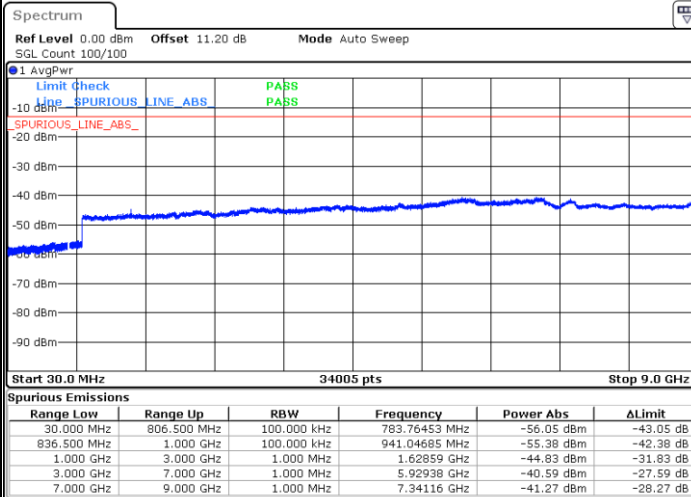




Emission masks – Out of band emissions

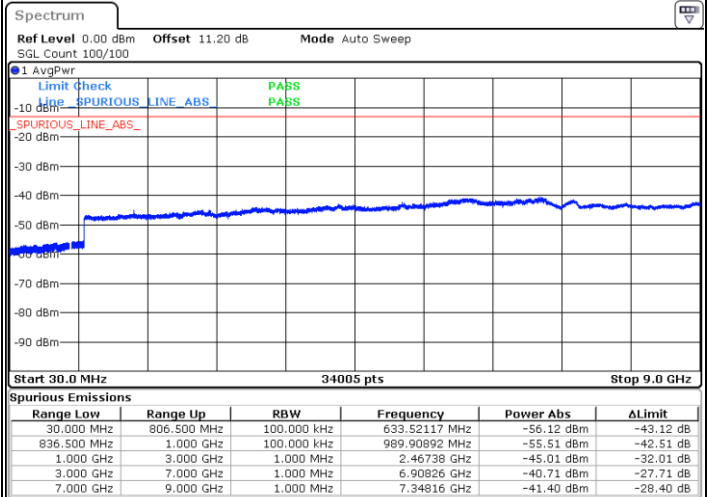
LTE Band 26 / 1.4MHz

Lowest Channel / QPSK



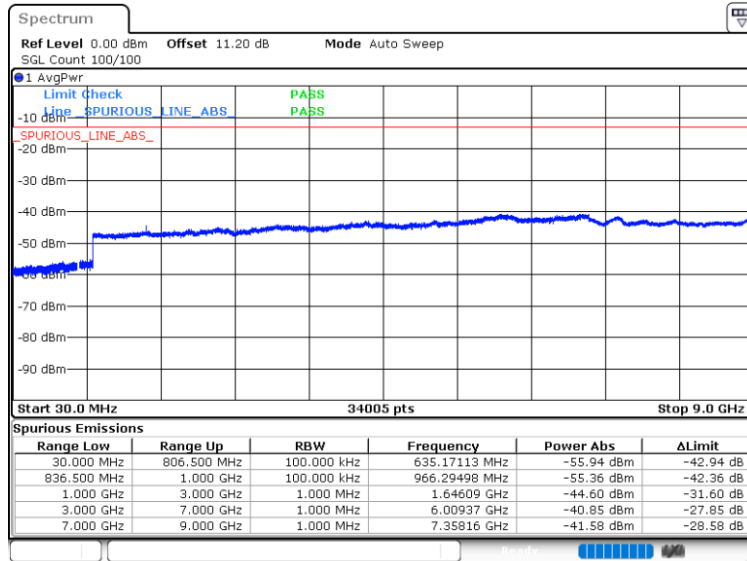
Date: 6.MAY.2022 11:36:15

Middle Channel / QPSK



Date: 6.MAY.2022 11:38:56

Highest Channel / QPSK

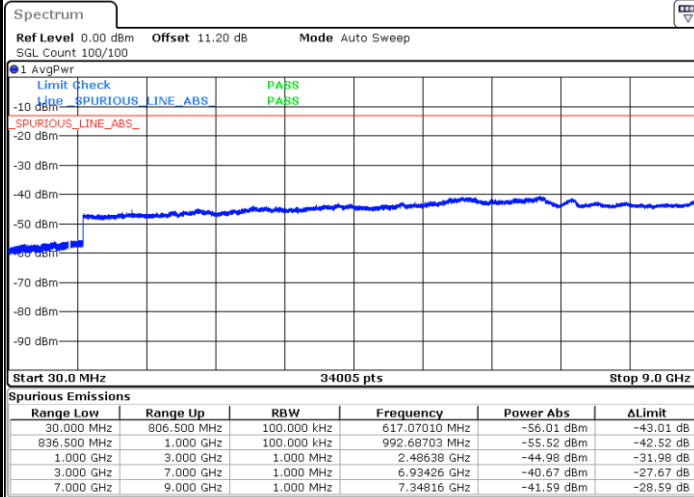


Date: 6.MAY.2022 11:40:01



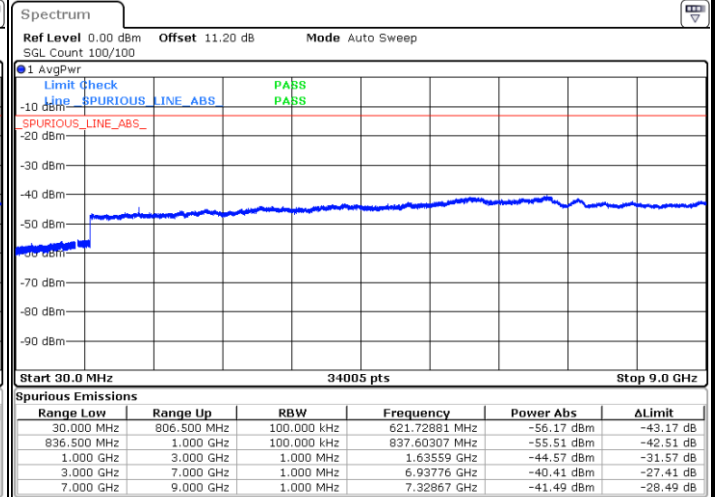
LTE Band 26 / 3MHz

Lowest Channel / QPSK



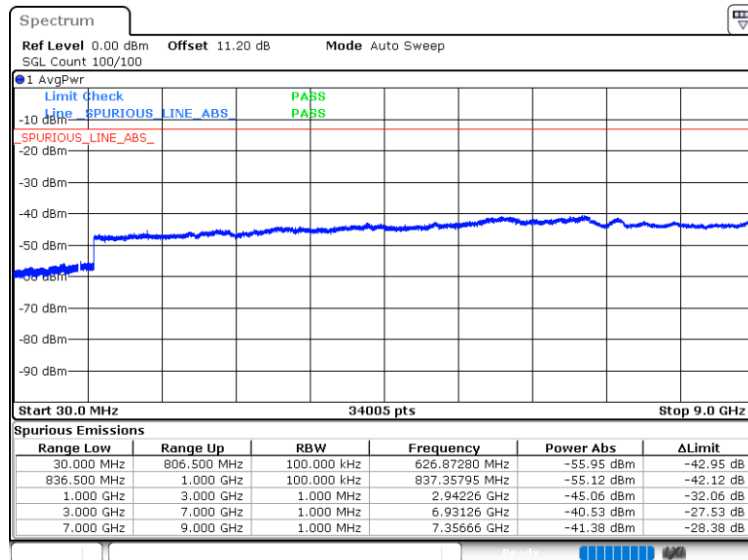
Date: 6.MAY.2022 11:54:08

Middle Channel / QPSK



Date: 6.MAY.2022 11:55:13

Highest Channel / QPSK

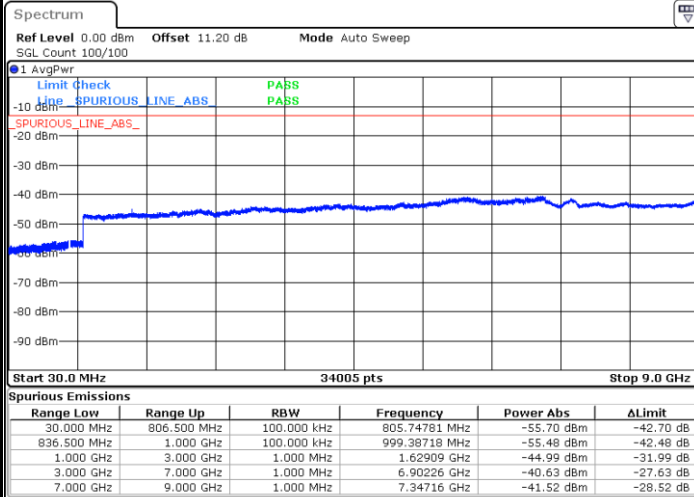


Date: 6.MAY.2022 11:56:17



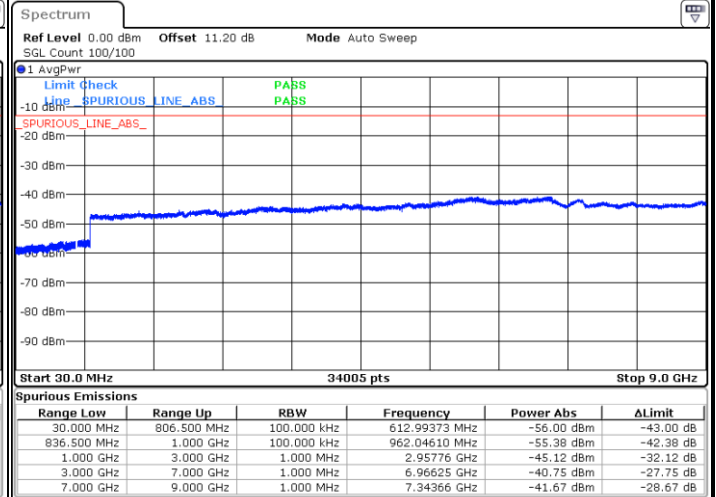
LTE Band 26 / 5MHz

Lowest Channel / QPSK



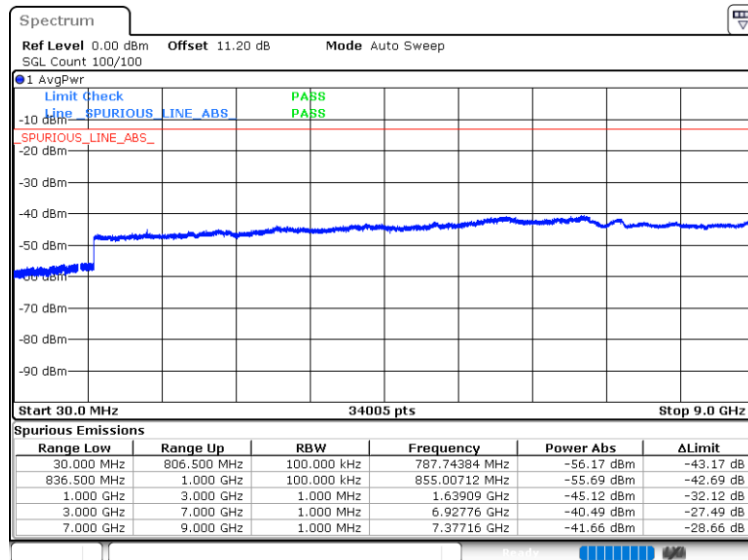
Date: 6.MAY.2022 12:08:53

Middle Channel / QPSK

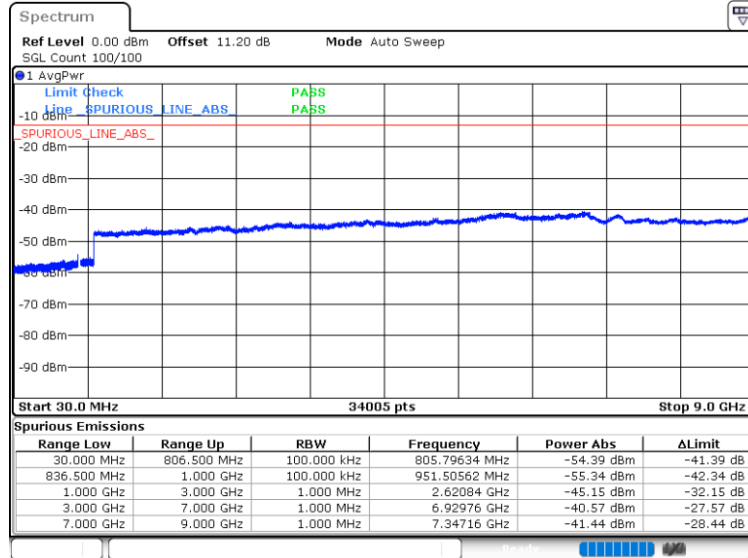
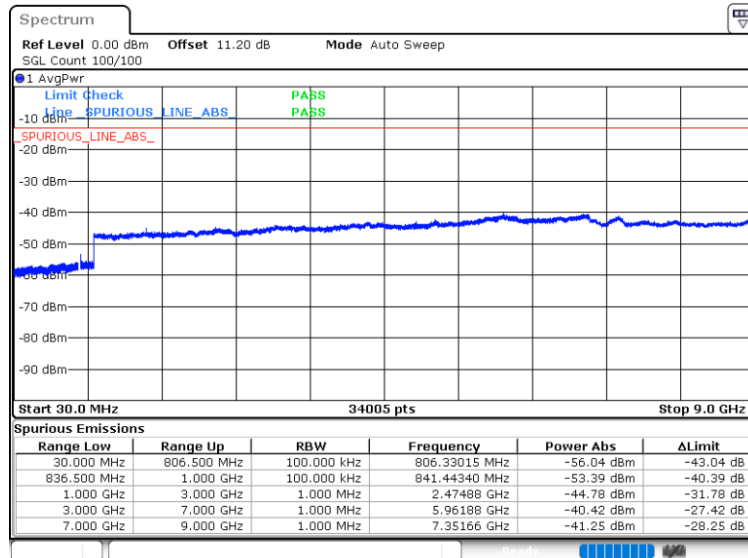


Date: 6.MAY.2022 12:11:34

Highest Channel / QPSK



Date: 6.MAY.2022 12:12:39

LTE Band 26 / 10MHz
Middle Channel / QPSK

LTE Band 26 / 15MHz
Middle Channel / QPSK


Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0068	PASS
40	Normal Voltage	0.0098	
30	Normal Voltage	0.0103	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0122	
0	Normal Voltage	0.0073	
-10	Normal Voltage	0.0099	
-20	Normal Voltage	0.0062	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0068	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0101	PASS
40	Normal Voltage	0.0095	
30	Normal Voltage	0.0130	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0192	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0192	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26_824MHz

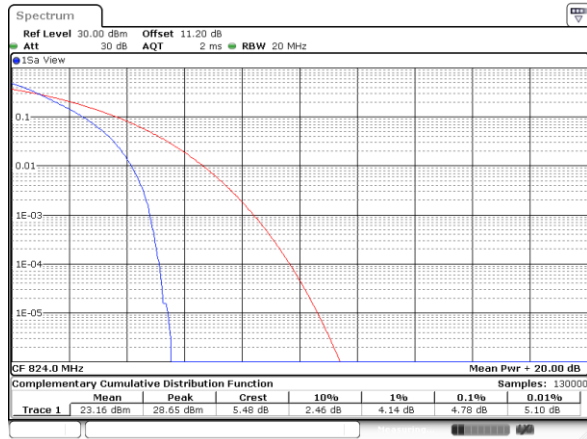
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.78	5.68	5.62	-	PASS



LTE Band 26 / 15MHz / QPSK

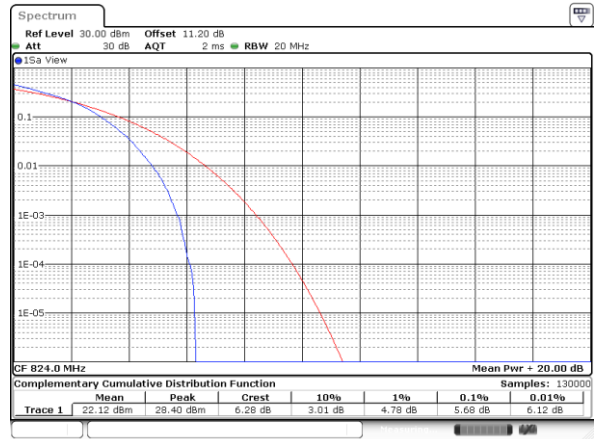
Middle Channel / Full RB



Date: 6.MAY.2022 11:27:56

LTE Band 26 / 15MHz / 16QAM

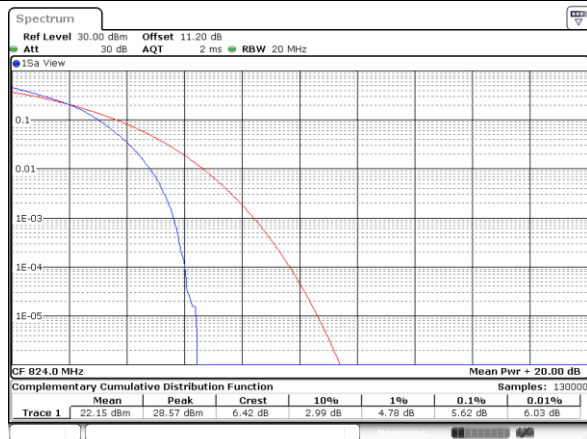
Middle Channel / Full RB



Date: 6.MAY.2022 11:28:22

LTE Band 26 / 15MHz / 64QAM

Middle Channel / Full RB



Date: 6.MAY.2022 11:28:48

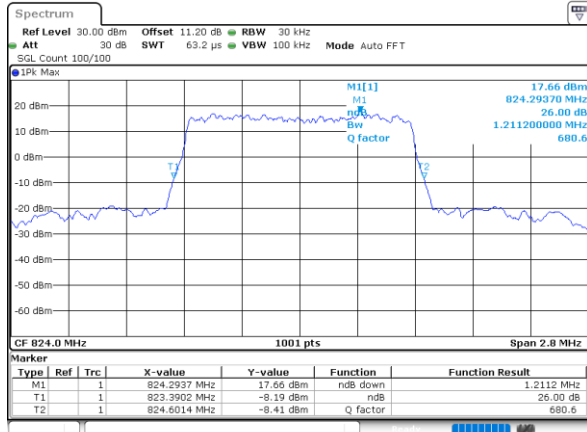
**26dB Bandwidth**

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.21	1.22	3.02	3.05	4.89	4.82	9.71	9.79	14.45	14.15	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.23	-	3.04	-	4.89	-	9.73	-	14.33	-	-	-



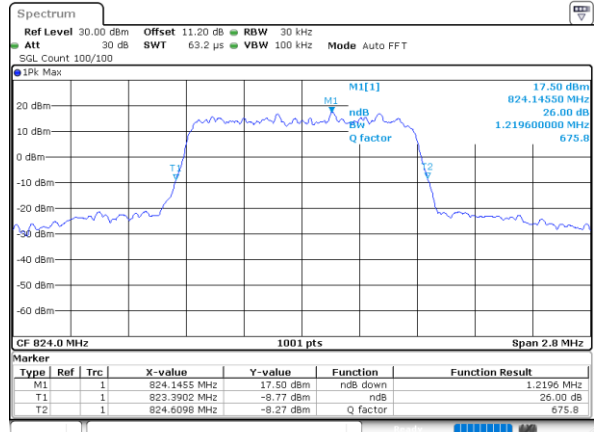
LTE Band 26

Middle Channel / 1.4MHz / QPSK



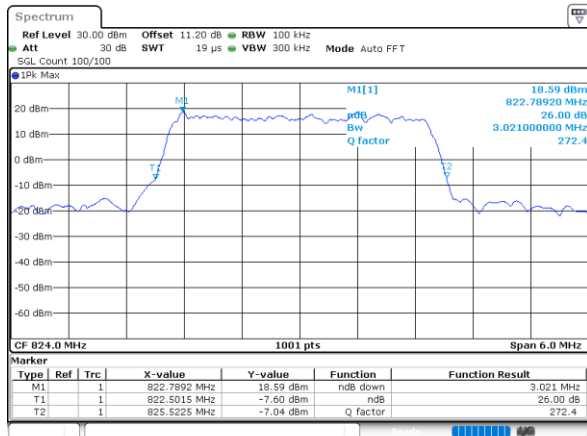
Date: 6.MAY.2022 11:11:35

Middle Channel / 1.4MHz / 16QAM



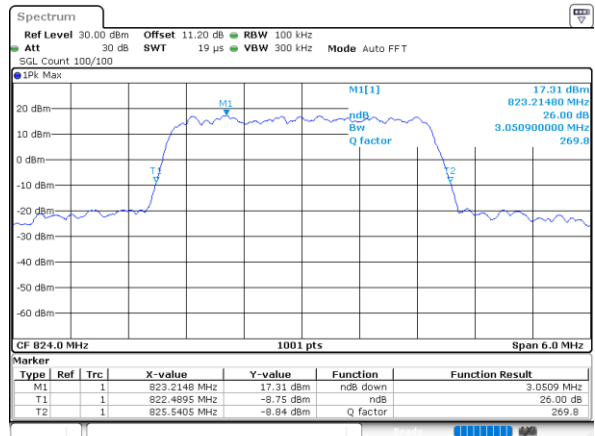
Date: 6.MAY.2022 11:12:00

Middle Channel / 3MHz / QPSK



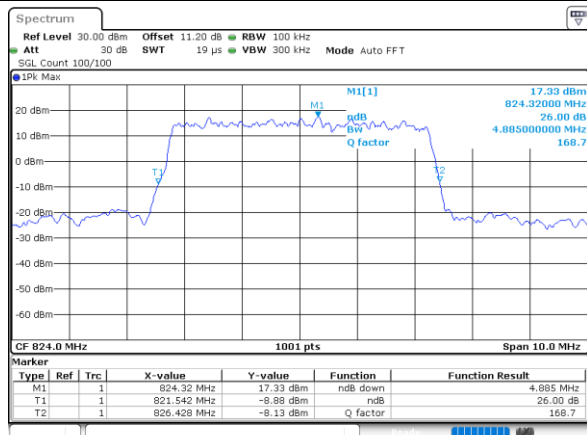
Date: 6.MAY.2022 11:15:05

Middle Channel / 3MHz / 16QAM



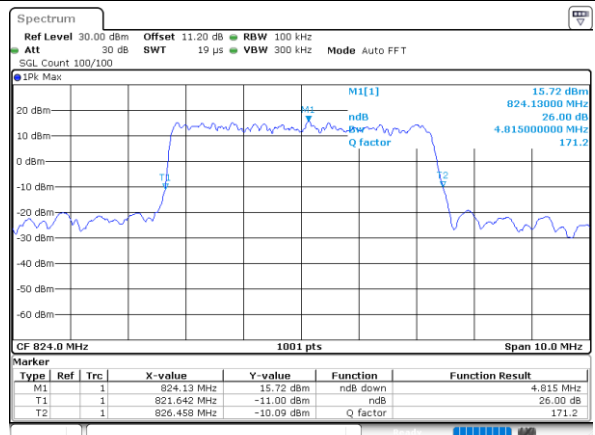
Date: 6.MAY.2022 11:15:30

Middle Channel / 5MHz / QPSK



Date: 6.MAY.2022 11:18:36

Middle Channel / 5MHz / 16QAM

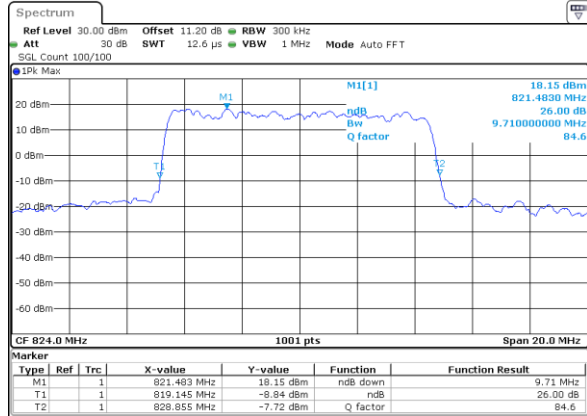


Date: 6.MAY.2022 11:19:01



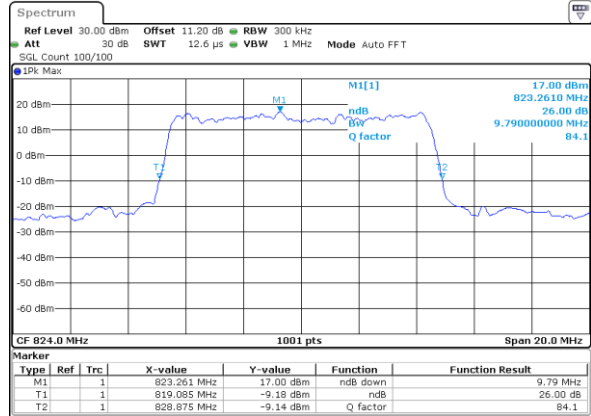
LTE Band 26

Middle Channel / 10MHz / QPSK



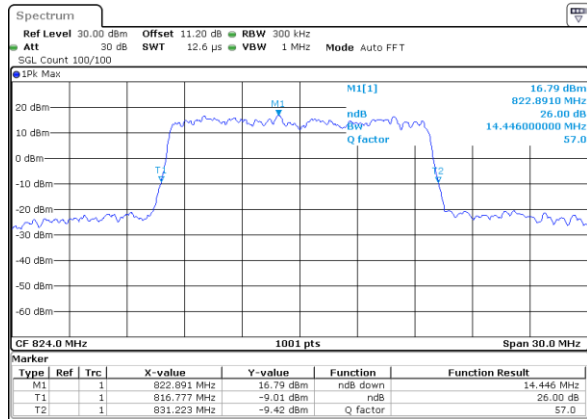
Date: 6.MAY.2022 11:22:06

Middle Channel / 10MHz / 16QAM



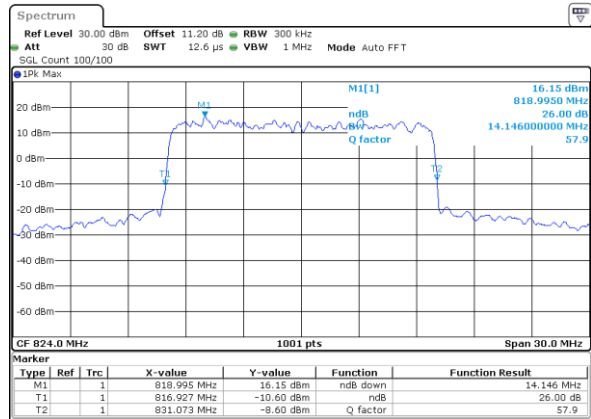
Date: 6.MAY.2022 11:22:30

Middle Channel / 15MHz / QPSK



Date: 6.MAY.2022 11:25:37

Middle Channel / 15MHz / 16QAM

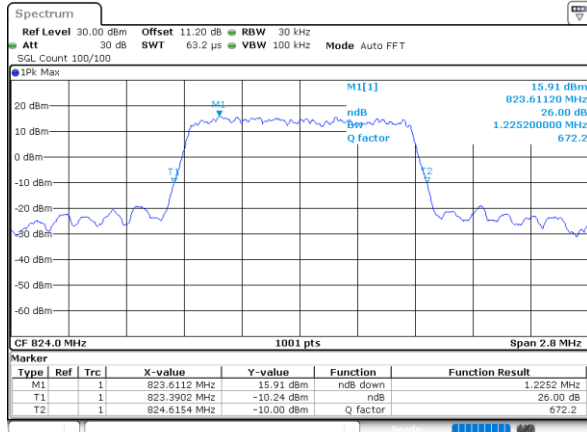


Date: 6.MAY.2022 11:26:01



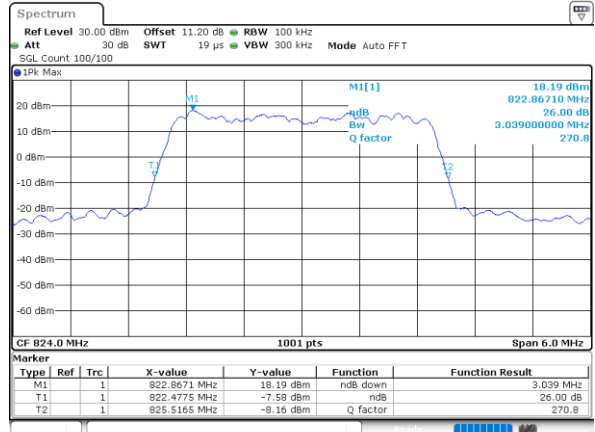
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



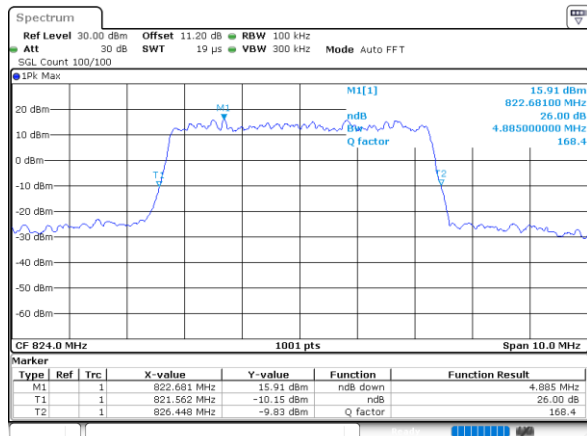
Date: 6.MAY.2022 11:12:24

Middle Channel / 3MHz / 64QAM



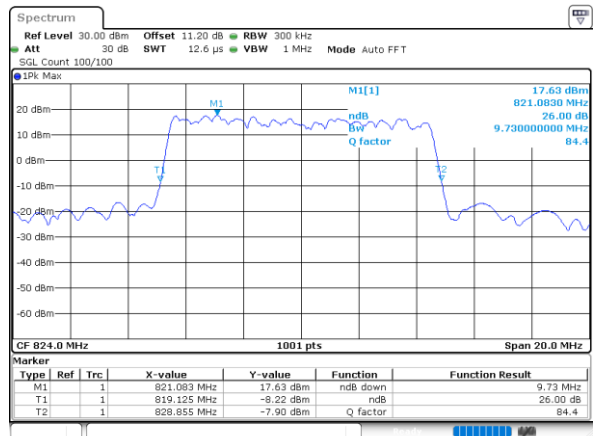
Date: 6.MAY.2022 11:15:54

Middle Channel / 5MHz / 64QAM



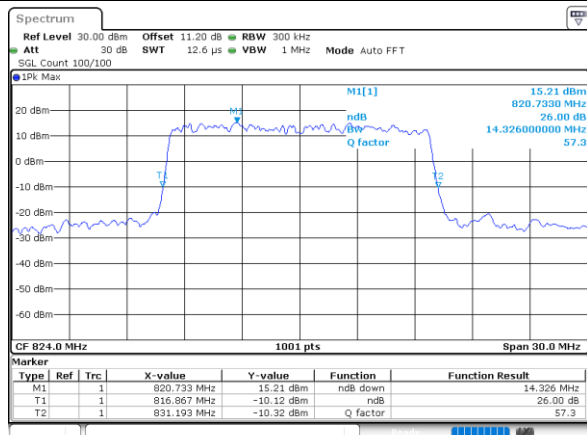
Date: 6.MAY.2022 11:18:25

Middle Channel / 10MHz / 64QAM



Date: 6.MAY.2022 11:22:55

Middle Channel / 15MHz / 64QAM



Date: 6.MAY.2022 11:26:25

N/A

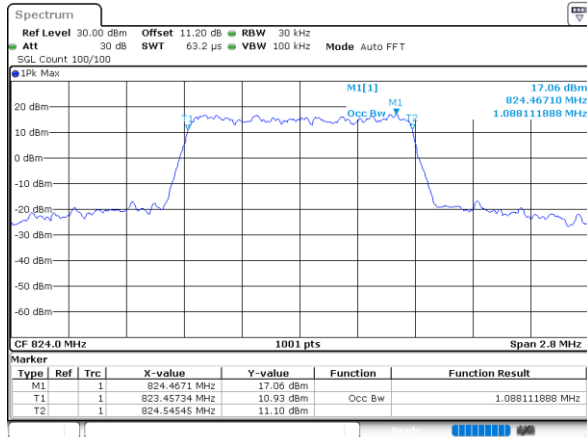
**Occupied Bandwidth**

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.72	4.50	4.50	9.03	8.99	13.40	13.44	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.08	-	2.72	-	4.49	-	9.01	-	13.46	-	-	-

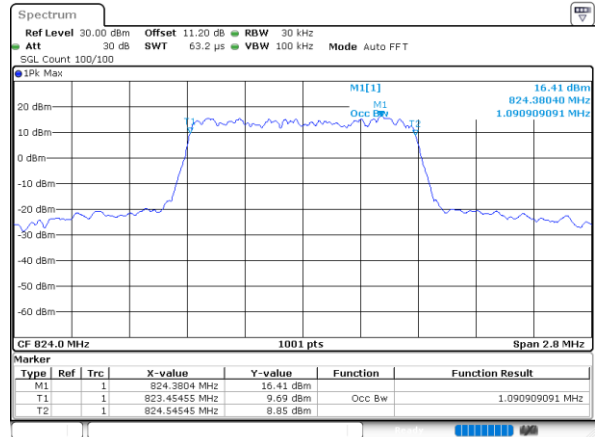


LTE Band 26

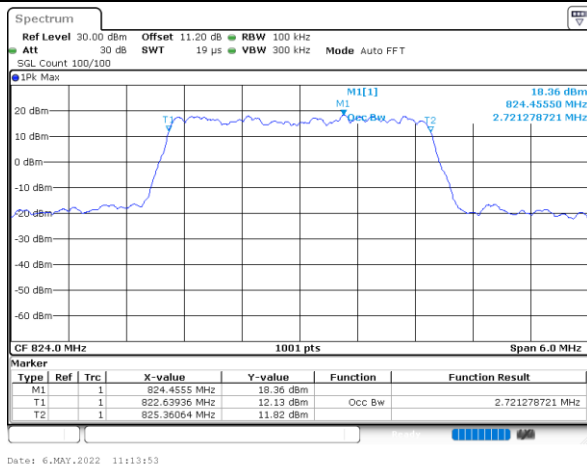
Middle Channel / 1.4MHz / QPSK



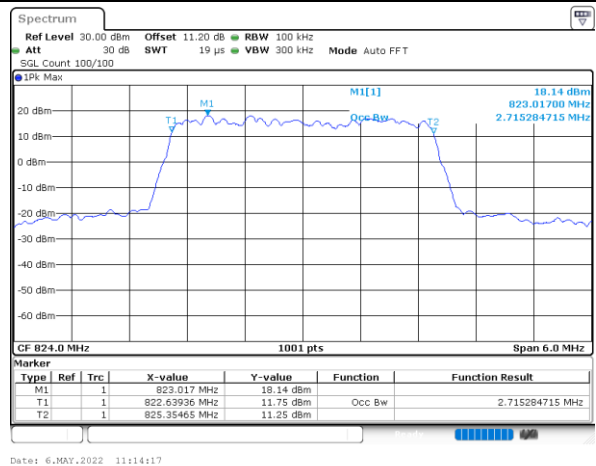
Middle Channel / 1.4MHz / 16QAM



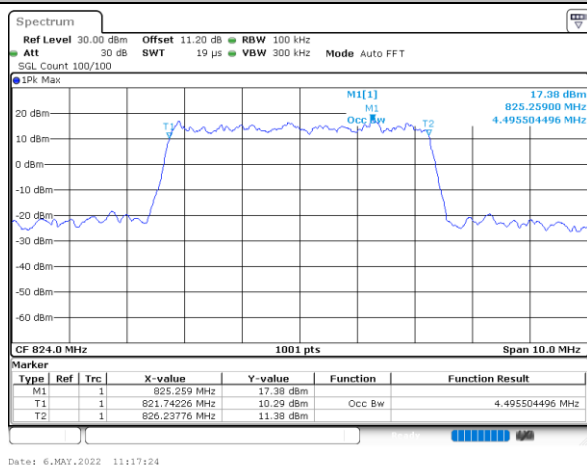
Middle Channel / 3MHz / QPSK



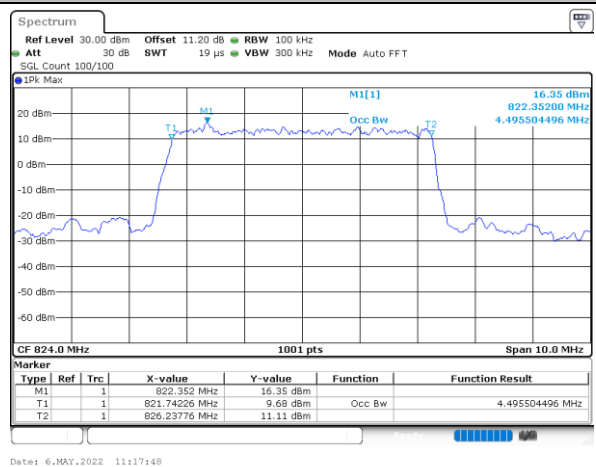
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



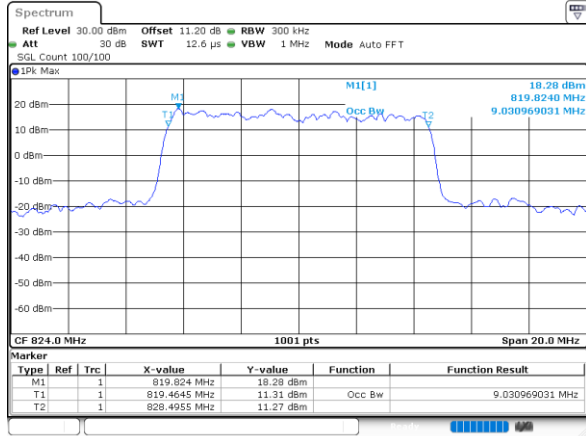
Middle Channel / 5MHz / 16QAM



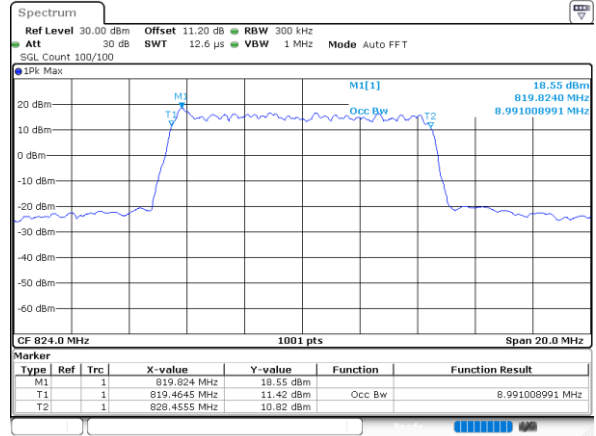


LTE Band 26

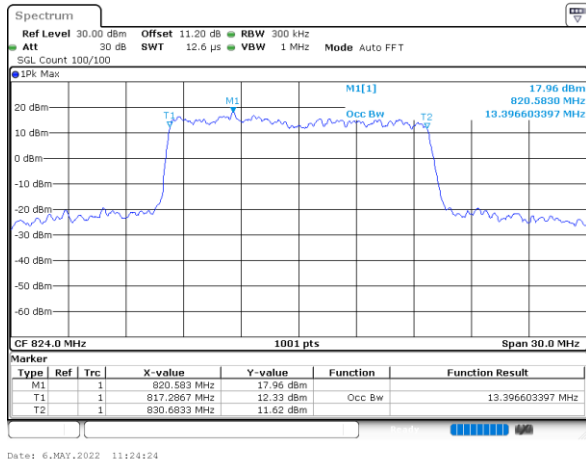
Middle Channel / 10MHz / QPSK



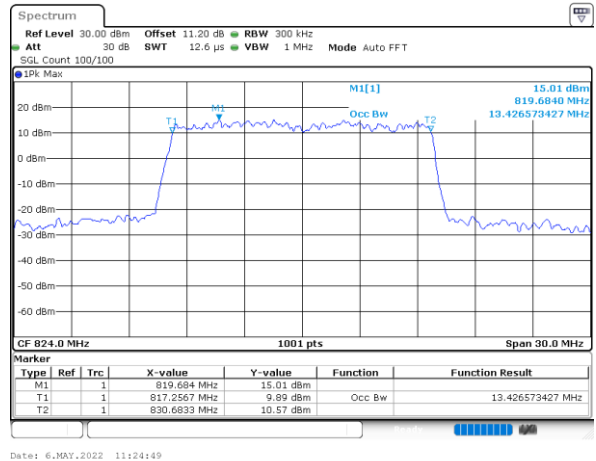
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



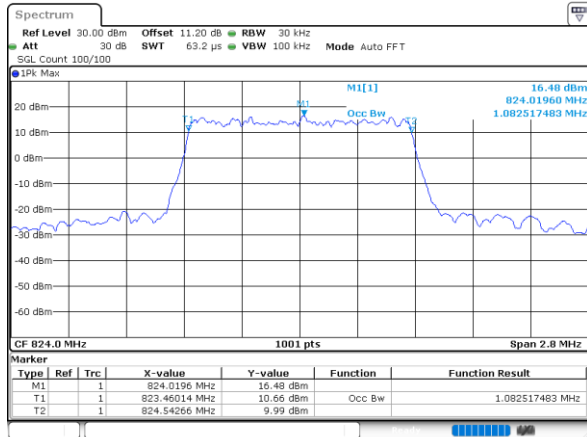
Middle Channel / 15MHz / 16QAM



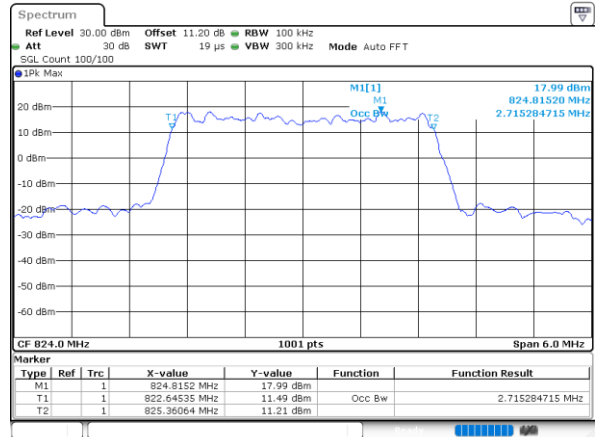


LTE Band 26

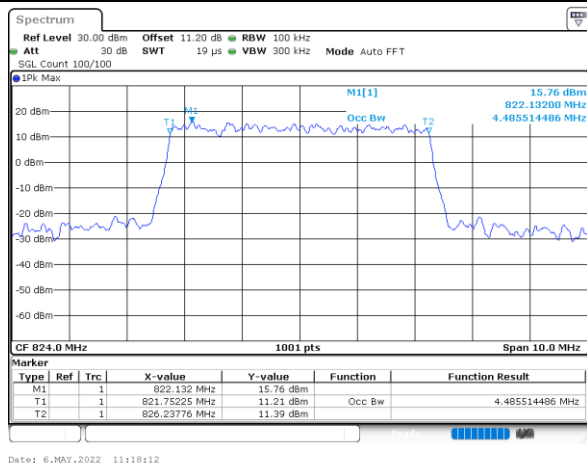
Middle Channel / 1.4MHz / 64QAM



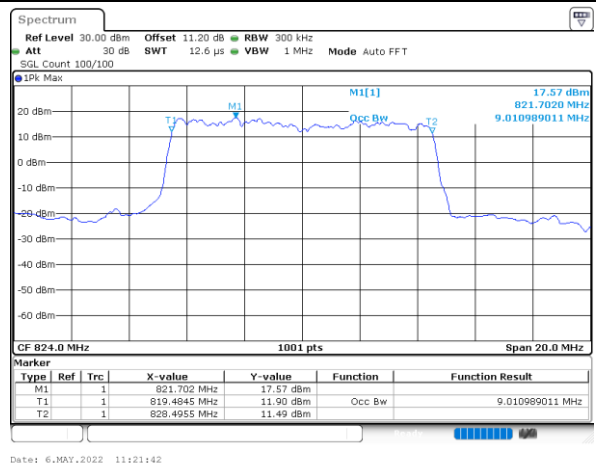
Middle Channel / 3MHz / 64QAM



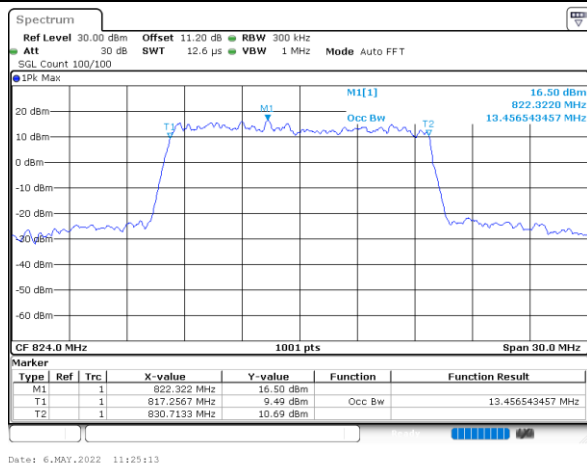
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



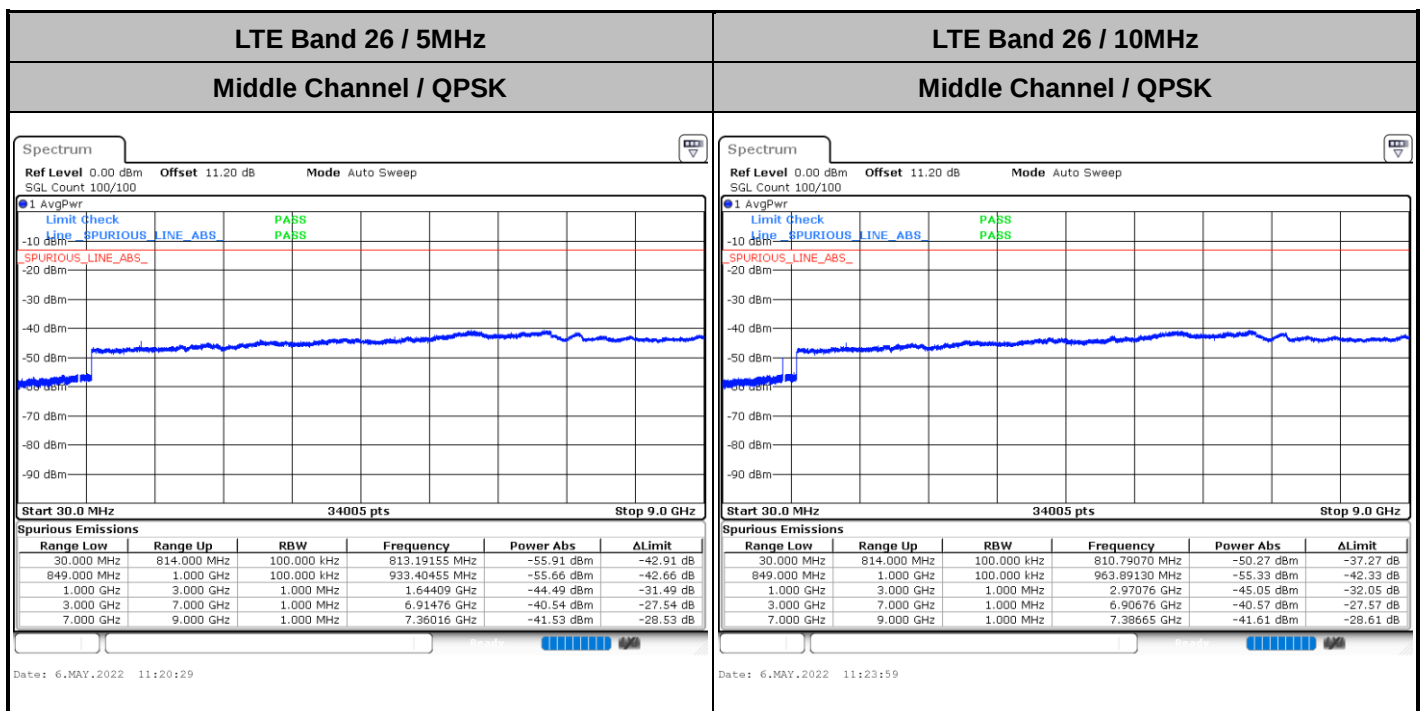
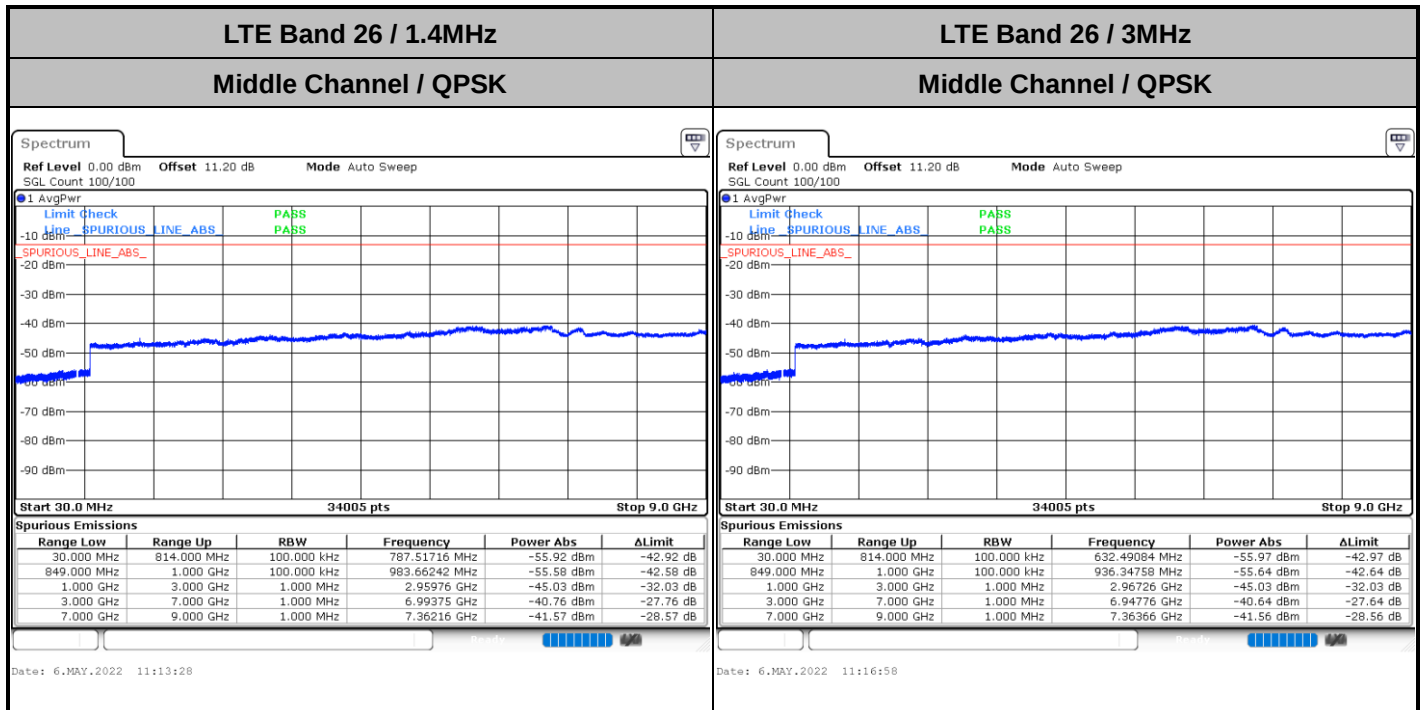
Middle Channel / 15MHz / 64QAM



N/A



Conducted Spurious Emission



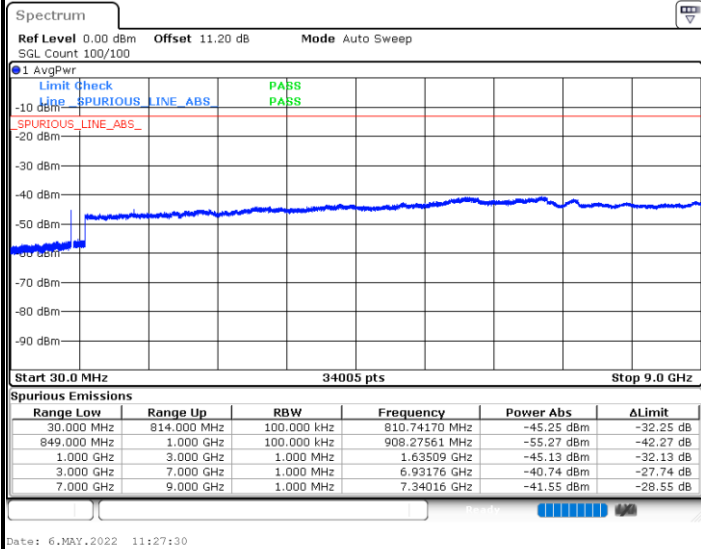


LTE Band 26 / 15MHz

N/A

Middle Channel / QPSK

N/A





Appendix B. Test Results of Radiated Test

LTE Band 26

LTE Band 26 / 5MHz / 1RB0 QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1628	-65.08	-13	-52.08	-76.83	-66.9	0.97	4.94	H
	2442	-61.00	-13	-48.00	-77.71	-62.8	1.27	5.23	H
	3256	-58.45	-13	-45.45	-77.68	-61.7	1.53	6.93	H
									H
									H
									H
	1628	-63.98	-13	-50.98	-76.1	-65.8	0.97	4.94	V
	2442	-59.60	-13	-46.60	-76.96	-61.4	1.27	5.23	V
	3256	-58.85	-13	-45.85	-78.05	-62.1	1.53	6.93	V
									V
									V
									V
Middle	1633	-64.99	-13	-51.99	-76.52	-66.8	0.97	4.93	H
	2450	-60.88	-13	-47.88	-77.69	-62.7	1.28	5.25	H
	3266	-59.71	-13	-46.71	-78.2	-63	1.53	6.97	H
									H
									H
									H
	1633	-63.99	-13	-50.99	-75.73	-65.8	0.97	4.93	V
	2450	-60.28	-13	-47.28	-77.48	-62.1	1.28	5.25	V
	3266	-58.81	-13	-45.81	-78.01	-62.1	1.53	6.97	V
									V
									V
									V



Highest	1638	-64.71	-13	-51.71	-76.36	-66.5	0.97	4.91	H
	2457	-60.46	-13	-47.46	-77.24	-62.3	1.28	5.27	H
	3276	-58.77	-13	-45.77	-77.65	-62.1	1.53	7.01	H
									H
									H
									H
	1638	-64.11	-13	-51.11	-76.37	-65.9	0.97	4.91	V
	2457	-59.86	-13	-46.86	-77.17	-61.7	1.28	5.27	V
	3276	-58.97	-13	-45.97	-78.38	-62.3	1.53	7.01	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.