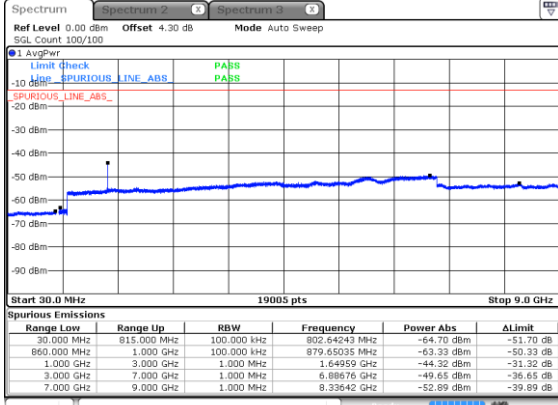


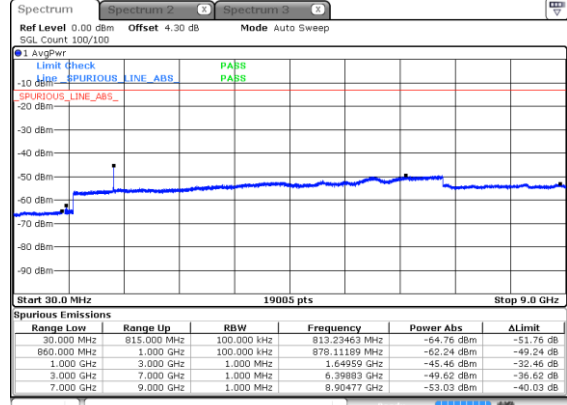


EN-DC\_66A\_n5A / LTE 10MHz + NR 20MHz

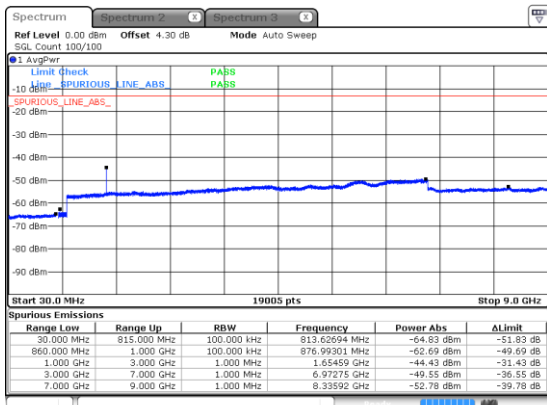
Lowest Channel / 16QAM



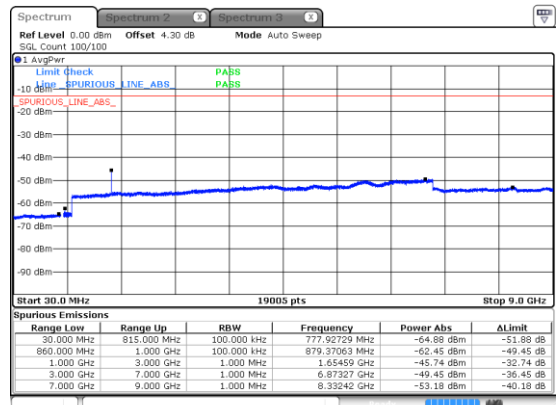
Lowest Channel / 64QAM



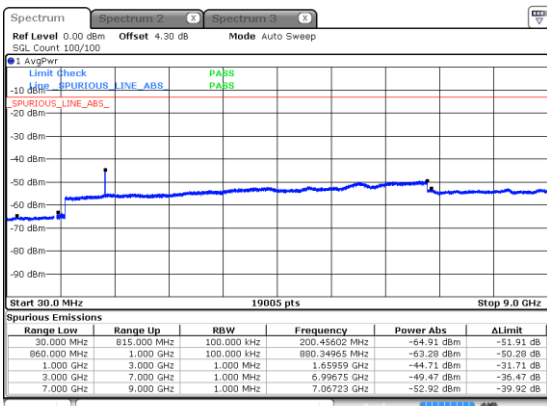
Middle Channel / 16QAM



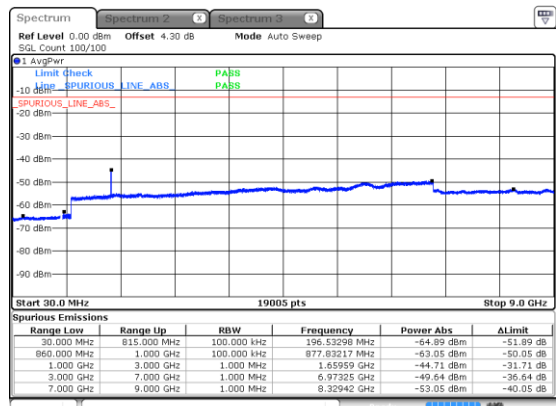
Middle Channel / 64QAM



Highest Channel / 16QAM



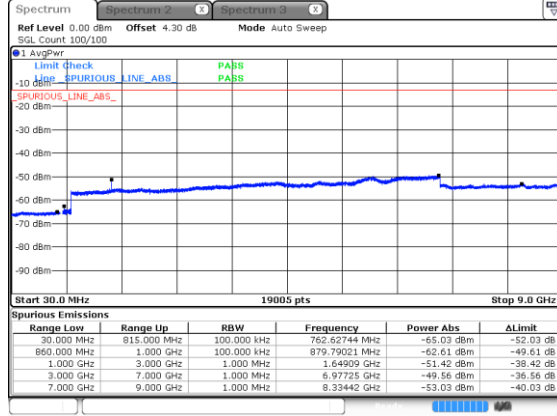
Highest Channel / 64QAM



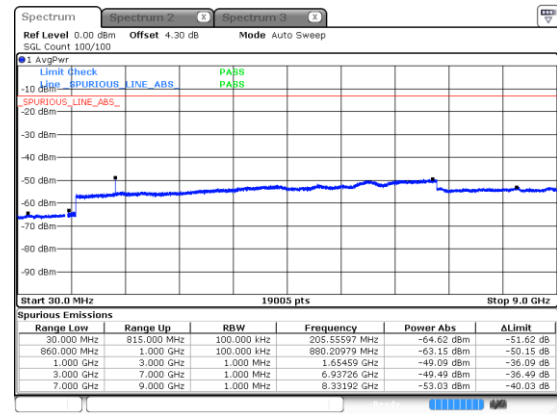


EN-DC\_66A\_n5A / LTE 10MHz + NR 20MHz

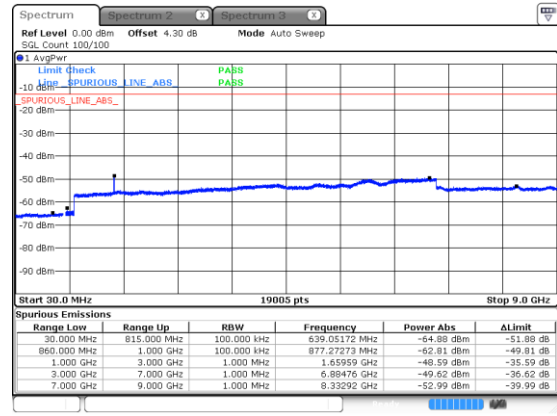
Lowest Channel / 256QAM



Middle Channel / 256QAM



Highest Channel / 256QAM





Frequency Stability

Test Conditions		EN-DC_66A_n5A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	LTE 10MHz + NR 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# 5G NR n12

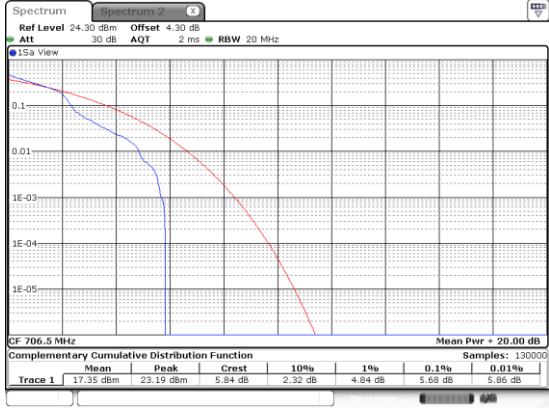
## Peak-to-Average Ratio

Mode	N12 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.68	5.30	6.03	6.12	PASS
Middle CH	5.68	5.30	5.97	6.17	
Highest CH	5.65	5.30	5.97	6.12	
Mode	N12 / 15MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.59	6.32	5.94	6.38	PASS
Middle CH	5.59	6.32	5.88	6.35	
Highest CH	5.51	6.38	5.88	6.14	
Mode	N12 / 15MHz				
Mod.	BPSK				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.68	4.17			PASS
Middle CH	4.29	4.14			
Highest CH	4.96	4.23			

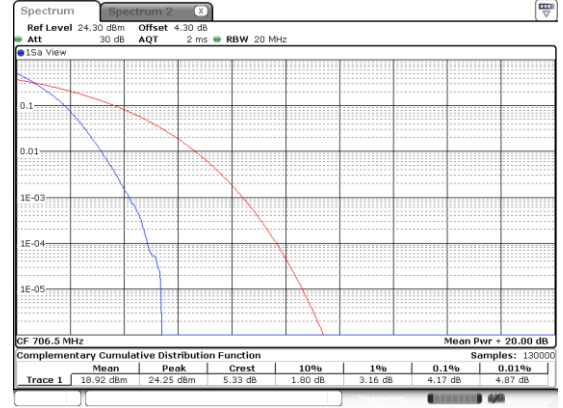


EN-DC\_2A\_n12A / LTE 10MHz + NR 15MHz / BPSK

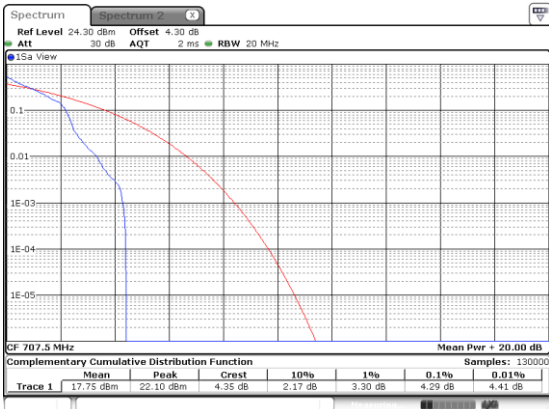
Lowest Channel / 1RB0



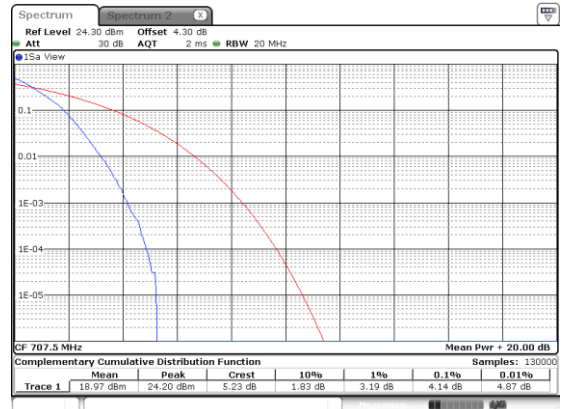
Lowest Channel / 75RB0



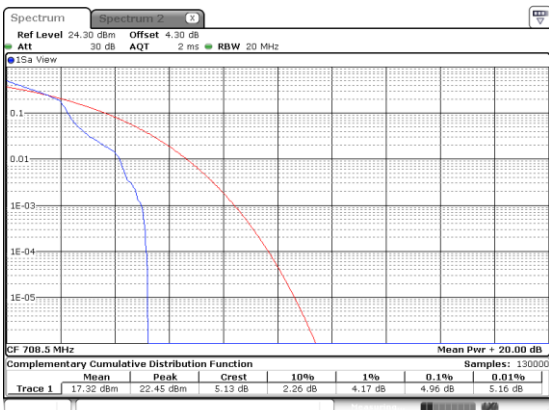
Middle Channel / 1RB0



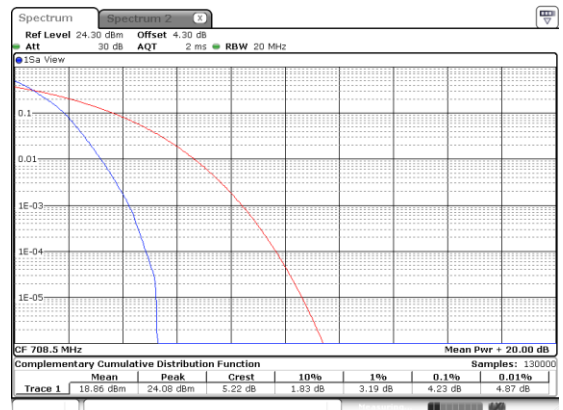
Middle Channel / 75RB0



Highest Channel / 1RB0



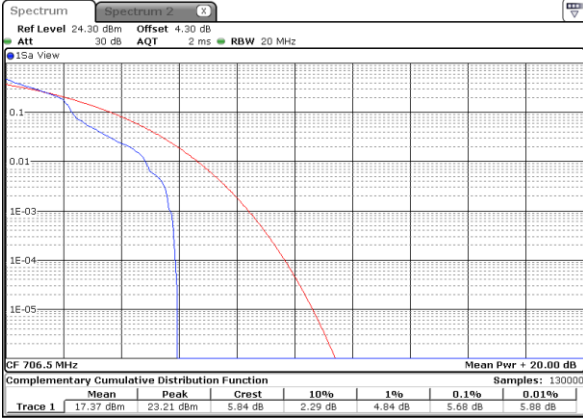
Highest Channel / 75RB0





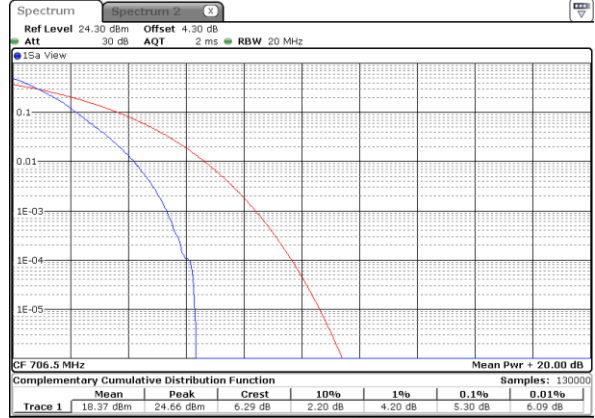
EN-DC\_2A\_n12A / LTE 10MHz + NR 15MHz / QPSK

Lowest Channel / 1RB0



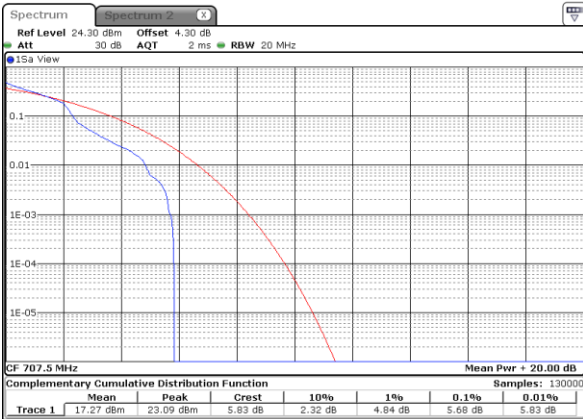
Date: 26 MAY 2020 23:42:15

Lowest Channel / 75RB0



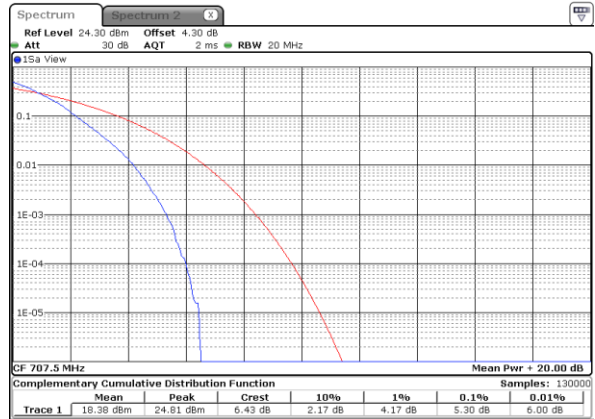
Date: 26 MAY 2020 23:38:34

Middle Channel / 1RB0



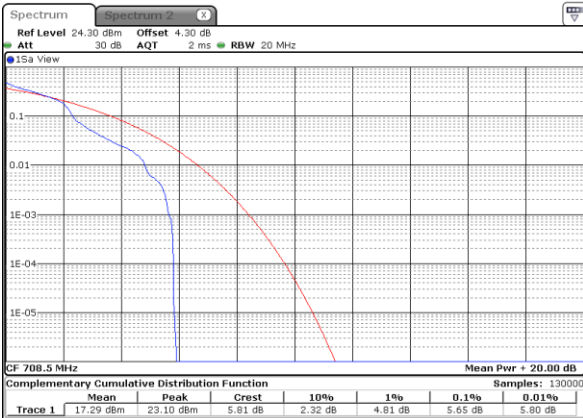
Date: 26 MAY 2020 23:55:47

Middle Channel / 75RB0



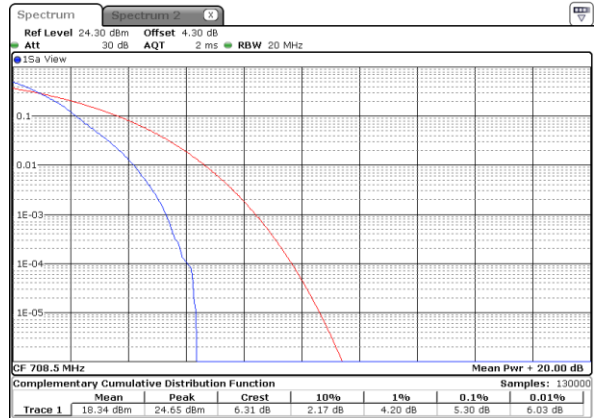
Date: 26 MAY 2020 23:53:36

Highest Channel / 1RB0



Date: 27 MAY 2020 00:01:28

Highest Channel / 75RB0

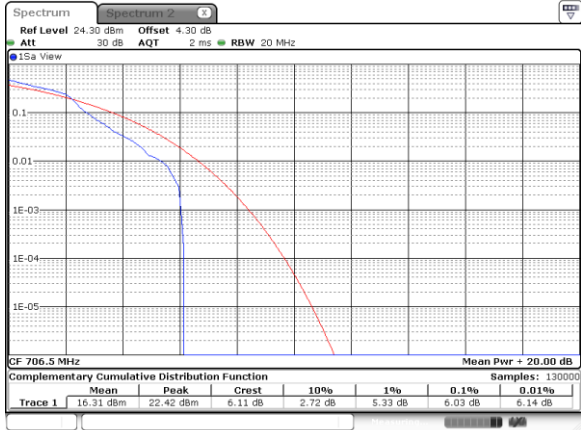


Date: 26 MAY 2020 23:59:23



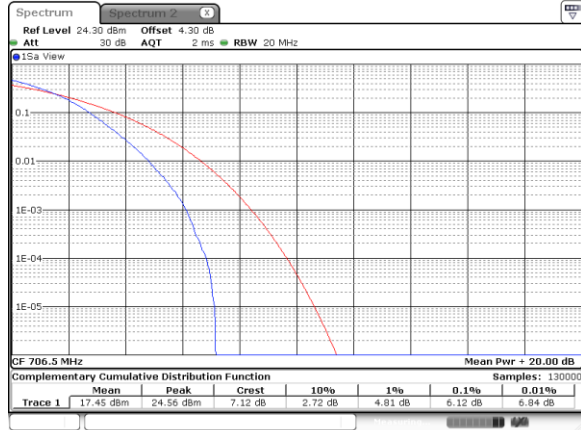
EN-DC\_2A\_n12A / LTE 10MHz + NR 15MHz / 16QAM

Lowest Channel / 1RB0



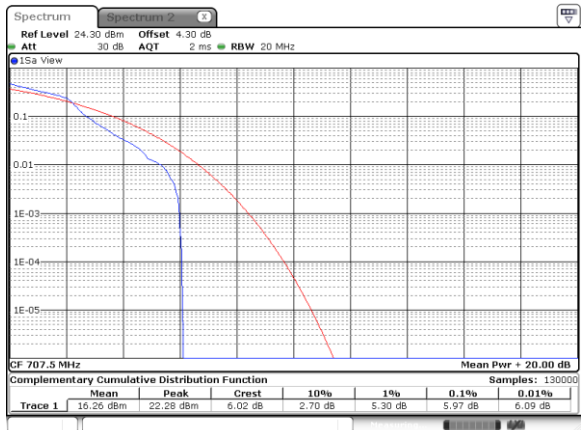
Date: 26 MAY 2020 23:42:24

Lowest Channel / 75RB0



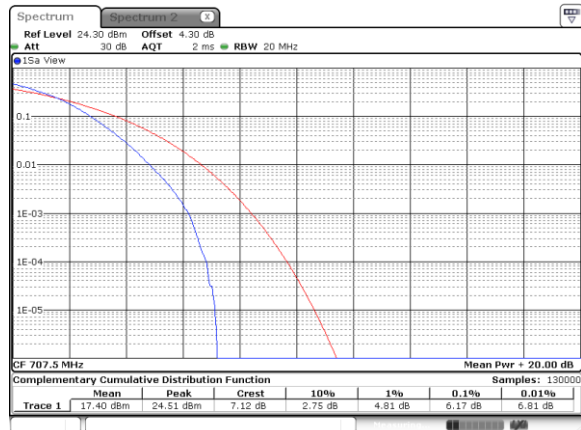
Date: 26 MAY 2020 23:39:54

Middle Channel / 1RB0



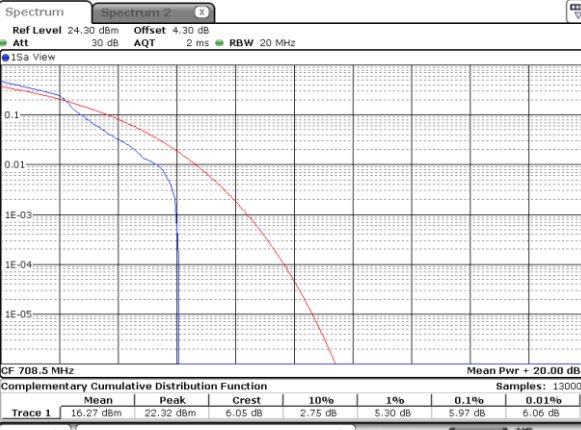
Date: 26 MAY 2020 23:55:59

Middle Channel / 75RB0



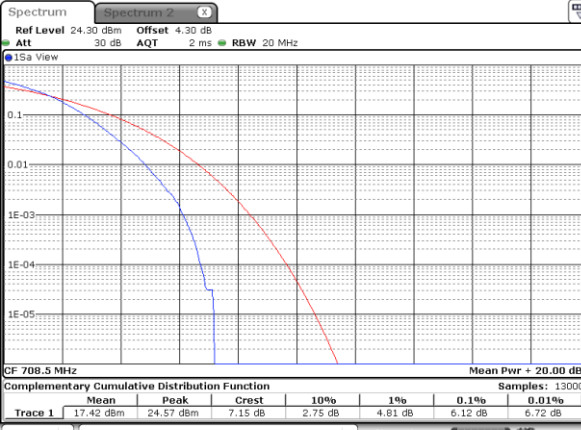
Date: 26 MAY 2020 23:54:02

Highest Channel / 1RB0



Date: 27 MAY 2020 00:01:43

Highest Channel / 75RB0

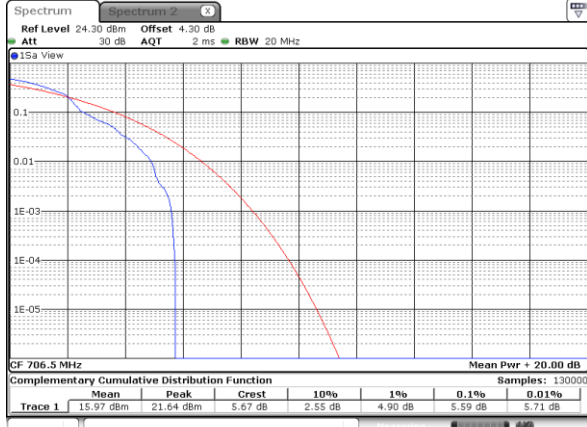


Date: 26 MAY 2020 23:58:48



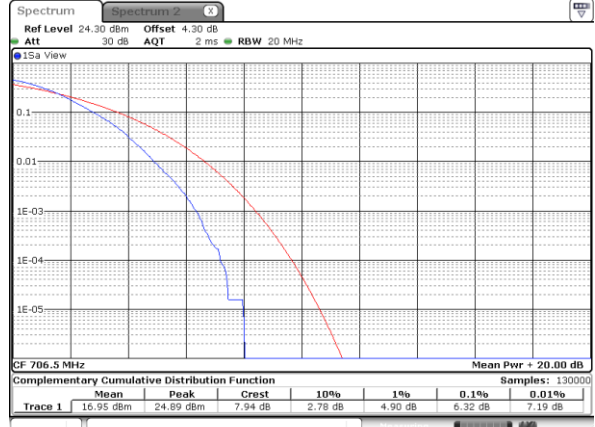
EN-DC\_2A\_n12A/LTE 10MHz + NR 15MHz / 64QAM

Lowest Channel / 1RB0



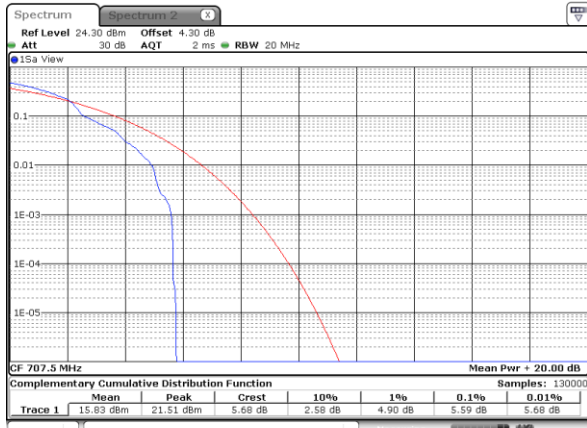
Date: 26 MAY 2020 23:42:41

Lowest Channel / 75RB0



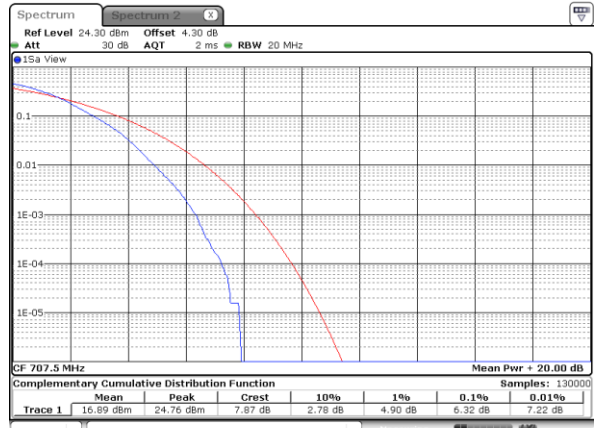
Date: 26 MAY 2020 23:40:20

Middle Channel / 1RB0



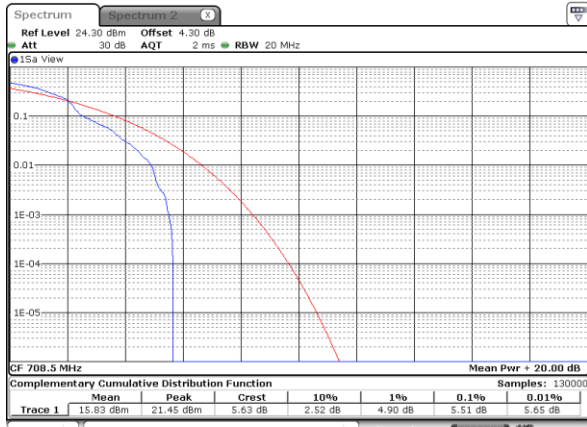
Date: 26 MAY 2020 23:56:10

Middle Channel / 75RB0



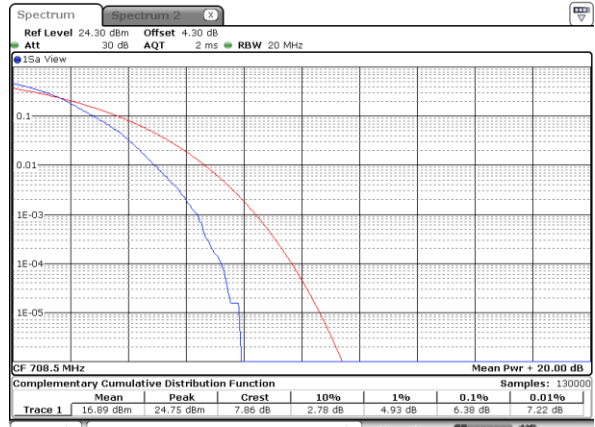
Date: 26 MAY 2020 23:54:26

Highest Channel / 1RB0



Date: 27 MAY 2020 00:01:57

Highest Channel / 75RB0



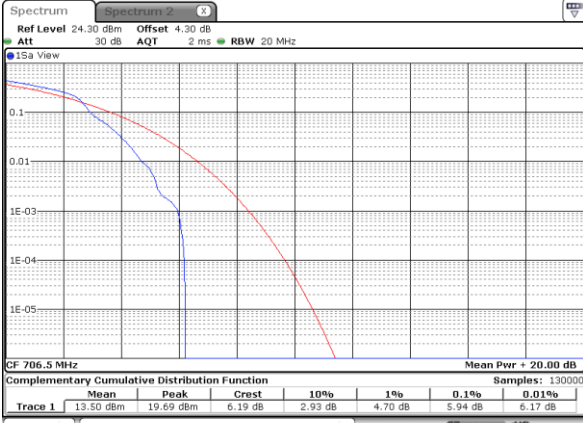
Date: 27 MAY 2020 00:00:12





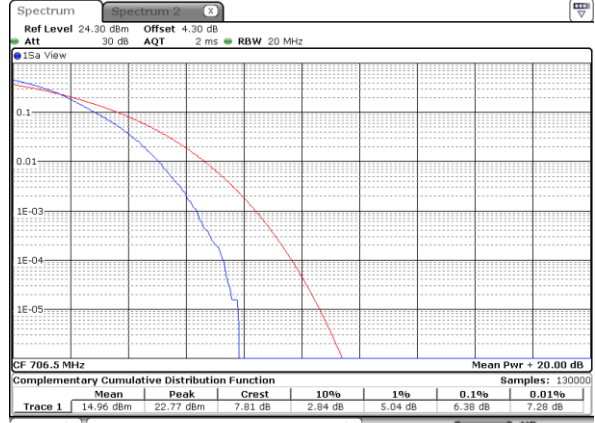
EN-DC\_2A\_n12A / LTE 10MHz + NR 15MHz / 256QAM

Lowest Channel / 1RB0



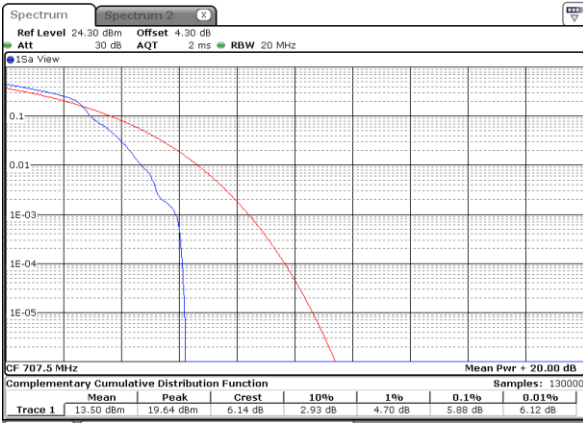
Date: 26 MAY 2020 23:41:41

Lowest Channel / 75RB0



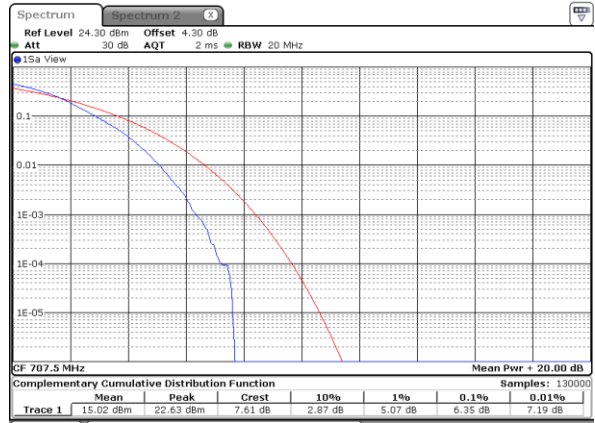
Date: 26 MAY 2020 23:38:33

Middle Channel / 1RB0



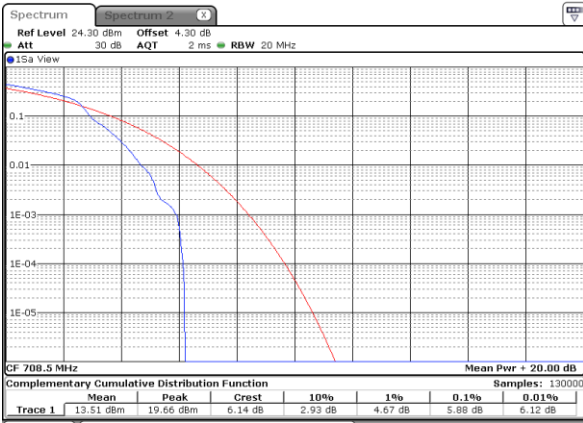
Date: 26 MAY 2020 23:55:03

Middle Channel / 75RB0



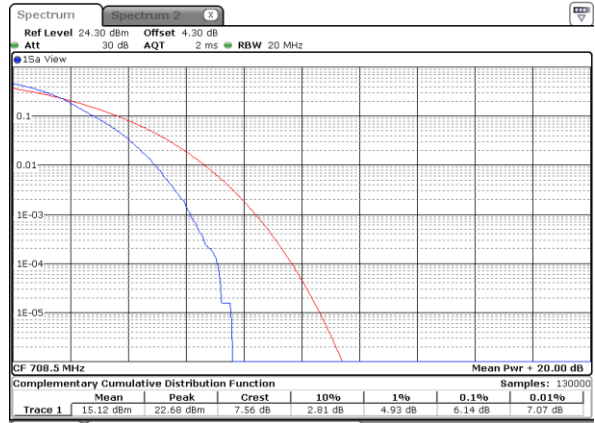
Date: 26 MAY 2020 23:52:31

Highest Channel / 1RB0



Date: 27 MAY 2020 00:00:42

Highest Channel / 75RB0



Date: 26 MAY 2020 23:57:38



**26dB Bandwidth**

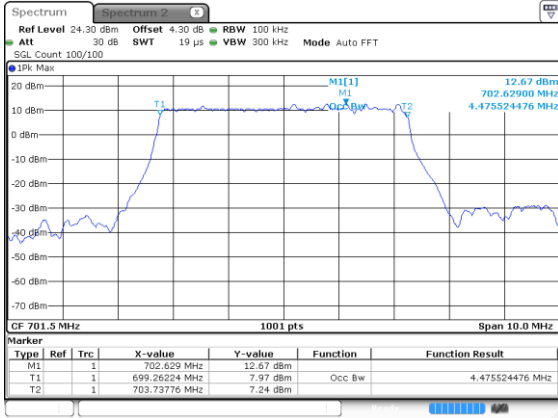
Mode	N12 : 26dB BW(MHz)											
BW	5 MHz		10 MHz		15 MHz		5 MHz		10 MHz		15 MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.095	5.185	9.97	9.89	14.266	14.416	5.085	5.095	9.85	10.09	14.446	14.595
Middle CH	5.125	4.825	10.05	9.91	14.386	14.326	5.005	4.965	9.71	9.65	14.296	14.356
Highest CH	5.025	5.175	9.83	9.65	14.595	14.386	5.145	5.055	10.03	9.67	14.446	14.416
Mode	N12 : 26dB BW(MHz)											
BW	5 MHz		10 MHz		15 MHz							
Mod.	BPSK		BPSK		BPSK							
Lowest CH	5.175		9.81		14.356							
Middle CH	5.195		9.73		14.386							
Highest CH	5.195		9.83		14.266							



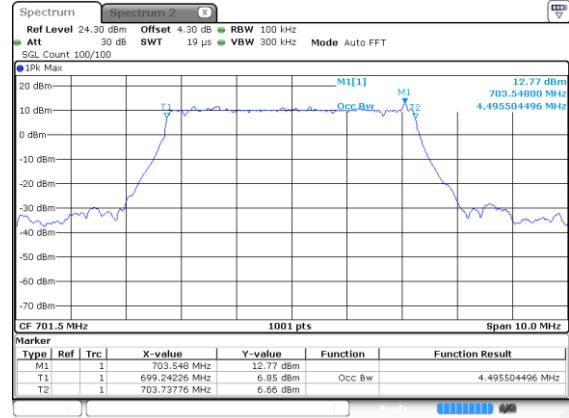
EN-DC\_1A\_n12A

Combination LTE 20MHz + NR 5MHz

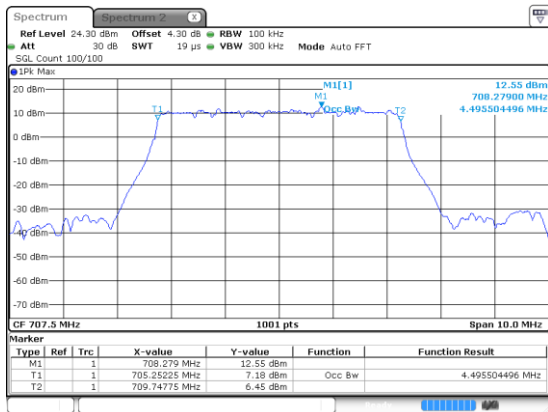
Lowest Channel / BPSK



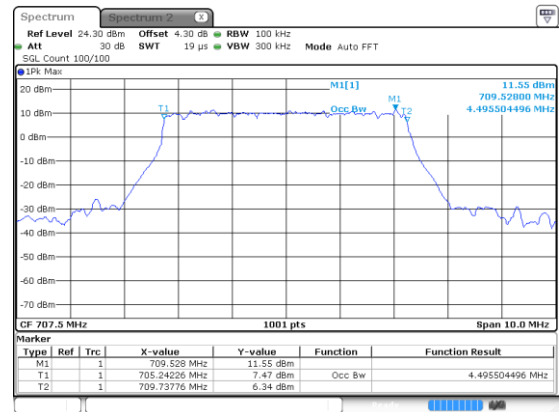
Lowest Channel / QPSK



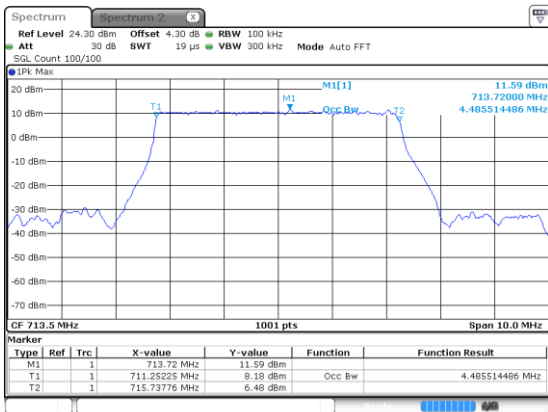
Middle Channel / BPSK



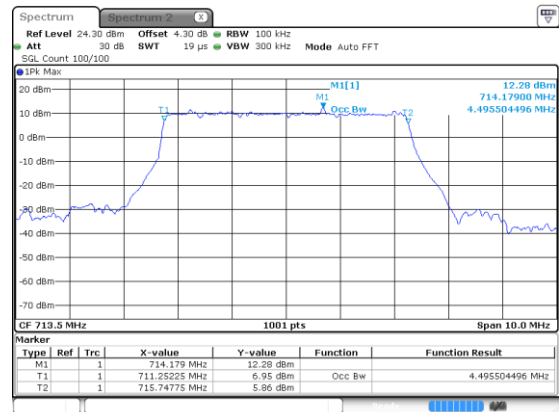
Middle Channel / QPSK



Highest Channel / BPSK



Highest Channel / QPSK

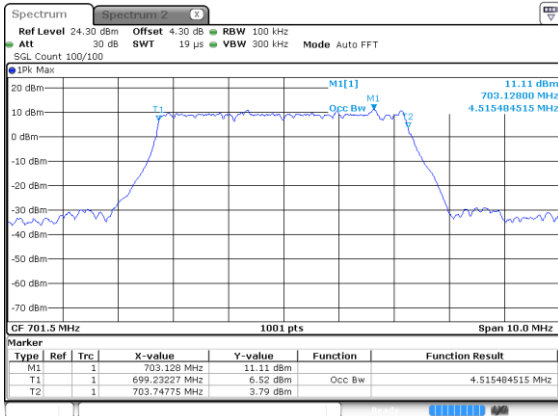




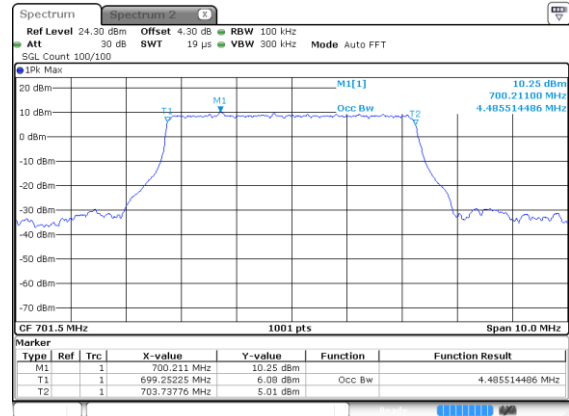
EN-DC\_1A\_n12A

Combination LTE 20MHz + NR 5MHz

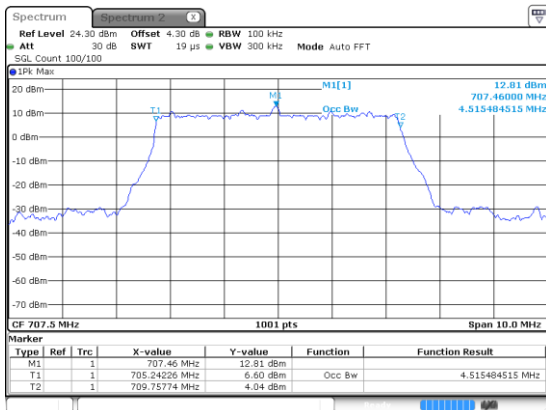
Lowest Channel / 16QAM



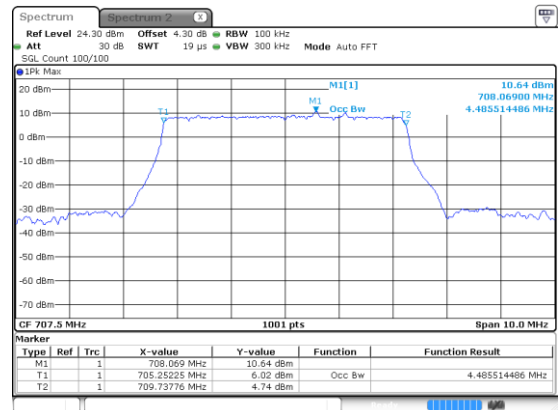
Lowest Channel / 64QAM



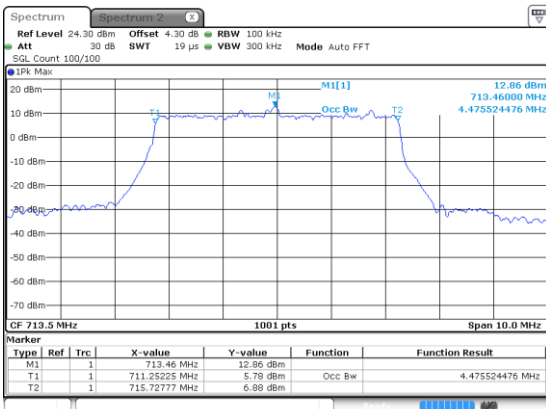
Middle Channel / 16QAM



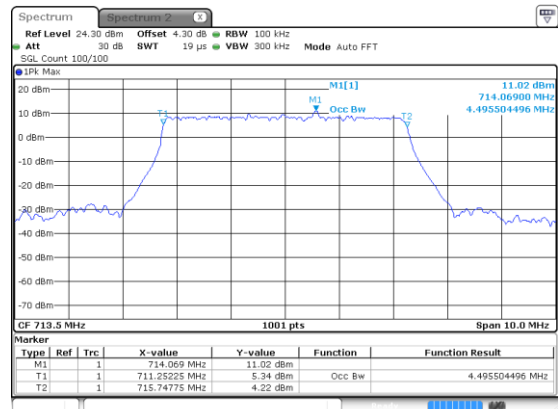
Middle Channel / 64QAM

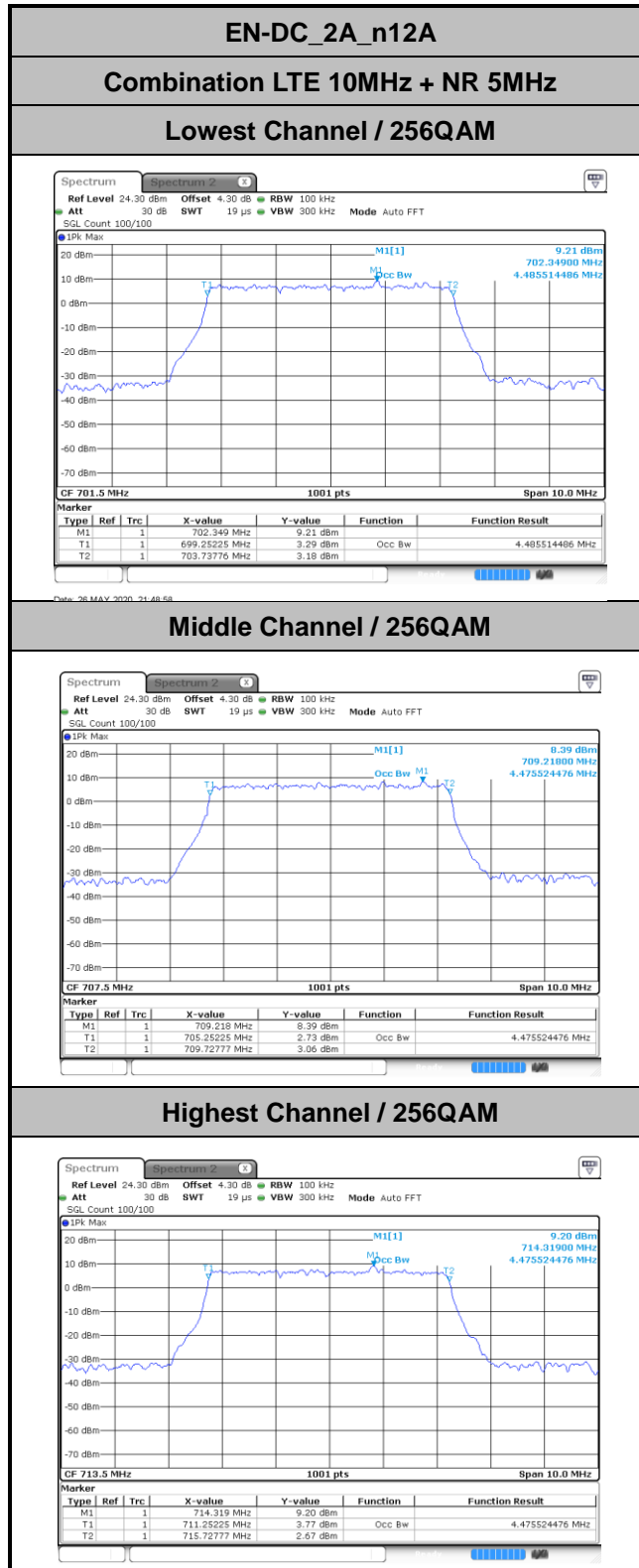


Highest Channel / 16QAM



Highest Channel / 64QAM



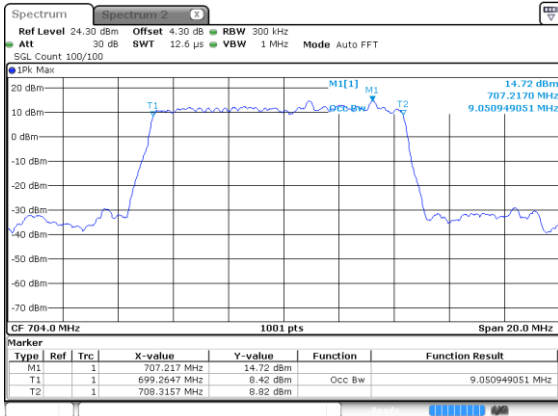




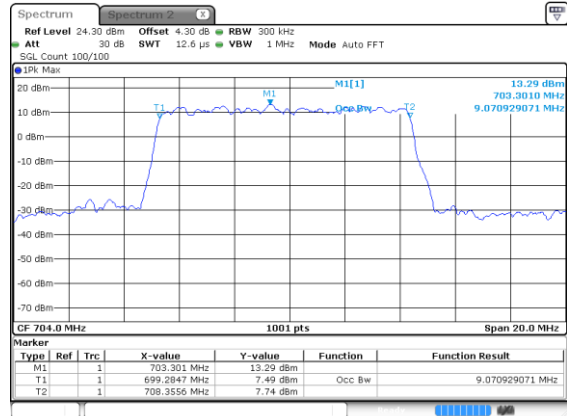
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 10MHz

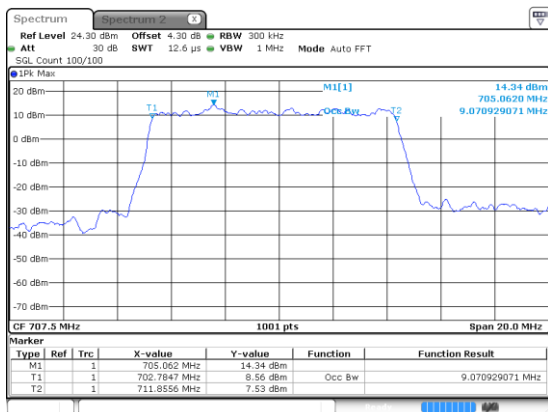
Lowest Channel / BPSK



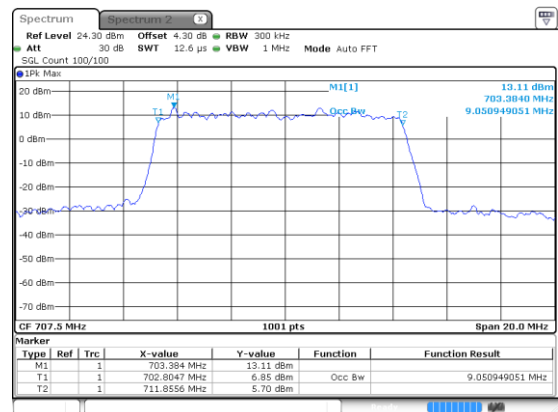
Lowest Channel / QPSK



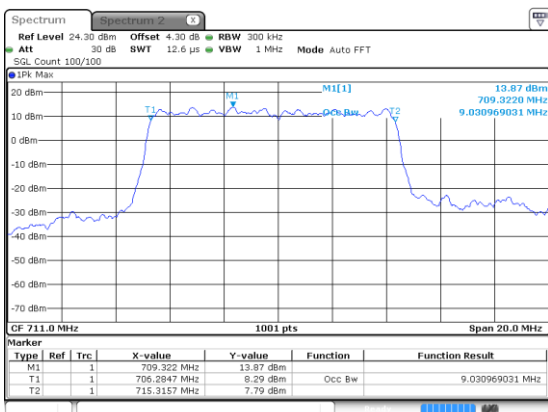
Middle Channel / BPSK



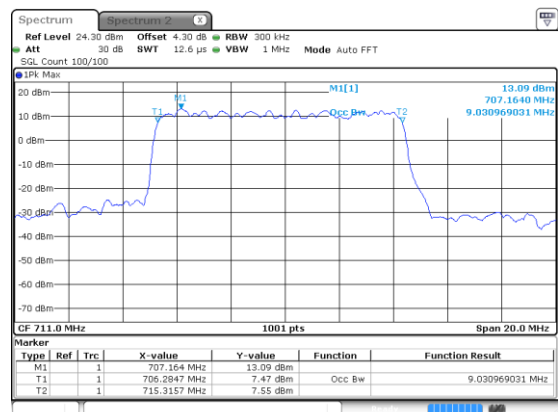
Middle Channel / QPSK



Highest Channel / BPSK



Highest Channel / QPSK

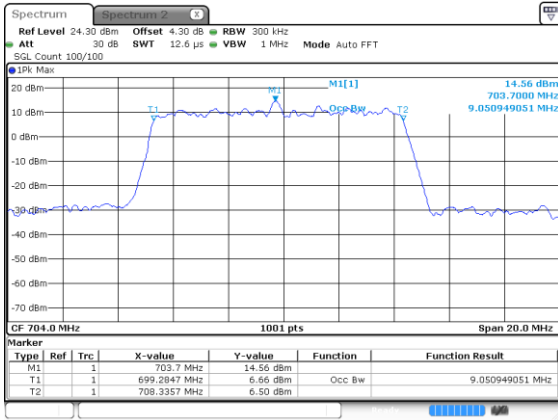




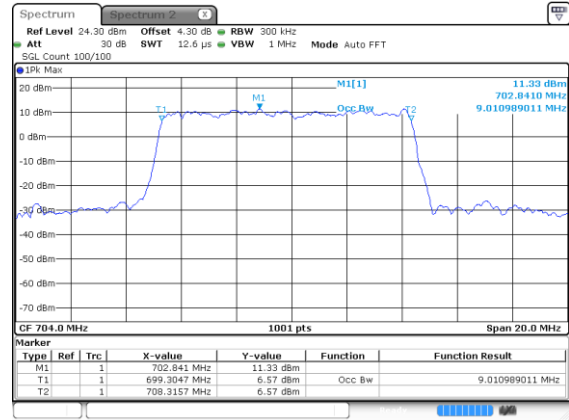
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 10MHz

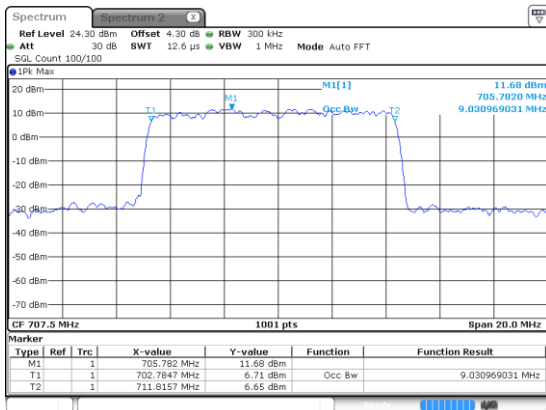
Lowest Channel / 16QAM



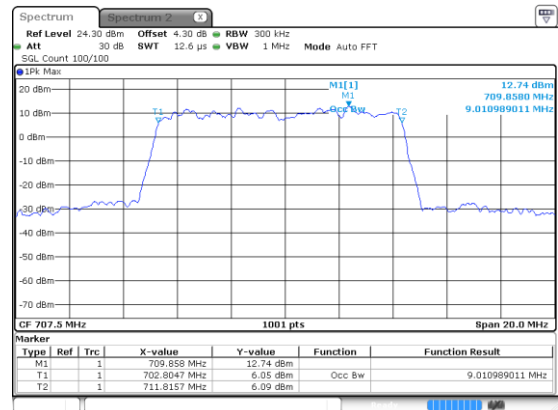
Lowest Channel / 64QAM



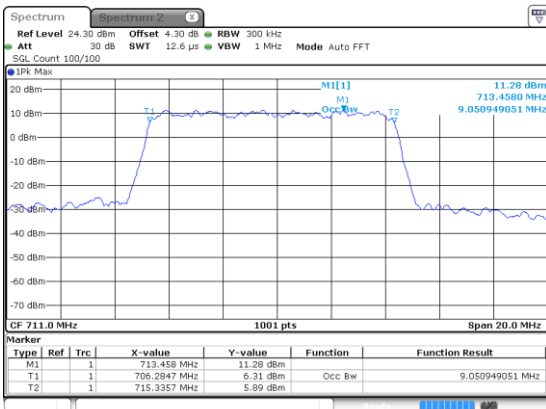
Middle Channel / 16QAM



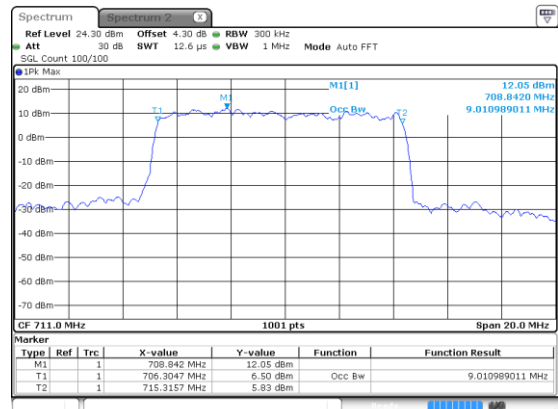
Middle Channel / 64QAM

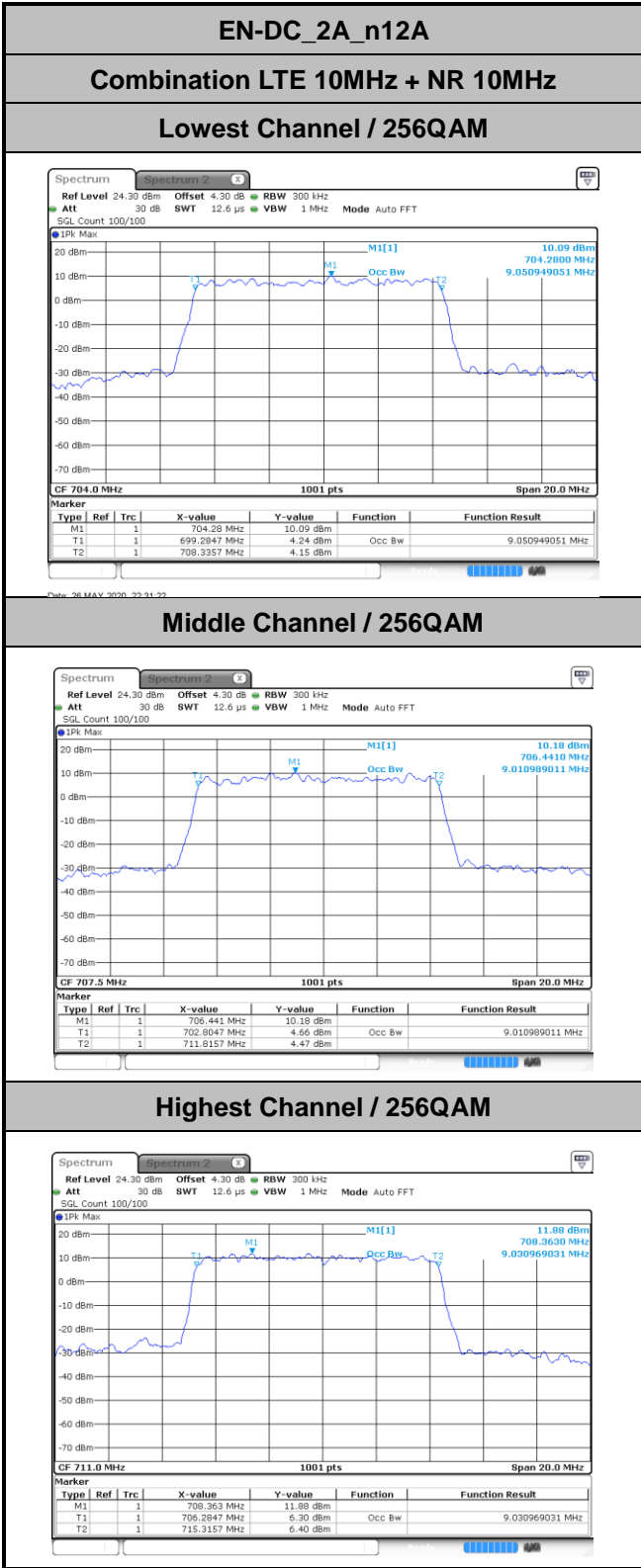


Highest Channel / 16QAM



Highest Channel / 64QAM





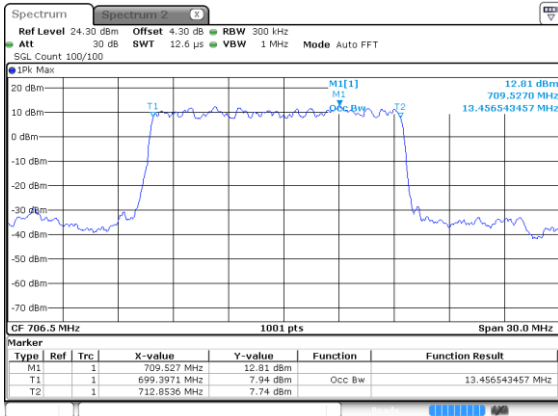




EN-DC\_2A\_n12A

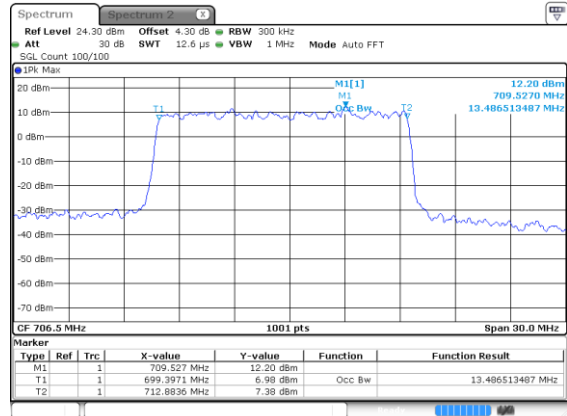
Combination LTE 10MHz + NR 15MHz

Lowest Channel / BPSK



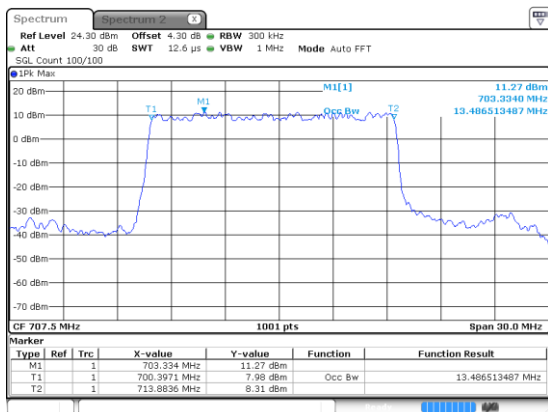
Date: 26 MAY 2020 23:22:14

Lowest Channel / QPSK



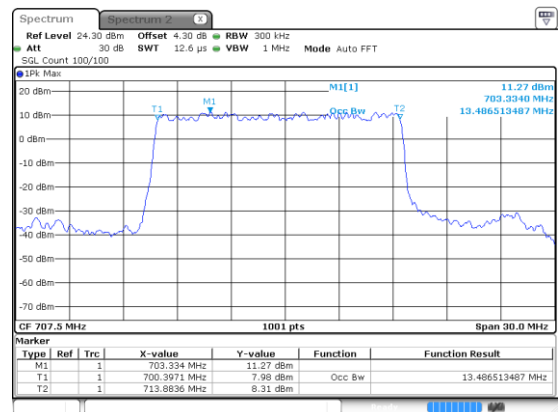
Date: 26 MAY 2020 23:28:26

Middle Channel / BPSK



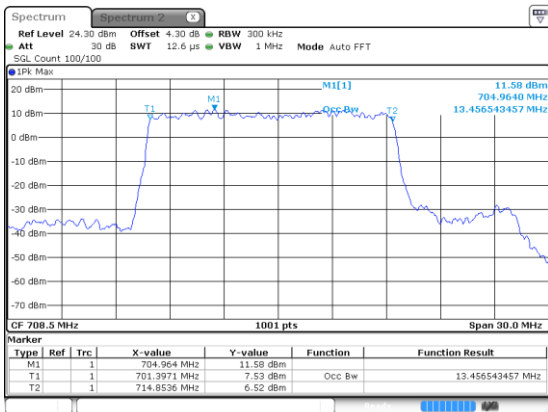
Date: 26 MAY 2020 23:22:14

Middle Channel / QPSK



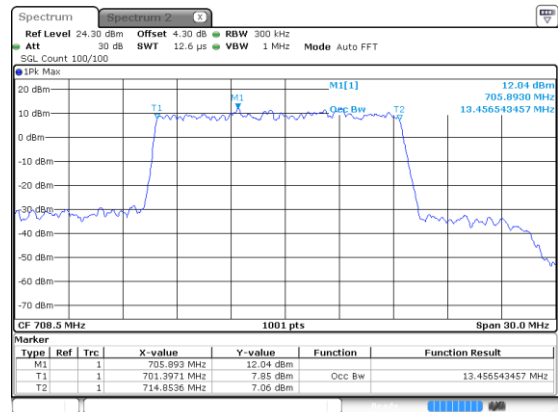
Date: 26 MAY 2020 23:28:26

Highest Channel / BPSK



Date: 26 MAY 2020 23:22:14

Highest Channel / QPSK



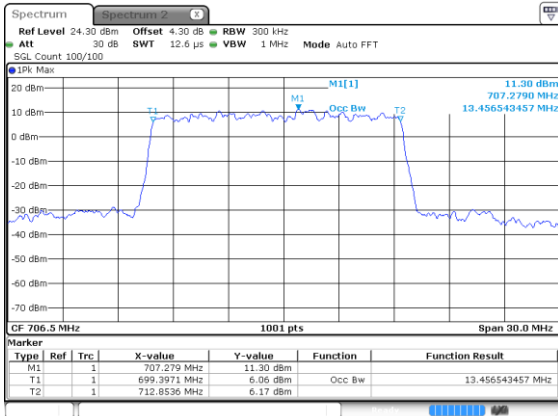
Date: 26 MAY 2020 23:28:26



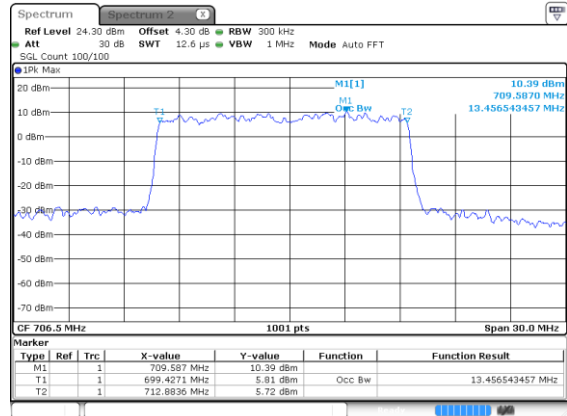
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 15MHz

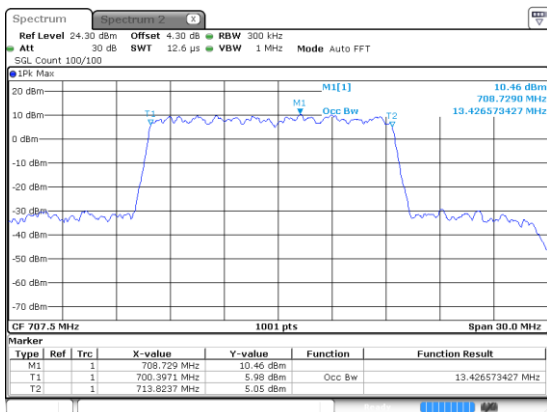
Lowest Channel / 16QAM



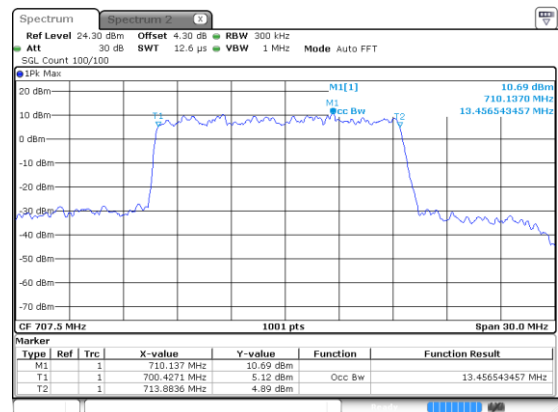
Lowest Channel / 64QAM



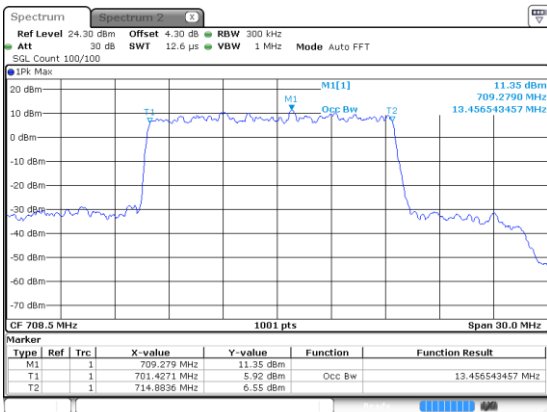
Middle Channel / 16QAM



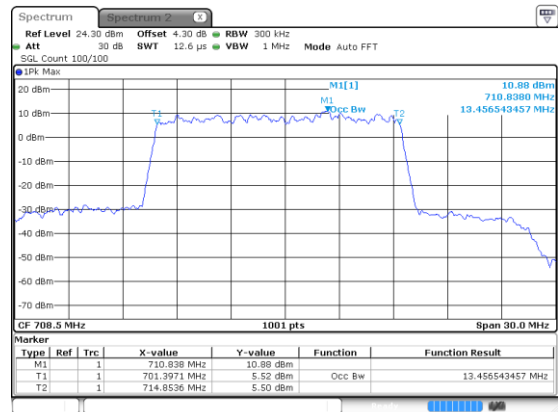
Middle Channel / 64QAM

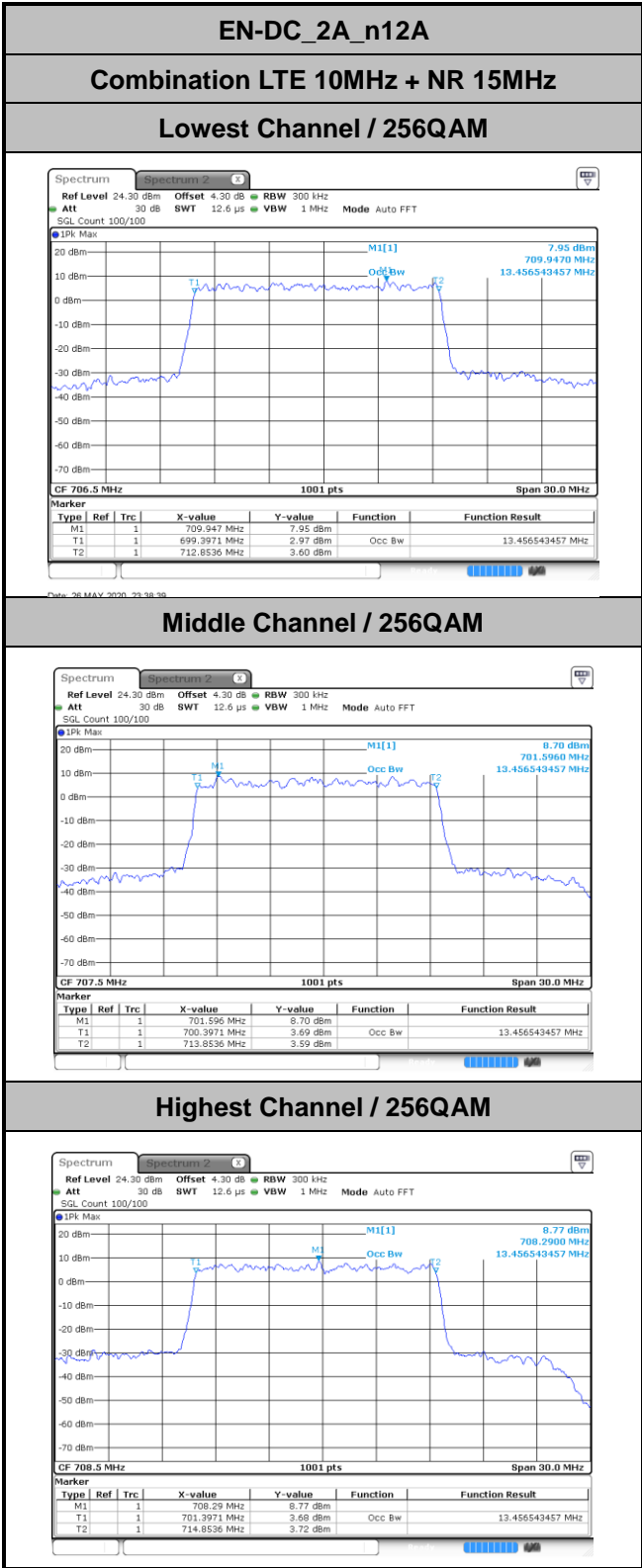


Highest Channel / 16QAM



Highest Channel / 64QAM







Occupied Bandwidth

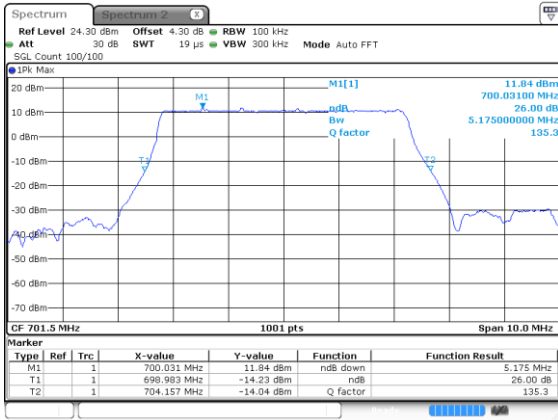
Mode	N12 : OB BW(MHz)											
BW	5 MHz		10 MHz		15 MHz		5 MHz		10 MHz		15 MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.496	4.515	9.071	9.051	13.487	13.457	4.486	4.486	9.011	9.051	13.457	13.457
Middle CH	4.496	4.515	9.051	9.031	13.487	13.427	4.486	4.476	9.011	9.011	13.457	13.457
Highest CH	4.496	4.476	9.031	9.051	13.457	13.457	4.496	4.476	9.011	9.031	13.457	13.457
Mode	N12 : OB BW(MHz)											
BW	5 MHz		10 MHz		15 MHz							
Mod.	BPSK		BPSK		BPSK							
Lowest CH	4.476		9.051		13.457							
Middle CH	4.496		9.071		13.487							
Highest CH	4.486		9.031		13.457							



EN-DC\_2A\_n12A

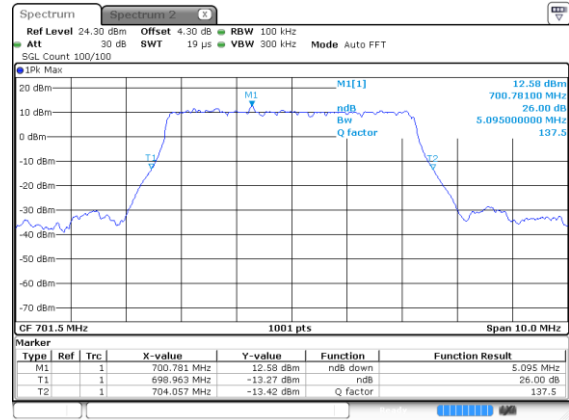
Combination LTE 10MHz + NR 5MHz

Lowest Channel / BPSK



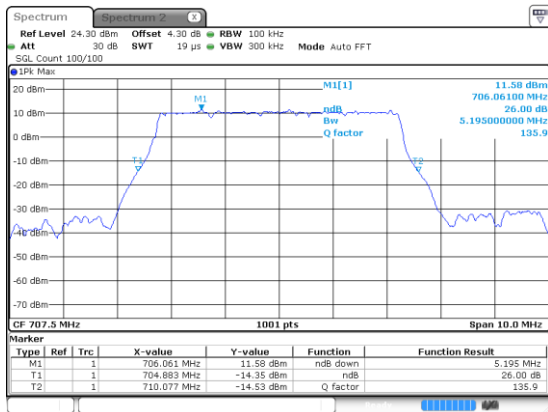
Date: 26 MAY 2020 21:47:13

Lowest Channel / QPSK

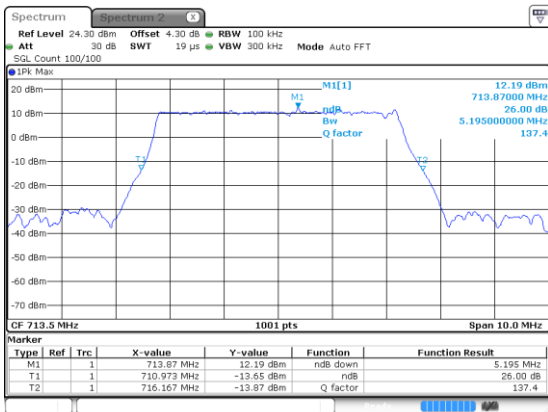


Date: 26 MAY 2020 21:51:08

Middle Channel / BPSK

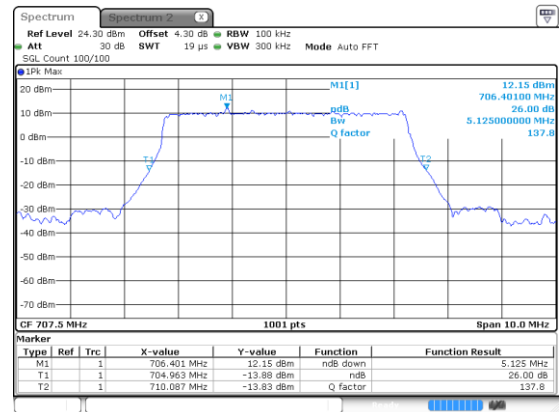


Highest Channel / BPSK

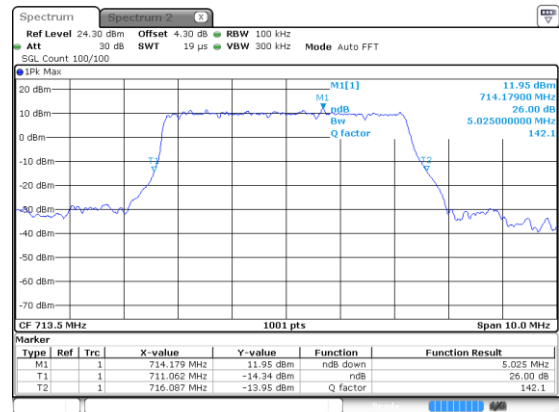


Date: 26 MAY 2020 21:51:08

Middle Channel / QPSK



Highest Channel / QPSK



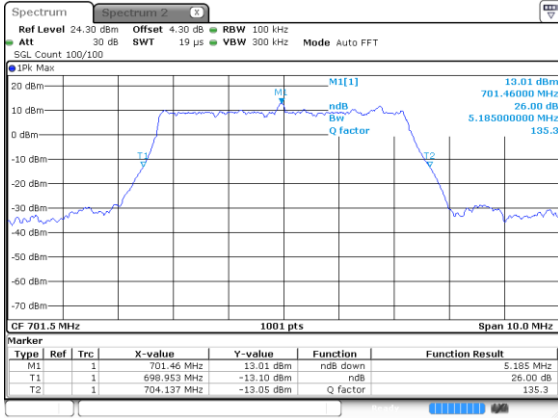
Date: 26 MAY 2020 21:51:08



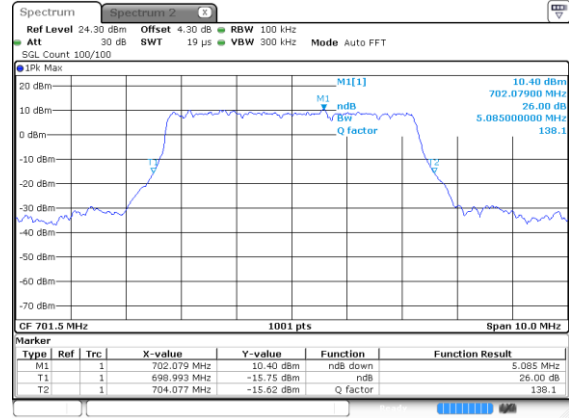
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 5MHz

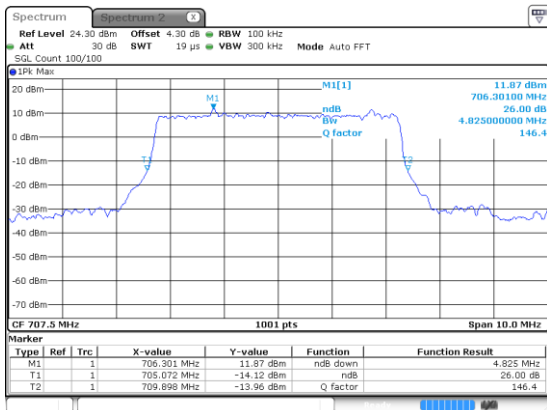
Lowest Channel / 16QAM



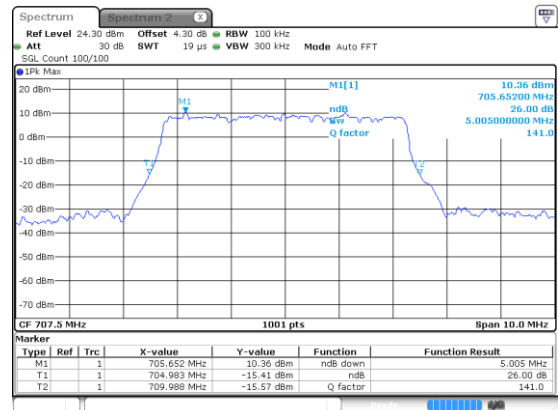
Lowest Channel / 64QAM



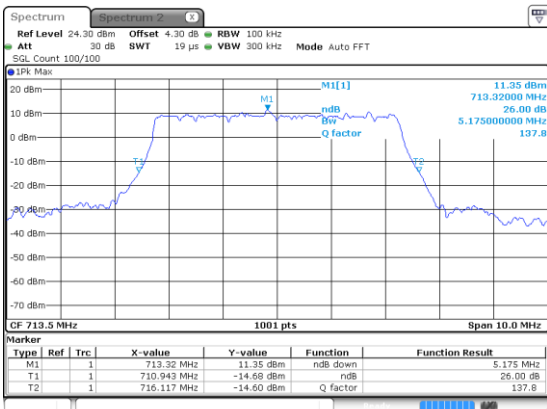
Middle Channel / 16QAM



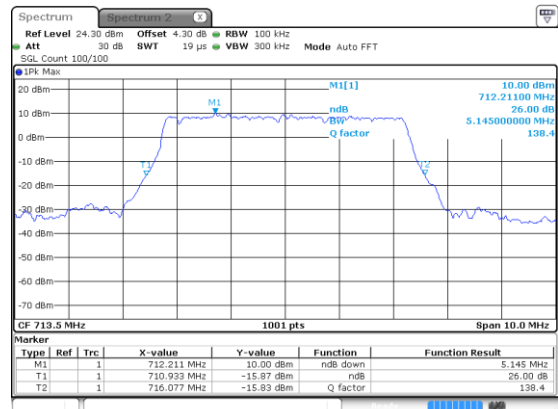
Middle Channel / 64QAM

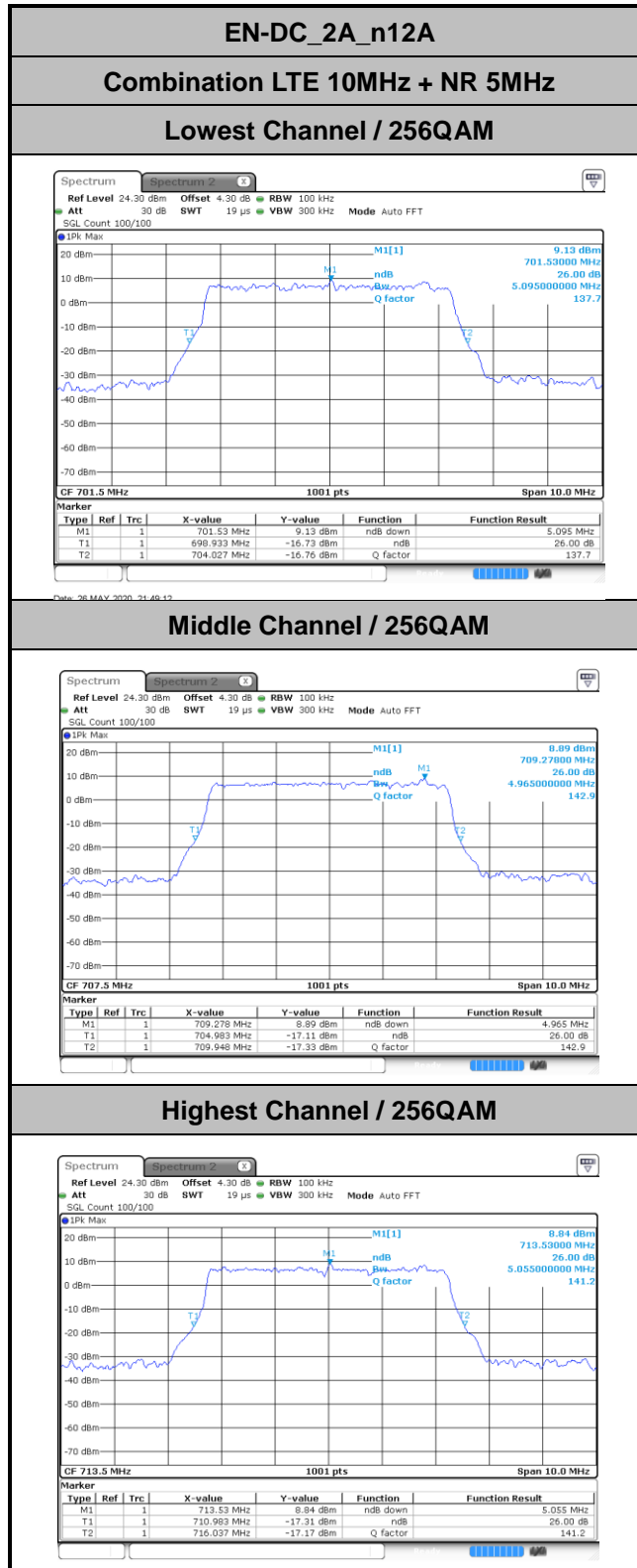


Highest Channel / 16QAM



Highest Channel / 64QAM



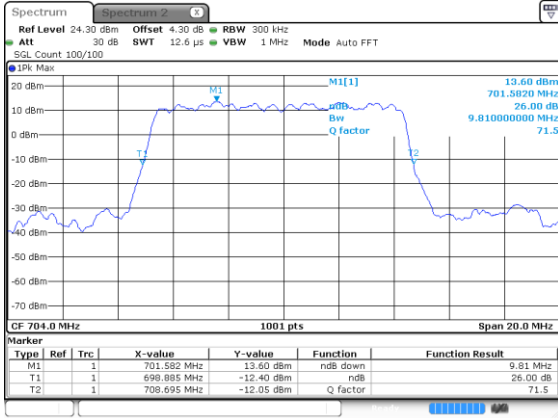




EN-DC\_2A\_n12A

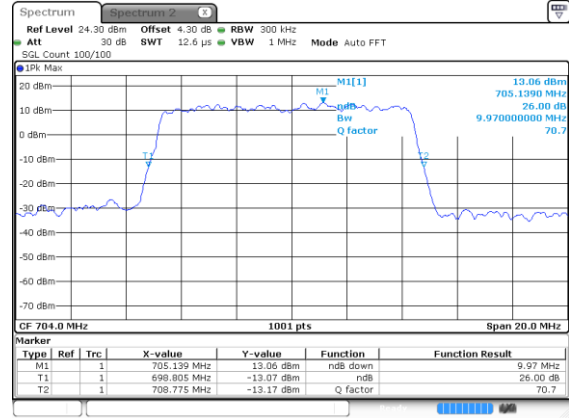
Combination LTE 10MHz + NR 10MHz

Lowest Channel / BPSK



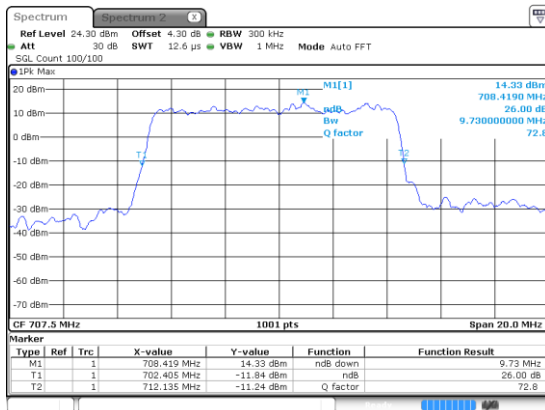
Date: 28 MAY 2020 22:30:01

Lowest Channel / QPSK

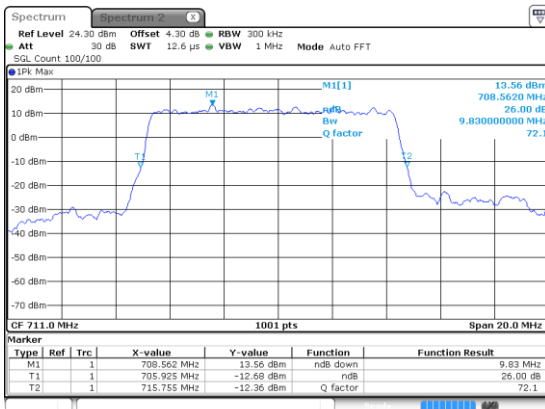


Date: 28 MAY 2020 22:32:48

Middle Channel / BPSK

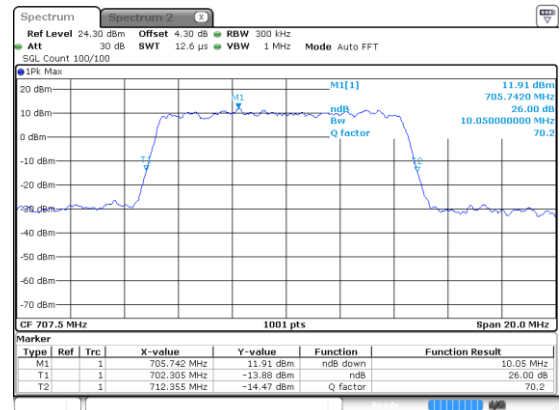


Highest Channel / BPSK

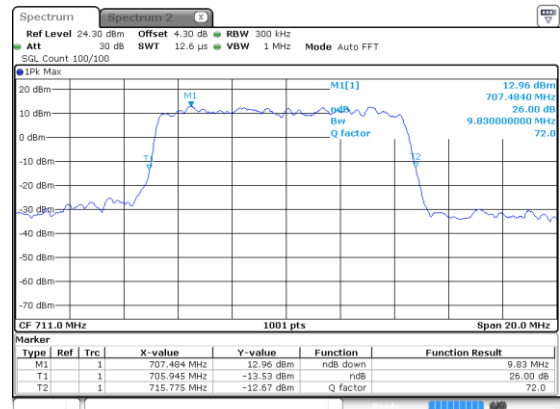


Date: 28 MAY 2020 22:30:01

Middle Channel / QPSK



Highest Channel / QPSK



Date: 28 MAY 2020 22:32:48

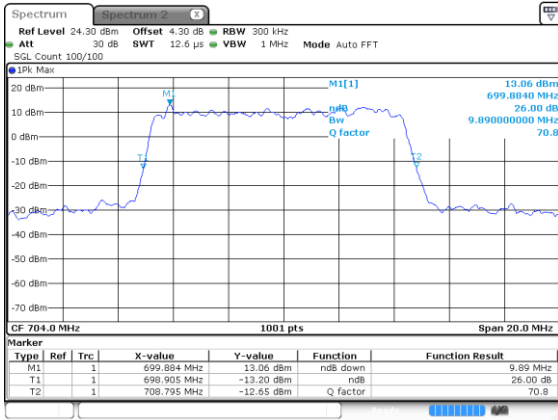




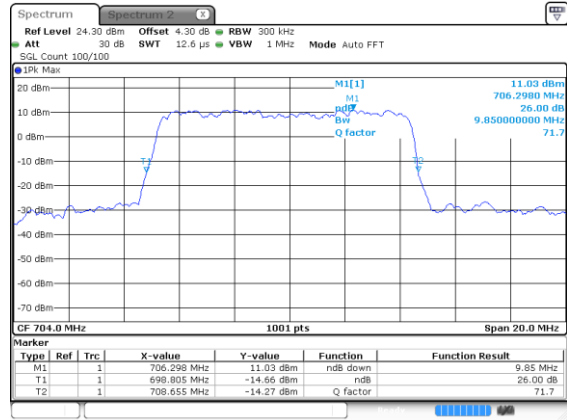
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 10MHz

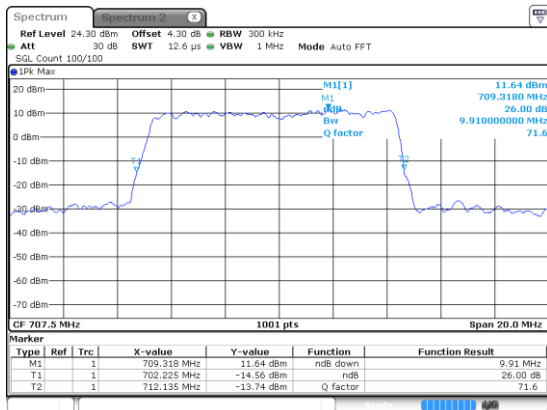
Lowest Channel / 16QAM



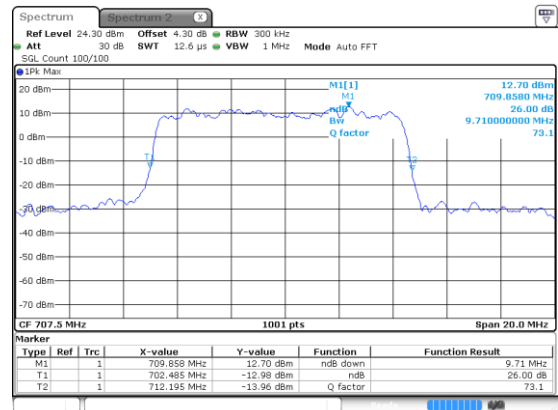
Lowest Channel / 64QAM



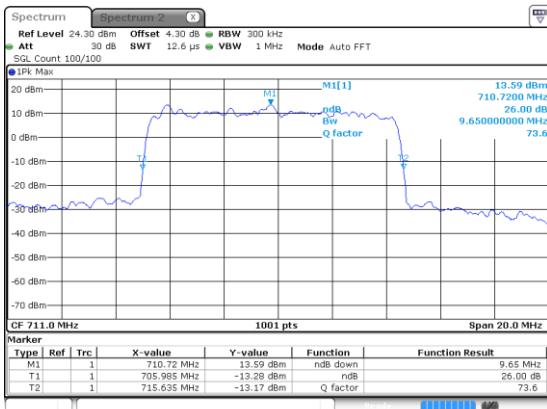
Middle Channel / 16QAM



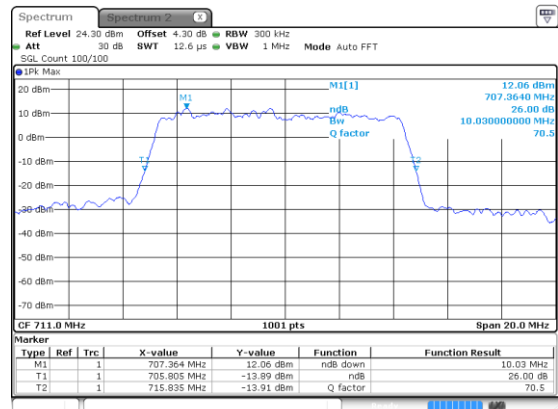
Middle Channel / 64QAM

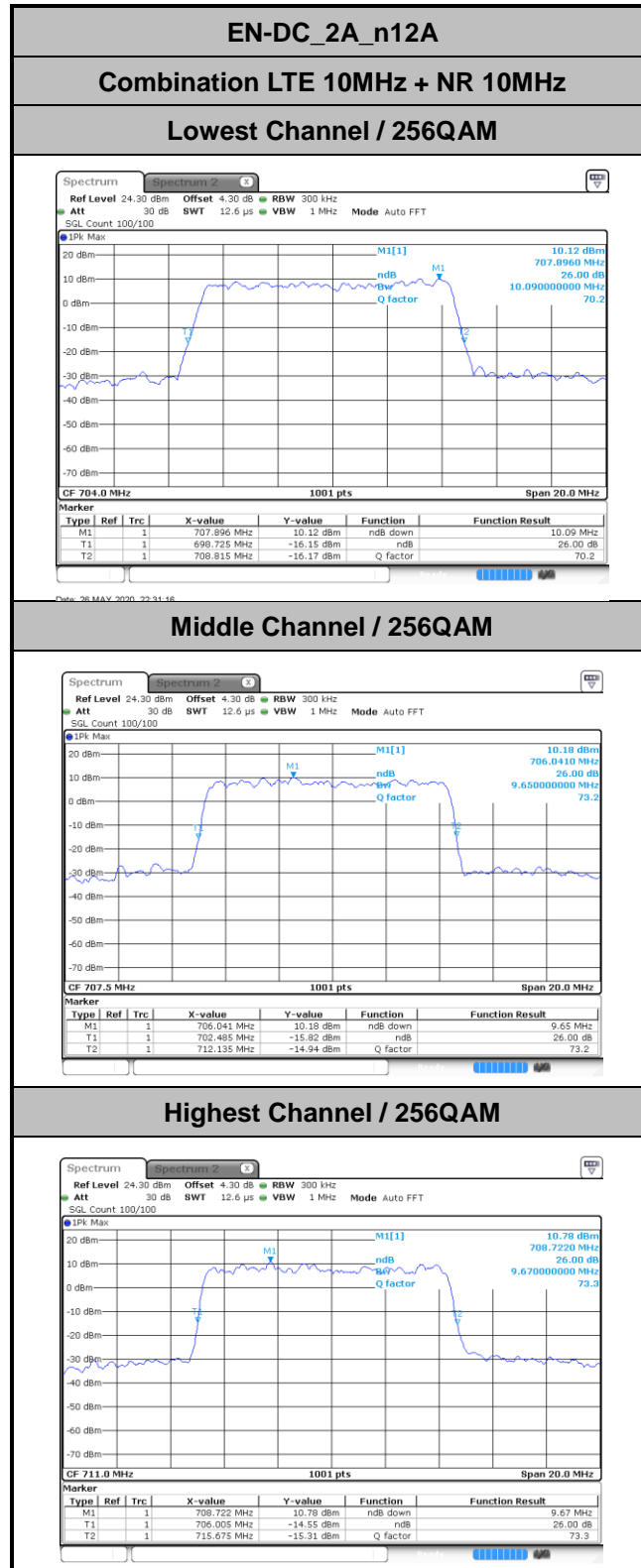


Highest Channel / 16QAM



Highest Channel / 64QAM



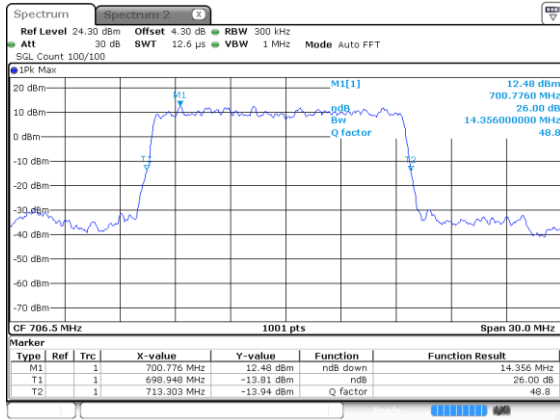




EN-DC\_2A\_n12A

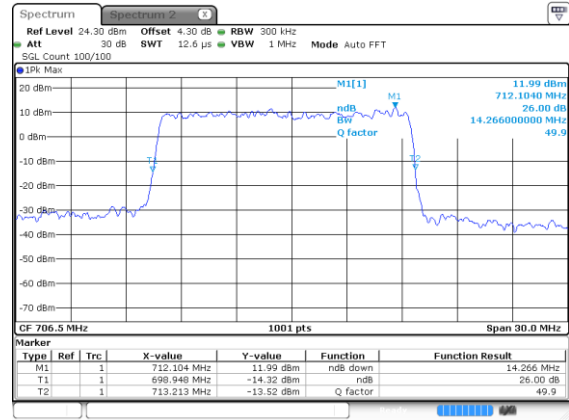
Combination LTE 10MHz + NR 15MHz

Lowest Channel / BPSK



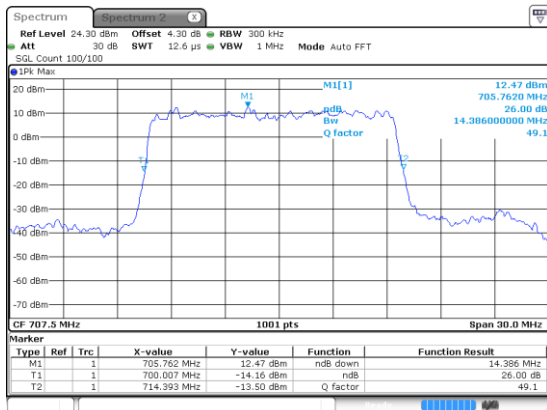
Date: 26 MAY 2020 23:22:20

Lowest Channel / QPSK



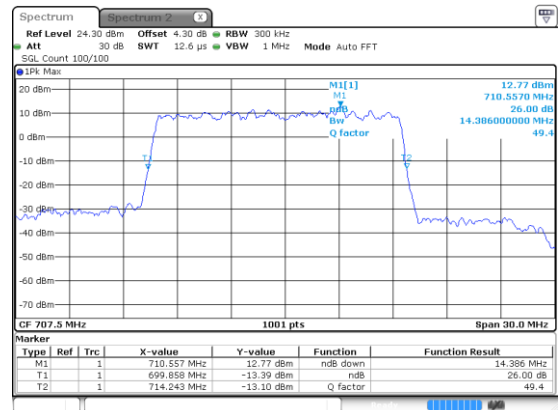
Date: 26 MAY 2020 23:28:42

Middle Channel / BPSK



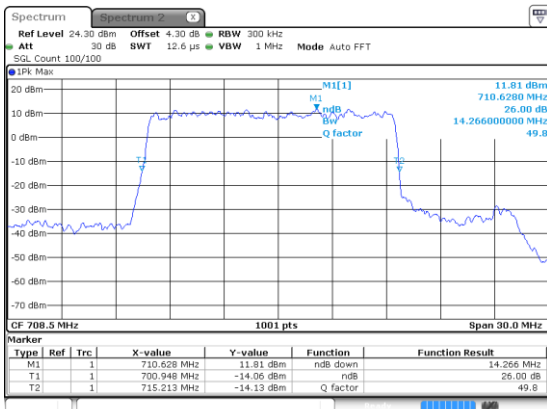
Date: 26 MAY 2020 23:22:20

Middle Channel / QPSK



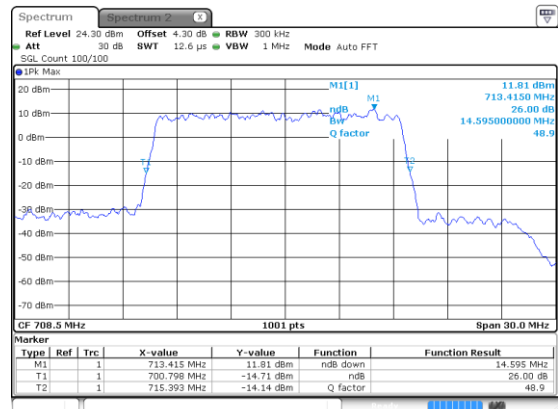
Date: 26 MAY 2020 23:28:42

Highest Channel / BPSK



Date: 26 MAY 2020 23:22:20

Highest Channel / QPSK



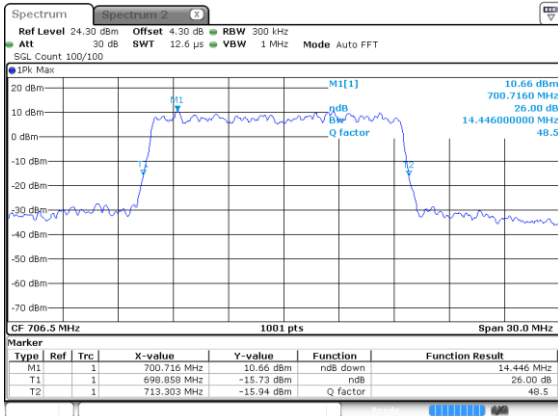
Date: 26 MAY 2020 23:28:42



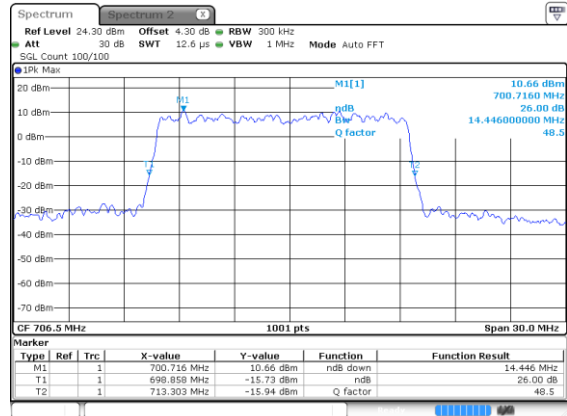
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 15MHz

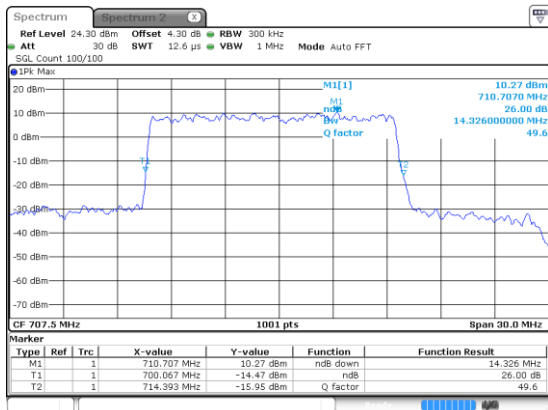
Lowest Channel / 16QAM



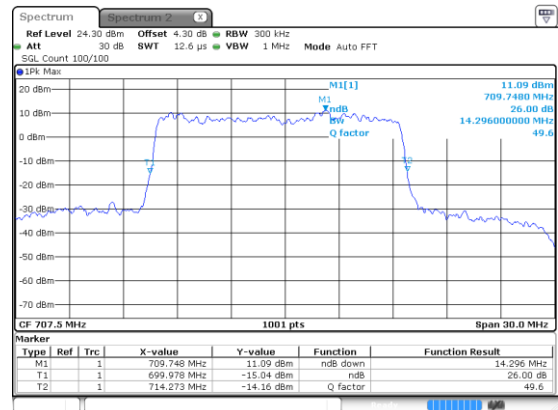
Lowest Channel / 64QAM



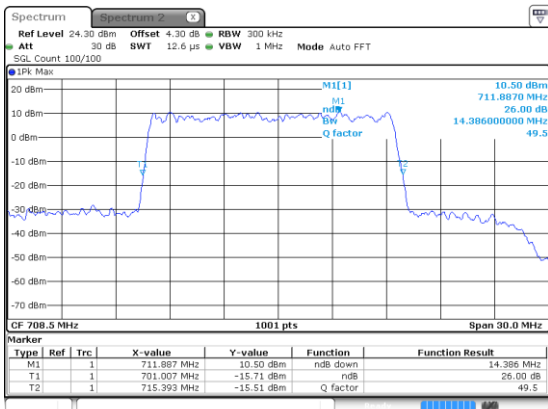
Middle Channel / 16QAM



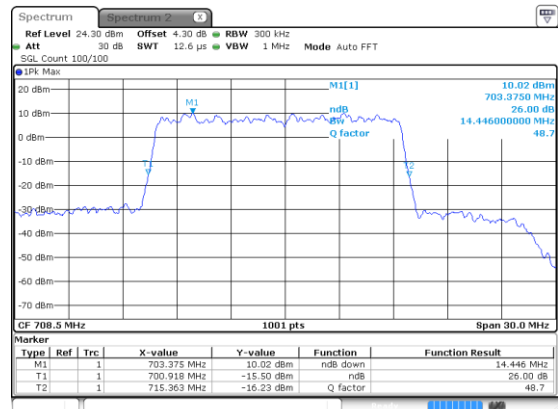
Middle Channel / 64QAM



Highest Channel / 16QAM



Highest Channel / 64QAM

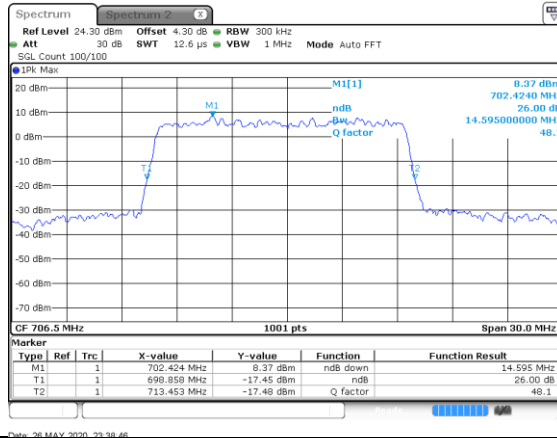




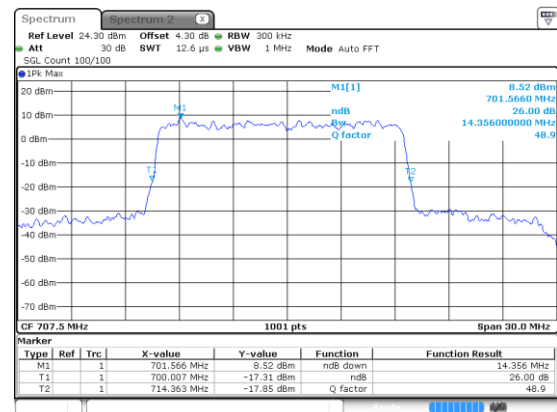
EN-DC\_2A\_n12A

Combination LTE 10MHz + NR 15MHz

Lowest Channel / 256QAM



Middle Channel / 256QAM



Highest Channel / 256QAM

