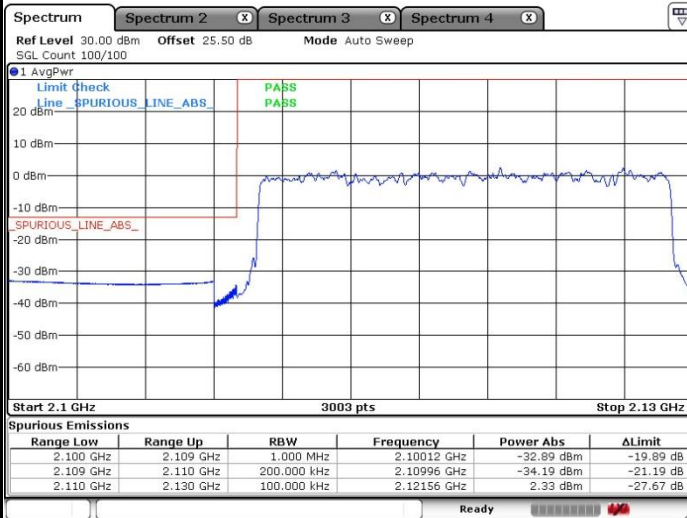




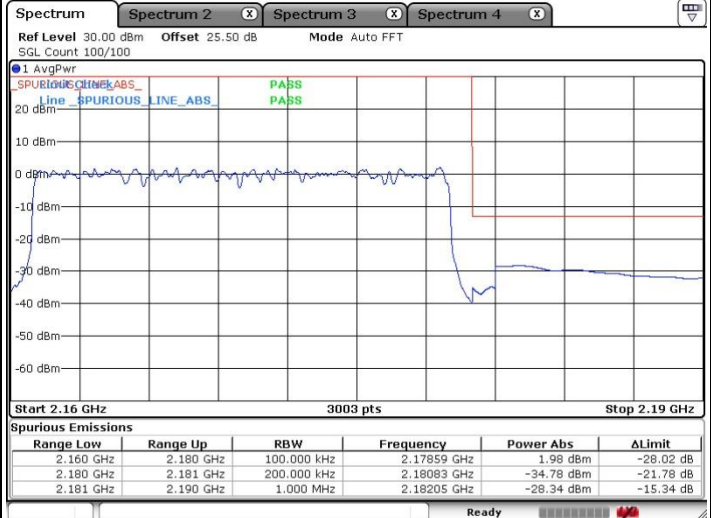
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 25 JUN 2021 03:22:26

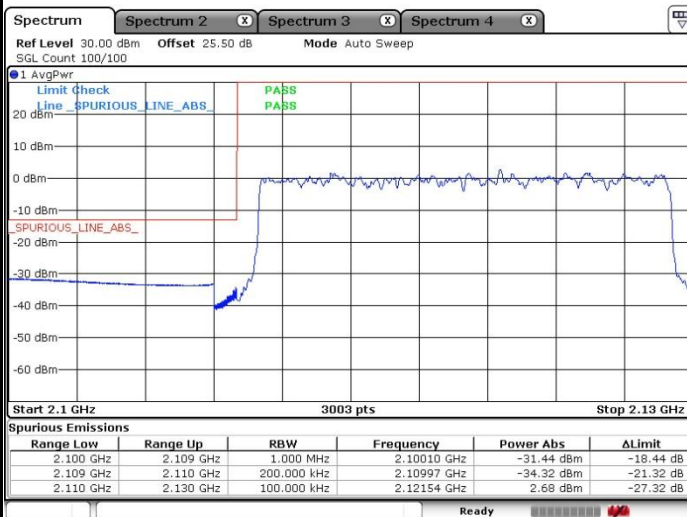
Highest Band Edge / Full RB



Date: 25 JUN 2021 01:36:34

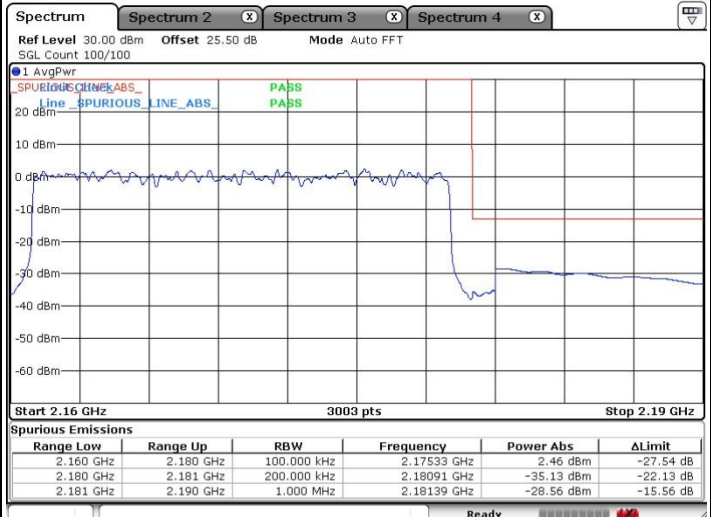
LTE Band 66 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 25 JUN 2021 03:21:25

Highest Band Edge / Full RB



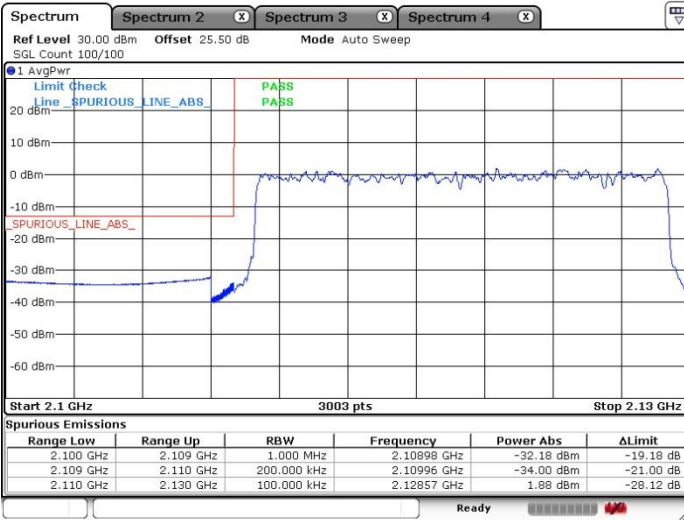
Date: 25 JUN 2021 01:37:52



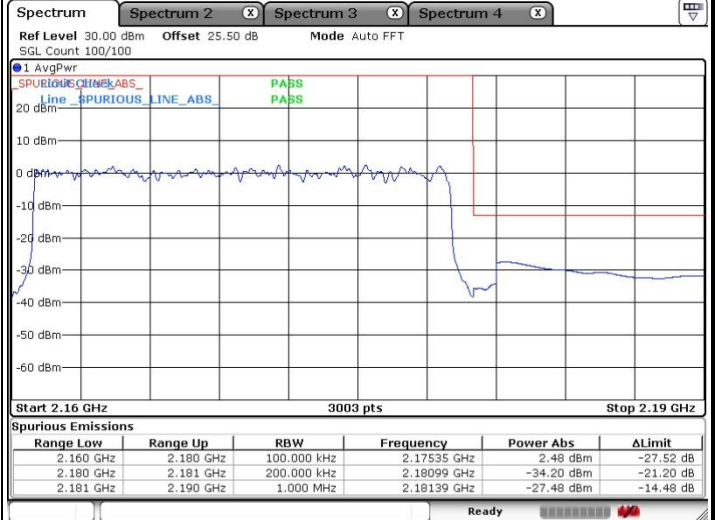
LTE Band 66 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



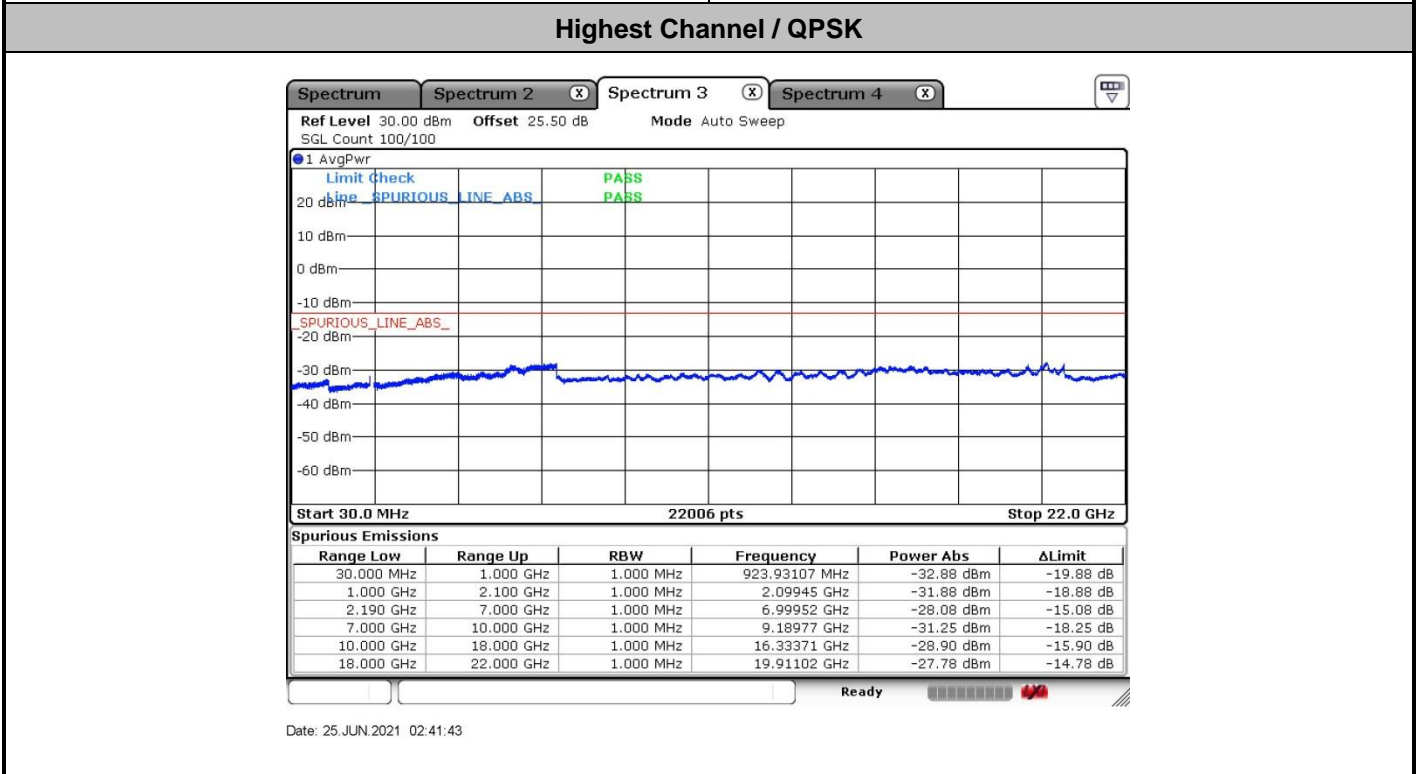
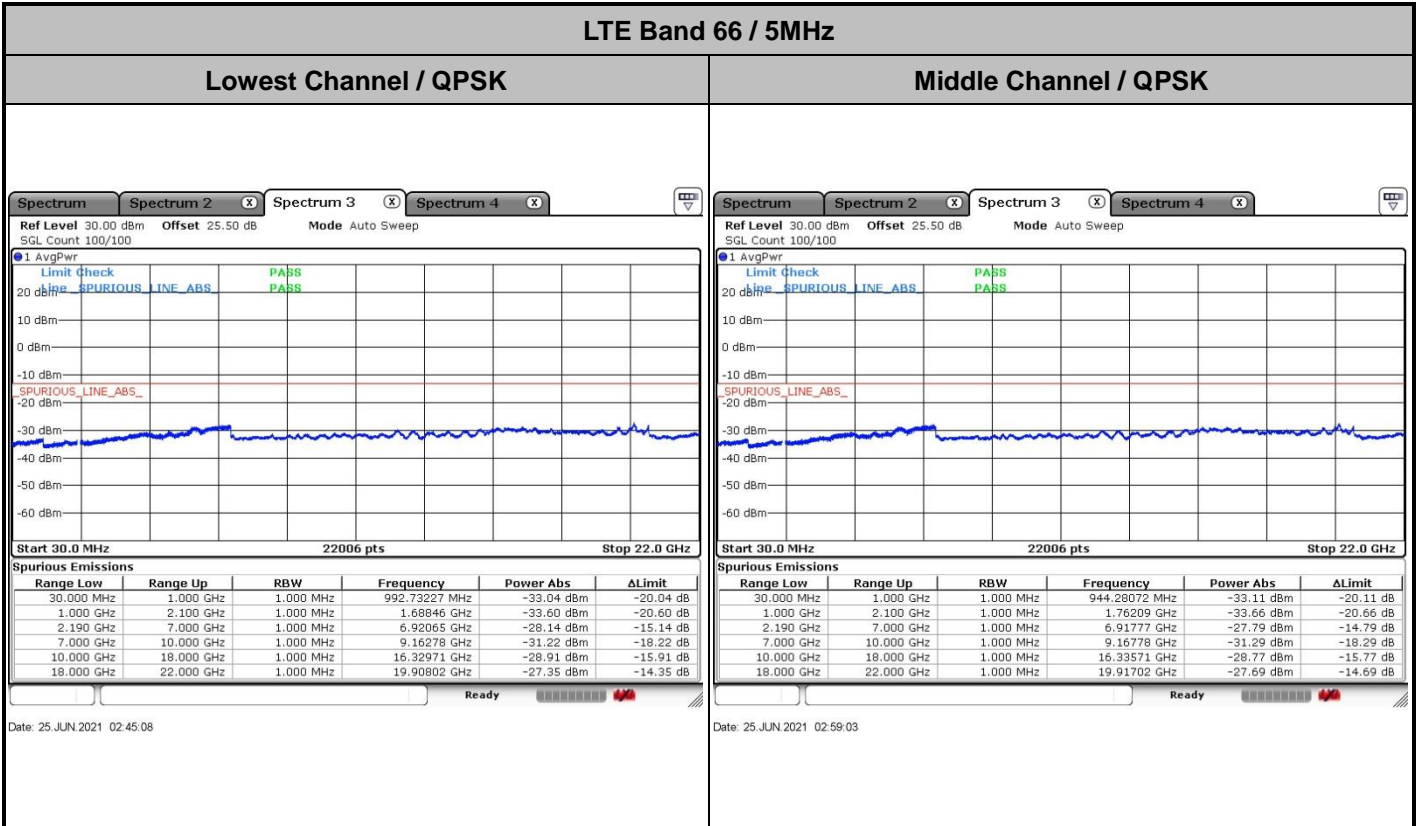
Date: 25 JUN 2021 03:20:03



Date: 25 JUN 2021 01:38:14



Conducted Spurious Emission

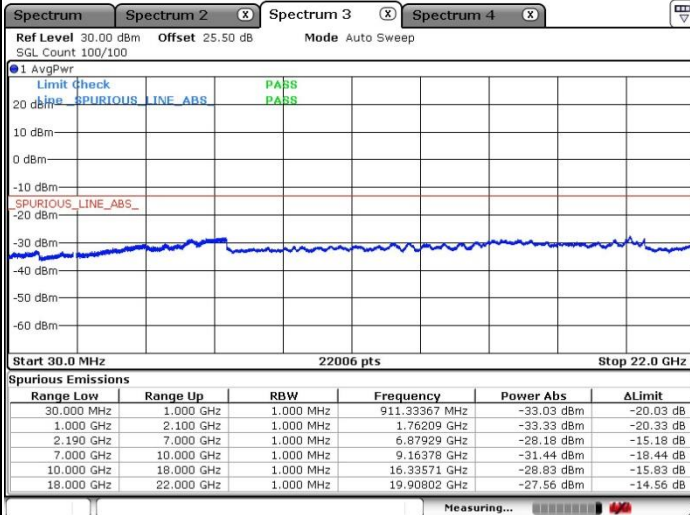




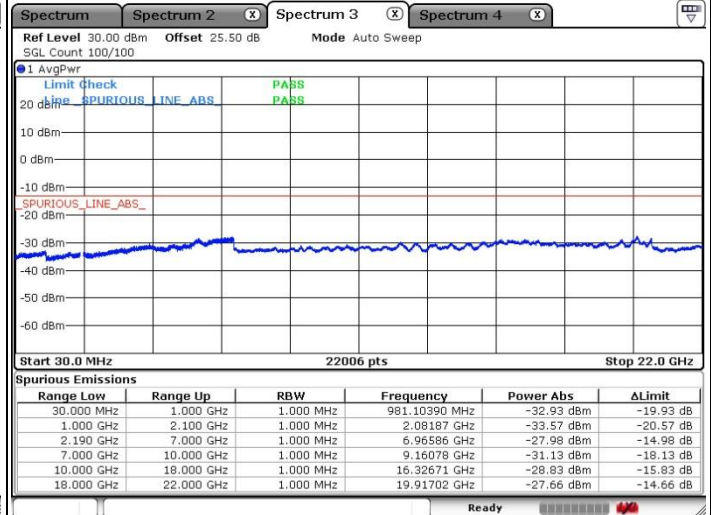
LTE Band 66 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

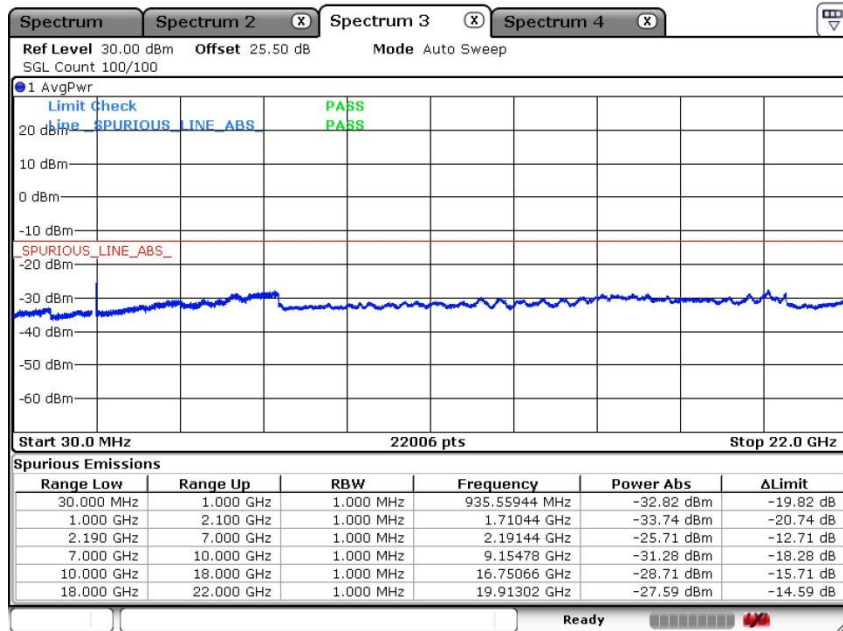


Date: 25 JUN 2021 02:03:53



Date: 25 JUN 2021 02:11:25

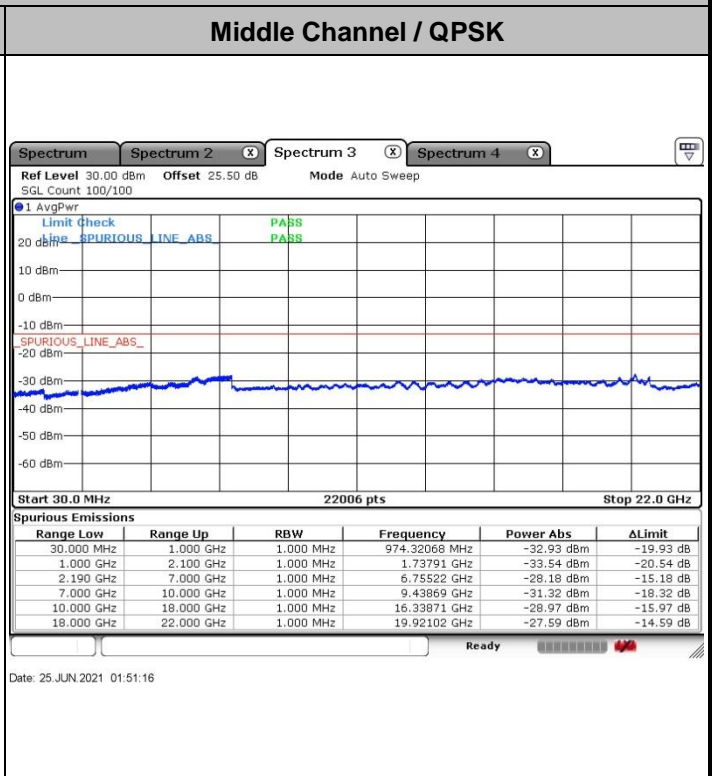
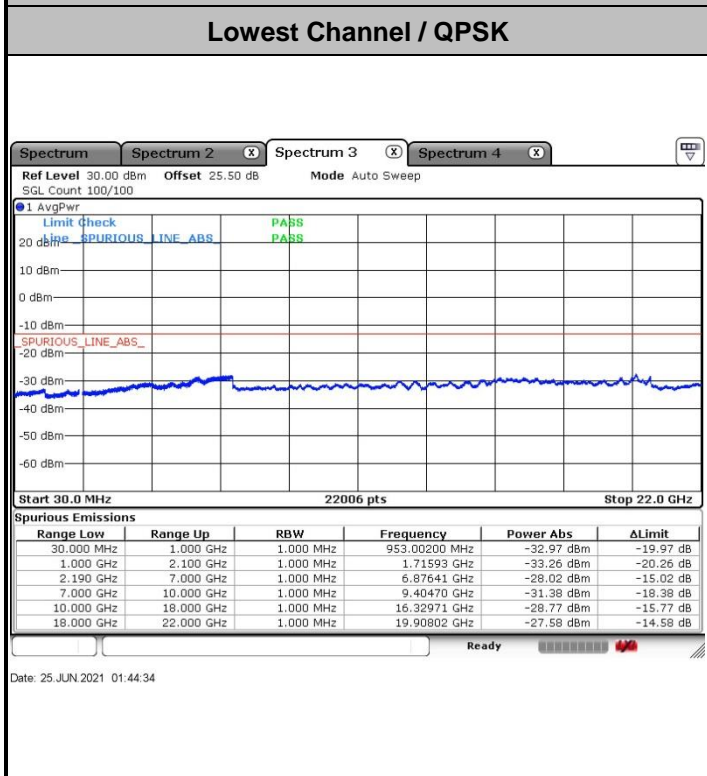
Highest Channel / QPSK



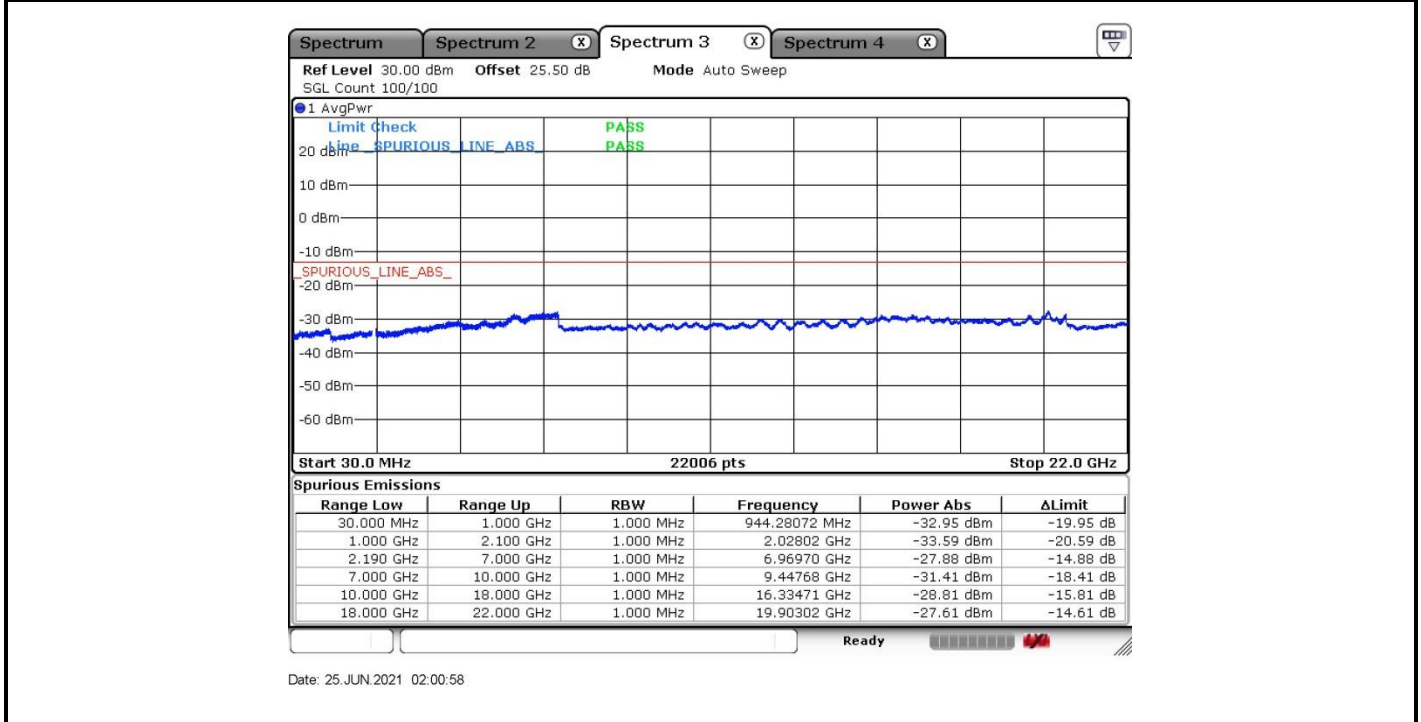
Date: 25 JUN 2021 02:14:33



LTE Band 66 / 15MHz



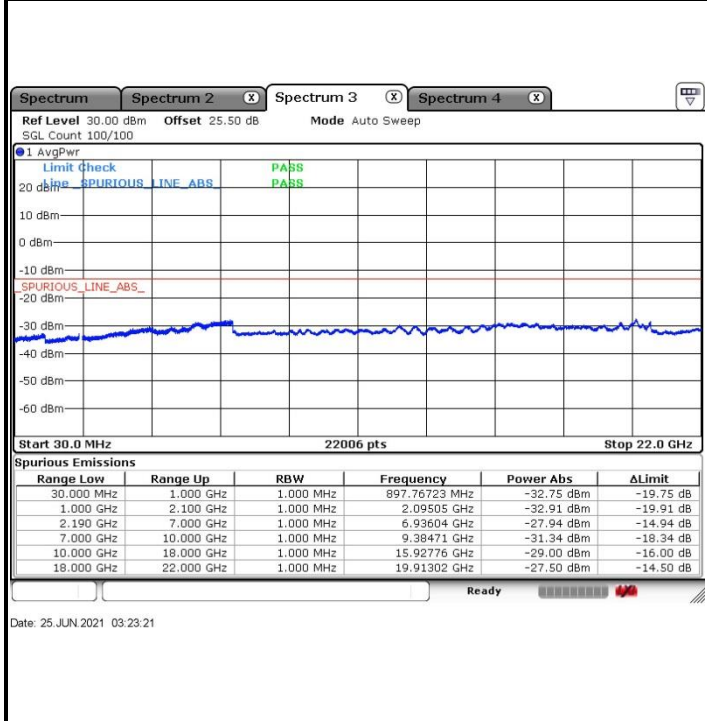
Highest Channel / QPSK





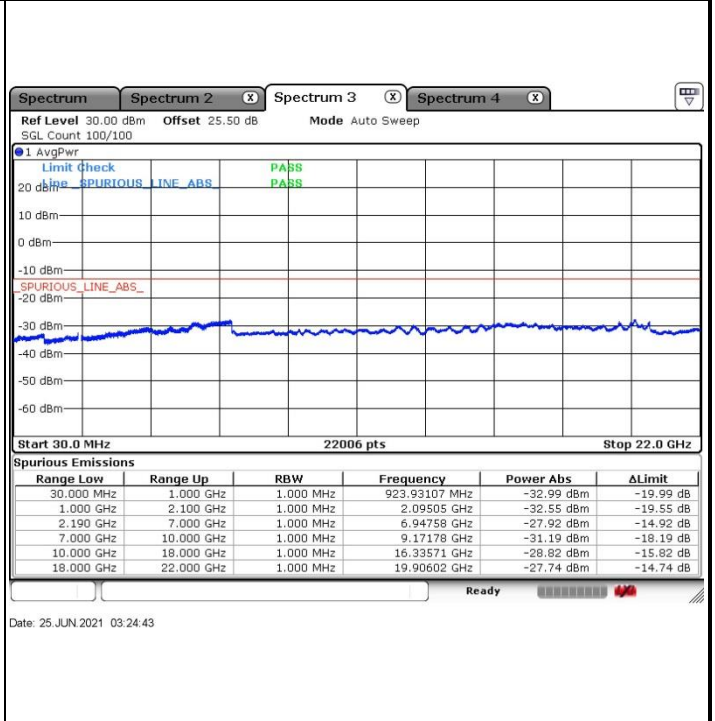
LTE Band 66 / 20MHz

Lowest Channel / QPSK



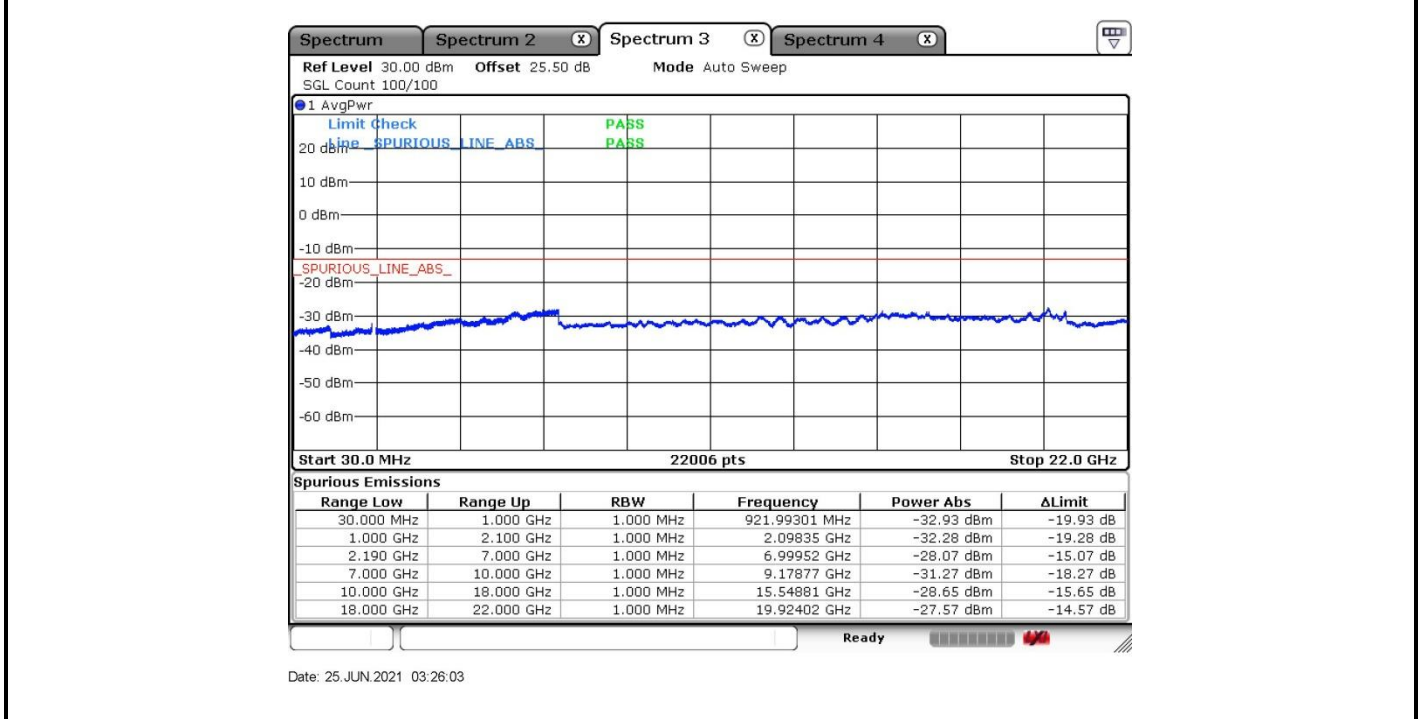
Date: 25 JUN 2021 03:23:21

Middle Channel / QPSK



Date: 25 JUN 2021 03:24:43

Highest Channel / QPSK



Date: 25 JUN 2021 03:26:03



Frequency Stability

Test Conditions		LTE Band 66 BW 20M (QPSK)				Limit
Temperature (°C)	Voltage (Volt)	2120MHz		2170MHz		Note 2
		FL	FH	FL	FH	Result
50	Normal Voltage	2110.912	2129.03	2160.97	2179.03	PASS
40	Normal Voltage	2110.97	2129.03	2160.97	2179.03	
30	Normal Voltage	2110.912	2129.03	2160.97	2179.03	
20(Ref.)	Normal Voltage	2110.912	2129.03	2160.97	2179.03	
10	Normal Voltage	2110.97	2129.03	2160.97	2179.03	
0	Normal Voltage	2110.912	2129.03	2160.97	2179.03	
-10	Normal Voltage	2110.97	2129.03	2160.912	2179.03	
-20	Normal Voltage	2110.912	2129.03	2160.97	2179.03	
-30	Normal Voltage	2110.912	2129.03	2160.97	2179.03	
20	Maximum Voltage	2110.912	2129.03	2160.97	2179.03	
20	Normal Voltage	2110.97	2129.03	2160.97	2179.03	
20	Minimum Voltage	2110.912	2129.03	2160.97	2179.03	

Note:

1. Normal Voltage =120 V. ; Minimum Voltage =102 V. ; Maximum Voltage =138 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

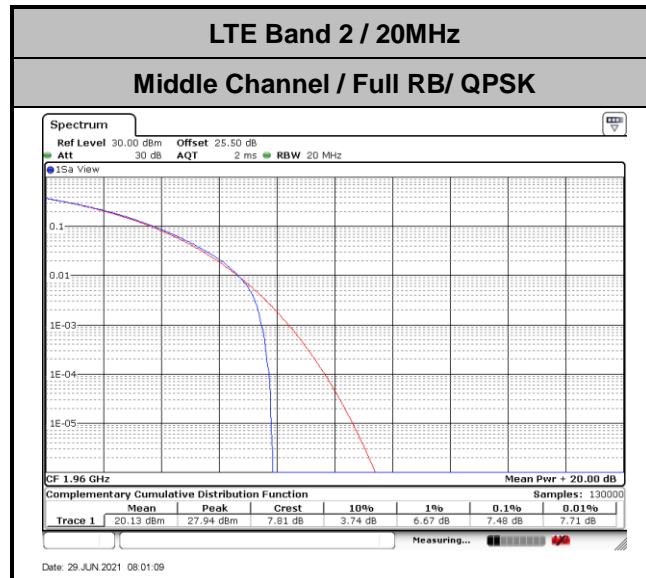


For NB-IOT Category NB1:

LTE Band 2 MIMO Ant. 1

Peak-to-Average Ratio

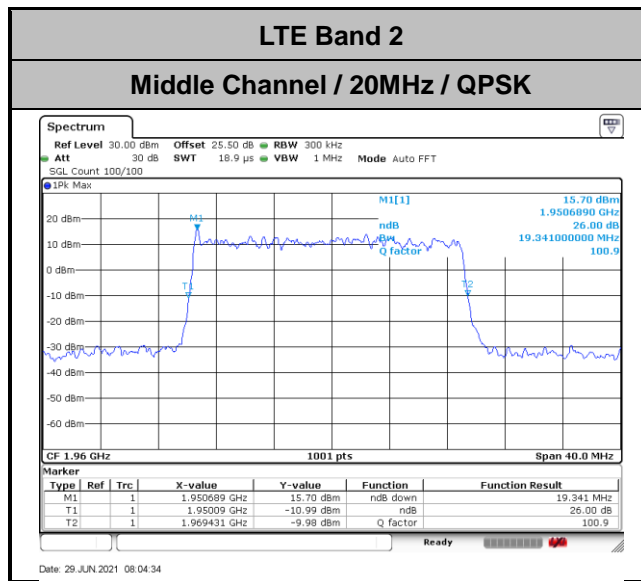
Mode	LTE Band 2 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	7.48	PASS





26dB Bandwidth

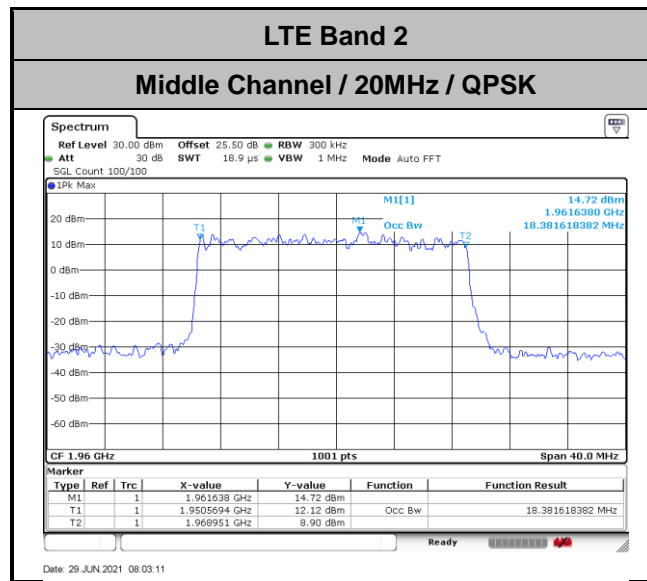
Mode	LTE Band 2 : 26dB BW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	19.34





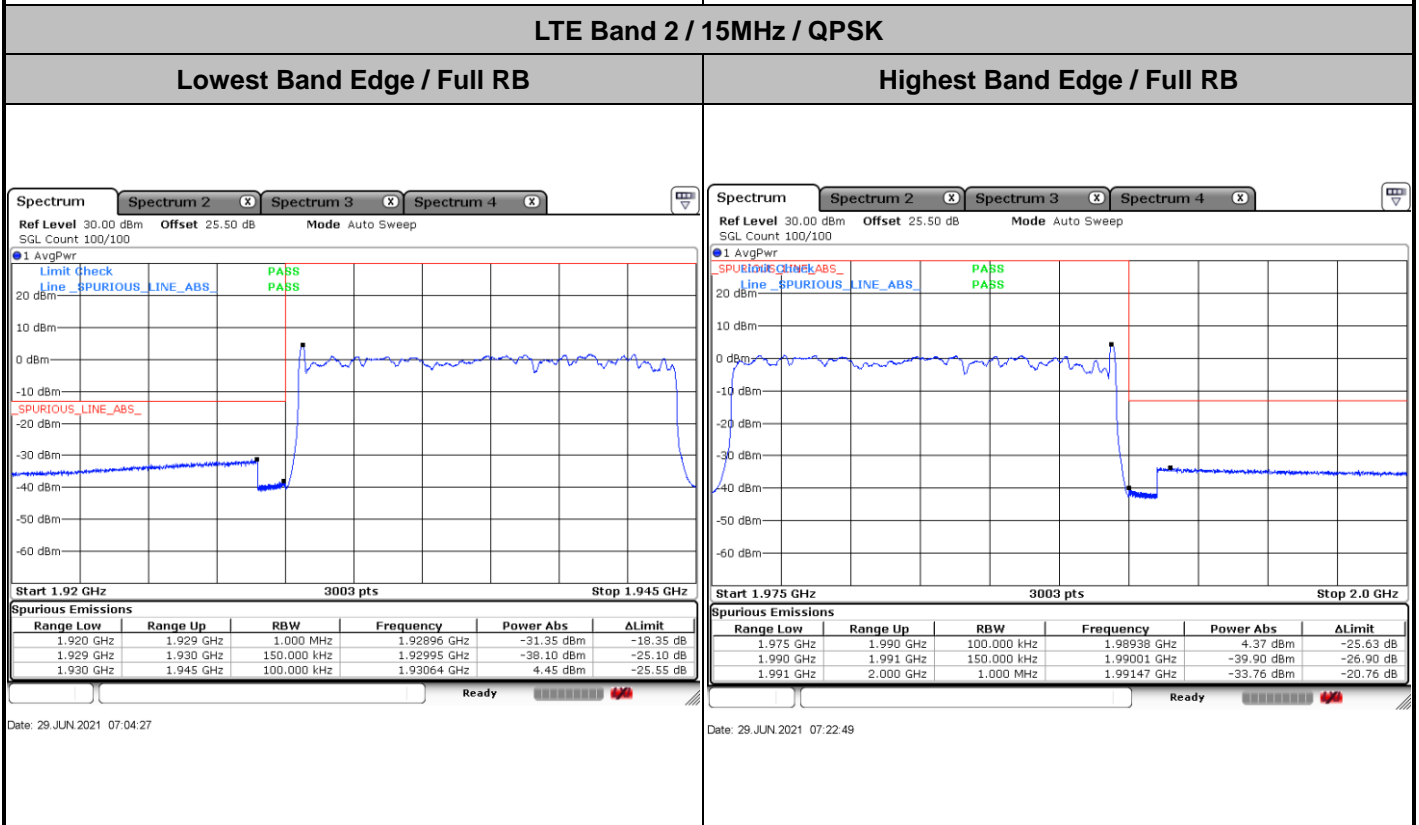
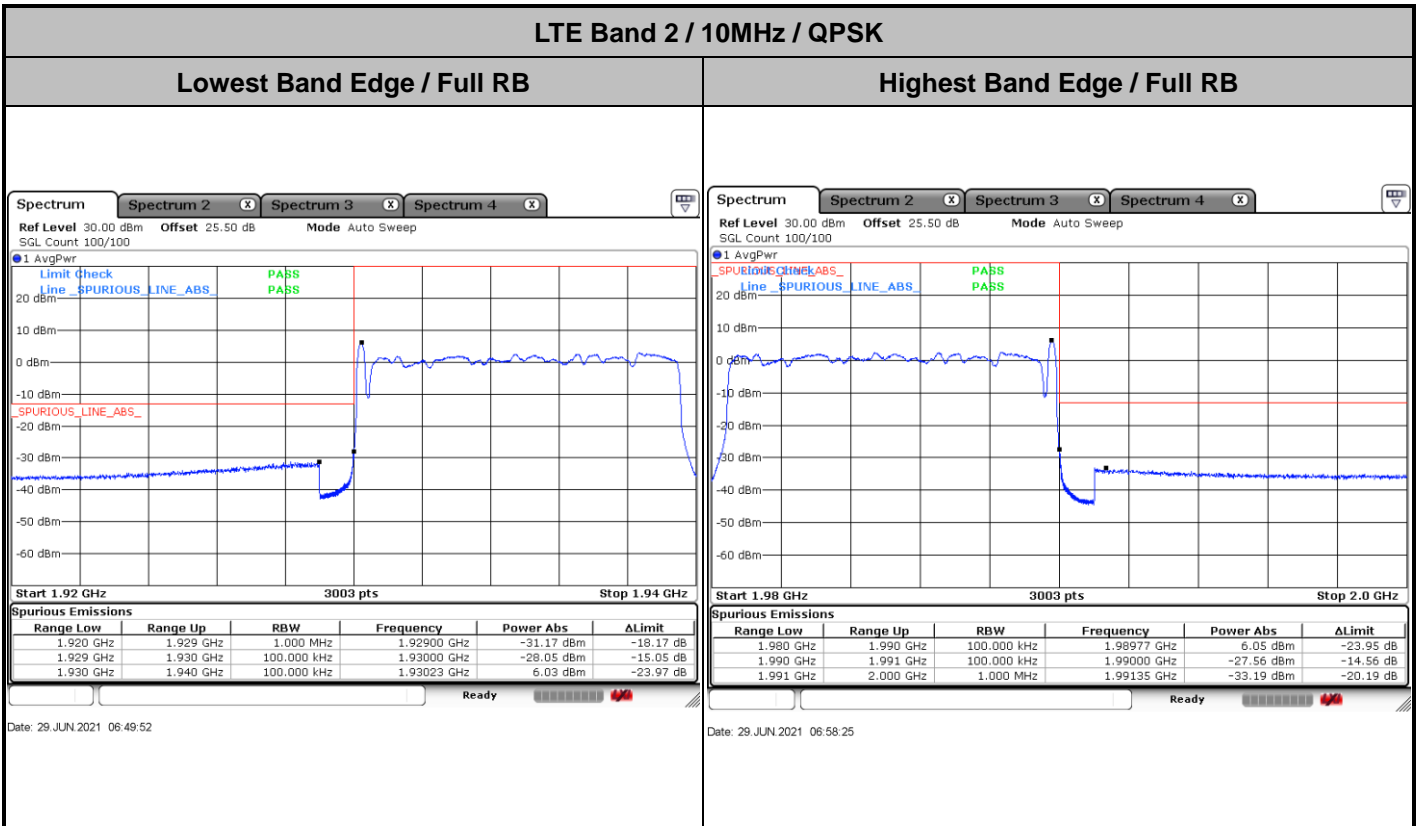
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	18.38





Conducted Band Edge

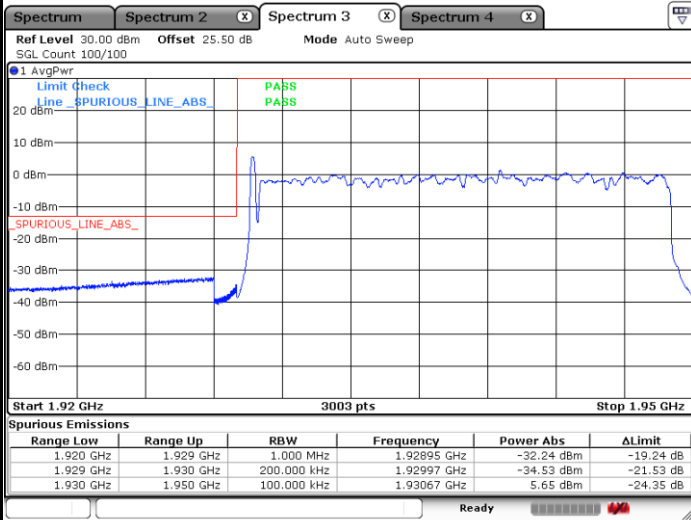




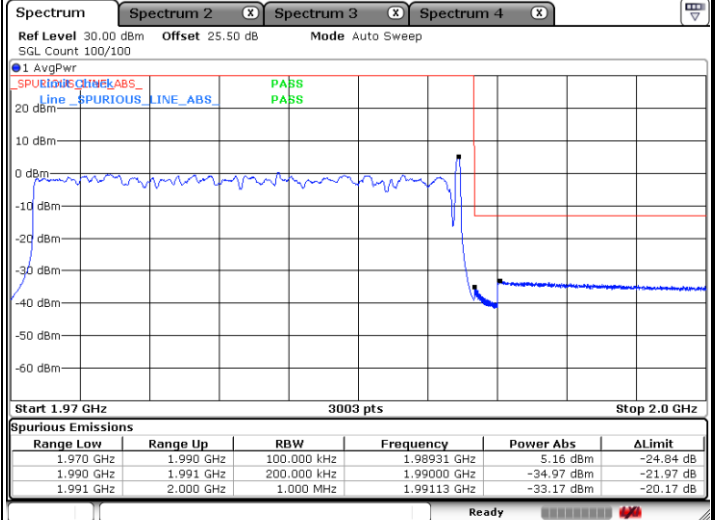
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



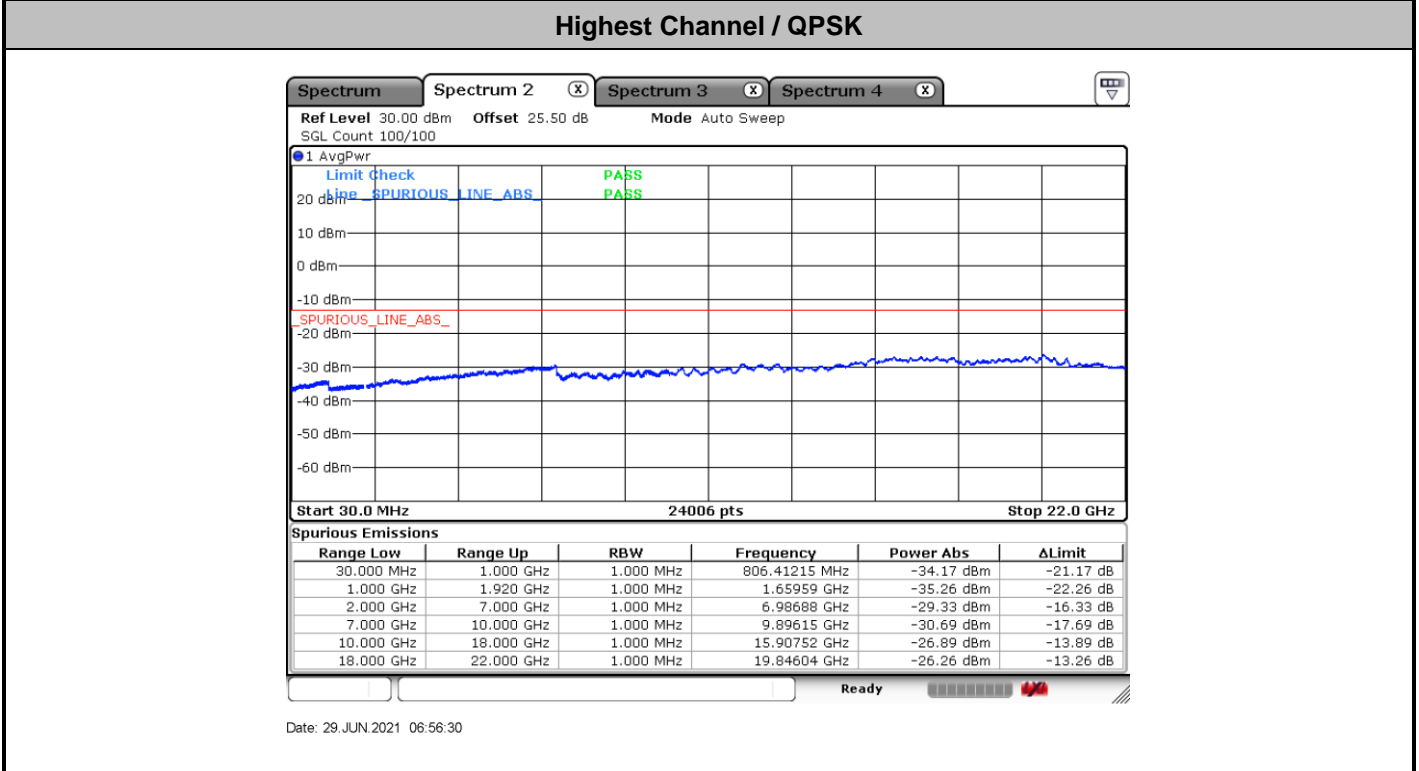
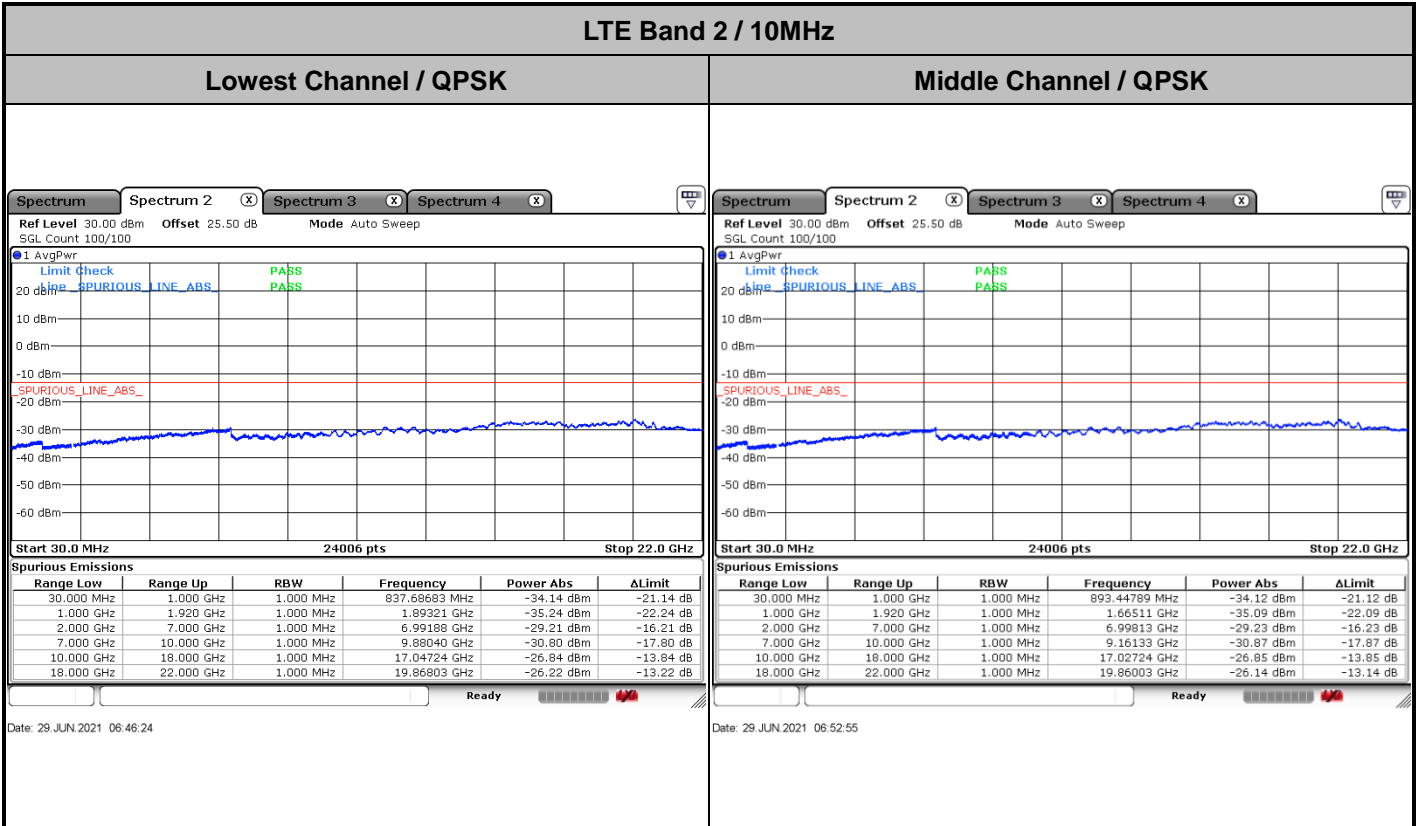
Date: 30 JUN 2021 02:26:29



Date: 29 JUN 2021 07:29:27



Conducted Spurious Emission

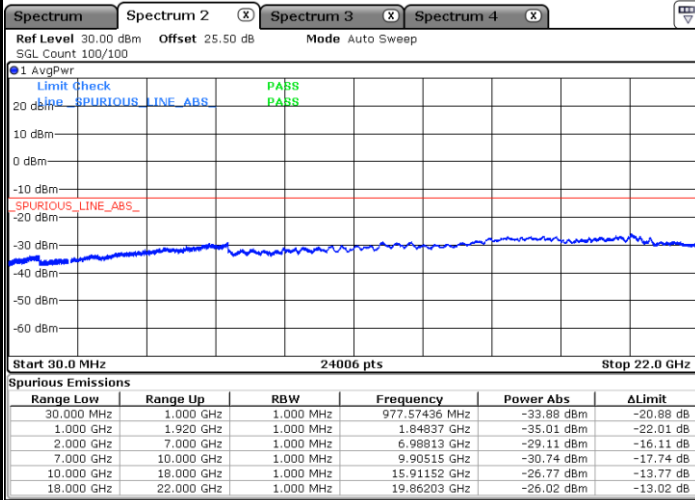




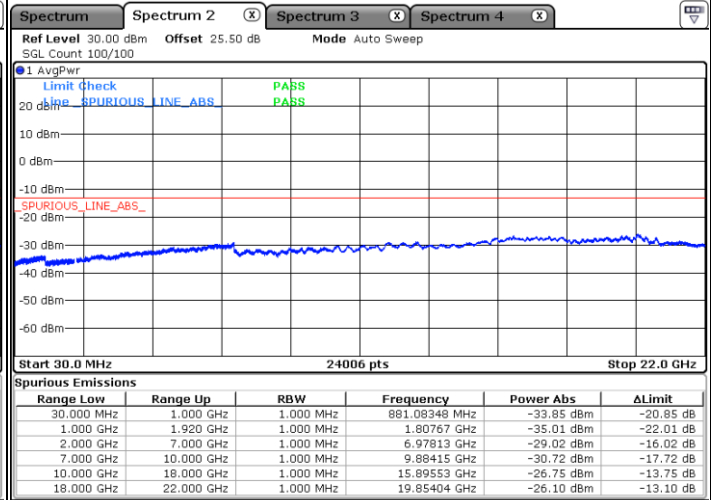
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

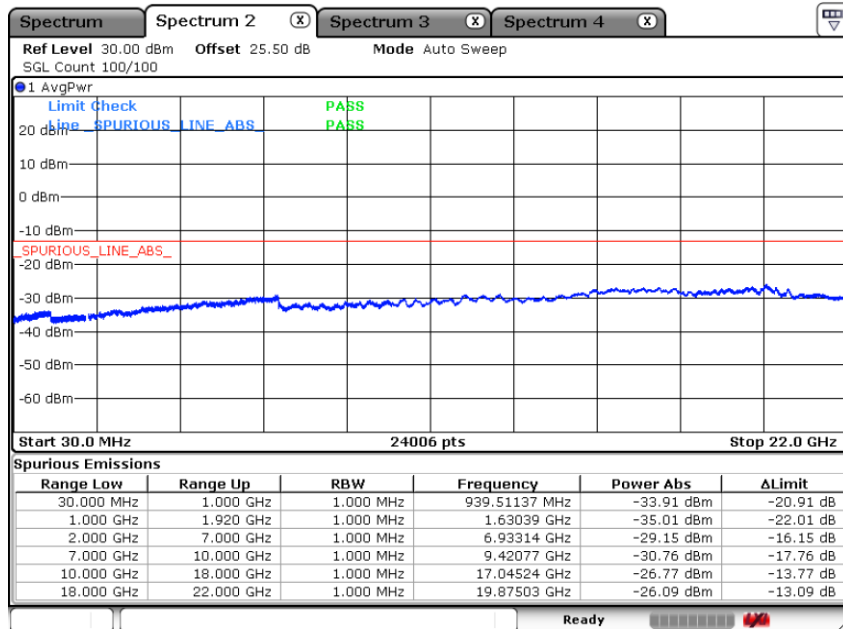


Date: 30 JUN 2021 03:33:44



Date: 30 JUN 2021 03:24:51

Highest Channel / QPSK



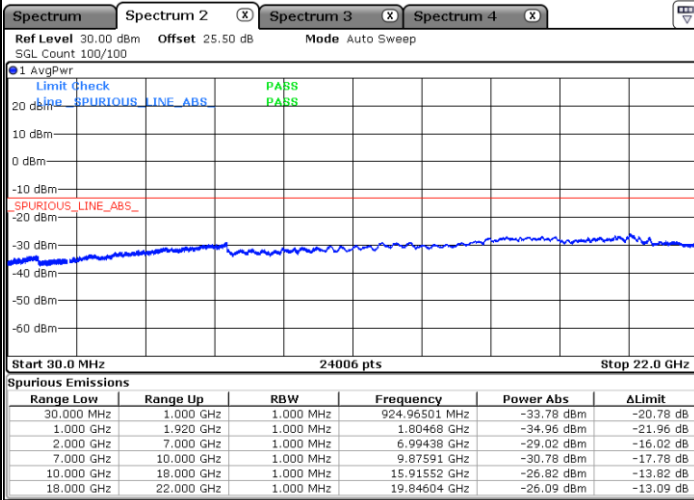
Date: 30 JUN 2021 03:32:52



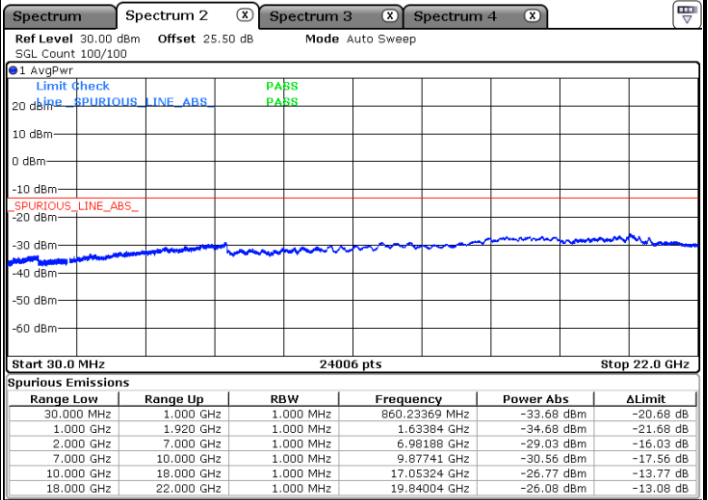
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

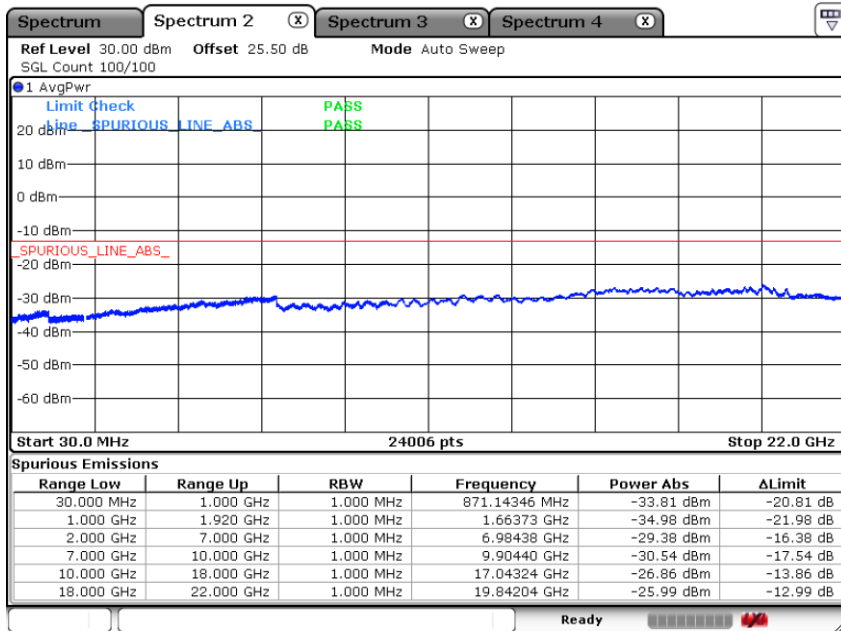


Date: 30 JUN 2021 03:30:24



Date: 30 JUN 2021 03:27:18

Highest Channel / QPSK



Date: 30 JUN 2021 03:31:38



Frequency Stability

Test Conditions		LTE Band 2 BW 20M (QPSK)				Limit
Temperature (°C)	Voltage (Volt)	1940MHz		1980MHz		Note 2
		FL	FH	FL	FH	Result
50	Normal Voltage	1930.507	1949.03	1970.97	1989.493	PASS
40	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
30	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
20(Ref.)	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
10	Normal Voltage	1930.564	1949.03	1970.97	1989.493	
0	Normal Voltage	1930.564	1949.03	1970.97	1989.493	
-10	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
-20	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
-30	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
20	Maximum Voltage	1930.564	1949.03	1970.97	1989.493	
20	Normal Voltage	1930.507	1949.03	1970.97	1989.493	
20	Minimum Voltage	1930.507	1949.03	1970.97	1989.493	

Note:

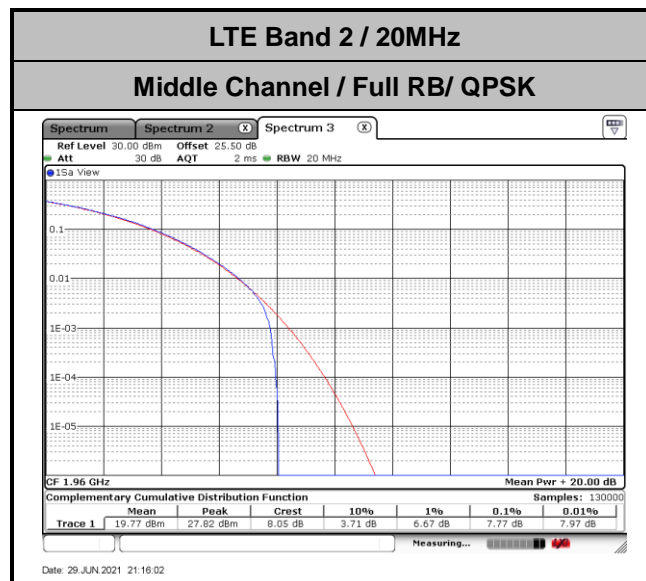
1. Normal Voltage =120 V. ; Minimum Voltage =102 V. ; Maximum Voltage =138 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 2 MIMO Ant. 2

Peak-to-Average Ratio

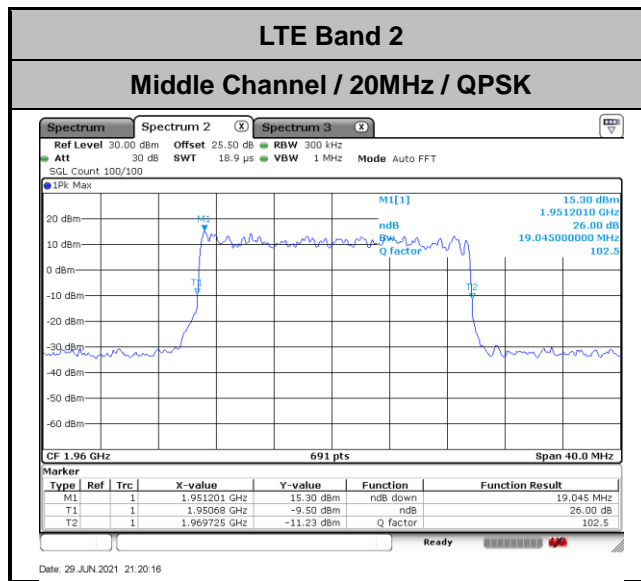
Mode	LTE Band 2 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	7.77	PASS





26dB Bandwidth

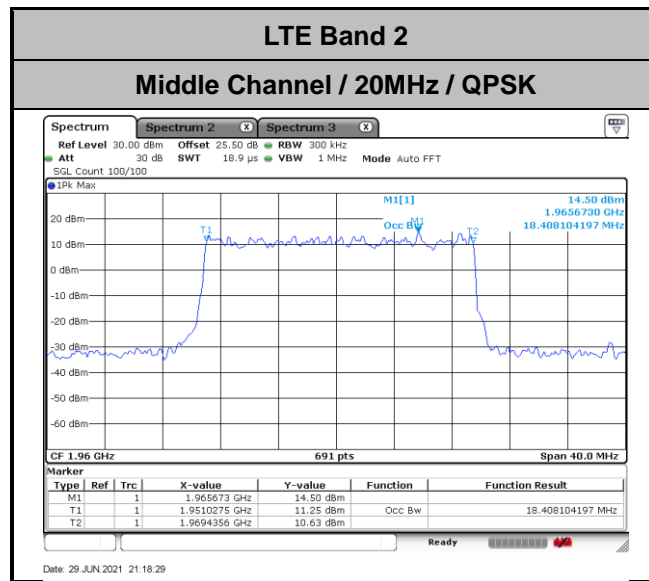
Mode	LTE Band 2 : 26dB BW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	19.05





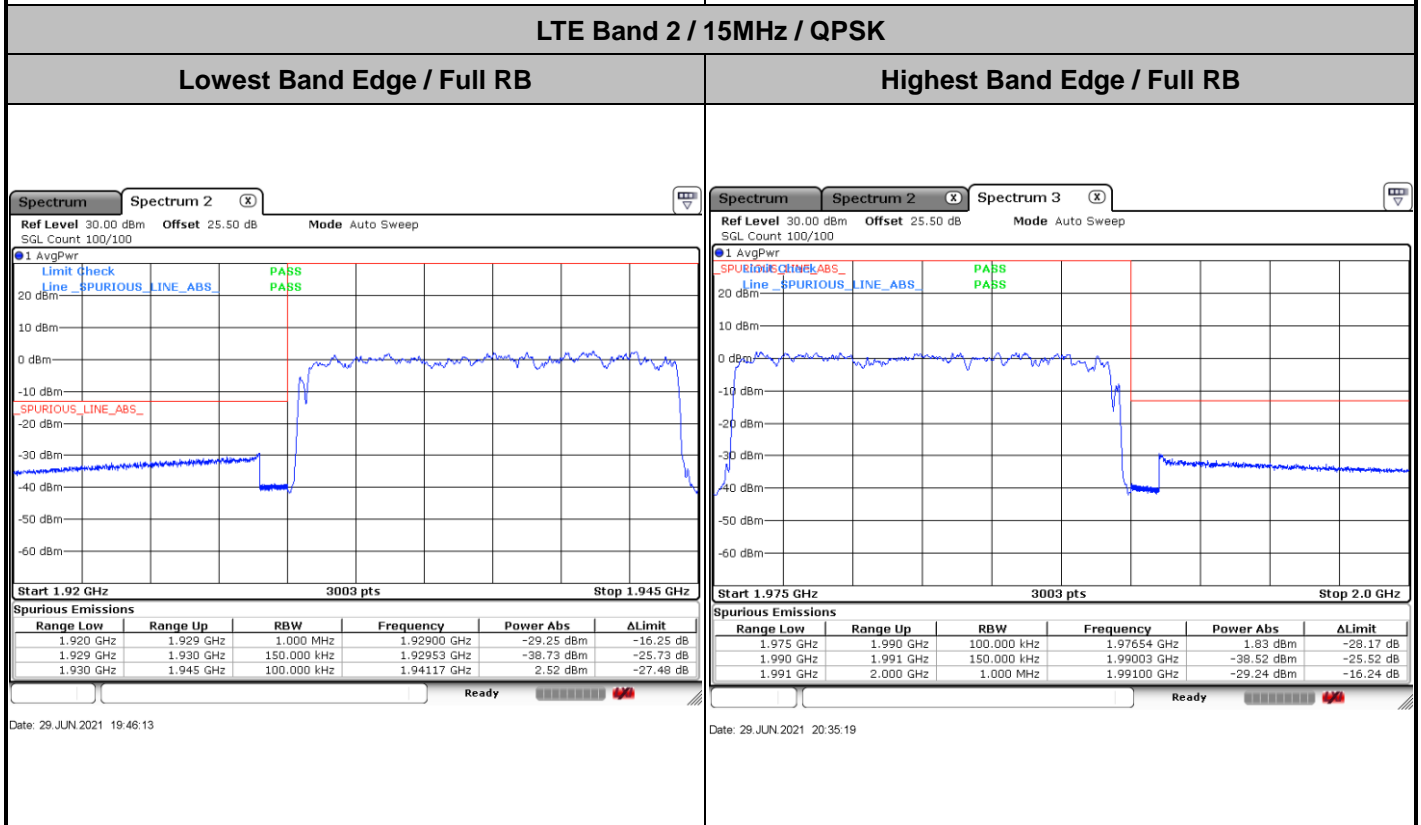
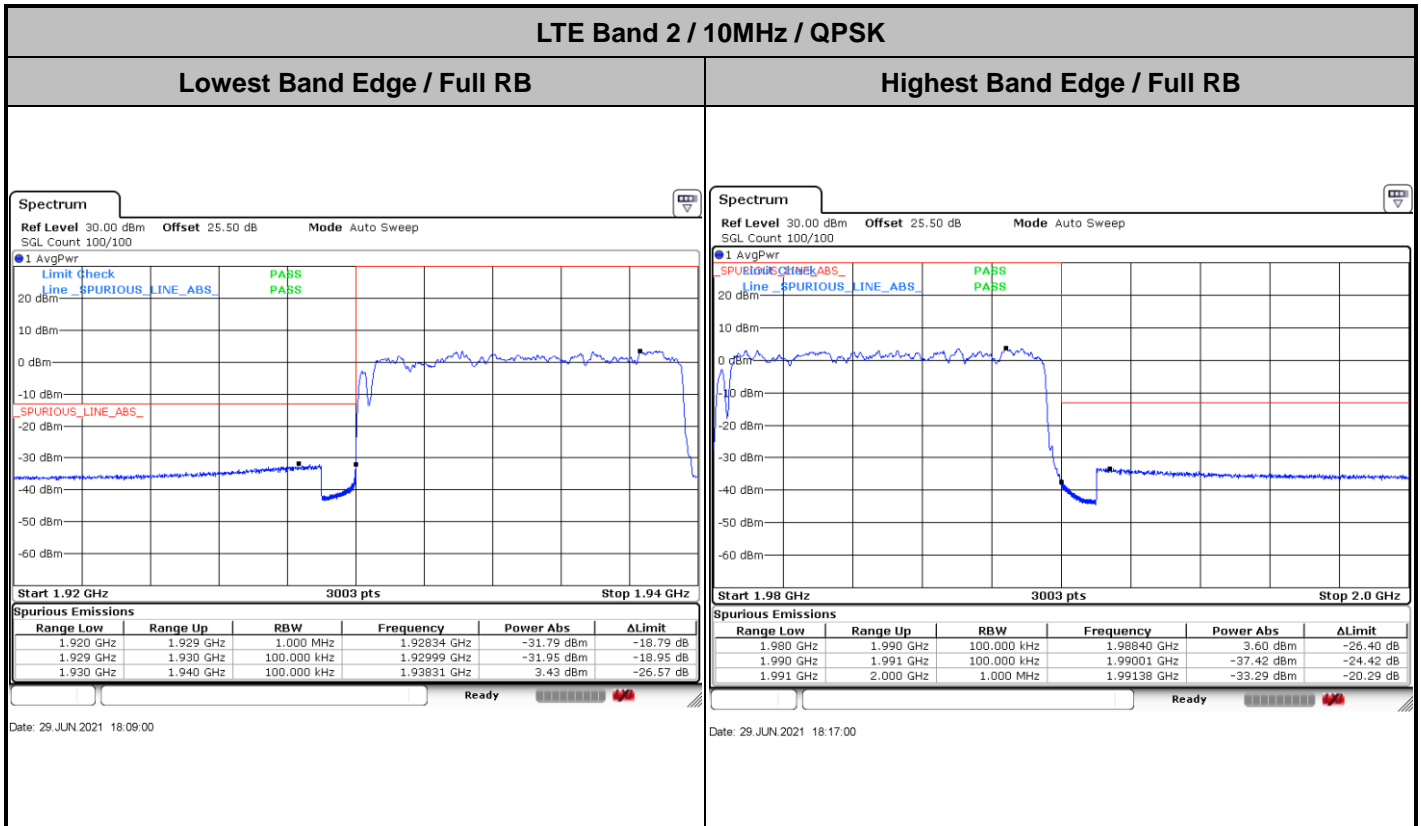
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	18.41





Conducted Band Edge

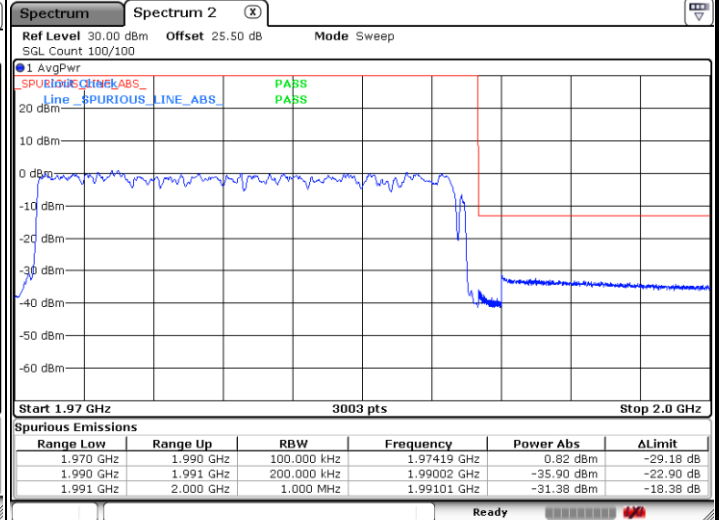
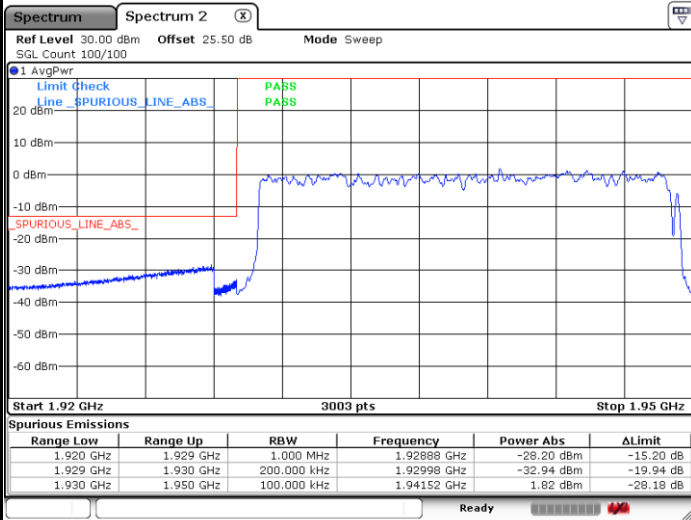




LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

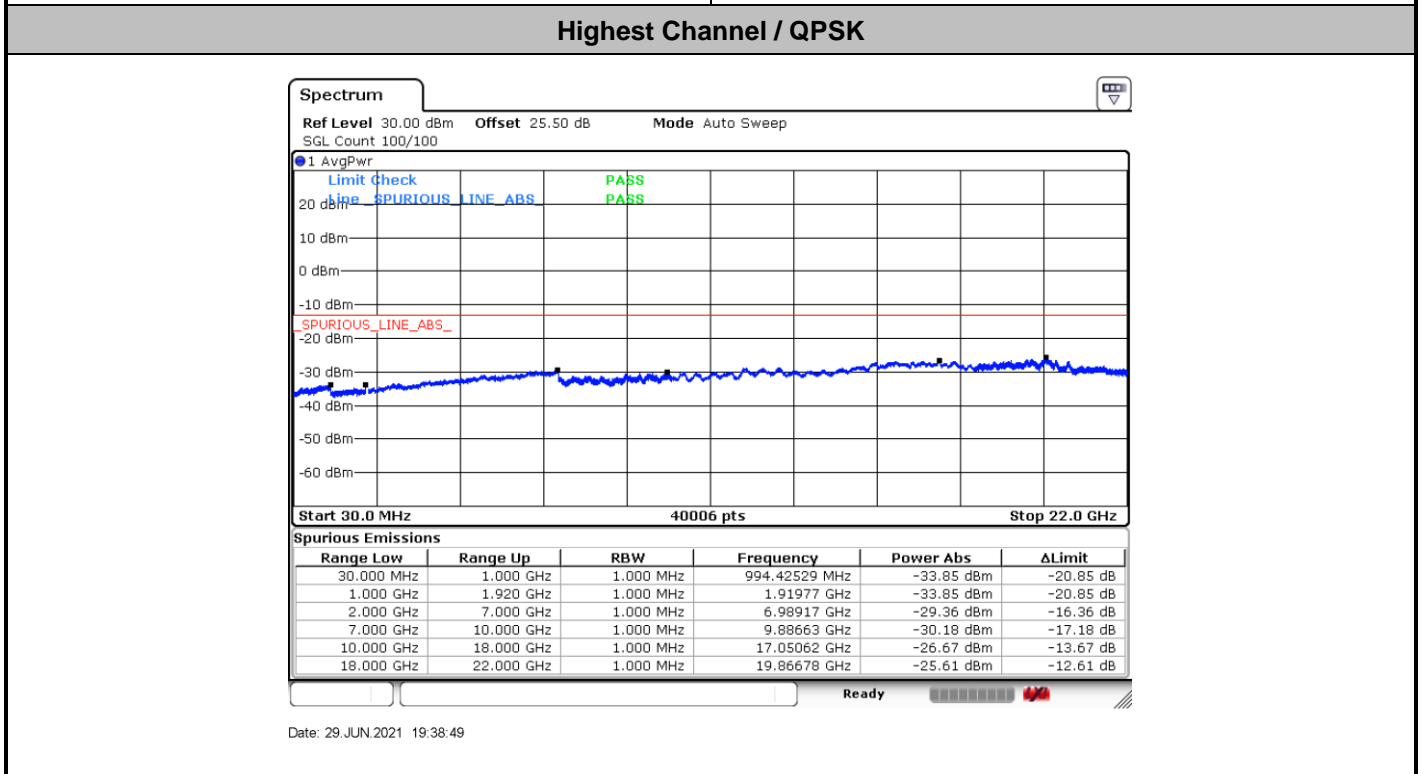
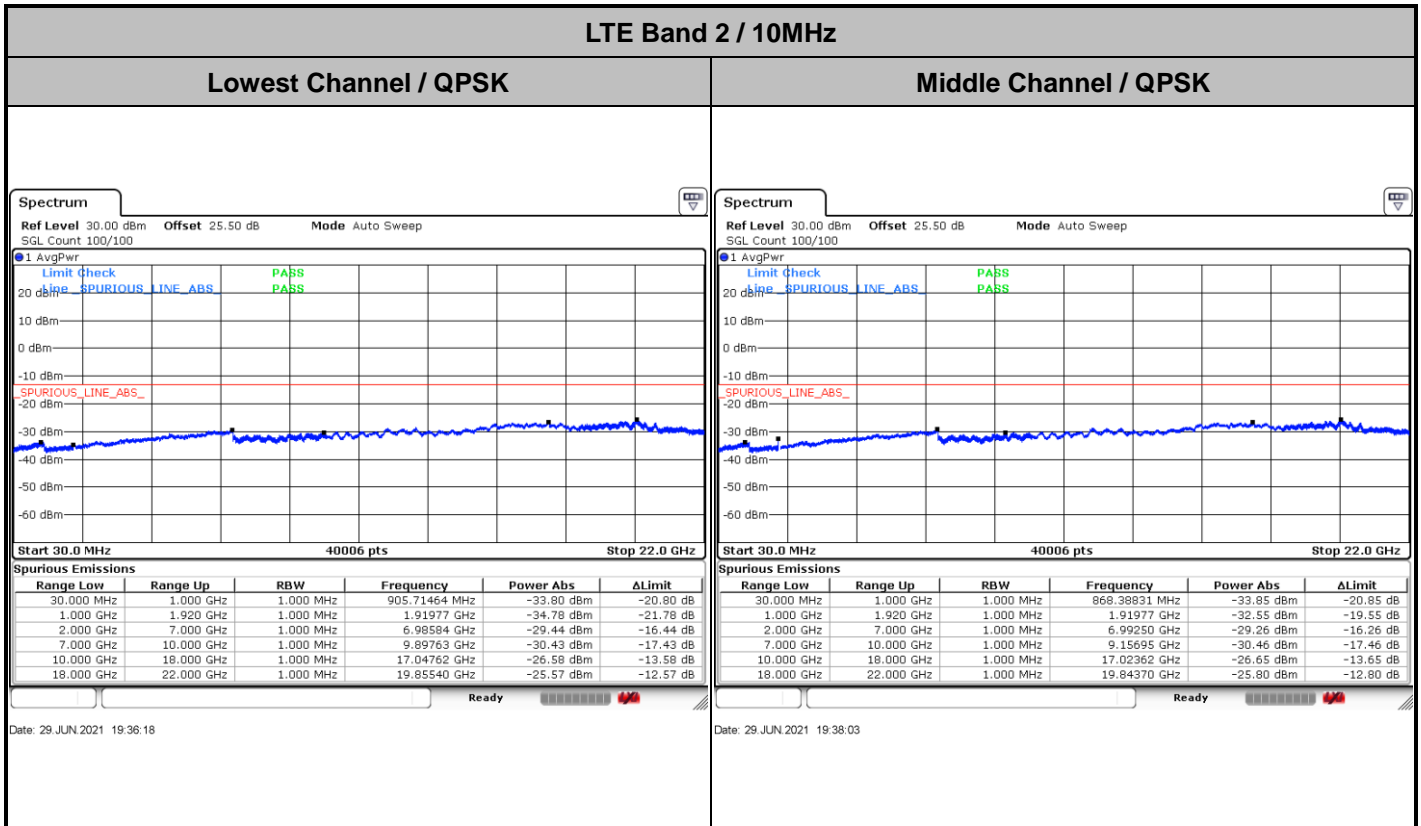


Date: 28 JUN 2021 21:11:56

Date: 29 JUN 2021 21:02:57



Conducted Spurious Emission

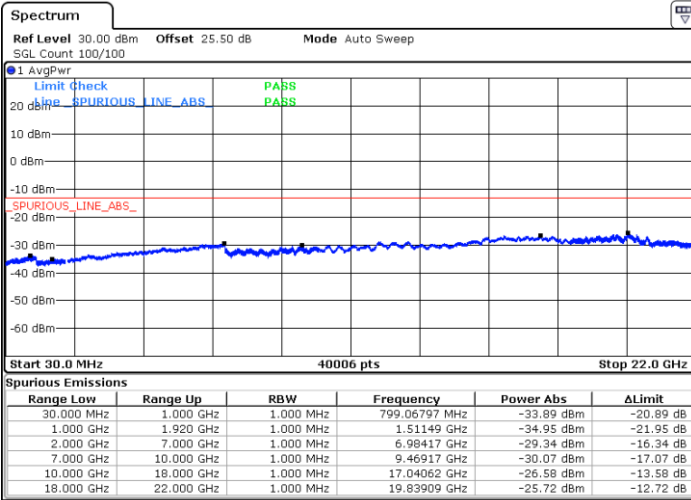




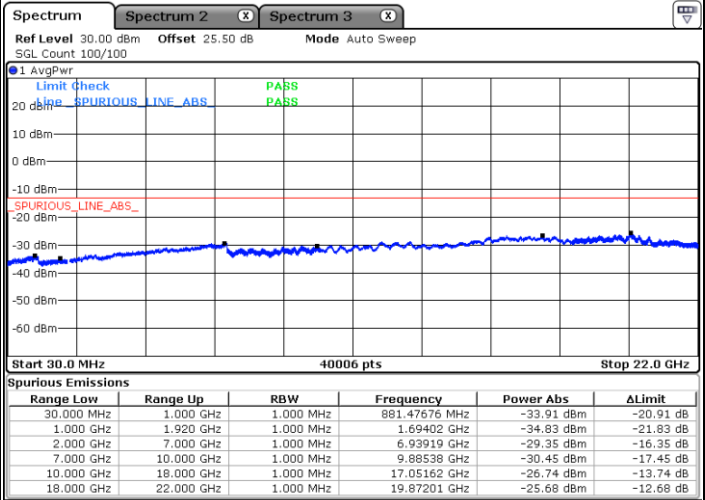
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

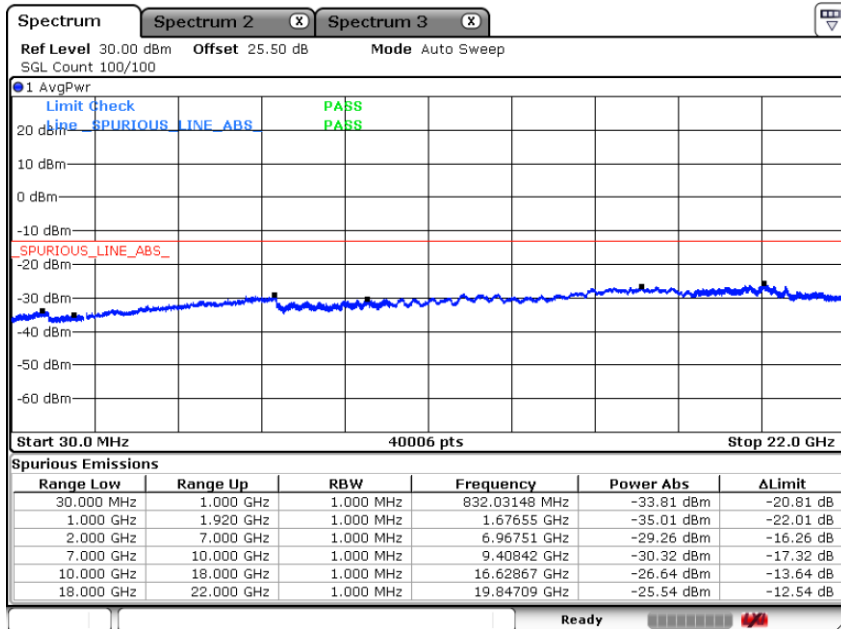


Date: 29 JUN 2021 19:43:57



Date: 29 JUN 2021 19:51:32

Highest Channel / QPSK



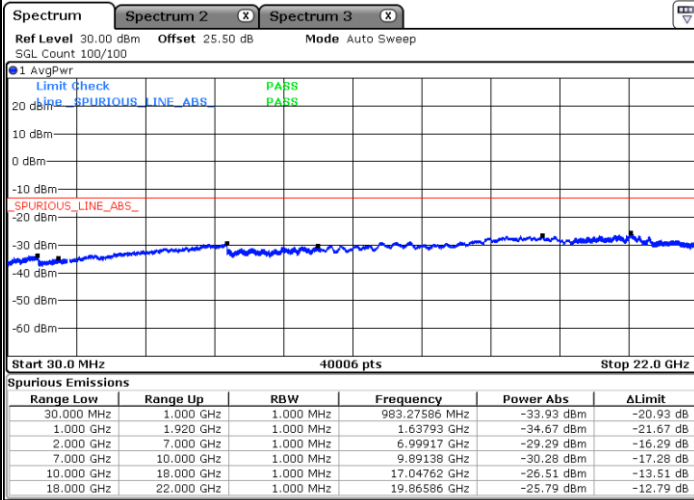
Date: 29 JUN 2021 20:34:37



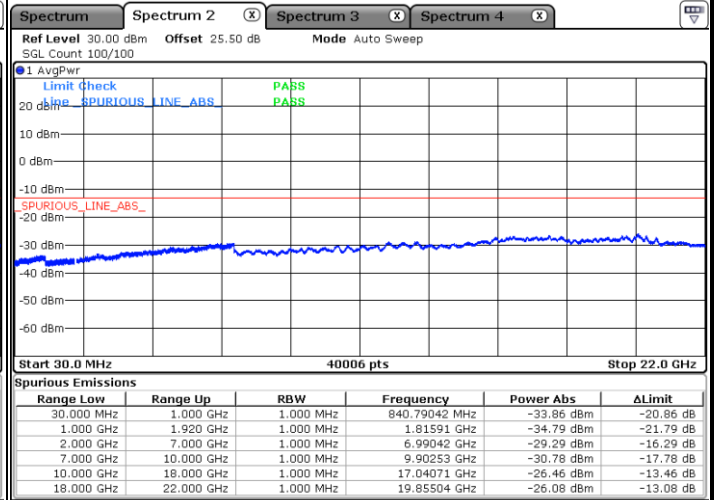
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

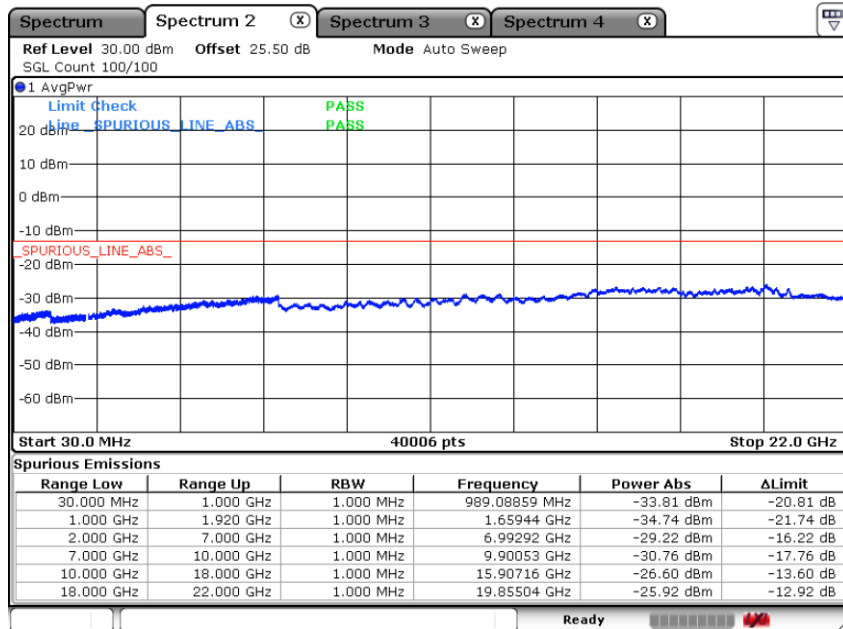


Date: 29 JUN 2021 20:45:35



Date: 30 JUN 2021 03:21:14

Highest Channel / QPSK



Date: 30 JUN 2021 03:22:27



Frequency Stability

Test Conditions		LTE Band 2 BW 20M (QPSK)				Limit
Temperature (°C)	Voltage (Volt)	1940MHz		1980MHz		Note 2
		FL	FH	FL	FH	Result
50	Normal Voltage	1930.622	1949.03	1970.97	1989.436	PASS
40	Normal Voltage	1930.622	1949.03	1970.97	1989.378	
30	Normal Voltage	1930.622	1949.03	1970.97	1989.378	
20(Ref.)	Normal Voltage	1930.622	1949.03	1970.97	1989.436	
10	Normal Voltage	1930.622	1949.03	1970.97	1989.436	
0	Normal Voltage	1930.622	1949.03	1970.97	1989.436	
-10	Normal Voltage	1930.622	1949.03	1970.97	1989.436	
-20	Normal Voltage	1930.622	1949.03	1970.97	1989.378	
-30	Normal Voltage	1930.622	1949.03	1970.97	1989.436	
20	Maximum Voltage	1930.622	1949.03	1970.97	1989.436	
20	Normal Voltage	1930.622	1949.03	1970.97	1989.378	
20	Minimum Voltage	1930.622	1949.03	1970.97	1989.378	

Note:

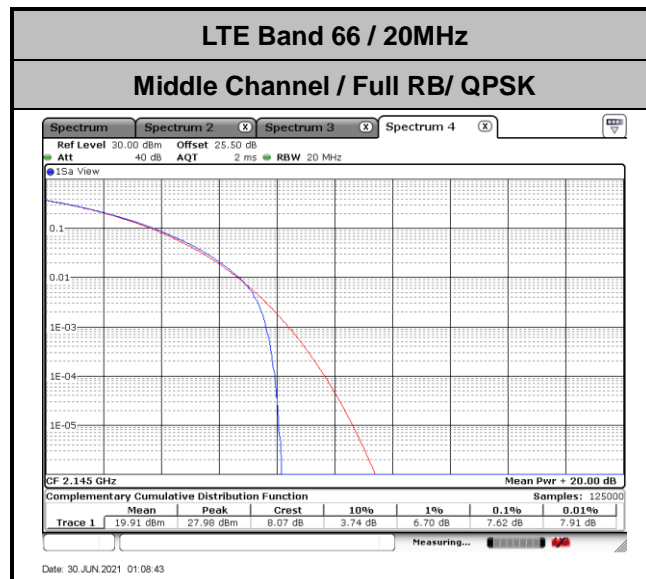
1. Normal Voltage =120 V. ; Minimum Voltage =102 V. ; Maximum Voltage =138 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66 MIMO Ant. 3

Peak-to-Average Ratio

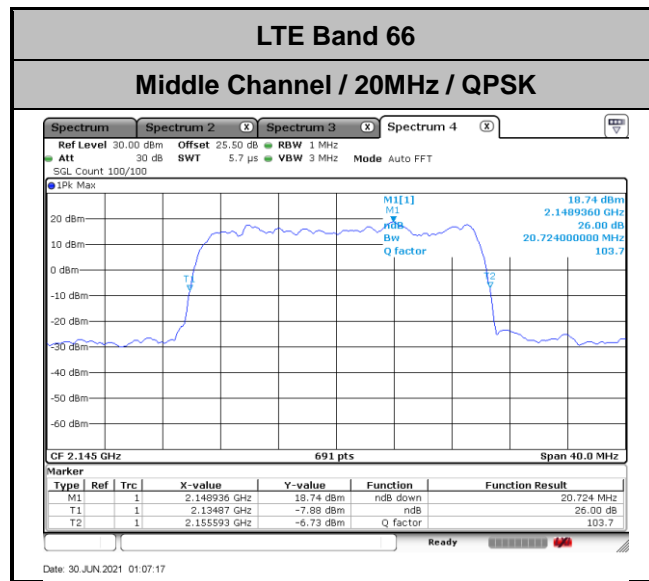
Mode	LTE Band 66 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	7.62	PASS





26dB Bandwidth

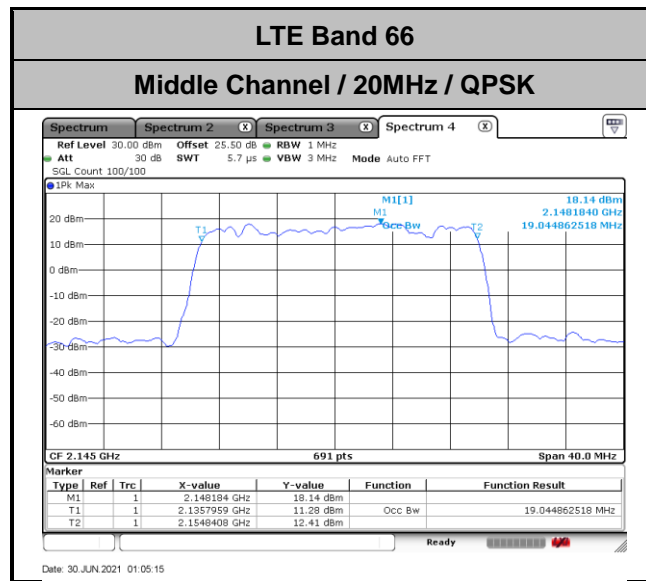
Mode	LTE Band 66 : 26dB BW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	20.72





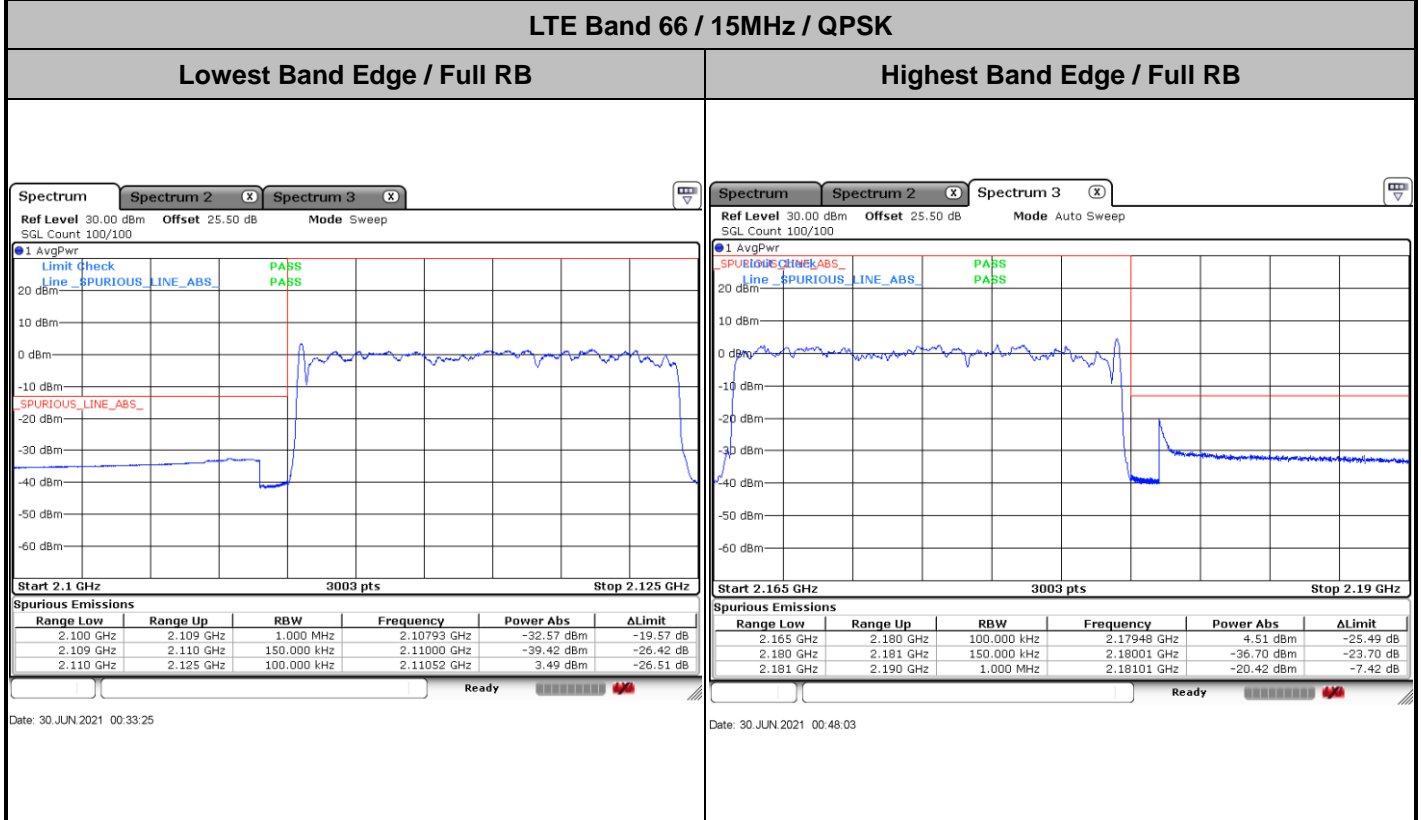
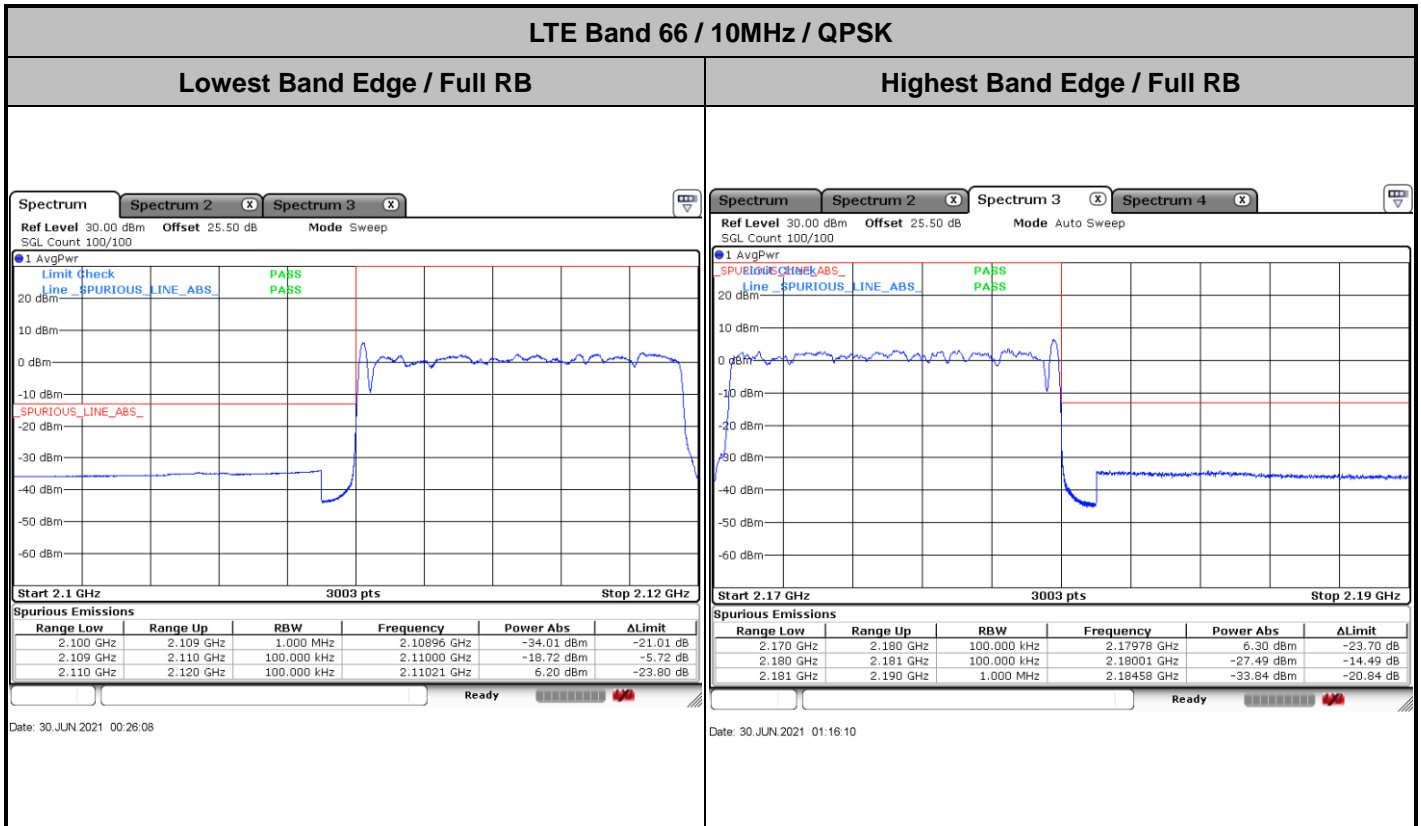
Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	19.04





Conducted Band Edge

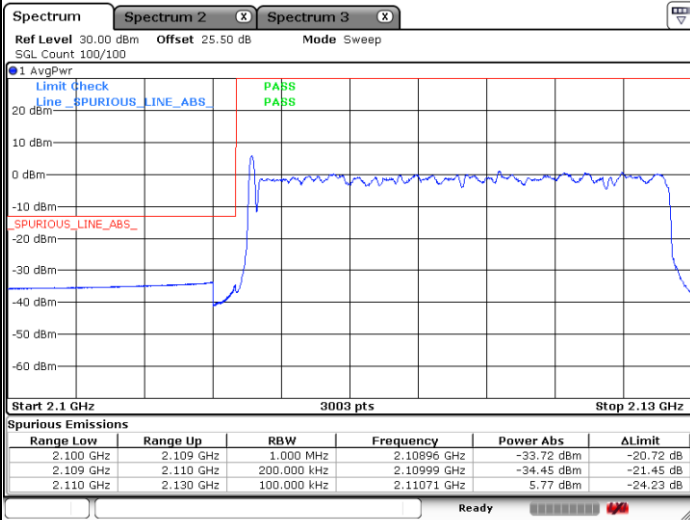




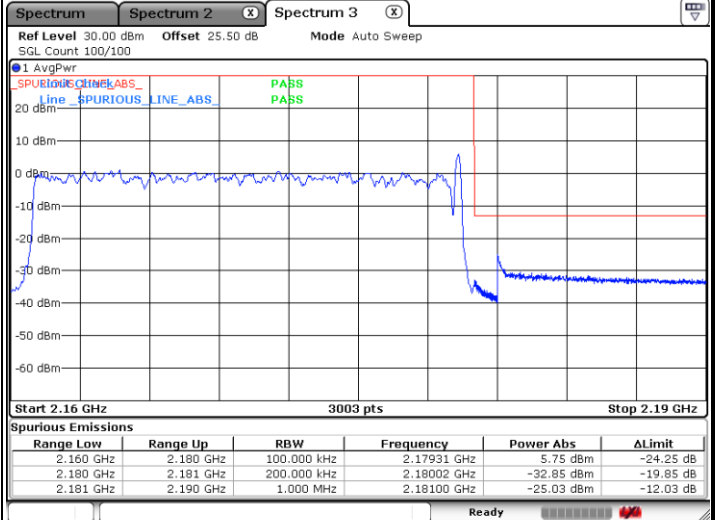
LTE Band 66 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



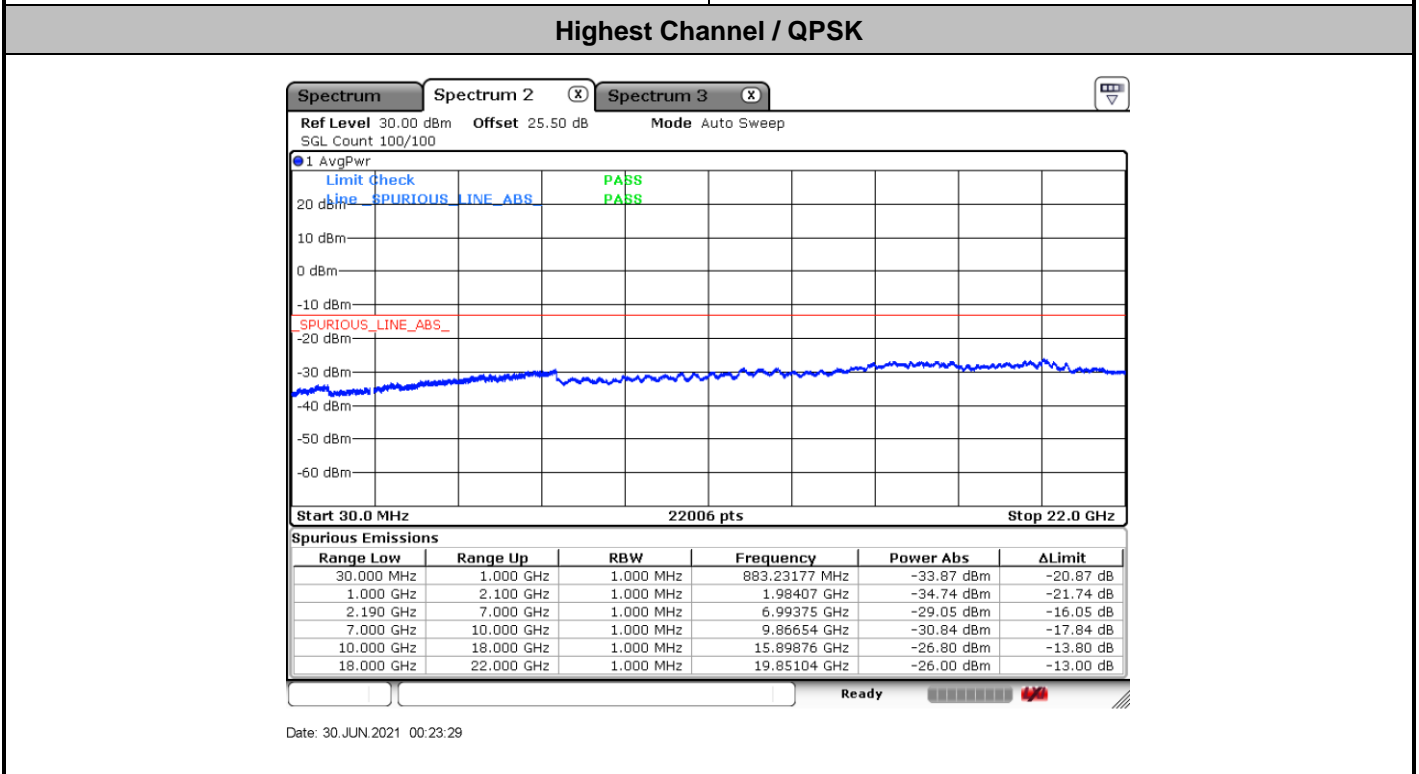
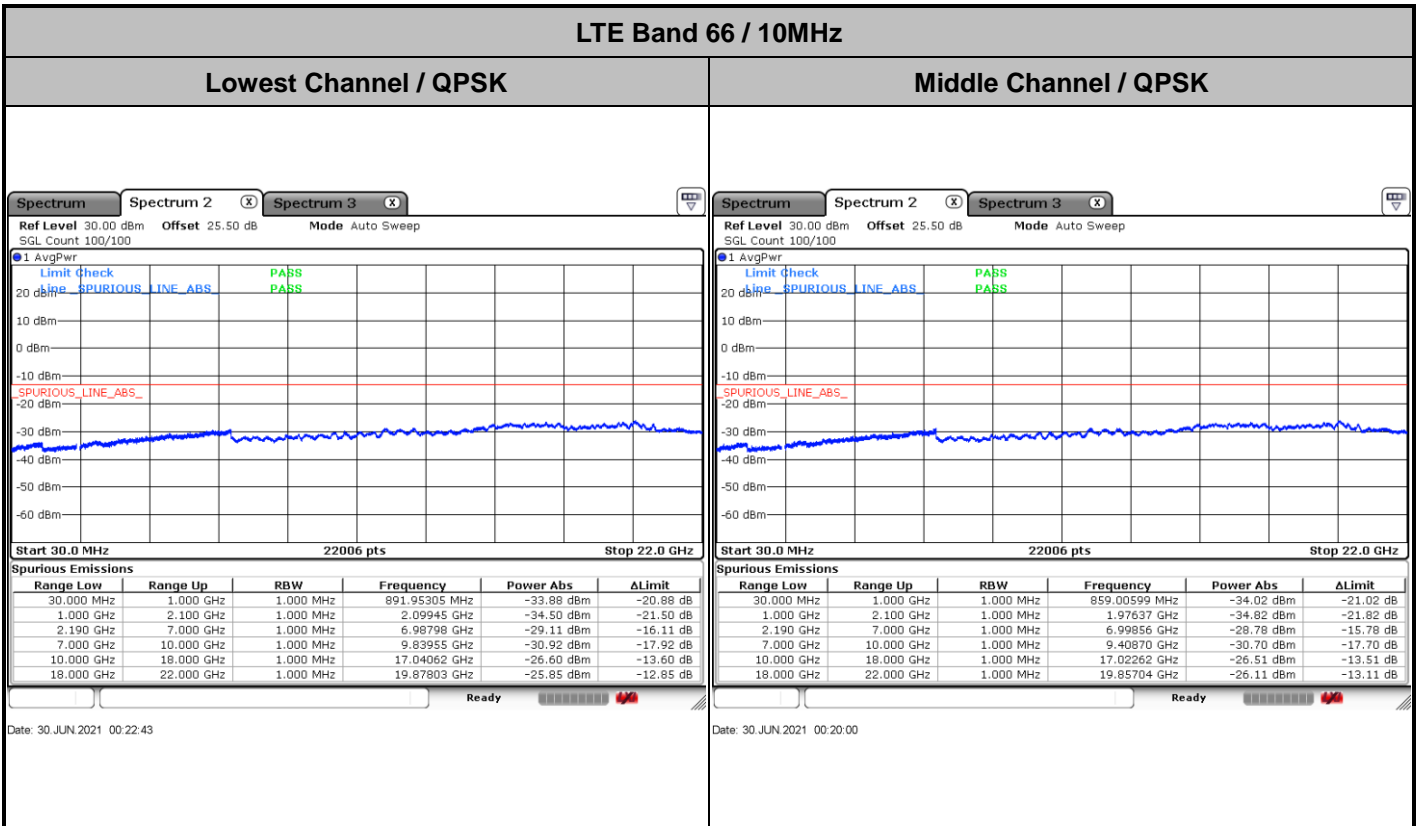
Date: 30 JUN 2021 00:56:26



Date: 30 JUN 2021 01:00:47



Conducted Spurious Emission

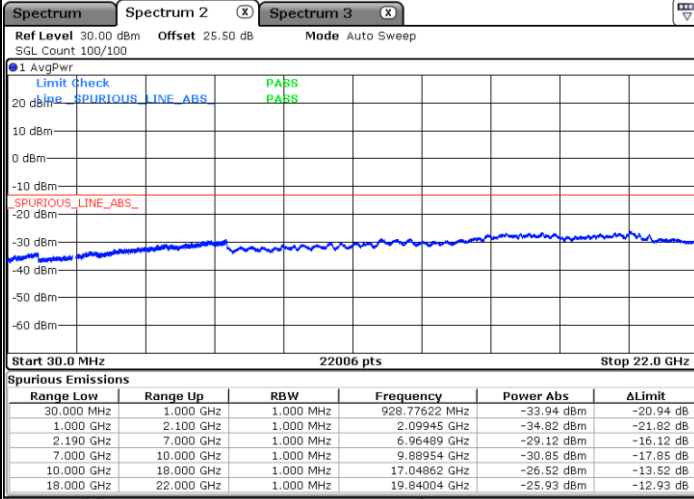




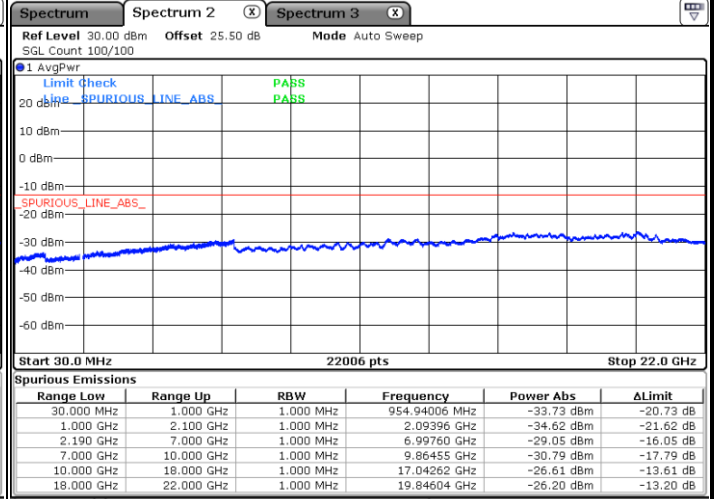
LTE Band 66 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

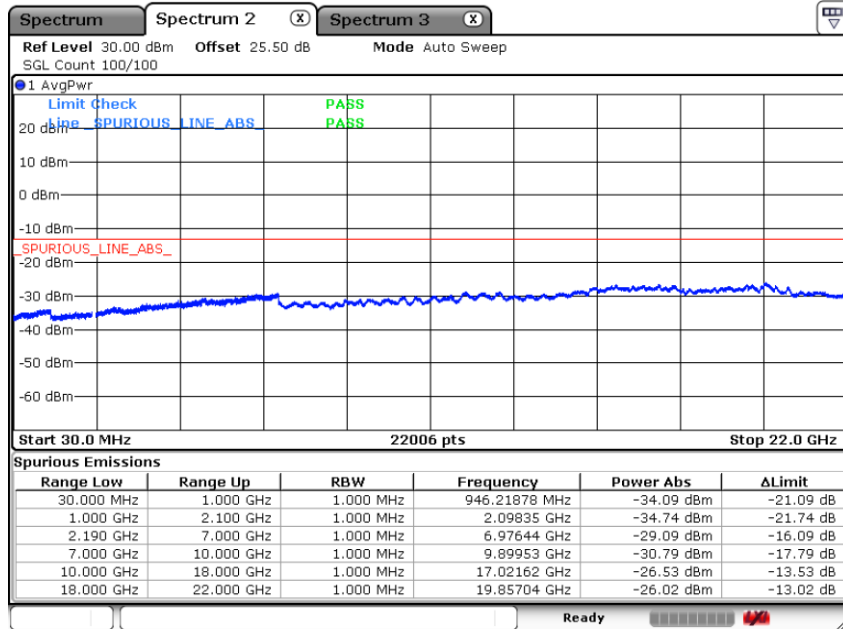


Date: 30 JUN 2021 00:41:51



Date: 30 JUN 2021 00:40:56

Highest Channel / QPSK

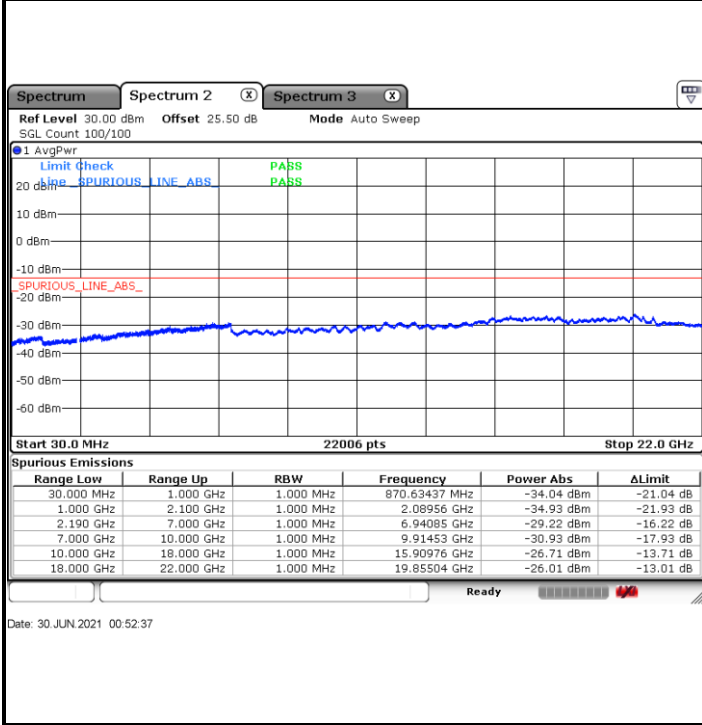


Date: 30 JUN 2021 00:45:02



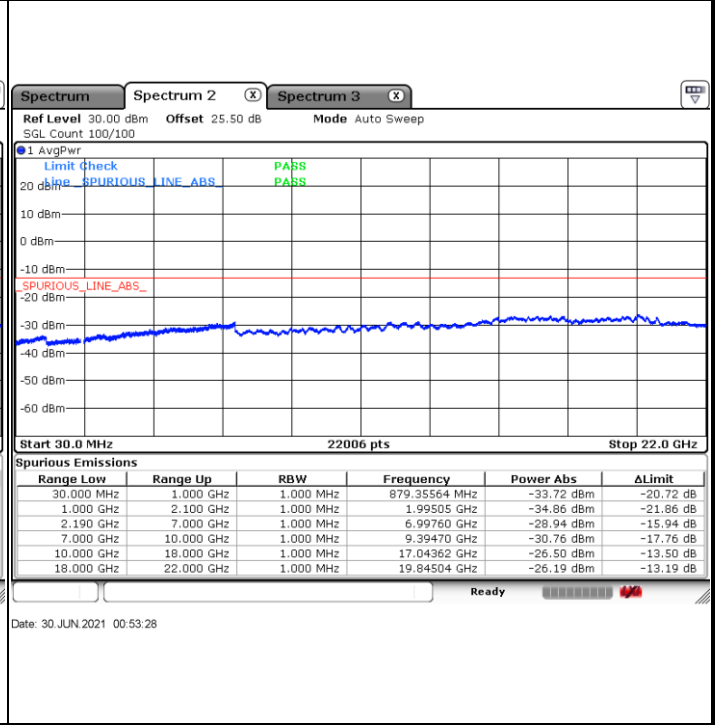
LTE Band 66 / 20MHz

Lowest Channel / QPSK



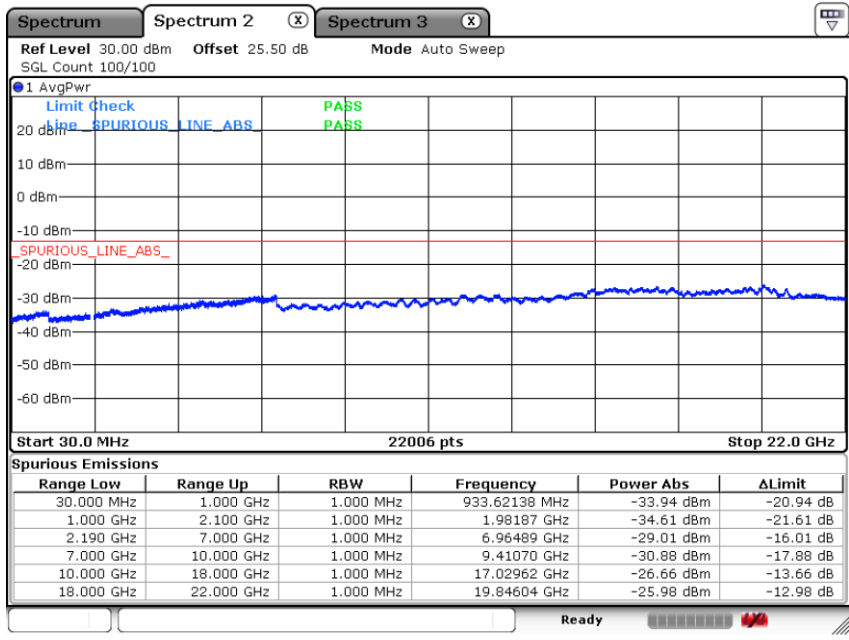
Date: 30 JUN 2021 00:52:37

Middle Channel / QPSK



Date: 30 JUN 2021 00:53:28

Highest Channel / QPSK



Date: 30 JUN 2021 00:54:27



Frequency Stability

Test Conditions		LTE Band 66 BW 20M (QPSK)				Limit
Temperature (°C)	Voltage (Volt)	2120MHz		2170MHz		Note 2
		FL	FH	FL	FH	Result
50	Normal Voltage	2110.564	2129.03	2160.97	2179.436	PASS
40	Normal Voltage	2110.622	2129.03	2160.97	2179.436	
30	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
20(Ref.)	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
10	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
0	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
-10	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
-20	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
-30	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
20	Maximum Voltage	2110.564	2129.03	2160.97	2179.436	
20	Normal Voltage	2110.564	2129.03	2160.97	2179.436	
20	Minimum Voltage	2110.564	2129.03	2160.97	2179.436	

Note:

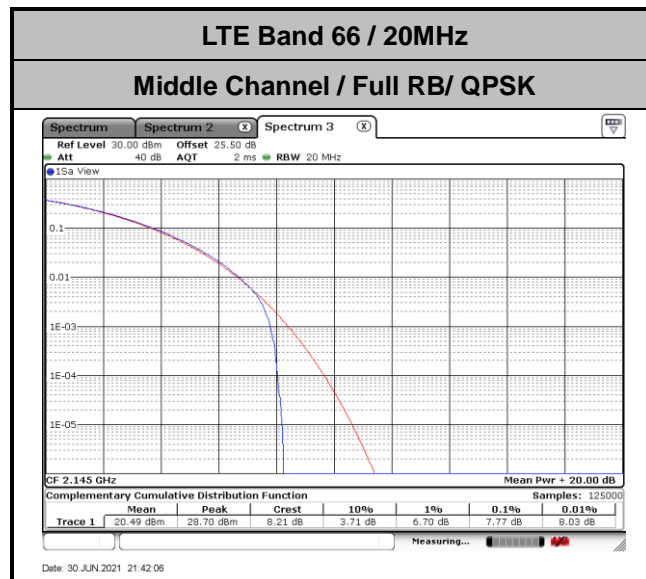
1. Normal Voltage =120 V. ; Minimum Voltage =102 V. ; Maximum Voltage =138 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66 MIMO Ant. 4

Peak-to-Average Ratio

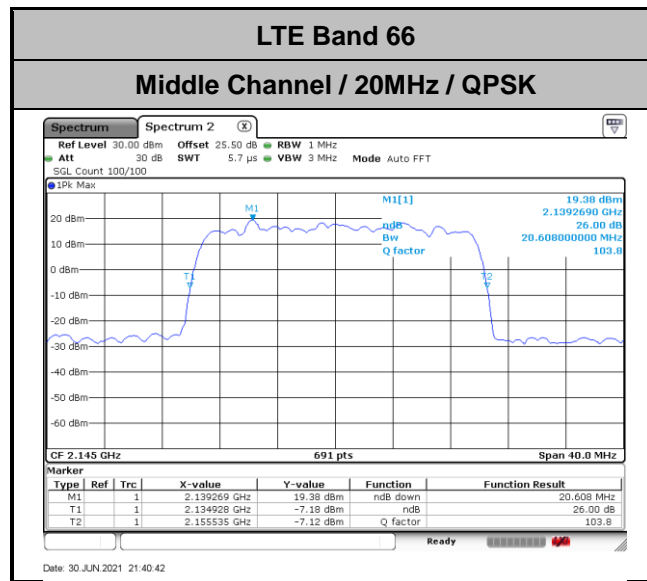
Mode	LTE Band 66 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	7.77	PASS





26dB Bandwidth

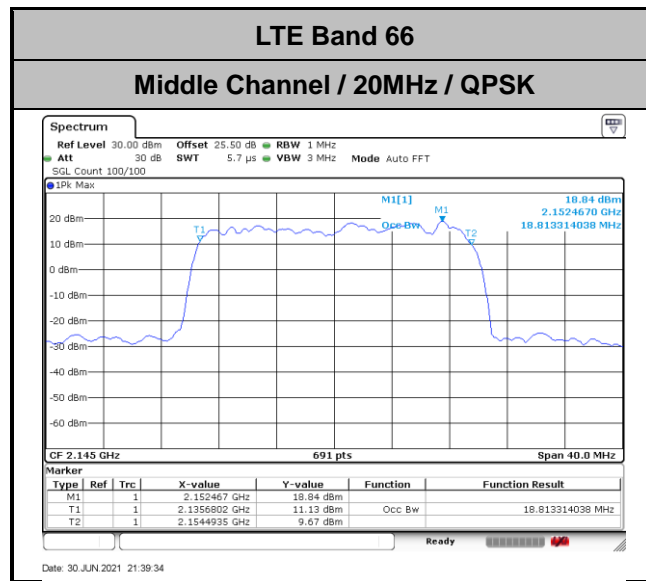
Mode	LTE Band 66 : 26dB BW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	20.61





Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)
BW	20MHz
Mod.	QPSK
Middle CH	18.81





Conducted Band Edge

