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Report Template Version: V06
Report Template Revision Date: 2026-01-30

Test Report

Report No.: CQASZ20251102752E-04
Applicant: Icarsoft Technology Inc.
Address of Applicant: 1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Equipment Under Test (EUT):
Product: Car Diagnostic Tool, PROFESSIONAL MULTI-SYSTEM CAR DIAGNOSTIC TOOL
Model No.: CR Eagle, CR Eagle P
Test Model No.: CR Eagle
Brand Name: **iCarsoft**
FCC ID: 2AWD8-CREAGLE
Standards: 47 CFR Part 15, Subpart E
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Date of Receipt: 2025-11-27
Date of Test: 2024-08-19 to 2024-09-06
2025-11-27 to 2025-12-9
Date of Issue: 2026-4-2
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above.

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20240801757E-04	Rev.01	Initial report	2024-09-29
CQASZ20251102752E-04	Rev.02	Update report	2026-4-2

Note:

This test report (Ref. No.: CQASZ20251102752E-04)

All test data comes from source test reports (Ref. No.: CQASZ20240801757E-04).

Because the internal battery structure has changed, the screen wiring has been replaced, and the PCB board has also been modified, so difference test was added, Add Radiated Emission data, Conducted emission data, product photos. These changes do not affect RF performance.

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10:2020; KDB789033	N/A
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.207	ANSI C63.10:2020; KDB789033	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.407 (a)	ANSI C63.10:2020; KDB789033	PASS
Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.407 (a)(e)	ANSI C63.10:2020; KDB789033	N/A
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	ANSI C63.10:2020; KDB789033	N/A
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.209 & 15.407(b)	ANSI C63.10:2020; KDB789033	N/A
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10:2020; KDB789033	N/A
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	PASS
Radiated Spurious Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	ANSI C63.10:2020; KDB789033	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

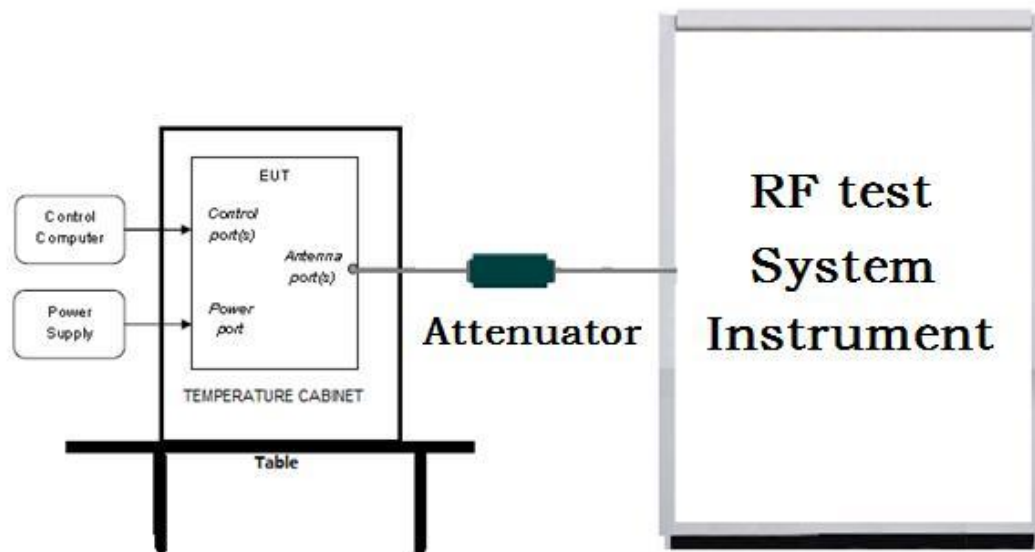
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4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

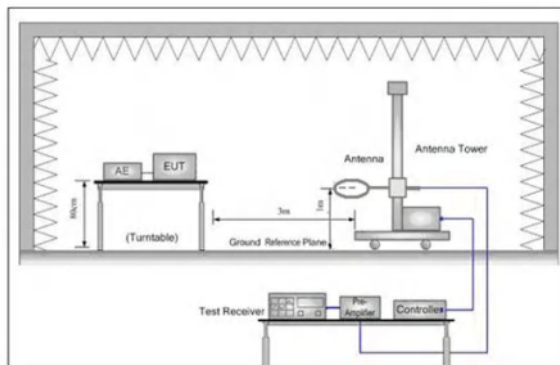


Figure 1. Below 30MHz

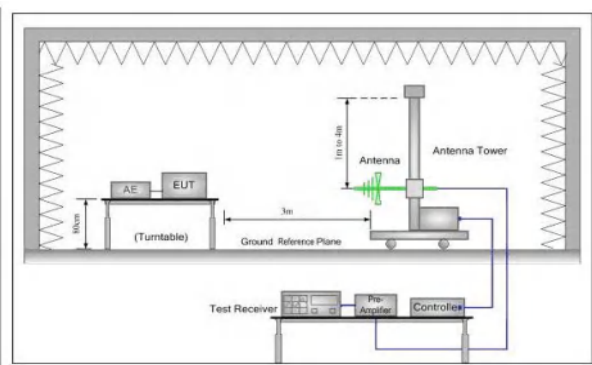


Figure 2. 30MHz to 1GHz

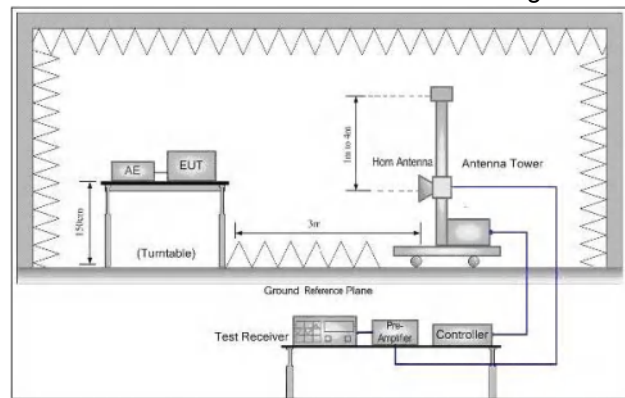
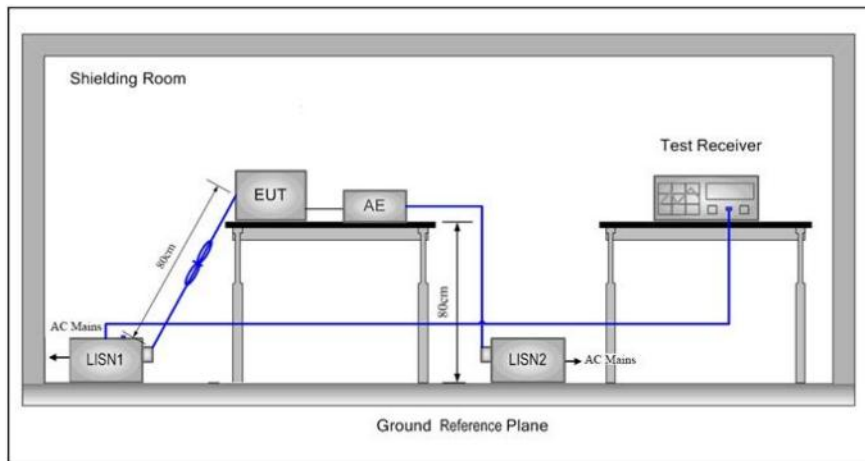


Figure 3. Above 1GHz

4.1.3 For Conducted Emissions test setup

Conducted Emissions setup



4.2 Test Environment

Operating Environment:		
Conducted Emissions:		
Temperature:	25.6 °C	
Humidity:	60 % RH	
Atmospheric Pressure:	1009 mbar	
Radiated Emissions:		
Temperature:	25.5 °C	
Humidity:	54 % RH	
Atmospheric Pressure:	1009mbar	
Radio conducted item test (RF Conducted test room):		
Temperature:	25.3 °C	
Humidity:	50 % RH	
Atmospheric Pressure:	1009 mbar	
Test Condition	Temperature (°C)	Voltage (V)
TN/VN	+15 to +35	3.8
TL/VL	0	3.42
TH/VL	50	3.42
TL/VH	0	4.18
TH/VH	50	4.18

Remark:

1)The EUT just work in such extreme temperature of 0 °C to 50 °C and the extreme voltage of 3.42V to 4.18V, so here the EUT is tested in the temperature of 0 °C to 50 °C and the voltage of 3.42V to 4.18V.

2)VN: Normal Voltage; TN: Normal Temperature;

TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;

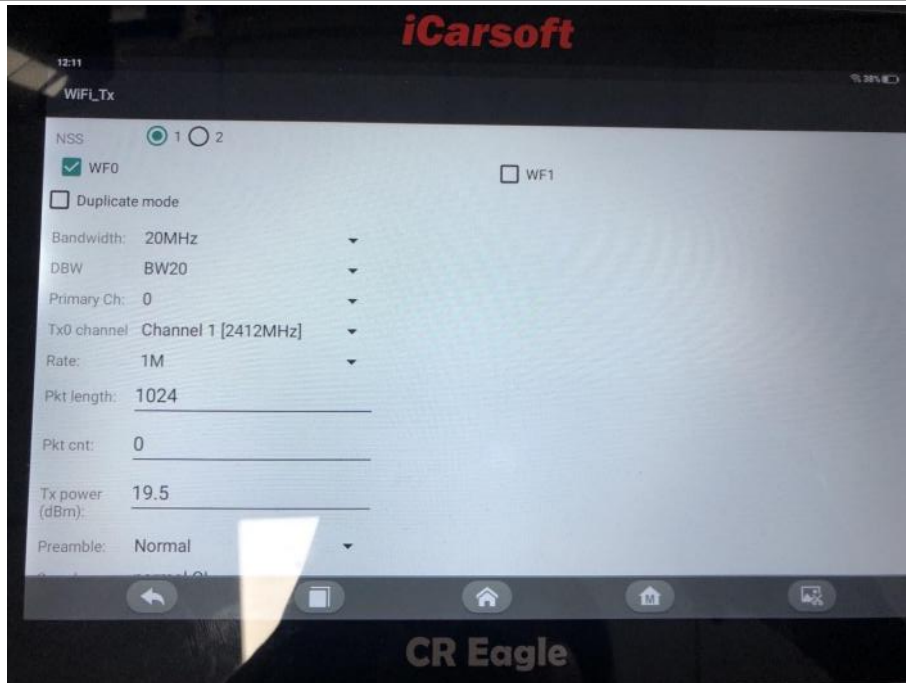
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac(20M)	5725MHz ~5850 MHz	Channel 52	Channel 56	Channel 64
		5260MHz	5280MHz	5320MHz
802.11n/ac(40M)	5725MHz ~5850 MHz	Channel 54	N/A	Channel 62
		5270MHz	N/A	5310MHz
802.11ac(80M)	5725MHz ~5850 MHz	N/A	Channel 58	N/A
		N/A	5290MHz	N/A
802.11a/n/ac(20M)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac(40M)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11ac(80M)	5725MHz ~5850 MHz	N/A	Channel 155	N/A
		N/A	5775MHz	N/A

Run Software:



Test mode:

Pre-scan under all rate at lowest channel for Ant1

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M); MCS0 is the worst case of 802.11n (20M); MCS0 is the worst case of 802.11ac (20M); MCS0 is the worst case of 802.11n(40M); MCS0 is the worst case of 802.11ac (40M); MCS0 is the worst case of 802.11ac(80M).

5 General Information

5.1 Client Information

Applicant:	Icarsoft Technology Inc.
Address of Applicant:	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Manufacturer:	Icarsoft Technology Inc.
Address of Manufacturer:	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Factory:	Dongguan Yongdong Electronic Technology Co., Ltd
Address of Factory:	No. 10,4th Street, Zhangyang Fuzhu Industrial Zone,Zhangmutou town, Dongguan City

5.2 General Description of EUT

Product Name:	Car Diagnostic Tool, PROFESSIONAL MULTI-SYSTEM CAR DIAGNOSTIC TOOL
Model No.:	CR Eagle, CR Eagle P
Test Model No.:	CR Eagle
Trade Mark:	iCarsoft
Software Version:	iMsDiag DiagLib APP:V10.14 iMSDiag System APP:V10.19 System Version:V1.26
Hardware Version:	F219 U1.1
EUT Power Supply:	Li-ion battery: DC 3.8V 10000mAh, Charge by DC 5V for adapter
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz; 802.11n(HT40): 2422MHz~2452MHz 5GHz: Wi-Fi: U-NII-1: 5.15-5.25GHz; U-NII-2A: 5.25-5.35GHz U-NII-3: 5.725-5.850GHz
EUT Type:	Client devices

5.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz IEEE802.11ac(80M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz IEEE802.11n/ac(40M): 5250MHz ~5350 MHz IEEE802.11ac(80M): 5250MHz ~5350 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 5725MHz ~5850 MHz IEEE802.11ac(80M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz/ 4 channel IEEE802.11n/ac(40M): 5250MHz ~5350 MHz/ 2 channel IEEE802.11ac(80M): 5250MHz ~5350 MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel
Type of Modulation:	OFDM
Sample Type:	☐ Mobile ☒ Portable
Test Software of EUT:	RF Test
Antenna Type:	FPC antenna
Antenna gain:	4.02dBi@5GHz: Wi-Fi: U-NII-1, 3.26dBi@5GHz: Wi-Fi: U-NII-2A, 3.08dBi@5GHz: Wi-Fi: U-NII-3
Cable loss:	1.0 dB

Operation Frequency each of channel

For 802.11a/n/ac(20M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz
For 802.11a/n/ac(20M) Operation in the 5250MHz ~5350 MHz band			
Channel	Frequency	Channel	Frequency
52	5260MHz	56	5280MHz
60	5300MHz	64	5320MHz
For 802.11a/n/ac(20M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz	NA	NA

For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11n/ac(40M) Operation in the 5250MHz ~5350 MHz band			
Channel	Frequency	Channel	Frequency
54	5270MHz	62	5310MHz
For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	NA	NA
42	5210MHz	NA	NA
For 802.11ac(80M) Operation in the 5250MHz ~5350 MHz band			
Channel	Frequency	NA	NA
58	5290MHz	NA	NA
For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	NA	NA
155	5775MHz	NA	NA

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	Mi	/	/	CQA

5.5 Test Location

All tests were performed at:

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community,
Dalang Street, Longhua District, Shenzhen, Guangdong,
People's Republic of China, 518000

5.6 Test Facility

• A2LA (Certificate No. 4742.01)

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	3×10^{-8}
2	RF power, conducted	0.86dB
3	Radiated Spurious emission test	5.12dB (Below 1GHz)
		4.6dB (Above 1GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.8°C
6	Humidity test	2.0%
7	DC power voltages	0.5%

6 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Power meter	R&S	NRVD	CQA-029	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
LISN	R&S	ENV216	CQA-003	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07

				2024/09/02 2025/9/1	2025/09/01 2026/8/31
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08 2024/09/02 2025/9/1	2024/09/07 2025/09/01 2026/8/31

Test software:

	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3

Appendix F): Antenna Requirement

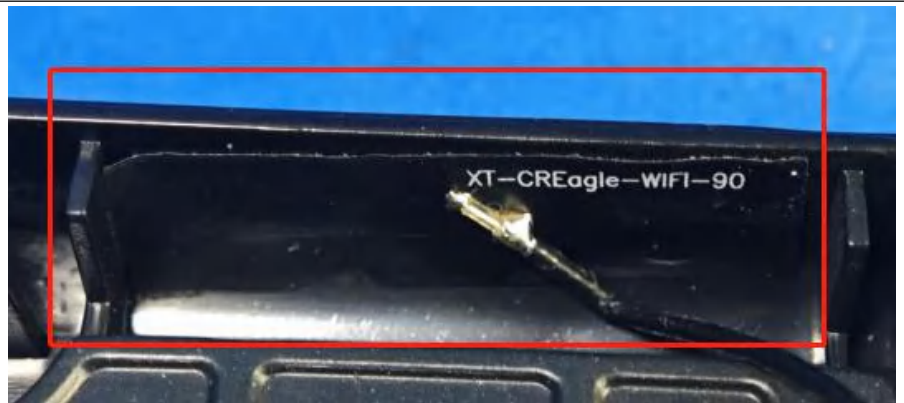
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



Appendix G): Operation in the absence of information to the transmit**15.407(c) requirement:**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)

Appendix H): AC Power Line Conducted Emission

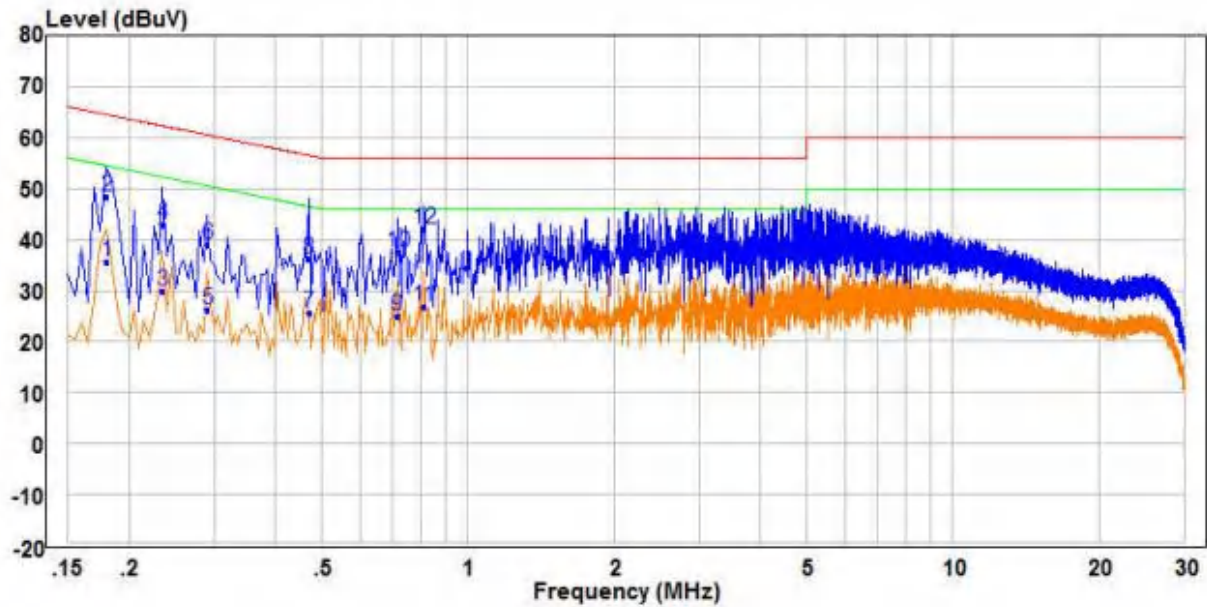
Test Procedure:	Test frequency range :150KHz-30MHz 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.															
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr> <tr> <th>Quasi-peak</th><th>Average</th></tr> </thead> <tbody> <tr> <td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr> <tr> <td>0.5-5</td><td>56</td><td>46</td></tr> <tr> <td>5-30</td><td>60</td><td>50</td></tr> </tbody> </table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency		Frequency range (MHz)	Limit (dB μ V)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dB μ V)															
	Quasi-peak	Average														
0.15-0.5	66 to 56*	56 to 46*														
0.5-5	56	46														
5-30	60	50														

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

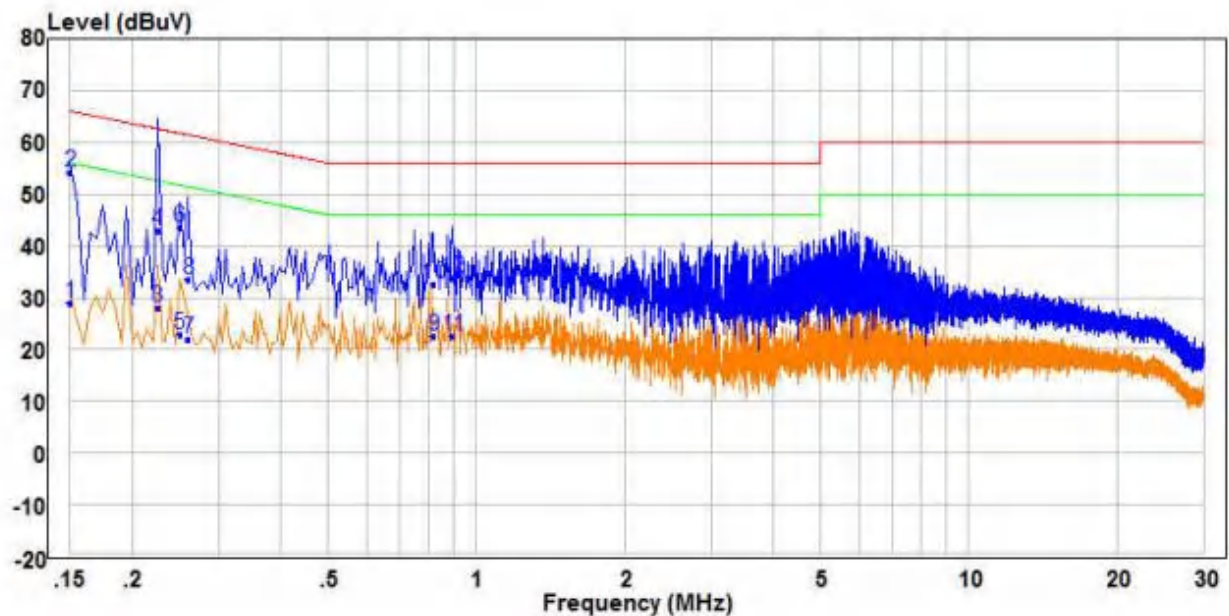
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	AV	0.180	25.99	9.64	35.63	54.49	-18.86	Average	Line
2		0.180	38.86	9.64	48.50	64.49	-15.99	QP	Line
3		0.235	20.38	9.56	29.94	52.27	-22.33	Average	Line
4		0.235	33.38	9.56	42.94	62.27	-19.33	QP	Line
5		0.290	16.58	9.50	26.08	50.52	-24.44	Average	Line
6		0.290	29.49	9.50	38.99	60.52	-21.53	QP	Line
7		0.470	16.07	9.67	25.74	46.51	-20.77	Average	Line
8		0.470	26.55	9.67	36.22	56.51	-20.29	QP	Line
9		0.715	15.21	9.89	25.10	46.00	-20.90	Average	Line
10		0.715	27.69	9.89	37.58	56.00	-18.42	QP	Line
11		0.810	17.06	9.83	26.89	46.00	-19.11	Average	Line
12	PP	0.810	32.29	9.83	42.12	56.00	-13.88	QP	Line

Neutral line:



		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	0.150	19.29	9.70	28.99	56.00	-27.01	Average
2	PP	0.150	44.47	9.70	54.17	66.00	-11.83 QP
3	0.225	18.46	9.57	28.03	52.63	-24.60	Average
4	0.225	33.23	9.57	42.80	62.63	-19.83	QP
5	0.250	13.47	9.54	23.01	51.76	-28.75	Average
6	0.250	34.05	9.54	43.59	61.76	-18.17	QP
7	0.260	12.34	9.53	21.87	51.43	-29.56	Average
8	0.260	24.02	9.53	33.55	61.43	-27.88	QP
9	0.820	12.59	9.82	22.41	46.00	-23.59	Average
10	0.820	22.73	9.82	32.55	56.00	-23.45	QP
11	AV	0.895	12.84	9.77	22.61	46.00	-23.39
12	0.895	23.91	9.77	33.68	56.00	-22.32	QP

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. The 6Mbps of rate of 802.11A_5240 is the worst case, only the worst data recorded in the report.

Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	Below 1GHz test procedure as below: - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dB μ V/m @3cm)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	

Test plot as follows:

Worse case mode:		802.11a(6Mbps)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	55.74	-2.21	53.53	74	-20.47	peak	H	1.5	164
5150.00	43.09	-2.21	40.88	54	-13.12	AVG	H	1.5	350
5150.00	48.48	6.63	55.11	74	-18.89	peak	V	1.5	122
5150.00	36.47	6.63	43.10	54	-10.90	AVG	V	1.5	223

Worse case mode:		802.11a(6Mbps)		Test channel:		64			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	55.74	-4.14	51.60	74	-22.40	peak	H	1.5	258
5350.00	43.40	-4.14	39.26	54	-14.74	AVG	H	1.5	24
5350.00	51.77	0.56	52.33	74	-21.67	peak	V	1.5	14
5350.00	37.52	0.56	38.08	54	-15.92	AVG	V	1.5	36

Worse case mode:		802.11a(6Mbps)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5725	56.03	-2.21	53.82	74	-20.18	peak	H	1.5	350
5725	42.38	-2.21	40.17	54	-13.83	AV	H	1.5	139
5725	50.01	6.63	56.64	74	-17.36	peak	V	1.5	306
5725	38.45	6.63	45.08	54	-8.92	AV	V	1.5	224

Worse case mode:		802.11a(6Mbps)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850	57.46	-4.28	53.18	74	-20.82	peak	H	1.5	40
5850	43.60	-4.28	39.32	54	-14.68	AV	H	1.5	323
5850	52.91	1.13	54.04	74	-19.96	peak	V	1.5	336
5850	38.33	1.13	39.46	54	-14.54	AV	V	1.5	106

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	56.41	-2.21	54.20	74	-19.80	peak	H	1.5	343
5150.00	42.04	-2.21	39.83	54	-14.17	AVG	H	1.5	123
5150.00	47.77	6.63	54.40	74	-19.60	peak	V	1.5	168
5150.00	38.35	6.63	44.98	54	-9.02	AVG	V	1.5	286

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		64			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.36	-2.21	56.15	74	-17.85	peak	H	1.5	248
5350.00	43.49	-2.21	41.28	54	-12.72	AVG	H	1.5	327
5350.00	47.81	6.63	54.44	74	-19.56	peak	V	1.5	191
5350.00	36.05	6.63	42.68	54	-11.32	AVG	V	1.5	69

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5725	54.96	-4.14	50.82	74	-23.18	peak	H	1.5	342
5725	42.45	-4.14	38.31	54	-15.69	AV	H	1.5	359
5725	51.33	0.56	51.89	74	-22.11	peak	V	1.5	167
5725	36.15	0.56	36.71	54	-17.29	AV	V	1.5	155

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850	55.67	-2.21	53.46	74	-20.54	peak	H	1.5	272
5850	42.72	-2.21	40.51	54	-13.49	AV	H	1.5	227
5850	50.61	6.63	57.24	74	-16.76	peak	V	1.5	72
5850	38.54	6.63	45.17	54	-8.83	AV	V	1.5	194

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150	58.44	-2.21	56.23	74	-17.77	peak	H	1.5	296
5150	43.04	-2.21	40.83	54	-13.17	AVG	H	1.5	164
5150	48.73	6.63	55.36	74	-18.64	peak	V	1.5	27
5150	38.04	6.63	44.67	54	-9.33	AVG	V	1.5	253

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		62			
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	57.45	-2.21	55.24	74	-18.76	peak	H	1.5	340
5350.00	42.32	-2.21	40.11	54	-13.89	AVG	H	1.5	345
5350.00	48.82	6.63	55.45	74	-18.55	peak	V	1.5	248
5350.00	38.50	6.63	45.13	54	-8.87	AVG	V	1.5	264

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		151			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5725	51.94	-3.44	48.50	74	- 25.50	peak	H	1.5	118
5725	36.10	-3.44	32.66	54	- 21.34	AV	H	1.5	281
5725	50.11	-3.44	46.67	74	- 27.33	peak	V	1.5	256
5725	36.24	-3.44	32.80	54	- 21.20	AV	V	1.5	195

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850	53.90	-3.42	50.48	74	- 23.52	peak	H	1.5	331
5850	37.22	-3.42	33.80	54	- 20.20	AV	H	1.5	276
5850	49.59	-3.42	46.17	74	- 27.83	peak	V	1.5	149
5850	35.01	-3.42	31.59	54	- 22.41	AV	V	1.5	313

Worse case mode:		802.11ac(HT20)(6.5Mbps)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	53.21	-3.63	49.58	74	- 24.42	peak	H	1.5	105
5150.00	36.36	-3.63	32.73	54	- 21.27	AVG	H	1.5	346
5150.00	50.52	-3.63	46.89	74	- 27.11	peak	V	1.5	303
5150.00	37.60	-3.63	33.97	54	- 20.03	AVG	V	1.5	216

Worse case mode:		802.11ac(HT20)(6.5Mbps)		Test channel:		64			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	48.85	-2.74	46.11	74	- 27.89	peak	H	1.5	256
5350.00	39.63	-2.74	36.89	54	- 17.11	AVG	H	1.5	140
5350.00	41.07	13.02	54.09	74	- 19.91	peak	V	1.5	230
5350.00	31.51	13.02	44.53	54	- -9.47	AVG	V	1.5	237

Worse case mode:		802.11ac(HT20)(6.5Mbps)		Test channel:		149			
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5725	57.35	-4.14	53.21	74	- 20.79	peak	H	1.5	97
5725	42.59	-4.14	38.45	54	- 15.55	AV	H	1.5	254
5725	51.64	0.56	52.20	74	- 21.80	peak	V	1.5	339
5725	36.05	0.56	36.61	54	- 17.39	AV	V	1.5	148

Worse case mode:		802.11ac(HT20)(6.5Mbps)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850	61.44	-9.29	52.15	74	-21.85	peak	H	1.5	82
5850	45.33	-9.29	36.04	54	-17.96	AV	H	1.5	184
5850	57.37	-4.03	53.34	74	-20.66	peak	V	1.5	113
5850	41.55	-4.03	37.52	54	-16.48	AV	V	1.5	328

Worse case mode:		802.11ac(VHT40)(13.5Mbps)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	56.78	-2.21	54.57	74	-19.43	peak	H	1.5	173
5150.00	44.57	-2.21	42.36	54	-11.64	AVG	H	1.5	50
5150.00	49.87	6.63	56.50	74	-17.50	peak	V	1.5	24
5150.00	37.16	6.63	43.79	54	-10.21	AVG	V	1.5	269

Worse case mode:		802.11ac(VHT40)(13.5Mbps)		Test channel:		62			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	56.12	-3.59	52.53	74	-21.47	peak	H	1.5	163
5350.00	38.12	-3.59	34.53	54	-19.47	AVG	H	1.5	200
5350.00	50.52	-3.59	46.93	74	-27.07	peak	V	1.5	76
5350.00	35.72	-3.59	32.13	54	-21.87	AVG	V	1.5	67

Worse case mode:		802.11ac(VHT40)(13.5Mbps)		Test channel:		151			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5725	47.92	6.97	54.89	74	-19.11	peak	H	1.5	116
5725	35.75	6.97	42.72	54	-11.28	AV	H	1.5	285
5725	41.49	15.71	57.20	74	-16.80	peak	V	1.5	185
5725	28.77	15.71	44.48	54	-9.52	AV	V	1.5	161

Worse case mode:		802.11ac(VHT40)(13.5Mbps)		Test channel:		159			
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.		
5850	53.32	-3.42	49.90	74	-24.10		H	1.5	157
5850	36.87	-3.42	33.45	54	-20.55	AV	H	1.5	137
5850	50.23	-3.42	46.81	74	-27.19	peak	V	1.5	180
5850	36.15	-3.42	32.73	54	-21.27	AV	V	1.5	22

Worse case mode:		802.11ac(VHT80)(29.3Mbps)		Test channel:		58			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	48.90	6.97	55.87	74	-18.13	peak	H	1.5	275
5150.00	36.90	6.97	43.87	54	-10.13	AVG	H	1.5	284
5150.00	41.07	15.71	56.78	74	-17.22	peak	V	1.5	31
5150.00	28.64	15.71	44.35	54	-9.65	AVG	V	1.5	172
5350.00	48.65	6.97	55.62	74	-18.38	peak	H	1.5	109
5350.00	38.34	6.97	45.31	54	-8.69	AVG	H	1.5	18
5350.00	42.59	15.71	58.30	74	-15.70	peak	V	1.5	24
5350.00	29.89	15.71	45.60	54	-8.40	AVG	V	1.5	167

Worse case mode:		802.11ac(VHT80)(29.3Mbps)		Test channel:		155			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5725	56.93	-2.21	54.72	74	-19.28	peak	H	1.5	128
5725	43.15	-2.21	40.94	54	-13.06	AV	H	1.5	195
5725	49.68	6.63	56.31	74	-17.69	peak	V	1.5	351
5725	36.14	6.63	42.77	54	-11.23	AV	V	1.5	92
5850	56.17	-2.21	53.96	74	-20.04	peak	H	1.5	5
5850	44.49	-2.21	42.28	54	-11.72	AV	H	1.5	264
5850	49.75	6.63	56.38	74	-17.62	peak	V	1.5	300
5850	36.25	6.63	42.88	54	-11.12	AV	V	1.5	61

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

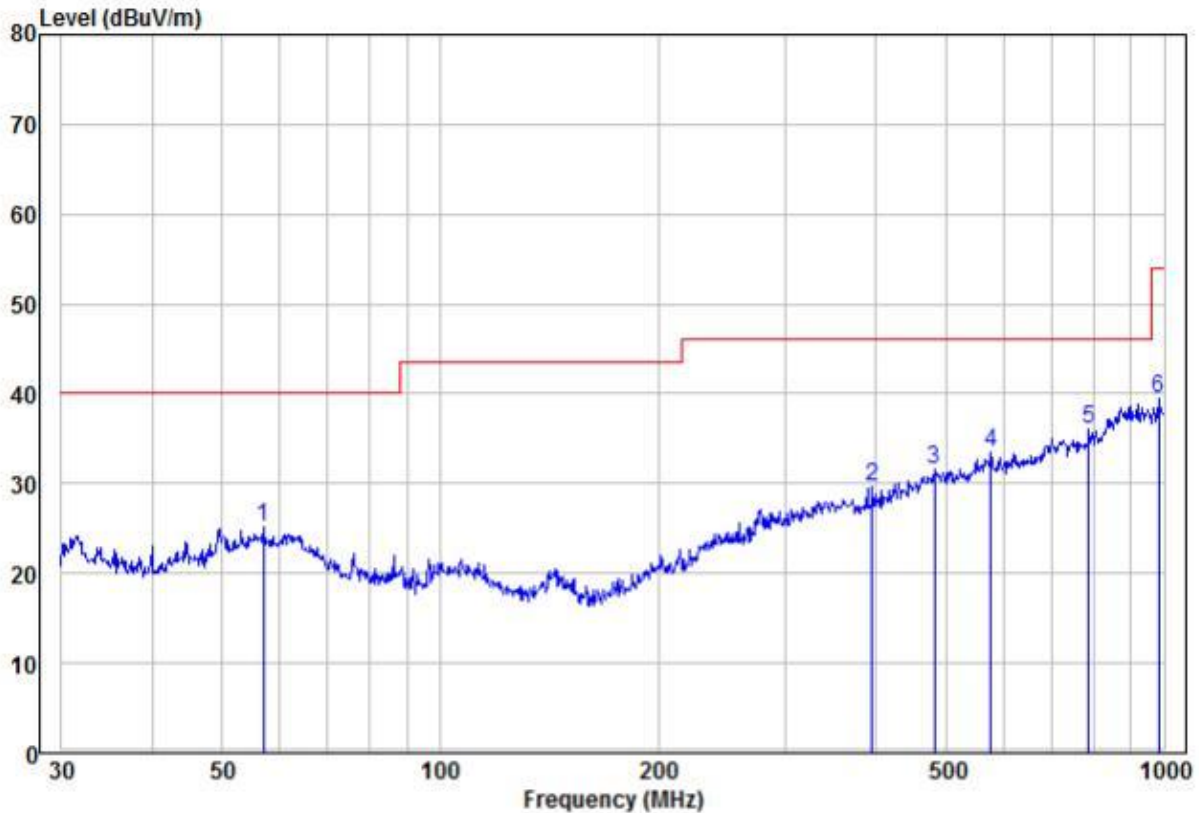
Appendix J): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:					
Below 1GHz test procedure as below: - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre) - Test the EUT in the lowest channel ,the middle channel ,the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBμV/cm)	Remark	Measurement distance (cm)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				
Test result:		PASS			

Test Data:

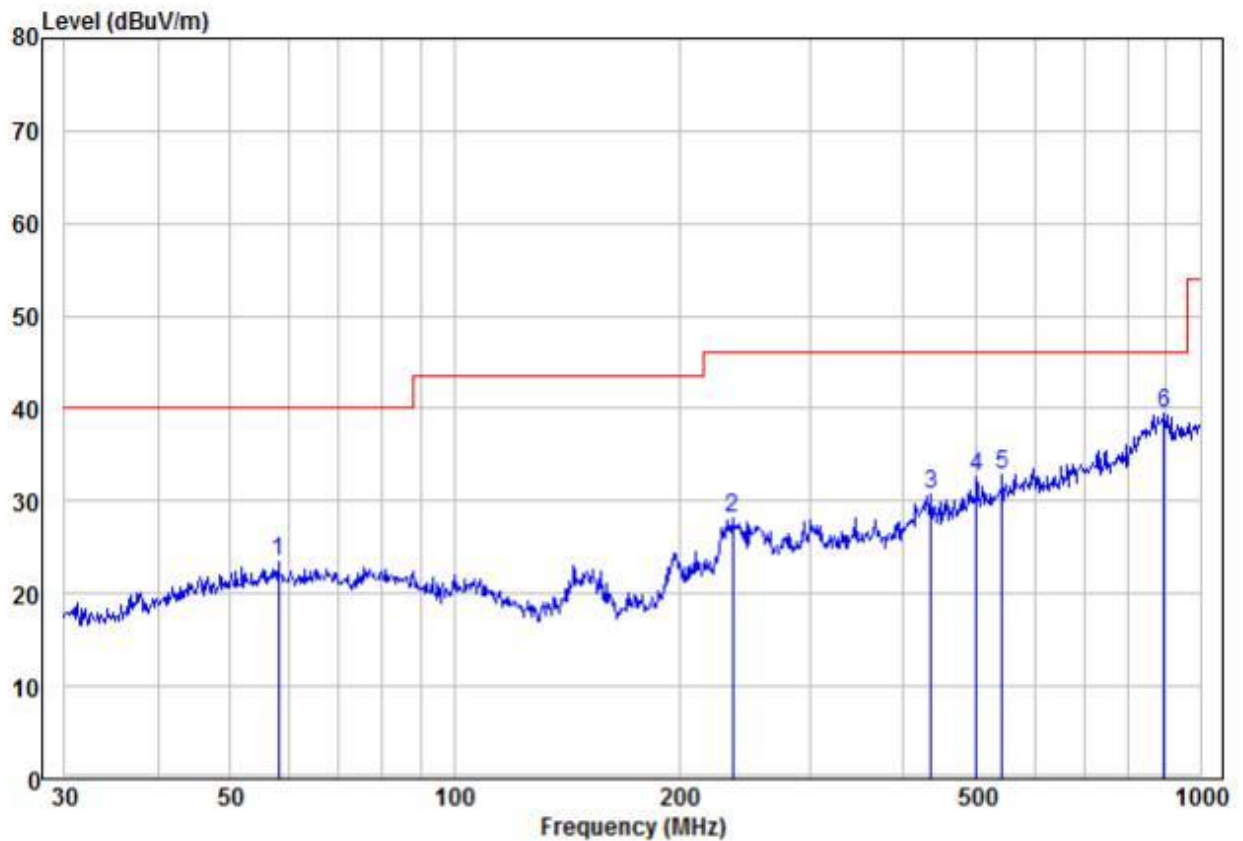
Radiated Emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting (802.11a 36CH)	Vertical



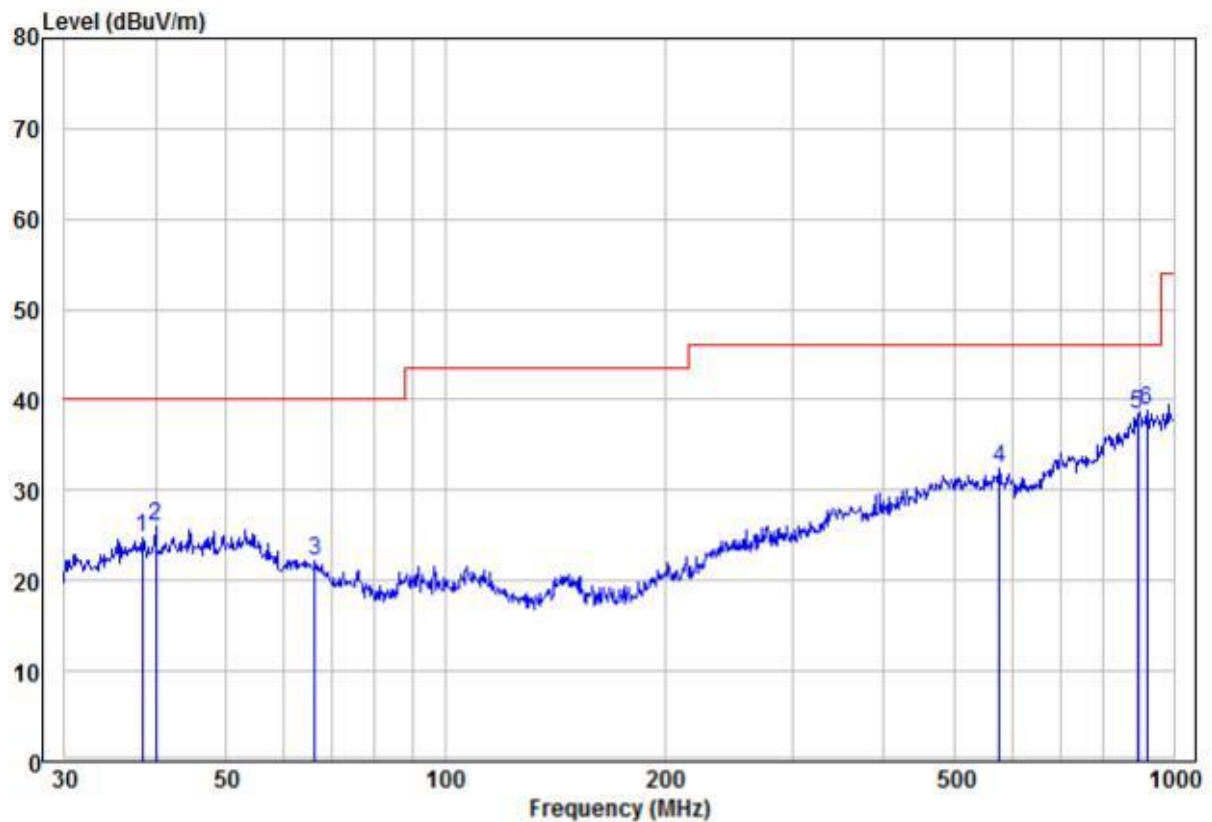
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	56.99	25.08	0.00	25.08	40.00	-14.92	Peak	VERTICAL	100	245
2	394.85	28.76	1.00	29.76	46.00	-16.24	Peak	VERTICAL	100	109
3	482.22	30.64	1.00	31.64	46.00	-14.36	Peak	VERTICAL	100	23
4	576.64	32.55	0.84	33.39	46.00	-12.61	Peak	VERTICAL	100	92
5 pp	787.85	34.47	1.50	35.97	46.00	-10.03	Peak	VERTICAL	100	125
6	982.62	37.39	2.00	39.39	54.00	-14.61	Peak	VERTICAL	100	335

Test mode:	Transmitting (802.11a 36CH)	Horizontal
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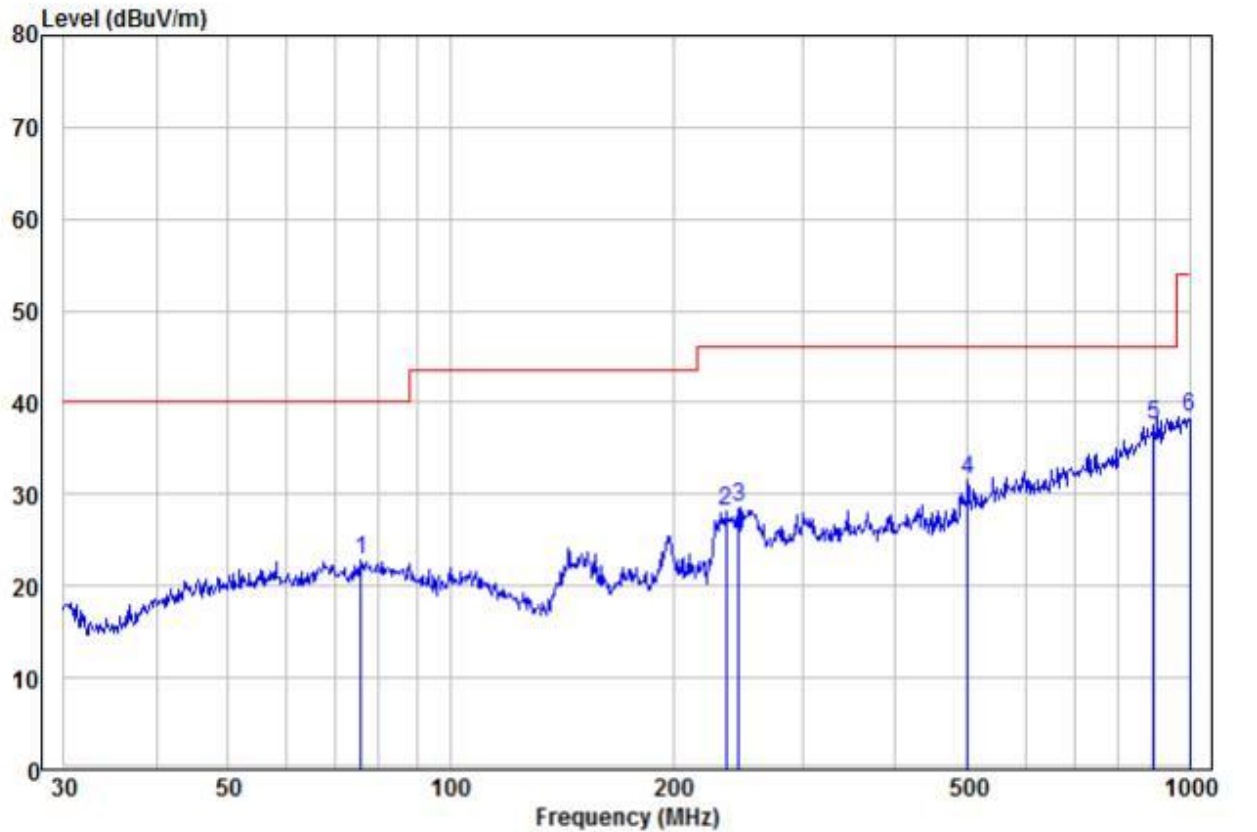
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	58.00	23.53	0.00	23.53	40.00	-16.47	Peak	HORIZONTAL	100	41
2	235.82	26.75	1.47	28.22	46.00	-17.78	Peak	HORIZONTAL	100	126
3	435.59	29.76	1.00	30.76	46.00	-15.24	Peak	HORIZONTAL	100	54
4	501.18	31.58	1.00	32.58	46.00	-13.42	Peak	HORIZONTAL	100	331
5	543.27	31.89	1.00	32.89	46.00	-13.11	Peak	HORIZONTAL	100	248
6 pp	893.86	35.96	3.50	39.46	46.00	-6.54	Peak	HORIZONTAL	100	129

30MHz~1GHz		
Test mode:	Transmitting (802.11a 149CH)	Vertical



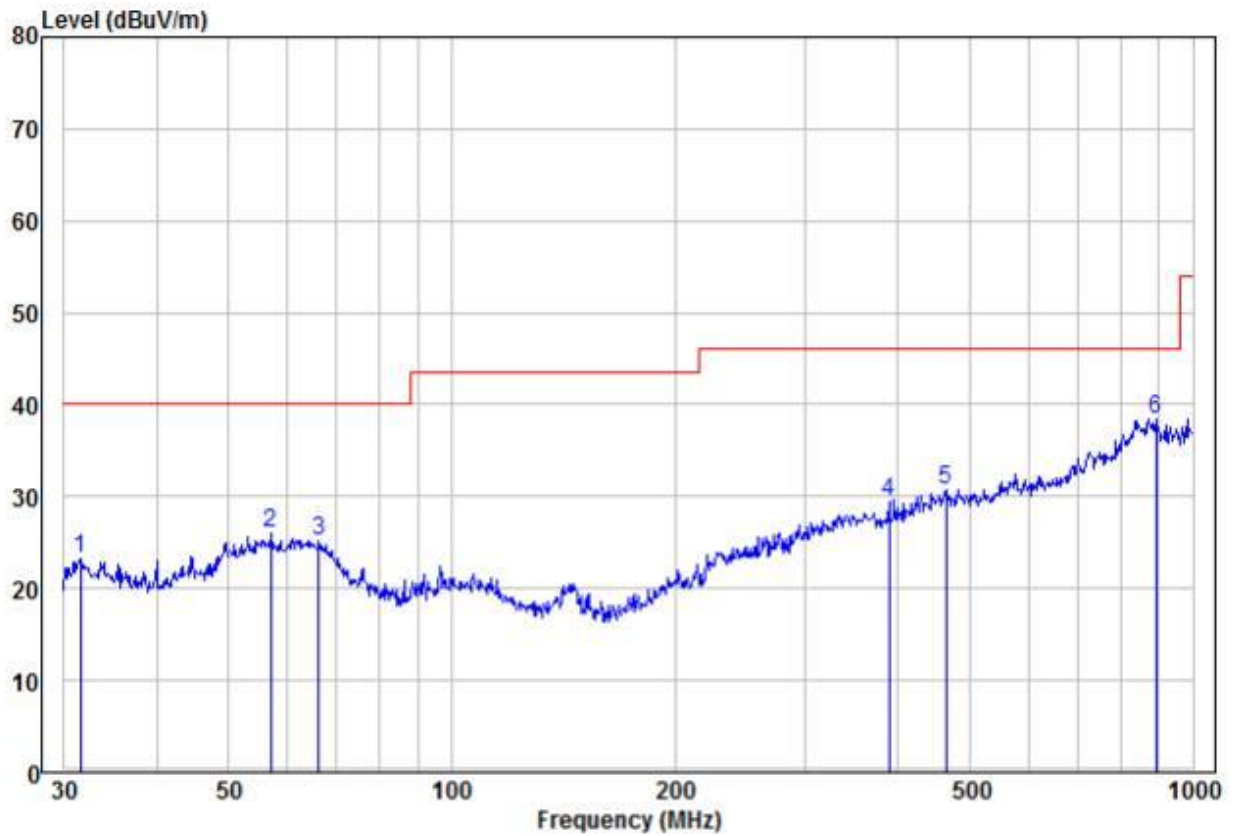
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	38.35	26.77	-2.00	24.77	40.00	-15.23	Peak	VERTICAL	100	230
2	39.99	28.13	-2.00	26.13	40.00	-13.87	Peak	VERTICAL	100	156
3	66.27	22.11	0.00	22.11	40.00	-17.89	Peak	VERTICAL	100	214
4	576.64	31.55	0.84	32.39	46.00	-13.61	Peak	VERTICAL	100	144
5	890.73	34.93	3.50	38.43	46.00	-7.57	Peak	VERTICAL	100	135
6 pp	919.29	36.77	2.00	38.77	46.00	-7.23	Peak	VERTICAL	100	125

Test mode:	Transmitting (802.11a 149CH)	Horizontal
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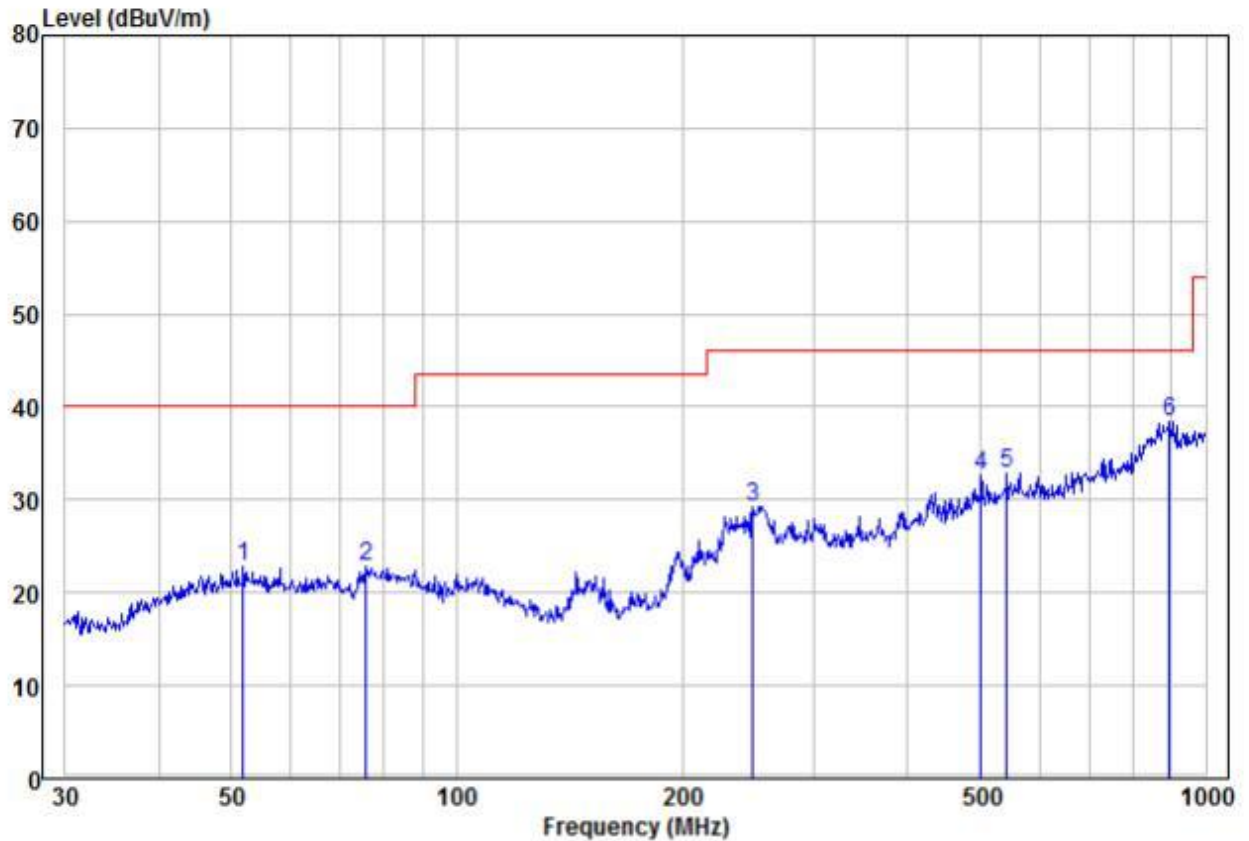
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	75.71	22.77	0.00	22.77	40.00	-17.23	Peak	HORIZONTAL	100	131
2	235.82	26.75	1.47	28.22	46.00	-17.78	Peak	HORIZONTAL	100	33
3	245.95	26.64	2.00	28.64	46.00	-17.36	Peak	HORIZONTAL	100	87
4	501.18	30.58	1.00	31.58	46.00	-14.42	Peak	HORIZONTAL	100	152
5 pp	893.86	33.96	3.50	37.46	46.00	-8.54	Peak	HORIZONTAL	100	254
6	1000.00	36.35	2.00	38.35	54.00	-15.65	Peak	HORIZONTAL	100	218

30MHz~1GHz		
Test mode:	Transmitting (802.11a 52CH)	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	31.51	25.51	-2.35	23.16	40.00	-16.84	Peak	VERTICAL	100	190
2	56.99	26.08	0.00	26.08	40.00	-13.92	Peak	VERTICAL	100	135
3	66.27	25.11	0.00	25.11	40.00	-14.89	Peak	VERTICAL	100	187
4	389.35	28.38	1.00	29.38	46.00	-16.62	Peak	VERTICAL	100	166
5	463.97	29.80	1.00	30.80	46.00	-15.20	Peak	VERTICAL	100	225
6 pp	890.73	34.93	3.50	38.43	46.00	-7.57	Peak	VERTICAL	100	210

Test mode:	Transmitting (802.11a 52CH)	Horizontal
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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	51.84	23.48	-0.63	22.85	40.00	-17.15	Peak	HORIZONTAL	100	338
2	75.71	22.77	0.00	22.77	40.00	-17.23	Peak	HORIZONTAL	100	62
3	248.55	27.25	2.00	29.25	46.00	-16.75	Peak	HORIZONTAL	100	140
4	501.18	31.58	1.00	32.58	46.00	-13.42	Peak	HORIZONTAL	100	237
5	543.27	31.89	1.00	32.89	46.00	-13.11	Peak	HORIZONTAL	100	13
6 pp	893.86	34.96	3.50	38.46	46.00	-7.54	Peak	HORIZONTAL	100	144

Transmitter Emission above 1GHz

Test mode:	802.11a(6Mbps)			Test channel:		36 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10360	59.17	-9.2	49.97	74	-24.03	peak	H	1.5	299
10360	44.13	-9.2	34.93	54	-19.07	AVG	H	1.5	91
15540	59.32	-9.39	49.93	74	-24.07	peak	H	1.5	308
15540	46.14	-9.39	36.75	54	-17.25	AVG	H	1.5	344
10360	58.46	-9.2	49.26	74	-24.74	peak	V	1.5	279
10360	44.64	-9.2	35.44	54	-18.56	AVG	V	1.5	280
15540	59.26	-9.39	49.87	74	-24.13	peak	V	1.5	322
15540	46.91	-9.39	37.52	54	-16.48	AVG	V	1.5	239

Test mode:	802.11a(6Mbps)			Test channel:		48 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10480	58.31	-9.2	49.11	74	-24.89	peak	H	1.5	175
10480	44.41	-9.2	35.21	54	-18.79	AVG	H	1.5	281
15720	59.70	-9.39	50.31	74	-23.69	peak	H	1.5	44
15720	46.25	-9.39	36.86	54	-17.14	AVG	H	1.5	75
10480	58.50	-9.2	49.30	74	-24.70	peak	V	1.5	49
10480	44.51	-9.2	35.31	54	-18.69	AVG	V	1.5	307
15720	59.97	-9.39	50.58	74	-23.42	peak	V	1.5	132
15720	46.62	-9.39	37.23	54	-16.77	AVG	V	1.5	176

Test mode:	802.11a(6Mbps)			Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11490	59.16	-9.2	49.96	74	-24.04	peak	H	1.5	295
11490	44.27	-9.2	35.07	54	-18.93	AVG	H	1.5	333
17235	59.66	-9.39	50.27	74	-23.73	peak	H	1.5	258
17235	46.51	-9.39	37.12	54	-16.88	AVG	H	1.5	115
11490	58.62	-9.2	49.42	74	-24.58	peak	V	1.5	106
11490	44.72	-9.2	35.52	54	-18.48	AVG	V	1.5	248
17235	59.29	-9.39	49.90	74	-24.10	peak	V	1.5	189
17235	46.38	-9.39	36.99	54	-17.01	AVG	V	1.5	2

Test mode:	802.11a(6Mbps)			Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11650	59.22	-9.2	50.02	74	-23.98	peak	H	1.5	37
11650	44.47	-9.2	35.27	54	-18.73	AVG	H	1.5	18
17475	59.78	-9.39	50.39	74	-23.61	peak	H	1.5	113
17475	46.01	-9.39	36.62	54	-17.38	AVG	H	1.5	182
11650	58.72	-9.2	49.52	74	-24.48	peak	V	1.5	46
11650	44.24	-9.2	35.04	54	-18.96	AVG	V	1.5	199
17475	59.71	-9.39	50.32	74	-23.68	peak	V	1.5	231
17475	46.37	-9.39	36.98	54	-17.02	AVG	V	1.5	128

Test mode:	802.11a(6Mbps)			Test channel:		52 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10520	58.73	-9.2	49.53	74	-24.47	peak	H	1.5	306
10520	44.95	-9.2	35.75	54	-18.25	AVG	H	1.5	315
15780	59.65	-9.39	50.26	74	-23.74	peak	H	1.5	166
15780	46.64	-9.39	37.25	54	-16.75	AVG	H	1.5	328
10520	58.79	-9.2	49.59	74	-24.41	peak	V	1.5	157
10520	44.11	-9.2	34.91	54	-19.09	AVG	V	1.5	60
15780	59.44	-9.39	50.05	74	-23.95	peak	V	1.5	78
15780	46.94	-9.39	37.55	54	-16.45	AVG	V	1.5	81

Test mode:	802.11a(6Mbps)			Test channel:		64 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10640	58.83	-9.2	49.63	74	-24.37	peak	H	1.5	10
10640	44.72	-9.2	35.52	54	-18.48	AVG	H	1.5	155
15960	59.51	-9.39	50.12	74	-23.88	peak	H	1.5	296
15960	46.63	-9.39	37.24	54	-16.76	AVG	H	1.5	166
10640	58.66	-9.2	49.46	74	-24.54	peak	V	1.5	29
10640	44.57	-9.2	35.37	54	-18.63	AVG	V	1.5	53
15960	59.81	-9.39	50.42	74	-23.58	peak	V	1.5	10
15960	46.60	-9.39	37.21	54	-16.79	AVG	V	1.5	155

Remark:

- 1) The 802.11a 6Mbps of rate is the worst case, only the worst data recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 40GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Appendix B): Maximum Conduct Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

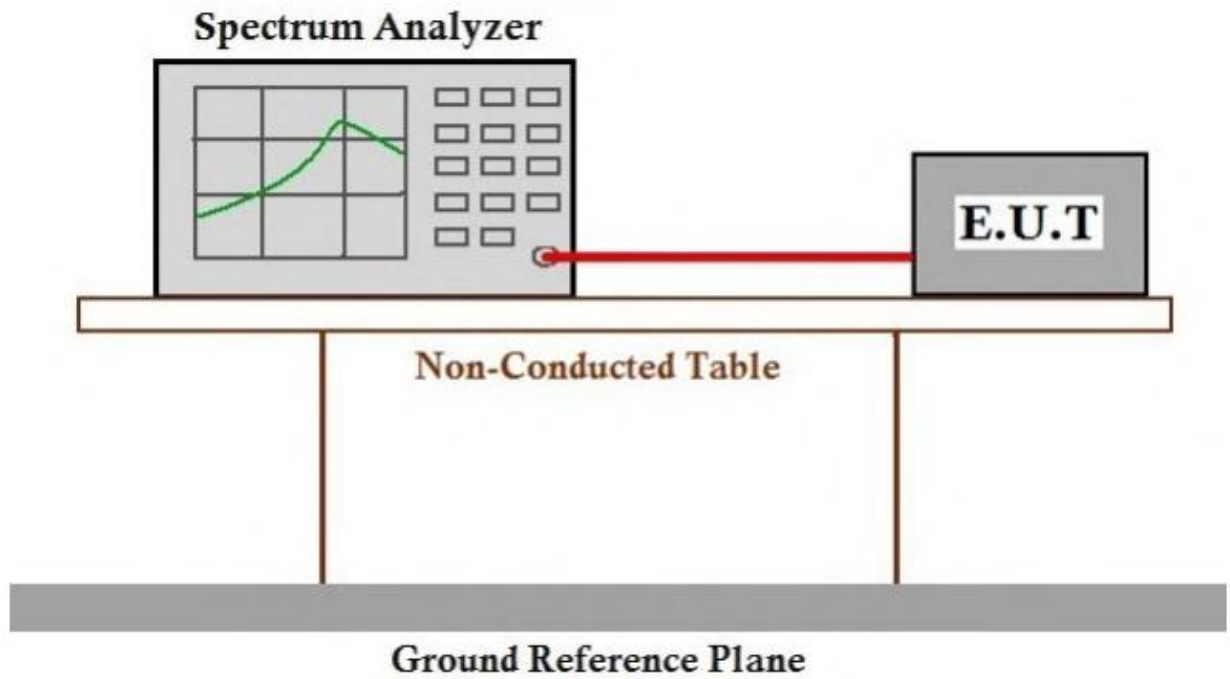
Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Procedure:

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (1) Set RBW = 1 MHz.
- (2) Set VBW ≥ 3 MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

Test Setup Diagram

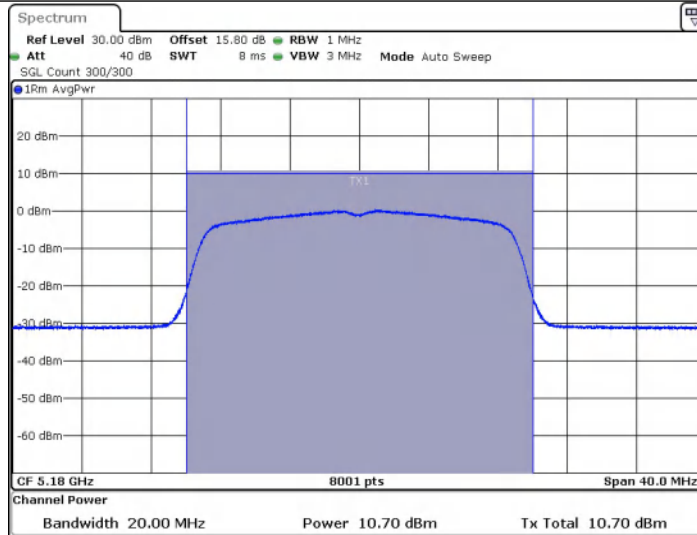


Measurement Data

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	10.70	≤23.98	PASS
		5200	10.46	≤23.98	PASS
		5240	8.95	≤23.98	PASS
		5260	9.31	≤23.98	PASS
		5280	7.95	≤23.98	PASS
		5320	9.38	≤23.98	PASS
		5745	9.20	≤30.00	PASS
		5785	8.41	≤30.00	PASS
		5825	7.77	≤30.00	PASS
11N20SISO	Ant1	5180	10.79	≤23.98	PASS
		5200	10.34	≤23.98	PASS
		5240	8.97	≤23.98	PASS
		5260	10.49	≤23.98	PASS
		5280	8.92	≤23.98	PASS
		5320	9.36	≤23.98	PASS
		5745	9.23	≤30.00	PASS
		5785	8.39	≤30.00	PASS
		5825	7.73	≤30.00	PASS
11N40SISO	Ant1	5190	10.81	≤23.98	PASS
		5230	8.77	≤23.98	PASS
		5270	9.95	≤23.98	PASS
		5310	9.14	≤23.98	PASS
		5755	8.82	≤30.00	PASS
		5795	9.01	≤30.00	PASS
11AC20SISO	Ant1	5180	10.84	≤23.98	PASS
		5200	10.35	≤23.98	PASS
		5240	9.00	≤23.98	PASS
		5260	10.50	≤23.98	PASS
		5280	8.87	≤23.98	PASS
		5320	9.44	≤23.98	PASS
		5745	7.15	≤30.00	PASS
		5785	8.29	≤30.00	PASS
		5825	7.87	≤30.00	PASS
11AC40SISO	Ant1	5190	10.67	≤23.98	PASS

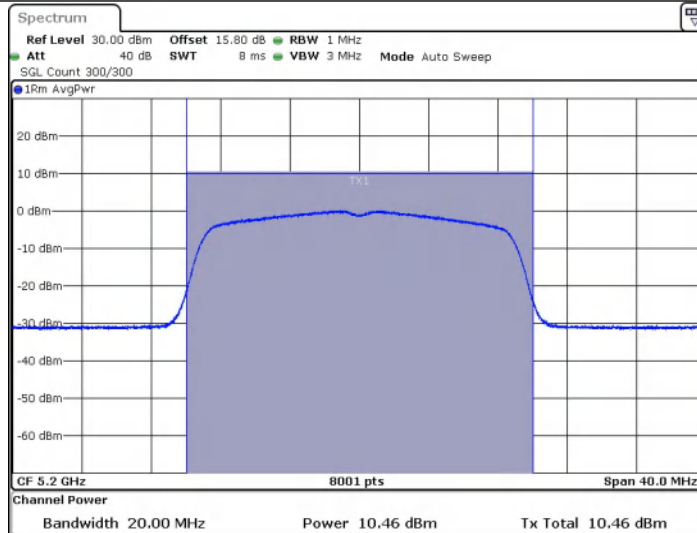
O		5230	8.85	≤ 23.98	PASS
		5270	9.98	≤ 23.98	PASS
		5310	9.24	≤ 23.98	PASS
		5755	11.31	≤ 30.00	PASS
		5795	9.11	≤ 30.00	PASS
11AC80SIS O	Ant1	5210	9.89	≤ 23.98	PASS
		5290	9.72	≤ 23.98	PASS
		5775	8.83	≤ 30.00	PASS

11A_Ant1_5180



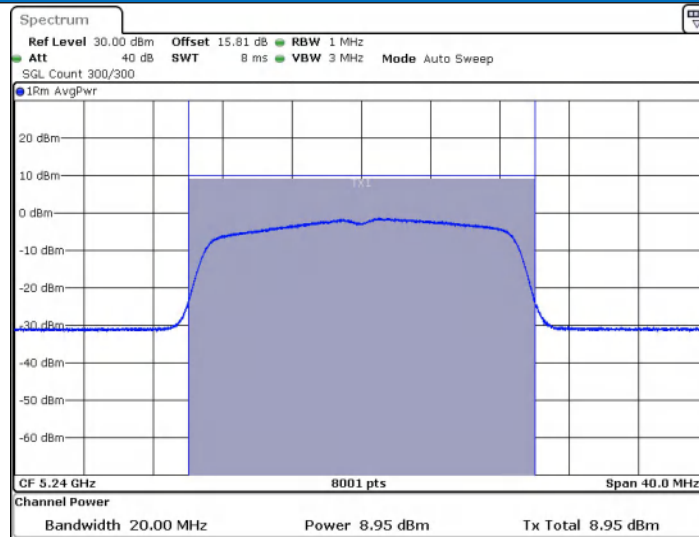
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11A_Ant1_5200



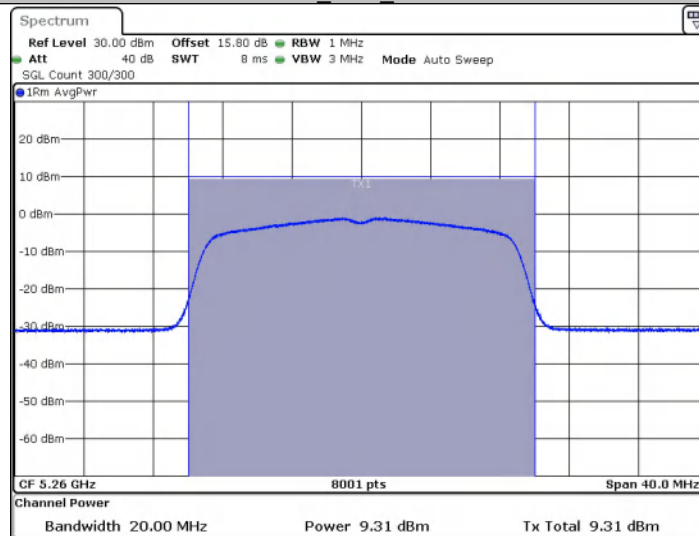
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11A_Ant1_5240



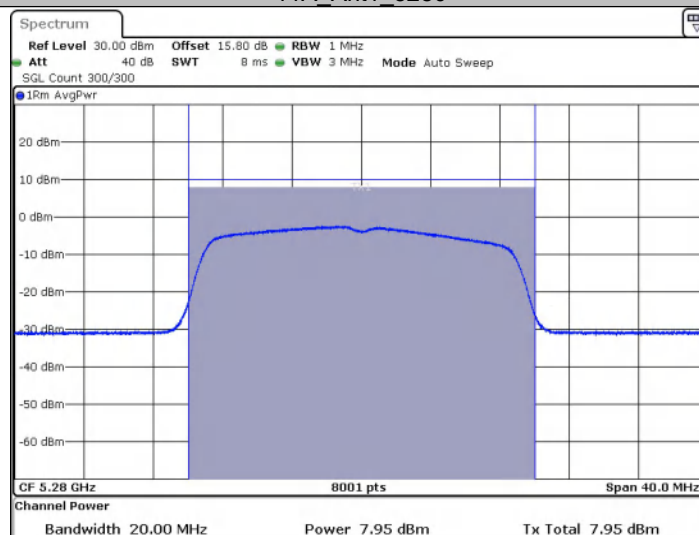
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11A_Ant1_5260



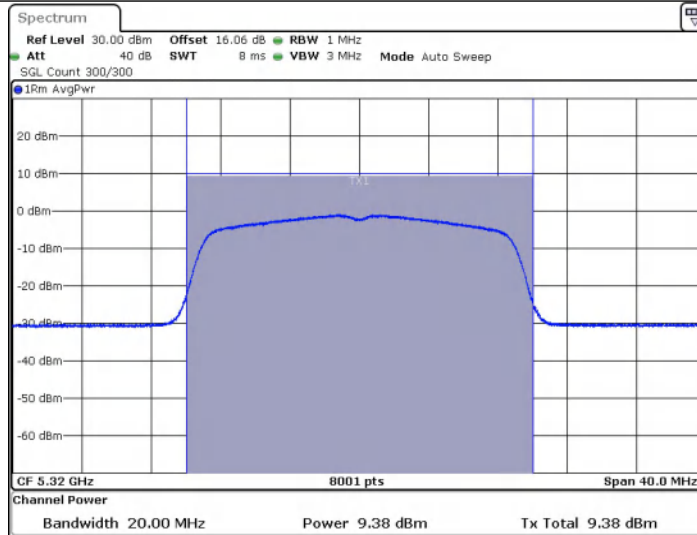
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11A_Ant1_5280

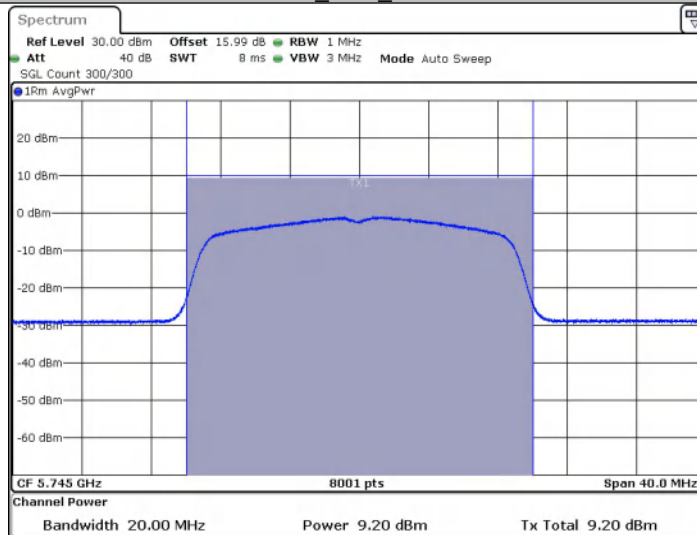


Date: 2 APR 2026 11:58:38

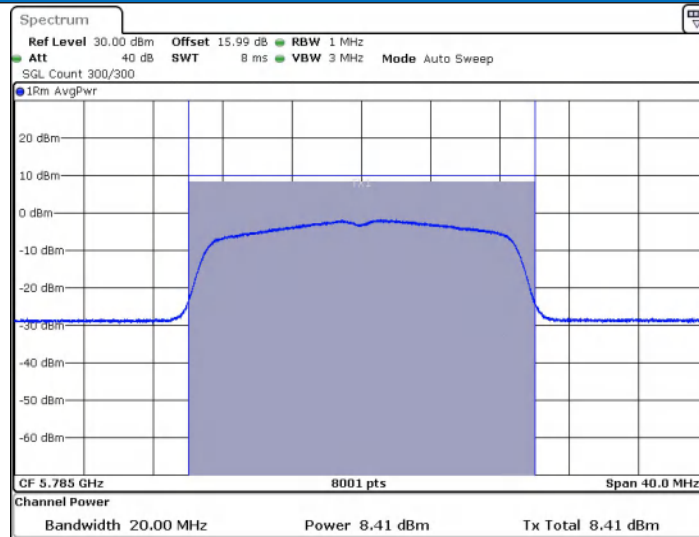
11A_Ant1_5320



11A_Ant1_5745

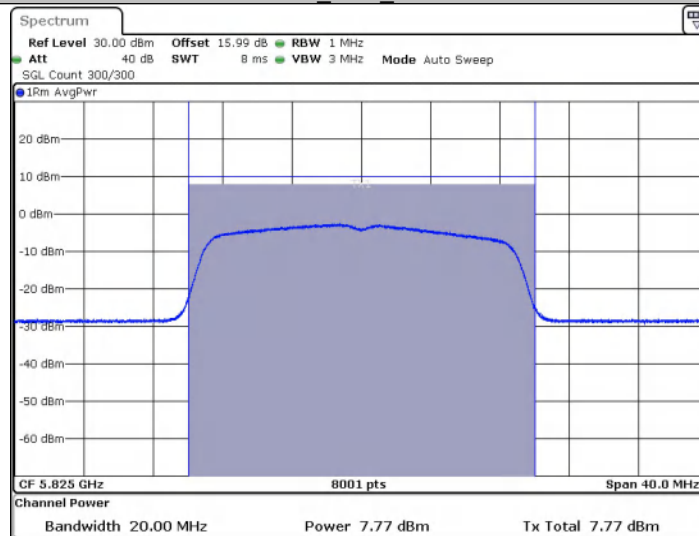


11A_Ant1_5785



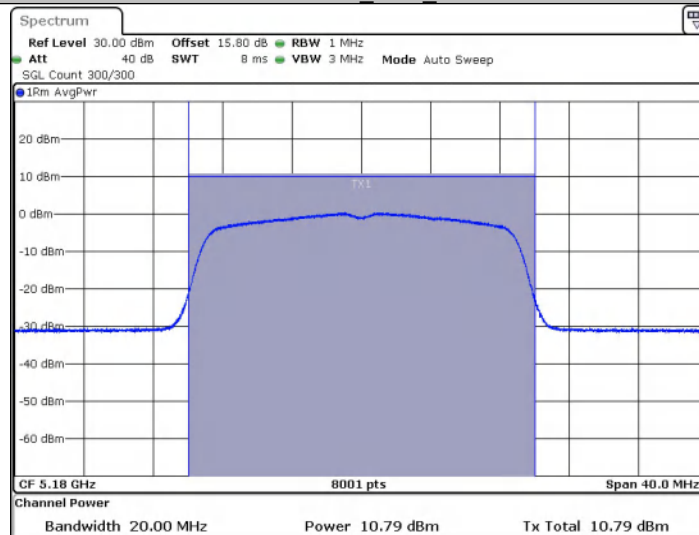
Date: 2 APR 2026 12:06:54

11A_Ant1_5825



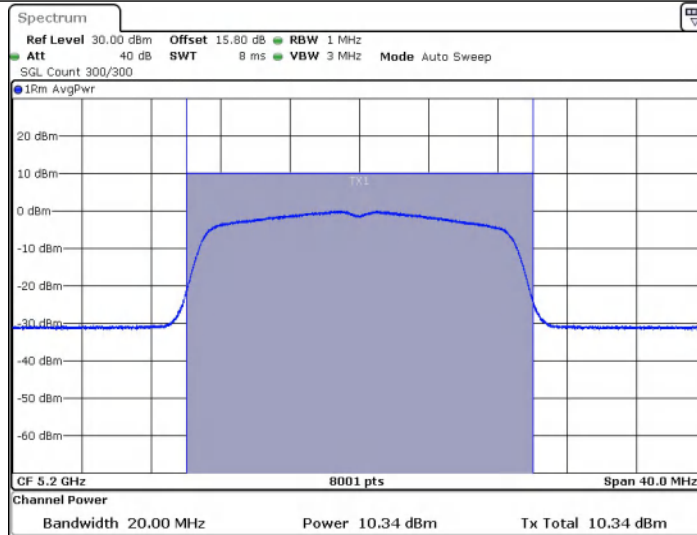
Date: 2 APR 2026 12:07:41

11N20SISO_Ant1_5180



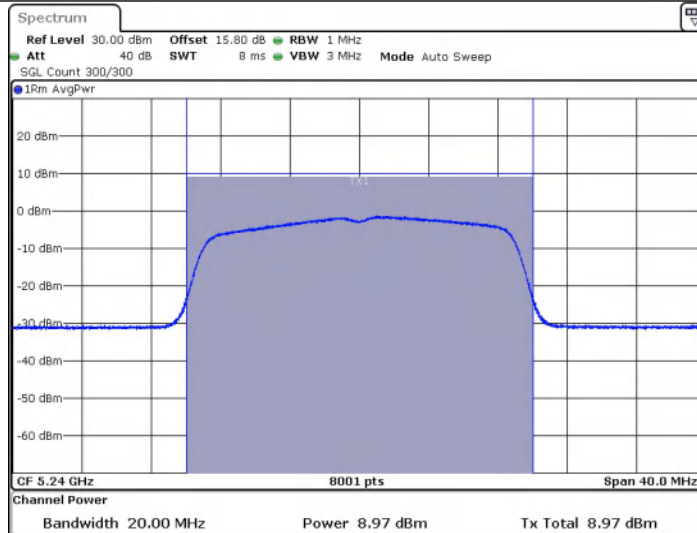
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11N20SISO_Ant1_5200



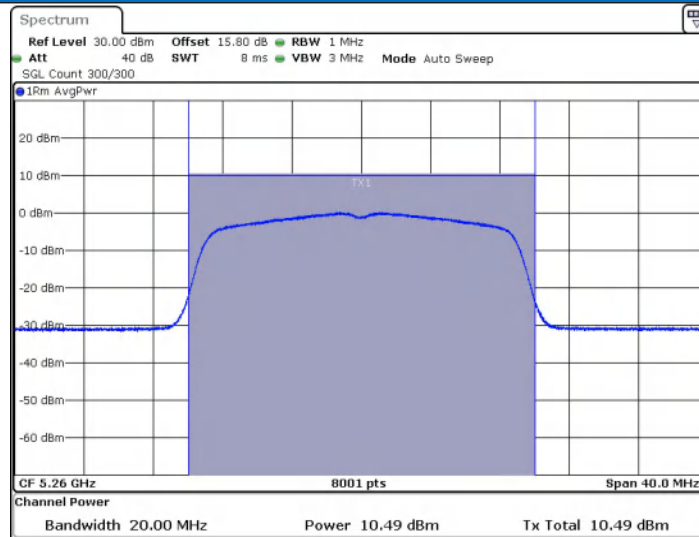
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11N20SISO_Ant1_5240



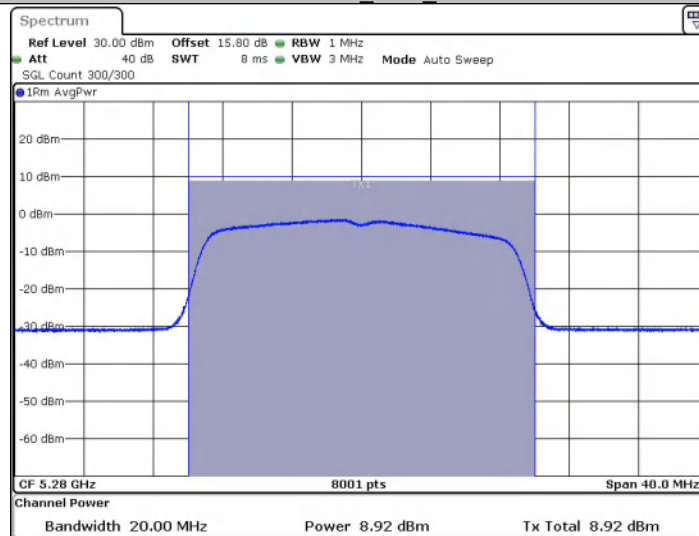
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11N20SISO_Ant1_5260



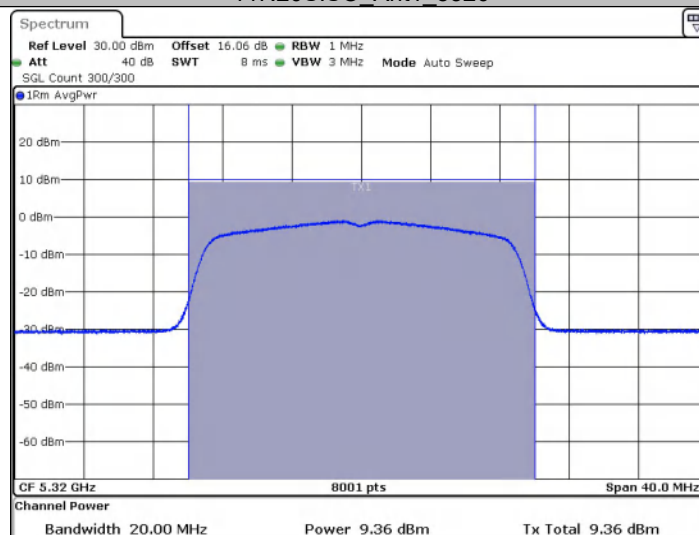
Date: 2 APR 2026 12:13:37

11N20SISO_Ant1_5280



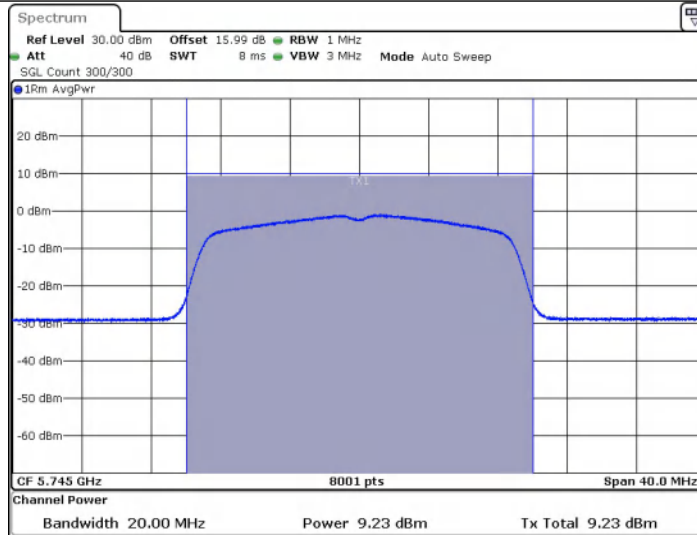
Date: 2 APR 2026 12:14:20

11N20SISO_Ant1_5320



Date: 2 APR 2026 12:15:34

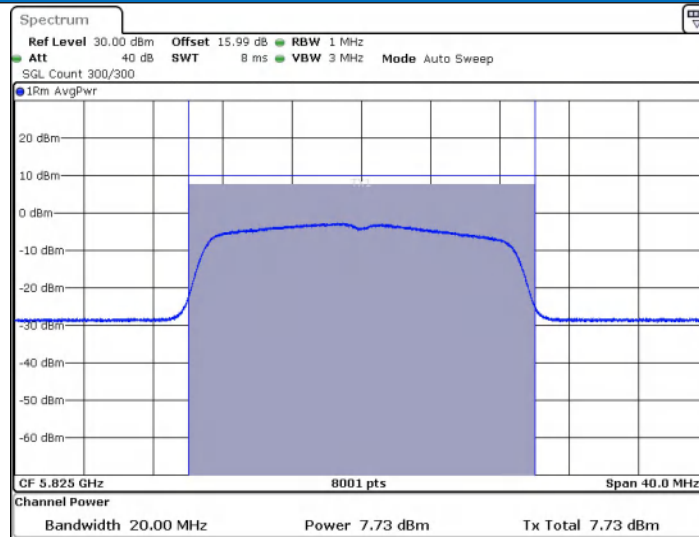
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

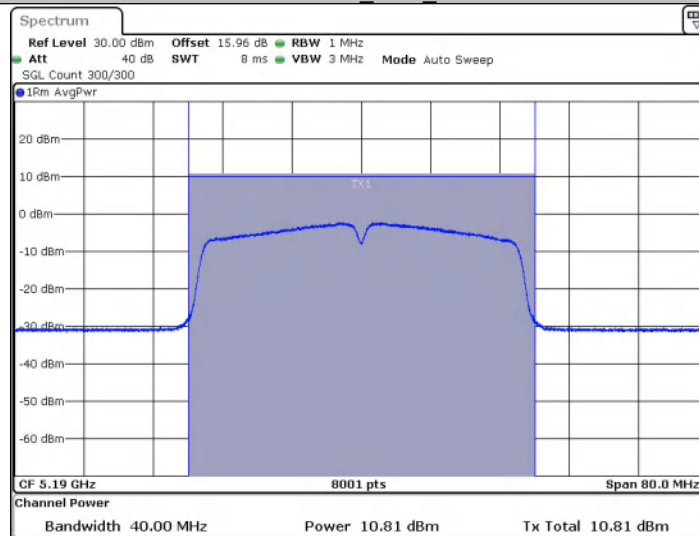


11N20SISO_Ant1_5825



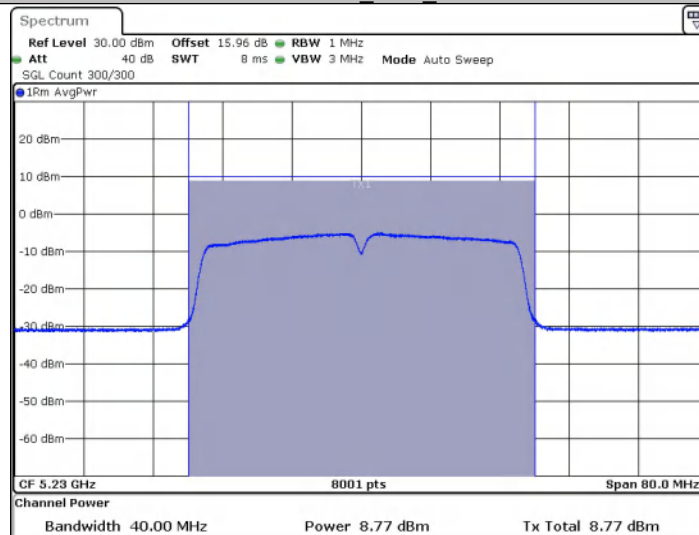
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11N40SISO_Ant1_5190



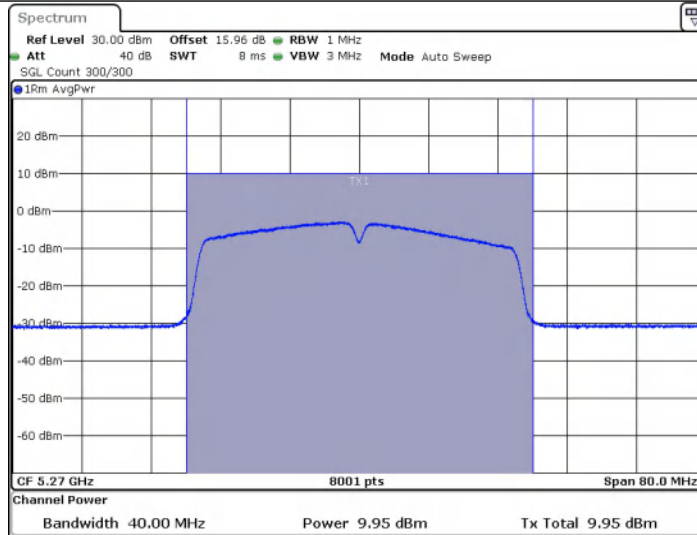
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11N40SISO_Ant1_5230



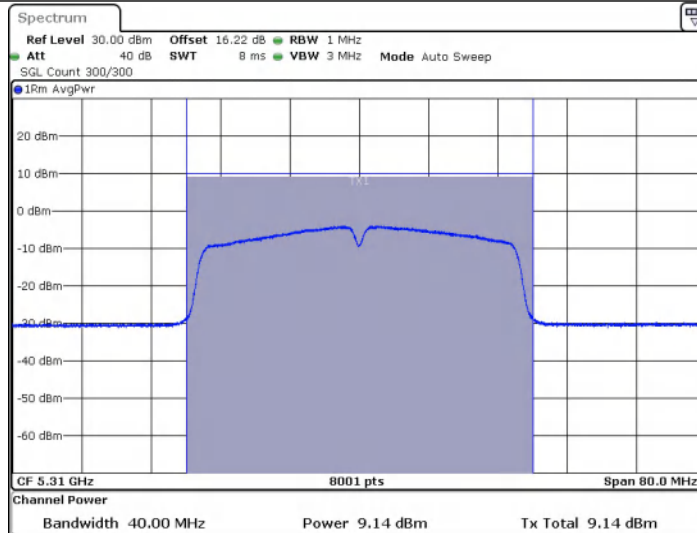
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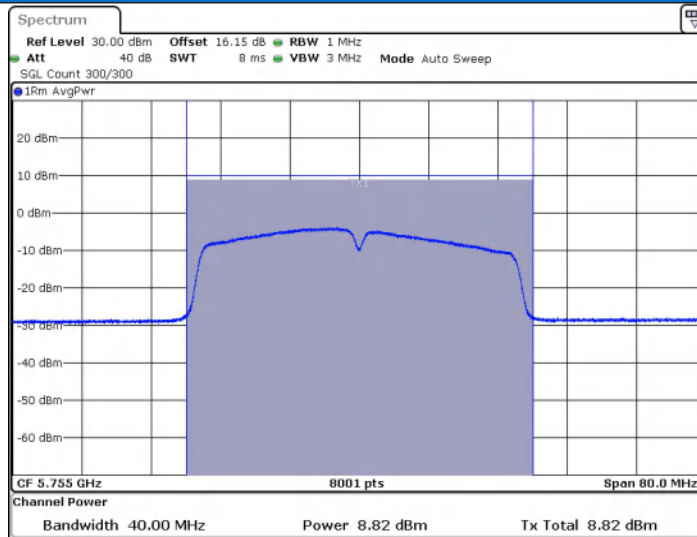
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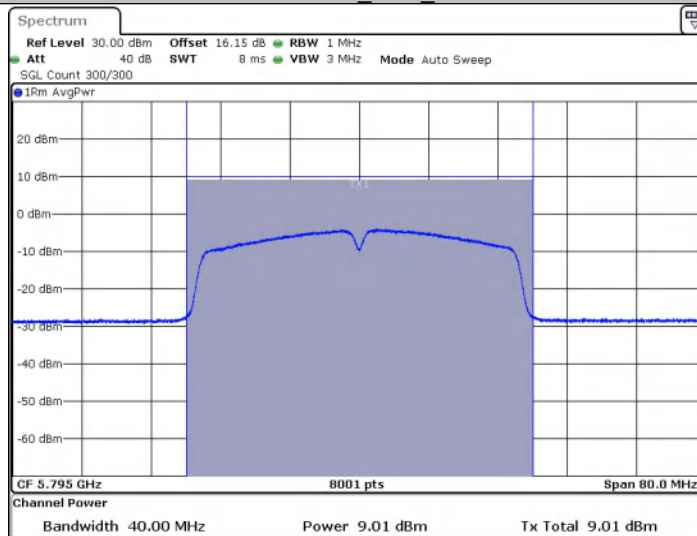
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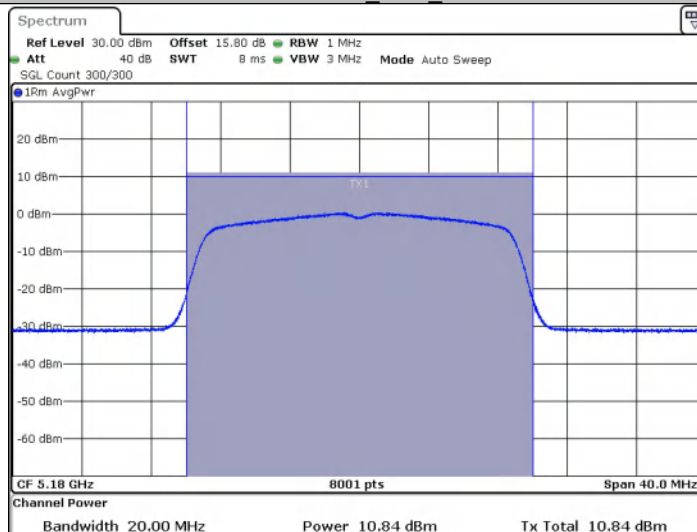
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11N40SISO_Ant1_5795



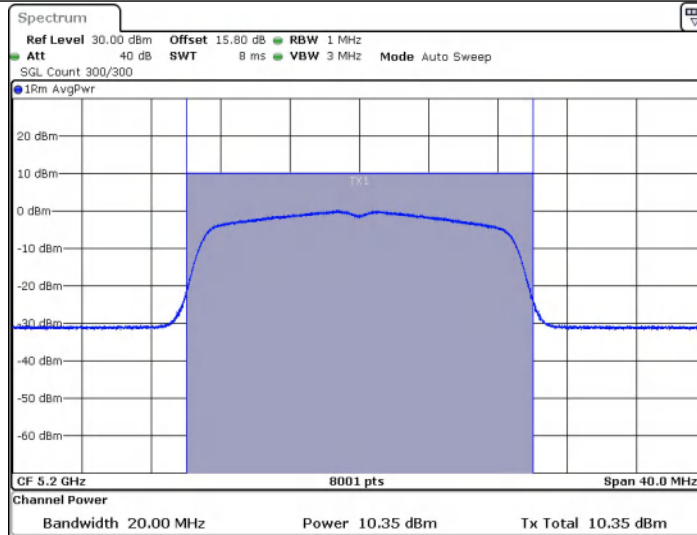
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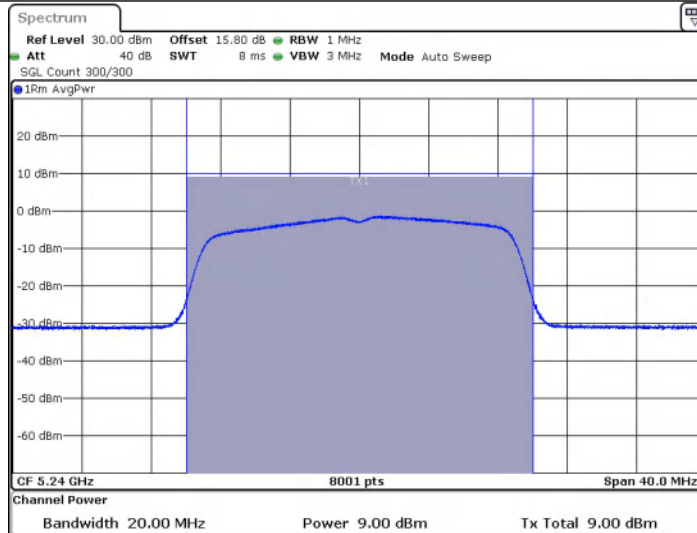
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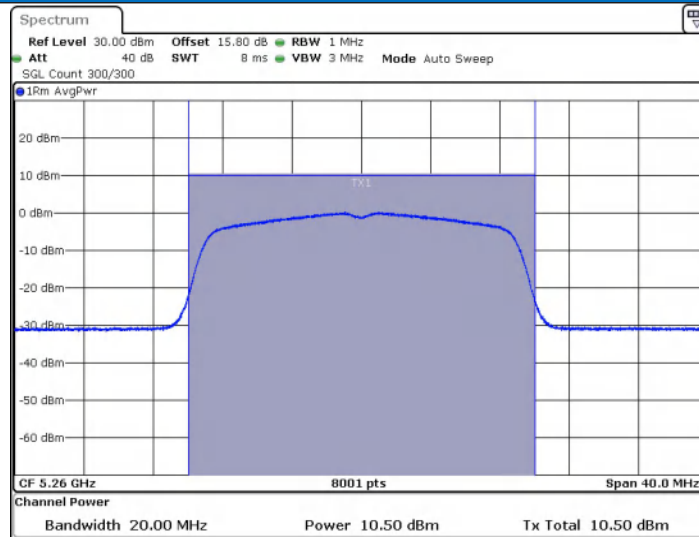
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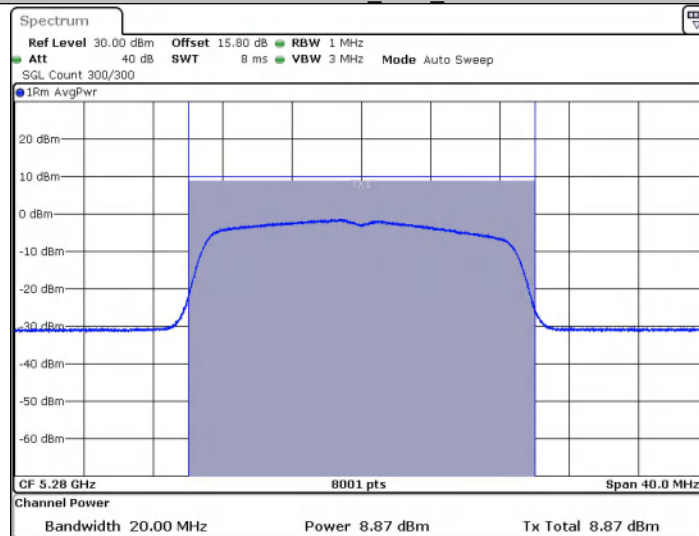
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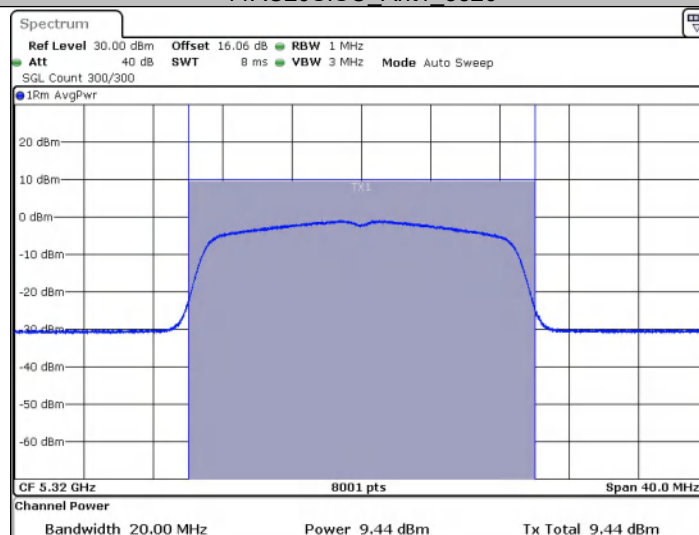
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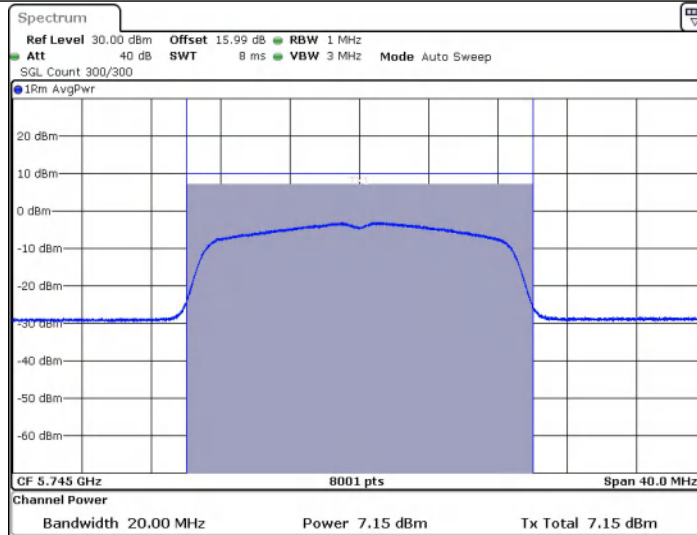
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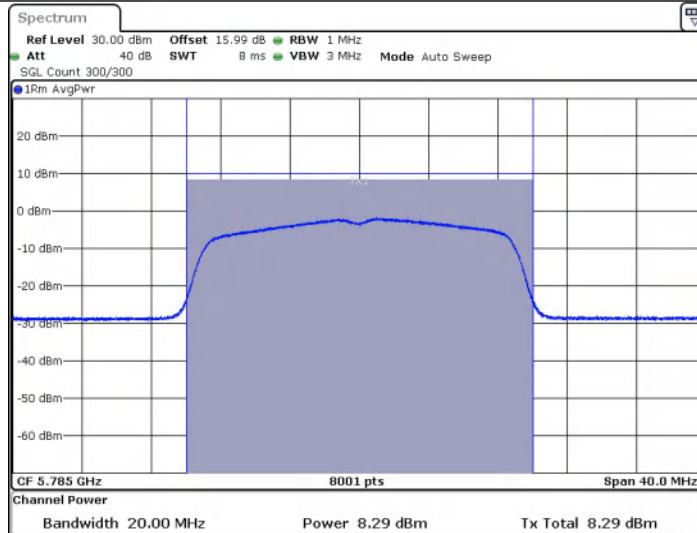
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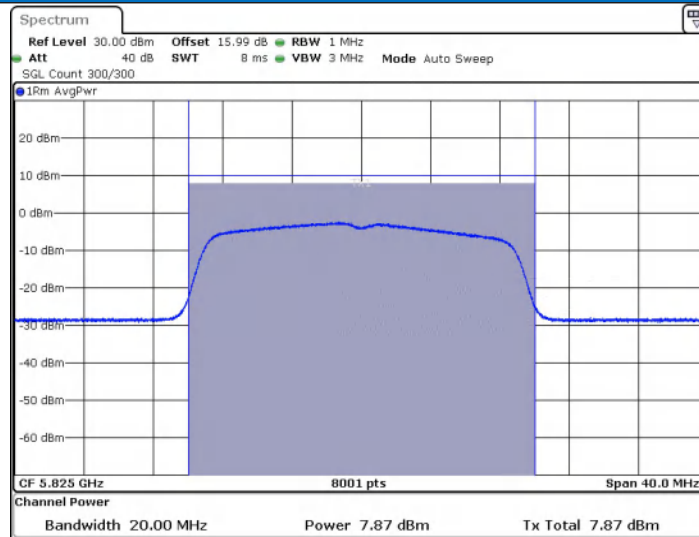
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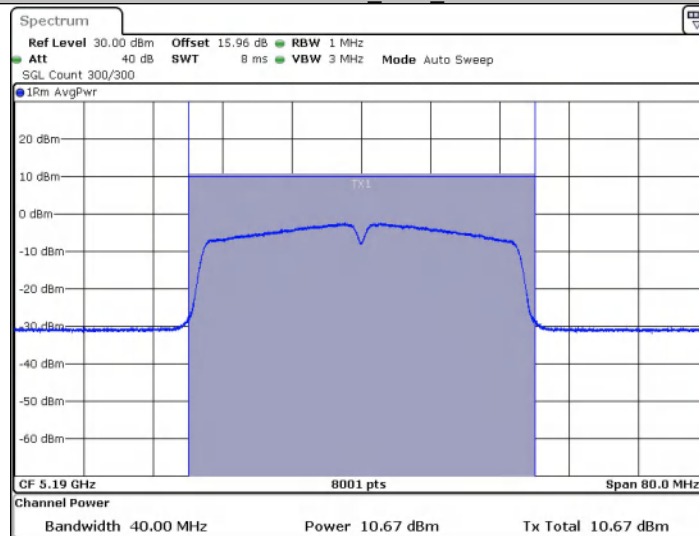
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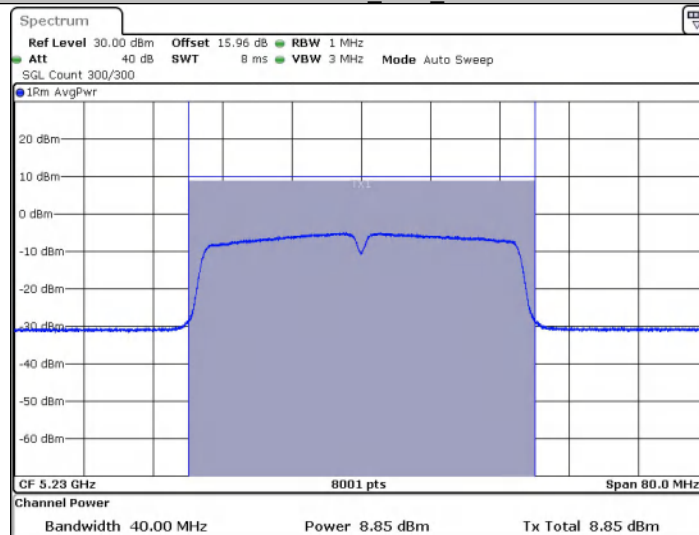
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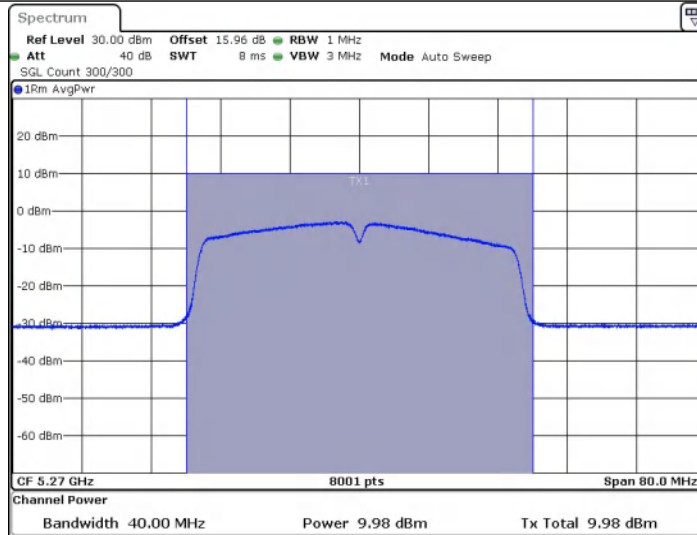
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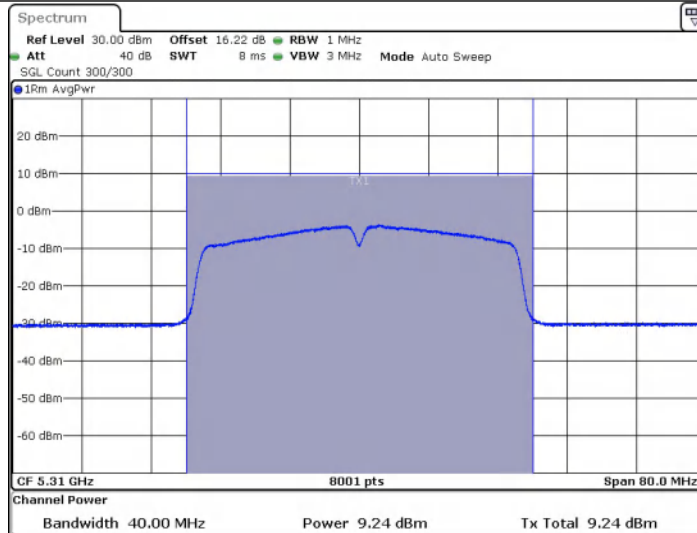
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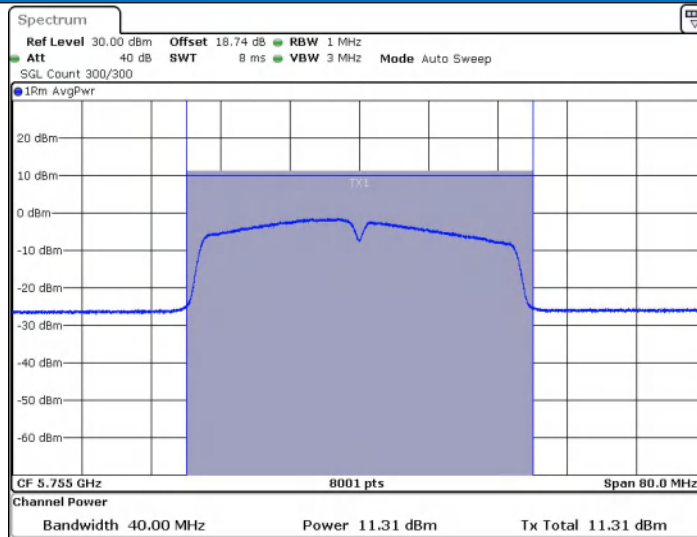
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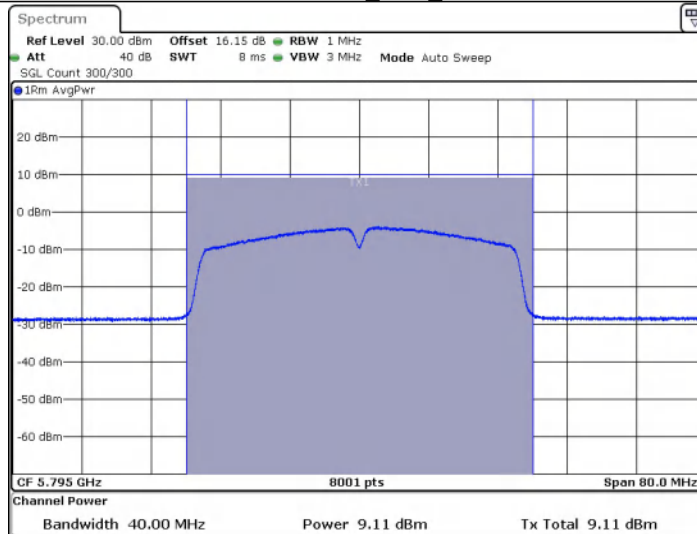
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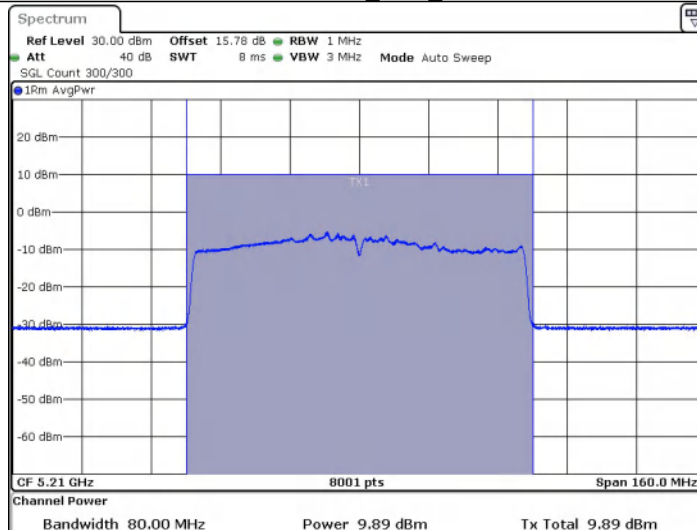
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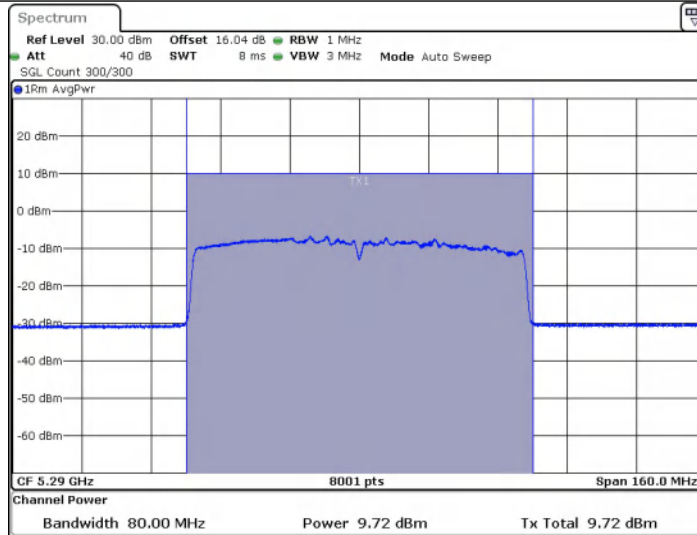
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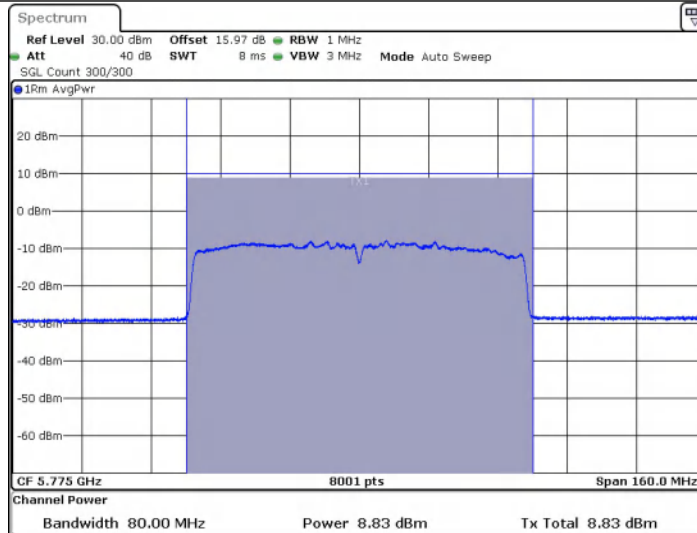
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Date: 2 APR 2026 15:01:05

11AC80SISO_Ant1_5775



Date: 2 APR 2026 15:07:58

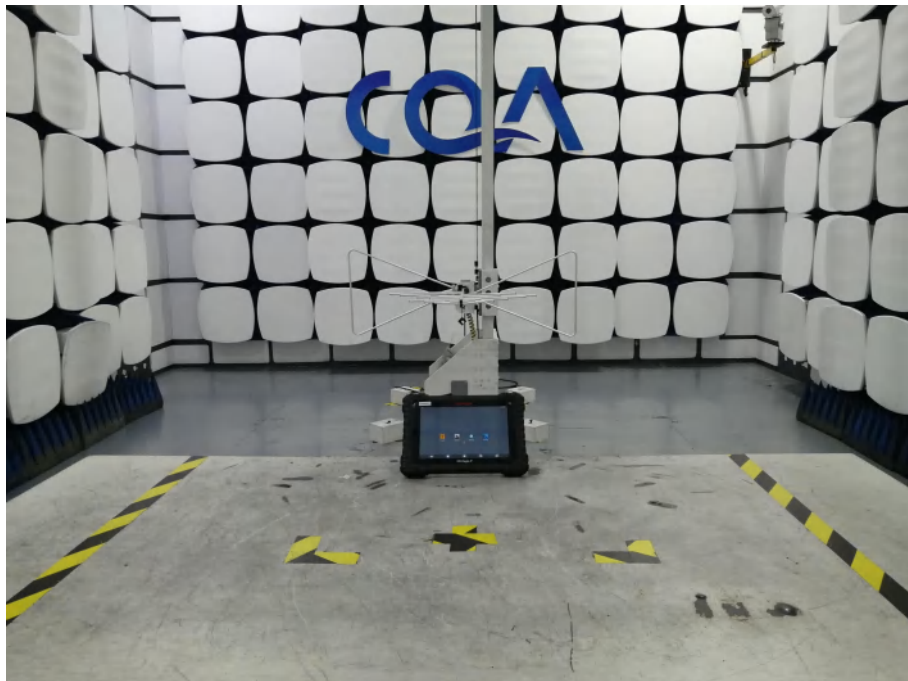
7 Photographs - EUT Test Setup

7.1 Radiated Spurious Emission

9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:



7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20251102752E-01.

*** END OF REPORT ***