



FCC RF Test Report

APPLICANT : Amazon.com Services LLC
EQUIPMENT : Digital Media Receiver
MODEL NAME : MD6NE4
FCC ID : 2A4DH-6274
STANDARD : FCC Part 15 Subpart C §15.249
CLASSIFICATION : (DXX) Low Power Communication Device Transmitter
TEST DATE(S) : Mar. 23, 2025 ~ Jun. 20, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4O1117-01F	Rev. 01	Initial issue of report	Apr. 11, 2025
FR4O1117-01F	Rev. 02	Updated Section 3.2.3 Test Procedures and RSE test at low, mid, high frequencies in Appendix C and duty cycle correction factor in Appendix D. This report is an update version, replacing the report issued on Apr. 11, 2025.	Jun. 23, 2025



SUMMARY OF TEST RESULT

Part	FCC Rule	Description of Test	Result	Remark
3.1	2.1049	20dB Bandwidth & 99% Bandwidth	Complies	-
3.2	15.249(a)	Field Strength of Fundamental Emissions	Complies	Under limit 6.83 dB at 5800.00 MHz
3.2	15.249(a)(d)	Radiated Spurious Emissions	Complies	Under limit 16.76 dB at 853.53 MHz
3.3	15.207	AC Power Line Conducted Emissions	Complies	Under limit 15.17 dB at 16.02 MHz
3.4	15.203	Antenna Requirements	Complies	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Amazon.com Services LLC

410 Terry Avenue N Seattle, WA 98109-5210 United States

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	MD6NE4
FCC ID	2A4DH-6274
SN Code	Conducted: P0G41G015065008L Conduction: G0G427015026003W Radiation: G0G43F015065001X

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Frequency Range	5725 MHz ~ 5875 MHz
Max. Field Strength	87.17 dB μ V/m
99% Occupied Bandwidth	129.471 MHz
Antenna Type	IFA Antenna
Antenna Gain	3.9 dBi

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH05-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.249
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode
Field Strength of Fundamental Emissions	CW
Bandwidth	FMCW
Radiated Emissions	CW

2.2 Carrier Frequency and Channel

Frequency Band	Channel	Center Freq. (MHz)
Low Power Wideband Radio in Wi-Fi 5GHz	1	5800

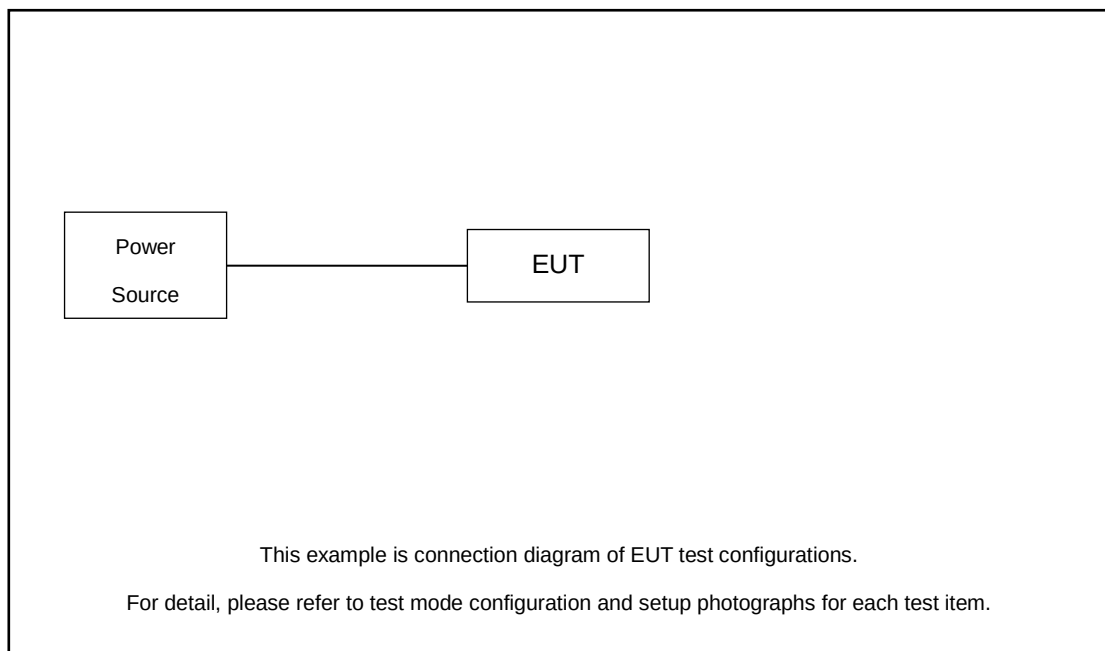
Note: The 99% OBW is tested by using FMCW, and the rest of test cases use CW mode in accordance with FCC part 15.31(c)

2.3 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Conducted TCs	Mode 1: 5800MHz
Radiated TCs	Mode 1: 5730MHz Mode 2: 5800MHz Mode 3: 5870MHz
AC Conducted Emission	Mode 1 : Low Power Wideband Radio in Wi-Fi 5GHz TX + Powered by Adapter

2.4 Test Configurations



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	N/A	N/A	N/A	N/A	N/A

2.6 EUT Operation Test Setup

The programmed RF utility, "Test Tool" installed in the notebook to make the EUT get into the engineering modes to continuously transmit



2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor which are included in RF test system.

Offset(dB) = 25.39 (dB)

3 Test Result

3.1 20dB and 99% Bandwidth

3.1.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band.

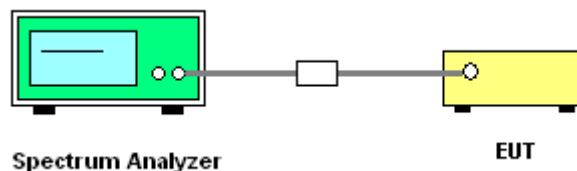
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna.
2. Enable the EUT transmit continuously under FMCW mode.
3. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
4. Measured the spectrum width with power higher than 20dB below carrier.

3.1.4 Test Setup



3.1.5 Test Result of 20dB/ 99% Bandwidth

Please refer to Appendix A.

3.2 Field Strength of Fundamental Emissions and Radiated Spurious Emissions

3.2.1 Limit

The field strength measured at 3 meters shall not exceed the limits in the following table:

Fundamental Frequencies(MHz)	Field Strength(millivolts/m)	
	Fundamental	Harmonics
902-928	50	0.5
2400-2483.5	50	0.5
5725-5875	50	0.5
24000-24250	250	2.5

Note: The limits shown in the above table are based on measurements using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using a CISPR quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed as below, whichever is less stringent.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

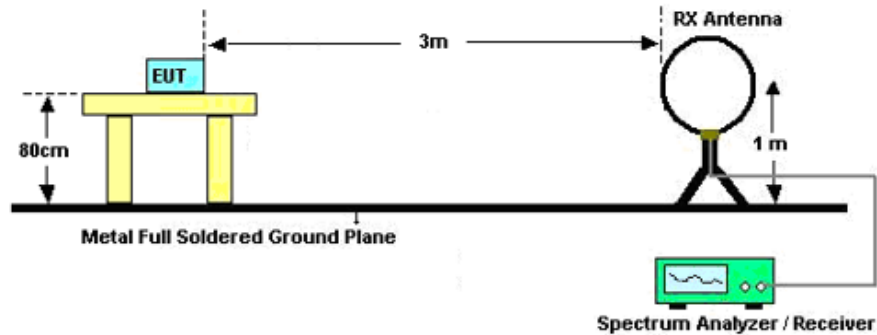
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
Span shall wide enough to fully capture the emission being measured;
Set RBW=120 kHz for $f < 1 \text{ GHz}$, RBW=1MHz for $f > 1\text{GHz}$; VBW $\geq$ RBW; Sweep = auto;
Detector function = peak; Trace = max hold for peak
For average measurement: use duty cycle correction factor method per 15.35(c).
Use an RF detector and oscilloscope to measure the duty cycle of the EUT in normal working status.
Duty cycle = On time/100 milliseconds
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + Duty cycle correction factor
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

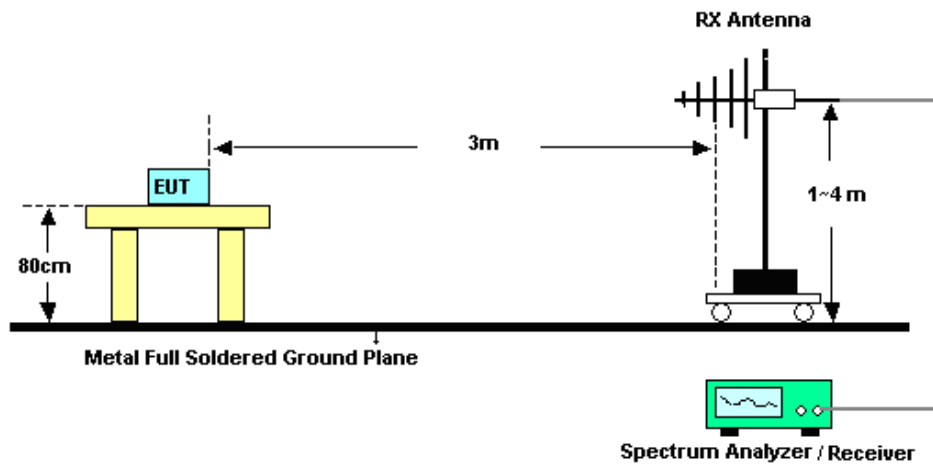
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-19.06dB) derived from $20\log(\text{Duty cycle})$.

3.2.4 Test Setup

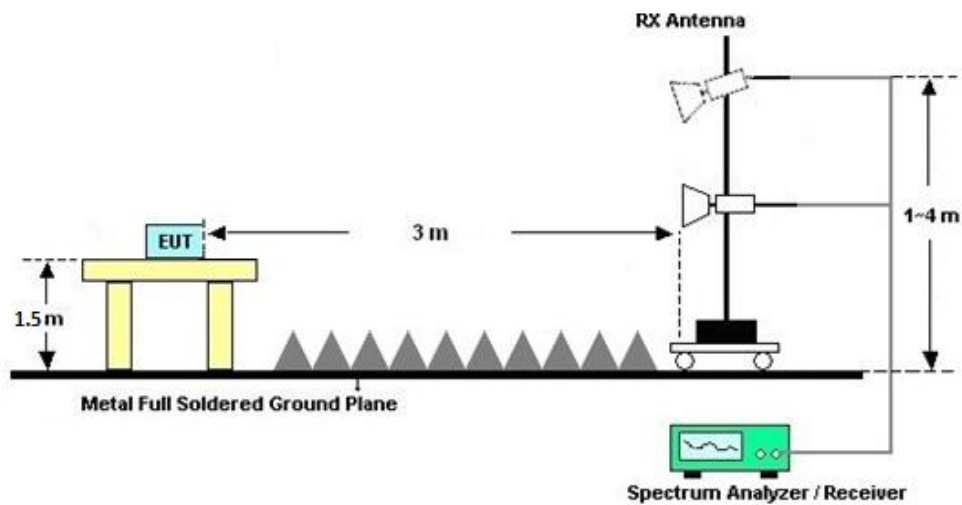
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 Test Deviation

There is no deviation with the original standard.

3.2.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.2.7 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit not reported.

3.2.8 Test Result of Radiated Spurious Emission

Please refer to Appendix C.

3.2.9 Duty Cycle

Please refer to Appendix D.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

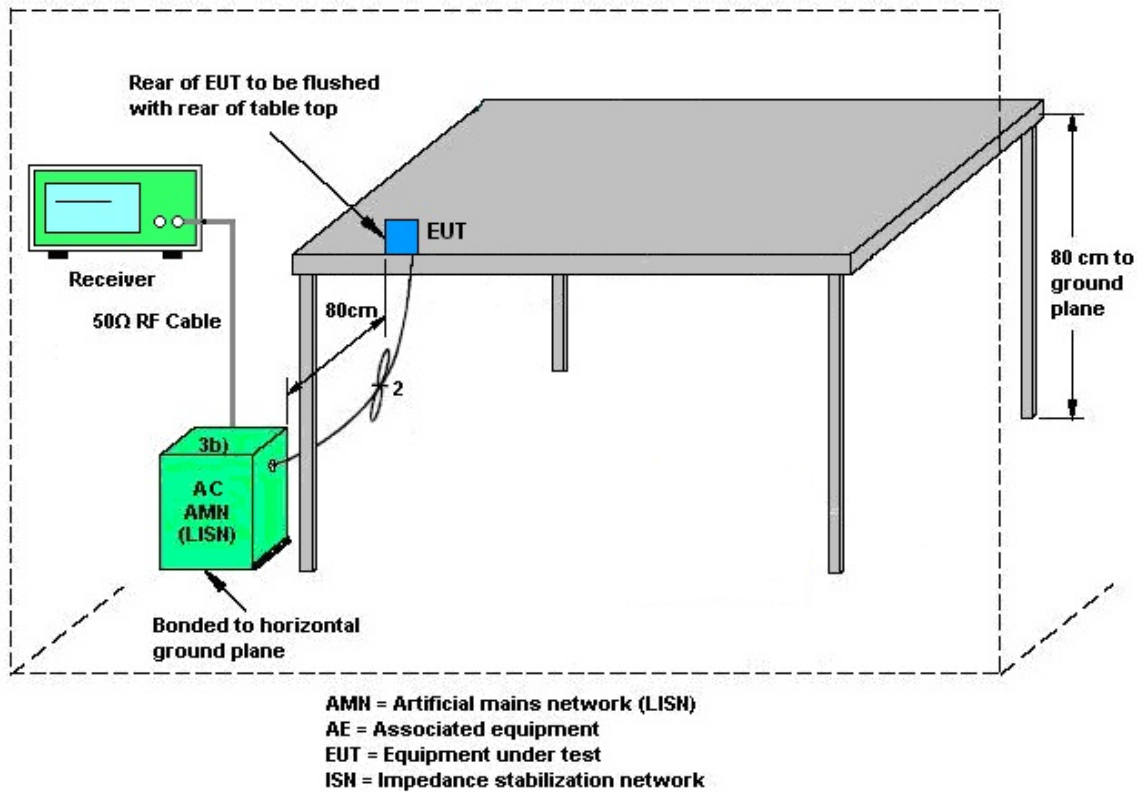
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Apr. 03, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Apr. 03, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Apr. 03, 2025	Jan. 01, 2026	Conducted (TH01-KS)
RF Test System	Tonscend	TS1120-3	N/A	N/A	NCR	Apr. 03, 2025	NCR	Conducted (TH01-KS)
automation control unit	Tonscend	JS0806-2	21H8060473	N/A	NCR	Apr. 03, 2025	NCR	Conducted (TH01-KS)
power control unit	Tonscend	JS0806-4ADC	21J8060495	N/A	NCR	Apr. 03, 2025	NCR	Conducted (TH01-KS)
RF Detector	Mini-Circuits	ZX47-64LN	R2190802125	N/A	Oct. 22, 2024	Apr. 03, 2025	Oct. 21, 2025	Conducted (TH01-KS)
OSCILLOSCOPE	NI	USB-5133	1CA35B3	N/A	May 10, 2024	Apr. 03, 2025	May 09, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	Mar. 23, 2025~Jun. 20, 2025	Jul. 03, 2025	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44GHz, MAX 30dB	Oct. 10, 2024	Mar. 23, 2025~Jun. 20, 2025	Oct. 09, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Mar. 23, 2025~Jun. 20, 2025	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Apr. 18, 2024	Mar. 23, 2025~Jun. 20, 2025	Apr. 17, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Apr. 17, 2025		Apr. 16, 2026	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 11, 2024	Mar. 23, 2025~Jun. 20, 2025	Apr. 10, 2025	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 10, 2025		Apr. 09, 2026	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Mar. 23, 2025~Jun. 20, 2025	Oct. 21, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Mar. 23, 2025~Jun. 20, 2025	Jul. 02, 2025	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	Mar. 23, 2025~Jun. 20, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060843	1Ghz~18Ghz	Jan. 02, 2025	Mar. 23, 2025~Jun. 20, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz~18Ghz	Jan. 02, 2025	Mar. 23, 2025~Jun. 20, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 23, 2025~Jun. 20, 2025	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 23, 2025~Jun. 20, 2025	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 23, 2025~Jun. 20, 2025	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 18, 2024	Apr. 06, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Apr. 06, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Apr. 06, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Apr. 06, 2025	Oct. 08, 2025	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Occupied Channel Bandwidth	$\pm 0.1\%$

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.84 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.02 dB
---	---------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.22 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.34 dB
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----- THE END -----



Appendix A. Conducted test results

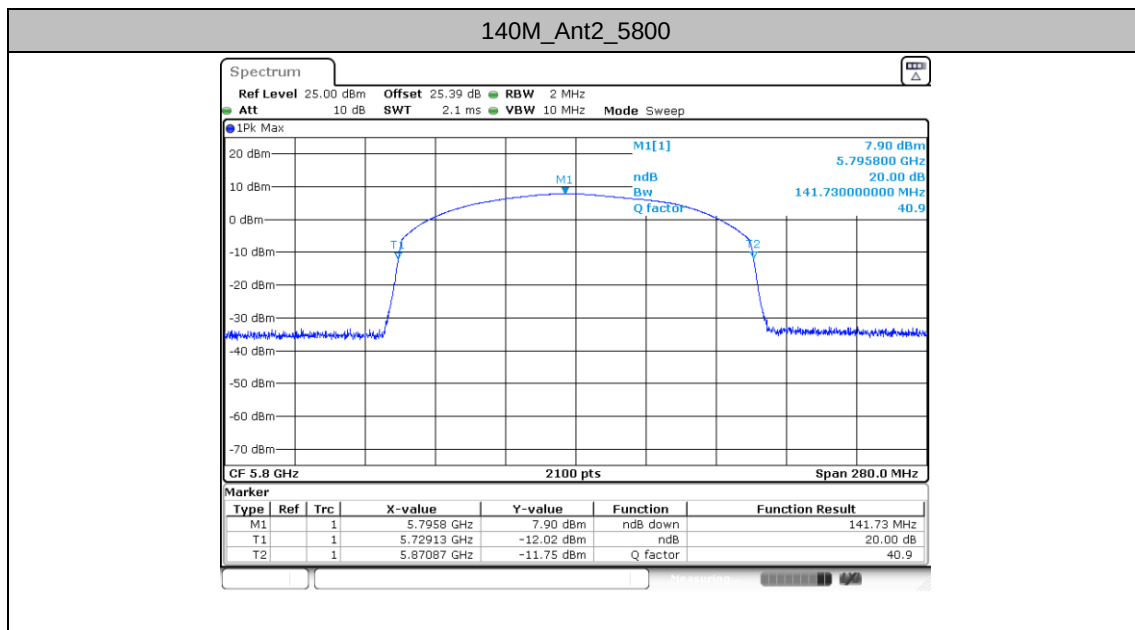


Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
140M	Ant2	5800	141.73	5729.13	5870.87	---	---

Test Graphs



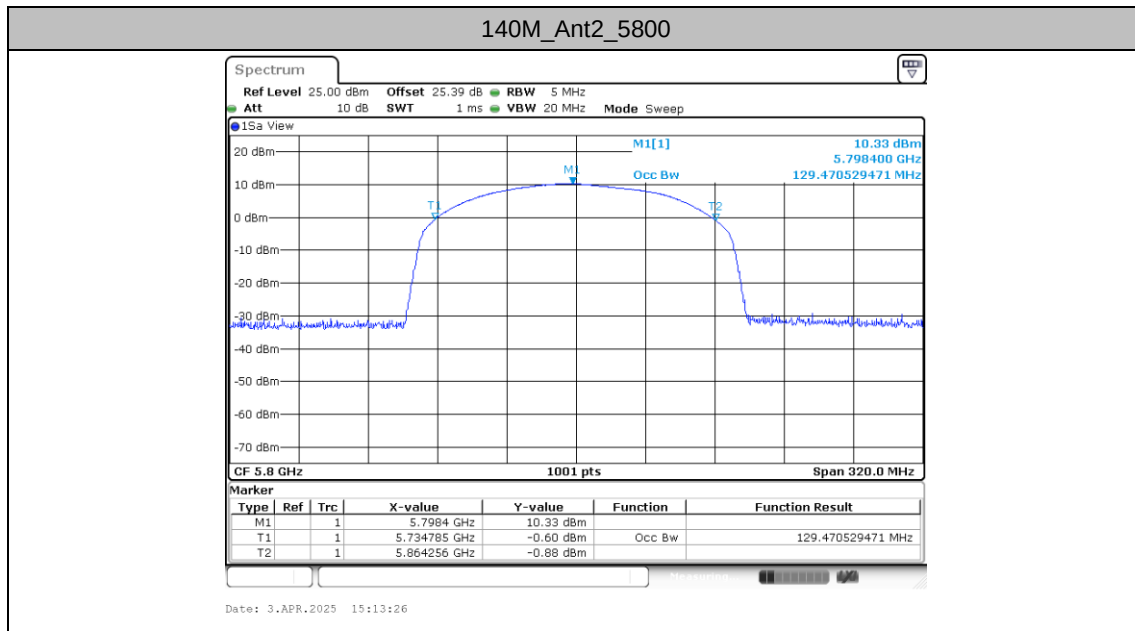


Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
140M	Ant2	5800	129.471	5734.7852	5864.2557	---	---

Test Graphs

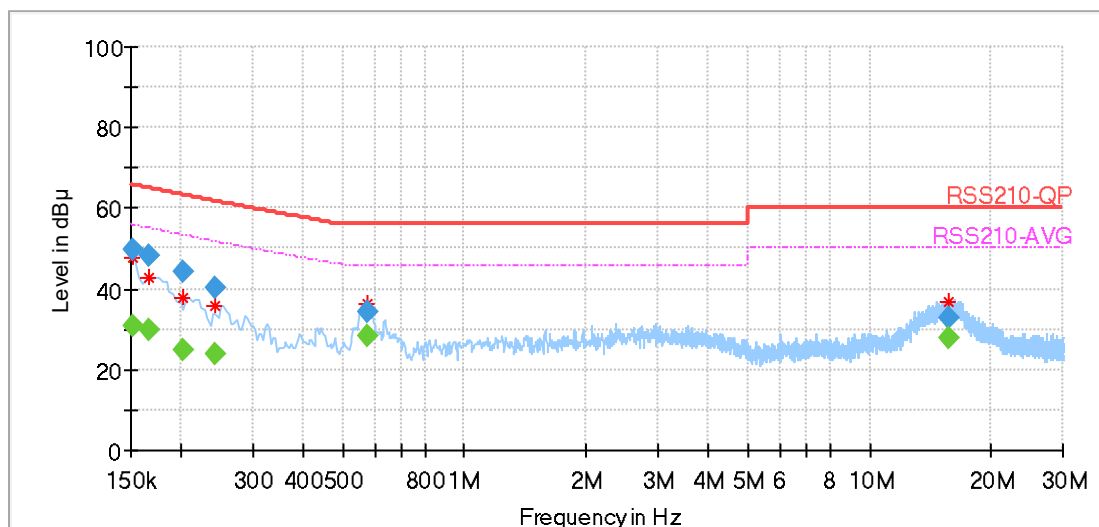




Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

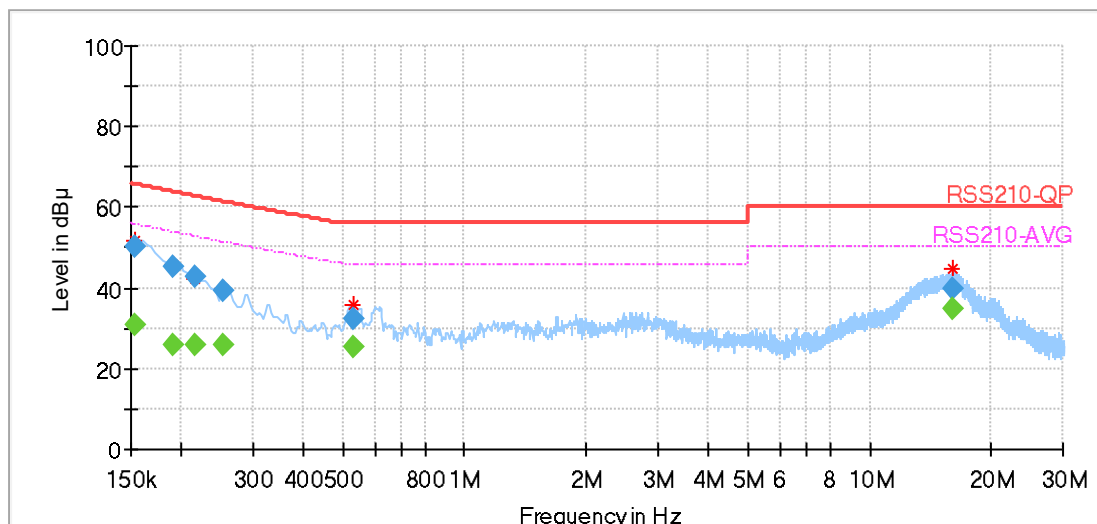


Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.64	55.86	25.22	L1	OFF	20.1
0.152250	49.94	---	65.87	15.92	L1	OFF	20.1
0.167119	---	30.07	55.02	24.95	L1	OFF	20.0
0.167119	48.43	---	65.03	16.60	L1	OFF	20.0
0.200700	---	24.90	53.40	28.50	L1	OFF	20.0
0.200700	44.10	---	63.43	19.33	L1	OFF	20.0
0.241744	---	23.68	51.80	28.12	L1	OFF	19.9
0.241744	40.25	---	61.84	21.59	L1	OFF	19.9
0.575362	---	28.18	46.00	17.82	L1	OFF	19.8
0.575362	34.37	---	56.00	21.63	L1	OFF	19.8
15.673538	---	27.91	50.00	22.09	L1	OFF	20.1
15.673538	32.61	---	60.00	27.39	L1	OFF	20.1



Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152962	---	30.81	55.82	25.01	N	OFF	20.2
0.152962	50.07	---	65.82	15.76	N	OFF	20.2
0.190275	---	26.05	53.87	27.81	N	OFF	20.2
0.190275	45.51	---	63.89	18.39	N	OFF	20.2
0.216394	---	25.75	52.75	26.99	N	OFF	20.2
0.216394	42.72	---	62.78	20.06	N	OFF	20.2
0.253706	---	26.12	51.39	25.28	N	OFF	20.1
0.253706	39.41	---	61.43	22.02	N	OFF	20.1
0.531356	---	25.17	46.00	20.83	N	OFF	19.9
0.531356	32.52	---	56.00	23.48	N	OFF	19.9
16.020138	---	34.83	50.00	15.17	N	OFF	20.2
16.020138	39.82	---	60.00	20.18	N	OFF	20.2



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jake	Temperature :	22 ~ 23 °C
		Relative Humidity :	41 ~ 42 %

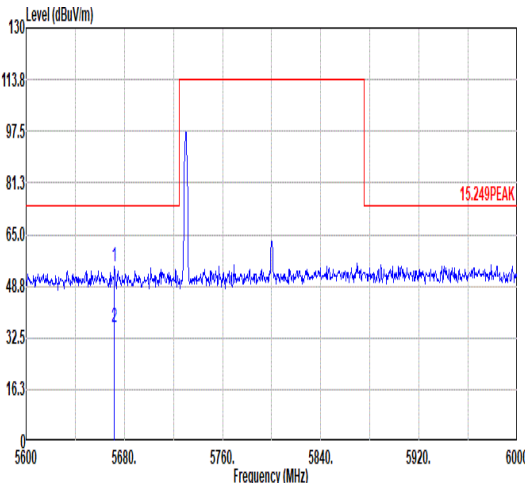
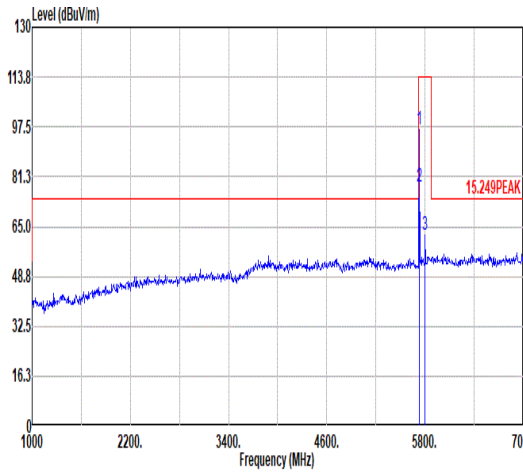
Radiated Spurious Emission Test Modes

Mode	Band	Antenna	BW	Channel	Frequency	Remark
Mode 1	Low Power Wideband Radio in Wi-Fi 5GHz	2	140 MHz	Low	5730MHz	-
Mode 2	Low Power Wideband Radio in Wi-Fi 5GHz	2	140 MHz	Middle	5800MHz	-
Mode 3	Low Power Wideband Radio in Wi-Fi 5GHz	2	140 MHz	High	5870MHz	-

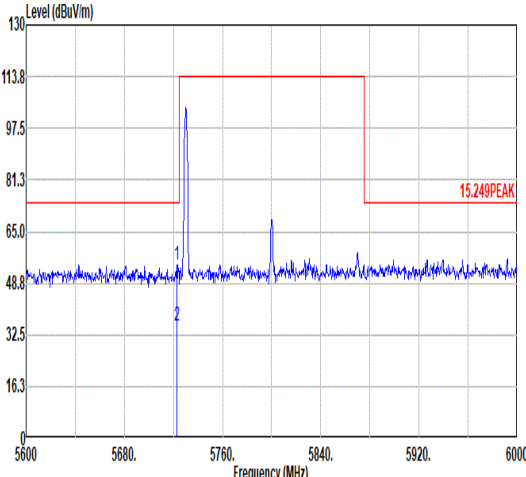
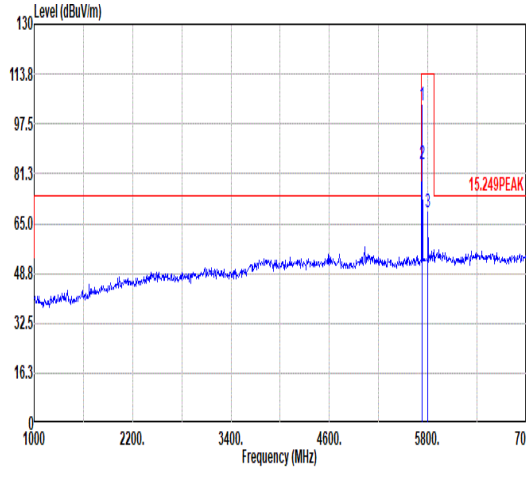
Summary of each worse mode

Mode	Band	BW	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5730	103.43	114.00	-10.57	V	PEAK	Pass	Fundamental
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5730	84.37	94.00	-9.63	V	AVERAGE	Pass	Fundamental
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	11460.00	45.67	74.00	-28.33	H	PEAK	Pass	Harmonic
2	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5800	106.23	114.00	-7.77	V	PEAK	Pass	Fundamental
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5800	87.17	94.00	-6.83	V	AVERAGE	Pass	Fundamental
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	11600.00	46.57	74.00	-27.43	V	PEAK	Pass	Harmonic
3	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5870	105.37	114.00	-8.63	V	PEAK	Pass	Fundamental
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5870	86.31	94.00	-7.69	V	AVERAGE	Pass	Fundamental
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	11740.00	46.94	74.00	-27.06	H	PEAK	Pass	Harmonic

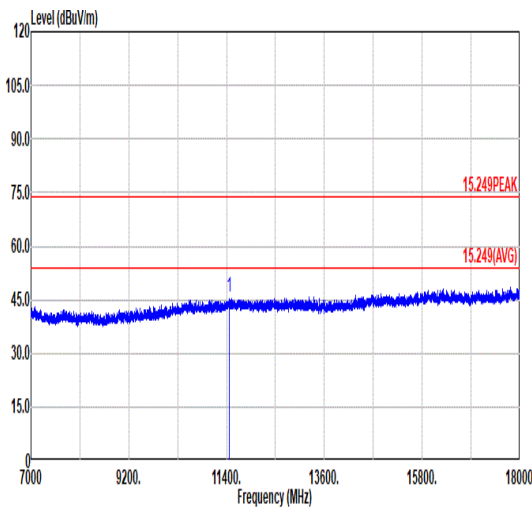
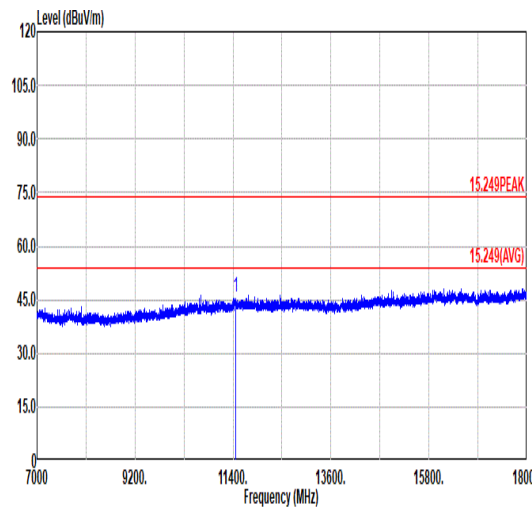


Mode	1																																																																																																																																										
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Mode	Low Power Wideband Radio in Wi-Fi 5GHz 140M _5730MHz																																																																																																																																										
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Pol.	Horizontal						Fundamental																																																																																																																																				
Peak	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5672.00</td><td>54.75</td><td>74.00</td><td>-19.25</td><td>41.76</td><td>34.56</td><td>10.38</td><td>31.95</td><td>0.00</td><td>100</td><td>278</td><td>PEAK</td></tr><tr><td>2</td><td>5672.00</td><td>35.69</td><td>54.00</td><td>-18.31</td><td>22.70</td><td>34.56</td><td>10.38</td><td>31.95</td><td>0.00</td><td>100</td><td>278</td><td>AVERAGE</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5672.00	54.75	74.00	-19.25	41.76	34.56	10.38	31.95	0.00	100	278	PEAK	2	5672.00	35.69	54.00	-18.31	22.70	34.56	10.38	31.95	0.00	100	278	AVERAGE	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5730.00</td><td>96.84</td><td>114.00</td><td>-17.16</td><td>83.86</td><td>34.50</td><td>10.43</td><td>31.95</td><td>0.00</td><td>100</td><td>278</td><td>PEAK</td></tr><tr><td>2</td><td>5730.00</td><td>77.78</td><td>94.00</td><td>-16.22</td><td>64.80</td><td>34.50</td><td>10.43</td><td>31.95</td><td>0.00</td><td>100</td><td>278</td><td>AVERAGE</td></tr><tr><td>3</td><td>5800.00</td><td>62.28</td><td>114.00</td><td>-51.72</td><td>48.83</td><td>34.70</td><td>10.50</td><td>31.75</td><td>0.00</td><td>100</td><td>278</td><td>Peak</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5730.00	96.84	114.00	-17.16	83.86	34.50	10.43	31.95	0.00	100	278	PEAK	2	5730.00	77.78	94.00	-16.22	64.80	34.50	10.43	31.95	0.00	100	278	AVERAGE	3	5800.00	62.28	114.00	-51.72	48.83	34.70	10.50	31.75	0.00	100	278	Peak
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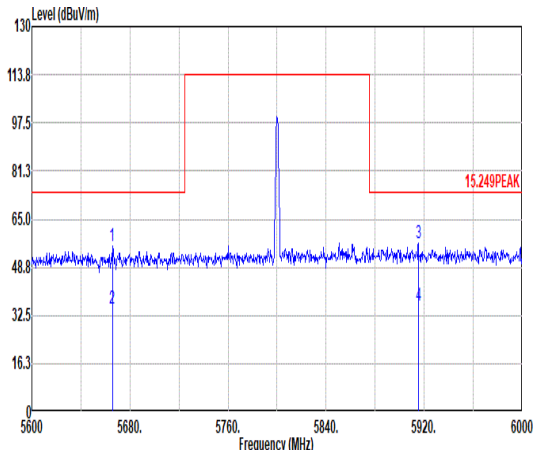
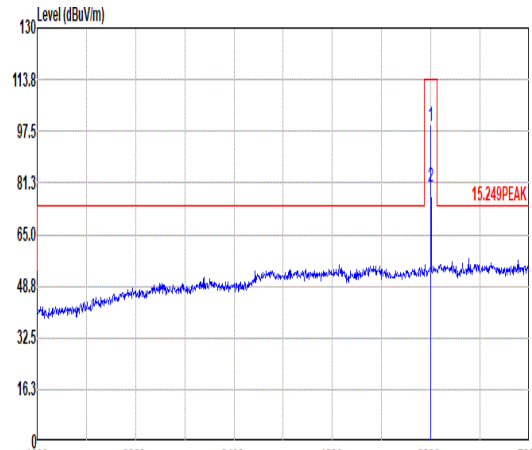


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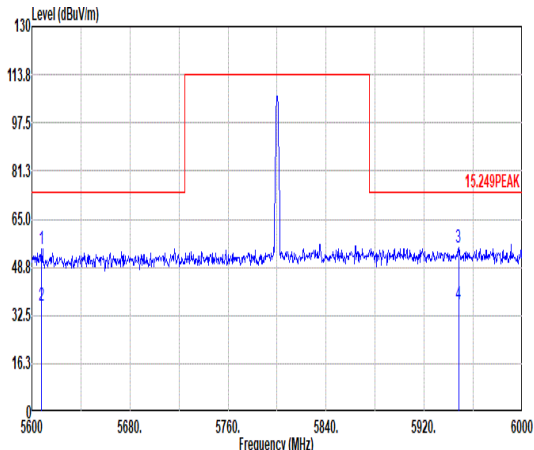
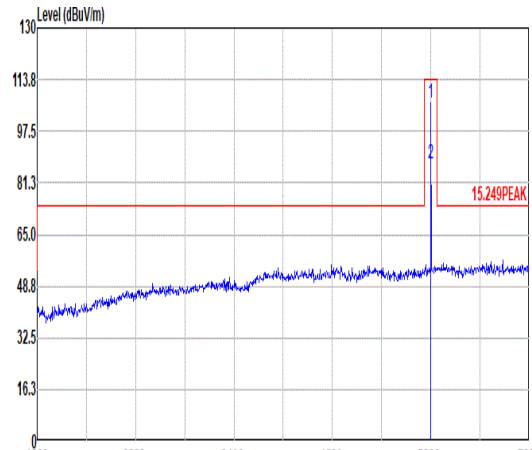


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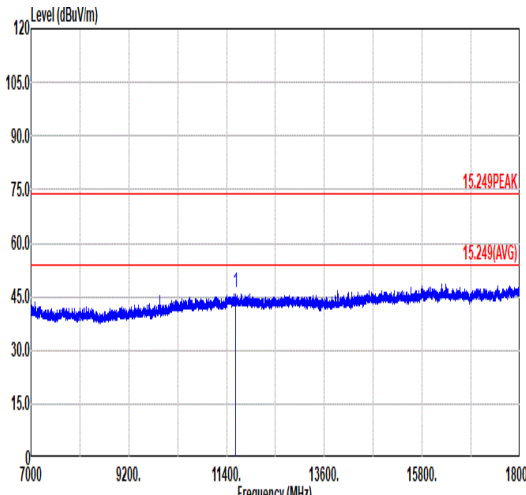
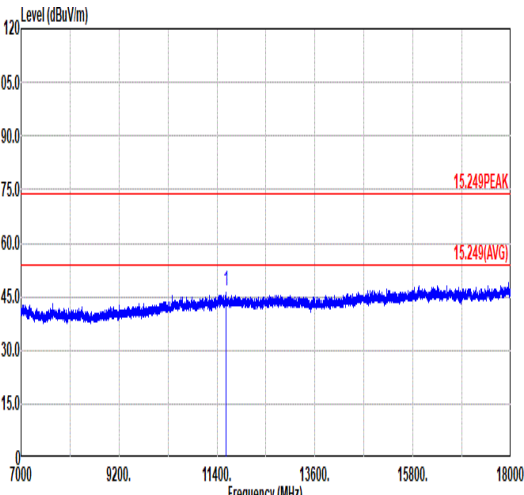


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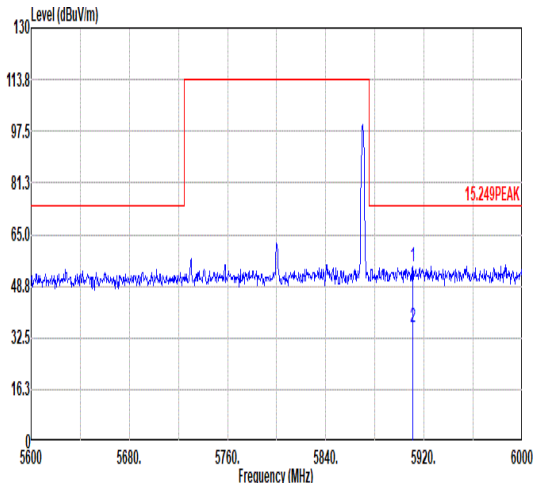
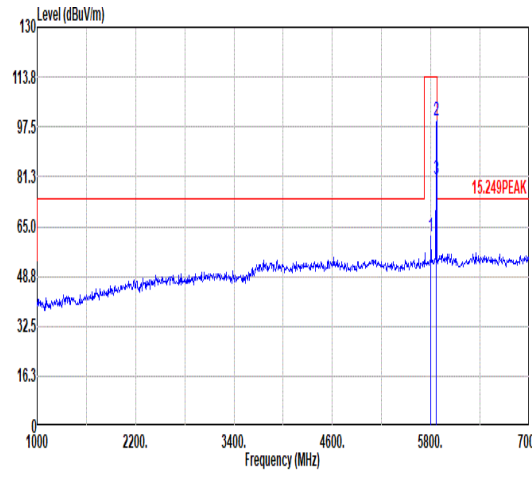


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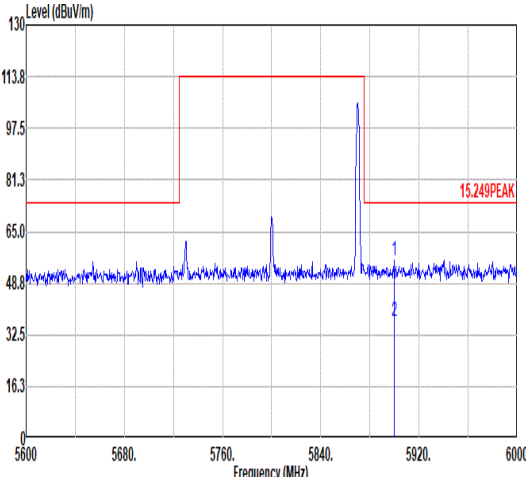
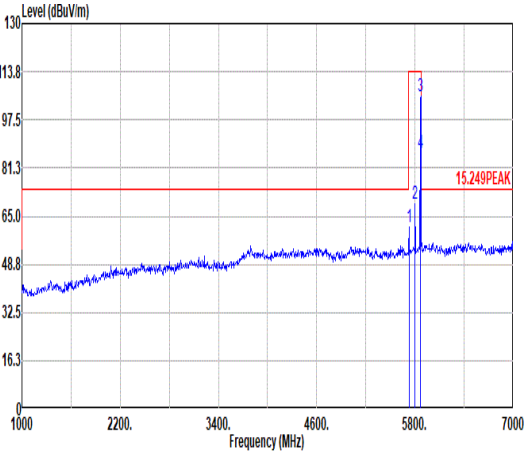


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1	5800.00	61.82	114.00	-52.18	48.37	34.70	10.50	31.75	0.00	246	271 Peak																																																																																																																													
2	5870.00	99.48	114.00	-14.52	85.87	34.94	10.53	31.86	0.00	246	271 PEAK																																																																																																																													
3	5870.00	88.42	94.00	-13.58	66.81	34.94	10.53	31.86	0.00	246	271 AVERAGE																																																																																																																													

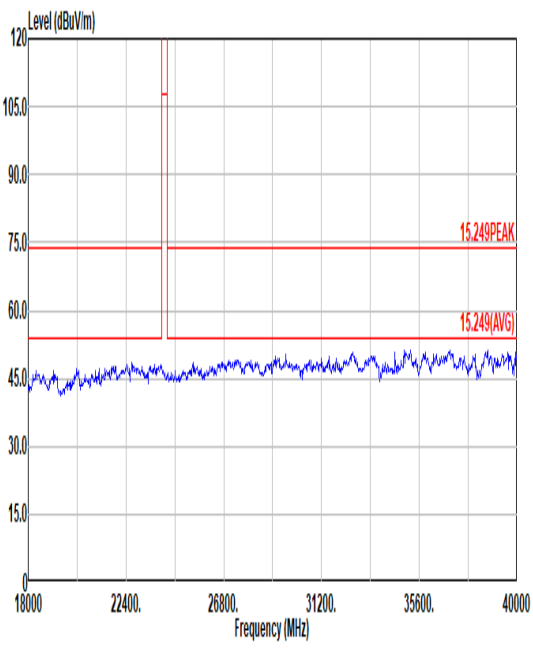
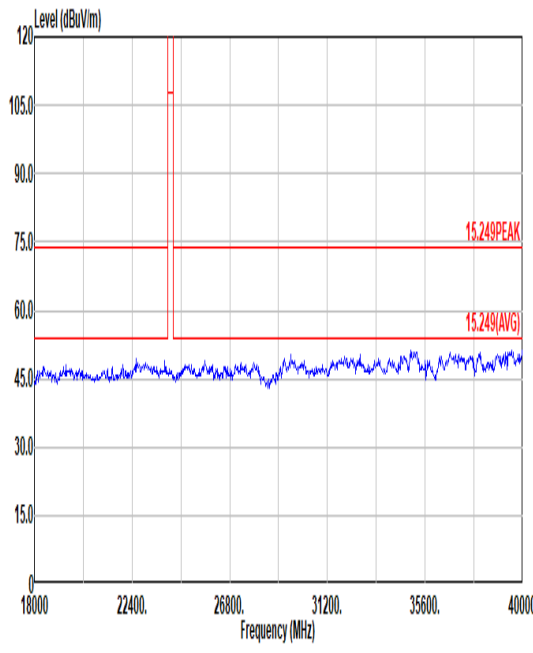


Mode	3																																																																																											
	Band Edge																																																																																											
	Low Power Wideband Radio in Wi-Fi 5GHz 140M _5870MHz																																																																																											
ANT	2																																																																																											
Pol.	Vertical																																																																																											
Peak Avg																																																																																												
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5899.60</td><td>55.91</td><td>74.00</td><td>-18.09</td><td>42.27</td><td>35.00</td><td>10.55</td><td>31.91</td><td>0.00</td><td>104</td><td>249 PEAK</td></tr><tr><td>2</td><td>5899.60</td><td>36.85</td><td>54.00</td><td>-17.15</td><td>23.21</td><td>35.00</td><td>10.55</td><td>31.91</td><td>0.00</td><td>104</td><td>249 AVERAGE</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5899.60	55.91	74.00	-18.09	42.27	35.00	10.55	31.91	0.00	104	249 PEAK	2	5899.60	36.85	54.00	-17.15	23.21	35.00	10.55	31.91	0.00	104	249 AVERAGE																								
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																		
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																		
1	5899.60	55.91	74.00	-18.09	42.27	35.00	10.55	31.91	0.00	104	249 PEAK																																																																																	
2	5899.60	36.85	54.00	-17.15	23.21	35.00	10.55	31.91	0.00	104	249 AVERAGE																																																																																	
Fundamental																																																																																												
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5728.00</td><td>61.27</td><td>114.00</td><td>-52.73</td><td>48.29</td><td>34.50</td><td>10.43</td><td>31.95</td><td>0.00</td><td>104</td><td>249 Peak</td></tr><tr><td>2</td><td>5800.00</td><td>68.93</td><td>114.00</td><td>-45.07</td><td>55.48</td><td>34.70</td><td>10.50</td><td>31.75</td><td>0.00</td><td>104</td><td>249 Peak</td></tr><tr><td>3</td><td>5870.00</td><td>105.37</td><td>114.00</td><td>-8.63</td><td>91.76</td><td>34.94</td><td>10.53</td><td>31.86</td><td>0.00</td><td>104</td><td>249 PEAK</td></tr><tr><td>4</td><td>5870.00</td><td>86.31</td><td>94.00</td><td>-7.69</td><td>72.70</td><td>34.94</td><td>10.53</td><td>31.86</td><td>0.00</td><td>104</td><td>249 AVERAGE</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5728.00	61.27	114.00	-52.73	48.29	34.50	10.43	31.95	0.00	104	249 Peak	2	5800.00	68.93	114.00	-45.07	55.48	34.70	10.50	31.75	0.00	104	249 Peak	3	5870.00	105.37	114.00	-8.63	91.76	34.94	10.53	31.86	0.00	104	249 PEAK	4	5870.00	86.31	94.00	-7.69	72.70	34.94	10.53	31.86	0.00	104	249 AVERAGE
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																		
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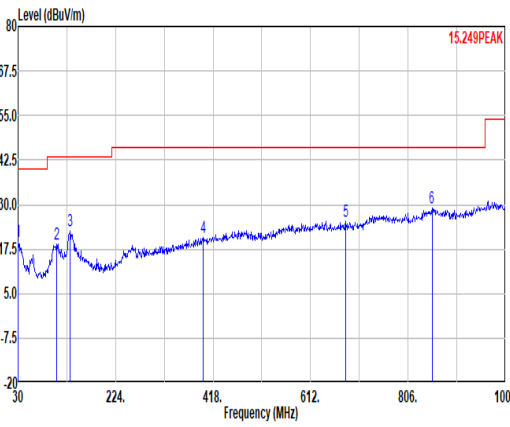
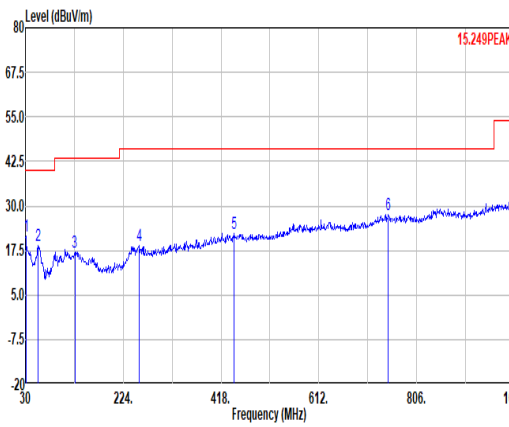


Mode	3																																																																																							
	Harmonic																																																																																							
	Low Power Wideband Radio in Wi-Fi 5GHz 140M _5870MHz																																																																																							
ANT	2																																																																																							
Pol.	Horizontal								Vertical																																																																															
Peak Avg	Horizontal Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a blue signal line fluctuating around 45 dBuV/m, with a red horizontal line at 75.0 dBuV/m labeled 15.249PEAK and another red horizontal line at 58.13 dBuV/m labeled 15.249(AVG). A vertical blue line marks the frequency 11740.00 MHz. <table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th></tr><tr><td>1 11740.00</td><td>46.94</td><td>74.00</td><td>-27.06</td><td>58.13</td><td>38.54</td><td>14.78</td><td>64.51</td><td>0.00</td></tr></table> Remark: --- PEAK								Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	1 11740.00	46.94	74.00	-27.06	58.13	38.54	14.78	64.51	0.00	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a blue signal line fluctuating around 45 dBuV/m, with a red horizontal line at 75.0 dBuV/m labeled 15.249PEAK and another red horizontal line at 58.13 dBuV/m labeled 15.249(AVG). A vertical blue line marks the frequency 11740.00 MHz. <table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th></tr><tr><td>1 11740.00</td><td>46.14</td><td>74.00</td><td>-27.86</td><td>57.33</td><td>38.54</td><td>14.78</td><td>64.51</td><td>0.00</td></tr></table> Remark: --- PEAK								Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	1 11740.00	46.14	74.00	-27.86	57.33	38.54	14.78	64.51	0.00
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																															
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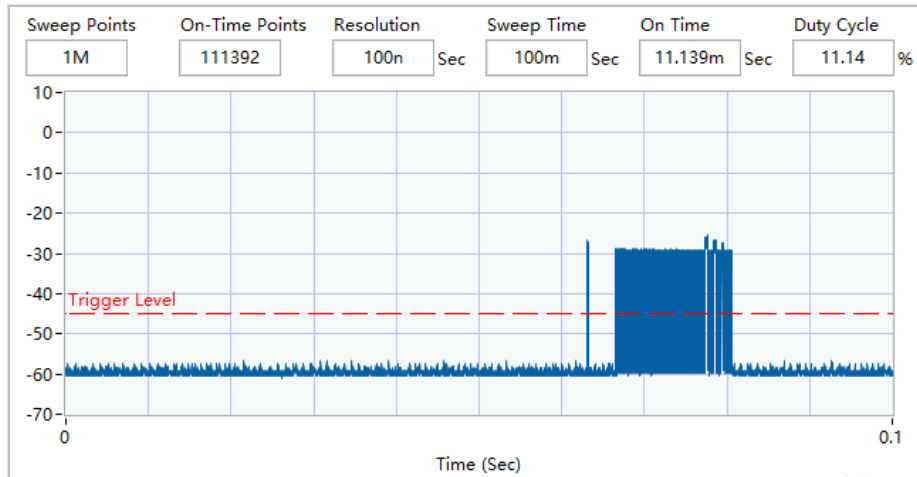


Mode	2	
	18G-40G	
	Low Power Wideband Radio in Wi-Fi 5GHz 140M _5800MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg		



Mode	2																																																																																																																			
	30-1G																																																																																																																			
	Low Power Wideband Radio in Wi-Fi 5GHz 140M _5800MHz																																																																																																																			
ANT	2																																																																																																																			
Pol.	Horizontal																																																																																																																			
Peak																																																																																																																				
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																										
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																									
	1	30.00	19.00	40.00	-20.20	26.04	25.14	0.83	32.21	0.00	---	Peak																																																																																																								
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																											
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Appendix D. Duty Cycle Plots



Note:

1. Duty cycle = on time/100ms = 11.139 / 100 = 11.14 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -19.06 \text{ dB}$
3. End user operational worst case duty cycle measured by using a diode detector and oscilloscope.