



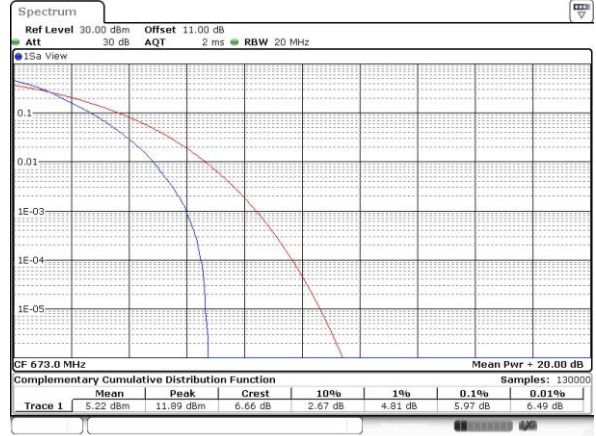
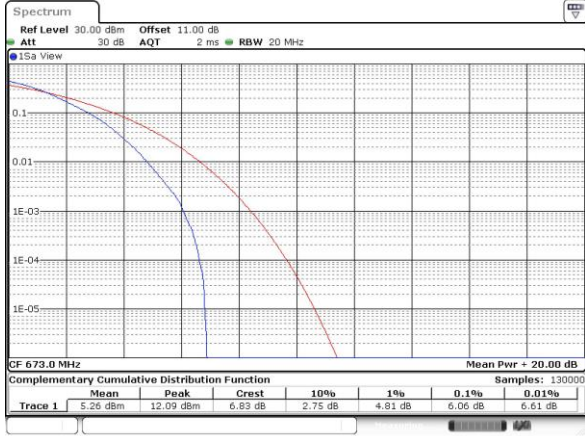
FR1 n71AA / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

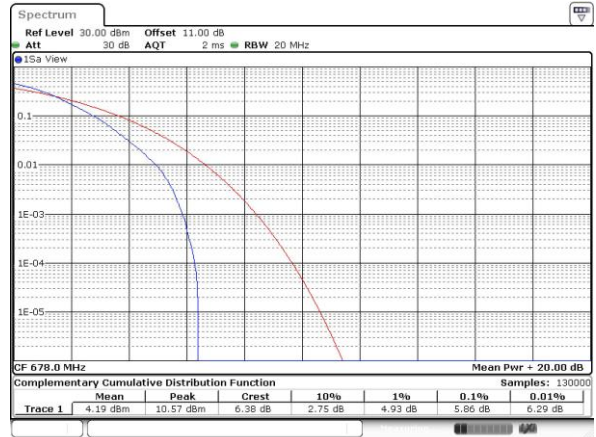
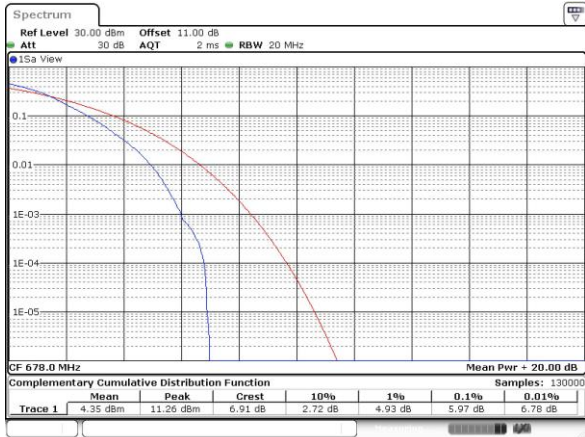


Date: 13 JUN 2023 11:31:59

Date: 13 JUN 2023 11:32:27

Middle Channel / 1 RB

Middle Channel / 1 RB

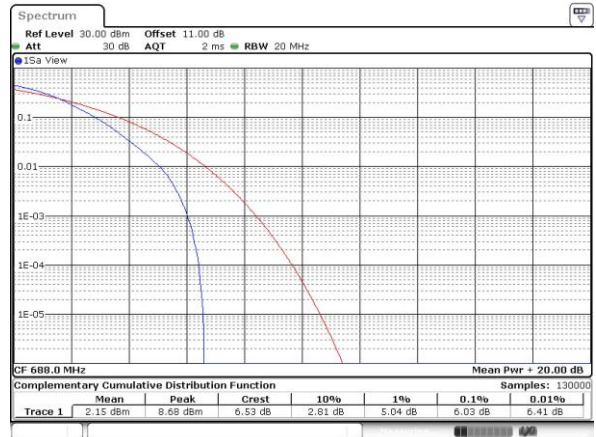
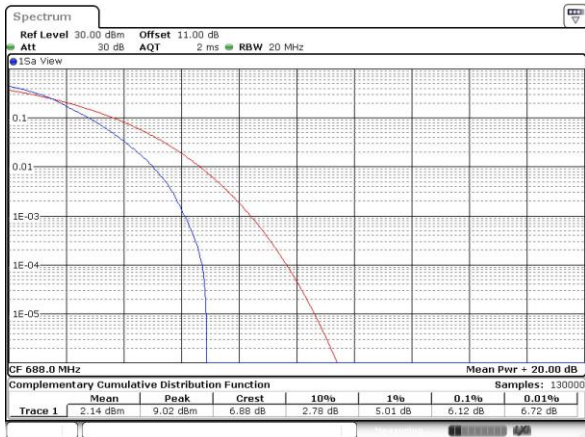


Date: 13 JUN 2023 11:34:24

Date: 13 JUN 2023 11:35:59

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 13 JUN 2023 11:37:52

Date: 13 JUN 2023 11:38:12



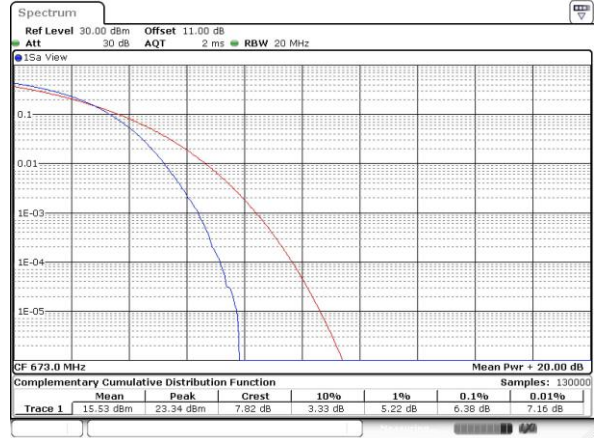
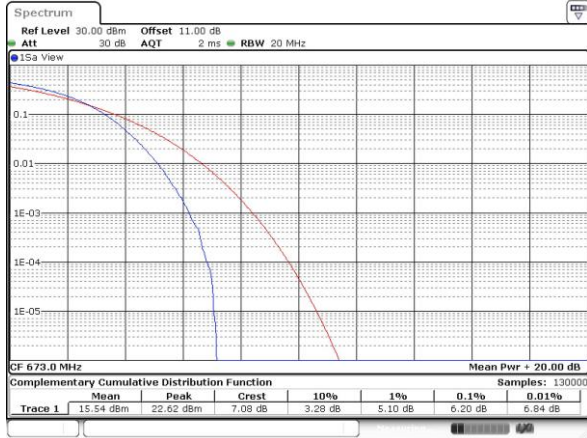
FR1 n71AA / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

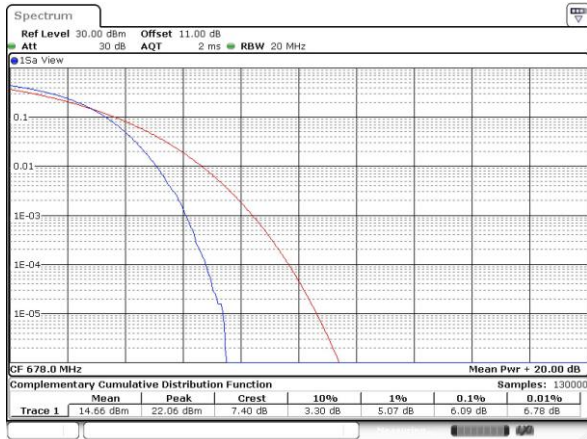


Date: 13 JUN 2023 11:31:16

Date: 13 JUN 2023 11:30:54

Middle Channel / Full RB

Middle Channel / Full RB

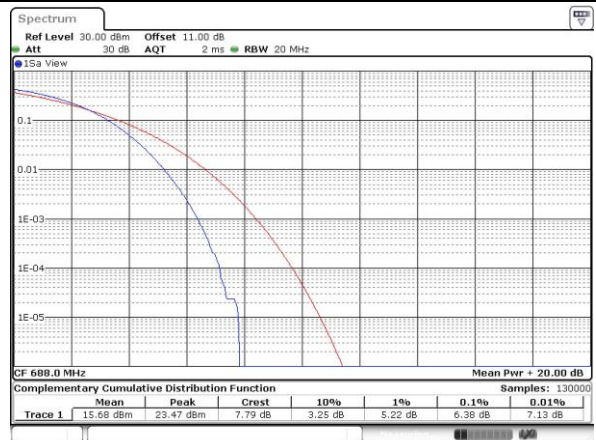


Date: 13 JUN 2023 11:35:02

Date: 13 JUN 2023 11:35:21

Highest Channel / Full RB

Highest Channel / Full RB



Date: 13 JUN 2023 11:37:24

Date: 13 JUN 2023 11:37:01



26dB Bandwidth

Mode	FR1 n71AA : 26dB BW(MHz) / CP- OFDM			
BW	5M+15M	5M+15M	5M+15M	5M+15M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.7	19.86	19.86	19.66

Mode	FR1 n71AA : 26dB BW(MHz) / CP- OFDM			
BW	10M+15M	10M+15M	10M+15M	10M+15M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	26.02	25.97	25.97	25.92

Mode	FR1 n71AA : 26dB BW(MHz) / CP- OFDM			
BW	15M+10M	15M+10M	15M+10M	15M+10M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	26.07	26.07	26.07	26.07

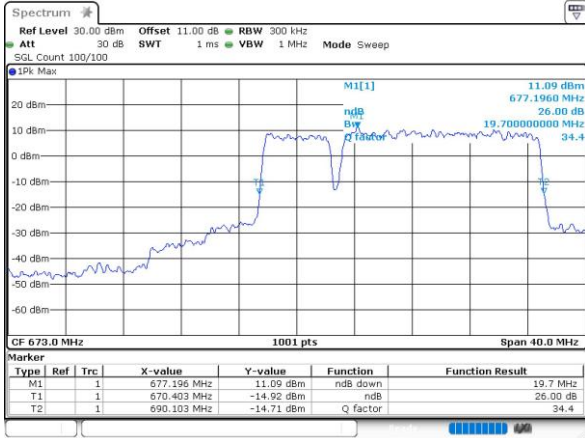
Mode	FR1 n71AA : 26dB BW(MHz) / CP-S OFDM			
BW	20M+5M	20M+5M	20M+5M	20M+5M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	26.22	26.12	26.17	26.22



FR1 n71AA / 5M+15M / CP-OFDM

Middle Channel

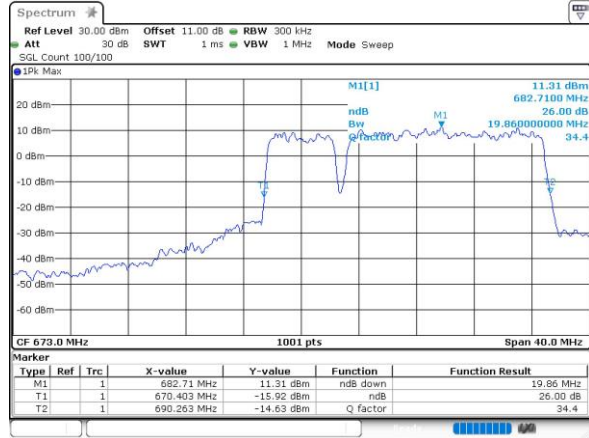
QPSK



Date: 13 JUN 2023 11:24:00

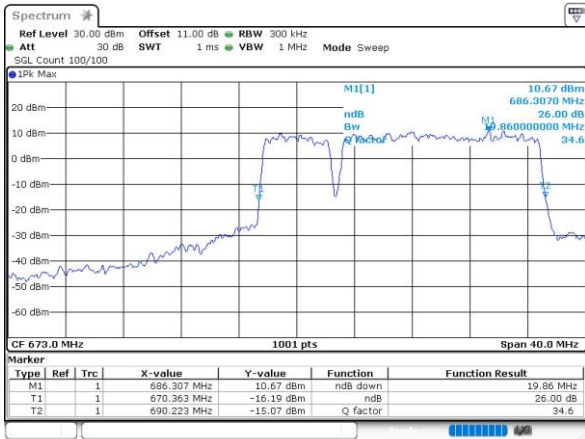
Middle Channel

16QAM



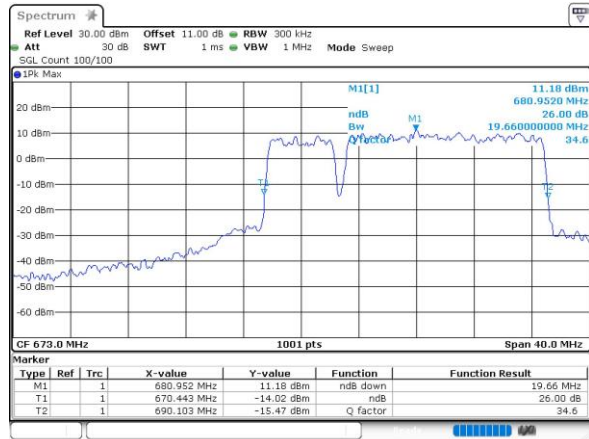
Date: 13 JUN 2023 11:24:27

64QAM



Date: 13 JUN 2023 11:25:10

256QAM



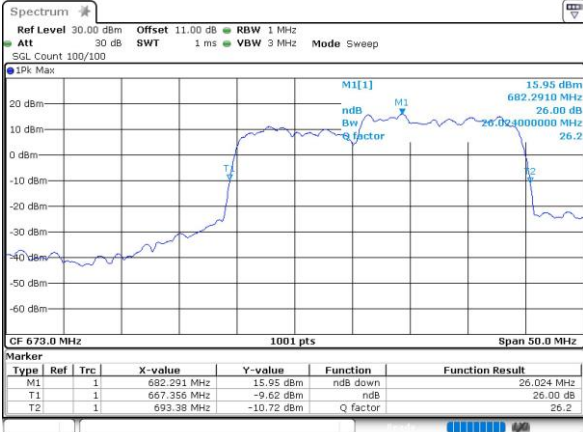
Date: 13 JUN 2023 11:26:37



FR1 n71AA / 10M+15M / CP-OFDM

Middle Channel

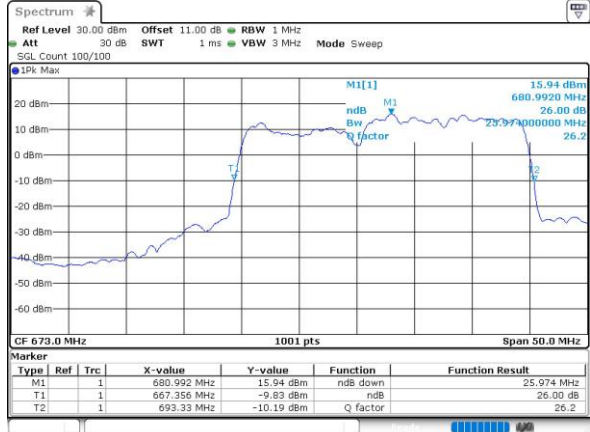
QPSK



Date: 13 JUN 2023 11:20:16

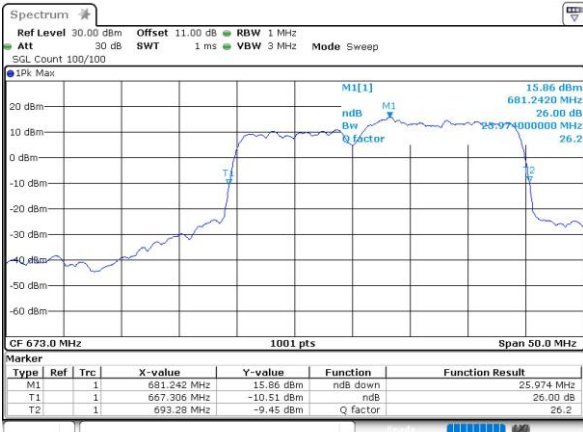
Middle Channel

16QAM



Date: 13 JUN 2023 11:19:56

64QAM



Date: 13 JUN 2023 11:19:54

256QAM



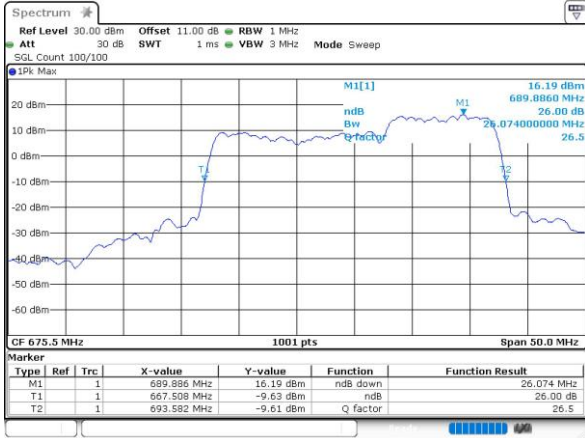
Date: 13 JUN 2023 11:19:12



FR1 n71AA / 15M+10M / CP-OFDM

Middle Channel

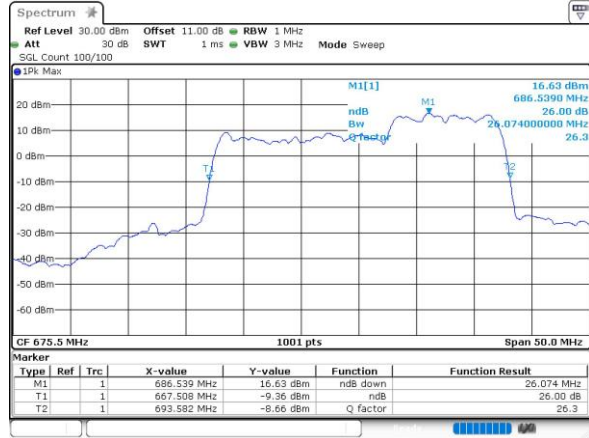
QPSK



Date: 13 JUN 2023 11:15:36

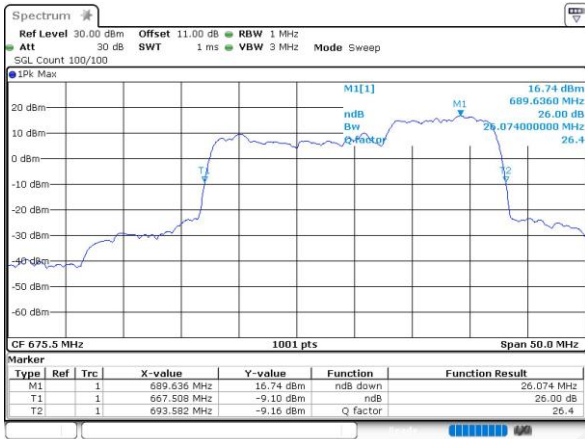
Middle Channel

16QAM



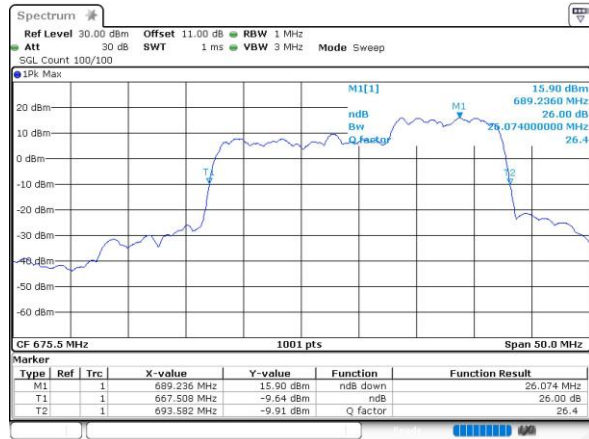
Date: 13 JUN 2023 11:16:00

64QAM



Date: 13 JUN 2023 11:16:20

256QAM



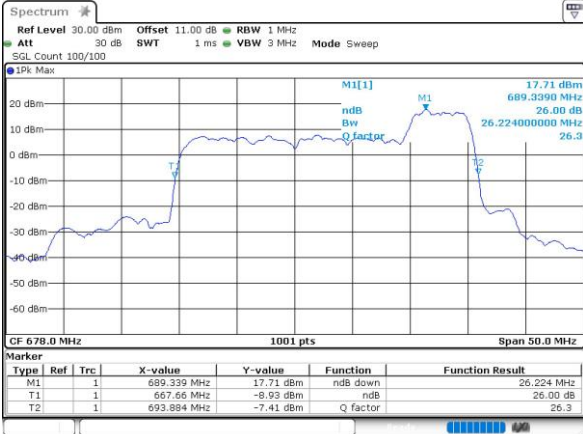
Date: 13 JUN 2023 11:16:48



FR1 n71AA / 20M+5M / CP-OFDM

Middle Channel

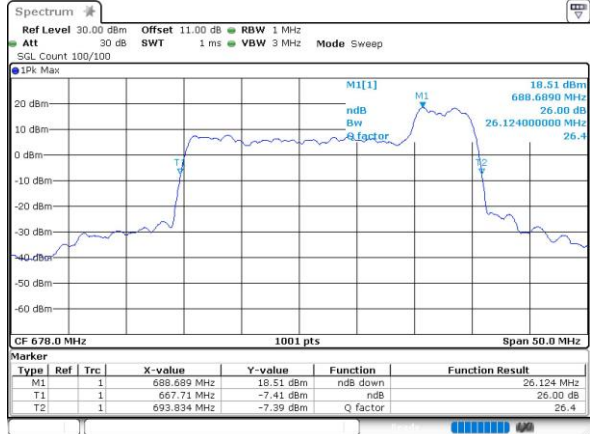
QPSK



Date: 13 JUN 2023 11:12:36

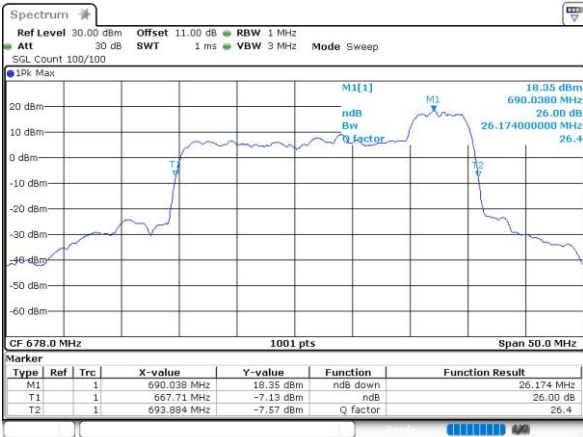
Middle Channel

16QAM



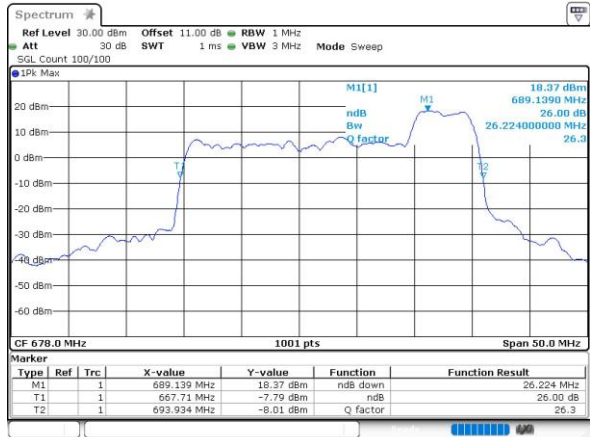
Date: 13 JUN 2023 11:12:10

64QAM



Date: 13 JUN 2023 11:11:45

256QAM



Date: 13 JUN 2023 11:11:23



Occupied Bandwidth

Mode	FR1 n71AA : 26dB BW(MHz) / CP- OFDM			
BW	5M+15M	5M+15M	5M+15M	5M+15M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.9	18.94	18.82	18.78

Mode	FR1 n71AA : 26dB BW(MHz) / CP- OFDM			
BW	10M+15M	10M+15M	10M+15M	10M+15M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	24.08	24.03	23.93	24.13

Mode	FR1 n71AA : 26dB BW(MHz) / CP- OFDM			
BW	15M+10M	15M+10M	15M+10M	15M+10M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	24.23	24.28	24.28	24.28

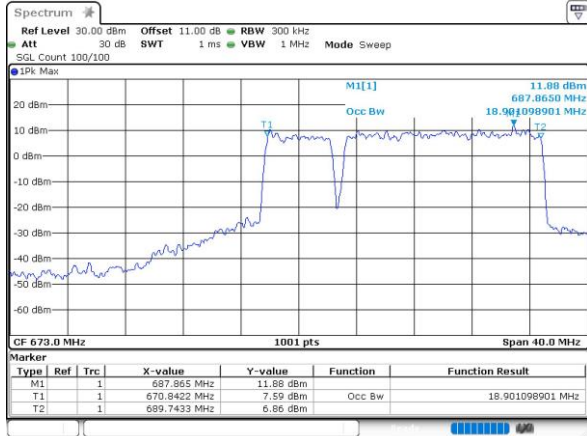
Mode	FR1 n71AA : 26dB BW(MHz) / CP-S OFDM			
BW	20M+5M	20M+5M	20M+5M	20M+5M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	24.58	24.63	24.78	24.23



FR1 n71AA / 5M+15M / CP-OFDM

Middle Channel

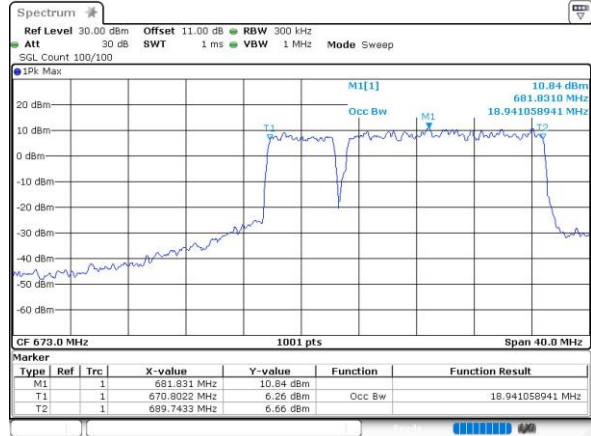
QPSK



Date: 13 JUN 2023 10:46:53

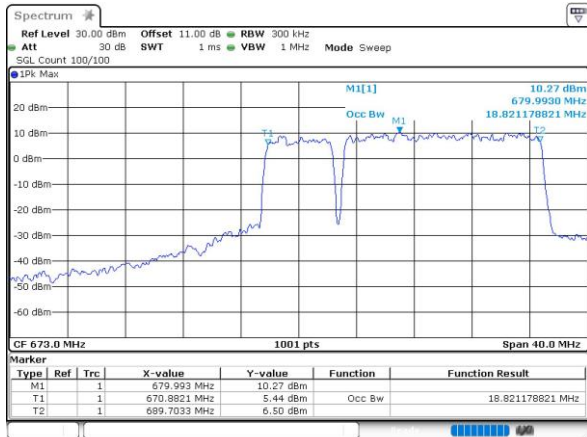
Middle Channel

16QAM



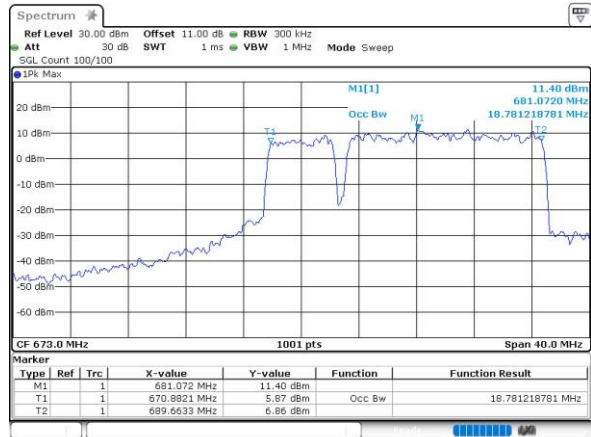
Date: 13 JUN 2023 10:47:20

64QAM



Date: 13 JUN 2023 10:47:47

256QAM



Date: 13 JUN 2023 10:48:12



FR1 n71AA / 10M+15M / CP-OFDM

Middle Channel

QPSK



Date: 13 JUN 2023 10:59:36

Middle Channel

16QAM



Date: 13 JUN 2023 10:59:59

64QAM



Date: 13 JUN 2023 11:00:19

256QAM



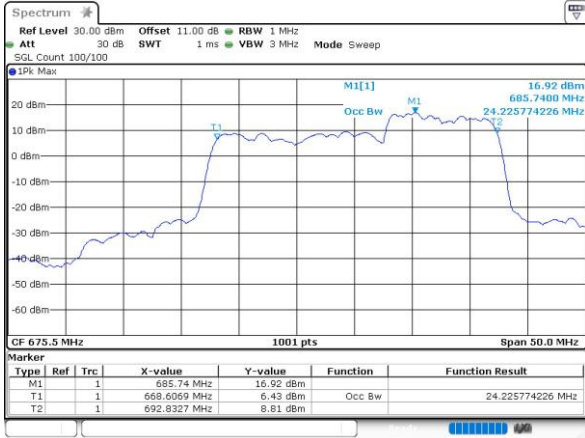
Date: 13 JUN 2023 11:00:40



FR1 n71AA / 15M+10M / CP-OFDM

Middle Channel

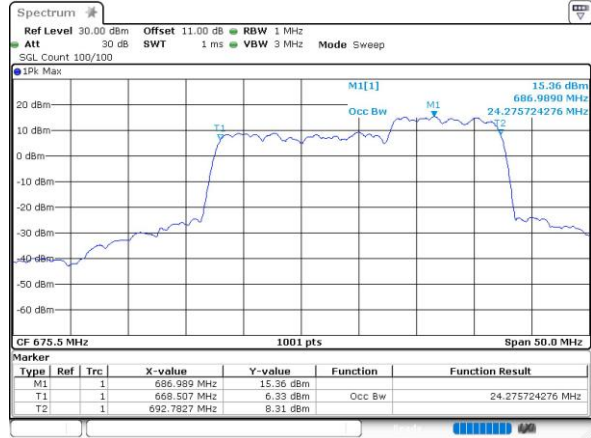
QPSK



Date: 13 JUN 2023 11:05:08

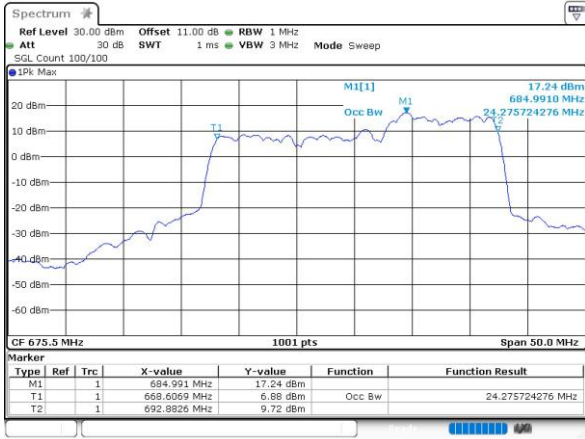
Middle Channel

16QAM



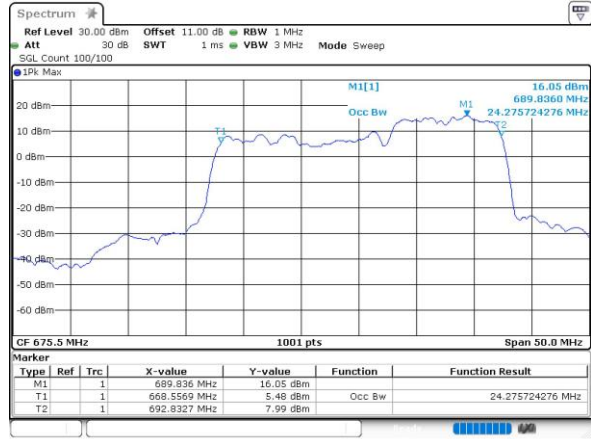
Date: 13 JUN 2023 11:04:38

64QAM



Date: 13 JUN 2023 11:04:06

256QAM



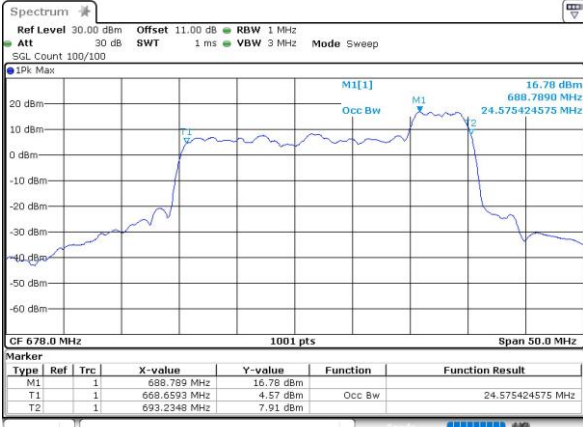
Date: 13 JUN 2023 11:05:38



FR1 n71AA / 20M+5M / CP-OFDM

Middle Channel

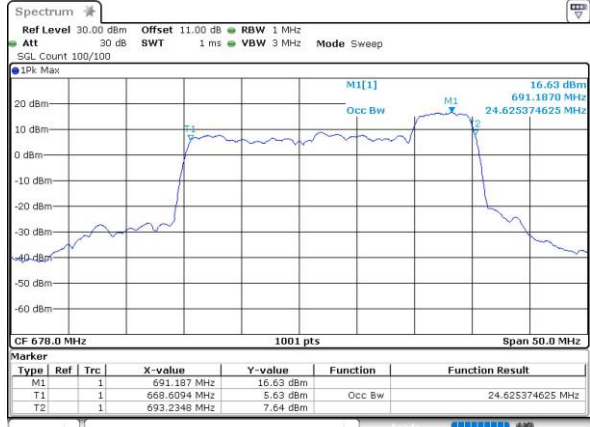
QPSK



Date: 13 JUN 2023 11:08:06

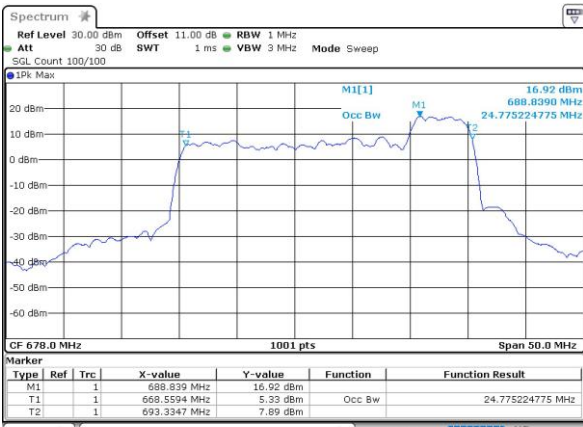
Middle Channel

16QAM



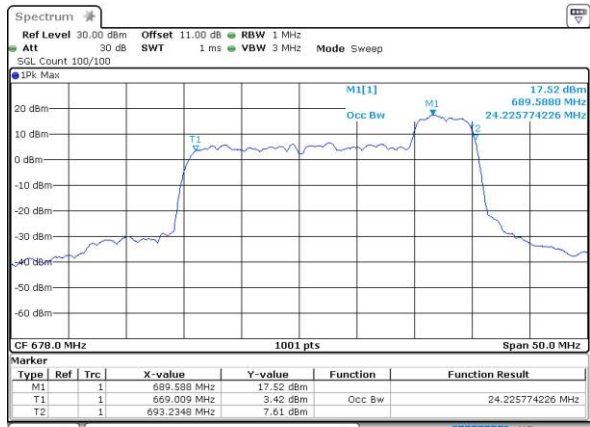
Date: 13 JUN 2023 11:08:38

64QAM



Date: 13 JUN 2023 11:09:00

256QAM



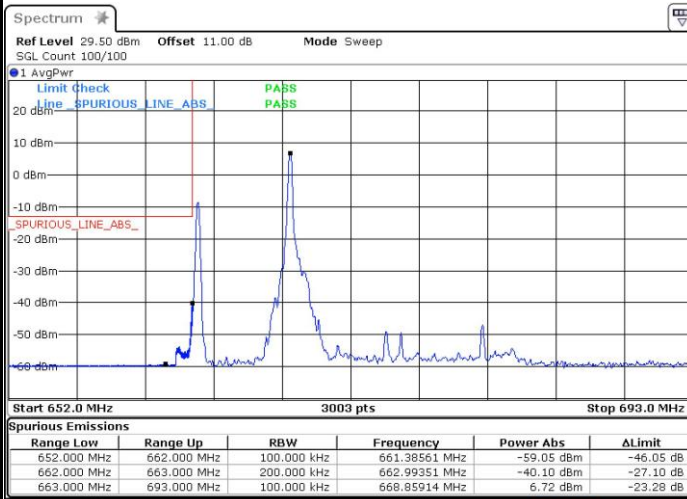
Date: 13 JUN 2023 11:09:23



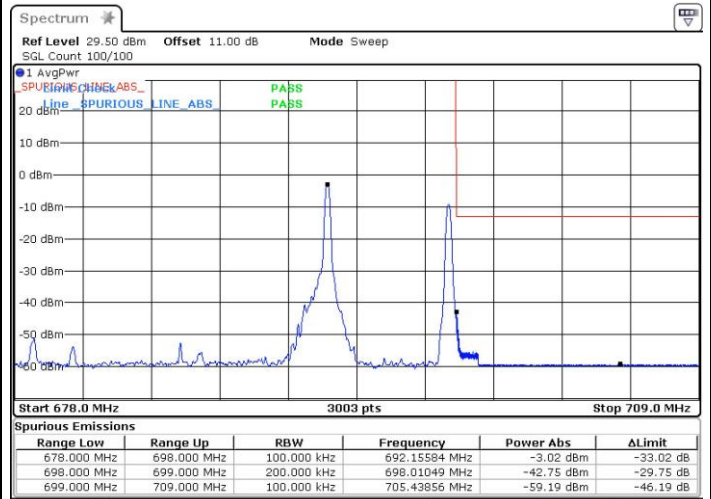
Conducted Band Edge

FR1 n71AA / 5MHz(NR)+15MHz(LTE) / DFT-S OFDM BPSK

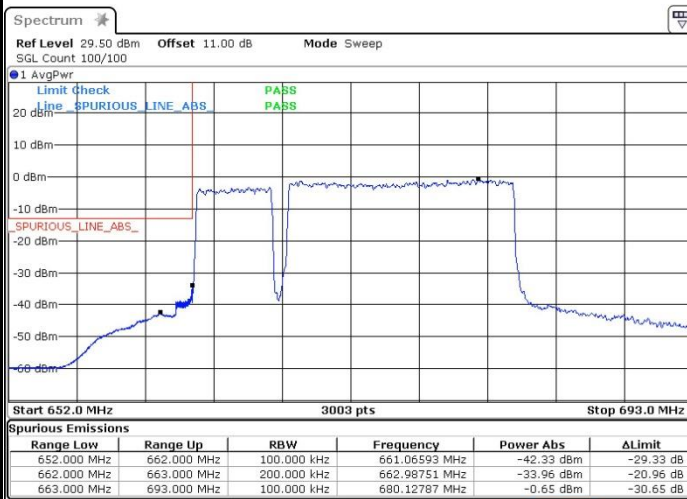
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



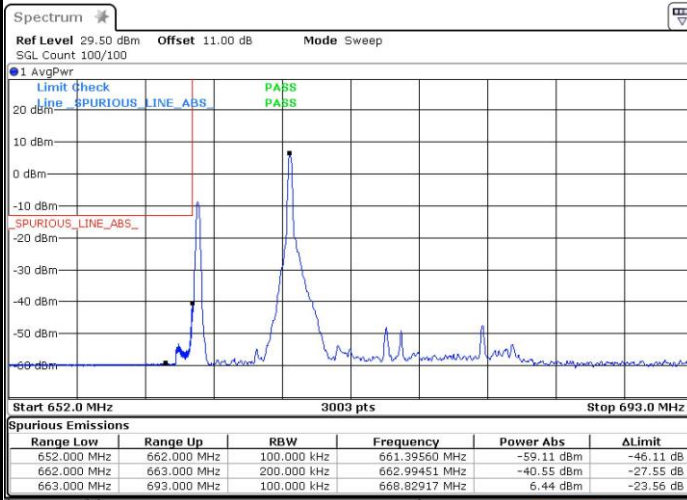
Highest Band Edge / Full RB





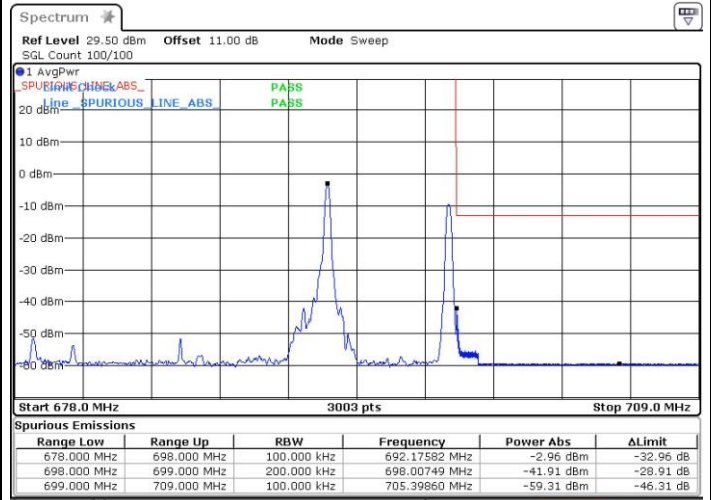
FR1 n71AA / 5MHz(NR)+15MHz(LTE) / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB



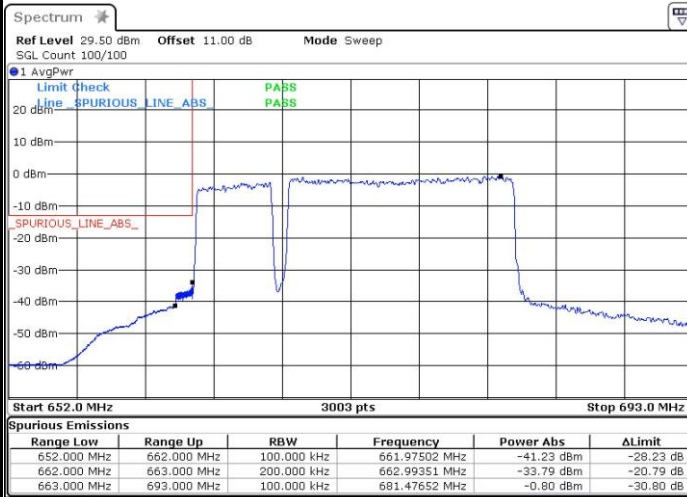
Date: 13 JUN 2023 09:39:32

Highest Band Edge / 1 RB



Date: 13 JUN 2023 09:44:01

Lowest Band Edge / Full RB



Date: 13 JUN 2023 09:37:56

Highest Band Edge / Full RB

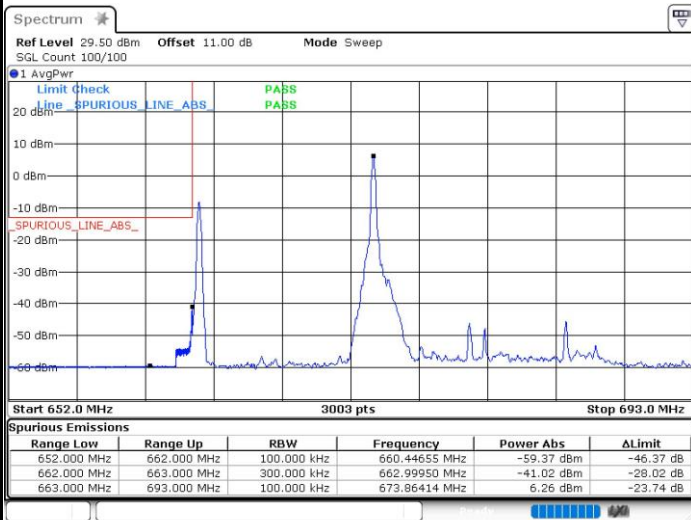


Date: 13 JUN 2023 09:46:18



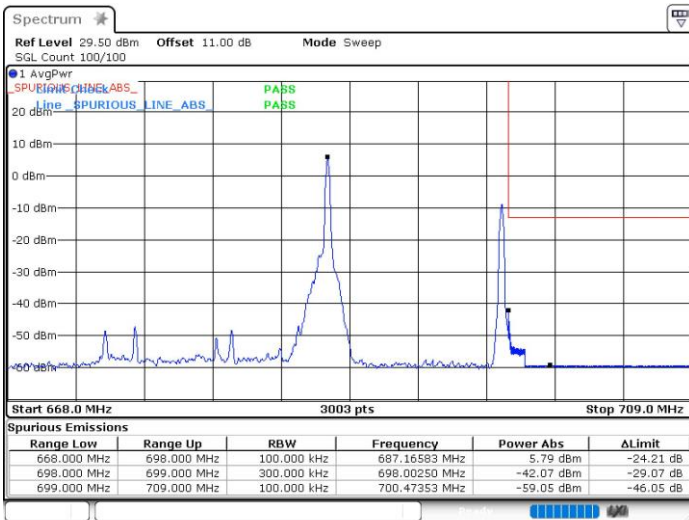
FR1 n71AA / 10MHz(NR)+15MHz(LTE) / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB



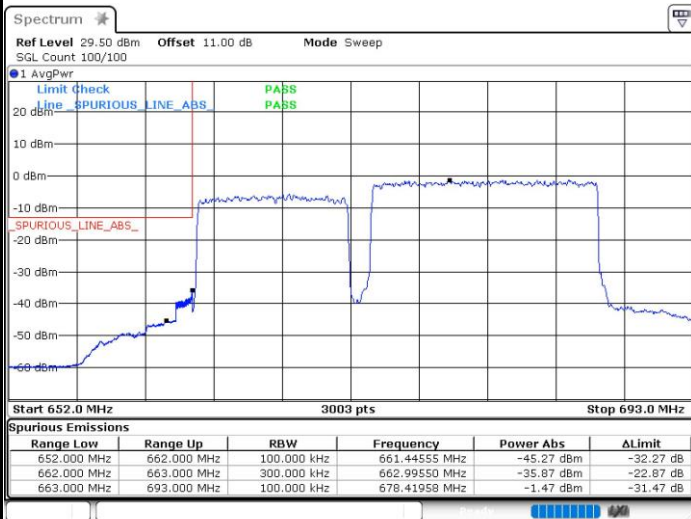
Date: 13 JUN 2023 09:55:08

Highest Band Edge / 1 RB



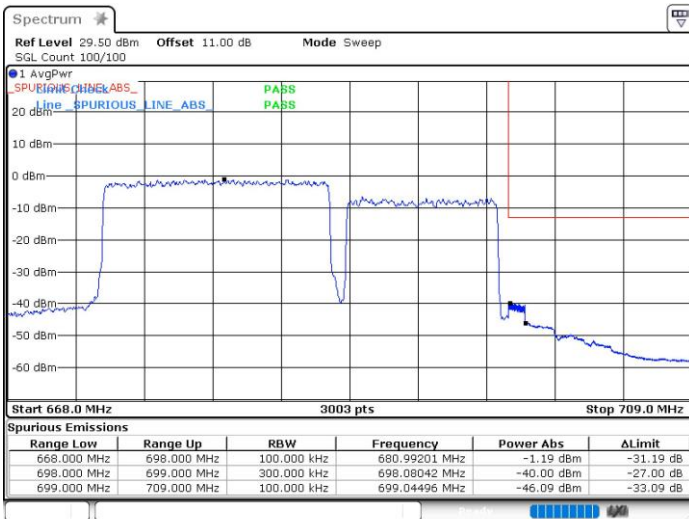
Date: 13 JUN 2023 09:58:30

Lowest Band Edge / Full RB



Date: 13 JUN 2023 09:51:15

Highest Band Edge / Full RB



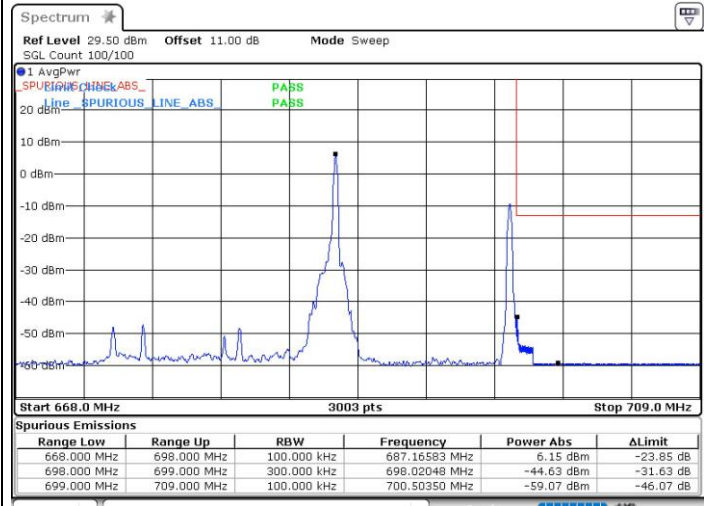
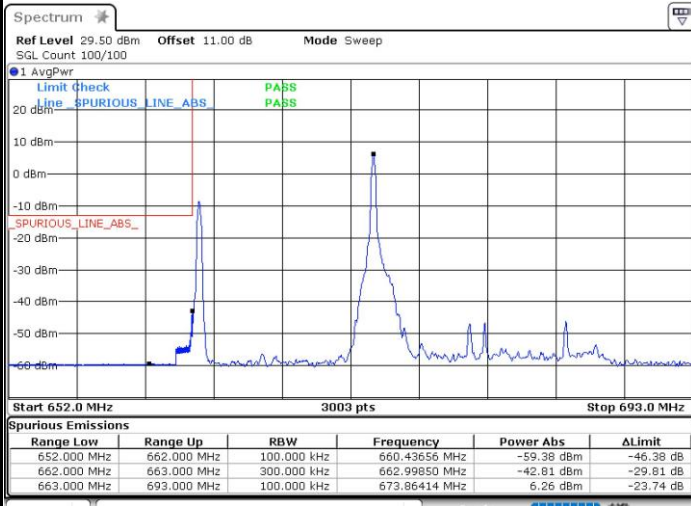
Date: 13 JUN 2023 10:01:45



FR1 n71AA / 10MHz(NR)+15MHz(LTE) / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

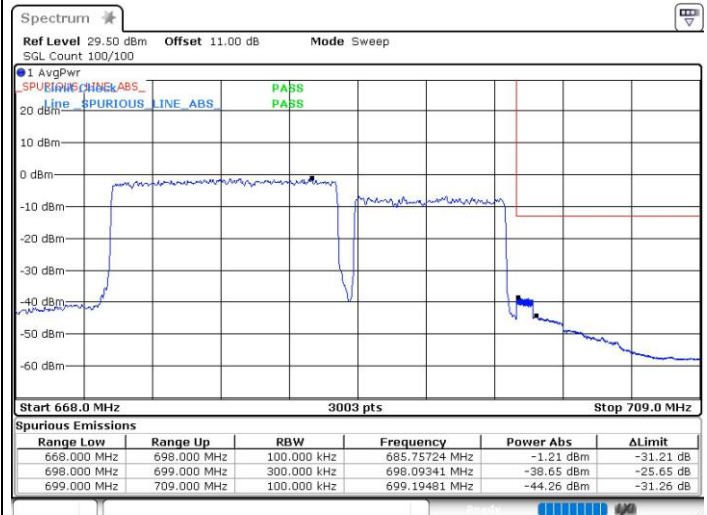
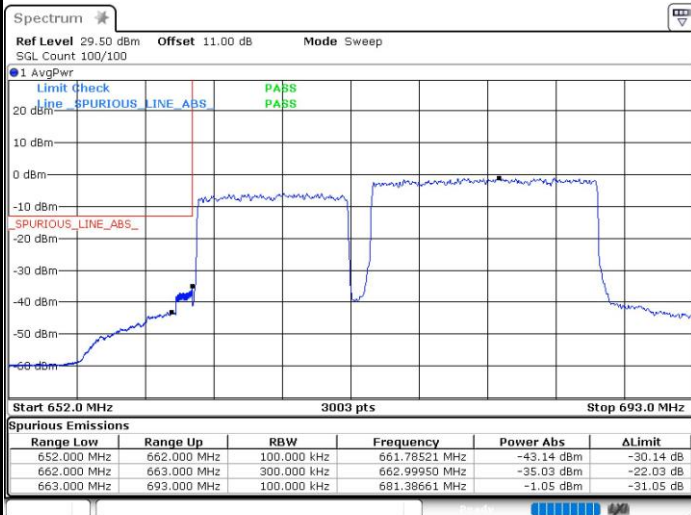


Date: 13 JUN 2023 09:54:20

Date: 13 JUN 2023 09:59:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



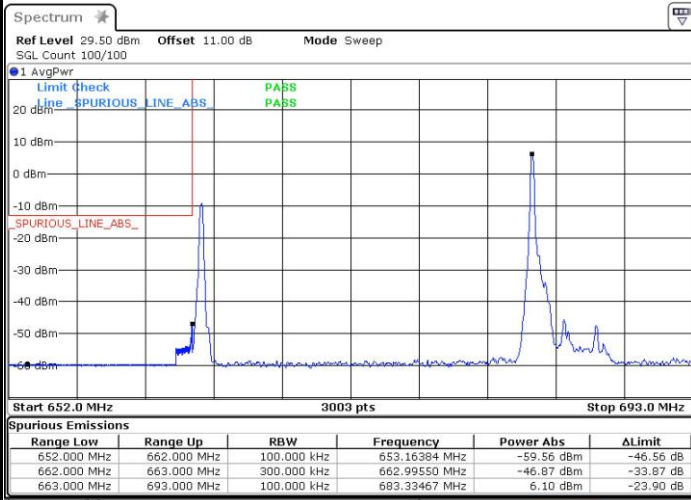
Date: 13 JUN 2023 09:52:45

Date: 13 JUN 2023 10:01:05



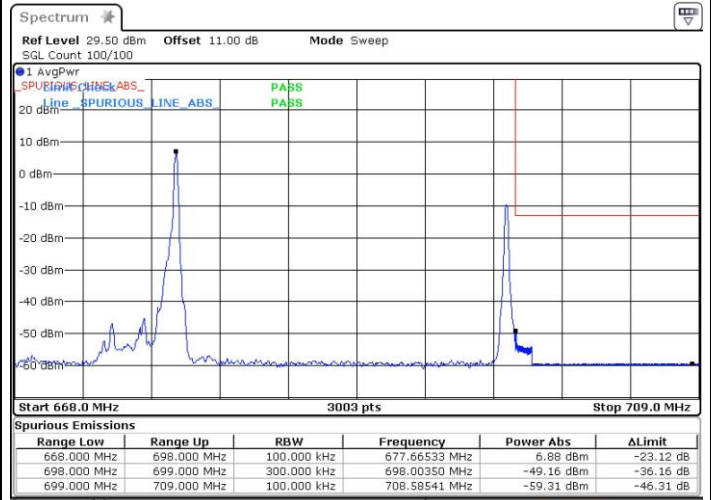
FR1 n71AA / 20MHz(NR)+5MHz(LTE) / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB



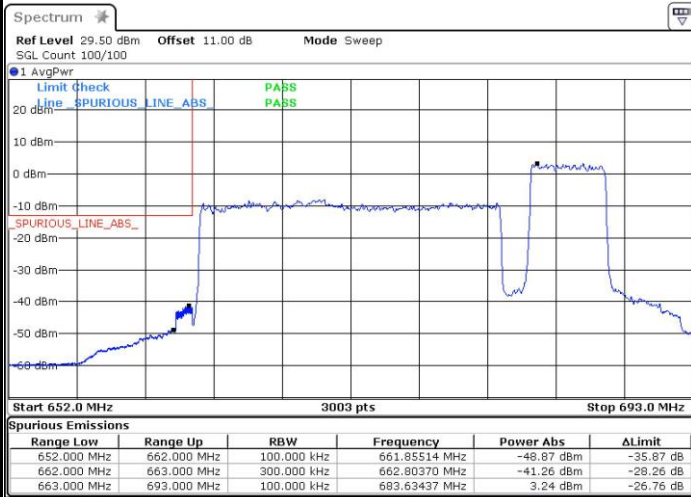
Date: 13 JUN 2023 10:11:51

Highest Band Edge / 1 RB



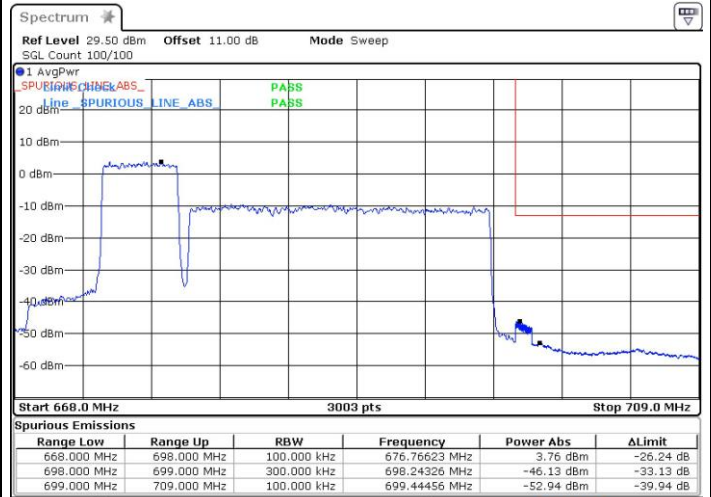
Date: 13 JUN 2023 10:08:36

Lowest Band Edge / Full RB



Date: 13 JUN 2023 10:15:36

Highest Band Edge / Full RB

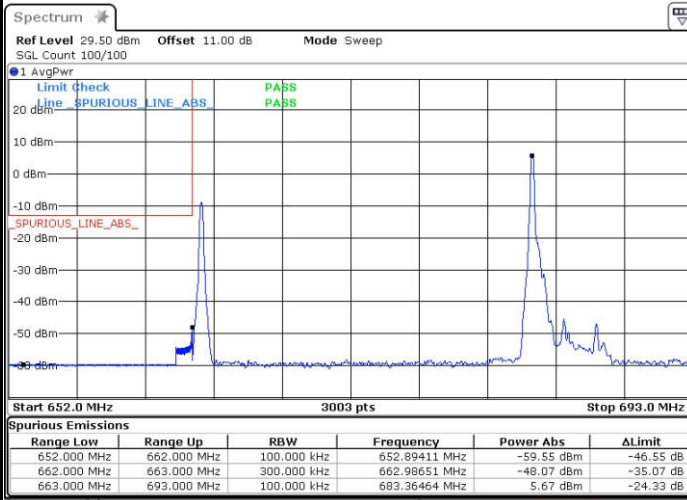


Date: 13 JUN 2023 10:05:31



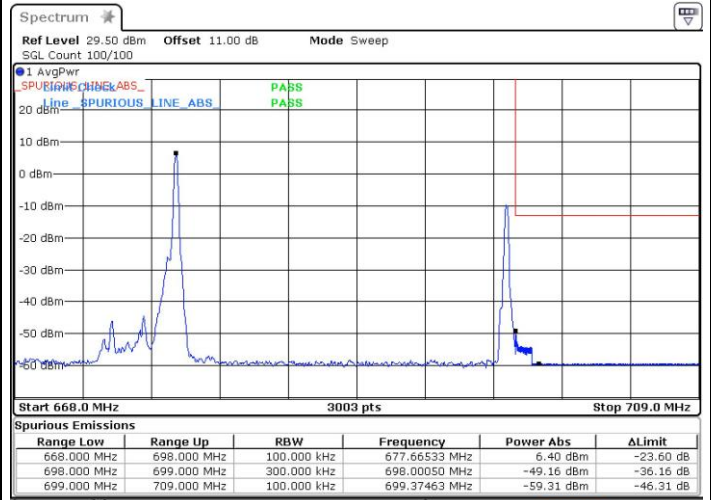
FR1 n71AA / 20MHz(NR)+5MHz(LTE) / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB



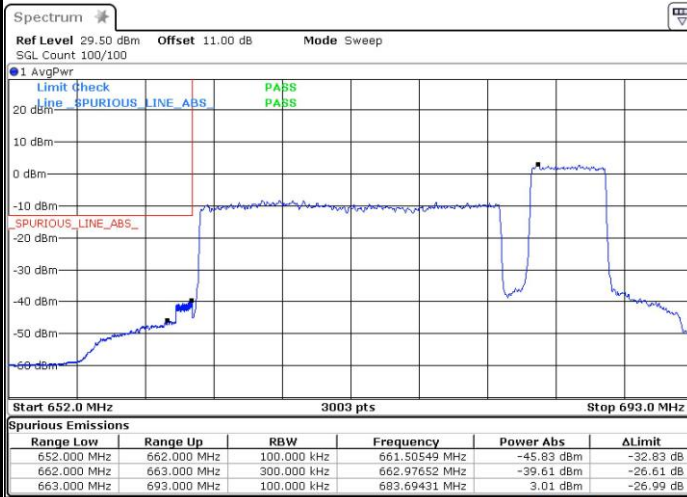
Date: 13 JUN 2023 10:12:51

Highest Band Edge / 1 RB



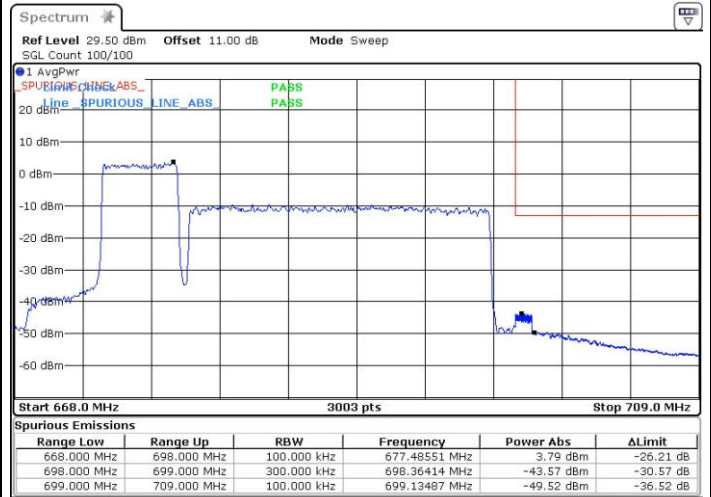
Date: 13 JUN 2023 10:07:50

Lowest Band Edge / Full RB



Date: 13 JUN 2023 10:14:25

Highest Band Edge / Full RB



Date: 13 JUN 2023 10:06:33

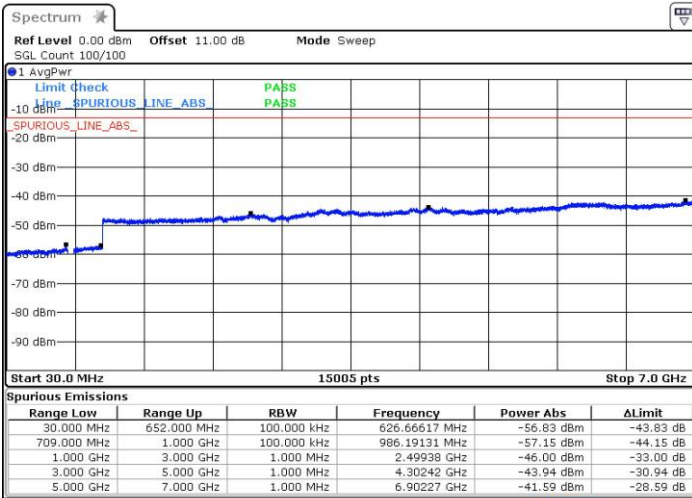


Conducted Spurious Emission

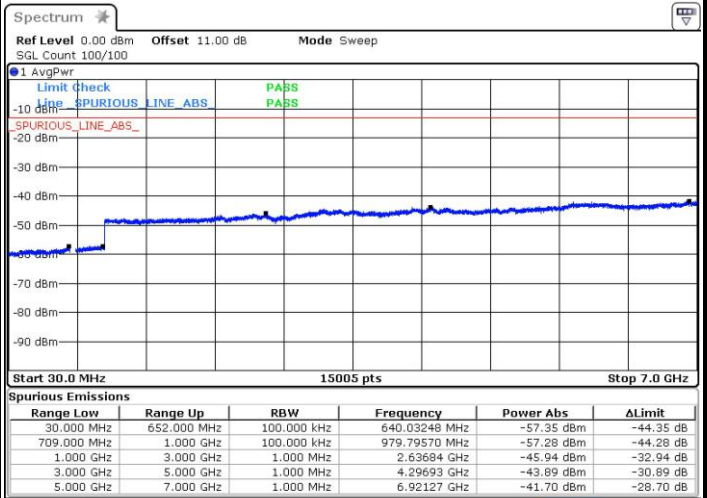
FR1 n71AA / 5MHz+15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB



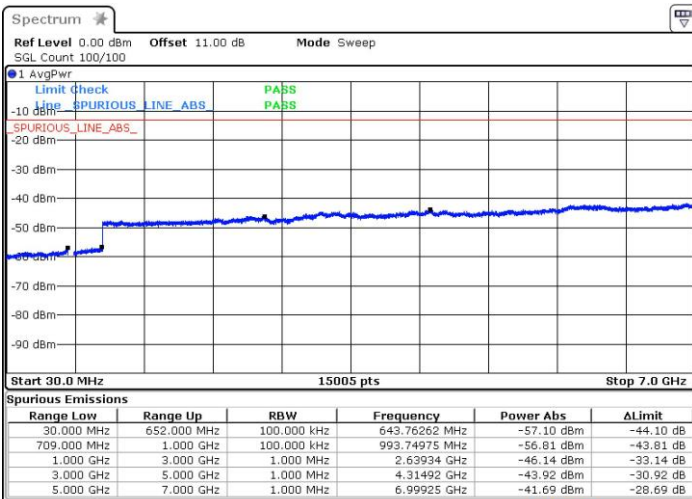
Date: 13.JUN.2023 10:33:15



Date: 13.JUN.2023 10:36:03

Highest Channel / 1RB

NA



Date: 13.JUN.2023 10:39:49

NA



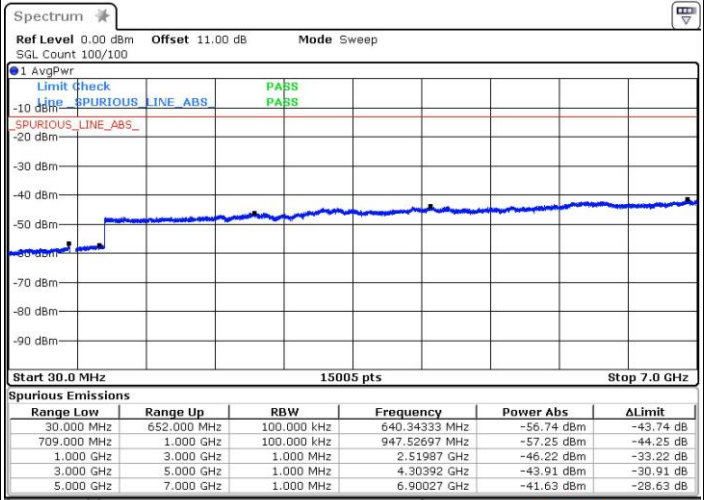
FR1 n71AA / 5MHz+15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB



Date: 13.JUN.2023 10:33:41



Date: 13.JUN.2023 10:35:12

Highest Channel / 1RB

NA



Date: 13.JUN.2023 10:40:34

NA



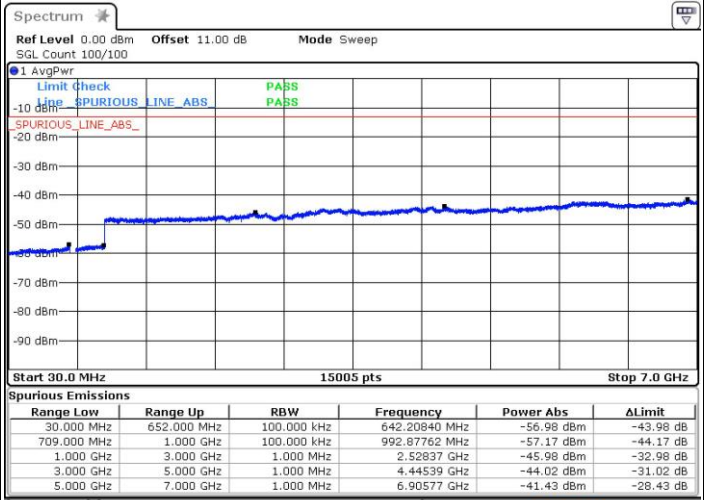
FR1 n71AA / 10MHz+15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB



Date: 13.JUN.2023 10:29:53



Date: 13.JUN.2023 10:27:57

Highest Channel / 1RB

NA



Date: 13.JUN.2023 10:25:36

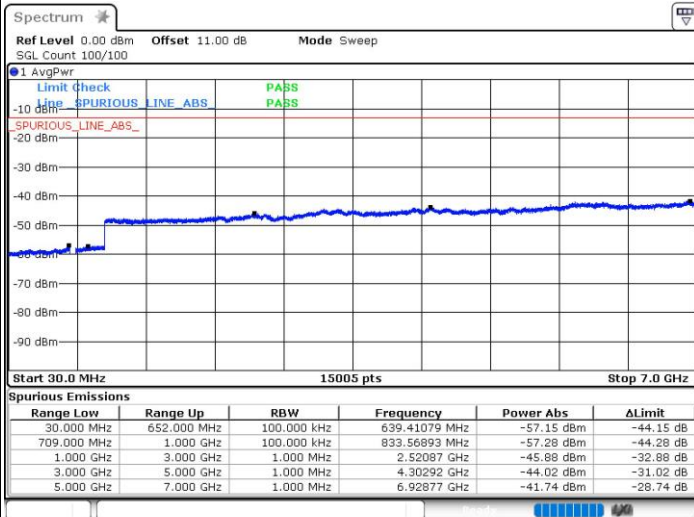
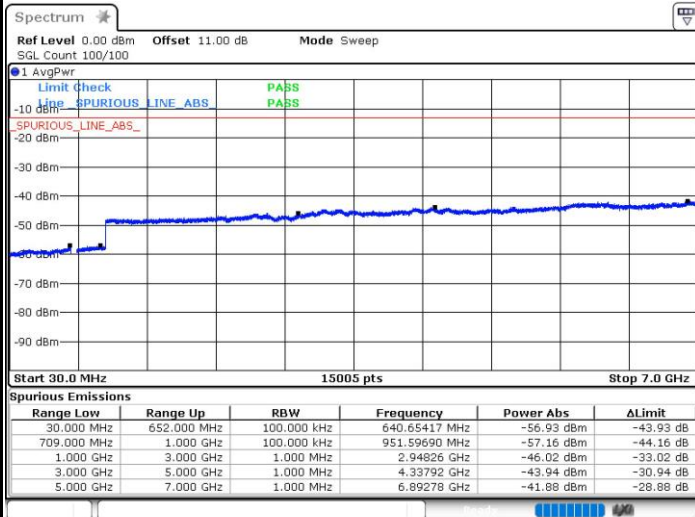
NA



FR1 n71AA / 10MHz+15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB



Date: 13.JUN.2023 10:29:29

Date: 13.JUN.2023 10:28:19

Highest Channel / 1RB

NA



Date: 13.JUN.2023 10:25:10

NA



FR1 n71AA / 20MHz+5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB



Date: 13.JUN.2023 10:17:45



Date: 13.JUN.2023 10:19:54

Highest Channel / 1RB

NA



Date: 13.JUN.2023 10:21:28

NA



FR1 n71AA / 20MHz+5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB



Date: 13.JUN.2023 10:18:16



Date: 13.JUN.2023 10:19:32

Highest Channel / 1RB

NA



Date: 13.JUN.2023 10:22:10

NA



Frequency Stability

Test Conditions		NR n71AA (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz+15MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0047	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0059	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0082	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0048	
20	Battery End Point	0.0057	

Note:

1. Normal Voltage =54 V. ; Battery End Point (BEP) =57 V. ; Maximum Voltage =48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

SA n25 / NR 45MHz / QPSK / ANT0(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3726	-56.55	-13	-43.55	-68.81	2.64	14.90	H
	5586	-35.35	-13	-22.35	-47.21	2.94	14.80	H
	7449	-42.30	-13	-29.30	-52.07	3.39	13.16	H
	3726	-57.29	-13	-44.29	-69.55	2.64	14.90	V
	5586	-43.82	-13	-30.82	-55.68	2.94	14.80	V
	7449	-43.78	-13	-30.78	-53.55	3.39	13.16	V

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

EN-DC_12A_n25A / LTE 10MHz + NR 45MHz / QPSK / ANT4(LTE) & ANT1(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3720	-50.46	-13	-37.46	-62.72	2.64	14.90	H
	5580	-41.02	-13	-28.02	-52.88	2.94	14.80	H
	7440	-38.22	-13	-25.22	-47.99	3.39	13.16	H
	3720	-51.88	-13	-38.88	-64.14	2.64	14.90	V
	5580	-48.74	-13	-35.74	-60.60	2.94	14.80	V
	7440	-48.13	-13	-35.13	-57.90	3.39	13.16	V

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

SA n26 / NR 20MHz / QPSK / ANT4(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1655	-32.21	-13	-19.21	-39.18	1.58	10.70	H
	2482	-53.65	-13	-40.65	-61.90	2.102	12.50	H
	3310	-61.12	-13	-48.12	-70.01	2.856	13.90	H
	1655	-37.29	-13	-24.29	-44.26	1.58	10.70	V
	2482	-54.34	-13	-41.34	-62.59	2.10	12.50	V
	3310	-61.34	-13	-48.34	-70.23	2.86	13.90	V

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



ENDC_2A_n5A / LTE 10MHz + NR 25MHz / QPSK / ANT0(LTE) & ANT5(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1648	-50.06	-13	-37.06	-57.03	1.58	10.70	H
	2472	-47.69	-13	-34.69	-55.94	2.102	12.50	H
	3304	-55.44	-13	-42.44	-64.33	2.856	13.90	H
	1648	-55.60	-13	-42.60	-62.57	1.58	10.70	V
	2472	-47.71	-13	-34.71	-55.96	2.10	12.50	V
	3304	-57.53	-13	-44.53	-66.42	2.86	13.90	V

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

SA n71 / NR 20MHz / QPSK / ANT4(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-68.17	-13	-55.17	-69.92	1.02	4.92	H
	2016	-62.84	-13	-49.84	-64.81	1.27	5.39	H
	2688	-60.64	-13	-47.64	-63.57	1.49	6.57	H
	1344	-67.40	-13	-54.40	-69.15	1.02	4.92	V
	2016	-62.01	-13	-49.01	-63.98	1.27	5.39	V
	2688	-59.94	-13	-46.94	-62.87	1.49	6.57	V

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

EN-DC_48A_n71A / LTE 10MHz + NR 20MHz / QPSK / ANT1(LTE) & ANT4(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-64.34	-13	-51.34	-66.09	1.02	4.92	H
	2016	-61.97	-13	-48.97	-63.94	1.27	5.39	H
	2688	-55.41	-13	-42.41	-58.34	1.49	6.57	H
	1344	-63.82	-13	-50.82	-65.57	1.02	4.92	V
	2014.77	-61.56	-13	-48.56	-63.53	1.27	5.39	V
	2688	-54.45	-13	-41.45	-57.38	1.49	6.57	V

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

EN-DC_71A_n71A / LTE 10MHz + NR 20MHz / QPSK / ANT4(LTE) & ANT5(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-49.80	-13	-36.80	-51.55	1.02	4.92	H
	2016	-54.05	-13	-41.05	-56.02	1.27	5.39	H
	2688	-54.66	-13	-41.66	-57.59	1.49	6.57	H
	3352	-55.20	-13	-42.20	-58.60	1.73	7.28	H
	1344	-48.16	-13	-35.16	-49.91	1.02	4.92	V
	2016	-52.34	-13	-39.34	-54.31	1.27	5.39	V
	2688	-58.42	-13	-45.42	-61.35	1.49	6.57	V
	3352	-51.52	-13	-38.52	-54.92	1.73	7.28	V

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