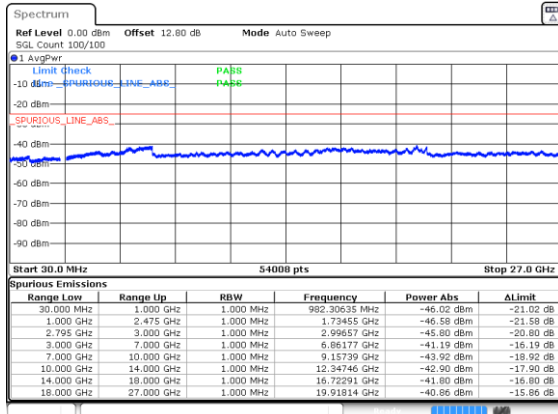




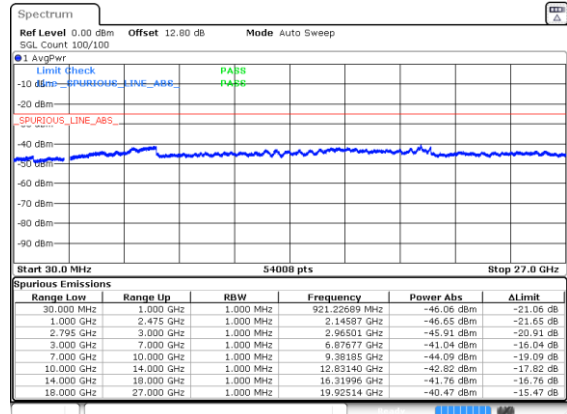
80MHz

Lowest Channel / 16QAM



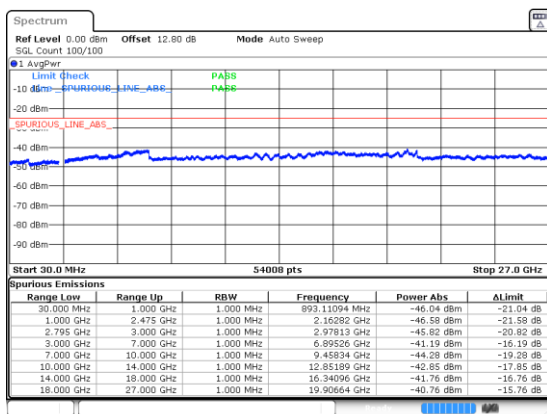
Date: 21. 8. 2020, 06:49:16

Lowest Channel / 64QAM



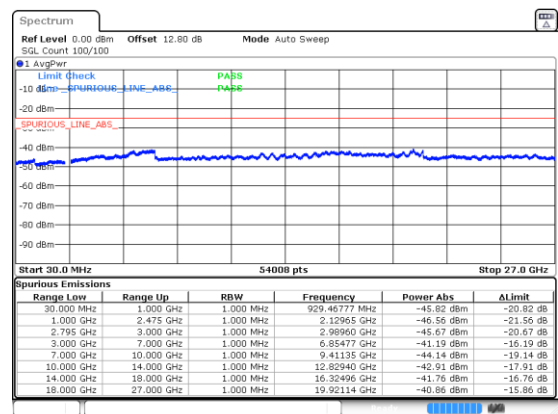
Date: 21. 8. 2020, 06:49:23

Middle Channel / 16QAM



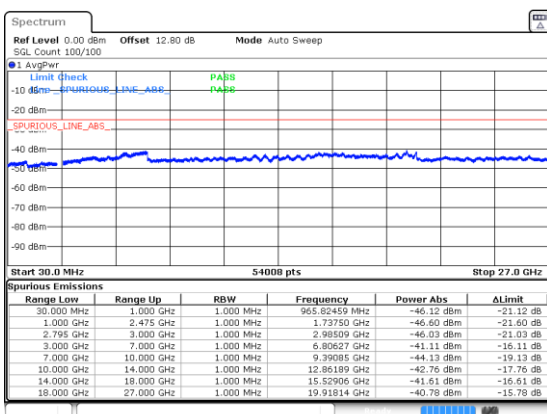
Date: 21. 8. 2020, 06:49:23

Middle Channel / 64QAM



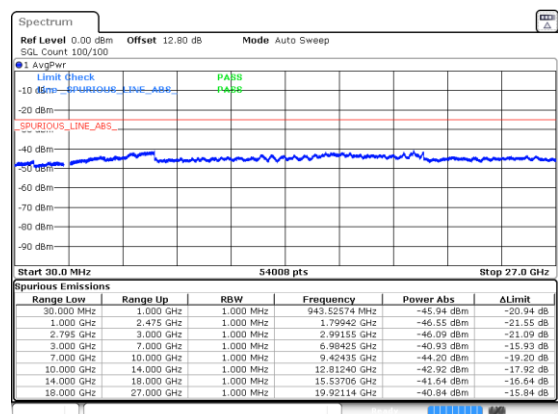
Date: 21. 8. 2020, 06:49:23

Highest Channel / 16QAM



Date: 21. 8. 2020, 06:49:23

Highest Channel / 64QAM

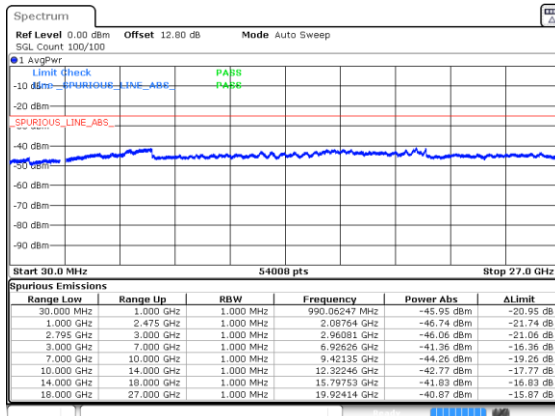


Date: 21. 8. 2020, 06:49:23

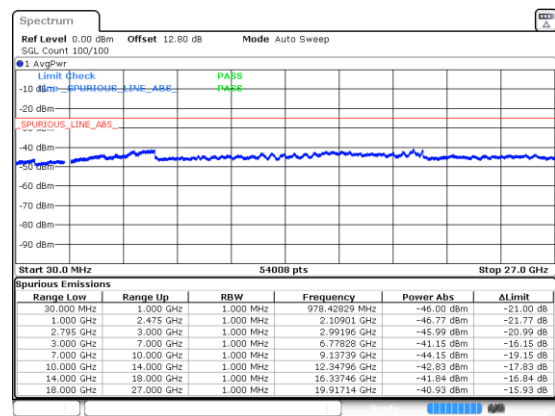


80MHz

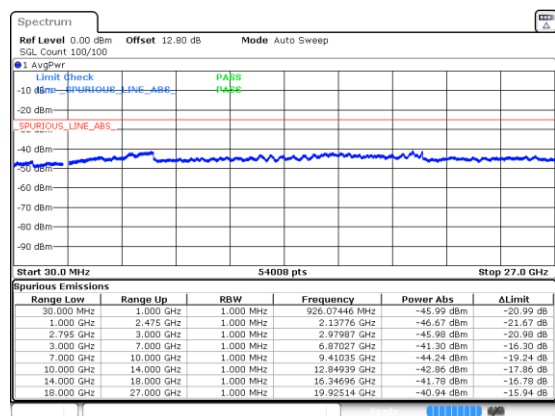
Lowest Channel / 256QAM



Middle Channel / 256QAM



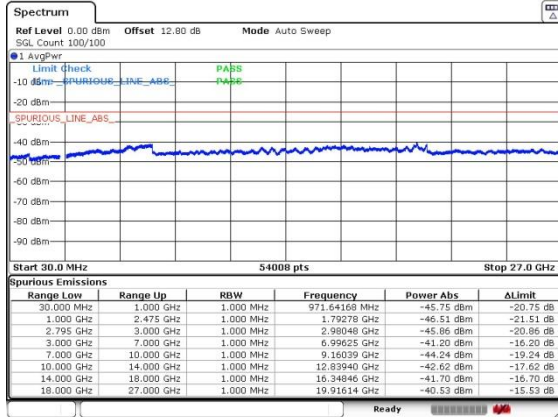
Highest Channel / 256QAM



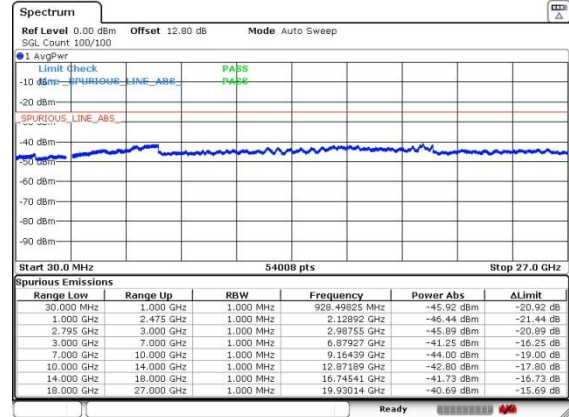


90MHz

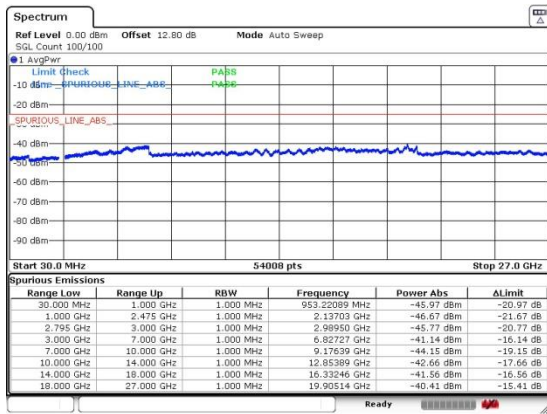
Lowest Channel / BPSK



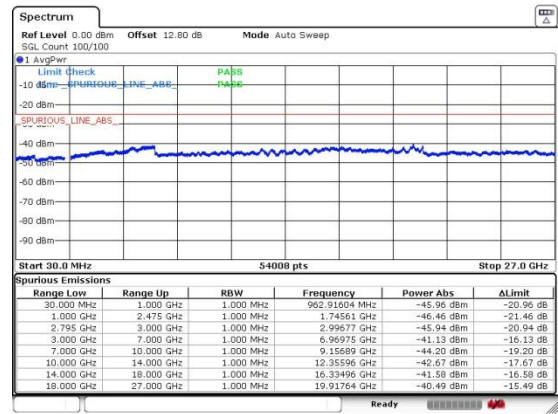
Lowest Channel / QPSK



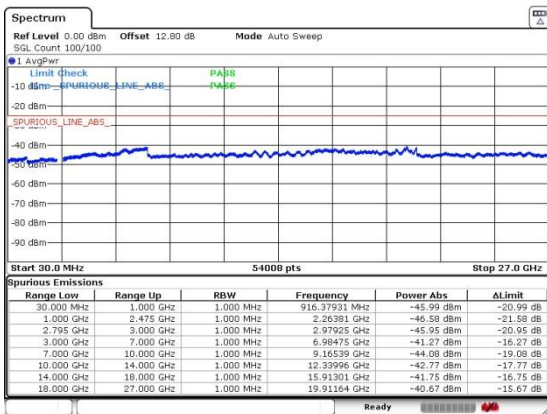
Middle Channel / BPSK



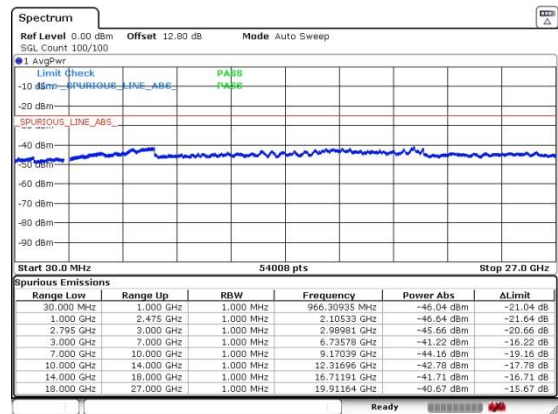
Middle Channel / QPSK



Highest Channel / BPSK



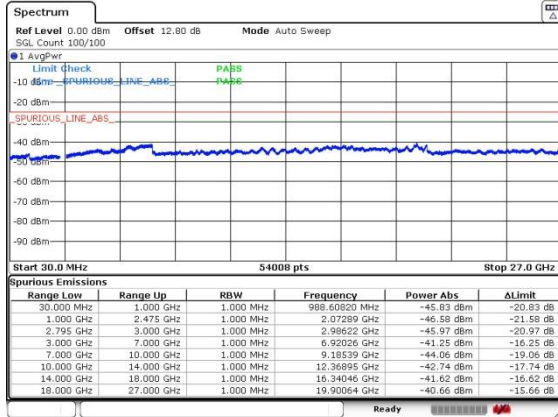
Highest Channel / QPSK



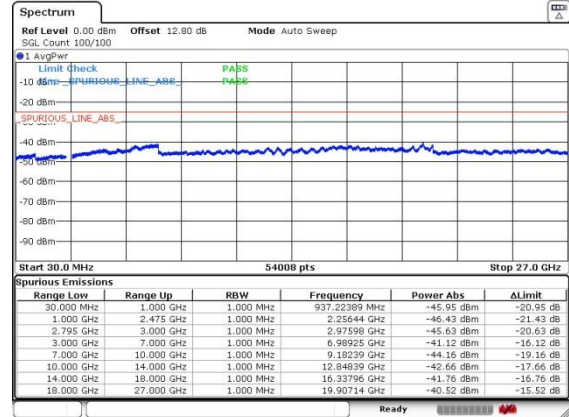


90MHz

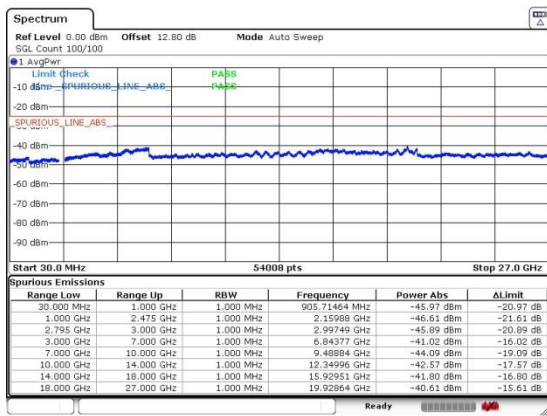
Lowest Channel / 16QAM



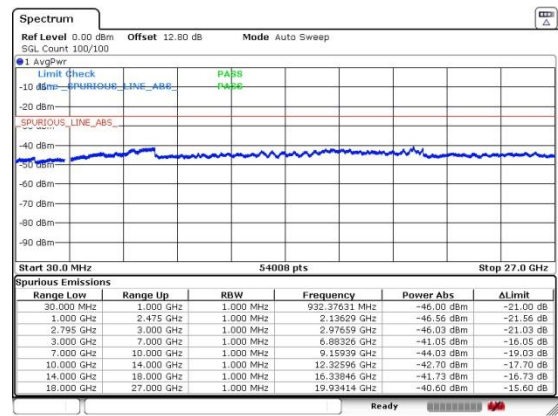
Lowest Channel / 64QAM



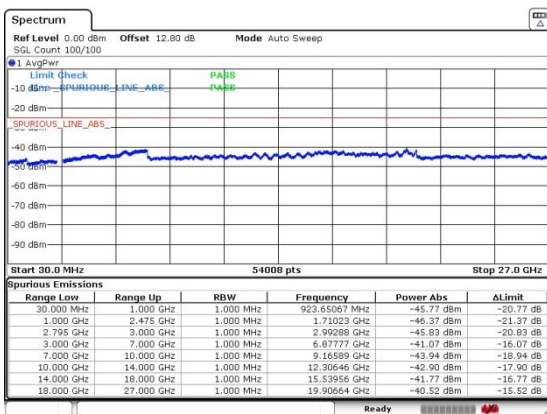
Middle Channel / 16QAM



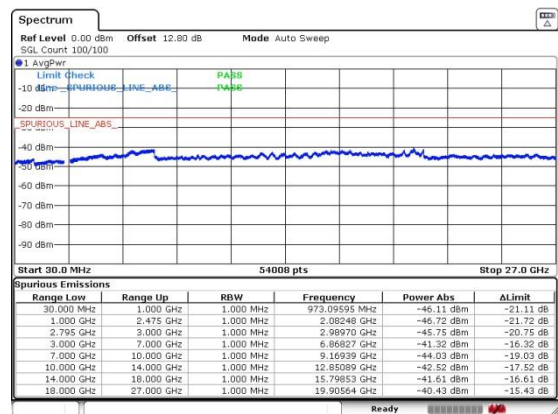
Middle Channel / 64QAM



Highest Channel / 16QAM



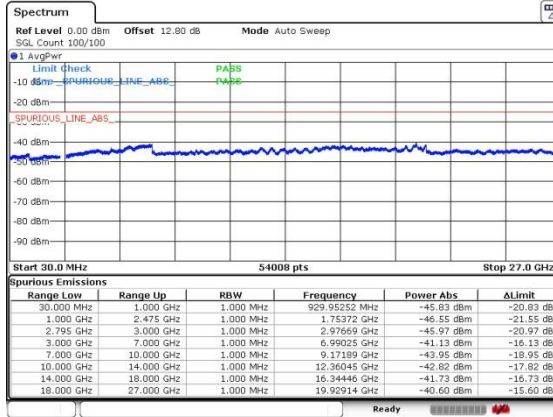
Highest Channel / 64QAM



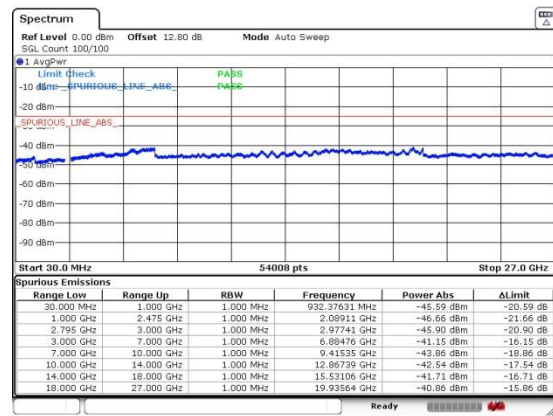


90MHz

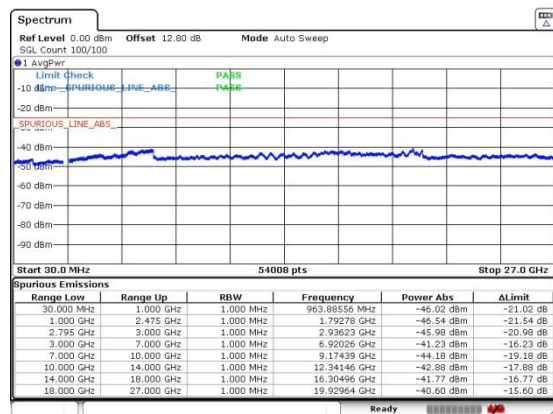
Lowest Channel / 256QAM



Middle Channel / 256QAM



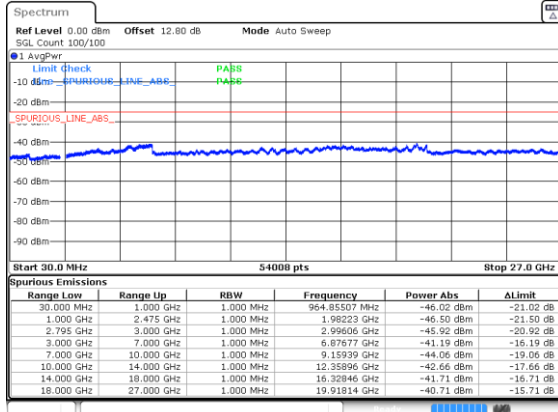
Highest Channel / 256QAM





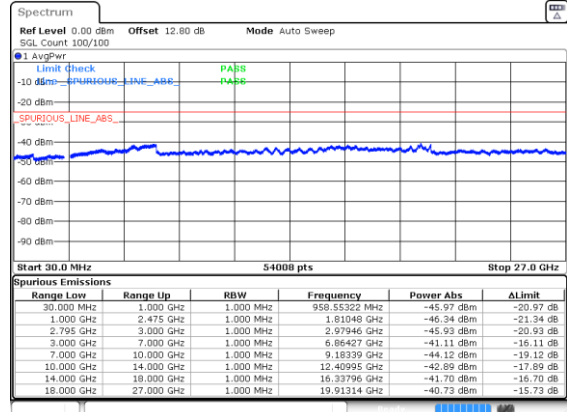
100MHz

Lowest Channel / BPSK



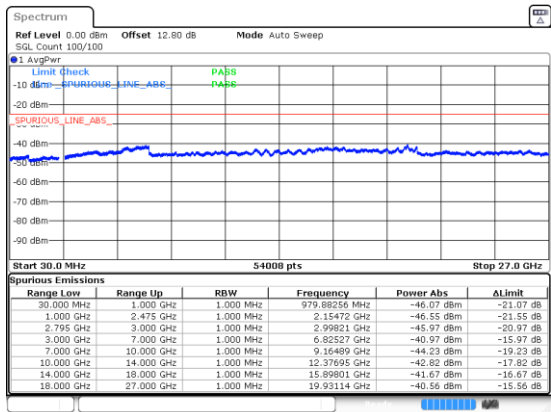
Data: 23. 8.1 2020. 04.59.03

Lowest Channel / QPSK



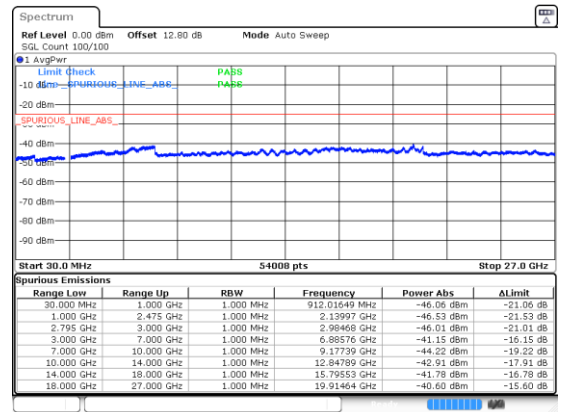
Data: 23. 8.1 2020. 04.59.03

Middle Channel / BPSK



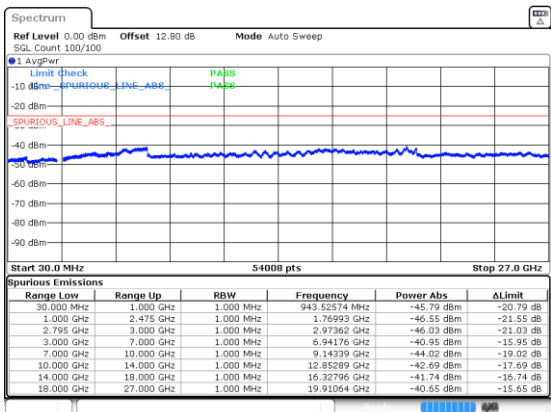
Data: 23. 8.1 2020. 04.59.03

Middle Channel / QPSK



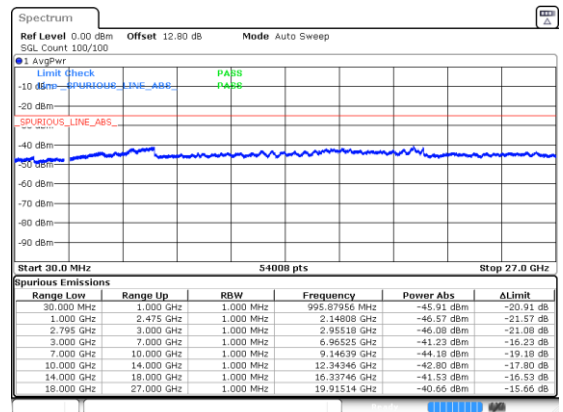
Data: 23. 8.1 2020. 04.59.03

Highest Channel / BPSK



Data: 23. 8.1 2020. 04.59.03

Highest Channel / QPSK

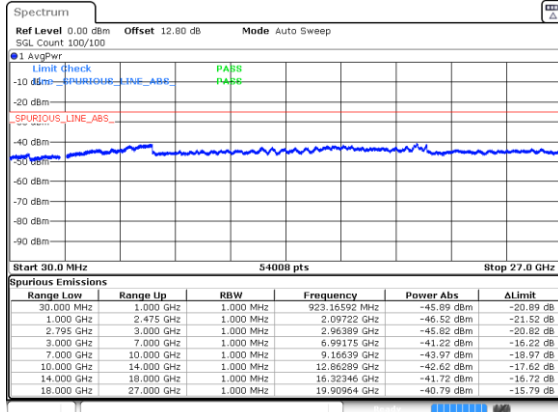


Data: 23. 8.1 2020. 04.59.03

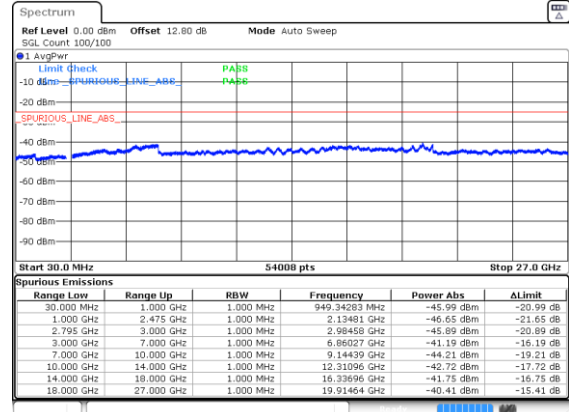


100MHz

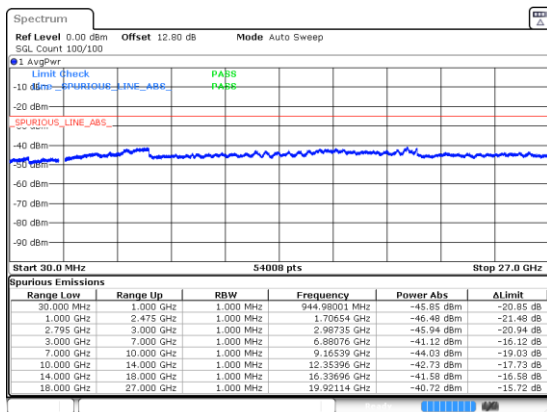
Lowest Channel / 16QAM



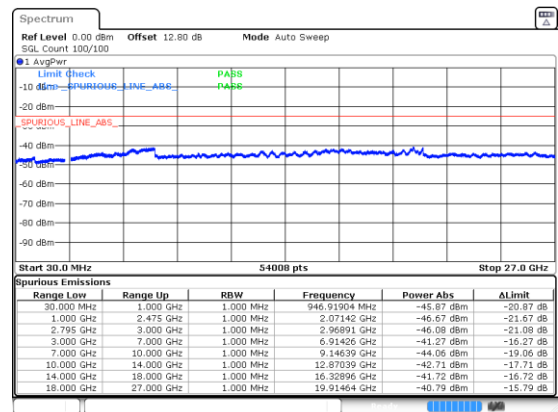
Lowest Channel / 64QAM



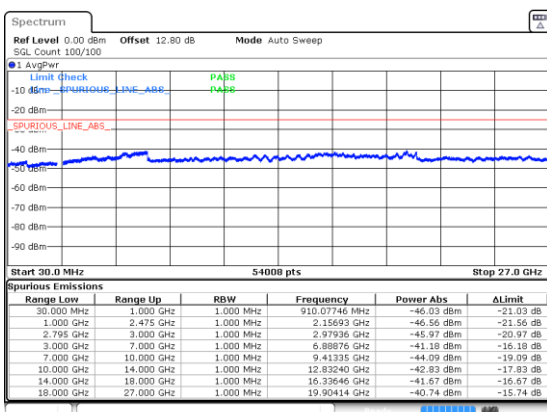
Middle Channel / 16QAM



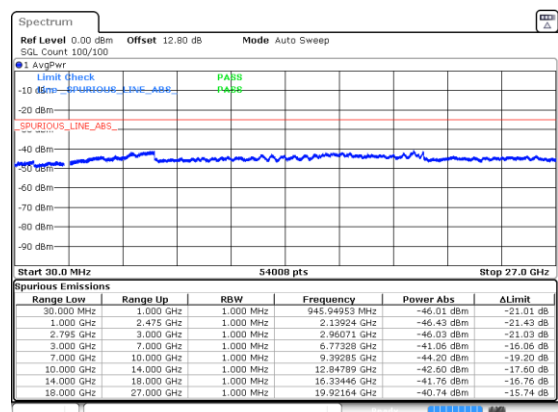
Middle Channel / 64QAM



Highest Channel / 16QAM



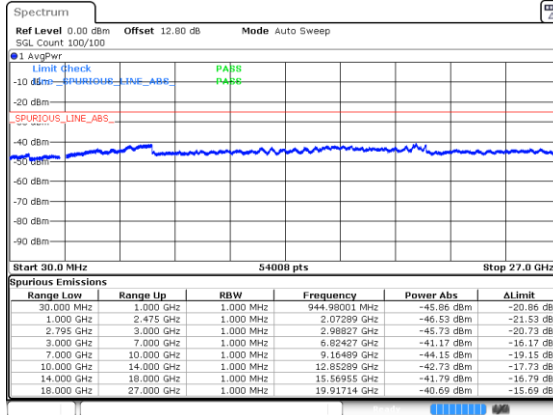
Highest Channel / 64QAM



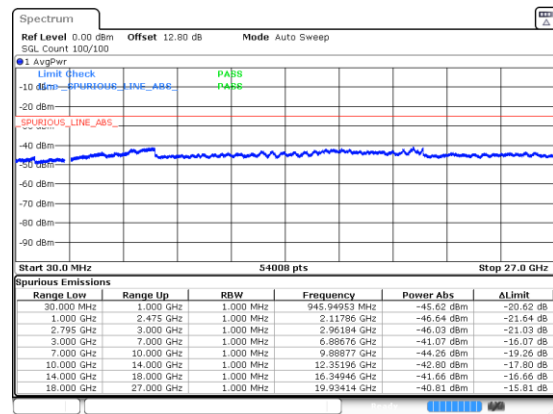


100MHz

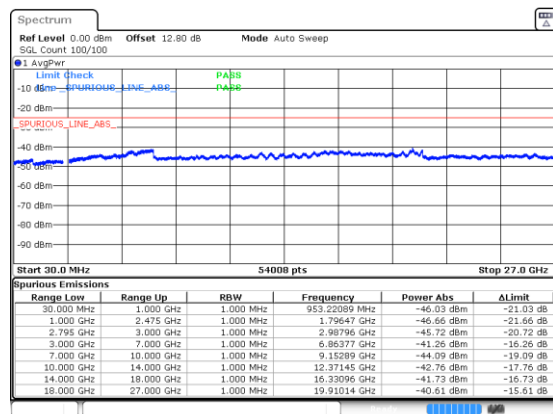
Lowest Channel / 256QAM



Middle Channel / 256QAM



Highest Channel / 256QAM



Frequency Stability

Test Conditions		n41A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0016	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n66

Peak-to-Average Ratio

Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Lowest CH	5.65	7.62	8.17	8.43	PASS
Middle CH	5.71	7.59	8.26	8.41	
Highest CH	5.68	7.59	8.17	8.43	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	8.20				PASS
Middle CH	8.23				
Highest CH	8.26				
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	1 RB0	1 RB0	1 RB0	1 RB0	Result
Lowest CH	4.87	4.72	5.62	6.43	PASS
Middle CH	4.93	4.67	5.57	6.32	
Highest CH	5.22	4.78	5.80	6.52	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	1 RB0				Result
Lowest CH	7.39				PASS
Middle CH	7.54				
Highest CH	7.54				



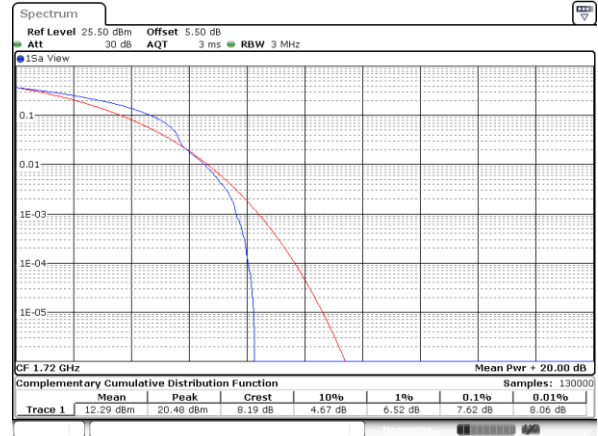
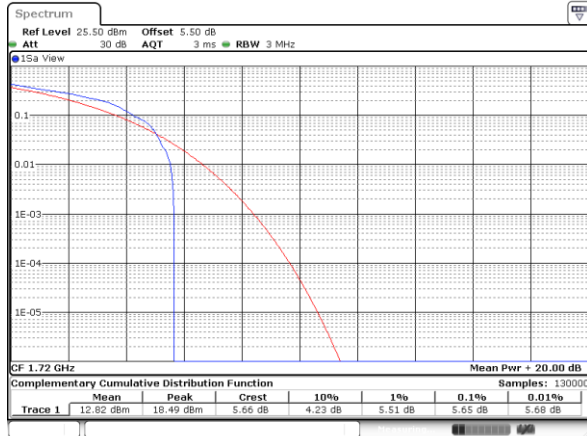
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

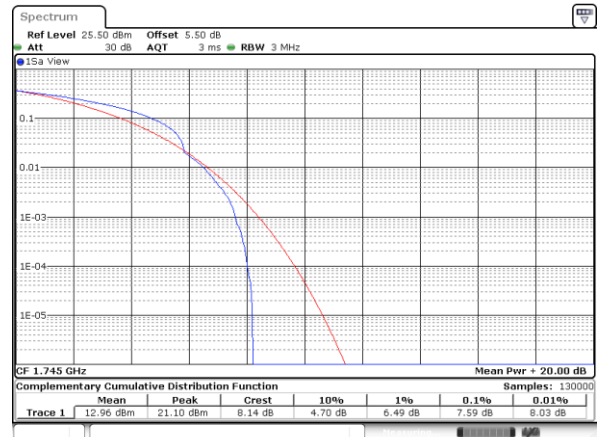
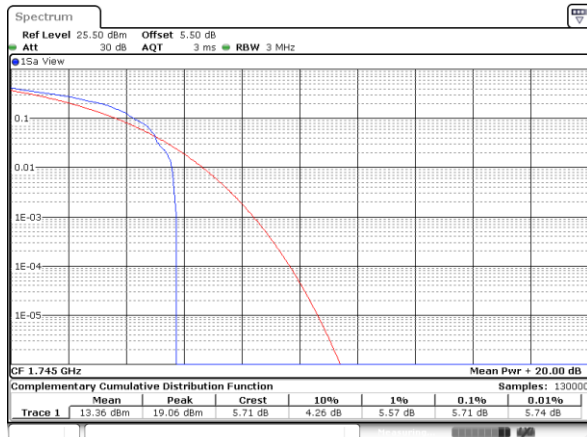
Lowest Channel / Full RB

Lowest Channel / Full RB



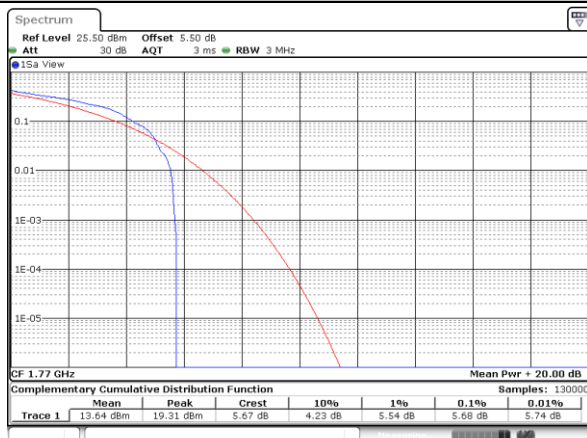
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





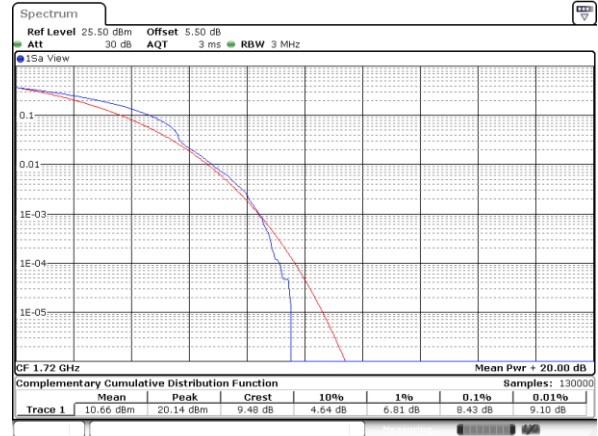
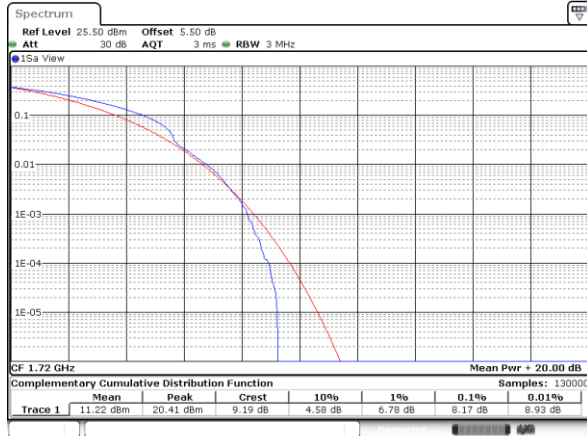
FR1 n66 / 20MHz / DFT-S OFDM

16QAM

64QAM

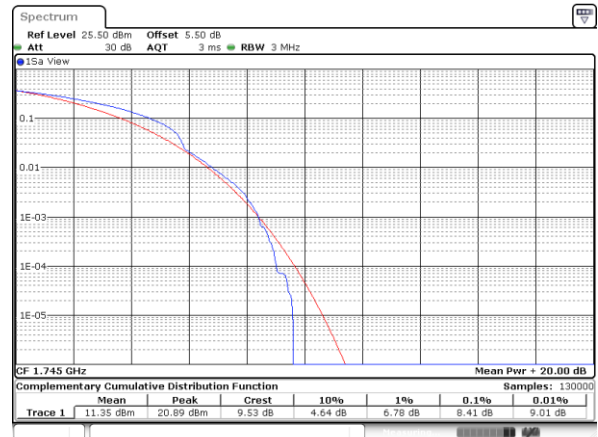
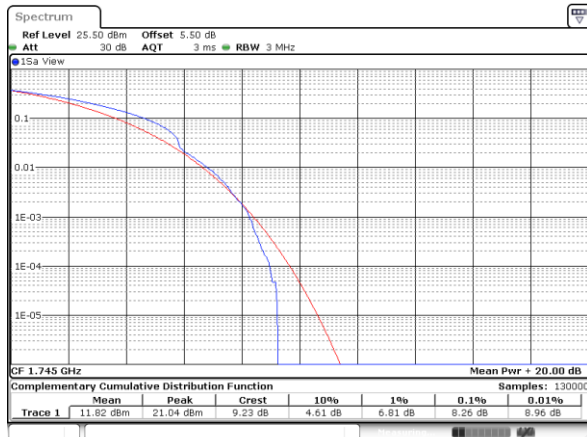
Lowest Channel / Full RB

Lowest Channel / Full RB



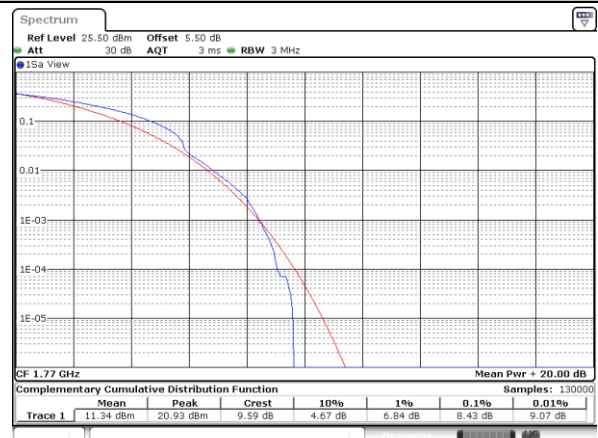
Middle Channel / Full RB

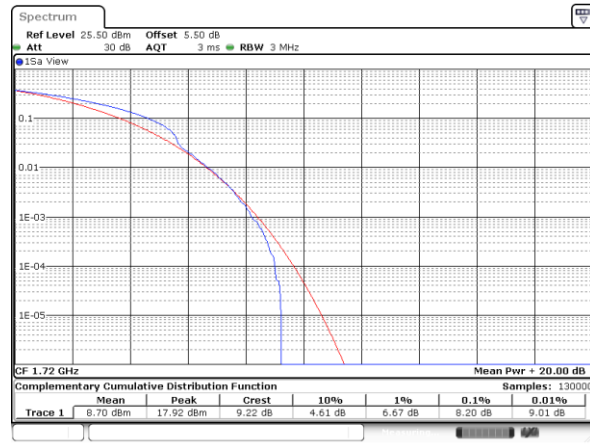
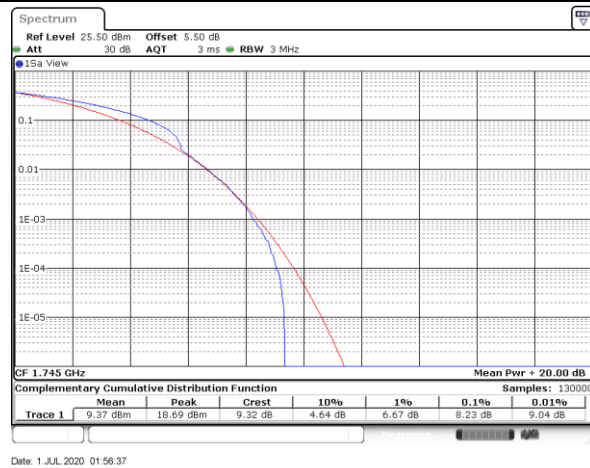
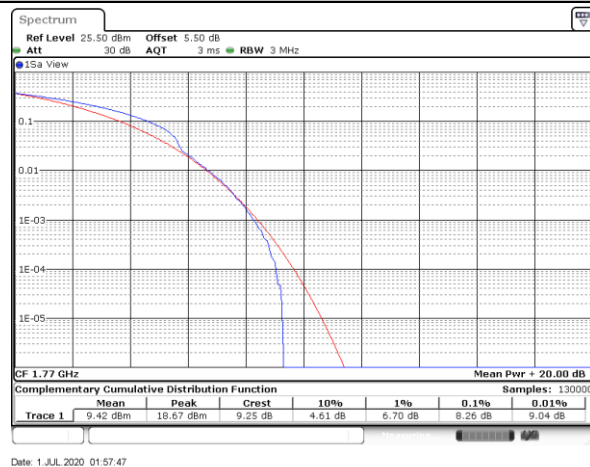
Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB



FR1 n66 / 20MHz / DFT-S OFDM
256QAM
Lowest Channel / Full RB

Middle Channel / Full RB

Highest Channel / Full RB




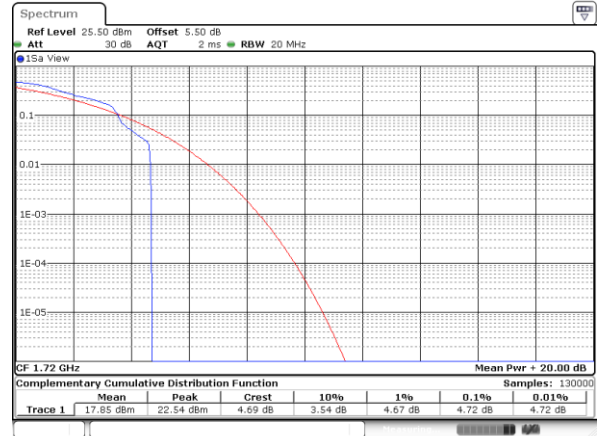
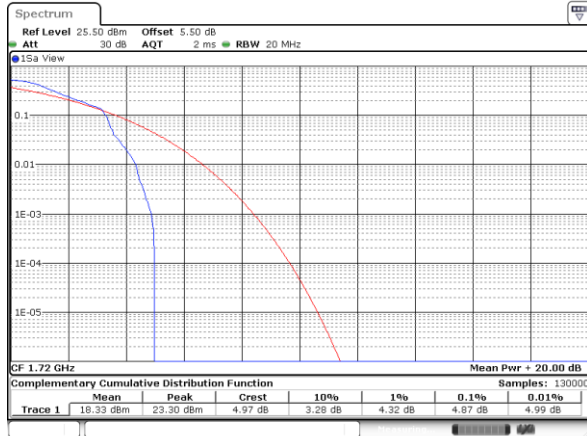
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

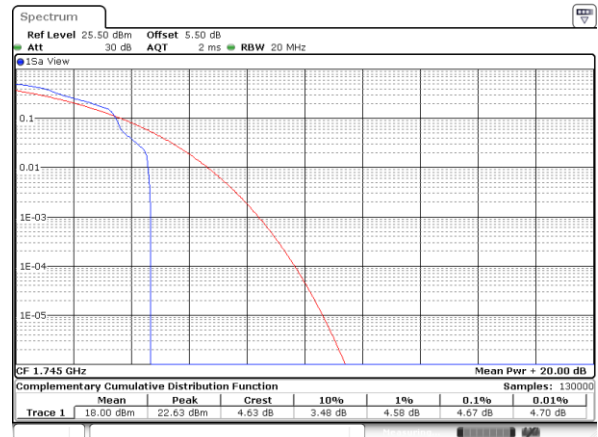
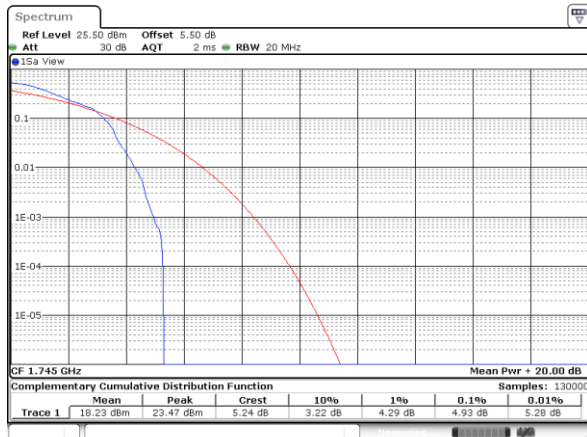
Lowest Channel / 1RB0

Lowest Channel / 1RB0



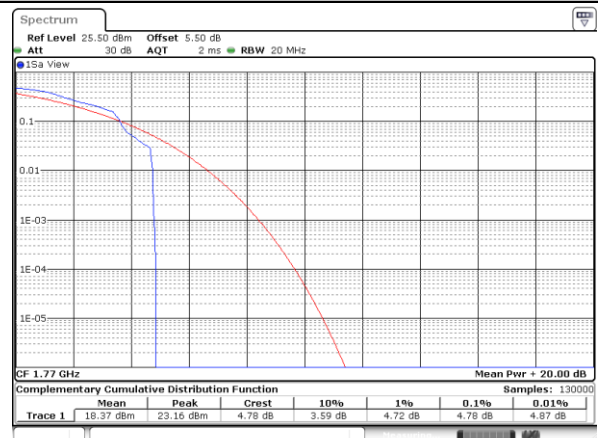
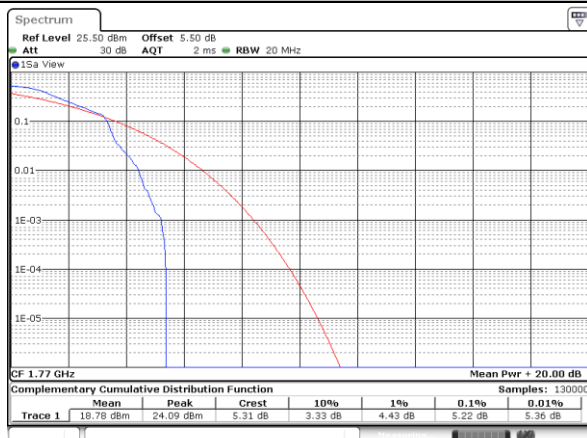
Middle Channel / 1RB0

Middle Channel / 1RB0



Highest Channel / 1RB0

Highest Channel / 1RB0





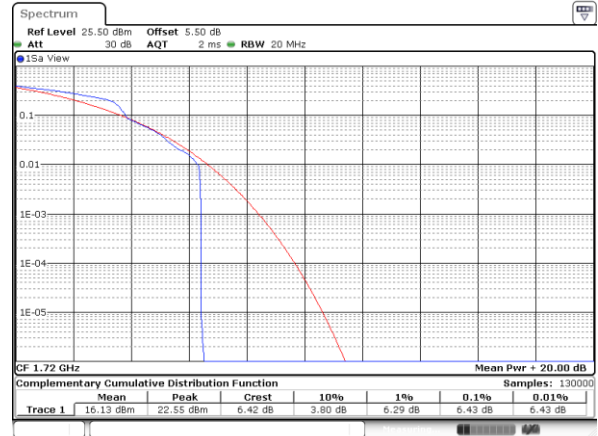
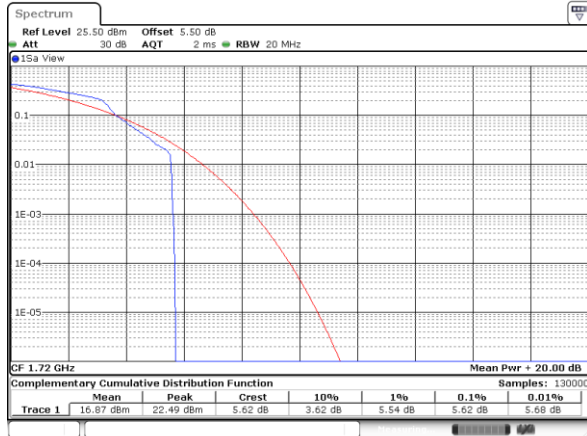
FR1 n66 / 20MHz / DFT-S OFDM

16QAM

64QAM

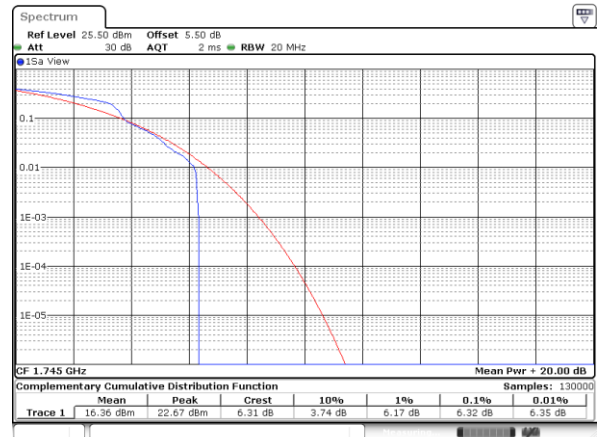
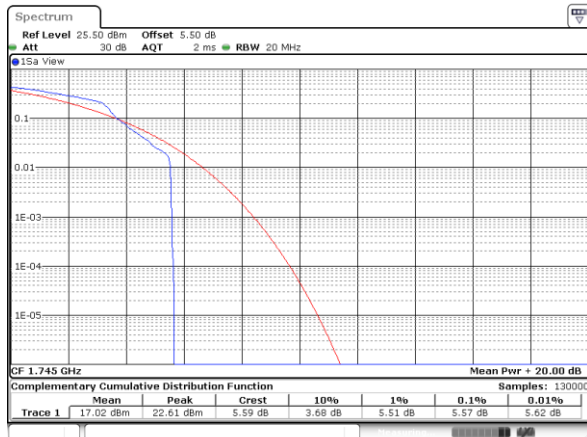
Lowest Channel / 1RB0

Lowest Channel / 1RB0



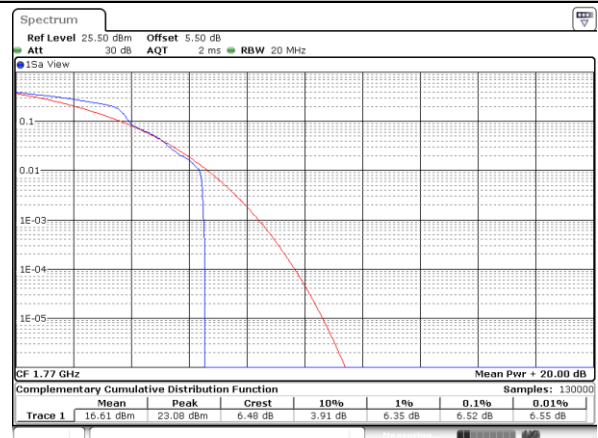
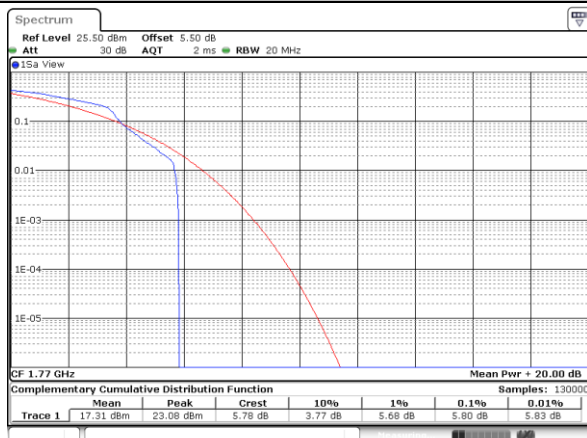
Middle Channel / 1RB0

Middle Channel / 1RB0



Highest Channel / 1RB0

Highest Channel / 1RB0

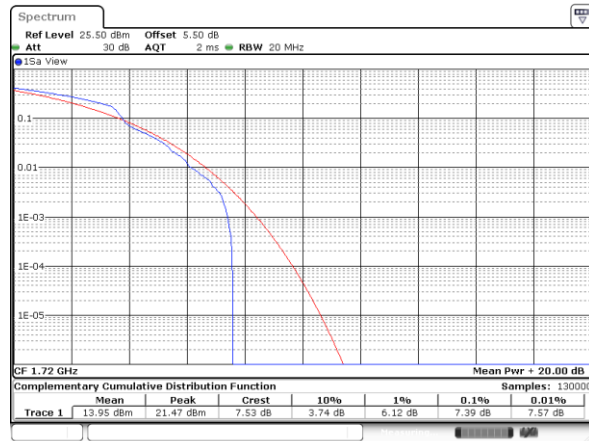




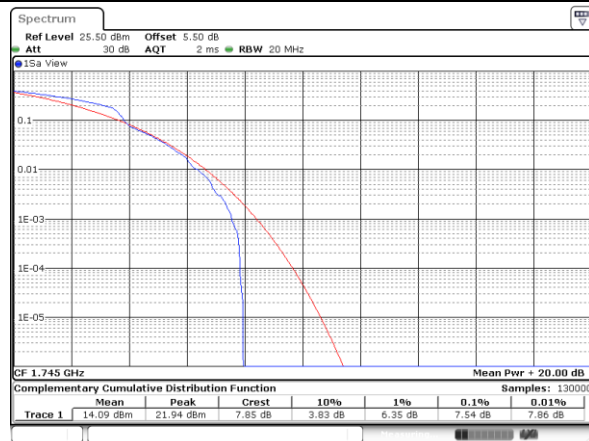
FR1 n66 / 20MHz / DFT-S OFDM

256QAM

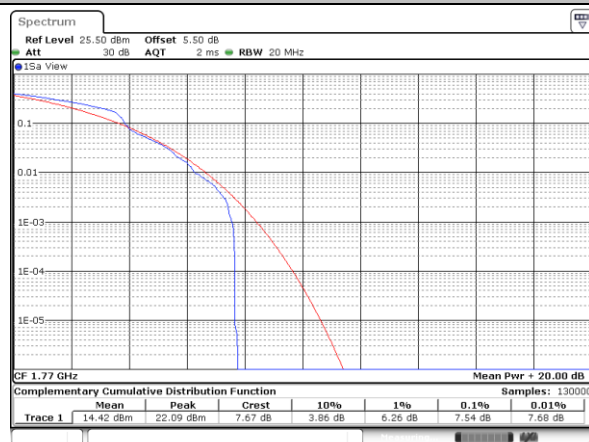
Lowest Channel / 1RB0



Middle Channel / 1RB0



Highest Channel / 1RB0



**26dB Bandwidth**

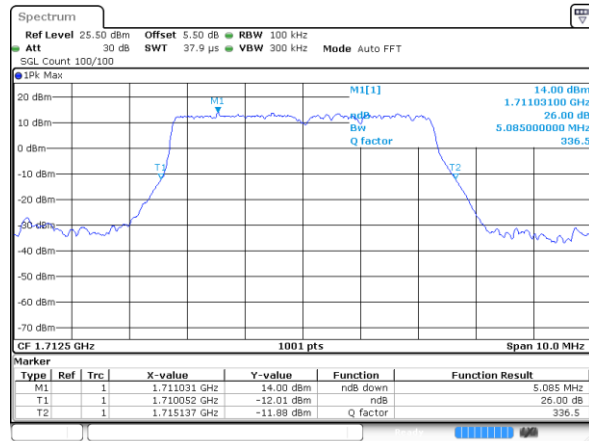
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Lowest CH	5.08		9.63		14.30		20.22	
Middle CH	5.00		9.97		14.36		20.22	
Highest CH	5.07		9.83		14.24		20.22	
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.11	5.07	9.65	9.83	14.33	14.33	20.22	20.42
Middle CH	5.03	5.19	9.73	9.85	14.33	14.30	20.26	20.34
Highest CH	5.11	5.16	9.77	9.87	14.36	14.36	20.22	20.34
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.96	5.00	9.85	9.85	14.36	14.39	20.18	20.26
Middle CH	5.07	5.08	9.85	9.77	14.24	14.36	20.18	20.26
Highest CH	5.26	5.14	9.89	9.83	14.30	14.39	20.22	20.26



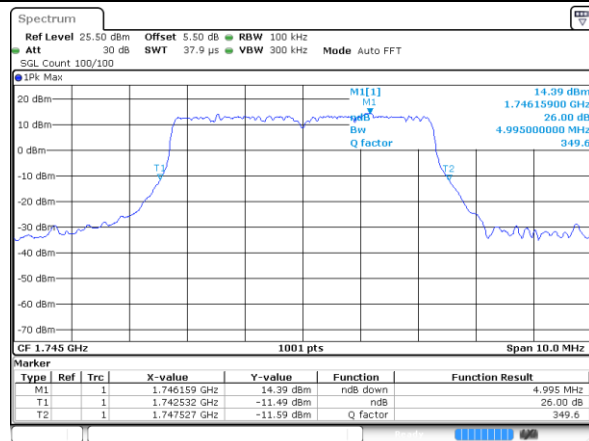
FR1 n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

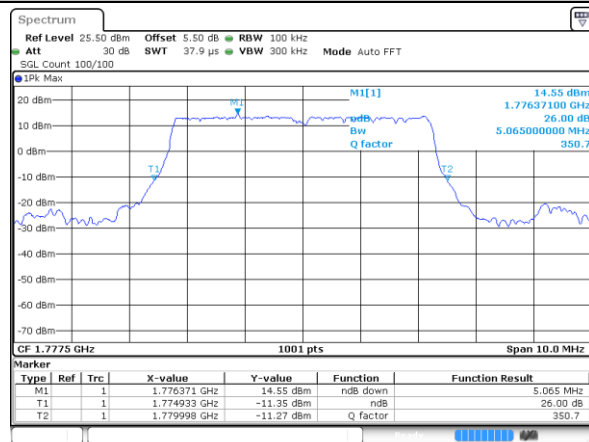
Lowest Channel



Middle Channel



Highest Channel

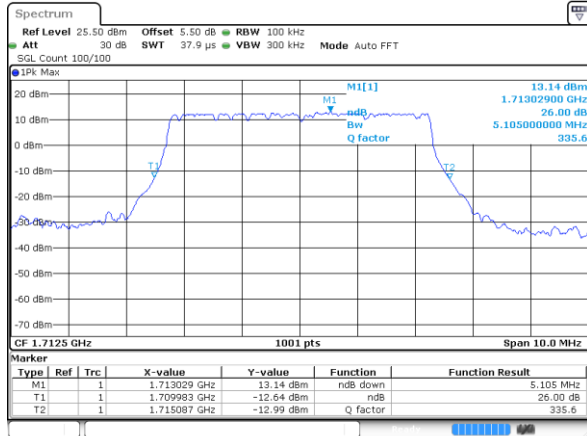




FR1 n66 / 5MHz / DFT-S OFDM

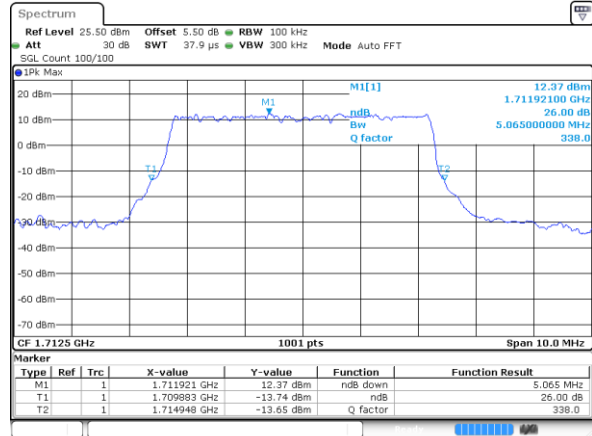
QPSK

Lowest Channel

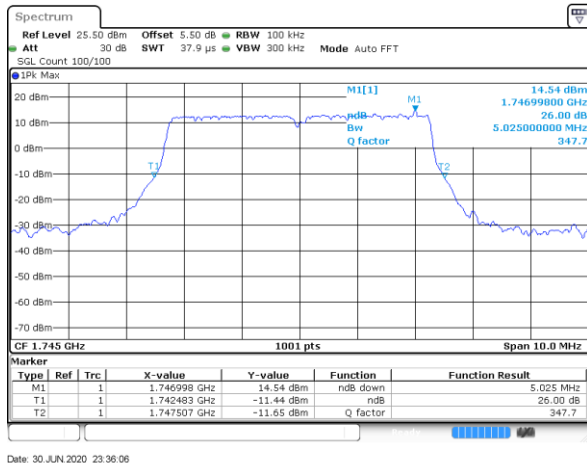


16QAM

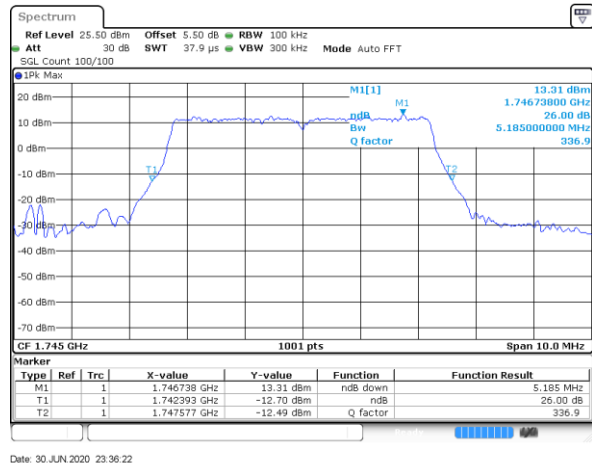
Lowest Channel



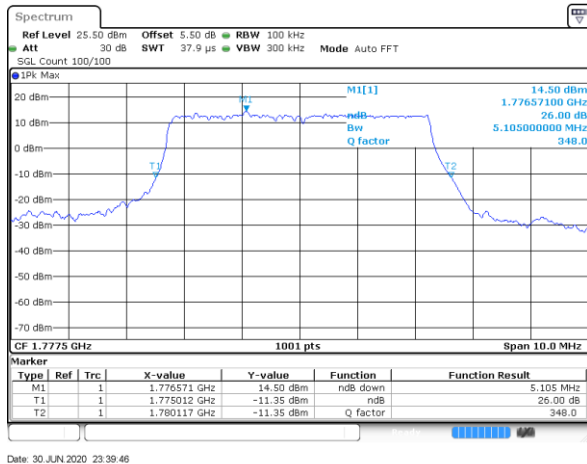
Middle Channel



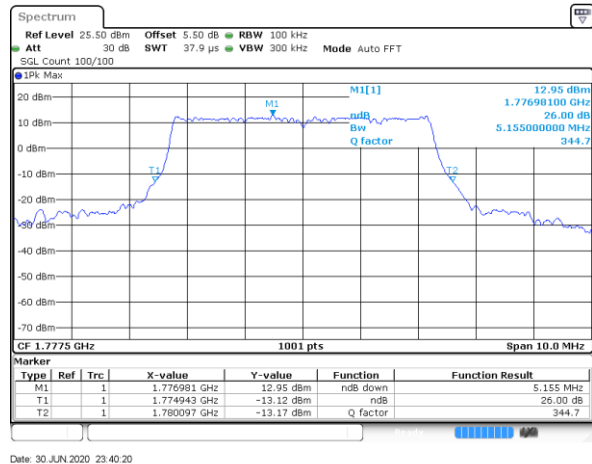
Middle Channel



Highest Channel



Highest Channel

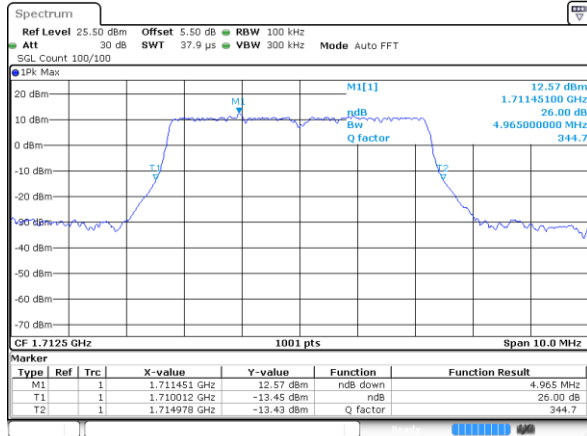




FR1 n66 / 5MHz / DFT-S OFDM

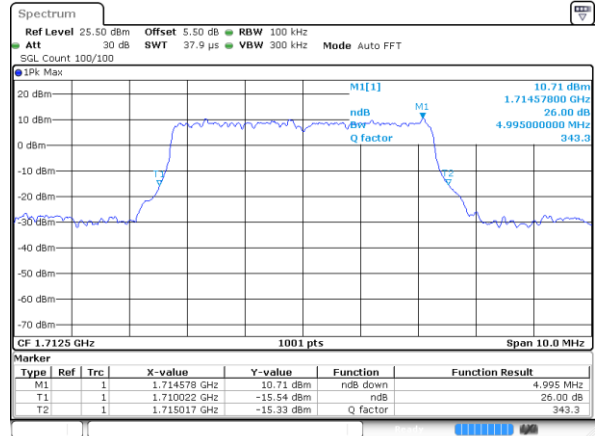
64QAM

Lowest Channel

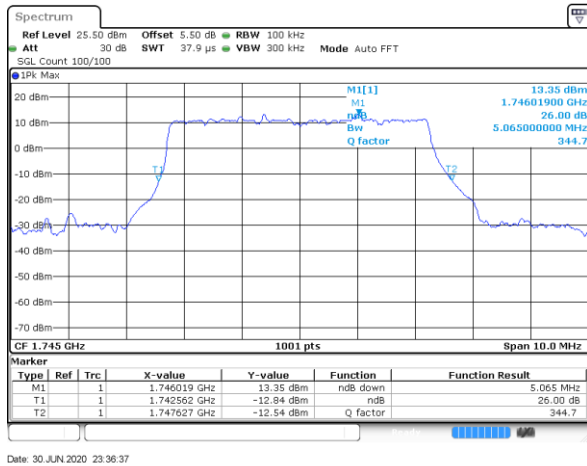


256QAM

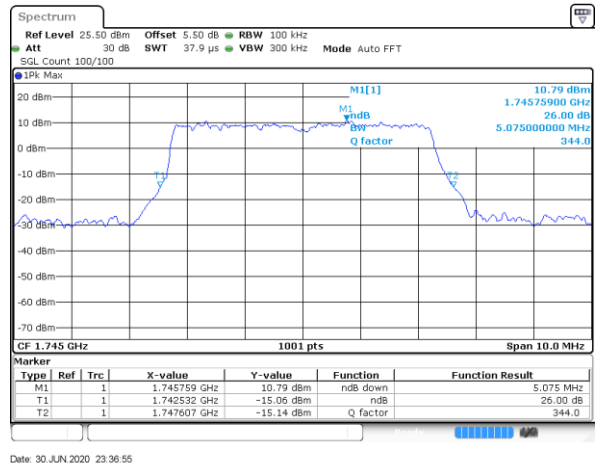
Lowest Channel



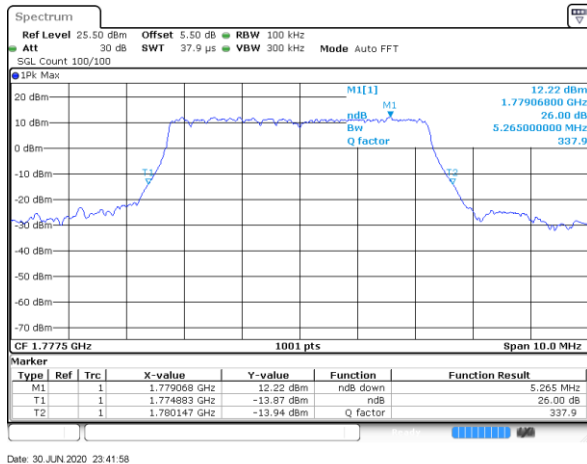
Middle Channel



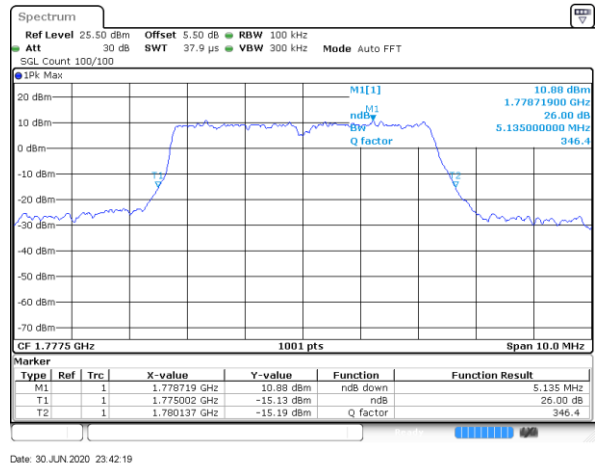
Middle Channel



Highest Channel



Highest Channel

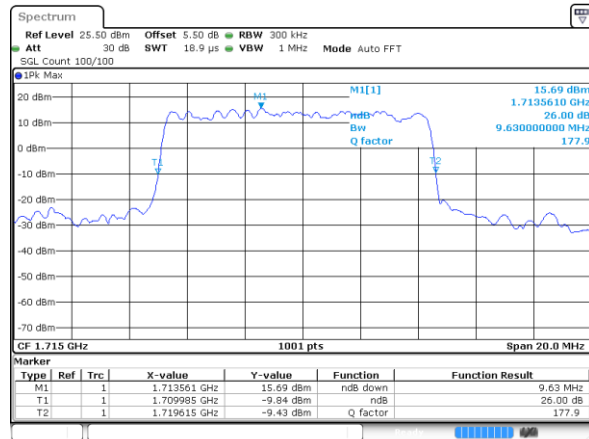




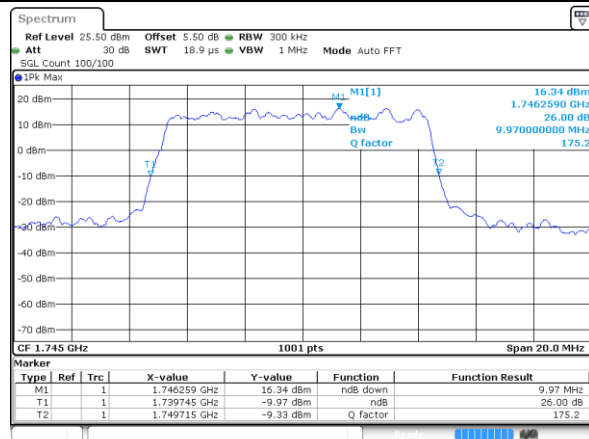
FR1 n66 / 10MHz / DFT-S OFDM

PI/2 BPSK

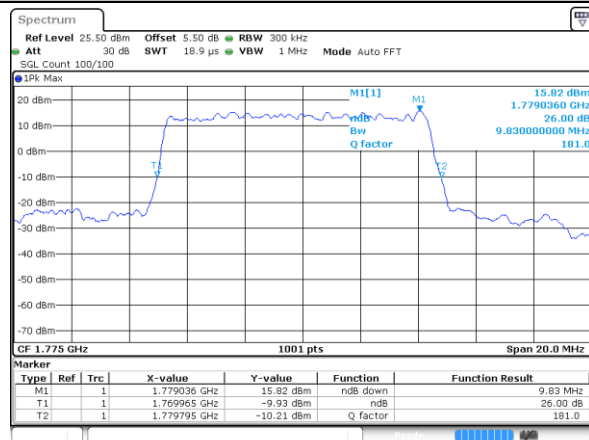
Lowest Channel



Middle Channel



Highest Channel

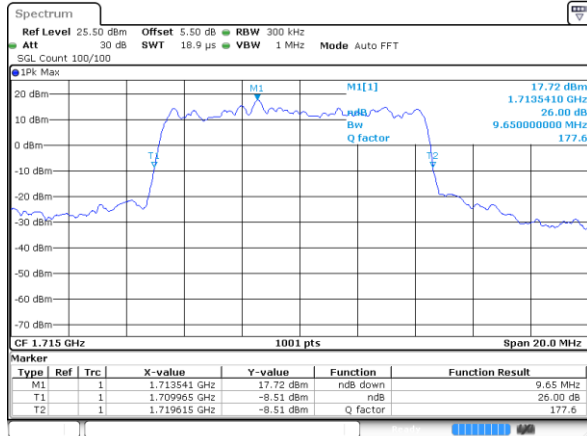




FR1 n66 / 10MHz / DFT-S OFDM

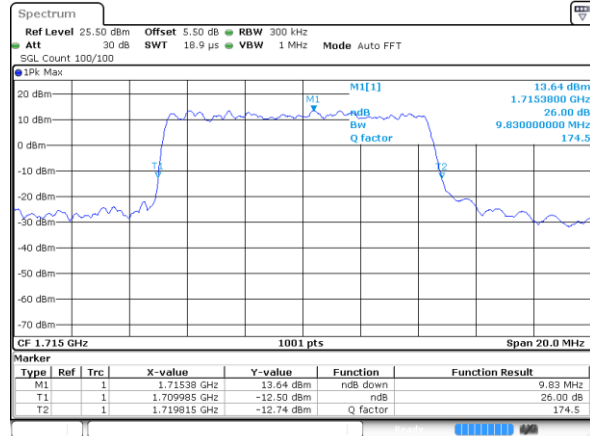
QPSK

Lowest Channel

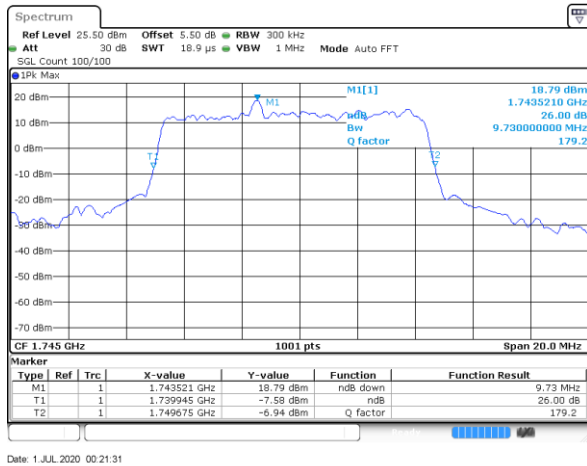


16QAM

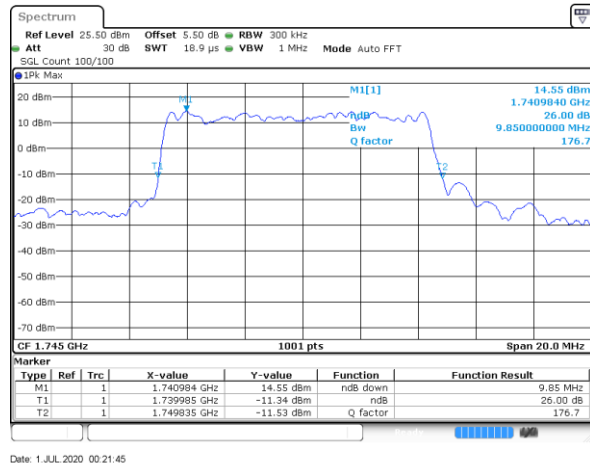
Lowest Channel



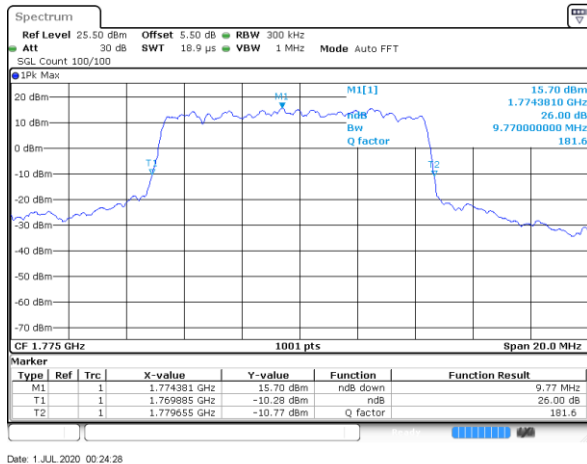
Middle Channel



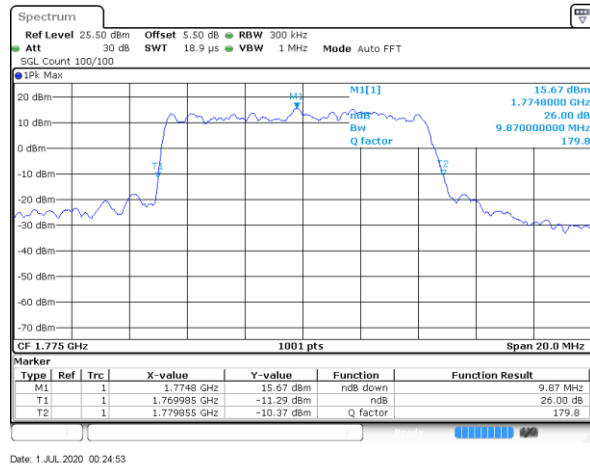
Middle Channel



Highest Channel



Highest Channel

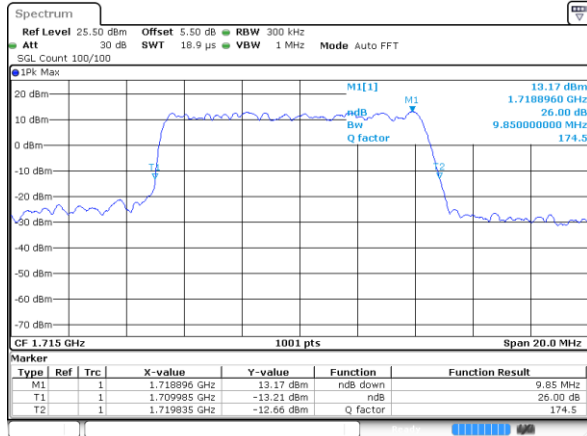




FR1 n66 / 10MHz / DFT-S OFDM

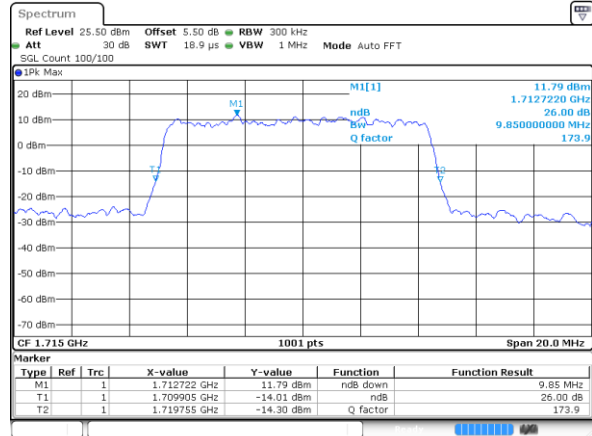
64QAM

Lowest Channel

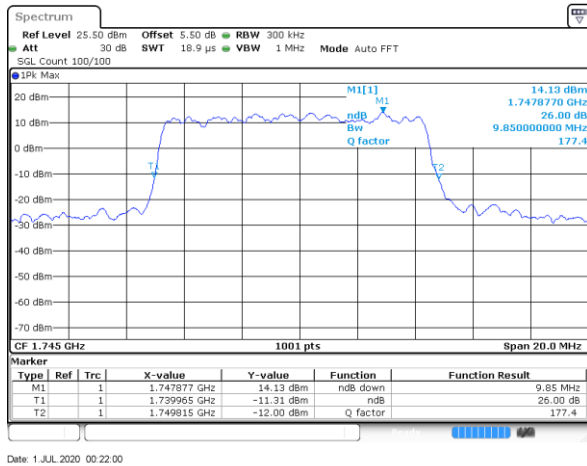


256QAM

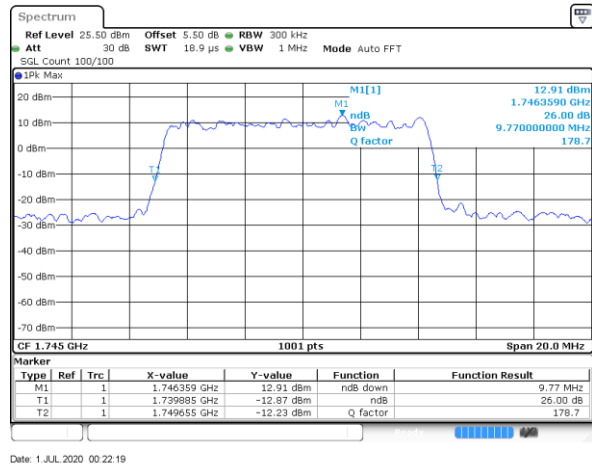
Lowest Channel



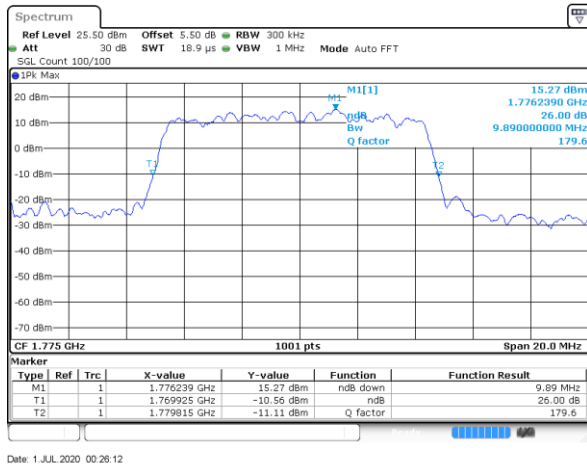
Middle Channel



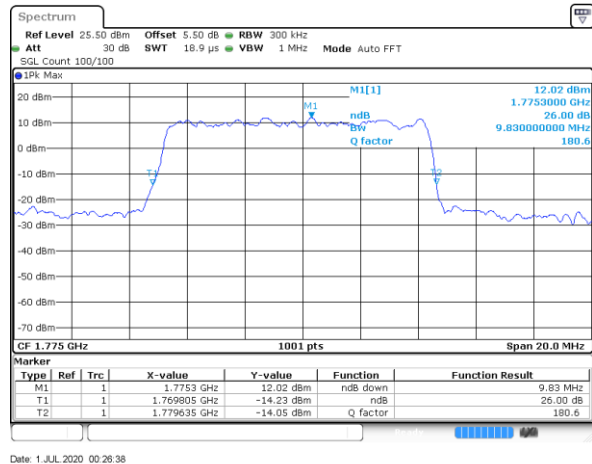
Middle Channel



Highest Channel



Highest Channel

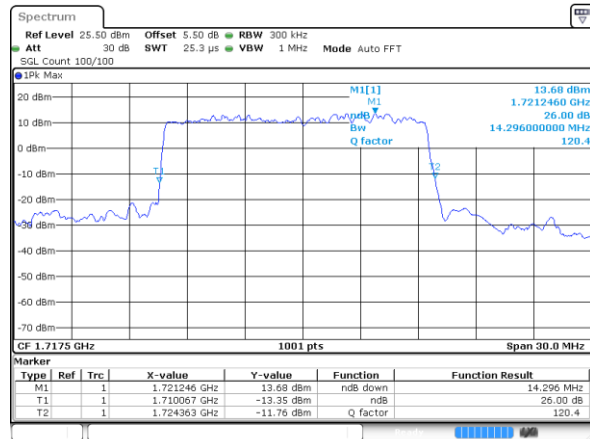




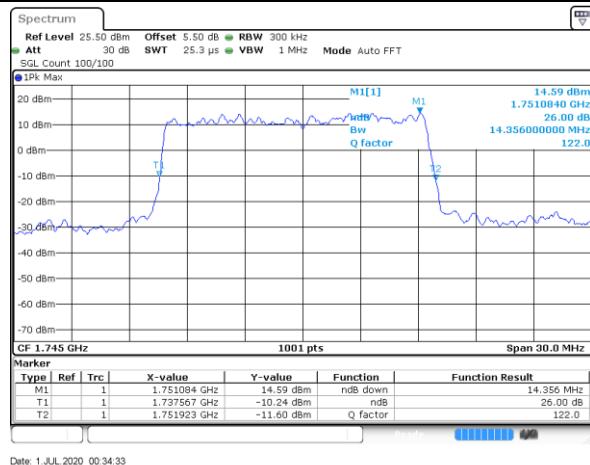
FR1 n66 / 15MHz / DFT-S OFDM

PI/2 BPSK

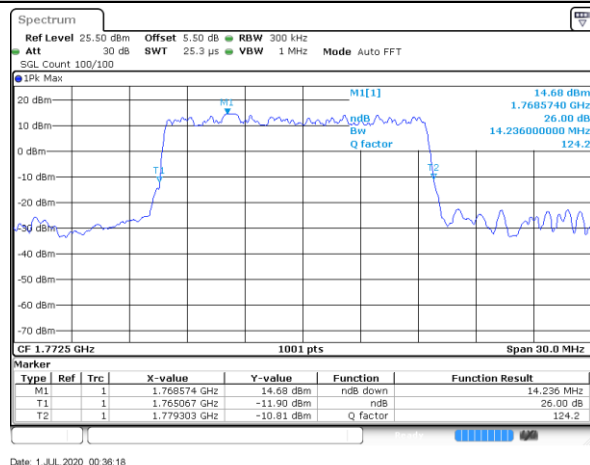
Lowest Channel



Middle Channel



Highest Channel

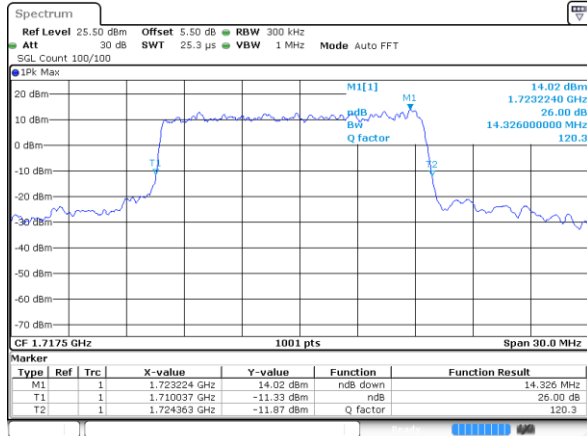




FR1 n66 / 15MHz / DFT-S OFDM

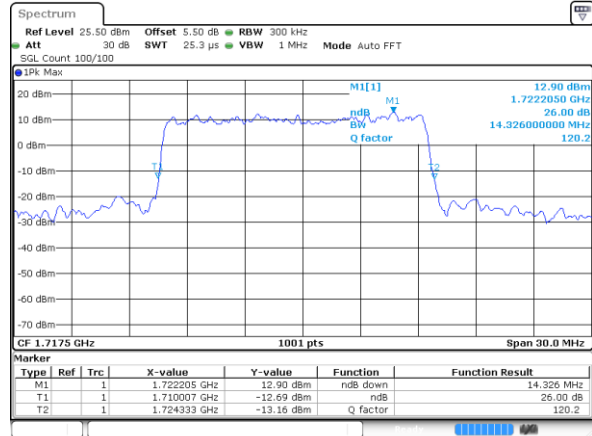
QPSK

Lowest Channel

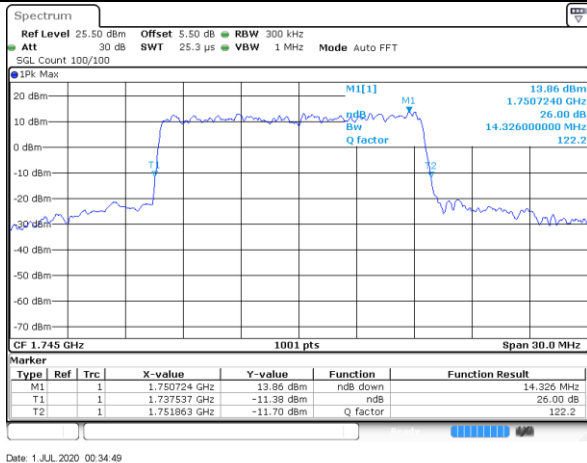


16QAM

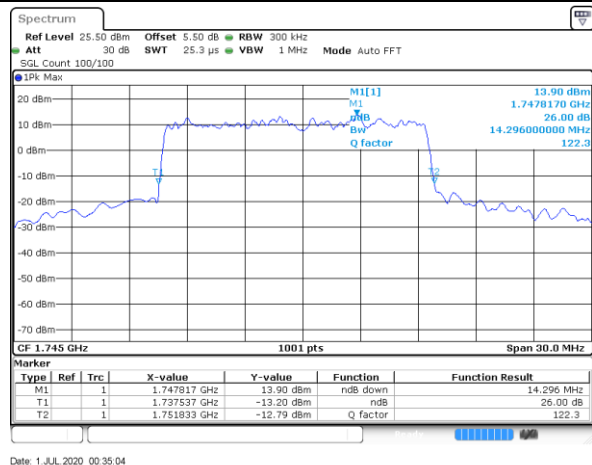
Lowest Channel



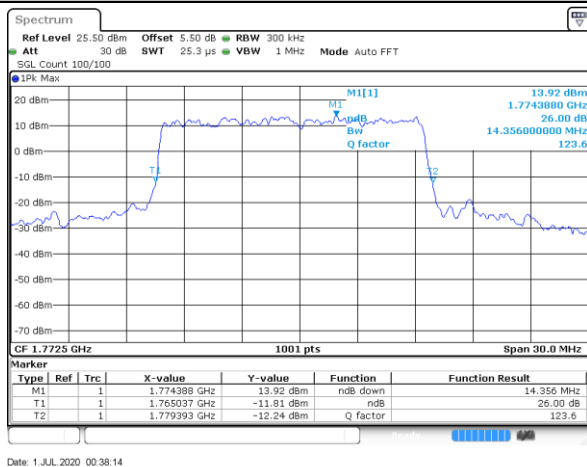
Middle Channel



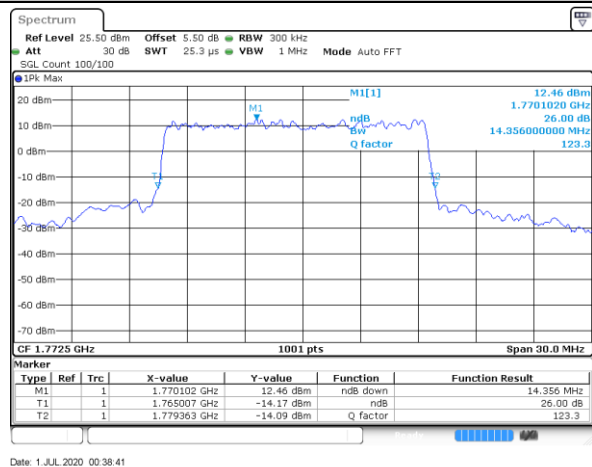
Middle Channel



Highest Channel



Highest Channel

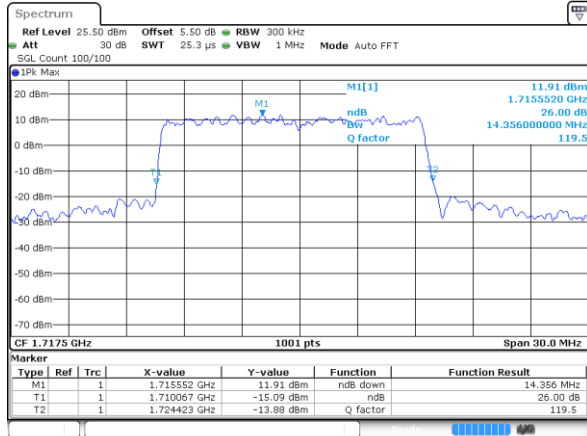




FR1 n66 / 15MHz / DFT-S OFDM

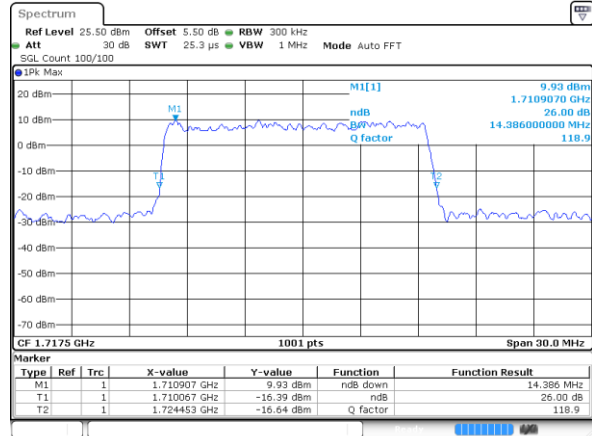
64QAM

Lowest Channel

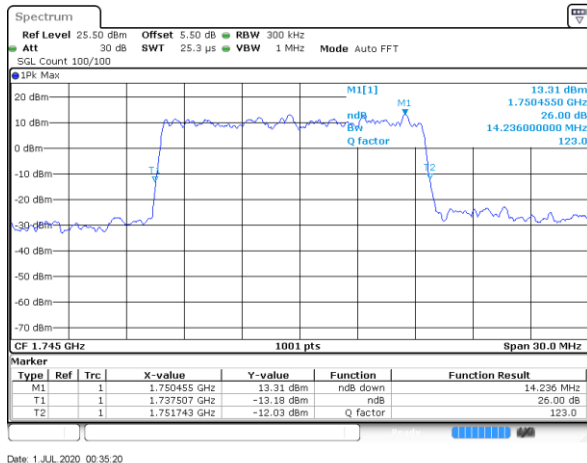


256QAM

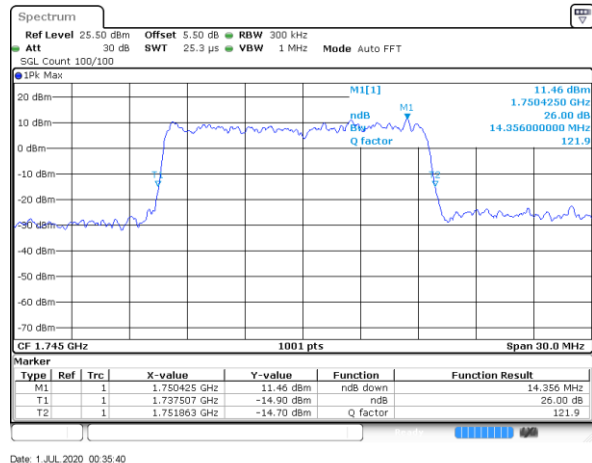
Lowest Channel



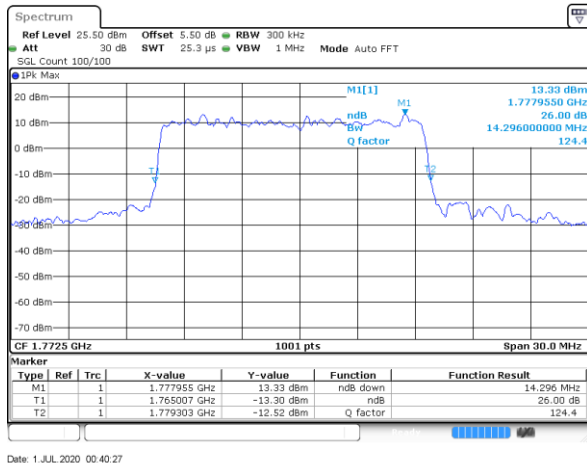
Middle Channel



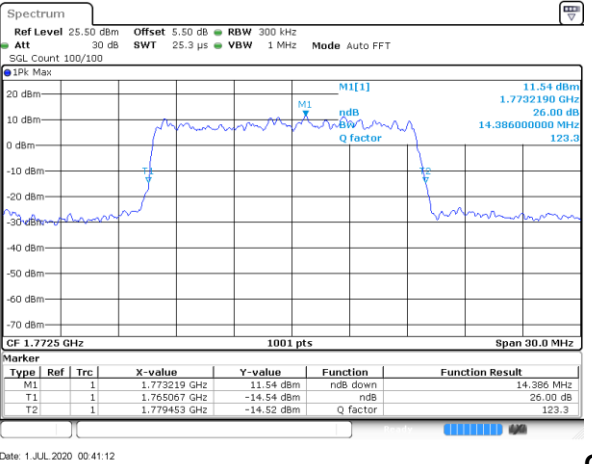
Middle Channel



Highest Channel



Highest Channel

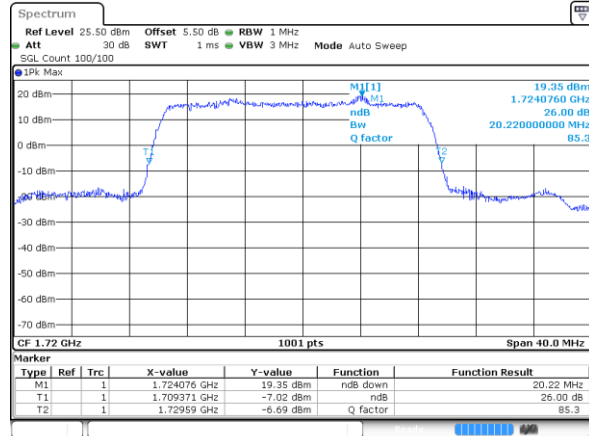




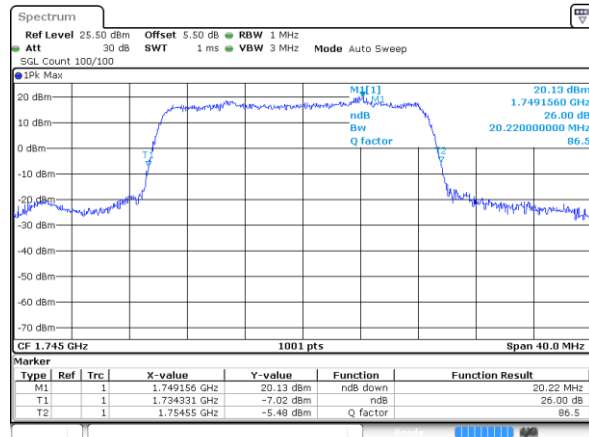
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

Lowest Channel



Middle Channel



Highest Channel

