FCC Test Report

Product Name ： Wireless-AC2200 Tri Band Gigabit Router

Trade Name ： ASUS

Model No. ： Lyra Voice

FCC ID. ： MSQ-RTHU00

Applicant ： ASUSTeK COMPUTER INC.

Address ： 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt ： Jun. 24, 2018

Issued Date ： Oct. 29, 2018

Report No. ： 1860341R-RFUSP01V00-A

Report Version ： V1.0

Testing Laboratory

3024

The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Oct. 29, 2018
Report No. : 1860341R-RFUSP01V00-A

Product Name	:	Wireless-AC2200 Tri Band Gigabit Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Trade name	:	ASUS
Model No.	:	Lyra Voice
FCC ID.	:	MSQ-RTHU00
EUT Voltage	:	AC 100-240V, 50-60Hz
Testing Voltage	:	AC 120V/60Hz
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2017 ANSI C63.10: 2013
Laboratory Name	:	Hsin Chu Laboratory
Address	:	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C. TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result	:	Complied

Documented By : Carol Tsai

(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By : Elwin Lin

(Elwin Lin / Engineer)

Approved By : Roy Wang

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1860341R-RFUSP01V00-A	V1.0	Initial issue of report	Oct. 29, 2018

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1. General Information

1.1. EUT Description

Product Name	Wireless-AC2200 Tri Band Gigabit Router
Trade Name	ASUS
Model No.	Lyra Voice
Frequency Range/Channel Number	2402~2480MHz / 79 Channels
Type of Modulation	GFSK, π/4-DQPSK, 8-DPSK

Antenna Information	
Antenna Type	PCB Dipole Antenna
Antenna Gain	1.96dBi

Accessories Information	
LAN Cable	Non-Shielded, 1.4m
Power Adapter	DELTA, ADP-45BW B I/P : 100-240V~1.2A 50-60Hz O/P : 19V ⎓ 2.37A Cable Out: Non-Shielded, 2.2m
Power Adapter	DELTA, ADP-45BW Y I/P : 100-240V~50-60Hz 1.2A O/P : 19V ⎓ 2.37A Cable Out: Non-Shielded, 2.2m
Power Adapter	PI, AD2066320 I/P : 100-240V~50/60Hz 1.0A O/P : 19V ⎓ 2.37A Cable Out: Non-Shielded, 2.2m
Power Adapter	PI, AD883J20 I/P : 100-240V 1.0A 50/60Hz O/P : 19V ⎓ 2.37A Cable Out: Non-Shielded, 2.2m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 20	2422 MHz	Channel 40	2442 MHz	Channel 60	2462 MHz
Channel 01	2403 MHz	Channel 21	2423 MHz	Channel 41	2443 MHz	Channel 61	2463 MHz
Channel 02	2404 MHz	Channel 22	2424 MHz	Channel 42	2444 MHz	Channel 62	2464 MHz
Channel 03	2405 MHz	Channel 23	2425 MHz	Channel 43	2445 MHz	Channel 63	2465 MHz
Channel 04	2406 MHz	Channel 24	2426 MHz	Channel 44	2446 MHz	Channel 64	2466 MHz
Channel 05	2407 MHz	Channel 25	2427 MHz	Channel 45	2447 MHz	Channel 65	2467 MHz
Channel 06	2408 MHz	Channel 26	2428 MHz	Channel 46	2448 MHz	Channel 66	2468 MHz
Channel 07	2409 MHz	Channel 27	2429 MHz	Channel 47	2449 MHz	Channel 67	2469 MHz
Channel 08	2410 MHz	Channel 28	2430 MHz	Channel 48	2450 MHz	Channel 68	2470 MHz
Channel 09	2411 MHz	Channel 29	2431 MHz	Channel 49	2451 MHz	Channel 69	2471 MHz
Channel 10	2412 MHz	Channel 30	2432 MHz	Channel 50	2452 MHz	Channel 70	2472 MHz
Channel 11	2413 MHz	Channel 31	2433 MHz	Channel 51	2453 MHz	Channel 71	2473 MHz
Channel 12	2414 MHz	Channel 32	2434 MHz	Channel 52	2454 MHz	Channel 72	2474 MHz
Channel 13	2415 MHz	Channel 33	2435 MHz	Channel 53	2455 MHz	Channel 73	2475 MHz
Channel 14	2416 MHz	Channel 34	2436 MHz	Channel 54	2456 MHz	Channel 74	2476 MHz
Channel 15	2417 MHz	Channel 35	2437 MHz	Channel 55	2457 MHz	Channel 75	2477 MHz
Channel 16	2418 MHz	Channel 36	2438 MHz	Channel 56	2458 MHz	Channel 76	2478 MHz
Channel 17	2419 MHz	Channel 37	2439 MHz	Channel 57	2459 MHz	Channel 77	2479 MHz
Channel 18	2420 MHz	Channel 38	2440 MHz	Channel 58	2460 MHz	Channel 78	2480 MHz
Channel 19	2421 MHz	Channel 39	2441 MHz	Channel 59	2461 MHz	-	-

Note:

1. This device is Wireless-AC2200 Tri Band Gigabit Router support 2.4GHz b/g/n/ac and 5GHz a/n/ac and BT2.0/BT4.0 transmitting and receiving function.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1: Transmit_ADP_45BW B Mode 2: Transmit_ADP_45BW Y Mode 3: Transmit_AD2066320 Mode 4: Transmit_AD883J20

Test Items	Modulation	Channel	Result
Conducted Emission	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Output power	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Radiated Emission	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
RF antenna conducted test	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Band Edge	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Number of hopping Frequency	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Carrier Frequency Separation	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Occupied Bandwidth	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies
Dwell Time	GFSK/π/4-DQPSK/ 8-DPSK	00/39/78	Complies

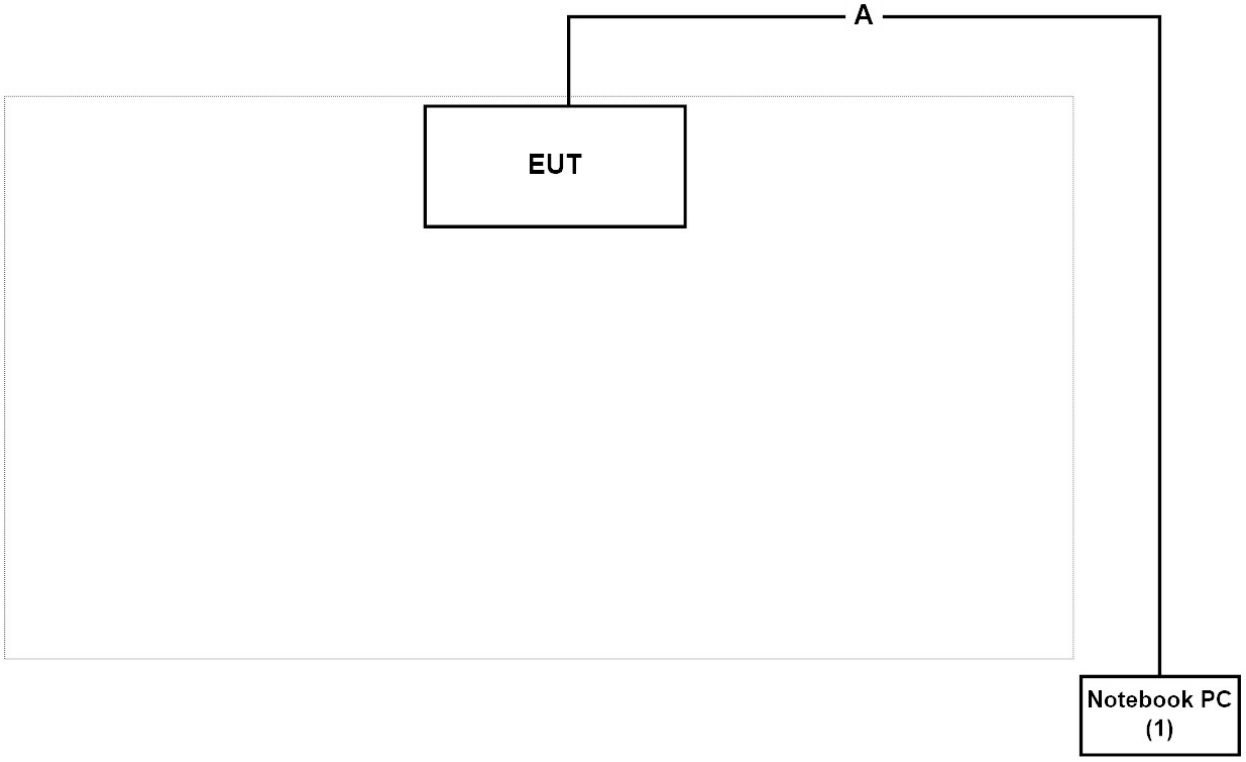
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	Lenovo	B590	WB1529782	DoC	Non-Shielded, 1.8m, one ferrite core bonded

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 4m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the command on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	23	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Output power	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	54	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Number of hopping Frequency	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Carrier Frequency Separation	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Dwell Time	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA	**:**	**FCC Registration Number: TW3024**
Canada		**IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

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1.7. List of Test Equipment

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/01/22	2019/01/21
Test Receiver	R&S	ESCS 30	836858/022	2018/03/30	2019/03/29
LISN	R&S	ENV216	100092	2018/07/23	2019/07/22

Output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2018/01/02	2019/01/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2018/01/02	2019/01/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2018/01/02	2019/01/01
Power Meter	Keysight	8990B	MY51000248	2018/06/07	2019/06/06
Power Sensor	Keysight	N1923A	MY57240005	2018/06/07	2019/06/06

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
Band Reject Filter	Micro-Tronics	BRM50702	G192	2018/04/11	2019/04/10
Band Reject Filter	Micro-Tronics	BRM50716	G089	2018/04/11	2019/04/10
Cable	Suhner	SF104_SF104_ SF104_SF104	A211	2017/08/29 2018/08/28	2018/08/28 2019/08/27
Cable	Suhner	SF104_SF104_ SF104_SF102	A219	2017/08/16 2018/08/15	2018/08/15 2019/08/14
Mangnetic Loop Antenna	Teseq	HLA6121	44287	2017/10/13 2018/09/28	2018/10/12 2019/09/27

RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
Cable	Suhner	SF104_SF104_ SF104_SF104	A211	2017/08/29 2018/08/28	2018/08/28 2019/08/27
Cable	Suhner	SF104_SF104_ SF104_SF102	A219	2017/08/16 2018/08/15	2018/08/15 2019/08/14

Number of hopping frequency / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Carrier Frequency Separation / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Dwell Time / SR10-H

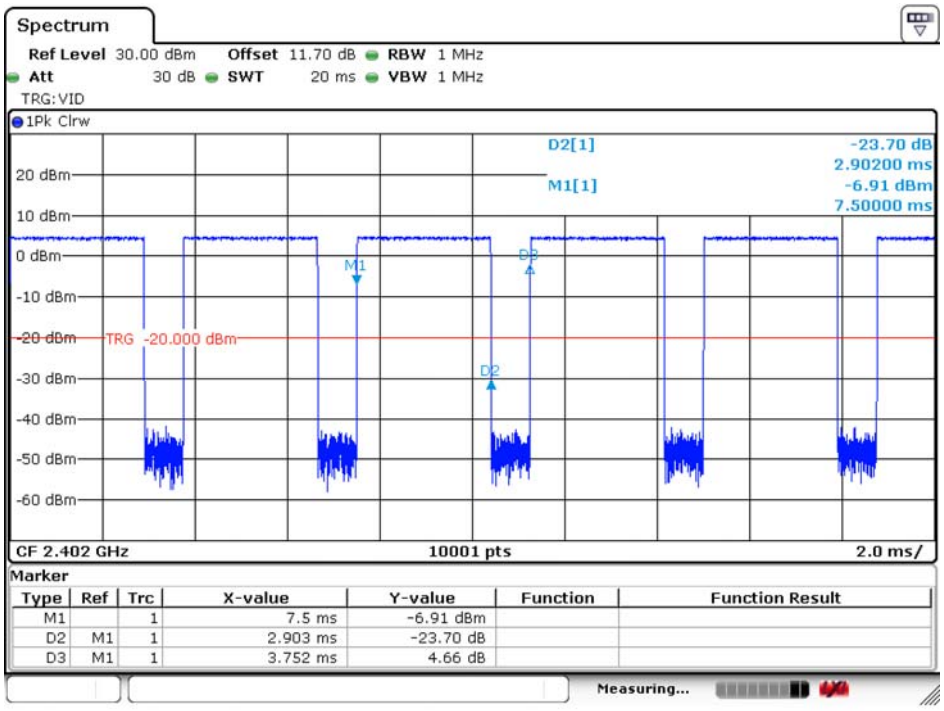
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.8. Duty Cycle

Mode	On Time(ms)	On+Off Time(ms)	Duty Cycle(%)	Duty Factor(dB)
DH5	2.903	3.752	77.37%	2.228
2DH5	2.913	3.760	77.47%	2.217
3DH5	2.907	3.756	77.40%	2.226

DH5



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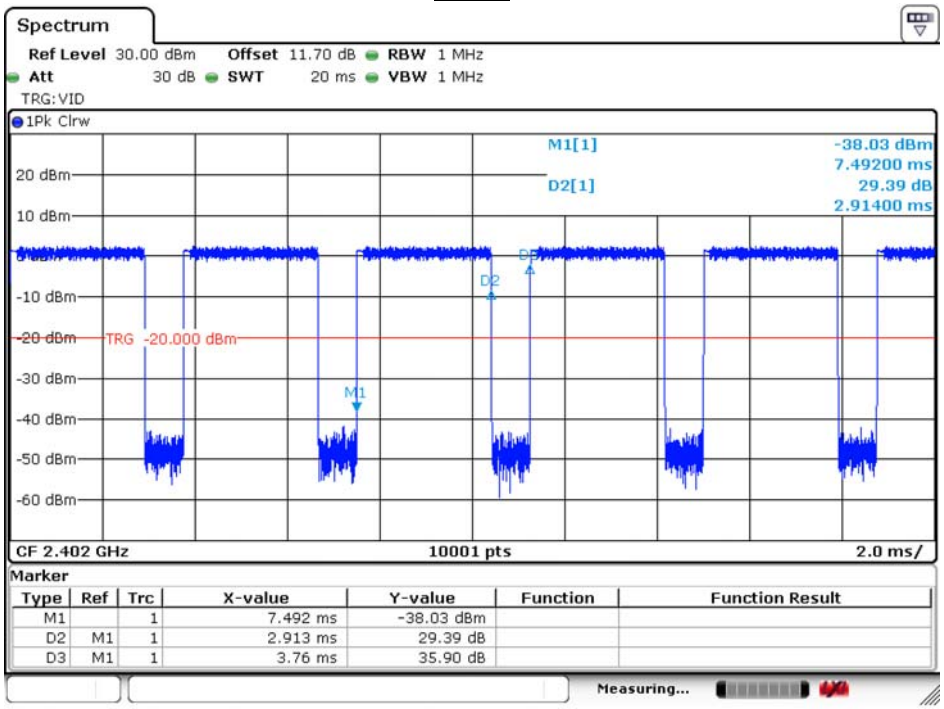
2DH5



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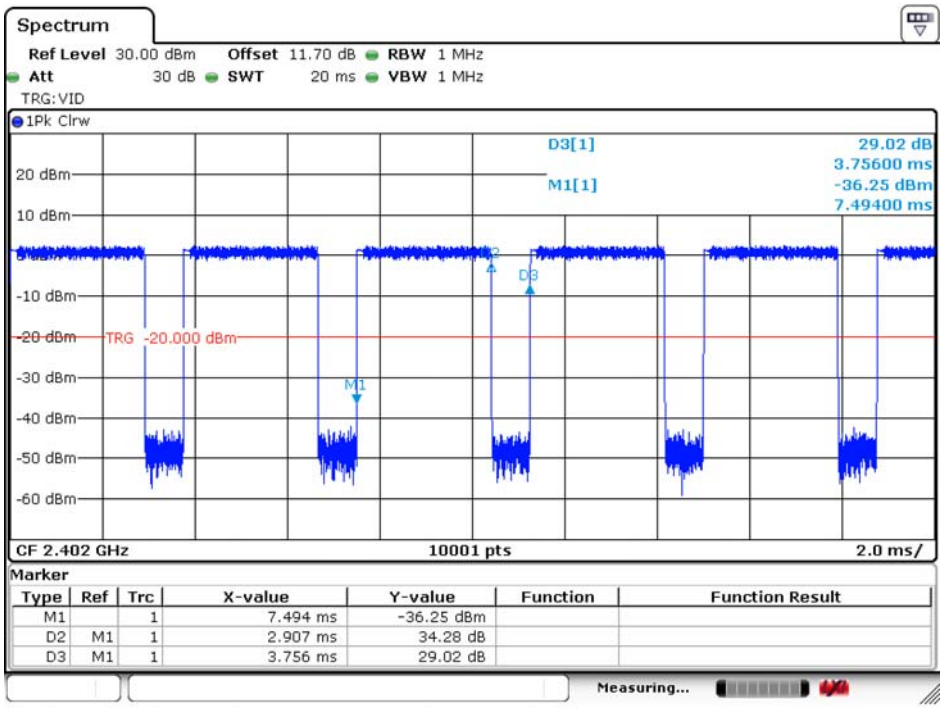
3DH5



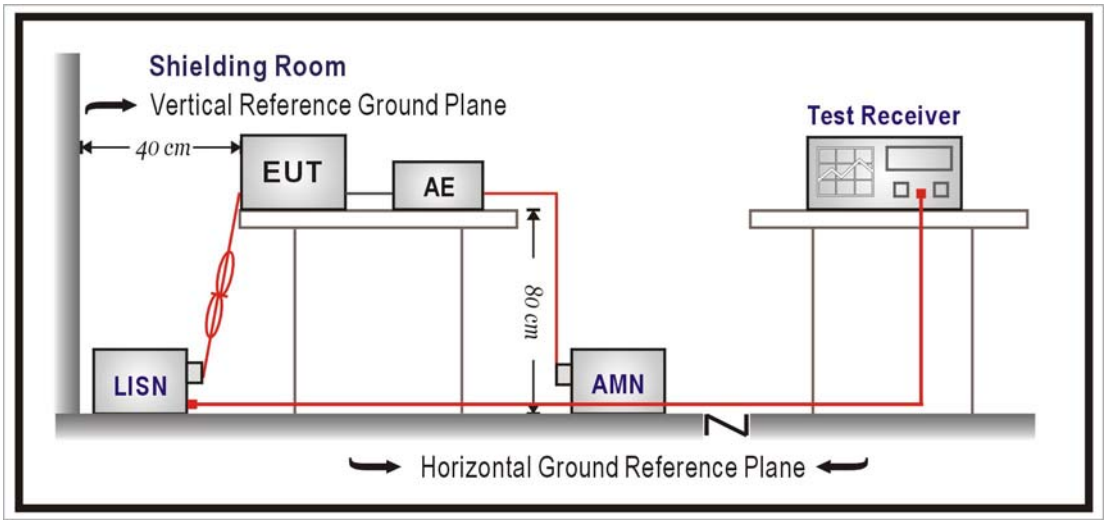
Date: 10.AUG.2018 15:34:40

1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
Output power	± 1.27 dB
Radiated Emission	30MHz～1GHz as ±3.43dB 1GHz～26.5Ghz as ±3.65dB
RF antenna conducted test	± 1.27dB
Band Edge	±3.65dB
Number of hopping frequency	--
Carrier Frequency Separation	--
Occupied Bandwidth	±50Hz
Dwell Time	--

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

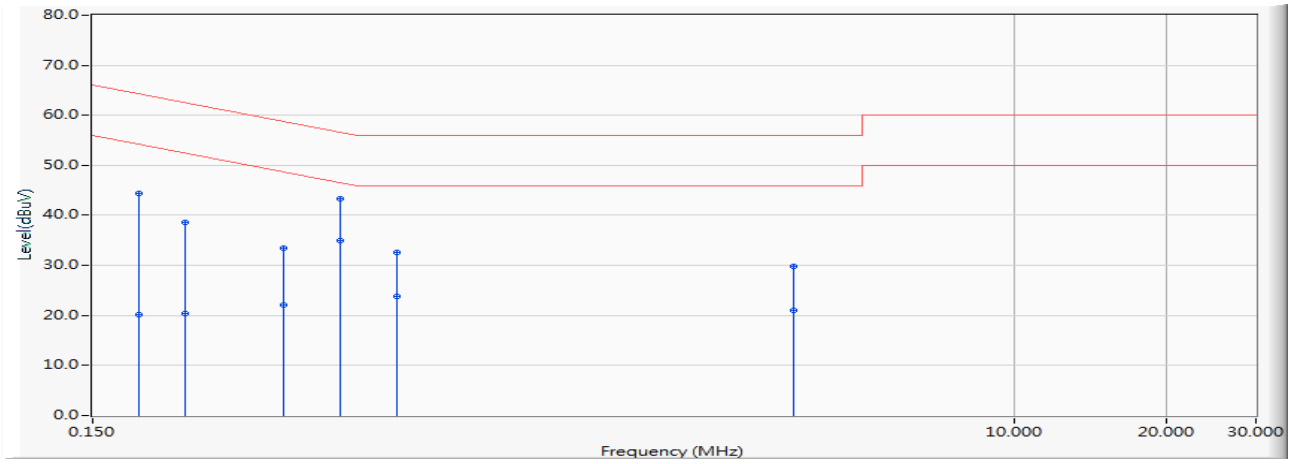
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2017

2.5. Test Result

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

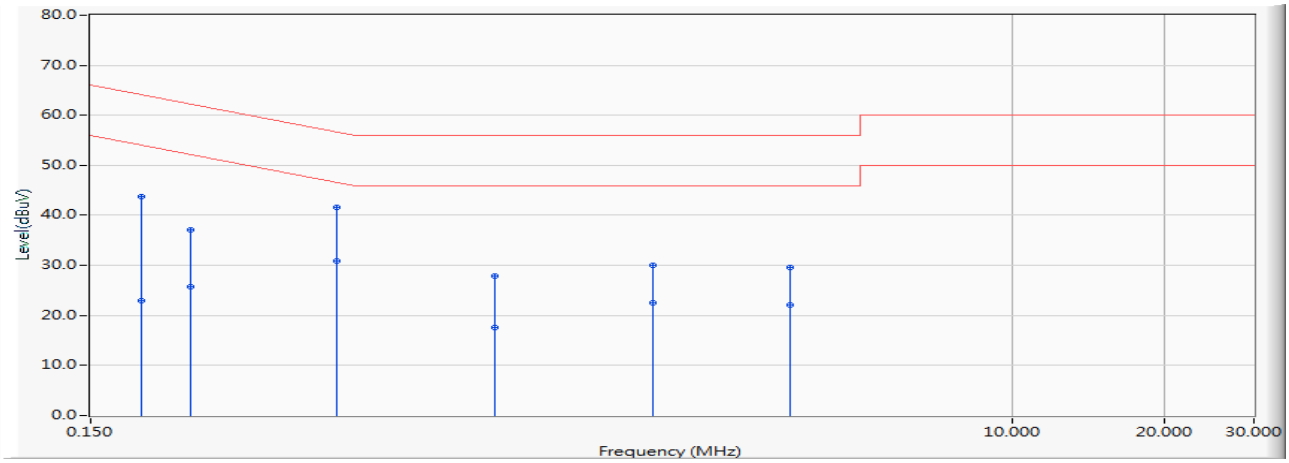


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.185	9.680	34.820	44.500	-19.751	64.251	QUASIPEAK
2		0.185	9.680	10.410	20.090	-34.161	54.251	AVERAGE
3		0.228	9.680	28.820	38.500	-24.018	62.518	QUASIPEAK
4		0.228	9.680	10.790	20.470	-32.048	52.518	AVERAGE
5		0.357	9.680	23.800	33.480	-25.317	58.797	QUASIPEAK
6		0.357	9.680	12.410	22.090	-26.707	48.797	AVERAGE
7		0.463	9.681	33.660	43.341	-13.306	56.648	QUASIPEAK
8	*	0.463	9.681	25.350	35.031	-11.616	46.648	AVERAGE
9		0.599	9.703	22.820	32.523	-23.477	56.000	QUASIPEAK
10		0.599	9.703	14.040	23.743	-22.257	46.000	AVERAGE
11		3.662	9.808	19.940	29.748	-26.252	56.000	QUASIPEAK
12		3.662	9.808	11.180	20.988	-25.012	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

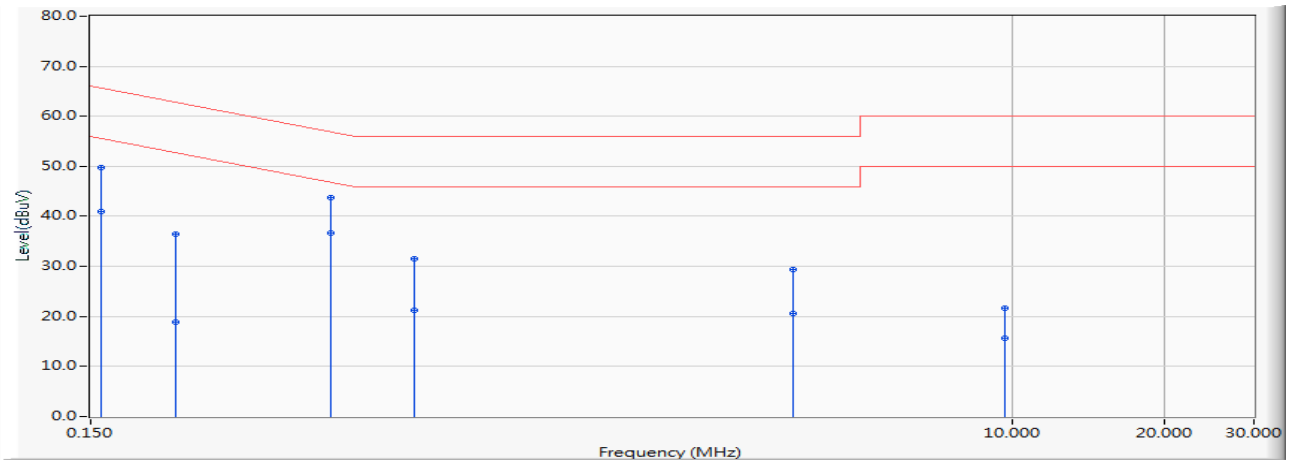


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	9.680	33.980	43.660	-20.418	64.078	QUASIPEAK
2		0.189	9.680	13.310	22.990	-31.088	54.078	AVERAGE
3		0.236	9.680	27.440	37.120	-25.118	62.238	QUASIPEAK
4		0.236	9.680	16.130	25.810	-26.428	52.238	AVERAGE
5	*	0.459	9.681	31.860	41.541	-15.177	56.718	QUASIPEAK
6		0.459	9.681	21.130	30.811	-15.907	46.718	AVERAGE
7		0.943	9.777	18.060	27.837	-28.163	56.000	QUASIPEAK
8		0.943	9.777	7.760	17.537	-28.463	46.000	AVERAGE
9		1.943	9.799	20.220	30.019	-25.981	56.000	QUASIPEAK
10		1.943	9.799	12.750	22.549	-23.451	46.000	AVERAGE
11		3.623	9.816	19.700	29.516	-26.484	56.000	QUASIPEAK
12		3.623	9.816	12.210	22.026	-23.974	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B B802.15.1_2DH5_2441MHz

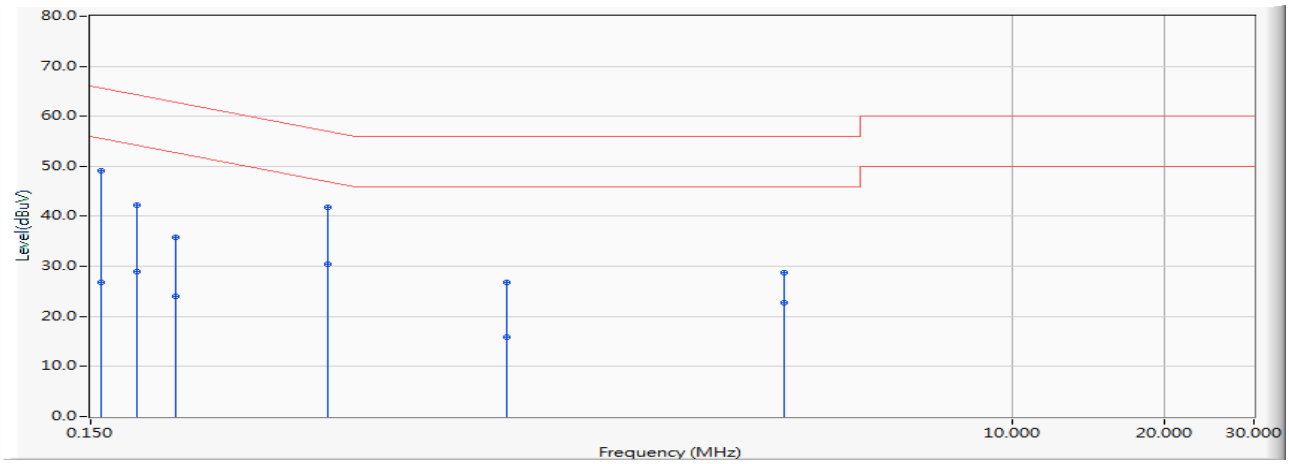


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	40.080	49.757	-15.821	65.578	QUASIPEAK
2		0.158	9.677	31.360	41.037	-14.541	55.578	AVERAGE
3		0.220	9.680	26.780	36.460	-26.347	62.807	QUASIPEAK
4		0.220	9.680	9.140	18.820	-33.987	52.807	AVERAGE
5		0.447	9.681	34.020	43.701	-13.232	56.933	QUASIPEAK
6	*	0.447	9.681	26.890	36.571	-10.362	46.933	AVERAGE
7		0.654	9.715	21.920	31.635	-24.365	56.000	QUASIPEAK
8		0.654	9.715	11.520	21.235	-24.765	46.000	AVERAGE
9		3.677	9.808	19.660	29.468	-26.532	56.000	QUASIPEAK
10		3.677	9.808	10.790	20.598	-25.402	46.000	AVERAGE
11		9.654	10.071	11.540	21.611	-38.389	60.000	QUASIPEAK
12		9.654	10.071	5.590	15.661	-34.339	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

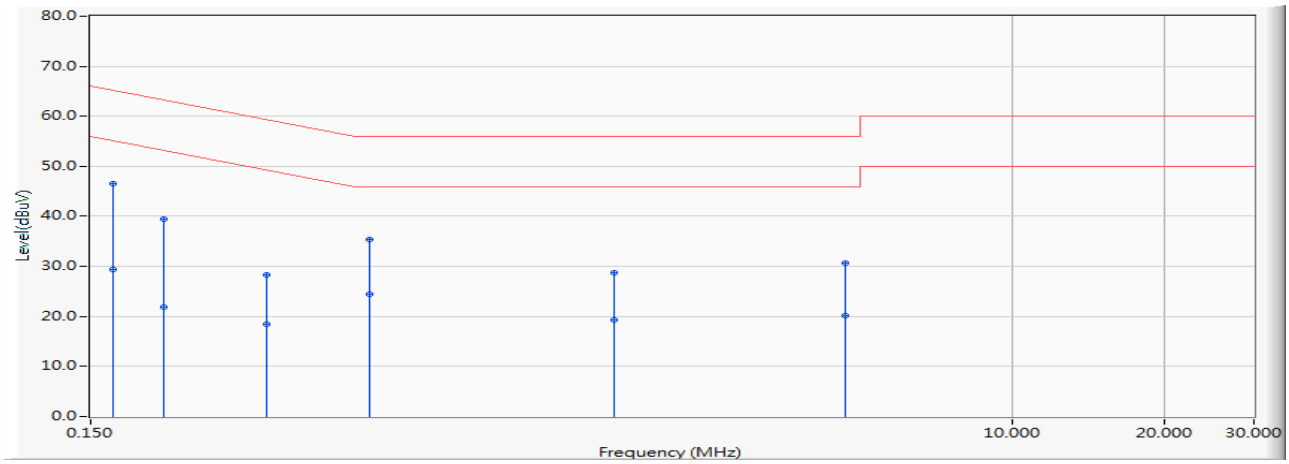


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	39.380	49.057	-16.521	65.578	QUASIPEAK
2		0.158	9.677	17.050	26.727	-28.851	55.578	AVERAGE
3		0.185	9.680	32.500	42.180	-22.071	64.251	QUASIPEAK
4		0.185	9.680	19.320	29.000	-25.251	54.251	AVERAGE
5		0.220	9.680	26.080	35.760	-27.047	62.807	QUASIPEAK
6		0.220	9.680	14.250	23.930	-28.877	52.807	AVERAGE
7	*	0.443	9.681	32.080	41.761	-15.245	57.006	QUASIPEAK
8		0.443	9.681	20.670	30.351	-16.655	47.006	AVERAGE
9		0.998	9.789	17.120	26.909	-29.091	56.000	QUASIPEAK
10		0.998	9.789	6.130	15.919	-30.081	46.000	AVERAGE
11		3.525	9.815	19.020	28.835	-27.165	56.000	QUASIPEAK
12		3.525	9.815	12.910	22.725	-23.275	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/09
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

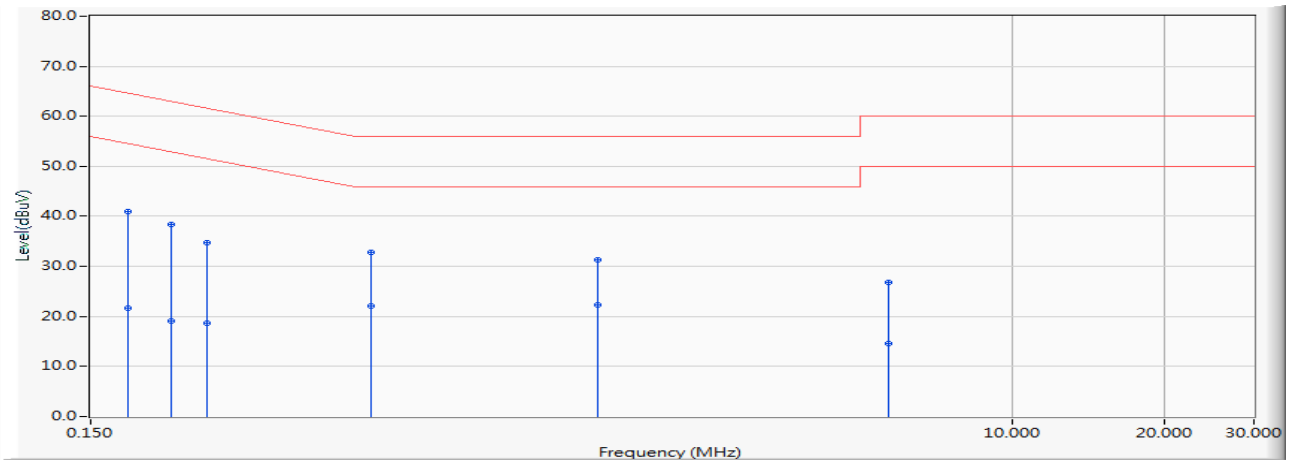


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.680	36.820	46.500	-18.677	65.177	QUASIPEAK
2		0.166	9.680	19.620	29.300	-25.877	55.177	AVERAGE
3		0.209	9.680	29.880	39.560	-23.701	63.261	QUASIPEAK
4		0.209	9.680	12.110	21.790	-31.471	53.261	AVERAGE
5		0.334	9.680	18.640	28.320	-31.041	59.361	QUASIPEAK
6		0.334	9.680	8.700	18.380	-30.981	49.361	AVERAGE
7		0.533	9.688	25.740	35.429	-20.571	56.000	QUASIPEAK
8		0.533	9.688	14.780	24.469	-21.531	46.000	AVERAGE
9		1.630	9.796	18.880	28.676	-27.324	56.000	QUASIPEAK
10		1.630	9.796	9.570	19.366	-26.634	46.000	AVERAGE
11		4.662	9.819	20.840	30.659	-25.341	56.000	QUASIPEAK
12		4.662	9.819	10.300	20.119	-25.881	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/09
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

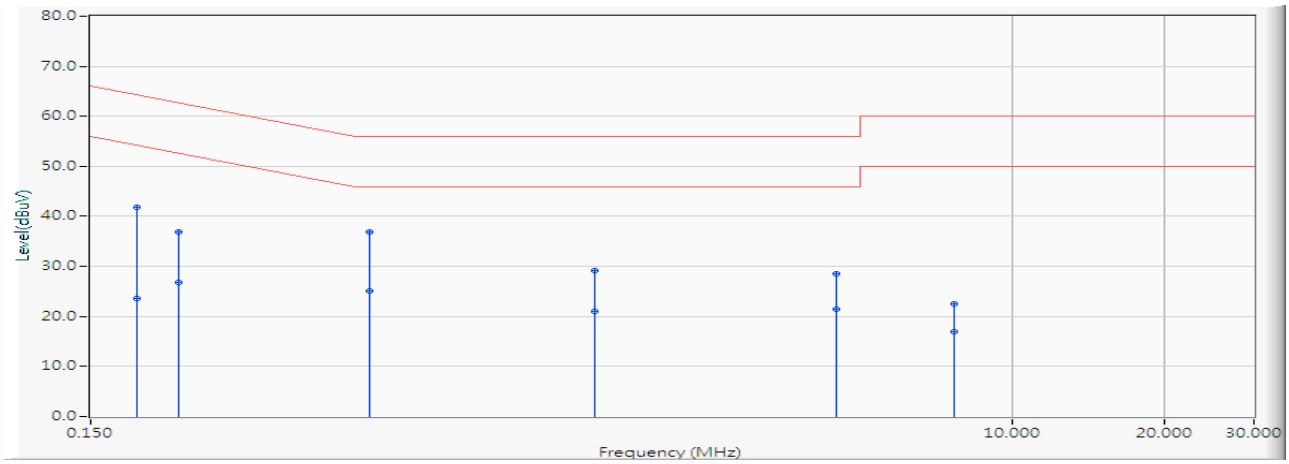


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.680	31.360	41.040	-23.569	64.609	QUASIPEAK
2		0.177	9.680	11.930	21.610	-32.999	54.609	AVERAGE
3		0.216	9.680	28.760	38.440	-24.516	62.956	QUASIPEAK
4		0.216	9.680	9.390	19.070	-33.886	52.956	AVERAGE
5		0.255	9.680	24.960	34.640	-26.937	61.577	QUASIPEAK
6		0.255	9.680	8.950	18.630	-32.947	51.577	AVERAGE
7	*	0.537	9.689	23.220	32.909	-23.091	56.000	QUASIPEAK
8		0.537	9.689	12.500	22.189	-23.811	46.000	AVERAGE
9		1.513	9.795	21.420	31.215	-24.785	56.000	QUASIPEAK
10		1.513	9.795	12.410	22.205	-23.795	46.000	AVERAGE
11		5.677	9.864	16.900	26.764	-33.236	60.000	QUASIPEAK
12		5.677	9.864	4.710	14.574	-35.426	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_DH5_2441MHz

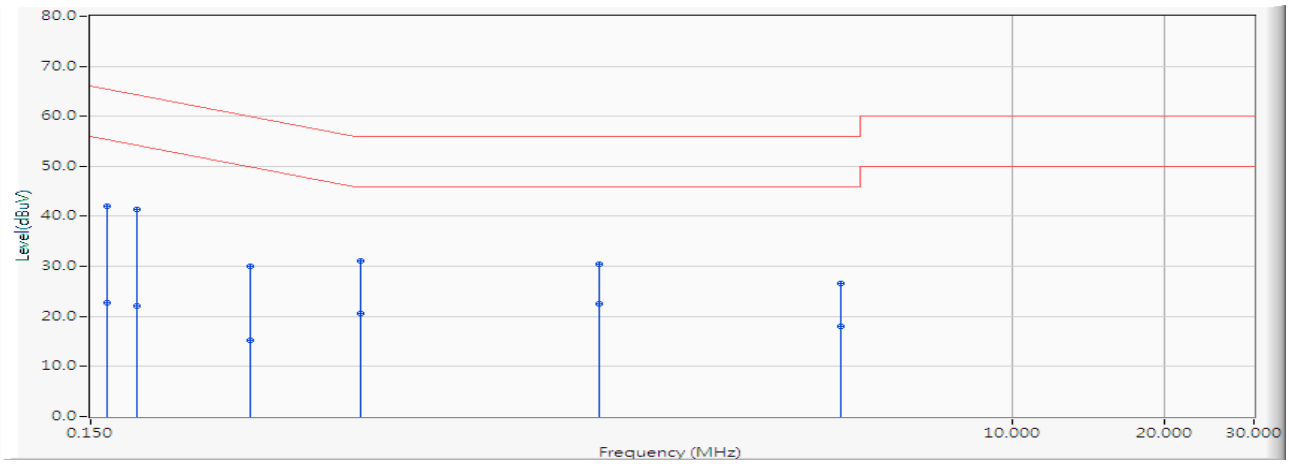


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.185	9.680	32.220	41.900	-22.351	64.251	QUASIPEAK
2		0.185	9.680	13.820	23.500	-30.751	54.251	AVERAGE
3		0.224	9.680	27.120	36.800	-25.861	62.661	QUASIPEAK
4		0.224	9.680	17.200	26.880	-25.781	52.661	AVERAGE
5	*	0.533	9.688	27.100	36.789	-19.211	56.000	QUASIPEAK
6		0.533	9.688	15.410	25.099	-20.901	46.000	AVERAGE
7		1.490	9.795	19.280	29.075	-26.925	56.000	QUASIPEAK
8		1.490	9.795	11.230	21.025	-24.975	46.000	AVERAGE
9		4.466	9.816	18.800	28.616	-27.384	56.000	QUASIPEAK
10		4.466	9.816	11.610	21.426	-24.574	46.000	AVERAGE
11		7.666	9.966	12.540	22.506	-37.494	60.000	QUASIPEAK
12		7.666	9.966	6.890	16.856	-33.144	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_DH5_2441MHz

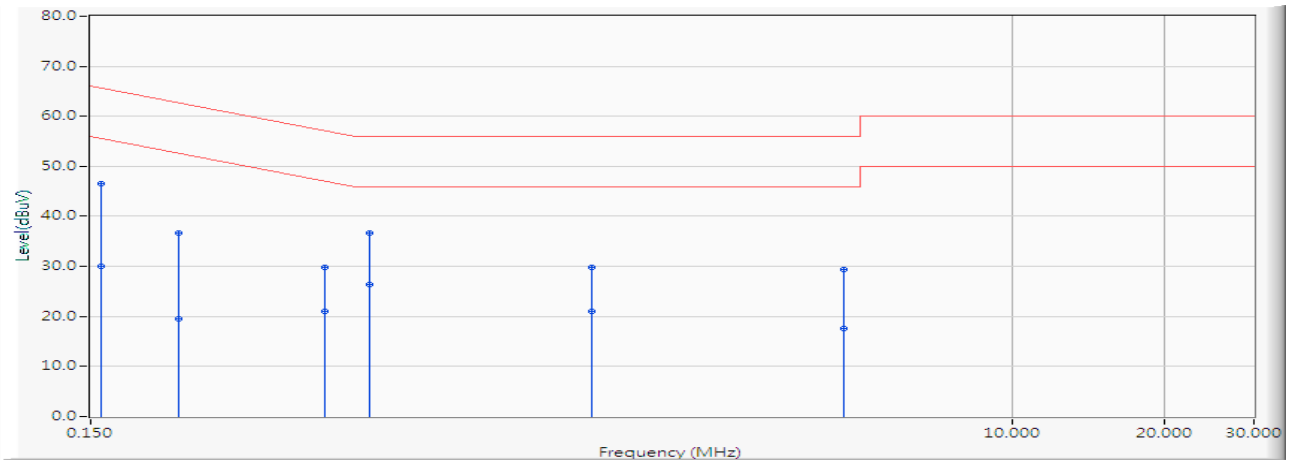


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	32.300	41.980	-23.395	65.375	QUASIPEAK
2		0.162	9.680	13.150	22.830	-32.545	55.375	AVERAGE
3	*	0.185	9.680	31.800	41.480	-22.771	64.251	QUASIPEAK
4		0.185	9.680	12.480	22.160	-32.091	54.251	AVERAGE
5		0.310	9.680	20.380	30.060	-29.906	59.966	QUASIPEAK
6		0.310	9.680	5.500	15.180	-34.786	49.966	AVERAGE
7		0.513	9.685	21.520	31.205	-24.795	56.000	QUASIPEAK
8		0.513	9.685	10.930	20.615	-25.385	46.000	AVERAGE
9		1.525	9.795	20.700	30.495	-25.505	56.000	QUASIPEAK
10		1.525	9.795	12.830	22.625	-23.375	46.000	AVERAGE
11		4.580	9.826	16.720	26.546	-29.454	56.000	QUASIPEAK
12		4.580	9.826	8.260	18.086	-27.914	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_2DH5_2441MHz

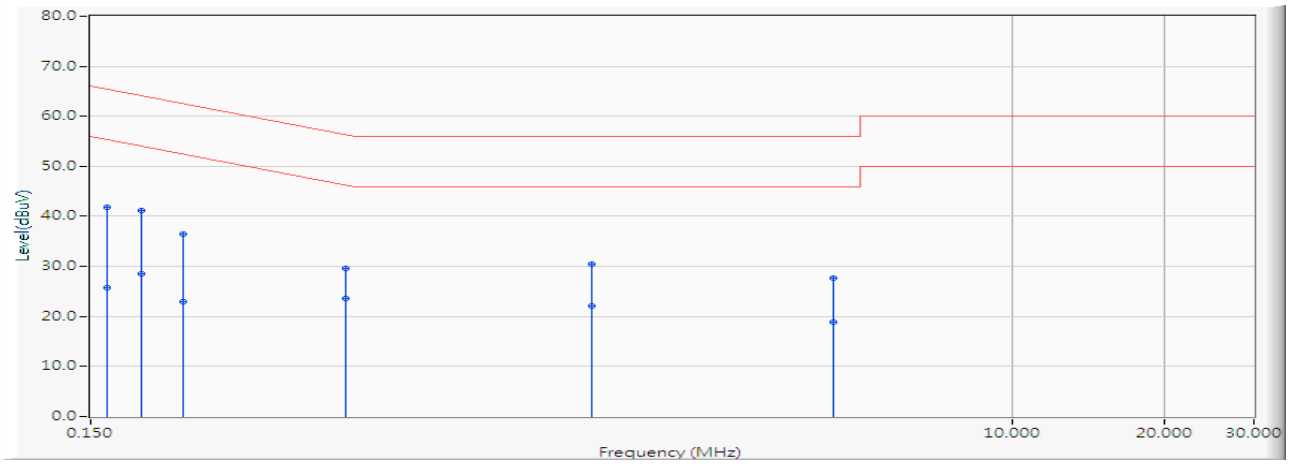


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.158	9.677	36.780	46.457	-19.121	65.578	QUASIPEAK
2		0.158	9.677	20.270	29.947	-25.631	55.578	AVERAGE
3		0.224	9.680	27.020	36.700	-25.961	62.661	QUASIPEAK
4		0.224	9.680	9.740	19.420	-33.241	52.661	AVERAGE
5		0.435	9.681	20.040	29.721	-27.433	57.154	QUASIPEAK
6		0.435	9.681	11.420	21.101	-26.053	47.154	AVERAGE
7		0.533	9.688	26.960	36.649	-19.351	56.000	QUASIPEAK
8		0.533	9.688	16.750	26.439	-19.561	46.000	AVERAGE
9		1.466	9.795	19.920	29.715	-26.285	56.000	QUASIPEAK
10		1.466	9.795	11.230	21.025	-24.975	46.000	AVERAGE
11		4.634	9.818	19.660	29.478	-26.522	56.000	QUASIPEAK
12		4.634	9.818	7.730	17.548	-28.452	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_2DH5_2441MHz

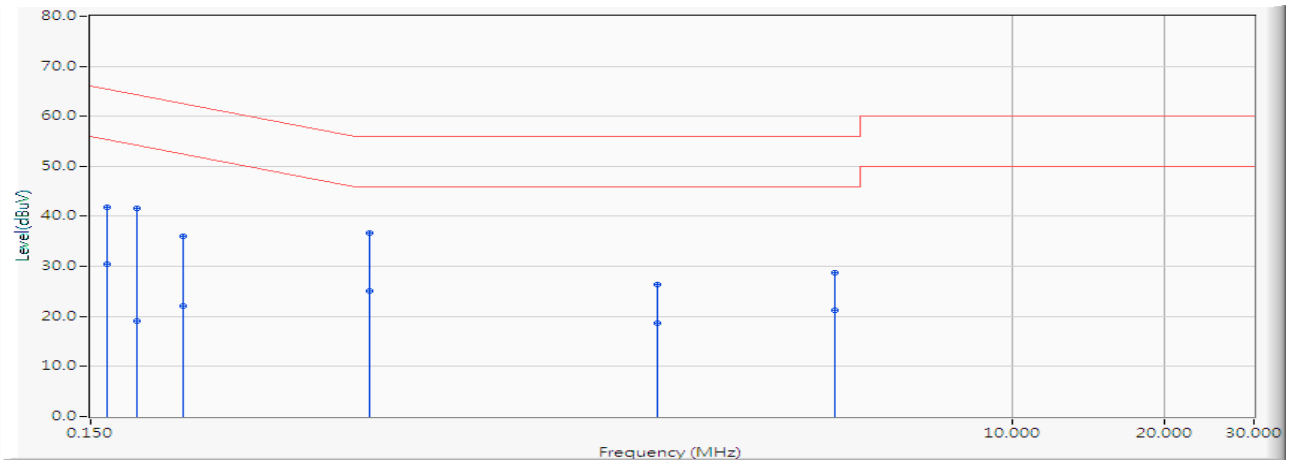


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	32.240	41.920	-23.455	65.375	QUASIPEAK
2		0.162	9.680	16.160	25.840	-29.535	55.375	AVERAGE
3		0.189	9.680	31.400	41.080	-22.998	64.078	QUASIPEAK
4		0.189	9.680	18.930	28.610	-25.468	54.078	AVERAGE
5		0.228	9.680	26.680	36.360	-26.158	62.518	QUASIPEAK
6		0.228	9.680	13.300	22.980	-29.538	52.518	AVERAGE
7		0.478	9.681	19.880	29.561	-26.810	56.372	QUASIPEAK
8	*	0.478	9.681	13.970	23.651	-22.720	46.372	AVERAGE
9		1.474	9.795	20.700	30.495	-25.505	56.000	QUASIPEAK
10		1.474	9.795	12.280	22.075	-23.925	46.000	AVERAGE
11		4.423	9.824	17.740	27.564	-28.436	56.000	QUASIPEAK
12		4.423	9.824	9.020	18.844	-27.156	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_3DH5_2441MHz

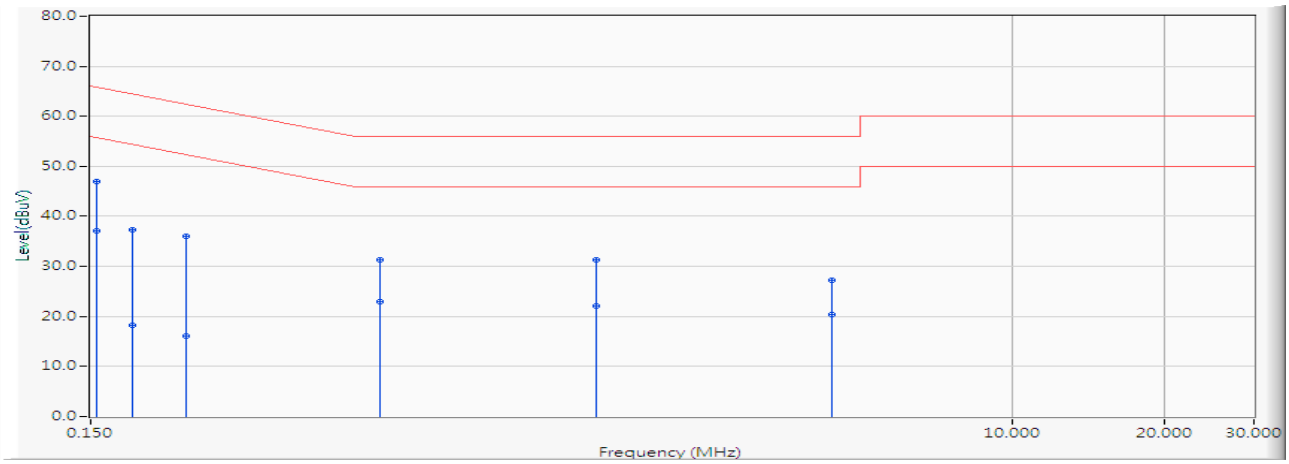


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	32.220	41.900	-23.475	65.375	QUASIPEAK
2		0.162	9.680	20.870	30.550	-24.825	55.375	AVERAGE
3		0.185	9.680	32.000	41.680	-22.571	64.251	QUASIPEAK
4		0.185	9.680	9.510	19.190	-35.061	54.251	AVERAGE
5		0.228	9.680	26.400	36.080	-26.438	62.518	QUASIPEAK
6		0.228	9.680	12.500	22.180	-30.338	52.518	AVERAGE
7	*	0.533	9.688	26.920	36.609	-19.391	56.000	QUASIPEAK
8		0.533	9.688	15.410	25.099	-20.901	46.000	AVERAGE
9		1.978	9.800	16.680	26.480	-29.520	56.000	QUASIPEAK
10		1.978	9.800	8.830	18.630	-27.370	46.000	AVERAGE
11		4.451	9.816	19.020	28.836	-27.164	56.000	QUASIPEAK
12		4.451	9.816	11.420	21.236	-24.764	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_3DH5_2441MHz

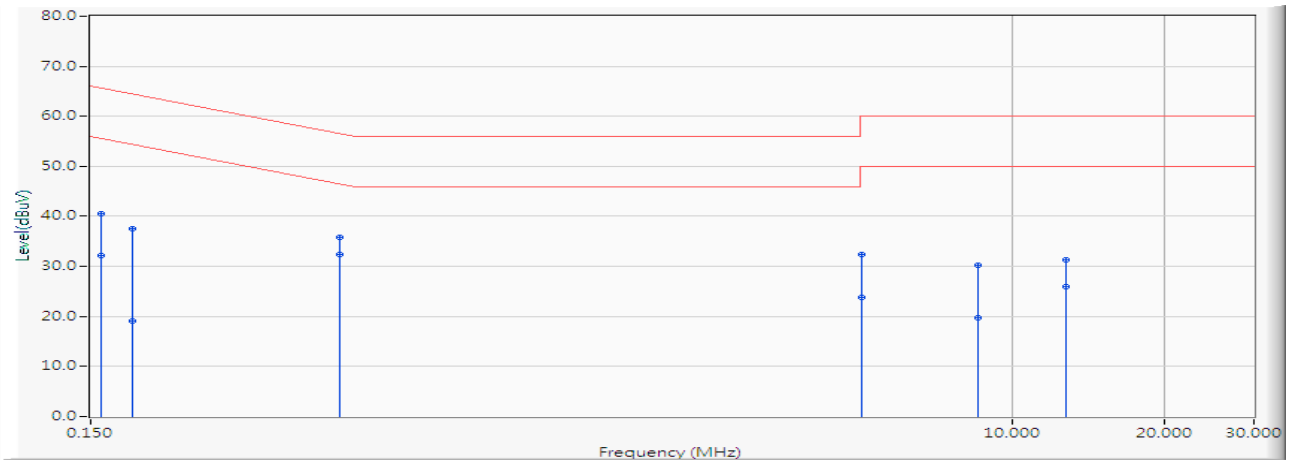


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	9.673	37.320	46.992	-18.794	65.786	QUASIPEAK
2	*	0.154	9.673	27.350	37.022	-18.764	55.786	AVERAGE
3		0.181	9.680	27.580	37.260	-27.168	64.428	QUASIPEAK
4		0.181	9.680	8.630	18.310	-36.118	54.428	AVERAGE
5		0.232	9.680	26.280	35.960	-26.417	62.377	QUASIPEAK
6		0.232	9.680	6.390	16.070	-36.307	52.377	AVERAGE
7		0.560	9.695	21.700	31.395	-24.605	56.000	QUASIPEAK
8		0.560	9.695	13.310	23.005	-22.995	46.000	AVERAGE
9		1.502	9.795	21.520	31.315	-24.685	56.000	QUASIPEAK
10		1.502	9.795	12.240	22.035	-23.965	46.000	AVERAGE
11		4.396	9.824	17.420	27.244	-28.756	56.000	QUASIPEAK
12		4.396	9.824	10.520	20.344	-25.656	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_DH5_2441MHz

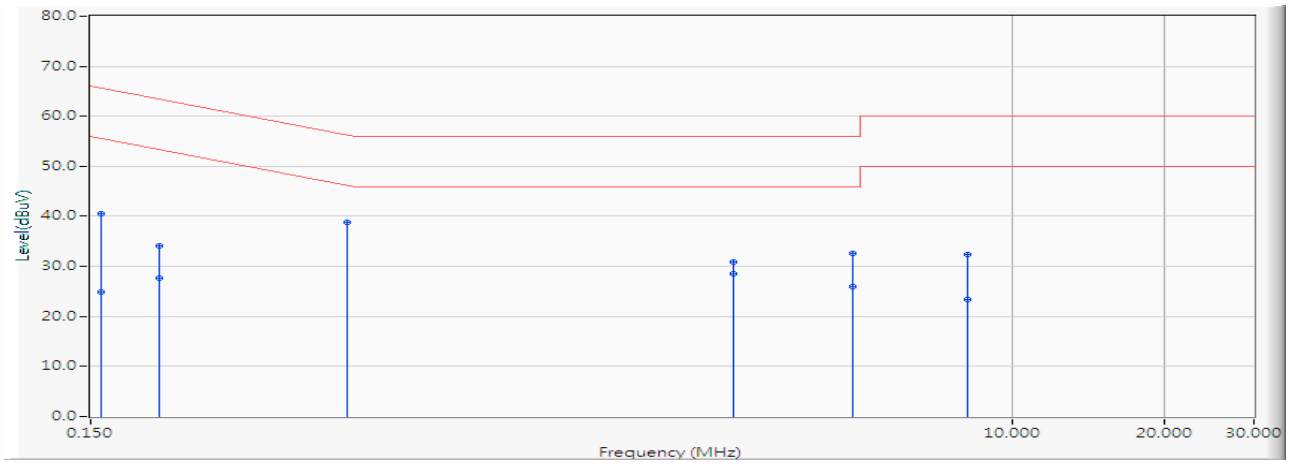


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	30.820	40.497	-25.081	65.578	QUASIPEAK
2		0.158	9.677	22.560	32.237	-23.341	55.578	AVERAGE
3		0.181	9.680	27.760	37.440	-26.988	64.428	QUASIPEAK
4		0.181	9.680	9.330	19.010	-35.418	54.428	AVERAGE
5		0.466	9.681	26.080	35.761	-20.817	56.578	QUASIPEAK
6	*	0.466	9.681	22.660	32.341	-14.237	46.578	AVERAGE
7		5.025	9.825	22.480	32.305	-27.695	60.000	QUASIPEAK
8		5.025	9.825	14.010	23.835	-26.165	50.000	AVERAGE
9		8.541	10.013	20.160	30.172	-29.828	60.000	QUASIPEAK
10		8.541	10.013	9.760	19.772	-30.228	50.000	AVERAGE
11		12.736	10.178	21.060	31.238	-28.762	60.000	QUASIPEAK
12		12.736	10.178	15.680	25.858	-24.142	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_DH5_2441MHz

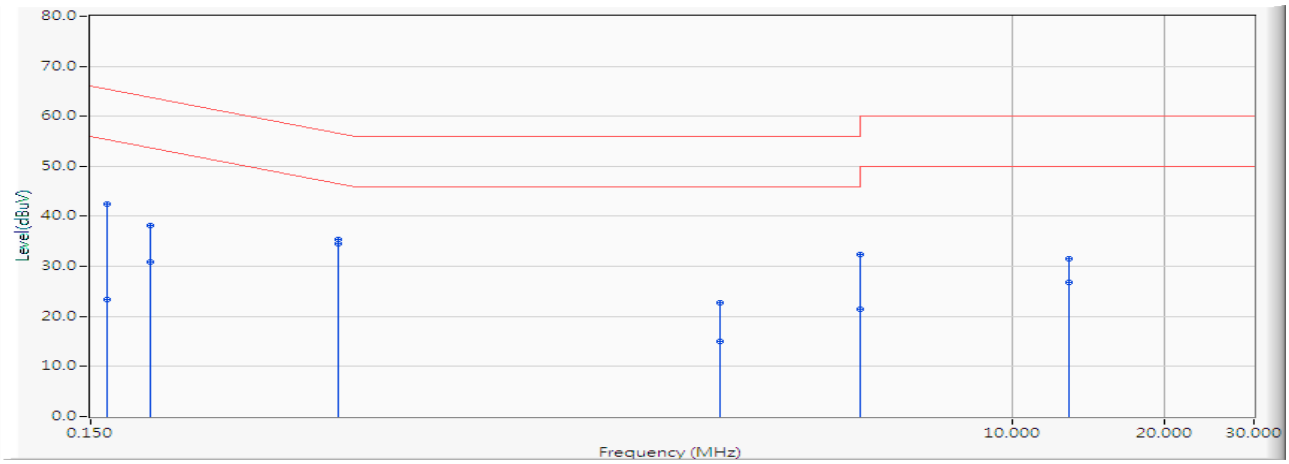


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	30.960	40.637	-24.941	65.578	QUASIPEAK
2		0.158	9.677	15.160	24.837	-30.741	55.578	AVERAGE
3		0.205	9.680	24.360	34.040	-29.378	63.418	QUASIPEAK
4		0.205	9.680	18.040	27.720	-25.698	53.418	AVERAGE
5		0.482	9.681	29.160	38.841	-17.463	56.304	QUASIPEAK
6	*	0.482	9.681	29.090	38.771	-7.533	46.304	AVERAGE
7		2.802	9.808	21.020	30.828	-25.172	56.000	QUASIPEAK
8		2.802	9.808	18.680	28.488	-17.512	46.000	AVERAGE
9		4.818	9.828	22.820	32.648	-23.352	56.000	QUASIPEAK
10		4.818	9.828	16.220	26.048	-19.952	46.000	AVERAGE
11		8.162	9.988	22.420	32.408	-27.592	60.000	QUASIPEAK
12		8.162	9.988	13.310	23.298	-26.702	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_2DH5_2441MHz

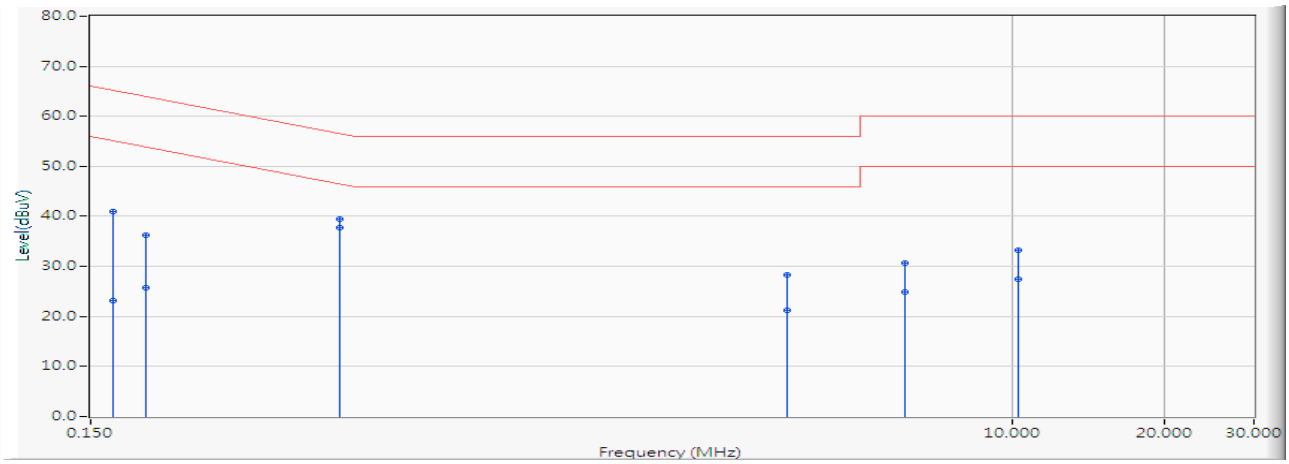


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	32.880	42.560	-22.815	65.375	QUASIPEAK
2		0.162	9.680	13.750	23.430	-31.945	55.375	AVERAGE
3		0.197	9.680	28.500	38.180	-25.561	63.741	QUASIPEAK
4		0.197	9.680	21.240	30.920	-22.821	53.741	AVERAGE
5		0.463	9.681	25.740	35.421	-21.226	56.648	QUASIPEAK
6	*	0.463	9.681	24.790	34.471	-12.176	46.648	AVERAGE
7		2.634	9.803	12.920	22.723	-33.277	56.000	QUASIPEAK
8		2.634	9.803	5.160	14.963	-31.037	46.000	AVERAGE
9		5.005	9.823	22.620	32.444	-27.556	60.000	QUASIPEAK
10		5.005	9.823	11.610	21.434	-28.566	50.000	AVERAGE
11		12.963	10.185	21.360	31.545	-28.455	60.000	QUASIPEAK
12		12.963	10.185	16.640	26.825	-23.175	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_2DH5_2441MHz

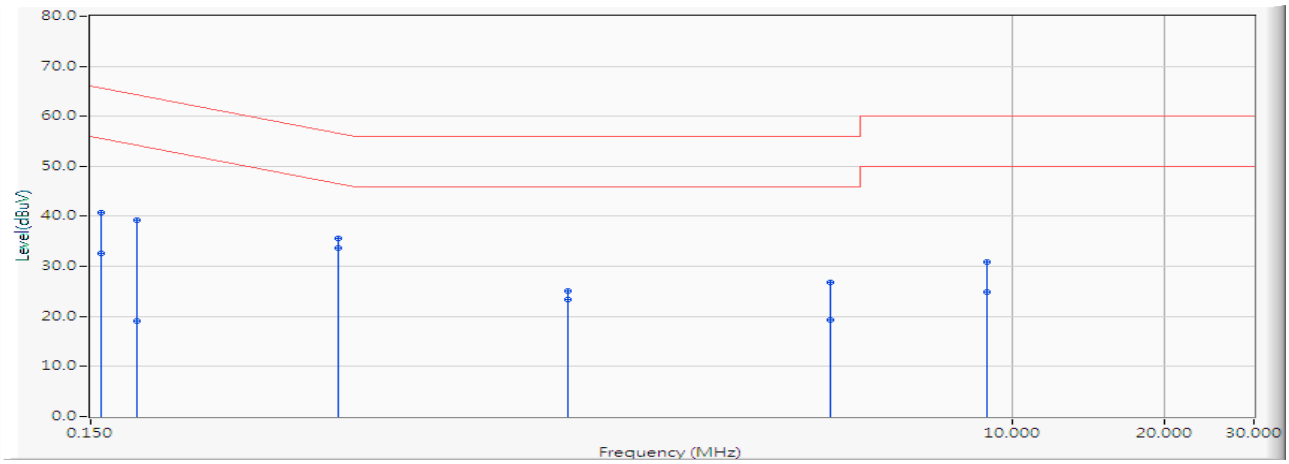


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.680	31.180	40.860	-24.317	65.177	QUASIPEAK
2		0.166	9.680	13.530	23.210	-31.967	55.177	AVERAGE
3		0.193	9.680	26.580	36.260	-27.648	63.908	QUASIPEAK
4		0.193	9.680	16.160	25.840	-28.068	53.908	AVERAGE
5		0.466	9.681	29.800	39.481	-17.097	56.578	QUASIPEAK
6	*	0.466	9.681	27.970	37.651	-8.927	46.578	AVERAGE
7		3.580	9.816	18.500	28.316	-27.684	56.000	QUASIPEAK
8		3.580	9.816	11.490	21.306	-24.694	46.000	AVERAGE
9		6.111	9.885	20.780	30.666	-29.334	60.000	QUASIPEAK
10		6.111	9.885	15.010	24.896	-25.104	50.000	AVERAGE
11		10.267	10.087	23.160	33.247	-26.753	60.000	QUASIPEAK
12		10.267	10.087	17.280	27.367	-22.633	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_3DH5_2441MHz

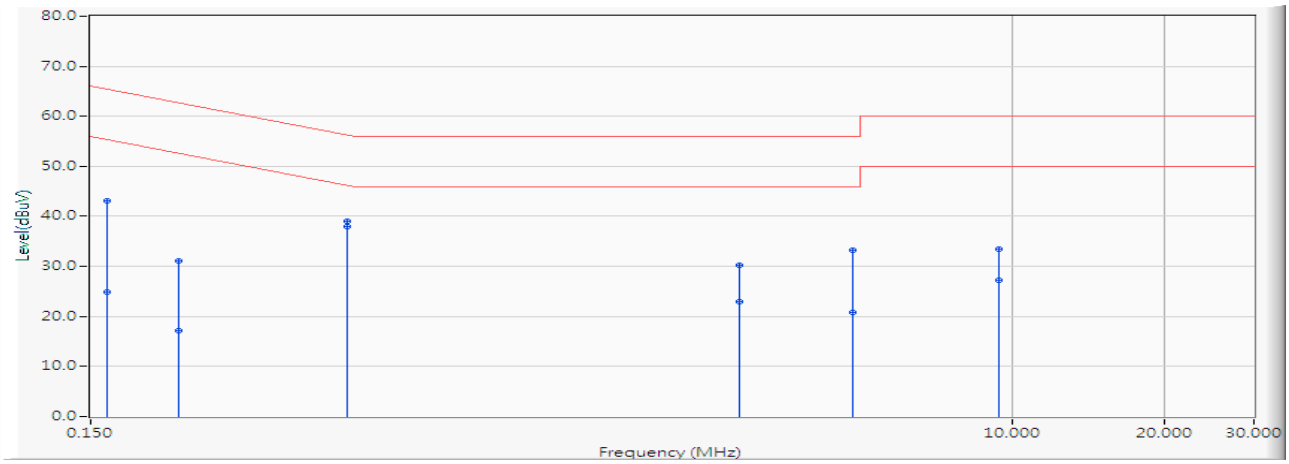


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	31.180	40.857	-24.721	65.578	QUASIPEAK
2		0.158	9.677	22.870	32.547	-23.031	55.578	AVERAGE
3		0.185	9.680	29.600	39.280	-24.971	64.251	QUASIPEAK
4		0.185	9.680	9.510	19.190	-35.061	54.251	AVERAGE
5		0.463	9.681	25.980	35.661	-20.986	56.648	QUASIPEAK
6	*	0.463	9.681	24.020	33.701	-12.946	46.648	AVERAGE
7		1.318	9.793	15.400	25.193	-30.807	56.000	QUASIPEAK
8		1.318	9.793	13.600	23.393	-22.607	46.000	AVERAGE
9		4.353	9.815	16.920	26.735	-29.265	56.000	QUASIPEAK
10		4.353	9.815	9.390	19.205	-26.795	46.000	AVERAGE
11		8.896	10.031	20.820	30.851	-29.149	60.000	QUASIPEAK
12		8.896	10.031	14.850	24.881	-25.119	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_3DH5_2441MHz

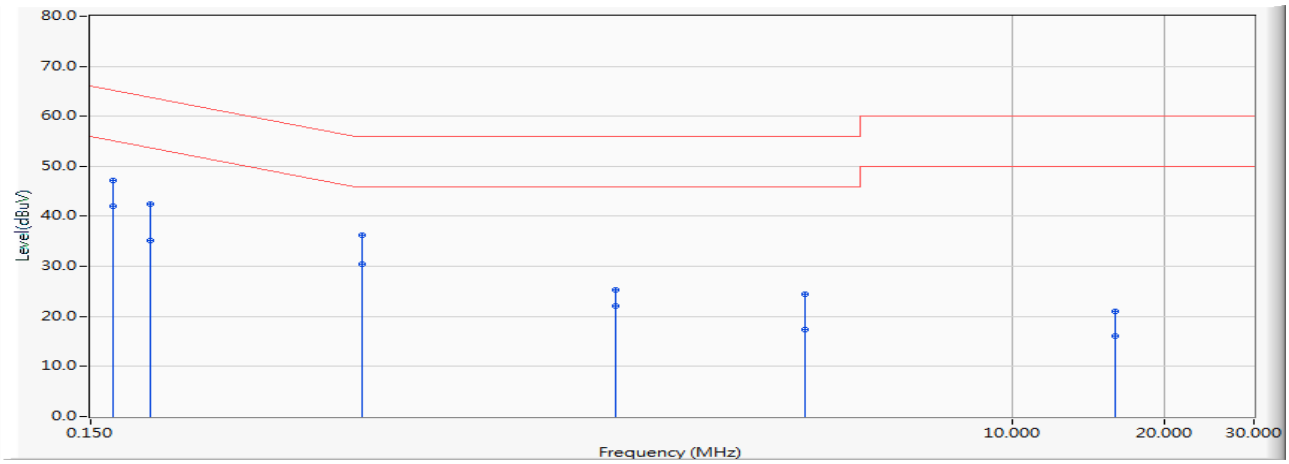


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	33.480	43.160	-22.215	65.375	QUASIPEAK
2		0.162	9.680	15.210	24.890	-30.485	55.375	AVERAGE
3		0.224	9.680	21.460	31.140	-31.521	62.661	QUASIPEAK
4		0.224	9.680	7.430	17.110	-35.551	52.661	AVERAGE
5		0.482	9.681	29.300	38.981	-17.323	56.304	QUASIPEAK
6	*	0.482	9.681	28.200	37.881	-8.423	46.304	AVERAGE
7		2.873	9.809	20.520	30.329	-25.671	56.000	QUASIPEAK
8		2.873	9.809	13.220	23.029	-22.971	46.000	AVERAGE
9		4.818	9.828	23.320	33.148	-22.852	56.000	QUASIPEAK
10		4.818	9.828	11.030	20.858	-25.142	46.000	AVERAGE
11		9.408	10.050	23.400	33.450	-26.550	60.000	QUASIPEAK
12		9.408	10.050	17.200	27.250	-22.750	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_AD883J20 802.15.1_DH5_2441MHz

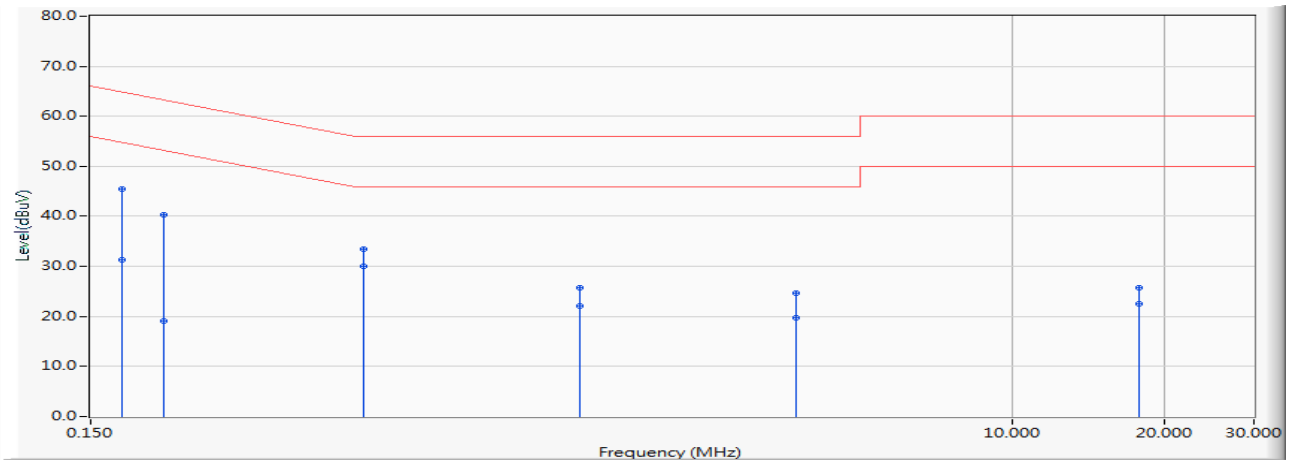


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.680	37.470	47.150	-18.027	65.177	QUASIPEAK
2	*	0.166	9.680	32.400	42.080	-13.097	55.177	AVERAGE
3		0.197	9.680	32.700	42.380	-21.361	63.741	QUASIPEAK
4		0.197	9.680	25.590	35.270	-18.471	53.741	AVERAGE
5		0.517	9.685	26.530	36.215	-19.785	56.000	QUASIPEAK
6		0.517	9.685	20.760	30.445	-15.555	46.000	AVERAGE
7		1.638	9.796	15.540	25.336	-30.664	56.000	QUASIPEAK
8		1.638	9.796	12.250	22.046	-23.954	46.000	AVERAGE
9		3.892	9.809	14.620	24.429	-31.571	56.000	QUASIPEAK
10		3.892	9.809	7.640	17.449	-28.551	46.000	AVERAGE
11		15.966	10.362	10.740	21.102	-38.898	60.000	QUASIPEAK
12		15.966	10.362	5.630	15.992	-34.008	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_AD883J20 802.15.1_DH5_2441MHz

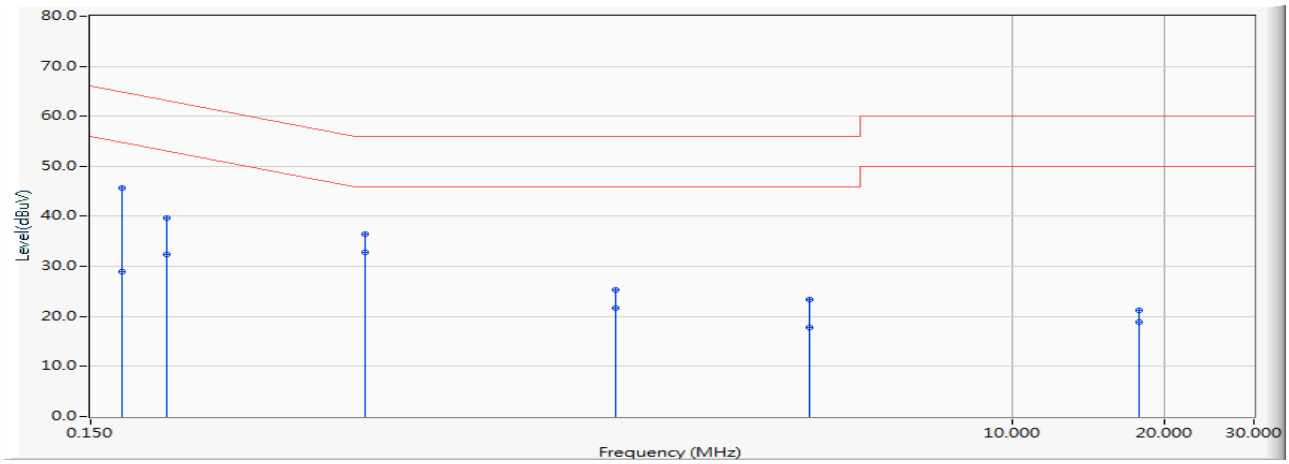


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	9.680	35.890	45.570	-19.224	64.794	QUASIPEAK
2		0.173	9.680	21.630	31.310	-23.484	54.794	AVERAGE
3		0.209	9.680	30.710	40.390	-22.871	63.261	QUASIPEAK
4		0.209	9.680	9.320	19.000	-34.261	53.261	AVERAGE
5		0.521	9.686	23.810	33.496	-22.504	56.000	QUASIPEAK
6	*	0.521	9.686	20.440	30.126	-15.874	46.000	AVERAGE
7		1.388	9.794	15.920	25.714	-30.286	56.000	QUASIPEAK
8		1.388	9.794	12.390	22.184	-23.816	46.000	AVERAGE
9		3.732	9.817	14.790	24.607	-31.393	56.000	QUASIPEAK
10		3.732	9.817	9.820	19.637	-26.363	46.000	AVERAGE
11		17.841	10.343	15.420	25.763	-34.237	60.000	QUASIPEAK
12		17.841	10.343	12.180	22.523	-27.477	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_AD883J20 802.15.1_2DH5_2441MHz

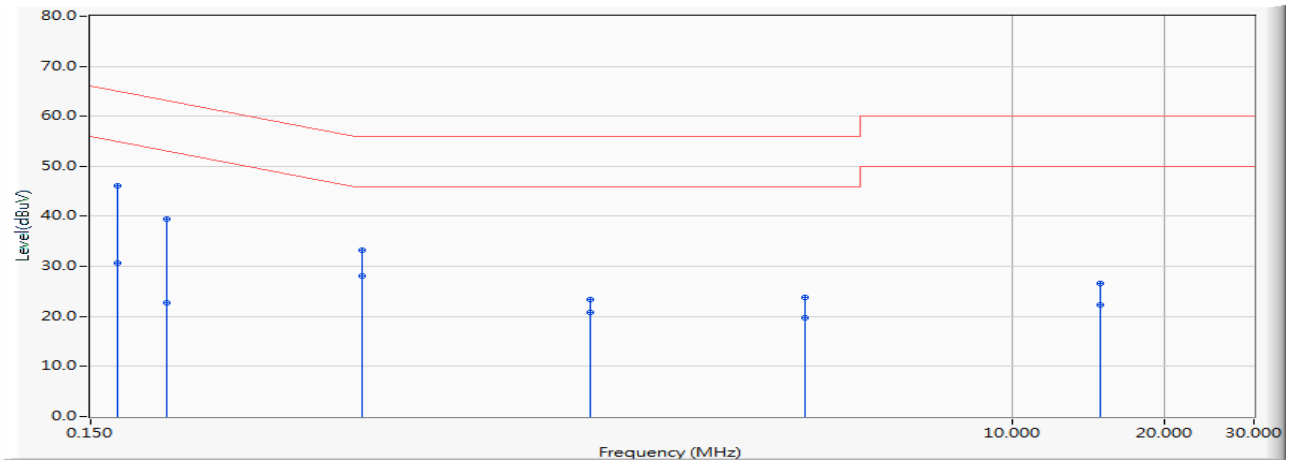


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	9.680	35.990	45.670	-19.124	64.794	QUASIPEAK
2		0.173	9.680	19.280	28.960	-25.834	54.794	AVERAGE
3		0.212	9.680	29.900	39.580	-23.527	63.107	QUASIPEAK
4		0.212	9.680	22.660	32.340	-20.767	53.107	AVERAGE
5		0.525	9.687	26.860	36.547	-19.453	56.000	QUASIPEAK
6	*	0.525	9.687	23.210	32.897	-13.103	46.000	AVERAGE
7		1.634	9.796	15.560	25.356	-30.644	56.000	QUASIPEAK
8		1.634	9.796	11.970	21.766	-24.234	46.000	AVERAGE
9		3.966	9.810	13.610	23.420	-32.580	56.000	QUASIPEAK
10		3.966	9.810	8.030	17.840	-28.160	46.000	AVERAGE
11		17.759	10.383	10.920	21.303	-38.697	60.000	QUASIPEAK
12		17.759	10.383	8.480	18.863	-31.137	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_AD883J20 802.15.1_2DH5_2441MHz

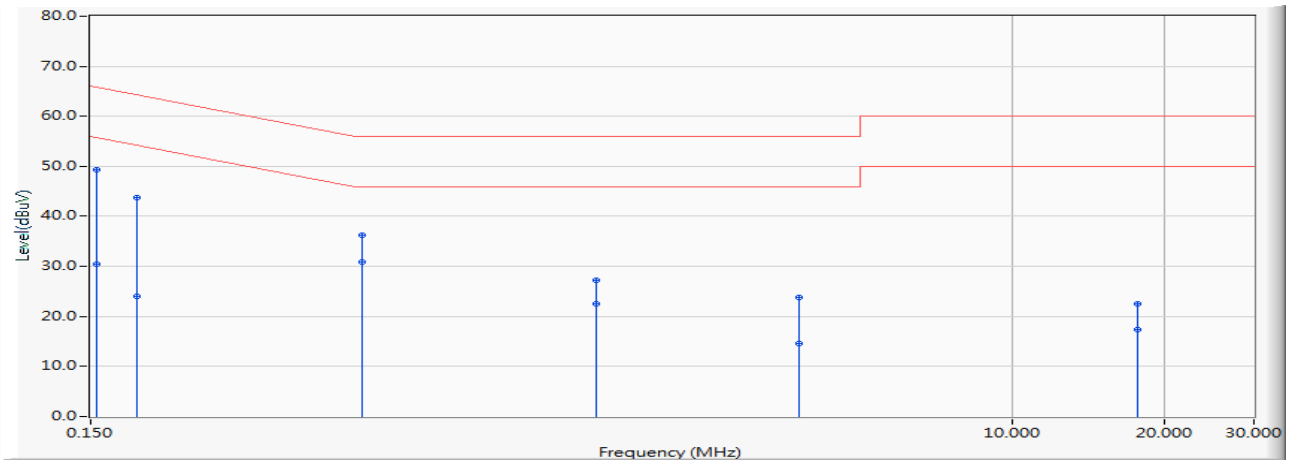


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.680	36.410	46.090	-18.893	64.983	QUASIPEAK
2		0.170	9.680	20.960	30.640	-24.343	54.983	AVERAGE
3		0.212	9.680	29.800	39.480	-23.627	63.107	QUASIPEAK
4		0.212	9.680	13.000	22.680	-30.427	53.107	AVERAGE
5		0.517	9.685	23.610	33.295	-22.705	56.000	QUASIPEAK
6	*	0.517	9.685	18.390	28.075	-17.925	46.000	AVERAGE
7		1.459	9.795	13.690	23.485	-32.515	56.000	QUASIPEAK
8		1.459	9.795	11.100	20.895	-25.105	46.000	AVERAGE
9		3.877	9.819	14.060	23.879	-32.121	56.000	QUASIPEAK
10		3.877	9.819	9.810	19.629	-26.371	46.000	AVERAGE
11		14.896	10.315	16.260	26.575	-33.425	60.000	QUASIPEAK
12		14.896	10.315	12.010	22.325	-27.675	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_AD883J20 802.15.1_3DH5_2441MHz

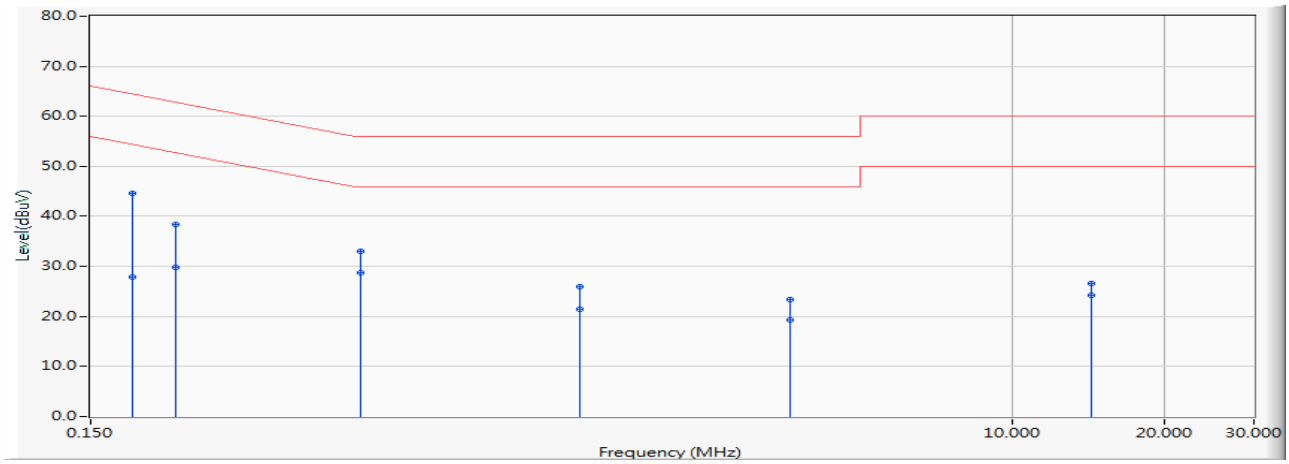


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	9.680	39.710	49.390	-16.396	65.786	QUASIPEAK
2		0.154	9.680	20.850	30.530	-25.256	55.786	AVERAGE
3		0.185	9.680	34.020	43.700	-20.551	64.251	QUASIPEAK
4		0.185	9.680	14.410	24.090	-30.161	54.251	AVERAGE
5		0.517	9.685	26.540	36.225	-19.775	56.000	QUASIPEAK
6	*	0.517	9.685	21.120	30.805	-15.195	46.000	AVERAGE
7		1.502	9.795	17.360	27.155	-28.845	56.000	QUASIPEAK
8		1.502	9.795	12.650	22.445	-23.555	46.000	AVERAGE
9		3.791	9.809	13.960	23.769	-32.231	56.000	QUASIPEAK
10		3.791	9.809	4.860	14.669	-31.331	46.000	AVERAGE
11		17.693	10.382	12.180	22.562	-37.438	60.000	QUASIPEAK
12		17.693	10.382	7.020	17.402	-32.598	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_AD883J20 802.15.1_3DH5_2441MHz



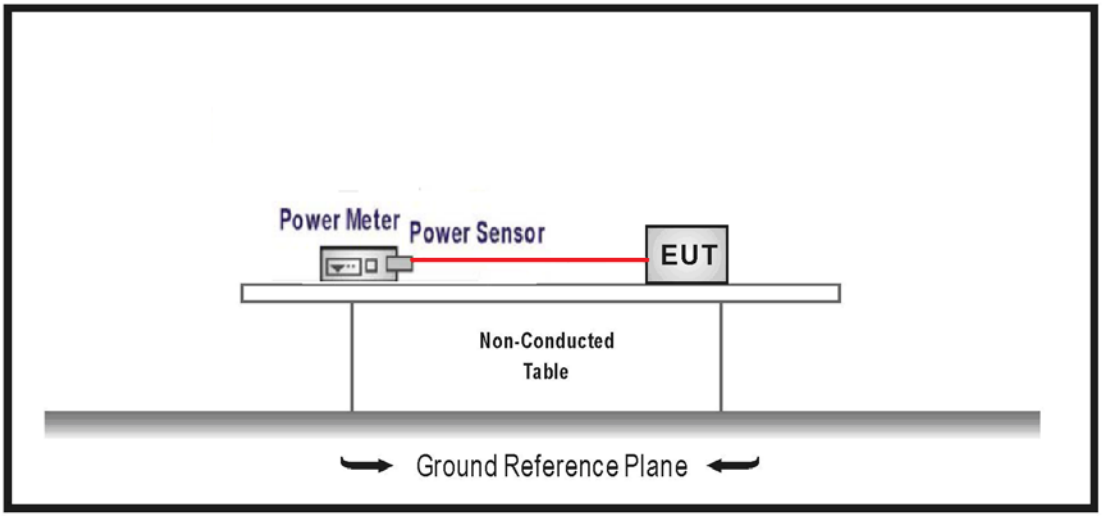
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.680	34.980	44.660	-19.768	64.428	QUASIPEAK
2		0.181	9.680	18.290	27.970	-26.458	54.428	AVERAGE
3		0.220	9.680	28.760	38.440	-24.367	62.807	QUASIPEAK
4		0.220	9.680	20.170	29.850	-22.957	52.807	AVERAGE
5		0.513	9.685	23.410	33.095	-22.905	56.000	QUASIPEAK
6	*	0.513	9.685	19.130	28.815	-17.185	46.000	AVERAGE
7		1.388	9.794	16.070	25.864	-30.136	56.000	QUASIPEAK
8		1.388	9.794	11.550	21.344	-24.656	46.000	AVERAGE
9		3.619	9.816	13.490	23.306	-32.694	56.000	QUASIPEAK
10		3.619	9.816	9.420	19.236	-26.764	46.000	AVERAGE
11		14.326	10.288	16.210	26.498	-33.502	60.000	QUASIPEAK
12		14.326	10.288	13.900	24.188	-25.812	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Output power

3.1. Test Setup



3.2. Test procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

3.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017.

3.5. Test Result

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Output power		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/31	Test Site	SR10-H

GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	5.390	30
39	2441	6.310	30
78	2480	6.590	30

π/4-DQPSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	1.210	30
39	2441	2.250	30
78	2480	2.820	30

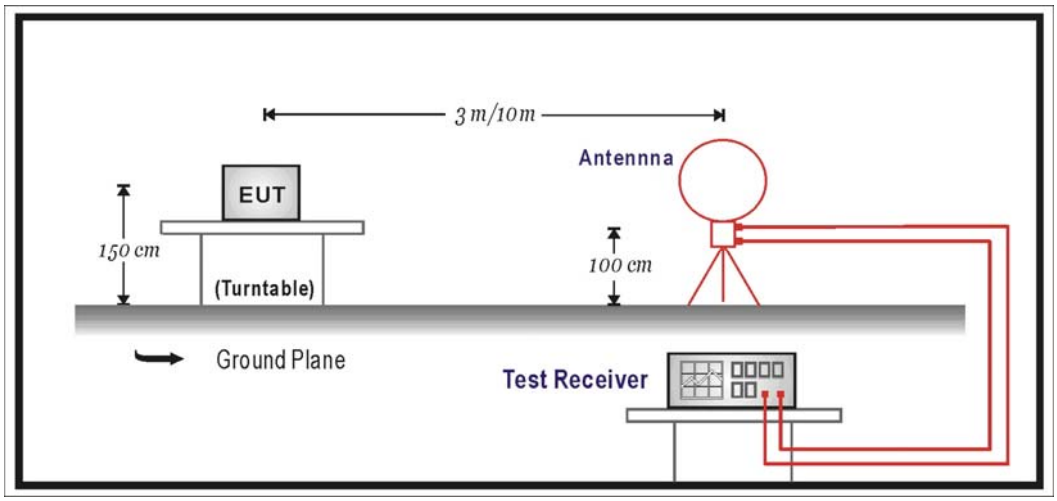
8-DPSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	1.430	30
39	2441	2.320	30
78	2480	3.450	30

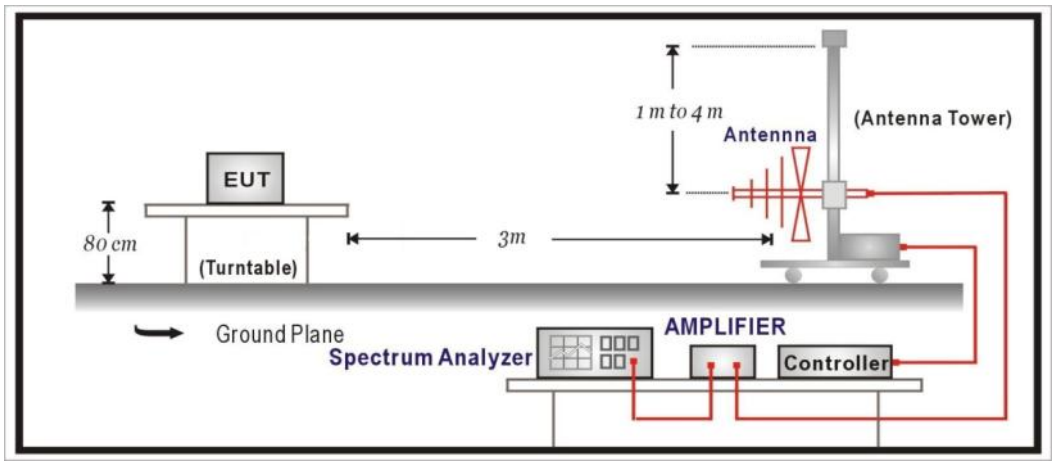
4. Radiated Emission

4.1. Test Setup

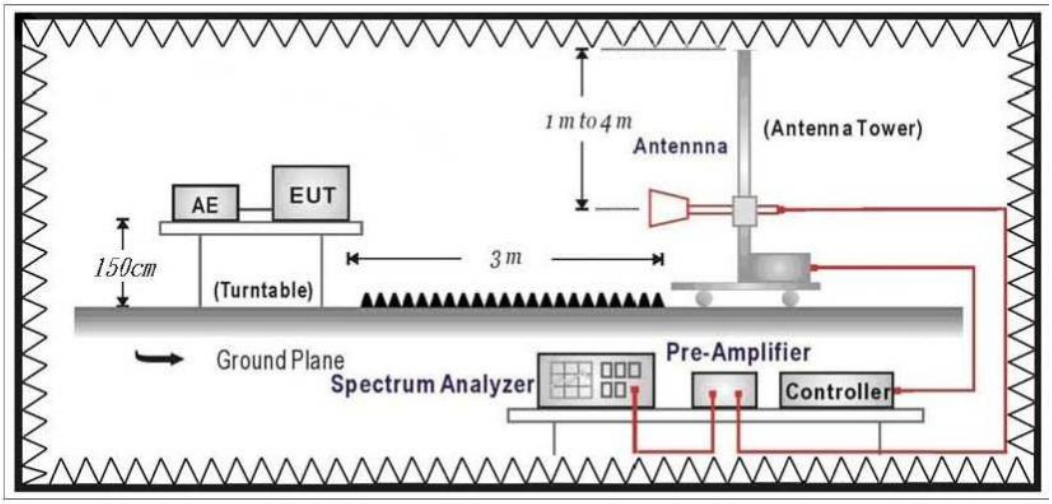
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m	dBuV/m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remarks:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies form 9KHz(inculde The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is 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. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

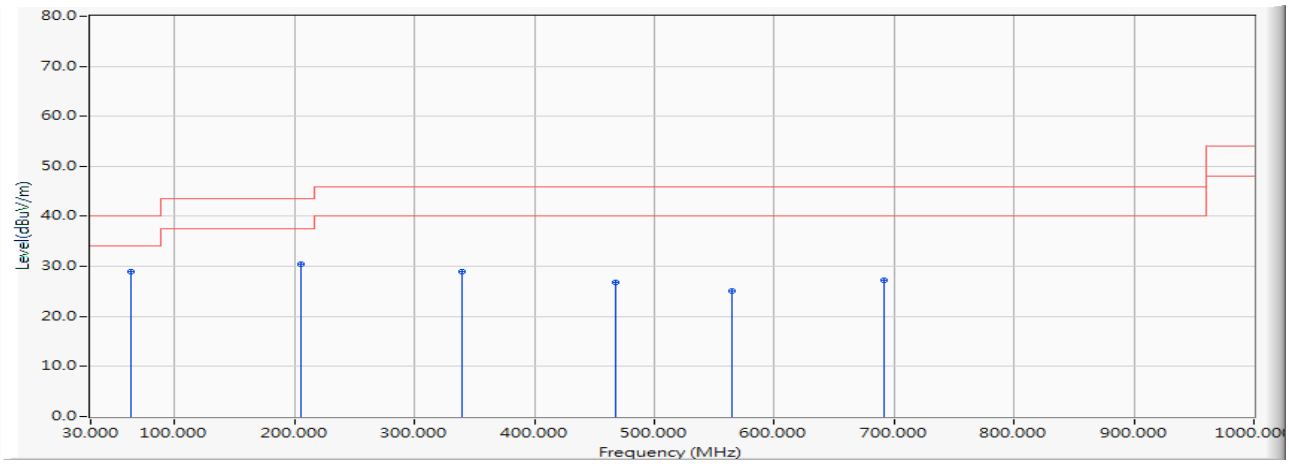
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

4.5. Test Result

30MHz-1GHz Spurious

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

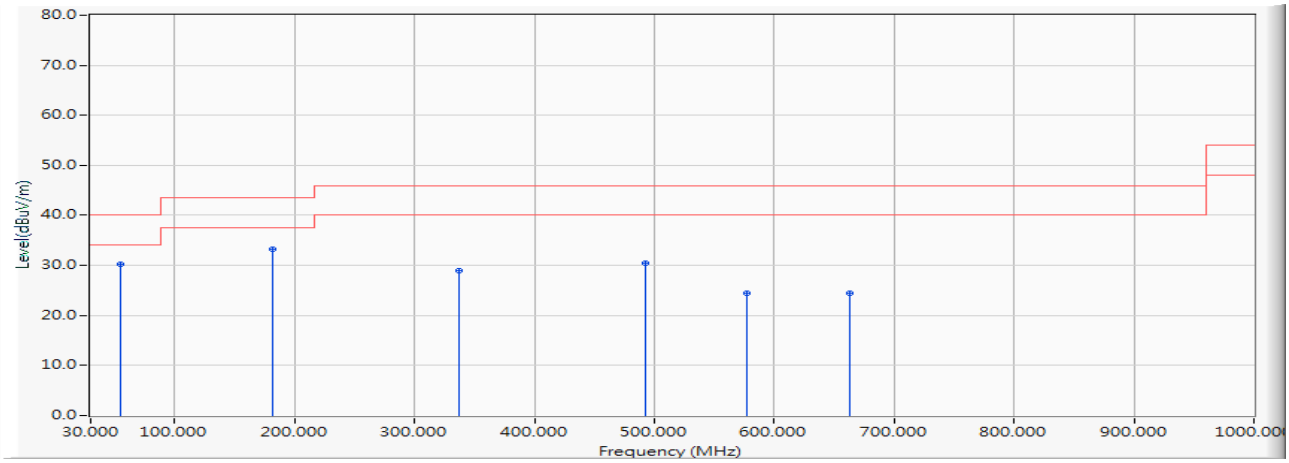


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	63.562	-28.079	57.073	28.994	-11.006	40.000	QUASIPEAK
2		205.473	-22.925	53.279	30.353	-13.147	43.500	QUASIPEAK
3		340.012	-17.873	46.922	29.049	-16.951	46.000	QUASIPEAK
4		468.052	-14.911	41.759	26.847	-19.153	46.000	QUASIPEAK
5		565.246	-13.371	38.552	25.181	-20.819	46.000	QUASIPEAK
6		691.249	-12.315	39.493	27.179	-18.821	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

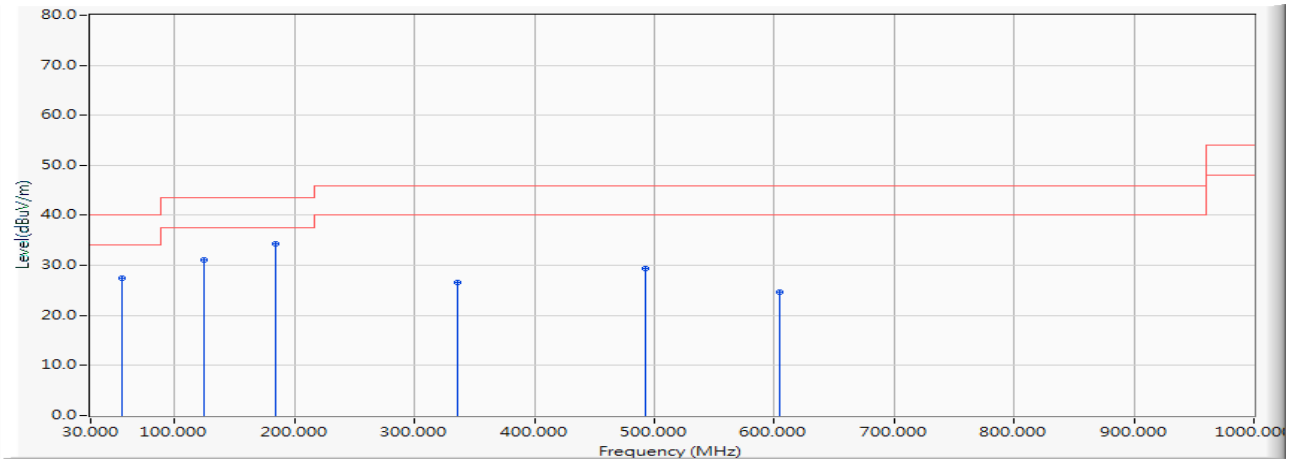


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	54.735	-26.722	57.040	30.317	-9.683	40.000	QUASIPEAK
2		181.902	-24.102	57.424	33.322	-10.178	43.500	QUASIPEAK
3		336.714	-18.085	46.989	28.904	-17.096	46.000	QUASIPEAK
4		492.108	-14.530	45.057	30.526	-15.474	46.000	QUASIPEAK
5		577.468	-13.675	38.172	24.498	-21.502	46.000	QUASIPEAK
6		662.537	-12.500	36.849	24.349	-21.651	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

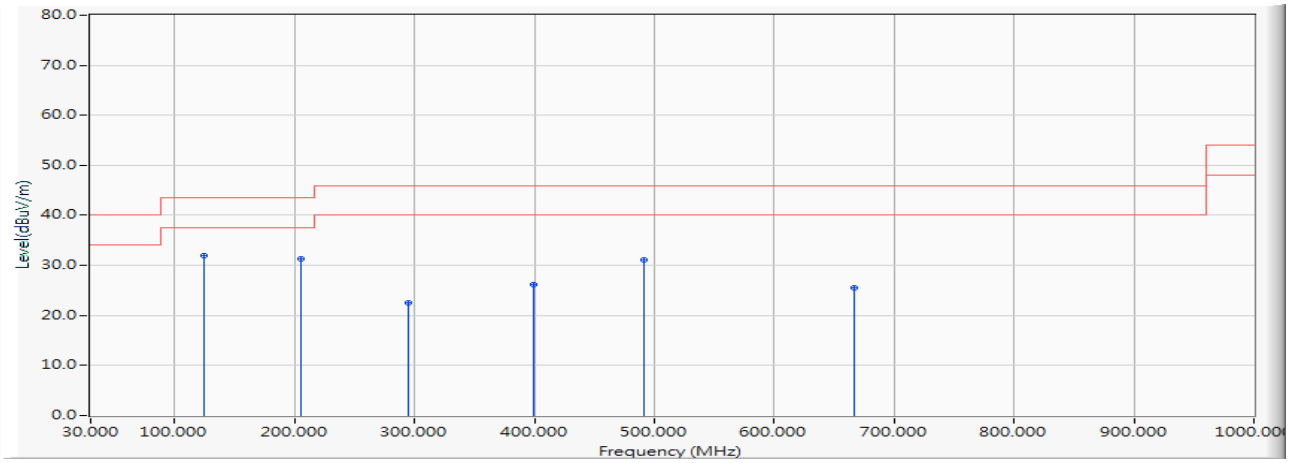


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		55.996	-27.078	54.599	27.521	-12.479	40.000	QUASIPEAK
2		125.060	-21.221	52.417	31.196	-12.304	43.500	QUASIPEAK
3	*	184.133	-23.986	58.225	34.239	-9.261	43.500	QUASIPEAK
4		336.326	-18.111	44.727	26.616	-19.384	46.000	QUASIPEAK
5		492.108	-14.530	43.998	29.467	-16.533	46.000	QUASIPEAK
6		603.949	-12.915	37.640	24.724	-21.276	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

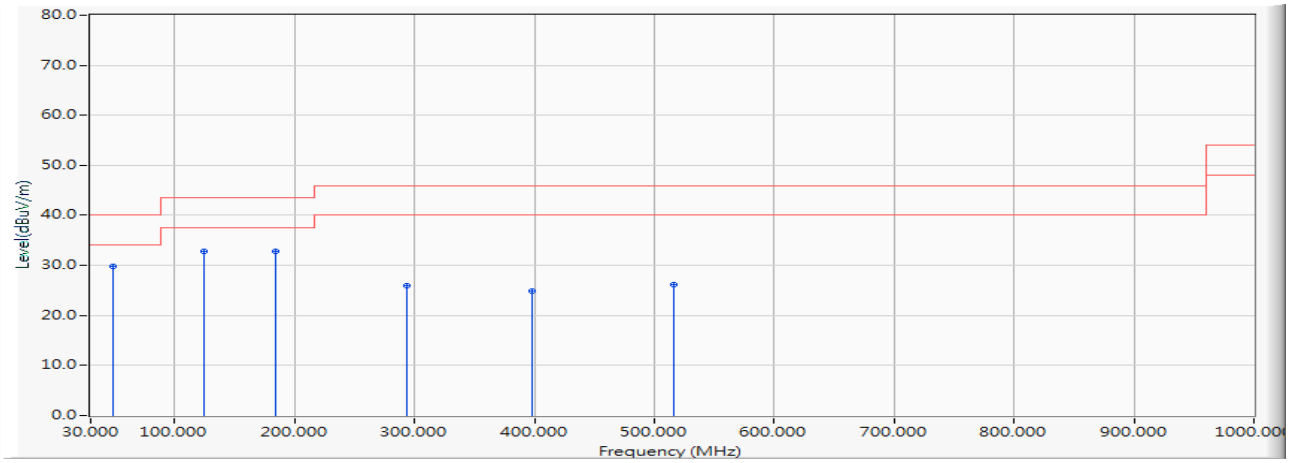


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	125.060	-21.221	53.071	31.850	-11.650	43.500	QUASIPEAK
2		205.667	-22.911	54.238	31.327	-12.173	43.500	QUASIPEAK
3		295.295	-19.552	42.022	22.470	-23.530	46.000	QUASIPEAK
4		399.376	-16.042	42.236	26.193	-19.807	46.000	QUASIPEAK
5		491.914	-14.534	45.584	31.051	-14.949	46.000	QUASIPEAK
6		666.611	-12.205	37.722	25.517	-20.483	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

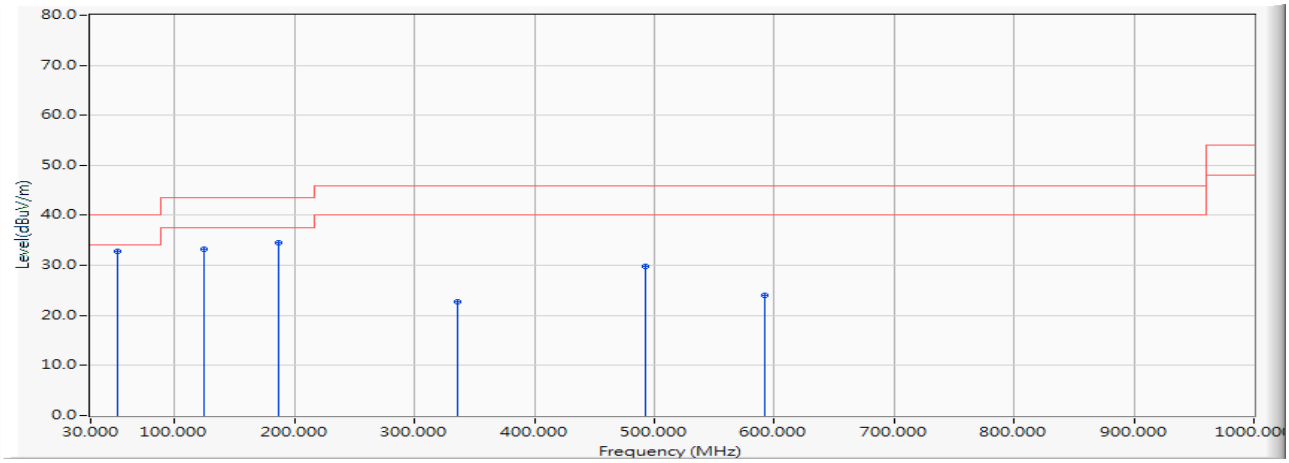


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	48.818	-24.672	54.499	29.827	-10.173	40.000	QUASIPEAK
2		125.060	-21.221	54.051	32.830	-10.670	43.500	QUASIPEAK
3		184.133	-23.986	56.842	32.856	-10.644	43.500	QUASIPEAK
4		293.549	-19.532	45.578	26.045	-19.955	46.000	QUASIPEAK
5		397.630	-16.145	41.079	24.933	-21.067	46.000	QUASIPEAK
6		516.164	-13.964	40.165	26.202	-19.798	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

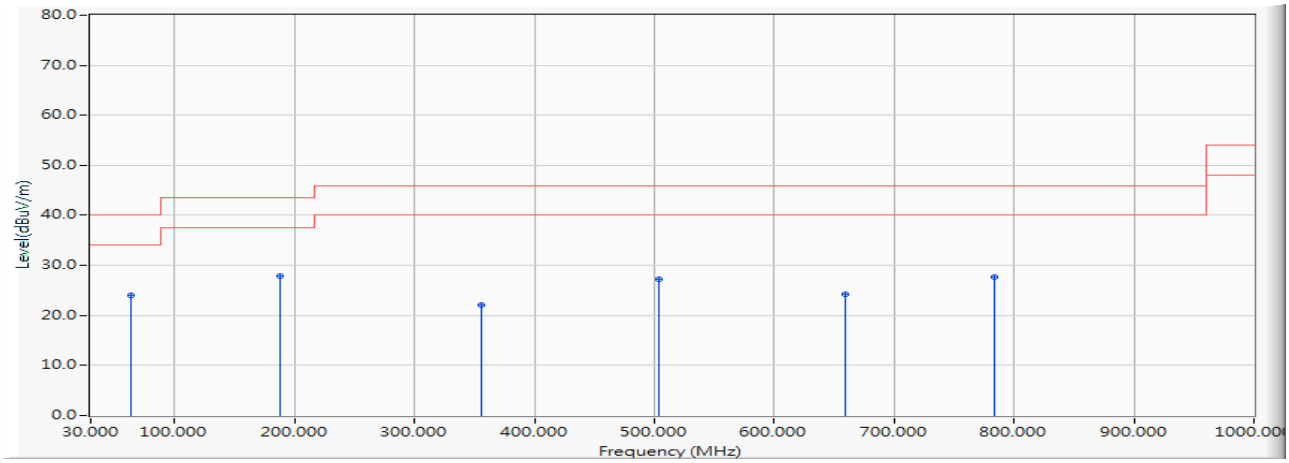


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	52.019	-25.958	58.667	32.709	-7.291	40.000	QUASIPEAK
2		125.060	-21.221	54.439	33.218	-10.282	43.500	QUASIPEAK
3		187.140	-23.829	58.449	34.620	-8.880	43.500	QUASIPEAK
4		336.035	-18.130	40.788	22.658	-23.342	46.000	QUASIPEAK
5		492.108	-14.530	44.426	29.895	-16.105	46.000	QUASIPEAK
6		592.115	-13.551	37.558	24.007	-21.993	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_DH5_2441MHz

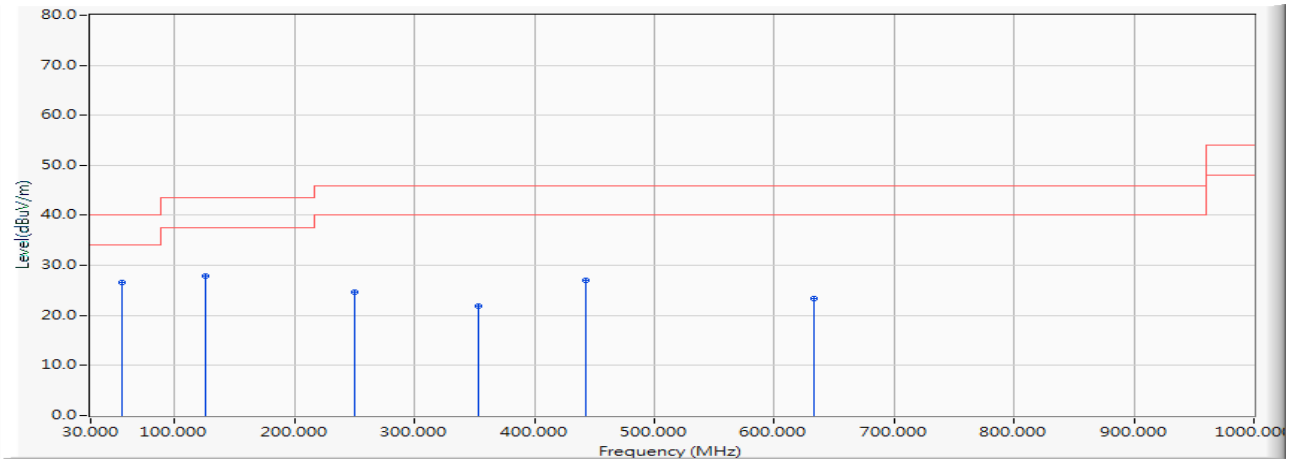


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		62.980	-28.100	52.165	24.066	-15.934	40.000	QUASIPEAK
2	*	187.334	-23.819	51.788	27.969	-15.531	43.500	QUASIPEAK
3		355.629	-17.509	39.687	22.178	-23.822	46.000	QUASIPEAK
4		504.039	-14.246	41.562	27.317	-18.683	46.000	QUASIPEAK
5		659.627	-12.712	36.939	24.228	-21.772	46.000	QUASIPEAK
6		783.399	-10.174	37.895	27.721	-18.279	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_ADP_45BW Y 802.15.1_DH5_2441MHz

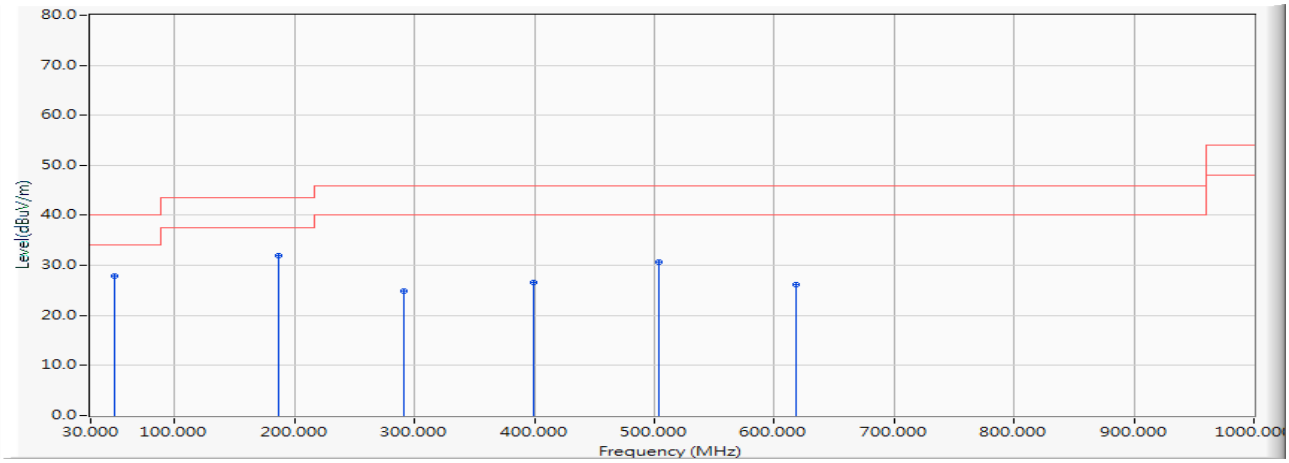


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	55.705	-26.995	53.643	26.647	-13.353	40.000	QUASIPEAK
2		125.157	-21.222	49.013	27.791	-15.709	43.500	QUASIPEAK
3		249.996	-20.297	44.955	24.658	-21.342	46.000	QUASIPEAK
4		353.883	-17.526	39.467	21.940	-24.060	46.000	QUASIPEAK
5		442.347	-15.401	42.349	26.947	-19.053	46.000	QUASIPEAK
6		633.146	-12.763	36.048	23.285	-22.715	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_DH5_2441MHz

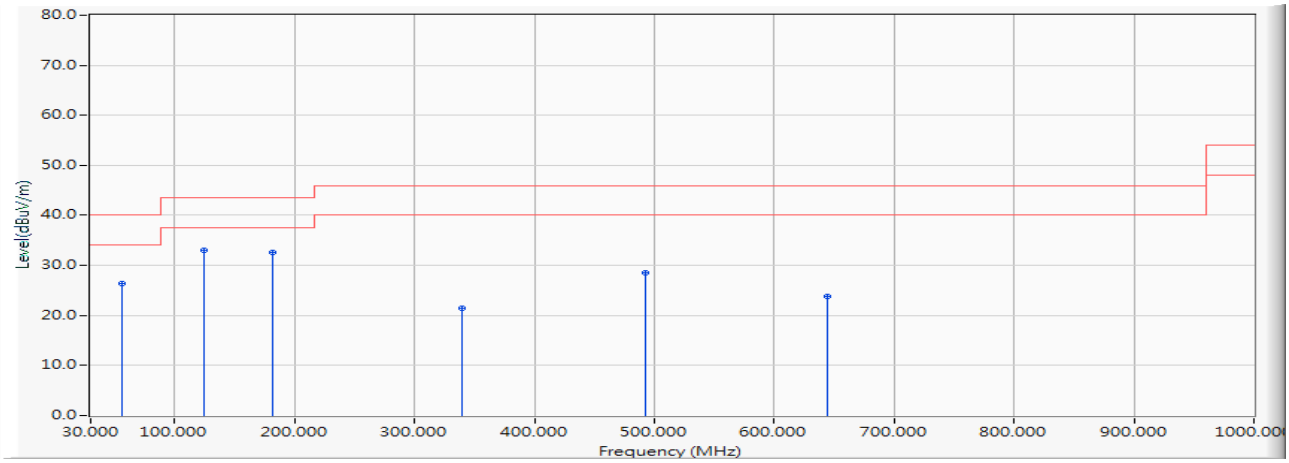


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		49.497	-25.072	53.018	27.946	-12.054	40.000	QUASIPEAK
2	*	187.237	-23.824	55.774	31.950	-11.550	43.500	QUASIPEAK
3		290.639	-19.502	44.321	24.819	-21.181	46.000	QUASIPEAK
4		399.376	-16.042	42.603	26.560	-19.440	46.000	QUASIPEAK
5		504.039	-14.246	44.864	30.619	-15.381	46.000	QUASIPEAK
6		617.917	-12.374	38.634	26.261	-19.739	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_AD2066320 802.15.1_DH5_2441MHz

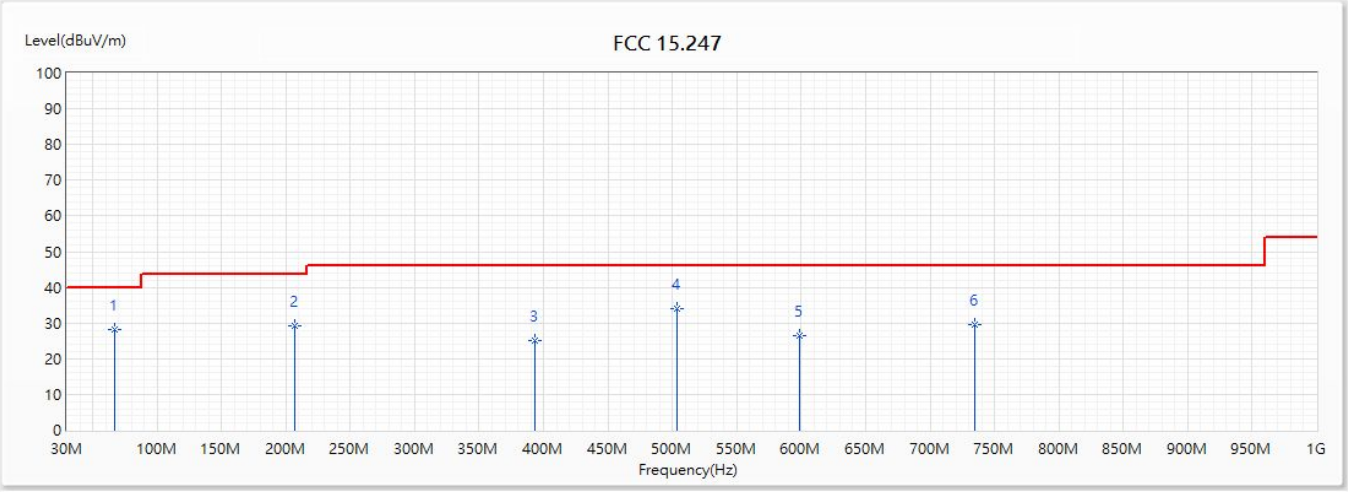


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		56.578	-27.241	53.540	26.298	-13.702	40.000	QUASIPEAK
2	*	125.060	-21.221	54.284	33.063	-10.437	43.500	QUASIPEAK
3		181.999	-24.096	56.669	32.572	-10.928	43.500	QUASIPEAK
4		339.042	-17.930	39.440	21.510	-24.490	46.000	QUASIPEAK
5		492.108	-14.530	43.118	28.587	-17.413	46.000	QUASIPEAK
6		644.010	-13.262	36.964	23.702	-22.298	46.000	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site :	CB2-H	Engineer :	Elwin
Model No :	Lyra Voice	Test Date :	2018/10/25
Test Voltage :	AC 120V / 60Hz	Polarity :	Horizontal
Test Mode :	Mode 4: Transmit_AD883J20		
Note :	802.15.1_DH5_2441MHz		

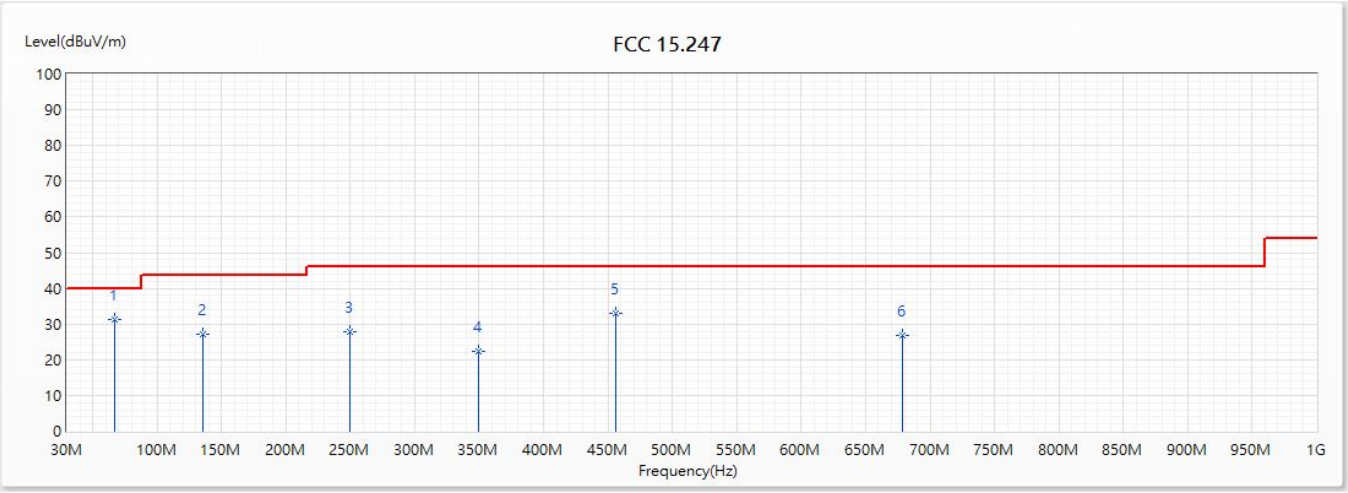


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	66.957	28.11	40.00	-11.89	56.38	-28.27	QP
2	207.122	29.13	43.50	-14.37	52.16	-23.03	QP
3	393.168	25.03	46.00	-20.97	41.19	-16.16	QP
* 4	503.942	34.12	46.00	-11.88	48.54	-14.42	QP
5	599.099	26.32	46.00	-19.68	39.60	-13.28	QP
6	734.22	29.67	46.00	-16.33	41.58	-11.91	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site :	CB2-H	Engineer :	Elwin
Model No :	Lyra Voice	Test Date :	2018/10/25
Test Voltage :	AC 120V / 60Hz	Polarity :	Vertical
Test Mode :	Mode 4: Transmit_AD883J20		
Note :	802.15.1_DH5_2441MHz		



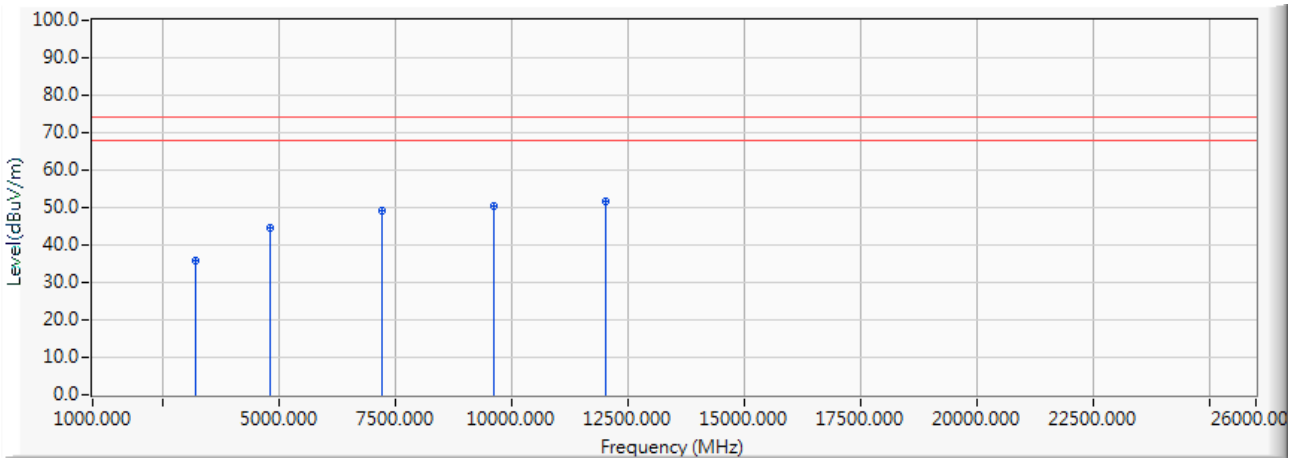
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	66.957	31.14	40.00	-8.86	59.41	-28.27	QP
2	135.148	27.09	43.50	-16.41	48.92	-21.83	QP
3	249.996	27.74	46.00	-18.26	48.15	-20.41	QP
4	349.421	22.20	46.00	-23.80	39.74	-17.54	QP
5	456.121	32.94	46.00	-13.06	48.02	-15.08	QP
6	678.445	26.96	46.00	-19.04	39.51	-12.55	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Harmonic & Spurious:

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2402MHz

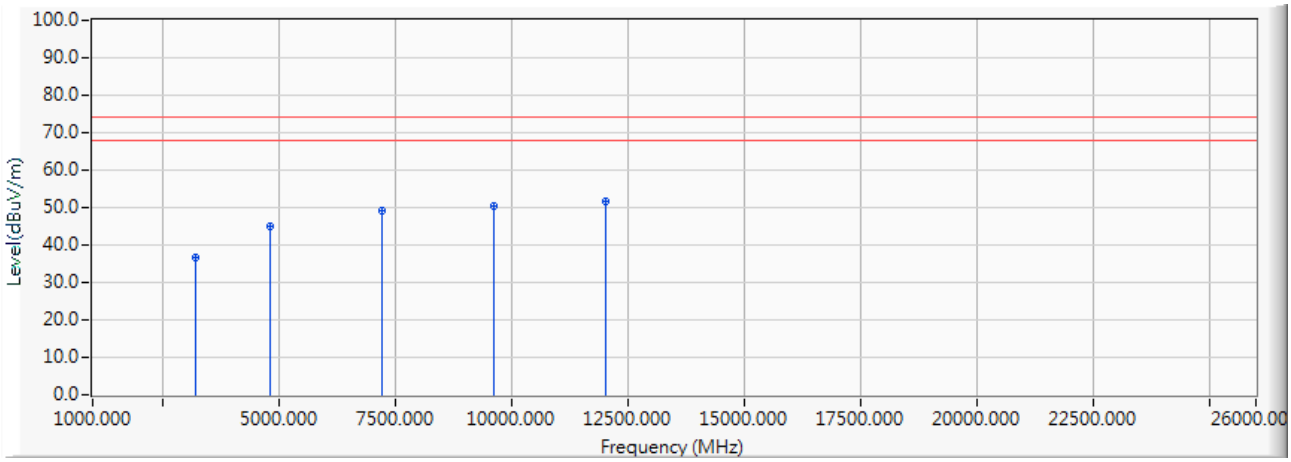


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3202.225	-6.794	42.710	35.915	-38.085	74.000	PEAK
2		4804.253	-0.207	44.770	44.562	-29.438	74.000	PEAK
3		7206.325	6.972	42.170	49.143	-24.857	74.000	PEAK
4		9608.117	12.540	37.760	50.301	-23.699	74.000	PEAK
5	*	12010.324	15.515	36.240	51.755	-22.245	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2402MHz

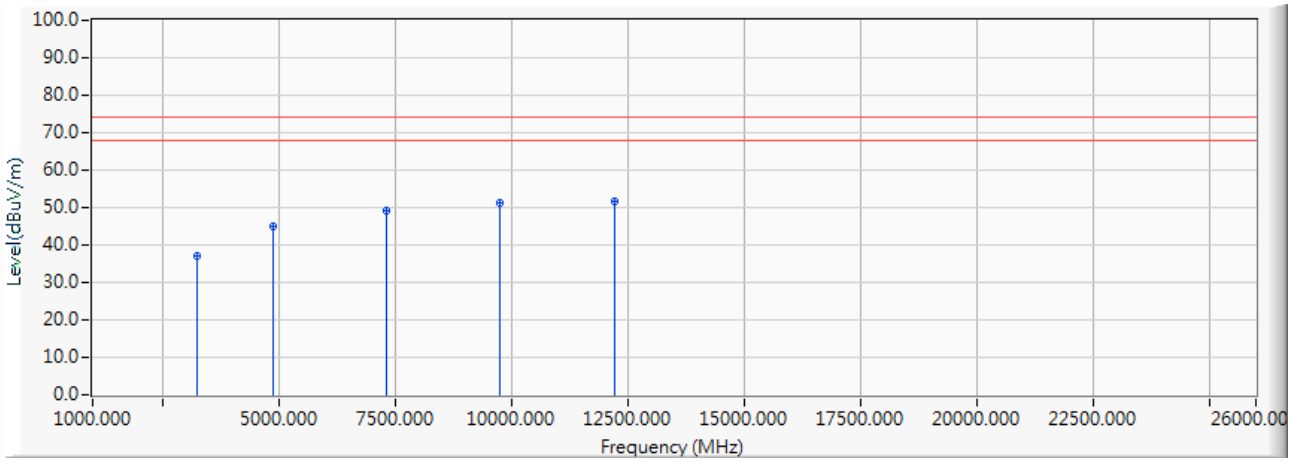


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3202.235	-6.794	43.510	36.715	-37.285	74.000	PEAK
2		4804.638	-0.207	45.110	44.903	-29.097	74.000	PEAK
3		7206.385	6.974	42.330	49.303	-24.697	74.000	PEAK
4		9608.698	12.543	37.750	50.293	-23.707	74.000	PEAK
5	*	12010.037	15.516	36.230	51.746	-22.254	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

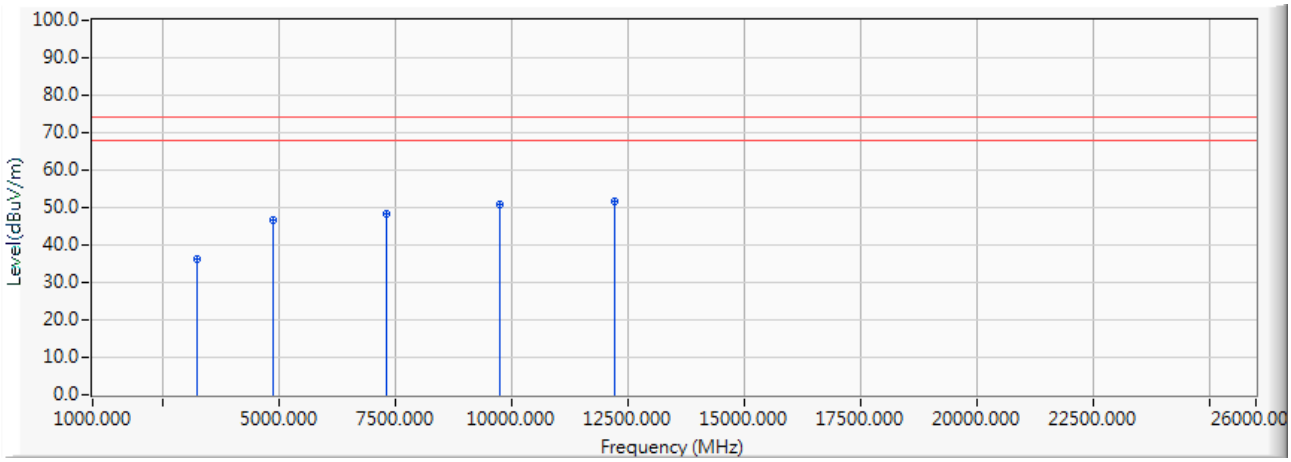


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3254.235	-6.706	43.910	37.204	-36.796	74.000	PEAK
2		4882.250	-0.123	45.070	44.947	-29.053	74.000	PEAK
3		7323.968	7.451	41.750	49.201	-24.799	74.000	PEAK
4		9764.435	12.872	38.290	51.162	-22.838	74.000	PEAK
5	*	12205.138	14.834	36.880	51.714	-22.286	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

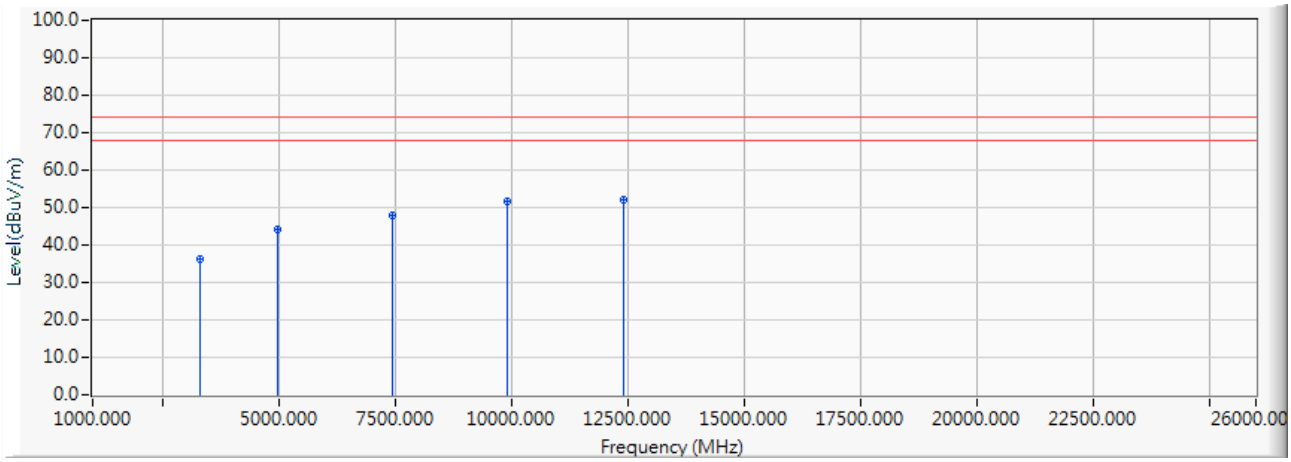


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3254.997	-6.705	43.040	36.335	-37.665	74.000	PEAK
2		4882.218	-0.124	46.950	46.827	-27.173	74.000	PEAK
3		7323.968	7.451	40.790	48.241	-25.759	74.000	PEAK
4		9764.135	12.871	37.840	50.711	-23.289	74.000	PEAK
5	*	12204.968	14.834	37.030	51.864	-22.136	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2480MHz

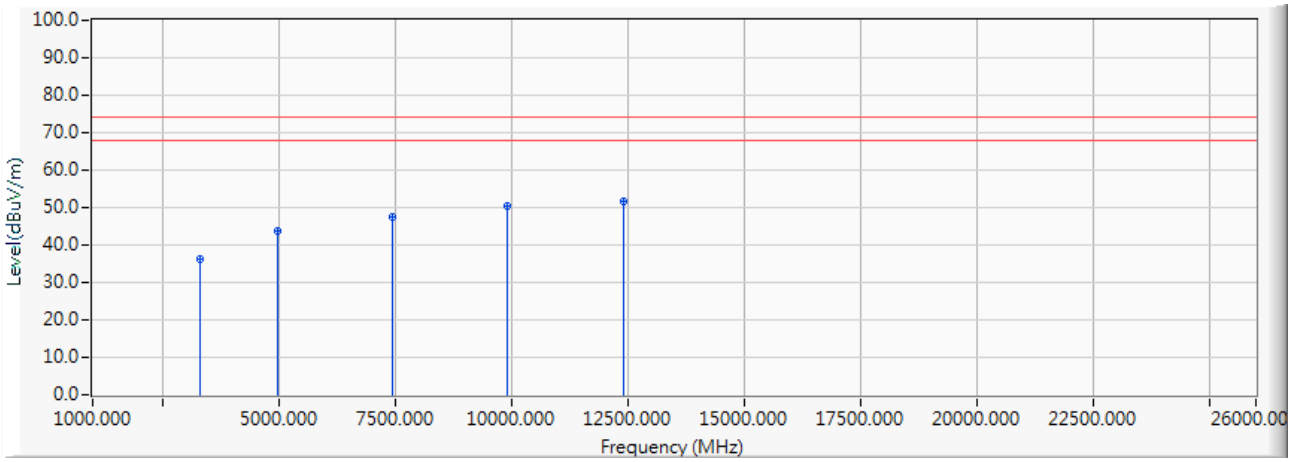


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3306.935	-6.601	42.880	36.278	-37.722	74.000	PEAK
2		4960.038	-0.035	44.040	44.006	-29.994	74.000	PEAK
3		7440.137	7.868	39.950	47.819	-26.181	74.000	PEAK
4		9920.068	13.091	38.470	51.561	-22.439	74.000	PEAK
5	*	12400.019	15.733	36.230	51.963	-22.037	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2480MHz

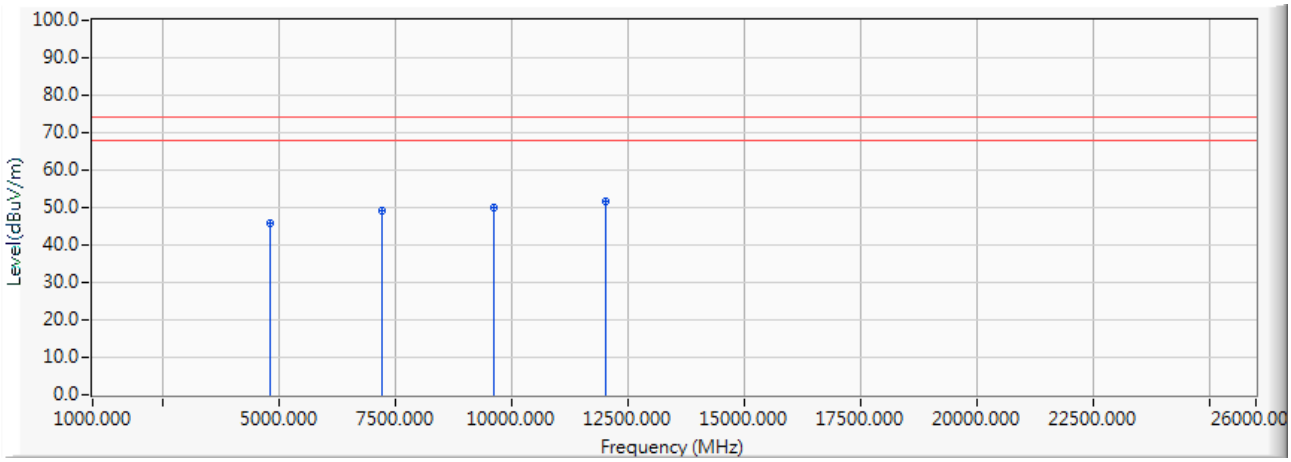


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3306.527	-6.602	42.810	36.207	-37.793	74.000	PEAK
2		4961.052	-0.033	43.610	43.577	-30.423	74.000	PEAK
3		7440.528	7.870	39.510	47.380	-26.620	74.000	PEAK
4		9921.047	13.092	37.380	50.473	-23.527	74.000	PEAK
5	*	12401.054	15.741	36.111	51.852	-22.148	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2402MHz

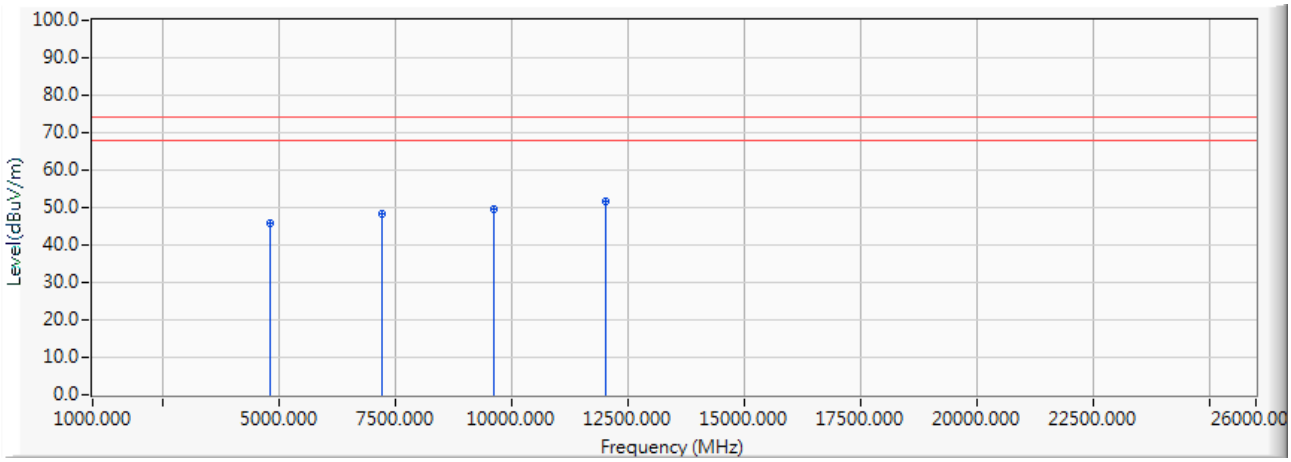


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.127	-0.208	46.180	45.972	-28.028	74.000	PEAK
2		7206.132	6.971	42.220	49.191	-24.809	74.000	PEAK
3		9608.814	12.543	37.430	49.973	-24.027	74.000	PEAK
4	*	12011.363	15.510	36.250	51.761	-22.239	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2402MHz

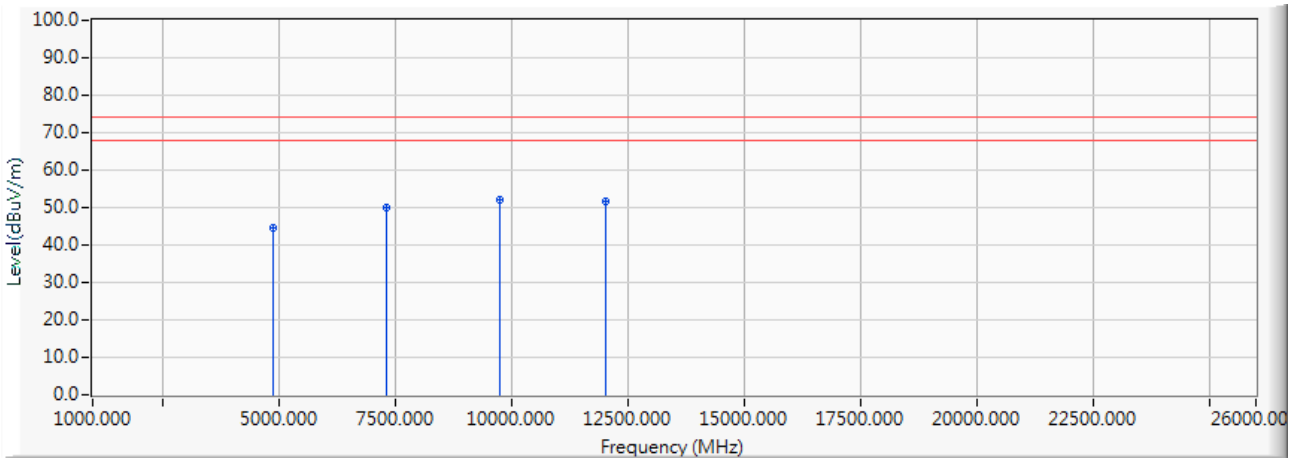


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.412	-0.207	45.950	45.743	-28.257	74.000	PEAK
2		7206.638	6.976	41.530	48.506	-25.494	74.000	PEAK
3		9608.204	12.542	37.180	49.721	-24.279	74.000	PEAK
4	*	12010.127	15.515	36.330	51.846	-22.154	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

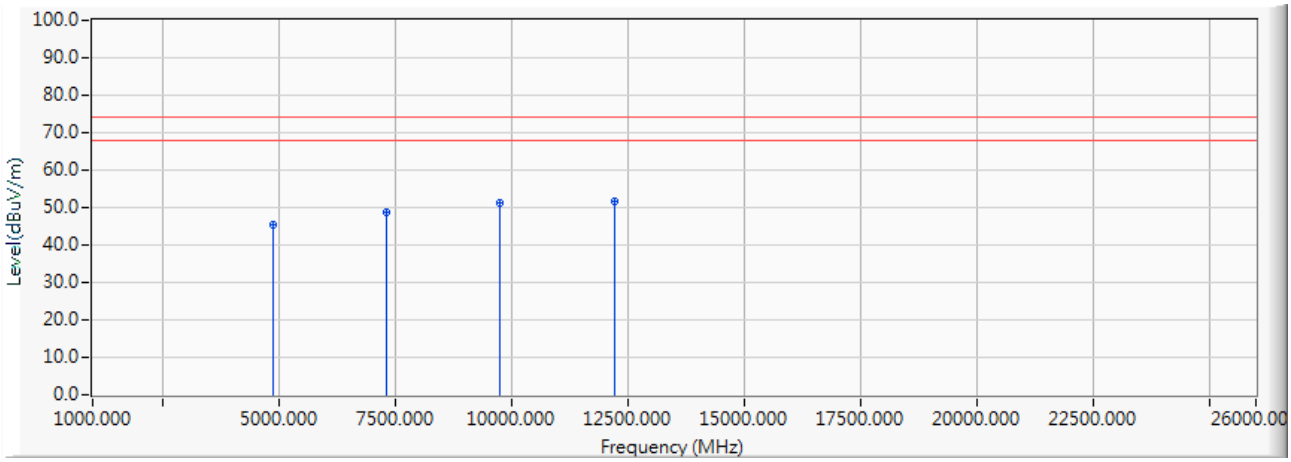


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4882.257	-0.123	44.790	44.667	-29.333	74.000	PEAK
2		7323.144	7.448	42.690	50.138	-23.862	74.000	PEAK
3	*	9764.685	12.873	39.160	52.032	-21.968	74.000	PEAK
4		12011.363	15.510	36.230	51.741	-22.259	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

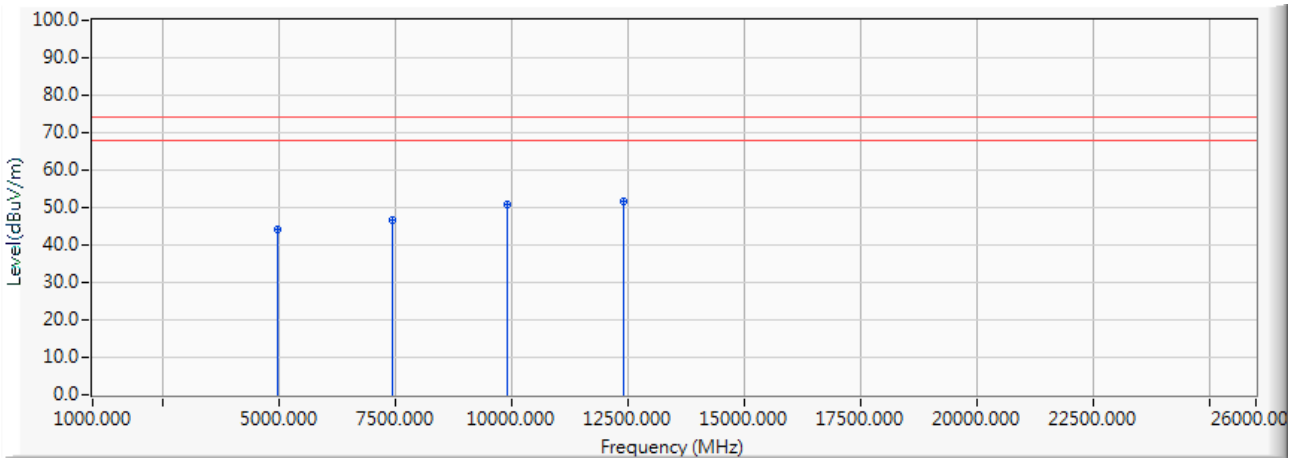


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4882.263	-0.123	45.560	45.437	-28.563	74.000	PEAK
2		7323.368	7.449	41.450	48.899	-25.101	74.000	PEAK
3		9764.452	12.872	38.280	51.152	-22.848	74.000	PEAK
4	*	12205.637	14.832	36.933	51.765	-22.235	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2480MHz

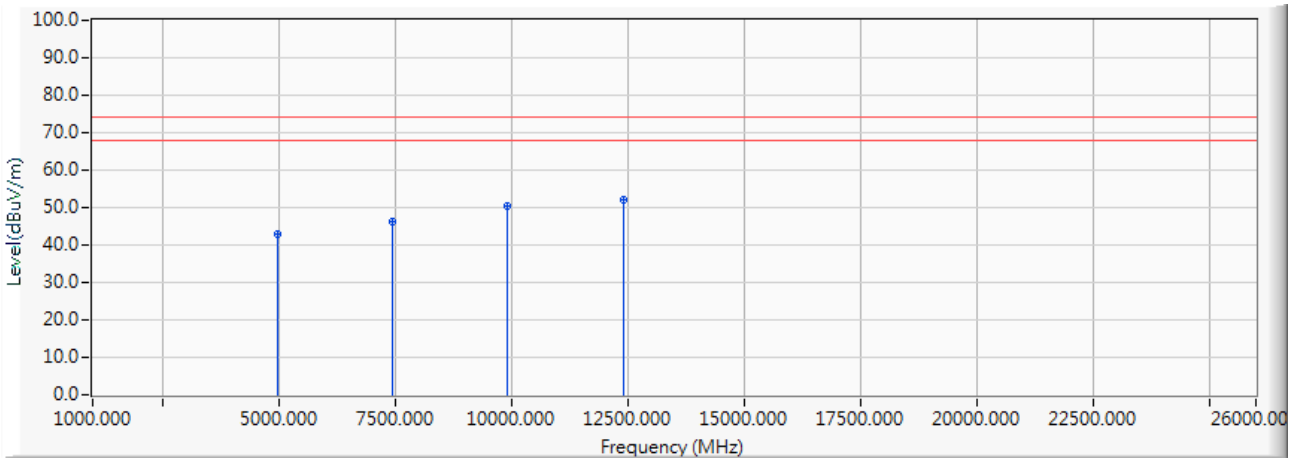


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.587	-0.034	44.060	44.026	-29.974	74.000	PEAK
2		7440.135	7.868	38.820	46.689	-27.311	74.000	PEAK
3		9920.134	13.091	37.860	50.951	-23.049	74.000	PEAK
4	*	12401.235	15.742	36.010	51.752	-22.248	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2480MHz

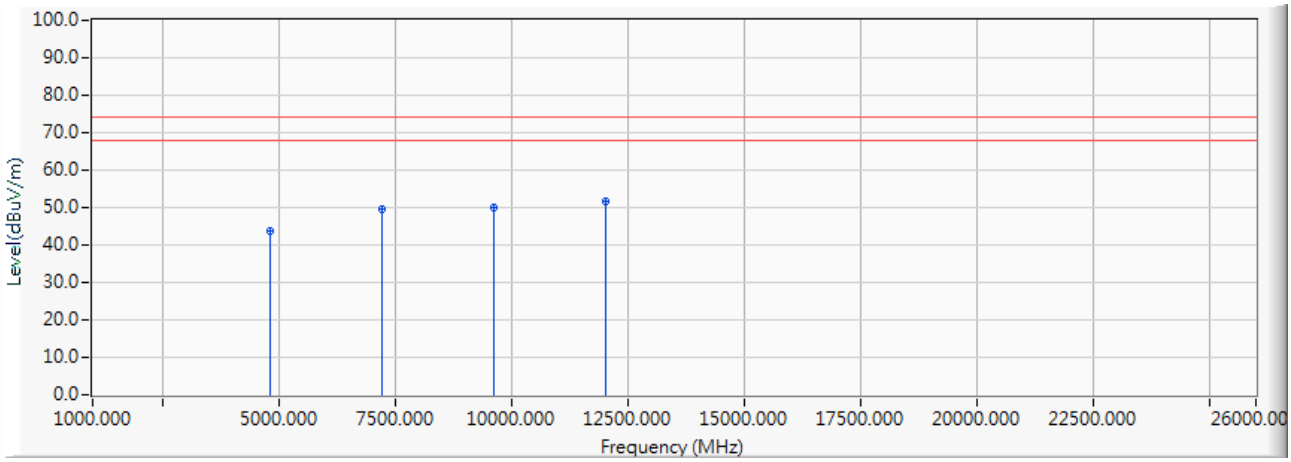


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.052	-0.035	42.960	42.926	-31.074	74.000	PEAK
2		7440.027	7.868	38.460	46.329	-27.671	74.000	PEAK
3		9921.427	13.093	37.210	50.303	-23.697	74.000	PEAK
4	*	12411.047	15.812	36.070	51.881	-22.119	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2402MHz

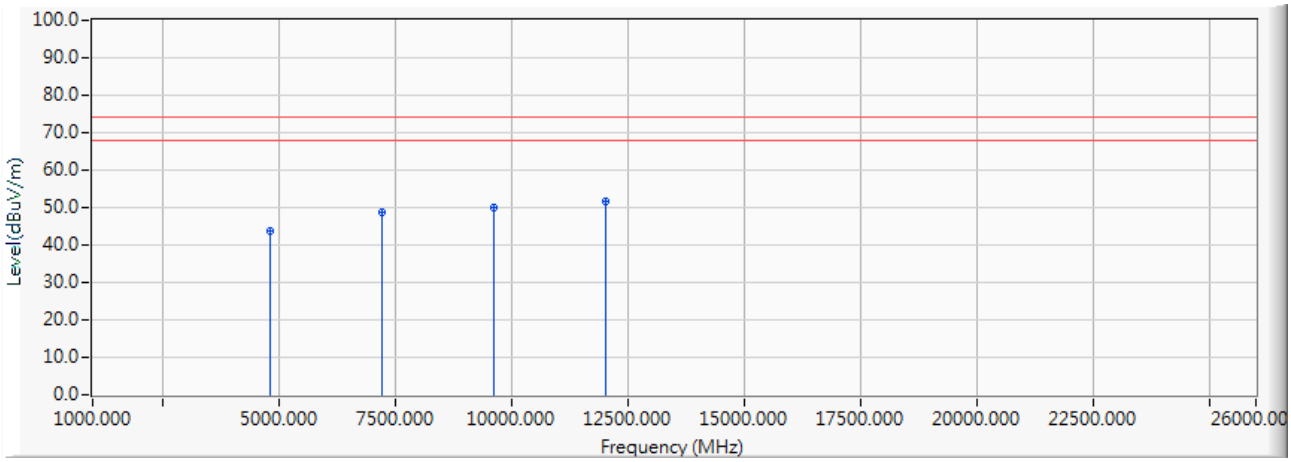


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.637	-0.207	44.130	43.923	-30.077	74.000	PEAK
2		7206.357	6.974	42.430	49.403	-24.597	74.000	PEAK
3		9608.164	12.542	37.610	50.151	-23.849	74.000	PEAK
4	*	12010.028	15.516	36.120	51.636	-22.364	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2402MHz

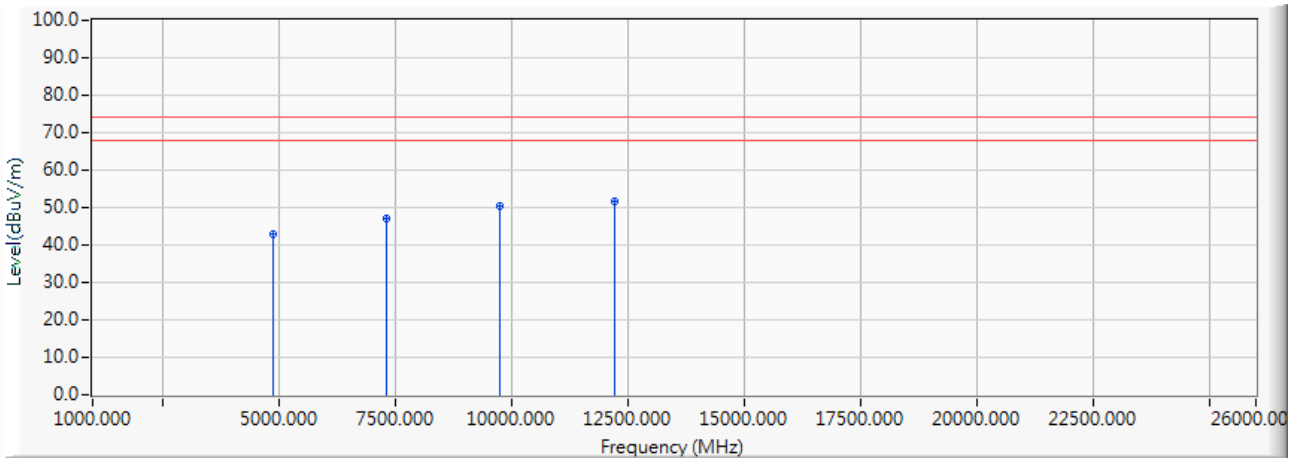


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.905	-0.207	43.970	43.763	-30.237	74.000	PEAK
2		7206.968	6.979	41.590	48.569	-25.431	74.000	PEAK
3		9608.364	12.542	37.250	49.792	-24.208	74.000	PEAK
4	*	12010.008	15.516	36.240	51.756	-22.244	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

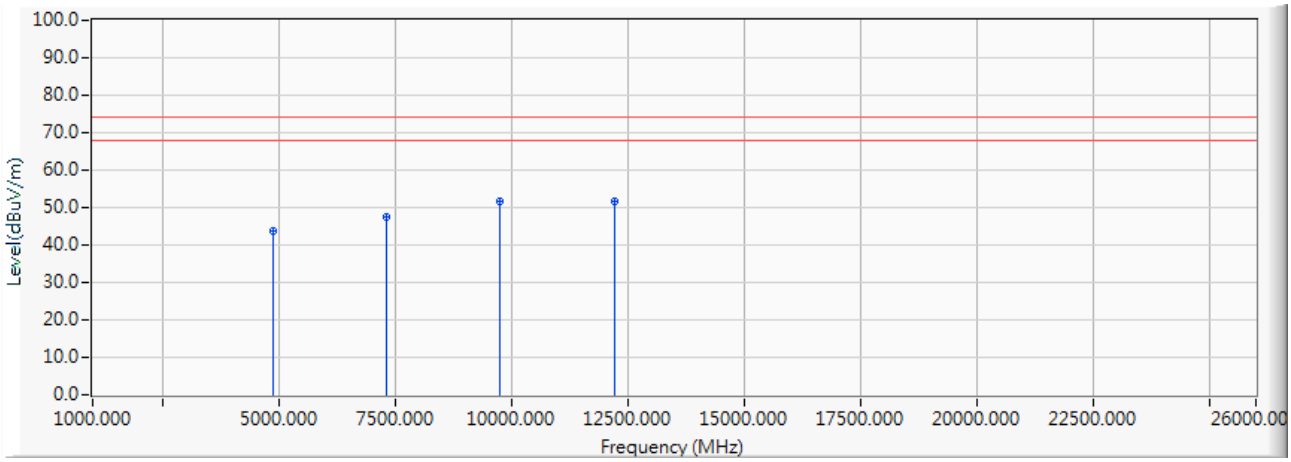


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4882.135	-0.124	42.990	42.867	-31.133	74.000	PEAK
2		7323.586	7.449	39.760	47.209	-26.791	74.000	PEAK
3		9764.685	12.873	37.710	50.582	-23.418	74.000	PEAK
4	*	12205.984	14.831	36.930	51.761	-22.239	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

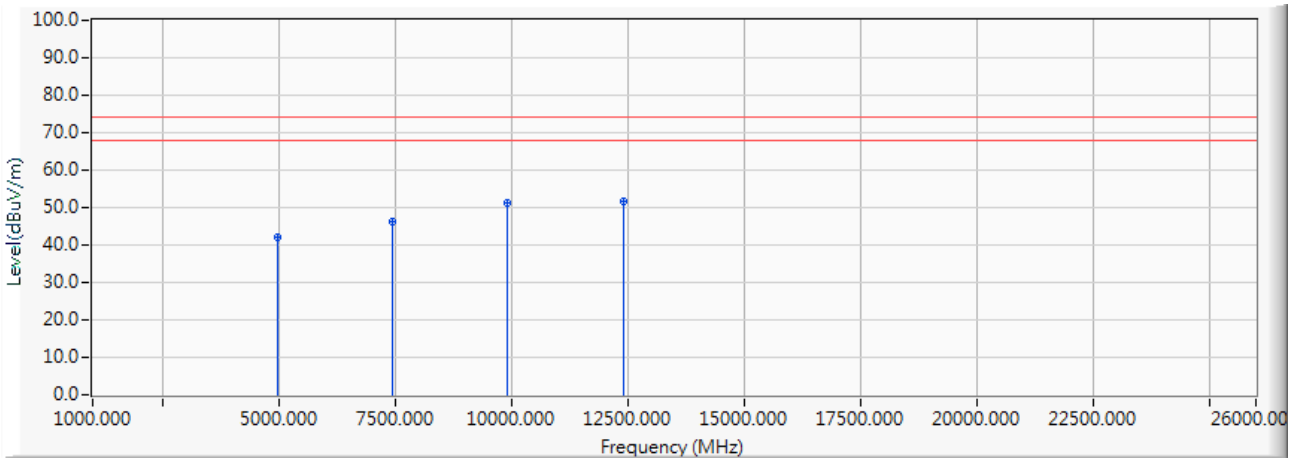


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4882.647	-0.122	43.730	43.607	-30.393	74.000	PEAK
2		7323.415	7.449	39.870	47.319	-26.681	74.000	PEAK
3		9764.586	12.872	38.810	51.682	-22.318	74.000	PEAK
4	*	12205.433	14.832	36.930	51.763	-22.237	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2480MHz

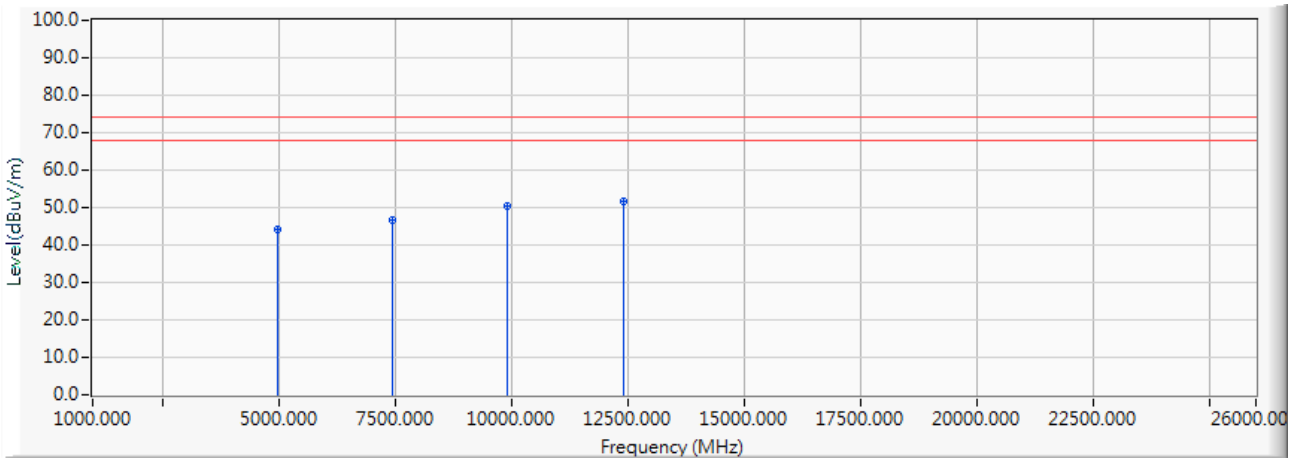


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.634	-0.034	42.280	42.246	-31.754	74.000	PEAK
2		7440.425	7.870	38.510	46.380	-27.620	74.000	PEAK
3		9920.635	13.093	37.950	51.042	-22.958	74.000	PEAK
4	*	12401.367	15.743	35.920	51.663	-22.337	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2480MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.018	-0.035	44.180	44.146	-29.854	74.000	PEAK
2		7441.659	7.874	38.680	46.554	-27.446	74.000	PEAK
3		9920.475	13.092	37.400	50.492	-23.508	74.000	PEAK
4	*	12400.524	15.737	36.090	51.827	-22.173	74.000	PEAK

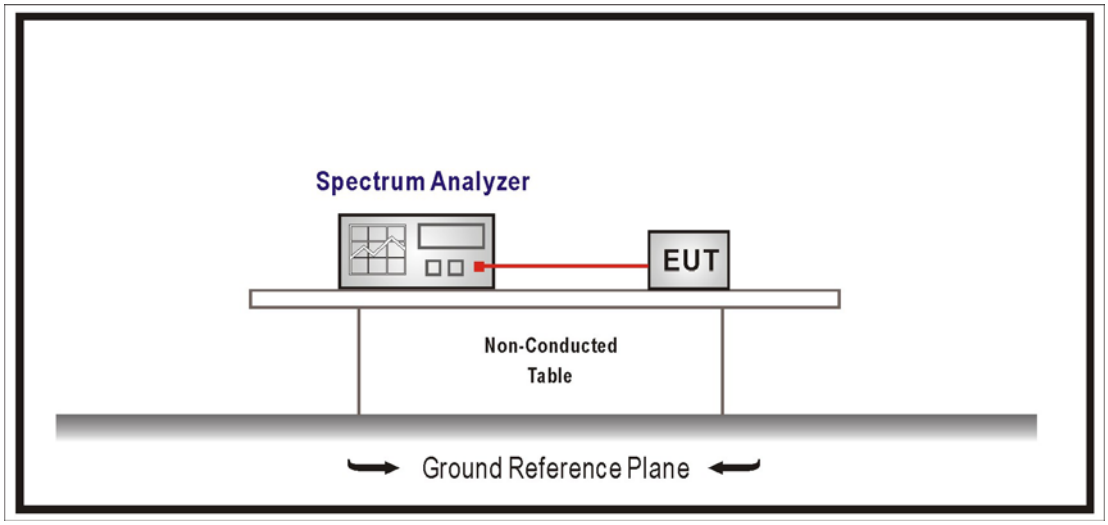
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Setup

RF Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

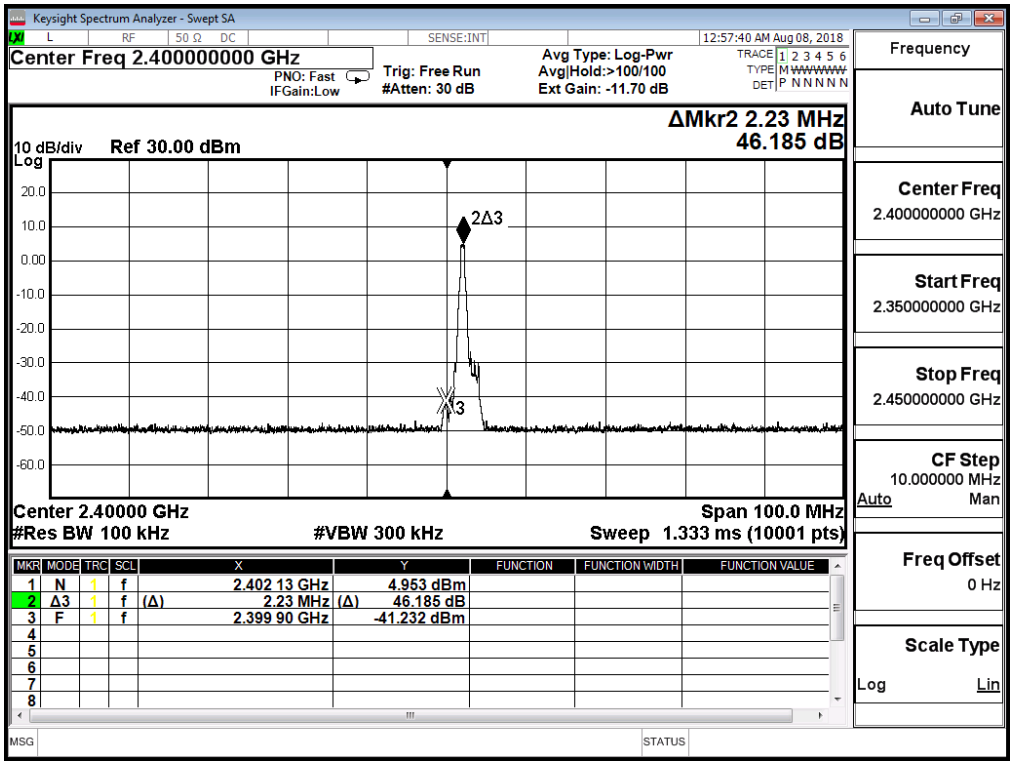
5.5. Test Result

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/04	Test Site	SR10-H

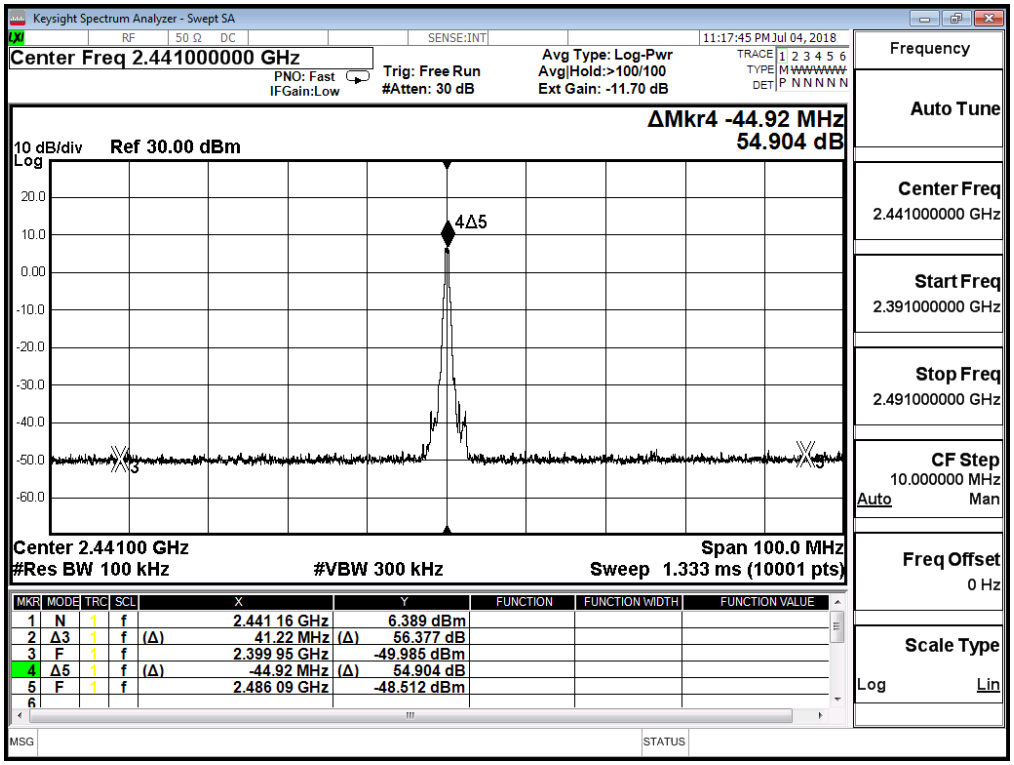
GFSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	46.185	≧30
39	2441	50.465	≧30
78	2480	48.431	≧30

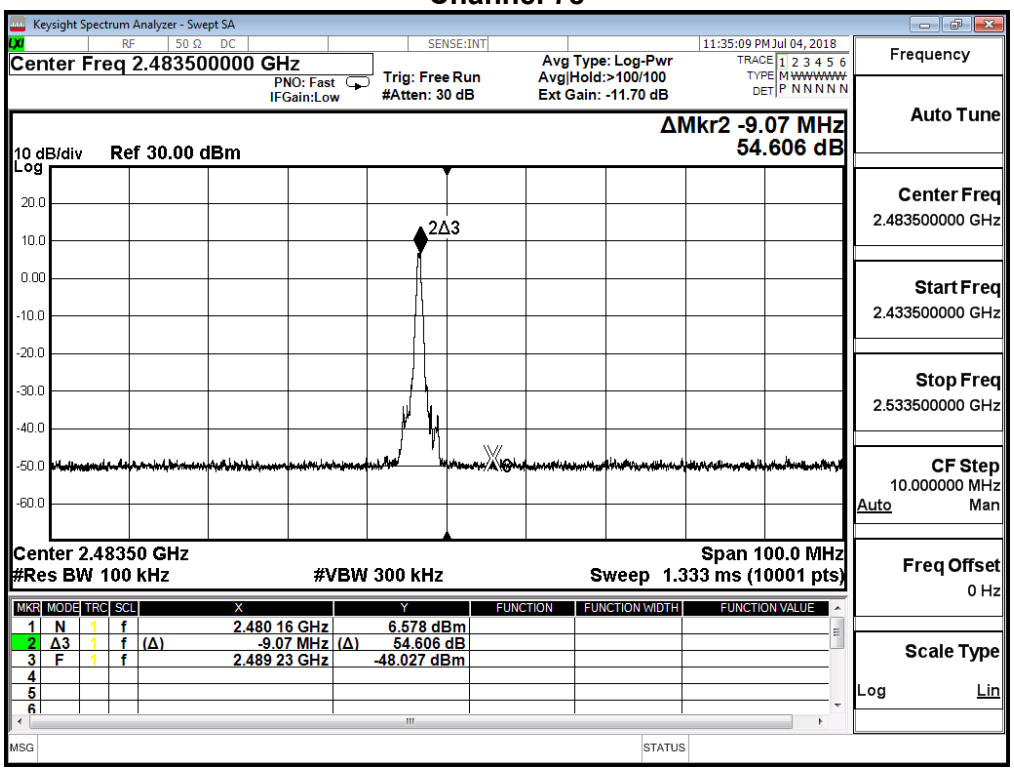
Channel 00



Channel 39



Channel 78

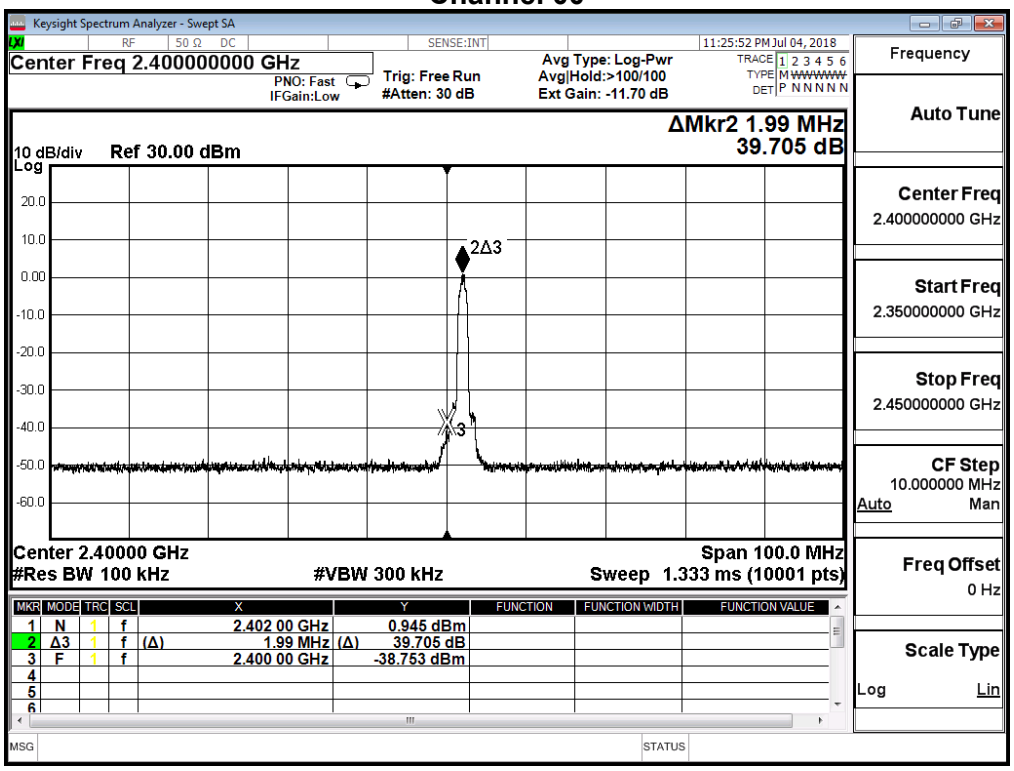


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/04	Test Site	SR10-H

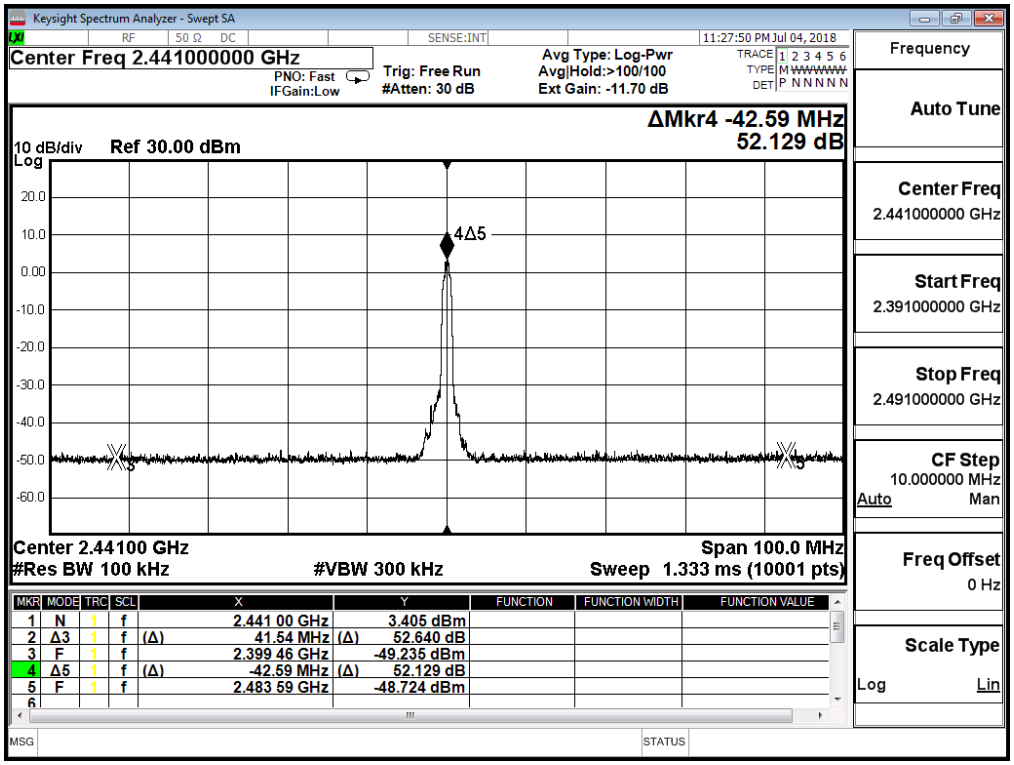
π/4-DQPSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	39.705	≧30
39	2441	39.735	≧30
78	2480	49.663	≧30

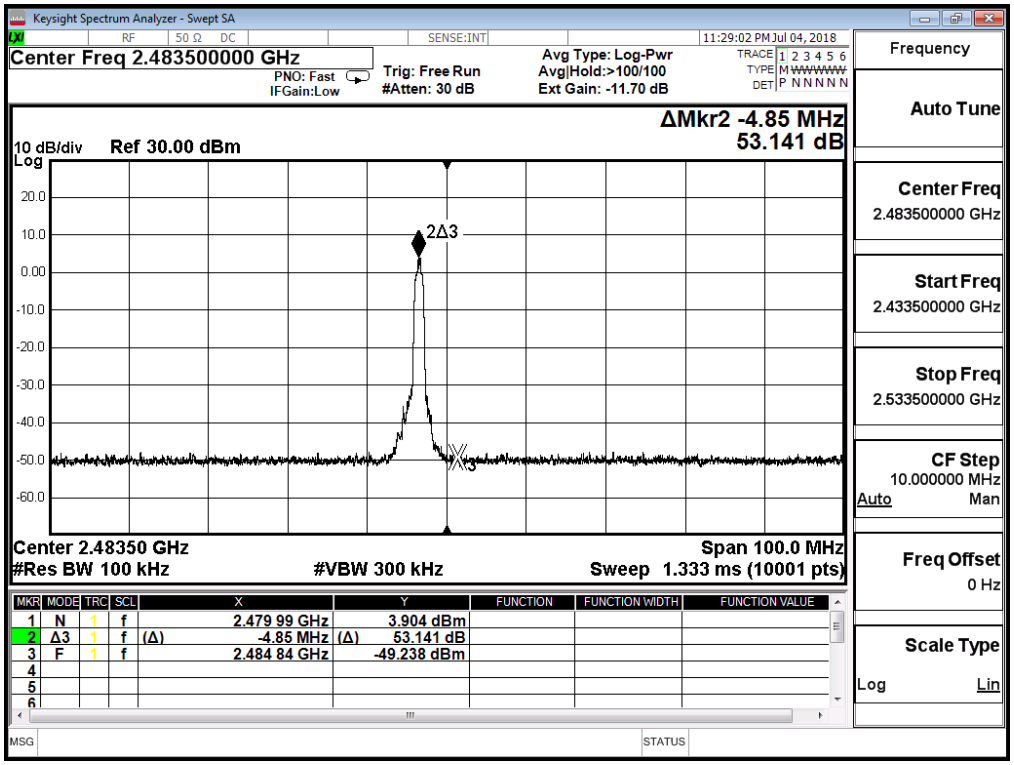
Channel 00



Channel 39



Channel 78

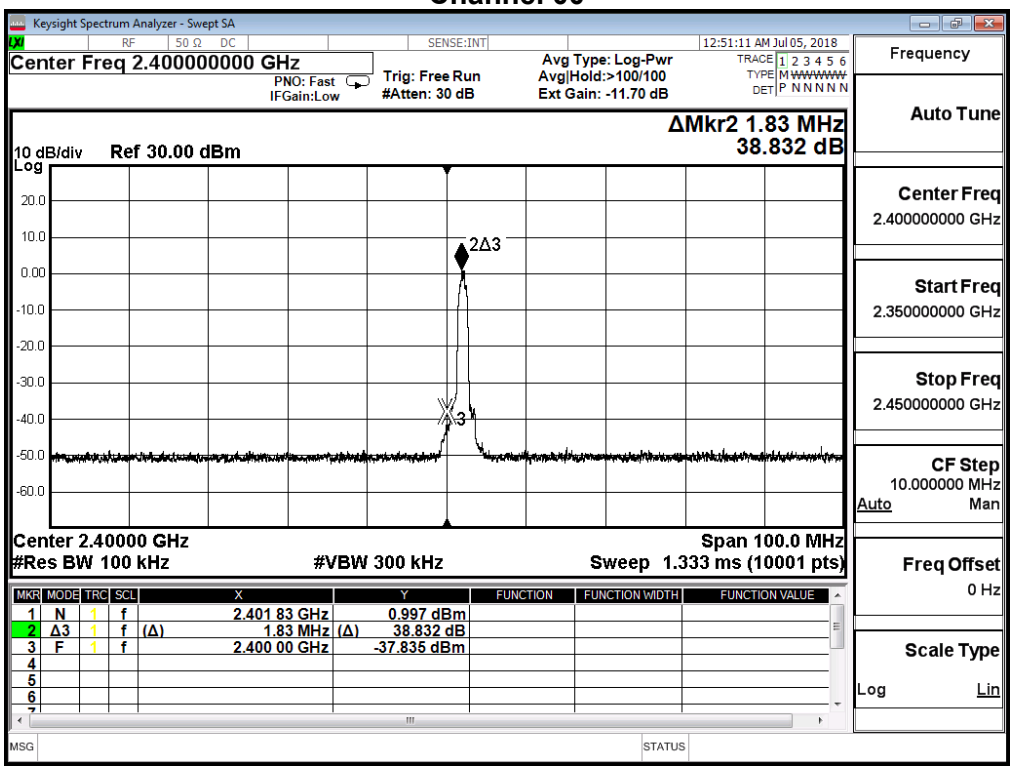


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/04	Test Site	SR10-H

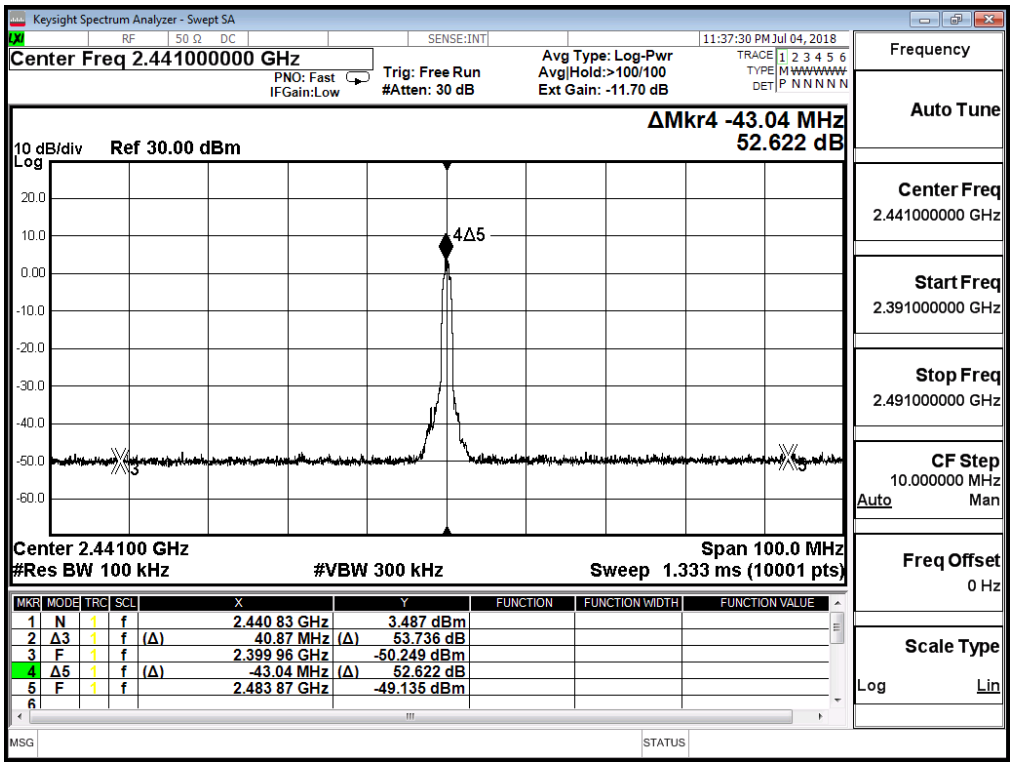
8-DPSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	38.832	≧30
39	2441	46.254	≧30
78	2480	43.558	≧30

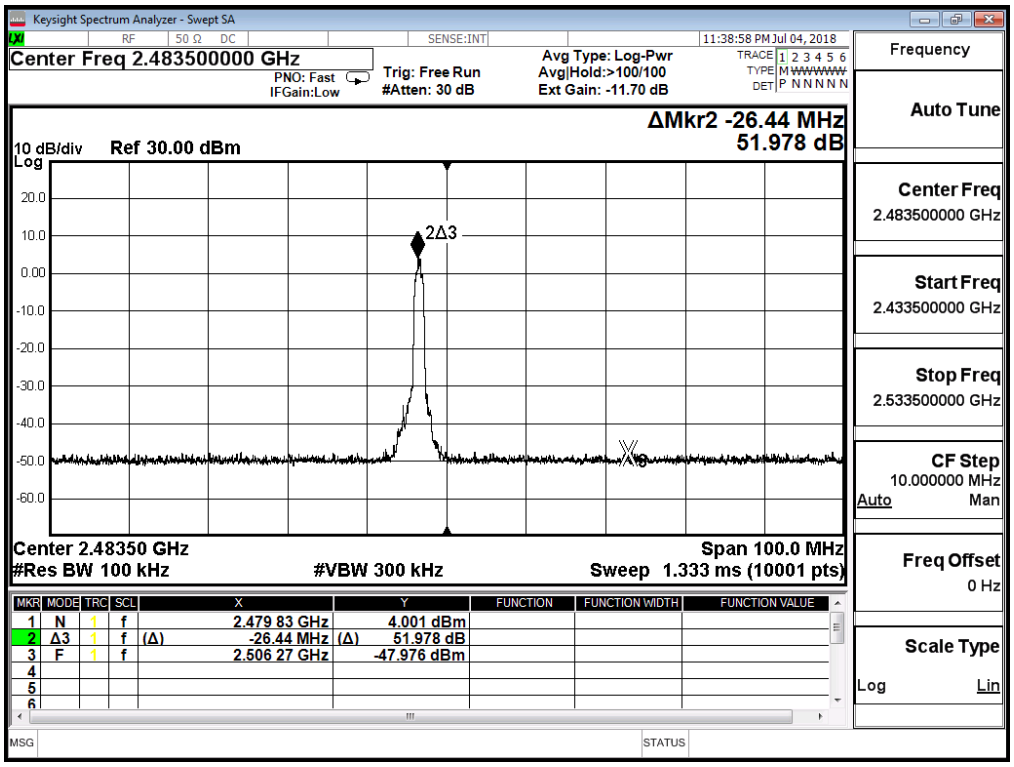
Channel 00



Channel 39

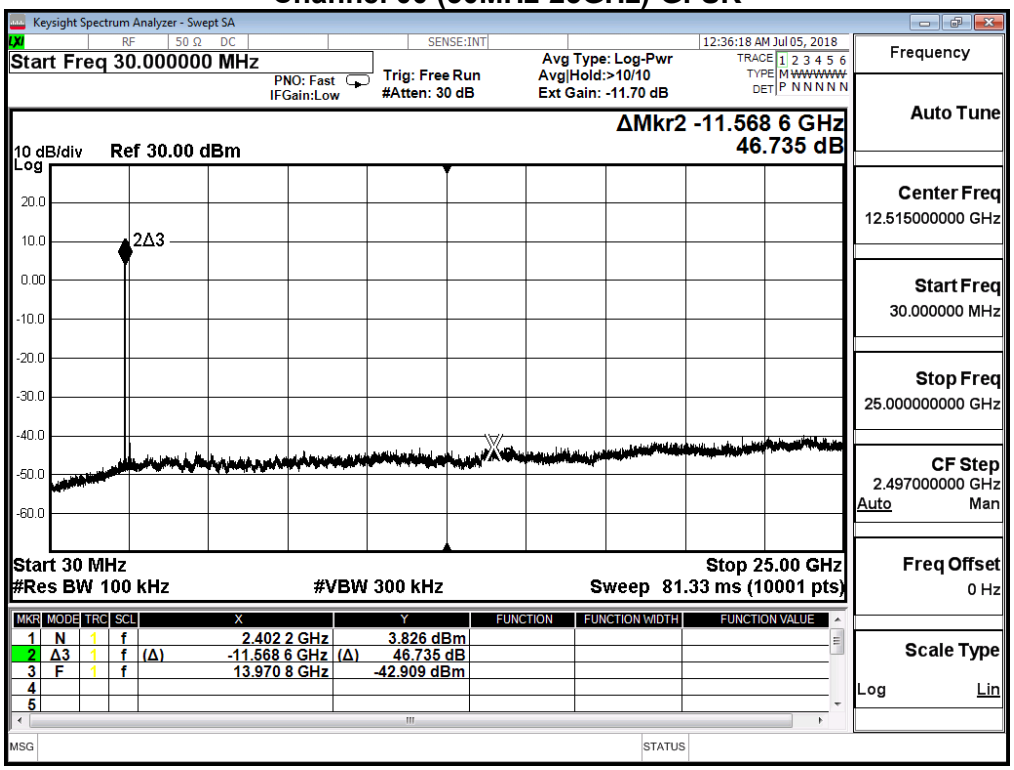


Channel 78

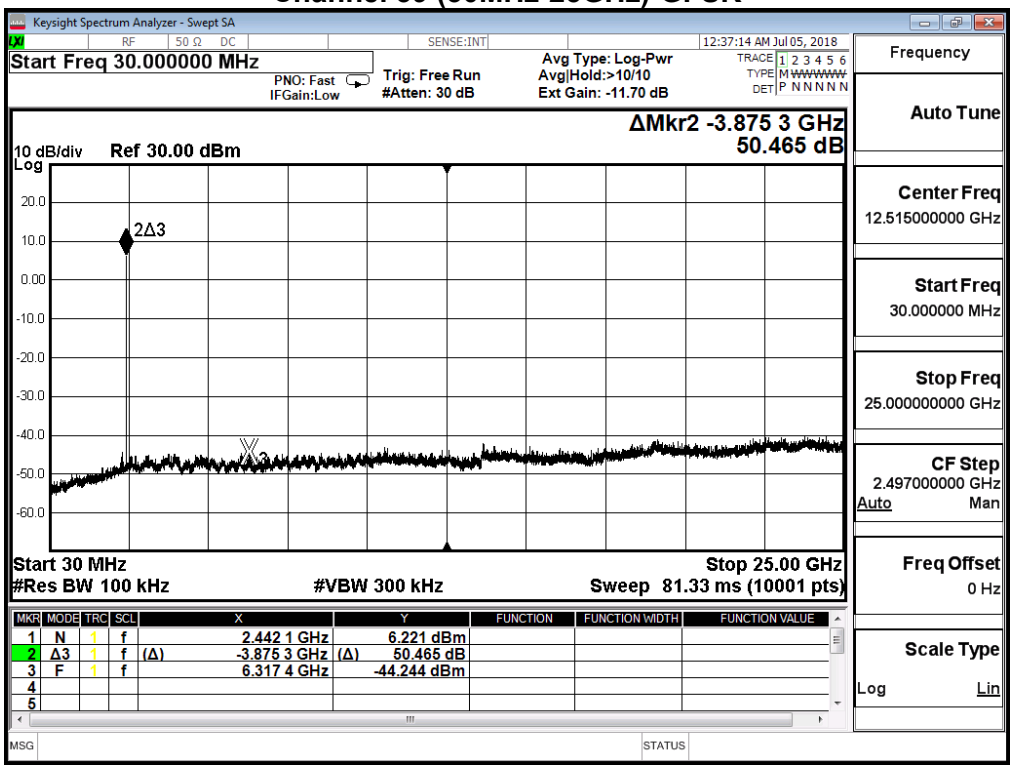


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/05	Test Site	SR10-H

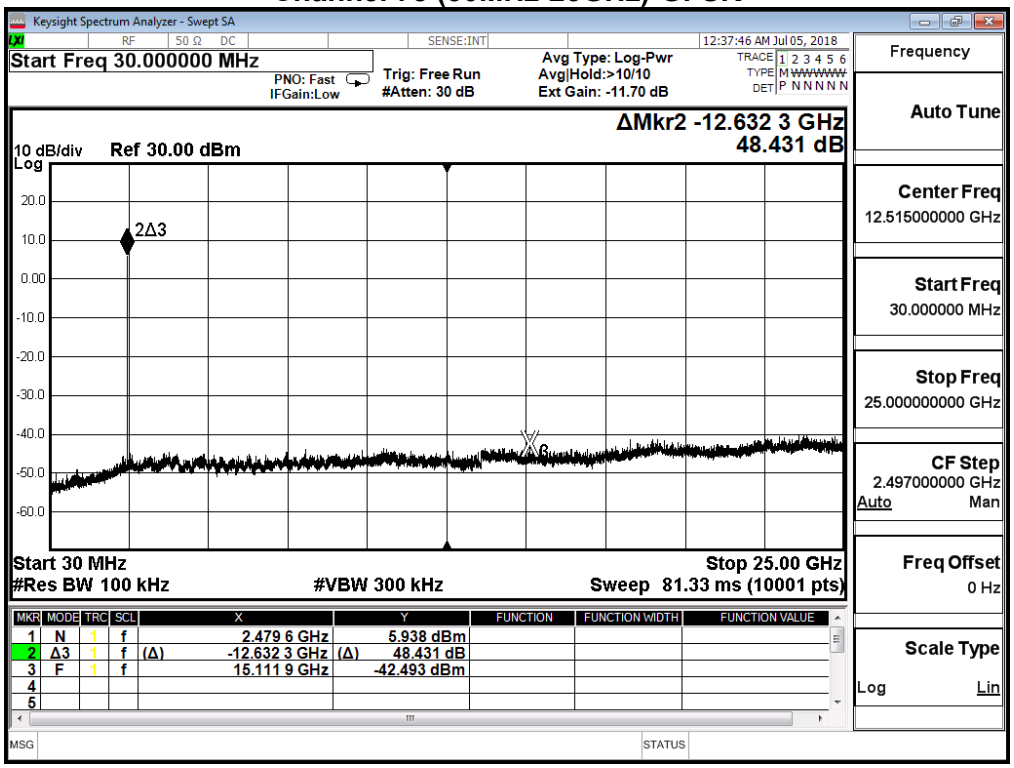
Channel 00 (30MHz-25GHz)-GFSK



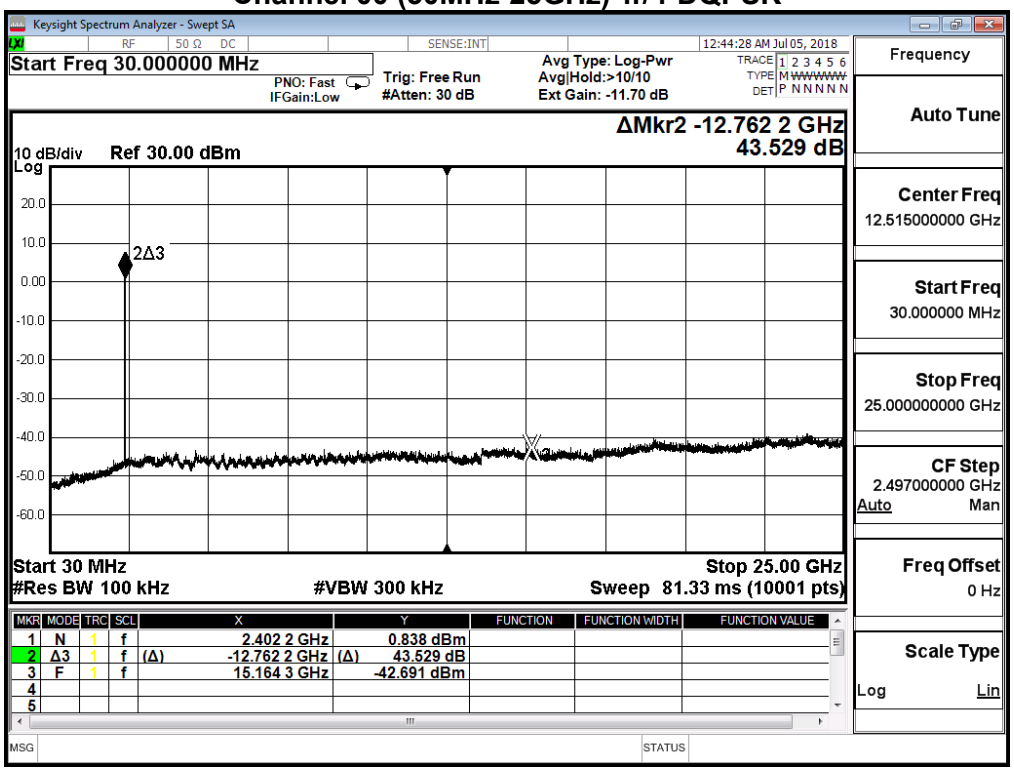
Channel 39 (30MHz-25GHz)-GFSK



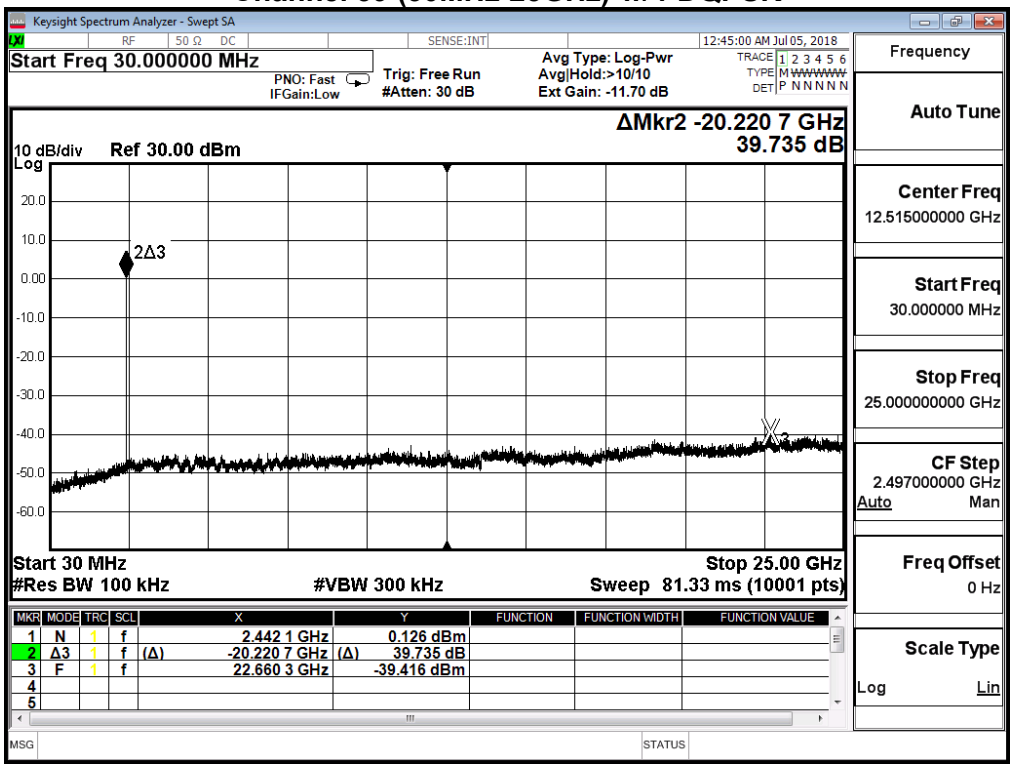
Channel 78 (30MHz-25GHz)-GFSK



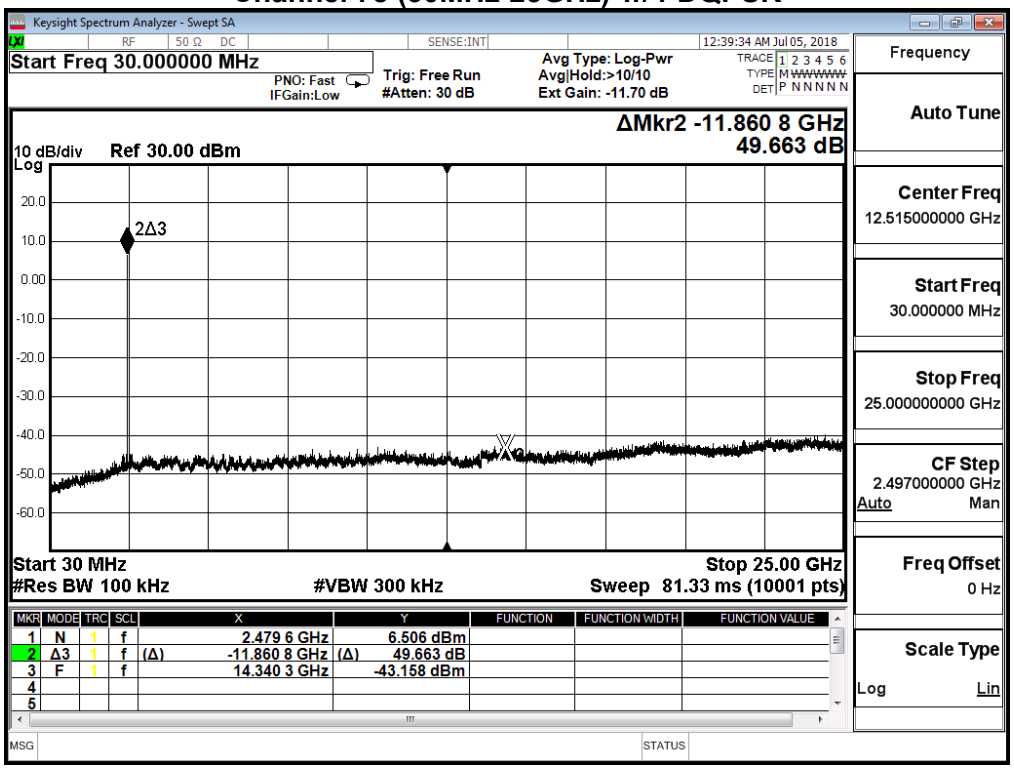
Channel 00 (30MHz-25GHz)-π/4-DQPSK



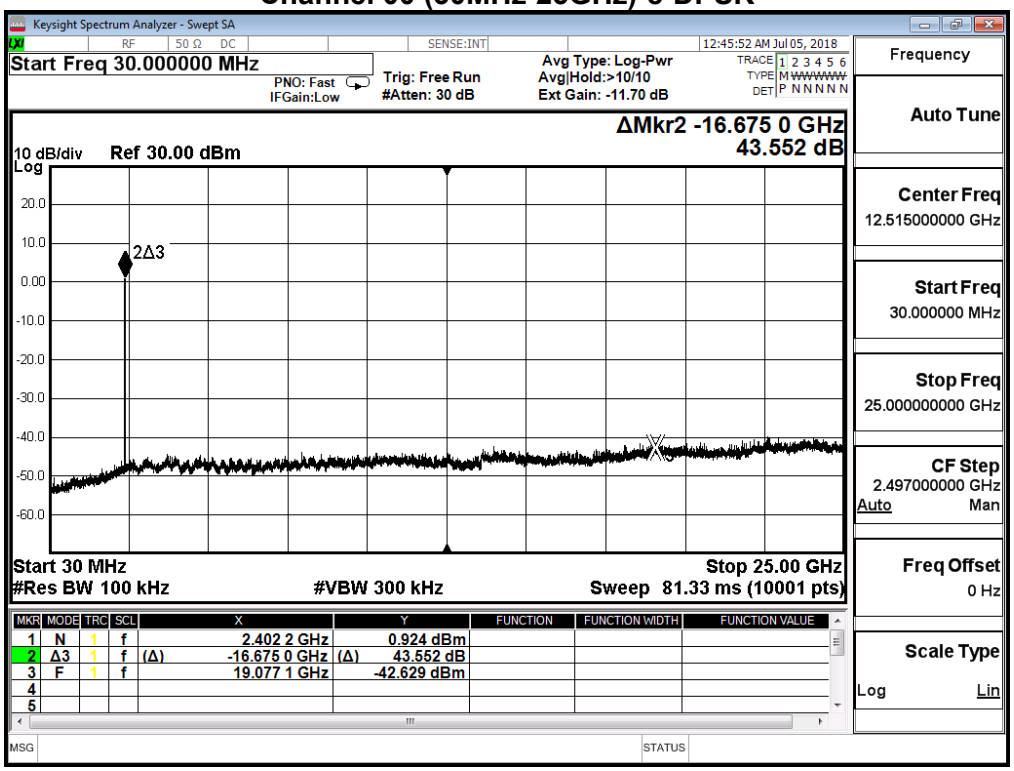
Channel 39 (30MHz-25GHz)-π/4-DQPSK



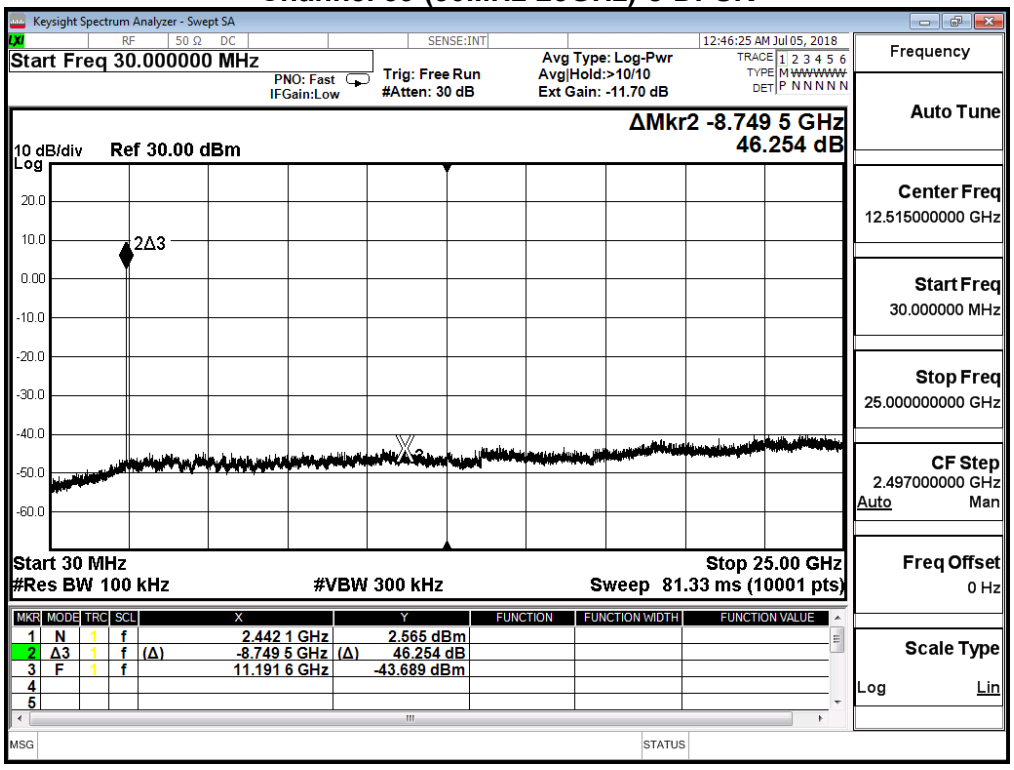
Channel 78 (30MHz-25GHz)-π/4-DQPSK



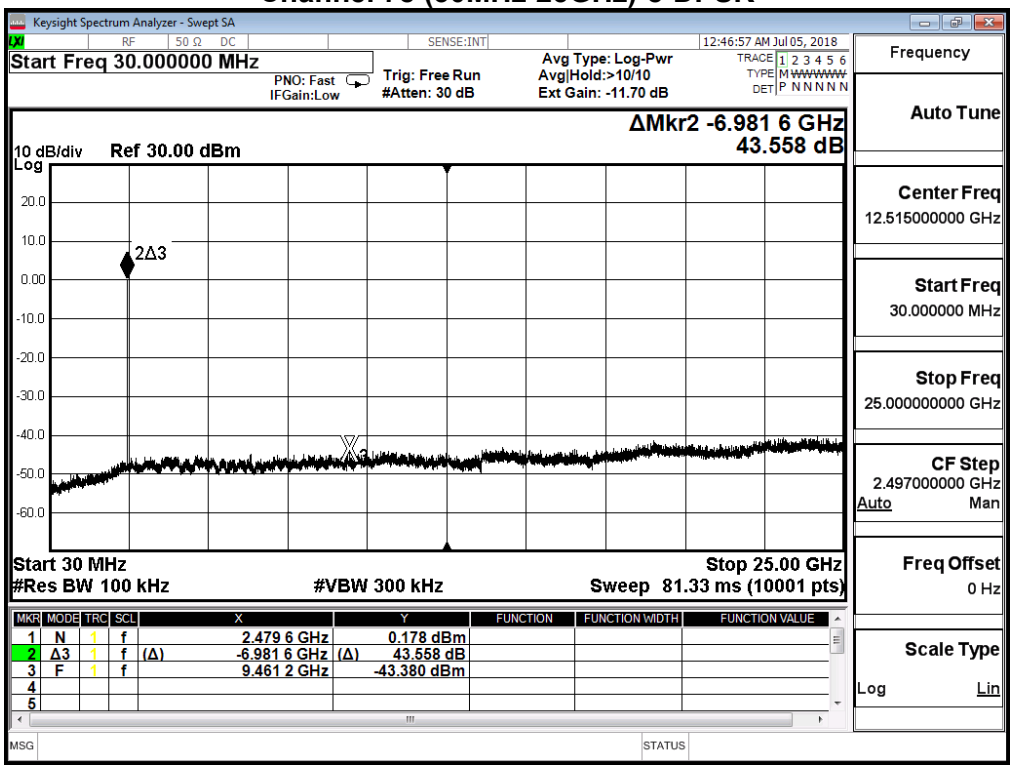
Channel 00 (30MHz-25GHz)-8-DPSK



Channel 39 (30MHz-25GHz)-8-DPSK



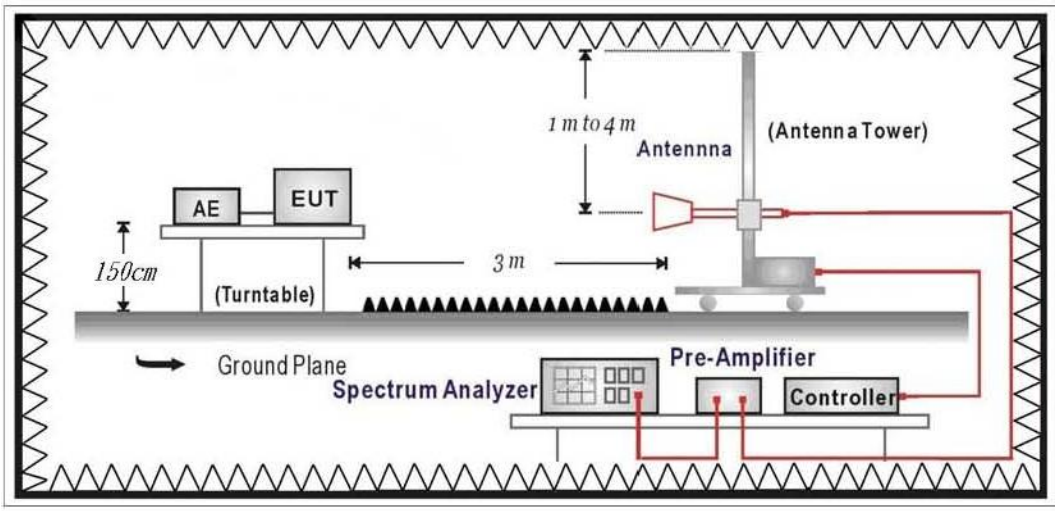
Channel 78 (30MHz-25GHz)-8-DPSK



6. Band Edge

6.1. Test Setup

RF Radiated Measurement:



6.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

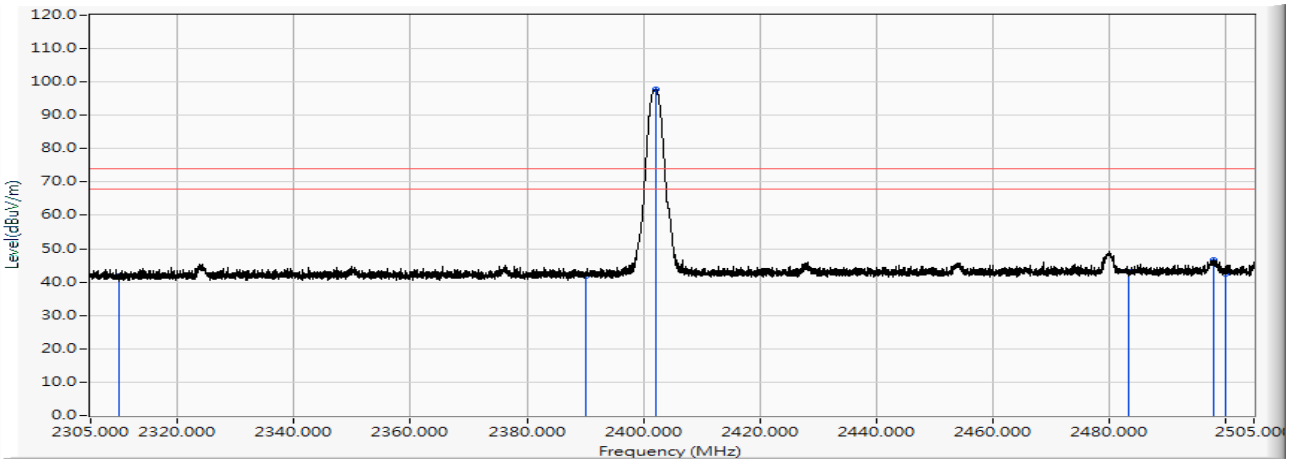
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

6.5. Test Result

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2402MHz

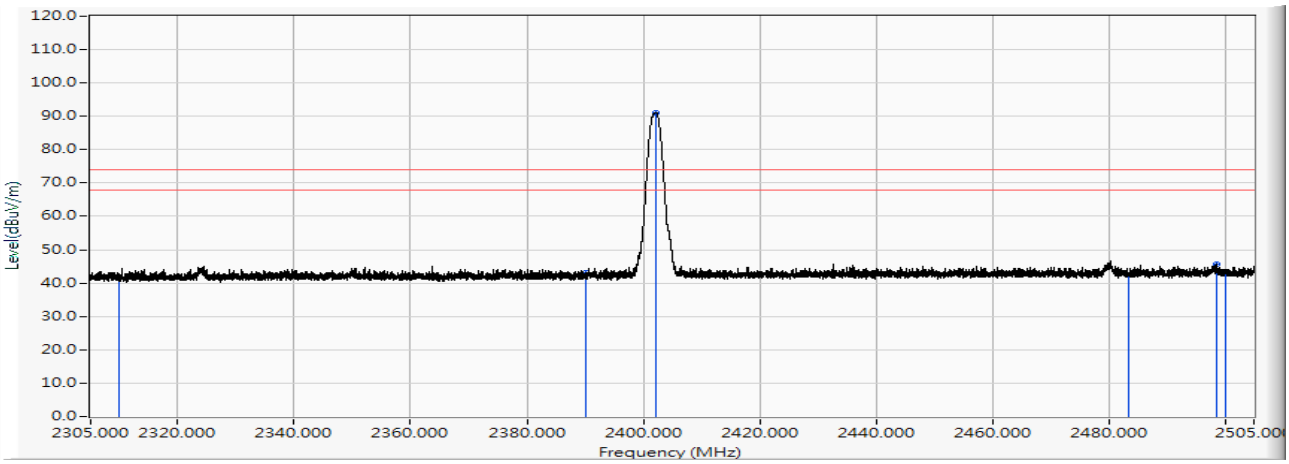


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	29.450	41.834	-32.166	74.000	PEAK
2		2390.000	12.911	29.064	41.975	-32.025	74.000	PEAK
3	*	2402.200	12.992	84.763	97.755	23.755	74.000	PEAK
4		2483.500	13.527	29.543	43.070	-30.930	74.000	PEAK
5		2498.100	13.620	32.916	46.536	-27.464	74.000	PEAK
6		2500.000	13.629	28.960	42.589	-31.411	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2402MHz

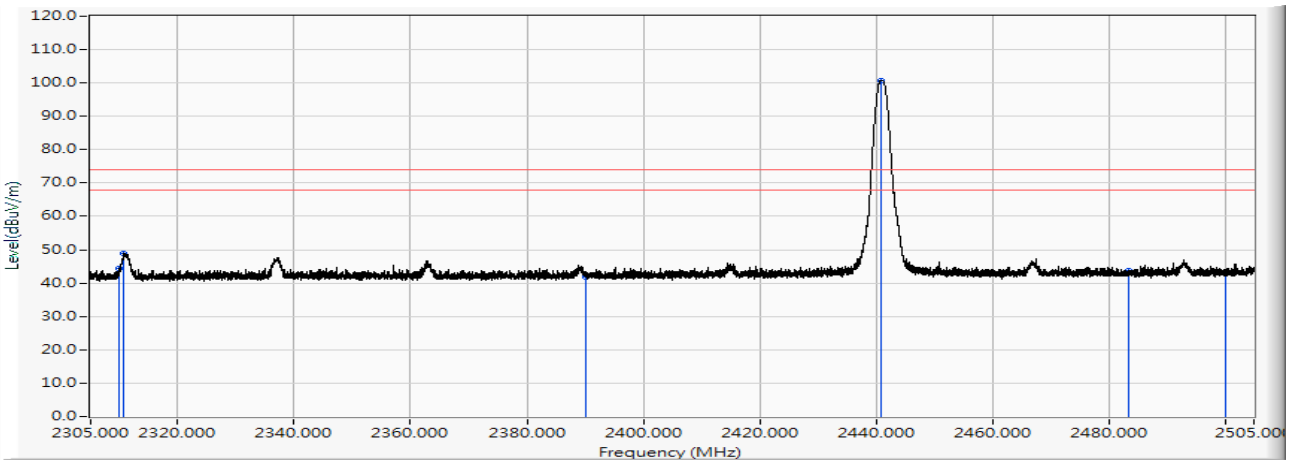


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	29.585	41.969	-32.031	74.000	PEAK
2		2390.000	12.911	30.121	43.032	-30.968	74.000	PEAK
3	*	2402.200	12.992	78.136	91.128	17.128	74.000	PEAK
4		2483.500	13.527	28.979	42.506	-31.494	74.000	PEAK
5		2498.680	13.623	31.942	45.565	-28.435	74.000	PEAK
6		2500.000	13.629	29.355	42.984	-31.016	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

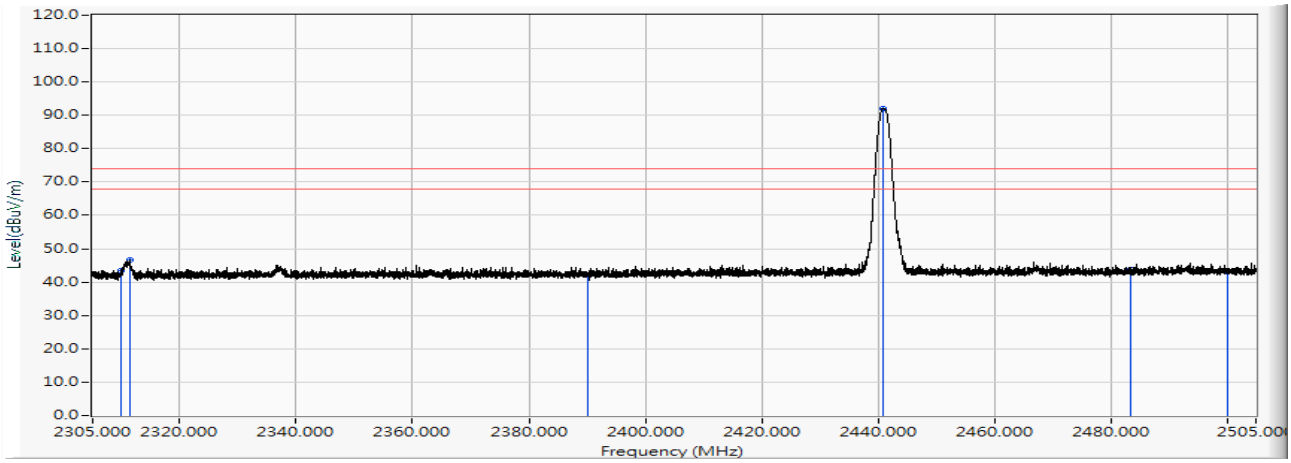


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	32.071	44.455	-29.545	74.000	PEAK
2		2310.720	12.389	36.483	48.872	-25.128	74.000	PEAK
3		2390.000	12.911	28.992	41.903	-32.097	74.000	PEAK
4	*	2440.860	13.247	87.601	100.847	26.847	74.000	PEAK
5		2483.500	13.527	30.328	43.855	-30.145	74.000	PEAK
6		2500.000	13.629	29.926	43.555	-30.445	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2441MHz

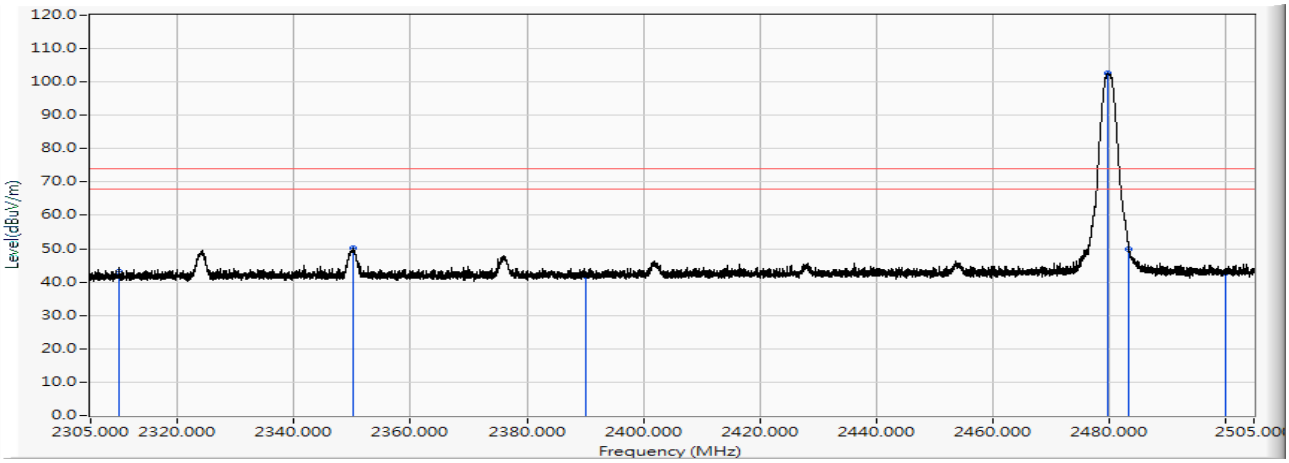


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	30.904	43.288	-30.712	74.000	PEAK
2		2311.440	12.394	34.102	46.496	-27.504	74.000	PEAK
3		2390.000	12.911	29.089	42.000	-32.000	74.000	PEAK
4	*	2440.840	13.246	78.831	92.077	18.077	74.000	PEAK
5		2483.500	13.527	30.208	43.735	-30.265	74.000	PEAK
6		2500.000	13.629	29.570	43.199	-30.801	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2480MHz

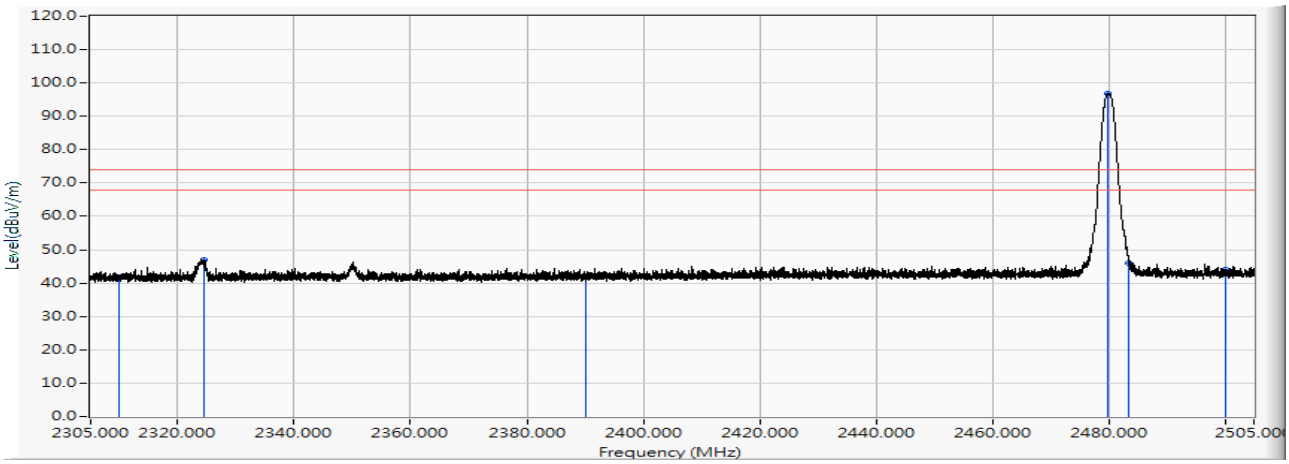


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	30.785	43.169	-30.831	74.000	PEAK
2		2350.120	12.648	37.458	50.106	-23.894	74.000	PEAK
3		2390.000	12.911	28.966	41.877	-32.123	74.000	PEAK
4	*	2479.820	13.503	89.065	102.568	28.568	74.000	PEAK
5		2483.500	13.527	36.182	49.709	-24.291	74.000	PEAK
6		2500.000	13.629	29.301	42.930	-31.070	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_DH5_2480MHz

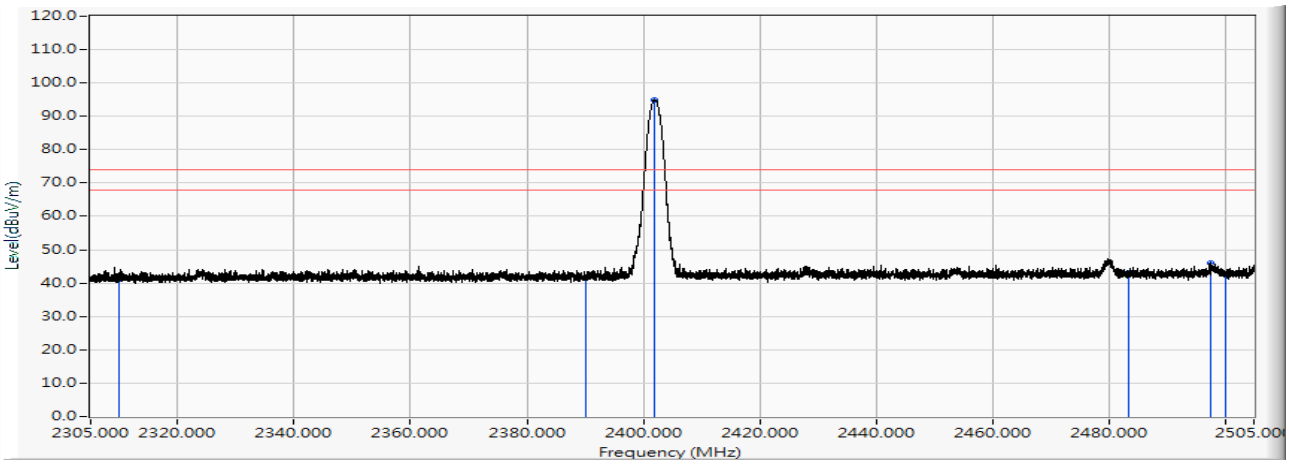


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	29.469	41.853	-32.147	74.000	PEAK
2		2324.400	12.479	34.520	46.999	-27.001	74.000	PEAK
3		2390.000	12.911	29.078	41.989	-32.011	74.000	PEAK
4	*	2479.840	13.503	83.244	96.747	22.747	74.000	PEAK
5		2483.500	13.527	32.481	46.008	-27.992	74.000	PEAK
6		2500.000	13.629	30.444	44.073	-29.927	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2402MHz

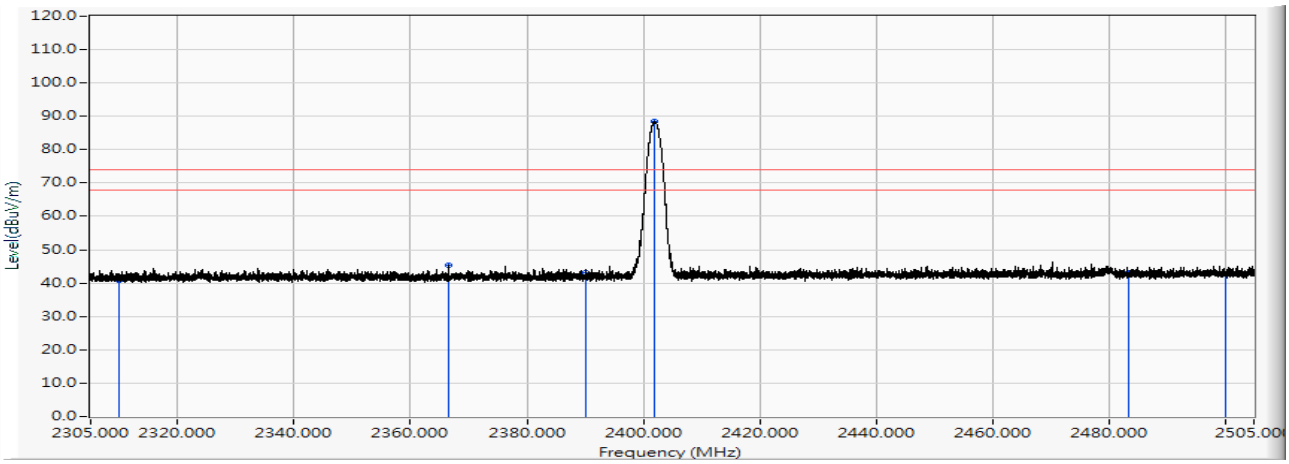


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	28.842	41.226	-32.774	74.000	PEAK
2		2390.000	12.911	28.641	41.552	-32.448	74.000	PEAK
3	*	2401.840	12.989	82.033	95.022	21.022	74.000	PEAK
4		2483.500	13.527	29.467	42.994	-31.006	74.000	PEAK
5		2497.500	13.616	32.290	45.907	-28.093	74.000	PEAK
6		2500.000	13.629	29.102	42.731	-31.269	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2402MHz

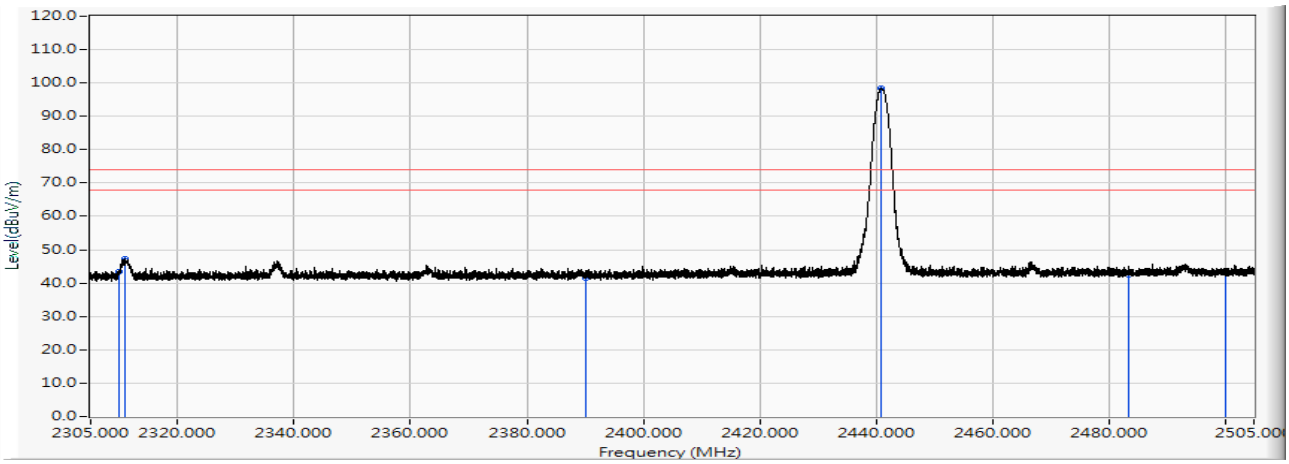


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	28.406	40.790	-33.210	74.000	PEAK
2		2366.640	12.757	32.747	45.504	-28.496	74.000	PEAK
3		2390.000	12.911	30.080	42.991	-31.009	74.000	PEAK
4	*	2401.840	12.989	75.354	88.343	14.343	74.000	PEAK
5		2483.500	13.527	29.489	43.016	-30.984	74.000	PEAK
6		2500.000	13.629	29.066	42.695	-31.305	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

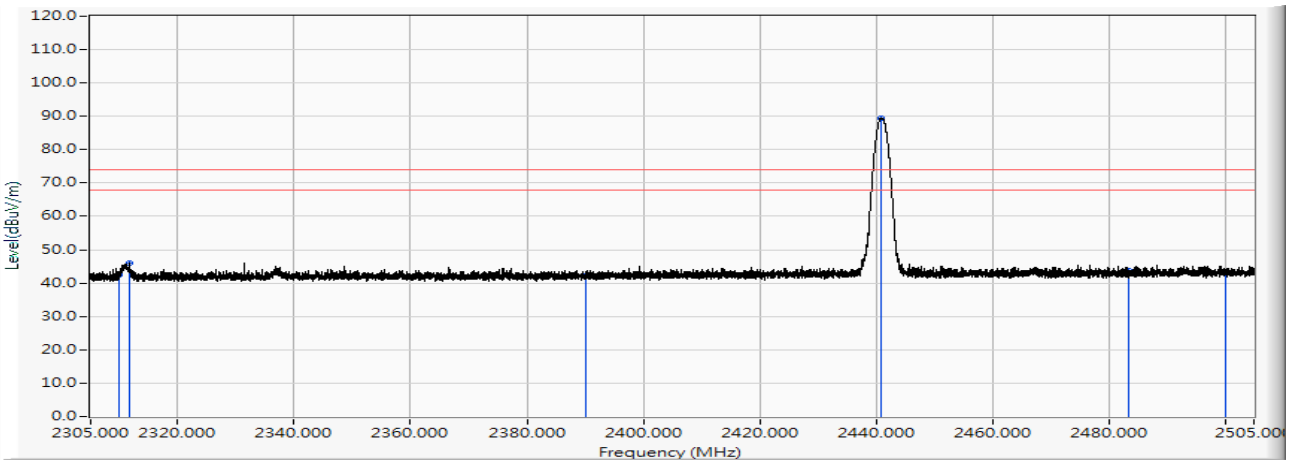


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	30.936	43.320	-30.680	74.000	PEAK
2		2310.960	12.390	34.949	47.340	-26.660	74.000	PEAK
3		2390.000	12.911	28.671	41.582	-32.418	74.000	PEAK
4	*	2440.880	13.247	85.143	98.389	24.389	74.000	PEAK
5		2483.500	13.527	28.934	42.461	-31.539	74.000	PEAK
6		2500.000	13.629	29.405	43.034	-30.966	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2441MHz

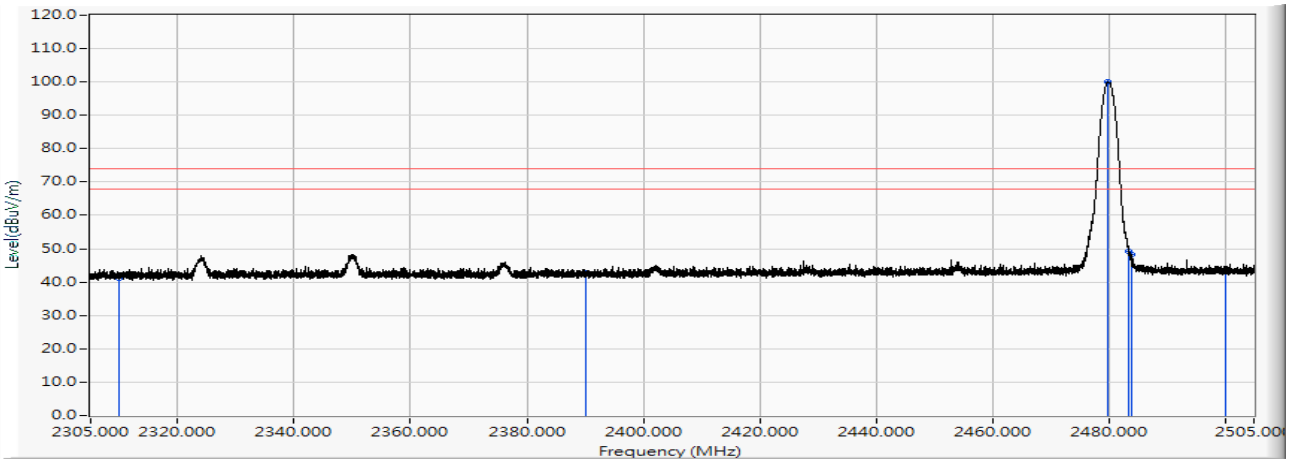


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	30.017	42.401	-31.599	74.000	PEAK
2		2311.600	12.395	33.644	46.039	-27.961	74.000	PEAK
3		2390.000	12.911	29.296	42.207	-31.793	74.000	PEAK
4	*	2440.860	13.247	76.287	89.533	15.533	74.000	PEAK
5		2483.500	13.527	30.074	43.601	-30.399	74.000	PEAK
6		2500.000	13.629	29.151	42.780	-31.220	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2480MHz

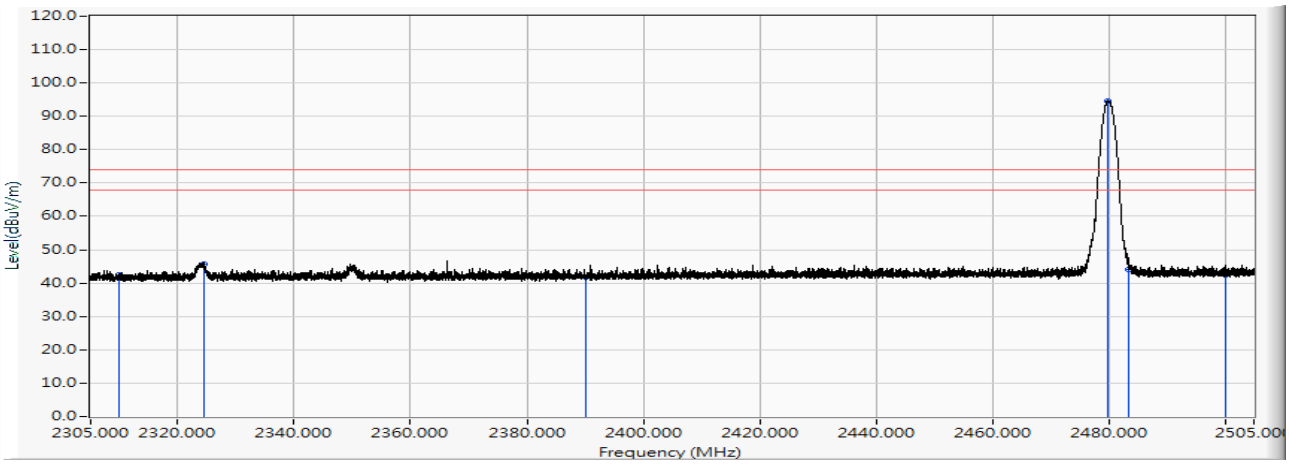


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	28.845	41.229	-32.771	74.000	PEAK
2		2390.000	12.911	29.780	42.691	-31.309	74.000	PEAK
3	*	2479.840	13.503	86.519	100.022	26.022	74.000	PEAK
4		2483.500	13.527	35.538	49.065	-24.935	74.000	PEAK
5		2483.900	13.530	34.833	48.363	-25.637	74.000	PEAK
6		2500.000	13.629	29.556	43.185	-30.815	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_2DH5_2480MHz

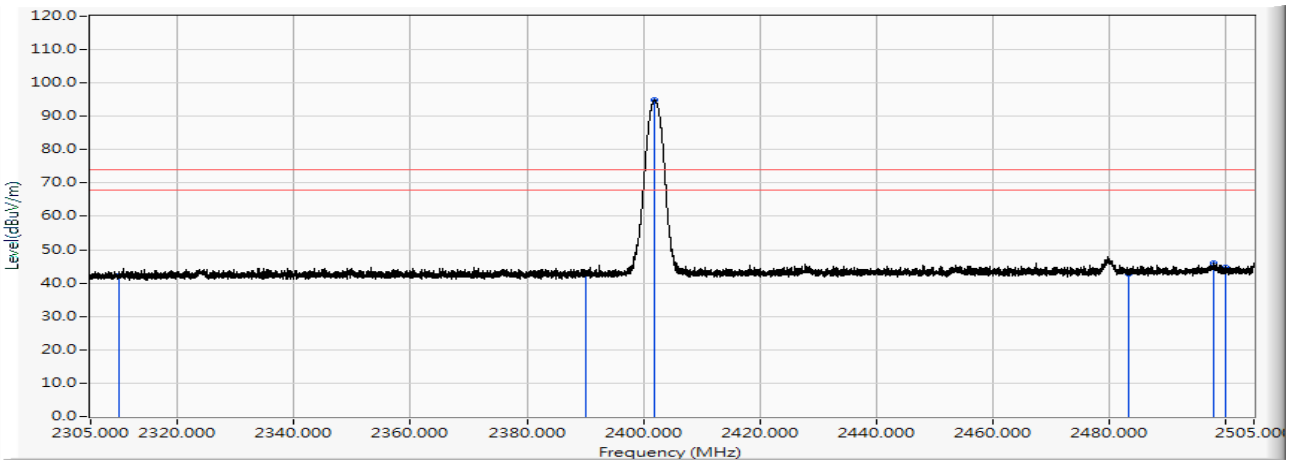


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	29.962	42.346	-31.654	74.000	PEAK
2		2324.380	12.479	33.326	45.805	-28.195	74.000	PEAK
3		2390.000	12.911	28.960	41.871	-32.129	74.000	PEAK
4	*	2479.880	13.504	81.097	94.600	20.600	74.000	PEAK
5		2483.500	13.527	30.629	44.156	-29.844	74.000	PEAK
6		2500.000	13.629	28.784	42.413	-31.587	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2402MHz

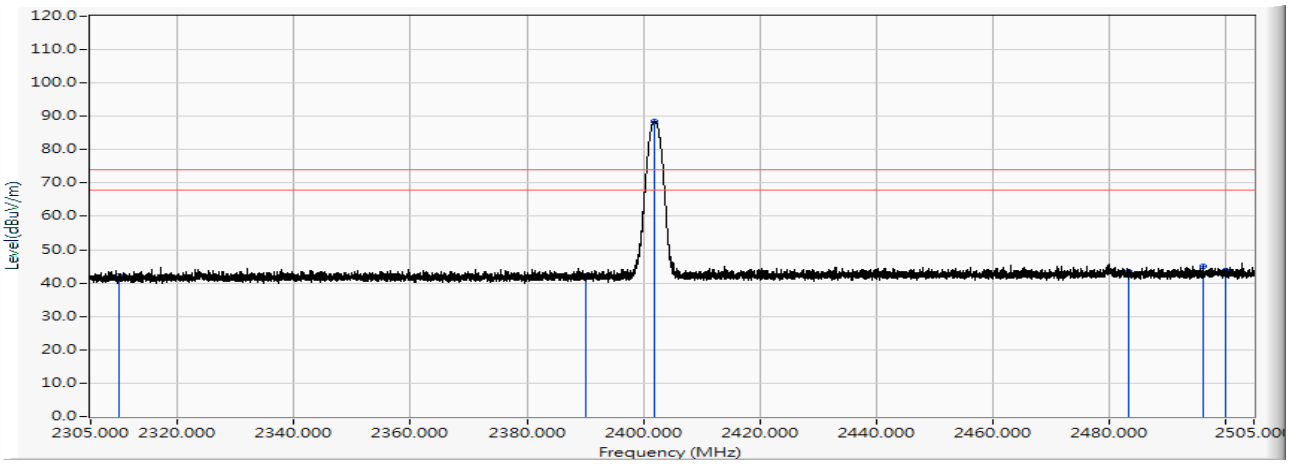


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	29.742	42.126	-31.874	74.000	PEAK
2		2390.000	12.911	30.039	42.950	-31.050	74.000	PEAK
3	*	2402.000	12.991	81.808	94.798	20.798	74.000	PEAK
4		2483.500	13.527	29.229	42.756	-31.244	74.000	PEAK
5		2498.200	13.621	32.486	46.106	-27.894	74.000	PEAK
6		2500.000	13.629	31.105	44.734	-29.266	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2402MHz

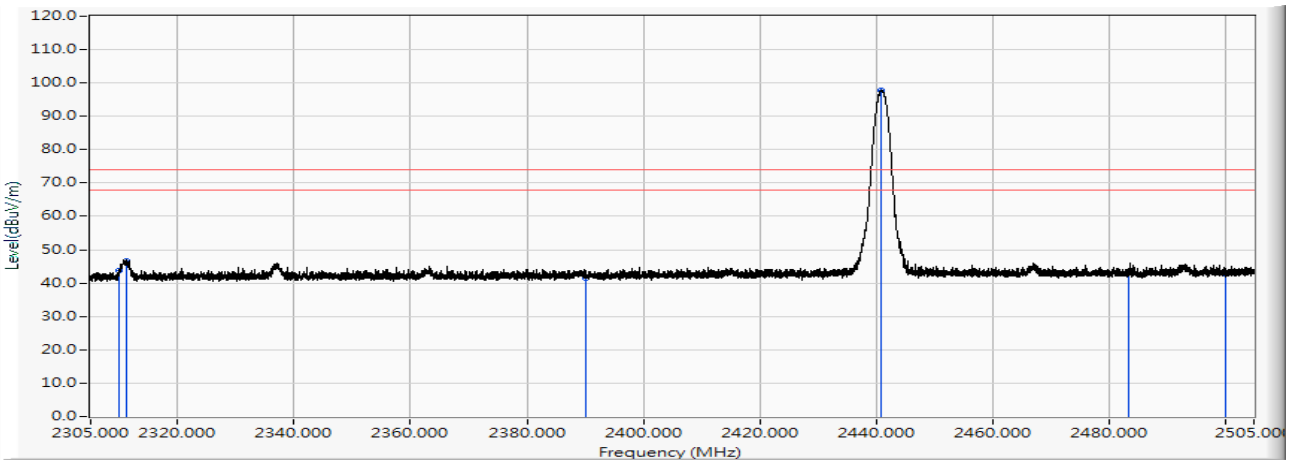


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	29.773	42.157	-31.843	74.000	PEAK
2		2390.000	12.911	28.892	41.803	-32.197	74.000	PEAK
3	*	2401.920	12.989	75.551	88.541	14.541	74.000	PEAK
4		2483.500	13.527	29.846	43.373	-30.627	74.000	PEAK
5		2496.380	13.611	31.298	44.909	-29.091	74.000	PEAK
6		2500.000	13.629	30.266	43.895	-30.105	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

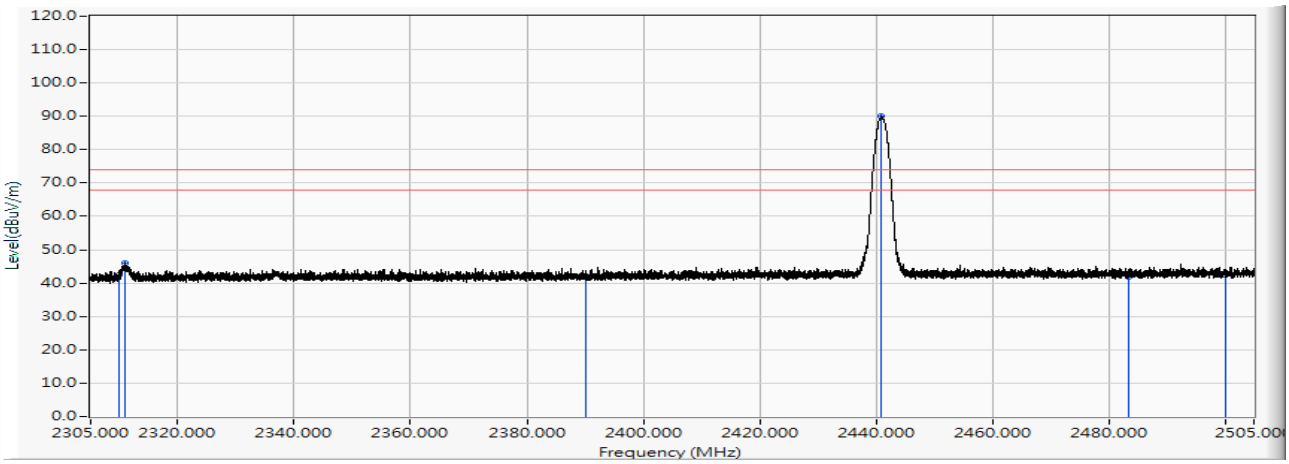


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	31.468	43.852	-30.148	74.000	PEAK
2		2311.060	12.392	34.396	46.787	-27.213	74.000	PEAK
3		2390.000	12.911	28.707	41.618	-32.382	74.000	PEAK
4	*	2440.980	13.248	84.621	97.868	23.868	74.000	PEAK
5		2483.500	13.527	29.749	43.276	-30.724	74.000	PEAK
6		2500.000	13.629	29.204	42.833	-31.167	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2441MHz

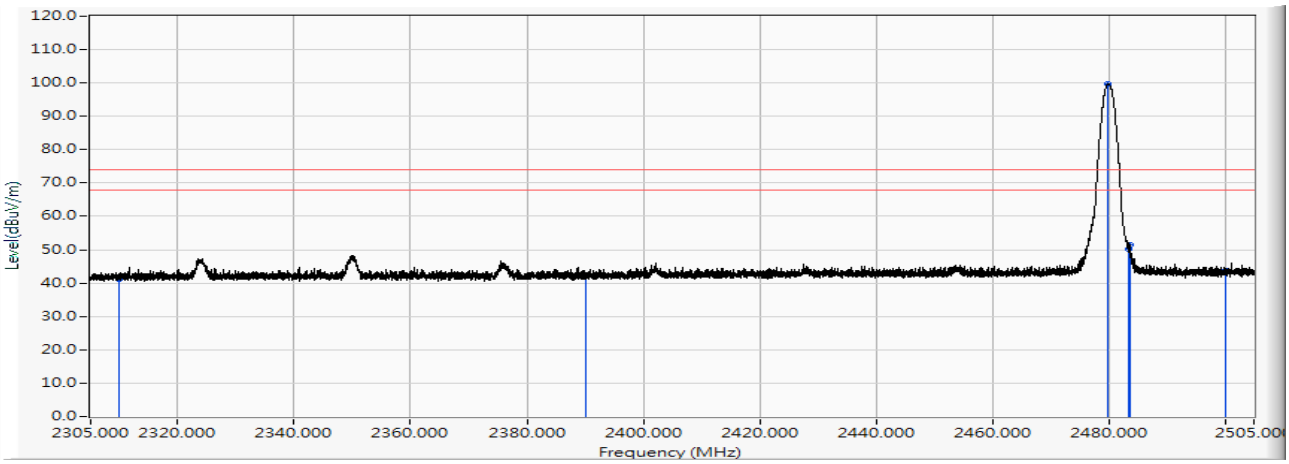


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	30.134	42.518	-31.482	74.000	PEAK
2		2310.780	12.389	33.601	45.990	-28.010	74.000	PEAK
3		2390.000	12.911	29.186	42.097	-31.903	74.000	PEAK
4	*	2441.000	13.248	76.681	89.928	15.928	74.000	PEAK
5		2483.500	13.527	28.263	41.790	-32.210	74.000	PEAK
6		2500.000	13.629	28.958	42.587	-31.413	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2480MHz

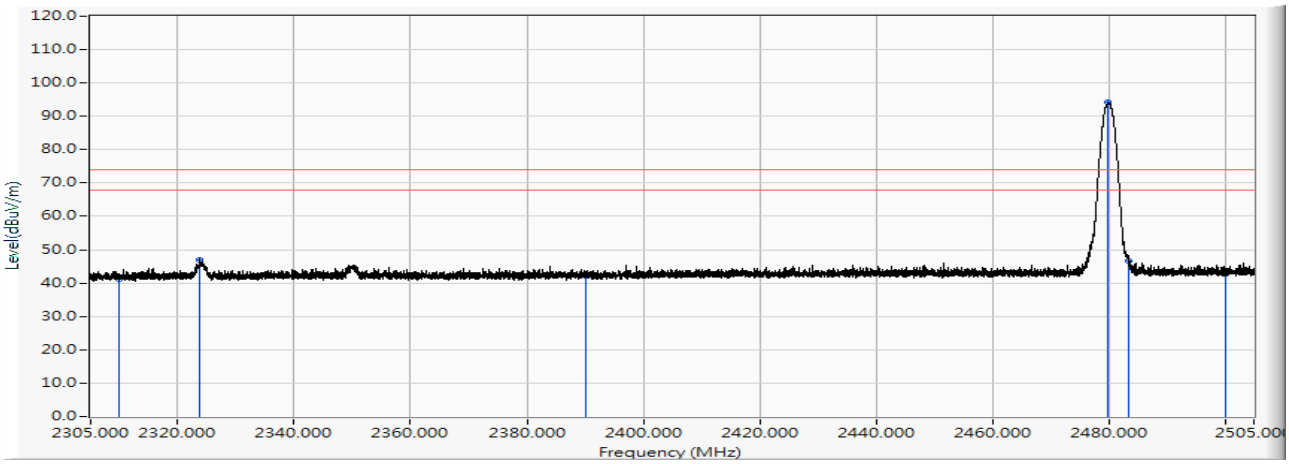


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	28.705	41.089	-32.911	74.000	PEAK
2		2390.000	12.911	29.265	42.176	-31.824	74.000	PEAK
3	*	2479.980	13.504	86.363	99.867	25.867	74.000	PEAK
4		2483.500	13.527	36.763	50.290	-23.710	74.000	PEAK
5		2483.660	13.529	37.830	51.358	-22.642	74.000	PEAK
6		2500.000	13.629	29.974	43.603	-30.397	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_ADP_45BW B 802.15.1_3DH5_2480MHz

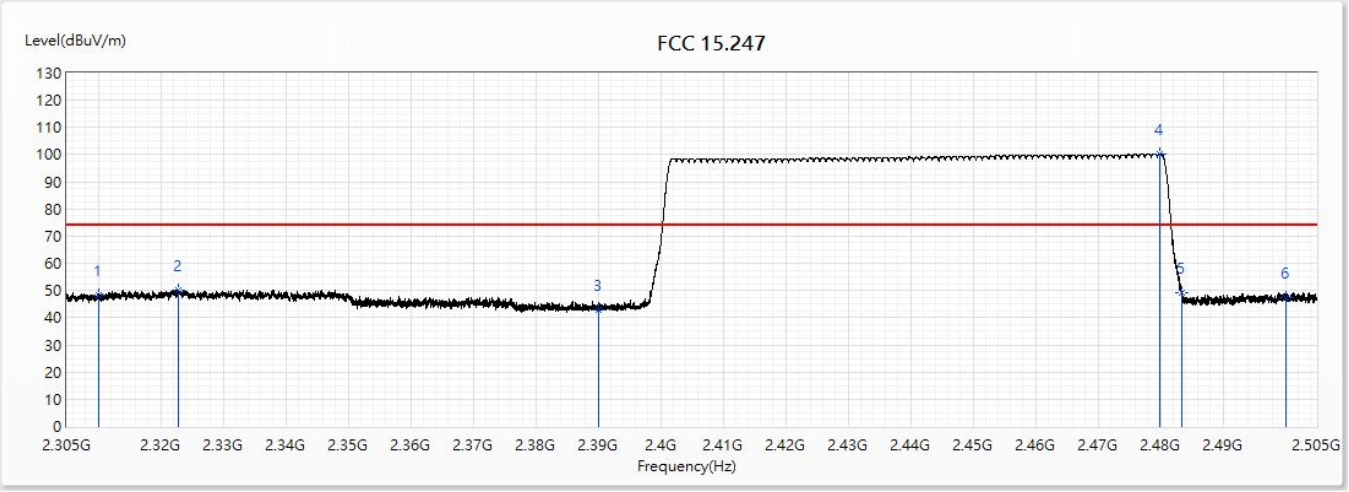


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	12.384	28.707	41.091	-32.909	74.000	PEAK
2		2323.680	12.475	34.498	46.972	-27.028	74.000	PEAK
3		2390.000	12.911	29.362	42.273	-31.727	74.000	PEAK
4	*	2479.980	13.504	80.598	94.102	20.102	74.000	PEAK
5		2483.500	13.527	33.141	46.668	-27.332	74.000	PEAK
6		2500.000	13.629	29.242	42.871	-31.129	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site：	CB2-H	Engineer：	Elwin
Model No：	Lyra Voice	Test Date：	2018/11/2
Test Voltage：	AC 120V / 60Hz	Polarity：	Horizontal
Test Mode：	Mode 1: Transmit_ADP_45BW B		
Note：	802.15.1_DH5_Hopping		

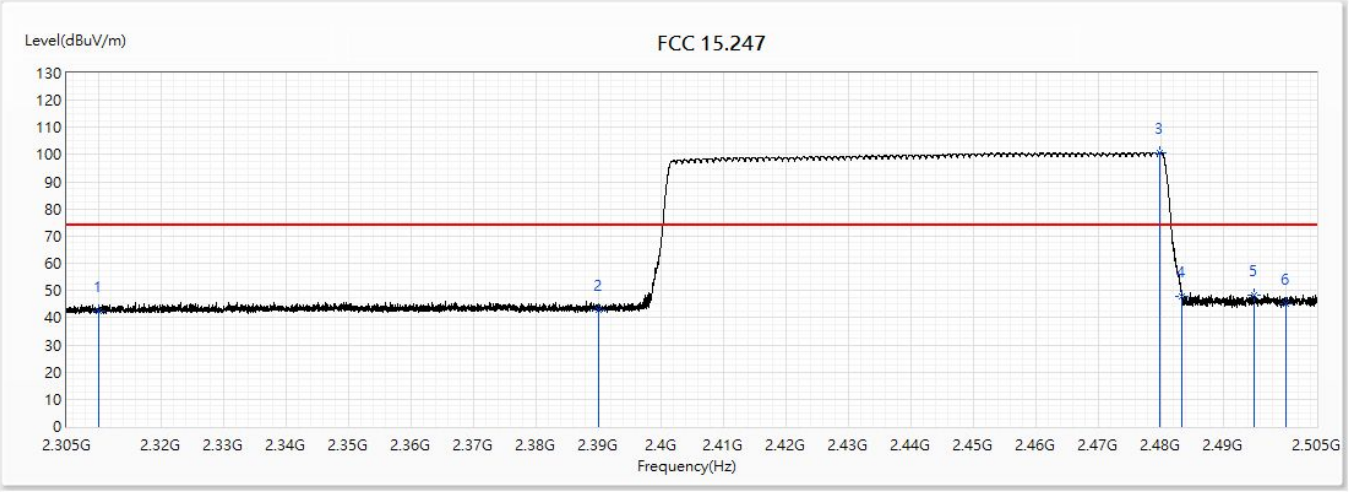


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	48.47	74.00	-25.53	36.10	12.37	PK
2	2322.84	50.11	74.00	-23.89	37.66	12.45	PK
3	2390	42.95	74.00	-31.05	30.06	12.89	PK
! 4	2479.84	100.43	74.00	26.43	86.96	13.47	PK
5	2483.5	49.00	74.00	-25.00	35.50	13.50	PK
6	2500	47.53	74.00	-26.47	33.93	13.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “!”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site：	CB2-H	Engineer：	Elwin
Model No：	Lyra Voice	Test Date：	2018/11/3
Test Voltage：	AC 120V / 60Hz	Polarity：	Vertical
Test Mode：	Mode 1: Transmit_ADP_45BW B		
Note：	802.15.1_DH5_Hopping		

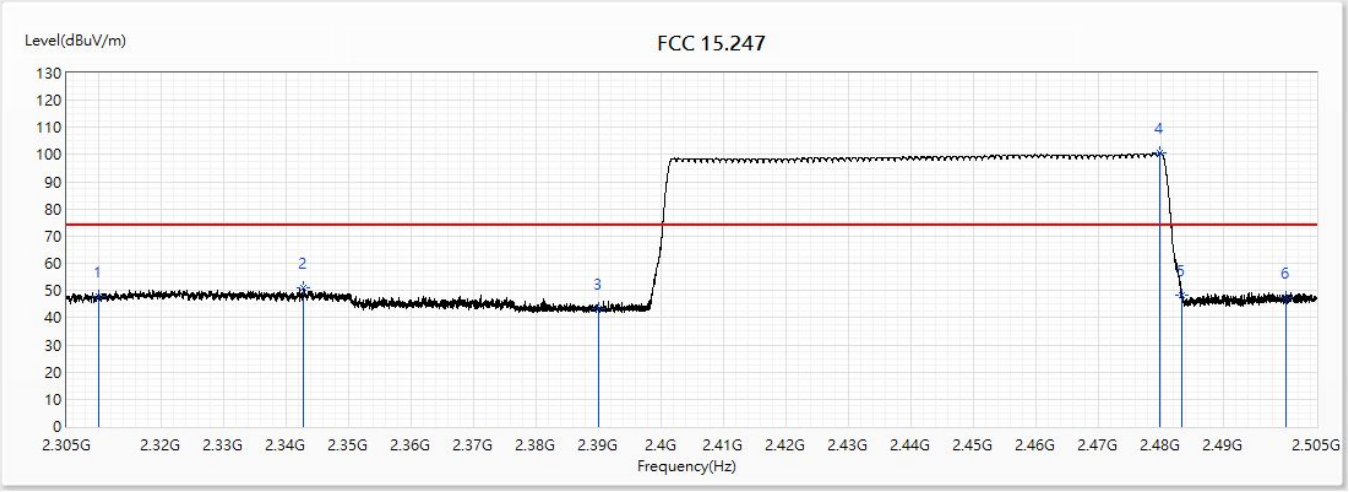


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	42.32	74.00	-31.68	29.95	12.37	PK
2	2390	43.04	74.00	-30.96	30.15	12.89	PK
! 3	2479.9	100.69	74.00	26.69	87.22	13.47	PK
4	2483.5	47.63	74.00	-26.37	34.13	13.50	PK
5	2495	48.42	74.00	-25.58	34.86	13.56	PK
6	2500	45.23	74.00	-28.77	31.63	13.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “!”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site：	CB2-H	Engineer：	Elwin
Model No：	Lyra Voice	Test Date：	2018/11/2
Test Voltage：	AC 120V / 60Hz	Polarity：	Horizontal
Test Mode：	Mode 1: Transmit_ADP_45BW B		
Note：	802.15.1_2DH5_ Hopping		

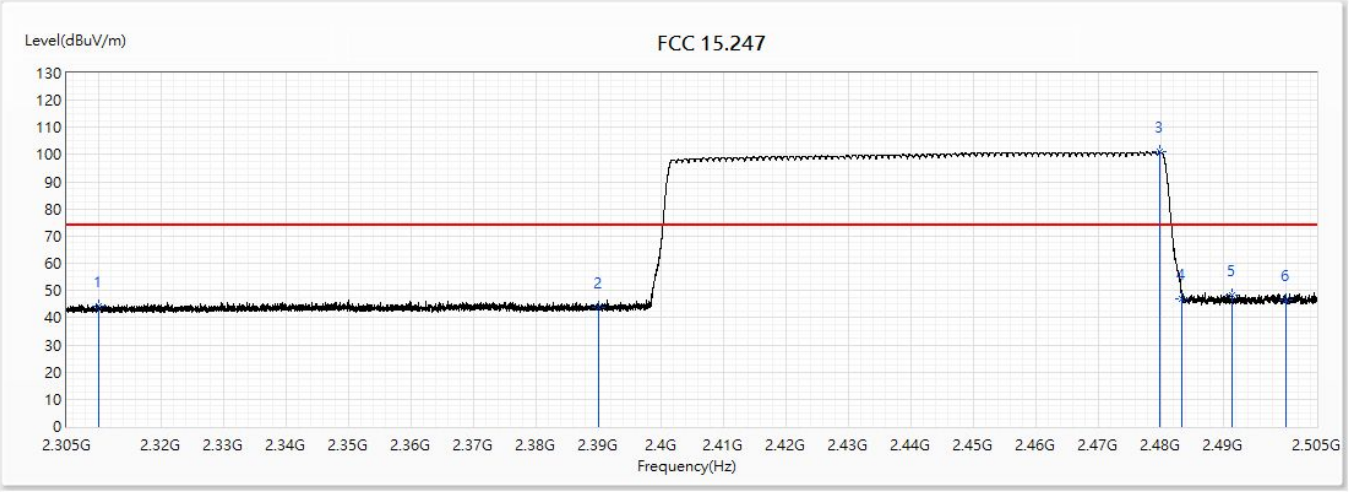


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	47.75	74.00	-26.25	35.38	12.37	PK
2	2342.84	50.80	74.00	-23.20	38.22	12.58	PK
3	2390	43.20	74.00	-30.80	30.31	12.89	PK
! 4	2479.86	100.52	74.00	26.52	87.05	13.47	PK
5	2483.5	48.38	74.00	-25.62	34.88	13.50	PK
6	2500	47.38	74.00	-26.62	33.78	13.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “!”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site：	CB2-H	Engineer：	Elwin
Model No：	Lyra Voice	Test Date：	2018/11/3
Test Voltage：	AC 120V / 60Hz	Polarity：	Vertical
Test Mode：	Mode 1: Transmit_ADP_45BW B		
Note：	802.15.1_2DH5_ Hopping		

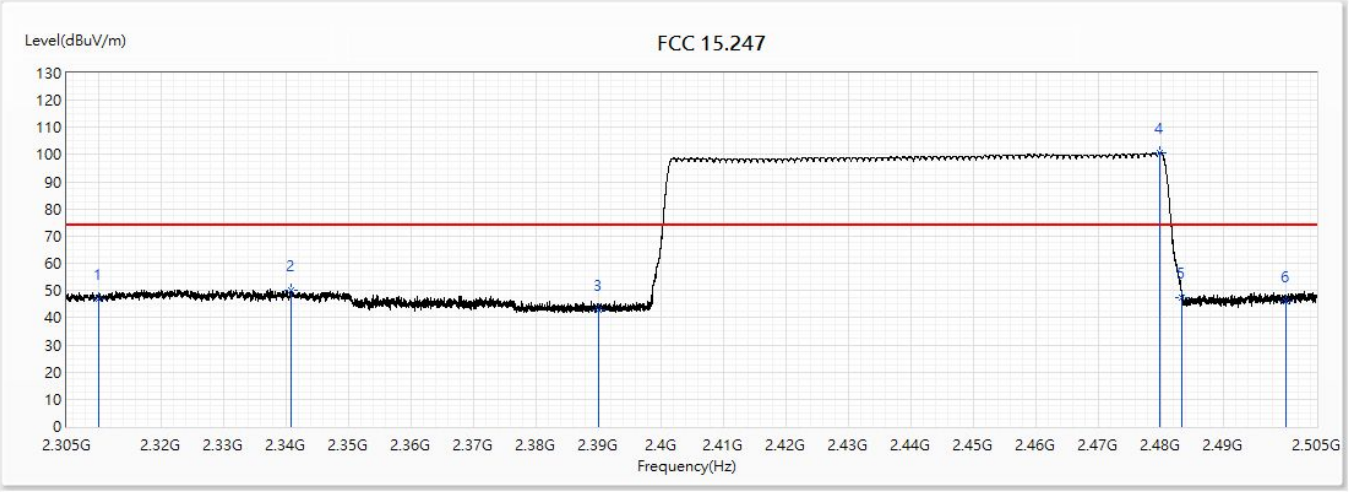


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	44.31	74.00	-29.69	31.94	12.37	PK
2	2390	43.60	74.00	-30.40	30.71	12.89	PK
! 3	2479.84	100.94	74.00	26.94	87.47	13.47	PK
4	2483.5	46.94	74.00	-27.06	33.44	13.50	PK
5	2491.48	48.26	74.00	-25.74	34.72	13.54	PK
6	2500	46.68	74.00	-27.32	33.08	13.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “!”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site：	CB2-H	Engineer：	Elwin
Model No：	Lyra Voice	Test Date：	2018/11/2
Test Voltage：	AC 120V / 60Hz	Polarity：	Horizontal
Test Mode：	Mode 1: Transmit_ADP_45BW B		
Note：	802.15.1_3DH5_ Hopping		

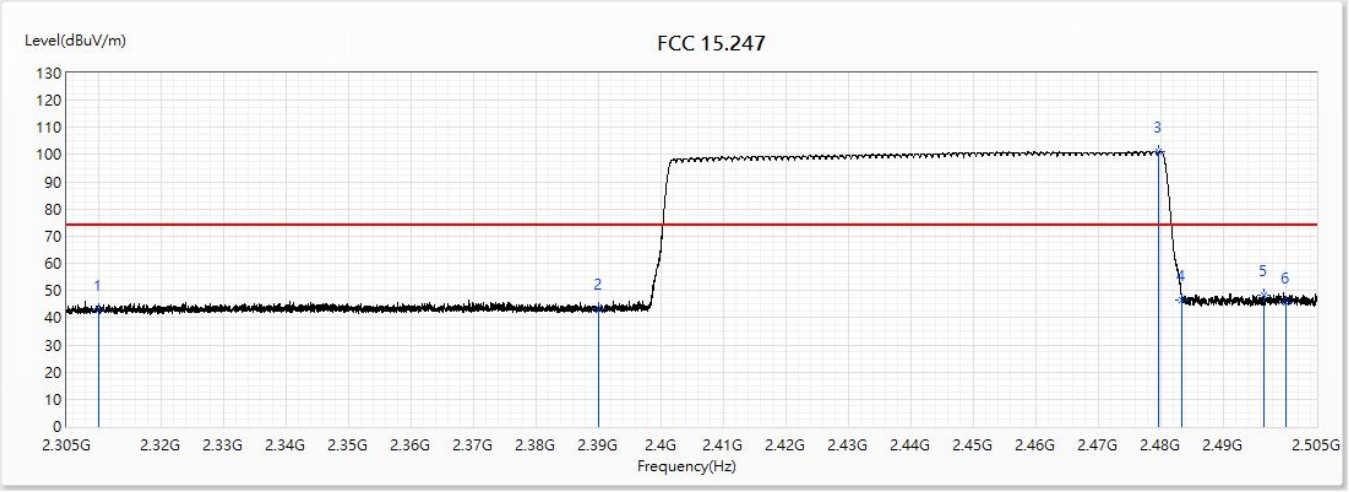


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	46.87	74.00	-27.13	34.50	12.37	PK
2	2340.96	50.05	74.00	-23.95	37.48	12.57	PK
3	2390	42.89	74.00	-31.11	30.00	12.89	PK
! 4	2479.84	100.58	74.00	26.58	87.11	13.47	PK
5	2483.5	47.49	74.00	-26.51	33.99	13.50	PK
6	2500	45.88	74.00	-28.12	32.28	13.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “!”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site：	CB2-H	Engineer：	Elwin
Model No：	Lyra Voice	Test Date：	2018/11/3
Test Voltage：	AC 120V / 60Hz	Polarity：	Vertical
Test Mode：	Mode 1: Transmit_ADP_45BW B		
Note：	802.15.1_3DH5_ Hopping		



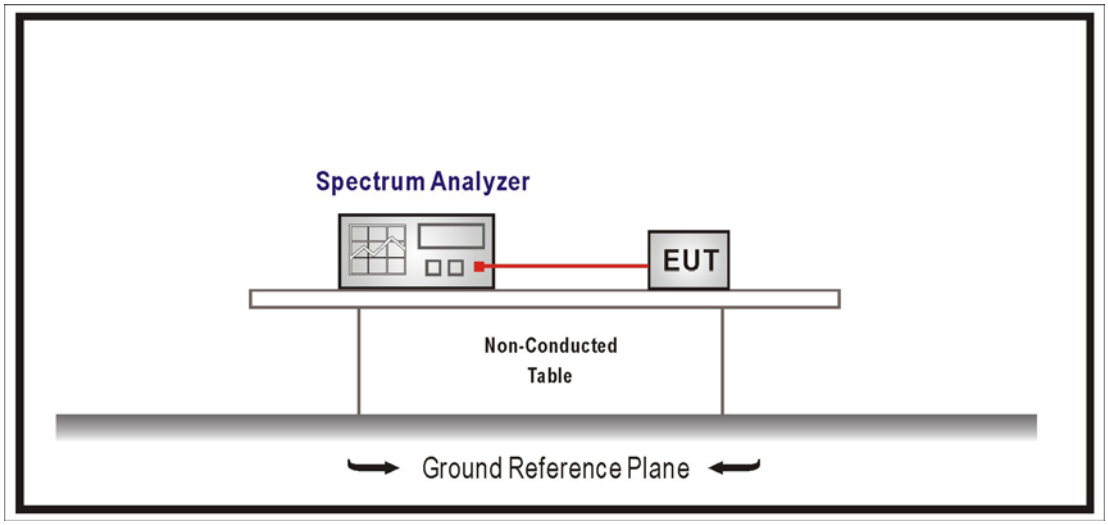
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2310	43.00	74.00	-31.00	30.63	12.37	PK
2	2390	43.39	74.00	-30.61	30.50	12.89	PK
! 3	2479.8	101.07	74.00	27.07	87.60	13.47	PK
4	2483.5	46.67	74.00	-27.33	33.17	13.50	PK
5	2496.64	48.42	74.00	-25.58	34.85	13.57	PK
6	2500	45.72	74.00	-28.28	32.12	13.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “!”, means this data is the worst emission level.
5. Emission Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
7. The fundamental for reference only, it’s not restricted by unwanted emission limit.

7. Number of hopping frequency

7.1. Test Setup



7.2. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements,

7.4. Test Specification

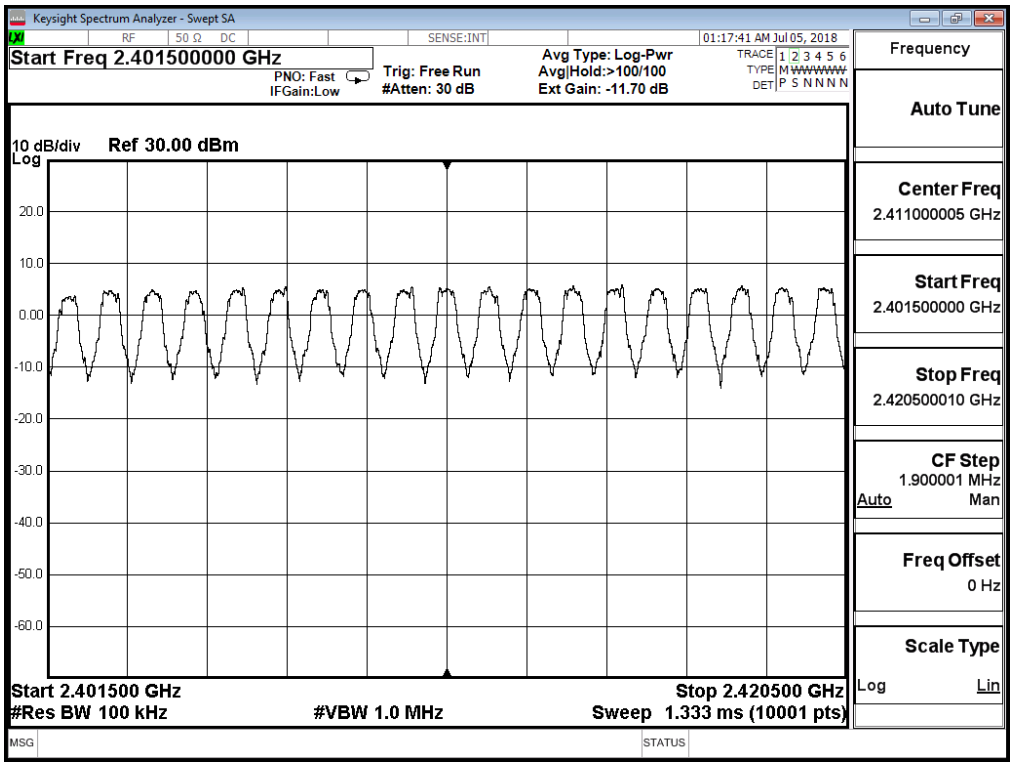
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

7.5. Test Result

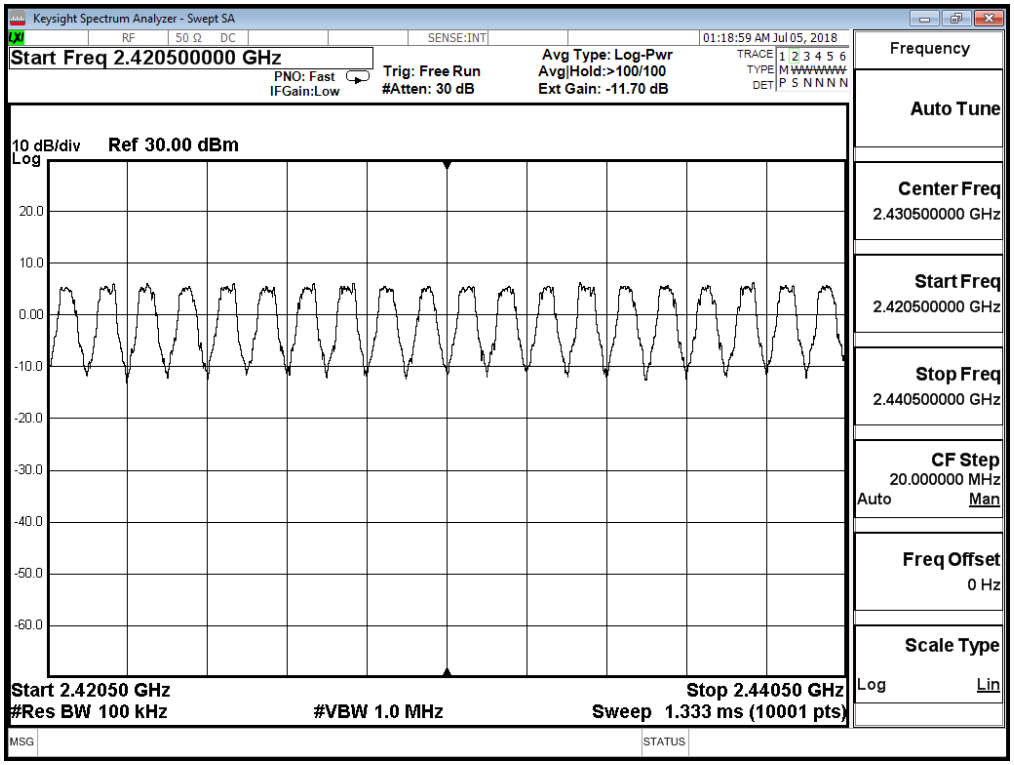
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Number of hopping frequency		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/05	Test Site	SR10-H

Frequency Range (MHz)	Measure Level (Channels)	Limit (Channels)
2402 - 2480	79	≧ 75

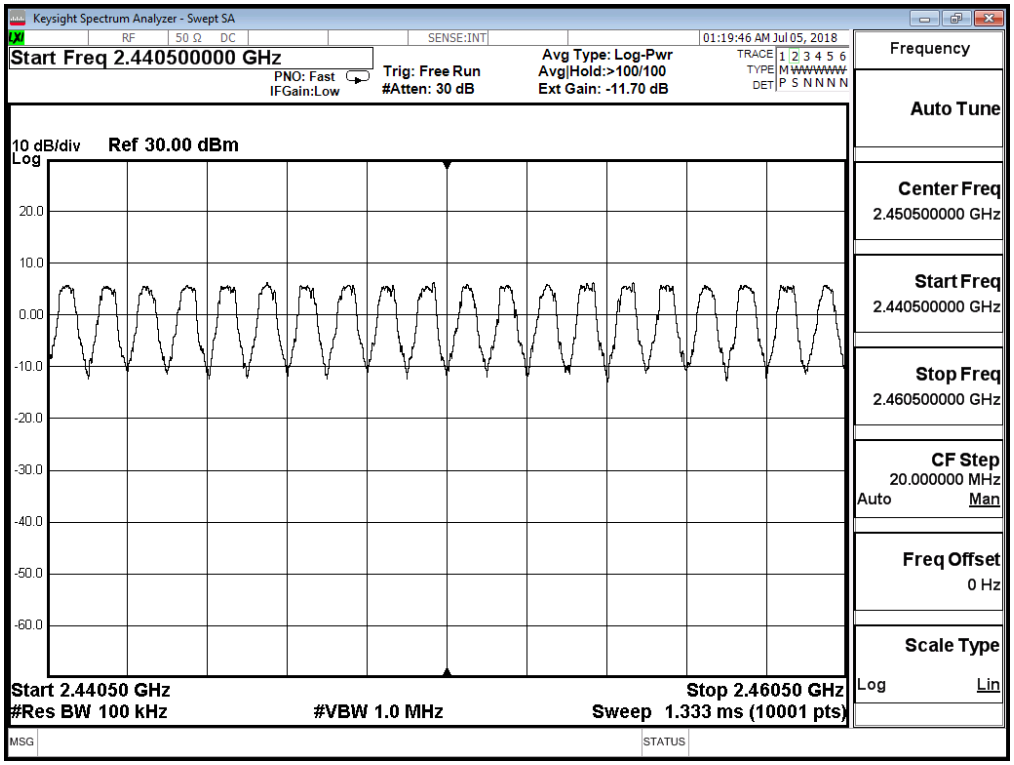
2401.5-2420.5MHz



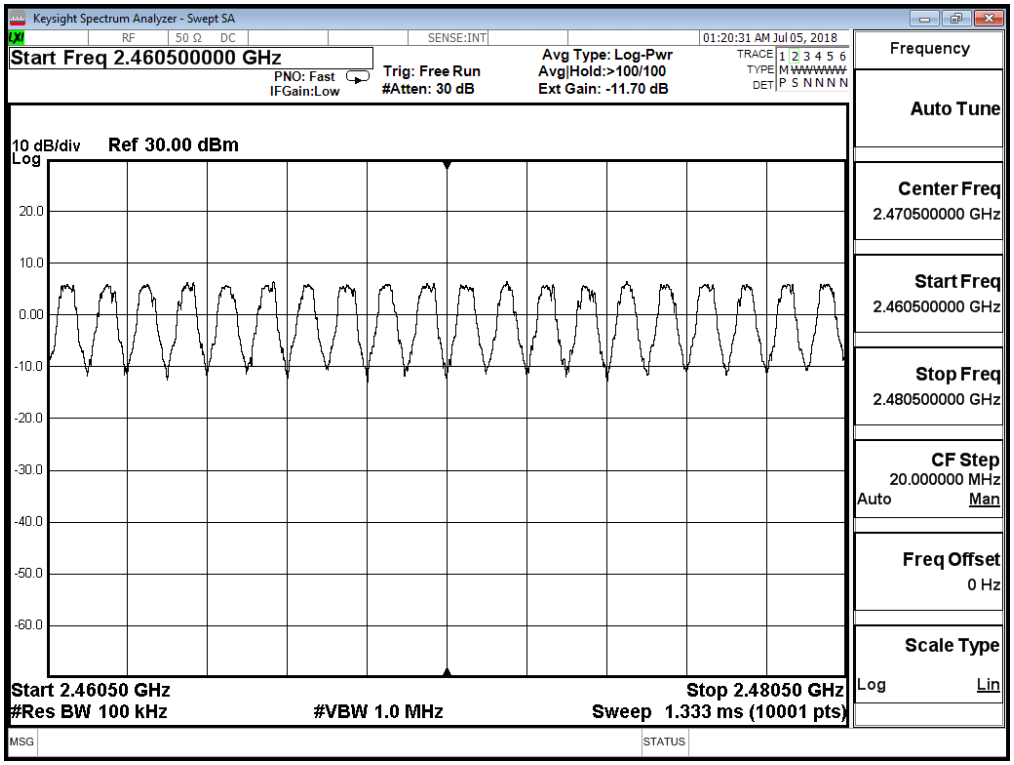
2420.5-2440.5MHz



2440.5-2460.5MHz

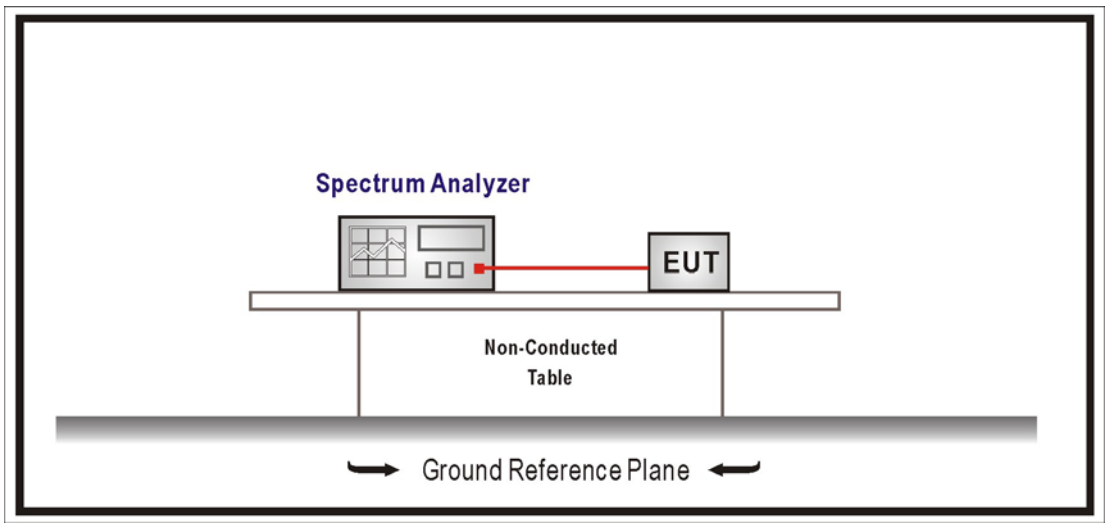


2460.5-2480.5MHz



8. Carrier Frequency Separation

8.1. Test Setup



8.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

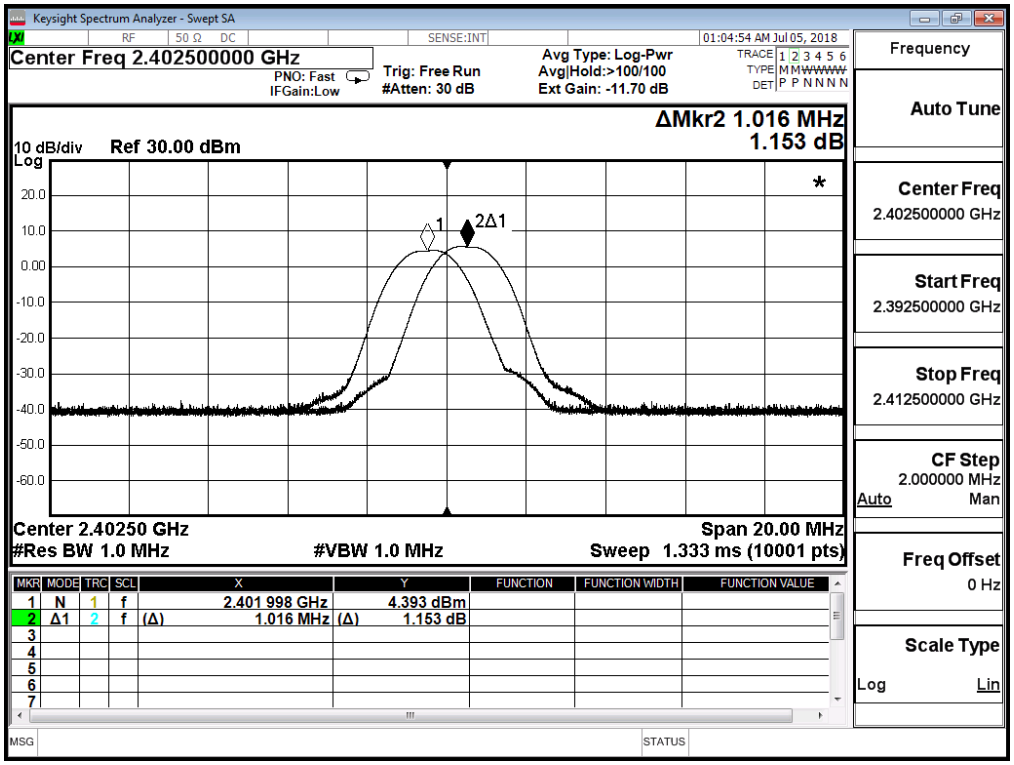
8.5. Test Result

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Carrier Frequency Separation		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/05	Test Site	SR10-H

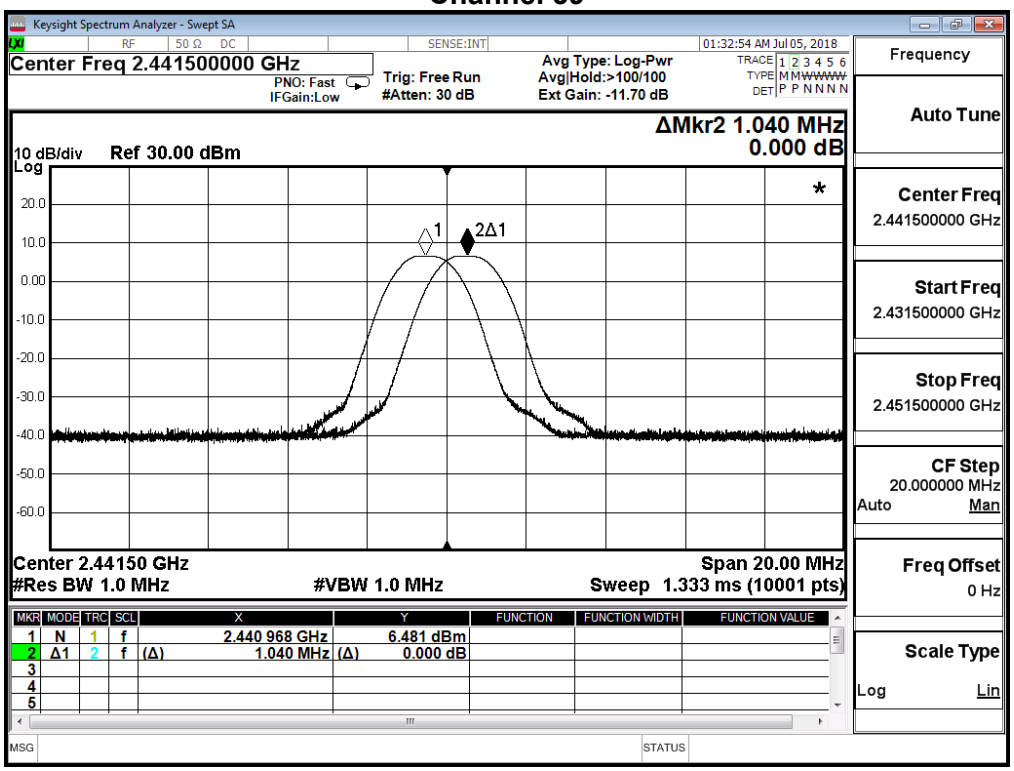
GFSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.016	0.739
39	2441	1.040	0.739
78	2480	1.010	0.741

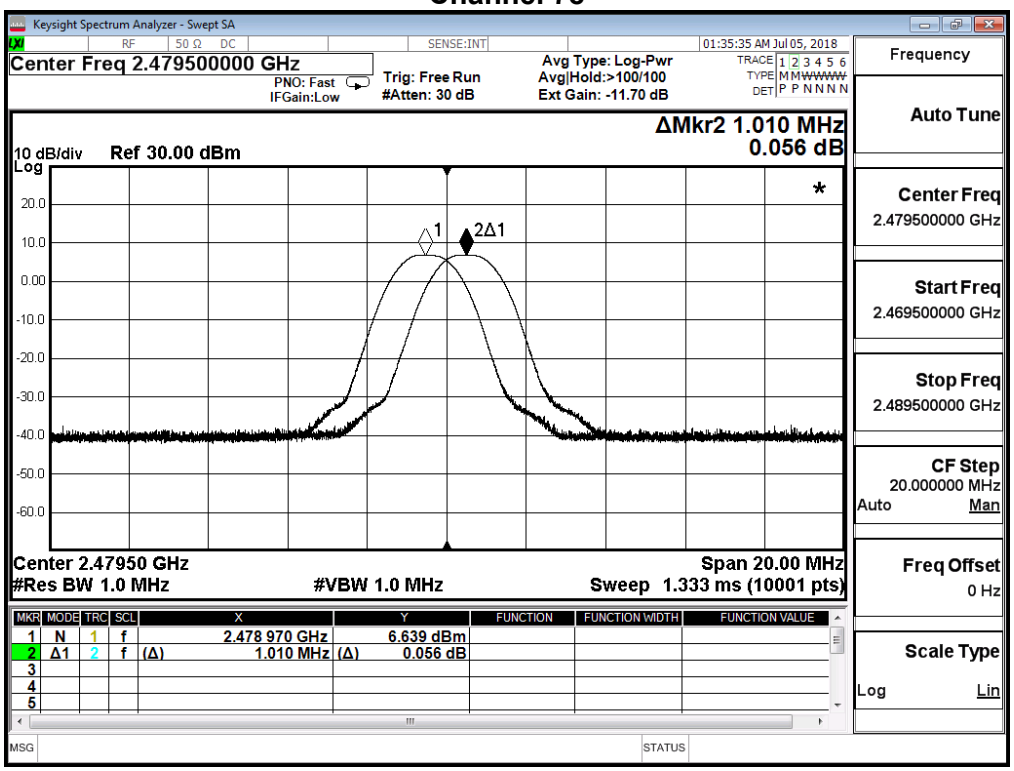
Channel 00



Channel 39



Channel 78

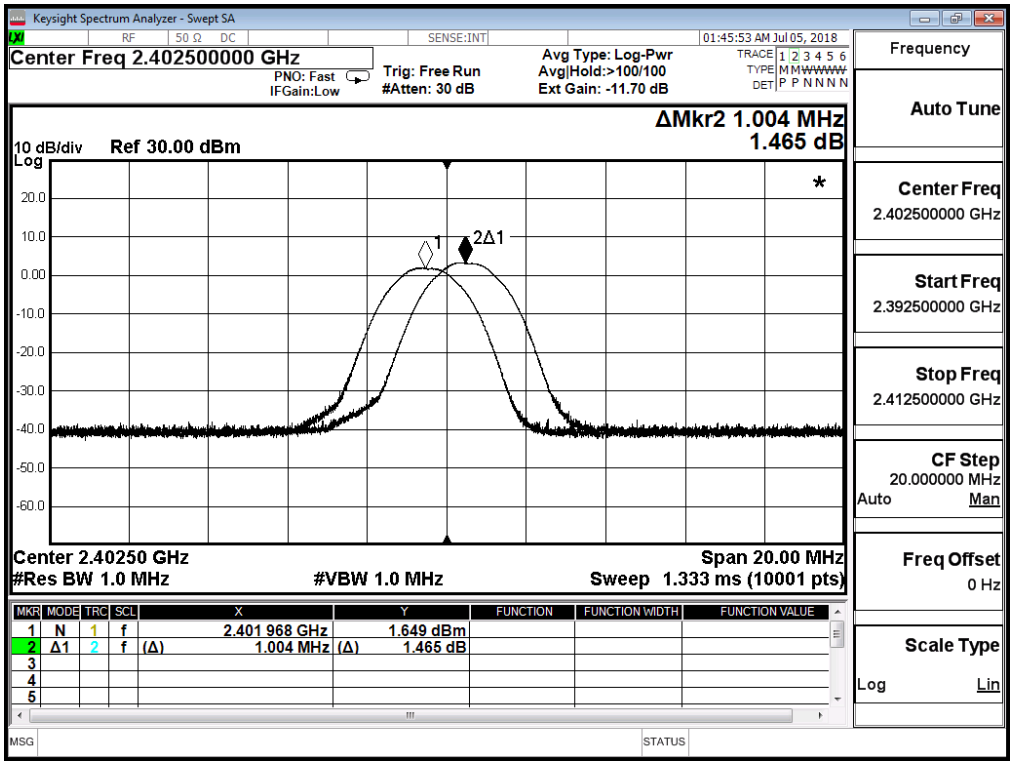


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Carrier Frequency Separation		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/05	Test Site	SR10-H

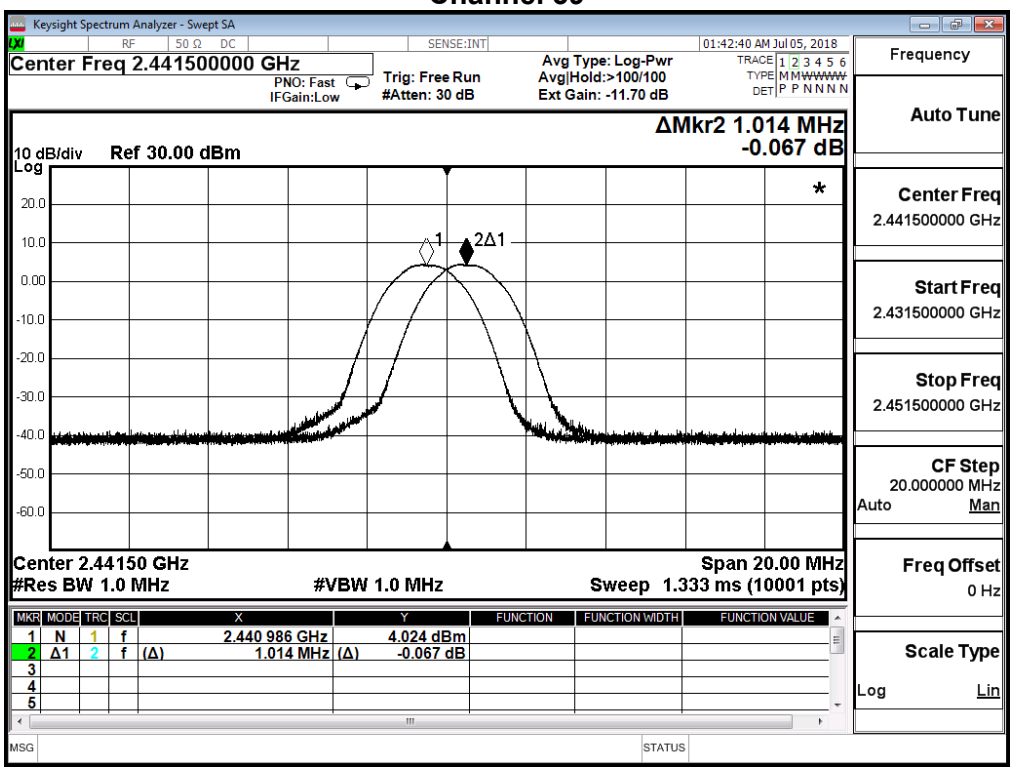
π/4-DQPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.004	0.911
39	2441	1.014	0.909
78	2480	1.020	0.909

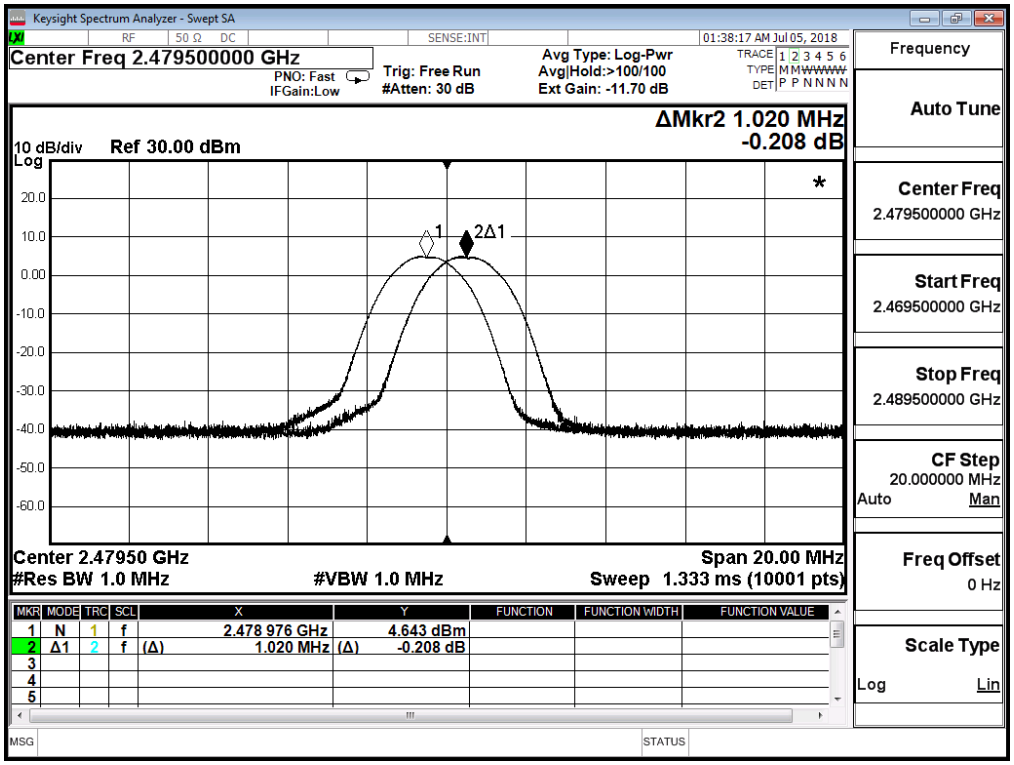
Channel 00



Channel 39



Channel 78

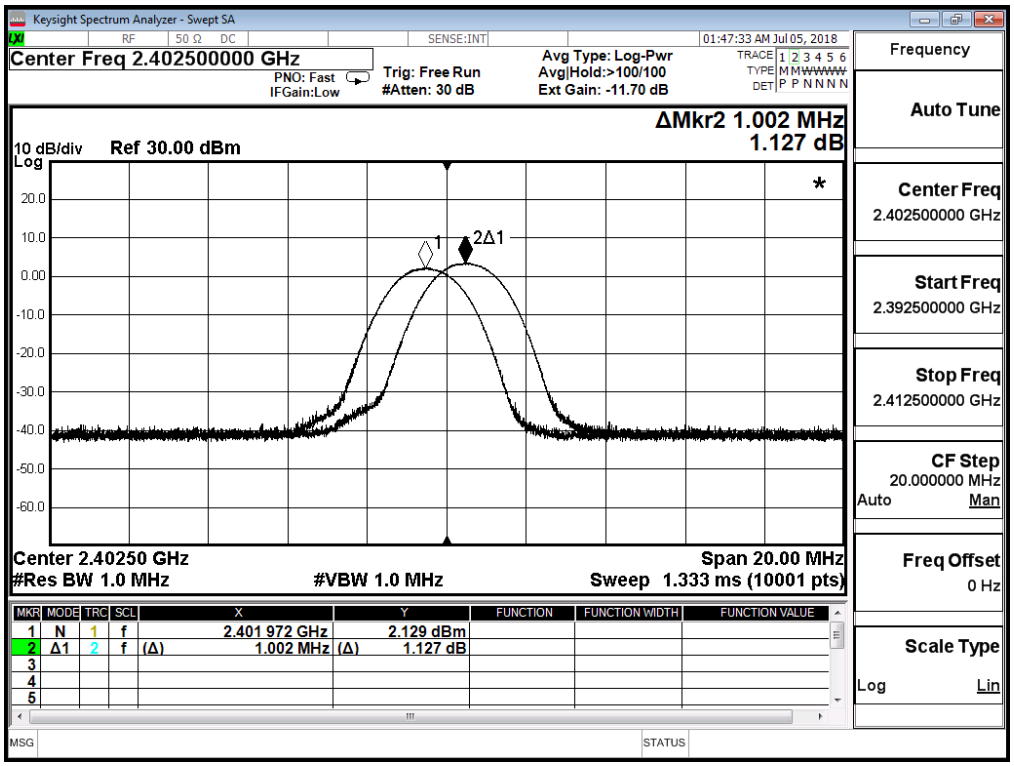


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Carrier Frequency Separation		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/05	Test Site	SR10-H

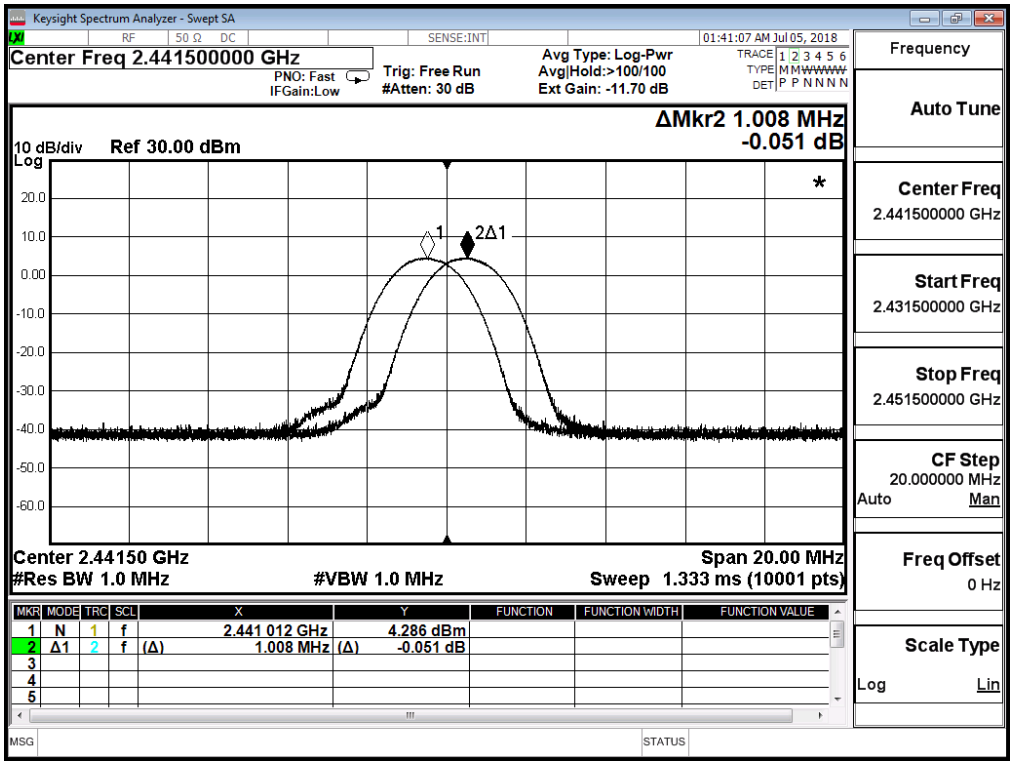
8-DPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.002	0.912
39	2441	1.008	0.912
78	2480	1.006	0.914

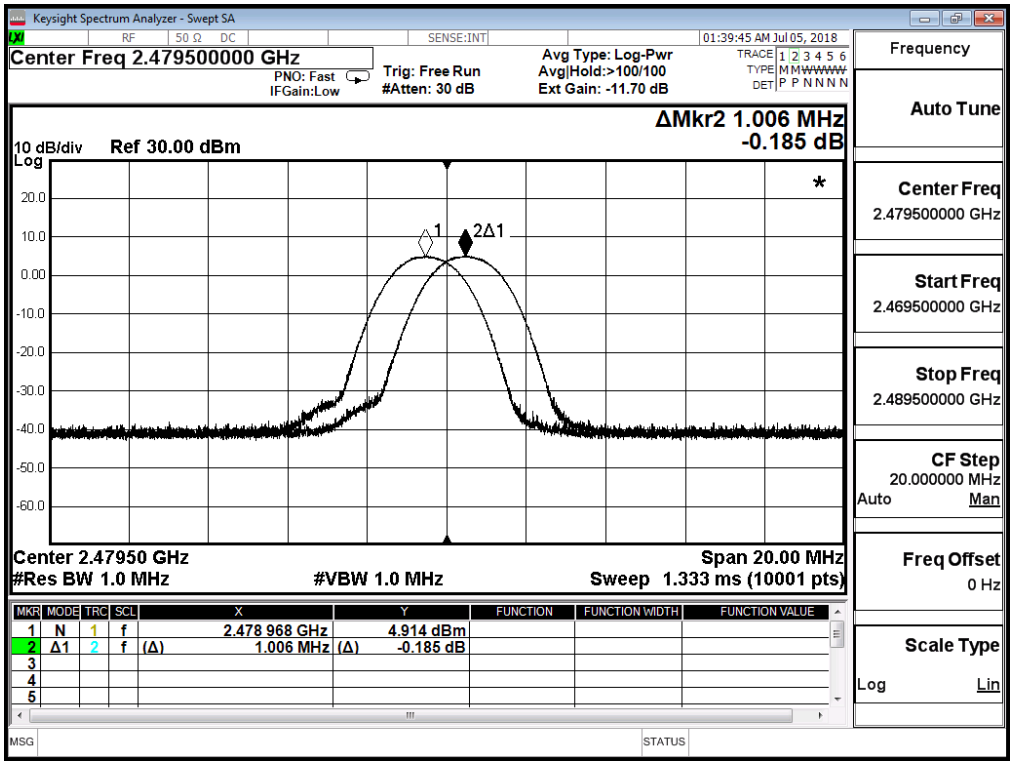
Channel 00



Channel 39

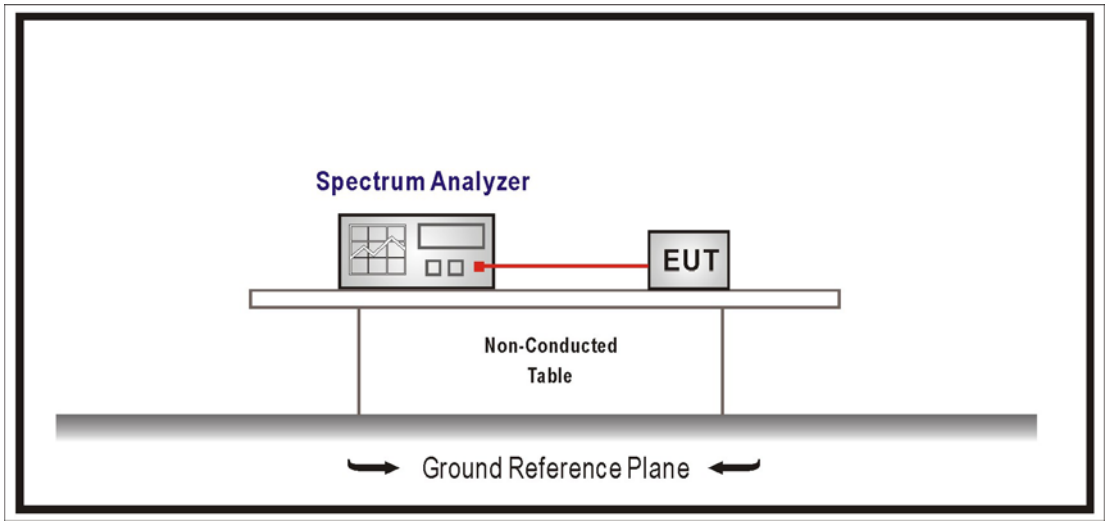


Channel 78



9. Occupied Bandwidth

9.1. Test Setup



9.2. Limits

N/A

9.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold, The EUT should be transmitting at its maximum data rate.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017.

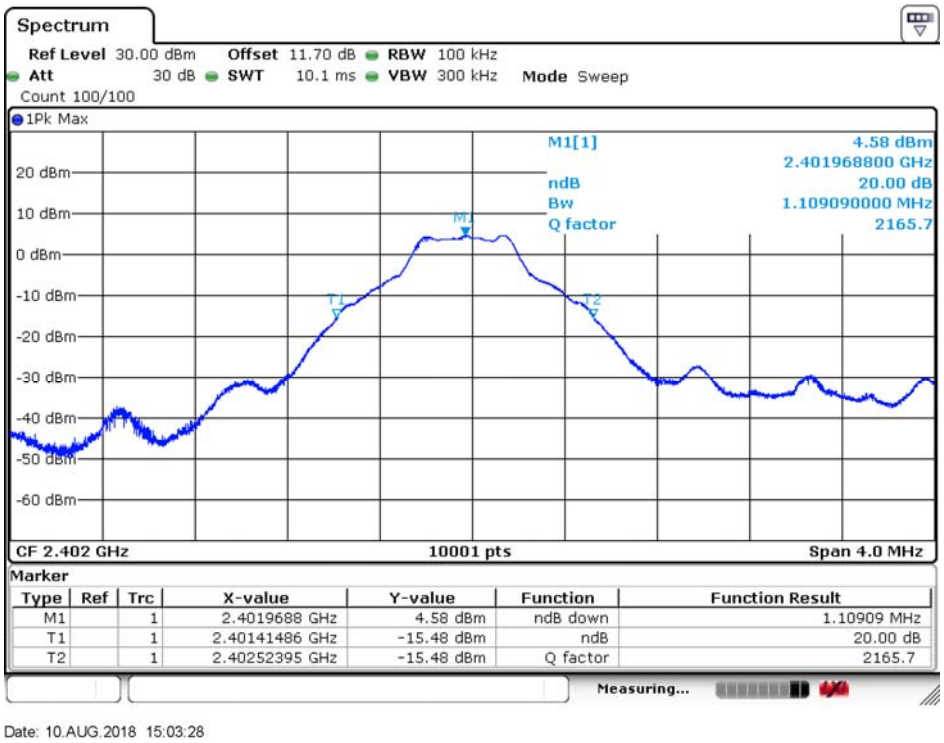
9.5. Test Result

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/08/10	Test Site	SR10-H

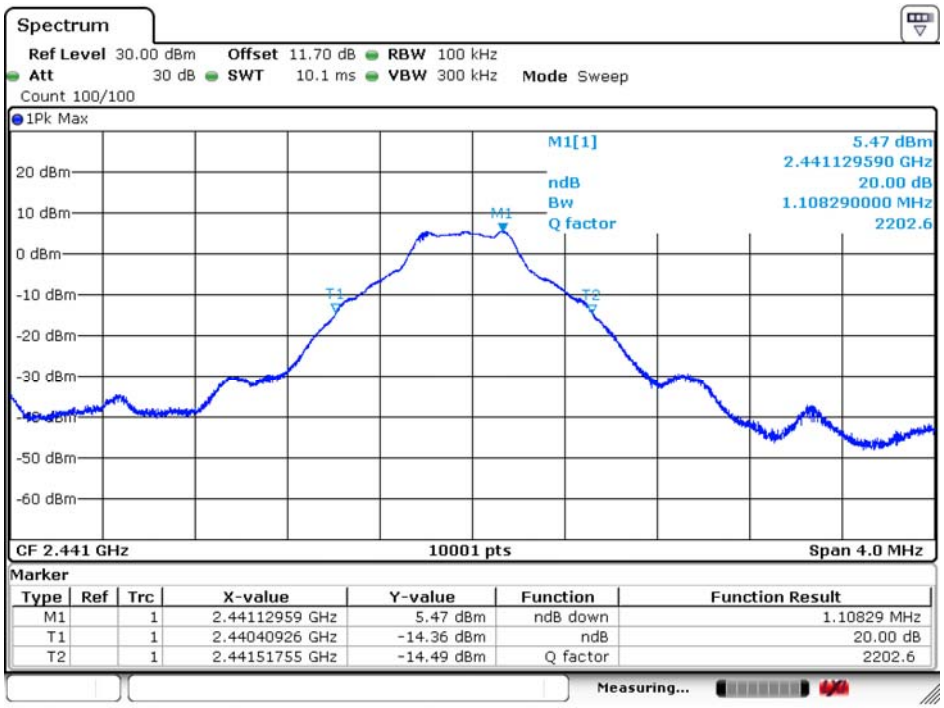
GFSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.109	--
39	2441	1.108	--
78	2480	1.111	--

Channel 00

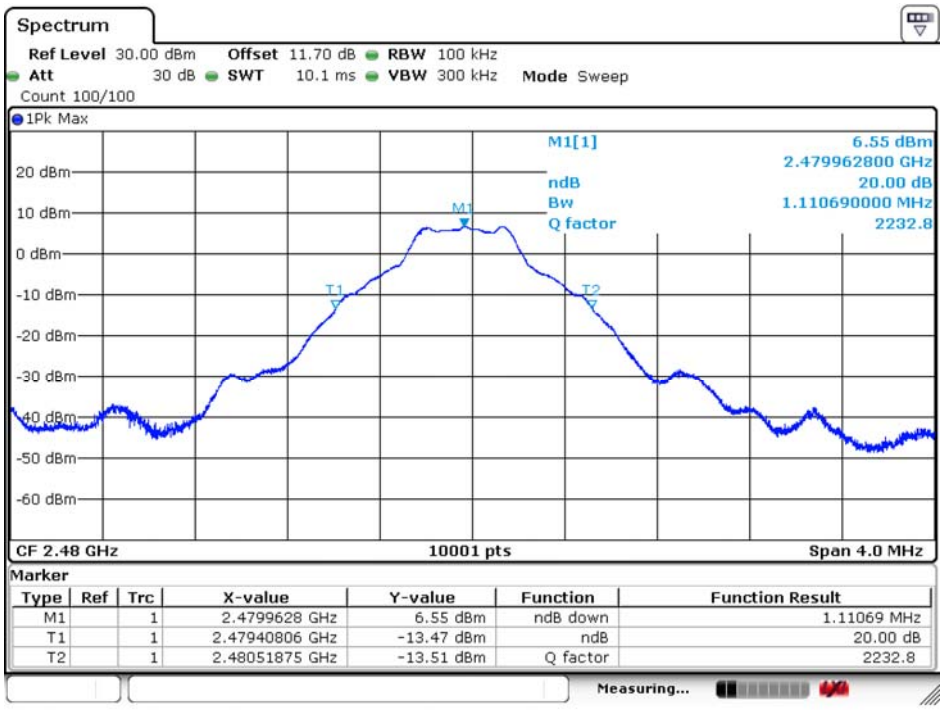


Channel 39



Date: 10.AUG.2018 15:04:42

Channel 78



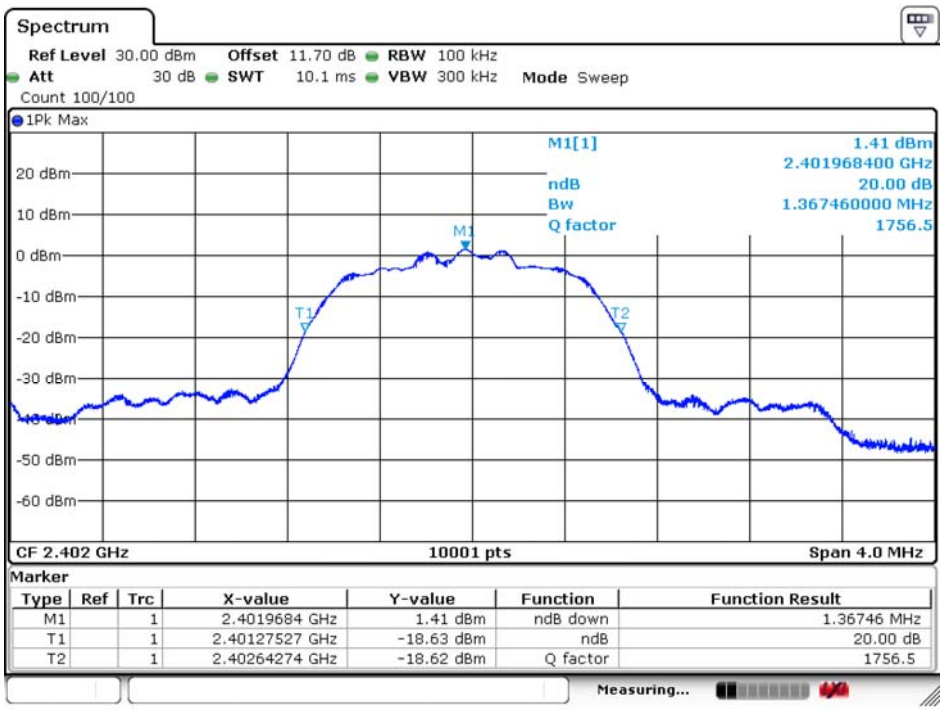
Date: 10.AUG.2018 15:05:35

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/08/10	Test Site	SR10-H

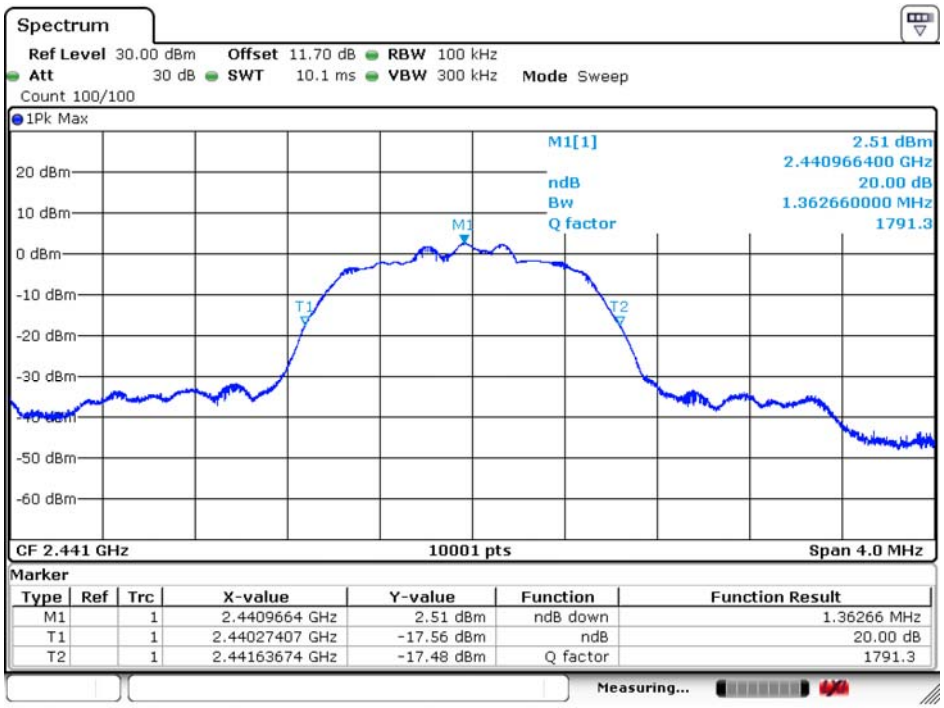
π/4-DQPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.367	--
39	2441	1.363	--
78	2480	1.363	--

Channel 00



Channel 39

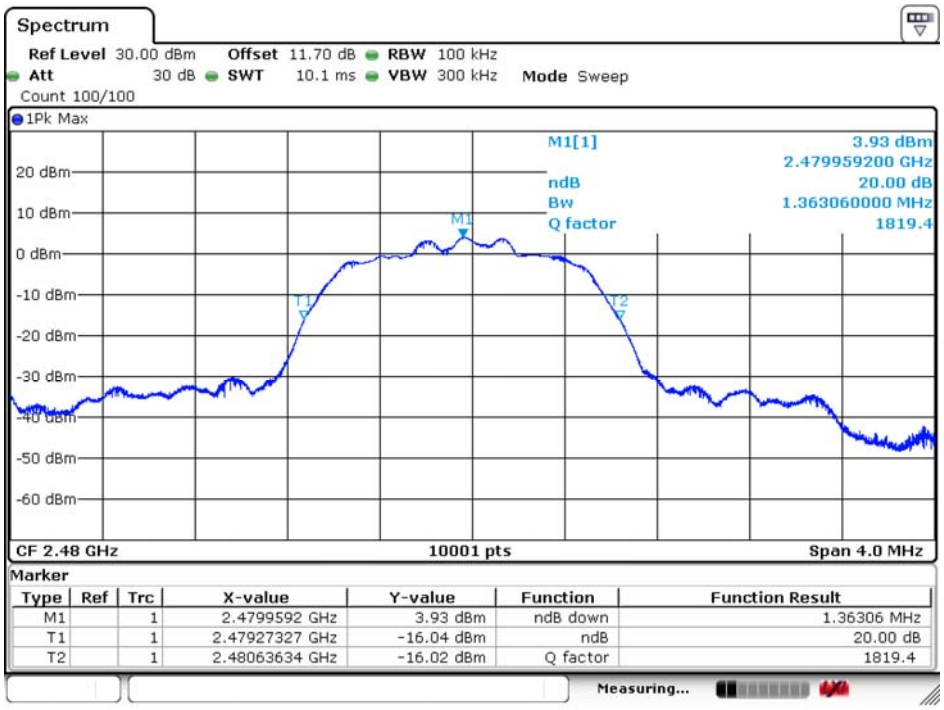


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409664 GHz	2.51 dBm	ndB down	1.36266 MHz
T1		1	2.44027407 GHz	-17.56 dBm	ndB	20.00 dB
T2		1	2.44163674 GHz	-17.48 dBm	Q factor	1791.3

Date: 10.AUG.2018 15:07:48

Channel 78



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4799592 GHz	3.93 dBm	ndB down	1.36306 MHz
T1		1	2.47927327 GHz	-16.04 dBm	ndB	20.00 dB
T2		1	2.48063634 GHz	-16.02 dBm	Q factor	1819.4

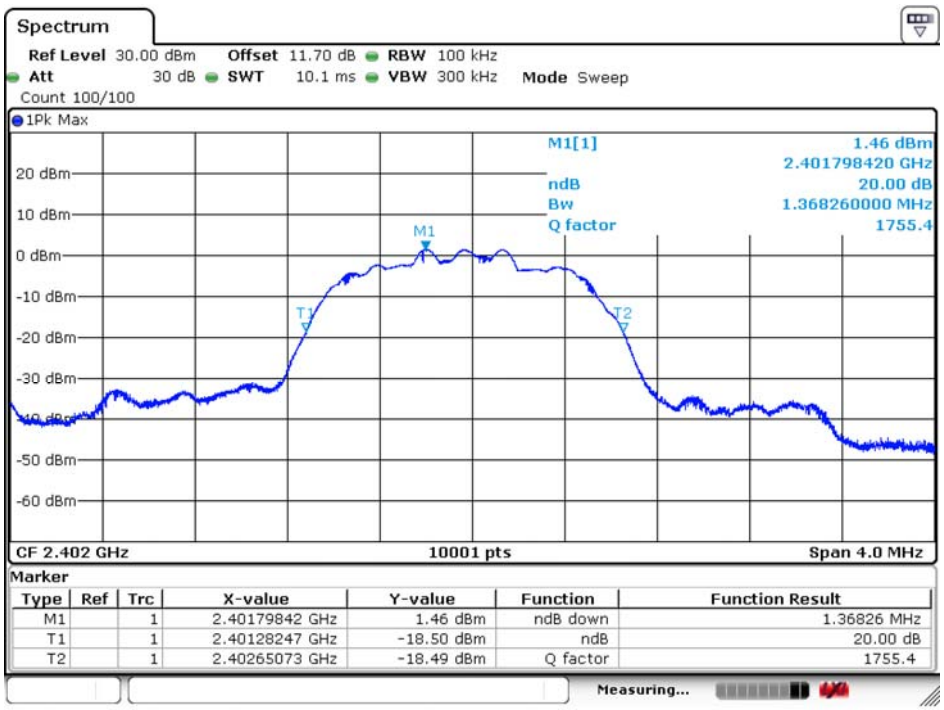
Date: 10.AUG.2018 15:08:45

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/08/10	Test Site	SR10-H

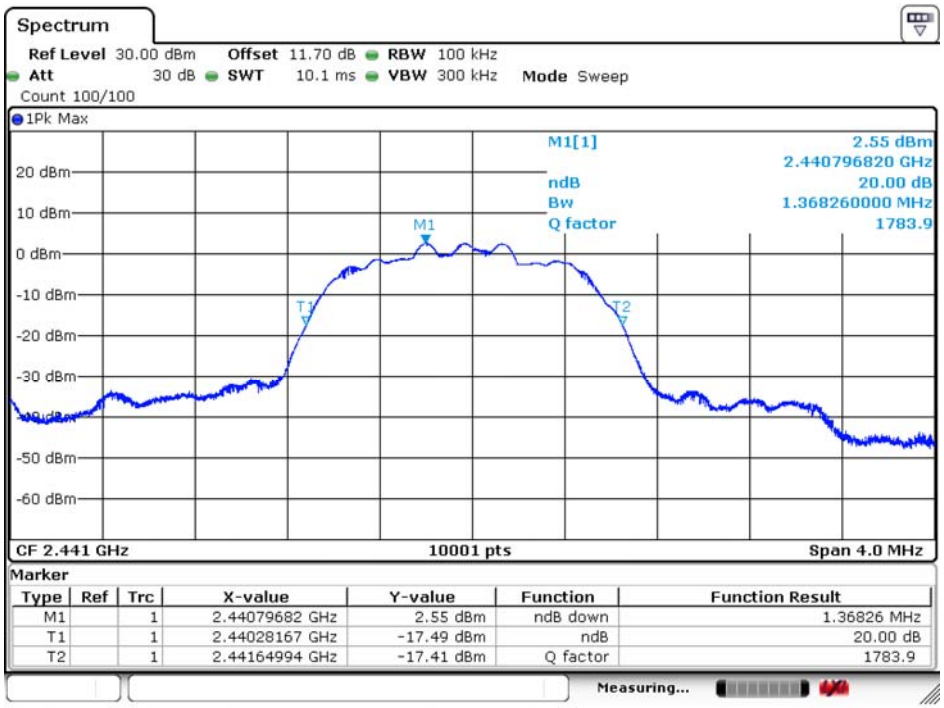
8-DPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.368	--
39	2441	1.368	--
78	2480	1.371	--

Channel 00



Channel 39

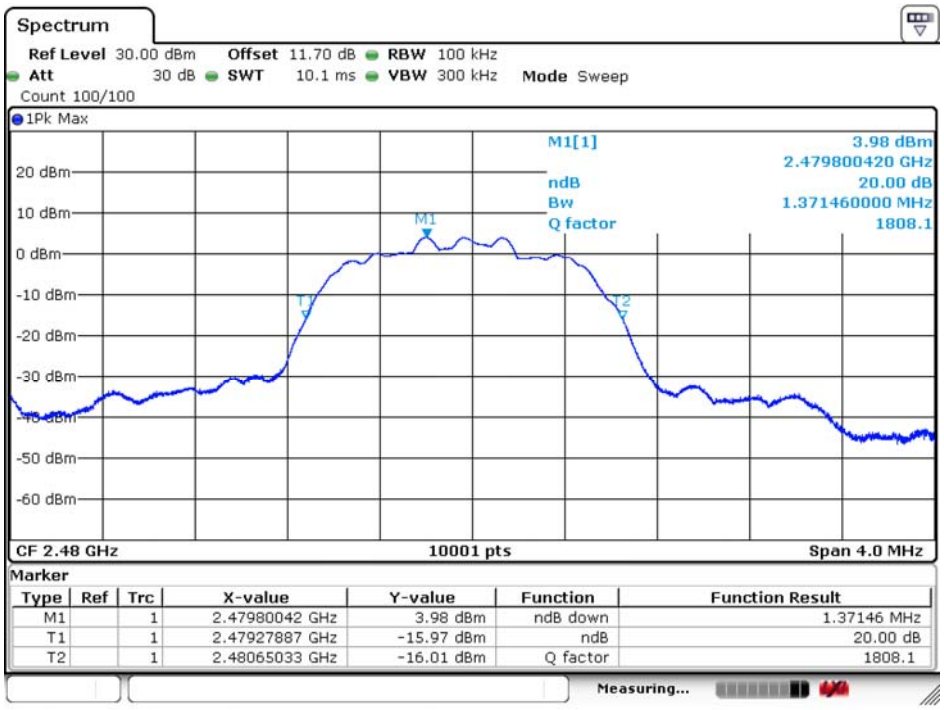


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44079682 GHz	2.55 dBm	ndB down	1.36826 MHz
T1		1	2.44028167 GHz	-17.49 dBm	ndB	20.00 dB
T2		1	2.44164994 GHz	-17.41 dBm	Q factor	1783.9

Date: 10.AUG.2018 15:12:23

Channel 78



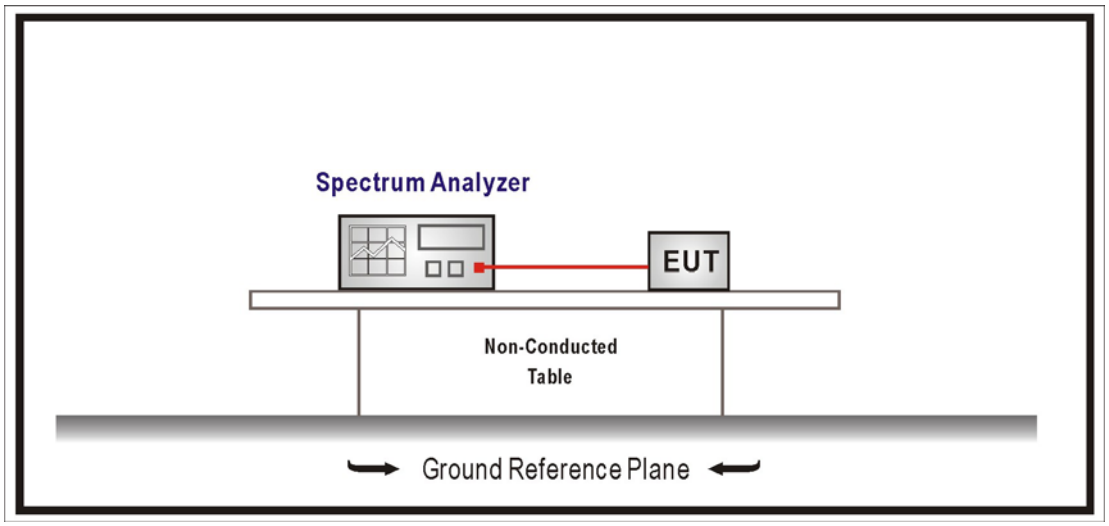
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47980042 GHz	3.98 dBm	ndB down	1.37146 MHz
T1		1	2.47927887 GHz	-15.97 dBm	ndB	20.00 dB
T2		1	2.48065033 GHz	-16.01 dBm	Q factor	1808.1

Date: 10.AUG.2018 15:14:35

10. Dwell Time

10.1. Test Setup



10.2. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

For frequency hopping systems operating in the 2400-2483.5 MHz bands. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

10.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

Span = zero span, centered on a hopping channel, RBW = 1 MHz, VBW ≥ RBW,

Sweep = as necessary to capture the entire dwell time per hopping channel,

Detector function = peak, Trace = max hold.

10.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

10.5. Test Result

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/04	Test Site	SR10-H

GFSK, DH5

Occupancy Time of Frequency Hopping System

A) 2402MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.903 ms = 0.002903 sec

Dwell Time : 0.002903 *(266.67/79)* 31.60= 0.3097 sec。

B) 2441MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.901 ms = 0.002901 sec

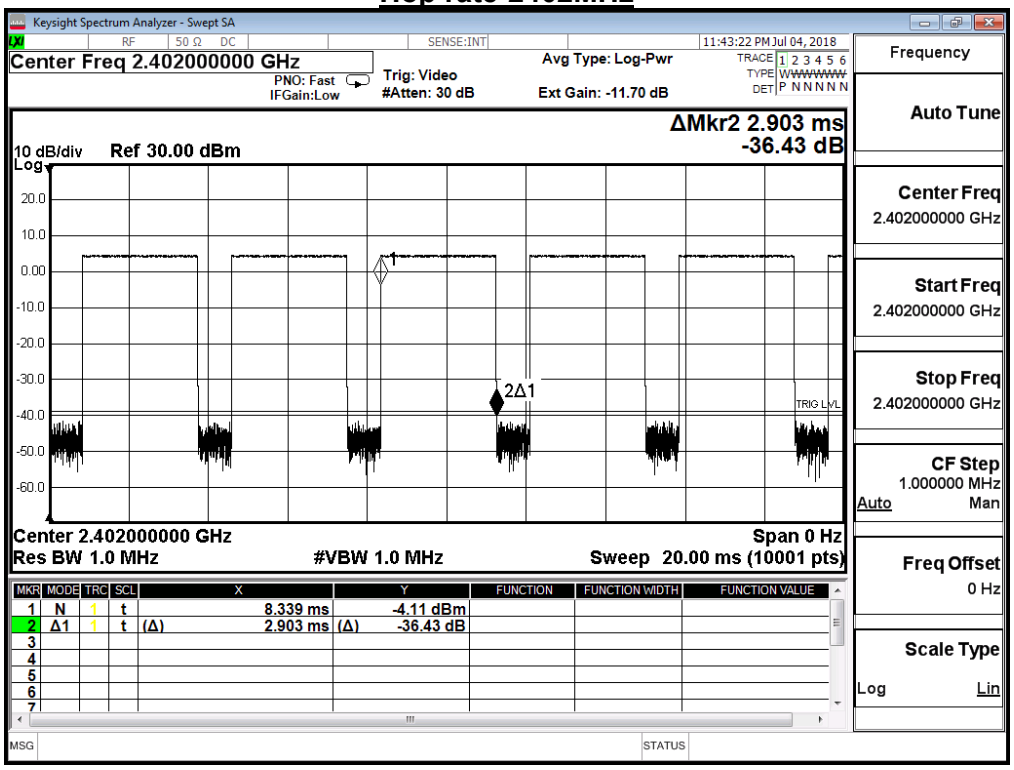
Dwell Time : 0.002901 *(266.67/79)* 31.60= 0.3094 sec。

C) 2480MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.901 ms = 0.002901 sec

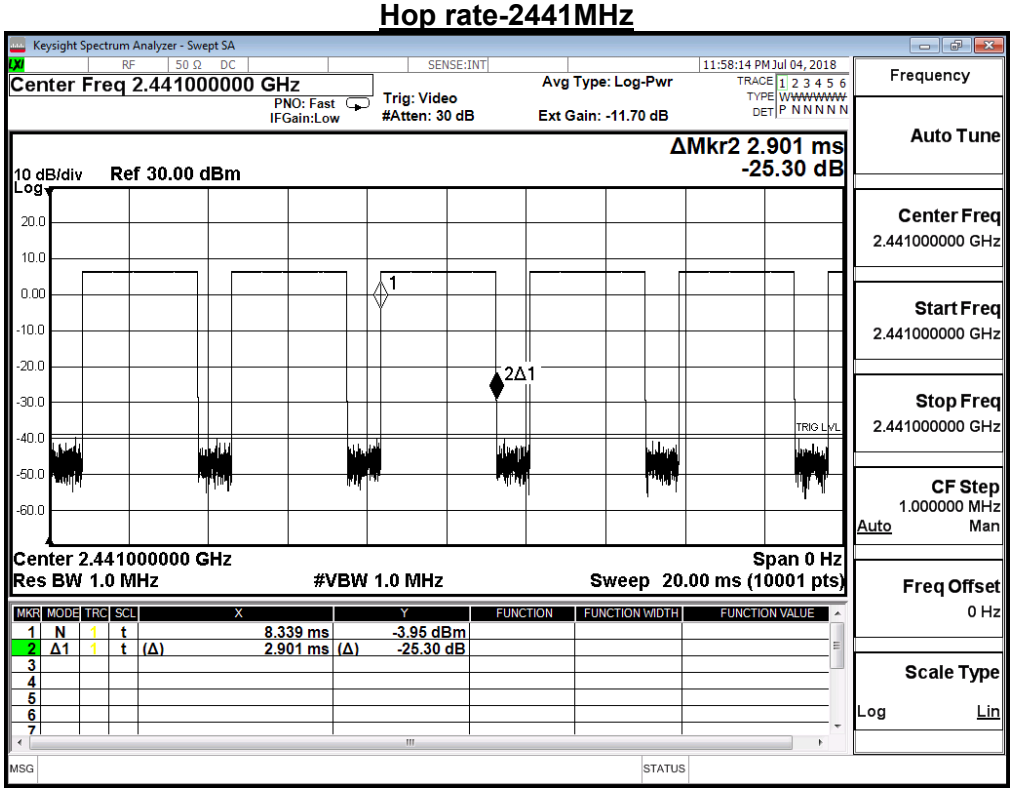
Dwell Time : 0.002901 *(266.67/79)* 31.60= 0.3094 sec。

Test Result: The Average Occupancy Time of Each Highest，Middle and Lowest Channel Is Less Than 0.4sec，And Corresponds to The Standard。

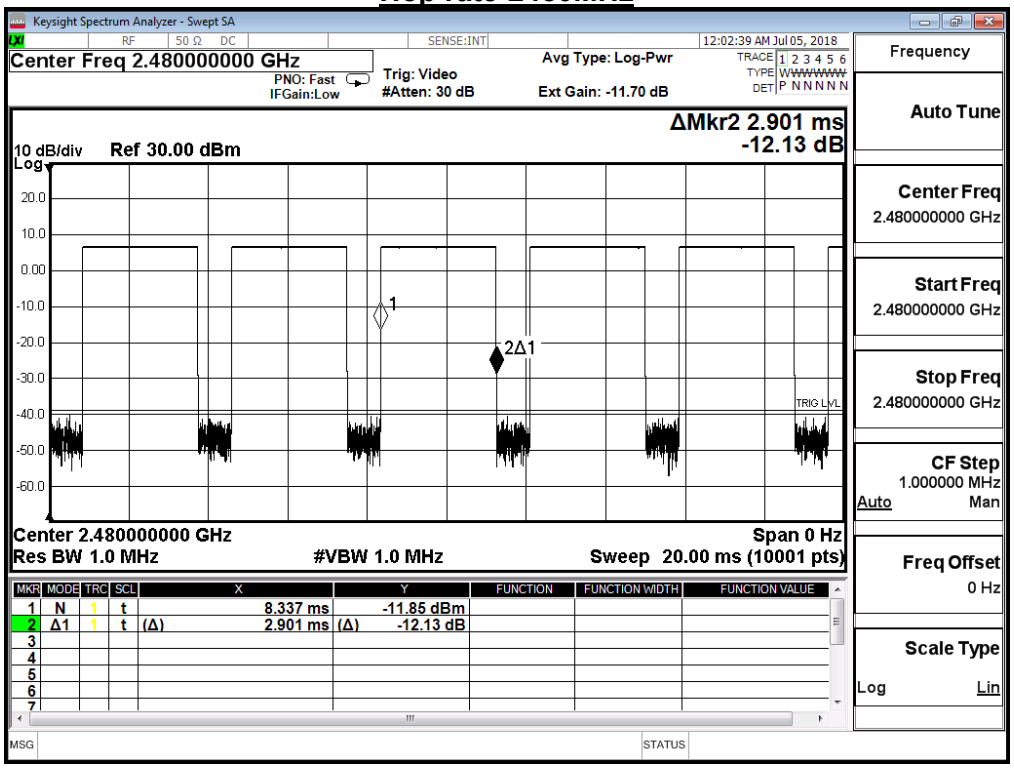
Hop rate-2402MHz



Hop rate-2441MHz



Hop rate-2480MHz



Note: Dwell time＝time slot length * hop rate / number of hopping channels * period

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/04	Test Site	SR10-H

π/4-DQPSK, 2DH5

Occupancy Time of Frequency Hopping System

A) 2402MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.913 ms = 0.002913 sec

Dwell Time : 0.002913 *(266.67/79)* 31.60= 0.3107 sec。

B) 2441MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.909 ms = 0.002909 sec

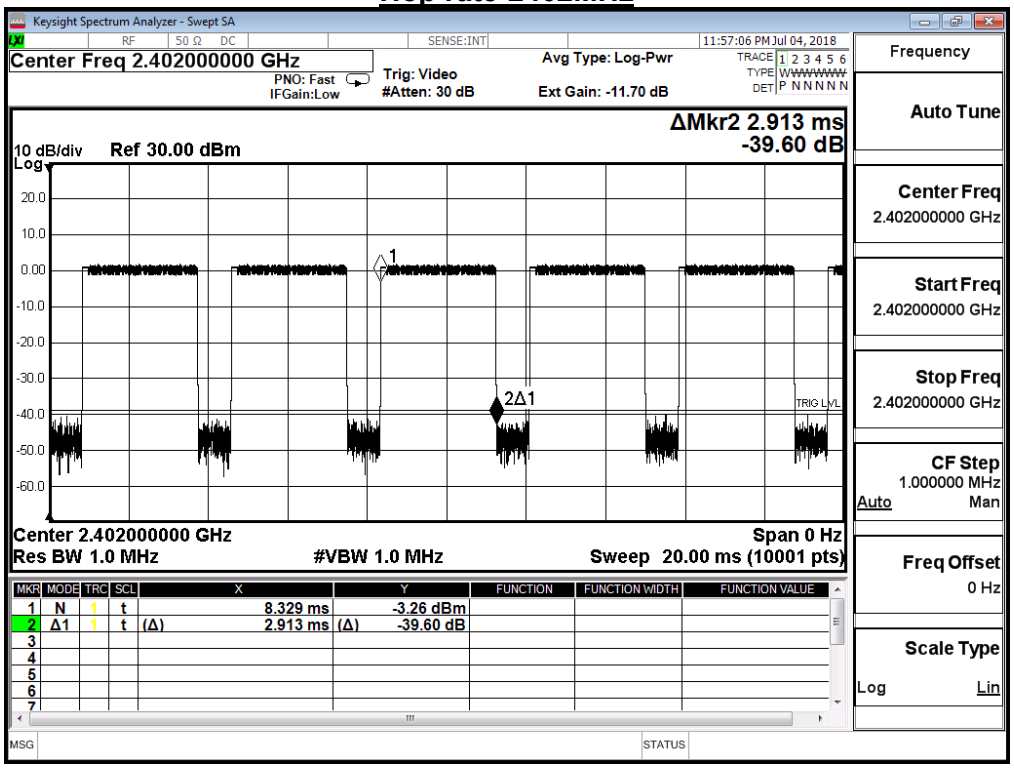
Dwell Time : 0.002909 *(266.67/79)* 31.60= 0.3103 sec。

C) 2480MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.909 ms = 0.002909 sec

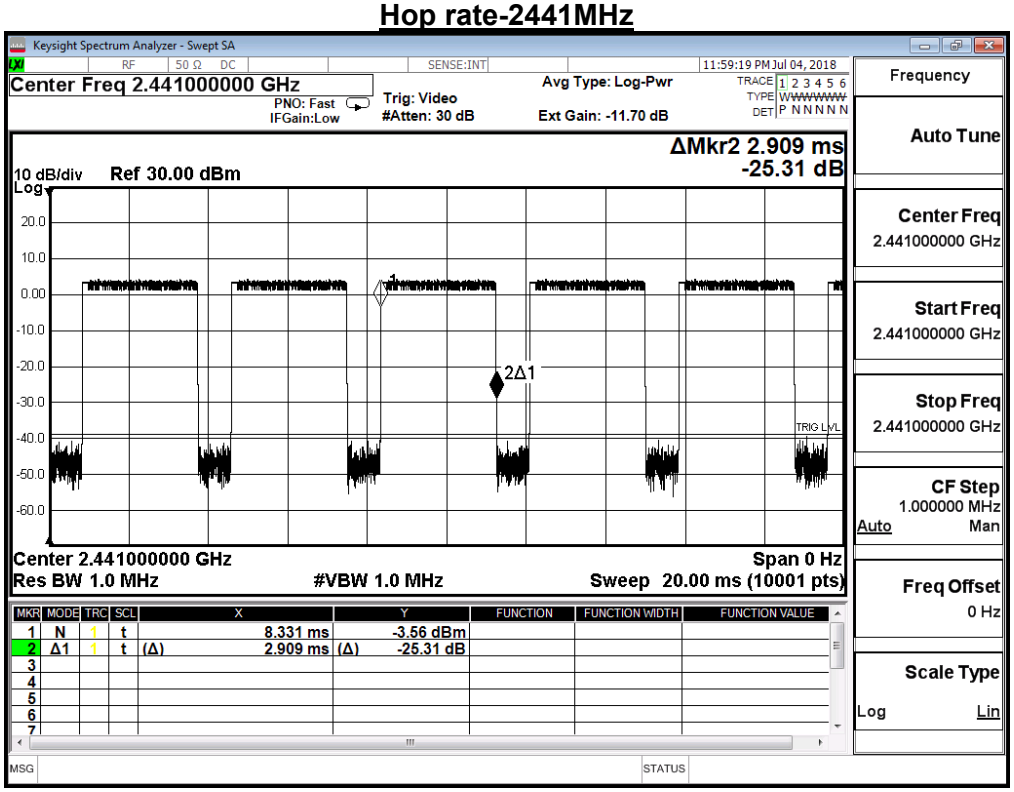
Dwell Time : 0.002909 *(266.67/79)* 31.60= 0.3103 sec。

Test Result: The Average Occupancy Time of Each Highest，Middle and Lowest Channel Is Less Than 0.4sec，And Corresponds to The Standard。

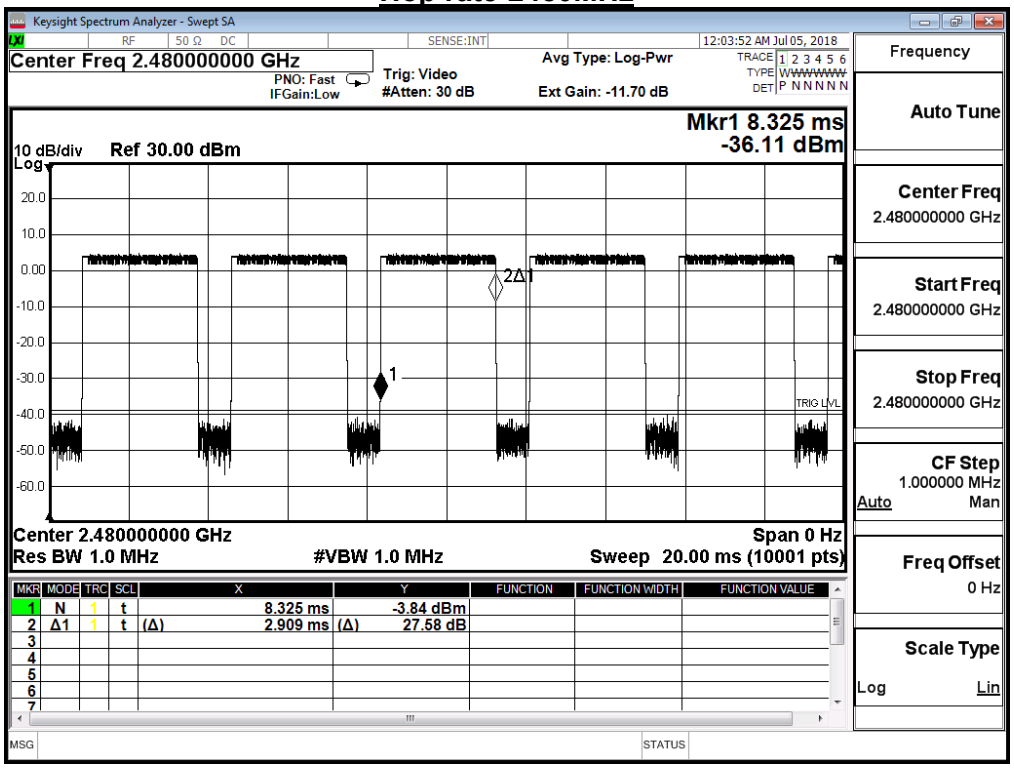
Hop rate-2402MHz



Hop rate-2441MHz



Hop rate-2480MHz



Note: Dwell time＝time slot length * hop rate / number of hopping channels * period

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit_ADP_45BW B		
Date of Test	2018/07/04	Test Site	SR10-H

8-DPSK, 3DH5

Occupancy Time of Frequency Hopping System

A) 2402MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.907 ms = 0.002907 sec

Dwell Time : 0.002907 *(266.67/79)* 31.60= 0.3101 sec。

B) 2441MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.913 ms = 0.002913 sec

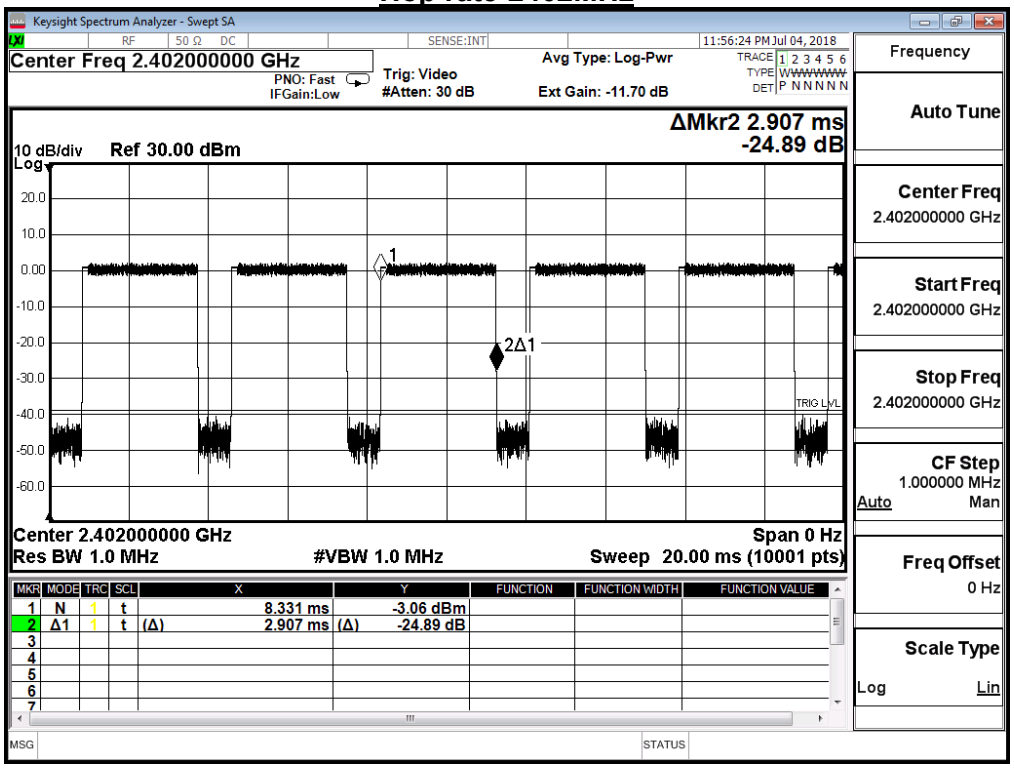
Dwell Time : 0.002913 *(266.67/79)* 31.60= 0.3107 sec。

C) 2480MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.905 ms = 0.002905 sec

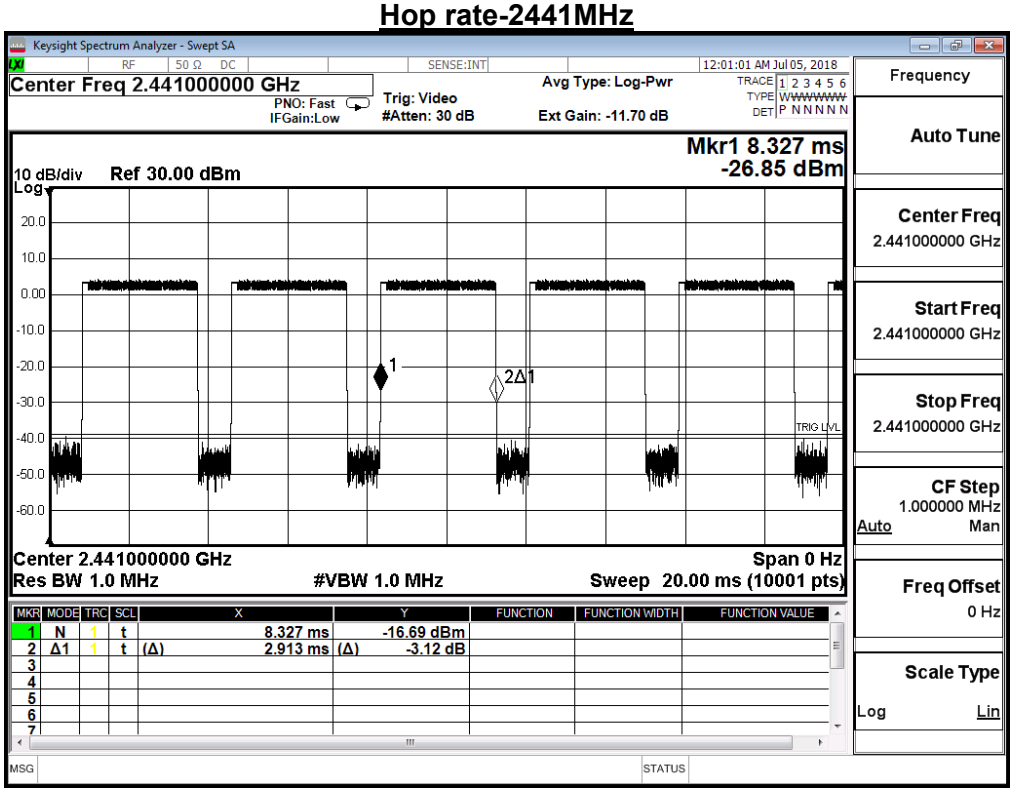
Dwell Time : 0.002905 *(266.67/79)* 31.60= 0.3099 sec。

Test Result: The Average Occupancy Time of Each Highest，Middle and Lowest Channel Is Less Than 0.4sec，And Corresponds to The Standard。

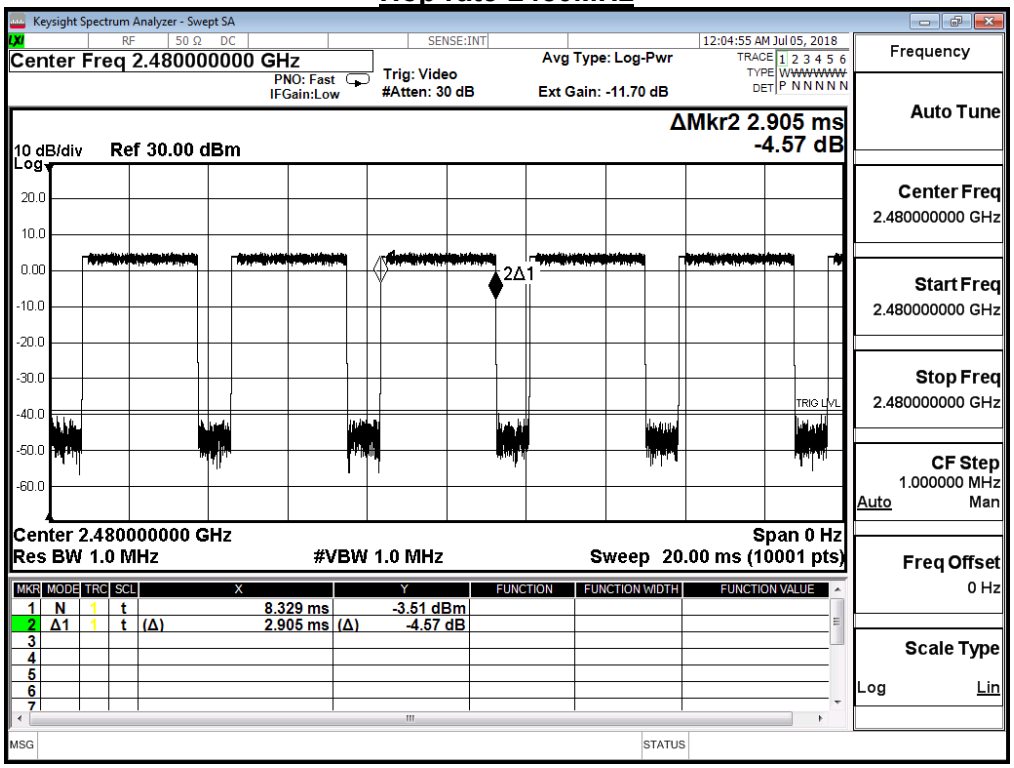
Hop rate-2402MHz



Hop rate-2441MHz



Hop rate-2480MHz



Note: Dwell time＝time slot length * hop rate / number of hopping channels * period