

FCC/ISED Test Report

Product Name : KNOT
Trade Name : MikroTik
Model No. : RB924i-2nD-BT5&BG77
FCC ID : TV7924BT5BG77
IC : 7442A-924BT5BG77

Applicant : Mikrotikls SIA
Address : Brivibas gatve 214i, Riga, LV-1039, Latvia

Date of Receipt : Dec. 28, 2020
Issued Date : Jun. 01, 2021
Report No. : 20C1010R-E3032110113
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Jun. 01, 2021

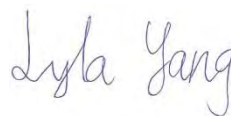
Report No. : 20C1010R-E3032110113



Product Name : KNOT
Applicant : Mikrotiks SIA
Address : Brivibas gatve 214i, Riga, LV-1039, Latvia
Manufacturer : Mikrotiks SIA
Address : Brivibas gatve 214i, Riga, LV-1039, Latvia
Trade Name : MikroTik
Model No. : RB924i-2nD-BT5&BG77
FCC ID : TV7924BT5BG77
IC : 7442A-924BT5BG77
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: 2019
ANSI C63.10: 2013
RSS-247 Issue 2 (Feb. 2017)
Laboratory Name : Hsin Chu Laboratory
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Test Result : Complied

Documented By

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(Lyla Yang / Engineering Adm. Specialist)

Tested By

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(Ling Chen / Engineer)

Approved By

:



(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jun. 01, 2021

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1. General Information

1.1. EUT Description

Product Name	KNOT	
Trade Name	MikroTik	
Model No.	RB924i-2nD-BT5&BG77	
Frequency Range / Channel Number	IEEE 802.11b/g/	2412~2462MHz / 11 Channels
	IEEE 802.11n (20MHz)	
	IEEE 802.11n (40MHz)	2422~2452MHz / 7 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n

Accessories Information	
Power Adapter	ULLPOWER, SAW30-240-1200U I/P: 100-240V~ 50/60Hz, 0.8A O/P: 24V  1200mA Cable out: Non-Shielded, 1.5m
PoE injector / POE injector connected to ETH 1(PoE in)	MikroTik / RBGPOE

Antenna Information				
No.	Brand	Model No.	Antenna Type	Antenna Gain
0/1	MikroTik	NA	PIFA Antenna	1.5dBi

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

Note:

1. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
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.
3. This device contains a certified WWAN module (FCC ID: XMR201912BG77, IC: 10224A-201912BG77).
4. The EUT description is from the customer declaration.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Transmit Adapter Mode Mode 2: Transmit PoE Mode
-----------	--

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11g	11	0+1	Complies
Maximum peak conducted output power	11b/g	1/6/11	0+1	Complies
	11n (20MHz)	1/6/11	0+1	Complies
	11n (40MHz)	3/6/9	0+1	Complies
Radiated Emission	11b/g	1/6/11	0+1	Complies
	11n (20MHz)	1/6/11	0+1	Complies
	11n (40MHz)	3/6/9	0+1	Complies
RF antenna conducted test	11b/g	1/6/11	0/1	Complies
	11n (20MHz)	1/6/11	0/1	Complies
	11n (40MHz)	3/6/9	0/1	Complies
Radiated Emission Band Edge	11b/g	1/6/11	0+1	Complies
	11n (20MHz)	1/6/11	0+1	Complies
	11n (40MHz)	3/6/9	0+1	Complies
DTS Bandwidth	11b/g	1/6/11	0/1	Complies
	11n (20MHz)	1/6/11	0/1	Complies
	11n (40MHz)	3/6/9	0/1	Complies
Occupied Bandwidth	11b/g	1/6/11	0/1	Complies
	11n (20MHz)	1/6/11	0/1	Complies
	11n (40MHz)	3/6/9	0/1	Complies
Power Density	11b/g	1/6/11	0+1	Complies
	11n (20MHz)	1/6/11	0+1	Complies
	11n (40MHz)	3/6/9	0+1	Complies

Note:

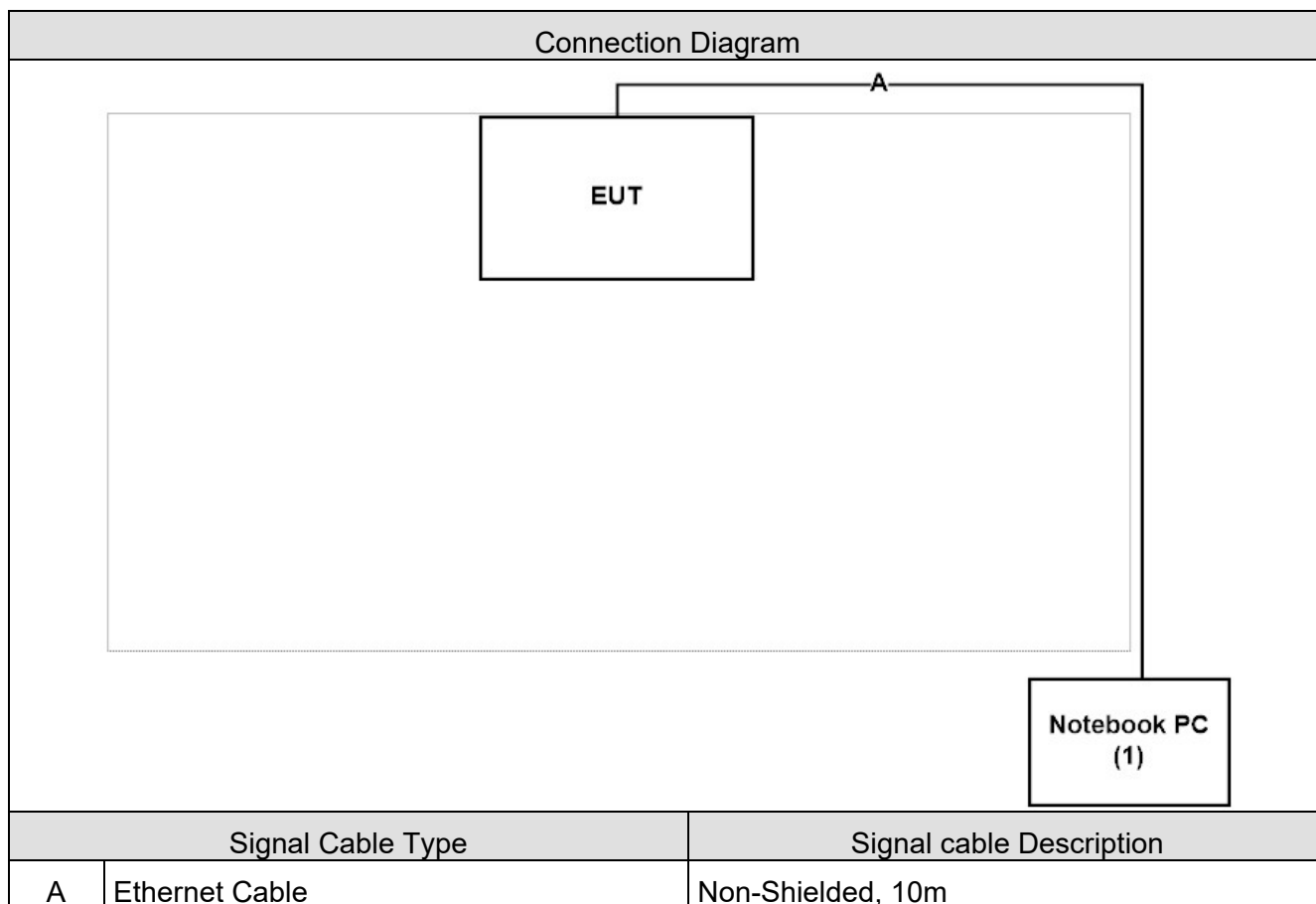
1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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	Lenove	80SJ	MP16Z7TB	DoC	--

1.4. Configuration of tested System



1.5. Operation Descriptions

1	Set the EUT as shown in Section 1.4.
2	Execute the Winbox v3.27 on the laptop.
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending or receiving continuously.
5	Verify that the device is working properly.

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required	Test Site
Temperature (°C)	Conducted Emission	15 - 35	2
Humidity (%RH)		25 - 75	
Temperature (°C)	Maximum peak conducted output power	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	Radiated Emission	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	RF antenna conducted test	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	Radiated Emission Band Edge	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	DTS Bandwidth	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	Occupied Bandwidth	15 - 35	1
Humidity (%RH)		25 - 75	
Temperature (°C)	Power Density	15 - 35	1
Humidity (%RH)		25 - 75	

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 address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

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

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Email address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.8. 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	2020/12/24	2021/12/23
Test Receiver	R&S	ESCS 30	836858/022	2021/02/22	2022/02/21
LISN	R&S	ENV216	100092	2020/06/22	2021/06/21

Maximum peak conducted output power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
Power Meter	Keysight	8990B	MY51000248	2020/05/20	2021/05/19
Power Sensor	Keysight	N1923A	MY57240005	2020/05/20	2021/05/19

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G258	2020/12/16	2021/12/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2020/02/03 2021/01/27	2021/02/02 2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB2-H	NA	NA

RF antenna conducted test / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Radiated Emission Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2020/06/12	2021/06/11
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2020/06/04	2021/06/03
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2020/06/19	2021/06/18
Pre-Amplifier	EMEC	EM01G18GA	060741	2020/07/24	2021/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G258	2020/12/16	2021/12/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB2-H	NA	NA

DTS Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Occupied Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Power Density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

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

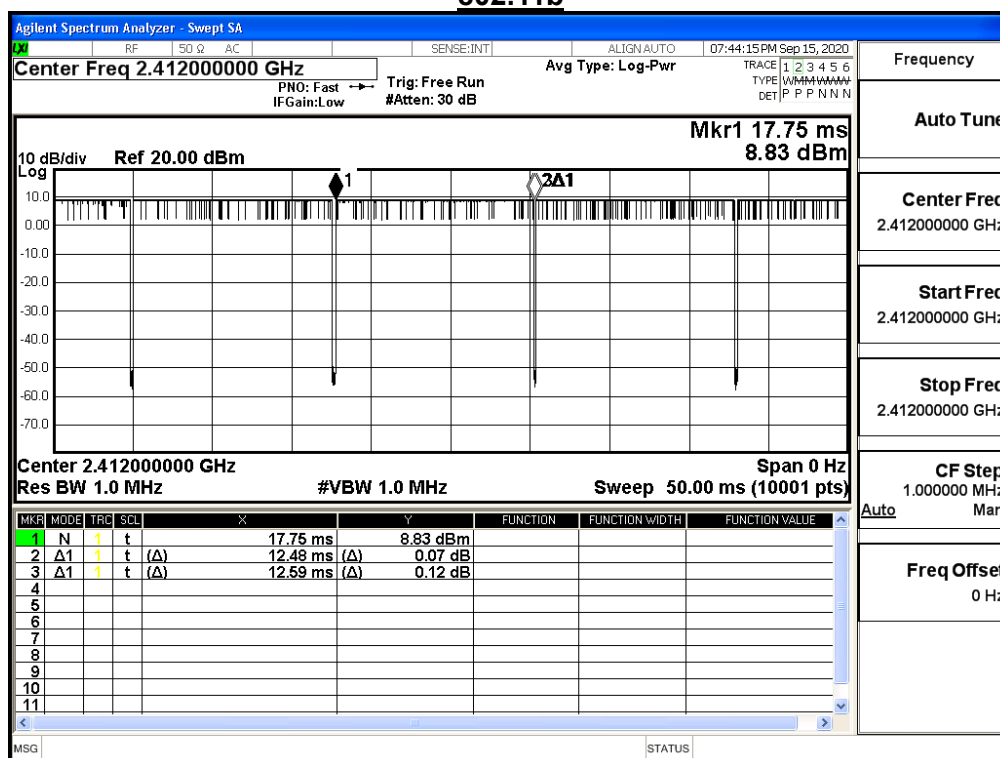
1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
Maximum peak conducted output power	± 1.27 dB
Radiated Emission	30MHz~1GHz as ± 3.43 dB 1GHz~26.5GHz as ± 3.65 dB
RF antenna conducted test	± 1.27 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 50 Hz
Occupied Bandwidth	± 50 Hz
Power Density	± 1.27 dB

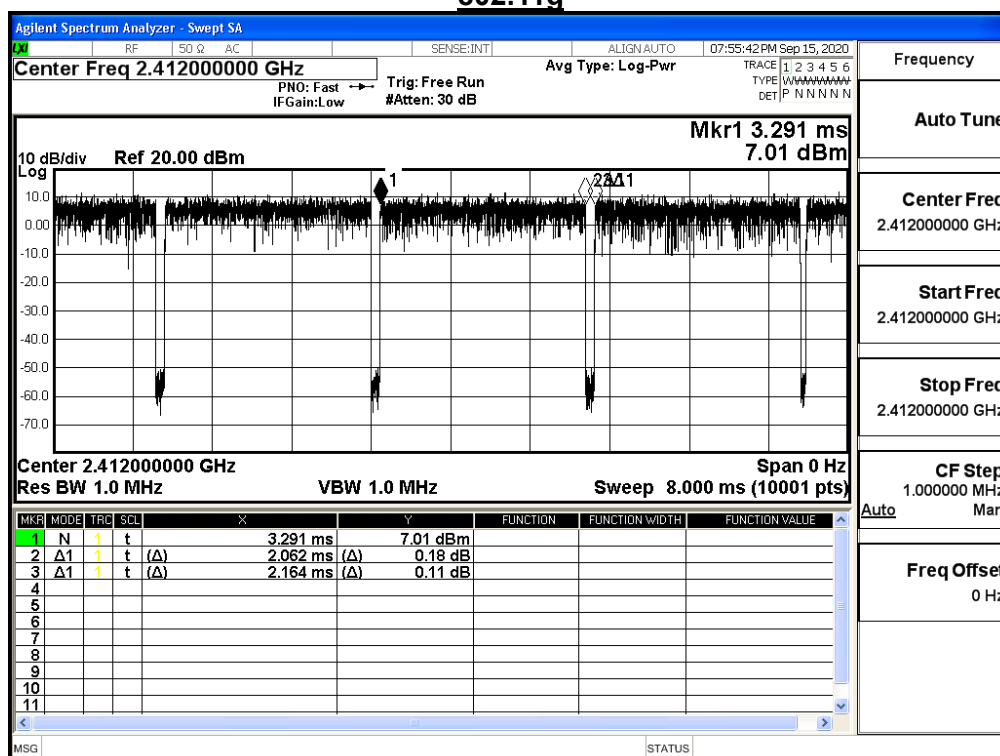
1.10. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
11b	12.480	12.590	99.13%	0.076223	0.04	0.010
11g	2.062	2.164	95.29%	0.419372	0.21	0.485
HT20	1.932	2.012	96.02%	0.352417	0.18	0.518
HT40	0.948	1.091	86.91%	1.218496	0.61	1.055

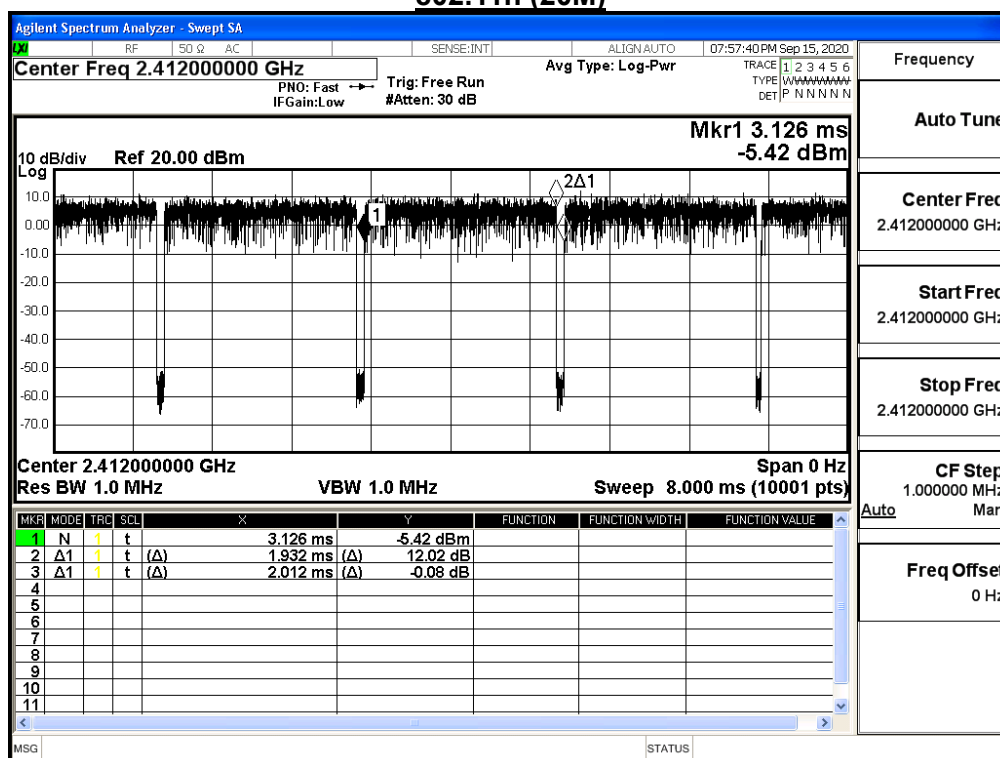
802.11b



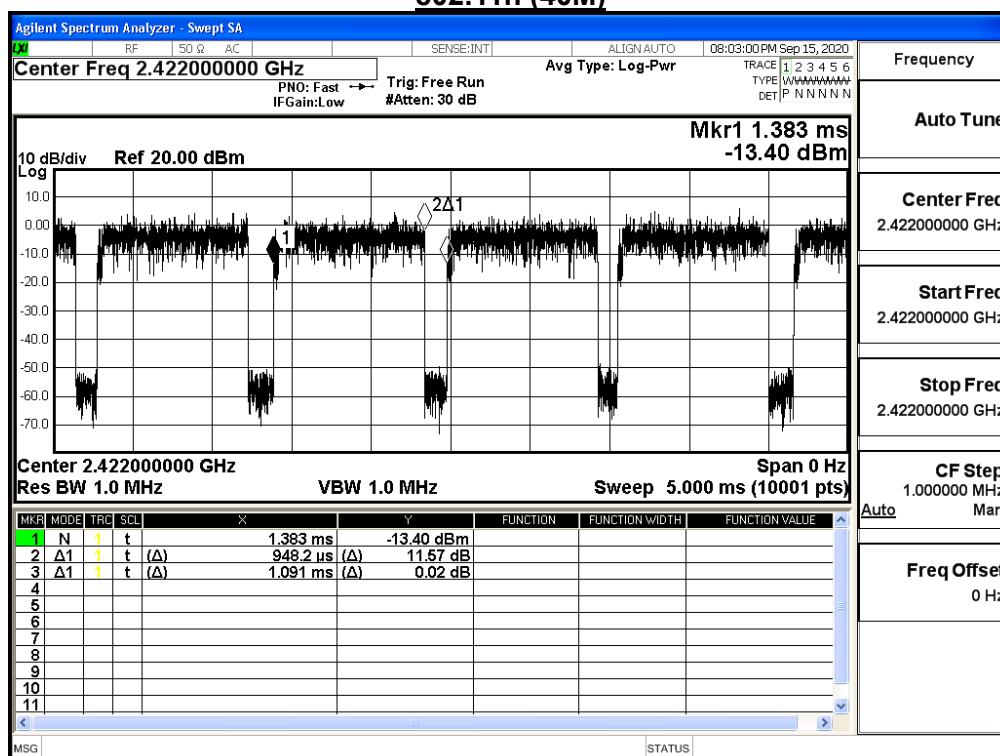
802.11g



802.11n (20M)

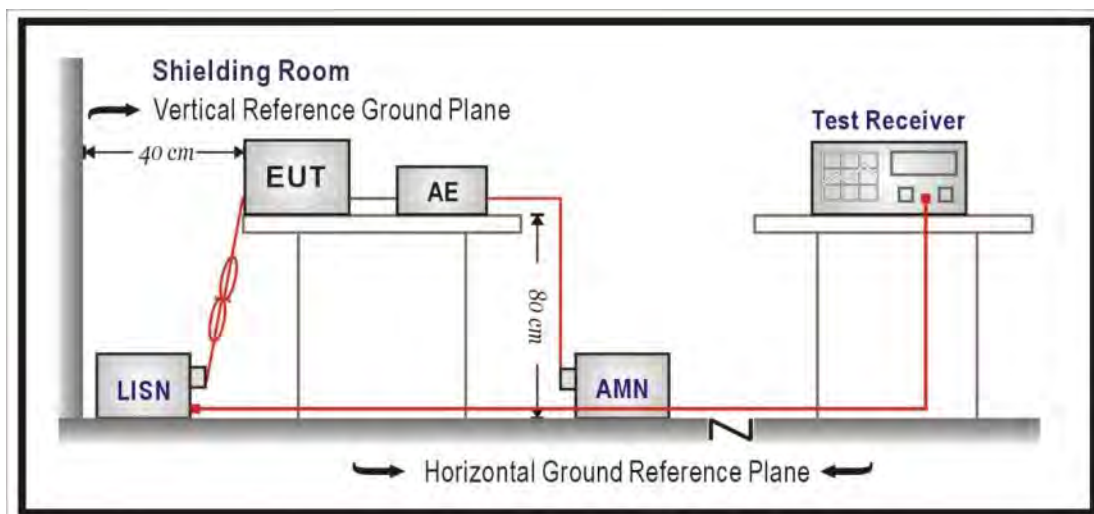


802.11n (40M)



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 was setup according to ANSI C63.4: 2013 and tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

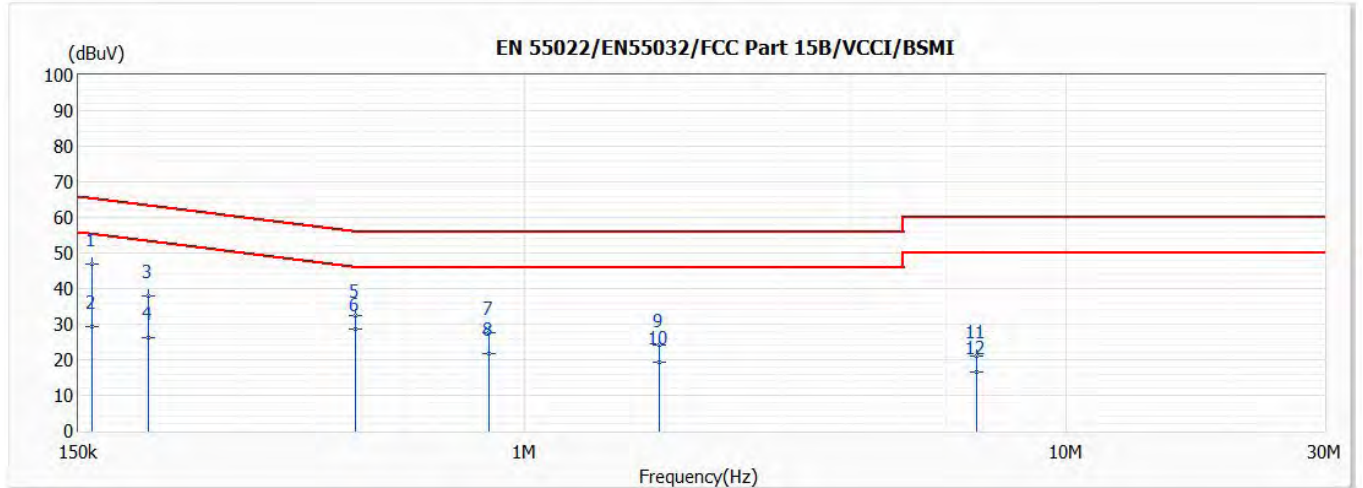
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and RSS-247.

2.5. Test Result

Model No	RB924i-2nD-BT5&BG77	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/3/25
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Scott Chang
Phase	L	Temperature (°C)	21.5
Test Condition	802.11g_Ant0+1Ch 11,2.462G_BW20M	Humidity (%RH)	56

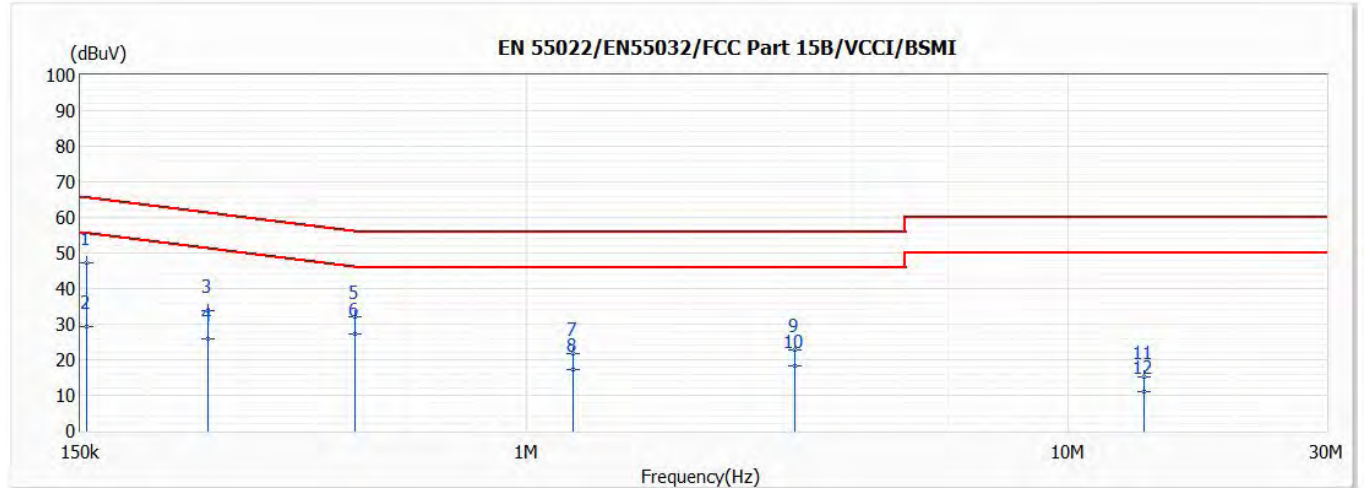


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.159	46.90	65.54	-18.64	37.25	9.65	QP
2	0.159	29.38	55.54	-26.16	19.73	9.65	AV
3	0.202	37.92	63.53	-25.60	28.28	9.65	QP
4	0.202	26.09	53.53	-27.43	16.45	9.65	AV
5	0.487	32.33	56.22	-23.89	22.64	9.69	QP
*6	0.487	28.69	46.22	-17.54	19.00	9.69	AV
7	0.861	27.62	56.00	-28.38	17.90	9.73	QP
8	0.861	21.59	46.00	-24.41	11.87	9.73	AV
9	1.768	24.12	56.00	-31.88	14.34	9.78	QP
10	1.768	19.31	46.00	-26.69	9.54	9.78	AV
11	6.837	20.99	60.00	-39.01	10.98	10.00	QP
12	6.837	16.67	50.00	-33.33	6.66	10.00	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RB924i-2nD-BT5&BG77	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/3/25
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Scott Chang
Phase	N	Temperature (°C)	21.5
Test Condition	802.11g_Ant0+1Ch 11,2.462G_BW20M	Humidity (%RH)	56

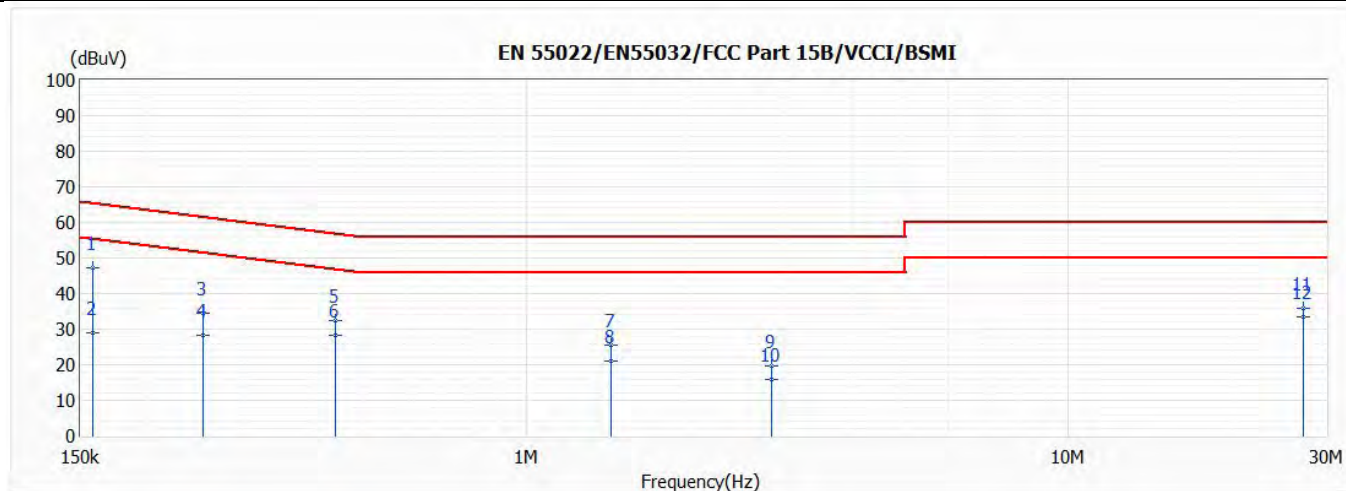


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.154	47.37	65.80	-18.43	37.73	9.64	QP
2	0.154	29.46	55.80	-26.34	19.82	9.64	AV
3	0.257	33.80	61.52	-27.72	24.16	9.64	QP
4	0.257	25.90	51.52	-25.62	16.25	9.64	AV
5	0.481	32.01	56.32	-24.31	22.33	9.68	QP
6	0.481	27.21	46.32	-19.11	17.53	9.68	AV
7	1.215	21.66	56.00	-34.34	11.93	9.73	QP
8	1.215	17.09	46.00	-28.91	7.36	9.73	AV
9	3.128	22.84	56.00	-33.16	13.00	9.84	QP
10	3.128	18.42	46.00	-27.58	8.58	9.84	AV
11	13.837	15.03	60.00	-44.97	4.74	10.30	QP
12	13.837	11.13	50.00	-38.87	0.83	10.30	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RB924i-2nD-BT5&BG77	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/3/25
Test Mode	Mode 2: Transmit PoE Mode	Engineer	Scott Chang
Phase	L	Temperature (°C)	21.5
Note	802.11g_Ant0+1Ch 11,2.462G_BW20M	Humidity (%RH)	56

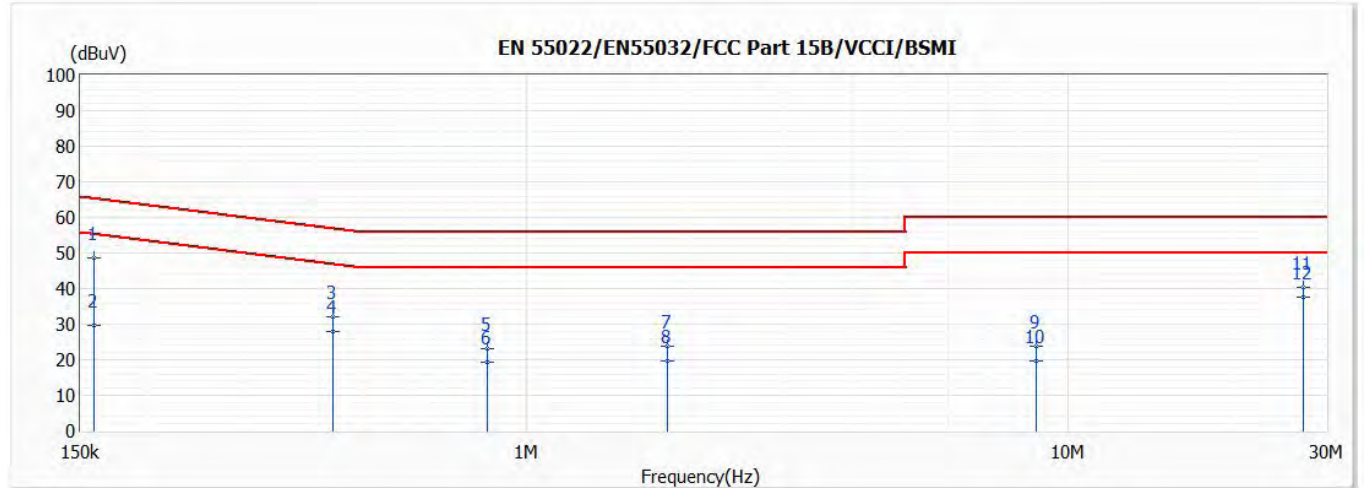


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.158	47.13	65.55	-18.42	37.48	9.65	QP
2	0.158	29.11	55.55	-26.43	19.46	9.65	AV
3	0.253	34.63	61.66	-27.03	24.98	9.65	QP
4	0.253	28.38	51.66	-23.27	18.73	9.65	AV
5	0.443	32.49	57.01	-24.52	22.81	9.68	QP
6	0.443	28.28	47.01	-18.74	18.59	9.68	AV
7	1.428	25.41	56.00	-30.59	15.65	9.76	QP
8	1.428	21.18	46.00	-24.82	11.42	9.76	AV
9	2.827	19.53	56.00	-36.47	9.70	9.83	QP
10	2.827	15.70	46.00	-30.30	5.87	9.83	AV
11	27.220	35.94	60.00	-24.06	25.48	10.46	QP
*12	27.220	33.41	50.00	-16.59	22.95	10.46	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RB924i-2nD-BT5&BG77	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/3/25
Test Mode	Mode 2: Transmit PoE Mode	Engineer	Scott Chang
Phase	N	Temperature (°C)	21.5
Note	802.11g_Ant0+1Ch 11,2.462G_BW20M	Humidity (%RH)	56



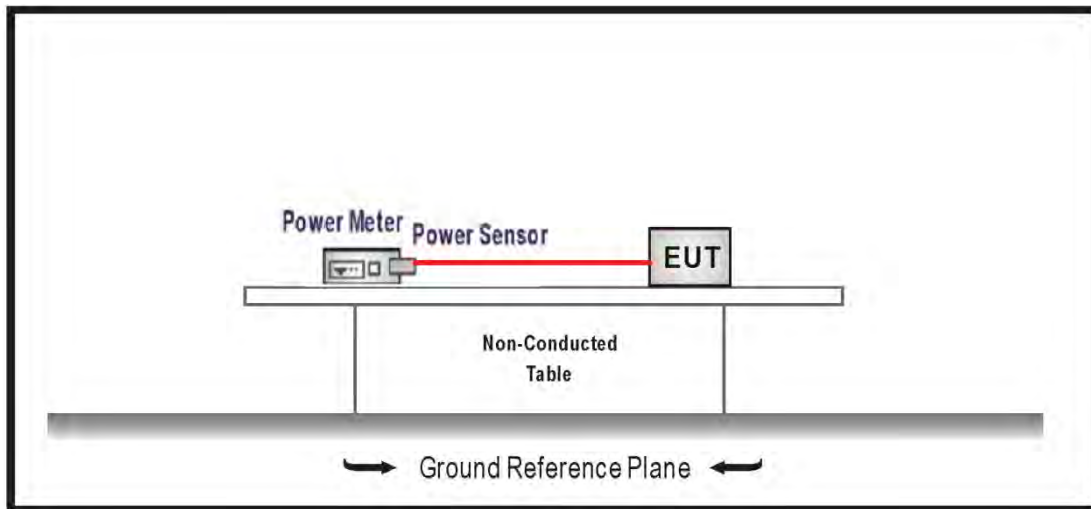
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.159	48.46	65.53	-17.07	38.82	9.64	QP
2	0.159	29.82	55.53	-25.71	20.19	9.64	AV
3	0.438	32.11	57.11	-25.00	22.43	9.67	QP
4	0.438	27.93	47.11	-19.17	18.26	9.67	AV
5	0.845	23.26	56.00	-32.74	13.55	9.71	QP
6	0.845	19.48	46.00	-26.52	9.77	9.71	AV
7	1.823	23.70	56.00	-32.30	13.93	9.77	QP
8	1.823	19.81	46.00	-26.19	10.04	9.77	AV
9	8.717	23.71	60.00	-36.29	13.62	10.09	QP
10	8.717	19.63	50.00	-30.37	9.54	10.09	AV
11	27.159	40.40	60.00	-19.60	29.72	10.68	QP
*12	27.159	37.68	50.00	-12.32	27.00	10.68	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was tested according to DTS test procedure section 8.3.1.3 of KDB 558074 D01 v05r02 & Subclause 11.9.1.3 of ANSI C63.10 Measurement to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and RSS-247.

3.5. Test Result

Product	KNOT		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit Adapter Mode		
Date of Test	2021/01/30	Test Site	SR12-H
Temperature (°C)	20.0	Humidity (%RH)	66.0

IEEE 802.11b

Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
1	2412	6.180	6.370	9.286	≤30
6	2437	6.420	5.910	9.183	≤30
11	2462	7.050	6.620	9.851	≤30

The worst emission of data rate is 1Mbps

IEEE 802.11g

Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
1	2412	11.230	11.650	14.455	≤30
6	2437	11.580	11.320	14.462	≤30
11	2462	12.190	12.080	15.146	≤30

The worst emission of data rate is 6Mbps

IEEE 802.11n(20M)

Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
1	2412	10.850	11.720	14.317	≤30
6	2437	11.080	11.380	14.243	≤30
11	2462	11.620	11.320	14.483	≤30

The worst emission of data rate is MCS 0

IEEE 802.11n(40M)

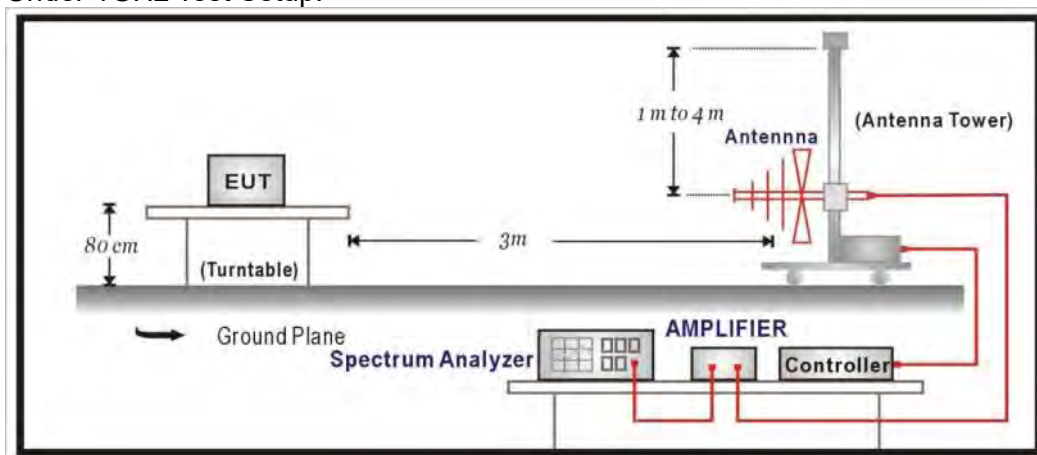
Channel No.	Frequency (MHz)	Maximum peak conducted output power (dBm)			Limit (dBm)
		Ant. 0	Ant. 1	Total	
3	2422	9.880	10.250	13.079	≤30
6	2437	12.850	13.140	16.008	≤30
9	2452	9.380	9.150	12.277	≤30

The worst emission of data rate is MCS 0

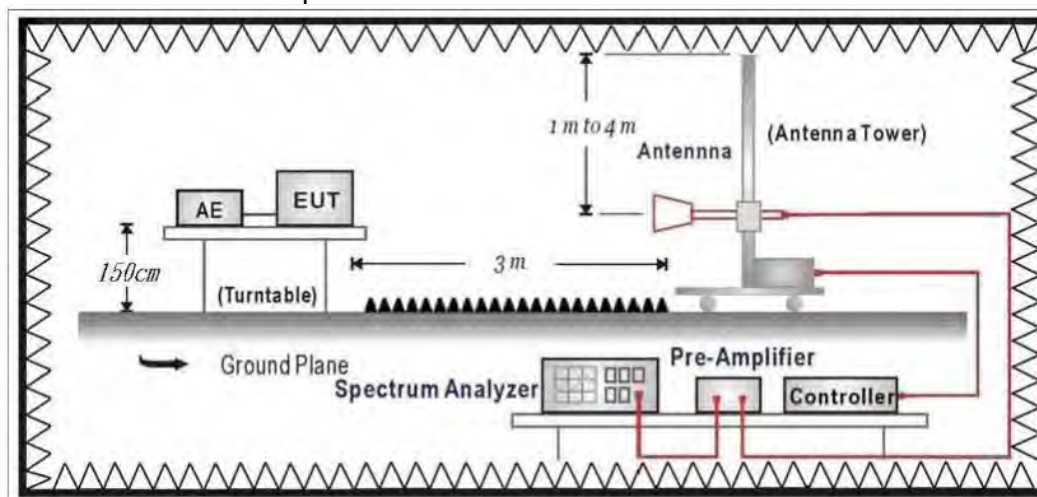
4. Radiated Emission

4.1. 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 @3m	dBuV/m@3m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.3. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 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 (under 1GHz) or 1.5 meter above ground (above 1GHz). 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 below or equal 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.

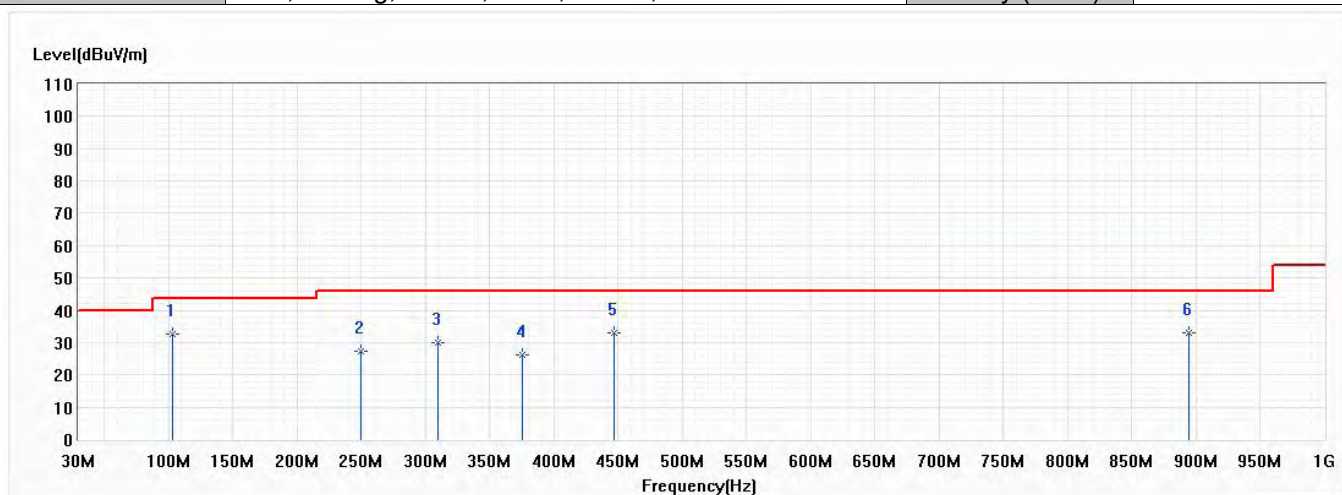
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and RSS-247.

4.5. Test Result

30MHz-1GHz Spurious

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/25
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

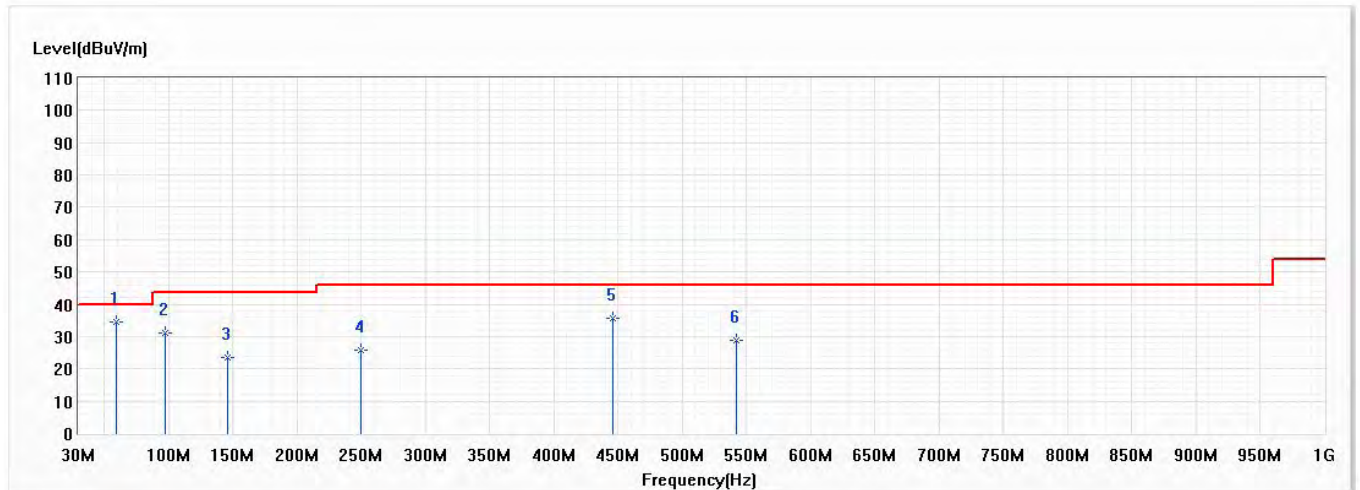


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	103.235	32.81	43.50	-10.69	36.83	-4.02	QP
2	249.705	27.45	46.00	-18.55	29.54	-2.09	QP
3	310.330	30.00	46.00	-16.00	30.88	-0.88	QP
4	375.320	26.30	46.00	-19.70	25.06	1.24	QP
5	446.615	33.15	46.00	-12.85	30.27	2.88	QP
6	894.755	33.12	46.00	-12.88	24.61	8.51	QP

Note:

1. All reading levels is Quasi-Peak value.
2. " * ", means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/25
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

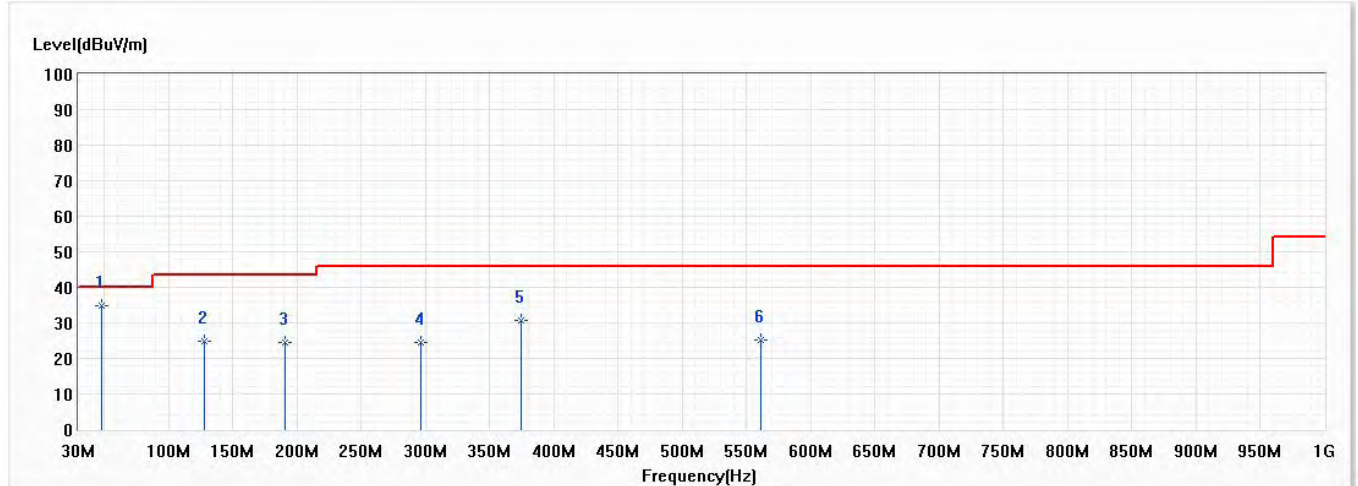


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	59.585	34.67	40.00	-5.33	43.05	-8.38	QP
2	97.415	31.16	43.50	-12.34	36.06	-4.90	QP
3	145.915	23.46	43.50	-20.04	26.72	-3.26	QP
4	250.190	25.66	46.00	-20.34	27.74	-2.08	QP
5	445.645	35.72	46.00	-10.28	32.85	2.87	QP
6	541.675	28.88	46.00	-17.12	24.57	4.31	QP

Note:

1. All reading levels is Quasi-Peak value.
2. " * ", means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/2/17
Test Mode	Mode 2: Transmit PoE Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

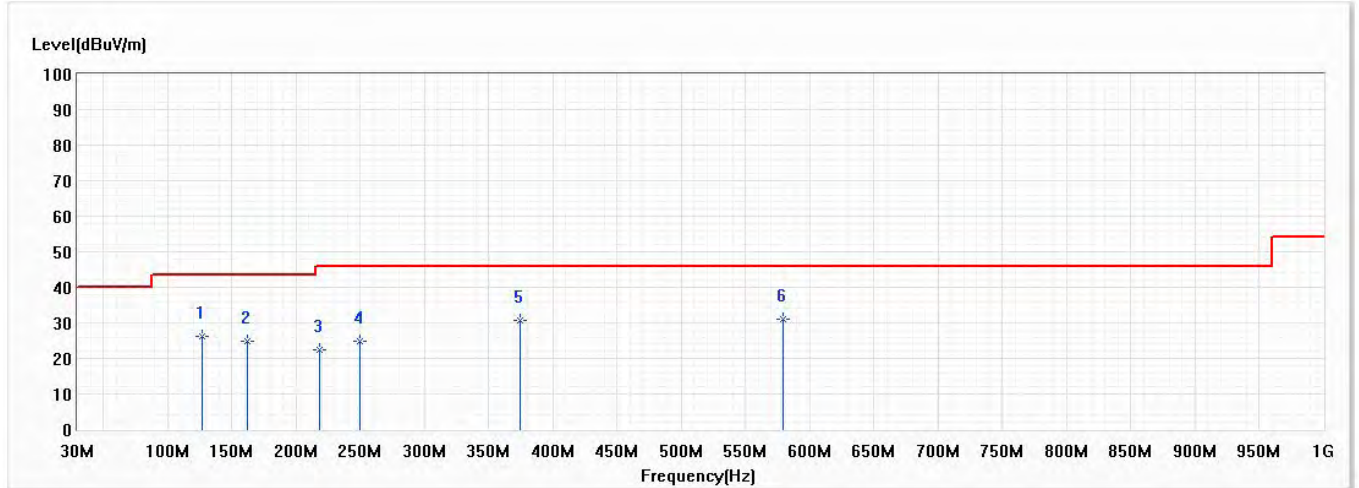


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	47.945	34.77	40.00	-5.23	39.19	-4.42	QP
2	127.970	24.84	43.50	-18.66	27.43	-2.59	QP
3	190.535	24.38	43.50	-19.12	29.52	-5.14	QP
4	296.750	24.37	46.00	-21.63	25.65	-1.28	QP
5	374.835	30.60	46.00	-15.40	29.39	1.21	QP
6	561.560	25.34	46.00	-20.66	20.78	4.56	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/2/17
Test Mode	Mode 2: Transmit PoE Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0



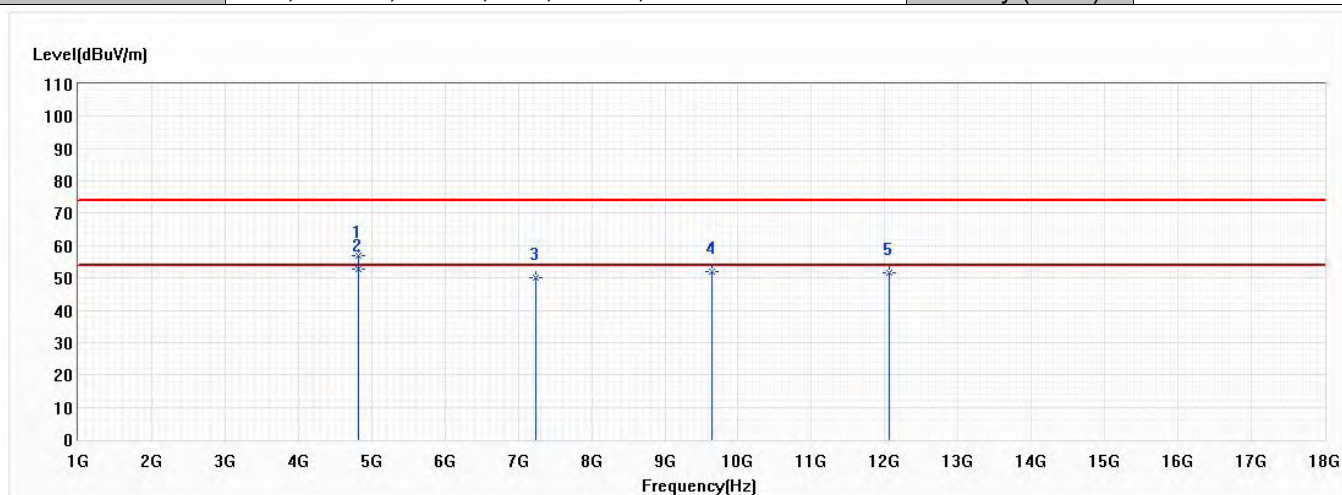
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	127.000	26.14	43.50	-17.36	28.69	-2.55	QP
2	161.920	24.90	43.50	-18.60	29.17	-4.27	QP
3	218.665	22.51	46.00	-23.49	26.31	-3.80	QP
4	249.705	24.76	46.00	-21.24	26.85	-2.09	QP
5	374.835	30.82	46.00	-15.18	29.61	1.21	QP
* 6	579.020	31.05	46.00	-14.95	26.25	4.80	QP

Note:

1. All reading levels is Quasi-Peak value.
2. " * ", means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Above 1GHz Spurious

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11b,Ant0+1,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

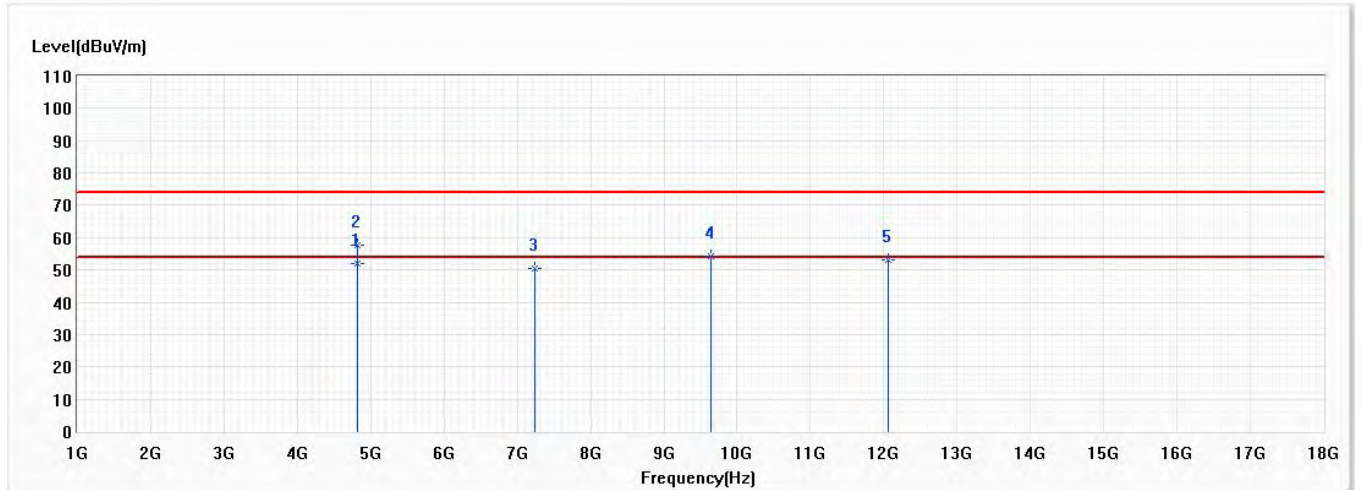


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4824.000	56.71	74.00	-17.29	68.69	-11.98	PK
* 2	4824.000	52.81	54.00	-1.19	64.79	-11.98	AV
3	7236.000	49.99	74.00	-24.01	54.59	-4.60	PK
4	9648.000	52.15	74.00	-21.85	53.46	-1.31	PK
5	12060.000	51.55	74.00	-22.45	48.80	2.75	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11b,Ant0+1,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

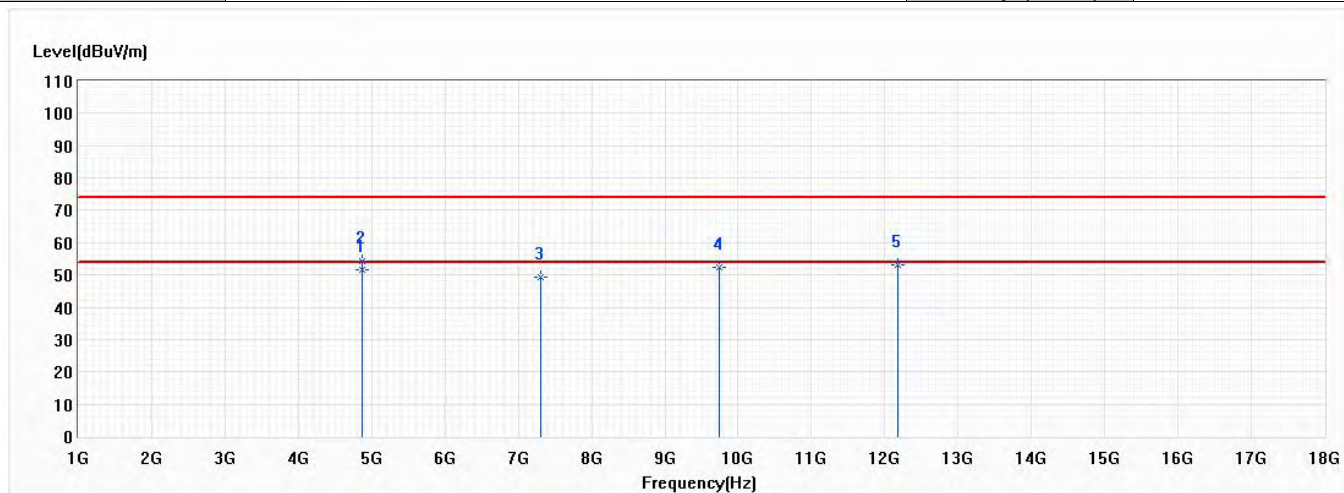


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4824.000	52.01	54.00	-1.99	63.99	-11.98	AV
2	4824.000	57.79	74.00	-16.21	69.77	-11.98	PK
3	7236.000	50.53	74.00	-23.47	55.13	-4.60	PK
4	9648.000	54.08	74.00	-19.92	55.39	-1.31	PK
5	12060.000	52.94	74.00	-21.06	50.19	2.75	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11b,Ant0+1,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

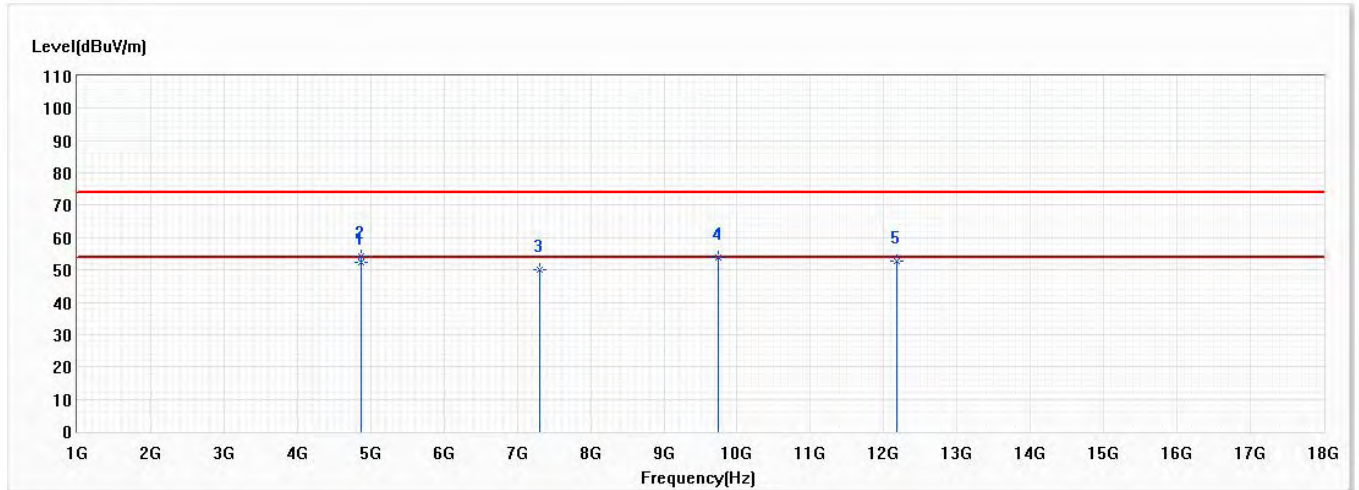


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	51.56	54.00	-2.44	63.40	-11.84	AV
2	4874.000	54.42	74.00	-19.58	66.26	-11.84	PK
3	7311.000	49.46	74.00	-24.54	53.84	-4.38	PK
4	9748.000	52.17	74.00	-21.83	53.44	-1.27	PK
5	12185.000	52.92	74.00	-21.08	50.32	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11b,Ant0+1,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

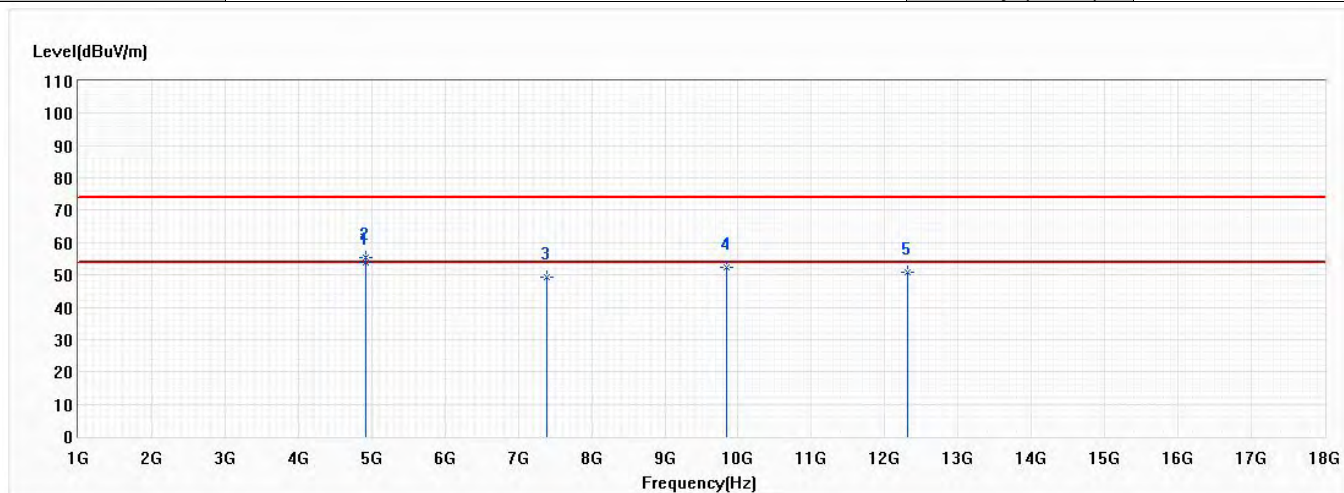


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	52.38	54.00	-1.62	64.22	-11.84	AV
2	4874.000	54.35	74.00	-19.65	66.19	-11.84	PK
3	7311.000	50.25	74.00	-23.75	54.63	-4.38	PK
4	9748.000	53.85	74.00	-20.15	55.12	-1.27	PK
5	12185.000	52.79	74.00	-21.21	50.19	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11b,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

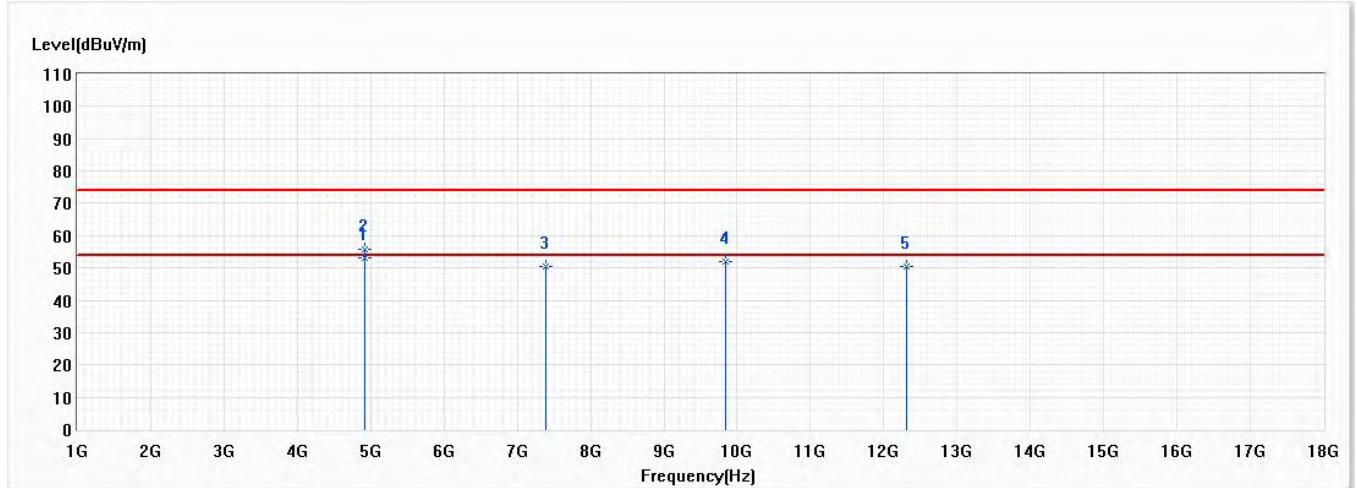


No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
* 1	4924.000	53.93	54.00	-0.07	65.63	-11.70	AV
2	4924.000	55.30	74.00	-18.70	67.00	-11.70	PK
3	7386.000	49.31	74.00	-24.69	53.48	-4.17	PK
4	9848.000	52.21	74.00	-21.79	53.43	-1.22	PK
5	12310.000	50.95	74.00	-23.05	48.49	2.46	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11b,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

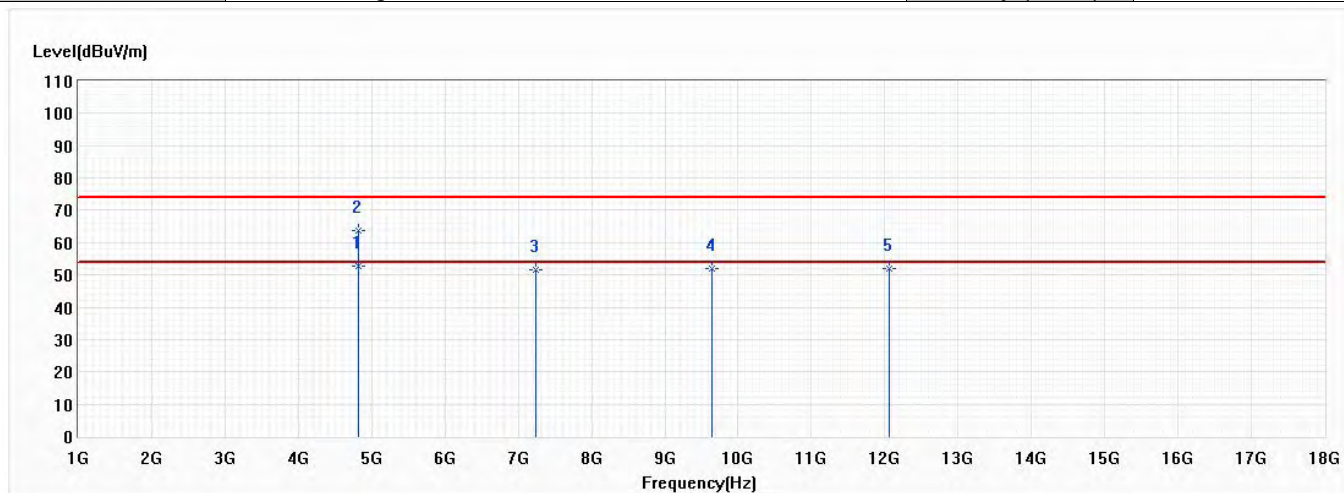


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4924.000	53.17	54.00	-0.83	64.87	-11.70	AV
2	4924.000	55.59	74.00	-18.41	67.29	-11.70	PK
3	7386.000	50.49	74.00	-23.51	54.66	-4.17	PK
4	9848.000	51.78	74.00	-22.22	53.00	-1.22	PK
5	12310.000	50.27	74.00	-23.73	47.81	2.46	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

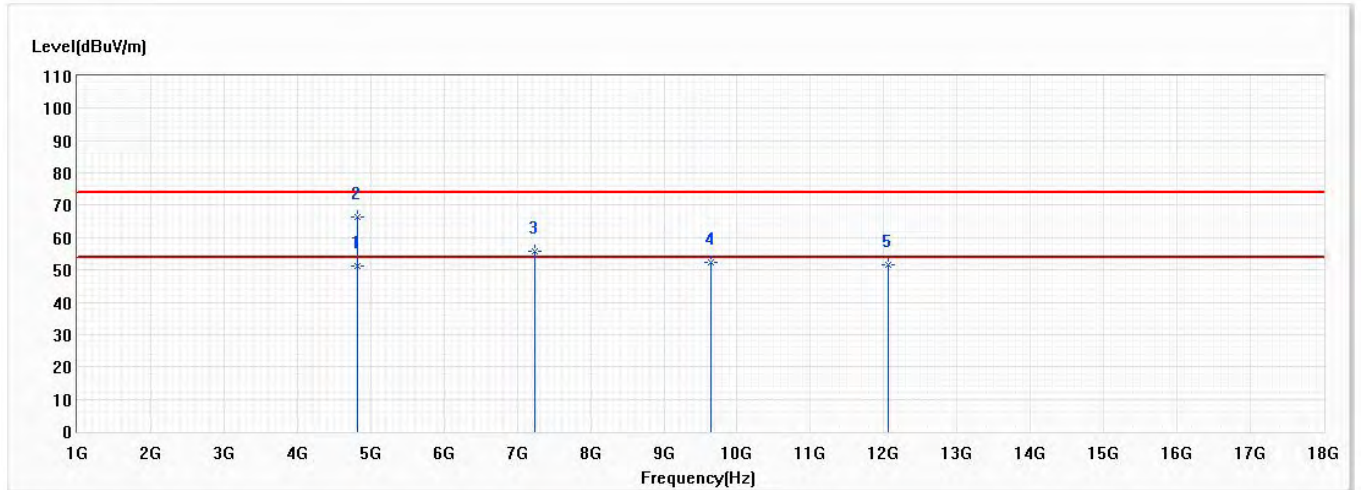


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4824.000	52.79	54.00	-1.21	64.77	-11.98	AV
2	4824.000	63.90	74.00	-10.10	75.88	-11.98	PK
3	7236.000	51.72	74.00	-22.28	56.32	-4.60	PK
4	9648.000	52.02	74.00	-21.98	53.33	-1.31	PK
5	12060.000	52.04	74.00	-21.96	49.29	2.75	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

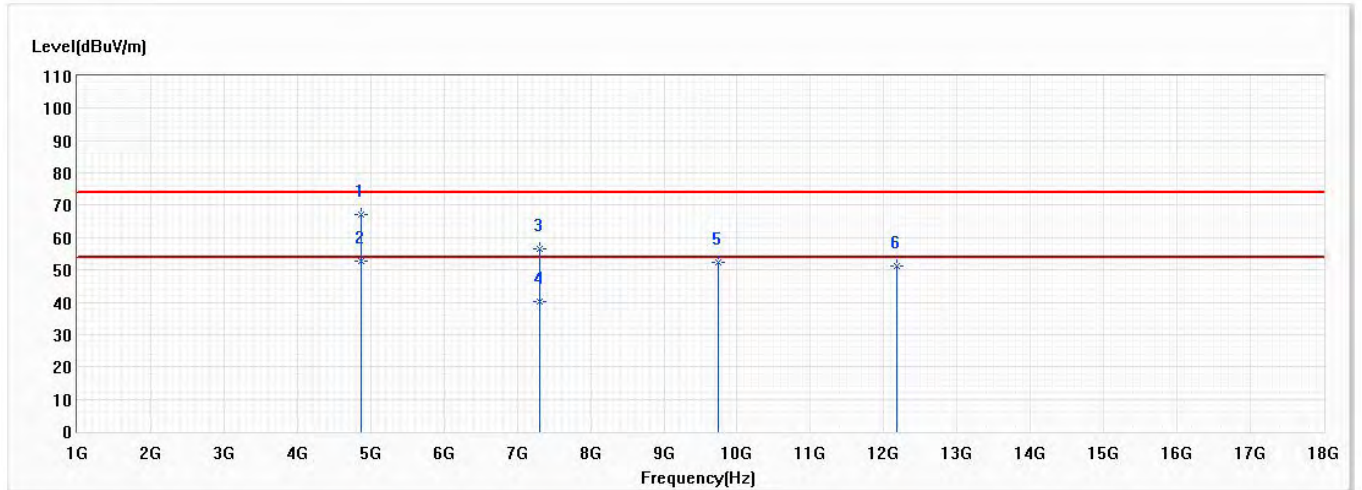


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4824.000	51.24	54.00	-2.76	63.22	-11.98	AV
2	4824.000	66.32	74.00	-7.68	78.30	-11.98	PK
3	7236.000	55.57	74.00	-18.43	60.17	-4.60	PK
4	9648.000	52.51	74.00	-21.49	53.82	-1.31	PK
5	12060.000	51.49	74.00	-22.51	48.74	2.75	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

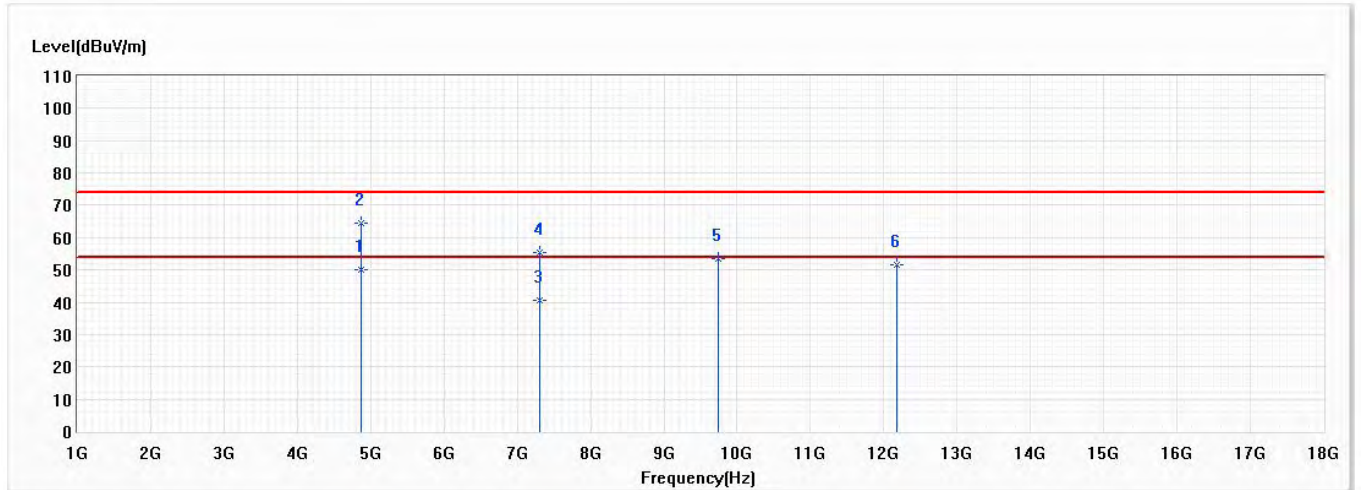


No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	4874.000	66.96	74.00	-7.04	78.80	-11.84	PK
* 2	4874.000	52.56	54.00	-1.44	64.40	-11.84	AV
3	7311.000	56.58	74.00	-17.42	60.96	-4.38	PK
4	7311.000	40.19	54.00	-13.81	44.57	-4.38	AV
5	9748.000	52.53	74.00	-21.47	53.80	-1.27	PK
6	12185.000	51.22	74.00	-22.78	48.62	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

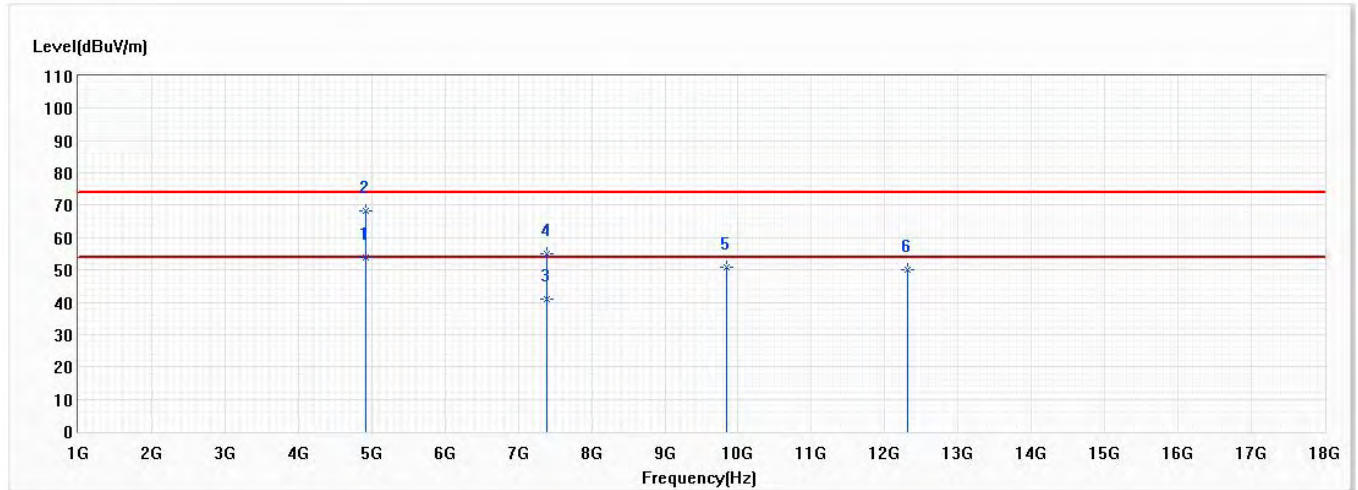


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	50.19	54.00	-3.81	62.03	-11.84	AV
2	4874.000	64.63	74.00	-9.37	76.47	-11.84	PK
3	7311.000	40.56	54.00	-13.44	44.94	-4.38	AV
4	7311.000	55.55	74.00	-18.45	59.93	-4.38	PK
5	9748.000	53.67	74.00	-20.33	54.94	-1.27	PK
6	12185.000	51.55	74.00	-22.45	48.95	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

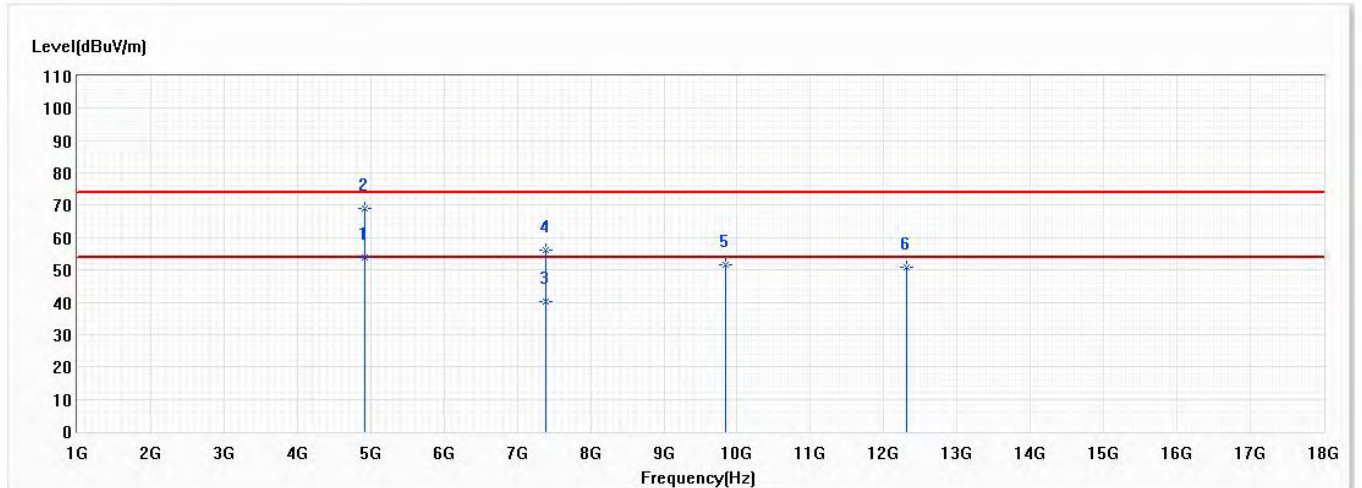


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4924.000	53.99	54.00	-0.01	65.69	-11.70	AV
2	4924.000	68.10	74.00	-5.90	79.80	-11.70	PK
3	7386.000	40.99	54.00	-13.01	45.16	-4.17	AV
4	7386.000	55.13	74.00	-18.87	59.30	-4.17	PK
5	9848.000	50.73	74.00	-23.27	51.95	-1.22	PK
6	12310.000	49.95	74.00	-24.05	47.49	2.46	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11g,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

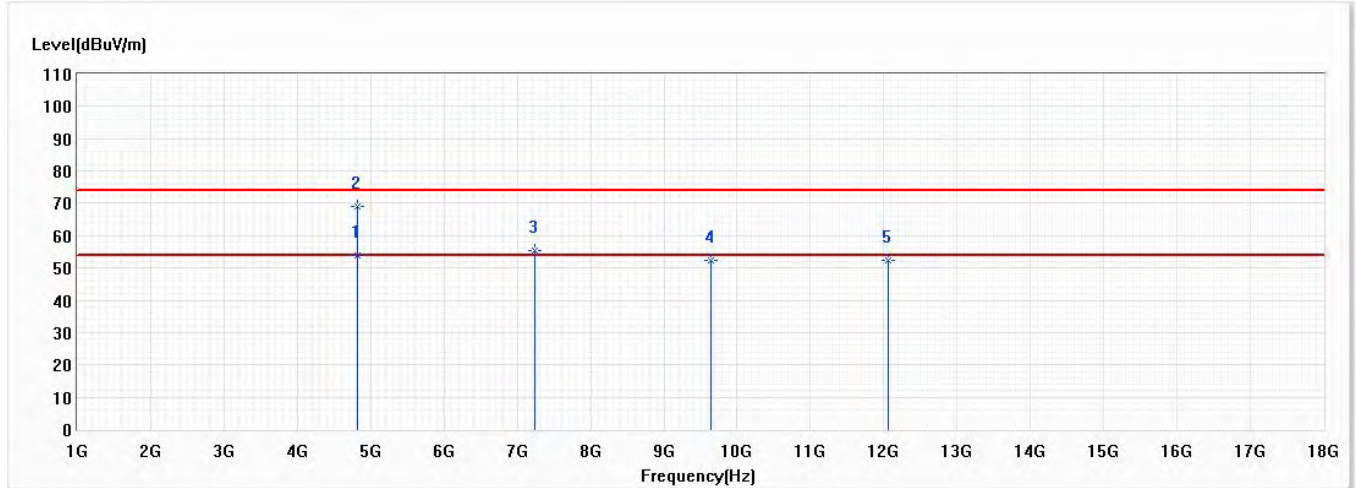


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4924.000	53.68	54.00	-0.32	65.38	-11.70	AV
2	4924.000	68.87	74.00	-5.13	80.57	-11.70	PK
3	7386.000	40.02	54.00	-13.98	44.19	-4.17	AV
4	7386.000	56.27	74.00	-17.73	60.44	-4.17	PK
5	9848.000	51.52	74.00	-22.48	52.74	-1.22	PK
6	12310.000	50.77	74.00	-23.23	48.31	2.46	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

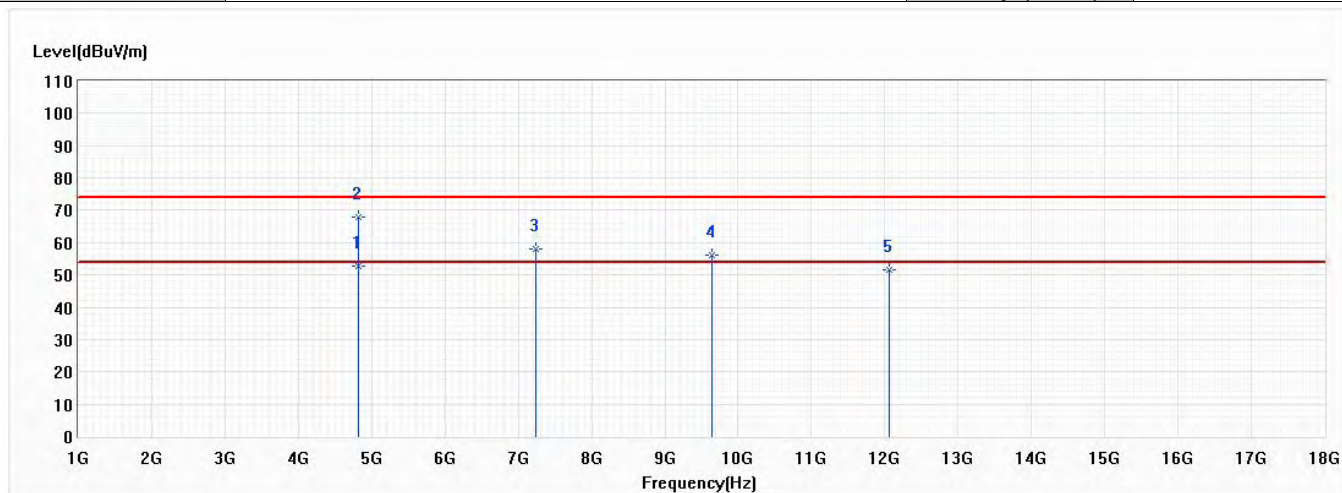


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4824.000	53.84	54.00	-0.16	65.82	-11.98	AV
2	4824.000	69.10	74.00	-4.90	81.08	-11.98	PK
3	7236.000	55.41	74.00	-18.59	60.01	-4.60	PK
4	9648.000	52.21	74.00	-21.79	53.52	-1.31	PK
5	12060.000	52.19	74.00	-21.81	49.44	2.75	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 1,2.412G,BW20M	Humidity (%RH)	55.0

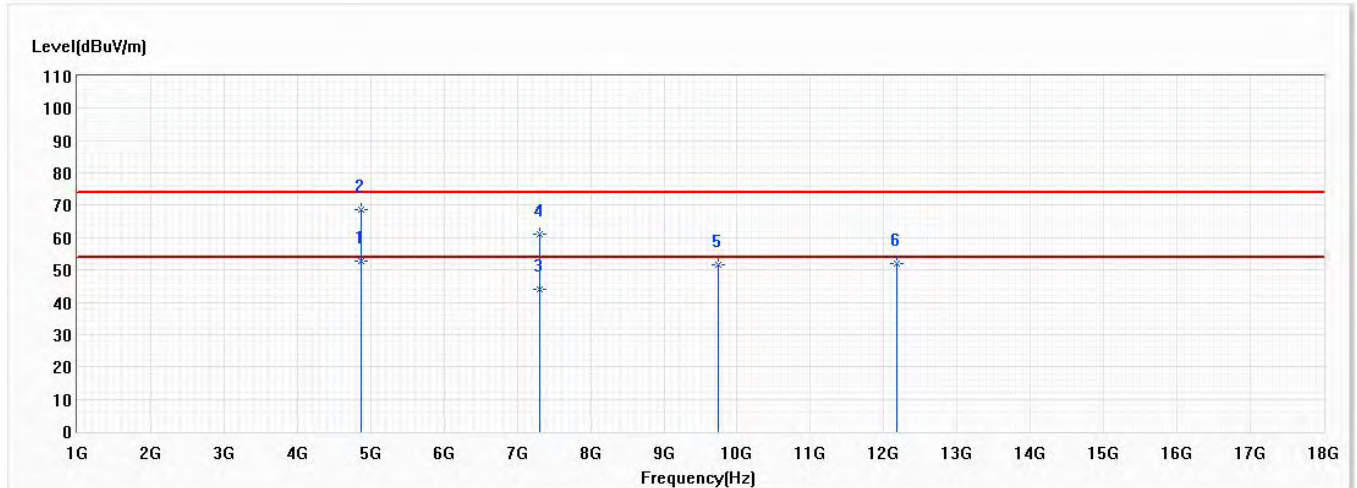


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4824.000	52.66	54.00	-1.34	64.64	-11.98	AV
2	4824.000	67.94	74.00	-6.06	79.92	-11.98	PK
3	7236.000	57.91	74.00	-16.09	62.51	-4.60	PK
4	9648.000	56.02	74.00	-17.98	57.33	-1.31	PK
5	12060.000	51.75	74.00	-22.25	49.00	2.75	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

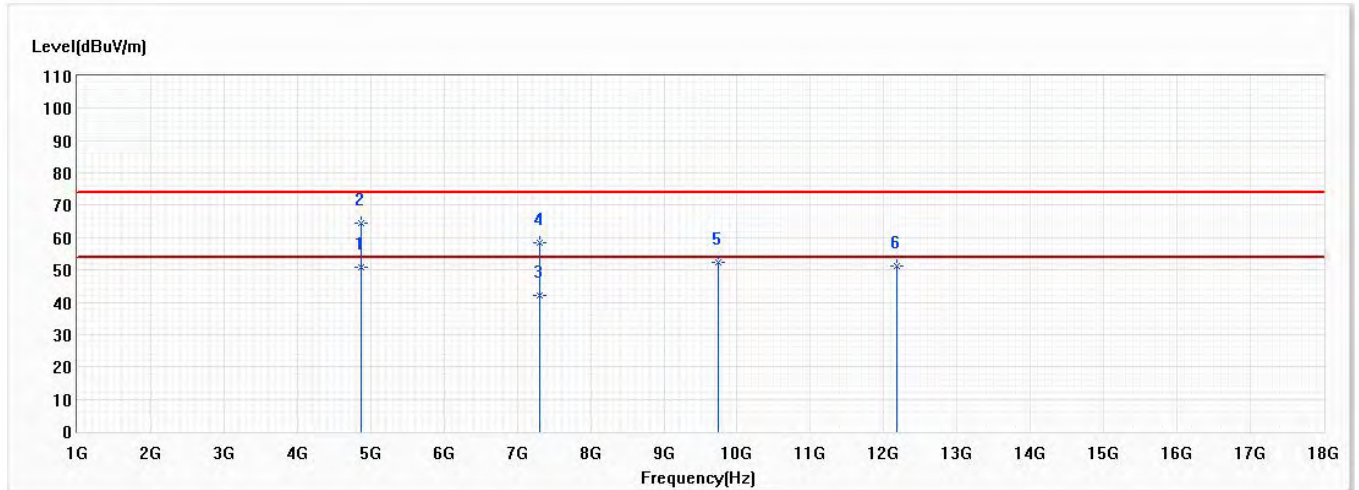


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	52.75	54.00	-1.25	64.59	-11.84	AV
2	4874.000	68.56	74.00	-5.44	80.40	-11.84	PK
3	7311.000	44.02	54.00	-9.98	48.40	-4.38	AV
4	7311.000	60.98	74.00	-13.02	65.36	-4.38	PK
5	9748.000	51.68	74.00	-22.32	52.95	-1.27	PK
6	12185.000	52.13	74.00	-21.87	49.53	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 6,2.437G,BW20M	Humidity (%RH)	55.0

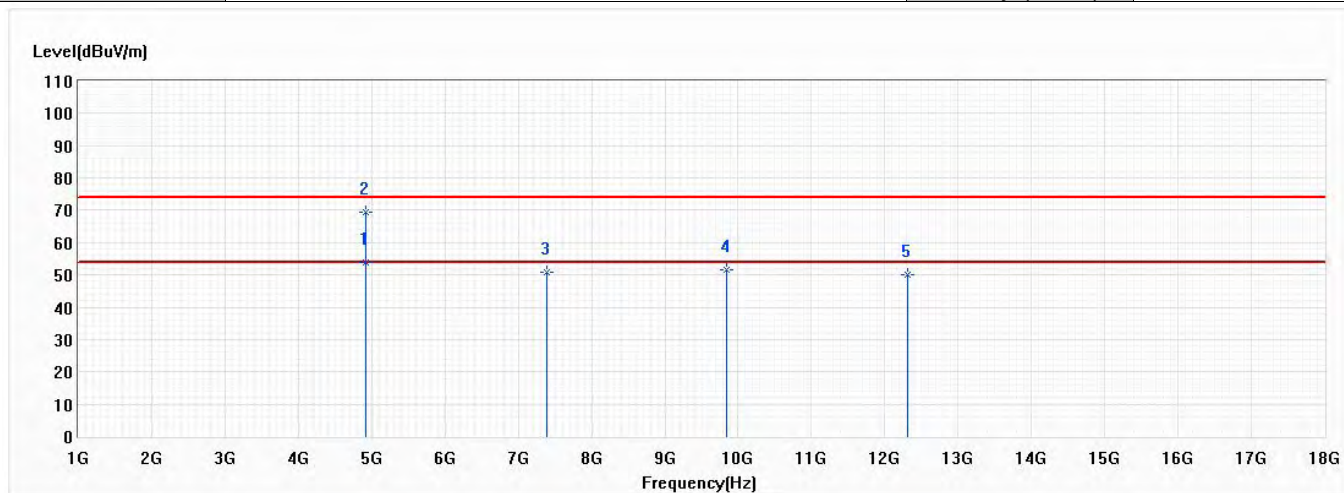


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	50.88	54.00	-3.12	62.72	-11.84	AV
2	4874.000	64.42	74.00	-9.58	76.26	-11.84	PK
3	7311.000	41.96	54.00	-12.04	46.34	-4.38	AV
4	7311.000	58.39	74.00	-15.61	62.77	-4.38	PK
5	9748.000	52.46	74.00	-21.54	53.73	-1.27	PK
6	12185.000	51.34	74.00	-22.66	48.74	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

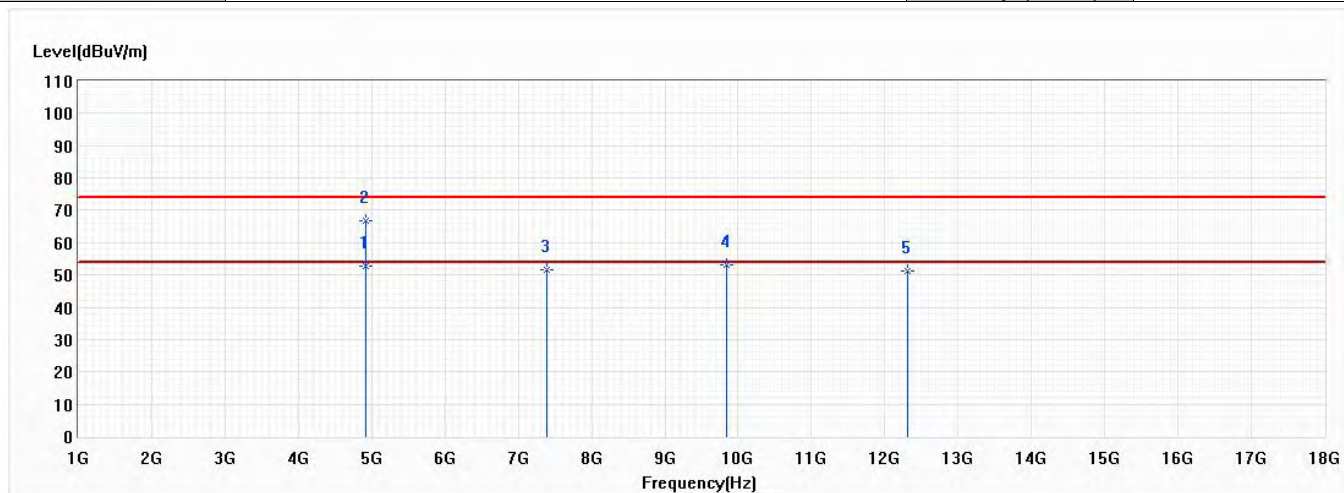


No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
* 1	4924.000	53.95	54.00	-0.05	65.65	-11.70	AV
2	4924.000	69.44	74.00	-4.56	81.14	-11.70	PK
3	7386.000	50.64	74.00	-23.36	54.81	-4.17	PK
4	9848.000	51.54	74.00	-22.46	52.76	-1.22	PK
5	12310.000	50.21	74.00	-23.79	47.75	2.46	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 11,2.462G,BW20M	Humidity (%RH)	55.0

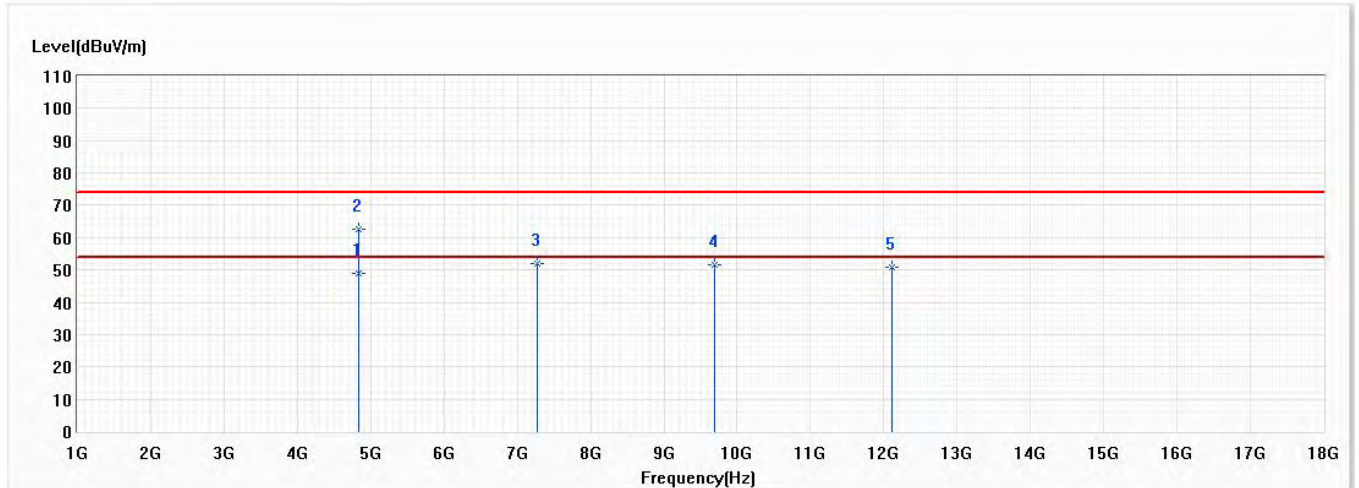


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4924.000	52.74	54.00	-1.26	64.44	-11.70	AV
2	4924.000	66.64	74.00	-7.36	78.34	-11.70	PK
3	7386.000	51.72	74.00	-22.28	55.89	-4.17	PK
4	9848.000	52.95	74.00	-21.05	54.17	-1.22	PK
5	12310.000	51.09	74.00	-22.91	48.63	2.46	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 3,2.422G,BW40M	Humidity (%RH)	55.0

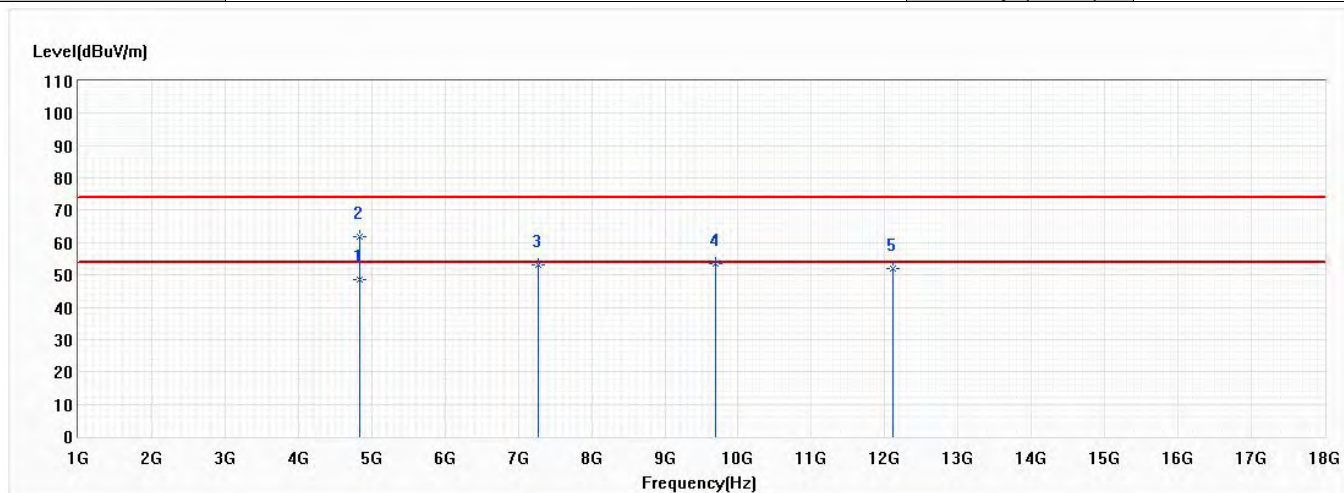


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4844.000	49.01	54.00	-4.99	60.94	-11.93	AV
2	4844.000	62.42	74.00	-11.58	74.35	-11.93	PK
3	7266.000	51.97	74.00	-22.03	56.48	-4.51	PK
4	9688.000	51.43	74.00	-22.57	52.73	-1.30	PK
5	12110.000	50.66	74.00	-23.34	47.98	2.68	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 3,2.422G,BW40M	Humidity (%RH)	55.0

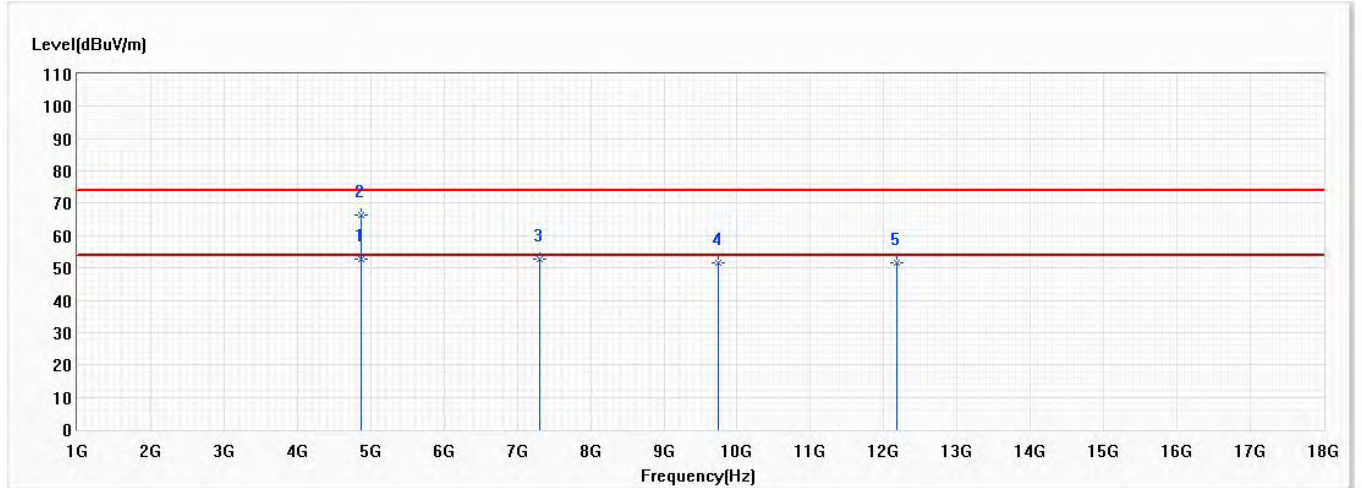


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4844.000	48.40	54.00	-5.60	60.33	-11.93	AV
2	4844.000	61.88	74.00	-12.12	73.81	-11.93	PK
3	7266.000	53.13	74.00	-20.87	57.64	-4.51	PK
4	9688.000	53.32	74.00	-20.68	54.62	-1.30	PK
5	12110.000	52.12	74.00	-21.88	49.44	2.68	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 6,2.437G,BW40M	Humidity (%RH)	55.0

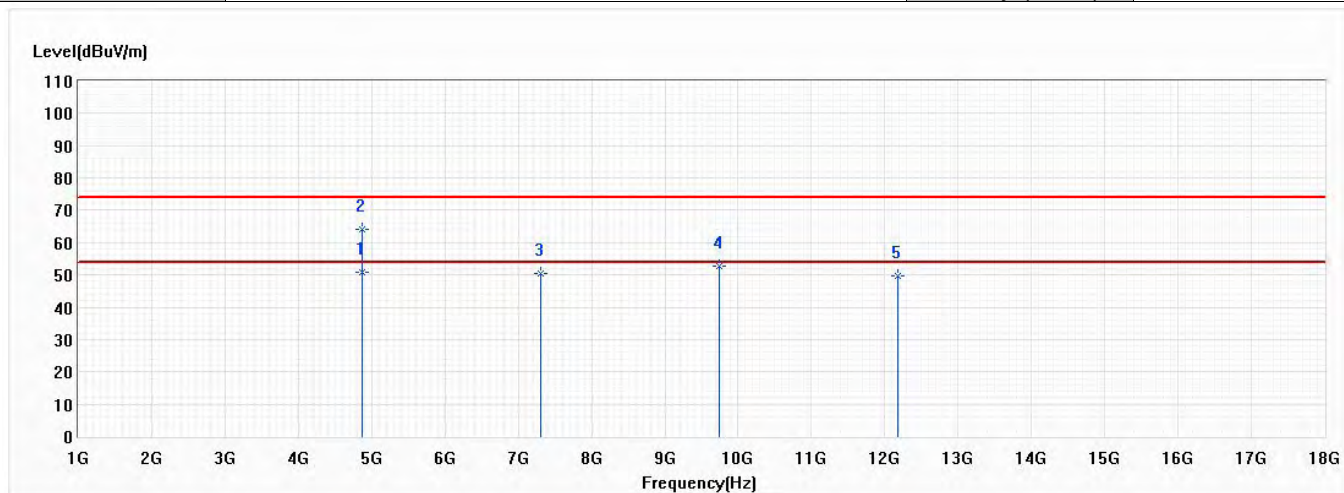


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	52.68	54.00	-1.32	64.52	-11.84	AV
2	4874.000	66.43	74.00	-7.57	78.27	-11.84	PK
3	7311.000	52.82	74.00	-21.18	57.20	-4.38	PK
4	9748.000	51.74	74.00	-22.26	53.01	-1.27	PK
5	12185.000	51.75	74.00	-22.25	49.15	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 6,2.437G,BW40M	Humidity (%RH)	55.0

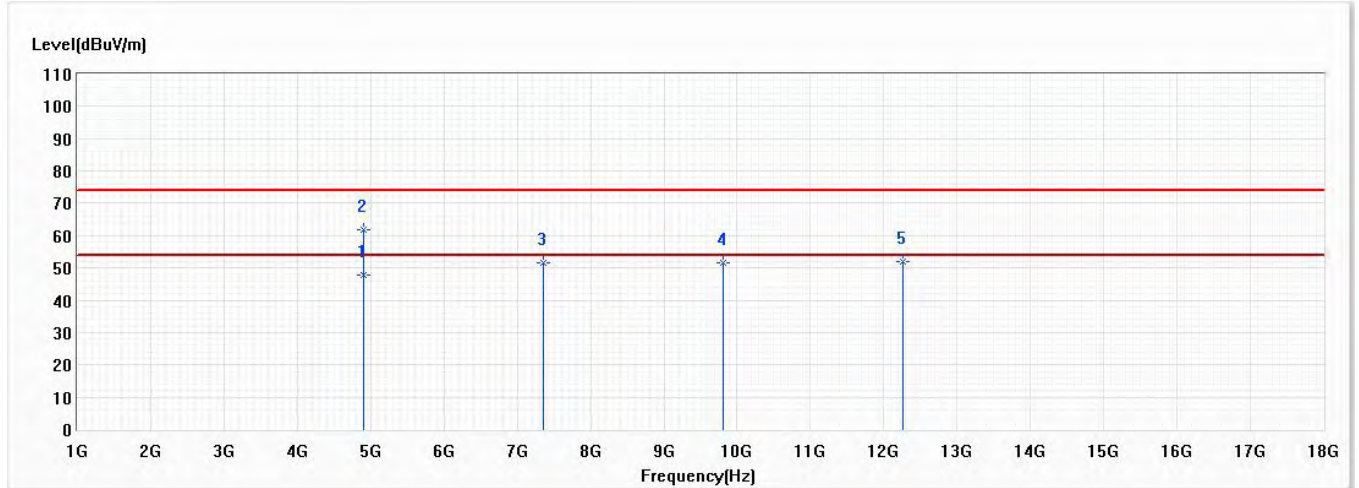


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4874.000	50.87	54.00	-3.13	62.71	-11.84	AV
2	4874.000	64.24	74.00	-9.76	76.08	-11.84	PK
3	7311.000	50.50	74.00	-23.50	54.88	-4.38	PK
4	9748.000	52.79	74.00	-21.21	54.06	-1.27	PK
5	12185.000	49.77	74.00	-24.23	47.17	2.60	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 9,2.452G,BW40M	Humidity (%RH)	55.0

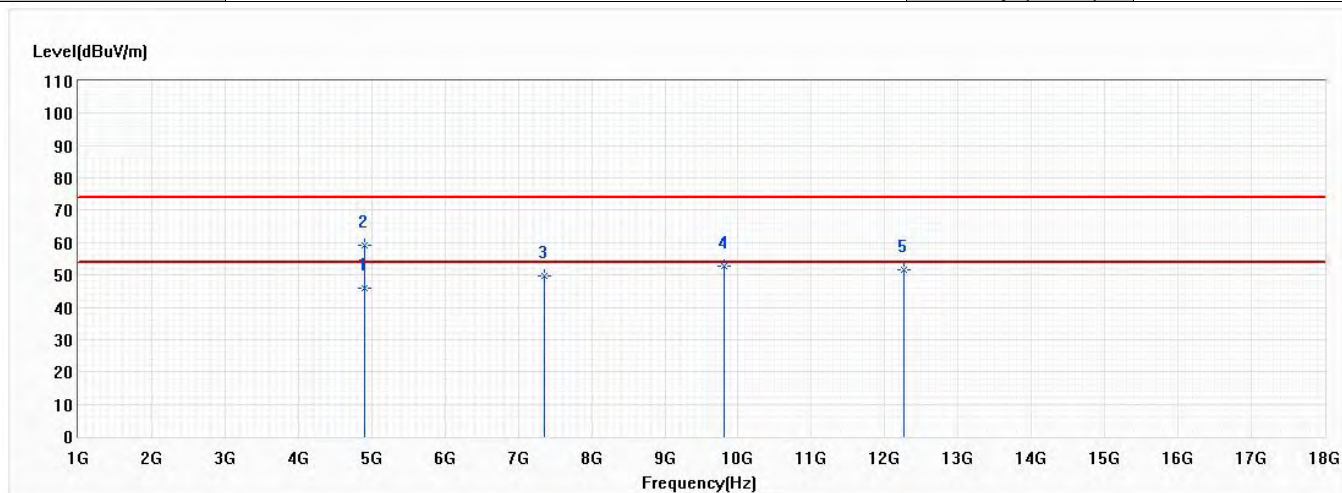


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4904.000	47.79	54.00	-6.21	59.55	-11.76	AV
2	4904.000	61.87	74.00	-12.13	73.63	-11.76	PK
3	7356.000	51.44	74.00	-22.56	55.69	-4.25	PK
4	9808.000	51.77	74.00	-22.23	53.01	-1.24	PK
5	12260.000	51.88	74.00	-22.12	49.37	2.51	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	RB924i-2nD-BT5&BG77	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2021/1/22
Test Mode	Mode 1: Transmit Adapter Mode	Engineer	Ling Chen
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	CDD,802.11n,Ant0+1,Ch 9,2.452G,BW40M	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4904.000	45.83	54.00	-8.17	57.59	-11.76	AV
2	4904.000	59.03	74.00	-14.97	70.79	-11.76	PK
3	7356.000	49.66	74.00	-24.34	53.91	-4.25	PK
4	9808.000	52.68	74.00	-21.32	53.92	-1.24	PK
5	12260.000	51.55	74.00	-22.45	49.04	2.51	PK

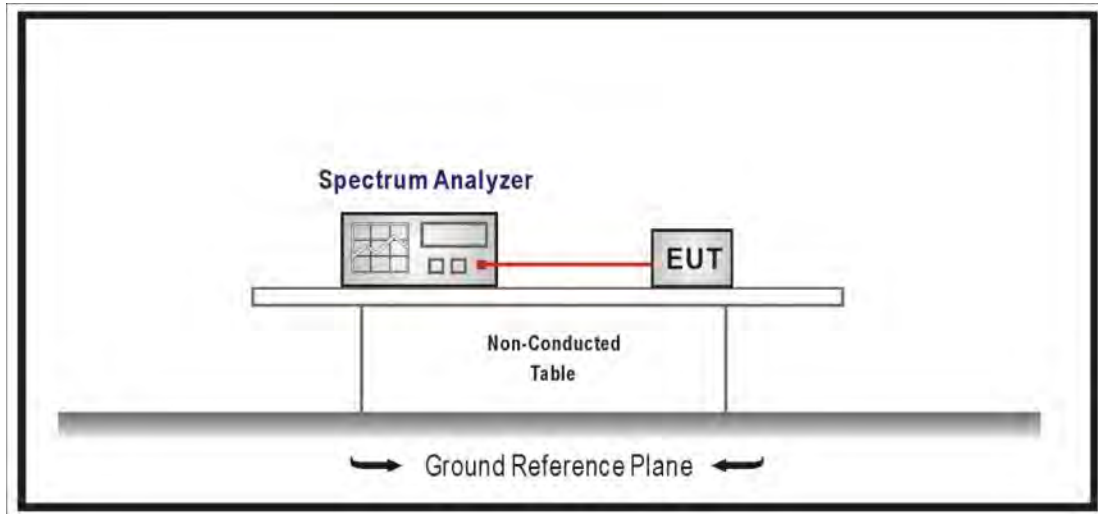
Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

5. RF antenna conducted test

5.1. Test Setup

RF Antenna 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 DTS test procedure section 11.2 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and RSS-247.

5.5. Test Result

Product	KNOT		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Adapter Mode		
Date of Test	2021/01/30	Test Site	SR12-H
Temperature (°C)	20.0	Humidity (%RH)	66.0

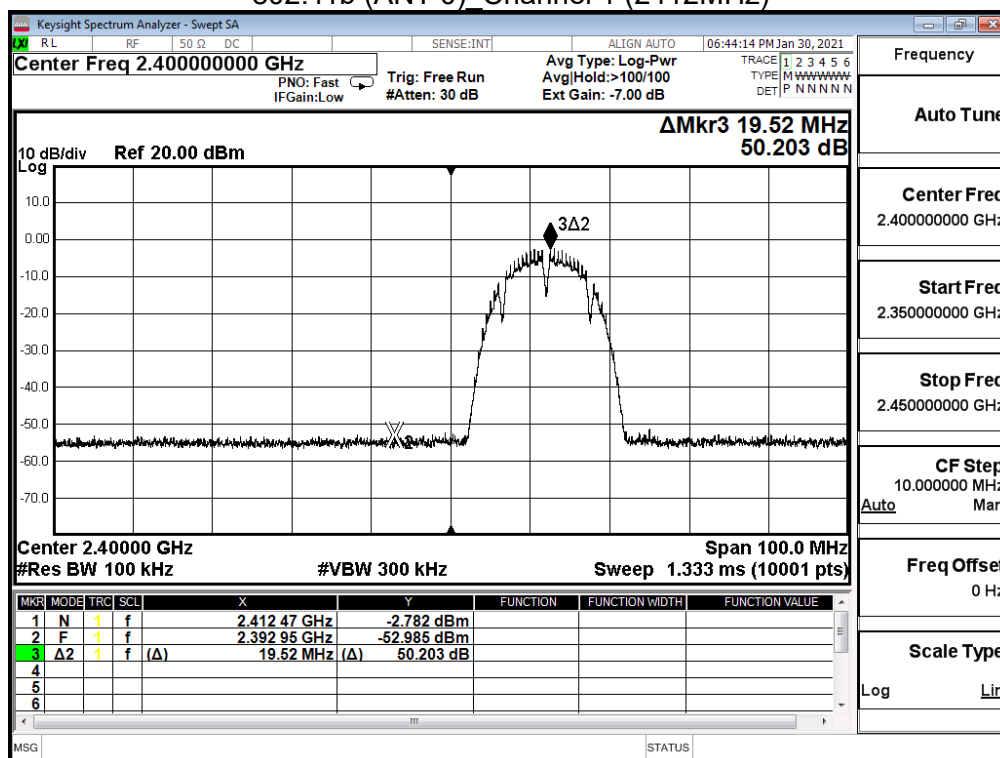
IEEE 802.11b				
Channel	Frequency (MHz)	Measure Level (dBc)		Limit (dBc)
		Ant. 0	Ant. 1	
1	2412	41.391	41.693	≥ 30
6	2437	41.238	40.872	≥ 30
11	2462	43.293	42.894	≥ 30

IEEE 802.11g				
Channel	Frequency (MHz)	Measure Level (dBc)		Limit (dBc)
		Ant. 0	Ant. 1	
1	2412	41.737	43.138	≥ 30
6	2437	46.903	42.937	≥ 30
11	2462	44.779	46.244	≥ 30

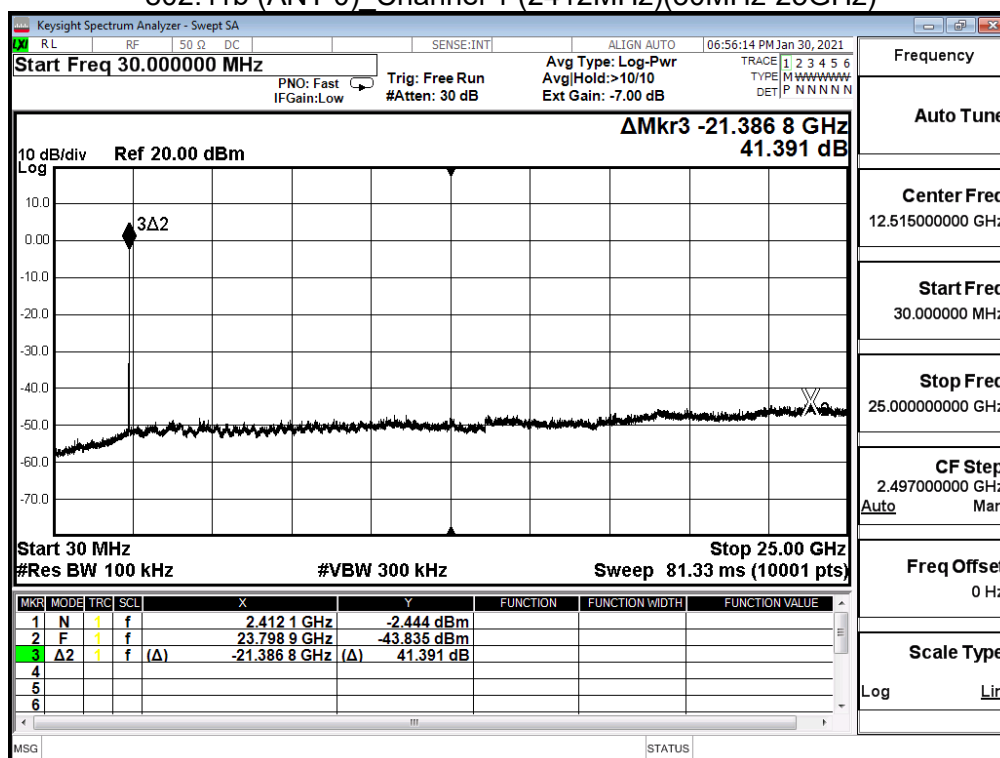
IEEE 802.11n(20M)				
Channel	Frequency (MHz)	Measure Level (dBc)		Limit (dBc)
		Ant. 0	Ant. 1	
1	2412	42.256	44.185	≥ 30
6	2437	45.373	46.041	≥ 30
11	2462	45.863	46.529	≥ 30

IEEE 802.11n(40M)				
Channel	Frequency (MHz)	Measure Level (dBc)		Limit (dBc)
		Ant. 0	Ant. 1	
3	2422	30.501	31.089	≥ 30
6	2437	38.207	41.503	≥ 30
9	2452	39.949	39.540	≥ 30

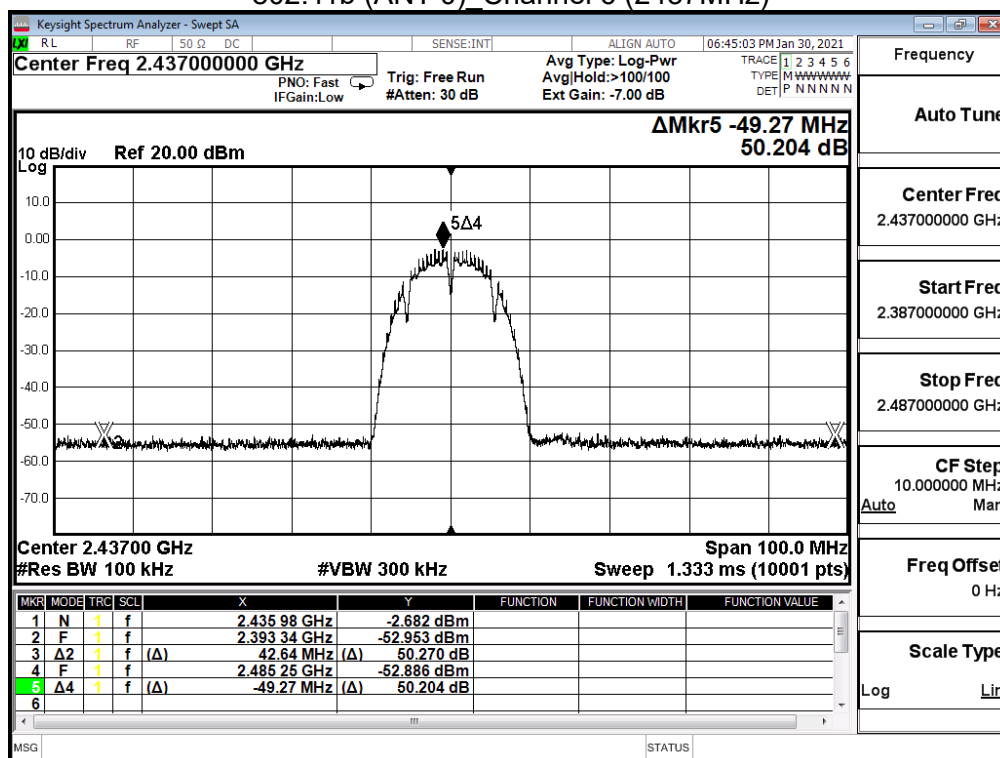
802.11b (ANT 0) Channel 1 (2412MHz)



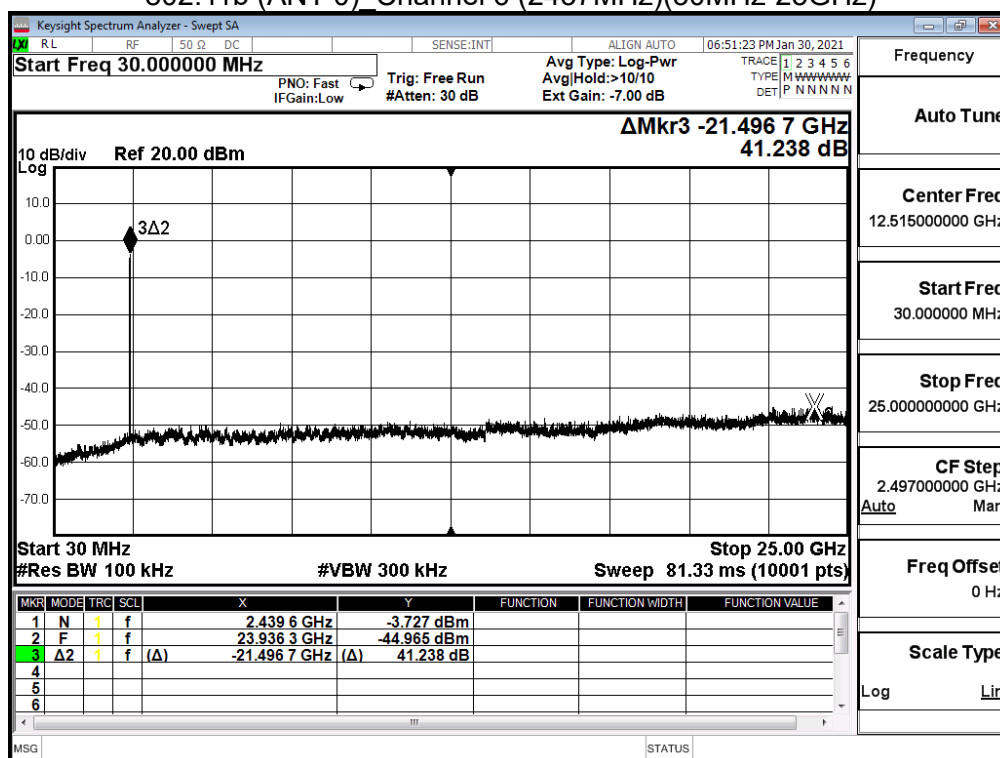
802.11b (ANT 0) Channel 1 (2412MHz)(30MHz-25GHz)



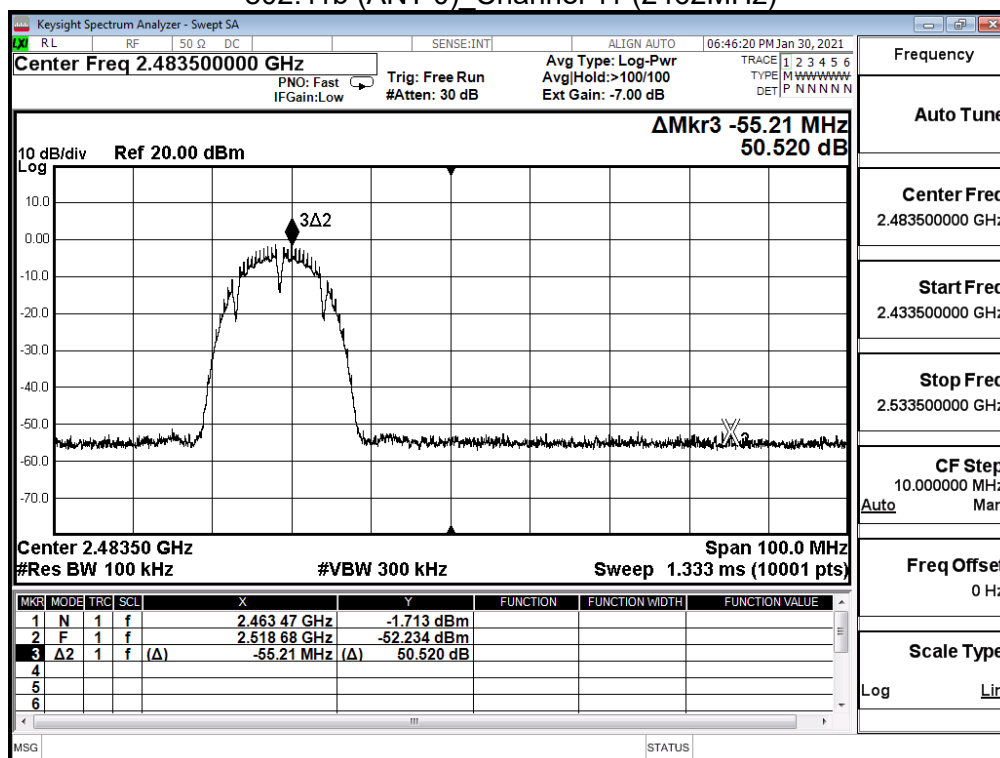
802.11b (ANT 0) Channel 6 (2437MHz)



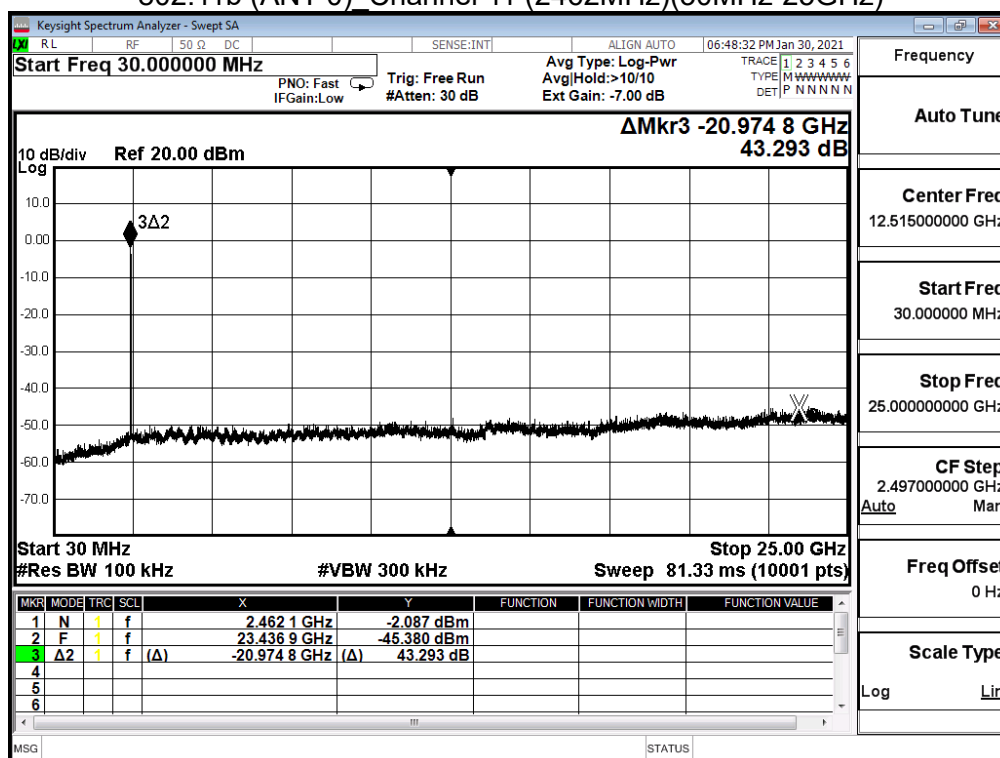
802.11b (ANT 0) Channel 6 (2437MHz)(30MHz-25GHz)



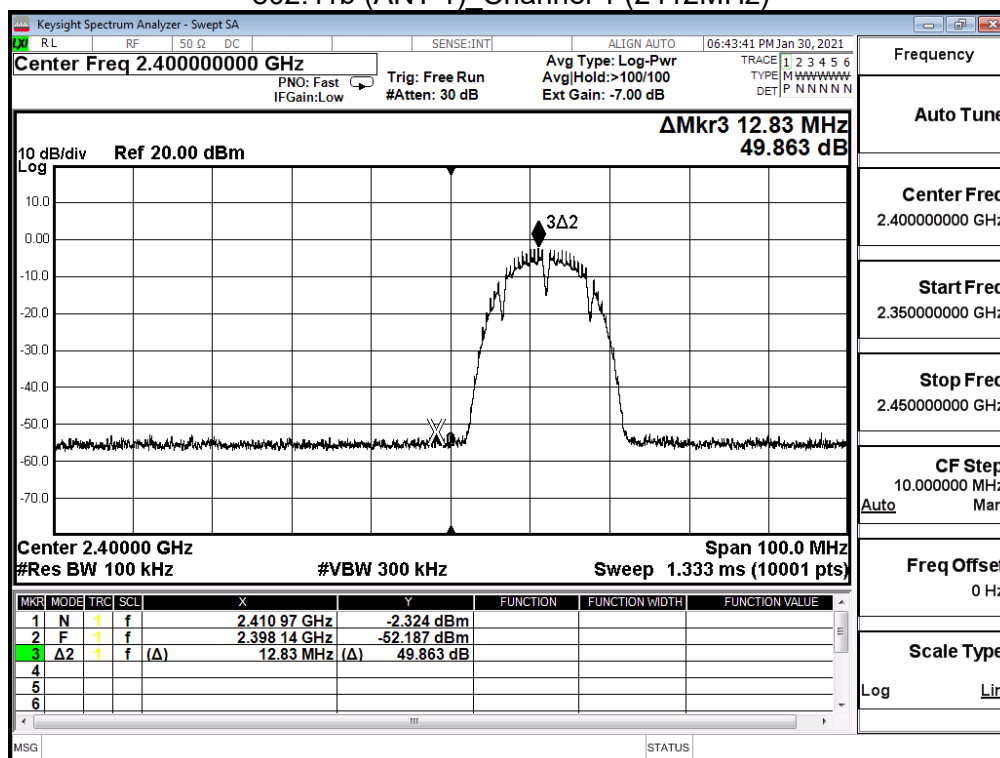
802.11b (ANT 0) Channel 11 (2462MHz)



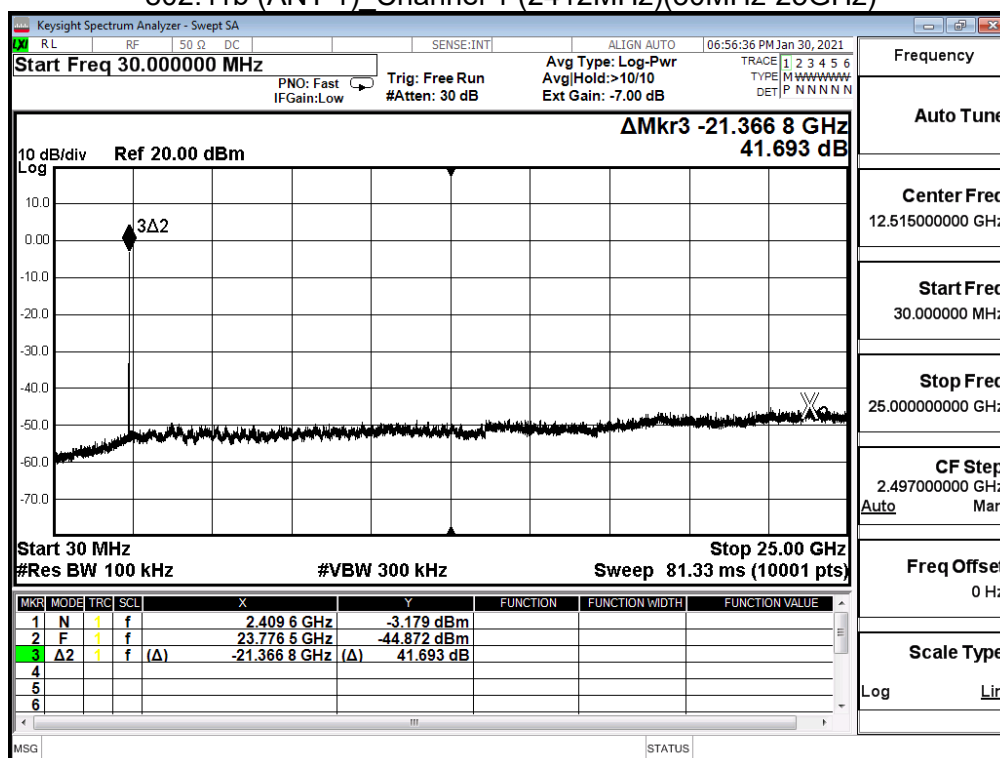
802.11b (ANT 0) Channel 11 (2462MHz)(30MHz-25GHz)



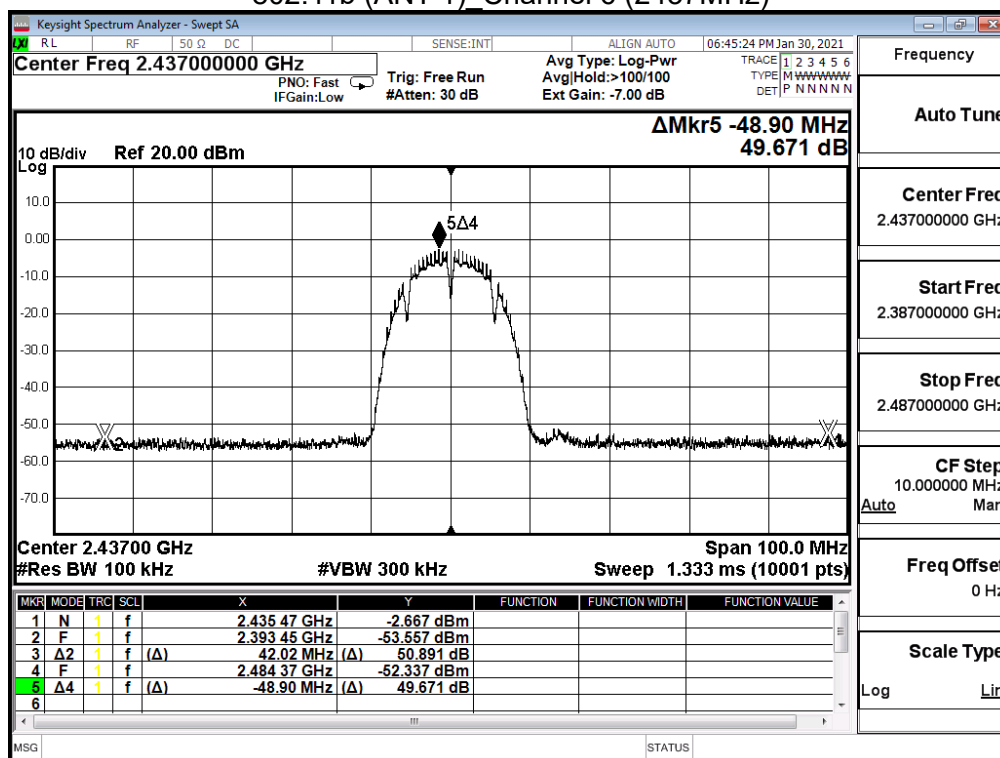
802.11b (ANT 1) Channel 1 (2412MHz)



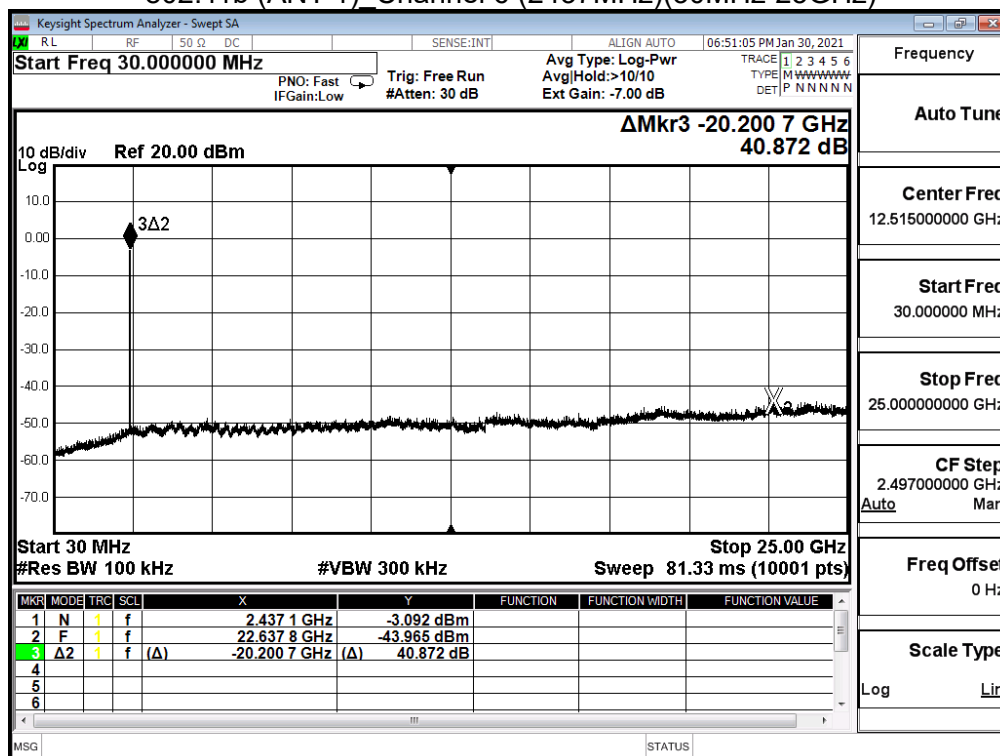
802.11b (ANT 1) Channel 1 (2412MHz)(30MHz-25GHz)



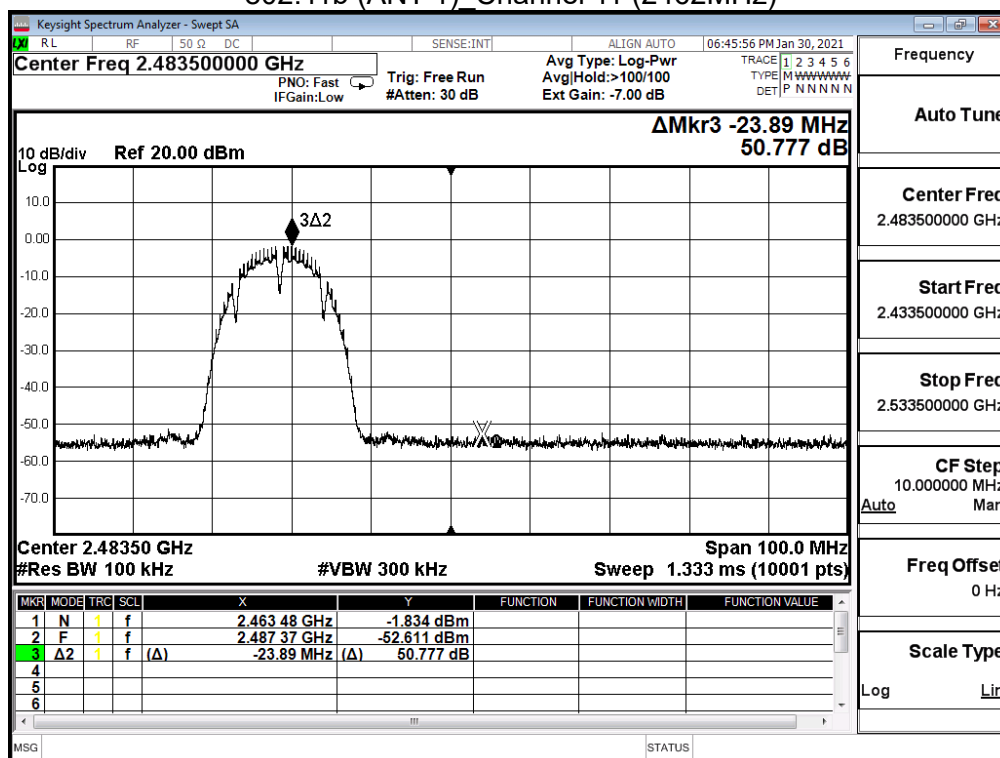
802.11b (ANT 1) Channel 6 (2437MHz)



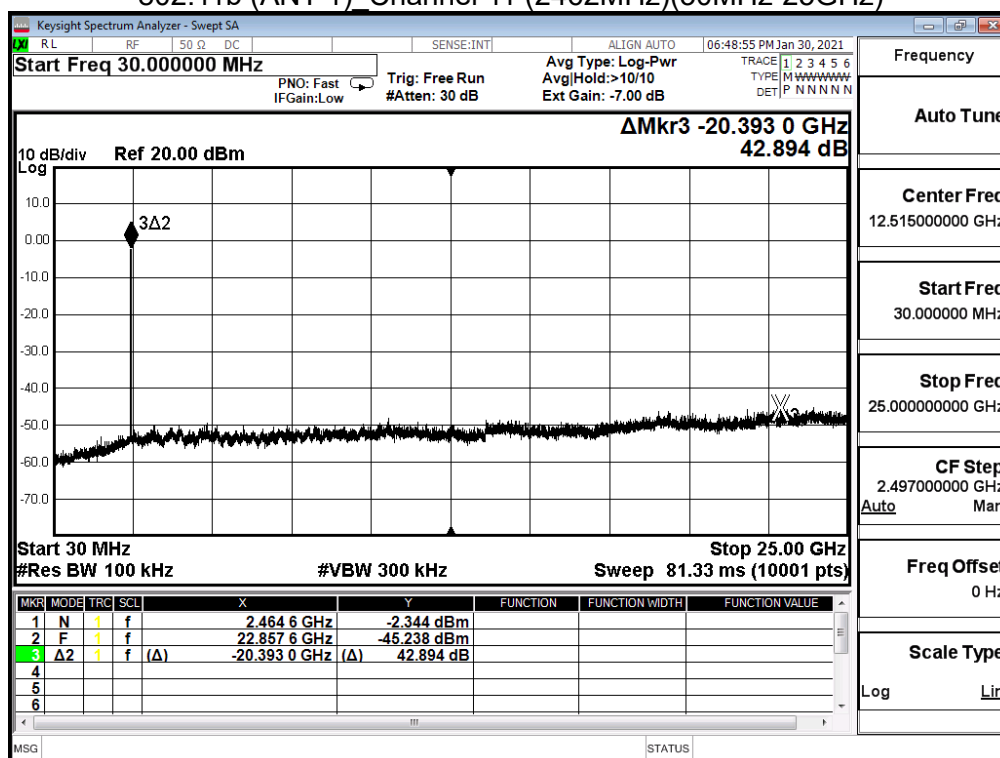
802.11b (ANT 1) Channel 6 (2437MHz)(30MHz-25GHz)



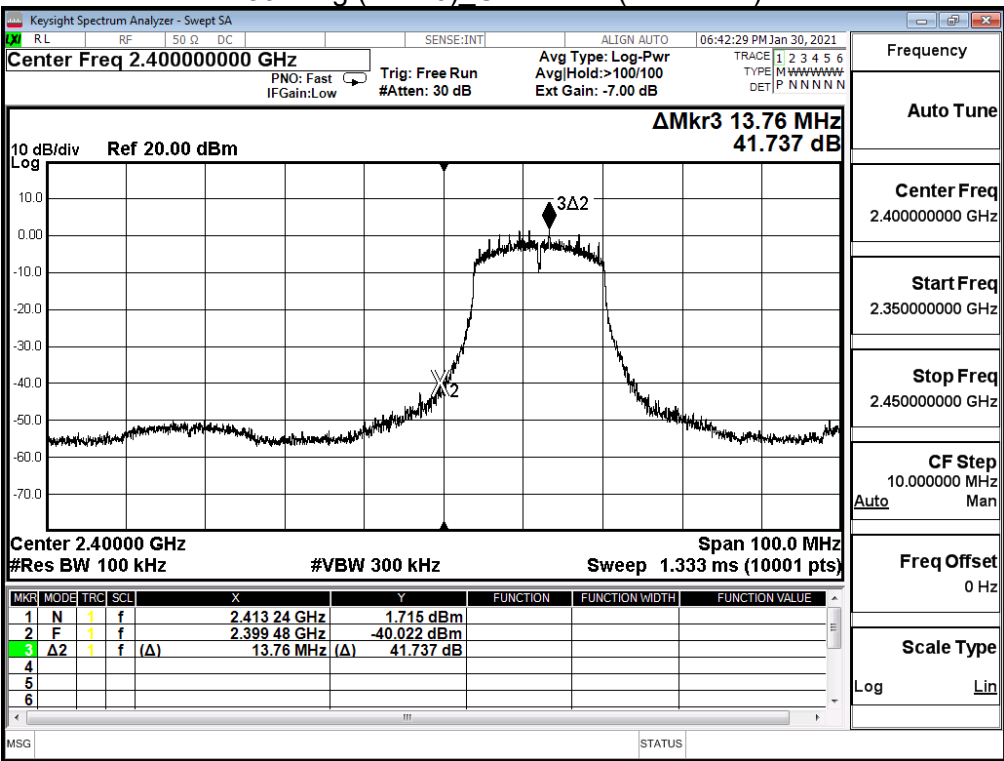
802.11b (ANT 1) Channel 11 (2462MHz)



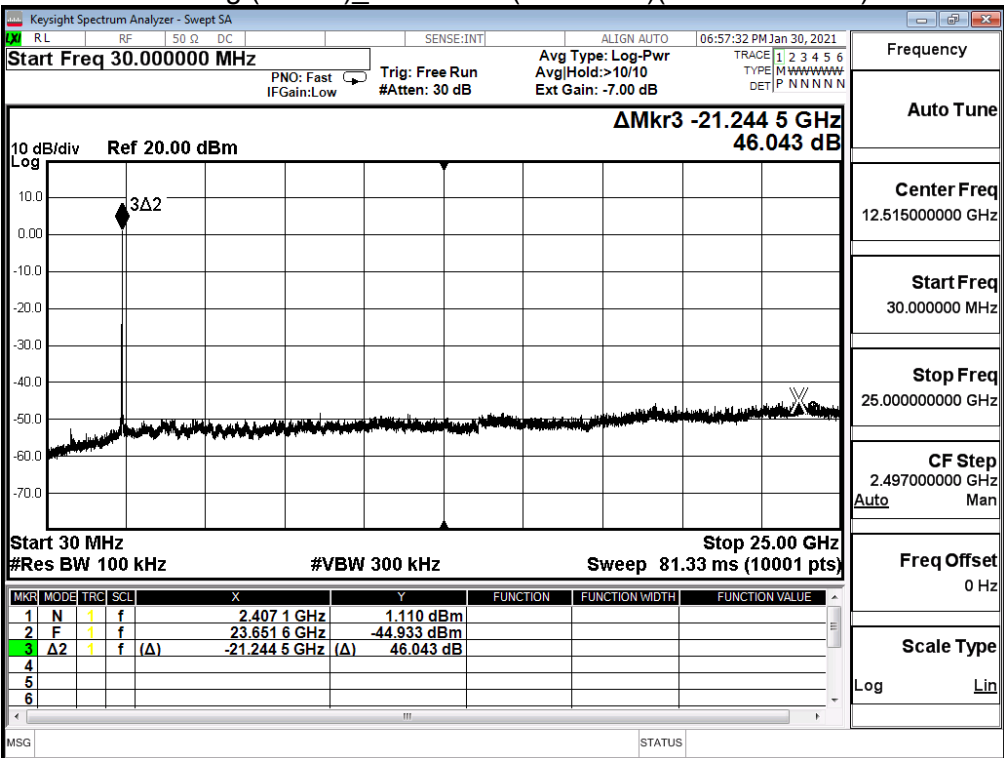
802.11b (ANT 1) Channel 11 (2462MHz)(30MHz-25GHz)



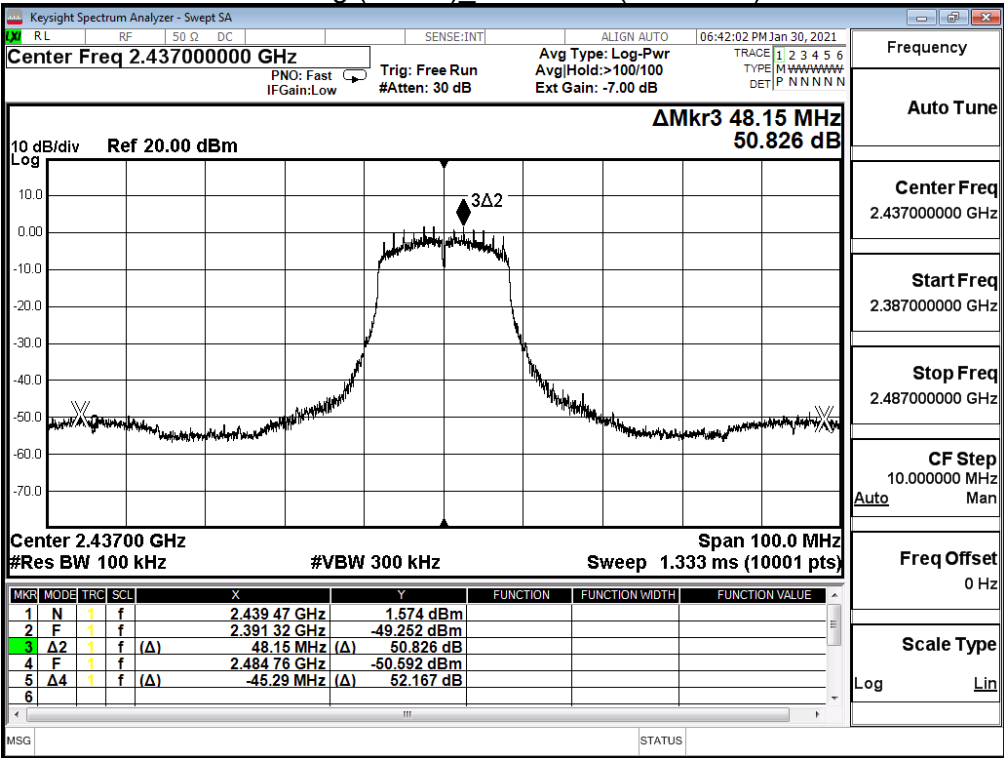
802.11g (ANT 0) Channel 1 (2412MHz)



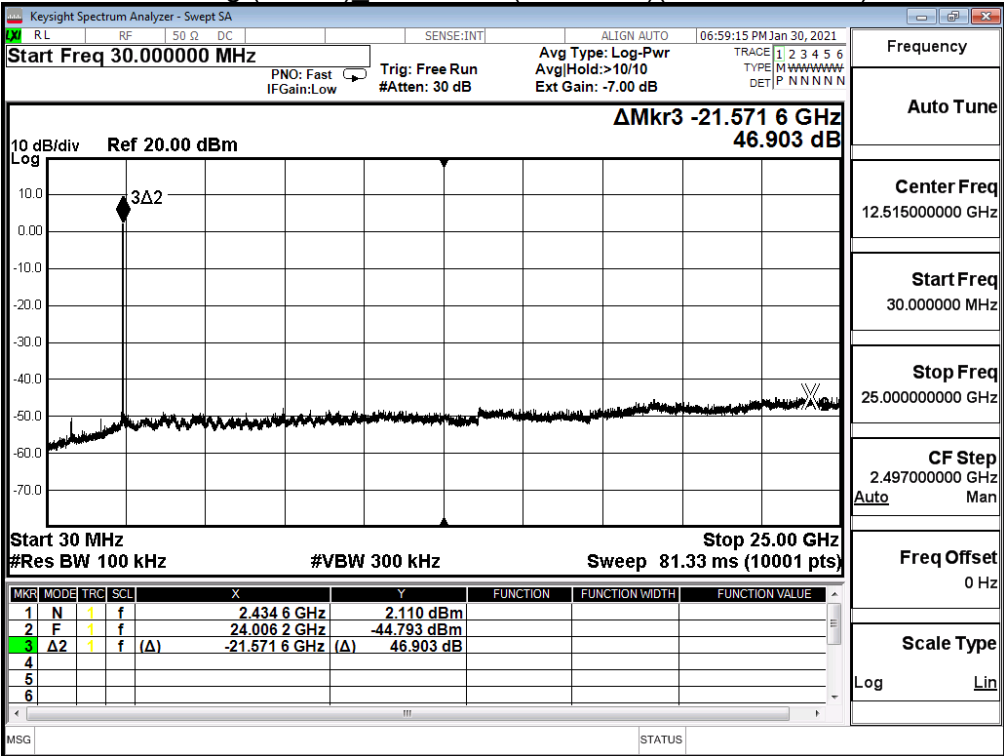
802.11g (ANT 0)_Channel 1 (2412MHz)(30MHz-25GHz)



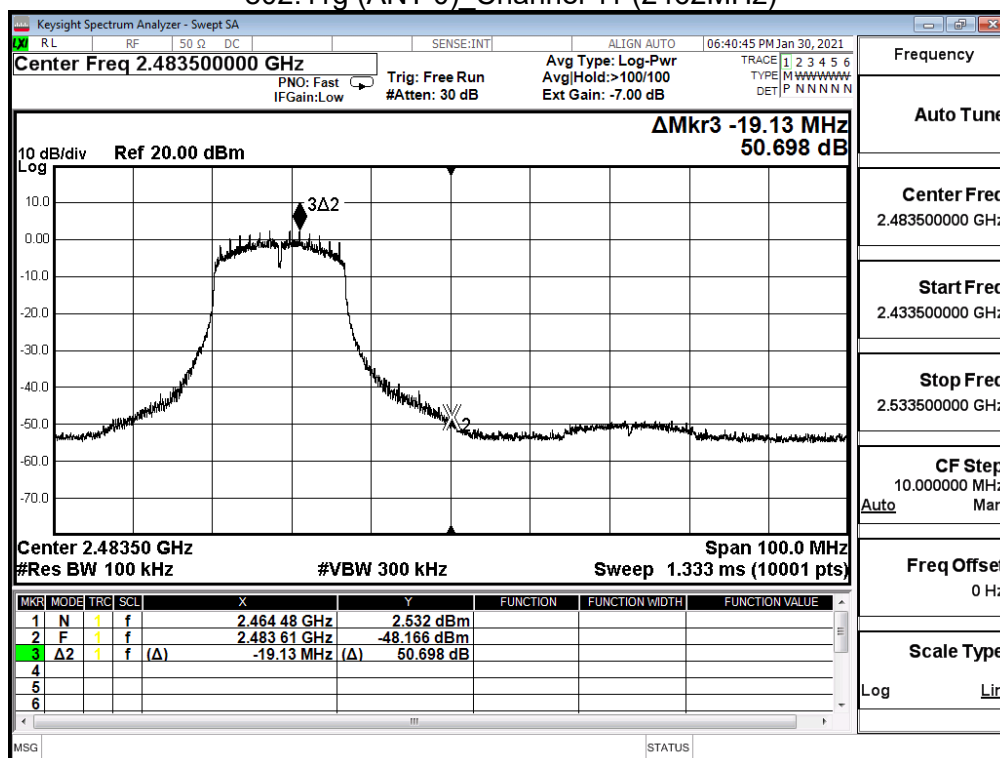
802.11g (ANT 0) Channel 6 (2437MHz)



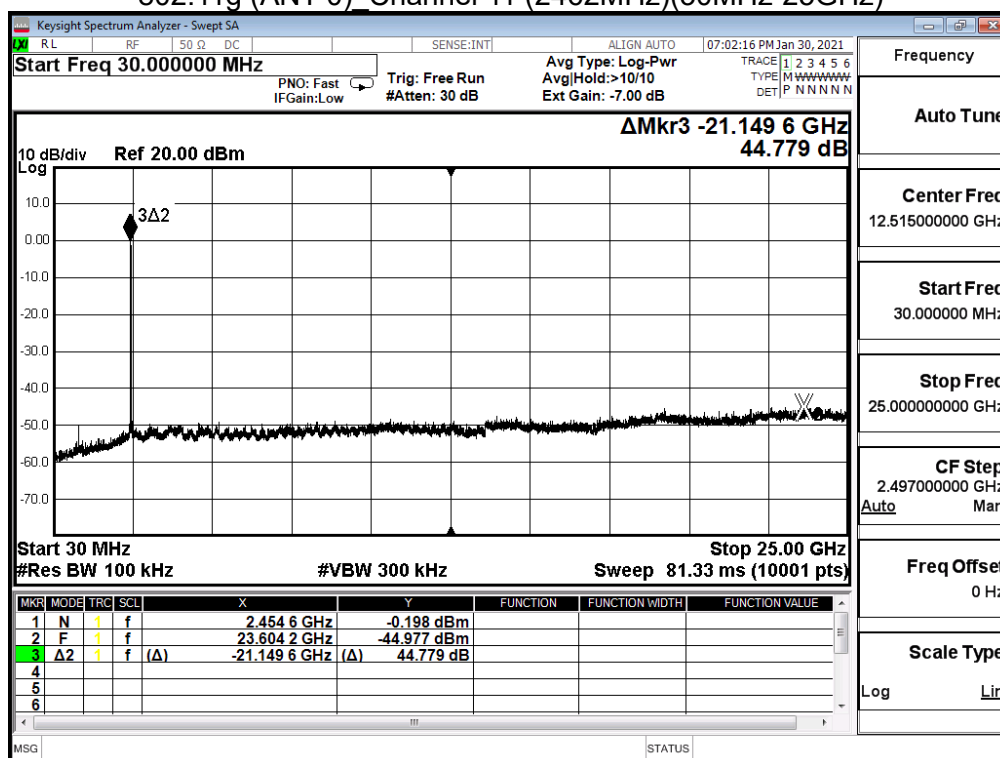
802.11g (ANT 0) Channel 6 (2437MHz)(30MHz-25GHz)



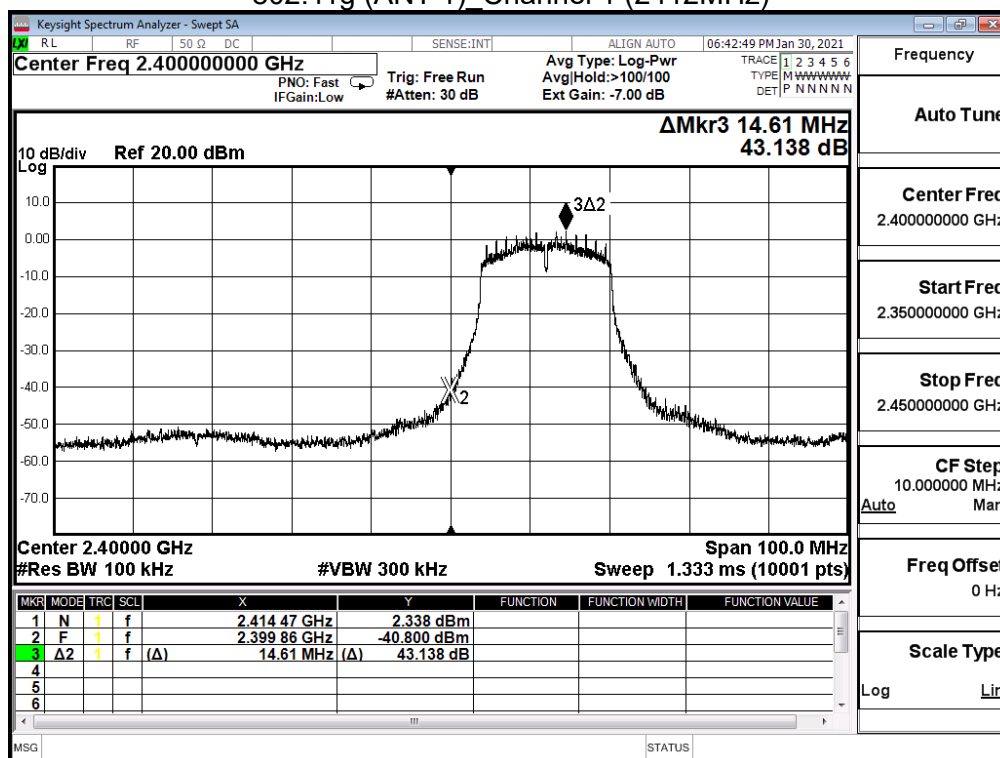
802.11g (ANT 0) Channel 11 (2462MHz)



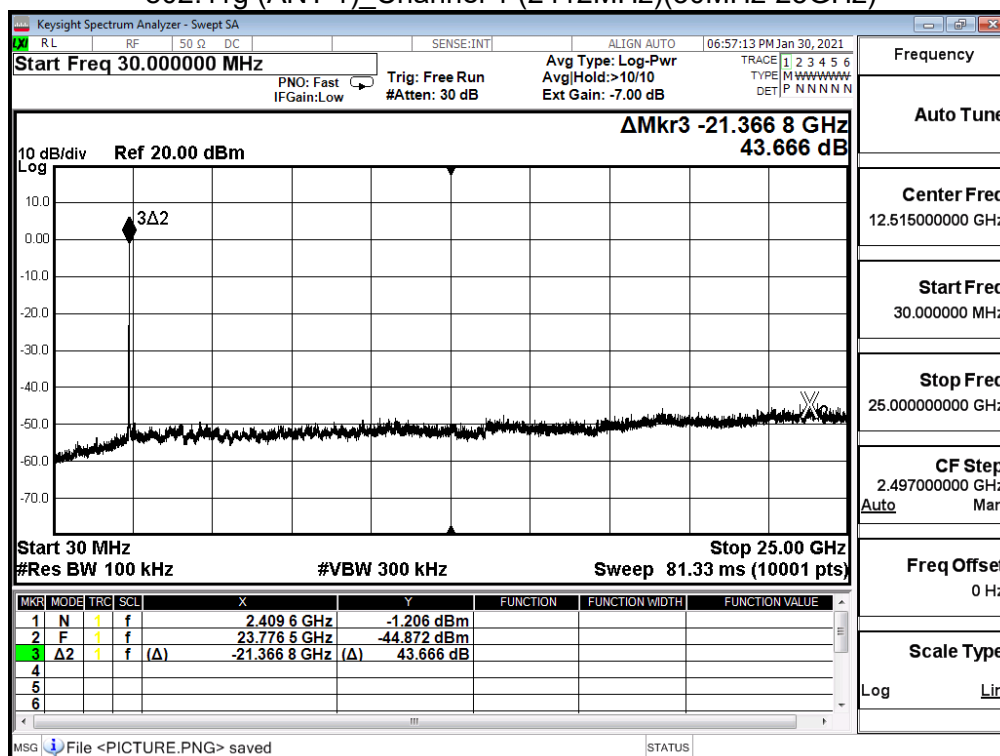
802.11g (ANT 0) Channel 11 (2462MHz)(30MHz-25GHz)



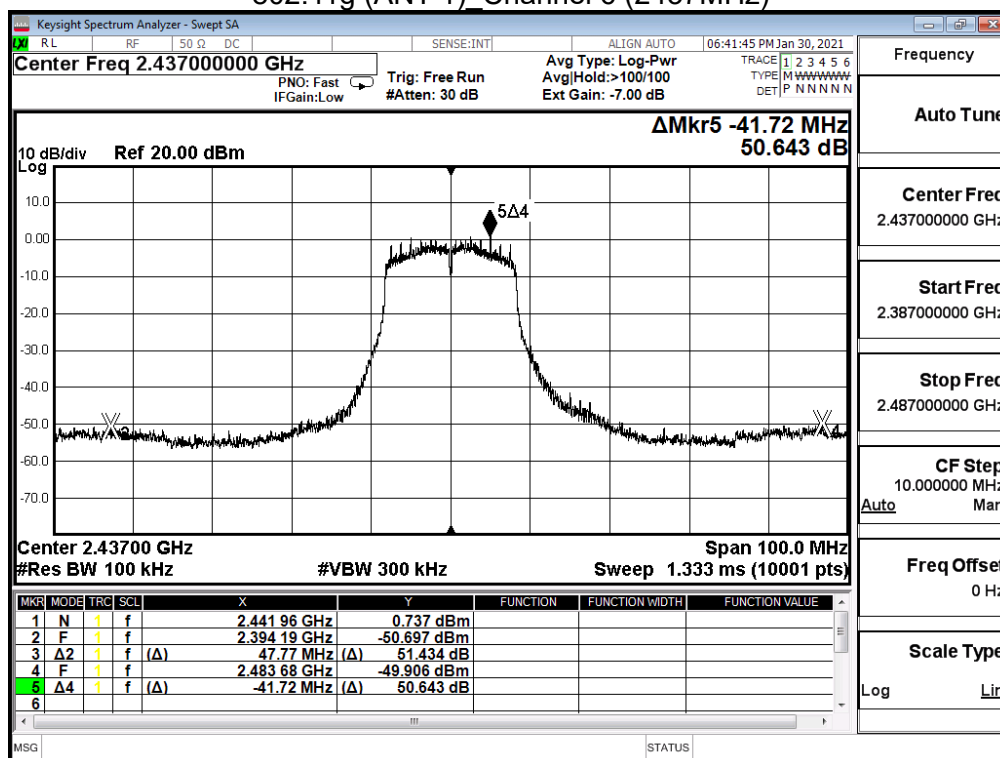
802.11g (ANT 1) Channel 1 (2412MHz)



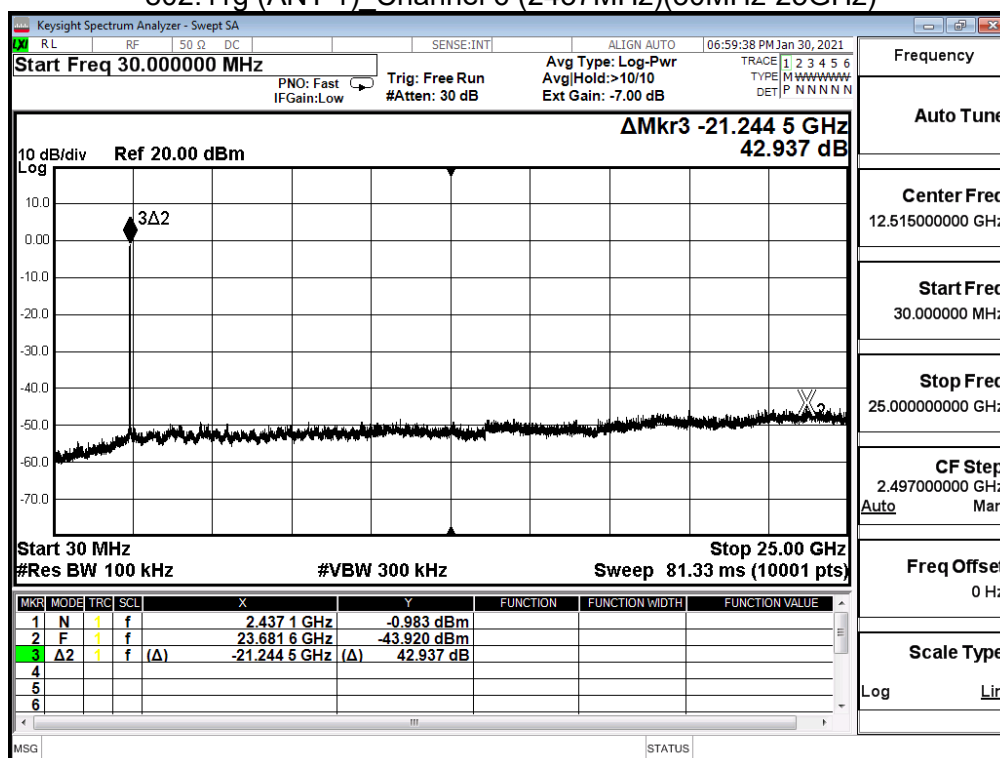
802.11g (ANT 1)_Channel 1 (2412MHz)(30MHz-25GHz)



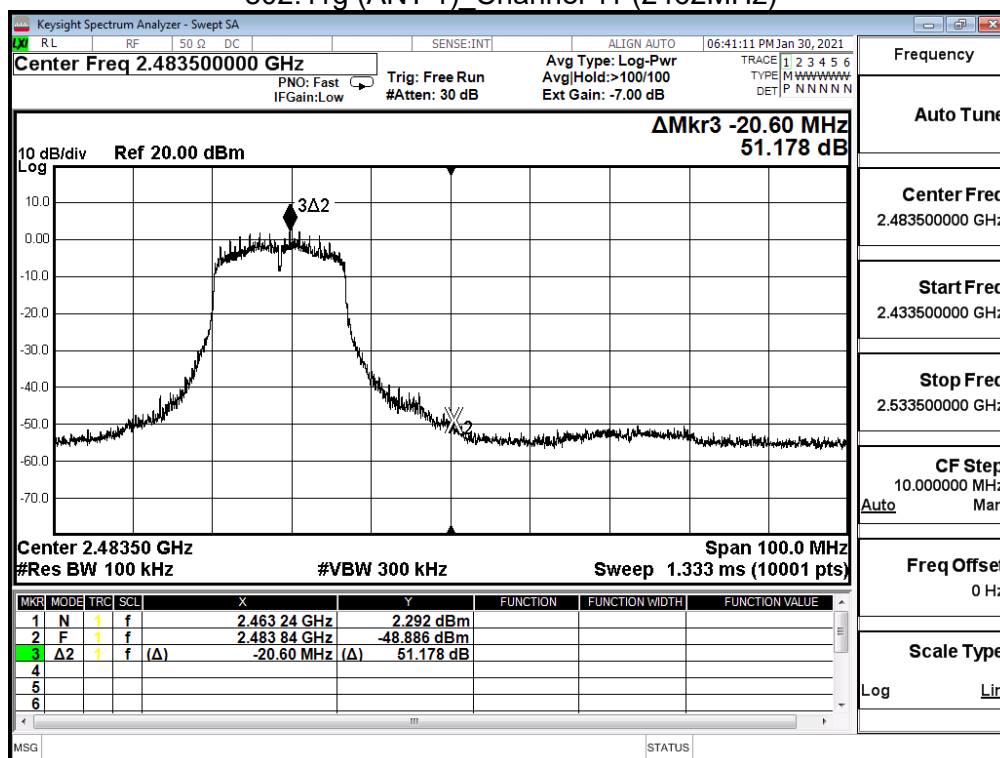
802.11g (ANT 1) Channel 6 (2437MHz)



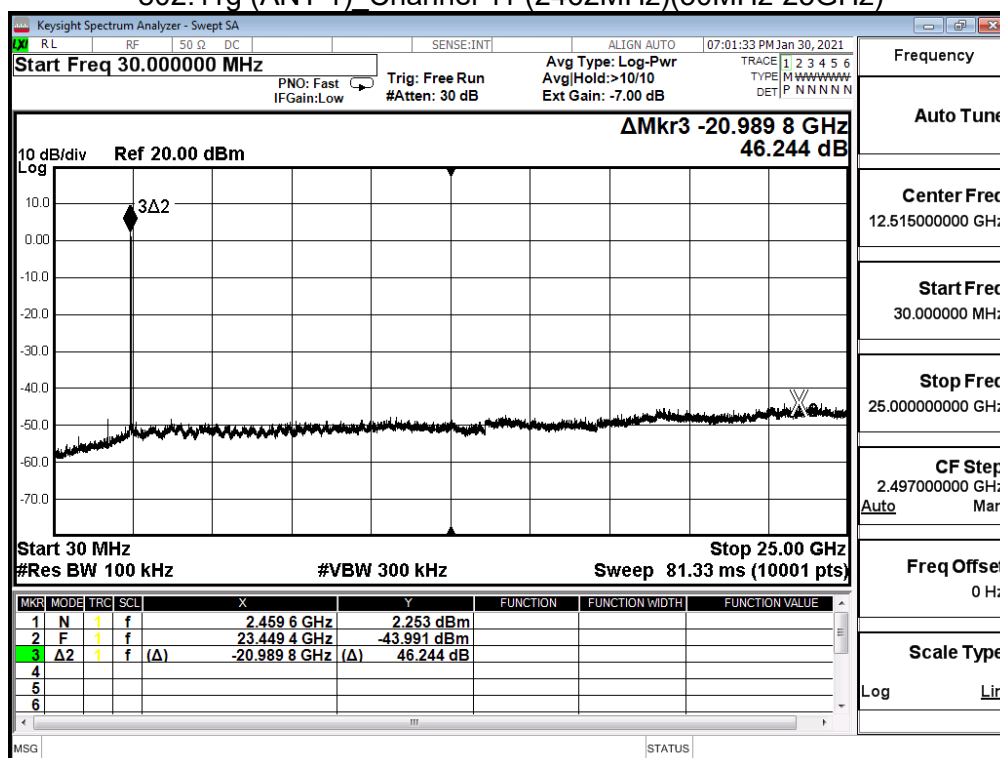
802.11g (ANT 1) Channel 6 (2437MHz)(30MHz-25GHz)



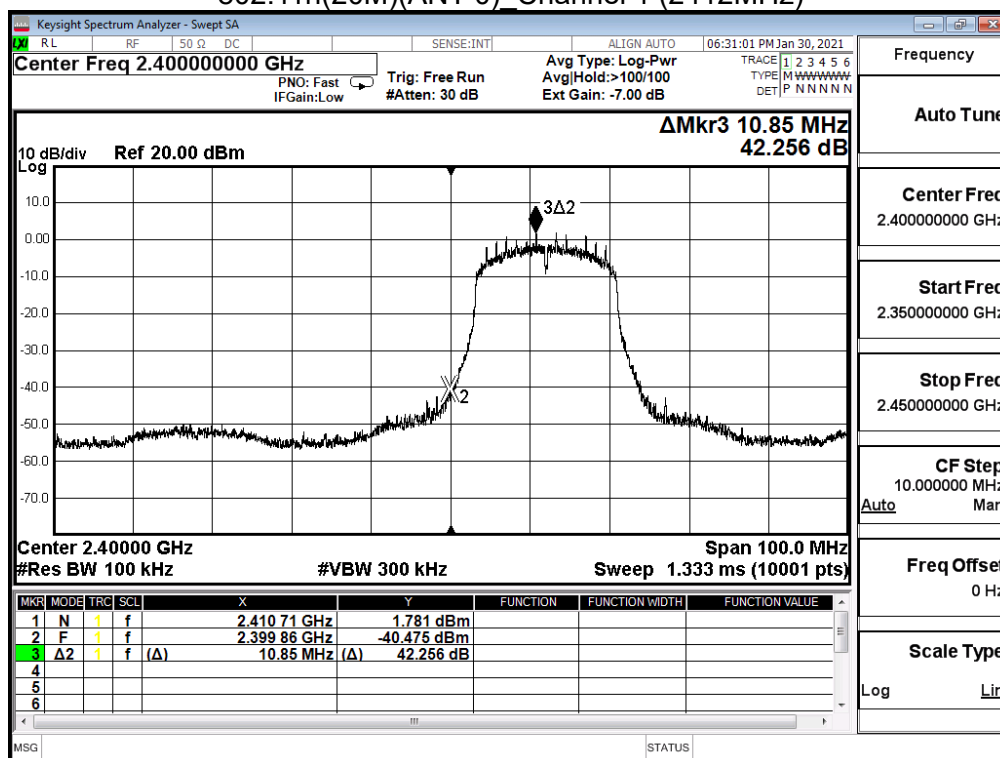
802.11g (ANT 1) Channel 11 (2462MHz)



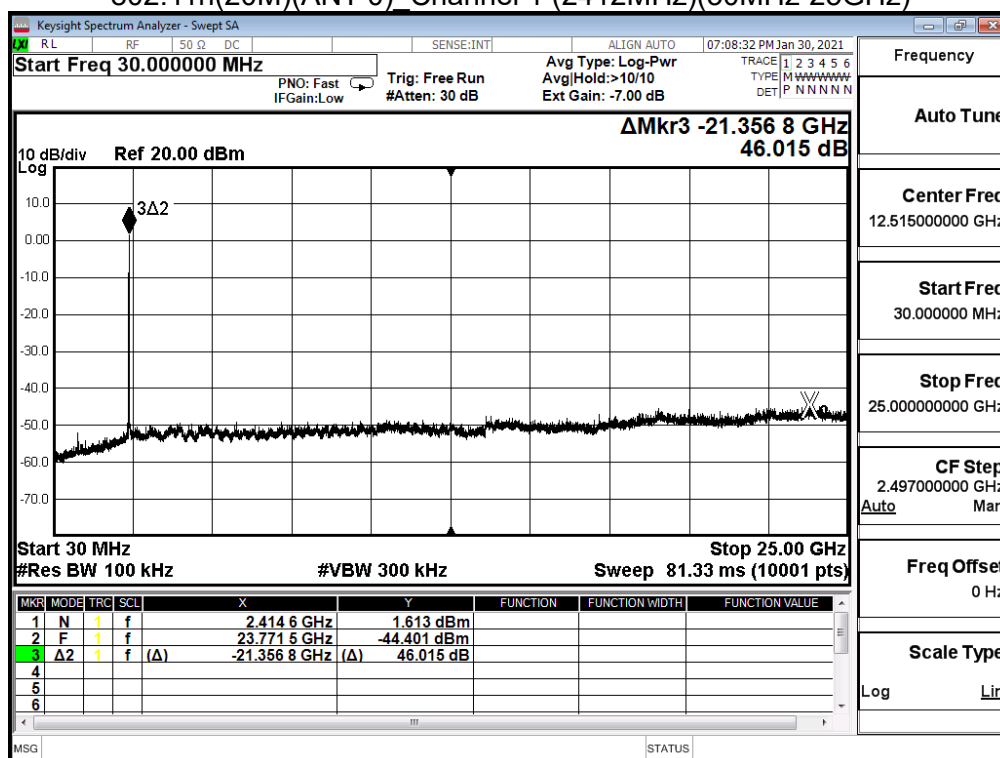
802.11g (ANT 1) Channel 11 (2462MHz)(30MHz-25GHz)



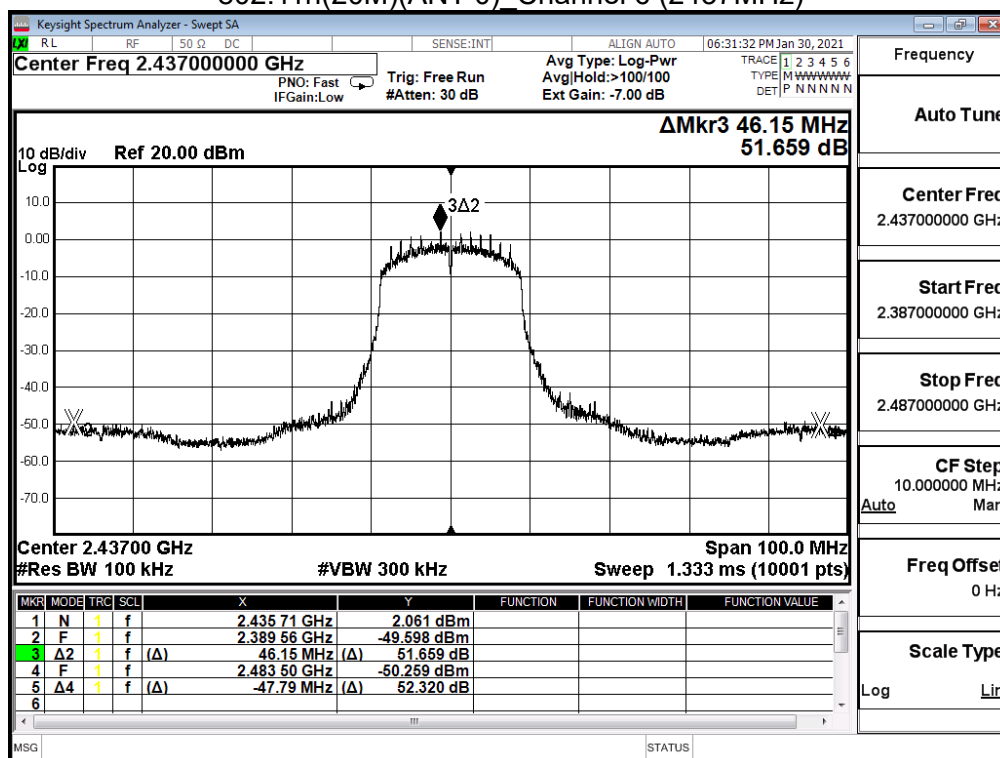
802.11n(20M)(ANT 0) Channel 1 (2412MHz)



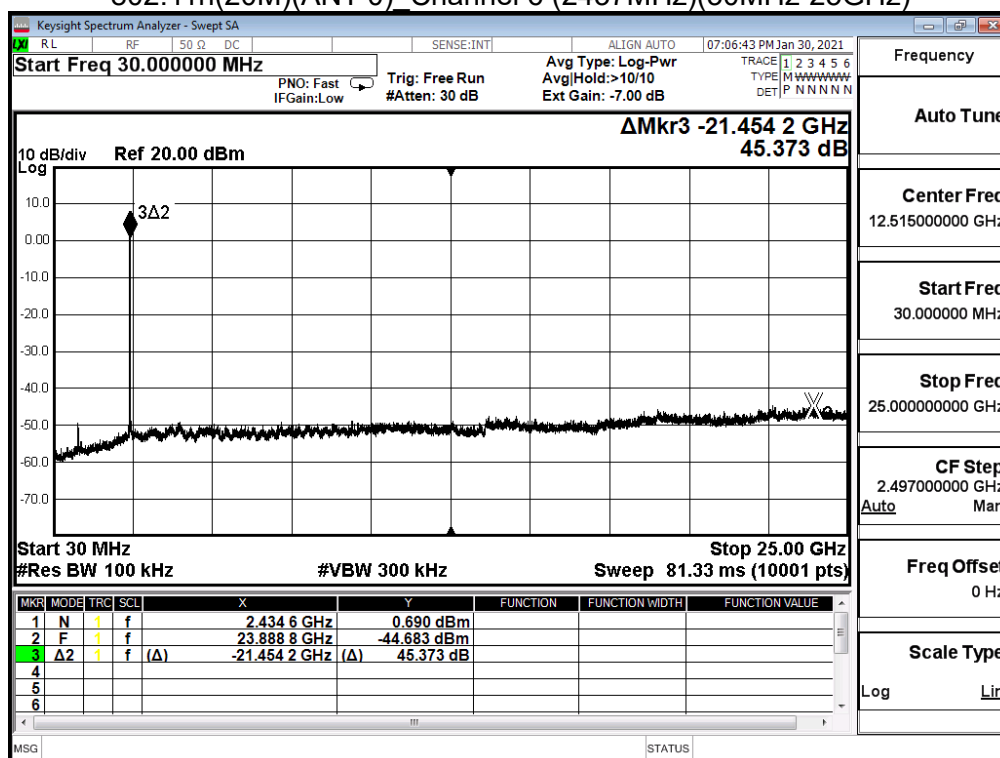
802.11n(20M)(ANT 0) Channel 1 (2412MHz)(30MHz-25GHz)



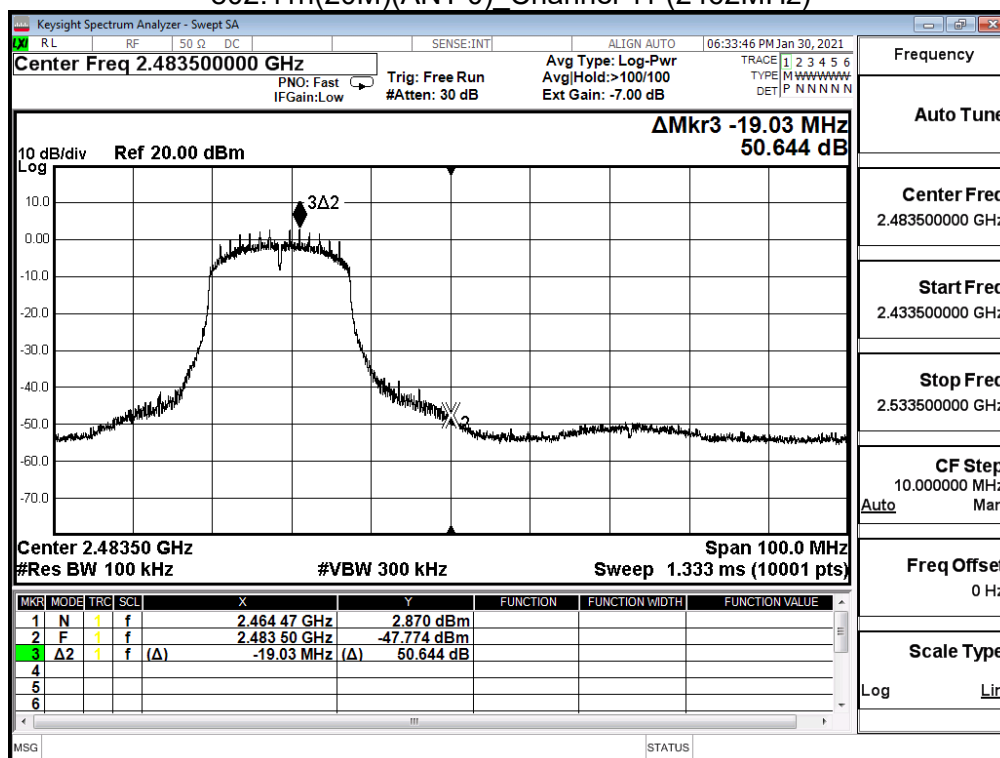
802.11n(20M)(ANT 0) Channel 6 (2437MHz)



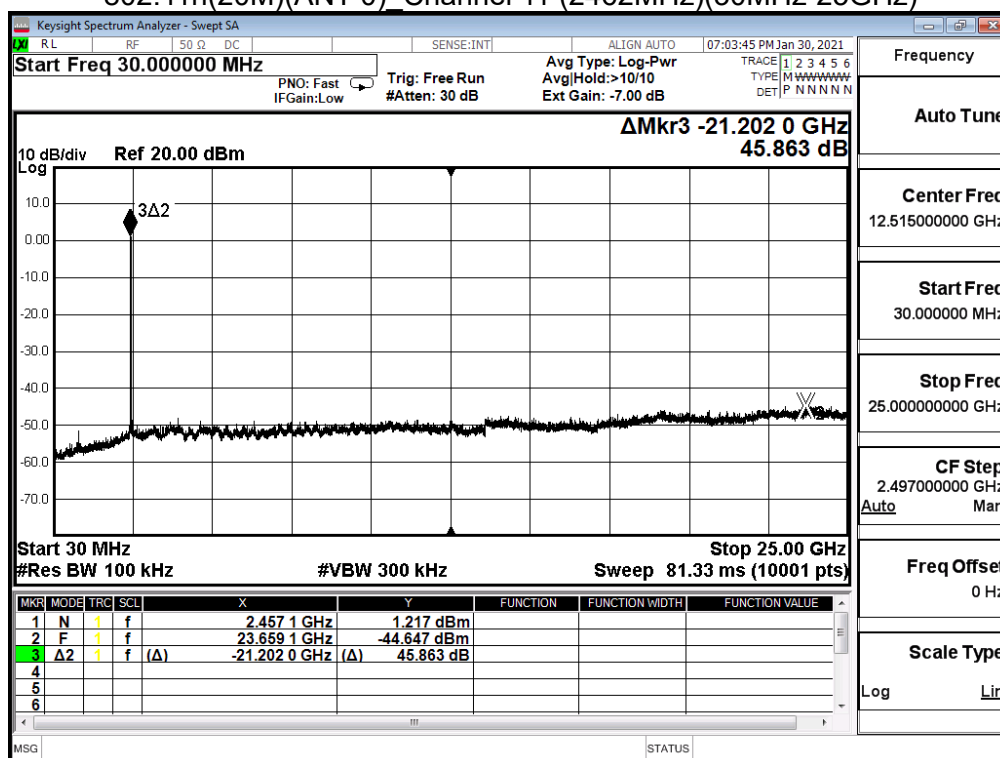
802.11n(20M)(ANT 0) Channel 6 (2437MHz)(30MHz-25GHz)



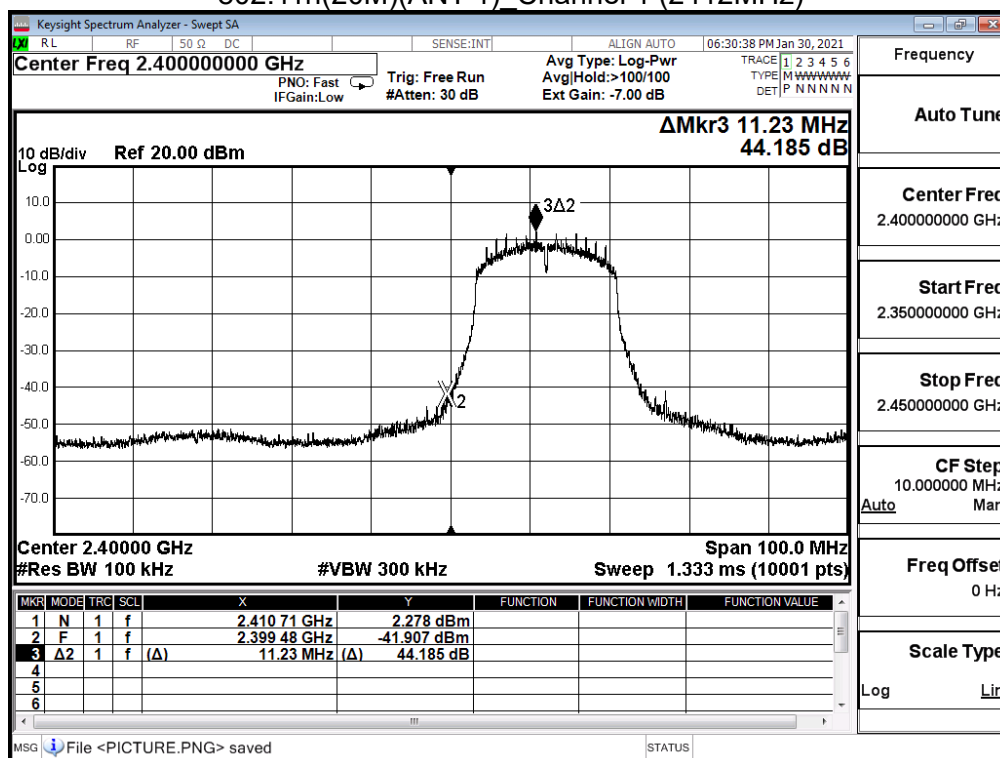
802.11n(20M)(ANT 0) Channel 11 (2462MHz)



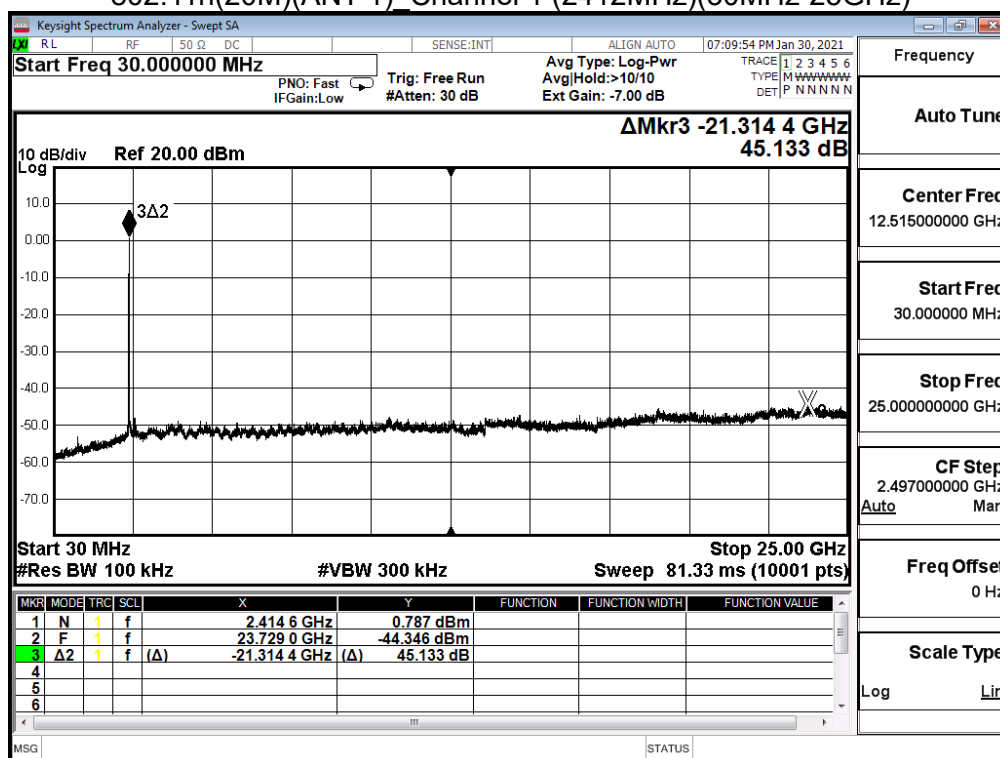
802.11n(20M)(ANT 0) Channel 11 (2462MHz)(30MHz-25GHz)



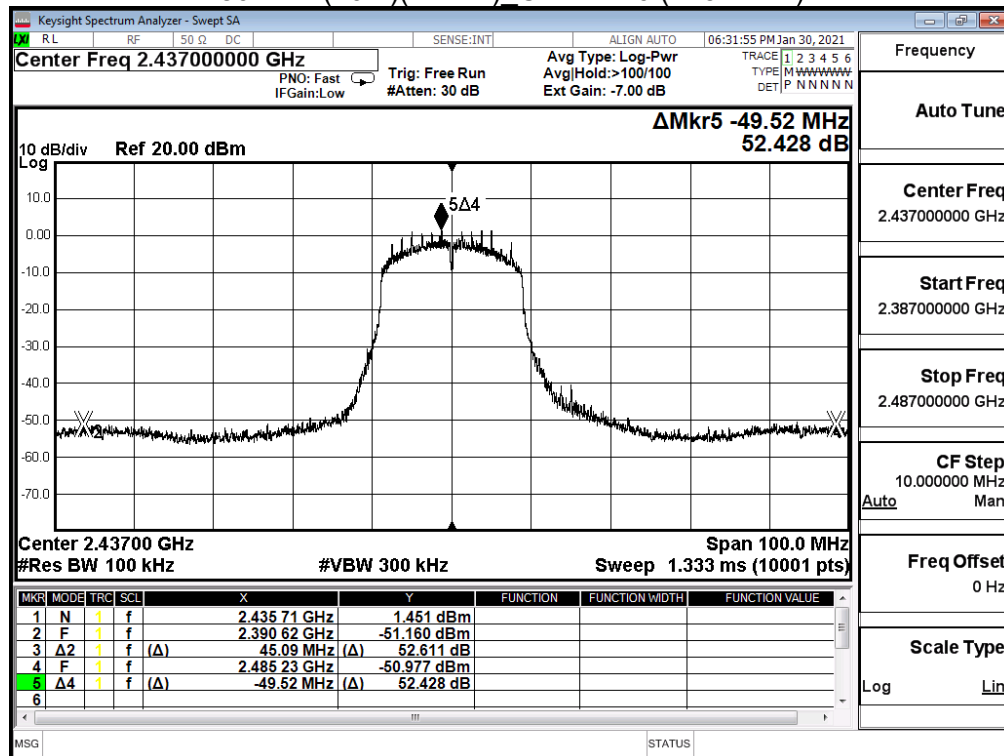
802.11n(20M)(ANT 1) Channel 1 (2412MHz)



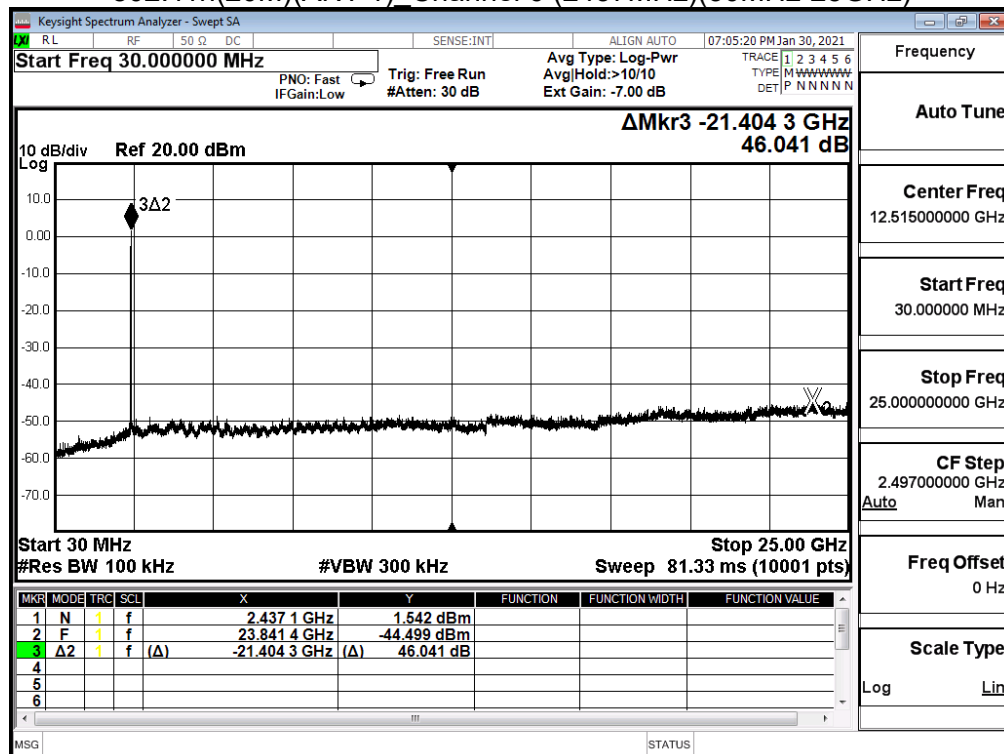
802.11n(20M)(ANT 1) Channel 1 (2412MHz)(30MHz-25GHz)



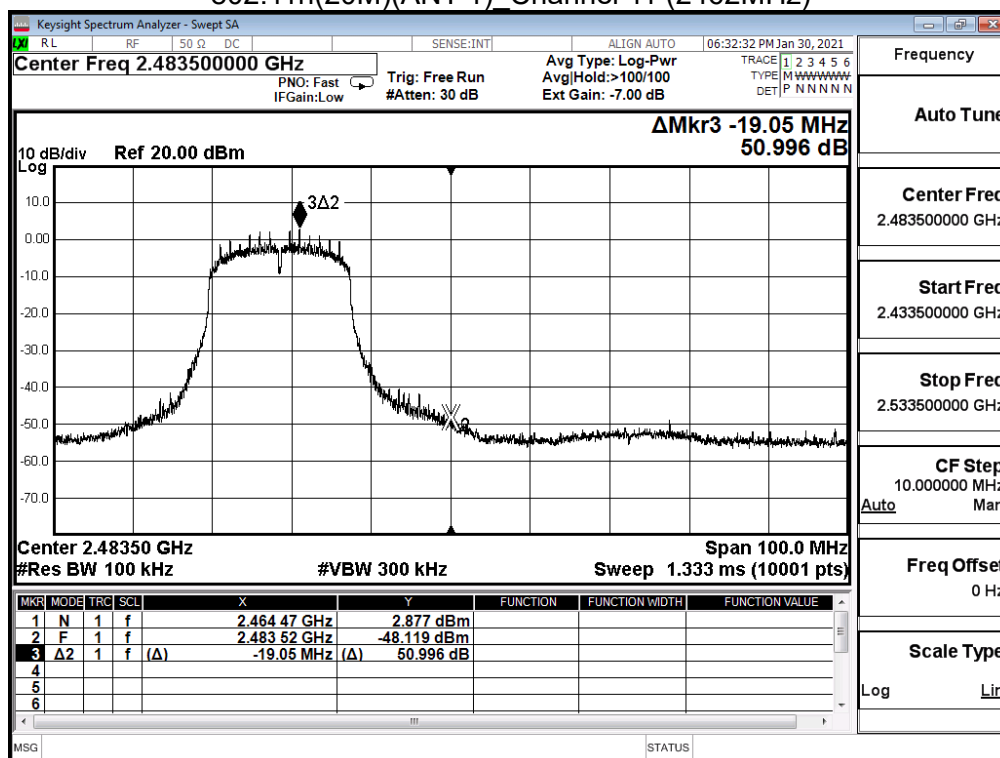
802.11n(20M)(ANT 1) Channel 6 (2437MHz)



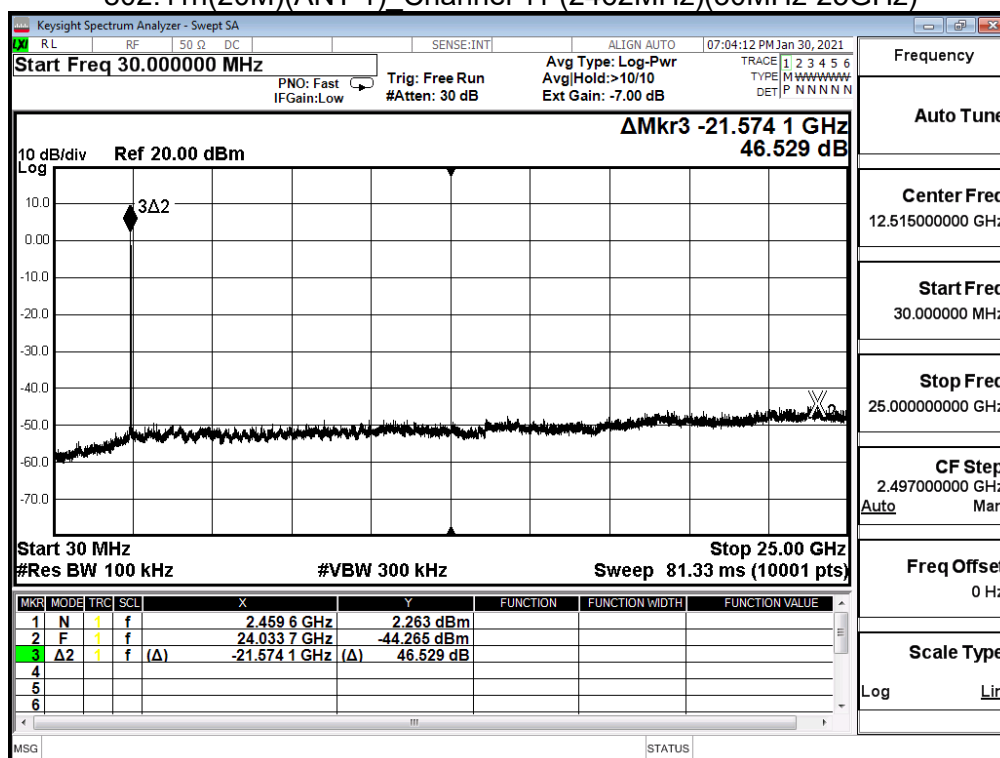
802.11n(20M)(ANT 1) Channel 6 (2437MHz)(30MHz-25GHz)



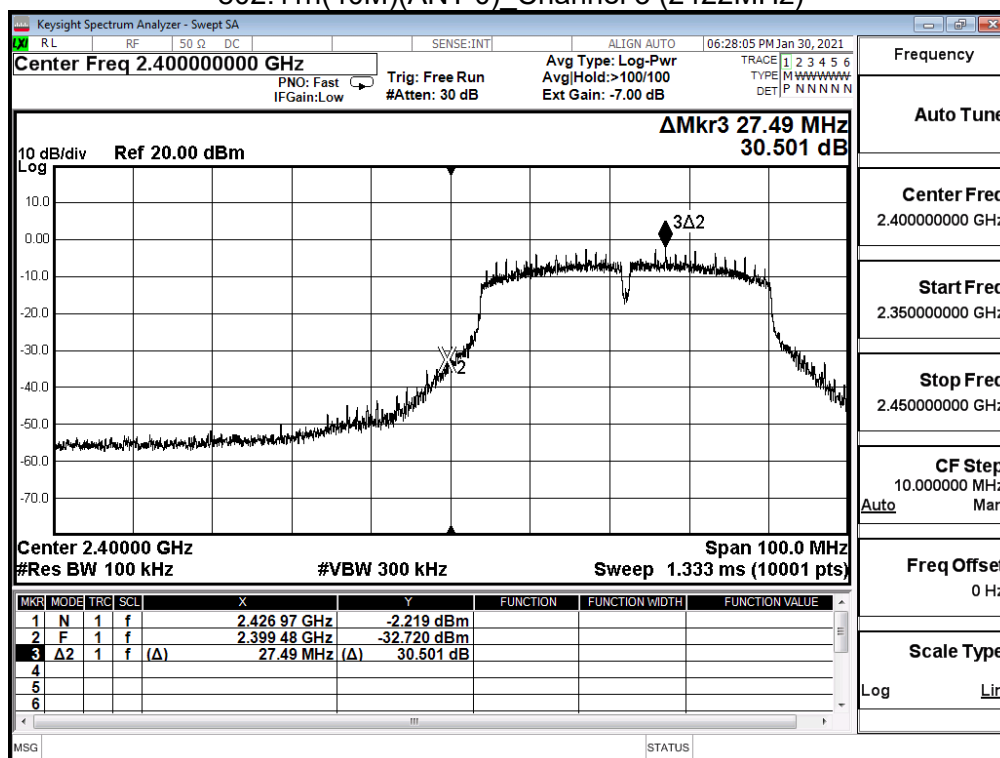
802.11n(20M)(ANT 1) Channel 11 (2462MHz)



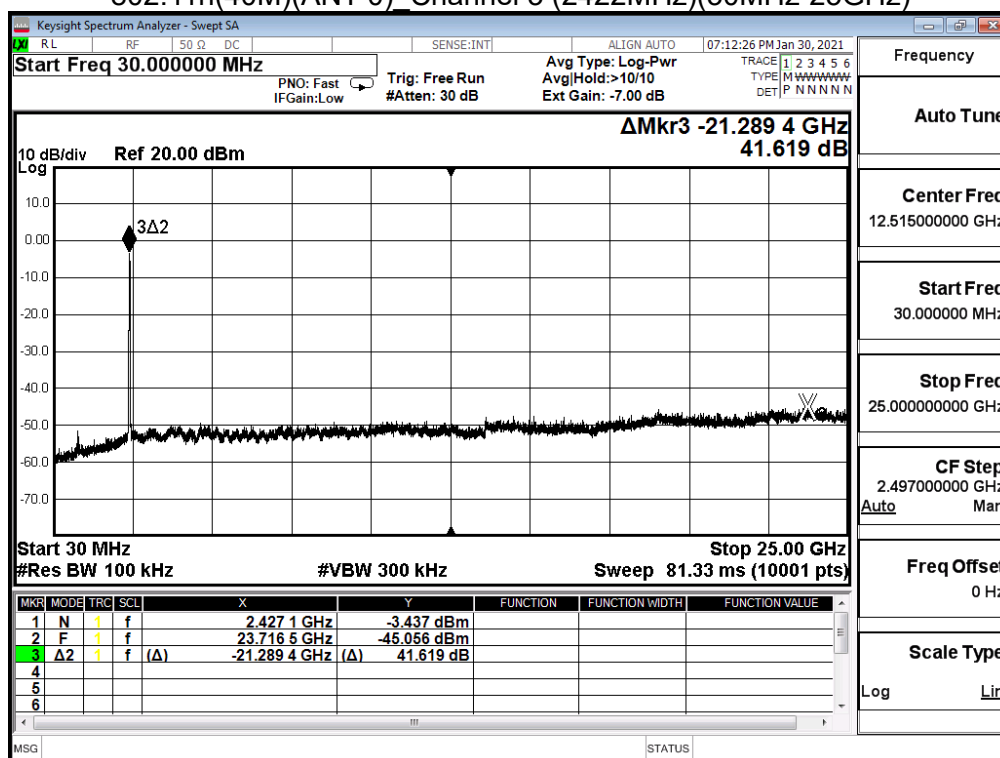
802.11n(20M)(ANT 1) Channel 11 (2462MHz)(30MHz-25GHz)



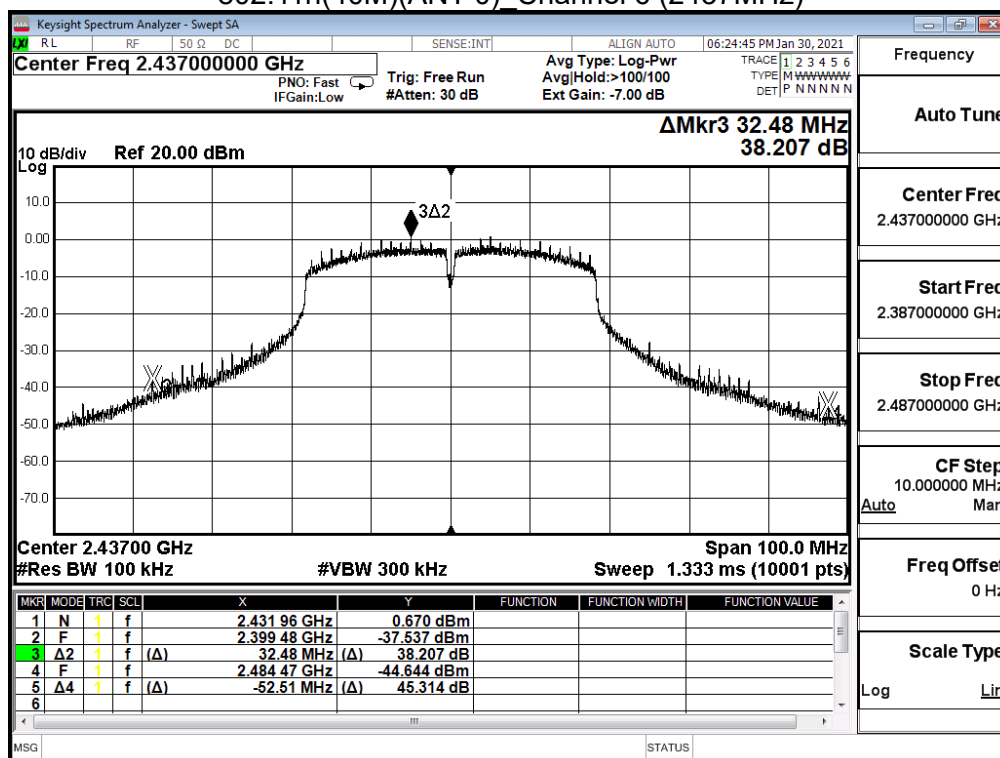
802.11n(40M)(ANT 0) Channel 3 (2422MHz)



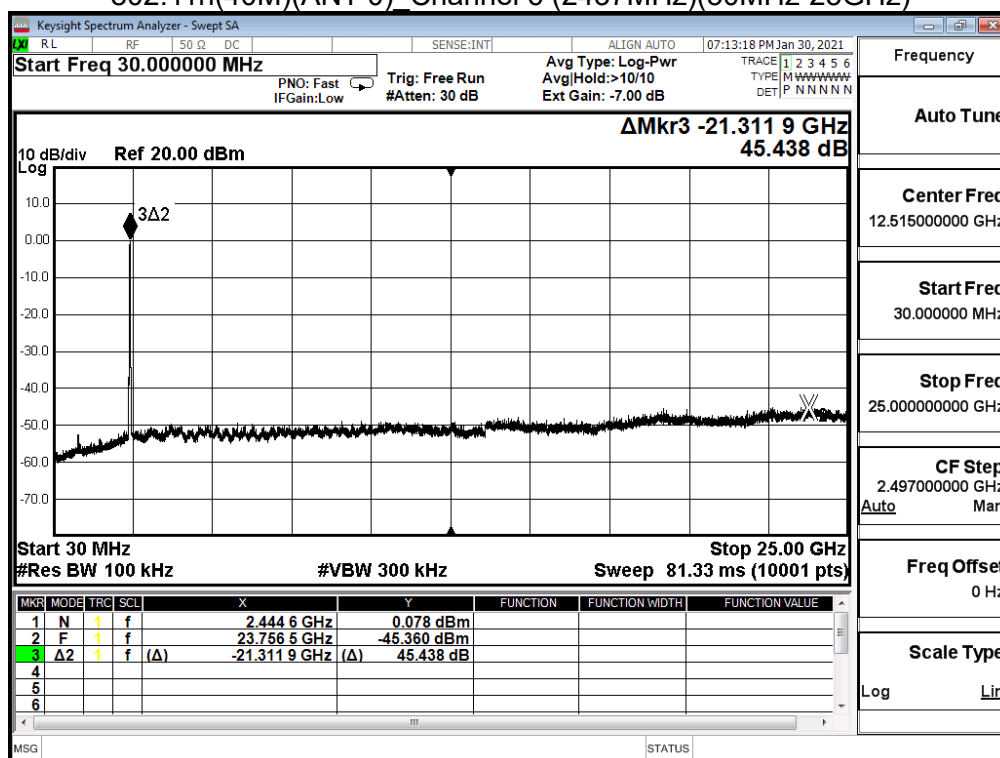
802.11n(40M)(ANT 0) Channel 3 (2422MHz)(30MHz-25GHz)



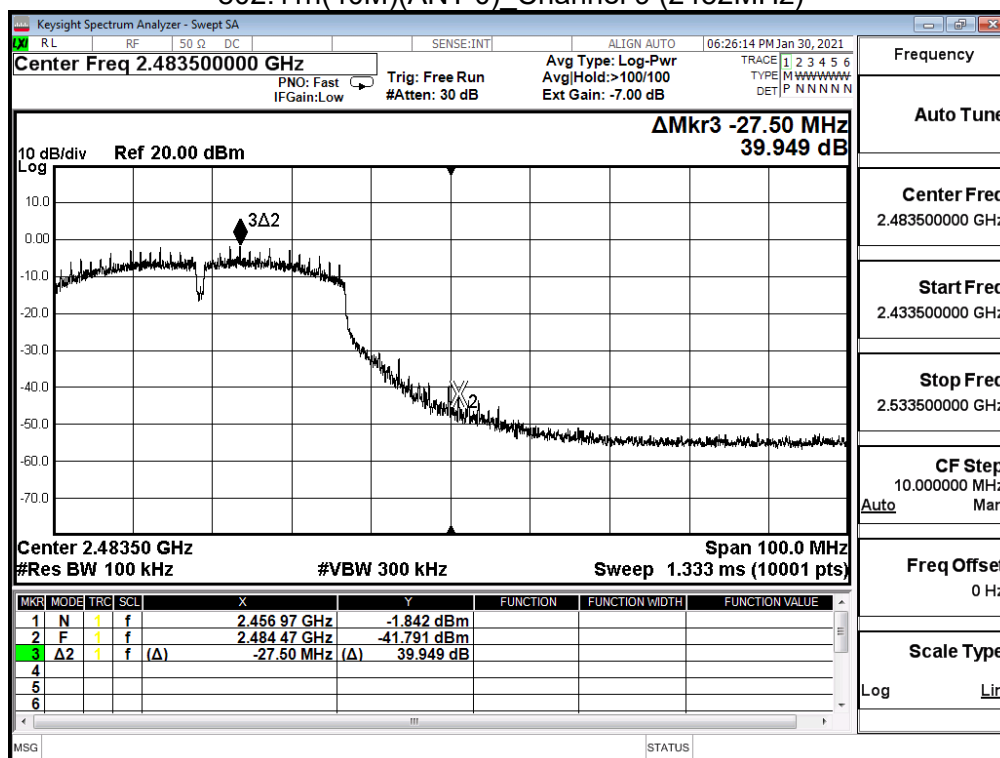
802.11n(40M)(ANT 0) Channel 6 (2437MHz)



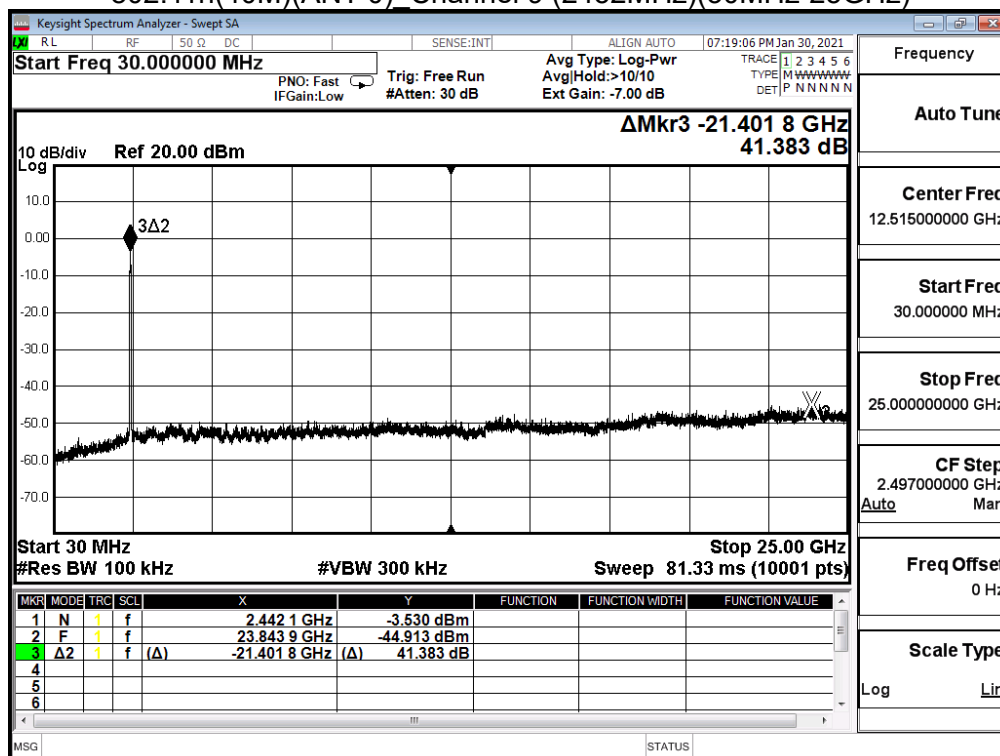
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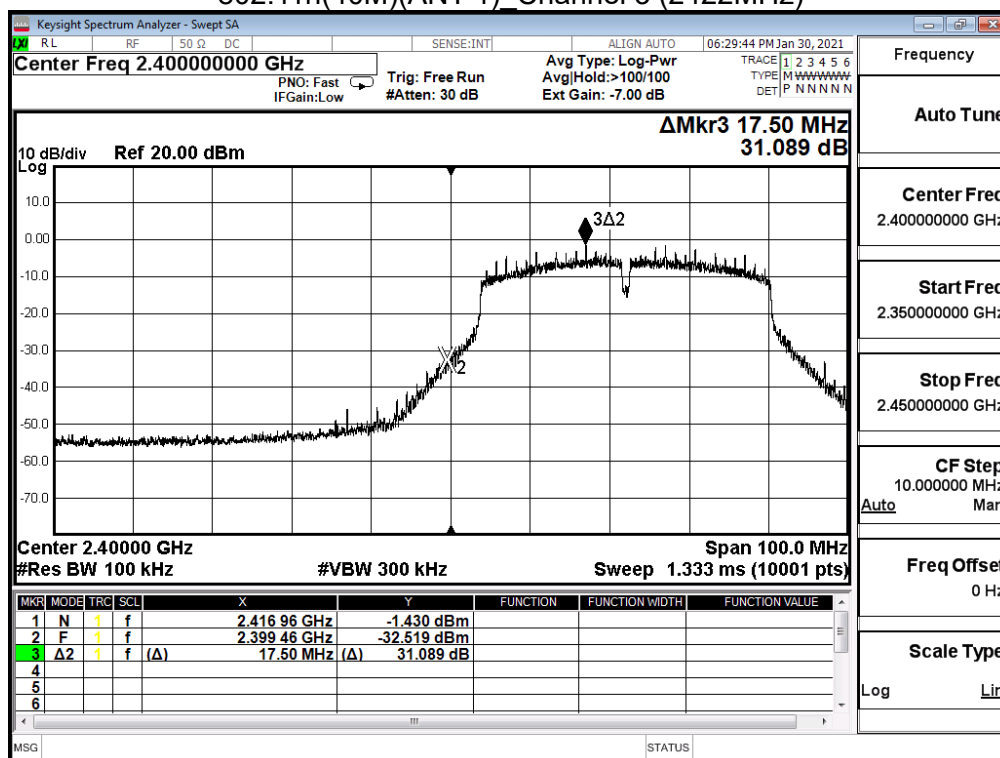
802.11n(40M)(ANT 0) Channel 9 (2452MHz)



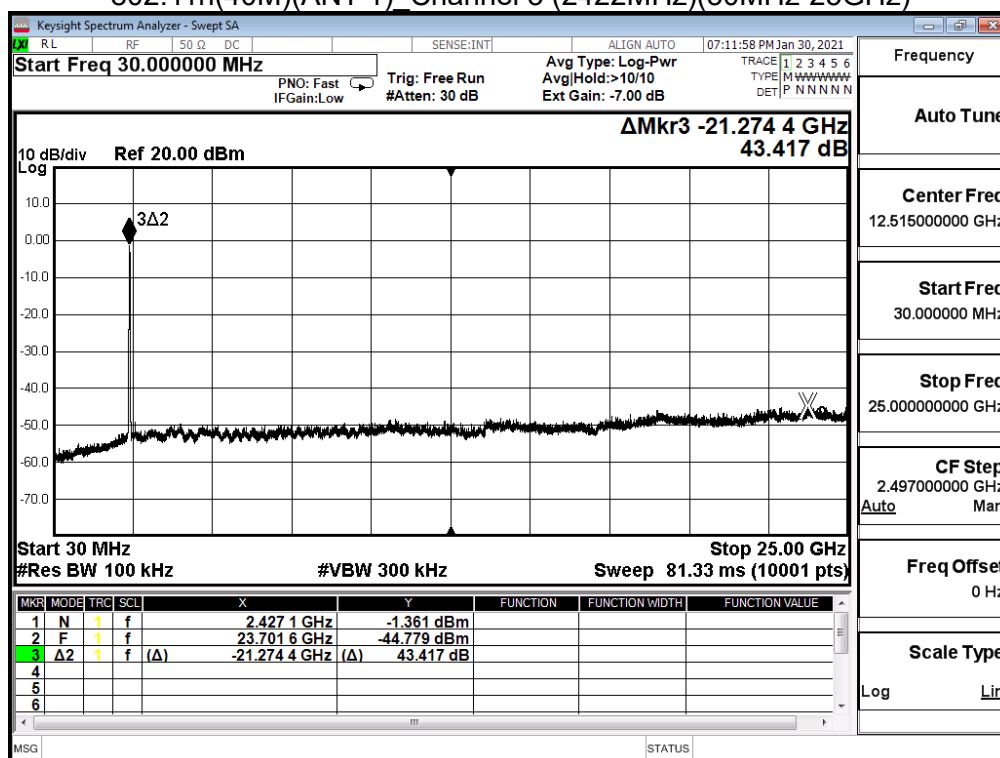
802.11n(40M)(ANT 0) Channel 9 (2452MHz)(30MHz-25GHz)



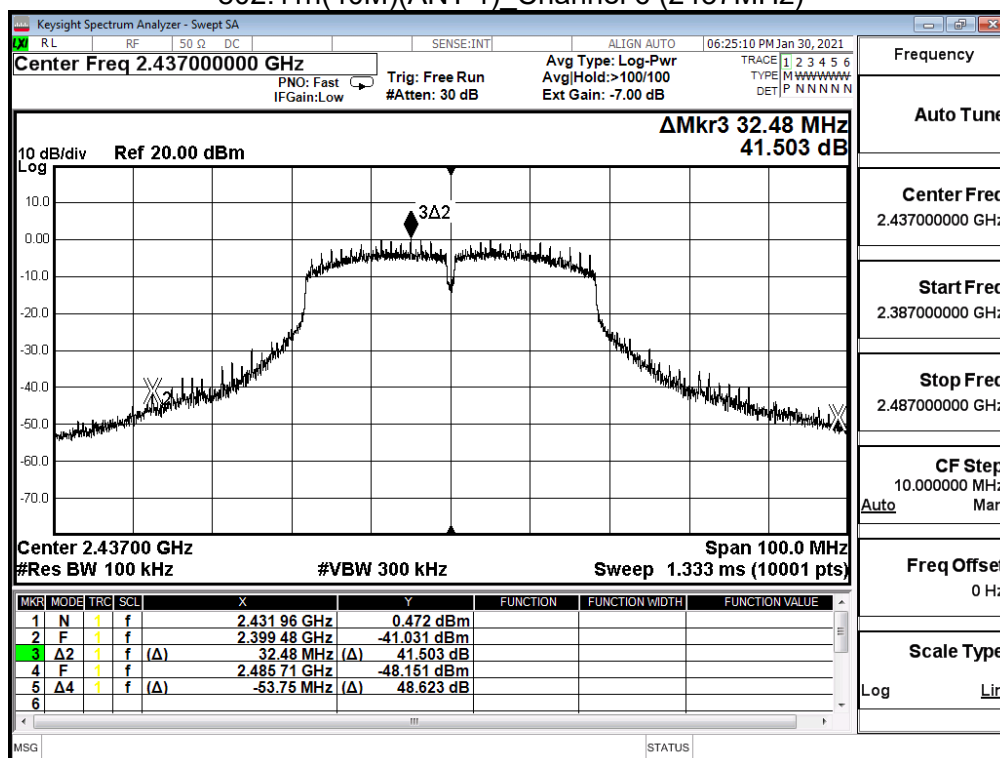
802.11n(40M)(ANT 1) Channel 3 (2422MHz)



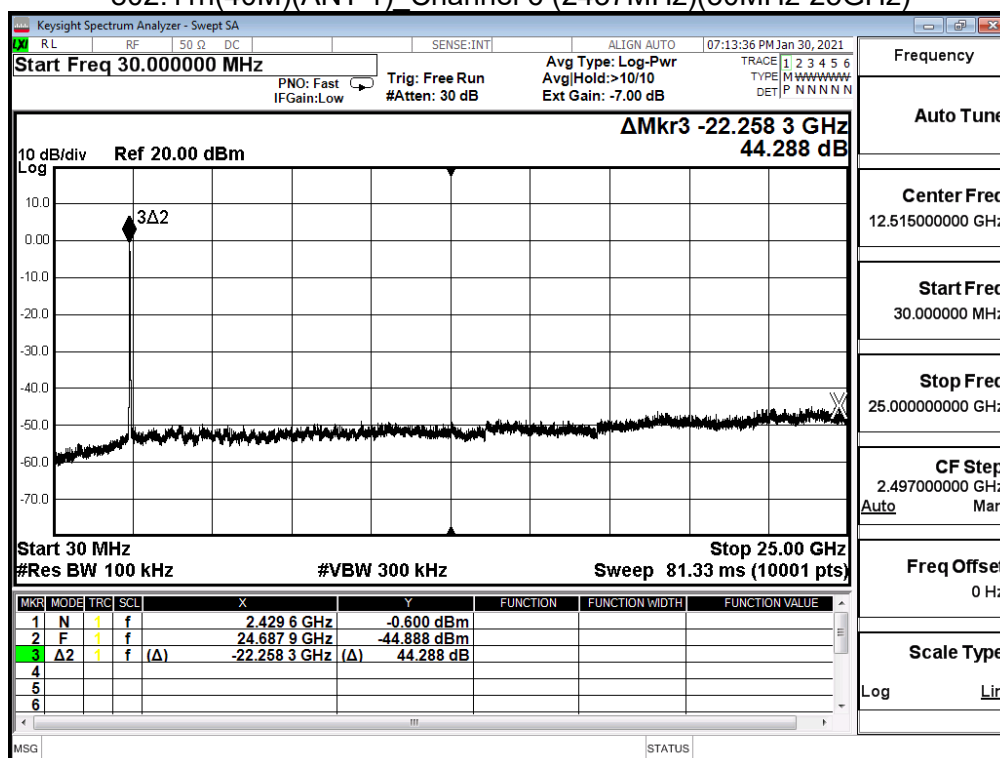
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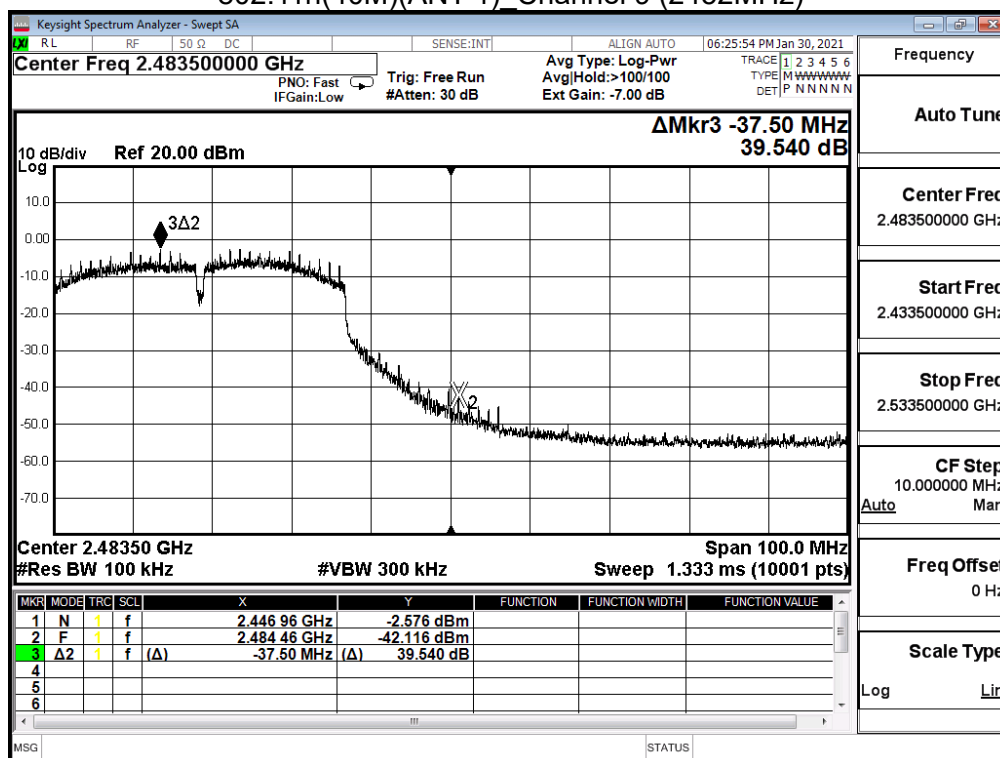
802.11n(40M)(ANT 1) Channel 6 (2437MHz)



802.11n(40M)(ANT 1) Channel 6 (2437MHz)(30MHz-25GHz)



802.11n(40M)(ANT 1) Channel 9 (2452MHz)



802.11n(40M)(ANT 1) Channel 9 (2452MHz)(30MHz-25GHz)

