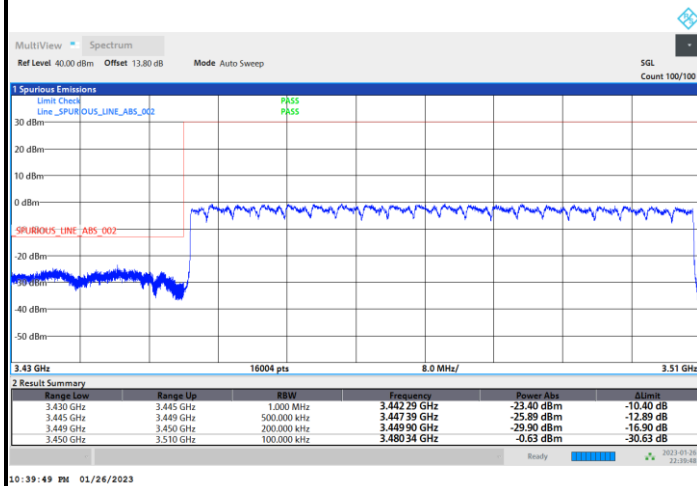


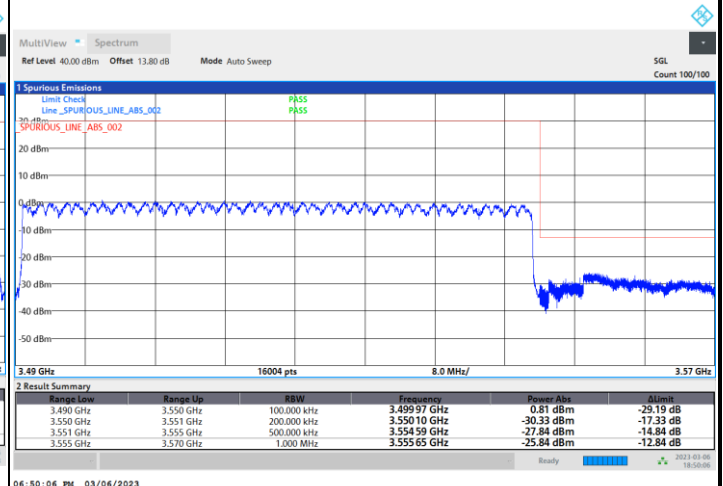


FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

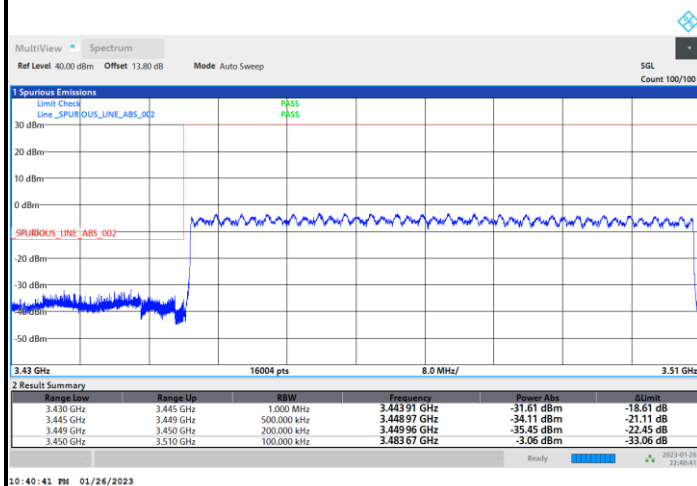


Highest Band Edge / Full RB

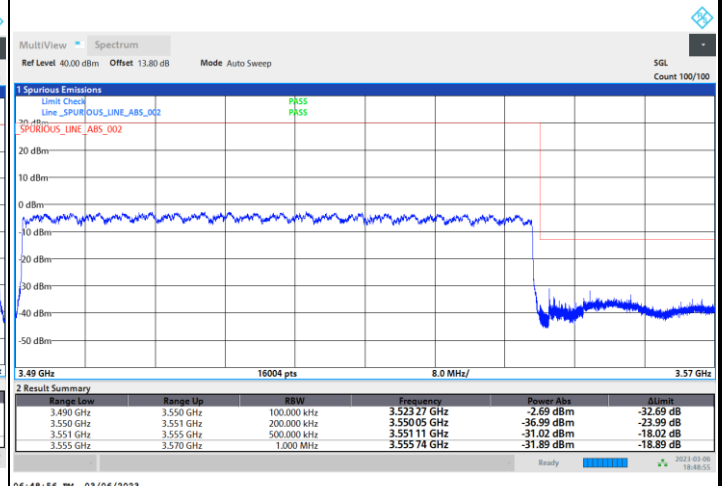


FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



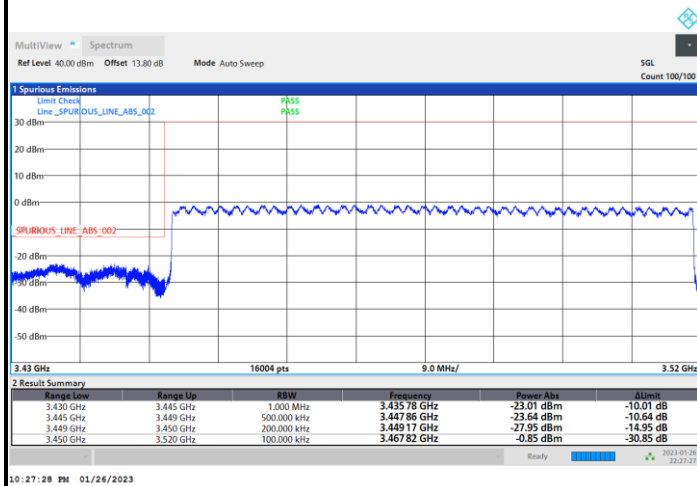
Highest Band Edge / Full RB



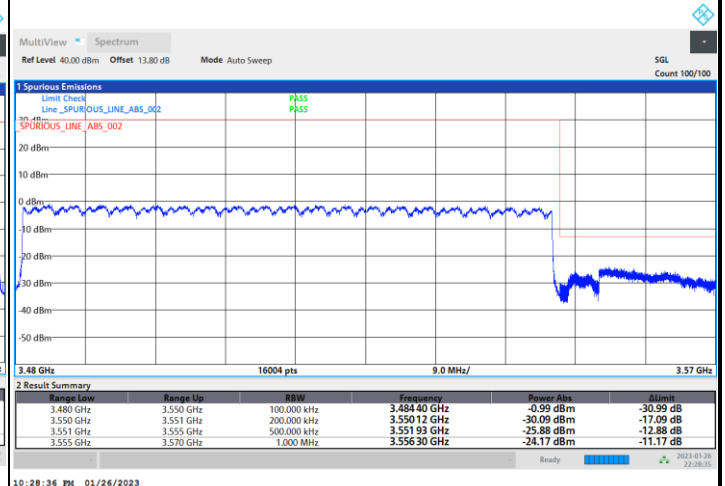


FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

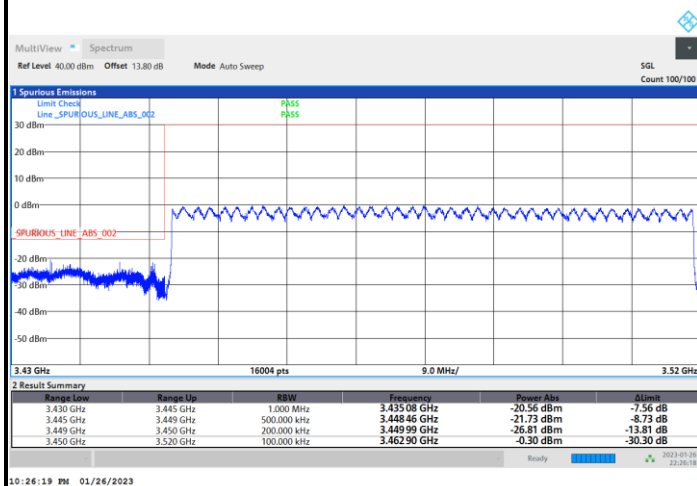


Highest Band Edge / Full RB

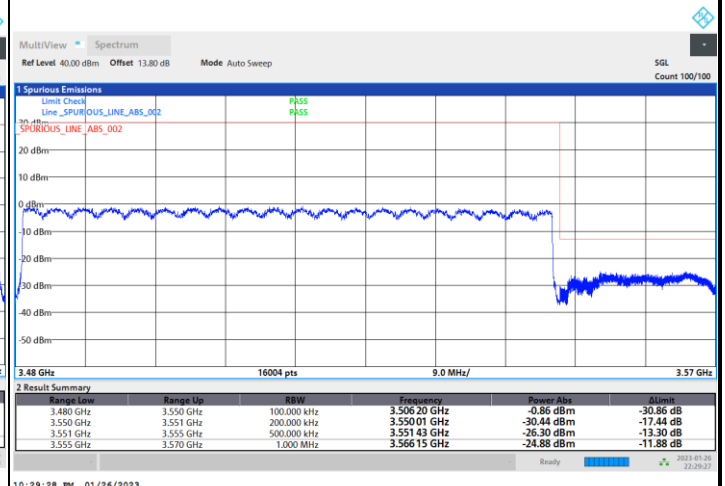


FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



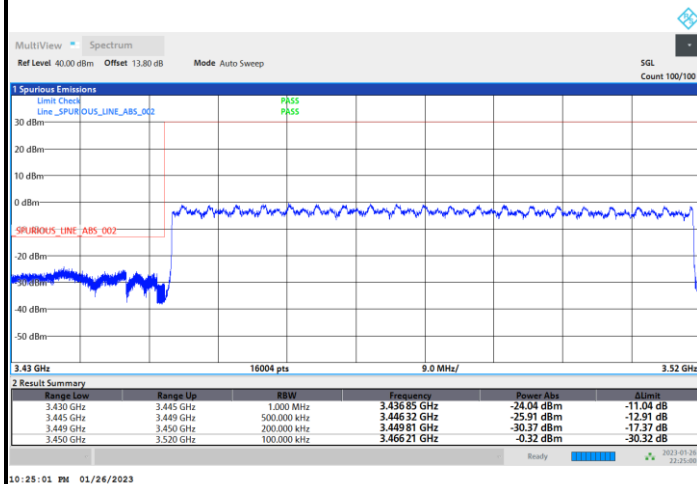
Highest Band Edge / Full RB



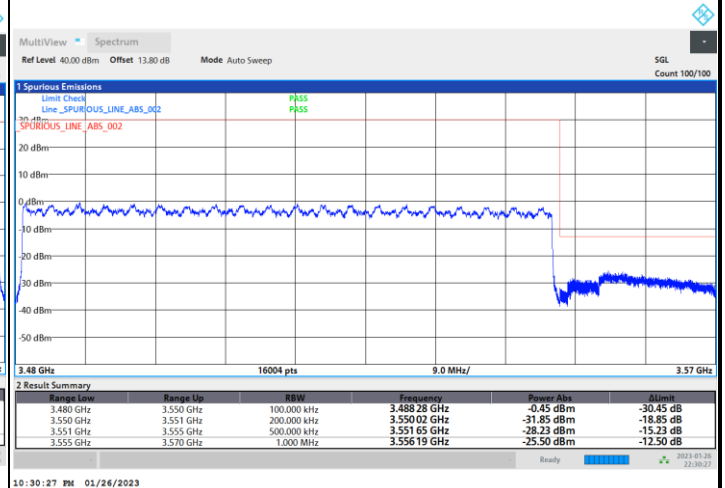


FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

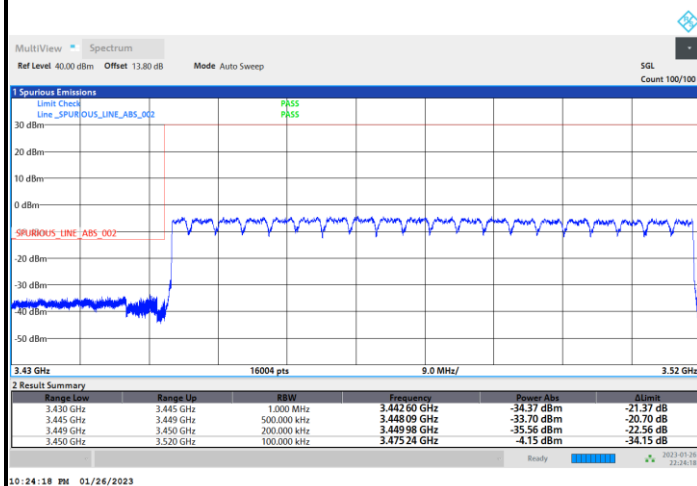


Highest Band Edge / Full RB

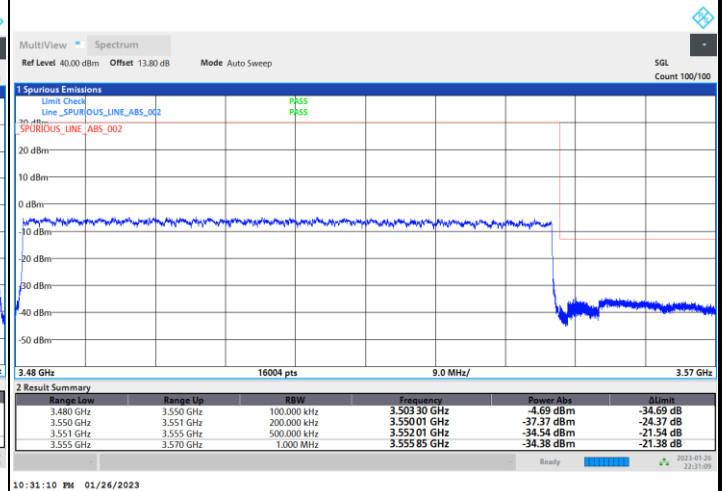


FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



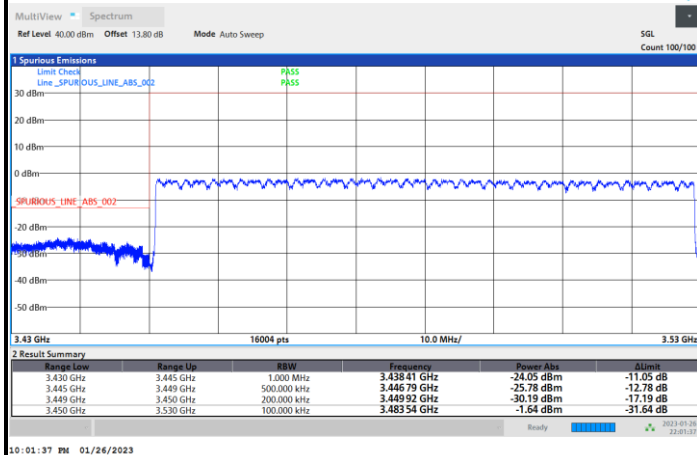
Highest Band Edge / Full RB



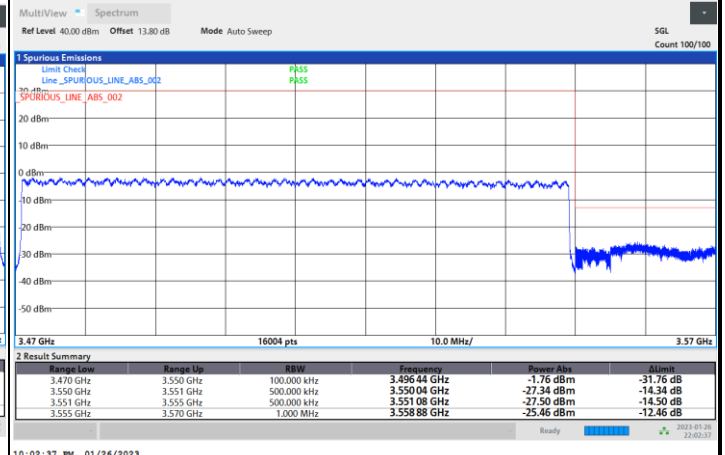


FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

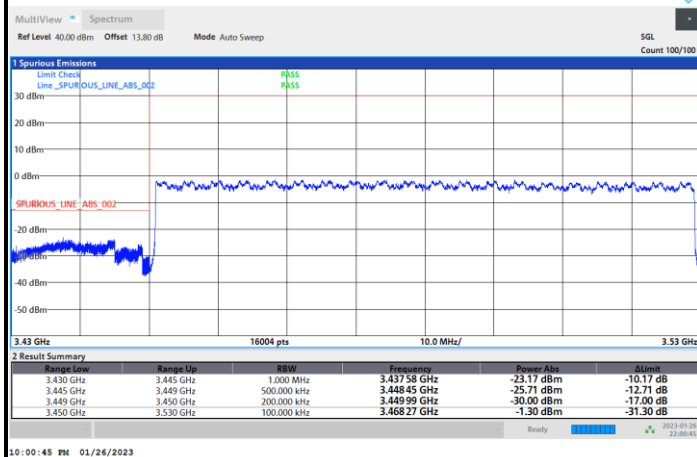


Highest Band Edge / Full RB

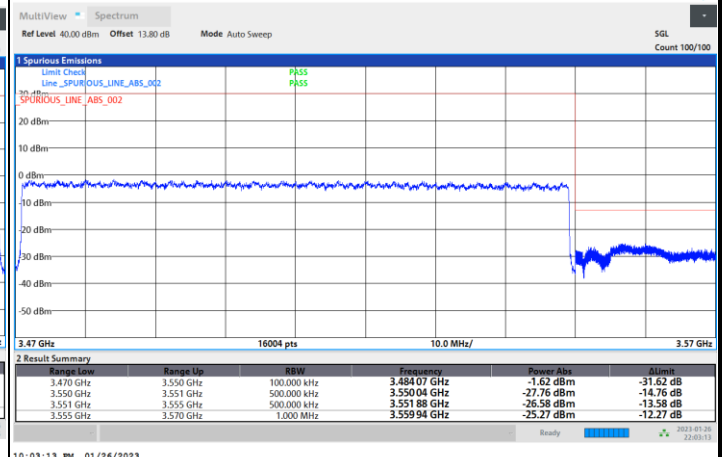


FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



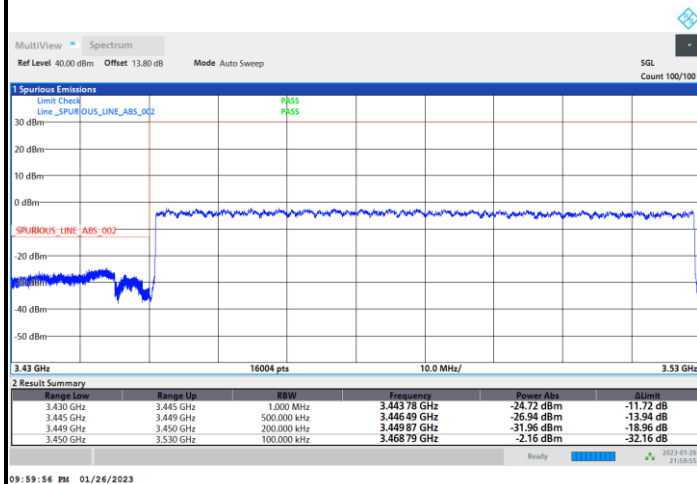
Highest Band Edge / Full RB



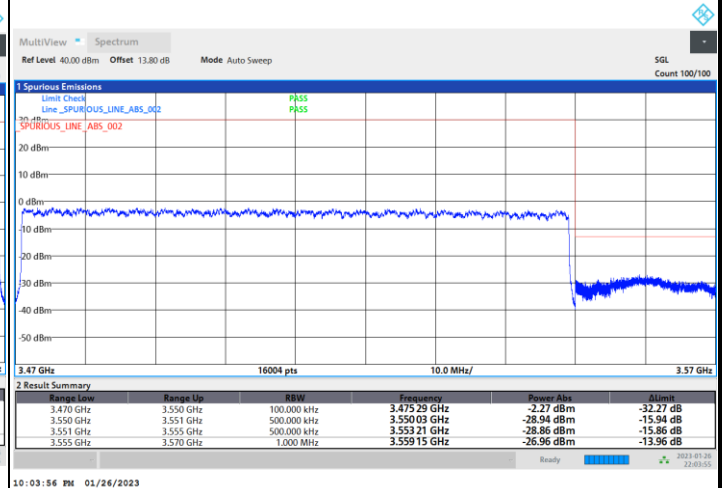


FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

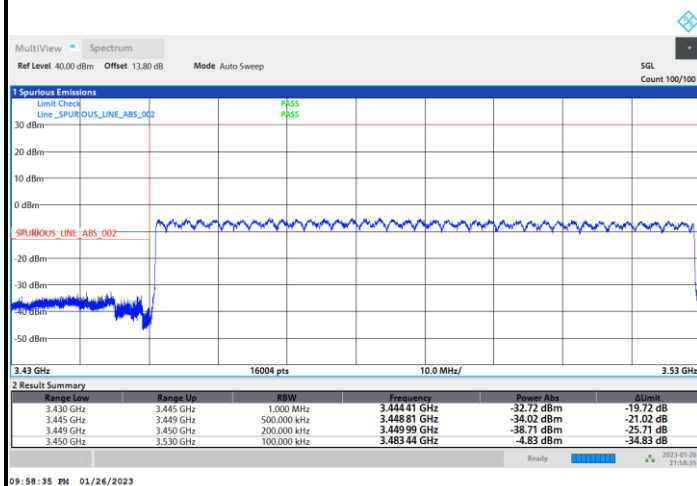


Highest Band Edge / Full RB

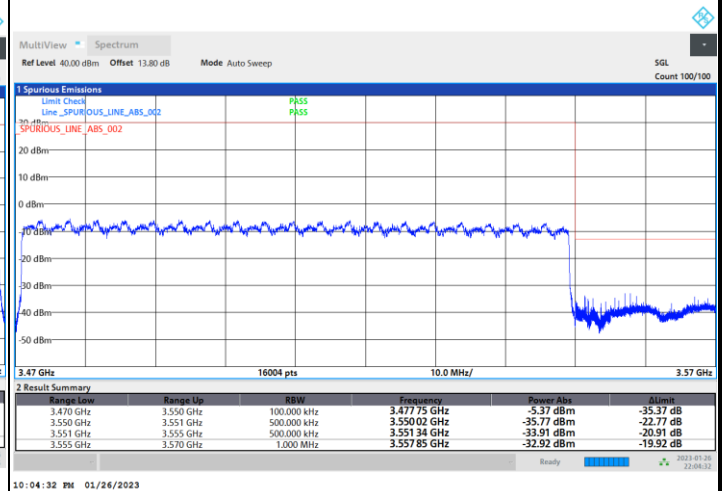


FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



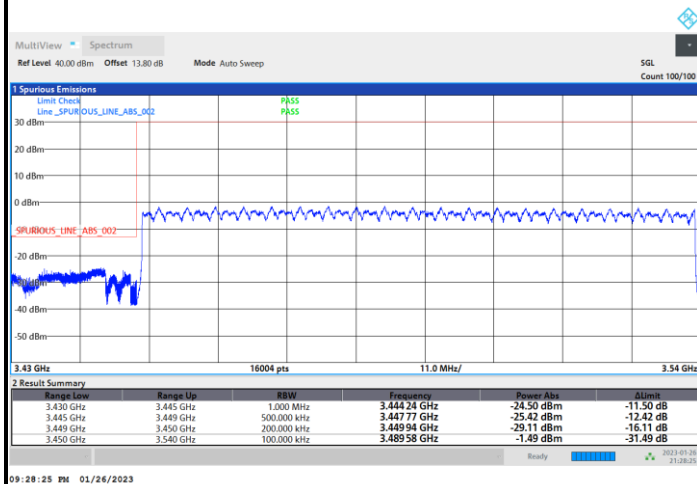
Highest Band Edge / Full RB



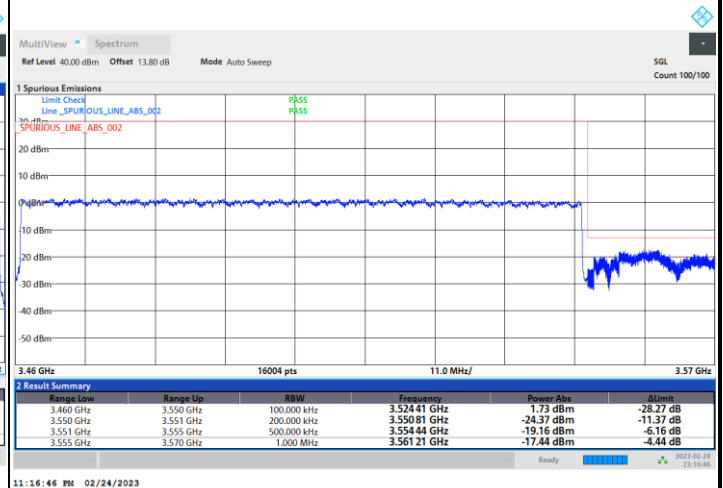


FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

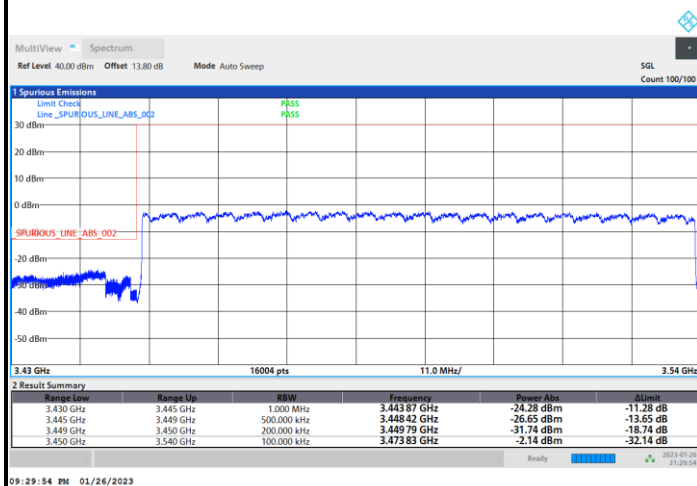


Highest Band Edge / Full RB

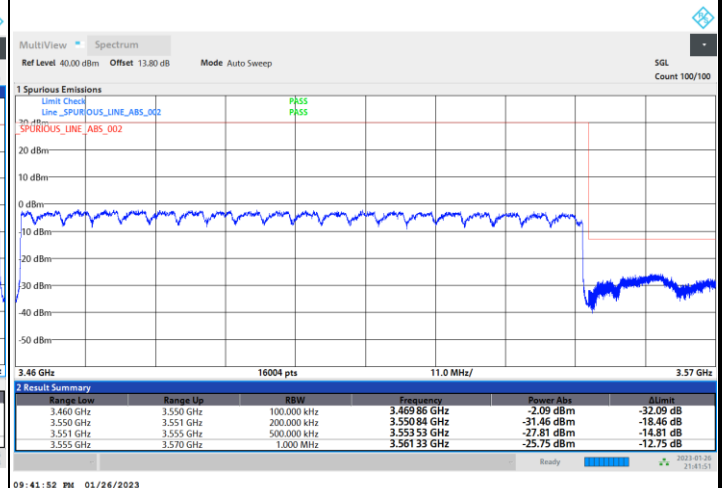


FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



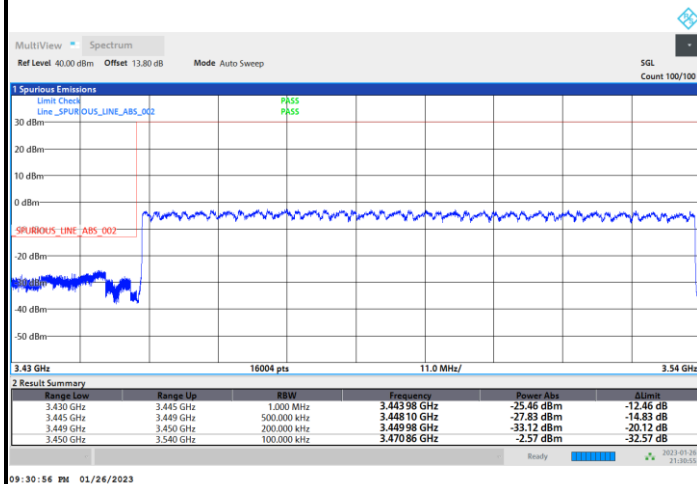
Highest Band Edge / Full RB



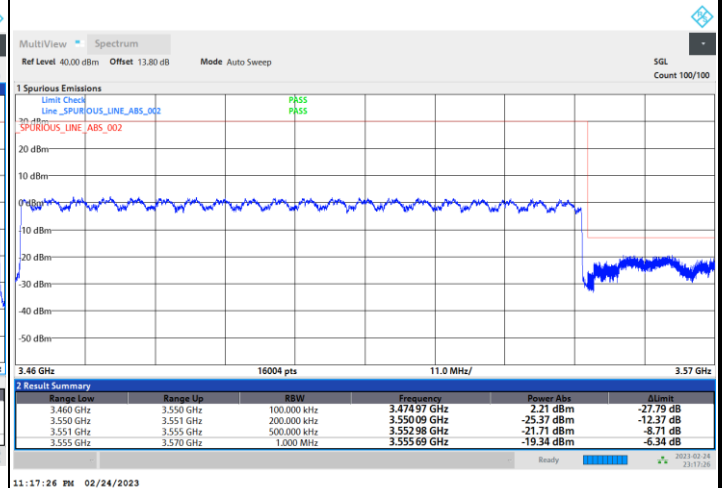


FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

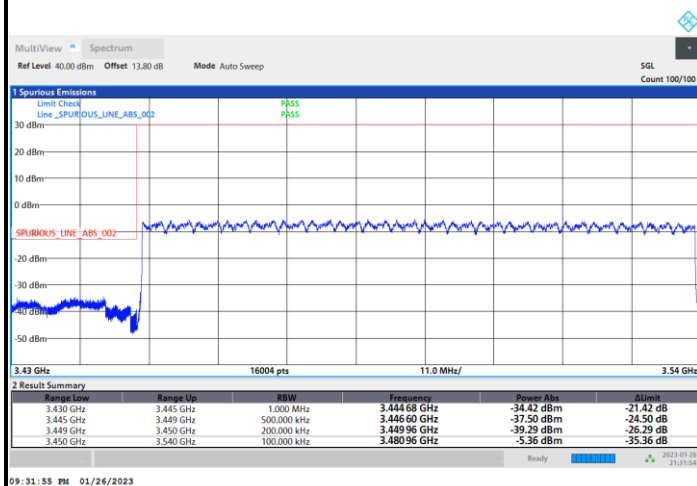


Highest Band Edge / Full RB

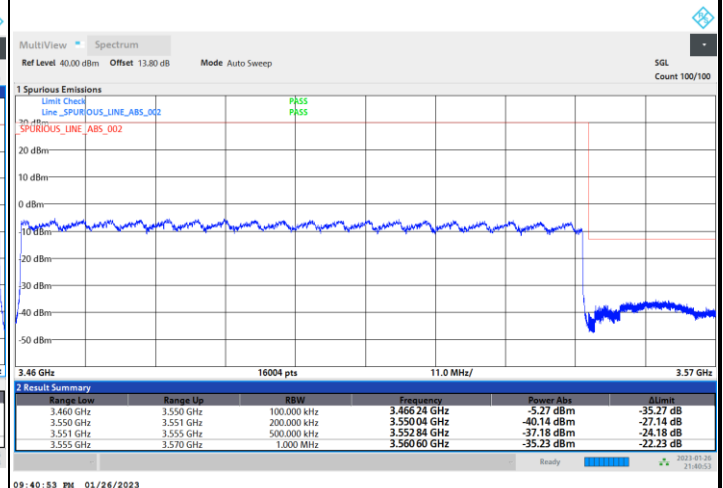


FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



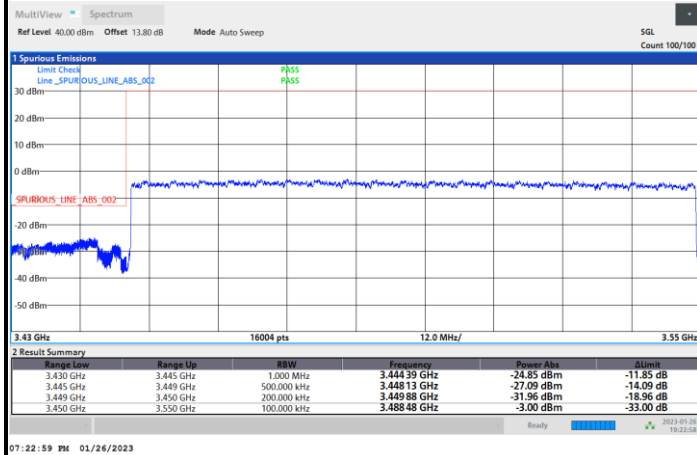
Highest Band Edge / Full RB



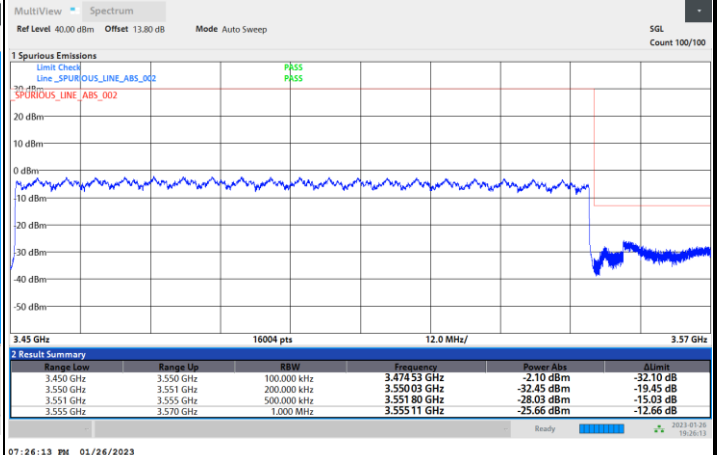


FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

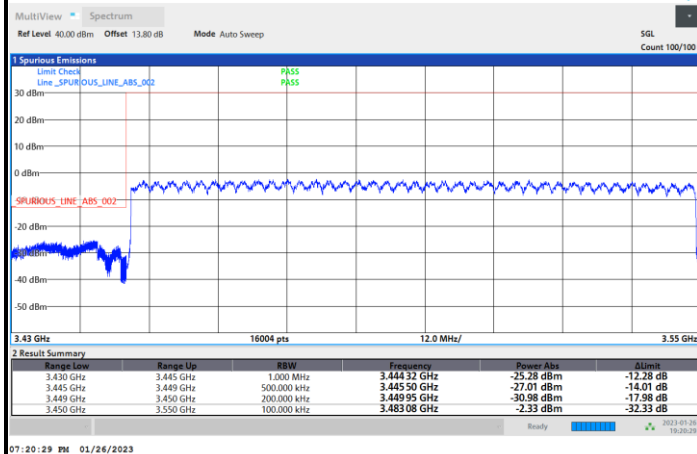


Highest Band Edge / Full RB

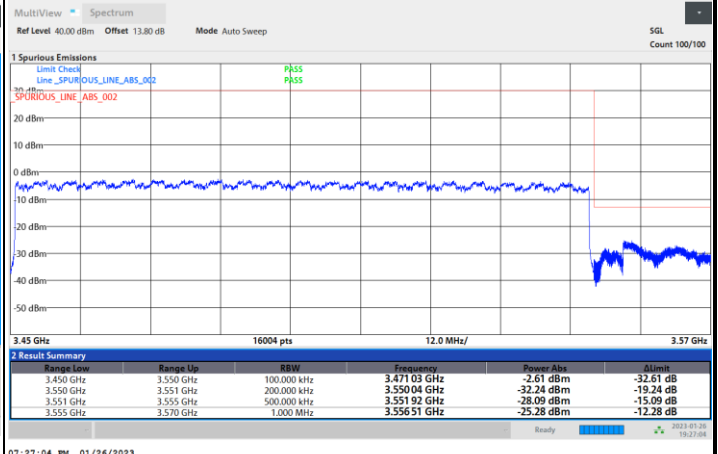


FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



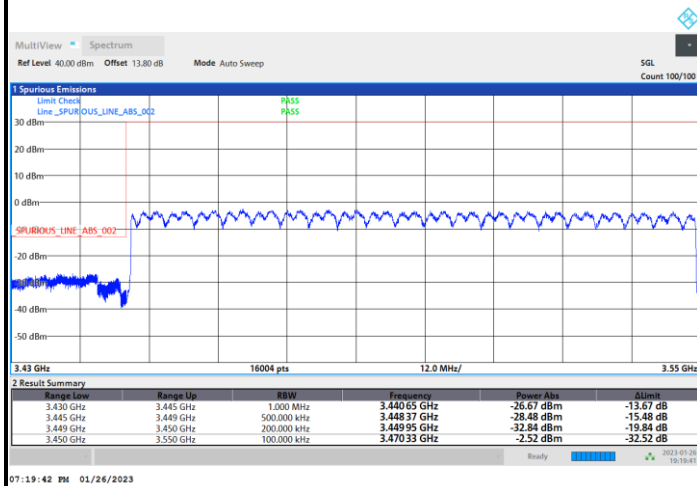
Highest Band Edge / Full RB



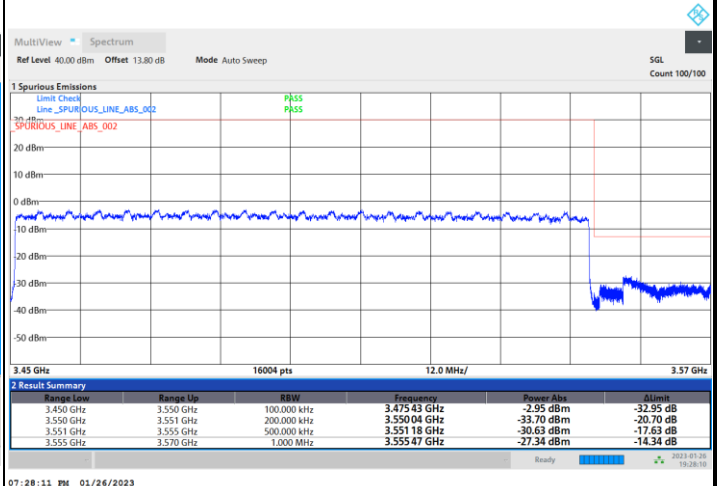


FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

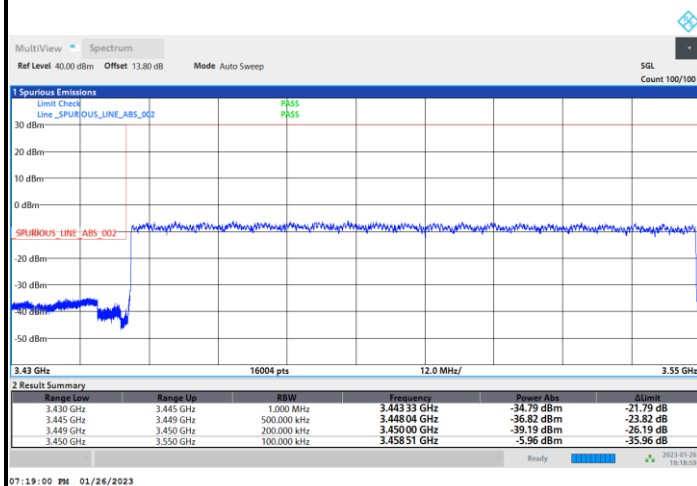


Highest Band Edge / Full RB

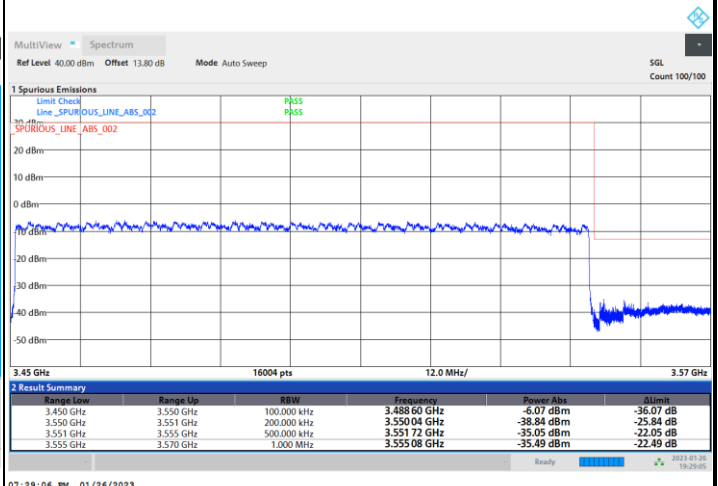


FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

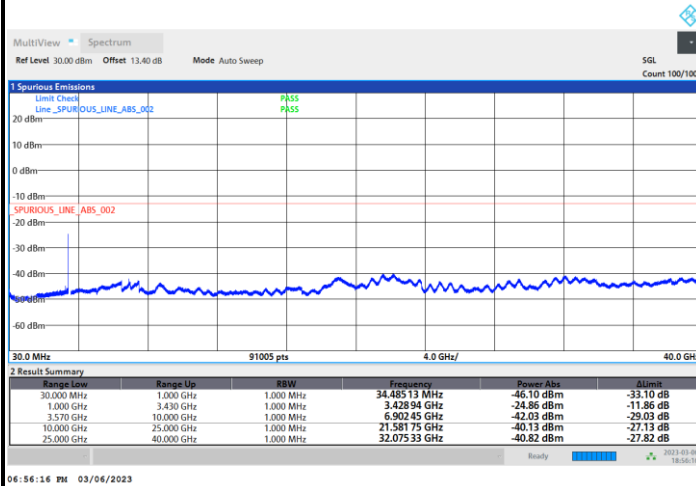




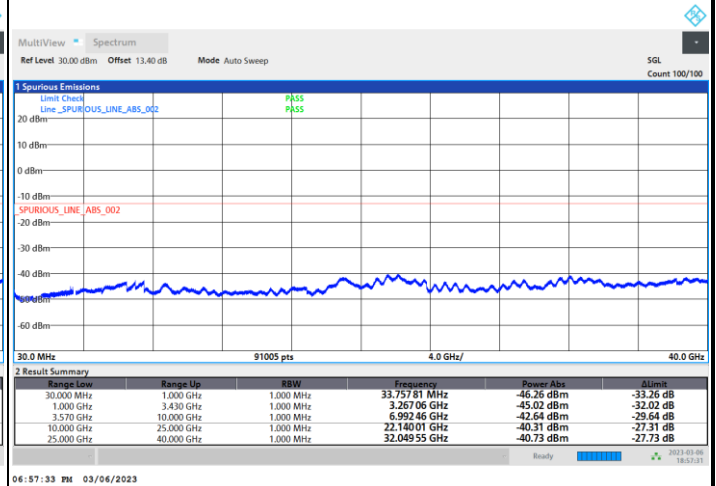
Conducted Spurious Emission

FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

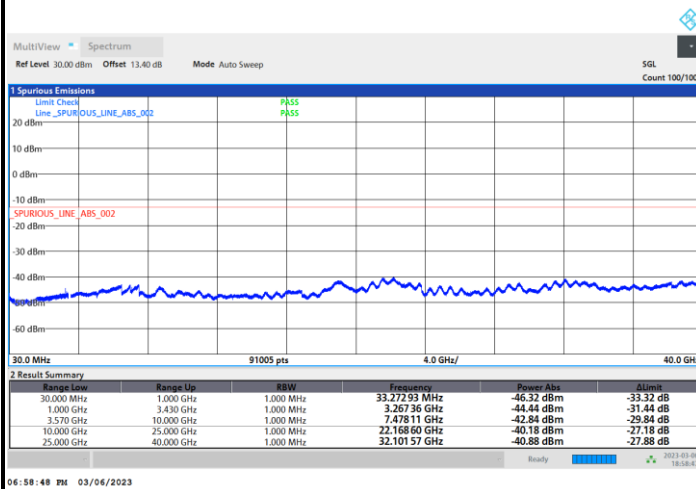
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0040	
20	Normal Voltage	0.0046	
20	Battery End Point	0.0030	

Note:

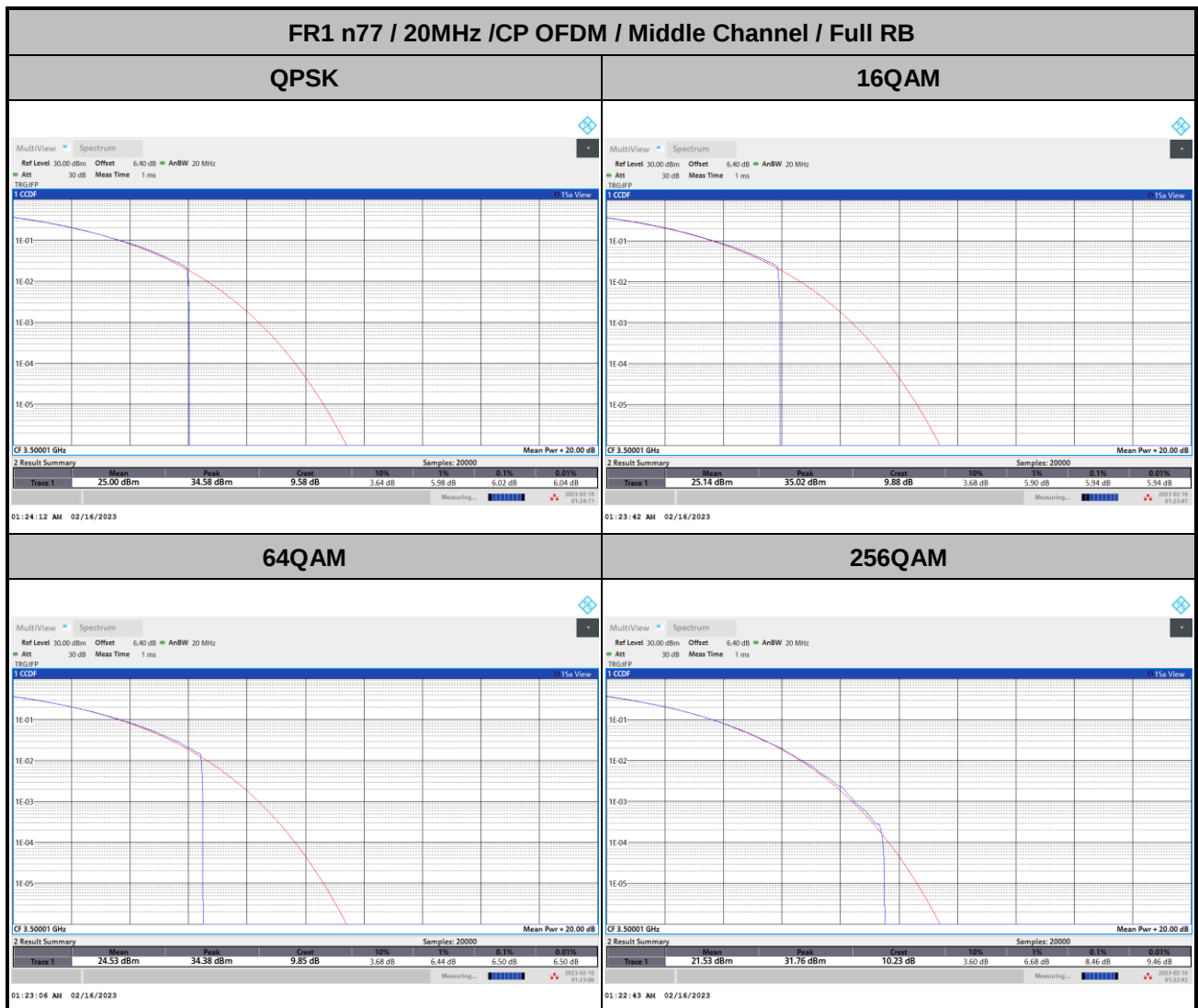
1. Normal Voltage = 4.2 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <OA 6 Antenna>

Peak-to-Average Ratio

Mode	FR1 n77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.02	5.94	6.50	8.46	PASS



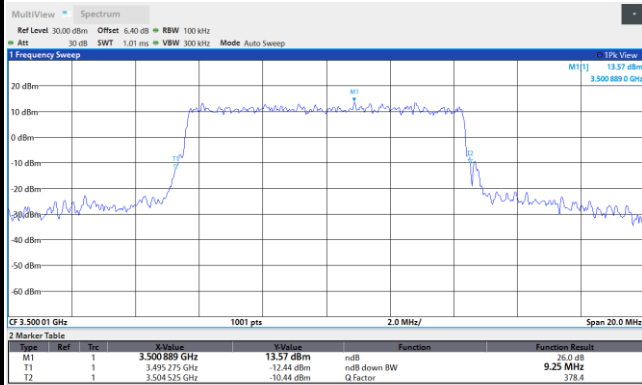
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.25	9.29	14.57	14.48	19.34	19.02	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.11	9.23	14.48	14.45	19.06	19.34	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.95	29.01	40.36	40.28	50.45	50.15	60.90	60.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.89	28.77	40.44	40.52	50.05	50.05	60.66	60.54
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.35	70.49	80.56	80.56	90.63	90.63	100.50	100.70
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.35	70.35	80.56	80.40	90.63	90.27	100.70	100.30



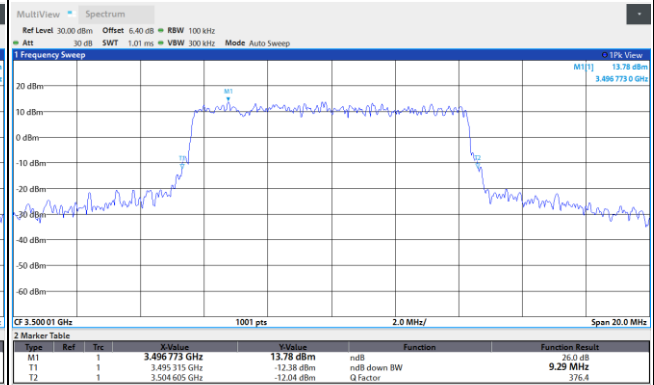
FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



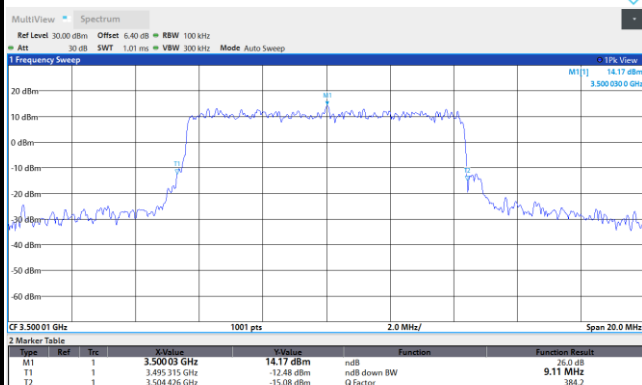
09:07:24 PM 02/19/2023

16QAM



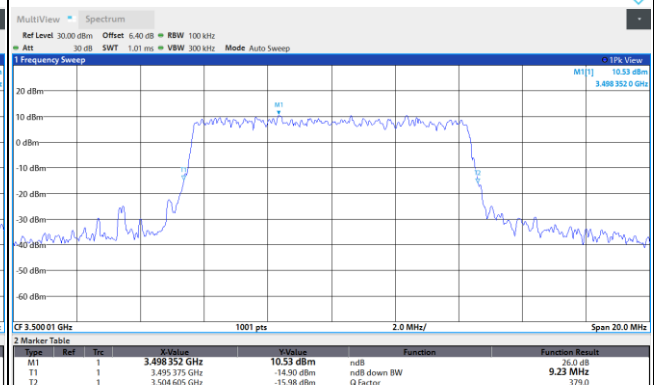
09:07:40 PM 02/19/2023

64QAM



09:07:56 PM 02/19/2023

256QAM

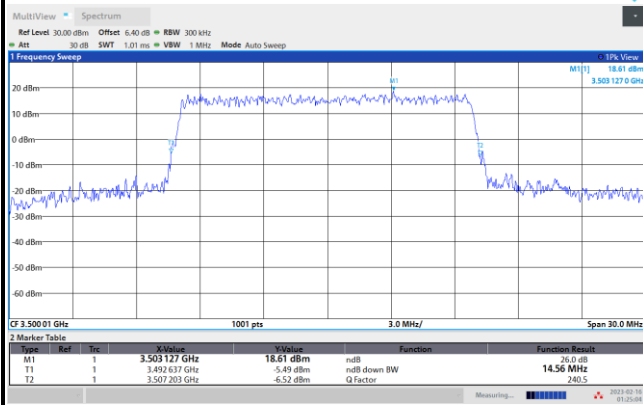


09:08:18 PM 02/19/2023

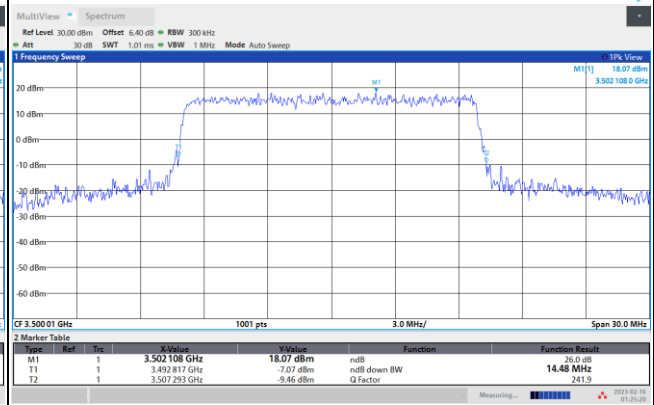


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

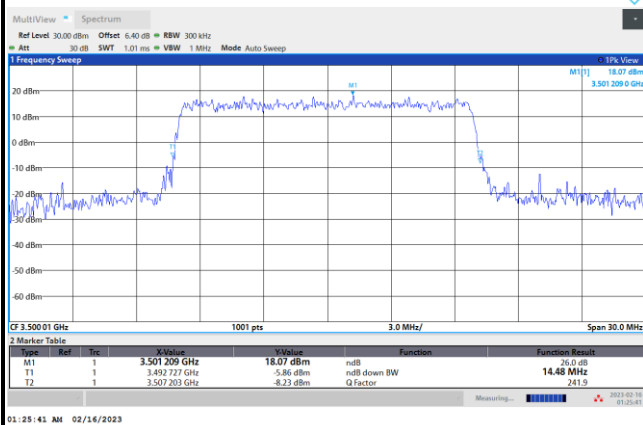
QPSK



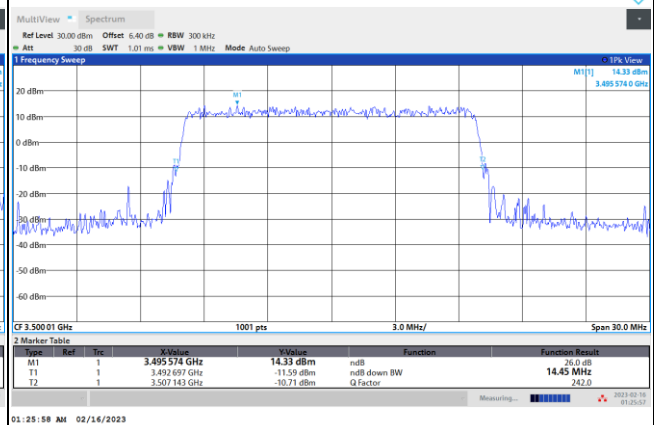
16QAM



64QAM



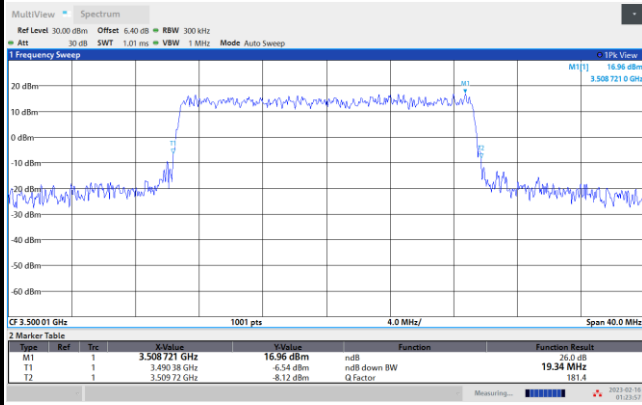
256QAM



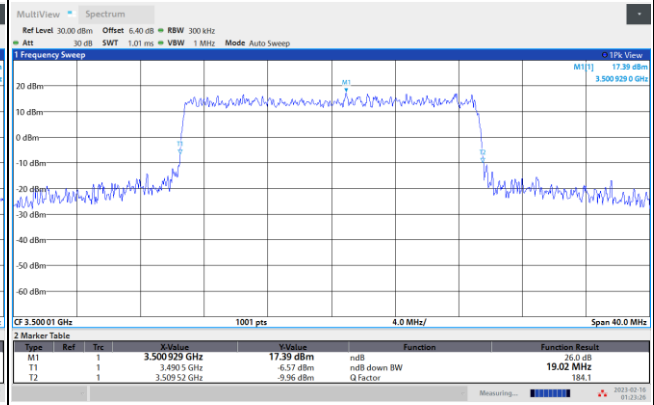


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

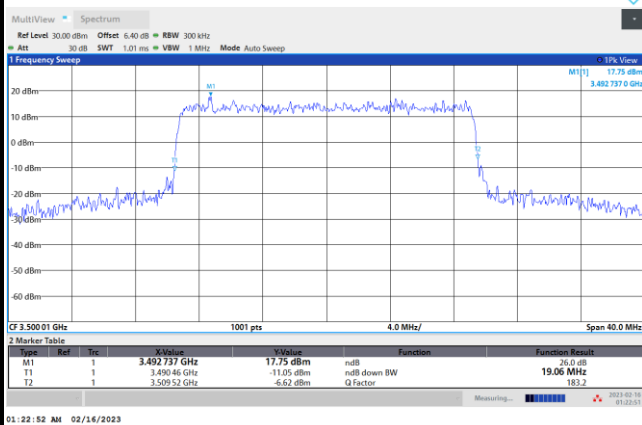
QPSK



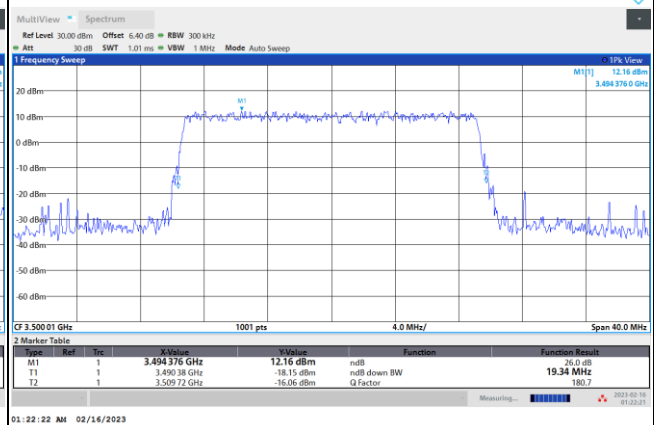
16QAM



64QAM



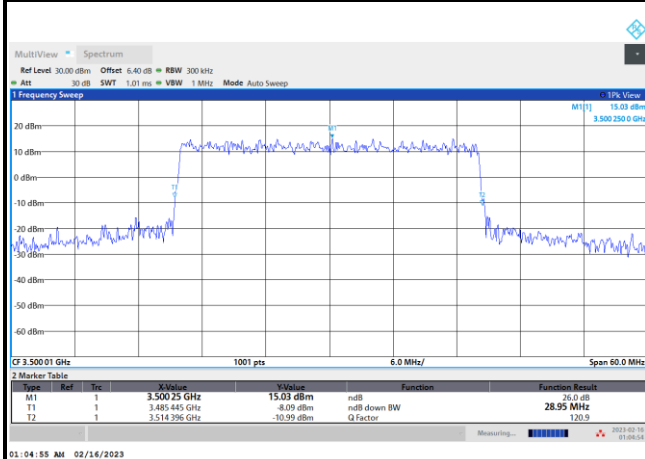
256QAM



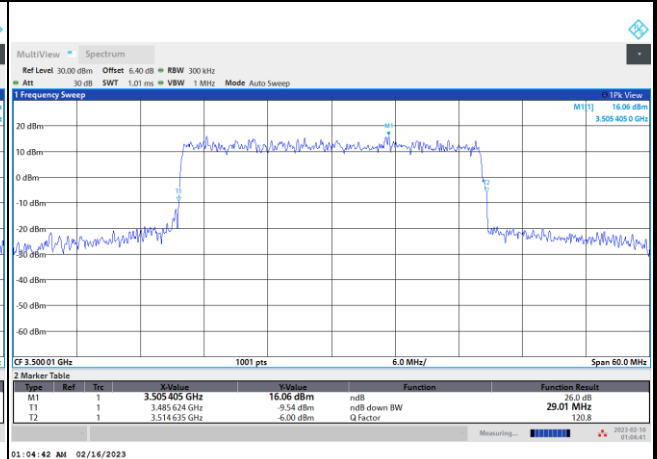


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

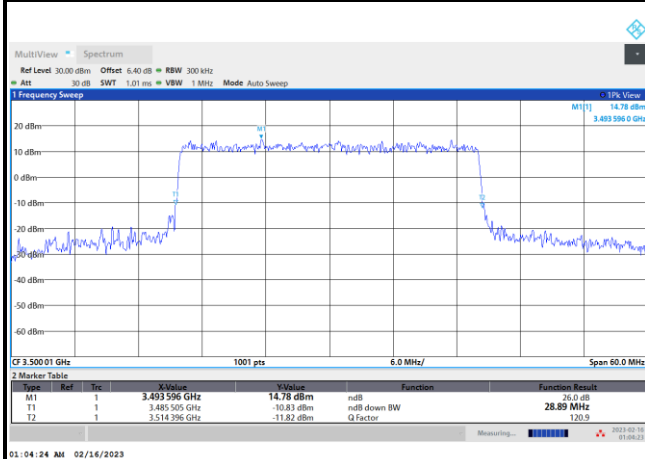
QPSK



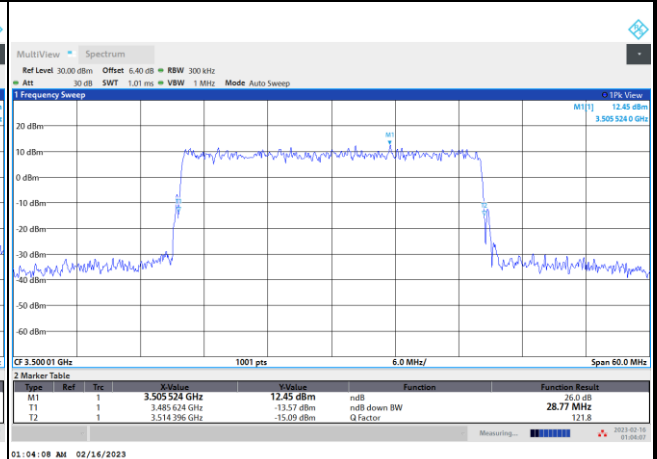
16QAM



64QAM



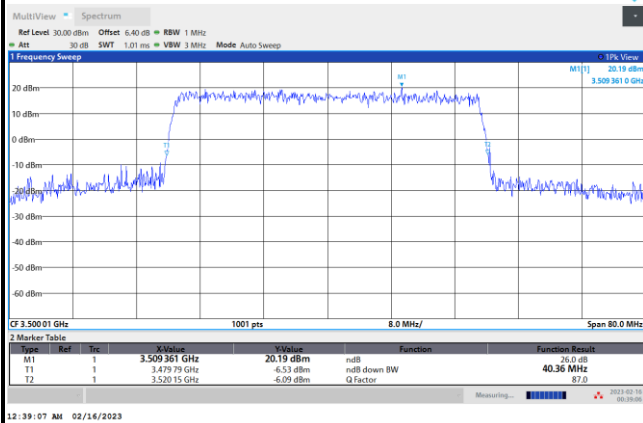
256QAM



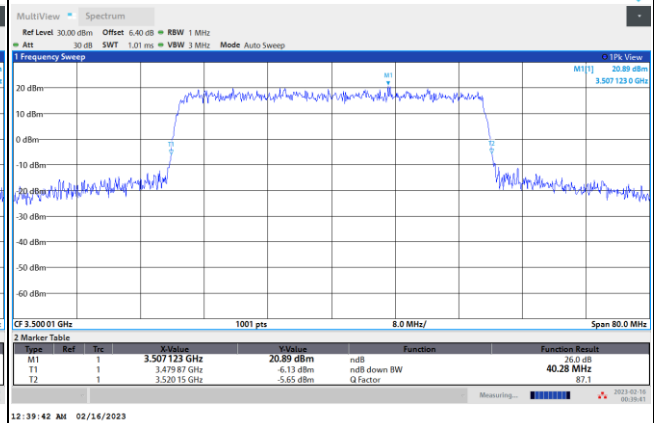


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

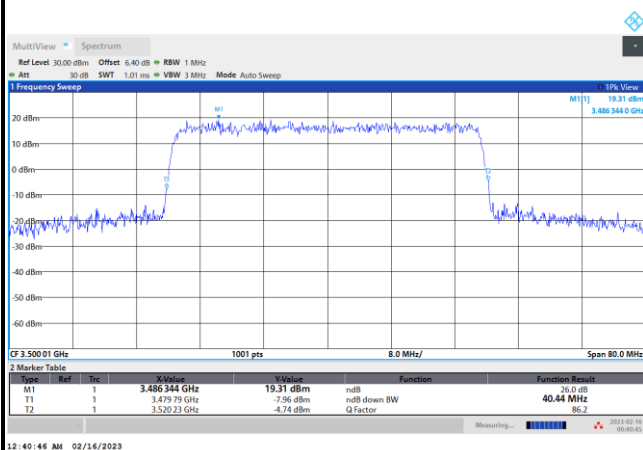
QPSK



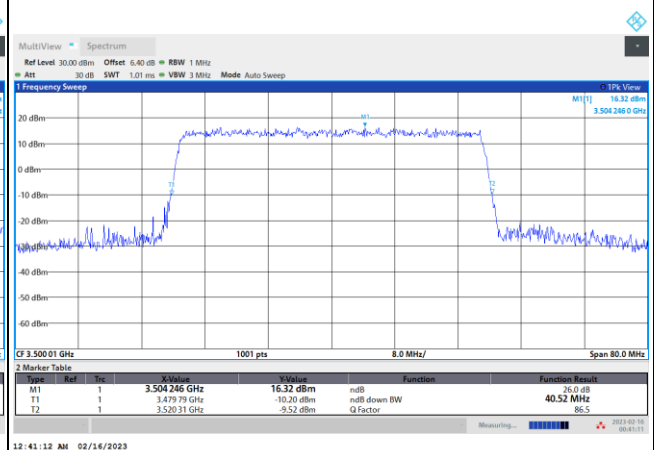
16QAM



64QAM



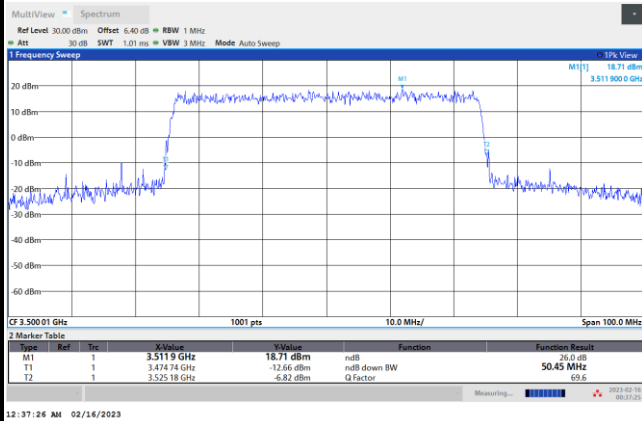
256QAM





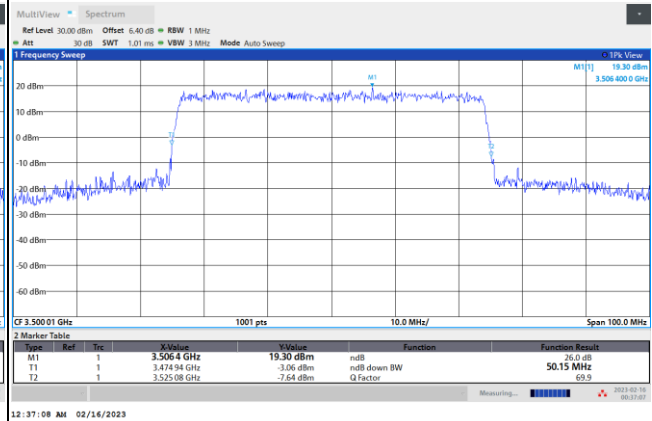
FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

QPSK



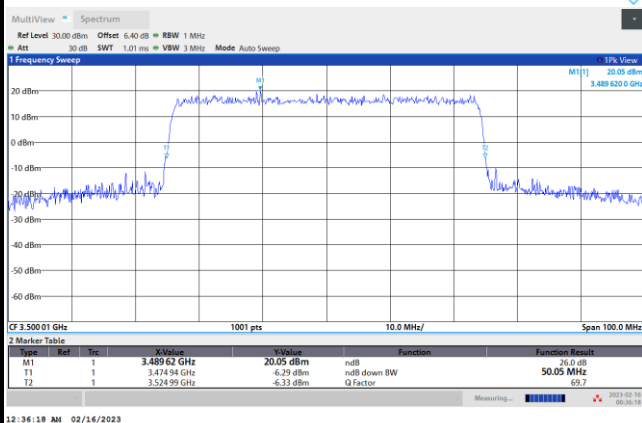
12:37:24 AM 02/16/2023

16QAM



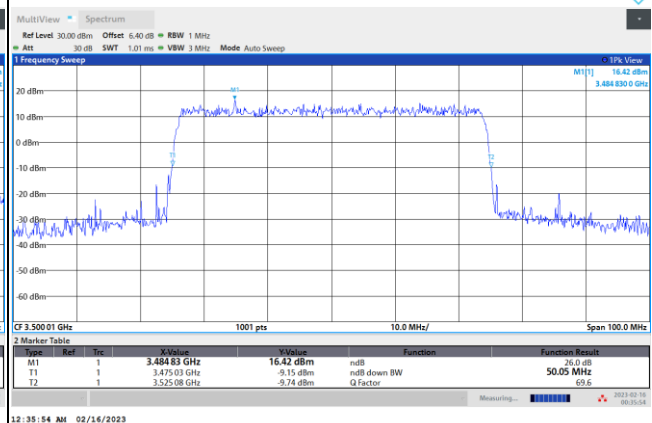
12:37:08 AM 02/16/2023

64QAM



12:36:18 AM 02/16/2023

256QAM

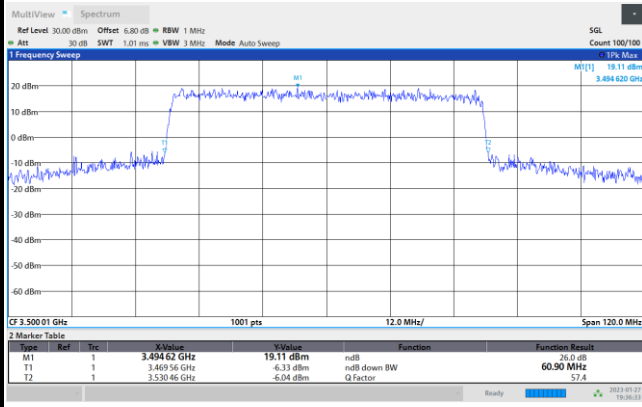


12:35:54 AM 02/16/2023



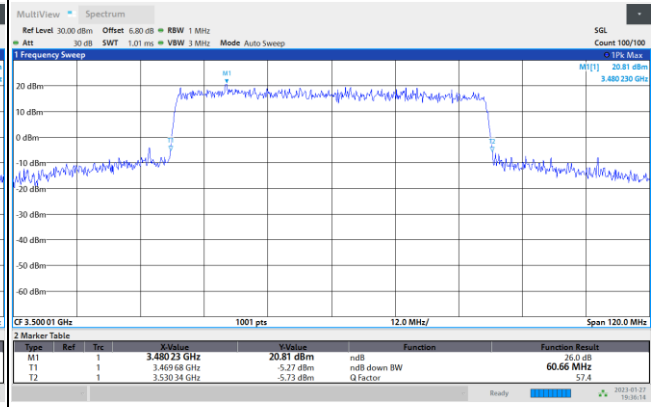
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



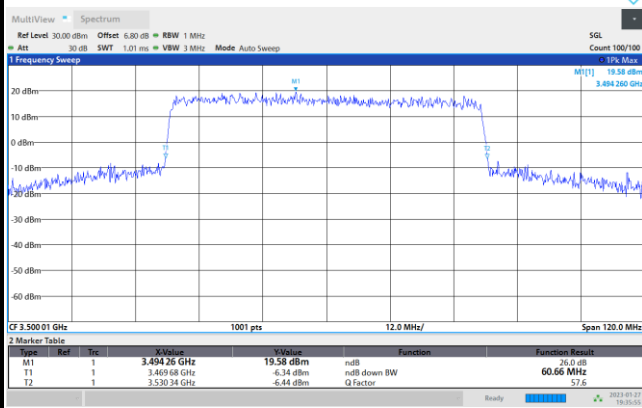
07:36:34 PM 01/27/2023

16QAM



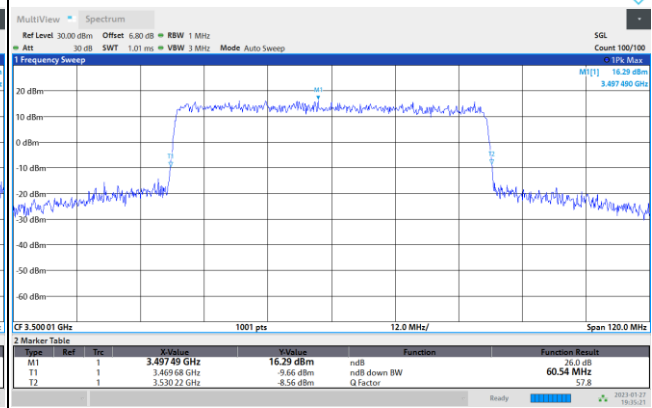
07:36:15 PM 01/27/2023

64QAM



07:35:55 PM 01/27/2023

256QAM

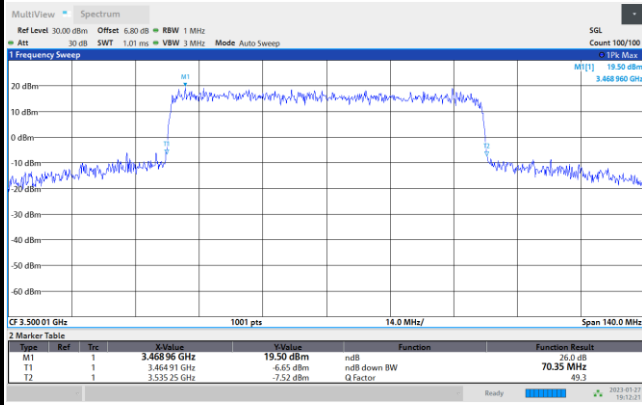


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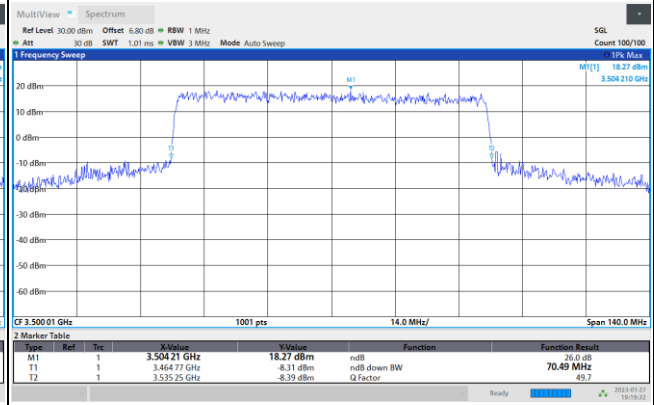


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

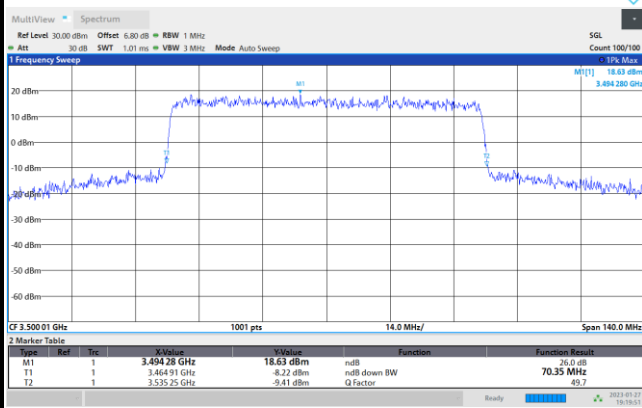
QPSK



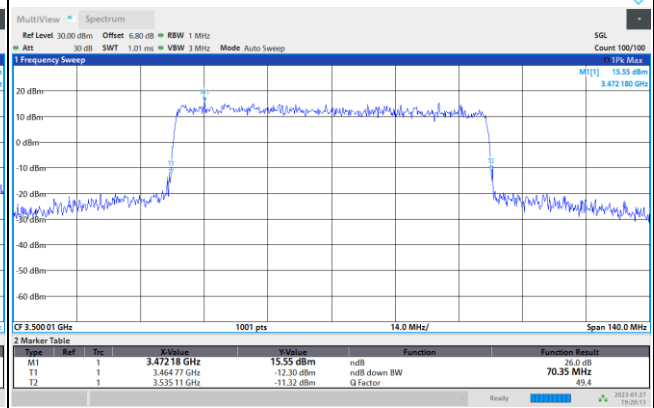
16QAM



64QAM



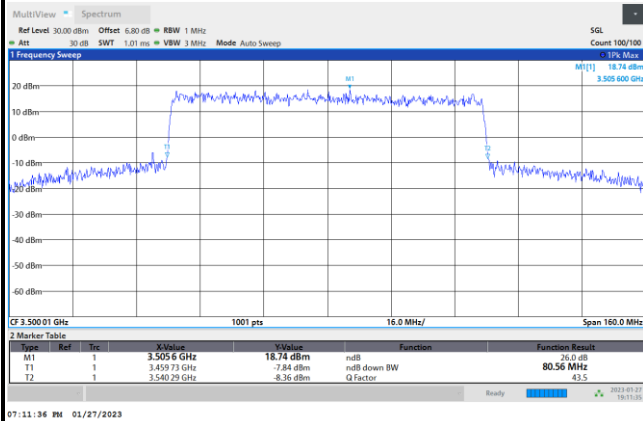
256QAM



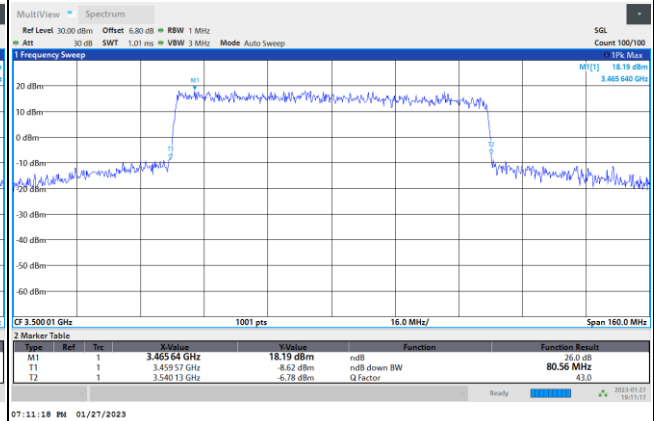


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

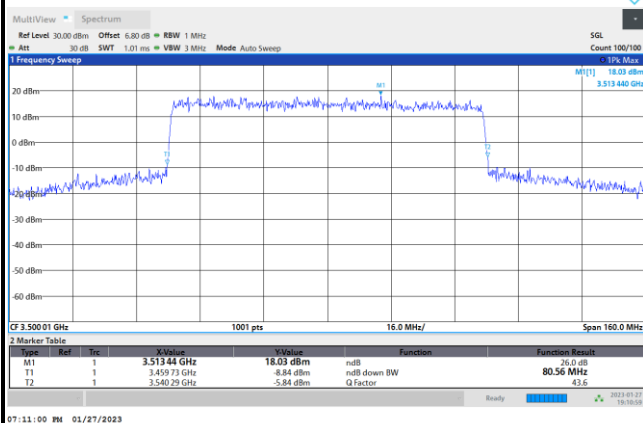
QPSK



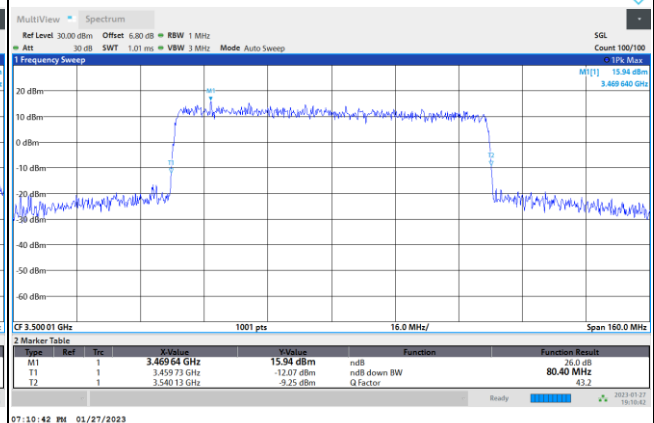
16QAM



64QAM



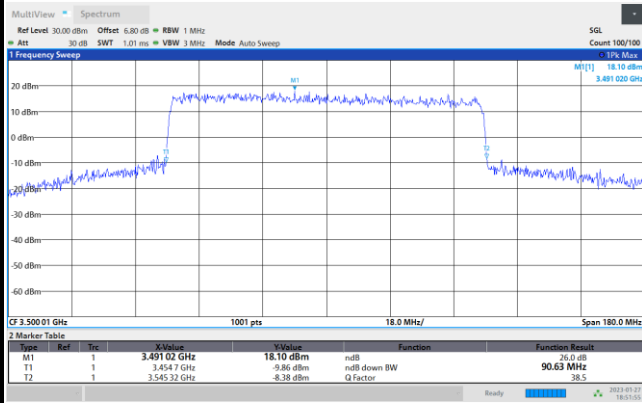
256QAM



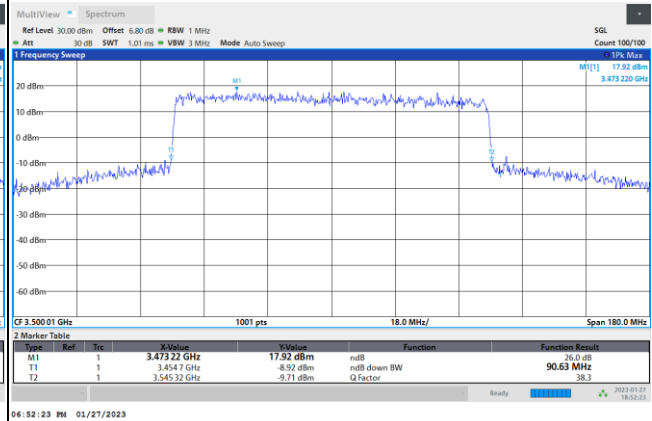


FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

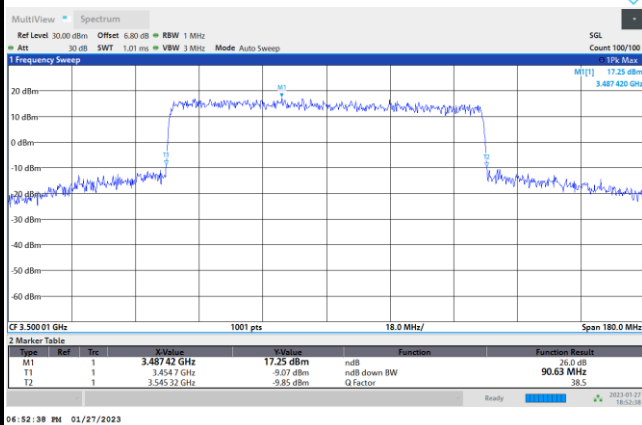
QPSK



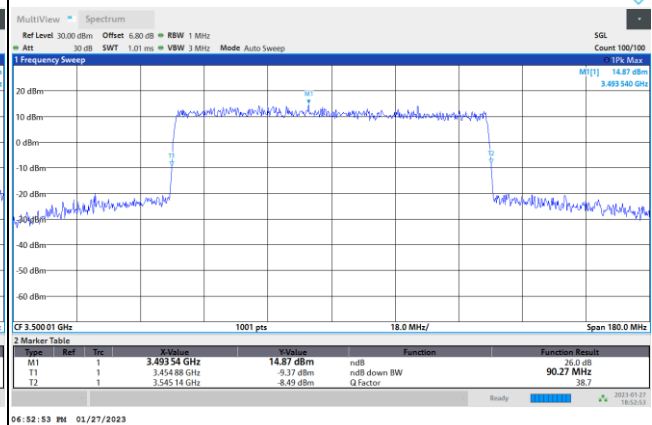
16QAM



64QAM



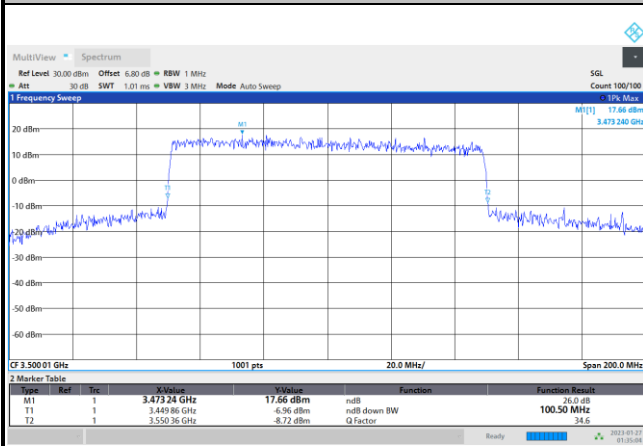
256QAM





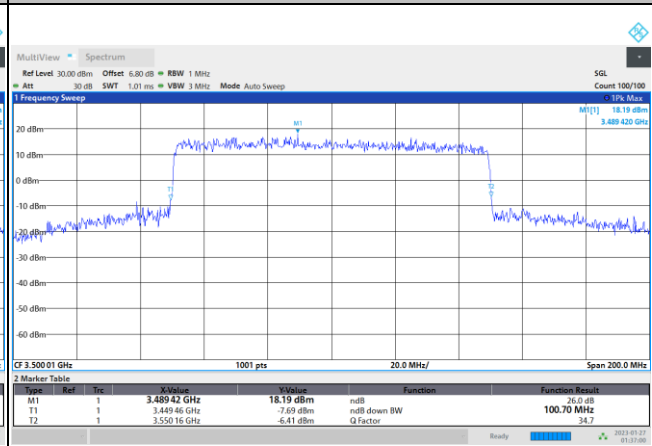
FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



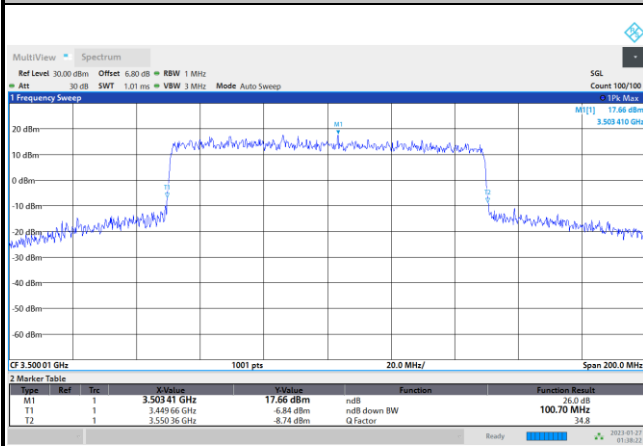
01:35:05 AM 01/27/2023

16QAM



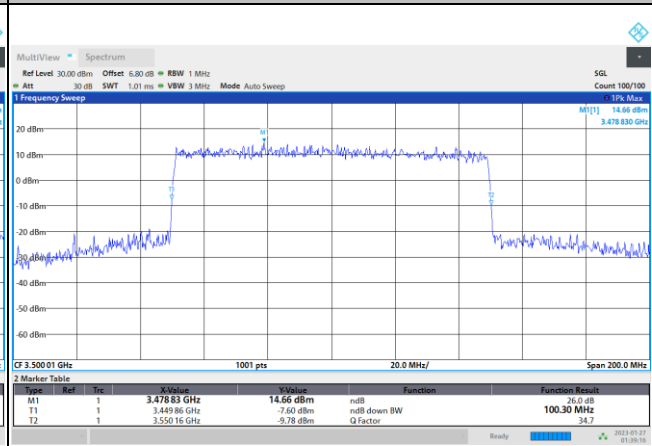
01:37:00 AM 01/27/2023

64QAM



01:38:22 AM 01/27/2023

256QAM



01:39:17 AM 01/27/2023

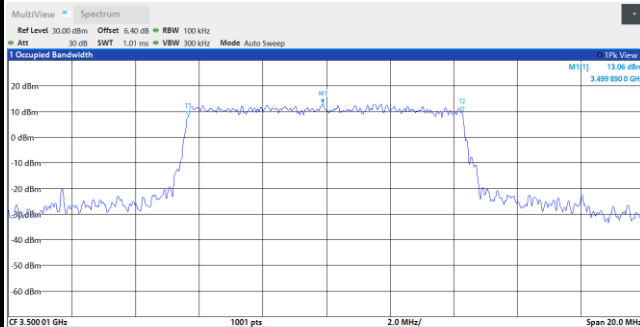
**Occupied Bandwidth**

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.59	8.56	13.62	13.55	18.16	18.25	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.59	8.56	13.58	13.61	18.22	18.27	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.82	27.80	38.02	38.12	47.57	47.62	58.01	57.83
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	27.82	27.76	38.15	38.00	47.47	47.54	57.73	57.72
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	67.51	67.57	77.38	77.49	87.41	87.44	97.26	97.32
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	67.57	67.37	77.49	77.42	87.31	87.24	97.58	97.21



FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

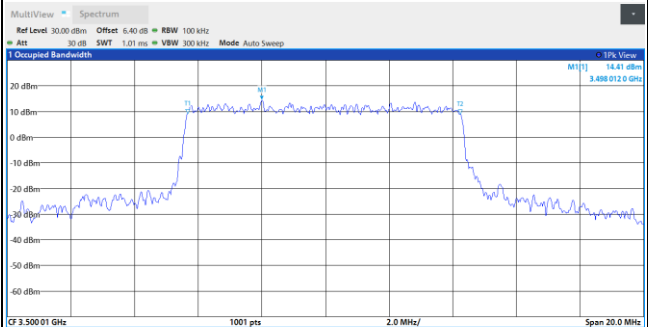
QPSK



Type	Ref	Freq	Value	Function
M1	1	3.49989 GHz	13.06 dBm	Occupied Bandwidth
T1	1	3.4996716 GHz	8.18 dBm	Occ Bw Centroid
T2	1	3.5042701 GHz	9.50 dBm	Occ Bw Freq Offset

09:07:31 PM 02/19/2023

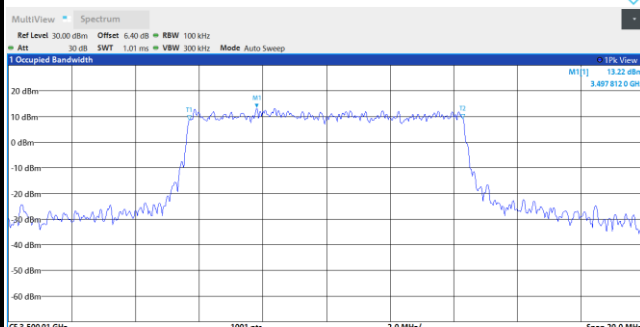
16QAM



Type	Ref	Freq	Value	Function
M1	1	3.498012 GHz	14.41 dBm	Occupied Bandwidth
T1	1	3.4956784 GHz	9.22 dBm	Occ Bw Centroid
T2	1	3.5042482 GHz	9.01 dBm	Occ Bw Freq Offset

09:07:46 PM 02/19/2023

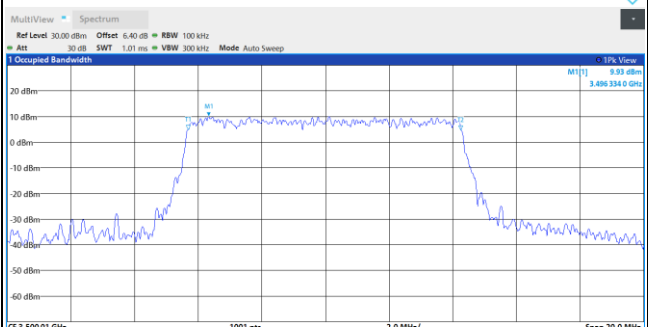
64QAM



Type	Ref	Freq	Value	Function
M1	1	3.497812 GHz	13.22 dBm	Occupied Bandwidth
T1	1	3.4957032 GHz	8.50 dBm	Occ Bw Centroid
T2	1	3.5042961 GHz	9.08 dBm	Occ Bw Freq Offset

09:08:02 PM 02/19/2023

256QAM



Type	Ref	Freq	Value	Function
M1	1	3.496334 GHz	9.93 dBm	Occupied Bandwidth
T1	1	3.4957042 GHz	4.81 dBm	Occ Bw Centroid
T2	1	3.5042649 GHz	4.63 dBm	Occ Bw Freq Offset

09:08:24 PM 02/19/2023