

#### **ELEMENT WASHINGTON DC LLC**

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# MEASUREMENT REPORT FCC PART 15.247 802.11b/g/n/ax/be (OFDM)

**Applicant Name:** 

Samsung Electronics Co., Ltd. 129, Samsung-ro,

Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea **Date of Testing:** 

9/6/2023 - 11/06/2023

**Test Report Issue Date:** 

11/06/2023

Test Site/Location:

Element lab., Columbia, MD, USA

**Test Report Serial No.:** 1M2312110124-06.A3L

FCC ID: A3LSMS928JPN

APPLICANT: Samsung Electronics Co., Ltd.

Application Type: Certification

Model: SC-52E

Additional Model(s): SCG26

EUT Type:Portable HandsetFrequency Range:2412 – 2472MHzModulation Type:CCK, DSSS, OFDM

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (15.247)

**Test Procedure(s):** ANSI C63.10-2013, KDB 648474 D03 v01r04,

KDB 484596 D01 v02r02

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President





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		Antl			Ant2			MIMO					
IEEE Mode Tx Frequency [MHz]	Tx Frequency	Avg. Conducted		Peak Conducted		Avg. Conducted		Peak Conducted		Avg. Conducted		Peak Conducted	
	Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]	Max. Power [mW]	Max. Power [dBm]	
802.11b	2412 - 2472	60.26	17.80	158.49	22.00	62.95	17.99	99.54	19.98	112.20	20.50	109.86	20.41
802.11g	2412 - 2472	60.81	17.84	273.53	24.37	58.67	17.68	249.75	23.98	117.76	20.71	237.45	23.76
802.11n	2412 - 2472	61.38	17.88	307.61	24.88	54.64	17.38	250.03	23.98	117.49	20.70	521.01	27.17
802.11ac	2412 - 2472	54.89	17.40	259.48	24.14	52.36	17.19	244.91	23.89	119.40	20.77	558.00	27.47
802.11ax	2412 - 2472	60.94	17.85	287.01	24.58	57.17	17.57	288.14	24.60	118.03	20.72	575.15	27.60
802.11be	2412 - 2472	62.37	17.95	329.61	25.18	58.12	17.64	278.16	24.44	117.76	20.71	582.01	27.65

**EUT Overview** 

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#### INTRODUCTION

#### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and\\or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

#### 1.2 **Element Test Location**

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

#### 1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO\\IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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## PRODUCT INFORMATION

#### 2.1 **Equipment Description**

The Equipment Under Test (EUT) is the Samsung Portable Handset FCC ID: A3LSMS928JPN. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: 0876M, 0042M, 0085M, 0854M, 0900M

#### 2.2 **Device Capabilities**

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, UWB

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. Frequency \ Channel Operations

#### Notes:

1. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of ANSI C63.10-2013 and KDB 558074 D01 v05r02. The RBW and VBW were both greater than 50\T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band		ANT1	ANT2	MIMO (1+2)
		Duty Cycle [%]		
	b	98.85	98.85	98.85
2.4GHz	g	96.32	96.32	96.29
	n (HT20)	97.90	97.90	97.90
	ac (VHT20)	97.90	97.88	95.93
	ax (HE20)	99.63	99.65	99.67
	be (EHT20)	99.63	99.63	99.65

**Table 2-2. Measured Duty Cycles** 

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2. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
WIFI COIII	WiFi Configurations		ANT2	ANT1	ANT2	ANT1	ANT2
	11b	✓	✓	×	*	✓	✓
	11g	✓	✓	×	*	✓	✓
2.4GHz	11n	✓	✓	✓	✓	✓	✓
	11ac	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

✓= Support; × = NOT Support

SISO = Single Input Single Output

**SDM** = Spatial Diversity Multiplexing – MIMO function

**CDD** = Cyclic Delay Diversity - 2Tx Function

3. The device supports the following data rates (shown in Mbps):

802.11b	802.11a/g	MCS	MCS Index		OFDM (	802.11n)	OF	DM (802.11	.ax)
201411-	OMHz 20MHz			Stream	201	ЛHz		20MHz	
ZUIVINZ	ZUIVINZ	HT	HE		0.8μs GI	0.4μs GI	0.8μs GI	1.6μs GI	3.2µs GI
1	6	0	0	1	6.5	7.2	8.6	8.1	7.3
2	9	1	1	1	13	14.4	17.2	16.3	14.6
5.5	12	2	2	1	19.5	21.7	25.8	24.4	21.9
11	18	3	3	1	26	28.9	34.4	32.5	29.3
	24	4	4	1	39	43.3	51.6	48.8	43.9
	36	5	5	1	52	57.8	68.8	65	58.5
	48	6	6	1	58.5	65	77.4	73.1	65.8
	54	7	7	1	65	72.2	86	81.3	73.1
			8	1		`	103.2	97.5	87.8
			9	1			114.7	108.3	97.5
			10	1			129	121.9	109.7
			11	1	,		143.4	135.4	121.9
1	6	8	0	2	13	14.4	17.2	16.3	14.6
2	9	9	1	2	26	28.9	34.4	32.5	29.3
5.5	12	10	2	2	39	43.3	51.6	48.8	43.9
11	18	11	3	2	52	57.8	68.8	65	58.5
	24	12	4	2	78	86.7	103.2	97.5	87.8
	36	13	5	2	104	115.6	137.6	130	117
	48	14	6	2	117	130	154.9	146.3	131.6
	54	15	7	2	130	144.4	172.1	162.5	146.3
			8	2	156	173.3	206.5	195	175.5
			9	2	N/A	N/A	229.4	216.7	195
			10	2			258.1	243.8	219.4
			11	2			286.8	270.8	243.8

**Table 2-3. Supported Data Rates** 

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### 2.3 Test Configuration

ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 0 for AC line conducted emissions test setups, 7.7 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) EP-P2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

### 2.4 Antenna Description

The following antenna gains were used for the testing.

Frequency [GHz]	Antenna-1 Gain [dBi]	Antenna-2 Gain [dBi]	Directional Gain [dBi]
2.4	-1.05	-3.52	0.81

Table 2-4. Antenna Peak Gain

#### 2.5 Software and Firmware

The test was conducted with software\firmware version S928USQU0AW19 installed on the EUT.

### 2.6 EMI Suppression Device(s) / Modifications

No EMI suppression device(s) were added and\or no modifications were made during testing.

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#### 3.0 DESCRIPTION OF TESTS

#### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) was used in the measurement of the EUT.

Deviation from measurement procedure......None

#### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 10'x16'x9' shielded enclosure. The shielded enclosure is manufactured by ETS Lindgren RF EnclosuresThe line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz,  $50\Omega\$ \\50\pm\H Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI\\RFI filters are ETS Lindgren Model LRW-2030-S1 (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration\\arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 0. The EMI Receiver mode of the Agilent MXE was used to perform AC line conducted emissions testing.

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#### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

#### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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# 4.0 ANTENNA REQUIREMENTS

#### Excerpt from §15.203 of the FCC Rules\Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antennas of the EUT are permanently attached.
- There are no provisions for connections to an external antenna.

#### Conclusion:

The EUT unit complies with the requirement of §15.203.

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# 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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# 6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	AP2-001	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	AP2-001
-	ETS-001	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	ETS-001
-	ETS-002	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	ETS-002
-	MD 1M 18-40	EMC Cable and Switch System	1/11/2023	Annual	1/11/2024	MD 1M 18-40
-	WL40-1	Conducted Cable Set (40GHz)	1/12/2023	Annual	1/12/2024	WL40-1
-	WL25-1	Conducted Cable Set (25GHz)	1/12/2023	Annual	1/12/2024	WL25-1
Anritsu	MA24406A	Microwave Peak Power Sensor	9/7/2023	Annual	9/7/2024	11240
Emco	3115	Horn Antenna (1-18GHz)	8/8/2022	Biennial	8/8/2024	9704-5182
Emco	3116	Horn Antenna (18 - 40GHz)	7/5/2022	Biennial	7/5/2024	9203-2178
Pastermack	MNLC-2	Line Conducted Emission Cable (NM)	1/11/2023	Annual	1/11/2024	NMLC-2
ETS-Lindgren	3816/2NM	Line Impedance Stabilization Network	8/11/2022	Biennial	8/11/2024	114451
ETS Lindgren	3116C	1-18 GHz DRG Horn Antenna	2/27/2023	Biennial	2/27/2024	00218893
ETS Lindgren	3115	Double Ridged Guide Horn	4/12/2022	Biennial	4/12/2024	82333
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	4/13/2022	Biennial	4/13/2025	121034
Keysight Technologies	N9020A	MXA Signal Analyzer	3/15/2023	Annual	3/15/2024	MY54500644
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	3/15/2023	Annual	3/15/2024	MY52350166
Keysight Technologies	N9030A	PXA Signal Analyzer	1/31/2023	Annual	1/31/2024	MY55410501
Keysight Technologies	N9030B	PXA Signal Analyzer, Multi-touch	9/7/2023	Annual	9/7/2024	MY57141001
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	9/25/2023	Annual	9/25/2024	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	9/11/2023	Annual	9/11/2024	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/1/2023	Annual	3/1/2024	101716
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and Spectrum Analyzer	11/6/2022	Annual	11/6/2023	103187
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	1/13/2023	Annual	1/13/2024	103200
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	2/21/2023	Biennial	2/21/2025	A051107
Sunol	JB6	LB6 Antenna	3/2/2023	Biennial	3/2/2025	A082816

Table 6-1. Annual Test Equipment Calibration Schedule

#### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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### 7.0 TEST RESULTS

## 7.1 Summary

Company Name: <u>Samsung Electronics Co., Ltd.</u>

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FCC Classification: <u>Digital Transmission System (DTS)</u>

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2(a)]	6dB Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.		PASS	Section 7.2
15.247(b)(3)	RSS-247 [5.4(b)]	Transmitter Output Power	shall not exceed 1 W		PASS	Section 7.3
N\A	RSS-247 [5.4(b)]	e.i.r.p.	shall not exceed 4 W	CONDUCTED	PASS	Section 7.3
15.247(e)	RSS-247 [5.2(b)]	Transmitter Power Spectral Density	shall not be greater than 8 dBm in any 3 kHz band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge \\ Out-of-Band Emissions			PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Section 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	LINE CONDUCTED	PASS	Section 0

#### Table 7-1. Summary of Test Results

#### Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst-case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "WLAN Automation," Version 3.5.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.3.1.
- 6) Data was leveraged from test report 1M2308210092-13, FCC ID: A3LSMS928U. See Table 7-2 and Table 7-3 for results.

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FCC Rules	Test Item	Test Case	Units	Limit	Reference FCC ID: A3LSMS928U	Variant FCC ID: A3LSMS928JPN	Deviation	Max Deviation	Pass/Fail
2.1049, 15.247(a)(2)	6dB Bandwidth/Occupied Bandwidth	Ch.11, 802.11be, MIMO, Ant1	kHz	>500	19.12	19.13	0.01	N/A	PASS
15.247(e)	Power Spectral Density	Ch.11, 802.11b, MIMO	dBm	8	5.42	4.87	0.55	1	PASS
15.247(d)	Conducted Spurious Emissions	Ch.11, 802.11b, SISO, Ant2	dBc	>30	35.94	36.01	0.07	3	PASS
15.247(d)	Conducted Out-of-Band Emissions (Band Edge)	Ch.1, 802.11n, MIMO, Ant2	dBc	>30	31.68	33.52	1.84	3	PASS
15.209	Radiated Spurious Emissions	Ch.11, 802.11b, MIMO	dBm	54	40.84	41.22	0.38	3	PASS
15.209	Radiated Band Edge Emissions	Ch.11, 802.11ac, MIMO	dBm	54	50.65	50.61	0.04	3	PASS

Table 7-2. Summary of Spot-checks

					2.4GHz WII	FI (20MHz 802.1	1b MIMO)				
				Referenced Data			Variant Data				
Freq [MHz]	Channel	Detector	Cor	nducted Power [d	Bm]	Со	nducted Power [6	dBm]	Delta	Delta Limit	Re-use Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO			
17	6	Average	19.44	19.15	22.31	19.53	19.29	22.42	0.11	1.00	PASS
i7	6	Peak	22.37	22.05	25.22	22.41	22.17	25.30	0.08	1.00	PASS
	*				2.4GHz WI	FI (20MHz 802.1	1g MIMO)		·		
				Referenced Data			Variant Data				
Freq [MHz]	Channel	Detector	Cor	nducted Power [d	Bm]	Со	nducted Power [6	ucted Power [dBm]		Delta Limit	Re-us e Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO			
17	6	Average	17.87	17.52	20.71	17.91	18.43	21.19	0.48	1.00	PASS
17	6	Peak	20.81	20.68	23.76	20.75	20.72	23.75	0.01	1.00	PASS
					2.4GHz WII	FI (20MHz 802.1	1n MIMO)				
				Referenced Data			Variant Data				
Freq [MHz]	Channel	Detector	Cor	nducted Power [d	Bm]	Со	nducted Power [	dBm]	Delta	lta Delta Limit	Re-use Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO			
17	6	Average	17.75	17.62	20.70	17.81	17.66	20.75	0.05	1.00	PASS
17	6	Peak	24.32	23.99	27.17	24.55	24.08	27.33	0.16	1.00	PASS
					2.4GHz WIF	I (20MHz 802.11	ac MIMO)			•	
				Referenced Data			Variant Data				
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Со	nducted Power [	dBm]	Delta	Delta Limit	Re-us e Verdict	
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	1		
i7	6	Average	17.85	17.57	20.72	17.86	17.62	20.75	0.03	1.00	PASS
i7	6	Peak	24.19	24.22	27.22	24.22	24.04	27.14	0.07	1.00	PASS
					2.4GHz WIF	I (20MHz 802.11	ax MIMO)				
				Referenced Data			Variant Data				
Freq [MHz]	Channel	Detector	Cor	nducted Power [d	Bm]	Со	nducted Power [	dBm]	Delta	Delta Limit	Re-us e Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	7		
i7	6	Average	17.85	17.57	20.72	17.86	17.62	20.75	0.03	1.00	PASS
i7	6	Peak	24.58	24.60	27.60	24.62	24.66	27.65	0.05	1.00	PASS
					2.4GHz WIF	I (20MHz 802.11	be MIMO)				
				Referenced Data			Variant Data				
Freq [MHz]	Channel	Detector	Cor	nducted Power [d	Bm]	Со	Conducted Power [dBm]		Delta	Delta Limit	Re-us e Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO			
i7	6	Average	17.83	17.56	20.71	17.85	17.63	20.75	0.04	1.00	PASS
17	6	Peak	24.65	24.63	27.65	24.55	24.38	27.48	0.17	1.00	PASS

Table 7-3. Conducted Power Spot-checks

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#### 7.2 6dB Bandwidth Measurement

#### **Test Overview and Limit**

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The minimum 6 dB bandwidth shall be at least 500 kHz.

#### **Test Procedure Used**

ANSI C63.10-2013 - Section 11.8.2 Option 2

#### **Test Settings**

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100kHz
- 3. VBW  $\geq$  3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

#### **Test Notes**

None.

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### **6dB Bandwidth Measurements**

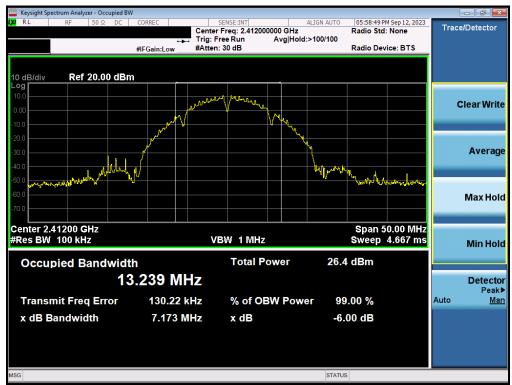
Frequency [MHz]	Channel No.	802.11 Mode	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	b	7.173	0.500
2437	6	b	7.615	0.500
2462	11	b	7.595	0.500
2412	1	g	16.38	0.500
2437	6	g	16.41	0.500
2462	11	g	16.40	0.500
2412	1	n	17.61	0.500
2437	6	n	17.62	0.500
2462	11	n	17.64	0.500
2412	1	be	19.10	0.500
2437	6	be	19.09	0.500
2462	11	be	19.11	0.500

Table 7-4. Conducted 6dB Bandwidth Measurements SISO ANT1

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#### 7.2.1 SISO Antenna-1 6dB Bandwidth Measurements



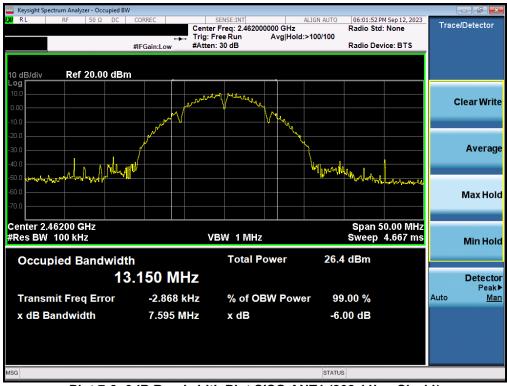
Plot 7-1. 6dB Bandwidth Plot SISO ANT1 (802.11b - Ch. 1)



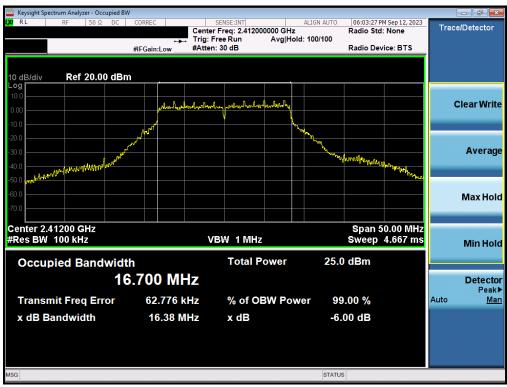
Plot 7-2. 6dB Bandwidth Plot SISO ANT1 (802.11b - Ch. 6)

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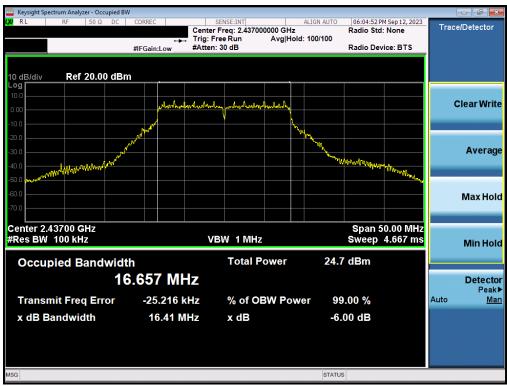
Plot 7-3. 6dB Bandwidth Plot SISO ANT1 (802.11b - Ch. 11)



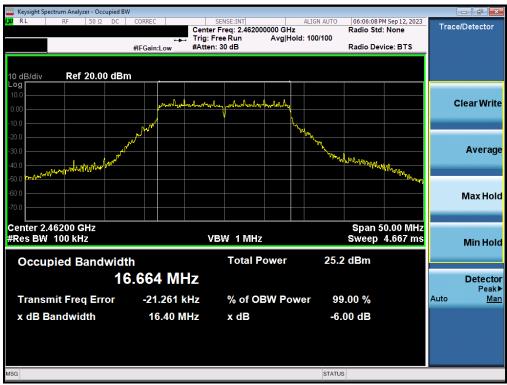
Plot 7-4. 6dB Bandwidth Plot SISO ANT1 (802.11g - Ch. 1)

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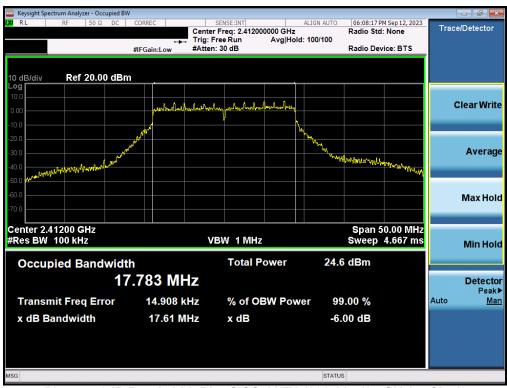
Plot 7-5. 6dB Bandwidth Plot SISO ANT1 (802.11g - Ch. 6)



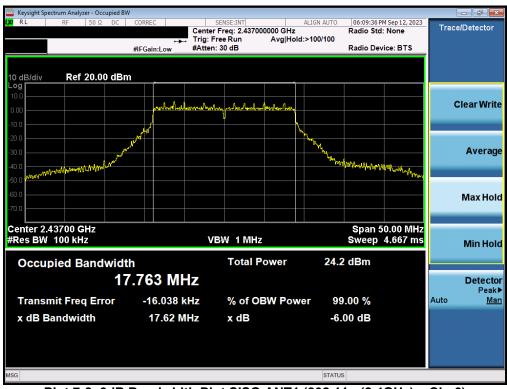
Plot 7-6. 6dB Bandwidth Plot SISO ANT1 (802.11g - Ch. 11)

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Plot 7-7. 6dB Bandwidth Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 1)

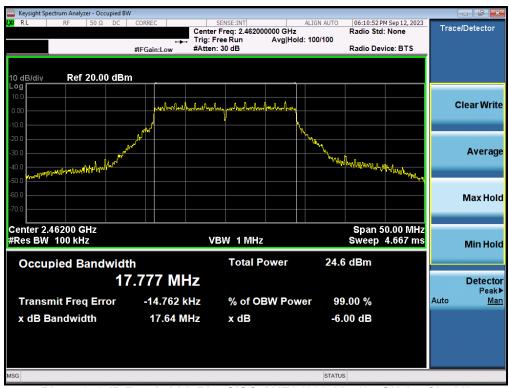


Plot 7-8. 6dB Bandwidth Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 6)

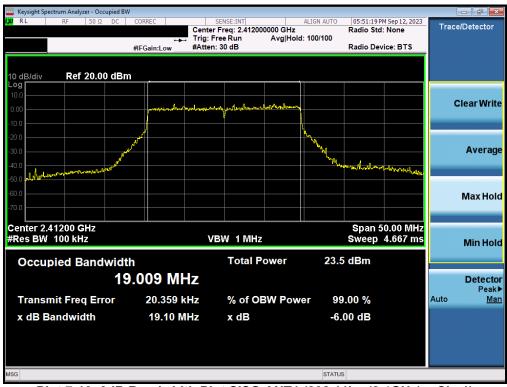
FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-9. 6dB Bandwidth Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 11)



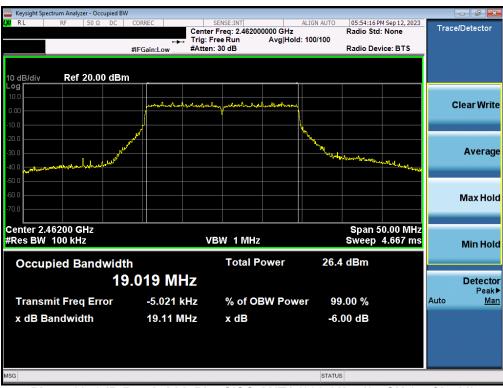
Plot 7-10. 6dB Bandwidth Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 1)

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Plot 7-11. 6dB Bandwidth Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 6)



Plot 7-12. 6dB Bandwidth Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 11)

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# 7.2.2 SISO Antenna-2 6dB Bandwidth Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	b	7.624	0.500
2437	6	b	7.588	0.500
2462	11	b	8.054	0.500
2412	1	g	16.38	0.500
2437	6	g	16.39	0.500
2462	11	g	16.37	0.500
2412	1	n	17.64	0.500
2437	6	n	17.63	0.500
2462	11	n	17.59	0.500
2412	1	be	19.02	0.500
2437	6	be	19.10	0.500
2462	11	be	19.10	0.500

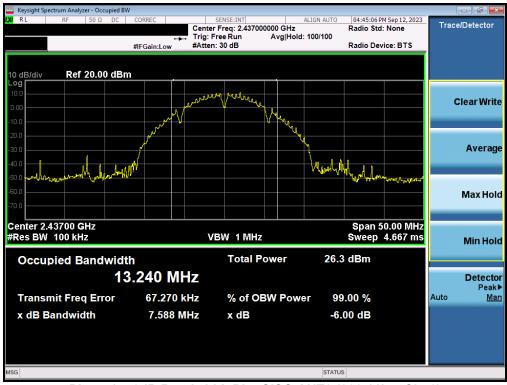
Table 7-5. Conducted 6dB Bandwidth Measurements SISO ANT2

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Plot 7-13. 6dB Bandwidth Plot SISO ANT2 (802.11b - Ch. 1)



Plot 7-14. 6dB Bandwidth Plot SISO ANT2 (802.11b - Ch. 6)

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Plot 7-15. 6dB Bandwidth Plot SISO ANT2 (802.11b - Ch. 11)



Plot 7-16. 6dB Bandwidth Plot SISO ANT2 (802.11g - Ch. 1)

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Plot 7-17. 6dB Bandwidth Plot SISO ANT2 (802.11g - Ch. 6)



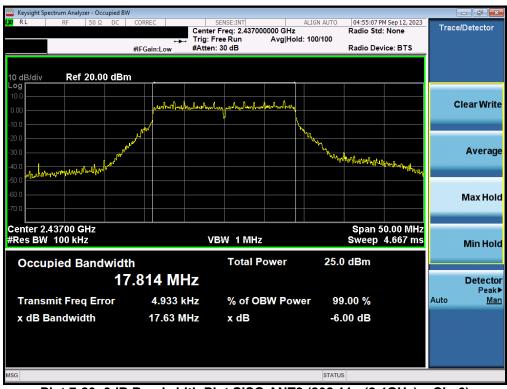
Plot 7-18. 6dB Bandwidth Plot SISO ANT2 (802.11g - Ch. 11)

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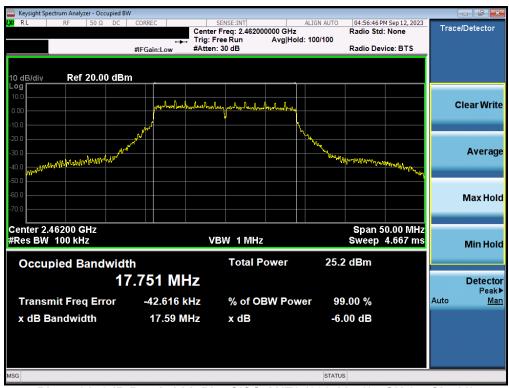
Plot 7-19. 6dB Bandwidth Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 1)



Plot 7-20. 6dB Bandwidth Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 6)

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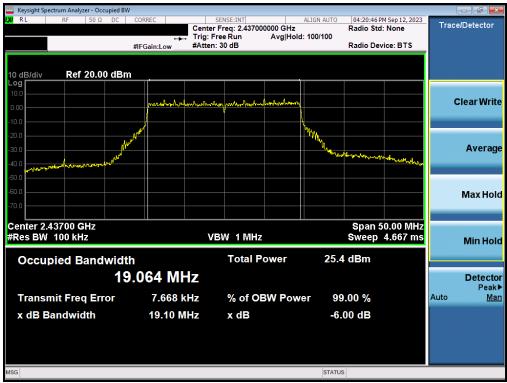
Plot 7-21. 6dB Bandwidth Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 11)



Plot 7-22. 6dB Bandwidth Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 1)

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Plot 7-23. 6dB Bandwidth Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 6)



Plot 7-24. 6dB Bandwidth Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 11)

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# 7.2.3 MIMO 6dB Bandwidth Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	b	7.13	8.03	0.500
2437	6	b	7.17	8.07	0.500
2462	11	b	7.13	7.17	0.500
2412	1	g	16.35	16.38	0.500
2437	6	g	16.39	16.38	0.500
2462	11	g	16.38	16.38	0.500
2412	1	n	17.24	17.62	0.500
2437	6	n	17.64	17.62	0.500
2462	11	n	17.65	17.60	0.500
2412	1	be	18.85	19.08	0.500
2437	6	be	19.01	19.05	0.500
2462	11	be	19.12	19.12	0.500

Table 7-6. Conducted 6dB Bandwidth Measurements MIMO

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-25. 6dB Bandwidth Plot MIMO ANT1 (802.11b - Ch. 1)



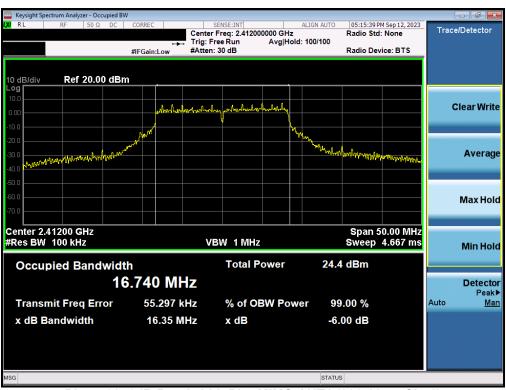
Plot 7-26. 6dB Bandwidth Plot MIMO ANT1 (802.11b - Ch. 6)

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-27. 6dB Bandwidth Plot MIMO ANT1 (802.11b - Ch. 11)



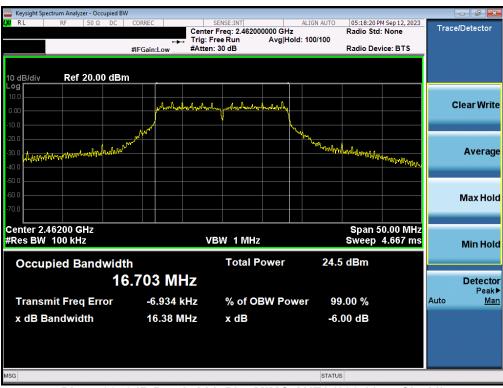
Plot 7-28. 6dB Bandwidth Plot MIMO ANT1 (802.11g - Ch. 1)

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-29. 6dB Bandwidth Plot MIMO ANT1 (802.11g - Ch. 6)



Plot 7-30. 6dB Bandwidth Plot MIMO ANT1 (802.11g - Ch. 11)

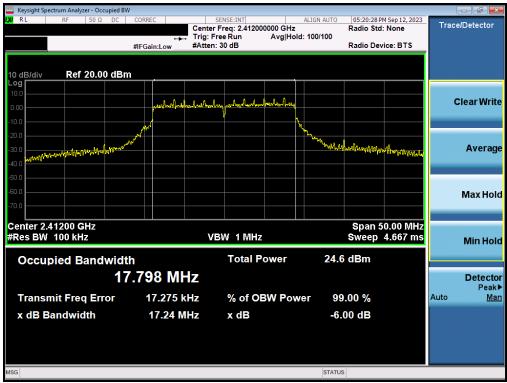
FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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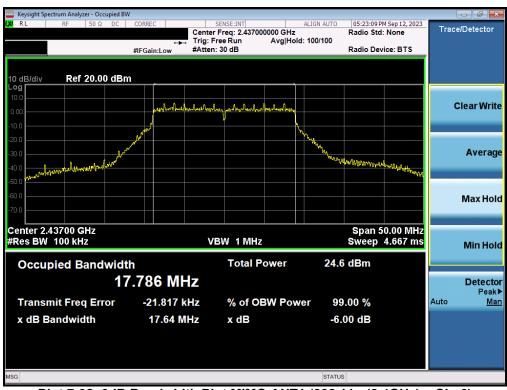
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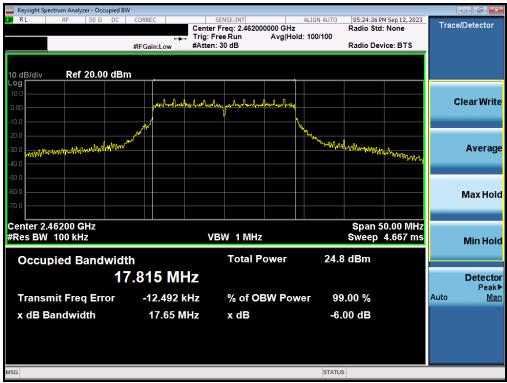
Plot 7-31. 6dB Bandwidth Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 1)



Plot 7-32. 6dB Bandwidth Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 6)

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Plot 7-33. 6dB Bandwidth Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 11)



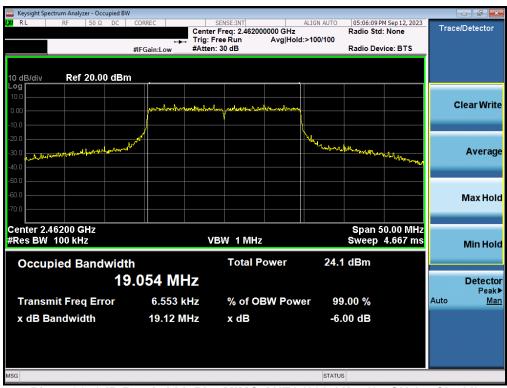
Plot 7-34. 6dB Bandwidth Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 1)

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Plot 7-35. 6dB Bandwidth Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 6)



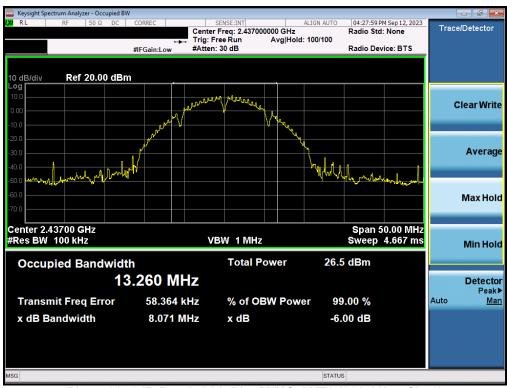
Plot 7-36. 6dB Bandwidth Plot MIMO ANT1 (802.11be (2.4GHz) – Ch. 11)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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Plot 7-37. 6dB Bandwidth Plot MIMO ANT2 (802.11b - Ch. 1)



Plot 7-38. 6dB Bandwidth Plot MIMO ANT2 (802.11b - Ch. 6)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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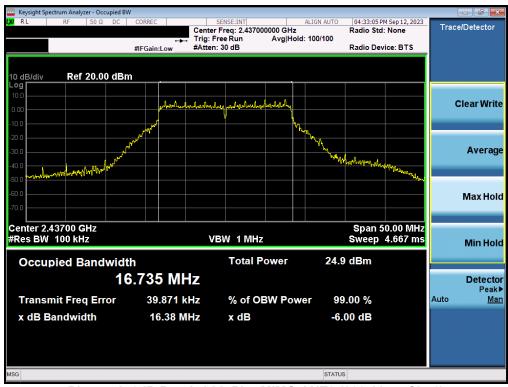
Plot 7-39. 6dB Bandwidth Plot MIMO ANT2 (802.11b - Ch. 11)



Plot 7-40. 6dB Bandwidth Plot MIMO ANT2 (802.11g - Ch. 1)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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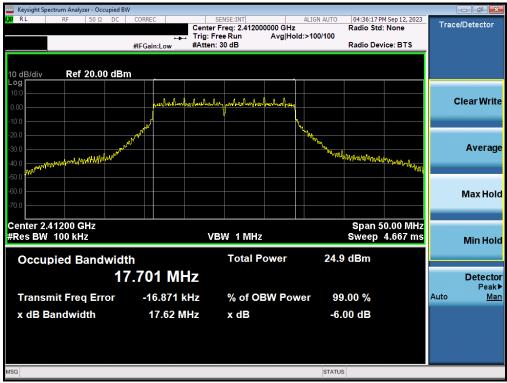
Plot 7-41. 6dB Bandwidth Plot MIMO ANT2 (802.11g - Ch. 6)



Plot 7-42. 6dB Bandwidth Plot MIMO ANT2 (802.11g - Ch. 11)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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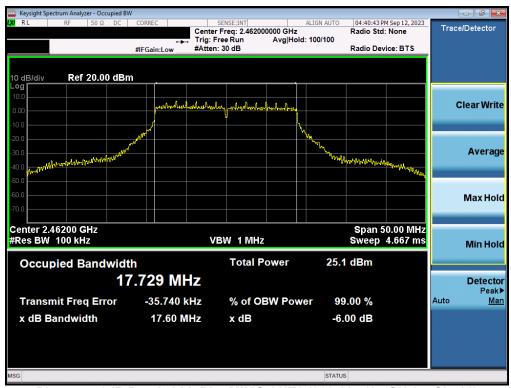
Plot 7-43. 6dB Bandwidth Plot MIMO ANT2 (802.11n (2.4GHz) - Ch. 1)



Plot 7-44. 6dB Bandwidth Plot MIMO ANT2 (802.11n (2.4GHz) - Ch. 6)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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Plot 7-45. 6dB Bandwidth Plot MIMO ANT2 (802.11n (2.4GHz) - Ch. 11)



Plot 7-46. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 1)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 42 of 137
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Plot 7-47. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 6)



Plot 7-48. 6dB Bandwidth Plot MIMO ANT2 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 42 of 127
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### 7.3 Output Power Measurement

### **Test Overview and Limits**

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt per 15.247 and RSS-247. The e.i.r.p. shall not exceed 4 W per RSS-247.

### **Test Procedure Used**

ANSI C63.10-2013 – Section 11.9.1.3 PKPM1 Peak Power Method ANSI C63.10-2013 – Section 11.9.2.3.2 Method AVGPM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

### **Test Settings**

### Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

### **Method AVGPM-G (Average Power Measurement)**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagrams below.



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

### **Test Notes**

None.

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	2.4011	MITT (20)	II 000 111 (	TICO (NITTI)						
.16	Freq. [MHz]	Channel	Hz 802.11b S Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
1	2412	1		17.70	30.00	-12.30	-1.05	16.65	36.02	-19.37
802.1	2437	6	İ	17.61	30.00	-12.39	-1.05	16.56	36.02	-19.46
$\sim$	2462	11	Average	17.80	30.00	-12.20	-1.05	16.75	36.02	-19.27
8(	2467	12		5.42	30.00	-24.58	-1.05	4.37	36.02	-31.65
(ד)	2472	13		-0.66	30.00	-30.66	-1.05	-1.71	36.02	-37.73
IEEE	2412	1	ļ	20.01	30.00	-9.99	-1.05	18.96	36.02	-17.06
뜻	2437	6		21.22	30.00	-8.78	-1.05	20.17	36.02	-15.85
	2462 2467	11	Peak	22.00 7.99	30.00 30.00	-8.00	-1.05	20.95	36.02	-15.07
	2472	12	ł	3.21	30.00	-22.01 -26.79	-1.05 -1.05	6.94 2.16	36.02 36.02	-29.08 -33.86
			Hz 802.11g S				-1.05	2.10	30.02	-55.00
1 g	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
802.1	2412	1		17.79	30.00	-12.21	-1.05	16.74	36.02	-19.28
2	2437	6	ļ	17.66	30.00	-12.34	-1.05	16.61	36.02	-19.41
0	2462	11	Average	17.84	30.00	-12.16	-1.05	16.79	36.02	-19.23
$\infty$	2467	12	ļ	5.22	30.00	-24.78	-1.05	4.17	36.02	-31.85
IEEE	2472	13	ļ	-0.23	30.00	-30.23	-1.05	-1.28	36.02	-37.30
m	2412 2437	6	ł	24.22 24.14	30.00 30.00	-5.78 -5.86	-1.05 -1.05	23.17 23.09	36.02 36.02	-12.85 -12.93
ſΤÌ	2462	11	Peak	24.14	30.00	-5.63	-1.05	23.32	36.02	-12.93
	2462	12	гсак	12.11	30.00	-5.63	-1.05	11.06	36.02	-12.70
	2472	13	t	7.01	30.00	-22.99	-1.05	5.96	36.02	-30.06
			Hz 802.11n S				-1.05	5.90	50.02	-50.00
1n	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
	2412	1		17.88	30.00	-12.12	-1.05	16.83	36.02	-19.19
802.1	2412	6	ł	17.73	30.00	-12.12	-1.05	16.68	36.02	-19.19
) 2	2462	11	Average	17.86	30.00	-12.14	-1.05	16.81	36.02	-19.21
0;	2467	12	Awerage	5.66	30.00	-24.34	-1.05	4.61	36.02	-31.41
$\infty$	2472	13	İ	-0.33	30.00	-30.33	-1.05	-1.38	36.02	-37.40
IEEE	2412	1		24.62	30.00	-5.38	-1.05	23.57	36.02	-12.45
田	2437	6	1	24.32	30.00	-5.68	-1.05	23.27	36.02	-12.75
田	2462	11	Peak	24.88	30.00	-5.12	-1.05	23.83	36.02	-12.19
I	2467	12		12.54	30.00	-17.46	-1.05	11.49	36.02	-24.53
	2472	13		6.89	30.00	-23.11	-1.05	5.84	36.02	-30.18
45	2.4GHz	WIFI (20MF	Iz 802.11ac	SISO ANT1)	Conducted	Conducted	Aut Cain	Manadan		M
ac	Freq.	Channel	Detector	Conducted	Power Limit	Power Margin	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
1 a	[MHz]	Channel	Detector	Power [dBm]	[dBm]	[dB]	[dBi]	[dBm]	[dBm]	[dB]
					[ubiii]					
	2412	1					-1.05	16.35	36.02	-19.68
.1	2412	1		17.40	30.00	-12.61	-1.05 -1.05	16.35	36.02 36.02	-19.68 -19.97
2.1	2437	6	Average	17.40 17.10	30.00 30.00	-12.61 -12.90	-1.05	16.05	36.02	-19.97
02.1		_	Average	17.40	30.00	-12.61				
802.1	2437 2462	6	Average	17.40 17.10 17.21	30.00 30.00 30.00	-12.61 -12.90 -12.80	-1.05 -1.05	16.05 16.16	36.02 36.02	-19.97 -19.87
802.1	2437 2462 2467 2472 2412	6 11 12	Average	17.40 17.10 17.21 5.72 -0.22 24.14	30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86	-1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09	36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93
802.1	2437 2462 2467 2472 2412 2437	6 11 12 13 1 6		17.40 17.10 17.21 5.72 -0.22 24.14 23.76	30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71	36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31
802.1	2437 2462 2467 2472 2412 2437 2462	11 12 13 1 6	Average Peak	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89	36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13
EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467	11 12 13 1 6 11 12		17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06
802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472	6 11 12 13 1 6 11 12 13	Peak	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89	36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13
IEEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472	6 11 12 13 1 6 11 12 13		17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87
lax   IEEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz]	6 11 12 13 1 6 11 12 13 WIFI (20MF	Peak	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -2.80 Conducted Power Margin [dB]	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15 Max e.i.r.p [dBm]	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 c.i.r.p Limit [dBm]	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87 e.i.r.p Margin [dB]
lax   IEEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz]	6 11 12 13 1 6 11 12 13 WIFI (20MH	Peak Hz 802.11ax	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANTI) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15 Max e.ir.p [dBm]	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87 e.ir.p Margin [dB]
lax   IEEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz] 2412 2437	6 11 12 13 1 6 11 12 13 WIFI (20MI	Peak  Iz 802.11ax  Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15 Max e.i.r.p [dBm] 14.90 16.80	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dBm] 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -33.13 -25.06 -29.87 e.ir.p Margin [dB] -21.12 -19.22
lax   IEEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462	6 11 12 13 1 6 11 12 13 WIFI (20MF Channel	Peak Hz 802.11ax	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14	-1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15 Max e.ir.p [dBm] 14.90 16.80 14.81	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p Limit [dBm]	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  c.i.r.p Margin [dB] -21.12 -19.22 -21.21
lax   IEEE 802.1	2437 2462 2467 2472 2412 2437 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2467	6 11 12 13 1 6 11 12 13 WIFI (20MI Channel	Peak  Iz 802.11ax  Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87 e.i.r.p Margin [dB] -21.12 -19.22 -19.22 -21.21 -31.65
802.11ax   IEEE 802.1 SU	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz [MHz] 2412 2437 2462 2467 2472	6 11 12 13 1 1 6 11 12 13 WIFI (20MF Channel	Peak  Iz 802.11ax  Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -12.15 -14.14 -24.58 -30.65	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -33.13 -25.06 -29.87 e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72
E 802.11ax SU	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 WIFI (20MF  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  Iz 802.11ax  Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.p. [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  c.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90
E 802.11ax SU	2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2412 2412 2437	6 11 12 13 1 6 6 11 12 12 13 WIFI (20MI Channel 1 6 11 12 13 13 14 15 12 13 14 11 12 13 14 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Peak  12 802.11ax  Detector  Average	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -30.22 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42	-1.05 -1.05	16.05 16.16 4.67 -1.27 -1.27 22.89 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 6.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.49
802.11ax   IEEE 802.1 SU	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 WIFI (20MF  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  Iz 802.11ax  Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.p. [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  c.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90
E 802.11ax SU	2437 2462 2467 2472 2412 2437 2462 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2472 2412 2412 242 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2472 2472 2472 2472 2472 247	6 11 12 13 1 6 11 12 13 WIFI (20MI  Channel  1 6 11 12 13 1 1 6 11 11 12 13 1 1 1 13 1 1 1 1 1 1 1 1 1	Peak  Detector  Average  Peak	17.40 17.10 17.11 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -14.18 -30.65 -7.83 -5.42 -7.69	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -33.13 -25.06 -29.87 e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -14.76
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2472 2412 2412 242 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2472 2472 2472 2472 2472 247	6 11 12 13 1 6 11 12 13 WIFI (20MI  Channel  1 6 11 12 13 1 1 6 11 11 12 13 1 1 1 13 1 1 1 1 1 1 1 1 1	Peak  Detector  Average  Peak	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 21.53 21.26 11.25 5.47	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.49 -14.76 -24.77 -30.55
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2472 2412 2412 242 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2472 2472 2472 2472 2472 247	6 11 12 13 1 6 11 12 13 WIFI (20MI  Channel  1 6 11 12 13 1 1 6 11 11 12 13 1 1 1 13 1 1 1 1 1 1 1 1 1	Peak  Detector  Average  Peak	17.40 17.10 17.11 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -7.70	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.ir.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  c.i.r.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.49 -12.49 -14.76 -24.77
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472 2472 2472 2472 247	6 11 12 13 1 6 11 12 13 1 6 11 12 13 WIFI (20MI	Peak  Iz 802.11ax  Detector  Average  Peak  Iz 802.11be	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -7.69 -17.70 -23.48  Conducted Power Margin	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.ir.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p	36.02 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  c.i.r.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.49 -14.76 -24.77 -30.55 c.i.r.p Margin
EEE 802.11ax   EEE 802.1	2437 2462 2472 2412 2437 2462 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2447 2412 2412 2417 2412 2417 2412 2417 2418 2418 2417 2418 2418 2418 2418 2418 2418 2418 2418	6 11 12 13 1 16 6 11 12 13 WIFI (20MI  Channel  1 6 11 12 13 WIFI (20MI  Channel  1 1 12 13 11 12 13 WIFI (20MI  Channel	Peak  Iz 802.11ax  Detector  Average  Peak  Iz 802.11be	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm]	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm]	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48  Conducted Power Margin [dB]	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.ir.p [dBm] 14.90 14.81 4.37 -1.70 21.12 21.12 5.47  Max e.ir.p [dBm]	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 6.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87 e.ir.p Margin [dB] -19.22 -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.47 -30.55 e.ir.p Margin [dB]
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2412 2437 2462 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2472 2472 2467 2472 2472 2472 247	6 11 12 13 1 6 11 12 13 WIFI (20ME  Channel  1 6 11 12 13 WIFI (20ME  1 1 12 13 11 12 13 WIFI (20ME  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  Iz 802.11ax  Detector  Average  Peak  Iz 802.11be	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.66	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48 Conducted Power Margin [dB] -14.34	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.ir.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p [dBm]	36.02 36.02	-19.97 -19.87 -31.35 -37.29 -13.31 -13.31 -13.13 -25.96 -29.87  e.i.r.p Margin [dB] -21.12 -19.22 -19.22 -14.90 -12.49 -14.76 -24.77 -30.55  e.i.r.p Margin [dB]
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2472 2412 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467	6 11 12 13 1 6 11 12 13 WIFI (20MI) Channel  1 6 11 12 13 WIFI (20MI) 13 11 12 13 WIFI (20MI) 15 16 11 16 11 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Peak Detector Average Peak tz 802.11be Detector	17.40 17.10 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.22 18.3.76 18.3.94 12.01 17.20 18.50 ANT1) 18.95 17.85 15.86 15.86 15.86 15.86 15.86 17.95 15.66 17.95 15.86 15.66	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48 Conducted Power Margin [dB] -14.34 -12.05 -14.14 -12.05 -14.14	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p [dBm]	36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.i.r.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.76 -24.77 -30.55  e.i.r.p Margin [dB]
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2411 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2424 5 2462 2467 2472 2412 2424 2422 2467 2472 2412 2424 2422 2467 2472 2412 2427 2422 2437 2462 2447 2442 2447 2447 2447	6 11 12 13 1 16 6 11 12 13 WIFI (20MI  Channel  1 6 11 12 13 WIFI (20MI  Channel  1 1 6 11 12 13 WIFI (20MI  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak Detector Average Peak tz 802.11be Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.66 17.95 15.88 5.48 5.66 17.95 15.88	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48  Conducted Power Margin [dB] -14.34 -12.05 -14.12 -24.34 -30.28	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p [dBm]	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dbm] 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.i.r.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -14.76 -24.77 -30.55  e.i.r.p Margin [dB] -19.12 -21.19 -21.19 -21.19 -31.41 -19.12 -21.19 -31.41 -37.35
EEE 802.11ax   EEE 802.1	2437 2462 2472 2412 2437 2462 2467 2472 2418 Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2412 2437 2462 2467 2472 2412 2412 2412 2412 2412 2412 241	6 11 12 13 1 16 6 11 12 13 WIFI (20MI  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak Detector Average Peak tz 802.11be Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.66 17.95 15.86	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48 Conducted Power Margin [dB] -14.34 -12.05 -14.14 -12.05 -14.14 -12.05 -14.14 -14.34 -12.05 -14.12 -24.34 -30.28 -7.18	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.ir.p [dBm] 14.90 14.81 4.37 -1.70 21.12 21.12 5.47  Max e.ir.p [dBm] 14.61 16.90 14.83 4.61 1.33 21.77	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dBm] 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.47 -30.55 e.ir.p Margin [dB] -21.41 -19.12 -21.19 -31.41 -37.35 -44.25
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2472 2417 2467 2472 2418 2497 2467 2472 2418 2497 2472 2412 2437 2462 2472 2412 2437	6 11 12 13 1 6 11 12 13 WIFI (20MI) Channel  1 6 11 12 13 WIFI (20MI) 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 14 15 16 11 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Peak  iz 802.11ax  Detector  Average  Peak  iz 802.11be  Detector  Average	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.95 6.52 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.66 -0.28 22.82 22.82	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48 Conducted Power Margin [dB] -14.05 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48 Conducted -7.18 -14.14 -12.05 -14.12 -24.34 -12.05 -14.12 -24.34 -30.28 -7.18	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p [dBm] 14.61 16.90 14.83 4.61 -1.33 21.77 24.13	36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -12.49 -14.76 -24.77 -30.55  e.ir.p Margin [dB] -21.41 -19.12 -21.19 -31.41 -37.35 -44.25 -11.89
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2462 2467 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2437 2462 2467	6 11 12 13 1 16 6 11 12 13 WIFI (20MI  Channel  1 6 11 12 13 WIFI (20MI  Channel  1 1 6 11 12 13 WIFI (20MI  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak Detector Average Peak tz 802.11be Detector	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.66 17.95 15.88 5.66 -0.28 22.82 22.82 22.82 22.81	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48  Conducted Power Margin [dB] -14.34 -12.05 -14.12 -24.34 -30.28 -7.18	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p [dBm] 14.61 16.90 14.83 4.61 -1.33 21.77 24.13 21.48	36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 e.i.r.p.Limit [dbm] 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -14.76 -24.77 -30.55 -14.76 -24.77 -30.55 -37.72 -30.55 -37.72 -30.55 -37.72 -30.55 -37.72 -30.55 -30
11be   IEEE 802.11ax   IEEE 802.1	2437 2462 2467 2472 2412 2437 2467 2472 2,4GHz Freq. (MHz) 2412 2437 2462 2467 2472 2,4GHz Freq. (MHz) 2412 2437 2462 2467 2472 2,4GHz 2472 2,4GHz 2472 2,4GHz 2437 2462 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467 2472 2467	6 11 12 13 1 16 6 11 12 13 11 12 13 WIFI (20MF  Channel  1 12 13 11 12 13 WIFI (20MF  Channel  1 12 13 11 12 13 11 12 13 11 14 15 11 12 13 11 14 15 16 11 11 12 13 11 16 11 11 12 13 11 16 11 12 13 11 16 11 11 12 13 11 16 11 11 12 13 11 16 11 11 12 13 11 16 11 11 12 13 11 14 15 16 11 11 12 13 11 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Peak  iz 802.11ax  Detector  Average  Peak  iz 802.11be  Detector  Average	17.40 17.10 17.21 5.72 -0.22 24.14 23.76 23.94 12.01 7.20 SISO ANT1) Conducted Power [dBm] 15.95 17.85 15.86 5.42 -0.65 22.17 24.58 22.31 12.30 6.52 SISO ANT1) Conducted Power [dBm] 15.66 17.95 15.88 5.66 -0.28 22.53	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80 Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48 Conducted Power Margin [dB] -14.34 -12.05 -14.14 -24.34 -12.05 -14.12 -24.34 -30.28 -7.18 -7.18	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.ir.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.ir.p [dBm] 14.61 16.90 14.83 4.61 -1.33 21.77 24.13 21.48	36.02 36.02	-19.97 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.i.r.p Margin [dB] -21.12 -19.22 -19.22 -11.23 -14.90 -12.49 -14.76 -24.77 -30.55  e.i.r.p Margin [dB] -21.11 -21.12 -21.13 -31.41 -37.35 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.32 -37.33 -37.35 -37.32 -37.35 -3
EEE 802.11ax   EEE 802.1	2437 2462 2467 2472 2412 2437 2466 2472 2,4GHz Freq. [MHz] 2412 2437 2462 2472 2411 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2417 2418 2418 2419 2419 2419 2419 2419 2419 2419 2419	6 11 12 13 1 6 11 12 13 WIFI (20MH Channel  1 6 11 12 13 WIFI (20MH 12 13 11 12 13 WIFI (20MH 12 13 11 12 13 11 12 13 11 12 13 11 11 12 13 11 16 11 12 13 11 16 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 11 11 12 13 13 11 11 12 13 11 11 12 13 13 11 11 12 13 13 11 14 15 16 11 11 12 13 13 11 14 15 16 11 11 12 13 13 11 11 12 13 13 11 14 15 16 11 11 12 13 13 14 16 11 11 12 13 13 14 16 11 11 12 13 13 14 16 11 11 12 13 13 14 16 11 11 12 13 13 14 16 11 11 12 13 13 14 16 11 11 12 13 13 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Peak  iz 802.11ax  Detector  Average  Peak  iz 802.11be  Detector  Average	17.40 17.10 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.21 17.20 17.20 23.94 12.01 17.20 23.94 12.01 20.01	30.00 30.00	-12.61 -12.90 -12.80 -24.28 -30.22 -5.86 -6.24 -6.06 -17.99 -22.80  Conducted Power Margin [dB] -14.05 -12.15 -14.14 -24.58 -30.65 -7.83 -5.42 -7.69 -17.70 -23.48  Conducted Power Margin [dB] -14.34 -12.05 -14.12 -24.34 -30.28 -7.18	-1.05 -1.05	16.05 16.16 4.67 -1.27 23.09 22.71 22.89 10.96 6.15  Max e.i.r.p [dBm] 14.90 16.80 14.81 4.37 -1.70 21.12 23.53 21.26 11.25 5.47  Max e.i.r.p [dBm]  14.61 16.90 14.83 4.61 -1.33 21.48 11.61 5.47	36.02 36.02	-19.97 -19.87 -19.87 -31.35 -37.29 -12.93 -13.31 -13.13 -25.06 -29.87  e.ir.p Margin [dB] -21.12 -19.22 -21.21 -31.65 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -37.72 -14.90 -14.76 -24.77 -30.55 -14.76 -24.77 -30.55 -14.76 -24.77 -30.55 -37.72 -30.55 -37.72 -30.55 -37.72 -30.55 -37.72 -30.55 -30

Table 7-7. Conducted Output Power Measurements SISO ANT1

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 45 of 137
1M2312110124-06.A3L	9/6/2023 - 11/06/2023	Portable Handset	raye 40 01 137



	2.4011	- WIEL (20M	Hz 802.11b S	TICO ANITO						
	2.4GH	Z WIFI (201VI	HZ 802.110 S		Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
þ	Freq.	Channel	Detector	Conducted	Power Limit	Power Margin	[dBi]	[dBm]	[dBm]	[dB]
1	[MHz]	Chamiei	Detector	Power [dBm]	[dBm]	[dB]	[dDi]	[dDill]	[dbiii]	[db]
802.1	2412	1		17.68	30.00	-12.32	-3.52	14.16	36.02	-21.86
<u> </u>	2437	6	t	17.83	30.00	-12.17	-3.52	14.31	36.02	-21.71
$\sim$	2462	11	Average	17.99	30.00	-12.01	-3.52	14.47	36.02	-21.55
000	2467	12	Themge	5.42	30.00	-24.58	-3.52	1.90	36.02	-34.12
$\infty$	2472	13	t	-0.52	30.00	-30.52	-3.52	-4.04	36.02	-40.06
<u> </u>	2412	1		19.68	30.00	-10.32	-3.52	16.16	36.02	-19.86
	2437	6	t	19.81	30.00	-10.19	-3.52	16.29	36.02	-19.73
(Li)	2462	11	Peak	19.98	30.00	-10.02	-3.52	16.46	36.02	-19.56
	2467	12	reak	7.55	30.00	-22.45	-3.52	4.03	36.02	-31.99
	2472	13	•	1.89	30.00	-28.11	-3.52	-1.63	36.02	-37.65
			Hz 802.11g S				-5.52	-1.03	30.02	-57.05
	2.4011.	Z WII 1 (20WI	112 002.11g t		Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
80	Freq.	Channel	Detector	Conducted	Power Limit	Power Margin	[dBi]	[dBm]	[dBm]	[dB]
1	[MHz]	Channer	Detector	Power [dBm]	[dBm]	[dB]	[dDi]	[dDill]	[dbiii]	[db]
1	2412	1		17.68	30.00	-12.32	-3.52	14.16	36.02	-21.86
802.1	2437	6		17.21	30.00	-12.79	-3.52	13.69	36.02	-22.33
7	2462	11	Average	17.46	30.00	-12.54	-3.52	13.94	36.02	-22.08
0	2467	12	Attenage	5.63	30.00	-24.37	-3.52	2.11	36.02	-33.91
$\infty$	2472	13		-0.22	30.00	-30.22	-3.52	-3.74	36.02	-39.76
IBBE	2472	13		23.98	30.00	-6.03	-3.52	20.46	36.02	-15.57
Ή	2412	6	t	23.65	30.00	-6.35	-3.52	20.46	36.02	-15.89
ſτì	2462	11	Peak	23.67	30.00	-6.33	-3.52	20.15	36.02	-15.87
	2467	12	1 can	11.78	30.00	-18.22	-3.52	8.26	36.02	-27.76
	2472	13	İ	5.68	30.00	-24.32	-3.52	2.16	36.02	-33.86
			Hz 802.11n S				-5.52	2.10	30.02	-55.00
		2 WILL (201VI	112 002.11fl S		Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
n	Freq.	Channel	Detector	Conducted	Power Limit	Power Margin	[dBi]	[dBm]	[dBm]	[dB]
$\vdash$	[MHz]	Channel	Lictor	Power [dBm]	[dBm]	[dB]	[uBi]	[ubiii]	[ubii1]	[ub]
1	2412	1		17.32	30.00	-12.68	-3.52	13.80	36.02	-22.22
802.1	2412	6	1	17.12	30.00	-12.88	-3.52	13.60	36.02	-22.42
2		11	Avara	17.12	30.00				36.02	-22.42
0	2462 2467		Average		30.00	-12.63	-3.52	13.86	36.02	-22.17
8	2467	12		5.63 -0.33	30.00	-24.37 -30.33	-3.52			-33.91
IEEE		13		23.98		-6.02	-3.52	-3.85 20.46	36.02	
Π	2412 2437	1	+	23.82	30.00 30.00		-3.52	20.46	36.02 36.02	-15.56
F)	2462	6	D 1	23.90		-6.18	-3.52	20.38	36.02	-15.72 -15.65
	2462	11 12	Peak		30.00 30.00	-6.11 -18.44	-3.52	8.04	36.02	
	2472			11.56			-3.52			-27.98 -33.12
		13	1 002 11	6.42	30.00	-23.58	-3.52	2.90	36.02	-33.12
	2.4GHz	WIFI (20MI	1Z 802.11ac	SISO ANT2)	Conducted	Conducted	Ant. Gain	Max e.i.r.p	a i v n I imit	a i r n Margin
ac	Freq.	Channal	Detector	Conducted	Power Limit	Power Margin			e.i.r.p Limit	e.i.r.p Margin
	[MHz]	Channel	Detector	Power [dBm]	[dBm]	[dB]	[dBi]	[dBm]	[dBm]	[dB]
802.11.	2412	1		17.17	30.00	-12.83	2.52	12.65	26.02	-22.37
. 1	2412	1		17.09		-12.83	-3.52	13.65	36.02 36.02	-22.45
2	2462	6 11	A	17.19	30.00 30.00	-12.91	-3.52 -3.52	13.57 13.67	36.02	-22.45
). (C	2467	12	Average	5.33	30.00	-24.67	-3.52	1.81	36.02	-34.21
8(	2472	13	ł	-0.66	30.00	-30.66	-3.52	-4.18	36.02	-40.20
2	2412	13		23.89	30.00	-6.11	-3.52	20.37	36.02	-15.65
)E	2412	6	ł	23.70	30.00	-6.30	-3.52	20.18	36.02	-15.84
IEEE	2462	11	Peak	23.88	30.00	-6.12	-3.52	20.18	36.02	-15.66
	2462	12	1 Cak	11.42	30.00	-18.58	-3.52	7.90	36.02	-28.12
	2467	13	1	6.25	30.00	-18.58	-3.52 -3.52	2.73	36.02	-28.12
			Iz 802.11ax				-3.32	2./3	30.02	-33.29
<b>√</b>		, 11 1 (201VII	12. 002.11dX		Conducted	Conducted	Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
3.7	Freq.	Channel	Detector	Conducted	Power Limit	Power Margin	[dBi]	[dBm]	[dBm]	[dB]
	[MHz]	Chamici	Licetor	Power [dBm]	[dBm]	[dB]	[uDi]	լաույ	լաոույ	լսոյ
	2412	1		15.28	30.00	-14.73	-3.52	11.76	36.02	-24.27
2.11ax U	2412	6	ł	17.57	30.00	-14./3	-3.52	14.05	36.02	-24.27
7	2462	11	Average		30.00	-12.43	-3.52	11.84	36.02	-21.97
	2462	12	Average	15.36 5.66	30.00	-24.34	-3.52	2.14	36.02	-24.18
80 S	2472	13	ł	-0.22	30.00	-30.22	-3.52	-3.74	36.02	-39.76
[7]	2412	1		22.45	30.00	-7.55	-3.52	18.93	36.02	-17.09
	2412	6	ŧ	24.60	30.00	-5.40	-3.52	21.08	36.02	-14.94
<u> </u>		11	Peak	22.52	30.00	-7.48	-3.52	19.00	36.02	-14.94
<u> </u>	2462		1 Cak		30.00	-18.99	-3.52	7.49	36.02	-28.53
	2462			1101						
IEEE	2467	12	1	11.01 5.98						-33.56
	2467 2472	12 13	Tz 802 11ha	5.98	30.00	-24.02	-3.52	2.46	36.02	-33.56
	2467 2472 2.4GHz	12 13	Hz 802.11be	5.98 SISO ANT2)	30.00 Conducted	-24.02 Conducted	-3.52	2.46	36.02	
	2467 2472 2.4GHz Freq.	12 13 WIFI (20MI		5.98 SISO ANT2) Conducted	30.00 Conducted Power Limit	-24.02	-3.52 Ant. Gain	2.46 Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
	2467 2472 2.4GHz	12 13	Hz 802.11be	5.98 SISO ANT2)	30.00 Conducted	-24.02 Conducted	-3.52	2.46	36.02	
	2467 2472 2.4GHz Freq. [MHz]	12 13 WIFI (20MI Channel		5.98 SISO ANT2) Conducted Power [dBm]	30.00  Conducted Power Limit [dBm]	-24.02 Conducted Power Margin [dB]	-3.52 Ant. Gain [dBi]	2.46 Max e.i.r.p [dBm]	36.02 e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
	2467 2472 2.4GHz Freq. [MHz] 2412	12 13 WIFI (20MI Channel		5.98 SISO ANT2) Conducted Power [dBm] 15.78	30.00 Conducted Power Limit [dBm] 30.00	-24.02 Conducted Power Margin [dB] -14.22	-3.52 Ant. Gain [dBi]	2.46  Max e.i.r.p [dBm]  12.26	36.02 e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
	2467 2472 2.4GHz Freq. [MHz] 2412 2437	12 13 WIFI (20MI Channel	Detector	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64	30.00  Conducted Power Limit [dBm] 30.00 30.00	-24.02  Conducted Power Margin [dB] -14.22 -12.36	-3.52 Ant. Gain [dBi] -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26 14.12	36.02 e.i.r.p Limit [dBm] 36.02 36.02	e.i.r.p Margin [dB] -23.76 -21.90
	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462	12 13 WIFI (20MF Channel 1 6		5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96	30.00  Conducted Power Limit [dBm]  30.00  30.00  30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04	-3.52 Ant. Gain [dBi] -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26 14.12 12.44	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02	e.i.r.p Margin [dB] -23.76 -21.90 -23.58
	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467	12 13 WIFI (20MI Channel 1 6 11	Detector	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96 4.89	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04 -25.11	-3.52  Ant. Gain [dBi]  -3.52 -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26 14.12 12.44 1.37	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02	e.i.r.p Margin [dB] -23.76 -21.90 -23.58 -34.65
	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472	12 13 WIFI (20MF Channel 1 6 11 12 13	Detector	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96 4.89 -0.10	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04 -25.11 -30.10	-3.52  Ant. Gain [dBi]  -3.52 -3.52 -3.52 -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26 14.12 12.44 1.37 -3.62	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02	e.i.r.p Margin [dB] -23.76 -21.90 -23.58 -34.65 -39.64
	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412	12 13 WIFI (20MF Channel 1 6 11 12 13	Detector	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96 4.89 -0.10 22.84	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04 -25.11 -30.10 -7.16	-3.52  Ant. Gain [dBi]  -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26 14.12 12.44 1.37 -3.62 19.32	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02	e.i.r.p Margin [dB]  -23.76 -21.90 -23.58 -34.65 -39.64 -16.70
	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437	12 13 WIFI (20MF Channel 1 6 11 12 13 1 6	Detector  Average	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96 4.89 -0.10 22.84 24.44	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04 -25.11 -30.10 -7.16 -5.56	-3.52  Ant. Gain [dBi]  -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26  14.12  12.44  1.37  -3.62  19.32  20.92	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02	e.i.r.p Margin [dB]  -23.76  -21.90  -23.58  -34.65  -39.64  -16.70  -15.10
	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437 2462	12 13 WIFI (20MI Channel 1 6 11 12 13 1 6	Detector	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96 4.89 -0.10 22.84 24.44 22.63	30.00  Conducted Power Limit [dBm] [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04 -25.11 -30.10 -7.16 -5.56 -7.37	-3.52  Ant. Gain [dBi]  -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26 14.12 12.44 1.37 -3.62 19.32 20.92 19.11	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	e.i.r.p Margin [dB]  -23.76 -21.90 -23.58 -34.65 -39.64 -16.70 -15.10 -16.91
.11be	2467 2472 2.4GHz Freq. [MHz] 2412 2437 2462 2467 2472 2412 2437	12 13 WIFI (20MF Channel 1 6 11 12 13 1 6	Detector  Average	5.98 SISO ANT2) Conducted Power [dBm] 15.78 17.64 15.96 4.89 -0.10 22.84 24.44	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-24.02 Conducted Power Margin [dB] -14.22 -12.36 -14.04 -25.11 -30.10 -7.16 -5.56	-3.52  Ant. Gain [dBi]  -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52 -3.52	2.46  Max e.i.r.p [dBm]  12.26  14.12  12.44  1.37  -3.62  19.32  20.92	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02	e.i.r.p Margin [dB]  -23.76  -21.90  -23.58  -34.65  -39.64  -16.70  -15.10

Table 7-8. Conducted Output Power Measurements SISO ANT2

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 46 of 137
1M2312110124-06.A3L	9/6/2023 - 11/06/2023	Portable Handset	raye 40 01 137



Prog Date   Channel   Director   Combined Prover (Birth)   Prover Limit   Prove				2 4GHz WIE	EL (20MHz 802 11	h MIMO)							
Tree	_			Z.+GIIZ WII			D 1				Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
TOO   State	Freq [MHz]	Channel	Detector			-		_					
Company   Comp										= =			
Company   Comp			1										
Company   Comp	2			A									
Company   Comp	0			Average									
The content of the													
200   100	田		13										
200   100	面		6										
200   100				Peak									
Prog   Mile   Channel   Device   Conducted Program   Conducted Prog   Co		2467	12		8.99	8.64	11.83	30.00	-18.17	0.81	12.64	36.02	-23.38
The contract   Contract   Procedure   Contract   Procedure   Procedure   Contract   Procedure   Proc		2472	13				5.68	30.00	-24.32	0.81	6.49	36.02	-29.53
Prec   Male   Channel   Delector   Conducted Power   Hard     Power   Lange   Hard				2.4GHz WIF	I (20MHz 802.11	g MIMO)		Conducted	Conducted	Directional Ant.			
Trop   Columb   Col	മ			<b>.</b>	Cor	nducted Power [d	Bm1						
The color of the	<del>-</del>	Freq [MHZ]	Channel	Detector				[dBm]		[dBi]	[dBm]	[dBm]	[aB]
The color of the		2412	1					30.00	-9.33	0.81	21.48	36.02	-14 54
Part   Part	$\sim$ i		6										
Part   Part	)2			Average									
Part   Part	<u> </u>	2467	12	Ü	5.66	5.44	8.56	30.00	-21.44	0.81	9.37	36.02	-26.65
Perc   Perc			13										
Perc   Perc			_										
Perc   Perc	<u> </u>												
Perc   Perc				Peak									
Proc   Disc													
Percent   Perc		24/2	1.5	2 AGH- WAT			2.68				3.49	30.02	-52.55
Prog   Milz   Channel   Director   Conducted Fower (pllm)   Power Limit   [68]   [68				2.4GHZ WIF							Max e.i.r.n	e.i.r.p Limit	e.i.r.p Margin
ANTI   ANTI	п	Freg [MHz]	Channel	Detector	Cor	nducted Power [d	Bm]		Ü				
178   17.42   20.63   30.00   -9.37   0.81   21.44   30.02   -1.458   30	<del></del>	[			ANT1	ANT2	MJMO	[dBm]	[dB]	[dBi]	[]	[23.11]	[25]
Conducted Power [dith]		2412	1					30.00	-9.37	0.81	21,44	36.02	-14.58
Conducted Power [dith]	2	2437	6		17.75	17.62	20.70	30.00	-9.30	0.81	21.51	36.02	-14.51
Conducted Power [dith]	0,			Average									
Conducted Power [dith]	$\widetilde{\infty}$												
The conducted Power (Blm)	וד)		13										
The conducted Power (Blm)	高		1										
The conducted Power (Blm)	高			D I.									
Conducted   Conducted   Power Limit   Conducted   Power Limit   Conducted   Power Margin   Conducted	$\equiv$			Peak									
Preq   Milk   Channel   Detector   Conducted Power   Bilm   Power Lank			12		11.24								
Program   Prog		2472	13		6.11								
Conducted   Cond		2472	13	2.4GHz WIF		6.45		30.00	-20.71	0.81			
Conducted   Cond	ပ	2472	13	2.4GHz WIF	I (20MHz 802.11	6.45 ac MIMO)	9.29	30.00 Conducted	-20.71 Conducted	0.81 Directional Ant.	10.11	36.02	
The late   The late	ac				I (20MHz 802.11	6.45 ac MIMO)	9.29	30.00  Conducted Power Limit	-20.71 Conducted Power Margin	0.81 Directional Ant. Gain	10.11 Max e.i.r.p	36.02 e.i.r.p Limit	-25.91 e.i.r.p Margin
## 1		Freq [MHz]			Con ANT1	6.45 ac MIMO) nducted Power [d	9.29 Bm] MIMO	30.00  Conducted Power Limit	-20.71  Conducted Power Margin [dB]	0.81 Directional Ant. Gain [dBi]	Max e.i.r.p [dBm]	36.02 e.i.r.p Limit [dBm]	-25.91 e.i.r.p Margin [dB]
## 1		Freq [MHz]	Channel		Con ANT1 17.81	6.45 ac MIMO) nducted Power [d ANT2 17.41	9.29 Bm] MIMO 20.63	30.00  Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37	0.81 Directional Ant. Gain [dBi] 0.81	10.11 Max e.i.r.p [dBm]	36.02 e.i.r.p Limit [dBm]	-25.91 e.i.r.p Margin [dB]
## 1		Freq [MHz]  2412 2437	Channel 1 6	Detector	Con ANT1 17.81 17.85	6.45 ac MIMO) aducted Power [d ANT2 17.41 17.57	9.29  Bm]  MIMO 20.63 20.72	30.00  Conducted Power Limit [dBm] 30.00 30.00	-20.71  Conducted Power Margin [dB] -9.37 -9.28	0.81 Directional Ant. Gain [dBi] 0.81	10.11 Max e.i.r.p [dBm] 21.44 21.53	36.02 e.i.r.p Limit [dBm] 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49
## 1		Freq [MHz]  2412  2437  2462	Channel  1  6 11	Detector	Con ANT1 17.81 17.85 17.89	6.45 ac MIMO) nducted Power [d ANT2 17.41 17.57 17.62	9.29  Bm]  MIMO 20.63 20.72 20.77	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00	-20.71  Conducted Power Margin [dB] -9.37 -9.28 -9.23	0.81 Directional Ant. Gain [dBi] 0.81 0.81	10.11 Max e.i.r.p [dBm] 21.44 21.53 21.58	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44
Conducted   Power [dBm]   Conducted   Power [dBm]   Power Margin [dBm]   Freq [MHz]   Channel   Power [dBm]   Detector   Conducted   Power [dBm]   Power Margin [dBm]   [dBm]   Power Margin [dBm]		Freq [MHz]  2412  2437  2462  2467	Channel  1  6 11 12	Detector	Con ANT1 17.81 17.85 17.89 5.66	6.45 ac MIMO) aducted Power [d ANT2 17.41 17.57 17.62 5.88	9.29  Bm]  MIMO 20.63 20.72 20.77 8.78	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81	10.11  Max e.i.r.p [dBm]  21.44  21.53  21.58  9.59	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43
Conducted   Power [dBm]   Conducted   Power [dBm]   Power Margin [dBm]   Freq [MHz]   Channel   Power [dBm]   Detector   Conducted   Power [dBm]   Power Margin [dBm]   [dBm]   Power Margin [dBm]	802.11	Freq [MHz]  2412 2437 2462 2467 2472	Channel  1  6 11 12	Detector	Con ANT1 17.81 17.85 17.89 5.66 -0.45	6.45 ac MIMO) nducted Power [d ANT2 17.41 17.57 17.62 5.88 -0.36	9.29    MIMO   20.63   20.72   20.77   8.78   2.61	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81	10.11 Max e.i.r.p [dBm] 21.44 21.53 21.58 9.59 3.42	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60
Conducted   Power [dBm]   Conducted   Power [dBm]   Power Margin [dBm]   Freq [MHz]   Channel   Power [dBm]   Detector   Conducted   Power [dBm]   Power Margin [dBm]   [dBm]   Power Margin [dBm]	802.11	Freq [MHz]  2412 2437 2462 2467 2472 2412	Channel  1 6 11 12 13 1	Detector	Con ANT1 17.81 17.85 17.89 5.66 -0.45 24.23	6.45 ac MIMO) nducted Power [d ANT2 17.41 17.57 17.62 5.88 -0.36 24.02	9.29    MIMO   20.63   20.72   20.77   8.78   2.61   27.13	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81	10.11 Max e.i.r.p [dBm] 21.44 21.53 21.58 9.59 3.42 27.95	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60 -8.07
Conducted   Power [dBm]   Conducted   Power [dBm]   Power Margin [dBm]   Freq [MHz]   Channel   Power [dBm]   Detector   Conducted   Power [dBm]   Power Margin [dBm]   [dBm]   Power Margin [dBm]	802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 6	Detector	Con ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22	9.29  MIMO 20.63 20.72 20.77 8.78 2.61 27.13 27.22	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.78	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.i.r.p [dBm]  21.44  21.53  21.58  9.59  3.42  27.95  28.03	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99
Conducted Power [dBm]	802.11	Freq [MHz]  2412  2437  2462  2467  2472  2412  2437  2462	Channel  1 6 11 12 13 1 6 11	Detector	Con ANT1 17.81 17.89 5.66 -0.45 24.19 24.36	6.45 ac MIMO) ducted Power [d  ANT2  17.41  17.57  17.62  5.88  -0.36  24.02  24.22  24.55	9,29  MIMO 20.63 20.72 20.77 8.78 2.61 27.13 27.22 27.47	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.78 -2.53	0.81 Directional Ant. Ga in [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.i.r.p [dBm]  21.44  21.53  21.58  9.59  3.42  27.95  28.03  28.28	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74
Power Limit   Conducted Power [dBm]   Power Margin   Gain [dBm]   [d	802.11	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467	Channel  1 6 11 12 13 1 6 11 12	Detector	ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22	6.45 ac MIMO) rducted Power [d ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.25 11.33	9,29  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29	30.00  Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.78 -2.53 -15.71	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91 e.ir.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92
15.95   15.28   18.64   30.00   -11.36   0.81   19.45   36.02   -16.58	IEEE 802.11	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467	Channel  1 6 11 12 13 1 6 11 12 13 1 13 11 11 12 13	Detector  Average  Peak	T(20MHz 802.11 Cor ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69	6.45 ac MIMO) aducted Power [d ANT2 17.41 17.57 17.62 5.88 -0.36 -0.36 24.02 24.02 24.22 24.55 11.33 5.77	9,29  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.78 -2.53 -15.71 -21.26	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55	36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47
15.95   15.28   18.64   30.00   -11.36   0.81   19.45   36.02   -16.58	IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 1 13 1 1 13 1 1 12 13	Average Peak 2.4GHz WIF	I (20MHz 802.11  Cot  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11	6.45 ac MIMO) aducted Power [d ANT2 17.41 17.57 17.62 5.88 -0.36 -0.36 24.02 24.02 24.02 24.55 11.33 5.77 ax MIMO)	9,29  Bm]  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29 8,74	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 50.00 50.00 Conducted	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 c.i.r.p Limit	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin
17.85	IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 1 13 1 1 13 1 1 12 13	Average Peak 2.4GHz WIF	I(20MHz 802.11  Cot  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1(20MHz 802.11	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d	9,29  Bm]  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29 8,74  Bm]	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.78 -2.53 -15.71 -21.26 Conducted Power Margin	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55	36.02 e.i.r.p Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 c.i.r.p Limit	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin
Conducted Power [dBm]	IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 1 1 13 1 1 13 1 1 12 13	Average Peak 2.4GHz WIF	I (20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 I (20MHz 802.11  Cor  ANT1	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.02 24.25 11.33 5.77 ax MIMO) aducted Power [d  ANT2	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   Bm   MIMO   MIMO   MIMO   MIMO	30.00  Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 50.00 30.00 5	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -12.26 Conducted Power Margin [dB]	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]	36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 6.i.r.p.Limit [dBm]	-25.91  e.i.r.p Margin [dB]  -14.58 -14.49 -14.44 -26.63 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.i.r.p Margin [dB]
Part   Part	.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2412 2437 2462 2467 2472 Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 Channel	Average Peak 2.4GHz WIF	I(20MHz 802.11  Cot  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1(20MHz 802.11  Cot  ANT1 15.95	6.45 ac MIMO) aducted Power [d 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d 18.58 17.58	9,29    MIMO   20,63   20,72   8,78   2,61   27,13   27,22   27,47   14,29   8,74     Bm   MIMO   18,64	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36	0.81  Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]	36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91  e.i.r.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.i.r.p Margin [dB]  -16.57
Part   Part	.11ax   IEEE 802.11	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 1 12 13 11 12 13	Detector  Average  Peak  2.4GHz WIF  Detector	I (20MHz 802.11  Coi  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11  Coi  ANT1 15.95 17.85	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57	9,29  Bm]  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29 8,74  Bm]  MIMO 18,64 20,72	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -1.36 -9.28	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53	36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91 e.i.r.p Margin [dB] -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.79 -7.74 -20.92 -26.47 e.ir.p Margin [dB] -16.57 -14.49
Part   Part	.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 Freq [MHz] 2412 2437 2462	Channel  1 6 11 12 13 1 6 6 11 12 13 1 1 6 6 11 12 13  Channel 1 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Detector  Average  Peak  2.4GHz WIF  Detector	I (20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 I (20MHz 802.11 Cor  ANT1 15.95 17.85 17.85 17.86	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.02 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74     8m    MIMO   18,64   20,72   18,63   18,63   18,63	30.00  Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.78 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm] 19.45 21.53 19.44	36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91  e.i.r.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.i.r.p Margin [dB] -16.57
Peak   24.58   24.60   27.60   30.00   -2.40   0.81   28.41   36.02   -7.61	.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2472 2472 2472 Freq [MHz] 2412 2437 2462 2437 2462 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 10 11 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Detector  Average  Peak  2.4GHz WIF  Detector	I (20MHz 802.11  Cot  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 I (20MHz 802.11  Cot  ANT1 15.95 17.85 15.86 5.80	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73	9,29    MIMO   20.63   20.72   20.77   8.78   2.61   27.13   27.22   27.47   14.29   8.74     Bm   MIMO   18.64   20.72   18.63   8.78   8.78	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43
Conducted   Conducted   Conducted   Power Limit   [dBm]   [d	802.11ax IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2467 2472 2412 2467 2472  Freq [MHz] 2412 2437 2462 2447 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 1 6 11 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 1 12 13 1 10 11 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Detector  Average  Peak  2.4GHz WIF  Detector	I (20MHz 802.11  Cot  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11  Cot  ANT1 15.95 17.85 15.86 -0.01	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 -0.36	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   8,74   8   MIMO   18,64   20,72   18,63   8,78   2,90   20,63   20,63   20,90   20,63   20	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -9.28 -11.36 -9.28 -11.37 -21.22 -27.10	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71	36.02 e.i.r.p.Limit [dBm] 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 36.02 236.02 236.02 36.02 36.02 36.02 36.02 36.02 36.02	-25.91  e.i.r.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.ir.p Margin [dB] -16.57 -14.49 -16.58 -26.43 -32.31
Conducted   Conducted   Conducted   Power Limit   [dBm]   [d	E 802.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2447 24412 24412 2447 24412 2447 2472 2412 2437 2462 247 2472 2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 1 6 11 12 13 1 1 6 11 12 13 1 1 1 1 12 13 1 1 1 1 1 1 1 1	Detector  Average  Peak  2.4GHz WIF  Detector	T(20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1(20MHz 802.11  Cor  ANT1 15.95 17.85 15.86 5.80 -0.01 22.17	ANT2 AST2 AST3 AST3 AST3 AST3 AST3 AST3 AST3 AST3	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,32	30.00  Conducted Power Limit [dBm] 30.00 3	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 Max e.ir.p [dBm] 19.45 21.53 19.44 9.59 3.71 26.14	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB] -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61
Conducted   Power Limit   Conducted   Power Limit   Conducted   Power Margin   Conducted   Power Mar	E 802.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2412 2437 2462 2467 2472 2412 2412 2417 2412 2412	Channel  1 6 11 12 13 1 1 12 13 1 1 12 13 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average	I (20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 17.89 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11  Cor  ANT1 15.95 17.85 15.86 5.80 -0.01 22.17 24.58 22.31	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 -0.22 22.45 22.450 22.55	9,29  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29 8,74   Bm] MIMO 18,64 20,72 18,63 8,78 2,90 25,32 27,60 25,43	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -12.22 -27.10 -4.68 -2.40 -4.57	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24	36.02 e.i.r.p. Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.ir.p Margin [dB] -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61
Conducted Power [dBm]	E 802.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472  Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472	Channel  1 6 11 12 13 1 1 6 6 11 12 13  Channel 1 1 1 6 6 11 12 13 1 6 11 12 13 1 12 13 1 10 11 12 13 11 11 12 13 11 11 11 12 13 11 11 11 11 11 11 11 11 11 11 11 11	Peak  2.4GHz WIF  Detector  Average	I (20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 24.19 I (20MHz 802.11 Cor  ANT1 15.95 17.85 17	6.45 ac MIMO) aducted Power [d  ANT2  17.41  17.57  17.62  5.88  -0.36  24.02  24.22  24.55  11.33  5.77  ax MIMO) aducted Power [d  ANT2  15.28  17.57  15.36  5.73  -0.22  24.50  24.60  24.60  24.60	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74     8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,43   15,20	30.00 Conducted Power Limit [dBm] 30.00	20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	E 802.11ax   IEEE 802.11	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472  Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 16 6 11 12 13 1 16 6 11 12 13 1 1 1 12 13 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average	I (20MHz 802.11  Coi  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11  Coi  ANT1 15.95 17.85 15.86 -0.01 22.17 24.58 22.31 12.22 7.40	ANT2 17.57 11.33 5.77 ax MIMO) awtited Power [d  ANT2 17.41 17.57 15.88 -0.36 24.02 24.02 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 22.45 22.45 24.60 22.52 12.16	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74     8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,43   15,20	30.00 Conducted Power Limit [dBm] 30.00	20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472  Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2472	Channel  1 6 11 12 13 1 6 11 12 13 1 16 6 11 12 13 1 16 6 11 12 13 1 1 1 12 13 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average	I (20MHz 802.11  Coi  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11  Coi  ANT1 15.95 17.85 15.86 -0.01 22.17 24.58 22.31 12.22 7.40	ANT2 17.57 11.33 5.77 ax MIMO) awtited Power [d  ANT2 17.41 17.57 15.88 -0.36 24.02 24.02 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 22.45 22.45 24.60 22.52 12.16	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74     8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,43   15,20	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB] -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 1 6 6 11 12 13  Channel 1 1 6 11 12 13  Channel 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Average  Peak  2.4GHz WIF	COMHz 802.11	ANT2 17.57 17.62 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d	9,29    MIMO   20.63   20.72   20.77   8.78   2.61   27.13   27.22   27.47   14.29   8.74     8.74     8.74     8.74     8.74     8.74     8.75   2.90   25.32   27.60   25.43   15.20   10.22   10.22   10.22	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437	Channel  1 6 11 12 13 1 1 6 6 11 12 13  Channel 1 1 6 11 12 13  Channel 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Average  Peak  2.4GHz WIF	COMHz 802.11	ANT2 15.38 11.33 5.77 24.402 24.22 24.55 11.33 5.77 24.MIMO) 24.02 24.22 24.55 24.22 24.55 24.22 24.55 24.22 24.55 24.22 24.55 24.26 24.22 24.55 24.26 24.21 25.28 25.27 25.28 26.26 26.26 27.01 26.26 26.26 26.26 27.01 26.26 26.26 27.01 26.26 27.01 26.26 27.01 26.27 27.01 26.27 27.01 26.27 27.01 27.01 28.27 29.28 29.28 29.28 29.28 29.28 29.28 29.28 29.28 29.28 29.28 29.28 20.29 20.29 20.28 20.28 20.29 20.28 20.29 20.28 20.29 20.28 20.29 20.29 20.28 20.29 20.29 20.29 20.29 20.29 20.29 20.29 20.29 20.29 20.20	9,29    MIMO   20.63   20.72   20.77   8.78   2.61   27.13   27.22   27.47   14.29   8.74     8.74     8.74     8.74     8.74     8.74     8.75     2.90   25.32   27.60   25.43   15.20   10.22     8.89	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.87 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  Freq [MHz]  2412 2437 2462 2467 2472 2412 2417 2472 2412 2417 2472 2417 2472 2472	Channel  1 6 11 12 13 1 1 6 6 11 12 13  Channel 1 1 6 11 12 13  Channel 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Average  Peak  2.4GHz WIF	I (20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 I (20MHz 802.11 15.95 17.85 15.86 5.80 -0.01 22.17 24.58 22.31 12.22 7.40 I (20MHz 802.11	6.45 ac MIMO) aducted Power [d  ANT2  17.41  17.57  17.62  5.88  -0.36  24.02  24.22  24.25  24.25  11.33  5.77  ax MIMO) aducted Power [d  ANT2  ANT2  15.28  17.57  15.36  5.73  -0.22  22.45  24.60  22.25  12.16  7.01  aducted Power [d  ANT2	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB]	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p [dBm]	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.ir.p Margin [dB]  -16.57 -14.49 -16.58 -20.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  e.ir.p Margin [dB]
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2472 2412 2437 2462 2472  Freq [MHz]  2412 2437 2467 2472  Freq [MHz]  Freq [MHz]  Freq [MHz]	Channel  1 6 11 12 13 1 1 6 6 11 12 12 13  Channel 1 1 6 11 12 13 1 1 10 11 12 13 1 1 10 11 11 12 13 1 1 10 11 11 11 11 11 11 11 11 11 11 11	Peak  2.4GHz WIF  Average  Peak  2.4GHz WIF	COMHz 802.11   Cot	ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 24.26 24.27 24.25 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 12.16 7.01 be MIMO) aducted Power [d  ANT2 15.26	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,43   15,20   10,22   8m]   MIMO   18,65	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.35	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p [dBm]	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin [dB]
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2467 2472 2412 2467 2472  Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz]	Channel  1 6 11 12 13 1 6 11 12 13 1 16 6 11 12 13 1 16 6 11 12 13 1 1 16 6 11 12 13 1 16 6 11 16 11 16 11 16 11 16 11 16 11 16 11 16 16	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Detector	I (20MHz 802.11  Coi  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 1 (20MHz 802.11  Coi  ANT1 15.95 17.85 15.86 -0.01 22.17 24.58 22.31 12.22 7.40 1 (20MHz 802.11  Coi  ANT1 15.98 15.98 17.83	ANT2 15.36 17.57 22.45 17.57 24.60 24.72 24.72 24.72 24.73 24.73 24.73 24.73 24.73 25.77 25.78 26.77 27.78 27.79 2	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   8,74   8,74   8,74   8,74   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,32   27,60   25,43   15,20   10,22   8m]   MIMO   18,65   20,71   18,65   20,71	30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00 30.00 30.00 30.00 30.00 30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB]	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 26.24 16.01 11.03  Max e.ir.p [dBm]	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB] -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin [dB]
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  Freq [MHz]  5	Channel  1 1 6 11 12 13 1 1 12 13  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Detector	I (20MHz 802.11  Cor  ANT1 17.81 17.85 17.89 5.66 -0.45 24.23 24.19 24.36 11.22 5.69 I (20MHz 802.11 15.95 17.85 15.86 5.80 -0.01 22.17 24.58 22.31 12.22 7.40 I (20MHz 802.11 15.98 I (20MHz 802.11 15.98 17.85 15.86	ac MIMO) aducted Power [d  ANT2  17.41  17.57  17.62  5.88  -0.36  24.02  24.22  24.55  11.33  5.77  ax MIMO) aducted Power [d  ANT2  15.28  17.57  15.36  5.73  -0.22  22.45  24.60  22.12  24.60  22.12  21.16  ANT2  15.26  ANT2  15.26  ANT2  15.26  ANT2  15.26  ANT2	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74     8,74     8,74     8,74     18,64   20,72   21,60   25,32   27,60   25,43   15,20   10,22     8,74     18,65   20,71   18,66	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB]	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p [dBm]	36.02 e.i.r.p. Limit [dBm] 36.02	-25.91  e.i.r.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  e.i.r.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  e.i.r.p Margin [dB]
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2462 2467 2472  Freq [MHz] Freq [MHz] Freq [MHz] Freq [MHz] 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 242 2437 2462 2467 2472 2412 2417 242 242 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472	Channel  1 6 11 12 13 1 1 6 11 12 13 1 1 6 11 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Detector	COMHz 802.11	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 22.45 24.60 22.52 12.16 7.01 be MIMO) aducted Power [d  ANT2 15.26 17.56 15.26 17.66 15.26 17.66 15.42 15.42	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,22   27,47   14,29   8,74   8,74   8,74   8,74   8,74   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,32   27,60   25,32   15,20   10,22   8m]   MIMO   18,66   8,66   8,66   2,44   4,41   18,65   20,71   18,66   8,66   2,44   4,75   20,63   20,43   20,71   20,65   20,71   20,75   20	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -27.	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 26.24 16.01 11.03  Max e.ir.p [dBm]  19.46 21.52 19.47 9.47	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB] -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin [dB] -16.56 -14.50 -16.55 -26.55 -32.77
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  5 Freq [MHz]  6 Freq [MHz]  7 Freq [MHz]  7 Freq [MHz]  8 Freq [MHz]  9 Freq [MHz]  9 Freq [MHz]  10 Freq [MHz]  11 Freq [MHz]  12 Freq [MHz]  12 Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2412 2437 2412 2437 2412 2437 2412 2437 2412 2437 2412 2437 2412 2437 2442 2447 2472 2442 2447 2472 2442 2447 2472 2442 2447 2472 2442 2447 2472 2442 2447	Channel  1 1 6 11 12 13 1 12 13 1 12 13  Channel 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Detector	COMHz 802.11	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 24.55 24.60 7.01 be MIMO) aducted Power [d  ANT2 15.26 17.56	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74     8,74     8,74     8   MIMO   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,43   15,20   10,22     8   MIMO   18,65   20,71   18,65   20,71   18,66   8,66   2,44   25,38   20,63   20,48   20,44   25,38   20,63   20,48   20,44   25,38   20,63   20,63   20,44   25,38   20,63   20	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -21.22 -27.10 -21.25 -21.20 -27.10 -21.21 -27.10 -21.22 -27.10 -21.23 -27.20	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p [dBm]	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.88 -7.61 -9.78 -20.01 -24.99  e.ir.p Margin [dB]
2472 13 6.55 6.66 9.62 30.00 -20.38 0.81 10.43 36.02 -25.59	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2472	Channel  1 6 11 12 13 1 1 6 11 12 13 1 1 6 11 12 13 1 1 6 6 11 12 13 1 1 6 6 11 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Average	(20MHz 802.11	ANT2 15.36 17.57 ax MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 24.55 12.16 7.01 be MIMO) aducted Power [d  ANT2 15.26 17.56 15.42 17.56 17.56 15.42 17.56 15.42 17.56 15.42 17.56 15.42 17.56 15.42 17.56 15.42 17.56 15.42 17.56 15.42 17.56 15.42 17.56	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,32   27,60   25,43   15,20   10,22   8m]   MIMO   18,65   20,71   18,66   8,66   2,44   25,38   27,65   27,65	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.35 -2.12.2 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.35 -9.29 -11.34 -27.56 -4.62 -2.35	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 11.03  Max e.ir.p [dBm]  19.46 21.52 19.47 3.25 26.19 28.46	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin [dB]
	IEEE 802.11ax SU	Freq [MHz] 2412 2437 2462 2467 2472 2412 2467 2472 2412 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412 2417 2412	Channel  1 1 6 11 12 13 1 1 6 11 12 13 13  Channel  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Average	COMHz 802.11	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 22.45 24.60 22.52 12.16 7.01 be MIMO) aducted Power [d  ANT2 15.26 17.56 15.26 17.56 15.26 17.56 15.26 17.56 15.42 22.50 24.63 21.98	9,29  MIMO 20,63 20,72 20,77 8,78 2,61 27,13 27,22 27,47 14,29 8,74  MIMO 18,64 20,72 18,63 8,78 2,90 25,32 27,60 10,22  Bm] MIMO 18,66 8,66 8,66 8,66 2,44 25,38 27,65 25,09	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -2.71.0 -2.122 -27.10 -2.134 -2.134 -2.134 -2.134 -2.134 -2.134 -2.134 -2.134 -2.135 -2.35 -4.91	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 26.24 16.01 11.03  Max e.ir.p [dBm]  19.46 21.52 19.47 9.47 9.47 9.47 3.25 26.19 28.46 25.90	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -3.260 -7.79 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin [dB]  -16.56 -14.50 -16.55 -26.55 -32.77 -9.83 -7.56 -10.12
	IEEE 802.11ax SU	Freq [MHz]  2412 2437 2462 2467 2472 2412 2437 2462 2467 2472 2412 2437 2462 2467 2472  Freq [MHz]  Freq [MHz]  Freq [MHz]  Freq [MHz]  2412 2437 2462 2467 2472  2412 2437 2462 2467 2472 2412 2437	Channel  1 1 6 11 12 13 1 1 12 13 1 1 1 1 12 13 1 1 1 1	Peak  2.4GHz WIF  Detector  Average  Peak  2.4GHz WIF  Average	COMHz 802.11	6.45 ac MIMO) aducted Power [d  ANT2 17.41 17.57 17.62 5.88 -0.36 24.02 24.22 24.55 11.33 5.77 ax MIMO) aducted Power [d  ANT2 15.28 17.57 15.36 5.73 -0.22 24.55 24.60 22.52 12.16 7.01 be MIMO) aducted Power [d  ANT2 15.26 17.56	9,29    MIMO   20,63   20,72   20,77   8,78   2,61   27,13   27,22   27,47   14,29   8,74   8,74   8m]   MIMO   18,64   20,72   18,63   8,78   2,90   25,43   15,20   10,22   8m]   MIMO   18,65   20,71   18,66   8,66   2,44   25,38   27,65   25,09   15,53   25,09   15,53   25,09   15,53   27,65   25,09   15,53   27,65   25,09   15,53   27,65   25,09   15,53   27,65   25,09   15,53   20,77   15,53   27,65   25,09   15,53   27,65   25,09   15,53   27,65   25,09   15,53   27,65   25,09   15,53   27,65	30.00 Conducted Power Limit [dBm] 30.00	-20.71 Conducted Power Margin [dB] -9.37 -9.28 -9.23 -21.22 -27.39 -2.53 -15.71 -21.26 Conducted Power Margin [dB] -11.36 -9.28 -11.37 -21.22 -27.10 -4.68 -2.40 -4.57 -14.80 -19.78 Conducted Power Margin [dB] -11.35 -9.29 -11.34 -27.56 -11.35 -9.29 -11.34 -21.34 -27.56 -2.35 -4.91 -14.47	0.81 Directional Ant. Gain [dBi] 0.81 0.81 0.81 0.81 0.81 0.81 0.81 0.81	10.11  Max e.ir.p [dBm]  21.44 21.53 21.58 9.59 3.42 27.95 28.03 28.28 15.10 9.55  Max e.ir.p [dBm]  19.45 21.53 19.44 9.59 3.71 26.14 28.41 26.24 16.01 11.03  Max e.ir.p [dBm]  19.46 21.52 19.47 9.47 3.25 26.19 28.46 25.90 16.34	36.02 e.i.r.p.Limit [dBm] 36.02	-25.91  c.ir.p Margin [dB]  -14.58 -14.49 -14.44 -26.43 -32.60 -8.07 -7.99 -7.74 -20.92 -26.47  c.ir.p Margin [dB]  -16.57 -14.49 -16.57 -14.49 -16.58 -26.43 -32.31 -9.88 -7.61 -9.78 -20.01 -24.99  c.ir.p Margin [dB]  -16.56 -14.50 -16.55 -26.55 -32.77 -9.83 -7.56 -10.12 -19.68

Table 7-9. Conducted Output Power Measurements MIMO

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 47 of 127
1M2312110124-06.A3L	9/6/2023 - 11/06/2023	Portable Handset	Page 47 of 137



### Note:

Per ANSI C63.10-2013 Section 14.2, the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

### **Sample MIMO Calculation:**

At 2412MHz the average conducted output power was measured to be 19.69 dBm for Antenna 1 and 19.28 dBm for Antenna 2.

(19.69 dBm + 19.28 dBm) = (93.11 mW + 84.72 mW) = 177.83 mW = 22.50 dBm

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 48 of 137
1M2312110124-06.A3L	9/6/2023 - 11/06/2023	Portable Handset	raye 40 01 137



## 7.4 Power Spectral Density

### **Test Overview and Limit**

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates are investigated and the worst-case configuration results are reported in this section.

The maximum permissible power spectral density shall not be greater than 8 dBm in any 3 kHz band.

### **Test Procedure Used**

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD ANSI C63.10-2013 – Section 14.3.1 Measure-and-Sum Technique

## **Test Settings**

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 10kHz
- 4. VBW = 1MHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

### **Test Notes**

None.

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# **Power Spectral Density Measurements**

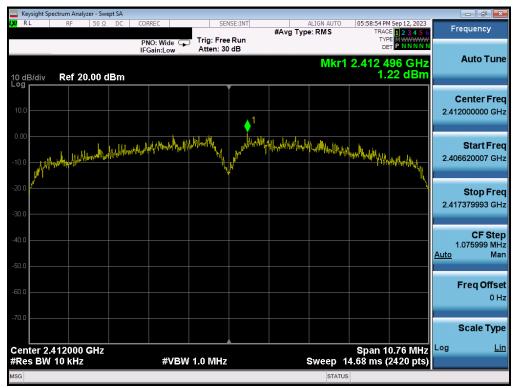
Frequency [MHz]	Channel No.	802.11 Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1.22	8.00	-6.78	Pass
2437	6	b	0.42	8.00	-7.58	Pass
2462	11	b	1.71	8.00	-6.30	Pass
2412	1	g	-2.80	8.00	-10.80	Pass
2437	6	g	-1.17	8.00	-9.17	Pass
2462	11	g	-3.18	8.00	-11.18	Pass
2412	1	n	-1.35	8.00	-9.35	Pass
2437	6	n	-3.15	8.00	-11.15	Pass
2462	11	n	-2.80	8.00	-10.80	Pass
2412	1	be	-4.97	8.00	-12.97	Pass
2437	6	be	-3.58	8.00	-11.58	Pass
2462	11	be	-3.30	8.00	-11.30	Pass

Table 7-10. Conducted Power Spectral Density Measurements SISO ANT1

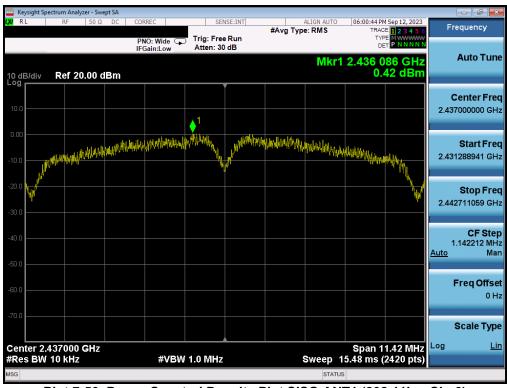
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## 7.4.1 SISO Antenna-1 Power Spectral Density Measurements



Plot 7-49. Power Spectral Density Plot SISO ANT1 (802.11b - Ch. 1)



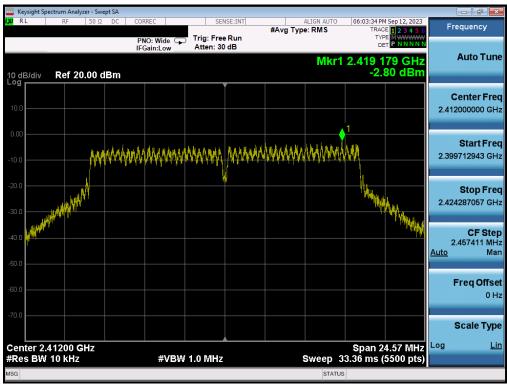
Plot 7-50. Power Spectral Density Plot SISO ANT1 (802.11b - Ch. 6)

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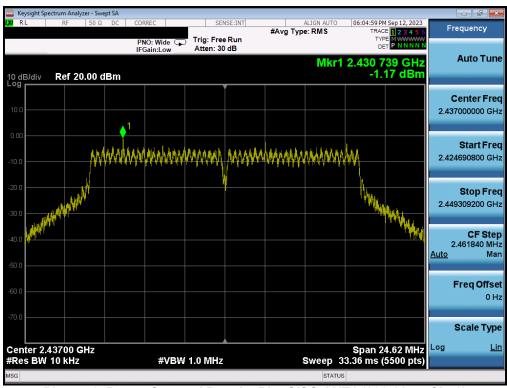
Plot 7-51. Power Spectral Density Plot SISO ANT1 (802.11b - Ch. 11)



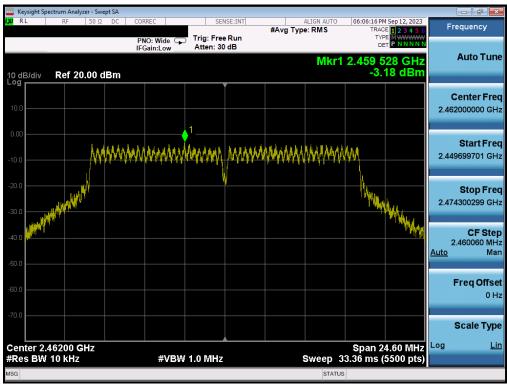
Plot 7-52. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 1)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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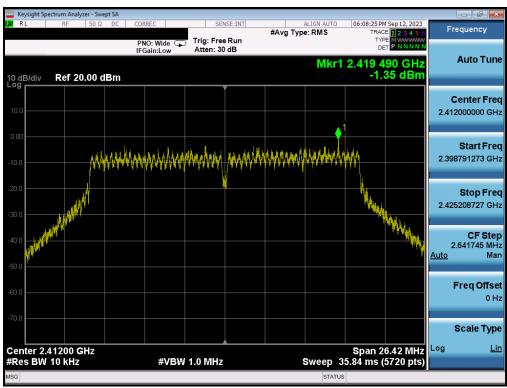
Plot 7-53. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 6)



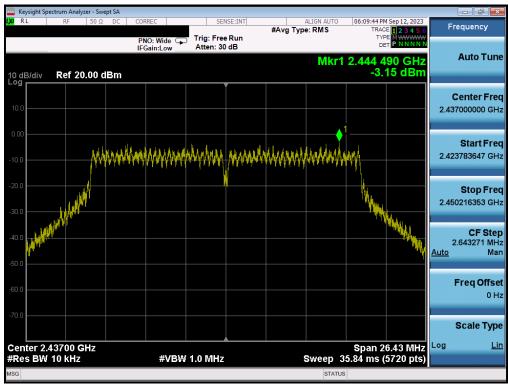
Plot 7-54. Power Spectral Density Plot SISO ANT1 (802.11g - Ch. 11)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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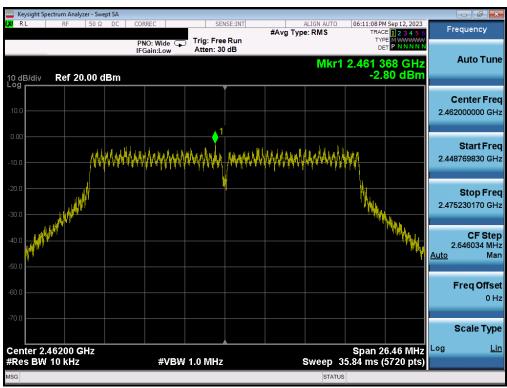
Plot 7-55. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 1)



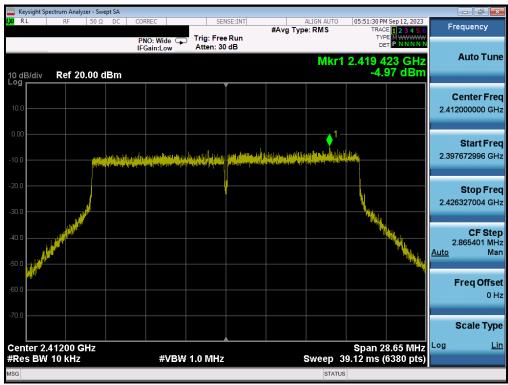
Plot 7-56. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 6)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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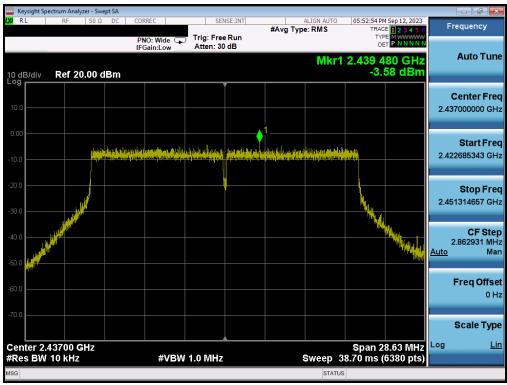
Plot 7-57. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) - Ch. 11)



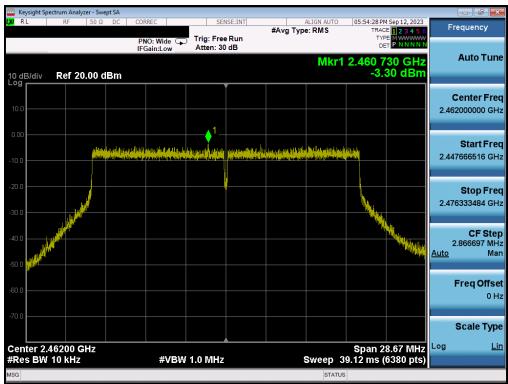
Plot 7-58. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 1)

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Plot 7-59. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 6)



Plot 7-60. Power Spectral Density Plot SISO ANT1 (802.11be (2.4GHz) - Ch. 11)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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# 7.4.2 SISO Antenna-2 Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	0.80	8.00	-7.20	Pass
2437	6	b	1.25	8.00	-6.75	Pass
2462	11	b	0.99	8.00	-7.01	Pass
2412	1	g	-3.31	8.00	-11.31	Pass
2437	6	g	-3.29	8.00	-11.29	Pass
2462	11	g	-1.33	8.00	-9.33	Pass
2412	1	n	-1.93	8.00	-9.93	Pass
2437	6	n	-2.37	8.00	-10.37	Pass
2462	11	n	-1.64	8.00	-9.64	Pass
2412	1	be	-6.96	8.00	-14.96	Pass
2437	6	be	-3.31	8.00	-11.31	Pass
2462	11	be	-2.80	8.00	-10.80	Pass

**Table 7-11. Conducted Power Spectral Density Measurements SISO ANT2** 

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Plot 7-61. Power Spectral Density Plot SISO ANT2 (802.11b - Ch. 1)



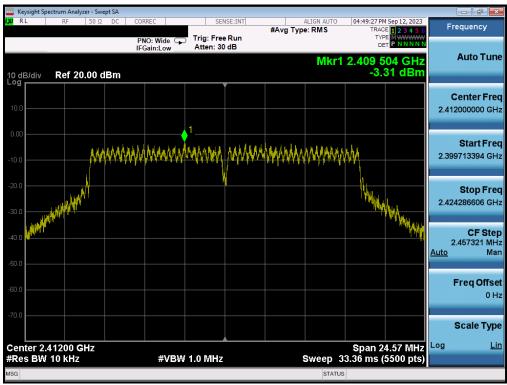
Plot 7-62. Power Spectral Density Plot SISO ANT2 (802.11b - Ch. 6)

FCC ID: A3LSMS928JPN		Approved by: Technical Manager	
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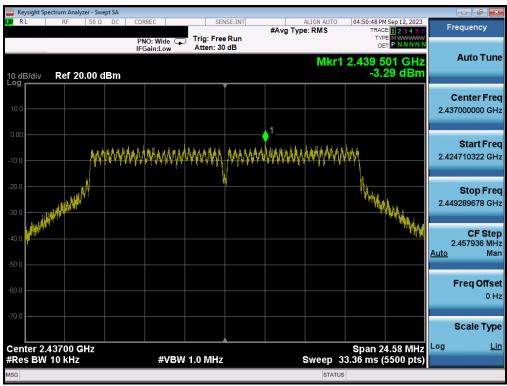
Plot 7-63. Power Spectral Density Plot SISO ANT2 (802.11b - Ch. 11)



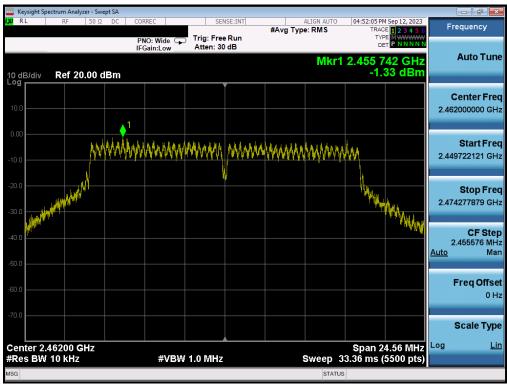
Plot 7-64. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 1)

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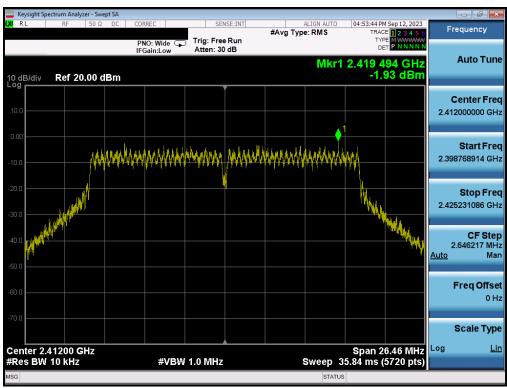
Plot 7-65. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 6)



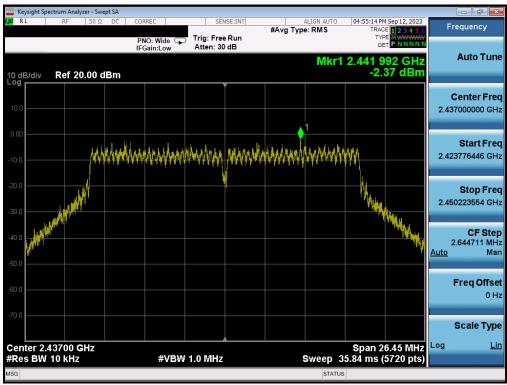
Plot 7-66. Power Spectral Density Plot SISO ANT2 (802.11g - Ch. 11)

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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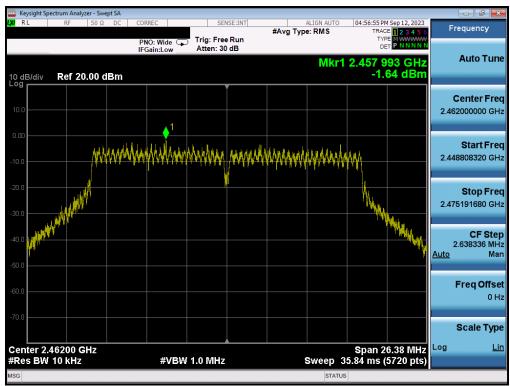
Plot 7-67. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 1)



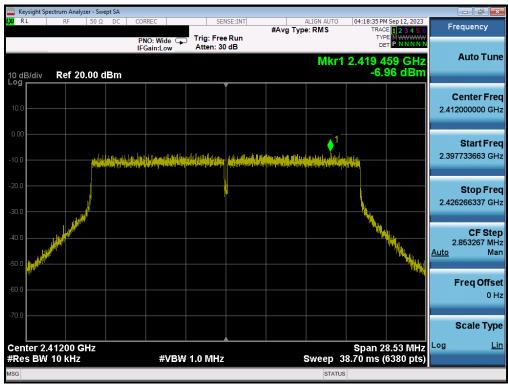
Plot 7-68. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 6)

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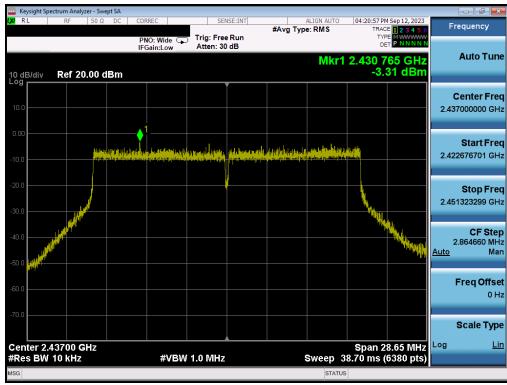
Plot 7-69. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) - Ch. 11)



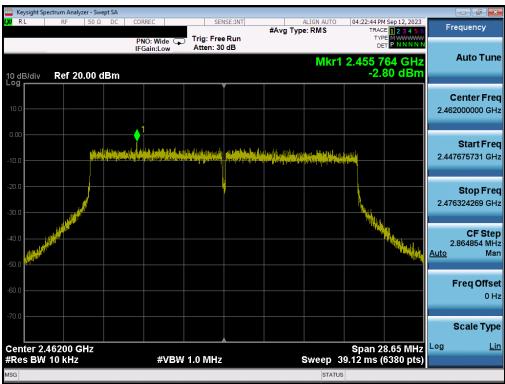
Plot 7-70. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 1)

FCC ID: A3LSMS928JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 6)



Plot 7-72. Power Spectral Density Plot SISO ANT2 (802.11be (2.4GHz) - Ch. 11)

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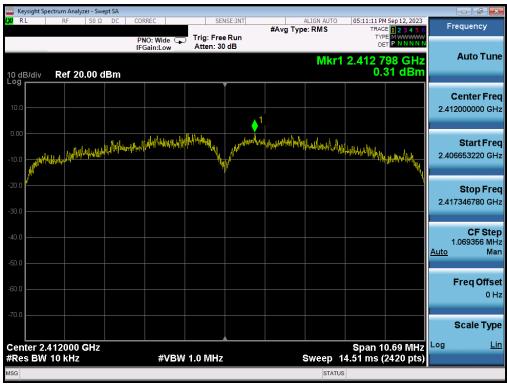
# 7.4.3 MIMO Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	0.31	1.68	4.06	8.00	-3.94	Pass
2437	6	b	0.27	0.58	3.44	8.00	-4.56	Pass
2462	11	b	3.52	0.92	5.42	8.00	-2.58	Pass
2412	1	g	-3.53	-2.26	0.16	8.00	-7.84	Pass
2437	6	g	-1.94	-2.49	0.80	8.00	-7.20	Pass
2462	11	g	-3.33	-1.35	0.78	8.00	-7.22	Pass
2412	1	n	-2.21	-1.82	1.00	8.00	-7.00	Pass
2437	6	n	-3.21	-1.11	0.98	8.00	-7.02	Pass
2462	11	n	-2.38	-1.87	0.89	8.00	-7.11	Pass
2412	1	be	-5.01	-6.23	-2.57	8.00	-10.57	Pass
2437	6	be	-3.91	-2.27	0.00	8.00	-8.00	Pass
2462	11	be	-5.88	-4.52	-2.14	8.00	-10.14	Pass

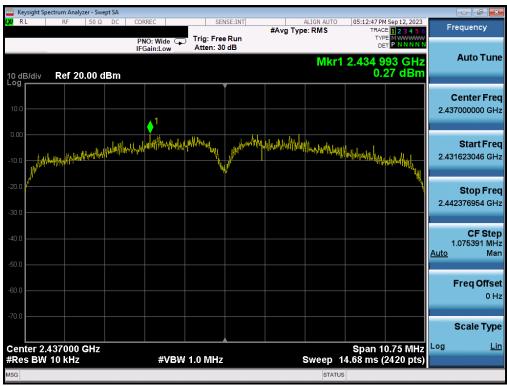
Table 7-12. Conducted Power Spectral Density Measurements MIMO

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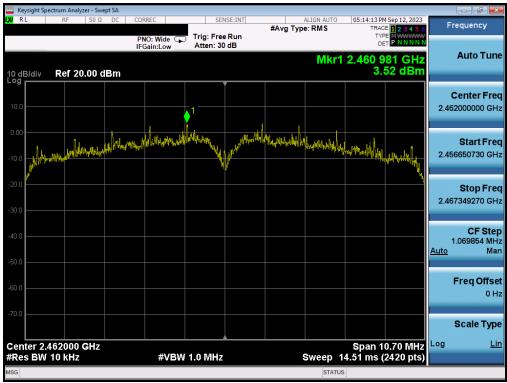
Plot 7-73. Power Spectral Density Plot MIMO ANT1 (802.11b - Ch. 1)



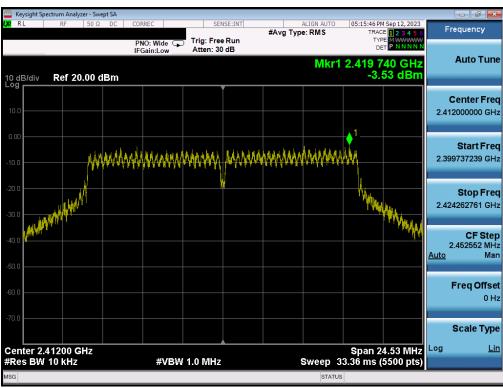
Plot 7-74. Power Spectral Density Plot MIMO ANT1 (802.11b - Ch. 6)

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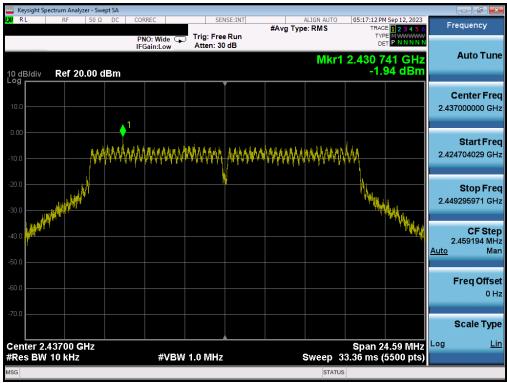
Plot 7-75. Power Spectral Density Plot MIMO ANT1 (802.11b - Ch. 11)



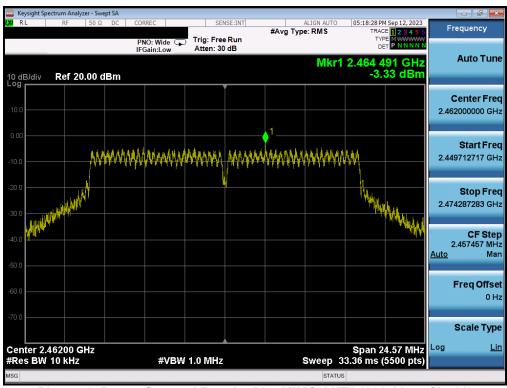
Plot 7-76. Power Spectral Density Plot MIMO ANT1 (802.11g - Ch. 1)

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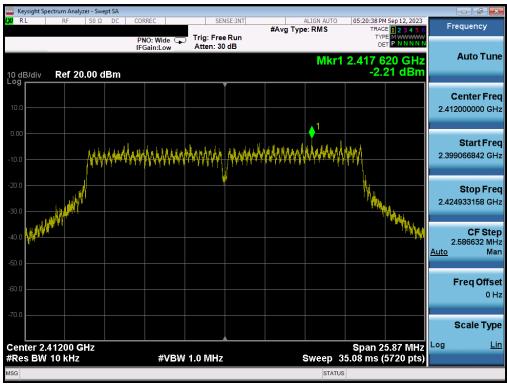
Plot 7-77. Power Spectral Density Plot MIMO ANT1 (802.11g - Ch. 6)



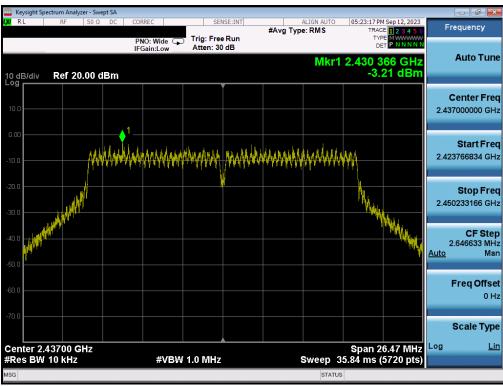
Plot 7-78. Power Spectral Density Plot MIMO ANT1 (802.11g - Ch. 11)

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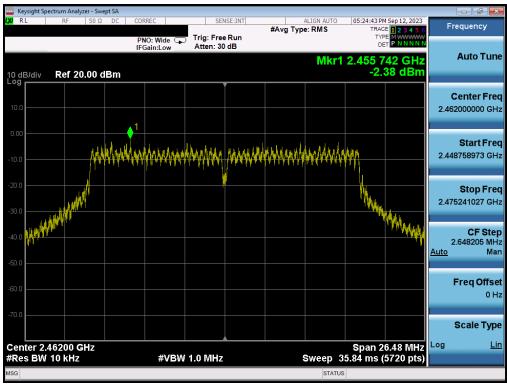
Plot 7-79. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 1)



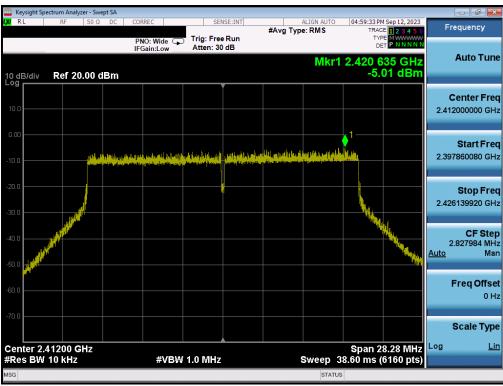
Plot 7-80. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 6)

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Plot 7-81. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) - Ch. 11)



Plot 7-82. Power Spectral Density Plot MIMO ANT1 (802.11be (2.4GHz) - Ch. 1)

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