	PASS
11AC40MIMO	ANT1	5755	14.01	30	PASS
11AC40MIMO	ANT2	5755	11.19	30	PASS
11AC40MIMO	total	5755	18.83	30	PASS
11AC40MIMO	ANT1	5795	13.95	30	PASS
11AC40MIMO	ANT2	5795	11.65	30	PASS
11AC40MIMO	total	5795	19.01	30	PASS
11AC80MIMO	ANT1	5210	14.12	30	PASS
11AC80MIMO	ANT2	5210	12.79	30	PASS
11AC80MIMO	total	5210	19.51	30	PASS
11AC80MIMO	ANT1	5775	14.60	30	PASS
11AC80MIMO	ANT2	5775	11.91	30	PASS
11AC80MIMO	total	5775	19.47	30	PASS

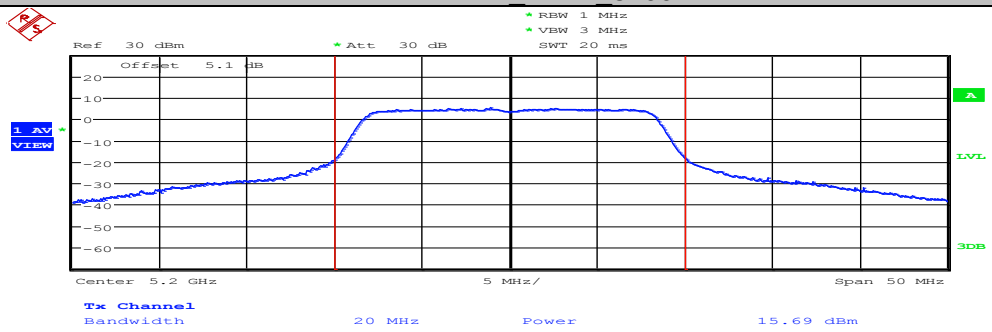
5.5. Original test data

11A_ANT1_5180



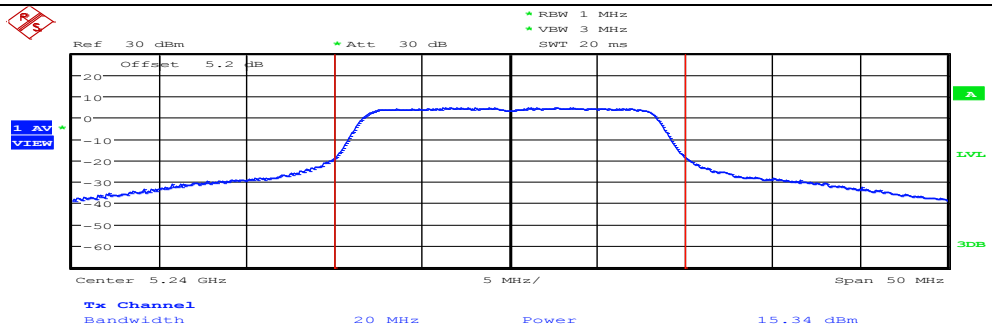
Date: 16.NOV.2018 12:42:40

11A_ANT1_5200



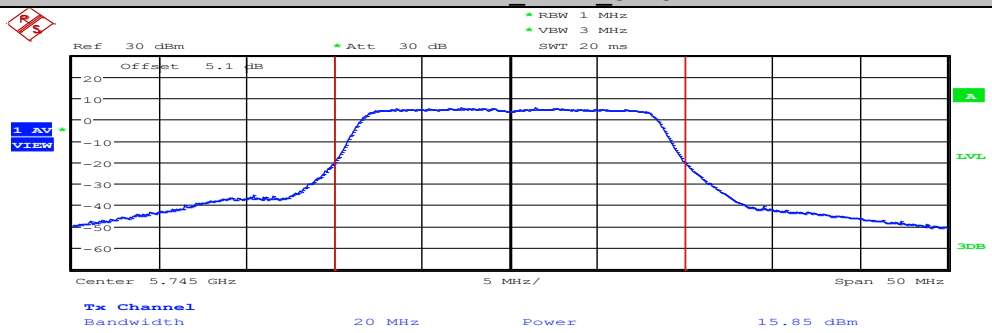
Date: 16.NOV.2018 12:43:47

11A_ANT1_5240



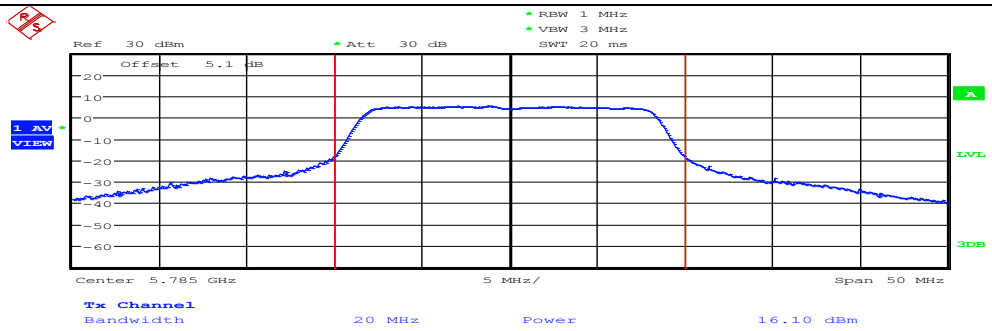
Date: 16.NOV.2018 12:45:33

11A_ANT1_5745



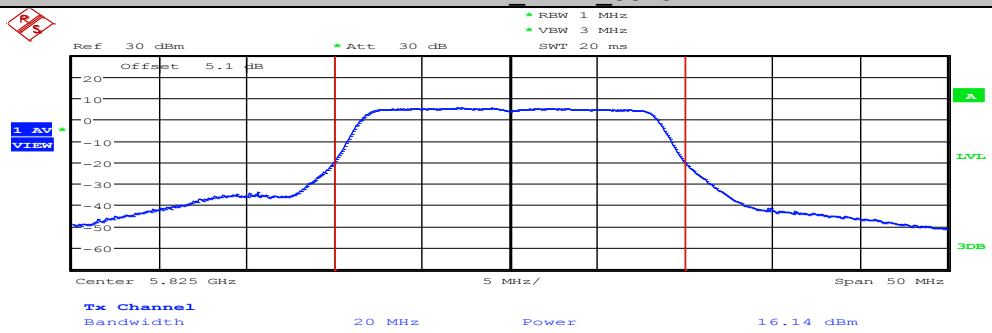
Date: 16.NOV.2018 12:50:10

11A_ANT1_5785



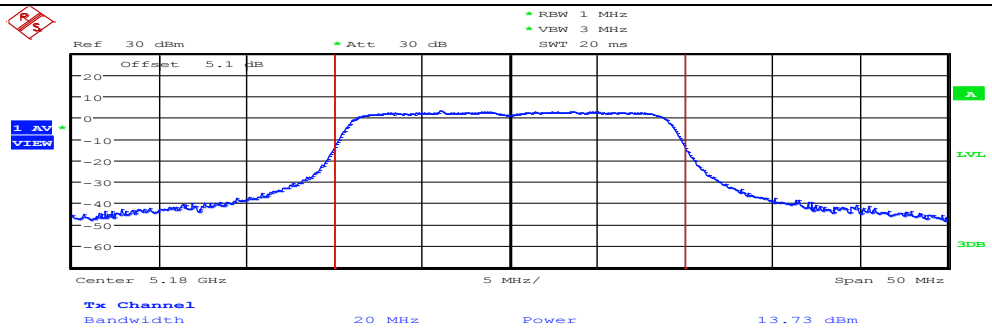
Date: 16.NOV.2018 12:52:07

11A_ANT1_5825



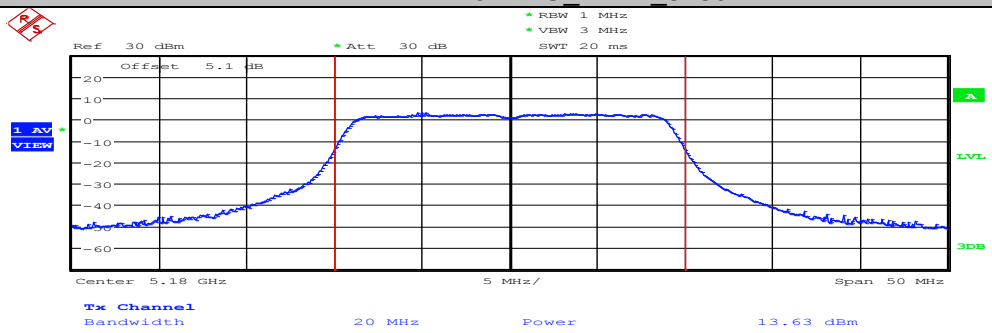
Date: 16.NOV.2018 12:53:49

11N20MIMO_ANT1_5180



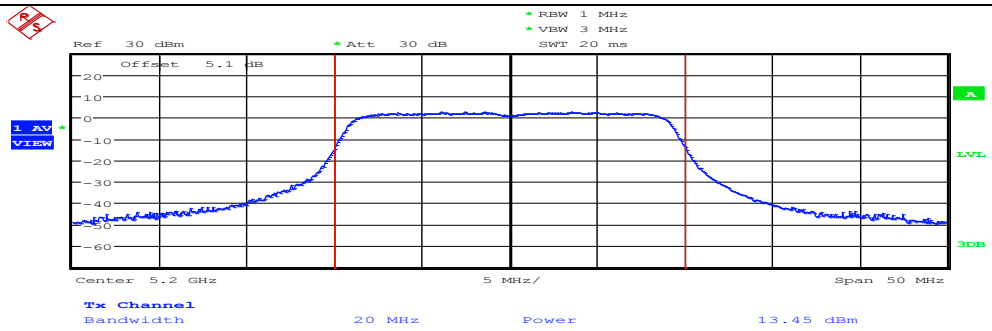
Date: 16.NOV.2018 14:23:26

11N20MIMO_ANT2_5180



Date: 16.NOV.2018 14:36:22

11N20MIMO_ANT1_5200



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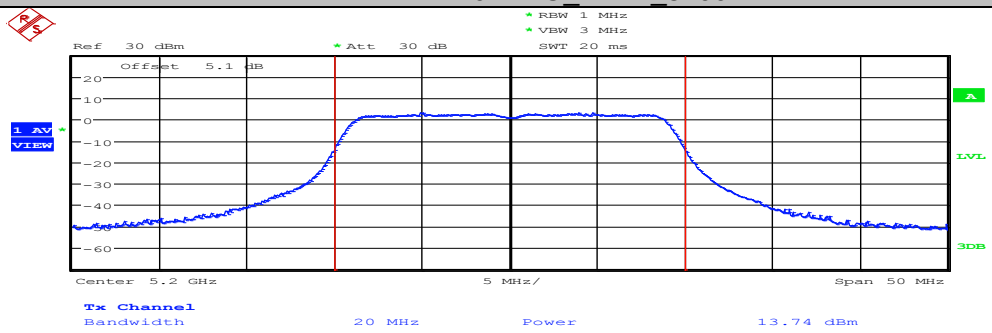

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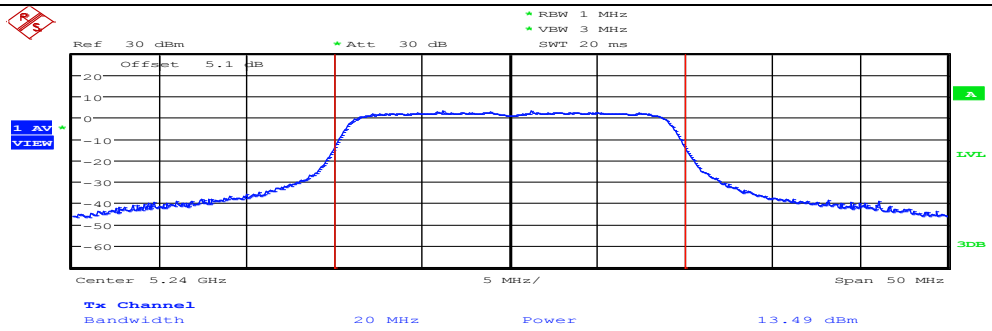

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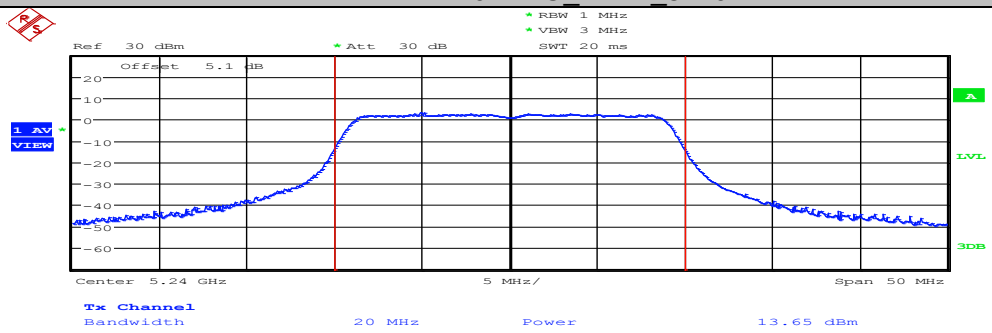

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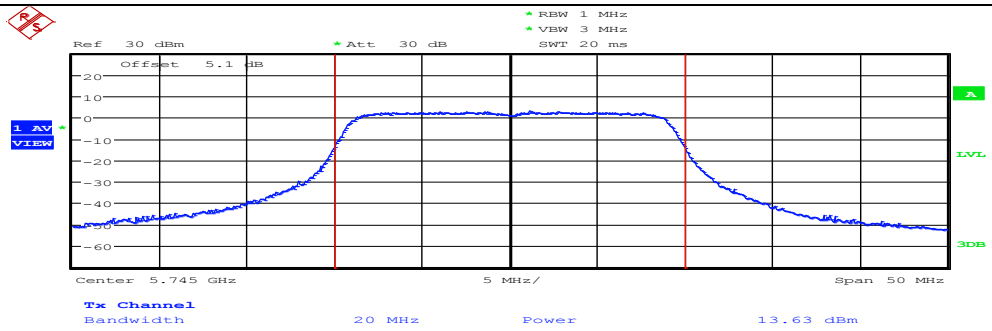

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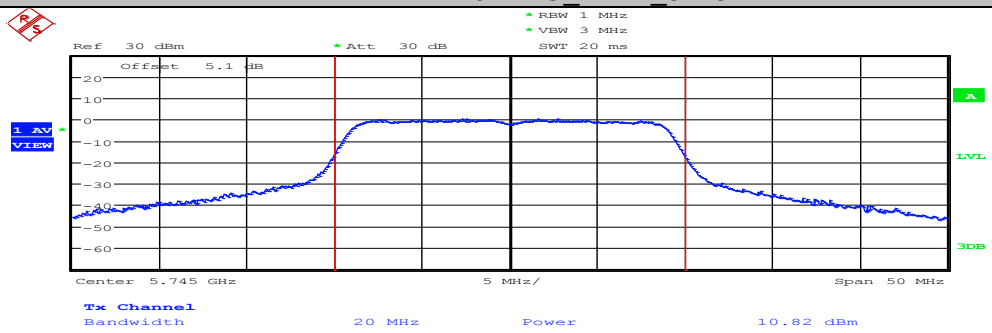

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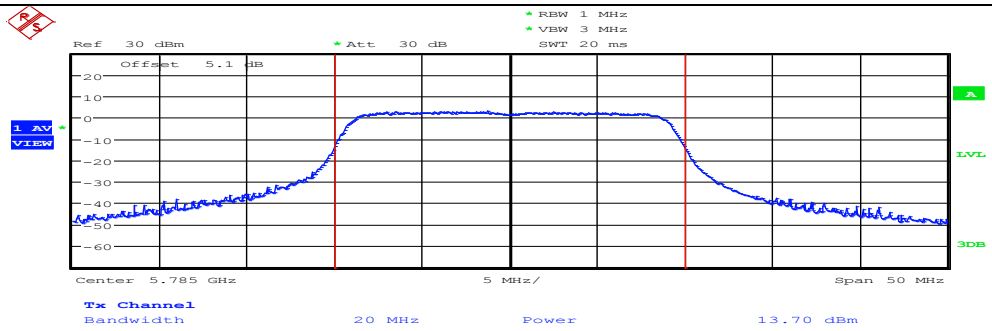

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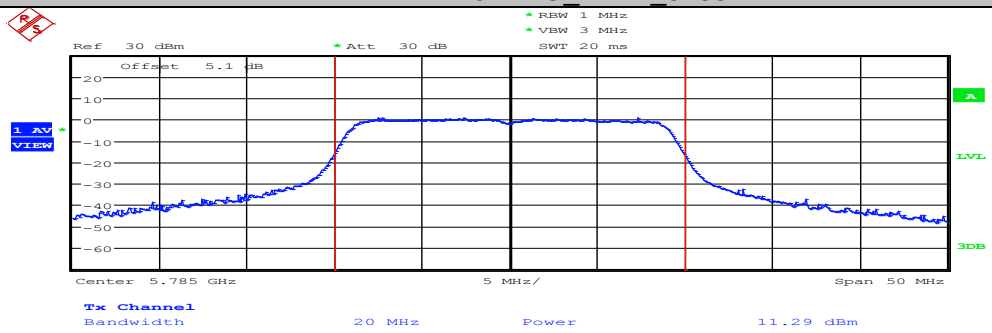

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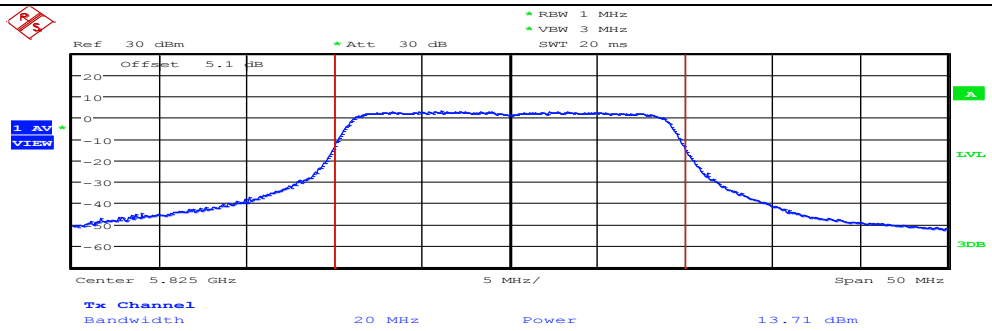

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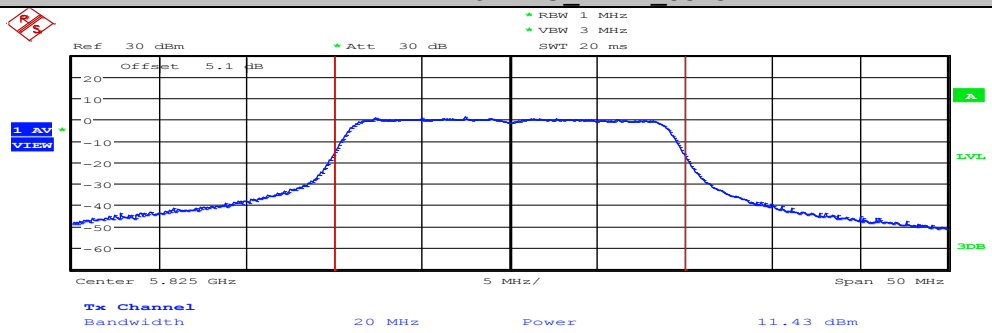

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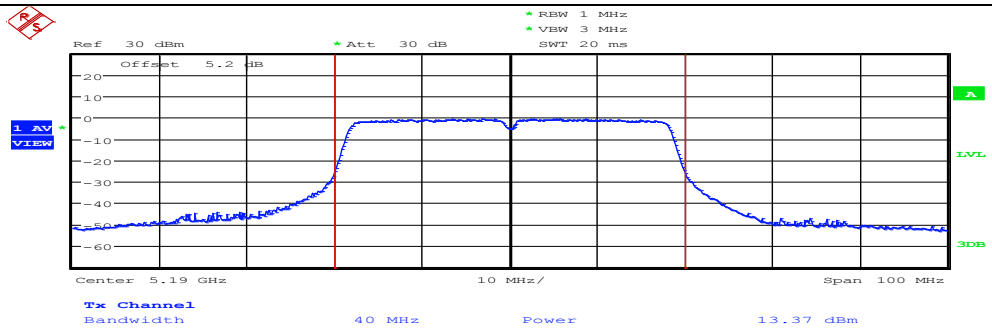

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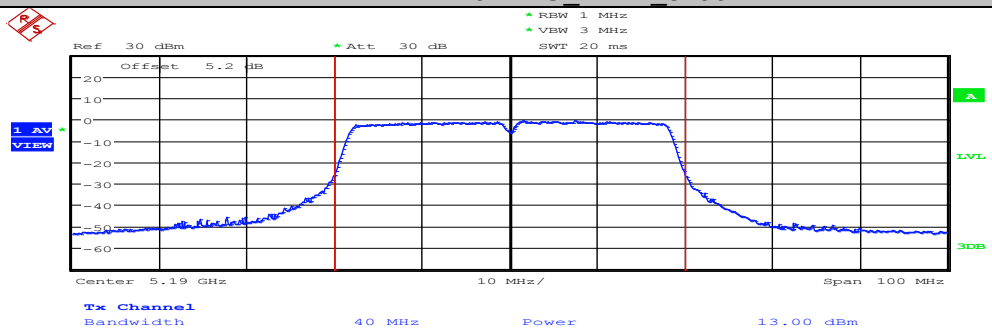

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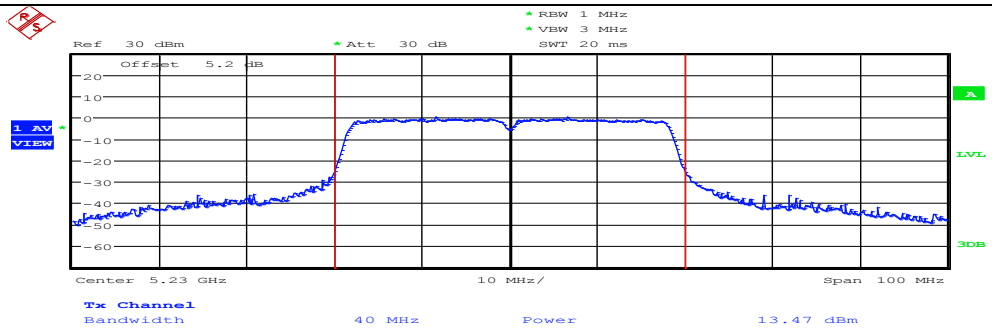

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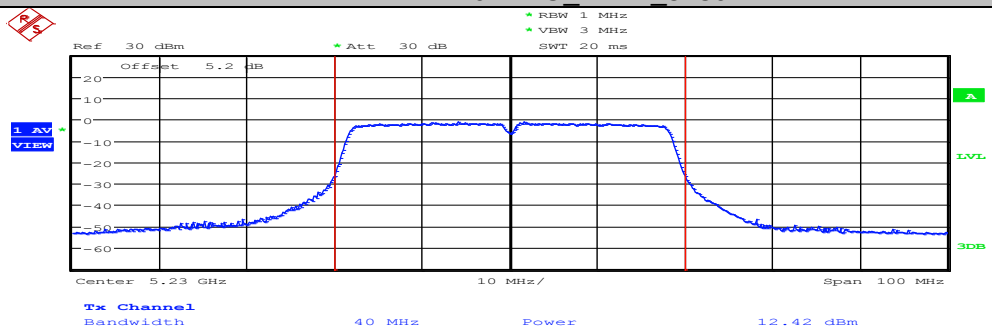

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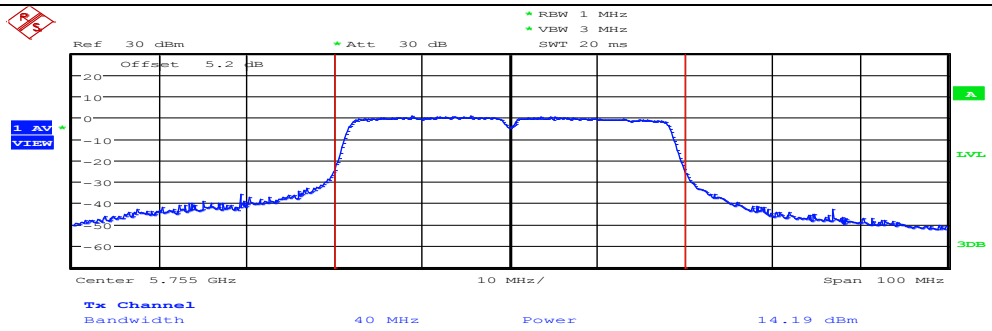

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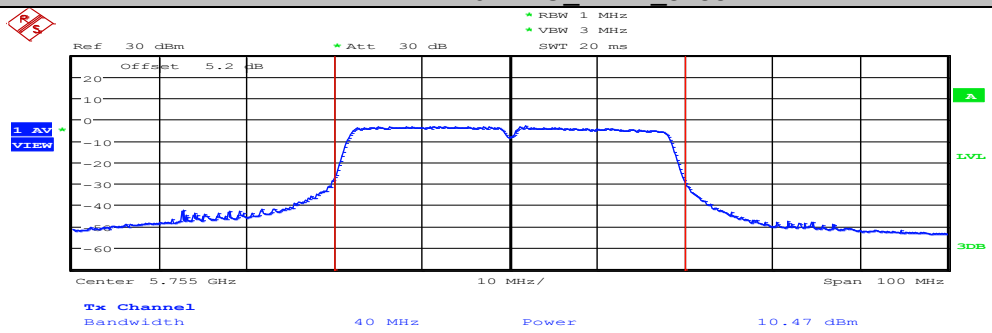

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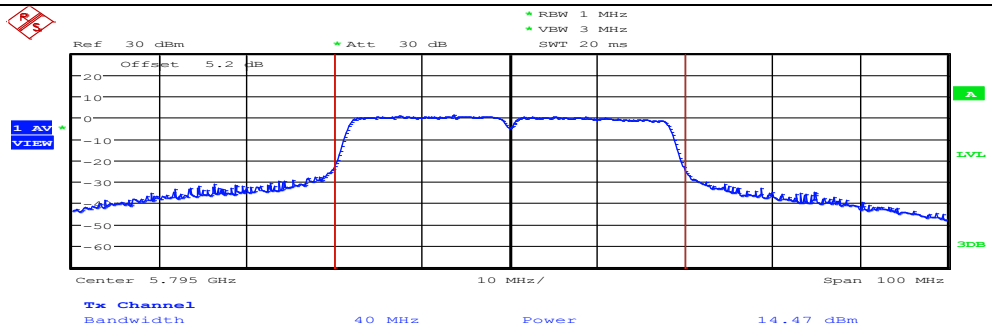

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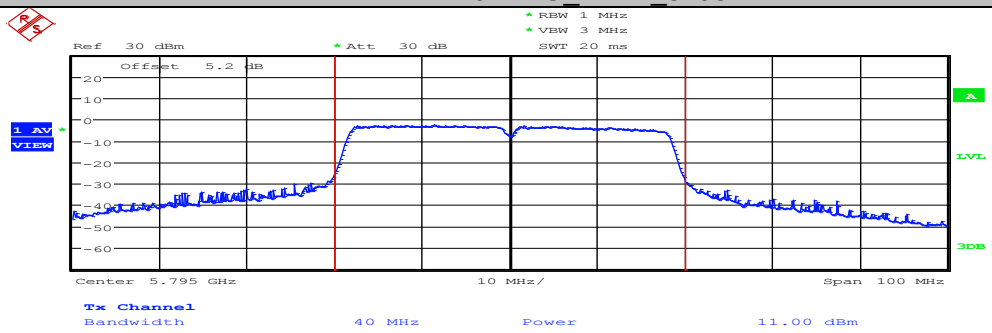

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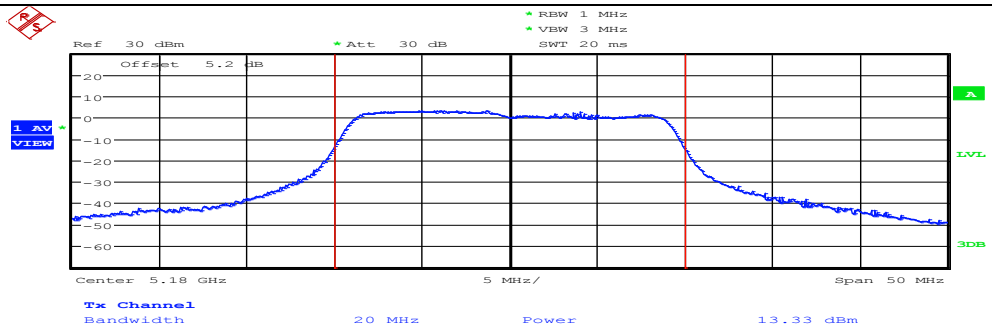

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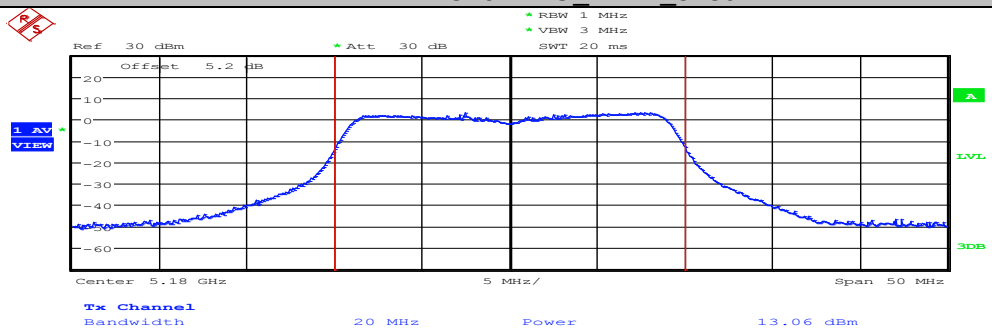

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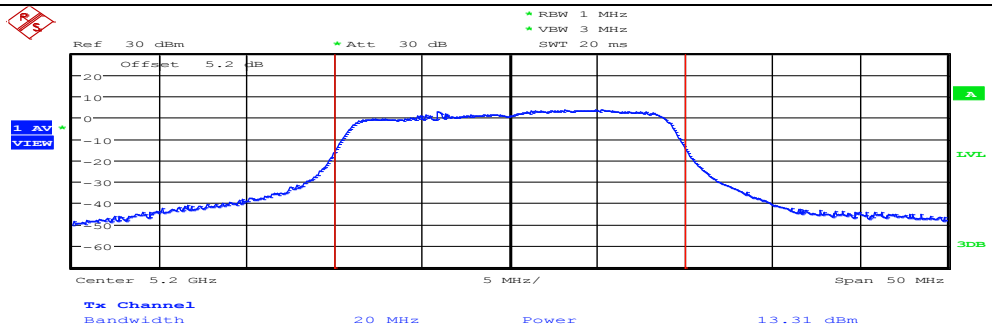

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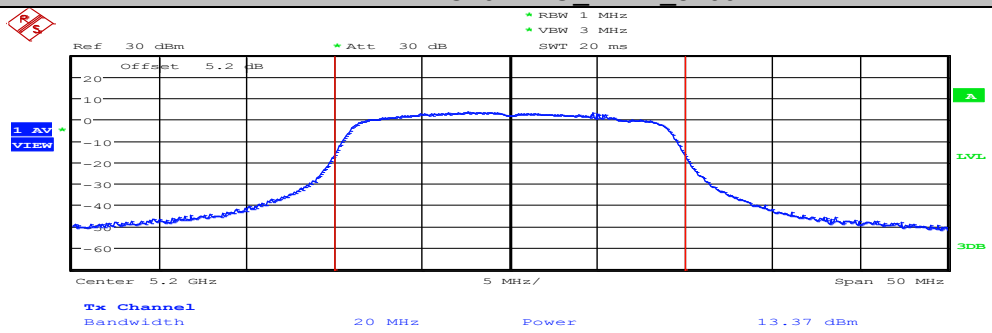

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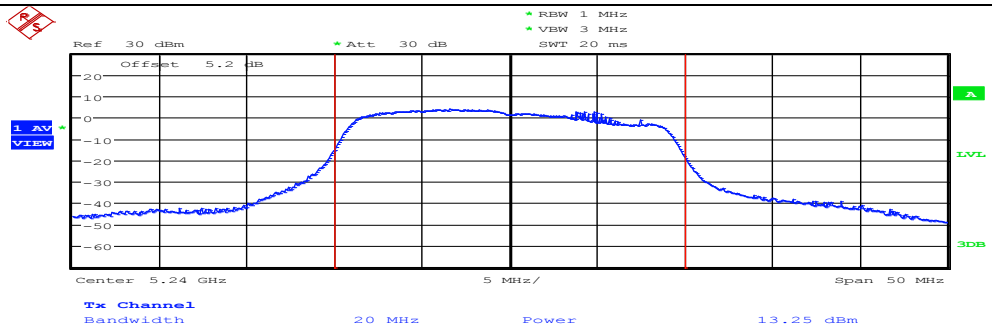

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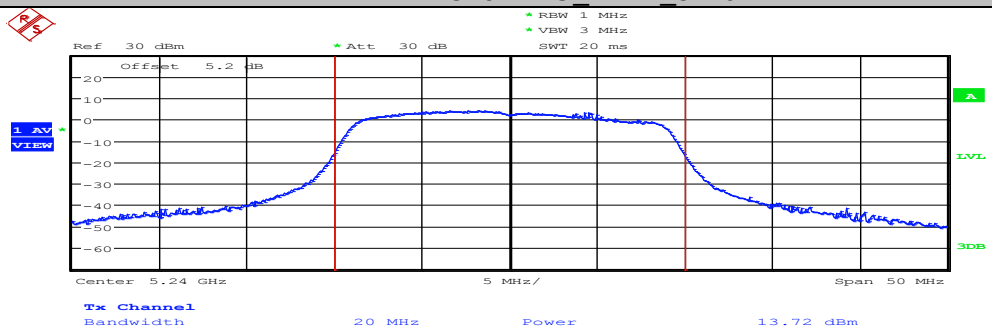

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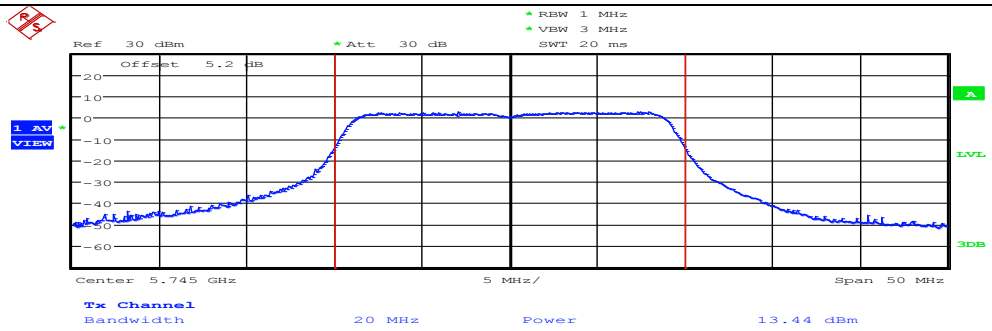

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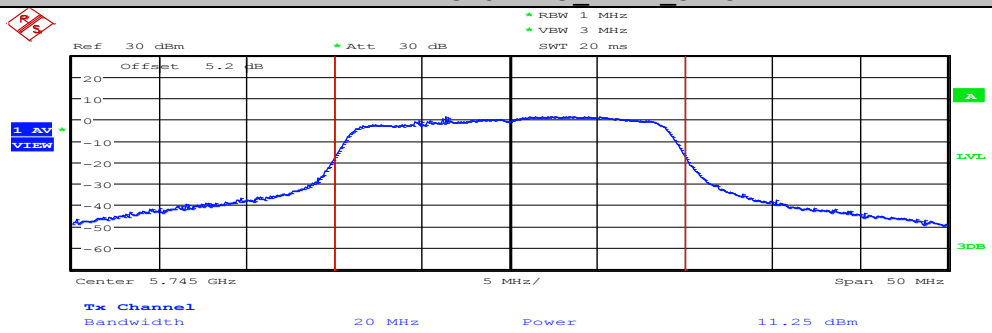

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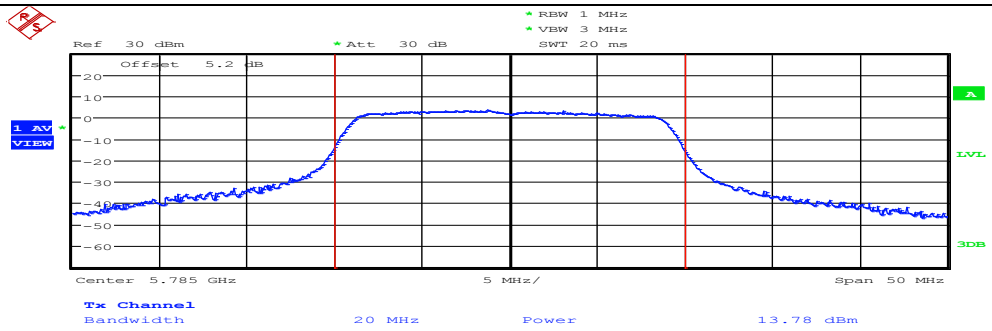

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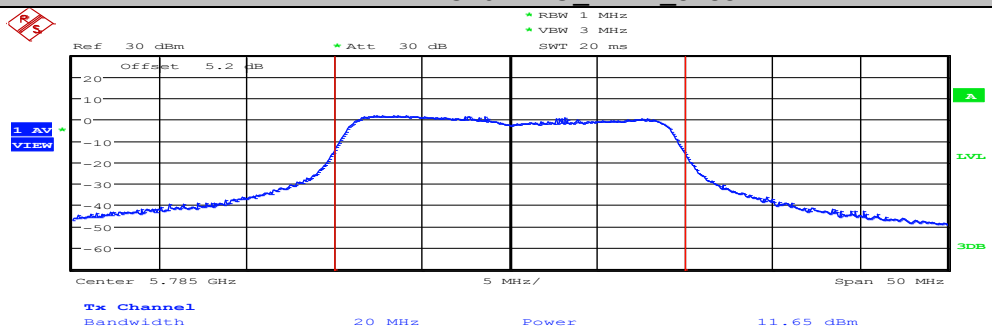

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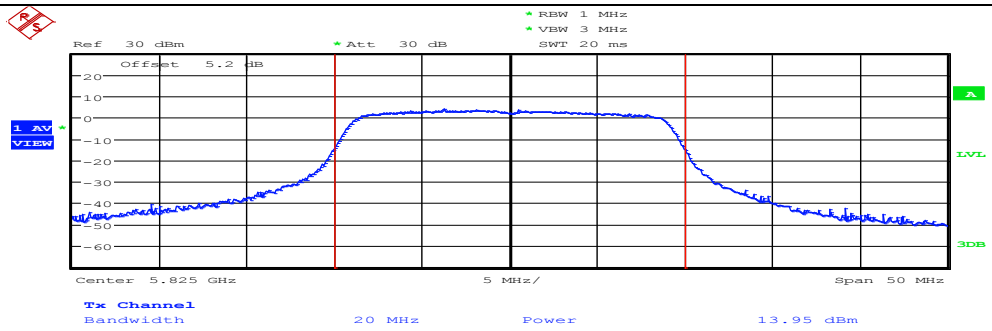

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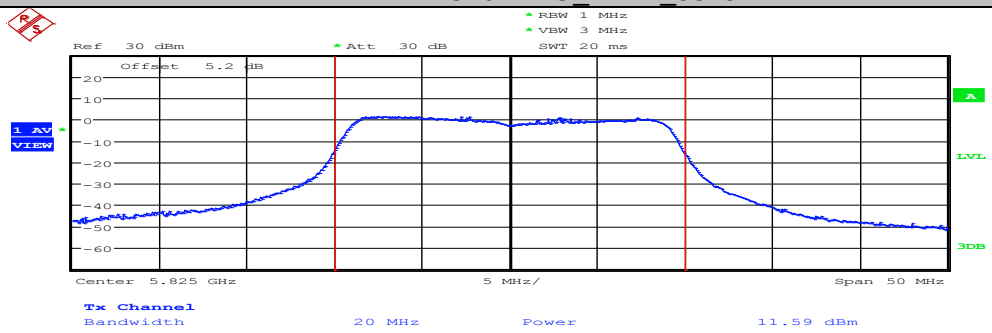

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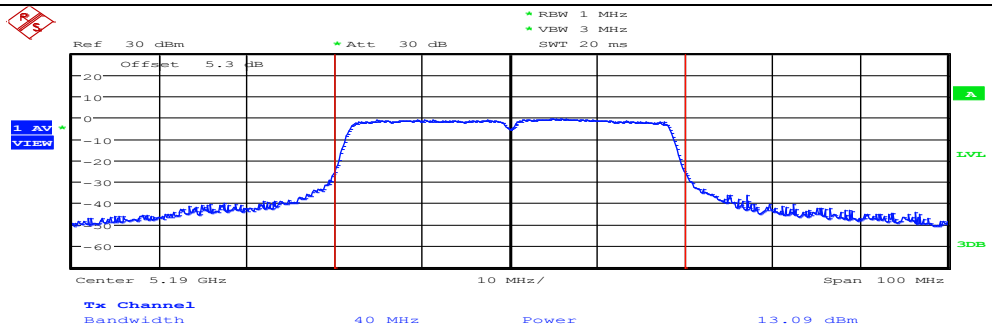

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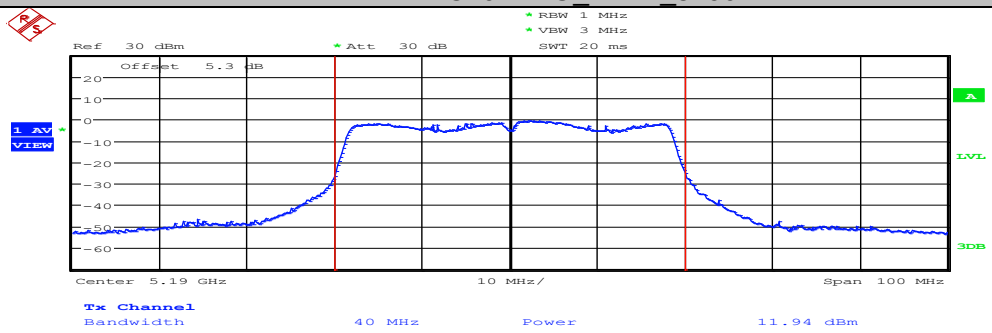

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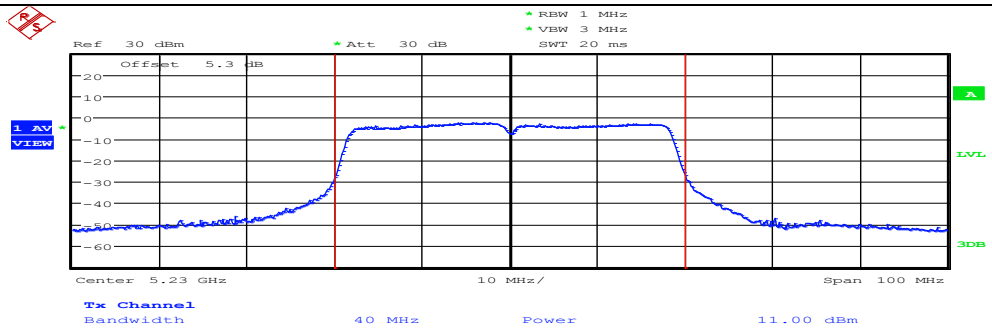

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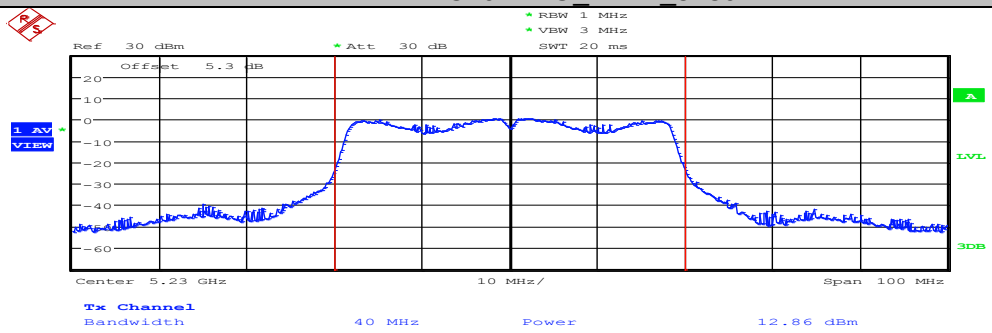

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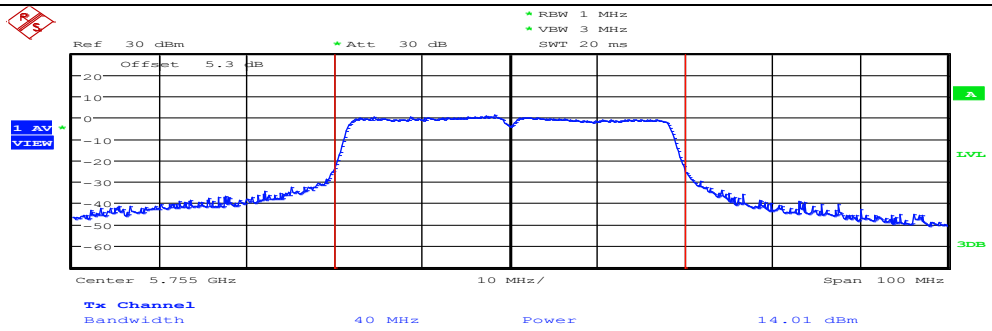

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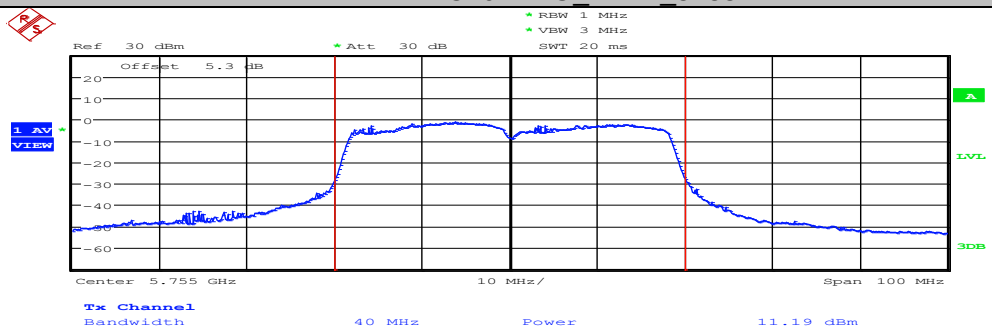

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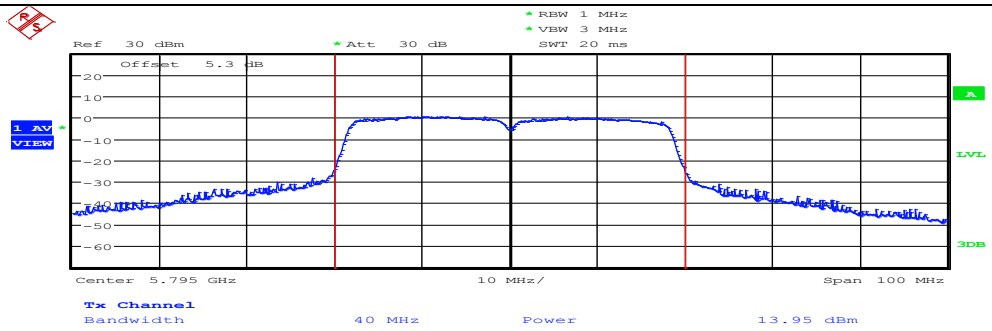

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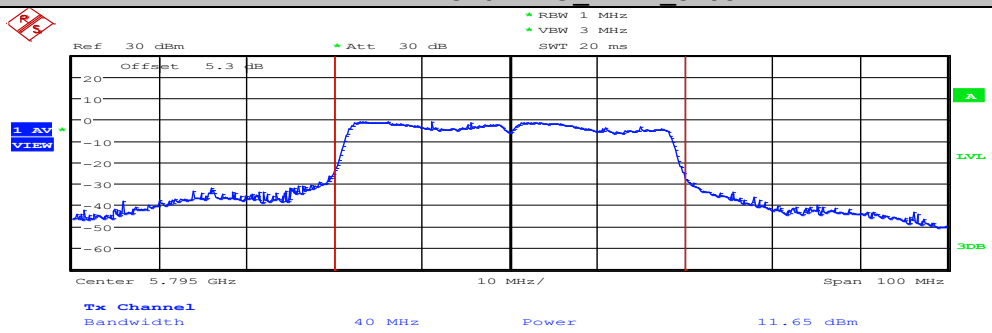

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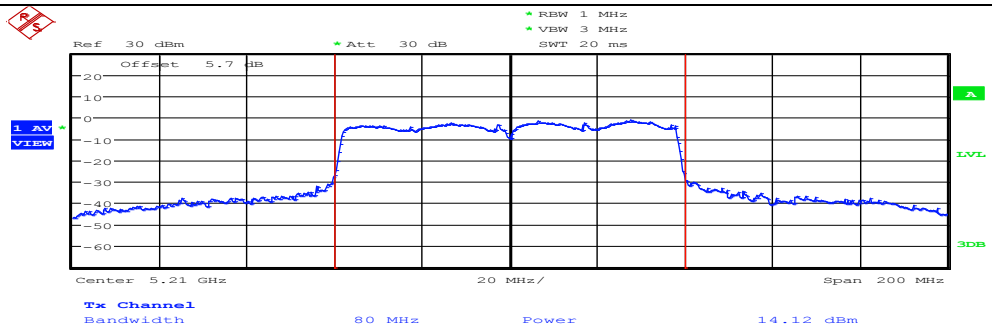

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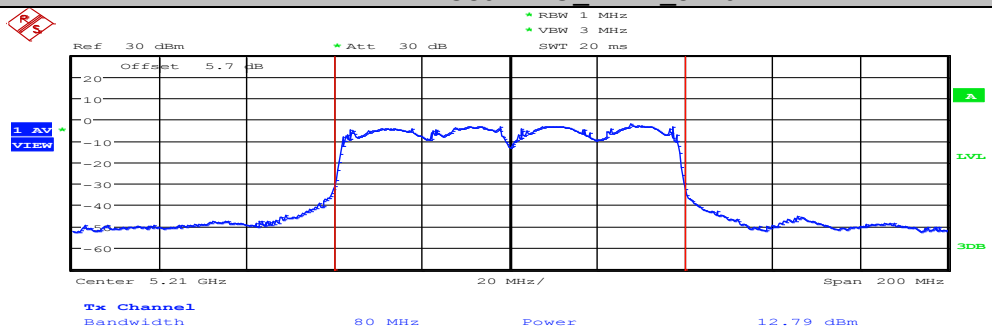

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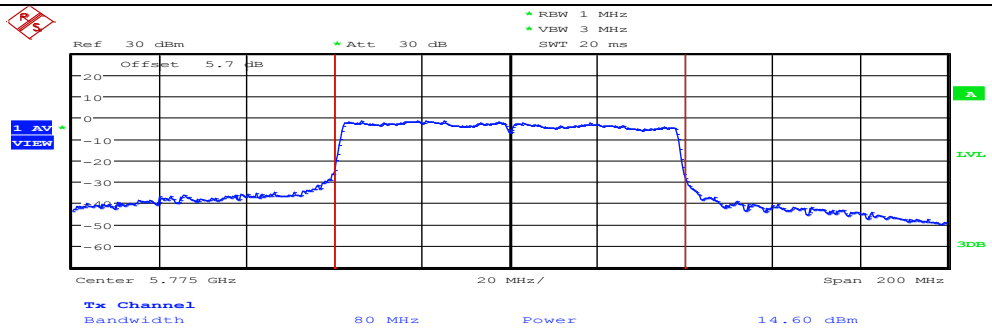

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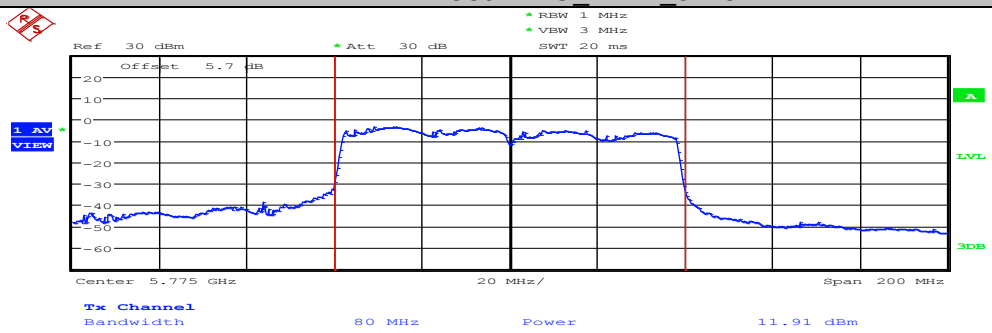

Date: 19.NOV.2018 07:39:13

6. Power Spectral Density

6.1. Block diagram of test setup

Same with 4.1

6.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For 802.11a: 17dBm/MHz For 802.11n and 802.11ac: 17dBm/MHz	5150-5250
	For 802.11a: 30dBm/500kHz For 802.11n and 802.11ac: 30dBm/500kHz	5725-5850
Note: For 802.11n and 802.11ac, the EUT incorporates a MIMO function. The Antenna directional gain is 3dBi.		

6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, use the following settings:
5150MHz~5250MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725MHz-5850MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

6.4. Test Result

Test Mode	Antenna	Channel [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	ANT1	5180	5.14	17	PASS
11A	ANT1	5200	5.25	17	PASS
11A	ANT1	5240	4.96	17	PASS
11A	ANT1	5745	3.32	30	PASS
11A	ANT1	5785	3.68	30	PASS
11A	ANT1	5825	3.72	30	PASS
11N20MIMO	ANT1	5180	3.10	17	PASS
11N20MIMO	ANT2	5180	3.11	17	PASS
11N20MIMO	total	5180	6.12	17	PASS
11N20MIMO	ANT1	5200	2.89	17	PASS
11N20MIMO	ANT2	5200	3.26	17	PASS
11N20MIMO	total	5200	6.09	17	PASS
11N20MIMO	ANT1	5240	3.30	17	PASS
11N20MIMO	ANT2	5240	3.23	17	PASS
11N20MIMO	total	5240	6.28	17	PASS
11N20MIMO	ANT1	5745	1.70	30	PASS
11N20MIMO	ANT2	5745	-1.03	30	PASS
11N20MIMO	total	5745	3.56	30	PASS
11N20MIMO	ANT1	5785	1.40	30	PASS
11N20MIMO	ANT2	5785	-0.79	30	PASS
11N20MIMO	total	5785	3.45	30	PASS
11N20MIMO	ANT1	5825	1.64	30	PASS
11N20MIMO	ANT2	5825	-0.79	30	PASS
11N20MIMO	total	5825	3.60	30	PASS
11N40MIMO	ANT1	5190	-1.96	17	PASS
11N40MIMO	ANT2	5190	-0.27	17	PASS
11N40MIMO	total	5190	1.98	17	PASS
11N40MIMO	ANT1	5230	0.32	17	PASS
11N40MIMO	ANT2	5230	-1.30	17	PASS
11N40MIMO	total	5230	2.60	17	PASS
11N40MIMO	ANT1	5755	-1.67	30	PASS
11N40MIMO	ANT2	5755	-4.60	30	PASS
11N40MIMO	total	5755	0.12	30	PASS
11N40MIMO	ANT1	5795	-1.11	30	PASS
11N40MIMO	ANT2	5795	-4.07	30	PASS
11N40MIMO	total	5795	0.67	30	PASS
11AC20MIMO	ANT1	5180	3.41	17	PASS

11AC20MIMO	ANT2	5180	3.40	17	PASS
11AC20MIMO	total	5180	6.42	17	PASS
11AC20MIMO	ANT1	5200	3.60	17	PASS
11AC20MIMO	ANT2	5200	3.55	17	PASS
11AC20MIMO	total	5200	6.59	17	PASS
11AC20MIMO	ANT1	5240	3.95	17	PASS
11AC20MIMO	ANT2	5240	4.06	17	PASS
11AC20MIMO	total	5240	7.02	17	PASS
11AC20MIMO	ANT1	5745	1.00	30	PASS
11AC20MIMO	ANT2	5745	-0.76	30	PASS
11AC20MIMO	total	5745	3.22	30	PASS
11AC20MIMO	ANT1	5785	1.18	30	PASS
11AC20MIMO	ANT2	5785	-0.65	30	PASS
11AC20MIMO	total	5785	3.37	30	PASS
11AC20MIMO	ANT1	5825	1.41	30	PASS
11AC20MIMO	ANT2	5825	-0.62	30	PASS
11AC20MIMO	total	5825	3.52	30	PASS
11AC40MIMO	ANT1	5190	-0.41	17	PASS
11AC40MIMO	ANT2	5190	-0.15	17	PASS
11AC40MIMO	total	5190	2.73	17	PASS
11AC40MIMO	ANT1	5230	-2.03	17	PASS
11AC40MIMO	ANT2	5230	0.74	17	PASS
11AC40MIMO	total	5230	2.58	17	PASS
11AC40MIMO	ANT1	5755	-1.36	30	PASS
11AC40MIMO	ANT2	5755	-3.75	30	PASS
11AC40MIMO	total	5755	0.62	30	PASS
11AC40MIMO	ANT1	5795	-1.49	30	PASS
11AC40MIMO	ANT2	5795	-2.99	30	PASS
11AC40MIMO	total	5795	0.83	30	PASS
11AC80MIMO	ANT1	5210	-1.32	17	PASS
11AC80MIMO	ANT2	5210	-2.57	17	PASS
11AC80MIMO	total	5210	1.11	17	PASS
11AC80MIMO	ANT1	5775	-3.73	30	PASS
11AC80MIMO	ANT2	5775	-5.82	30	PASS
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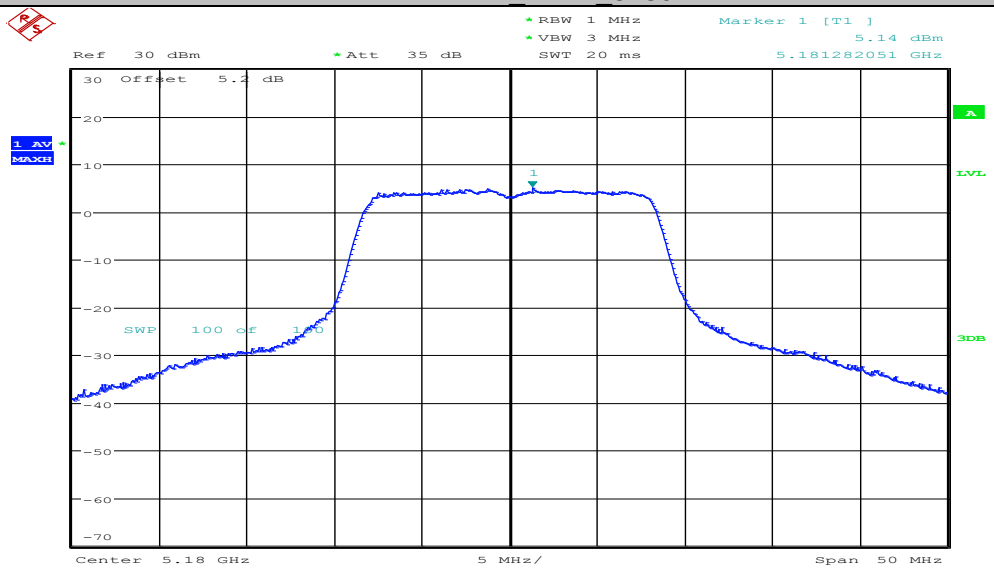
6.5. Original test data

11A_ANT1_5180



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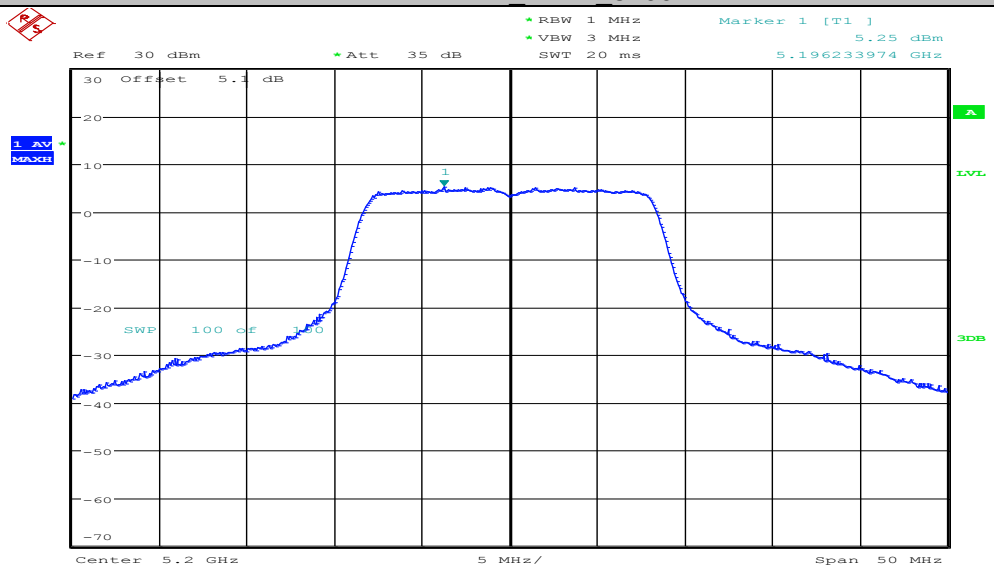

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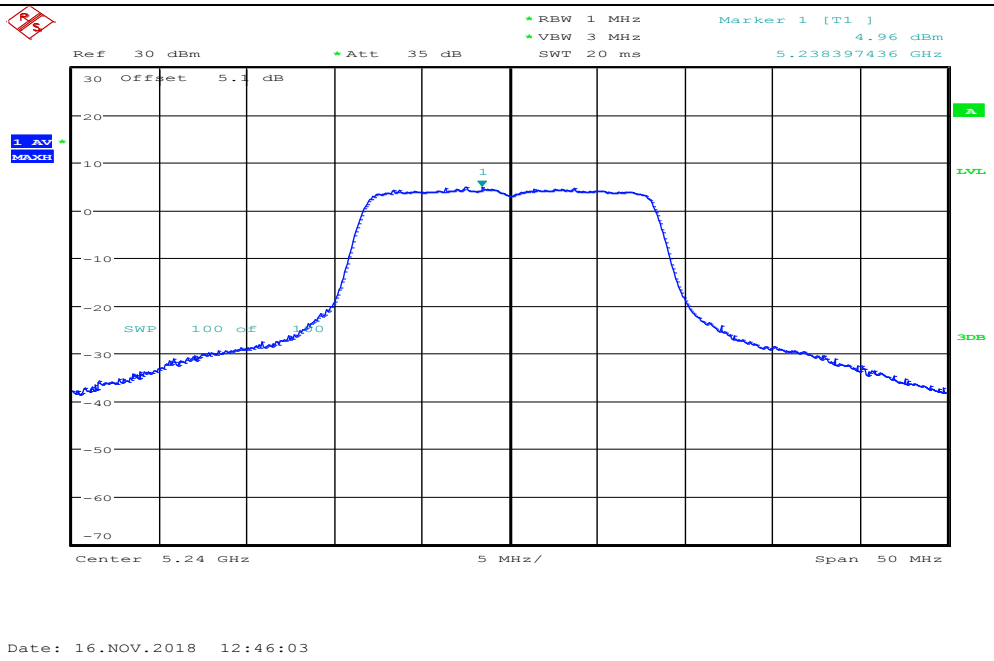

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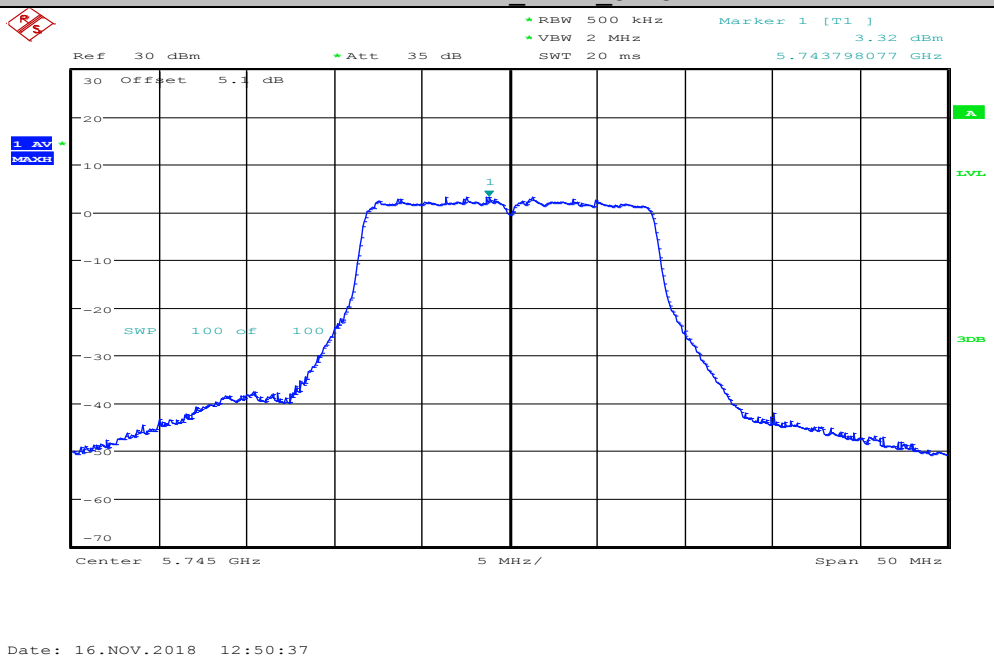

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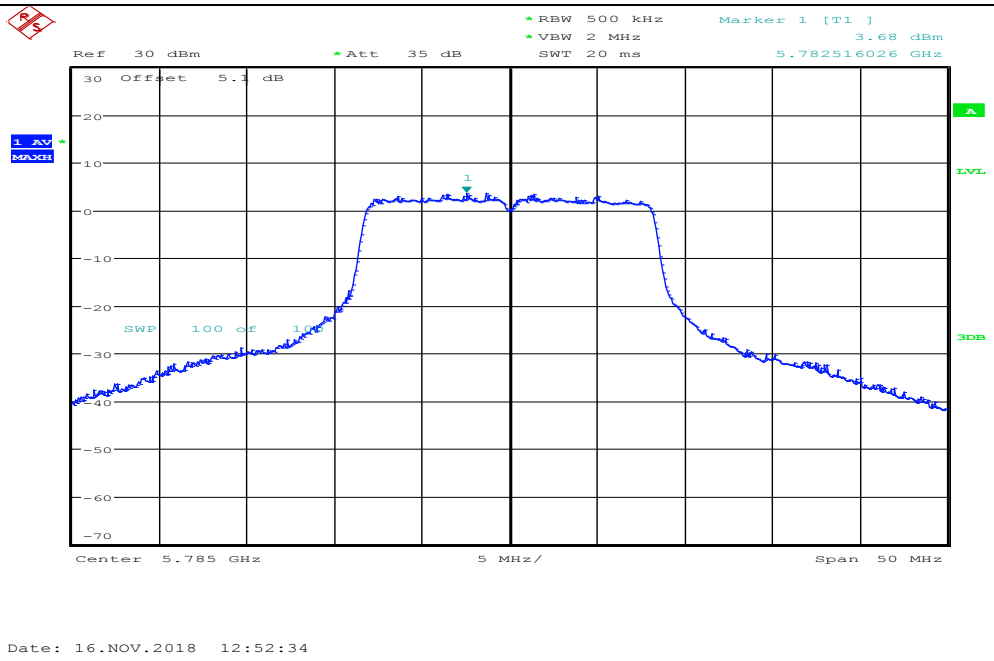

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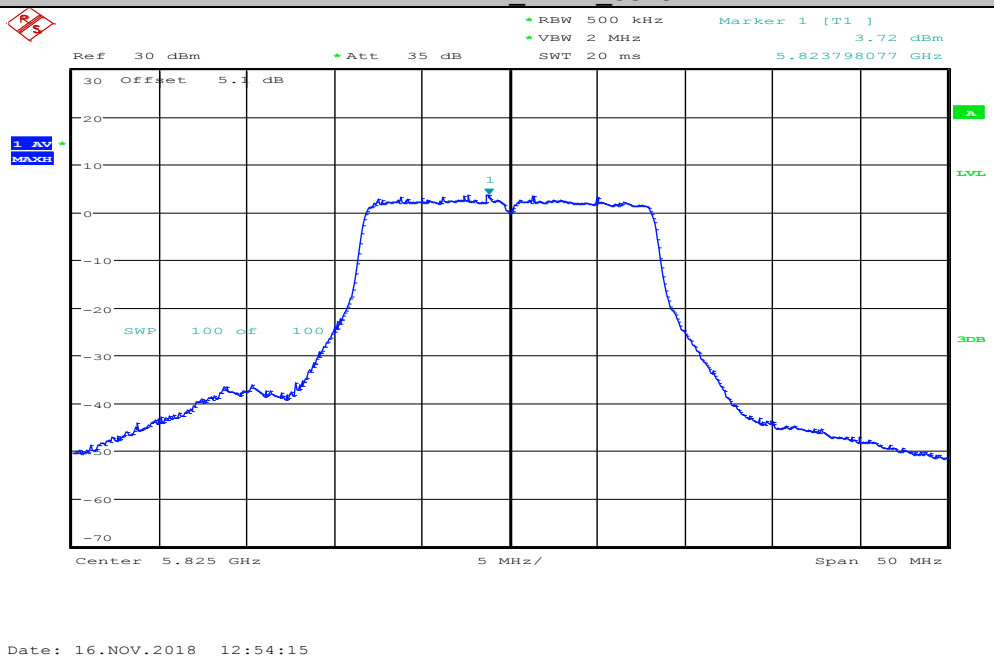

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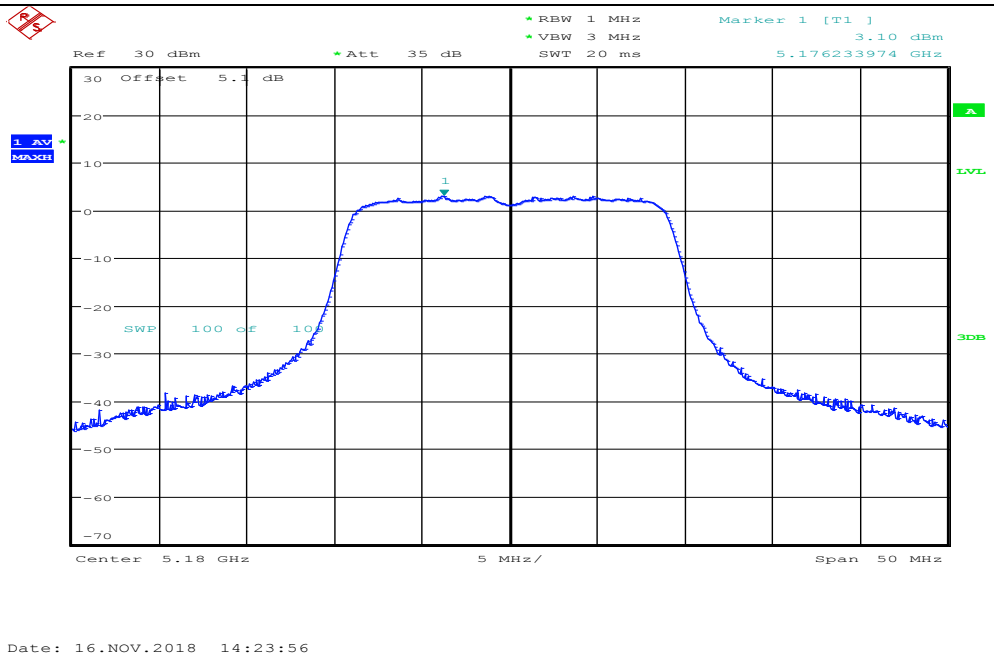

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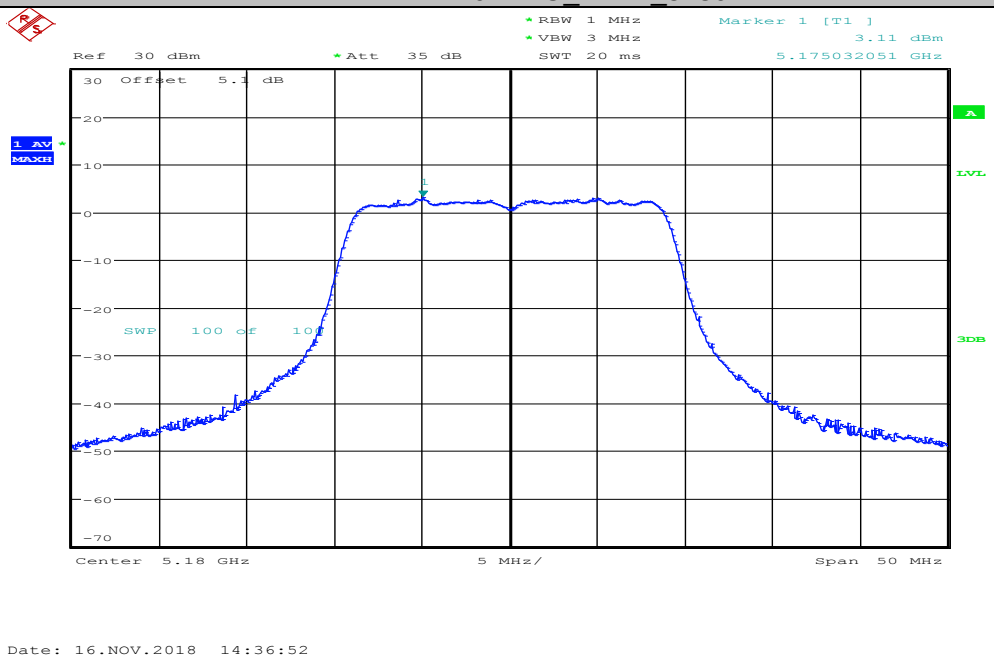

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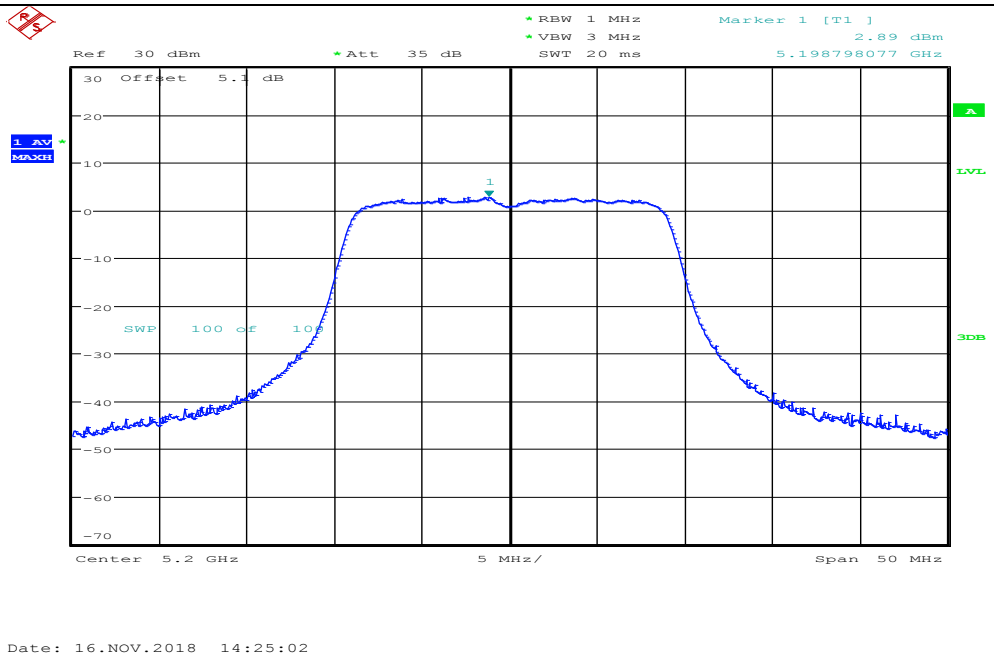

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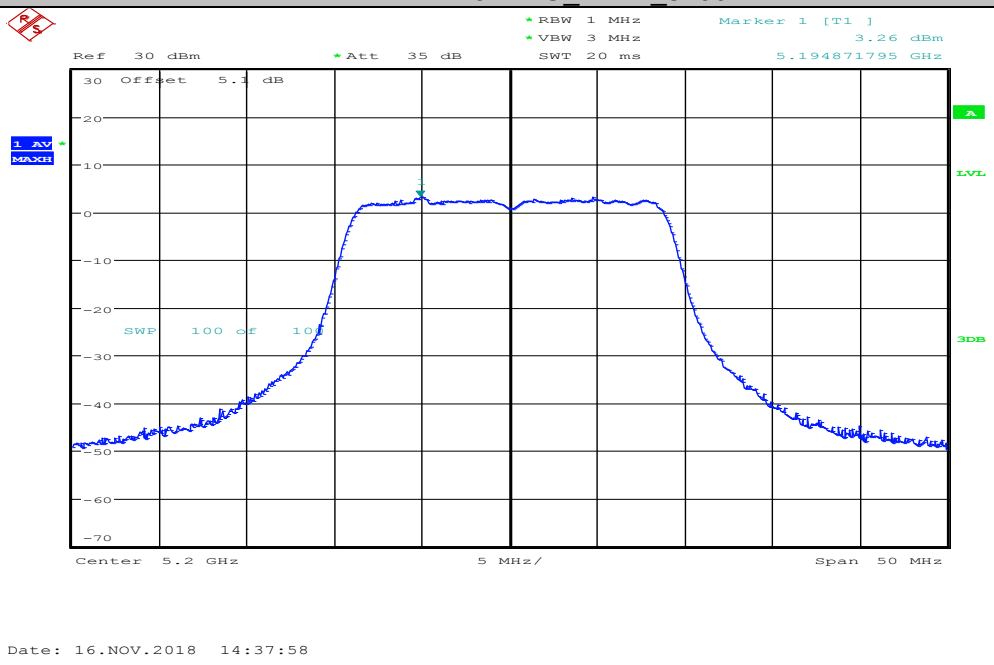

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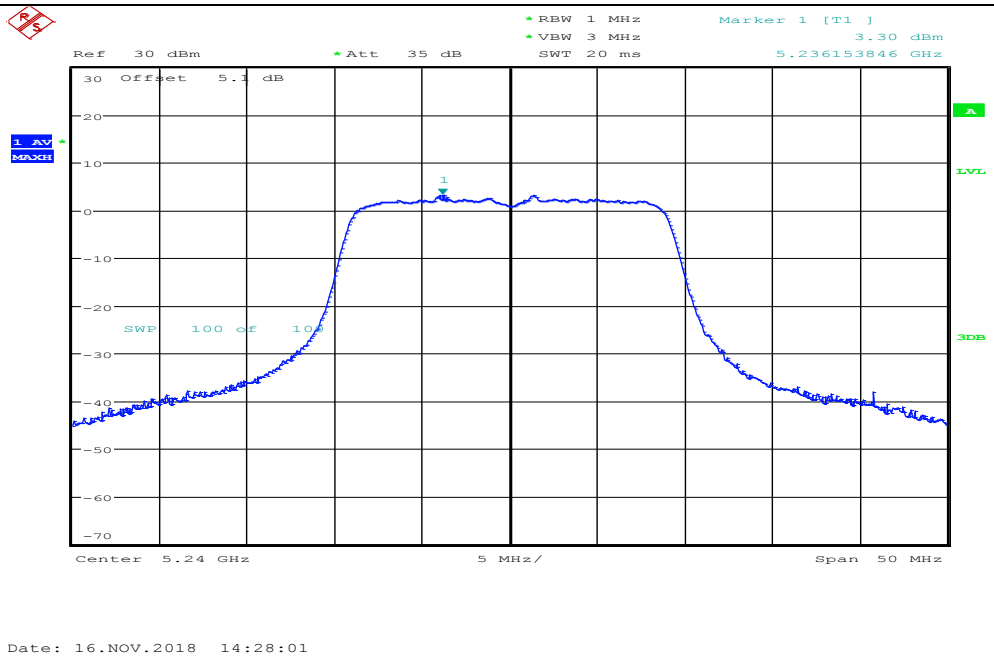

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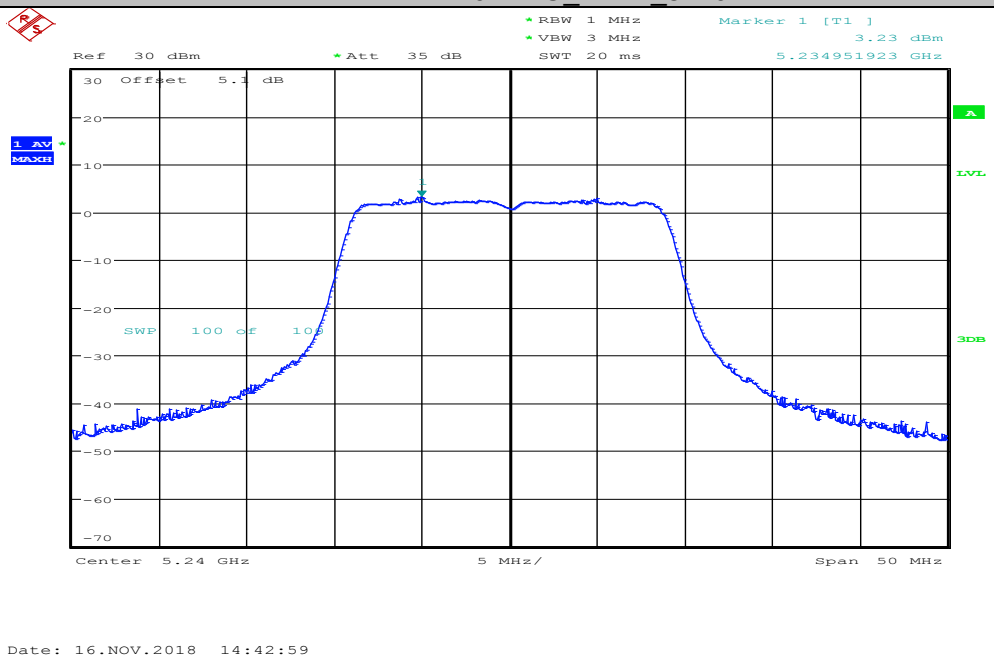

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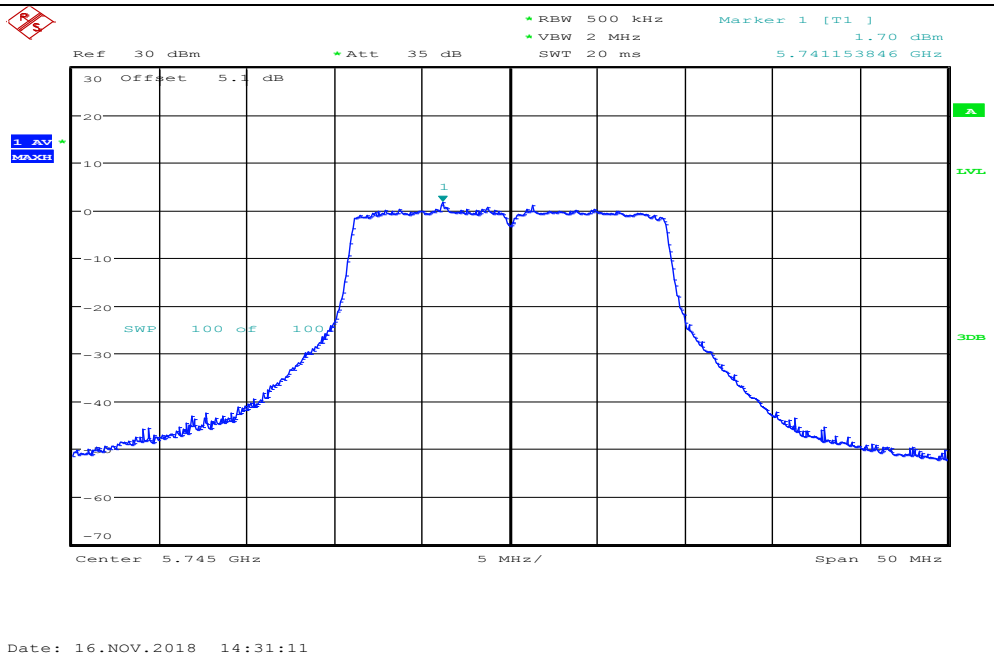

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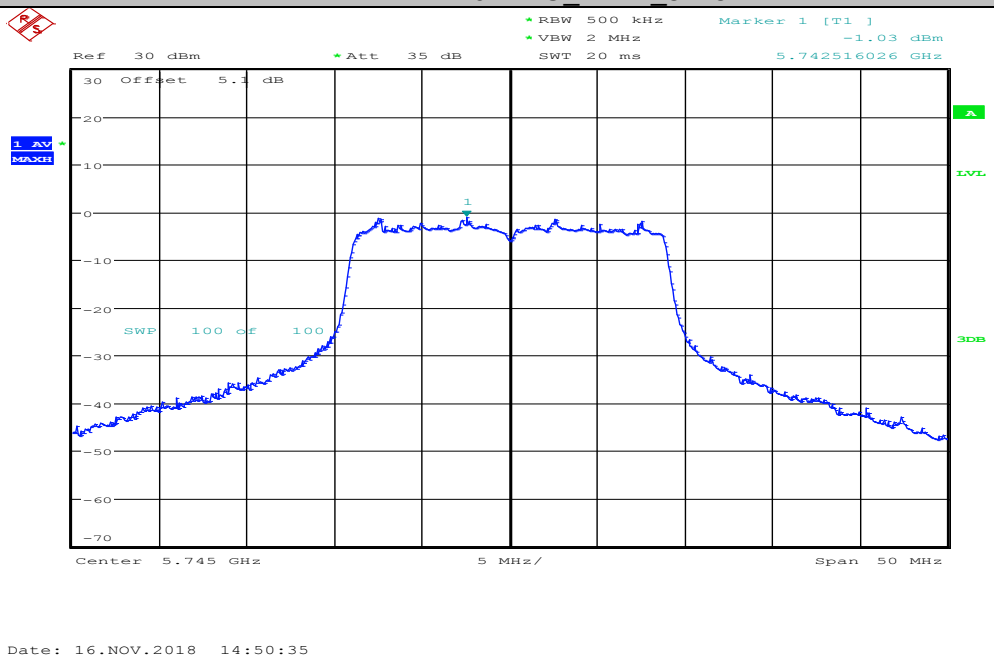

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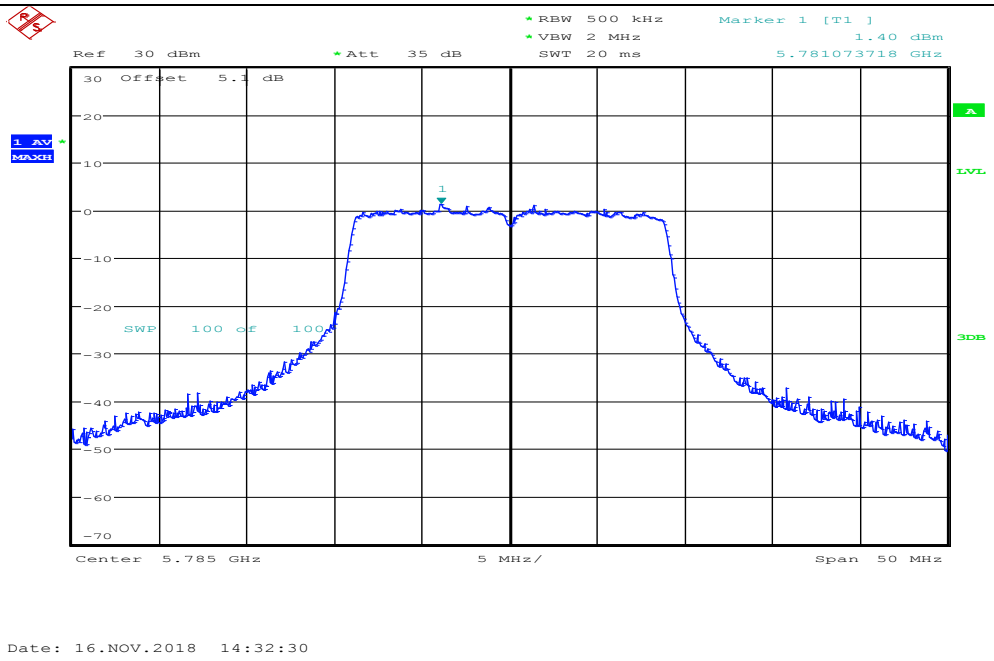

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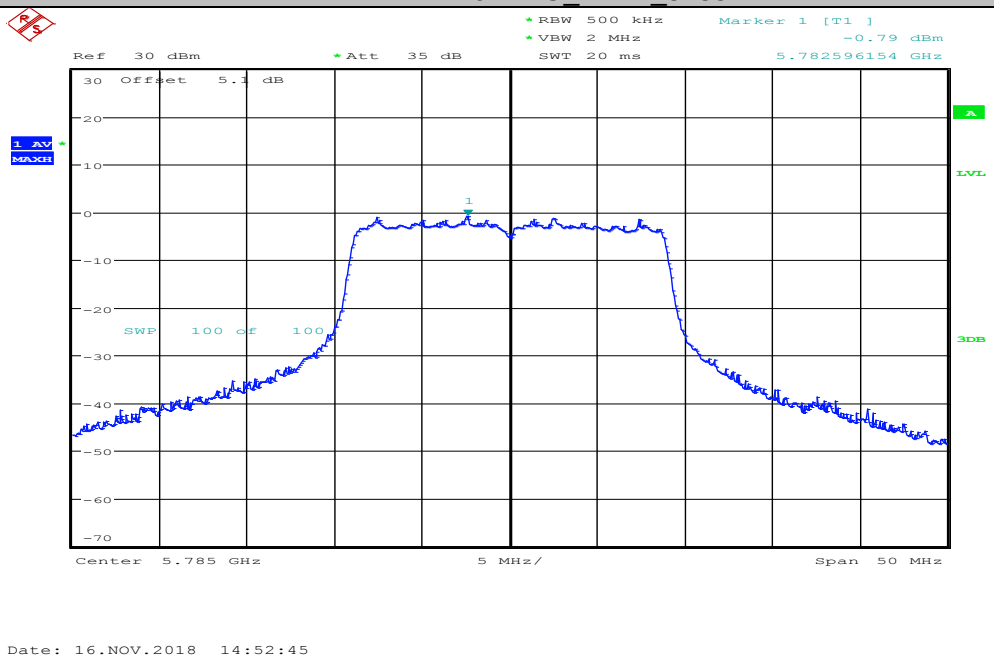

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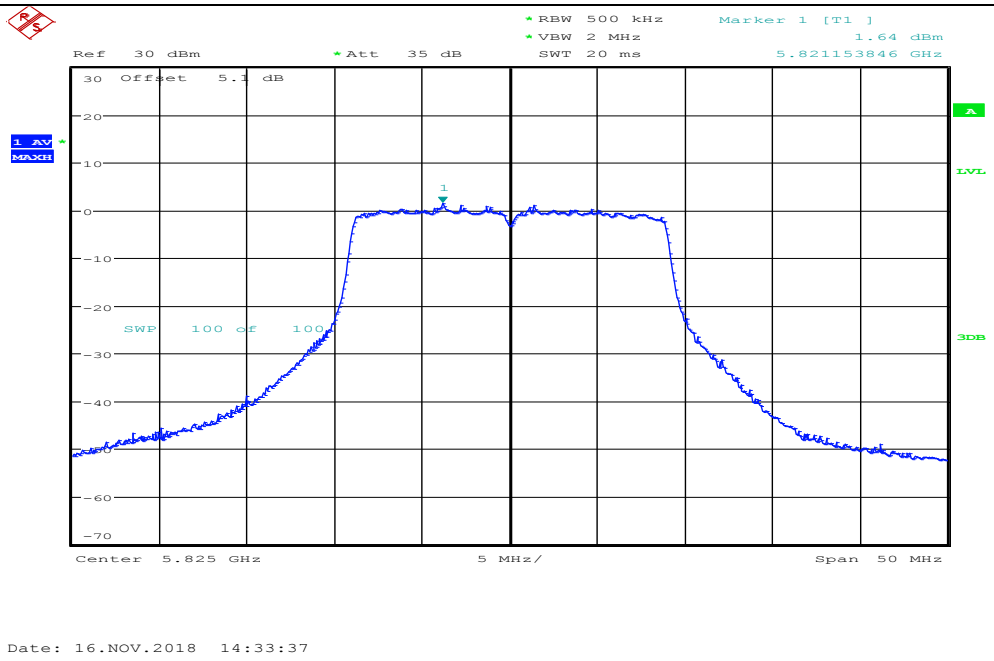

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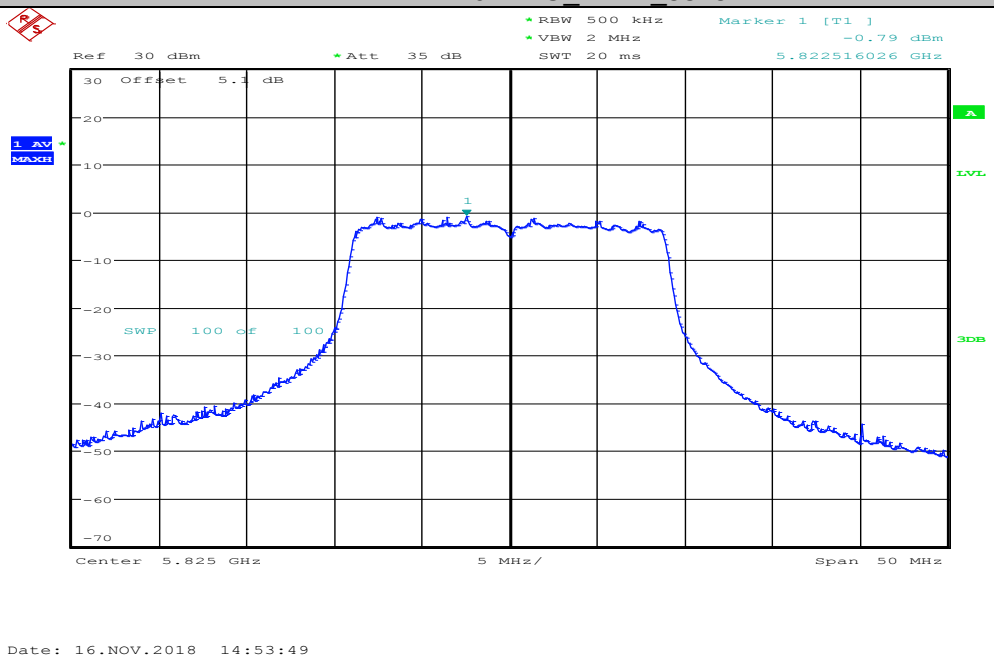

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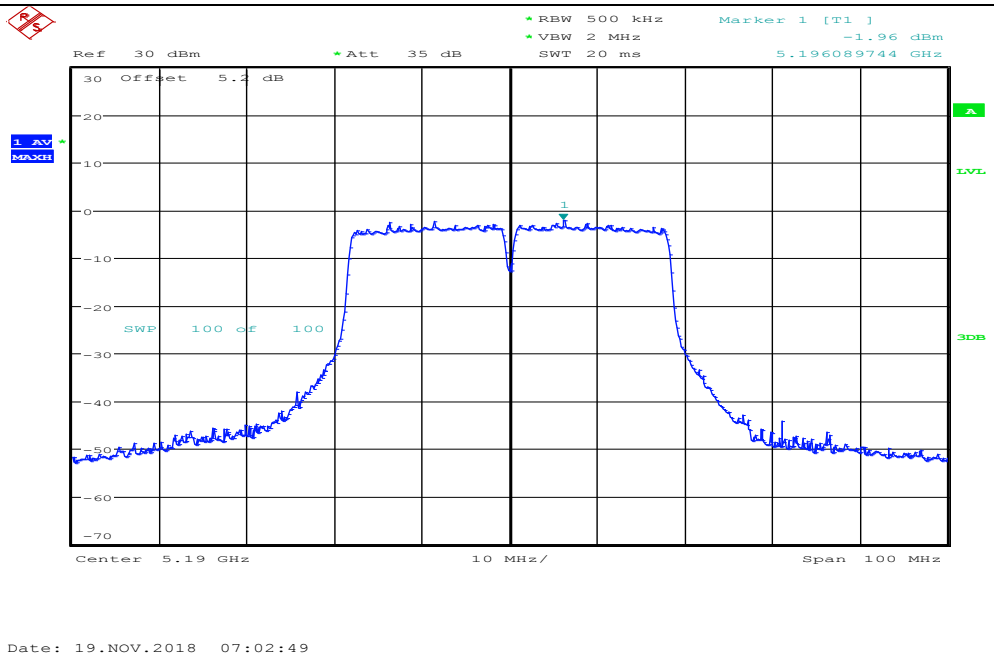

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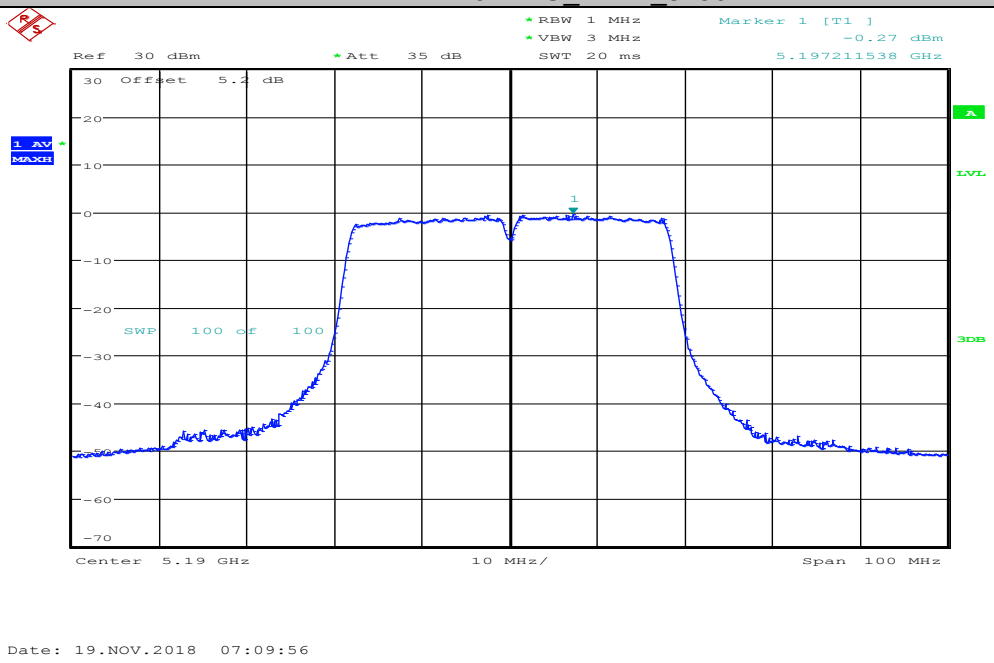

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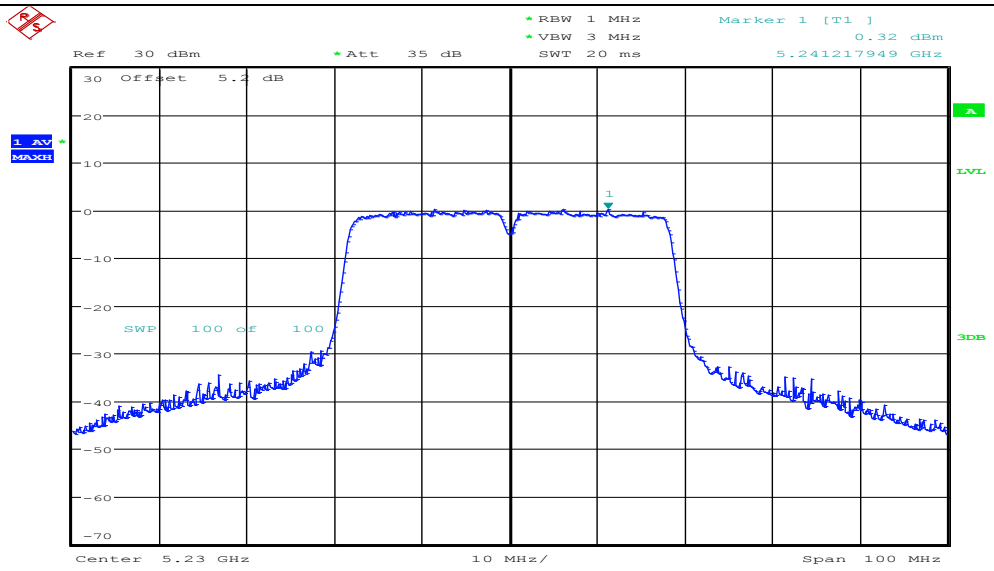

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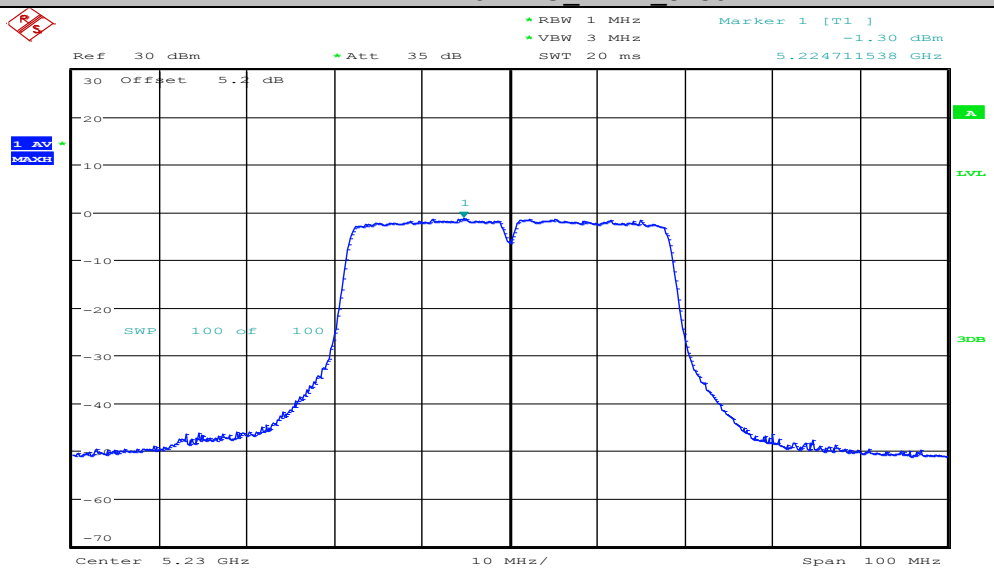

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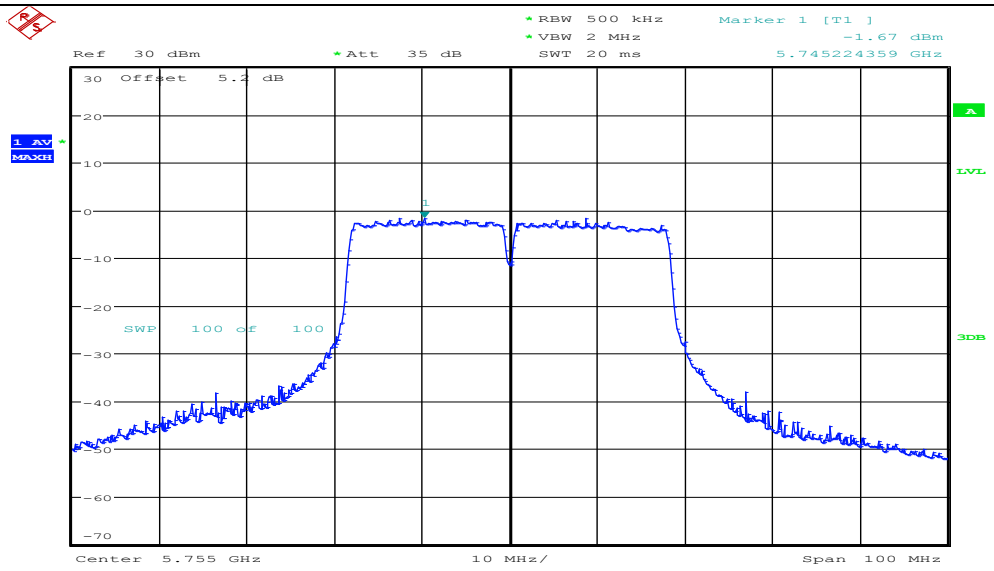

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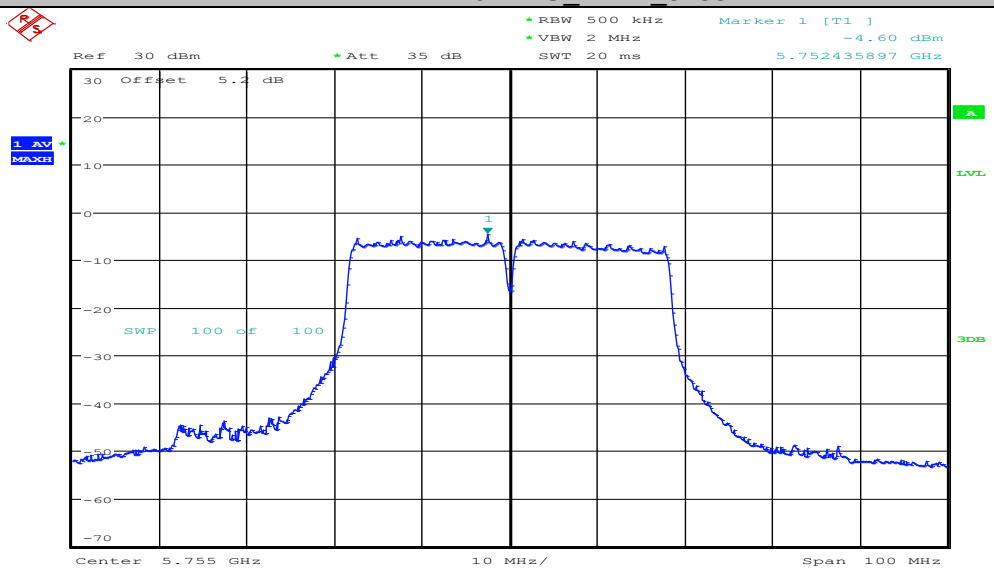

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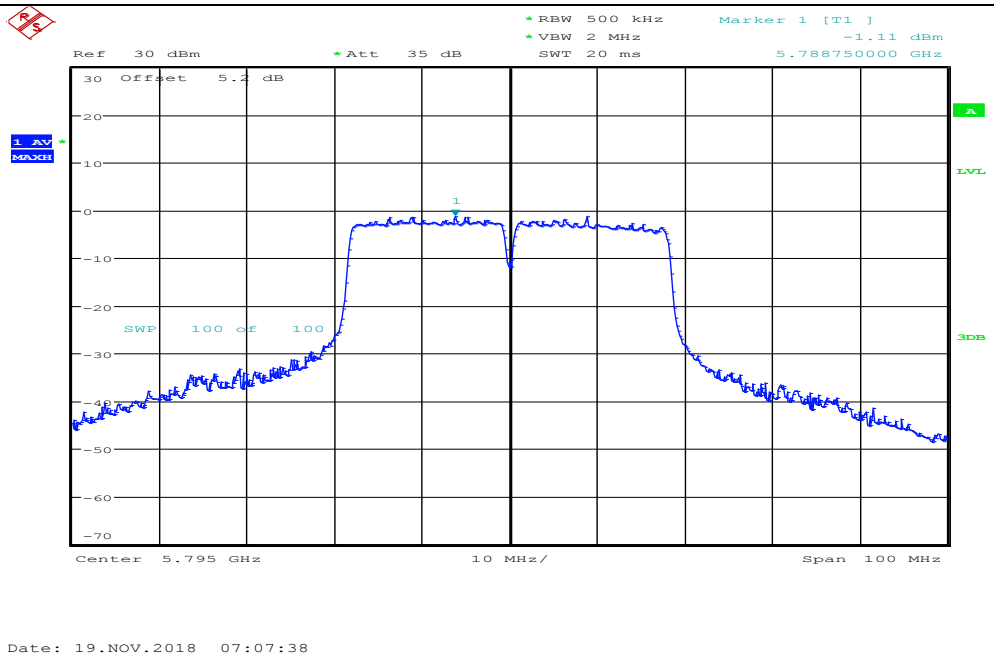

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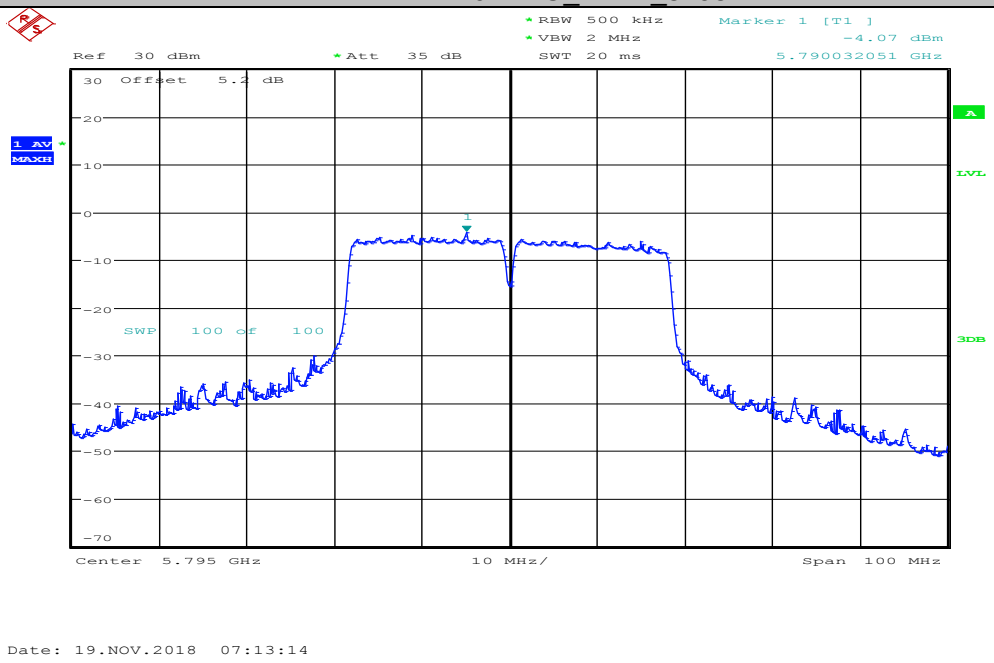

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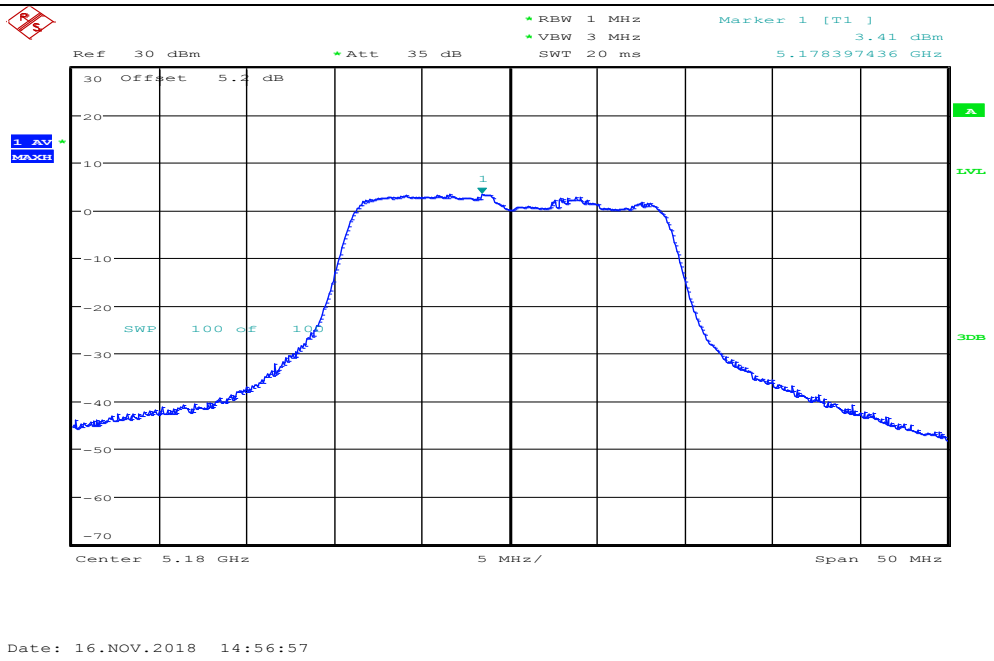

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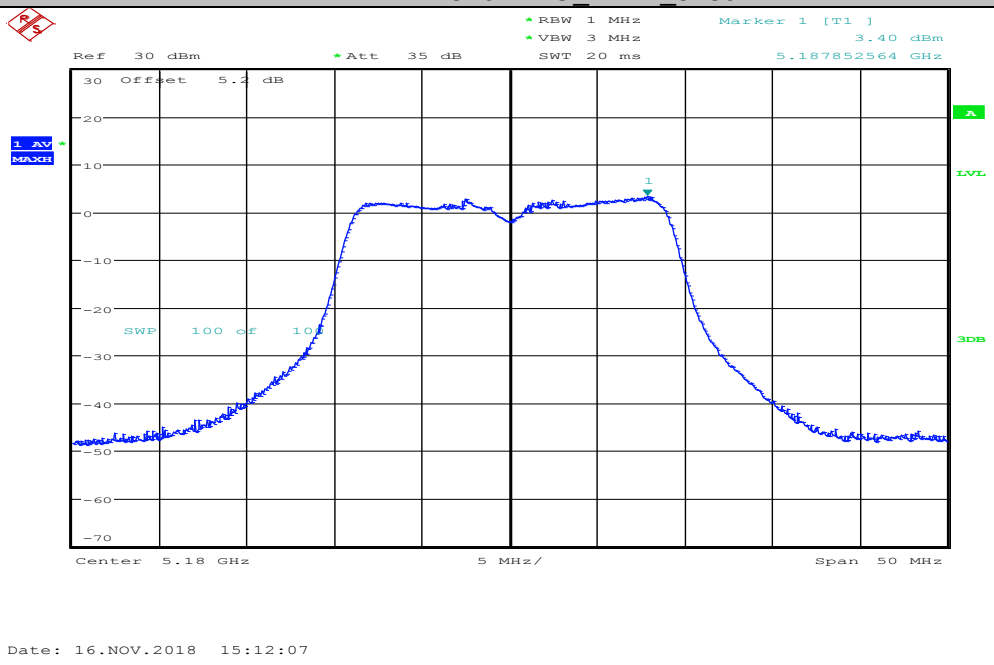

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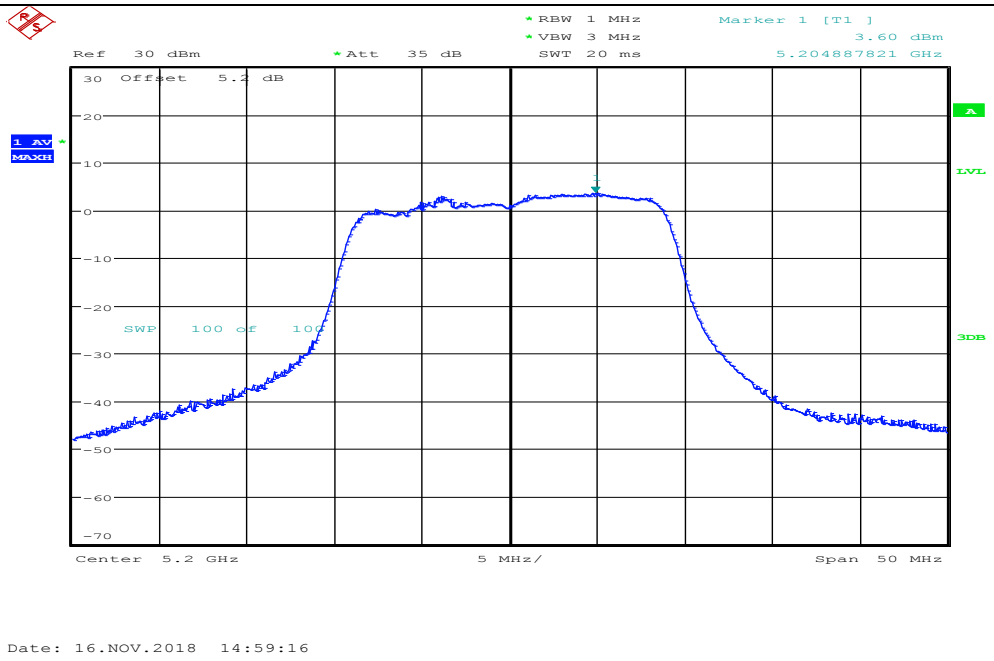

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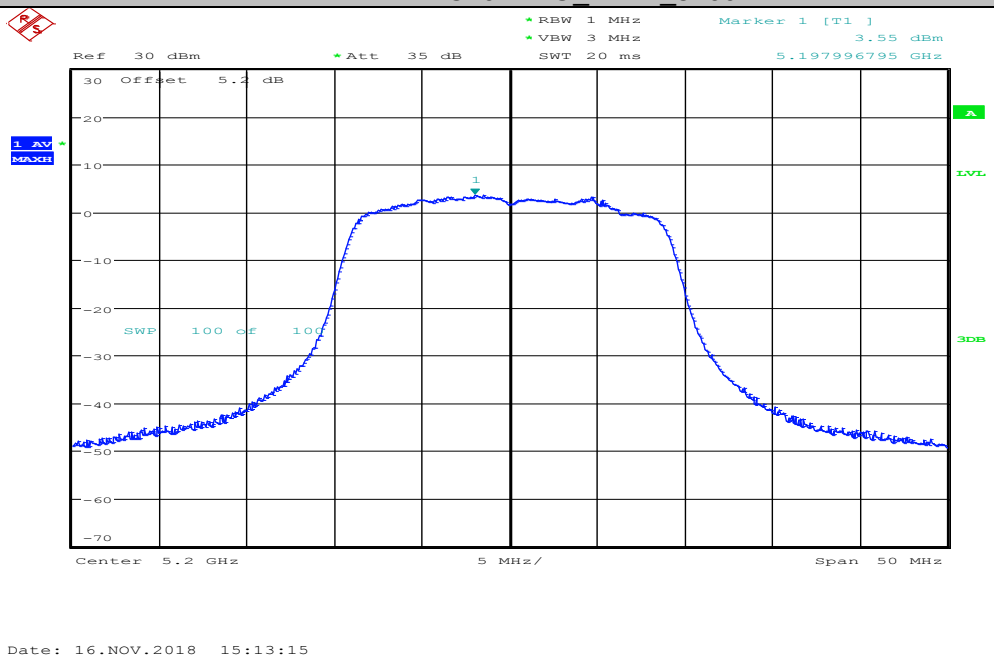

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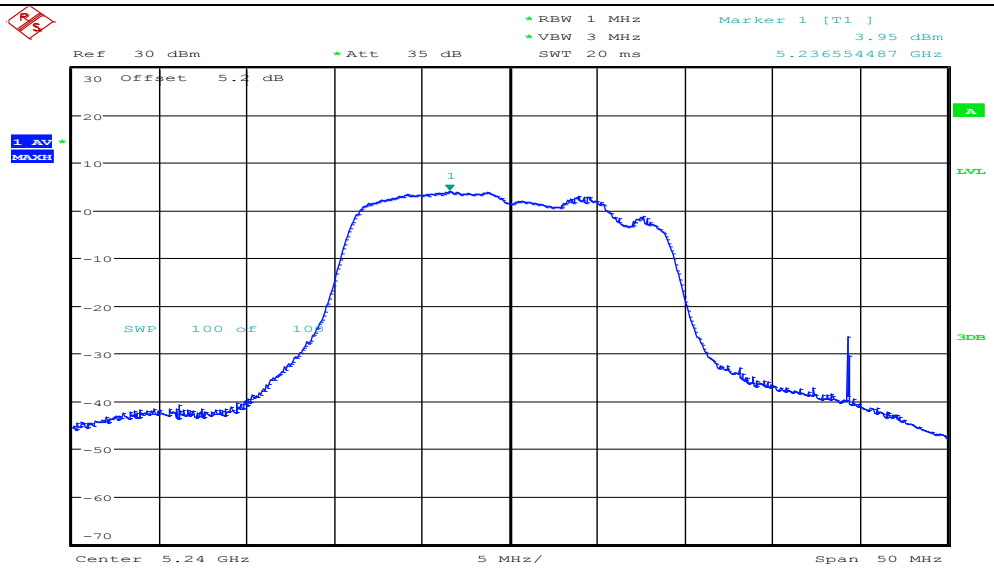

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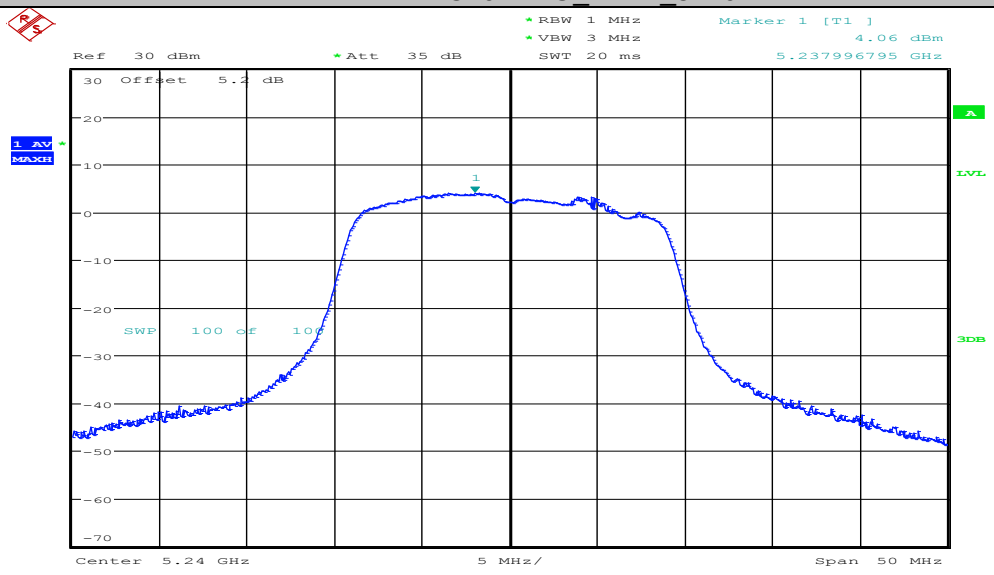

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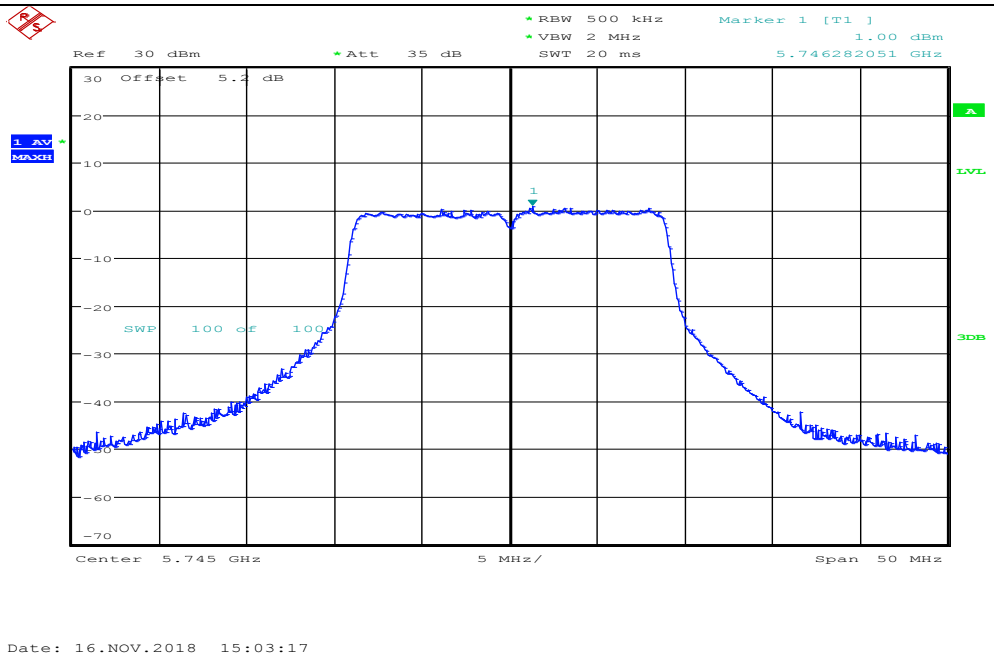

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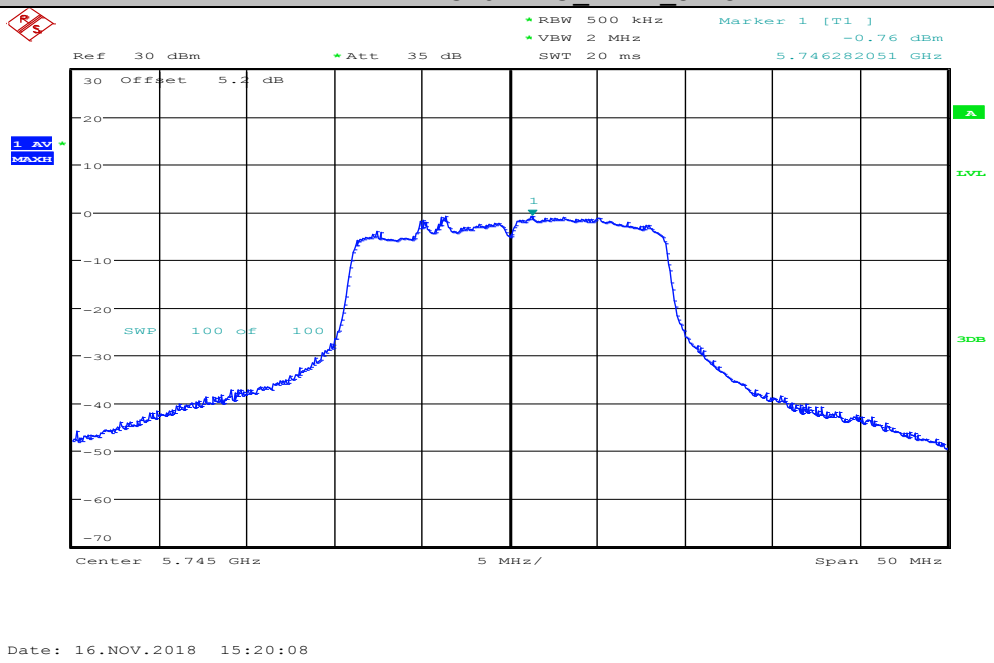

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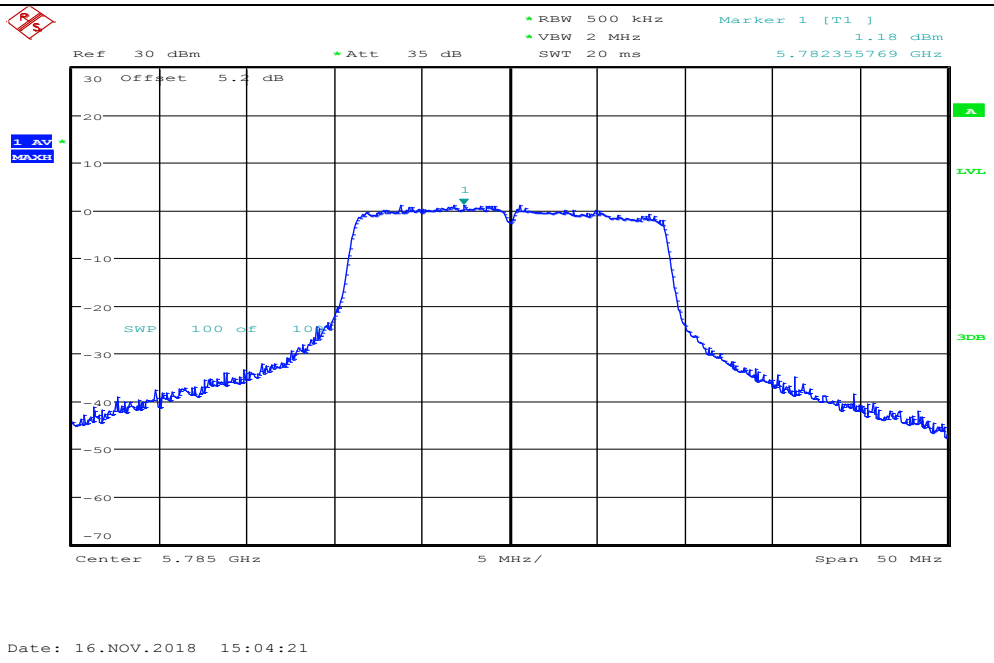

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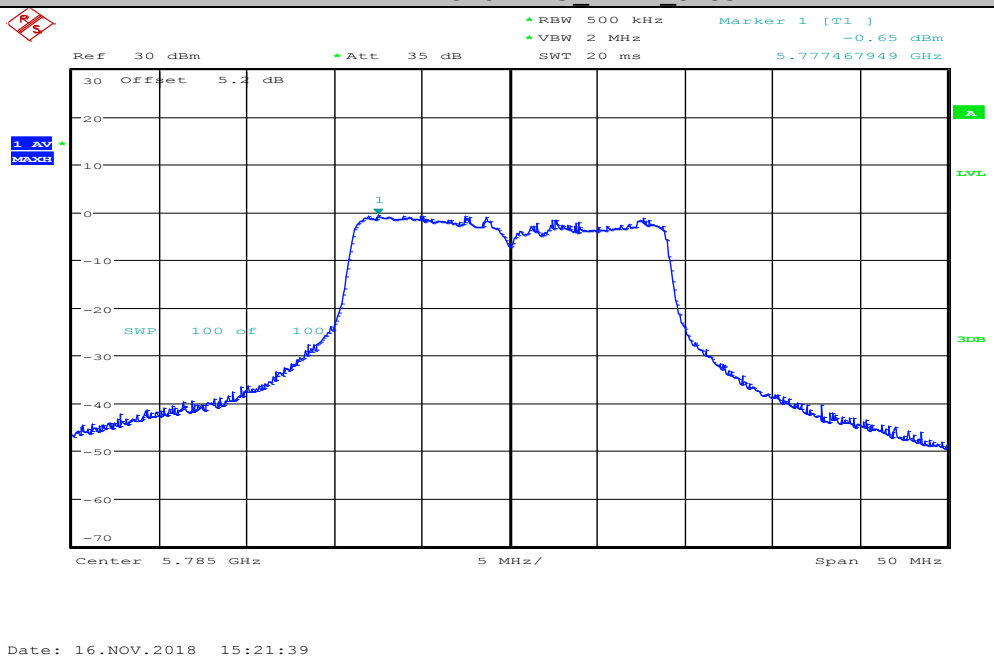

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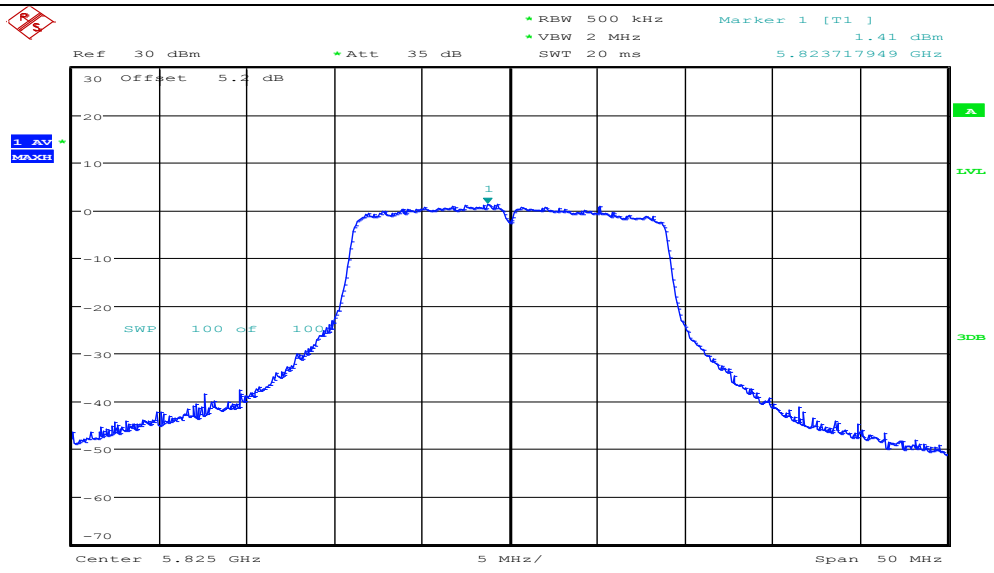

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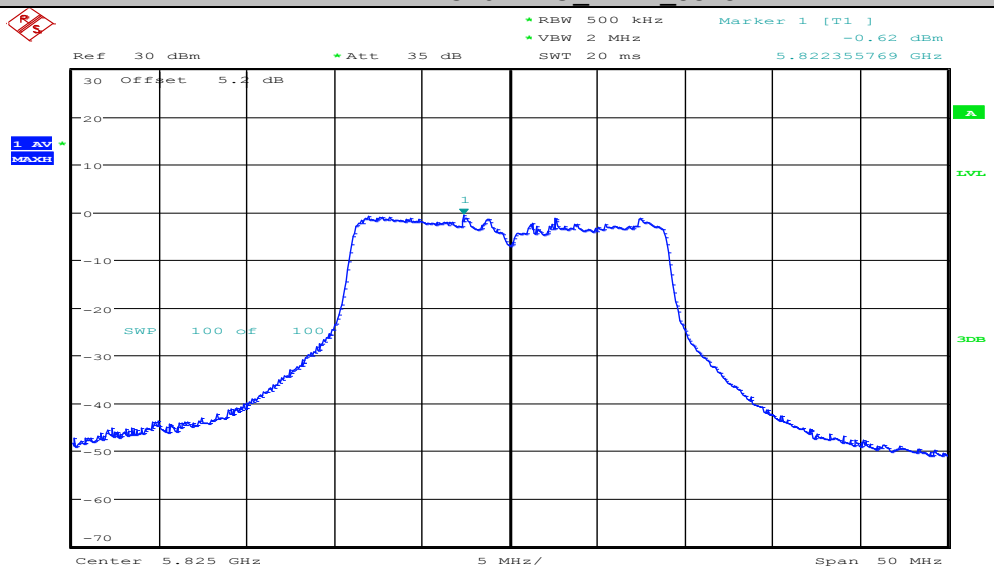

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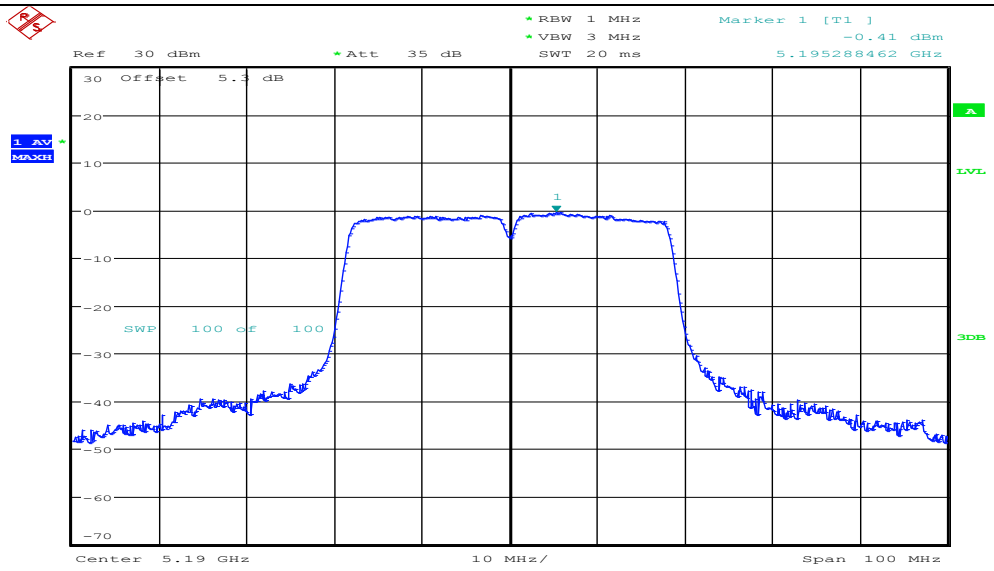

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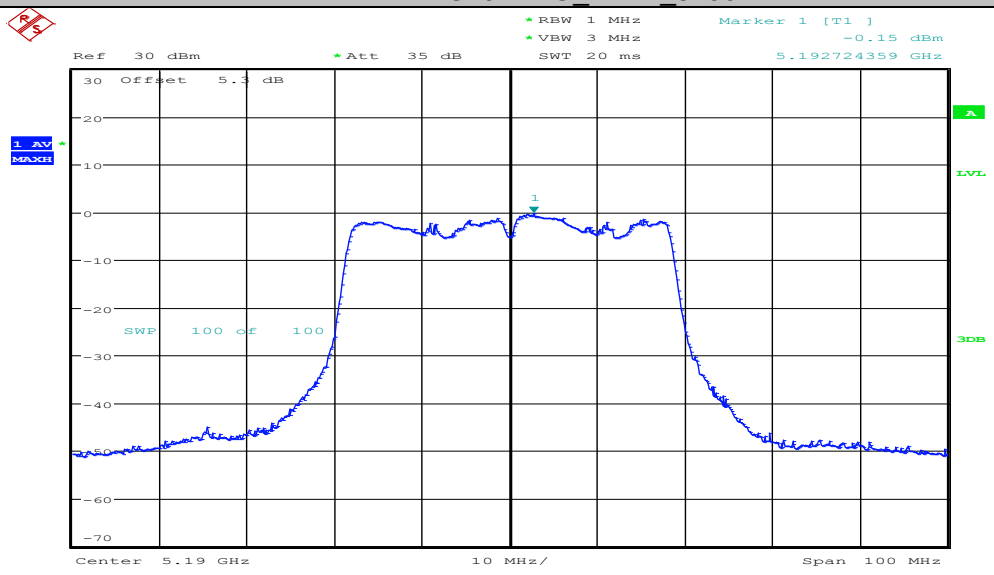

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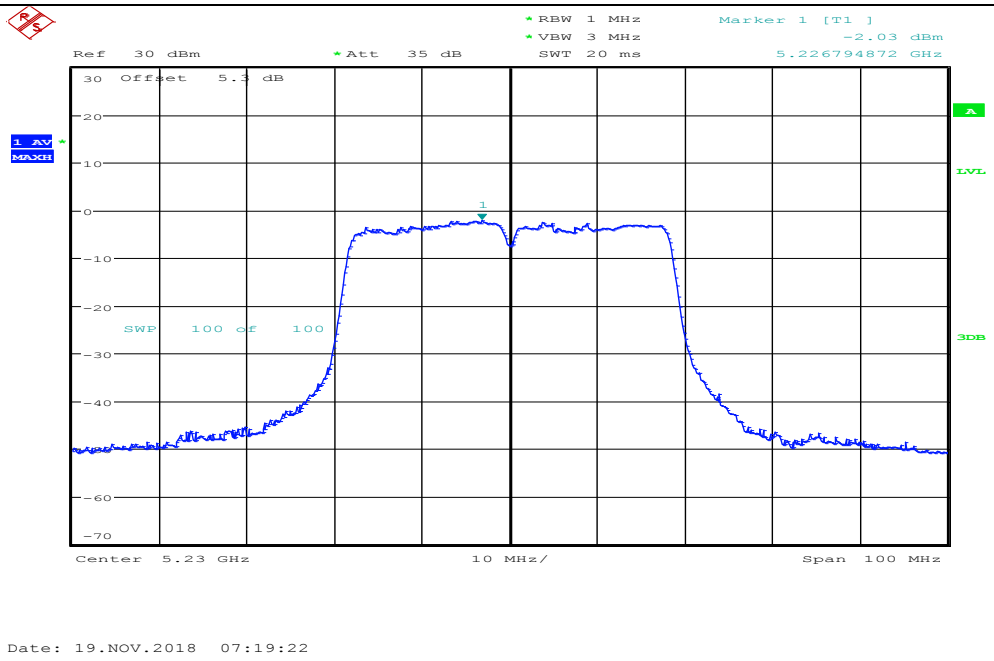

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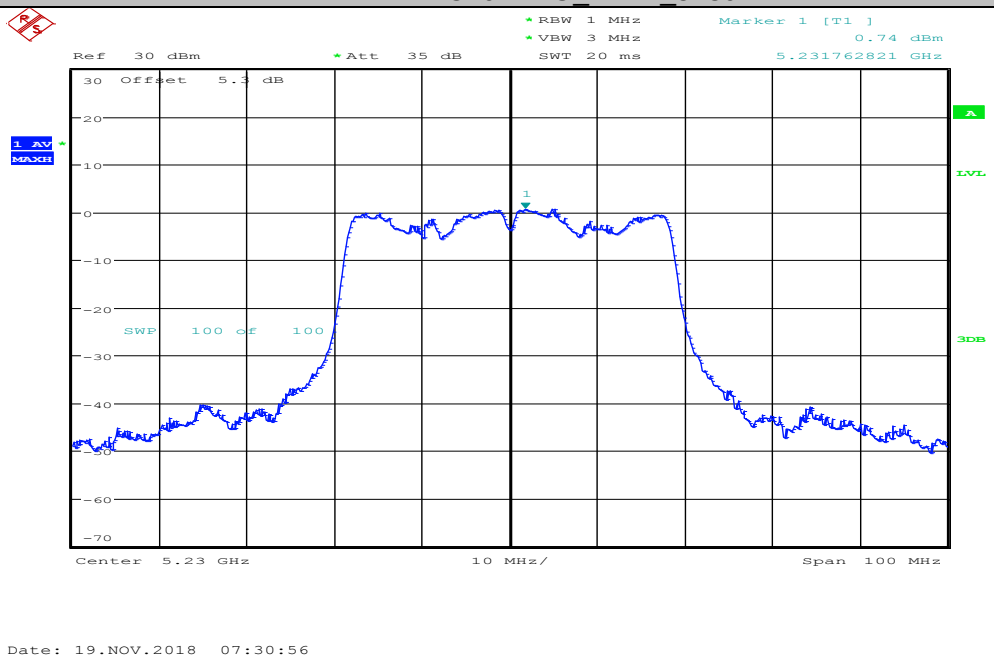

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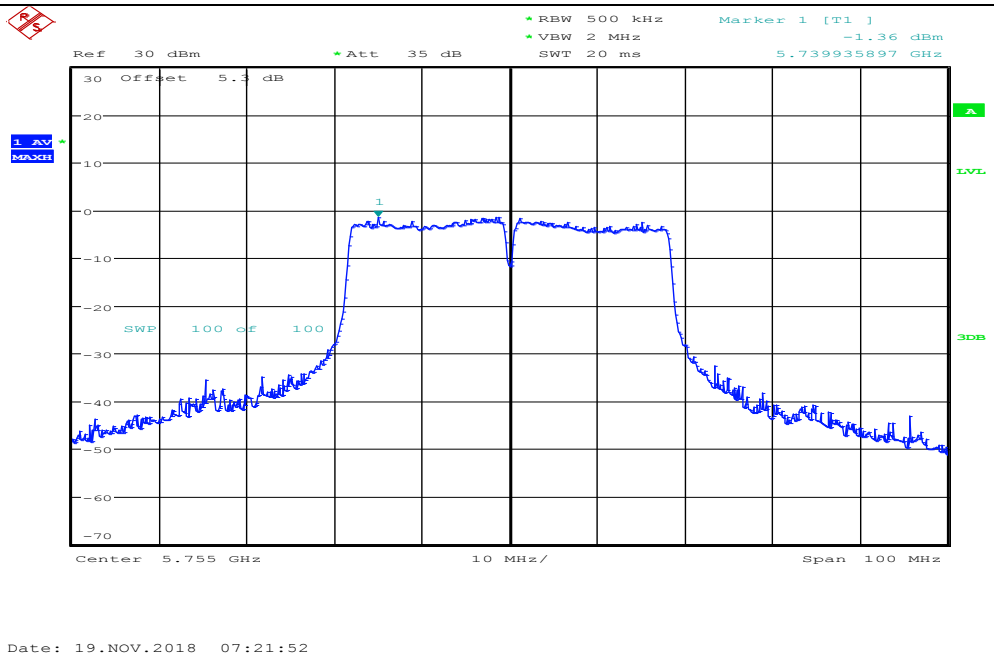

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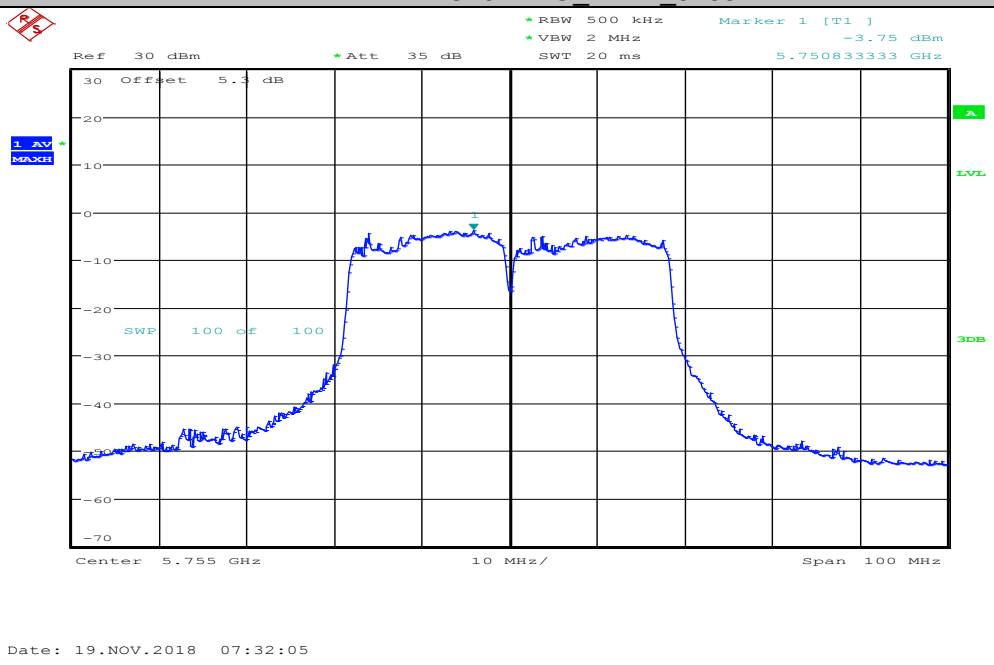

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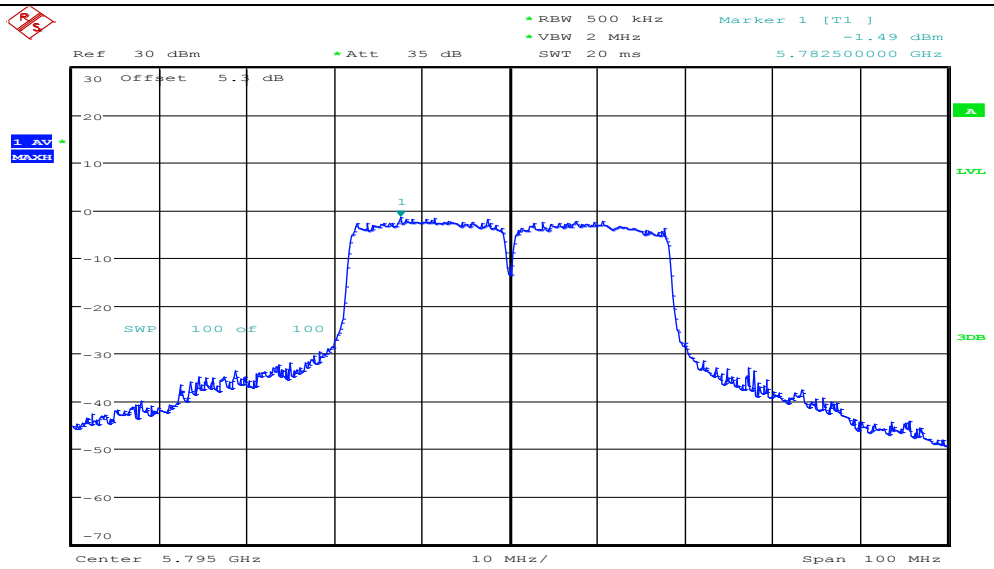

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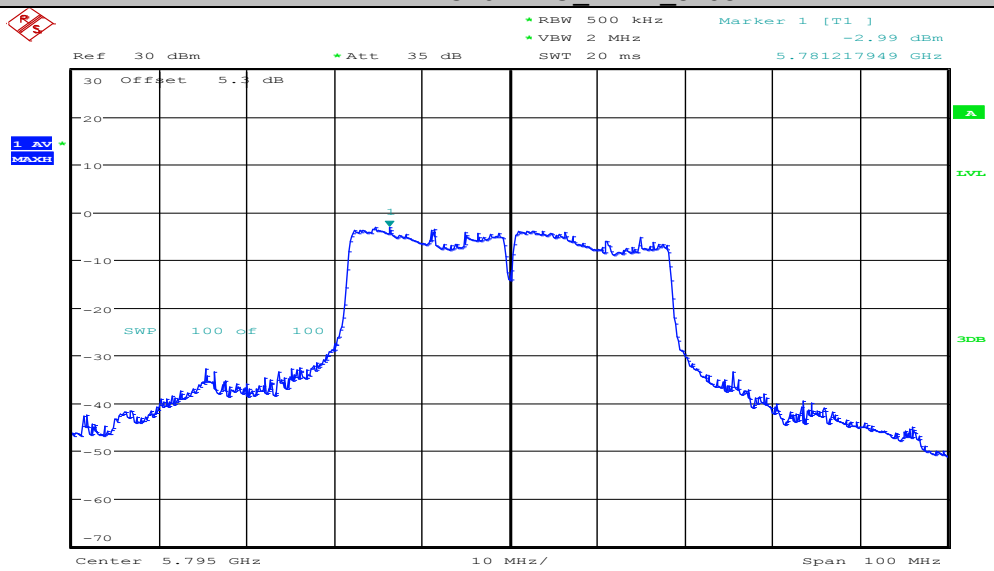

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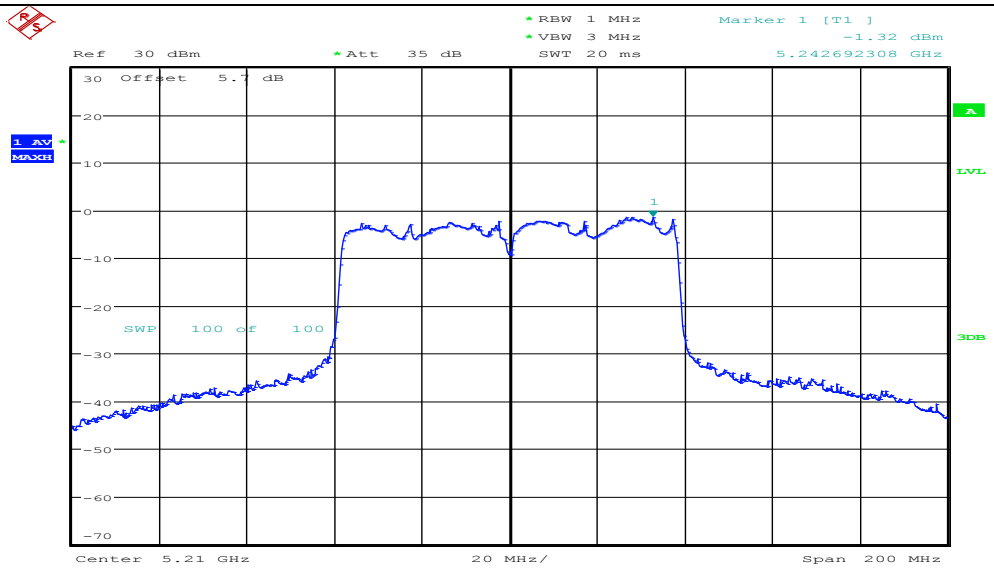

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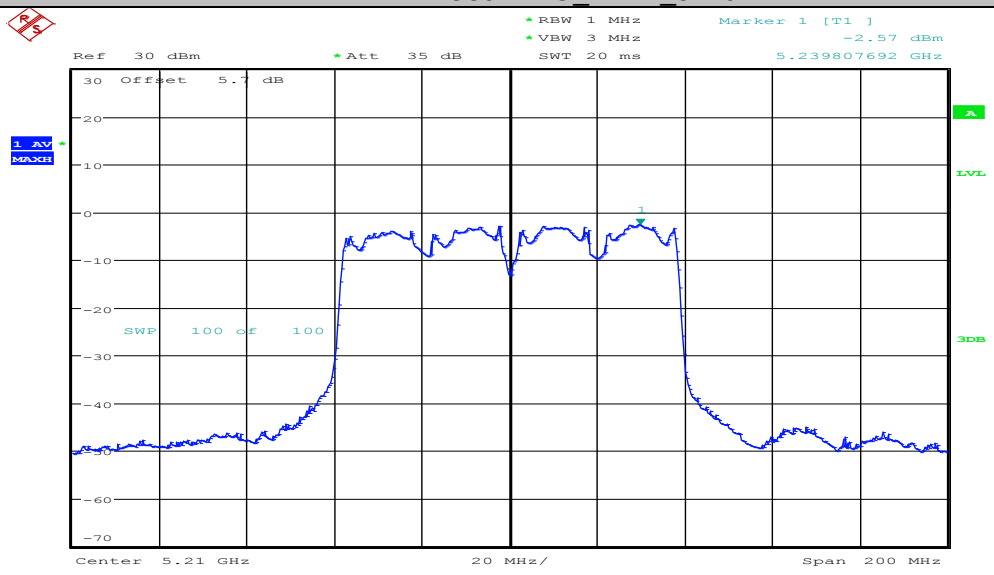

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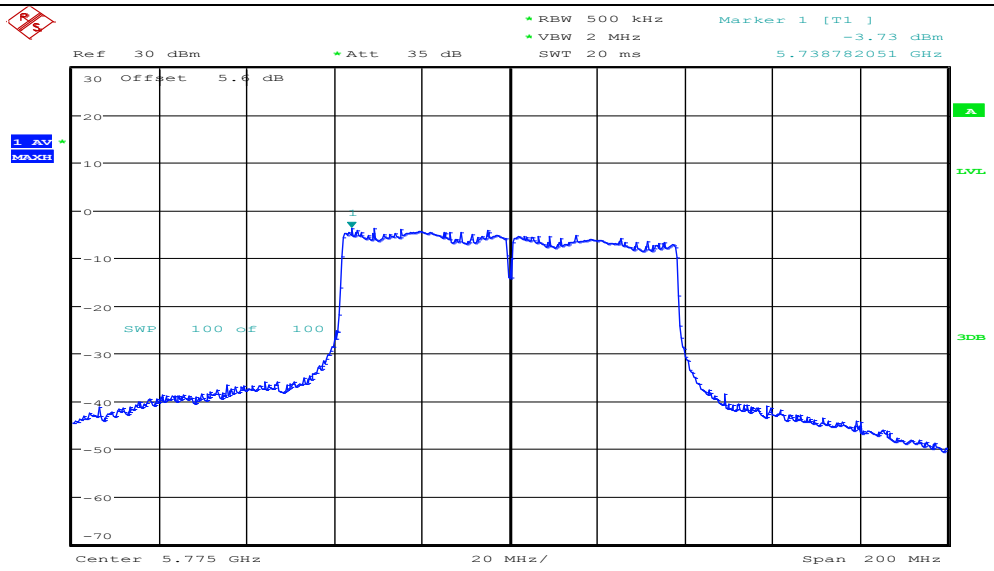

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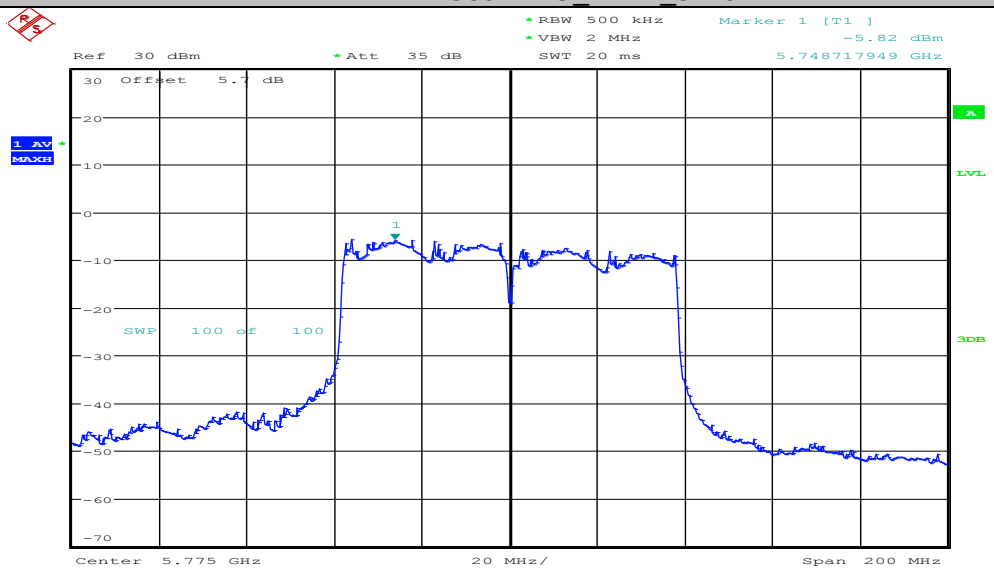

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7. Frequency Stability Measurement

7.1. Limit of Frequency Stability

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 user's manual.

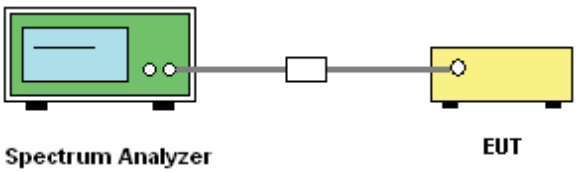
7.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

7.3. Test Procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

7.4. Test Setup



7.5. Test Result

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	ANT1	5180	NV	NT	-9400	-1.814672	20	PASS
11A	ANT1	5180	LV	NT	-9000	-1.737452	20	PASS
11A	ANT1	5180	HV	NT	-9000	-1.737452	20	PASS
11A	ANT2	5180	NV	NT	-11000	-2.123552	20	PASS
11A	ANT2	5180	LV	NT	-10800	-2.084942	20	PASS
11A	ANT2	5180	HV	NT	-10000	-1.930502	20	PASS
11A	ANT1	5190	NV	NT	-8400	-1.618497	20	PASS
11A	ANT1	5190	LV	NT	-8800	-1.695568	20	PASS
11A	ANT1	5190	HV	NT	-8000	-1.541426	20	PASS
11A	ANT2	5190	NV	NT	-4600	-0.886320	20	PASS
11A	ANT2	5190	LV	NT	-4600	-0.886320	20	PASS

11A	ANT2	5190	HV	NT	-4800	-0.924855	20	PASS
11A	ANT1	5200	NV	NT	-8200	-1.576923	20	PASS
11A	ANT1	5200	LV	NT	-8400	-1.615385	20	PASS
11A	ANT1	5200	HV	NT	-8400	-1.615385	20	PASS
11A	ANT2	5200	NV	NT	-5800	-1.115385	20	PASS
11A	ANT2	5200	LV	NT	-6000	-1.153846	20	PASS
11A	ANT2	5200	HV	NT	-5800	-1.115385	20	PASS
11A	ANT1	5210	NV	NT	-5600	-1.074856	20	PASS
11A	ANT1	5210	LV	NT	-6000	-1.151631	20	PASS
11A	ANT1	5210	HV	NT	-5600	-1.074856	20	PASS
11A	ANT2	5210	NV	NT	-10200	-1.957774	20	PASS
11A	ANT2	5210	LV	NT	-10400	-1.996161	20	PASS
11A	ANT2	5210	HV	NT	-10000	-1.919386	20	PASS
11A	ANT1	5230	NV	NT	-7400	-1.414914	20	PASS
11A	ANT1	5230	LV	NT	-7800	-1.491396	20	PASS
11A	ANT1	5230	HV	NT	-7400	-1.414914	20	PASS
11A	ANT2	5230	NV	NT	-3800	-0.726577	20	PASS
11A	ANT2	5230	LV	NT	-4000	-0.764818	20	PASS
11A	ANT2	5230	HV	NT	-4000	-0.764818	20	PASS
11A	ANT1	5240	NV	NT	-8200	-1.564885	20	PASS
11A	ANT1	5240	LV	NT	-8400	-1.603053	20	PASS
11A	ANT1	5240	HV	NT	-8000	-1.526718	20	PASS
11A	ANT2	5240	NV	NT	-4600	-0.877863	20	PASS
11A	ANT2	5240	LV	NT	-4800	-0.916031	20	PASS
11A	ANT2	5240	HV	NT	-4600	-0.877863	20	PASS
11A	ANT1	5745	NV	NT	-10200	-1.775457	20	PASS
11A	ANT1	5745	LV	NT	-10600	-1.845083	20	PASS
11A	ANT1	5745	HV	NT	-10200	-1.775457	20	PASS
11A	ANT2	5745	NV	NT	-5600	-0.974761	20	PASS
11A	ANT2	5745	LV	NT	-5600	-0.974761	20	PASS
11A	ANT2	5745	HV	NT	-5600	-0.974761	20	PASS
11A	ANT1	5755	NV	NT	-8600	-1.494353	20	PASS
11A	ANT1	5755	LV	NT	-9000	-1.563858	20	PASS
11A	ANT1	5755	HV	NT	-8200	-1.424848	20	PASS
11A	ANT2	5755	NV	NT	-7200	-1.251086	20	PASS
11A	ANT2	5755	LV	NT	-7000	-1.216334	20	PASS
11A	ANT2	5755	HV	NT	-6600	-1.146829	20	PASS
11A	ANT1	5775	NV	NT	-7000	-1.212121	20	PASS
11A	ANT1	5775	LV	NT	-7000	-1.212121	20	PASS

11A	ANT1	5775	HV	NT	-6200	-1.073593	20	PASS
11A	ANT2	5775	NV	NT	-12400	-2.147186	20	PASS
11A	ANT2	5775	LV	NT	-12400	-2.147186	20	PASS
11A	ANT2	5775	HV	NT	-12400	-2.147186	20	PASS
11A	ANT1	5785	NV	NT	-9000	-1.555748	20	PASS
11A	ANT1	5785	LV	NT	-9400	-1.624892	20	PASS
11A	ANT1	5785	HV	NT	-9200	-1.590320	20	PASS
11A	ANT2	5785	NV	NT	-4800	-0.829732	20	PASS
11A	ANT2	5785	LV	NT	-5000	-0.864304	20	PASS
11A	ANT2	5785	HV	NT	-5000	-0.864304	20	PASS
11A	ANT1	5795	NV	NT	-6400	-1.104400	20	PASS
11A	ANT1	5795	LV	NT	-6400	-1.104400	20	PASS
11A	ANT1	5795	HV	NT	-6200	-1.069888	20	PASS
11A	ANT2	5795	NV	NT	-8600	-1.484038	20	PASS
11A	ANT2	5795	LV	NT	-9000	-1.553063	20	PASS
11A	ANT2	5795	HV	NT	-9000	-1.553063	20	PASS
11A	ANT1	5825	NV	NT	-9400	-1.613734	20	PASS
11A	ANT1	5825	LV	NT	-9200	-1.579399	20	PASS
11A	ANT1	5825	HV	NT	-9000	-1.545064	20	PASS
11A	ANT2	5825	NV	NT	-4000	-0.686695	20	PASS
11A	ANT2	5825	LV	NT	-4200	-0.721030	20	PASS
11A	ANT2	5825	HV	NT	-4200	-0.721030	20	PASS

Temperature								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	ANT1	5180	NV	-30	-8400	-1.621622	20	PASS
11A	ANT1	5180	NV	-20	-8200	-1.583012	20	PASS
11A	ANT1	5180	NV	-10	-8000	-1.544402	20	PASS
11A	ANT1	5180	NV	0	-7400	-1.428571	20	PASS
11A	ANT1	5180	NV	10	-7800	-1.505792	20	PASS
11A	ANT1	5180	NV	20	-7400	-1.428571	20	PASS
11A	ANT1	5180	NV	30	-7800	-1.505792	20	PASS
11A	ANT1	5180	NV	40	-7000	-1.351351	20	PASS
11A	ANT1	5180	NV	50	-7200	-1.389961	20	PASS
11A	ANT2	5180	NV	-30	-9200	-1.776062	20	PASS
11A	ANT2	5180	NV	-20	-8600	-1.660232	20	PASS
11A	ANT2	5180	NV	-10	-7600	-1.467181	20	PASS
11A	ANT2	5180	NV	0	-7200	-1.389961	20	PASS

11A	ANT2	5180	NV	10	-6800	-1.312741	20	PASS
11A	ANT2	5180	NV	20	-6600	-1.274131	20	PASS
11A	ANT2	5180	NV	30	-6200	-1.196911	20	PASS
11A	ANT2	5180	NV	40	-6200	-1.196911	20	PASS
11A	ANT2	5180	NV	50	-5800	-1.119691	20	PASS
11A	ANT1	5190	NV	-30	-8000	-1.541426	20	PASS
11A	ANT1	5190	NV	-20	-7600	-1.464355	20	PASS
11A	ANT1	5190	NV	-10	-7600	-1.464355	20	PASS
11A	ANT1	5190	NV	0	-7200	-1.387283	20	PASS
11A	ANT1	5190	NV	10	-7000	-1.348748	20	PASS
11A	ANT1	5190	NV	20	-7200	-1.387283	20	PASS
11A	ANT1	5190	NV	30	-7000	-1.348748	20	PASS
11A	ANT1	5190	NV	40	-6600	-1.271676	20	PASS
11A	ANT1	5190	NV	50	-6600	-1.271676	20	PASS
11A	ANT2	5190	NV	-30	-4400	-0.847784	20	PASS
11A	ANT2	5190	NV	-20	-4200	-0.809249	20	PASS
11A	ANT2	5190	NV	-10	-4400	-0.847784	20	PASS
11A	ANT2	5190	NV	0	-4200	-0.809249	20	PASS
11A	ANT2	5190	NV	10	-4000	-0.770713	20	PASS
11A	ANT2	5190	NV	20	-3600	-0.693642	20	PASS
11A	ANT2	5190	NV	30	-3800	-0.732177	20	PASS
11A	ANT2	5190	NV	40	-3800	-0.732177	20	PASS
11A	ANT2	5190	NV	50	-3800	-0.732177	20	PASS
11A	ANT1	5200	NV	-30	-7800	-1.500000	20	PASS
11A	ANT1	5200	NV	-20	-7400	-1.423077	20	PASS
11A	ANT1	5200	NV	-10	-7200	-1.384615	20	PASS
11A	ANT1	5200	NV	0	-7000	-1.346154	20	PASS
11A	ANT1	5200	NV	10	-6800	-1.307692	20	PASS
11A	ANT1	5200	NV	20	-7000	-1.346154	20	PASS
11A	ANT1	5200	NV	30	-7000	-1.346154	20	PASS
11A	ANT1	5200	NV	40	-7200	-1.384615	20	PASS
11A	ANT1	5200	NV	50	-7200	-1.384615	20	PASS
11A	ANT2	5200	NV	-30	-5600	-1.076923	20	PASS
11A	ANT2	5200	NV	-20	-5400	-1.038462	20	PASS
11A	ANT2	5200	NV	-10	-5000	-0.961538	20	PASS
11A	ANT2	5200	NV	0	-5000	-0.961538	20	PASS
11A	ANT2	5200	NV	10	-5000	-0.961538	20	PASS
11A	ANT2	5200	NV	20	-5000	-0.961538	20	PASS
11A	ANT2	5200	NV	30	-4800	-0.923077	20	PASS

11A	ANT2	5200	NV	40	-4800	-0.923077	20	PASS
11A	ANT2	5200	NV	50	-4600	-0.884615	20	PASS
11A	ANT1	5210	NV	-30	-5000	-0.959693	20	PASS
11A	ANT1	5210	NV	-20	-4800	-0.921305	20	PASS
11A	ANT1	5210	NV	-10	-4600	-0.882917	20	PASS
11A	ANT1	5210	NV	0	-4400	-0.844530	20	PASS
11A	ANT1	5210	NV	10	-4400	-0.844530	20	PASS
11A	ANT1	5210	NV	20	-4200	-0.806142	20	PASS
11A	ANT1	5210	NV	30	-4000	-0.767754	20	PASS
11A	ANT1	5210	NV	40	-4000	-0.767754	20	PASS
11A	ANT1	5210	NV	50	-4000	-0.767754	20	PASS
11A	ANT2	5210	NV	-30	-9800	-1.880998	20	PASS
11A	ANT2	5210	NV	-20	-9000	-1.727447	20	PASS
11A	ANT2	5210	NV	-10	-8800	-1.689060	20	PASS
11A	ANT2	5210	NV	0	-8800	-1.689060	20	PASS
11A	ANT2	5210	NV	10	-8600	-1.650672	20	PASS
11A	ANT2	5210	NV	20	-8600	-1.650672	20	PASS
11A	ANT2	5210	NV	30	-8600	-1.650672	20	PASS
11A	ANT2	5210	NV	40	-8800	-1.689060	20	PASS
11A	ANT2	5210	NV	50	-8800	-1.689060	20	PASS
11A	ANT1	5230	NV	-30	-6800	-1.300191	20	PASS
11A	ANT1	5230	NV	-20	-6400	-1.223709	20	PASS
11A	ANT1	5230	NV	-10	-6200	-1.185468	20	PASS
11A	ANT1	5230	NV	0	-6000	-1.147228	20	PASS
11A	ANT1	5230	NV	10	-6200	-1.185468	20	PASS
11A	ANT1	5230	NV	20	-5800	-1.108987	20	PASS
11A	ANT1	5230	NV	30	-5800	-1.108987	20	PASS
11A	ANT1	5230	NV	40	-5400	-1.032505	20	PASS
11A	ANT1	5230	NV	50	-5600	-1.070746	20	PASS
11A	ANT2	5230	NV	-30	-3800	-0.726577	20	PASS
11A	ANT2	5230	NV	-20	-3800	-0.726577	20	PASS
11A	ANT2	5230	NV	-10	-3800	-0.726577	20	PASS
11A	ANT2	5230	NV	0	-4000	-0.764818	20	PASS
11A	ANT2	5230	NV	10	-4000	-0.764818	20	PASS
11A	ANT2	5230	NV	20	-4000	-0.764818	20	PASS
11A	ANT2	5230	NV	30	-3800	-0.726577	20	PASS
11A	ANT2	5230	NV	40	-3800	-0.726577	20	PASS
11A	ANT2	5230	NV	50	-4000	-0.764818	20	PASS
11A	ANT1	5240	NV	-30	-7600	-1.450382	20	PASS

11A	ANT1	5240	NV	-20	-7600	-1.450382	20	PASS
11A	ANT1	5240	NV	-10	-7200	-1.374046	20	PASS
11A	ANT1	5240	NV	0	-7400	-1.412214	20	PASS
11A	ANT1	5240	NV	10	-7000	-1.335878	20	PASS
11A	ANT1	5240	NV	20	-7000	-1.335878	20	PASS
11A	ANT1	5240	NV	30	-6800	-1.297710	20	PASS
11A	ANT1	5240	NV	40	-7000	-1.335878	20	PASS
11A	ANT1	5240	NV	50	-7000	-1.335878	20	PASS
11A	ANT2	5240	NV	-30	-4600	-0.877863	20	PASS
11A	ANT2	5240	NV	-20	-4600	-0.877863	20	PASS
11A	ANT2	5240	NV	-10	-4400	-0.839695	20	PASS
11A	ANT2	5240	NV	0	-4400	-0.839695	20	PASS
11A	ANT2	5240	NV	10	-4400	-0.839695	20	PASS
11A	ANT2	5240	NV	20	-4400	-0.839695	20	PASS
11A	ANT2	5240	NV	30	-4400	-0.839695	20	PASS
11A	ANT2	5240	NV	40	-4200	-0.801527	20	PASS
11A	ANT2	5240	NV	50	-4200	-0.801527	20	PASS
11A	ANT1	5745	NV	-30	-10200	-1.775457	20	PASS
11A	ANT1	5745	NV	-20	-9600	-1.671018	20	PASS
11A	ANT1	5745	NV	-10	-9200	-1.601393	20	PASS
11A	ANT1	5745	NV	0	-9600	-1.671018	20	PASS
11A	ANT1	5745	NV	10	-9000	-1.566580	20	PASS
11A	ANT1	5745	NV	20	-8800	-1.531767	20	PASS
11A	ANT1	5745	NV	30	-8800	-1.531767	20	PASS
11A	ANT1	5745	NV	40	-8200	-1.427328	20	PASS
11A	ANT1	5745	NV	50	-8000	-1.392515	20	PASS
11A	ANT2	5745	NV	-30	-5400	-0.939948	20	PASS
11A	ANT2	5745	NV	-20	-5200	-0.905135	20	PASS
11A	ANT2	5745	NV	-10	-5200	-0.905135	20	PASS
11A	ANT2	5745	NV	0	-4800	-0.835509	20	PASS
11A	ANT2	5745	NV	10	-5000	-0.870322	20	PASS
11A	ANT2	5745	NV	20	-4800	-0.835509	20	PASS
11A	ANT2	5745	NV	30	-4800	-0.835509	20	PASS
11A	ANT2	5745	NV	40	-4600	-0.800696	20	PASS
11A	ANT2	5745	NV	50	-4800	-0.835509	20	PASS
11A	ANT1	5755	NV	-30	-7800	-1.355343	20	PASS
11A	ANT1	5755	NV	-20	-7000	-1.216334	20	PASS
11A	ANT1	5755	NV	-10	-6600	-1.146829	20	PASS
11A	ANT1	5755	NV	0	-6600	-1.146829	20	PASS

11A	ANT1	5755	NV	10	-6400	-1.112076	20	PASS
11A	ANT1	5755	NV	20	-6400	-1.112076	20	PASS
11A	ANT1	5755	NV	30	-6400	-1.112076	20	PASS
11A	ANT1	5755	NV	40	-6000	-1.042572	20	PASS
11A	ANT1	5755	NV	50	-5800	-1.007819	20	PASS
11A	ANT2	5755	NV	-30	-6600	-1.146829	20	PASS
11A	ANT2	5755	NV	-20	-6600	-1.146829	20	PASS
11A	ANT2	5755	NV	-10	-7000	-1.216334	20	PASS
11A	ANT2	5755	NV	0	-6600	-1.146829	20	PASS
11A	ANT2	5755	NV	10	-7200	-1.251086	20	PASS
11A	ANT2	5755	NV	20	-6600	-1.146829	20	PASS
11A	ANT2	5755	NV	30	-6800	-1.181581	20	PASS
11A	ANT2	5755	NV	40	-7000	-1.216334	20	PASS
11A	ANT2	5755	NV	50	-7200	-1.251086	20	PASS
11A	ANT1	5775	NV	-30	-6000	-1.038961	20	PASS
11A	ANT1	5775	NV	-20	-5600	-0.969697	20	PASS
11A	ANT1	5775	NV	-10	-5400	-0.935065	20	PASS
11A	ANT1	5775	NV	0	-5000	-0.865801	20	PASS
11A	ANT1	5775	NV	10	-4800	-0.831169	20	PASS
11A	ANT1	5775	NV	20	-4600	-0.796537	20	PASS
11A	ANT1	5775	NV	30	-4800	-0.831169	20	PASS
11A	ANT1	5775	NV	40	-4600	-0.796537	20	PASS
11A	ANT1	5775	NV	50	-4600	-0.796537	20	PASS
11A	ANT2	5775	NV	-30	-12400	-2.147186	20	PASS
11A	ANT2	5775	NV	-20	-12000	-2.077922	20	PASS
11A	ANT2	5775	NV	-10	-11800	-2.04329	20	PASS
11A	ANT2	5775	NV	0	-11200	-1.939394	20	PASS
11A	ANT2	5775	NV	10	-11000	-1.904762	20	PASS
11A	ANT2	5775	NV	20	-10600	-1.835498	20	PASS
11A	ANT2	5775	NV	30	-10400	-1.800866	20	PASS
11A	ANT2	5775	NV	40	-10000	-1.731602	20	PASS
11A	ANT2	5775	NV	50	-9800	-1.69697	20	PASS
11A	ANT1	5785	NV	-30	-9000	-1.555748	20	PASS
11A	ANT1	5785	NV	-20	-8400	-1.452031	20	PASS
11A	ANT1	5785	NV	-10	-8200	-1.417459	20	PASS
11A	ANT1	5785	NV	0	-8400	-1.452031	20	PASS
11A	ANT1	5785	NV	10	-8600	-1.486603	20	PASS
11A	ANT1	5785	NV	20	-8600	-1.486603	20	PASS
11A	ANT1	5785	NV	30	-8200	-1.417459	20	PASS

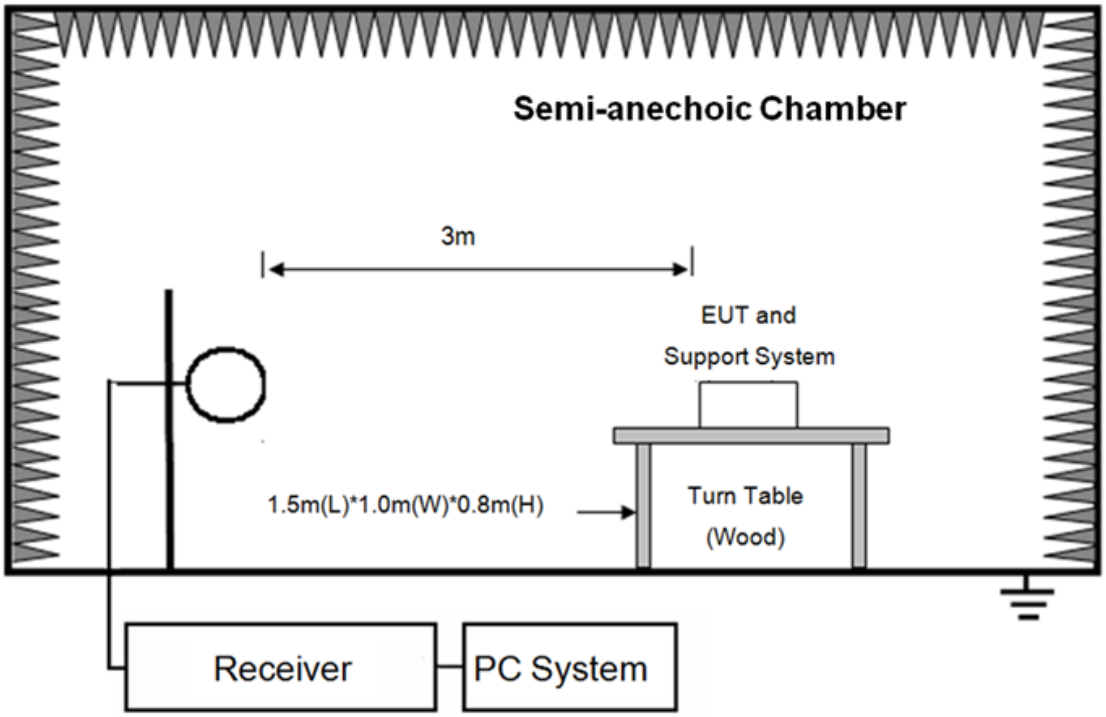
11A	ANT1	5785	NV	40	-8200	-1.417459	20	PASS
11A	ANT1	5785	NV	50	-8200	-1.417459	20	PASS
11A	ANT2	5785	NV	-30	-5000	-0.864304	20	PASS
11A	ANT2	5785	NV	-20	-4800	-0.829732	20	PASS
11A	ANT2	5785	NV	-10	-4600	-0.79516	20	PASS
11A	ANT2	5785	NV	0	-4600	-0.79516	20	PASS
11A	ANT2	5785	NV	10	-4400	-0.760588	20	PASS
11A	ANT2	5785	NV	20	-4200	-0.726016	20	PASS
11A	ANT2	5785	NV	30	-4400	-0.760588	20	PASS
11A	ANT2	5785	NV	40	-4200	-0.726016	20	PASS
11A	ANT2	5785	NV	50	-4200	-0.726016	20	PASS
11A	ANT1	5795	NV	-30	-6000	-1.035375	20	PASS
11A	ANT1	5795	NV	-20	-6200	-1.069888	20	PASS
11A	ANT1	5795	NV	-10	-6200	-1.069888	20	PASS
11A	ANT1	5795	NV	0	-5800	-1.000863	20	PASS
11A	ANT1	5795	NV	10	-5400	-0.931838	20	PASS
11A	ANT1	5795	NV	20	-5600	-0.96635	20	PASS
11A	ANT1	5795	NV	30	-5200	-0.897325	20	PASS
11A	ANT1	5795	NV	40	-5200	-0.897325	20	PASS
11A	ANT1	5795	NV	50	-5400	-0.931838	20	PASS
11A	ANT2	5795	NV	-30	-8800	-1.518550	20	PASS
11A	ANT2	5795	NV	-20	-8600	-1.484038	20	PASS
11A	ANT2	5795	NV	-10	-8600	-1.484038	20	PASS
11A	ANT2	5795	NV	0	-8600	-1.484038	20	PASS
11A	ANT2	5795	NV	10	-8600	-1.484038	20	PASS
11A	ANT2	5795	NV	20	-8200	-1.415013	20	PASS
11A	ANT2	5795	NV	30	-8200	-1.415013	20	PASS
11A	ANT2	5795	NV	40	-8000	-1.380500	20	PASS
11A	ANT2	5795	NV	50	-8000	-1.380500	20	PASS
11A	ANT1	5825	NV	-30	-8800	-1.510730	20	PASS
11A	ANT1	5825	NV	-20	-8200	-1.407725	20	PASS
11A	ANT1	5825	NV	-10	-8200	-1.407725	20	PASS
11A	ANT1	5825	NV	0	-8000	-1.373391	20	PASS
11A	ANT1	5825	NV	10	-7600	-1.304721	20	PASS
11A	ANT1	5825	NV	20	-7400	-1.270386	20	PASS
11A	ANT1	5825	NV	30	-7200	-1.236052	20	PASS
11A	ANT1	5825	NV	40	-7000	-1.201717	20	PASS
11A	ANT1	5825	NV	50	-6800	-1.167382	20	PASS
11A	ANT2	5825	NV	-30	-4200	-0.721030	20	PASS

11A	ANT2	5825	NV	-20	-4000	-0.686695	20	PASS
11A	ANT2	5825	NV	-10	-4200	-0.721030	20	PASS
11A	ANT2	5825	NV	0	-3800	-0.652361	20	PASS
11A	ANT2	5825	NV	10	-4000	-0.686695	20	PASS
11A	ANT2	5825	NV	20	-3800	-0.652361	20	PASS
11A	ANT2	5825	NV	30	-3800	-0.652361	20	PASS
11A	ANT2	5825	NV	40	-3800	-0.652361	20	PASS
11A	ANT2	5825	NV	50	-3800	-0.652361	20	PASS

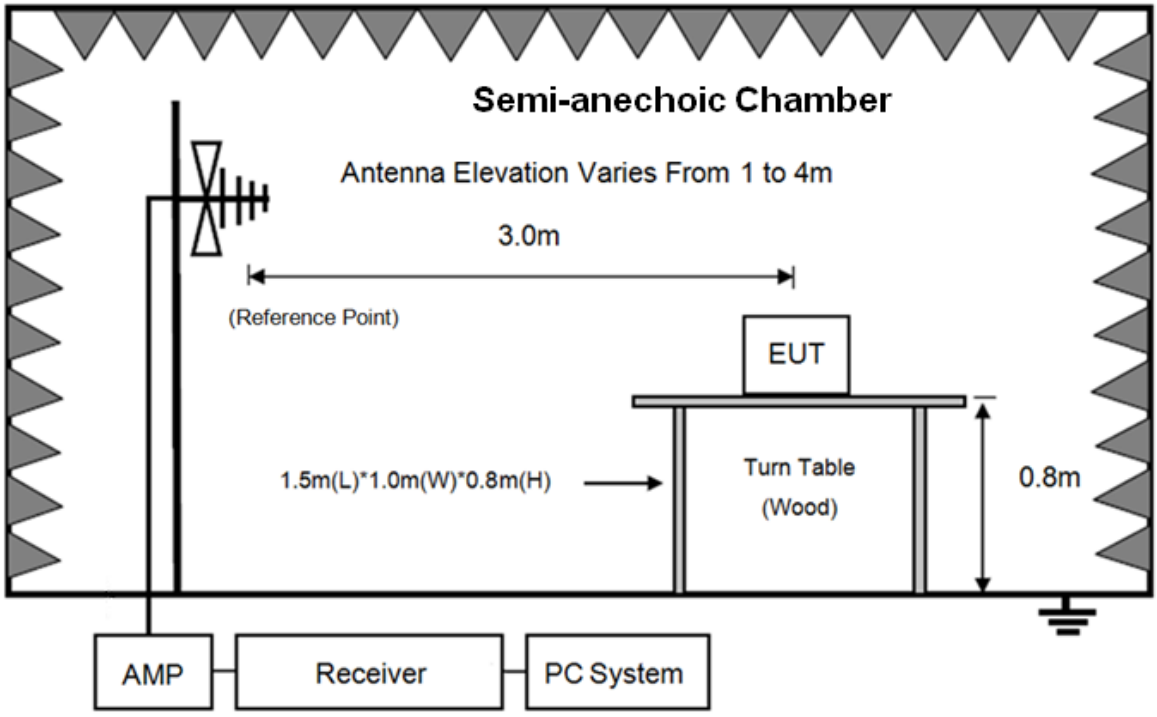
8. Emissions in restricted frequency bands

8.1. Block diagram of test setup

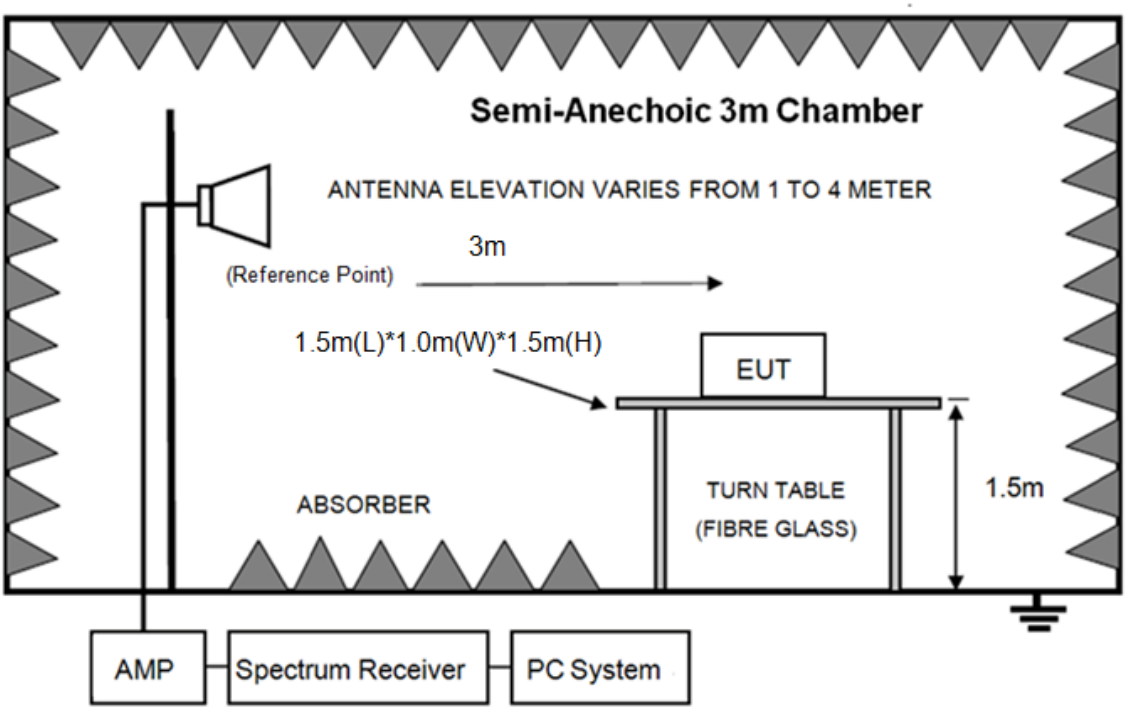
In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

8.3.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.G
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

8.3.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$$

8.3.3 Limit for this EUT
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

(1) EUT height should be 0.8m for below 1GHz at a semi‐anechoic chamber while EUT height should be 1.5m for above 1GHz at full chamber or semi‐anechoic chamber ground with absorbers

(2) Setup EUT and assistant system according clause 2.3 and 8.2

(3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3m
18GHz-40GHz	Horn Antenna(18GHz-40GHz)	1m

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical

axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 40GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9kHz to 40GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 40GHz, so below final test was performed with frequency range from 30MHz to 18GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.

(6) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(7) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz ,Peak detector for Peak measure ， RMS detector for AV value

8.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 40GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

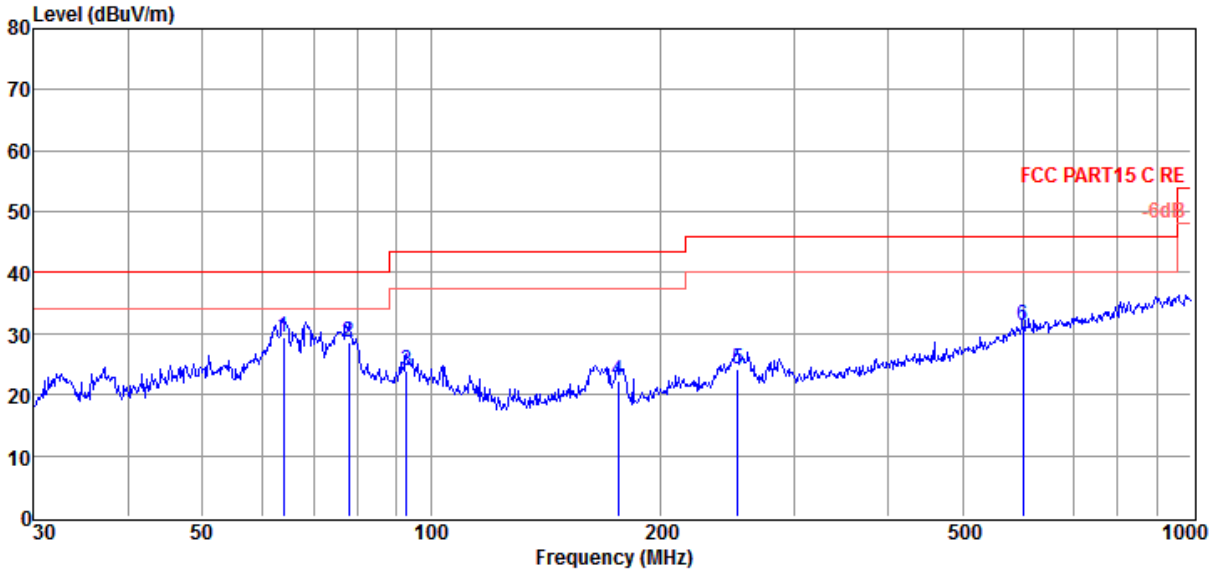
Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in 11a mode.

Note3: For emissions above 1GHz, 11a ANT1, 11n20, n40, 11ac20, 11ac40,11ac80 mode ANT 1 ANT 2 mode and MIMO mode all have been tested, only 11a ANT 1 mode is the worst case and reported

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\RF 30M-1G.EM6		
Test Date	:	2018-10-22	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C, Humi:55.5%, Press:100.1kPa	**Antenna/Distance**	:	2017 VULB 9163 1#/3m/VERTICAL
Memo	:				

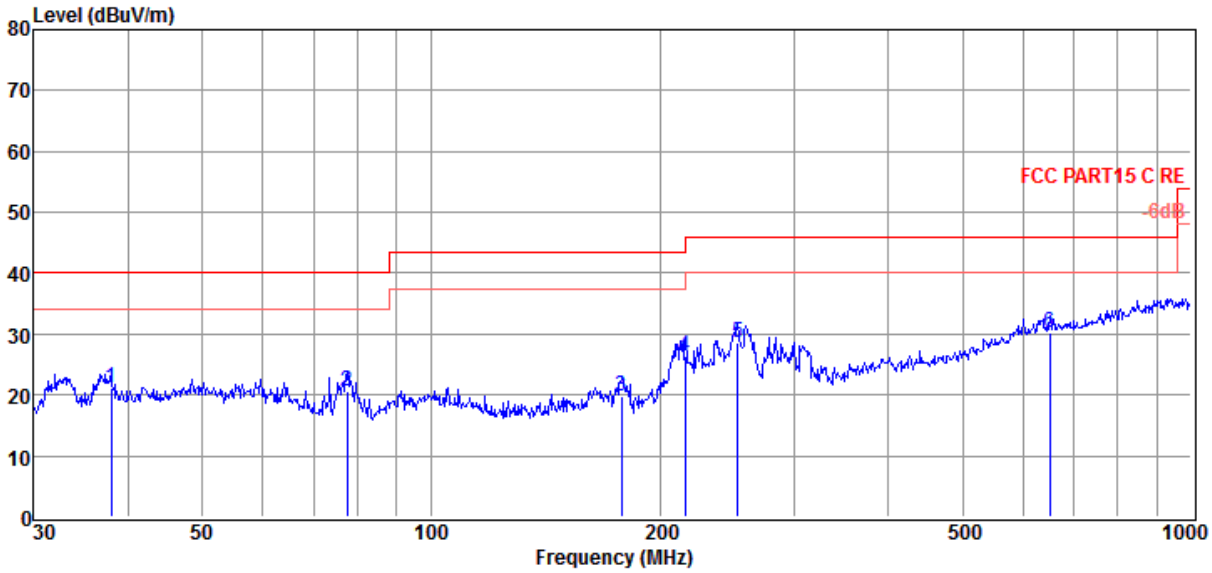


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	63.98	14.74	10.48	4.13	29.35	40.00	-10.65	QP	VERTICAL
2	77.87	16.32	7.92	4.24	28.48	40.00	-11.52	QP	VERTICAL
3	92.79	9.42	10.01	4.36	23.79	43.50	-19.71	QP	VERTICAL
4	176.27	7.84	9.50	4.91	22.25	43.50	-21.25	QP	VERTICAL
5	252.95	6.28	12.54	5.31	24.13	46.00	-21.87	QP	VERTICAL
6	601.43	5.37	19.40	6.68	31.45	46.00	-14.55	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\RF 30M-1G.EM6		
Test Date	:	2018-10-22	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C, Humi:55.5%, Press:100.1kPa	**Antenna/Distance**	:	2017 VULB 9163 1#/3m/HORIZONTAL
Memo	:				



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	37.95	5.23	12.20	3.85	21.28	40.00	-18.72	QP	HORIZONTAL
2	77.59	8.31	7.97	4.23	20.51	40.00	-19.49	QP	HORIZONTAL
3	178.13	5.35	9.60	4.92	19.87	43.50	-23.63	QP	HORIZONTAL
4	216.02	9.35	11.84	5.12	26.31	46.00	-19.69	QP	HORIZONTAL
5	252.95	10.73	12.54	5.31	28.58	46.00	-17.42	QP	HORIZONTAL
6	651.94	3.69	19.56	6.85	30.10	46.00	-15.90	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor(dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector type	Polarization
11a CH36									
7375.00	48.00	36.95	43.61	8.67	50.01	74.00	-23.99	Peak	HORIZONTAL
8395.00	47.78	37.28	43.92	9.68	50.82	74.00	-23.18	Peak	HORIZONTAL
10044.00	48.97	38.23	44.39	10.90	53.71	74.00	-20.29	Peak	HORIZONTAL
10707.00	49.47	38.62	44.29	11.01	54.81	74.00	-19.19	Peak	HORIZONTAL
13308.00	46.98	39.61	44.43	11.66	53.82	74.00	-20.18	Peak	HORIZONTAL
14107.00	46.39	40.32	44.56	12.41	54.56	74.00	-19.44	Peak	HORIZONTAL
6491.00	48.78	35.70	43.35	8.27	49.40	74.00	-24.60	Peak	VERTICAL
8174.00	47.26	37.23	43.85	9.43	50.07	74.00	-23.93	Peak	VERTICAL
9381.00	47.71	37.65	44.21	10.57	51.72	74.00	-22.28	Peak	VERTICAL
10367.00	52.59	38.42	44.34	10.95	57.62	74.00	-16.38	Peak	VERTICAL
12798.00	47.01	39.10	44.30	11.27	53.08	74.00	-20.92	Peak	VERTICAL
14294.00	45.94	40.88	44.50	12.51	54.83	74.00	-19.17	Peak	VERTICAL
11a CH40									
7341.00	47.51	36.94	43.60	8.64	49.49	74.00	-24.51	Peak	HORIZONTAL
8429.00	48.01	37.29	43.93	9.72	51.09	74.00	-22.91	Peak	HORIZONTAL
9364.00	48.28	37.65	44.21	10.56	52.28	74.00	-21.72	Peak	HORIZONTAL
10401.00	49.75	38.44	44.34	10.96	54.81	74.00	-19.19	Peak	HORIZONTAL
11047.00	49.27	38.78	44.24	11.06	54.87	74.00	-19.13	Peak	HORIZONTAL
12645.00	47.28	38.94	44.26	11.22	53.18	74.00	-20.82	Peak	HORIZONTAL
7392.00	47.73	36.96	43.62	8.68	49.75	74.00	-24.25	Peak	VERTICAL
8922.00	48.32	37.47	44.08	10.28	51.99	74.00	-22.01	Peak	VERTICAL
9432.00	48.50	37.67	44.23	10.59	52.53	74.00	-21.47	Peak	VERTICAL
10401.00	51.75	38.44	44.34	10.96	56.81	74.00	-17.19	Peak	VERTICAL
10928.00	49.83	38.76	44.26	11.05	55.38	74.00	-18.62	Peak	VERTICAL
13444.00	47.82	39.74	44.46	11.80	54.90	74.00	-19.10	Peak	VERTICAL
11a CH48									
8429.00	47.80	37.29	43.93	9.72	50.88	74.00	-23.12	Peak	HORIZONTAL
9942.00	48.41	38.14	44.38	10.86	53.03	74.00	-20.97	Peak	HORIZONTAL
10673.00	49.84	38.60	44.30	11.00	55.14	74.00	-18.86	Peak	HORIZONTA

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12322.00	47.68	38.84	44.18	11.09	53.43	74.00	-20.57	Peak	HORIZONTAL
13614.00	46.51	39.85	44.50	11.97	53.83	74.00	-20.17	Peak	HORIZONTAL
14549.00	46.08	41.51	44.41	12.64	55.82	74.00	-18.18	Peak	HORIZONTAL
7409.00	47.15	36.96	43.62	8.70	49.19	74.00	-24.81	Peak	VERTICAL
8429.00	47.13	37.29	43.93	9.72	50.21	74.00	-23.79	Peak	VERTICAL
9381.00	47.76	37.65	44.21	10.57	51.77	74.00	-22.23	Peak	VERTICAL
10486.00	52.27	38.49	44.33	10.97	57.40	74.00	-16.60	Peak	VERTICAL
12254.00	46.95	38.85	44.16	11.07	52.71	74.00	-21.29	Peak	VERTICAL
13631.00	46.32	39.85	44.51	11.99	53.65	74.00	-20.35	Peak	VERTICAL
11a CH149									
7273.00	48.22	36.91	43.58	8.58	50.13	74.00	-23.87	Peak	HORIZONTAL
8412.00	47.90	37.28	43.92	9.70	50.96	74.00	-23.04	Peak	HORIZONTAL
9483.00	48.38	37.69	44.24	10.62	52.45	74.00	-21.55	Peak	HORIZONTAL
10741.00	49.08	38.64	44.29	11.02	54.45	74.00	-19.55	Peak	HORIZONTAL
12730.00	47.32	39.03	44.28	11.25	53.32	74.00	-20.68	Peak	HORIZONTAL
14090.00	46.88	40.27	44.57	12.41	54.99	74.00	-19.01	Peak	HORIZONTAL
7443.00	48.04	36.98	43.63	8.73	50.12	74.00	-23.88	Peak	VERTICAL
8854.00	48.59	37.44	44.06	10.20	52.17	74.00	-21.83	Peak	VERTICAL
9993.00	48.83	38.19	44.40	10.89	53.51	74.00	-20.49	Peak	VERTICAL
10724.00	49.63	38.63	44.29	11.01	54.98	74.00	-19.02	Peak	VERTICAL
12679.00	47.39	38.98	44.27	11.23	53.33	74.00	-20.67	Peak	VERTICAL
14158.00	46.85	40.47	44.54	12.44	55.22	74.00	-18.78	Peak	VERTICAL
11a CH157									
8429.00	48.44	37.29	43.93	9.72	51.52	74.00	-22.48	Peak	HORIZONTAL
9483.00	48.27	37.69	44.24	10.62	52.34	74.00	-21.66	Peak	HORIZONTAL
10656.00	49.76	38.59	44.30	11.00	55.05	74.00	-18.95	Peak	HORIZONTAL
12713.00	47.17	39.01	44.28	11.24	53.14	74.00	-20.86	Peak	HORIZONTAL
13410.00	47.14	39.71	44.45	11.76	54.16	74.00	-19.84	Peak	HORIZONTAL
14617.00	44.88	41.52	44.38	12.67	54.69	74.00	-19.31	Peak	HORIZONTAL
6882.00	48.10	36.54	43.46	8.32	49.50	74.00	-24.50	Peak	VERTICAL
8412.00	47.40	37.28	43.92	9.70	50.46	74.00	-23.54	Peak	VERTICAL
9381.00	48.28	37.65	44.21	10.57	52.29	74.00	-21.71	Peak	VERTICAL
10690.00	49.63	38.61	44.30	11.01	54.95	74.00	-19.05	Peak	VERTICAL
12628.00	47.44	38.93	44.26	11.21	53.32	74.00	-20.68	Peak	VERTICAL
13495.00	48.70	39.79	44.47	11.85	55.87	74.00	-18.13	Peak	VERTICAL
11a CH165									
7392.00	47.76	36.96	43.62	8.68	49.78	74.00	-24.22	Peak	HORIZONTAL
8463.00	48.23	37.29	43.94	9.76	51.34	74.00	-22.66	Peak	HORIZONTAL

9874.00	48.20	38.07	44.36	10.82	52.73	74.00	-21.27	Peak	HORIZONTAL
10673.00	50.52	38.60	44.30	11.00	55.82	74.00	-18.18	Peak	HORIZONTAL
13444.00	46.52	39.74	44.46	11.80	53.60	74.00	-20.40	Peak	HORIZONTAL
14668.00	45.66	41.53	44.37	12.70	55.52	74.00	-18.48	Peak	HORIZONTAL
7392.00	47.73	36.96	43.62	8.68	49.75	74.00	-24.25	Peak	VERTICAL
8497.00	47.75	37.30	43.95	9.80	50.90	74.00	-23.10	Peak	VERTICAL
9364.00	48.34	37.65	44.21	10.56	52.34	74.00	-21.66	Peak	VERTICAL
10758.00	50.75	38.65	44.29	11.02	56.13	74.00	-17.87	Peak	VERTICAL
13614.00	47.20	39.85	44.50	11.97	54.52	74.00	-19.48	Peak	VERTICAL
14226.00	46.40	40.68	44.52	12.48	55.04	74.00	-18.96	Peak	VERTICAL
Conclusion: Pass									
Note: -27 dBm/MHz Limit=95.2+EIRP[dBm]=95.2-27=68.2 dBμV/m For transmitters operating in the 5150MHz-5250MHz, 5725MHz-5850MHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.									

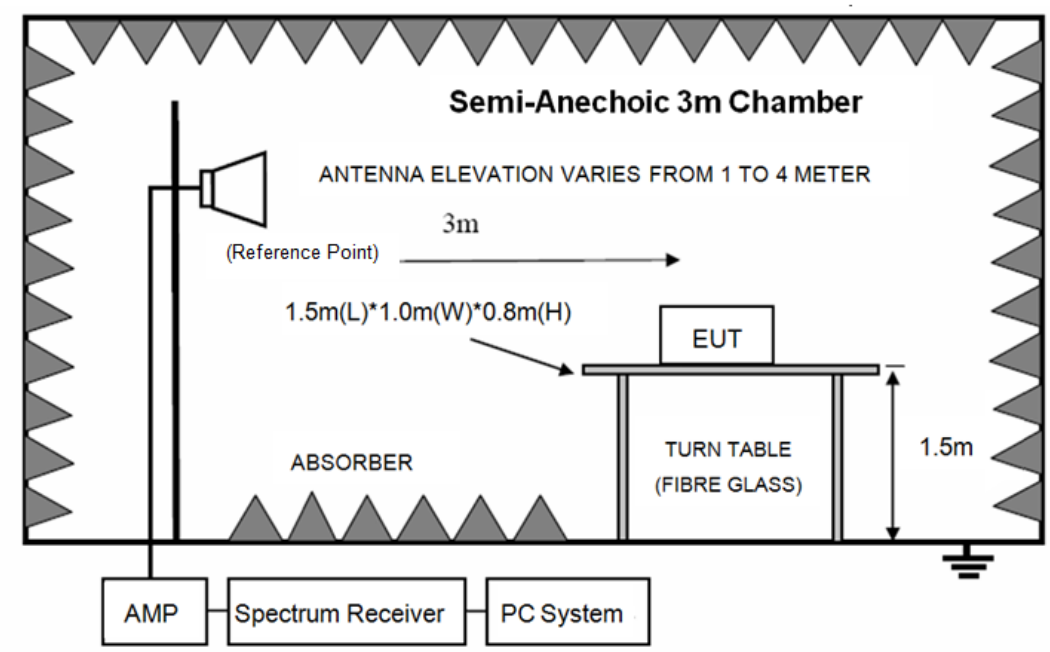
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. Band Edge Compliance

9.1. Block diagram of test setup



9.2. Limit

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 EIRP of -27dBm/MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz; for frequencies 10MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz

-17 dBm/MHz Limit=95.2+EIRP[dBm]=95.2-17=78.2 dBμV/m

-27 dBm/MHz Limit=95.2+EIRP[dBm]=95.2-27=68.2 dBμV/m

9.3. Test Procedure

Same with clause 8.3 except change investigated frequency range from 5.15-5.25 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worse case is shown in report.

9.4. Test result

PASS. (See below detailed test result)

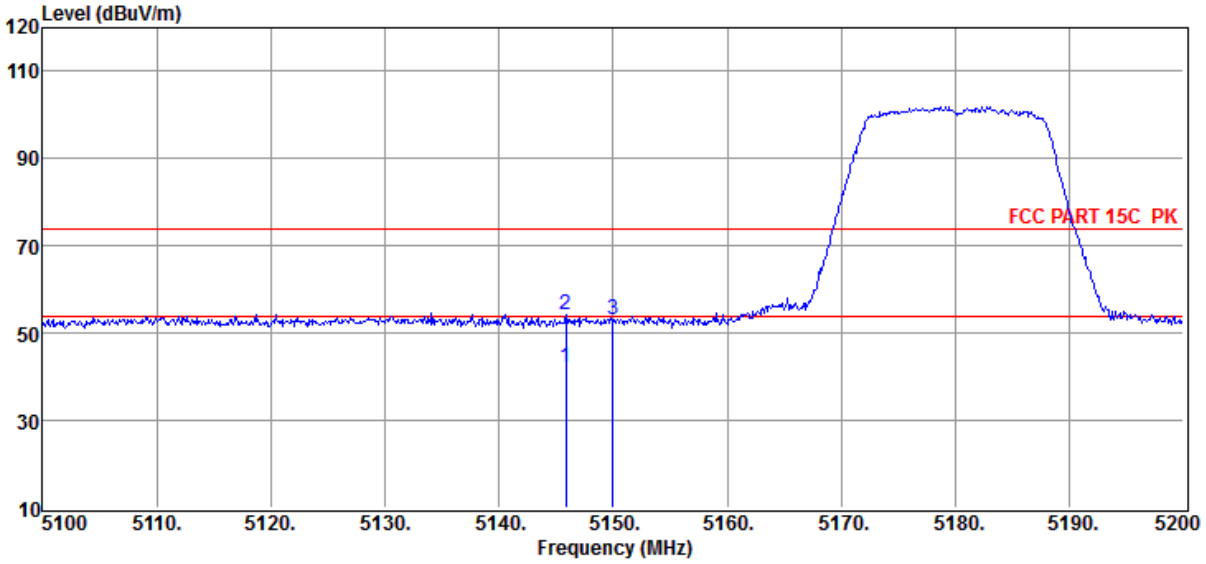
Note1: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Note2: 11a ANT 1, 11n, 11ac mode ANT 1 ANT 2 mode and MIMO mode all have been tested, only ANT 1 mode is the worst case and reported.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11A 5180MHz		

Data: 57



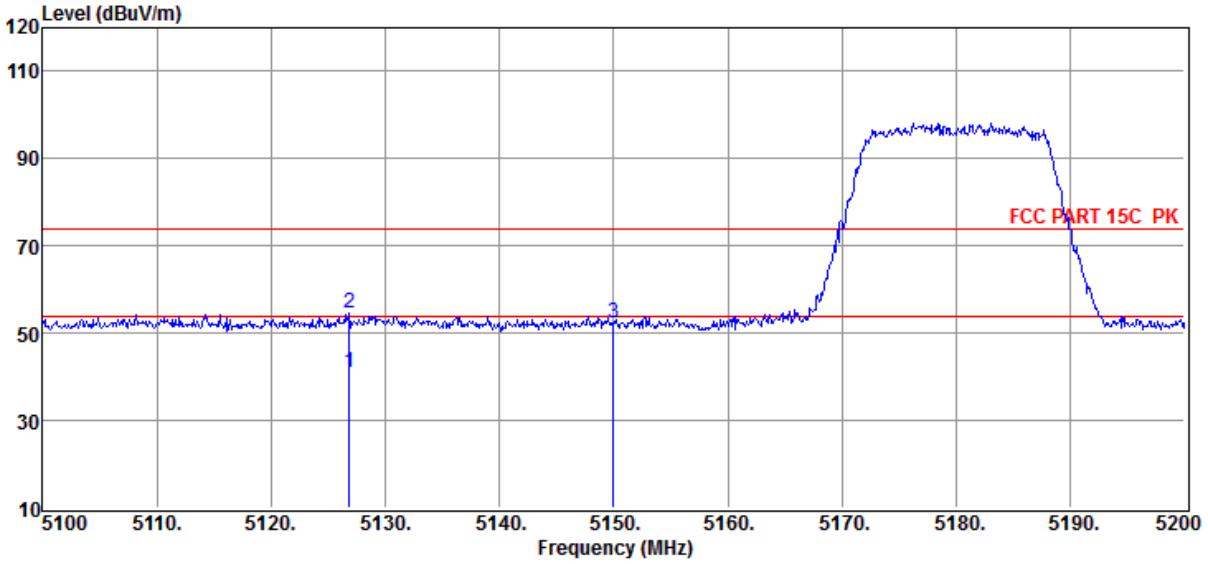
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5145.90	43.00	35.15	43.71	7.67	42.11	54.00	-11.89	Average	VERTICAL
2	5145.90	55.26	35.15	43.71	7.67	54.37	74.00	-19.63	Peak	VERTICAL
3	5150.00	54.12	35.15	43.71	7.67	53.23	74.00	-20.77	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11A 5180MHz		

Data: 58



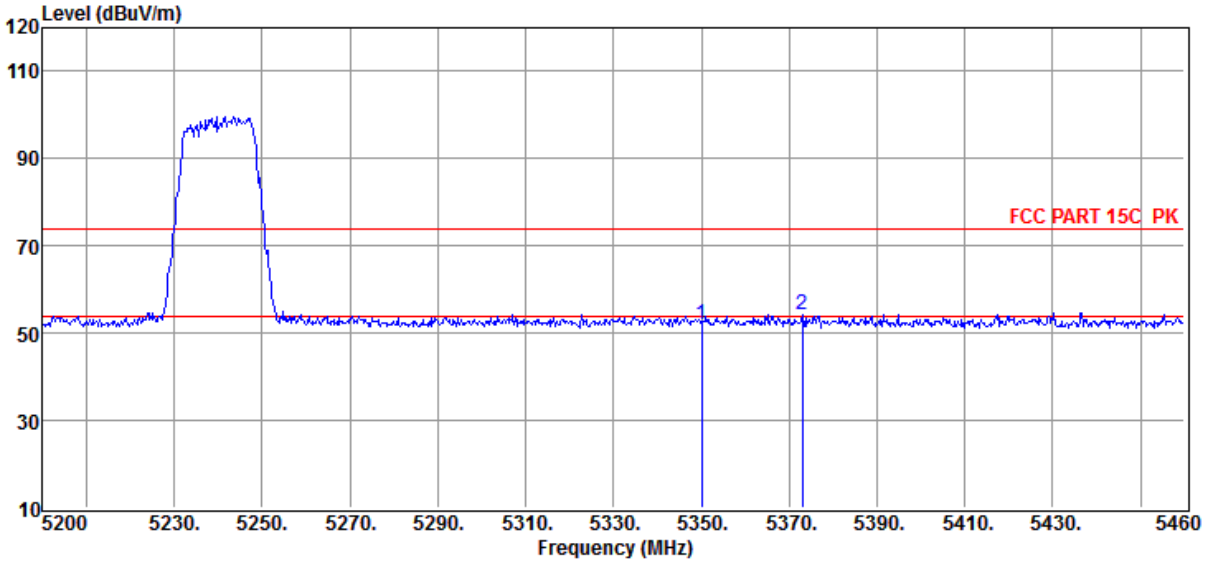
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5126.90	41.99	35.13	43.72	7.66	41.06	54.00	-12.94	Average	HORIZONTAL
2	5126.90	55.41	35.13	43.72	7.66	54.48	74.00	-19.52	Peak	HORIZONTAL
3	5150.00	53.18	35.15	43.71	7.67	52.29	74.00	-21.71	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11A 5240MHz		

Data: 59



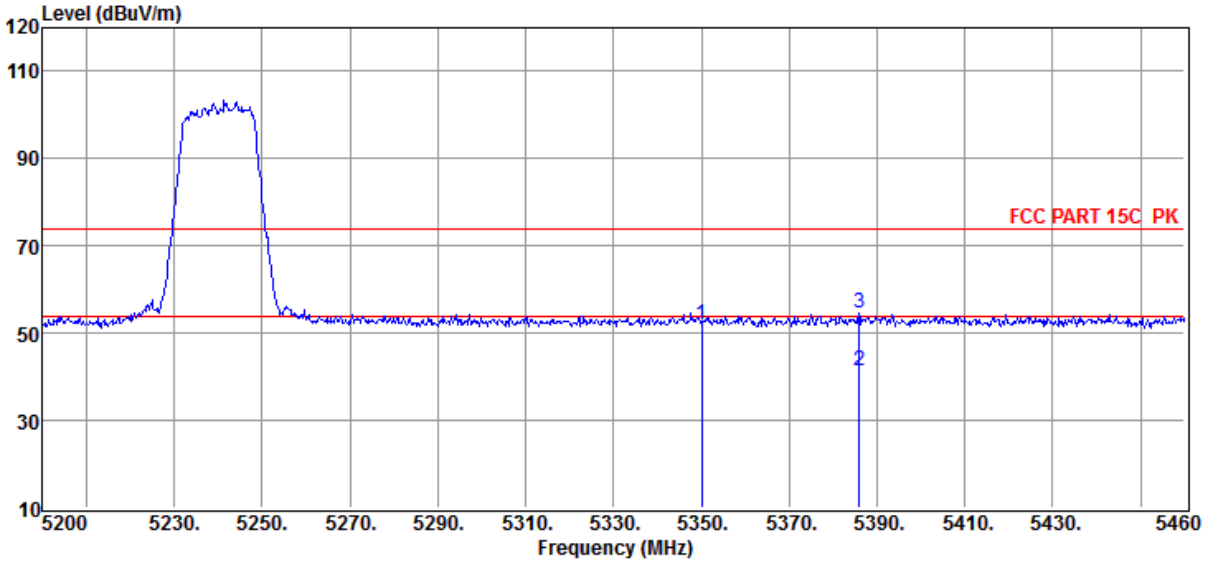
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	52.45	35.35	43.59	7.80	52.01	74.00	-21.99	Peak	HORIZONTAL
2	5372.90	54.65	35.37	43.58	7.81	54.25	74.00	-19.75	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11A 5240MHz		

Data: 60

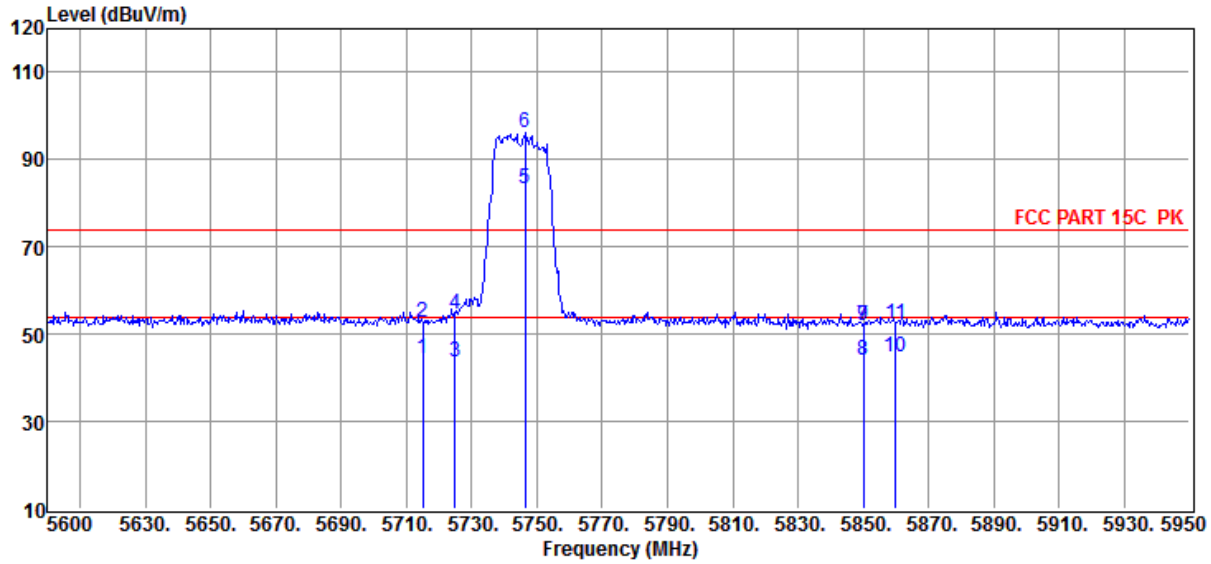


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	52.42	35.35	43.59	7.80	51.98	74.00	-22.02	Peak	VERTICAL
2	5385.90	41.90	35.39	43.57	7.82	41.54	54.00	-12.46	Average	VERTICAL
3	5385.90	55.04	35.39	43.57	7.82	54.68	74.00	-19.32	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/VERTICAL
Memo	:	11A 5745MHz			

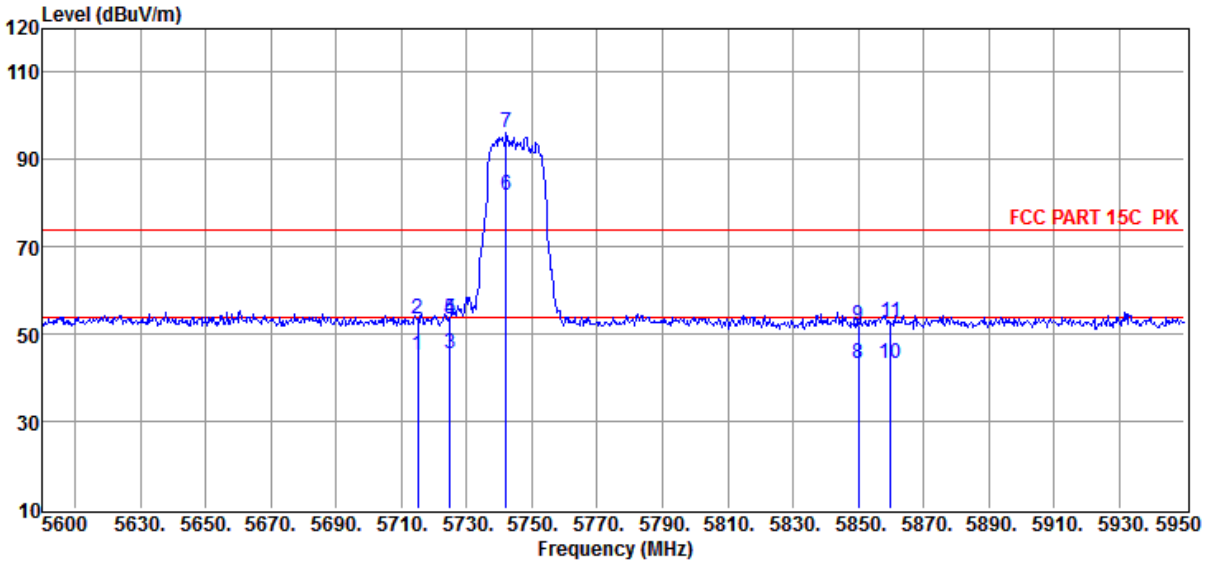


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715.00	49.60	35.59	43.37	8.03	49.85	109.4	-59.55	Average	VERTICAL
2	5715.00	72.89	35.59	43.37	8.03	73.14	109.4	-36.26	Peak	VERTICAL
3	5725.00	51.00	35.59	43.37	8.04	51.26	122.2	-70.94	Average	VERTICAL
4	5725.00	72.29	35.59	43.37	8.04	72.55	122.2	-49.65	Peak	VERTICAL
5	5800.55	84.65	35.62	43.32	8.08	85.03	125.2	-40.17	Average	VERTICAL
6	5800.55	108.28	35.62	43.32	8.08	108.66	125.2	-16.54	Peak	VERTICAL
7	5850.00	51.10	35.64	43.29	8.12	51.57	122.2	-70.63	Peak	VERTICAL
8	5850.00	71.41	35.64	43.29	8.12	71.88	122.2	-50.32	Peak	VERTICAL
9	5860.00	49.31	35.64	43.28	8.12	49.79	109.4	-59.61	Peak	VERTICAL
10	5860.00	67.17	35.64	43.28	8.12	67.65	109.4	-16.36	Average	VERTICAL
11	5715.00	49.60	35.59	43.37	8.03	49.85	109.4	-59.55	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11A 5745MHz			



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	44.96	35.59	43.37	8.03	45.21	109.4	-64.19	Average	HORIZONTAL
2	5715	53.22	35.59	43.37	8.03	53.47	109.4	-55.93	Peak	HORIZONTAL
3	5725	45.12	35.59	43.37	8.04	45.38	122.2	-76.82	Average	HORIZONTAL
4	5725	53.09	35.59	43.37	8.04	53.35	122.2	-68.85	Peak	HORIZONTAL
5	5742.1	81.69	35.6	43.35	8.05	81.99	125.2	-43.21	Average	HORIZONTAL
6	5742.1	95.9	35.6	43.35	8.05	96.20	125.2	-29.00	Peak	HORIZONTAL
7	5850	42.89	35.64	43.29	8.12	43.36	122.2	-78.84	Average	HORIZONTAL
8	5850	51.39	35.64	43.29	8.12	51.86	122.2	-70.34	Peak	HORIZONTAL
9	5860	42.66	35.64	43.28	8.12	43.14	109.4	-66.26	Average	HORIZONTAL
10	5860	52.41	35.64	43.28	8.12	52.89	109.4	-16.36	Peak	HORIZONTAL

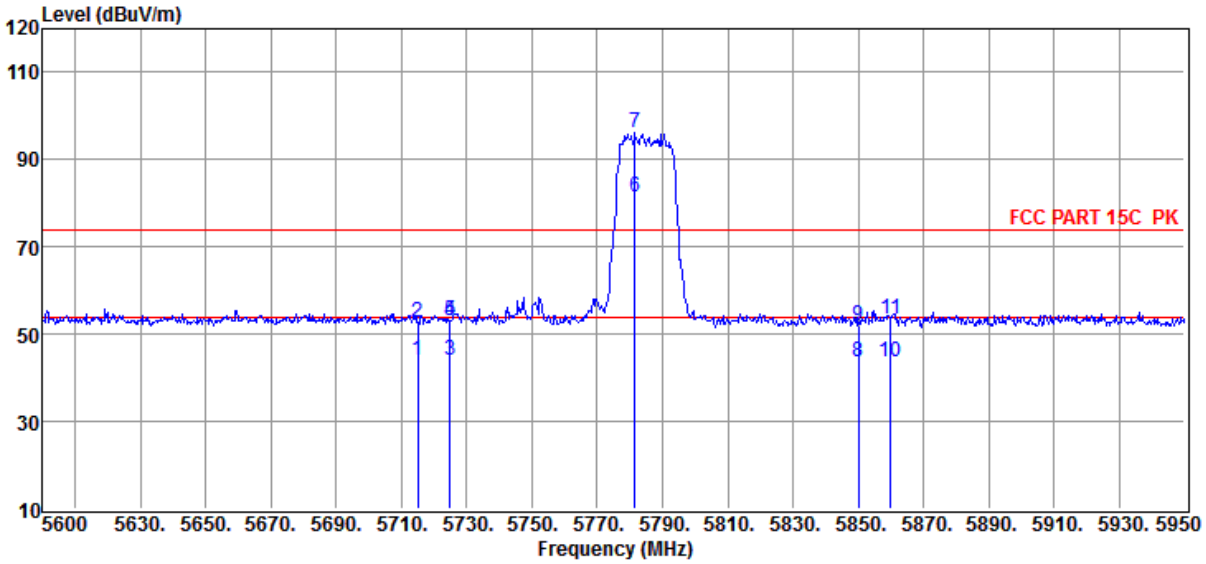
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11A 5785MHz			



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.61	35.59	43.37	8.03	43.86	109.4	-65.54	Average	HORIZONTAL
2	5715	52.52	35.59	43.37	8.03	52.77	109.4	-56.63	Peak	HORIZONTAL
3	5725	43.68	35.59	43.37	8.04	43.94	122.2	-78.26	Average	HORIZONTAL
4	5725	52.99	35.59	43.37	8.04	53.25	122.2	-68.95	Peak	HORIZONTAL
5	5781.65	81	35.61	43.33	8.07	81.35	125.2	-43.85	Average	HORIZONTAL
6	5781.65	95.77	35.61	43.33	8.07	96.12	125.2	-29.08	Peak	HORIZONTAL
7	5850	43.22	35.64	43.29	8.12	43.69	122.2	-78.51	Average	HORIZONTAL
8	5850	51.59	35.64	43.29	8.12	52.06	122.2	-70.14	Peak	HORIZONTAL
9	5860	42.98	35.64	43.28	8.12	43.46	109.4	-65.94	Average	HORIZONTAL
10	5860	52.88	35.64	43.28	8.12	53.36	109.4	-16.36	Peak	HORIZONTAL

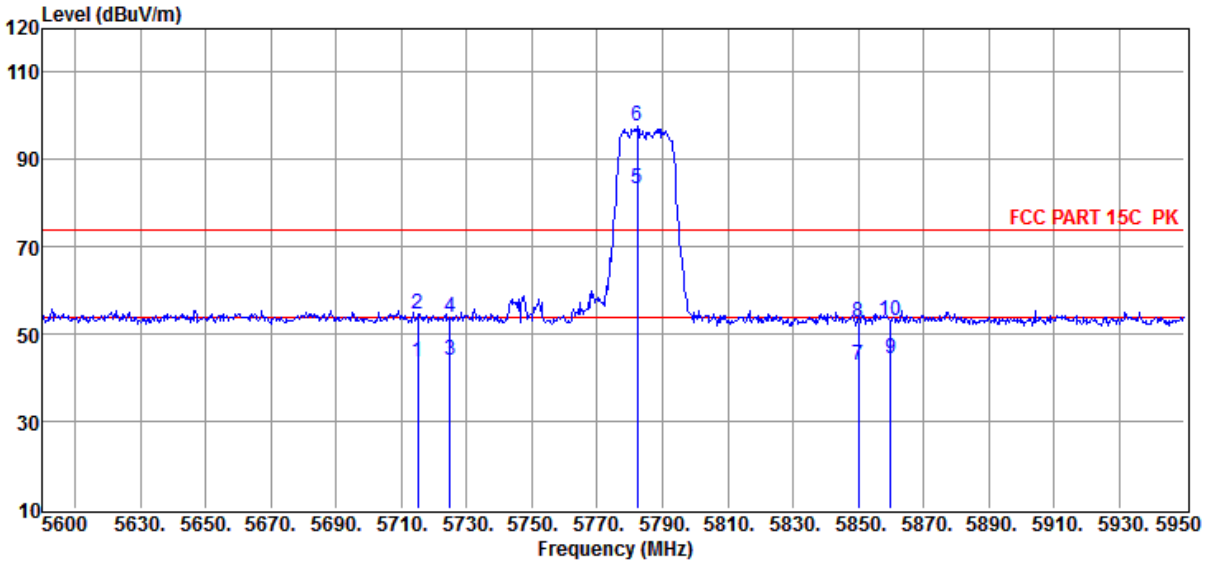
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11A 5785MHz		

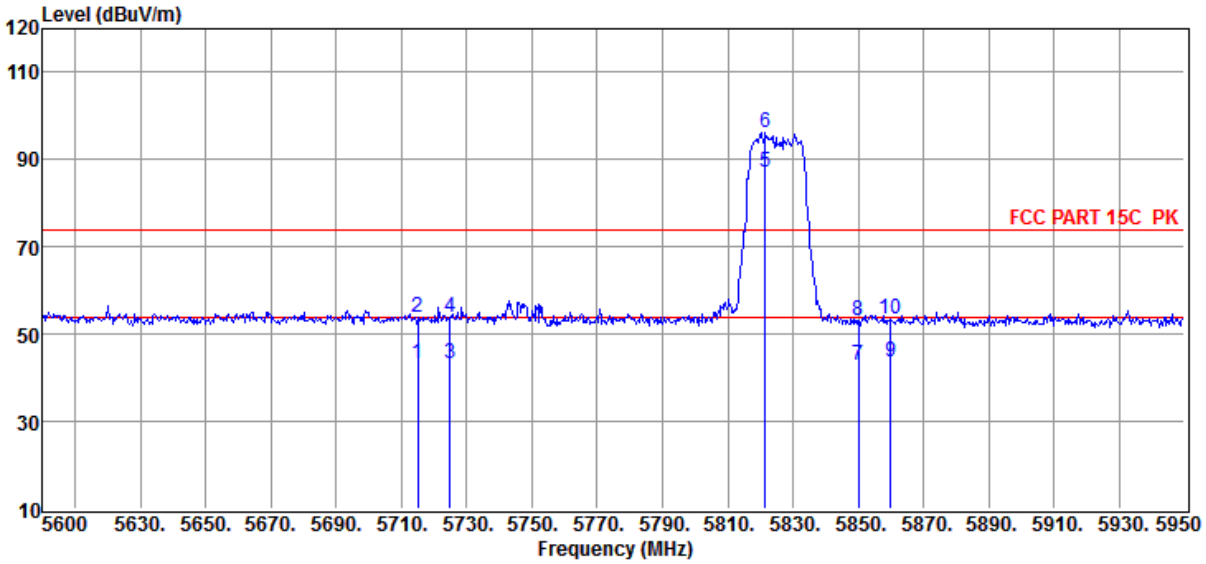


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.21	35.59	43.37	8.03	43.46	109.4	-65.94	Average	VERTICAL
2	5715	54.46	35.59	43.37	8.03	54.71	109.4	-54.69	Peak	VERTICAL
3	5725	43.66	35.59	43.37	8.04	43.92	122.2	-78.28	Average	VERTICAL
4	5725	53.59	35.59	43.37	8.04	53.85	122.2	-68.35	Peak	VERTICAL
5	5782.35	83.01	35.61	43.33	8.07	83.36	125.2	-41.84	Average	VERTICAL
6	5782.35	97.26	35.61	43.33	8.07	97.61	125.2	-27.59	Peak	VERTICAL
7	5850	42.46	35.64	43.29	8.12	42.93	122.2	-79.27	Average	VERTICAL
8	5850	52.24	35.64	43.29	8.12	52.71	122.2	-69.49	Peak	VERTICAL
9	5860	43.87	35.64	43.28	8.12	44.35	109.4	-65.05	Average	VERTICAL
10	5860	52.59	35.64	43.28	8.12	53.07	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11A 5825MHz		



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43	35.59	43.37	8.03	43.25	109.4	-66.15	Average	VERTICAL
2	5715	53.47	35.59	43.37	8.03	53.72	109.4	-55.68	Peak	VERTICAL
3	5725	43	35.59	43.37	8.04	43.26	122.2	-78.94	Average	VERTICAL
4	5725	53.62	35.59	43.37	8.04	53.88	122.2	-68.32	Peak	VERTICAL
5	5821.55	86.7	35.63	43.31	8.1	87.12	125.2	-38.08	Average	VERTICAL
6	5821.55	95.63	35.63	43.31	8.1	96.05	125.2	-29.15	Peak	VERTICAL
7	5850	42.3	35.64	43.29	8.12	42.77	122.2	-79.43	Average	VERTICAL
8	5850	52.6	35.64	43.29	8.12	53.07	122.2	-69.13	Peak	VERTICAL
9	5860	43.2	35.64	43.28	8.12	43.68	109.4	-65.72	Average	VERTICAL
10	5860	52.89	35.64	43.28	8.12	53.37	109.4	-16.36	Peak	VERTICAL

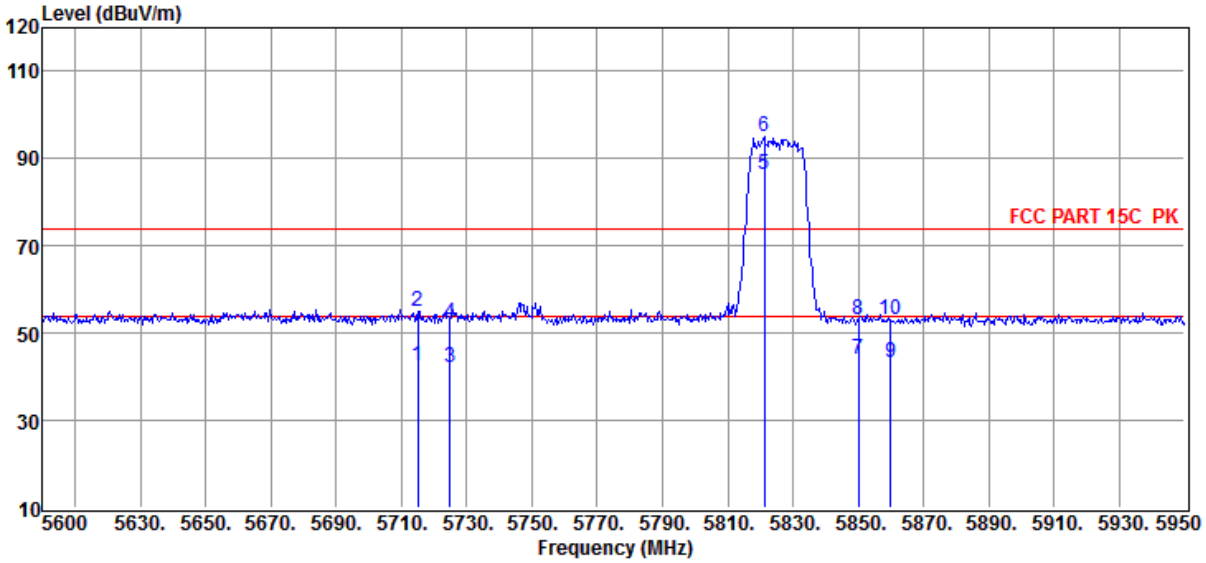
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11A 5825MHz		



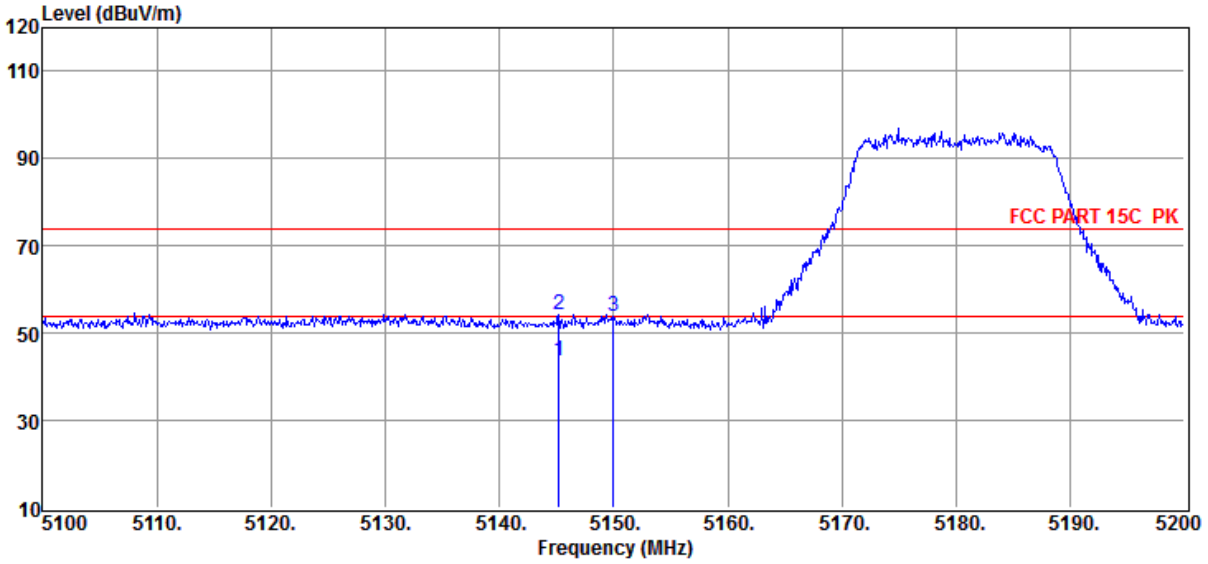
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.3	35.59	43.37	8.03	42.55	109.4	-66.85	Average	HORIZONTAL
2	5715	54.81	35.59	43.37	8.03	55.06	109.4	-54.34	Peak	HORIZONTAL
3	5725	42	35.59	43.37	8.04	42.26	122.2	-79.94	Average	HORIZONTAL
4	5725	52.22	35.59	43.37	8.04	52.48	122.2	-69.72	Peak	HORIZONTAL
5	5821.2	86	35.63	43.31	8.1	86.42	125.2	-38.78	Average	HORIZONTAL
6	5821.2	94.45	35.63	43.31	8.1	94.87	125.2	-30.33	Peak	HORIZONTAL
7	5850	43.4	35.64	43.29	8.12	43.87	122.2	-78.33	Average	HORIZONTAL
8	5850	52.67	35.64	43.29	8.12	53.14	122.2	-69.06	Peak	HORIZONTAL
9	5860	42.6	35.64	43.28	8.12	43.08	109.4	-66.32	Average	HORIZONTAL
10	5860	52.74	35.64	43.28	8.12	53.22	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11N20 5180MHz		

Data: 67



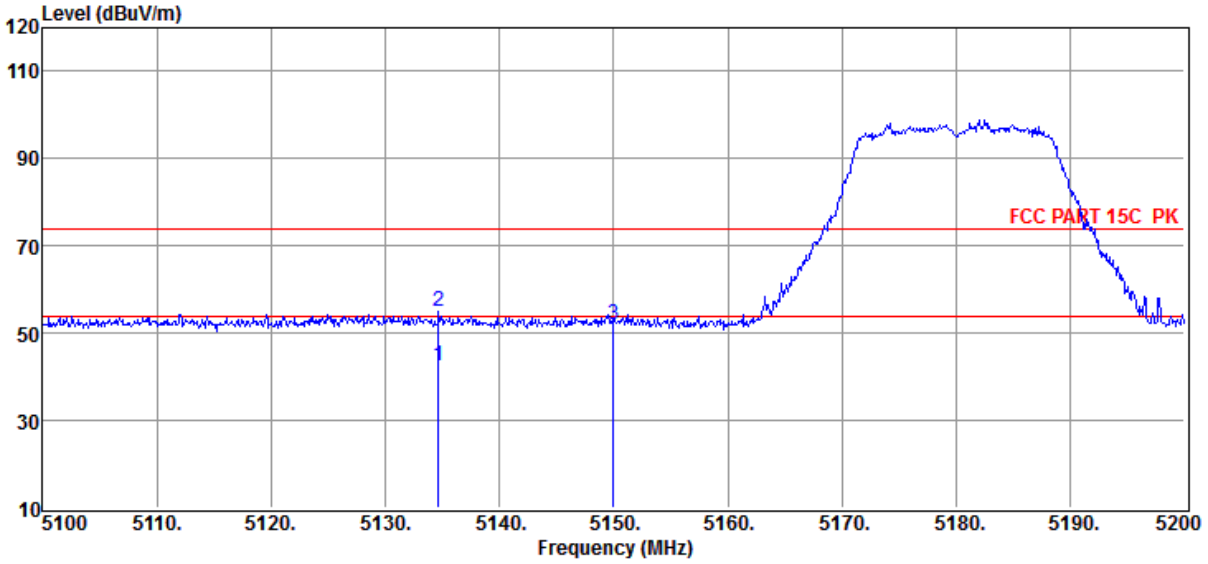
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5145.20	44.34	35.15	43.71	7.67	43.45	54.00	-10.55	Average	HORIZONTAL
2	5145.20	55.17	35.15	43.71	7.67	54.28	74.00	-19.72	Peak	HORIZONTAL
3	5150.00	54.84	35.15	43.71	7.67	53.95	74.00	-20.05	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N20 5180MHz		

Data: 68



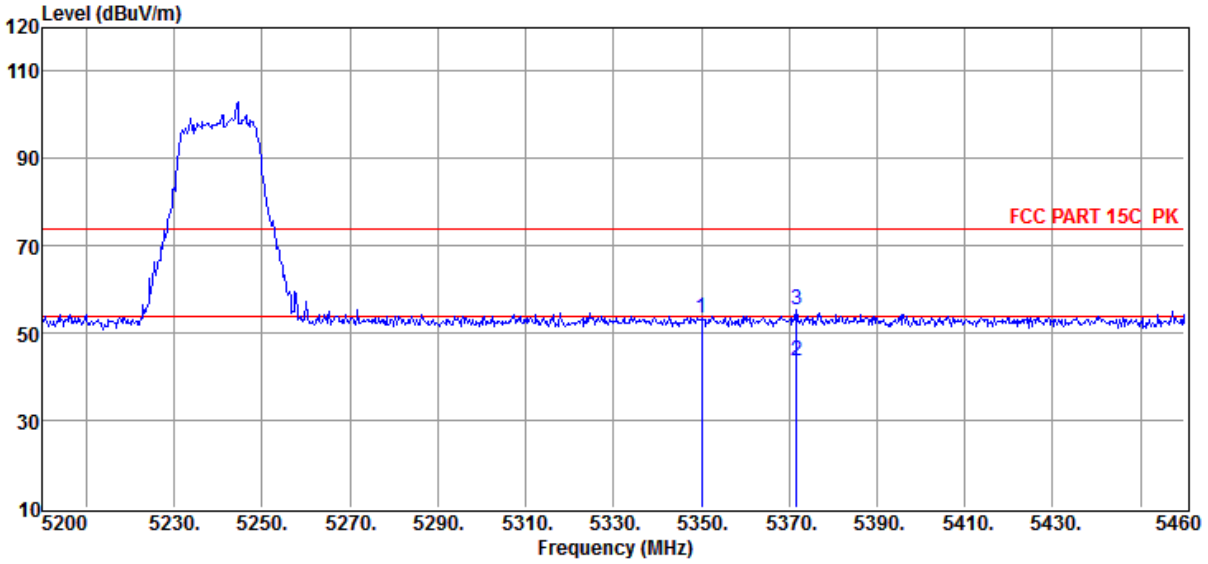
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5134.70	43.29	35.13	43.72	7.66	42.36	54.00	-11.64	Average	VERTICAL
2	5134.70	55.82	35.13	43.72	7.66	54.89	74.00	-19.11	Peak	VERTICAL
3	5150.00	52.87	35.15	43.71	7.67	51.98	74.00	-22.02	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N20 5240MHz		

Data: 69



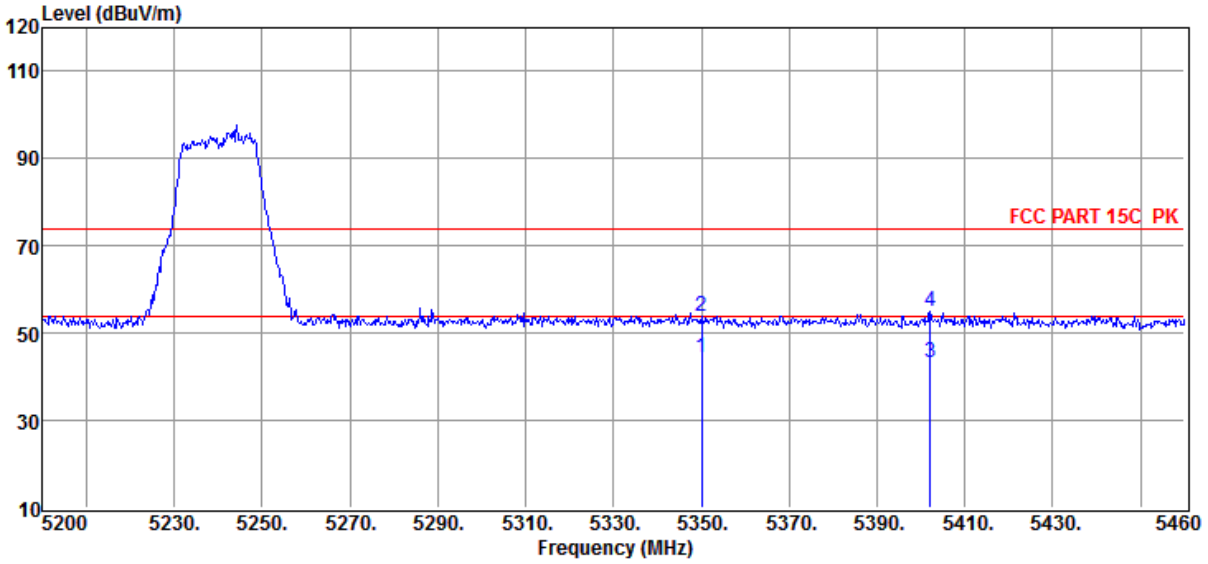
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	53.77	35.35	43.59	7.80	53.33	74.00	-20.67	Peak	VERTICAL
2	5371.60	44.13	35.37	43.58	7.81	43.73	54.00	-10.27	Average	VERTICAL
3	5371.60	55.76	35.37	43.58	7.81	55.36	74.00	-18.64	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11N20 5240MHz		

Data: 70

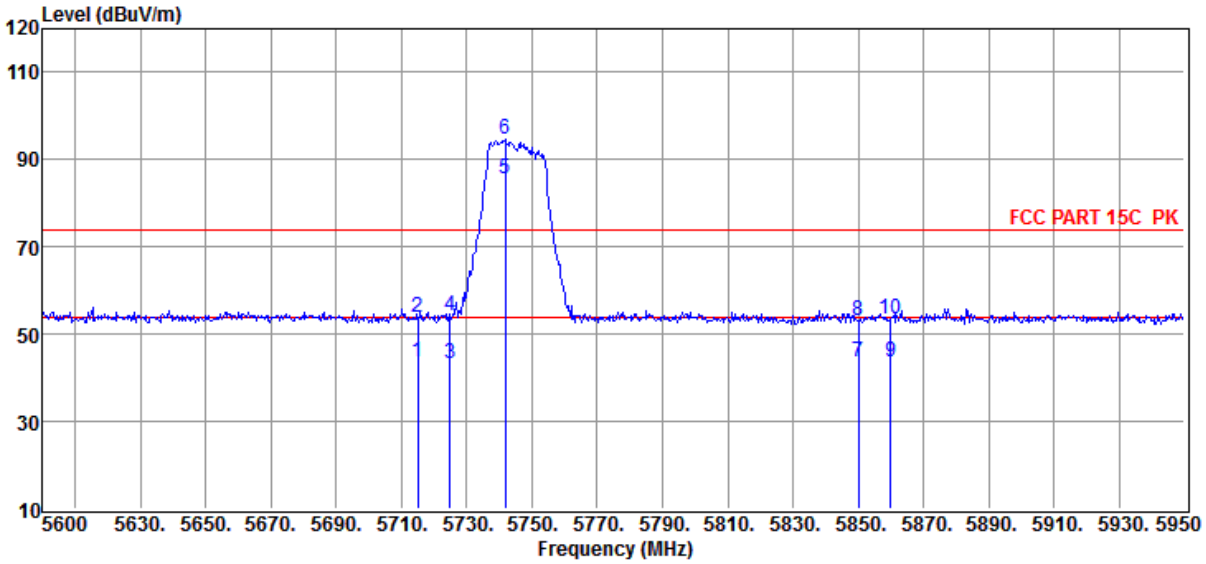


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	44.87	35.35	43.59	7.80	44.43	54.00	-9.57	Average	HORIZONTAL
2	5350.00	54.44	35.35	43.59	7.80	54.00	74.00	-20.00	Peak	HORIZONTAL
3	5402.02	43.76	35.40	43.56	7.83	43.43	54.00	-10.57	Average	HORIZONTAL
4	5402.02	55.16	35.40	43.56	7.83	54.83	74.00	-19.17	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11N20 5745MHz		

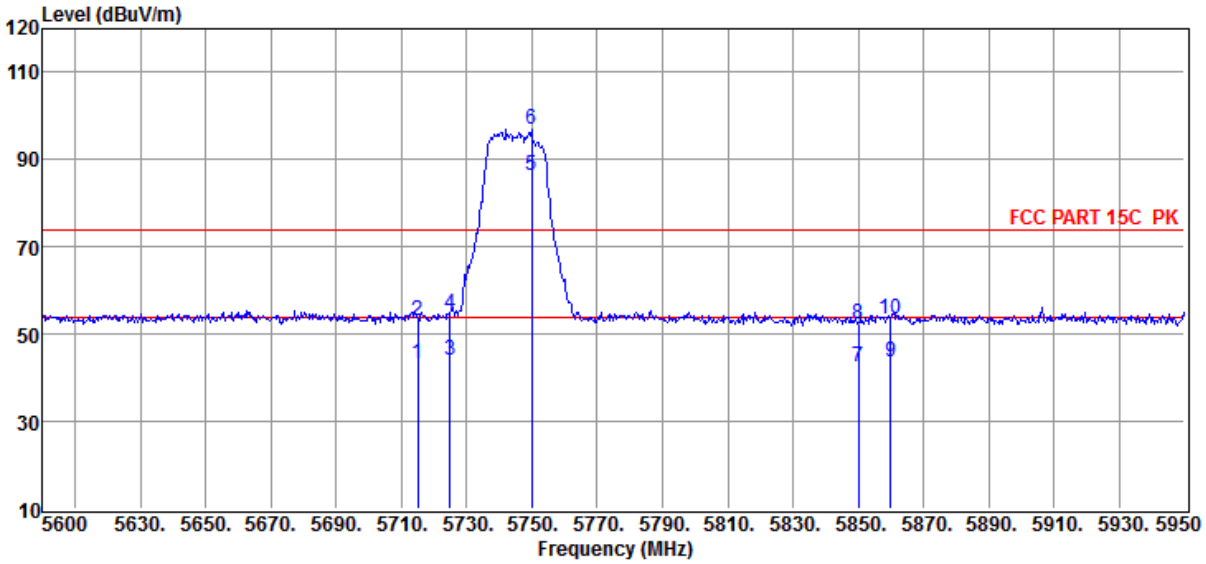


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.57	35.59	43.37	8.03	43.82	109.4	-65.58	Average	HORIZONTAL
2	5715	53.65	35.59	43.37	8.03	53.90	109.4	-55.50	Peak	HORIZONTAL
3	5725	43.16	35.59	43.37	8.04	43.42	122.2	-78.78	Average	HORIZONTAL
4	5725	53.82	35.59	43.37	8.04	54.08	122.2	-68.12	Peak	HORIZONTAL
5	5741.75	85.31	35.6	43.35	8.05	85.61	125.2	-39.59	Average	HORIZONTAL
6	5741.75	94.44	35.6	43.35	8.05	94.74	125.2	-30.46	Peak	HORIZONTAL
7	5850	43.33	35.64	43.29	8.12	43.80	122.2	-78.40	Average	HORIZONTAL
8	5850	52.51	35.64	43.29	8.12	52.98	122.2	-69.22	Peak	HORIZONTAL
9	5860	43.21	35.64	43.28	8.12	43.69	109.4	-65.71	Average	HORIZONTAL
10	5860	53.15	35.64	43.28	8.12	53.63	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N20 5745MHz		

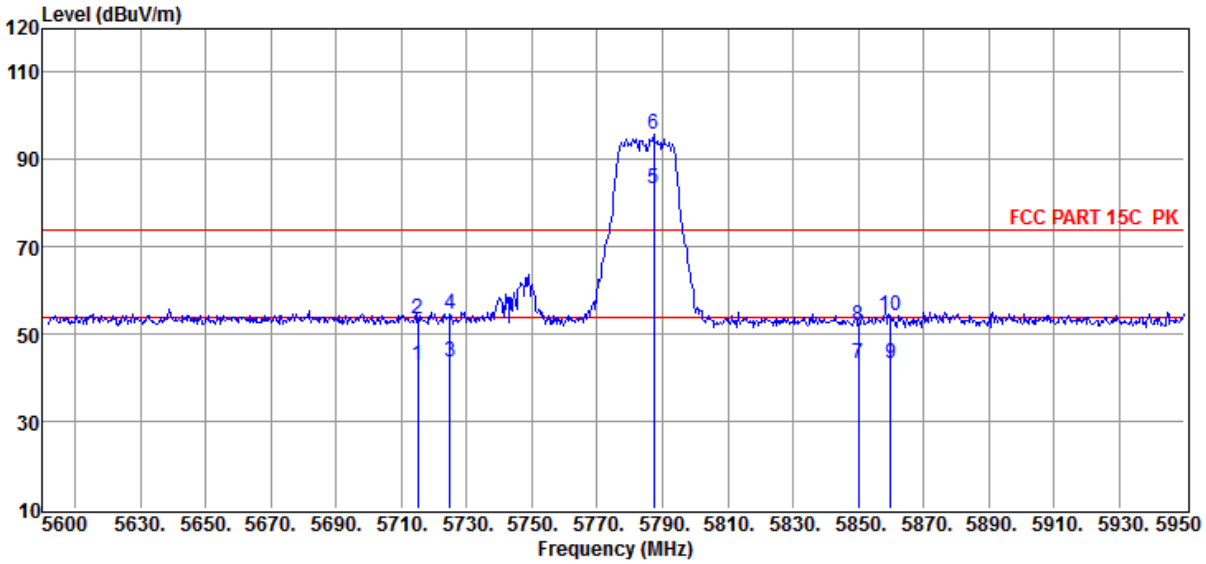


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.89	35.59	43.37	8.03	43.14	109.4	-66.26	Average	VERTICAL
2	5715	52.69	35.59	43.37	8.03	52.94	109.4	-56.46	Peak	VERTICAL
3	5725	43.67	35.59	43.37	8.04	43.93	122.2	-78.27	Average	VERTICAL
4	5725	54.34	35.59	43.37	8.04	54.60	122.2	-67.60	Peak	VERTICAL
5	5749.8	86.07	35.6	43.35	8.05	86.37	125.2	-38.83	Average	VERTICAL
6	5749.8	96.55	35.6	43.35	8.05	96.85	125.2	-28.35	Peak	VERTICAL
7	5850	41.97	35.64	43.29	8.12	42.44	122.2	-79.76	Average	VERTICAL
8	5850	51.98	35.64	43.29	8.12	52.45	122.2	-69.75	Peak	VERTICAL
9	5860	43.07	35.64	43.28	8.12	43.55	109.4	-65.85	Average	VERTICAL
10	5860	52.86	35.64	43.28	8.12	53.34	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N20 5785MHz		

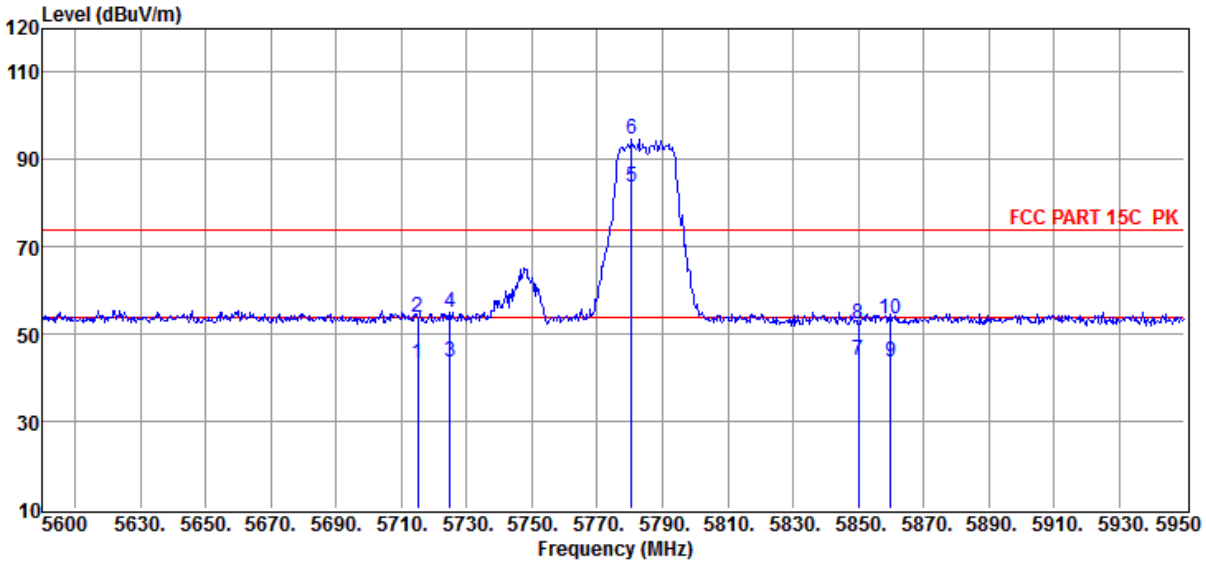


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.61	35.59	43.37	8.03	42.86	109.4	-66.54	Average	VERTICAL
2	5715	53.33	35.59	43.37	8.03	53.58	109.4	-55.82	Peak	VERTICAL
3	5725	43.25	35.59	43.37	8.04	43.51	122.2	-78.69	Average	VERTICAL
4	5725	54.18	35.59	43.37	8.04	54.44	122.2	-67.76	Peak	VERTICAL
5	5787.25	83.04	35.61	43.33	8.08	83.40	125.2	-41.80	Average	VERTICAL
6	5787.25	95.5	35.61	43.33	8.08	95.86	125.2	-29.34	Peak	VERTICAL
7	5850	42.9	35.64	43.29	8.12	43.37	122.2	-78.83	Average	VERTICAL
8	5850	51.66	35.64	43.29	8.12	52.13	122.2	-70.07	Peak	VERTICAL
9	5860	42.76	35.64	43.28	8.12	43.24	109.4	-66.16	Average	VERTICAL
10	5860	53.72	35.64	43.28	8.12	54.20	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11N20 5785MHz			



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.87	35.59	43.37	8.03	43.12	109.4	-66.28	Average	HORIZONTAL
2	5715	53.49	35.59	43.37	8.03	53.74	109.4	-55.66	Peak	HORIZONTAL
3	5725	43.51	35.59	43.37	8.04	43.77	122.2	-78.43	Average	HORIZONTAL
4	5725	54.73	35.59	43.37	8.04	54.99	122.2	-67.21	Peak	HORIZONTAL
5	5780.6	83.21	35.61	43.33	8.07	83.56	125.2	-41.64	Average	HORIZONTAL
6	5780.6	94.17	35.61	43.33	8.07	94.52	125.2	-30.68	Peak	HORIZONTAL
7	5850	43.44	35.64	43.29	8.12	43.91	122.2	-78.29	Average	HORIZONTAL
8	5850	52.02	35.64	43.29	8.12	52.49	122.2	-69.71	Peak	HORIZONTAL
9	5860	43.21	35.64	43.28	8.12	43.69	109.4	-65.71	Average	HORIZONTAL
10	5860	53.04	35.64	43.28	8.12	53.52	109.4	-16.36	Peak	HORIZONTAL

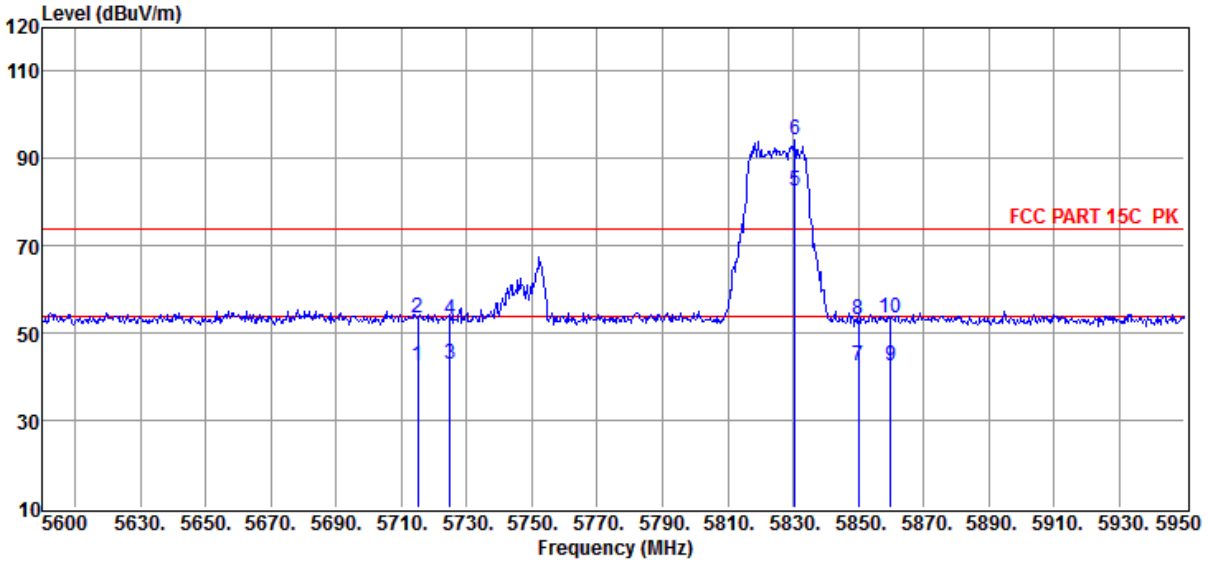
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11N20 5825MHz		



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.36	35.59	43.37	8.03	42.61	109.4	-66.79	Average	HORIZONTAL
2	5715	53.14	35.59	43.37	8.03	53.39	109.4	-56.01	Peak	HORIZONTAL
3	5725	42.68	35.59	43.37	8.04	42.94	122.2	-79.26	Average	HORIZONTAL
4	5725	52.93	35.59	43.37	8.04	53.19	122.2	-69.01	Peak	HORIZONTAL
5	5830.65	82.31	35.63	43.3	8.1	82.74	125.2	-42.46	Average	HORIZONTAL
6	5830.65	94.01	35.63	43.3	8.1	94.44	125.2	-30.76	Peak	HORIZONTAL
7	5850	42.19	35.64	43.29	8.12	42.66	122.2	-79.54	Average	HORIZONTAL
8	5850	52.54	35.64	43.29	8.12	53.01	122.2	-69.19	Peak	HORIZONTAL
9	5860	41.92	35.64	43.28	8.12	42.40	109.4	-67.00	Average	HORIZONTAL
10	5860	53.18	35.64	43.28	8.12	53.66	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

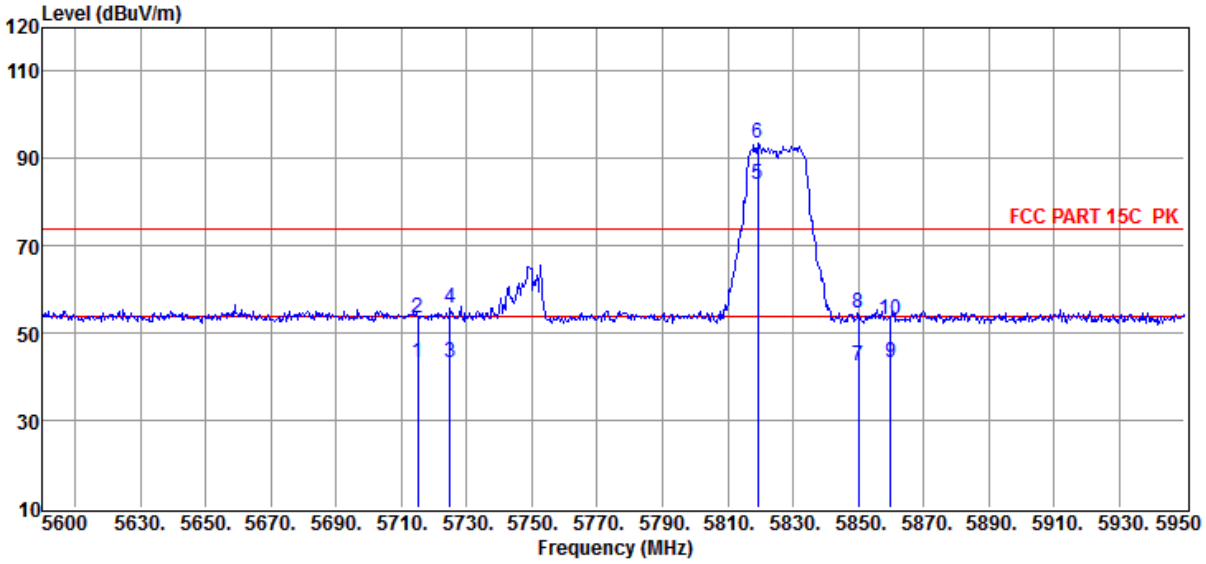
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N20 5785MHz		

Data: 76



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.11	35.59	43.37	8.03	43.36	109.4	-66.04	Average	VERTICAL
2	5715	53.09	35.59	43.37	8.03	53.34	109.4	-56.06	Peak	VERTICAL
3	5725	42.97	35.59	43.37	8.04	43.23	122.2	-78.97	Average	VERTICAL
4	5725	55.37	35.59	43.37	8.04	55.63	122.2	-66.57	Peak	VERTICAL
5	5819.1	83.67	35.63	43.31	8.1	84.09	125.2	-41.11	Average	VERTICAL
6	5819.1	93.16	35.63	43.31	8.1	93.58	125.2	-31.62	Peak	VERTICAL
7	5850	42.16	35.64	43.29	8.12	42.63	122.2	-79.57	Average	VERTICAL
8	5850	54.2	35.64	43.29	8.12	54.67	122.2	-67.53	Peak	VERTICAL
9	5860	42.62	35.64	43.28	8.12	43.10	109.4	-66.30	Average	VERTICAL
10	5860	52.61	35.64	43.28	8.12	53.09	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

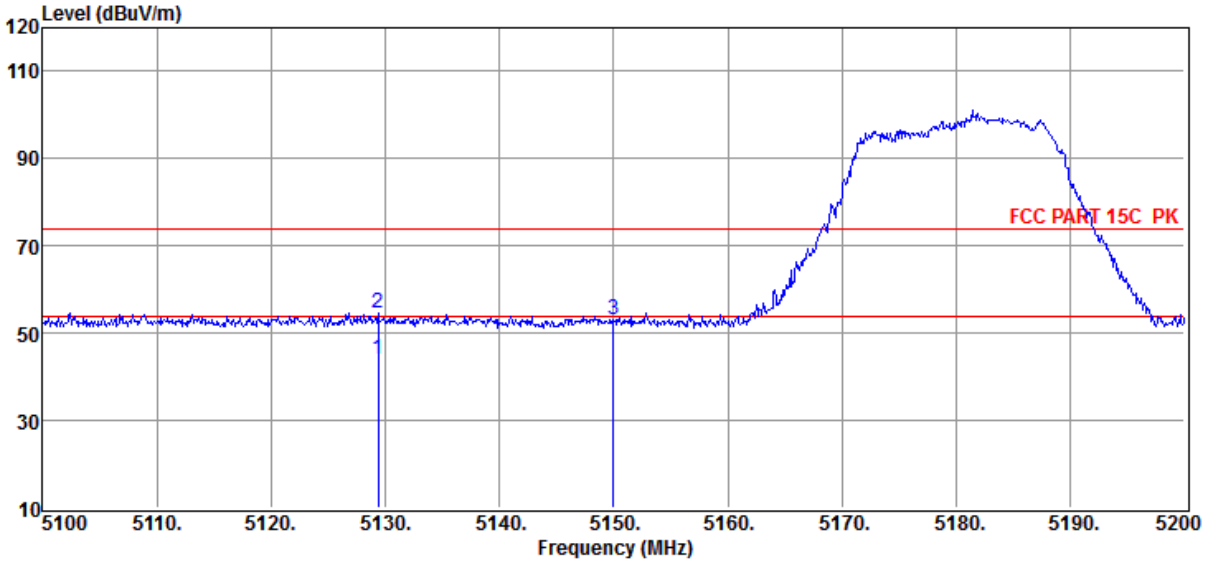
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC20 5180MHz		

Data: 77



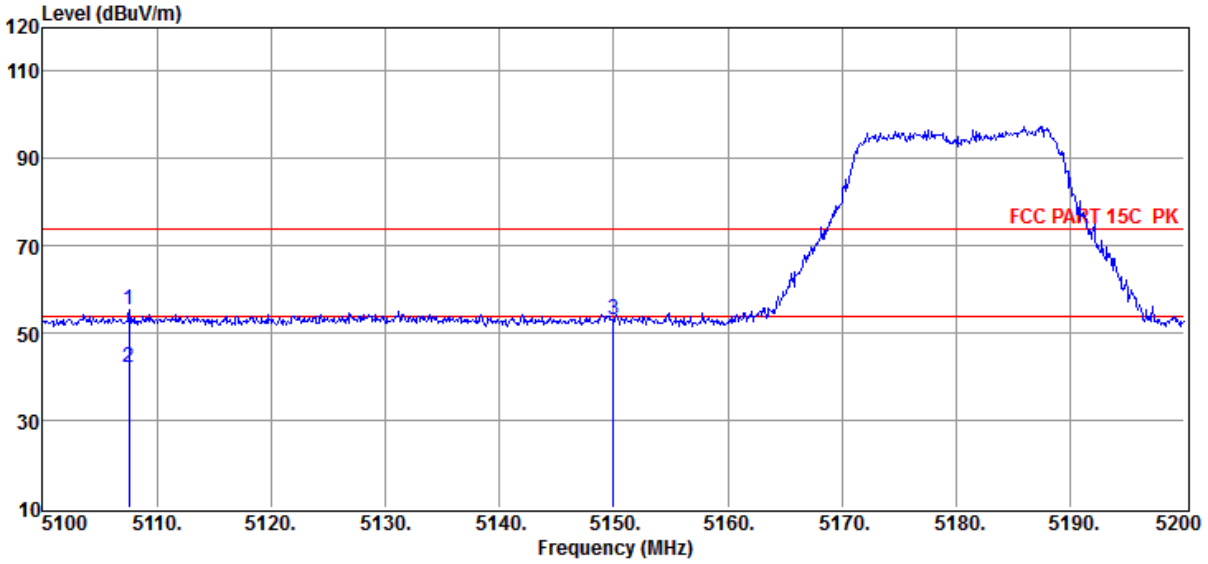
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5129.40	44.78	35.13	43.72	7.66	43.85	54.00	-10.15	Average	VERTICAL
2	5129.40	55.69	35.13	43.72	7.66	54.76	74.00	-19.24	Peak	VERTICAL
3	5150.00	53.91	35.15	43.71	7.67	53.02	74.00	-20.98	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11AC20 5180MHz		

Data: 78



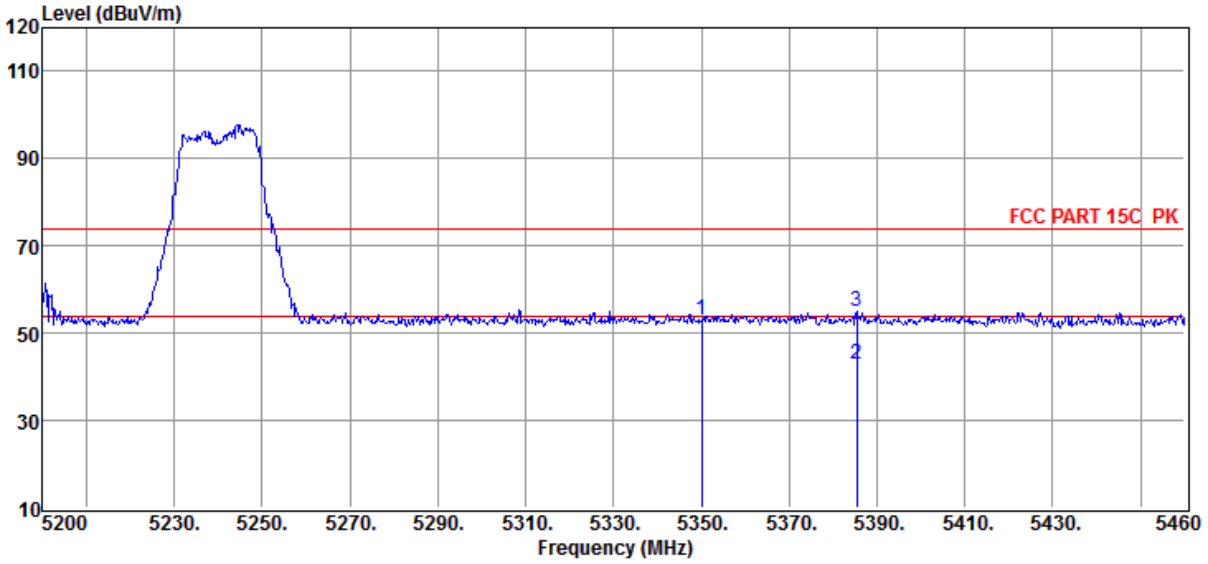
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5107.60	56.39	35.11	43.74	7.65	55.41	74.00	-18.59	Peak	HORIZONTAL
2	5107.60	42.95	35.11	43.74	7.65	41.97	74.00	-32.03	Peak	HORIZONTAL
3	5150.00	53.97	35.15	43.71	7.67	53.08	74.00	-20.92	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11AC20 5240MHz		

Data: 79



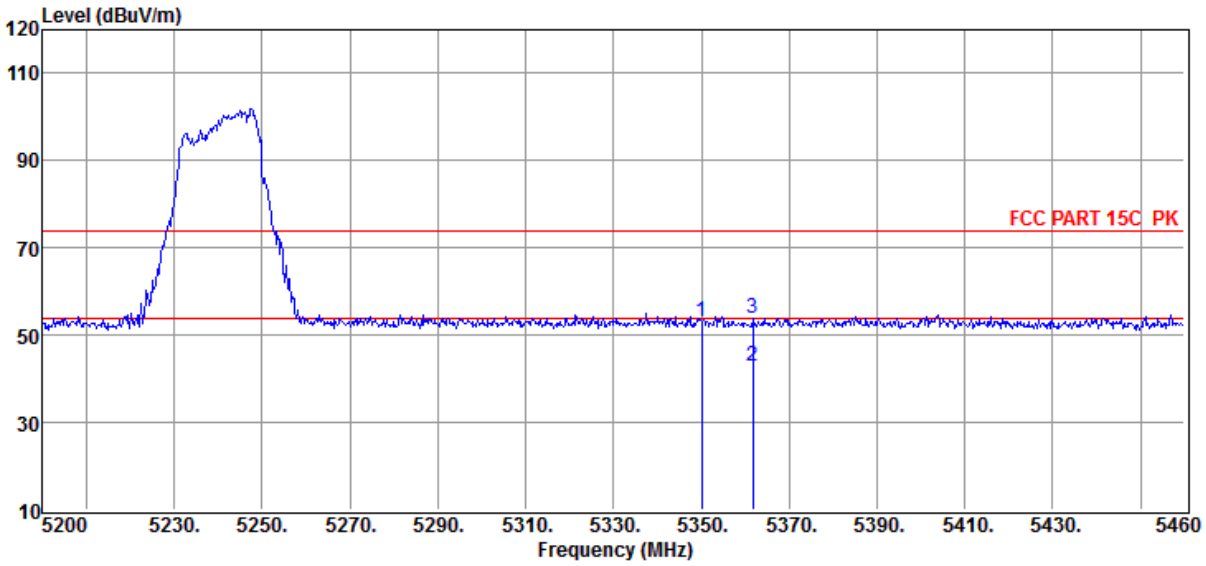
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	53.61	35.35	43.59	7.80	53.17	74.00	-20.83	Peak	HORIZONTAL
2	5385.38	43.17	35.39	43.57	7.82	42.81	54.00	-11.19	Average	HORIZONTAL
3	5385.38	55.25	35.39	43.57	7.82	54.89	74.00	-19.11	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC20 5240MHz		

Data: 80



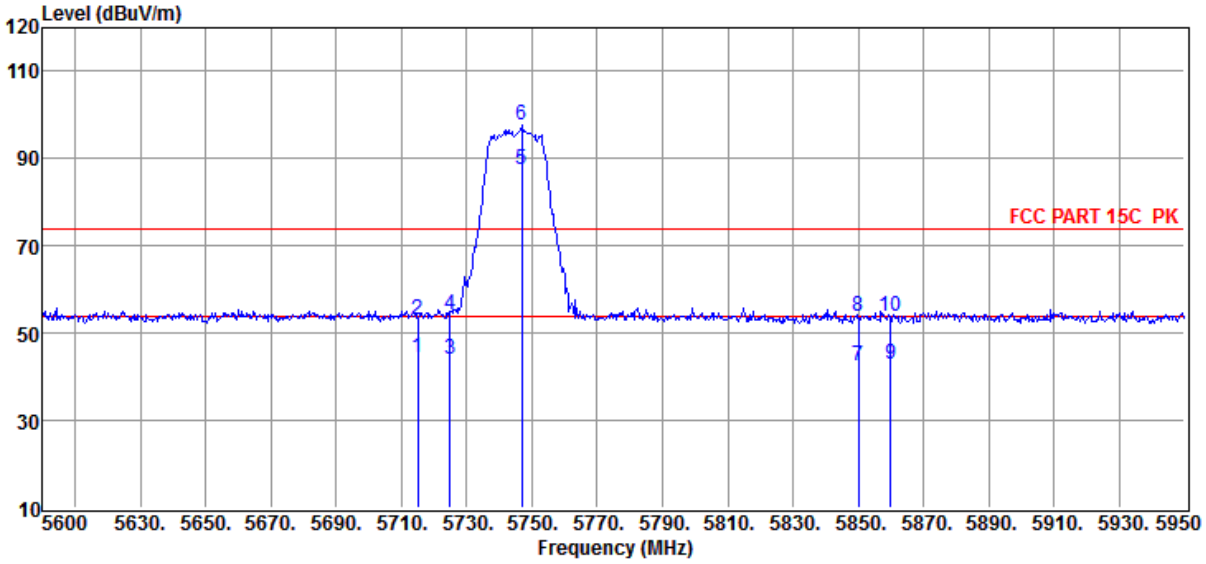
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	53.47	35.35	43.59	7.80	53.03	74.00	-20.97	Peak	VERTICAL
2	5361.72	43.22	35.36	43.58	7.81	42.81	54.00	-11.19	Average	VERTICAL
3	5361.72	54.42	35.36	43.58	7.81	54.01	74.00	-19.99	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/VERTICAL
Memo	:	11AC20 5745MHz			

Data: 81



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	44.17	35.59	43.37	8.03	44.42	109.4	-64.98	Average	VERTICAL
2	5715	52.82	35.59	43.37	8.03	53.07	109.4	-56.33	Peak	VERTICAL
3	5725	43.6	35.59	43.37	8.04	43.86	122.2	-78.34	Average	VERTICAL
4	5725	54.13	35.59	43.37	8.04	54.39	122.2	-67.81	Peak	VERTICAL
5	5747	87.12	35.6	43.35	8.05	87.42	125.2	-37.78	Average	VERTICAL
6	5747	97.26	35.6	43.35	8.05	97.56	125.2	-27.64	Peak	VERTICAL
7	5850	41.97	35.64	43.29	8.12	42.44	122.2	-79.76	Average	VERTICAL
8	5850	53.28	35.64	43.29	8.12	53.75	122.2	-68.45	Peak	VERTICAL
9	5860	42.43	35.64	43.28	8.12	42.91	109.4	-66.49	Average	VERTICAL
10	5860	53.47	35.64	43.28	8.12	53.95	109.4	-16.36	Peak	VERTICAL

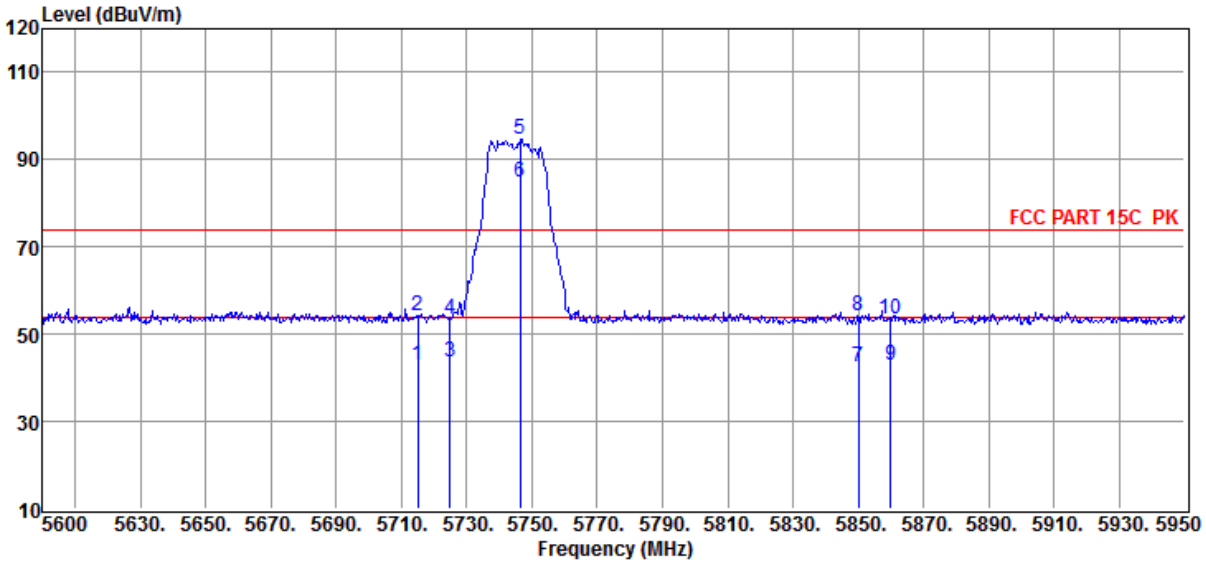
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11AC20 5745MHz			

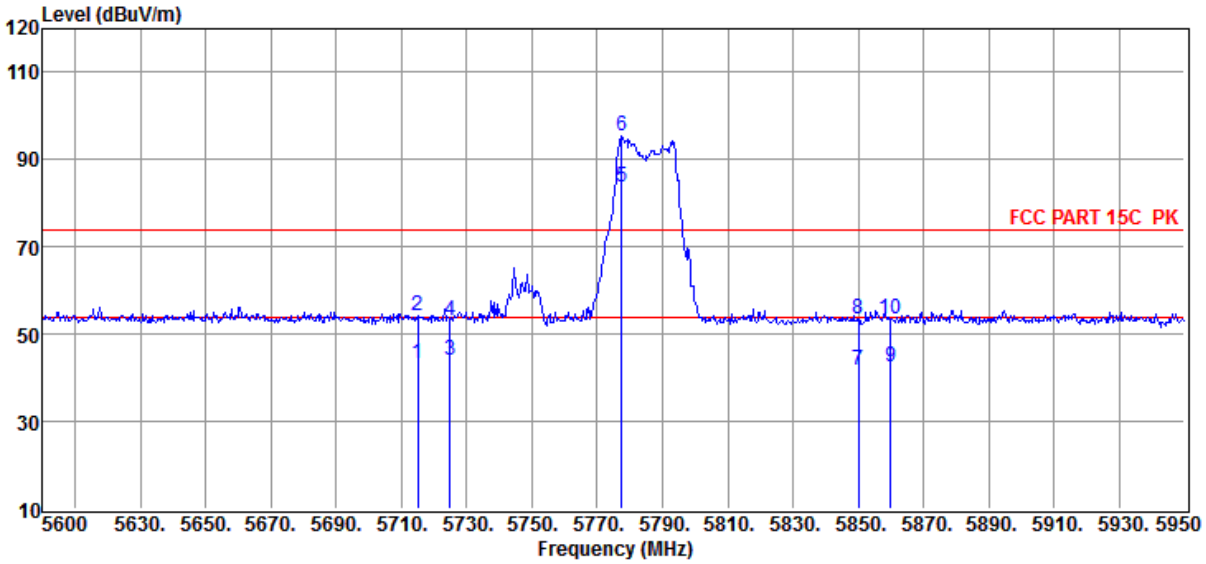


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.57	35.59	43.37	8.03	42.82	109.4	-66.58	Average	HORIZONTAL
2	5715	54.11	35.59	43.37	8.03	54.36	109.4	-55.04	Peak	HORIZONTAL
3	5725	43.27	35.59	43.37	8.04	43.53	122.2	-78.67	Average	HORIZONTAL
4	5725	53.29	35.59	43.37	8.04	53.55	122.2	-68.65	Peak	HORIZONTAL
5	5746.3	94.51	35.6	43.35	8.05	94.81	125.2	-30.39	Peak	HORIZONTAL
6	5746.3	84.57	35.6	43.35	8.05	84.87	125.2	-40.33	Peak	HORIZONTAL
7	5850	42.13	35.64	43.29	8.12	42.60	122.2	-79.60	Average	HORIZONTAL
8	5850	53.74	35.64	43.29	8.12	54.21	122.2	-67.99	Peak	HORIZONTAL
9	5860	42.38	35.64	43.28	8.12	42.86	109.4	-66.54	Average	HORIZONTAL
10	5860	52.81	35.64	43.28	8.12	53.29	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11AC20 5785MHz		



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.96	35.59	43.37	8.03	43.21	109.4	-66.19	Average	HORIZONTAL
2	5715	54.14	35.59	43.37	8.03	54.39	109.4	-55.01	Peak	HORIZONTAL
3	5725	43.74	35.59	43.37	8.04	44.00	122.2	-78.20	Average	HORIZONTAL
4	5725	53	35.59	43.37	8.04	53.26	122.2	-68.94	Peak	HORIZONTAL
5	5777.45	83.49	35.61	43.33	8.07	83.84	125.2	-41.36	Average	HORIZONTAL
6	5777.45	94.93	35.61	43.33	8.07	95.28	125.2	-29.92	Peak	HORIZONTAL
7	5850	41.36	35.64	43.29	8.12	41.83	122.2	-80.37	Average	HORIZONTAL
8	5850	52.9	35.64	43.29	8.12	53.37	122.2	-68.83	Peak	HORIZONTAL
9	5860	41.88	35.64	43.28	8.12	42.36	109.4	-67.04	Average	HORIZONTAL
10	5860	53	35.64	43.28	8.12	53.48	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

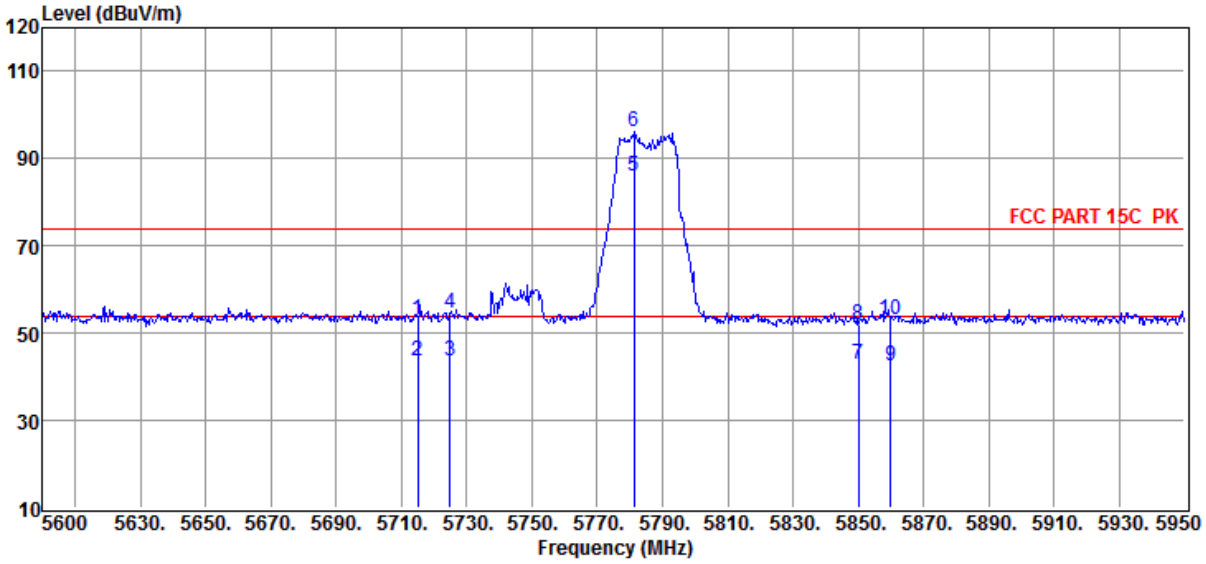
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC20 5785MHz		

Data: 84



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	52.72	35.59	43.37	8.03	52.97	109.4	-56.43	Peak	VERTICAL
2	5715	43.21	35.59	43.37	8.03	43.46	109.4	-65.94	Peak	VERTICAL
3	5725	43.51	35.59	43.37	8.04	43.77	122.2	-78.43	Average	VERTICAL
4	5725	54.27	35.59	43.37	8.04	54.53	122.2	-67.67	Peak	VERTICAL
5	5781.3	85.68	35.61	43.33	8.07	86.03	125.2	-39.17	Average	VERTICAL
6	5781.3	95.91	35.61	43.33	8.07	96.26	125.2	-28.94	Peak	VERTICAL
7	5850	42.31	35.64	43.29	8.12	42.78	122.2	-79.42	Average	VERTICAL
8	5850	51.51	35.64	43.29	8.12	51.98	122.2	-70.22	Peak	VERTICAL
9	5860	41.95	35.64	43.28	8.12	42.43	109.4	-66.97	Average	VERTICAL
10	5860	52.63	35.64	43.28	8.12	53.11	109.4	-16.36	Peak	VERTICAL

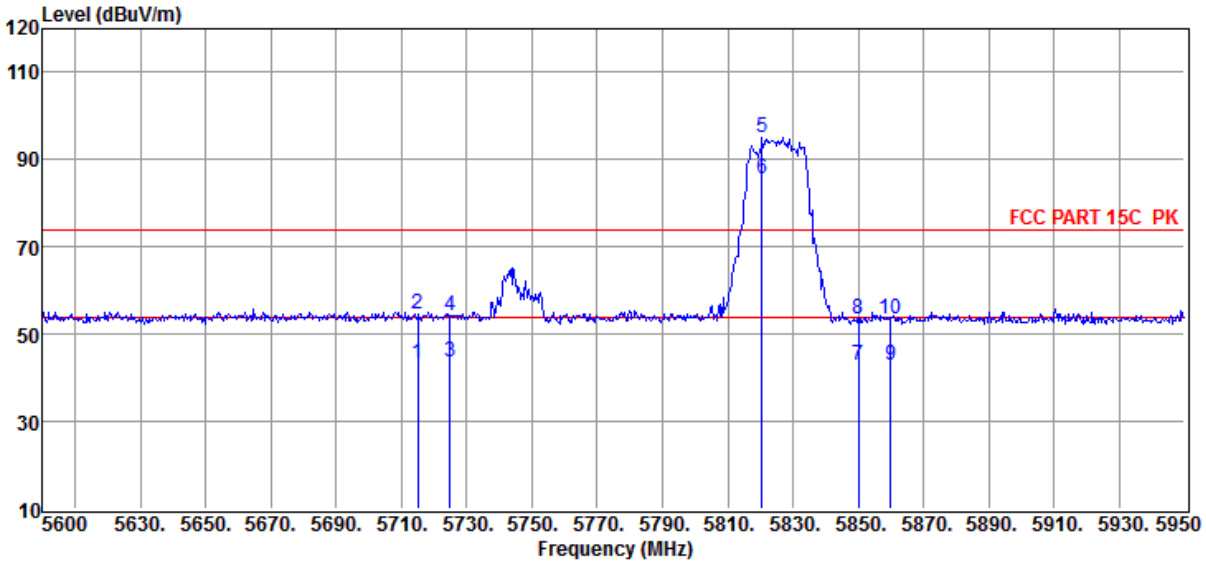
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/VERTICAL
Memo	:	11AC20 5825MHz			

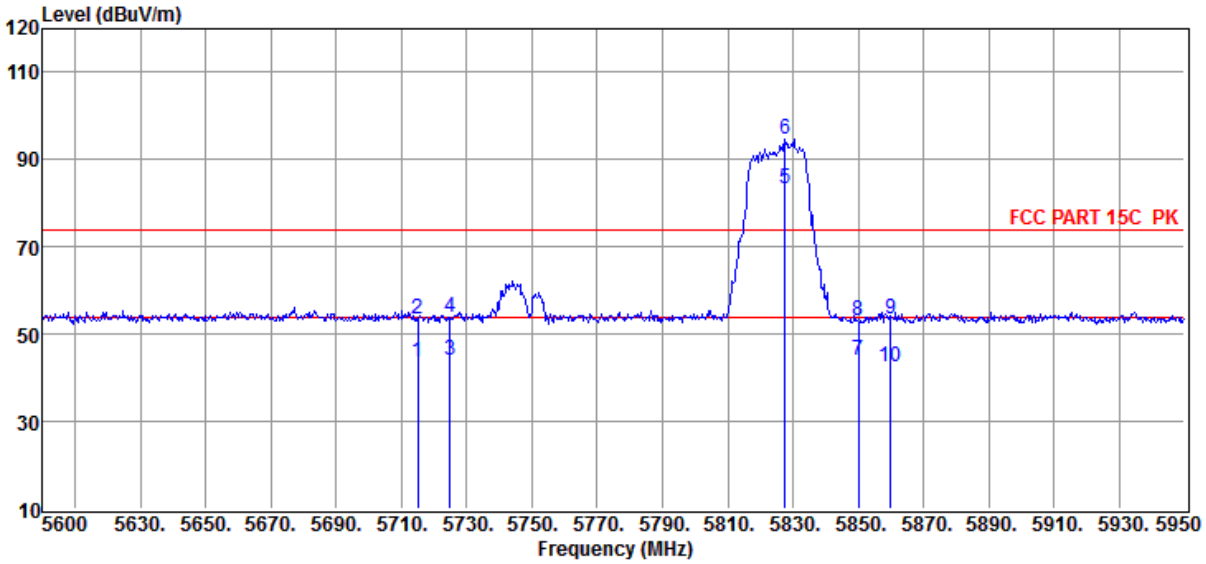


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.96	35.59	43.37	8.03	43.21	109.4	-66.19	Average	VERTICAL
2	5715	54.28	35.59	43.37	8.03	54.53	109.4	-54.87	Peak	VERTICAL
3	5725	43.43	35.59	43.37	8.04	43.69	122.2	-78.51	Average	VERTICAL
4	5725	53.96	35.59	43.37	8.04	54.22	122.2	-67.98	Peak	VERTICAL
5	5820.5	94.51	35.63	43.31	8.1	94.93	125.2	-30.27	Peak	VERTICAL
6	5820.5	85.21	35.63	43.31	8.1	85.63	125.2	-39.57	Peak	VERTICAL
7	5850	42.35	35.64	43.29	8.12	42.82	122.2	-79.38	Peak	VERTICAL
8	5850	53.11	35.64	43.29	8.12	53.58	122.2	-68.62	Peak	VERTICAL
9	5860	42.33	35.64	43.28	8.12	42.81	109.4	-66.59	Average	VERTICAL
10	5860	53.16	35.64	43.28	8.12	53.64	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11AC20 5825MHz		



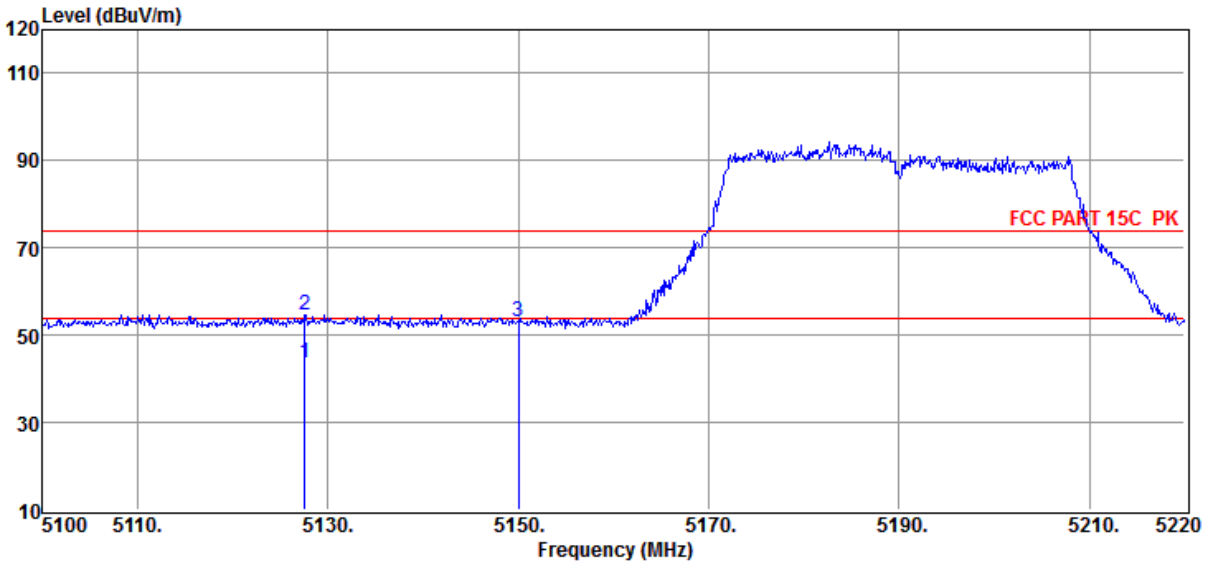
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.47	35.59	43.37	8.03	43.72	109.4	-65.68	Average	HORIZONTAL
2	5715	53.32	35.59	43.37	8.03	53.57	109.4	-55.83	Peak	HORIZONTAL
3	5725	43.63	35.59	43.37	8.04	43.89	122.2	-78.31	Average	HORIZONTAL
4	5725	53.42	35.59	43.37	8.04	53.68	122.2	-68.52	Peak	HORIZONTAL
5	5827.5	82.76	35.63	43.3	8.1	83.19	125.2	-42.01	Average	HORIZONTAL
6	5827.5	94.21	35.63	43.3	8.1	94.64	125.2	-30.56	Peak	HORIZONTAL
7	5850	43.67	35.64	43.29	8.12	44.14	122.2	-78.06	Average	HORIZONTAL
8	5850	52.62	35.64	43.29	8.12	53.09	122.2	-69.11	Peak	HORIZONTAL
9	5860	53.17	35.64	43.28	8.12	53.65	109.4	-55.75	Peak	HORIZONTAL
10	5860	42.18	35.64	43.28	8.12	42.66	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11N40 5190MHz			

Data: 87



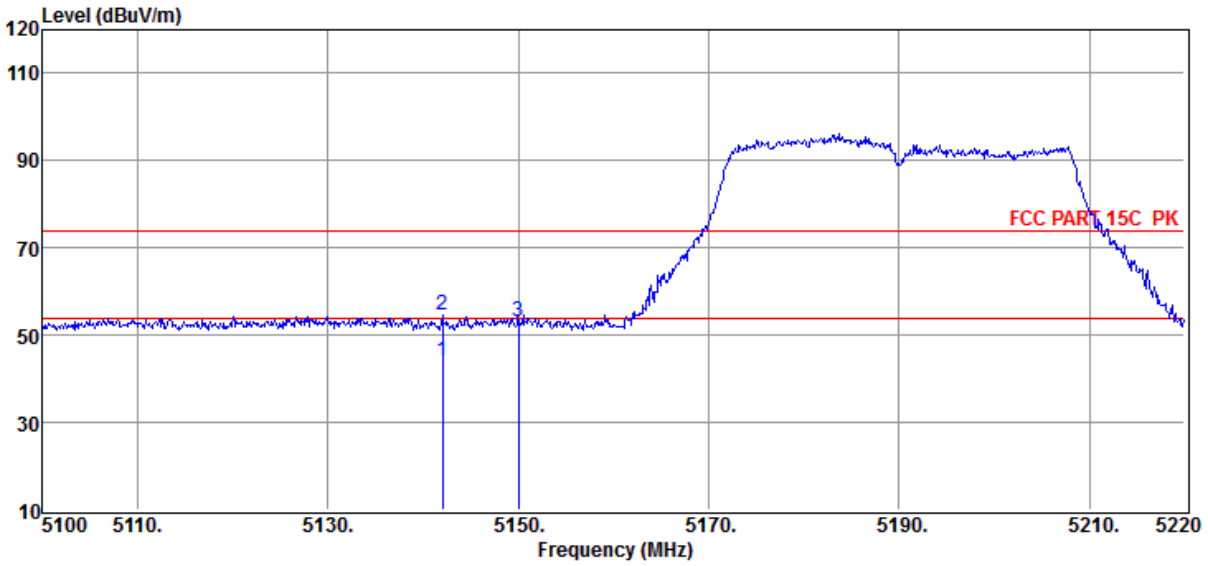
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5127.60	44.73	35.13	43.72	7.66	43.80	54.00	-10.20	Average	HORIZONTAL
2	5127.60	55.68	35.13	43.72	7.66	54.75	74.00	-19.25	Peak	HORIZONTAL
3	5150.00	54.11	35.15	43.71	7.67	53.22	74.00	-20.78	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N40 5190MHz		

Data: 88



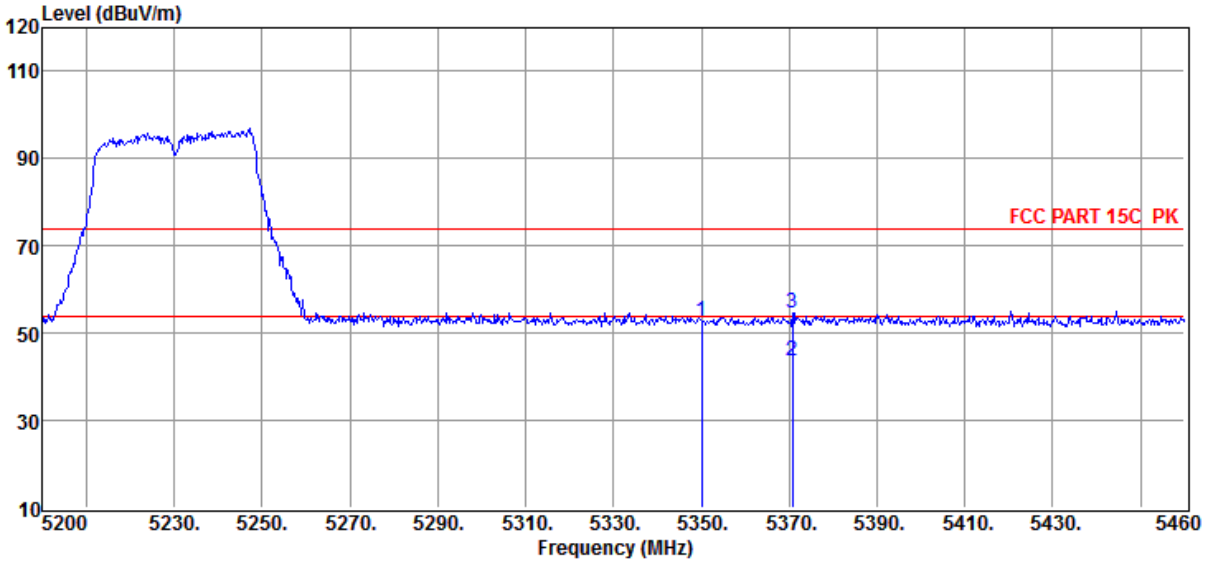
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5142.00	44.78	35.14	43.71	7.67	43.88	54.00	-10.12	Average	VERTICAL
2	5142.00	55.52	35.14	43.71	7.67	54.62	74.00	-19.38	Peak	VERTICAL
3	5150.00	53.95	35.15	43.71	7.67	53.06	74.00	-20.94	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N40 5230MHz		

Data: 89



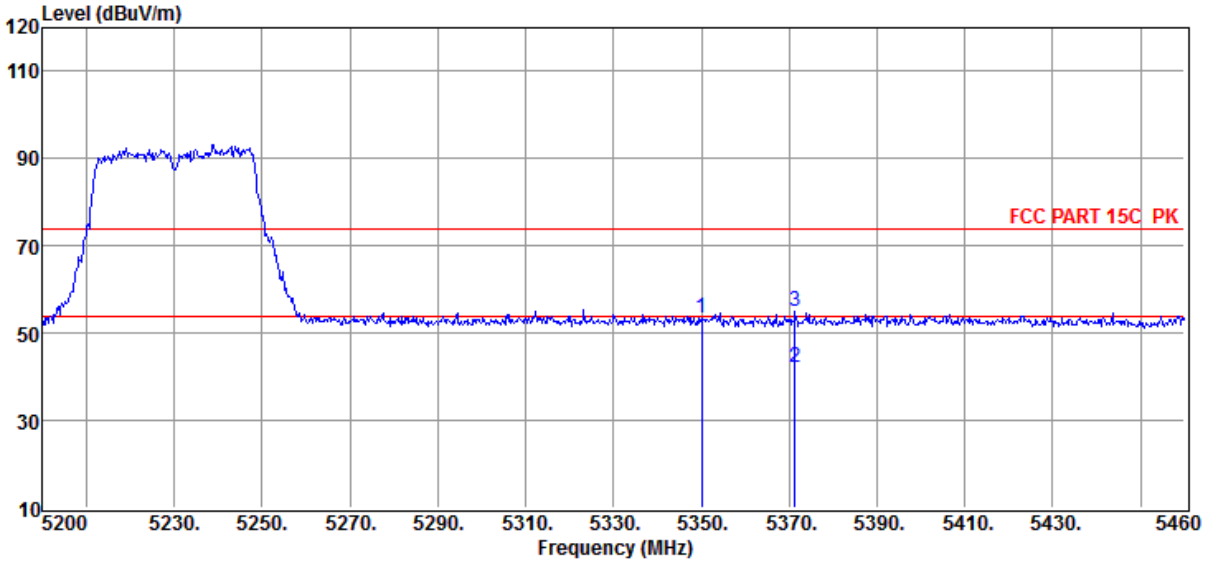
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	53.13	35.35	43.59	7.80	52.69	74.00	-21.31	Peak	VERTICAL
2	5370.82	43.88	35.37	43.58	7.81	43.48	54.00	-10.52	Average	VERTICAL
3	5370.82	55.14	35.37	43.58	7.81	54.74	74.00	-19.26	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11N40 5230MHz		

Data: 90



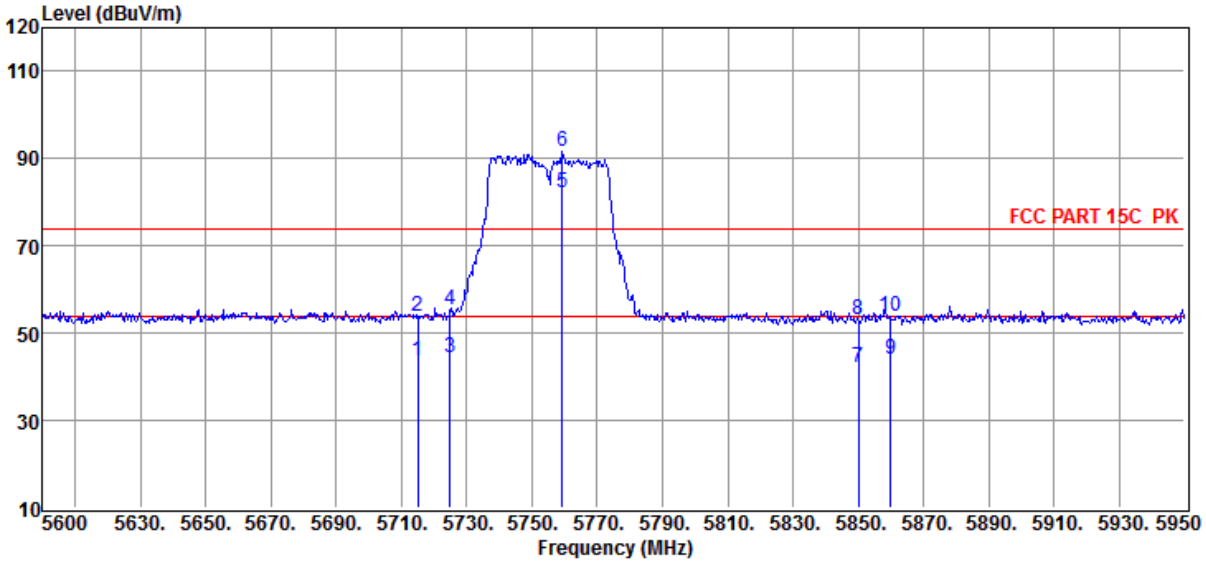
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	54.02	35.35	43.59	7.80	53.58	74.00	-20.42	Peak	HORIZONTAL
2	5371.34	42.67	35.37	43.58	7.81	42.27	54.00	-11.73	Average	HORIZONTAL
3	5371.34	55.26	35.37	43.58	7.81	54.86	74.00	-19.14	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11N40 5755MHz		

Data: 91



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.37	35.59	43.37	8.03	43.62	109.4	-65.78	Average	HORIZONTAL
2	5715	53.77	35.59	43.37	8.03	54.02	109.4	-55.38	Peak	HORIZONTAL
3	5725	43.95	35.59	43.37	8.04	44.21	122.2	-77.99	Average	HORIZONTAL
4	5725	55.26	35.59	43.37	8.04	55.52	122.2	-66.68	Peak	HORIZONTAL
5	5759.25	81.97	35.6	43.34	8.06	82.29	125.2	-42.91	Average	HORIZONTAL
6	5759.25	91.21	35.6	43.34	8.06	91.53	125.2	-33.67	Peak	HORIZONTAL
7	5850	41.64	35.64	43.29	8.12	42.11	122.2	-80.09	Average	HORIZONTAL
8	5850	52.78	35.64	43.29	8.12	53.25	122.2	-68.95	Peak	HORIZONTAL
9	5860	43.58	35.64	43.28	8.12	44.06	109.4	-65.34	Average	HORIZONTAL
10	5860	53.32	35.64	43.28	8.12	53.80	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

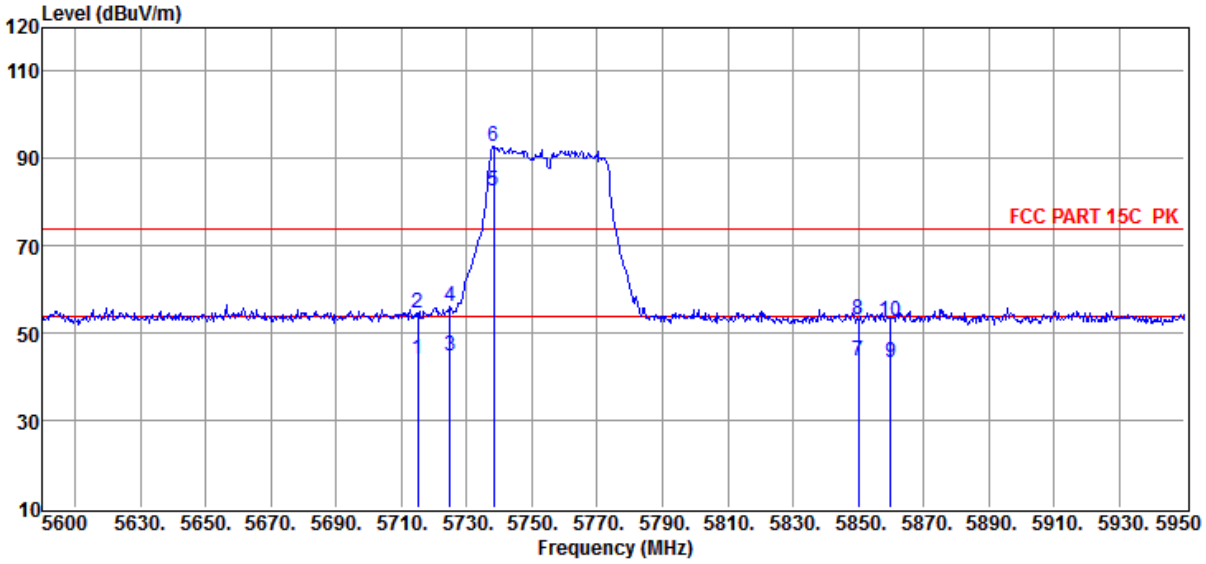
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11N40 5755MHz		

Data: 92



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.76	35.59	43.37	8.03	44.01	109.4	-65.39	Average	VERTICAL
2	5715	54.54	35.59	43.37	8.03	54.79	109.4	-54.61	Peak	VERTICAL
3	5725	44.68	35.59	43.37	8.04	44.94	122.2	-77.26	Average	VERTICAL
4	5725	55.73	35.59	43.37	8.04	55.99	122.2	-66.21	Peak	VERTICAL
5	5738.25	82.3	35.6	43.36	8.05	82.59	125.2	-42.61	Average	VERTICAL
6	5738.25	92.4	35.6	43.36	8.05	92.69	125.2	-32.51	Peak	VERTICAL
7	5850	43.31	35.64	43.29	8.12	43.78	122.2	-78.42	Average	VERTICAL
8	5850	52.75	35.64	43.29	8.12	53.22	122.2	-68.98	Peak	VERTICAL
9	5860	42.76	35.64	43.28	8.12	43.24	109.4	-66.16	Average	VERTICAL
10	5860	52.13	35.64	43.28	8.12	52.61	109.4	-16.36	Peak	VERTICAL

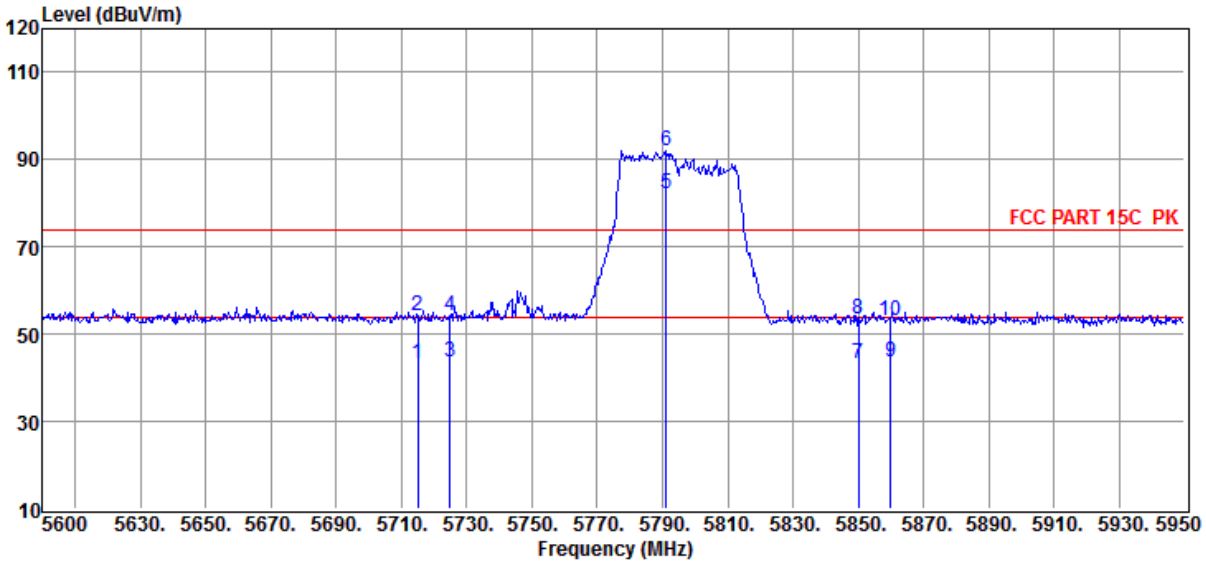
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/VERTICAL
Memo	:	11N40 5795MHz			

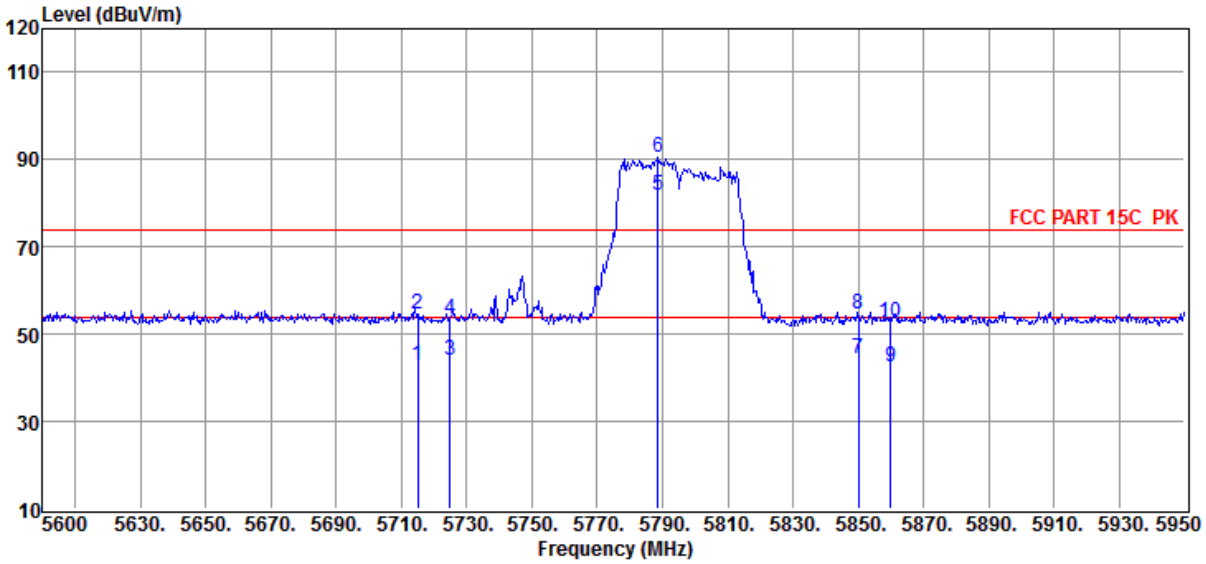


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.18	35.59	43.37	8.03	43.43	109.4	-65.97	Average	VERTICAL
2	5715	53.88	35.59	43.37	8.03	54.13	109.4	-55.27	Peak	VERTICAL
3	5725	43.29	35.59	43.37	8.04	43.55	122.2	-78.65	Average	VERTICAL
4	5725	53.8	35.59	43.37	8.04	54.06	122.2	-68.14	Peak	VERTICAL
5	5791.1	81.69	35.62	43.33	8.08	82.06	125.2	-43.14	Average	VERTICAL
6	5791.1	91.69	35.62	43.33	8.08	92.06	125.2	-33.14	Peak	VERTICAL
7	5850	42.78	35.64	43.29	8.12	43.25	122.2	-78.95	Average	VERTICAL
8	5850	52.88	35.64	43.29	8.12	53.35	122.2	-68.85	Peak	VERTICAL
9	5860	43.17	35.64	43.28	8.12	43.65	109.4	-65.75	Average	VERTICAL
10	5860	52.49	35.64	43.28	8.12	52.97	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11N40 5795MHz			



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.64	35.59	43.37	8.03	42.89	109.4	-66.51	Average	HORIZONTAL
2	5715	54.4	35.59	43.37	8.03	54.65	109.4	-54.75	Peak	HORIZONTAL
3	5725	43.85	35.59	43.37	8.04	44.11	122.2	-78.09	Average	HORIZONTAL
4	5725	53.15	35.59	43.37	8.04	53.41	122.2	-68.79	Peak	HORIZONTAL
5	5788.65	81.33	35.62	43.33	8.08	81.70	125.2	-43.50	Average	HORIZONTAL
6	5788.65	90.3	35.62	43.33	8.08	90.67	125.2	-34.53	Peak	HORIZONTAL
7	5850	43.77	35.64	43.29	8.12	44.24	122.2	-77.96	Average	HORIZONTAL
8	5850	54.16	35.64	43.29	8.12	54.63	122.2	-67.57	Peak	HORIZONTAL
9	5860	42.18	35.64	43.28	8.12	42.66	109.4	-66.74	Average	HORIZONTAL
10	5860	52.1	35.64	43.28	8.12	52.58	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

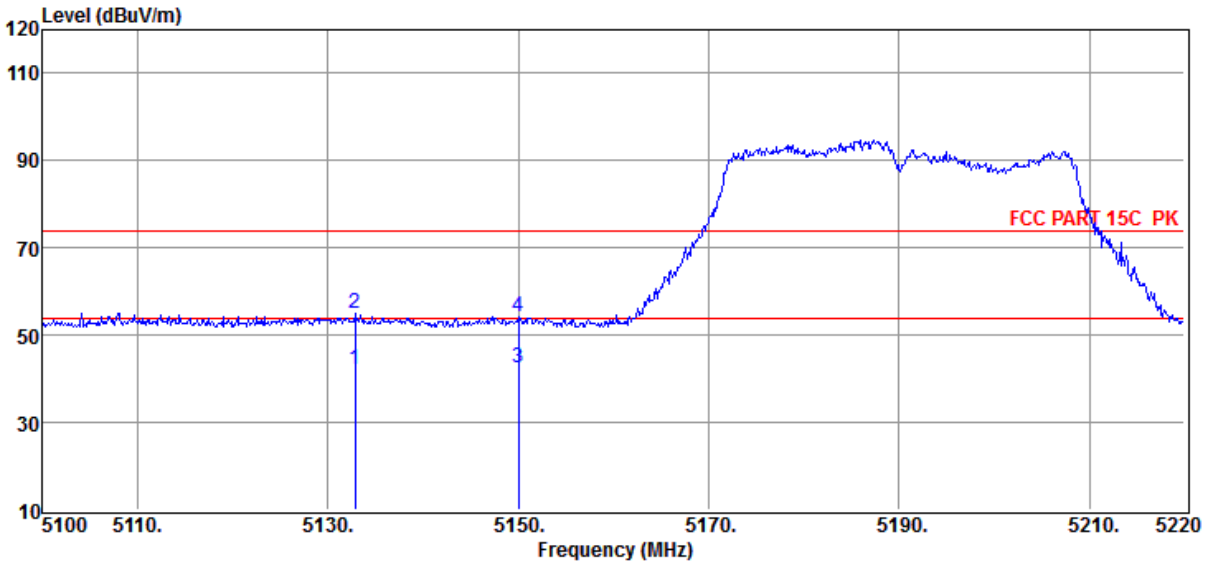
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11AC40 5190MHz		

Data: 95



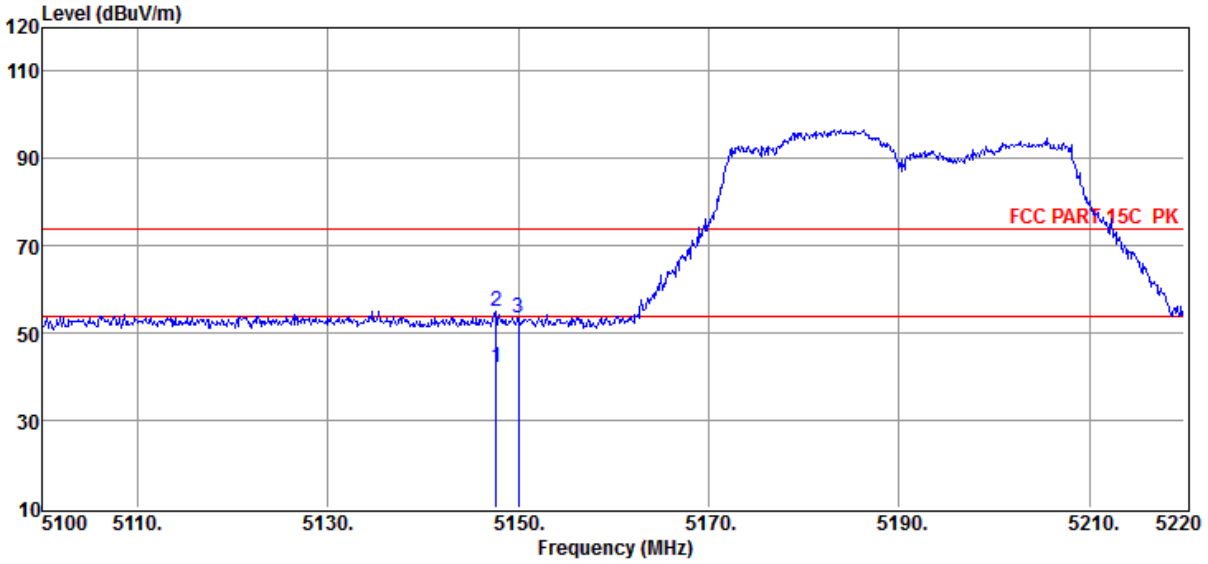
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5132.88	43.13	35.13	43.72	7.66	42.20	54.00	-11.80	Average	HORIZONTAL
2	5132.88	55.86	35.13	43.72	7.66	54.93	74.00	-19.07	Peak	HORIZONTAL
3	5150.00	43.37	35.15	43.71	7.67	42.48	54.00	-11.52	Average	HORIZONTAL
4	5150.00	55.12	35.15	43.71	7.67	54.23	74.00	-19.77	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC40 5190MHz		

Data: 96



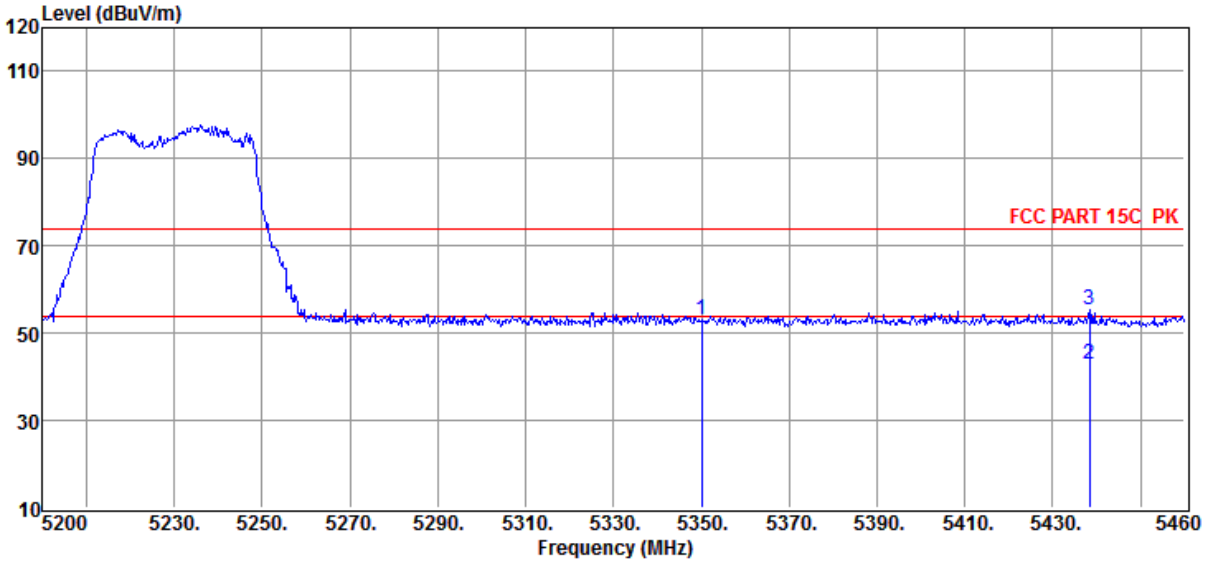
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5147.64	43.12	35.15	43.71	7.67	42.23	54.00	-11.77	Average	VERTICAL
2	5147.64	55.83	35.15	43.71	7.67	54.94	74.00	-19.06	Peak	VERTICAL
3	5150.00	54.34	35.15	43.71	7.67	53.45	74.00	-20.55	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC40 5230MHz		

Data: 97



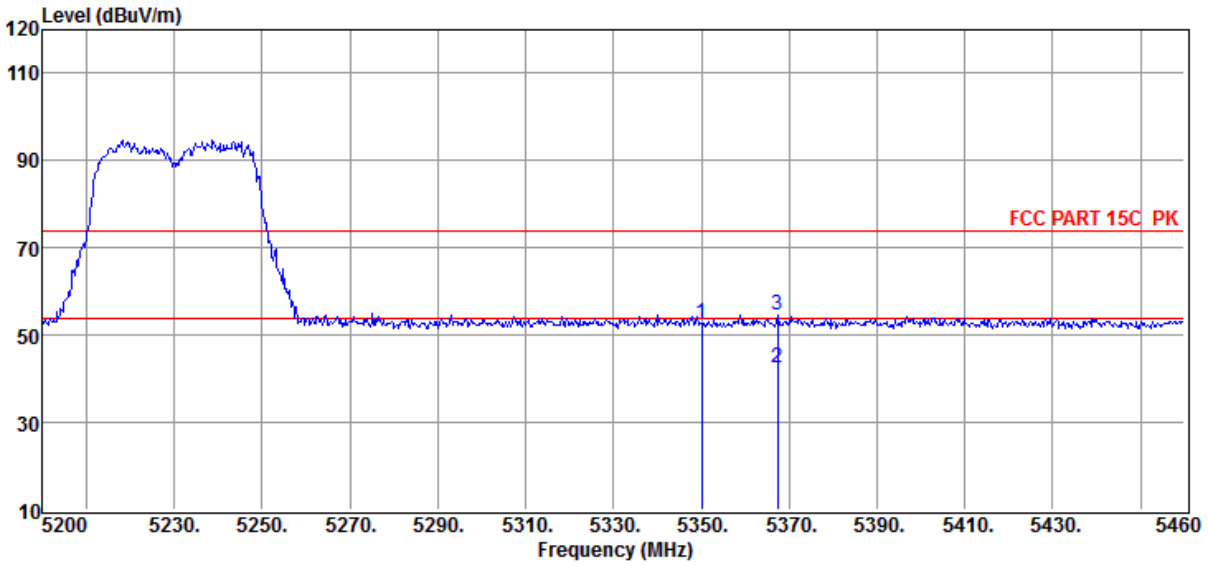
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	53.58	35.35	43.59	7.80	53.14	74.00	-20.86	Peak	VERTICAL
2	5438.42	43.21	35.44	43.54	7.86	42.97	54.00	-11.03	Average	VERTICAL
3	5438.42	55.71	35.44	43.54	7.86	55.47	74.00	-18.53	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/HORIZONTAL
Memo	: 11AC40 5230MHz		

Data: 98

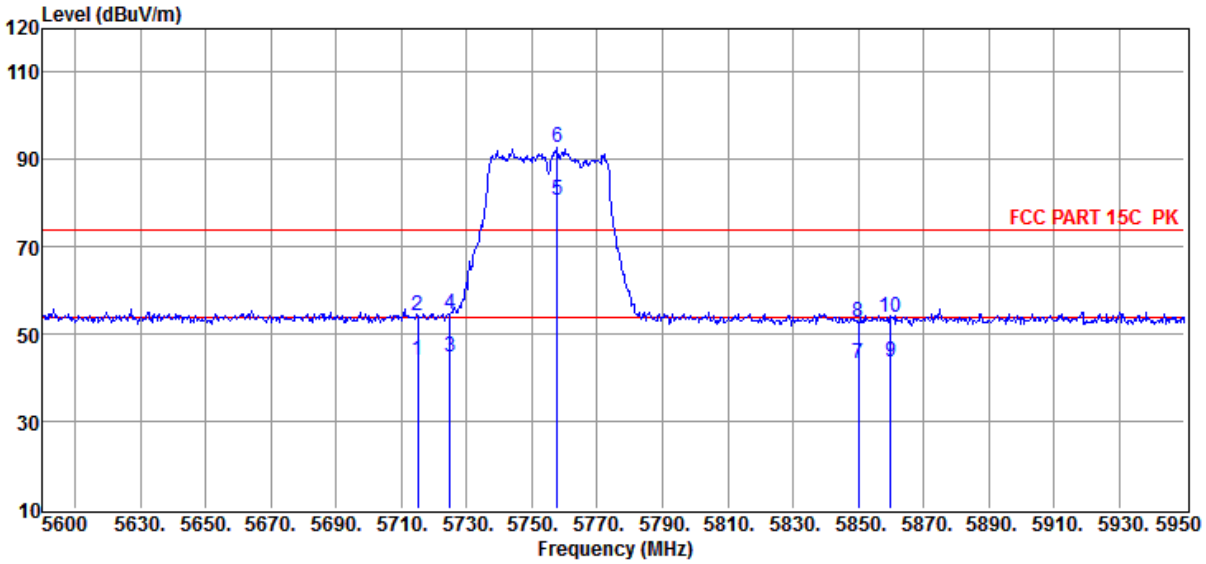


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	53.11	35.35	43.59	7.80	52.67	74.00	-21.33	Peak	HORIZONTAL
2	5367.44	42.74	35.37	43.58	7.81	42.34	54.00	-11.66	Average	HORIZONTAL
3	5367.44	54.97	35.37	43.58	7.81	54.57	74.00	-19.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11AC40 5755MHz			

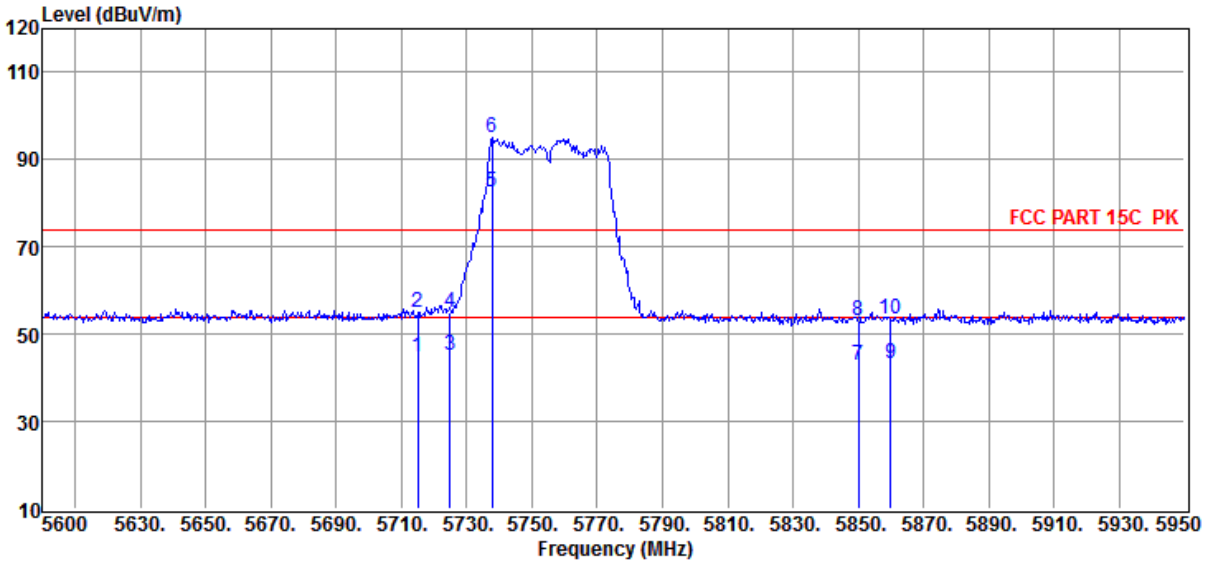


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	43.62	35.59	43.37	8.03	43.87	109.4	-65.53	Average	HORIZONTAL
2	5715	54.08	35.59	43.37	8.03	54.33	109.4	-55.07	Peak	HORIZONTAL
3	5725	44.56	35.59	43.37	8.04	44.82	122.2	-77.38	Average	HORIZONTAL
4	5725	54.52	35.59	43.37	8.04	54.78	122.2	-67.42	Peak	HORIZONTAL
5	5757.85	80.34	35.6	43.35	8.06	80.65	125.2	-44.55	Average	HORIZONTAL
6	5757.85	92.34	35.6	43.35	8.06	92.65	125.2	-32.55	Peak	HORIZONTAL
7	5850	42.67	35.64	43.29	8.12	43.14	122.2	-79.06	Average	HORIZONTAL
8	5850	52.25	35.64	43.29	8.12	52.72	122.2	-69.48	Peak	HORIZONTAL
9	5860	43.27	35.64	43.28	8.12	43.75	109.4	-65.65	Average	HORIZONTAL
10	5860	53.49	35.64	43.28	8.12	53.97	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC40 5755MHz		

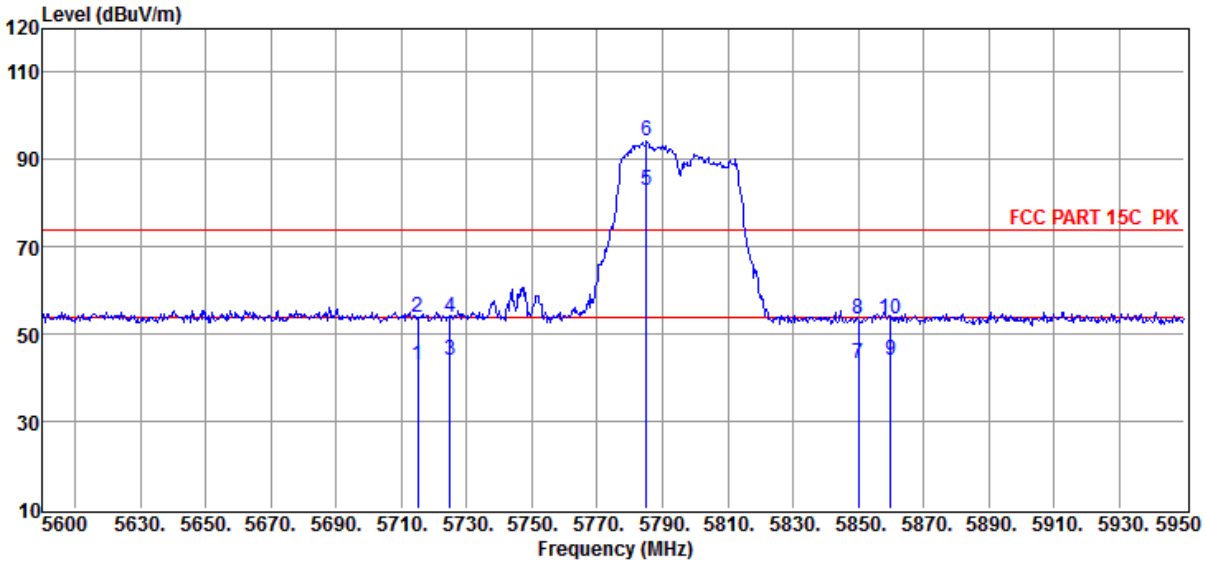


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	44.37	35.59	43.37	8.03	44.62	109.4	-64.78	Average	VERTICAL
2	5715	54.7	35.59	43.37	8.03	54.95	109.4	-54.45	Peak	VERTICAL
3	5725	44.83	35.59	43.37	8.04	45.09	122.2	-77.11	Average	VERTICAL
4	5725	54.69	35.59	43.37	8.04	54.95	122.2	-67.25	Peak	VERTICAL
5	5737.9	82.38	35.6	43.36	8.04	82.66	125.2	-42.54	Average	VERTICAL
6	5737.9	94.68	35.6	43.36	8.04	94.96	125.2	-30.24	Peak	VERTICAL
7	5850	42.39	35.64	43.29	8.12	42.86	122.2	-79.34	Average	VERTICAL
8	5850	52.56	35.64	43.29	8.12	53.03	122.2	-69.17	Peak	VERTICAL
9	5860	42.64	35.64	43.28	8.12	43.12	109.4	-66.28	Average	VERTICAL
10	5860	52.86	35.64	43.28	8.12	53.34	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/VERTICAL
Memo	:	11AC40 5795MHz			



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.68	35.59	43.37	8.03	42.93	109.4	-66.47	Average	VERTICAL
2	5715	53.67	35.59	43.37	8.03	53.92	109.4	-55.48	Peak	VERTICAL
3	5725	43.64	35.59	43.37	8.04	43.90	122.2	-78.30	Average	VERTICAL
4	5725	53.72	35.59	43.37	8.04	53.98	122.2	-68.22	Peak	VERTICAL
5	5785.15	82.43	35.61	43.33	8.07	82.78	125.2	-42.42	Average	VERTICAL
6	5785.15	93.85	35.61	43.33	8.07	94.20	125.2	-31.00	Peak	VERTICAL
7	5850	42.69	35.64	43.29	8.12	43.16	122.2	-79.04	Average	VERTICAL
8	5850	52.92	35.64	43.29	8.12	53.39	122.2	-68.81	Peak	VERTICAL
9	5860	43.39	35.64	43.28	8.12	43.87	109.4	-65.53	Average	VERTICAL
10	5860	52.9	35.64	43.28	8.12	53.38	109.4	-16.36	Peak	VERTICAL

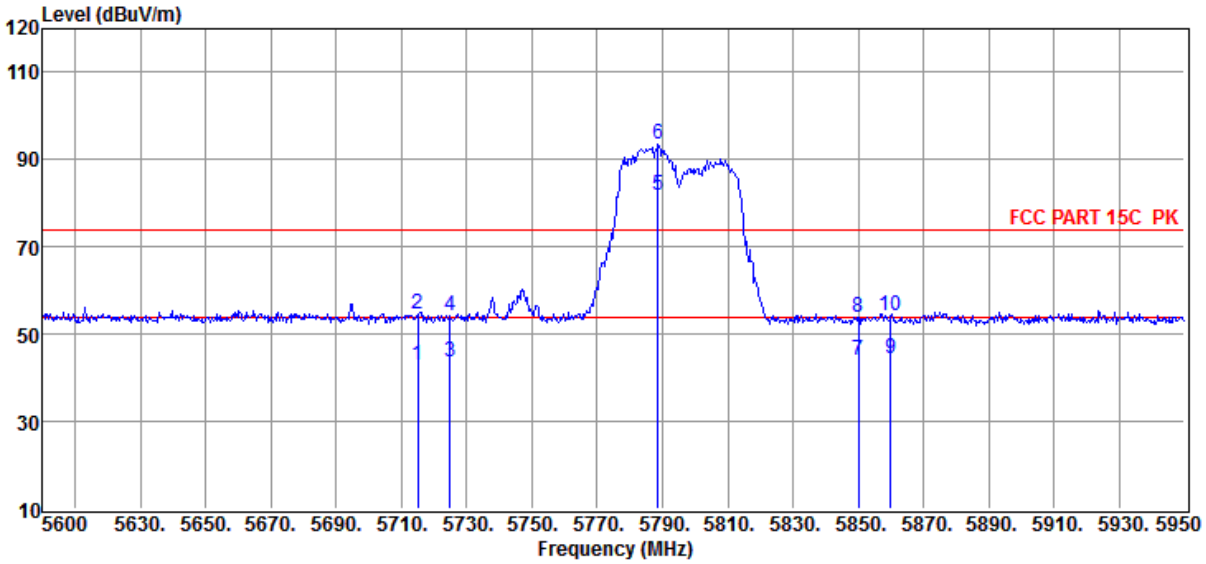
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11AC40 5795MHz			



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	42.69	35.59	43.37	8.03	42.94	109.4	-66.46	Average	HORIZONTAL
2	5715	54.31	35.59	43.37	8.03	54.56	109.4	-54.84	Peak	HORIZONTAL
3	5725	43.47	35.59	43.37	8.04	43.73	122.2	-78.47	Average	HORIZONTAL
4	5725	54.1	35.59	43.37	8.04	54.36	122.2	-67.84	Peak	HORIZONTAL
5	5788.65	81.37	35.62	43.33	8.08	81.74	125.2	-43.46	Average	HORIZONTAL
6	5788.65	93.02	35.62	43.33	8.08	93.39	125.2	-31.81	Peak	HORIZONTAL
7	5850	43.61	35.64	43.29	8.12	44.08	122.2	-78.12	Average	HORIZONTAL
8	5850	53.31	35.64	43.29	8.12	53.78	122.2	-68.42	Peak	HORIZONTAL
9	5860	43.82	35.64	43.28	8.12	44.30	109.4	-65.10	Average	HORIZONTAL
10	5860	53.64	35.64	43.28	8.12	54.12	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

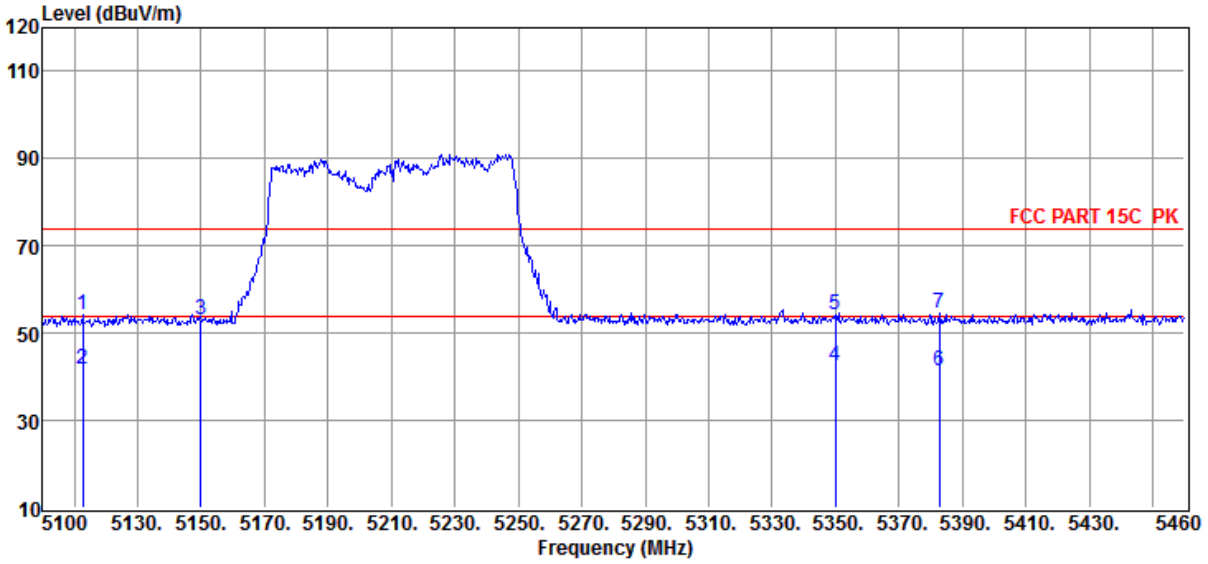
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11AC80 5210MHz			

Data: 103



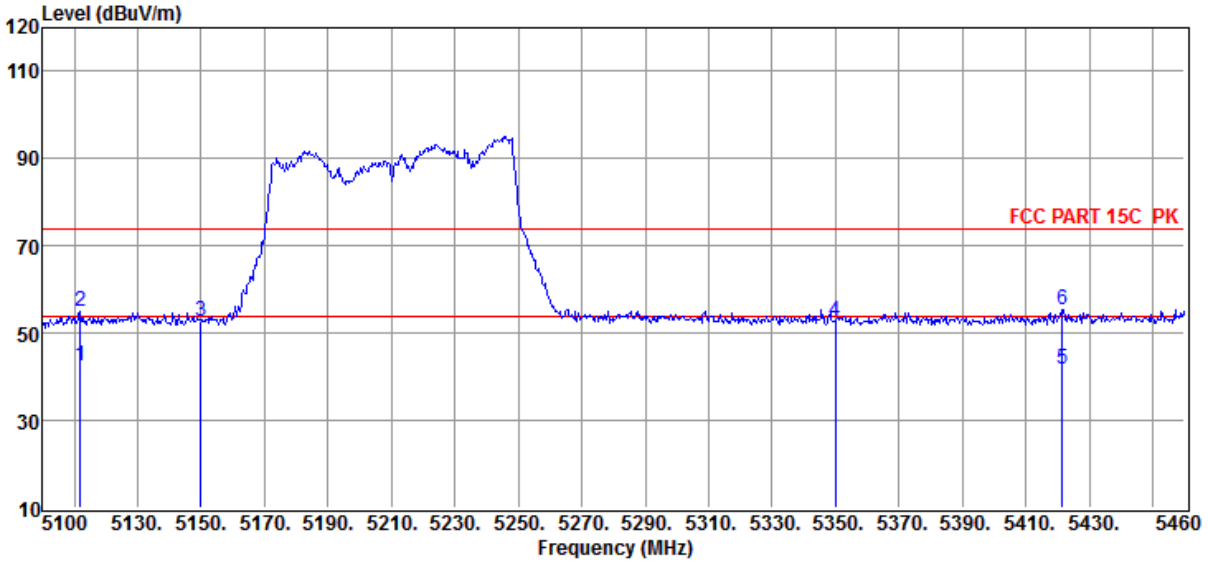
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5112.60	55.21	35.11	43.73	7.65	54.24	74.00	-19.76	Peak	HORIZONTAL
2	5112.60	42.62	35.11	43.73	7.65	41.65	74.00	-32.35	Peak	HORIZONTAL
3	5150.00	54.17	35.15	43.71	7.67	53.28	74.00	-20.72	Peak	HORIZONTAL
4	5350.00	42.76	35.35	43.59	7.80	42.32	54.00	-11.68	Average	HORIZONTAL
5	5350.00	54.50	35.35	43.59	7.80	54.06	74.00	-19.94	Peak	HORIZONTAL
6	5382.60	41.67	35.38	43.57	7.82	41.30	54.00	-12.70	Average	HORIZONTAL
7	5382.60	54.97	35.38	43.57	7.82	54.60	74.00	-19.40	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC80 5210MHz		

Data: 104



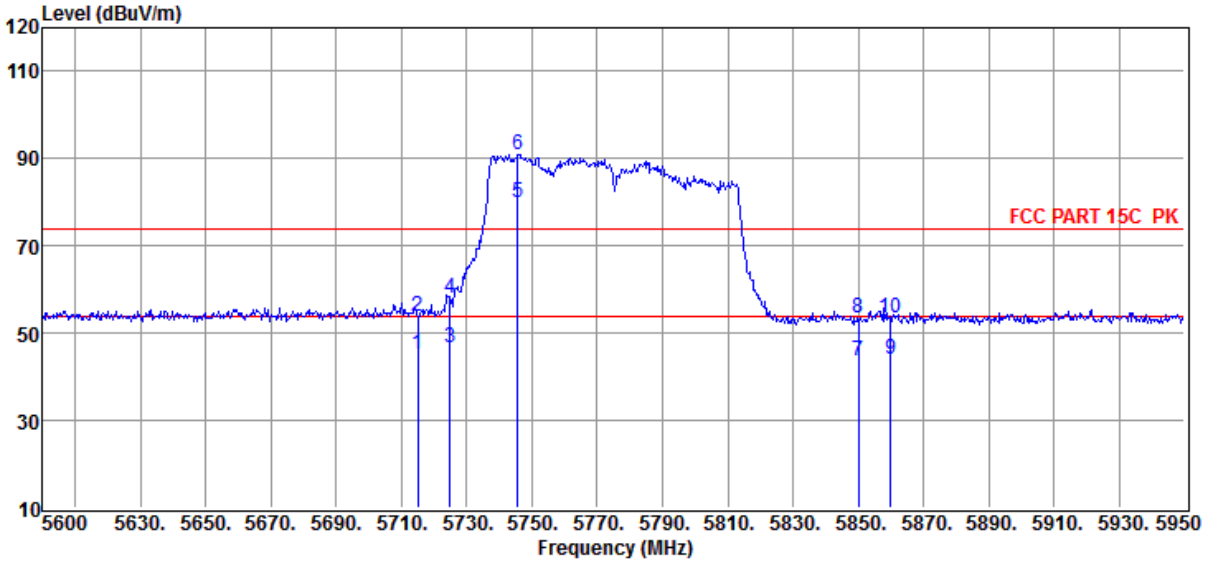
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5111.88	43.42	35.11	43.73	7.65	42.45	54.00	-11.55	Average	VERTICAL
2	5111.88	55.98	35.11	43.73	7.65	55.01	74.00	-18.99	Peak	VERTICAL
3	5150.00	53.60	35.15	43.71	7.67	52.71	74.00	-21.29	Peak	VERTICAL
4	5350.00	53.05	35.35	43.59	7.80	52.61	74.00	-21.39	Peak	VERTICAL
5	5421.48	42.01	35.42	43.55	7.85	41.73	54.00	-12.27	Average	VERTICAL
6	5421.48	55.69	35.42	43.55	7.85	55.41	74.00	-18.59	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6	
Test Date	: 2018-10-29	**Tested By**	: Talent
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2017 HF907/3m/VERTICAL
Memo	: 11AC80 5725Hz		

Data: 105



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	44.87	35.59	43.37	8.03	45.12	109.4	-64.28	Average	VERTICAL
2	5715	53.77	35.59	43.37	8.03	54.02	109.4	-55.38	Peak	VERTICAL
3	5725	46.23	35.59	43.37	8.04	46.49	122.2	-75.71	Average	VERTICAL
4	5725	57.78	35.59	43.37	8.04	58.04	122.2	-64.16	Peak	VERTICAL
5	5745.6	79.67	35.6	43.35	8.05	79.97	125.2	-45.23	Average	VERTICAL
6	5745.6	90.61	35.6	43.35	8.05	90.91	125.2	-34.29	Peak	VERTICAL
7	5850	43.14	35.64	43.29	8.12	43.61	122.2	-78.59	Average	VERTICAL
8	5850	52.85	35.64	43.29	8.12	53.32	122.2	-68.88	Peak	VERTICAL
9	5860	43.69	35.64	43.28	8.12	44.17	109.4	-65.23	Average	VERTICAL
10	5860	53.12	35.64	43.28	8.12	53.60	109.4	-16.36	Peak	VERTICAL

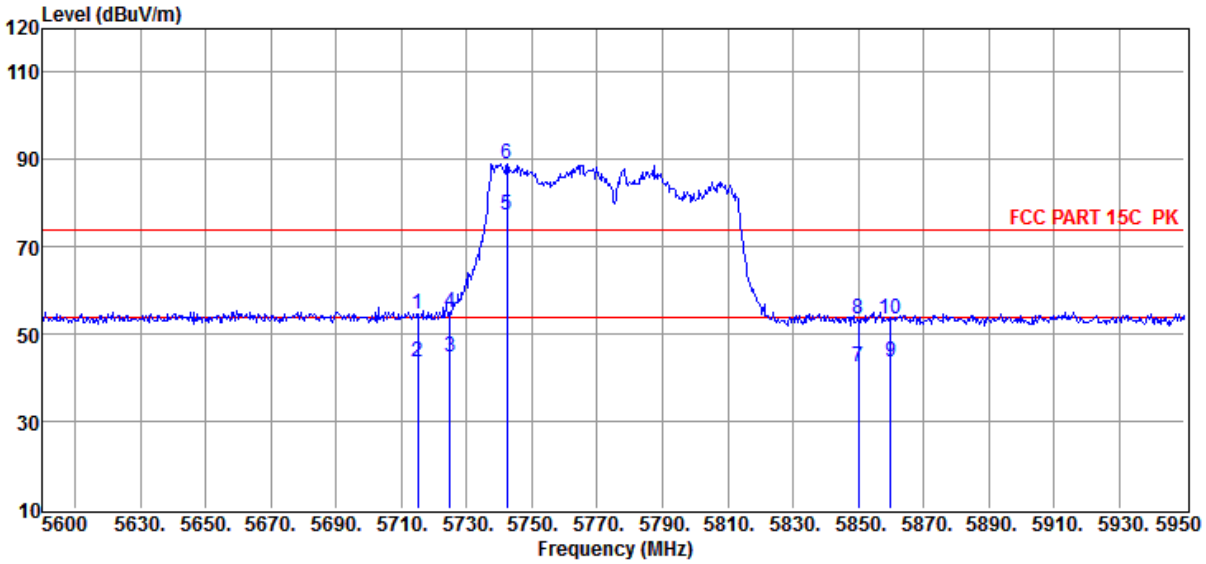
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18101003-1E WALL AP\FCC ABOVE1G.EM6		
Test Date	:	2018-10-29	**Tested By**	:	Talent
EUT	:	Wall AP	**Model Number**	:	WL8200-WH2
Power Supply	:	DC 48V	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5'C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2017 HF907/3m/HORIZONTAL
Memo	:	11AC80 5725Hz			

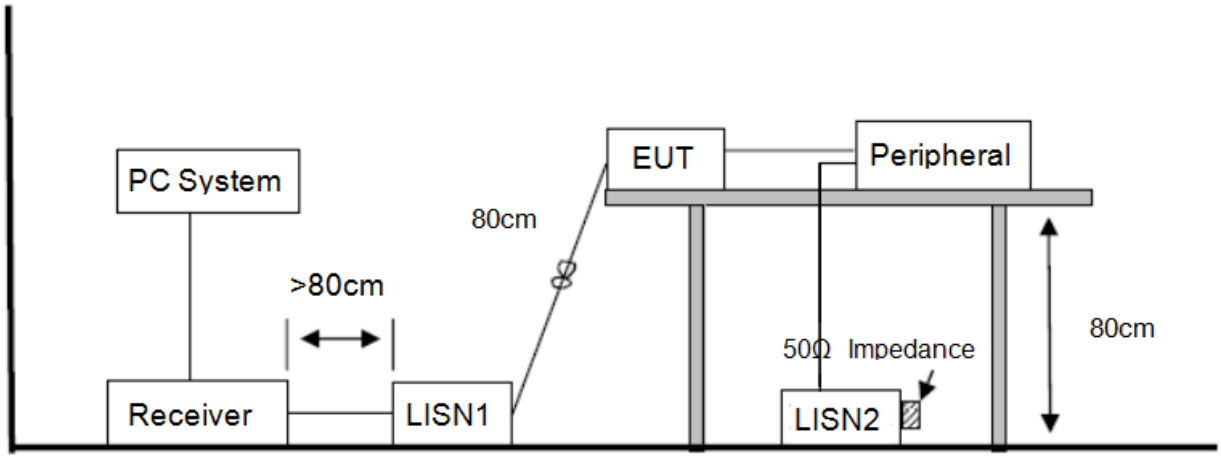


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5715	54.26	35.59	43.37	8.03	54.51	109.4	-54.89	Peak	HORIZONTAL
2	5715	43.24	35.59	43.37	8.03	43.49	109.4	-65.91	Peak	HORIZONTAL
3	5725	44.69	35.59	43.37	8.04	44.95	122.2	-77.25	Average	HORIZONTAL
4	5725	54.54	35.59	43.37	8.04	54.80	122.2	-67.40	Peak	HORIZONTAL
5	5742.45	76.97	35.6	43.35	8.05	77.27	125.2	-47.93	Average	HORIZONTAL
6	5742.45	88.57	35.6	43.35	8.05	88.87	125.2	-36.33	Peak	HORIZONTAL
7	5850	42.02	35.64	43.29	8.12	42.49	122.2	-79.71	Average	HORIZONTAL
8	5850	53.03	35.64	43.29	8.12	53.50	122.2	-68.70	Peak	HORIZONTAL
9	5860	43.33	35.64	43.28	8.12	43.81	109.4	-65.59	Average	HORIZONTAL
10	5860	52.82	35.64	43.28	8.12	53.30	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

10. Power Line Conducted Emission

10.1. Block diagram of test setup



10.2. Power Line Conducted Emission Limits(Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

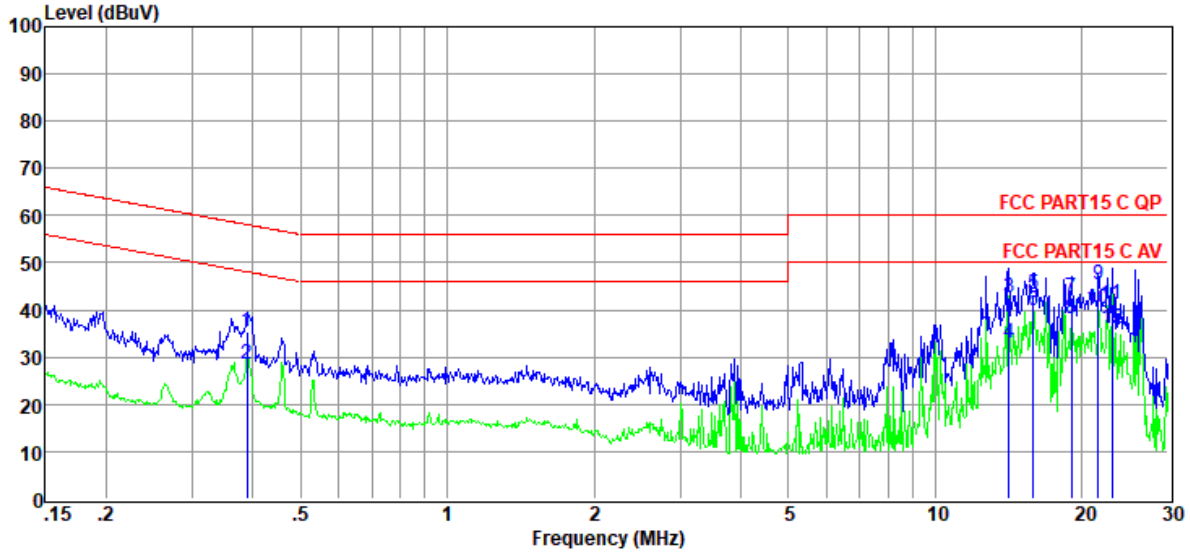
10.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.
Note2: "-----" means Peak detection; "-----" means Average detection.
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worse case (AC 120V/60Hz).

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2018 CE report data\Q18101003-1E\CE.EM6	
Test Date	: 2018-12-24	**Tested By**	: Open
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V from AC Adapter	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**LISN**	: 2018 ENV216/NEUTRAL
Memo	:		



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.39	15.84	9.64	0.02	9.86	35.36	58.08	-22.72	QP	NEUTRAL
2	0.39	9.03	9.64	0.02	9.86	28.55	48.08	-19.53	Average	NEUTRAL
3	14.14	22.20	10.25	0.06	9.93	42.44	60.00	-17.56	QP	NEUTRAL
4	14.14	12.87	10.25	0.06	9.93	33.11	50.00	-16.89	Average	NEUTRAL
5	15.89	23.24	10.25	0.05	9.93	43.47	60.00	-16.53	QP	NEUTRAL
6	15.89	19.54	10.25	0.05	9.93	39.77	50.00	-10.23	Average	NEUTRAL
7	19.02	22.68	10.03	0.07	9.95	42.73	60.00	-17.27	QP	NEUTRAL
8	19.02	18.06	10.03	0.07	9.95	38.11	50.00	-11.89	Average	NEUTRAL
9	21.60	25.25	10.02	0.08	9.96	45.31	60.00	-14.69	QP	NEUTRAL
10	21.60	20.30	10.02	0.08	9.96	40.36	50.00	-9.64	Average	NEUTRAL
11	23.02	20.96	10.06	0.09	9.97	41.08	60.00	-18.92	QP	NEUTRAL
12	23.02	15.84	10.06	0.09	9.97	35.96	50.00	-14.04	Average	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

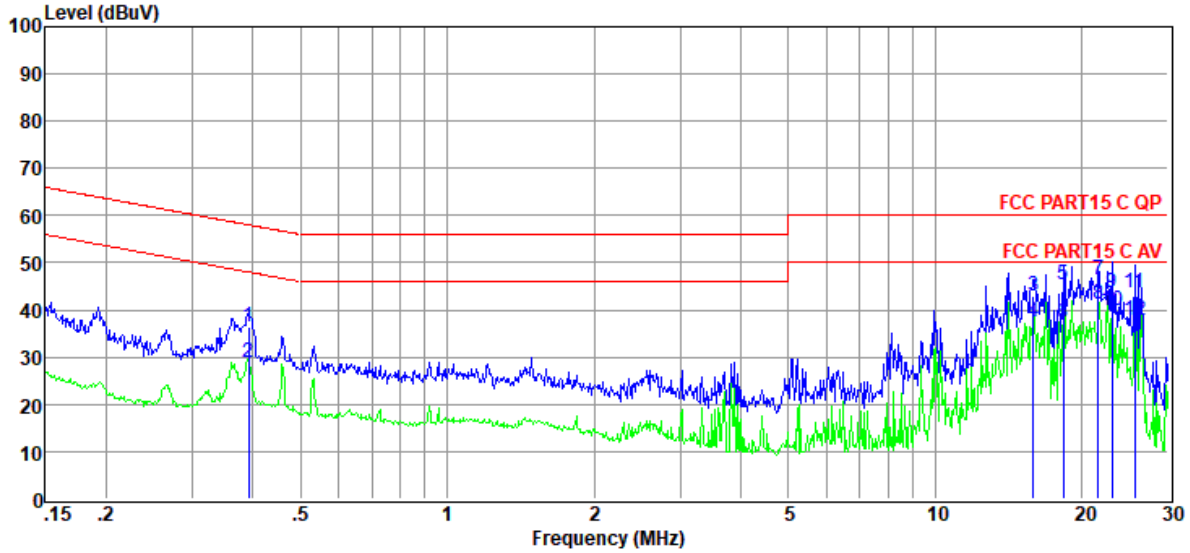
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2018 CE report data\Q18101003-1E\CE.EM6	
Test Date	: 2018-12-24	**Tested By**	: Open
EUT	: Wall AP	**Model Number**	: WL8200-WH2
Power Supply	: DC 48V from AC Adapter	**Test Mode**	: Tx mode
Condition	: Temp:24.5'C,Humi:55%,Press:100.1kPa	**LISN**	: 2018 ENV216/LINE
Memo	:		



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.39	16.92	9.64	0.02	9.86	36.44	58.03	-21.59	QP	LINE
2	0.39	9.33	9.64	0.02	9.86	28.85	48.03	-19.18	Average	LINE
3	15.89	22.79	10.16	0.05	9.93	42.93	60.00	-17.07	QP	LINE
4	15.89	17.45	10.16	0.05	9.93	37.59	50.00	-12.41	Average	LINE
5	18.33	25.31	10.02	0.06	9.94	45.33	60.00	-14.67	QP	LINE
6	18.33	16.95	10.02	0.06	9.94	36.97	50.00	-13.03	Average	LINE
7	21.60	26.36	9.95	0.08	9.96	46.35	60.00	-13.65	QP	LINE
8	21.60	21.28	9.95	0.08	9.96	41.27	50.00	-8.73	Average	LINE
9	23.02	23.71	9.96	0.09	9.97	43.73	60.00	-16.27	QP	LINE
10	23.02	19.86	9.96	0.09	9.97	39.88	50.00	-10.12	Average	LINE
11	25.59	23.67	9.98	0.14	9.99	43.78	60.00	-16.22	QP	LINE
12	25.59	17.84	9.98	0.14	9.99	37.95	50.00	-12.05	Average	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The antennas used for this product are integrated antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3 dBi.

END OF REPORT