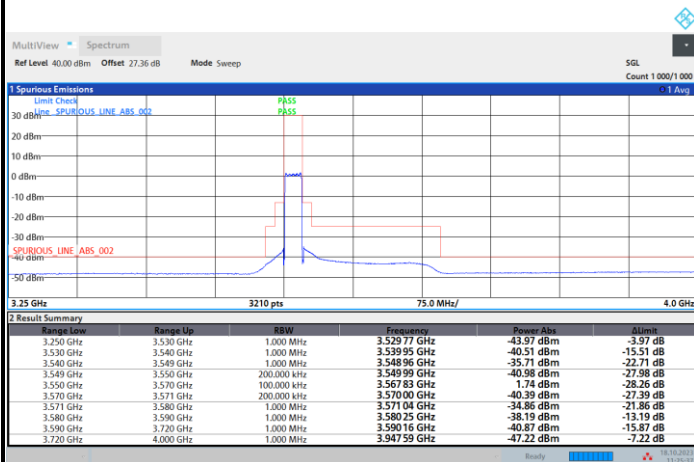




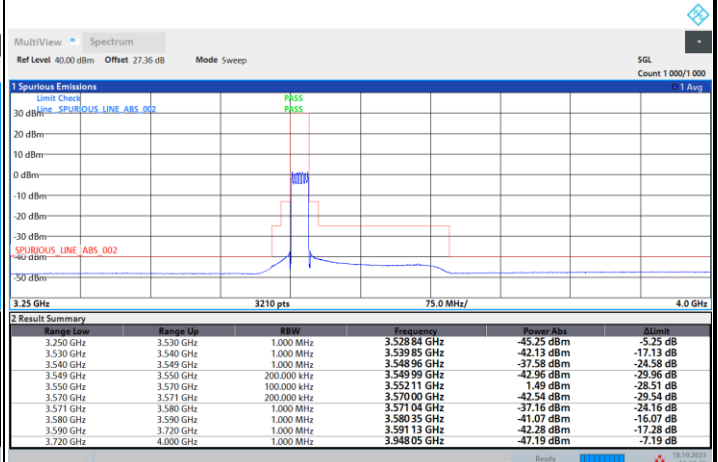
FR1 n48 / 20MHz / Lowest Channel / MASK

QPSK



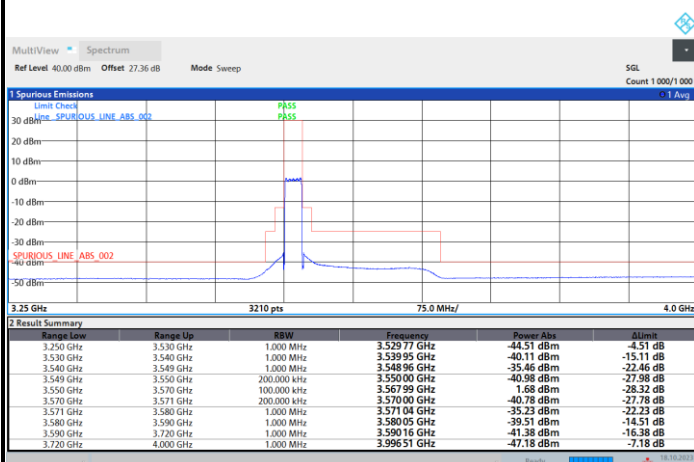
11:25:37 18.10.2023

16QAM



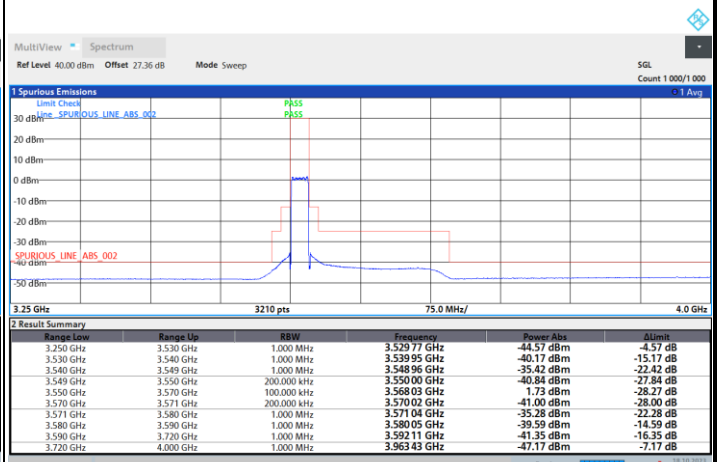
11:31:35 18.10.2023

64QAM



11:36:13 18.10.2023

256QAM

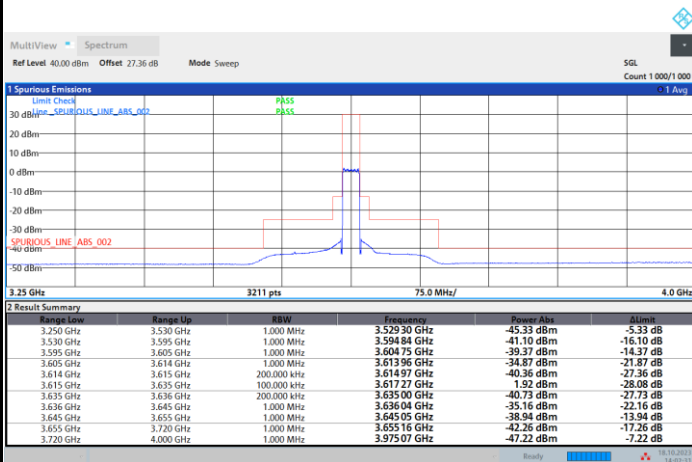


11:40:52 18.10.2023



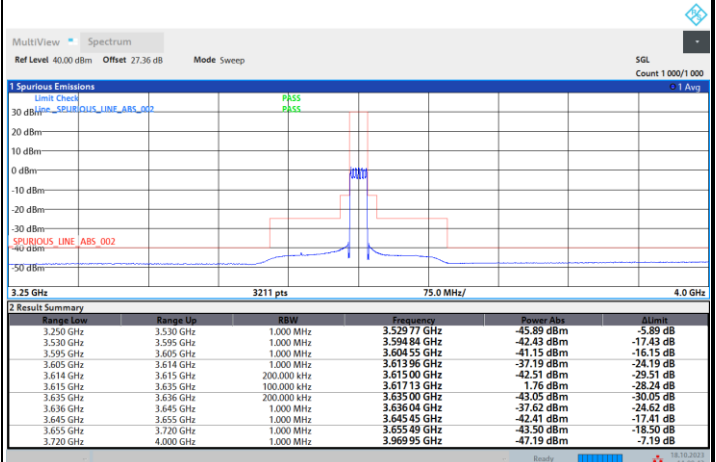
FR1 n48 / 20MHz / Middle Channel / MASK

QPSK



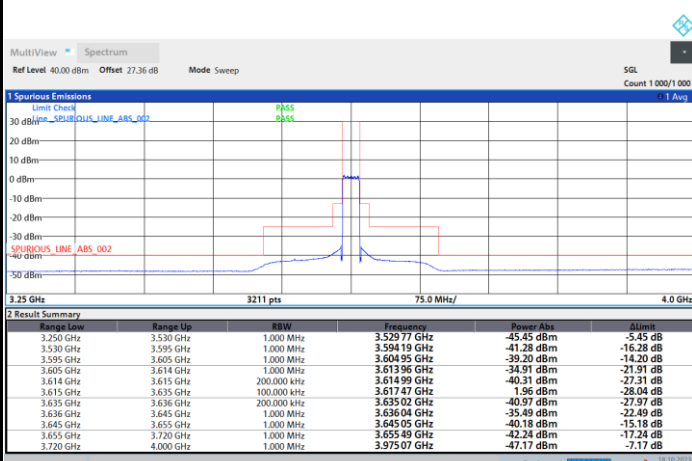
14:02:32 18.10.2023

16QAM



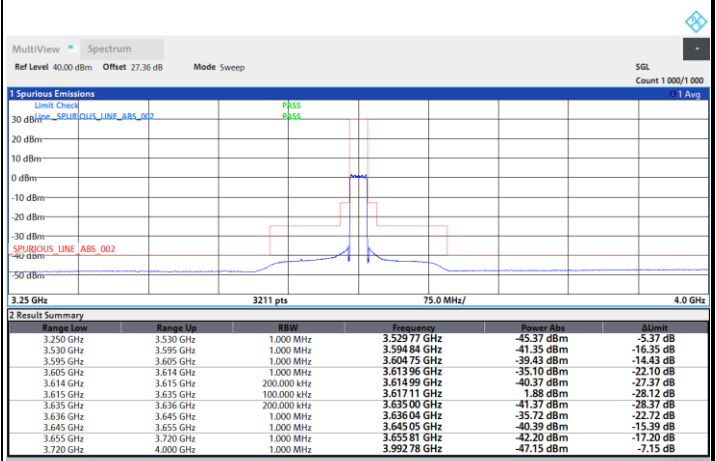
14:09:43 18.10.2023

64QAM



14:16:21 18.10.2023

256QAM

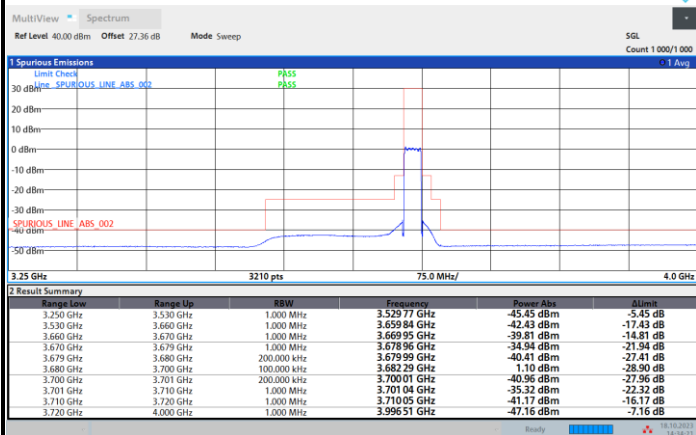


14:23:41 18.10.2023



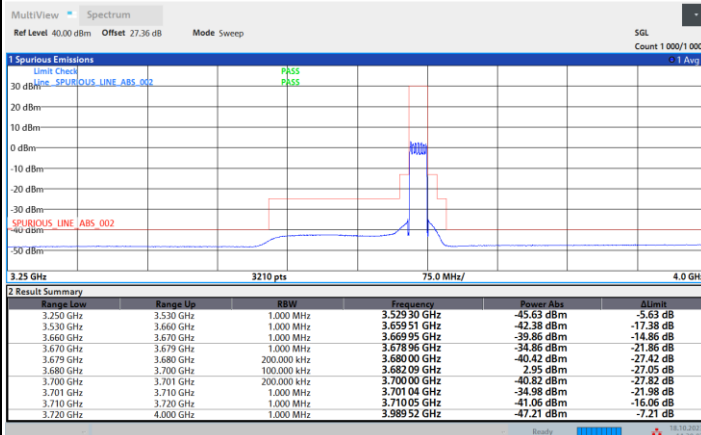
FR1 n48 / 20MHz / Highest Channel / MASK

QPSK



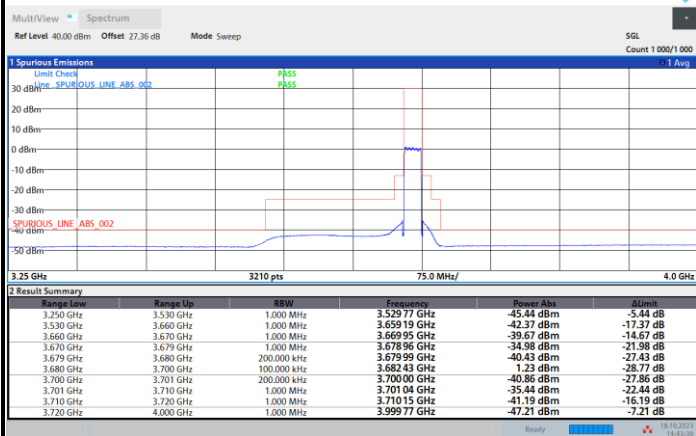
14:34:22 18.10.2023

16QAM



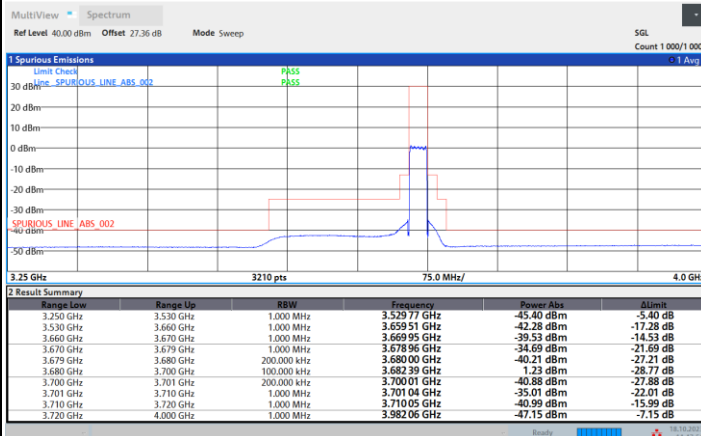
14:39:04 18.10.2023

64QAM



14:43:32 18.10.2023

256QAM

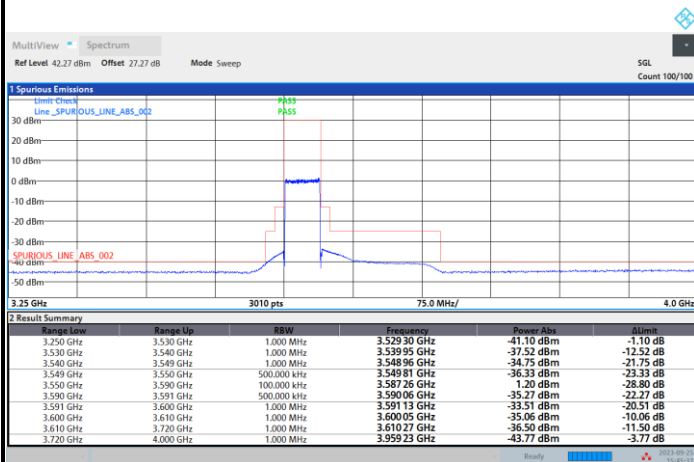


14:47:55 18.10.2023



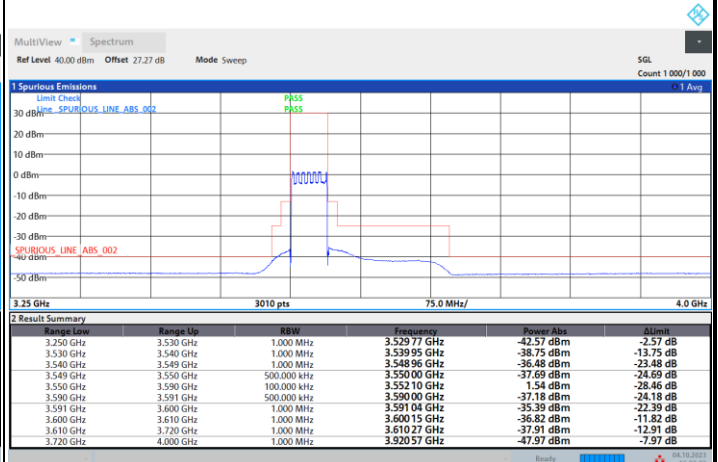
FR1 n48 / 40MHz / Lowest Channel / MASK

QPSK



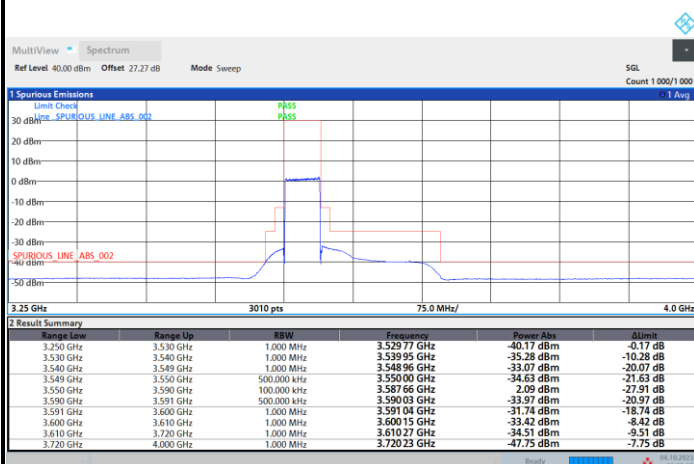
03:45:37 PM 09/25/2023

16QAM



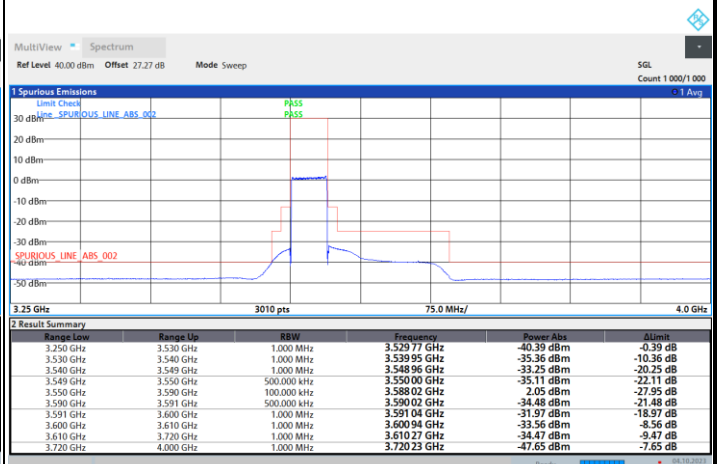
16:02:05 04.10.2023

64QAM



16:11:23 04.10.2023

256QAM

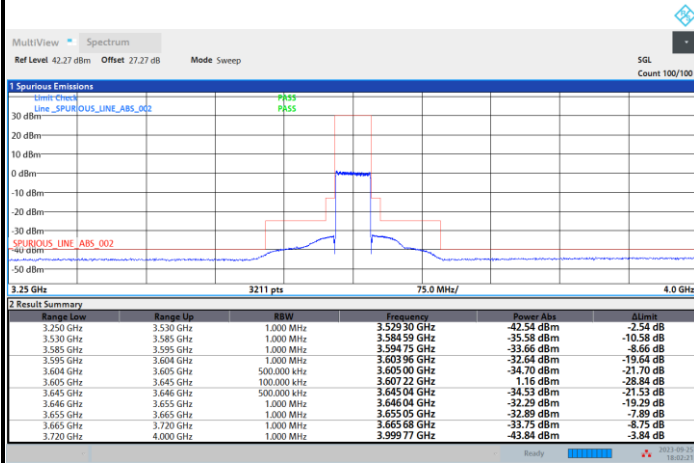


16:20:19 04.10.2023



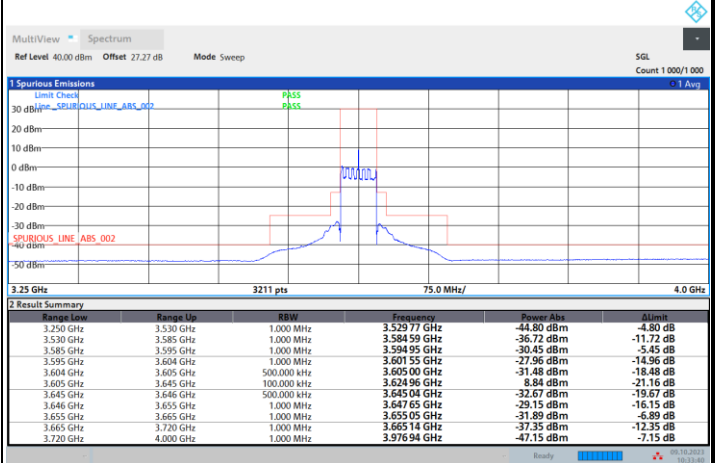
FR1 n48 / 40MHz / Middle Channel / MASK

QPSK



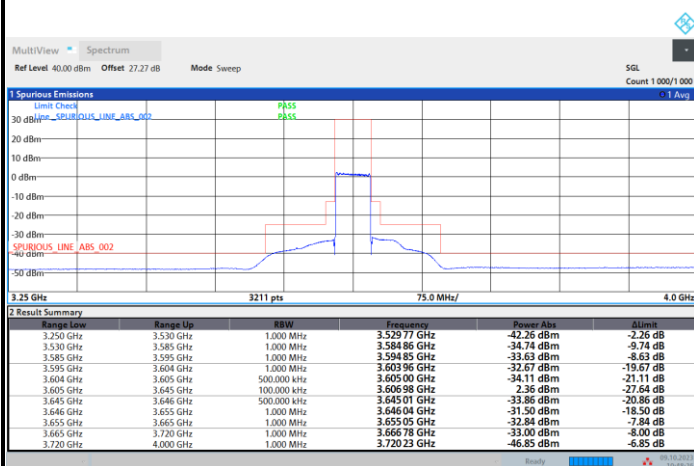
06:02:22 PM 09/25/2023

16QAM



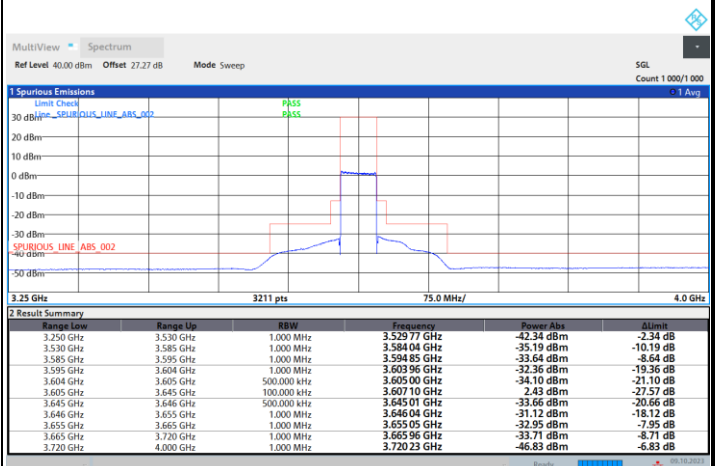
10:33:41 09.10.2023

64QAM



10:48:26 09.10.2023

256QAM

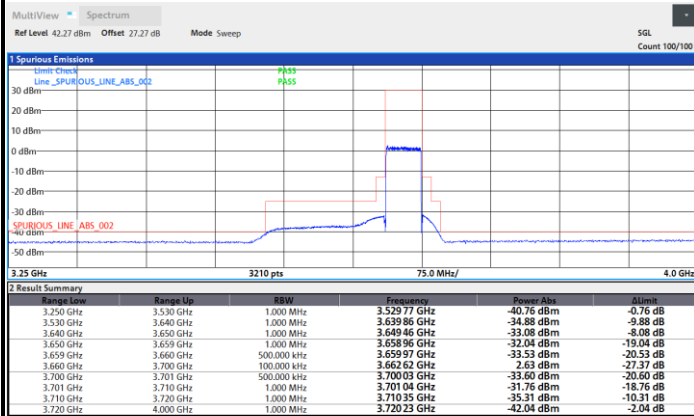


10:56:51 09.10.2023



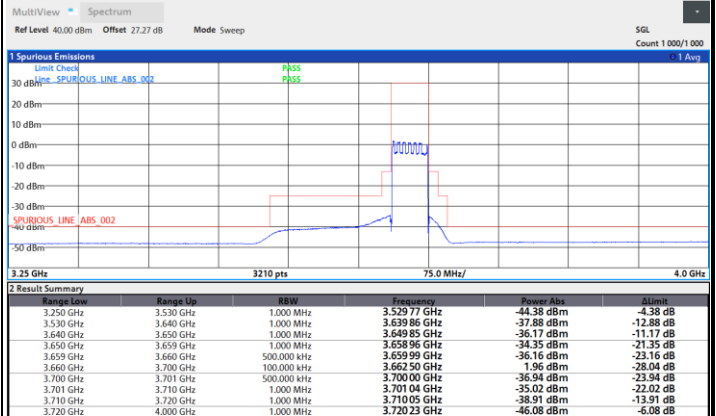
FR1 n48 / 40MHz / Highest Channel / MASK

QPSK



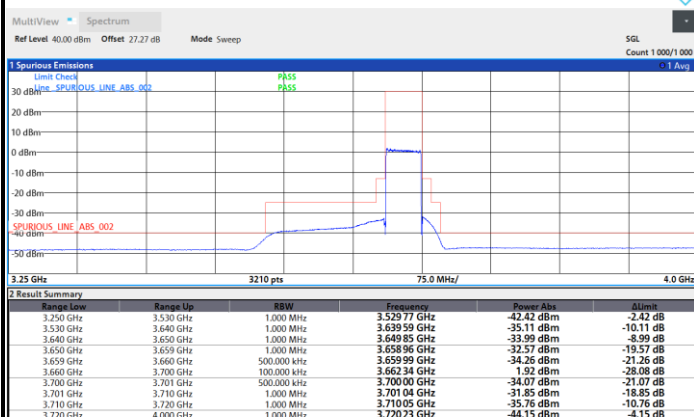
06:11:34 PM 09/25/2023

16QAM



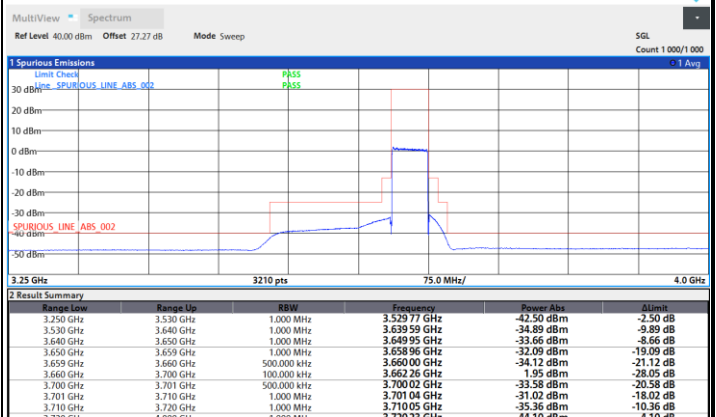
11:10:33 09.10.2023

64QAM



11:40:33 09.10.2023

256QAM



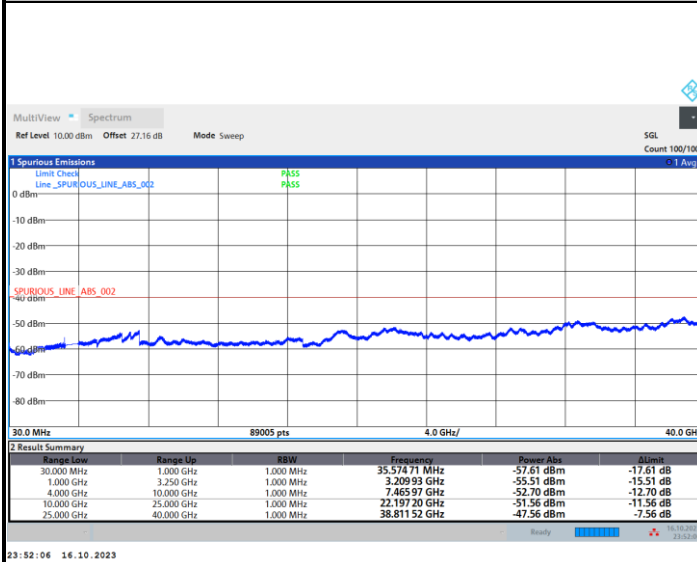
11:49:56 09.10.2023



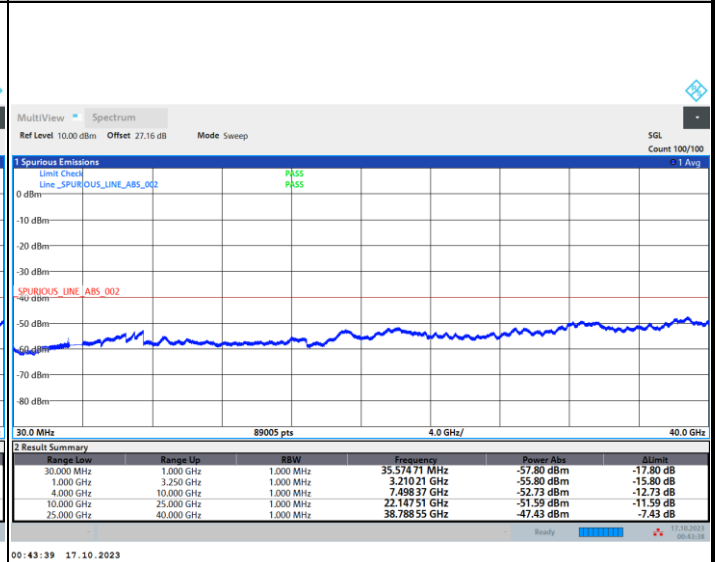
Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

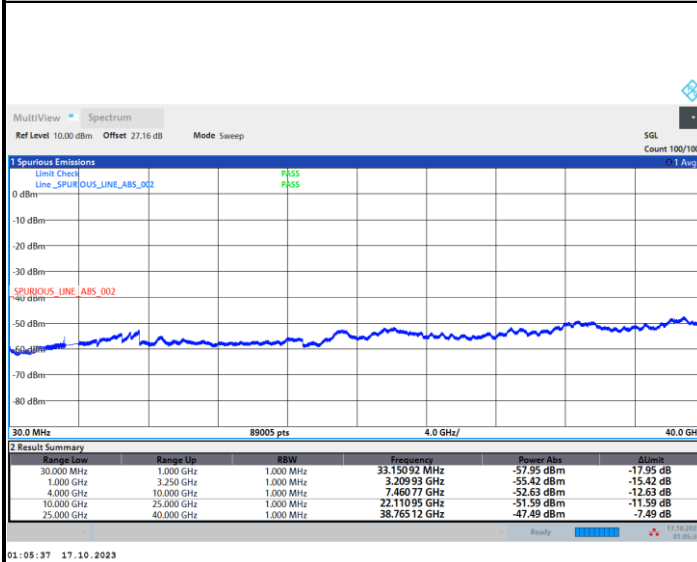
Lowest Channel



Middle Channel



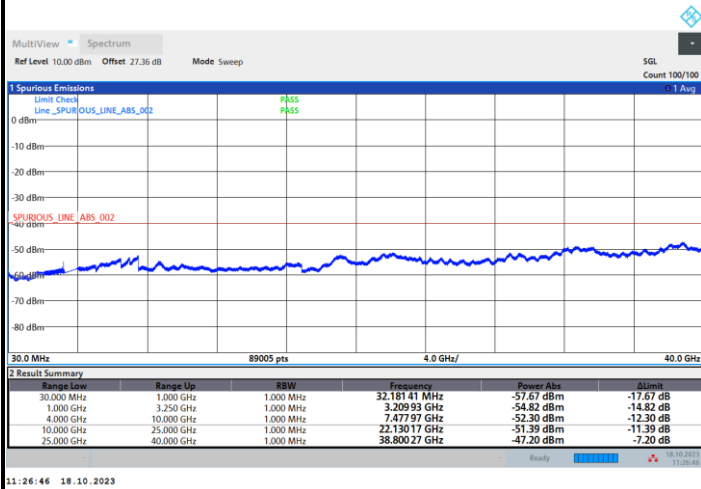
Highest Channel





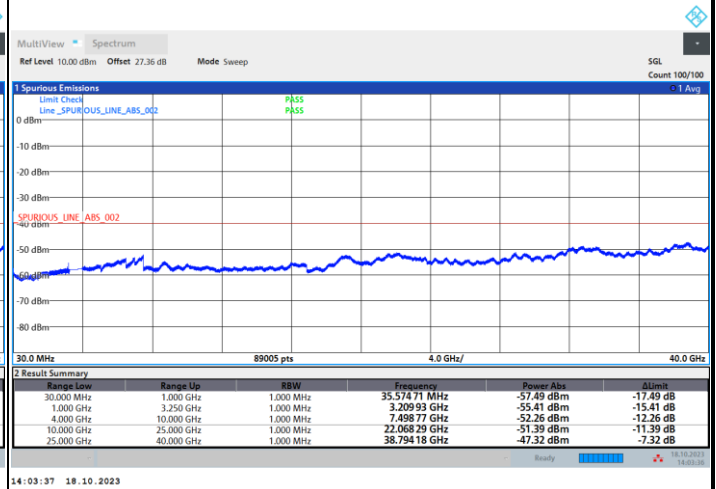
FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel



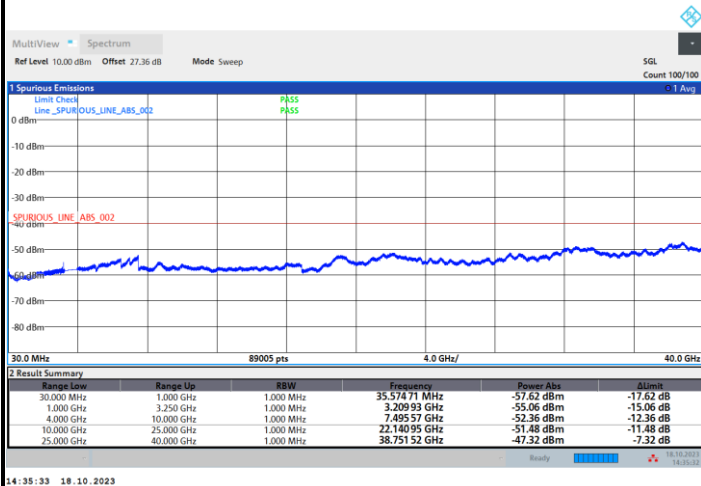
11:26:46 18.10.2023

Middle Channel



14:03:37 18.10.2023

Highest Channel

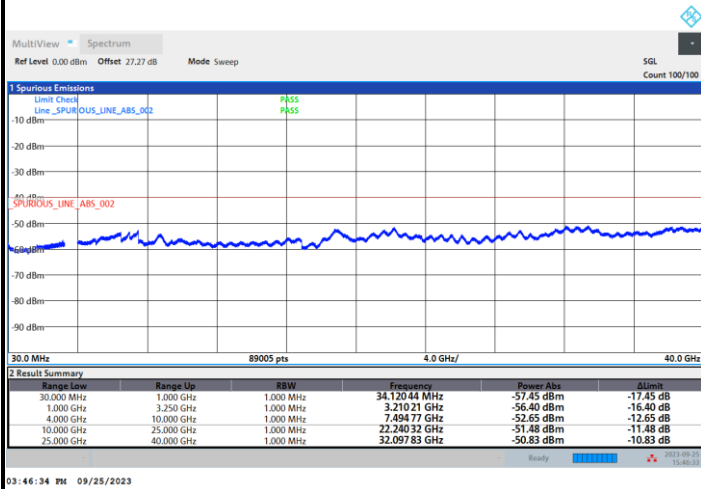


14:35:33 18.10.2023

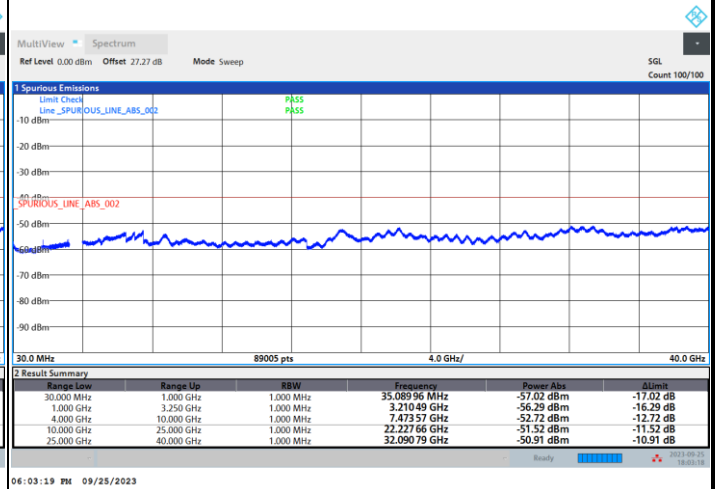


FR1 n48 / 40MHz / QPSK / CSE

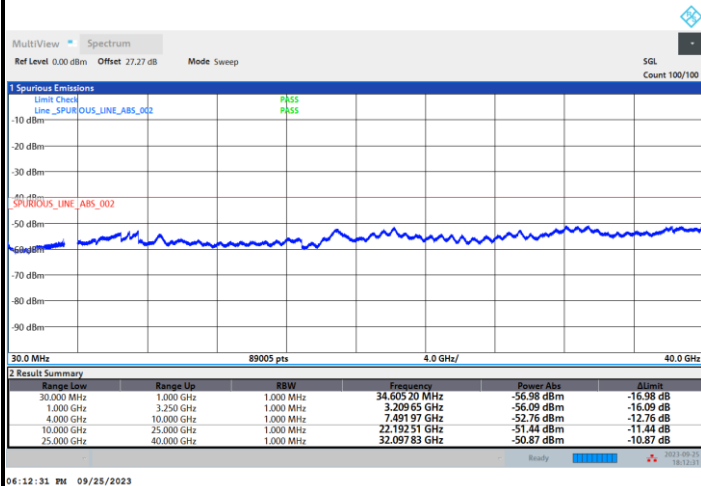
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.1655	PASS
40	Normal Voltage	0.5517	
30	Normal Voltage	0.6069	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.2759	
0	Normal Voltage	0.2207	
-10	Normal Voltage	0.2207	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.1103	
20	Maximum Voltage	0.4414	
20	Normal Voltage	0.9379	
20	Minimum Voltage	0.1641	

Note:

1. Normal Voltage = 110 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 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

Part	Mode	Ch	Freq (MHz)	Level (dBm)	Detector	Ant Factor (dB/m)	Amp\Cbl (dB)	Filter (dB)	EIRP CF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
Part 96	1	H	20632.000	-41.87	RMS	37.65	-32.03	0.00	-95.23	47.74	-40.00	-1.87	H	4TX

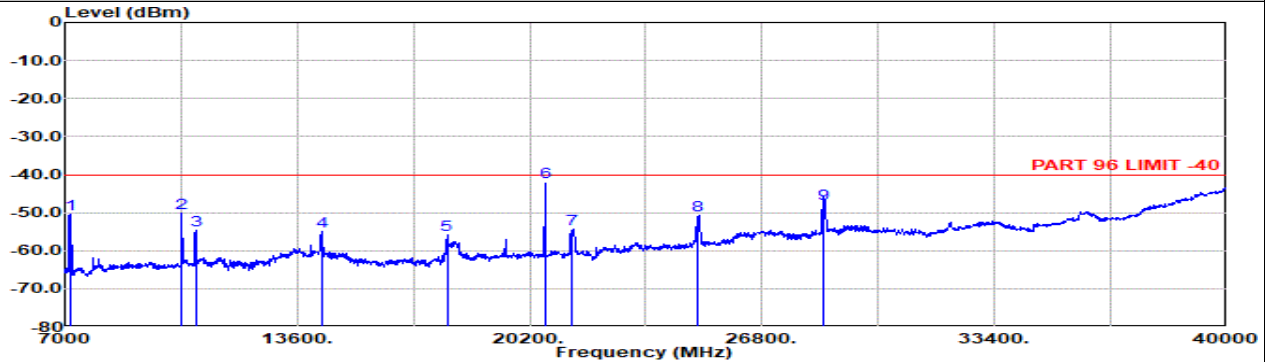


4TX

Part 96 Mode 1

NR SA n48 40M NR SA n48 40M Ch638000 1RB1 BPSK

L

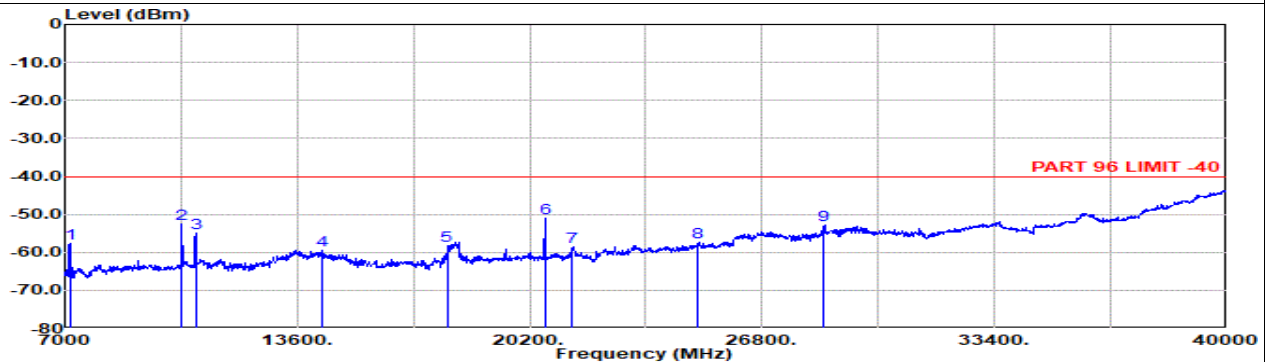


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: SA n48 40M Ch638000 106RB0 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7140.00	-50.41	RMS	36.82	-53.20	-5.16	-95.23	66.36	-40.00	-10.41	Horizontal
2	10322.00	-50.26	RMS	38.93	-51.97	-6.18	-95.23	64.19	-40.00	-10.26	Horizontal
3	10710.00	-54.65	RMS	39.28	-51.18	-6.26	-95.23	58.74	-40.00	-14.65	Horizontal
4	14280.00	-55.08	RMS	40.94	-47.37	-6.96	-95.23	53.54	-40.00	-15.08	Horizontal
5	17850.00	-55.84	RMS	41.40	-47.05	-7.75	-95.23	52.79	-40.00	-15.84	Horizontal
6	20632.00	-41.87	RMS	37.65	-32.03	0.00	-95.23	47.74	-40.00	-1.87	Horizontal
7	21420.00	-54.46	RMS	37.93	-31.61	0.00	-95.23	34.45	-40.00	-14.46	Horizontal
8	24990.00	-50.70	RMS	39.10	-29.79	0.00	-95.23	35.22	-40.00	-10.70	Horizontal
9	28560.00	-47.79	RMS	40.34	-29.14	0.00	-95.23	36.24	-40.00	-7.79	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: SA n48 40M Ch638000 106RB0 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7140.00	-57.64	RMS	36.82	-53.20	-5.16	-95.23	59.13	-40.00	-17.64	Vertical
2	10322.00	-52.46	RMS	38.93	-51.97	-6.18	-95.23	61.99	-40.00	-12.46	Vertical
3	10710.00	-54.96	RMS	39.28	-51.18	-6.26	-95.23	58.43	-40.00	-14.96	Vertical
4	14280.00	-59.59	RMS	40.94	-47.37	-6.96	-95.23	49.03	-40.00	-19.59	Vertical
5	17850.00	-58.40	RMS	41.40	-47.05	-7.75	-95.23	50.23	-40.00	-18.40	Vertical
6	20632.00	-50.92	RMS	37.65	-32.03	0.00	-95.23	38.69	-40.00	-10.92	Vertical
7	21420.00	-58.53	RMS	37.93	-31.61	0.00	-95.23	30.38	-40.00	-18.53	Vertical
8	24990.00	-57.50	RMS	39.10	-29.79	0.00	-95.23	28.42	-40.00	-17.50	Vertical
9	28560.00	-52.75	RMS	40.34	-29.14	0.00	-95.23	31.28	-40.00	-12.75	Vertical

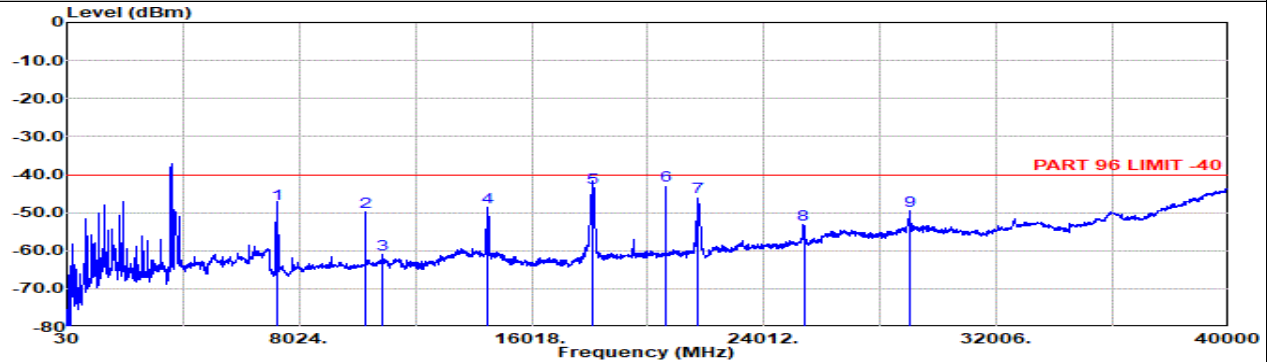


4TX

Part 96 Mode 1

NR SA n48 40M NR SA n48 40M Ch641666 1RB1 BPSK

M

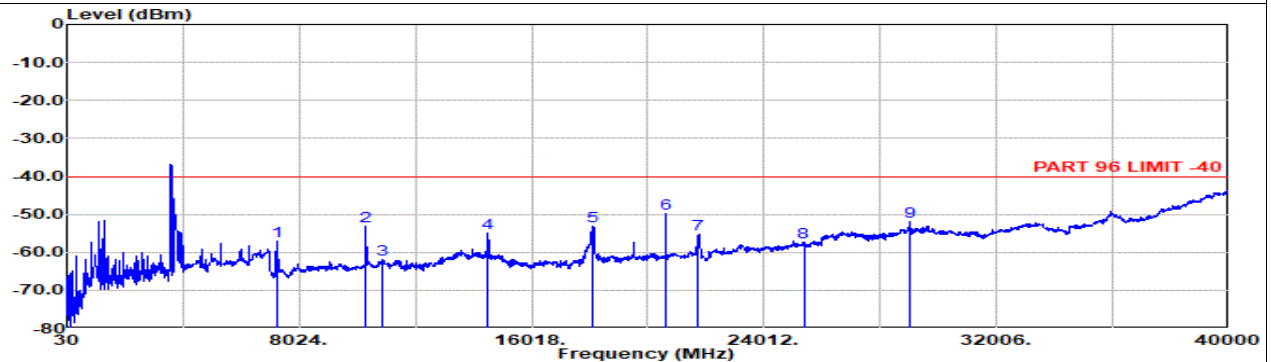


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: SA n48 40M Ch641666 106RB0 BPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1	dB		g	dBm		
1	7250.00	-47.72	RMS	37.20	-53.24	-5.22	-95.23	68.77	-40.00	-7.72	Horizontal
2	10322.00	-49.87	RMS	38.93	-51.97	-6.18	-95.23	64.58	-40.00	-9.87	Horizontal
3	10875.00	-61.09	RMS	39.60	-50.86	-6.30	-95.23	51.70	-40.00	-21.09	Horizontal
4	14500.00	-48.50	RMS	40.80	-47.04	-7.01	-95.23	59.99	-40.00	-8.50	Horizontal
5	18125.00	-43.38	RMS	37.75	-34.12	0.00	-95.23	48.22	-40.00	-3.38	Horizontal
6	20632.00	-42.98	RMS	37.65	-32.03	0.00	-95.23	46.63	-40.00	-2.98	Horizontal
7	21750.00	-45.74	RMS	38.00	-31.62	0.00	-95.23	43.11	-40.00	-5.74	Horizontal
8	25375.00	-53.23	RMS	38.90	-29.47	0.00	-95.23	32.56	-40.00	-13.23	Horizontal
9	29000.00	-49.49	RMS	40.90	-29.05	0.00	-95.23	33.89	-40.00	-9.49	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: SA n48 40M Ch641666 106RB0 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7250.00	-57.04	RMS	37.20	-53.24	-5.22	-95.23	59.45	-40.00	-17.04	Vertical
2	10322.00	-53.14	RMS	38.93	-51.97	-6.18	-95.23	61.31	-40.00	-13.14	Vertical
3	10875.00	-61.91	RMS	39.60	-50.86	-6.30	-95.23	50.88	-40.00	-21.91	Vertical
4	14500.00	-54.89	RMS	40.80	-47.04	-7.01	-95.23	53.60	-40.00	-14.89	Vertical
5	18125.00	-53.24	RMS	37.75	-34.12	0.00	-95.23	38.36	-40.00	-13.24	Vertical
6	20632.00	-49.86	RMS	37.65	-32.03	0.00	-95.23	39.75	-40.00	-9.86	Vertical
7	21750.00	-55.12	RMS	38.00	-31.62	0.00	-95.23	33.73	-40.00	-15.12	Vertical
8	25375.00	-57.36	RMS	38.90	-29.47	0.00	-95.23	28.43	-40.00	-17.36	Vertical
9	29000.00	-52.03	RMS	40.90	-29.05	0.00	-95.23	31.35	-40.00	-12.03	Vertical

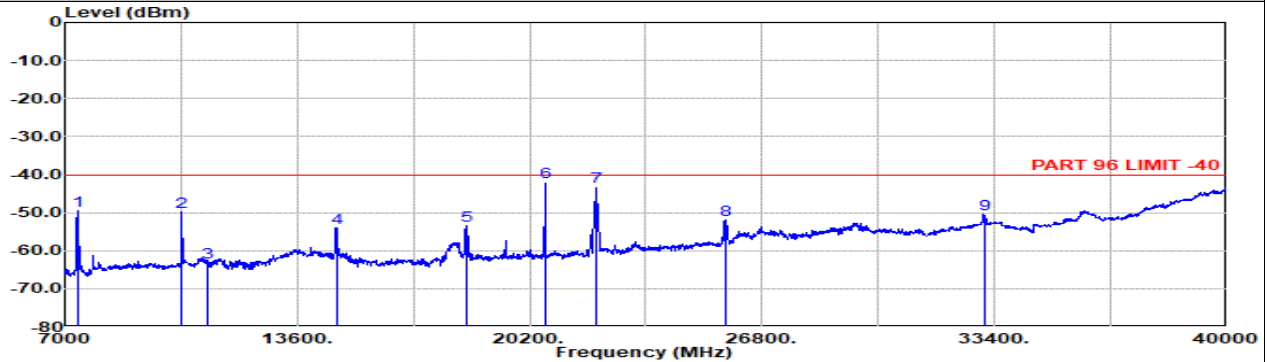


4TX

Part 96 Mode 1

NR SA n48 40M NR SA n48 40M Ch645332 1RB1 BPSK

H

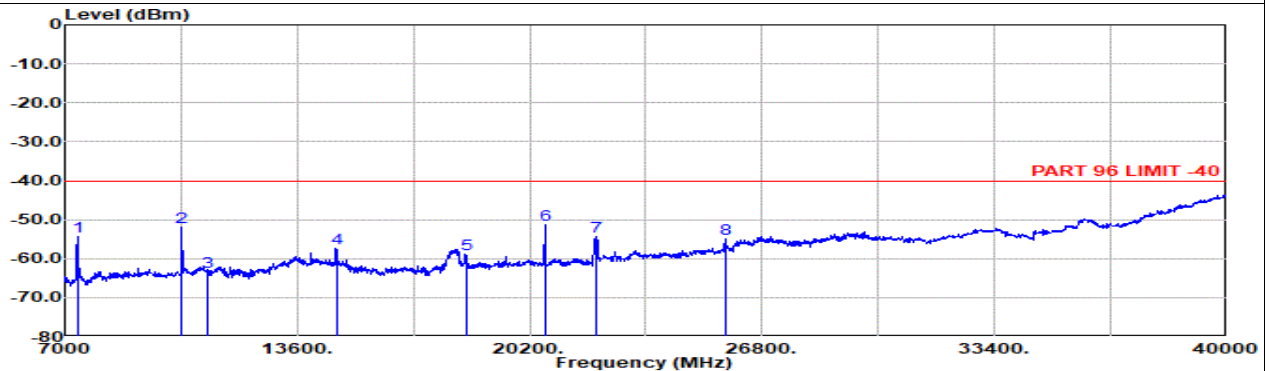


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: SA n48 40M Ch645332 106RB0 BPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1			g			
				dB/m	dB	dB		dBuV	dBm		
1	7360.00	-49.48	RMS	36.94	-53.19	-5.19	-95.23	67.19	-40.00	-9.48	Horizontal
2	10322.00	-49.78	RMS	38.93	-51.97	-6.18	-95.23	64.67	-40.00	-9.78	Horizontal
3	11040.00	-63.01	RMS	38.92	-50.55	-6.33	-95.23	50.18	-40.00	-23.01	Horizontal
4	14720.00	-53.94	RMS	40.66	-46.98	-7.07	-95.23	54.68	-40.00	-13.94	Horizontal
5	18400.00	-53.41	RMS	37.62	-34.08	0.00	-95.23	38.28	-40.00	-13.41	Horizontal
6	20632.00	-41.87	RMS	37.65	-32.03	0.00	-95.23	47.74	-40.00	-1.87	Horizontal
7	22080.00	-43.04	RMS	38.13	-31.61	0.00	-95.23	45.67	-40.00	-3.04	Horizontal
8	25760.00	-51.78	RMS	39.10	-29.14	0.00	-95.23	33.49	-40.00	-11.78	Horizontal
9	33120.00	-50.40	RMS	41.05	-26.04	0.00	-95.23	29.82	-40.00	-10.40	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: SA n48 40M Ch645332 106RB0 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7360.00	-54.49	RMS	36.94	-53.19	-5.19	-95.23	62.18	-40.00	-14.49	Vertical
2	10322.00	-52.04	RMS	38.93	-51.97	-6.18	-95.23	62.41	-40.00	-12.04	Vertical
3	11040.00	-63.27	RMS	38.92	-50.55	-6.33	-95.23	49.92	-40.00	-23.27	Vertical
4	14720.00	-57.33	RMS	40.66	-46.98	-7.07	-95.23	51.29	-40.00	-17.33	Vertical
5	18400.00	-58.77	RMS	37.62	-34.08	0.00	-95.23	32.92	-40.00	-18.77	Vertical
6	20632.00	-51.36	RMS	37.65	-32.03	0.00	-95.23	38.25	-40.00	-11.36	Vertical
7	22080.00	-54.24	RMS	38.13	-31.61	0.00	-95.23	34.47	-40.00	-14.24	Vertical
8	25760.00	-55.09	RMS	39.10	-29.14	0.00	-95.23	30.18	-40.00	-15.09	Vertical