FCC PART 15.247

TEST REPORT

For

Hangzhou YuShu Technology Co., Ltd.

306 Room, Building 1,88 Dongliu Rd, XiXing Street, Binjiang District, Hangzhou, Zhejiang, China

FCC ID: 2A5PE-YUSHU008

Report Type:	**Product Name:**
Original Report	Humanoid robot

Report Number:	RKSA241202004-00B
Report Date:	2025-02-27
Reviewed By:	Bard Liu
Approved By:	Kyle Xu
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA241202004-00B	R1V1	2025-02-27	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Hangzhou YuShu Technology Co., Ltd.
Tested Model	G1
Product Name	Humanoid robot
Power Supply	DC 46.8V from battery
RF Function:	2.4G Wi-Fi; BLE
Operating Band/Frequency:	2.4G Wi-Fi: 2412~2462 MHz(802.11b/g/n20/ax20), 2422~2452 MHz(802.11n40/ax40) BLE: 2402-2480 MHz
Maximum Peak Output Power:	2.4G Wi-Fi: 802.11b: 18.074 dBm 802.11g: 23.310 dBm 802.11n20: 26.86 dBm 802.11n40: 23.45 dBm 802.11ax20: 27.52 dBm 802.11ax40: 28.74 dBm BLE(1Mbps): 6.46 dBm BLE(2Mbps): 6.61 dBm
Channel Number:	2.4G Wi-Fi: 11(802.11b/g/n20/ax20), 7(802.11n40/ax40) BLE: 40
Channel Separation:	2.4G Wi-Fi: 5 MHz BLE: 2 MHz
Modulation Type:	2.4G Wi-Fi: DSSS, OFDM, OFDMA BLE: GFSK
Antenna Type:	2.4G Wi-Fi: Chip Antenna BLE: Ceramic Antenna
★Maximum Antenna Gain:	2.4G Wi-Fi: 3.0 dBi BLE: 1.5 dBi

Note: The maximum antenna Gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RKSA241202004-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-12-02.)

Objective

This report is prepared for *Hangzhou YuShu Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions' rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel List for BLE mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/

EUT was tested with channel 0, 19 and 39.

Channel List for Wi-Fi Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, 802.11n20, 802.11ax-HE20 mode, EUT was tested with Channel 1, 6 and 11.
802.11n40, 802.11ax-HE40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test tool: QRCT

Pre-scan with all the data rates, and the worst case was performed as below:

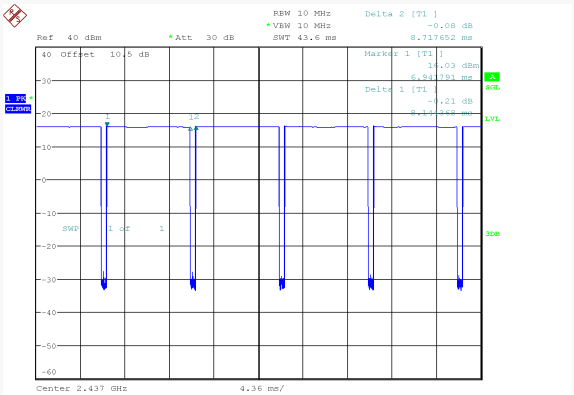
Mode	Data rate	★Power Level					
		Low Channel		Middle Channel		High Channel	
		Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1
802.11b	1Mbps	14	14	14	14	14	14
802.11g	6Mbps	14	14	14	14	14	14
802.11n20	MCS0	14	14	14	14	14	14
802.11ax-HE20	MCS0	14	14	14	14	14	14
802.11n40	MCS0	14	14	14	14	14	14
802.11ax-HE40	MCS0	14	14	14	14	14	14

Mode	Data rate	★Power Level
BLE(1Mbps)	1Mbps	Default
BLE(2Mbps)	2Mbps	Default

Note:
1. The power level was declared by the applicant.
2. 802.11b/g supports SISO, 802.11n20/n40/ax20/ax40 supports SISO and MIMO mode.
For Radiated Emission,according to pretest, the worst case for 802.11n20/n40/ax20/ax40 is MIMO mode.
So 802.11n20/n40/ax20/ax40 MIMO mode test data were recorded in the report.
3. For 802.11ax, the EUT only support full RU not support partial RU.
For Conducted Test:
802.11b & 802.11g &802.11n&802.11ax: each transmit chains were tested.
For Radiated Test:
802.11b & 802.11g, SISO for each transmit chain
802.11n&802.11 ax: MIMO for two transmit chains

Duty Cycle:
Chain 0:

802.11b Mode Middle Channel



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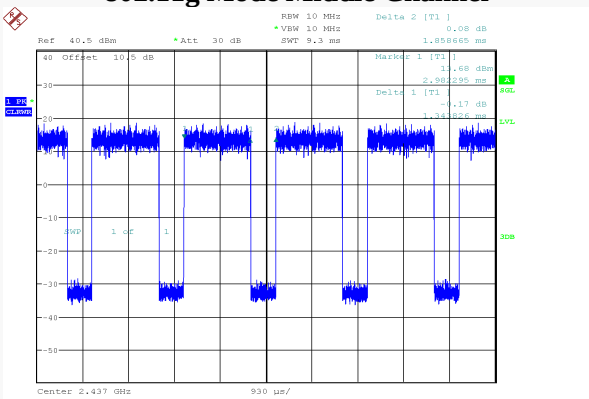
802.11g Mode Middle Channel



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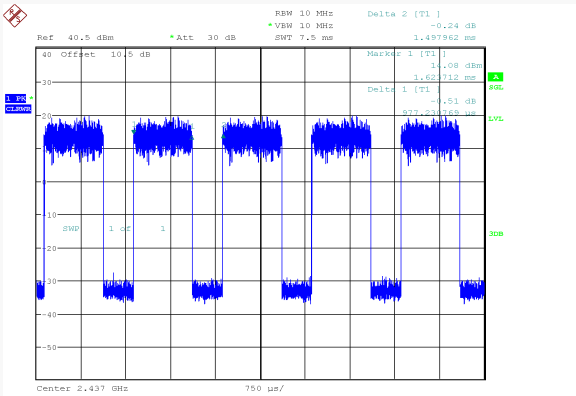
802.11ax20 Mode Middle Channel



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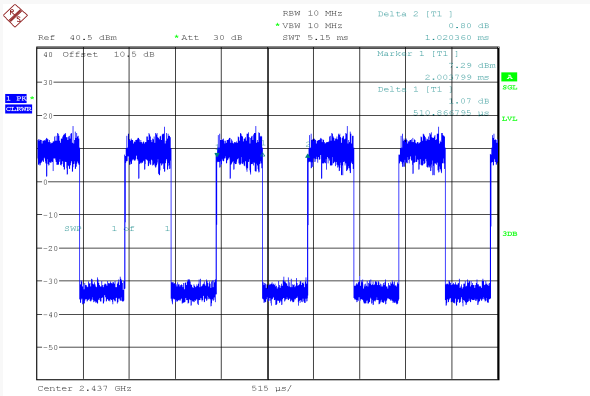
802.11ax40 Mode Middle Channel



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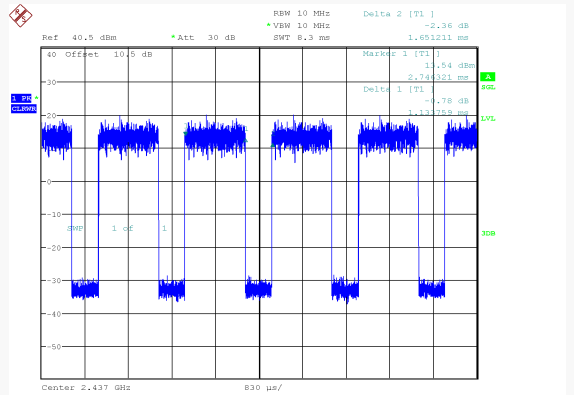
802.11n20 Mode Middle Channel



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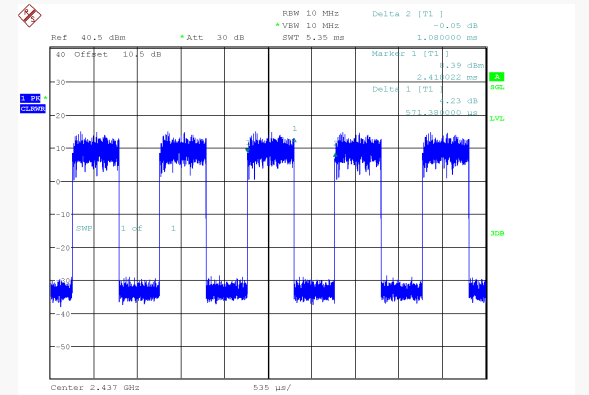
802.11n40 Mode Middle Channel



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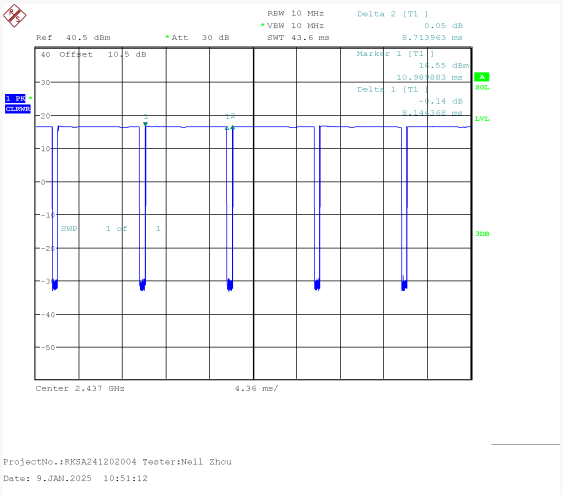
Chain 1:

802.11b Mode Middle Channel



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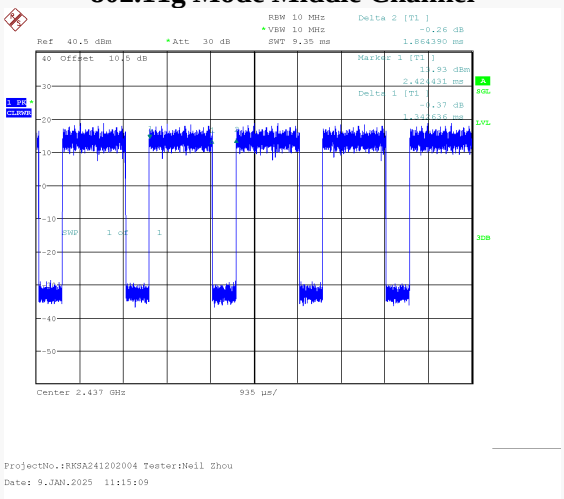
802.11g Mode Middle Channel



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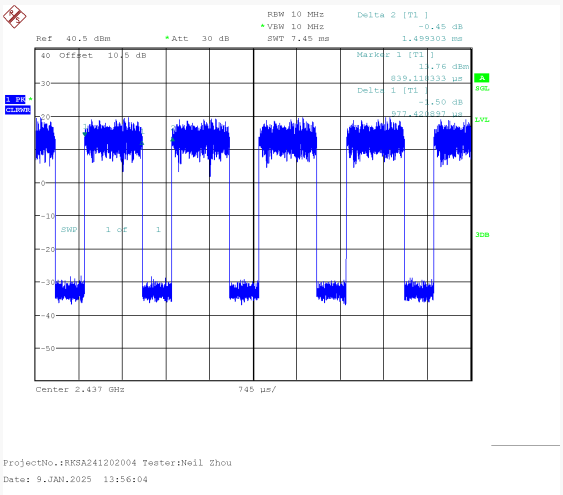
802.11ax20 Mode Middle Channel



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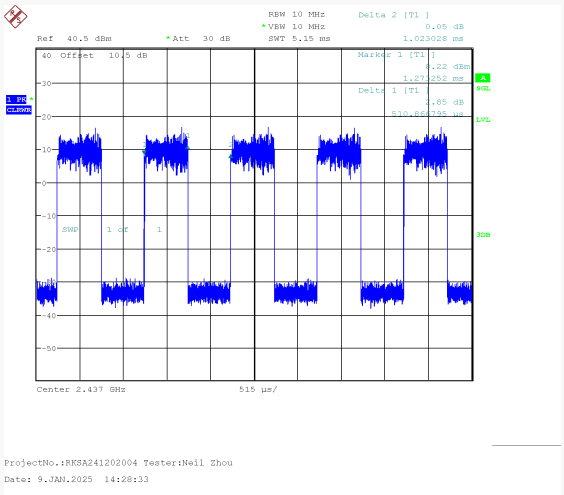
802.11ax40 Mode Middle Channel



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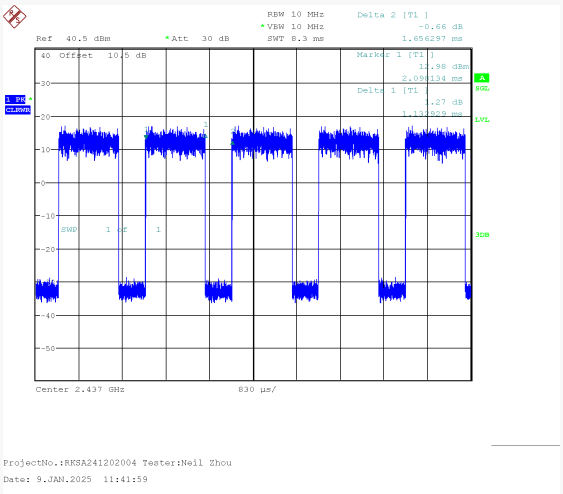
802.11n20 Mode Middle Channel



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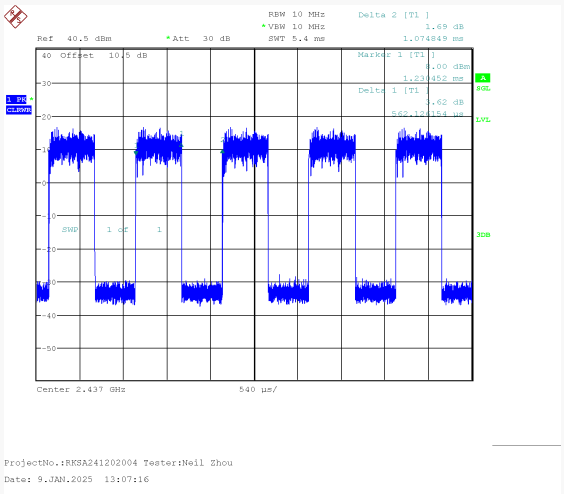
802.11n40 Mode Middle Channel



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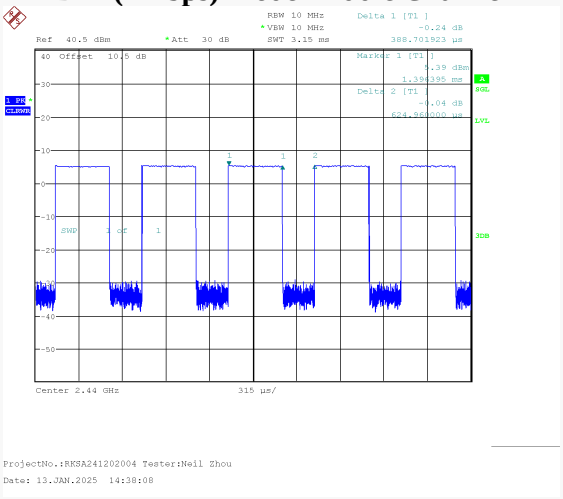
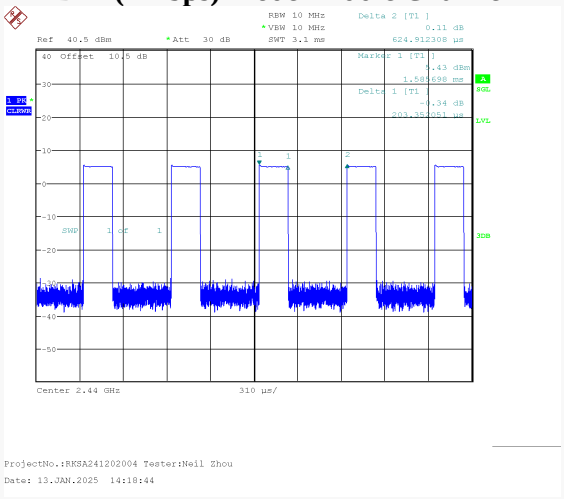
BLE(1Mbps) Mode Middle Channel



BLE(2Mbps) Mode Middle Channel



Test Mode	Channel (MHz)	Ton(ms)	Ton+off(ms)	Duty Cycle(%)	10log(1/x) （dB）
802.11b chain 0	2437	8.144	8.718	93.42	0.30
802.11g chain 0	2437	1.344	1.859	72.30	1.41
802.11ax20 chain 0	2437	0.977	1.498	65.22	1.86
802.11n20 chain 0	2437	1.134	1.651	68.69	1.63
802.11ax40 chain 0	2437	0.511	1.020	50.10	3.00
802.11n40 chain 0	2437	0.571	1.080	52.87	2.77
802.11b chain 1	2437	8.144	8.714	93.46	0.29
802.11g chain 1	2437	1.343	1.864	72.05	1.42
802.11ax20 chain 1	2437	0.977	1.499	65.18	1.86
802.11n20 chain 1	2437	1.133	1.656	68.42	1.65
802.11ax40 chain 1	2437	0.511	1.023	49.95	3.01
802.11n40 chain 1	2437	0.562	1.075	52.28	2.82
BLE(1Mbps)	2440	0.389	0.625	62.24	2.06
BLE(2Mbps)	2440	0.203	0.625	32.48	4.88

Note:
1. “x” means the Duty Cycle.
2. Offset(10.5dB)= Attenuator(10dB)+Cable loss(0.5dB)

Support Equipment List and Details

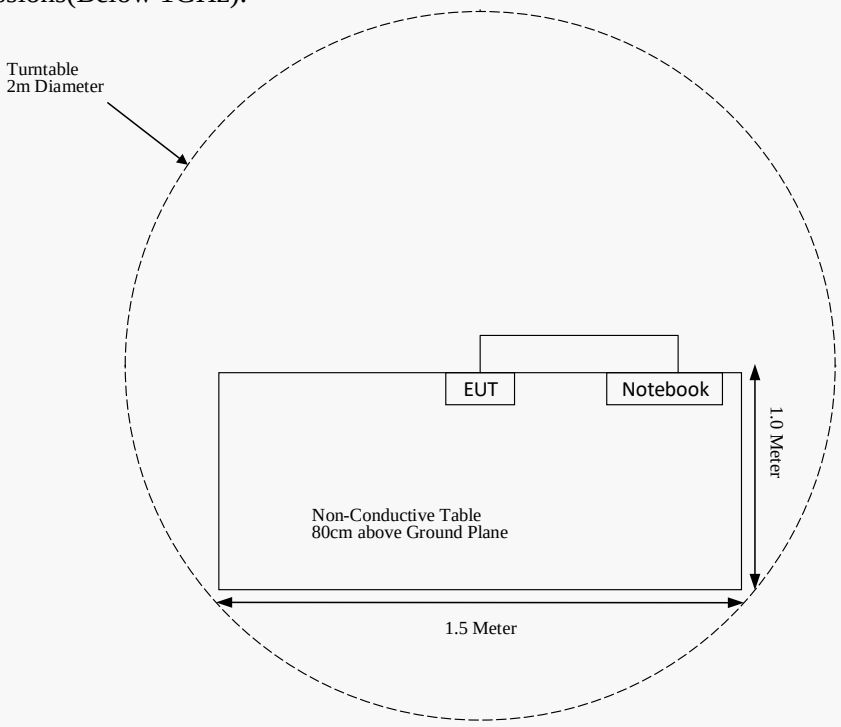
Manufacturer	Description	Model	Serial Number
HP	Notebook	4441s	2CE3130VWY

External I/O Cable

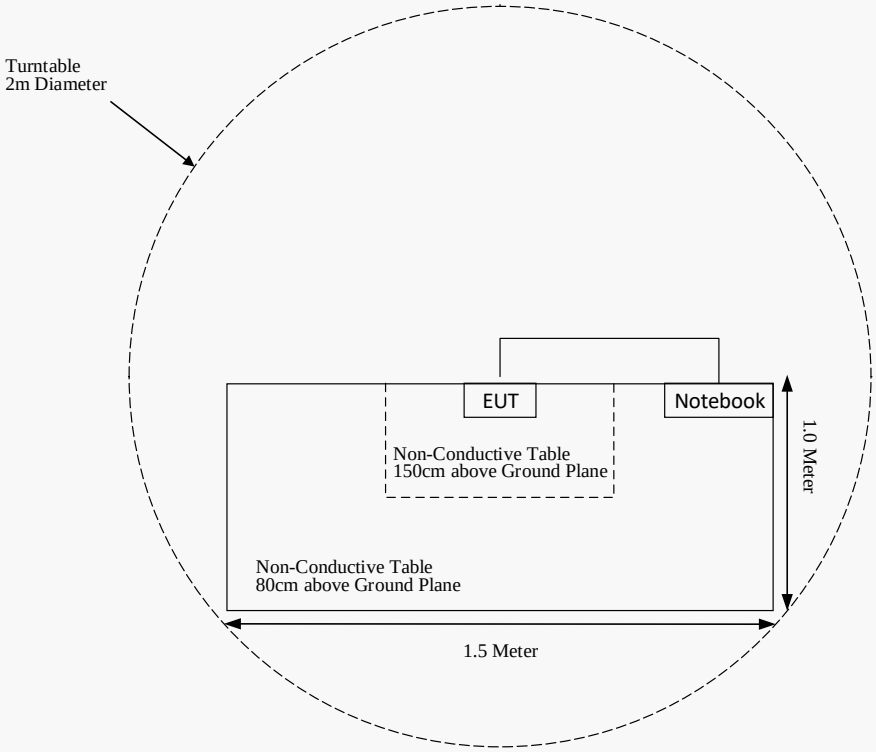
Cable Description	Length(m)	From Port	To
USB Cable	1.0	EUT	Notebook

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (I), §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Not Applicable (See Note)
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note: The EUT powered by battery.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
Sonoma Instrument	Pre-amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-25	2025-04-24
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
SELECTOR	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-04-25	2025-04-24
Narda	Attenuator	10dB	010	2024-04-25	2025-04-24
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2024-04-24	2025-04-23
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-24	2025-04-23
Narda	Attenuator	10dB	010	2024-04-25	2025-04-24
Anritsu	Power Sensor	MA24418A	12621	2024-04-23	2025-04-22
XHFDZ	RG178 Coaxial Cable	SMA-178	XHF-1102	Each time	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f^2)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
LoRa	2400.8-2480	3.0	2.0	5.5	3.55	20	0.0014	1.0	0.0014
2.4G Wi-Fi	2412-2462	3.0	2.0	29	794.33	20	0.3160	1.0	0.3160
5G Wi-Fi	5150-5250	4.2	2.63	22.5	177.83	20	0.0930	1.0	0.0930
	5250-5350	4.2	2.63	22.0	158.49	20	0.0829	1.0	0.0829
	5470-5725	4.2	2.63	22.0	158.49	20	0.0829	1.0	0.0829
	5725-5850	4.2	2.63	23.5	223.87	20	0.1171	1.0	0.1171
BLE	2402-2480	1.5	1.41	7.0	5.01	20	0.0014	1.0	0.0014
Classic BT	2402-2480	1.5	1.41	8.5	7.08	20	0.0020	1.0	0.0020

Note:
1. For the above tune up power were declared by the manufacturer.
2. SRD and 2.4G Wi-Fi/5G WIFI/BT/BLE can transmit simultaneously.

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$= S_{SRD}/S_{limitSRD} + S_{2.4G\ Wi\text{-}Fi}/S_{limit2.4G\ Wi\text{-}Fi}$

$=0.0014+0.3160$

$=0.3174$

< 1.0

Result: The device meet FCC MPE at 20 cm distance.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.
c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The Antenna permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

Function	Antenna Type	Chain	Antenna Gain (dBi)
2.4G Wi-Fi	Chip Antenna	Chain 0	3.0
		Chain 1	3.0

Function	Antenna Type	Antenna Gain (dBi)
BLE	Chip Antenna	1.5

Result: Compliant.

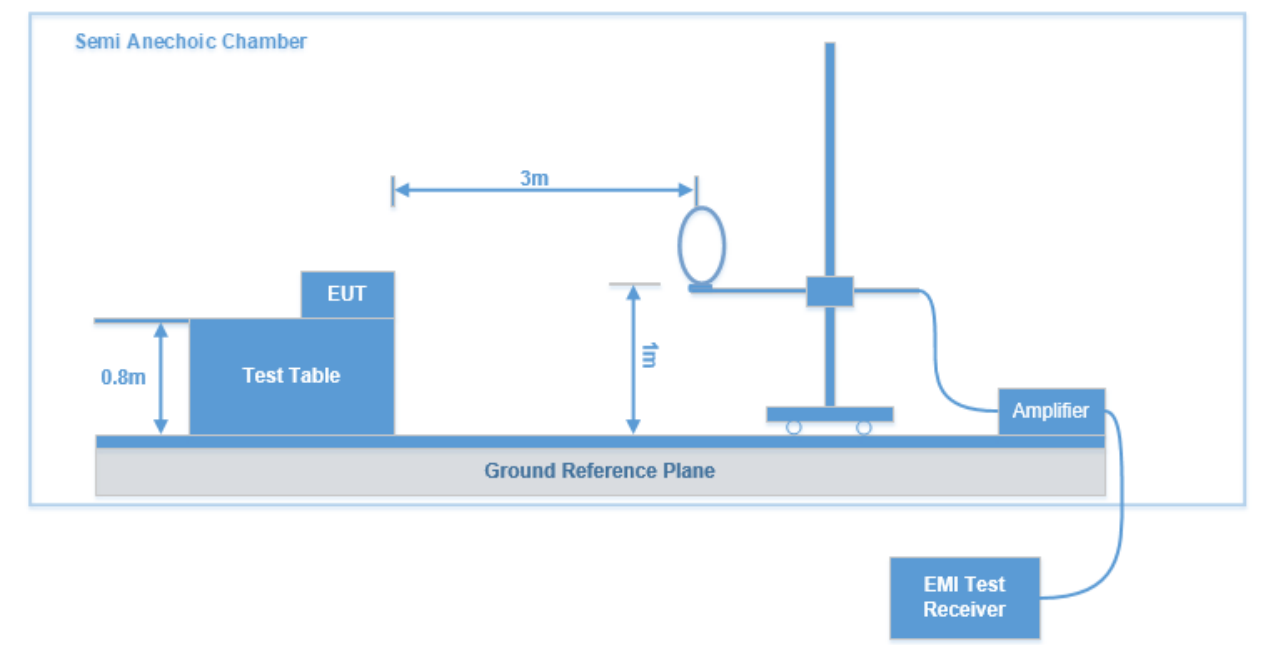
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

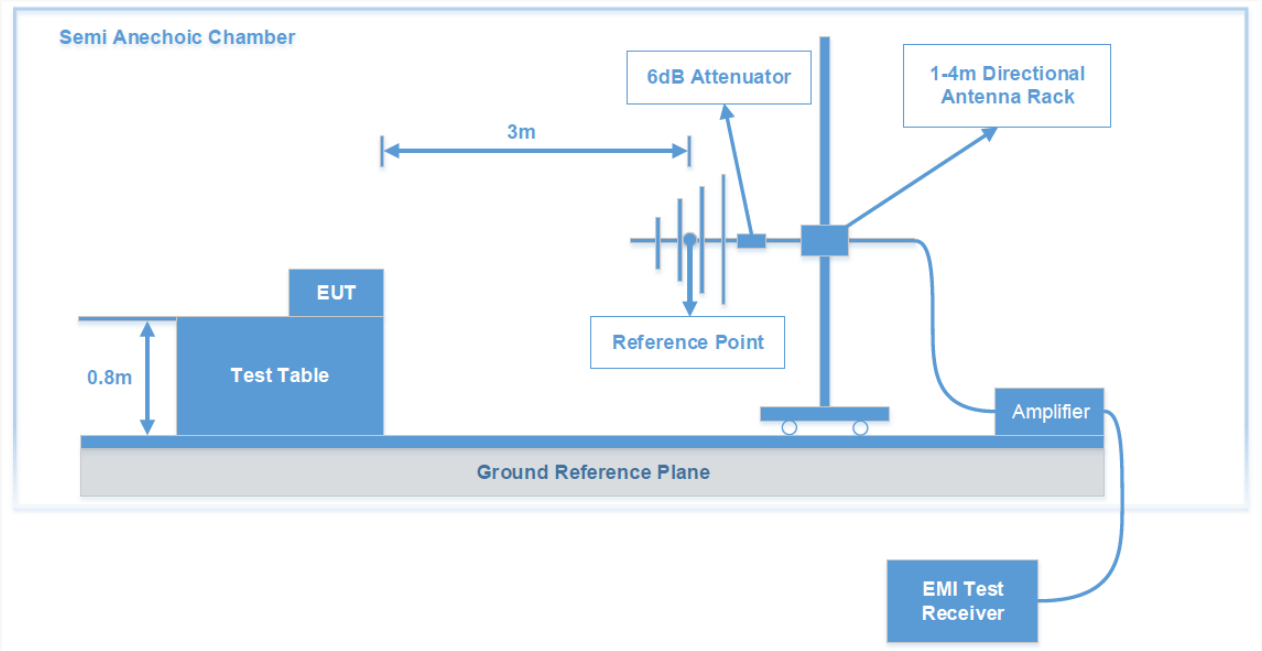
FCC §15.247 (d); §15.209; §15.205;

Test System Setup

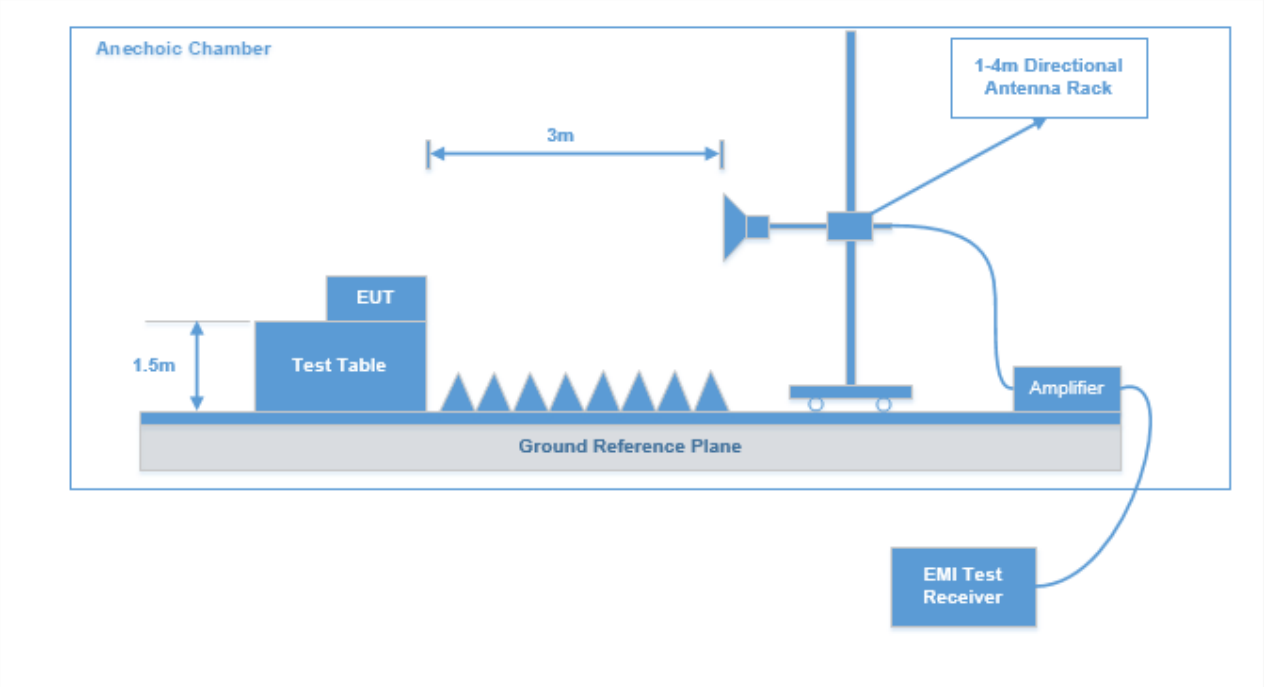
9 kHz-30 MHz:



30 MHz-1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Corrected factor（dB/m）
Corrected factor（dB/m）= Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(A) (2) - 6 DB EMISSION BANDWIDTH

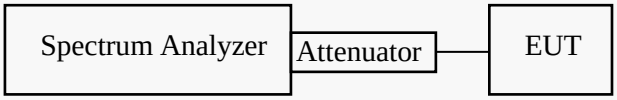
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 * RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

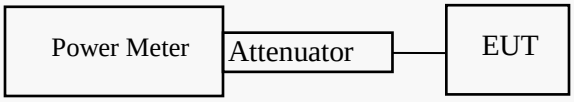
Test Procedure

According to ANSI C63.10-2013 sub-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

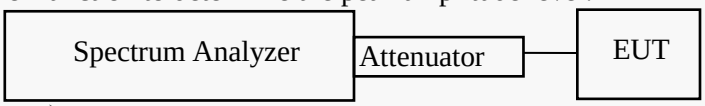
1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

11.9.2.3.2 Method AVGPM-G
Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.



According to ANSI C63.10-2013 sub-clause 11.9.1.1
For BLE:

1. Set the RBW ≥ DTS bandwidth.
2. Set VBW ≥ 3 * RBW.
3. Set span ≥ 3 * RBW
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

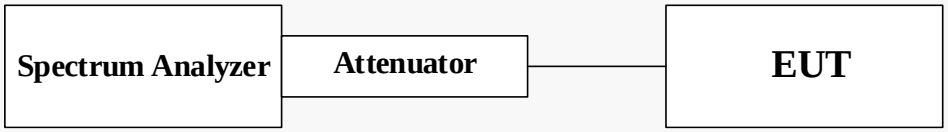
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates Compliant with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2013 sub-clause 6.10.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



NOTE: OFFSET（10.5DB）= ATTENUATOR(10DB)+CABLE LOSS(0.5DB)

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

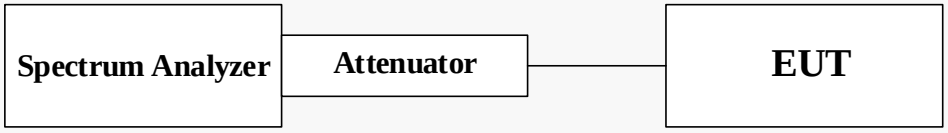
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

1. Set the RBW to: 3kHz≤ RBW≤100 kHz.
2. Set the VBW ≥ 3*RBW.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

APPENDIX - TEST DATA

Environmental Conditions & Test Information

Test Item:	RADIATED EMISSIONS			Duty Cycle	100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE
	9 kHz - 1GHz	1 GHz – 18 GHz	18 GHz - 25 GHz		
Test Date:	2025-01-14	2024-12-18	2025-02-27	2025-01-08 to 2025-01-13	2025-01-08 to 2025-01-13
Temperature:	16.3 ℃	22.8 ℃	22.6 ℃	23.5-23.9 ℃	23.5-23.9 ℃
Relative Humidity:	35 %	53 %	52 %	50-53 %	50-53 %
ATM Pressure:	102.4 kPa	100.5kPa	100.7kPa	100.3-101.6kPa	100.3-101.6kPa
Test Result:	Pass	Pass	Pass	/	Pass
Test Engineer:	Jerry Yan	Destine Hu	Hugh Wu	Neil Zhou	Neil Zhou

Test Item:	6 DB EMISSION BANDWIDTH	POWER SPECTRAL DENSITY	OCCUPIED BANDWIDTH	MAXIMUM CONDUCTED OUTPUT POWER
Test Date:	2025-01-13 to 2025-01-23 to 2025-01-24	2025-01-08 to 2025-01-13	2025-01-08 to 2025-01-13	2025-01-13
Temperature:	24-25.6 ℃	23.5-23.9 ℃	23.5-23.9 ℃	23.9 ℃
Relative Humidity:	52-55 %	50-53 %	50-53 %	50 %
ATM Pressure:	101.5-102.2kPa	100.3-101.6kPa	100.3-101.6kPa	101.6Pa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou	Neil Zhou	Neil Zhou

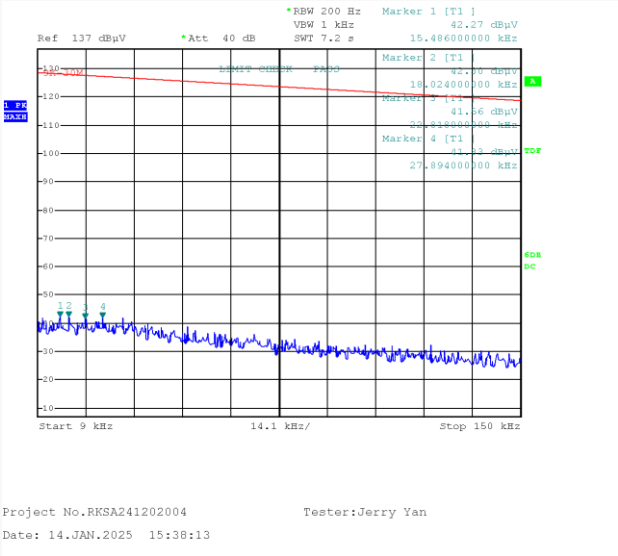
SPURIOUS EMISSIONS

EUT operation mode: Transmitting
After pre-scan in the X, Y and Z axes of orientation, the worst case in the Y axes of orientation is below:

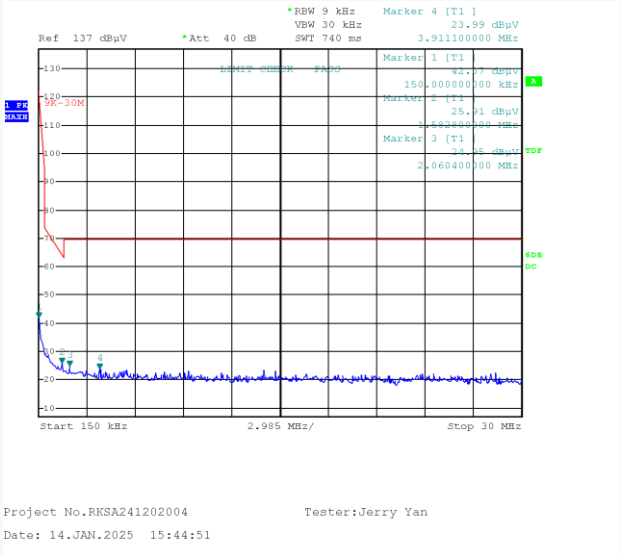
9 kHz - 30 MHz: (Transmitting in maximum output power 802.11 ax-HT40 mode and high channel)

For Wi-Fi Mode:

9kHz-150kHz



150kHz-30MHz



9kHz-150kHz

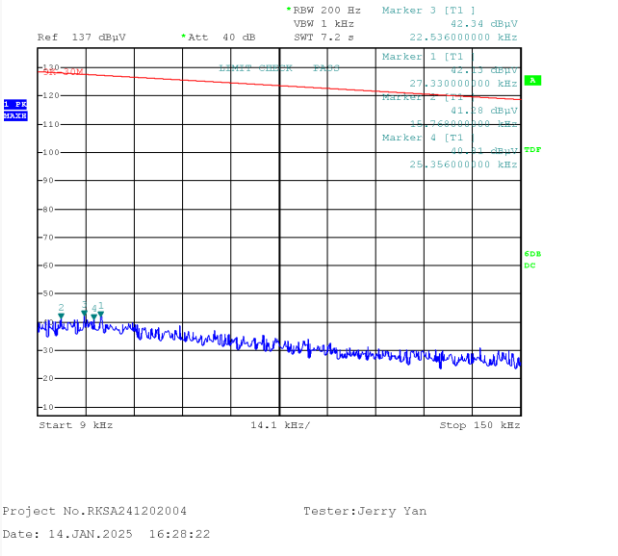
Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.015486	42.27	PK	-0.54	123.81	81.54
0.018024	42.3	PK	-0.55	122.49	80.19
0.022818	41.56	PK	-0.57	120.44	78.88
0.027894	41.83	PK	-0.60	118.69	76.86

150kHz-30MHz

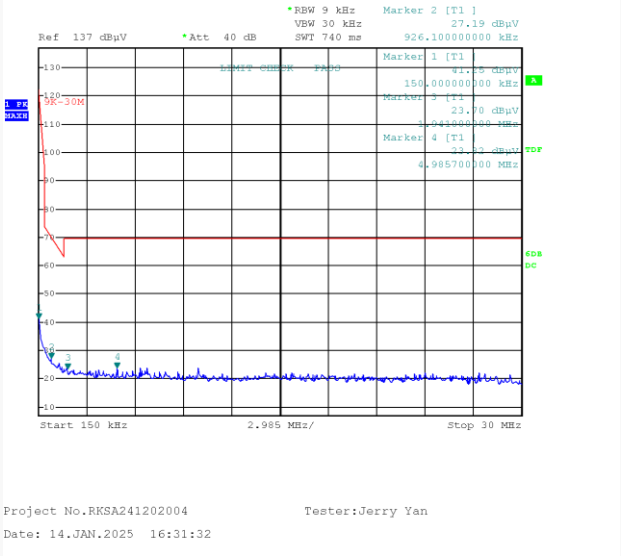
Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.15000	42.07	PK	-11.34	104.08	62.01
1.58280	25.91	PK	-29.53	63.62	37.71
2.06040	24.95	PK	-30.94	69.54	44.59
3.91110	23.99	PK	-31.87	69.54	45.55

For BLE Mode: (Transmitting in maximum output power BLE 2Mpbs mode and low channel)

9kHz-150kHz



150kHz-30MHz



9kHz-150kHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.015768	41.28	PK	-0.54	123.65	82.37
0.022536	42.34	PK	-0.57	120.55	78.21
0.025356	40.81	PK	-0.59	119.52	78.71
0.02733	42.13	PK	-0.60	118.87	76.74

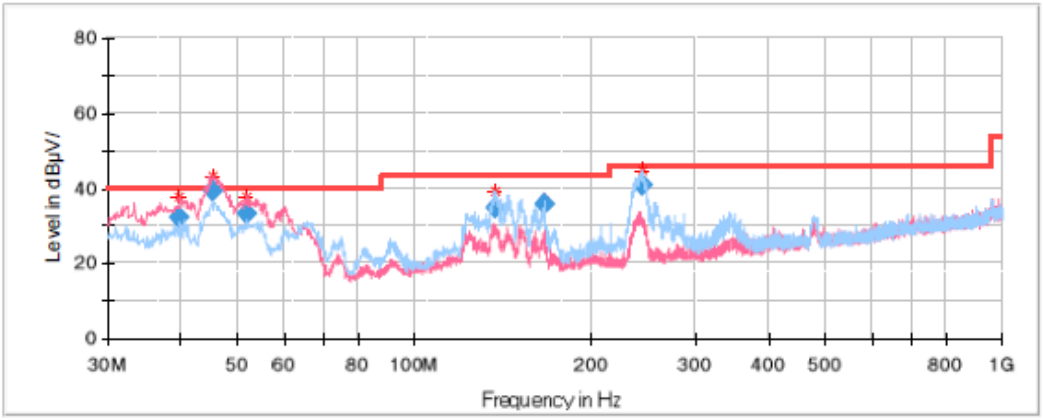
150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.15000	41.25	PK	-11.34	104.08	62.83
0.92610	27.19	PK	-27.09	68.27	41.08
1.94100	23.7	PK	-30.72	69.54	45.84
4.98570	23.82	PK	-32.06	69.54	45.72

For Wi-Fi Mode:
30MHz-1GHz: (Transmitting in maximum output power 802.11 ax-HT40 mode and high channel)

Common Information

Project No:	RKSA241202004
EUT Model:	G1
Test Mode:	2.4G WIFI
Standard:	FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:120 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	16.3℃
Humidity:	35%
Barometric Pressure:	102.4kPa
Test Engineer:	Jerry Yan
Test Date:	2025/1/14



Final_Result

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
39.825000	32.33	40.00	7.67	V	-11.5
45.277900	39.03	40.00	0.97	V	-14.6
51.825350	33.23	40.00	6.77	V	-16.9
137.548000	34.96	43.50	8.54	H	-11.2
165.921000	35.76	43.50	7.74	H	-12.3
244.248450	40.82	46.00	5.18	H	-12.2

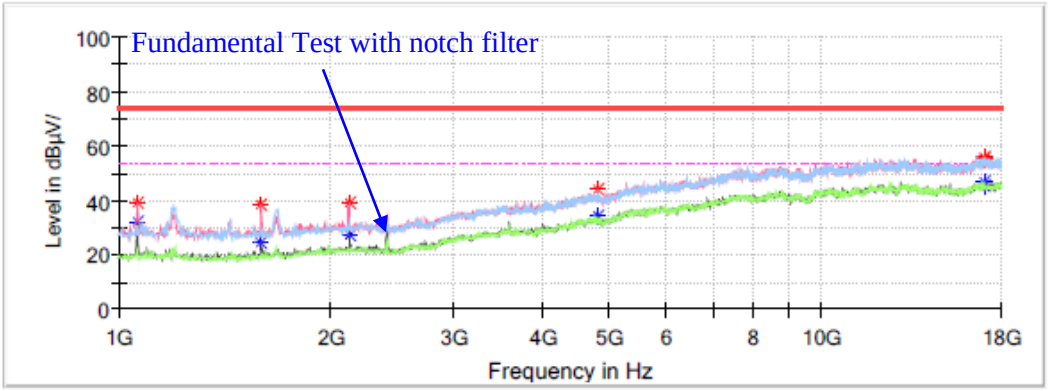
1GHz-18GHz:
Chain 0:
802.11b Mode:

Low Channel: 2412 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



Critical_Freqs

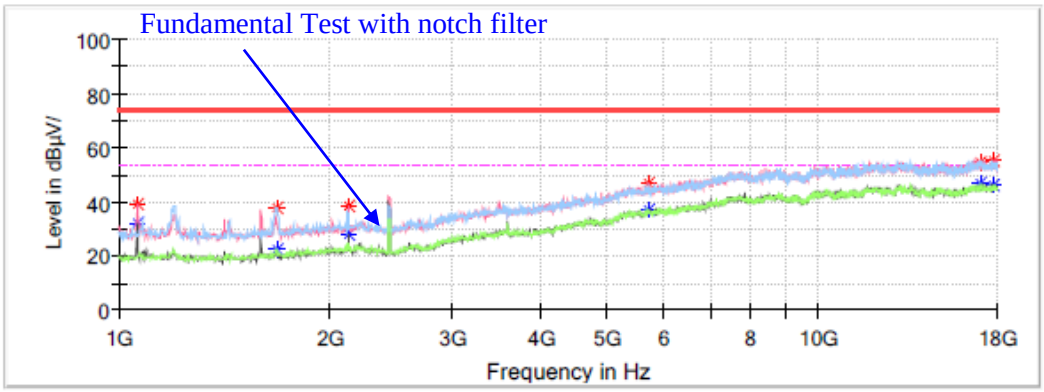
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	31.86	54.00	22.14	V	-15.4
1061.200000	39.13	---	74.00	34.87	V	-15.4
1595.000000	---	24.16	54.00	29.84	V	-14.2
1595.000000	38.76	---	74.00	35.24	V	-14.2
2132.200000	---	27.33	54.00	26.67	V	-11.3
2132.200000	39.37	---	74.00	34.63	V	-11.3
4797.800000	---	34.15	54.00	19.85	V	-3.2
4797.800000	44.03	---	74.00	29.97	V	-3.2
17003.800000	---	47.16	54.00	6.84	H	12.3
17003.800000	54.99	---	74.00	19.01	H	12.3
17061.600000	55.70	---	74.00	18.30	H	12.2
17061.600000	---	45.31	54.00	8.69	H	12.2

Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



Critical_Freqs

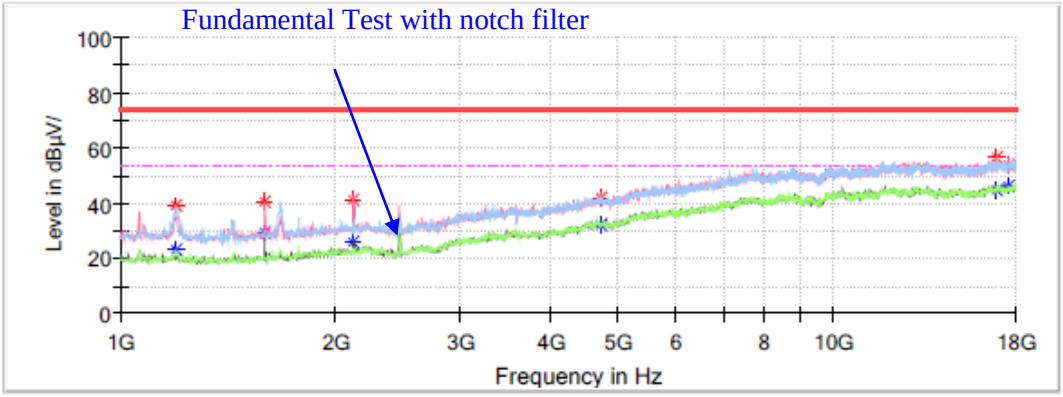
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	32.46	54.00	21.54	V	-15.4
1061.200000	39.39	---	74.00	34.61	V	-15.4
1680.000000	---	22.37	54.00	31.63	H	-13.7
1680.000000	37.91	---	74.00	36.09	H	-13.7
2128.800000	---	27.68	54.00	26.32	V	-11.3
2128.800000	38.47	---	74.00	35.53	V	-11.3
5705.600000	---	36.88	54.00	17.12	V	-0.2
5705.600000	46.83	---	74.00	27.17	V	-0.2
16986.800000	54.53	---	74.00	19.47	H	12.2
16986.800000	---	46.77	54.00	7.23	H	12.2
17809.600000	55.45	---	74.00	18.55	V	11.8
17809.600000	---	46.06	54.00	7.94	V	11.8

High Channel: 2462 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



Critical_Freqs

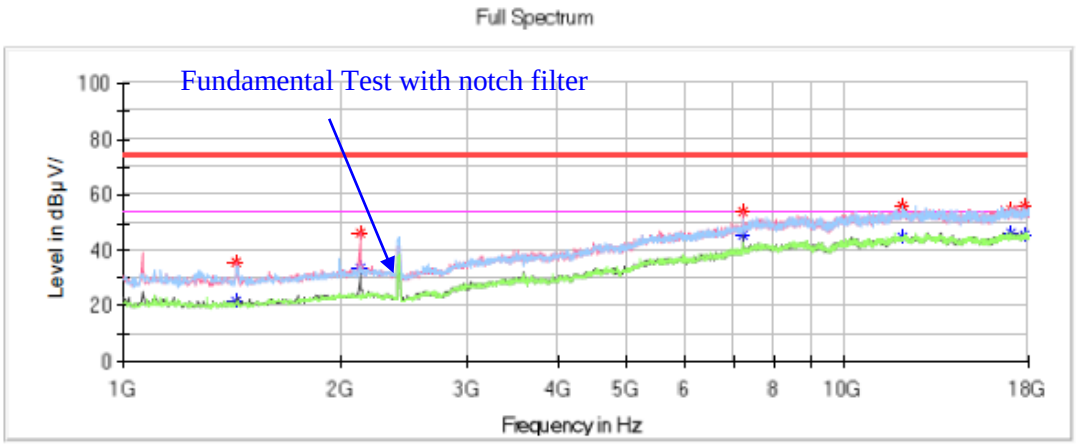
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	---	22.75	54.00	31.25	H	-15.2
1197.200000	39.06	---	74.00	34.94	H	-15.2
1591.600000	---	29.63	54.00	24.37	V	-14.2
1591.600000	40.25	---	74.00	33.75	V	-14.2
2122.000000	41.15	---	74.00	32.85	V	-11.4
2122.000000	---	25.95	54.00	28.05	V	-11.4
4723.000000	---	32.40	54.00	21.60	V	-3.4
4723.000000	42.24	---	74.00	31.76	V	-3.4
16939.200000	---	45.05	54.00	8.95	H	12.1
16939.200000	56.89	---	74.00	17.11	H	12.1
17605.600000	---	46.26	54.00	7.74	V	11.6
17605.600000	53.77	---	74.00	20.23	V	11.6

802.11g Mode:

Low Channel: 2412 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



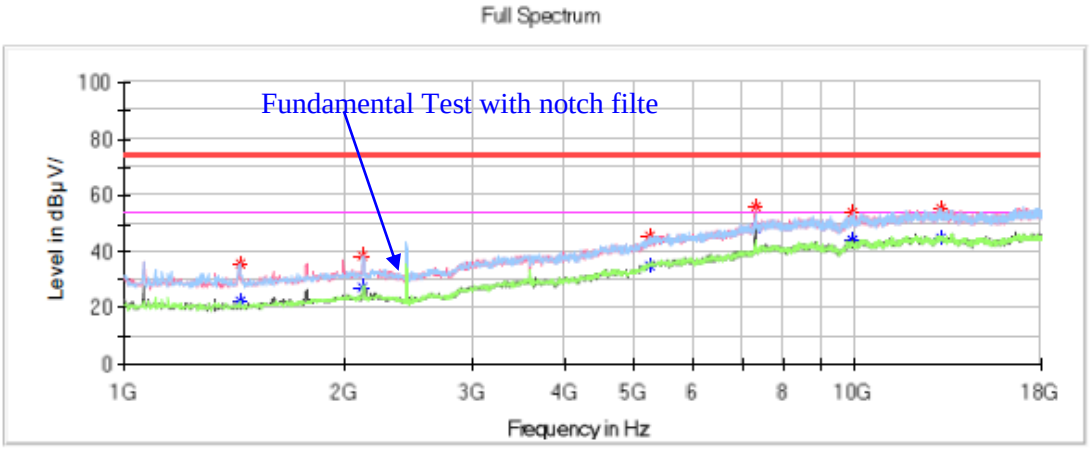
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.72	54.00	32.28	V	-14.8
1435.200000	35.46	---	74.00	38.54	V	-14.8
2128.800000	---	33.67	54.00	20.33	V	-11.3
2128.800000	46.00	---	74.00	28.00	V	-11.3
7235.600000	---	45.79	54.00	8.21	V	3.2
7235.600000	53.85	---	74.00	20.15	V	3.2
12053.400000	---	44.86	54.00	9.14	H	9.0
12053.400000	55.78	---	74.00	18.22	H	9.0
17020.800000	---	46.50	54.00	7.50	H	12.2
17020.800000	54.70	---	74.00	19.30	H	12.2
17796.000000	---	45.22	54.00	8.78	V	11.8
17796.000000	56.25	---	74.00	17.75	V	11.8

Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



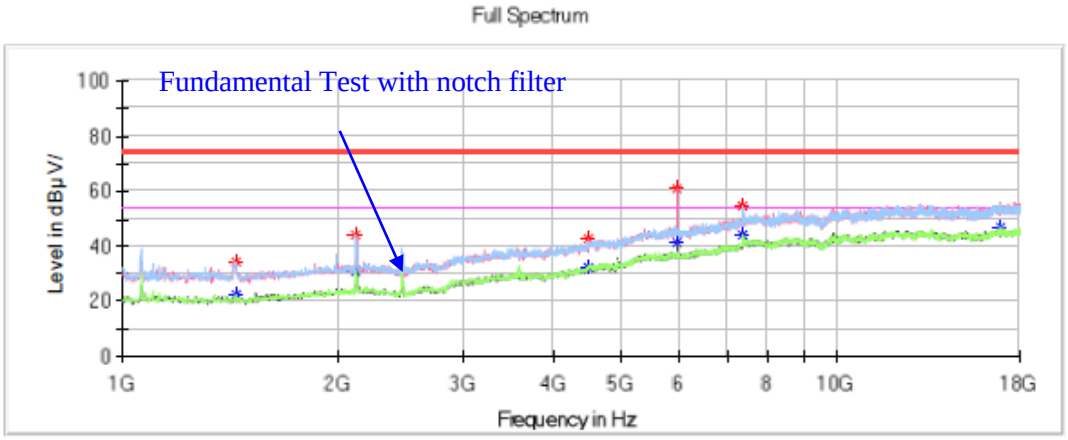
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	22.15	54.00	31.85	H	-14.8
1438.600000	35.33	---	74.00	38.67	H	-14.8
2122.000000	---	27.40	54.00	26.60	H	-11.4
2122.000000	38.53	---	74.00	35.47	H	-11.4
5222.800000	---	35.13	54.00	18.87	H	-1.5
5222.800000	45.59	---	74.00	28.41	H	-1.5
7313.800000	---	48.11	54.00	5.89	V	3.4
7313.800000	55.91	---	74.00	18.09	V	3.4
9918.200000	---	43.79	54.00	10.21	V	6.9
9918.200000	54.06	---	74.00	19.94	V	6.9
13117.600000	---	44.62	54.00	9.38	H	9.7
13117.600000	55.49	---	74.00	18.51	H	9.7

High Channel: 2462 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	22.60	54.00	31.40	V	-14.8
1438.600000	34.30	---	74.00	39.70	V	-14.8
2122.000000	43.82	---	74.00	30.18	H	-11.4
2122.000000	---	30.55	54.00	23.45	H	-11.4
4488.400000	42.97	---	74.00	31.03	V	-4.3
4488.400000	---	32.36	54.00	21.64	V	-4.3
5981.000000	---	41.27	54.00	12.73	V	0.0
5981.000000	60.54	---	74.00	13.46	V	0.0
7388.600000	54.38	---	74.00	19.62	H	3.6
7388.600000	---	43.98	54.00	10.02	H	3.6
16956.200000	---	46.63	54.00	7.37	H	12.1
16956.200000	53.46	---	74.00	20.54	H	12.1

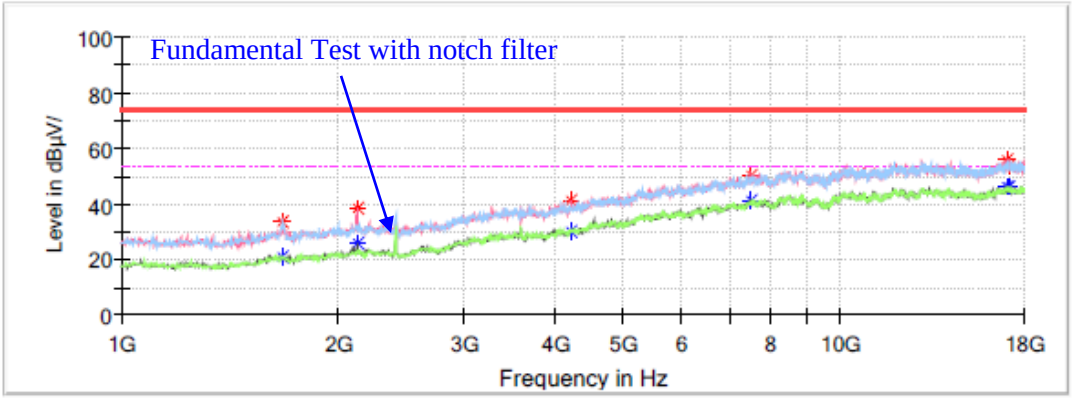
Chain 1:
802.11b Mode:

Low Channel: 2412 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



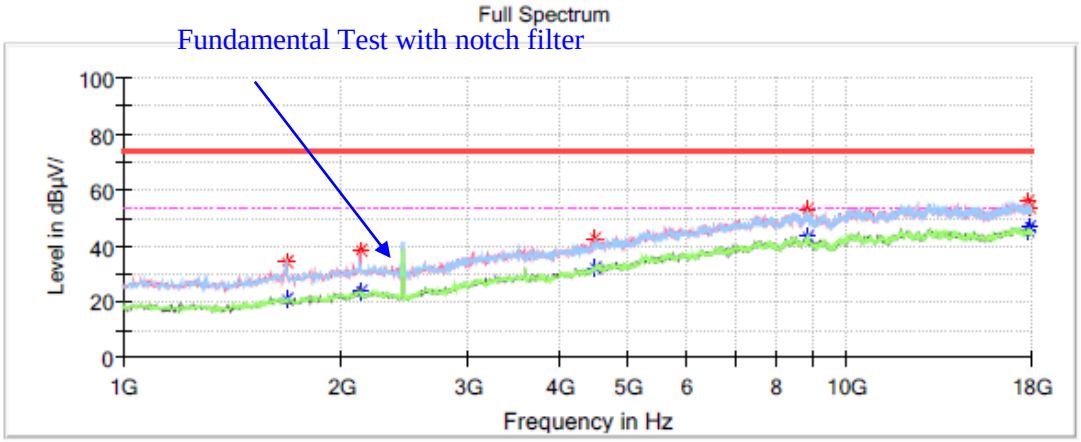
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1676.600000	---	20.99	54.00	33.01	V	-13.7
1676.600000	33.89	---	74.00	40.11	V	-13.7
2128.800000	---	25.68	54.00	28.32	V	-11.3
2128.800000	38.18	---	74.00	35.82	V	-11.3
4219.800000	---	30.41	54.00	23.59	H	-5.2
4219.800000	41.14	---	74.00	32.86	H	-5.2
7528.000000	---	41.12	54.00	12.88	V	3.9
7528.000000	50.66	---	74.00	23.34	V	3.9
17031.000000	55.62	---	74.00	18.38	V	12.2
17031.000000	---	45.94	54.00	8.06	V	12.2
17153.400000	53.87	---	74.00	20.13	H	12.0
17153.400000	---	46.47	54.00	7.53	H	12.0

Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



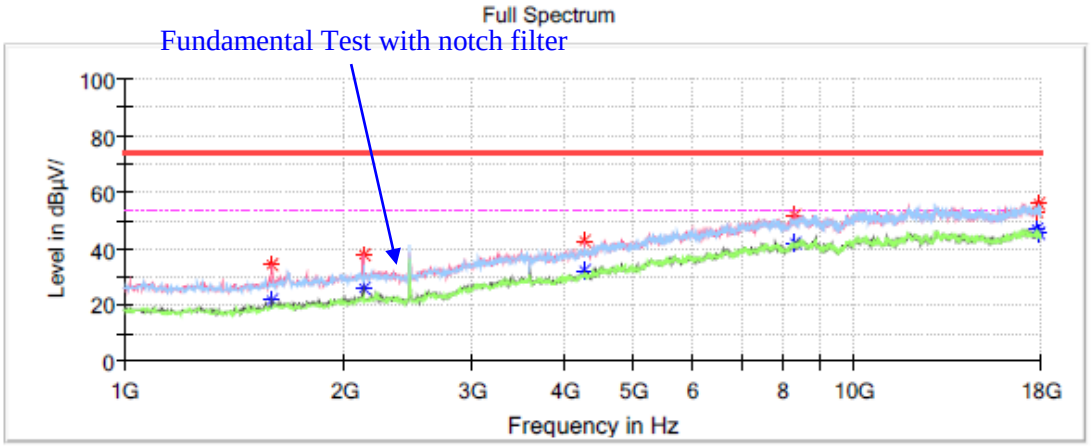
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1680.000000	---	20.83	54.00	33.17	H	-13.7
1680.000000	34.05	---	74.00	39.95	H	-13.7
2132.200000	---	23.89	54.00	30.11	V	-11.3
2132.200000	38.28	---	74.00	35.72	V	-11.3
4481.600000	---	32.46	54.00	21.54	H	-4.3
4481.600000	42.32	---	74.00	31.68	H	-4.3
8840.400000	---	43.06	54.00	10.94	V	5.4
8840.400000	53.42	---	74.00	20.58	V	5.4
17802.800000	56.24	---	74.00	17.76	V	11.8
17802.800000	---	45.23	54.00	8.77	V	11.8
17911.600000	54.06	---	74.00	19.94	H	11.9
17911.600000	---	46.62	54.00	7.38	H	11.9

High Channel: 2462 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1595.000000	34.36	---	74.00	39.64	V	-14.2
1595.000000	---	21.70	54.00	32.30	V	-14.2
2125.400000	38.00	---	74.00	36.00	V	-11.3
2125.400000	---	25.72	54.00	28.28	V	-11.3
4264.000000	42.38	---	74.00	31.62	V	-5.0
4264.000000	---	31.96	54.00	22.04	V	-5.0
8313.400000	---	41.70	54.00	12.30	V	4.9
8313.400000	51.46	---	74.00	22.54	V	4.9
17802.800000	53.34	---	74.00	20.66	H	11.8
17802.800000	---	46.79	54.00	7.21	H	11.8
17836.800000	55.83	---	74.00	18.17	H	11.8
17836.800000	---	45.47	54.00	8.53	H	11.8

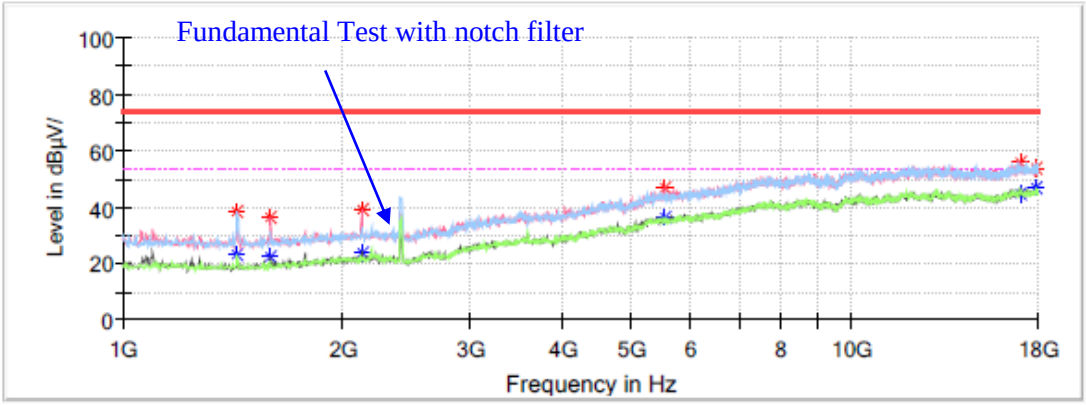
802.11g Mode:

Low Channel: 2412 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



Critical_Freqs

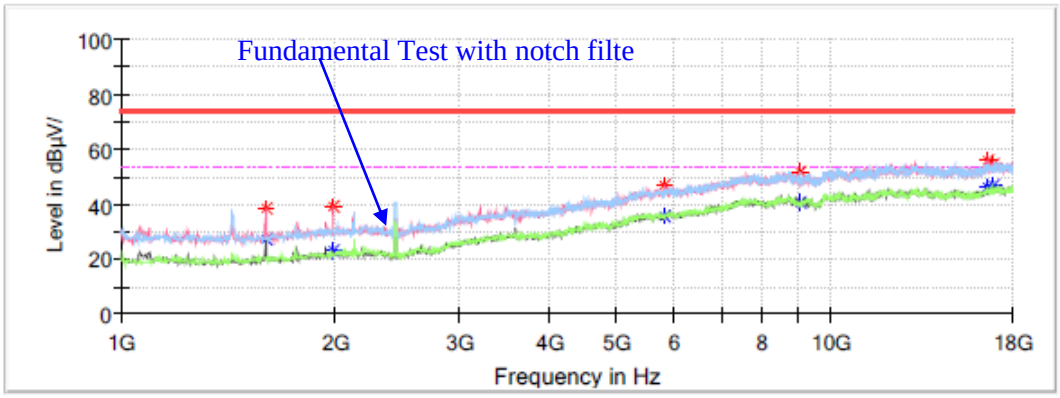
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	23.40	54.00	30.60	H	-14.8
1435.200000	38.79	---	74.00	35.21	H	-14.8
1595.000000	---	22.17	54.00	31.83	V	-14.2
1595.000000	36.59	---	74.00	37.41	V	-14.2
2125.400000	---	23.99	54.00	30.01	V	-11.3
2125.400000	38.94	---	74.00	35.06	V	-11.3
5542.400000	---	36.56	54.00	17.44	V	-0.3
5542.400000	47.00	---	74.00	27.00	V	-0.3
17051.400000	---	44.95	54.00	9.05	V	12.2
17051.400000	55.71	---	74.00	18.29	V	12.2
17847.000000	54.13	---	74.00	19.87	H	11.8
17847.000000	---	46.73	54.00	7.27	H	11.8

Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



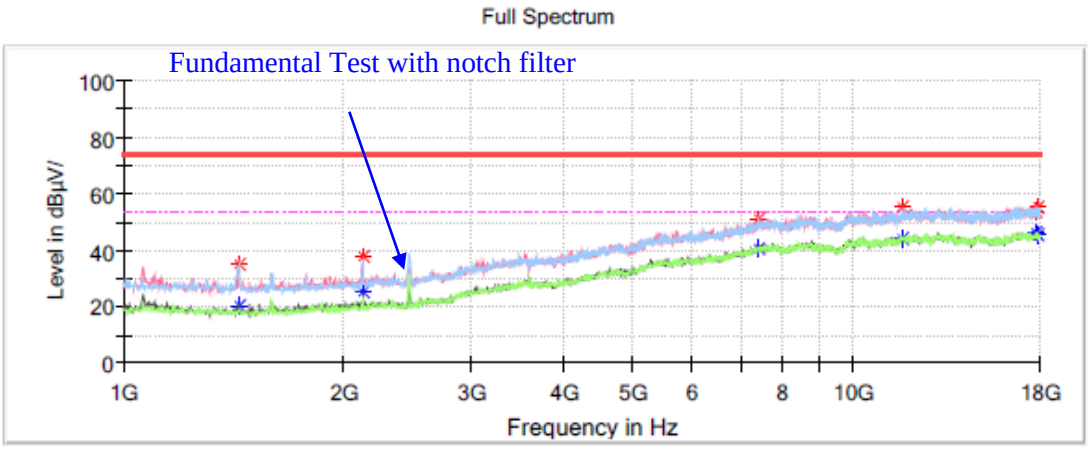
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1598.400000	---	26.97	54.00	27.03	V	-14.1
1598.400000	38.61	---	74.00	35.39	V	-14.1
1989.400000	---	23.09	54.00	30.91	V	-11.8
1989.400000	39.16	---	74.00	34.84	V	-11.8
5821.200000	---	35.96	54.00	18.04	V	-0.1
5821.200000	46.91	---	74.00	27.09	V	-0.1
9027.400000	---	40.33	54.00	13.67	H	5.4
9027.400000	51.73	---	74.00	22.27	H	5.4
16582.200000	56.14	---	74.00	17.86	V	11.0
16582.200000	---	46.30	54.00	7.70	V	11.0
16952.800000	54.23	---	74.00	19.77	H	12.1
16952.800000	---	46.84	54.00	7.16	H	12.1

High Channel: 2462 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

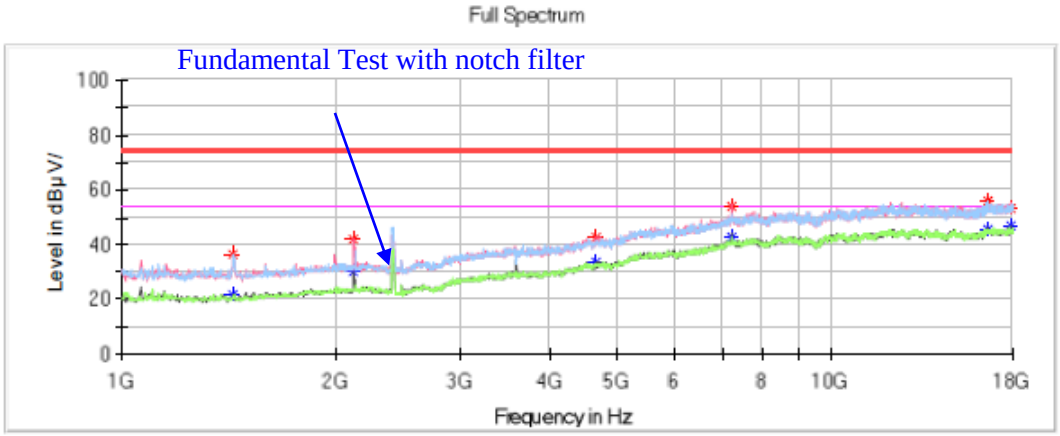
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	20.19	54.00	33.81	V	-14.8
1438.600000	34.89	---	74.00	39.11	V	-14.8
2132.200000	---	24.94	54.00	29.06	V	-11.3
2132.200000	37.83	---	74.00	36.17	V	-11.3
7392.000000	---	40.57	54.00	13.43	H	3.6
7392.000000	51.31	---	74.00	22.69	H	3.6
11628.400000	---	43.83	54.00	10.17	V	8.9
11628.400000	55.50	---	74.00	18.50	V	8.9
17765.400000	---	46.33	54.00	7.67	H	11.8
17765.400000	53.66	---	74.00	20.34	H	11.8
17925.200000	---	45.32	54.00	8.68	V	11.9
17925.200000	55.58	---	74.00	18.42	V	11.9

Chain 0+Chain 1:
802.11n20 Mode:

Low Channel : 2412 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n20 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.60	54.00	32.40	H	-14.8
1435.200000	36.23	---	74.00	37.77	H	-14.8
2122.000000	---	30.13	54.00	23.87	V	-11.4
2122.000000	41.96	---	74.00	32.04	V	-11.4
4658.400000	---	33.36	54.00	20.64	V	-3.7
4658.400000	42.69	---	74.00	31.31	V	-3.7
7239.000000	---	42.83	54.00	11.17	V	3.2
7239.000000	53.84	---	74.00	20.16	V	3.2
16599.200000	55.75	---	74.00	18.25	H	11.1
16599.200000	---	45.38	54.00	8.62	H	11.1
17891.200000	53.05	---	74.00	20.95	V	11.9
17891.200000	---	46.53	54.00	7.47	V	11.9

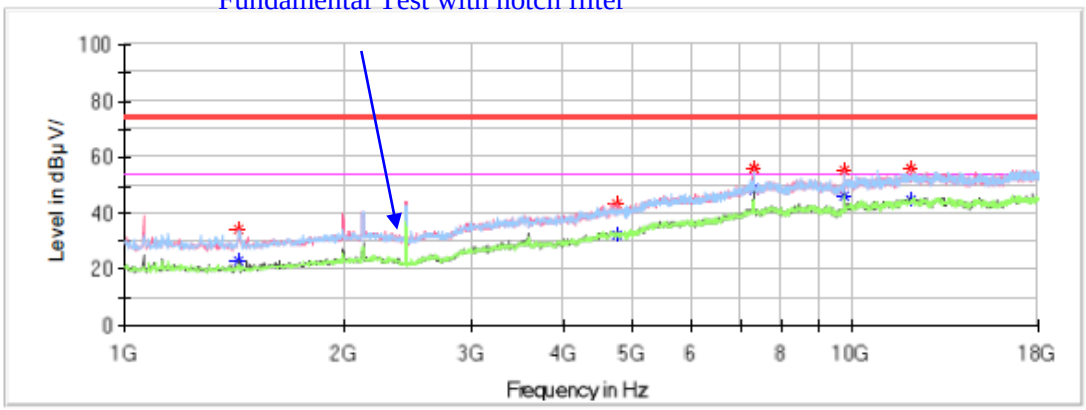
Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n20 middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum

Fundamental Test with notch filter



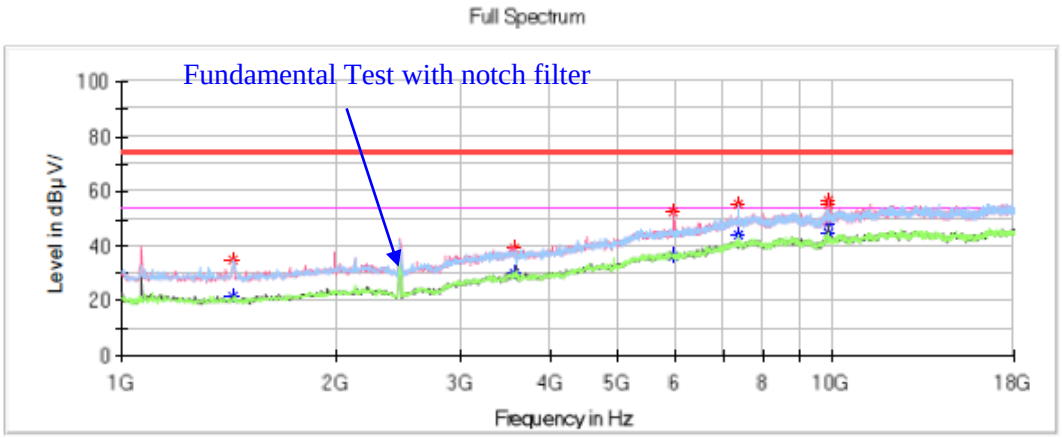
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	34.13	---	74.00	39.87	V	-14.8
1435.200000	---	22.88	54.00	31.12	V	-14.8
4757.000000	---	32.34	54.00	21.66	H	-3.3
4757.000000	43.29	---	74.00	30.71	H	-3.3
7310.400000	---	47.99	54.00	6.01	V	3.4
7310.400000	55.90	---	74.00	18.10	V	3.4
7320.600000	---	48.91	54.00	5.09	V	3.4
7320.600000	55.83	---	74.00	18.17	V	3.4
9751.600000	55.01	---	74.00	18.99	H	6.3
9751.600000	---	45.90	54.00	8.10	H	6.3
12053.400000	55.82	---	74.00	18.18	V	9.0
12053.400000	---	44.48	54.00	9.52	V	9.0

High Channel : 2462 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n20 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

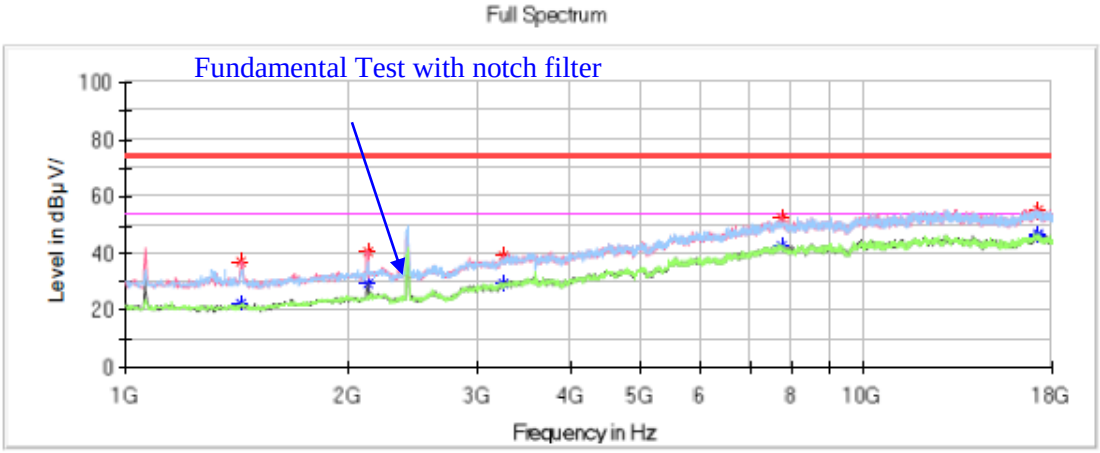
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	34.98	---	74.00	39.02	H	-14.8
1435.200000	---	21.34	54.00	32.66	H	-14.8
3577.200000	---	29.82	54.00	24.18	V	-6.3
3577.200000	39.34	---	74.00	34.66	V	-6.3
5974.200000	52.53	---	74.00	21.47	V	0.0
5974.200000	---	36.57	54.00	17.43	V	0.0
7381.800000	---	43.94	54.00	10.06	H	3.6
7381.800000	54.92	---	74.00	19.08	H	3.6
9843.400000	55.39	---	74.00	18.61	V	6.6
9843.400000	---	48.30	54.00	5.70	V	6.6
9870.600000	56.70	---	74.00	17.30	V	6.7
9870.600000	---	44.79	54.00	9.21	V	6.7

802.11ax20 Mode:

Low Channel : 2412 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax20 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	22.21	54.00	31.79	V	-14.8
1435.200000	37.15	---	74.00	36.85	V	-14.8
2125.400000	---	29.66	54.00	24.34	V	-11.3
2125.400000	40.85	---	74.00	33.15	V	-11.3
3244.000000	---	29.34	54.00	24.66	H	-7.4
3244.000000	39.06	---	74.00	34.94	H	-7.4
7759.200000	---	42.67	54.00	11.33	V	3.9
7759.200000	52.54	---	74.00	21.46	V	3.9
17194.200000	---	46.79	54.00	7.21	H	12.0
17194.200000	53.86	---	74.00	20.14	H	12.0
17197.600000	---	46.41	54.00	7.59	V	12.0
17197.600000	55.57	---	74.00	18.43	V	12.0

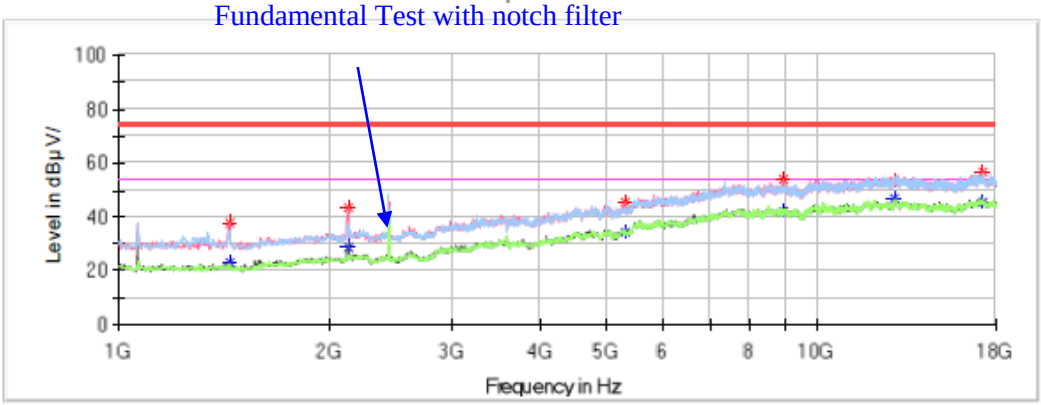
Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax20 middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum

Fundamental Test with notch filter



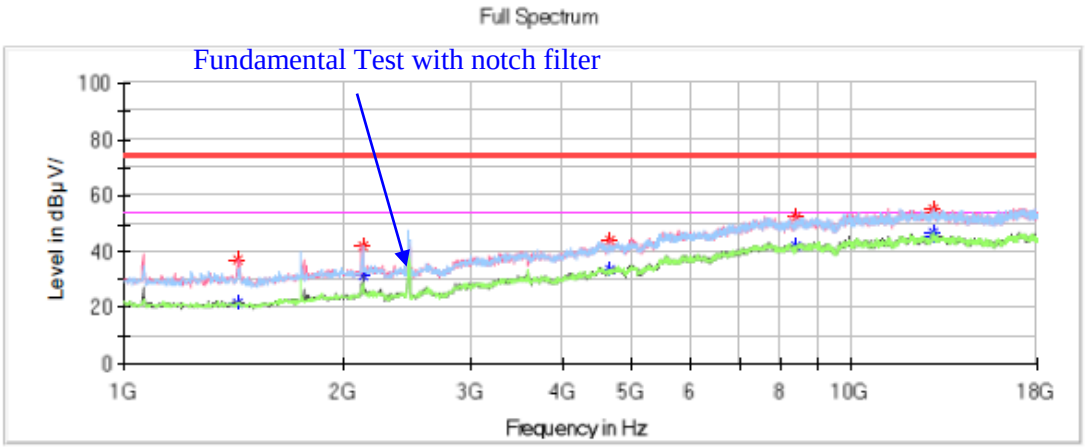
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	22.88	54.00	31.12	V	-14.8
1438.600000	37.63	---	74.00	36.37	V	-14.8
2132.200000	---	28.97	54.00	25.03	V	-11.3
2132.200000	43.33	---	74.00	30.67	V	-11.3
5290.800000	---	34.49	54.00	19.51	H	-1.2
5290.800000	45.62	---	74.00	28.38	H	-1.2
8945.800000	---	42.09	54.00	11.91	V	5.4
8945.800000	53.50	---	74.00	20.50	V	5.4
12889.800000	---	47.00	54.00	7.00	V	9.7
12889.800000	53.25	---	74.00	20.75	V	9.7
17218.000000	---	45.24	54.00	8.76	H	12.0
17218.000000	56.43	---	74.00	17.57	H	12.0

High Channel : 2462 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax20 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

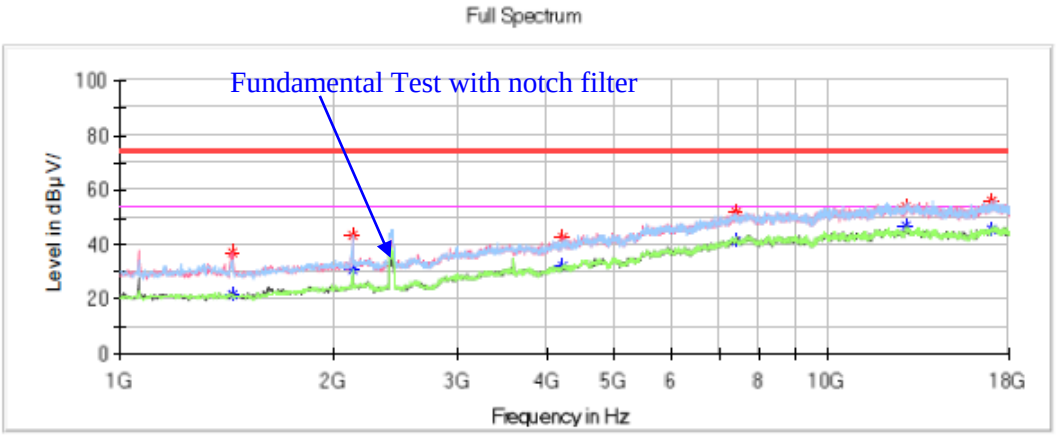
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.99	54.00	32.01	V	-14.8
1435.200000	37.08	---	74.00	36.92	V	-14.8
2128.800000	---	31.73	54.00	22.27	H	-11.3
2128.800000	41.77	---	74.00	32.23	H	-11.3
4651.600000	---	33.46	54.00	20.54	V	-3.7
4651.600000	44.19	---	74.00	29.81	V	-3.7
8408.600000	---	41.78	54.00	12.22	V	5.1
8408.600000	52.27	---	74.00	21.73	V	5.1
12930.600000	---	46.85	54.00	7.15	H	9.7
12930.600000	53.63	---	74.00	20.37	H	9.7
12961.200000	---	45.58	54.00	8.42	H	9.7
12961.200000	55.57	---	74.00	18.43	H	9.7

802.11ax40 Mode:

Low Channel : 2422 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax40 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



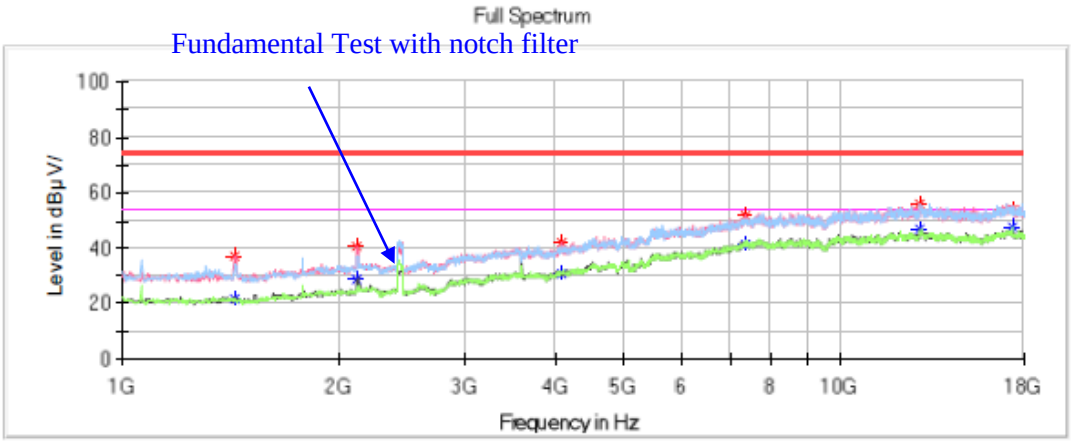
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1442.000000	---	21.64	54.00	32.36	V	-14.8
1442.000000	37.12	---	74.00	36.88	V	-14.8
2128.800000	---	31.12	54.00	22.88	H	-11.3
2128.800000	43.51	---	74.00	30.49	H	-11.3
4226.600000	---	31.91	54.00	22.09	V	-5.2
4226.600000	42.62	---	74.00	31.38	V	-5.2
7429.400000	---	41.58	54.00	12.42	H	3.7
7429.400000	51.50	---	74.00	22.50	H	3.7
12910.200000	---	46.78	54.00	7.22	V	9.7
12910.200000	53.65	---	74.00	20.35	V	9.7
16997.000000	---	45.34	54.00	8.66	H	12.3
16997.000000	56.08	---	74.00	17.92	H	12.3

Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax40 middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



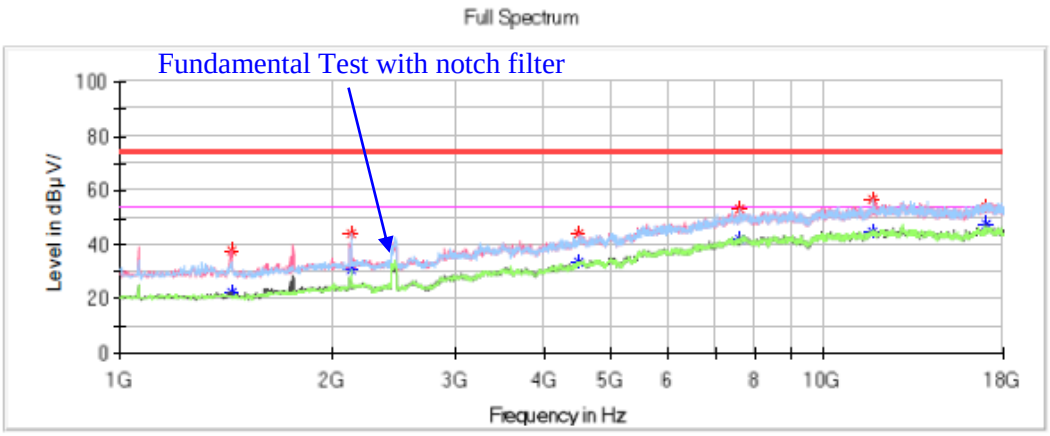
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.60	54.00	32.40	H	-14.8
1435.200000	36.71	---	74.00	37.29	H	-14.8
2122.000000	---	28.67	54.00	25.33	V	-11.4
2122.000000	40.35	---	74.00	33.65	V	-11.4
4097.400000	---	30.56	54.00	23.44	H	-5.6
4097.400000	41.78	---	74.00	32.22	H	-5.6
7378.400000	---	41.19	54.00	12.81	V	3.6
7378.400000	51.54	---	74.00	22.46	V	3.6
12900.000000	55.88	---	74.00	18.12	V	9.7
12900.000000	---	46.55	54.00	7.45	V	9.7
17333.600000	53.99	---	74.00	20.01	H	11.8
17333.600000	---	47.28	54.00	6.72	H	11.8

High Channel : 2452 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax40 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

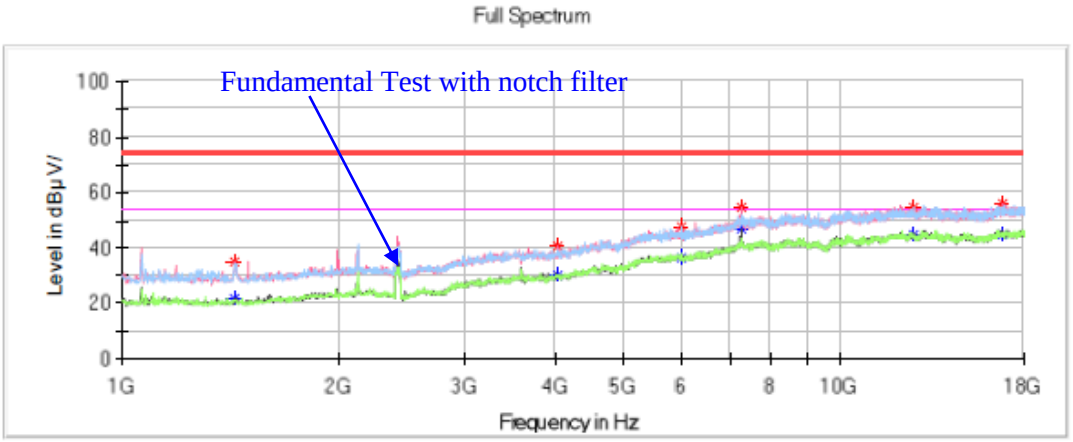
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	22.55	54.00	31.45	V	-14.8
1438.600000	37.94	---	74.00	36.06	V	-14.8
2128.800000	---	30.98	54.00	23.02	H	-11.3
2128.800000	44.03	---	74.00	29.97	H	-11.3
4498.600000	---	33.61	54.00	20.39	V	-4.3
4498.600000	43.71	---	74.00	30.29	V	-4.3
7606.200000	---	41.87	54.00	12.13	H	3.9
7606.200000	53.03	---	74.00	20.97	H	3.9
11761.000000	56.34	---	74.00	17.66	H	8.9
11761.000000	---	45.10	54.00	8.90	H	8.9
17031.000000	54.04	---	74.00	19.96	V	12.2
17031.000000	---	47.67	54.00	6.33	V	12.2

802.11n40 Mode:

Low Channel : 2422 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n40 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



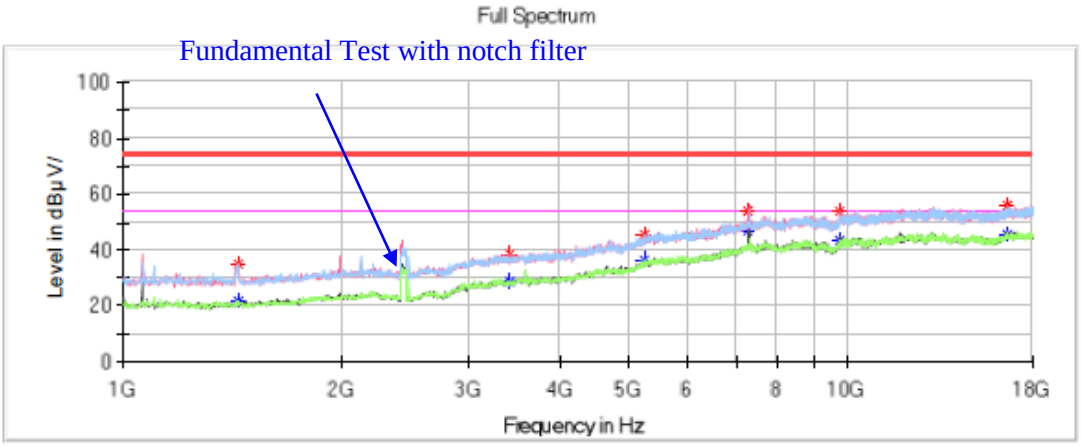
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.41	54.00	32.59	V	-14.8
1435.200000	35.08	---	74.00	38.92	V	-14.8
4046.400000	---	29.95	54.00	24.05	V	-5.8
4046.400000	40.37	---	74.00	33.63	V	-5.8
5991.200000	---	36.34	54.00	17.66	H	0.0
5991.200000	47.90	---	74.00	26.10	H	0.0
7273.000000	---	46.92	54.00	7.08	V	3.3
7273.000000	54.73	---	74.00	19.27	V	3.3
12611.000000	---	44.62	54.00	9.38	H	9.7
12611.000000	54.65	---	74.00	19.35	H	9.7
16769.200000	---	44.66	54.00	9.34	V	11.6
16769.200000	55.66	---	74.00	18.34	V	11.6

Middle Channel: 2437 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n40 middle channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



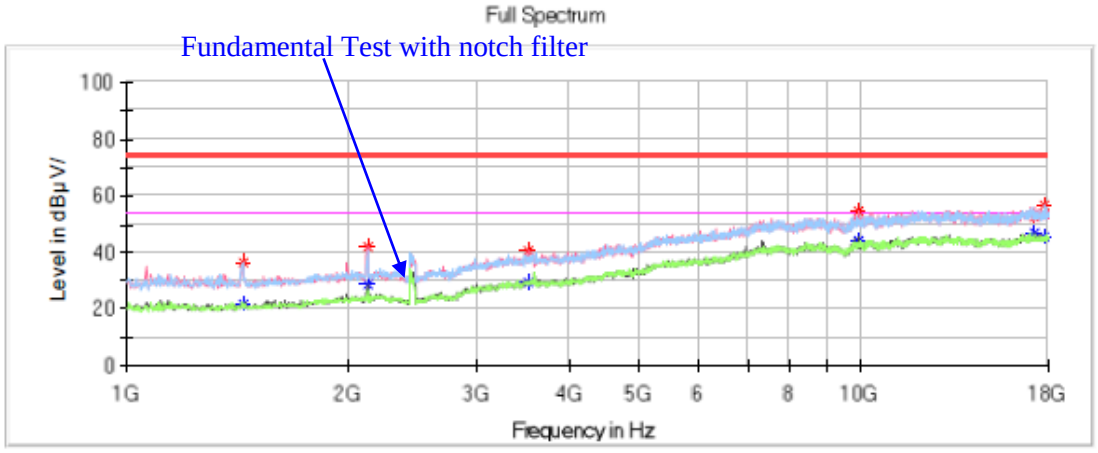
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	21.73	54.00	32.27	H	-14.8
1438.600000	34.78	---	74.00	39.22	H	-14.8
3424.200000	---	28.57	54.00	25.43	V	-6.7
3424.200000	38.57	---	74.00	35.43	V	-6.7
5233.000000	---	36.16	54.00	17.84	H	-1.5
5233.000000	45.52	---	74.00	28.48	H	-1.5
7300.200000	---	46.63	54.00	7.37	V	3.4
7300.200000	53.76	---	74.00	20.24	V	3.4
9744.800000	---	43.53	54.00	10.47	V	6.3
9744.800000	53.62	---	74.00	20.38	V	6.3
16643.400000	---	45.13	54.00	8.87	H	11.2
16643.400000	56.24	---	74.00	17.76	H	11.2

High Channel : 2452 MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n40 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

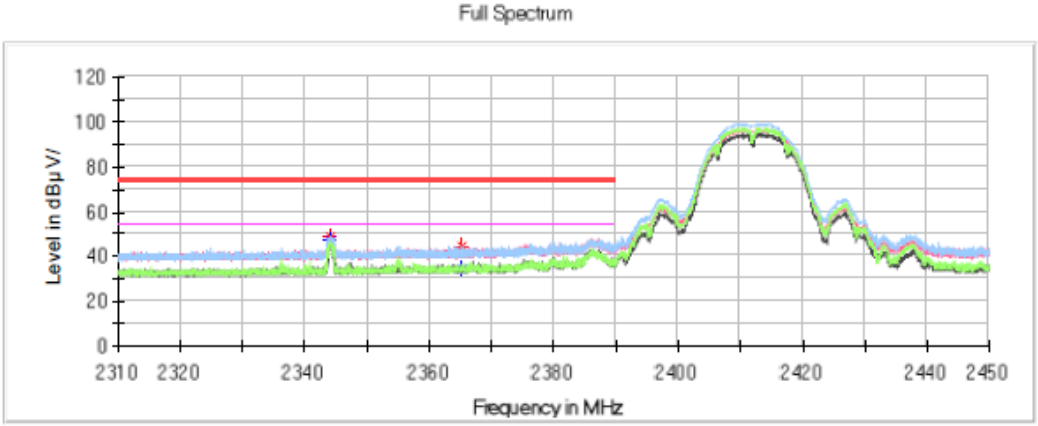
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	22.00	54.00	32.00	H	-14.8
1438.600000	36.05	---	74.00	37.95	H	-14.8
2125.400000	---	28.94	54.00	25.06	V	-11.3
2125.400000	41.72	---	74.00	32.28	V	-11.3
3526.200000	---	29.21	54.00	24.79	V	-6.3
3526.200000	40.65	---	74.00	33.35	V	-6.3
9921.600000	---	44.07	54.00	9.93	V	6.9
9921.600000	54.44	---	74.00	19.56	V	6.9
17187.400000	---	46.61	54.00	7.39	H	12.0
17187.400000	52.47	---	74.00	21.53	H	12.0
17806.200000	---	45.21	54.00	8.79	H	11.8
17806.200000	56.39	---	74.00	17.61	H	11.8

Band Edge emissions:

Chain 0:
802.11b Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

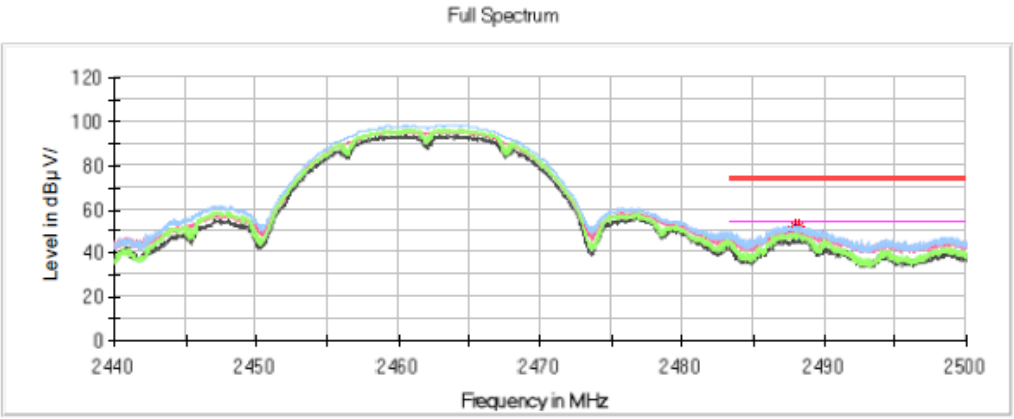


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2344.034000	---	46.86	54.00	7.14	V	-4.7
2344.034000	49.01	---	74.00	24.99	V	-4.7
2365.314000	---	34.72	54.00	19.28	H	-4.7
2365.314000	44.51	---	74.00	29.49	H	-4.7

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



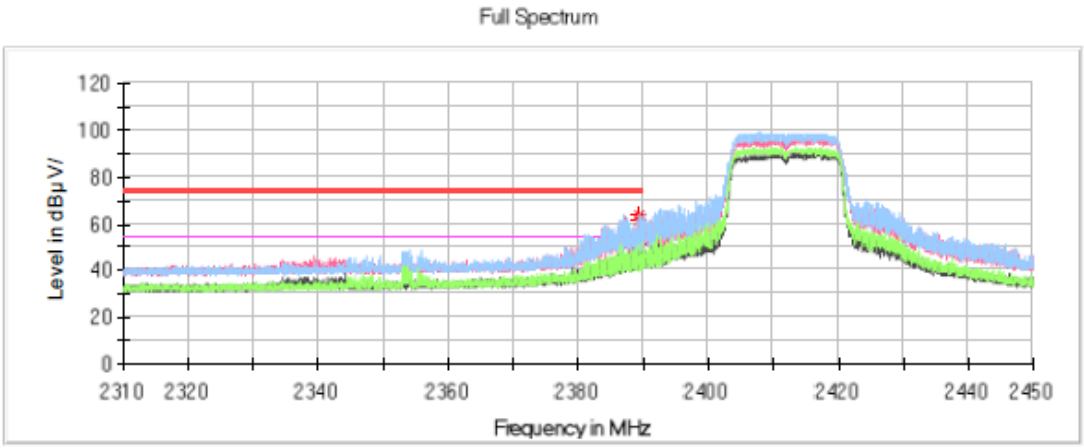
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2487.910000	---	49.23	54.00	4.77	H	-4.2
2487.910000	51.69	---	74.00	22.31	H	-4.2
2488.204000	---	47.45	54.00	6.55	H	-4.2
2488.204000	52.30	---	74.00	21.70	H	-4.2

802.11g Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

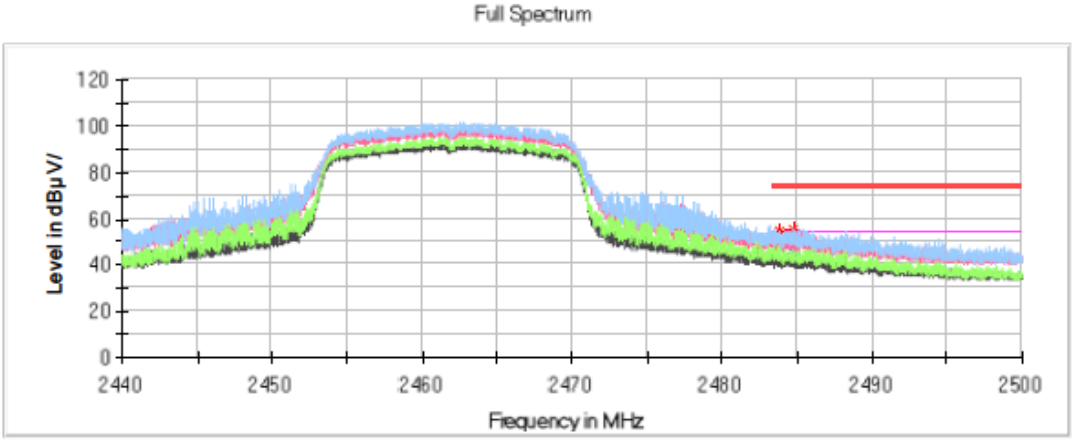


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.324000	---	51.31	54.00	2.69	H	-4.6
2389.324000	60.91	---	74.00	13.09	H	-4.6
2389.450000	---	46.52	54.00	7.48	H	-4.6
2389.450000	63.70	---	74.00	10.30	H	-4.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



Critical_Freqs

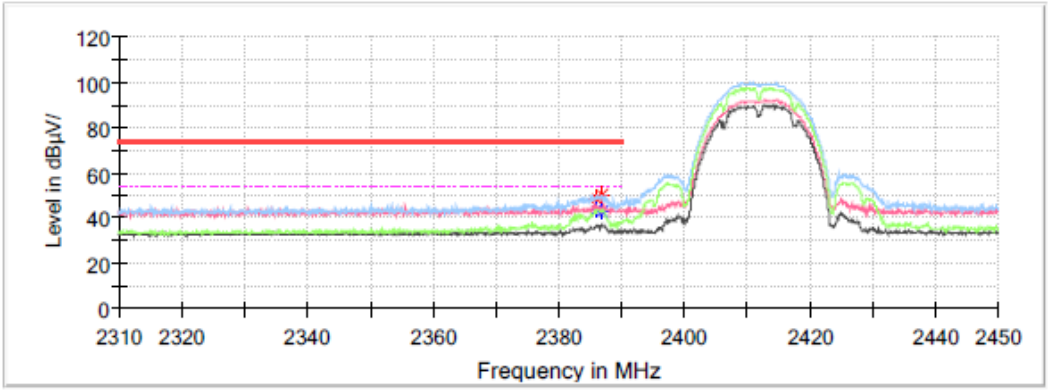
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.794000	54.25	---	74.00	19.75	H	-4.3
2483.794000	---	48.16	54.00	5.84	H	-4.3
2484.748000	55.67	---	74.00	18.33	H	-4.3
2484.748000	---	44.99	54.00	9.01	H	-4.3

Chain 1:
802.11b Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



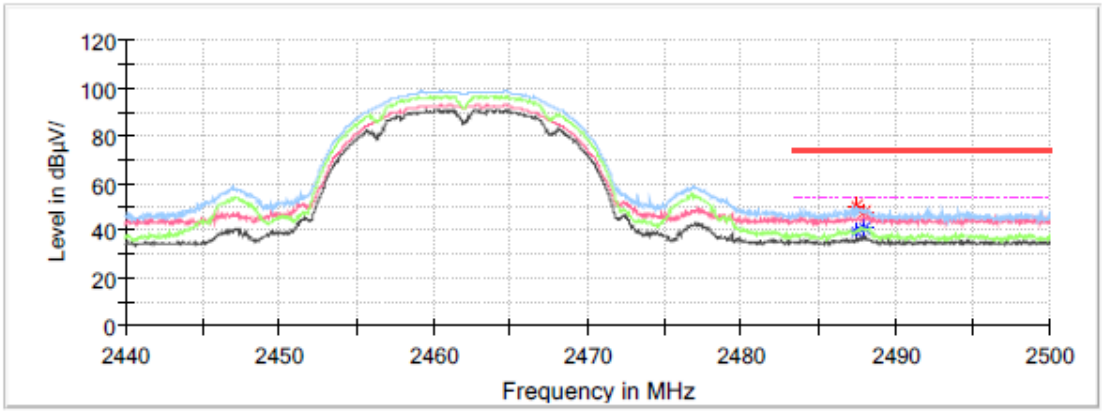
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.160000	---	43.78	54.00	10.22	H	-0.6
2386.160000	48.92	---	74.00	25.08	H	-0.6
2387.000000	---	42.80	54.00	11.20	H	-0.6
2387.000000	50.12	---	74.00	23.88	H	-0.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11b high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



Critical_Freqs

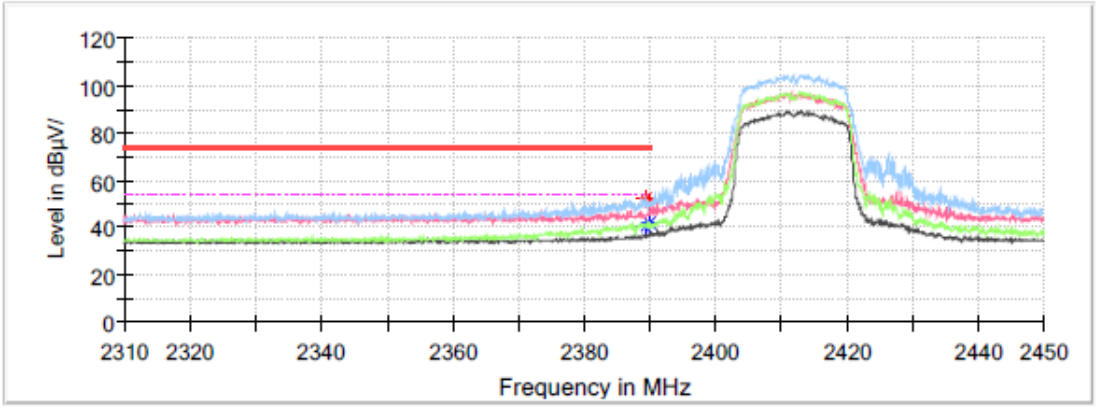
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2487.424000	49.95	---	74.00	24.05	H	-0.2
2487.424000	---	39.45	54.00	14.55	H	-0.2
2487.976000	47.70	---	74.00	26.30	H	-0.2
2487.976000	---	41.44	54.00	12.56	H	-0.2

802.11g Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



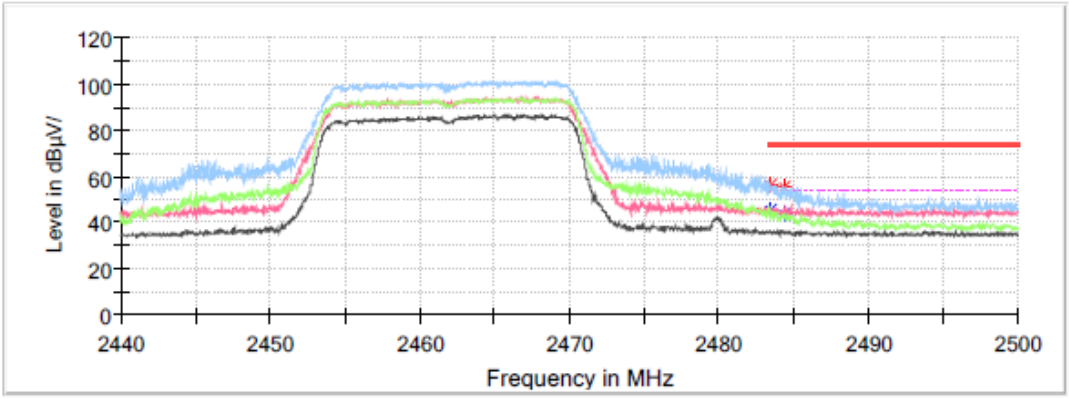
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.464000	52.05	---	74.00	21.95	H	-0.6
2389.464000	---	40.29	54.00	13.71	H	-0.6
2389.912000	50.01	---	74.00	23.99	H	-0.6
2389.912000	---	42.29	54.00	11.71	H	-0.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11g high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



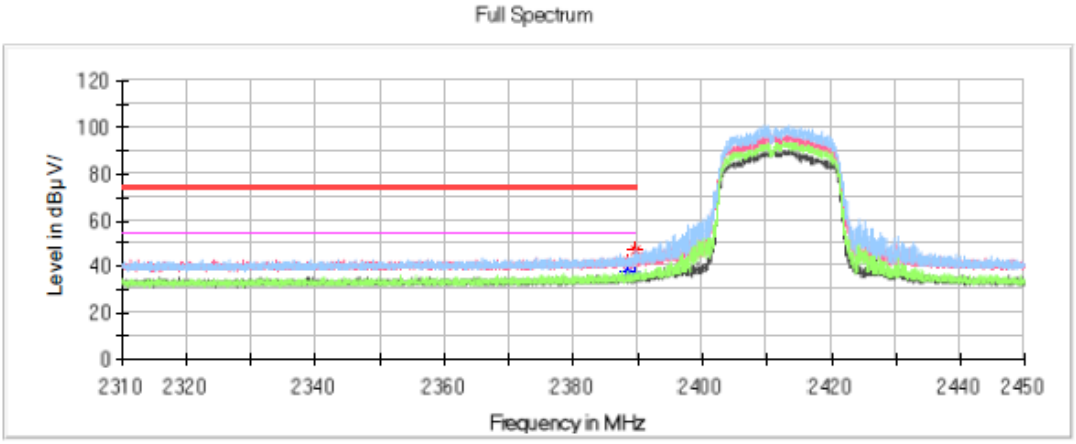
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.512000	---	45.21	54.00	8.79	H	-0.3
2483.512000	56.43	---	74.00	17.57	H	-0.3
2484.328000	---	43.67	54.00	10.33	H	-0.3
2484.328000	55.57	---	74.00	18.43	H	-0.3

Chain 0+Chain 1:
802.11n20 Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n20 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

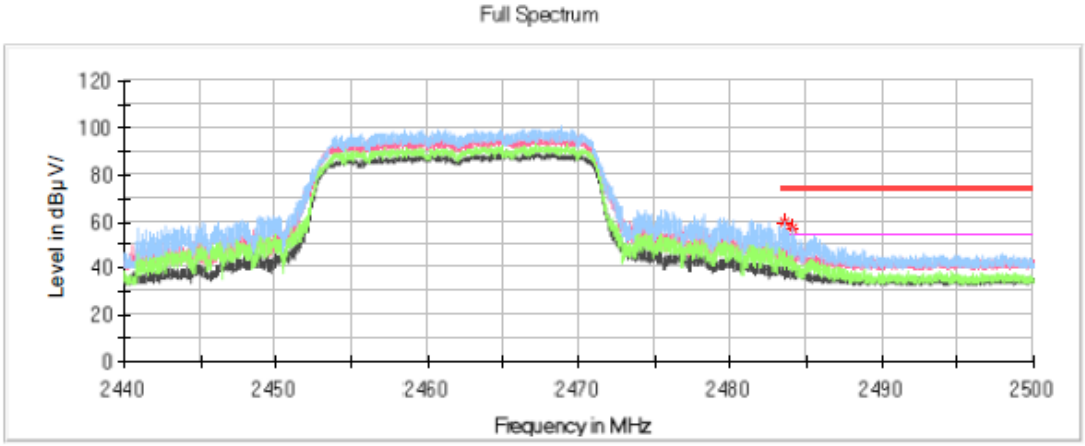


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2388.596000	---	37.74	54.00	16.26	H	-4.6
2388.596000	42.18	---	74.00	31.82	H	-4.6
2389.772000	---	36.13	54.00	17.87	H	-4.6
2389.772000	46.59	---	74.00	27.41	H	-4.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n20 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



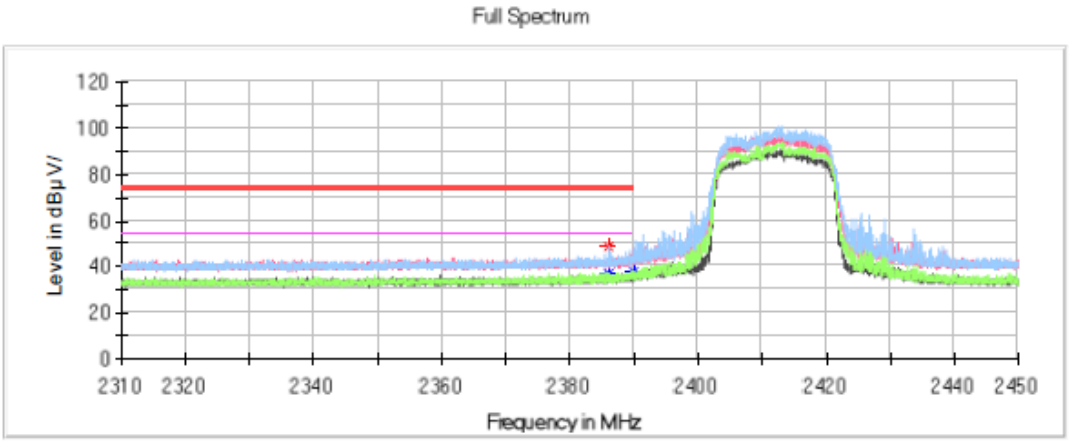
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.560000	---	47.14	54.00	6.86	H	-4.3
2483.560000	59.57	---	74.00	14.43	H	-4.3
2484.082000	---	45.13	54.00	8.87	H	-4.3
2484.082000	57.05	---	74.00	16.95	H	-4.3

Chain 0+Chain 1:
802.11ax20 Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax20 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

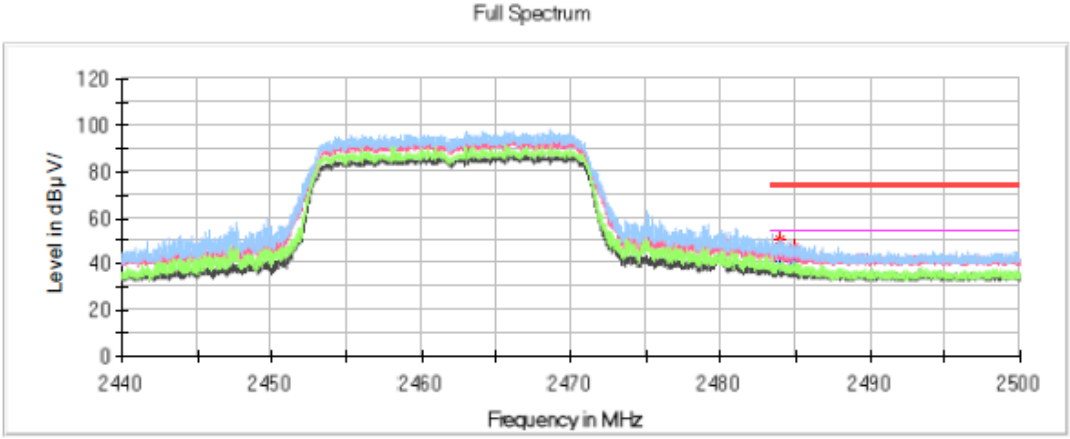


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.146000	48.99	---	74.00	25.01	H	-4.6
2386.146000	---	36.66	54.00	17.34	H	-4.6
2389.968000	43.40	---	74.00	30.60	V	-4.6
2389.968000	---	38.00	54.00	16.00	V	-4.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax20 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



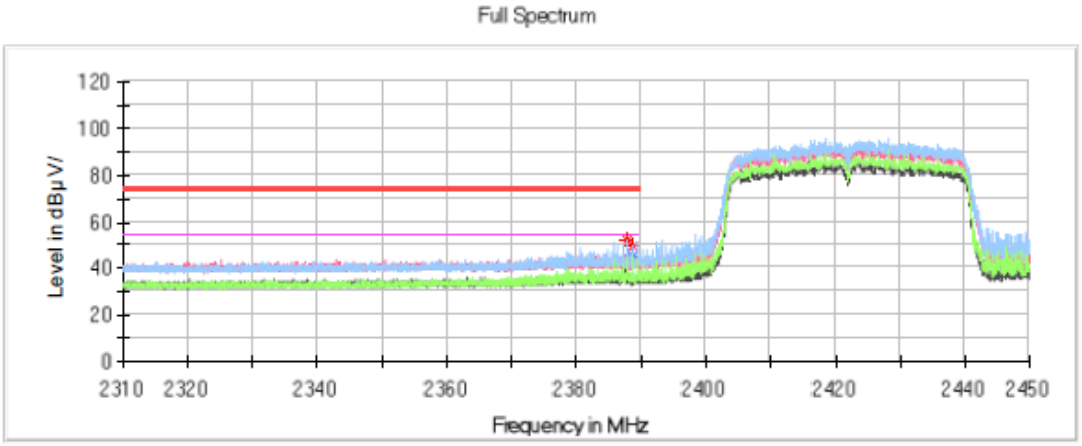
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.974000	50.27	---	74.00	23.73	H	-4.3
2483.974000	---	39.71	54.00	14.29	H	-4.3
2484.922000	47.23	---	74.00	26.77	H	-4.3
2484.922000	---	41.11	54.00	12.89	H	-4.3

Chain 0+Chain 1:
802.11ax40 Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax40 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

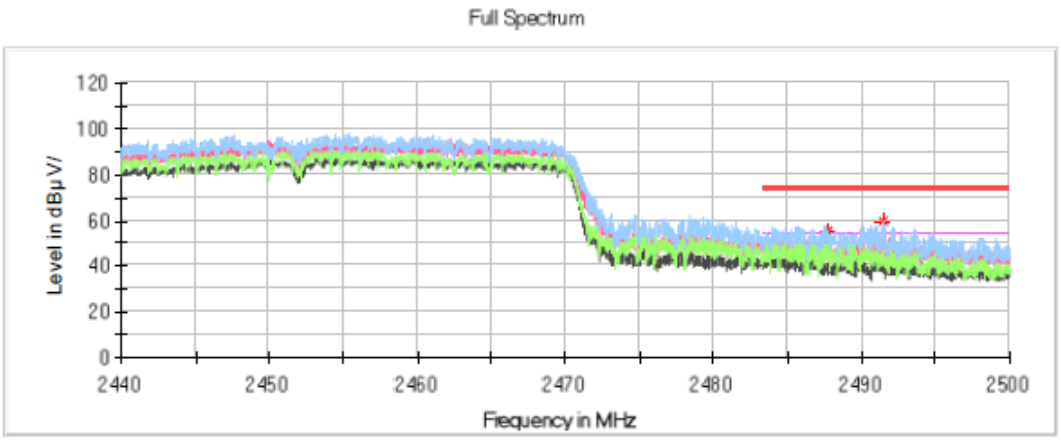


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2387.882000	52.08	---	74.00	21.92	H	-4.6
2387.882000	---	44.78	54.00	9.22	H	-4.6
2388.750000	49.75	---	74.00	24.25	H	-4.6
2388.750000	---	44.92	54.00	9.08	H	-4.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11ax40 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



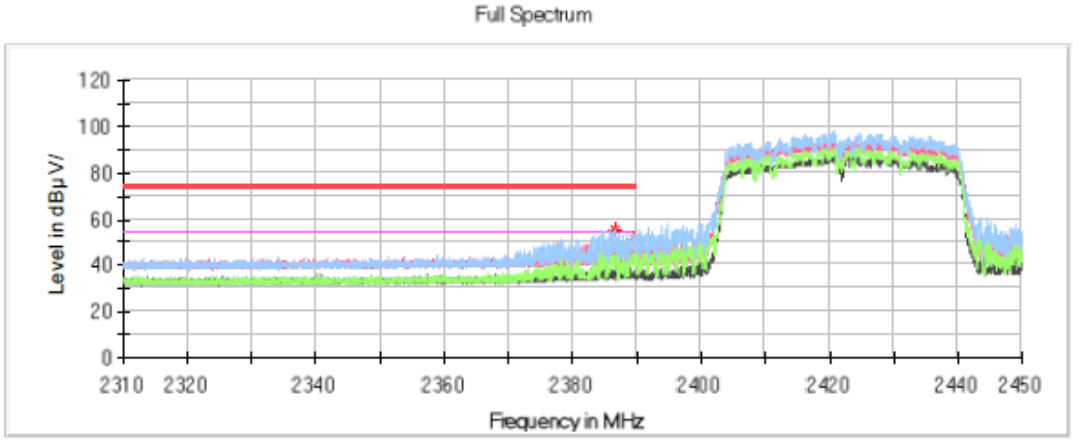
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2487.670000	55.49	---	74.00	18.51	H	-4.2
2487.670000	---	49.85	54.00	4.15	H	-4.2
2491.402000	59.56	---	74.00	14.44	H	-4.2
2491.402000	---	47.32	54.00	6.68	H	-4.2

Chain 0+Chain 1:
802.11n40 Mode:

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n40 low channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

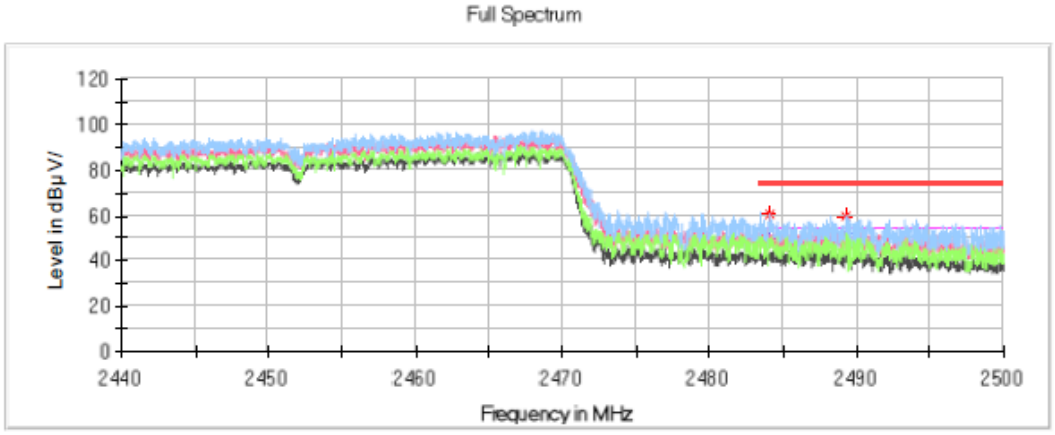


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.734000	55.61	---	74.00	18.39	H	-4.6
2386.734000	---	44.15	54.00	9.85	H	-4.6
2389.702000	51.44	---	74.00	22.56	H	-4.6
2389.702000	---	45.52	54.00	8.48	H	-4.6

Common Information

Project No.:	RKSA241202004
Test Mode:	2.4G WIFI 802.11n40 high channel
Standard:	FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

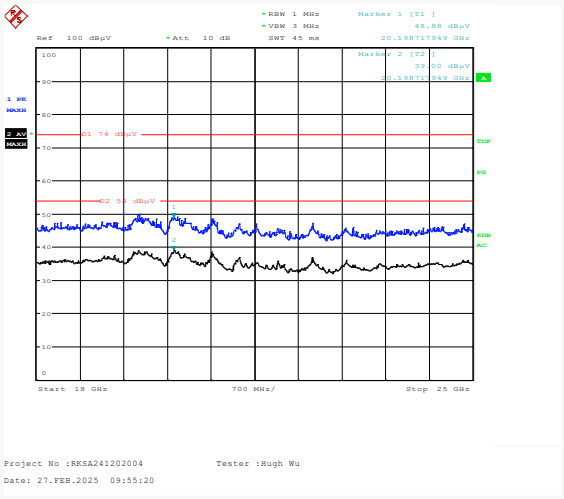


Critical_Freqs

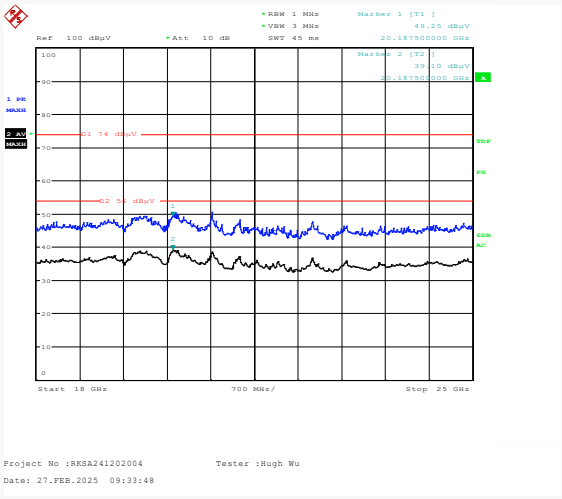
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.088000	60.12	---	74.00	13.88	H	-4.3
2484.088000	---	49.34	54.00	4.66	H	-4.3
2489.320000	59.27	---	74.00	14.73	H	-4.2
2489.320000	---	52.16	54.00	1.84	H	-4.2

18GHz-25GHz: *Transmitting in maximum output power ax40 mode and high channel*
Chain 0+Chain 1:

Horizontal



Vertical



Note: The test distance is 3m. The limit is 74dBµV/m(Peak) and 54dBµV/m(Average).

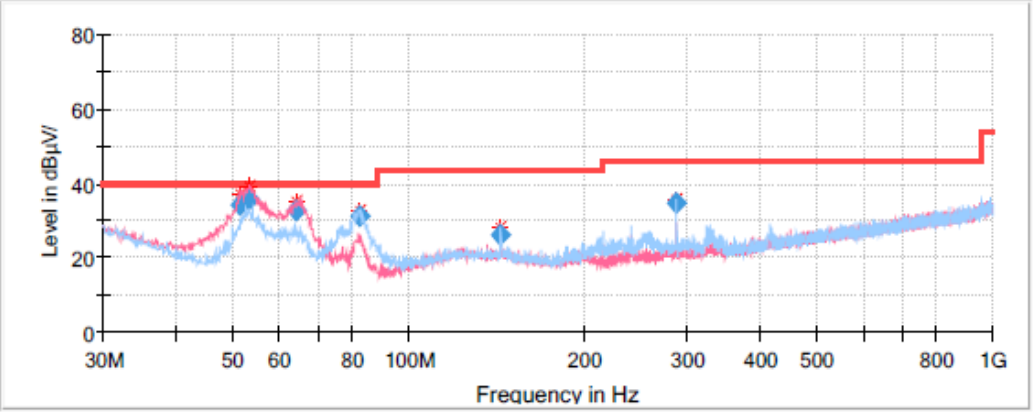
Frequency (GHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.19	---	39.1	54	14.9	V	12.45
20.19	49.25	---	74	24.75	V	12.45
20.20	---	39	54	15	H	12.46
20.20	48.88	---	74	25.12	H	12.46

For BLE (1 Mbps) Mode:
30MHz-1GHz

Low Channel: 2402MHz

Common Information

Project No:	RKSA241202004
EUT Model:	G1
Test Mode:	Transmitting in BLE-1M mode low channel
Standard:	FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:120 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	16.3℃
Humidity:	35%
Barometric Pressure:	102.4kPa
Test Engineer:	Jerry Yan
Test Date:	2025/1/14



Final_Result

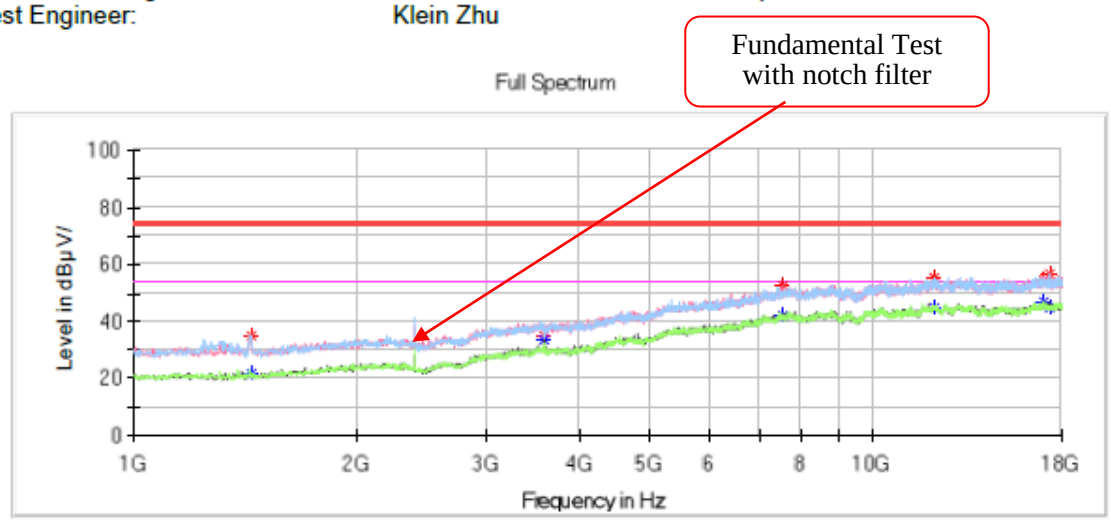
Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
51.340000	34.35	40.00	5.65	V	-16.9
53.522530	35.86	40.00	4.14	V	-17.0
64.071500	32.56	40.00	7.44	V	-16.8
82.258550	31.19	40.00	8.81	H	-17.1
144.005300	26.23	43.50	17.27	H	-11.4
287.991800	34.47	46.00	11.53	H	-10.3

1GHz-18GHz:

Low Channel: 2402MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 1M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Klein Zhu



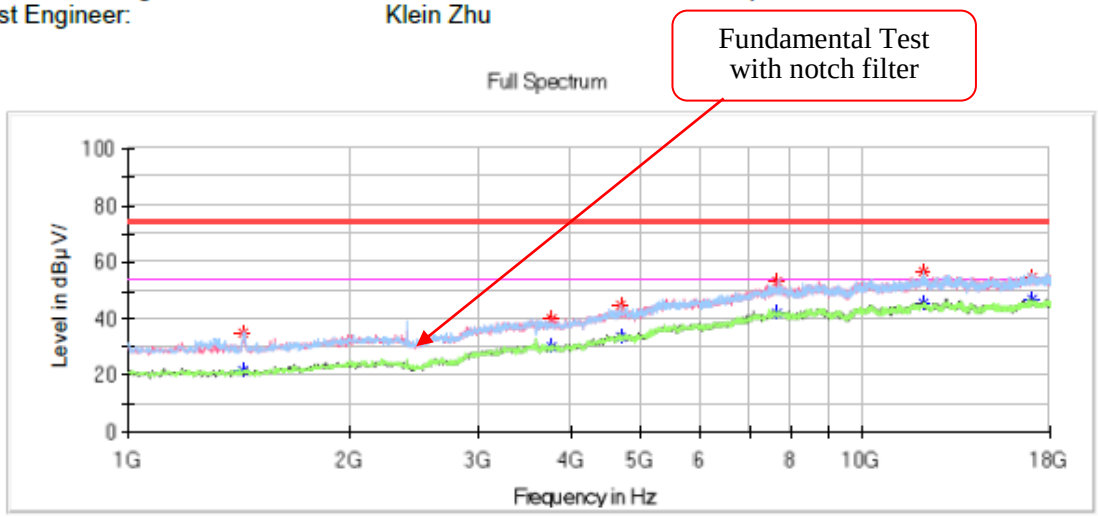
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	21.93	54.00	32.07	H	-14.8
1438.600000	35.03	---	74.00	38.97	H	-14.8
3597.600000	---	33.26	54.00	20.74	V	-6.3
3597.600000	35.05	---	74.00	38.95	V	-6.3
7562.000000	---	42.13	54.00	11.87	V	3.9
7562.000000	52.59	---	74.00	21.41	V	3.9
12080.600000	---	44.81	54.00	9.19	V	9.1
12080.600000	55.28	---	74.00	18.72	V	9.1
16990.200000	54.82	---	74.00	19.18	V	12.3
16990.200000	---	46.93	54.00	7.07	V	12.3
17289.400000	56.34	---	74.00	17.66	H	11.8
17289.400000	---	44.83	54.00	9.17	H	11.8

Middle Channel: 2440MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 1M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Klein Zhu



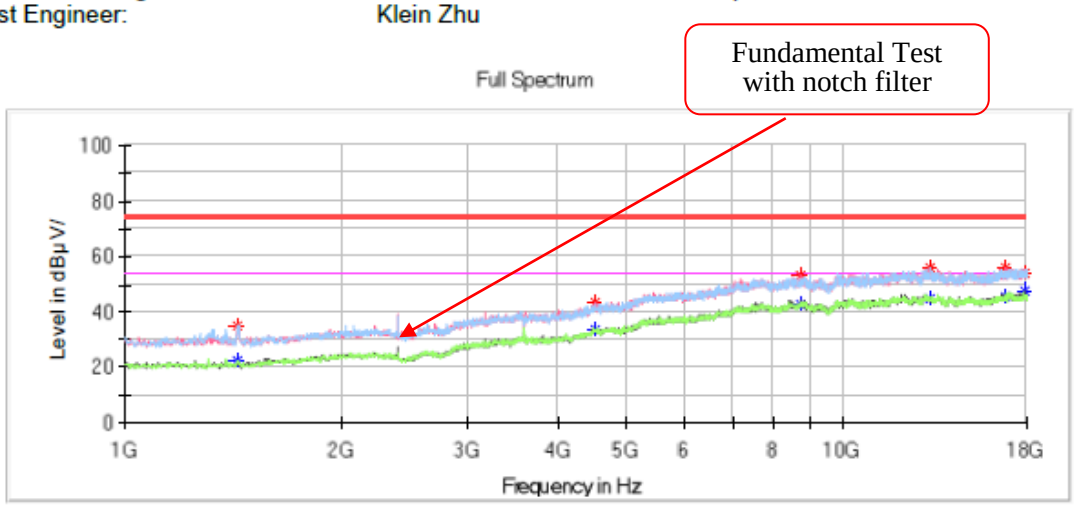
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.75	54.00	32.25	H	-14.8
1435.200000	34.82	---	74.00	39.18	H	-14.8
3781.200000	---	29.76	54.00	24.24	V	-6.1
3781.200000	40.10	---	74.00	33.90	V	-6.1
4695.800000	---	33.60	54.00	20.40	V	-3.5
4695.800000	44.65	---	74.00	29.35	V	-3.5
7660.600000	---	42.01	54.00	11.99	H	3.9
7660.600000	53.36	---	74.00	20.64	H	3.9
12084.000000	---	45.23	54.00	8.77	H	9.1
12084.000000	56.40	---	74.00	17.60	H	9.1
17037.800000	---	46.95	54.00	7.05	V	12.2
17037.800000	54.62	---	74.00	19.38	V	12.2

High Channel: 2480MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 1M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Klein Zhu



Critical_Freqs

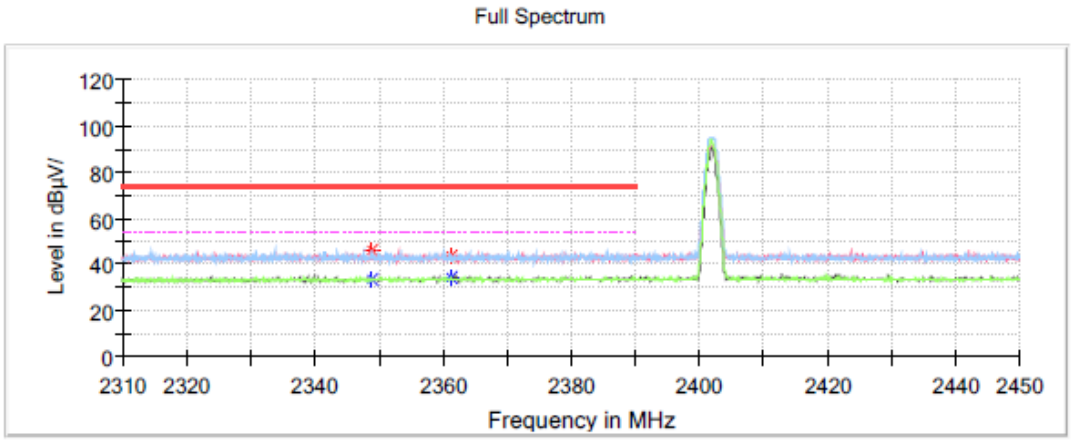
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	22.38	54.00	31.62	H	-14.8
1435.200000	35.25	---	74.00	38.75	H	-14.8
4512.200000	---	33.31	54.00	20.69	V	-4.2
4512.200000	43.45	---	74.00	30.55	V	-4.2
8707.800000	---	42.35	54.00	11.65	V	5.4
8707.800000	52.91	---	74.00	21.09	V	5.4
13189.000000	---	44.84	54.00	9.16	V	9.6
13189.000000	55.77	---	74.00	18.23	V	9.6
16810.000000	56.28	---	74.00	17.72	H	11.7
16810.000000	---	45.63	54.00	8.37	H	11.7
17925.200000	53.90	---	74.00	20.10	H	11.9
17925.200000	---	47.25	54.00	6.75	H	11.9

Band Edge:

Low Channel

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 1M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



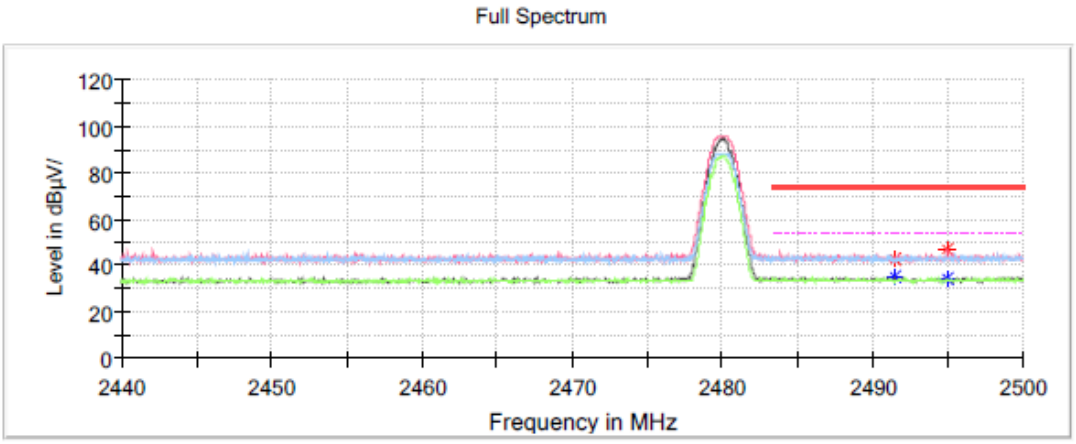
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2348.976000	46.14	---	74.00	27.86	V	-0.7
2348.976000	---	33.55	54.00	20.45	V	-0.7
2361.184000	43.36	---	74.00	30.64	H	-0.7
2361.184000	---	34.75	54.00	19.25	H	-0.7

High Channel

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 1M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

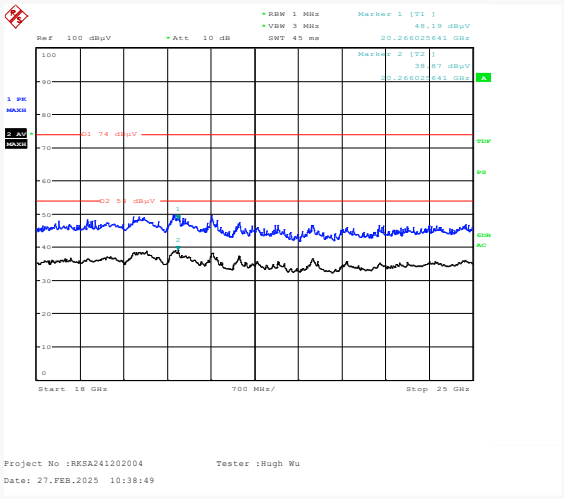


Critical_Freqs

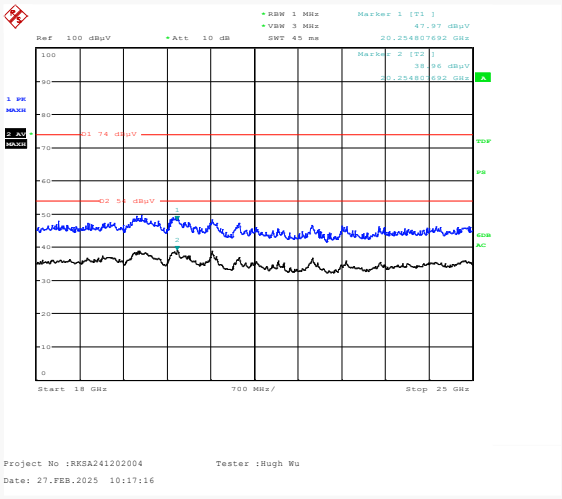
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2491.504000	---	35.12	54.00	18.88	V	-0.2
2491.504000	42.94	---	74.00	31.06	V	-0.2
2494.936000	---	34.28	54.00	19.72	V	-0.2
2494.936000	47.18	---	74.00	26.82	V	-0.2

18GHz-25GHz: BLE (1Mbps) Low channel worst

Horizontal



Vertical



Note: The test distance is 3m. The limit is 74dBµV/m(Peak) and 54dBµV/m(Average).

Frequency (GHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.25	---	38.96	54	15.04	V	12.51
20.25	47.97	---	74	26.03	V	12.51
20.27	---	38.87	54	15.13	H	12.52
20.27	48.19	---	74	25.81	H	12.52

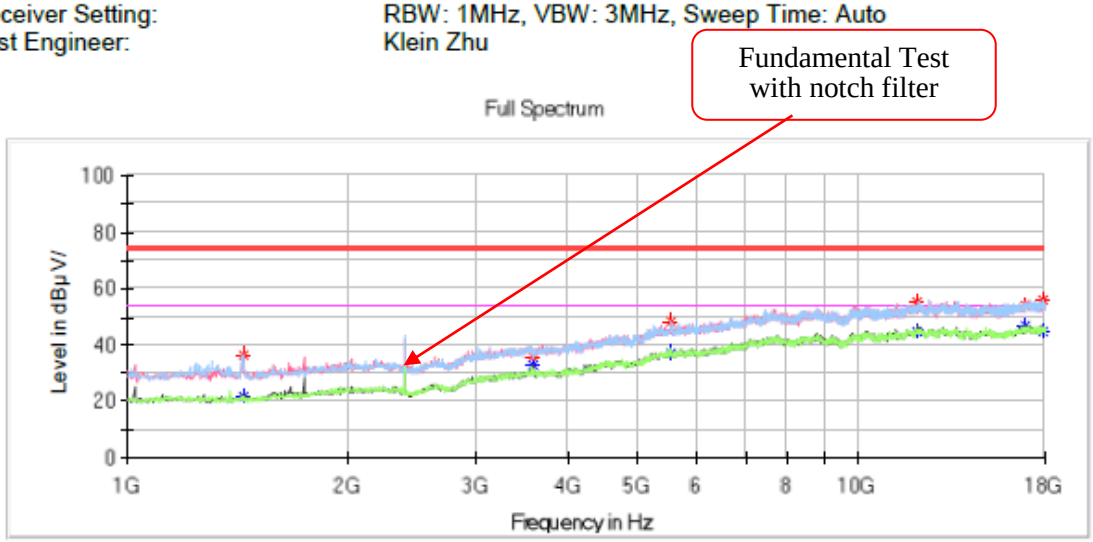
For BLE (2 Mbps) Mode:

1GHz-18GHz:

Low Channel: 2402MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 2M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Klein Zhu



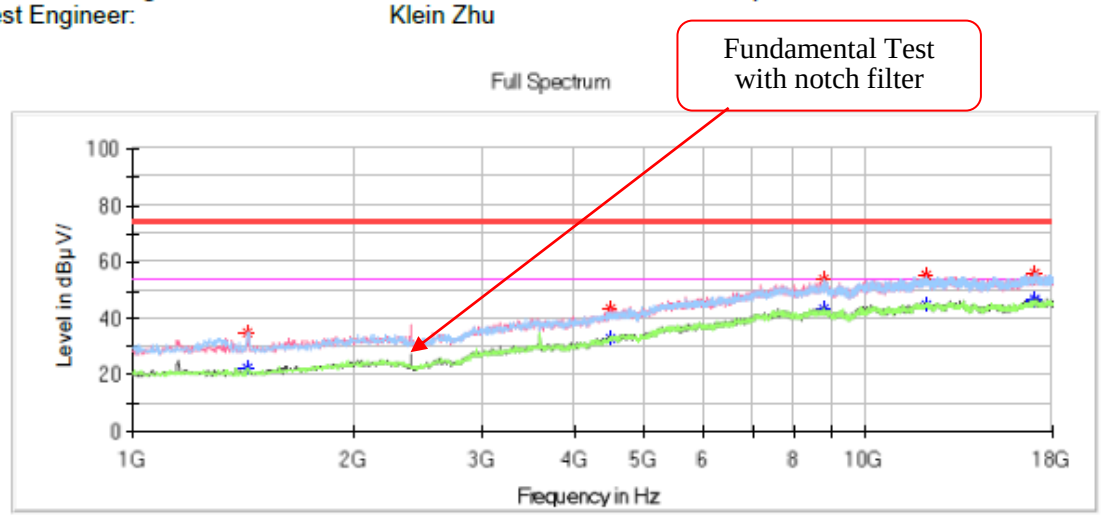
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	21.98	54.00	32.02	H	-14.8
1438.600000	36.03	---	74.00	37.97	H	-14.8
3597.600000	---	32.93	54.00	21.07	V	-6.3
3597.600000	35.41	---	74.00	38.59	V	-6.3
5556.000000	---	37.20	54.00	16.80	H	-0.3
5556.000000	48.15	---	74.00	25.85	H	-0.3
12060.200000	---	44.77	54.00	9.23	V	9.1
12060.200000	55.26	---	74.00	18.74	V	9.1
16969.800000	---	46.83	54.00	7.17	H	12.2
16969.800000	53.81	---	74.00	20.19	H	12.2
17870.800000	---	44.91	54.00	9.09	H	11.8
17870.800000	56.25	---	74.00	17.75	H	11.8

Middle Channel: 2440MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 2M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Klein Zhu



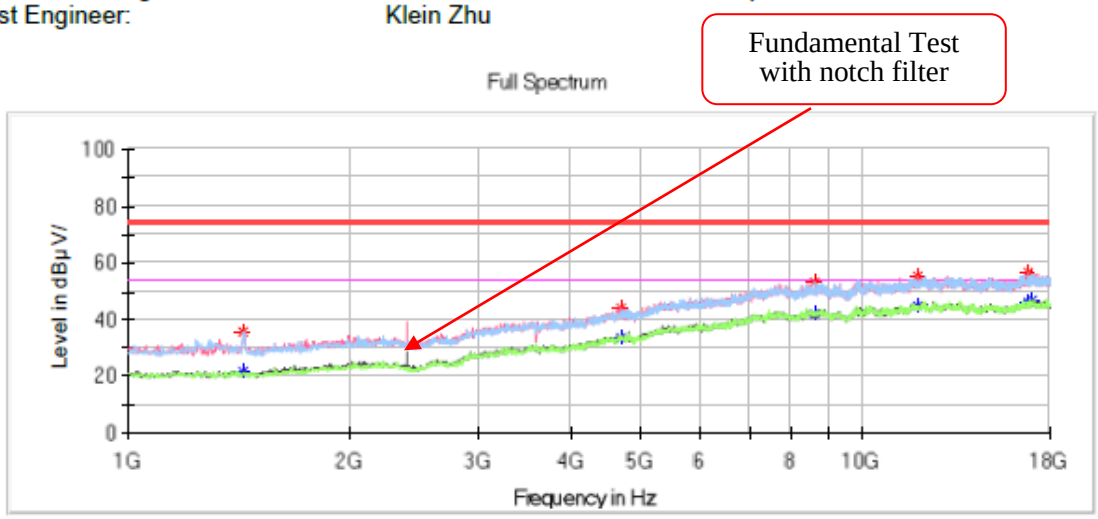
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	22.23	54.00	31.77	V	-14.8
1435.200000	35.10	---	74.00	38.90	V	-14.8
4478.200000	---	33.21	54.00	20.79	V	-4.3
4478.200000	43.43	---	74.00	30.57	V	-4.3
8765.600000	---	43.07	54.00	10.93	H	5.4
8765.600000	53.62	---	74.00	20.38	H	5.4
12107.800000	---	44.67	54.00	9.33	V	9.1
12107.800000	55.03	---	74.00	18.97	V	9.1
16980.000000	---	46.82	54.00	7.18	V	12.2
16980.000000	53.96	---	74.00	20.04	V	12.2
16997.000000	---	46.49	54.00	7.51	H	12.3
16997.000000	55.92	---	74.00	18.08	H	12.3

High Channel: 2480MHz

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 2M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Klein Zhu



Critical_Freqs

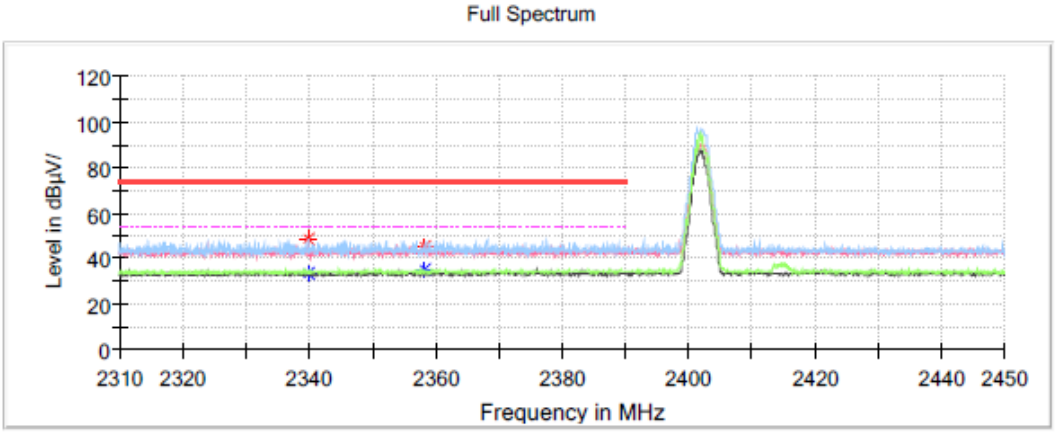
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1435.200000	---	21.50	54.00	32.50	H	-14.8
1435.200000	35.47	---	74.00	38.53	H	-14.8
4678.800000	---	33.45	54.00	20.55	V	-3.6
4678.800000	43.73	---	74.00	30.27	V	-3.6
8585.400000	---	42.19	54.00	11.81	V	5.4
8585.400000	53.00	---	74.00	21.00	V	5.4
11866.400000	---	44.64	54.00	9.36	H	8.9
11866.400000	55.10	---	74.00	18.90	H	8.9
16793.000000	---	46.13	54.00	7.87	V	11.7
16793.000000	56.43	---	74.00	17.57	V	11.7
17007.200000	---	47.18	54.00	6.82	V	12.3
17007.200000	54.86	---	74.00	19.14	V	12.3

Band Edge:

Low Channel

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 2M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



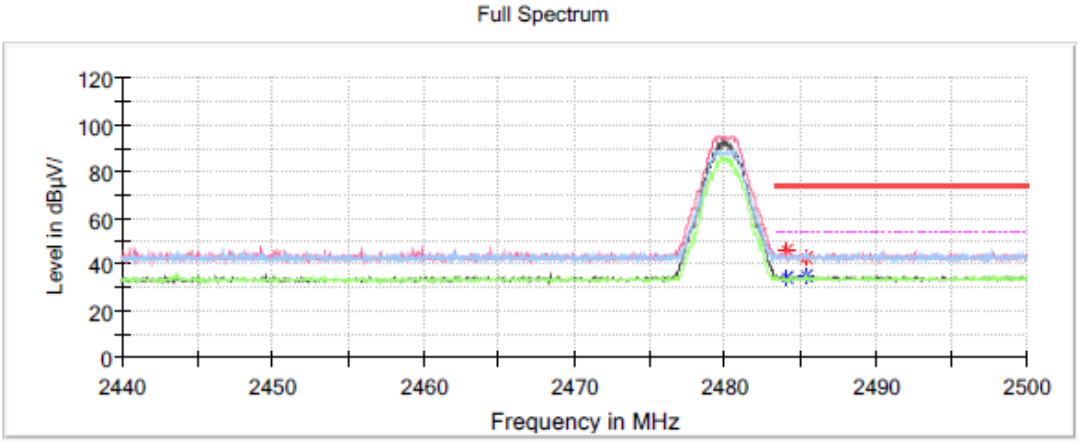
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2339.904000	48.32	---	74.00	25.68	H	-0.7
2339.904000	---	33.85	54.00	20.15	H	-0.7
2358.216000	45.70	---	74.00	28.30	H	-0.7
2358.216000	---	35.46	54.00	18.54	H	-0.7

High Channel

Common Information

Project No.:	RKSA241202004
Test Mode:	BLE 2M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

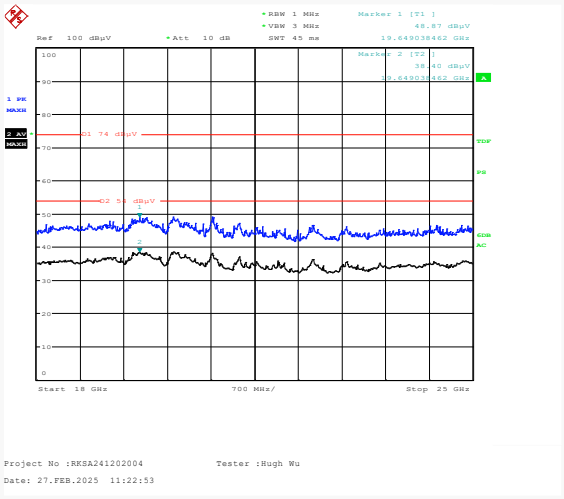


Critical_Freqs

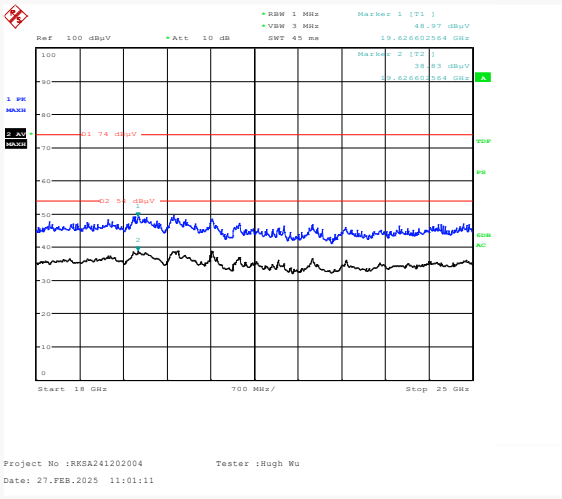
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.088000	45.86	---	74.00	28.14	V	-0.3
2484.088000	---	34.25	54.00	19.75	V	-0.3
2485.432000	43.19	---	74.00	30.81	H	-0.2
2485.432000	---	34.84	54.00	19.16	H	-0.2

18GHz-25GHz: BLE (2Mbps) Low channel worst

Horizontal



Vertical



Note: The test distance is 3m. The limit is 74dBµV/m(Peak) and 54dBµV/m(Average).

Frequency (GHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
19.63	---	38.83	54	15.17	V	11.68
19.63	48.97	---	74	25.03	V	11.68
19.65	---	38.4	54	15.6	H	11.61
19.65	48.87	---	74	25.13	H	11.61

6 DB EMISSION BANDWIDTH

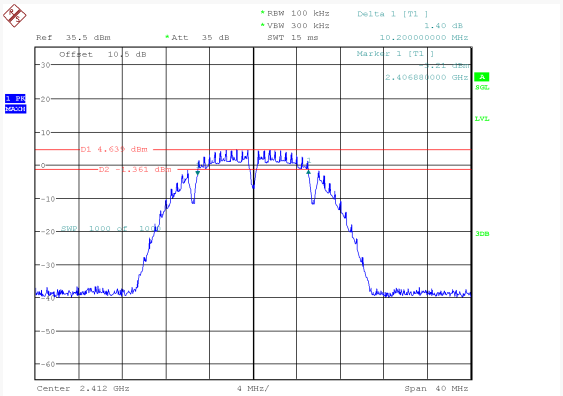
EUT operation mode: Transmitting

Test Result: Pass

Test Mode	Channel (MHz)	DTS Bandwidth (MHz)		Limit (MHz)	Verdict
		Chain 0	Chain 1		
802.11b	2412	10.200	12.080	0.5	PASS
	2437	10.200	10.160	0.5	PASS
	2462	10.200	10.200	0.5	PASS
802.11g	2412	16.400	16.400	0.5	PASS
	2437	16.400	16.400	0.5	PASS
	2462	16.400	16.400	0.5	PASS
802.11n20	2412	17.360	17.480	0.5	PASS
	2437	17.600	17.600	0.5	PASS
	2462	17.480	17.600	0.5	PASS
802.11ax-HE20	2412	15.160	15.160	0.5	PASS
	2437	19.040	18.680	0.5	PASS
	2462	19.040	18.720	0.5	PASS
802.11n40	2422	35.200	36.480	0.5	PASS
	2437	36.320	36.640	0.5	PASS
	2452	36.320	36.640	0.5	PASS
802.11ax-HE40	2422	35.280	35.200	0.5	PASS
	2437	38.160	38.160	0.5	PASS
	2452	38.160	38.160	0.5	PASS

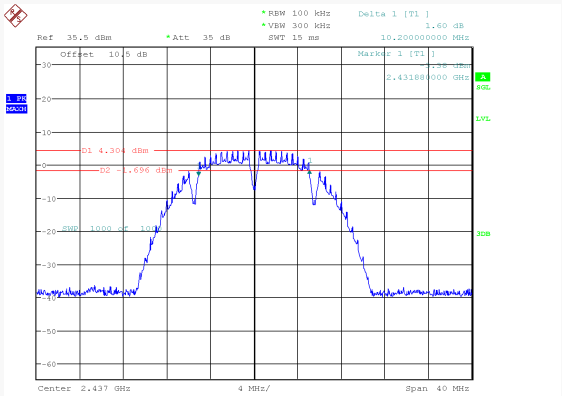
Chain 0:

802.11b Mode Low Channel



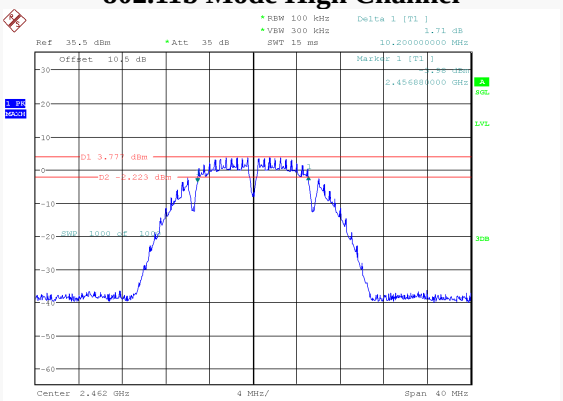
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:42:20

802.11b Mode Middle Channel



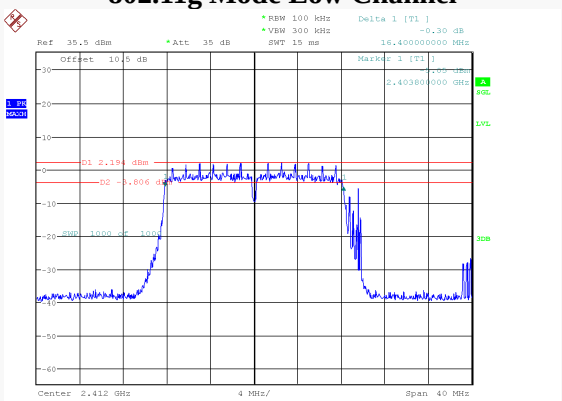
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:44:00

802.11b Mode High Channel



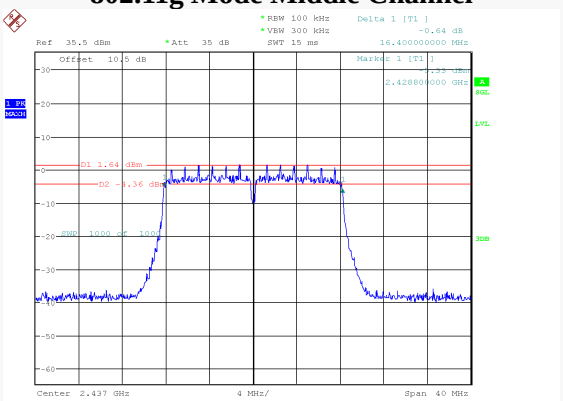
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:45:48

802.11g Mode Low Channel



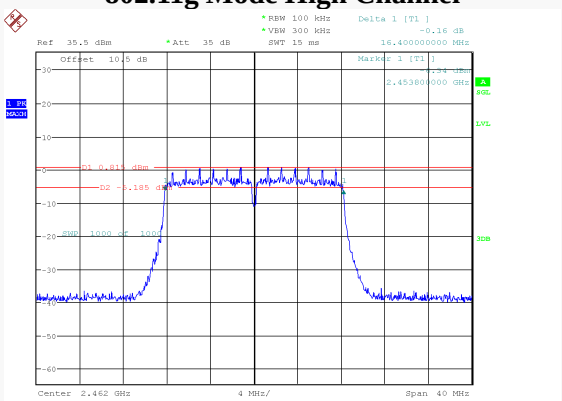
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:47:11

802.11g Mode Middle Channel



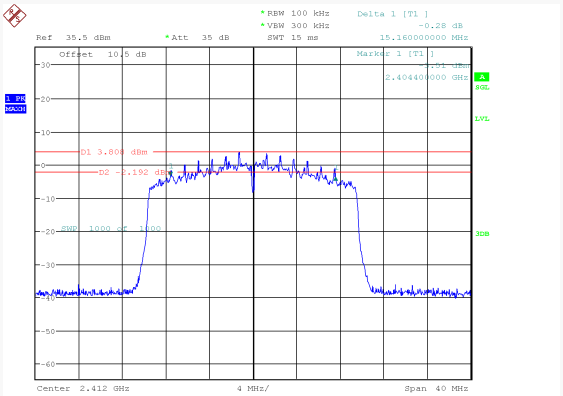
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:48:26

802.11g Mode High Channel



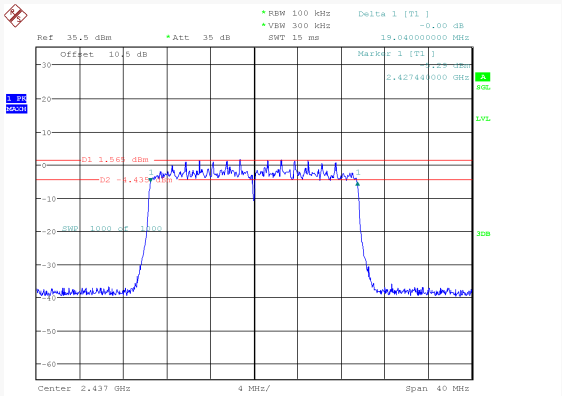
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:50:42

802.11ax20 Mode Low Channel



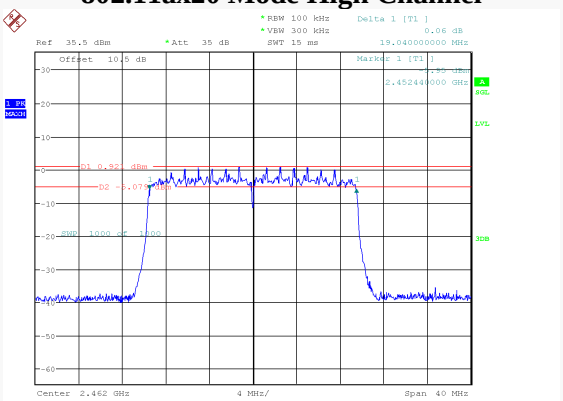
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 24.JAN.2025 09:24:17

802.11ax20 Mode Middle Channel



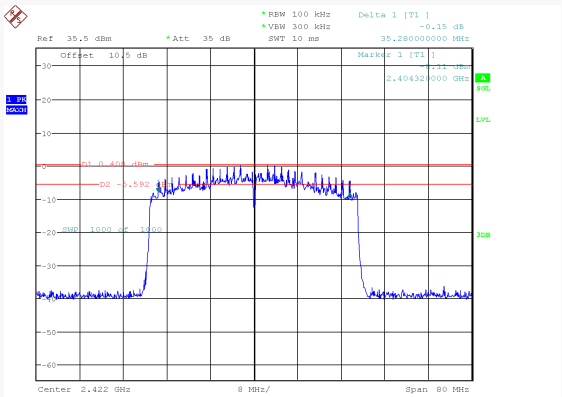
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 24.JAN.2025 09:26:39

802.11ax20 Mode High Channel



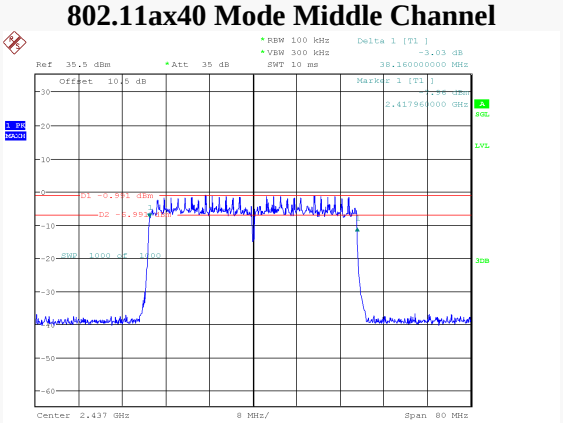
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 24.JAN.2025 09:28:48

802.11ax40 Mode Low Channel



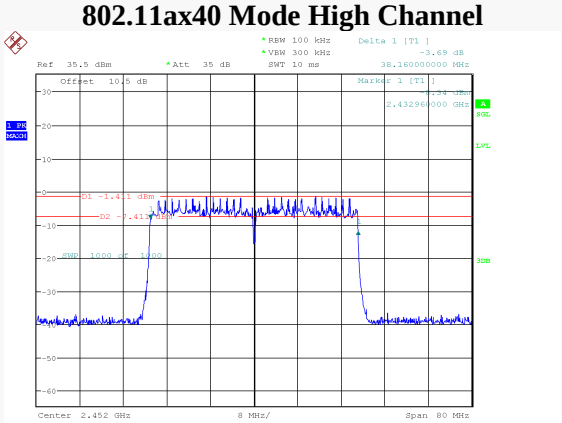
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 24.JAN.2025 09:30:58

802.11ax40 Mode Middle Channel



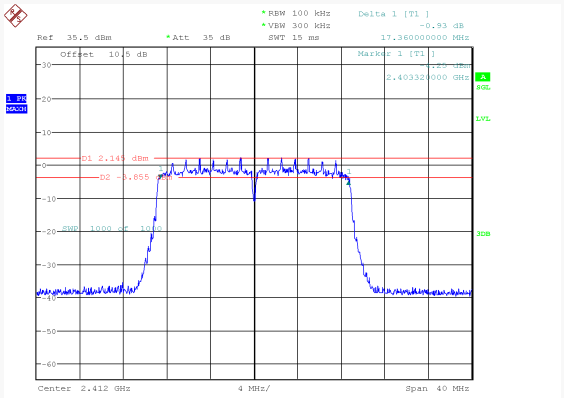
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 24.JAN.2025 09:32:31

802.11ax40 Mode High Channel



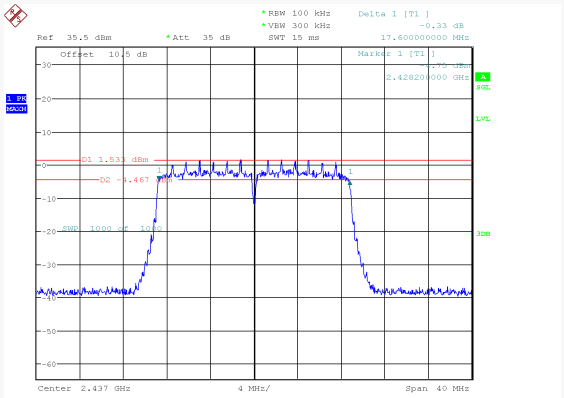
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 24.JAN.2025 09:33:42

802.11n20 Mode Low Channel



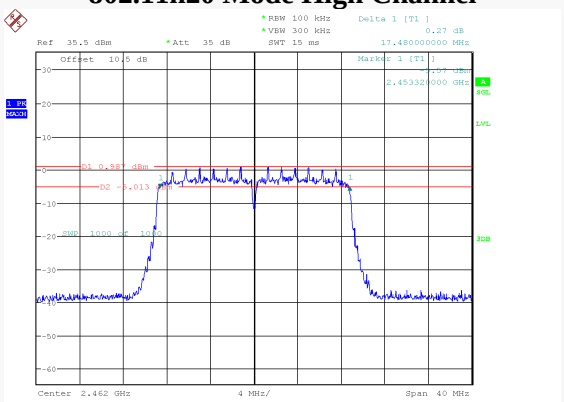
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:52:50

802.11n20 Mode Middle Channel



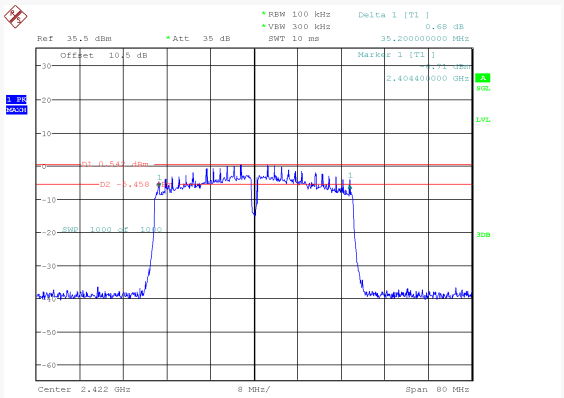
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:54:04

802.11n20 Mode High Channel



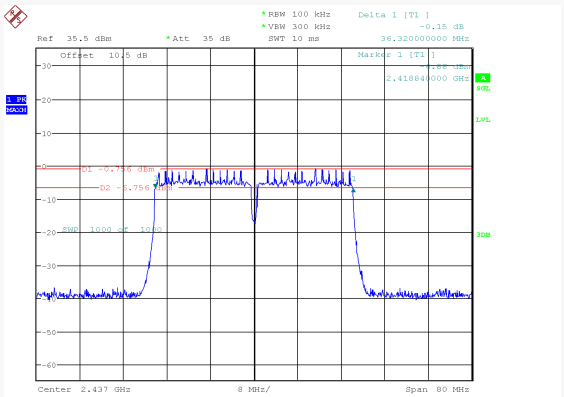
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:56:30

802.11n40 Mode Low Channel



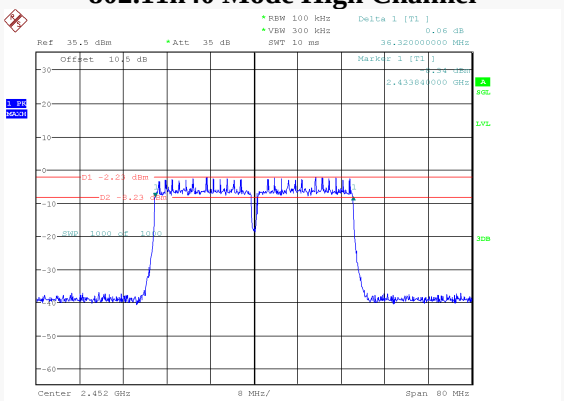
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:57:54

802.11n40 Mode Middle Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:59:07

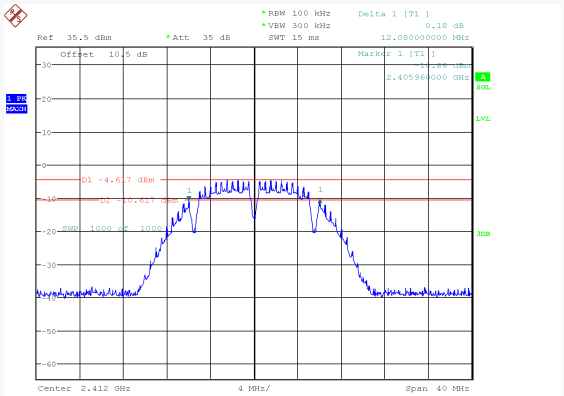
802.11n40 Mode High Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 18:00:08

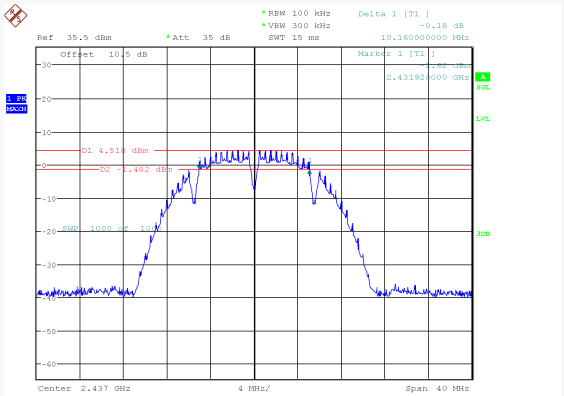
Chain 1:

802.11b Mode Low Channel



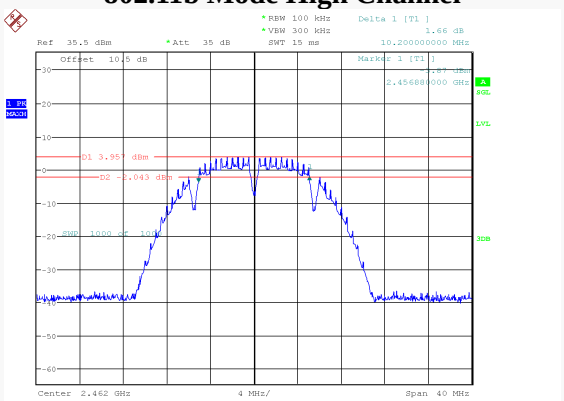
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 16:56:38

802.11b Mode Middle Channel



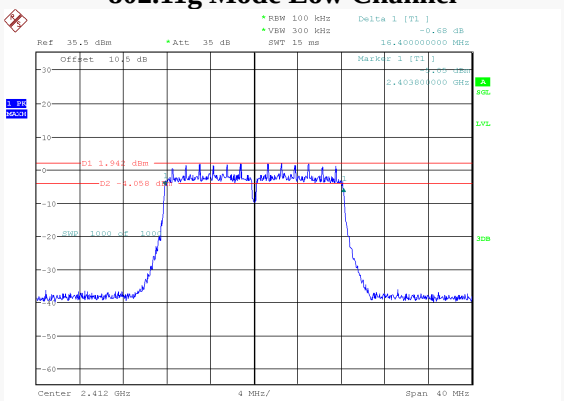
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:02:11

802.11b Mode High Channel



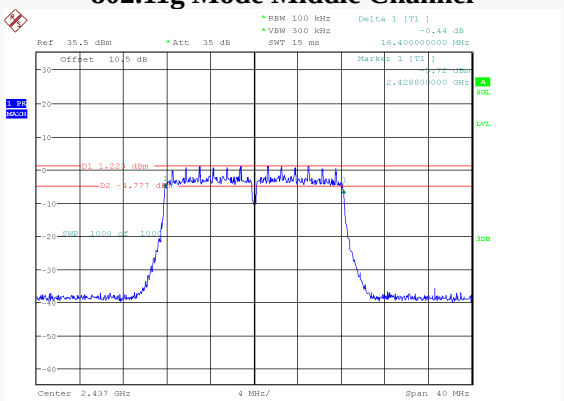
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:06:11

802.11g Mode Low Channel



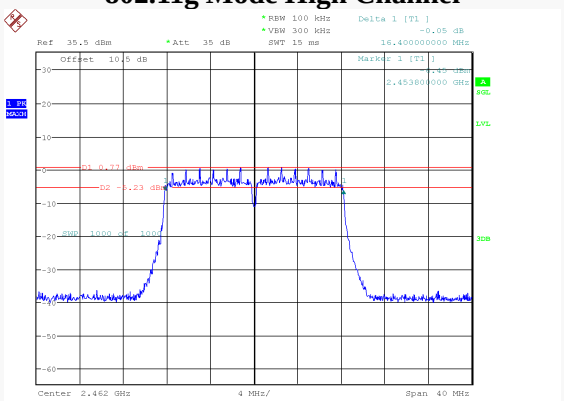
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:07:49

802.11g Mode Middle Channel



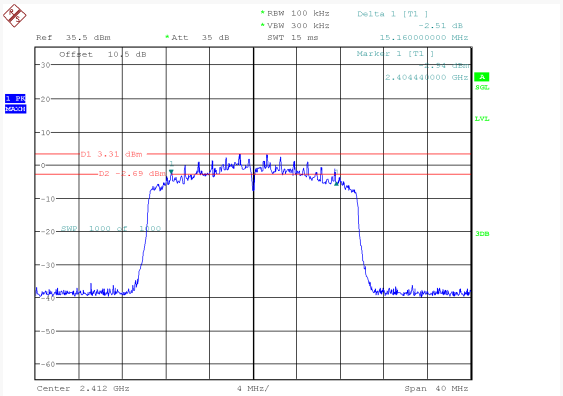
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:09:13

802.11g Mode High Channel



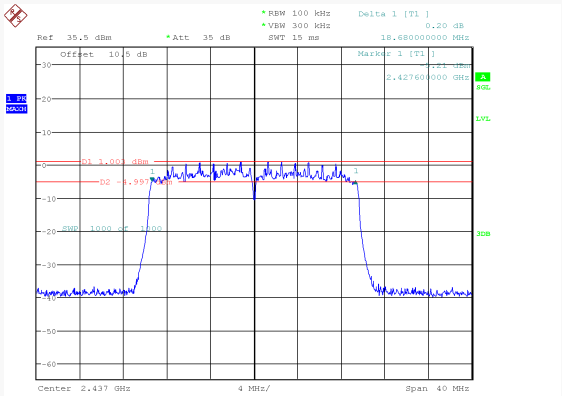
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:11:05

802.11ax20 Mode Low Channel



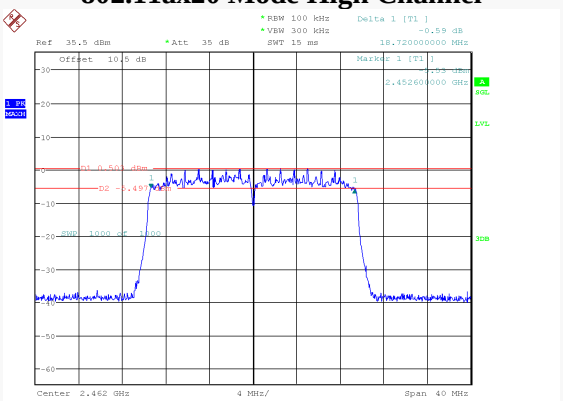
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:27:42

802.11ax20 Mode Middle Channel



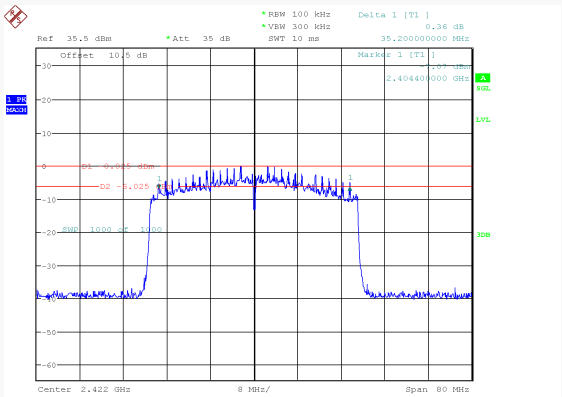
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:29:41

802.11ax20 Mode High Channel



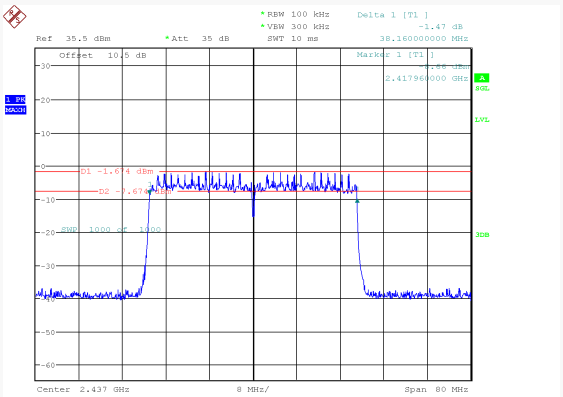
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:32:06

802.11ax40 Mode Low Channel



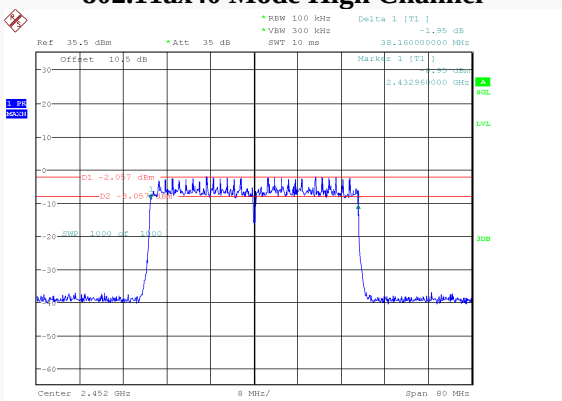
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:33:52

802.11ax40 Mode Middle Channel



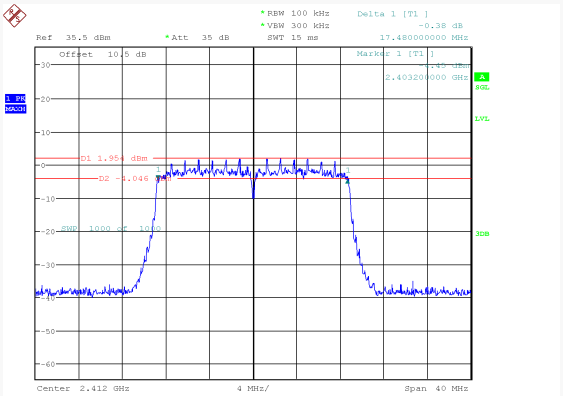
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:35:02

802.11ax40 Mode High Channel



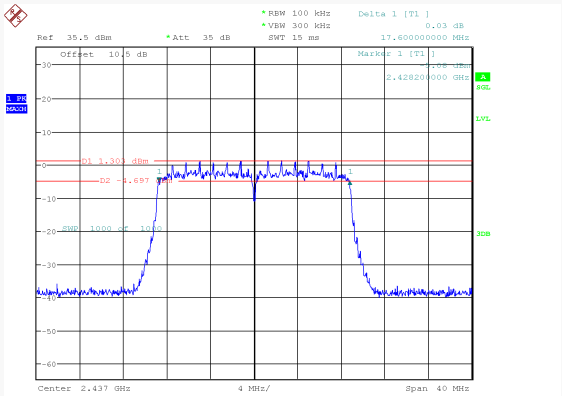
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:36:15

802.11n20 Mode Low Channel



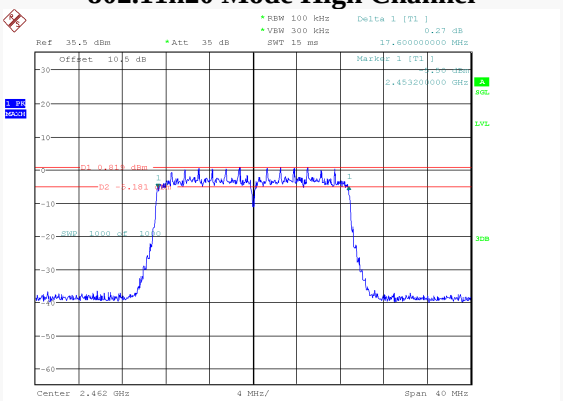
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:13:23

802.11n20 Mode Middle Channel



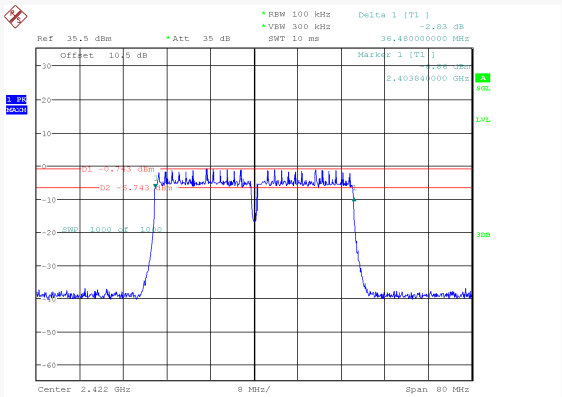
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:15:39

802.11n20 Mode High Channel



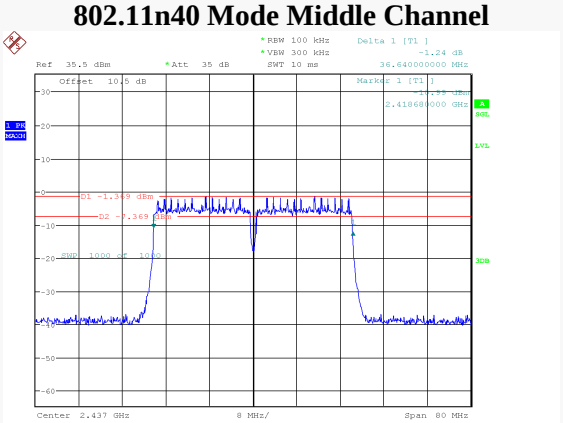
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:18:06

802.11n40 Mode Low Channel



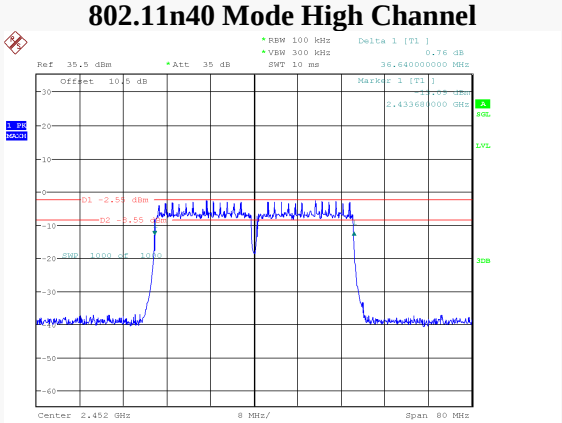
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:38:59

802.11n40 Mode Middle Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:24:00

802.11n40 Mode High Channel

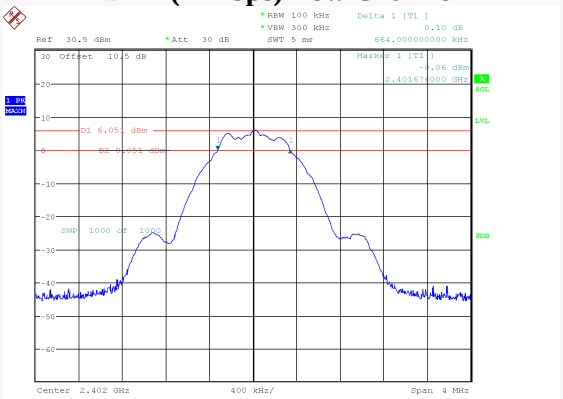


ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 23.JAN.2025 17:25:38

For BLE Mode:

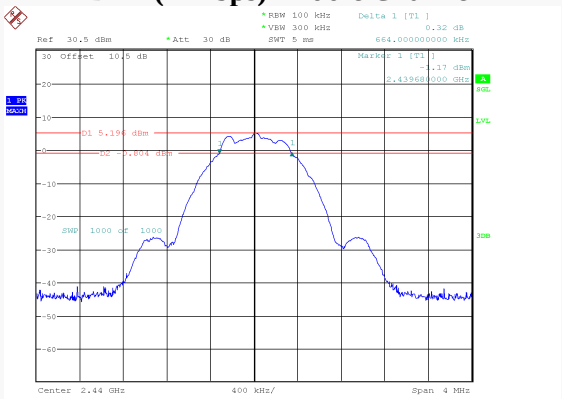
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (1Mbps)	Low	2402	0.664	≥0.5
	Middle	2440	0.664	≥0.5
	High	2480	0.664	≥0.5
BLE (2Mbps)	Low	2402	1.140	≥0.5
	Middle	2440	1.116	≥0.5
	High	2480	0.966	≥0.5

BLE (1 Mbps) Low Channel



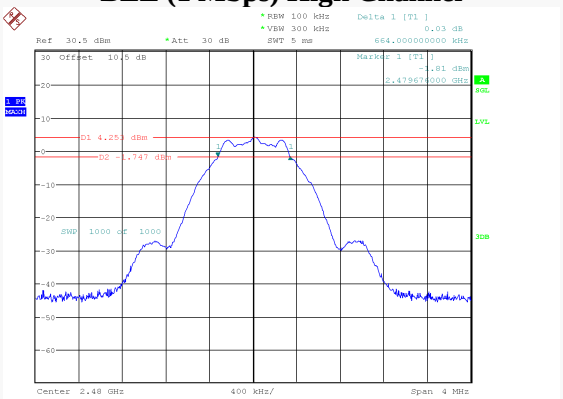
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 13.JAN.2025 13:42:41

BLE (1 Mbps) Middle Channel



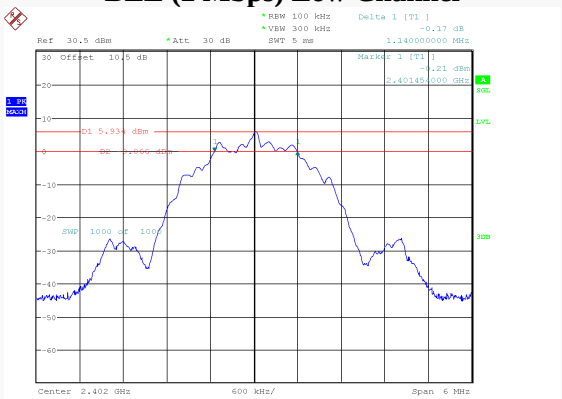
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 13.JAN.2025 13:56:53

BLE (1 Mbps) High Channel



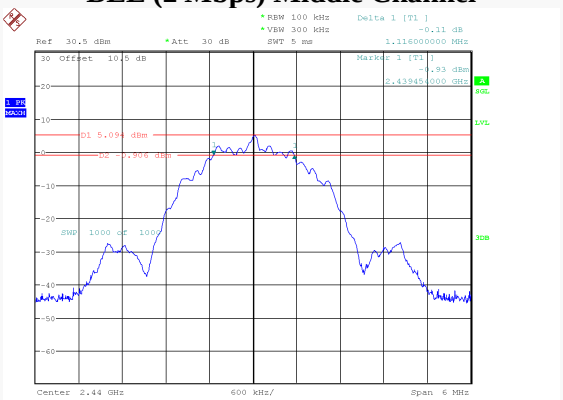
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 13.JAN.2025 14:03:46

BLE (2 Mbps) Low Channel



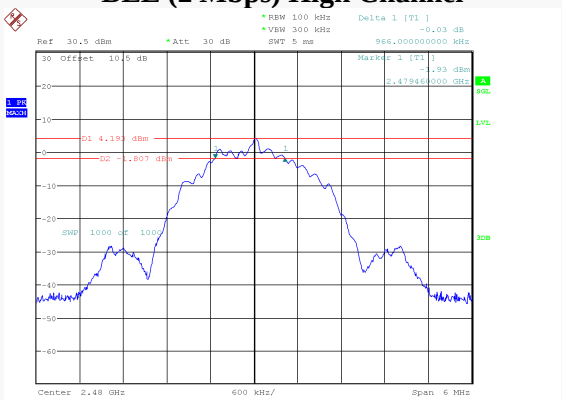
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 13.JAN.2025 14:09:27

BLE (2 Mbps) Middle Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 13.JAN.2025 14:14:16

BLE (2 Mbps) High Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 13.JAN.2025 14:22:46

OCCUPIED BANDWIDTH

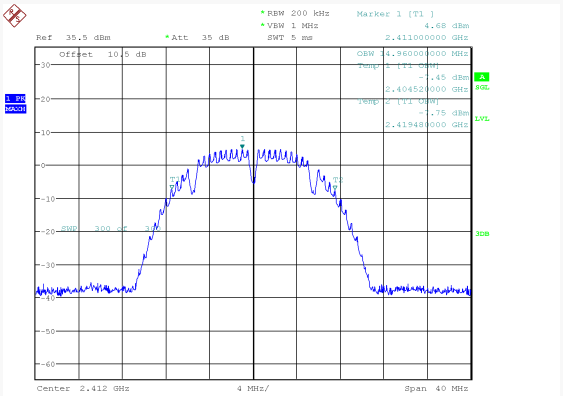
EUT operation mode: Transmitting

For Wi-Fi Mode:

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11b	Chain 0	2412	14.960
		2437	15
		2462	14.960
	Chain 1	2412	15
		2437	15
		2462	15
802.11g	Chain 0	2412	16.400
		2437	16.400
		2462	16.400
	Chain 1	2412	16.400
		2437	16.400
		2462	16.360
802.11n-HT20	Chain 0	2412	17.520
		2437	17.560
		2462	17.560
	Chain 1	2412	17.560
		2437	17.560
		2462	17.560
802.11n-HT40	Chain 0	2422	35.760
		2437	36.240
		2452	36.160
	Chain 1	2422	35.760
		2437	36.080
		2452	36.640
802.11ax-HE20	Chain 0	2412	18.920
		2437	18.920
		2462	18.960
	Chain 1	2412	18.800
		2437	19.080
		2462	19.120
802.11ax-HE40	Chain 0	2422	37.200
		2437	37.760
		2452	37.760
	Chain 1	2422	37.360
		2437	38.000
		2452	38.000

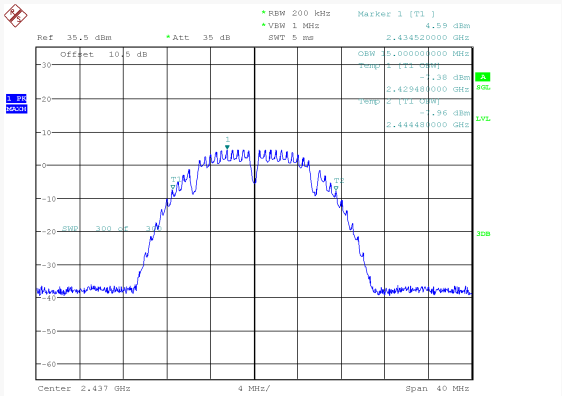
Chain 0

802.11b Mode Low Channel



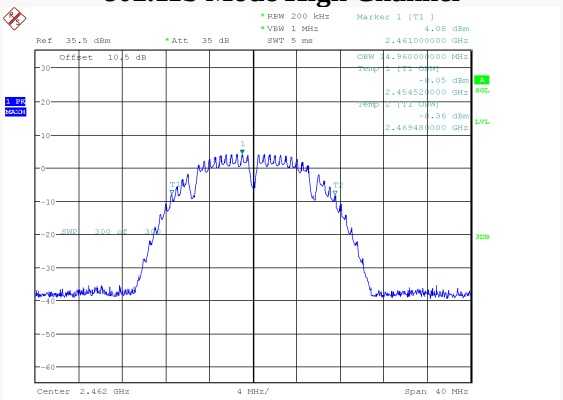
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 17:51:25

802.11b Mode Middle Channel



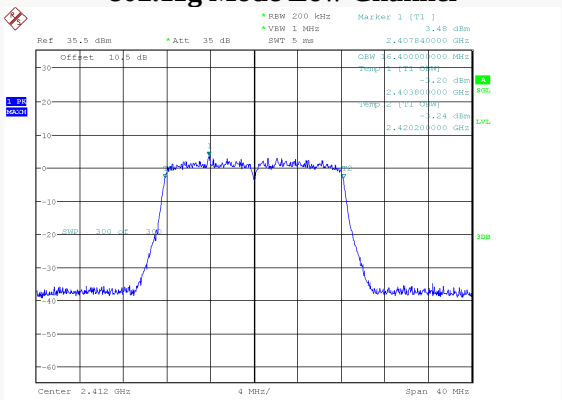
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 17:37:30

802.11b Mode High Channel



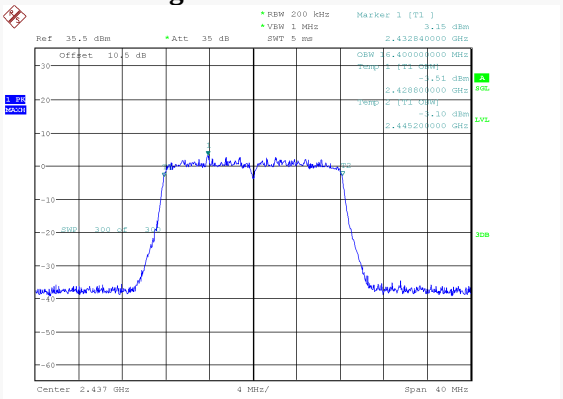
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 17:43:38

802.11g Mode Low Channel



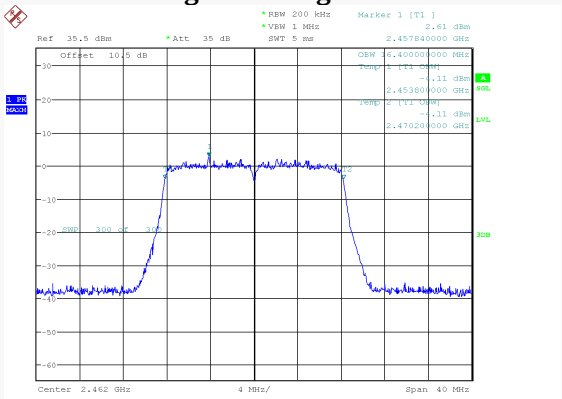
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:02:49

802.11g Mode Middle Channel



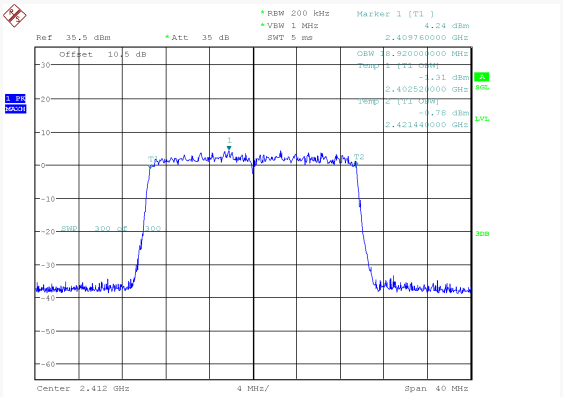
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:11:24

802.11g Mode High Channel



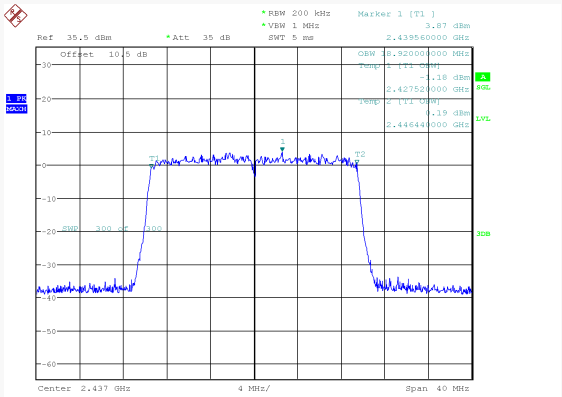
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:19:05

802.11ax-HE20 Mode Low Channel



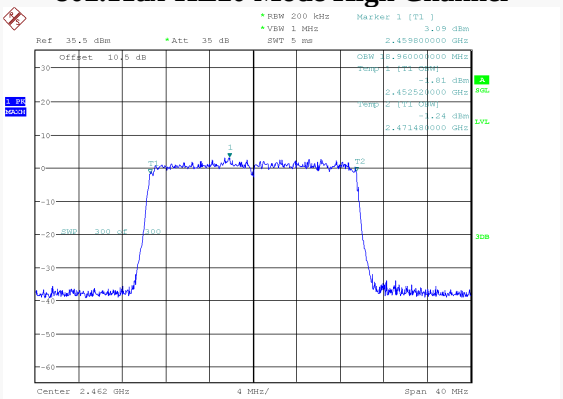
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 09:23:26

802.11ax-HE20 Mode Middle Channel



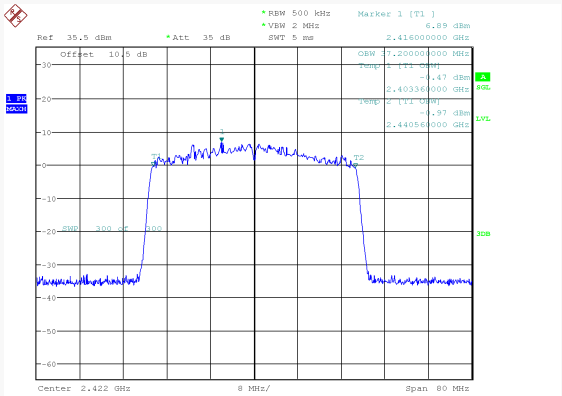
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 09:32:58

802.11ax-HE20 Mode High Channel



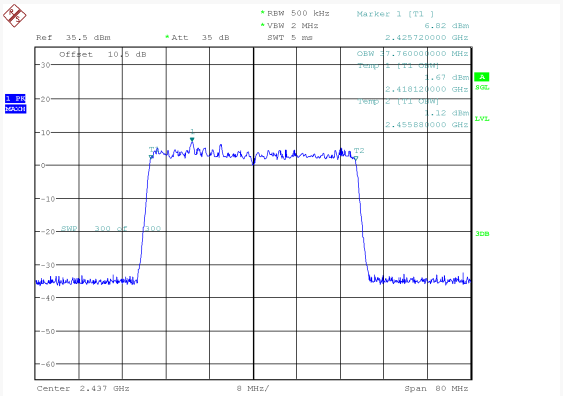
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 09:42:12

802.11ax-HE40 Mode Low Channel



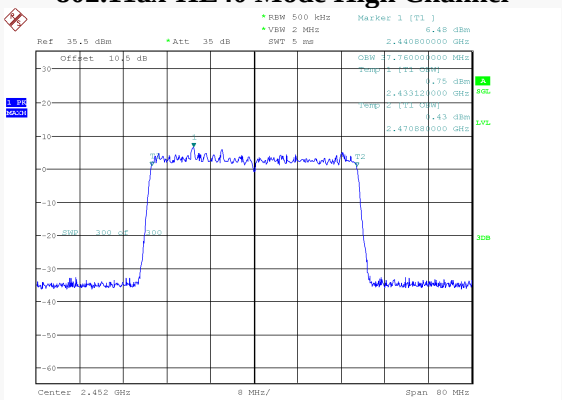
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 09:52:11

802.11ax-HE40 Mode Middle Channel



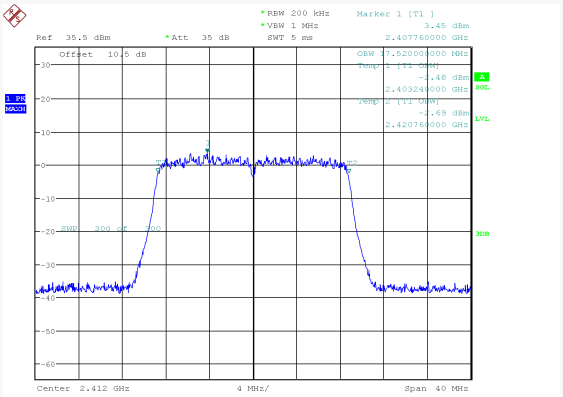
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 10:08:55

802.11ax-HE40 Mode High Channel



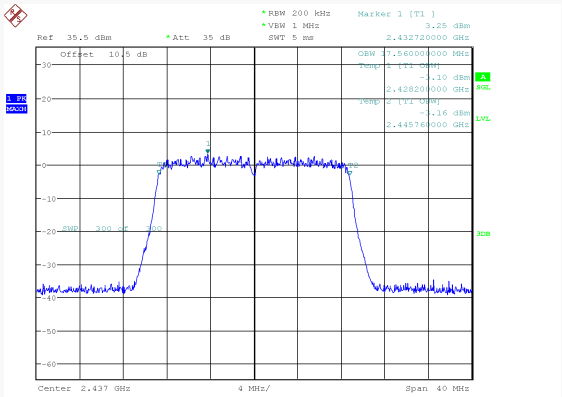
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 10:23:15

802.11n-HT20 Mode Low Channel



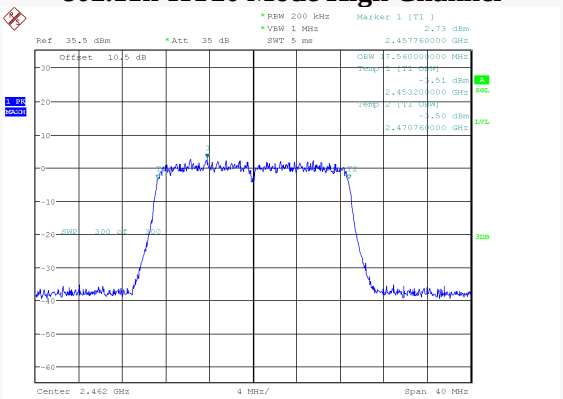
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:29:36

802.11n-HT20 Mode Middle Channel



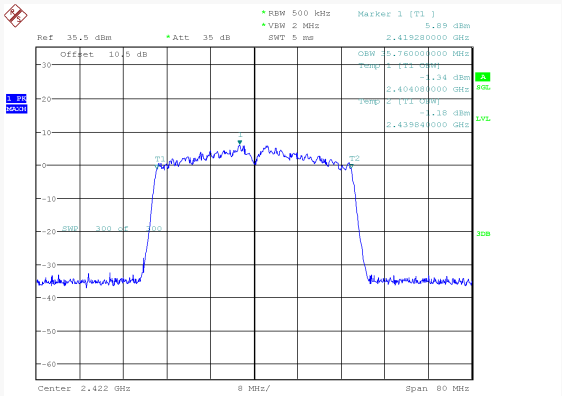
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:38:43

802.11n-HT20 Mode High Channel



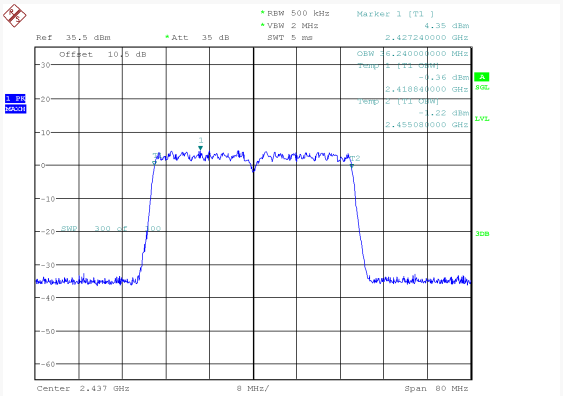
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:46:45

802.11n-HT40 Mode Low Channel



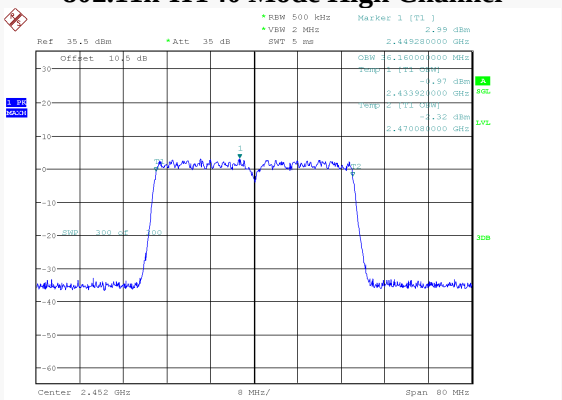
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 18:56:14

802.11n-HT40 Mode Middle Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 19:10:11

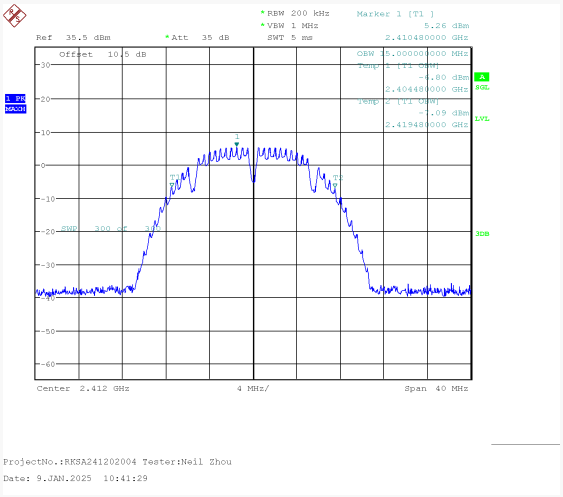
802.11n-HT40 Mode High Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 8.JAN.2025 19:49:30

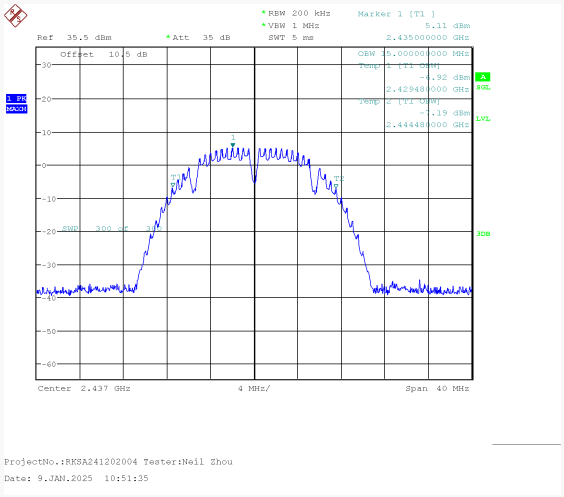
Chain 1

802.11b Mode Low Channel



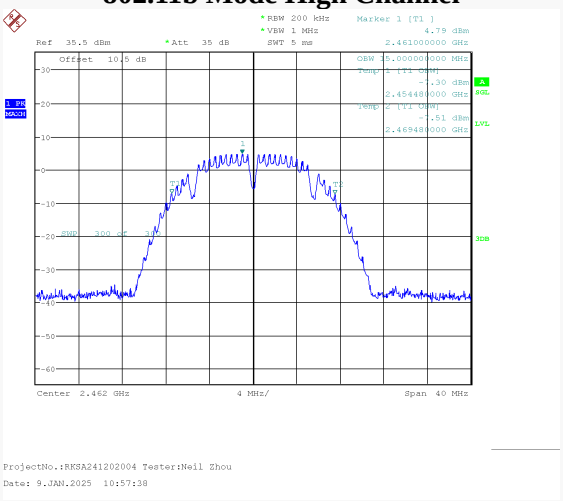
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 10:41:29

802.11b Mode Middle Channel



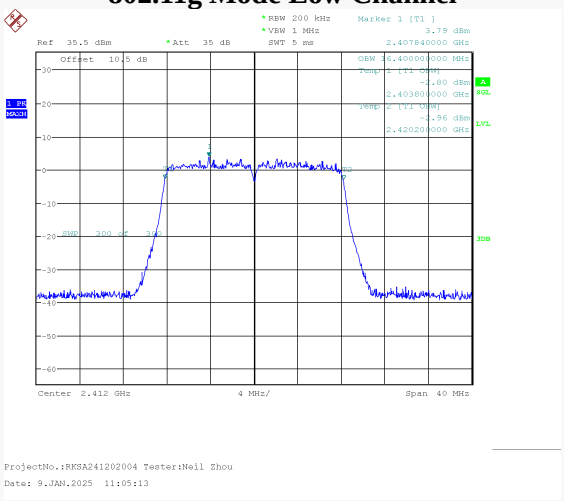
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 10:51:35

802.11b Mode High Channel



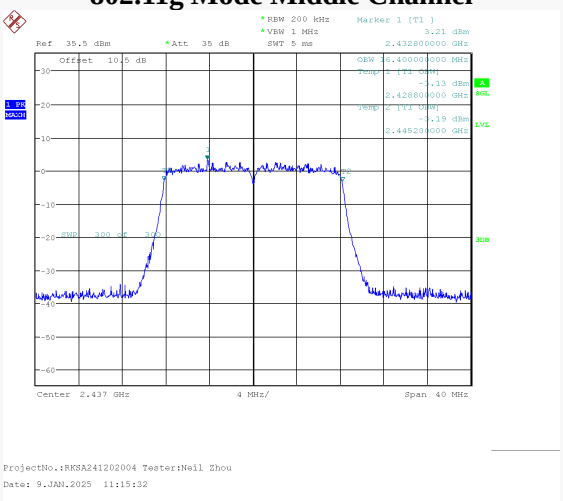
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 10:57:38

802.11g Mode Low Channel



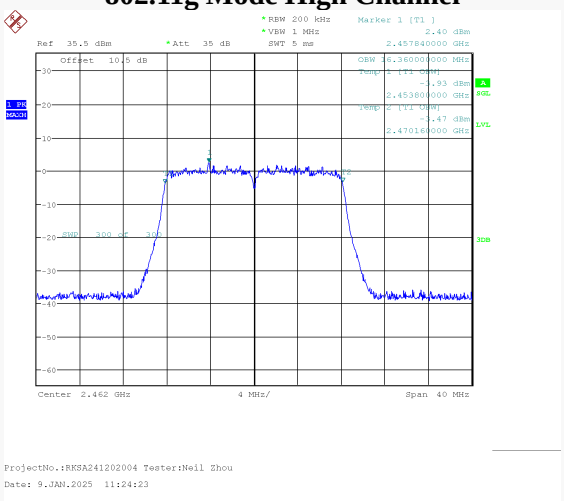
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 11:05:13

802.11g Mode Middle Channel



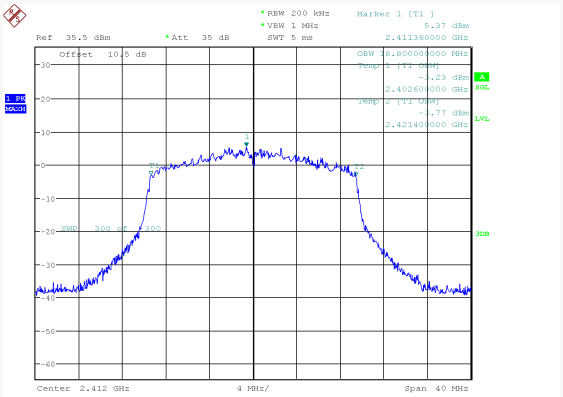
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 11:15:32

802.11g Mode High Channel



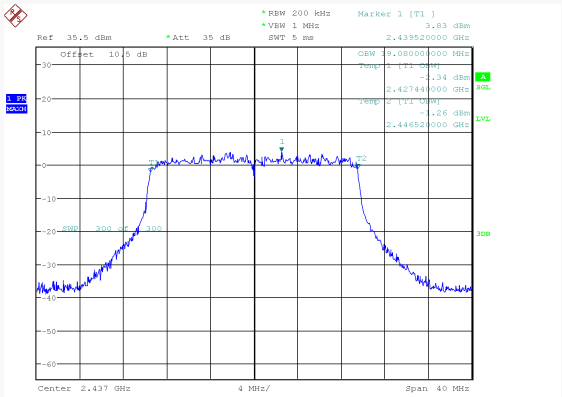
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 11:24:23

802.11ax-HE20 Mode Low Channel



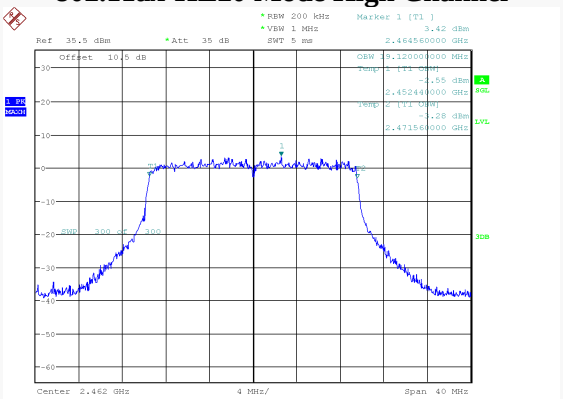
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 13:46:07

802.11ax-HE20 Mode Middle Channel



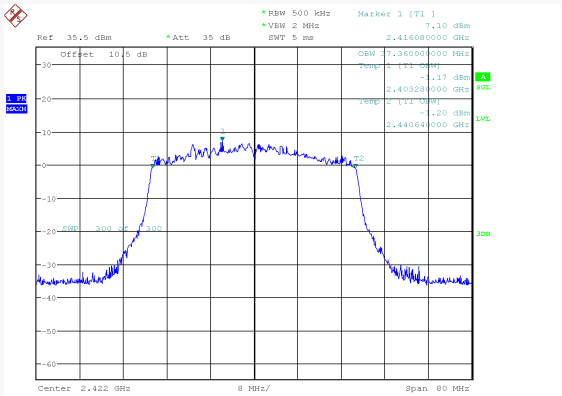
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 13:56:27

802.11ax-HE20 Mode High Channel



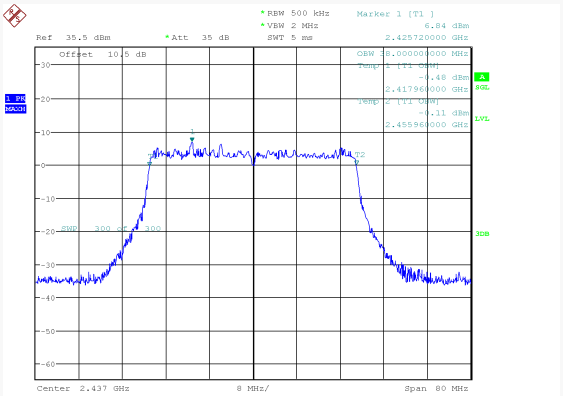
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 14:05:27

802.11ax-HE40 Mode Low Channel



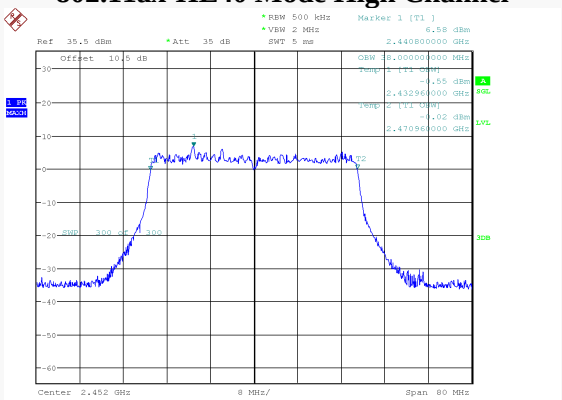
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 14:14:32

802.11ax-HE40 Mode Middle Channel



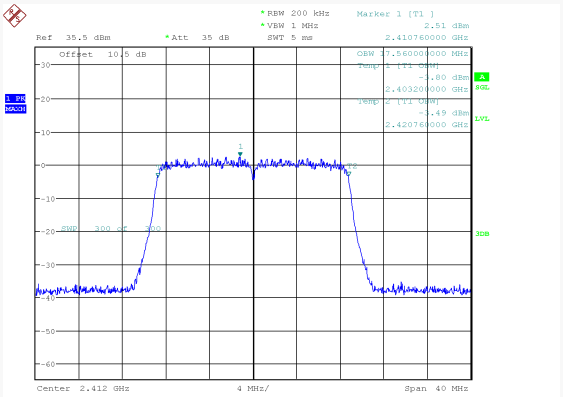
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 14:28:53

802.11ax-HE40 Mode High Channel



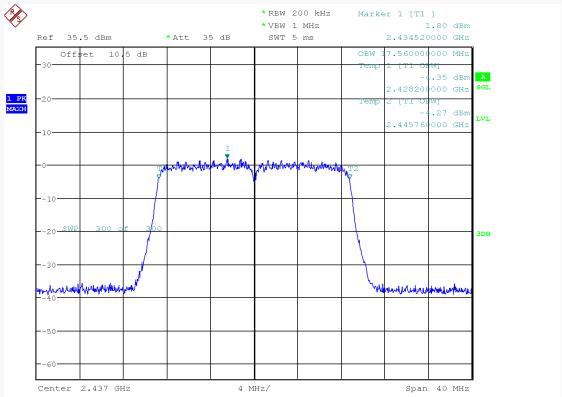
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 14:42:36

802.11n-HT20 Mode Low Channel



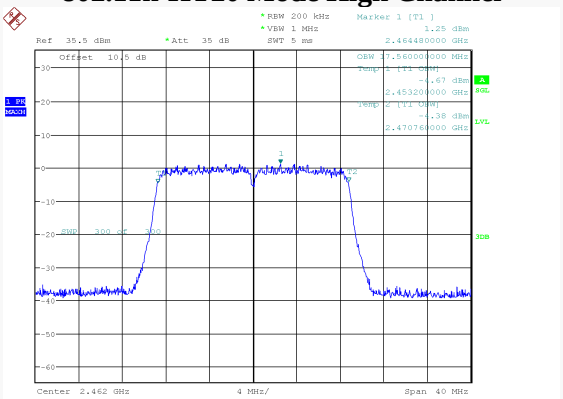
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 11:33:11

802.11n-HT20 Mode Middle Channel



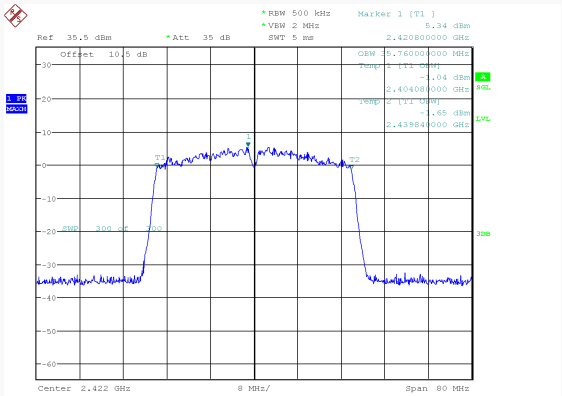
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 11:42:22

802.11n-HT20 Mode High Channel



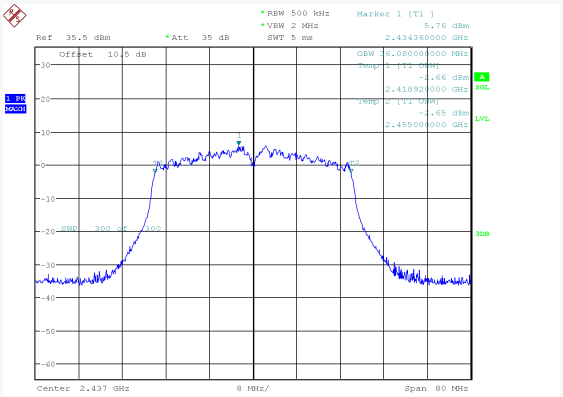
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 11:50:33

802.11n-HT40 Mode Low Channel



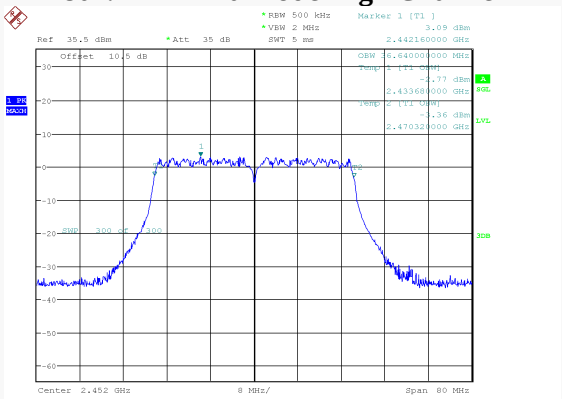
ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 12:00:58

802.11n-HT40 Mode Middle Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 13:07:37

802.11n-HT40 Mode High Channel



ProjectNo.:RKSA241202004 Tester:Neil Zhou
Date: 9.JAN.2025 13:28:10