





TEST REPORT

Applicant Name: Address:

Report Number: FCC ID: Telepower Communication Co., Ltd. 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District Foshan China SZ1240308-11533E-RF-00C 2AJ2B-M10

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type:	Pos terminal
Model No.:	M10
Multiple Model(s) No.:	M10P
Trade Mark:	Telpo
Date Received:	2024/03/12
Issue Date:	2024/06/11

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Andy Yu RF Engineer

Approved By:

Nanal Wang

Nancy Wang RF Supervisor

Note: The information marked[#] is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZ1240308-11533E-RF-00C	Original Report	2024/06/11

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Version 1.0 (2023/10/07)

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Pos terminal
Tested Model	M10
Multiple Model(s)	M10P
Frequency Range	5G Wi-Fi: 5150-5250MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80
Maximum Conducted Average Output Power	5150-5250MHz: 16.31dBm
Modulation Technique	OFDM
Antenna Specification [#]	4.34dBi (provided by the applicant)
Voltage Range	DC 24V From Adapter
Sample serial number	2IGW-1 for Conducted and Radiated Emissions Test 2IGW-2 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: ADS-65HI-19A-3 24060E Input: AC 100-240V~50/60Hz, Max. 1.5A Output: DC 24.0V, 2.5A, 60.0W
	are electrically identical with the test model except for model name. Please refer to bre detail, which was provided by manufacturer.

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter			Uncertainty	
Occupied	Channel I	Bandwidth	±5%	
RI	F Frequen	cy	213.55 Hz(k=2, 95% level of confidence)	
RF outpu	t power, c	onducted	0.72 dB(k=2, 95% level of confidence)	
Unwanted	Emission,	conducted	1.75 dB(k=2, 95% level of confidence)	
AC Power Lines Cond	ucted	9kHz-150kHz	3.94dB(k=2, 95% level of confidence)	
Emissions		150kHz-30MHz	3.84dB(k=2, 95% level of confidence)	
		9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)	
	30MHz~200MHz (Horizontal) 30MHz~200MHz (Vertical)		4.48dB(k=2, 95% level of confidence)	
			4.55dB(k=2, 95% level of confidence)	
Radiated Emissions	200MHz~1000MHz (Horizontal)		4.85dB(k=2, 95% level of confidence)	
Radiated Emissions	200MHz~1000MHz (Vertical)		5.05dB(k=2, 95% level of confidence)	
		1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)	
		6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)	
	18GHz - 40GHz		5.16dB(k=2, 95% level of confidence)	
Temperature		·e	±1°C	
Humidity			$\pm 1\%$	
Supply voltages		ges	$\pm 0.4\%$	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80, the 802.11 n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40.

For 5150-5250MHz Band, 7	channels are	provided to testing.
101 5150 5250WIIIZ Dulla, /	channels are	provided to testing.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a/ac20 mode: channel 36, 40, 48 were tested; For 802.11ac40 mode: channel 38, 46 were tested; For 802.11ac80 mode, channel 42 was tested.

EUT Exercise Software

"QRCT3, Cmd.exe"[#] software was used and power level as below. The software and power level was provided by the applicant. The device was tested with the worst case was performed as below:

5150-5250 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting [#]
	Lowest	5180	6Mbps	15
802.11a	Middle	5200	6Mbps	15
	Highest	5240	6Mbps	15
802.11ac vht20	Lowest	5180	MCS0	15
	Middle	5200	MCS0	15
	Highest	5240	MCS0	15
80 2 11	Lowest	5190	MCS0	15
802.11ac vht40	Highest	5230	MCS0	15
802.11ac vht80	Middle	5210	MCS0	15
Note: The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.				

Duty cycle

Please refer to the Appendix.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Thinkplus	U drive*2	MU251	Unknown
Lenovo	Keyboard	EKB-536A	Unknown
DELL	Mouse	Ms116P	Unknown
TP-Link	Router	EAP225	22272F6001499
YIKE	PBX	TC-208	Unknown
Unknown	TF card	Unknown	Unknown

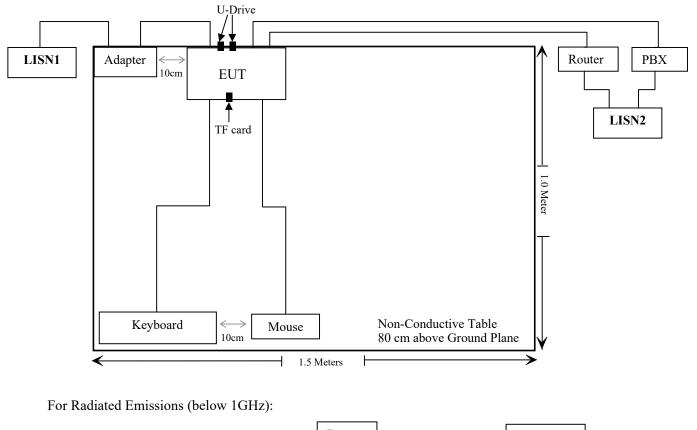
External I/O Cable

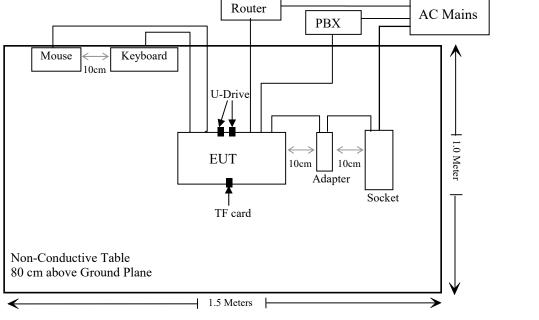
Cable Description	Length (m)	From Port	То
Un-shielded un-detachable AC cable	1.2	Socket	AC Mains
Un-shielded detachable AC cable	1.2	Adapter	LISN1/ Socket
Un-shielded un-detachable DC cable	1.8	EUT	Adapter
Un-shielded detachable RJ45 cable	8.0	EUT	Router
Un-shielded detachable RJ11 cable	10	EUT	PBX
Un-shielded un-detachable AC cable	1.5	PBX	LISN2/ AC Mains
Un-shielded detachable AC cable	1.2	Router	LISN2/ AC Mains
Un-shielded un-detachable USB cable	1.2	EUT	Keyboard
Un-shielded un-detachable USB cable	1.2	EUT	Mouse

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Block Diagram of Test Setup

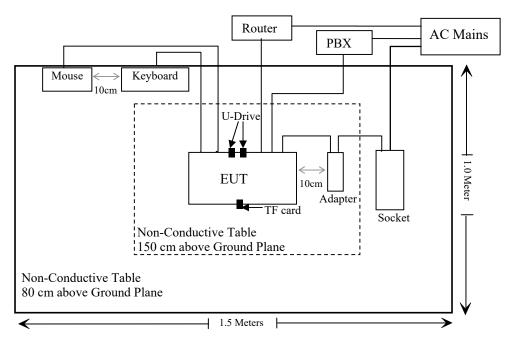
For Conducted Emissions:





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For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) & §2.1091	MPE-Based Exemption	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Not Applicable

Not Applicable: The supplier declared that the equipment has no this function.

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		Conducted Emiss	sions Test		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2023/08/03	2024/08/02
Unknown	CE Cable	CE Cable	UF A210B-1- 0720-504504	2023/08/03	2024/08/02
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
		Radiated Emissi	ons Test		
R&S	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
BACL	Active Loop Antenna	1313-1A	4031911	2024/03/21	2025/03/20
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28
Schwarzbeck	Horn Antenna	BBHA9120D(12 01)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07
JD	Multiplex Switch Test Control Set	DT7220FSU	DQ77926	NCR	NCR
SNSD	5G Band Reject filter	BSF5150- 5850MN-0899- 004	5G filter	2023/08/03	2024/08/02
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/02	2024/08/01
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		RF Conducte	d Test		
Tonscend	RF control Unit	JS0806-2	19D8060154	2023/09/06	2024/09/05
ANRITSU	Microwave peak power sensor	MA24418A	12622	2023/08/08	2024/08/07
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2024/01/16	2025/01/15
Narda	20dB Attenuator	99899	0107	2023/07/04	2024/07/03
Unknown	RF Cable	65475	01670515	2023/07/04	2024/07/03

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

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FCC §1.1307 (B) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § $1.1307(b)(3)(i)(C)$ - Single RF Sources Subject to Routine Environmental Evaluation				
RF Source frequency (MHz)	Threshold ERP (watts)			
0.3-1.34	1,920 R ² .			
1.34-30	3,450 R ² /f ² .			
30-300	3.83 R ² .			
300-1,500	0.0128 R ² f.			
1,500-100,000	19.2R ² .			

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

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Result

Mode	Frequency (MHz)	Tune up conducted power [#]	Antenn	Antenna Gain [#]		P	Evaluation Distance	ERP Limit
		(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)
BT	2402-2480	11.5	2.97	0.82	12.32	17.06	0.2	768
BLE	2402-2480	2.5	2.97	0.82	3.32	2.15	0.2	768
2.4G Wi-Fi	2412-2462	20.0	2.97	0.82	20.82	120.78	0.2	768
5.2G Wi-Fi	5180-5240	16.5	4.34	2.19	18.69	73.96	0.2	768
GSM850*	824-849	26.24	-0.8	-2.95	23.29	213.30	0.2	422
PCS1900*	1850-1910	20.99	3.58	1.43	22.42	174.58	0.2	768
WCDMA B2	1850-1910	22.5	3.58	1.43	23.93	247.17	0.2	768
WCDMA B5	824-849	24.0	-0.8	-2.95	21.05	127.35	0.2	422
LTE B2	1850-1910	22.0	3.58	1.43	23.43	220.29	0.2	768
LTE B4	1710-1755	22.0	3.73	1.58	23.58	228.03	0.2	768
LTE B5	824-849	23.0	-0.8	-2.95	20.05	101.16	0.2	422
LTE B7	2500-2570	21.5	5.08	2.93	24.43	277.33	0.2	768
LTE B38	2570-2620	21.5	5.00	2.85	24.35	272.27	0.2	768
LTE B40 Lower	2305-2315	19.5	5.32	3.17	22.67	184.93	0.2	768
LTE B40 Upper	2350-2360	19.5	5.32	3.17	22.67	184.93	0.2	768
LTE B41	2496-2690	22.0	5.08	2.93	24.93	311.17	0.2	768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant. 2. The BT, 2.4G Wi-Fi and 5G Wi-Fi can transmit at same time. 3. 0dBd=2.15dBi

Note*: It was the time average power according to the duty cycle.

Mode		Tune-up	Peak Output (dBm)	Power	Tune-up Average Output Power (dBm)			
		Low	Middle	High	Low	Middle	High	
	1 slot	32.5	32.5	32.5	23.47	23.47	23.47	
GPRS850	2 slots	31.5	31.5	31.5	25.48	25.48	25.48	
GPK5850	3 slots	30.5	30.5	30.5	26.24	26.24	26.24	
	4 slots	28.5	28.5	28.5	25.49	25.49	25.49	
	1 slot	28.0	28.0	28.0	18.97	18.97	18.97	
CDD C1000	2 slots	26.5	26.5	26.5	20.48	20.48	20.48	
GPRS1900	3 slots	25.0	25.0	25.0	20.74	20.74	20.74	
	4 slots	24.0	24.0	24.0	20.99	20.99	20.99	

Note: the duty cycle for 1 slot is 1/8, 2 slots is 1/4, 3 slots is 3/8, 4 slots is 1/2 The average power=Peak power+ duty cycle factor Duty cycle factor=10*log (duty cycle)

NFC	:

	Frequency	Maximum E-Field	Maximum EIRP	EI	RP	Evaluation	ERP
Mode	(MHz)	(dBuV/m@3m)	(dBm)	(dBm)	(mW)	Distance (m)	Limit (mW)
NFC	13.56	72.09	-23.11	-25.26	0.003	0.2	751

Note: EIRP = E-Field -95.2 @3m, ERP = EIRP-2.15

Simultaneous transmitting consideration (worst case):

The ratio=ERP_{BT}/limit+ERP_{2.4G Wi-Fi}/limit+ERP_{5G Wi-Fi}/limit+ERP_{GSM850}/limit+ERP_{NFC}/limit = 17.06/768 + 120.78/768 + 73.96/768 + 213.3/422 + 0.003/751 = 0.781 < 1.0

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

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

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

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one internal antenna which was permanently attached, and the maximum antenna gain[#] is 4.34dBi, fulfill the requirement of this section. Please refer to the EUT photos.

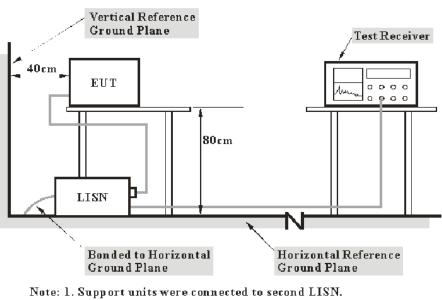
Result: Compliant

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

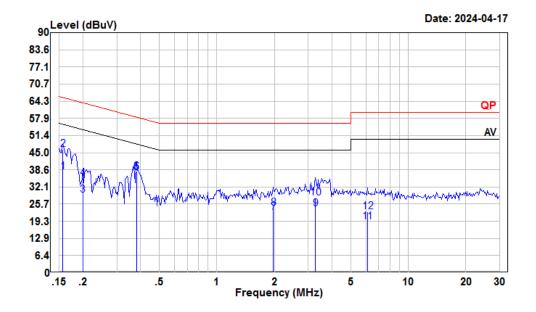
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101kPa

The testing was performed by Macy Shi on 2024-04-17.

EUT operation mode: Transmitting (Maximum output power mode, 802.11 ac 40, 5190MHz)

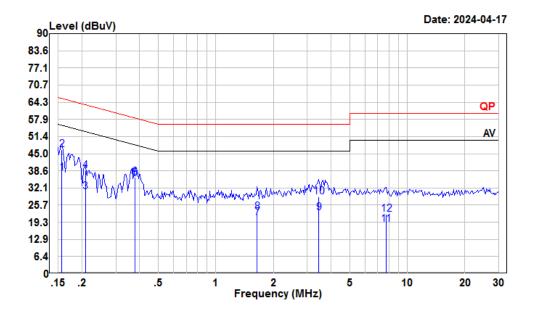
AC 120V/60 Hz, Line



Condition:	Line
Project :	SZ1240308-11533E-RF
Tester :	Macy shi
Note :	5G WIFI

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
1	MHz 0.16	dBuV 17.18	dBuV 37.73	dB 10.40	dB 10.15	dBuV	dB	Average
2	0.10	25.57	46.12	10.40	10.15		-19.53	0
3	0.20	8.53	29.02	10.40	10.09	53.62	-24.60	Average
4	0.20	14.94	35.43	10.40	10.09	63.62	-28.19	QP
5	0.38	17.19	37.65	10.26	10.20	48.25	-10.60	Average
6	0.38	17.22	37.68	10.26	10.20	58.25	-20.57	QP
7	1.97	2.11	22.60	10.31	10.18	46.00	-23.40	Average
8	1.97	3.82	24.31	10.31	10.18	56.00	-31.69	QP
9	3.28	3.30	23.94	10.37	10.27	46.00	-22.06	Average
10	3.28	7.41	28.05	10.37	10.27	56.00	-27.95	QP
11	6.12	-1.65	19.12	10.55	10.22	50.00	-30.88	Average
12	6.12	2.18	22.95	10.55	10.22	60.00	-37.05	QP

AC 120V/60 Hz, Neutral



Condition	:	Neutral
Project	:	SZ1240308-11533E-RF
Tester	:	Macy shi
Note	:	5G WIFI

		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	17.32	37.73	10.26	10.15	55.65	-17.92	Average
2	0.16	26.15	46.56	10.26	10.15	65.65	-19.09	QP
3	0.21	9.94	30.66	10.61	10.11	53.27	-22.61	Average
4	0.21	17.88	38.60	10.61	10.11	63.27	-24.67	QP
5	0.38	14.80	35.73	10.74	10.19	48.34	-12.61	Average
6	0.38	15.16	36.09	10.74	10.19	58.34	-22.25	QP
7	1.65	0.75	21.01	10.16	10.10	46.00	-24.99	Average
8	1.65	2.91	23.17	10.16	10.10	56.00	-32.83	QP
9	3.45	2.22	22.83	10.34	10.27	46.00	-23.17	Average
10	3.45	8.16	28.77	10.34	10.27	56.00	-27.23	QP
11	7.73	-2.31	18.38	10.46	10.23	50.00	-31.62	Average
12	7.73	1.52	22.21	10.46	10.23	60.00	-37.79	QP

§15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION

Applicable Standard

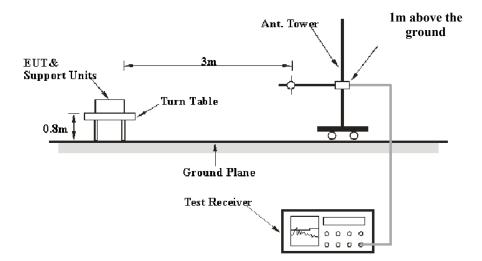
FCC §15.407 (b); §15.209; §15.205;

- (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz above or below the band edge.

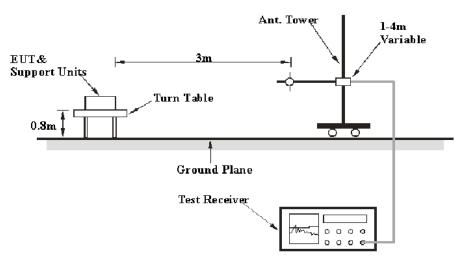
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

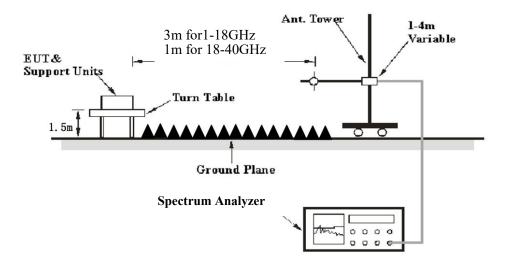
9 kHz-30MHz:



30MHz-1GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
9 кп2 — 130 кп2	300 Hz	1 kHz	/	PK
150111 20 MI	/	/	9 kHz	QP
150 kHz – 30 MHz	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
50 MINZ – 1000 MINZ	100 kHz	300 kHz	/	PK

1-40GHz:

Measurement	Duty cycle	RBW	Video B/W
РК	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
AV	<98%	1MHz	≥1/Ton

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in					
	dBµV/m					
E_{Meas}	is the field strength of the emission at the measurement distance, in $dB\mu V/m$					
d_{Meas}	is the measurement distance, in m					
$d_{\rm SpecLimit}$	is the distance specified by the limit, in m					

So the extrapolation factor of 1m is $20*\log(1/3) = -9.5$ dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Over Limit/Margin Calculation

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

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit; Margin = Limit–Corrected Amplitude Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	22~25.3 °C
Relative Humidity:	50~54 %
ATM Pressure:	101 kPa

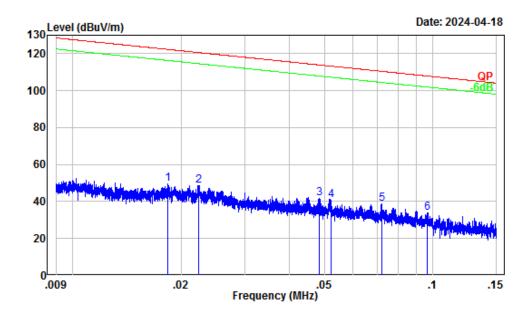
The testing was performed by Anson Su on 2024-04-18 for below 1GHz and Tyler Wu on 2024-04-11 for above 1GHz.

EUT operation mode: Transmitting

9 kHz-30MHz: (*Maximum output power mode, 802.11 ac 40, 5190MHz*)

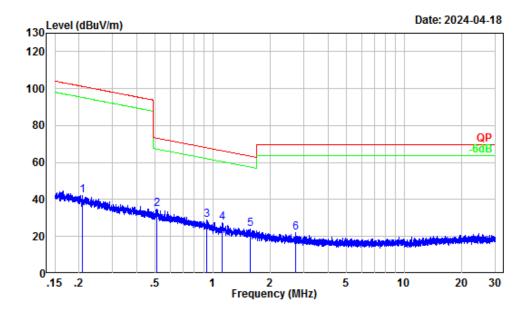
Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Parallel (worst case):



Site	:	Chamber A
Condition :	:	Зm
Project Number:	:	SZ1240308-11533E-RF
Note :	:	5G WIFI
Tester :	:	Anson Su

	Freq	Factor	Read		Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.02	33.38	16.03	49.41	122.29	-72.88	Peak
2	0.02	31.40	17.39	48.79	120.63	-71.84	Peak
3	0.05	23.43	18.18	41.61	113.91	-72.30	Peak
4	0.05	22.77	17.72	40.49	113.25	-72.76	Peak
5	0.07	20.07	18.79	38.86	110.42	-71.56	Peak
6	0.10	17.39	16.47	33.86	107.90	-74.04	Peak

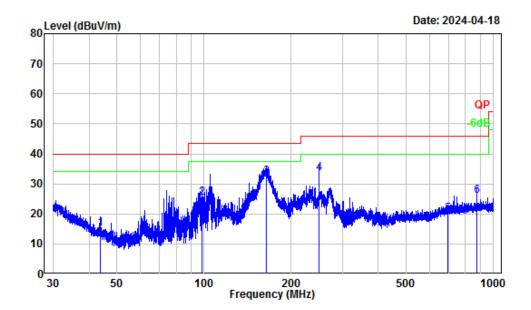


Site :	Chamber A
Condition :	Зm
Project Number:	SZ1240308-11533E-RF
Note :	5G WIFI
Tester :	Anson Su

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	11.96	30.44	42.40	101.20	-58.80	Peak
2	0.51	3.38	31.24	34.62	73.47	-38.85	Peak
3	0.93	-1.10	29.81	28.71	68.09	-39.38	Peak
4	1.13	-2.03	29.34	27.31	66.42	-39.11	Peak
5	1.57	-3.58	27.80	24.22	63.47	-39.25	Peak
6	2.72	-5.67	27.51	21.84	69.54	-47.70	Peak

30 MHz–1 GHz: (*Maximum output power mode, 802.11 ac 40, 5190MHz*)

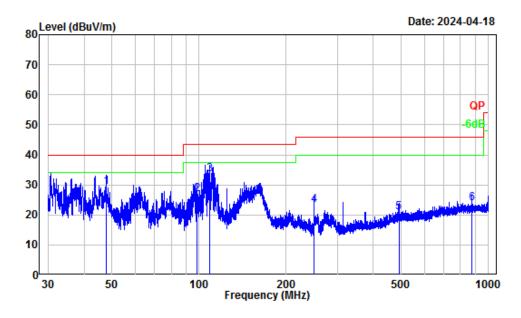
Horizontal



Chamber A
3m Horizontal
SZ1240308-11533E-RF
5G WIFI
Anson Su

	Freq	Factor			Limit Line		Remark
-	MHz		dBuV	dBuV/m	dBuV/m	dB	
1		-13.91		-	-		QP
2	98.40	-15.88	41.17	25.29	43.50	-18.21	QP
3	164.19	-14.10	46.45	32.35	43.50	-11.15	QP
4		-14.53	47.98	33.45	46.00	-12.55	QP
5	696.86	-6.22	26.29	20.07	46.00	-25.93	QP
6	875.25	-4.63	30.59	25.96	46.00	-20.04	QP





Site :	Chamber A
Condition :	3m Vertical
Project Number:	SZ1240308-11533E-RF
Note :	5G WIFI
Tester :	Anson Su

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	47.78	-17.42	46.75	29.33	40.00	-10.67	QP
2	98.44	-17.26	44.22	26.96	43.50	-16.54	QP
3	108.79	-14.60	48.07	33.47	43.50	-10.03	QP
4	249.97	-14.93	38.24	23.31	46.00	-22.69	QP
5	490.10	-8.79	29.64	20.85	46.00	-25.15	QP
6	875.25	-4.98	28.79	23.81	46.00	-22.19	QP

TR-EM-RF015

Version 1.0 (2023/10/07)

Above 1GHz:

5150-5250 MHz:

Frequency	Receiver		Dolon	Factor	Corrected	Limit	Mongin		
(MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	(dB/m)	Amplitude (dBµV/m)	(dBµV/m)	Margin (dB)		
802.11a									
5180MHz									
5140.26	55.35	PK	Н	2.71	58.06	74	-15.94		
5140.26	41.53	AV	Н	2.71	44.24	54	-9.76		
5148.53	56.39	РК	V	2.71	59.10	74	-14.90		
5148.53	43.41	AV	V	2.71	46.12	54	-7.88		
10360.00	45.15	PK	Н	13.07	58.22	68.2	-9.98		
10360.00	45.78	AV	Н	13.07	58.85	68.2	-9.35		
			5200MHz	-	-				
10400.00	45.28	PK	Н	13.12	58.40	68.2	-9.80		
10400.00	45.71	AV	Н	13.12	58.83	68.2	-9.37		
	5240MHz								
5459.76	55.18	PK	Н	3.59	58.77	74	-15.23		
5459.76	42.02	AV	Н	3.59	45.61	54	-8.39		
5451.16	55.47	PK	V	3.59	59.06	74	-14.94		
5451.16	42.35	AV	V	3.59	45.94	54	-8.06		
10480.00	45.34	PK	Н	13.07	58.41	68.2	-9.79		
10480.00	45.67	AV	Н	13.07	58.74	68.2	-9.46		

Report No.: SZ1240308-11533E-RF-00C

Enggraphy	Receiver		Deles	Ender	Corrected	T ••	Maata			
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
	802.11ac20									
5180MHz										
4846.64	55.32	РК	Н	1.69	57.01	74	-16.99			
4846.64	42.15	AV	Н	1.69	43.84	54	-10.16			
4789.25	55.73	РК	V	1.49	57.22	74	-16.78			
4789.25	42.56	AV	V	1.49	44.05	54	-9.95			
10360.00	45.38	РК	Н	13.07	58.45	68.2	-9.75			
10360.00	45.17	AV	Н	13.07	58.24	68.2	-9.96			
	5200MHz									
10400.00	45.85	РК	Н	13.12	58.97	68.2	-9.23			
10400.00	45.42	AV	Н	13.12	58.54	68.2	-9.66			
	5240MHz									
5444.03	55.47	РК	Н	3.27	58.74	74	-15.26			
5444.03	41.86	AV	Н	3.27	45.13	54	-8.87			
5354.38	56.42	РК	V	3.07	59.49	74	-14.51			
5354.38	42.05	AV	V	3.07	45.12	54	-8.88			
10480.00	46.13	РК	Н	13.07	59.20	68.2	-9.00			
10480.00	45.62	AV	Н	13.07	58.69	68.2	-9.51			

Report No.: SZ1240308-11533E-RF-00C

Fuerman	Receiver		D	Factor	Corrected	T • •/				
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
802.11ac40										
5190MHz										
5149.46	56.32	РК	Н	2.77	59.09	74	-14.91			
5149.46	46.74	AV	Н	2.77	49.51	54	-4.49			
5149.53	57.65	РК	V	2.77	60.42	74	-13.58			
5149.53	47.89	AV	V	2.77	50.66	54	-3.34			
10380.00	45.07	РК	Н	13.09	58.16	68.2	-10.04			
10380.00	44.38	AV	Н	13.09	57.47	68.2	-10.73			
<u>.</u>	5230MHz									
5417.74	55.13	РК	Н	3.17	58.30	74	-15.70			
5417.74	42.57	AV	Н	3.17	45.74	54	-8.26			
5442.25	55.64	РК	V	3.27	58.91	74	-15.09			
5442.25	43.16	AV	V	3.27	46.43	54	-7.57			
10460.00	45.23	РК	Н	13.09	58.32	68.2	-9.88			
10460.00	44.62	AV	Н	13.09	57.71	68.2	-10.49			
802.11ac80										
5210MHz										
5149.53	64.05	РК	Н	2.77	66.82	74	-7.18			
5149.53	45.31	AV	Н	2.77	48.08	54	-5.92			
5148.59	65.72	РК	V	2.77	68.49	74	-5.51			
5148.59	46.94	AV	V	2.77	49.71	54	-4.29			
5361.38	55.38	РК	Н	3.07	58.45	74	-15.55			
5361.38	42.53	AV	Н	3.07	45.60	54	-8.40			
5357.24	55.72	РК	V	3.07	58.79	74	-15.21			
5357.24	43.18	AV	V	3.07	46.25	54	-7.75			
10420.00	44.34	РК	Н	13.12	57.46	68.2	-10.74			
10420.00	44.65	AV	Н	13.12	57.77	68.2	-10.43			

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

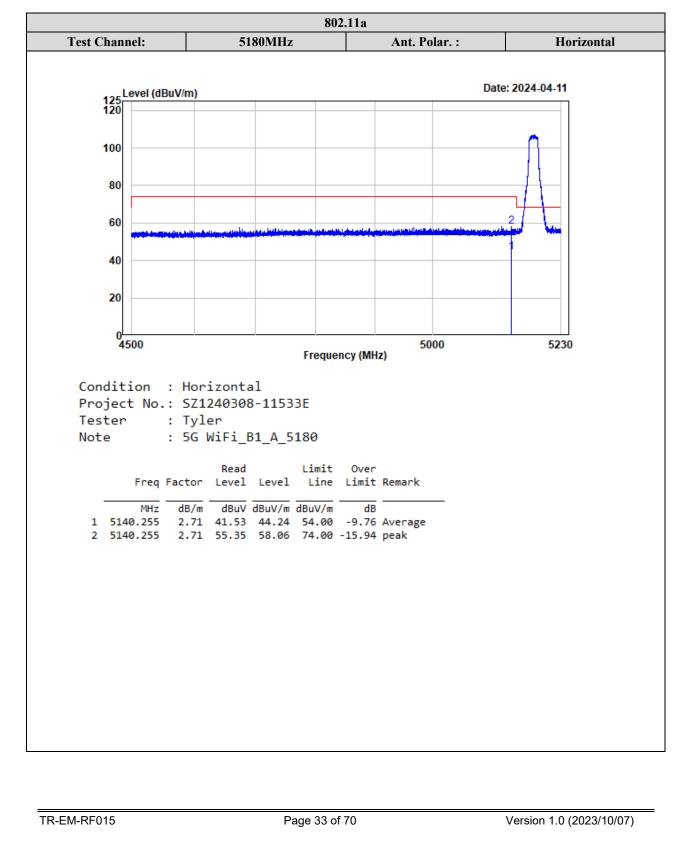
Corrected Amplitude = Factor + Reading

Margin = Corrected. Amplitude - Limit

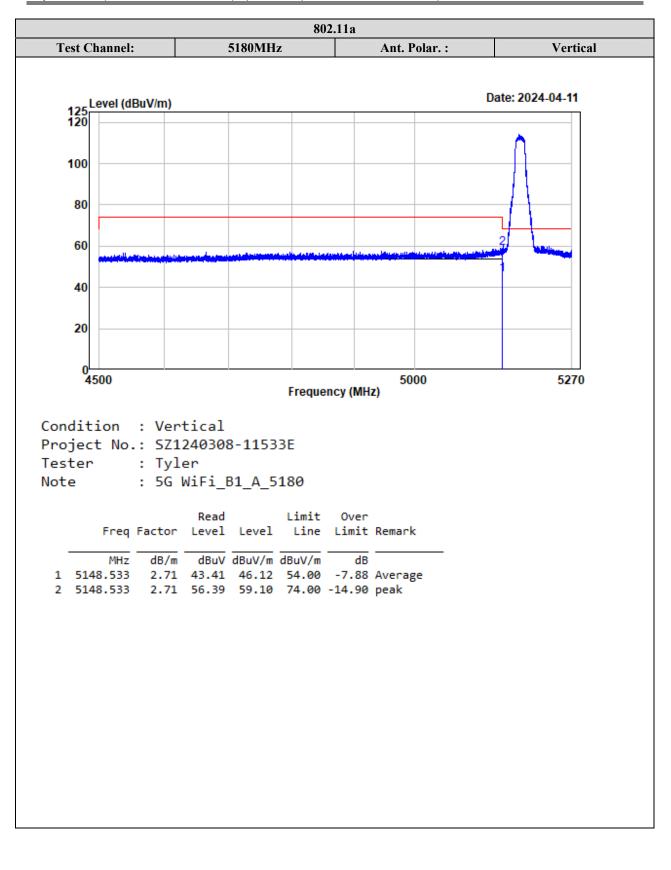
The other spurious emission which is in the noise floor level was not recorded.

Test plots for Band Edge Measurements (Radiated)

5150-5250MHz:

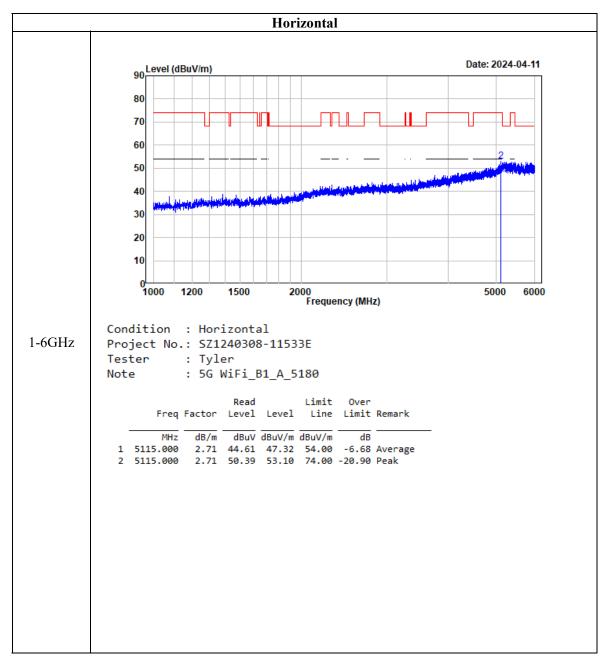


Report No.: SZ1240308-11533E-RF-00C

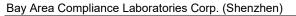


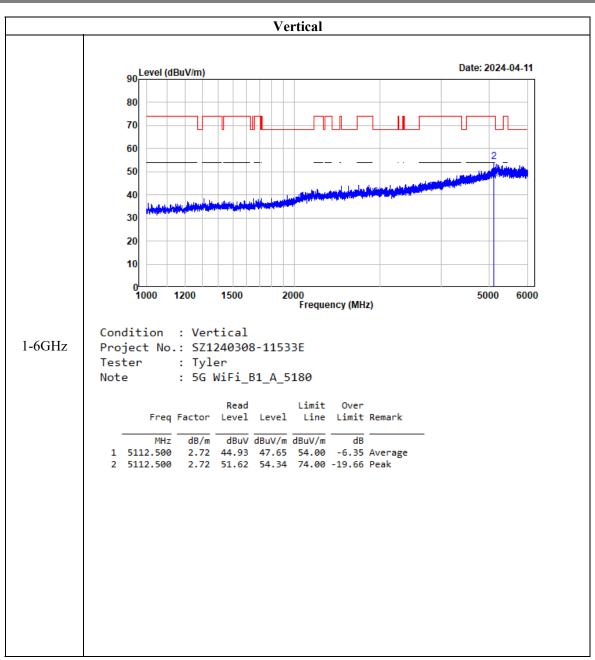
TR-EM-RF015

Test plots for Harmonic Measurements: 802.11a, 5180 MHz



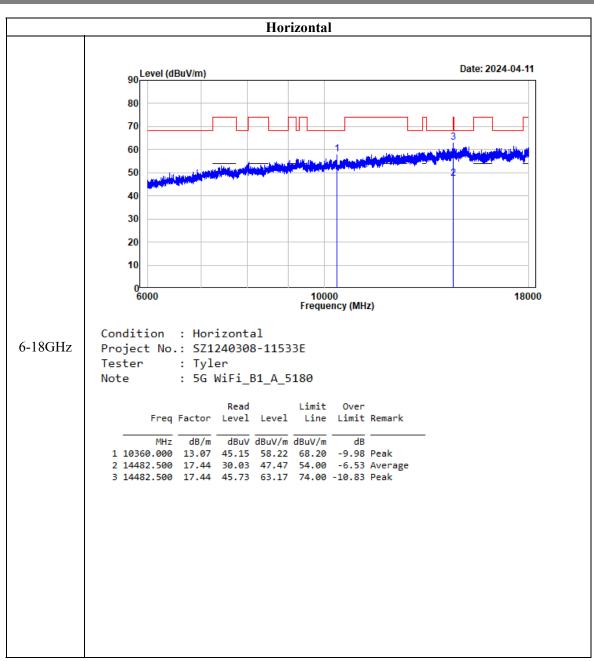
TR-EM-RF015



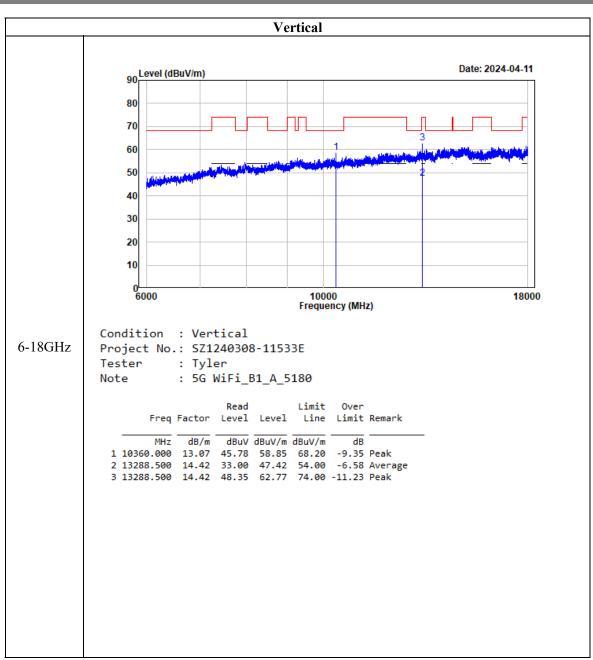


TR-EM-RF015

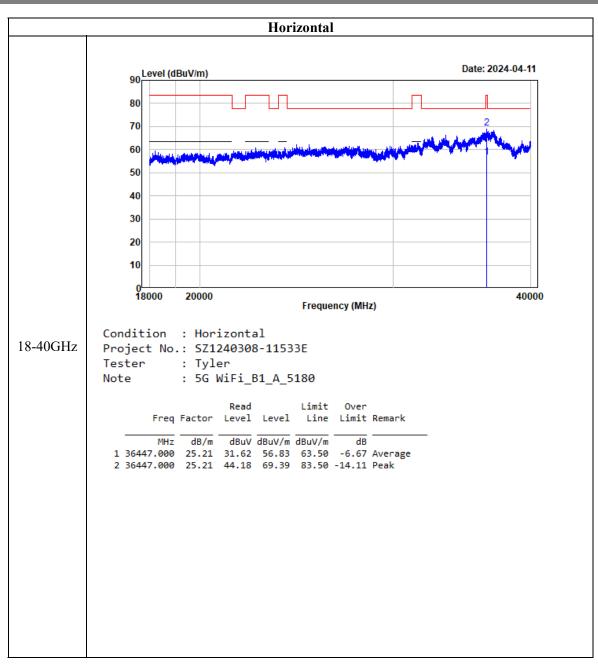
Version 1.0 (2023/10/07)



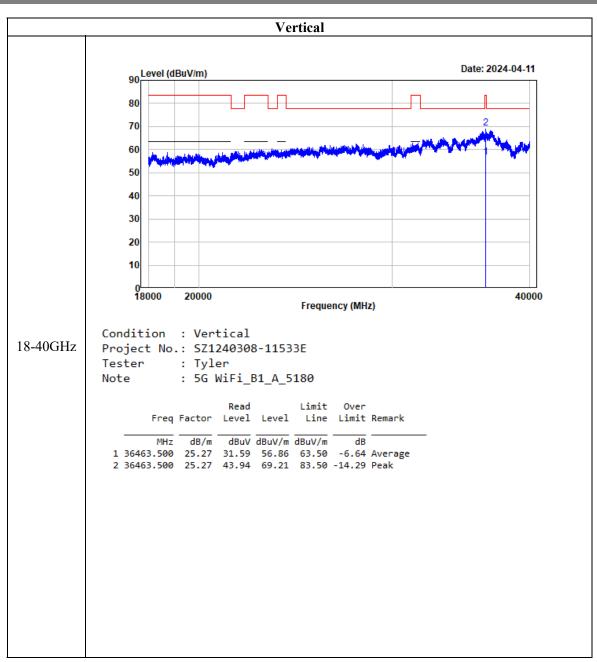
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FCC §15.407(a), (e) – 26 dB & 6dB EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C and section II.D

1. Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g') Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3. 99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Attenuator

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	101 kPa

The testing was performed by Tom Tan on 2024-04-03.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

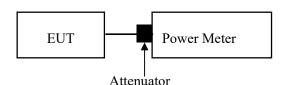
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

a. Place the EUT on a bench and set it in transmitting mode.

b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	101 kPa

The testing was performed by Tom Tan on 2024-04-03.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.407(a) - POWER SPECTRAL DENSITY

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle ≥98%

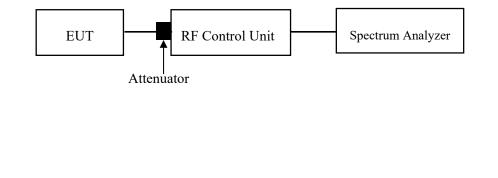
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	101 kPa

The testing was performed by Tom Tan on 2024-04-03.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

EUT PHOTOGRAPHS

Please refer to the attachment SZ1240308-11533E-RF External photo and SZ1240308-11533E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ1240308-11533E-RFA Test Setup photo.

APPENDIX

Appendix A1: Emission Bandwidth

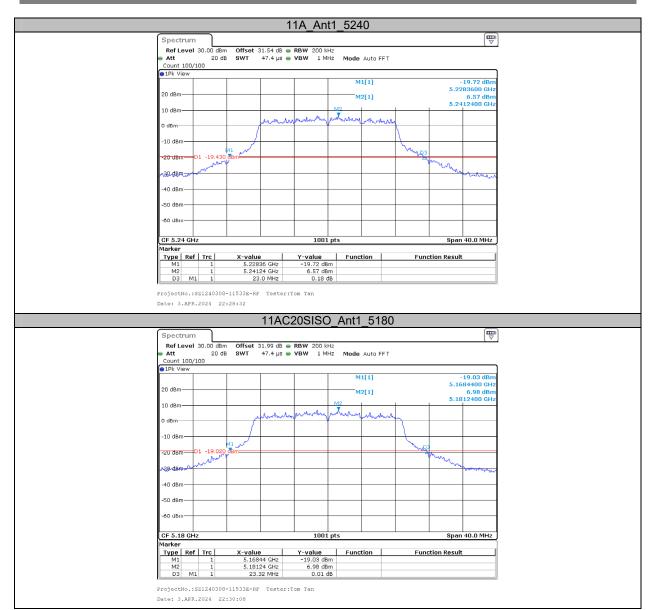
Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	Limit[MHz]	Verdict
		5180	22.72		
11A	Ant1	5200	22.76		
		5240	23.00		
		5180	23.32		
11AC20SISO	Ant1	5200	23.24		
		5240	23.08		
11AC40SISO	Ant1	5190	42.24		
11A0403130	AILI	5230	42.56		
11AC80SISO	Ant1	5210	96.48		

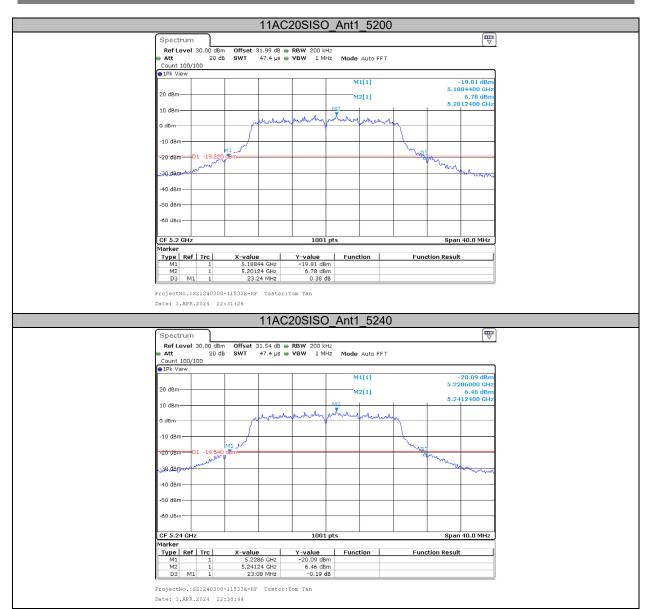
Test Graphs

			1	1A Ant	1 518	0			
Spectra	ım								
Ref Lev	el 30.00 dB			RBW 200 kH					<u>ر</u> ۷
Att Count 1	20 d	IB SWT 4	7.4 µs 👄	VBW 1 MH	z Mode	Auto FFT			
1Pk Viet									
					M1	[1]			19.58 dBm
20 dBm—	-				M2	[1]		5.16	86000 GHz 7.13 dBm
10 dBm-					M2			5.18	12400 GHz
10 0811-		at a	wornwhen	monting	when my	manhank			
0 dBm				1					
-10 dBm-	_	+ $/$					1		
		M1 ~					maga		
-20 dBm-	D1 -18.87	V dBm					- A'l	man	
m3Q_dBmy								m	mun
10 40-									
-40 dBm-									
-50 dBm-	-								
-60 dBm-									
CF 5.18	GHz			1001	pts			Span	40.0 MHz
Marker					1		-		
M1	Ref Trc 1	X-value 5.1686	GHz	Y-value -19.58 dBm	Funct	ion	Func	tion Result	
M2 D3	1 M1 1	5.18124 22.72	GHz	7.13 dBm 0.62 dB					
		8-11533E-RF	Tester:T	om Tan					
Date: 3.1	PR.2024 23	2:22:23							
			1	1A Ant	1 520	0			
					1 020	0			
Spectra	1177		· ·		1_020	0			Ē
Spectra		m Offset 31.		_	_	0			
Ref Lev Att	el 30.00 dB/ 20 d		99 dB 👄	RBW 200 kH VBW 1 MH					
Ref Lev Att _ Count 10	vel 30.00 dB 20 d 10/100		99 dB 👄	RBW 200 kH					
Ref Lev Att	vel 30.00 dB 20 d 10/100		99 dB 👄	RBW 200 kH	z z Mode				19.26 dBm
ef Lev Att Count 10	vel 30.00 dB 20 d 10/100		99 dB 👄	RBW 200 kH	z Mode M1	Auto FFT			19.26 dBm 88400 GHz
Ref Le Att Count 11 9 1Pk Vie 20 dBm-	vel 30.00 dB 20 d 10/100		99 dB 👄	RBW 200 kH	z Mode M1	Auto FFT		5.18	19.26 dBm
Ref Lev Att Count 11	vel 30.00 dB 20 d 10/100	dB SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm
Ref Le Att Count 11 9 1Pk Vie 20 dBm-	vel 30.00 dB 20 d 10/100	dB SWT 47	99 dB 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT		5.18	19.26 dBm 88400 GHz 6.75 dBm
Ref Le: ▲ Att Count 11 ● 1Pk Vie* 20 dBm 10 dBm 0 dBm	vel 30.00 dB 20 d 10/100	dB SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm
Ref Let Att Count 11 1Pk Vier 20 dBm 10 dBm	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm
Ref Let Att Count 11 1Pk Vie 20 dBm 10 dBm 0 dBm	vel 30.00 dB 20 d 10/100	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]	have been a second	5.18	19.26 dBm 88400 GHz 6.75 dBm
Ref Le Att Count 11 PIR Vie 20 dBm 10 dBm -10 dBm -20 dBm	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Lev Att Count 11 ● 1Pk Viev 20 dBm 10 dBm -10 dBm	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm
Ref Le ▲ Att Count 11 ● 1Pk Vie 20 dBm 10 dBm - 10 dBm - 20 dBm	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Le → Att Count 11 → 1Pk Vie 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm- -20 dBm-	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Lev Att Count 11 ● 1Pk Viev 20 dBm 10 dBm -10 dBm -20 dBm- -20 dBm- -40 dBm- -50 dBm-	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Let Att Count 11 PIPk Vie 20 dBm 10 dBm -10 dBm -20 dBm- -20 dBm- -40 dBm-	vel 30.00 d8/ 20 d 00/100 *	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	2 Z Mode M1 M2	Auto FFT [1] [1]		5.18	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Le • At Count 11 • 1Pk Vie 20 dBm- 10 dBm- -10 dBm- -20 dBm- -20 dBm- -20 dBm- -50 dBm- -50 dBm-	vel 30.00 dB. 00/100 20 d 00/100 20 d 0	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH	Z Mode M1 M2	Auto FFT [1] [1]		5.18 5.20	19,26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Let Att Count 11 1Pk Vie 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30,dBm- -40 dBm -50 dBm -60 dBm CF 5.2 C	vel 30.00 dB. 00/100 20 d 00/100 20 d 0	dib SWT 47	99 dB 👄 7.4 µs 👄	RBW 200 kH VBW 1 MH	Z Mode M1 M2	Auto FFT [1] [1]		5.18 5.20	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz
Ref Let Att Count 11 ● 1Pk Viet 20 dBm- 10 dBm- -10 dBm- -20 dBm- -20 dBm- -50 dBm- -50 dBm- -60 dBm- -60 dBm- -70 dBm-	Per 30.00 dB. 20 d 00/100 V D1 -19.25 M Hz	18 SWT 47	99 dB ● 7.4 µs ●	RBW 200 kH VBW 1 MH	Z Mode M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FFT [1] [1] [1]		5.18 5.20	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz 999 - 400 GHz 40.0 MHz
Ref Let Att Count 11 IPk Vie 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm CE 5.2 G Marker Type I M1	Per 30.00 dB 20 d 20 d	45 SWT 47	99 dB 7.4 µs 	RBW 200 kH VBW 1 MH	Z Mode M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FFT [1] [1] [1]		5.18 5.20	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz 999 - 400 GHz 40.0 MHz
Ref Let Att Count 11 ● 1Pk Viet 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -50 dBm- -60 dBm- -60 dBm- Marker Type I M1 M2	rel 30.00 dB 20 d 00/100 * D1 -19.25 D1 -19.25 Hz Hz	18 SWT 47	99 dB 99 dB 99 dB 99 dB 99 dB 90 dB	RBW 200 kH VBW 1 MH	z Mode M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FFT [1] [1] [1]		5.18 5.20	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz 999 - 400 GHz 40.0 MHz
Ref Let Att Count 1 IPk Vie 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -60 dBm- -60 dBm- -60 dBm- -50 dBm-	Per 30.00 dB 20 d 00/10 V D1 -19.25 D1 -19.25 Hz Ref Trc 1 1 1 1 1	48 SWT 43	99 d8 9 .+ µs 9 	RBW 200 kH VBW 1 MH IMH IMH IMH IMH IMH IMH IMH IMH IMH I	z Mode M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FFT [1] [1] [1]		5.18 5.20	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz 999 - 400 GHz 40.0 MHz
Ref Let Att Count 11 IPk Vie 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -50 dBm- -50 dBm- -60 dBm- -50 dBm-<	Per 30.00 dB 20 d 00/10 V D1 -19.25 D1 -19.25 Hz Ref Trc 1 1 1 1 1	45 SWT 43	99 d8 9 .+ µs 9 	RBW 200 kH VBW 1 MH IMH IMH IMH IMH IMH IMH IMH IMH IMH I	z Mode M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FFT [1] [1] [1]		5.18 5.20	19.26 dBm 88400 GHz 6.75 dBm 12400 GHz 999 - 400 GHz 40.0 MHz

Report No.: SZ1240308-11533E-RF-00C

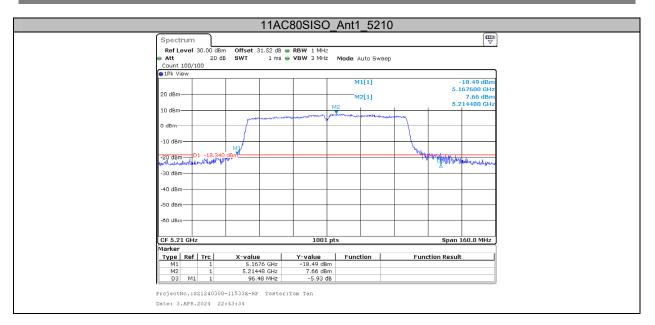


TR-EM-RF015



Report No.: SZ1240308-11533E-RF-00C



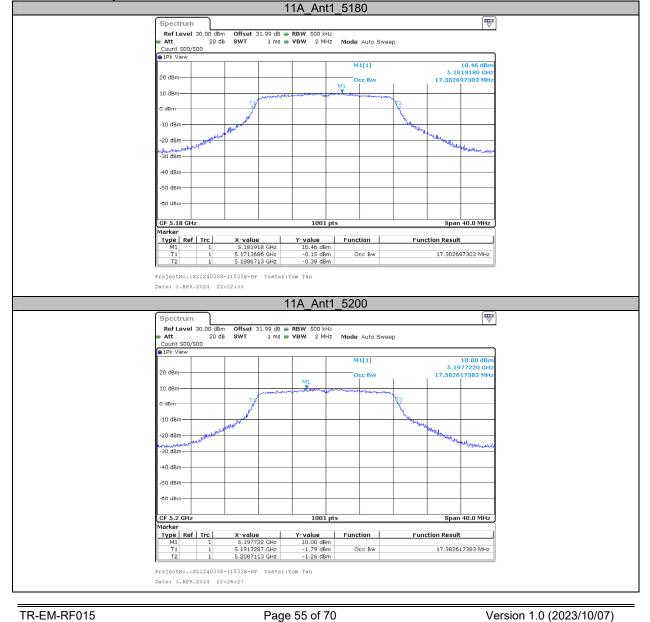


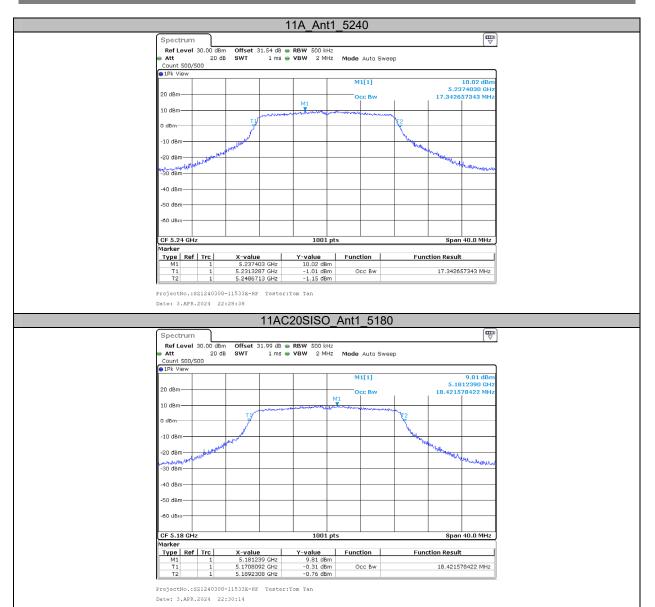
Appendix A2: Occupied Channel Bandwidth

Test Result

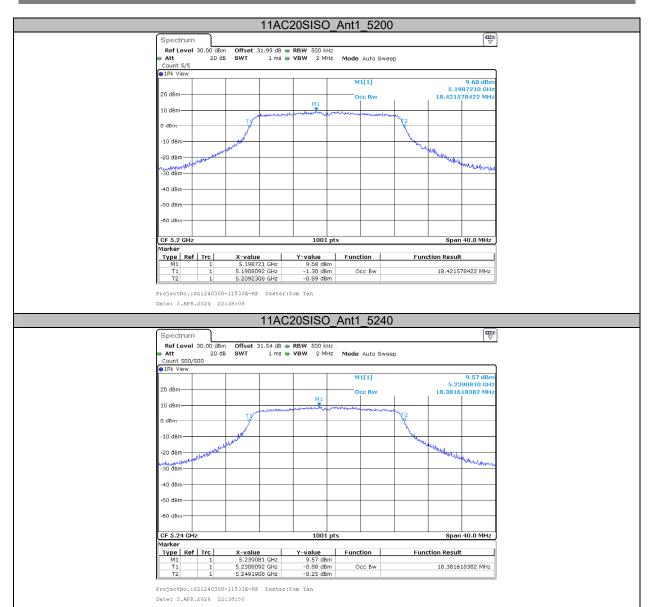
Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
		5180	17.303		
11A	Ant1	5200	17.383		
		5240	17.343		
		5180	18.422		
11AC20SISO	Ant1	5200	18.422		
		5240	18.382		
11AC40SISO	Ant1	5190	36.763		
TIAC403130	Ann	5230	36.603		
11AC80SISO	Ant1	5210	76.563		
Note: No transmitt	ed signal in the 9	9% bandwidth ext	ends into the U-NII-2A band an	d U-NII-2C band.	

Test Graphs

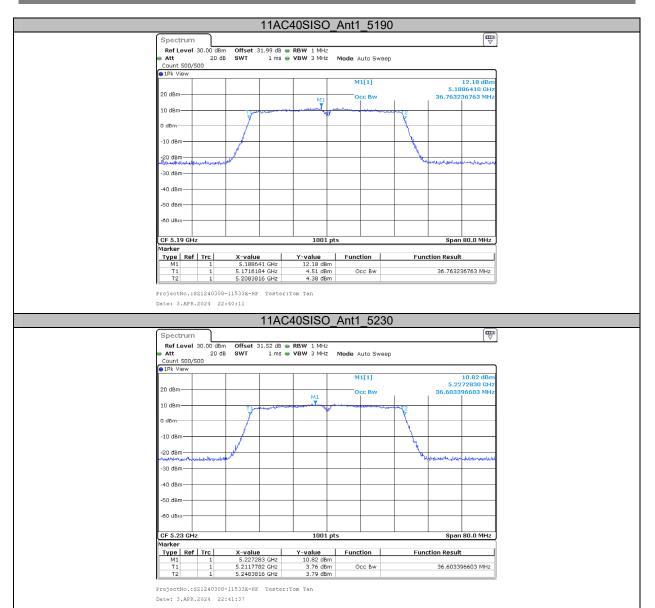




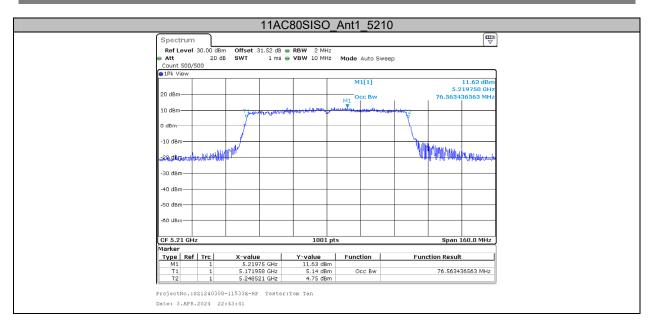
Report No.: SZ1240308-11533E-RF-00C



Report No.: SZ1240308-11533E-RF-00C



Report No.: SZ1240308-11533E-RF-00C



Appendix B: Maximum Conducted Output AV Power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		5180	15.95	≤23.98	PASS
11A	Ant1	5200	15.46	≤23.98	PASS
		5240	15.21	≤23.98	PASS
		5180	15.59	≤23.98	PASS
11AC20SISO	Ant1	5200	15.33	≤23.98	PASS
		5240	15.01	≤23.98	PASS
11AC40SISO	Ant1	5190	16.31	≤23.98	PASS
TIAC405150	Anti	5230	15.78	≤23.98	PASS
11AC80SISO	Ant1	5210	15.46	≤23.98	PASS
Note: The EUT is a	a client device.				

Appendix C: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
		5180	5.23	≤11.00	PASS
11A	Ant1	5200	4.60	≤11.00	PASS
		5240	4.66	≤11.00	PASS
		5180	4.63	≤11.00	PASS
11AC20SISO	Ant1	5200	4.43	≤11.00	PASS
		5240	4.06	≤11.00	PASS
4440400100	A == 14	5190	2.44	≤11.00	PASS
11AC40SISO	Ant1	5230	1.84	≤11.00	PASS
11AC80SISO	Ant1	5210	-1.67	≤11.00	PASS
Note:	ant davias		·		

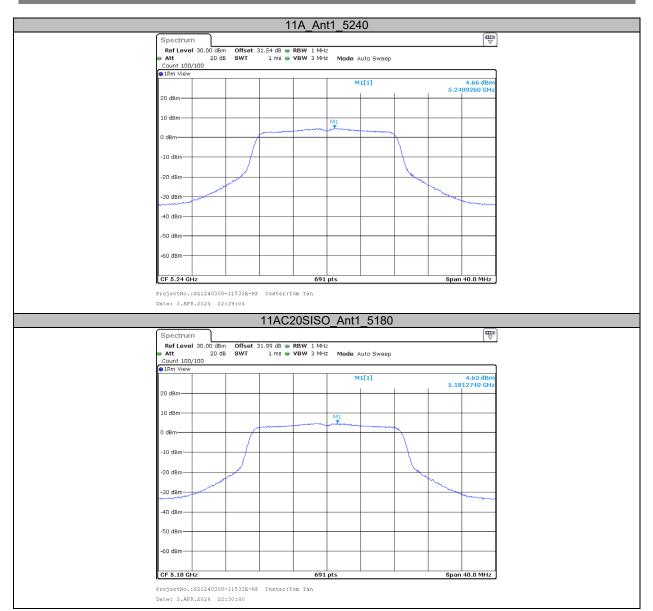
1. The EUT is a client device.

2. KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

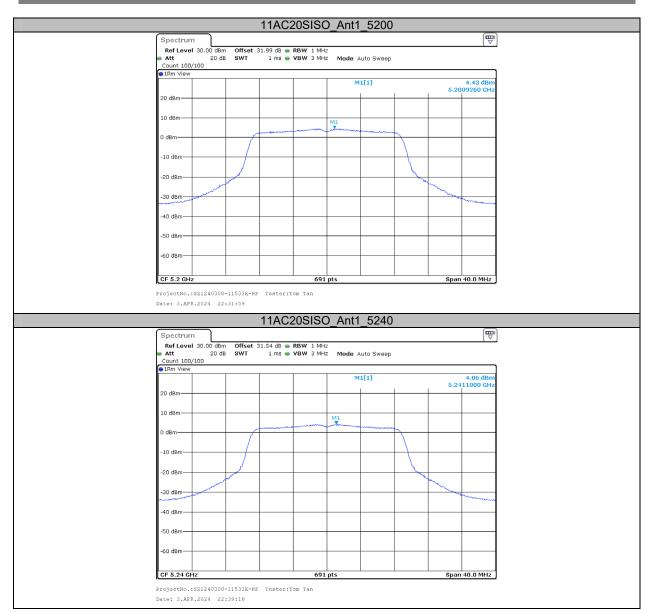
Test Graphs

			1	1A_An	t1 518	30			
Spectrun	n				_				
Ref Leve	1 30.00 dBm	Offset	31.99 dB 👄	RBW 1 MH	2				(.)
 Att Count 100, 	20 dE /100	SWT	1 ms 👄	VBW З МН2	: Mode	Auto Sweep			
●1Rm View				,					
					•	11[1]		5,18	5.23 dBm 12160 GHz
20 dBm									
10 dBm					M1	+			
0. d0 m					Tur	-			
0 dBm							/		
-10 dBm		- /							
-20 dBm		and the second		+		+			
	R. Marrie	ſ							
-30 dBm	and the second							~~~	
-40 dBm									
-50 dBm									
-60 dBm									
CF 5.18 G	HZ			691	pts			Span	40.0 MHz
	_		I	1A_An	1_52	JU			
Spectrun	n								
D-61	1 30.00 dBm								
			31.99 dB 👄	RBW 1 MHa	Mode	tute Cueen			(∨)
 Att Count 100, 	20 dE /100	Offset : SWT	31.99 dB 👄 1 ms 👄	RBW 1 MH2 VBW 3 MH2	2 Mode	Auto Sweep			
👄 Att	20 dE /100		31.99 dB 🖷 1 ms 🖶	RBW 1 MHz VBW 3 MHz	Mode				
 Att Count 100, 	20 dE /100		31.99 dB 👄 1 ms 👄	RBW 1 MHa VBW 3 MHa	Mode	Auto Sweep		5.20	4.60 dBm 10420 GHz
 Att Count 100, 	20 dE /100		31.99 dB 👄 1 ms 👄	RBW 1 MHz VBW 3 MHz	Mode			5.20	4.60 dBm
 Att Count 100, 1Rm View 20 dBm— 	20 dE /100		31.99 dB	RBW 1 MH2 VBW 3 MH2	2 Mode			5.20	4.60 dBm
● Att Count 100, ●1Rm View	20 dE /100		31.99 dB 👄 1 ms 👄	RBW 1 MHz VBW 3 MHz	Mode			5.20	4.60 dBm
 Att Count 100, 1Rm View 20 dBm— 	20 dE /100		31.99 dB = 1 ms =	RBW 1 MHa VBW 3 MHa	2 Mode			5.20	4.60 dBm
 Att Count 100, 1Rm View 20 dBm 10 dBm 	20 dE /100		31.99 dB • 1 ms •	RBW 1 MHa VBW 3 MHa	2 Mode			5.20	4.60 dBm
 Att Count 100, 1Rm View 20 dBm 10 dBm 	20 dE /100		31.99 dB • 1 ms •	RBW 1 MHz VBW 3 MHz	2 Mode			5.20	4.60 dBm
Att Count 100, IRm View 20 dBm 10 dBm 0 dBm -10 dBm	20 dE /100		31.99 dB = 1 ms =	RBW 1 MHz VBW 3 MHz	2 Mode			5.20	4.60 dBm
Att Count 100, 1Rm View 20 dBm 10 dBm 0 dBm 0 dBm	20 dE /100		31.99 dB • 1 ms •	RBW 1 MHz VBW 3 MHz	2 Mode			5.20	4.60 dBm
Att Count 100, IRm View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm	20 dE /100		31.99 dB • 1 ms •	RBW 1 MH; VBW 3 MH;	2 Mode			5.20	4.60 dBm
Att Count 100, IRm View 20 dBm 10 dBm 0 dBm -10 dBm	20 dE /100		31.99 dB • 1 ms •	RBW 1 MH; VBW 3 MH;	2 Mode			5.20	4.60 dBm
Att Count 100, IRm View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm	20 dE /100		31.99 dB • 1 ms •	RBW 1 MH; VBW 3 MH;	2 Mode			5.20	4.60 dBm
Att Count 100 IRm View 20 dBm 10 dBm 0 dBm -20 dBm -20 dBm -40 dBm	20 dE /100		31.99 dB • 1 ms •	RBW 1 MH; VBW 3 MH;	2 Mode			5.20	4.60 dBm
Att Count 100, O IRm View 20 dBm- 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	20 dE /100		31.99 dB • 1 ms •	RBW 1 MH; VBW 3 MH;	2 Mode			5.20	4.60 dBm
Att Count 100, O dBm- O dBm	20 dE /100		11.99 dB • 1 ms •	RBW 1 MH: VBW 3 MH:	2 Mode			5.20	4.60 dBm
Att Count 100 IRm View 20 dBm 10 dBm 0 dBm -20 dBm -20 dBm -40 dBm	20 dE /100		1.99 dB • 1 ms •	RBW 1 MH: VBW 3 MH:	2 Mode			5.20	4.60 dBm
Att Count 100 ●1Rm View 20 dBm 10 dBm 10 dBm20 dBm20 dBm30 dBm50 dBm50 dBm50 dBm50 dBm50 dBm50 dBm	20 dt		1.99 dB • 1 ms •		M1				4.60 dBm 10420 GHz
Att CCount 100 ●1Rm View 20 dBm 10 dBm 10 dBm 10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm	20 dt	3 SWT	1 ms	VBW 3 MH3	M1				4.60 dBm
Att Count 100 ●1Rm View 20 dBm 10 dBm 10 dBm20 dBm20 dBm30 dBm50 dBm50 dBm50 dBm50 dBm50 dBm50 dBm	20 de /100	-11533E-RF	1 ms	VBW 3 MH3	M1				4.60 dBm 10420 GHz

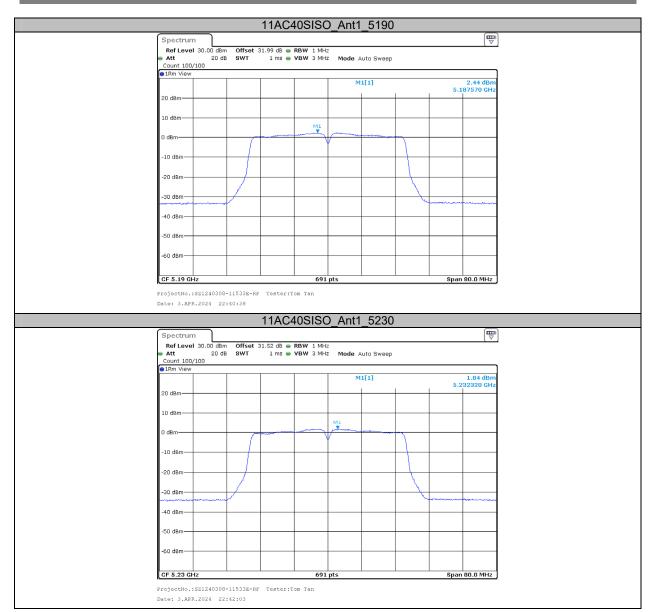
Report No.: SZ1240308-11533E-RF-00C



Report No.: SZ1240308-11533E-RF-00C



Report No.: SZ1240308-11533E-RF-00C



Report No.: SZ1240308-11533E-RF-00C



Report No.: SZ1240308-11533E-RF-00C

Appendix D: Duty Cycle

Test Result

Test Re	sult						
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Hz	VBW Setting Hz
		5180	100.00	100.00	100.00	/	10
11A	Ant1	5200	100.00	100.00	100.00	/	10
		5240	100.00	100.00	100.00	/	10
		5180	100.00	100.00	100.00	/	10
11AC20SISO	Ant1	5200	100.00	100.00	100.00	/	10
		5240	100.00	100.00	100.00	/	10
11AC40SISO	Ant1	5190	100.00	100.00	100.00	/	10
11AC403130	AIILI	5230	100.00	100.00	100.00	/	10
11AC80SISO	Ant1	5210	100.00	100.00	100.00	/	10

Test Graphs

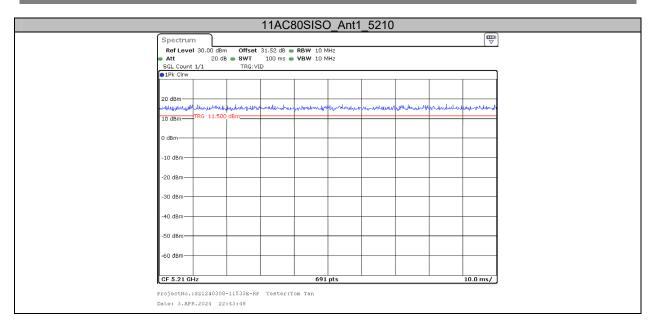
		IIA_F	Ant1_5180		
Spectrum					
Ref Level 3 Att	10.00 dBm Offset 20 dB SWT	31.99 dB RBW 1 100 ms VBW 1		, <u> </u>	
SGL Count 1/					
1Pk Clrw					
28 dBm	G 14.700 dBm		an a	 	
10 dBm	IG 14.700 UBIII				
0 dBm					
-10 dBm				 	
-20 dBm					
-30 dBm				 	
-40 dBm					
-50 dBm				 	
-60 dBm					
CF 5.18 GHz	1240308-11533E-RF		591 pts	10.0 ms/	
Spectrum		11A_/	Ant1_5200	m	
Spectrum Ref Level 3		31.99 dB 👄 RBW 1	LO MHz		
Ref Level 3 Att	20 dB 😑 SWT	31.99 dB • RBW 1 100 ms • VBW 1	LO MHz	(The second seco	
Ref Level 3	20 dB 😑 SWT	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ 1Pk Clrw	20 dB 😑 SWT	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ PIPk Clrw -30.dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ PIPk Clrw -30.dBm	20 dB 😑 SWT	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ P1Pk. Cinw 20. dBm TR 10 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ PIPk Cirw -20.dBm- TR	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ P1Pk. Cinw 20. dBm TR 10 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 • Att SGL Count 1/ • 1Pk. Cinw 20. dBm 10 dBm -10 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ 91Pk Cirw 20 d8m 10 d8m 0 d8m	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 • Att SGL Count 1/ • 1Pk. Cinw 20. dBm 10 dBm -10 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 • Att SGL Count 1/ • 1Pk Cinw 20. dBm 10 dBm -10 dBm -20 dBm -30 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ IPk Cirw 20 dBm 10 dBm -10 dBm -20 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 • Att SGL Count 1/ • 1Pk Cinw 20. dBm 10 dBm -10 dBm -20 dBm -30 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ 91Pk Cirw 20 dBm 10 dBm -10 dBm -30 dBm -30 dBm -50 dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ IPk. Cirw 20. dBm 10. dBm -10. dBm -20. dBm -30. dBm -40. dBm	20 dB • SWT '1 TRG: V:	31.99 dB • RBW 1 100 ms • VBW 1	.0 MHz		
Ref Level 3 Att SGL Count 1/ SIR 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20 dB • SWT '1 TRG: V:	31.99 dB RBW 1 100 ms VBW 1 0	0 MHz 0 MHz		
Ref Level 3 Att SGL Count 1/ IPk Cirw 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.2 GHz	20 dB • SWT 1 TRG:V. IG 14.200 dBm	31.99 dB RBW 1 100 ms VBW 1 0	.0 MHz		
Ref Level 3 Att SGL Count 1/ SIP. Cirw 20. dBm. 10. dBm. -10. dBm. -20. dBm. -30. dBm. -40. dBm. -50. dBm. -60. dBm. -50. dBm. -50. dBm. -50. dBm.	20 dB • SWT '1 TRG: V:	31.99 dB RBW 1 100 ms VBW 1 0	0 MHz 0 MHz		
Ref Level 3 Att SGL Count 1/ SIP. Cirw 20. dBm. 10. dBm. -10. dBm. -20. dBm. -30. dBm. -40. dBm. -50. dBm. -60. dBm. -50. dBm. -50. dBm. -50. dBm.	20 dB • SWT 1 TRG:V. 6 14.200 dBm 2 1240308-11533E-RF	31.99 dB RBW 1 100 ms VBW 1 0	0 MHz 0 MHz		

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Spect			0.00							
e Att	evera	30.00 dBr 20 di	n Offsei BeSWT		RBW 10 VBW 10					
SGL Co	unt 1,		TRG: \							
●1Pk Cl	rw									
-20,d8m		وسيحادادوه							un and an	-
	TF	RG 13.900) dBm							
10 dBm										
0 dBm-										
-10 dBn										
-20 dBn	י ו -י									
-30 dBn										
-50 abii	'									
-40 dBn										
-50 dBn						+				
-60 dBn	<u>ו</u> וי					-				
CF 5.2	4 GHz				69	1 pts			10.0	ms/
Project Date: 3				F Tester:		O Ant	1 5180	1		
	APR					O_Ant	1_5180	1		
Date: 3 Spect Ref L	. APR . :	2024 22	1:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref Li Att	rum	2024 22 30.00 dBn 20 dB	n Offset 8 • SWT	11AC	205150	MHz	1_5180			
Date: 3 Spect Ref L	rum evel (2024 22 30.00 dBn 20 dB	1:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref Li SGL Co	rum evel (2024 22 30.00 dBn 20 dB	n Offset 8 • SWT	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L • Att SGL Co • 1Pk Cl	rum evel (junt 1) rw	2024 22 30.00 dBn 20 dB	n Offset 8 • SWT	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref Li SGL Co	rum evel :	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L • Att SGL Co • 1Pk Cl	rum evel (punt 1) rw	2024 22 30.00 dBn 20 dB	:28:46	11AC	20SIS	MHz	1_5180	, , , , , , , , , , , , , , , , , , , ,		(₩
Date: 3 Spect Ref L • Att SGL Cc • 1Pk Cl • 20-dBm 10 dBm	rum evel (punt 1) rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			Ţ Ţ
Date: 3 Spect Ref L • Att SGL Cc • 1Pk Cl -20-d8m	rum evel (punt 1) rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			(
Date: 3 Spect Ref L • Att SGL Cc • 1Pk Cl • 20 dBm 10 dBm 0 dBm-	rum evel : junt 1, rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L • Att SGL Cc • 1Pk Cl • 20-dBm 10 dBm	rum evel : junt 1, rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L Att SGL CC IPk Cl -20 dBm 10 dBm -10 dBm	rum evel (iunt 1, rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L • Att SGL Cc • 1Pk Cl • 20 dBm 10 dBm 0 dBm-	rum evel (iunt 1, rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L Att SGL CC IPk Cl -20 dBm 10 dBm -10 dBm	rum evel : rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz				
Date: 3 Spect Ref L Att SGL CC IPk Cl 20-dBm 10 dBm -10 dBm -20 dBm -30 dBm	rum evel :	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L Att SGL Cc IPk Cl IO dBm -10 dBm -20 dBm	rum evel :	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz	1_5180			
Date: 3 Spect Ref L Att SGL CC 1Pk Cl -20 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum evel : rw TF	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz				
Date: 3 Spect Ref L Att SGL CC IPk Cl 20-dBm 10 dBm -10 dBm -20 dBm -30 dBm	rum evel : rw TF	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz				
Date: 3 Spect Ref L SGLCC 1Pk Cl 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	rum evel : rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz				
Date: 3 Spect Ref L Att SGL CC 1Pk Cl -20 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum evel : rw	2024 22 30.00 dBr 20 dl /1	:28:46	11AC	20SIS	MHz				
Date: 3 Spect Ref L SGLCC 1Pk Cl 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	rum evel (junt 1), TF	2024 22 30.00 dBr 20 dl 20 dl 30.00 dBr 20 dl 30.00 dBr 20 dl 20 d	:28:46	11AC	20SIS(RBW 10 VBW 10	MHz				

11AC20SISO Ant1 5200	
Spectrum	
Ref Level 30.00 dBm Offset 31.99 dB	
Att 20 dB ● SWT 100 ms ● VBW 10 MHz	
SGL Count 1/1 TRG: VID TRG: VID	
TRG 14.100 dBm 10 dBm	
0 dBm	
-10 dBm-	
-10 dBm	
-20 dBm	
-30 dBm	
-40 dBm	
-50 d8m	
-60 dBm	
CF 5.2 GHz 691 pts 10.0 ms/	
ProjectNo.:SZ1240308-11533E-RF Tester:Tom Tan	
Date: 3.APR.2024 22:31:40	
11AC20SISO_Ant1_5240	
Spectrum 🕎	
Spectrum RefLevel 30.00 dBm Offset 31.54 dB ● RBW 10 MHz	
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Spectrum ♥ Ref Level 30.00 dBm Offset 31.54 dB ● RBW 10 MHz Att 20 dB ● SWT 100 ms ● VBW 10 MHz	
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Spectrum Image: Spectrum Ref Level 30.00 dBm Offset 31.54 dB @ RBW 10 MHz Att 20 dB @ SWT 100 ms @ VBW 10 MHz SGL count 1/1 TRG: VID 91Pk Cirw 10 dBm 10 dBm	
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Spectrum Image: Spectrum Ref Level 30.00 dbm Offset 31.54 db RBW 10 MHz Att 20 db SGL Count 1/1 TRG: VID SGL Count 1/1 TRG: VID TRG: VID 1Pk Clrw Image: Spectrum Image: Spectrum 0 dbm Image: Spectrum Image: Spectrum 10 dbm Image: Spectrum Image: Spectrum -10 dbm Image: Spectrum Image: Spectrum -20 dbm Image: Spectrum Image: Spectrum -30 dbm Image: Spectrum Image: Spectrum	
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Spectrum Image: spectrum Ref Level 30.00 dbm Offset 31.54 db = RBW 10 MHz Att 20 db = SWT SGL Count 1/1 TRG: VID IPK Clrw Image: spectrum 20.dBm Image: spectrum 10 dbm Image: spectrum -0 dbm Image: spectrum -30 dbm Image: spectrum -30 dbm Image: spectrum	
Spectrum The level 30.00 dBm Offset 31.54 dB RBW 10 MHz Att 20 dB SGL Count 1/1 TRG: VID SGL Count 1/1 TRG: VID TRG: VID 1Pk Chw TRG: VID TRG: VID 0 dBm 0 0 10 dBm 0 0 -20 dBm 0 0 -30 dBm 0 0 -40 dBm 0 0	

11AC	C40SISO Ant1 5190	
Spectrum	///////////////////////////////////////	
Ref Level 30.00 dBm Offset 31.99 dB	RBW 10 MHz	
Att 20 dB SWT 100 ms	VBW 10 MHz	
SGL Count 1/1 TRG: VID 9 1Pk Clrw		
20 dBm	La la seguine de la companya de	
TRG 13.200 dBm		
10 dBm		
0 dBm		
-10 dBm		
20 d0m		
-20 dBm		
-30 dBm		
-40 dBm		
-50 dBm		
-60 dBm		
CF 5.19 GHz	691 pts	10.0 ms/
	C40SISO_Ant1_5230	
Spectrum		
Spectrum Ref Level 30.00 dBm Offset 31.52 dB		
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID	RBW 10 MHz	
Spectrum RefLevel 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms	RBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL count 1/1 TRG:VID TRG:VID IPk Clrw Interval Interval Interval	RBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID ● IPk Clrw 20 dBm 410 ms 20 dBm 410 ms 410 ms	RBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL count 1/1 TRG:VID TRG:VID 9 JPk Clrw 20 dBm 20 dBm 20 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID PIPk Clrw 20 dBm 100 dBm 100 dBm 10 dBm TRG 12.600 dBm 100 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID 9 TPK Clrw 20 dBm TGC 10 600 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID PIPk Clrw 20 dBm 100 dBm 100 dBm 10 dBm TRG 12.600 dBm 100 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID @1Pk Clrw 20 dBm 410 ms 100 ms 10 dBm TRG 12.600 dBm 410 ms 10 dBm TRG 12.600 dBm 410 ms -10 dBm -10 dBm 410 ms 410 ms	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Att 20 dB SGL Count 1/1 TRG:VID OTPK Clrw 20 dBm 10 dBm TRG 12.600 dBm 0 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID ●1Pk Clrw 20 dBm 100 ms 20 dBm 10 dBm 100 dBm 10 dBm TRG 12.600 dBm 10 dBm -10 dBm -20 dBm 10 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID @1Pk Clrw 20 dBm 410 ms 100 ms 10 dBm TRG 12.600 dBm 410 ms 10 dBm TRG 12.600 dBm 410 ms -10 dBm -10 dBm 410 ms 410 ms	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID ●1Pk Clrw 20 dBm 100 ms 20 dBm 10 dBm 100 dBm 10 dBm TRG 12.600 dBm 10 dBm -10 dBm -20 dBm 10 dBm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID ●1Pk Clrw 20 dBm 100 ms 20 dBm 100 ms 100 ms 10 dBm 100 ms 100 ms -10 dBm -20 dBm -10 dBm -30 dBm -40 dBm -10 ms	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dbm Offset 31.52 db SGL Count 1/1 TRG:VID IPk Cirw 20 dbm 20 dbm Jmm 10 dbm TRG 12.600 dbm 0 dbm	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID ●1Pk Clrw 20 dBm 100 ms 20 dBm 100 ms 100 ms 10 dBm 100 ms 100 ms -10 dBm -20 dBm -10 dBm -30 dBm -40 dBm -10 ms	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dbm Offset 31.52 db SGL Count 1/1 TRG: VID IPK Clrw Image: Clrw 20 dbm Image: Clrw 20 dbm Image: Clrw 10 dbm TRG 12.600 dbm 0 dbm Image: Clrw 20 dbm Image: Clrw 20 dbm Image: Clrw 10 dbm TRG 12.600 dbm 0 dbm Image: Clrw -10 dbm Image: Clrw -20 dbm Image: Clrw -30 dbm Image: Clrw -50 dbm Image: Clrw	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dbm Offset 31.52 db SGL Count 1/1 TRG: VID IPK Clrw Image: Clrw 20 dbm Image: Clrw 20 dbm Image: Clrw 10 dbm TRG 12.600 dbm 0 dbm Image: Clrw 20 dbm Image: Clrw 20 dbm Image: Clrw 10 dbm TRG 12.600 dbm 0 dbm Image: Clrw -10 dbm Image: Clrw -20 dbm Image: Clrw -30 dbm Image: Clrw -50 dbm Image: Clrw	RBW 10 MHz VBW 10 MHz	
Spectrum Ref Level 30.00 dBm Offset 31.52 dB Att 20 dB SWT 100 ms SGL Count 1/1 TRG:VID TRG:VID ● 1Pk Clrw 20 dBm 100 ms 20 dBm 100 ms 100 ms 20 dBm 100 ms 100 ms 10 dBm 100 ms 100 ms -10 dBm 100 ms 100 ms -20 dBm 100 ms 100 ms -30 dBm 100 ms 100 ms -60 dBm 100 ms 100 ms	RBW 10 MHz VBW 10 MHz	

Report No.: SZ1240308-11533E-RF-00C



***** END OF REPORT *****