RF TEST REPORT

Applicant	Honor Device Co., Ltd.
FCC ID	2AYGCVNE-LX1
Product	Smart Phone
Model	VNE-LX1
Report No.	R2208A0708-R6V1
Issue Date	August 15, 2022

TA Technology (Shanghai) Co., Ltd. Tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Approved by: Xu Kai

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TABLE OF CONTENT

1. Test Laboratory 5
1.1. Notes of the test report 5
1.2. Test facility 5
1.3. Testing Location 5
2. General Description of Equipment under Test 6
2.1. Applicant and Manufacturer Information 6
2.2. General information 6
3. Applied Standards 8
4. Test Configuration 9
5. Test Case Results 10
5.1. Maximum output power 10
5.2. 99% Bandwidth and 6dB Bandwidth 13
5.3. Band Edge 29
5.4. Power Spectral Density 41
5.5. Spurious RF Conducted Emissions 52
5.6. Unwanted Emission 67
5.7. Conducted Emission 153
6. Main Test Instruments 158
ANNEX A: The EUT Appearance 159
ANNEX B: Test Setup Photos 160
ANNEX C: Product Change Description 161

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	August 10, 2022
Rev.1	Update information.	August 15, 2022
Note: This revised report (Report No. R2208A0708-R6V1) supersedes and replaces the previously issued report (Report No. R2208A0708-R6). Please discard or destroy the previously issued report and dispose of it accordingly.		

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Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Maximum output power	15.247(b)(3)	PASS
2	6 dB bandwidth	15.247(a)(2)	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Unwanted Emissions	15.247(d),15.205,15.209	PASS
7	Conducted Emissions	15.207	PASS
Date of Testing: July 9, 2022 ~ July 21, 2022 Date of Sample Received: July 5, 2022			
Note: All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

VNE-LX1 (Report No.: R2208A0708-R6V1) is a variant model of VNE-LX3 (Report No.: R2207A0619-R6V1). Test values all duplicated from Original for variant. There is no tested in this report.

The difference between VNE-LX3 and VNE-LX1 are show in the below table:

/	Model	VNE-LX3	VNE-LX1
Licensed Frequency	LTE Band	B2/B4/B5/B7/B13/B26/B38/B66	B5/B7
	UMTS Band	B2/B4/B5	B2/B5
Unlicensed Frequency	NFC	Not support	Support
Software	Version	2.1.0.34(SP02C900E5R1P1)	2.1.0.57(SP03C900E5R1P1)
RF	RF circuit	The RF circuit of the same frequency is the same.	The RF circuit of the same frequency is the same. The different frequency changed by hardware and some RF parameters. Changes are followed: DeleteWB4/LTEB2/B4/B13/B66/B38 SAWS and RF matching.
	Tune-up	The tune-up of the same frequency are the same.	The tune-up of the same frequency are the same.
Others		The same	The same

The detailed product change description please refers to the Difference Declaration Letter.

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1. Test Laboratory

1.1. Notes of the test report

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1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City:	Shanghai
Post code:	201201
Country:	P. R. China
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Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
E-mail:	xukai@ta-shanghai.com

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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

2.2. General information

EUT Description	
Model	VNE-LX1
SN	A96BNU2625200516
Hardware Version	HL1VNEM
Software Version	2.1.0.57(SP03C900E5R1P1)
Power Supply	Battery / AC adapter
Antenna Type	Internal Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	-2.1dBi
additional beamforming gain	NA
Operating Frequency Range(s)	802.11b/g/n(HT20: 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz Bluetooth LE V5.1: 2402 ~2480 MHz
Modulation Type	802.11b: DSSS 802.11g/n(HT20/HT40): OFDM Bluetooth LE: GFSK
Max. Power	Wi-Fi 2.4G: 17.62dBm Bluetooth LE: 6.90dBm

EUT Accessory			
Accessory	**Model**	**Manufacture**	**No.**
Adapter	HW-050200E02	Honor Device Co., Ltd. (Manufacturer: Huntkey)	1
		Honor Device Co., Ltd. (Manufacturer: BYD)	2
	HW-050200B02	Honor Device Co., Ltd. (Manufacturer: Huntkey)	3
		Honor Device Co., Ltd.	4

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		(Manufacturer: BYD)	
	HW-050200U02	Honor Device Co., Ltd. (Manufacturer: Huntkey)	5
		Honor Device Co., Ltd. (Manufacturer: BYD)	6
Battery	HB496590EFW	Honor Device Co., Ltd. (Manufacturer: SCUD)	1
		Honor Device Co., Ltd. (Manufacturer: NVT)	2
	HB496590EFW-F	Honor Device Co., Ltd. (Manufacturer: SCUD)	3
		Honor Device Co., Ltd. (Manufacturer: NVT)	4
Earphone	MEND1532B528C00	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.	1
	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.	2
Data Cable	RY0002	NingBo Broad Telecommunication Co., Ltd.	1
	AU2-CRO013HF	Freeport Resources Enterprises Corp.	2
	2120-00001-0	MING JI ELECTRONICS CO., LTD.	3
	L125UC007-CS-H	LUXSHARE PRECISION INDUSTRY CO., LTD.	4
	CUDU01B-HC451-EH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	5

Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.
2. There is more than one Adapter/Battery/Data cable/Earphone, each one should be applied throughout the compliance test respectively, and however, only the worst case (Adapter 6 / Battery 3 /Data cable 1/ Earphone 1) will be recorded in this report.

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3. Applied Standards

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

Test standards:

FCC CFR47 Part 15C (2021) Radio Frequency Devices

ANSI C63.10-2013

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

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4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate
Bluetooth(Low Energy)	1Mbps, 2Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

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5. Test Case Results

5.1. Maximum output power

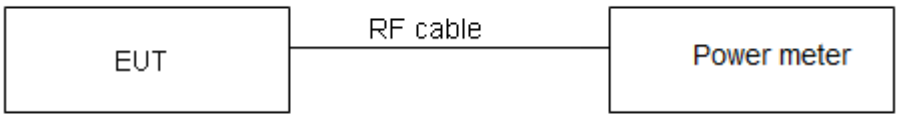
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Average Output Power	≤ 1W (30dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.44 dB.

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Test Results

Test Mode	Duty cycle	Duty cycle correction Factor(dB)
802.11b	1.00	0.00
802.11g	0.97	0.13
802.11n HT20	0.97	0.13
802.11n HT40	0.94	0.28
Bluetooth LE (1M)	0.85	0.70
Bluetooth LE (2M)	0.57	2.43
Note: when Duty cycle⩾0.98, Duty cycle correction Factor not required.		

Test Mode	Carrier frequency (MHz))/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH1	17.62	17.62	30	PASS
	2437/CH6	17.22	17.22	30	PASS
	2462/CH11	17.51	17.51	30	PASS
802.11g	2412/CH1	11.97	12.10	30	PASS
	2417/CH2	13.91	14.04	30	PASS
	2422/CH3	15.37	15.50	30	PASS
	2427/CH4	16.11	16.24	30	PASS
	2432/CH5	17.04	17.17	30	PASS
	2437/CH6	16.98	17.11	30	PASS
	2442/CH7	16.61	16.74	30	PASS
	2447/CH8	15.68	15.81	30	PASS
	2452/CH9	13.84	13.97	30	PASS
	2457/CH10	11.82	11.95	30	PASS
	2462/CH11	10.39	10.52	30	PASS
802.11n HT20	2412/CH1	11.91	12.04	30	PASS
	2417/CH2	13.85	13.98	30	PASS
	2422/CH3	15.20	15.33	30	PASS
	2427/CH4	15.94	16.07	30	PASS
	2432/CH5	16.93	17.06	30	PASS
	2437/CH6	16.79	16.92	30	PASS
	2442/CH7	16.43	16.56	30	PASS
	2447/CH8	15.49	15.62	30	PASS
	2452/CH9	13.68	13.81	30	PASS
	2457/CH10	11.70	11.83	30	PASS
	2462/CH11	10.28	10.41	30	PASS
802.11n HT40	2422/CH3	7.36	7.64	30	PASS
	2427/CH4	8.18	8.46	30	PASS
	2432/CH5	10.30	10.58	30	PASS
	2437/CH6	11.23	11.51	30	PASS

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	2442/CH7	9.91	10.19	30	PASS
	2447/CH8	8.44	8.72	30	PASS
	2452/CH9	7.49	7.77	30	PASS
Bluetooth (Low Energy) (1M)	2402/CH0	5.64	6.34	30	PASS
	2440/CH19	6.20	6.90	30	PASS
	2480/CH39	5.36	6.06	30	PASS
Bluetooth (Low Energy) (2M)	2402/CH0	3.92	6.35	30	PASS
	2440/CH19	4.42	6.85	30	PASS
	2480/CH39	3.61	6.04	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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5.2. 99% Bandwidth and 6dB Bandwidth

Ambient condition

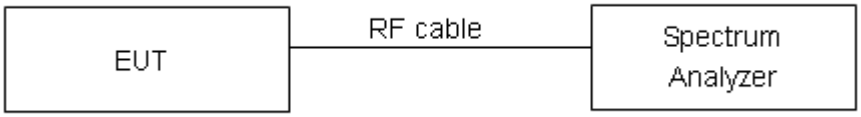
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer.
Dector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

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Test Results:

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412/CH1	12.847	8.048	500	PASS
	2437/CH6	12.709	8.013	500	PASS
	2462/CH11	12.968	8.540	500	PASS
802.11g	2412/CH1	16.587	15.089	500	PASS
	2417/CH2	16.612	15.416	500	PASS
	2422/CH3	16.624	14.651	500	PASS
	2427/CH4	16.636	15.433	500	PASS
	2432/CH5	16.668	13.992	500	PASS
	2437/CH6	16.678	13.797	500	PASS
	2442/CH7	16.595	14.273	500	PASS
	2447/CH8	16.501	15.089	500	PASS
	2452/CH9	16.433	14.669	500	PASS
	2457/CH10	16.515	15.222	500	PASS
	2462/CH11	16.630	13.858	500	PASS
802.11n HT20	2412/CH1	17.636	15.115	500	PASS
	2417/CH2	17.663	17.537	500	PASS
	2422/CH3	17.663	15.685	500	PASS
	2427/CH4	17.737	15.140	500	PASS
	2432/CH5	17.781	16.053	500	PASS
	2437/CH6	17.765	15.305	500	PASS
	2442/CH7	17.682	12.667	500	PASS
	2447/CH8	17.601	15.647	500	PASS
	2452/CH9	17.564	14.103	500	PASS
	2457/CH10	17.610	16.697	500	PASS
	2462/CH11	17.674	16.007	500	PASS
802.11n HT40	2422/CH3	36.263	35.687	500	PASS
	2427/CH4	36.303	35.709	500	PASS
	2432/CH5	36.085	34.423	500	PASS
	2437/CH6	35.826	30.018	500	PASS
	2442/CH7	35.622	28.832	500	PASS
	2447/CH8	35.642	28.797	500	PASS
	2452/CH9	35.739	30.020	500	PASS
Bluetooth (Low Energy) (1M)	2402/CH0	1.039	0.652	500	PASS
	2440/CH19	1.040	0.660	500	PASS
	2480/CH39	1.039	0.641	500	PASS
Bluetooth (Low Energy) (2M)	2402/CH0	2.063	1.247	500	PASS
	2440/CH19	2.080	1.227	500	PASS
	2480/CH39	2.075	1.214	500	PASS

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99%bandwidth

802.11b, Carrier frequency (MHz): 2412

802.11g, Carrier frequency (MHz): 2412

802.11b, Carrier frequency (MHz): 2437

802.11g, Carrier frequency (MHz): 2417

802.11b, Carrier frequency (MHz):2462

802.11g, Carrier frequency (MHz): 2422

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802.11g, Carrier frequency (MHz): 2427

802.11g, Carrier frequency (MHz): 2432

802.11g, Carrier frequency (MHz): 2437

802.11g, Carrier frequency (MHz): 2442

802.11g, Carrier frequency (MHz): 2447

802.11g, Carrier frequency (MHz): 2452

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802.11g, Carrier frequency (MHz): 2457

802.11g, Carrier frequency (MHz): 2462

802.11n(HT20), Carrier frequency (MHz): 2412

802.11n(HT20), Carrier frequency (MHz): 2417

802.11n(HT20), Carrier frequency (MHz): 2422

802.11n(HT20), Carrier frequency (MHz): 2427

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802.11n(HT20), Carrier frequency (MHz): 2432

802.11n(HT20), Carrier frequency (MHz): 2437

802.11n(HT20), Carrier frequency (MHz): 2442

802.11n(HT20), Carrier frequency (MHz): 2447

802.11n(HT20), Carrier frequency (MHz): 2452

802.11n(HT20), Carrier frequency (MHz): 2457

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802.11n(HT20), Carrier frequency (MHz): 2462

/

802.11n(HT40), Carrier frequency (MHz): 2422

802.11n(HT40), Carrier frequency (MHz): 2427

802.11n(HT40), Carrier frequency (MHz): 2432

802.11n(HT40), Carrier frequency (MHz): 2437

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802.11n(HT40), Carrier frequency (MHz): 2442

802.11n(HT40), Carrier frequency (MHz): 2447

802.11n(HT40), Carrier frequency (MHz): 2452

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Bluetooth LE (1M) Carrier frequency (MHz): 2402

Bluetooth LE (2M) Carrier frequency (MHz): 2402

Bluetooth LE (1M) Carrier frequency (MHz): 2440

Bluetooth LE (2M) Carrier frequency (MHz): 2440

Bluetooth LE (1M) Carrier frequency (MHz): 2480

Bluetooth LE (2M) Carrier frequency (MHz): 2480

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6 dB bandwidth

802.11b, Carrier frequency (MHz): 2412

802.11g, Carrier frequency (MHz): 2412

802.11b, Carrier frequency (MHz): 2437

802.11g, Carrier frequency (MHz): 2417

802.11b, Carrier frequency (MHz):2462

802.11g, Carrier frequency (MHz): 2422

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802.11g, Carrier frequency (MHz): 2427

802.11g, Carrier frequency (MHz): 2432

802.11g, Carrier frequency (MHz): 2437

802.11g, Carrier frequency (MHz): 2442

802.11g, Carrier frequency (MHz): 2447

802.11g, Carrier frequency (MHz): 2452

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802.11g, Carrier frequency (MHz): 2457

802.11g, Carrier frequency (MHz): 2462

802.11n(HT20), Carrier frequency (MHz): 2412

802.11n(HT20), Carrier frequency (MHz): 2417

802.11n(HT20), Carrier frequency (MHz): 2422

802.11n(HT20), Carrier frequency (MHz): 2427

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802.11n(HT20), Carrier frequency (MHz): 2432

802.11n(HT20), Carrier frequency (MHz): 2437

802.11n(HT20), Carrier frequency (MHz): 2442

802.11n(HT20), Carrier frequency (MHz): 2447

802.11n(HT20), Carrier frequency (MHz): 2452

802.11n(HT20), Carrier frequency (MHz): 2457

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802.11n(HT20), Carrier frequency (MHz): 2462

/

802.11n(HT40), Carrier frequency (MHz): 2422

802.11n(HT40), Carrier frequency (MHz): 2427

802.11n(HT40), Carrier frequency (MHz): 2432

802.11n(HT40), Carrier frequency (MHz): 2437

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802.11n(HT40), Carrier frequency (MHz): 2442

802.11n(HT40), Carrier frequency (MHz): 2447

802.11n(HT40), Carrier frequency (MHz): 2452

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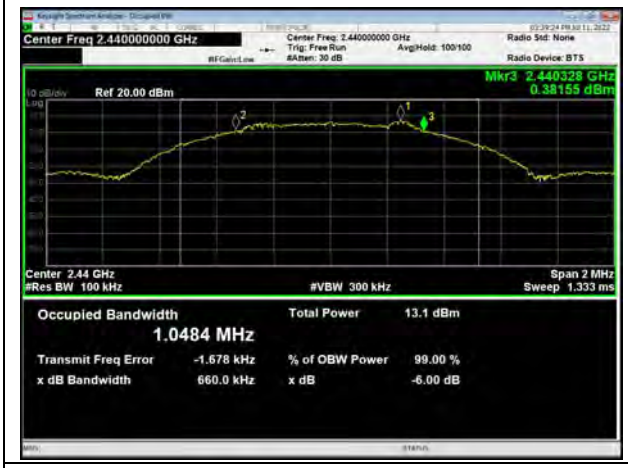
Bluetooth LE (1M) Carrier frequency (MHz): 2402

Bluetooth LE (2M) Carrier frequency (MHz): 2402

Bluetooth LE (1M) Carrier frequency (MHz): 2440



Bluetooth LE (2M) Carrier frequency (MHz): 2440

Bluetooth LE (1M) Carrier frequency (MHz): 2480

Bluetooth LE (2M) Carrier frequency (MHz): 2480

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5.3. Band Edge

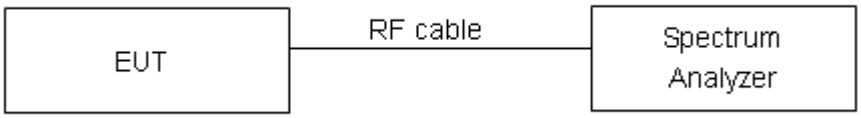
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.” If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

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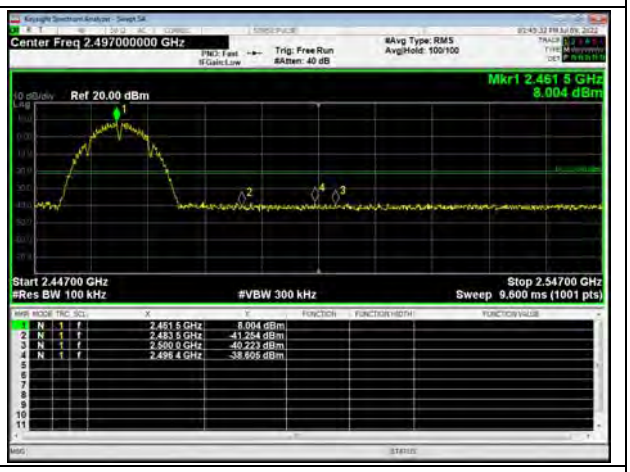
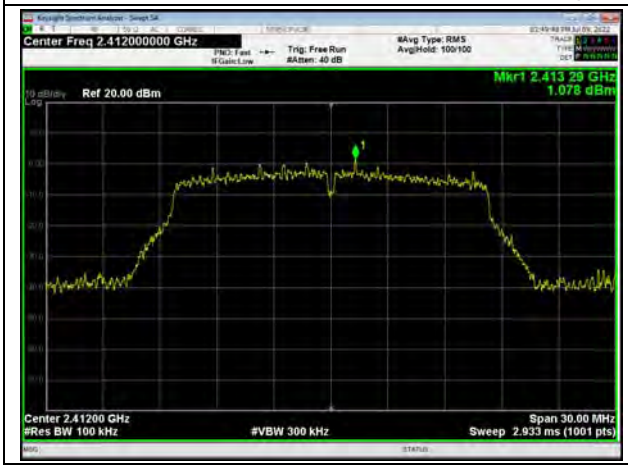
Test Results: PASS

802.11b, Channel No.: 1

802.11b, Channel No.: 11



802.11g, Channel No.: 1



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802.11g, Channel No.: 2

802.11g, Channel No.: 3

802.11g, Channel No.: 4

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802.11g, Channel No.: 5

802.11g, Channel No.: 7

802.11g, Channel No.: 8

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802.11g, Channel No.: 9

802.11g, Channel No.: 10

802.11g, Channel No.: 11

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802.11n(HT20), Channel No.: 1

802.11n(HT20), Channel No.: 2

802.11n(HT20), Channel No.: 3

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802.11n(HT20), Channel No.: 4

802.11n(HT20), Channel No.: 5

802.11n(HT20), Channel No.: 7

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802.11n(HT20), Channel No.: 8

802.11n(HT20), Channel No.: 9

802.11n(HT20), Channel No.: 10

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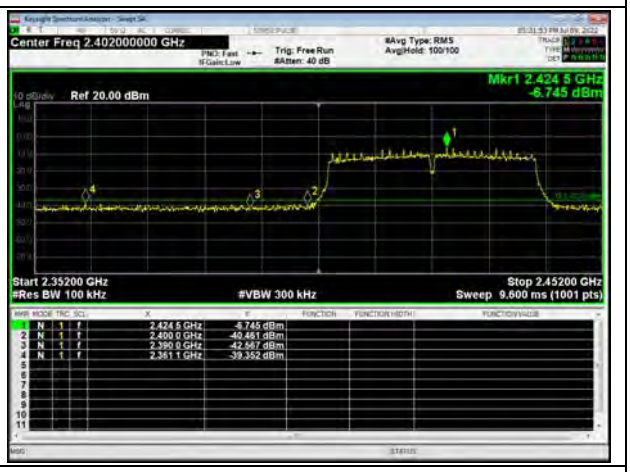
802.11n(HT20), Channel No.: 11

802.11n(HT40), Channel No. 3



802.11n(HT40), Channel No. 4

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802.11n(HT40), Channel No. 5

802.11n(HT40), Channel No. 7

802.11n(HT40), Channel No. 8

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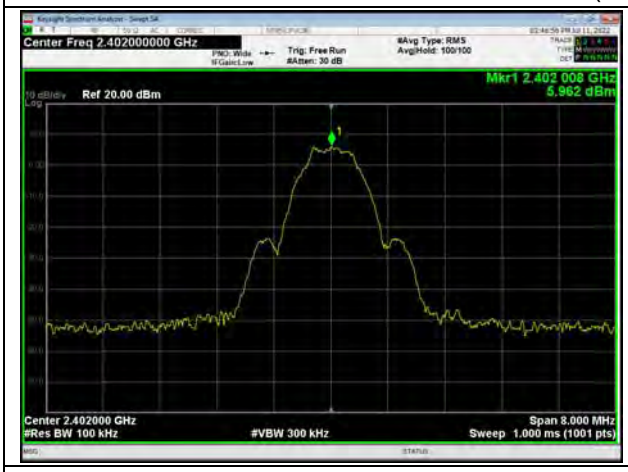
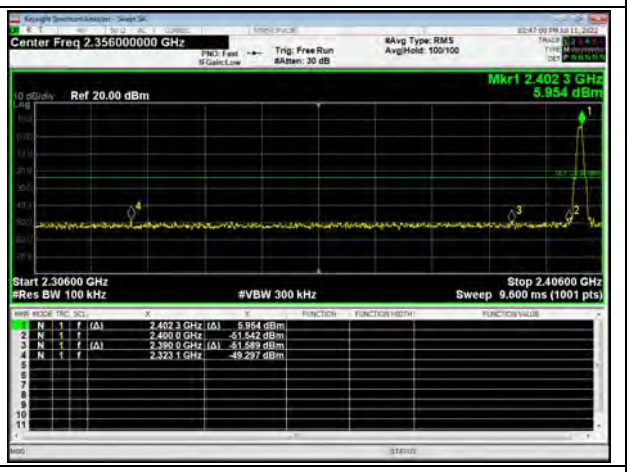
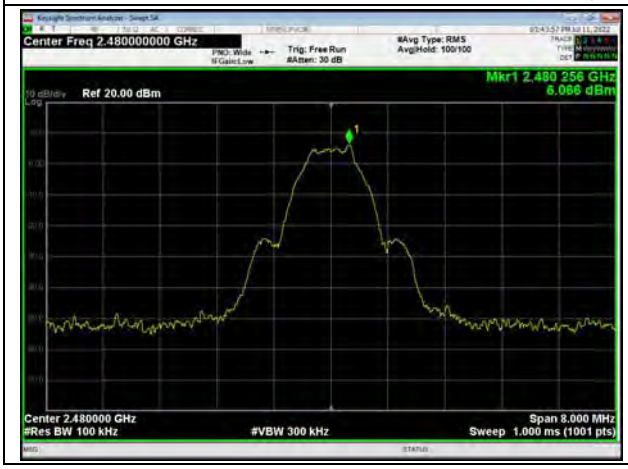
802.11n(HT40), Channel No. 9

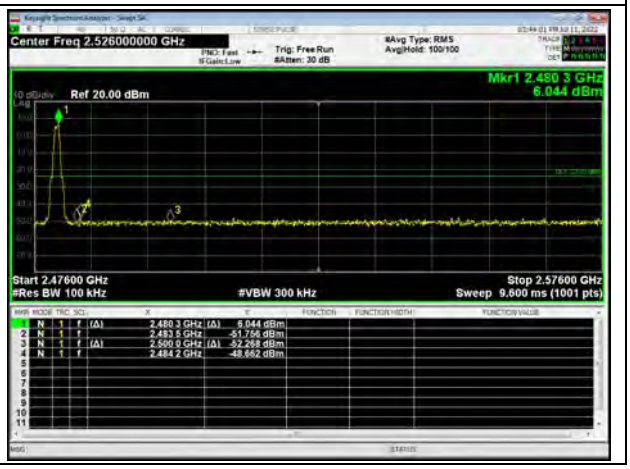
Bluetooth LE (1M), Channel No.: 0





Bluetooth LE (1M), Channel No.: 39





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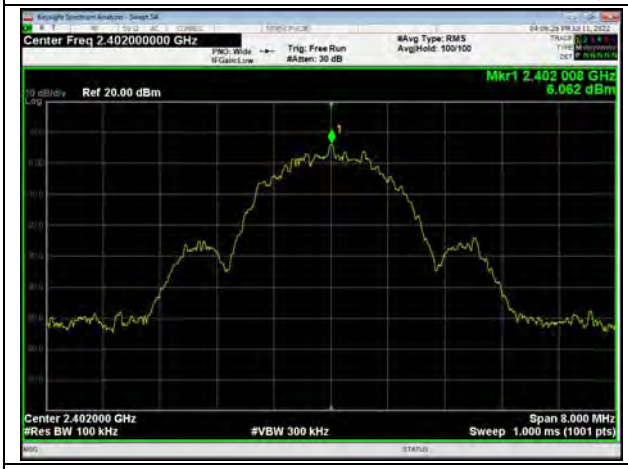
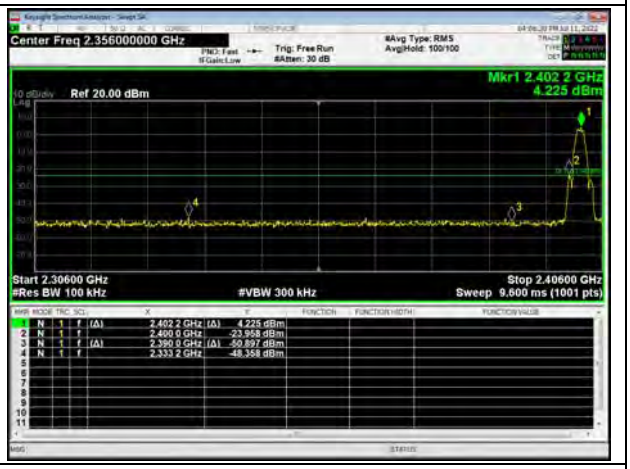
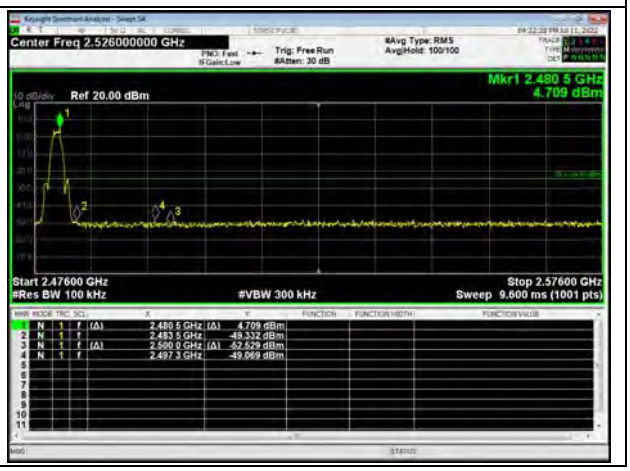
Bluetooth LE (2M), Channel No.: 0





Bluetooth LE (2M), Channel No.: 39



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5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation.

Method AVGPSD-1 was used for this test.

a) Set instrument center frequency to DTS channel center frequency

b) Set span to at least 1.5 times the OBW

c) Set RBW to:3kHz≤RBW≤100kHz

d) Set VBW≥[3x RBW]

e) Detector=power averaging (rms) or sample detector (when rms not available)

f) Ensure that the number of measurement points in the sweep 2[2 X span/RBWT]

g) Sweep time auto couple

h) Employ trace averaging (rms) mode over a minimum of 100 traces

i) Use the peak marker function to determine the maximum amplitude level.

j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Method AVGPSD-2 was used for this test.

a) Measure the duty cycle (D)of the transmitter output signal as described in 11.6

b) Set instrument center frequency to DTS channel center frequency

c) Set span to at least 1.5 times the OBW

d) Set RBW to:3kHz≤RBW≤100Kh

e) Set VBW≥[3x RBW]

f) Detector= power averaging (rms) or sample detector (when rms not available)

g) Ensure that the number of measurement points in the sweep 2[2 X span/RBW]

h) Sweep time =auto couple

i) Do not use sweep triggering; allow sweep to "free run”

j) Employ trace averaging (rms) mode over a minimum of 100 traces

k) Use the peak marker function to determine the maximum amplitude level

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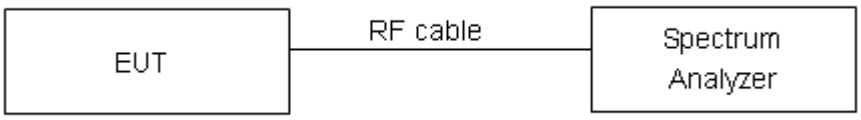
l) Add [10 log(1/ D)], where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time

m) If measured value exceeds requirement specified by regulatory agency then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Test setup



Limits

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. ''

Limits	≤ 8 dBm / 3kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 2, *U*= 0.75dB.

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Test Results:

Test Mode	Channel Number	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	2412/CH1	-3.61	-13.61	8	PASS
	2437/CH6	-4.30	-14.30	8	PASS
	2462/CH11	-3.36	-13.36	8	PASS
802.11g	2412/CH1	-11.48	-21.35	8	PASS
	2417/CH2	-9.48	-19.35	8	PASS
	2422/CH3	-7.98	-17.85	8	PASS
	2427/CH4	-7.47	-17.34	8	PASS
	2432/CH5	-6.23	-16.10	8	PASS
	2437/CH6	-6.61	-16.48	8	PASS
	2442/CH7	-7.23	-17.10	8	PASS
	2447/CH8	-7.24	-17.11	8	PASS
	2452/CH9	-9.50	-19.37	8	PASS
	2457/CH10	-11.48	-21.35	8	PASS
	2462/CH11	-13.38	-23.25	8	PASS
802.11n HT20	2412/CH1	-11.33	-21.20	8	PASS
	2417/CH2	-9.15	-19.02	8	PASS
	2422/CH3	-8.64	-18.51	8	PASS
	2427/CH4	-7.55	-17.42	8	PASS
	2432/CH5	-6.59	-16.46	8	PASS
	2437/CH6	-6.84	-16.71	8	PASS
	2442/CH7	-7.35	-17.22	8	PASS
	2447/CH8	-7.68	-17.55	8	PASS
	2452/CH9	-9.45	-19.32	8	PASS
	2457/CH10	-11.43	-21.30	8	PASS
	2462/CH11	-13.32	-23.19	8	PASS
802.11n HT40	2422/CH3	-19.03	-28.75	8	PASS
	2427/CH4	-18.04	-27.76	8	PASS
	2432/CH5	-15.76	-25.48	8	PASS
	2437/CH6	-14.59	-24.31	8	PASS
	2442/CH7	-15.88	-25.60	8	PASS
	2447/CH8	-17.25	-26.97	8	PASS
	2452/CH9	-17.78	-27.50	8	PASS
Note: Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)					

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Test Mode	Channel Number	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
Bluetooth (Low Energy) (1M)	2402/CH0	-15.57	-14.87	8	PASS
	2440/CH19	-15.42	-14.72	8	PASS
	2480/CH39	-16.17	-15.47	8	PASS
Bluetooth (Low Energy) (2M)	2402/CH0	-19.45	-17.02	8	PASS
	2440/CH19	-18.75	-16.32	8	PASS
	2480/CH39	-19.34	-16.91	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

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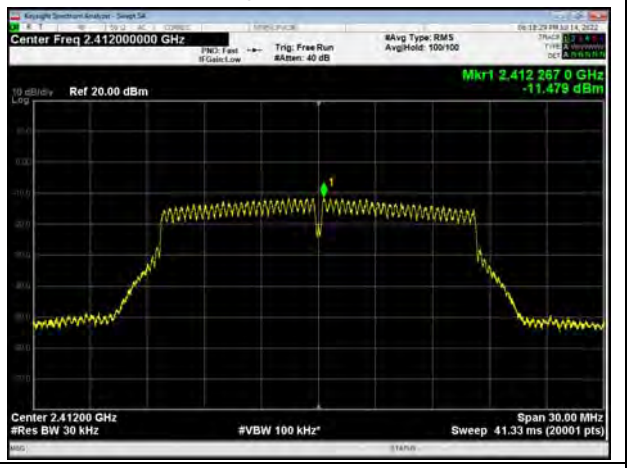
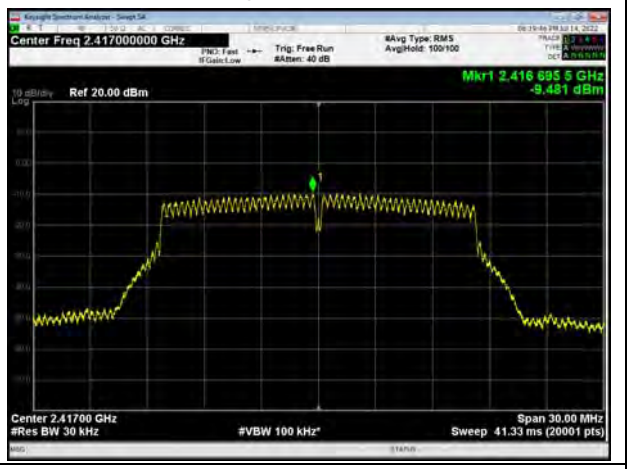
802.11b, Channel No.: 1

802.11g, Channel No.: 1



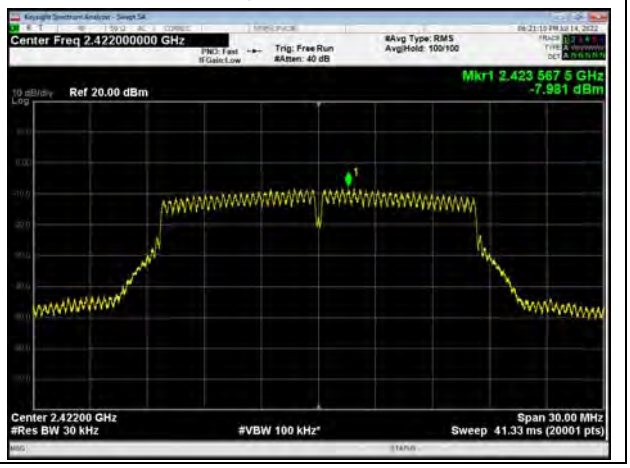
802.11b, Channel No.: 6

802.11g, Channel No.: 2



802.11b, Channel No.: 11

802.11g, Channel No.: 3



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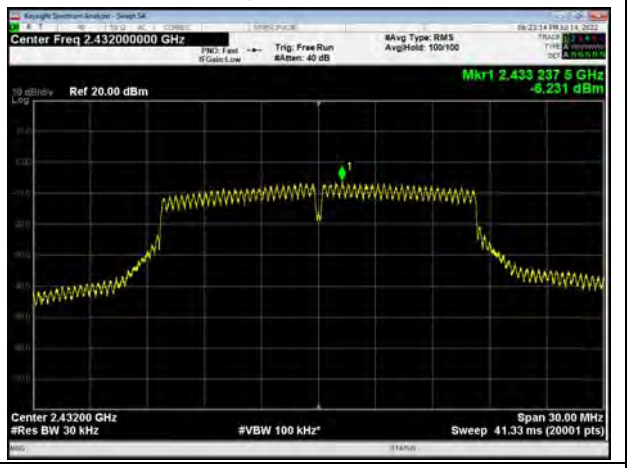
802.11g, Channel No.: 4

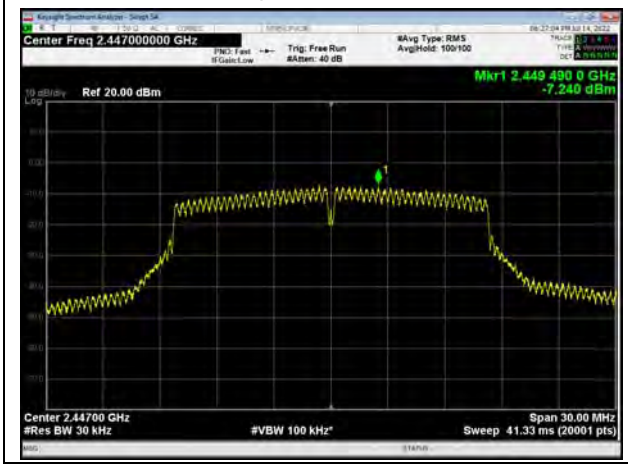
802.11g, Channel No.: 5



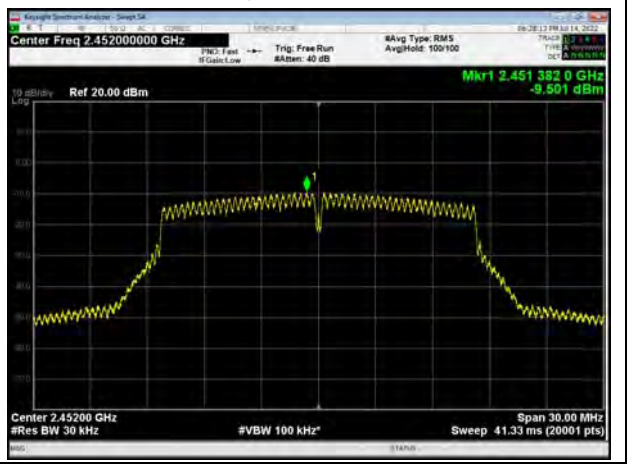
802.11g, Channel No.: 6

802.11g, Channel No.: 7

802.11g, Channel No.: 8



802.11g, Channel No.: 9



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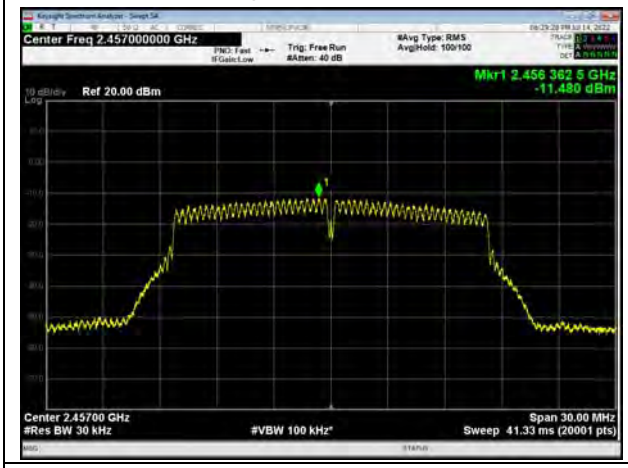
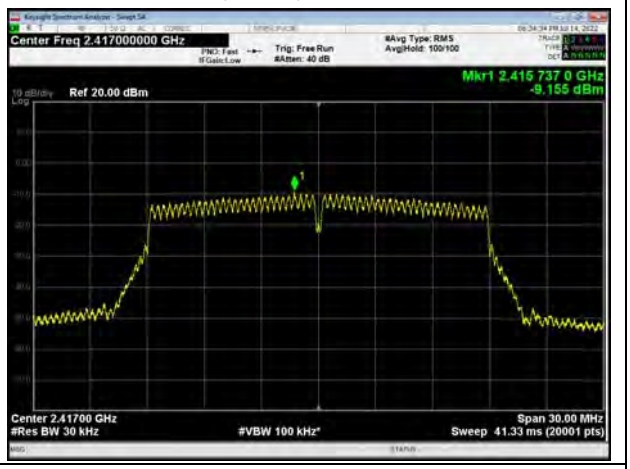
802.11g, Channel No.: 10



802.11g, Channel No.: 11

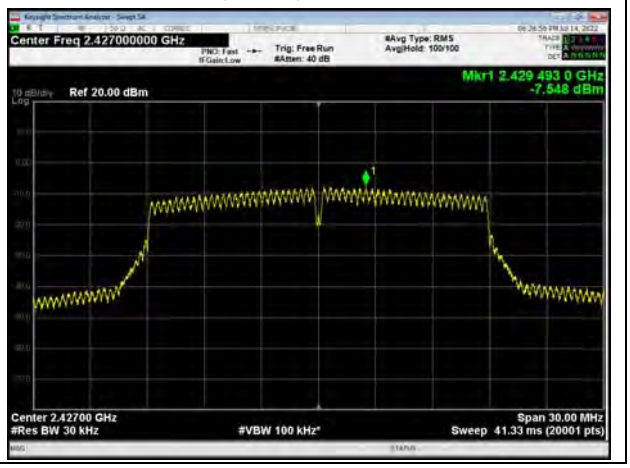
802.11n(HT20), Channel No. 1

802.11n(HT20), Channel No. 2



802.11n(HT20), Channel No. 3

802.11n(HT20), Channel No. 4



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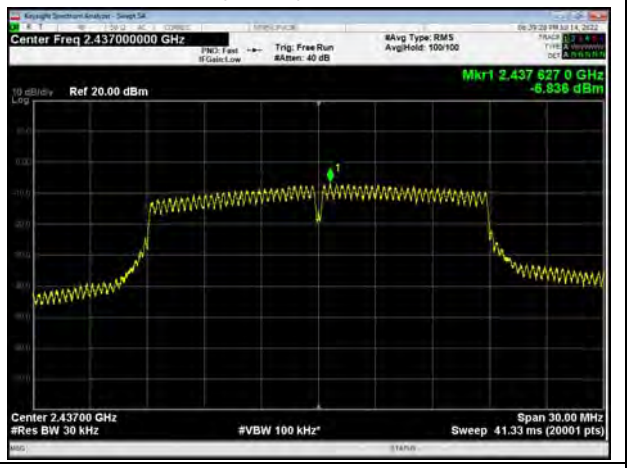
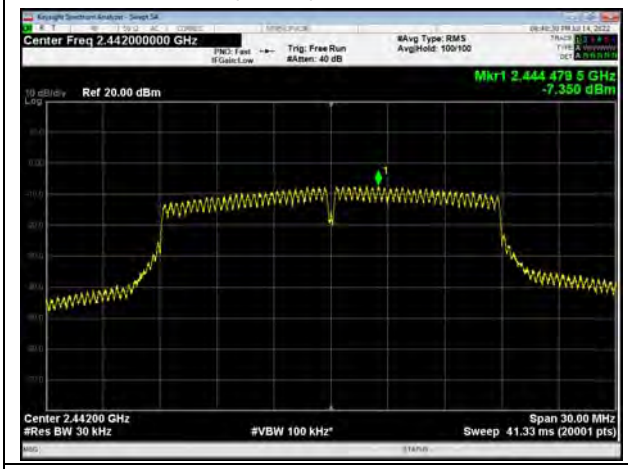
802.11n(HT20), Channel No. 5

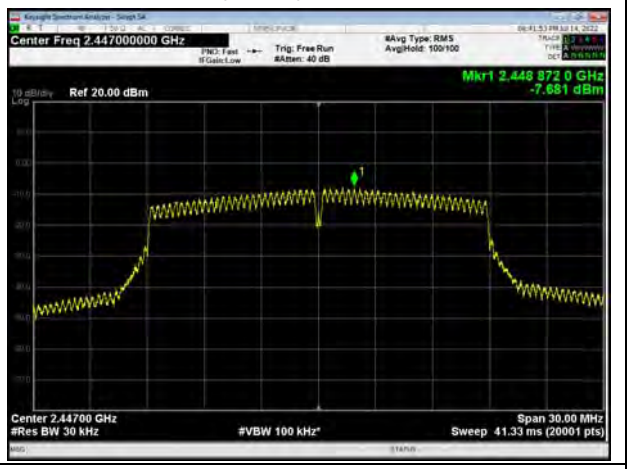
802.11n(HT20), Channel No. 6



802.11n(HT20), Channel No. 7



802.11n(HT20), Channel No. 8



802.11n(HT20), Channel No. 9

802.11n(HT20), Channel No. 10

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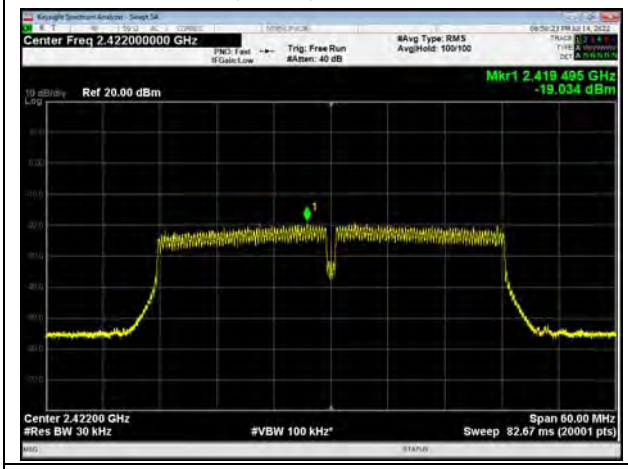
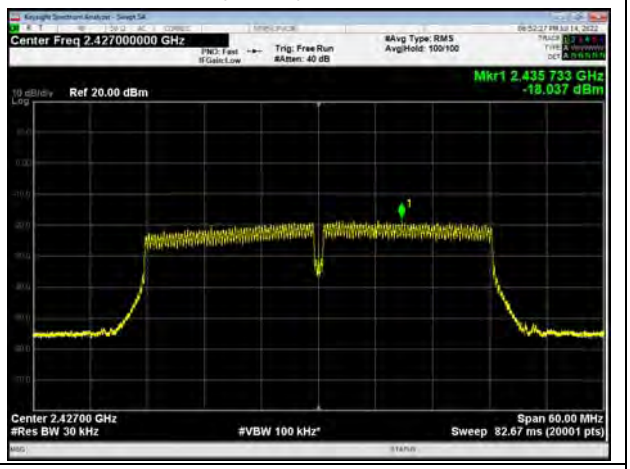
802.11n(HT20), Channel No. 11

/

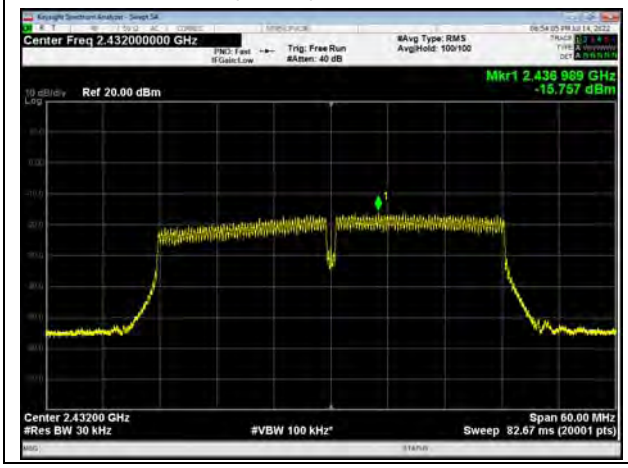
802.11n(HT40), Channel No. 3



802.11n(HT40), Channel No. 4



802.11n(HT40), Channel No. 5



802.11n(HT40), Channel No. 6

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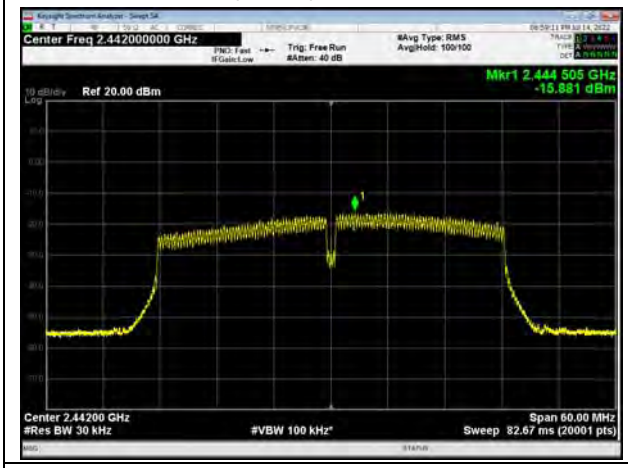
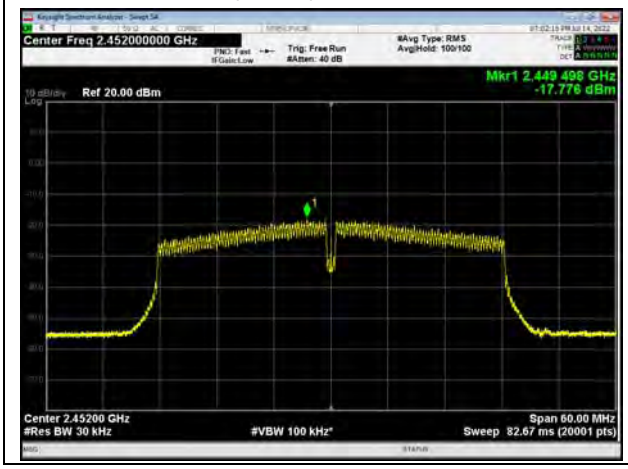
802.11n(HT40), Channel No. 7



802.11n(HT40), Channel No. 8

802.11n(HT40), Channel No. 9



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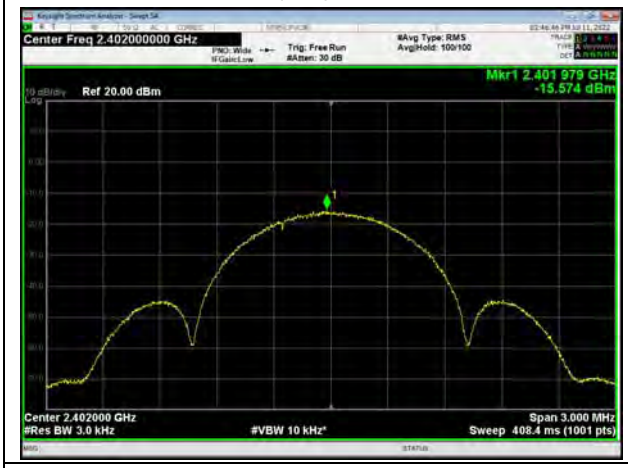
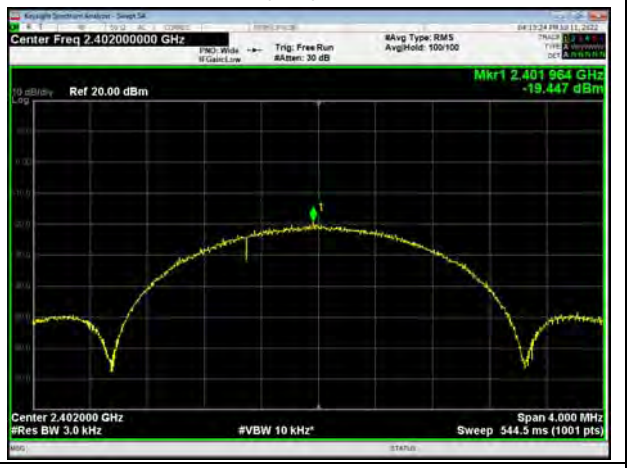
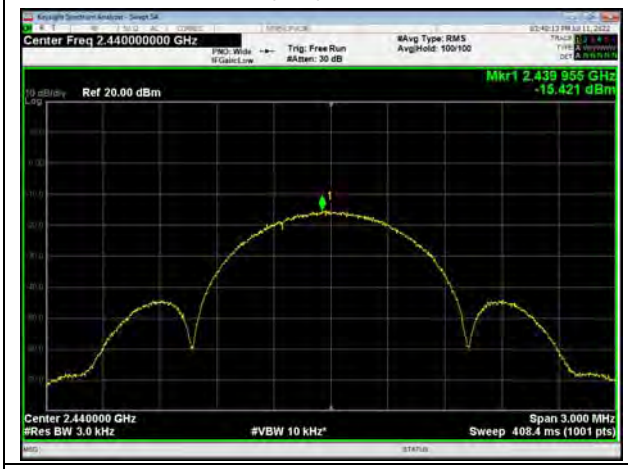
Bluetooth LE (1M), Channel No.: 0



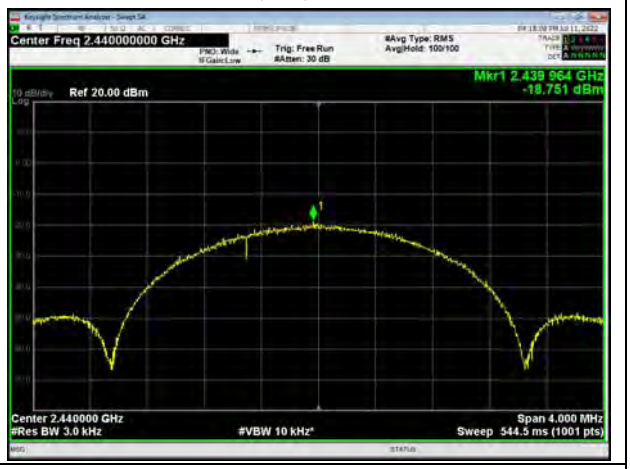
Bluetooth LE (2M), Channel No.: 0



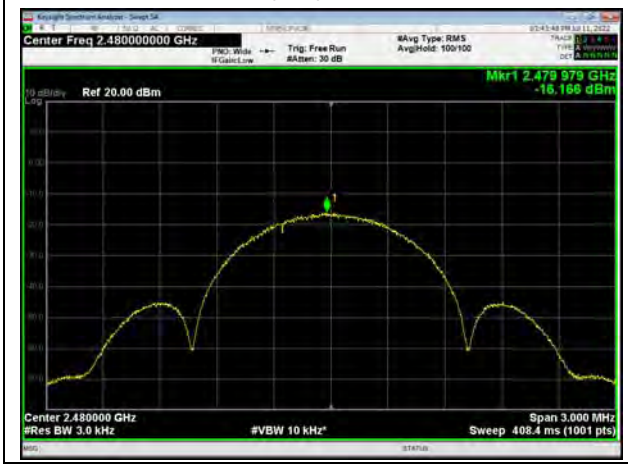
Bluetooth LE (1M), Channel No.: 19



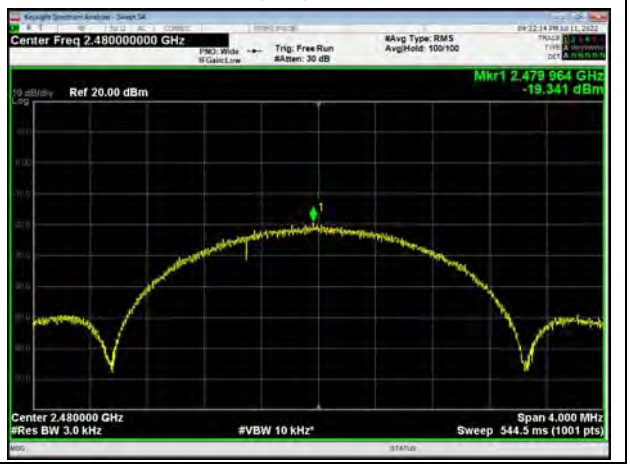
Bluetooth LE (2M), Channel No.: 19



Bluetooth LE (1M), Channel No.: 39



Bluetooth LE (2M), Channel No.: 39



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5.5. Spurious RF Conducted Emissions

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.
The test is in transmitting mode.

Test setup

Limits

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. "

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412/CH1	8.54	-21.46
	2437/CH6	7.78	-22.22
	2462/CH11	8.85	-21.15
802.11g	2412/CH1	0.45	-29.55
	2417/CH2	1.59	-28.41
	2422/CH3	3.81	-26.19
	2427/CH4	4.35	-25.65
	2432/CH5	5.79	-24.21
	2437/CH6	6.13	-23.87
	2442/CH7	5.79	-24.21
	2447/CH8	5.05	-24.95
	2452/CH9	1.83	-28.17

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	2457/CH10	0.16	-29.84
	2462/CH11	-1.01	-31.01
802.11n HT20	2412/CH1	0.29	-29.71
	2417/CH2	2.63	-27.37
	2422/CH3	3.35	-26.65
	2427/CH4	4.54	-25.46
	2432/CH5	5.73	-24.27
	2437/CH6	6.14	-23.86
	2442/CH7	5.36	-24.64
	2447/CH8	4.57	-25.43
	2452/CH9	3.51	-26.49
	2457/CH10	1.20	-28.80
	2462/CH11	-1.62	-31.62
802.11n HT40	2422/CH3	-7.53	-37.53
	2427/CH4	-5.87	-35.87
	2432/CH5	-3.49	-33.49
	2437/CH6	-1.80	-31.80
	2442/CH7	-2.54	-32.54
	2447/CH8	-4.58	-34.58
	2452/CH9	-5.76	-35.76
Bluetooth (Low Energy) (1M)	2402/CH0	6.04	-23.96
	2440/CH19	6.96	-23.04
	2480/CH39	5.94	-24.06
Bluetooth (Low Energy) (2M)	2402/CH0	5.88	-24.12
	2440/CH19	5.87	-24.13
	2480/CH39	5.62	-24.38

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

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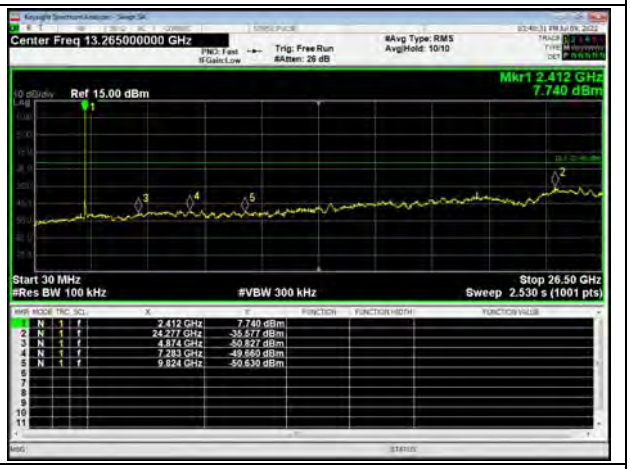
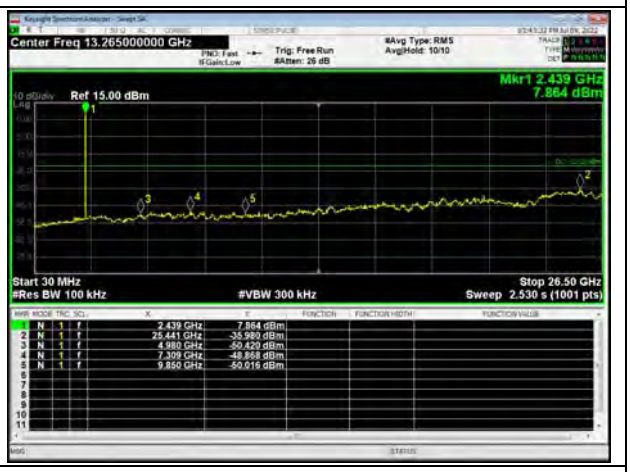
Test Results:

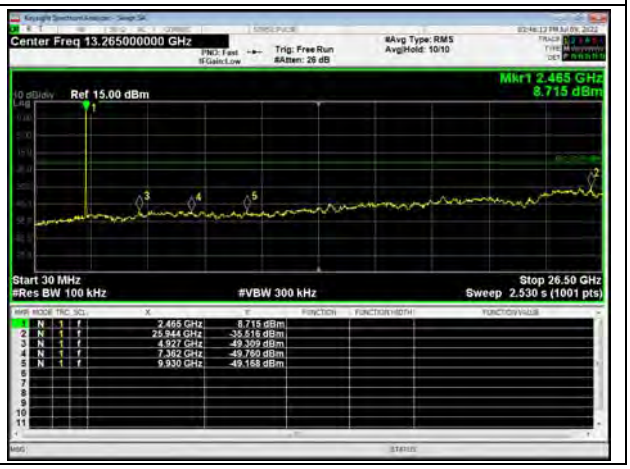
802.11b, Channel No.: 1



802.11b, Channel No.: 6



802.11b, Channel No.: 11



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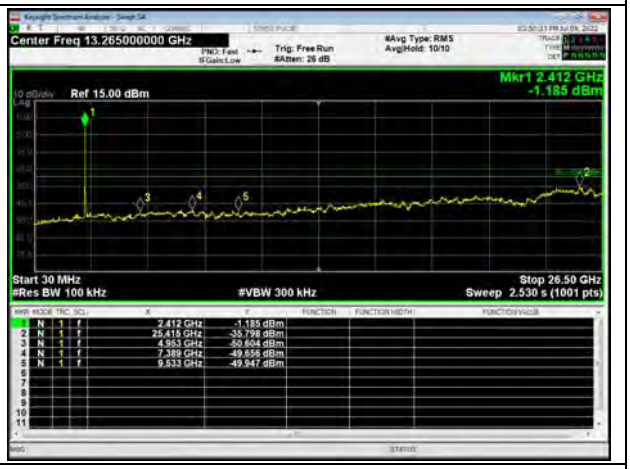
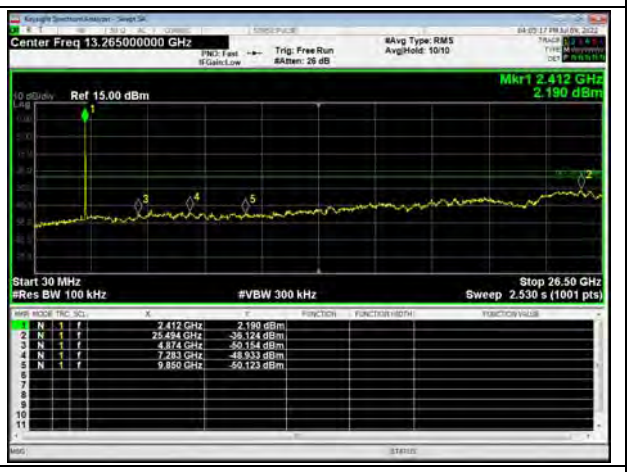
802.11g, Channel No.: 1



802.11g, Channel No.: 2



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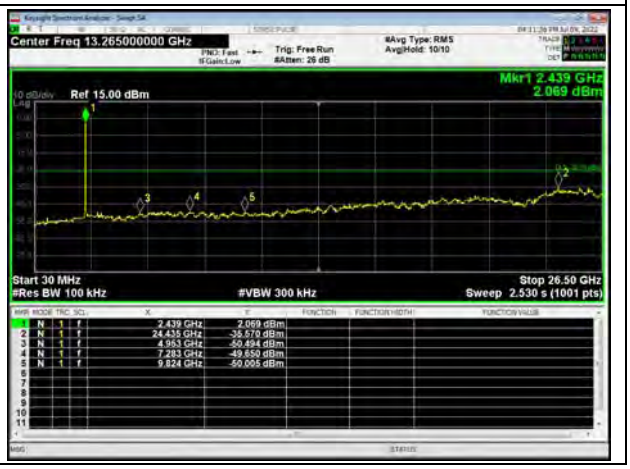

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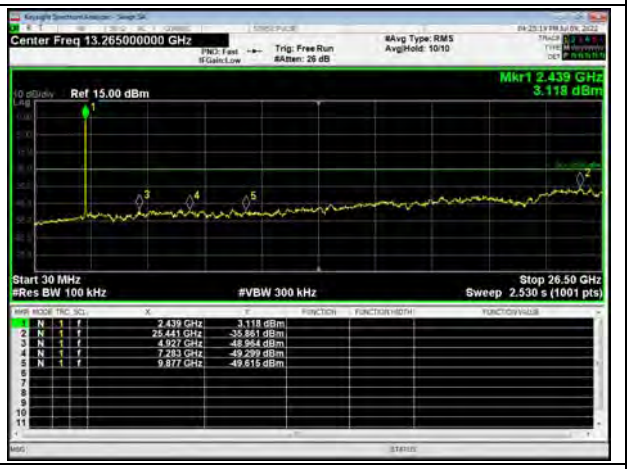
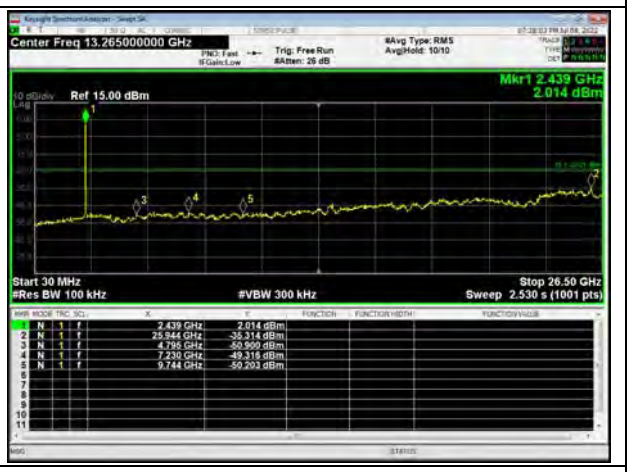


802.11g, Channel No.: 5



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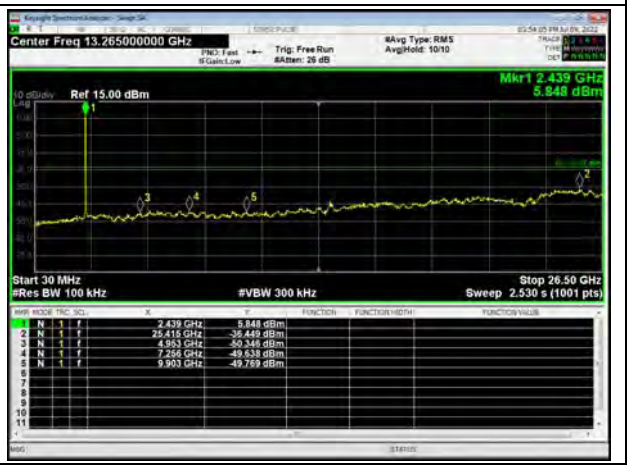

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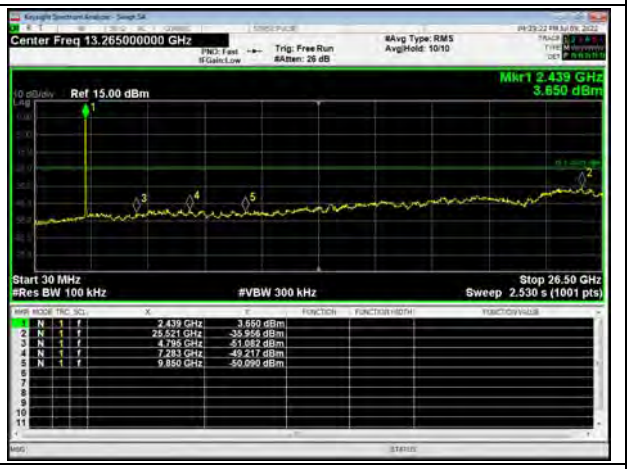
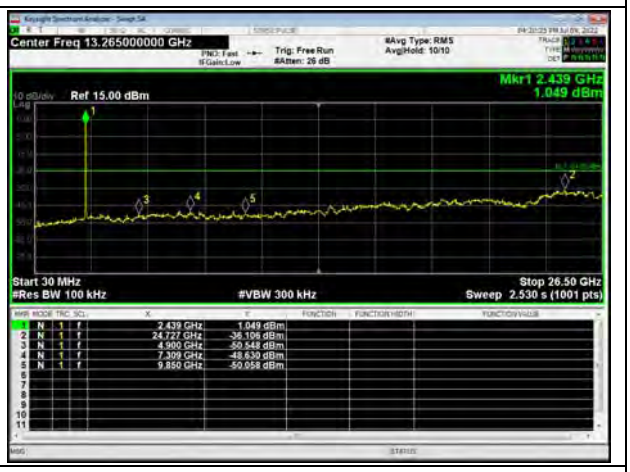
802.11g, Channel No.: 7



802.11g, Channel No.: 8



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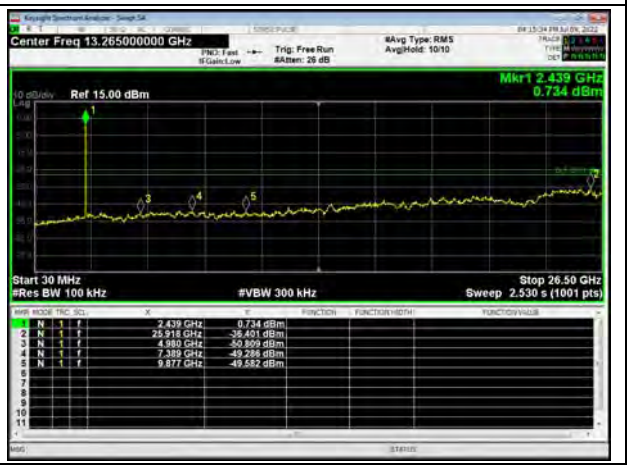

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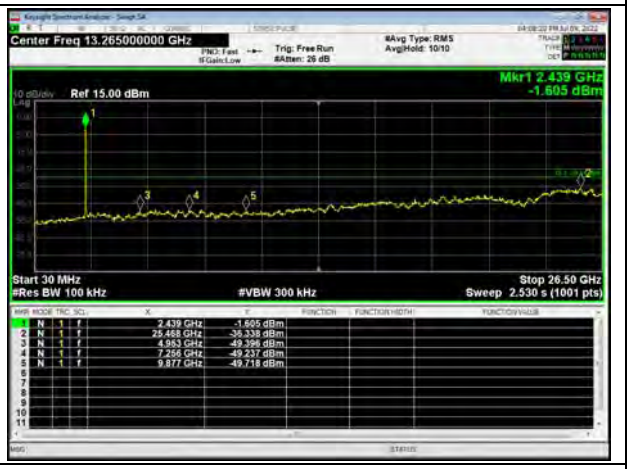
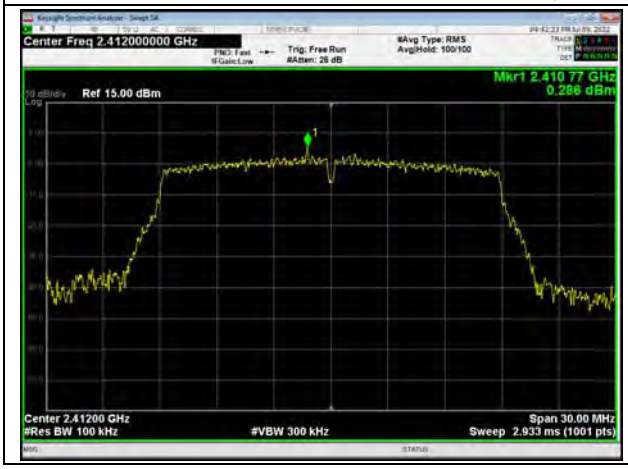
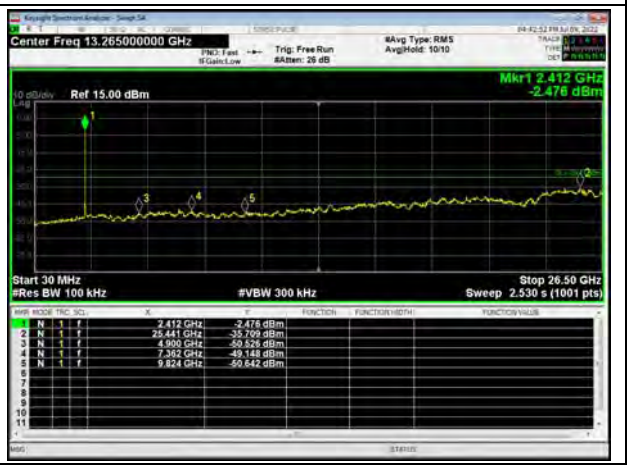


802.11g, Channel No.: 11

802.11n(HT20), Channel No. 1





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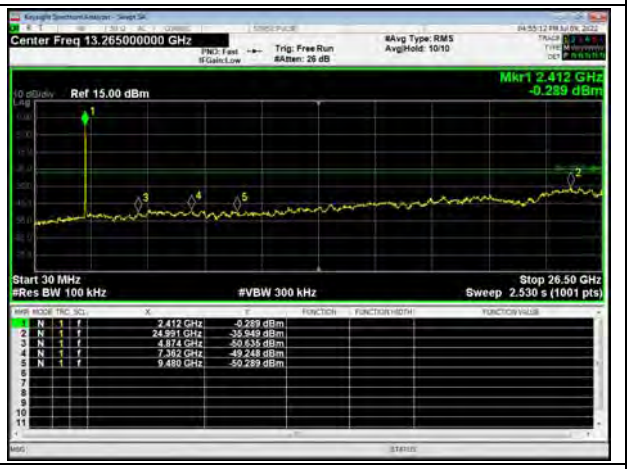
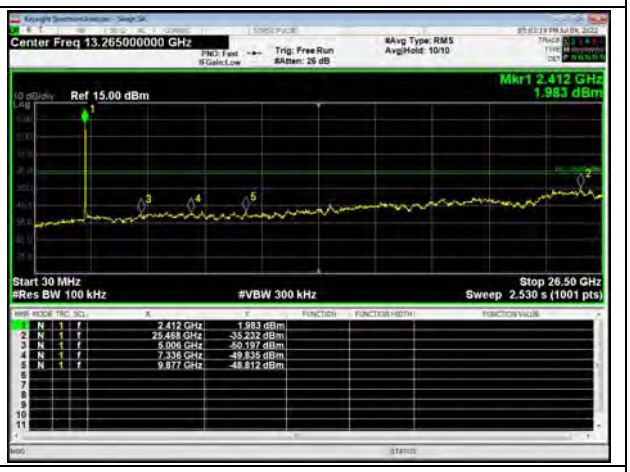
802.11n(HT20), Channel No. 2



802.11n(HT20), Channel No. 3



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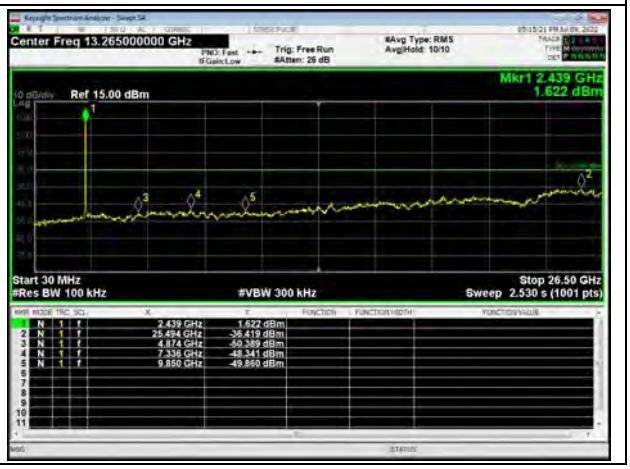

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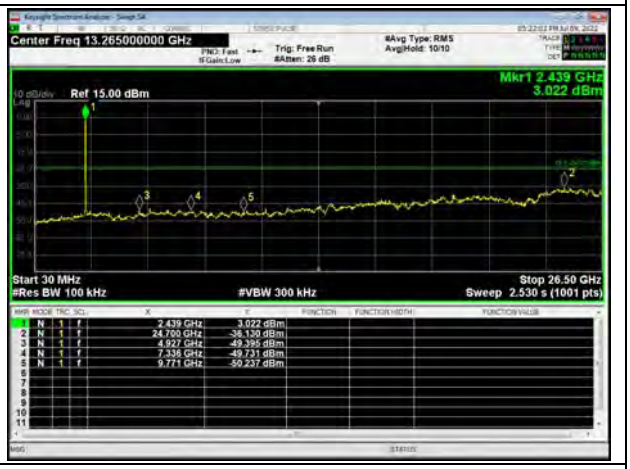
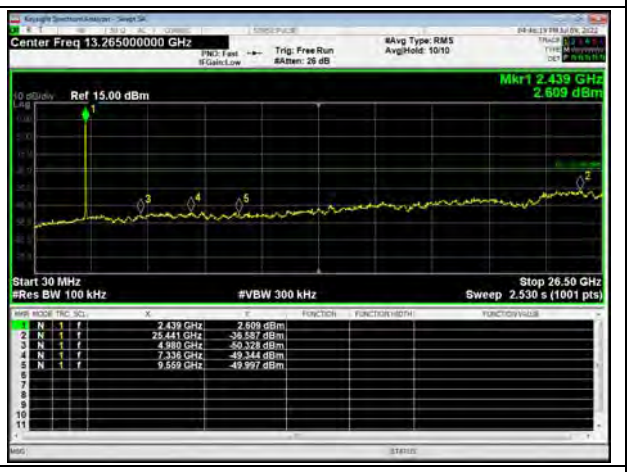
802.11n(HT20), Channel No. 5



802.11n(HT20), Channel No. 6



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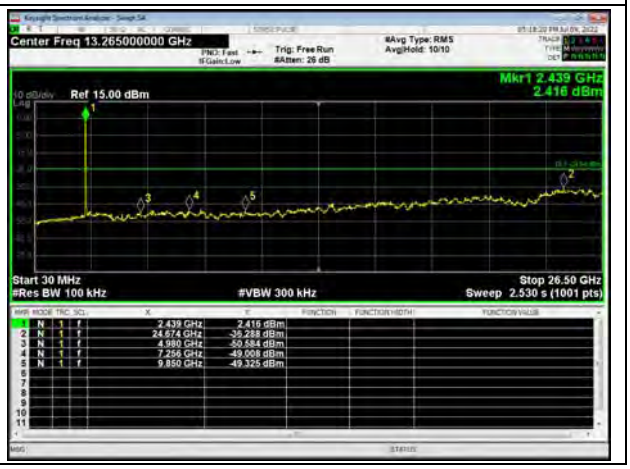

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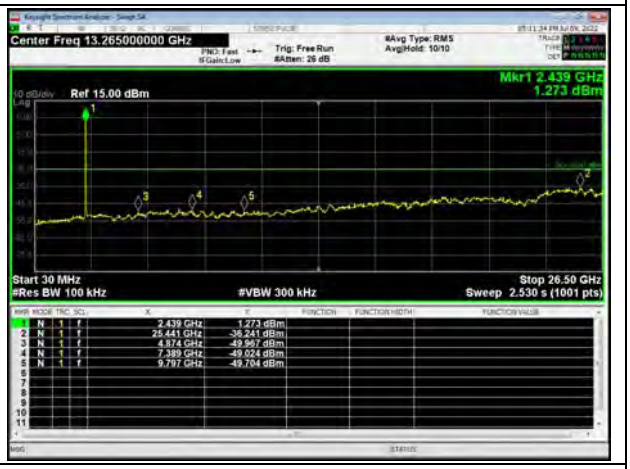
802.11n(HT20), Channel No. 8



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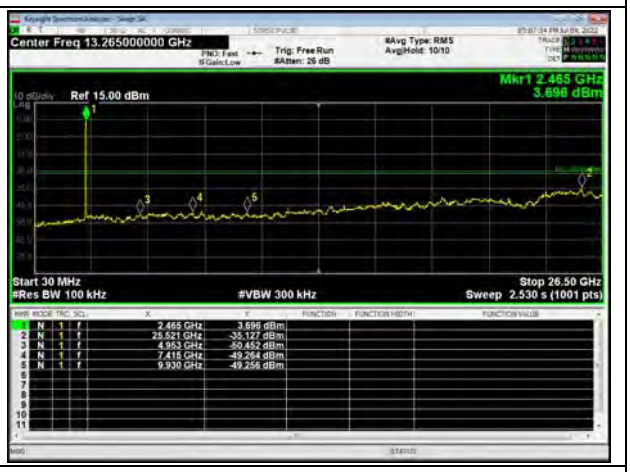

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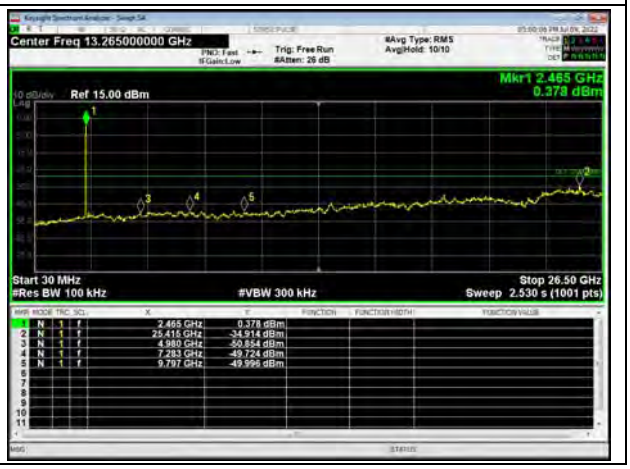

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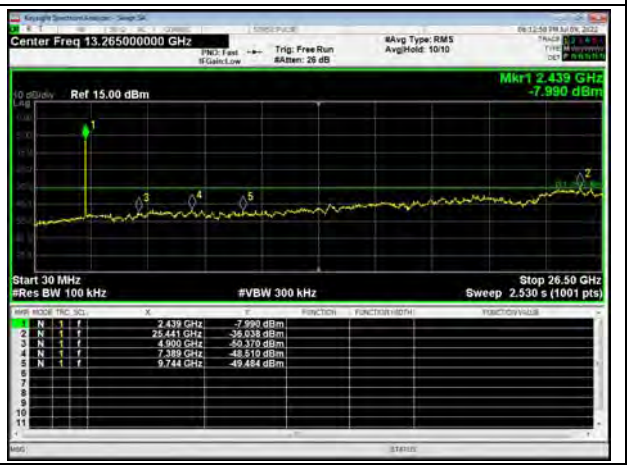
802.11n(HT20), Channel No. 11

802.11n(HT40), Channel No. 3

802.11n(HT40), Channel No. 4



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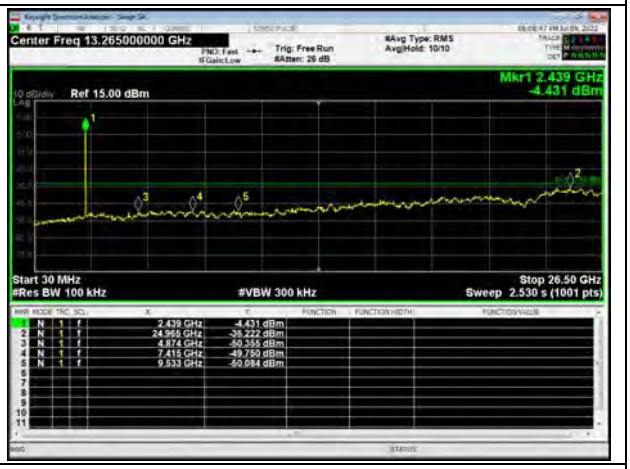
802.11n(HT40), Channel No. 5



802.11n(HT40), Channel No. 6

802.11n(HT40), Channel No. 7

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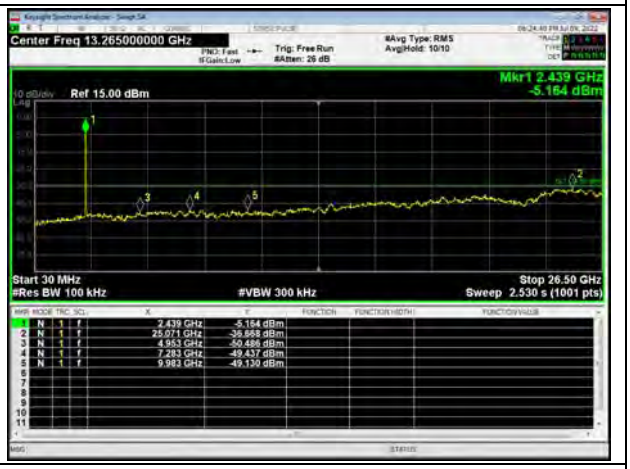
802.11n(HT40), Channel No. 8



802.11n(HT40), Channel No. 9

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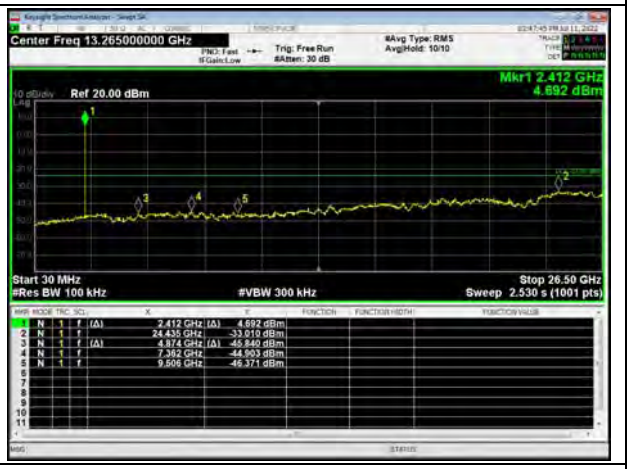
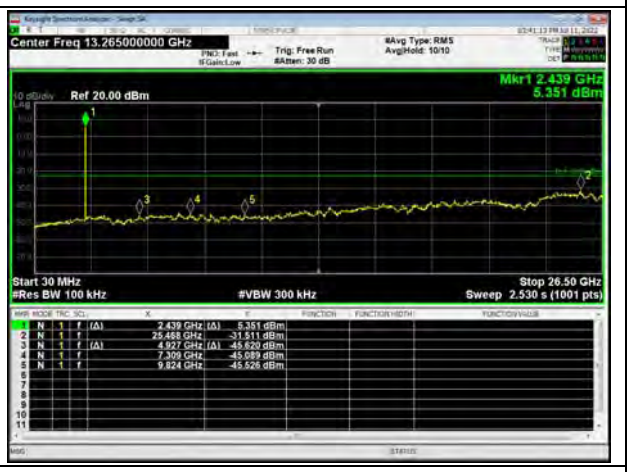
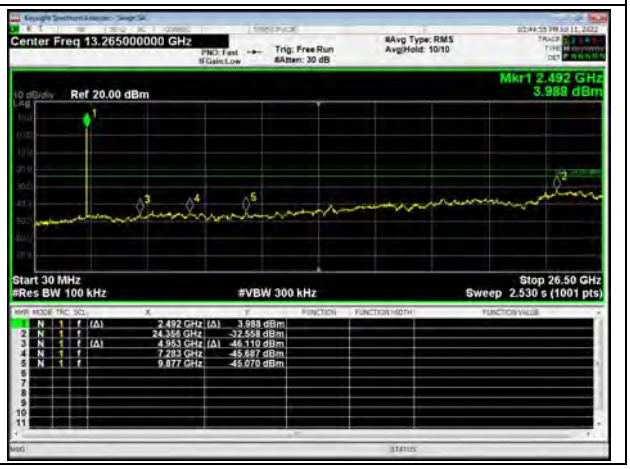
Bluetooth LE (1M), Channel No.: 0



Bluetooth LE (1M), Channel No.: 19



Bluetooth LE (1M), Channel No.: 39



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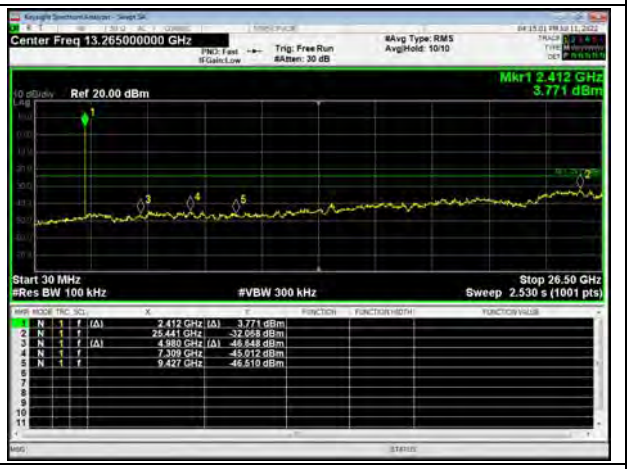
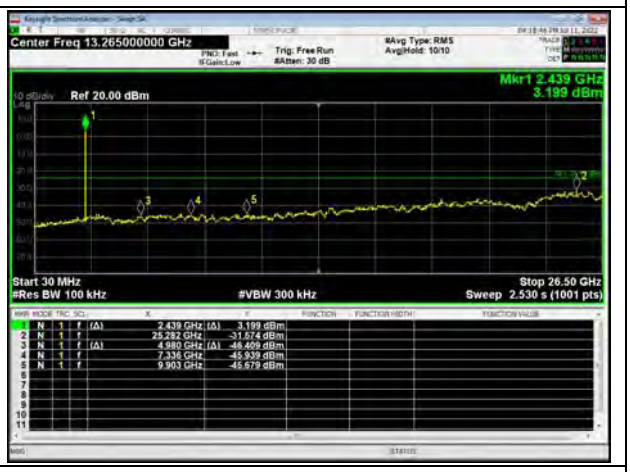
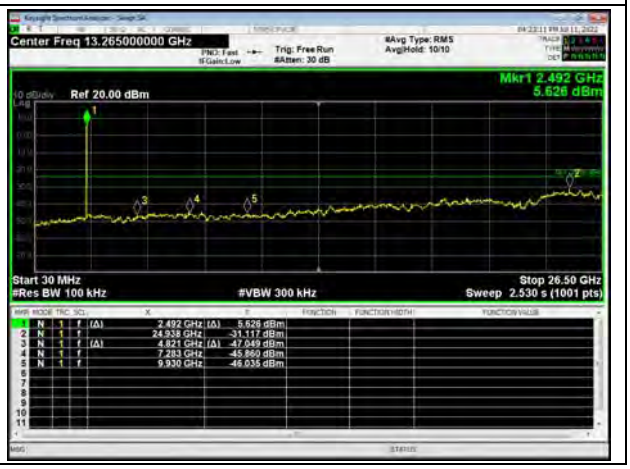
Bluetooth LE (2M), Channel No.: 0



Bluetooth LE (2M), Channel No.: 19



Bluetooth LE (2M), Channel No.: 39



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5.6. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.
The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.
The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:
Set the spectrum analyzer in the following:
9kHz~150 kHz
RBW=200Hz, VBW=1kHz/ Sweep=AUTO
150 kHz~30MHz
RBW=9KHz, VBW=30KHz,/ Sweep=AUTO
Below 1GHz
RBW=100kHz / VBW=300kHz / Sweep=AUTO
a) Peak emission levels are measured by setting the instrument as follows:
Above 1GHz
PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
b) Average emission levels are measured by setting the instrument as follows:
Above 1GHz
AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO
c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

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averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

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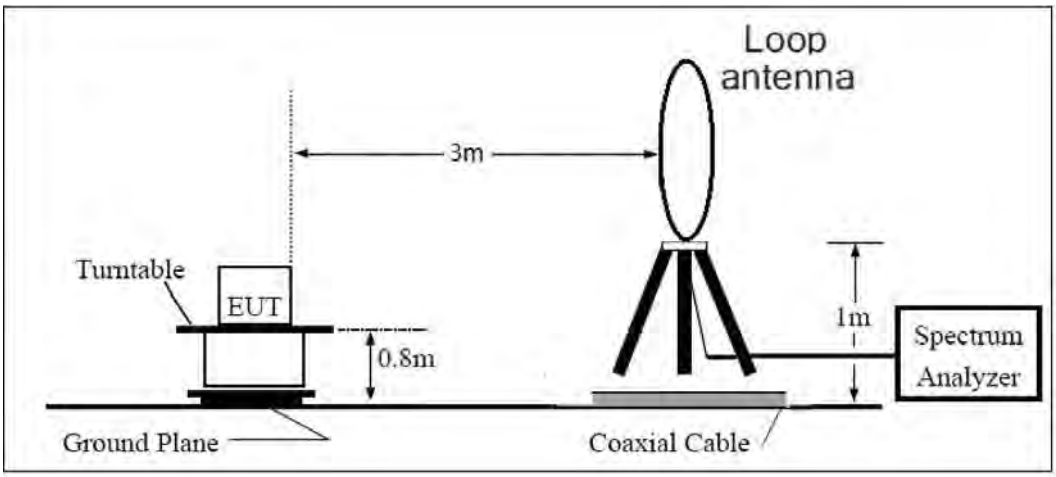
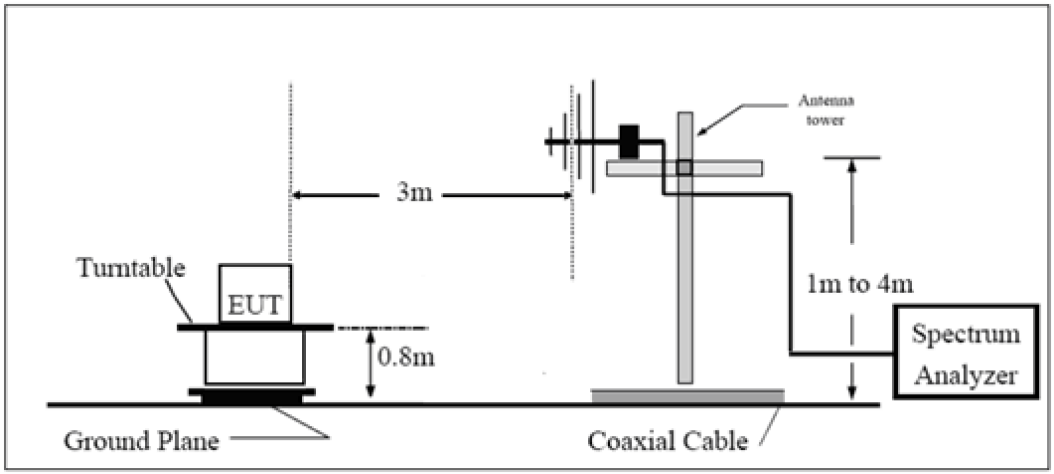
Test setup

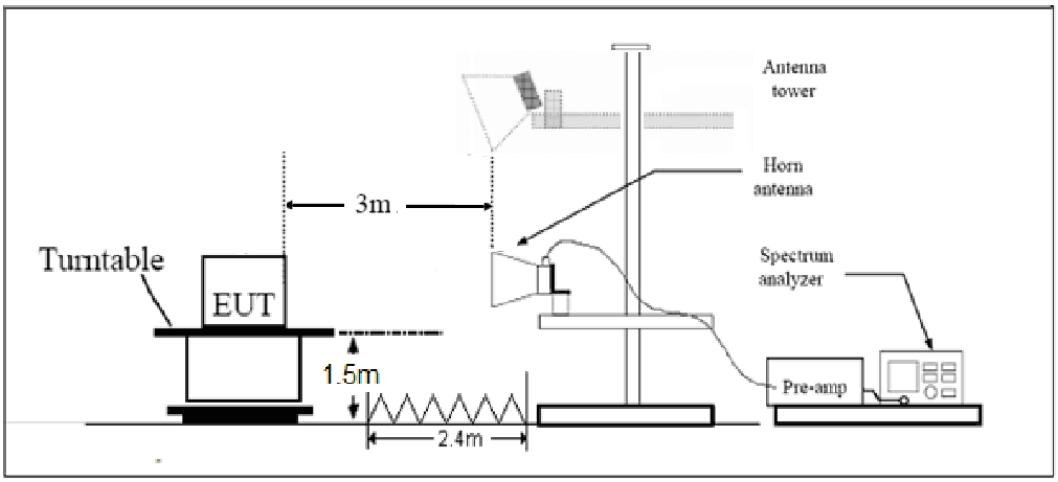
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

Rule Part 15.247(d) specifies that "In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))."

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

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Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1] 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

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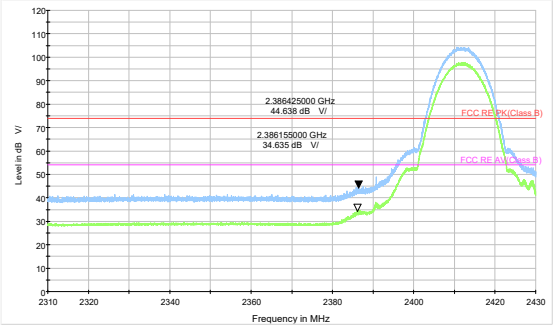
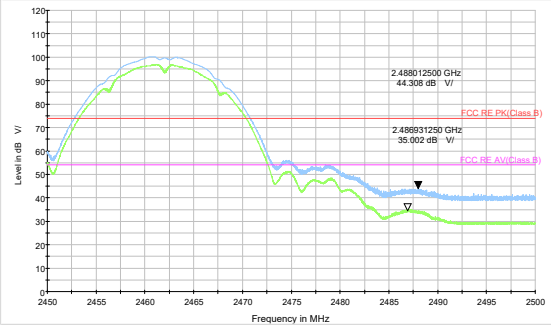
Test Results:

A font (Level in dB V/)in the test plot =(level in dB μ V/m)

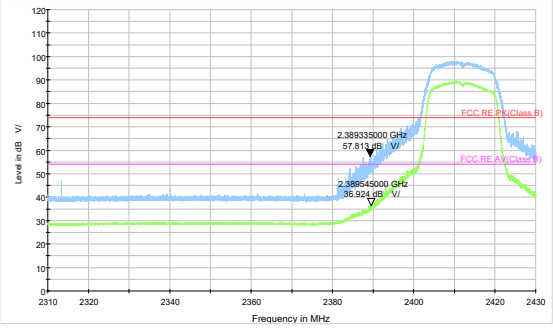
A font (dB V/)in the test plot =(dB μ V/m)



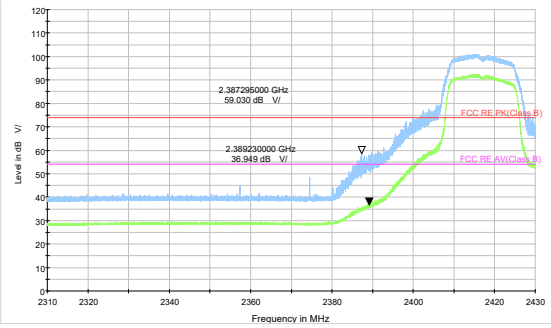
802.11b-Channel 1 Peak+ Average



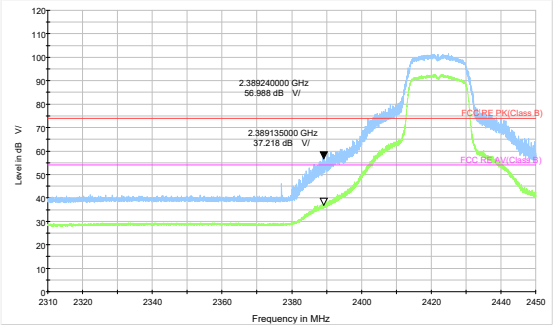
802.11b-Channel 11 Peak+ Average



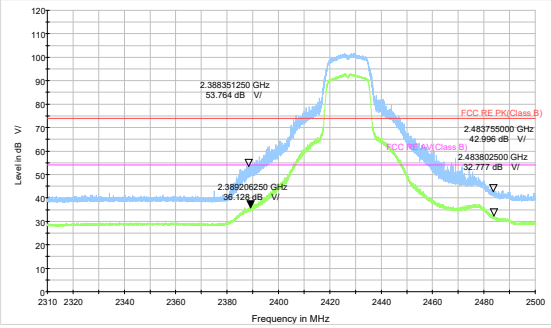
802.11g-Channel 1 Peak+ Average



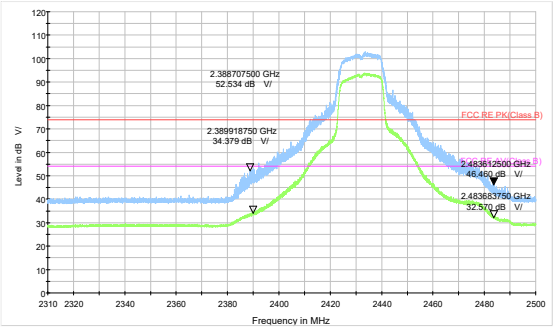
802.11g-Channel 2 Peak+ Average



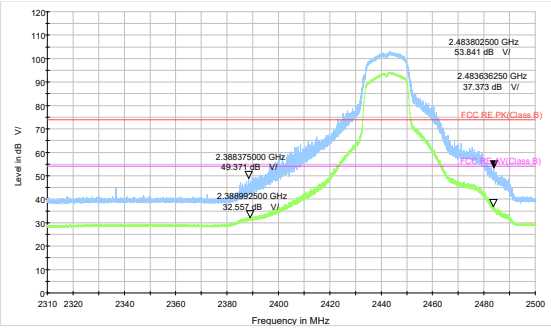
802.11g-Channel 3 Peak+ Average



802.11g-Channel 4 Peak+ Average



802.11g-Channel 5 Peak+ Average



802.11g-Channel 7 Peak+ Average

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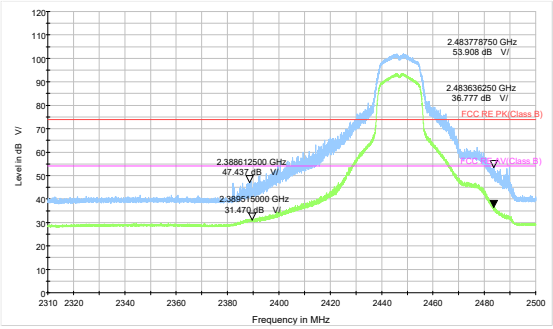
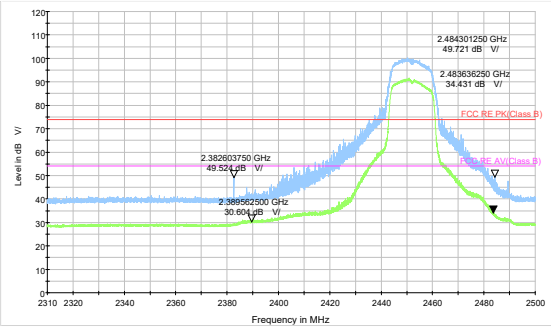
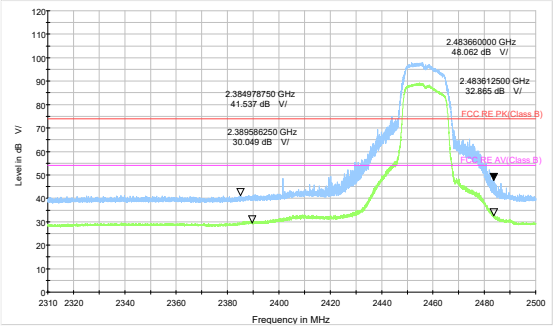


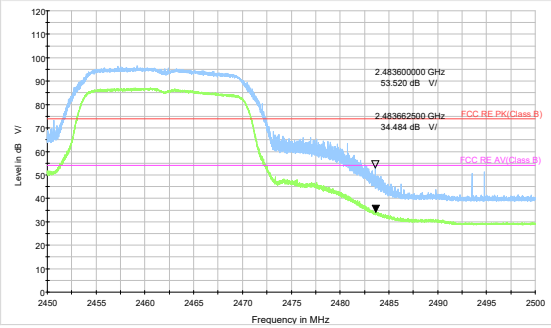
802.11g-Channel 8 Peak+ Average



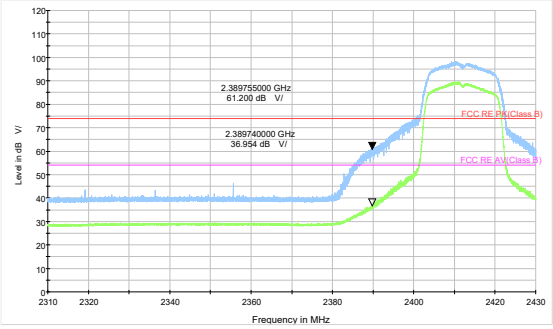
802.11g-Channel 9 Peak+ Average



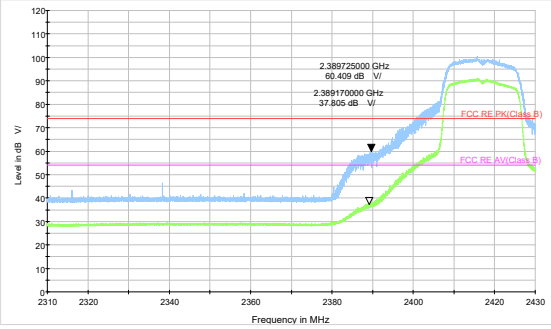
802.11g-Channel 10 Peak+ Average



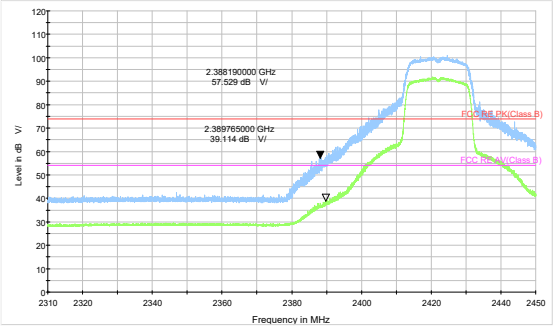
802.11g-Channel 11 Peak+ Average



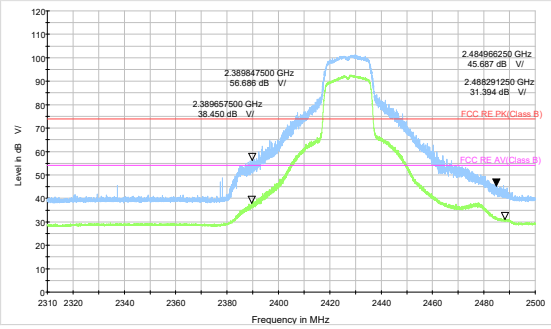
802.11n HT20 -Channel 1 Peak+ Average



802.11n HT20 -Channel 2 Peak+ Average



802.11n HT20 -Channel 3 Peak+ Average



802.11n HT20 -Channel 4 Peak+ Average

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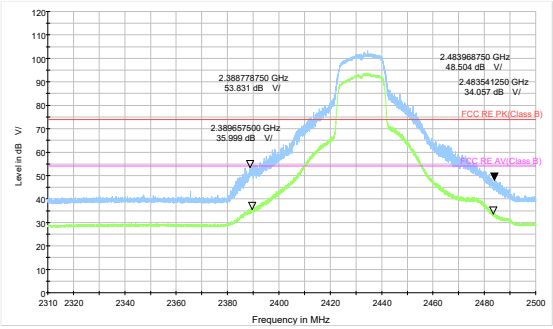
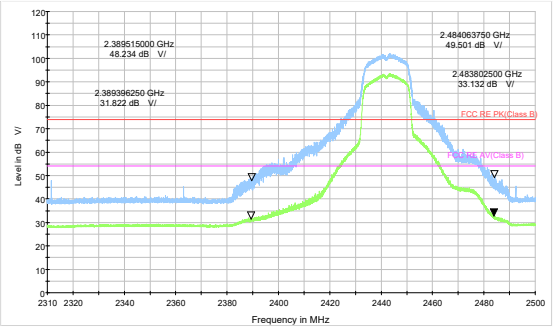
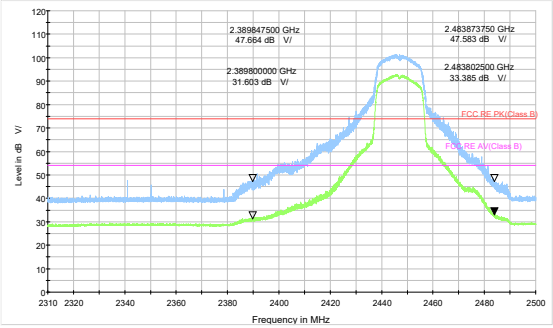


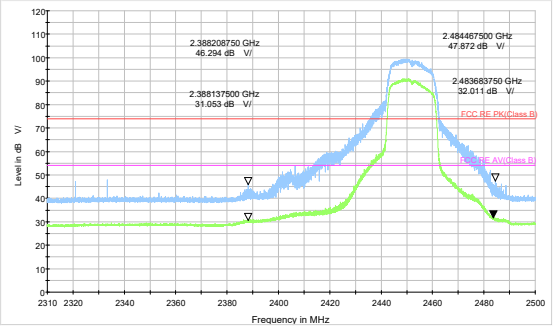
802.11n HT20 -Channel 5 Peak+ Average



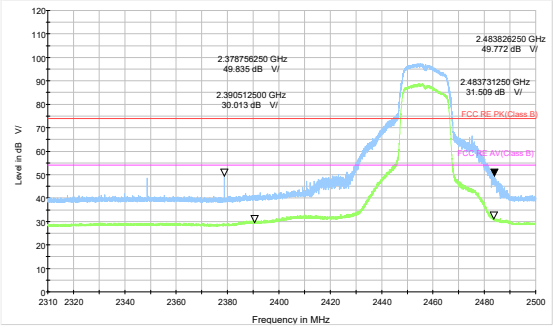
802.11n HT20 -Channel 7 Peak+ Average



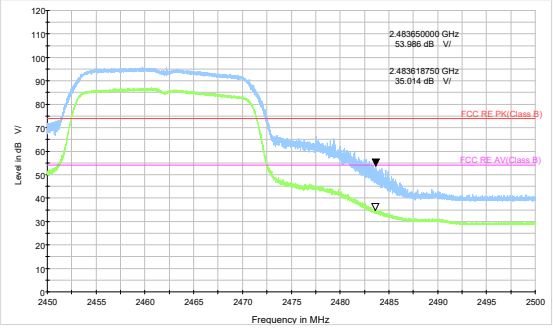
802.11n HT20 -Channel 8 Peak+ Average



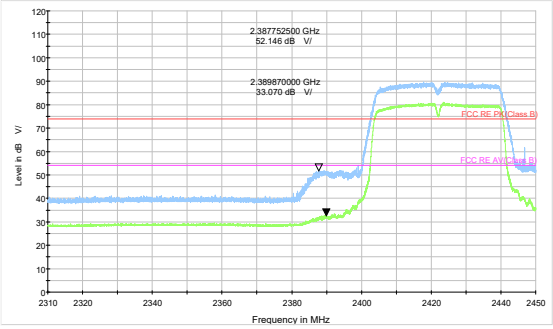
802.11n HT20 -Channel 9 Peak+ Average



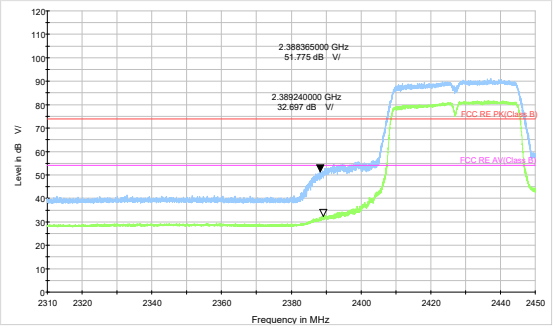
802.11n HT20 -Channel 10 Peak+ Average



802.11n HT20 -Channel 11 Peak+ Average



802.11n HT40 –Channel 3 Peak+ Average



802.11n HT40 –Channel 4 Peak+ Average

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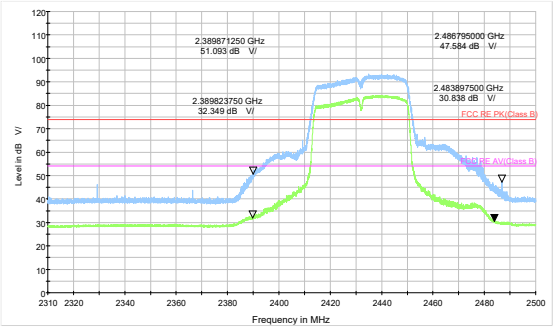
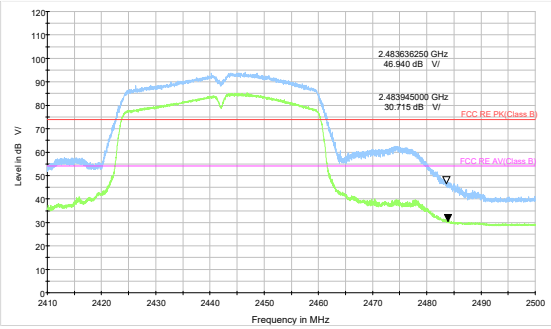
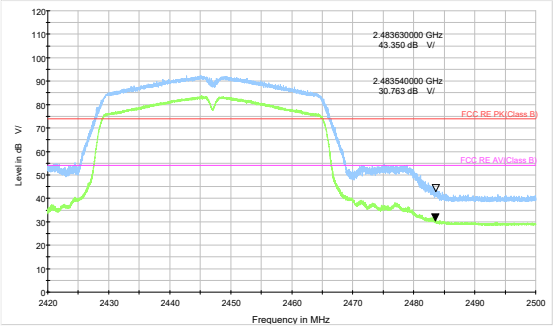


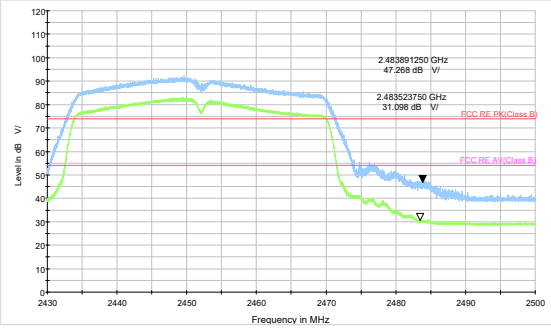
802.11n HT40 –Channel 5 Peak+ Average



802.11n HT40 –Channel 7 Peak+ Average

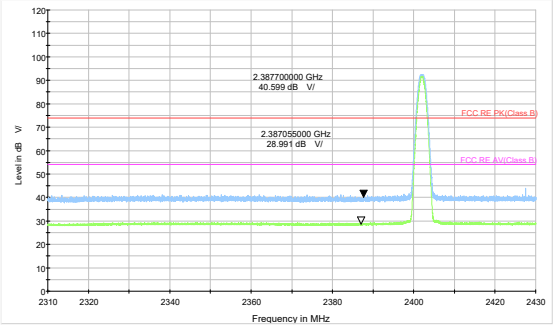


802.11n HT40 –Channel 8 Peak+ Average

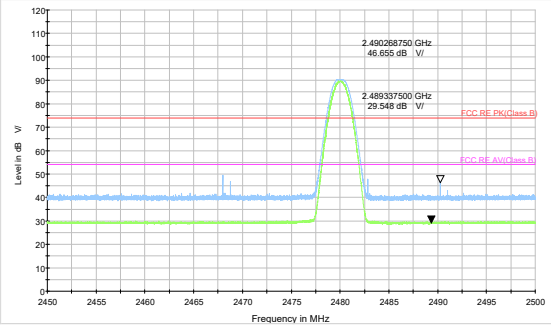


802.11n HT40 –Channel 9 Peak+ Average

After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.



Bluetooth LE (1M) Channel 0 Peak+ Average



Bluetooth LE (1M) Channel 39 Peak+Average

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Result of RE

Test result

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 11 and Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

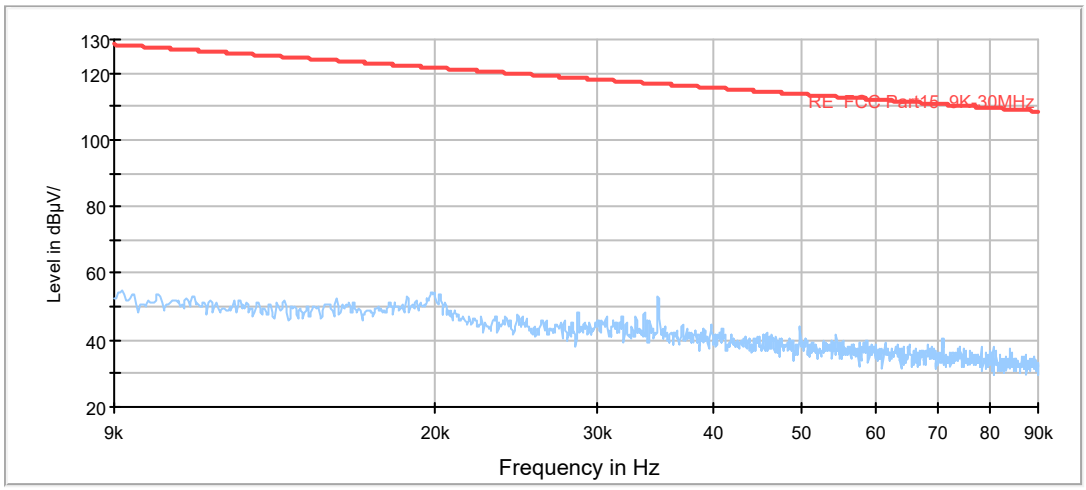
A font (Level in dBµV/)in the test plot =(level in dB µ V/m)

A font (Level in dB V/)in the test plot =(level in dB µ V/m)

A font (Level in dB礦/m)in the test plot =(level in dB µ V/m)

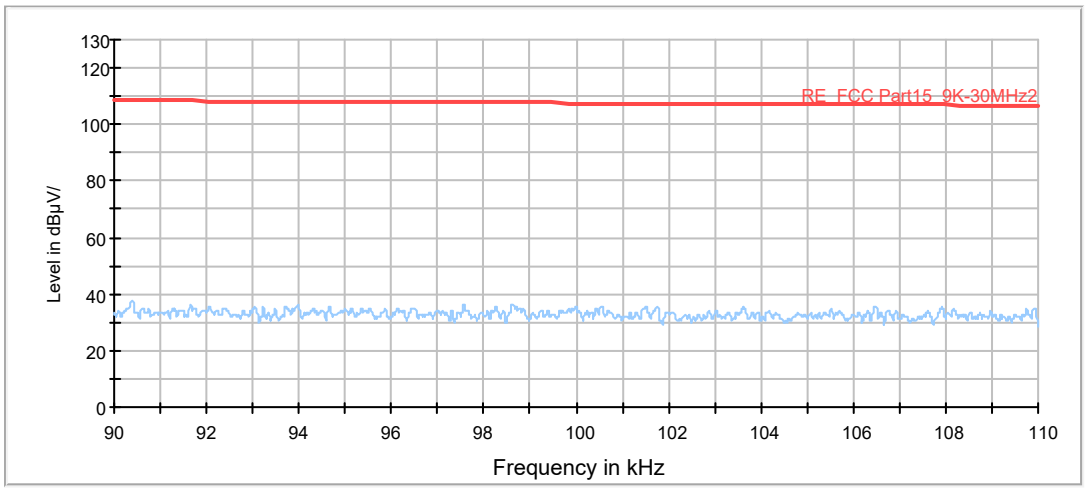
Continuous TX mode:

FCC RE 9K-90KHz AV



Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



Radiates Emission from 90KHz to 110KHz

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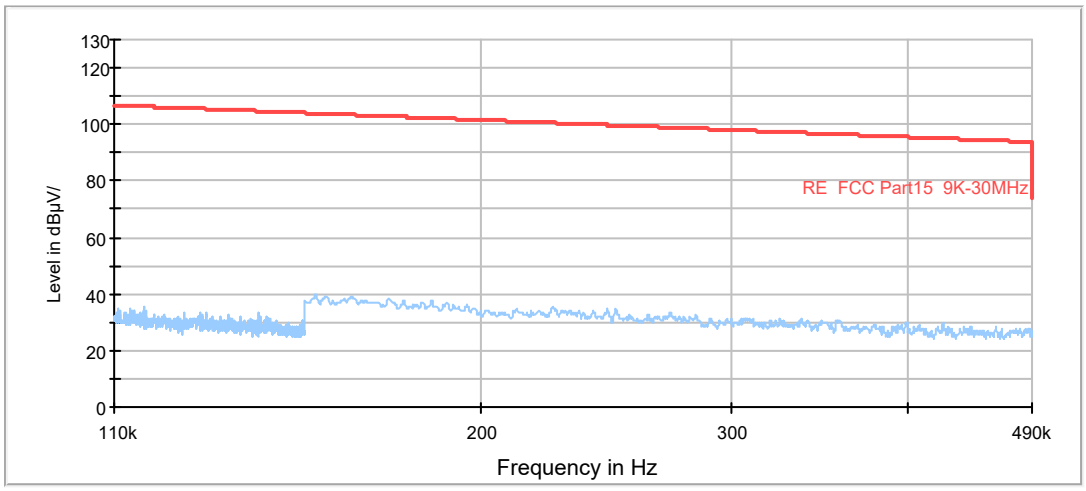
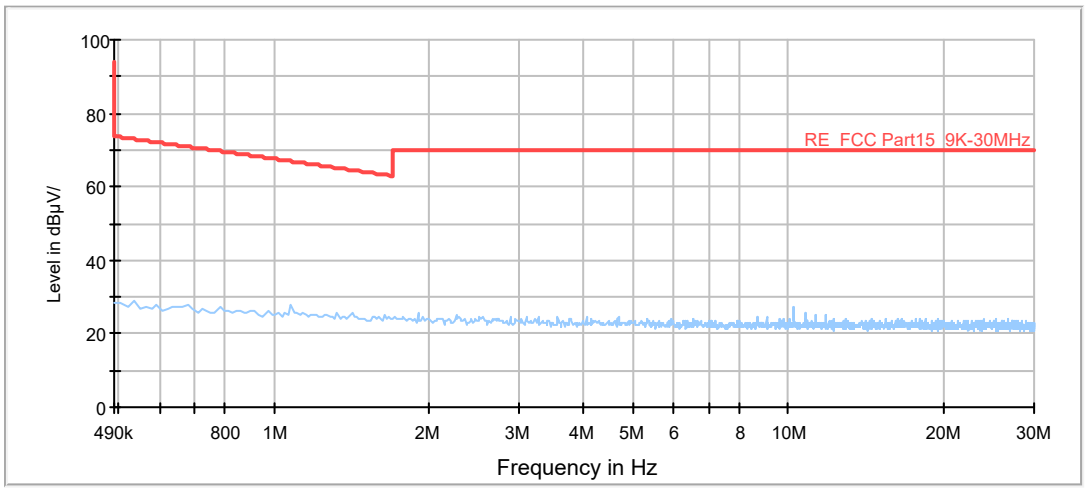
FCC RE 110K-490KHz AV



Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

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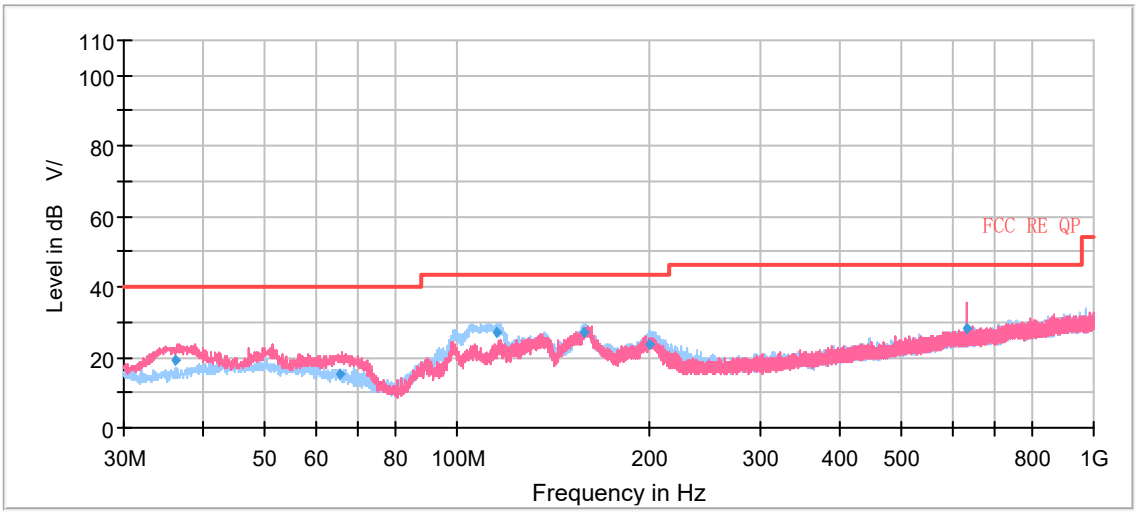
Wi-Fi 2.4G:



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.08	19.46	100.0	V	158.00	18	20.54	40.00
65.70	15.15	184.0	V	63.00	18	24.85	40.00
115.18	26.86	225.0	H	106.00	17	16.64	43.50
158.77	26.96	125.0	H	108.00	15	16.54	43.50
201.26	23.88	185.0	H	86.00	18	19.62	43.50
632.18	28.28	175.0	V	0.00	27	17.72	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

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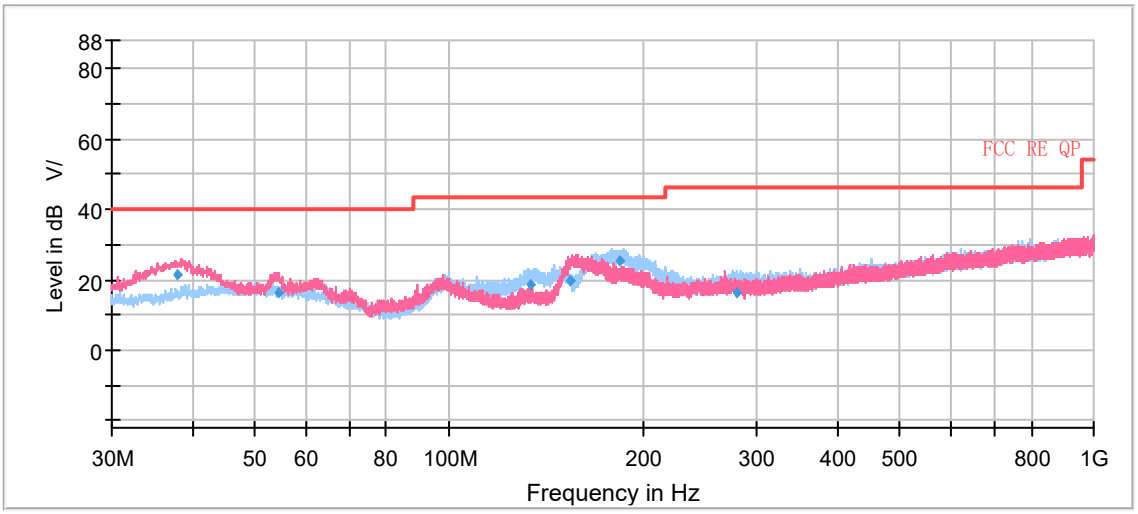
Bluetooth LE:



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.87	21.40	109.0	V	16.00	19	18.60	40.00
54.47	16.52	110.0	V	254.00	20	23.48	40.00
133.47	18.81	225.0	H	67.00	15	24.69	43.50
153.94	19.71	100.0	V	128.00	15	23.79	43.50
184.41	25.22	125.0	H	81.00	17	18.28	43.50
279.41	16.26	100.0	H	86.00	20	29.74	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

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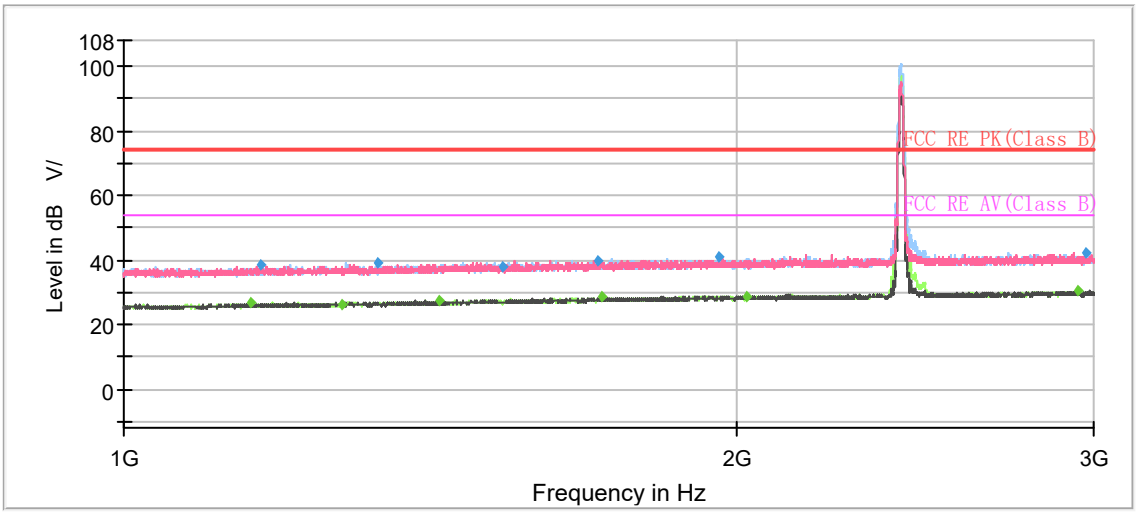
802.11b CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1154.50	---	26.52	54.00	27.48	500.00	100.0	H	12.00	0
1168.00	38.17	---	74.00	35.83	500.00	100.0	H	3.00	0
1281.50	---	26.40	54.00	27.60	500.00	200.0	H	202.00	1
1333.25	38.89	---	74.00	35.11	500.00	100.0	V	162.00	1
1429.75	---	27.25	54.00	26.75	500.00	200.0	V	286.00	2
1535.00	38.00	---	74.00	36.00	500.00	100.0	H	39.00	2
1709.50	39.82	---	74.00	34.18	500.00	200.0	H	334.00	3
1720.25	---	28.34	54.00	25.66	500.00	100.0	H	94.00	3
1963.25	40.70	---	74.00	33.30	500.00	200.0	V	108.00	3
2023.50	---	28.85	54.00	25.15	500.00	200.0	V	56.00	4
2948.25	---	30.45	54.00	23.55	500.00	200.0	H	343.00	6
2972.00	42.17	---	74.00	31.83	500.00	100.0	H	134.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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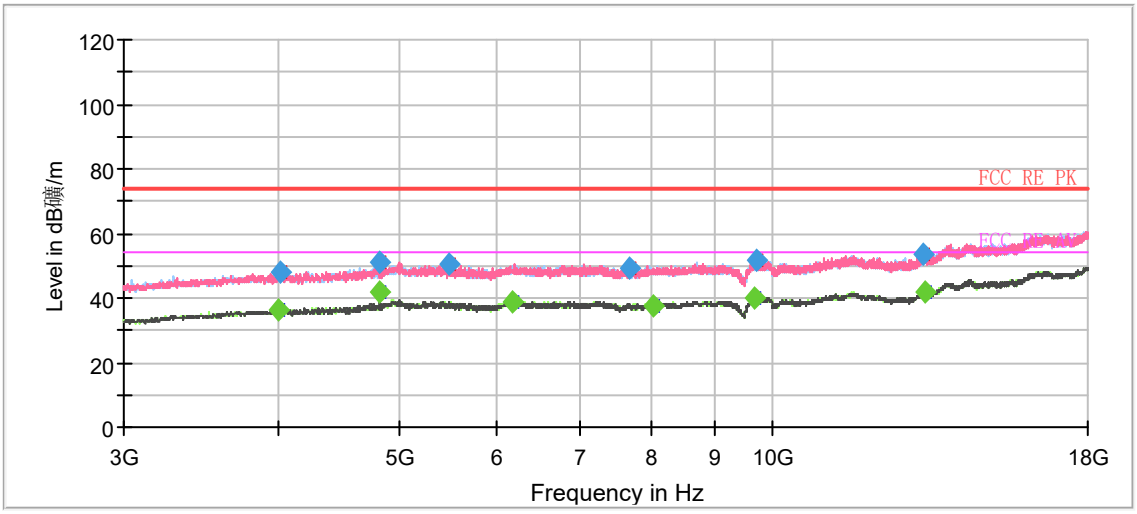

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
4001.250000	---	36.54	54.00	17.46	500.0	100.0	H	294.0	-11.4
4018.125000	47.96	---	74.00	26.04	500.0	100.0	H	288.0	-11.3
4822.500000	---	41.81	54.00	12.19	500.0	100.0	H	145.0	-9.1
4824.375000	50.90	---	74.00	23.10	500.0	100.0	V	142.0	-9.2
5490.000000	50.60	---	74.00	23.40	500.0	200.0	H	73.0	-7.4
6174.375000	---	38.94	54.00	15.06	500.0	200.0	H	293.0	-7.1
7678.125000	49.17	---	74.00	24.83	500.0	100.0	H	332.0	-6.5
8013.750000	---	37.56	54.00	16.44	500.0	100.0	H	316.0	-6.5
9697.500000	---	39.83	54.00	14.17	500.0	100.0	H	73.0	-4.6
9716.250000	51.75	---	74.00	22.25	500.0	100.0	V	98.0	-4.6
13231.875000	53.62	---	74.00	20.38	500.0	100.0	V	54.0	-1.8
13318.125000	---	41.99	54.00	12.01	500.0	100.0	V	65.0	-1.5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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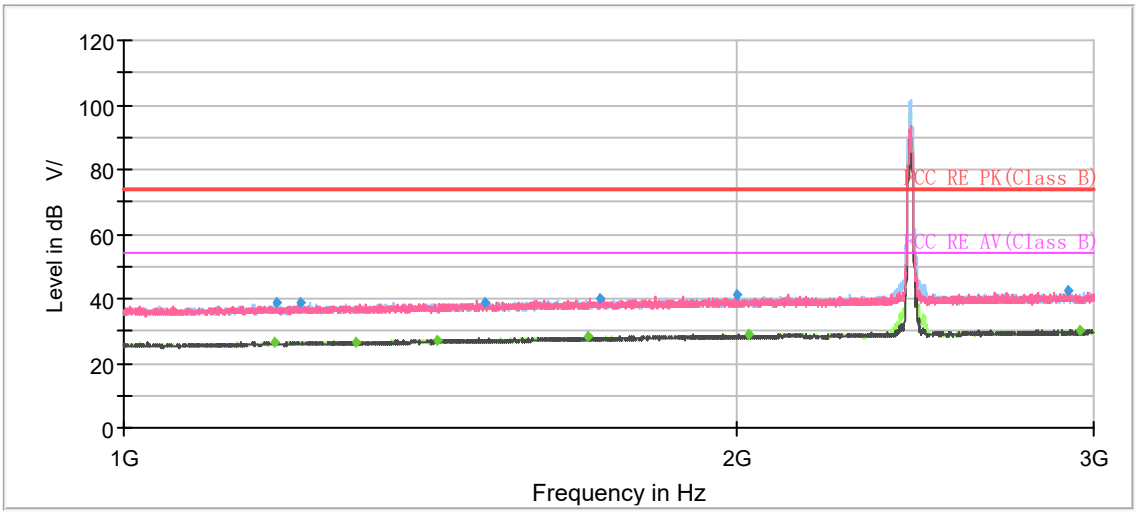
802.11b CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1186.00	---	26.46	54.00	27.54	500.00	100.0	H	340.00	1
1188.50	38.76	---	74.00	35.24	500.00	200.0	H	54.00	1
1221.25	38.79	---	74.00	35.21	500.00	200.0	H	203.00	1
1299.75	---	26.65	54.00	27.35	500.00	100.0	H	204.00	1
1427.00	---	27.07	54.00	26.93	500.00	100.0	H	308.00	2
1506.50	38.50	---	74.00	35.50	500.00	200.0	V	18.00	2
1691.25	---	28.10	54.00	25.90	500.00	200.0	H	327.00	3
1714.75	40.26	---	74.00	33.74	500.00	100.0	V	267.00	3
2003.50	41.45	---	74.00	32.55	500.00	100.0	V	322.00	4
2029.50	---	28.77	54.00	25.23	500.00	100.0	V	344.00	4
2916.25	42.43	---	74.00	31.57	500.00	200.0	V	243.00	6
2955.25	---	30.28	54.00	23.72	500.00	100.0	V	267.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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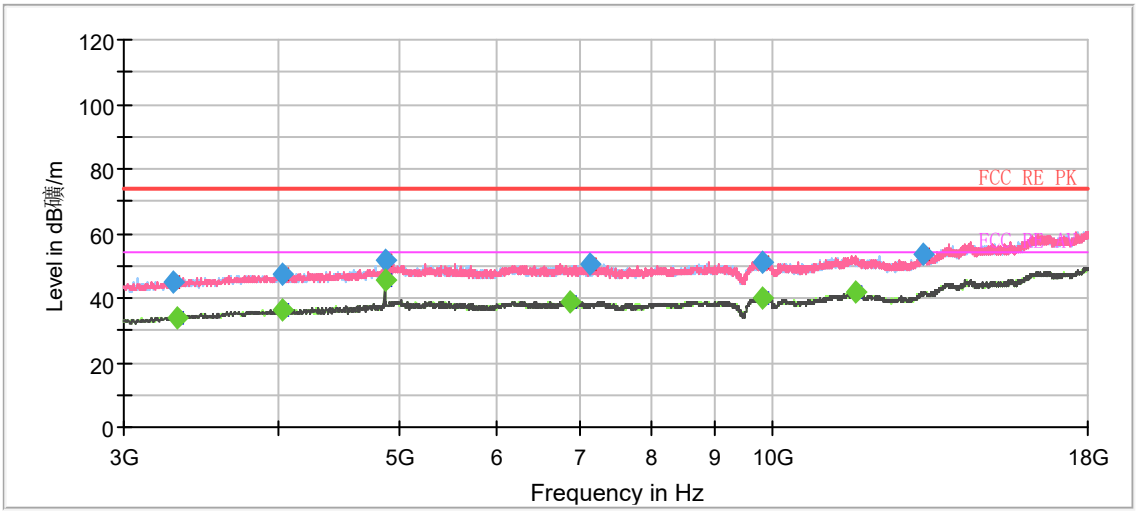

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3294.375000	44.71	---	74.00	29.29	500.0	200.0	H	218.0	-13.9
3311.250000	---	33.98	54.00	20.02	500.0	200.0	H	146.0	-13.9
4027.500000	---	36.40	54.00	17.60	500.0	100.0	H	11.0	-11.3
4031.250000	47.57	---	74.00	26.43	500.0	100.0	V	22.0	-11.3
4873.125000	---	45.52	54.00	8.48	500.0	100.0	H	356.0	-8.6
4873.125000	51.88	---	74.00	22.12	500.0	200.0	V	144.0	-8.6
6870.000000	---	38.90	54.00	15.10	500.0	200.0	H	273.0	-6.3
7132.500000	50.42	---	74.00	23.58	500.0	100.0	V	22.0	-6.2
9830.625000	51.30	---	74.00	22.70	500.0	100.0	V	0.0	-4.7
9840.000000	---	39.91	54.00	14.09	500.0	100.0	V	22.0	-4.7
11673.750000	---	41.88	54.00	12.12	500.0	200.0	H	256.0	-2.8
13241.250000	53.58	---	74.00	20.42	500.0	100.0	V	289.0	-1.7

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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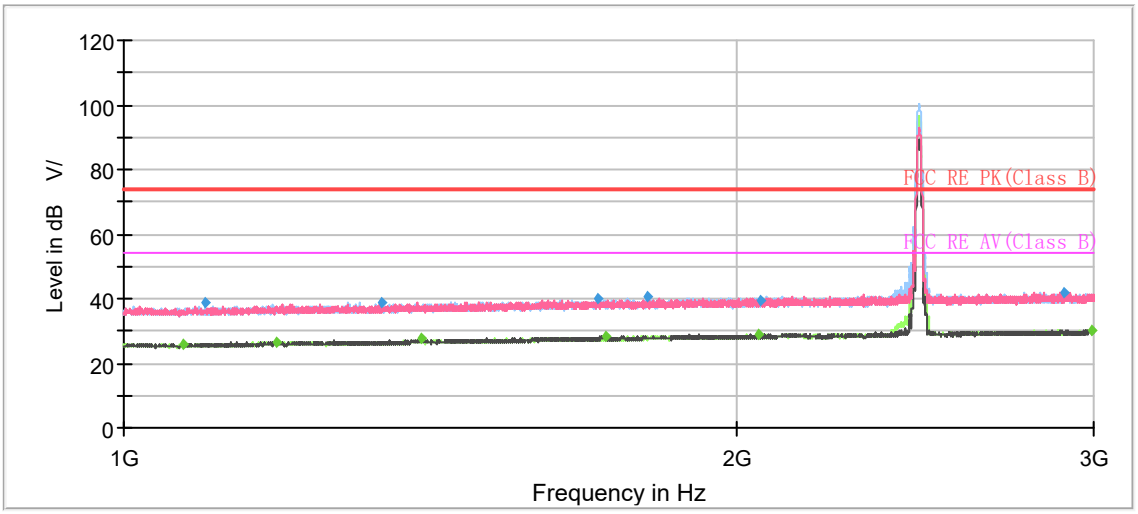
802.11b CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1070.00	---	25.73	54.00	28.27	500.00	200.0	H	277.00	0
1096.25	38.60	---	74.00	35.40	500.00	200.0	H	175.00	0
1188.75	---	26.76	54.00	27.24	500.00	200.0	H	126.00	1
1337.75	38.86	---	74.00	35.14	500.00	200.0	V	343.00	1
1402.25	---	27.45	54.00	26.55	500.00	100.0	V	188.00	2
1711.75	39.83	---	74.00	34.17	500.00	100.0	V	37.00	3
1725.50	---	28.11	54.00	25.89	500.00	100.0	V	54.00	3
1808.50	40.74	---	74.00	33.26	500.00	100.0	H	211.00	3
2050.25	---	28.82	54.00	25.18	500.00	200.0	H	119.00	4
2057.25	39.65	---	74.00	34.35	500.00	200.0	H	309.00	4
2897.75	41.98	---	74.00	32.02	500.00	200.0	V	286.00	6
2993.00	---	30.17	54.00	23.83	500.00	100.0	H	71.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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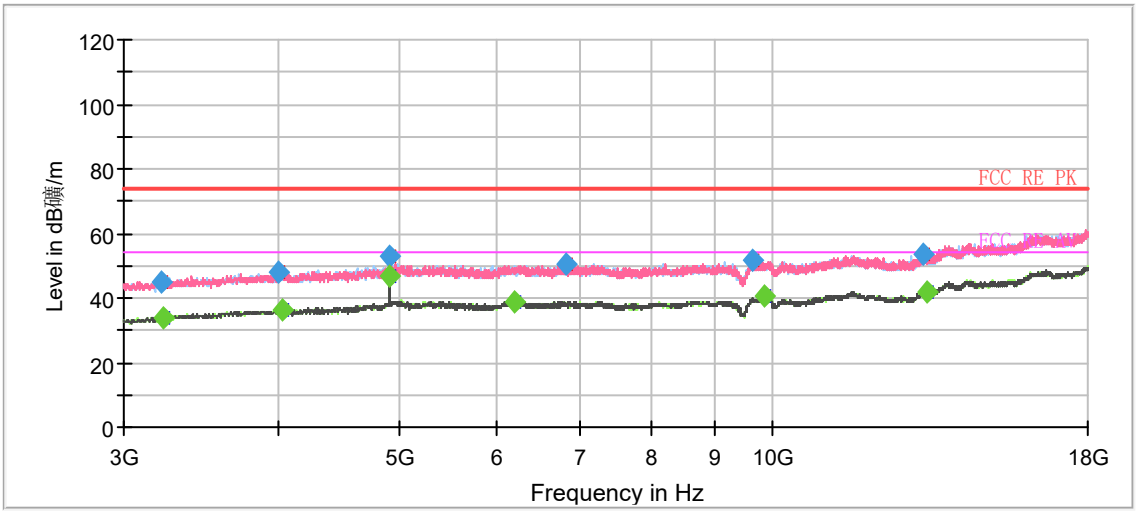

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3219.375000	44.74	---	74.00	29.26	500.0	100.0	H	260.0	-14.2
3234.375000	---	33.60	54.00	20.40	500.0	100.0	H	168.0	-14.2
3995.625000	48.20	---	74.00	25.80	500.0	100.0	V	10.0	-11.4
4027.500000	---	36.30	54.00	17.70	500.0	100.0	V	70.0	-11.3
4923.750000	53.18	---	74.00	20.82	500.0	100.0	V	145.0	-7.8
4923.750000	---	46.67	54.00	7.33	500.0	100.0	H	354.0	-7.8
6206.250000	---	39.00	54.00	15.00	500.0	100.0	H	195.0	-7.0
6838.125000	50.30	---	74.00	23.70	500.0	100.0	V	16.0	-6.3
9656.250000	51.40	---	74.00	22.60	500.0	100.0	H	195.0	-4.6
9868.125000	---	40.44	54.00	13.56	500.0	100.0	H	211.0	-4.6
13246.875000	53.41	---	74.00	20.59	500.0	200.0	V	0.0	-1.7
13333.125000	---	41.86	54.00	12.14	500.0	200.0	H	317.0	-1.5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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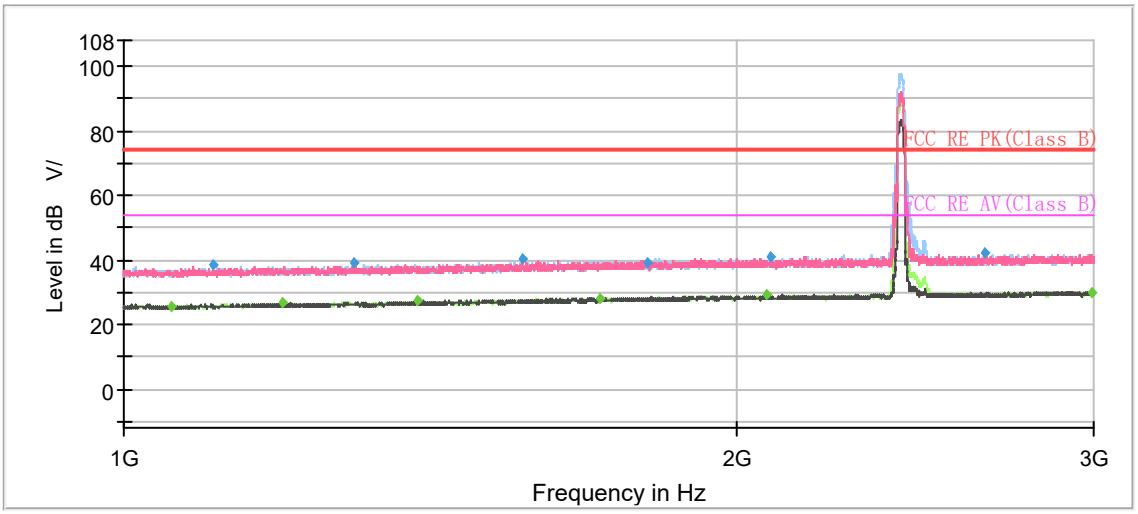
802.11g CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1055.75	---	25.69	54.00	28.31	500.00	100.0	H	41.00	0
1106.00	38.60	---	74.00	35.40	500.00	200.0	H	0.00	0
1196.50	---	26.52	54.00	27.48	500.00	100.0	V	351.00	1
1297.25	38.84	---	74.00	35.16	500.00	100.0	H	32.00	1
1394.75	---	27.31	54.00	26.69	500.00	200.0	H	76.00	2
1569.25	40.17	---	74.00	33.83	500.00	100.0	H	275.00	2
1716.25	---	28.20	54.00	25.80	500.00	200.0	H	356.00	3
1809.25	39.01	---	74.00	34.99	500.00	200.0	H	147.00	3
2073.00	---	28.95	54.00	25.05	500.00	100.0	V	233.00	4
2079.75	40.80	---	74.00	33.20	500.00	100.0	H	36.00	4
2654.25	41.96	---	74.00	32.04	500.00	100.0	V	113.00	5
2991.75	---	30.15	54.00	23.85	500.00	200.0	V	61.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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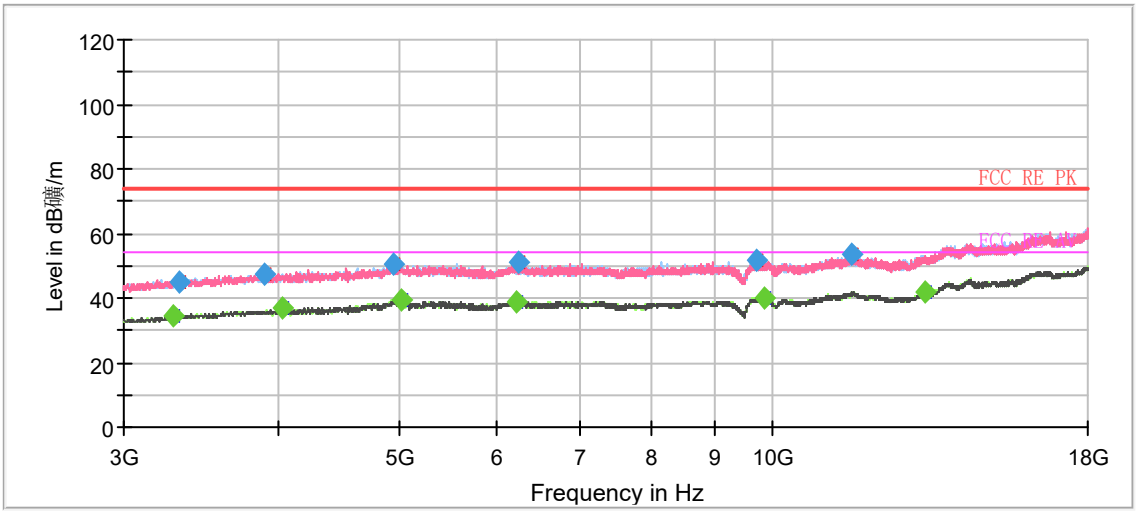

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3294.375000	---	34.32	54.00	19.68	500.0	200.0	V	191.0	-13.9
3320.625000	44.95	---	74.00	29.05	500.0	100.0	V	228.0	-13.9
3892.500000	47.27	---	74.00	26.73	500.0	100.0	V	44.0	-12.0
4021.875000	---	36.62	54.00	17.38	500.0	100.0	V	168.0	-11.3
4955.625000	50.47	---	74.00	23.53	500.0	100.0	V	323.0	-7.6
5028.750000	---	39.32	54.00	14.68	500.0	200.0	H	102.0	-7.7
6234.375000	---	38.90	54.00	15.10	500.0	200.0	V	296.0	-6.9
6258.750000	50.81	---	74.00	23.19	500.0	200.0	V	218.0	-6.9
9712.500000	51.83	---	74.00	22.17	500.0	200.0	H	107.0	-4.6
9871.875000	---	40.01	54.00	13.99	500.0	100.0	H	121.0	-4.6
11623.125000	53.46	---	74.00	20.54	500.0	100.0	V	312.0	-2.8
13293.750000	---	41.86	54.00	12.14	500.0	100.0	H	248.0	-1.6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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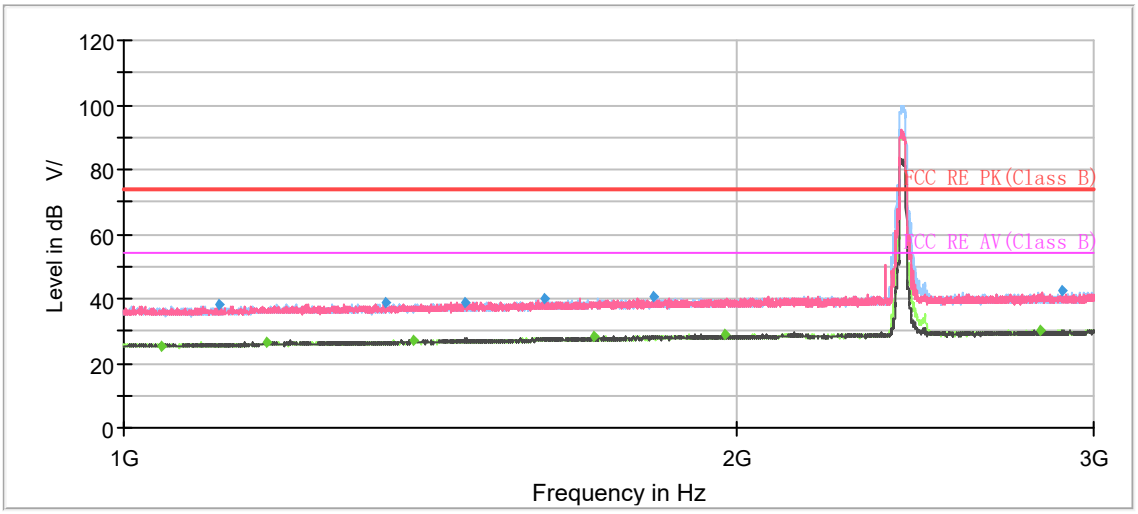
802.11g CH2



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1043.50	---	25.24	54.00	28.76	500.00	200.0	H	344.00	0
1114.25	37.89	---	74.00	36.11	500.00	100.0	H	359.00	0
1176.75	---	26.67	54.00	27.33	500.00	100.0	H	104.00	0
1345.75	38.81	---	74.00	35.19	500.00	100.0	V	286.00	1
1387.25	---	27.04	54.00	26.96	500.00	200.0	H	270.00	1
1473.25	38.70	---	74.00	35.30	500.00	100.0	V	6.00	2
1610.00	39.84	---	74.00	34.16	500.00	100.0	H	203.00	2
1702.25	---	28.15	54.00	25.85	500.00	100.0	H	230.00	3
1822.50	40.63	---	74.00	33.37	500.00	200.0	V	241.00	3
1975.75	---	28.98	54.00	25.02	500.00	200.0	H	165.00	3
2820.50	---	30.30	54.00	23.70	500.00	100.0	V	277.00	5
2894.75	42.27	---	74.00	31.73	500.00	100.0	V	222.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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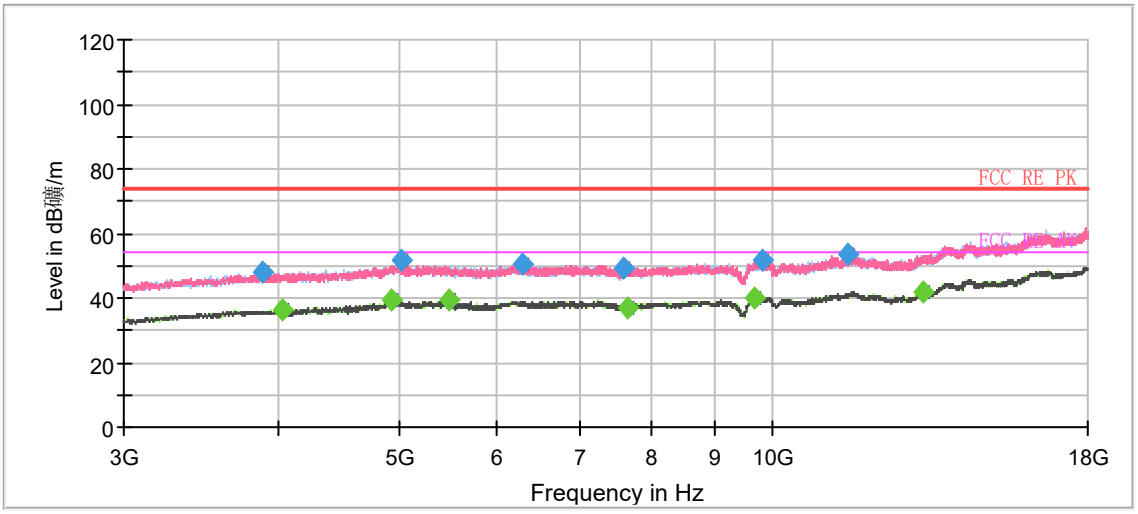

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3886.875000	48.09	---	74.00	25.91	500.0	100.0	V	32.0	-12.0
4021.875000	---	36.30	54.00	17.70	500.0	100.0	V	1.0	-11.3
4942.500000	---	39.30	54.00	14.70	500.0	100.0	V	150.0	-7.7
5026.875000	51.68	---	74.00	22.32	500.0	100.0	V	57.0	-7.7
5488.125000	---	39.51	54.00	14.49	500.0	200.0	V	32.0	-7.5
6290.625000	50.18	---	74.00	23.82	500.0	100.0	V	117.0	-6.8
7597.500000	49.38	---	74.00	24.62	500.0	100.0	H	0.0	-6.5
7661.250000	---	36.90	54.00	17.10	500.0	200.0	H	1.0	-6.5
9699.375000	---	40.19	54.00	13.81	500.0	200.0	V	316.0	-4.6
9841.875000	51.45	---	74.00	22.55	500.0	100.0	H	264.0	-4.7
11535.000000	53.42	---	74.00	20.58	500.0	100.0	H	302.0	-3.1
13260.000000	---	42.08	54.00	11.92	500.0	100.0	V	177.0	-1.7

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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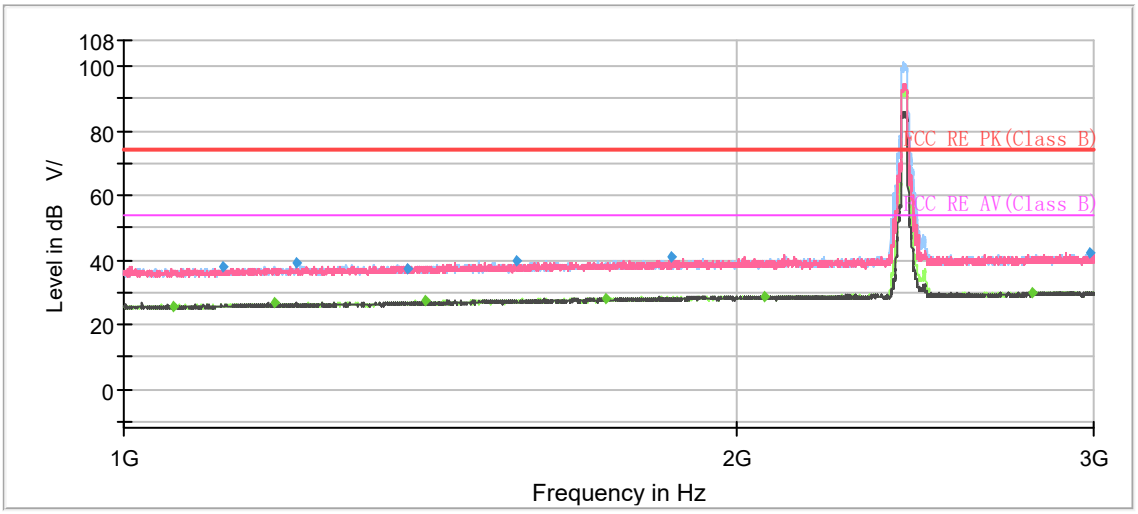
802.11g CH3



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1057.00	---	25.31	54.00	28.69	500.00	100.0	H	85.00	0
1119.75	38.13	---	74.00	35.87	500.00	100.0	V	332.00	0
1186.00	---	26.58	54.00	27.42	500.00	200.0	H	179.00	1
1216.00	39.14	---	74.00	34.86	500.00	100.0	H	41.00	1
1380.25	37.23	---	74.00	36.77	500.00	100.0	H	85.00	1
1408.50	---	27.15	54.00	26.85	500.00	200.0	H	243.00	2
1560.00	39.52	---	74.00	34.48	500.00	200.0	H	333.00	2
1728.00	---	28.16	54.00	25.84	500.00	200.0	V	77.00	3
1858.25	41.01	---	74.00	32.99	500.00	200.0	V	235.00	3
2066.00	---	28.76	54.00	25.24	500.00	200.0	H	216.00	4
2799.50	---	30.06	54.00	23.94	500.00	200.0	V	63.00	5
2989.00	42.05	---	74.00	31.95	500.00	200.0	V	115.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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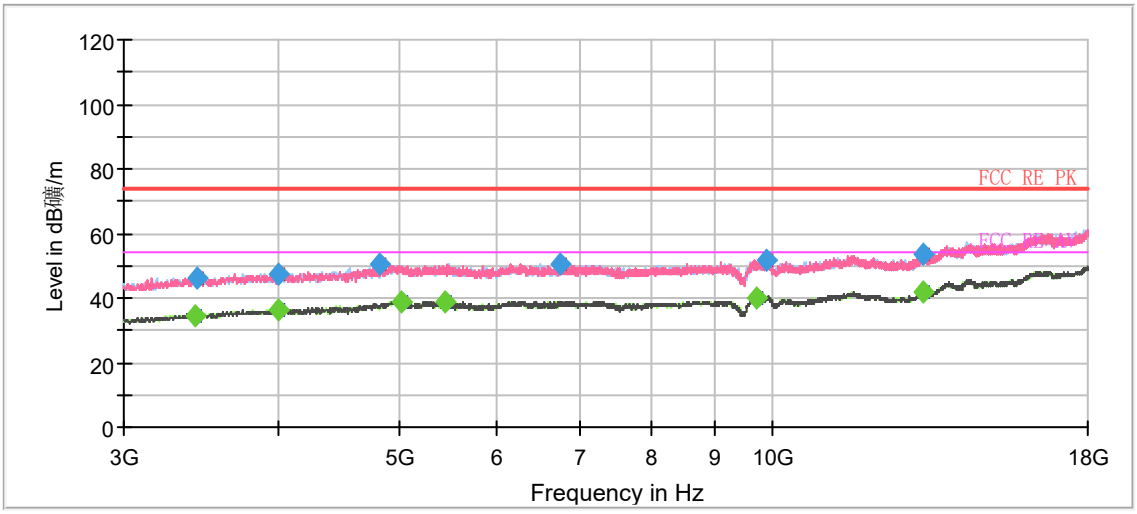

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3429.375000	---	34.32	54.00	19.68	500.0	200.0	H	173.0	-13.4
3436.875000	46.09	---	74.00	27.91	500.0	200.0	V	40.0	-13.4
3997.500000	---	36.35	54.00	17.65	500.0	200.0	H	228.0	-11.4
3997.500000	47.54	---	74.00	26.46	500.0	200.0	H	228.0	-11.4
4833.750000	50.20	---	74.00	23.80	500.0	200.0	H	195.0	-9.1
5028.750000	---	39.04	54.00	14.96	500.0	100.0	H	191.0	-7.7
5460.000000	---	39.01	54.00	14.99	500.0	200.0	H	18.0	-7.5
6753.750000	50.61	---	74.00	23.39	500.0	200.0	H	108.0	-6.2
9727.500000	---	40.19	54.00	13.81	500.0	200.0	V	201.0	-4.7
9892.500000	51.85	---	74.00	22.15	500.0	200.0	V	234.0	-4.6
13250.625000	---	41.80	54.00	12.20	500.0	100.0	H	124.0	-1.7
13278.750000	53.29	---	74.00	20.71	500.0	100.0	H	335.0	-1.6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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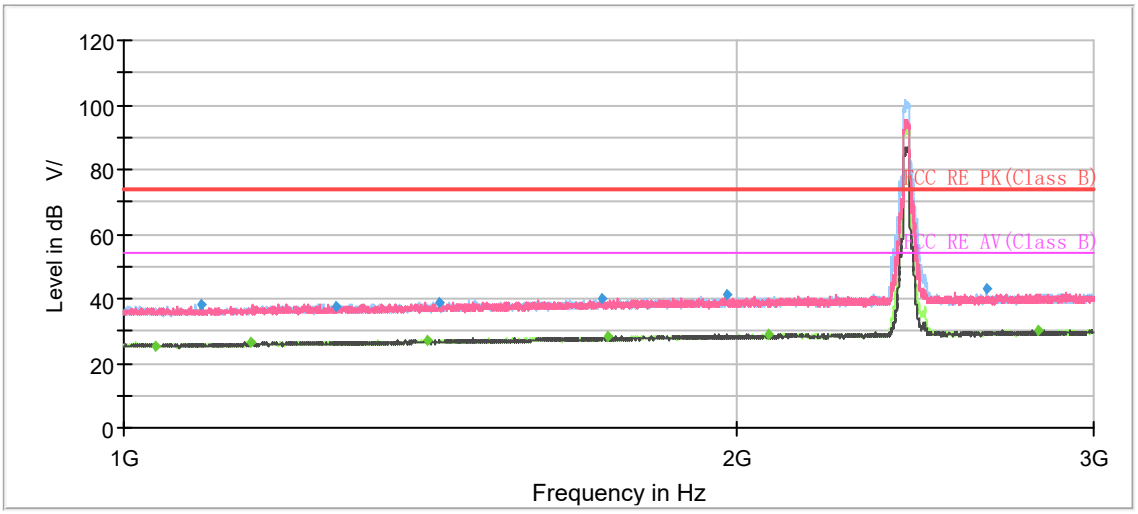
802.11g CH4



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1035.50	---	25.48	54.00	28.52	500.00	200.0	H	236.00	0
1090.50	38.45	---	74.00	35.55	500.00	100.0	V	137.00	0
1153.50	---	26.55	54.00	27.45	500.00	100.0	H	141.00	0
1271.50	37.71	---	74.00	36.29	500.00	100.0	V	334.00	1
1410.25	---	27.10	54.00	26.90	500.00	200.0	V	174.00	2
1429.25	38.98	---	74.00	35.02	500.00	100.0	H	188.00	2
1718.50	39.86	---	74.00	34.14	500.00	100.0	V	54.00	3
1731.25	---	28.28	54.00	25.72	500.00	200.0	H	214.00	3
1980.25	41.14	---	74.00	32.86	500.00	200.0	H	250.00	3
2076.75	---	28.94	54.00	25.06	500.00	100.0	H	266.00	4
2659.00	42.78	---	74.00	31.22	500.00	100.0	H	58.00	5
2814.50	---	30.30	54.00	23.70	500.00	100.0	H	244.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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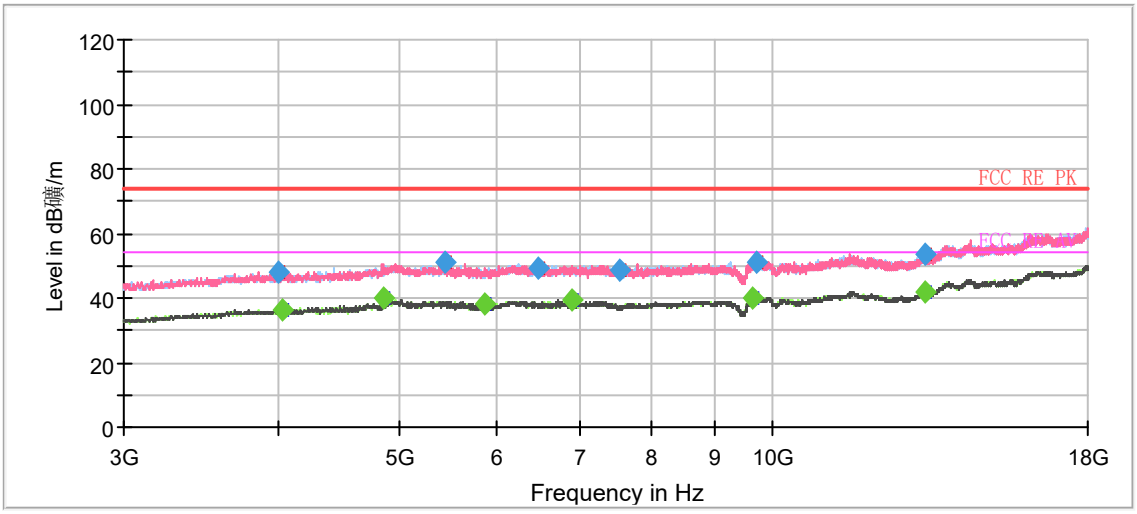

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
4001.250000	47.77	---	74.00	26.23	500.0	100.0	H	221.0	-11.4
4023.750000	---	36.47	54.00	17.53	500.0	100.0	H	90.0	-11.3
4854.375000	---	40.05	54.00	13.95	500.0	100.0	V	137.0	-8.8
5456.250000	51.09	---	74.00	22.91	500.0	200.0	H	117.0	-7.5
5859.375000	---	37.85	54.00	16.15	500.0	200.0	H	234.0	-7.9
6493.125000	49.35	---	74.00	24.65	500.0	200.0	H	0.0	-6.7
6896.250000	---	39.12	54.00	14.88	500.0	200.0	H	112.0	-6.3
7531.875000	48.83	---	74.00	25.17	500.0	100.0	H	0.0	-6.5
9665.625000	---	40.19	54.00	13.81	500.0	100.0	H	321.0	-4.6
9735.000000	51.36	---	74.00	22.64	500.0	100.0	H	266.0	-4.7
13301.250000	---	42.07	54.00	11.93	500.0	200.0	H	123.0	-1.6
13305.000000	53.70	---	74.00	20.30	500.0	100.0	H	238.0	-1.6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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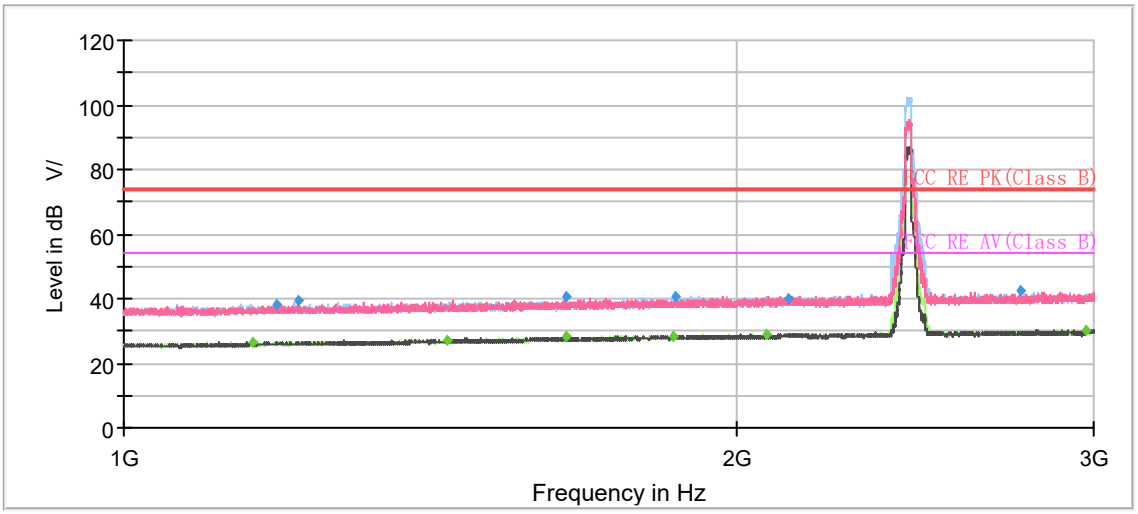
802.11g CH5



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1156.00	---	26.36	54.00	27.64	500.00	100.0	V	139.00	0
1189.25	38.12	---	74.00	35.88	500.00	200.0	H	281.00	1
1219.50	39.14	---	74.00	34.86	500.00	200.0	V	63.00	1
1441.00	---	27.17	54.00	26.83	500.00	200.0	V	59.00	2
1649.75	---	28.14	54.00	25.86	500.00	200.0	H	189.00	3
1651.25	40.37	---	74.00	33.63	500.00	100.0	H	17.00	3
1861.25	---	28.36	54.00	25.64	500.00	200.0	H	226.00	3
1868.50	40.85	---	74.00	33.15	500.00	100.0	V	36.00	3
2070.25	---	28.94	54.00	25.06	500.00	200.0	V	18.00	4
2122.25	39.75	---	74.00	34.25	500.00	100.0	H	34.00	4
2762.75	42.35	---	74.00	31.65	500.00	100.0	V	81.00	5
2976.25	---	30.23	54.00	23.77	500.00	200.0	H	193.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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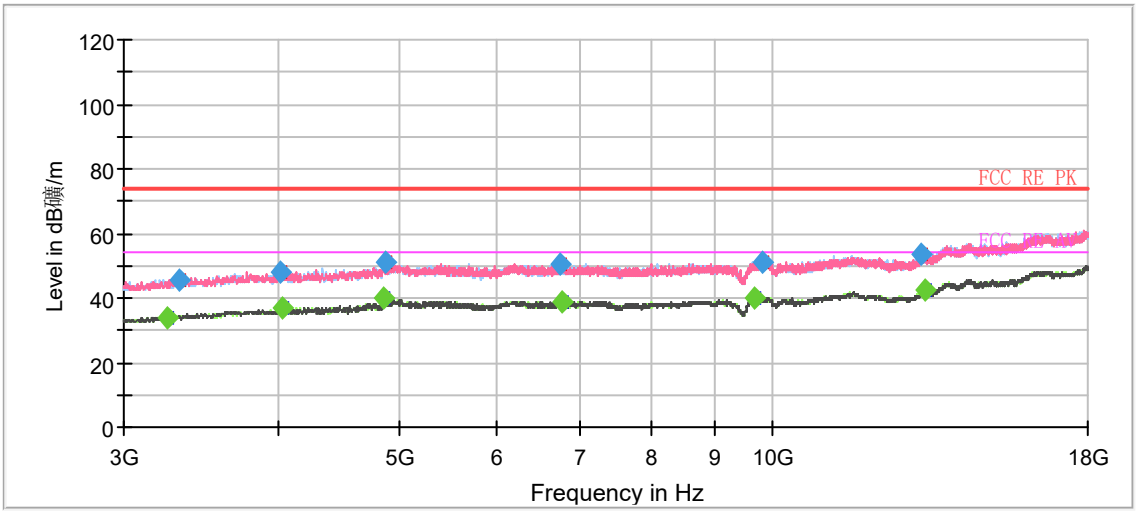

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3249.375000	---	33.81	54.00	20.19	500.0	100.0	H	333.0	-14.1
3320.625000	45.23	---	74.00	28.77	500.0	100.0	V	91.0	-13.9
4016.250000	47.85	---	74.00	26.15	500.0	200.0	V	289.0	-11.3
4025.625000	---	36.86	54.00	17.14	500.0	100.0	V	218.0	-11.3
4860.000000	---	39.87	54.00	14.13	500.0	100.0	H	333.0	-8.8
4875.000000	50.93	---	74.00	23.07	500.0	100.0	V	301.0	-8.6
6751.875000	50.38	---	74.00	23.62	500.0	200.0	V	328.0	-6.2
6781.875000	---	39.03	54.00	14.97	500.0	200.0	V	295.0	-6.2
9697.500000	---	40.17	54.00	13.83	500.0	200.0	V	317.0	-4.6
9847.500000	51.38	---	74.00	22.62	500.0	200.0	H	231.0	-4.6
13186.875000	53.33	---	74.00	20.67	500.0	100.0	H	0.0	-1.9
13286.250000	---	42.47	54.00	11.53	500.0	100.0	V	301.0	-1.6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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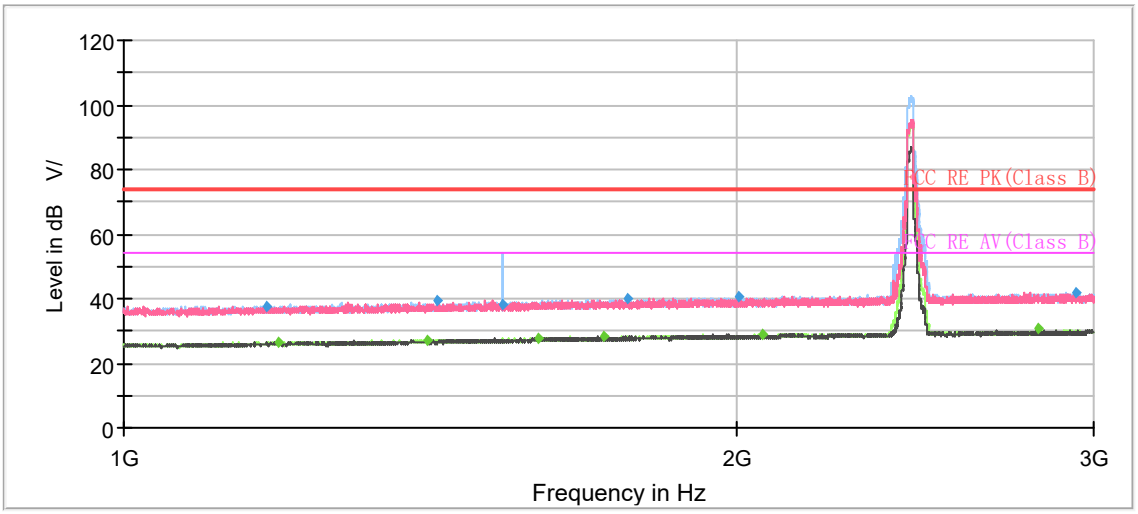
802.11g CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1175.75	37.82	---	74.00	36.18	500.00	100.0	V	172.00	0
1190.50	---	26.44	54.00	27.56	500.00	100.0	H	230.00	1
1409.25	---	27.23	54.00	26.77	500.00	100.0	H	199.00	2
1426.25	39.16	---	74.00	34.84	500.00	100.0	H	25.00	2
1537.50	38.11	---	74.00	35.89	500.00	100.0	H	245.00	2
1598.00	---	27.77	54.00	26.23	500.00	100.0	V	249.00	2
1722.75	---	28.22	54.00	25.78	500.00	100.0	V	304.00	3
1771.00	40.02	---	74.00	33.98	500.00	200.0	V	225.00	3
2007.25	40.34	---	74.00	33.66	500.00	200.0	V	169.00	4
2061.75	---	28.85	54.00	25.15	500.00	100.0	H	332.00	4
2815.25	---	30.51	54.00	23.49	500.00	100.0	V	157.00	5
2938.25	42.01	---	74.00	31.99	500.00	200.0	H	345.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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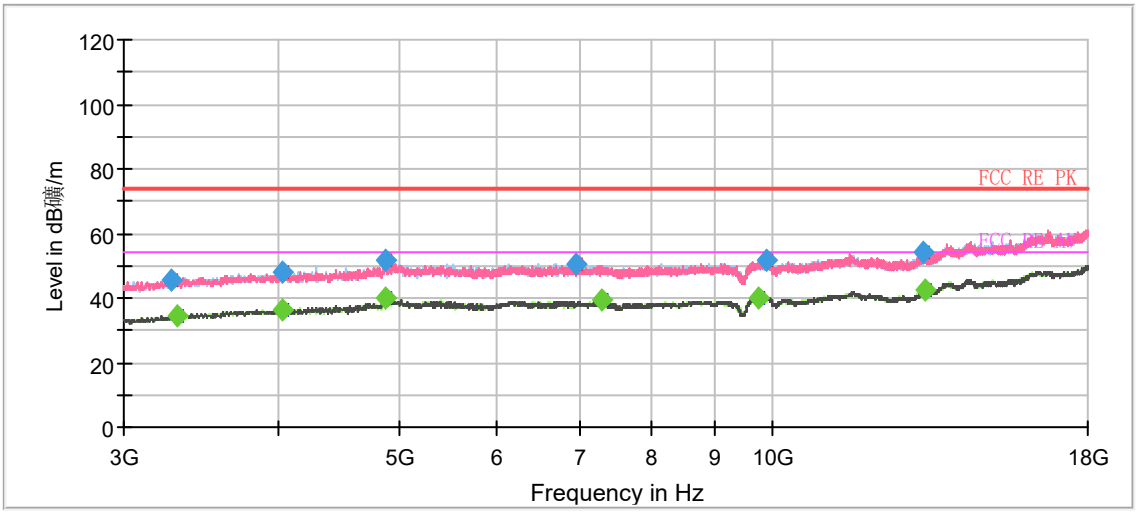

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3271.875000	45.43	---	74.00	28.57	500.0	100.0	H	33.0	-14.0
3316.875000	---	34.17	54.00	19.83	500.0	200.0	H	187.0	-13.9
4023.750000	47.84	---	74.00	26.16	500.0	200.0	V	140.0	-11.3
4025.625000	---	36.29	54.00	17.71	500.0	200.0	V	284.0	-11.3
4873.125000	---	39.72	54.00	14.28	500.0	100.0	H	122.0	-8.6
4882.500000	52.00	---	74.00	22.00	500.0	100.0	H	117.0	-8.5
6956.250000	50.75	---	74.00	23.25	500.0	200.0	H	88.0	-6.4
7297.500000	---	39.08	54.00	14.92	500.0	200.0	V	262.0	-5.9
9766.875000	---	40.19	54.00	13.81	500.0	200.0	V	156.0	-4.8
9898.125000	51.54	---	74.00	22.46	500.0	100.0	H	177.0	-4.6
13271.250000	54.05	---	74.00	19.95	500.0	200.0	H	2.0	-1.7
13314.375000	---	42.21	54.00	11.79	500.0	100.0	V	58.0	-1.5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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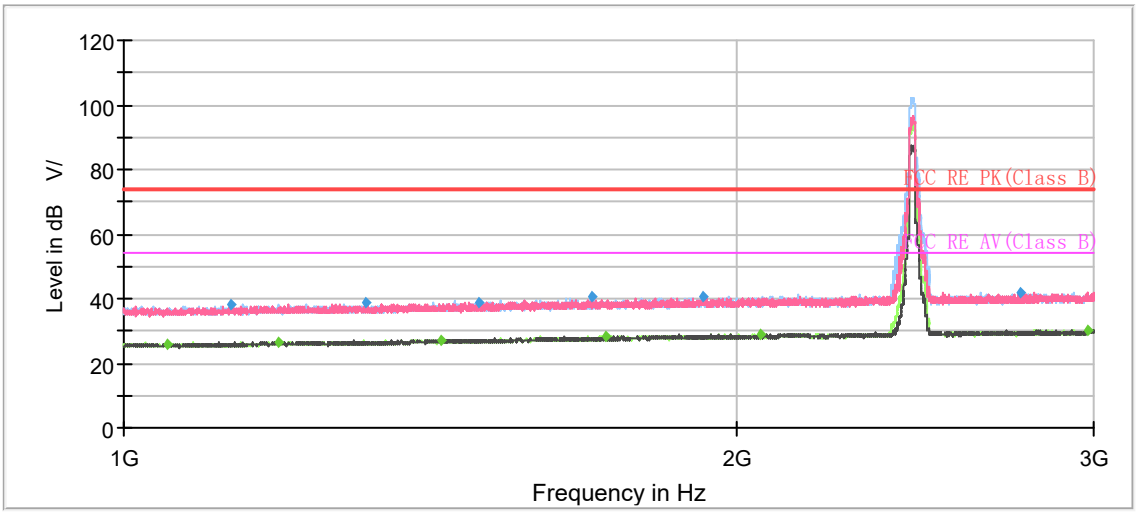
802.11g CH7



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1050.00	---	26.06	54.00	27.94	500.00	100.0	H	108.00	0
1128.75	38.04	---	74.00	35.96	500.00	200.0	V	305.00	0
1191.50	---	26.56	54.00	27.44	500.00	200.0	H	201.00	1
1314.25	38.91	---	74.00	35.09	500.00	100.0	V	331.00	1
1431.75	---	27.26	54.00	26.74	500.00	200.0	H	68.00	2
1494.00	38.98	---	74.00	35.02	500.00	100.0	H	0.00	2
1697.50	40.37	---	74.00	33.63	500.00	200.0	H	196.00	3
1727.75	---	28.27	54.00	25.73	500.00	200.0	H	45.00	3
1925.75	40.71	---	74.00	33.29	500.00	100.0	H	222.00	3
2058.00	---	28.99	54.00	25.01	500.00	100.0	V	208.00	4
2763.00	41.93	---	74.00	32.07	500.00	200.0	H	81.00	5
2983.00	---	30.36	54.00	23.64	500.00	200.0	V	287.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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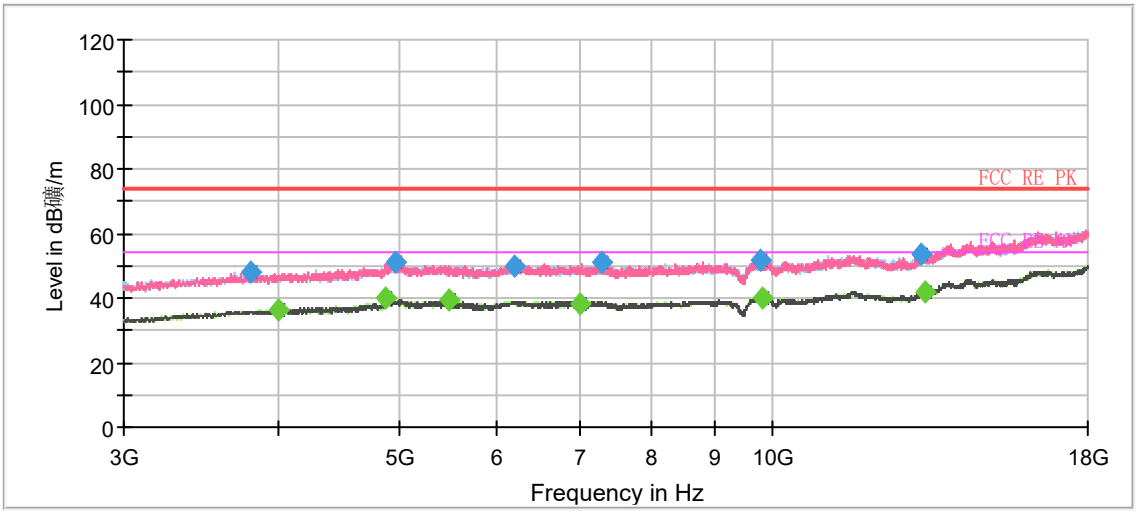

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
3804.375000	47.96	---	74.00	26.04	500.0	100.0	H	281.0	-12.0
4001.250000	---	36.45	54.00	17.55	500.0	100.0	V	9.0	-11.4
4880.625000	---	40.17	54.00	13.83	500.0	100.0	V	124.0	-8.5
4966.875000	51.36	---	74.00	22.64	500.0	200.0	V	162.0	-7.5
5488.125000	---	39.10	54.00	14.90	500.0	100.0	V	15.0	-7.5
6202.500000	49.82	---	74.00	24.18	500.0	200.0	V	255.0	-7.0
7005.000000	---	38.13	54.00	15.87	500.0	200.0	H	66.0	-6.4
7297.500000	50.81	---	74.00	23.19	500.0	200.0	V	298.0	-5.9
9804.375000	51.69	---	74.00	22.31	500.0	100.0	H	206.0	-4.7
9834.375000	---	39.99	54.00	14.01	500.0	200.0	H	254.0	-4.7
13218.750000	53.68	---	74.00	20.32	500.0	100.0	H	101.0	-1.8
13306.875000	---	42.08	54.00	11.92	500.0	100.0	H	281.0	-1.6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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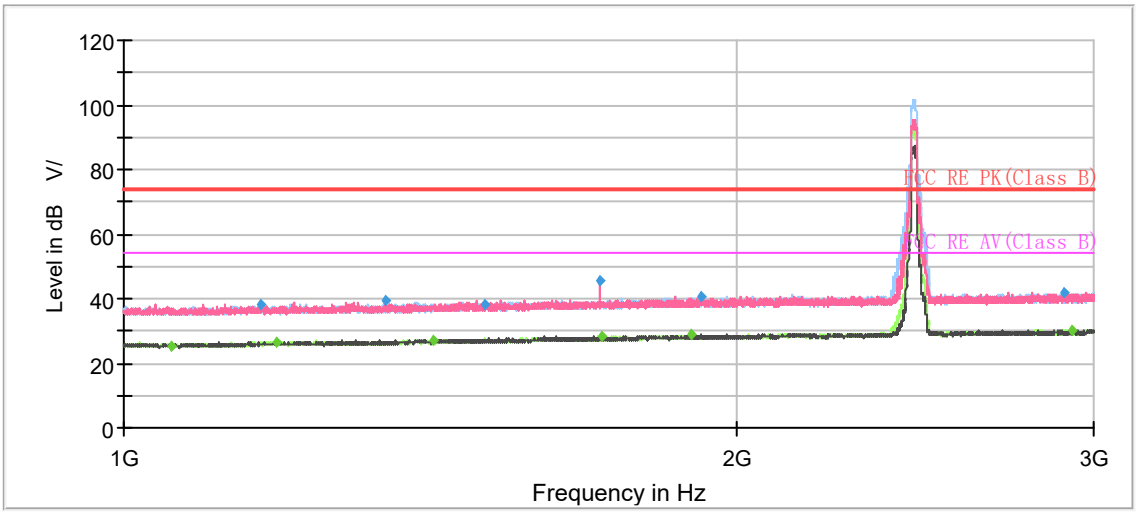
802.11g CH8



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1055.50	---	25.38	54.00	28.62	500.00	100.0	H	53.00	0
1168.00	38.02	---	74.00	35.98	500.00	100.0	V	11.00	0
1187.75	---	26.51	54.00	27.49	500.00	100.0	V	51.00	1
1343.75	39.60	---	74.00	34.40	500.00	100.0	H	152.00	1
1419.75	---	27.24	54.00	26.76	500.00	200.0	H	315.00	2
1506.00	38.14	---	74.00	35.86	500.00	200.0	H	152.00	2
1715.25	45.27	---	74.00	28.73	500.00	200.0	V	110.00	3
1720.25	---	28.46	54.00	25.54	500.00	200.0	V	191.00	3
1902.00	---	28.87	54.00	25.13	500.00	200.0	H	183.00	3
1921.50	40.76	---	74.00	33.24	500.00	200.0	V	276.00	3
2903.00	41.93	---	74.00	32.07	500.00	200.0	H	0.00	6
2923.50	---	30.15	54.00	23.85	500.00	100.0	H	152.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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