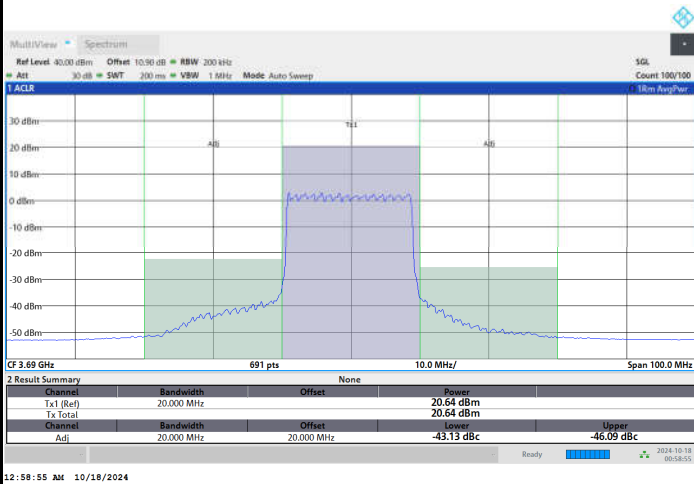




FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB





FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

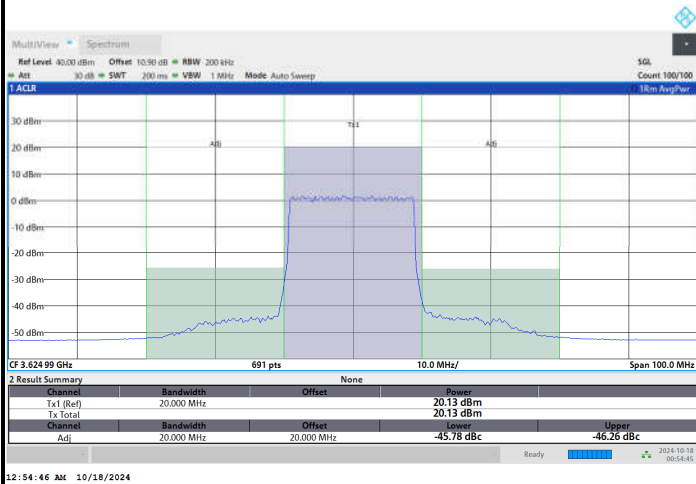




FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

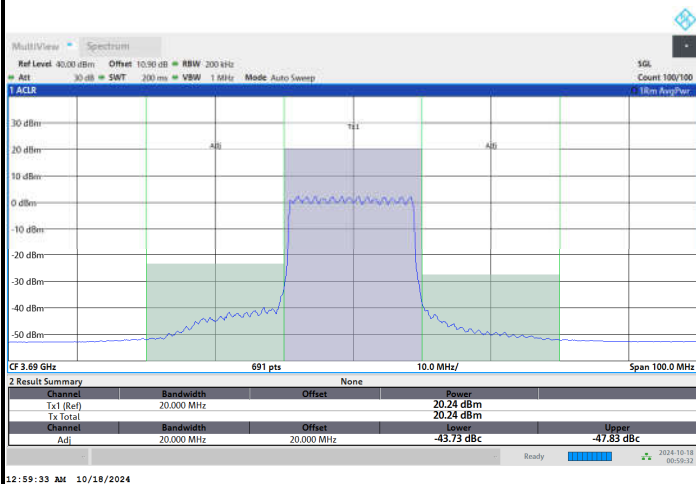




FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

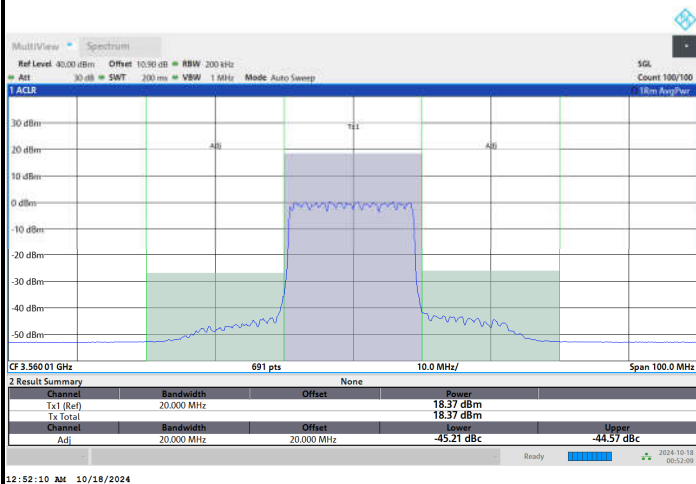




FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB

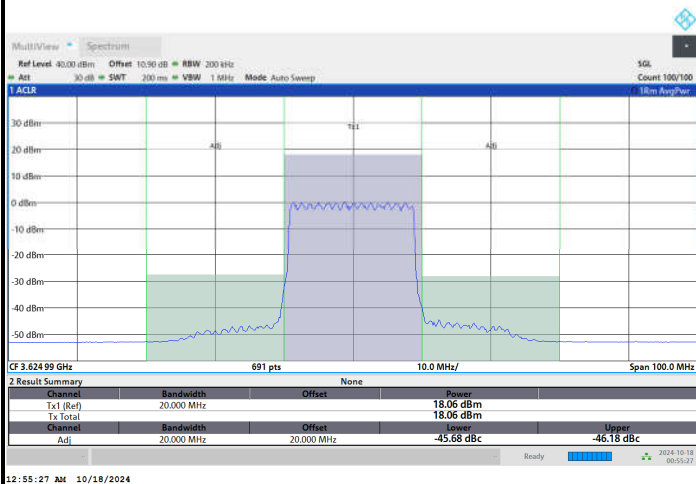




FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

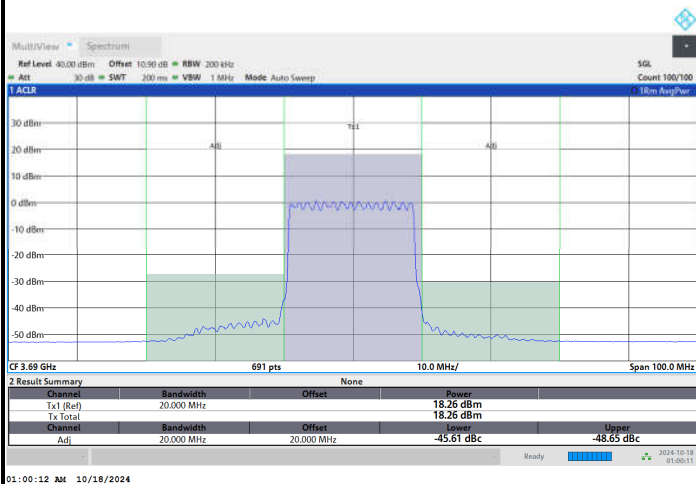




FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Highest Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB

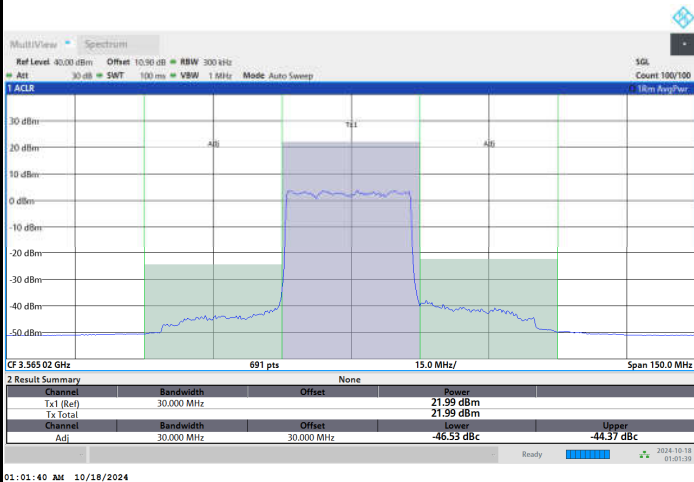




FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

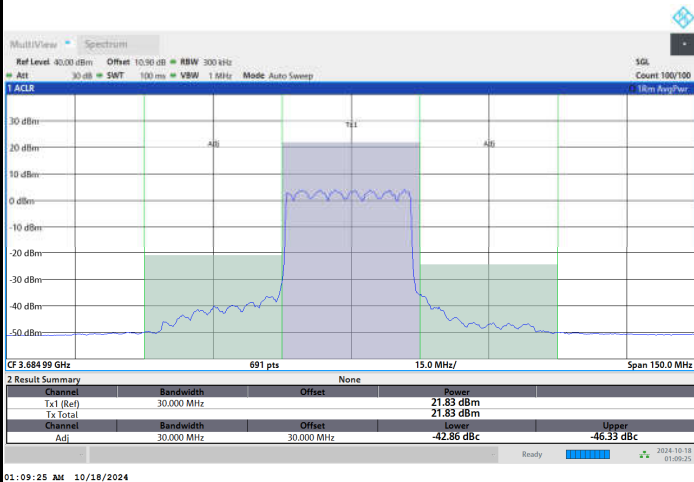




FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Lowest Channel

Full RB

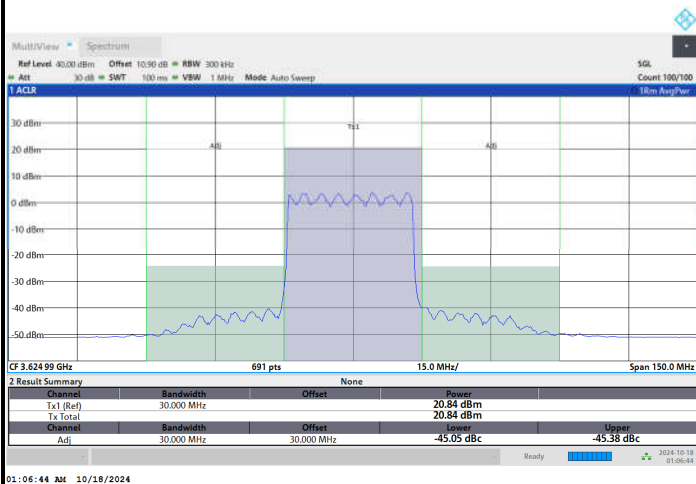




FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

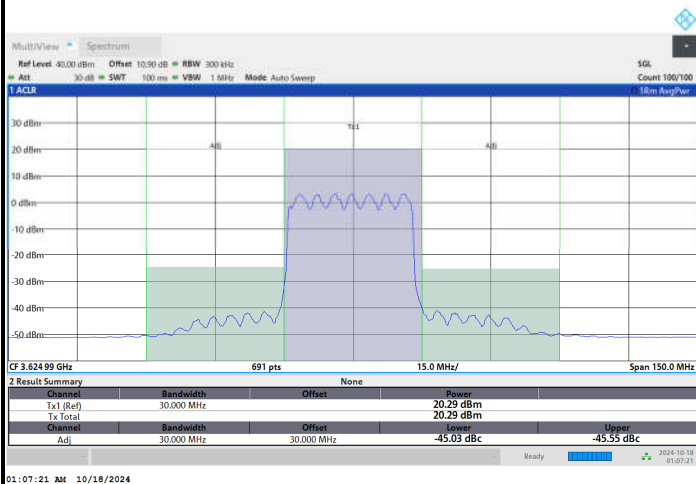




FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

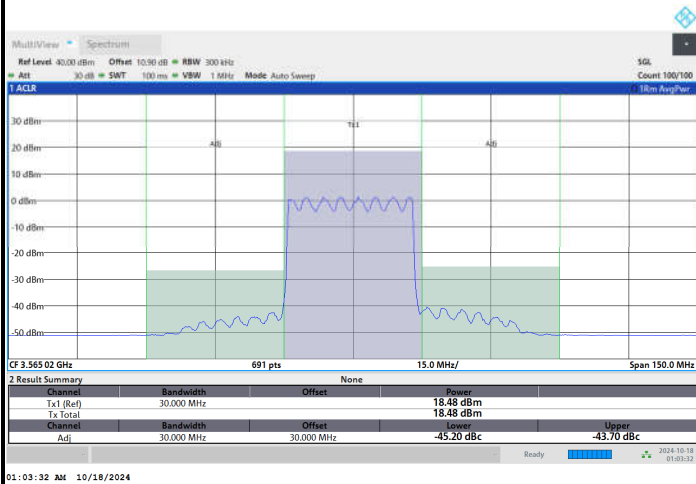




FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB





FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

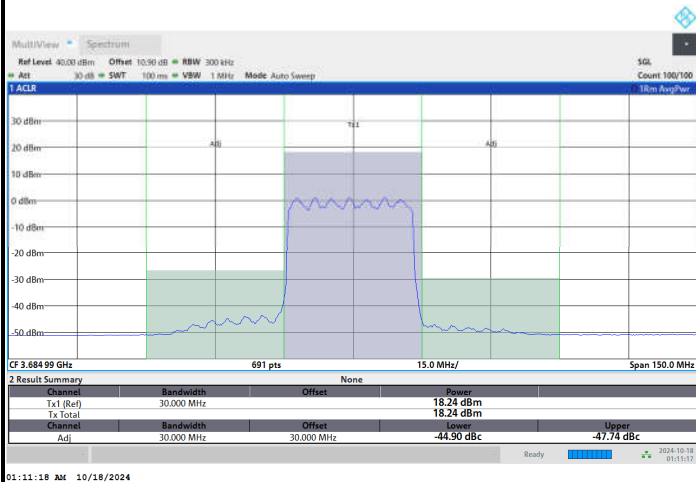




FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Highest Channel

Full RB

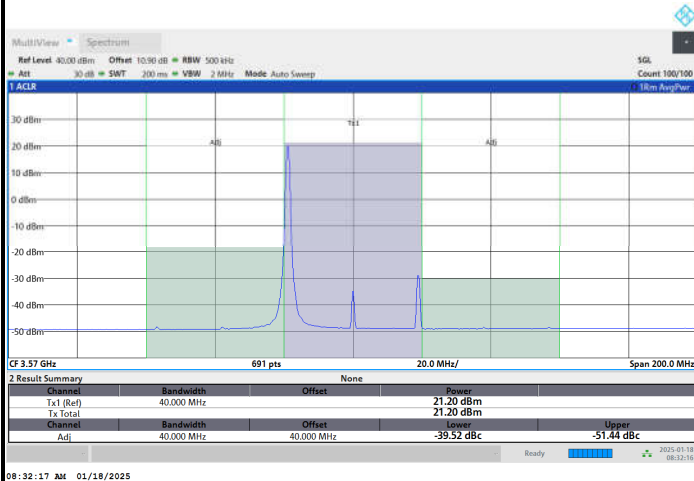




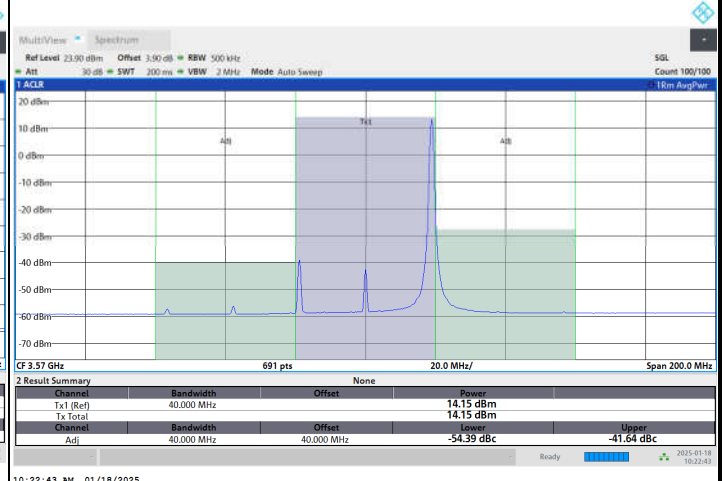
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

1RB0



1RBmax



Full RB

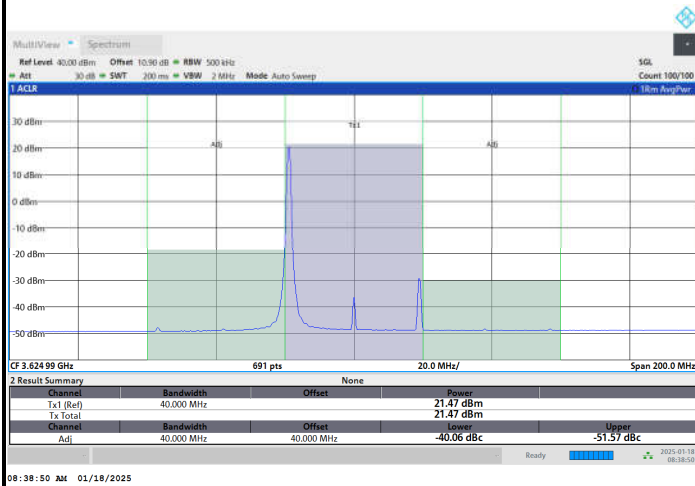




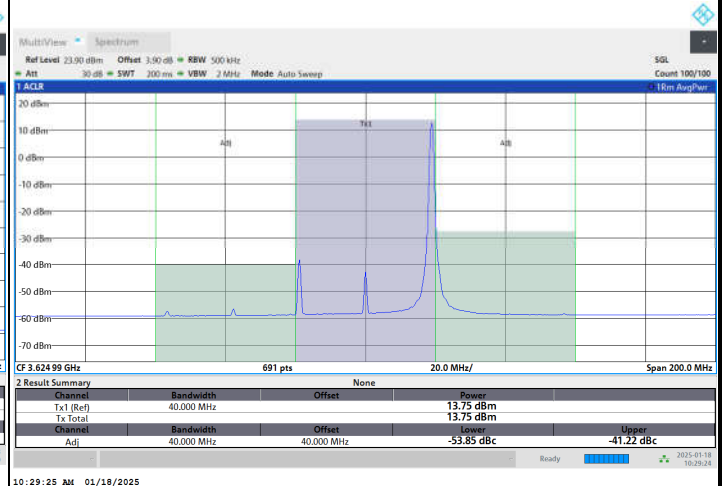
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

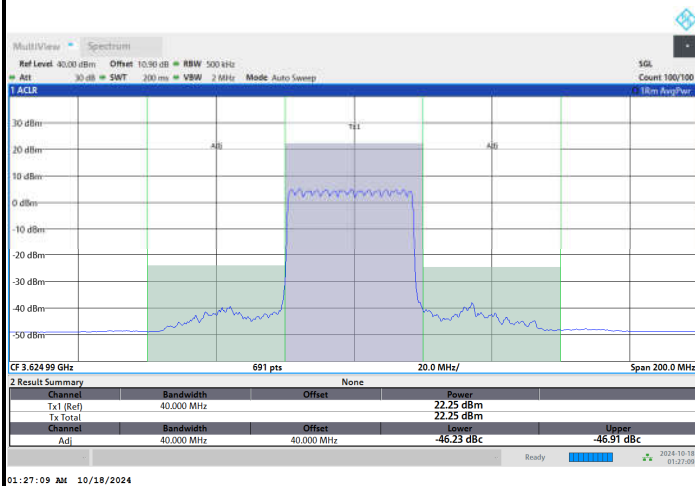
1RB0



1RBmax



Full RB

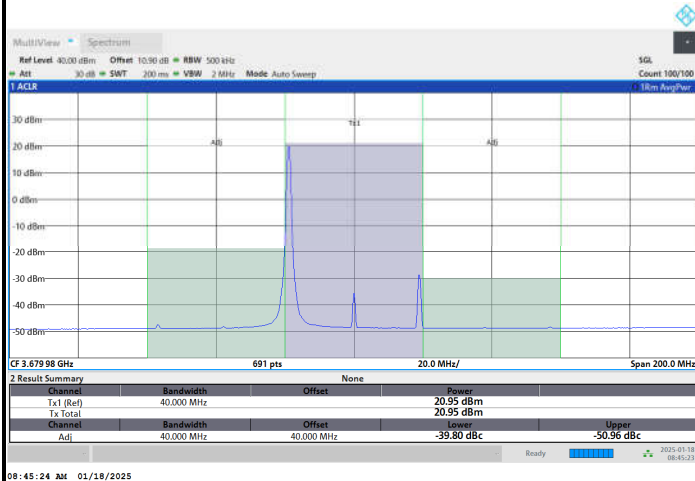




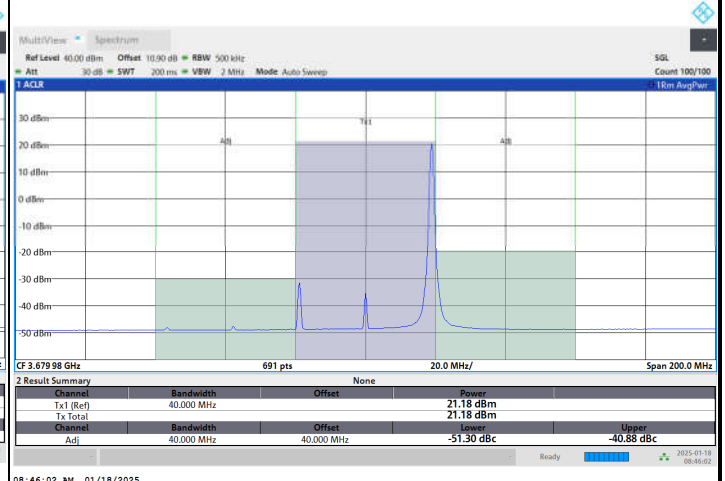
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

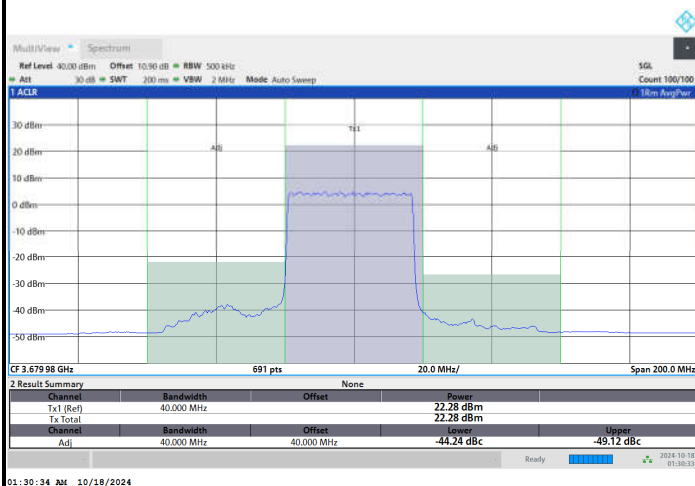
1RB0



1RBmax



Full RB

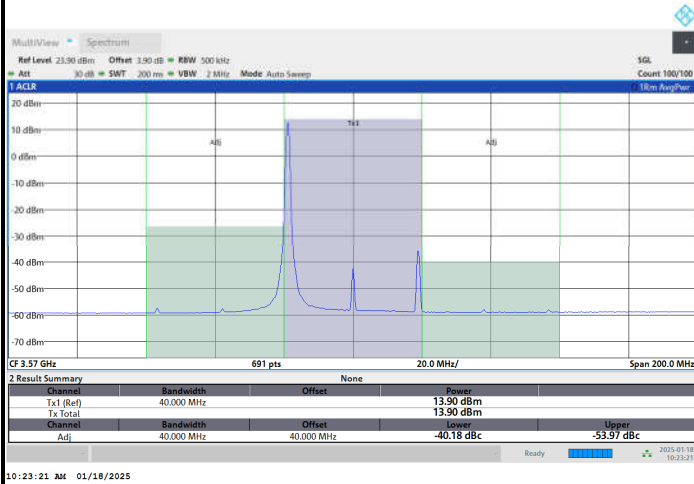




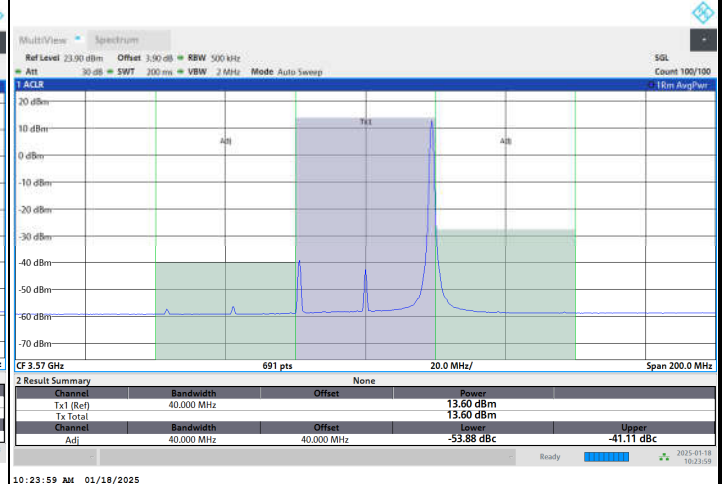
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel

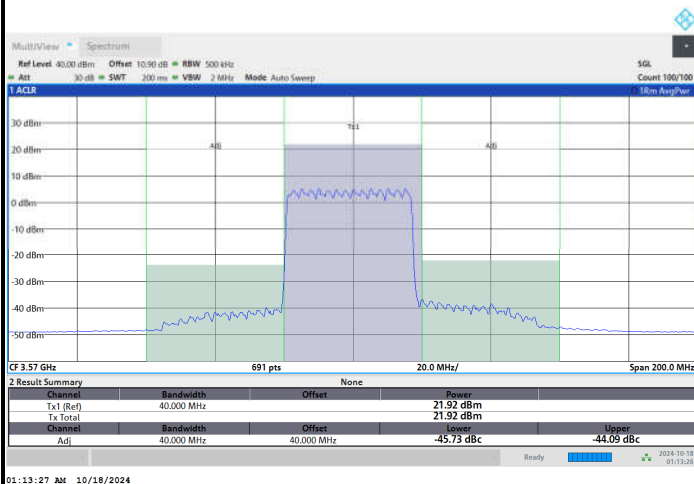
1RB0



1RBmax



Full RB

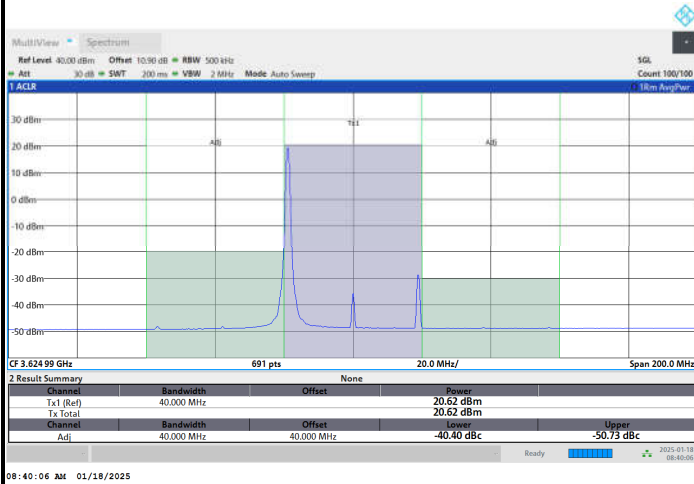




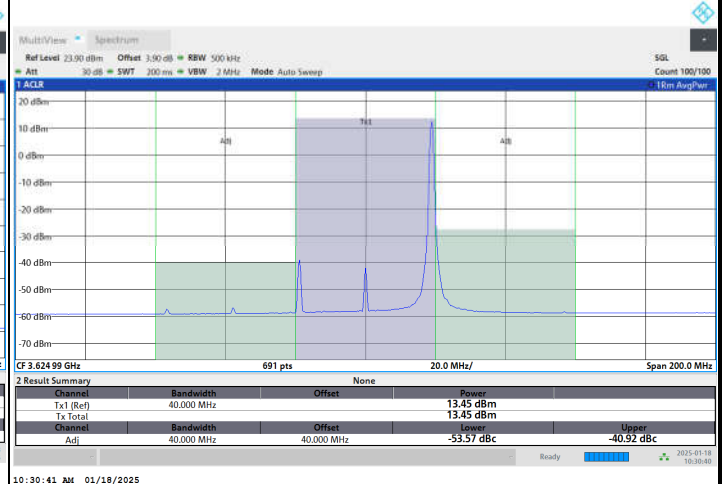
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Middle Channel

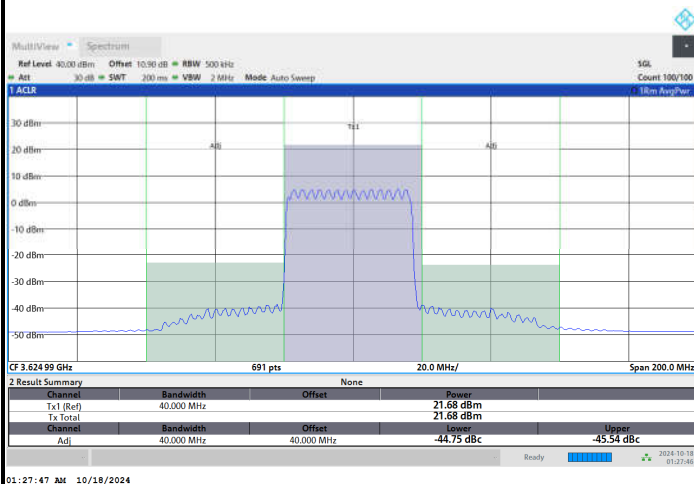
1RB0



1RBmax



Full RB

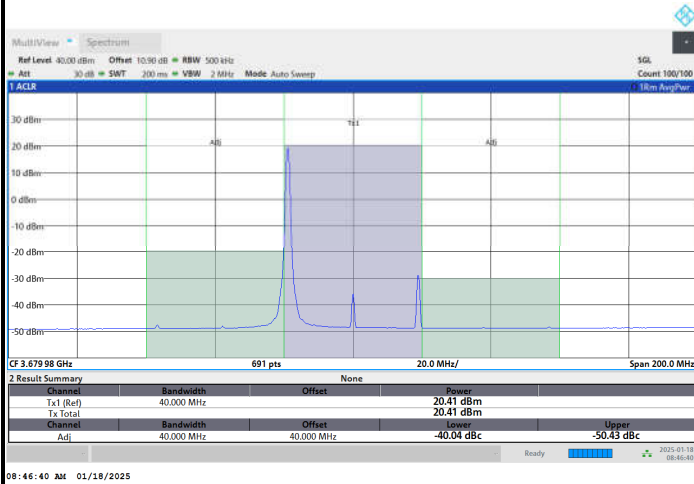




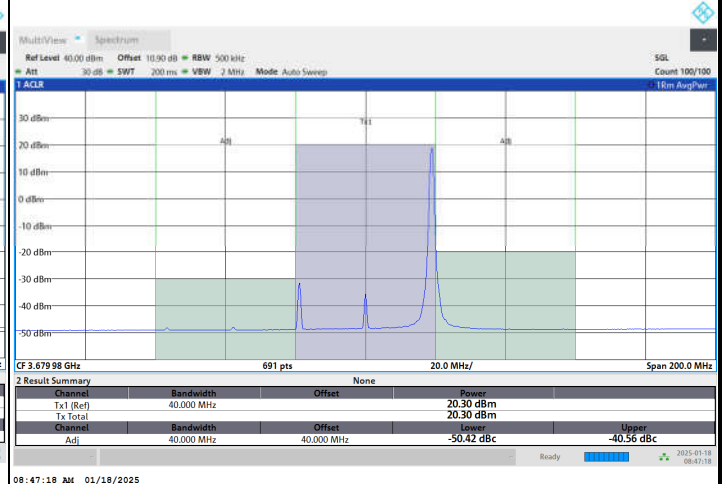
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Highest Channel

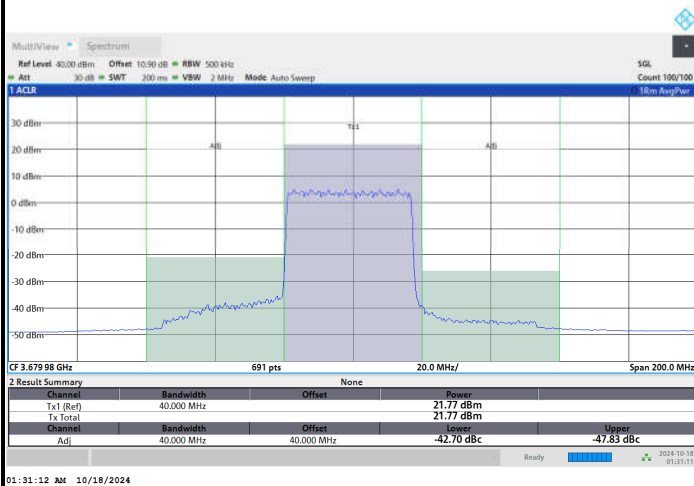
1RB0



1RBmax



Full RB

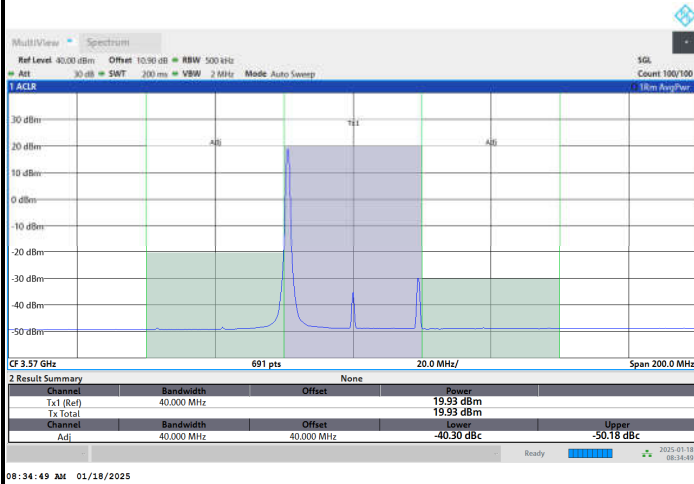




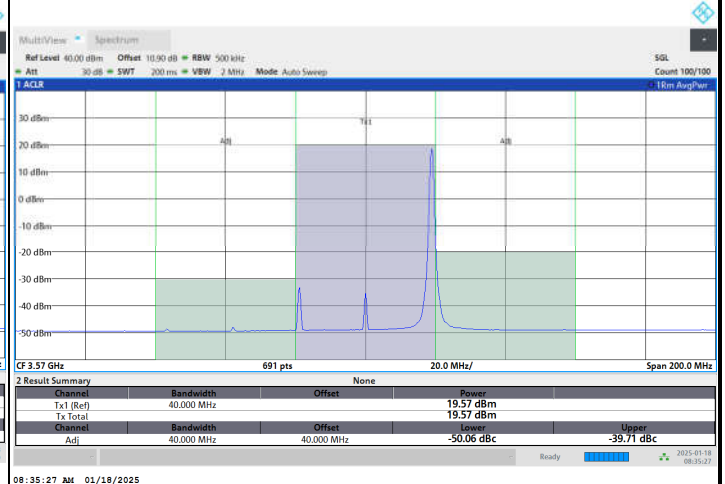
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Lowest Channel

1RB0



1RBmax



Full RB

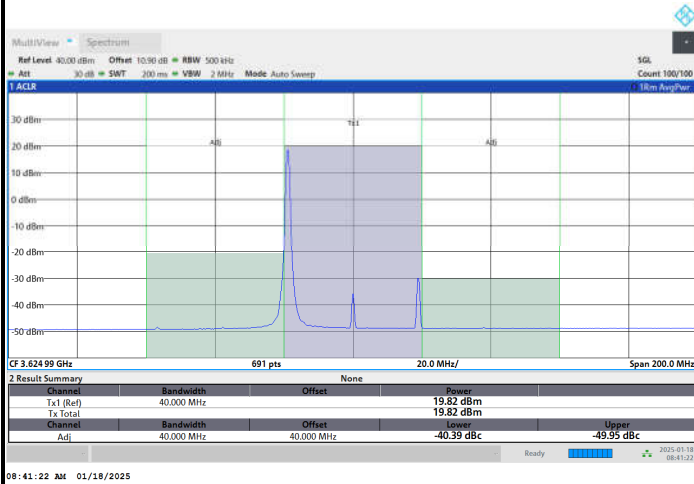




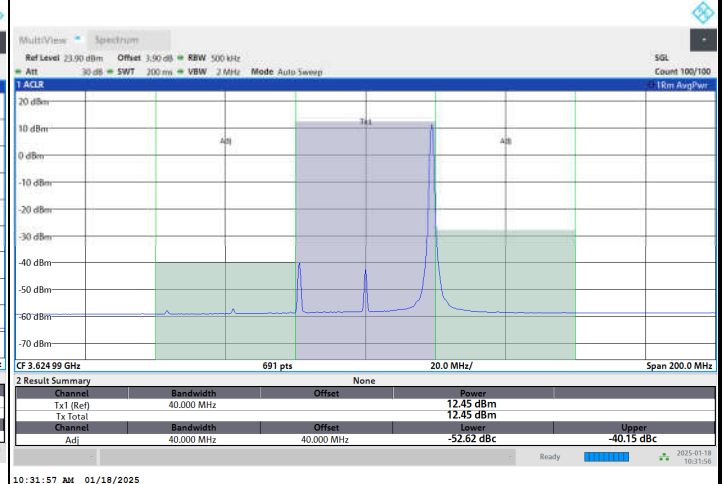
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Middle Channel

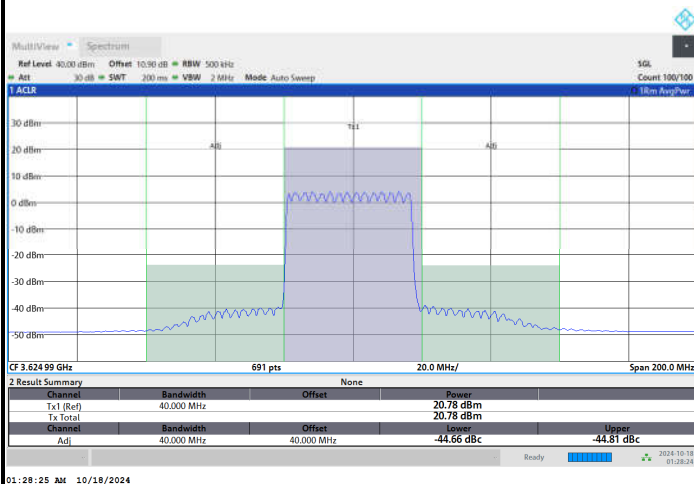
1RB0



1RBmax



Full RB

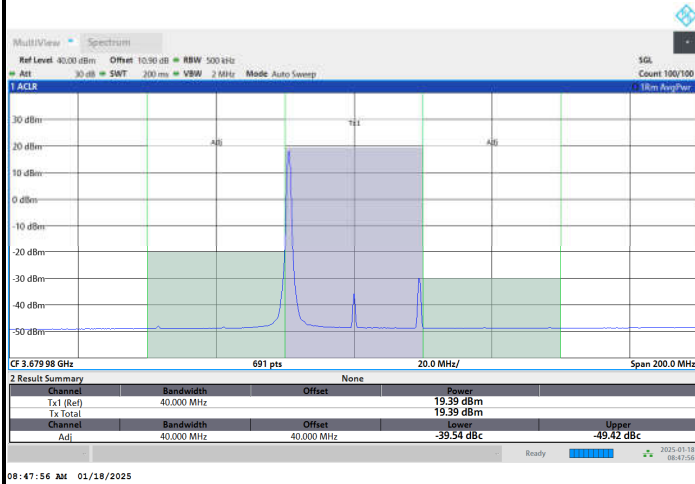




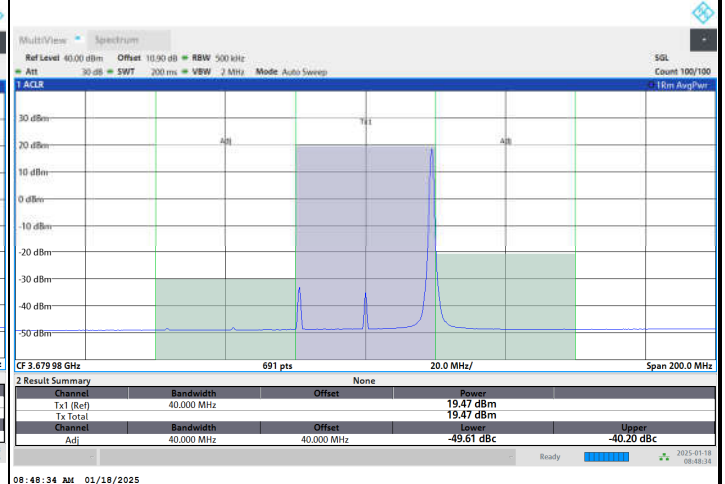
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Highest Channel

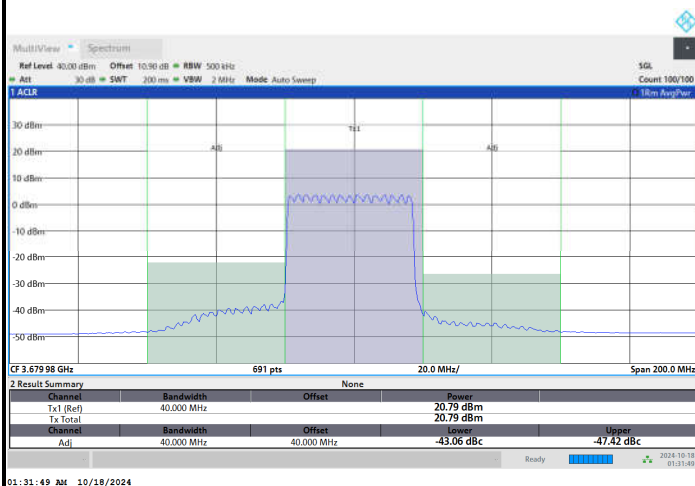
1RB0



1RBmax



Full RB

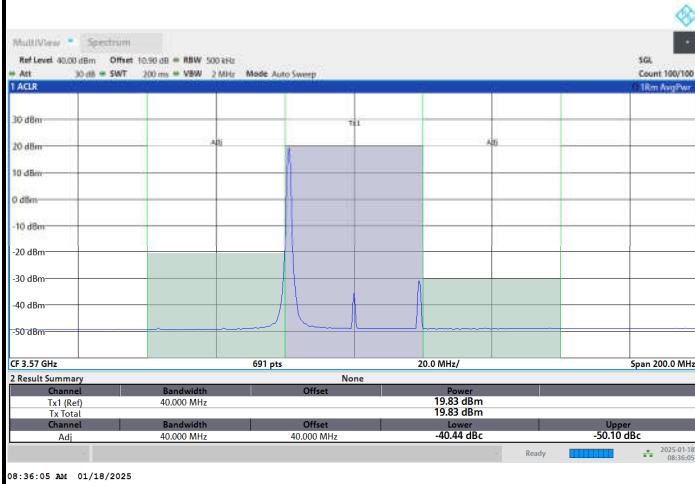




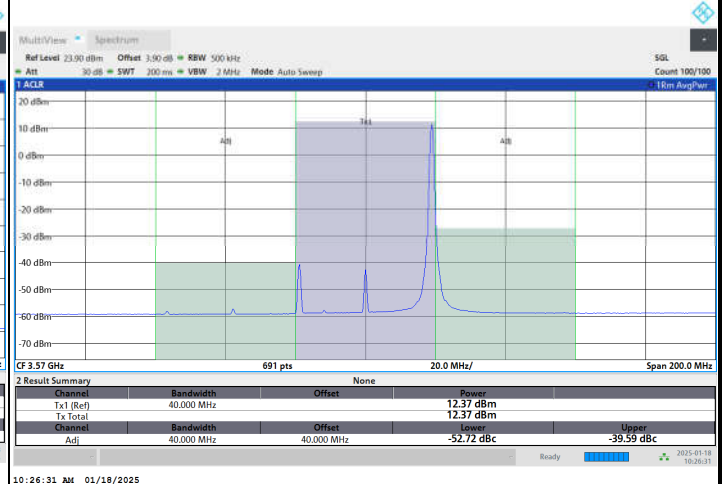
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Lowest Channel

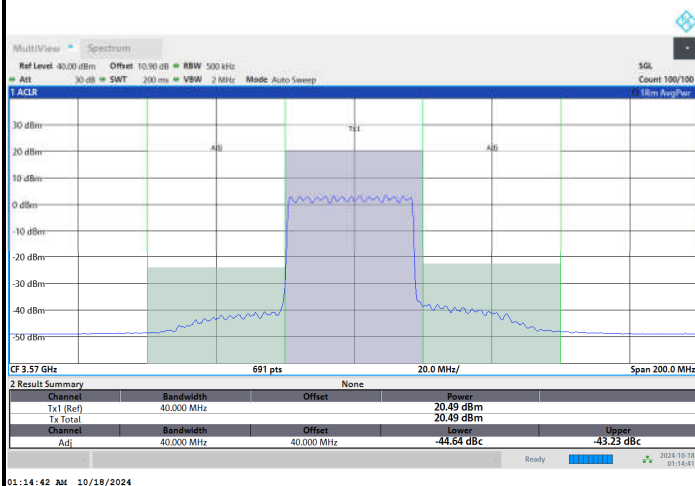
1RB0



1RBmax



Full RB

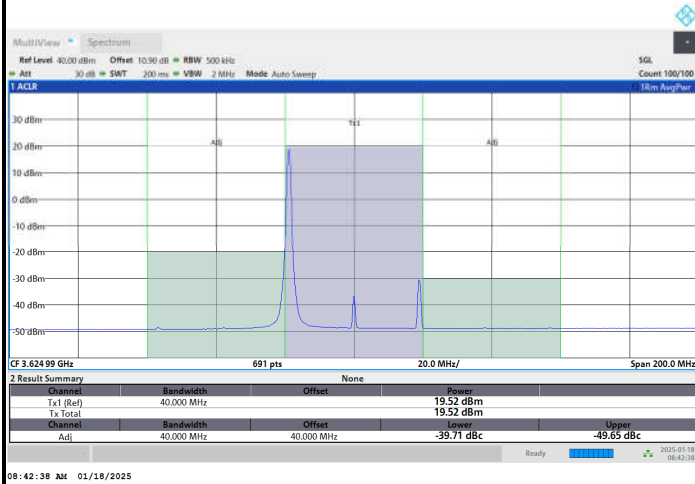




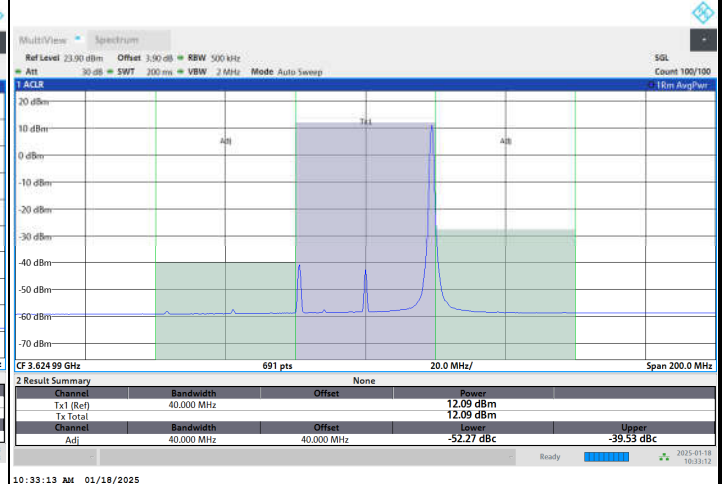
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Middle Channel

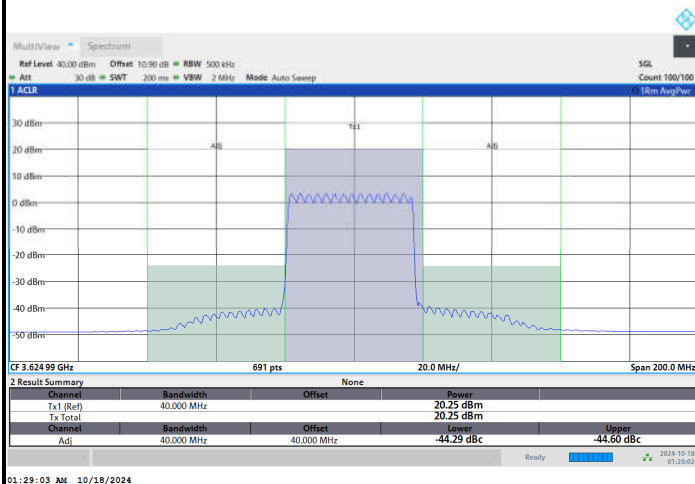
1RB0



1RBmax



Full RB

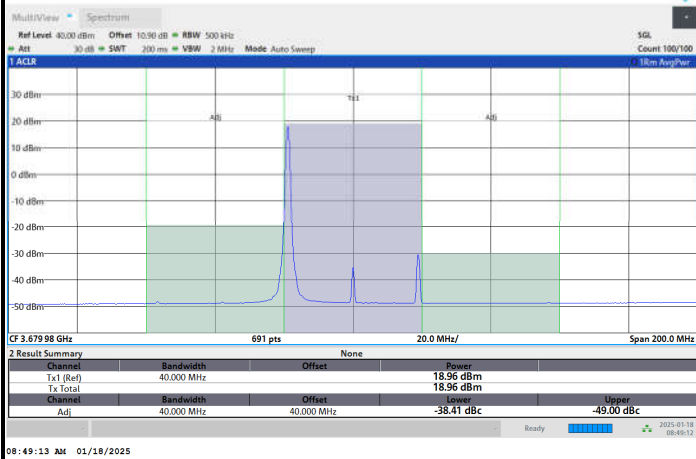




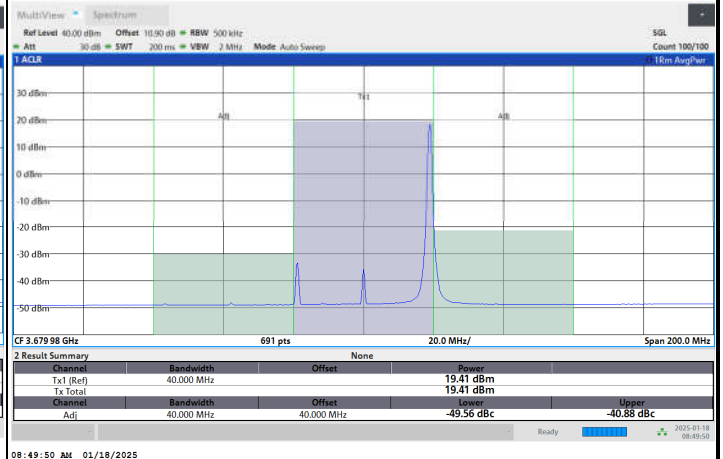
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Highest Channel

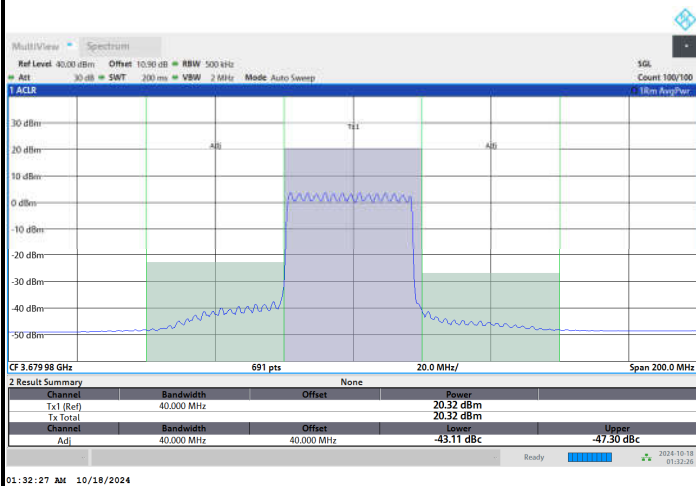
1RB0



1RBmax



Full RB

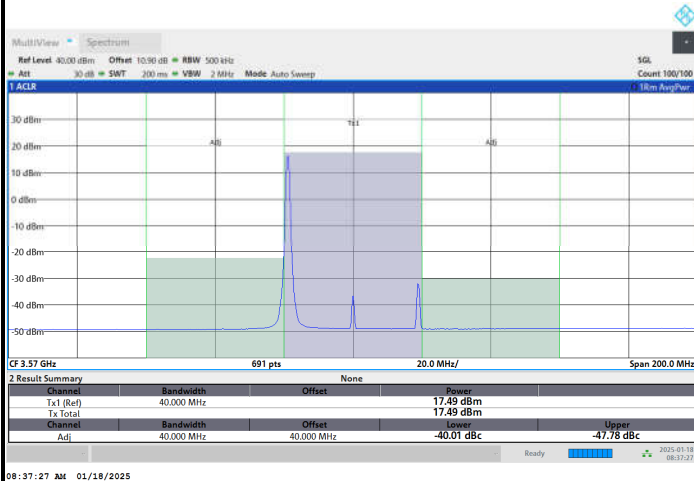




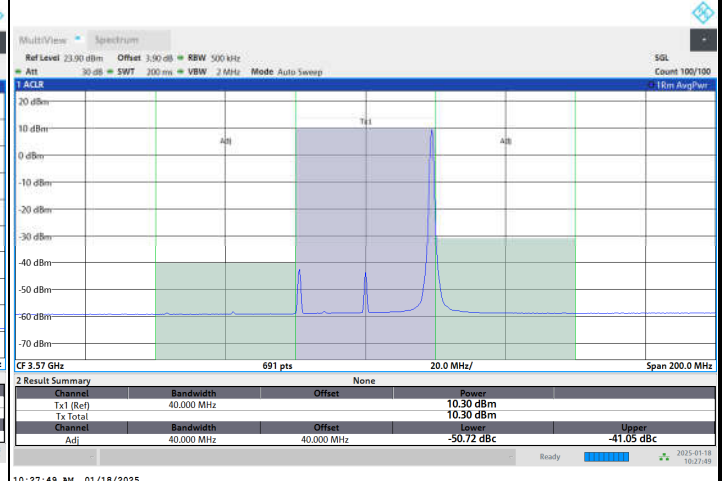
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Lowest Channel

1RB0



1RBmax



Full RB

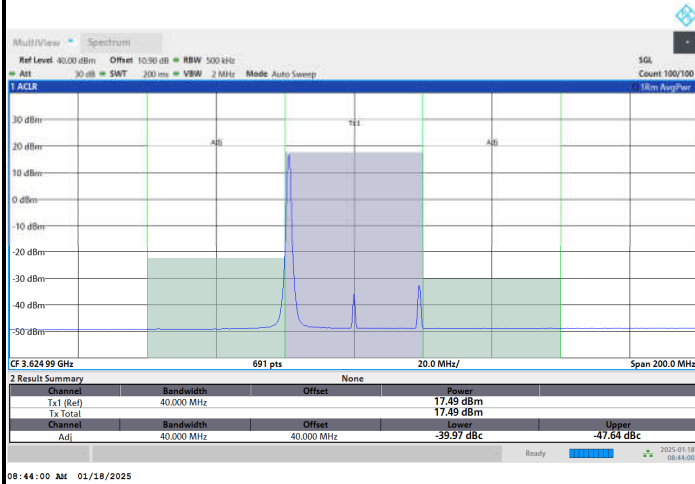




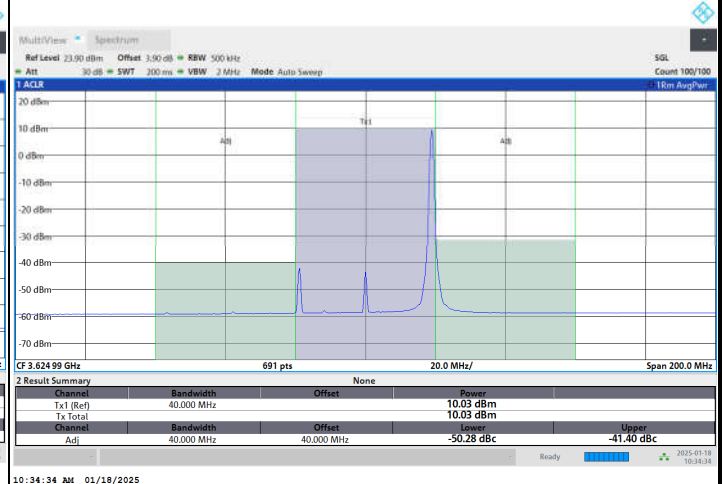
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Middle Channel

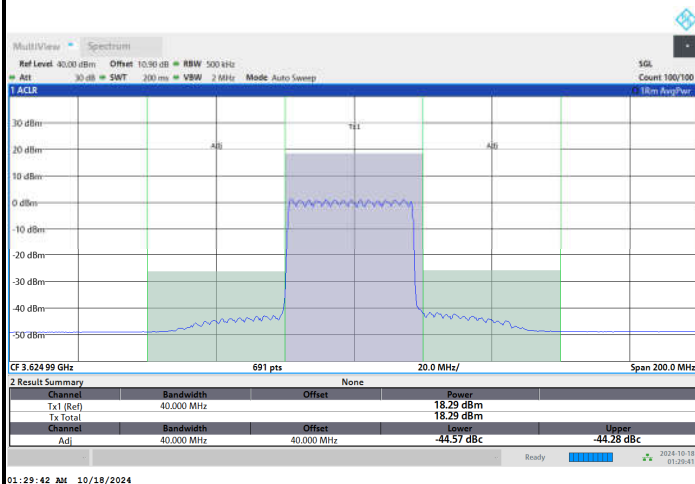
1RB0



1RBmax



Full RB

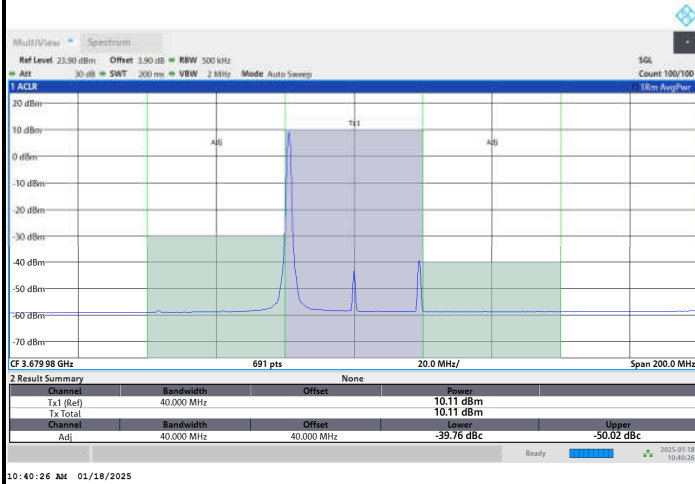




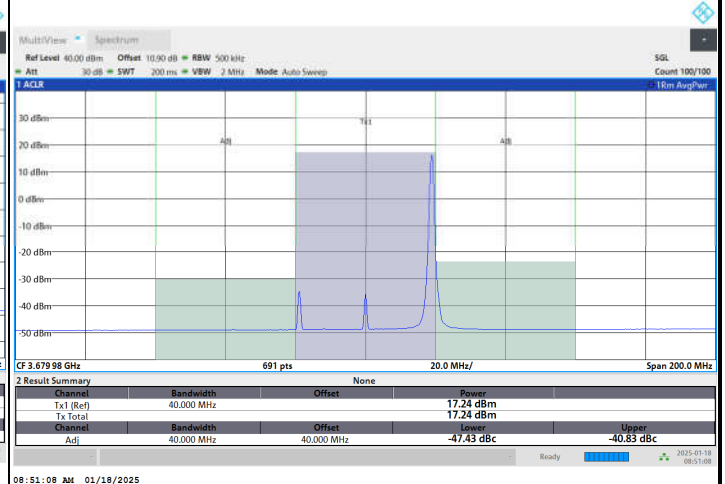
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Highest Channel

1RB0



1RBmax



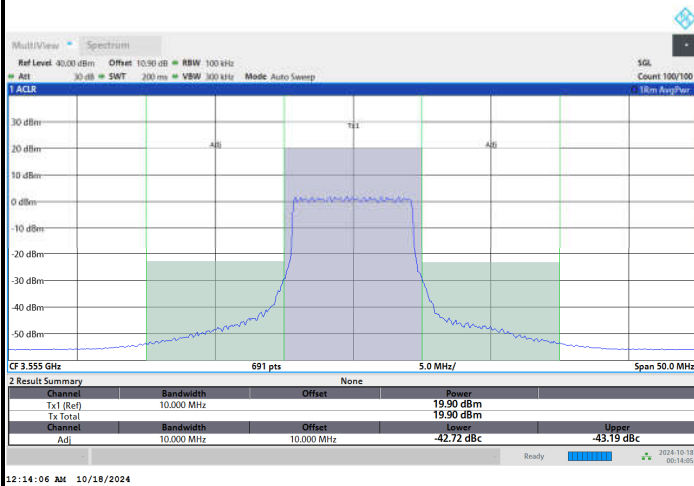
Full RB



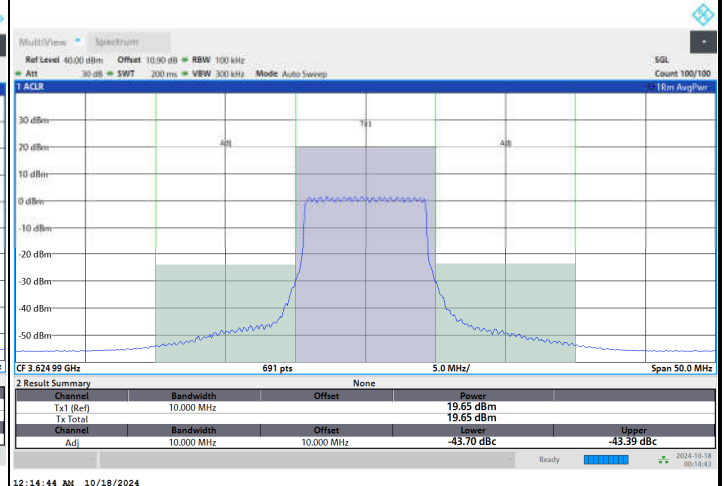


FR1 n48 / 10MHz / CP OFDM / QPSK / Full RB

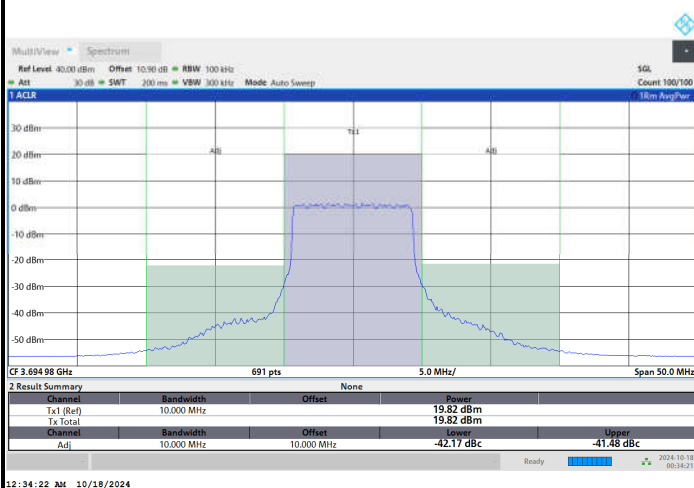
Lowest Channel



Middle Channel



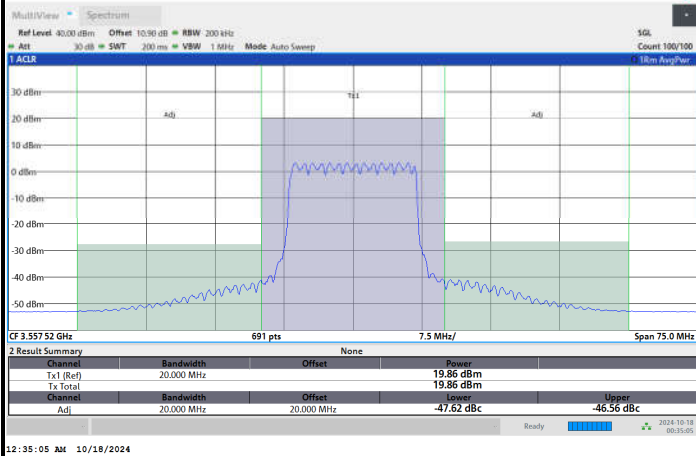
Highest Channel



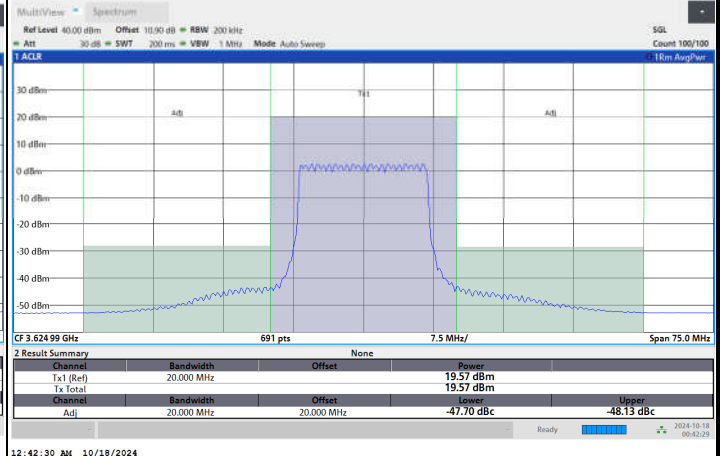


FR1 n48 / 15MHz / CP OFDM / QPSK / Full RB

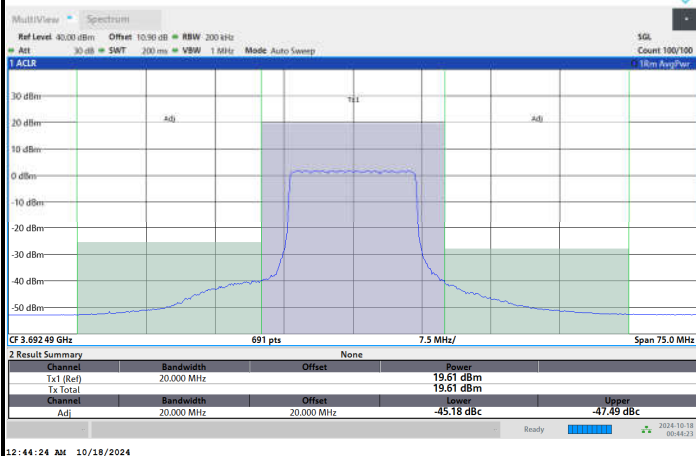
Lowest Channel



Middle Channel



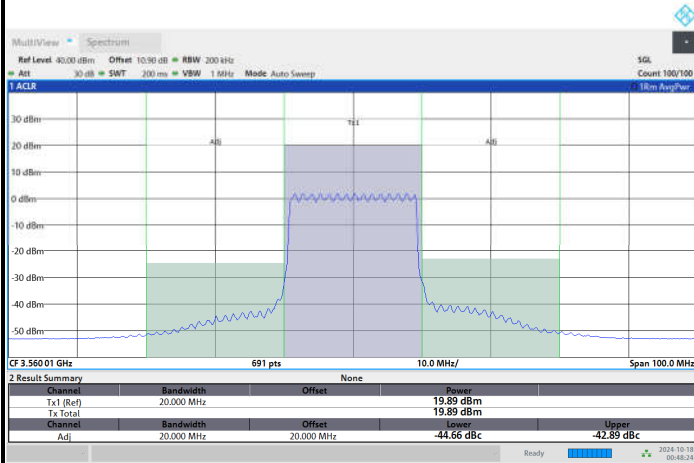
Highest Channel





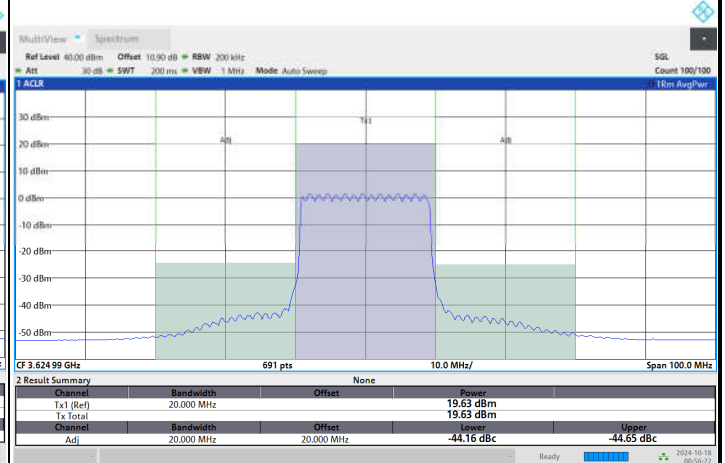
FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Channel



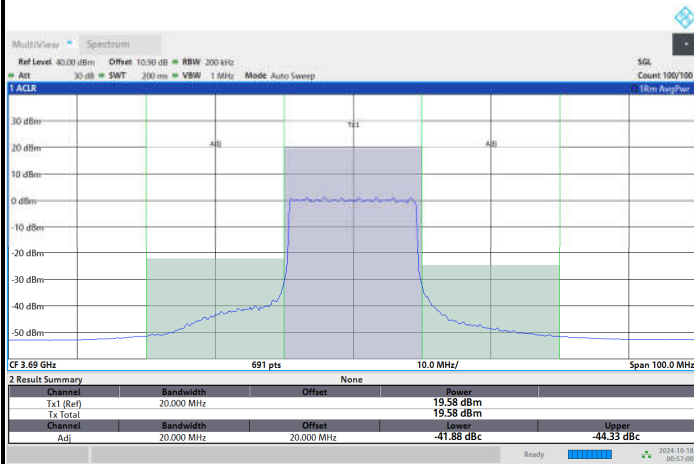
12:48:25 AM 10/18/2024

Middle Channel



12:56:23 AM 10/18/2024

Highest Channel

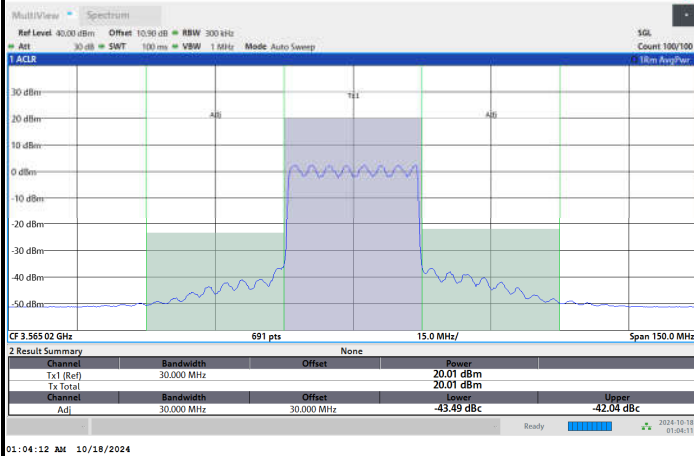


12:57:01 AM 10/18/2024



FR1 n48 / 30MHz / CP OFDM / QPSK / Full RB

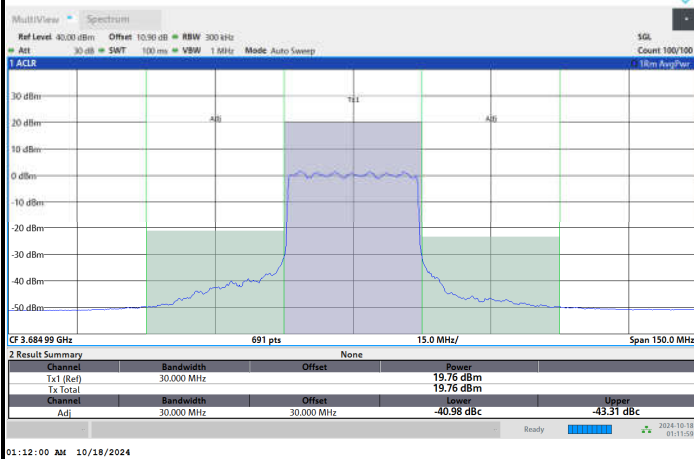
Lowest Channel



Middle Channel



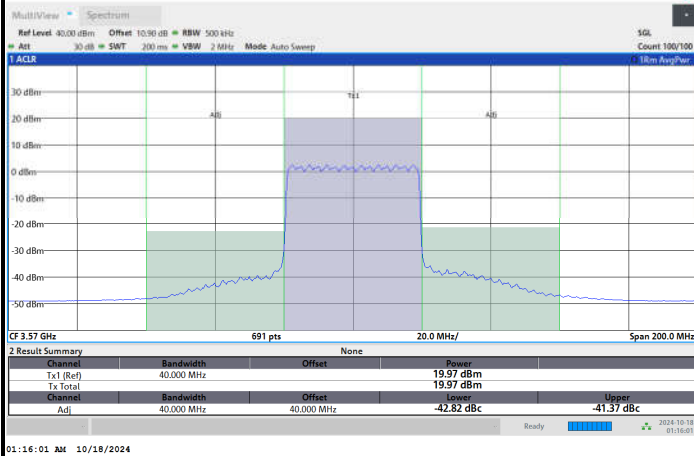
Highest Channel



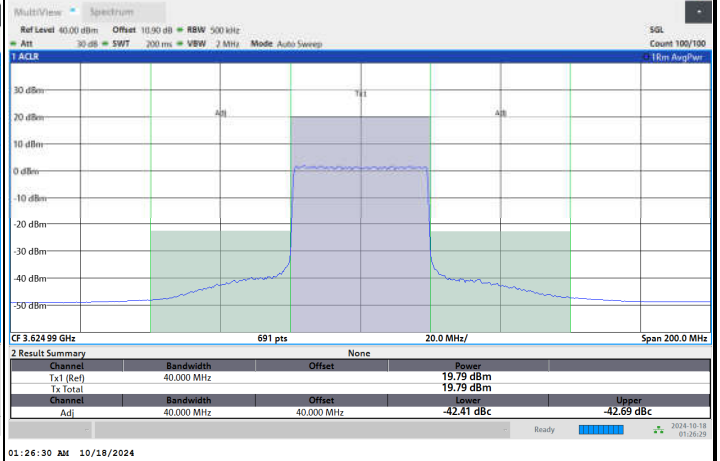


FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB

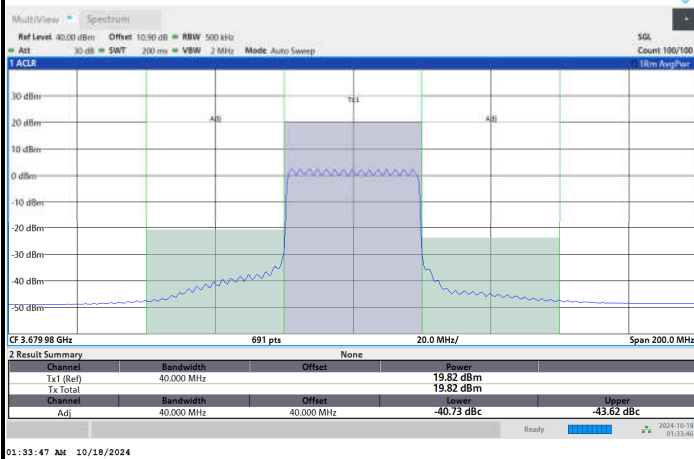
Lowest Channel



Middle Channel



Highest Channel

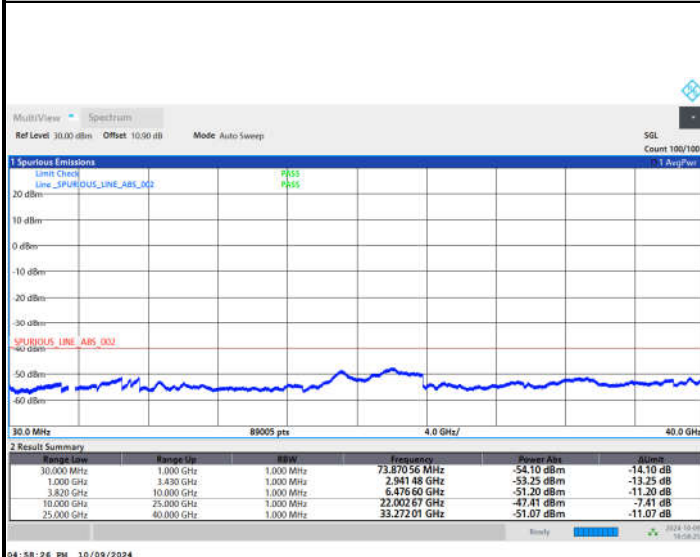




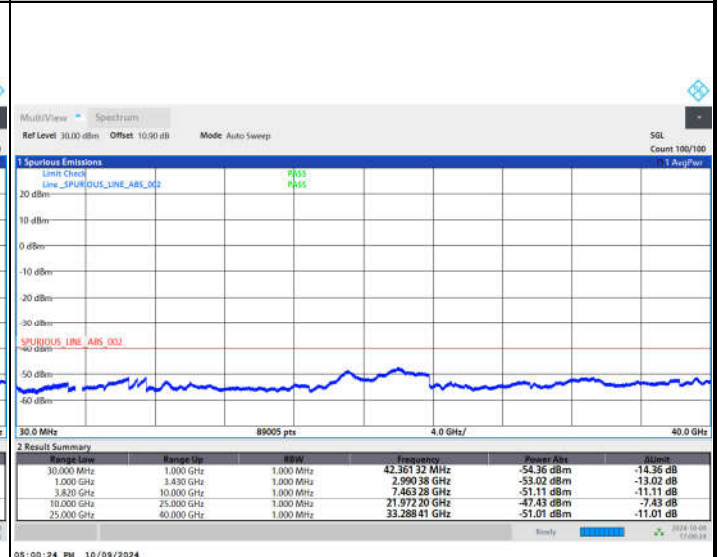
Conducted Spurious Emission

FR1 n48 / 10MHz / DFT-S OFDM / QPSK / 1RB1

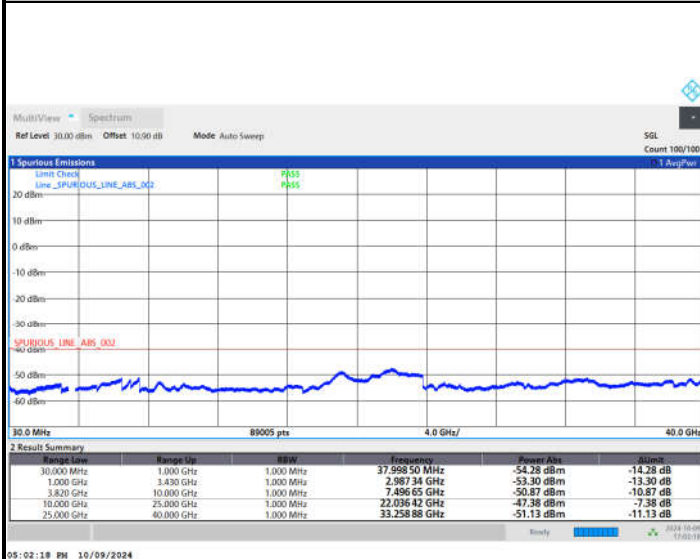
Lowest Channel



Middle Channel



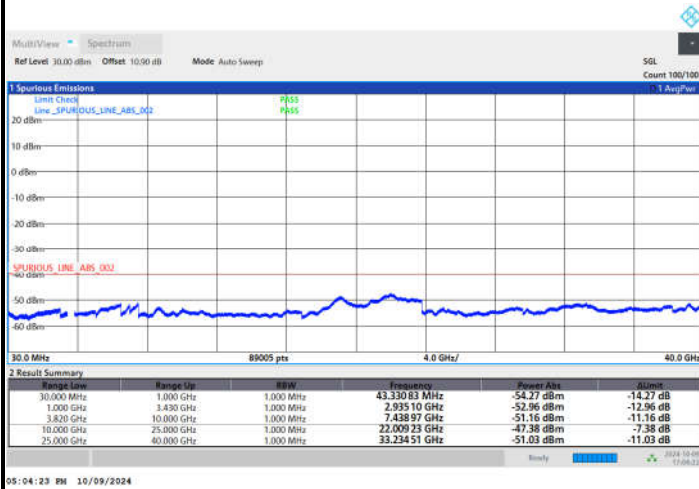
Highest Channel



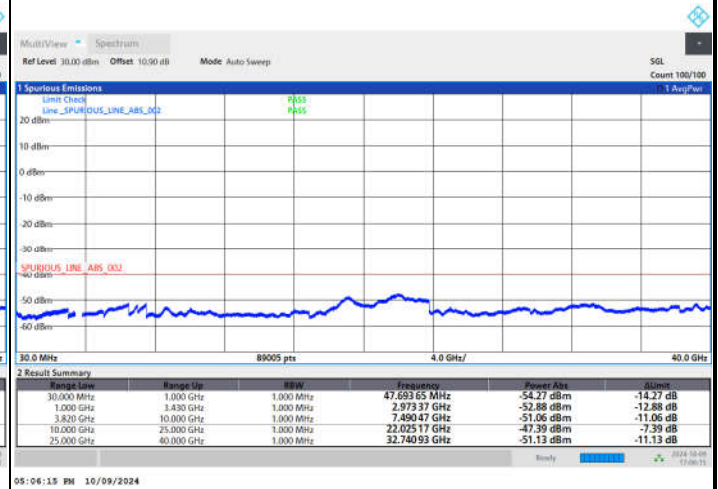


FR1 n48 / 15MHz / DFT-S OFDM / QPSK / 1RB1

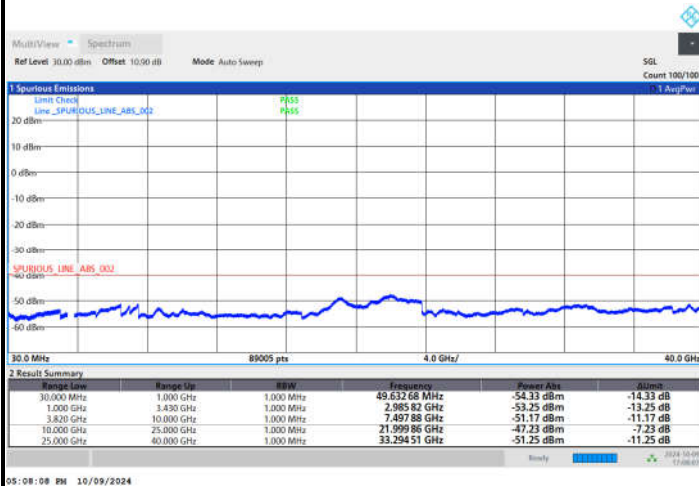
Lowest Channel



Middle Channel



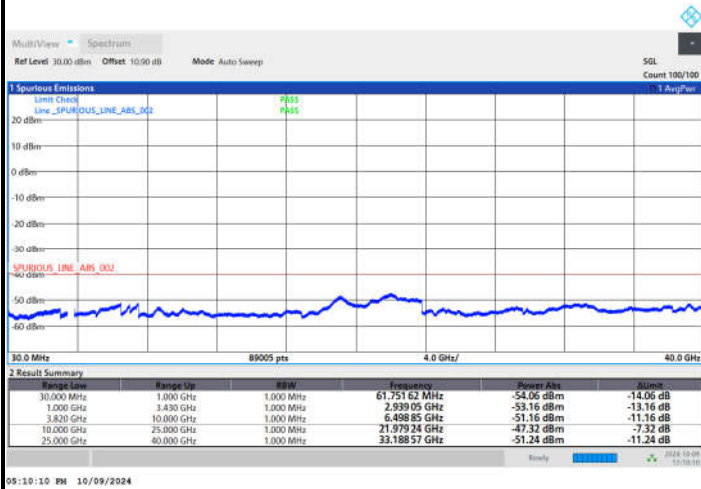
Highest Channel



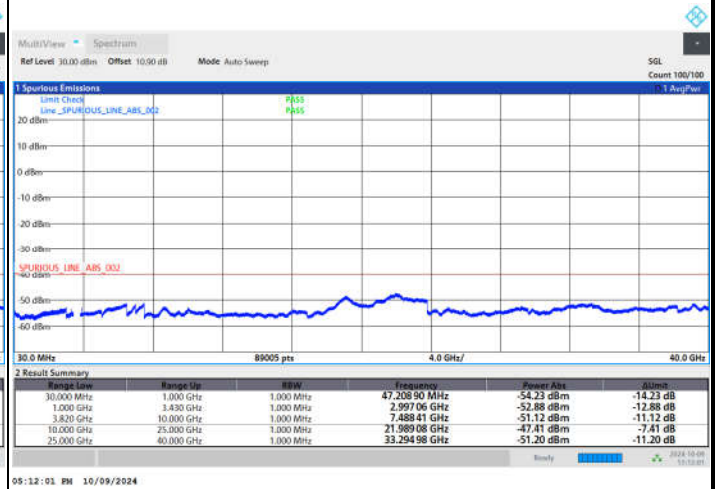


FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

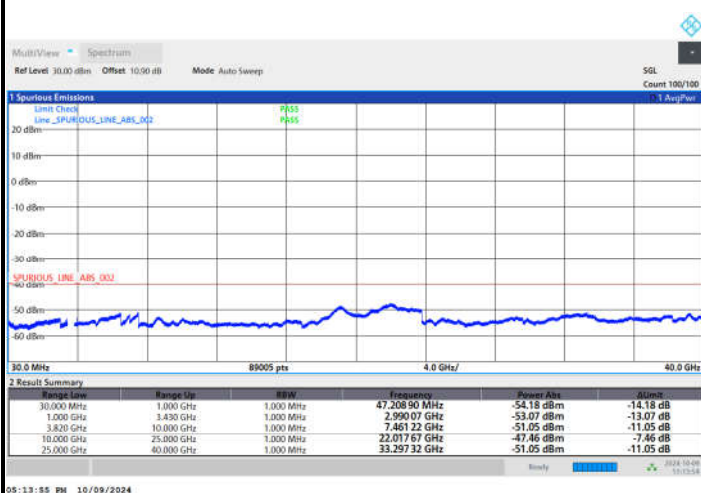
Lowest Channel



Middle Channel



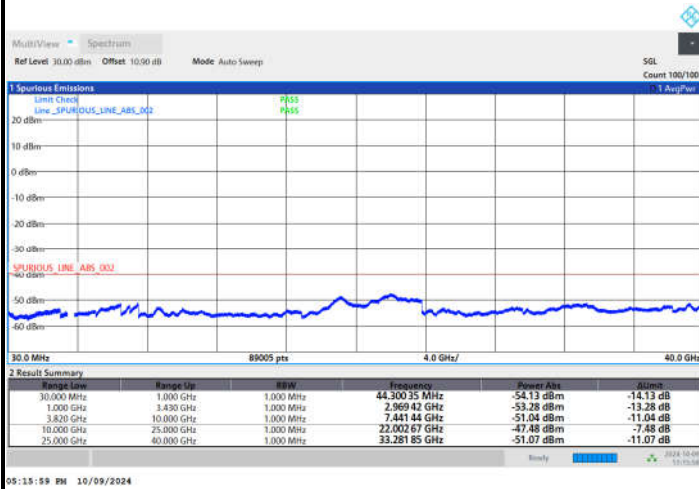
Highest Channel



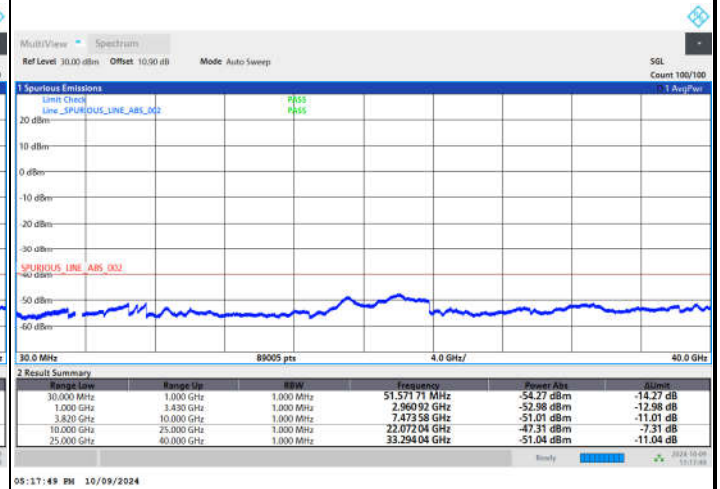


FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



Middle Channel



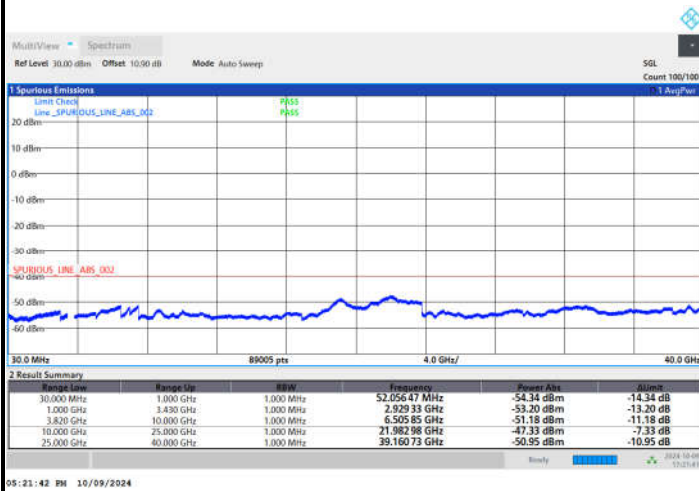
Highest Channel



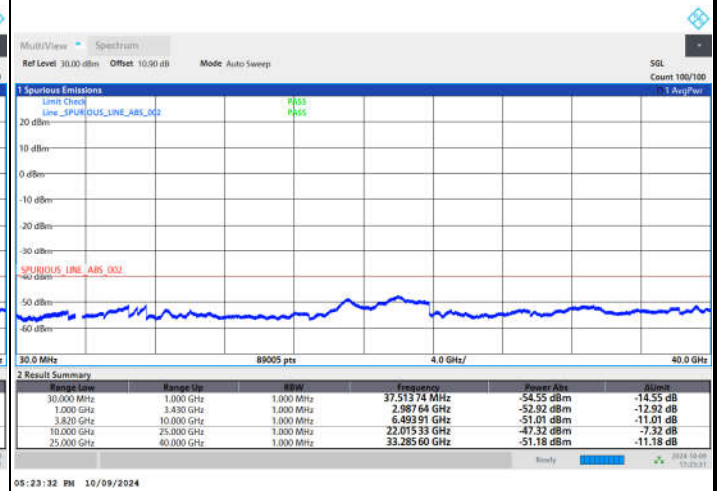


FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

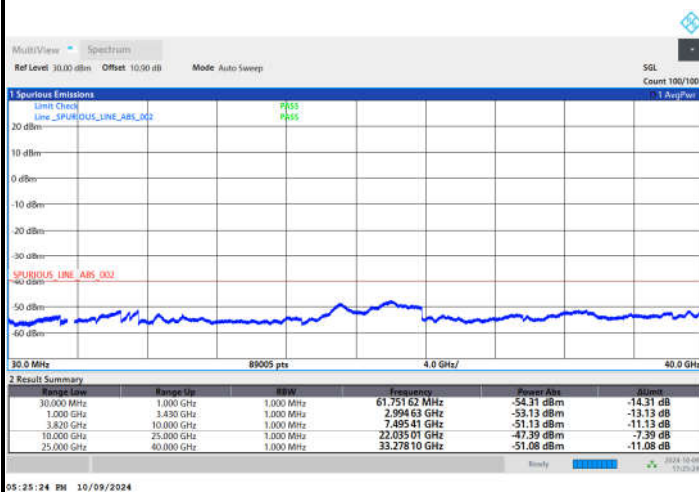
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (PI/2 BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0115	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0185	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0134	
-10	Normal Voltage	0.0111	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0220	
20	Maximum Voltage	0.0179	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0070	

Note:

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**Appendix B. Test Results of Radiated Test****B1. Summary of each worse mode**

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 96	NR SA n48	H	7325	-44.07	RMS	36.75	-20.76	1.00	-95.23	34.17	-40.00	-4.07	V	Ant2
2	Part 96	NR SA n48	L	14209	-49.77	RMS	41.20	-21.97	0.46	-95.23	25.77	-40.00	-9.77	V	Ant2+0

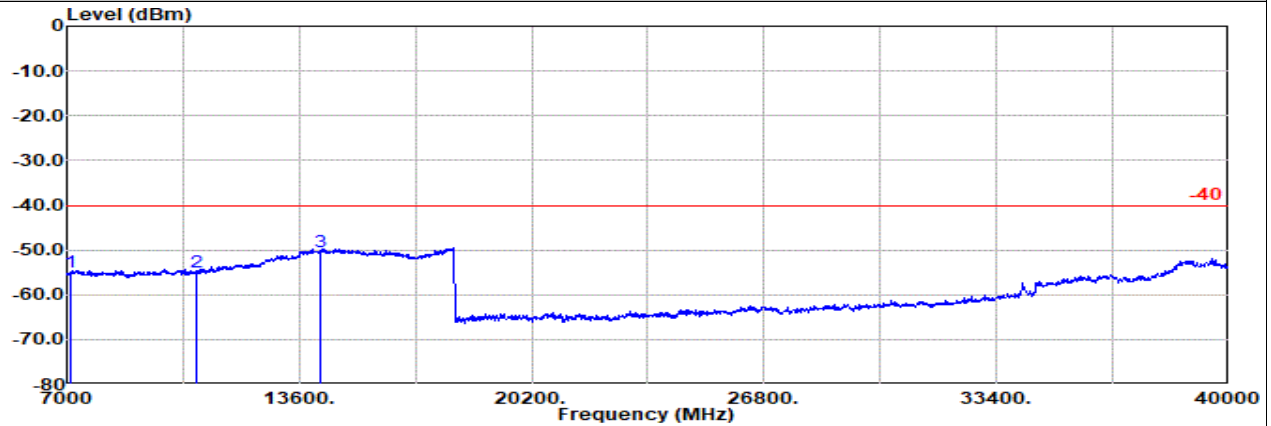


Ant2

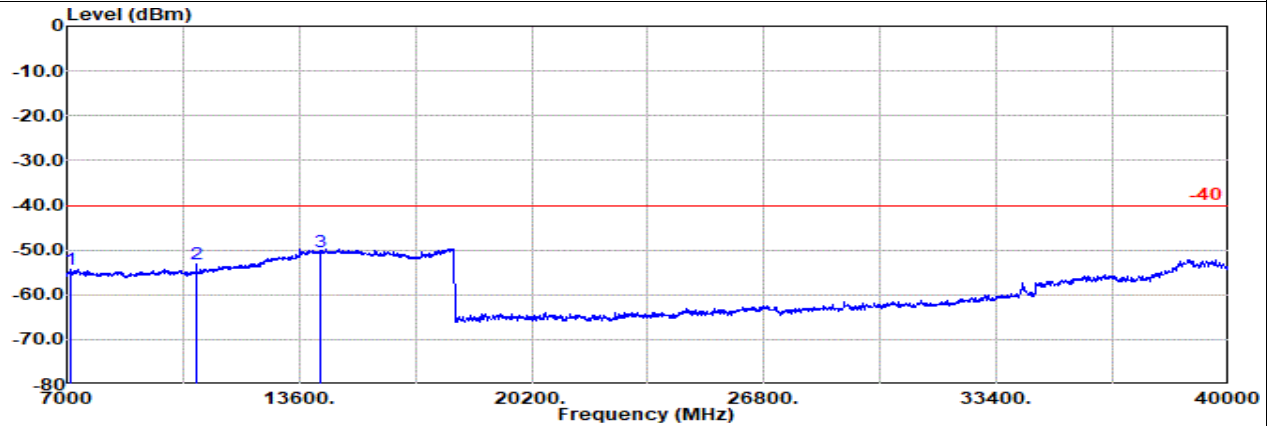
Part 96 Mode 1

NR SA n48 40M Ch638000 1RB1 PI/2 BPSK

L



	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBm	dB	
1	7105.00	-54.82	RMS	36.31	-20.87	1.20	-95.23	23.77	-40.00	-14.82	Horizontal
2	10657.00	-54.95	RMS	37.50	-21.43	0.56	-95.23	23.65	-40.00	-14.95	Horizontal
3	14209.00	-50.29	RMS	41.20	-21.97	0.46	-95.23	25.25	-40.00	-10.29	Horizontal



	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBm	dB	
1	7105.00	-54.41	RMS	36.31	-20.87	1.20	-95.23	24.18	-40.00	-14.41	Vertical
2	10657.00	-53.14	RMS	37.50	-21.43	0.56	-95.23	25.46	-40.00	-13.14	Vertical
3	14209.00	-50.45	RMS	41.20	-21.97	0.46	-95.23	25.09	-40.00	-10.45	Vertical

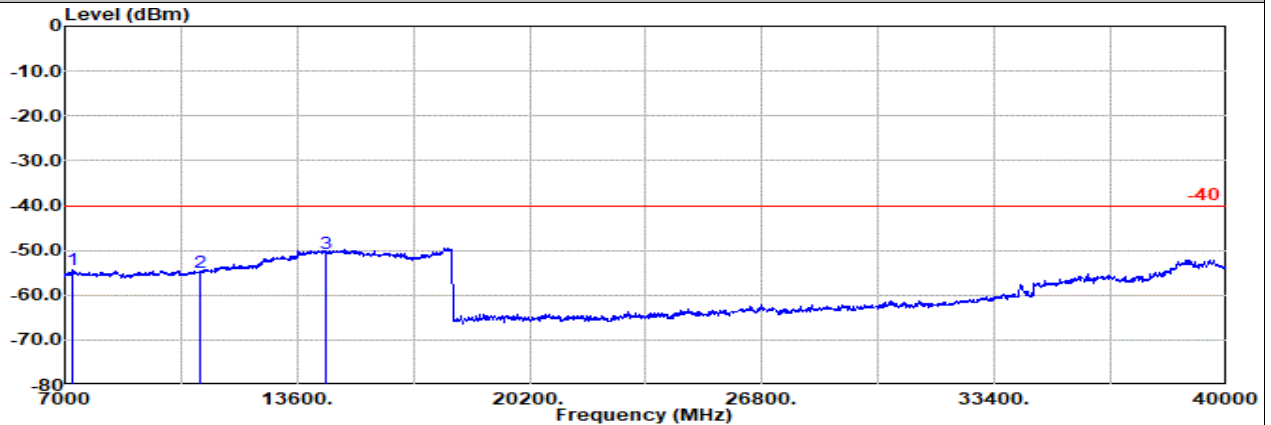


Ant2

Part 96 Mode 1

NR SA n48 40M Ch641666 1RB1 PI/2 BPSK

M

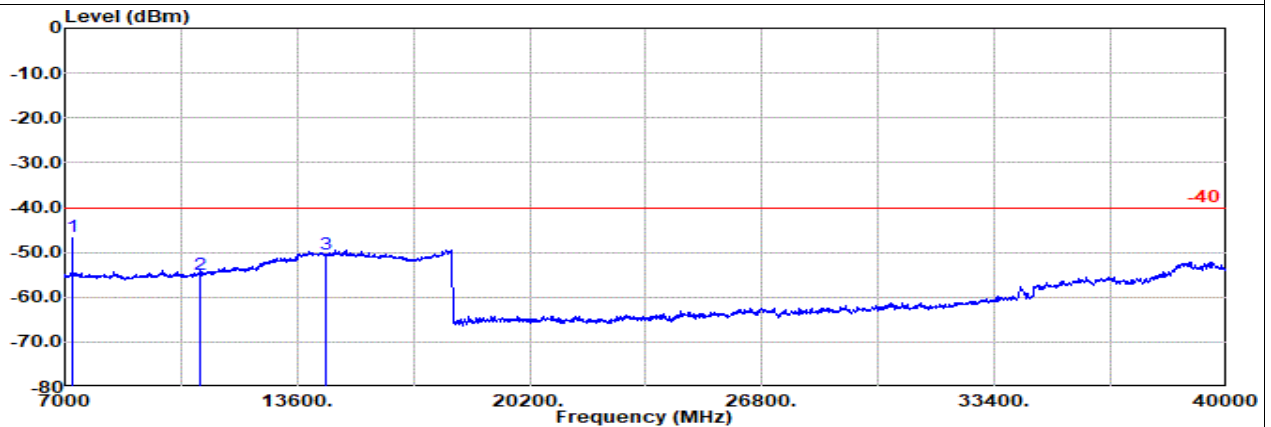


Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Horizontal

: SA n48 40M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB		
1	7215.00	-54.38	RMS	36.53	-20.82	1.08	-95.23	24.06	-40.00	-14.38	Horizontal			
2	10822.00	-55.03	RMS	37.50	-21.42	0.55	-95.23	23.57	-40.00	-15.03	Horizontal			
3	14429.00	-50.68	RMS	41.20	-22.47	0.47	-95.23	25.35	-40.00	-10.68	Horizontal			



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Vertical

: SA n48 40M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB		
1	7215.00	-46.43	RMS	36.53	-20.82	1.08	-95.23	32.01	-40.00	-6.43	Vertical			
2	10822.00	-54.90	RMS	37.50	-21.42	0.55	-95.23	23.70	-40.00	-14.90	Vertical			
3	14429.00	-50.41	RMS	41.20	-22.47	0.47	-95.23	25.62	-40.00	-10.41	Vertical			

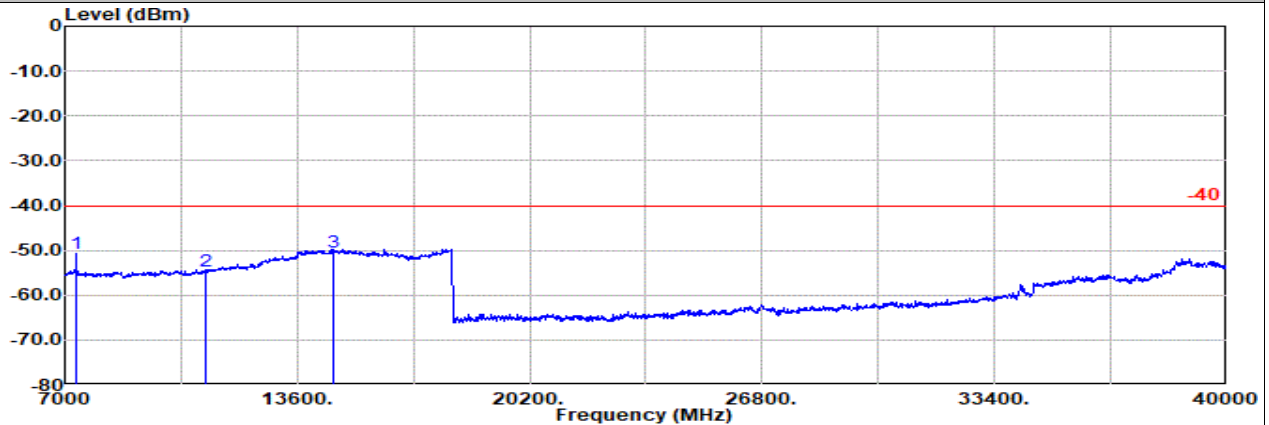


Ant2

Part 96 Mode 1

NR SA n48 40M Ch645332 1RB1 PI/2 BPSK

H

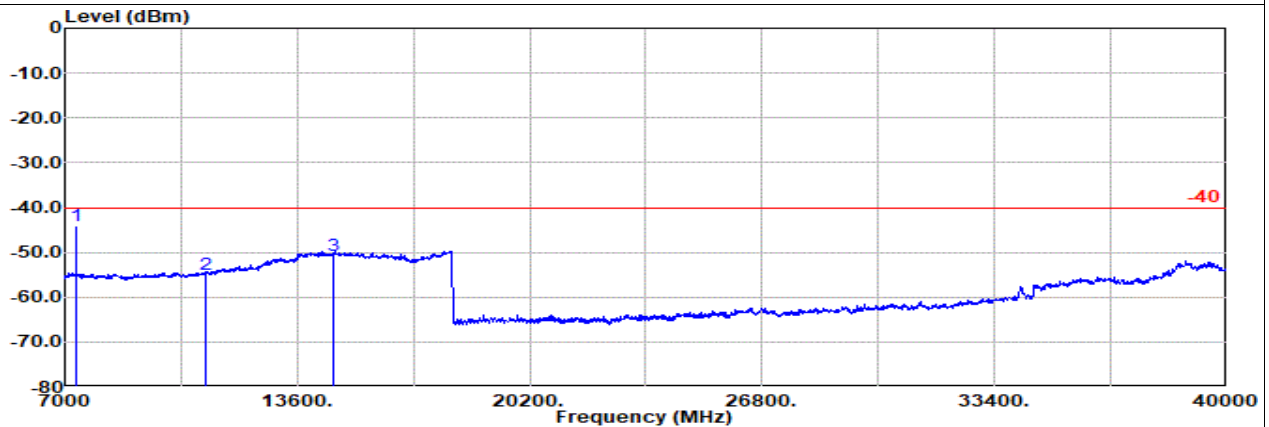


Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Horizontal

: SA n48 40M Ch645332 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	7325.00	-50.75	RMS		36.75	-20.76	1.00	-95.23	27.49	-40.00	-10.75	Horizontal
2	10987.00	-54.49	RMS		37.67	-21.40	0.54	-95.23	23.93	-40.00	-14.49	Horizontal
3	14649.00	-50.34	RMS		41.40	-22.57	0.48	-95.23	25.58	-40.00	-10.34	Horizontal



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Vertical

: SA n48 40M Ch645332 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	7325.00	-44.07	RMS		36.75	-20.76	1.00	-95.23	34.17	-40.00	-4.07	Vertical
2	10987.00	-54.94	RMS		37.67	-21.40	0.54	-95.23	23.48	-40.00	-14.94	Vertical
3	14649.00	-50.59	RMS		41.40	-22.57	0.48	-95.23	25.33	-40.00	-10.59	Vertical

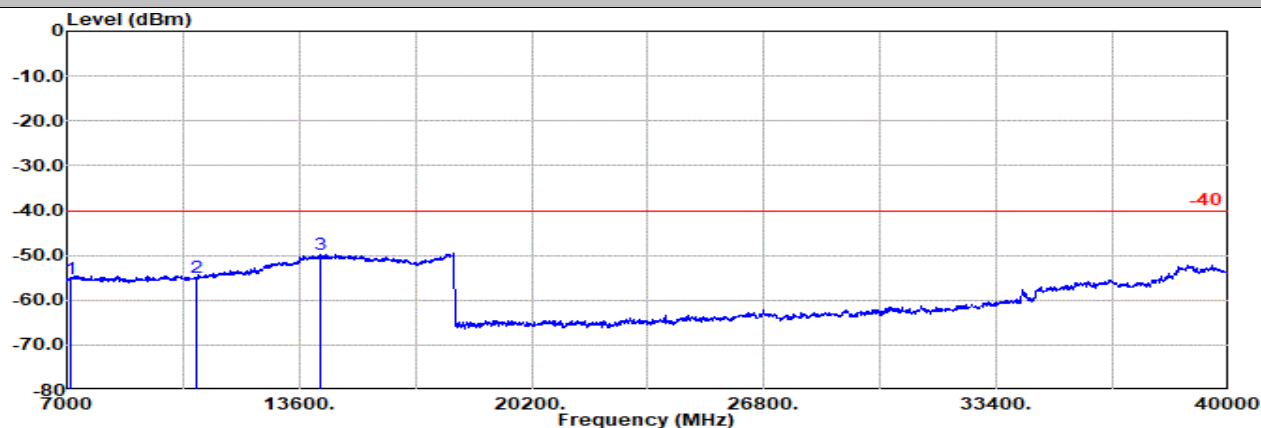


Ant2+0

Part 96 Mode 2

NR SA n48 40M Ch638000 1RB1 QPSK

L

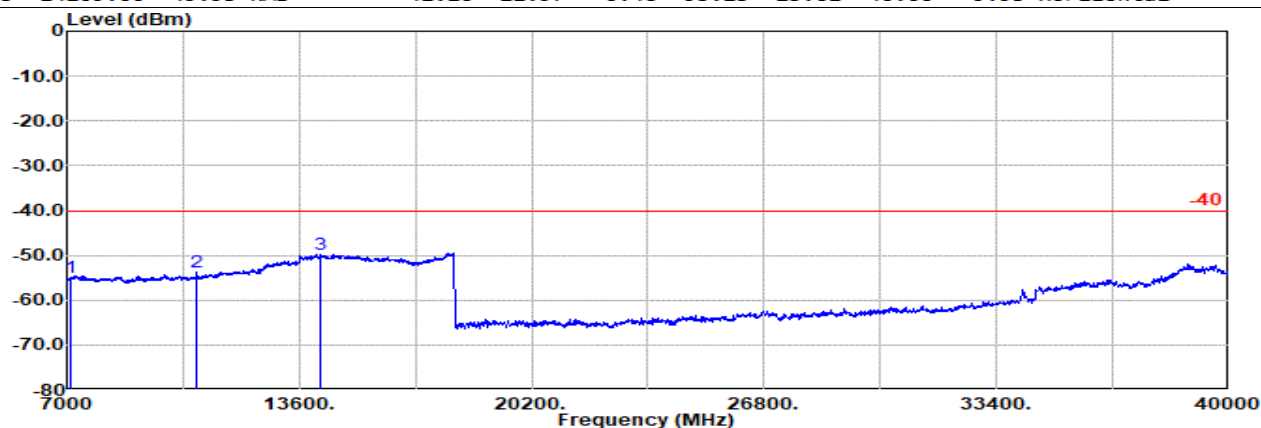


Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Horizontal

: SA n48 40M Ch638000 1RB1 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7105.00	-55.21	RMS	36.31	-20.87	1.20	-95.23	23.38	-40.00	-15.21	Horizontal			
2	10657.00	-54.81	RMS	37.50	-21.43	0.56	-95.23	23.79	-40.00	-14.81	Horizontal			
3	14209.00	-49.93	RMS	41.20	-21.97	0.46	-95.23	25.61	-40.00	-9.93	Horizontal			



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Vertical

: SA n48 40M Ch638000 1RB1 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7105.00	-55.04	RMS	36.31	-20.87	1.20	-95.23	23.55	-40.00	-15.04	Vertical			
2	10657.00	-53.63	RMS	37.50	-21.43	0.56	-95.23	24.97	-40.00	-13.63	Vertical			
3	14209.00	-49.77	RMS	41.20	-21.97	0.46	-95.23	25.77	-40.00	-9.77	Vertical			

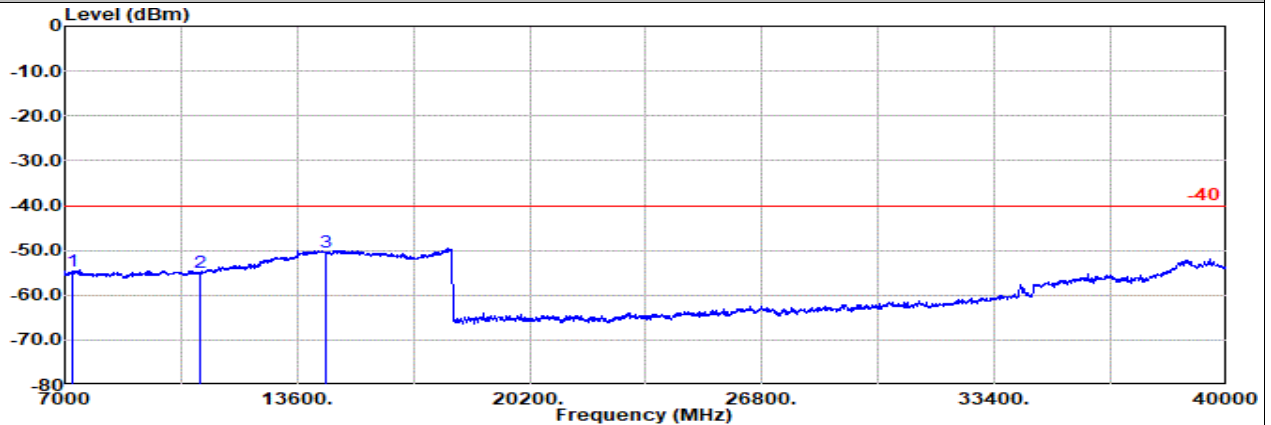


Ant2+0

Part 96 Mode 2

NR SA n48 40M Ch641666 1RB1 QPSK

M

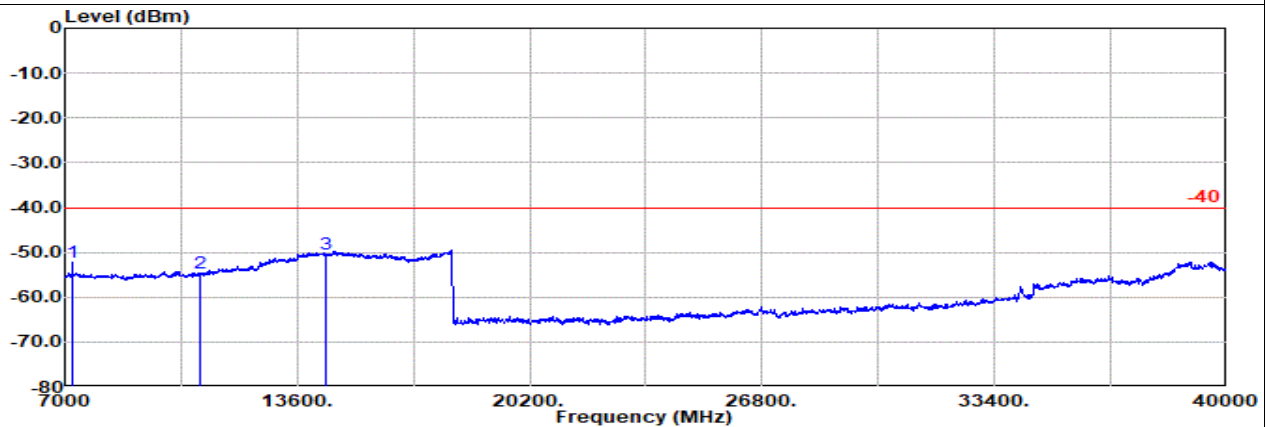


Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Horizontal

: SA n48 40M Ch641666 1RB1 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7215.00	-54.69	RMS	36.53	-20.82	1.08	-95.23	23.75	-40.00	-14.69	Horizontal			
2	10822.00	-54.81	RMS	37.50	-21.42	0.55	-95.23	23.79	-40.00	-14.81	Horizontal			
3	14429.00	-50.43	RMS	41.20	-22.47	0.47	-95.23	25.60	-40.00	-10.43	Horizontal			



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Vertical

: SA n48 40M Ch641666 1RB1 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7215.00	-52.35	RMS	36.53	-20.82	1.08	-95.23	26.09	-40.00	-12.35	Vertical			
2	10822.00	-54.79	RMS	37.50	-21.42	0.55	-95.23	23.81	-40.00	-14.79	Vertical			
3	14429.00	-50.40	RMS	41.20	-22.47	0.47	-95.23	25.63	-40.00	-10.40	Vertical			

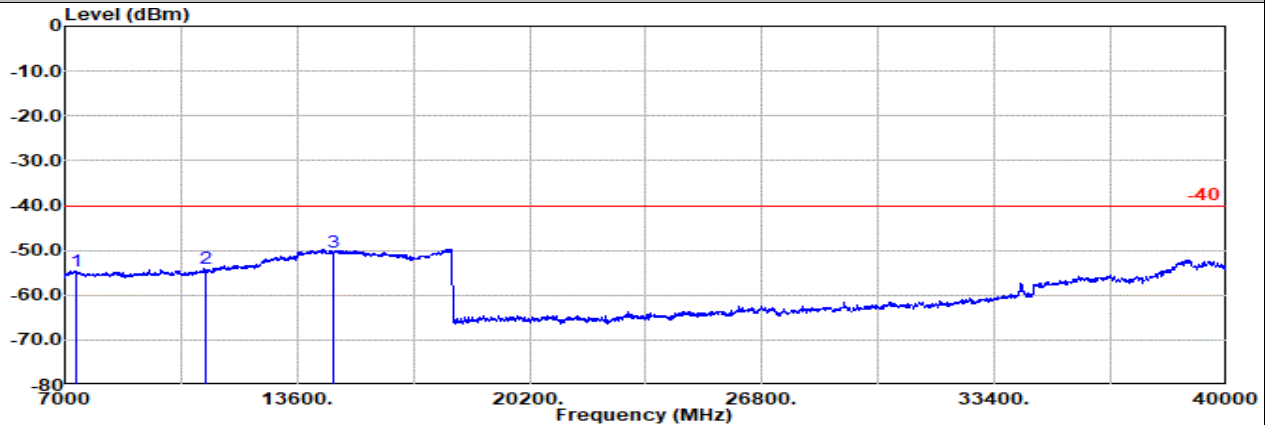


Ant2+0

Part 96 Mode 2

NR SA n48 40M Ch645332 1RB1 QPSK

H

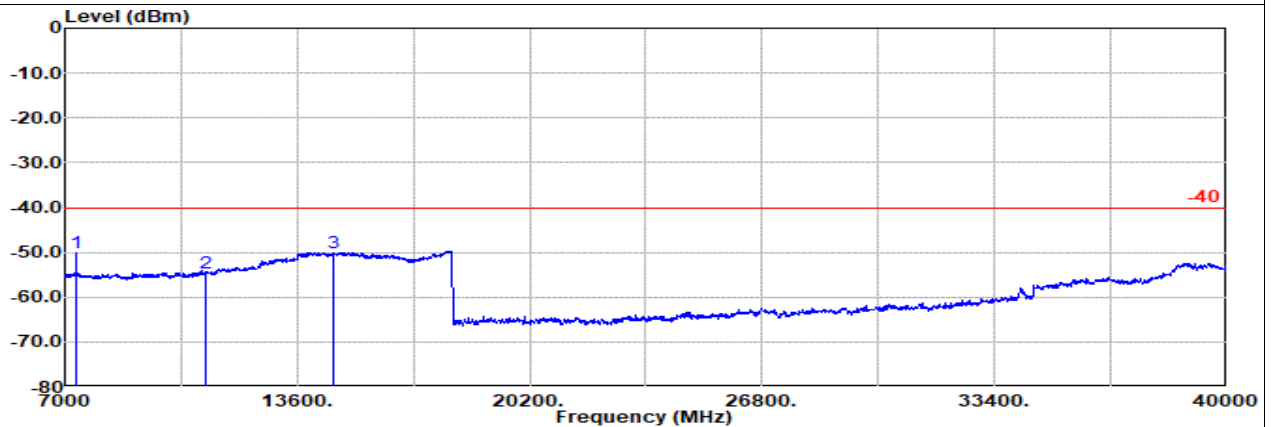


Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Horizontal

: SA n48 40M Ch645332 1RB1 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBuV	dBm		
1	7325.00	-54.78	RMS	36.75	-20.76	1.00	-95.23	23.46	-40.00	-14.78	Horizontal
2	10987.00	-54.17	RMS	37.67	-21.40	0.54	-95.23	24.25	-40.00	-14.17	Horizontal
3	14649.00	-50.27	RMS	41.40	-22.57	0.48	-95.23	25.65	-40.00	-10.27	Horizontal



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Vertical

: SA n48 40M Ch645332 1RB1 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBuV	dBm		
1	7325.00	-50.13	RMS	36.75	-20.76	1.00	-95.23	28.11	-40.00	-10.13	Vertical
2	10987.00	-54.78	RMS	37.67	-21.40	0.54	-95.23	23.64	-40.00	-14.78	Vertical
3	14649.00	-50.00	RMS	41.40	-22.57	0.48	-95.23	25.92	-40.00	-10.00	Vertical

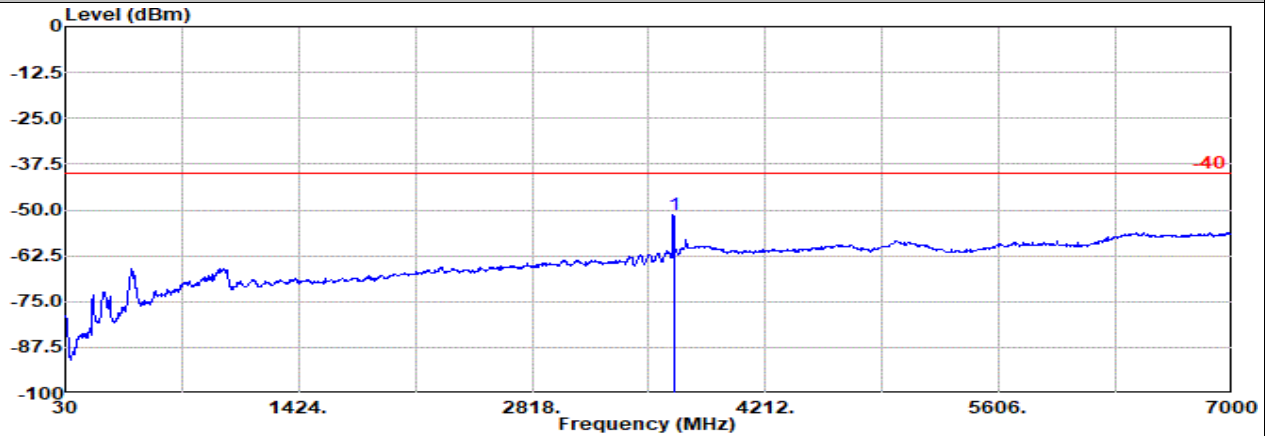


Ant2

Part 96 Mode 1

NR SA n48 40M Ch645332 1RB1 PI/2 BPSK

H



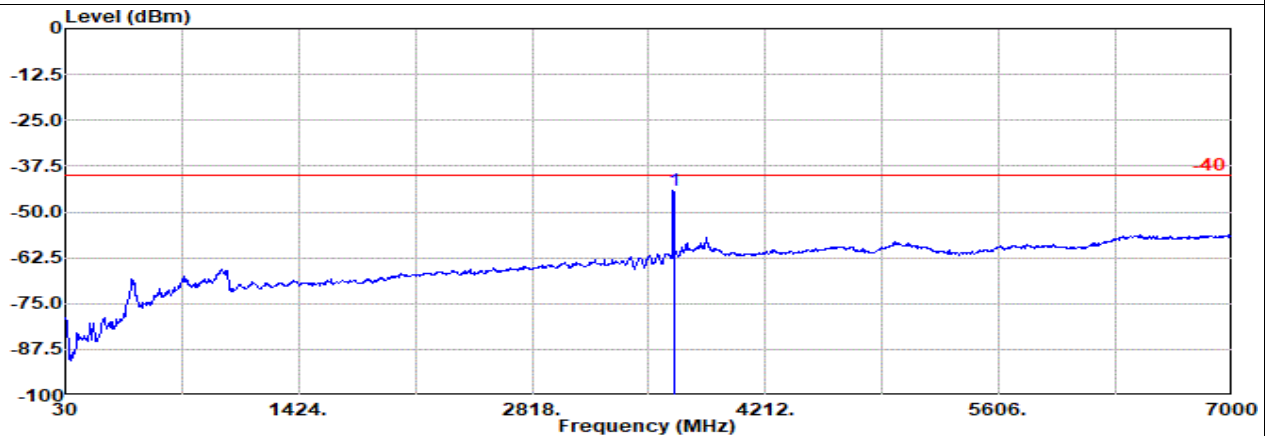
Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Horizontal

: SA n48 40M Ch645332 1RB1 BPSK

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1				g		
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3664.00	-51.34	RMS	29.46	-22.29	0.56	-95.23	36.16	-40.00	-11.34	Horizontal



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_240711 Vertical

: SA n48 40M Ch645332 1RB1 BPSK

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB		dBuV	dBm		
1	3664.00	-43.97	RMS	29.46	-22.29	0.56	-95.23	43.53	-40.00	-3.97	Vertical

Remark: #1 is fundamental signal which can be ignored.