

FCC PART 15.247

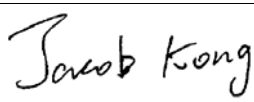
TEST REPORT

For

TECNO MOBILE LIMITED

FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET
FOTAN NT Hong Kong

FCC ID: 2ADYY-CH7N

Report Type: Original Report	Product Type: Mobile phone
Report Number: SZ1210720-30052E-RF-00B	
Report Date: 2021-08-13	
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Reviewed By: RF Engineer	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mobile Phone
Tested Model	CH7n
Frequency Range	BLE 1M/2M: 2402-2480MHz Wi-Fi: 2412-2472MHz/2422-2462MHz
Maximum Conducted Peak Power	BLE 1M: -1.69dBm, BLE 2M: -1.69dBm Wi-Fi: 16.89(802.11b), 14.77dBm(802.11g) 14.00dBm(802.11n-HT20), 12.94dBm(802.11n-HT40)
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	1.2dBi(It is provided by the applicant)
Voltage Range	DC 3.87V from battery or DC 5V/10V from adapter
Date of Test	2021-07-23 to 2021-08-10
Sample number	RF conducted: SZ1210720-30052E-RF-S1; RE&CE: SZ1210720-30052E-RF-S4 (Assigned by BACL, Shenzhen)
Received date	2021-07-20
Sample/EUT Status	Good condition
Adapter information	Model: U330TSA Input: AC 100-240V ~ 50/60Hz, 1.5A Output: DC 5.0V, 3.0A 15.0W or 10.0V, 3.3A 33.0W MAX

Objective

This report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

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 Bandwidth		±5%
RF Output Power with Power meter		±0.73dB
RF conducted test with spectrum		±1.6dB
AC Power Lines Conducted Emissions		±1.95dB
Emissions, Radiated	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB
Temperature		±1 °C
Humidity		±6%
Supply voltages		±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 test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	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	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 7 and 13.

For 802.11n-HT40 mode, 9 channels are provided to testing:

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

EUT was tested with Channel 1, 5 and 9.

For BLE mode, 40 channels are provided to testing:

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

EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Test in the engineer mode.

The device was tested with the worst case was performed as below:

Mode	Data rate	Power level*		
		Low channel	Middle channel	High channel
802.11b	1Mbps	16	14	15
802.11g	6Mbps	14	14	12
802.11n-HT20	MCS0	13	13	12
802.11n-HT40	MCS0	13	13	13
BLE	/	Default	Default	Default

The power level was provided by the applicant.

Duty cycle

Test Result Compliant. Please refer to the Appendix BLE & Appendix Wi-Fi.

Support Equipment List and Details

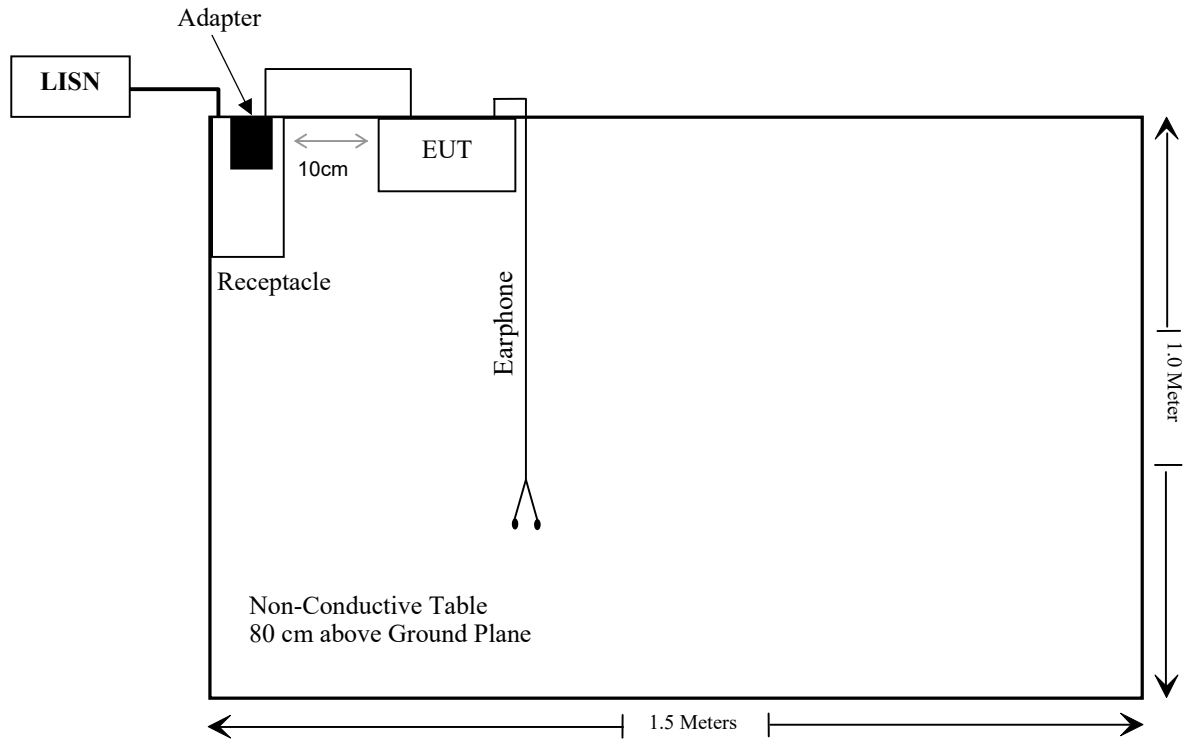
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-Shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2021/07/06	2022/07/05
Rohde & Schwarz	LISN	ENV216	101613	2021/07/06	2022/07/05
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2021/07/06	2022/07/05
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2020/11/29	2021/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2021/07/06	2022/07/05
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/28	2021/11/27
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28
SNSD	Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2021/04/20	2022/04/20
Ducommun Technologies	Horn antenna	ARH-4223-02	1007726-021304	2020/12/06	2023/12/05
RF Conducted Test					
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2021/07/06	2022/07/05
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2021/07/06	2022/07/05
Unknown	RF Cable	Unknown	#1	2020/11/29	2021/11/28

* **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).

FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency (MHz)	Max Tune-up Conducted Power (dBm)	Max Tune-up Conducted Power (mW)	Calculated Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2402-2480	-1.5	0.71	5	0.2	3.0	Yes

Result: No SAR test is required

For Wi-Fi mode:

Please refer to SAR report SZ1210720-30052E-SA.

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.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 1.2 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

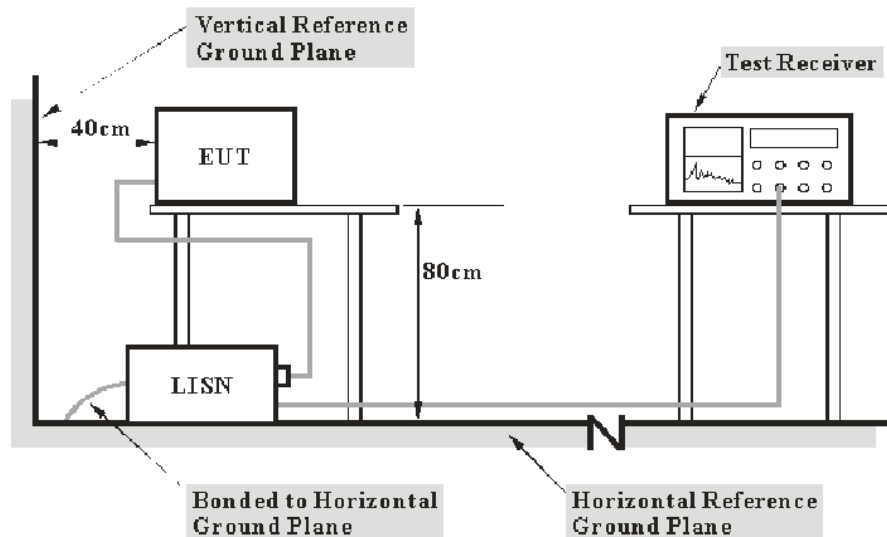
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
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 outlet of the LISN.

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

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

Corrected Factor & Margin Calculation

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

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

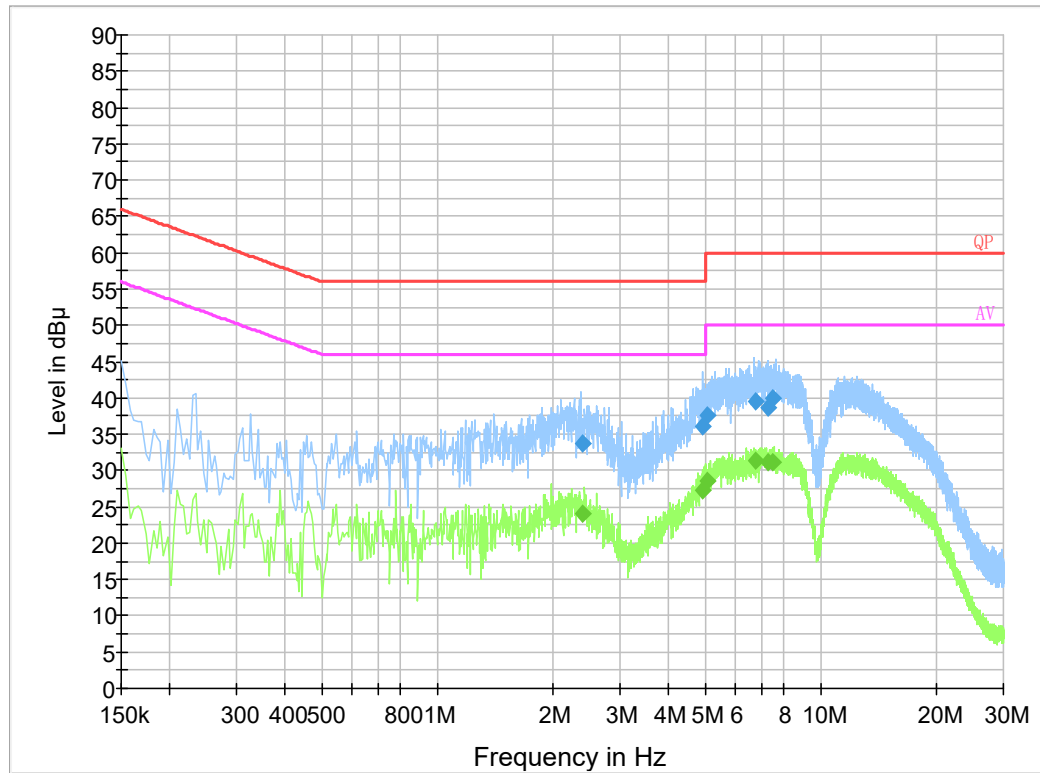
Test Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-07-24.

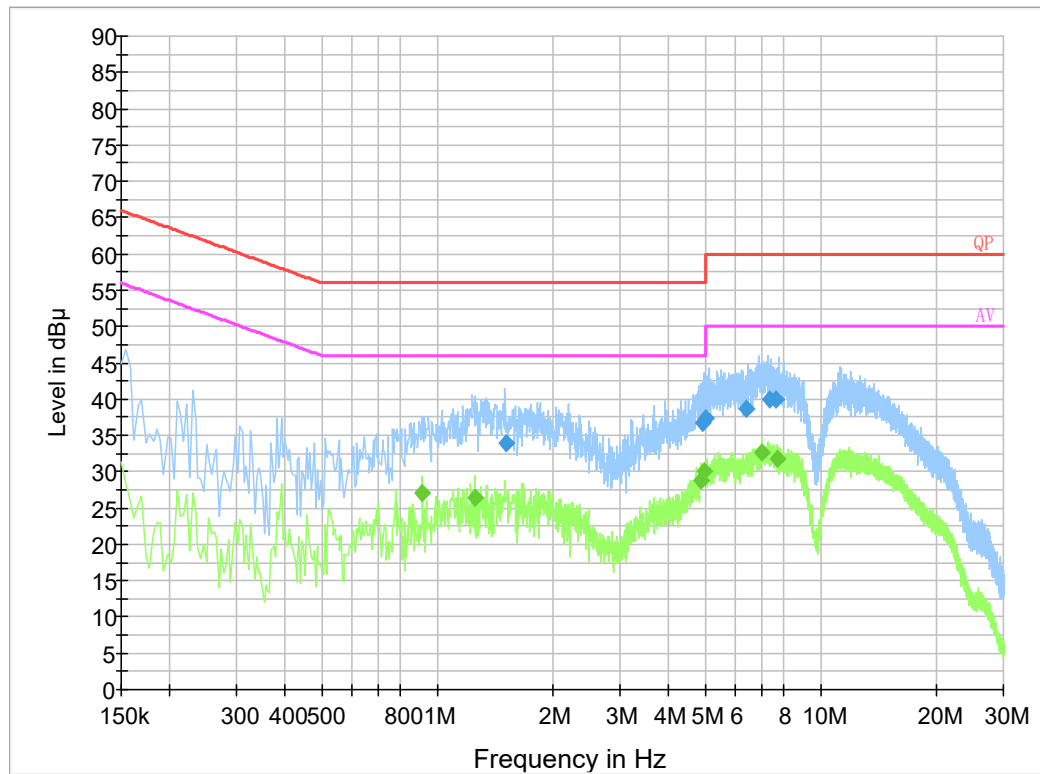
EUT operation mode: BT&Wi-Fi link

AC 120V/60 Hz, Line**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
2.405550	33.8	9.000	L1	19.8	22.2	56.0
4.903930	36.1	9.000	L1	19.9	19.9	56.0
5.064850	37.6	9.000	L1	19.9	22.4	60.0
6.777170	39.4	9.000	L1	19.9	20.6	60.0
7.272290	38.6	9.000	L1	19.9	21.4	60.0
7.515550	40.0	9.000	L1	19.9	20.0	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
2.405550	24.0	9.000	L1	19.8	22.0	46.0
4.903930	27.3	9.000	L1	19.9	18.7	46.0
5.064850	28.7	9.000	L1	19.9	21.3	50.0
6.777170	31.4	9.000	L1	19.9	18.6	50.0
7.272290	31.2	9.000	L1	19.9	18.8	50.0
7.515550	31.0	9.000	L1	19.9	19.0	50.0

AC 120V/60 Hz, Neutral**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
1.519410	33.9	9.000	N	19.8	22.1	56.0
4.907930	36.8	9.000	N	19.9	19.2	56.0
5.015690	37.3	9.000	N	19.9	22.7	60.0
6.388950	38.6	9.000	N	19.9	21.4	60.0
7.368950	40.0	9.000	N	19.9	20.0	60.0
7.645570	39.9	9.000	N	19.9	20.1	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.914000	27.0	9.000	N	19.7	19.0	46.0
1.254000	26.5	9.000	N	19.8	19.5	46.0
4.866000	28.8	9.000	N	19.9	17.2	46.0
4.978000	30.2	9.000	N	19.9	15.8	46.0
7.062000	32.6	9.000	N	19.9	17.4	50.0
7.734000	31.8	9.000	N	19.9	18.2	50.0

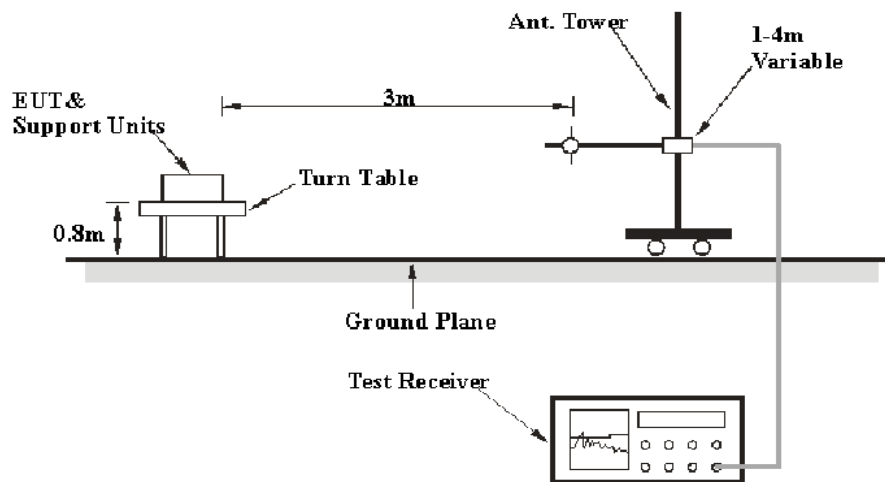
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

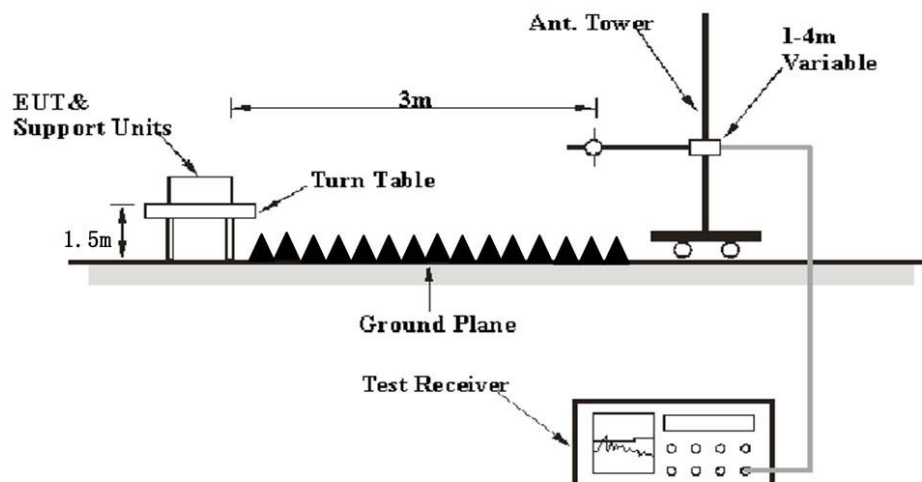
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



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

EMI Test Receiver & Spectrum Analyzer Setup

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	> 1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure

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

Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

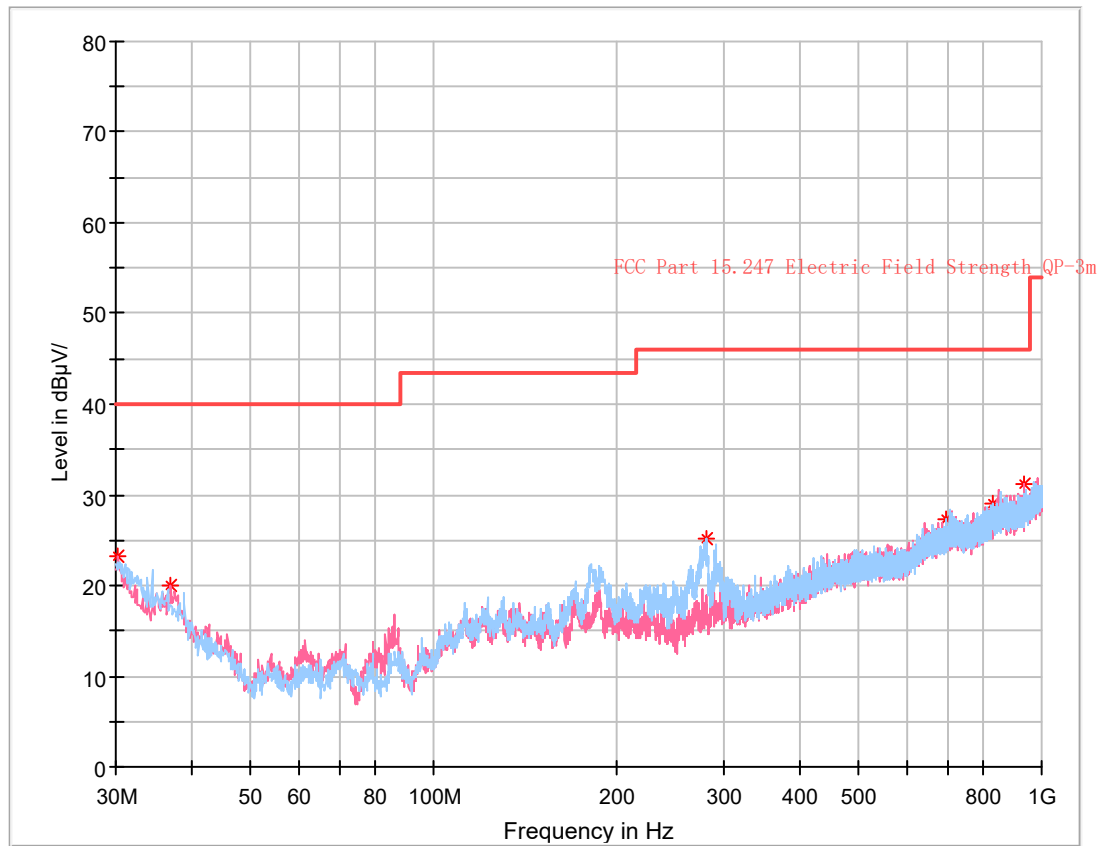
Test Data

Environmental Conditions

Temperature:	25.8~30 °C
Relative Humidity:	44~ 55 %
ATM Pressure:	101.0~101.2 kPa

The testing was performed by Williarm Wang on 2021-07-23 for below 1GHz and Hanic Pan on 2021-07-28 for above 1GHz.

EUT operation mode: Transmitting

30 MHz~1 GHz: (BT&Wi-Fi link)**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.242500	23.24	40.00	16.76	100.0	V	12.0	-3.7
36.911250	20.04	40.00	19.96	100.0	V	193.0	-8.5
280.381250	25.23	46.00	20.77	100.0	H	85.0	-10.7
696.996250	27.29	46.00	18.71	200.0	H	2.0	-1.6
829.158750	29.07	46.00	16.93	100.0	H	359.0	-0.1
938.768750	31.10	46.00	14.90	100.0	V	182.0	1.5

1 GHz-25 GHz (Wi-Fi):**802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2328.93	28.78	PK	300	2.2	V	31.64	60.42	74	13.58
2328.93	15.25	Ave.	300	2.2	V	31.64	46.89	54	7.11
2484.71	29.03	PK	68	1.8	V	32.13	61.16	74	12.84
2484.71	15.58	Ave.	68	1.8	V	32.13	47.71	54	6.29
4824.00	50.11	PK	260	2.4	V	6.28	56.39	74	17.61
4824.00	45.25	Ave.	260	2.4	V	6.28	51.53	54	2.47
Middle Channel (2442MHz)									
4884.00	49.96	PK	44	2.1	V	6.76	56.72	74	17.28
4884.00	45.11	Ave.	44	2.1	V	6.76	51.87	54	2.13
High Channel (2472 MHz)									
2314.80	28.97	PK	213	2.4	V	31.64	60.61	74	13.39
2314.80	15.38	Ave.	213	2.4	V	31.64	47.02	54	6.98
2485.13	30.09	PK	54	1.9	V	32.13	62.22	74	11.78
2485.13	17.7	Ave.	54	1.9	V	32.13	49.83	54	4.17
4944.00	50.46	PK	316	1.9	V	6.76	57.22	74	16.78
4944.00	45.7	Ave.	316	1.9	V	6.76	52.46	54	1.54

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2389.94	34.34	PK	280	1.7	V	31.87	66.21	74	7.79
2389.94	18.26	Ave.	280	1.7	V	31.87	50.13	54	3.87
2499.43	28.96	PK	11	1.8	V	32.13	61.09	74	12.91
2499.43	15.55	Ave.	11	1.8	V	32.13	47.68	54	6.32
4824.00	63.57	PK	62	2.2	V	6.28	69.85	74	4.15
4824.00	44.97	Ave.	62	2.2	V	6.28	51.25	54	2.75
Middle Channel (2442 MHz)									
4884.00	61.75	PK	57	1.4	V	6.76	68.51	74	5.49
4884.00	44.02	Ave.	57	1.4	V	6.76	50.78	54	3.22
High Channel (2472 MHz)									
2310.52	28.71	PK	211	2.1	V	31.64	60.35	74	13.65
2310.52	15.37	Ave.	211	2.1	V	31.64	47.01	54	6.99
2484.08	40.35	PK	204	1.5	V	32.13	72.48	74	1.52
2484.08	17.95	Ave.	204	1.5	V	32.13	50.08	54	3.92
4944.00	50.46	PK	316	1.9	V	6.76	57.22	74	16.78
4944.00	46.7	Ave.	316	1.9	V	6.76	51.46	54	2.54

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2389.94	39.35	PK	288	1.1	V	31.87	71.22	74	2.78
2389.94	19.61	Ave.	288	1.1	V	31.87	51.48	54	2.52
2487.18	29.29	PK	344	1.1	V	32.13	61.42	74	12.58
2487.18	15.34	Ave.	344	1.1	V	32.13	47.47	54	6.53
4824.00	55.71	PK	278	2.4	V	6.28	61.99	74	12.01
4824.00	38.97	Ave.	278	2.4	V	6.28	45.25	54	8.75
Middle Channel (2442 MHz)									
4884.00	57.12	PK	314	1.7	V	6.76	63.88	74	10.12
4884.00	38.92	Ave.	314	1.7	V	6.76	45.68	54	8.32
High Channel (2472 MHz)									
2315.52	28.87	PK	214	1.0	V	31.64	60.51	74	13.49
2315.52	15.16	Ave.	214	1.0	V	31.64	46.80	54	7.20
2483.98	37.51	PK	322	2.3	V	32.13	69.64	74	4.36
2483.98	20.32	Ave.	322	2.3	V	32.13	52.45	54	1.55
4944.00	57.36	PK	52	1.1	V	6.76	64.12	74	9.88
4944.00	38.06	Ave.	52	1.1	V	6.76	44.82	54	9.18

802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2422 MHz)									
2389.56	36.54	PK	21	2.0	V	31.87	68.41	74	5.59
2389.56	17.35	Ave.	21	2.0	V	31.87	49.22	54	4.78
2484.28	29.68	PK	148	2.3	V	32.13	61.81	74	12.19
2484.28	15.74	Ave.	148	2.3	V	32.13	47.87	54	6.13
4844.00	60.58	PK	60	2.2	V	6.28	66.86	74	7.14
4844.00	39.89	Ave.	60	2.2	V	6.28	46.17	54	7.83
Middle Channel (2442 MHz)									
4884.00	60.05	PK	151	2.3	V	6.76	66.81	74	7.19
4884.00	38.85	Ave.	151	2.3	V	6.76	45.61	54	8.39
High Channel (2462 MHz)									
2388.52	29.74	PK	265	1.2	V	31.87	61.61	74	12.39
2388.52	15.65	Ave.	265	1.2	V	31.87	47.52	54	6.48
2483.77	40.3	PK	154	2.3	V	32.13	72.43	74	1.57
2483.77	20.32	Ave.	154	2.3	V	32.13	52.45	54	1.55
4924.00	60.85	PK	93	1.0	V	6.76	67.61	74	6.39
4924.00	40.37	Ave.	93	1.0	V	6.76	47.13	54	6.87

1 GHz-25 GHz (BLE_1M):

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2402 MHz)									
2331.59	28.63	PK	45	1.8	V	31.64	60.27	74	13.73
2331.59	15.44	Ave.	45	1.8	V	31.64	47.08	54	6.92
2499.61	28.39	PK	144	2.3	V	32.13	60.52	74	13.48
2499.61	15.47	Ave.	144	2.3	V	32.13	47.60	54	6.40
4804.00	43.76	PK	96	2.0	V	6.28	50.04	74	23.96
4804.00	29.72	Ave.	96	2.0	V	6.28	36.00	54	18.00
Middle Channel (2440 MHz)									
4880.00	43.99	PK	109	2.0	V	6.76	50.75	74	23.25
4880.00	29.69	Ave.	109	2.0	V	6.76	36.45	54	17.55
High Channel (2480 MHz)									
2385.43	28.52	PK	227	1.5	V	31.87	60.39	74	13.61
2385.43	15.33	Ave.	227	1.5	V	31.87	47.20	54	6.80
2486.42	28.91	PK	13	2.3	V	32.13	61.04	74	12.96
2486.42	15.53	Ave.	13	2.3	V	32.13	47.66	54	6.34
4960.00	44.45	PK	181	2.4	V	6.80	51.25	74	22.75
4960.00	29.58	Ave.	181	2.4	V	6.80	36.38	54	17.62

1 GHz-25 GHz (BLE_2M):

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2402 MHz)									
2315.96	28.21	PK	75	1.8	V	31.64	59.85	74	14.15
2315.96	15.42	Ave.	75	1.8	V	31.64	47.06	54	6.94
2483.51	28.63	PK	71	2.1	V	32.13	60.76	74	13.24
2483.51	15.49	Ave.	71	2.1	V	32.13	47.62	54	6.38
4804.00	43.93	PK	137	1.9	V	6.28	50.21	74	23.79
4804.00	29.71	Ave.	137	1.9	V	6.28	35.99	54	18.01
Middle Channel (2440 MHz)									
4880.00	43.63	PK	360	1.8	V	6.76	50.39	74	23.61
4880.00	29.63	Ave.	360	1.8	V	6.76	36.39	54	17.61
High Channel (2480 MHz)									
2310.75	29.2	PK	105	1.8	V	31.64	60.84	74	13.16
2310.75	15.32	Ave.	105	1.8	V	31.64	46.96	54	7.04
2497.72	28.86	PK	52	1.3	V	32.13	60.99	74	13.01
2497.72	15.41	Ave.	52	1.3	V	32.13	47.54	54	6.46
4960.00	44.07	PK	295	2.0	V	6.80	50.87	74	23.13
4960.00	29.86	Ave.	295	2.0	V	6.80	36.66	54	17.34

Note:

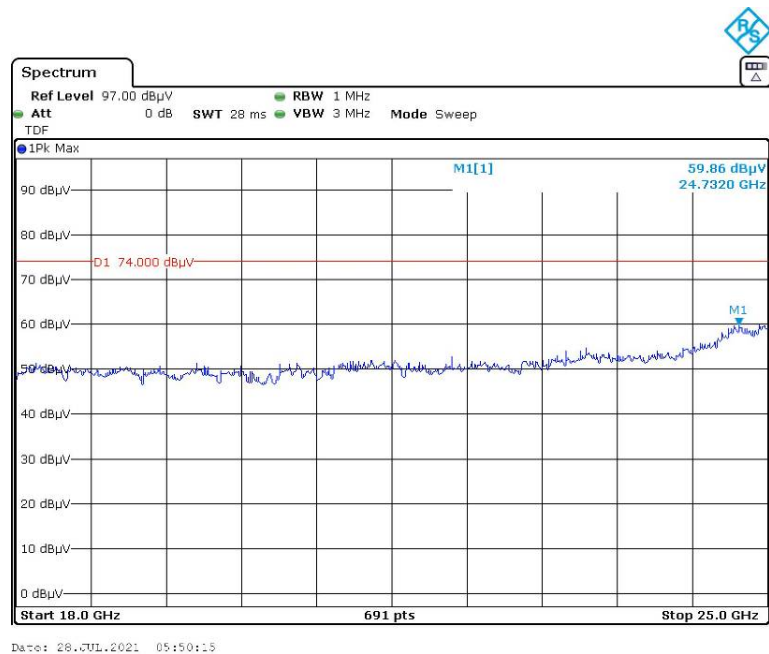
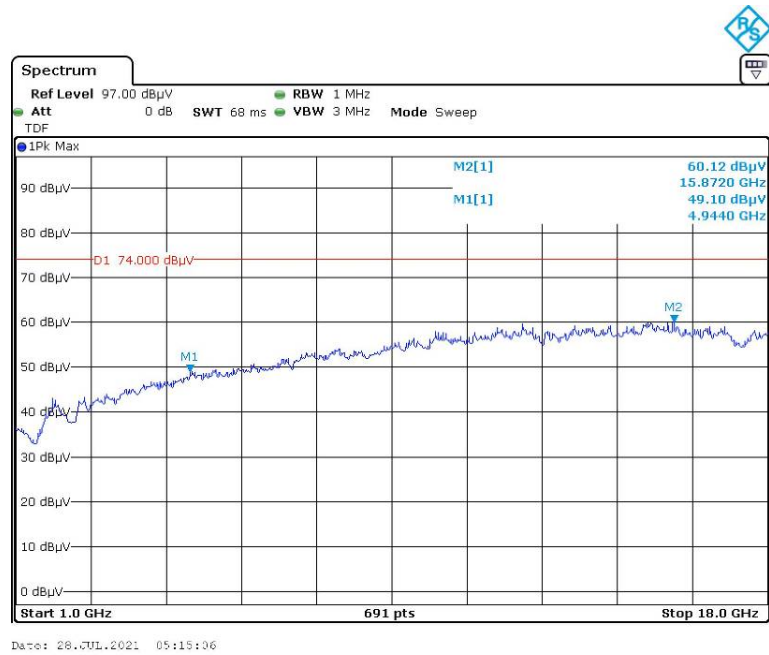
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

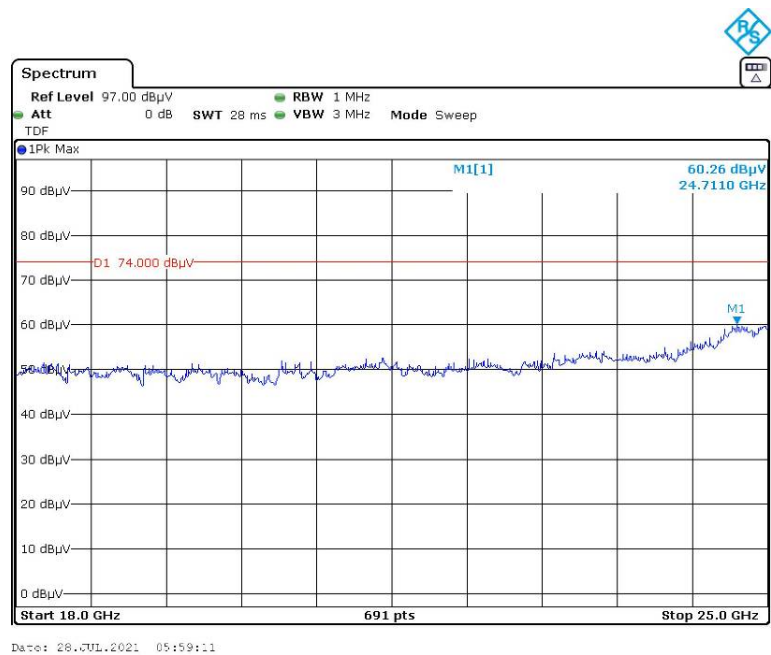
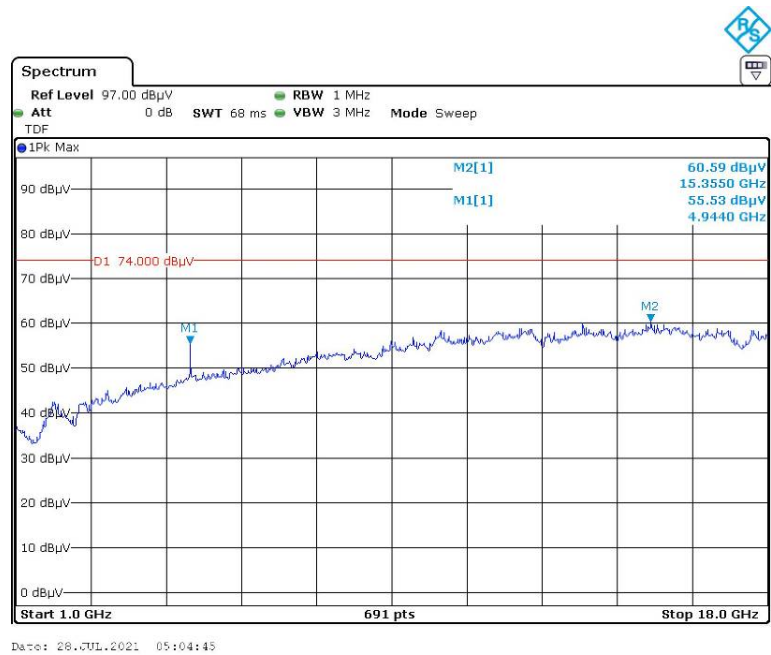
Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.

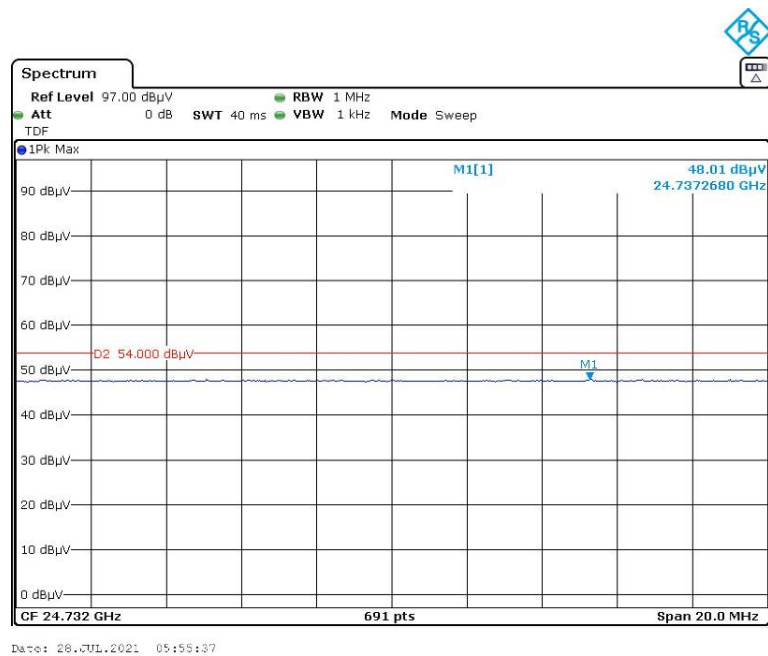
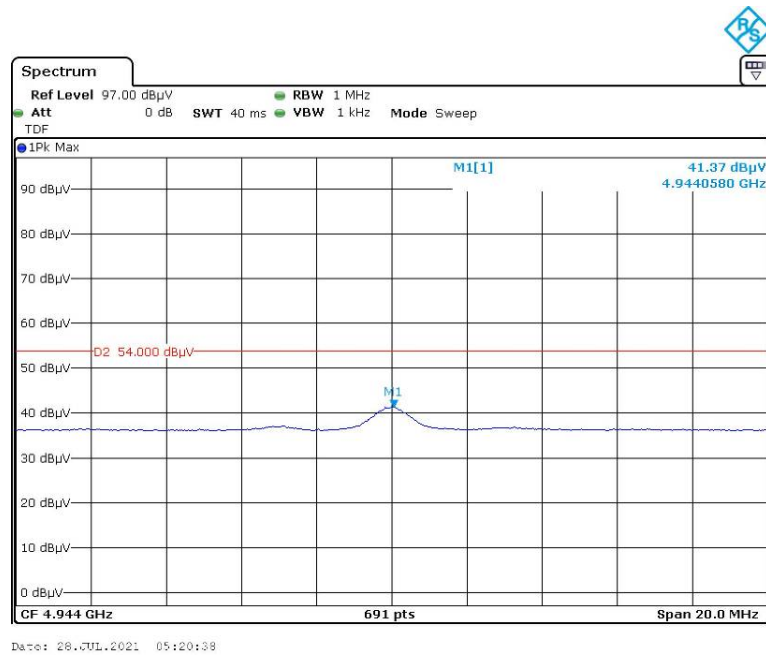
**Pre-scan with 802.11b Mode, high channel
Horizontal**



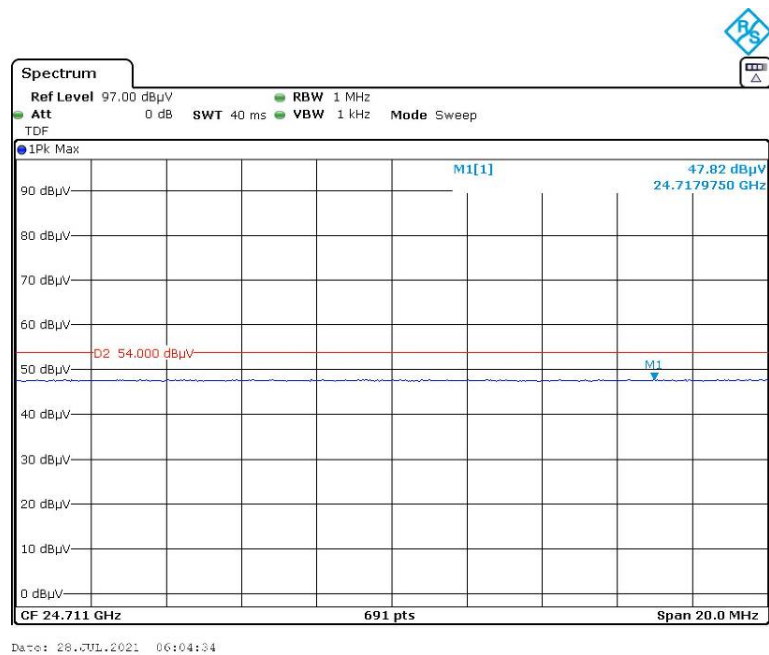
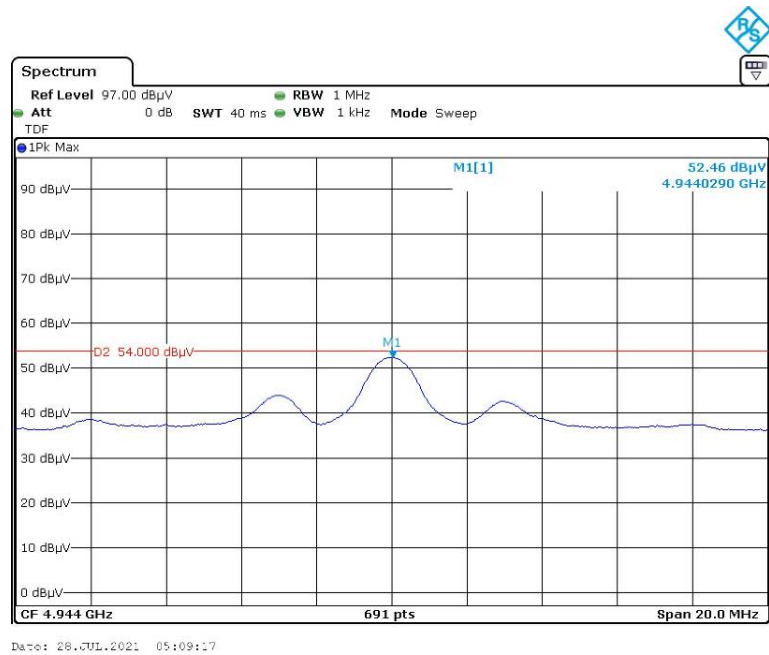
Vertical



Average Horizontal



Vertical



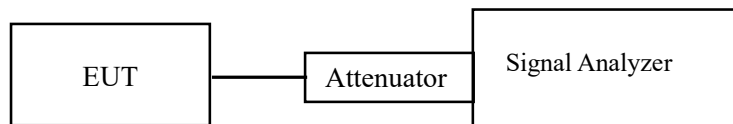
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

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

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	26~27 °C
Relative Humidity:	57~63 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-07-30 to 2021-08-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix BLE & Appendix Wi-Fi.

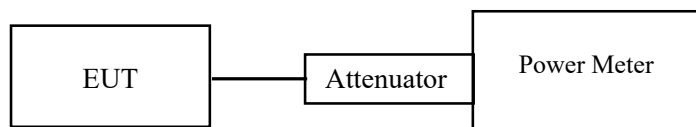
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

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

Test Procedure

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



Test Data

Environmental Conditions

Temperature:	26~27 °C
Relative Humidity:	57~63 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-07-30 to 2021-08-10.

EUT operation mode: Transmitting

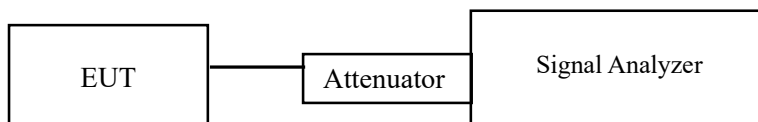
Test Result Compliant. Please refer to the Appendix BLE & Appendix Wi-Fi.

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

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

Test Procedure

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

**Test Data****Environmental Conditions**

Temperature:	26~27 °C
Relative Humidity:	57~63 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-07-30 to 2021-08-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix BLE & Appendix Wi-Fi.

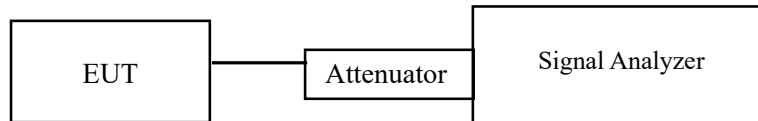
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	26~27 °C
Relative Humidity:	57~63 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao from 2021-07-30 to 2021-08-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix BLE & Appendix Wi-Fi.

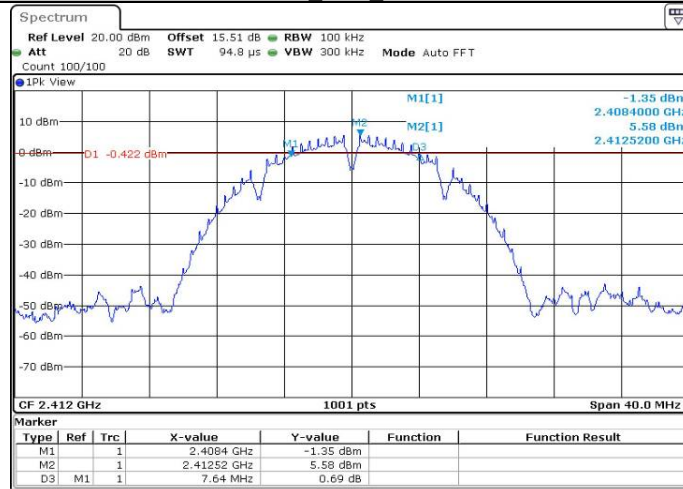
APPENDIX Wi-Fi

Appendix A: DTS Bandwidth Test Result

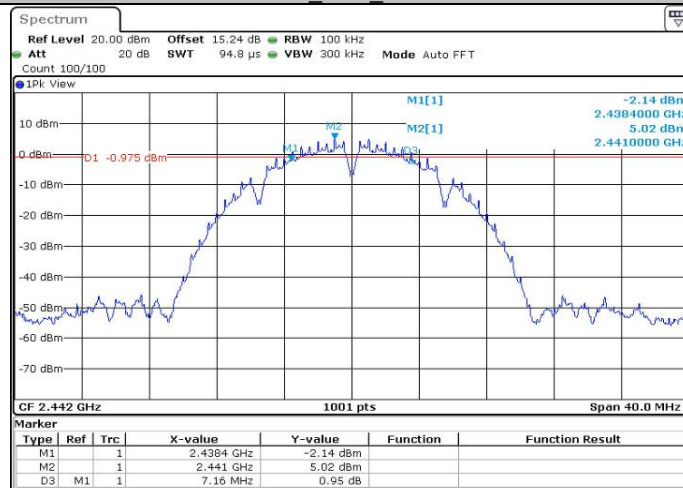
TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.640	0.5	PASS
		2442	7.160	0.5	PASS
		2472	7.200	0.5	PASS
11G	Ant1	2412	15.960	0.5	PASS
		2442	15.400	0.5	PASS
		2472	15.400	0.5	PASS
11N20SISO	Ant1	2412	15.200	0.5	PASS
		2442	15.160	0.5	PASS
		2472	15.200	0.5	PASS
11N40SISO	Ant1	2422	35.280	0.5	PASS
		2442	35.280	0.5	PASS
		2462	35.280	0.5	PASS

Test Graphs

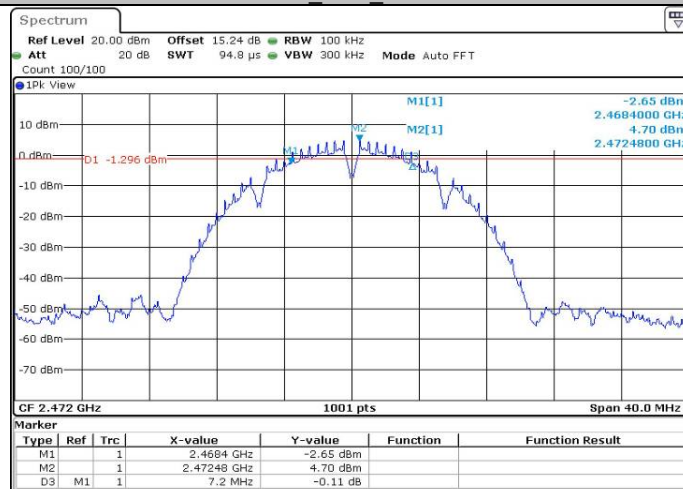
11B_Ant1_2412



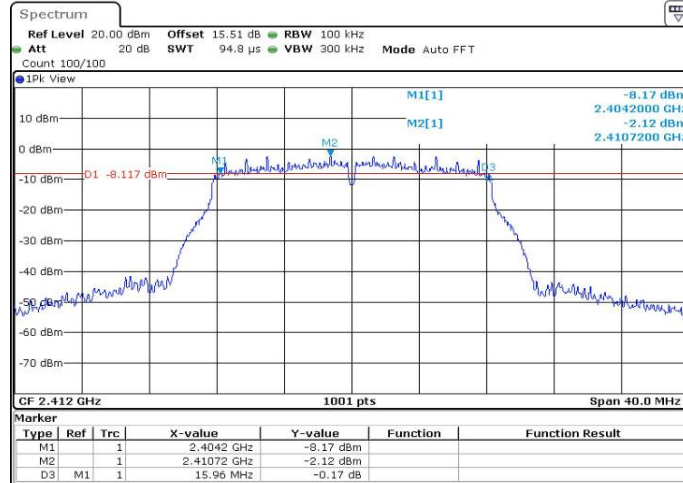
11B_Ant1_2442



11B_Ant1_2472

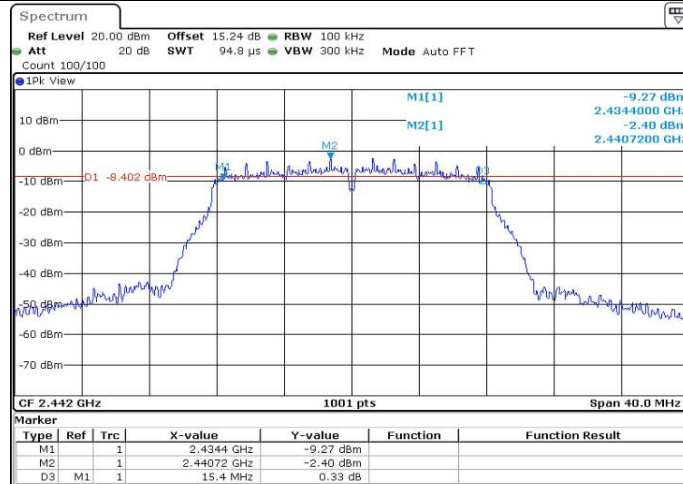


11G Ant1 2412



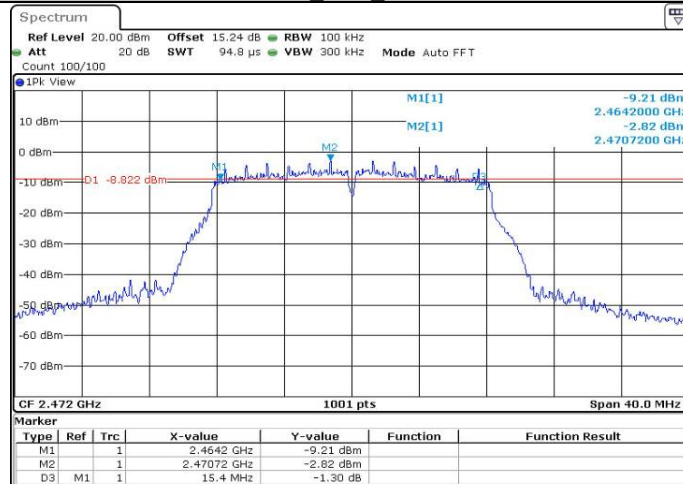
Date: 30.JUL.2021 22:40:26

11G Ant1 2442



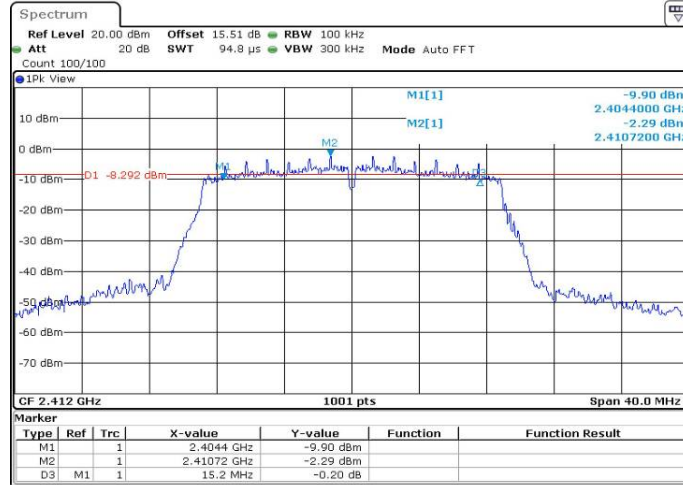
Date: 30.JUL.2021 22:45:51

11G Ant1 2472



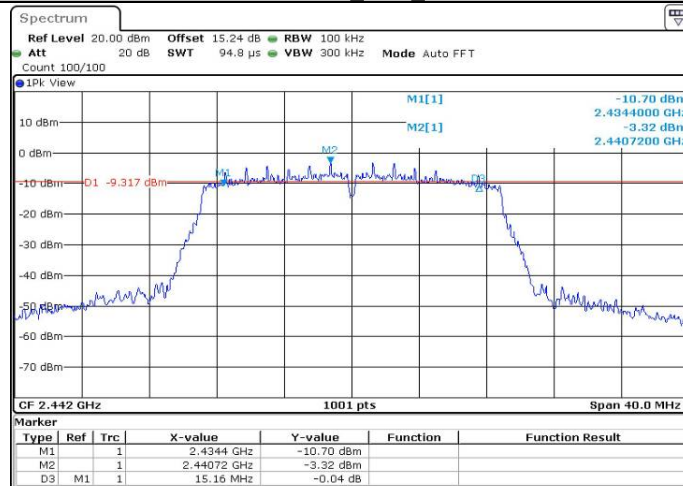
Date: 30.JUL.2021 22:44:18

11N20SISO Ant1 2412



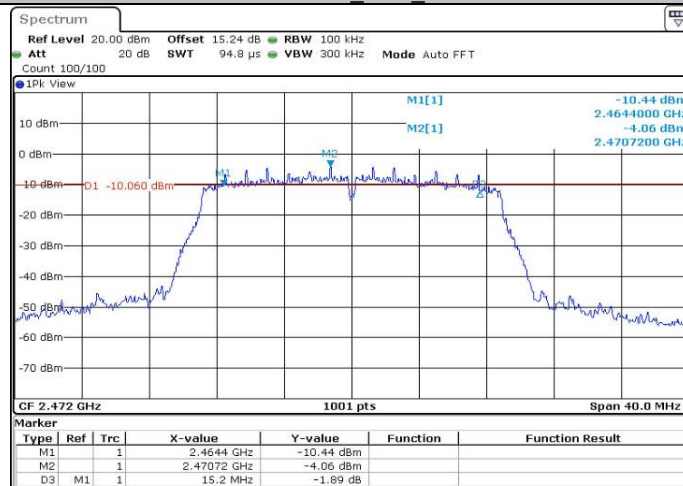
Date: 30.JUL.2021 22:50:36

11N20SISO Ant1 2442



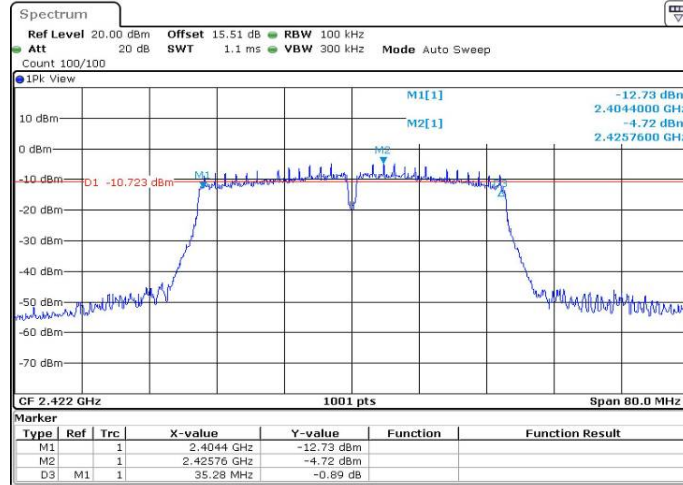
Date: 30.JUL.2021 22:52:03

11N20SISO Ant1 2472



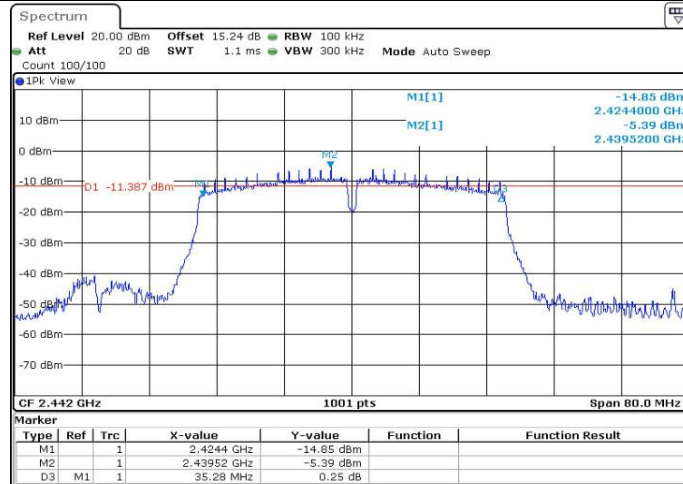
Date: 30.JUL.2021 22:54:49

11N40SiSO Ant1 2422



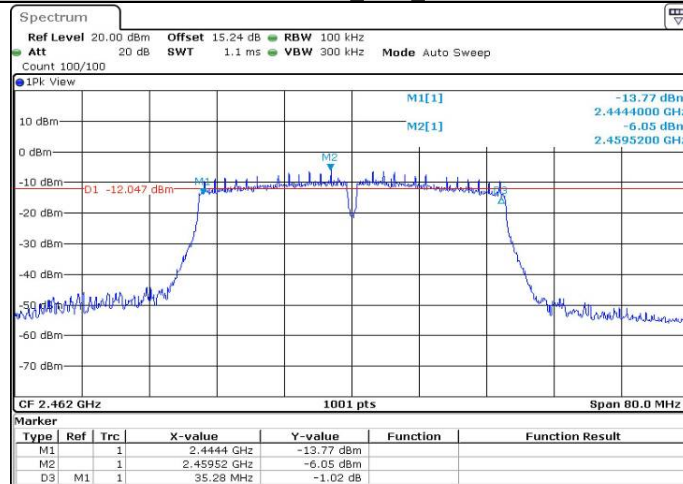
Date: 30.JUL.2021 22:56:34

11N40SiSO Ant1 2442



Date: 30.JUL.2021 22:58:03

11N40SiSO Ant1 2462

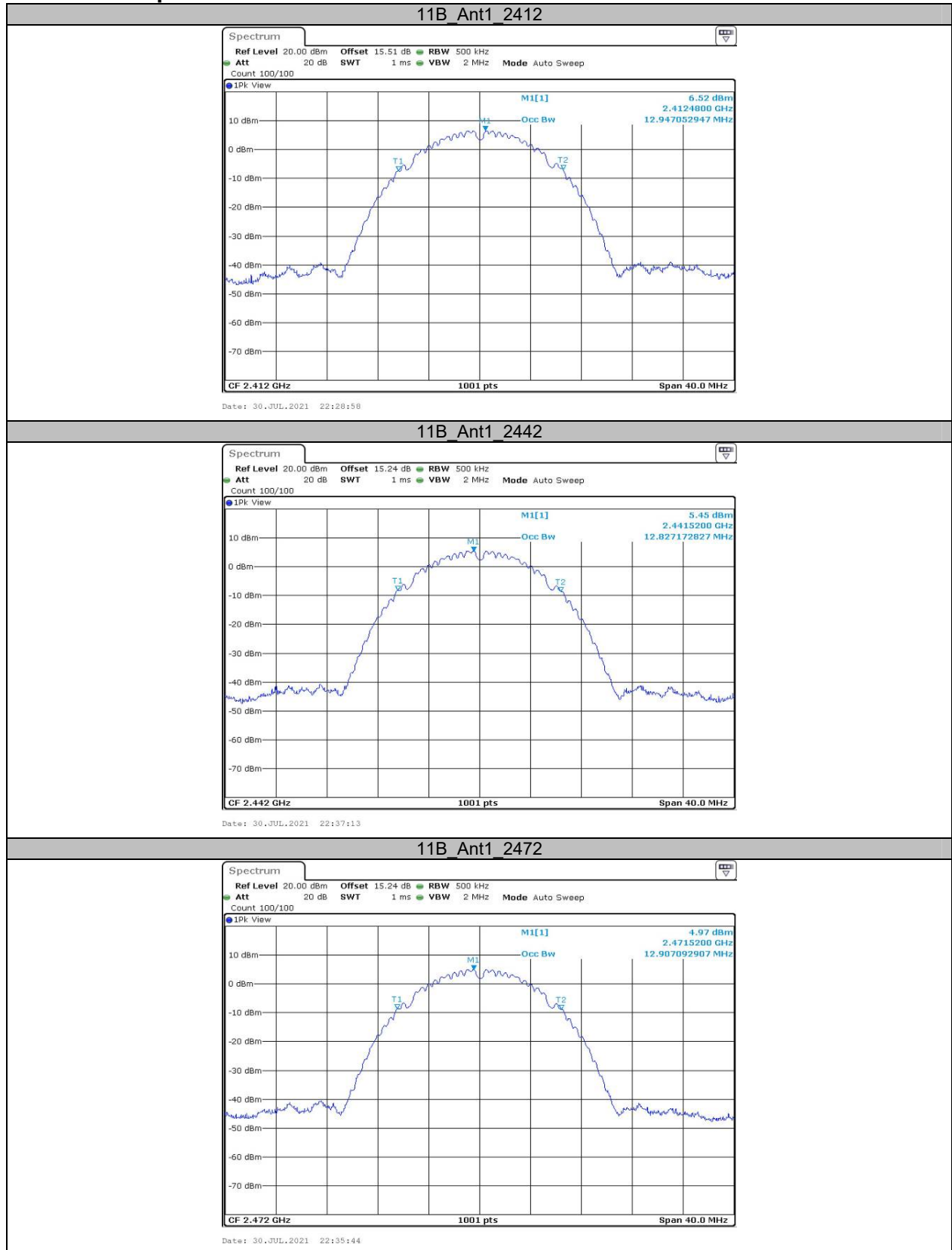


Date: 30.JUL.2021 22:59:17

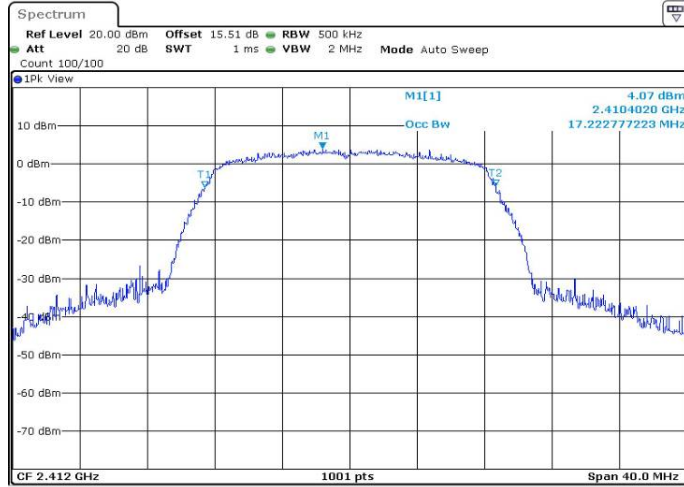
**Appendix B: Occupied Channel Bandwidth
Test Result**

TestMode	Antenna	Channel	OCB [MHz]	Verdict
11B	Ant1	2412	12.947	PASS
		2442	12.827	PASS
		2472	12.907	PASS
11G	Ant1	2412	17.223	PASS
		2442	17.223	PASS
		2472	17.263	PASS
11N20SISO	Ant1	2412	18.102	PASS
		2442	18.142	PASS
		2472	18.102	PASS
11N40SISO	Ant1	2422	36.603	PASS
		2442	36.364	PASS
		2462	36.683	PASS

Test Graphs

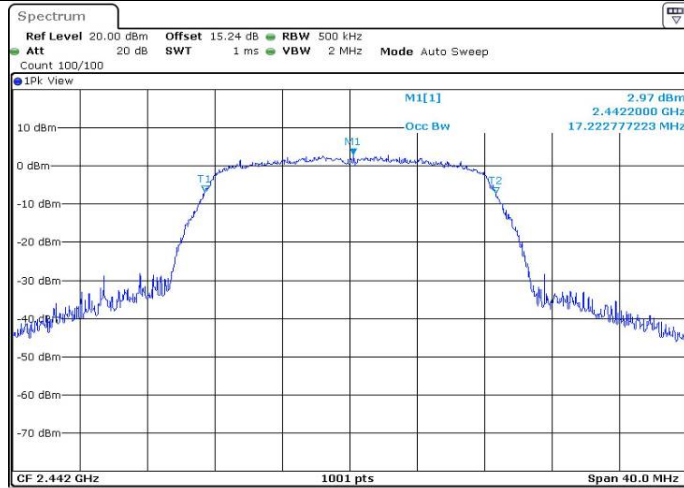


11G Ant1 2412



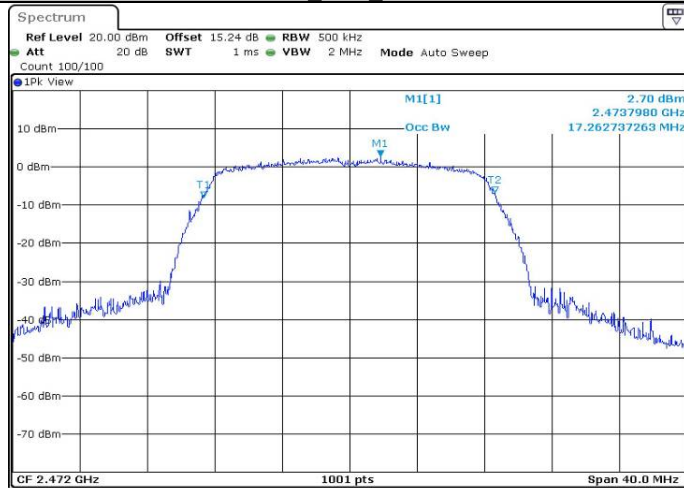
Date: 30.JUL.2021 22:40:36

11G Ant1 2442

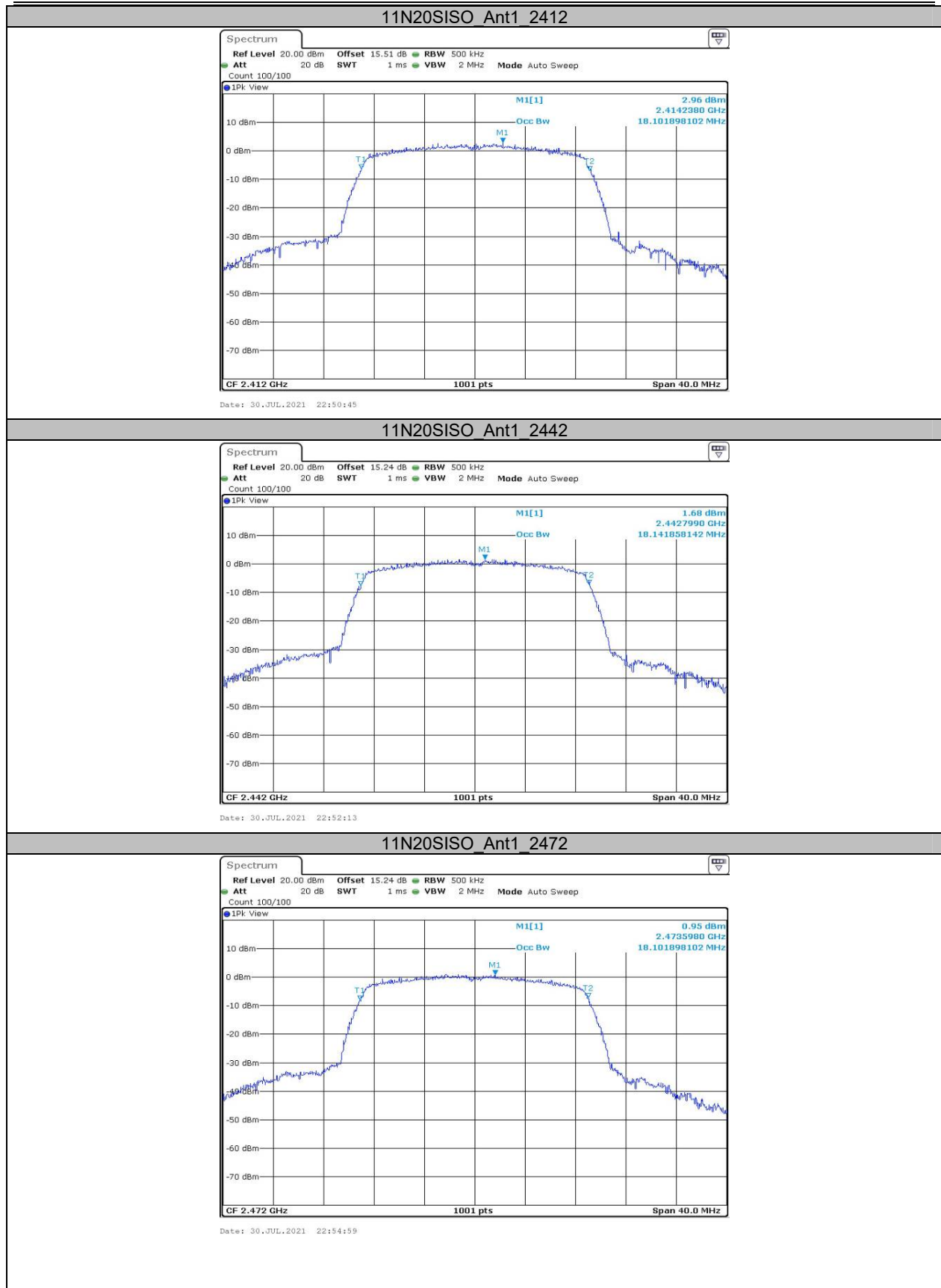


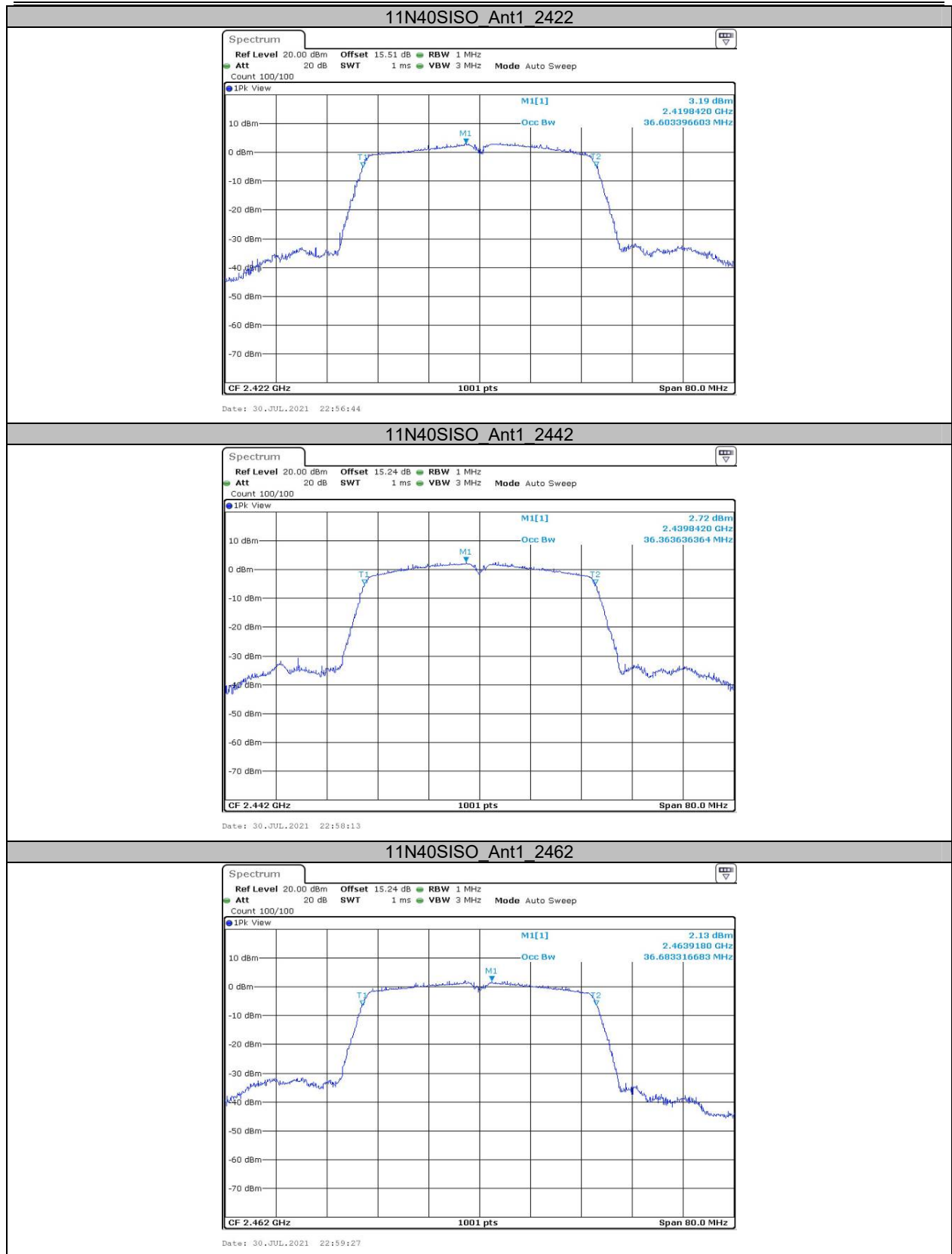
Date: 30.JUL.2021 22:46:01

11G Ant1 2472



Date: 30.JUL.2021 22:44:28





Appendix C: Maximum conducted output power**Test Result (PK)**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.89	≤30	PASS
		2442	15.02	≤30	PASS
		2472	15.63	≤30	PASS
11G	Ant1	2412	14.61	≤30	PASS
		2442	14.77	≤30	PASS
		2472	13.42	≤30	PASS
11N20SISO	Ant1	2412	14.00	≤30	PASS
		2442	13.21	≤30	PASS
		2472	12.68	≤30	PASS
11N40SISO	Ant1	2422	12.94	≤30	PASS
		2442	12.64	≤30	PASS
		2462	11.99	≤30	PASS

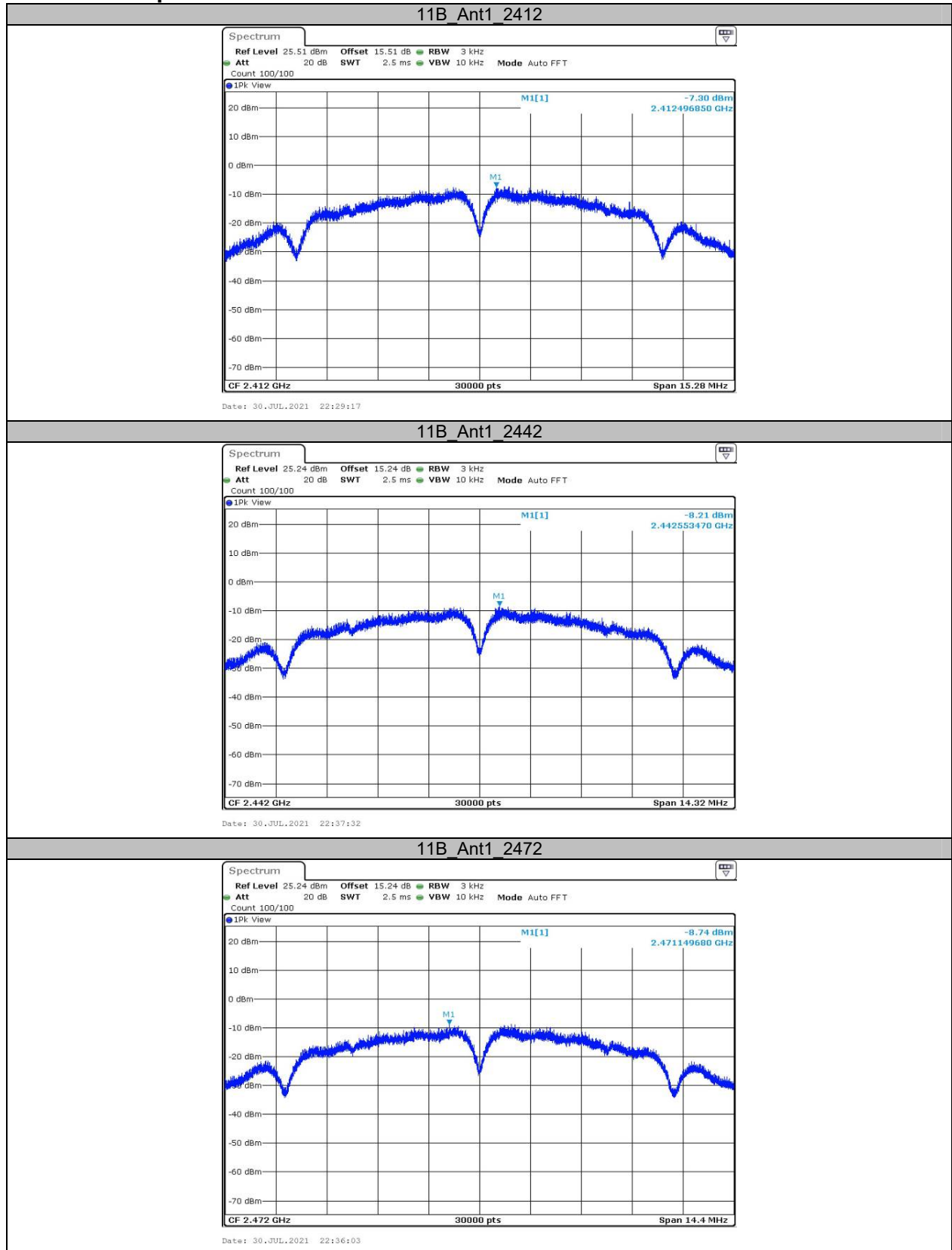
Test Result (Average)

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.33	≤30	PASS
		2442	12.61	≤30	PASS
		2472	13.23	≤30	PASS
11G	Ant1	2412	11.54	≤30	PASS
		2442	11.87	≤30	PASS
		2472	10.45	≤30	PASS
11N20SISO	Ant1	2412	10.41	≤30	PASS
		2442	9.50	≤30	PASS
		2472	9.09	≤30	PASS
11N40SISO	Ant1	2422	9.29	≤30	PASS
		2442	9.03	≤30	PASS
		2462	8.32	≤30	PASS

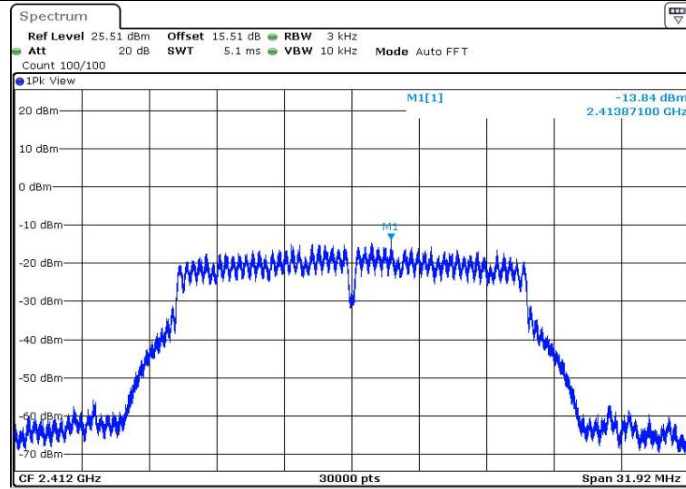
**Appendix D: Maximum power spectral density
Test Result**

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.30	≤8	PASS
		2442	-8.21	≤8	PASS
		2472	-8.74	≤8	PASS
11G	Ant1	2412	-13.84	≤8	PASS
		2442	-15.79	≤8	PASS
		2472	-16.75	≤8	PASS
11N20SISO	Ant1	2412	-14.51	≤8	PASS
		2442	-16.84	≤8	PASS
		2472	-16.65	≤8	PASS
11N40SISO	Ant1	2422	-18.78	≤8	PASS
		2442	-19.59	≤8	PASS
		2462	-19.85	≤8	PASS

Test Graphs

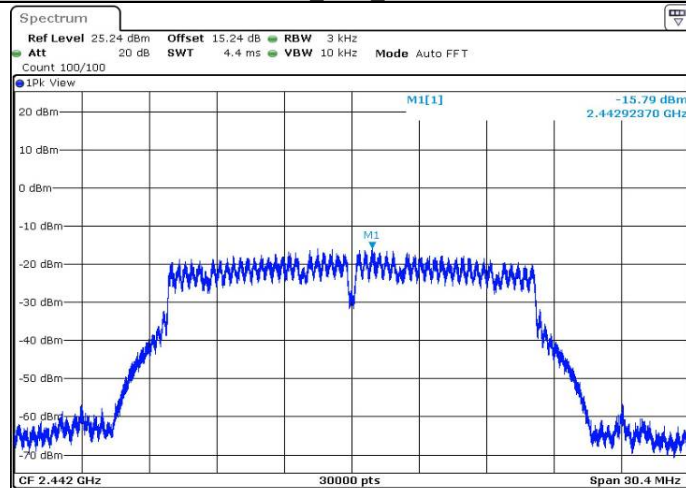


11G Ant1_2412



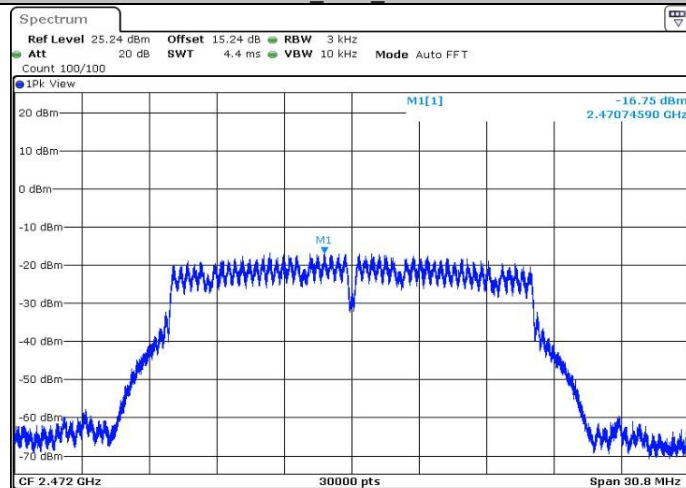
Date: 30.JUL.2021 22:40:55

11G Ant1_2442



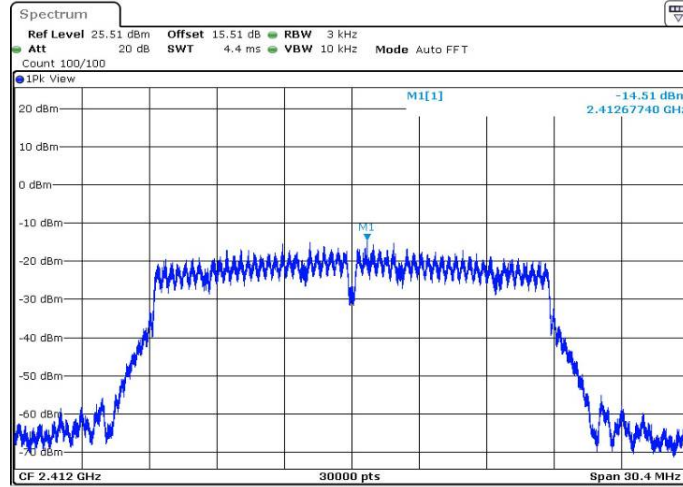
Date: 30.JUL.2021 22:43:35

11G Ant1_2472



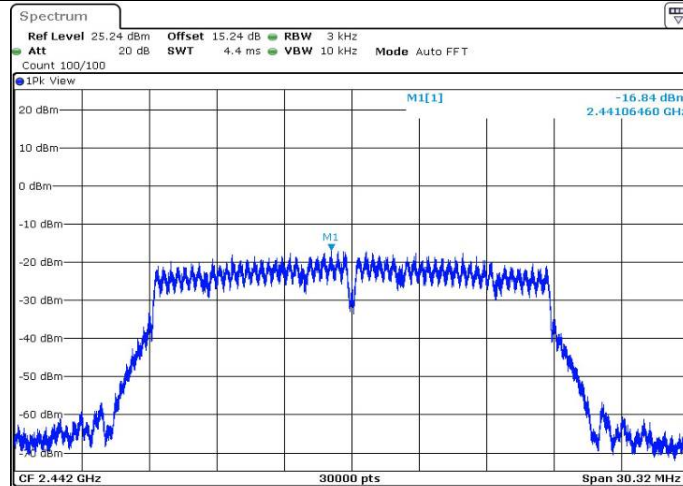
Date: 30.JUL.2021 22:44:47

11N20SISO Ant1 2412



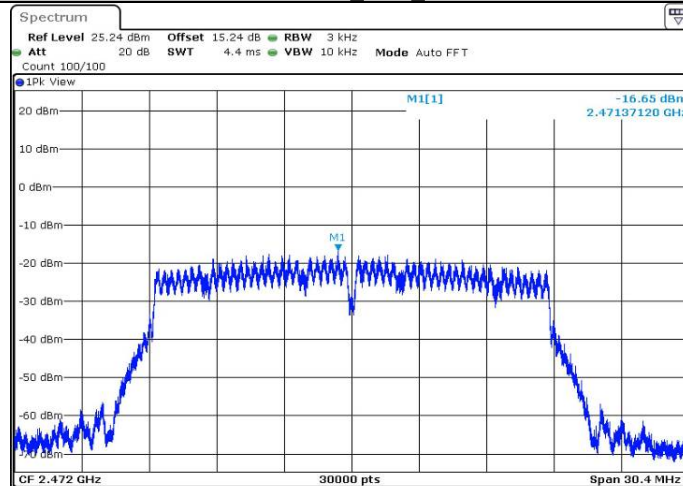
Date: 30.JUL.2021 22:51:05

11N20SISO Ant1 2442

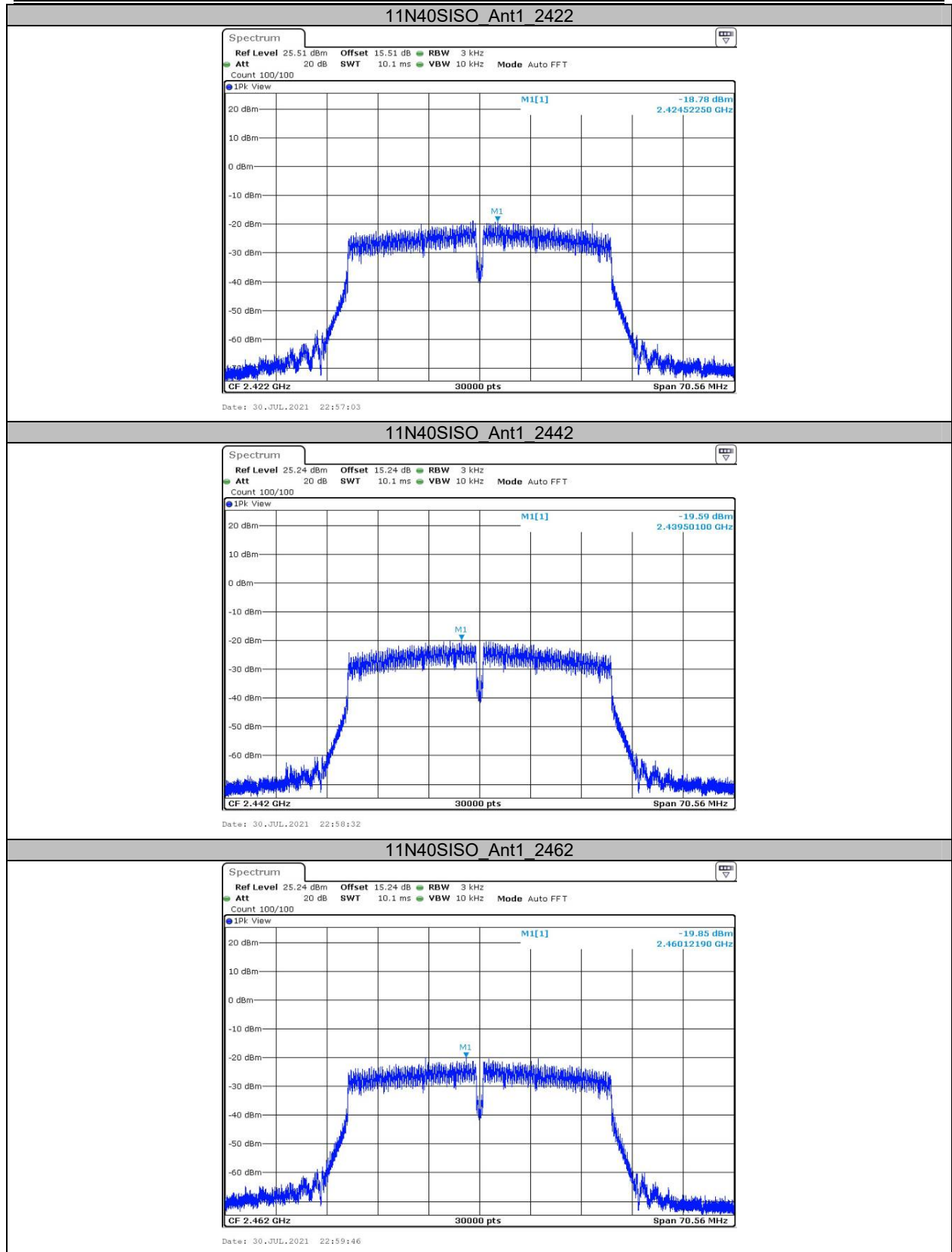


Date: 30.JUL.2021 22:52:32

11N20SISO Ant1 2472

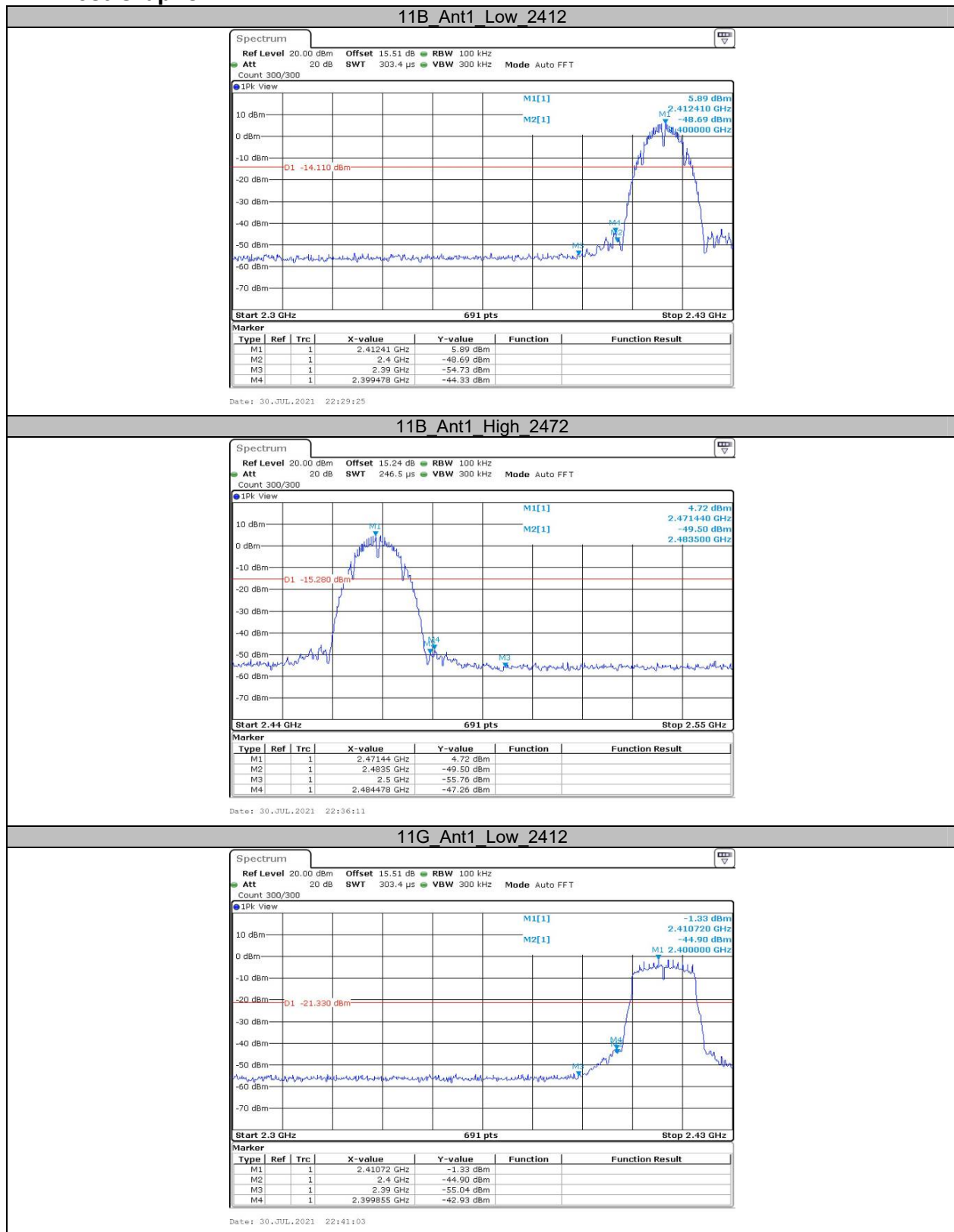


Date: 30.JUL.2021 22:55:18

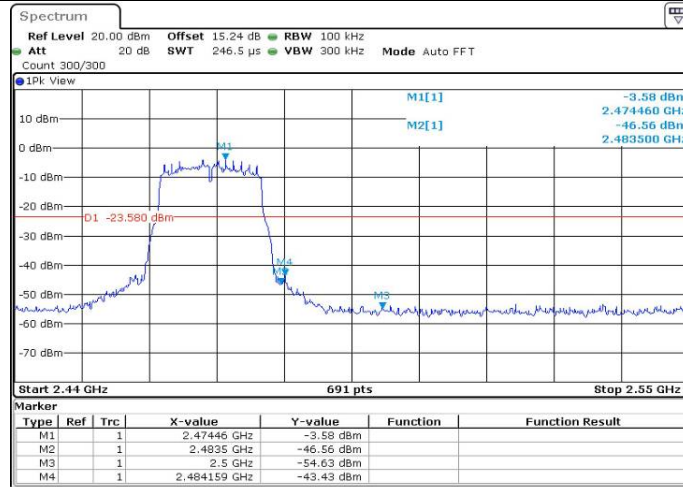


Appendix E: Band edge measurements

Test Graphs

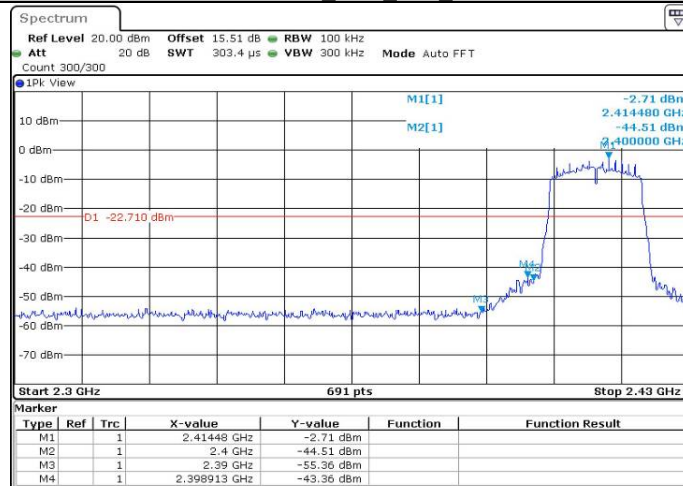


11G Ant1 High 2472



Date: 30.JUL.2021 22:44:55

11N20SISO Ant1 Low 2412



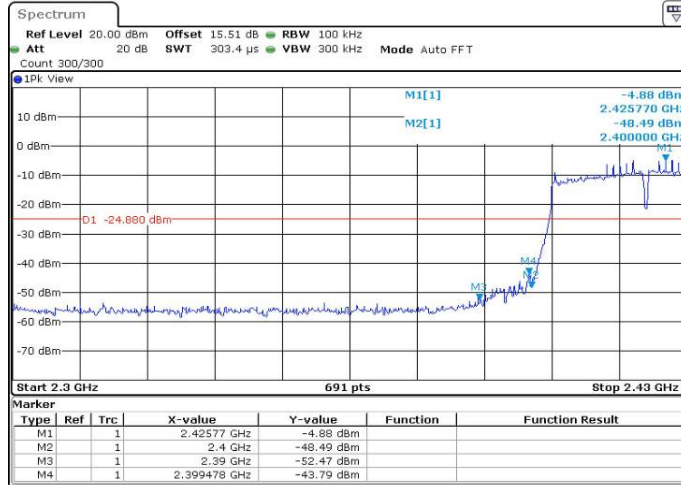
Date: 30.JUL.2021 22:51:13

11N20SISO Ant1 High 2472



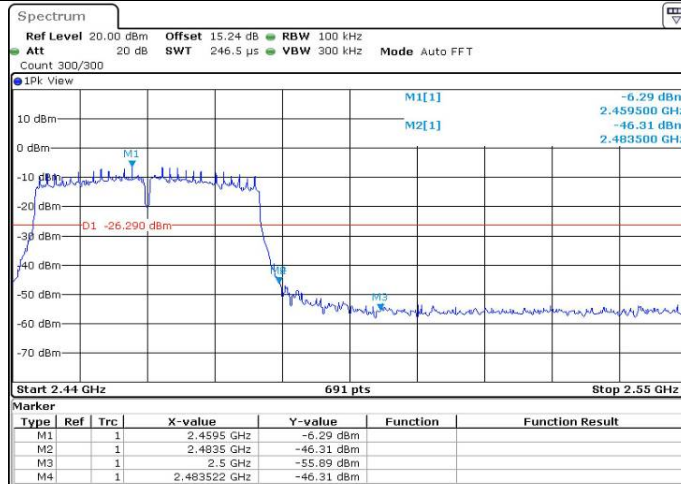
Date: 30.JUL.2021 22:55:27

11N40SISO Ant1 Low 2422



Date: 30.JUL.2021 22:57:11

11N40SISO Ant1 High 2462

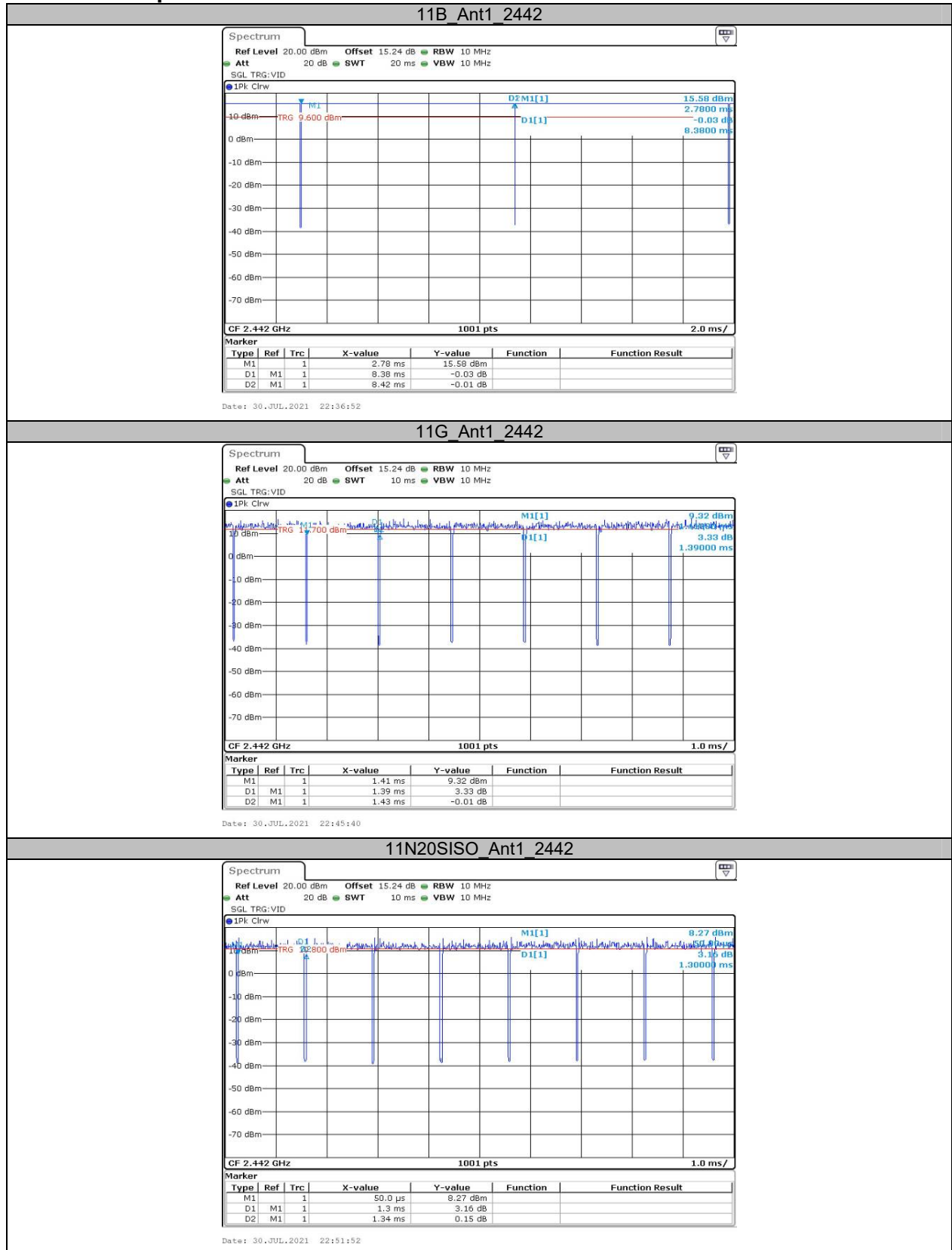


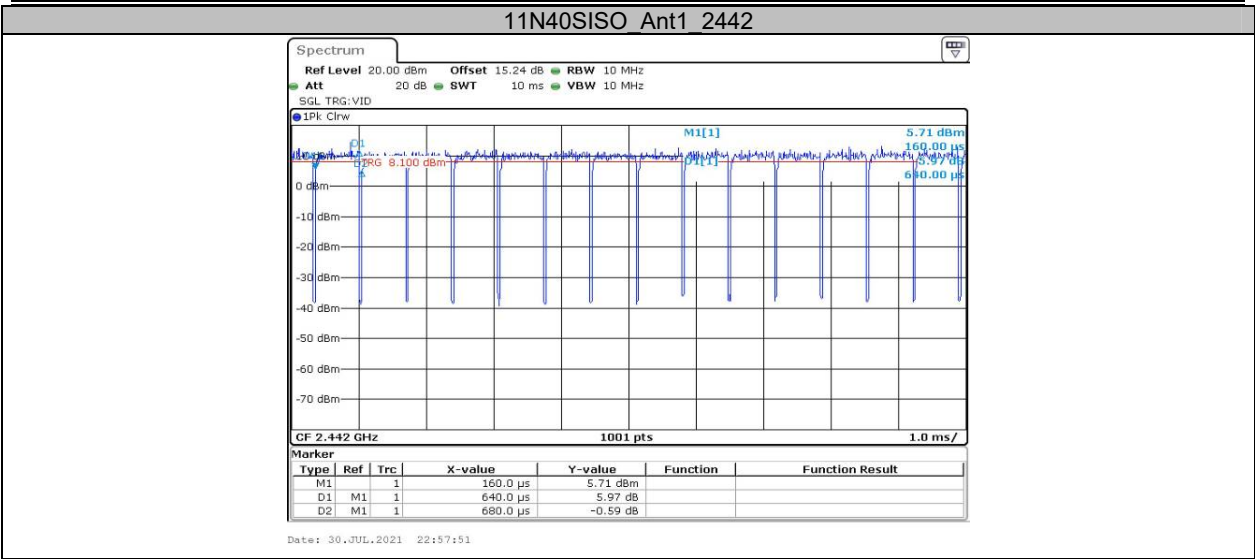
Date: 30.JUL.2021 22:59:54

**Appendix F: Duty Cycle
Test Result**

TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2442	8.38	8.42	99.52
11G	Ant1	2442	1.39	1.43	97.20
11N20SISO	Ant1	2442	1.30	1.34	97.01
11N40SISO	Ant1	2442	0.64	0.68	94.12

Test Graphs





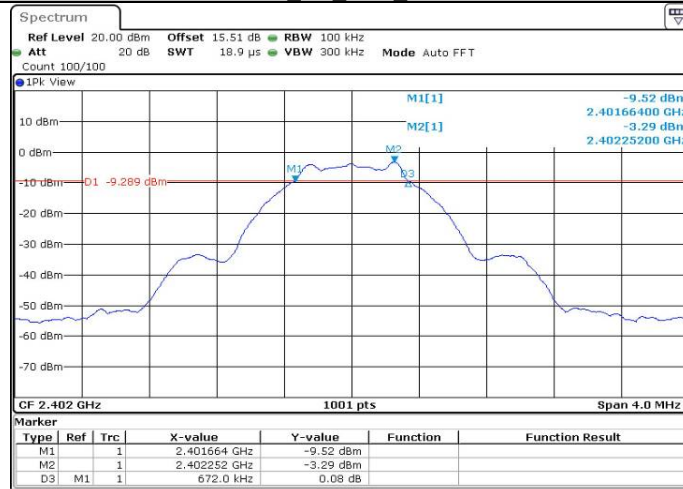
APPENDIX BLE

Appendix A: DTS Bandwidth Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	0.5	PASS
		2440	0.672	0.5	PASS
		2480	0.672	0.5	PASS
BLE_2M	Ant1	2402	1.172	0.5	PASS
		2440	1.176	0.5	PASS
		2480	1.176	0.5	PASS

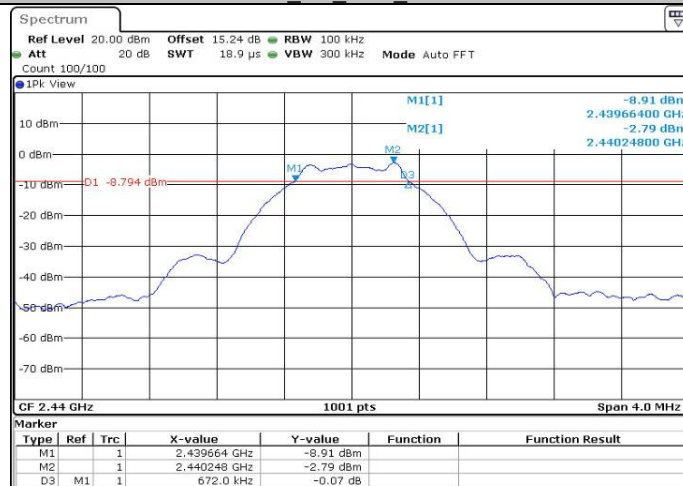
Test Graphs

BLE_1M_Ant1_2402



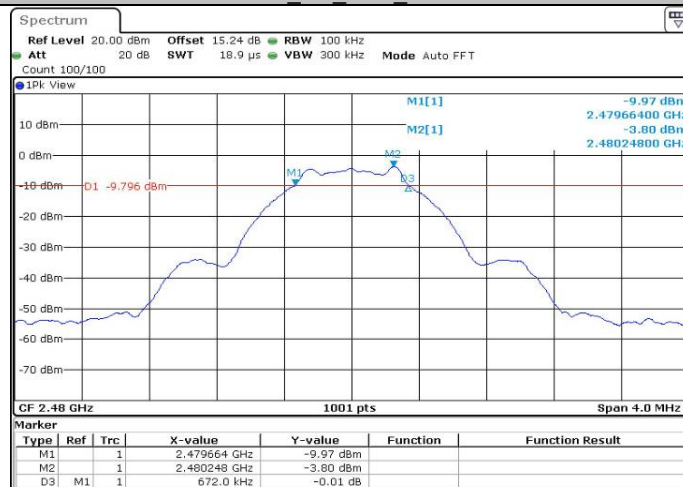
Date: 10.AUG.2021 10:59:33

BLE_1M_Ant1_2440



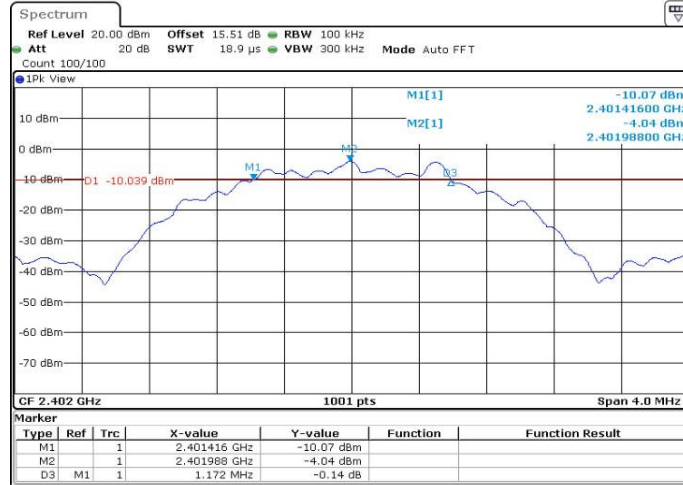
Date: 10.AUG.2021 19:04:48

BLE_1M_Ant1_2480



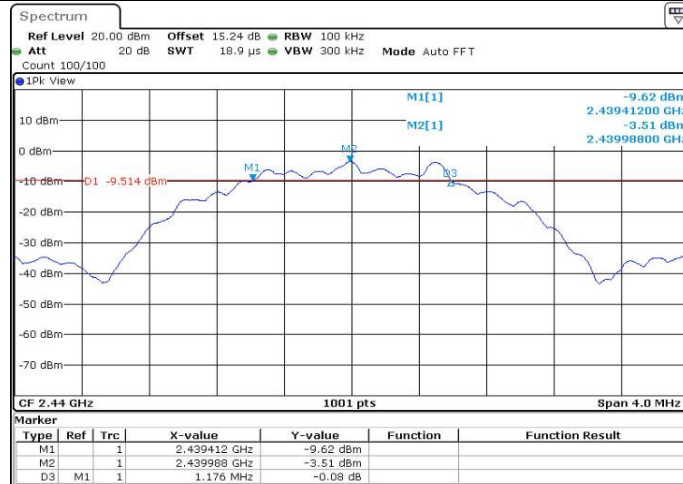
Date: 10.AUG.2021 19:06:15

BLE 2M Ant1 2402



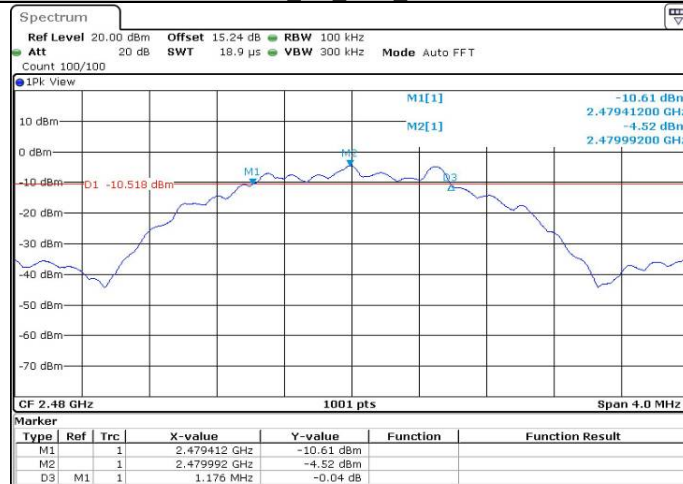
Date: 10.AUG.2021 19:09:14

BLE 2M Ant1 2440



Date: 10.AUG.2021 19:10:47

BLE 2M Ant1 2480

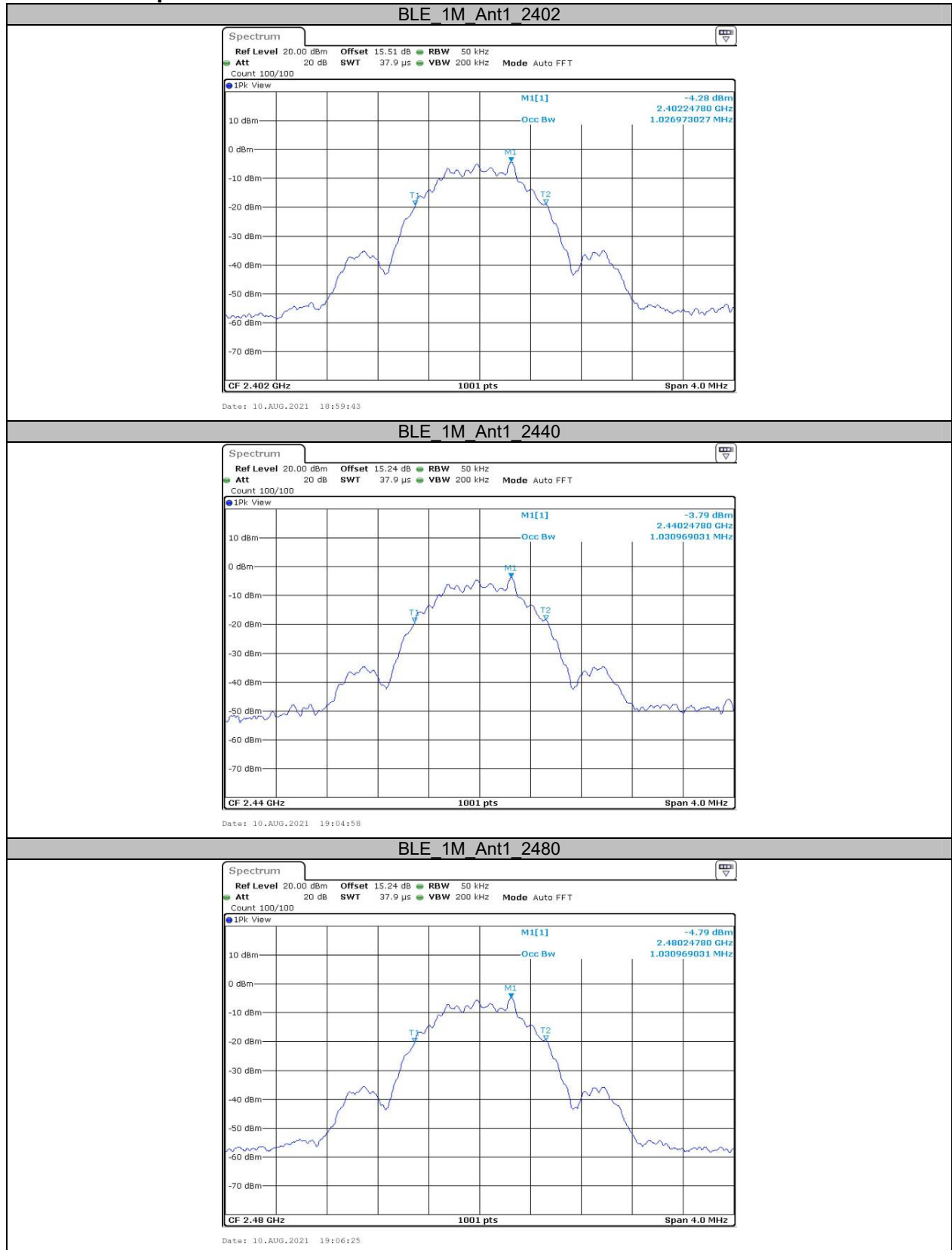


Date: 10.AUG.2021 19:11:50

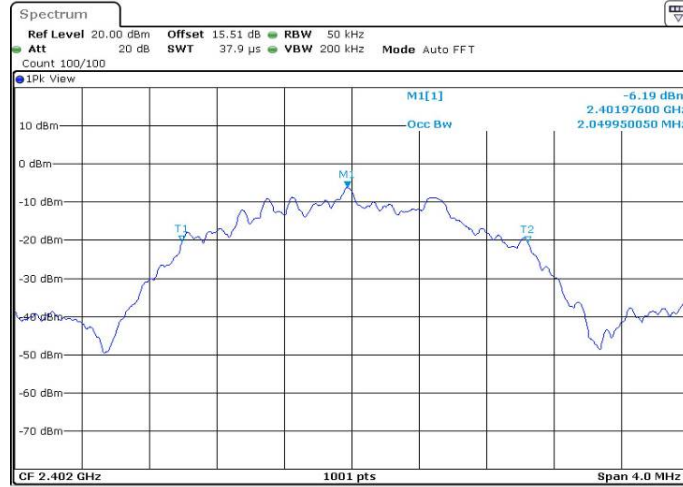
**Appendix B: Occupied Channel Bandwidth
Test Result**

TestMode	Antenna	Channel	OCB [MHz]	Verdict
BLE_1M	Ant1	2402	1.027	PASS
		2440	1.031	PASS
		2480	1.031	PASS
BLE_2M	Ant1	2402	2.05	PASS
		2440	2.05	PASS
		2480	2.054	PASS

Test Graphs

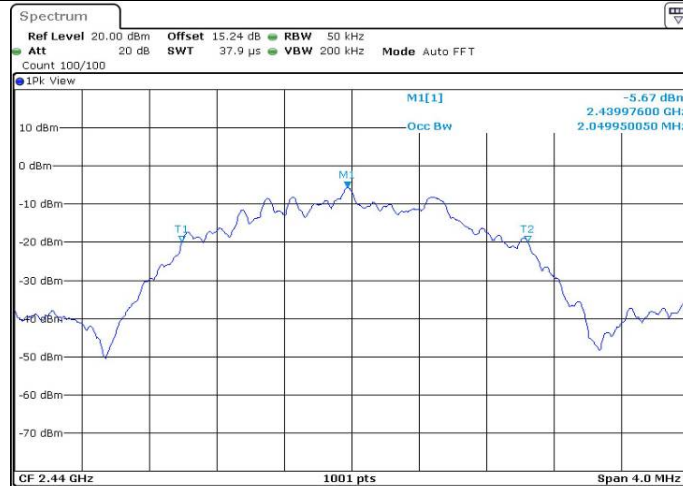


BLE 2M Ant1 2402



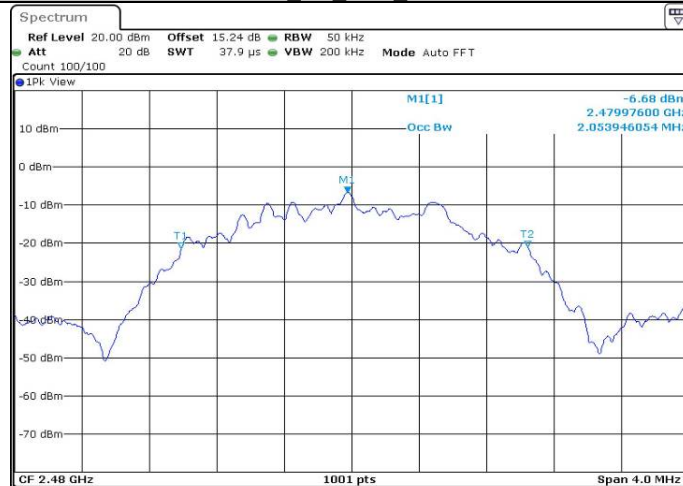
Date: 10.AUG.2021 19:09:24

BLE 2M Ant1 2440



Date: 10.AUG.2021 19:10:57

BLE 2M Ant1 2480



Date: 10.AUG.2021 19:12:00

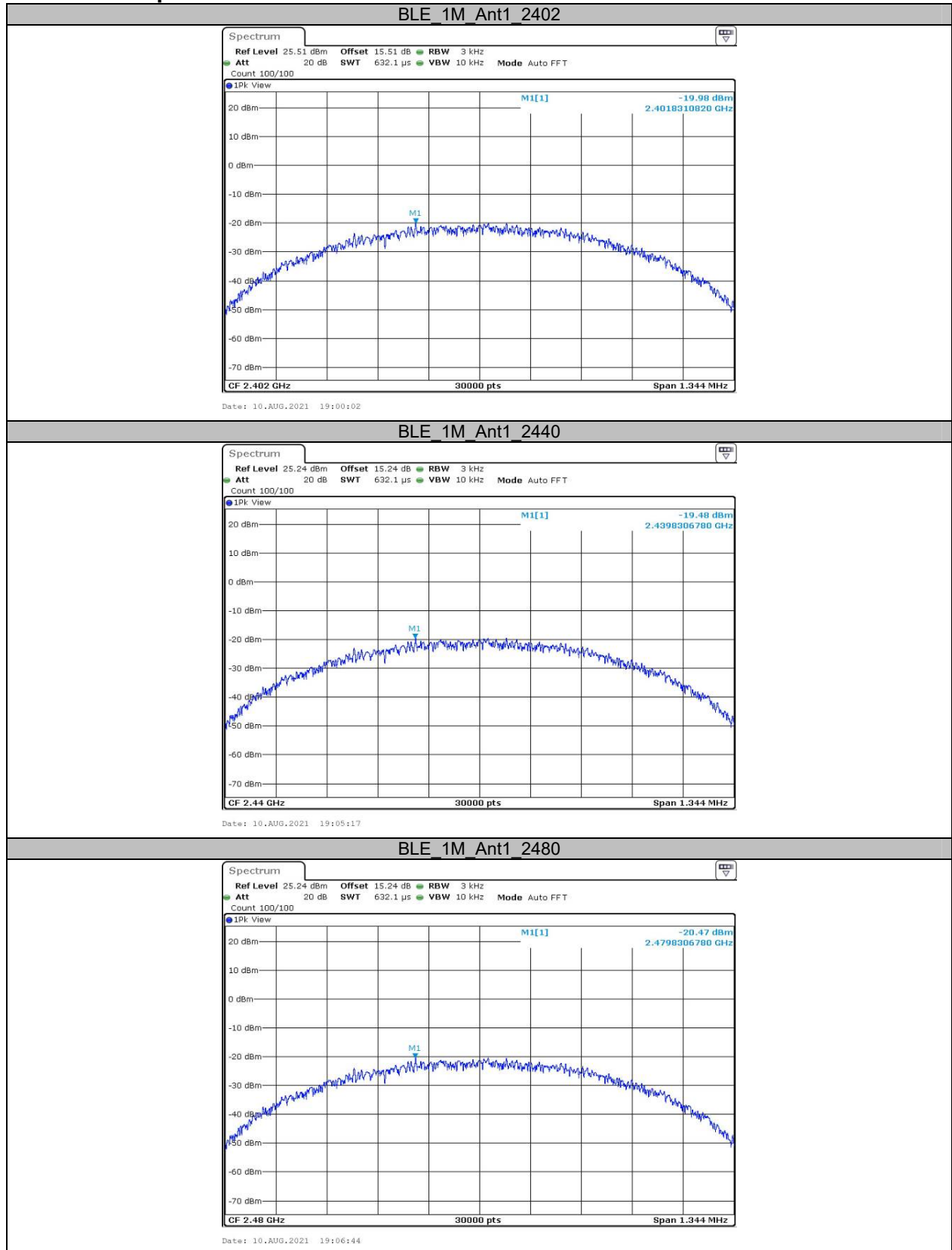
Appendix C: Maximum conducted Peak output power**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.53	≤30	PASS
		2440	-1.69	≤30	PASS
		2480	-2.66	≤30	PASS
BLE_2M	Ant1	2402	-2.53	≤30	PASS
		2440	-1.69	≤30	PASS
		2480	-2.66	≤30	PASS

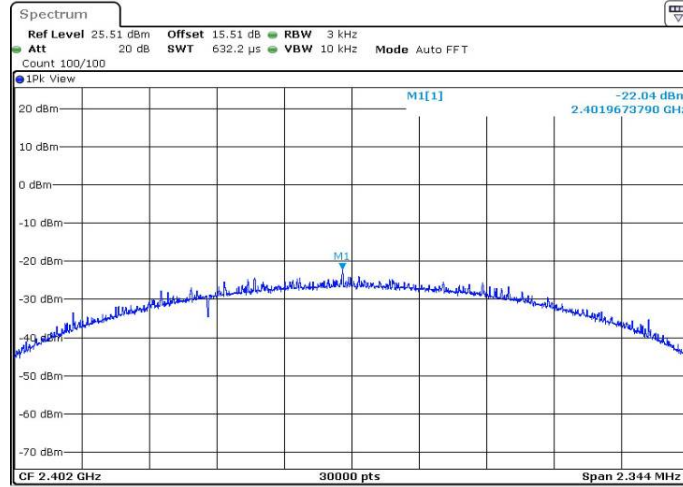
**Appendix D: Maximum power spectral density
Test Result**

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.98	≤8	PASS
		2440	-19.48	≤8	PASS
		2480	-20.47	≤8	PASS
BLE_2M	Ant1	2402	-22.04	≤8	PASS
		2440	-21.49	≤8	PASS
		2480	-22.46	≤8	PASS

Test Graphs

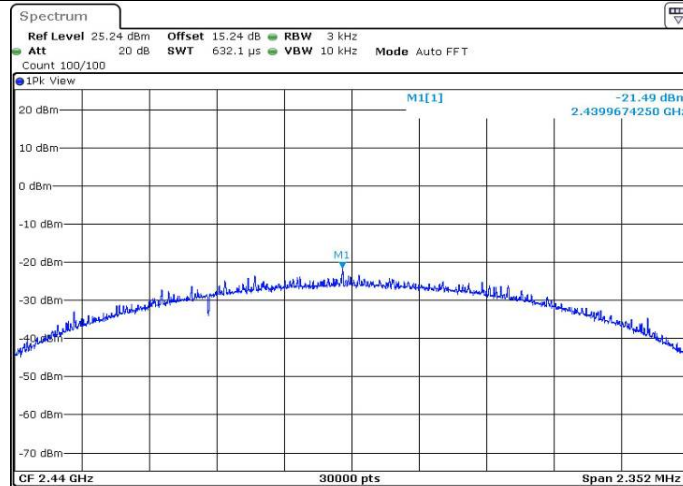


BLE 2M Ant1 2402



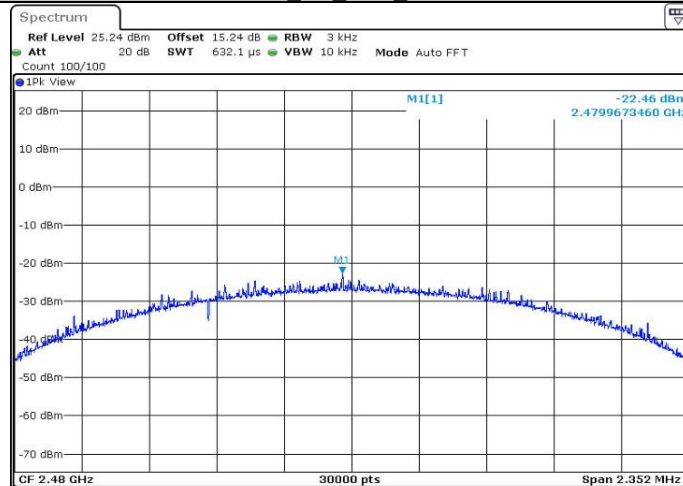
Date: 10.AUG.2021 19:09:43

BLE 2M Ant1 2440



Date: 10.AUG.2021 19:11:16

BLE 2M Ant1 2480

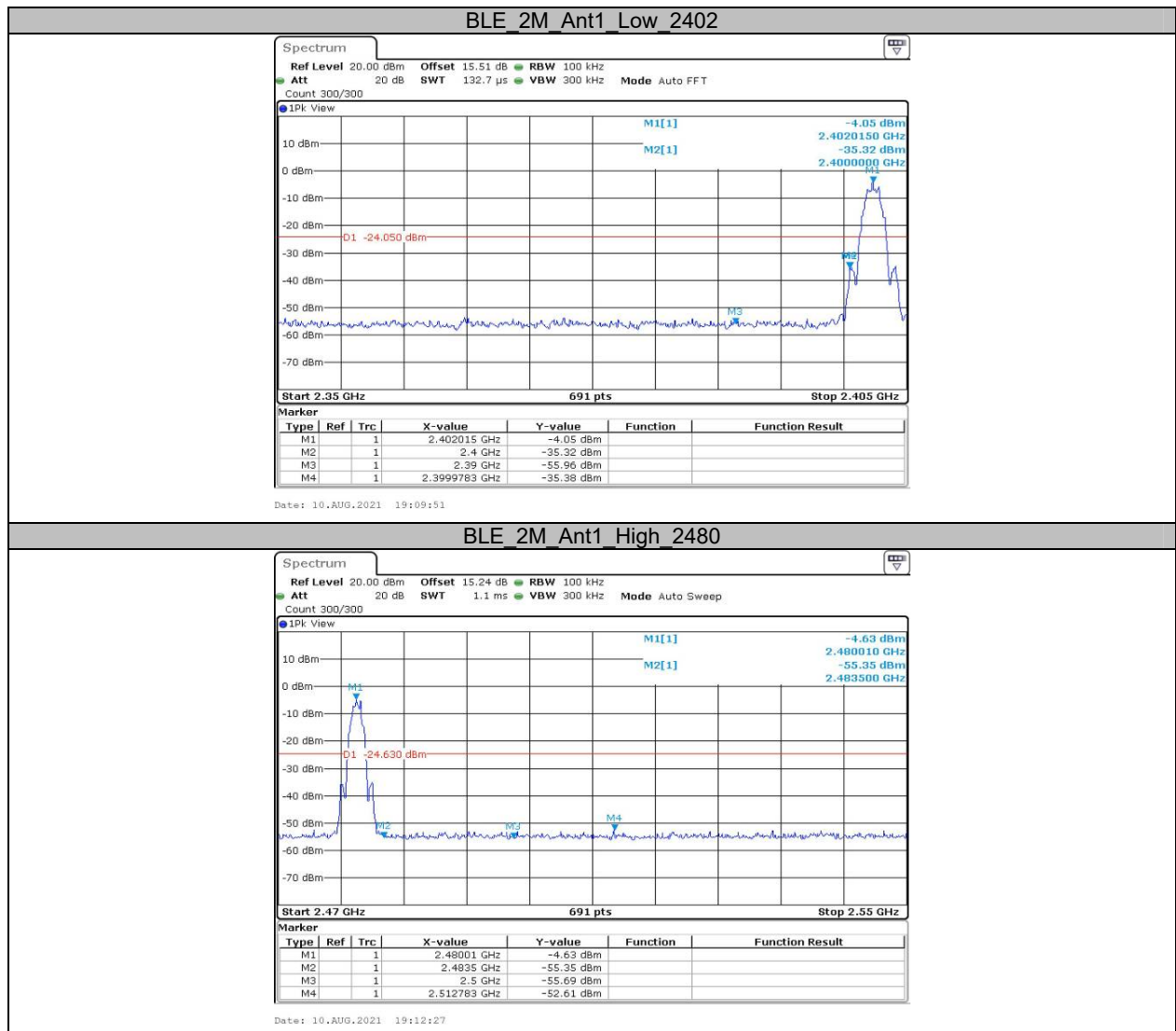


Date: 10.AUG.2021 19:12:19

Appendix E: Band edge measurements

Test Graphs

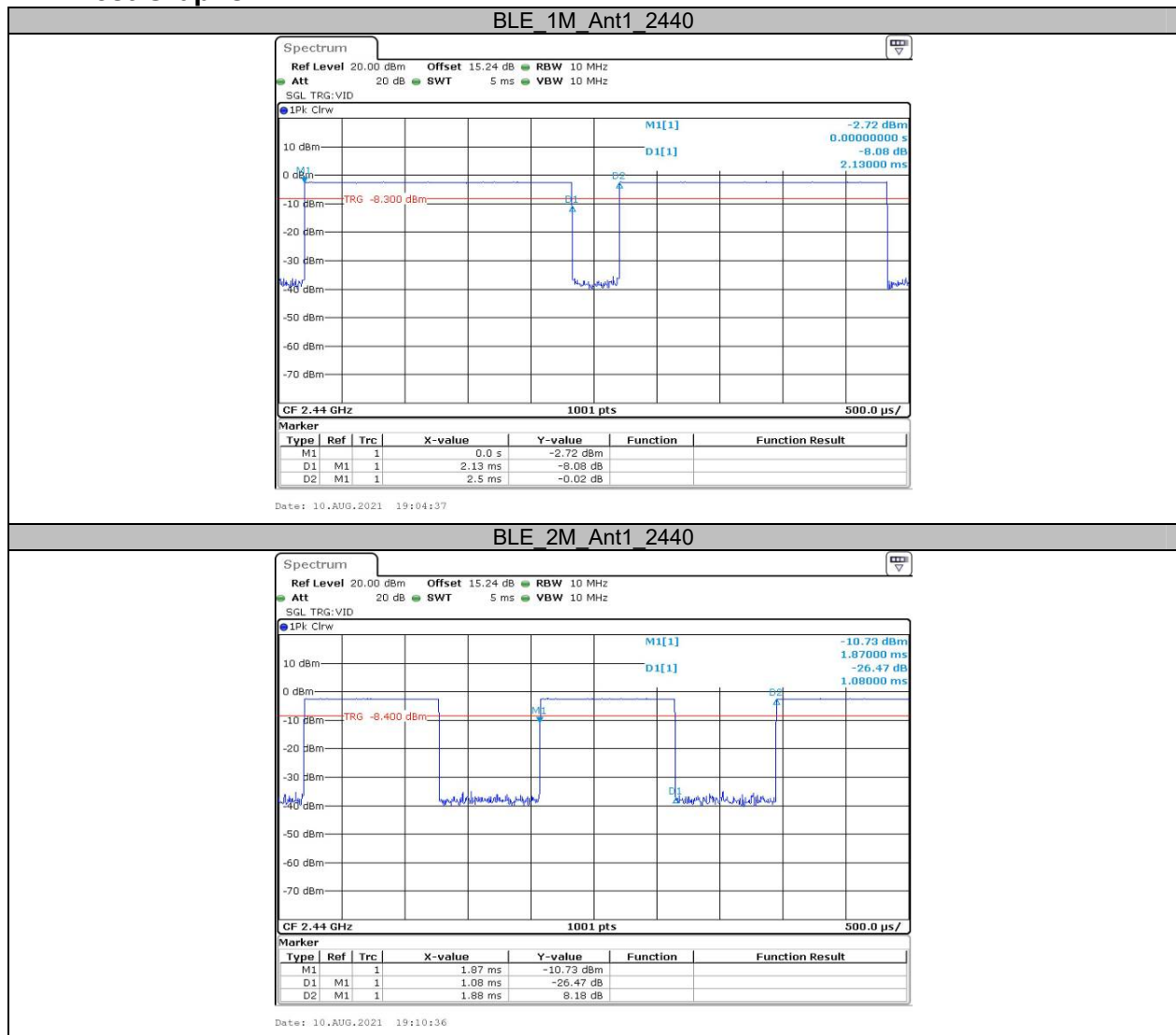




Appendix F: Duty Cycle Test Result

TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2440	2.13	2.50	85.20
BLE_2M	Ant1	2440	1.08	1.88	57.45

Test Graphs



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