



FCC PART 15.247

TEST REPORT

For

ShenZhen Foscam Intelligent Technology Co., Ltd.

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Nanshan Dist., Shenzhen China

FCC ID: ZDEV D1

Report Type: Original Report	Product Type: 4.0MP Video Doorbell (Wired)
Report Number: RSZ201104012-00A	
Report Date: 2021-02-06	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	4.0MP Video Doorbell (Wired)
Tested Model	VD1
Multiple Model	DBW5, DBW6, DBW7, DBW8, VD2, VD3, VD4, VD5, MBS4010, MBS4011, MBS4012, MBS4013
Model Differences	Refer to the DoS letter
Frequency Range	Wi-Fi: 2412~2472MHz/2422-2462MHz
Maximum Conducted Peak Power	Wi-Fi: 8.90dBm(802.11b), 16.70dBm(802.11g), 15.80dBm(802.11n-HT20), 15.00dBm(802.11n-HT40)
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	2*2 MIMO, PIFA Antenna: 2dBi(provided by the applicant)
Voltage Range	DC 3.7V battery or DC 8~24V or DC 5.0V from Type-C port
Date of Test	2020-11-18 to 2021-02-06
Sample number	RSZ201104012-RF-S1(Assigned by BACL, Shenzhen)
Received date	2020-11-04
Sample/EUT Status	Good condition

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.

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 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, 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.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

“SureCRT” software was use to the EUT tested.

Mode	Data rate	Power level*		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	40	40	40
802.11g	6 Mbps	40	40	40
802.11n-HT20	MCS0	40	40	40
802.11n-HT40	MCS0	40	40	40

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

The software and power level was provided by the applicant.

Duty cycle

Test Result Compliant. Please refer to the Appendix.

Support Equipment List and Details

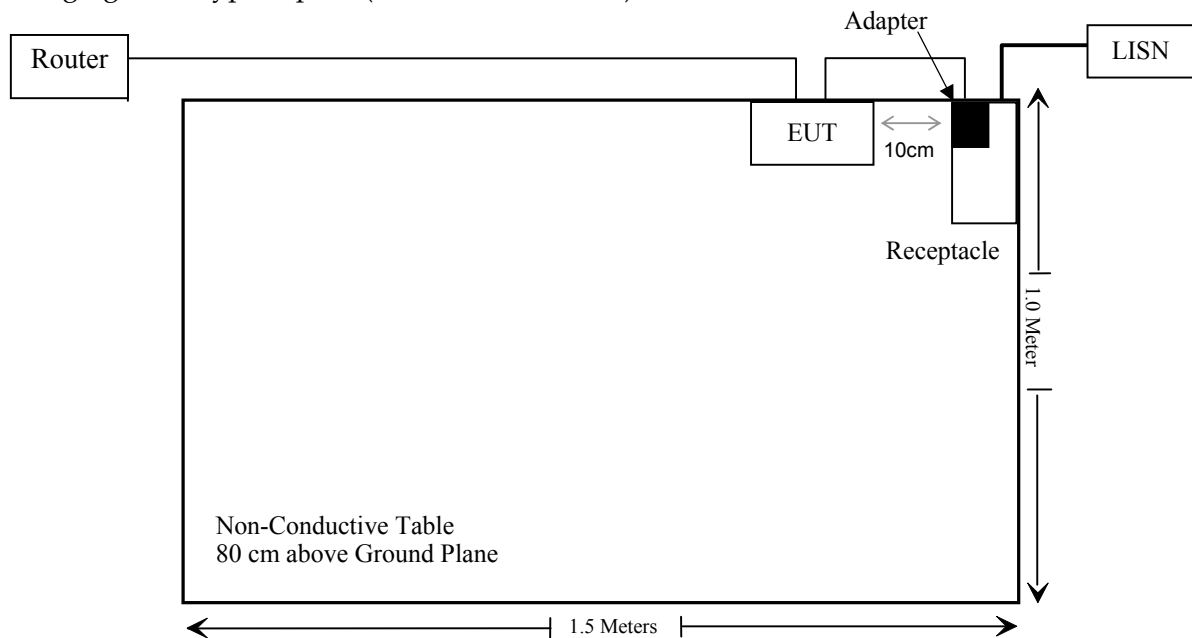
Manufacturer	Description	Model	Serial Number
HIKVISION	ROUTER	DS-3WR03-E	10021642429
YEZZ	Adapter	YW1000US	E134646
Zhaoxin	DC Power Supply	RXN-303A	Unknown

External I/O Cable

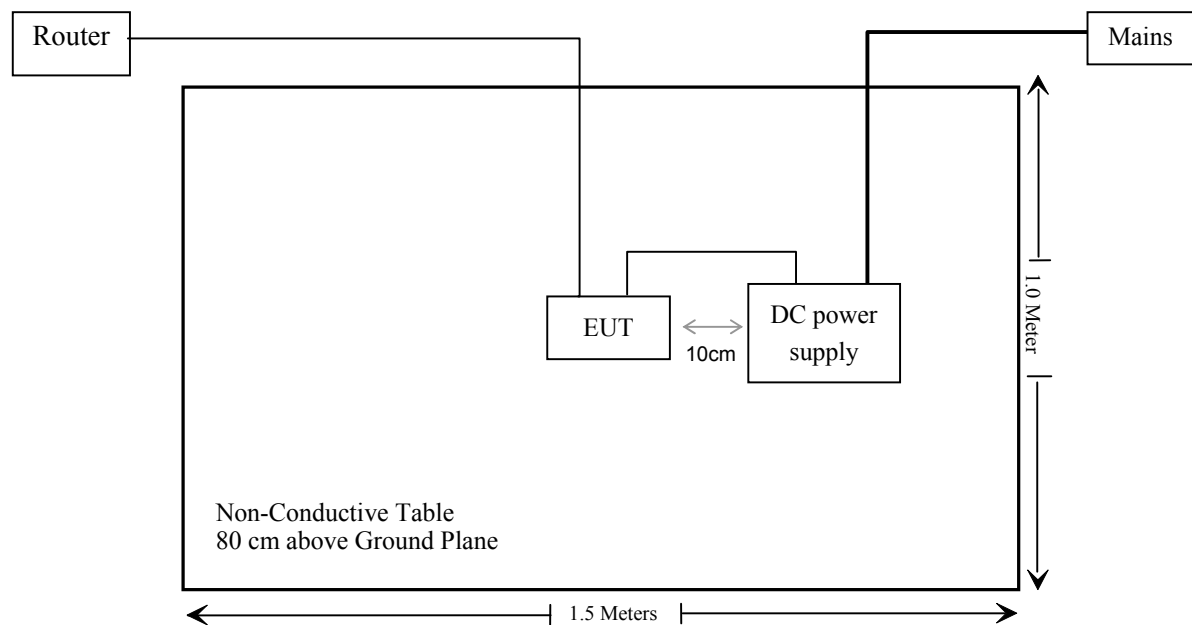
Cable Description	Length (m)	From Port	To
Unshielded detachable USB cable	0.5	Adapter	EUT
Unshielded detachable RJ45 cable	2.0	Router	EUT
Unshielded detachable DC cable	1.0	DC Power Supply	EUT
Unshielded detachable AC cable	1.5	DC Power Supply	Mains

Block Diagram of Test Setup

Charging from Type-C port: (conducted emission)



Charging from DC input port: (radiated emission (below 1GHz))



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	Maximum Permissible Exposure(MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2019/11/29	2020/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2019/11/29	2020/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2020/12/22	2021/12/21
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	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2019/11/29	2020/11/28
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2019/11/29	2020/11/28
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017/12/22	2020/12/21
Insulated Wire Inc.	RF Cable	SPS-2503-3150	02222010	2019/11/29	2020/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2019/11/29	2020/11/28
SNSD	Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2020/04/20	2021/04/20
Ducommun Technologies	Horn antenna	ARH-4223-02	1007726-02 1304	2019/12/06	2022/12/05
RF Conducted Test					
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2020/08/04	2021/08/03
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2020/08/04	2021/08/03
Unknown	RF Cable	Unknown	2301 276	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) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and 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.

Limits for General Population/Uncontrolled Exposure

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

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Mode	Frequency (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
Wi-Fi	2412-2462	2.0	1.58	17.0	50.12	20	0.016	1

Note: 1. the tune up conducted power was declared by the applicant

2. the 2.4G Wi-Fi cannot transmit at the same time with the 5G Wi-Fi.

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

Result: Compliance

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 two internal antenna arrangement, which was permanently attached and the antenna gain is 2.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

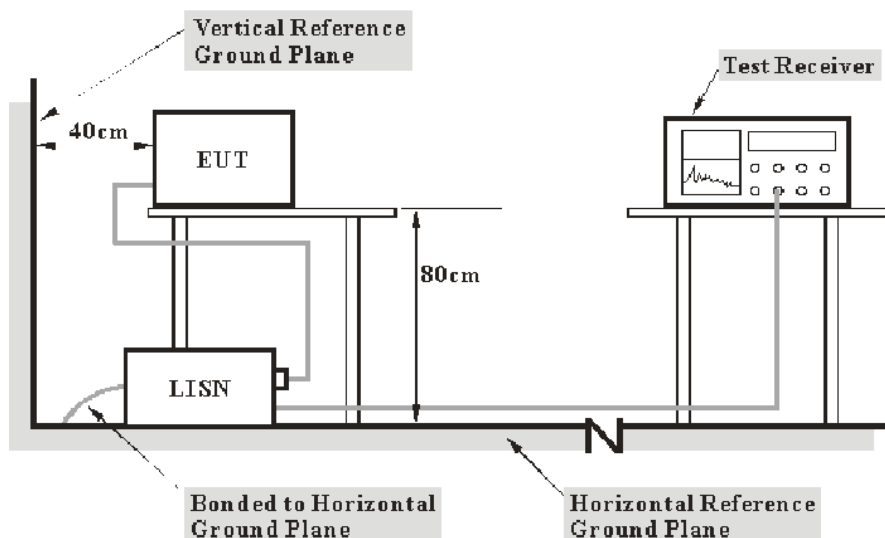
Result: Pass.

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:

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

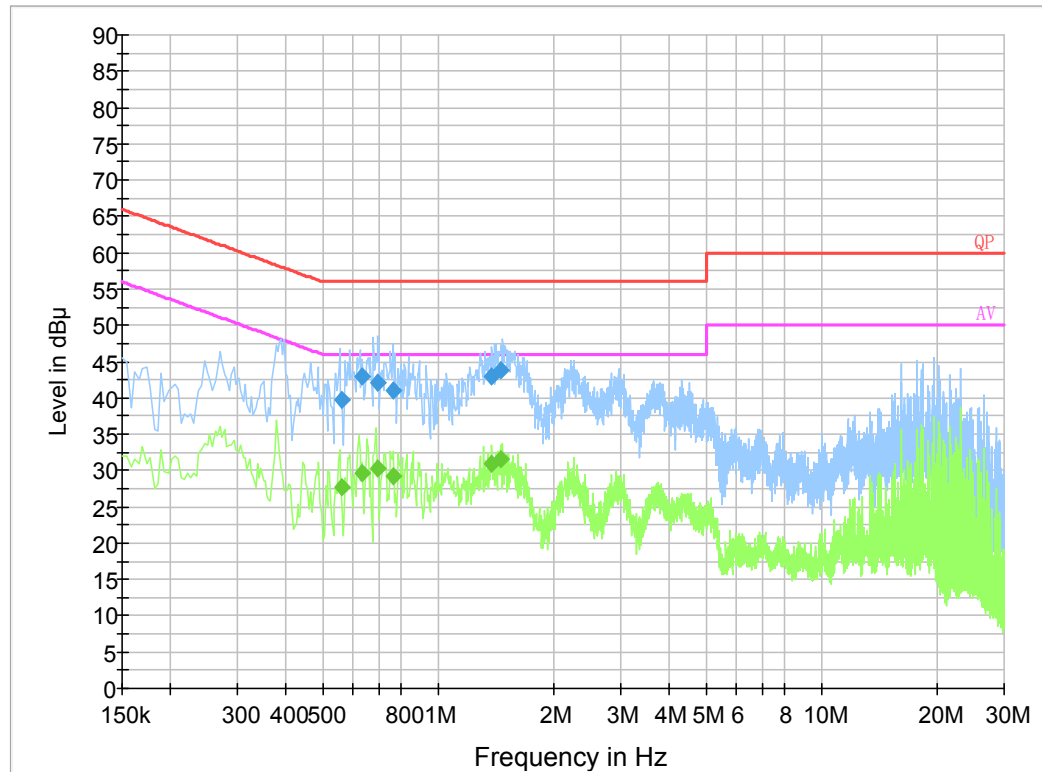
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2020-11-18.

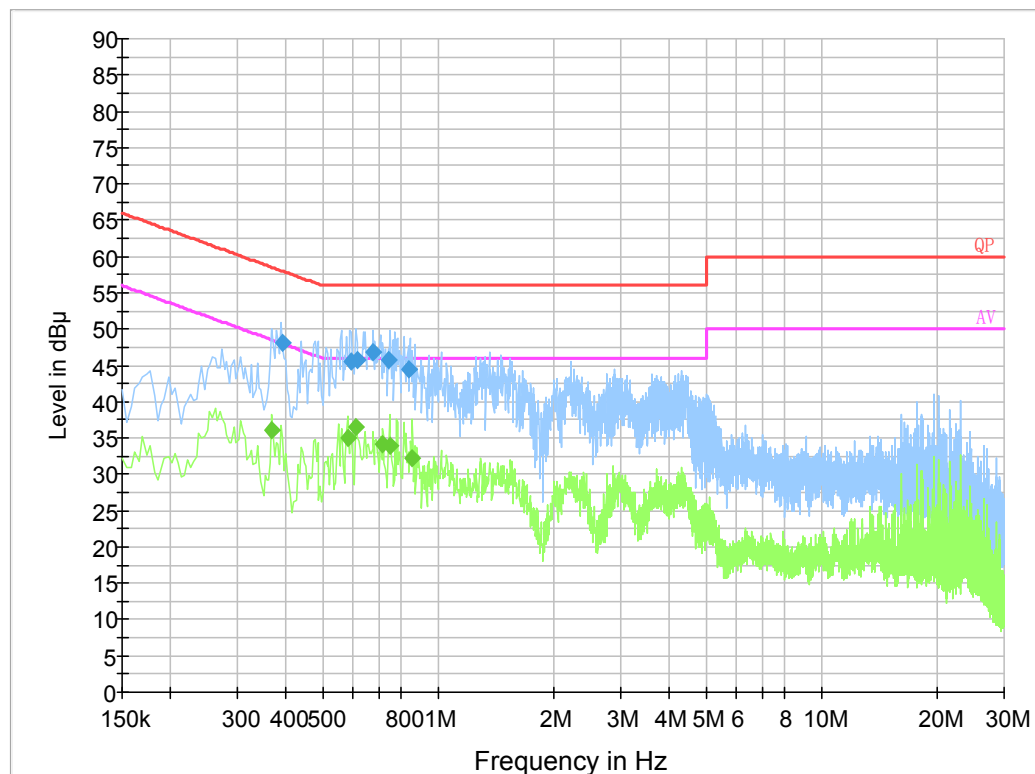
EUT operation mode: Transmitting (worst case is MIMO mode at 802.11g Middle channel)

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)
0.562310	39.8	9.000	L1	19.8	16.2	56.0
0.632610	43.0	9.000	L1	19.8	13.0	56.0
0.695530	42.2	9.000	L1	19.8	13.8	56.0
0.762570	41.1	9.000	L1	19.8	14.9	56.0
1.377270	43.0	9.000	L1	19.8	13.0	56.0
1.459830	43.8	9.000	L1	19.8	12.2	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.562310	27.7	9.000	L1	19.8	18.3	46.0
0.632610	29.7	9.000	L1	19.8	16.3	46.0
0.695530	30.3	9.000	L1	19.8	15.7	46.0
0.762570	29.3	9.000	L1	19.8	16.7	46.0
1.377270	30.8	9.000	L1	19.8	15.2	46.0
1.459830	31.5	9.000	L1	19.8	14.5	46.0

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

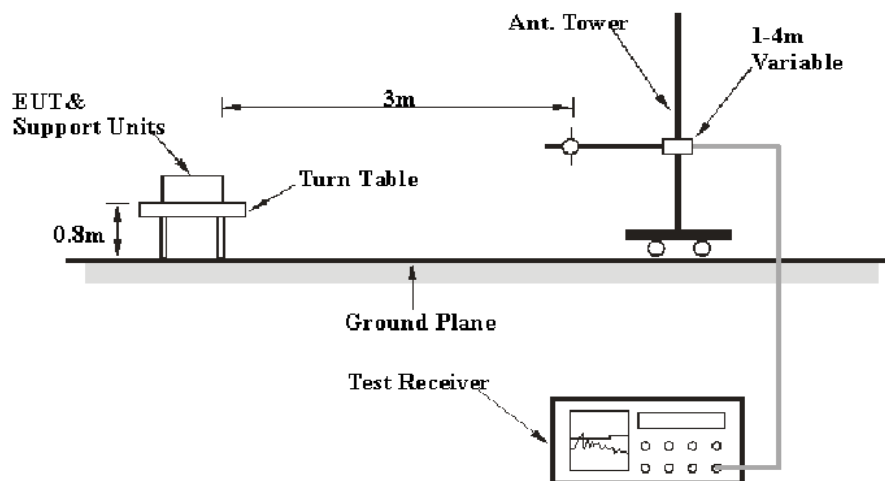
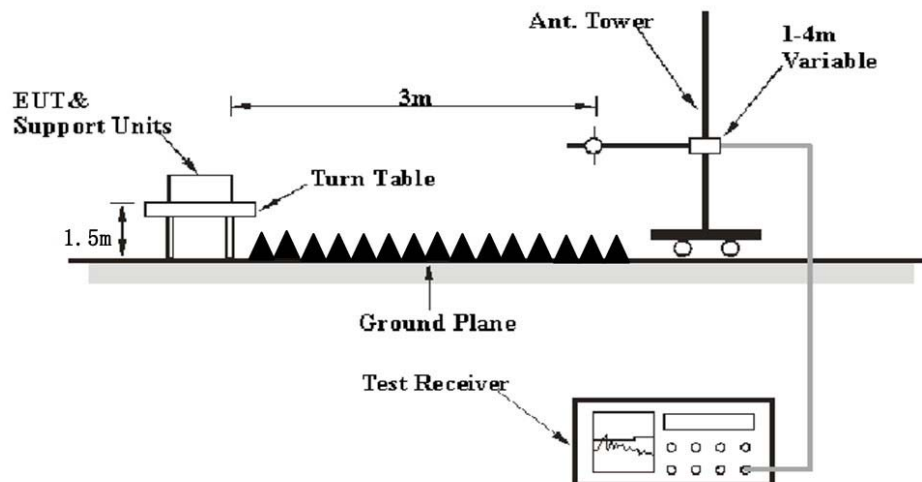
Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.392150	48.0	9.000	N	19.8	10.0	58.0
0.593150	45.5	9.000	N	19.8	10.5	56.0
0.616850	45.8	9.000	N	19.8	10.2	56.0
0.675830	46.9	9.000	N	19.8	9.1	56.0
0.746690	45.7	9.000	N	19.8	10.3	56.0
0.837310	44.5	9.000	N	19.8	11.5	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.370000	36.0	9.000	N	19.9	12.5	48.5
0.582000	34.9	9.000	N	19.8	11.1	46.0
0.610000	36.5	9.000	N	19.8	9.5	46.0
0.718000	34.1	9.000	N	19.8	11.9	46.0
0.750000	34.0	9.000	N	19.8	12.0	46.0
0.858000	32.3	9.000	N	19.8	13.7	46.0

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:

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

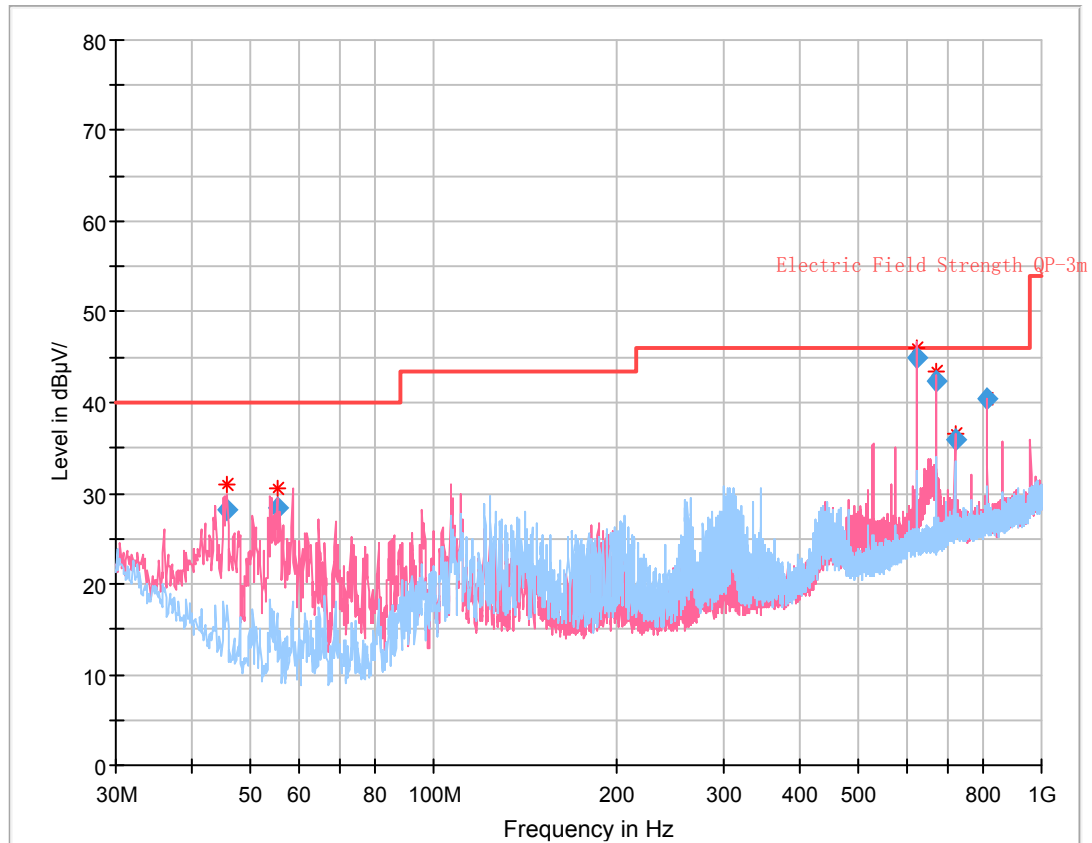
Test Data

Environmental Conditions

Temperature:	27~27.1 °C
Relative Humidity:	42~51 %
ATM Pressure:	101.0 kPa

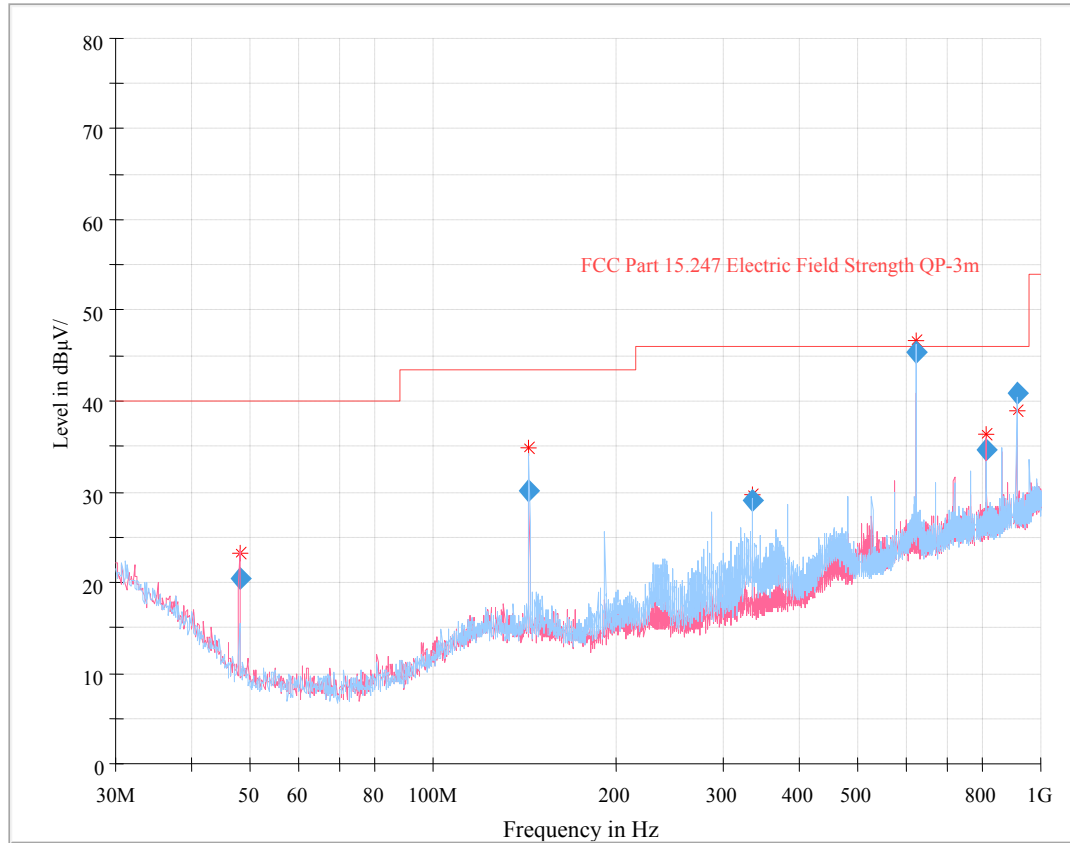
The testing was performed by Holland Yang on 2020-12-08 and 2021-01-22 for below 1GHz and Leven Gan on 2020-11-25 for above 1GHz.

EUT operation mode: Transmitting (worst case is MIMO mode)

30 MHz~1 GHz (Wi-Fi 802.11g mode, middle channel worst case):*Charging from Type-C port:***Final_Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
45.747125	28.18	40.00	11.82	110.0	V	0.0	-14.5
55.307750	28.35	40.00	11.65	103.0	V	23.0	-16.8
624.034500	45.01	46.00	0.99	102.0	V	114.0	-2.1
672.017500	42.44	46.00	3.56	104.0	V	66.0	-1.7
720.004550	35.98	46.00	10.02	299.0	V	158.0	1.6
816.029875	40.52	46.00	5.48	127.0	V	129.0	0.0

Charging from DC input port:



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
47.956550	20.35	40.00	19.65	143.0	V	0.0	-5.4
143.997375	30.06	43.50	13.44	327.0	H	0.0	-11.1
336.030088	29.08	46.00	16.92	104.0	H	330.0	-7.2
624.009250	45.34	46.00	0.66	181.0	H	285.0	-2.1
816.042475	34.68	46.00	11.32	159.0	V	258.0	0.2
912.007625	40.76	46.00	5.24	115.0	H	265.0	1.6

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)									
2389.64	28.75	PK	126	2.3	H	31.87	60.62	74	13.38
2389.64	16.18	Ave.	126	2.3	H	31.87	48.05	54	5.95
2484.76	28.62	PK	220	2.1	H	32.13	60.75	74	13.25
2484.76	16.28	Ave.	220	2.1	H	32.13	48.41	54	5.59
4824.00	44.32	PK	203	2.4	H	6.28	50.60	74	23.40
4824.00	31.89	Ave.	203	2.4	H	6.28	38.17	54	15.83
Middle Channel (2442 MHz)									
4884.00	44.87	PK	30	1.2	H	6.76	51.63	74	22.37
4884.00	32.42	Ave.	30	1.2	H	6.76	39.18	54	14.82
High Channel (2472 MHz)									
2388.32	28.58	PK	226	1.2	H	31.87	60.45	74	13.55
2388.32	15.99	Ave.	226	1.2	H	31.87	47.86	54	6.14
2484.76	28.52	PK	97	1.8	H	32.13	60.65	74	13.35
2484.76	16.26	Ave.	97	1.8	H	32.13	48.39	54	5.61
4944.00	45.31	PK	224	1.8	H	6.76	52.07	74	21.93
4944.00	33.64	Ave.	224	1.8	H	6.76	40.40	54	13.60

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)									
2388.41	28.71	PK	208	1.8	H	31.87	60.58	74	13.42
2388.41	15.47	Ave.	208	1.8	H	31.87	47.34	54	6.66
2484.55	28.56	PK	2	1.8	H	32.13	60.69	74	13.31
2484.55	15.51	Ave.	2	1.8	H	32.13	47.64	54	6.36
4824.00	44.15	PK	71	1.4	H	6.28	50.43	74	23.57
4824.00	30.31	Ave.	71	1.4	H	6.28	36.59	54	17.41
Middle Channel (2442 MHz)									
4884.00	44.09	PK	79	2.2	H	6.76	50.85	74	23.15
4884.00	30.39	Ave.	79	2.2	H	6.76	37.15	54	16.85
High Channel (2472 MHz)									
2384.85	28.31	PK	223	2.1	H	31.87	60.18	74	13.82
2384.85	15.52	Ave.	223	2.1	H	31.87	47.39	54	6.61
2483.99	29.12	PK	240	2.4	H	32.13	61.25	74	12.75
2483.99	15.88	Ave.	240	2.4	H	32.13	48.01	54	5.99
4944.00	44.35	PK	118	1.2	H	6.76	51.11	74	22.89
4944.00	30.67	Ave.	118	1.2	H	6.76	37.43	54	16.57

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)									
2389.45	28.78	PK	73	1.4	H	31.87	60.65	74	13.35
2389.45	15.67	Ave.	73	1.4	H	31.87	47.54	54	6.46
2484.71	28.96	PK	80	2.0	H	32.13	61.09	74	12.91
2484.71	15.72	Ave.	80	2.0	H	32.13	47.85	54	6.15
4824.00	44.05	PK	75	1.7	H	6.28	50.33	74	23.67
4824.00	30.33	Ave.	75	1.7	H	6.28	36.61	54	17.39
Middle Channel (2442 MHz)									
4884.00	44.29	PK	97	2.3	H	6.76	51.05	74	22.95
4884.00	30.44	Ave.	97	2.3	H	6.76	37.20	54	16.80
High Channel (2472 MHz)									
2388.64	28.83	PK	65	1.6	H	31.87	60.70	74	13.30
2388.64	15.72	Ave.	65	1.6	H	31.87	47.59	54	6.41
2484.59	28.68	PK	196	1.4	H	32.13	60.81	74	13.19
2484.59	15.69	Ave.	196	1.4	H	32.13	47.82	54	6.18
4944.00	44.45	PK	230	2.4	H	6.76	51.21	74	22.79
4944.00	30.64	Ave.	230	2.4	H	6.76	37.40	54	16.60

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)									
2388.99	29.05	PK	212	2.2	H	31.87	60.92	74	13.08
2388.99	16.27	Ave.	212	2.2	H	31.87	48.14	54	5.86
2485.12	29.21	PK	120	1.2	H	32.13	61.34	74	12.66
2485.12	16.29	Ave.	120	1.2	H	32.13	48.42	54	5.58
4844.00	44.53	PK	349	1.7	H	6.28	50.81	74	23.19
4844.00	30.49	Ave.	349	1.7	H	6.28	36.77	54	17.23
Middle Channel (2442 MHz)									
4884.00	44.68	PK	194	1.4	H	6.76	51.44	74	22.56
4884.00	30.37	Ave.	194	1.4	H	6.76	37.13	54	16.87
High Channel (2462 MHz)									
2388.47	28.94	PK	66	1.8	H	31.87	60.81	74	13.19
2388.47	16.26	Ave.	66	1.8	H	31.87	48.13	54	5.87
2483.65	34.71	PK	271	1.3	H	32.13	66.84	74	7.16
2483.65	18.23	Ave.	271	1.3	H	32.13	50.36	54	3.64
4924.00	44.75	PK	233	2.4	H	6.76	51.51	74	22.49
4924.00	30.54	Ave.	233	2.4	H	6.76	37.30	54	16.70

Note:

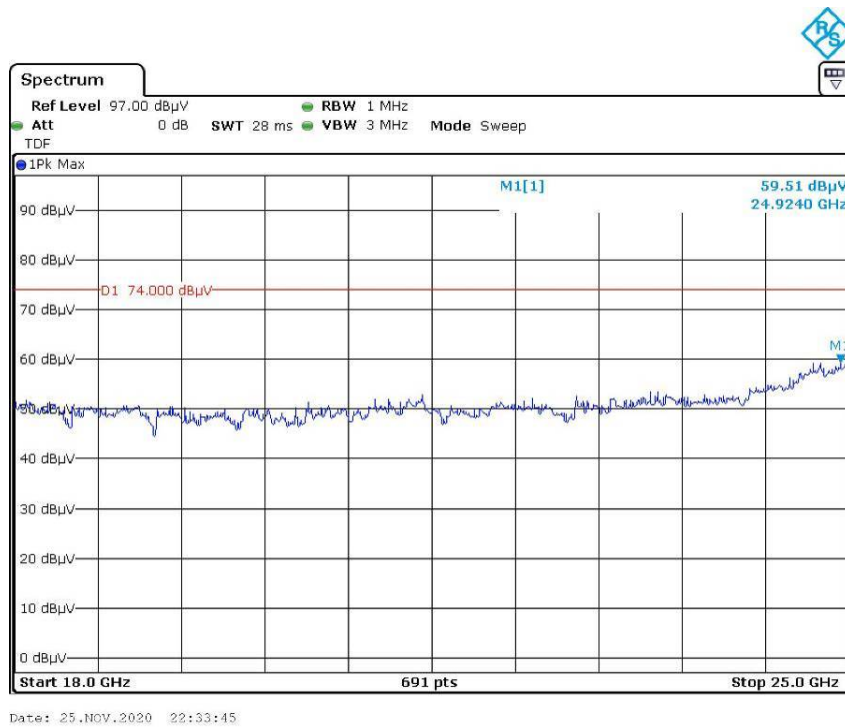
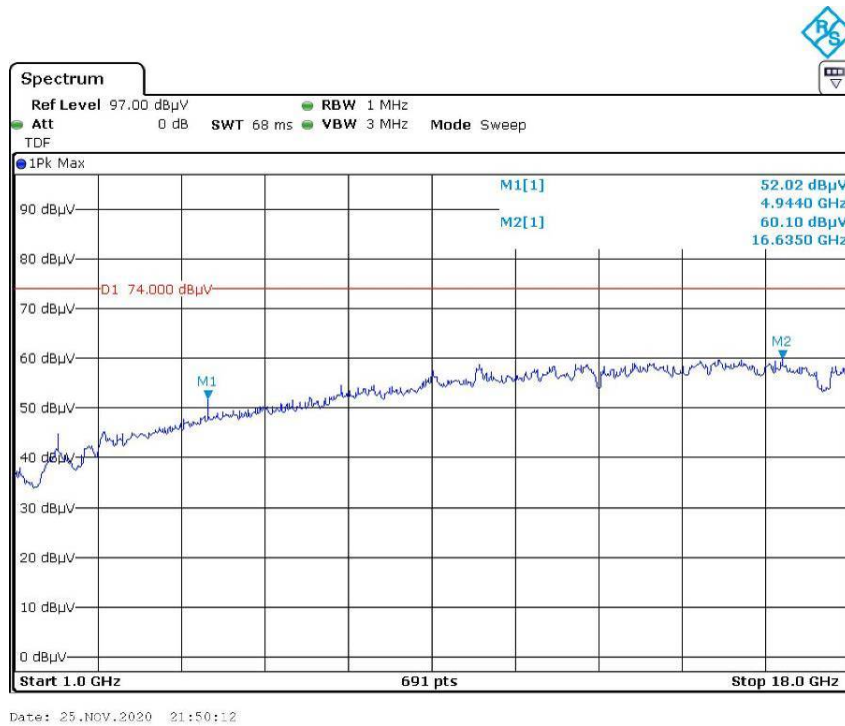
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

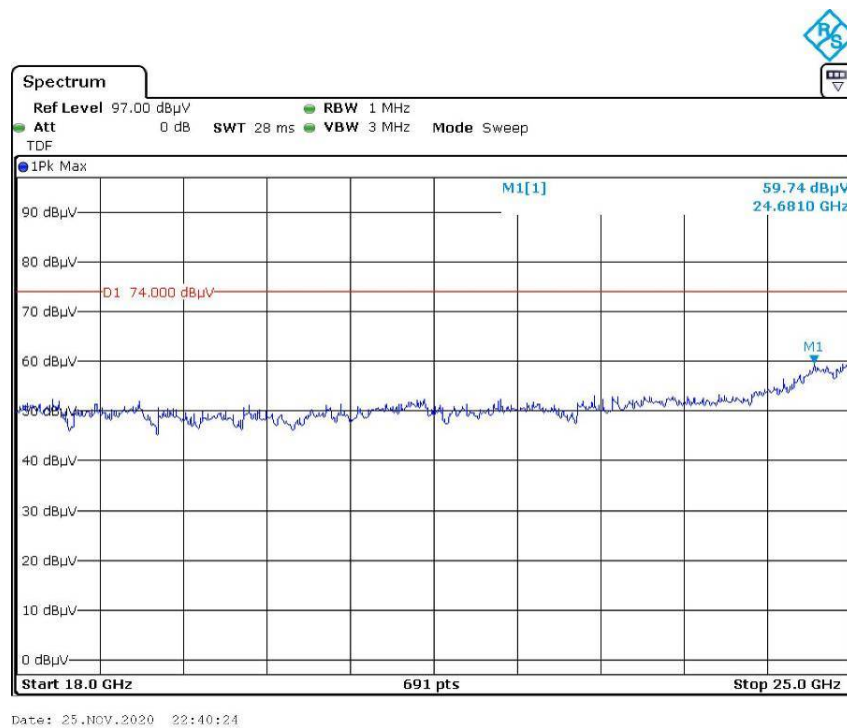
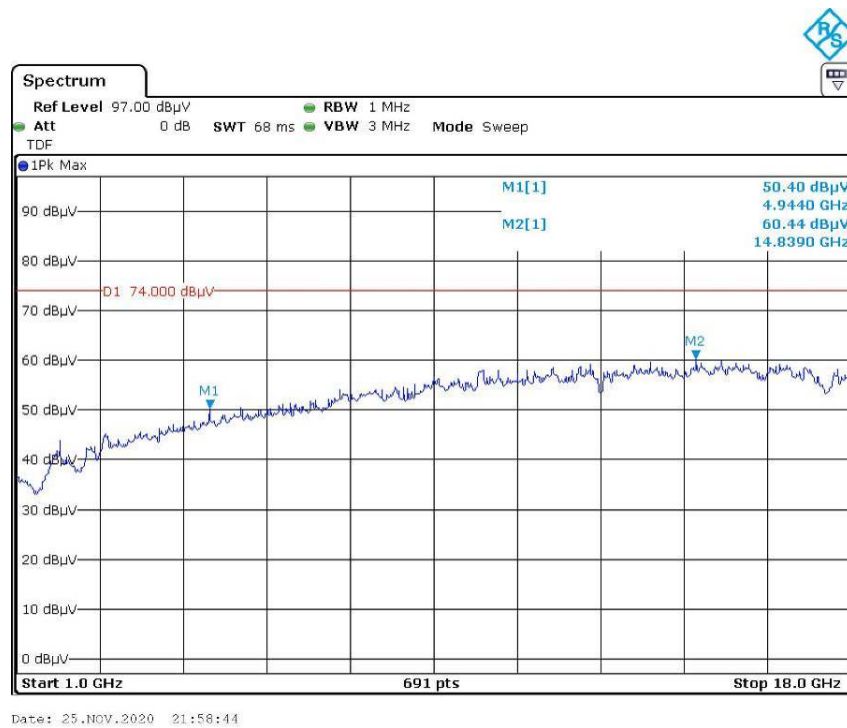
Margin = Limit - Corrected. Amplitude

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

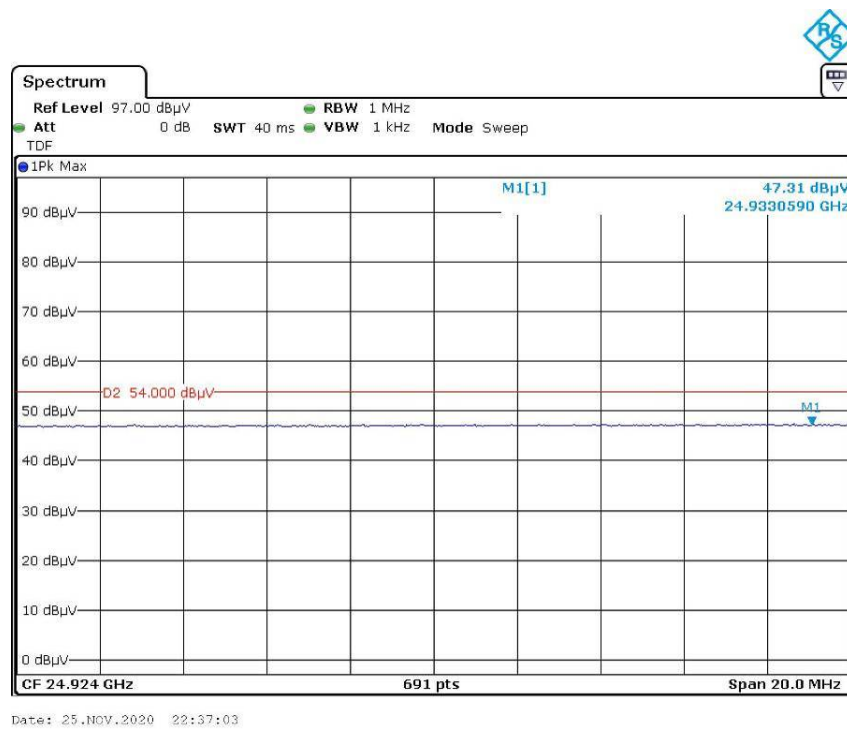
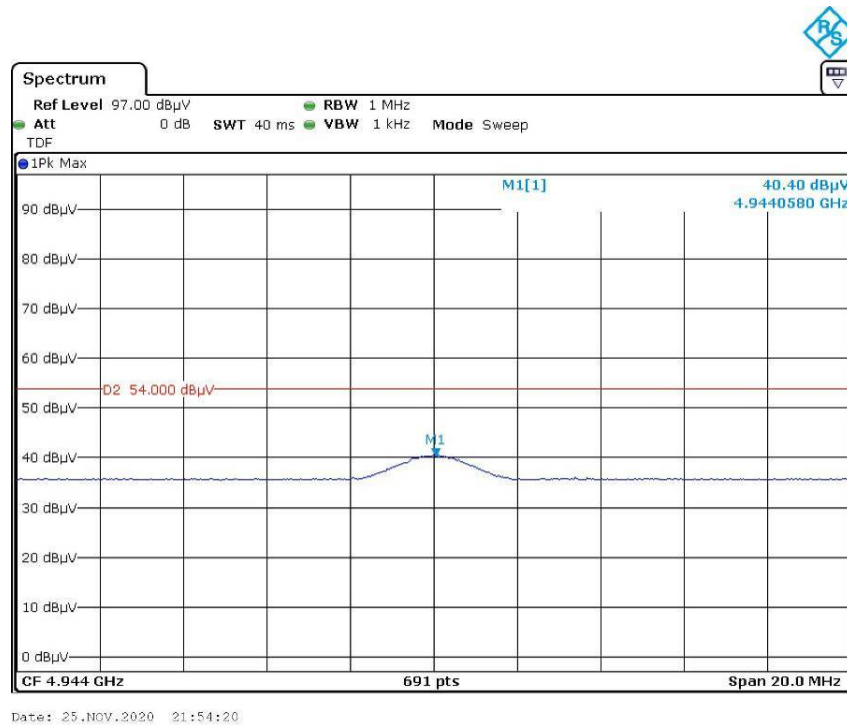
**Pre-scan with 802.11b Mode, High channel
Horizontal**



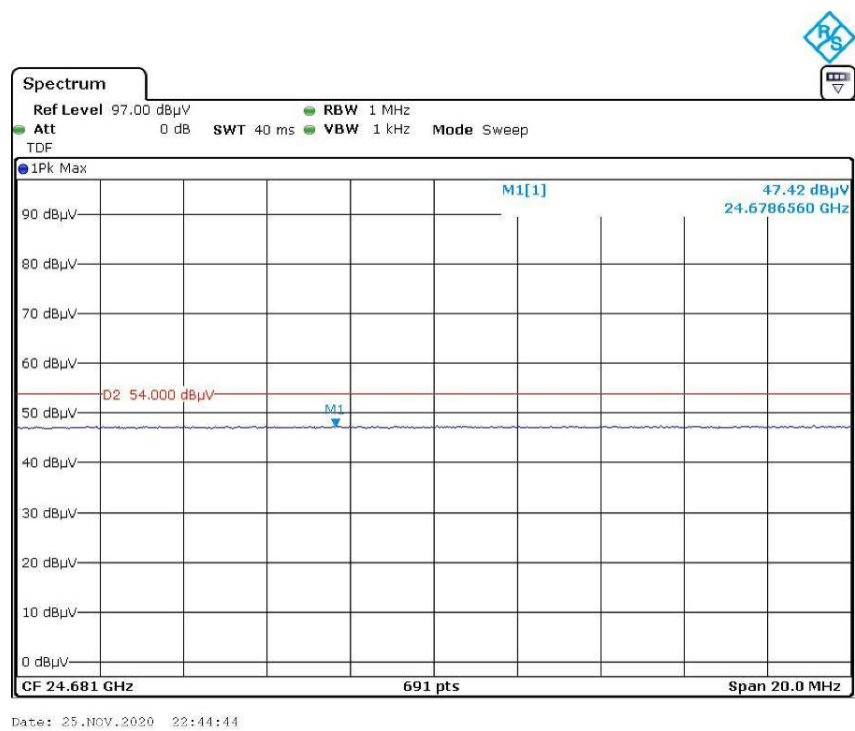
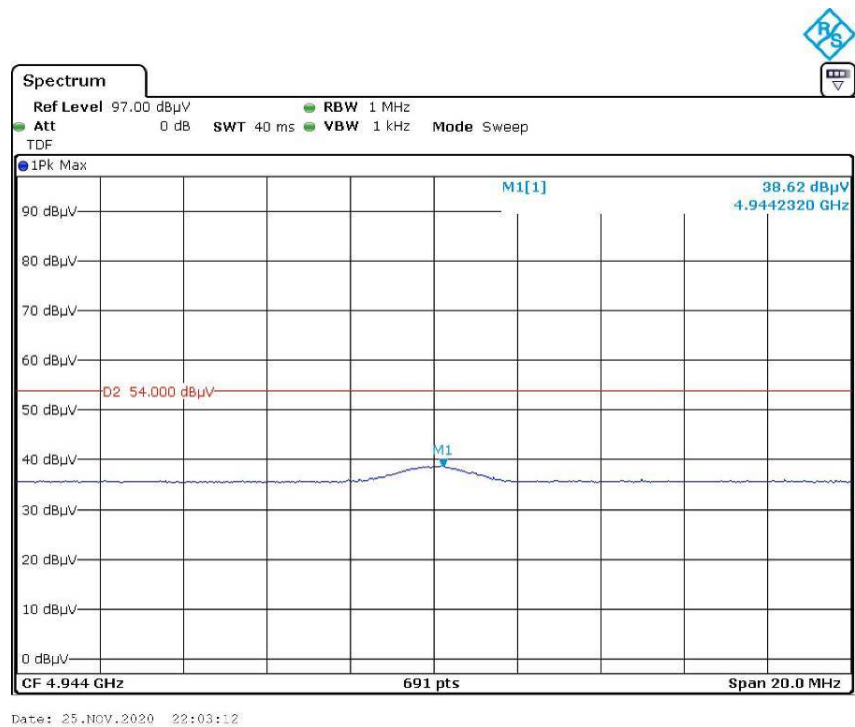
Vertical



Pre-scan for Average Horizontal



Vertical



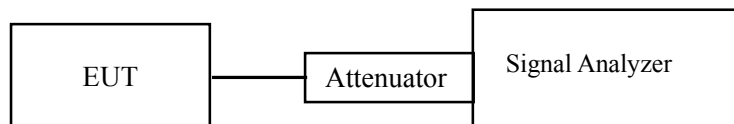
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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:	27 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2020-12-02 and 2020-12-04.

EUT operation mode: Transmitting (worst case is MIMO mode)

Test Result: Pass.

Please refer to the Appendix.

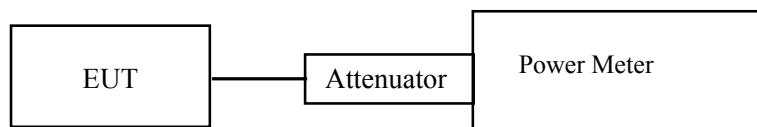
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, 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:	27 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2020-12-02 and 2020-12-04.

EUT operation mode: Transmitting (worst case is MIMO mode)

Test Result: Pass.

Please refer to the Appendix.

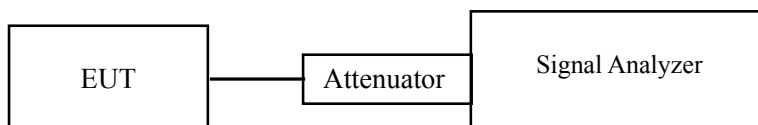
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates 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:	27 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2020-12-02 and 2020-12-04.

EUT operation mode: Transmitting (worst case is MIMO mode)

Test Result: Pass.

Please refer to the Appendix.

Note: The result is more than 3dB lower than the limit test in single port, so it will comply with the limit in simultaneously transmitting condition.

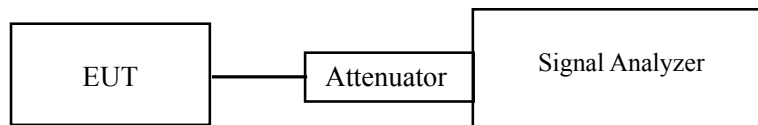
FCC §15.247(e) - POWER SPECTRAL DENSITY

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:	27 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2020-12-02 and 2020-12-04.

EUT operation mode: Transmitting (worst case is MIMO mode)

Test Result: Pass.

Please refer to the Appendix.

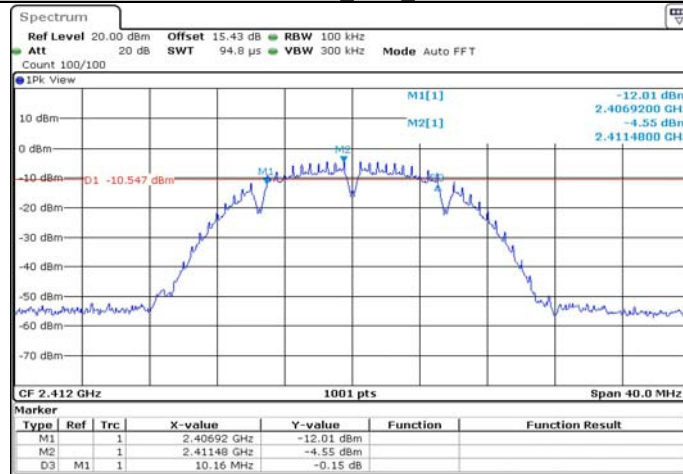
APPENDIX

Appendix A: DTS Bandwidth Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11BMIMO	Ant1	2412	10.160	0.5	PASS
	Ant2	2412	10.160	0.5	PASS
	Ant1	2442	10.160	0.5	PASS
	Ant2	2442	10.160	0.5	PASS
	Ant1	2472	10.160	0.5	PASS
	Ant2	2472	10.160	0.5	PASS
11GMIMO	Ant1	2412	16.120	0.5	PASS
	Ant2	2412	16.360	0.5	PASS
	Ant1	2442	15.880	0.5	PASS
	Ant2	2442	16.400	0.5	PASS
	Ant1	2472	16.400	0.5	PASS
	Ant2	2472	16.400	0.5	PASS
11N20MIMO	Ant1	2412	16.480	0.5	PASS
	Ant2	2412	16.760	0.5	PASS
	Ant1	2442	15.520	0.5	PASS
	Ant2	2442	16.160	0.5	PASS
	Ant1	2472	17.640	0.5	PASS
	Ant2	2472	17.600	0.5	PASS
11N40MIMO	Ant1	2422	35.520	0.5	PASS
	Ant2	2422	35.280	0.5	PASS
	Ant1	2442	35.280	0.5	PASS
	Ant2	2442	35.280	0.5	PASS
	Ant1	2462	35.280	0.5	PASS
	Ant2	2462	35.280	0.5	PASS

Test Graphs

11BMIMO_Ant1_2412



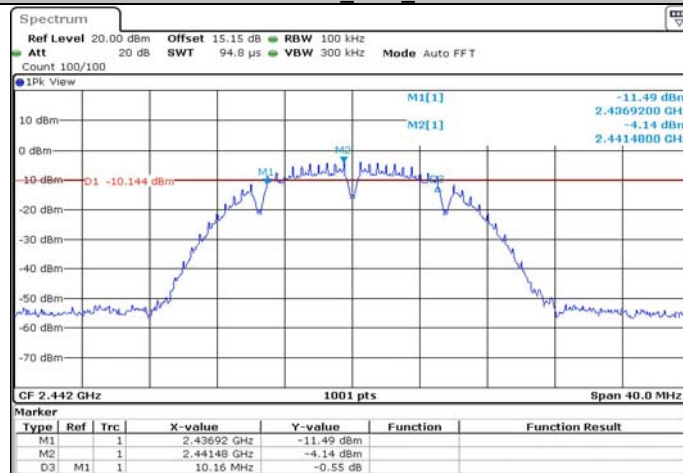
Date: 2.DEC.2020 14:16:59

11BMIMO_Ant2_2412



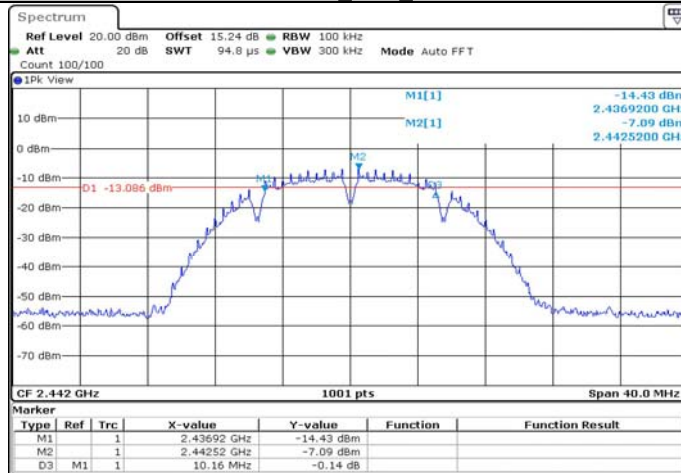
Date: 2.DEC.2020 14:35:33

11BMIMO_Ant1_2442



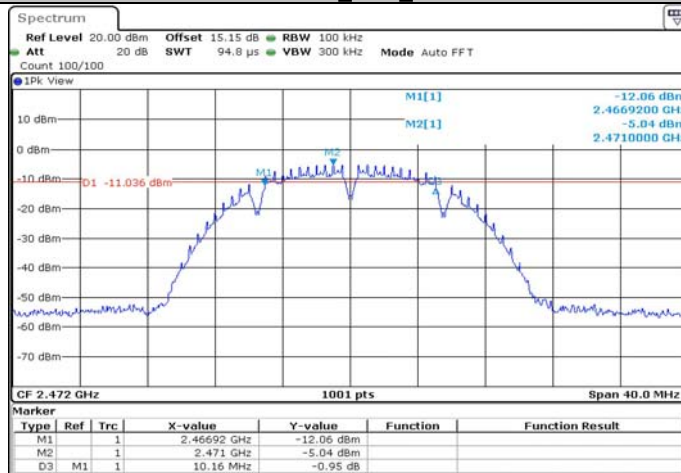
Date: 2.DEC.2020 15:39:22

11BMIMO_Ant2_2442



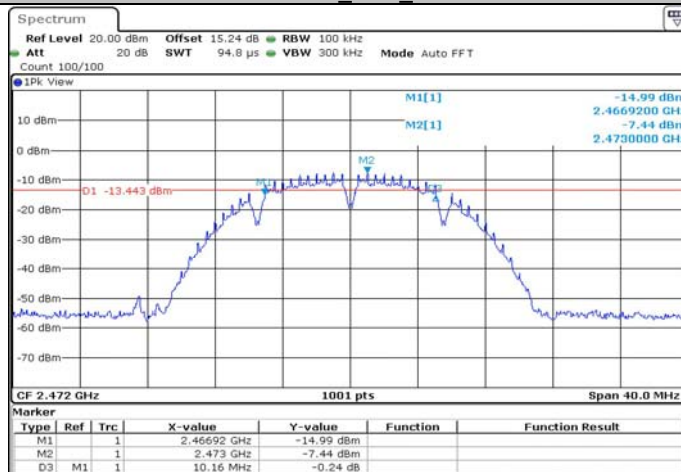
Date: 2.DEC.2020 15:40:23

11BMIMO_Ant1_2472

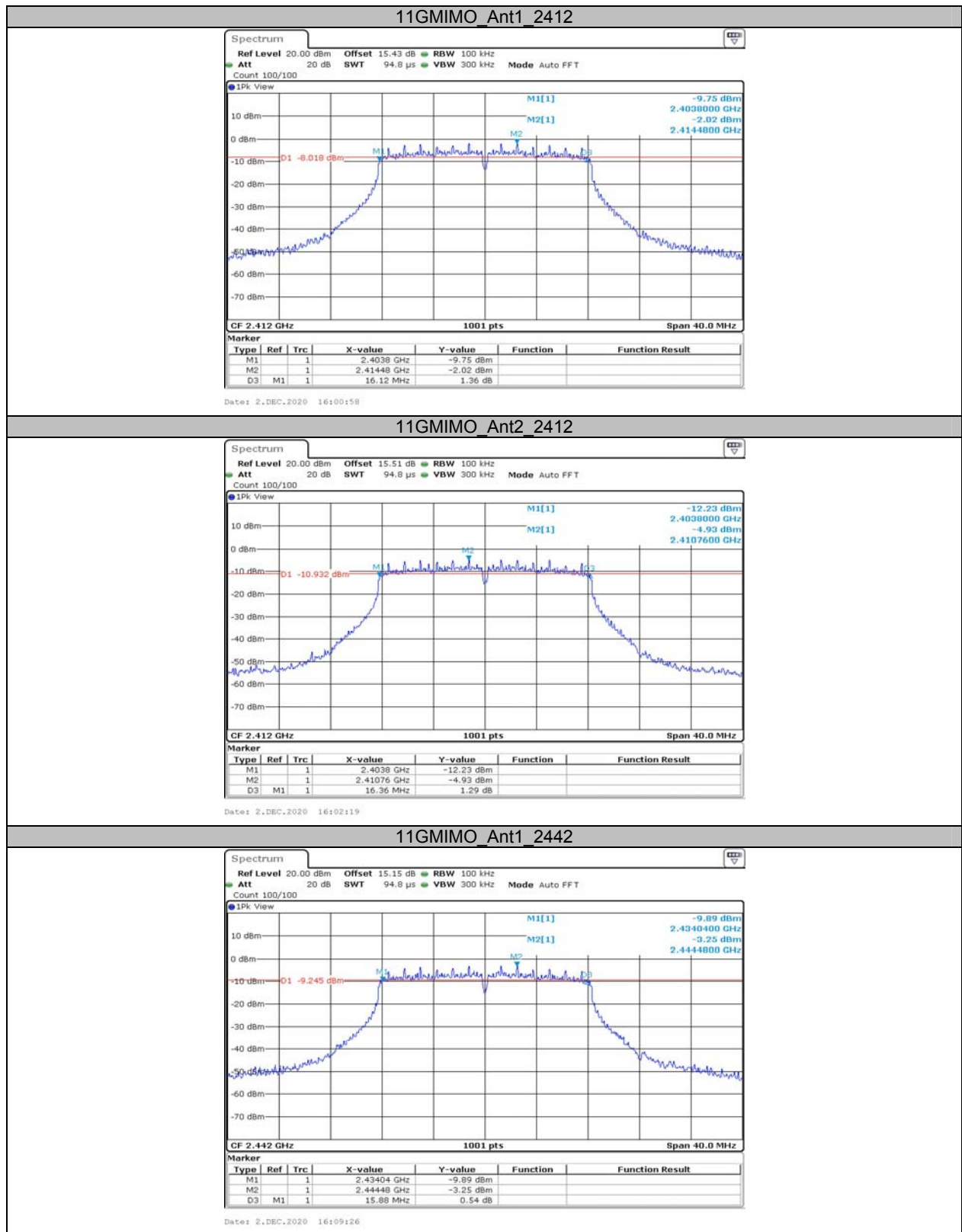


Date: 2.DEC.2020 15:42:12

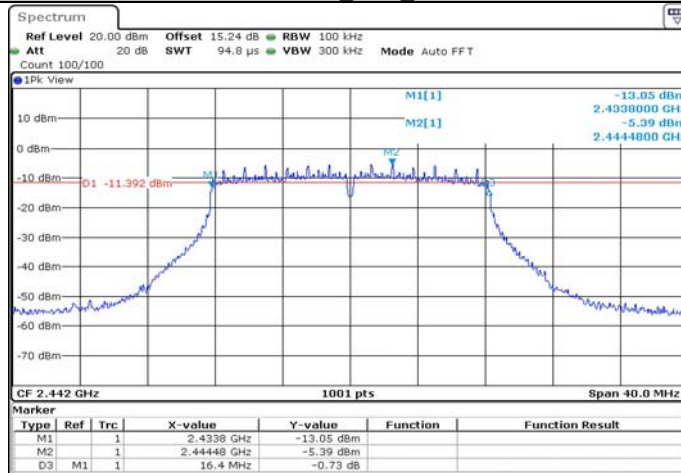
11BMIMO_Ant2_2472



Date: 2.DEC.2020 15:54:18

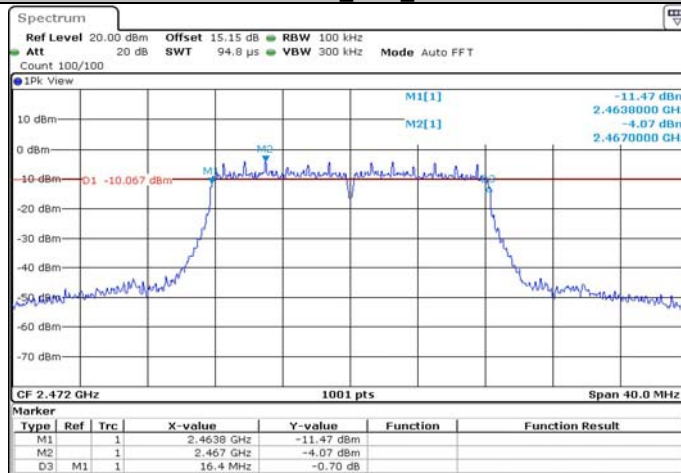


11GMIMO_Ant2_2442



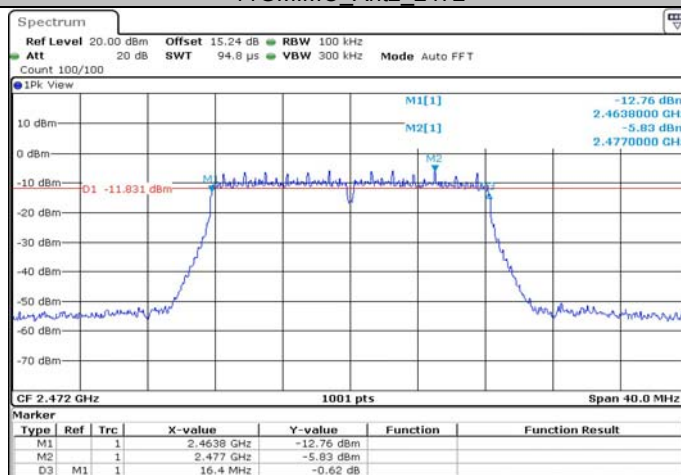
Date: 2.DEC.2020 16:10:10

11GMIMO_Ant1_2472



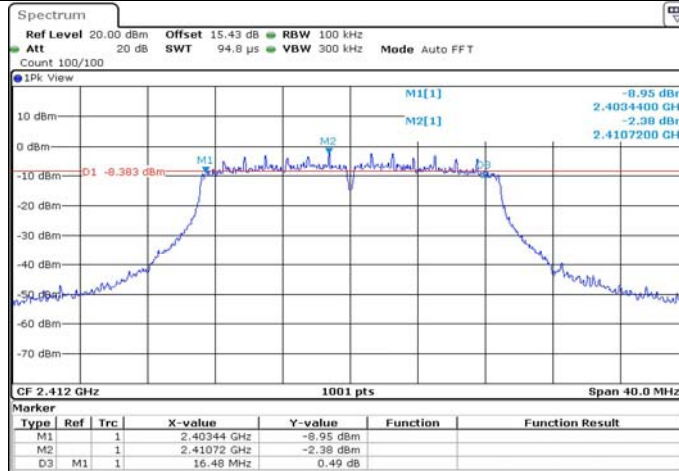
Date: 2.DEC.2020 16:13:40

11GMIMO_Ant2_2472



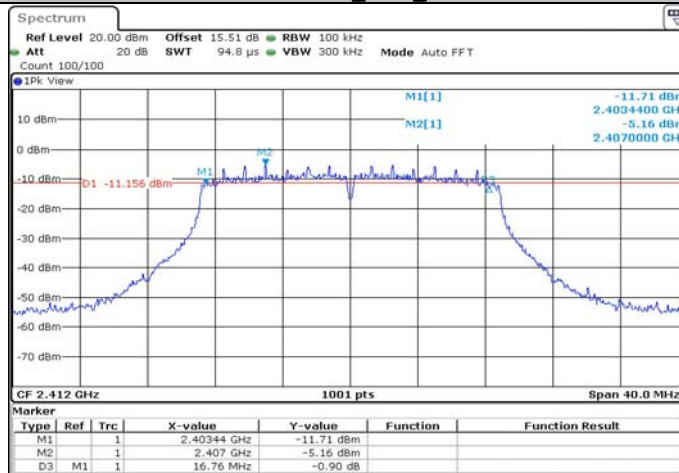
Date: 2.DEC.2020 16:14:31

11N20MIMO_Ant1_2412



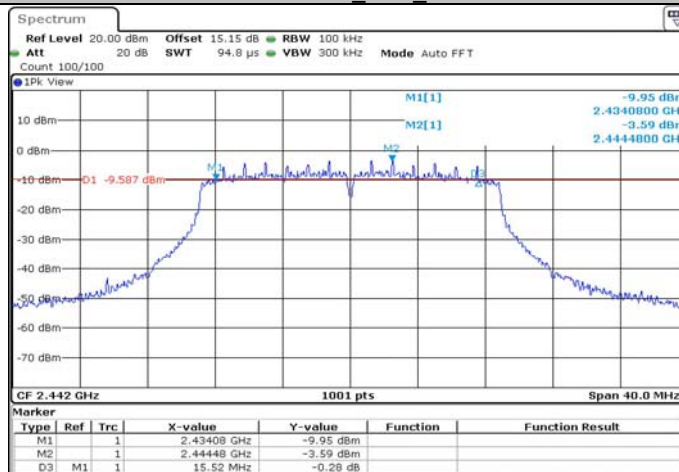
Date: 2.DEC.2020 16:20:34

11N20MIMO_Ant2_2412



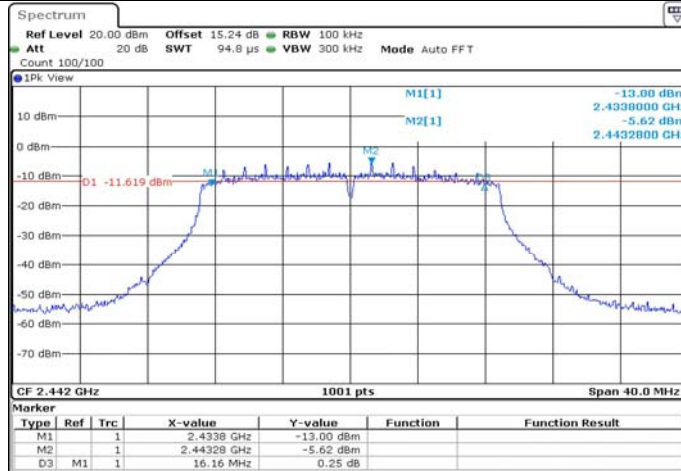
Date: 2.DEC.2020 16:21:33

11N20MIMO_Ant1_2442



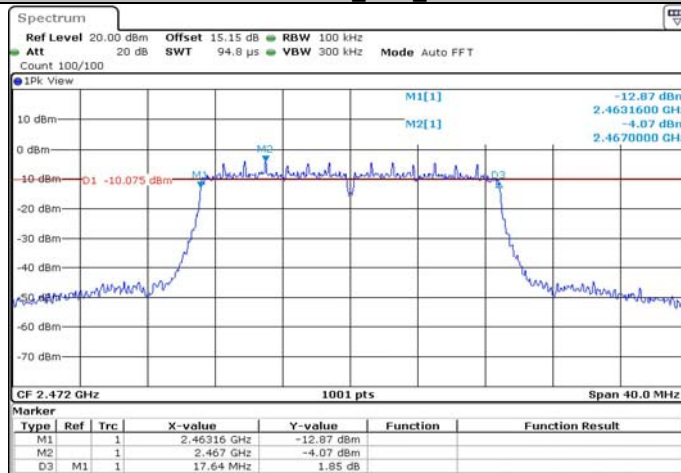
Date: 2.DEC.2020 16:23:28

11N20MIMO_Ant2_2442



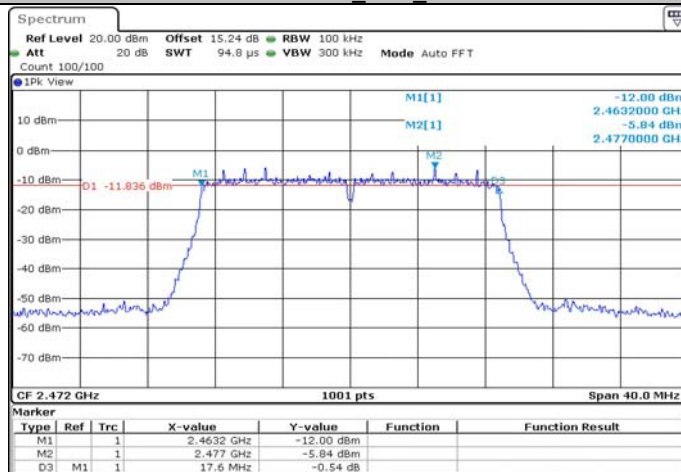
Date: 2.DEC.2020 16:25:39

11N20MIMO_Ant1_2472



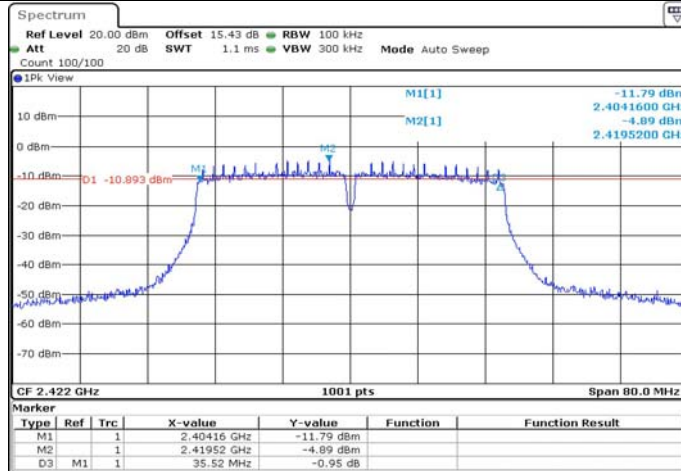
Date: 2.DEC.2020 16:27:26

11N20MIMO_Ant2_2472



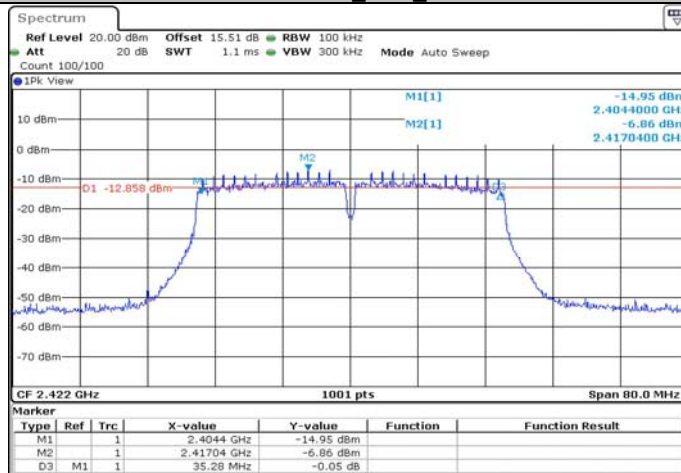
Date: 2.DEC.2020 16:28:28

11N40MIMO_Ant1_2422



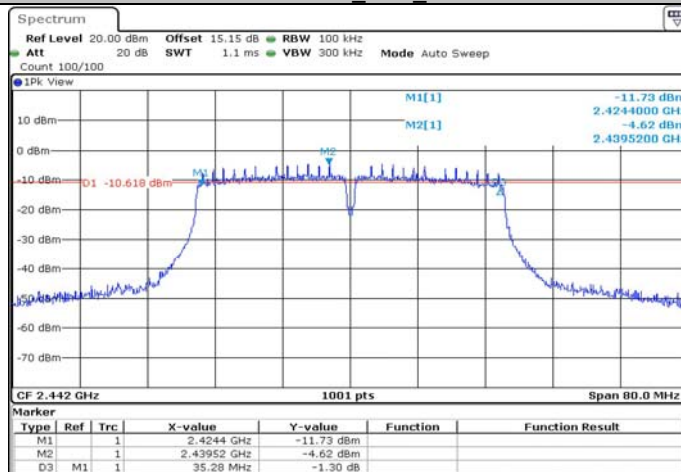
Date: 2.DEC.2020 16:31:37

11N40MIMO_Ant2_2422

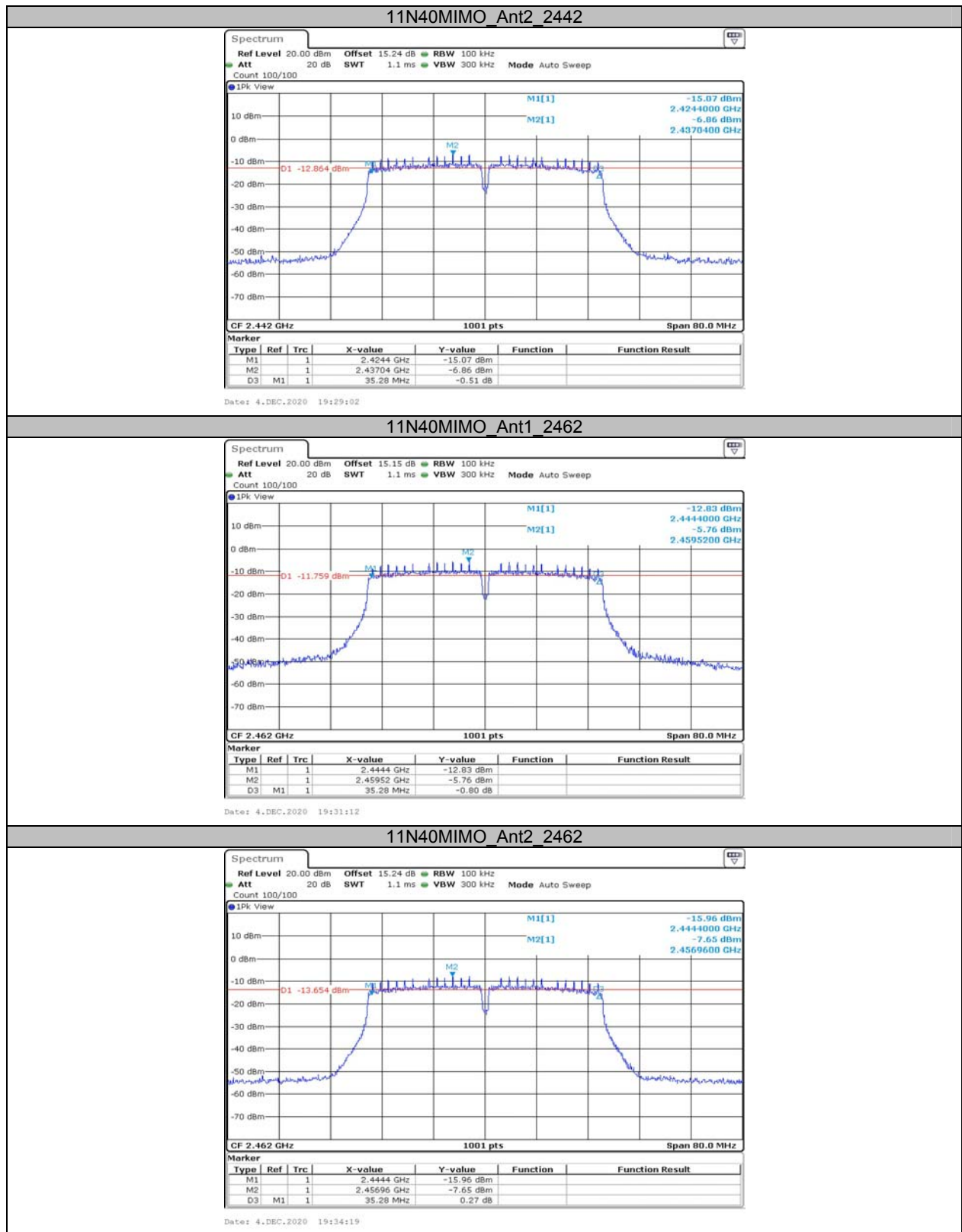


Date: 2.DEC.2020 16:32:36

11N40MIMO_Ant1_2442



Date: 4.DEC.2020 19:27:46

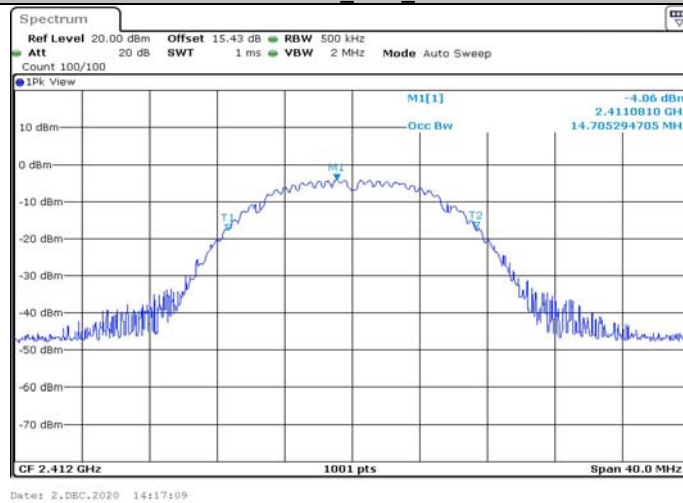


Appendix B: Occupied Channel Bandwidth Test Result

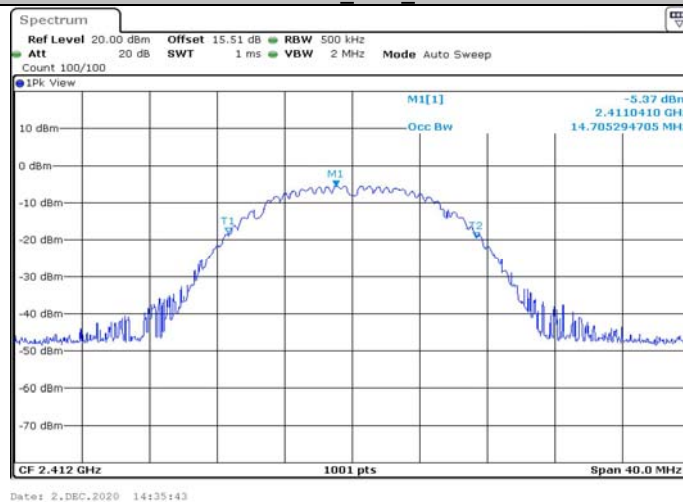
TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
11BMIMO	Ant1	2412	14.705	---	PASS
	Ant2	2412	14.705	---	PASS
	Ant1	2442	14.745	---	PASS
	Ant2	2442	14.745	---	PASS
	Ant1	2472	14.745	---	PASS
	Ant2	2472	14.745	---	PASS
11GMIMO	Ant1	2412	17.103	---	PASS
	Ant2	2412	16.783	---	PASS
	Ant1	2442	17.103	---	PASS
	Ant2	2442	16.743	---	PASS
	Ant1	2472	16.623	---	PASS
	Ant2	2472	16.503	---	PASS
11N20MIMO	Ant1	2412	17.982	---	PASS
	Ant2	2412	17.982	---	PASS
	Ant1	2442	18.262	---	PASS
	Ant2	2442	18.182	---	PASS
	Ant1	2472	17.702	---	PASS
	Ant2	2472	17.662	---	PASS
11N40MIMO	Ant1	2422	36.523	---	PASS
	Ant2	2422	36.603	---	PASS
	Ant1	2442	36.523	---	PASS
	Ant2	2442	36.523	---	PASS
	Ant1	2462	36.683	---	PASS
	Ant2	2462	36.603	---	PASS

Test Graphs

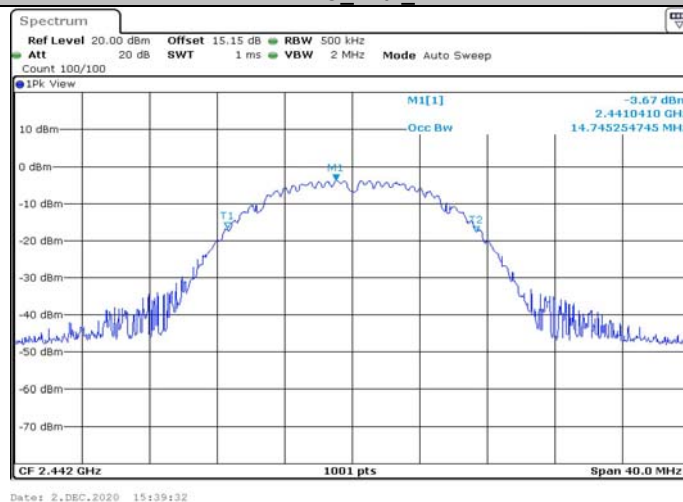
11BMIMO_Ant1_2412



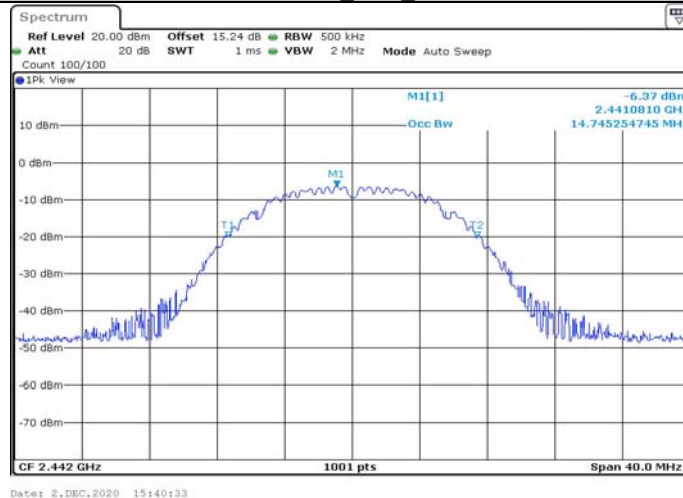
11BMIMO_Ant2_2412



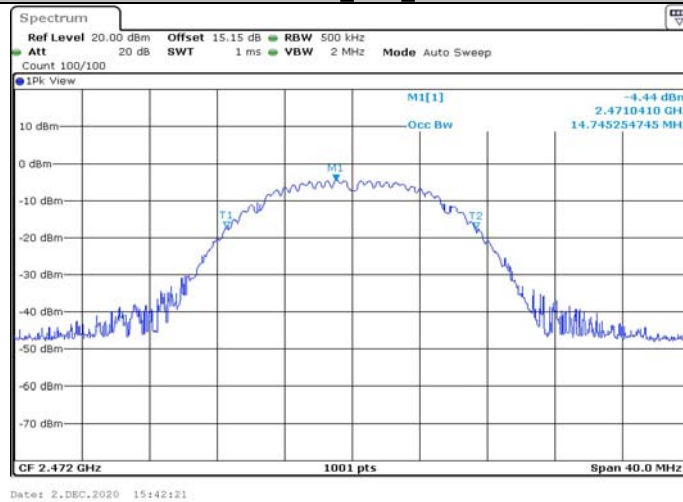
11BMIMO_Ant1_2442



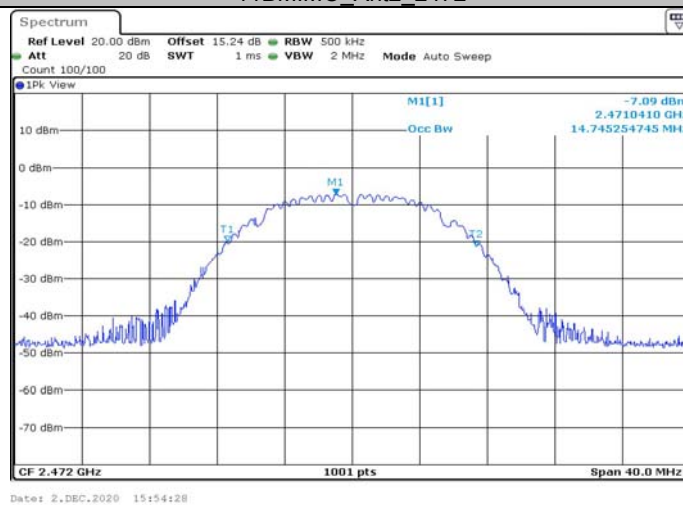
11BMIMO_Ant2_2442



11BMIMO_Ant1_2472



11BMIMO_Ant2_2472



11GMIMO_Ant1_2412

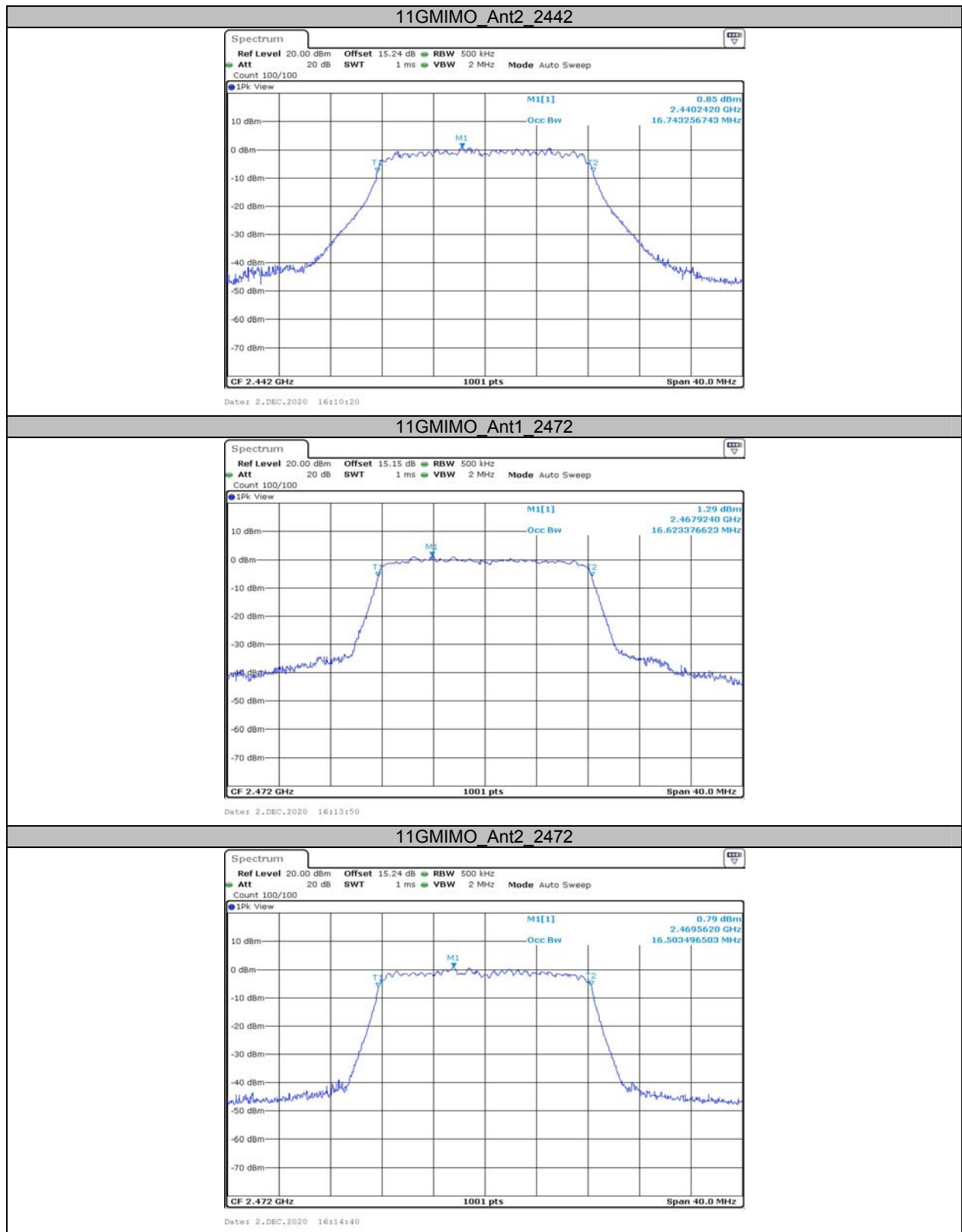


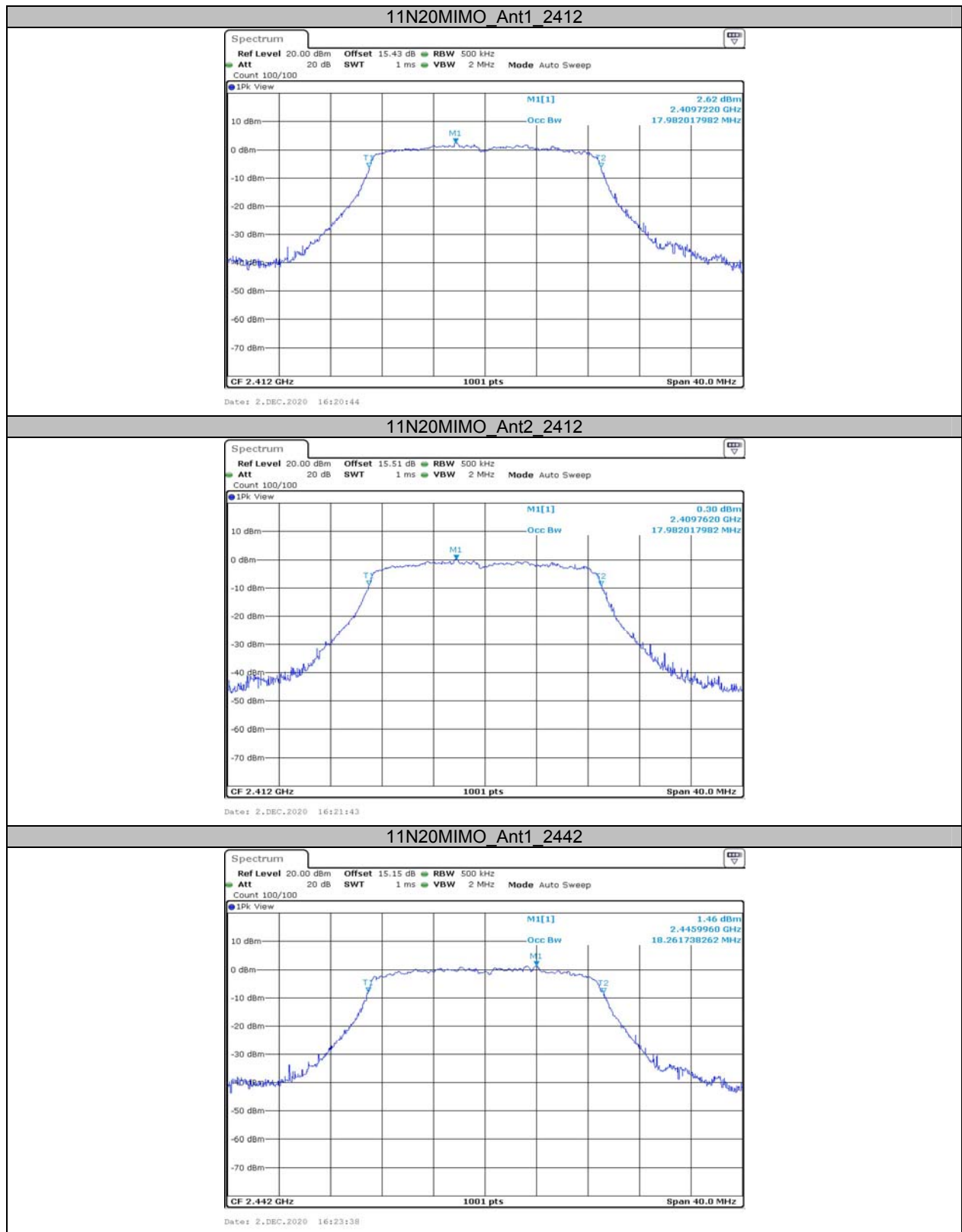
11GMIMO_Ant2_2412

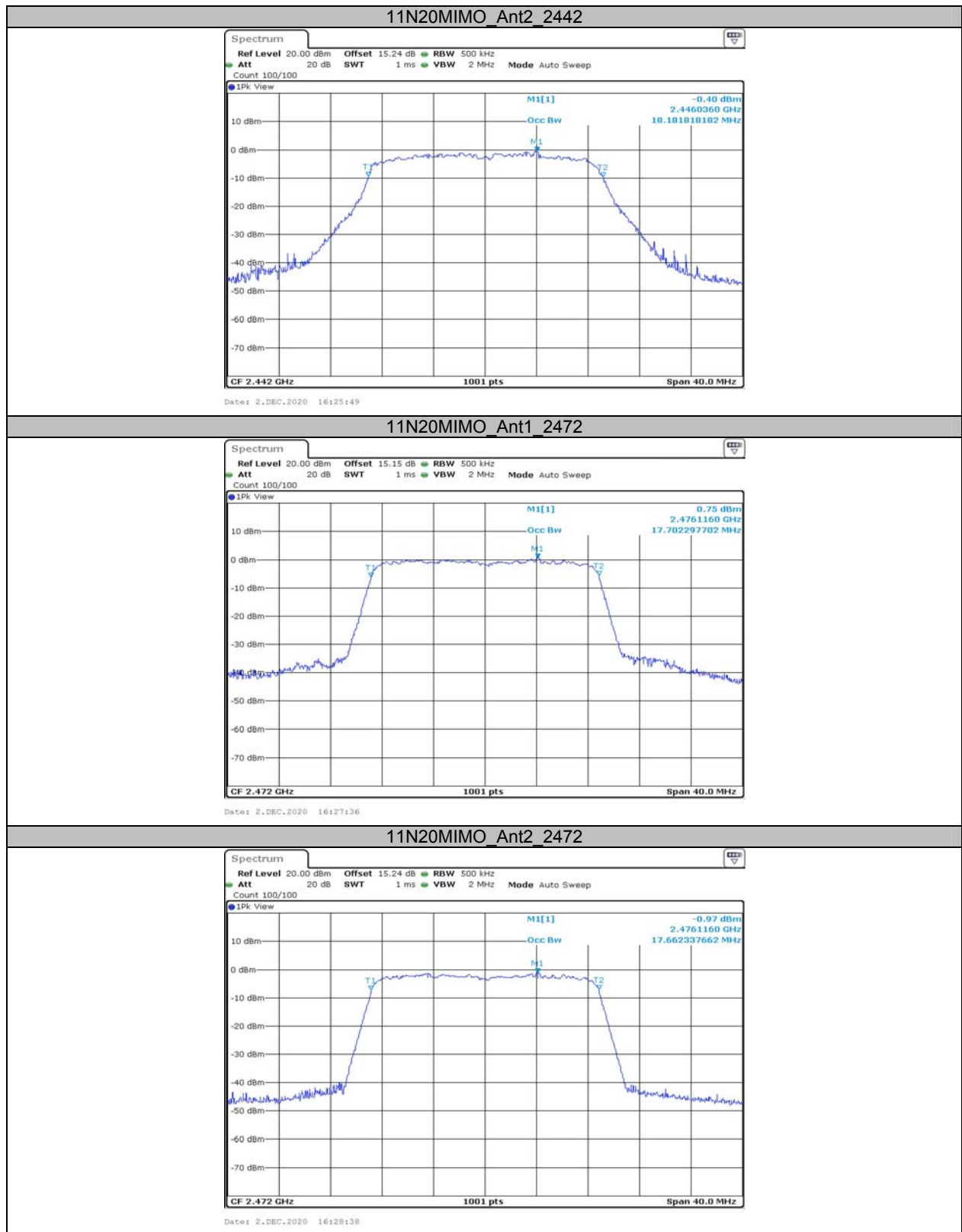


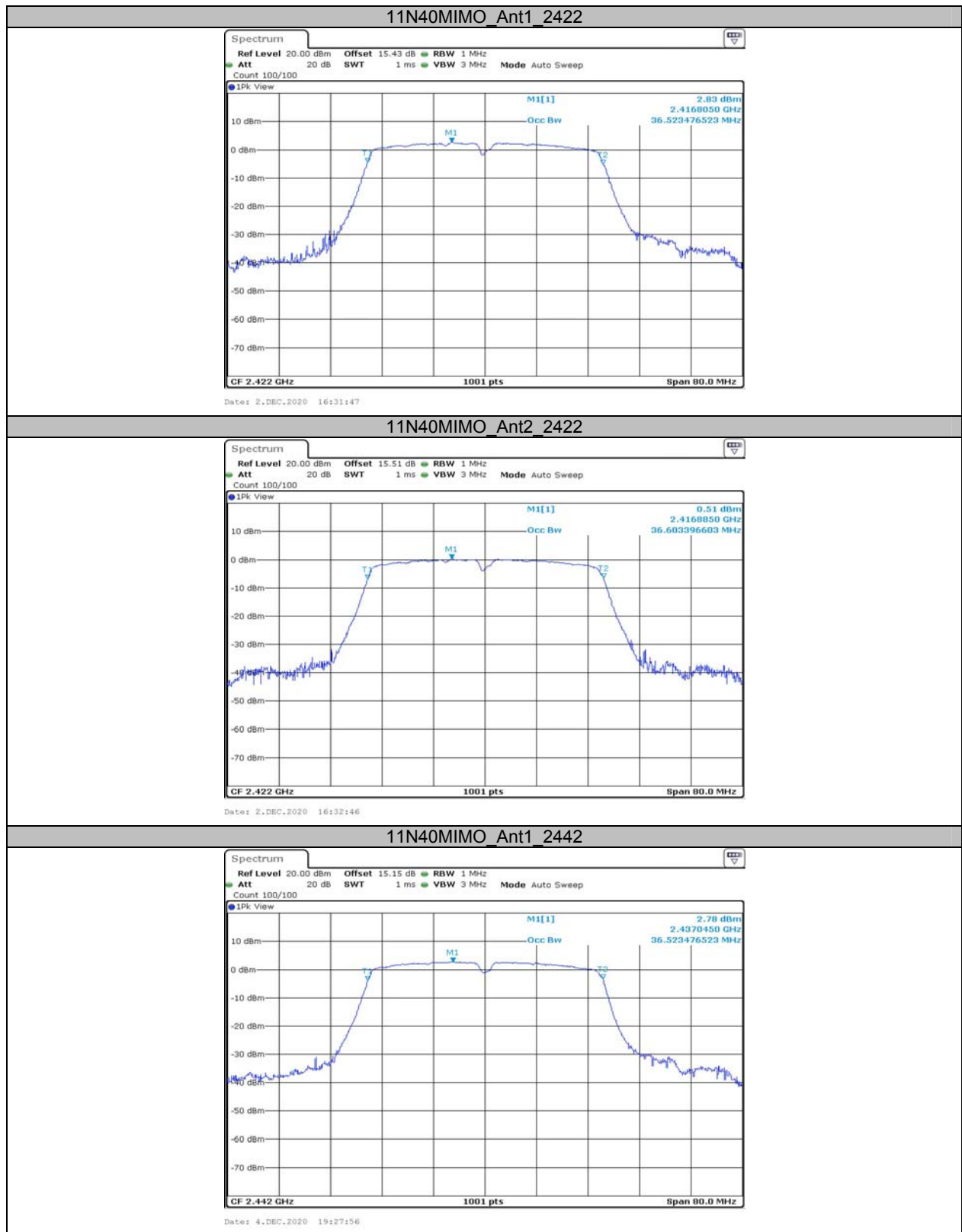
11GMIMO_Ant1_2442

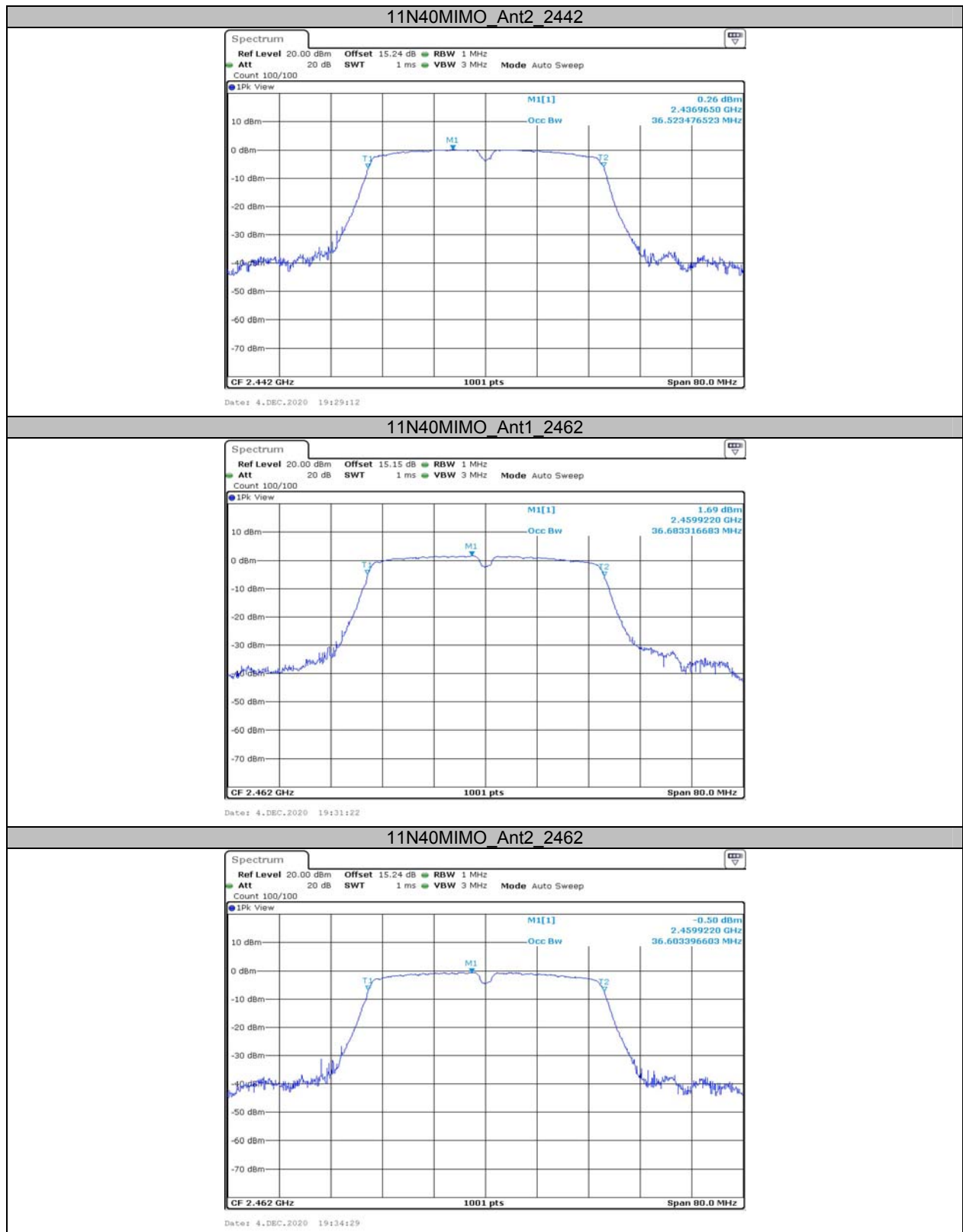












Appendix C: Maximum conducted peak output power Test Result

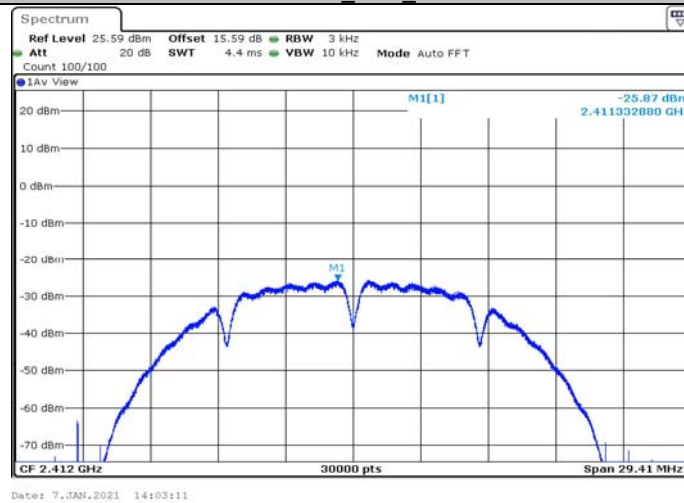
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11BMIMO	Ant1	2412	7.03	<=30	PASS
	Ant2	2412	4.32	<=30	PASS
	total	2412	8.9	<=30	PASS
	Ant1	2442	6.74	<=30	PASS
	Ant2	2442	4.06	<=30	PASS
	total	2442	8.6	<=30	PASS
	Ant1	2472	5.81	<=30	PASS
	Ant2	2472	3.39	<=30	PASS
11GMIMO	total	2472	7.8	<=30	PASS
	Ant1	2412	14.81	<=30	PASS
	Ant2	2412	11.77	<=30	PASS
	total	2412	16.6	<=30	PASS
	Ant1	2442	14.60	<=30	PASS
	Ant2	2442	12.47	<=30	PASS
	total	2442	16.7	<=30	PASS
	Ant1	2472	13.04	<=30	PASS
11N20MIMO	Ant2	2472	11.22	<=30	PASS
	total	2472	15.2	<=30	PASS
	Ant1	2412	13.71	<=30	PASS
	Ant2	2412	11.56	<=30	PASS
	total	2412	15.8	<=30	PASS
	Ant1	2442	12.83	<=30	PASS
	Ant2	2442	11.05	<=30	PASS
	total	2442	15.0	<=30	PASS
11N40MIMO	Ant1	2472	12.24	<=30	PASS
	Ant2	2472	11.95	<=30	PASS
	total	2472	15.1	<=30	PASS
	Ant1	2422	12.78	<=30	PASS
	Ant2	2422	10.50	<=30	PASS
	total	2422	14.8	<=30	PASS
	Ant1	2442	12.93	<=30	PASS
	Ant2	2442	10.82	<=30	PASS
	total	2442	15.0	<=30	PASS
	Ant1	2462	12.01	<=30	PASS
	Ant2	2462	9.85	<=30	PASS
	total	2462	14.1	<=30	PASS

Appendix D: Maximum power spectral density Test Result

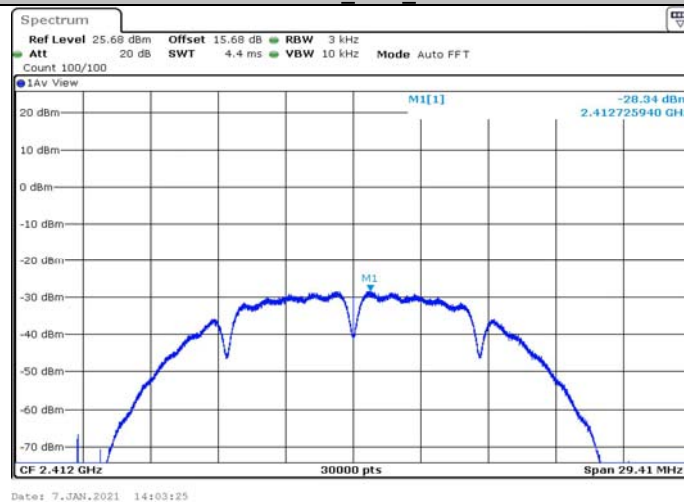
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11BMIMO	Ant1	2412	-25.87	<=8	PASS
	Ant2	2412	-28.34	<=8	PASS
	total	2412	-23.92	<=8	PASS
	Ant1	2442	-26.48	<=8	PASS
	Ant2	2442	-28.82	<=8	PASS
	total	2442	-24.48	<=8	PASS
	Ant1	2472	-27.28	<=8	PASS
	Ant2	2472	-29.67	<=8	PASS
	total	2472	-25.30	<=8	PASS
11GMIMO	Ant1	2412	-21.51	<=8	PASS
	Ant2	2412	-23.31	<=8	PASS
	total	2412	-19.31	<=8	PASS
	Ant1	2442	-22.25	<=8	PASS
	Ant2	2442	-24.65	<=8	PASS
	total	2442	-20.28	<=8	PASS
	Ant1	2472	-23.77	<=8	PASS
	Ant2	2472	-24.18	<=8	PASS
	total	2472	-20.96	<=8	PASS
11N20MIMO	Ant1	2412	-21.30	<=8	PASS
	Ant2	2412	-23.46	<=8	PASS
	total	2412	-19.24	<=8	PASS
	Ant1	2442	-22.72	<=8	PASS
	Ant2	2442	-24.60	<=8	PASS
	total	2442	-20.55	<=8	PASS
	Ant1	2472	-24.14	<=8	PASS
	Ant2	2472	-25.15	<=8	PASS
	total	2472	-21.61	<=8	PASS
11N40MIMO	Ant1	2422	-24.00	<=8	PASS
	Ant2	2422	-26.37	<=8	PASS
	total	2422	-22.01	<=8	PASS
	Ant1	2442	-25.14	<=8	PASS
	Ant2	2442	-25.91	<=8	PASS
	total	2442	-22.50	<=8	PASS
	Ant1	2462	-25.12	<=8	PASS
	Ant2	2462	-26.41	<=8	PASS
	total	2462	-22.71	<=8	PASS

Test Graphs

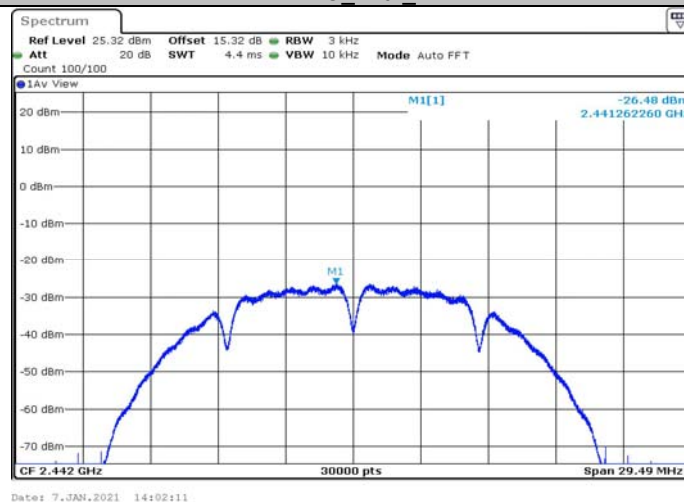
11BMIMO_Ant1_2412

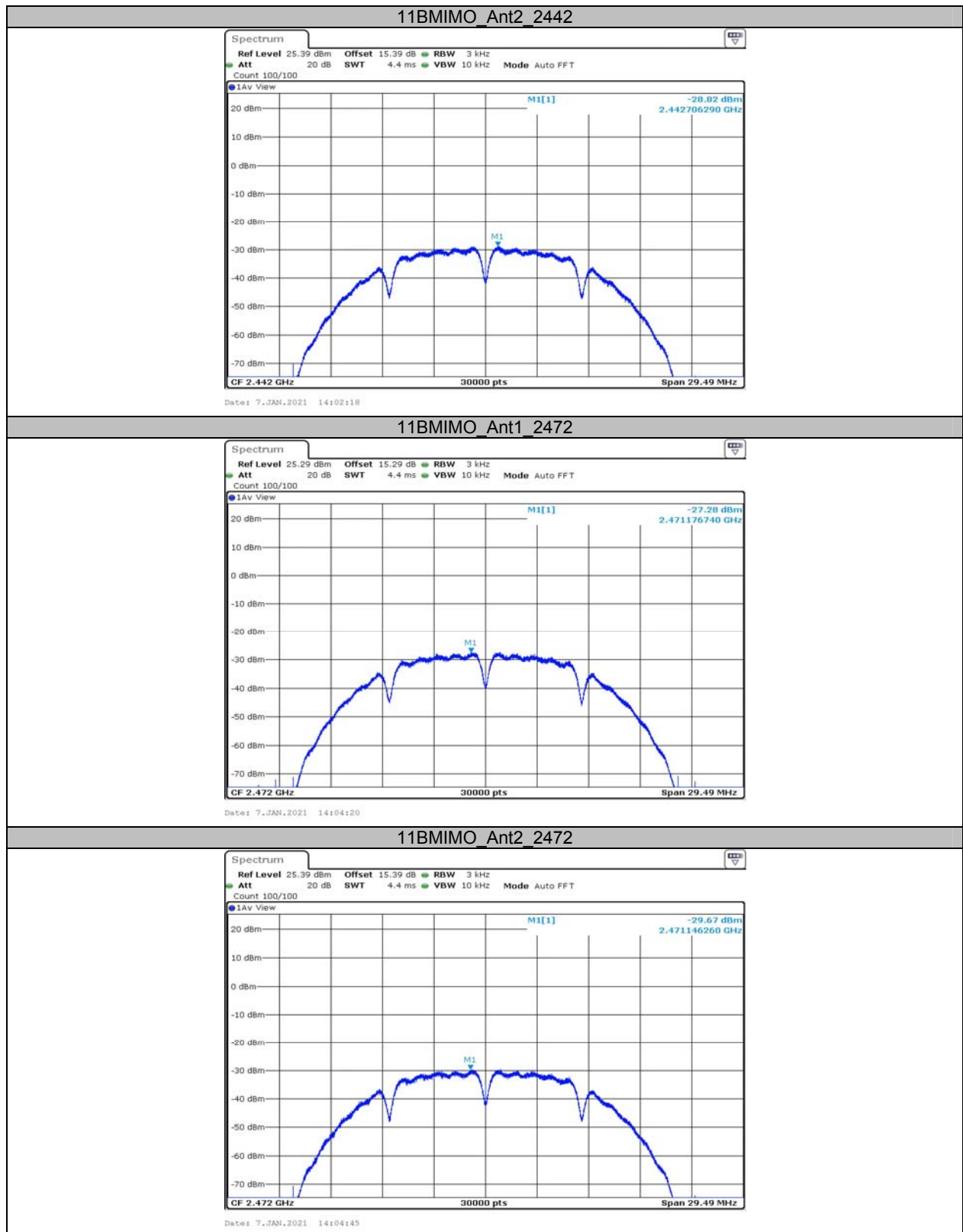


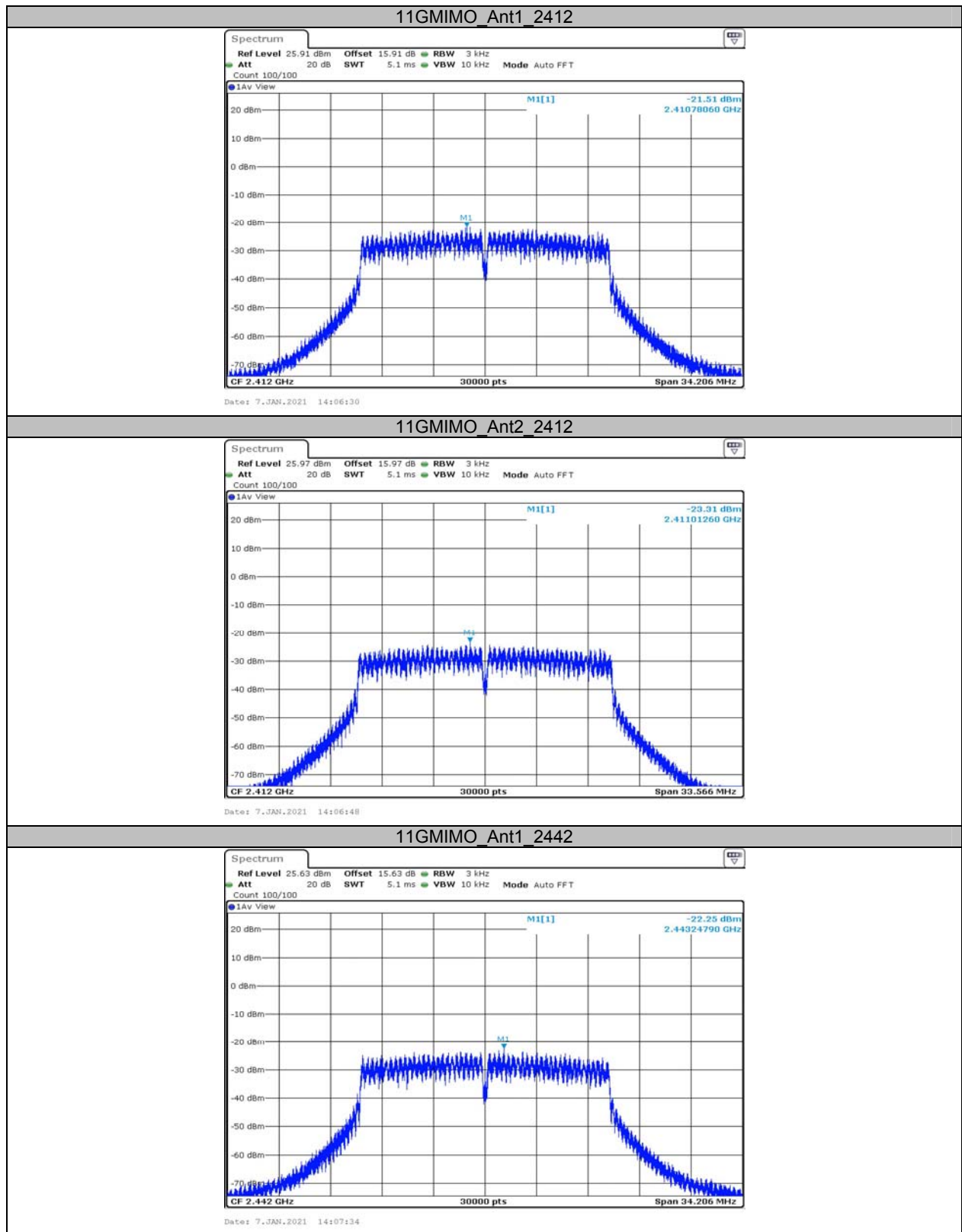
11BMIMO_Ant2_2412

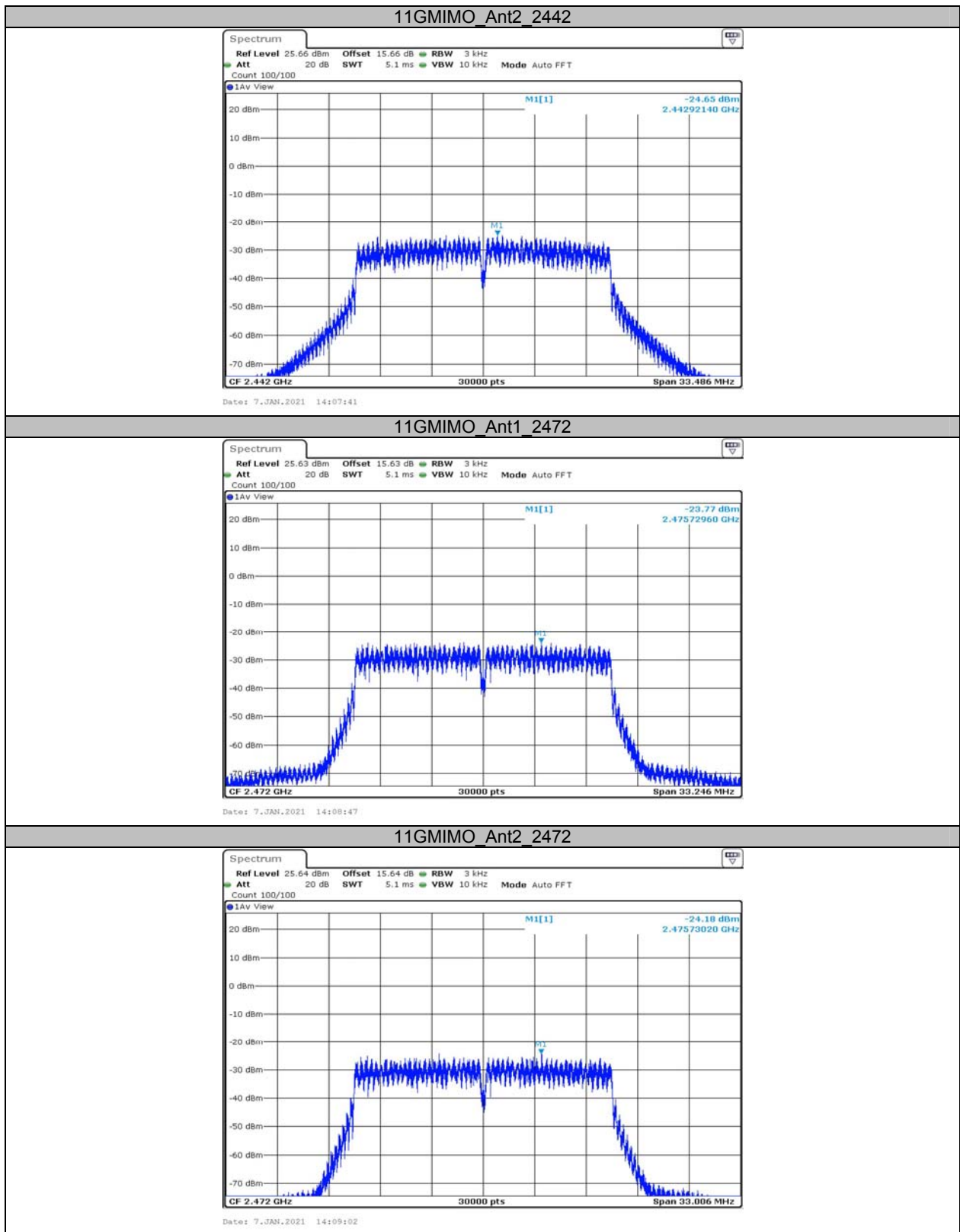


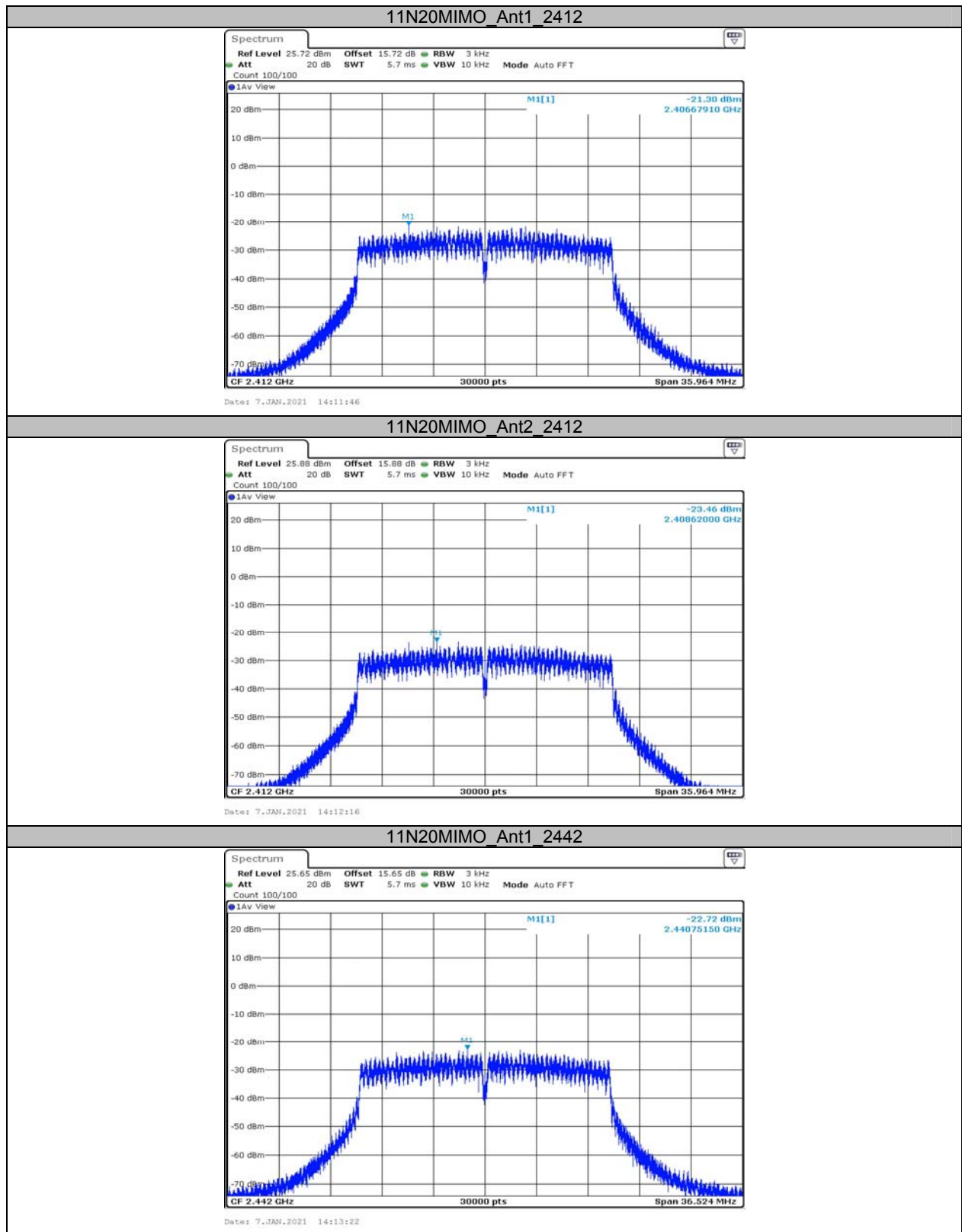
11BMIMO_Ant1_2442

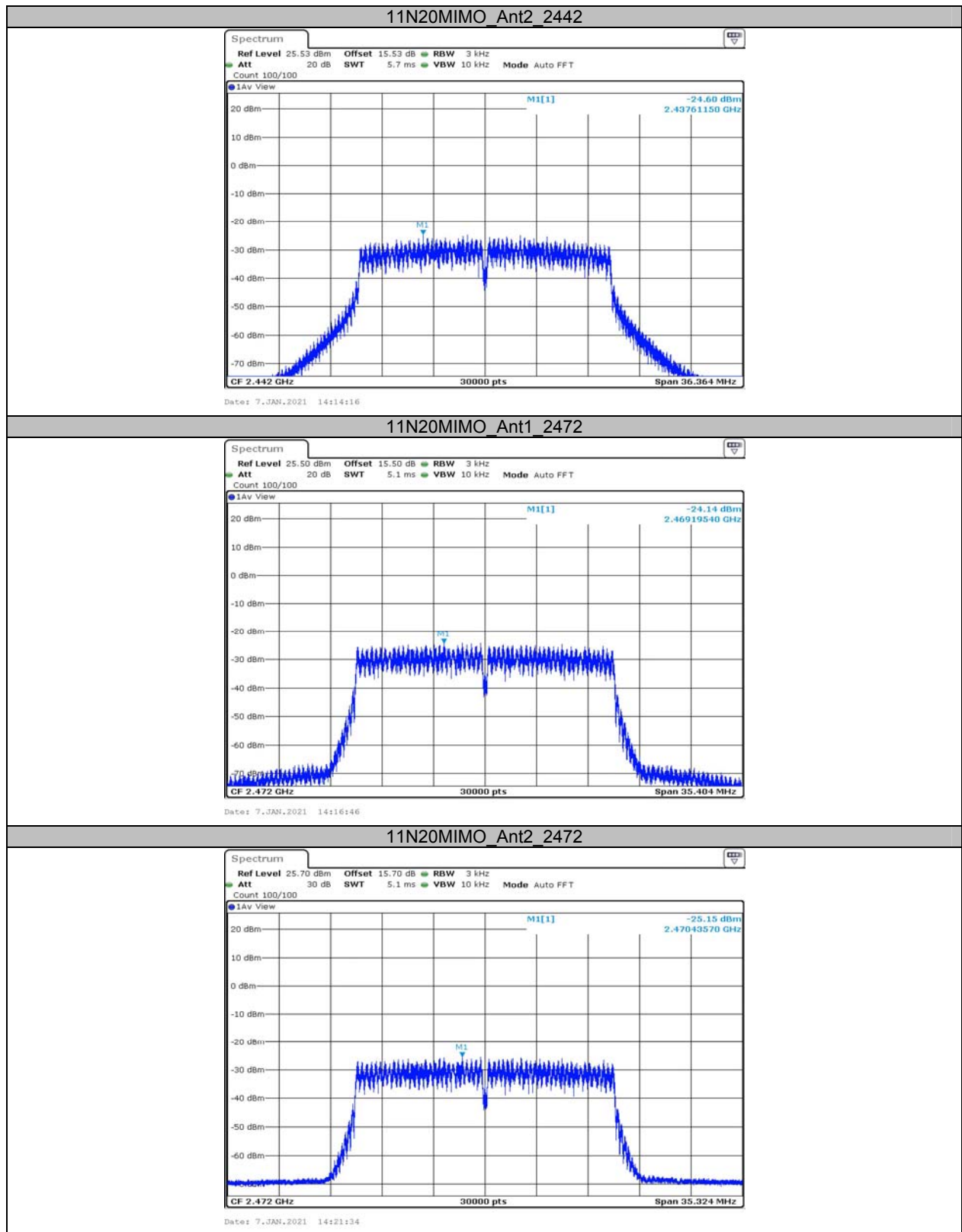


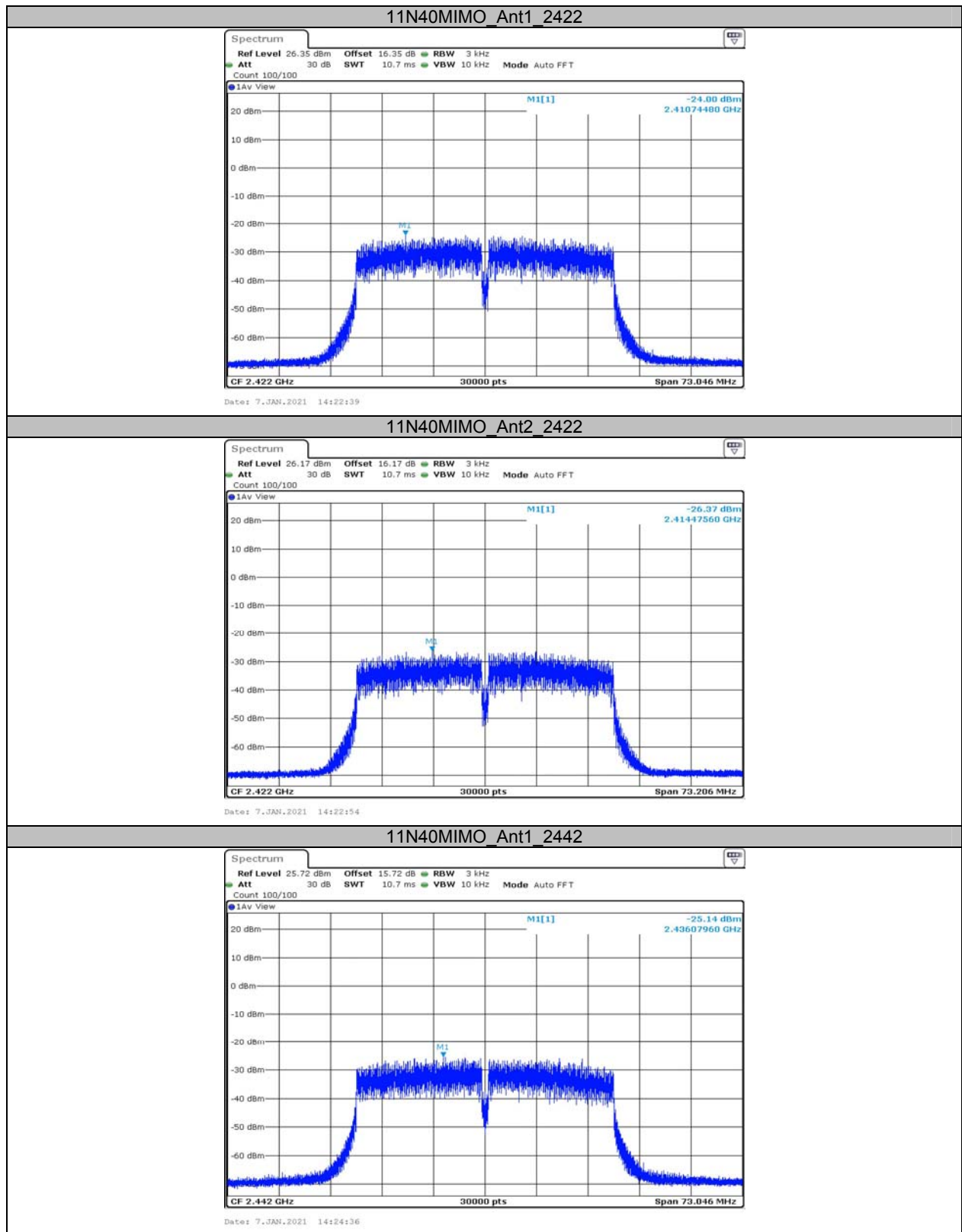


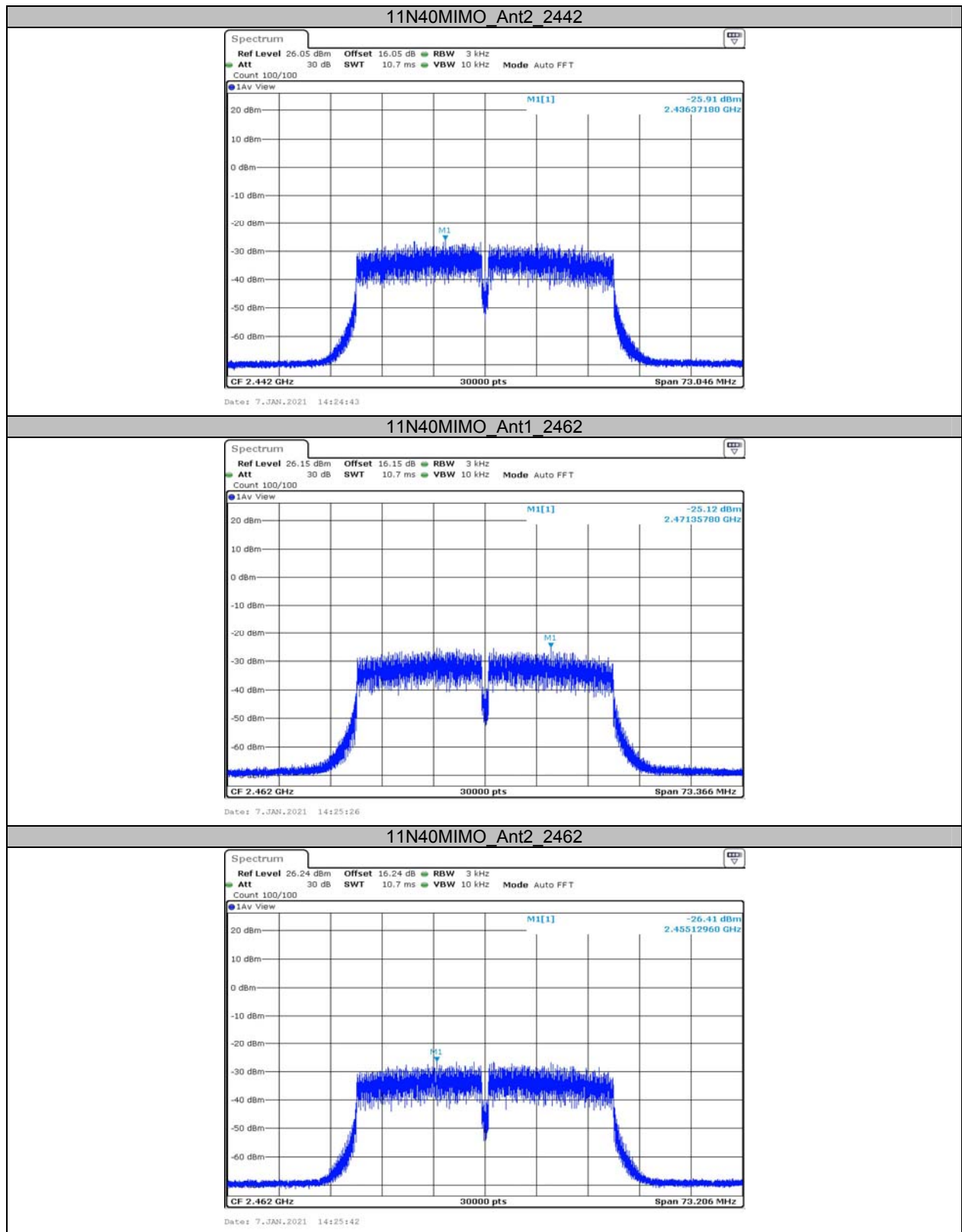


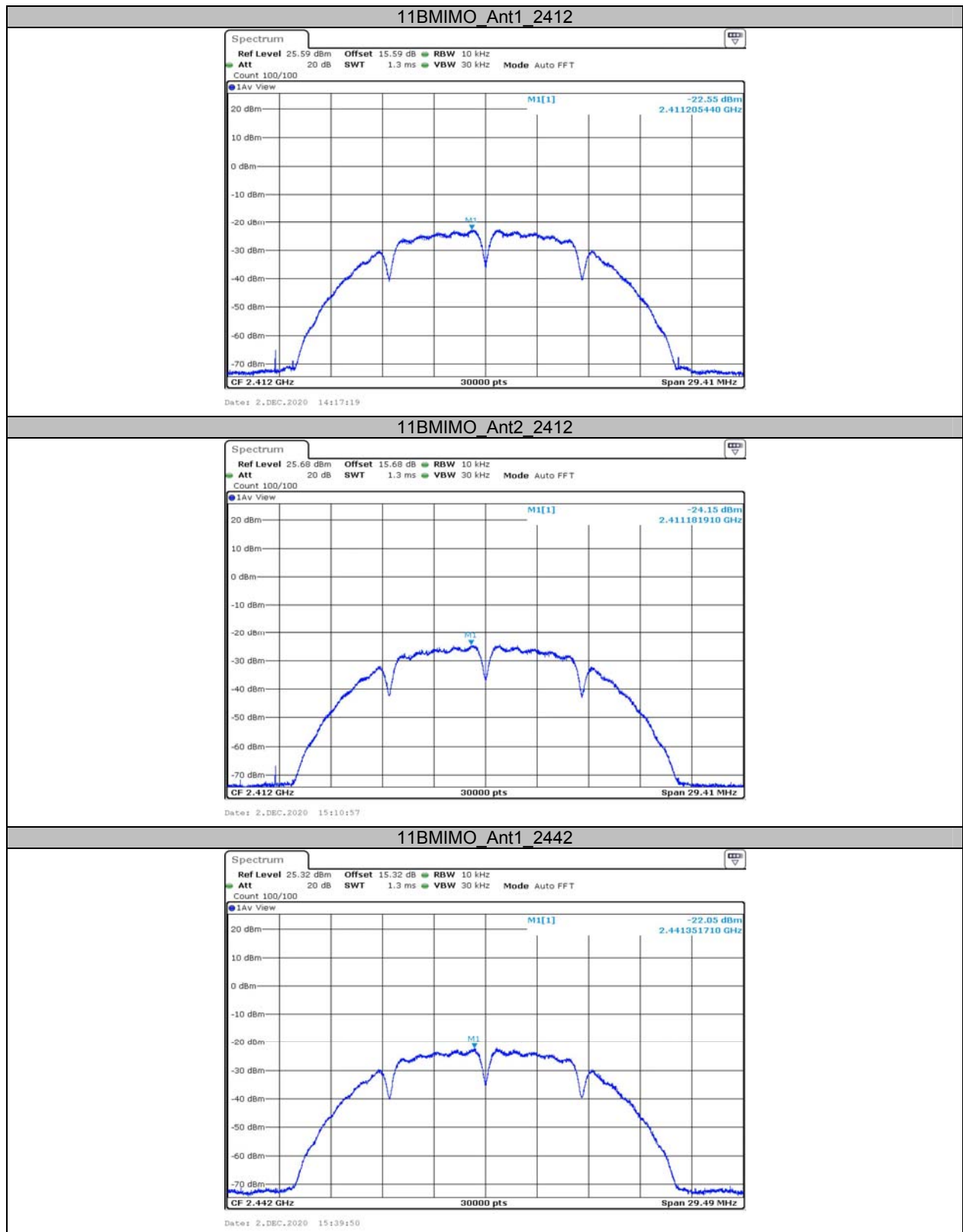


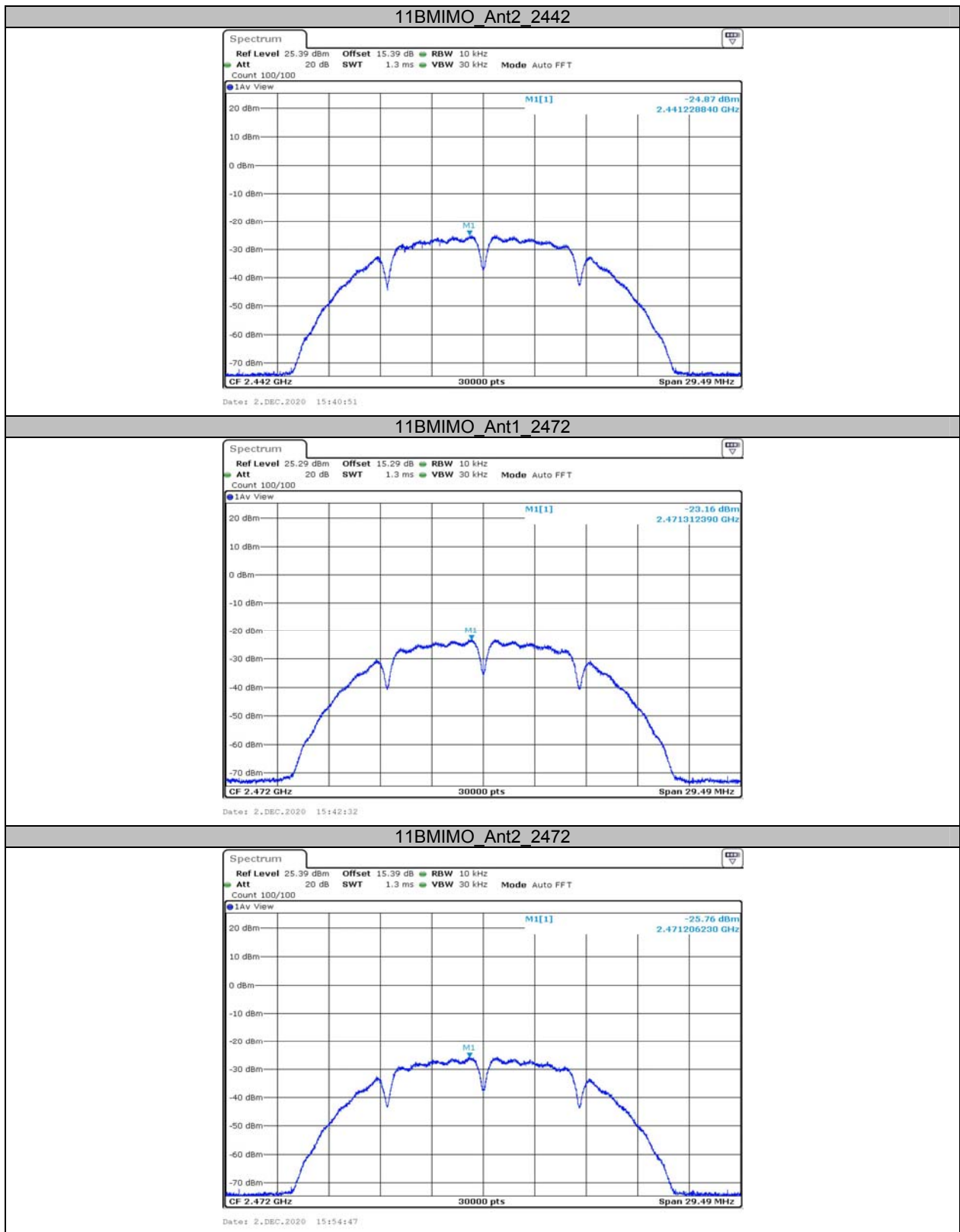




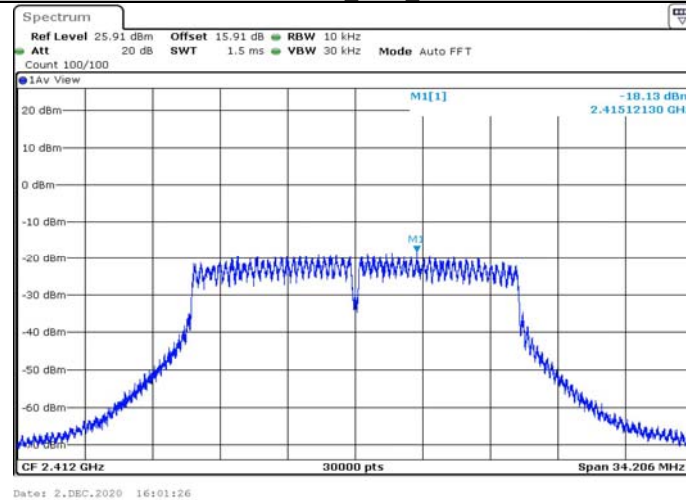




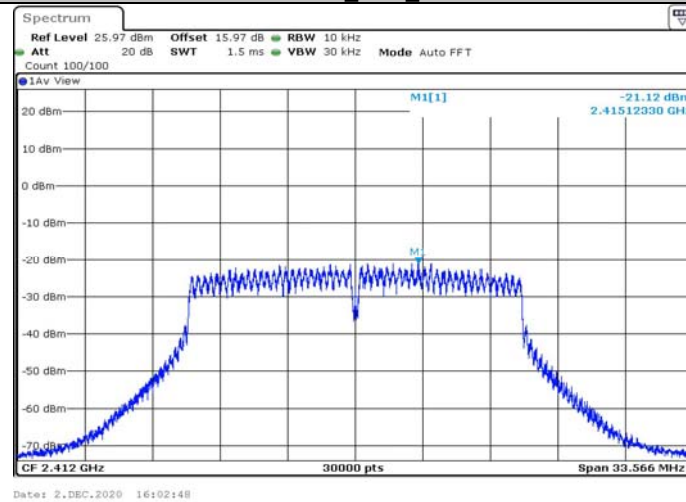




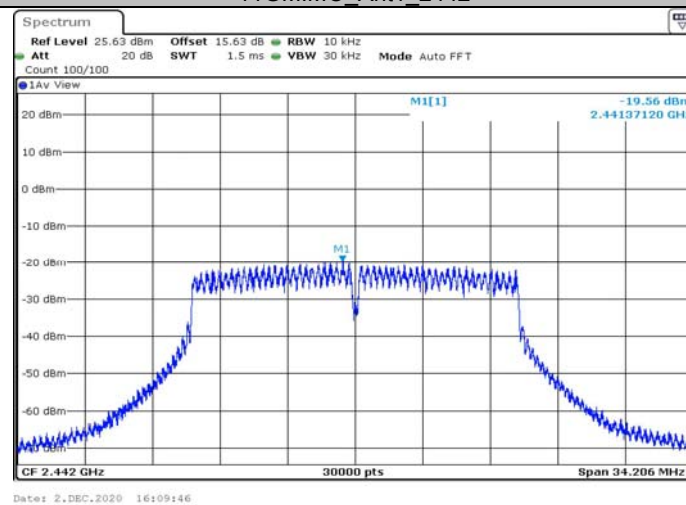
11GMIMO_Ant1_2412



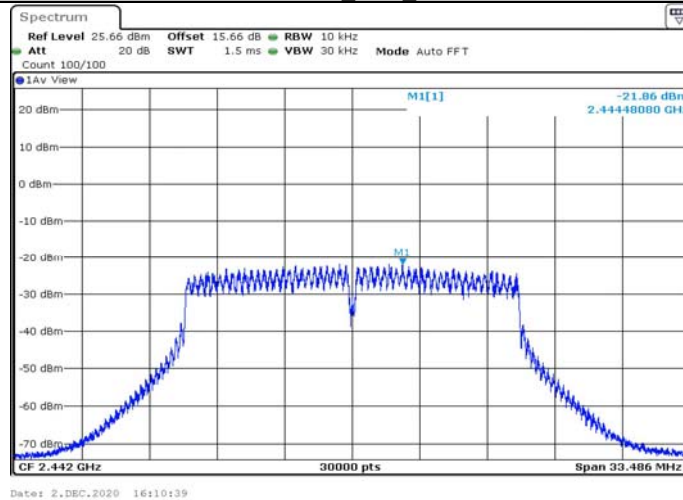
11GMIMO_Ant2_2412



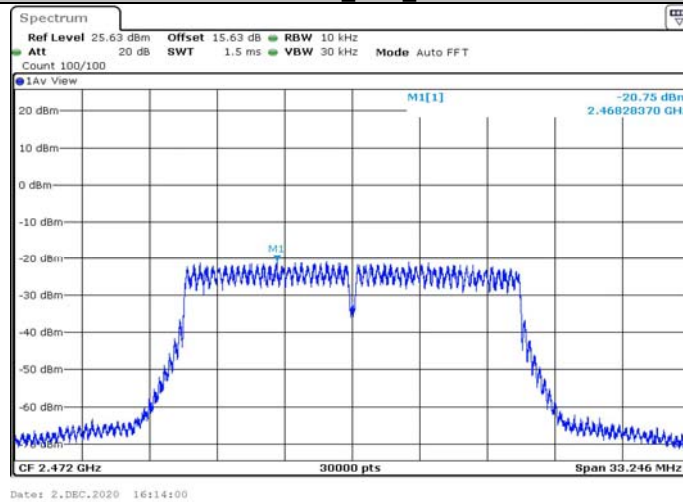
11GMIMO_Ant1_2442



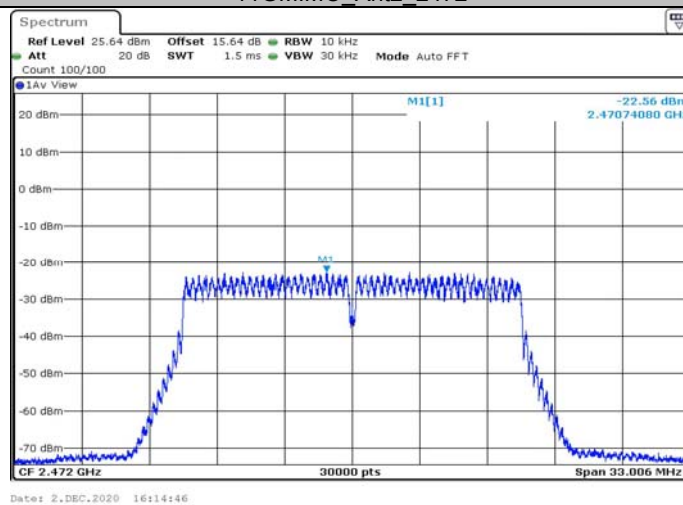
11GMIMO_Ant2_2442



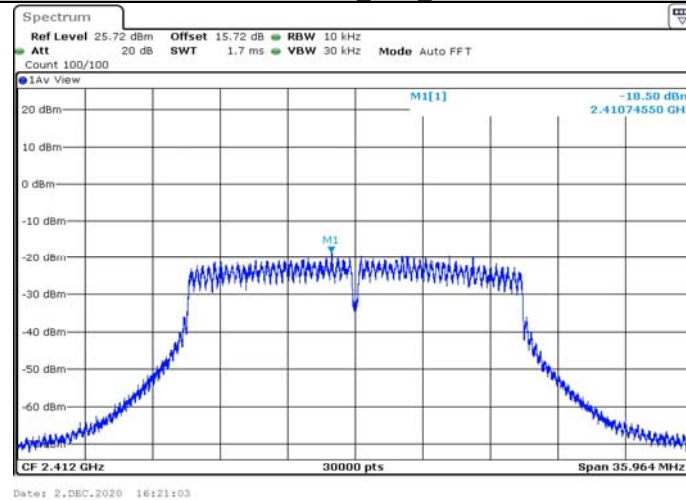
11GMIMO_Ant1_2472



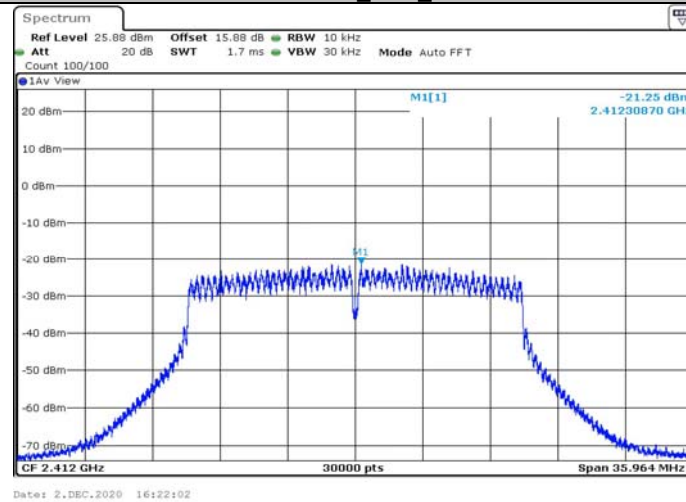
11GMIMO_Ant2_2472



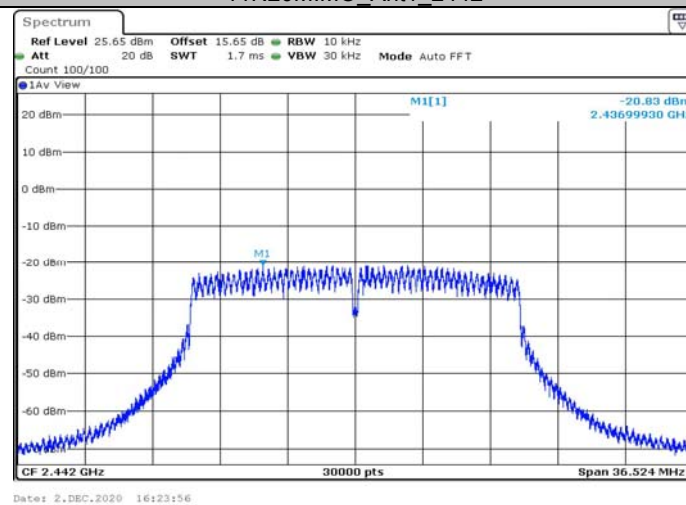
11N20MIMO_Ant1_2412

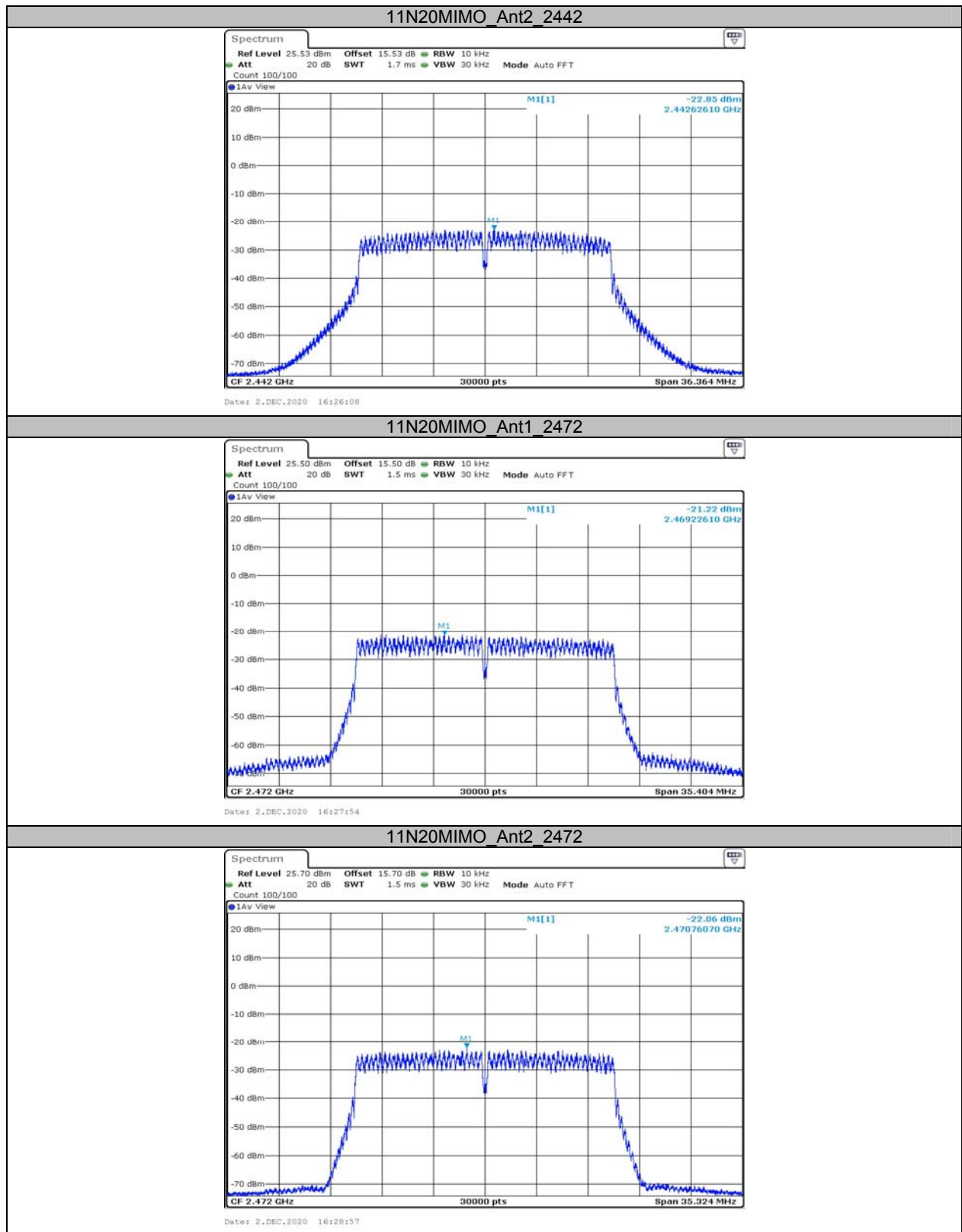


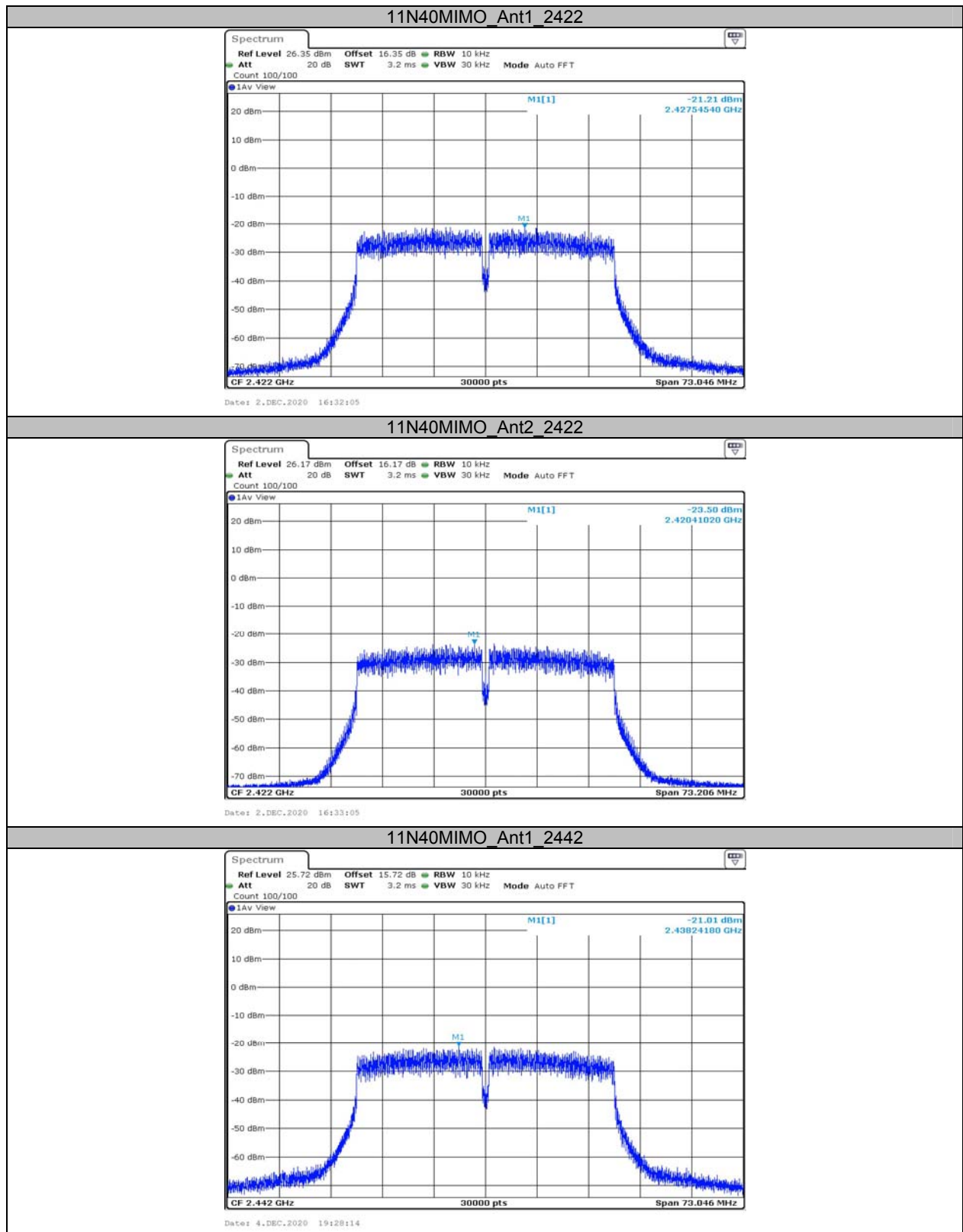
11N20MIMO_Ant2_2412



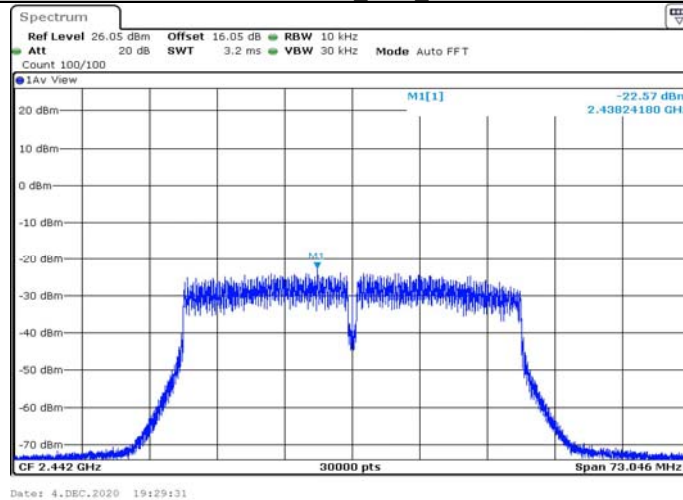
11N20MIMO_Ant1_2442



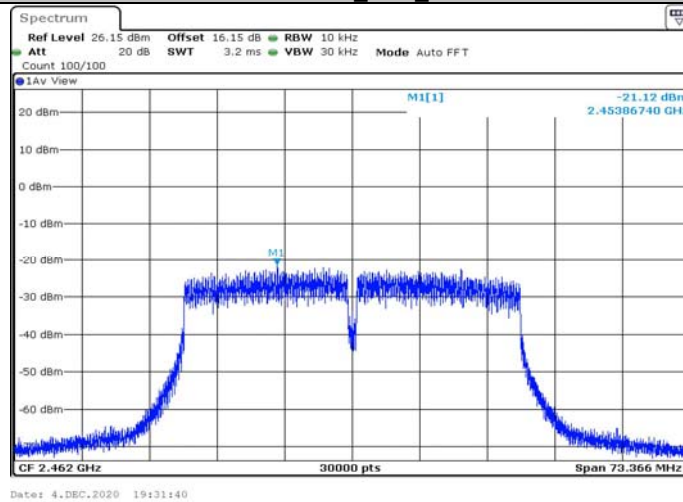




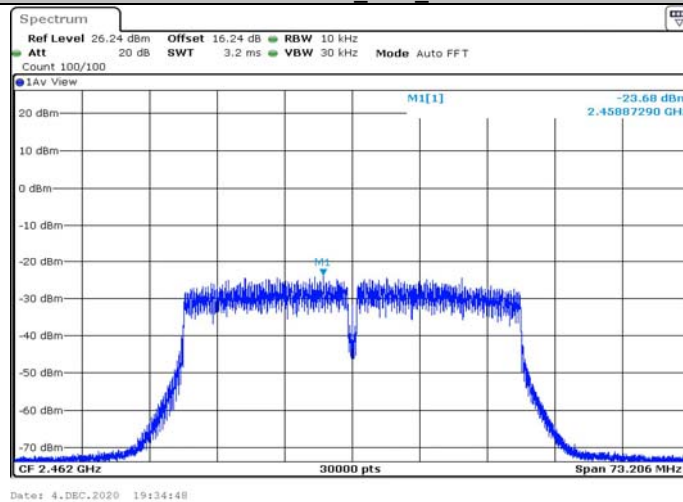
11N40MIMO_Ant2_2442



11N40MIMO_Ant1_2462



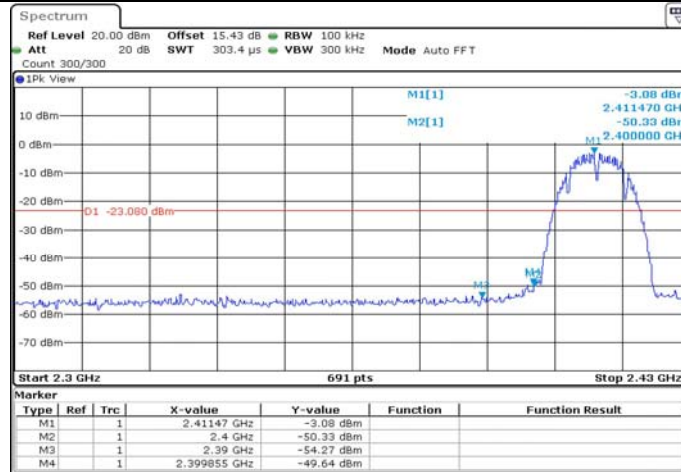
11N40MIMO_Ant2_2462



Appendix E: Band edge measurements

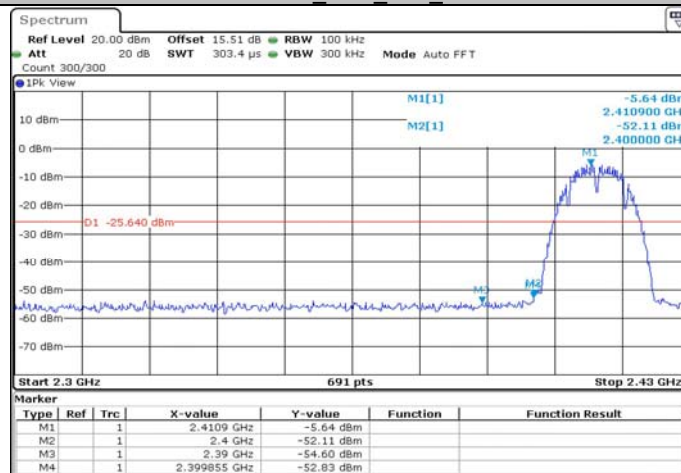
Test Graphs

11BMIMO_Ant1_Low_2412



Date: 7, JAN, 2021 14:03:19

11BMIMO_Ant2_Low_2412



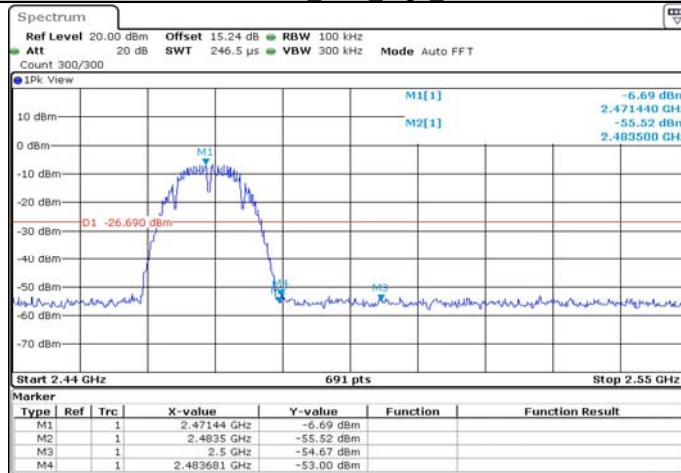
Date: 7, JAN, 2021 14:03:34

11BMIMO_Ant1_High_2472



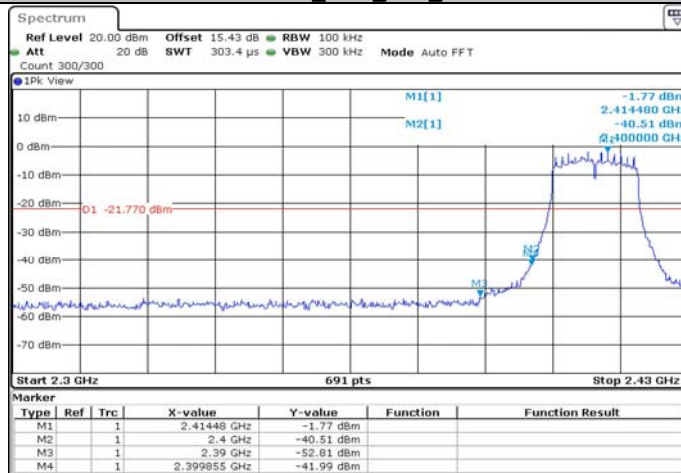
Date: 7, JAN, 2021 14:04:28

11BMIMO_Ant2_High_2472



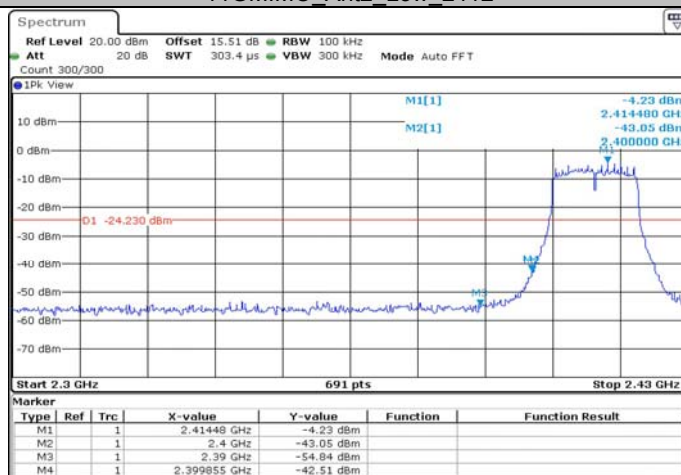
Date: 7, JAN, 2021 14:04:53

11GMIMO_Ant1_Low_2412



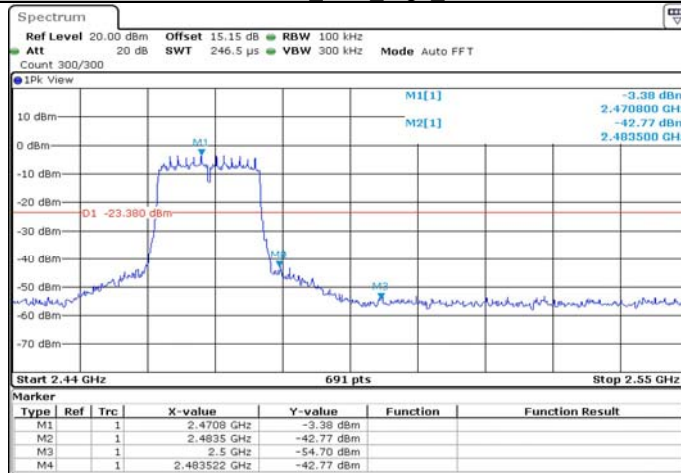
Date: 7, JAN, 2021 14:06:38

11GMIMO_Ant2_Low_2412



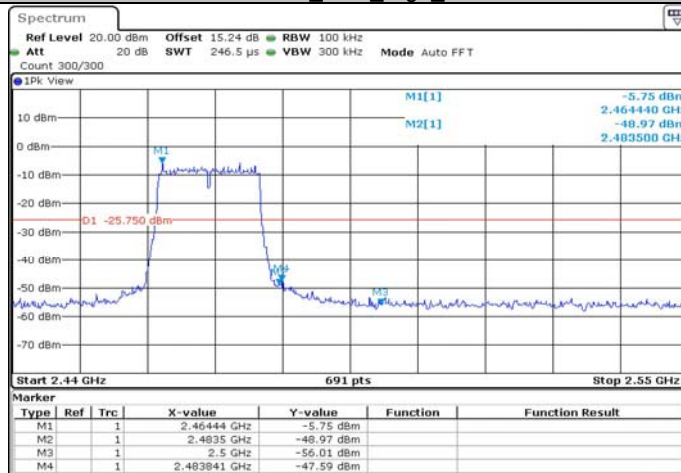
Date: 7, JAN, 2021 14:06:57

11GMIMO_Ant1_High_2472



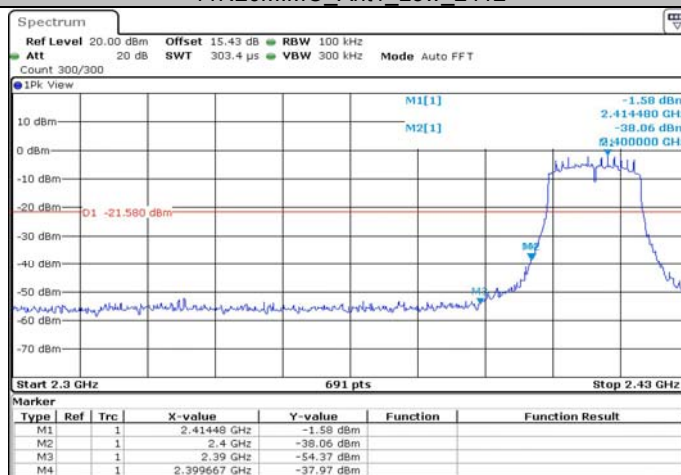
Date: 7, JAN, 2021 14:08:55

11GMIMO_Ant2_High_2472

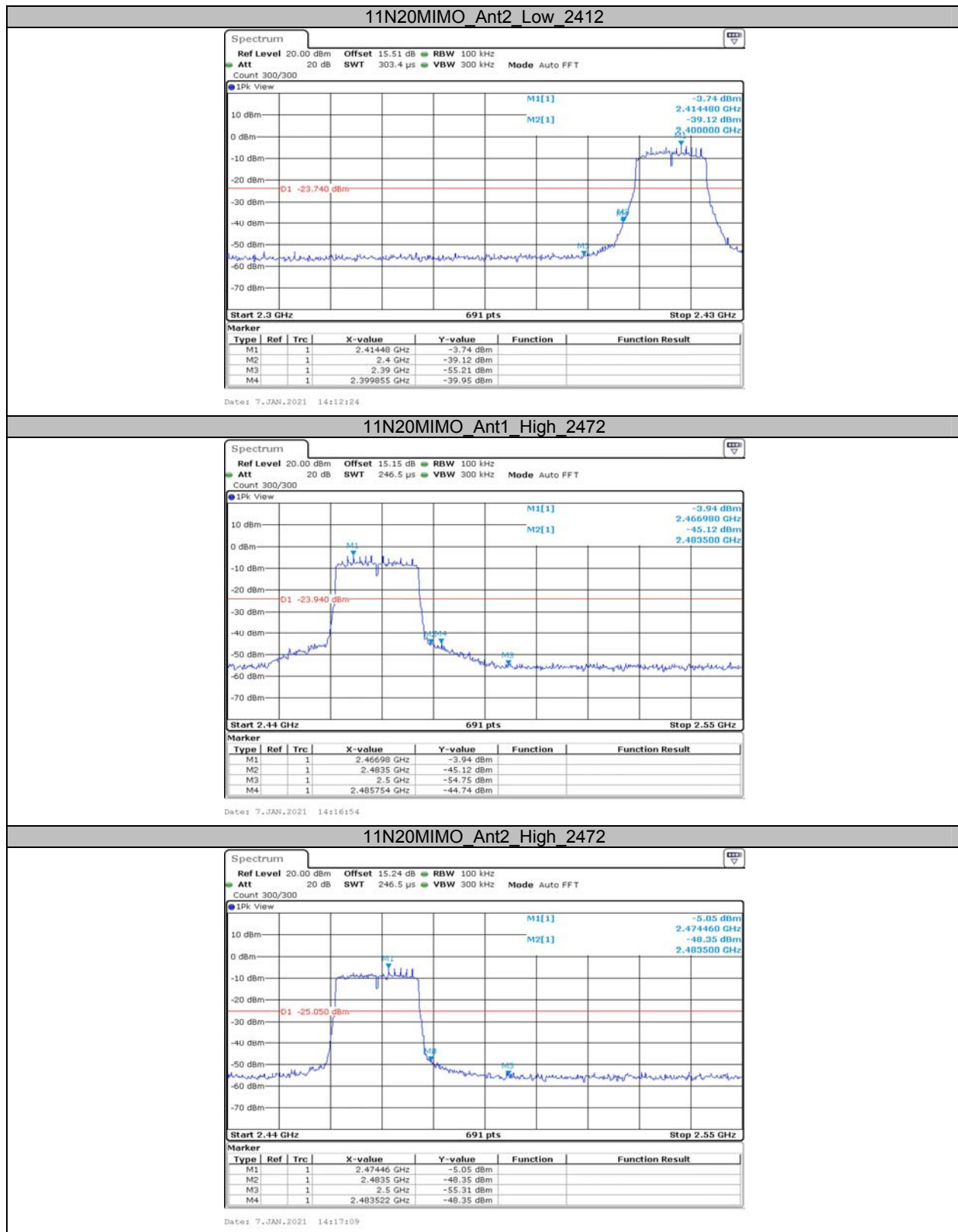


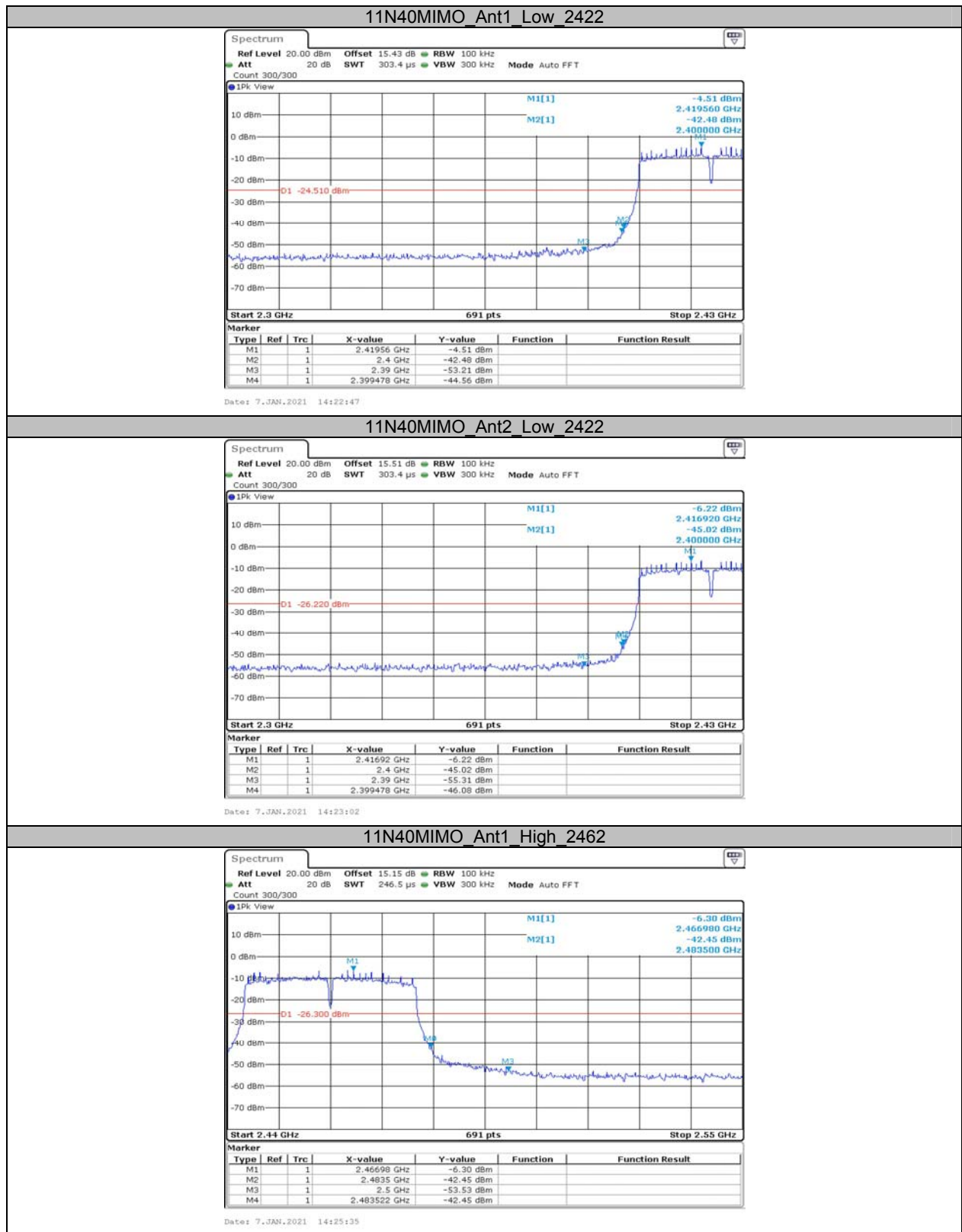
Date: 7, JAN, 2021 14:09:10

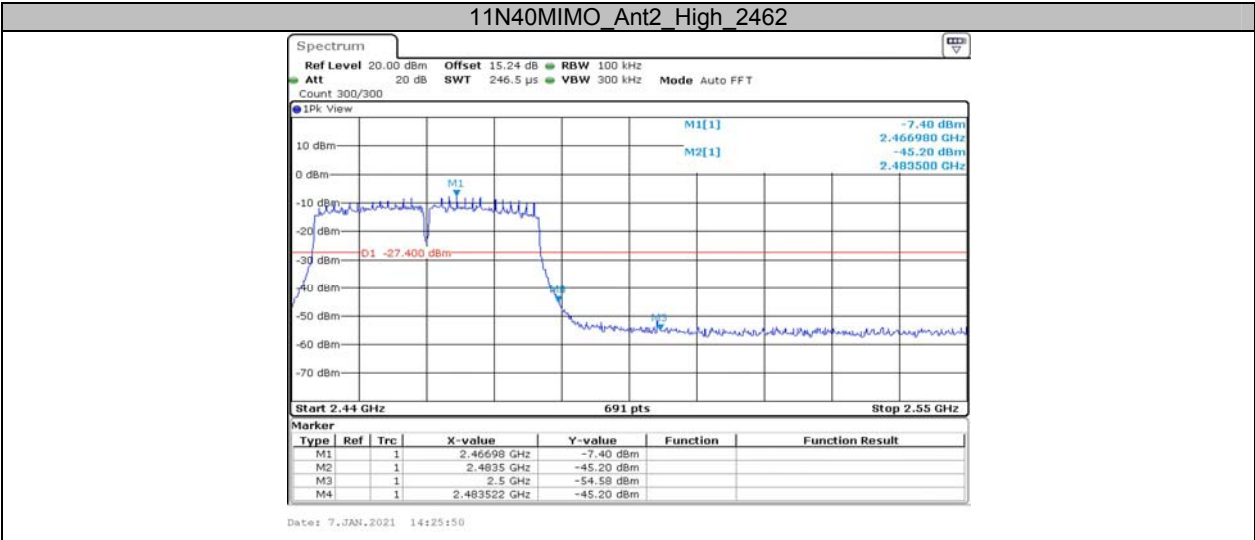
11N20MIMO_Ant1_Low_2412



Date: 7, JAN, 2021 14:11:54





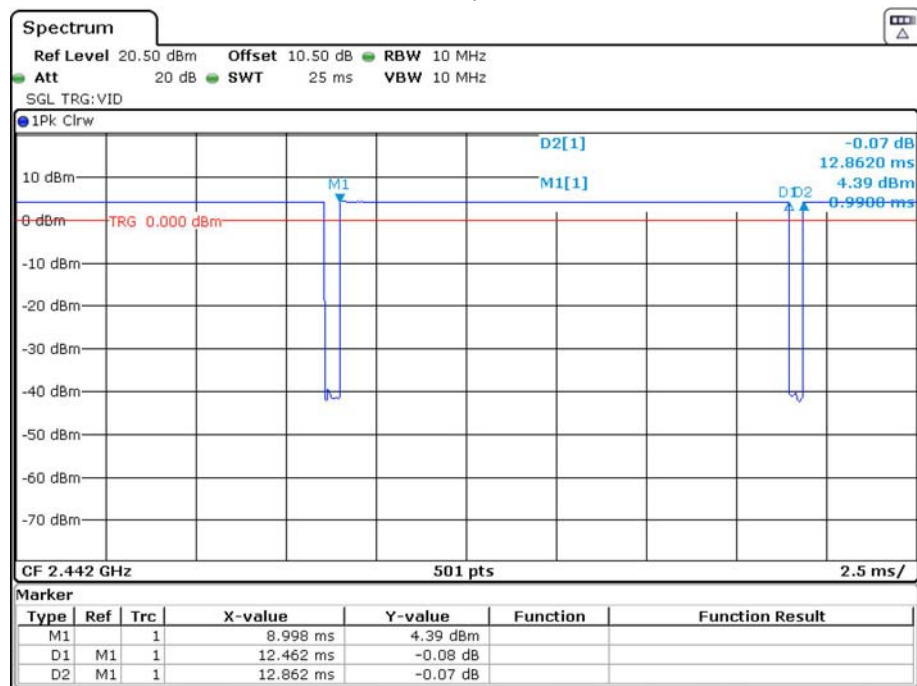


Appendix F: Duty Cycle

Test Result

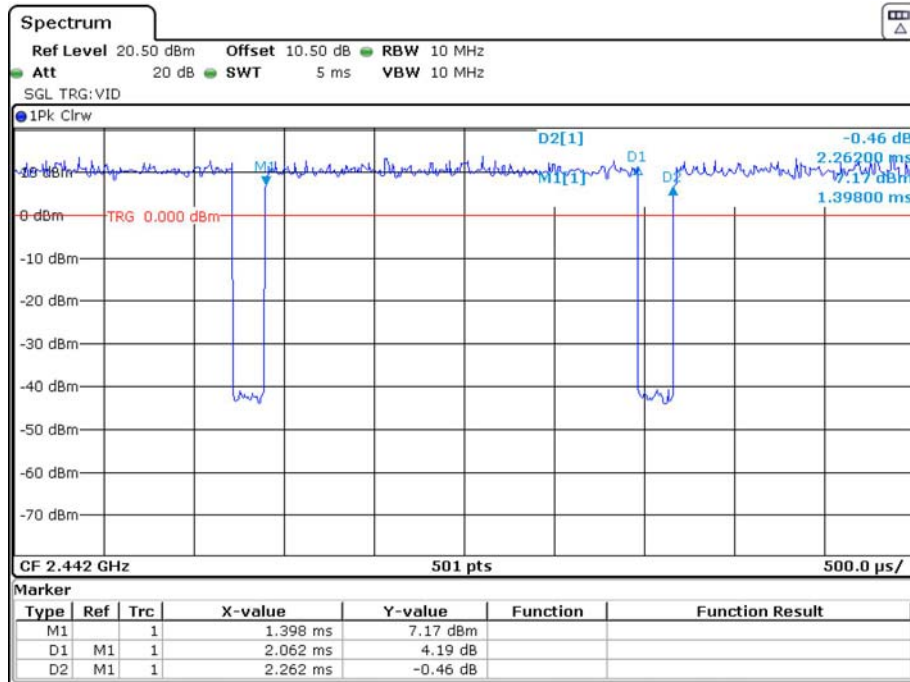
TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
B	Ant2	2442	12.462	12.862	96.89
G	Ant2	2442	2.062	2.262	91.24
N20	Ant2	2442	1.92	2.11	91.00
N40	Ant2	2442	0.948	1.162	81.58

B:



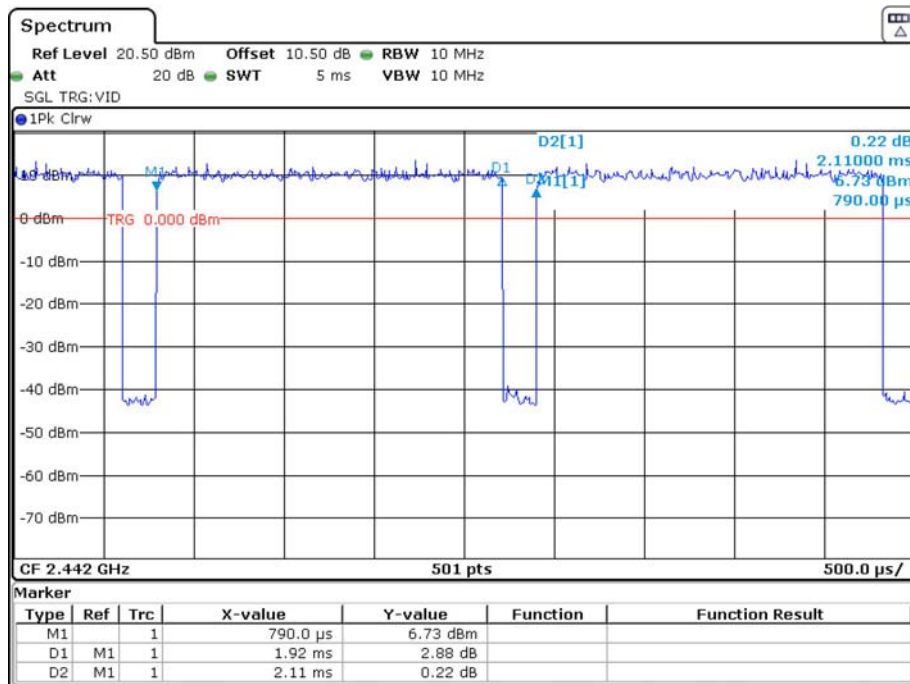
Date: 6.FEB.2021 13:48:58

G:



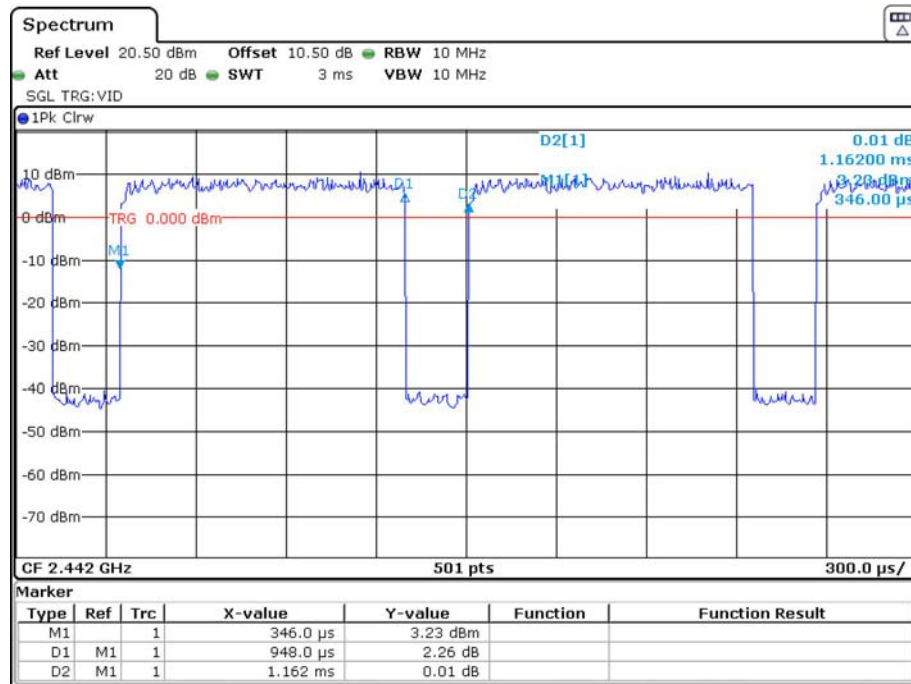
Date: 6.FEB.2021 13:45:52

N20:



Date: 6.FEB.2021 13:52:03

N40:



Date: 6.FEB.2021 13:54:15

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