

TEST REPORT

Applicant Name : TECNO MOBILE LIMITED
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SHAN MEI STREET FOTAN NT Hong Kong
Report Number : SZNS220211-04252E-RF-00D
FCC ID: 2ADYY-CG8H

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: Mobile Phone
Model No.: CG8h
Multiple Model(s) No.: N/A
Trade Mark: TECNO
Date Received: 2022/02/11
Date of Test: 2022/03/04~2022/03/24
Report Date: 2022/03/24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Black Ding

Robert Li

Black Ding
EMC Engineer

Robert Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*" .

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5G Wi-Fi: 5150-5250MHz; 5725-5850MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80
Maximum Conducted Average Output Power	5150-5250 MHz: 7.05dBm 5725-5850 MHz: 6.73dBm
Modulation Technique	OFDM
Antenna Specification*	-1.0dBi (provided by the applicant)
Voltage Range	DC 3.87V from battery, DC 5.0V or 10V from adapter
Sample serial number	SZNS220211-04252E-RF-S1 for Conducted and Radiated Emissions SZNS220211-04252E-RF-S2 for RF Conducted Test (Assigned by ATC)
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 DC 10V, 3.3A, 33.0W MAX

Objective

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

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

Test Methodology

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

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. 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 Frequency		0.082×10^{-7}
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
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 Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. 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.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

The device support 5G Wi-Fi 802.11a/n20/n40/ac20/ac40/ac80 modes.

For 5150-5250MHz Band, 7 channels are provided to testing:

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

For 802.11a/n20/ac20 mode: channel 36, 40, 48 were tested;

For 802.11n40/ac40 mode: channel 38, 46 were tested;

For 802.11ac80 mode, channel 42 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/n20/ac20 mode: channel 149, 157, 165 were tested;

For 802.11n40/ac40 mode: channel 151, 159 were tested;

For 802.11ac80 mode, channel 155 was tested.

EUT Exercise Software

EUT was test in engineering mode.

The worst case was performed under:

U-NII	Mode	Date rate	Power Level*		
			Low Channel	Middle Channel	High Channel
5150 – 5250MHz	802.11a	6Mbps	4	4	4
	802.11n-HT20	MCS0	4	4	4
	802.11n-HT40	MCS0	4	/	4
	802.11ac20	MCS0	4	4	4
	802.11ac40	MCS0	4	/	4
	802.11ac80	MCS0	/	4	/
5725 – 5850MHz	802.11a	6Mbps	7	7	7
	802.11n-HT20	MCS0	7	7	7
	802.11n-HT40	MCS0	7	/	7
	802.11ac20	MCS0	7	7	7
	802.11ac40	MCS0	7	/	7
	802.11ac80	MCS0	/	7	/

The worse-case data rates are determined to be as follows for each mode based upon investigations by measuring the output power and PSD across all data rated bandwidths, and modulations.

The power level was provided by the applicant.

Duty cycle

Test Result: Pass. Please refer to the Appendix.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

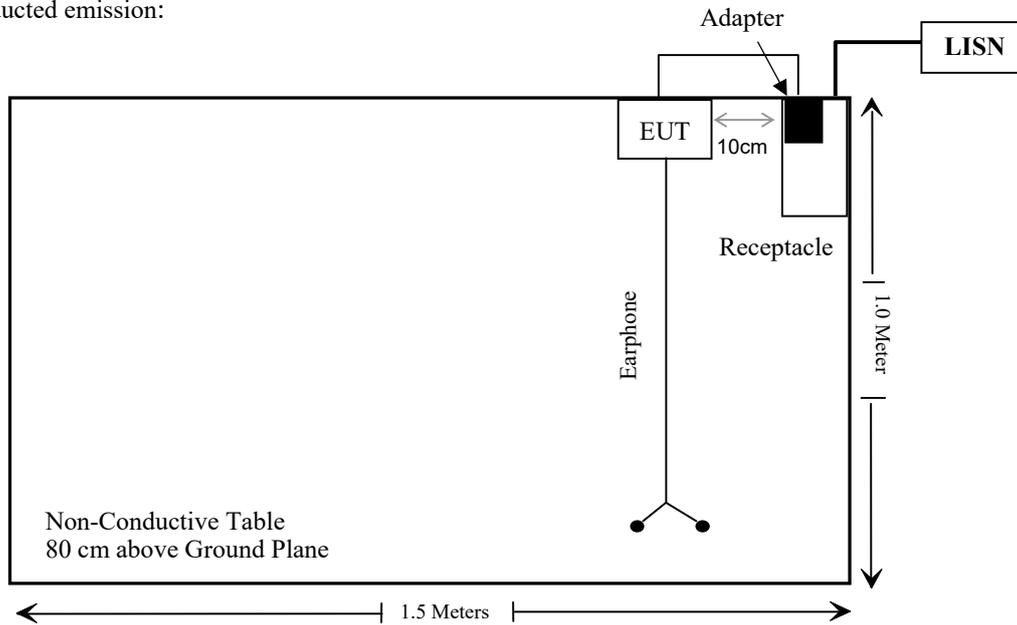
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

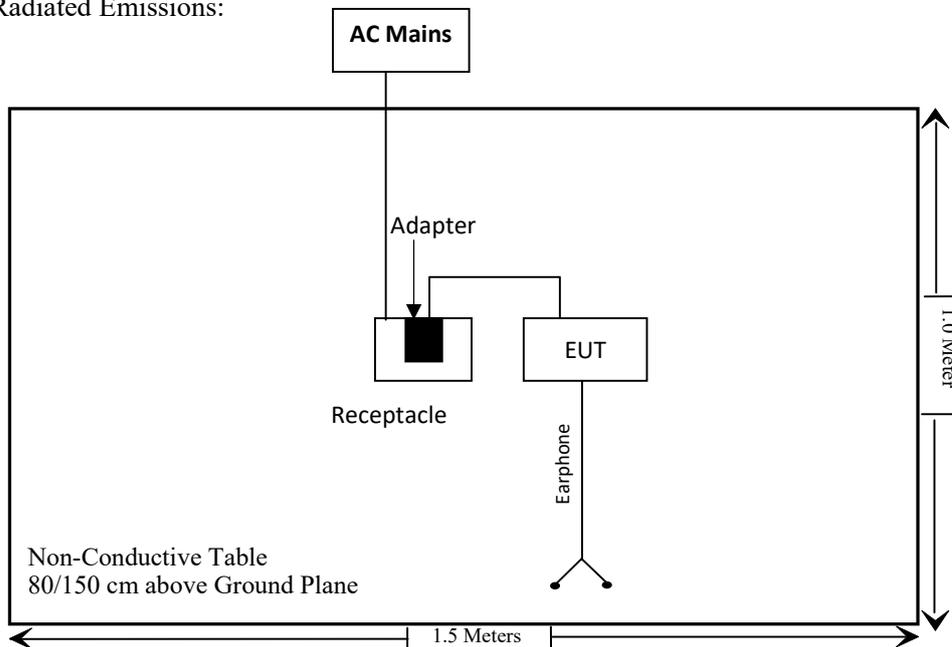
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	adapter	EUT

Block Diagram of Test Setup

For conducted emission:



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) (1) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Not Applicable*

Not Applicable: the EUT has no TPC function which was declared by the applicant.

Not Applicable*: the EUT not operating within frequency range of 5250-5350MHz&5470-5725MHz.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.15/5.35g-45	075	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.725/5.875G-45	065	2021/12/14	2022/12/13

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/07/06	2022/07/05
Unknown	RF Cable	Unknown	Unknown	Each time	/

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

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(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)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
5GHz Wi-Fi	5150-5250	7.2	5.25	5	2.4	3.0	Yes
	5725-5850	7.0	5.01	5	2.4	3.0	Yes

Result: Compliant.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

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

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

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

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

Antenna Connector Construction

The EUT has one internal antenna arrangement for 5G Wi-Fi which were permanently attached. Please refer to the EUT photos.

Type	Antenna Gain	Impedance	Frequency Range
FPC	-1.0Bi	50 Ω	5150-5850MHz

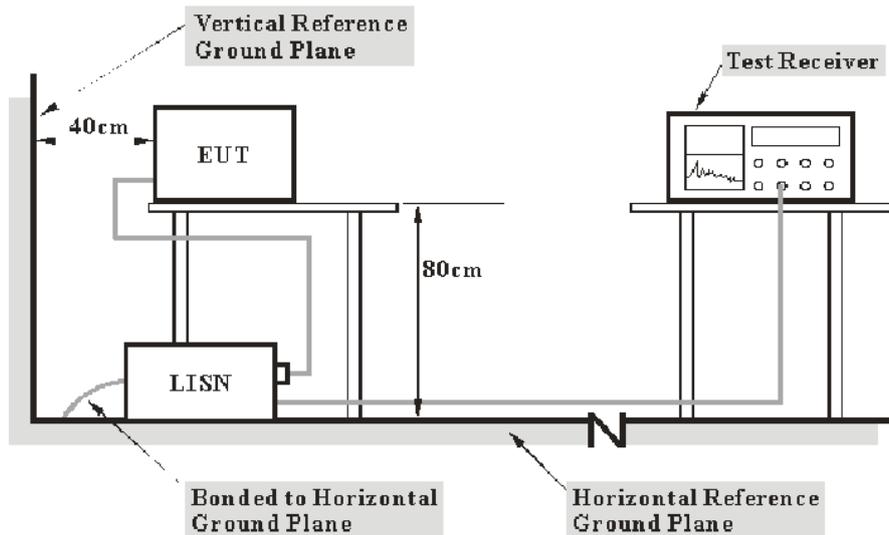
Result: Compliant.

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

Applicable Standard

FCC §15.207, §15.407(b) (6)

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 LISN.

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

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

Transd Factor & Margin Calculation

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

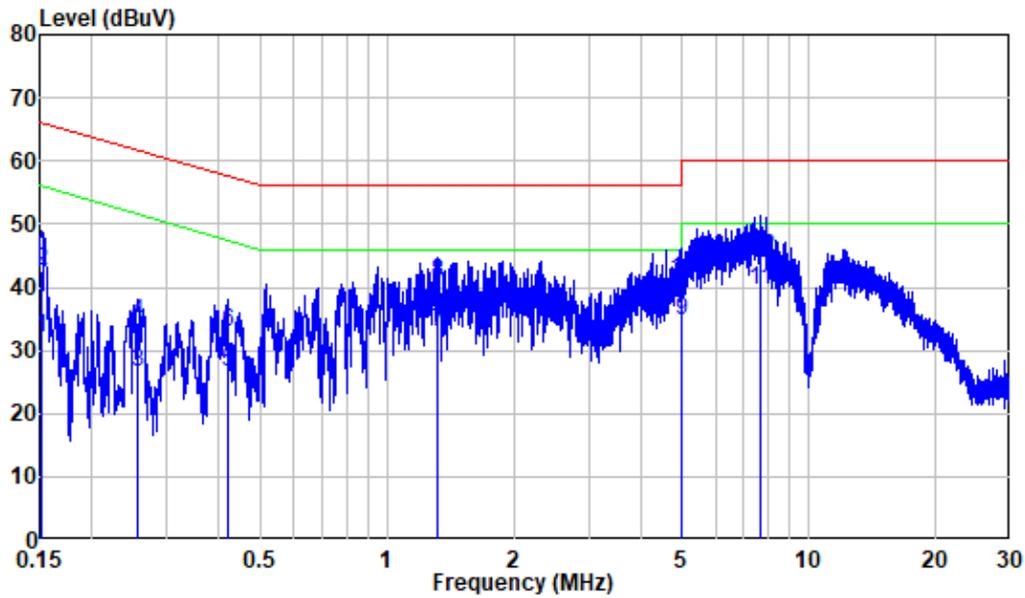
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Caro on 2022-03-08.

EUT operation mode: Transmitting (worst case is 802.11a, 5180MHz)

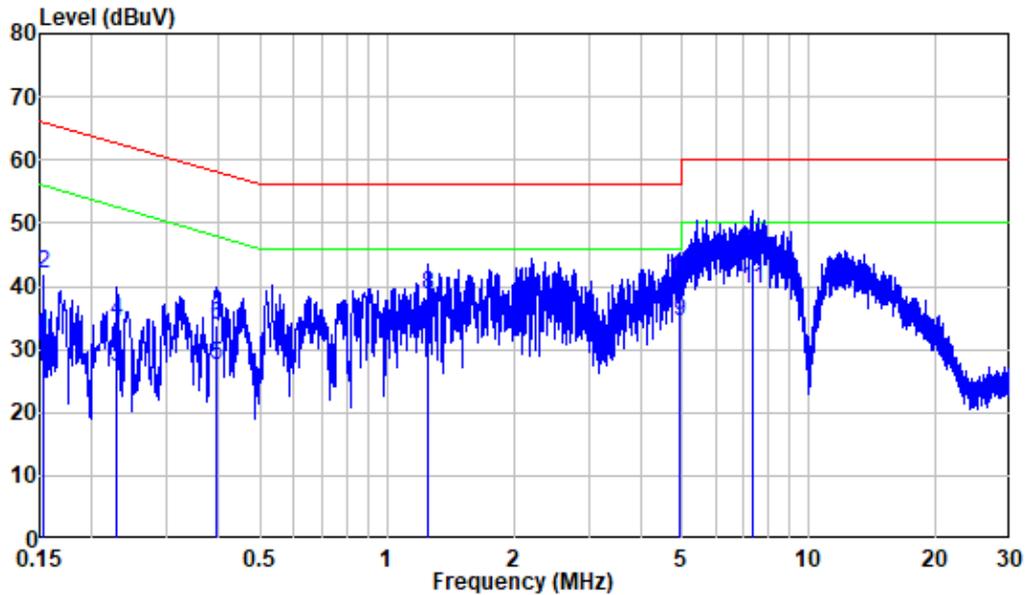
AC 120V/60 Hz, Line:



Site : Shielding Room
 Condition: Line
 Mode : 5G WIFI
 Model : CG8h
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.152	9.80	22.30	32.10	55.90	-23.80	Average
2	0.152	9.80	32.79	42.59	65.90	-23.31	QP
3	0.257	9.80	16.76	26.56	51.54	-24.98	Average
4	0.257	9.80	24.48	34.28	61.54	-27.26	QP
5	0.418	9.80	16.82	26.62	47.48	-20.86	Average
6	0.418	9.80	23.23	33.03	57.48	-24.45	QP
7	1.318	9.81	23.15	32.96	46.00	-13.04	Average
8	1.318	9.81	30.82	40.63	56.00	-15.37	QP
9	4.978	9.85	24.99	34.84	46.00	-11.16	Average
10	4.978	9.85	31.29	41.14	56.00	-14.86	QP
11	7.662	9.88	29.67	39.55	50.00	-10.45	Average
12	7.662	9.88	34.82	44.70	60.00	-15.30	QP

AC 120V/60 Hz, Neutral:



Site : Shielding Room
 Condition: Neutral
 Mode : 5G WIFI
 Model : CG8h
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.154	9.80	22.53	32.33	55.81	-23.48	Average
2	0.154	9.80	32.27	42.07	65.81	-23.74	QP
3	0.228	9.80	17.42	27.22	52.51	-25.29	Average
4	0.228	9.80	24.51	34.31	62.51	-28.20	QP
5	0.394	9.80	17.64	27.44	47.97	-20.53	Average
6	0.394	9.80	23.98	33.78	57.97	-24.19	QP
7	1.249	9.81	22.31	32.12	46.00	-13.88	Average
8	1.249	9.81	28.87	38.68	56.00	-17.32	QP
9	4.939	9.89	24.61	34.50	46.00	-11.50	Average
10	4.939	9.89	31.04	40.93	56.00	-15.07	QP
11	7.348	9.97	29.67	39.64	50.00	-10.36	Average
12	7.348	9.97	35.40	45.37	60.00	-14.63	QP

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

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

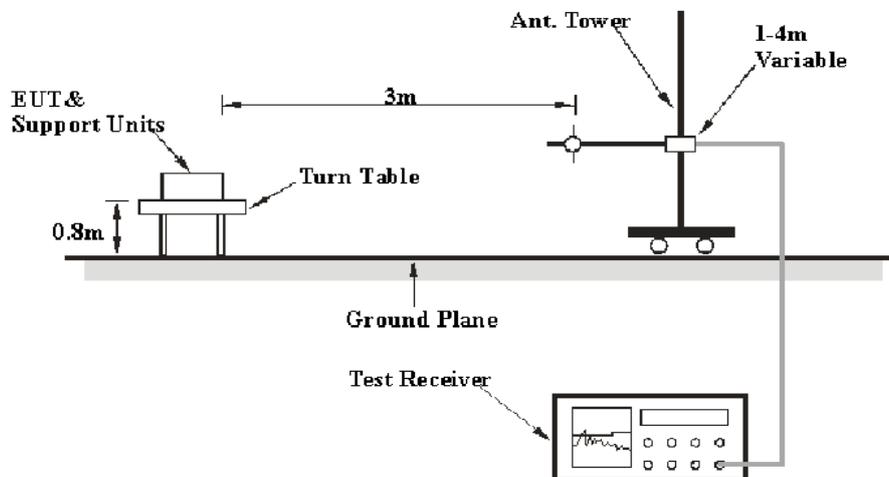
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

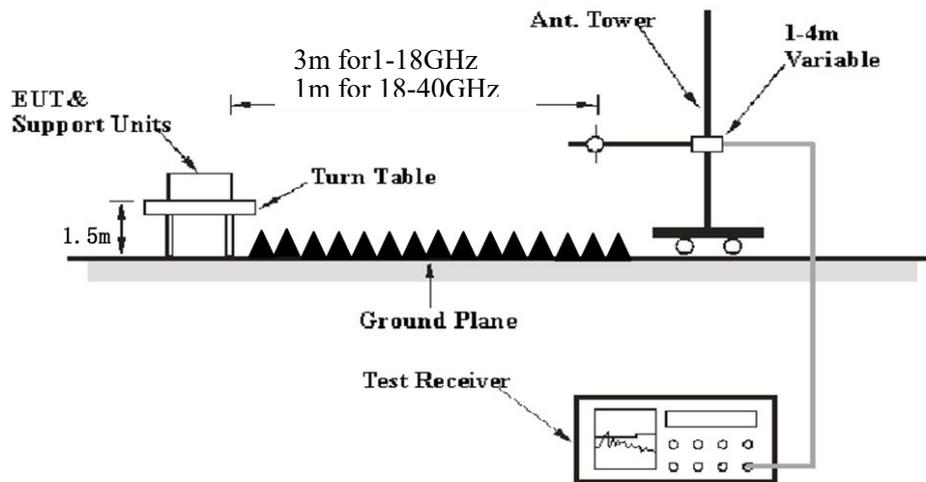
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

EUT Setup

Below 1 GHz:



Above 1 GHz:

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

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

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

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	1 MHz	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**Radiated Spurious Emission**

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

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

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

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

where

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

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

Factor & Margin Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level / Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

Environmental Conditions

Temperature:	21~23 °C
Relative Humidity:	58~62 %
ATM Pressure:	101.0 kPa

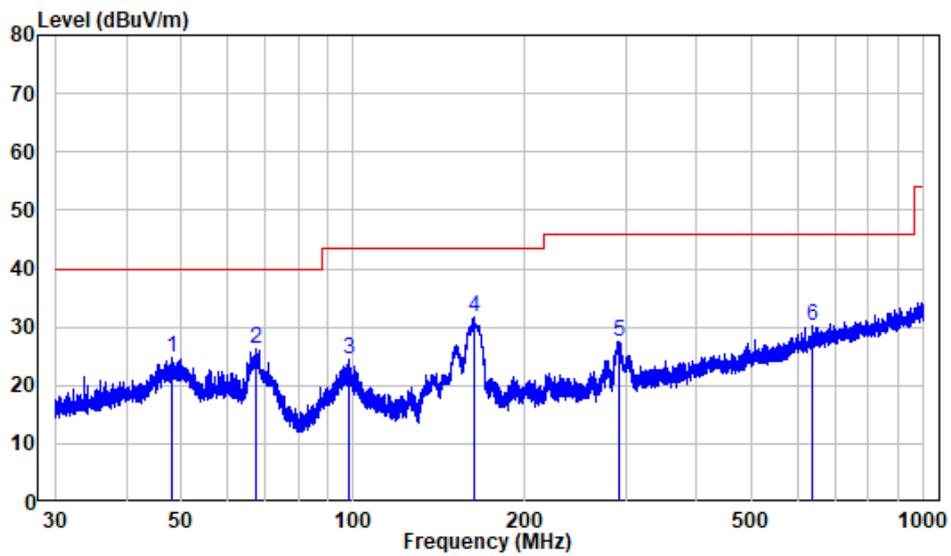
The testing was performed by Chao Mo on 2022-03-09 for below 1GHz, Chao Mo on 2022-03-22 for above 1GHz.

EUT operation mode: Transmitting(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30 MHz – 1 GHz: (worst case is 802.11a, 5180MHz)

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

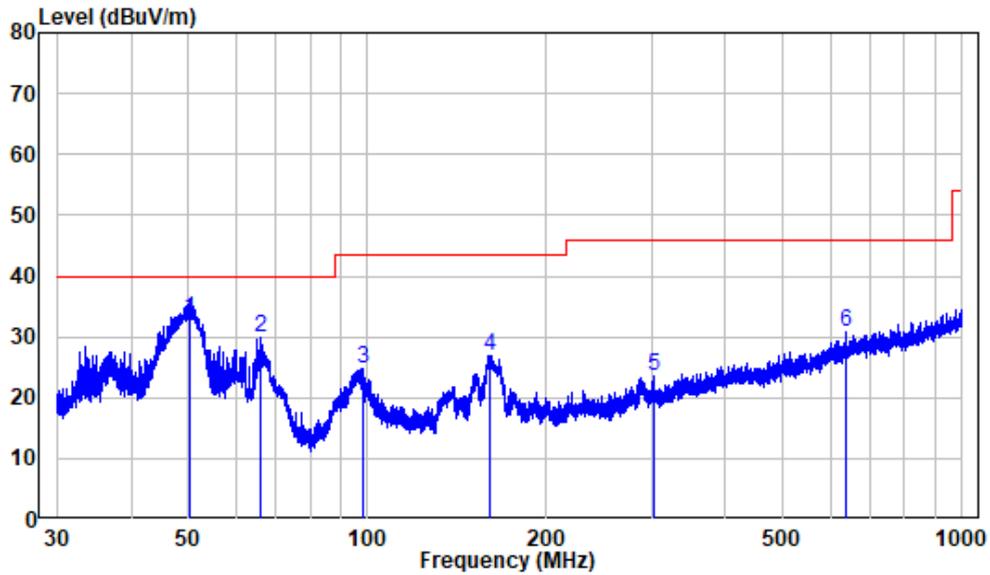
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZNS220211-04252E-RF
 Test Mode: 5G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	48.120	-9.99	34.73	24.74	40.00	-15.26	Peak
2	67.557	-13.63	40.04	26.41	40.00	-13.59	Peak
3	98.314	-12.18	36.62	24.44	43.50	-19.06	Peak
4	162.539	-14.29	46.06	31.77	43.50	-11.73	Peak
5	293.341	-9.28	36.90	27.62	46.00	-18.38	Peak
6	637.250	-1.96	32.18	30.22	46.00	-15.78	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZNS220211-04252E-RF
 Test Mode: 5G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	50.232	-9.92	42.90	32.98	40.00	-7.02	QP
2	66.121	-12.94	42.68	29.74	40.00	-10.26	Peak
3	98.142	-12.21	37.02	24.81	43.50	-18.69	Peak
4	160.065	-14.19	41.21	27.02	43.50	-16.48	Peak
5	302.349	-9.14	32.66	23.52	46.00	-22.48	Peak
6	636.413	-1.97	32.79	30.82	46.00	-15.18	Peak

Above 1GHz:**5150-5250 MHz:**

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407	
	Reading (dB μ V)	PK/QP/AV		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11a									
5180 MHz									
4500	63.2	PK	11	2.2	H	-4.72	58.48	74	-15.52
4500	50.57	AV	11	2.2	H	-4.72	45.85	54	-8.15
4500	63.05	PK	144	2.5	V	-4.72	58.33	74	-15.67
4500	50.49	AV	144	2.5	V	-4.72	45.77	54	-8.23
5150	63.41	PK	74	1.6	H	-2.73	60.68	74	-13.32
5150	50.85	AV	74	1.6	H	-2.73	48.12	54	-5.88
5150	63.18	PK	298	1.1	V	-2.73	60.45	74	-13.55
5150	50.71	AV	298	1.1	V	-2.73	47.98	54	-6.02
10360	58.28	PK	171	1.7	H	8.12	66.4	68.2	-1.8
10360	54.49	PK	57	2	V	8.12	62.61	68.2	-5.59
5200 MHz									
10400	57.12	PK	313	1.9	H	8.24	65.36	68.2	-2.84
10400	53.23	PK	32	1.7	V	8.24	61.47	68.2	-6.73
5240 MHz									
5350	64.97	PK	15	2.1	H	-2.33	62.64	74	-11.36
5350	51.44	AV	15	2.1	H	-2.33	49.11	54	-4.89
5350	64.49	PK	35	1.1	V	-2.33	62.16	74	-11.84
5350	51.33	AV	35	1.1	V	-2.33	49	54	-5
5460	63.02	PK	215	1.4	H	-2.26	60.76	74	-13.24
5460	51.36	AV	215	1.4	H	-2.26	49.1	54	-4.9
5460	62.77	PK	202	2.4	V	-2.26	60.51	74	-13.49
5460	51.29	AV	202	2.4	V	-2.26	49.03	54	-4.97
10480	57.35	PK	59	1.9	H	8.56	65.91	68.2	-2.29
10480	52.97	PK	157	2.2	V	8.56	61.53	68.2	-6.67

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part15.407	
	Reading (dB μ V)	PK/QP/AV		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11n20									
5180 MHz									
4500	63.25	PK	67	1.3	H	-4.72	58.53	74	-15.47
4500	50.42	AV	67	1.3	H	-4.72	45.7	54	-8.3
4500	63.09	PK	269	1.9	V	-4.72	58.37	74	-15.63
4500	50.34	AV	269	1.9	V	-4.72	45.62	54	-8.38
5150	63.68	PK	246	2.3	H	-2.73	60.95	74	-13.05
5150	50.67	AV	246	2.3	H	-2.73	47.94	54	-6.06
5150	63.5	PK	223	1	V	-2.73	60.77	74	-13.23
5150	50.59	AV	223	1	V	-2.73	47.86	54	-6.14
10360	58.49	PK	287	2.5	H	8.12	66.61	68.2	-1.59
10360	54.77	PK	286	1.1	V	8.12	62.89	68.2	-5.31
5200 MHz									
10400	57.92	PK	57	1.2	H	8.24	66.16	68.2	-2.04
10400	53.51	PK	32	1.1	V	8.24	61.75	68.2	-6.45
5240 MHz									
5350	64.7	PK	343	2	H	-2.33	62.37	74	-11.63
5350	51.27	AV	343	2	H	-2.33	48.94	54	-5.06
5350	64.35	PK	144	2.3	V	-2.33	62.02	74	-11.98
5350	51.16	AV	144	2.3	V	-2.33	48.83	54	-5.17
5460	63.09	PK	39	1.7	H	-2.26	60.83	74	-13.17
5460	51.24	AV	39	1.7	H	-2.26	48.98	54	-5.02
5460	62.92	PK	172	1.8	V	-2.26	60.66	74	-13.34
5460	51.15	AV	172	1.8	V	-2.26	48.89	54	-5.11
10480	56.68	PK	168	1.1	H	8.56	65.24	68.2	-2.96
10480	51.94	PK	276	1.4	V	8.56	60.5	68.2	-7.7

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part15.407	
	Reading (dB μ V)	PK/QP/AV		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11n40									
5190 MHz									
4500	63.31	PK	79	2.5	H	-4.72	58.59	74	-15.41
4500	50.92	AV	79	2.5	H	-4.72	46.2	54	-7.8
4500	63.2	PK	86	1.2	V	-4.72	58.48	74	-15.52
4500	50.83	AV	86	1.2	V	-4.72	46.11	54	-7.89
5150	63.74	PK	264	1.4	H	-2.73	61.01	74	-12.99
5150	51.17	AV	264	1.4	H	-2.73	48.44	54	-5.56
5150	63.52	PK	315	2.4	V	-2.73	60.79	74	-13.21
5150	51.06	AV	315	2.4	V	-2.73	48.33	54	-5.67
10380	57.91	PK	92	1.7	H	8.18	66.09	68.2	-2.11
10380	54.19	PK	212	2	V	8.18	62.37	68.2	-5.83
5230 MHz									
5350	64.75	PK	160	1.1	H	-2.33	62.42	74	-11.58
5350	51.74	AV	160	1.1	H	-2.33	49.41	54	-4.59
5350	64.16	PK	245	1.3	V	-2.33	61.83	74	-12.17
5350	51.61	AV	245	1.3	V	-2.33	49.28	54	-4.72
5460	63.07	PK	117	1.4	H	-2.26	60.81	74	-13.19
5460	51.51	AV	117	1.4	H	-2.26	49.25	54	-4.75
5460	62.94	PK	27	1.2	V	-2.26	60.68	74	-13.32
5460	51.4	AV	27	1.2	V	-2.26	49.14	54	-4.86
10460	56.89	PK	39	1.8	H	8.47	65.36	68.2	-2.84
10460	53.02	PK	299	1.9	V	8.47	61.49	68.2	-6.71

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part15.407	
	Reading (dB μ V)	PK/QP/AV		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11ac20									
5180 MHz									
4500	63.28	PK	179	1.2	H	-4.72	58.56	74	-15.44
4500	50.45	AV	179	1.2	H	-4.72	45.73	54	-8.27
4500	63.17	PK	88	1.6	V	-4.72	58.45	74	-15.55
4500	50.32	AV	88	1.6	V	-4.72	45.6	54	-8.4
5150	63.94	PK	162	2.1	H	-2.73	61.21	74	-12.79
5150	50.81	AV	162	2.1	H	-2.73	48.08	54	-5.92
5150	63.75	PK	271	1.3	V	-2.73	61.02	74	-12.98
5150	50.72	AV	271	1.3	V	-2.73	47.99	54	-6.01
10360	57.79	PK	122	1.5	H	8.12	65.91	68.2	-2.29
10360	53.93	PK	337	2.3	V	8.12	62.05	68.2	-6.15
5200 MHz									
10400	57.44	PK	331	2.1	H	8.24	65.68	68.2	-2.52
10400	53.67	PK	322	1.3	V	8.24	61.91	68.2	-6.29
5240 MHz									
5350	65.05	PK	168	1.8	H	-2.33	62.72	74	-11.28
5350	51.28	AV	168	1.8	H	-2.33	48.95	54	-5.05
5350	64.6	PK	71	2.2	V	-2.33	62.27	74	-11.73
5350	51.19	AV	71	2.2	V	-2.33	48.86	54	-5.14
5460	63.11	PK	335	2.1	H	-2.26	60.85	74	-13.15
5460	51.27	AV	335	2.1	H	-2.26	49.01	54	-4.99
5460	62.98	PK	156	1.7	V	-2.26	60.72	74	-13.28
5460	51.19	AV	156	1.7	V	-2.26	48.93	54	-5.07
10480	56.68	PK	259	1.1	H	8.56	65.24	68.2	-2.96
10480	52.51	PK	114	1.4	V	8.56	61.07	68.2	-7.13

Frequency (MHz)	Receiver		Turn-Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part15.407	
	Reading (dB μ V)	Detector (PK/QP/AV)	Angle Degree	Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11ac40									
5190 MHz									
4500	63.4	PK	252	2.4	H	-4.72	58.68	74	-15.32
4500	50.88	AV	252	2.4	H	-4.72	46.16	54	-7.84
4500	63.31	PK	124	1.9	V	-4.72	58.59	74	-15.41
4500	50.79	AV	124	1.9	V	-4.72	46.07	54	-7.93
5150	63.88	PK	33	1.3	H	-2.73	61.15	74	-12.85
5150	51.2	AV	33	1.3	H	-2.73	48.47	54	-5.53
5150	63.75	PK	132	2.3	V	-2.73	61.02	74	-12.98
5150	51.11	AV	132	2.3	V	-2.73	48.38	54	-5.62
10380	58.75	PK	337	1.5	H	8.18	66.93	68.2	-1.27
10380	54.63	PK	216	1.4	V	8.18	62.81	68.2	-5.39
5230 MHz									
5350	64.86	PK	44	1.7	H	-2.33	62.53	74	-11.47
5350	51.79	AV	44	1.7	H	-2.33	49.46	54	-4.54
5350	64.28	PK	13	2.2	V	-2.33	61.95	74	-12.05
5350	51.65	AV	13	2.2	V	-2.33	49.32	54	-4.68
5460	63.21	PK	18	2.4	H	-2.26	60.95	74	-13.05
5460	51.6	AV	18	2.4	H	-2.26	49.34	54	-4.66
5460	63.02	PK	11	1.5	V	-2.26	60.76	74	-13.24
5460	51.51	AV	11	1.5	V	-2.26	49.25	54	-4.75
10460	56.87	PK	182	1.4	H	8.47	65.34	68.2	-2.86
10460	53.03	PK	223	1.4	V	8.47	61.5	68.2	-6.7

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part15.407	
	Reading (dBμV)	Detector (PK/QP/AV)	Angle Degree	Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
802.11ac80									
5210MHz									
4500	65.37	PK	129	1	H	-4.72	60.65	74	-13.35
4500	52.86	AV	129	1	H	-4.72	48.14	54	-5.86
4500	65.56	PK	136	1.9	V	-4.72	60.84	74	-13.16
4500	52.75	AV	136	1.9	V	-4.72	48.03	54	-5.97
5150	64.49	PK	155	1.1	H	-2.73	61.76	74	-12.24
5150	52.15	AV	155	1.1	H	-2.73	49.42	54	-4.58
5150	64.31	PK	354	1.5	V	-2.73	61.58	74	-12.42
5150	52.08	AV	354	1.5	V	-2.73	49.35	54	-4.65
5350	65.25	PK	355	1.9	H	-2.33	62.92	74	-11.08
5350	52.7	AV	355	1.9	H	-2.33	50.37	54	-3.63
5350	64.88	PK	42	1.7	V	-2.33	62.55	74	-11.45
5350	52.56	AV	42	1.7	V	-2.33	50.23	54	-3.77
5460	64	PK	321	1.5	H	-2.26	61.74	74	-12.26
5460	52.48	AV	321	1.5	H	-2.26	50.22	54	-3.78
5460	63.5	PK	354	2.2	V	-2.26	61.24	74	-12.76
5460	52.3	AV	354	2.2	V	-2.26	50.04	54	-3.96
10420	58.06	PK	142	1.1	H	8.32	66.38	68.2	-1.82
10420	54.15	PK	295	1.5	V	8.32	62.47	68.2	-5.73

5725-5850 MHz:

Frequency (MHz)	Receiver		Turn-Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part15.407	
	Reading (dBμV)	Detector (PK/QP/AV)	Angle Degree	Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
802.11a									
5745 MHz									
5650	65.8	PK	29	1.9	H	-1.95	63.85	68.2	-4.35
5700	65.98	PK	134	2.3	H	-2.02	63.96	105.2	-41.24
5720	65.71	PK	115	1.1	H	-1.97	63.74	110.8	-47.06
5725	66.49	PK	261	2	H	-1.96	64.53	122.2	-57.67
5650	65.66	PK	337	2.2	V	-1.95	63.71	68.2	-4.49
5700	65.84	PK	69	1.1	V	-2.02	63.82	105.2	-41.38
5720	65.74	PK	129	2.1	V	-1.97	63.77	110.8	-47.03
5725	66.31	PK	120	1.6	V	-1.96	64.35	122.2	-57.85
11490	60.66	PK	290	2.4	H	6.63	67.29	74	-6.71
11490	45.94	AV	290	2.4	H	6.63	52.57	54	-1.43
11490	54.43	PK	108	2.3	V	6.63	61.06	74	-12.94
11490	38.49	AV	108	2.3	V	6.63	45.12	54	-8.88
5785 MHz									
11570	60.28	PK	164	1.3	H	6.59	66.87	74	-7.13
11570	45.6	AV	164	1.3	H	6.59	52.19	54	-1.81
11570	54.05	PK	248	1.3	V	6.59	60.64	74	-13.36
11570	38.24	AV	248	1.3	V	6.59	44.83	54	-9.17
5825 MHz									
5850	66.77	PK	173	2.1	H	-1.81	64.96	122.2	-57.24
5855	67.8	PK	210	2	H	-1.82	65.98	110.8	-44.82
5875	66.53	PK	336	1	H	-1.84	64.69	105.2	-40.51
5925	66.77	PK	16	2.2	H	-1.82	64.95	68.2	-3.25
5850	66.57	PK	224	2	V	-1.81	64.76	122.2	-57.44
5855	67.06	PK	331	1.6	V	-1.82	65.24	110.8	-45.56
5875	66.85	PK	7	2.1	V	-1.84	65.01	105.2	-40.19
5925	66.61	PK	336	2.3	V	-1.82	64.79	68.2	-3.41
11650	58.19	PK	167	2.2	H	6.77	64.96	74	-9.04
11650	43.62	AV	167	2.2	H	6.77	50.39	54	-3.61
11650	52.05	PK	122	2.4	V	6.77	58.82	74	-15.18
11650	36.48	AV	122	2.4	V	6.77	43.25	54	-10.75

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part15.407	
	Reading (dB μ V)	Detector (PK/QP/AV)		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11n20									
5745 MHz									
5650	65.63	PK	23	2.4	H	-1.95	63.68	68.2	-4.52
5700	65.74	PK	295	1.1	H	-2.02	63.72	105.2	-41.48
5720	66.11	PK	355	1.3	H	-1.97	64.14	110.8	-46.66
5725	66.49	PK	36	1.9	H	-1.96	64.53	122.2	-57.67
5650	65.51	PK	207	1	V	-1.95	63.56	68.2	-4.64
5700	65.87	PK	197	1.7	V	-2.02	63.85	105.2	-41.35
5720	66.18	PK	260	1.5	V	-1.97	64.21	110.8	-46.59
5725	66.33	PK	226	1.7	V	-1.96	64.37	122.2	-57.83
11490	60.83	PK	171	1.6	H	6.63	67.46	74	-6.54
11490	45.87	AV	171	1.6	H	6.63	52.5	54	-1.5
11490	54.9	PK	7	1.7	V	6.63	61.53	74	-12.47
11490	38.75	AV	7	1.7	V	6.63	45.38	54	-8.62
5785 MHz									
11570	59.84	PK	262	2.4	H	6.59	66.43	74	-7.57
11570	44.52	AV	262	2.4	H	6.59	51.11	54	-2.89
11570	53.6	PK	30	2.2	V	6.59	60.19	74	-13.81
11570	37.66	AV	30	2.2	V	6.59	44.25	54	-9.75
5825 MHz									
5850	67.06	PK	11	1.5	H	-1.81	65.25	122.2	-56.95
5855	66.94	PK	303	2	H	-1.82	65.12	110.8	-45.68
5875	66.73	PK	358	1.8	H	-1.84	64.89	105.2	-40.31
5925	66.65	PK	284	2.2	H	-1.82	64.83	68.2	-3.37
5850	66.85	PK	117	2.4	V	-1.81	65.04	122.2	-57.16
5855	66.73	PK	227	1.7	V	-1.82	64.91	110.8	-45.89
5875	66.9	PK	357	1.3	V	-1.84	65.06	105.2	-40.14
5925	66.57	PK	328	1.9	V	-1.82	64.75	68.2	-3.45
11650	58.42	PK	48	1.7	H	6.77	65.19	74	-8.81
11650	42.67	AV	48	1.7	H	6.77	49.44	54	-4.56
11650	51.59	PK	1	1.6	V	6.77	58.36	74	-15.64
11650	35.95	AV	1	1.6	V	6.77	42.72	54	-11.28

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part15.407	
	Reading (dBμV)	Detector (PK/QP/AV)		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
802.11n40									
5755 MHz									
5650	65.58	PK	262	1.1	H	-1.95	63.63	68.2	-4.57
5700	65.82	PK	289	1.6	H	-2.02	63.8	105.2	-41.4
5720	65.68	PK	258	1.4	H	-1.97	63.71	110.8	-47.09
5725	66.9	PK	280	1.3	H	-1.96	64.94	122.2	-57.26
5650	65.5	PK	48	1.2	V	-1.95	63.55	68.2	-4.65
5700	65.76	PK	14	2.1	V	-2.02	63.74	105.2	-41.46
5720	65.8	PK	63	1.9	V	-1.97	63.83	110.8	-46.97
5725	66.52	PK	179	1.8	V	-1.96	64.56	122.2	-57.64
11510	59.23	PK	154	2.1	H	6.59	65.82	74	-8.18
11510	45.27	AV	154	2.1	H	6.59	51.86	54	-2.14
11510	53.32	PK	50	2.2	V	6.59	59.91	74	-14.09
11510	38.9	AV	50	2.2	V	6.59	45.49	54	-8.51
5795 MHz									
5850	67.09	PK	165	1.7	H	-1.81	65.28	122.2	-56.92
5855	66.91	PK	193	1.1	H	-1.82	65.09	110.8	-45.71
5875	66.9	PK	208	2.5	H	-1.84	65.06	105.2	-40.14
5925	66.83	PK	34	1.3	H	-1.82	65.01	68.2	-3.19
5850	66.96	PK	283	2.3	V	-1.81	65.15	122.2	-57.05
5855	66.85	PK	125	2.4	V	-1.82	65.03	110.8	-45.77
5875	66.8	PK	114	1.9	V	-1.84	64.96	105.2	-40.24
5925	66.72	PK	154	1.8	V	-1.82	64.9	68.2	-3.3
11590	58.27	PK	135	2.2	H	6.57	64.84	74	-9.16
11590	44.72	AV	135	2.2	H	6.57	51.29	54	-2.71
11590	52.33	PK	270	1.1	V	6.57	58.9	74	-15.1
11590	37.95	AV	270	1.1	V	6.57	44.52	54	-9.48

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part15.407	
	Reading (dBμV)	Detector (PK/QP/AV)		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
802.11ac20									
5745 MHz									
5650	65.8	PK	119	1.4	H	-1.95	63.85	68.2	-4.35
5700	65.95	PK	323	1.9	H	-2.02	63.93	105.2	-41.27
5720	66.41	PK	145	1.2	H	-1.97	64.44	110.8	-46.36
5725	66.73	PK	359	1.3	H	-1.96	64.77	122.2	-57.43
5650	65.69	PK	219	1.3	V	-1.95	63.74	68.2	-4.46
5700	65.9	PK	330	2	V	-2.02	63.88	105.2	-41.32
5720	66.28	PK	276	1.1	V	-1.97	64.31	110.8	-46.49
5725	66.56	PK	204	2.3	V	-1.96	64.6	122.2	-57.6
11490	61.06	PK	29	2.2	H	6.63	67.69	74	-6.31
11490	46.02	AV	29	2.2	H	6.63	52.65	54	-1.35
11490	55.2	PK	174	1.1	V	6.63	61.83	74	-12.17
11490	38.88	AV	174	1.1	V	6.63	45.51	54	-8.49
5785 MHz									
11570	60.67	PK	123	2.3	H	6.59	67.26	74	-6.74
11570	45.26	AV	123	2.3	H	6.59	51.85	54	-2.15
11570	54.54	PK	257	1.2	V	6.59	61.13	74	-12.87
11570	38.39	AV	257	1.2	V	6.59	44.98	54	-9.02
5825 MHz									
5850	67.12	PK	83	1.1	H	-1.81	65.31	122.2	-56.89
5855	67.06	PK	131	1.9	H	-1.82	65.24	110.8	-45.56
5875	66.99	PK	272	1.2	H	-1.84	65.15	105.2	-40.05
5925	66.81	PK	288	2.2	H	-1.82	64.99	68.2	-3.21
5850	66.87	PK	212	2.3	V	-1.81	65.06	122.2	-57.14
5855	66.9	PK	139	2.3	V	-1.82	65.08	110.8	-45.72
5875	67.05	PK	334	2.1	V	-1.84	65.21	105.2	-39.99
5925	66.74	PK	120	1.4	V	-1.82	64.92	68.2	-3.28
11650	58.74	PK	217	1.1	H	6.77	65.51	74	-8.49
11650	43.03	AV	217	1.1	H	6.77	49.8	54	-4.2
11650	52.15	PK	158	2	V	6.77	58.92	74	-15.08
11650	36.39	AV	158	2	V	6.77	43.16	54	-10.84

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part15.407	
	Reading (dBμV)	Detector (PK/QP/AV)		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
802.11ac40									
5755 MHz									
5650	65.79	PK	242	1.6	H	-1.95	63.84	68.2	-4.36
5700	65.97	PK	125	1.8	H	-2.02	63.95	105.2	-41.25
5720	65.8	PK	257	2	H	-1.97	63.83	110.8	-46.97
5725	67.16	PK	349	1.3	H	-1.96	65.2	122.2	-57
5650	65.68	PK	36	1.8	V	-1.95	63.73	68.2	-4.47
5700	65.84	PK	36	2	V	-2.02	63.82	105.2	-41.38
5720	66.11	PK	266	1.8	V	-1.97	64.14	110.8	-46.66
5725	66.84	PK	104	1.6	V	-1.96	64.88	122.2	-57.32
11510	59.74	PK	176	1.7	H	6.59	66.33	74	-7.67
11510	45.5	AV	176	1.7	H	6.59	52.09	54	-1.91
11510	54.02	PK	134	2.2	V	6.59	60.61	74	-13.39
11510	36.11	AV	134	2.2	V	6.59	42.7	54	-11.3
5795 MHz									
5850	67.57	PK	294	2.2	H	-1.81	65.76	122.2	-56.44
5855	67.16	PK	195	1.2	H	-1.82	65.34	110.8	-45.46
5875	67.07	PK	284	2.3	H	-1.84	65.23	105.2	-39.97
5925	66.91	PK	240	2	H	-1.82	65.09	68.2	-3.11
5850	67.16	PK	192	2	V	-1.81	65.35	122.2	-56.85
5855	66.98	PK	88	1.6	V	-1.82	65.16	110.8	-45.64
5875	66.86	PK	173	1.2	V	-1.84	65.02	105.2	-40.18
5925	66.76	PK	82	1.9	V	-1.82	64.94	68.2	-3.26
11590	58.8	PK	348	2.4	H	6.57	65.37	74	-8.63
11590	45.12	AV	348	2.4	H	6.57	51.69	54	-2.31
11590	52.89	PK	19	1.5	V	6.57	59.46	74	-14.54
11590	38.22	AV	19	1.5	V	6.57	44.79	54	-9.21

Frequency (MHz)	Receiver		Turn-Table Angle Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part15.407	
	Reading (dB μ V)	Detector (PK/QP/AV)		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
802.11ac80									
5775 MHz									
5650	65.62	PK	282	2	H	-1.95	63.67	68.2	-4.53
5700	66.08	PK	70	2.1	H	-2.02	64.06	105.2	-41.14
5720	66.37	PK	219	1.1	H	-1.97	64.4	110.8	-46.4
5725	66.67	PK	128	2.2	H	-1.96	64.71	122.2	-57.49
5650	65.51	PK	93	1.4	V	-1.95	63.56	68.2	-4.64
5700	65.96	PK	1	2.3	V	-2.02	63.94	105.2	-41.26
5720	66.2	PK	277	1.7	V	-1.97	64.23	110.8	-46.57
5725	66.78	PK	346	1.8	V	-1.96	64.82	122.2	-57.38
5850	67.24	PK	45	2.4	H	-1.81	65.43	122.2	-56.77
5855	66.8	PK	286	1.7	H	-1.82	64.98	110.8	-45.82
5875	66.96	PK	101	1.8	H	-1.84	65.12	105.2	-40.08
5925	66.77	PK	261	1.7	H	-1.82	64.95	68.2	-3.25
5850	67.11	PK	115	2.4	V	-1.81	65.3	122.2	-56.9
5855	66.97	PK	33	1.9	V	-1.82	65.15	110.8	-45.65
5875	66.9	PK	183	1.7	V	-1.84	65.06	105.2	-40.14
5925	66.66	PK	253	2	V	-1.82	64.84	68.2	-3.36
11550	59.64	PK	319	1.3	H	6.61	66.25	74	-7.75
11550	45.79	AV	319	1.3	H	6.61	52.4	54	-1.6
11550	53.45	PK	266	1.2	V	6.61	60.06	74	-13.94
11550	38.91	AV	266	1.2	V	6.61	45.52	54	-8.48

Note:

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

Corrected Amplitude = Corrected Factor + Reading

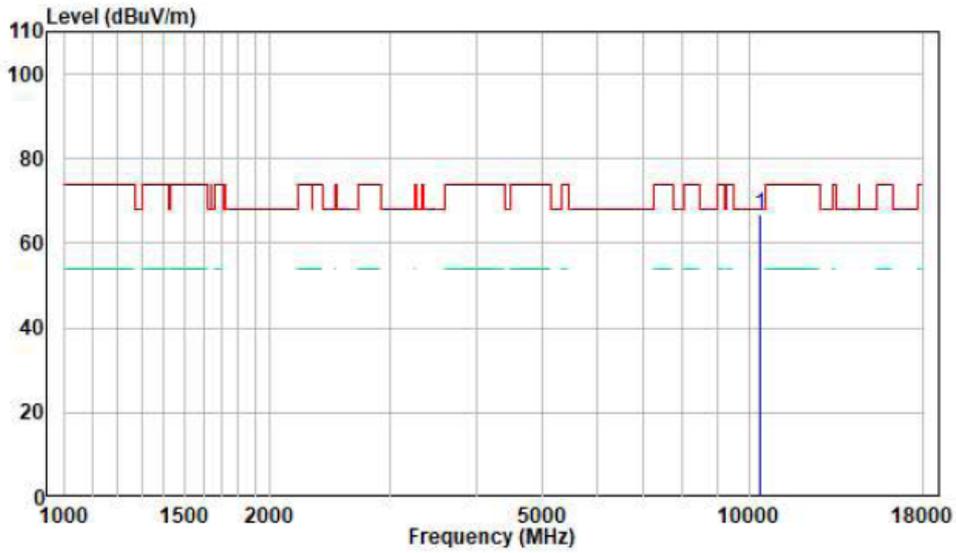
Margin = Limit - Corrected. Amplitude

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

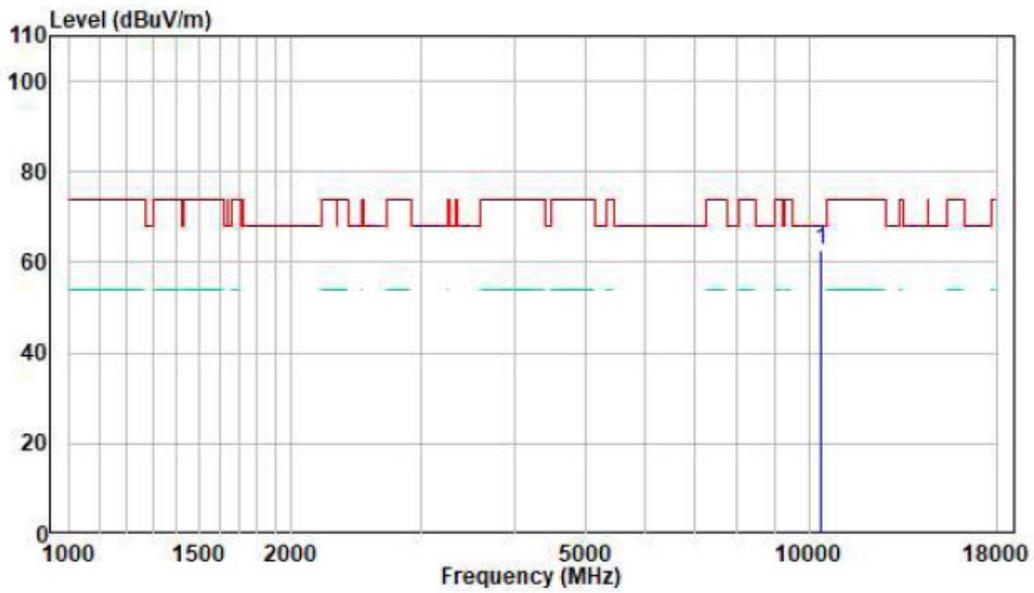
1 GHz - 18 GHz: (Pre-Scan plots)

802.11 a, 5745MHz

Horizontal



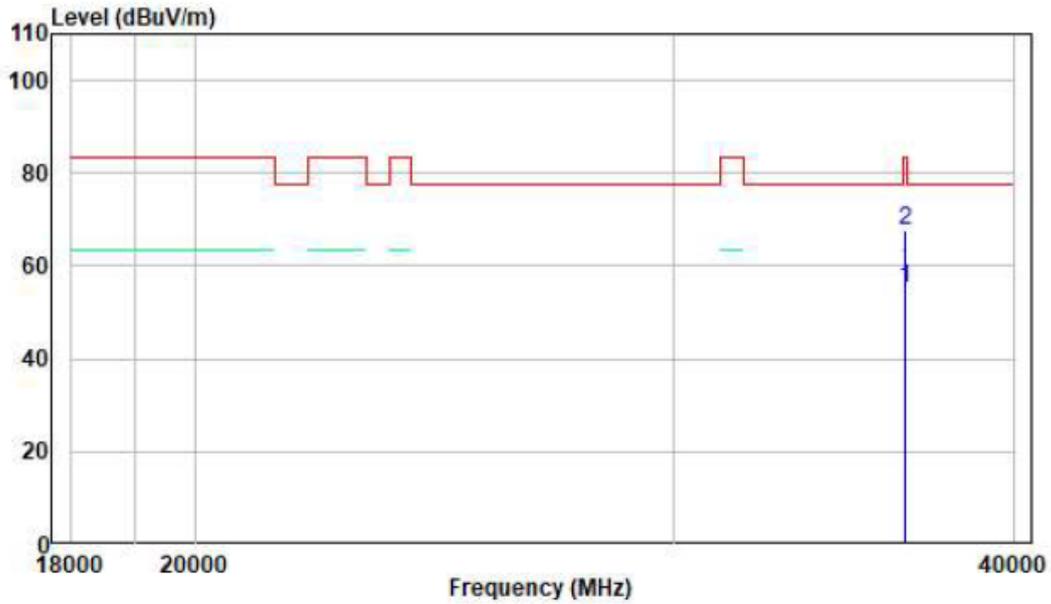
Vertical



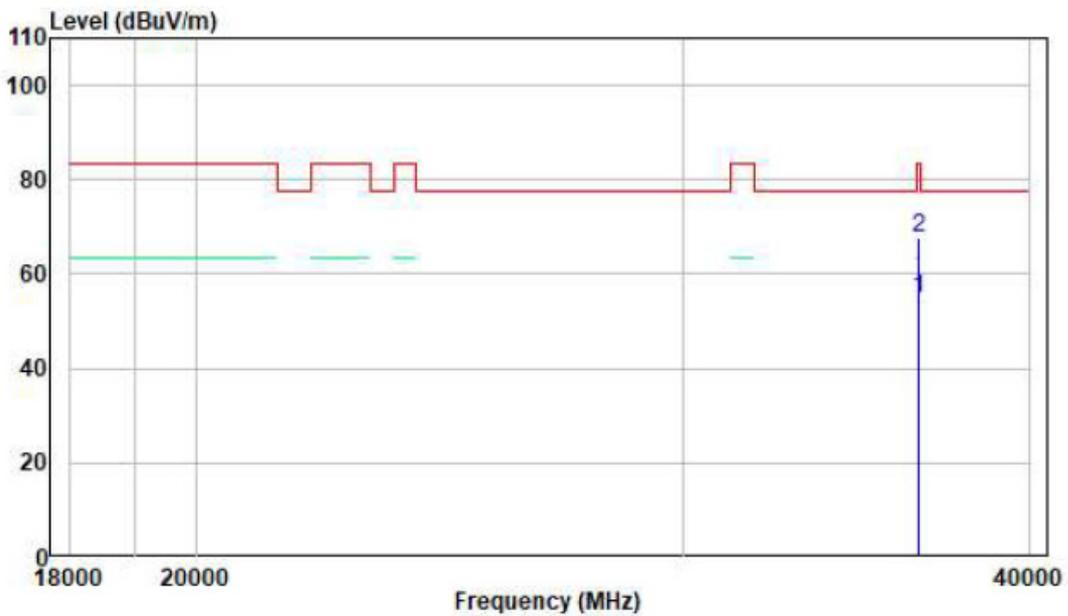
18-40GHz: (Pre-Scan plots)

802.11a, 5745MHz

Horizontal



Vertical



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

Applicable Standard

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

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

Test Procedure

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

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

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data**Environmental Conditions**

Temperature:	19°C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Key Pei from 2022-03-04 to 2022-03-24

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

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

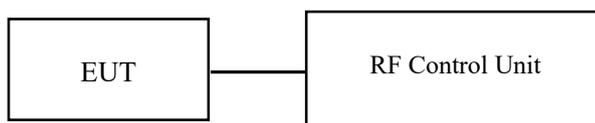
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting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

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

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

Test Procedure

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



Note: the RF Control Unit has a built-in power sensor.

Test Data**Environmental Conditions**

Temperature:	19°C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Key Pei from 2022-03-04 to 2022-03-24

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

FCC §15.407(a) - POWER SPECTRAL DENSITY

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

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

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

Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
- b) Set $VBW \geq 3 \text{ RBW}$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.



Test Data**Environmental Conditions**

Temperature:	19°C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Key Pei on 2022-03-24

EUT operation mode: Transmitting

Test Result: Pass

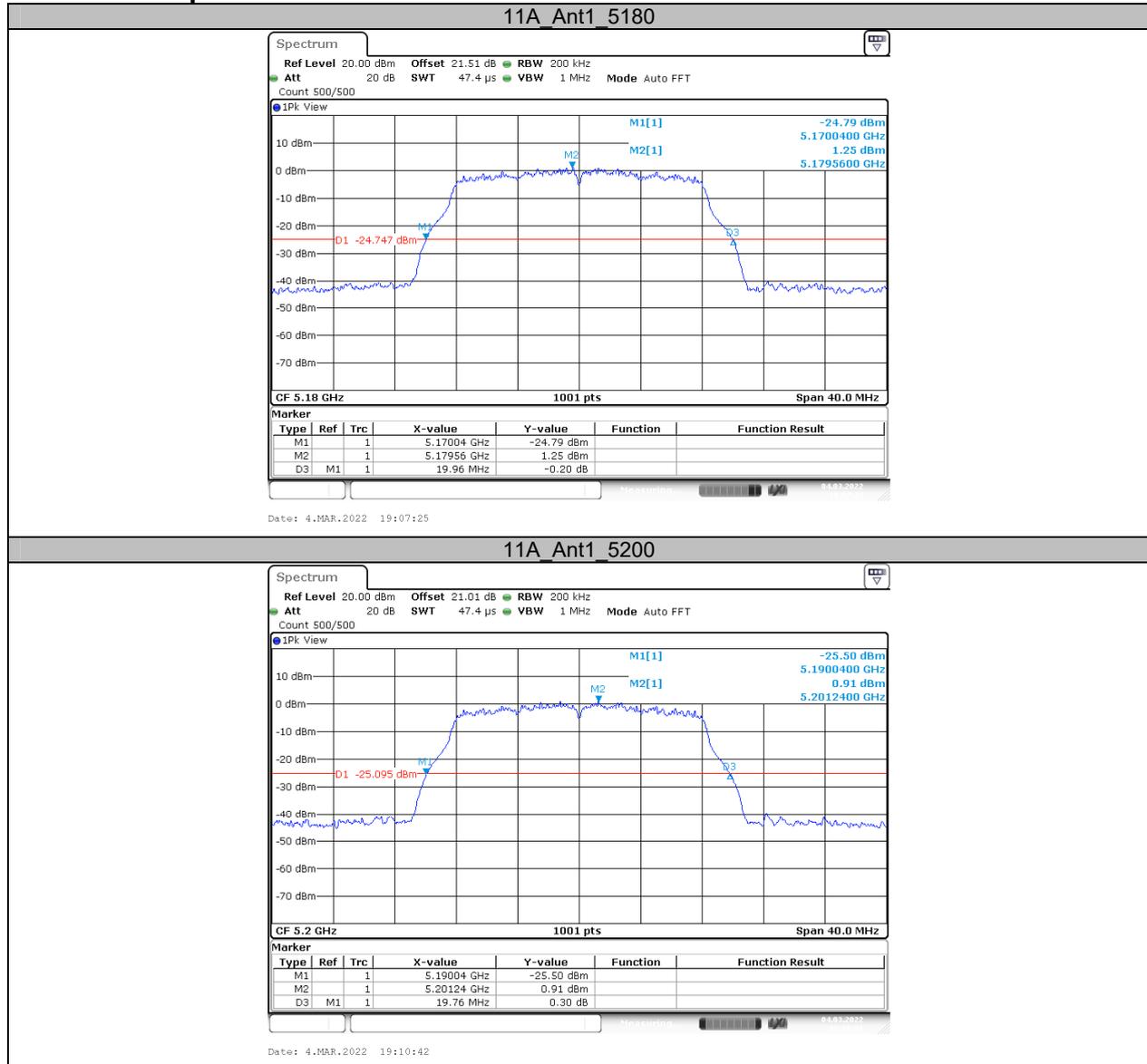
Please refer to the Appendix.

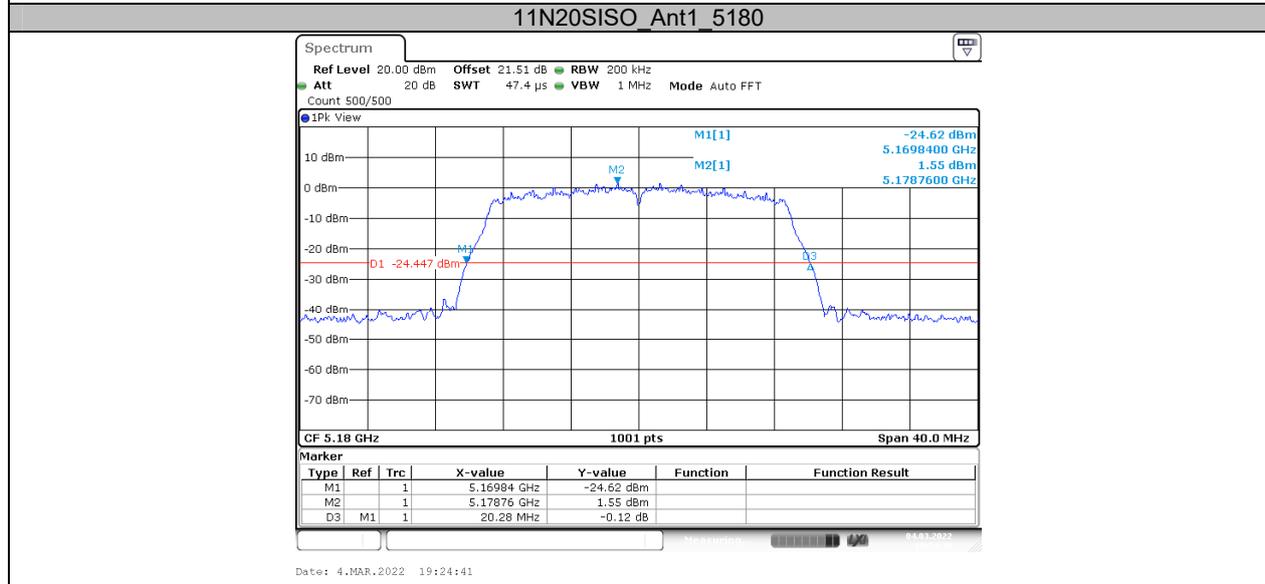
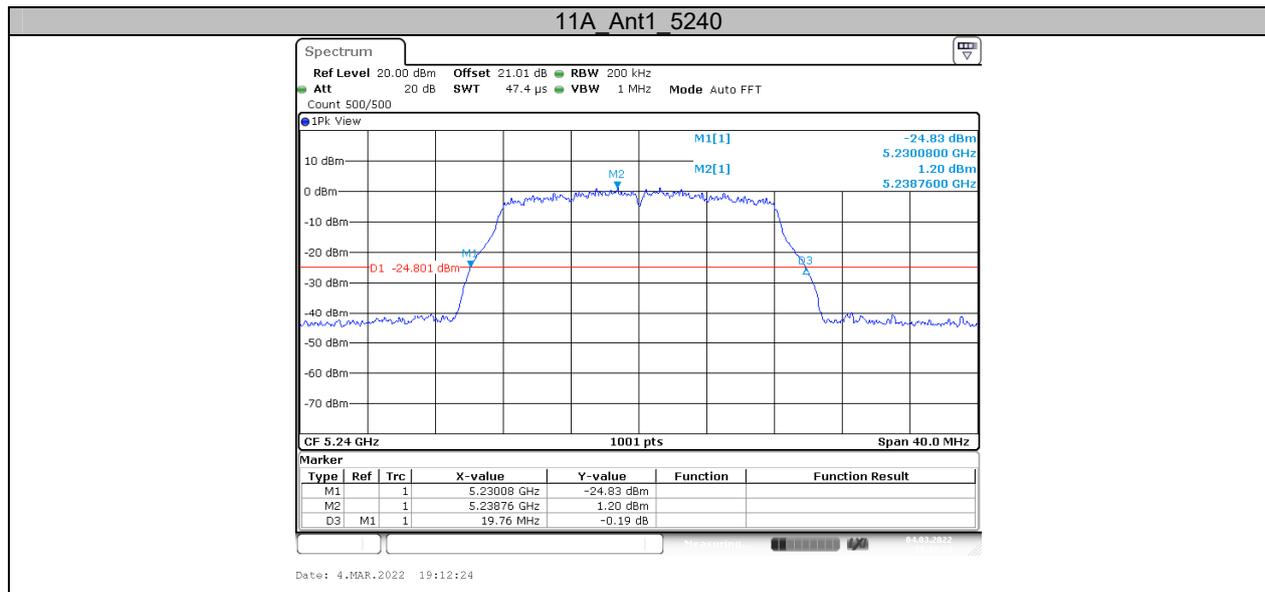
APPENDIX

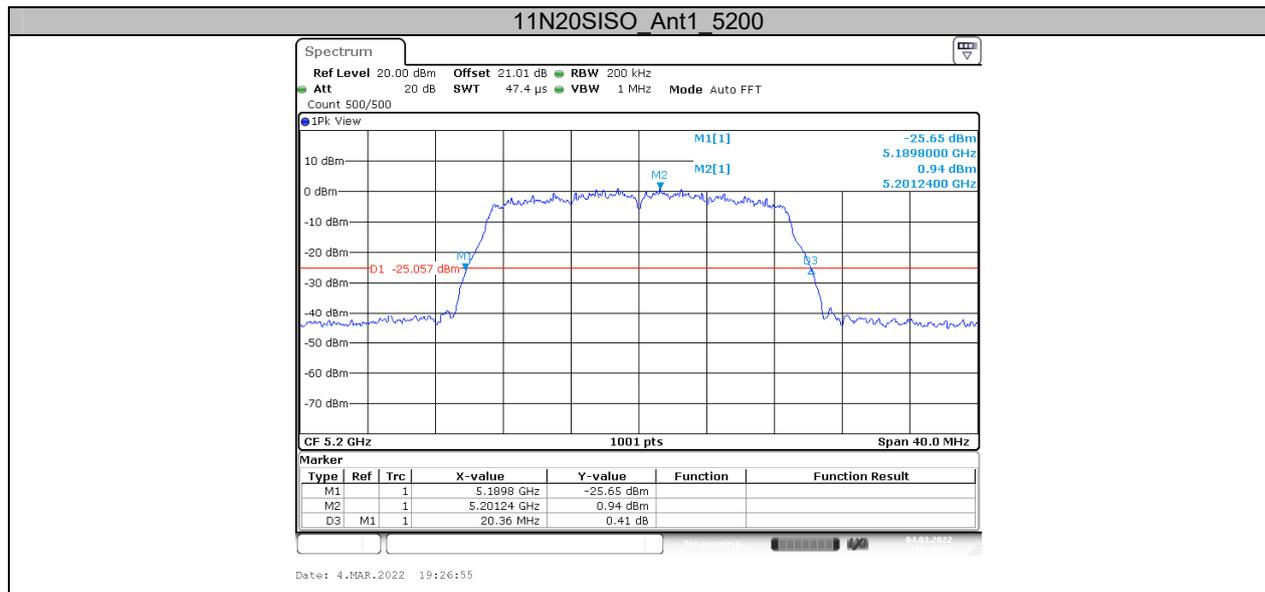
Appendix A1: Emission Bandwidth Test Result

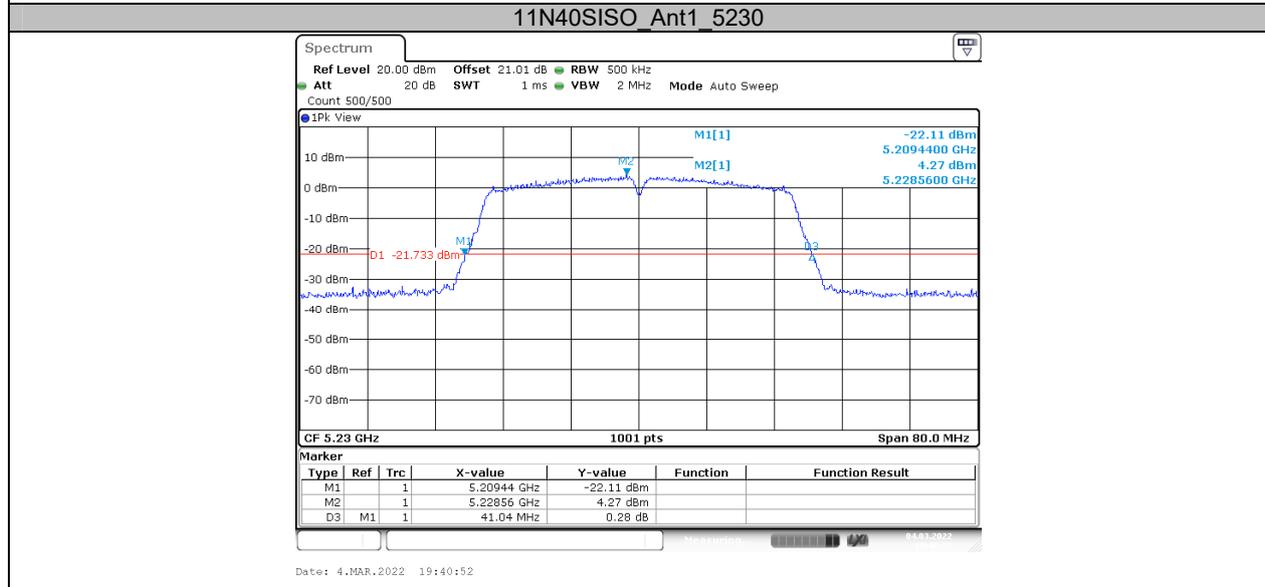
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.960	5170.040	5190.000	---	PASS
		5200	19.760	5190.040	5209.800	---	PASS
		5240	19.760	5230.080	5249.840	---	PASS
11N20SISO	Ant1	5180	20.280	5169.840	5190.120	---	PASS
		5200	20.360	5189.800	5210.160	---	PASS
		5240	20.200	5229.920	5250.120	---	PASS
11N40SISO	Ant1	5190	41.120	5169.520	5210.640	---	PASS
		5230	41.040	5209.440	5250.480	---	PASS
11AC20SISO	Ant1	5180	20.240	5169.920	5190.160	---	PASS
		5200	20.160	5189.960	5210.120	---	PASS
		5240	20.240	5229.920	5250.160	---	PASS
11AC40SISO	Ant1	5190	41.040	5169.440	5210.480	---	PASS
		5230	41.440	5209.280	5250.720	---	PASS
11AC80SISO	Ant1	5210	82.400	5168.720	5251.120	---	PASS

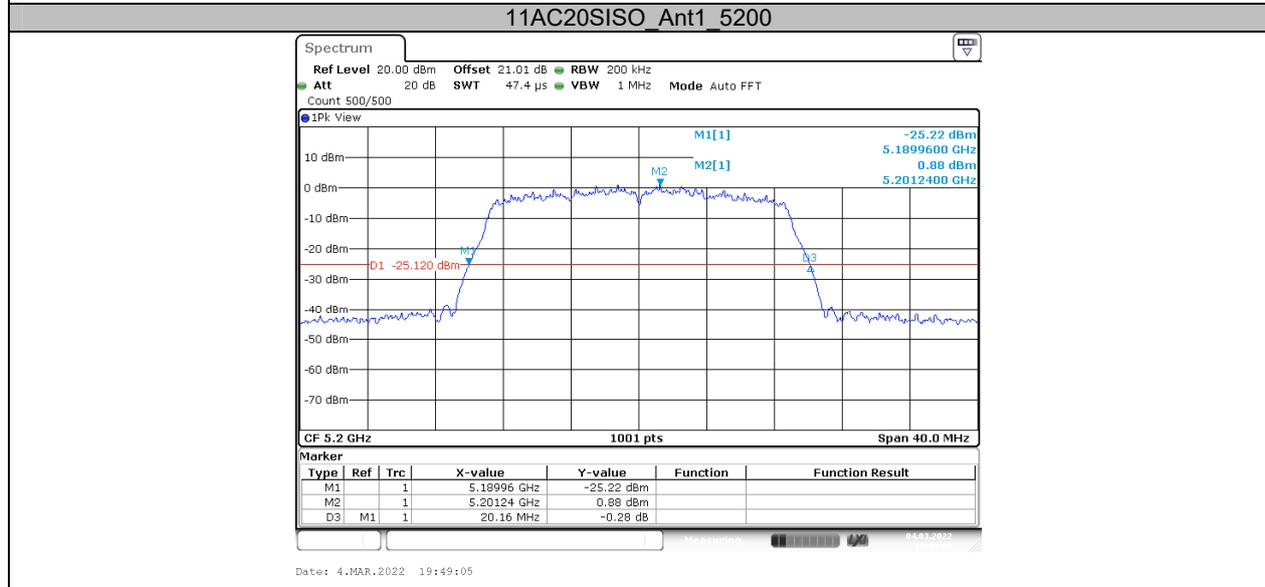
Test Graphs



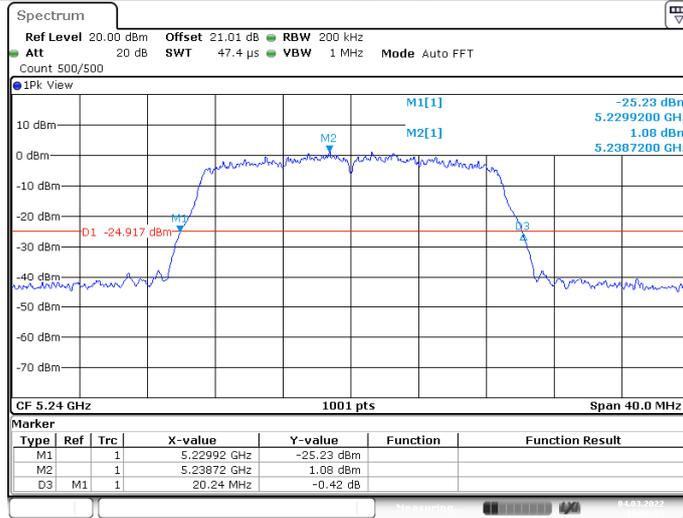






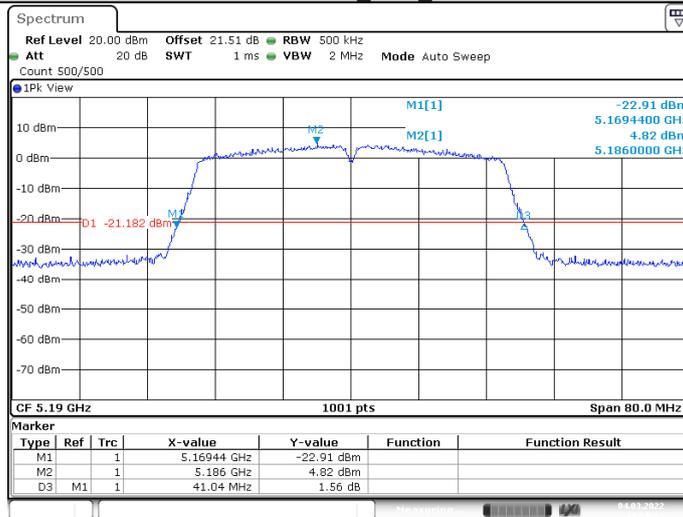


11AC20SISO Ant1_5240

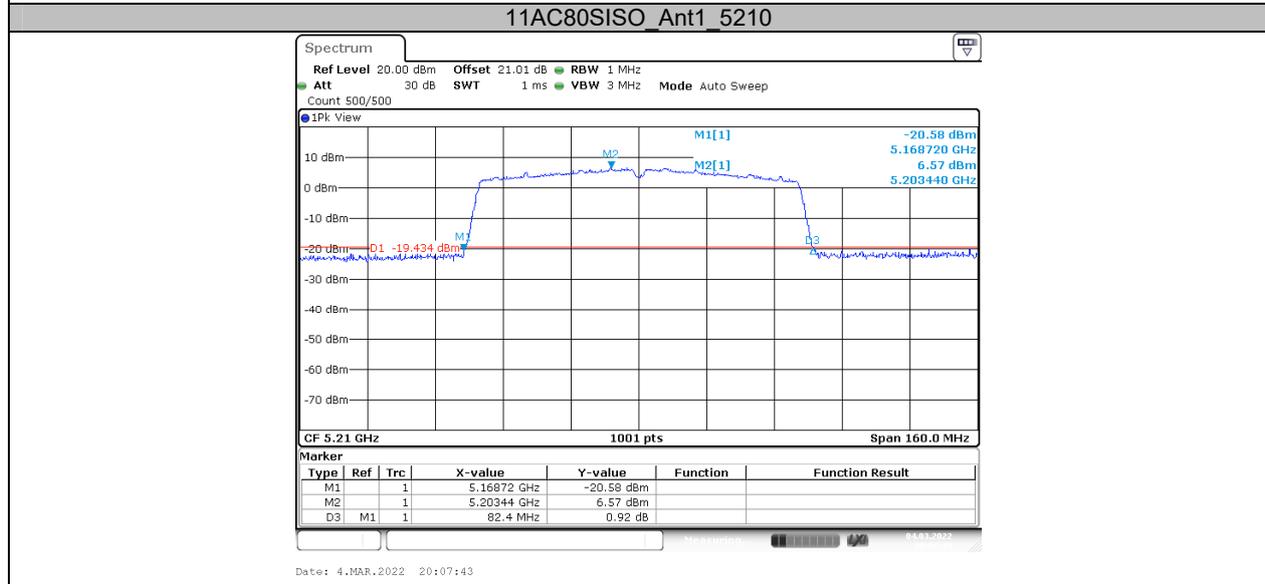


Date: 4.MAR.2022 19:50:54

11AC40SISO Ant1_5190



Date: 4.MAR.2022 19:59:33

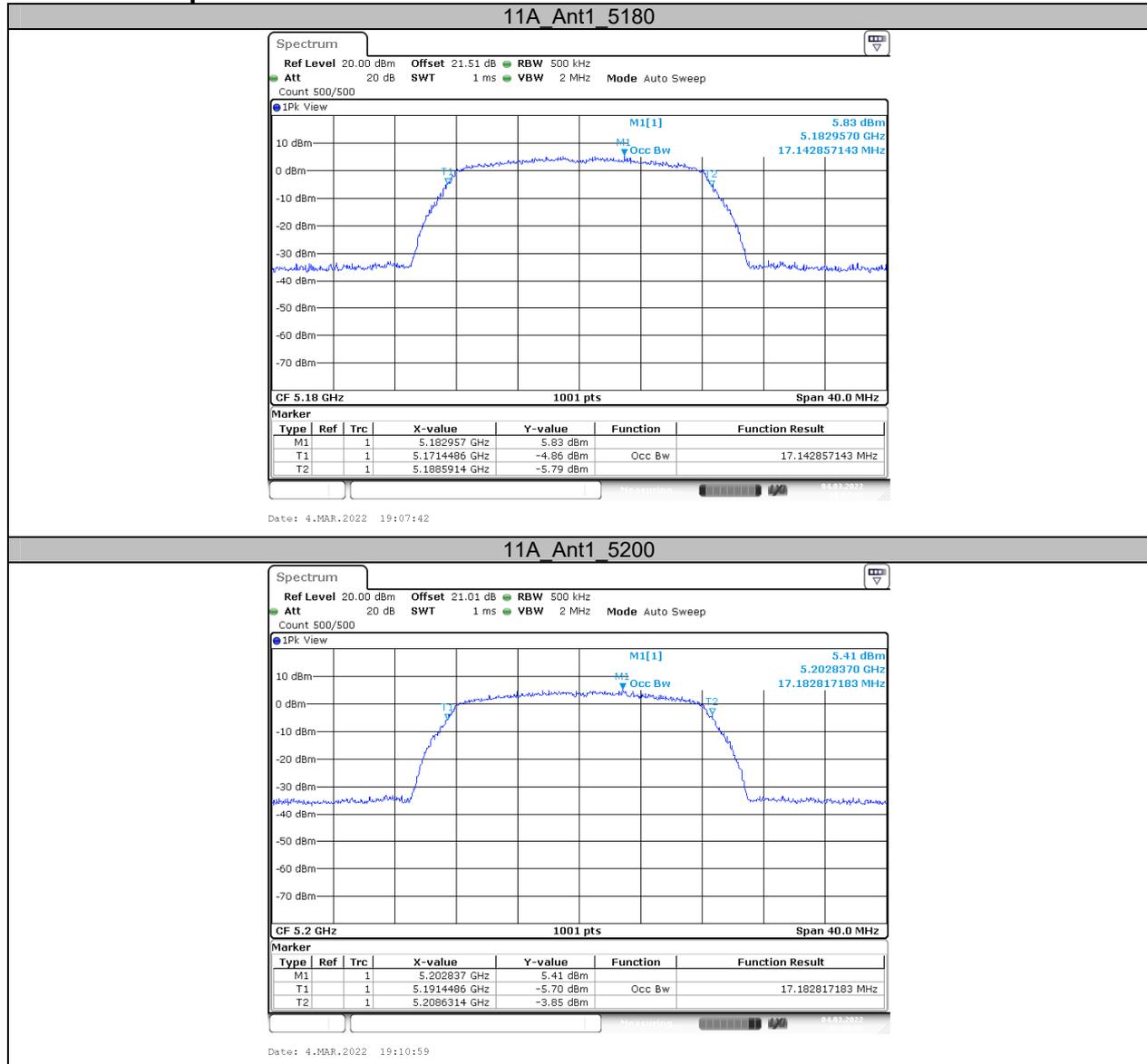


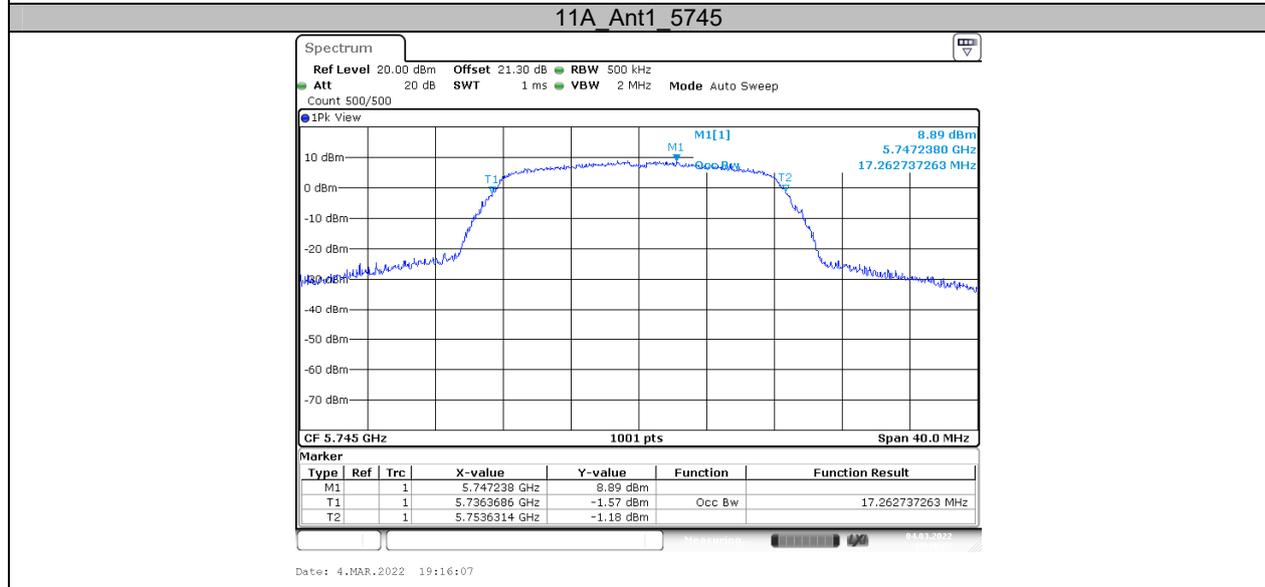
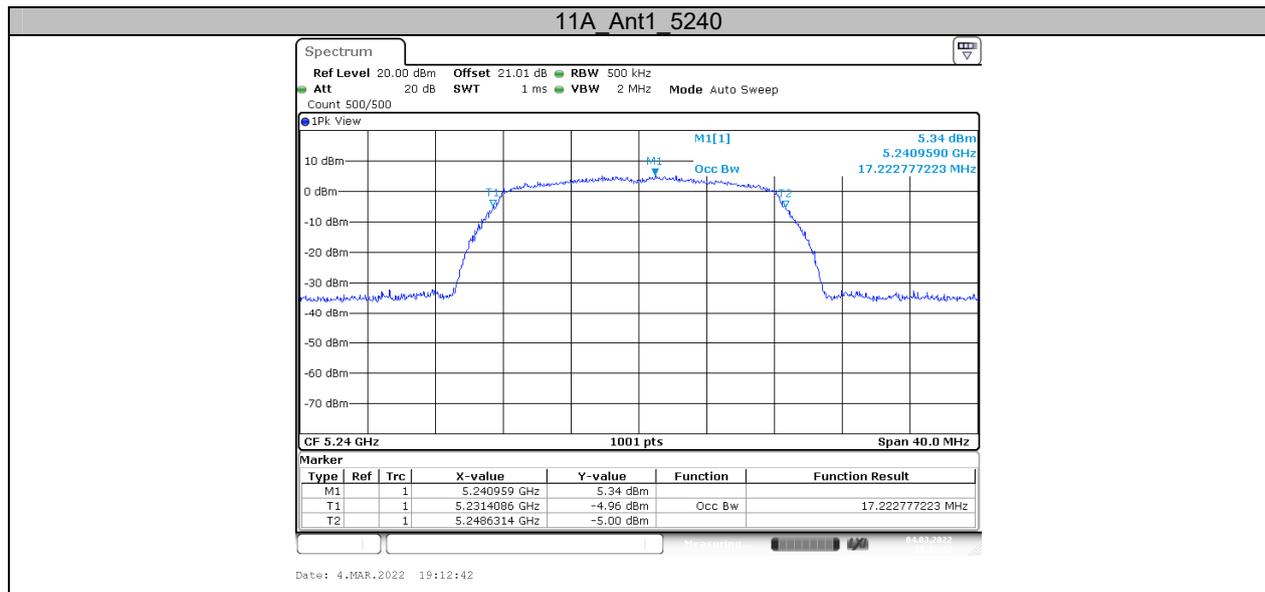
Appendix A2: Occupied channel bandwidth Test Result

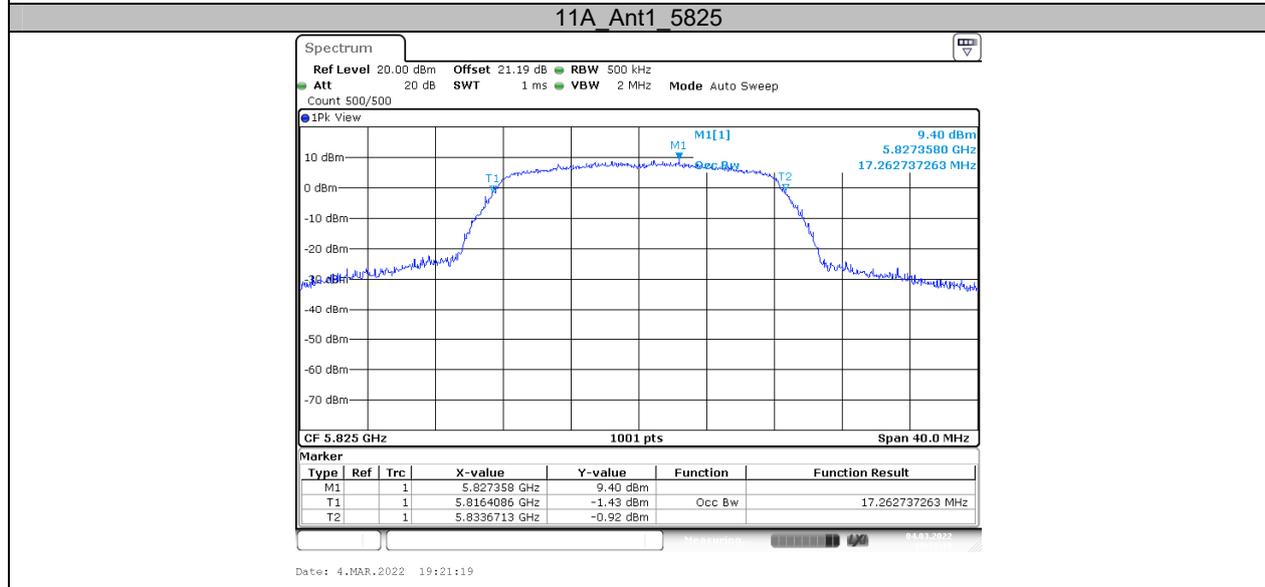
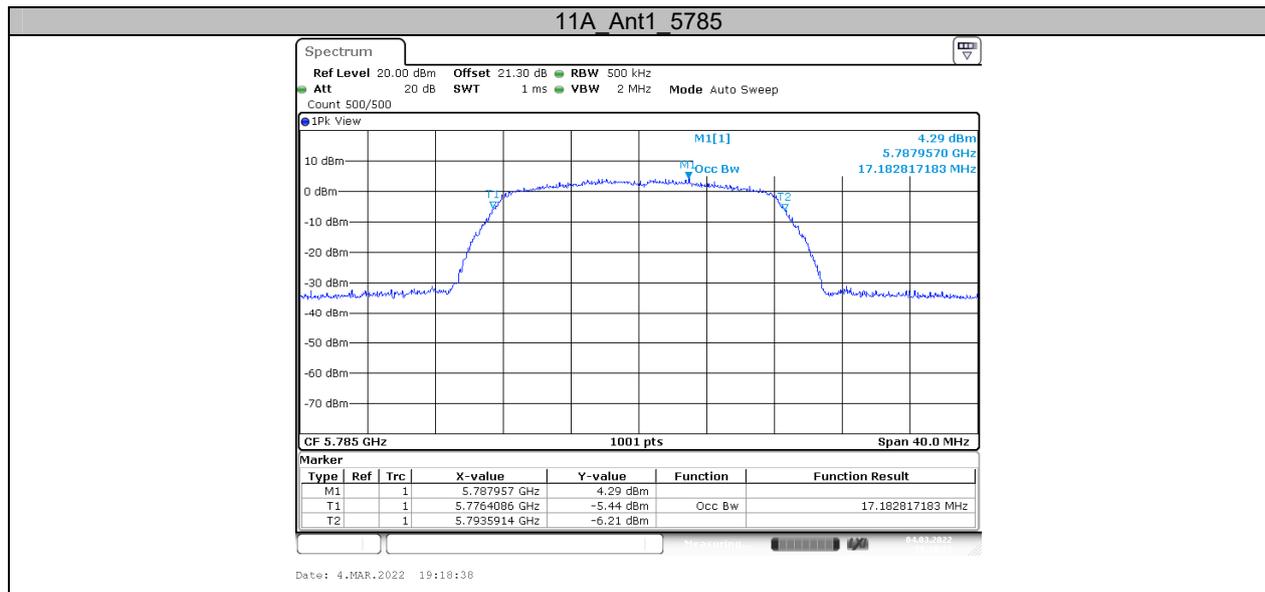
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.143	5171.449	5188.591	---	PASS
		5200	17.183	5191.449	5208.631	---	PASS
		5240	17.223	5231.409	5248.631	---	PASS
		5745	17.263	5736.369	5753.631	---	PASS
		5785	17.183	5776.409	5793.591	---	PASS
		5825	17.263	5816.409	5833.671	---	PASS
11N20SISO	Ant1	5180	18.102	5170.969	5189.071	---	PASS
		5200	18.062	5190.969	5209.031	---	PASS
		5240	18.022	5231.009	5249.031	---	PASS
		5745	18.102	5735.969	5754.071	---	PASS
		5785	18.062	5775.969	5794.031	---	PASS
		5825	18.102	5815.969	5834.071	---	PASS
11N40SISO	Ant1	5190	36.444	5171.778	5208.222	---	PASS
		5230	36.444	5211.858	5248.302	---	PASS
		5755	36.523	5736.778	5773.302	---	PASS
		5795	36.523	5776.778	5813.302	---	PASS
11AC20SISO	Ant1	5180	17.982	5171.009	5188.991	---	PASS
		5200	18.062	5190.969	5209.031	---	PASS
		5240	18.022	5231.009	5249.031	---	PASS
		5745	18.102	5735.969	5754.071	---	PASS
		5785	18.022	5776.009	5794.031	---	PASS
		5825	18.062	5816.009	5834.071	---	PASS
11AC40SISO	Ant1	5190	36.364	5171.858	5208.222	---	PASS
		5230	36.444	5211.858	5248.302	---	PASS
		5755	36.444	5736.858	5773.302	---	PASS
		5795	36.444	5776.778	5813.222	---	PASS
11AC80SISO	Ant1	5210	75.445	5172.278	5247.722	---	PASS
		5775	75.285	5737.438	5812.722	---	PASS

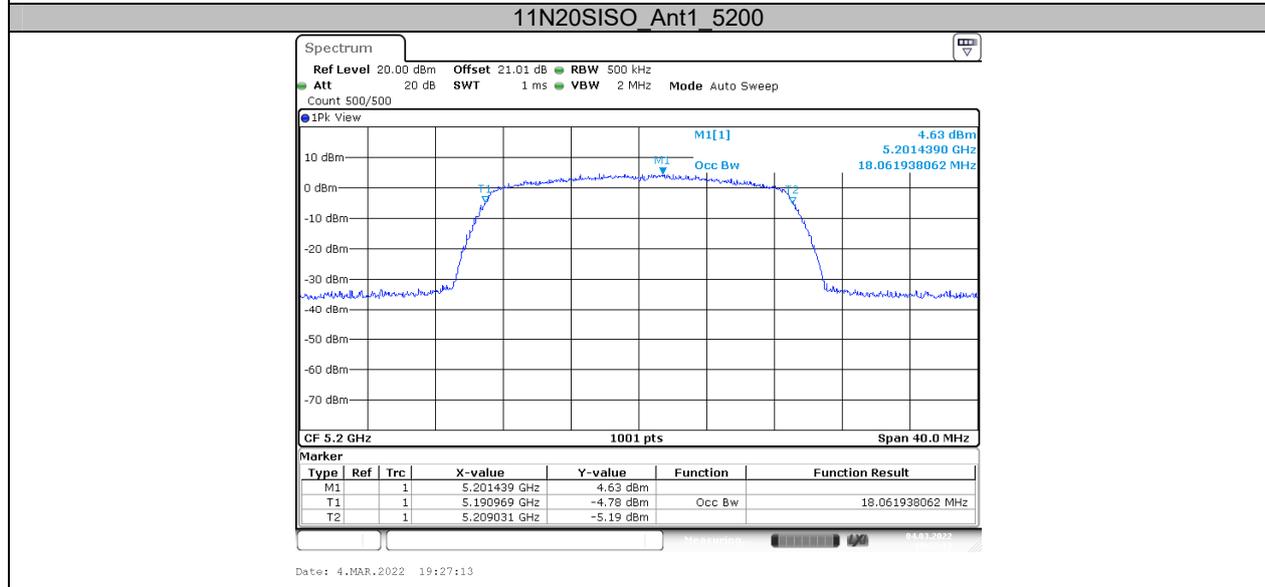
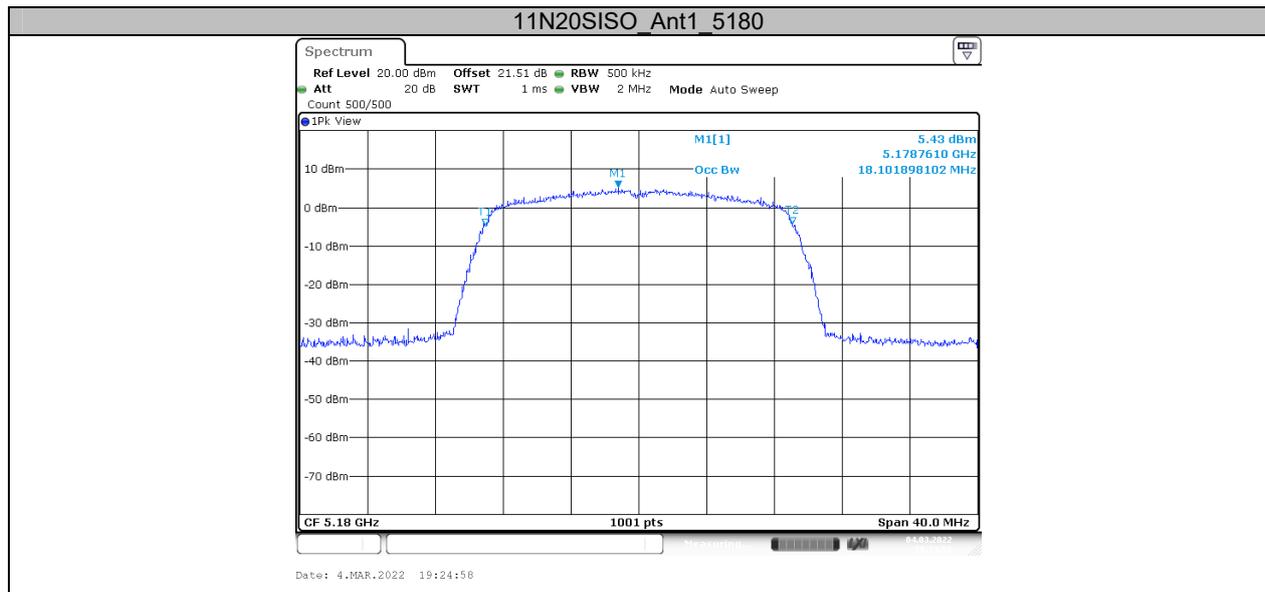
Note: the device not operating with any OBW fall within 5250-5350MHz and 5470-5725MHz range.

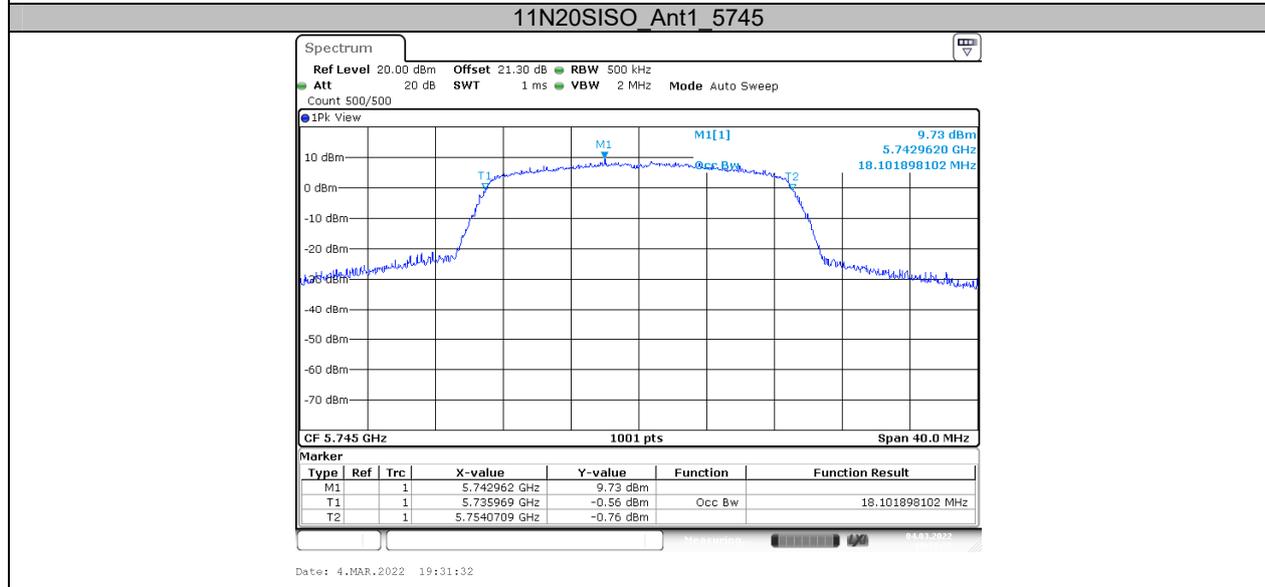
Test Graphs

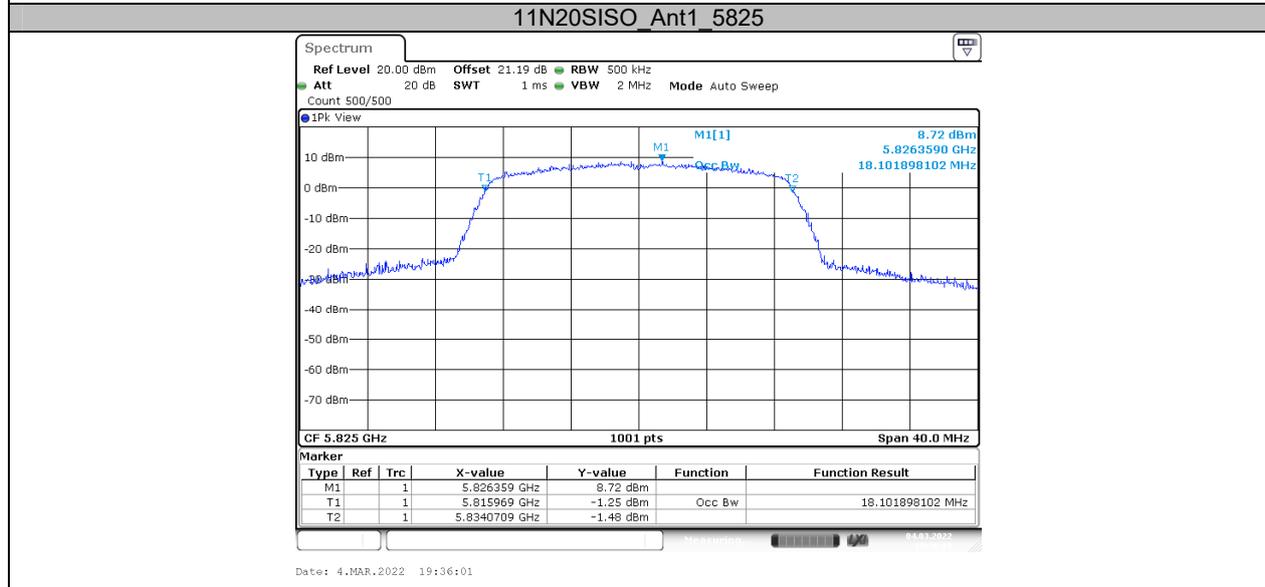


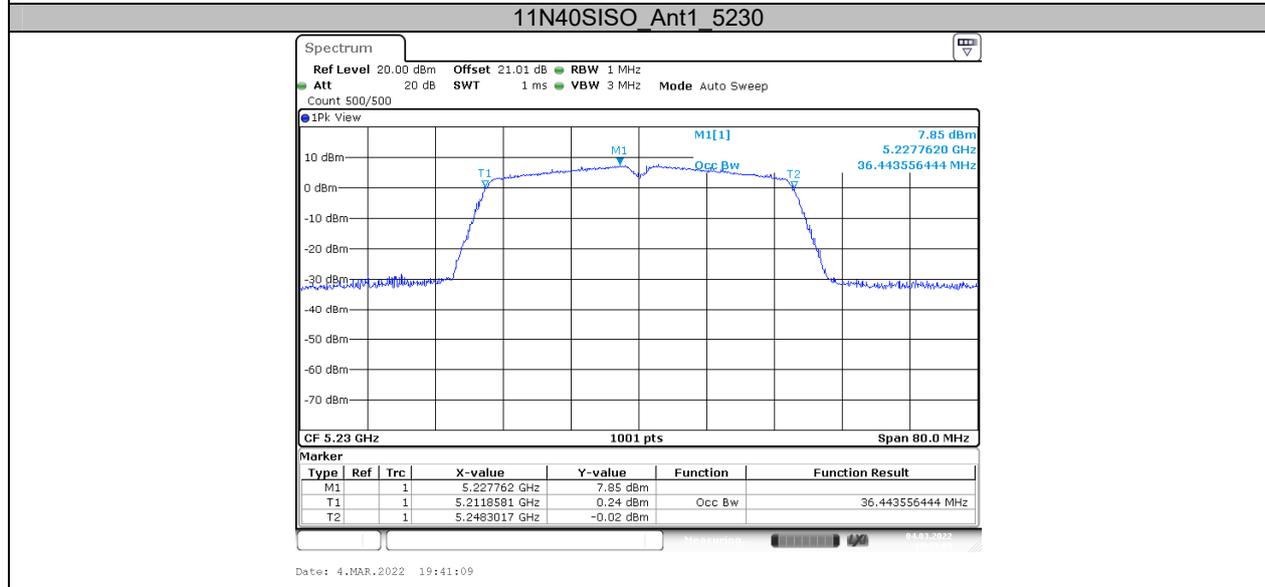
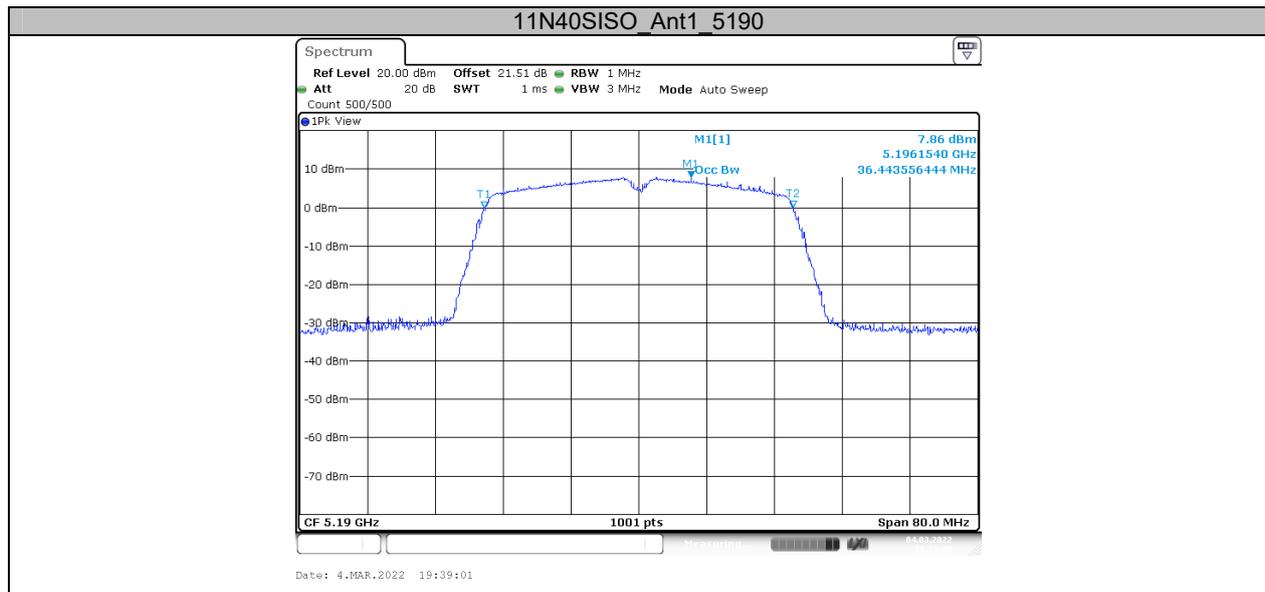


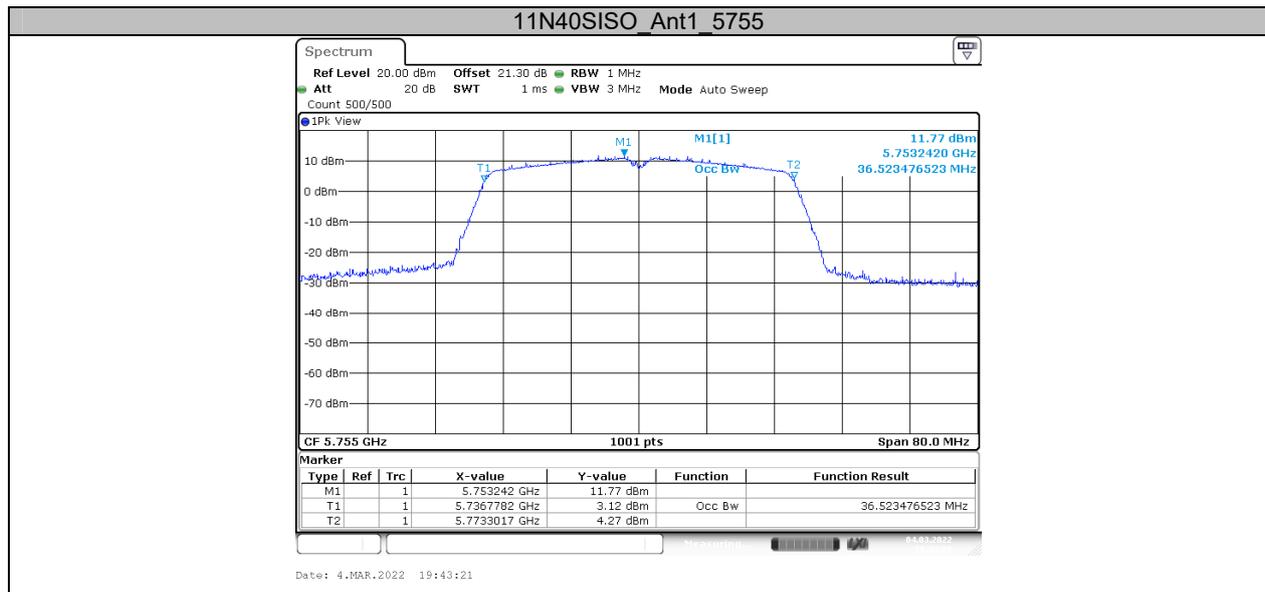


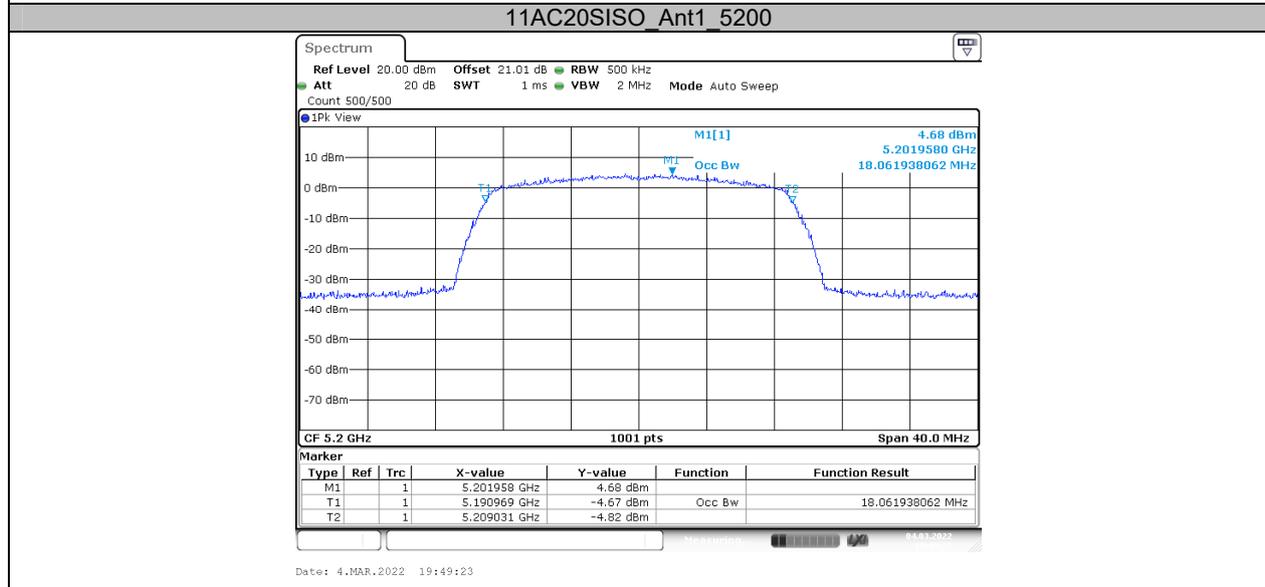


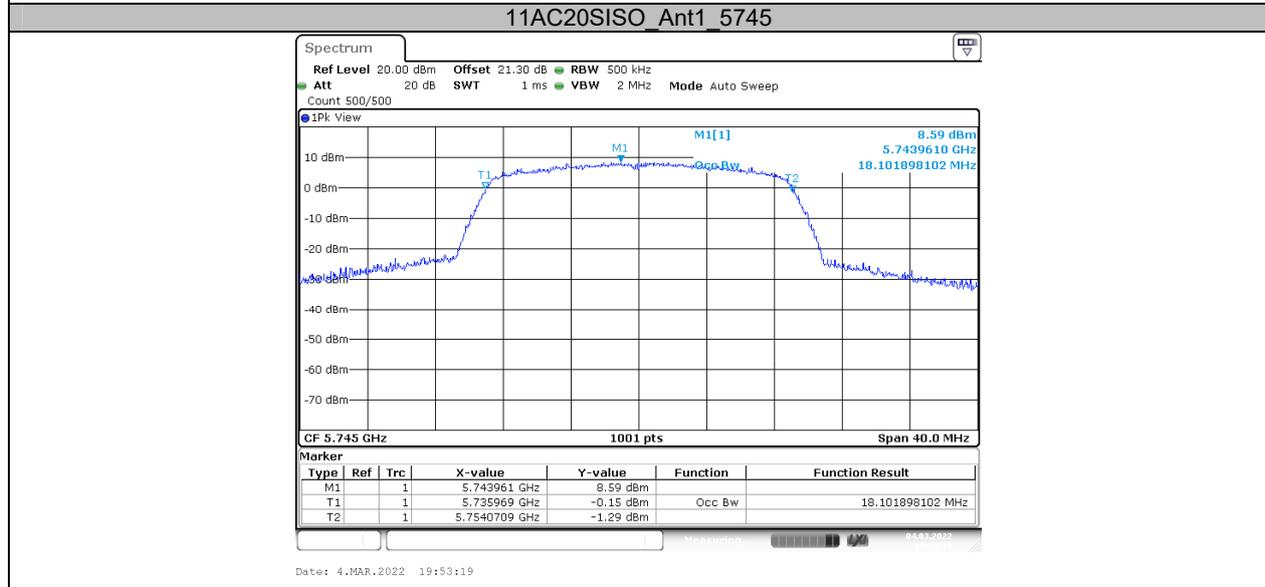
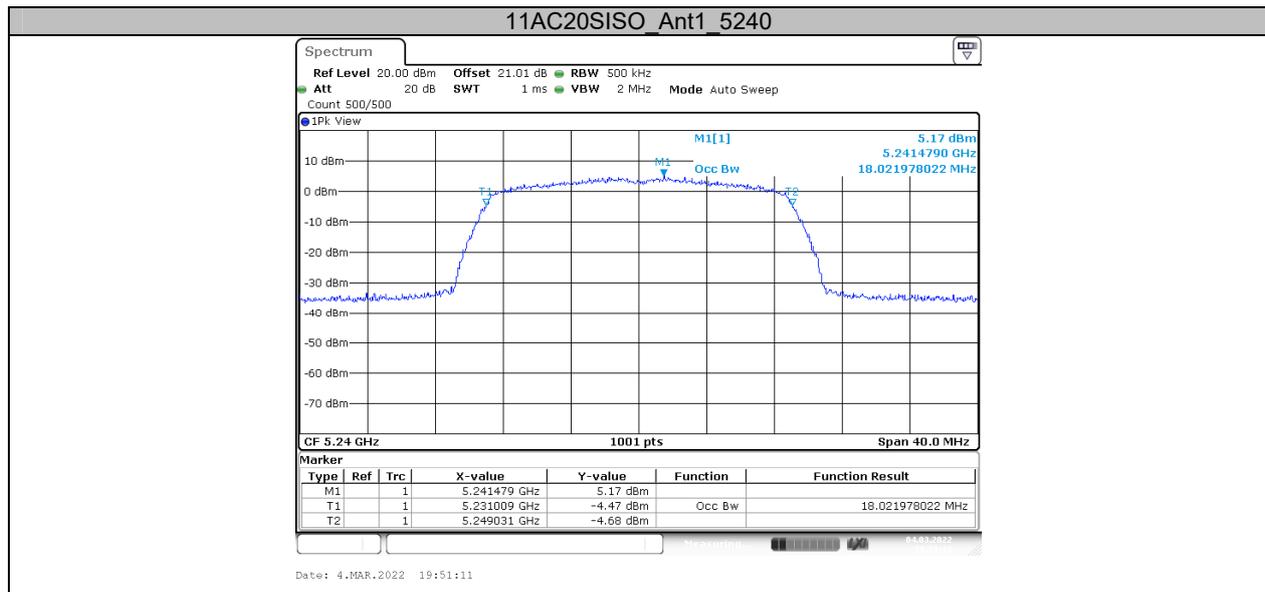


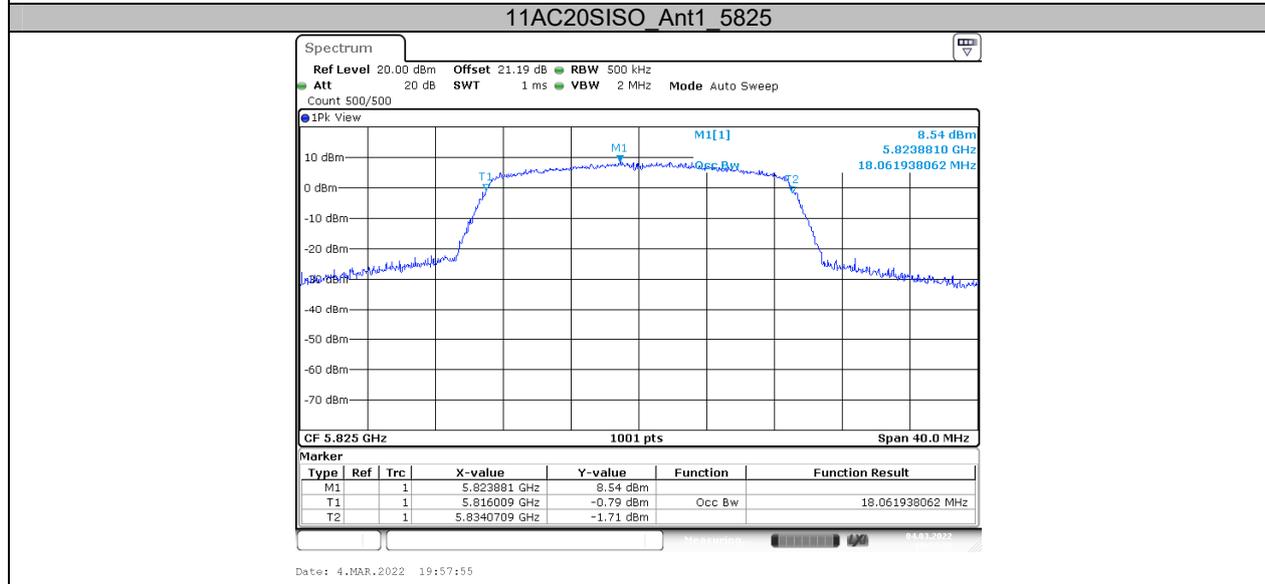
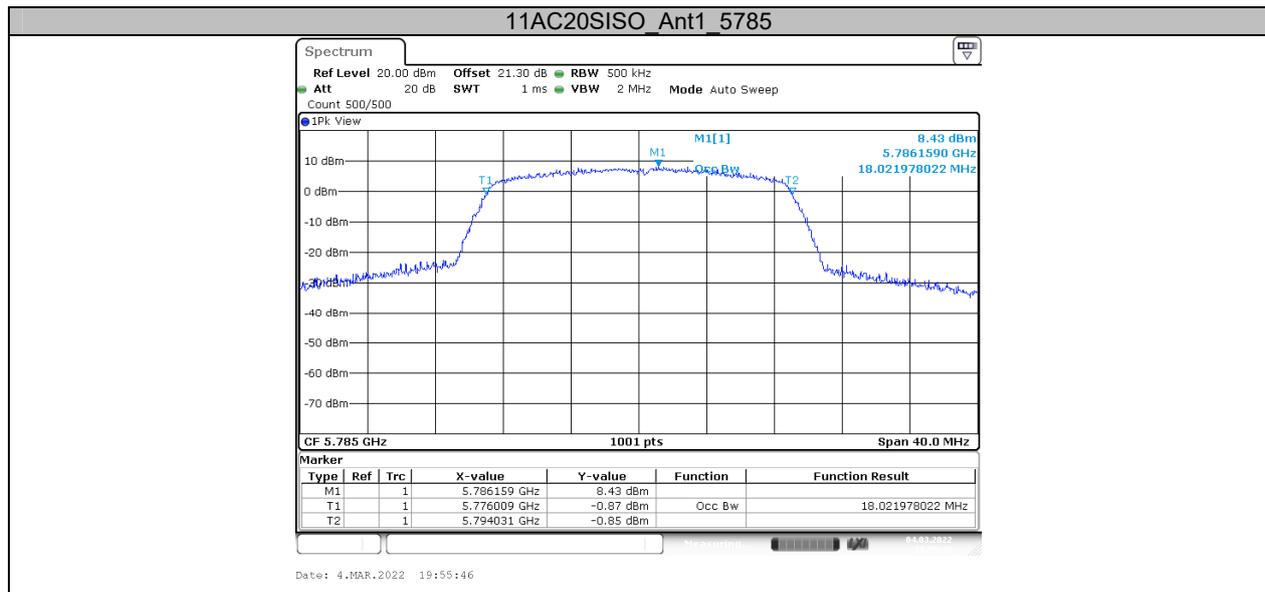


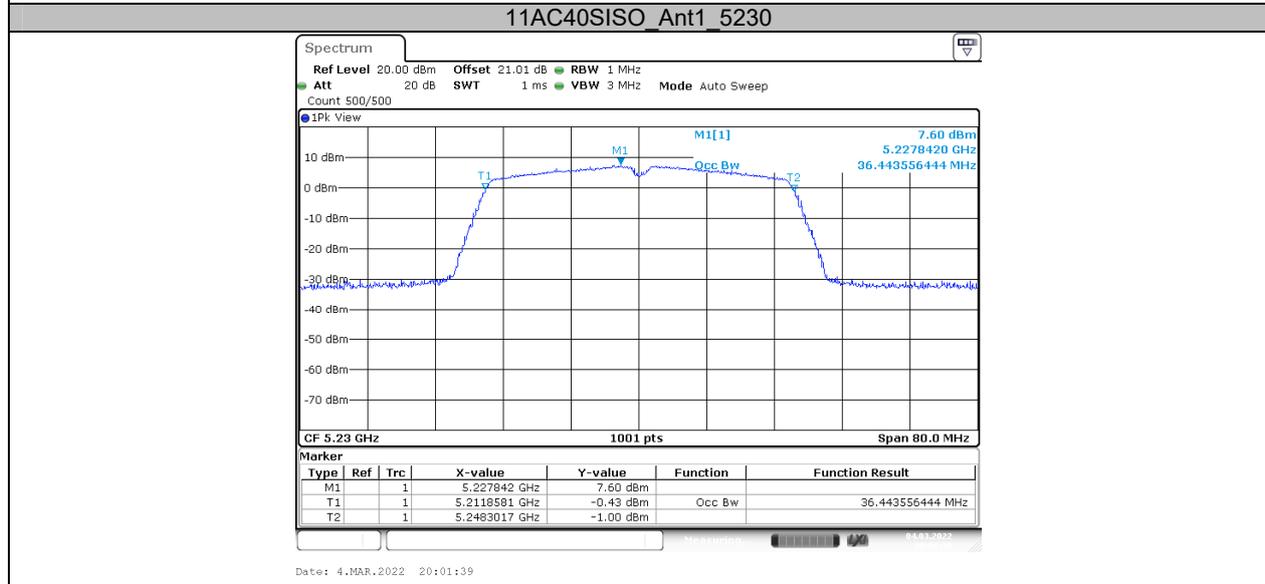


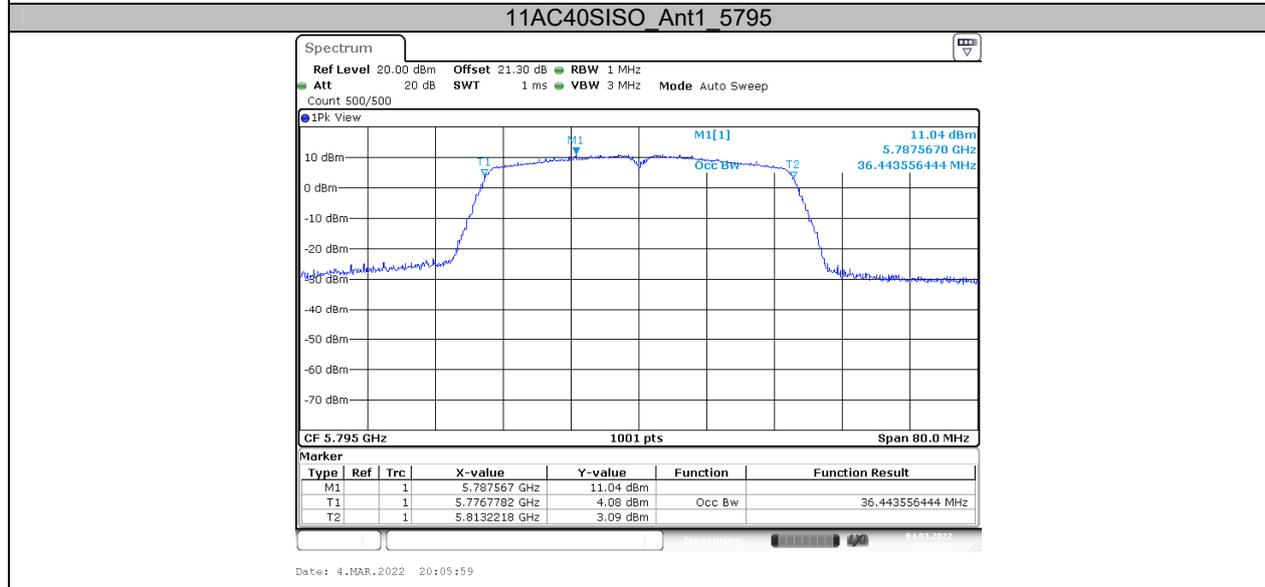


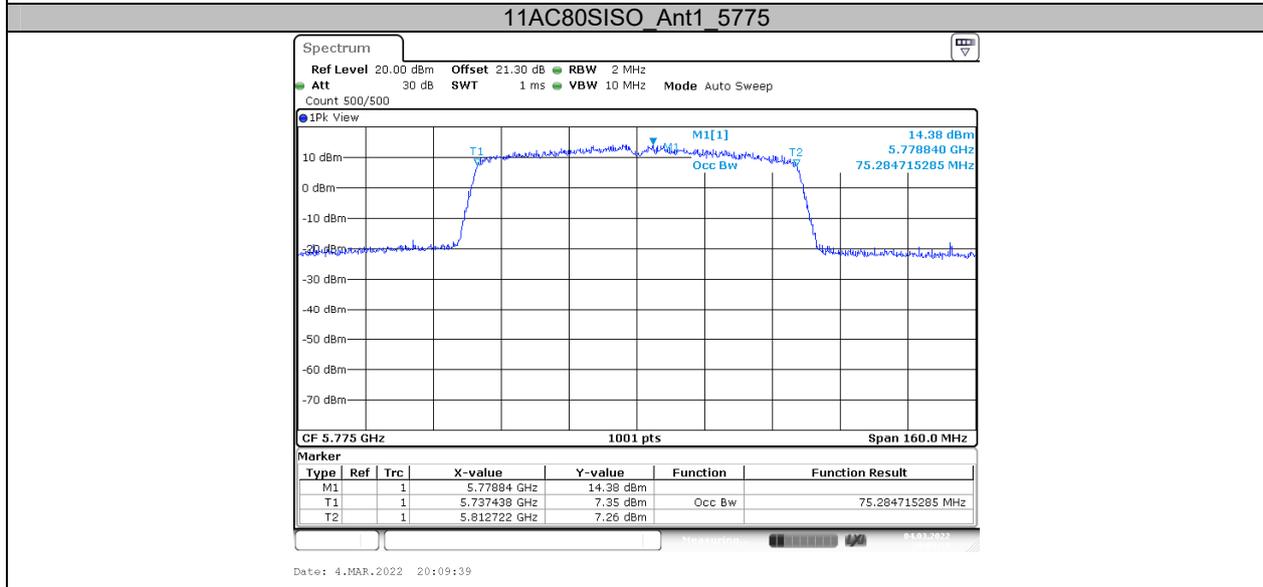








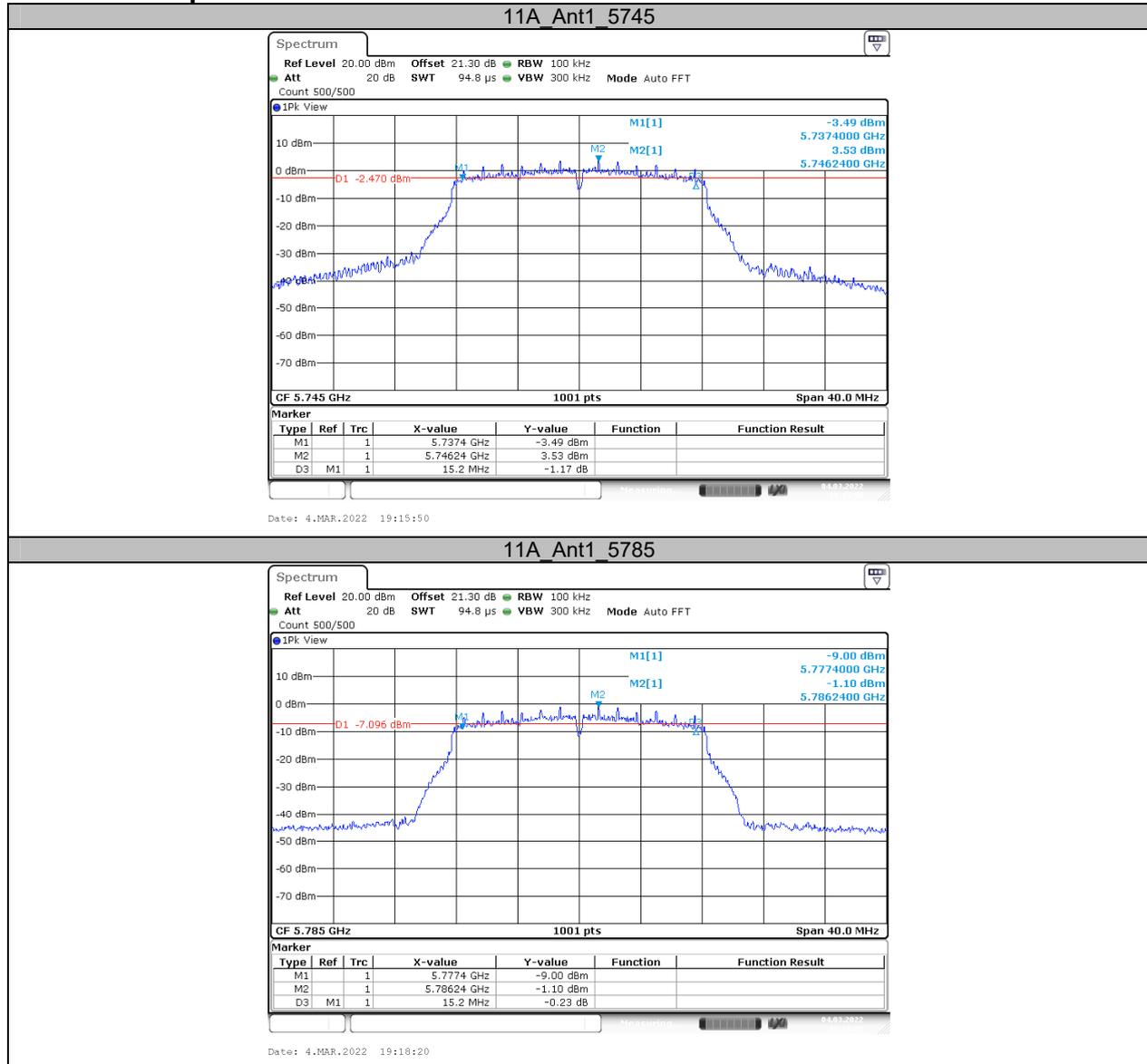


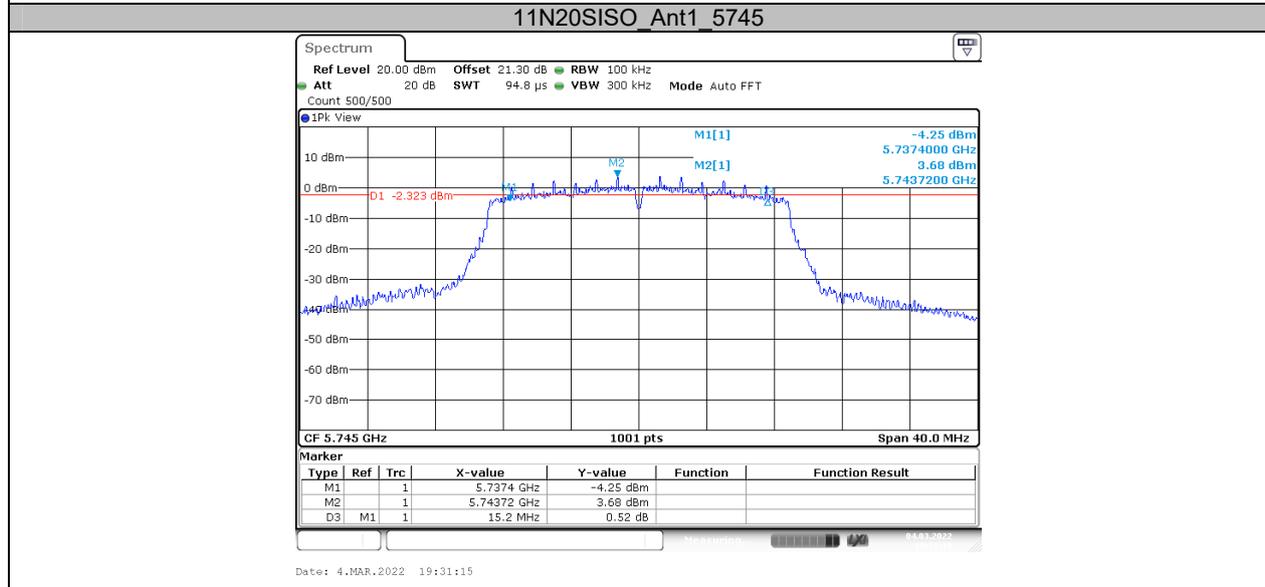
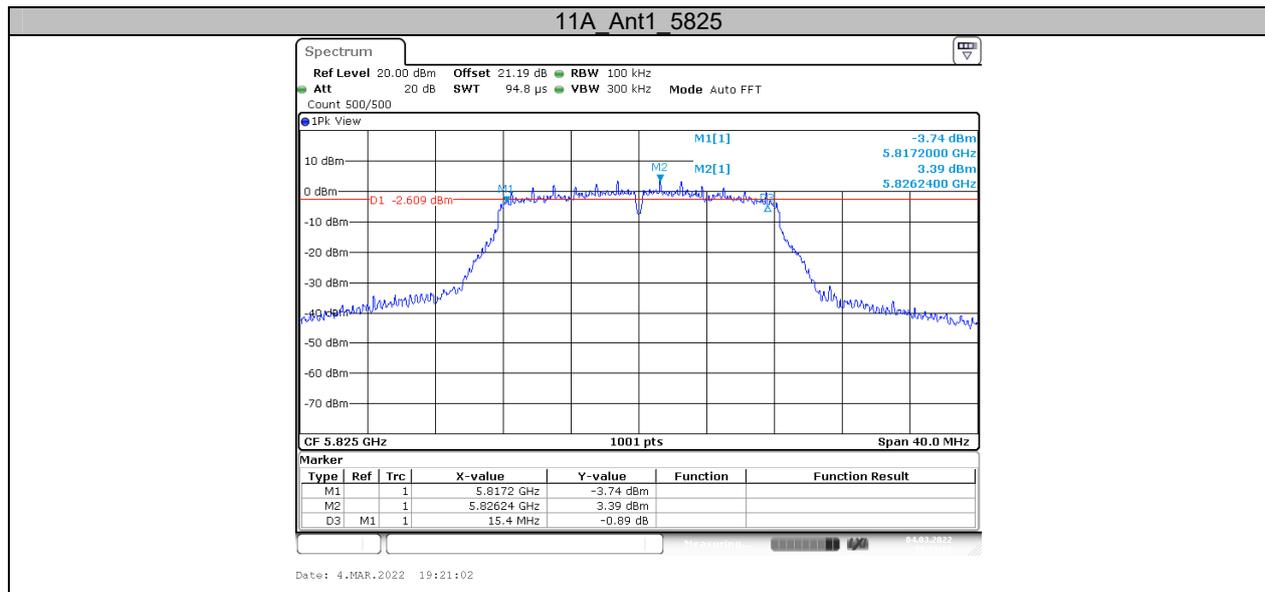


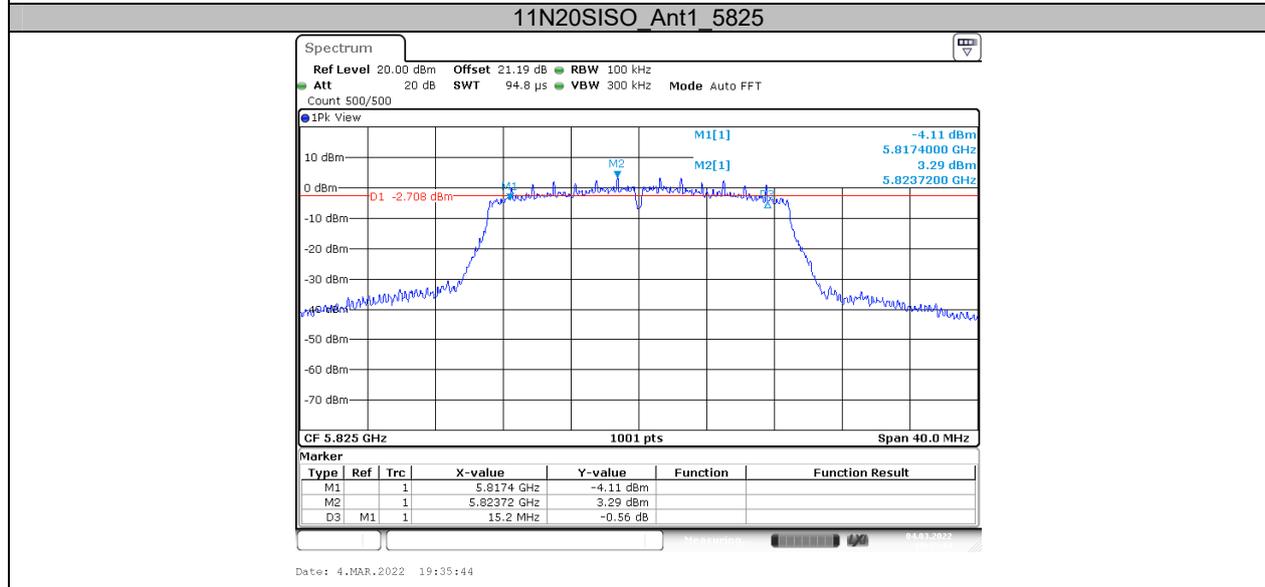
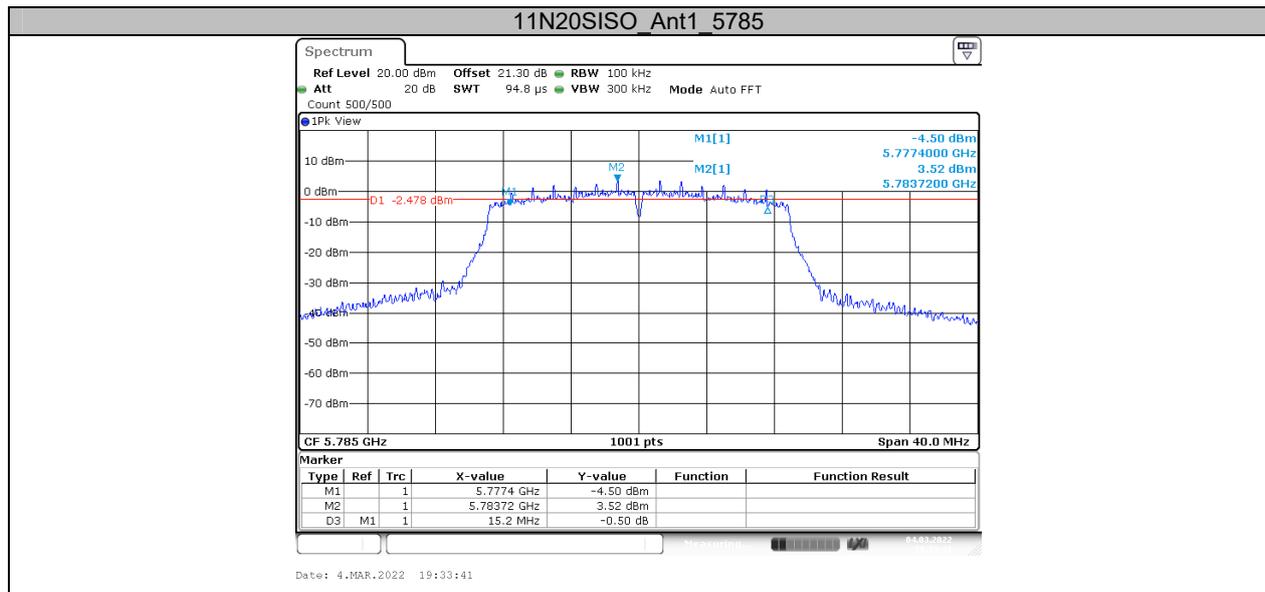
Appendix A3: Min emission bandwidth Test Result

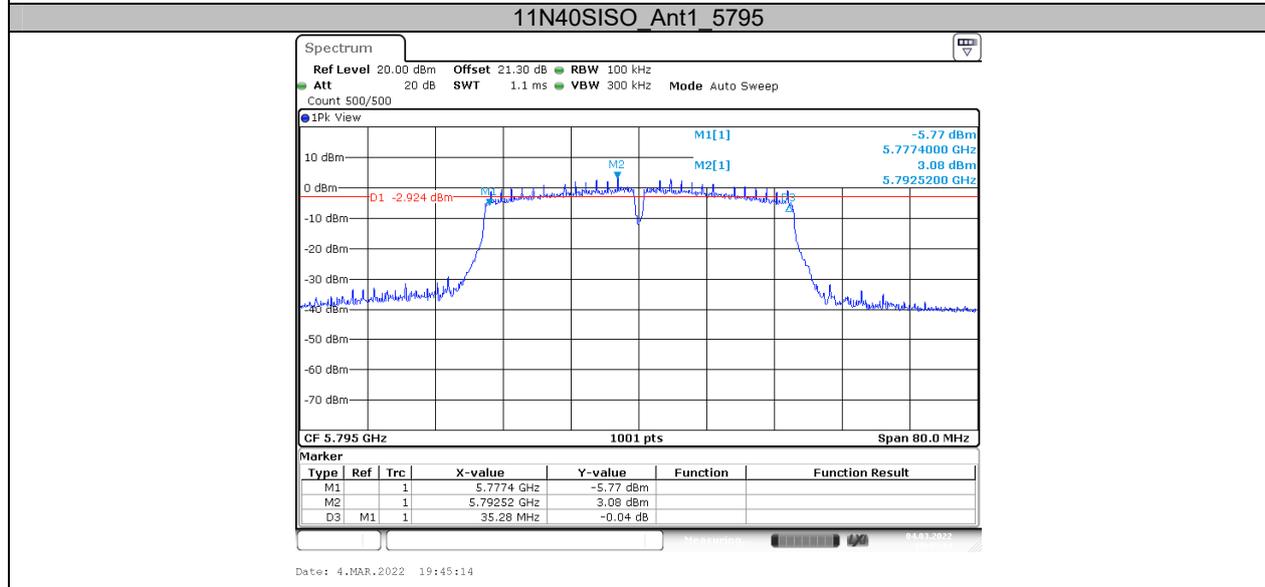
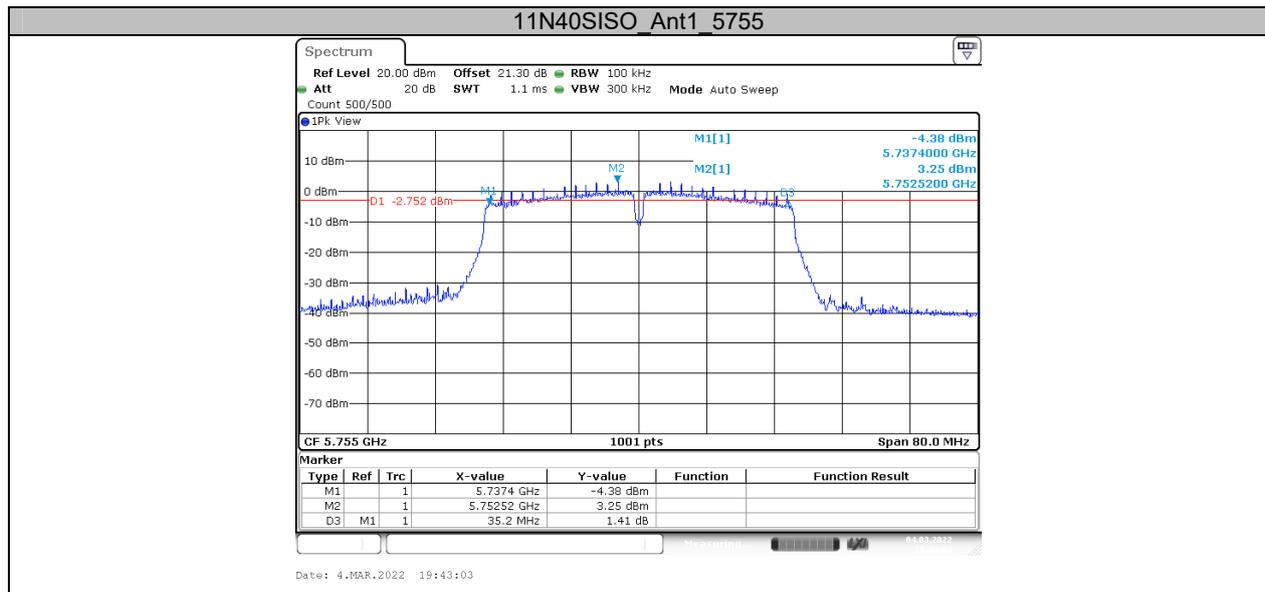
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.400	5817.200	5832.600	0.5	PASS
11N20SISO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11N40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.280	5777.400	5812.680	0.5	PASS
11AC20SISO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11AC40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.280	5777.400	5812.680	0.5	PASS
11AC80MIMO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

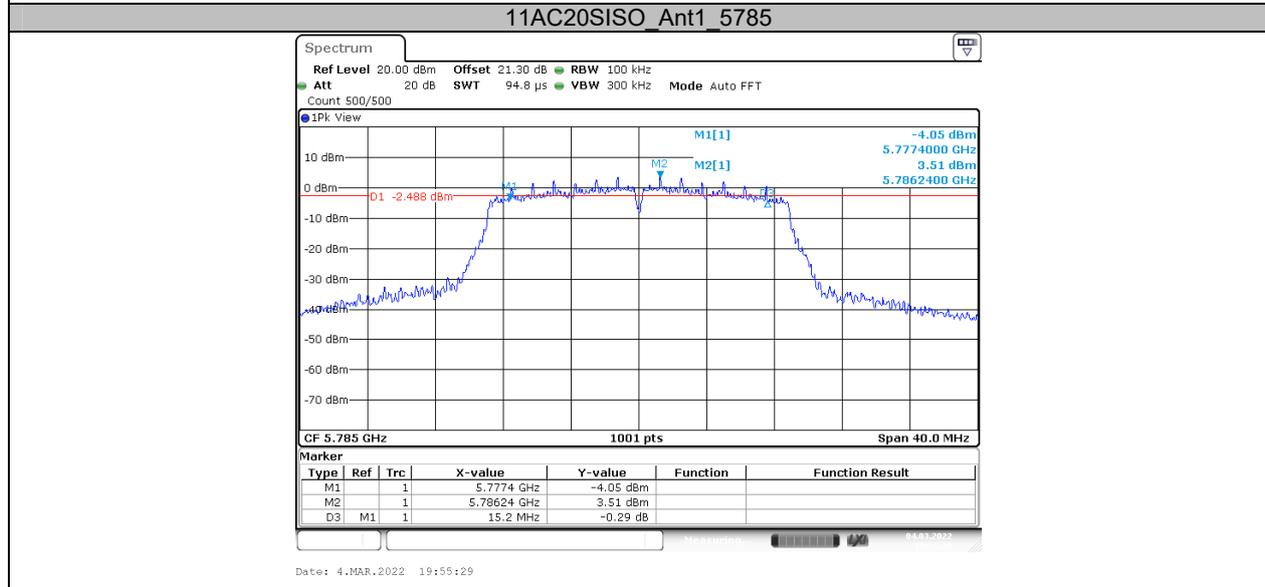
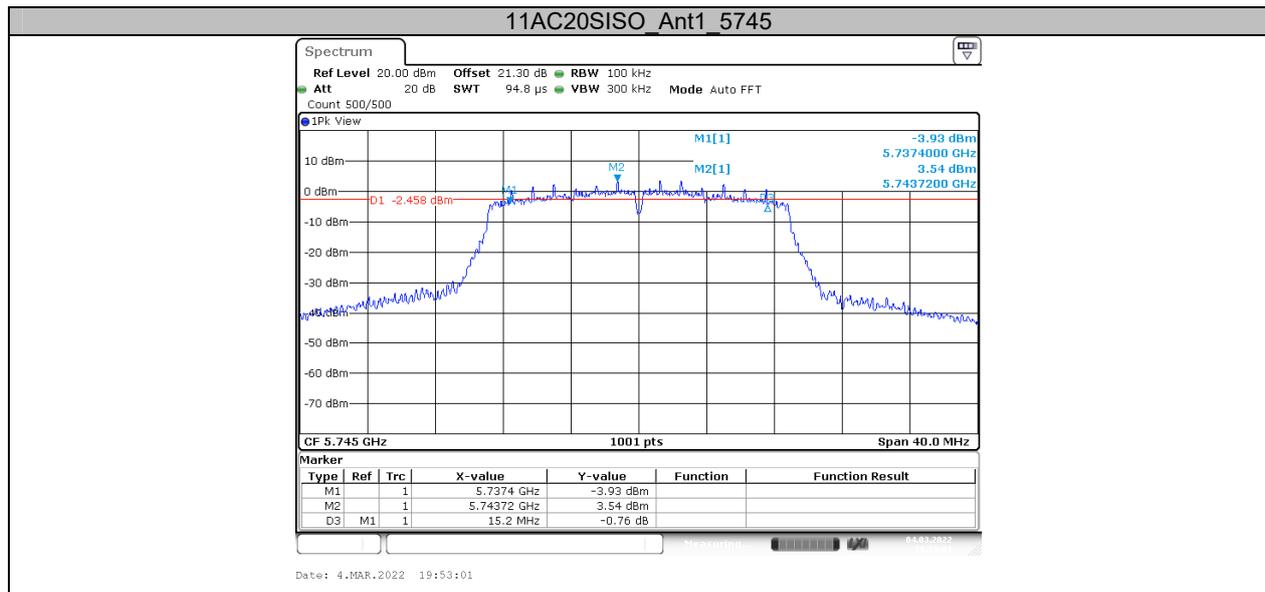
Test Graphs

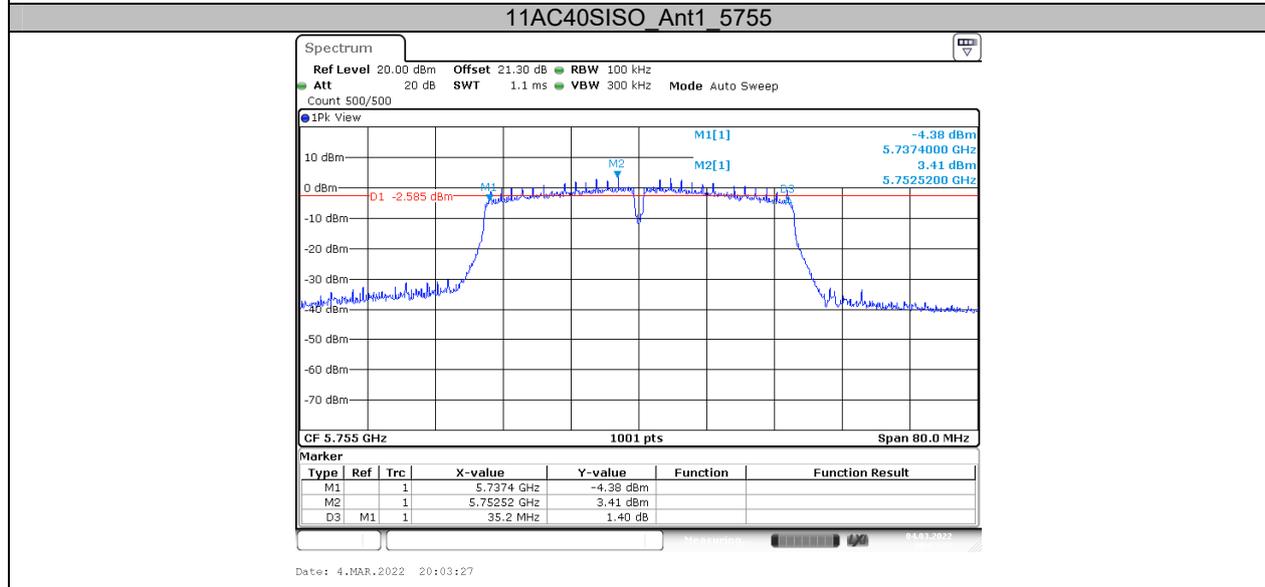
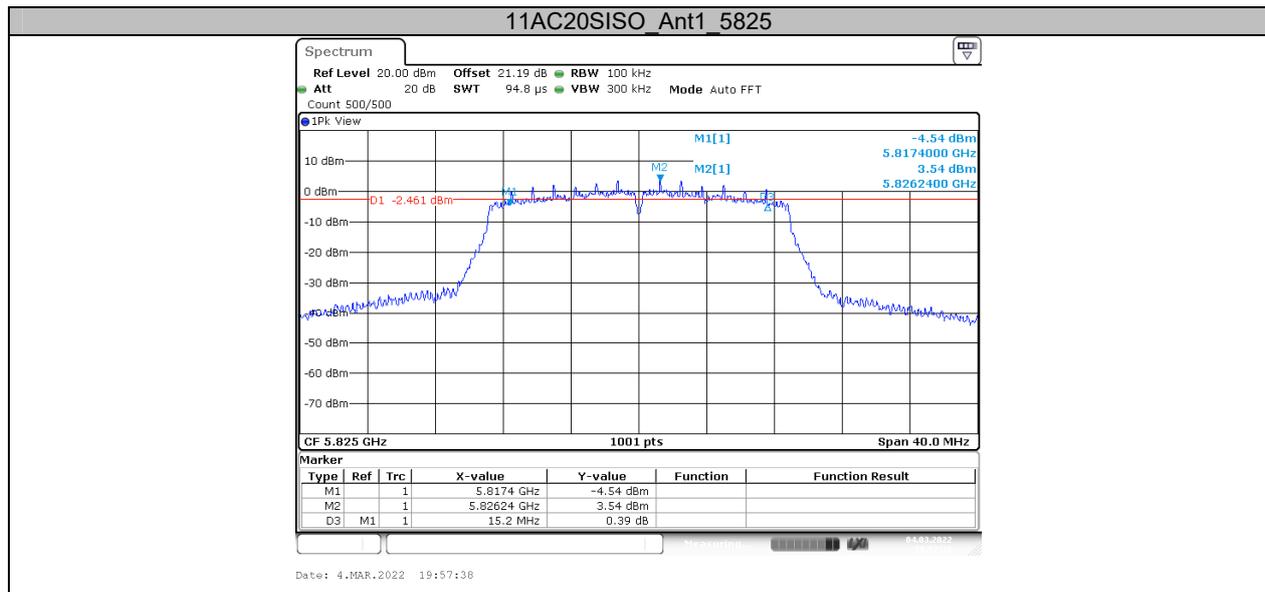


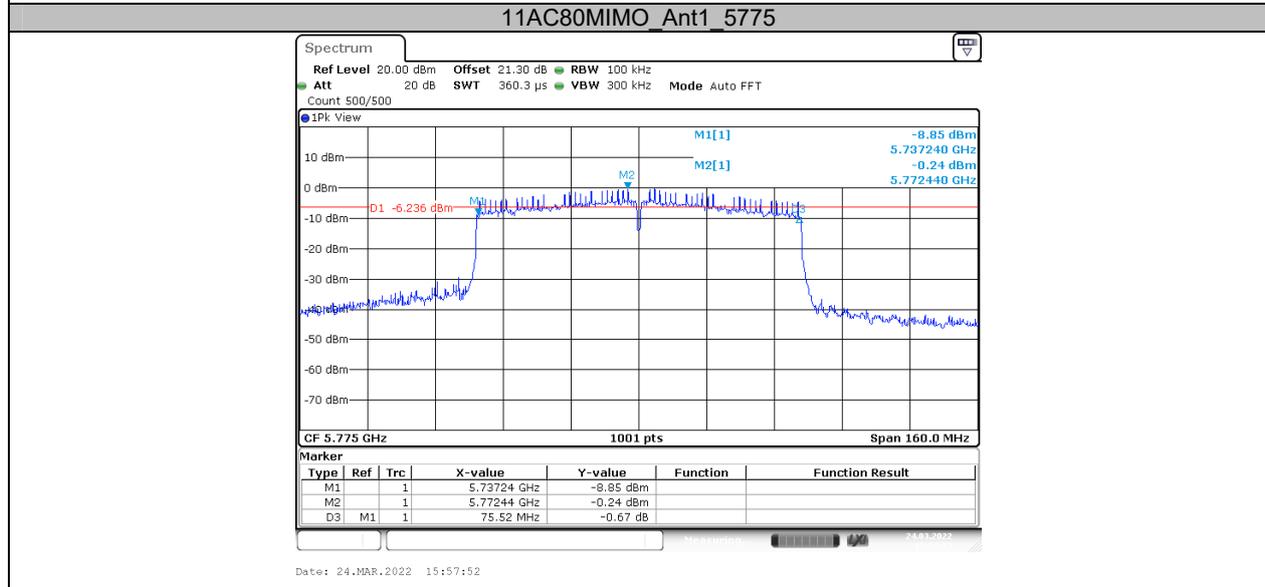












Appendix B: Maximum conducted output power Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.05	<=23.98	PASS
		5200	6.21	<=23.98	PASS
		5240	6.56	<=23.98	PASS
		5745	6.67	<=30	PASS
		5785	6.32	<=30	PASS
		5825	6.39	<=30	PASS
11N20SISO	Ant1	5180	6.43	<=23.98	PASS
		5200	5.87	<=23.98	PASS
		5240	6.10	<=23.98	PASS
		5745	6.38	<=30	PASS
		5785	6.11	<=30	PASS
		5825	6.11	<=30	PASS
11N40SISO	Ant1	5190	6.37	<=23.98	PASS
		5230	6.09	<=23.98	PASS
		5755	6.63	<=30	PASS
		5795	6.38	<=30	PASS
11AC20SISO	Ant1	5180	6.30	<=23.98	PASS
		5200	6.02	<=23.98	PASS
		5240	6.02	<=23.98	PASS
		5745	6.23	<=30	PASS
		5785	6.19	<=30	PASS
		5825	6.21	<=30	PASS
11AC40SISO	Ant1	5190	5.76	<=23.98	PASS
		5230	6.05	<=23.98	PASS
		5755	6.73	<=30	PASS
		5795	6.56	<=30	PASS
11AC80SISO	Ant1	5210	5.09	<=23.98	PASS
		5775	6.73	<=30	PASS

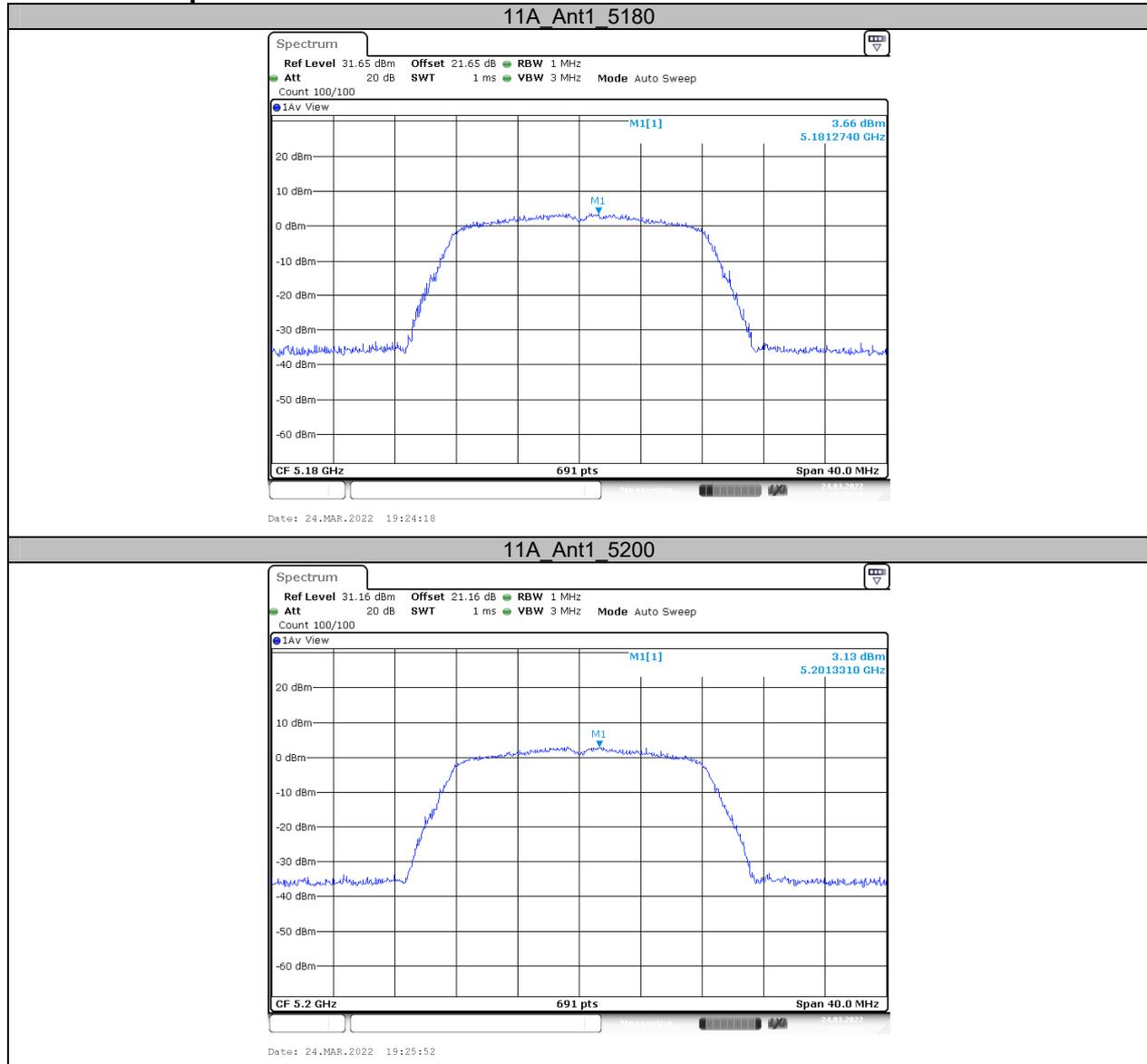
Note: The Duty Cycle Factor is compensated in the graph.

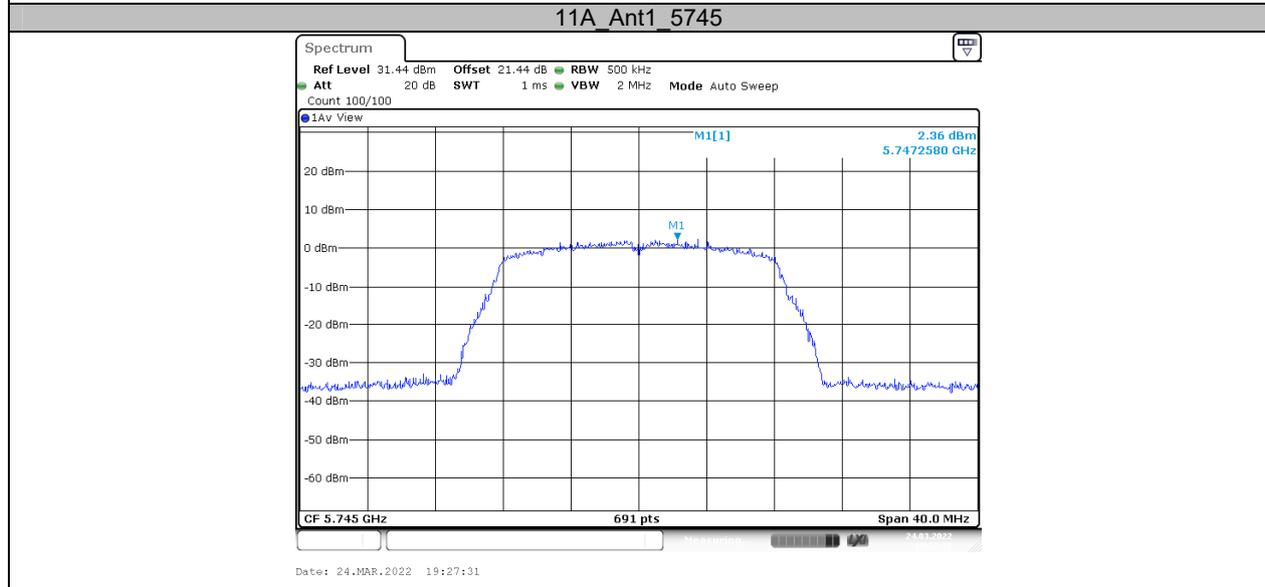
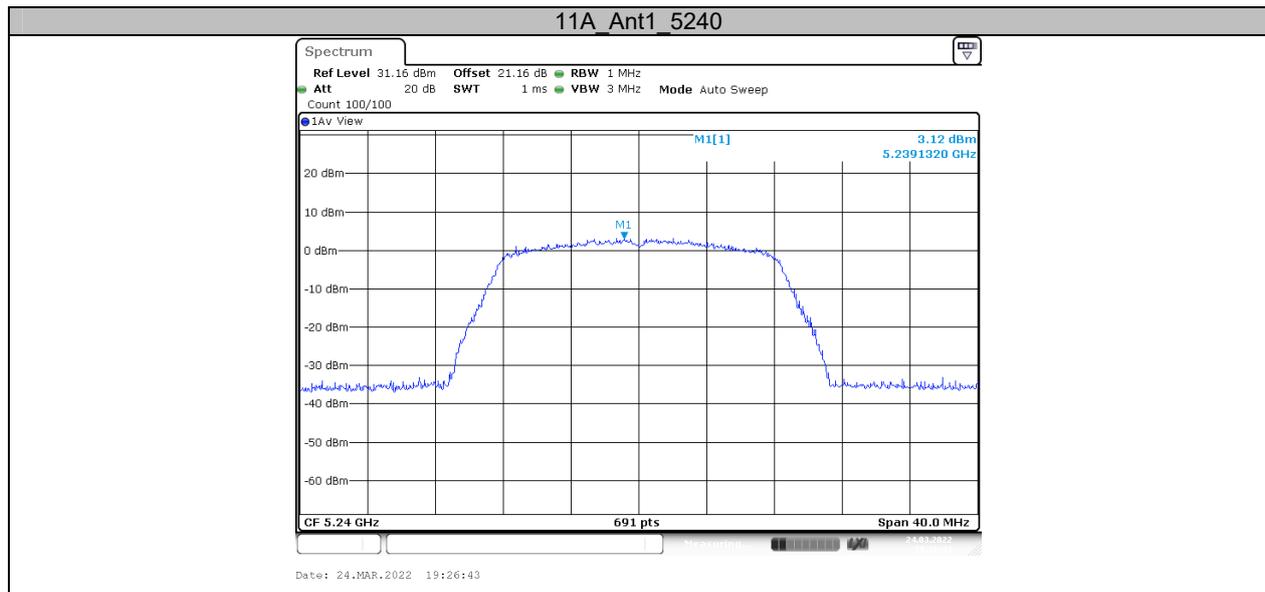
Appendix C: Maximum power spectral density Test Result

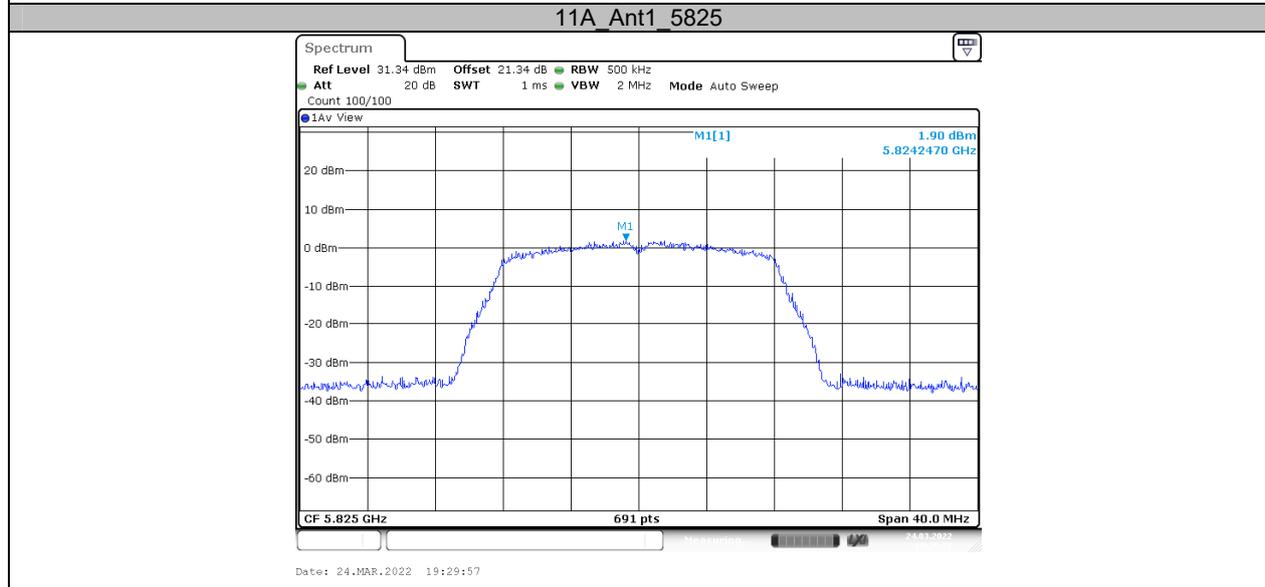
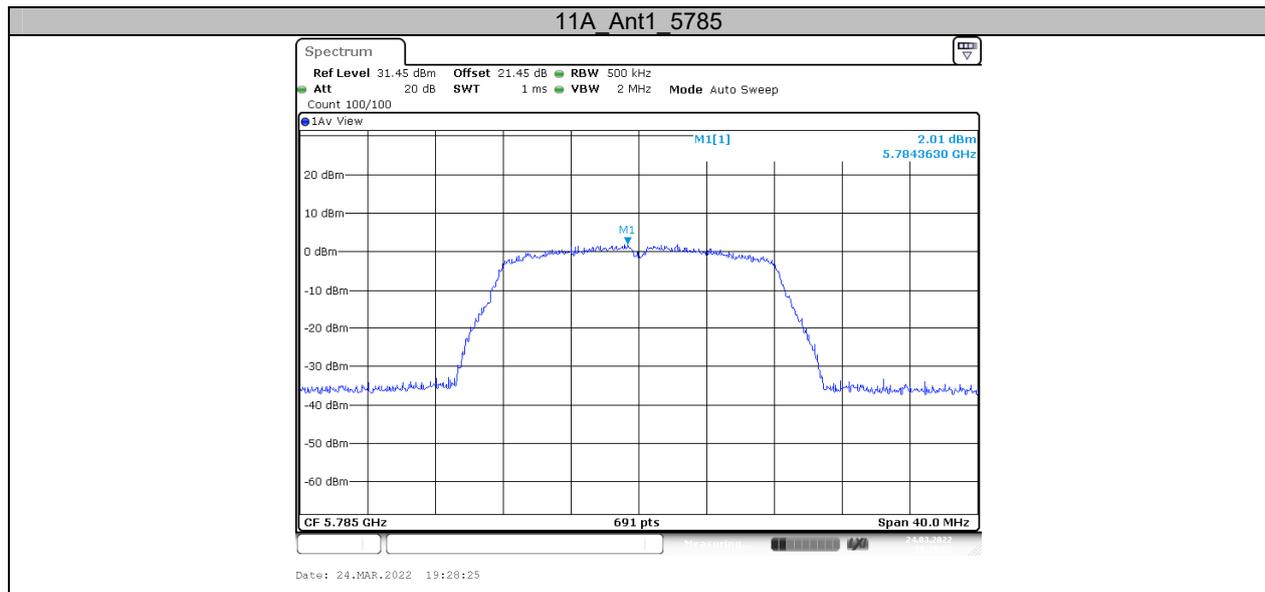
Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.66	<=11	PASS
		5200	3.13	<=11	PASS
		5240	3.12	<=11	PASS
		5745	2.36	<=30	PASS
		5785	2.01	<=30	PASS
		5825	1.9	<=30	PASS
11N20SISO	Ant1	5180	2.93	<=11	PASS
		5200	3.35	<=11	PASS
		5240	3.02	<=11	PASS
		5745	1.98	<=30	PASS
		5785	1.84	<=30	PASS
		5825	2.04	<=30	PASS
11N40SISO	Ant1	5190	1.00	<=11	PASS
		5230	0.81	<=11	PASS
		5755	0.58	<=30	PASS
		5795	0.53	<=30	PASS
11AC20SISO	Ant1	5180	2.82	<=11	PASS
		5200	2.46	<=11	PASS
		5240	2.81	<=11	PASS
		5745	1.99	<=30	PASS
		5785	2.48	<=30	PASS
		5825	1.58	<=30	PASS
11AC40SISO	Ant1	5190	0.33	<=11	PASS
		5230	0.88	<=11	PASS
		5755	0.99	<=30	PASS
		5795	0.57	<=30	PASS
11AC80SISO	Ant1	5210	-1.02	<=11	PASS
		5775	-1.63	<=30	PASS

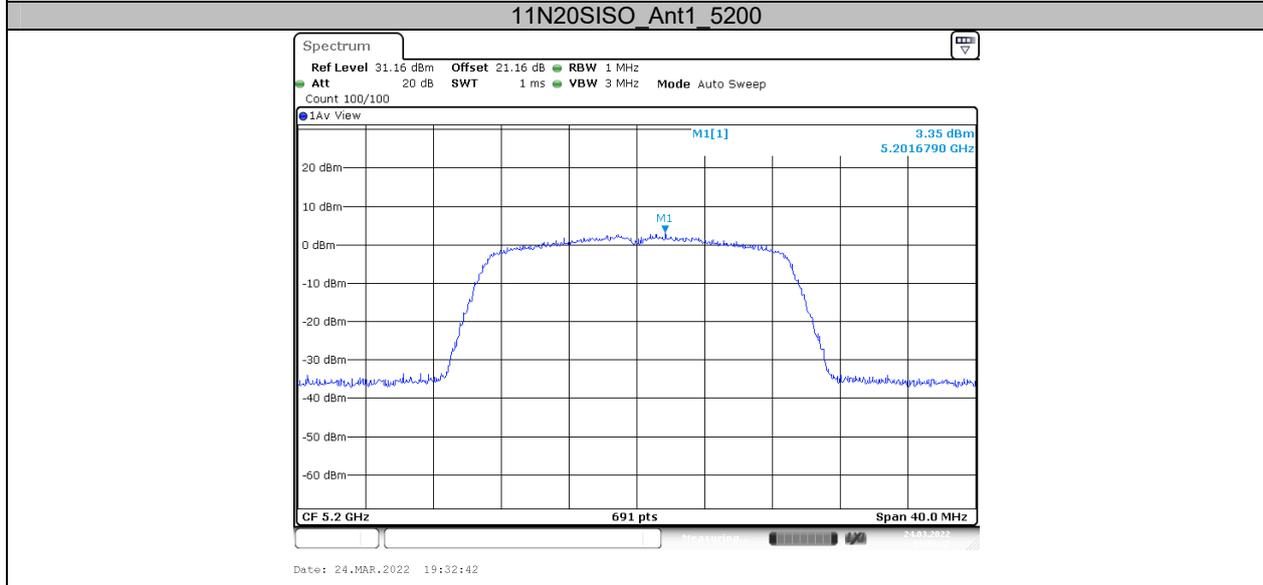
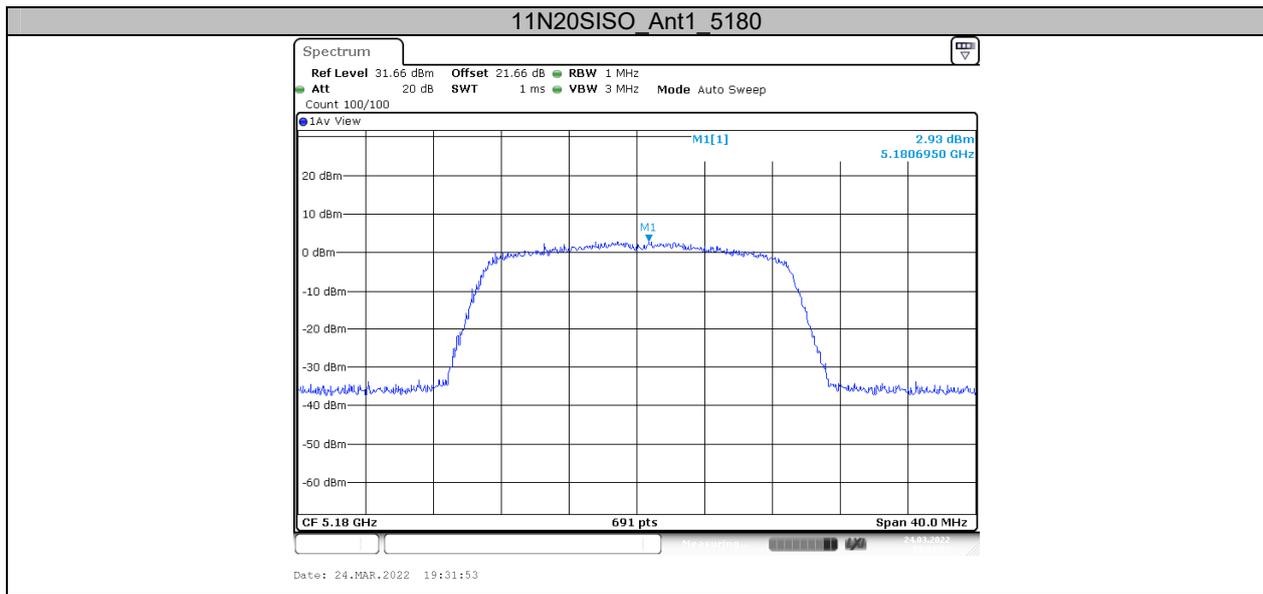
Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor is compensated in the graph.

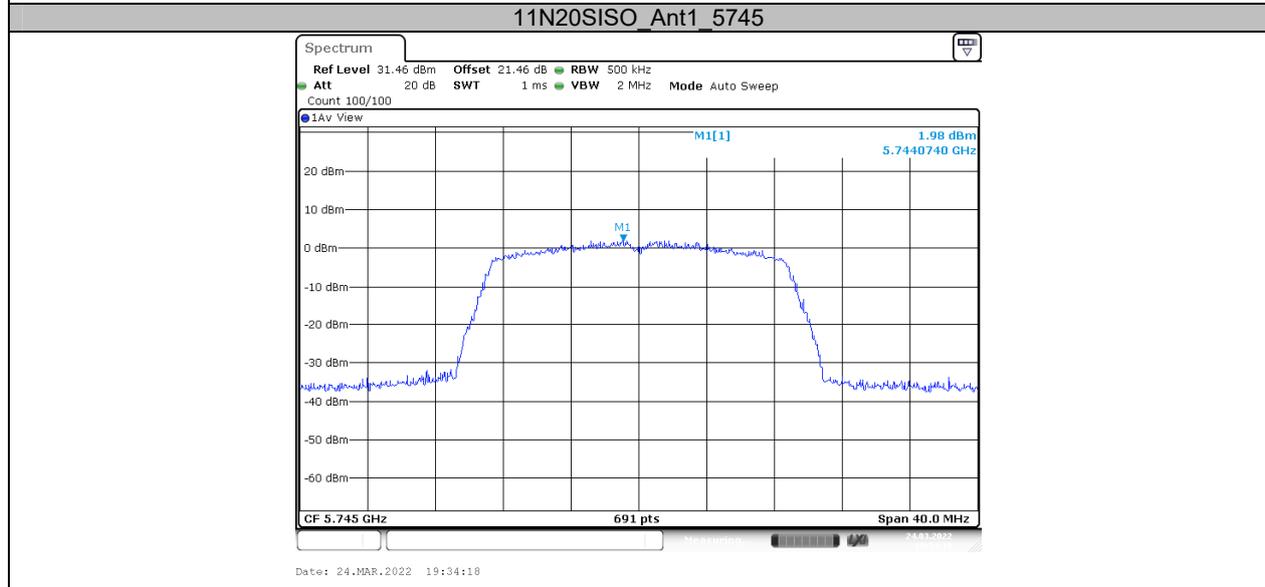
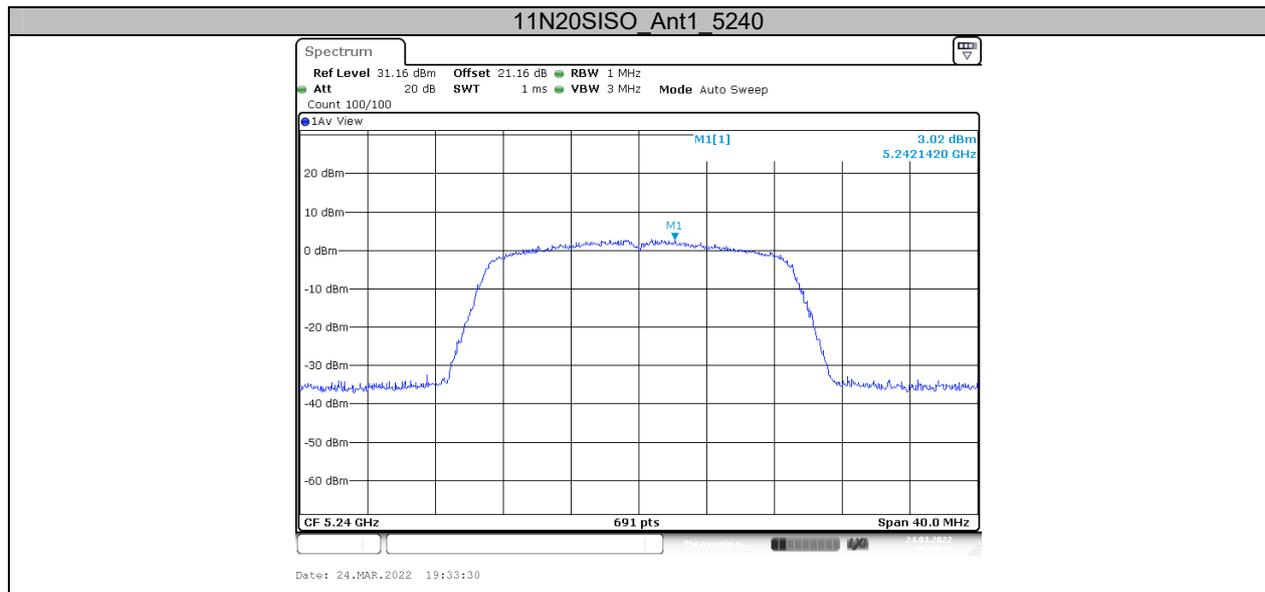
Test Graphs

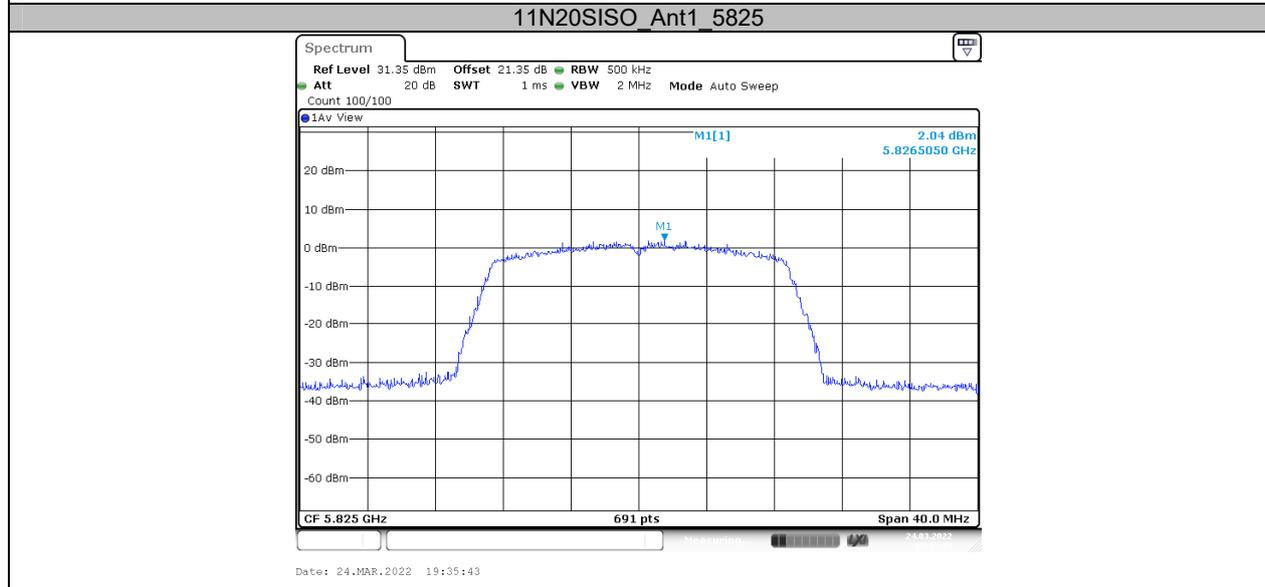
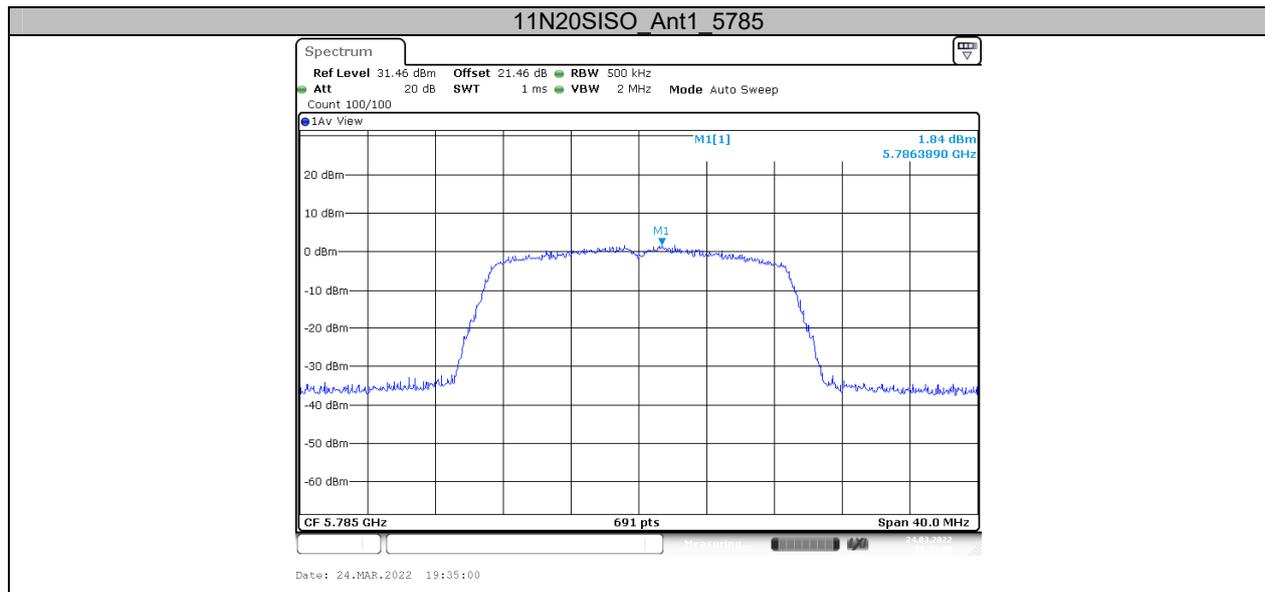


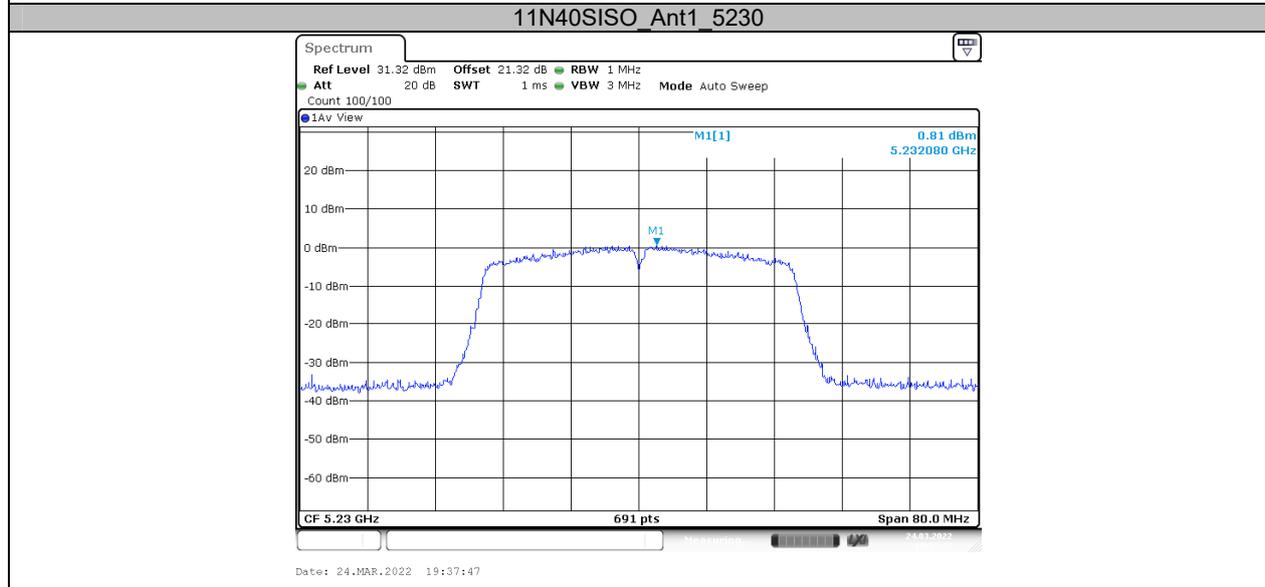
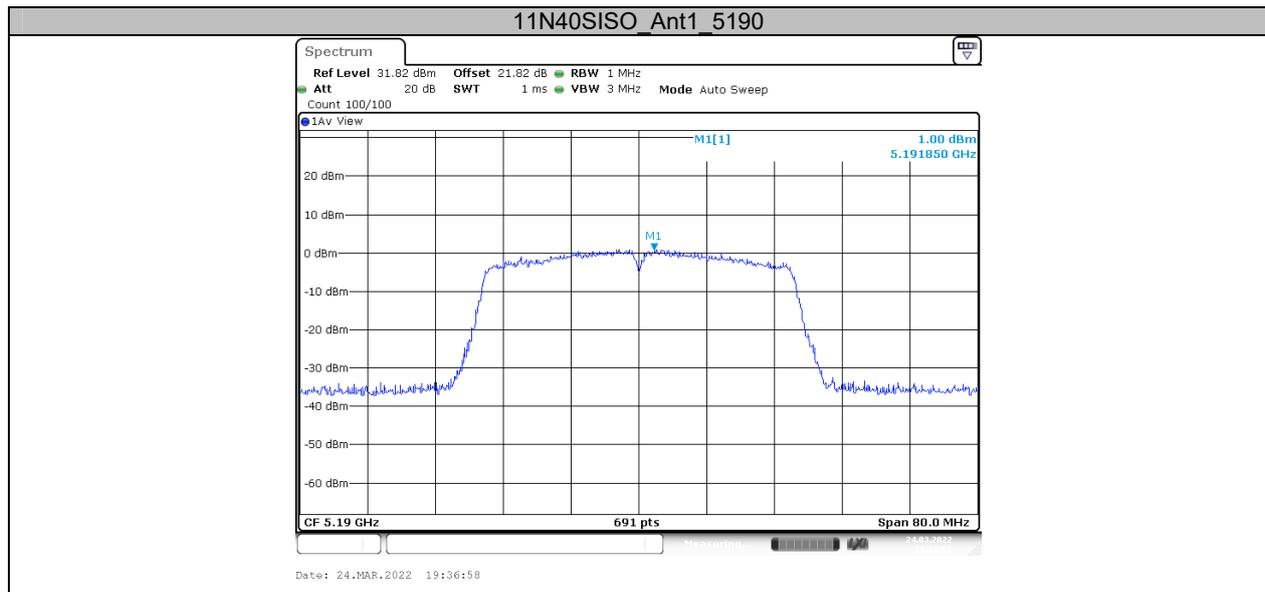


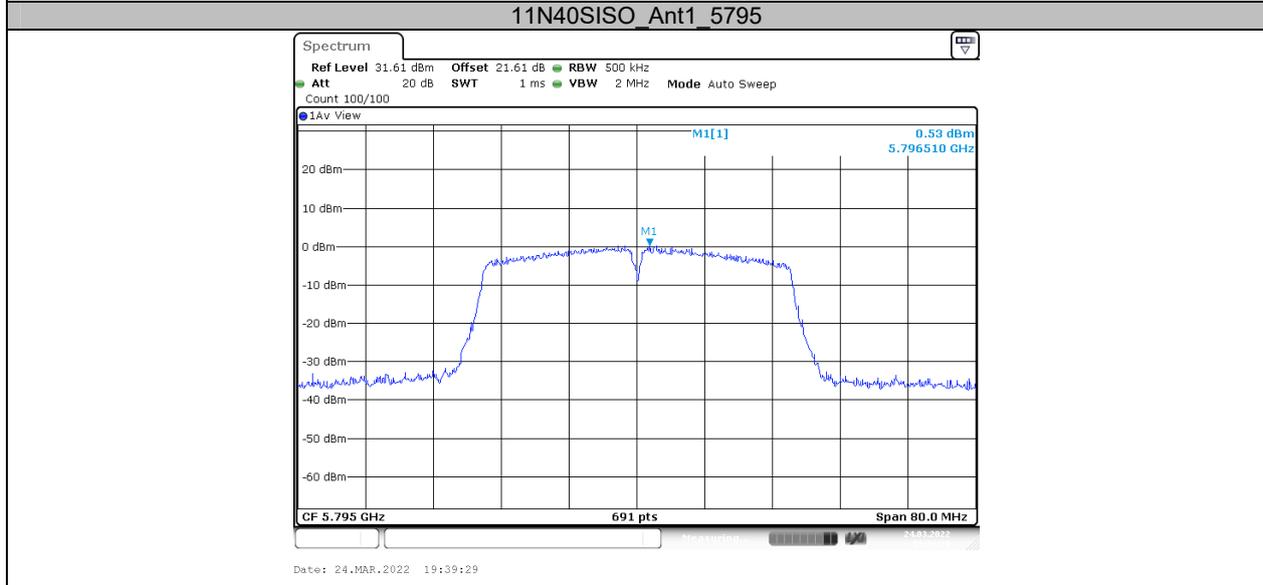
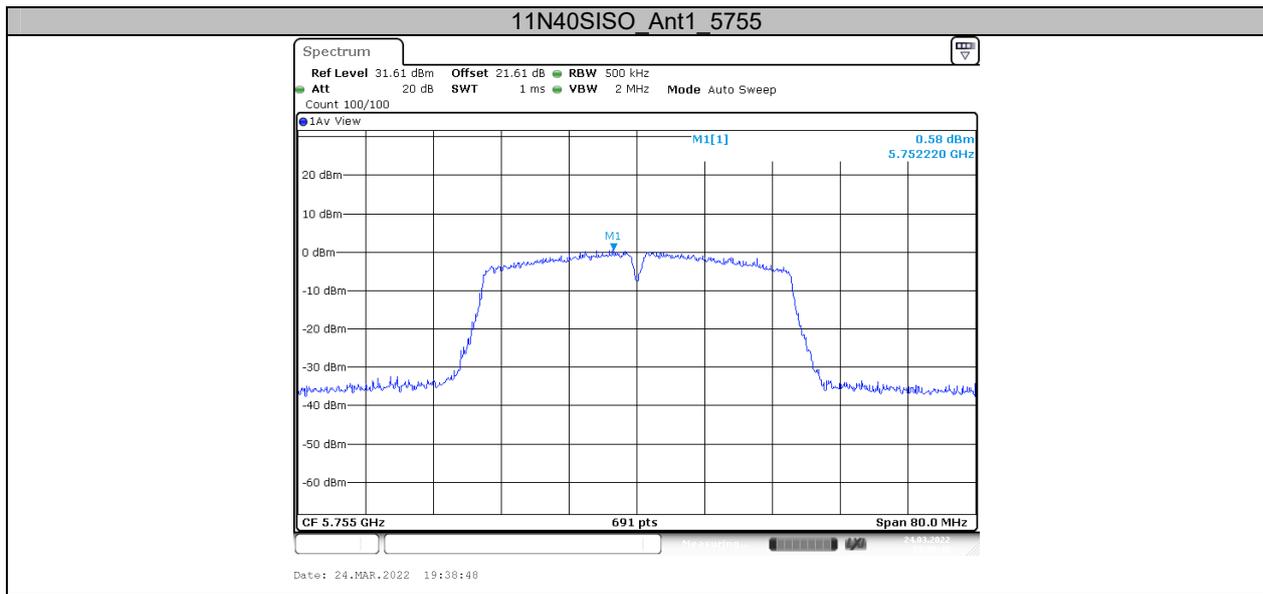


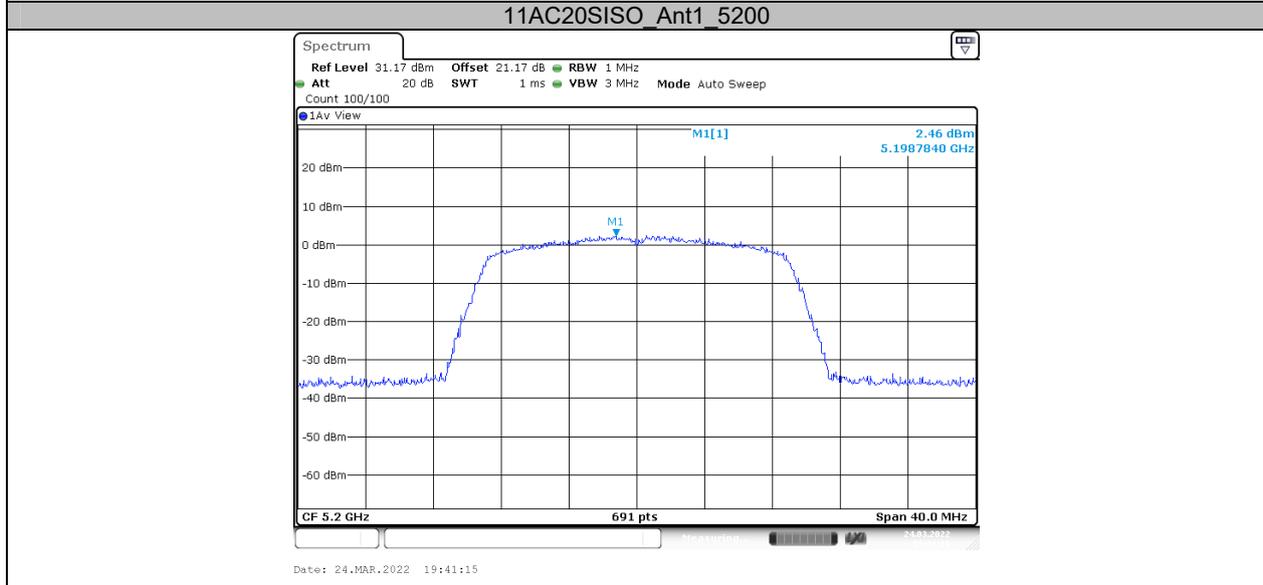
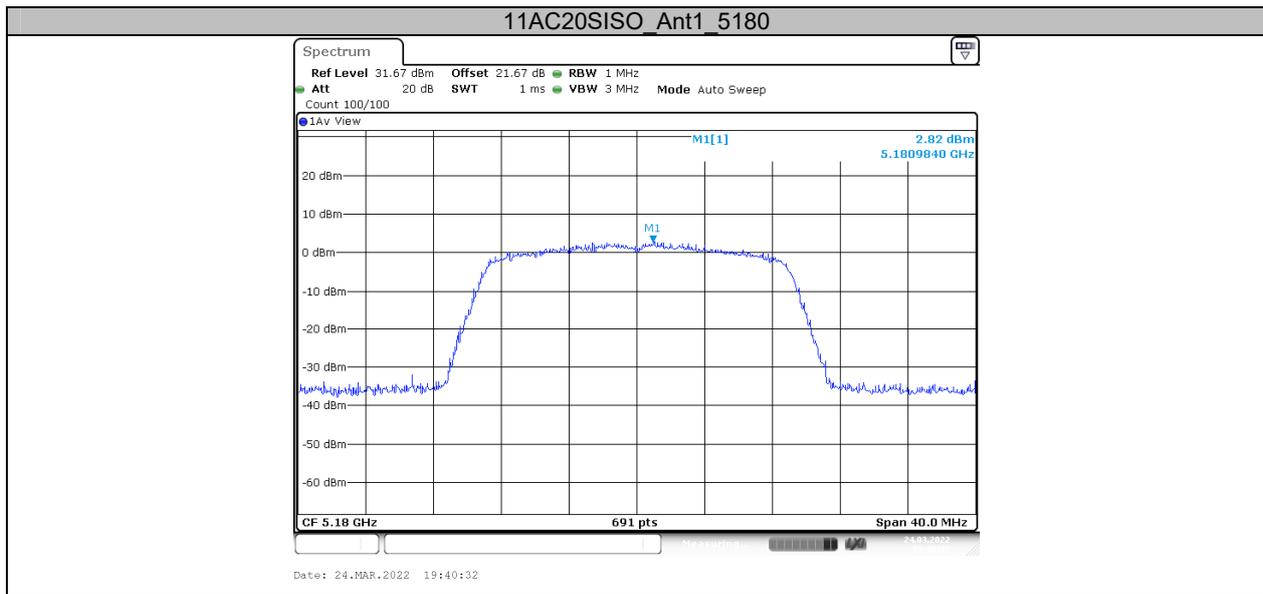


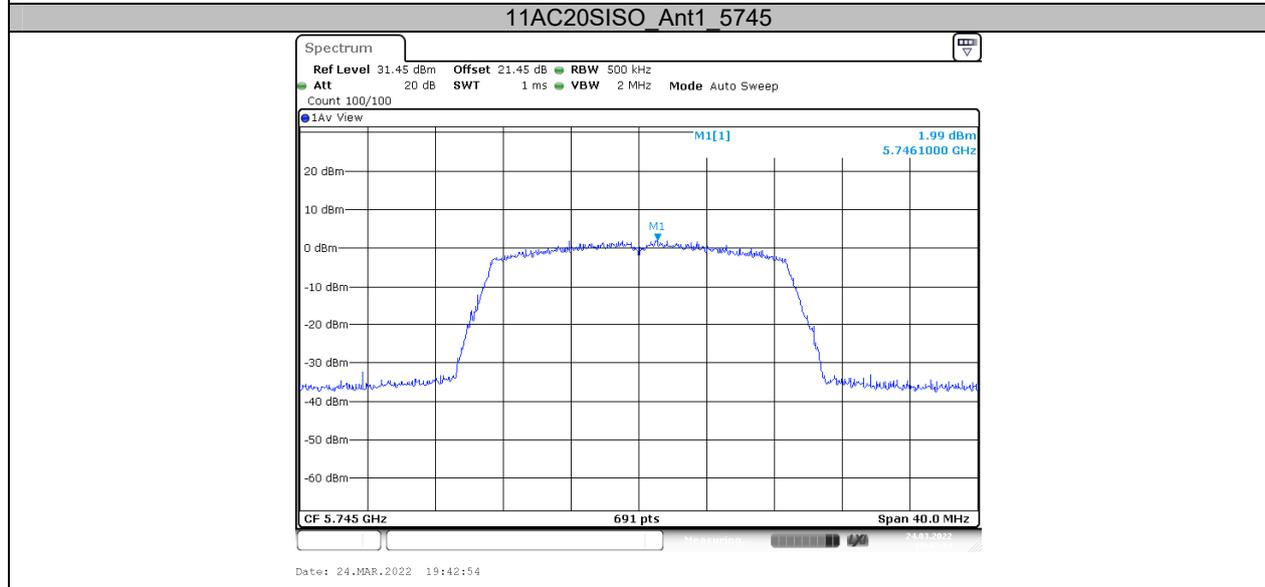
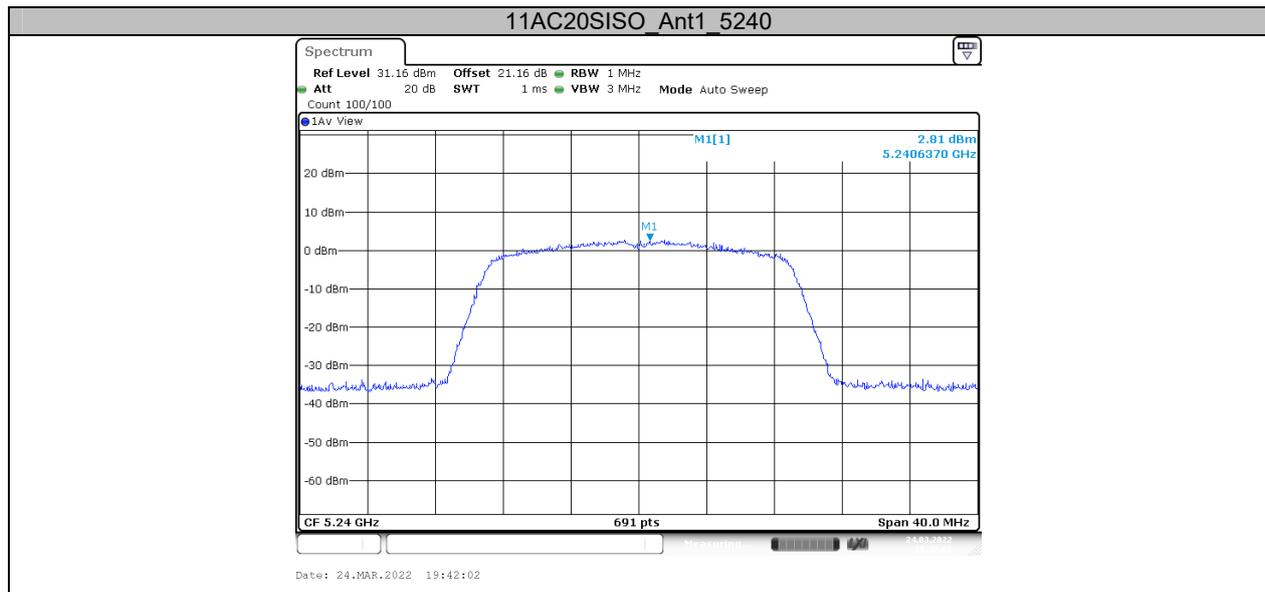


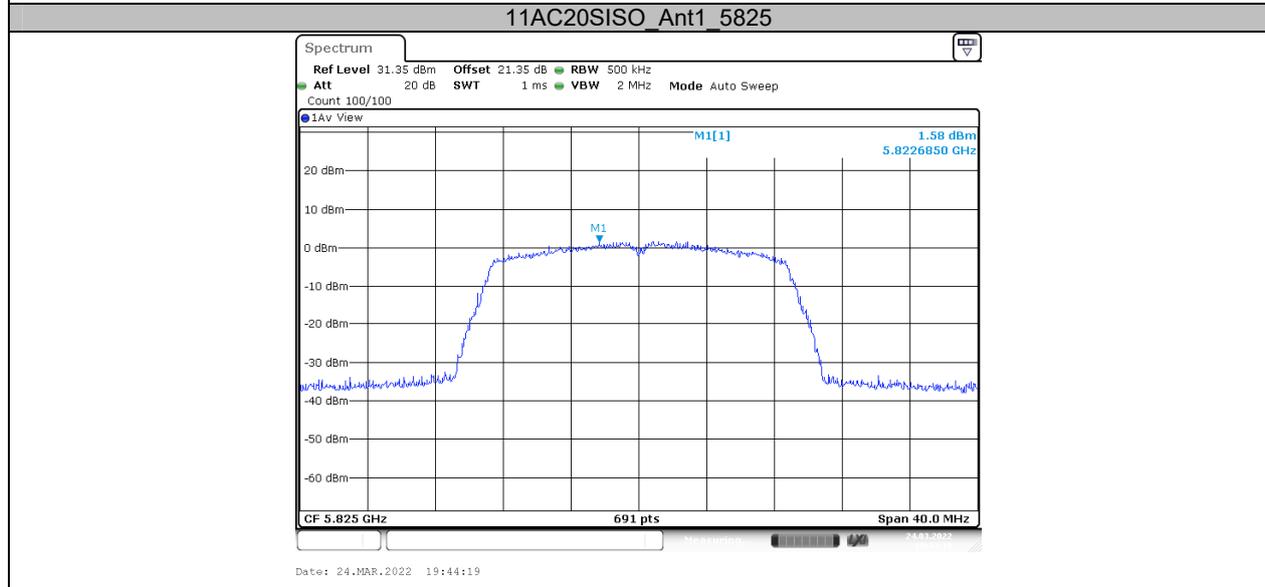
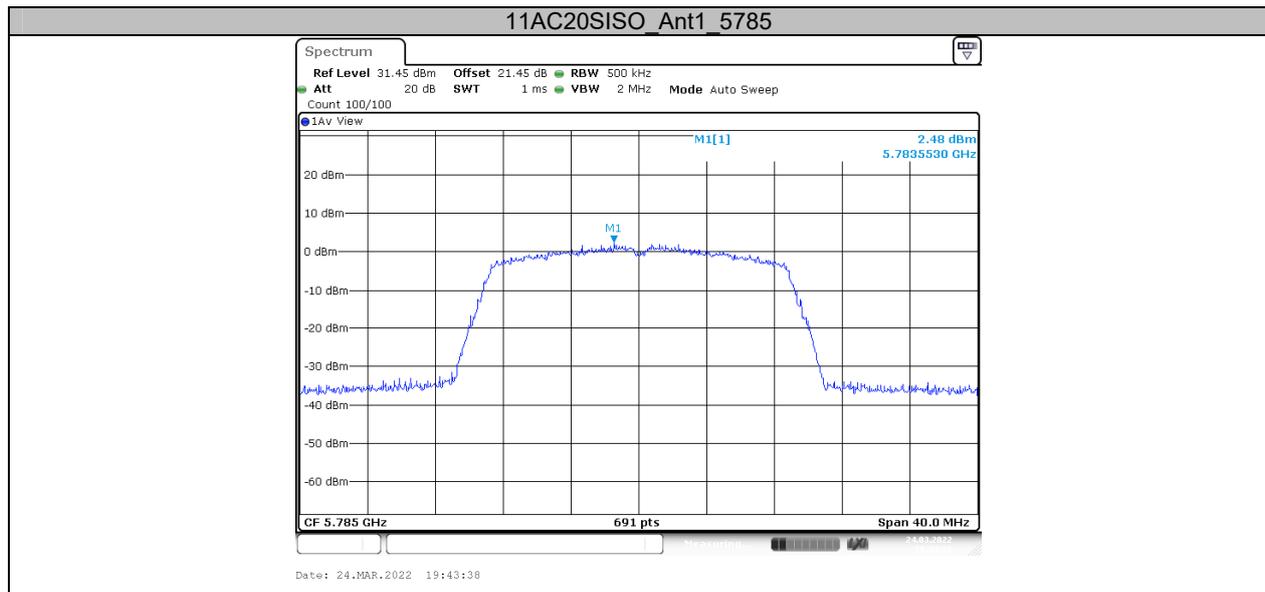


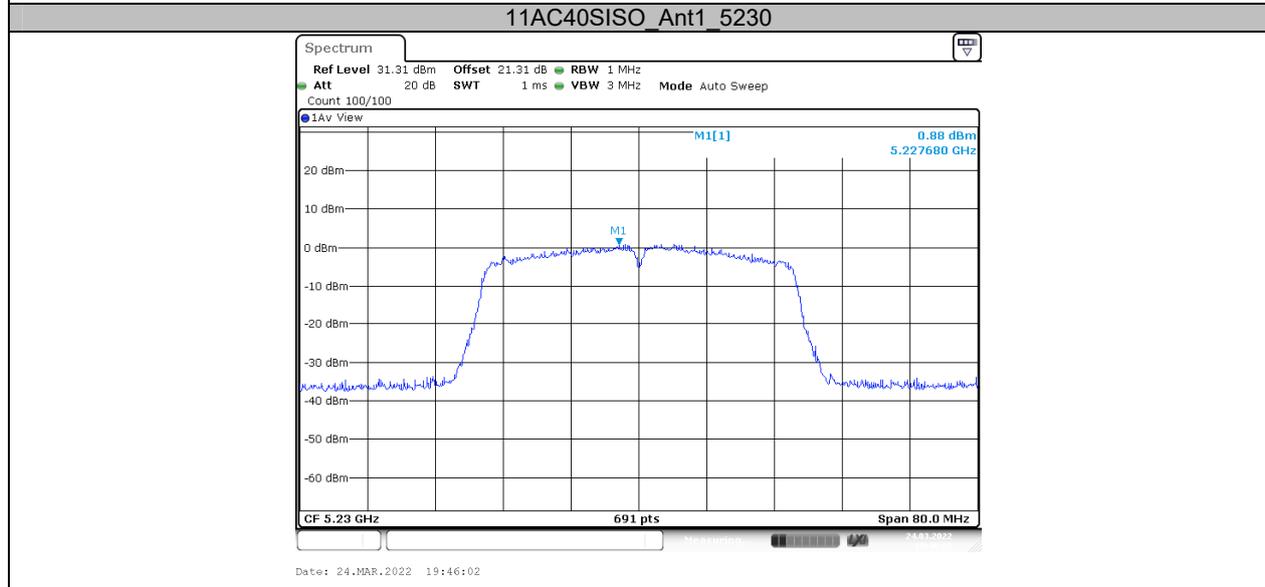
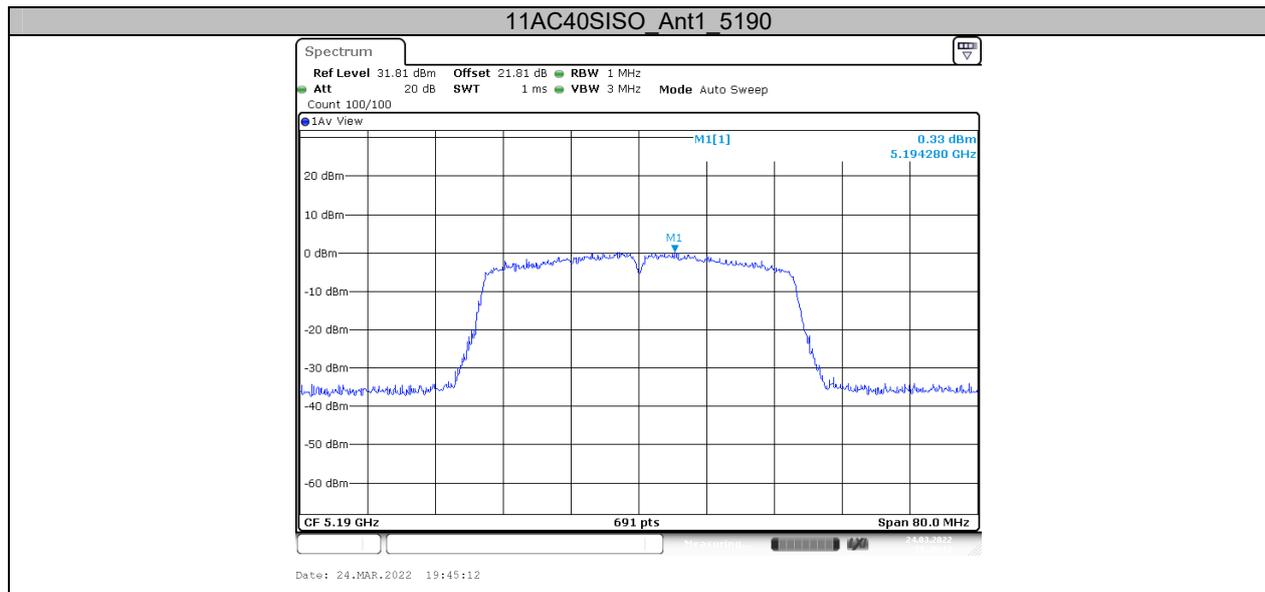


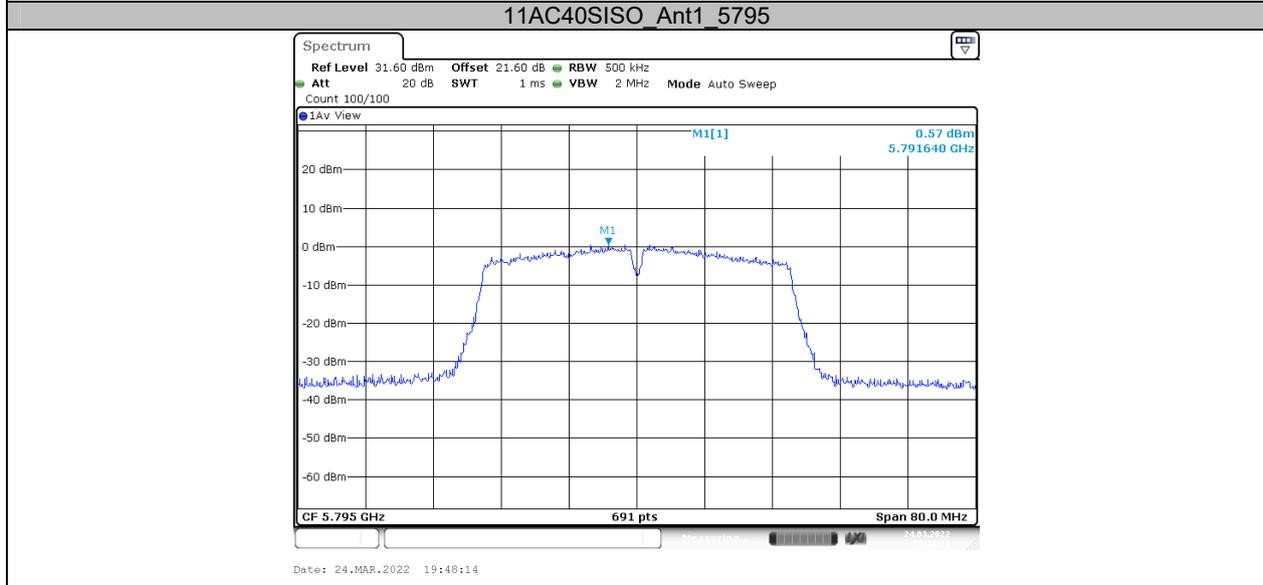
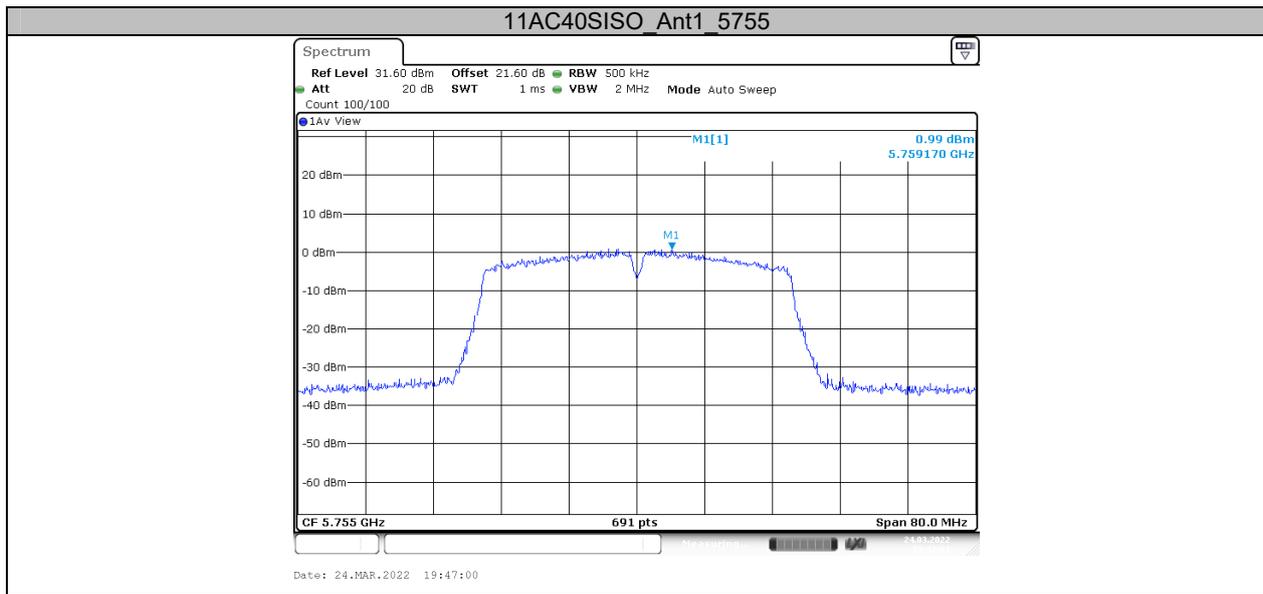


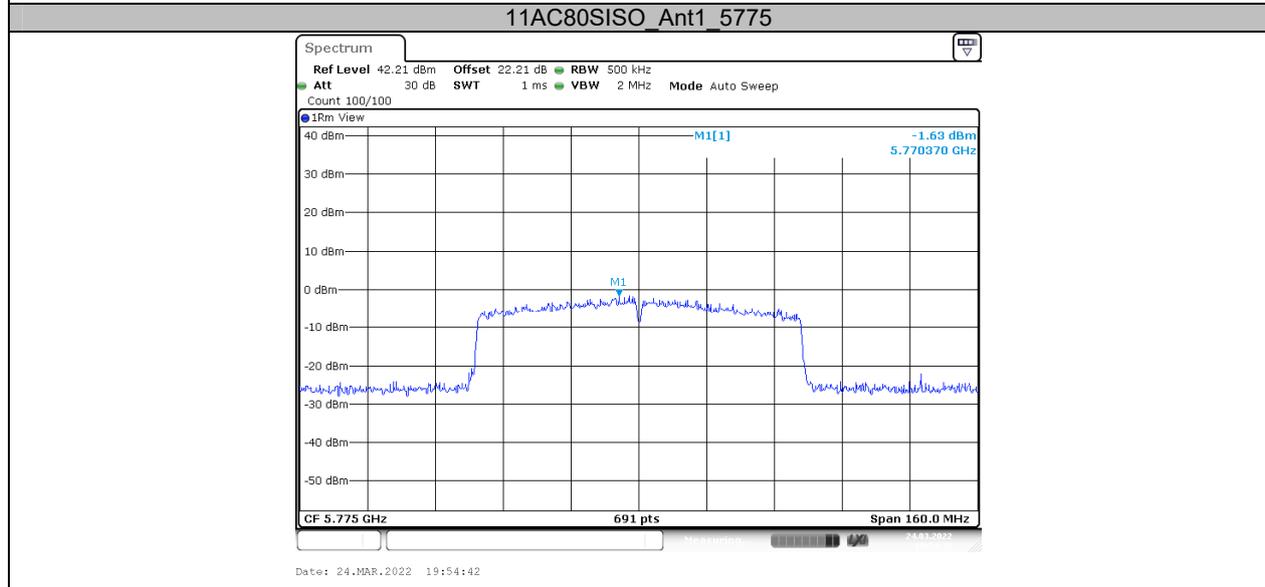
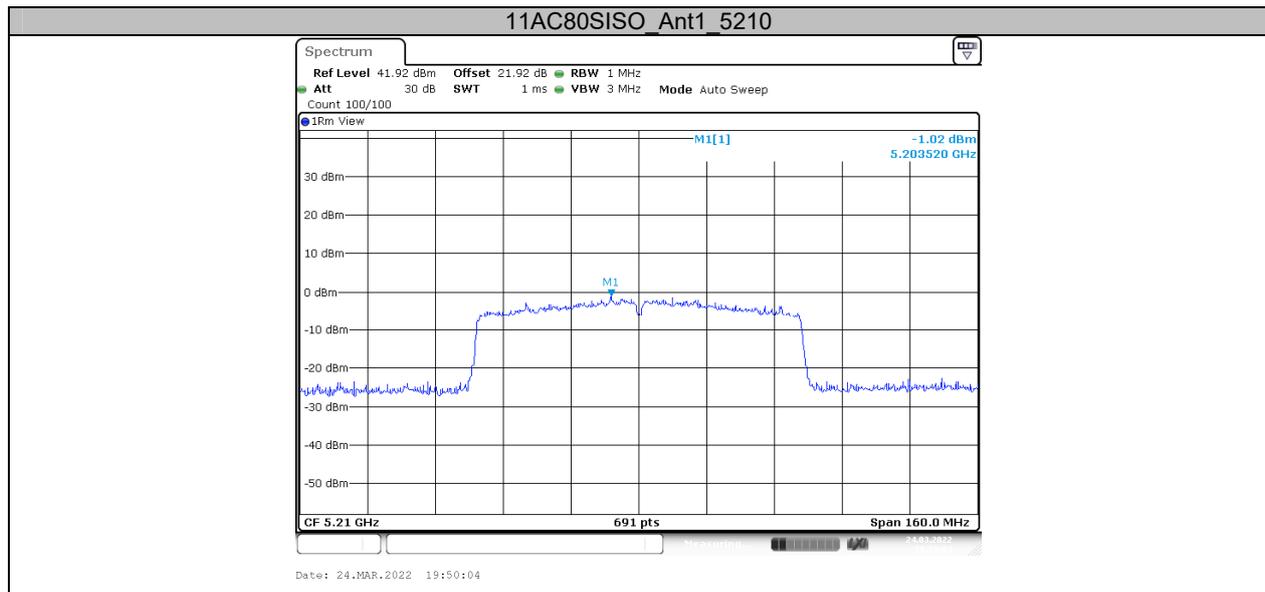








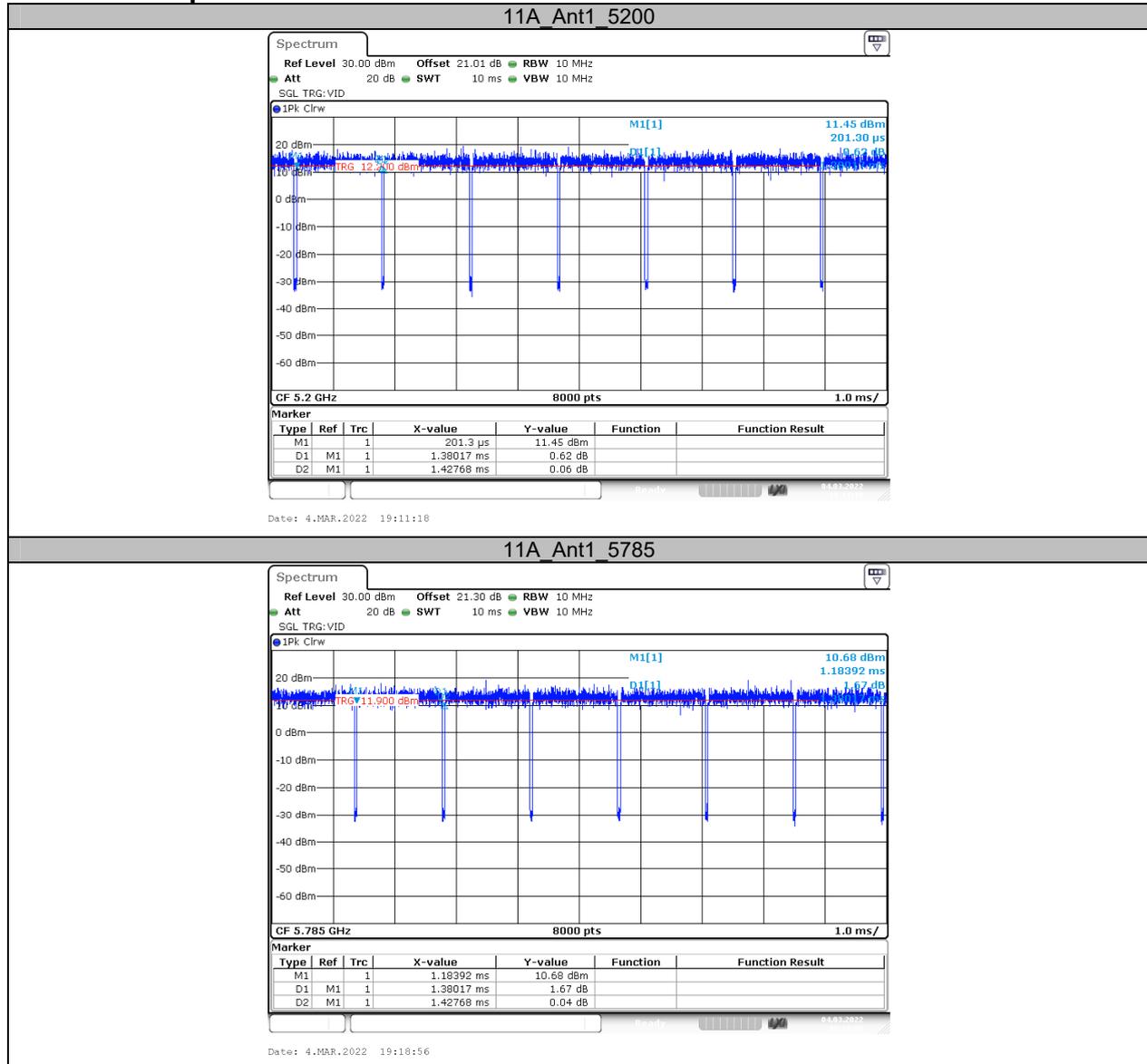


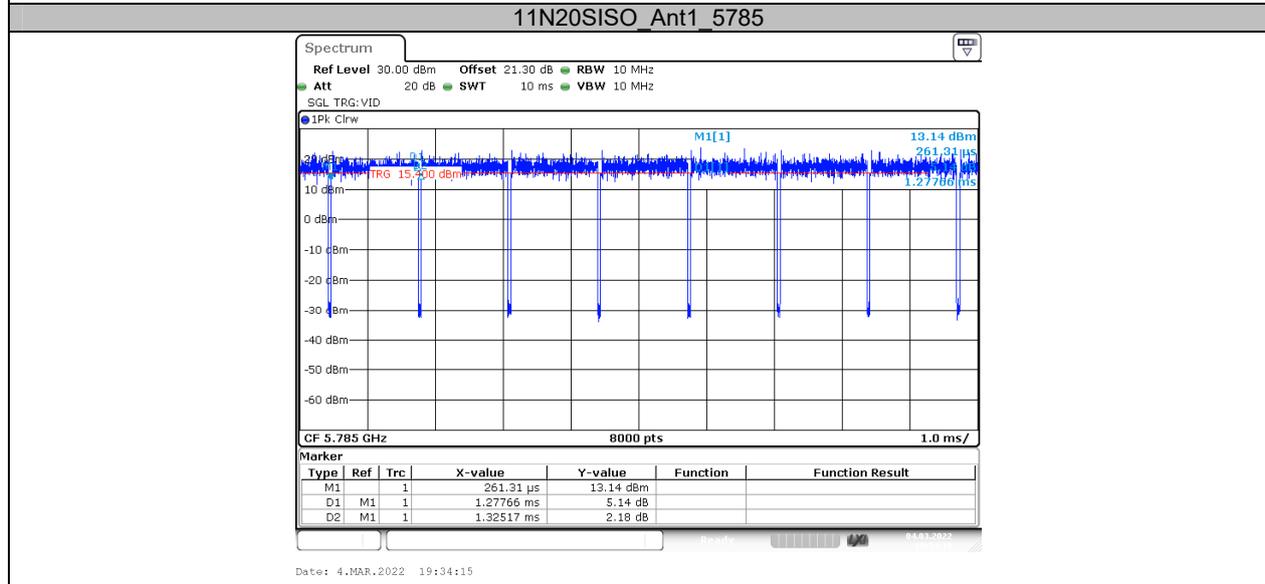
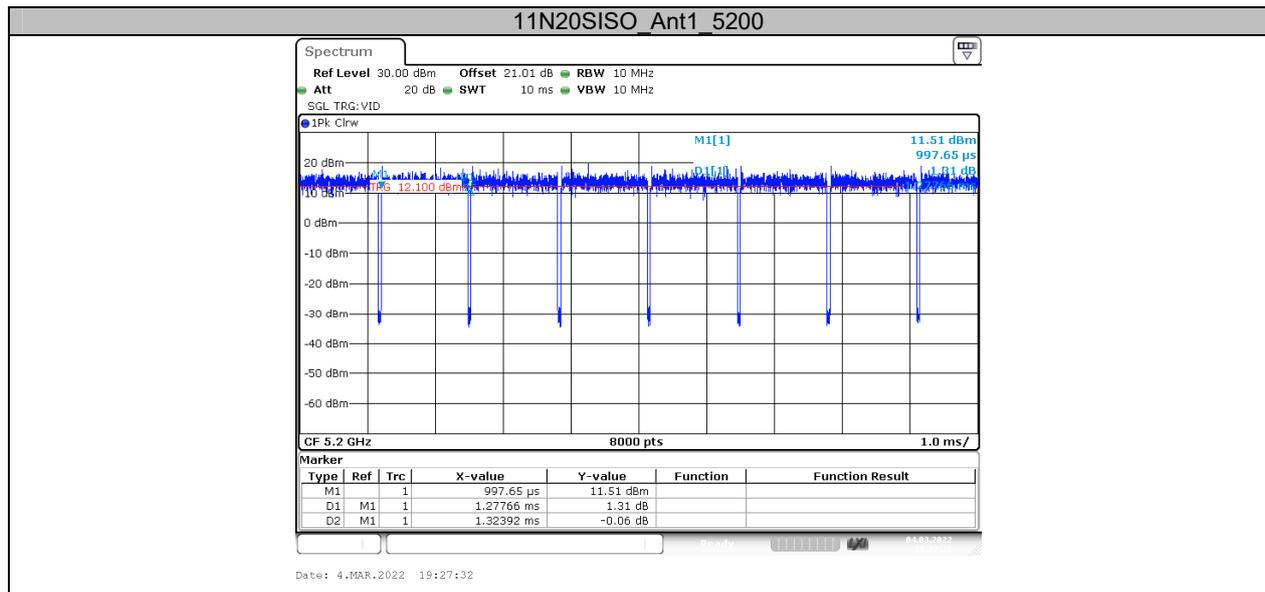


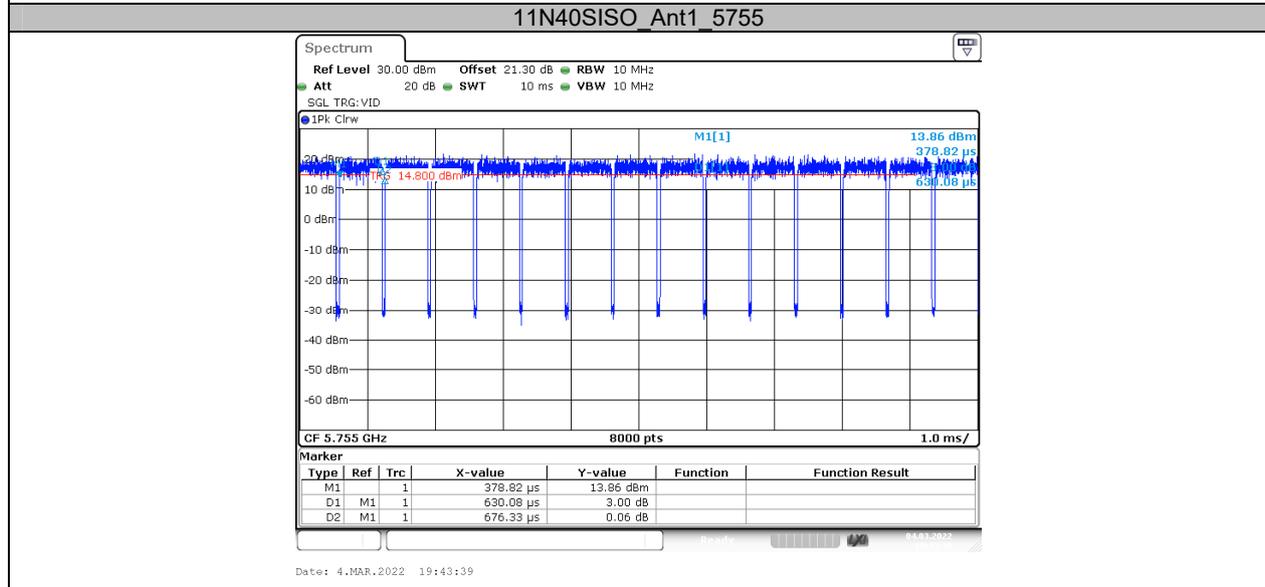
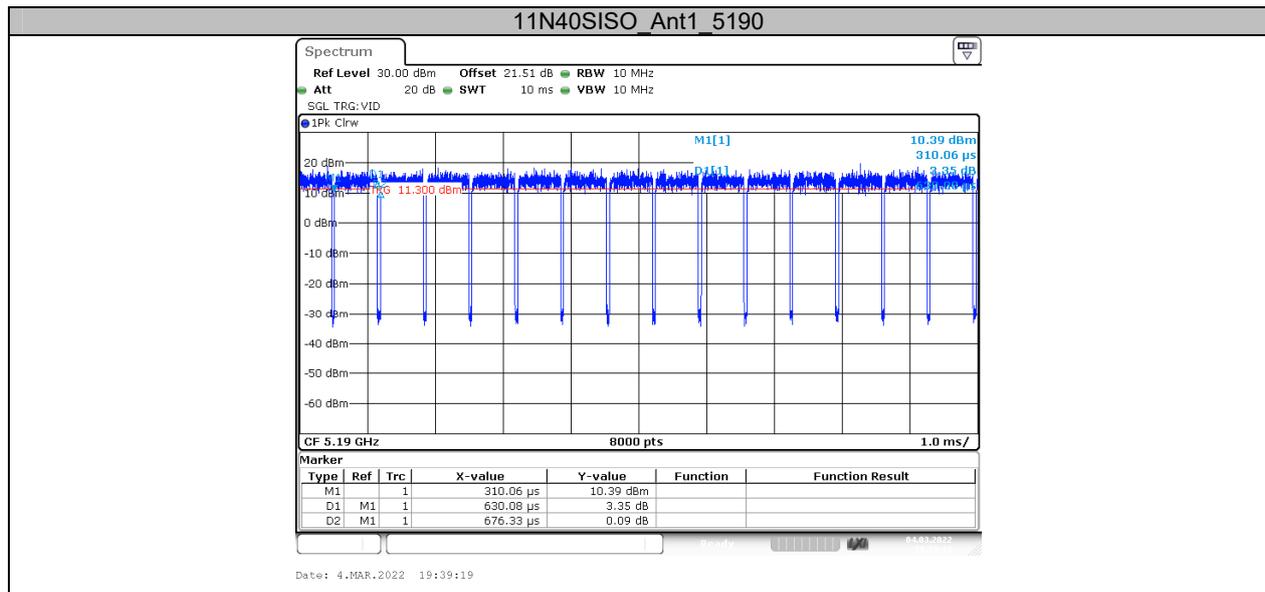
**Appendix D: Duty Cycle
Test Result**

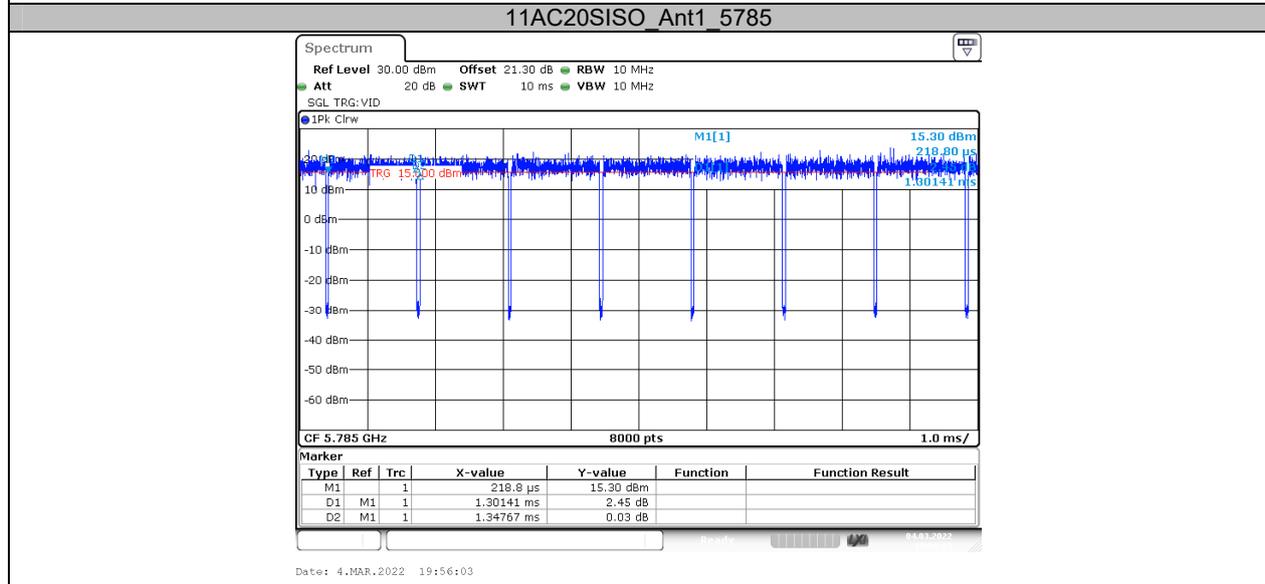
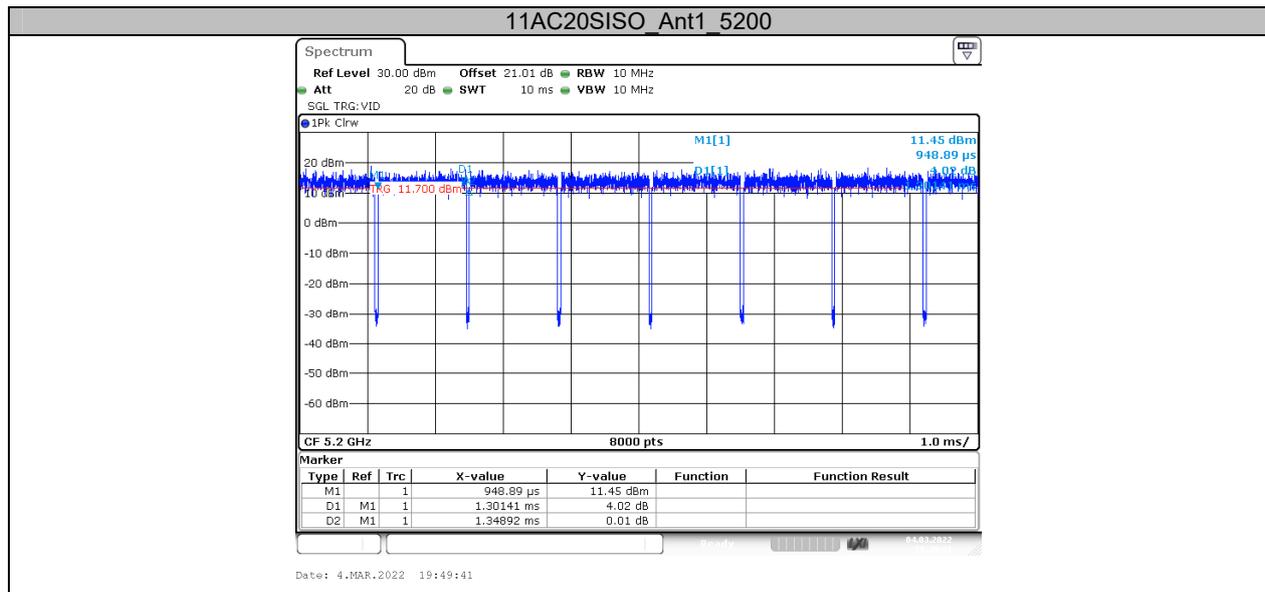
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5200	1.38	1.43	96.67
		5785	1.38	1.43	96.67
11N20SISO	Ant1	5200	1.28	1.32	96.51
		5785	1.28	1.33	96.42
11N40SISO	Ant1	5190	0.63	0.68	93.16
		5755	0.63	0.68	93.16
11AC20SISO	Ant1	5200	1.30	1.35	96.48
		5785	1.30	1.35	96.57
11AC40SISO	Ant1	5190	0.65	0.69	93.32
		5755	0.65	0.69	93.31
11AC80SISO	Ant1	5210	0.30	0.37	81.08
		5775	0.30	0.37	81.08

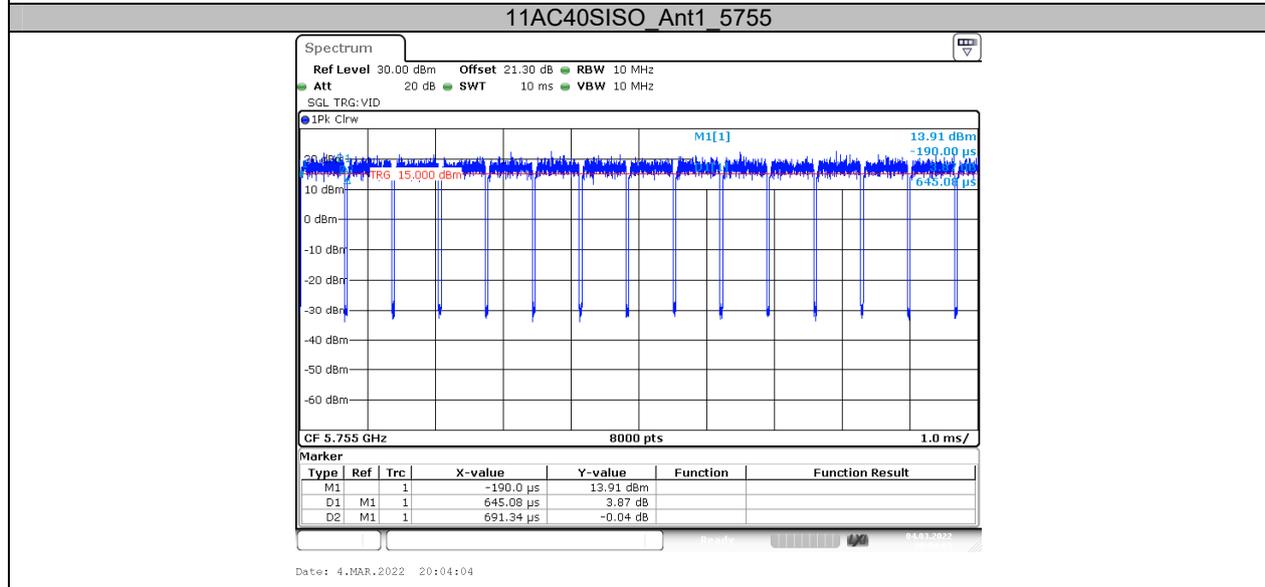
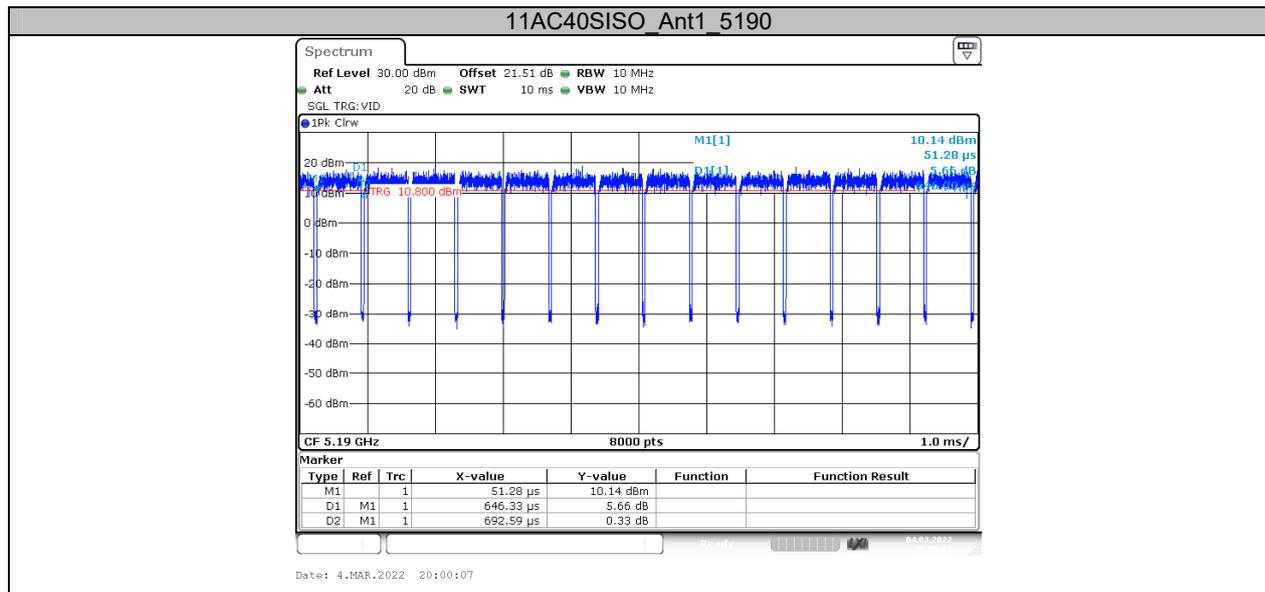
Test Graphs

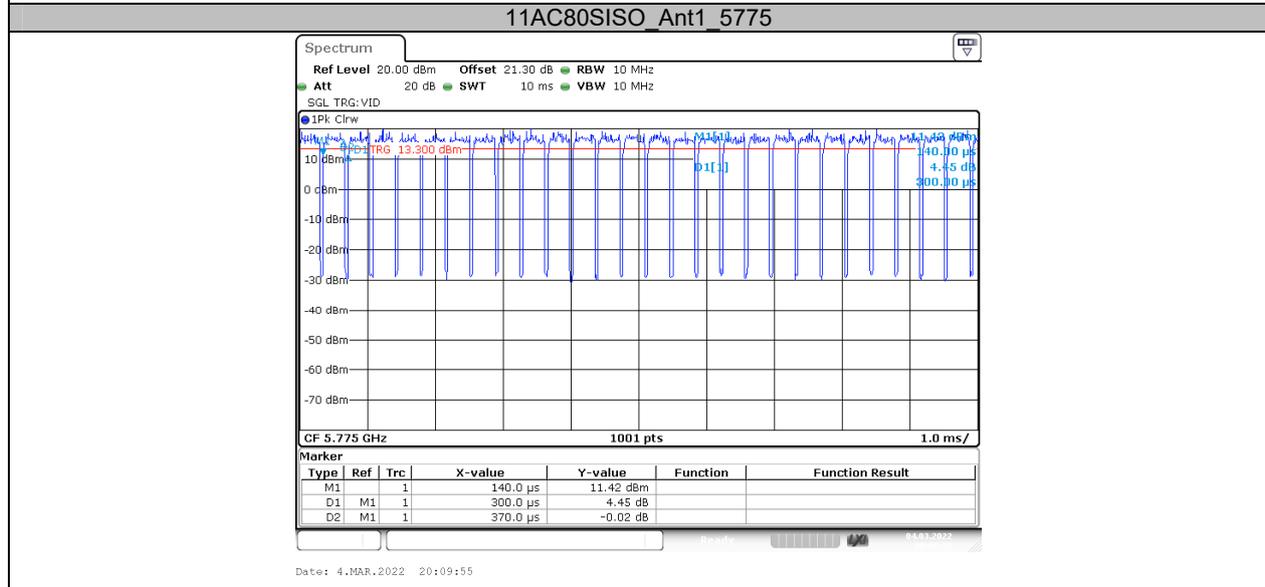
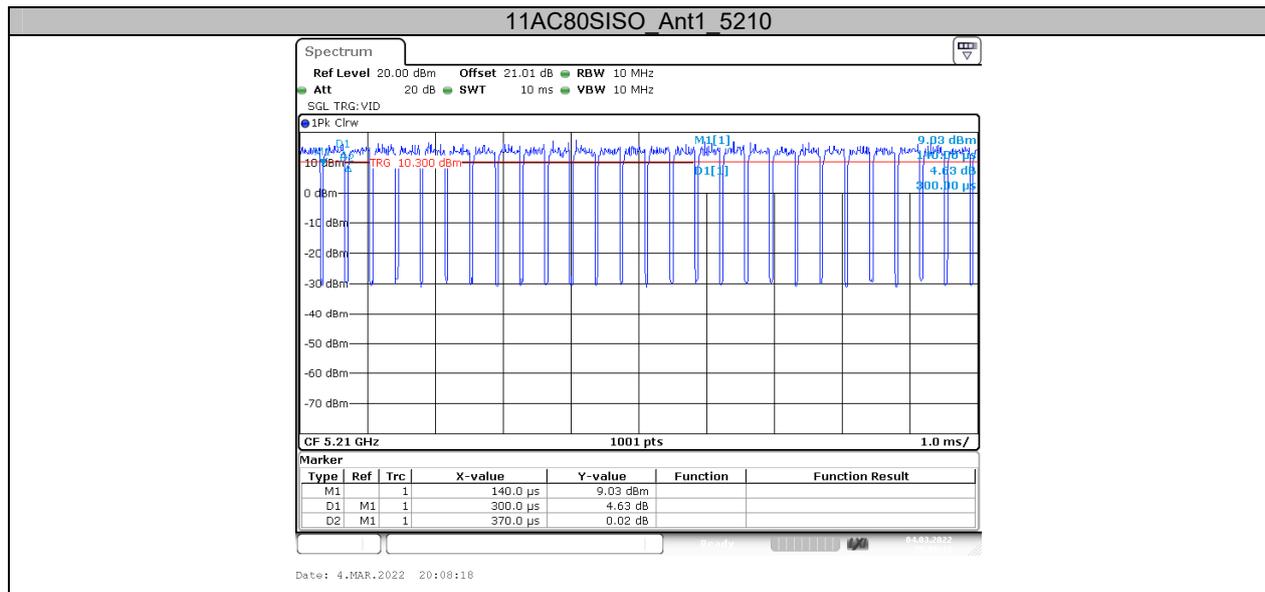












***** END OF REPORT *****