



Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

Lowest Channel



Middle Channel



Highest Channel





FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel



20:13:42 27.04.2022

Middle Channel



17:52:34 20.04.2022

Highest Channel



14:50:26 29.04.2022



FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel



Middle Channel



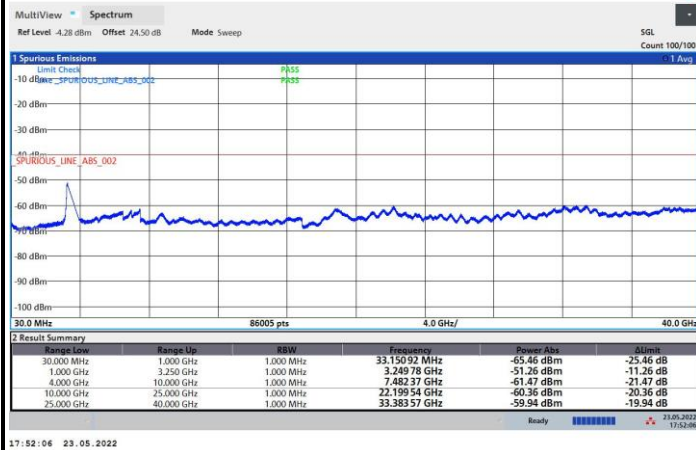
Highest Channel





FR1 n48 / 50MHz / QPSK / CSE

Lowest Channel



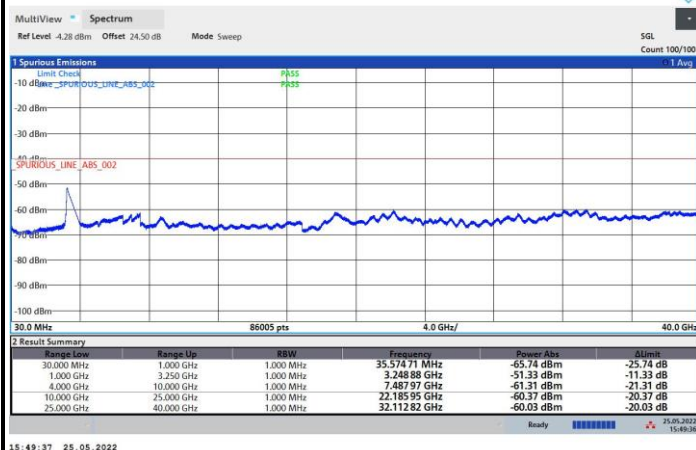
17:52:06 23.05.2022

Middle Channel



11:06:13 25.05.2022

Highest Channel



15:49:37 25.05.2022



FR1 n48 / 60MHz / QPSK / CSE

Lowest Channel



18:08:43 13.05.2022

Middle Channel



14:30:10 21.05.2022

Highest Channel



14:39:01 19.05.2022



FR1 n48 / 80MHz / QPSK / CSE

Lowest Channel



Middle Channel



Highest Channel





FR1 n48 / 90MHz / QPSK / CSE

Lowest Channel



14:08:10 17.06.2022

Middle Channel



16:26:01 17.06.2022

Highest Channel



16:17:20 18.06.2022



FR1 n48 / 100MHz / 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	2.2069	PASS
40	Normal Voltage	0.8276	
30	Normal Voltage	0.8276	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.5517	
0	Normal Voltage	0.8276	
-10	Normal Voltage	1.3793	
-20	Normal Voltage	1.6552	
-30	Normal Voltage	2.2069	
20	Maximum Voltage	1.9310	
20	Normal Voltage	0.5517	
20	Minimum Voltage	2.4828	

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.



<MIMO ANT 4>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.65	5.54	5.85	5.61	6.59	6.70	7.13	7.14
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.14	5.18	5.66	6.24	6.37	6.34	7.06	6.97
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	6.96	6.84	6.96	7.02	6.99	7.37	7.40	7.26
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	6.90	6.89	7.03	7.49	7.55	7.23	6.97	7.08

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	18.67	18.56	18.87	18.63	19.61	19.72	20.15	20.16
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	18.16	18.20	18.68	19.26	19.39	19.36	20.08	19.99
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	19.98	19.86	19.98	20.04	20.01	20.39	20.42	20.28
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	19.92	19.91	20.05	20.51	20.57	20.25	19.99	20.10
Limit	30dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 7dBi MIMO antenna gain.

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Middle Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.71	4.63	6.44	6.72	6.44	6.50	6.78	6.65
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.63	4.36	6.60	6.31	6.34	6.43	6.56	6.58
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	6.73	6.94	6.76	7.08	6.85	6.75	7.10	7.07
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	6.80	6.63	6.89	6.93	6.74	6.95	6.97	7.07

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	17.73	17.65	19.46	19.74	19.46	19.52	19.80	19.67
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	17.65	17.38	19.62	19.33	19.36	19.45	19.58	19.60
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.75	19.96	19.78	20.10	19.87	19.77	20.12	20.09
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.82	19.65	19.91	19.95	19.76	19.97	19.99	20.09
Limit	30dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 7dBi MIMO antenna gain.

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	5.67	5.75	6.29	6.19	6.79	6.55	6.50	6.38
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	5.49	5.01	6.05	6.27	6.81	6.73	6.49	6.54
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	6.91	6.84	7.02	6.93	7.36	7.33	7.82	7.73
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	6.34	6.23	6.92	6.84	7.17	7.30	7.49	7.31

Mode	FR1 n48 : Maximum EIRP (dBm/MHz) <MIMO 4TX> Highest Channel							
BW	10MHz		20MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	18.69	18.77	19.31	19.21	19.81	19.57	19.52	19.40
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	18.51	18.03	19.07	19.29	19.83	19.75	19.51	19.56
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	19.93	19.86	20.04	19.95	20.38	20.35	20.84	20.75
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	19.36	19.25	19.94	19.86	20.19	20.32	20.51	20.33
Limit	30dBm/10MHz							
Result	PASS							

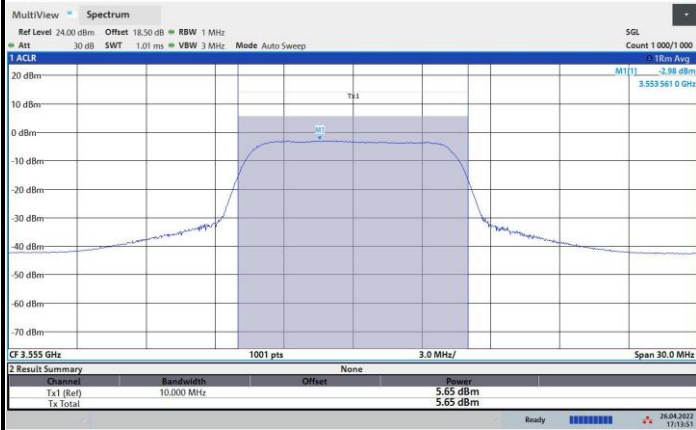
Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 7dBi MIMO antenna gain.



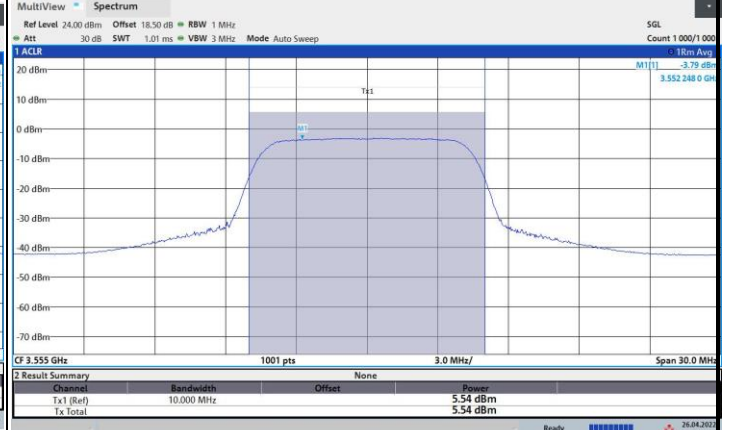
FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



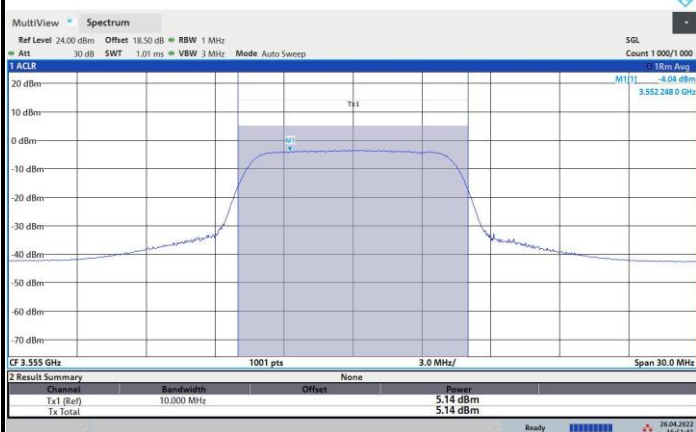
17:13:52 26.04.2022

16QAM



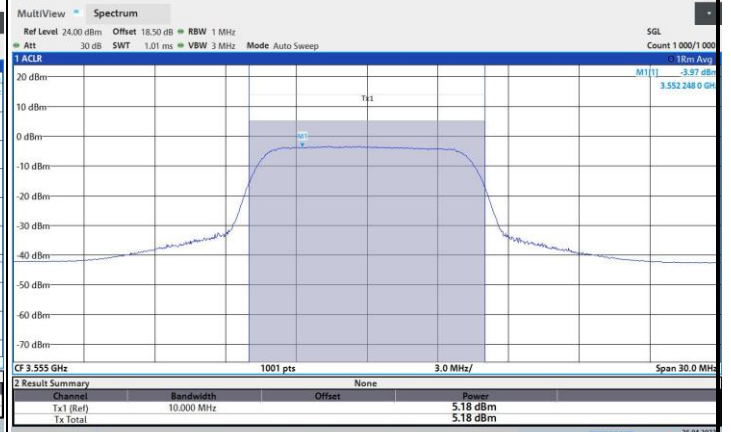
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64QAM



16:51:41 26.04.2022

256QAM

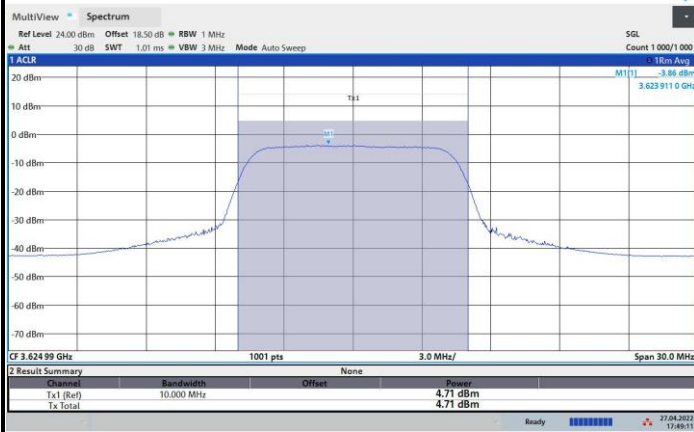


16:39:27 26.04.2022



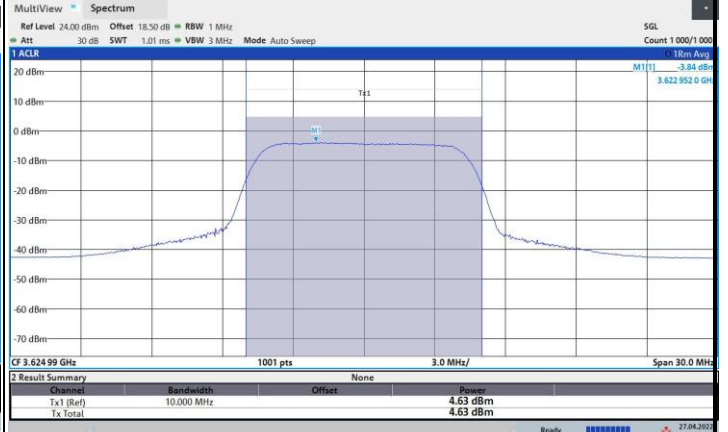
FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



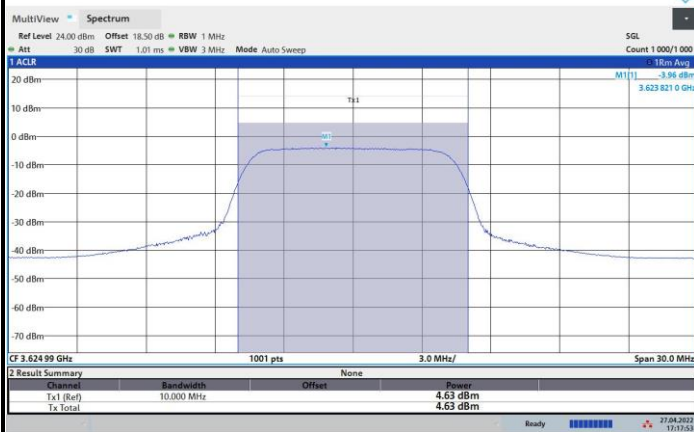
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16QAM



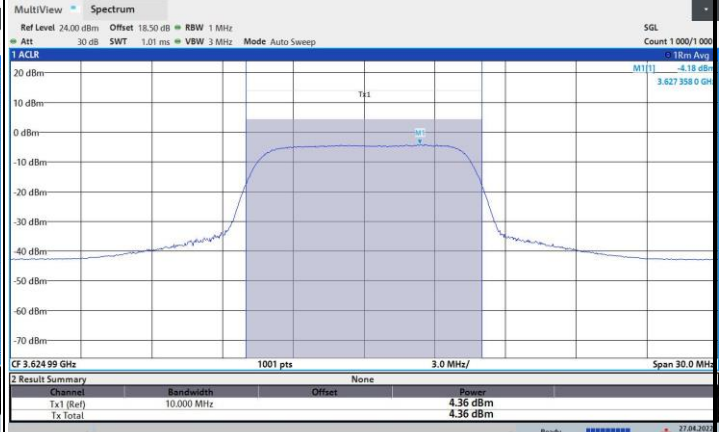
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64QAM



17:17:53 27.04.2022

256QAM



14:29:06 27.04.2022



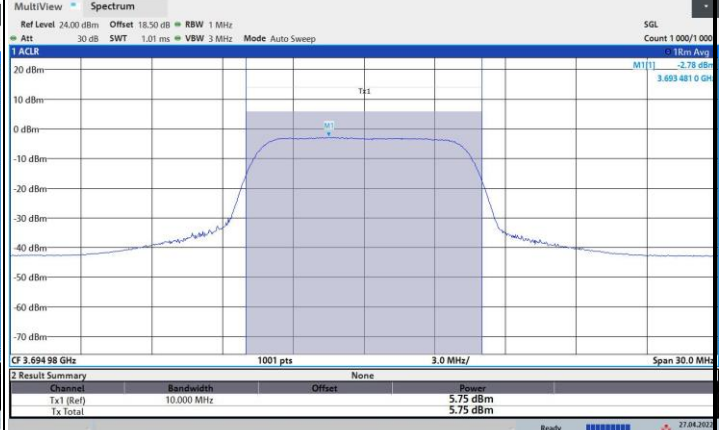
FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



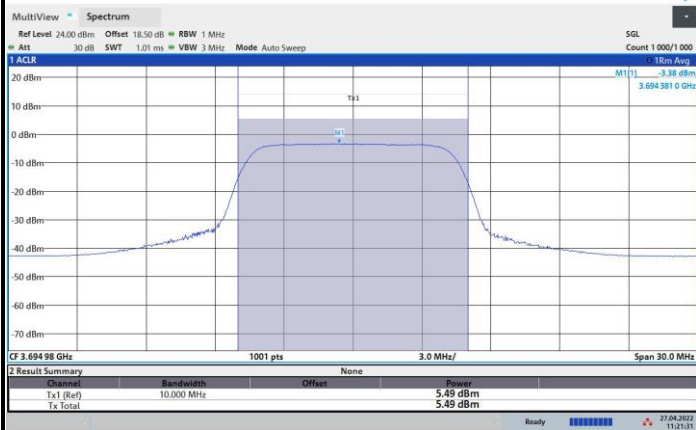
11:43:17 27.04.2022

16QAM



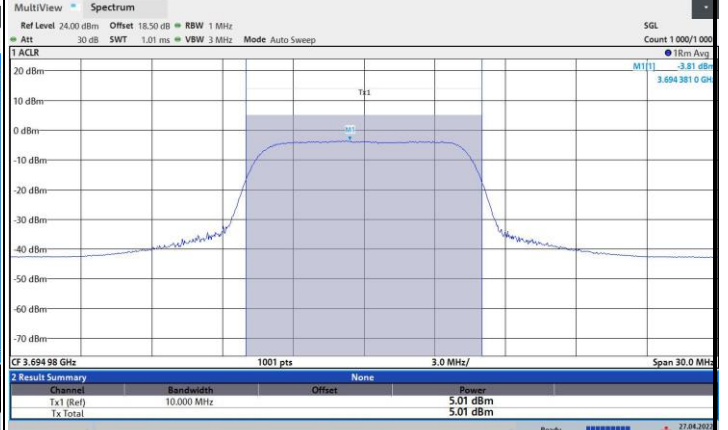
11:26:26 27.04.2022

64QAM



11:21:32 27.04.2022

256QAM

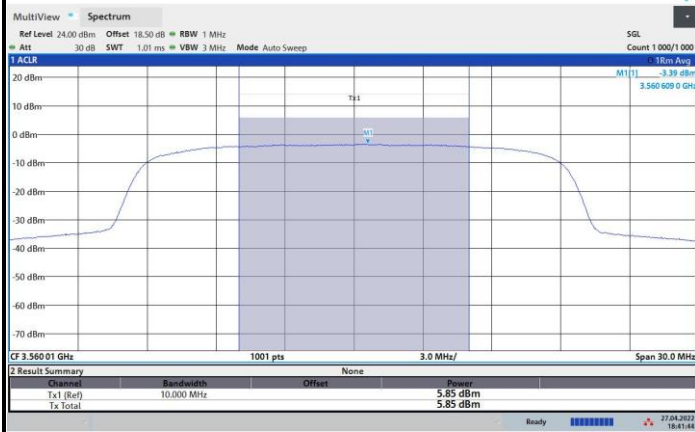


14:11:02 27.04.2022



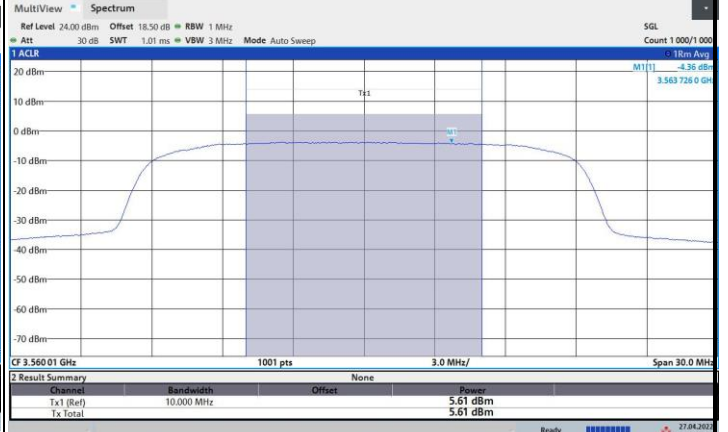
FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



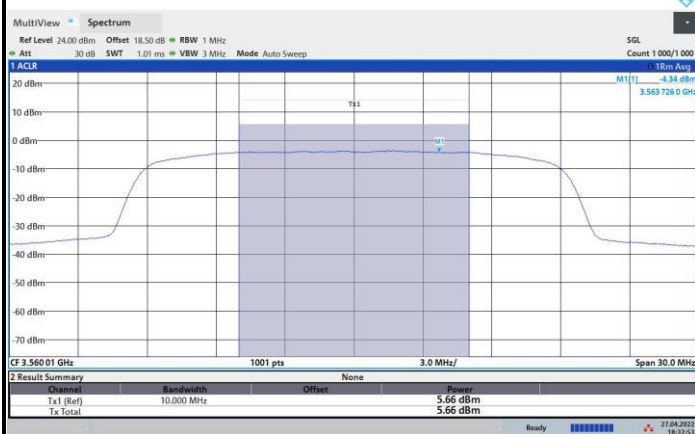
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16QAM



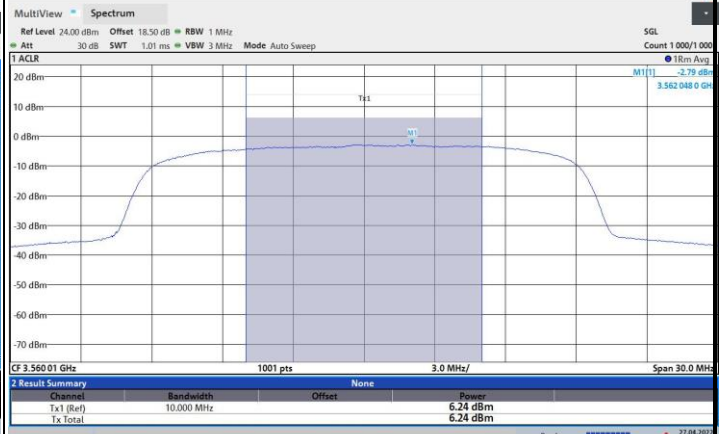
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64QAM



18:32:54 27.04.2022

256QAM

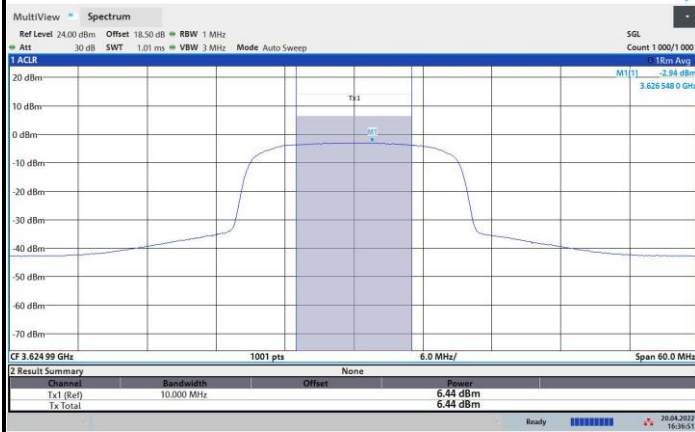


21:44:55 27.04.2022



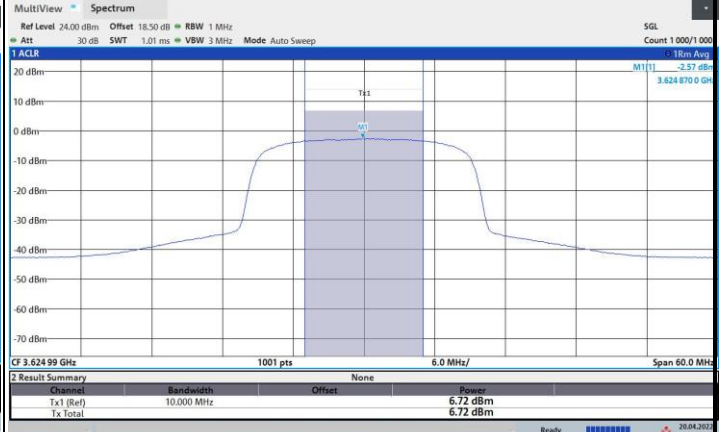
FR1 n48 / 20MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



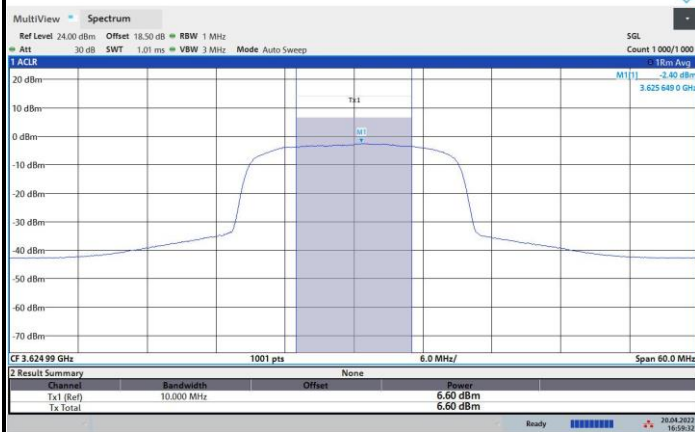
16:36:51 20.04.2022

16QAM



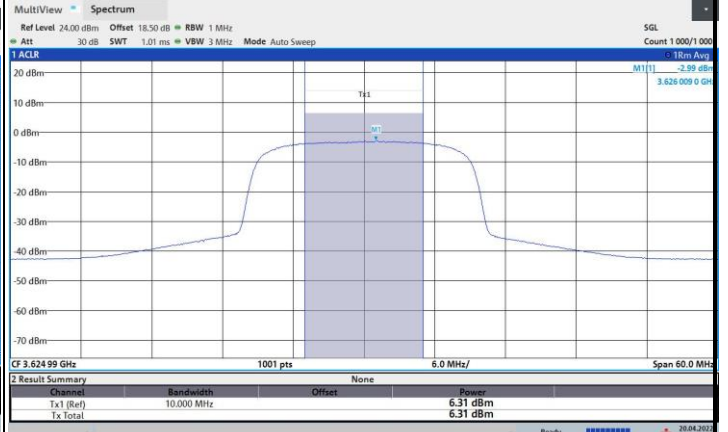
16:50:53 20.04.2022

64QAM



16:59:33 20.04.2022

256QAM

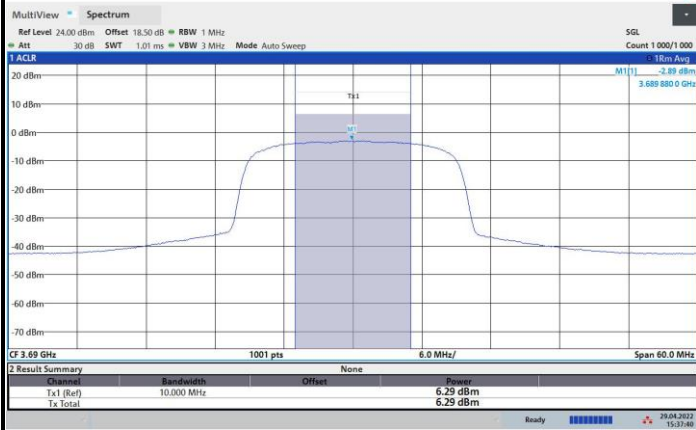


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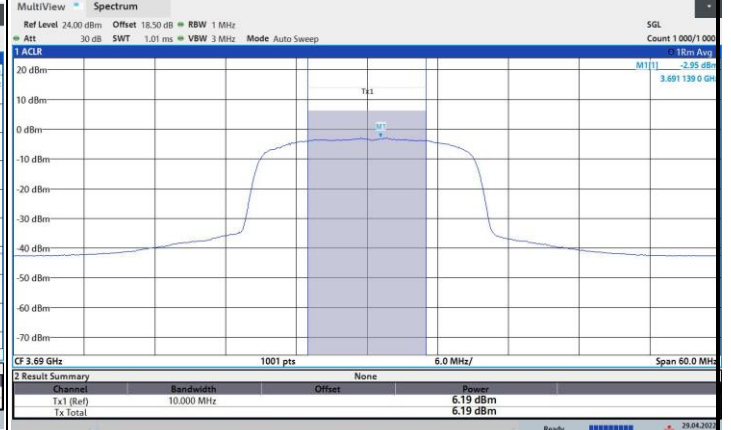
FR1 n48 / 20MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



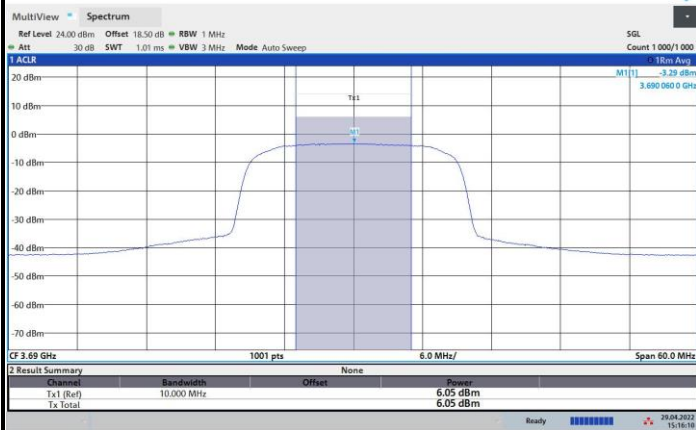
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16QAM



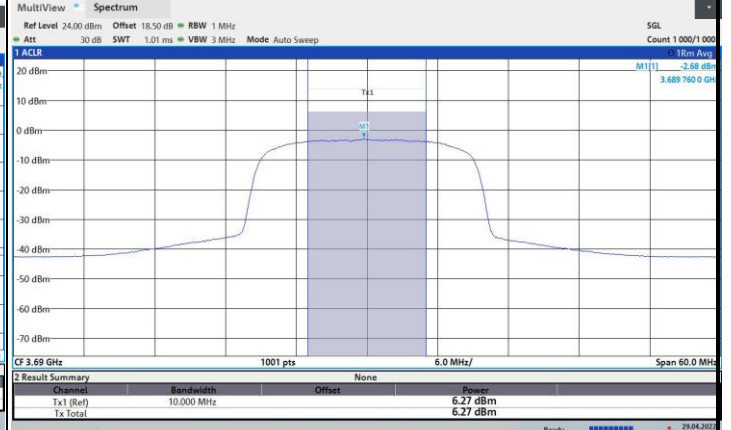
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64QAM



15:16:18 29.04.2022

256QAM

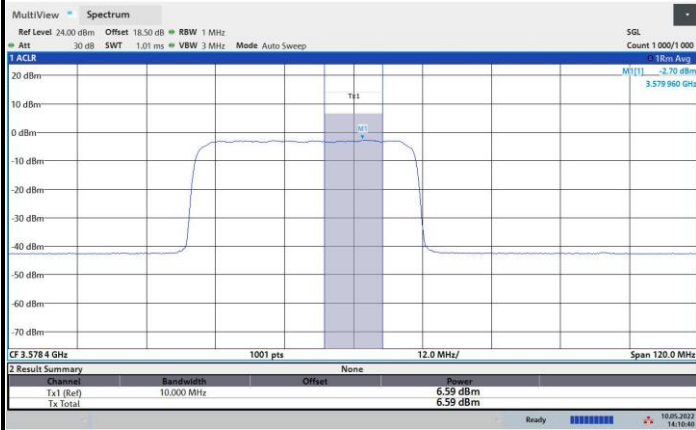


10:39:39 29.04.2022



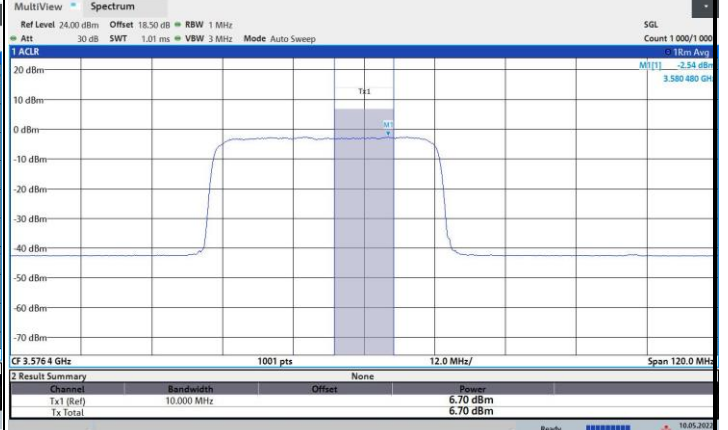
FR1 n48 / 40MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



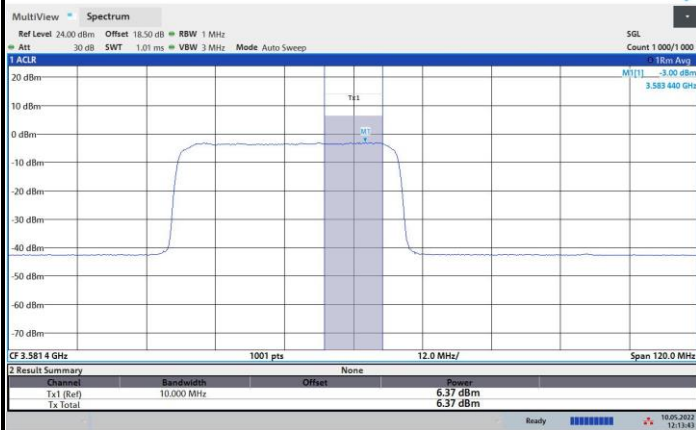
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16QAM



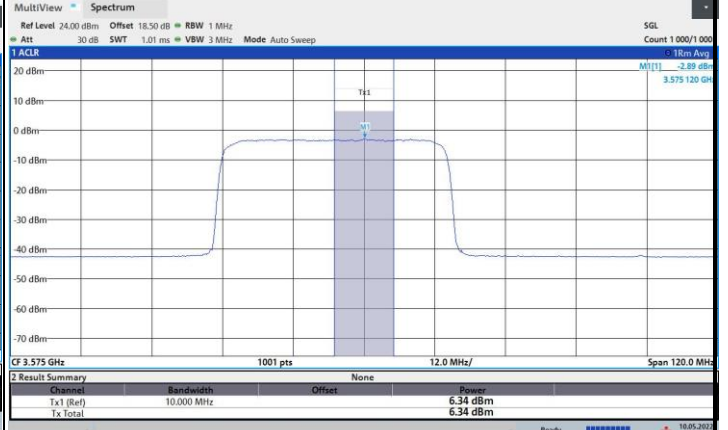
13:58:38 10.05.2022

64QAM



12:13:43 10.05.2022

256QAM

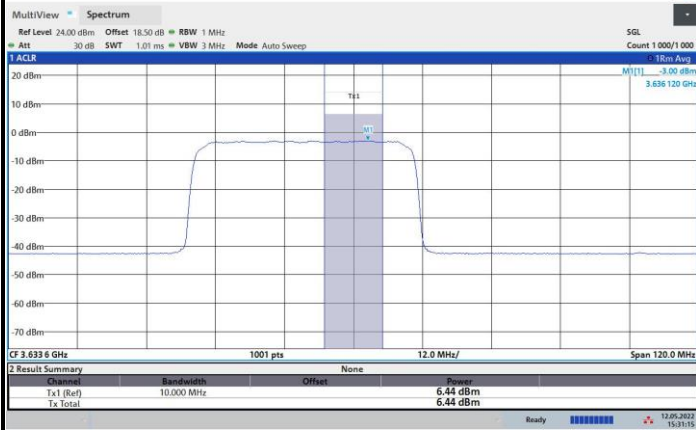


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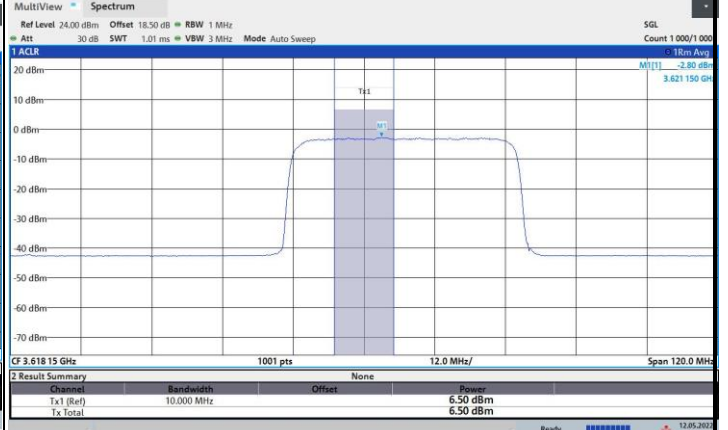
FR1 n48 / 40MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



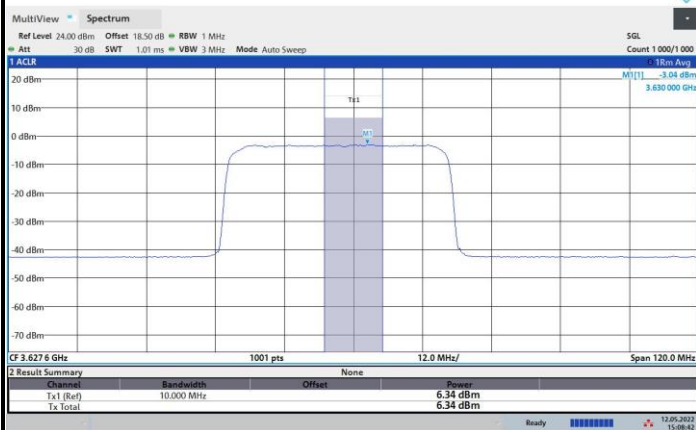
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16QAM



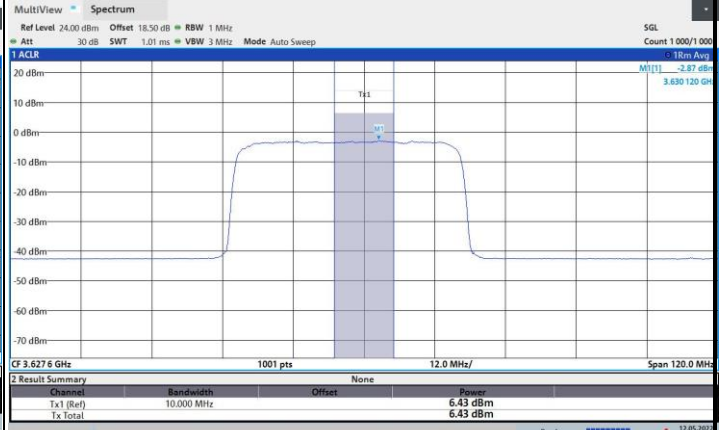
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64QAM



15:08:43 12.05.2022

256QAM

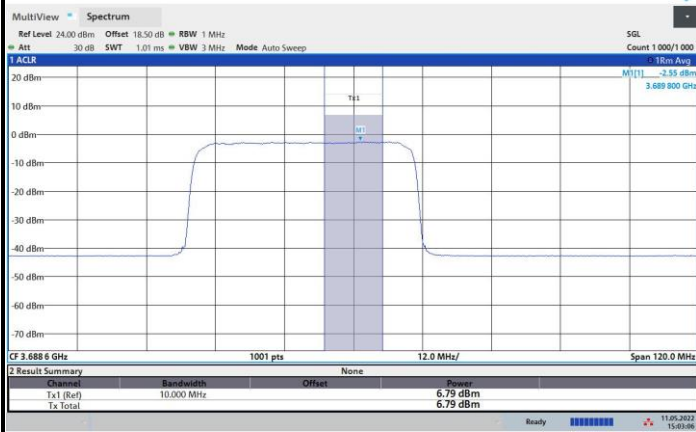


16:25:01 12.05.2022



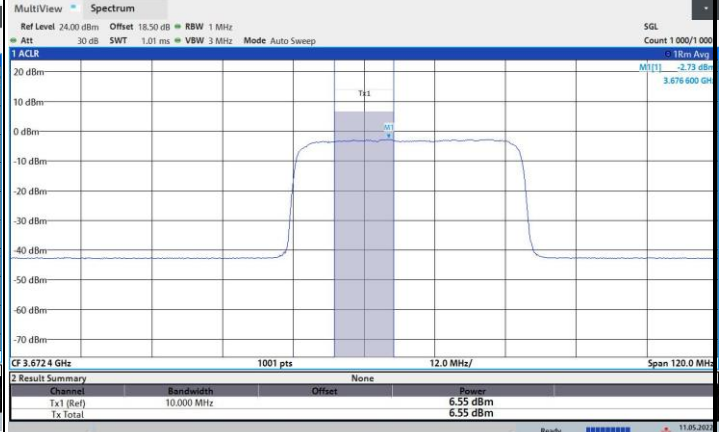
FR1 n48 / 40MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



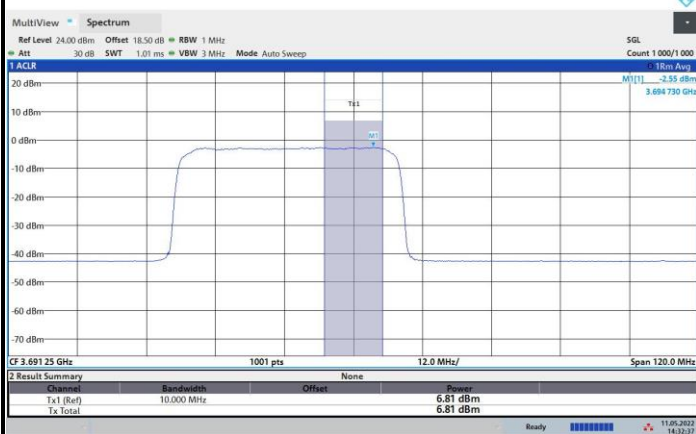
15:03:07 11.05.2022

16QAM



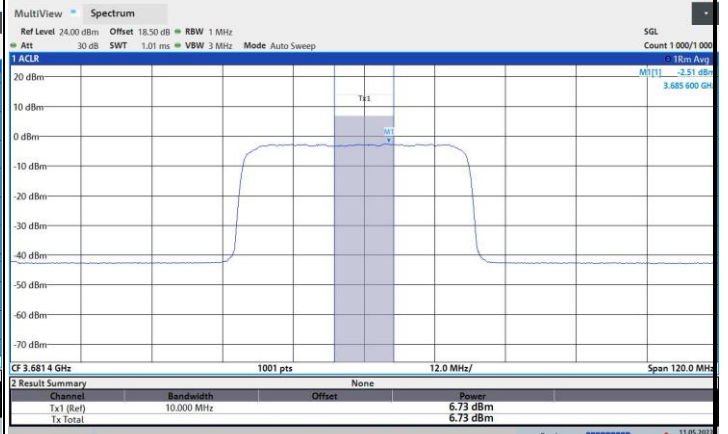
14:53:06 11.05.2022

64QAM



14:52:37 11.05.2022

256QAM

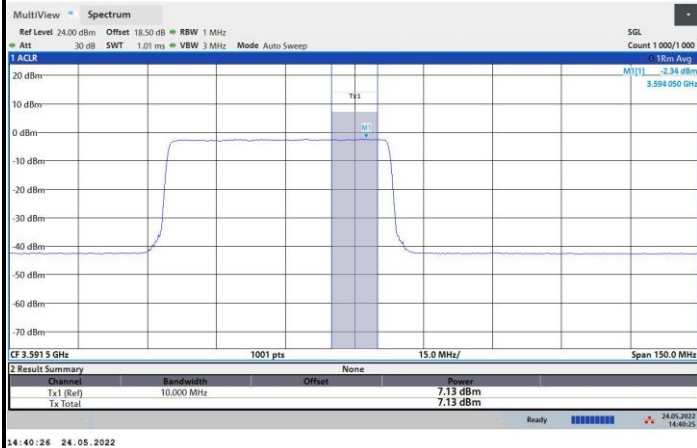


15:59:33 11.05.2022



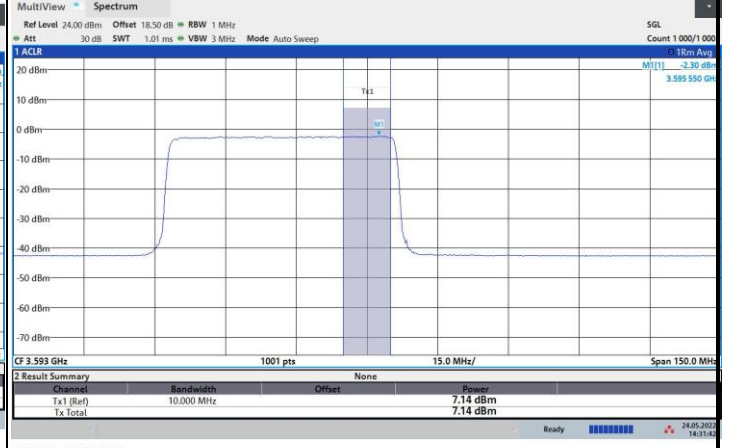
FR1 n48 / 50MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



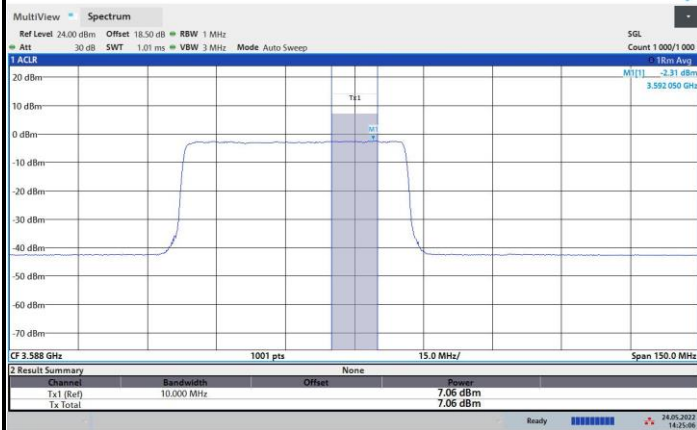
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16QAM



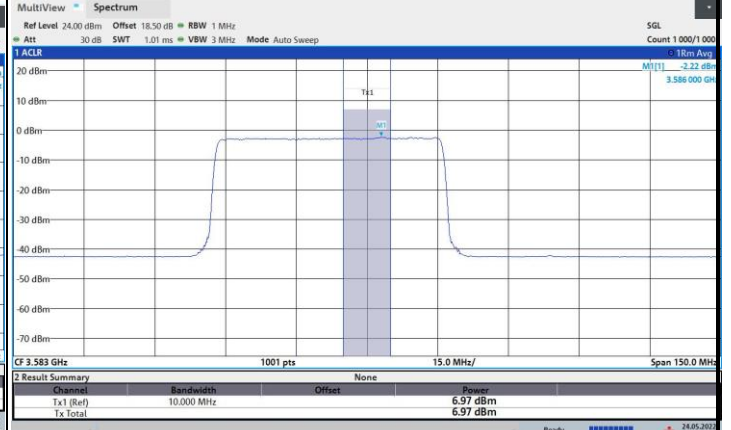
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64QAM



14:25:06 24.05.2022

256QAM

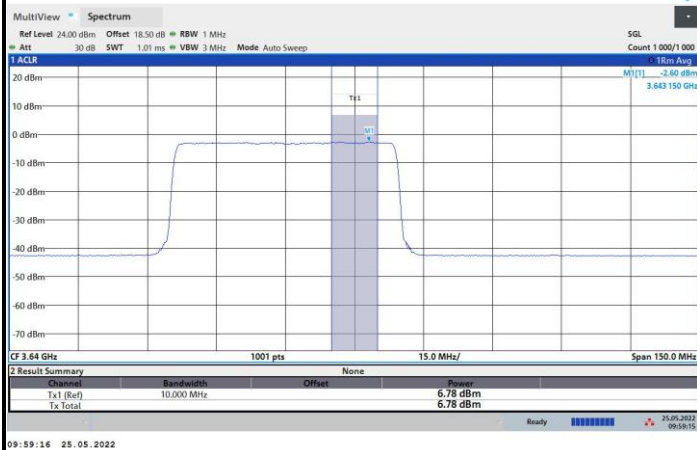


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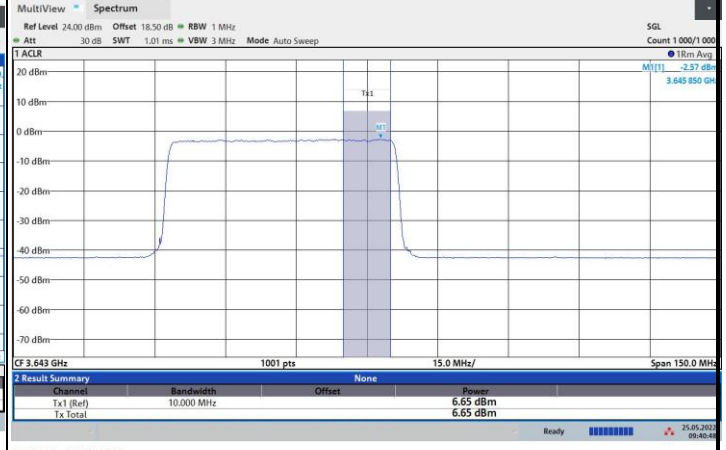
FR1 n48 / 50MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



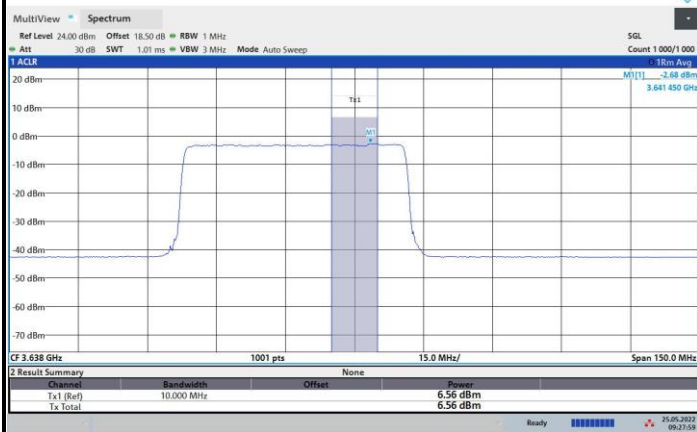
09:59:16 25.05.2022

16QAM



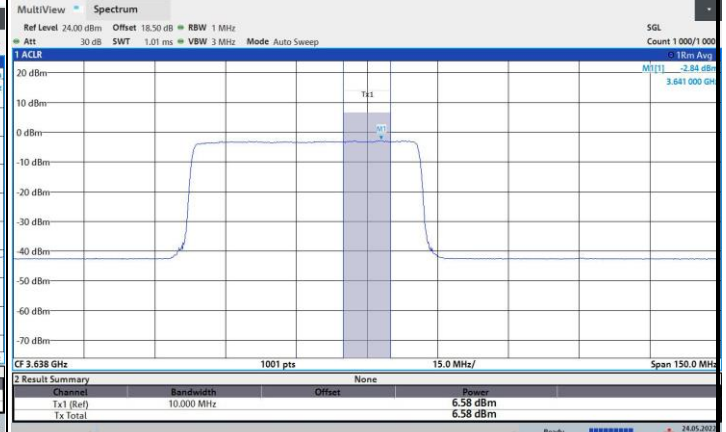
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64QAM



09:27:59 25.05.2022

256QAM

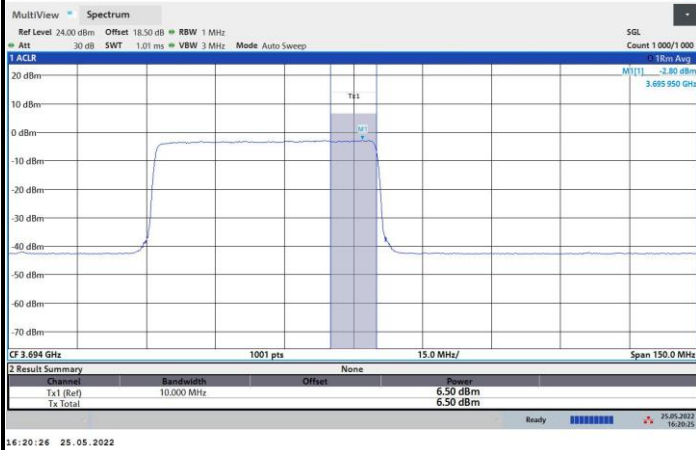


17:44:34 24.05.2022



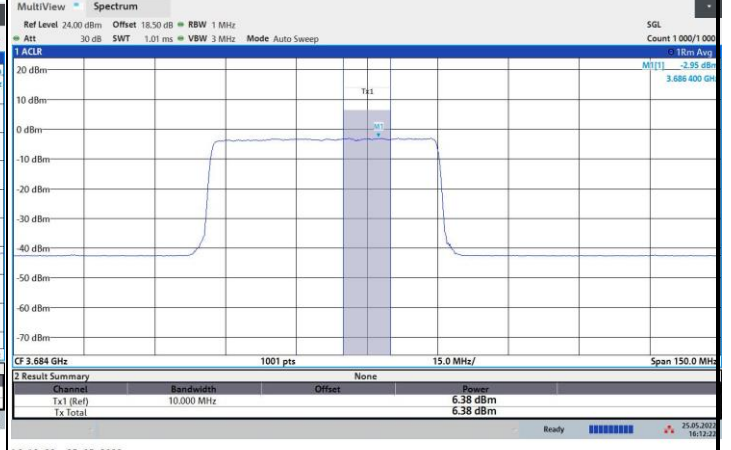
FR1 n48 / 50MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



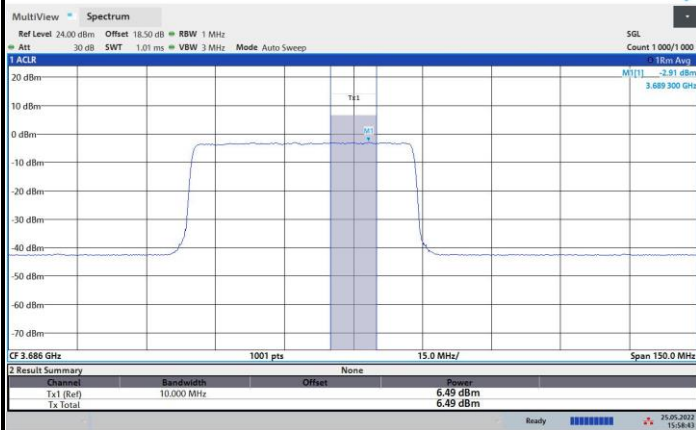
16:20:26 25.05.2022

16QAM



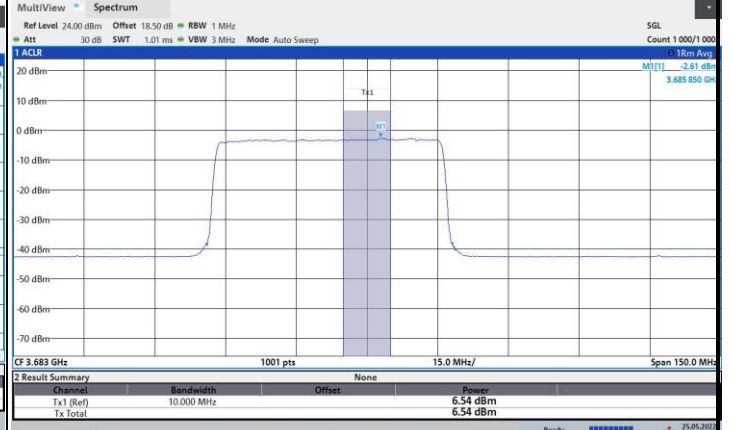
16:12:22 25.05.2022

64QAM



15:58:44 25.05.2022

256QAM

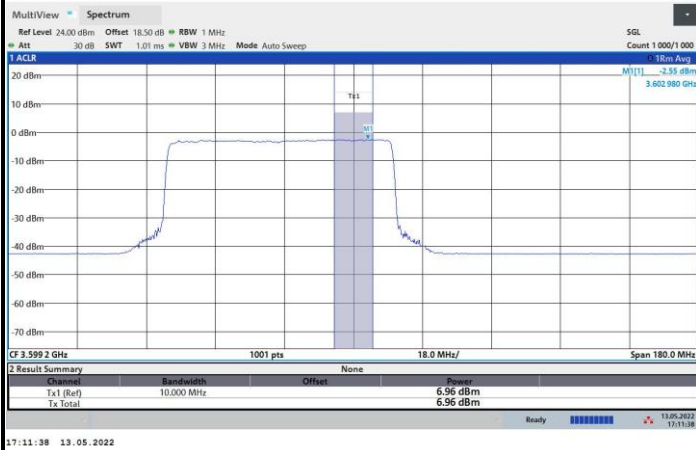


18:25:59 25.05.2022



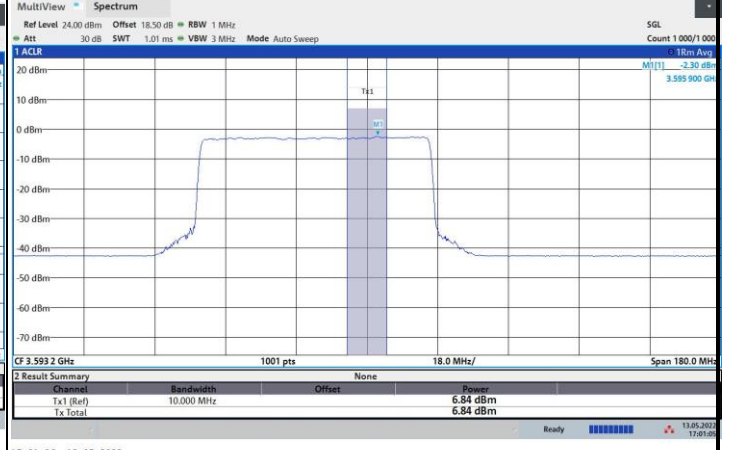
FR1 n48 / 60MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



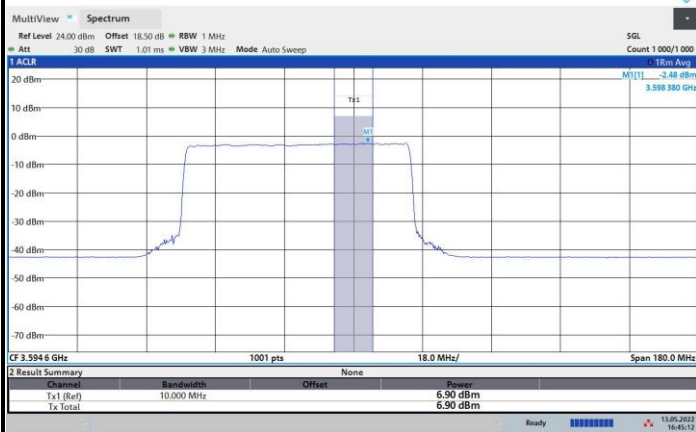
17:11:38 13.05.2022

16QAM



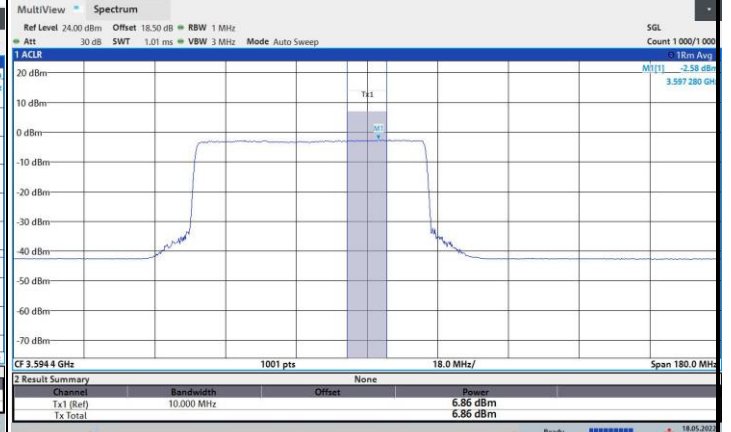
17:01:06 13.05.2022

64QAM



16:45:13 13.05.2022

256QAM

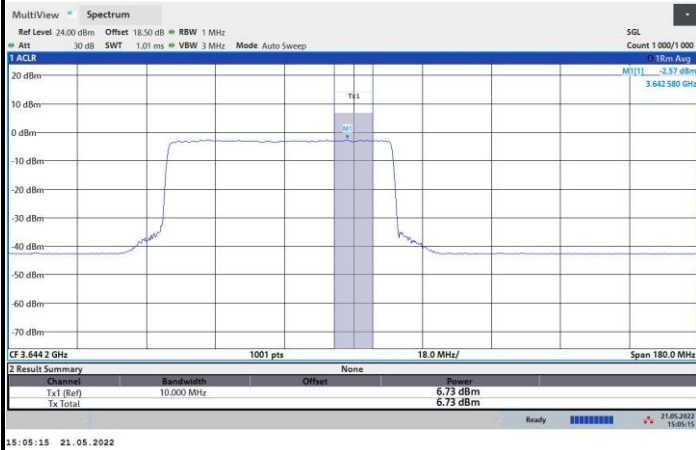


14:34:25 18.05.2022



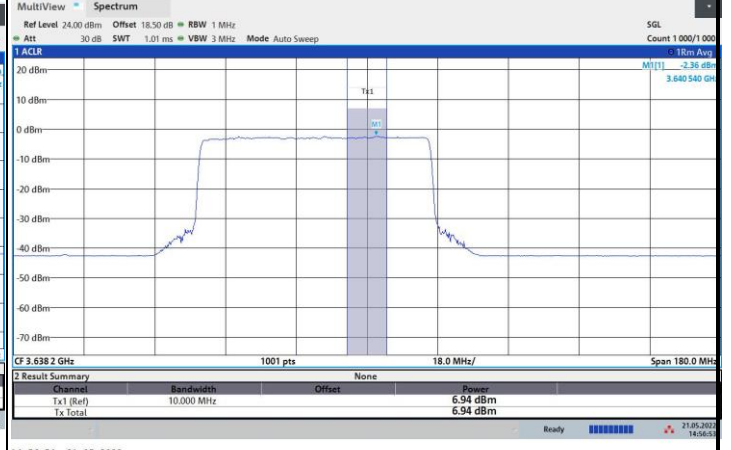
FR1 n48 / 60MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



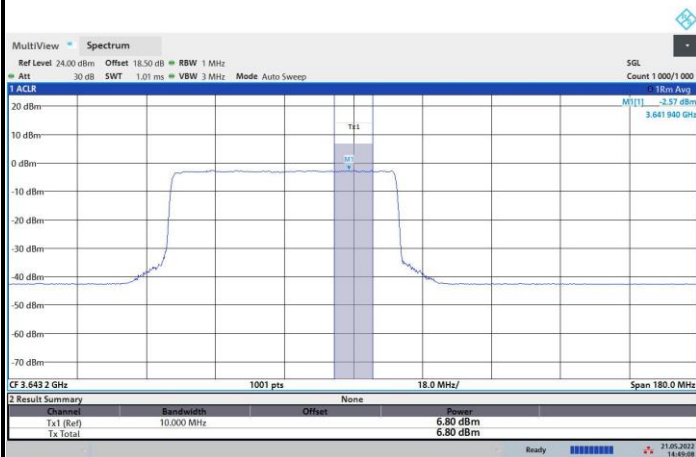
15:05:15 21.05.2022

16QAM



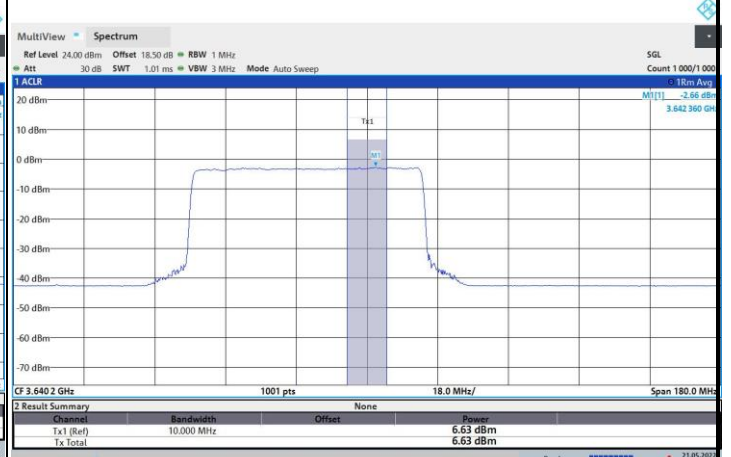
14:56:54 21.05.2022

64QAM



14:49:09 21.05.2022

256QAM

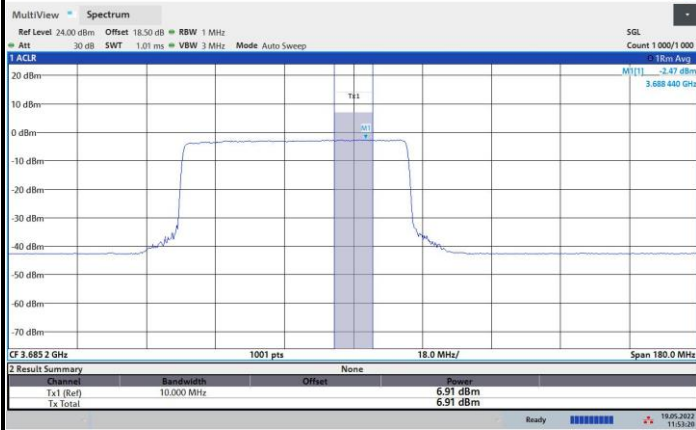


15:35:35 21.05.2022



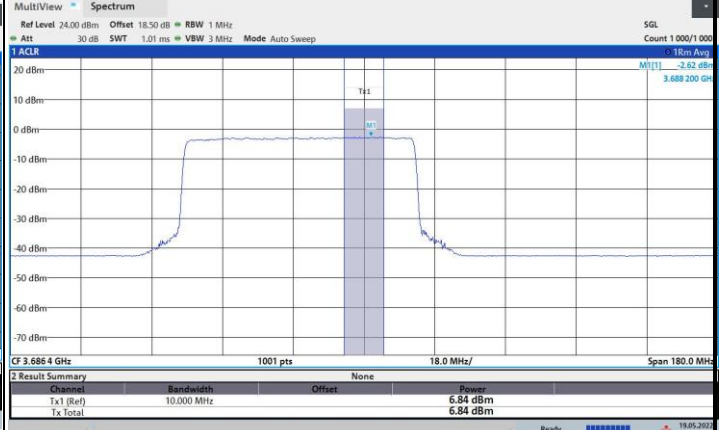
FR1 n48 / 60MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



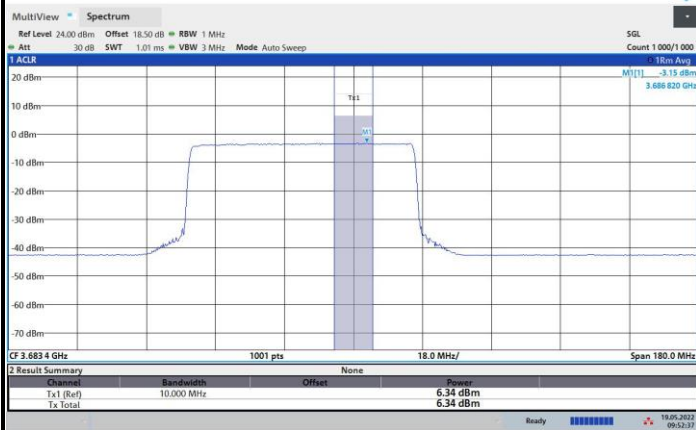
11:53:21 19.05.2022

16QAM



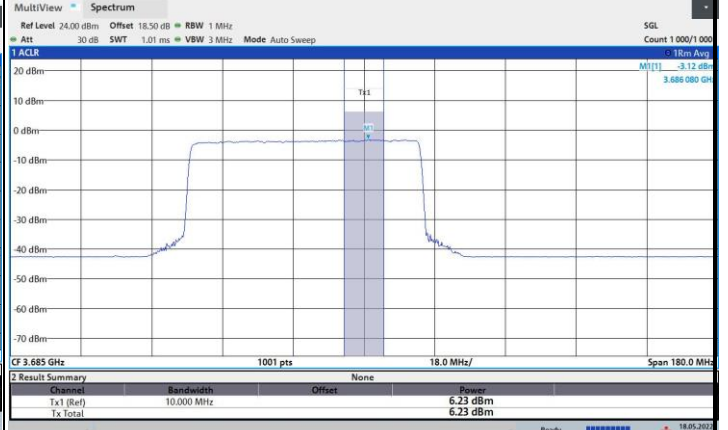
11:27:44 19.05.2022

64QAM



09:52:38 19.05.2022

256QAM

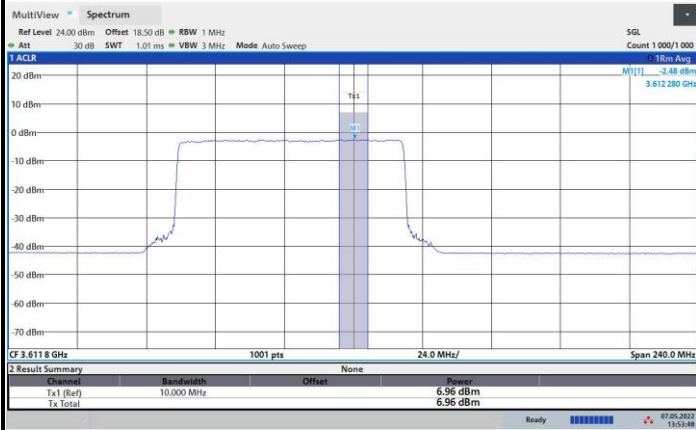


17:35:13 19.05.2022



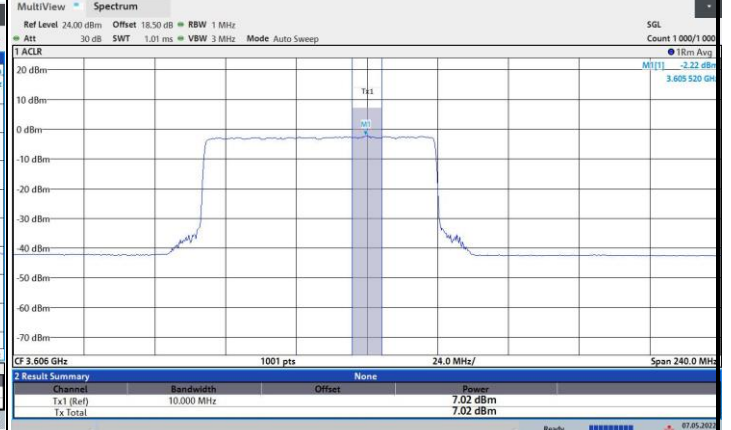
FR1 n48 / 80MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



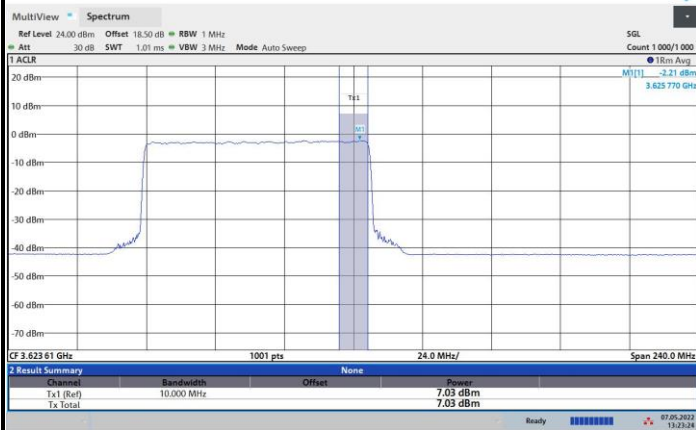
13:53:49 07.05.2022

16QAM



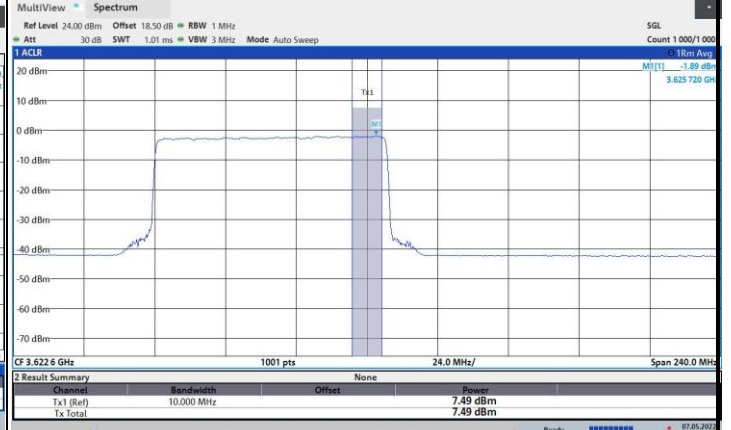
13:29:11 07.05.2022

64QAM



13:23:28 07.05.2022

256QAM



18:22:51 07.05.2022



FR1 n48 / 80MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



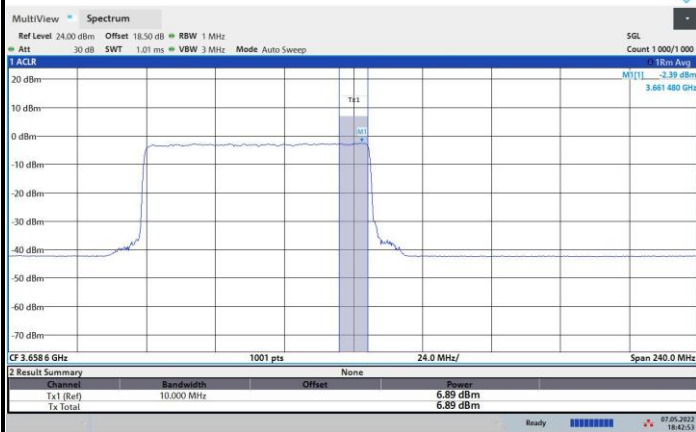
19:13:24 07.05.2022

16QAM



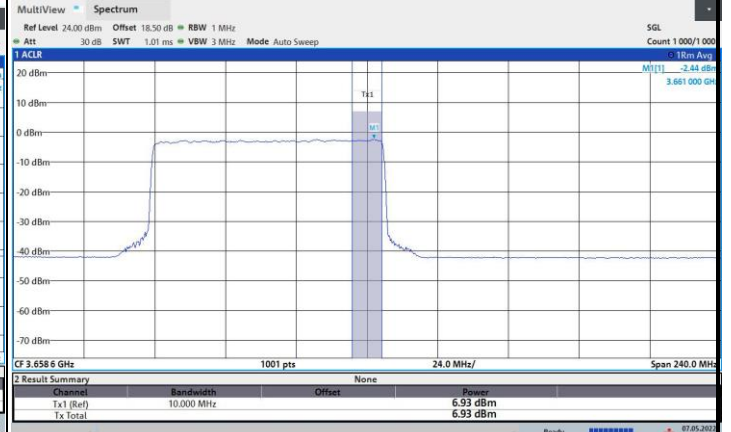
18:55:54 07.05.2022

64QAM



18:42:54 07.05.2022

256QAM



22:57:54 07.05.2022



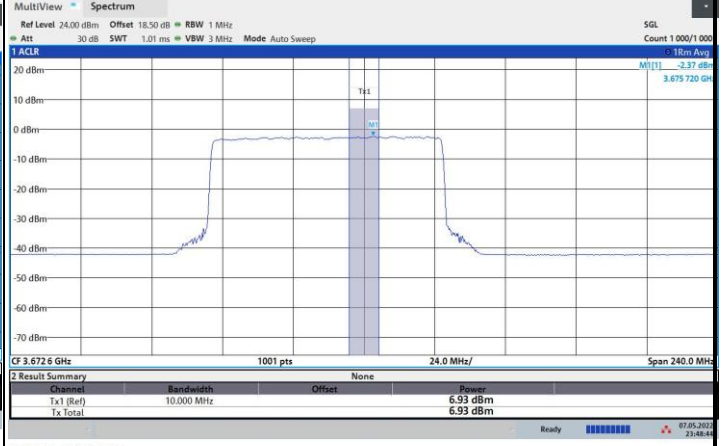
FR1 n48 / 80MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



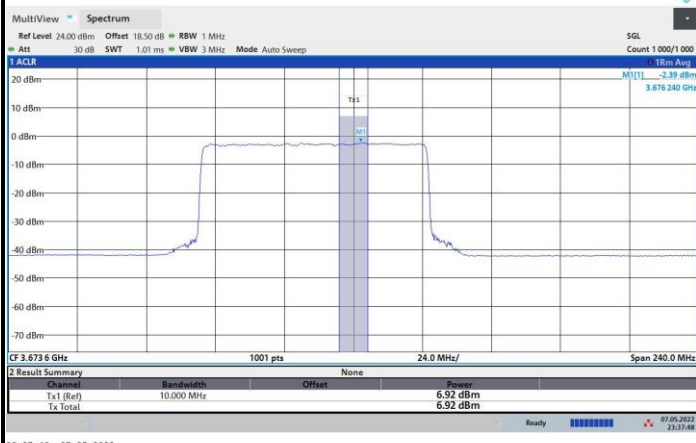
23:59:23 07.05.2022

16QAM



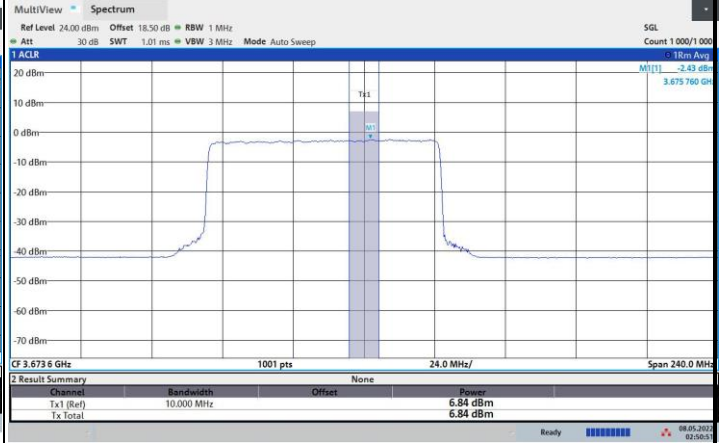
23:48:45 07.05.2022

64QAM



23:57:49 07.05.2022

256QAM

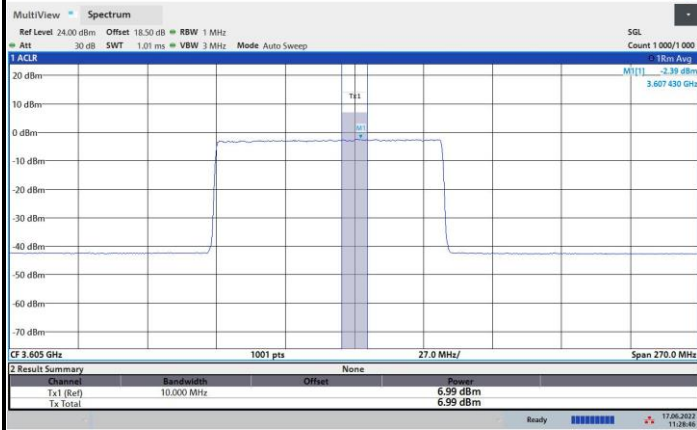


02:50:51 08.05.2022



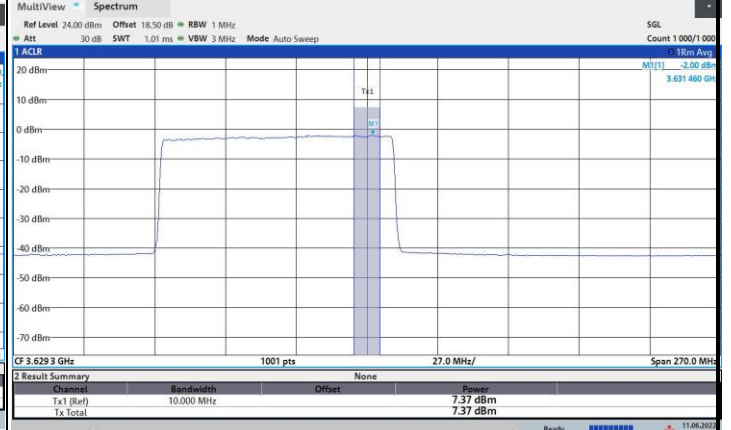
FR1 n48 / 90MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



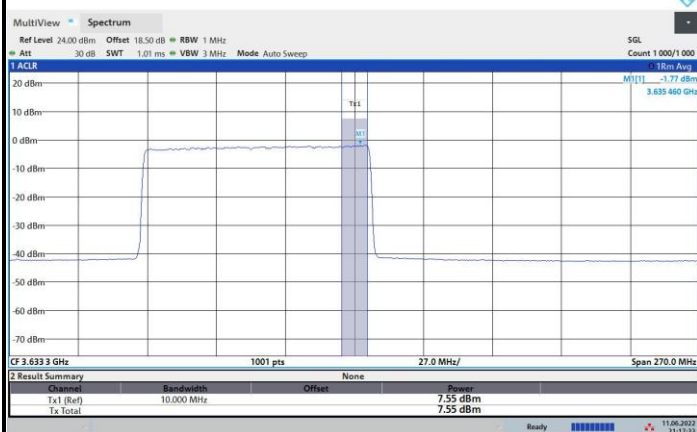
11:28:46 17.06.2022

16QAM



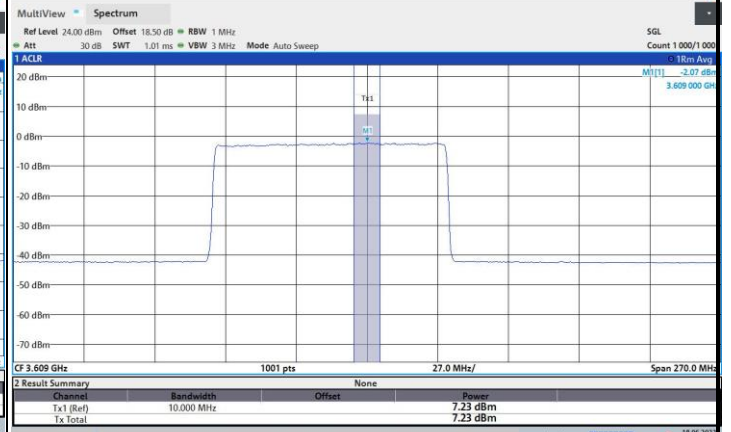
21:24:01 11.06.2022

64QAM



21:17:33 11.06.2022

256QAM

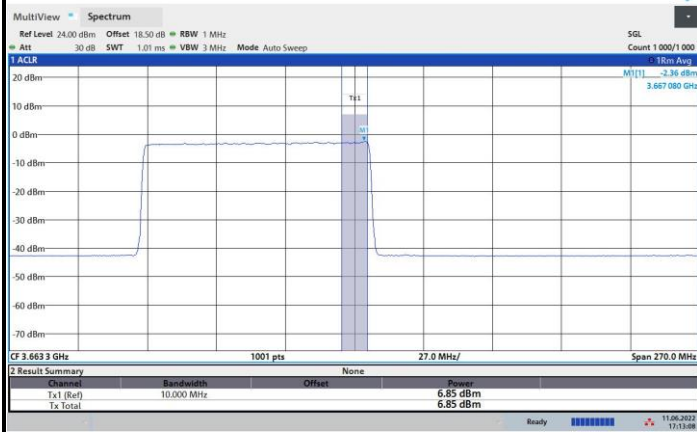


13:06:59 18.06.2022



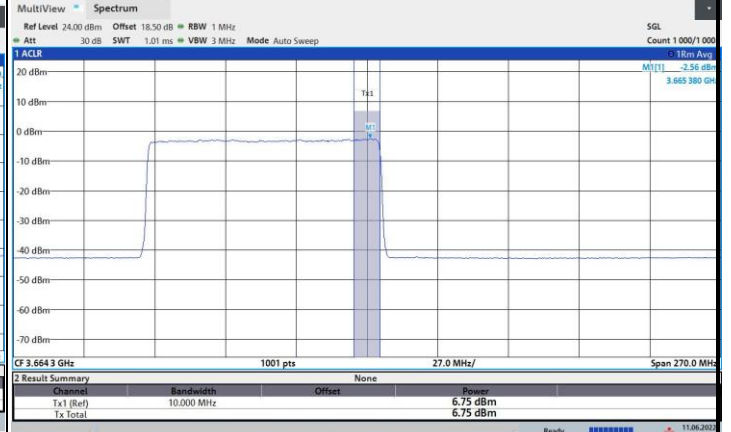
FR1 n48 / 90MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



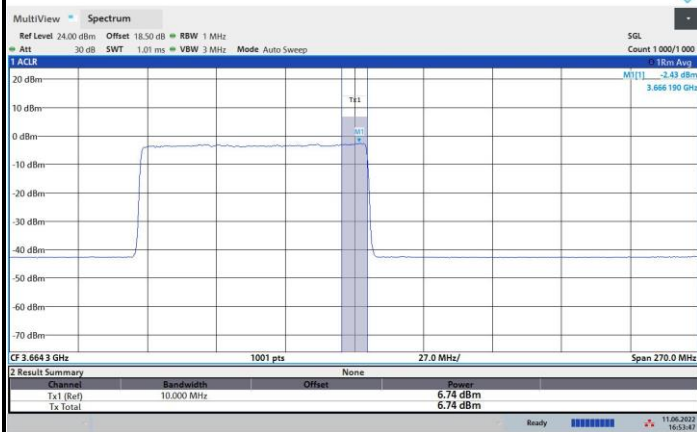
17:13:09 11.06.2022

16QAM



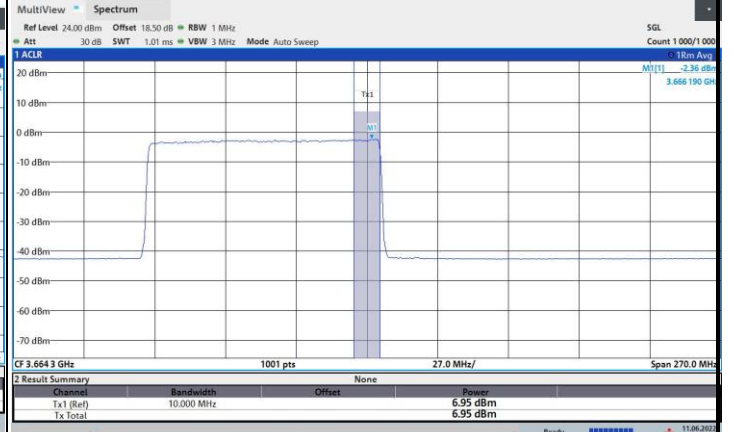
17:07:17 11.06.2022

64QAM



16:53:47 11.06.2022

256QAM



19:58:45 11.06.2022