



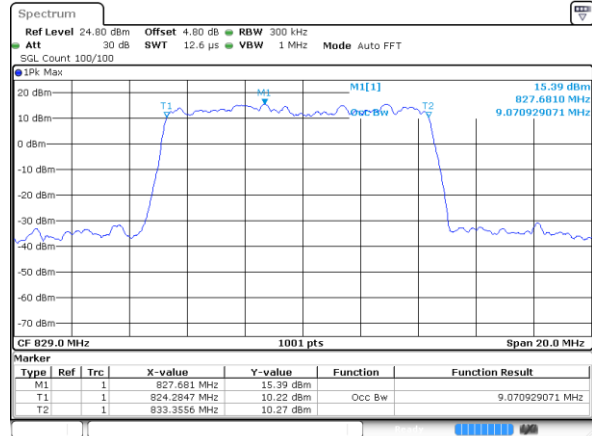
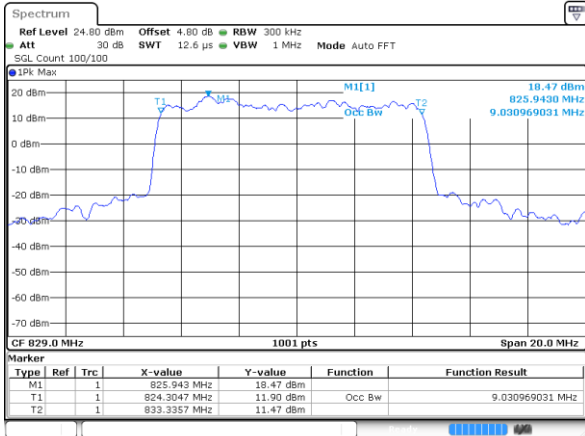
5G NR n5+2A / 10MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

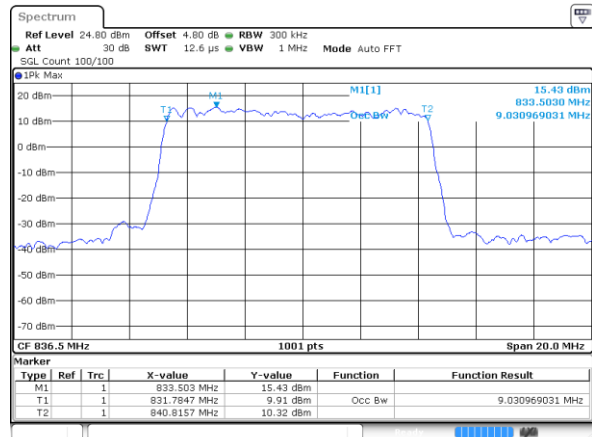
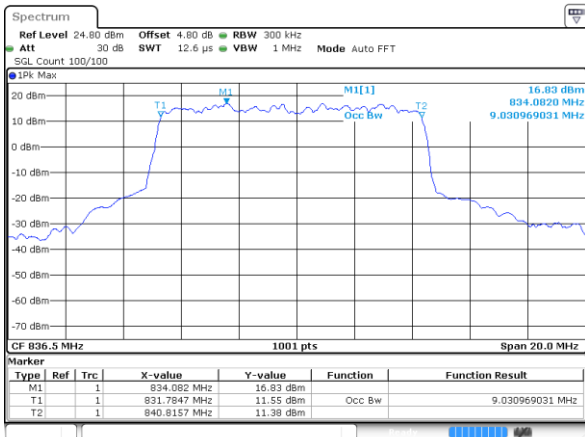


Date: 3 SEP 2020 15:03:35

Date: 3 SEP 2020 15:04:41

Middle Channel

Middle Channel

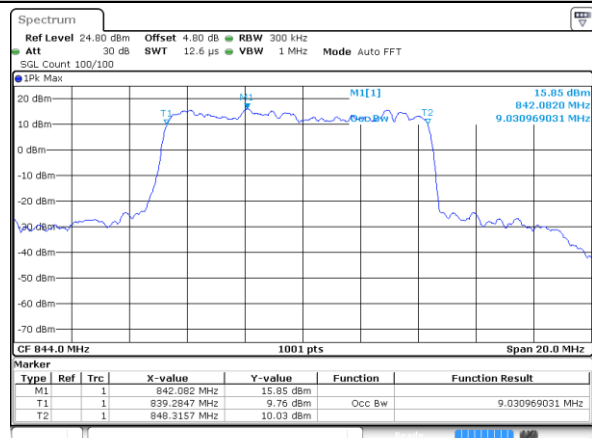
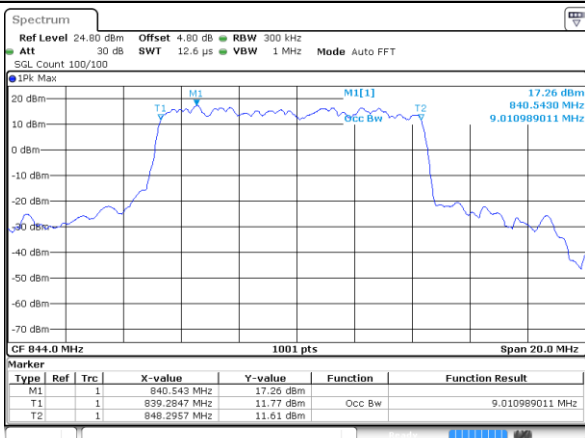


Date: 3 SEP 2020 15:37:06

Date: 3 SEP 2020 15:36:45

Highest Channel

Highest Channel



Date: 3 SEP 2020 15:43:10

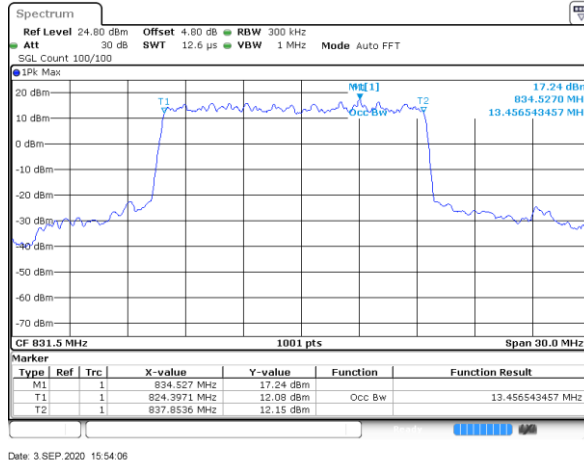
Date: 3 SEP 2020 15:44:08



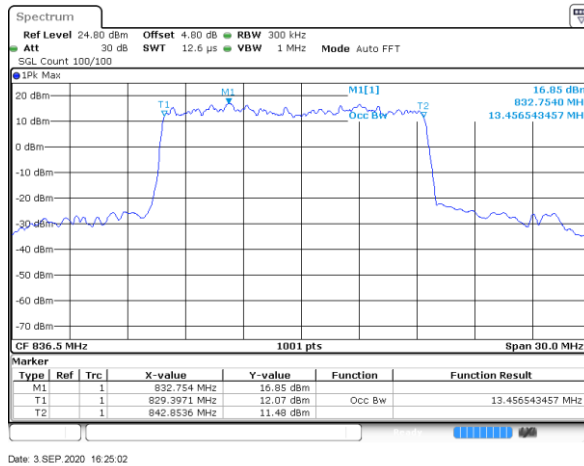
5G NR n5+2A / 15MHz / DFT-S OFDM

PI/2 BPSK

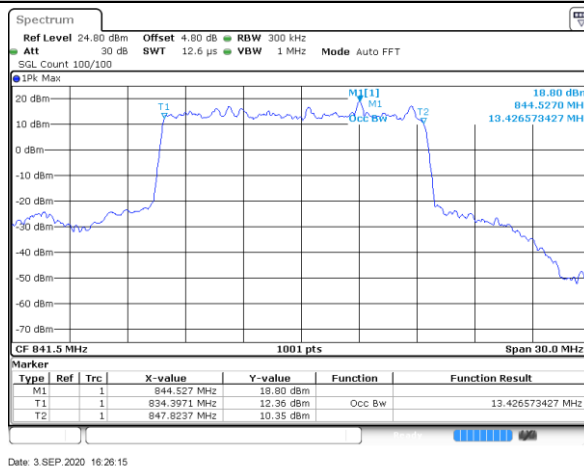
Lowest Channel



Middle Channel



Highest Channel





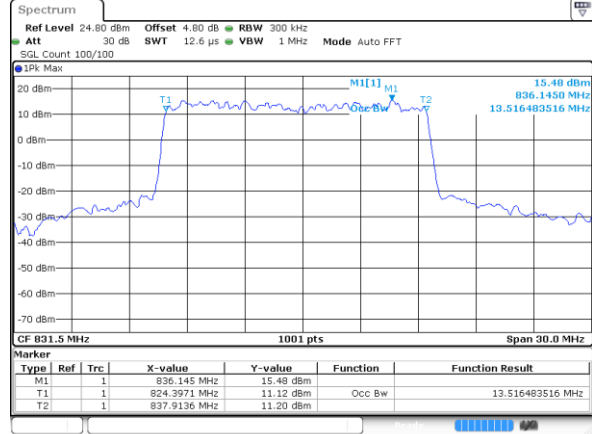
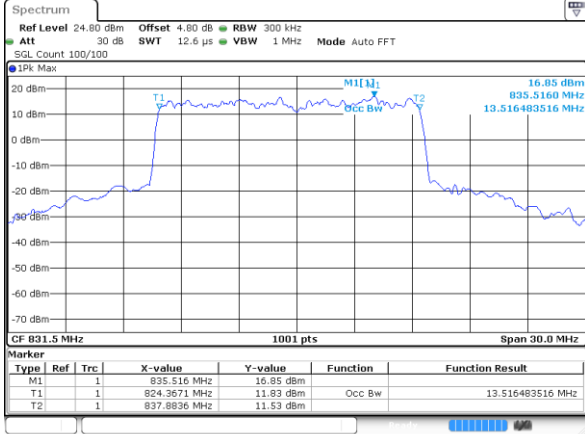
5G NR n5+2A / 15MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

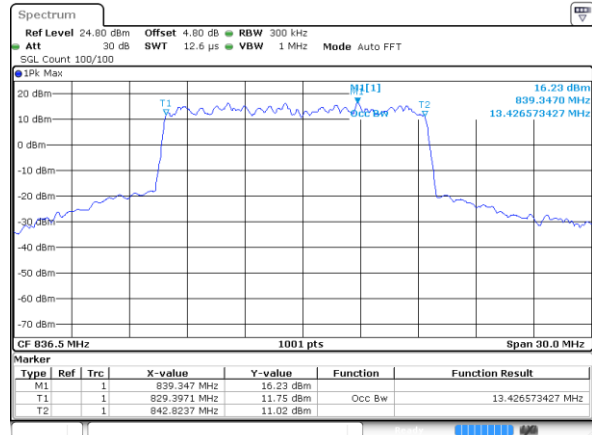
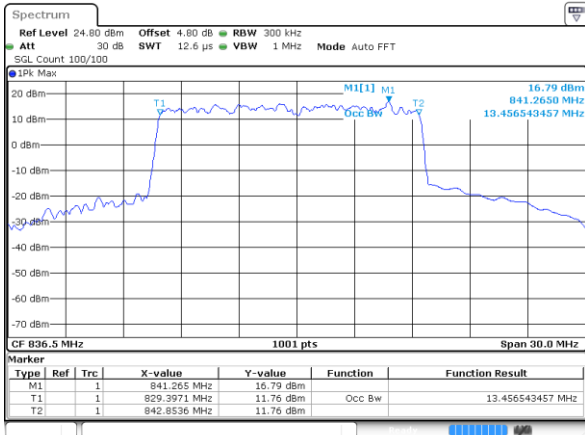


Date: 3 SEP 2020 15:55:17

Date: 3 SEP 2020 15:56:03

Middle Channel

Middle Channel

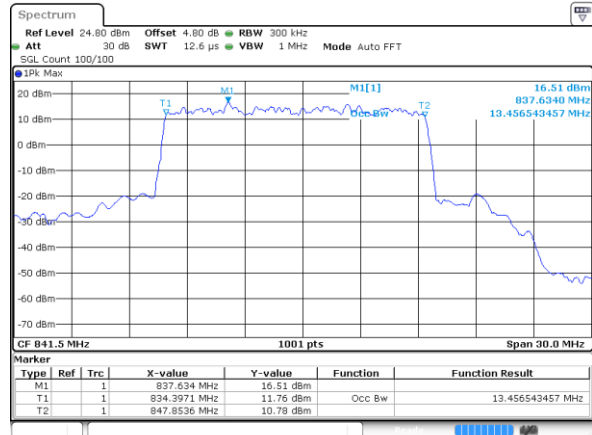
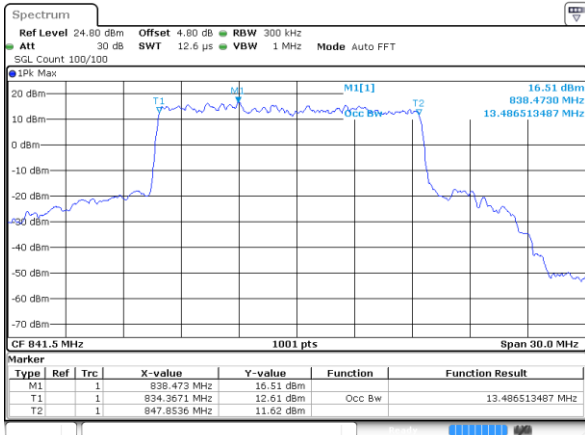


Date: 3 SEP 2020 16:24:34

Date: 3 SEP 2020 16:24:15

Highest Channel

Highest Channel



Date: 3 SEP 2020 16:27:11

Date: 3 SEP 2020 16:28:07



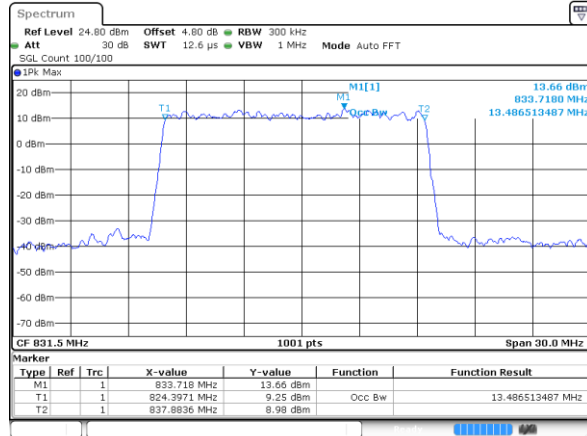
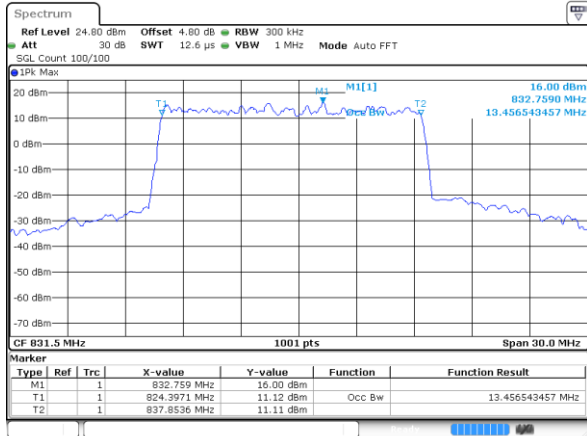
5G NR n5+2A / 15MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

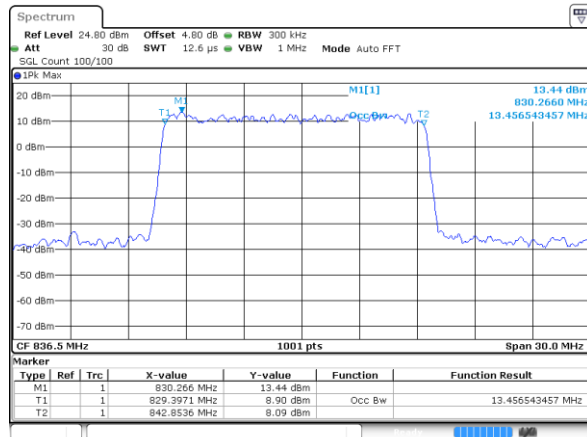
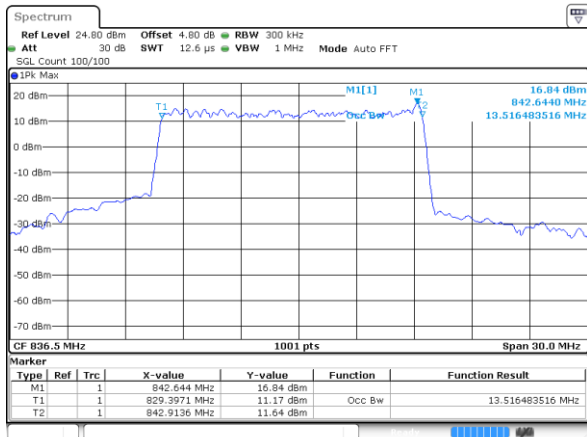


Date: 3 SEP 2020 15:56:49

Date: 3 SEP 2020 15:56:51

Middle Channel

Middle Channel

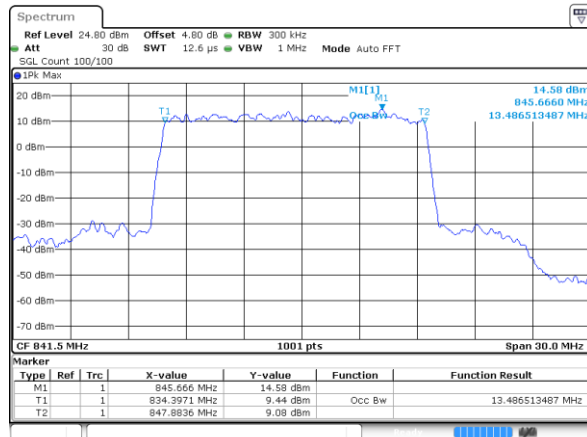
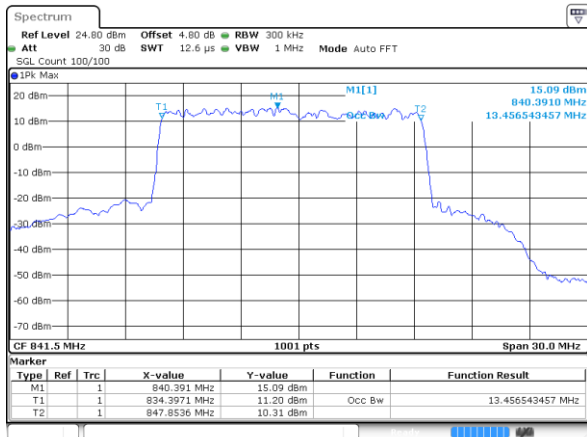


Date: 3 SEP 2020 16:23:56

Date: 3 SEP 2020 16:23:37

Highest Channel

Highest Channel



Date: 3 SEP 2020 16:28:58

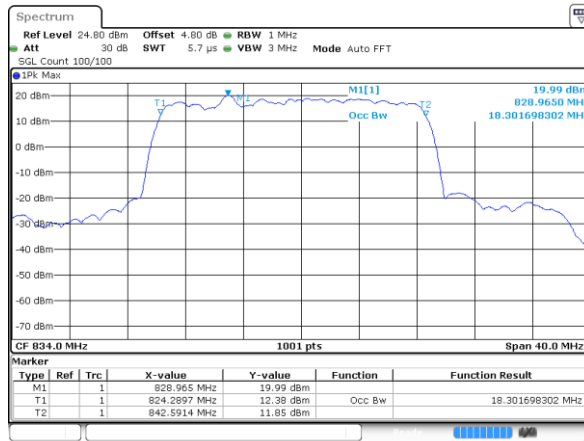
Date: 3 SEP 2020 16:29:55



5G NR n5+2A / 20MHz / DFT-S OFDM

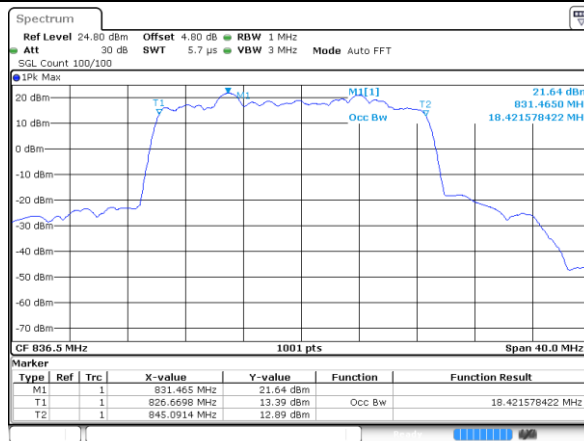
PI/2 BPSK

Lowest Channel



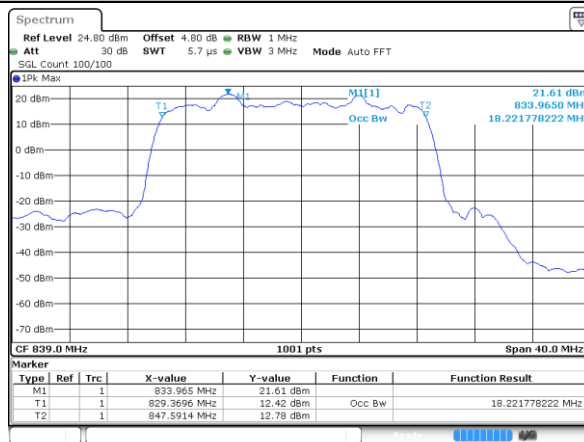
Date: 3 SEP. 2020 16:51:05

Middle Channel



Date: 3 SEP. 2020 17:10:44

Highest Channel



Date: 3 SEP. 2020 17:11:36



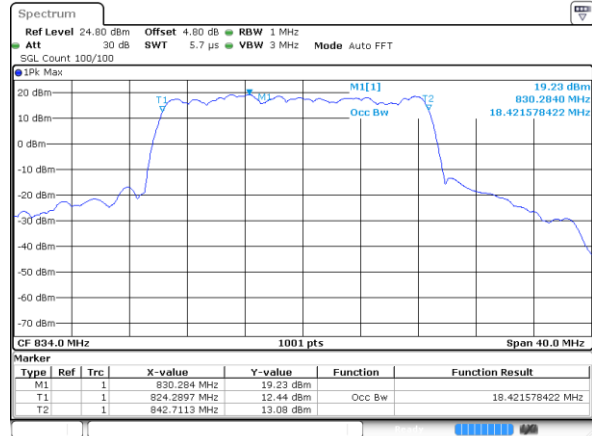
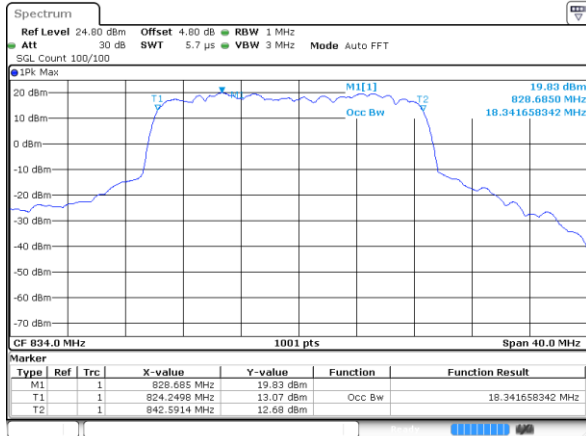
5G NR n5+2A / 20MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

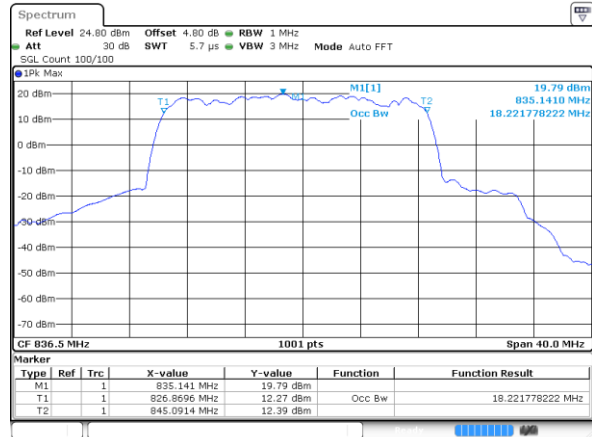
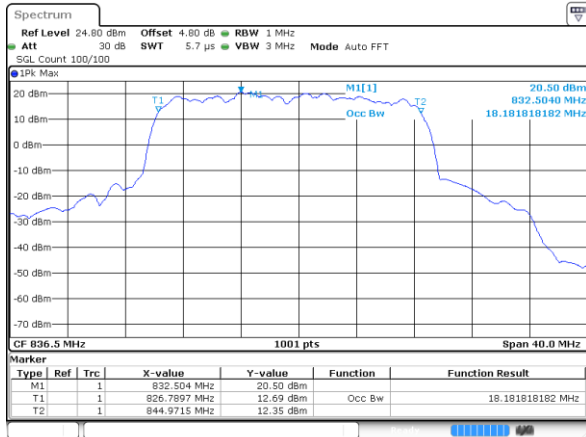


Date: 3 SEP 2020 16:52:09

Date: 3 SEP 2020 16:53:06

Middle Channel

Middle Channel

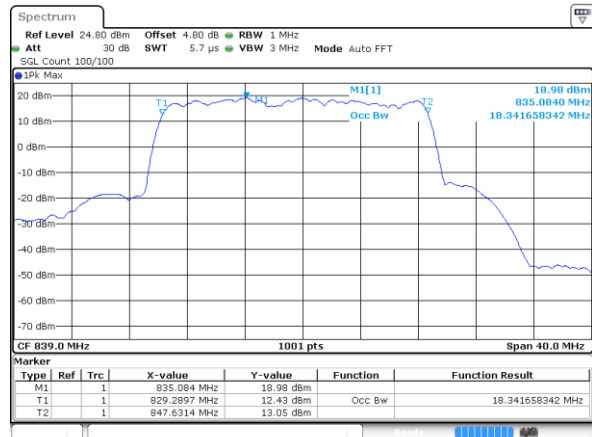
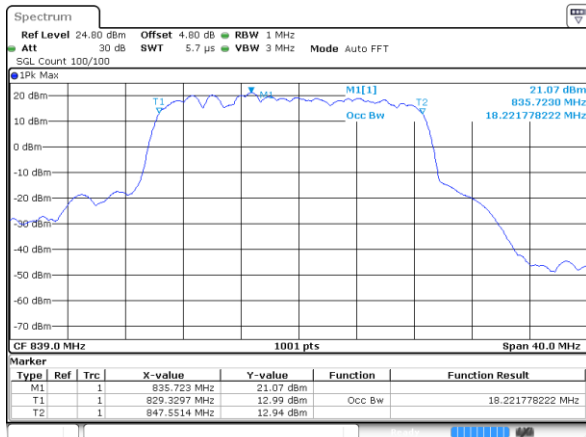


Date: 3 SEP 2020 17:10:11

Date: 3 SEP 2020 17:09:43

Highest Channel

Highest Channel



Date: 3 SEP 2020 17:13:27

Date: 3 SEP 2020 17:14:29



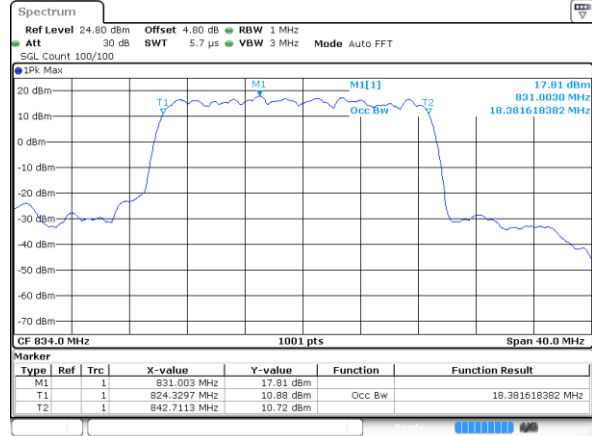
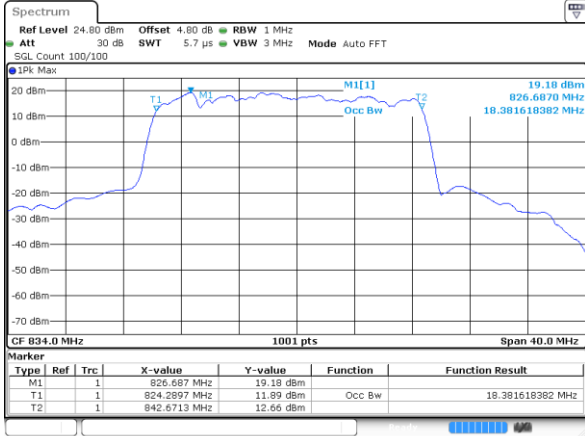
5G NR n5+2A / 20MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

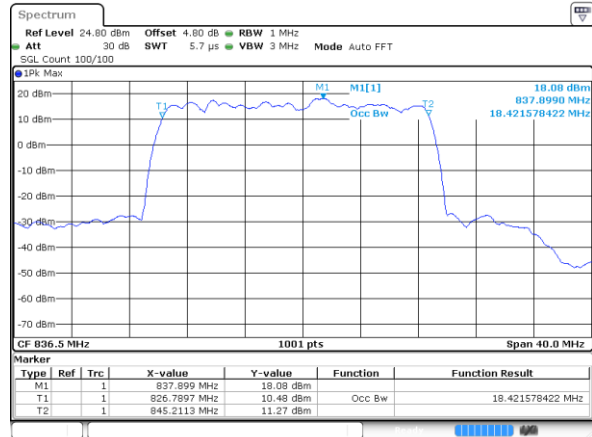
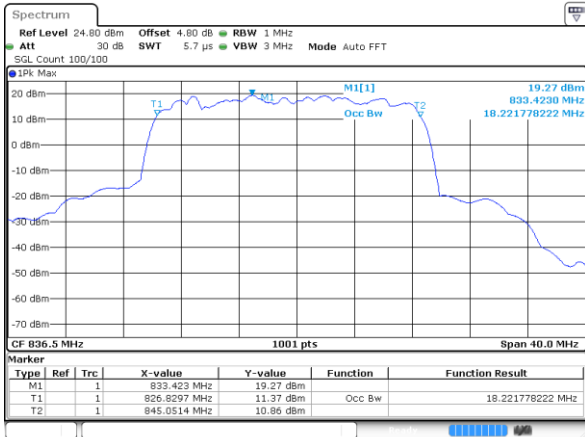


Date: 3 SEP 2020 16:54:25

Date: 3 SEP 2020 16:55:22

Middle Channel

Middle Channel

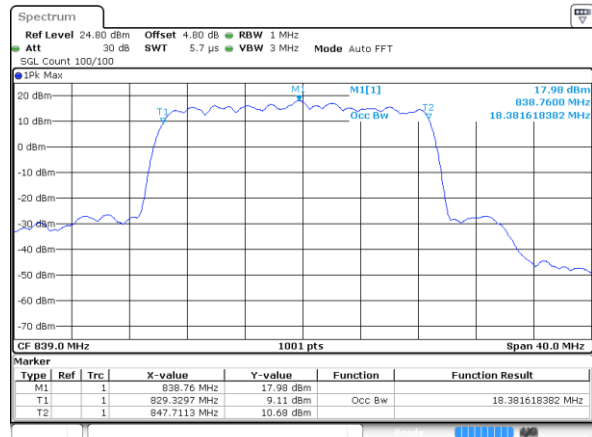
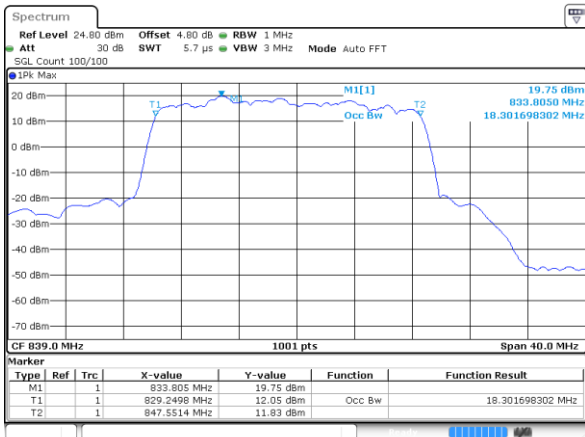


Date: 3 SEP 2020 17:09:16

Date: 3 SEP 2020 17:08:47

Highest Channel

Highest Channel



Date: 3 SEP 2020 17:15:34

Date: 3 SEP 2020 17:16:36

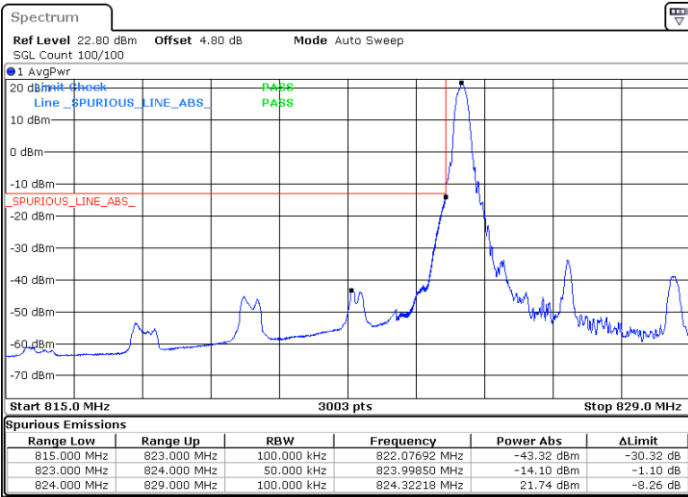


Conducted Band Edge

5G NR n5+2A / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



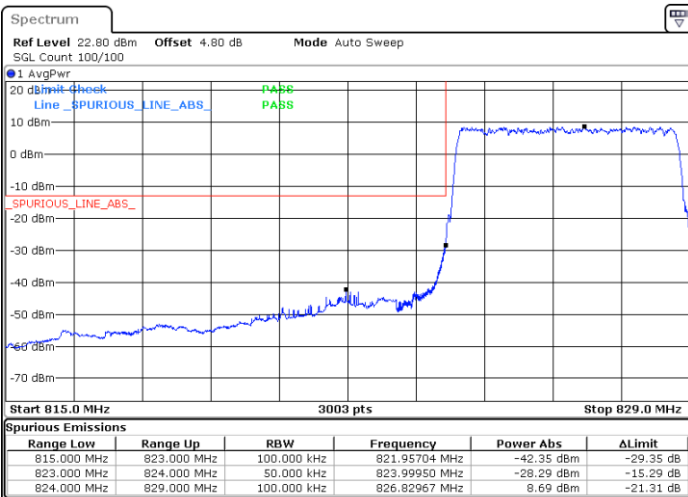
Date: 3 SEP.2020 14:32:21



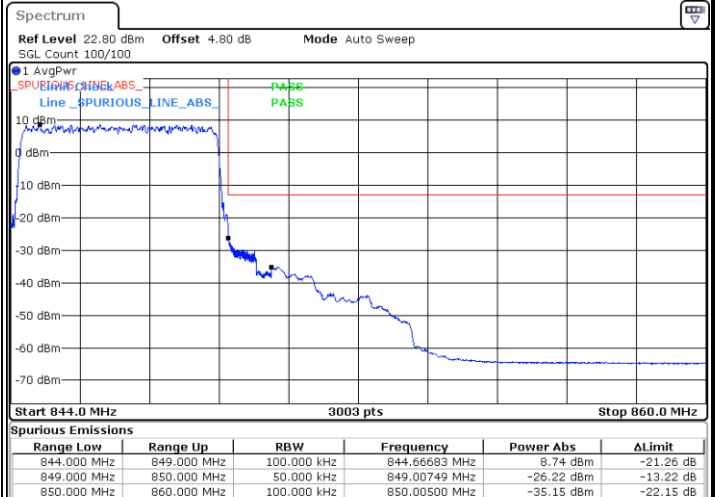
Date: 3 SEP.2020 14:16:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 14:25:26

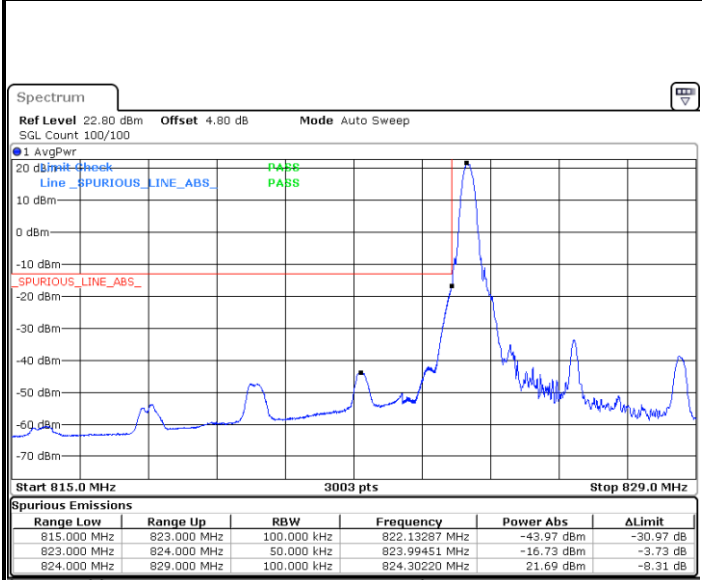


Date: 3 SEP.2020 14:24:22



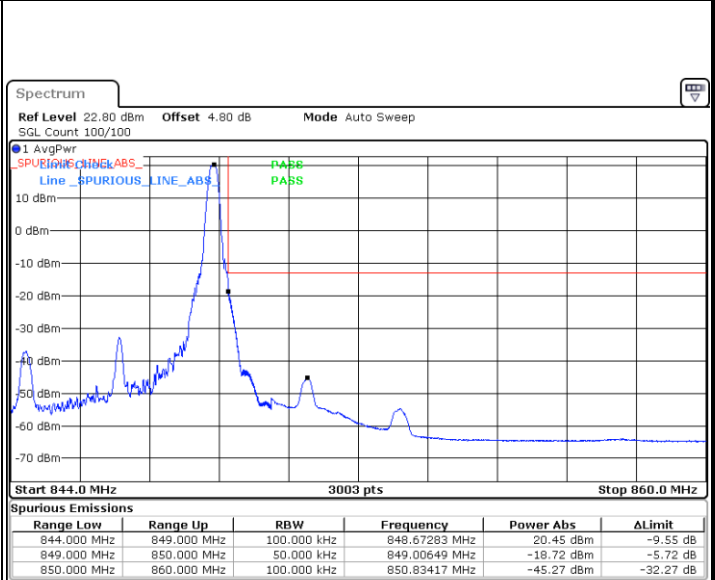
5G NR n5+2A / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



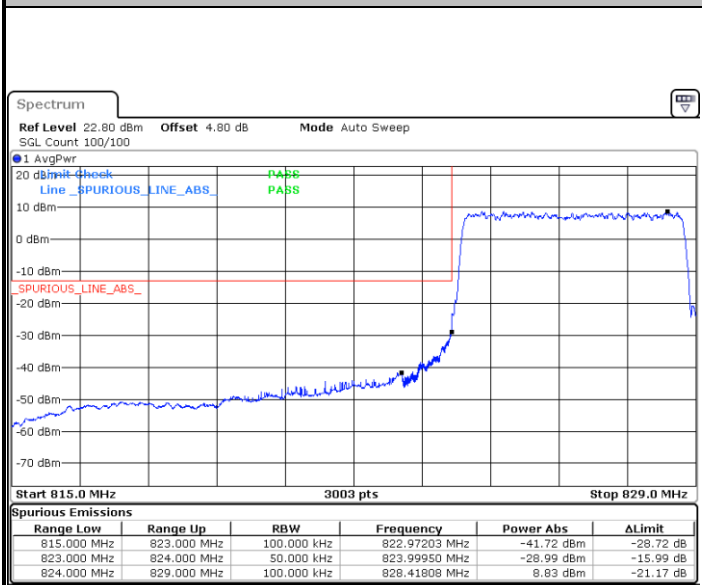
Date: 3 SEP.2020 14:31:34

Highest Band Edge / 1RBMAX



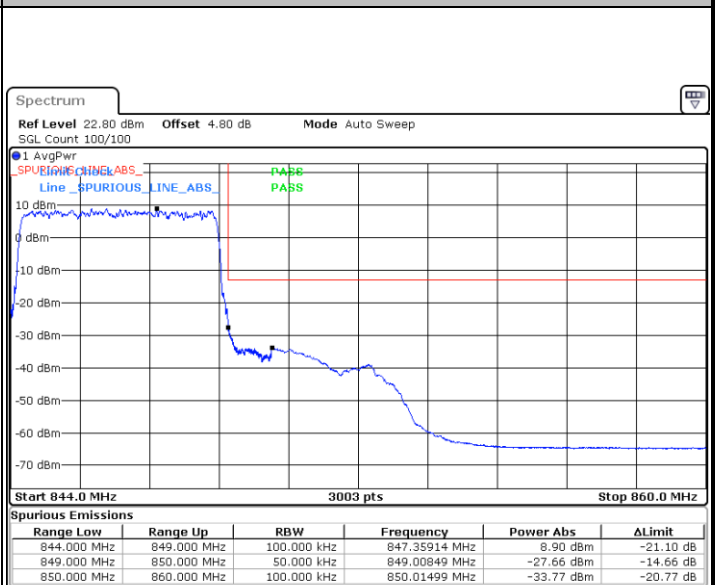
Date: 3 SEP.2020 14:17:43

Lowest Band Edge / Full RB



Date: 3 SEP.2020 14:26:12

Highest Band Edge / Full RB

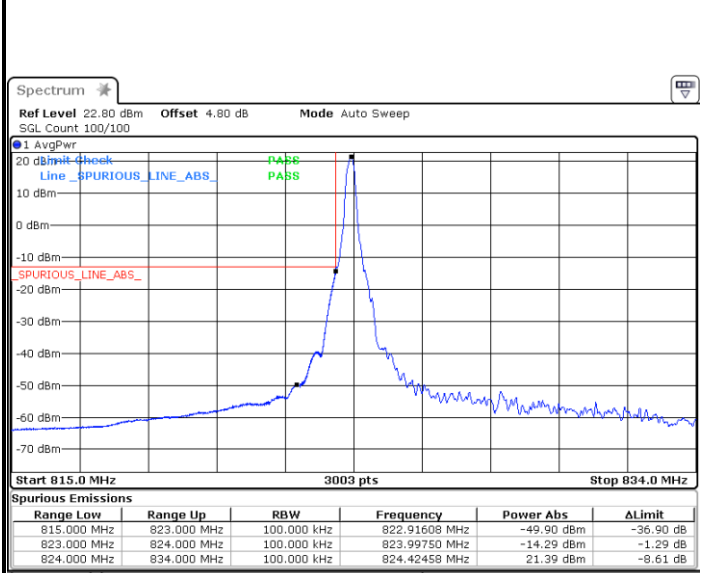


Date: 3 SEP.2020 14:23:27



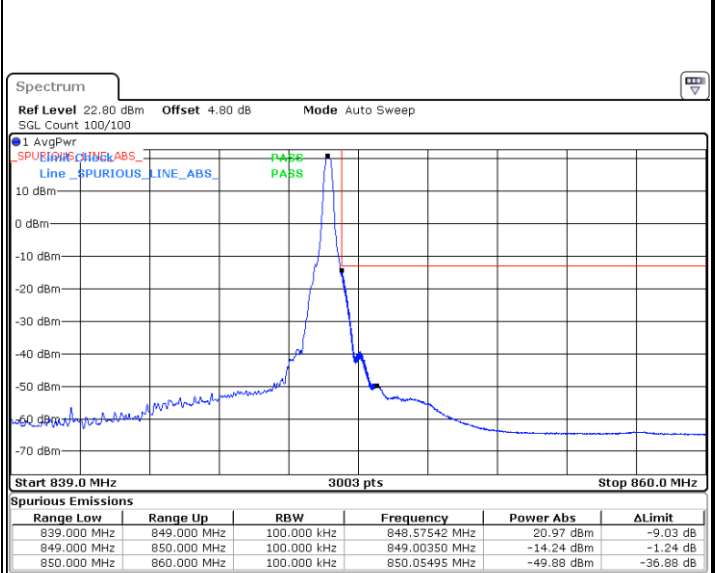
5G NR n5+2A / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0



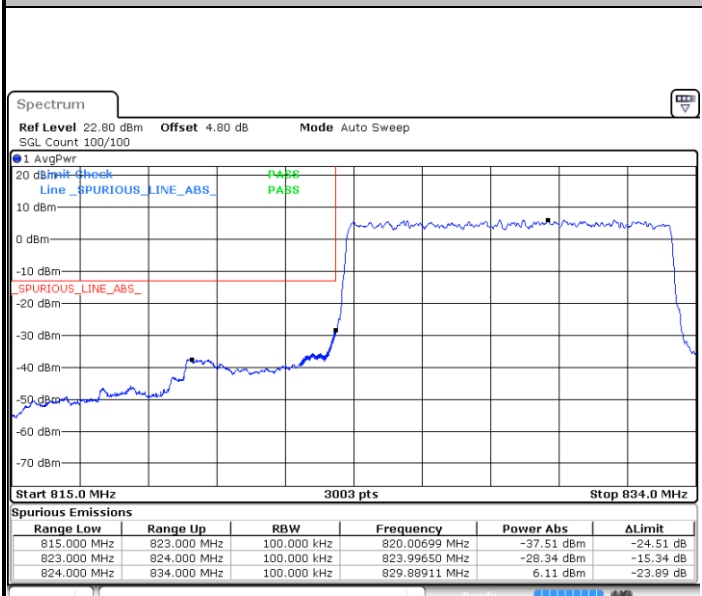
Date: 3 SEP.2020 15:18:51

Highest Band Edge / 1RBMAX



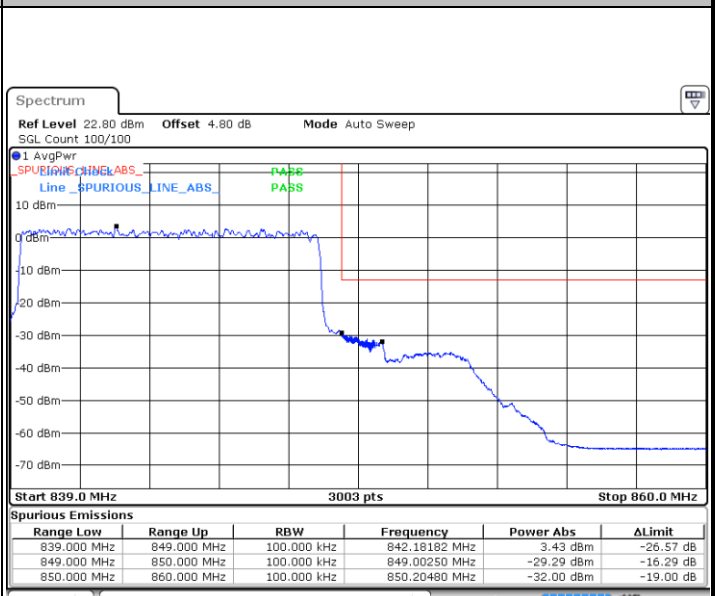
Date: 3 SEP.2020 15:48:44

Lowest Band Edge / Full RB



Date: 3 SEP.2020 15:01:36

Highest Band Edge / Full RB



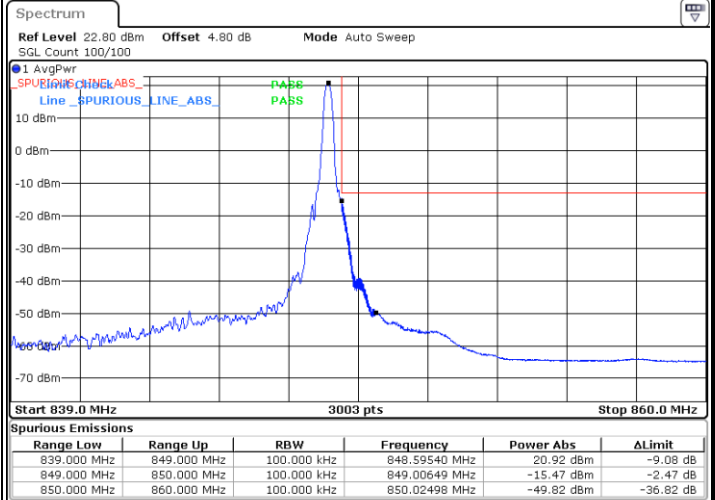
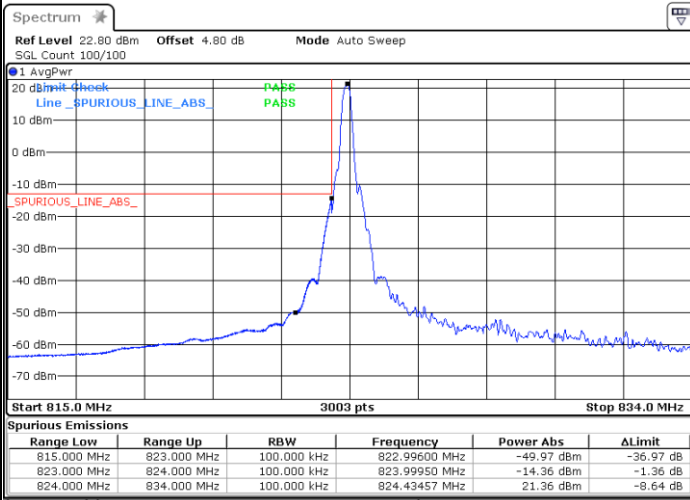
Date: 3 SEP.2020 15:40:47



5G NR n5+2A / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

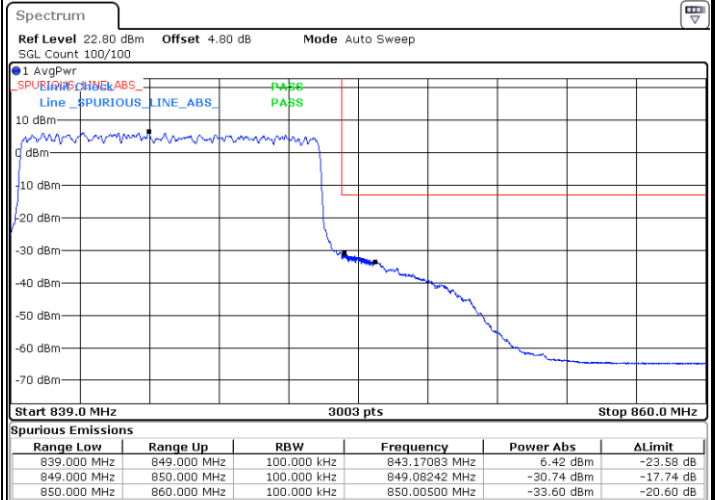
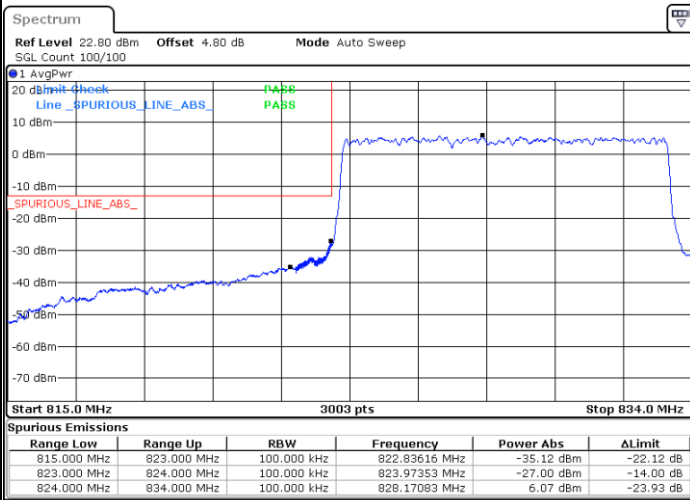


Date: 3 SEP.2020 15:21:38

Date: 3 SEP.2020 15:48:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 15:02:30

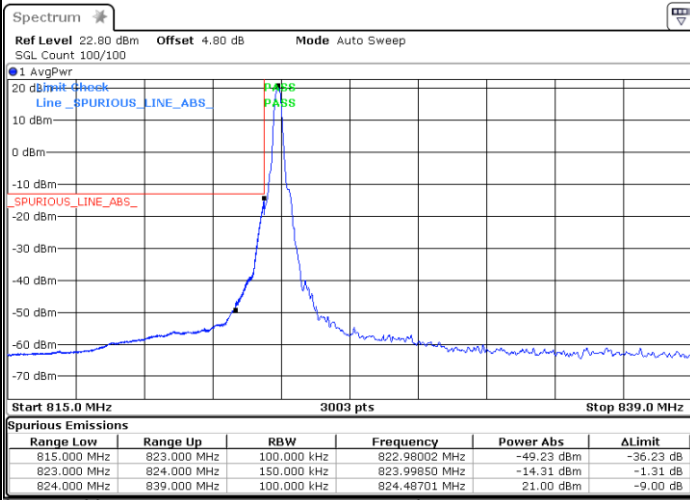
Date: 3 SEP.2020 15:41:42



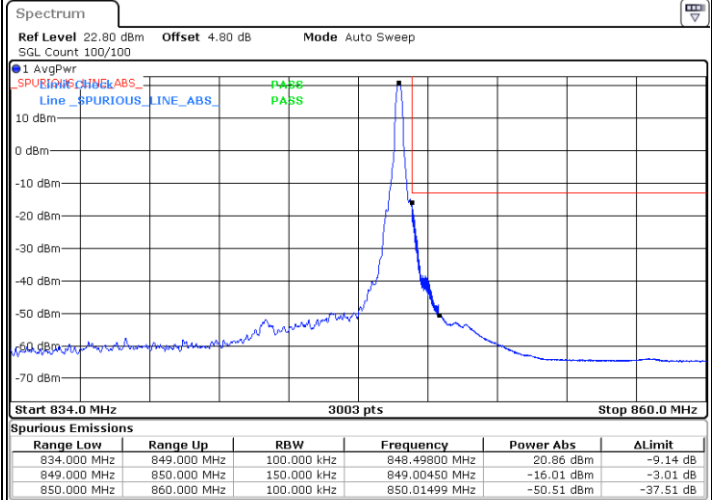
5G NR n5+2A / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



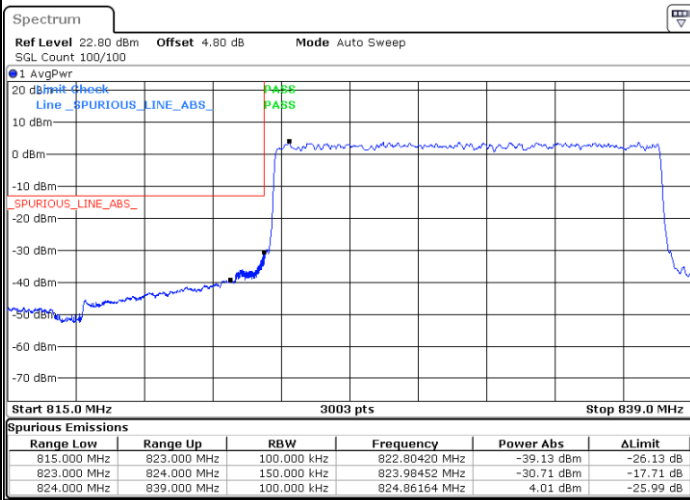
Date: 3 SEP.2020 16:07:56



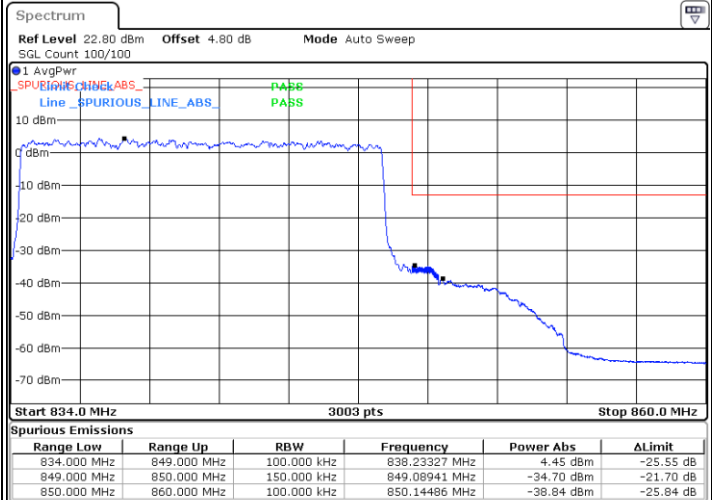
Date: 3 SEP.2020 16:34:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 15:54:40



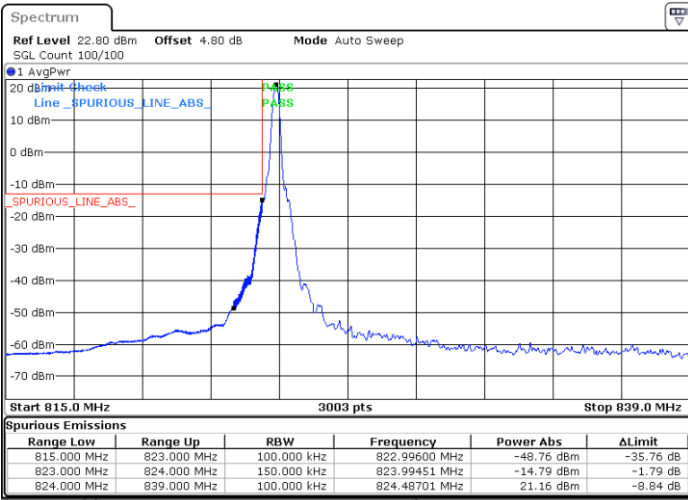
Date: 3 SEP.2020 16:26:54



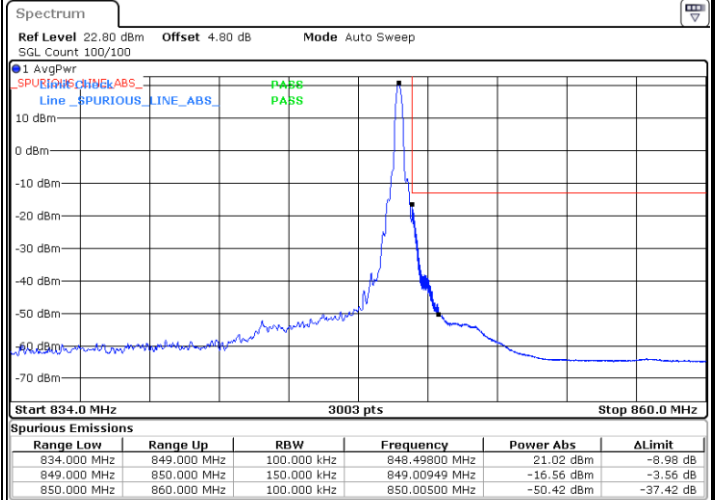
5G NR n5+2A / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



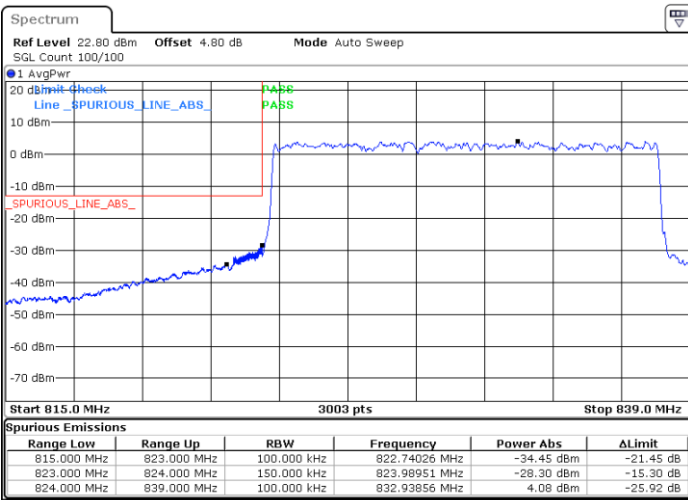
Date: 3 SEP.2020 16:09:49



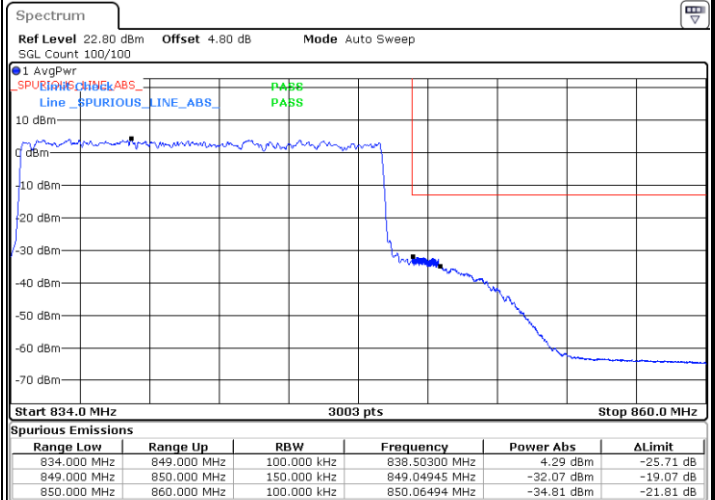
Date: 3 SEP.2020 16:33:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 15:55:50



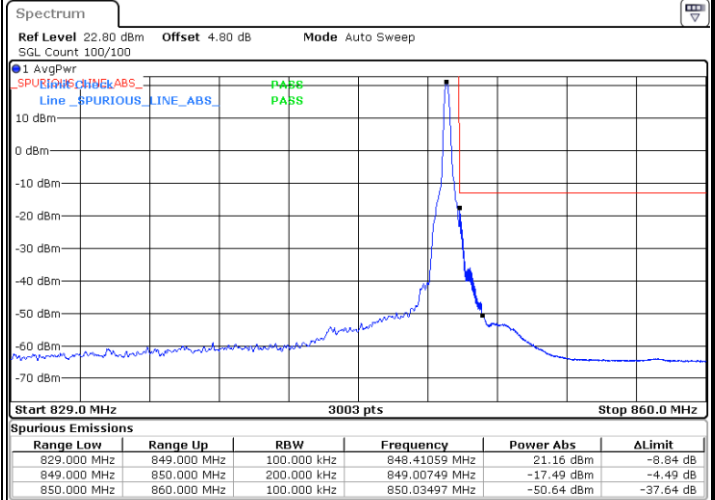
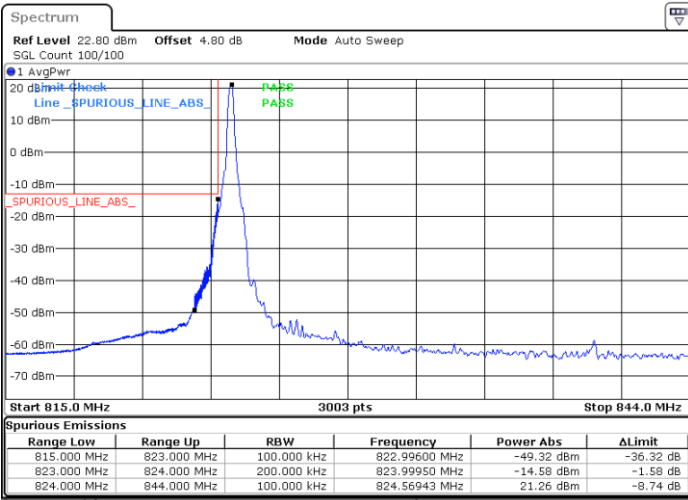
Date: 3 SEP.2020 16:27:55



5G NR n5+2A / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

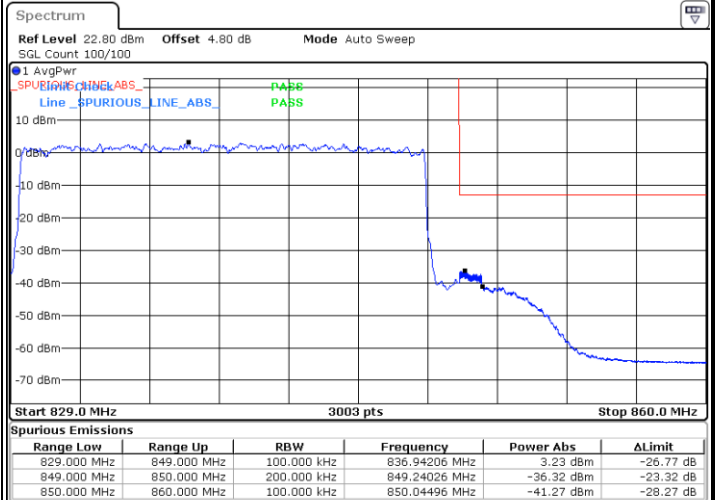
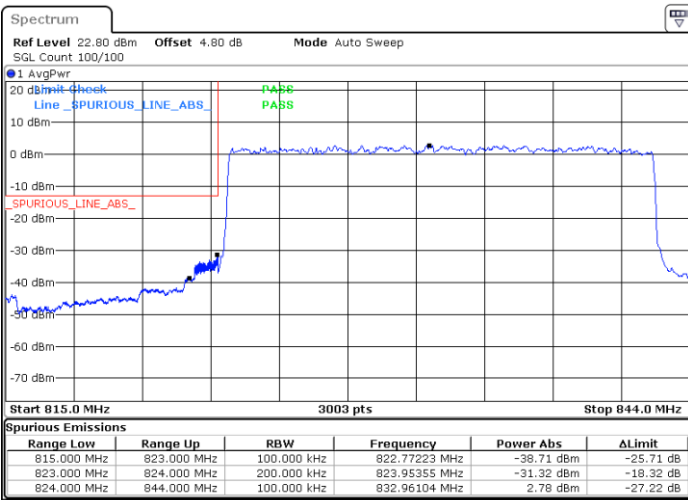


Date: 3 SEP.2020 17:04:15

Date: 3 SEP.2020 17:23:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3 SEP.2020 16:51:46

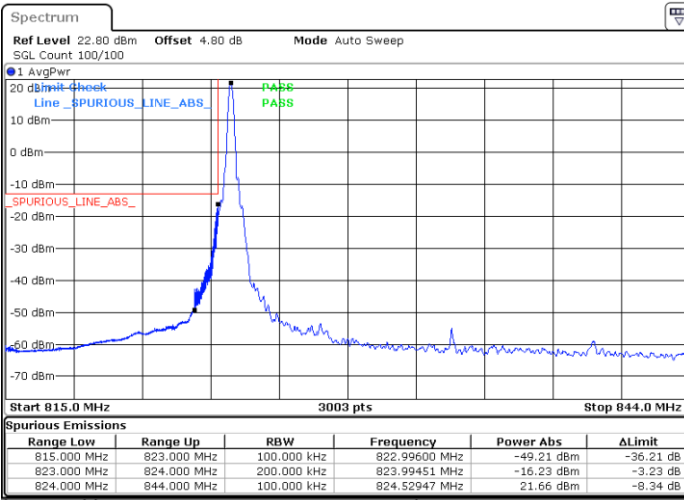
Date: 3 SEP.2020 17:12:57



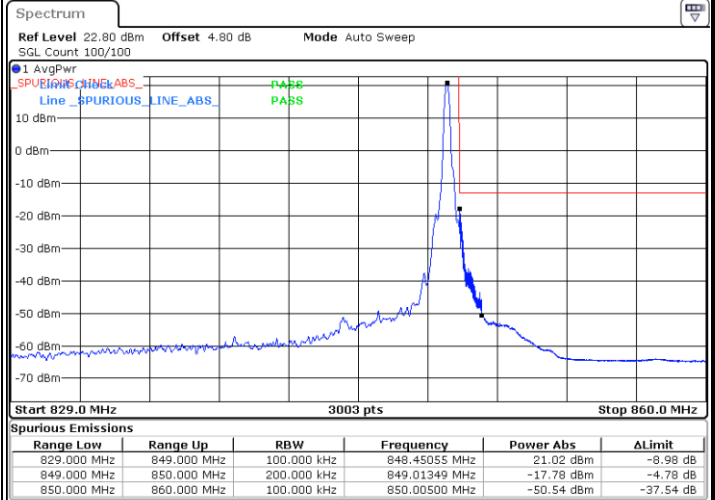
5G NR n5+2A / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



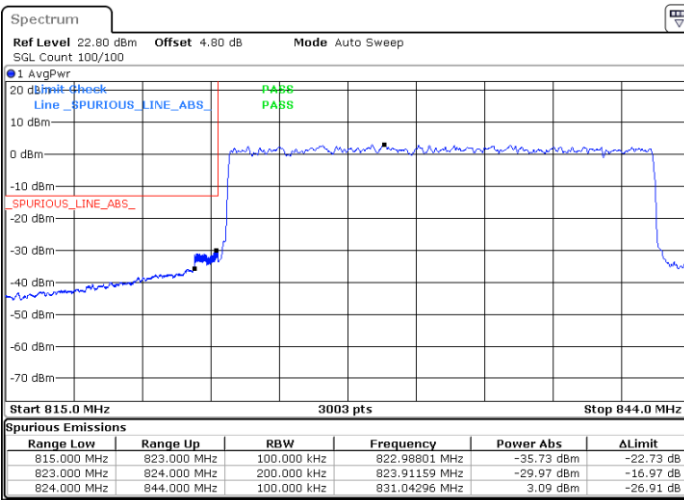
Date: 3 SEP.2020 17:03:02



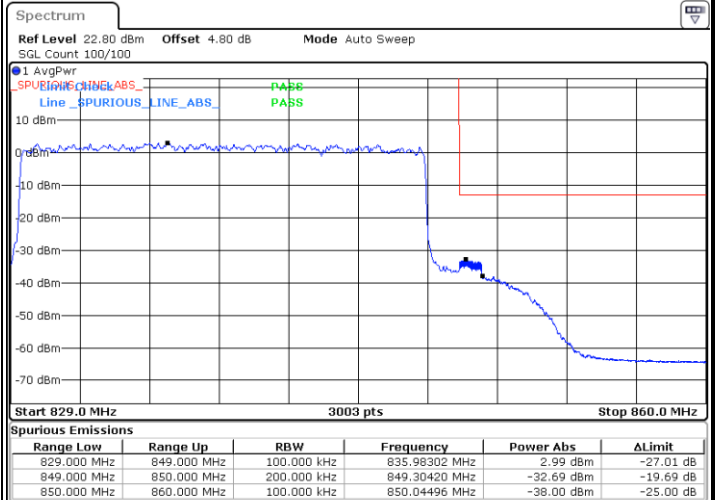
Date: 3 SEP.2020 17:22:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



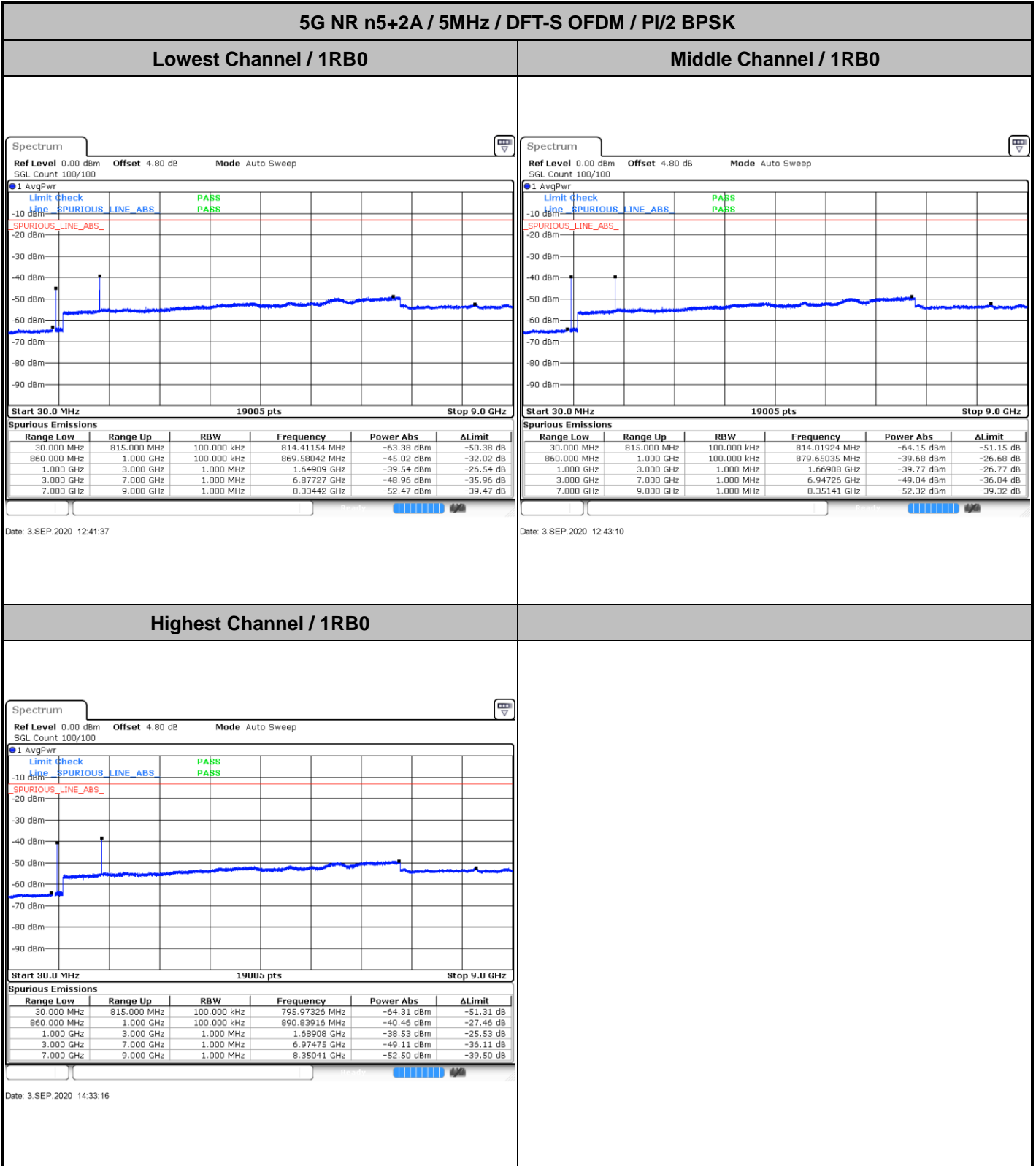
Date: 3 SEP.2020 16:52:42



Date: 3 SEP.2020 17:14:04



Conducted Spurious Emission

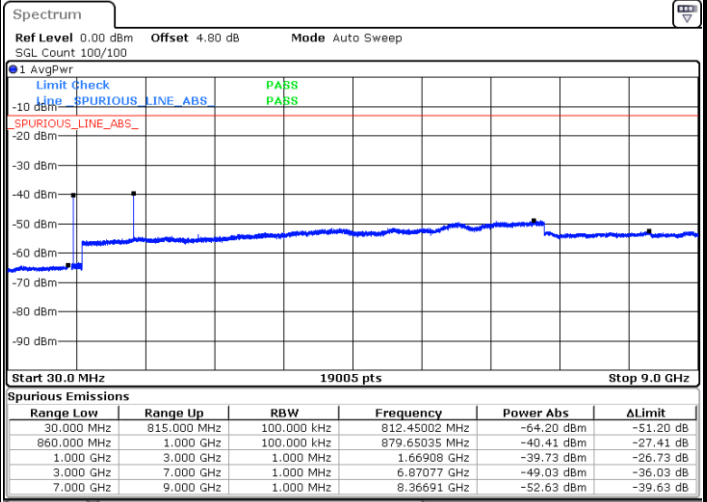
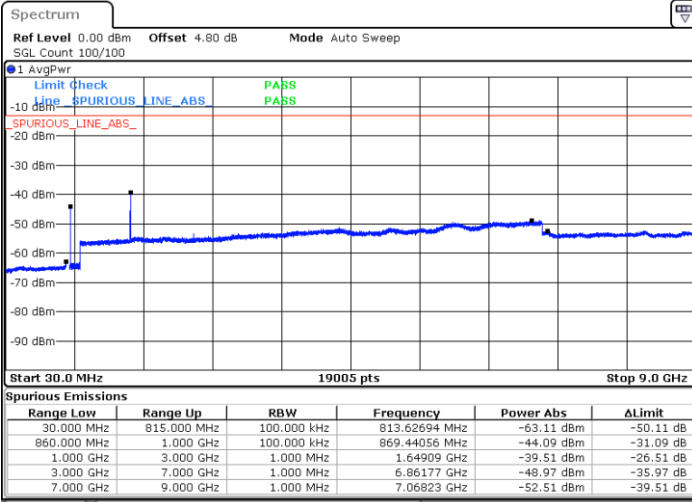




5G NR n5+2A / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

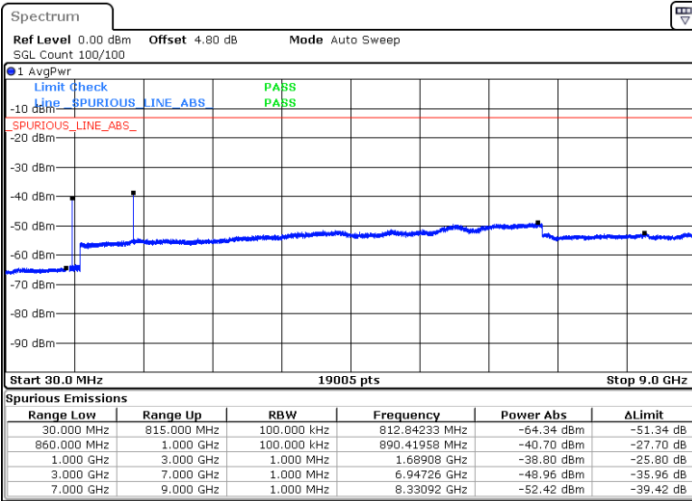
Middle Channel / 1RB0



Date: 3 SEP. 2020 12:39:40

Date: 3 SEP. 2020 12:43:51

Highest Channel / 1RB0

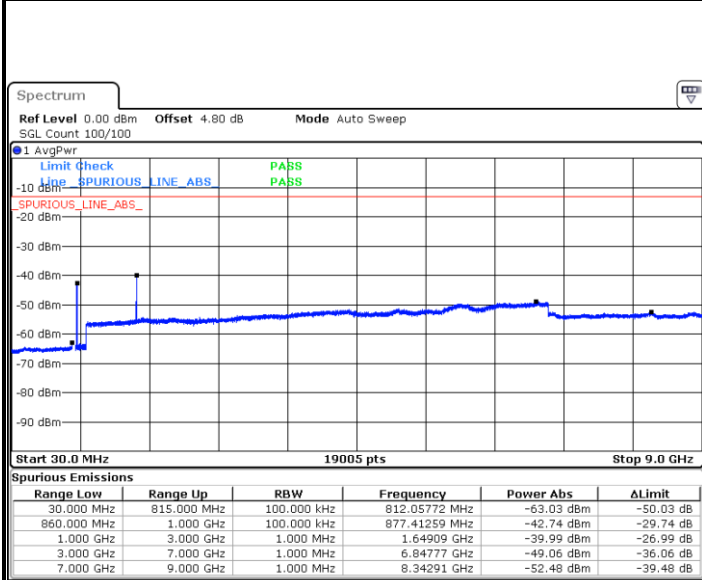


Date: 3 SEP. 2020 14:34:48



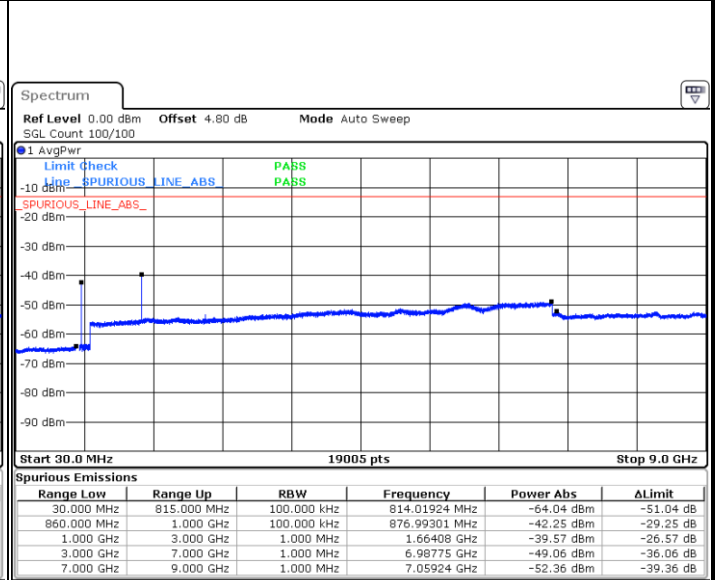
5G NR n5+2A / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB0



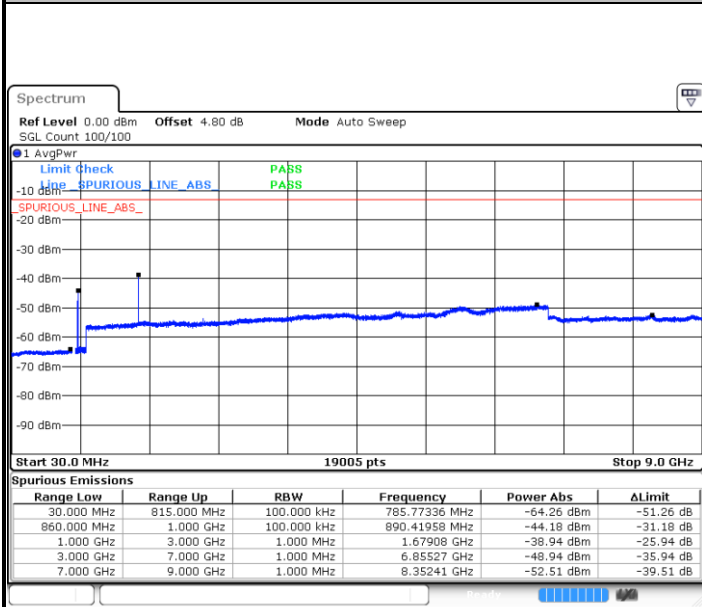
Date: 3 SEP. 2020 15:19:30

Middle Channel / 1RB0



Date: 3 SEP. 2020 15:33:24

Highest Channel / 1RB0



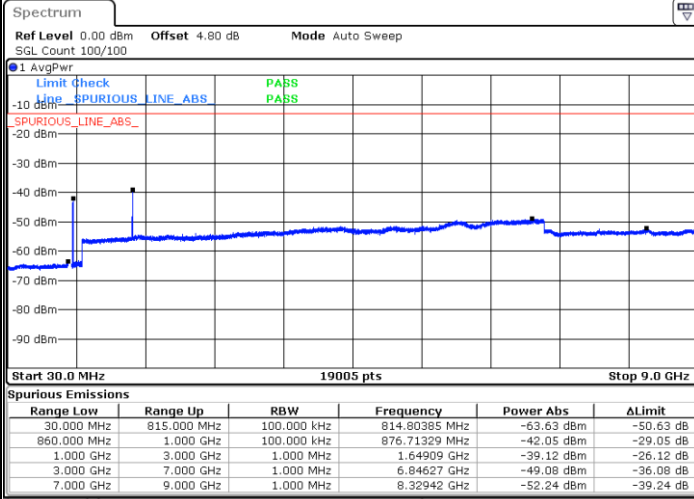
Date: 3 SEP. 2020 15:49:50



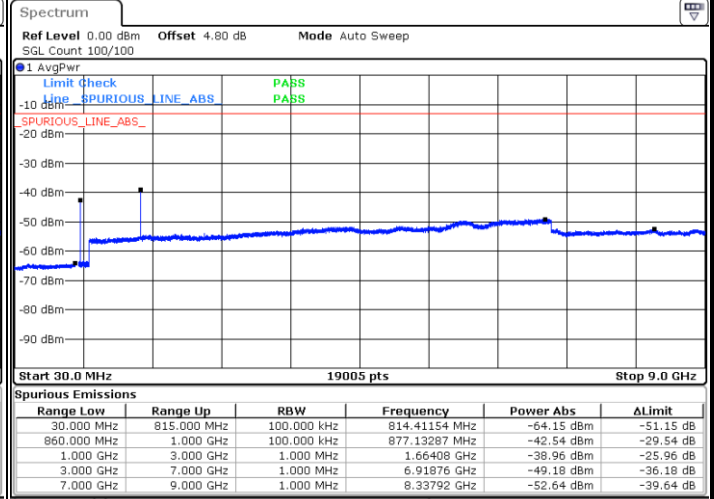
5G NR n5+2A / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

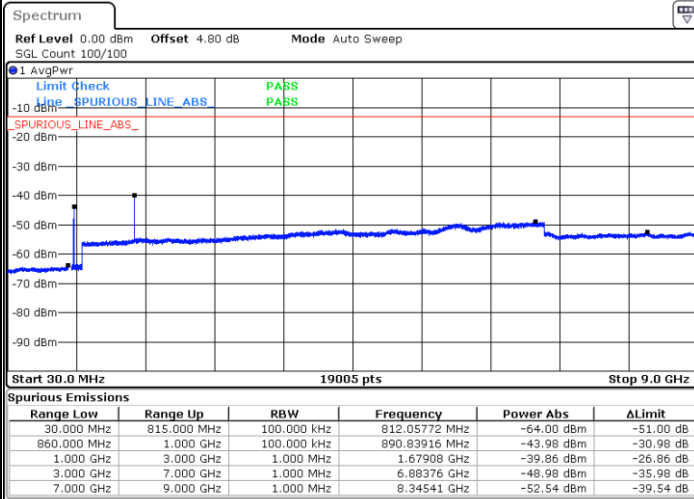


Date: 3 SEP.2020 15:22:02



Date: 3 SEP.2020 15:34:55

Highest Channel / 1RB0

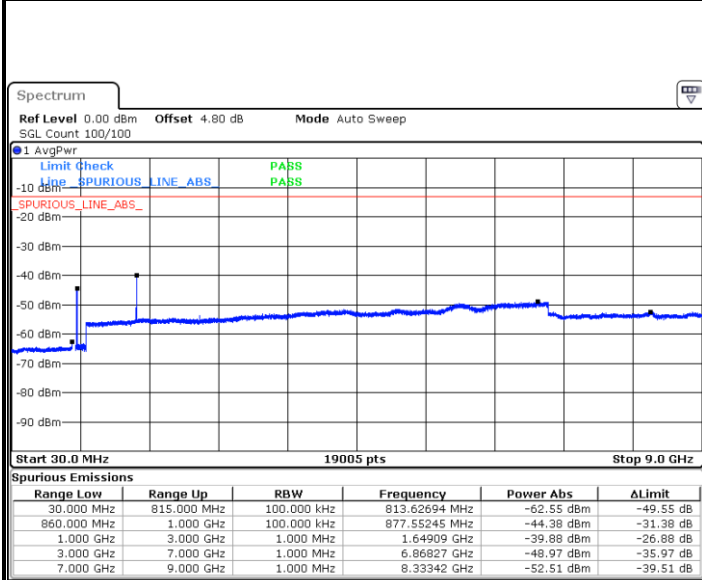


Date: 3 SEP.2020 15:50:58



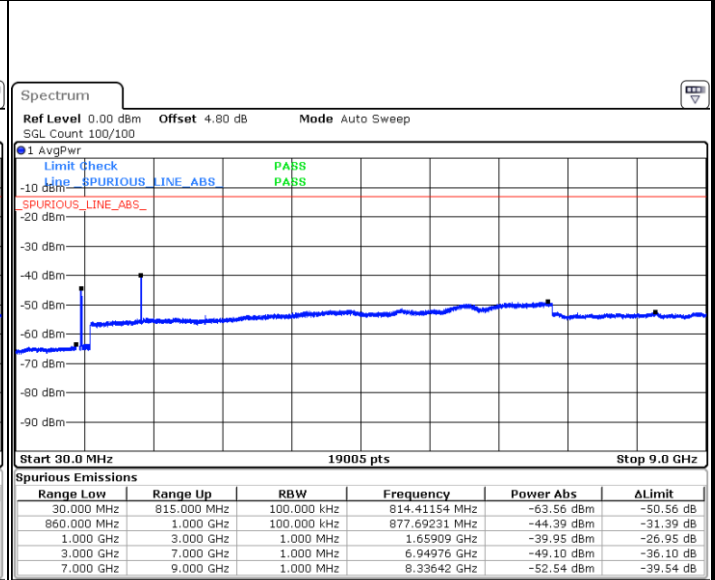
5G NR n5+2A / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB0



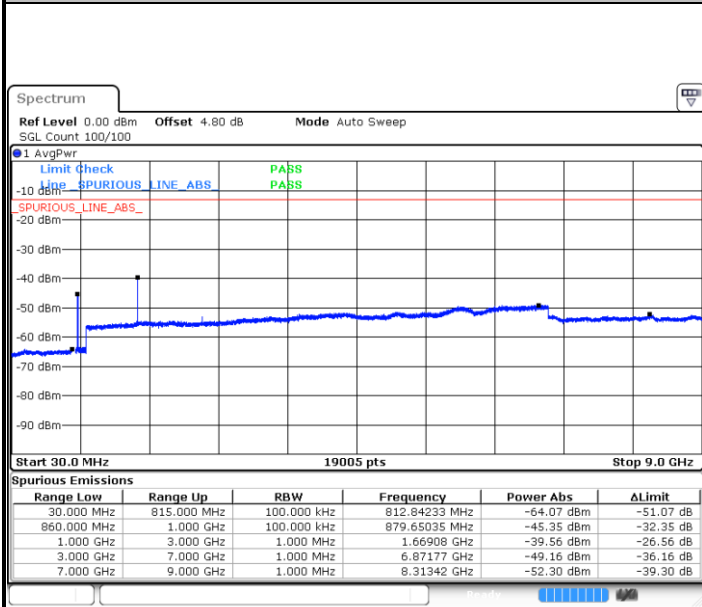
Date: 3 SEP.2020 16:08:19

Middle Channel / 1RB0



Date: 3 SEP.2020 16:21:28

Highest Channel / 1RB0



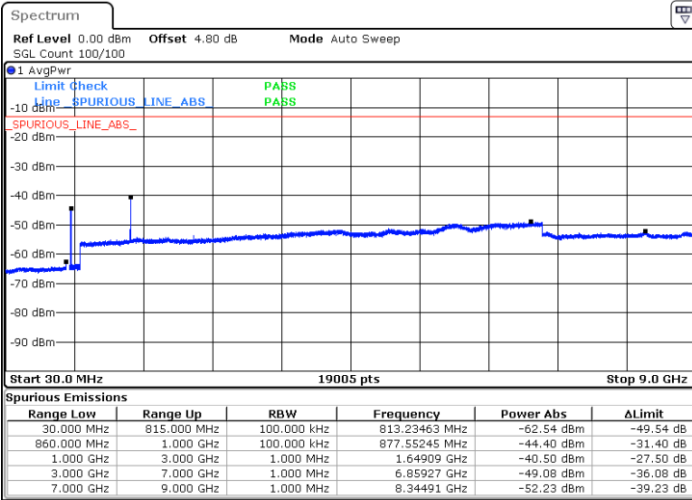
Date: 3 SEP.2020 16:35:15



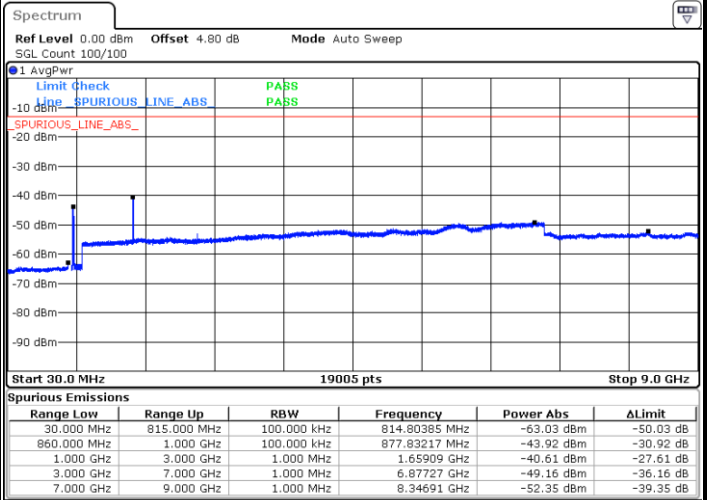
5G NR n5+2A / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

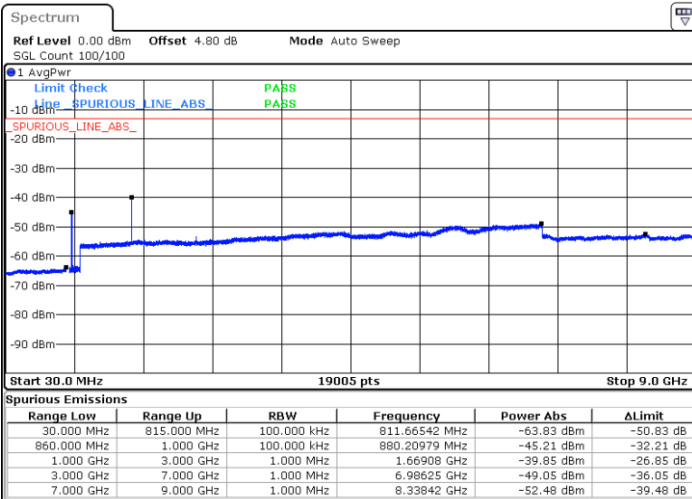


Date: 3 SEP.2020 16:10:20



Date: 3 SEP.2020 16:21:57

Highest Channel / 1RB0

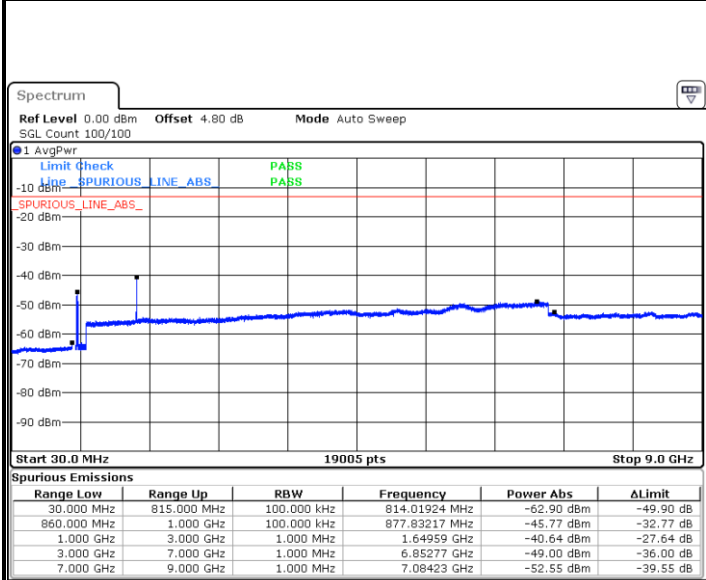


Date: 3 SEP.2020 16:36:38



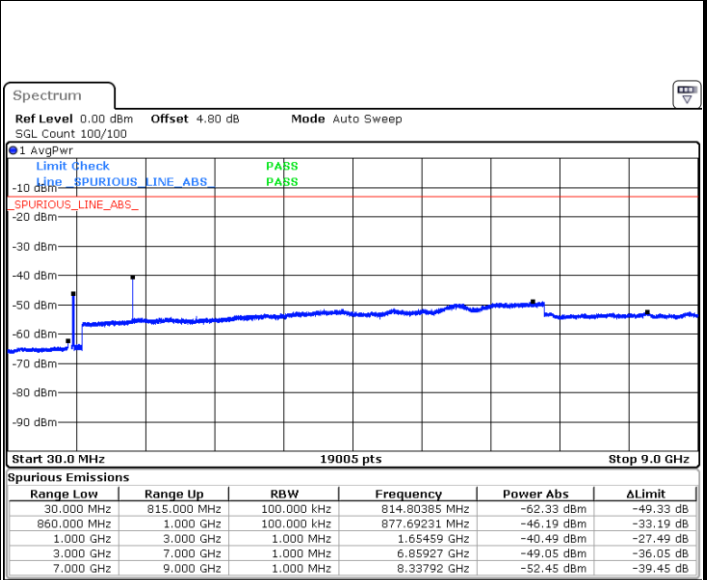
5G NR n5+2A / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB0



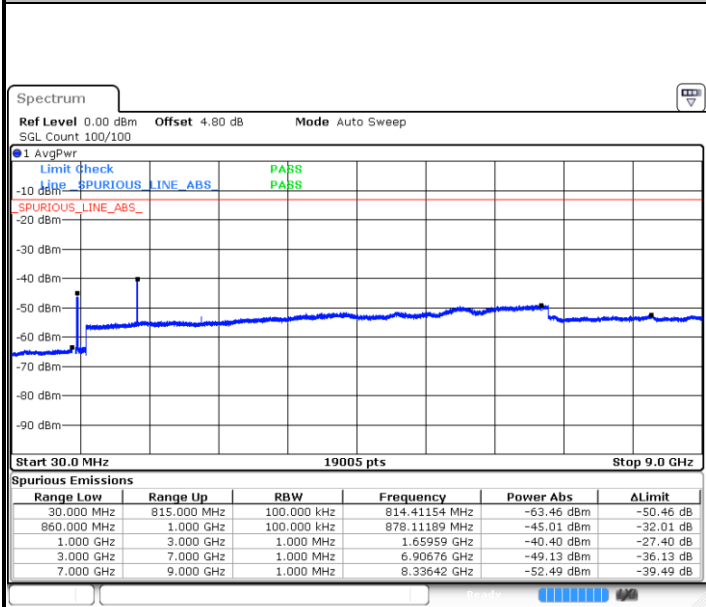
Date: 3 SEP.2020 17:04:42

Middle Channel / 1RB0



Date: 3 SEP.2020 17:05:30

Highest Channel / 1RB0



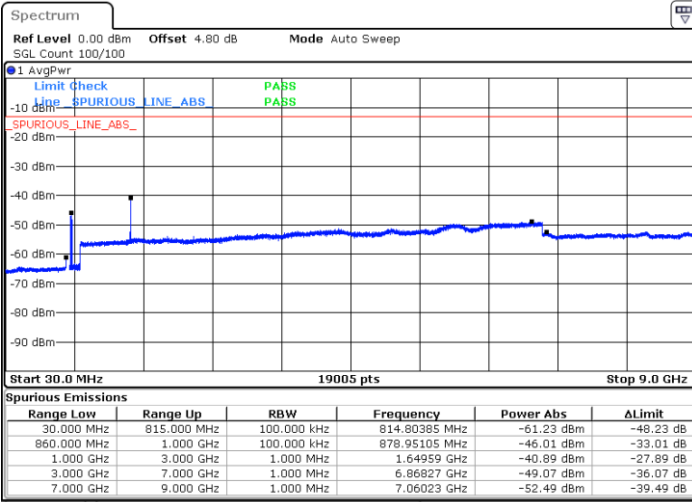
Date: 3 SEP.2020 17:24:32



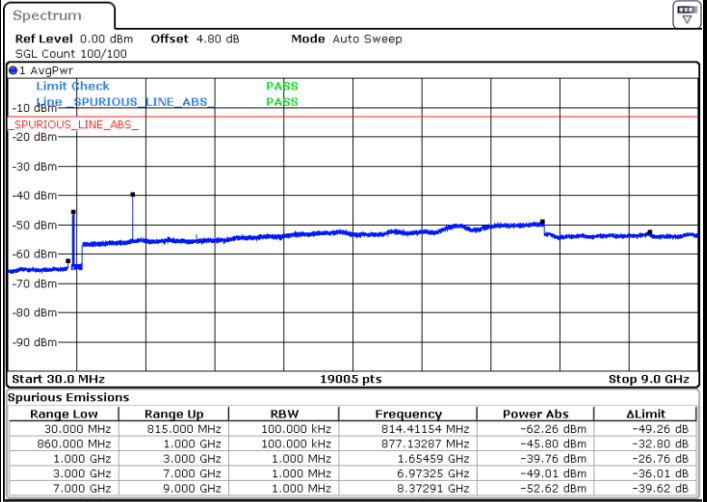
5G NR n5+2A / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

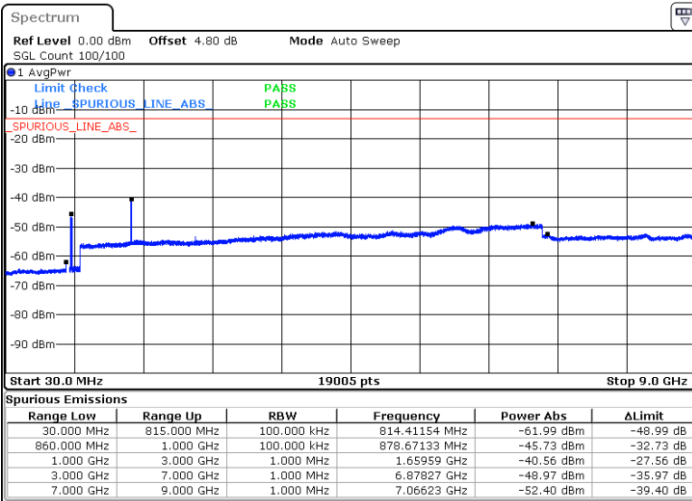


Date: 3 SEP.2020 17:03:22



Date: 3 SEP.2020 17:06:04

Highest Channel / 1RB0



Date: 3 SEP.2020 17:25:07



Frequency Stability

Test Conditions		5G NR n5+2A (PI/2BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0046	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0065	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0052	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0042	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.4 V..



5G NR n25

Peak-to-Average Ratio

Mode	5G NR n25 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Lowest CH	3.71	4.35	PASS
Middle CH	3.62	4.38	
Highest CH	6.43	4.52	
Mode	5G NR n25 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	1 RB0	1 RB0	Result
Lowest CH	4.23	3.91	PASS
Middle CH	4.23	3.94	
Highest CH	6.84	3.88	



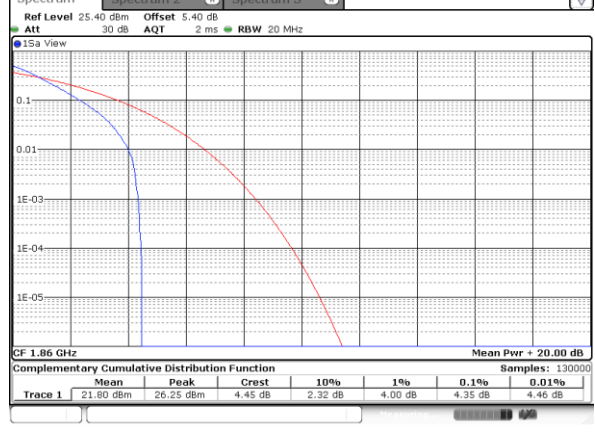
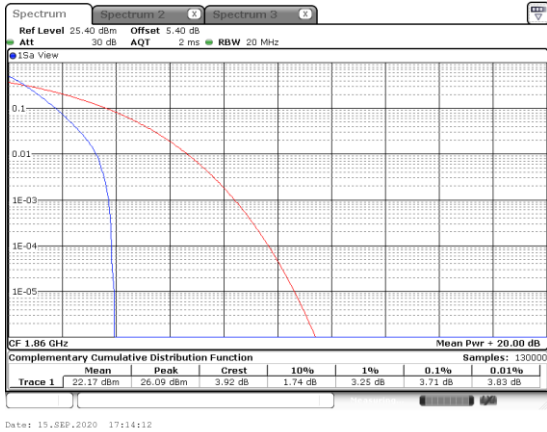
5G NR n25 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

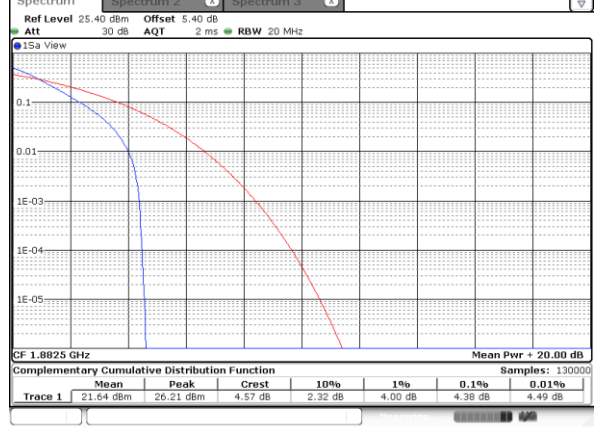
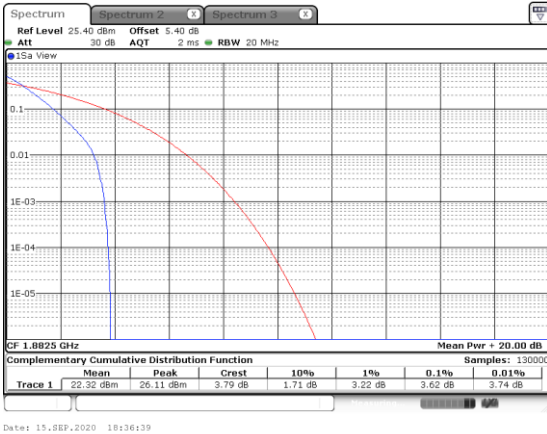
Lowest Channel / Full RB

Lowest Channel / Full RB



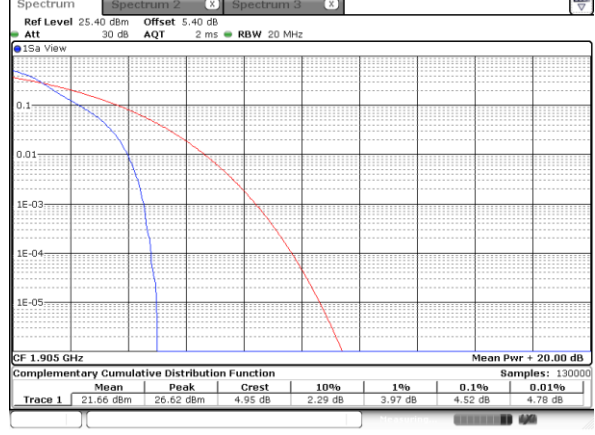
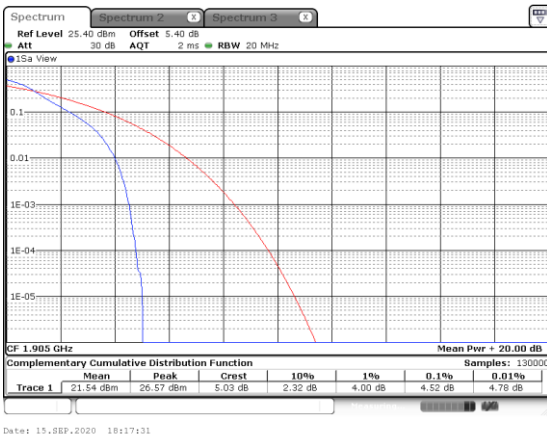
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





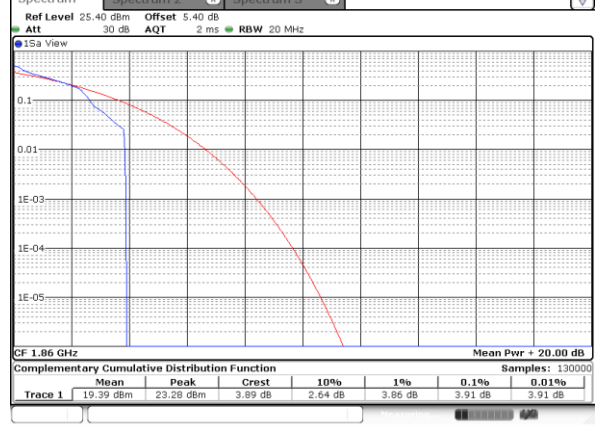
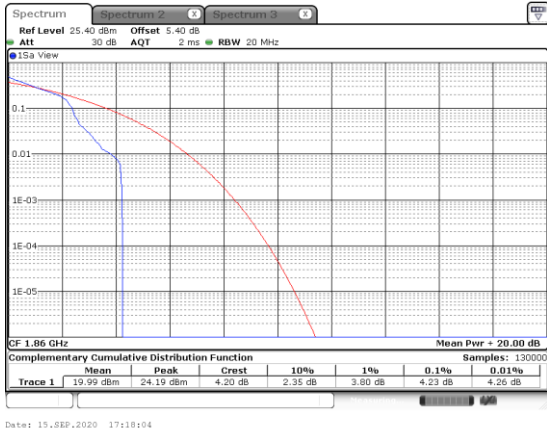
5G NR n25 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RB0

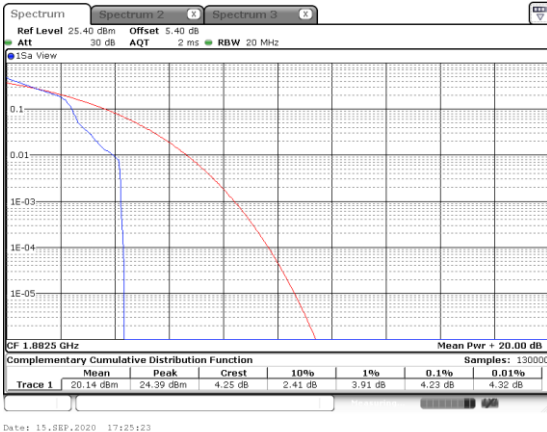


Date: 15_SEP.2020 17:18:04

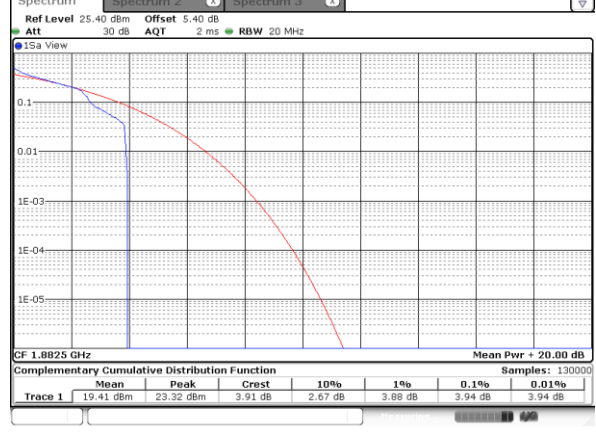
Date: 15_SEP.2020 17:20:05

Middle Channel / 1RB0

Middle Channel / 1RB0



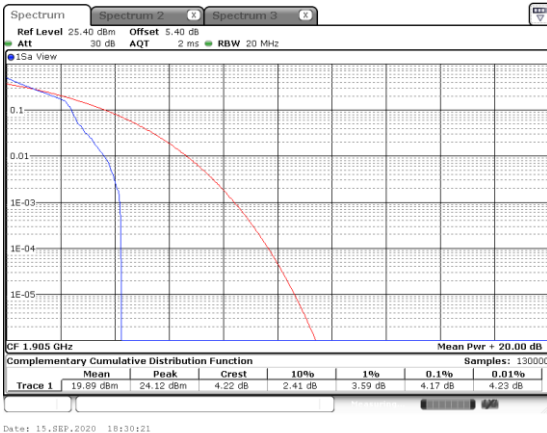
Date: 15_SEP.2020 17:25:23



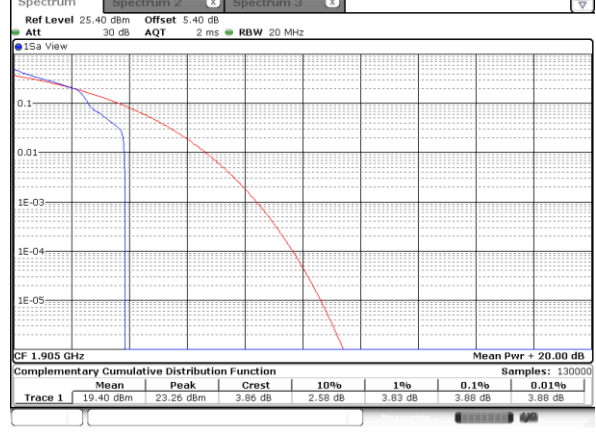
Date: 15_SEP.2020 17:26:19

Highest Channel / 1RB0

Highest Channel / 1RB0



Date: 15_SEP.2020 18:30:21



Date: 15_SEP.2020 18:31:57



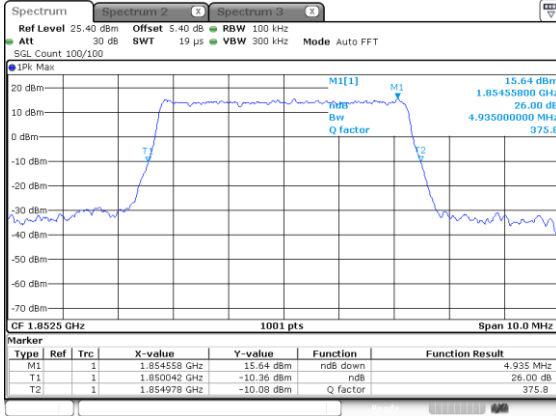
26dB Bandwidth

Mode	5G NR n25 : 26dB BW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
BW	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Lowest CH	4.935	4.905	9.77	9.81	14.266	14.655	20.18	20.14
Middle CH	4.935	4.935	9.81	9.79	14.356	14.176	20.18	20.10
Highest CH	4.985	4.975	9.67	9.67	14.266	14.236	20.18	20.18

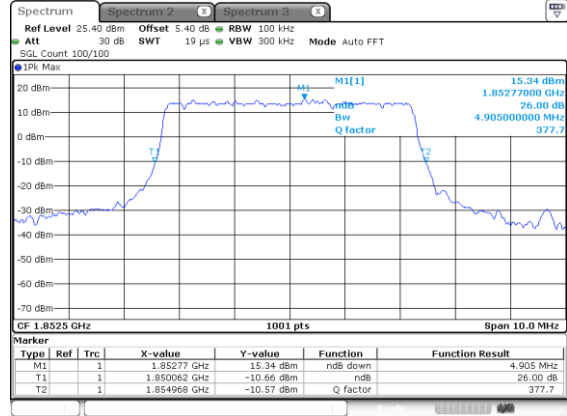


5G NR n25 / 5MHz / DFT-S OFDM

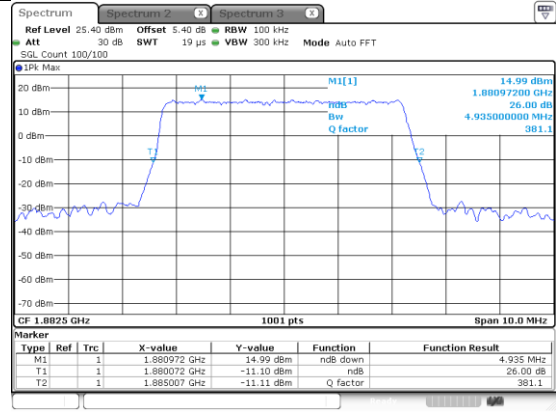
Lowest Channel / PI/2 BPSK



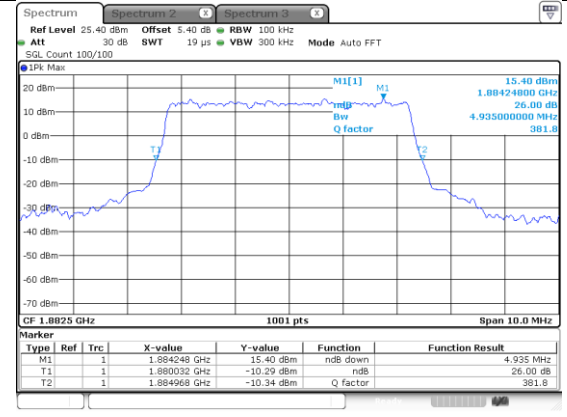
Lowest Channel / QPSK



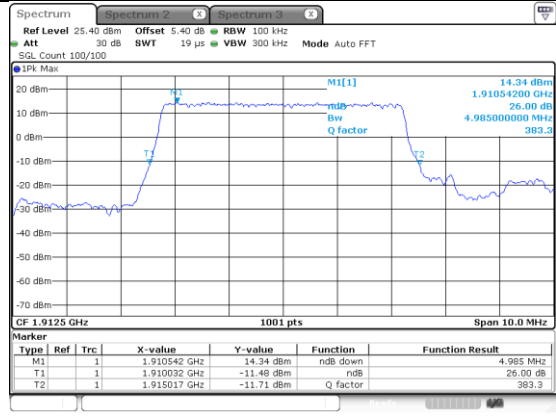
Middle Channel / PI/2 BPSK



Middle Channel / QPSK



Highest Channel / PI/2 BPSK



Highest Channel / QPSK

