

RF TEST REPORT

Test Equipment : AIRTMS S807
Model Name : AIRTMS S807
HVIN(IC) : S807
FCC ID : 2BRSL-S807
IC : 34476-S807
Date of receipt : 2025-07-16
Test duration : 2025-09-03 ~ 2025-10-24
Date of issue : 2025-11-17

Applicant : KORNIC GLORY CO., Ltd.
WonyoungBldg. 3F~4F, 155, Hakdong-ro, Gangnam-gu, Seoul,
Republic of Korea

Test Laboratory : Lab-T, Inc.
2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si
Gyeonggi-do 17036, Korea

Test specification : FCC Part 15 Subpart E 15.407
RSS-248 Issue 3 (2024-10), RSS-GEN Issue 5 A2 (2021-02)

RF Output Power : 18.87 dBm

Test result : Pass

The above equipment was tested by Lab-T Testing Laboratory for compliance
with the requirements of FCC,IC Rules and Regulations.

The test results presented in this test report are limited only to the sample supplied by applicant
and the use of this test report is inhibited other than its purpose.

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Tested by:

Engineer
SungSin Kim



Reviewed by:

Technical Manager
SangHoon Yu



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1. Revision history

Test Report No.	Date	Description
TRRFCC25-0005	2025-11-17	Initial issue

2. Information

2.1 Applicant Information

Applicant name	KORNIC GLORY CO., Ltd.
Address	WonyoungBldg. 3F~4F, 155, Hakdong-ro, Gangnam-gu, Seoul, Republic of Korea
Telephone No.	+82-2-6003-0953
Person in charge	KYUNGIL KANG / cs@kglory.co.kr
Manufacturer	DAVOLINK Inc.
Address	112, Beolmal-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

2.2 Test Laboratory information

Corporate name	Lab-T, Inc.
Representative	Duke (Jongyoung) Kim
Address	2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)
FCC & IC MRA Designation No.	KR0159
ISED No.	22000
Telephone	+82-31-322-6767
Fax	+82-31-322-6768
E-mail	info@lab-t.net

2.3 Test Location

Test Site	used	Address
Building L	☒	2182-40 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)
Building T	☒	2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)
Building A	☐	2182-44 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)

3. Information About Test Equipment

3.1 Equipment Information

Equipment type	AIRTMS S807
Equipment model name	AIRTMS S807
HVIN ^{Note3}	S807
Frequency range	5 955 MHz ~ 7 115 MHz (20MHz BW) 5 965 MHz ~ 7 085 MHz (40MHz BW) 5 985 MHz ~ 7 025 MHz (80MHz BW) 6 025 MHz ~ 6 985 MHz (160MHz BW)
Modulation type	OFDM, OFDMA
Power supply ^{Note 2}	DC 12 V, PoE(48V)
H/W version	DV-PCB-DVW-704-V1.0
S/W version	TESS AIRTMS V5.0

Note 1 : The above EUT information was declared by the manufacturer.

Note 2 : The test was performed only at DC 12 V.

Note 3 : HVIN is model name of the IC

3.2 Antenna Information

Type	Model No.	Gain				Note.
		5 925 ~ 6 425	6 425 ~ 6 525	6 525 ~ 6 875	6 875 ~ 7 125	
PCB antenna 1	Anray2313049309PA01	3.5 dBi	3.5 dBi	3.5 dBi	3.5 dBi	TRX
PCB antenna 2	Anray2313049309PB02	3.5 dBi	3.5 dBi	3.5 dBi	3.5 dBi	RX

3.3 Test frequency

Test mode	Test frequency (MHz)			
	Band	Lowest Frequency	Middle Frequency	Highest Frequency
802.11ax(HE20) /802.11be(EHT20)	5 925 ~ 6 425	5 955	6 175	6 415
	6 425 ~ 6 525	6 435	6 475	6 515
	6 525 ~ 6 875	6 535	6 695	6 855
	straddle	6 875	-	-
	6 875 ~ 7 125	6 895	6 995	7 115
802.11ax(HE40) /802.11be(EHT40)	5 925 ~ 6 425	5 965	6 165	6 405
	6 425 ~ 6 525	6 445	6 485	-
	6 525 ~ 6 875	6 565	6 685	6 845
	straddle	6 525	6 885	-
	6 875 ~ 7 125	6 925	7 005	7 085
802.11ax(HE80) /802.11be(EHT80)	5 925 ~ 6 425	5 985	6 145	6 385
	6 425 ~ 6 525	6 465	-	-
	6 525 ~ 6 875	6 625	6 705	6 785
	straddle	6 545	6 865	-
	6 875 ~ 7 125	6 945	7 025	-
802.11ax(HE160) /802.11be(EHT160)	5 925 ~ 6 425	6 025	6 185	6 345
	6 425 ~ 6 525	-	-	-
	6 525 ~ 6 875	6 665	-	-
	straddle	6 505	6 825	-
	6 875 ~ 7 125	6 985	-	-

3.4 Worst-case

802.11ax(HE20)	MCS0	802.11be(EHT20)	MCS0
802.11ax(HE40)	MCS0	802.11be(EHT40)	MCS0
802.11ax(HE80)	MCS0	802.11be(EHT80)	MCS0
802.11ax(HE160)	MCS0	802.11be(EHT160)	MCS0

Note1 : The power measurement has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

3.5 Tested Companion Device Information

Type	Manufacturer	Model	Note
Wireless Module	Intel	BE200	Mounted on the Desktop PC FCCID : PD9BE200NG IC : 1000M-BE200NG
AC/DC ADAPTER	POWER-TEK	SWPP-12003000-W	

3.6 Operating conditions for the EUT

Firmware state		TESS AIRTMS V5.0
Test software name(version)		QRCT v4.0
Test power setting		Declared setting value
Serial number (Setup mode)	EUT #1	00434 (RF Conducted, Contention-based protocol)
	EUT #2	00433 (Radiated & Conducted Emission)

4. Test Report

4.1 Summary

FCC Part 15E 407 / RSS-248				
FCC Rule	IC Rule	Parameter	Clause	Status
Transmitter Requirements				
15.203 15.407(a)	RSS-GEN 6.8	Antenna Requirement	4.3.1	C
15.407(a)	RSS-248 4.5.2	Maximum Conducted Output Power	4.3.2	C
15.407(a)		Maximum Power Spectral Density	4.3.3	C
15.407(a)(11)	-	Emission Bandwidth	4.3.4	C
-	RSS-GEN 6.7	Occupied Bandwidth	4.3.4	C
15.407(g)	RSS-GEN 6.11	Frequency Stability	4.3.5	C
15.407(b) 15.205(a) 15.209(a)	RSS-248 4.6.2	Radiated Emission, Band Edge and Restricted bands	4.3.6	C
15.407(b)(7)	RSS-248 4.6.2.b	In-Band Emission	4.3.7	C
15.207(a) 15.407(b)(9)	RSS-GEN 8.8	Conducted Emissions	4.3.8	C
15.407(d)(6)	RSS-248 4.7	Contention-based protocol	4.3.9	C
NOTE 1 : C = Comply N/C = Not Comply N/T = Not Tested N/A = Not Applicable				

* The general test methods used to test this device is ANSI C63.10:2020

4.2 Measurement Uncertainty

Mesurement items	Expanded Uncertainty	
RF Output Power	1.16 dB	(The confidence level is about 95 %, k=2)
Power Spectral Density	1.47 dB	(The confidence level is about 95 %, k=2)
Occupied Channel Bandwidth	13.15 kHz	(The confidence level is about 95 %, k=2)
Conducted Spurious Emissions	0.48 dB	(The confidence level is about 95 %, k=2)
Radiated Spurious Emissions (1 GHz under)	4.85 dB	(The confidence level is about 95 %, k=2)
Radiated Spurious Emissions (Above 1 GHz)	4.39 dB	(The confidence level is about 95 %, k=2)
Conducted emission	2.42 dB	(The confidence level is about 95 %, k=2)

4.3 Transmitter Requirements

4.3.1 Antenna Requirement

4.3.1.1 Regulation

Accoding 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 use of a standard antenna jack or electrical connector is prohibited.

Accoding to §RSS-GEN 6.8 The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

4.3.1.2 Result

Comply

(The transmitter has a Internal PCB Antenna. The directional peak gain of the antenna is 3.5 dBi.)

4.3.1.3 Measurement data

Antenna	Directional Gain For Power(dBi)	Directional Gain For PSD(dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
Band	5925 ~ 7125			
PCB antenna 1	3.5	3.5	0.00	0.00

4.3.2 Maximum Conducted Output Power

4.3.2.1 Regulation

According to §15.407(a)(5) and RSS-248 4.5.2 For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

4.3.2.2 Measurement Procedure

These test measurement settings are specified in section E of 789033 D02 General UNII Test Procedures.

4.3.2.2.1 Measurement using a Power Meter (PM)

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in section II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

4.3.2.3 Result

Comply (measurement data : refer to the next page)

4.3.2.4 Measurement data

Test mode : 802.11ax(HE20)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
5 955	14.38	17.88	30.00
6 175	12.54	16.04	30.00
6 415	13.66	17.16	30.00
6 435	13.44	16.94	30.00
6 475	13.89	17.39	30.00
6 515	13.57	17.07	30.00
6 535	13.45	16.95	30.00
6 695	13.66	17.16	30.00
6 855	14.73	18.23	30.00
6 875	14.86	18.36	30.00
6 895	13.10	16.60	30.00
6 995	12.58	16.08	30.00
7 115	-10.34	-6.84	30.00

Test mode : 802.11ax(HE40)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
5 965	14.66	18.16	30.00
6 165	12.48	15.98	30.00
6 405	14.77	18.27	30.00
6 445	14.56	18.06	30.00
6 485	13.73	17.23	30.00
6 525	13.68	17.18	30.00
6 565	16.09	19.59	30.00
6 685	16.85	20.35	30.00
6 845	16.52	20.02	30.00
6 885	17.16	20.66	30.00
6 925	16.15	19.65	30.00
7 005	16.00	19.50	30.00
7 085	15.46	18.96	30.00

- Note 1 : refer to 4.3.1 for information on Antenna gain
Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
Note 3 : Result eirp(dBm) : Measured Value + Duty cycle Factor + Antenna gain
Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ax(HE80)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
5 985	13.23	16.73	30.00
6 145	12.15	15.65	30.00
6 385	14.55	18.05	30.00
6 465	14.02	17.52	30.00
6 545	13.72	17.22	30.00
6 625	16.61	20.11	30.00
6 705	16.33	19.83	30.00
6 785	15.10	18.60	30.00
6 865	16.49	19.99	30.00
6 945	18.01	21.51	30.00
7 025	16.13	19.63	30.00

Test mode : 802.11ax(HE160)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
6 025	12.04	15.54	30.00
6 185	12.49	15.99	30.00
6 345	13.84	17.34	30.00
6 505	13.35	16.85	30.00
6 665	16.55	20.05	30.00
6 825	16.63	20.13	30.00
6 985	18.85	22.35	30.00

- Note 1 : refer to 4.3.1 for information on Antenna gain
 Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
 Note 3 : Result eirp(dBm) : Measured Value + Duty cycle Factor + Antenna gain
 Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11be(EHT20)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
5 955	14.20	17.70	30.00
6 175	12.72	16.22	30.00
6 415	13.75	17.25	30.00
6 435	13.50	17.00	30.00
6 475	13.98	17.48	30.00
6 515	13.79	17.29	30.00
6 535	13.75	17.25	30.00
6 695	13.76	17.26	30.00
6 855	14.04	17.54	30.00
6 875	14.92	18.42	30.00
6 895	13.17	16.67	30.00
6 995	12.71	16.21	30.00
7 115	-9.55	-6.05	30.00

Test mode : 802.11be(EHT40)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
5 965	14.46	17.96	30.00
6 165	12.34	15.84	30.00
6 405	14.68	18.18	30.00
6 445	14.48	17.98	30.00
6 485	13.78	17.28	30.00
6 525	13.57	17.07	30.00
6 565	16.01	19.51	30.00
6 685	16.76	20.26	30.00
6 845	16.42	19.92	30.00
6 885	17.08	20.58	30.00
6 925	15.96	19.46	30.00
7 005	15.79	19.29	30.00
7 085	15.24	18.74	30.00

- Note 1 : refer to 4.3.1 for information on Antenna gain
Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
Note 3 : Result eirp(dBm) : Measured Value + Duty cycle Factor + Antenna gain
Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11be(EHT80)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
5 985	13.25	16.75	30.00
6 145	12.15	15.65	30.00
6 385	14.56	18.06	30.00
6 465	14.07	17.57	30.00
6 545	13.74	17.24	30.00
6 625	16.65	20.15	30.00
6 705	16.40	19.90	30.00
6 785	16.43	19.93	30.00
6 865	16.49	19.99	30.00
6 945	18.06	21.56	30.00
7 025	16.27	19.77	30.00

Test mode : 802.11be(EHT160)

Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Limit (dBm)
6 025	12.05	15.55	30.00
6 185	12.48	15.98	30.00
6 345	13.84	17.34	30.00
6 505	13.37	16.87	30.00
6 665	16.54	20.04	30.00
6 825	16.62	20.12	30.00
6 985	18.87	22.37	30.00

Note 1 : refer to 4.3.1 for information on Antenna gain

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result eirp(dBm) : Measured Value + Duty cycle Factor + Antenna gain

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

4.3.3 Maximum Power Spectral Density(PSD)

4.3.3.1 Regulation

According to §15.407(a)(5) and RSS-248 4.5.2 For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

4.3.3.2 Measurement Procedure

These test measurement settings are specified in section F of 789033 D02 General UNII Test Procedures.

4.3.3.2.1 Maximum Power Spectral Density (PSD)

The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power....” (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)

2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.

3. Make the following adjustments to the peak value of the spectrum, if applicable:

- a) If Method SA-2 or SA-2 Alternative was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
- b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.

4. The result is the Maximum PSD over 1 MHz reference bandwidth.

5. 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.I.a).
- b) Set $VBW \geq 3 RBW$.
- 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.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

4.3.3.3 Result

Comply (measurement data : refer to the next page)

4.3.3.4 Measurement data

Test mode : 802.11ax(HE20)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
5 955	1.37	4.87	5.00
6 175	0.90	4.40	5.00
6 415	1.34	4.84	5.00
6 435	1.10	4.60	5.00
6 475	0.83	4.33	5.00
6 515	0.80	4.30	5.00
6 535	0.71	4.21	5.00
6 695	0.98	4.48	5.00
6 855	1.38	4.88	5.00
6 875	1.33	4.83	5.00
6 895	1.37	4.87	5.00
6 995	1.07	4.57	5.00
7 115	-21.52	-18.02	5.00

Test mode : 802.11ax(HE40)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
5 965	-0.84	2.66	5.00
6 165	-2.12	1.38	5.00
6 405	-0.40	3.10	5.00
6 445	-0.86	2.64	5.00
6 485	-1.72	1.78	5.00
6 525	-2.04	1.46	5.00
6 565	0.74	4.24	5.00
6 685	1.40	4.90	5.00
6 845	1.08	4.58	5.00
6 885	0.72	4.22	5.00
6 925	1.45	4.95	5.00
7 005	1.43	4.93	5.00
7 085	1.22	4.72	5.00

- Note 1 : refer to 4.3.1 for information on Antenna gain
Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
Note 3 : Result eirp(dBm/MHz): PSD Measured Value + Duty cycle Factor + Antenna gain
Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ax(HE80)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
5 985	-5.35	-1.85	5.00
6 145	-5.03	-1.53	5.00
6 385	-3.40	0.10	5.00
6 465	-4.28	-0.78	5.00
6 545	-4.83	-1.33	5.00
6 625	-1.35	2.15	5.00
6 705	-2.07	1.43	5.00
6 785	-3.72	-0.22	5.00
6 865	-2.03	1.47	5.00
6 945	0.68	4.18	5.00
7 025	-0.96	2.54	5.00

Test mode : 802.11ax(HE160)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
6 025	-8.66	-5.16	5.00
6 185	-7.24	-3.74	5.00
6 345	-6.23	-2.73	5.00
6 505	-7.92	-4.42	5.00
6 665	-4.08	-0.58	5.00
6 825	-4.60	-1.10	5.00
6 985	-0.98	2.52	5.00

Note 1 : refer to 4.3.1 for information on Antenna gain

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result eirp(dBm/MHz): PSD Measured Value + Duty cycle Factor + Antenna gain

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11be(EHT20)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
5 955	1.47	4.97	5.00
6 175	1.02	4.52	5.00
6 415	1.46	4.96	5.00
6 435	0.99	4.49	5.00
6 475	1.42	4.92	5.00
6 515	1.10	4.60	5.00
6 535	0.17	3.67	5.00
6 695	1.29	4.79	5.00
6 855	1.15	4.65	5.00
6 875	1.41	4.91	5.00
6 895	1.49	4.99	5.00
6 995	1.15	4.65	5.00
7 115	-21.58	-18.08	5.00

Test mode : 802.11be(EHT40)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
5 965	-1.13	2.37	5.00
6 165	-2.42	1.08	5.00
6 405	-0.38	3.12	5.00
6 445	-0.82	2.68	5.00
6 485	-1.64	1.86	5.00
6 525	-2.18	1.32	5.00
6 565	0.55	4.05	5.00
6 685	1.41	4.91	5.00
6 845	1.12	4.62	5.00
6 885	0.52	4.02	5.00
6 925	1.38	4.88	5.00
7 005	1.45	4.95	5.00
7 085	1.16	4.66	5.00

- Note 1 : refer to 4.3.1 for information on Antenna gain
Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
Note 3 : Result eirp(dBm/MHz): PSD Measured Value + Duty cycle Factor + Antenna gain
Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11be(EHT80)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
5 985	-5.22	-1.72	5.00
6 145	-5.15	-1.65	5.00
6 385	-2.96	0.54	5.00
6 465	-4.30	-0.80	5.00
6 545	-4.72	-1.22	5.00
6 625	-1.41	2.09	5.00
6 705	-1.86	1.64	5.00
6 785	-3.41	0.09	5.00
6 865	-2.07	1.43	5.00
6 945	0.65	4.15	5.00
7 025	-0.93	2.57	5.00

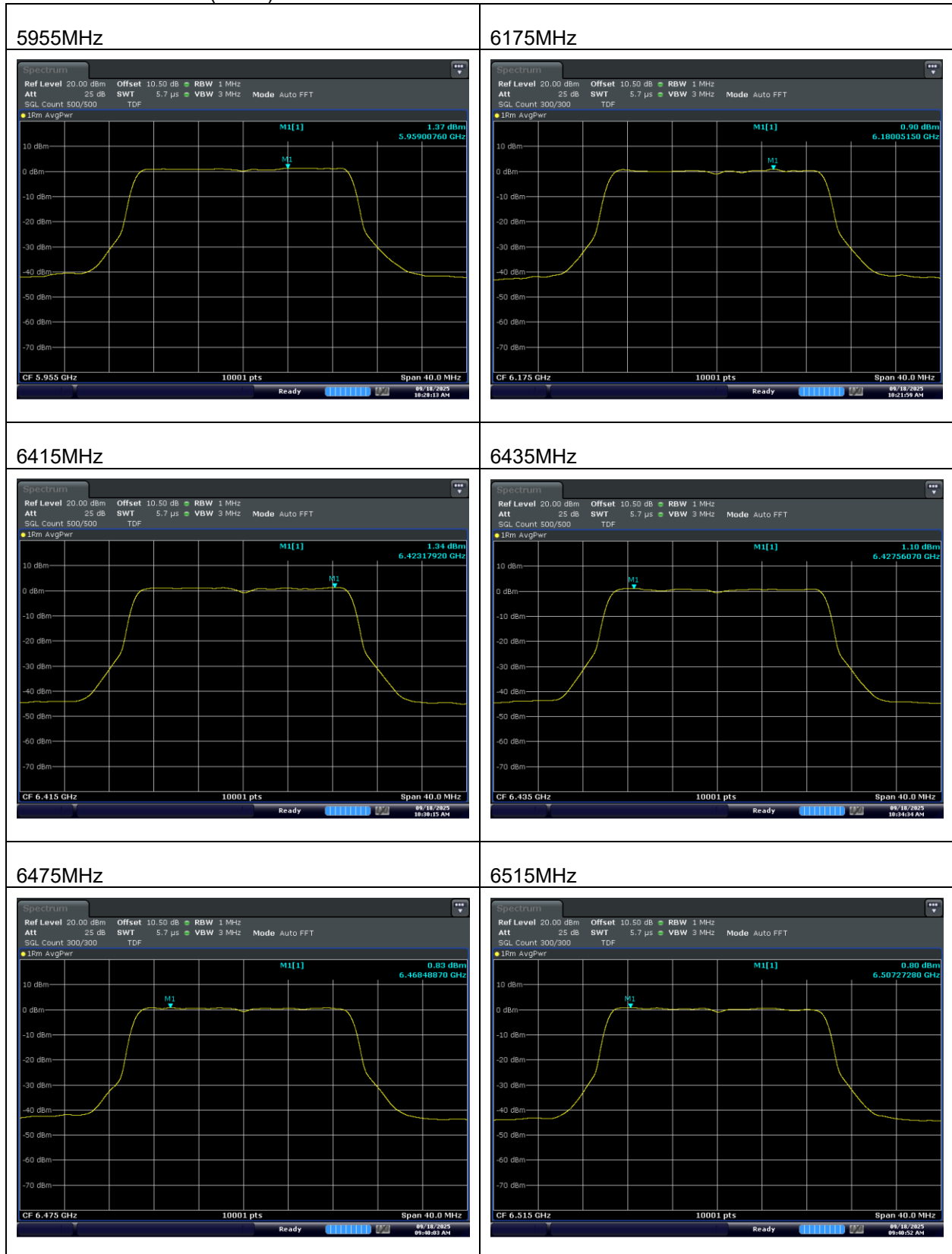
Test mode : 802.11be(EHT160)

Freq. (MHz)	PSD (dBm/MHz)	Result eirp (dBm/MHz)	Limit (dBm/MHz)
6 025	-8.90	-5.40	5.00
6 185	-7.10	-3.60	5.00
6 345	-6.28	-2.78	5.00
6 505	-7.96	-4.46	5.00
6 665	-4.19	-0.69	5.00
6 825	-4.38	-0.88	5.00
6 985	-1.03	2.47	5.00

- Note 1 : refer to 4.3.1 for information on Antenna gain
Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
Note 3 : Result eirp(dBm/MHz): PSD Measured Value + Duty cycle Factor + Antenna gain
Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

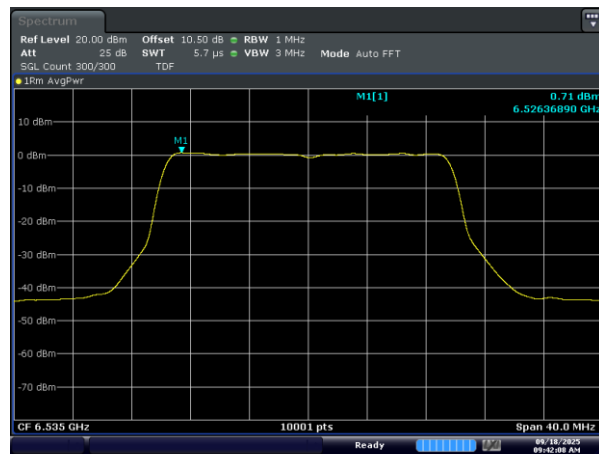
4.3.3.5 Test Plot

Test mode : 802.11ax(HE20)

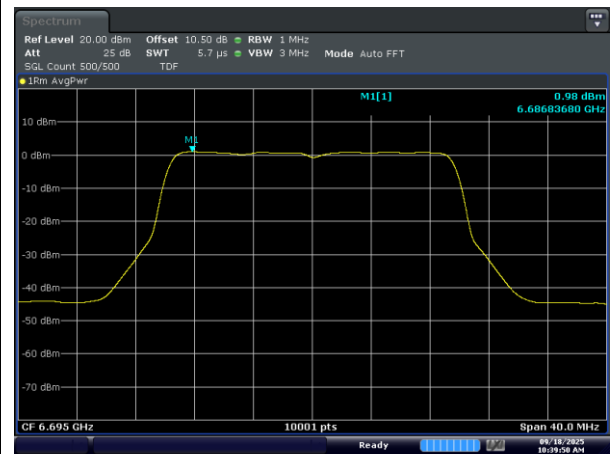


Test mode : 802.11ax(HE20)

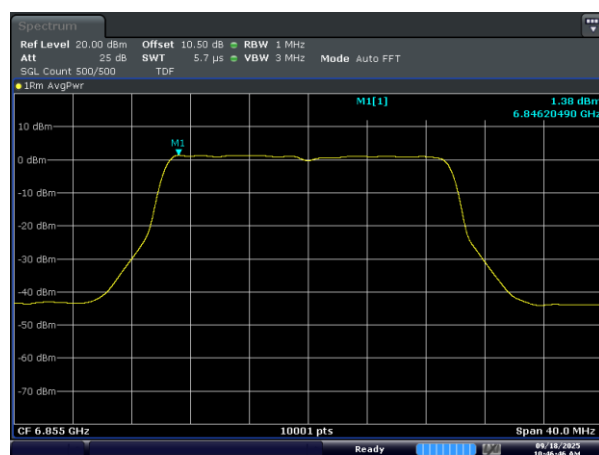
6535MHz



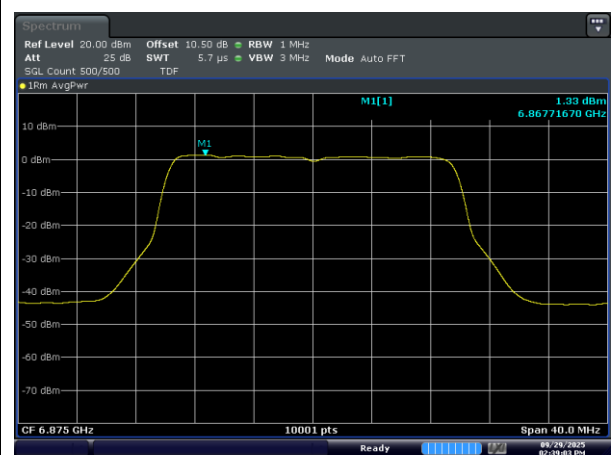
6695MHz



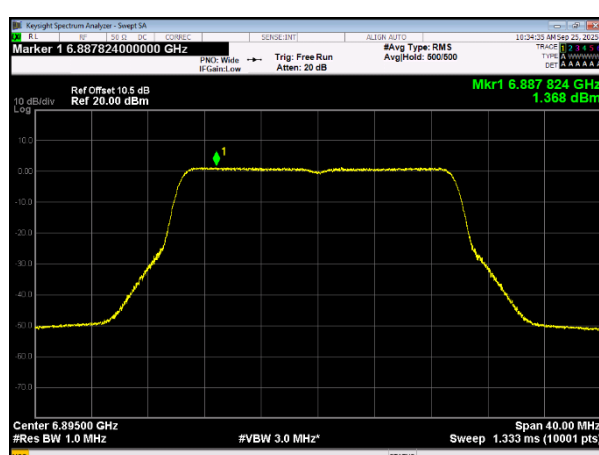
6855MHz



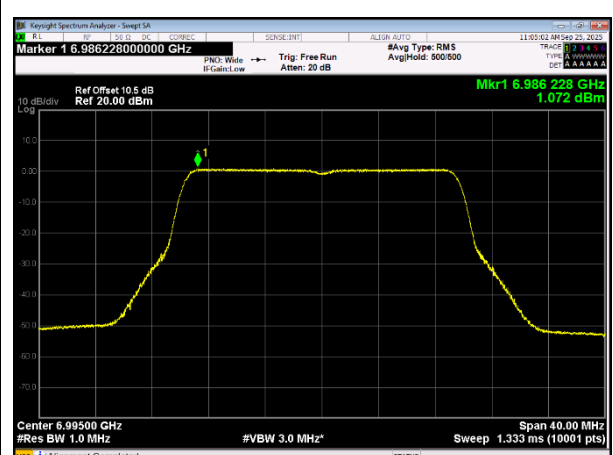
6875MHz



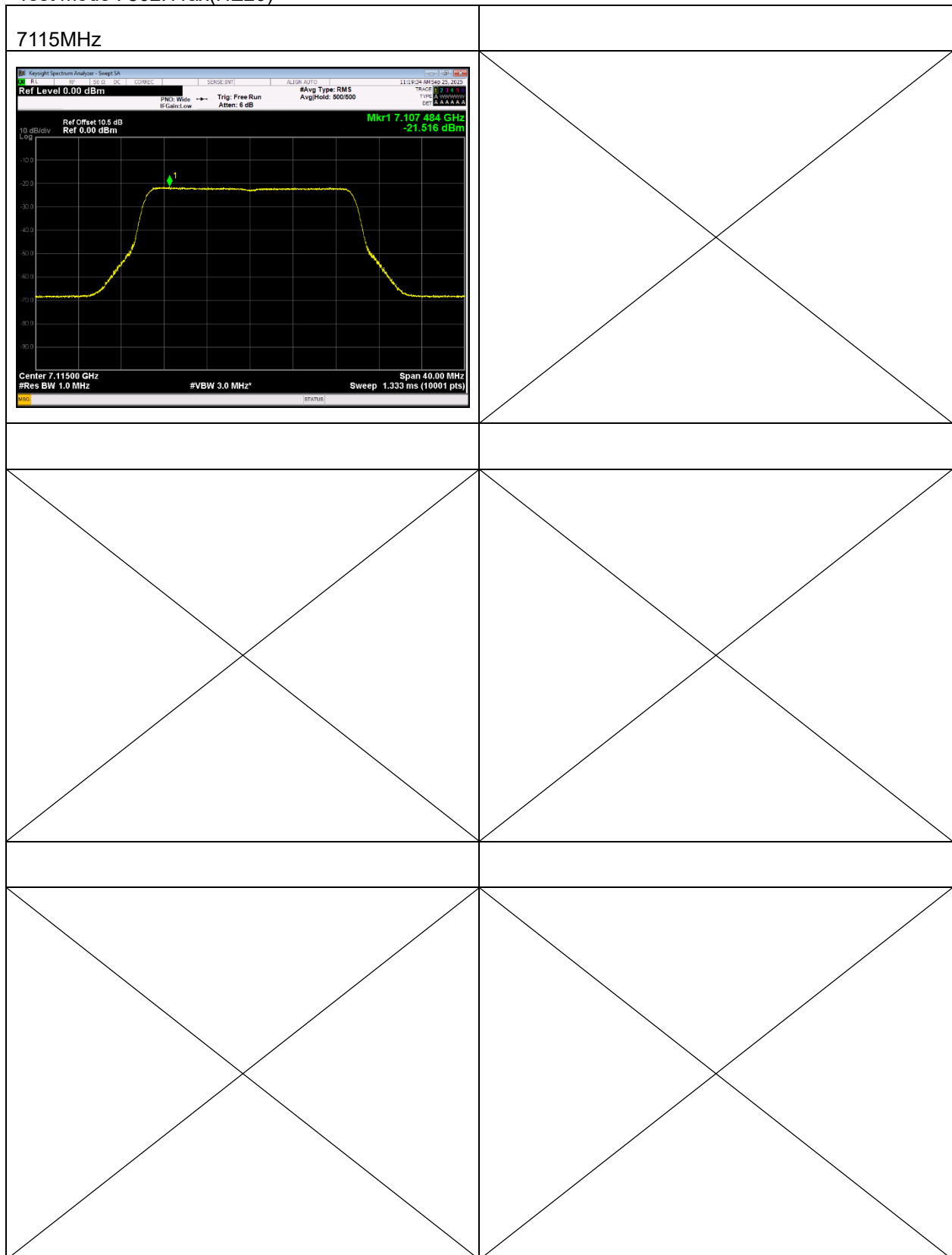
6895MHz



6995MHz

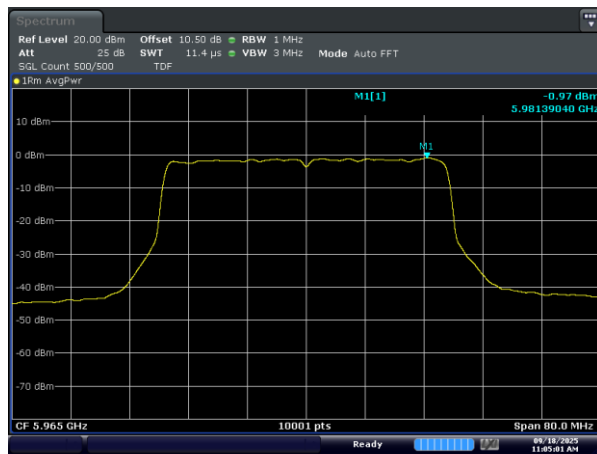


Test mode : 802.11ax(HE20)

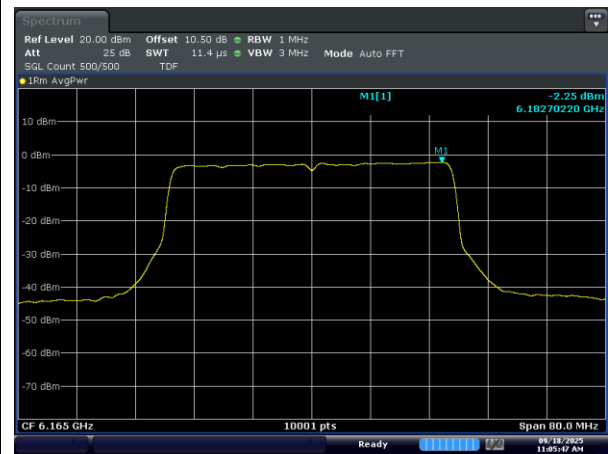


Test mode : 802.11ax(HE40)

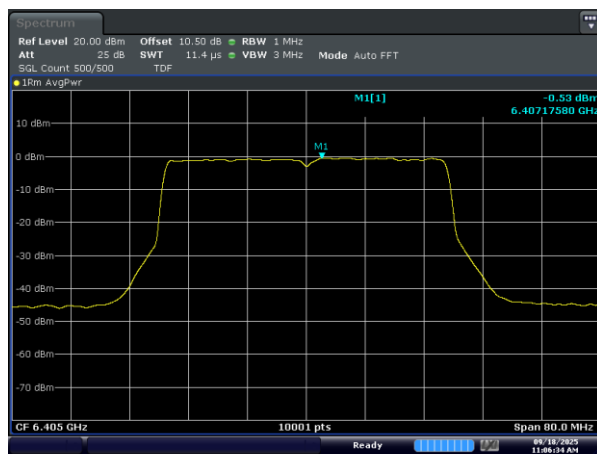
5965MHz



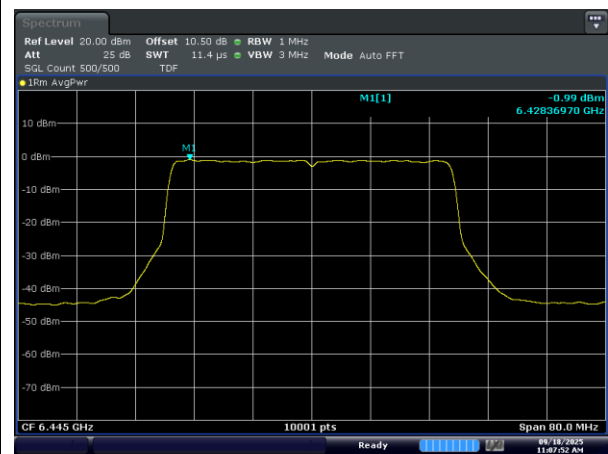
6165MHz



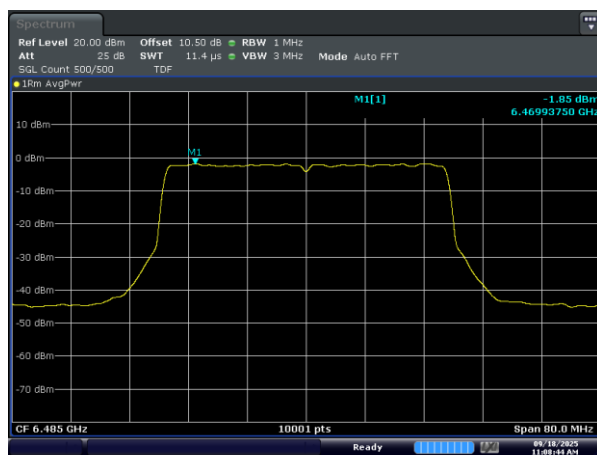
6405MHz



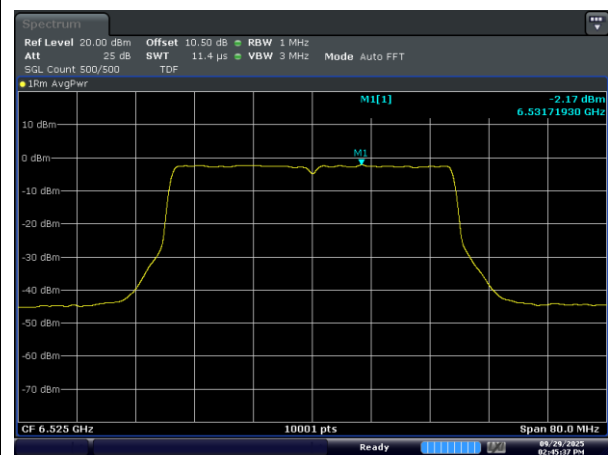
6445MHz



6485MHz

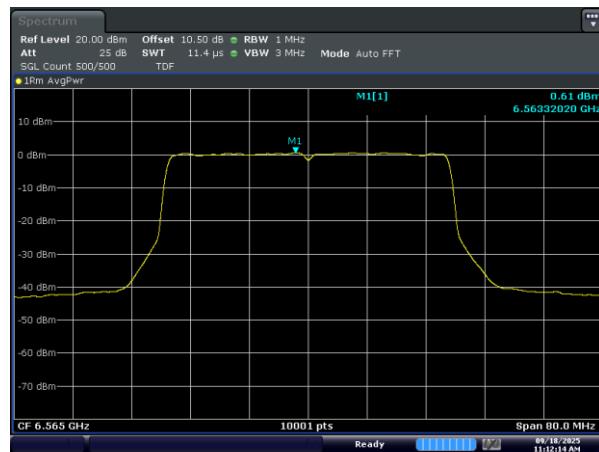


6525MHz

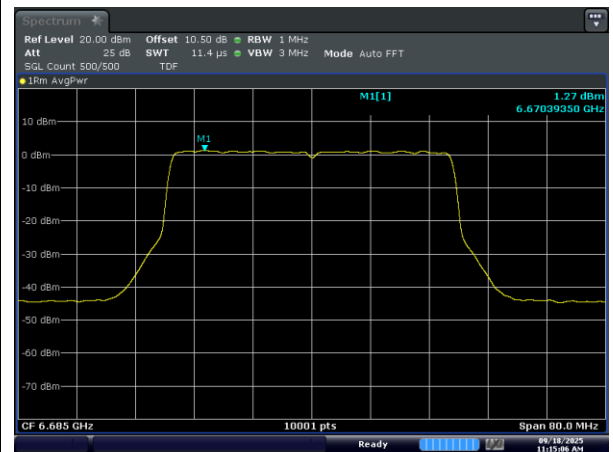


Test mode : 802.11ax(HE40)

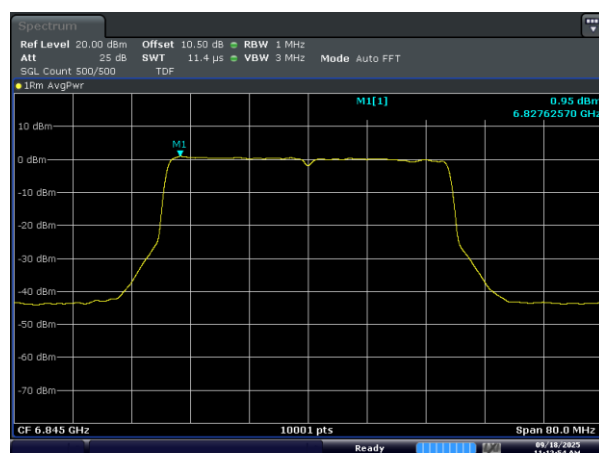
6565MHz



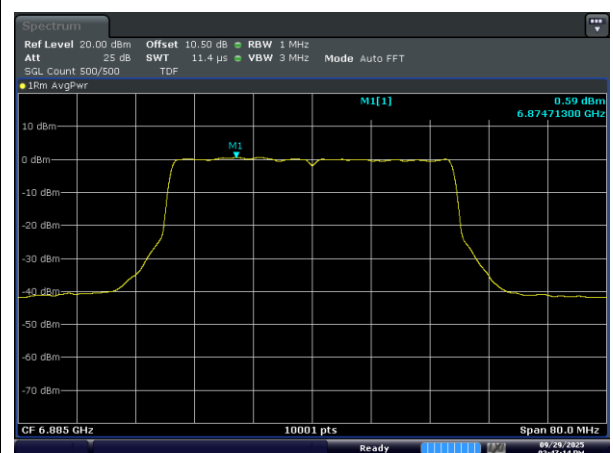
6685MHz



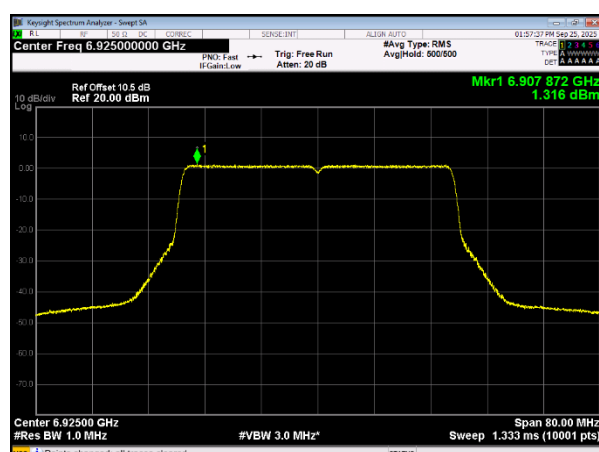
6845MHz



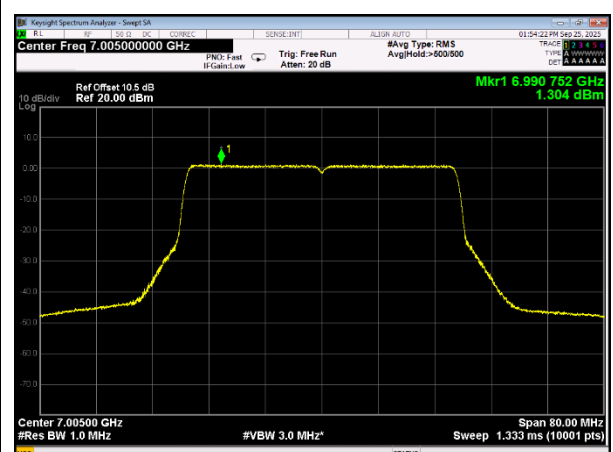
6885MHz



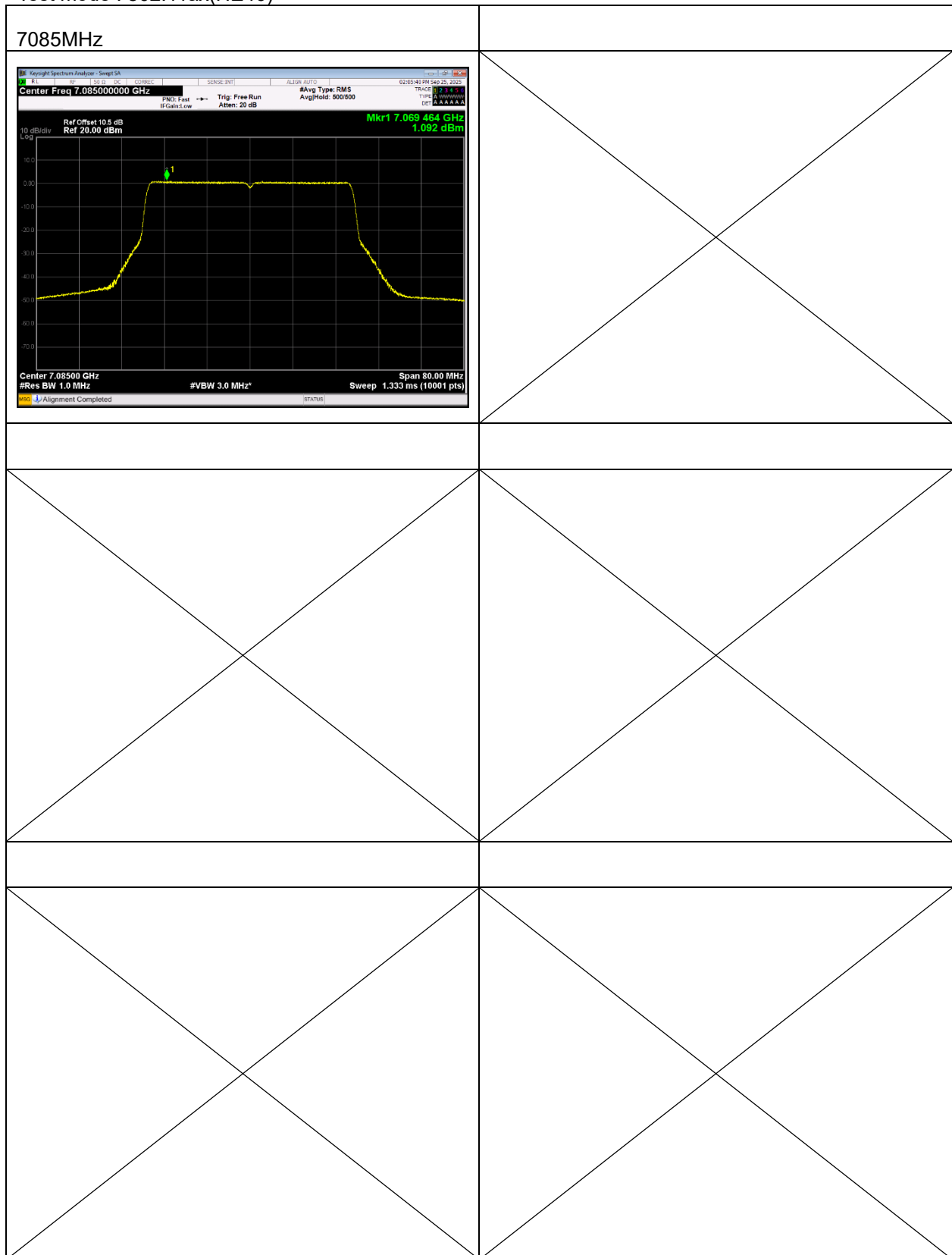
6925MHz



7005MHz

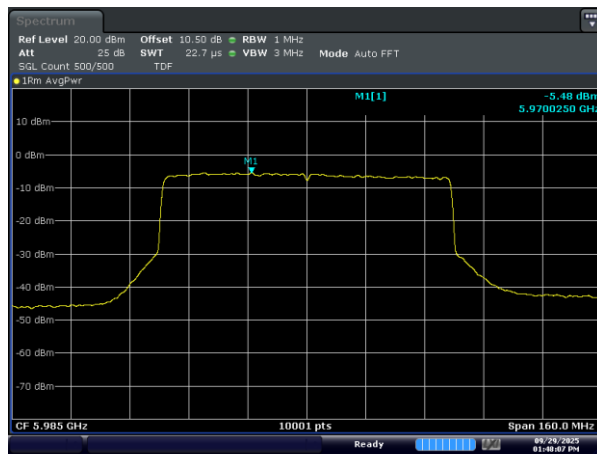


Test mode : 802.11ax(HE40)

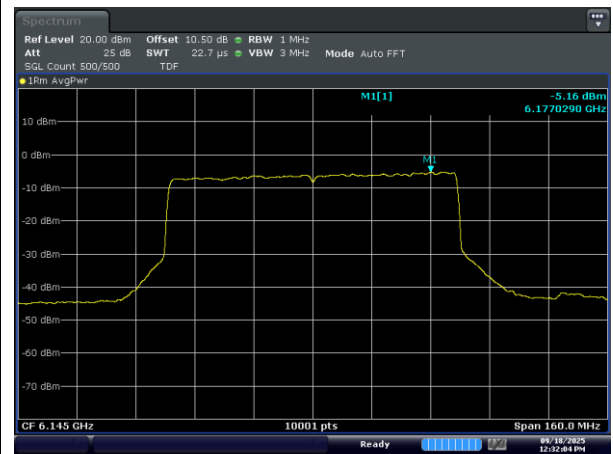


Test mode : 802.11ax(HE80)

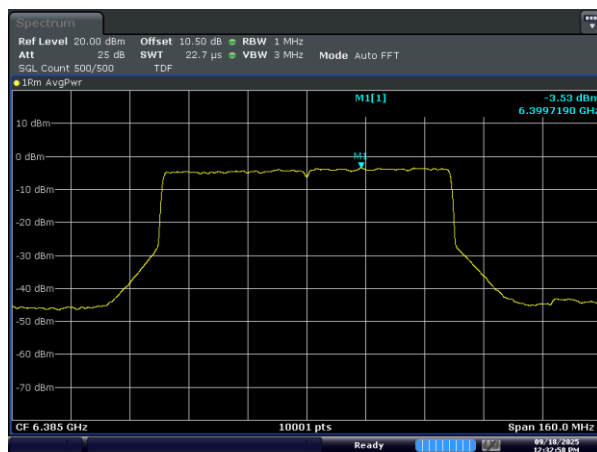
5985MHz



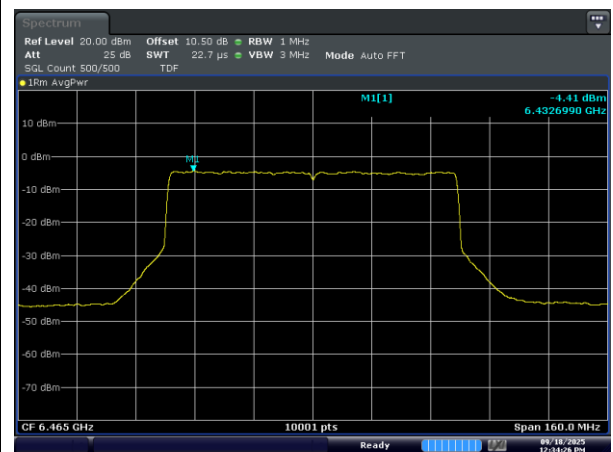
6145MHz



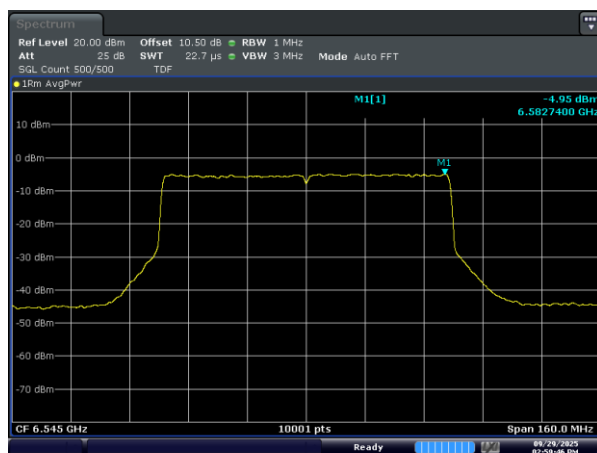
6385MHz



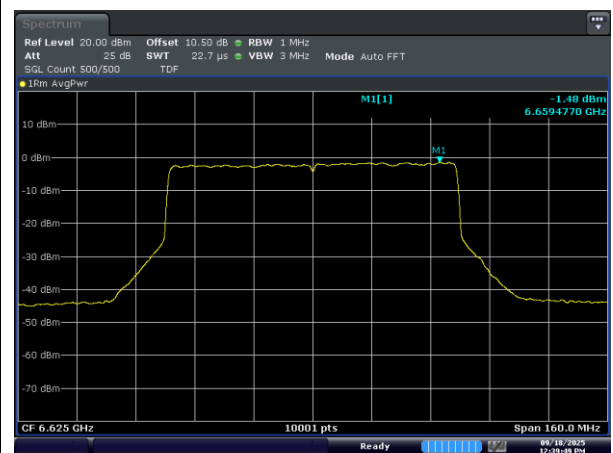
6465MHz



6545MHz

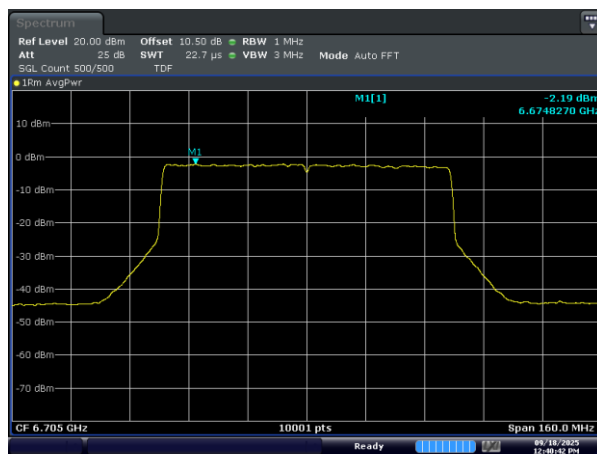


6625MHz

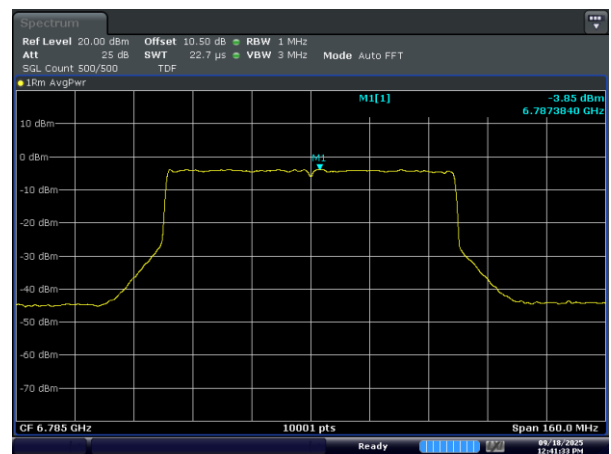


Test mode : 802.11ax(HE80)

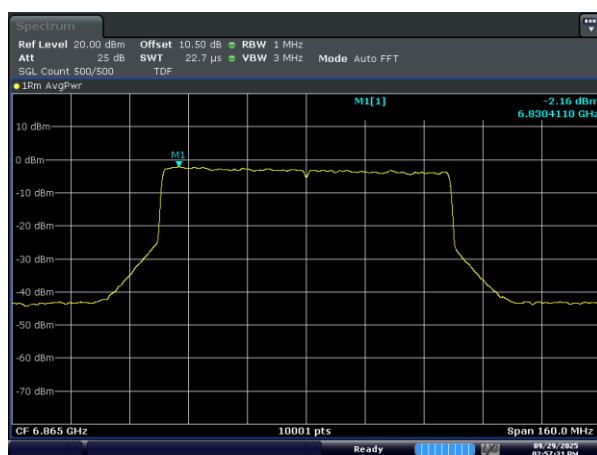
6705MHz



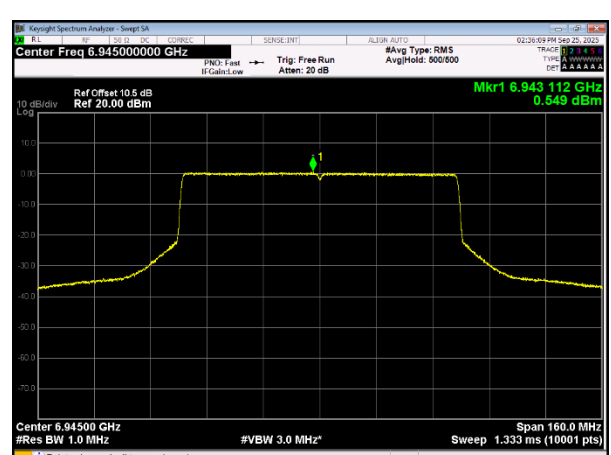
6785MHz



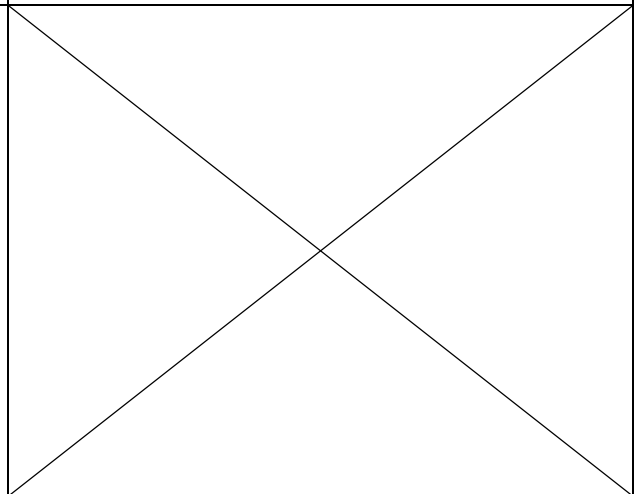
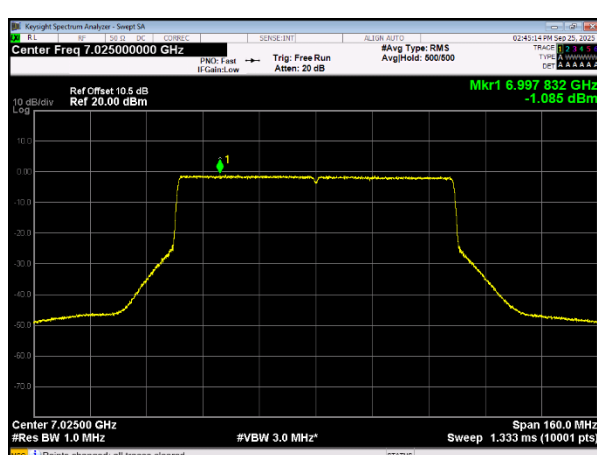
6865MHz



6945MHz

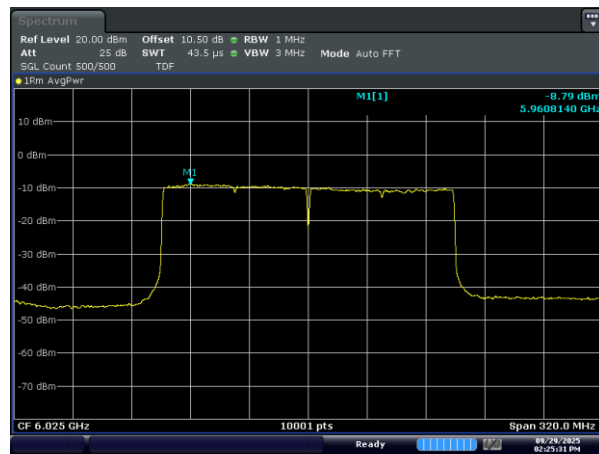


7025MHz

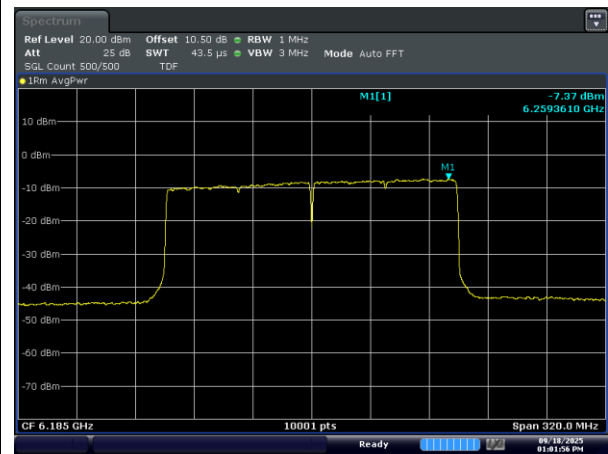


Test mode : 802.11ax(HE160)

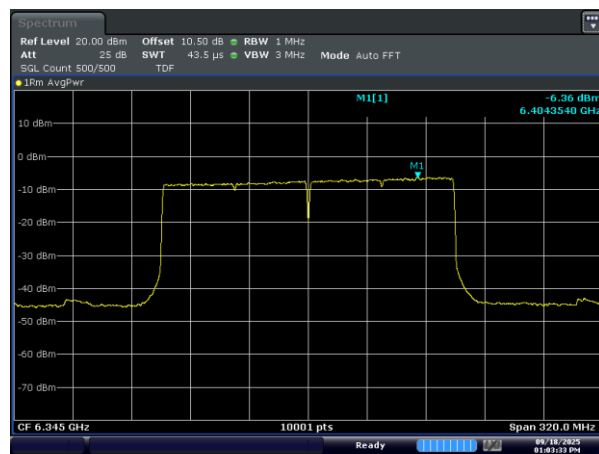
6025MHz



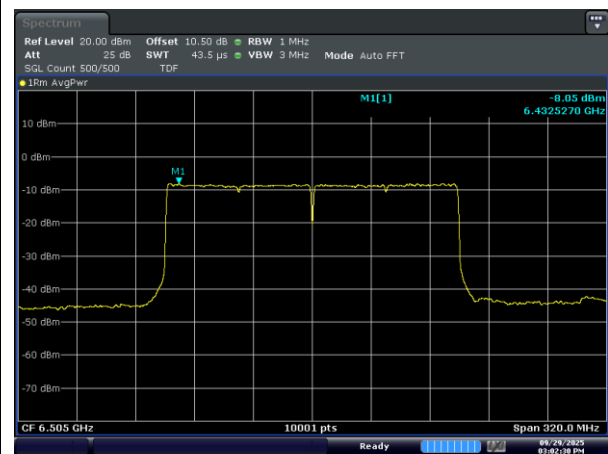
6185MHz



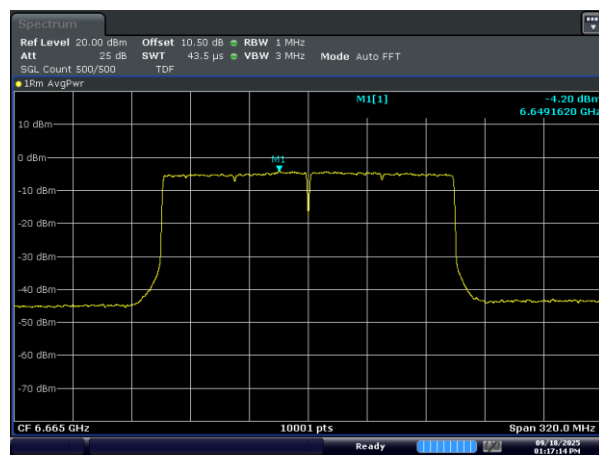
6345MHz



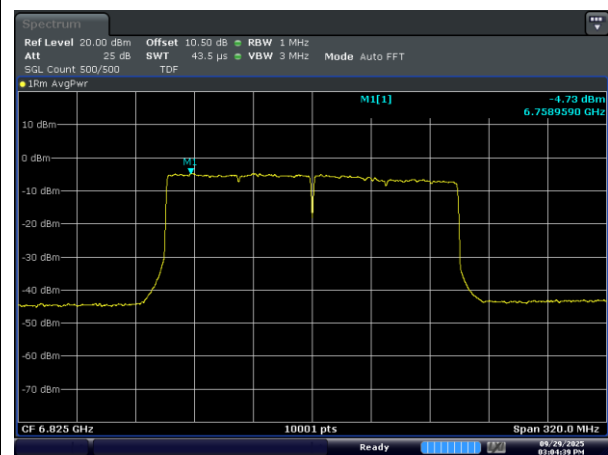
6505MHz



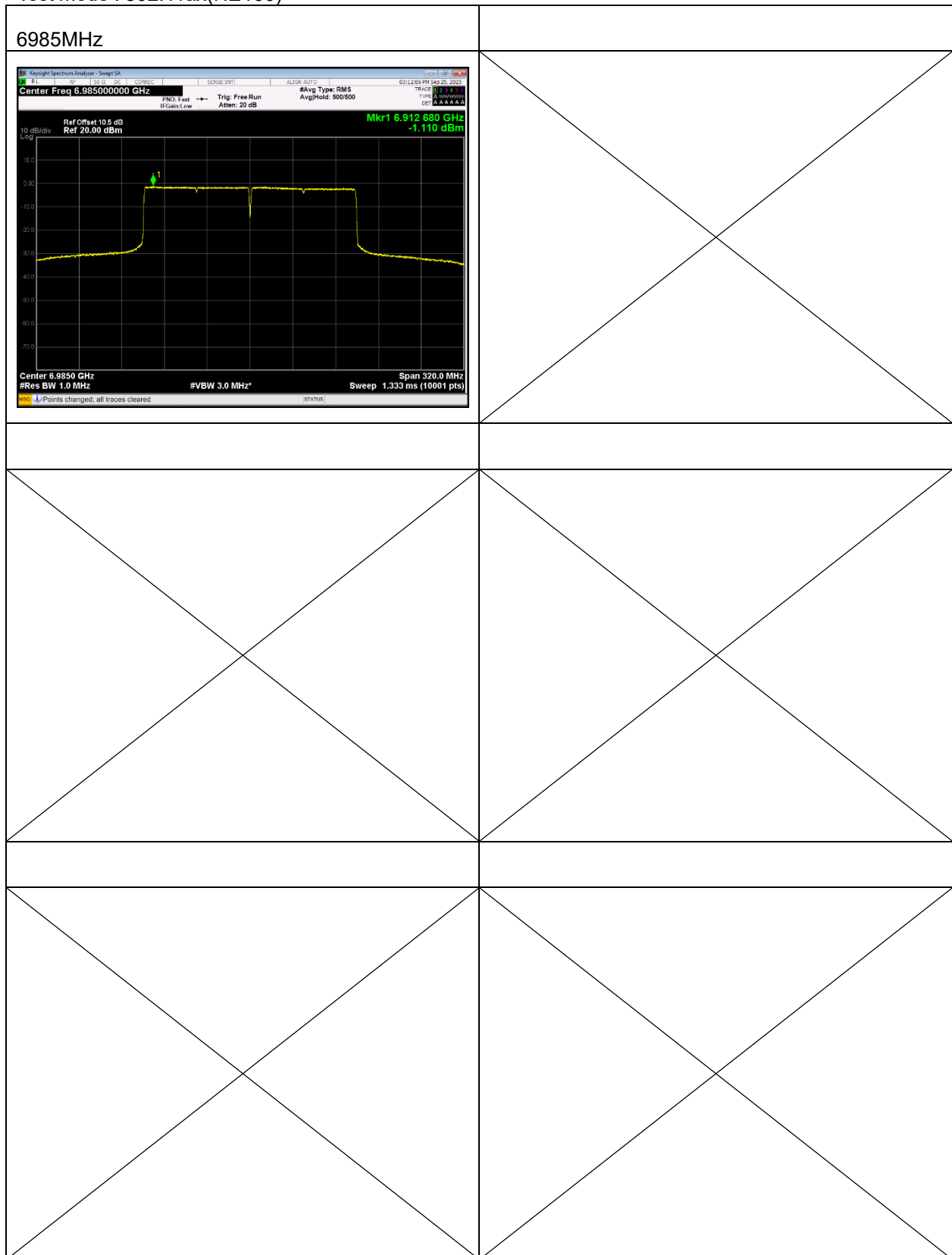
6665MHz



6825MHz

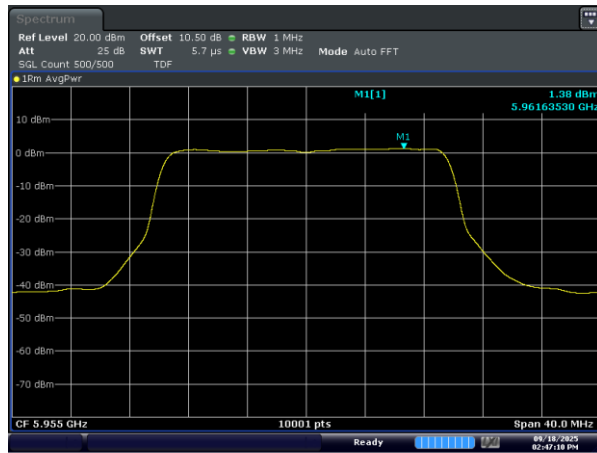


Test mode : 802.11ax(HE160)

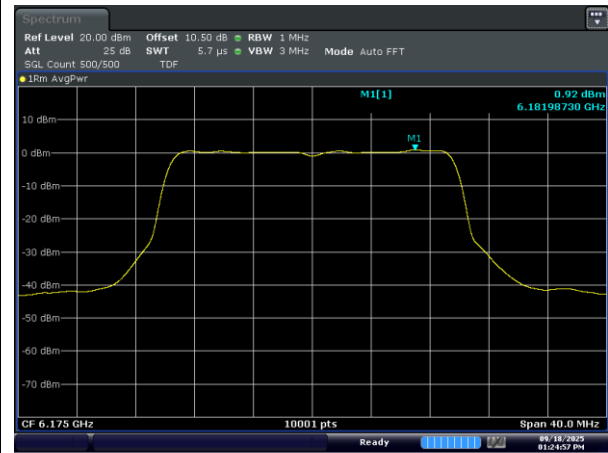


Test mode : 802.11be(EHT20)

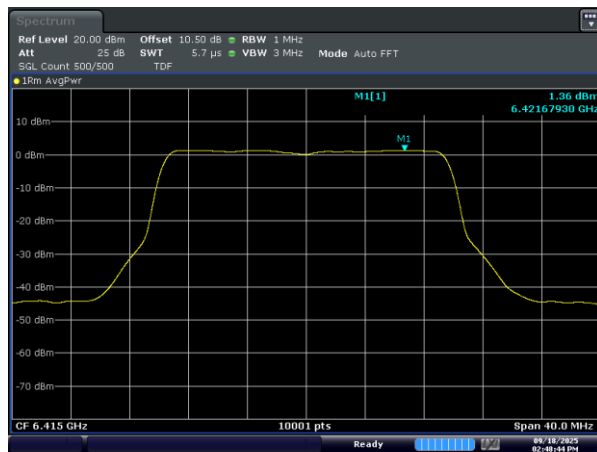
5955MHz



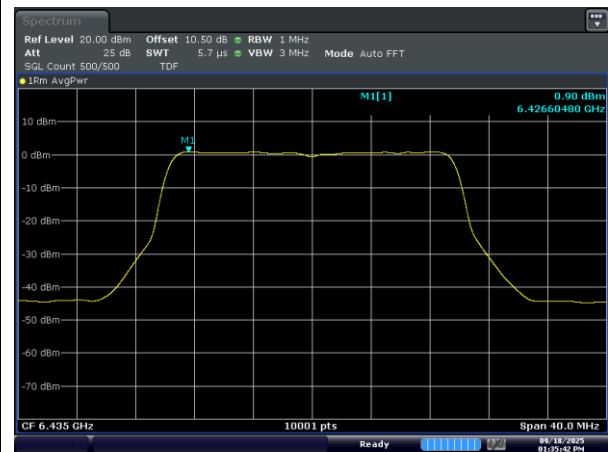
6175MHz



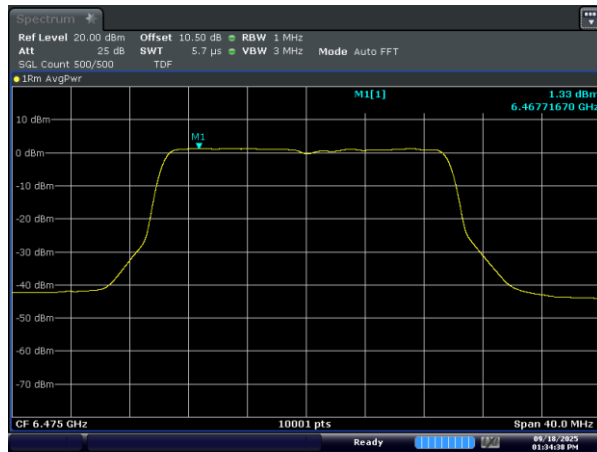
6415MHz



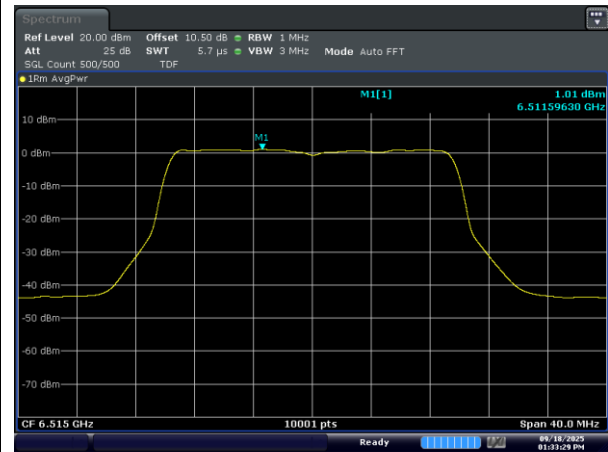
6435MHz



6475MHz

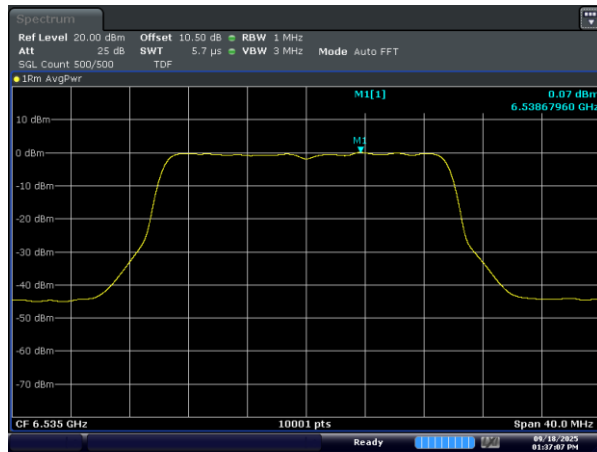


6515MHz

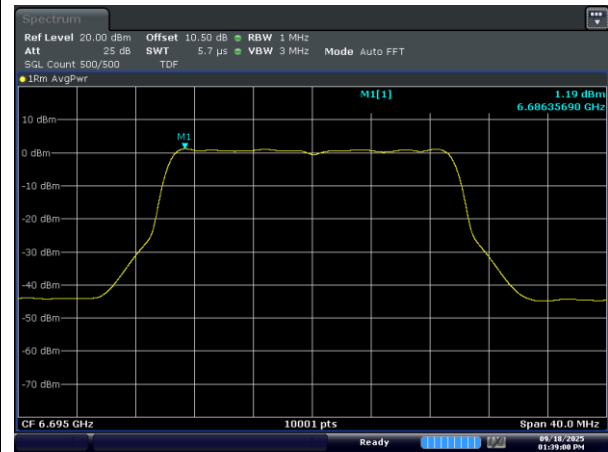


Test mode : 802.11be(EHT20)

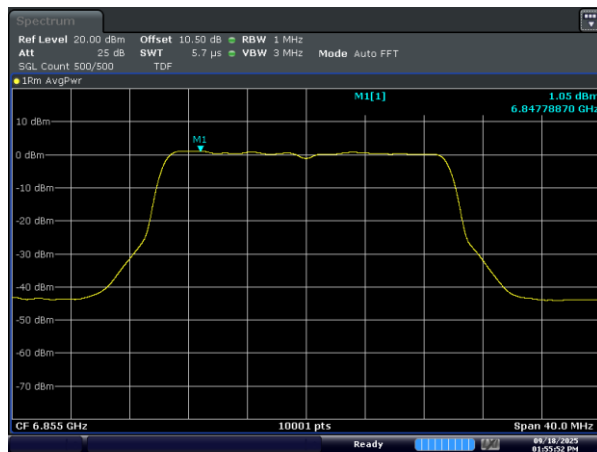
6535MHz



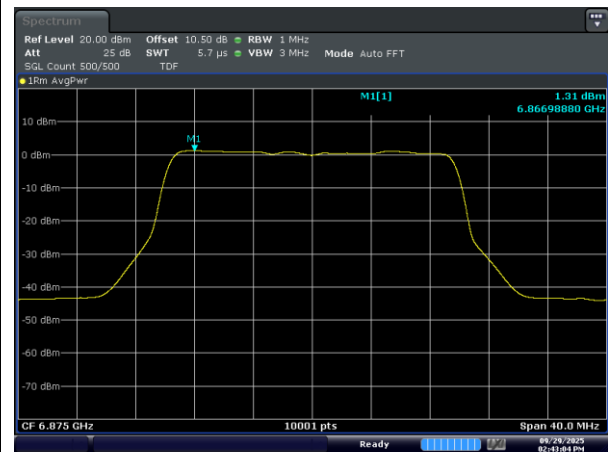
6695MHz



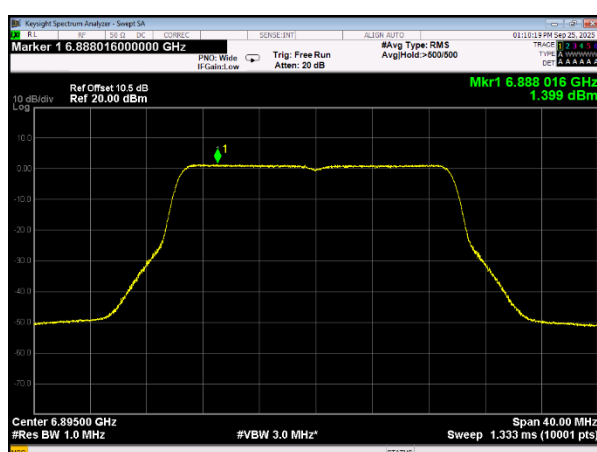
6855MHz



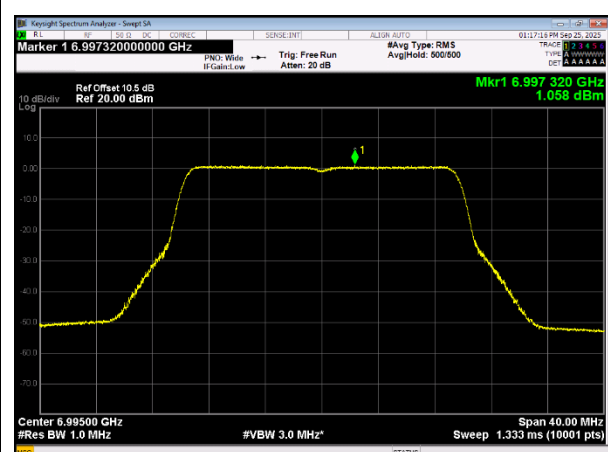
6875MHz



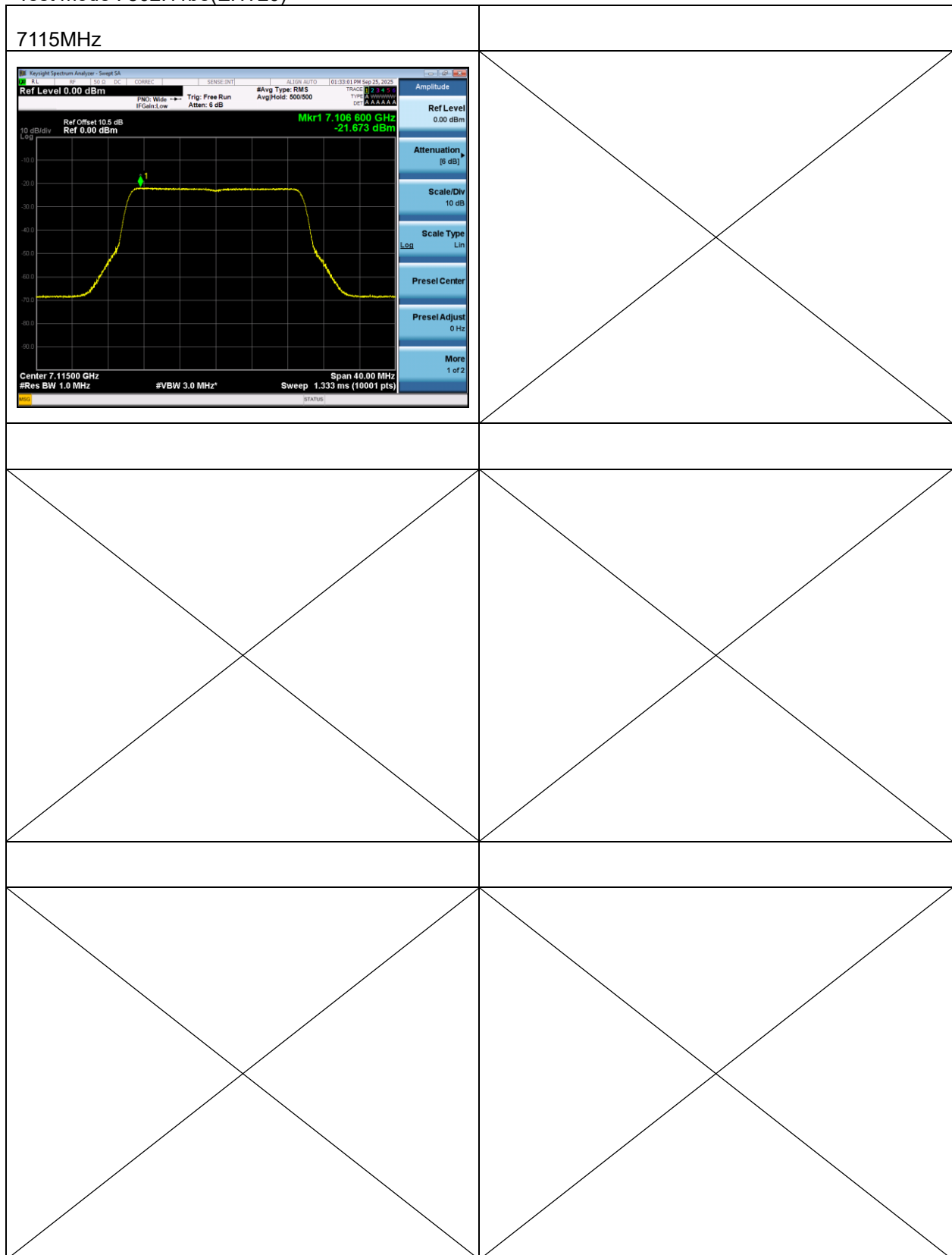
6895MHz



6995MHz

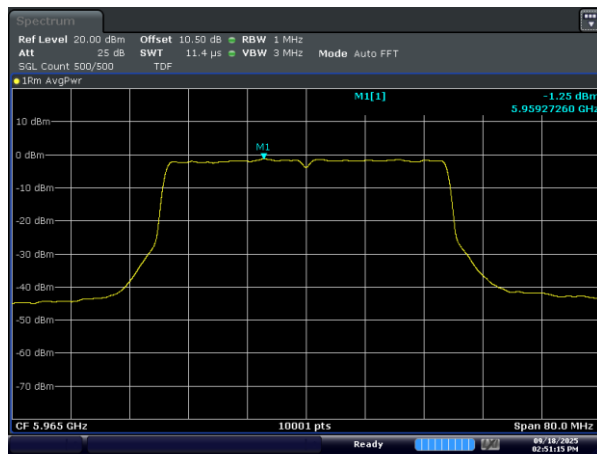


Test mode : 802.11be(EHT20)

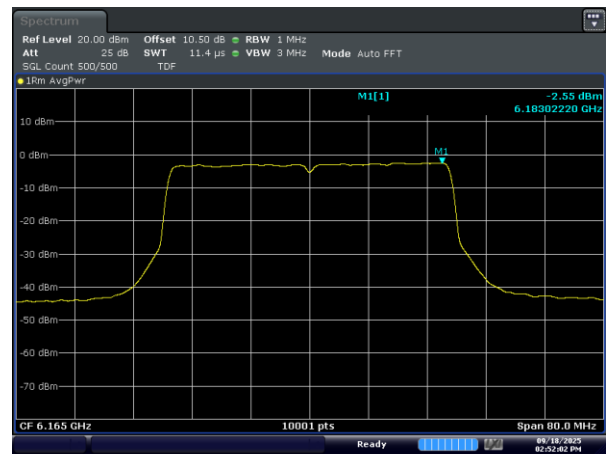


Test mode : 802.11be(EHT40)

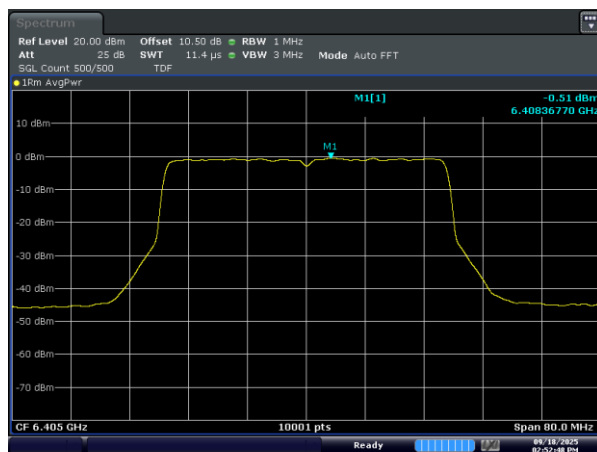
5965MHz



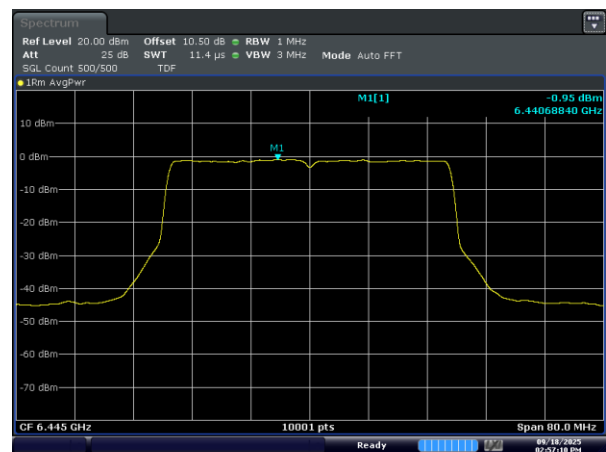
6165MHz



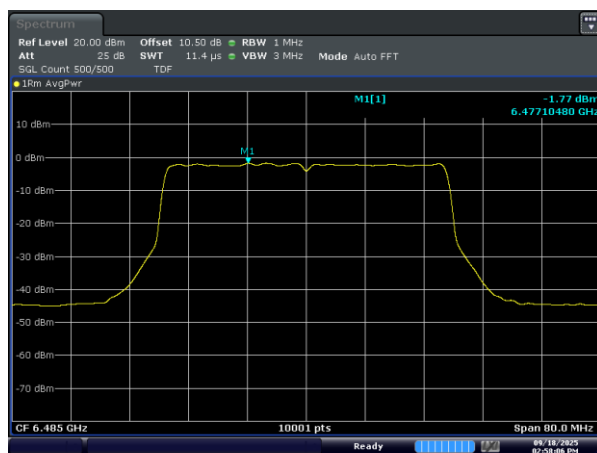
6405MHz



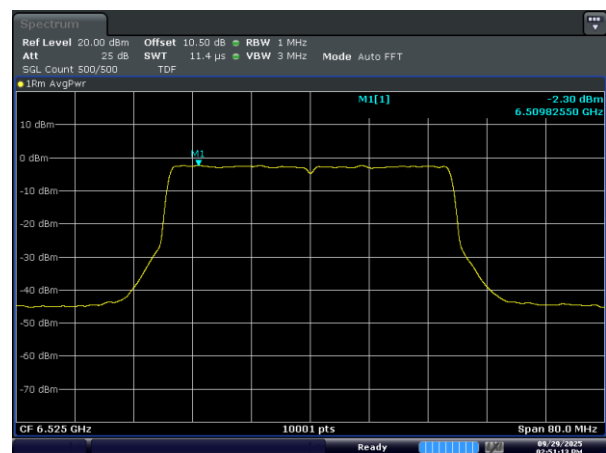
6445MHz



6485MHz

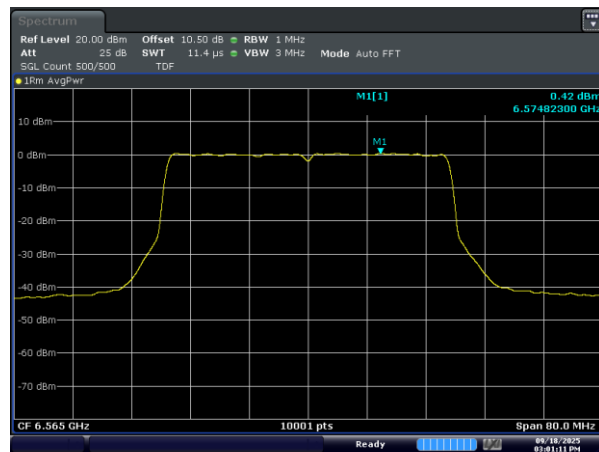


6525MHz

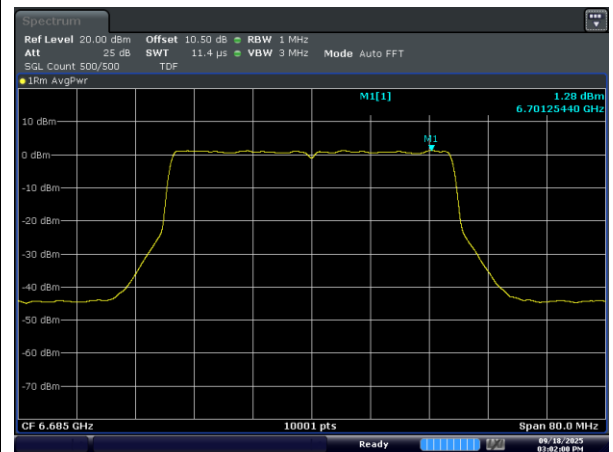


Test mode : 802.11be(EHT40)

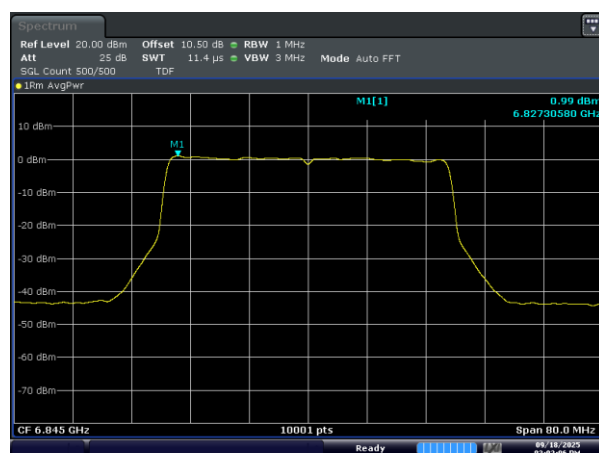
6565MHz



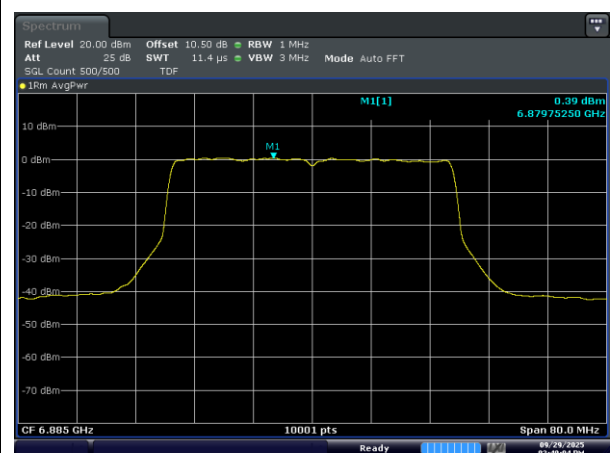
6685MHz



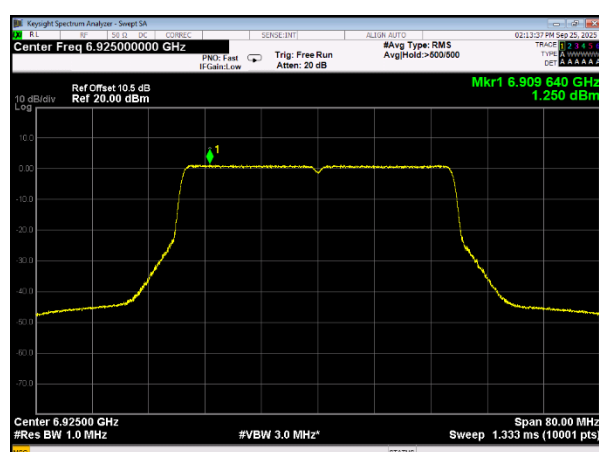
6845MHz



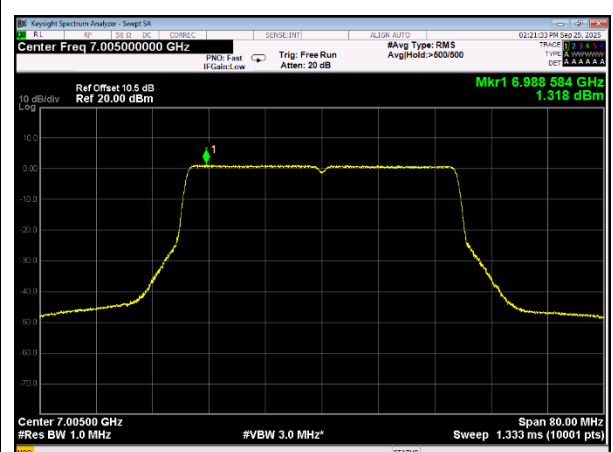
6885MHz



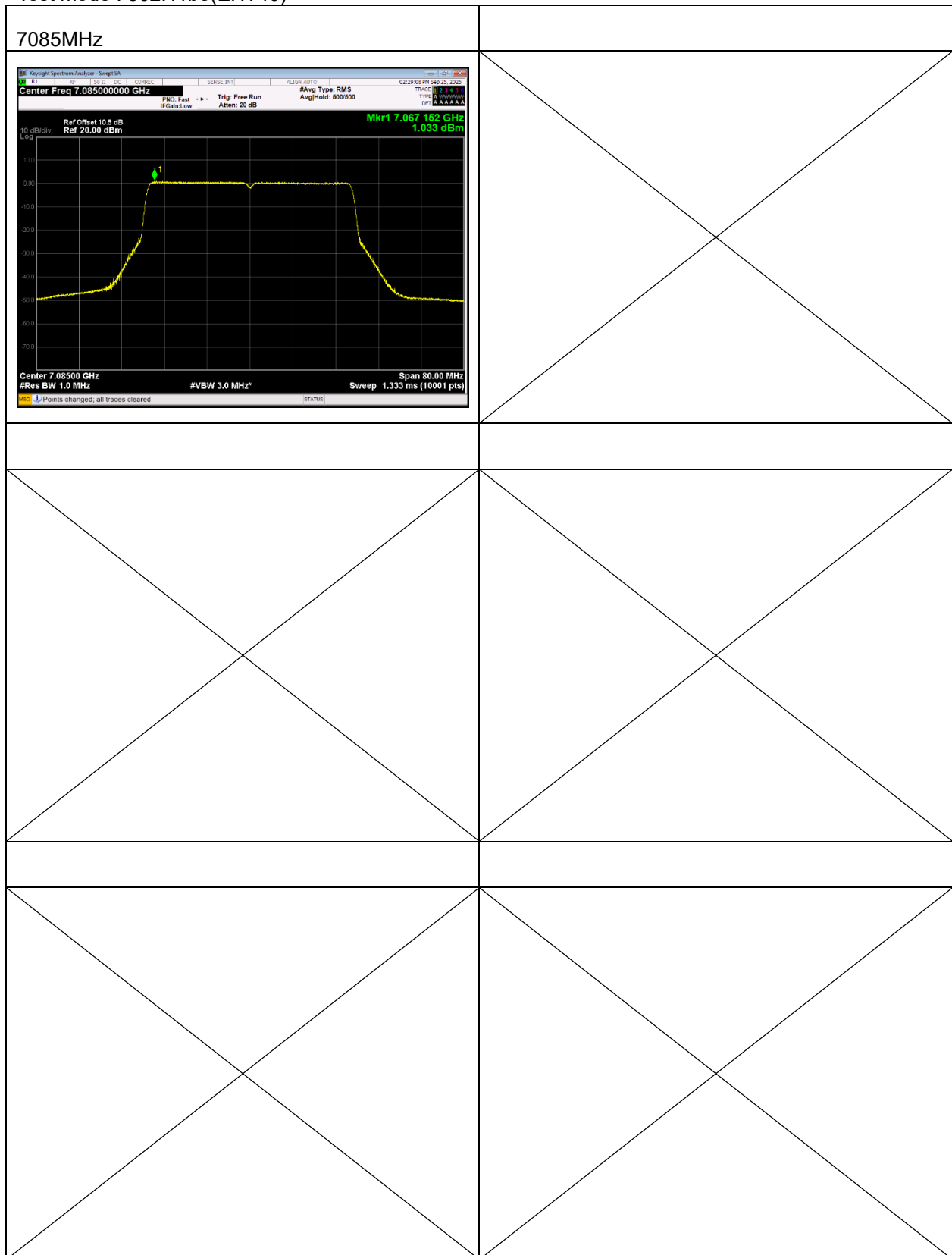
6925MHz



7005MHz

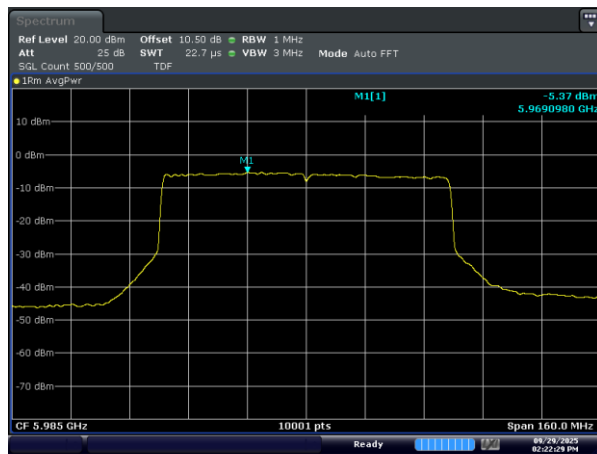


Test mode : 802.11be(EHT40)

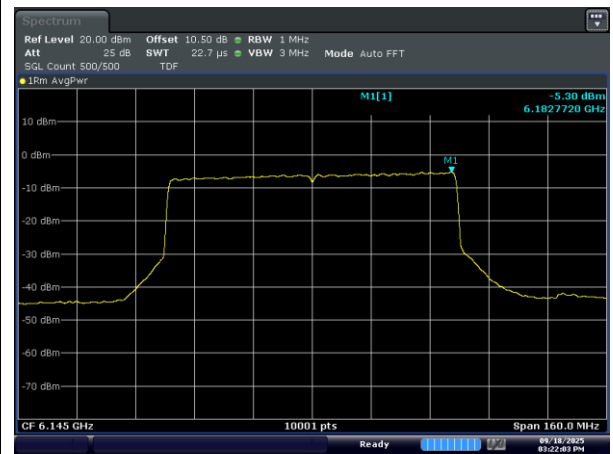


Test mode : 802.11be(EHT80)

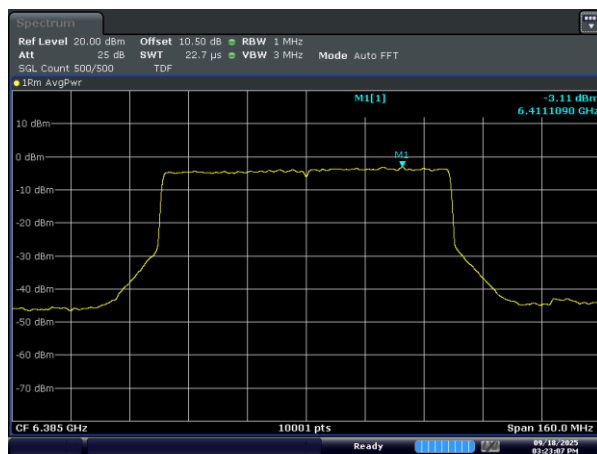
5985MHz



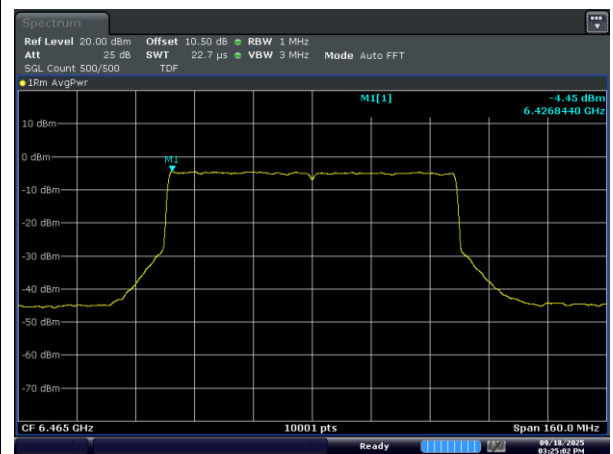
6145MHz



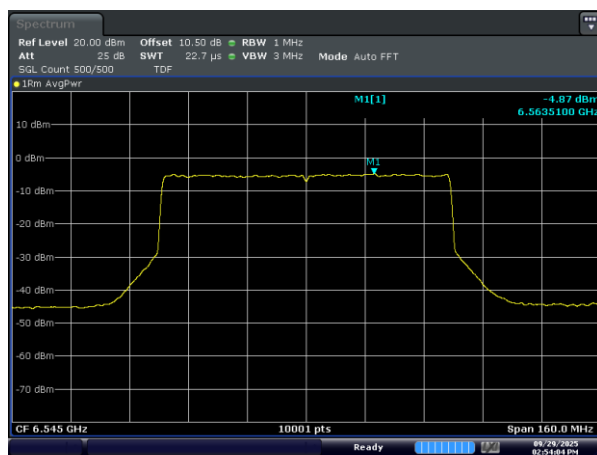
6385MHz



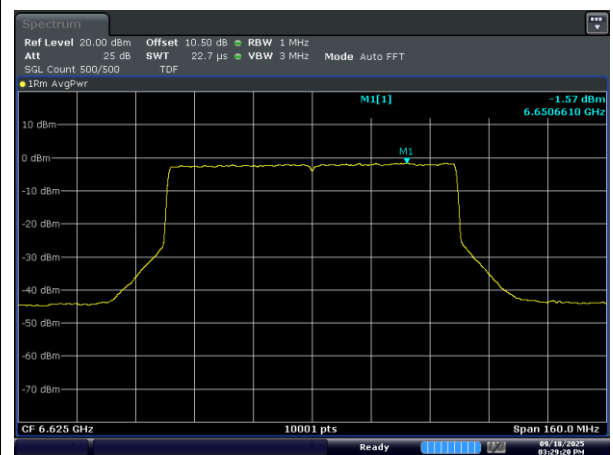
6465MHz



6545MHz

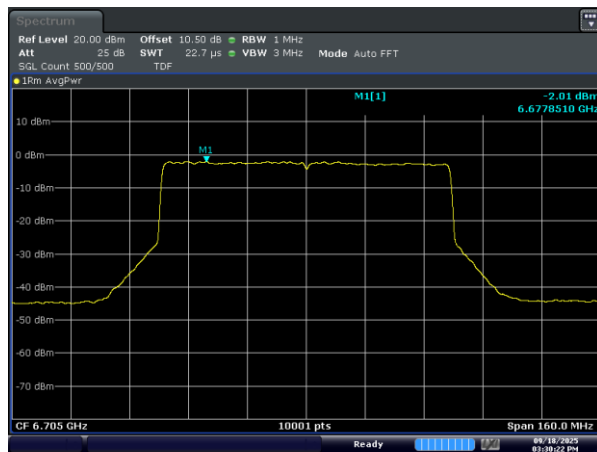


6625MHz

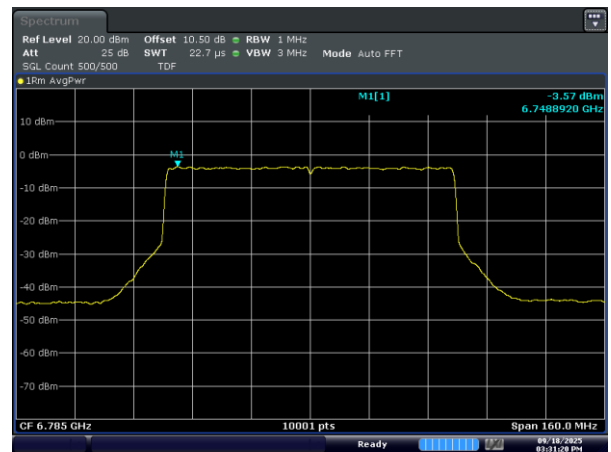


Test mode : 802.11be(EHT80)

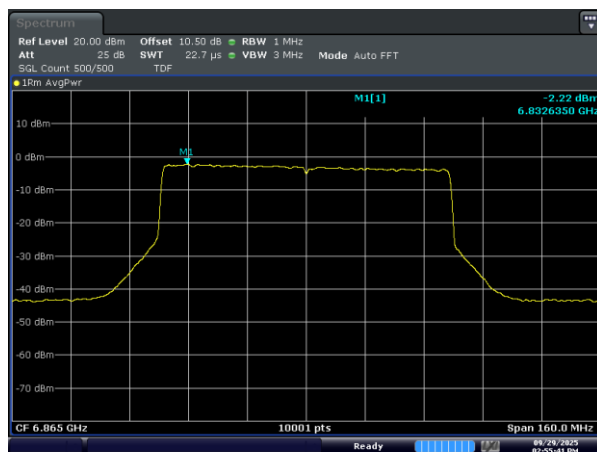
6705MHz



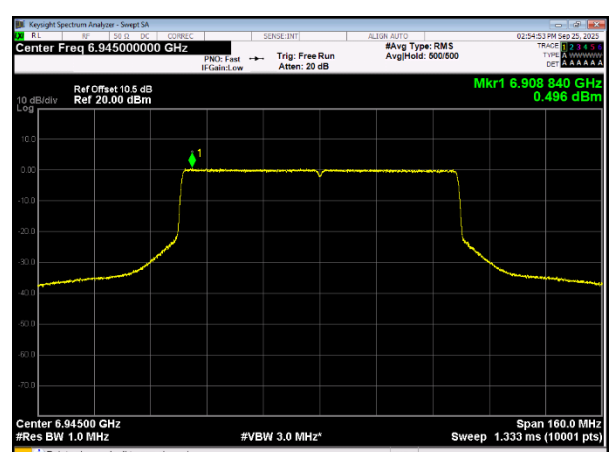
6785MHz



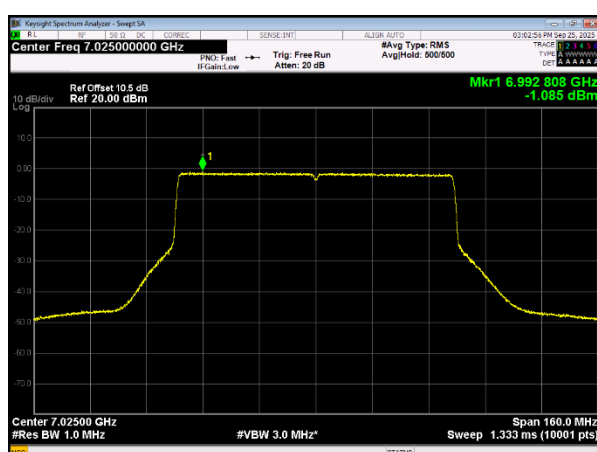
6865MHz



6945MHz

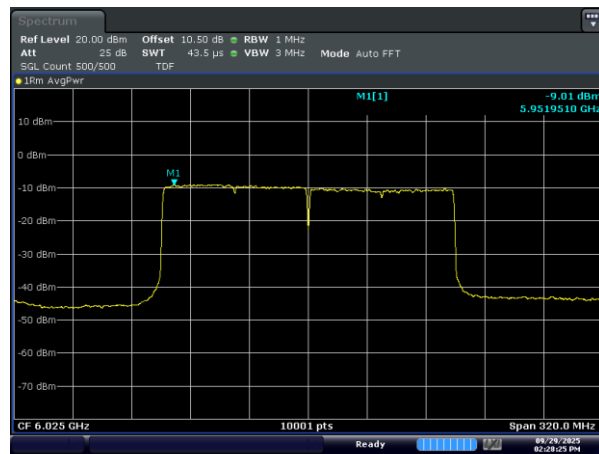


7025MHz

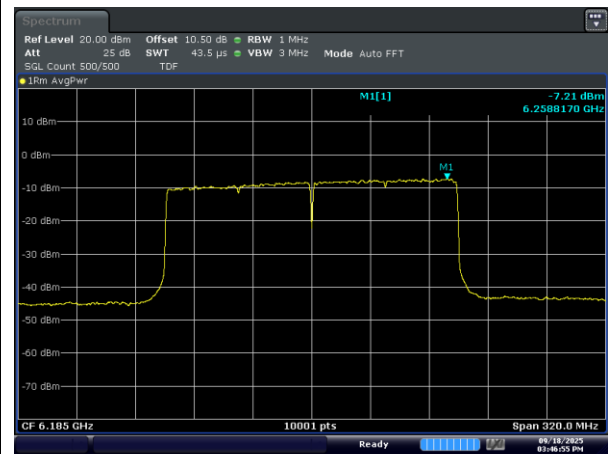


Test mode : 802.11be(EHT160)

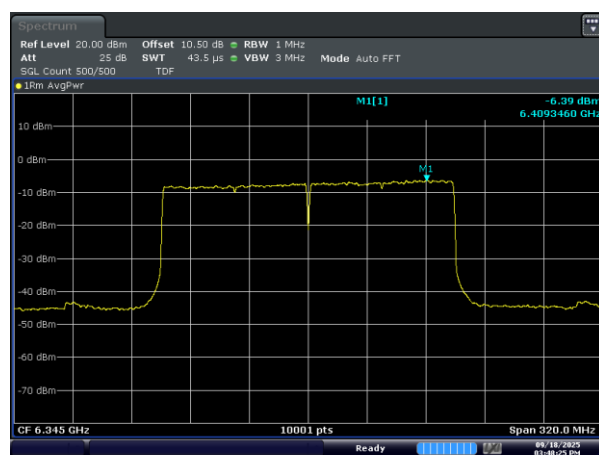
6025MHz



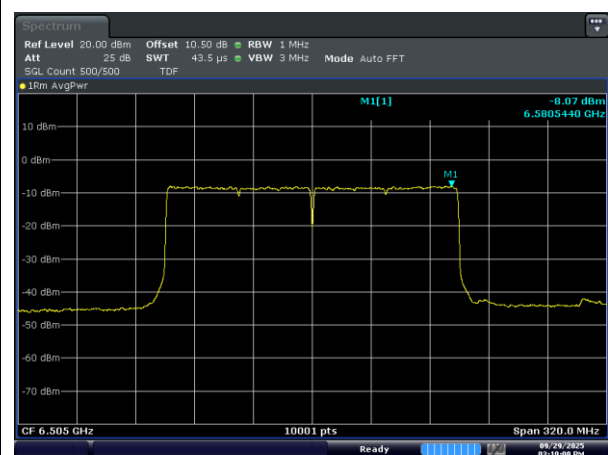
6185MHz



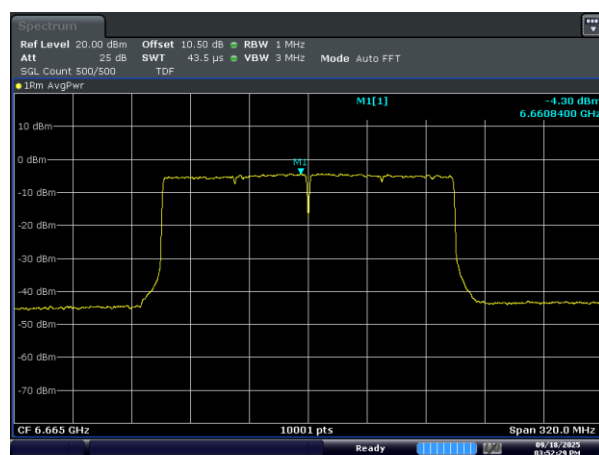
6345MHz



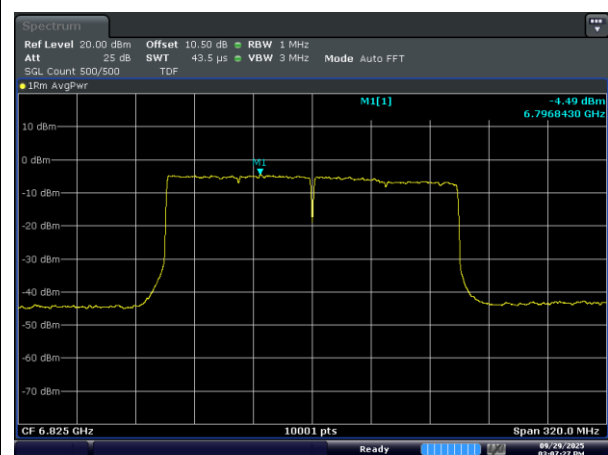
6505MHz



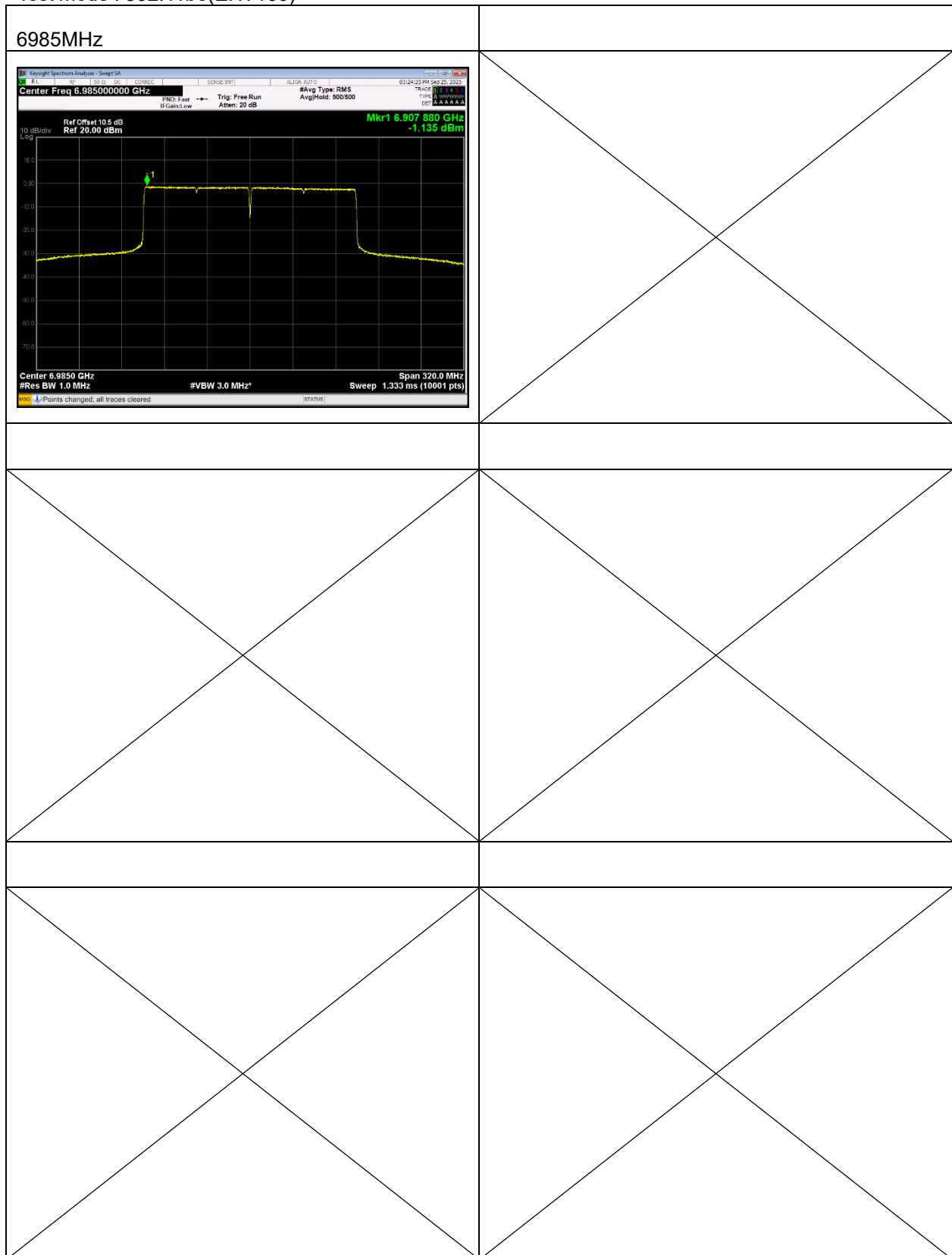
6665MHz



6825MHz



Test mode : 802.11be(EHT160)



4.3.4 Emission Bandwidth

4.3.4.1 Regulation

According to §15.407 (a)(11) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

According to RSS-248 4.4 The occupied bandwidth of an RLAN device shall not exceed 320 MHz.

According to §15.403 Emission bandwidth. For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

According to §RSS-GEN 6.7 The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

4.3.4.2 Measurement Procedure

These test measurement settings are specified in section C,D of 789033 D02 General UNII Test Procedures.

4.3.4.2.1 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%.

4.3.4.2.2 99% Occupied Bandwidth

The following procedure shall be used for measuring (99%) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW ≥ 3 RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

4.3.4.3 Result

Comply (measurement data : refer to the next page)

4.3.4.4 Emission Bandwidth Measurement data

Test mode : 802.11ax(HE20)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	22.08	22.38	22.19
6 425 ~ 6 525	22.06	21.95	22.43
6 525 ~ 6 875	22.08	21.97	22.67
6 875 ~ 7 125	22.86	22.61	22.83
Straddle(6 875)	22.45	-	-

Test mode : 802.11ax(HE40)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	45.07	42.52	43.42
6 425 ~ 6 525	42.27	43.45	-
6 525 ~ 6 875	43.18	41.68	41.61
6 875 ~ 7 125	44.00	44.25	43.47
Straddle(6 525/6 885)	44.87	42.50	-

Test mode : 802.11ax(HE80)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	83.05	84.98	84.89
6 425 ~ 6 525	85.93	-	-
6 525 ~ 6 875	84.41	86.39	88.39
6 875 ~ 7 125	91.86	90.31	-
Straddle(6 545/6 865)	84.92	86.04	-

Test mode : 802.11ax(HE160)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	169.20	165.17	165.78
6 425 ~ 6 525	-	-	-
6 525 ~ 6 875	169.10	-	-
6 875 ~ 7 125	173.01	-	-
Straddle(6 505/6 825)	171.50	164.78	-

Test mode : 802.11be(EHT20)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	22.17	21.91	22.44
6 425 ~ 6 525	22.58	22.13	22.44
6 525 ~ 6 875	22.45	22.57	21.79
6 875 ~ 7 125	22.97	22.64	22.80
Straddle(6 875)	22.04	-	-

Test mode : 802.11be(EHT40)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	41.40	43.17	44.35
6 425 ~ 6 525	42.51	43.23	-
6 525 ~ 6 875	43.36	43.06	42.80
6 875 ~ 7 125	43.58	45.03	43.50
Straddle(6 525/6 885)	42.67	42.60	-

Test mode : 802.11be(EHT80)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	86.42	85.98	84.12
6 425 ~ 6 525	84.94	-	-
6 525 ~ 6 875	85.22	87.66	84.76
6 875 ~ 7 125	87.25	89.04	-
Straddle(6 545/6 865)	86.10	88.87	-

Test mode : 802.11be(EHT160)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	165.62	167.98	167.86
6 425 ~ 6 525	-	-	-
6 525 ~ 6 875	164.18	-	-
6 875 ~ 7 125	173.70	-	-
Straddle(6 505/6 825)	165.94	168.50	-

4.3.4.5 99% Occupied bandwidth Measurement data

Test mode : 802.11ax(HE20)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	19.08	19.11	19.09
6 425 ~ 6 525	19.12	19.07	19.07
6 525 ~ 6 875	19.03	19.06	19.10
6 875 ~ 7 125	19.12	19.19	19.11
Straddle(6 875)	19.15	-	-

Test mode : 802.11ax(HE40)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	37.85	37.96	37.90
6 425 ~ 6 525	38.00	37.96	-
6 525 ~ 6 875	37.94	38.03	37.98
6 875 ~ 7 125	38.00	38.06	38.09
Straddle(6 525/6 885)	37.88	38.04	-

Test mode : 802.11ax(HE80)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	77.37	77.67	77.69
6 425 ~ 6 525	77.59	-	-
6 525 ~ 6 875	77.66	77.48	77.67
6 875 ~ 7 125	77.87	77.72	-
Straddle(6 545/6 865)	77.62	77.64	-

Test mode : 802.11ax(HE160)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	157.17	156.66	157.07
6 425 ~ 6 525	-	-	-
6 525 ~ 6 875	156.40	-	-
6 875 ~ 7 125	157.39	-	-
Straddle(6 505/6 825)	156.98	156.94	-

Test mode : 802.11be(EHT20)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	19.11	19.22	19.03
6 425 ~ 6 525	19.07	19.05	19.12
6 525 ~ 6 875	19.17	19.05	19.17
6 875 ~ 7 125	19.15	19.12	19.13
Straddle(6 875)	19.28	-	-

Test mode : 802.11be(EHT40)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	37.92	37.97	38.02
6 425 ~ 6 525	38.07	38.11	-
6 525 ~ 6 875	37.92	38.03	38.03
6 875 ~ 7 125	38.07	38.03	38.05
Straddle(6 525/6 885)	38.01	38.05	

Test mode : 802.11be(EHT80)

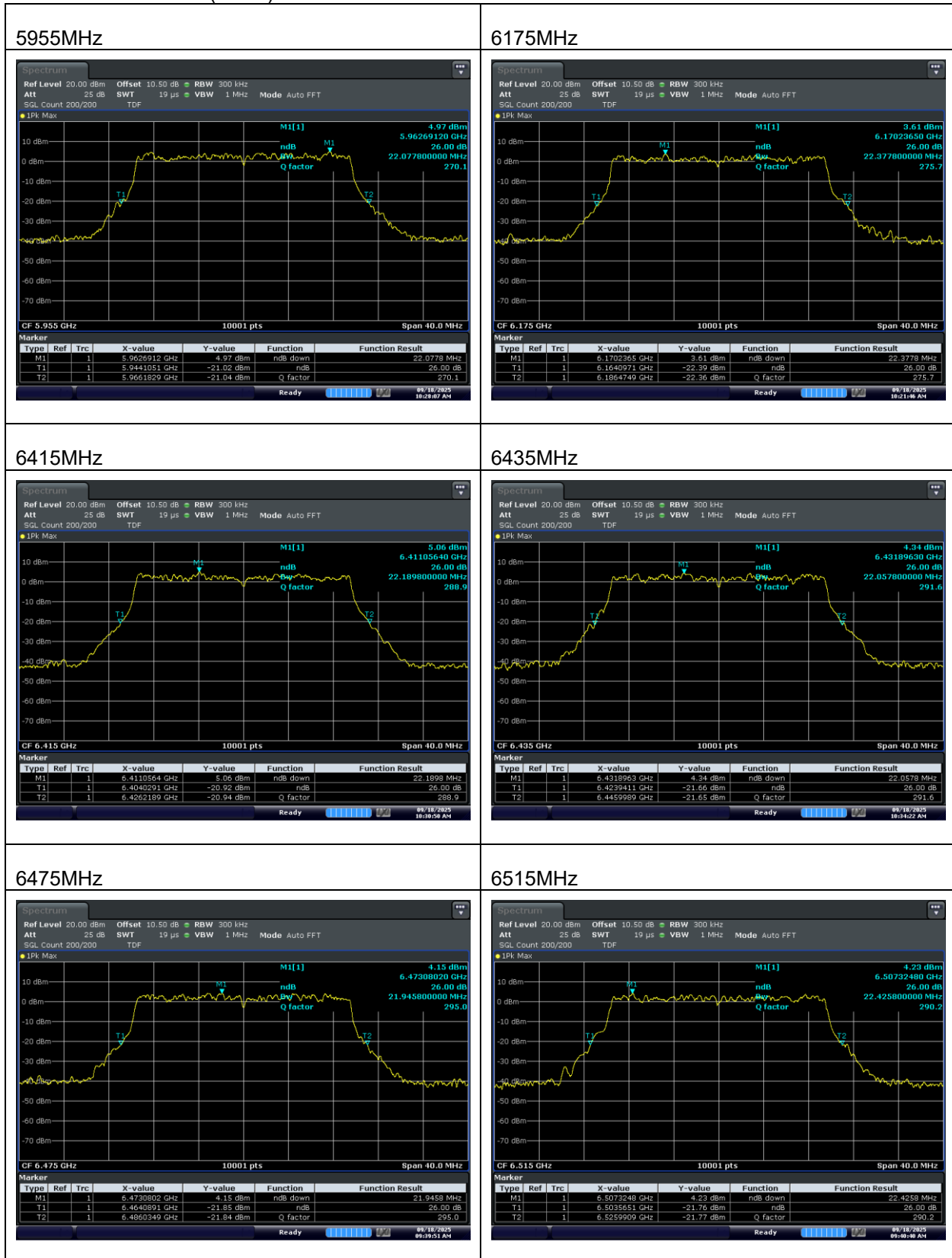
Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	77.64	77.66	77.74
6 425 ~ 6 525	77.96	-	-
6 525 ~ 6 875	77.67	77.66	77.88
6 875 ~ 7 125	77.83	77.89	-
Straddle(6 545/6 865)	77.51	77.82	-

Test mode : 802.11be(EHT160)

Band (MHz)	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5 925 ~ 6 425	157.14	156.66	156.98
6 425 ~ 6 525	-	-	-
6 525 ~ 6 875	157.07	-	-
6 875 ~ 7 125	157.43	-	-
Straddle(6 505/6 825)	156.91	156.46	-

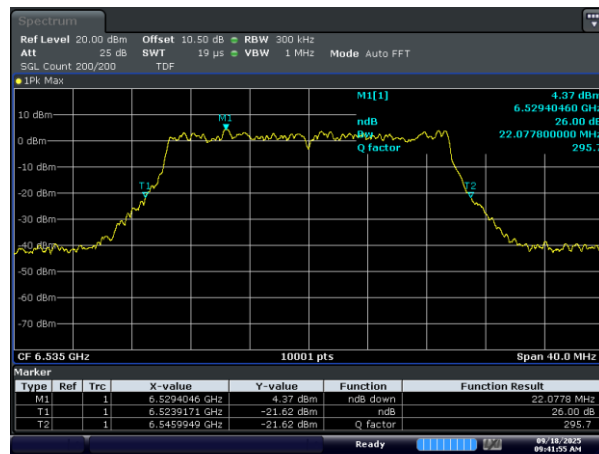
4.3.4.6 Emission Bandwidth Test Plot

Test mode : 802.11ax(HE20)

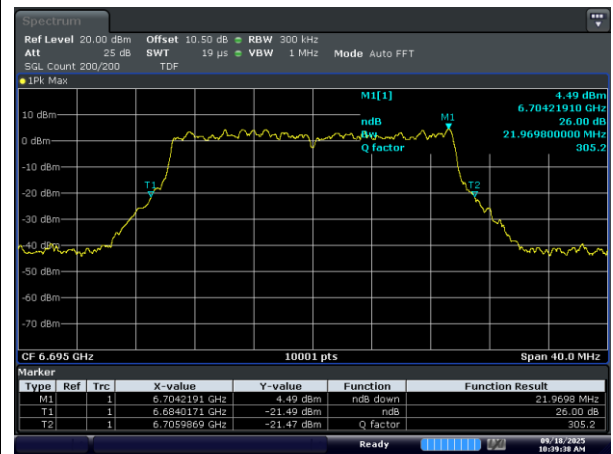


Test mode : 802.11ax(HE20)

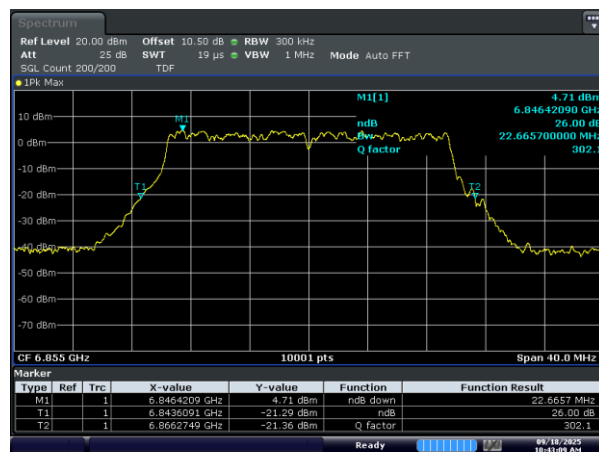
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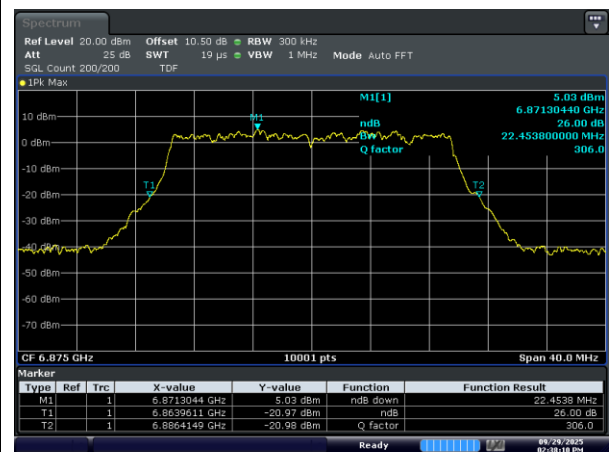
6695MHz



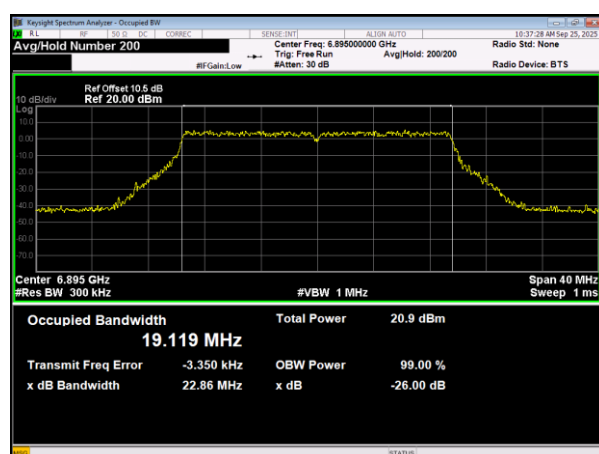
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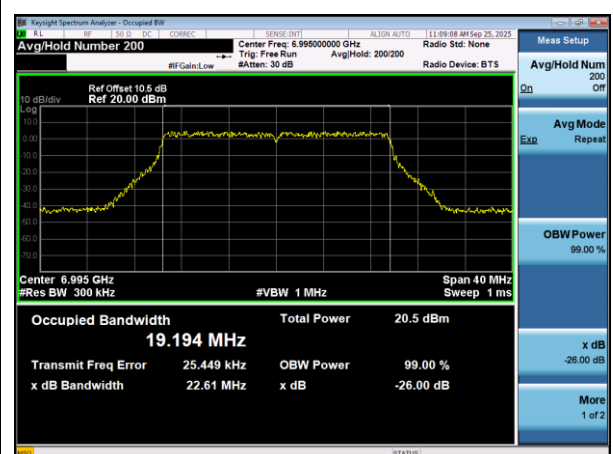
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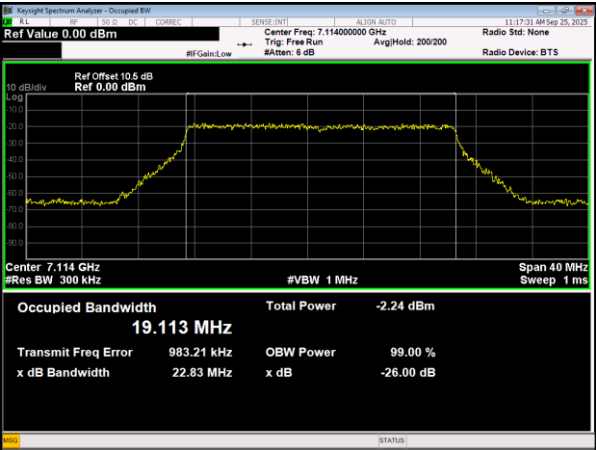
6895MHz



6995MHz



Test mode : 802.11ax(HE20)

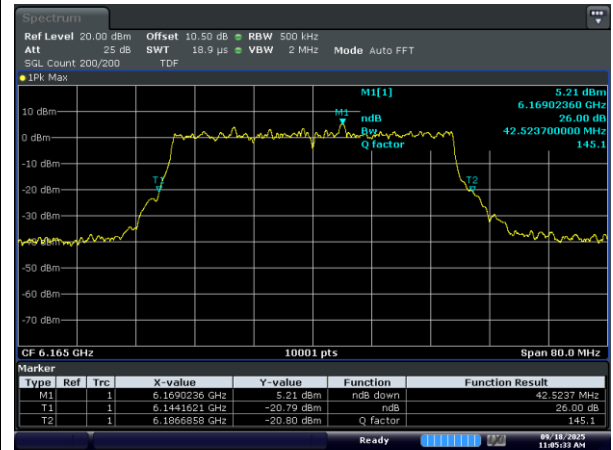
7115MHz 	

Test mode : 802.11ax(HE40)

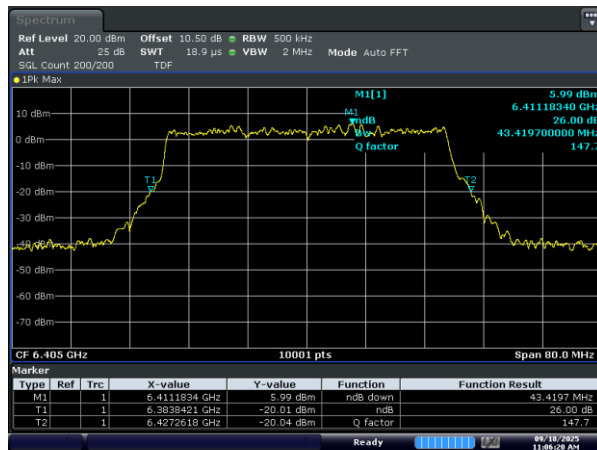
5965MHz



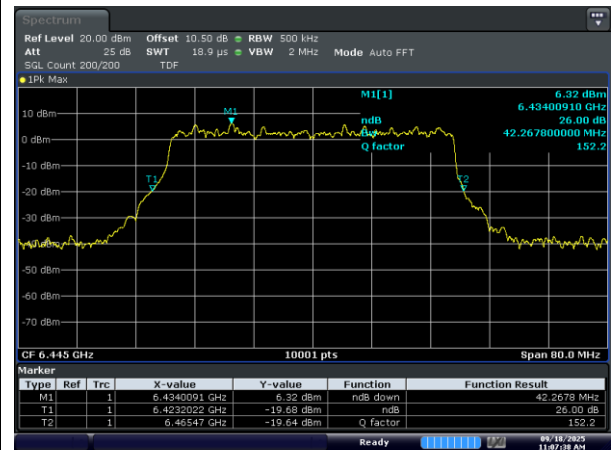
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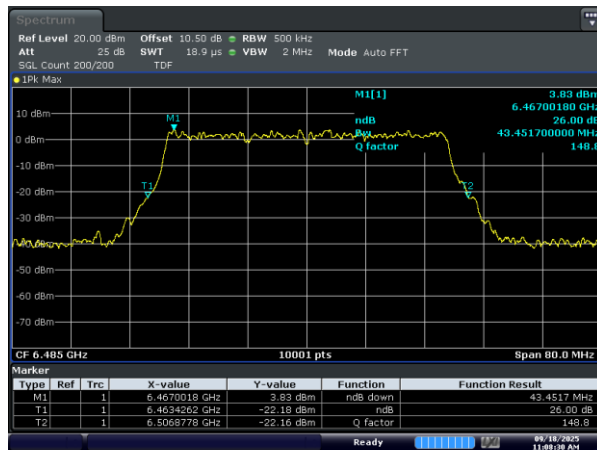
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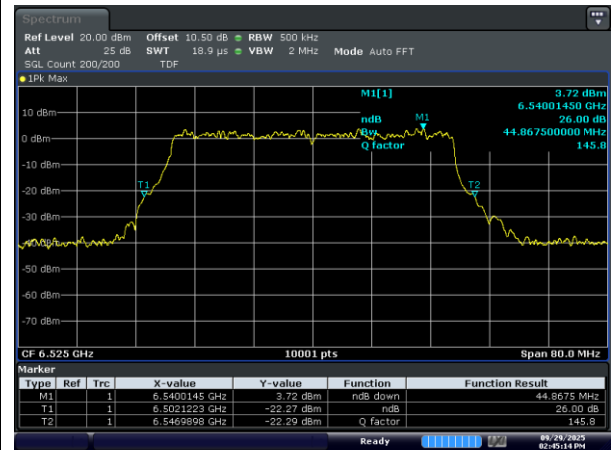
6445MHz



6485MHz



6525MHz

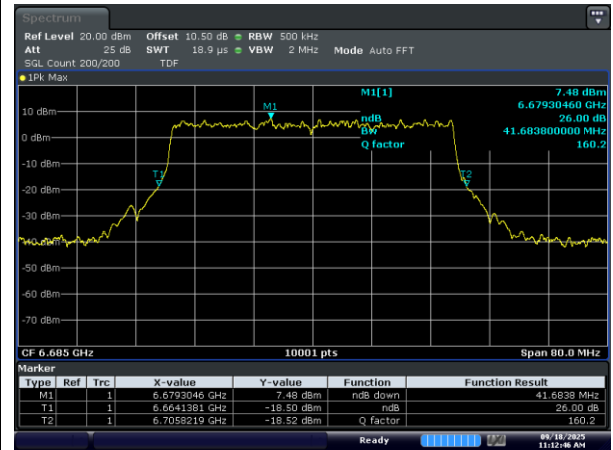


Test mode : 802.11ax(HE40)

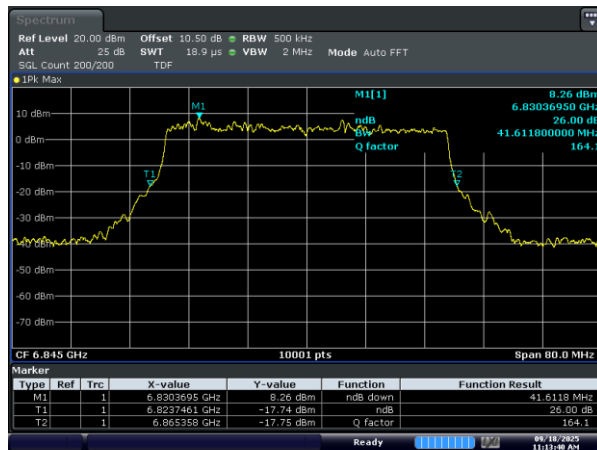
6565MHz



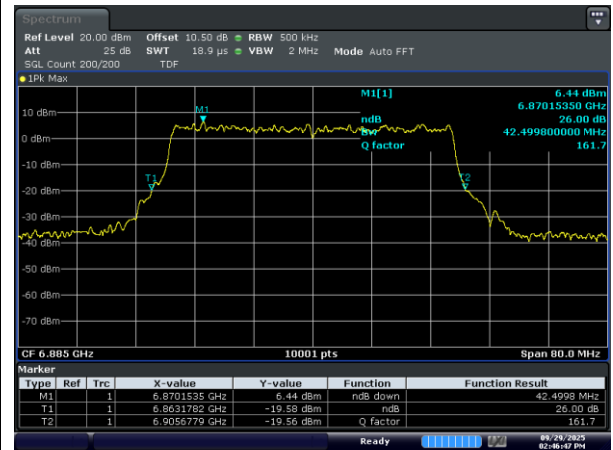
6685MHz



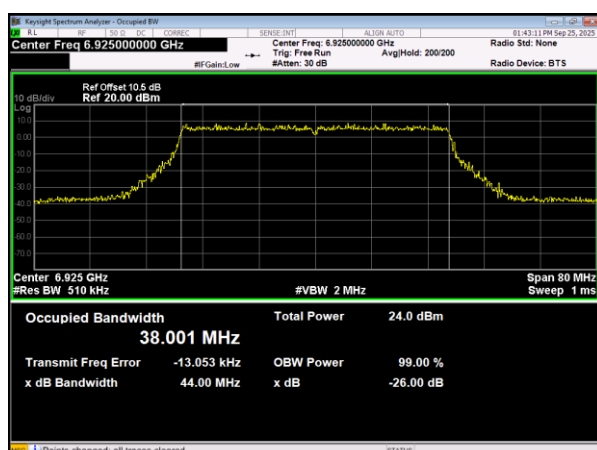
6845MHz



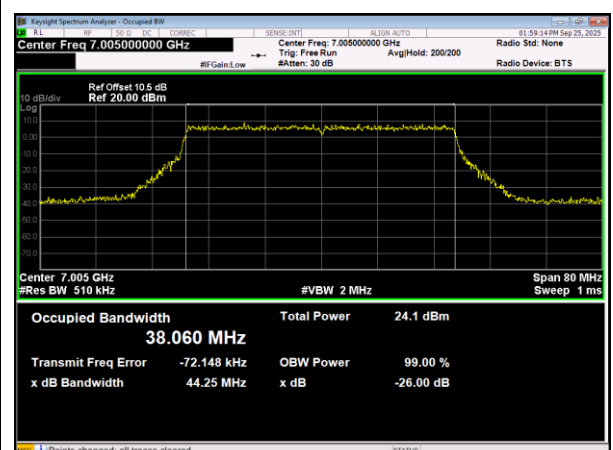
6885MHz



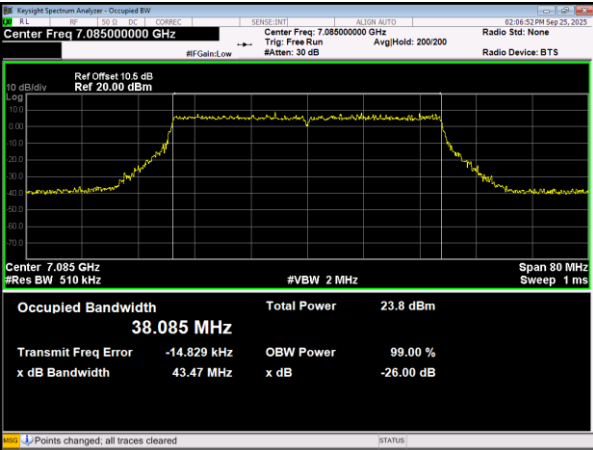
6925MHz



7005MHz

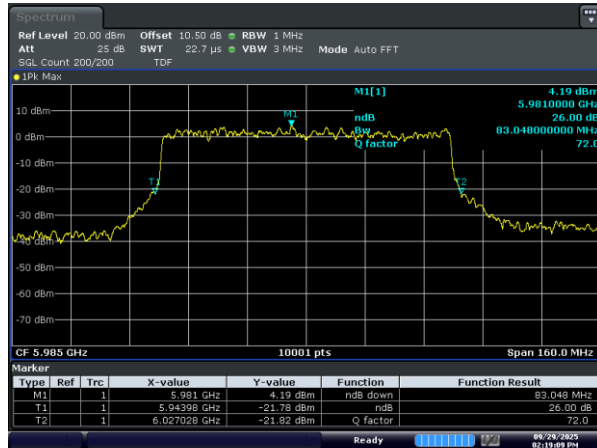


Test mode : 802.11ax(HE40)

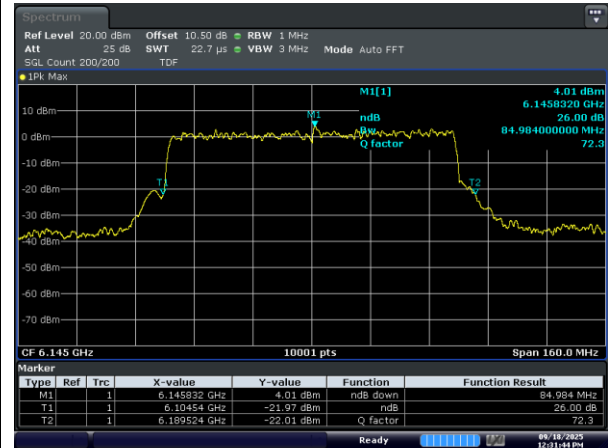
7085MHz 	

Test mode : 802.11ax(HE80)

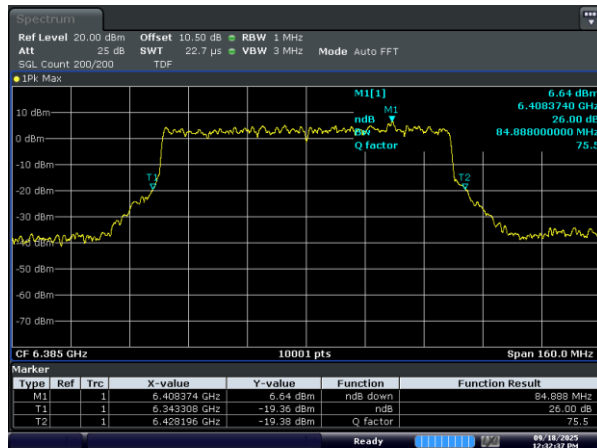
5985MHz



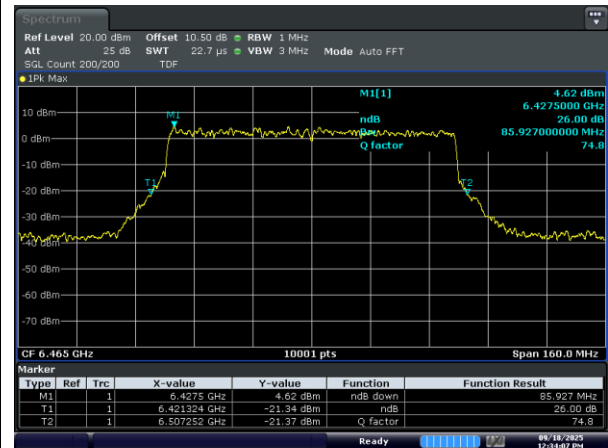
6145MHz



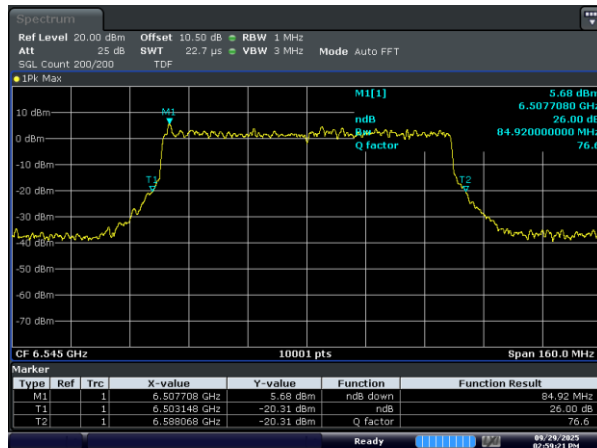
6385MHz



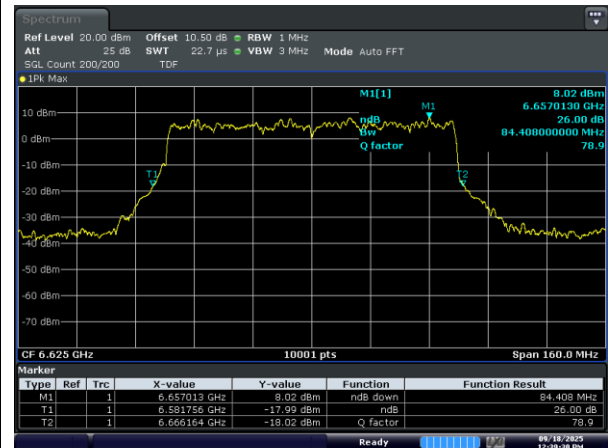
6465MHz



6545MHz

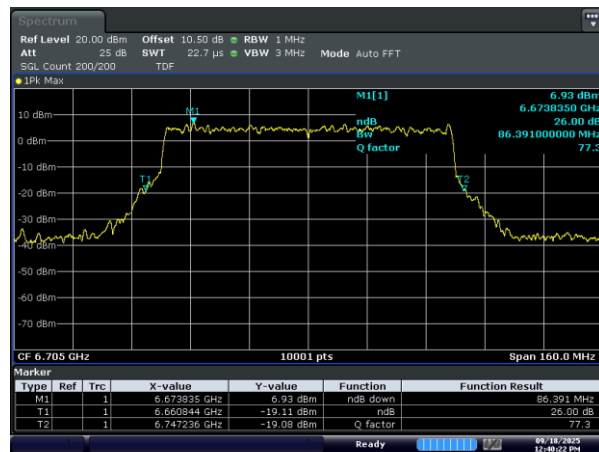


6625MHz

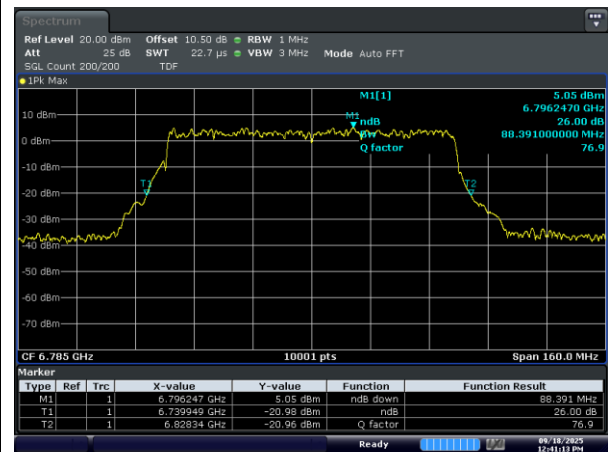


Test mode : 802.11ax(HE80)

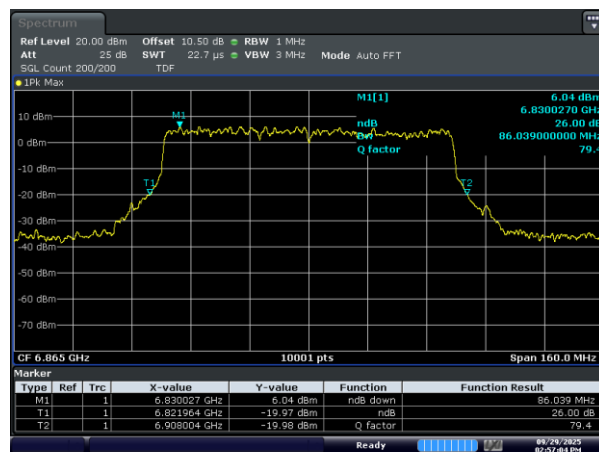
6705MHz



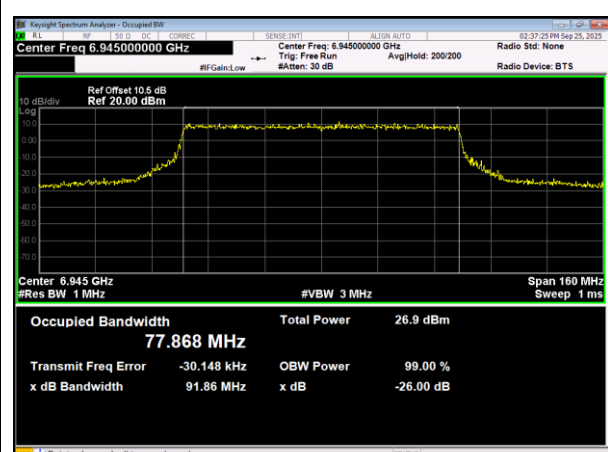
6785MHz



6865MHz



6945MHz



7025MHz

