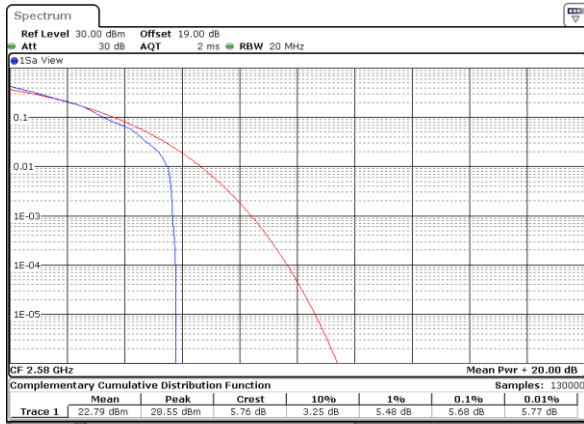


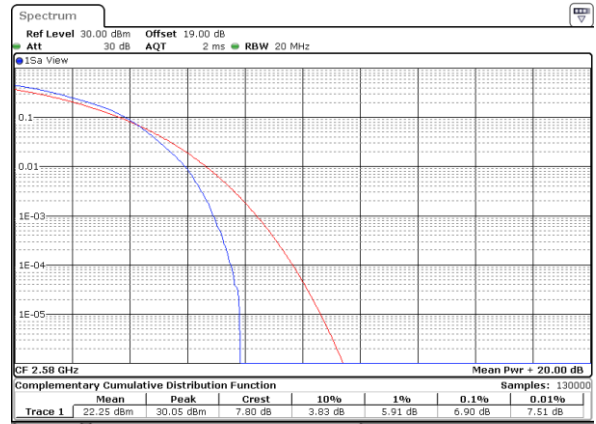


LTE Band 38 / 20MHz / 64QAM

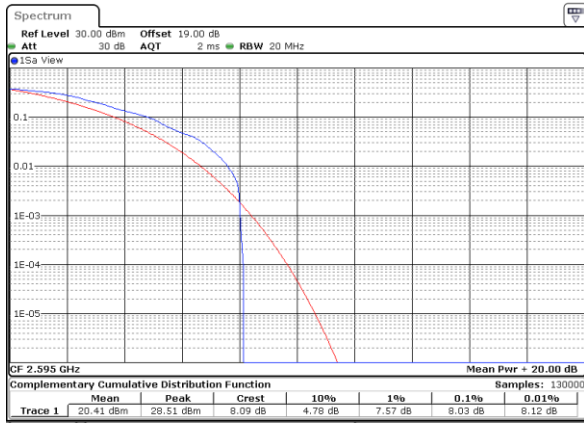
Lowest Channel / 1RB



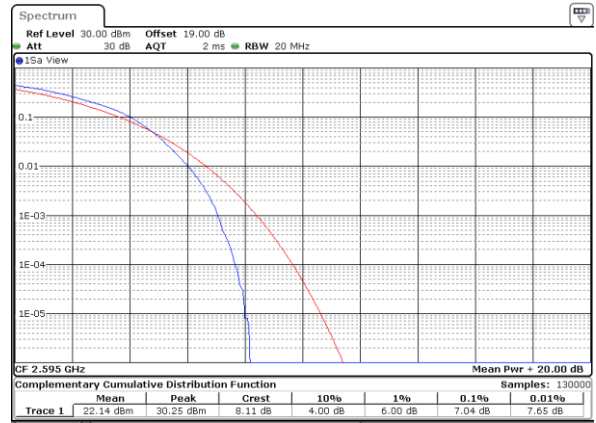
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



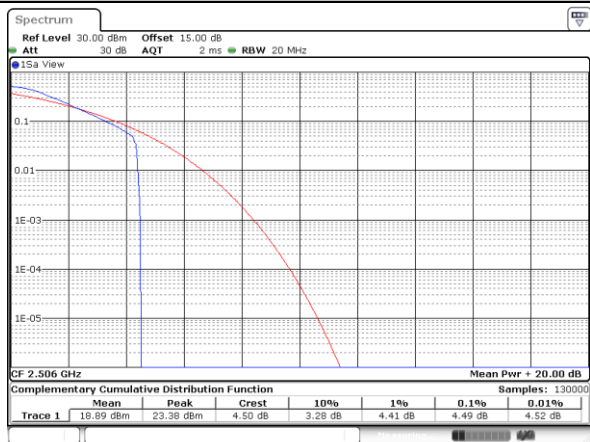
Highest Channel / Full RB



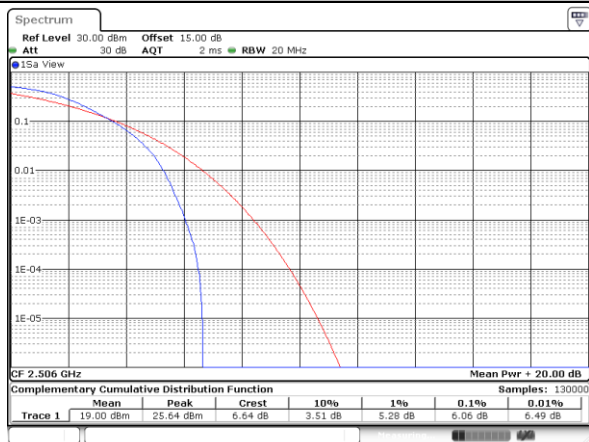


LTE Band 41 / 20MHz / QPSK

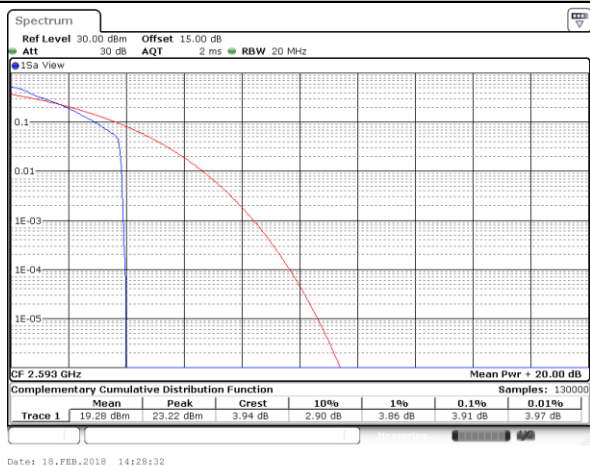
Lowest Channel / 1RB



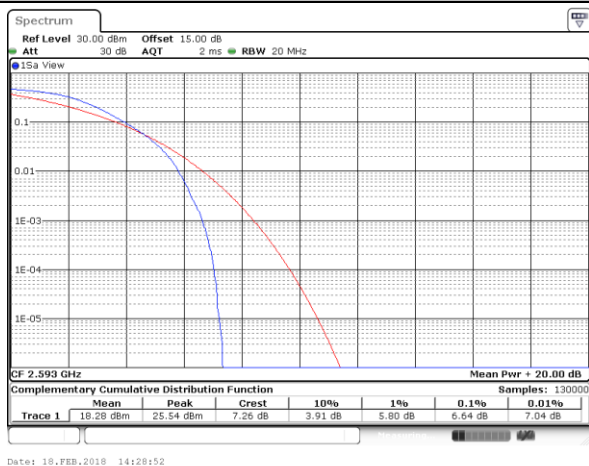
Lowest Channel / Full RB



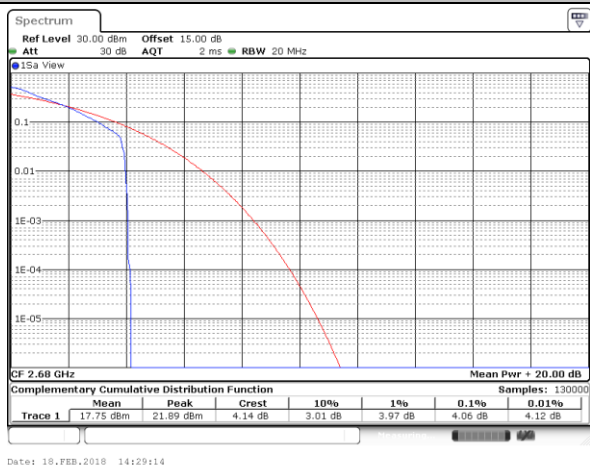
Middle Channel / 1RB



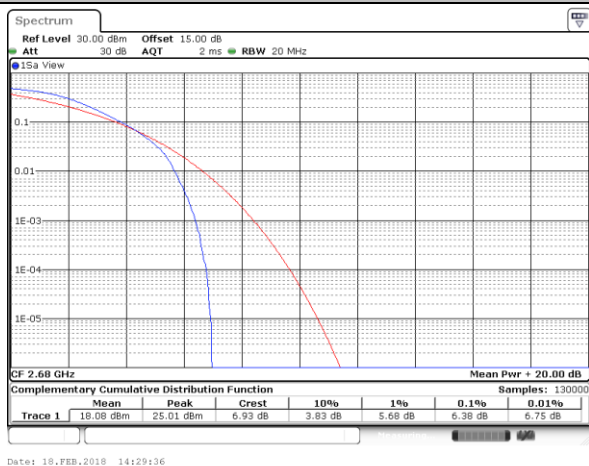
Middle Channel / Full RB



Highest Channel / 1RB



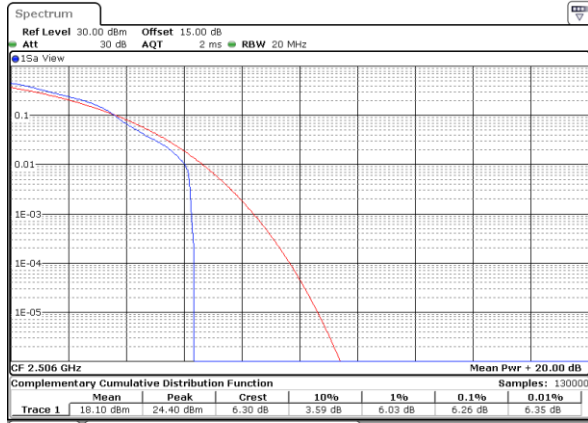
Highest Channel / Full RB



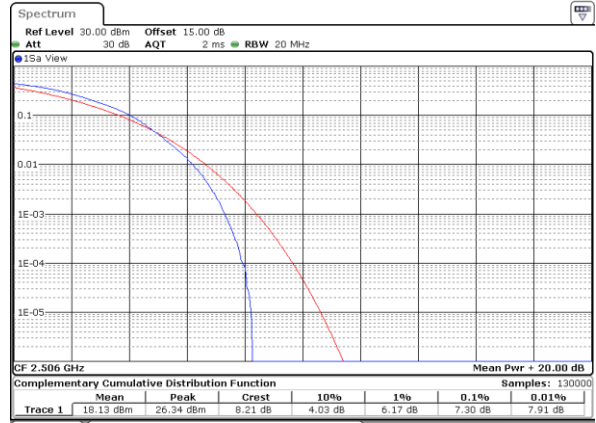


LTE Band 41 / 20MHz / 16QAM

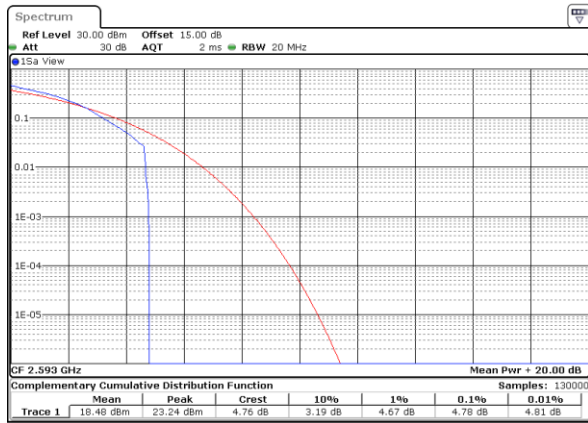
Lowest Channel / 1RB



Lowest Channel / Full RB



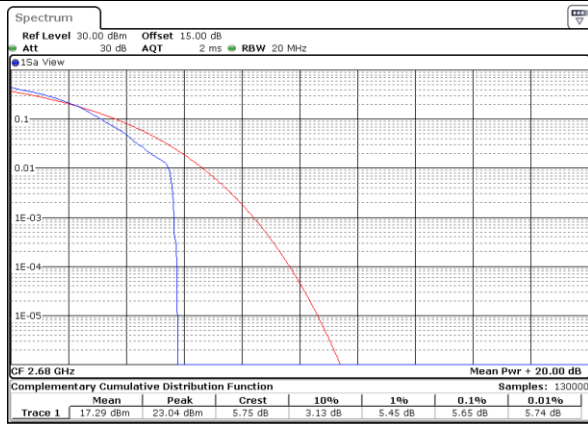
Middle Channel / 1RB



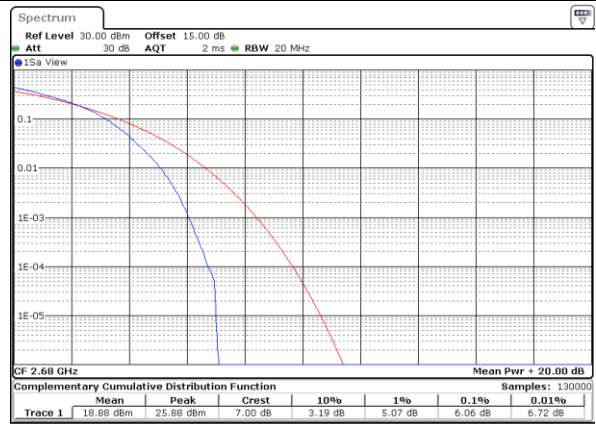
Middle Channel / Full RB



Highest Channel / 1RB



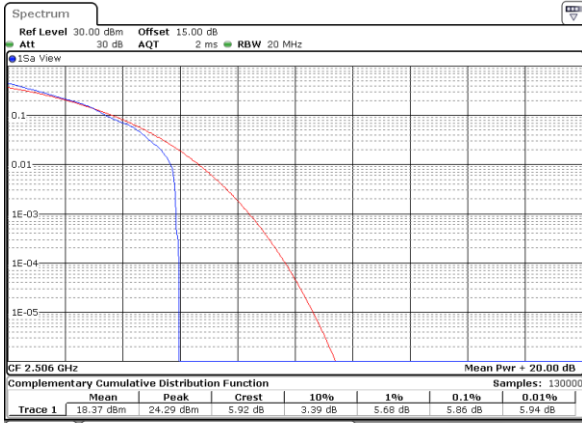
Highest Channel / Full RB



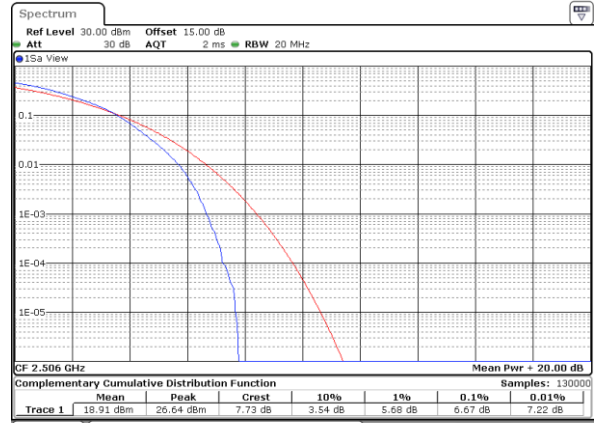


LTE Band 41 / 20MHz / 64QAM

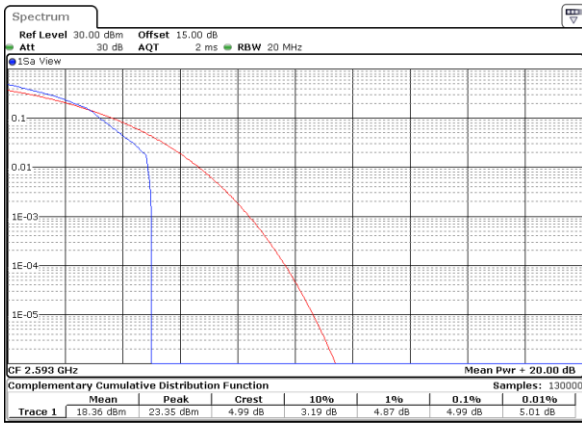
Lowest Channel / 1RB



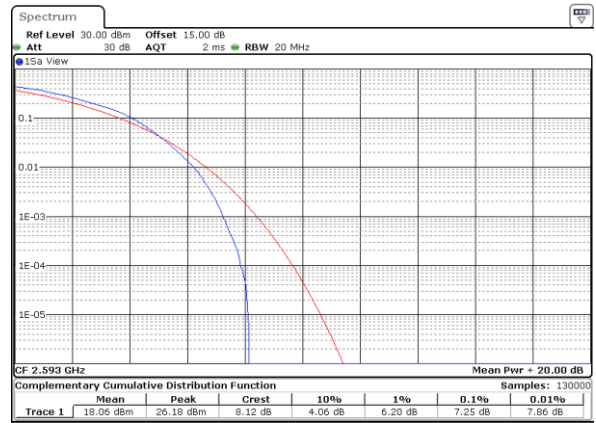
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



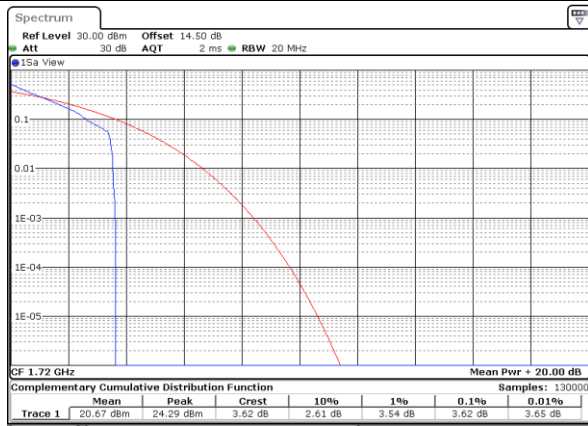
Highest Channel / Full RB



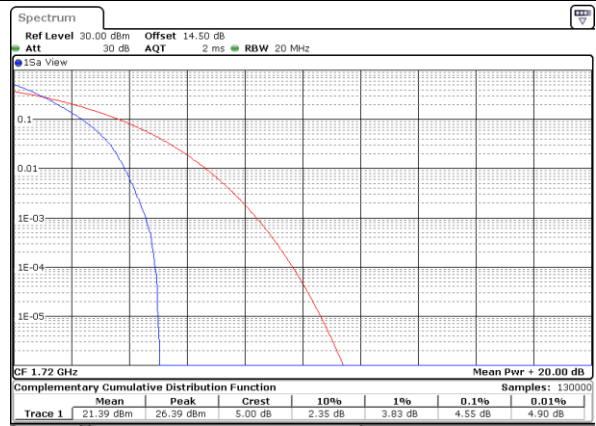


LTE Band 66 / 20MHz / QPSK

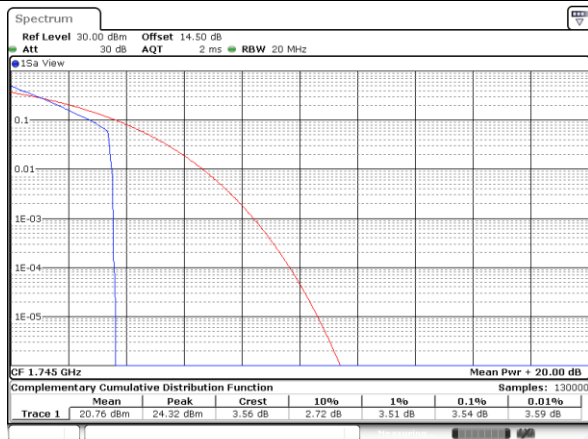
Lowest Channel / 1RB



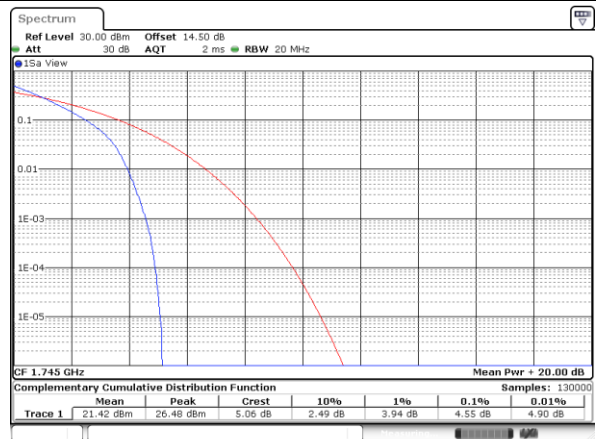
Lowest Channel / Full RB



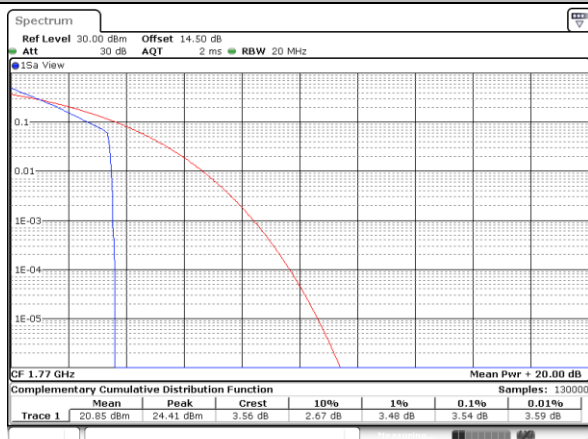
Middle Channel / 1RB



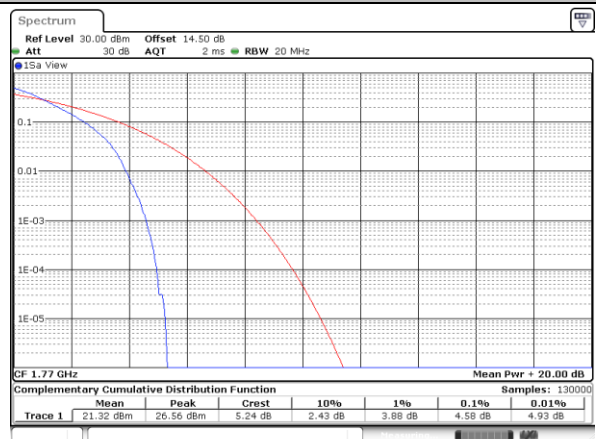
Middle Channel / Full RB



Highest Channel / 1RB



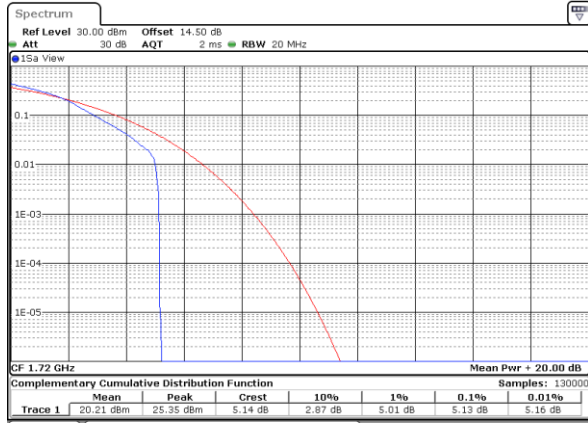
Highest Channel / Full RB



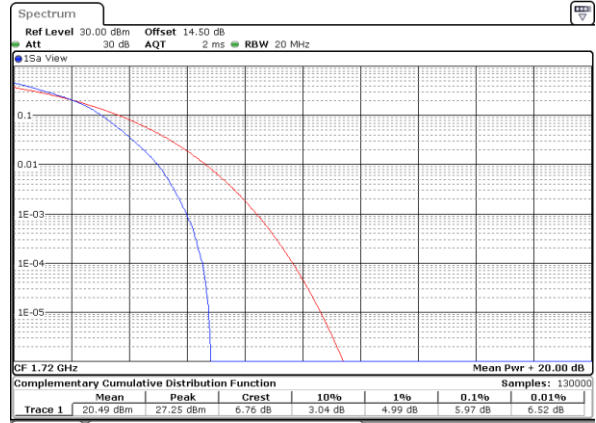


LTE Band 66 / 20MHz / 16QAM

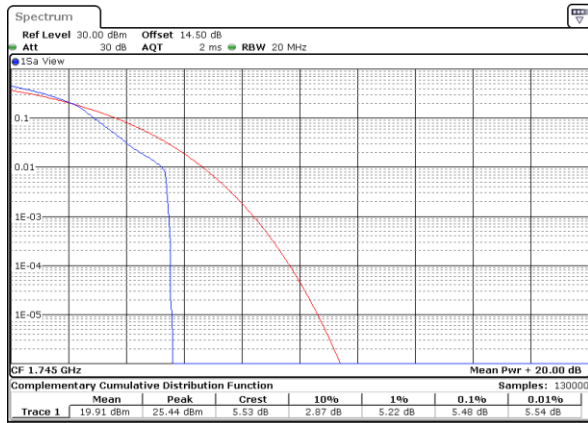
Lowest Channel / 1RB



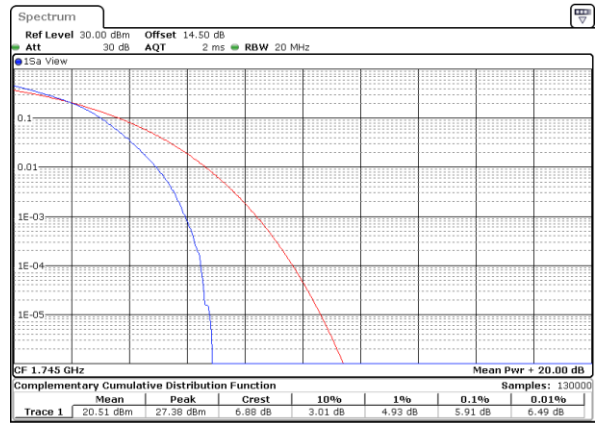
Lowest Channel / Full RB



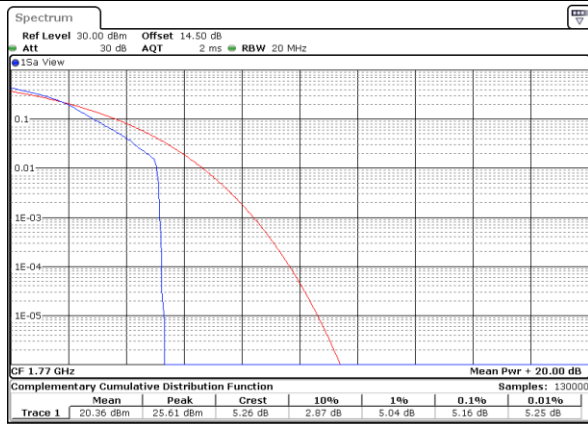
Middle Channel / 1RB



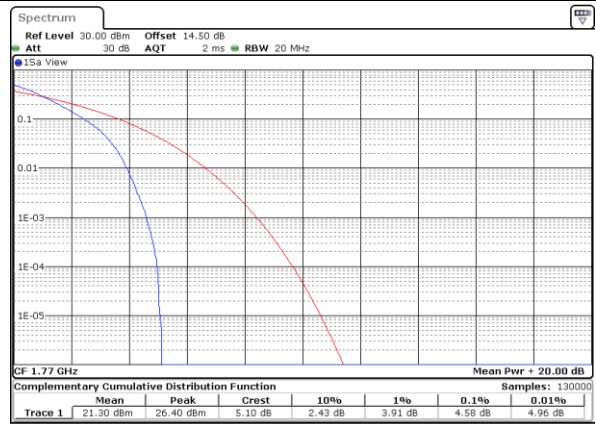
Middle Channel / Full RB



Highest Channel / 1RB



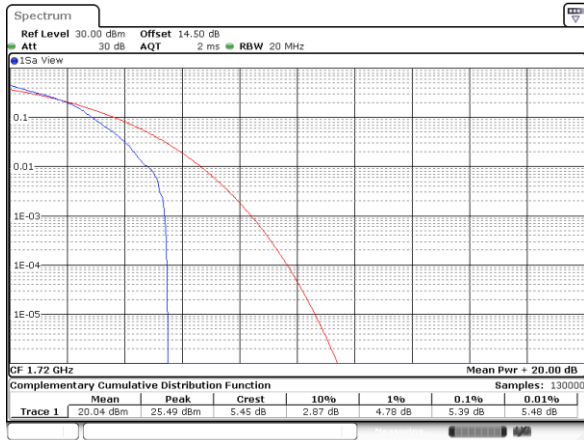
Highest Channel / Full RB



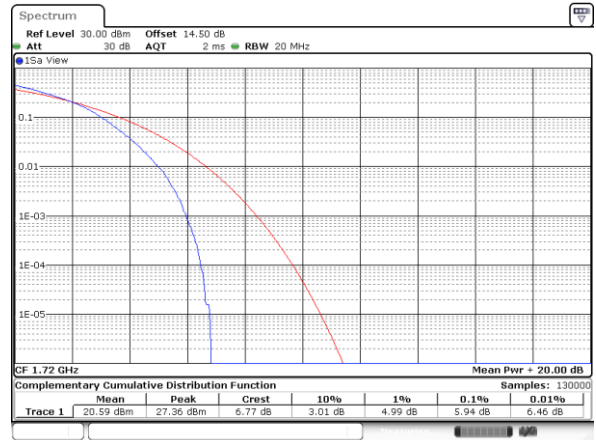


LTE Band 66 / 20MHz / 64QAM

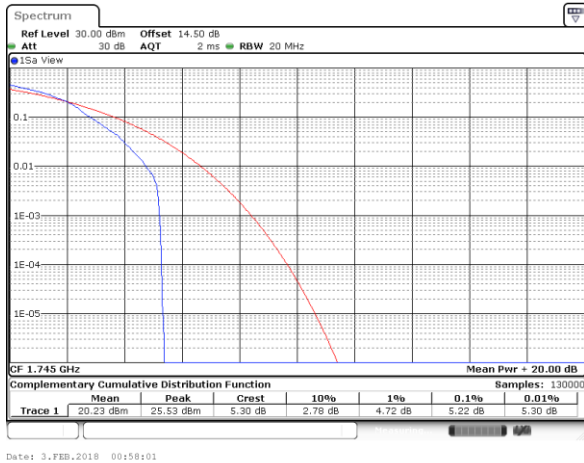
Lowest Channel / 1RB



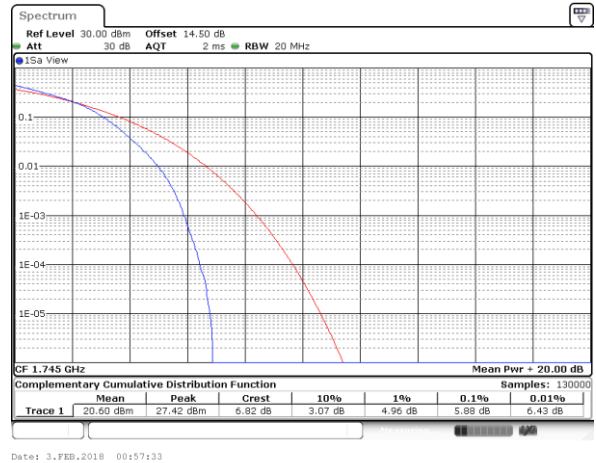
Lowest Channel / Full RB



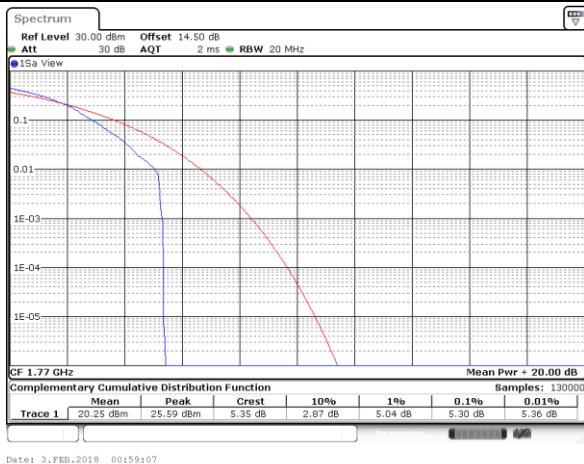
Middle Channel / 1RB



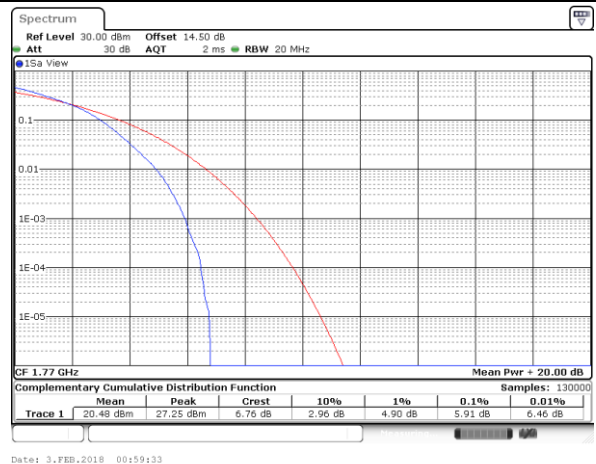
Middle Channel / Full RB



Highest Channel / 1RB



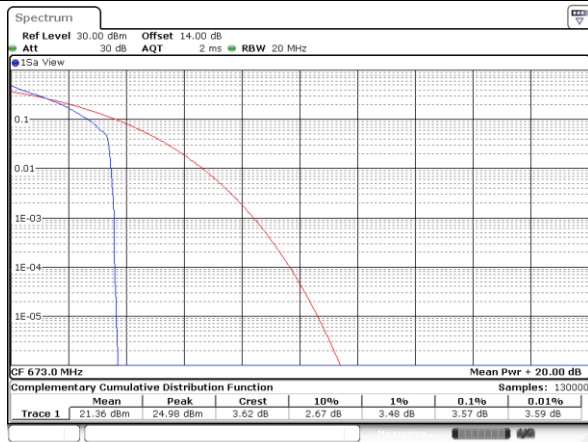
Highest Channel / Full RB



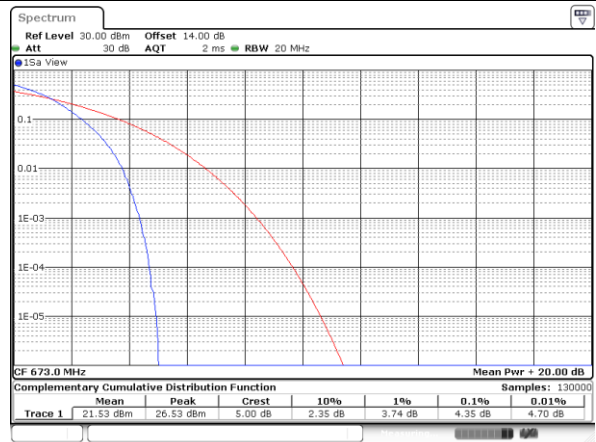


LTE Band 71 / 20MHz / QPSK

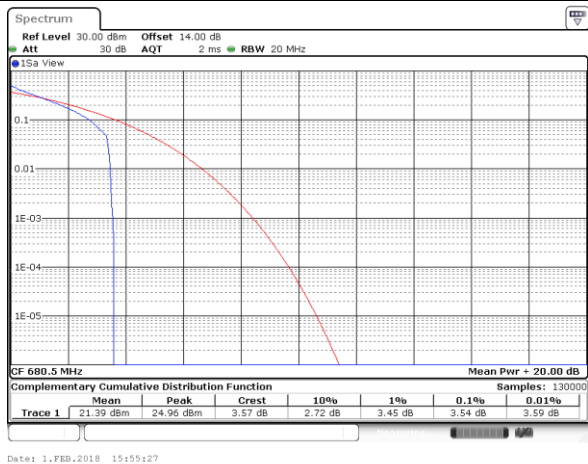
Lowest Channel / 1RB



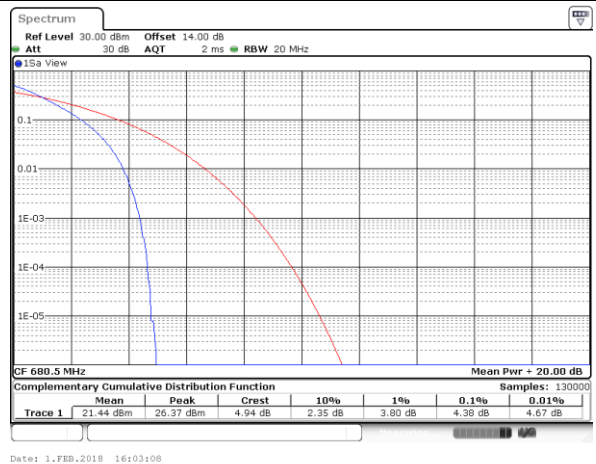
Lowest Channel / Full RB



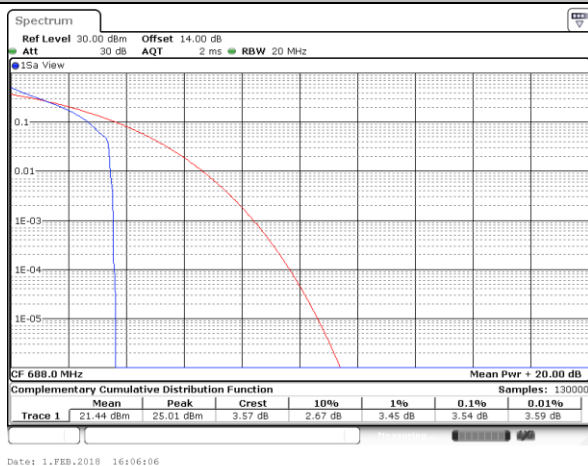
Middle Channel / 1RB



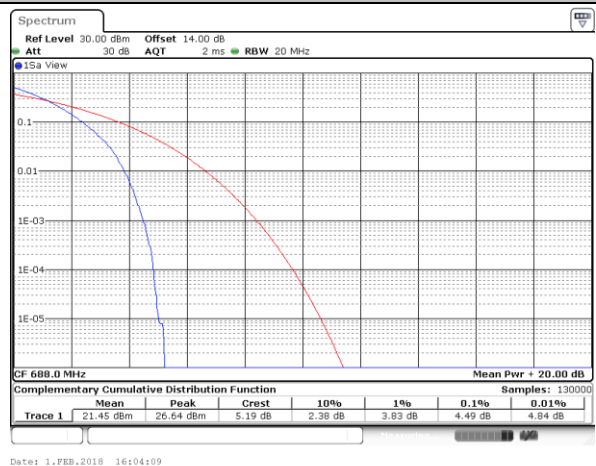
Middle Channel / Full RB



Highest Channel / 1RB



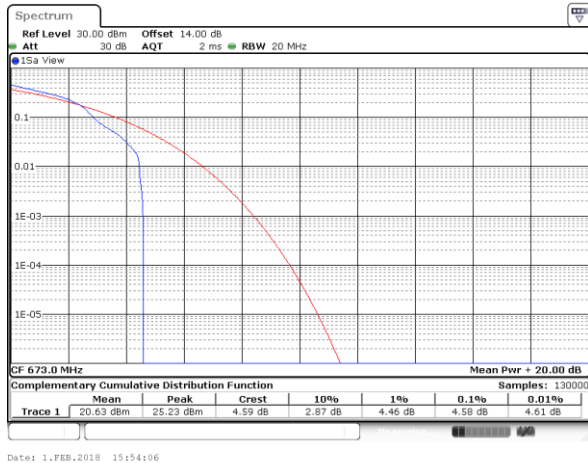
Highest Channel / Full RB



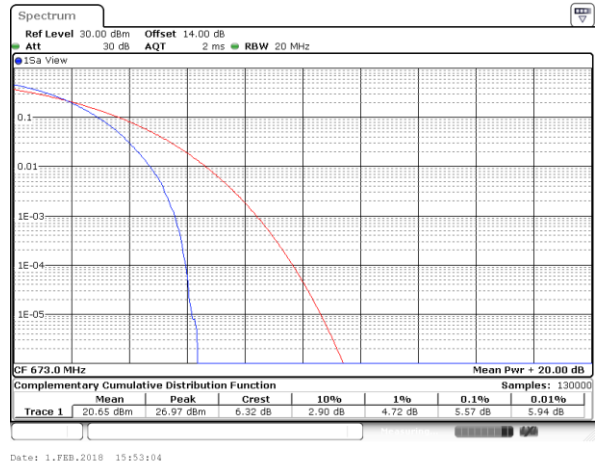


LTE Band 71 / 20MHz / 16QAM

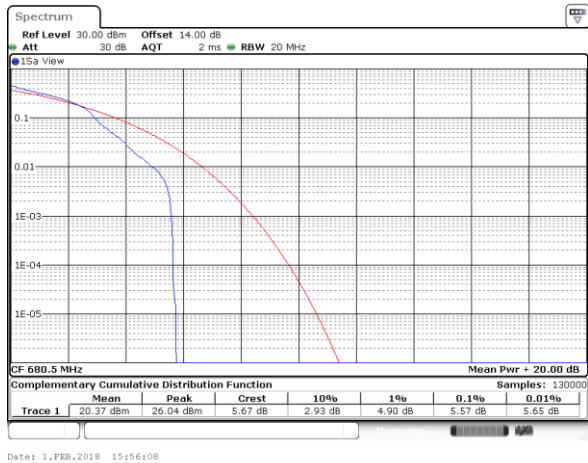
Lowest Channel / 1RB



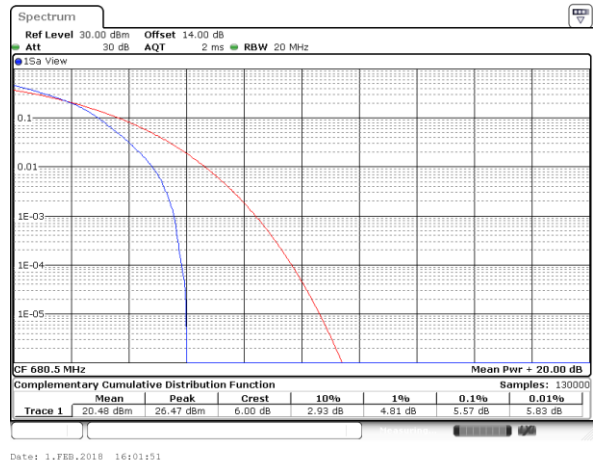
Lowest Channel / Full RB



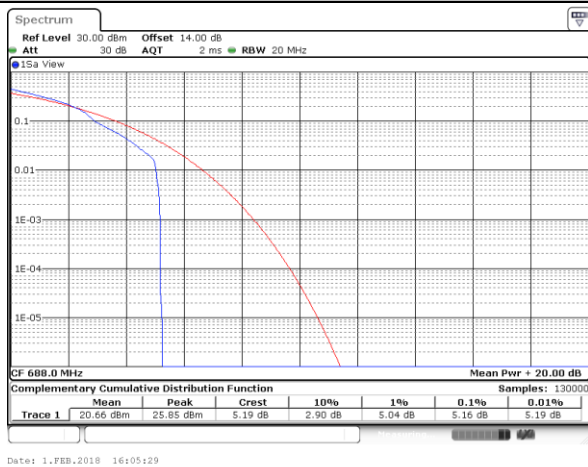
Middle Channel / 1RB



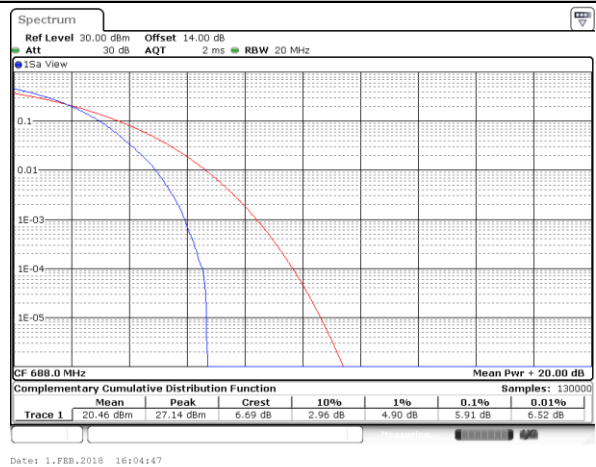
Middle Channel / Full RB



Highest Channel / 1RB



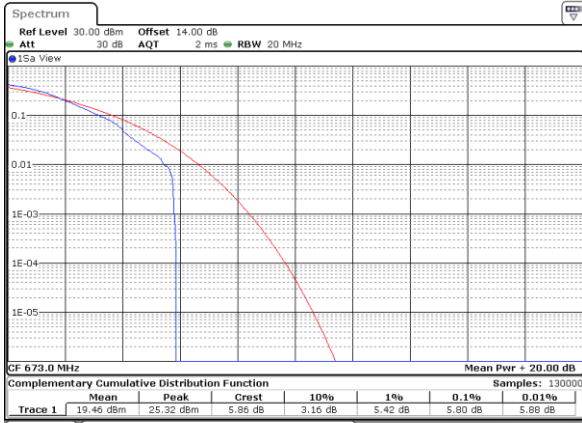
Highest Channel / Full RB



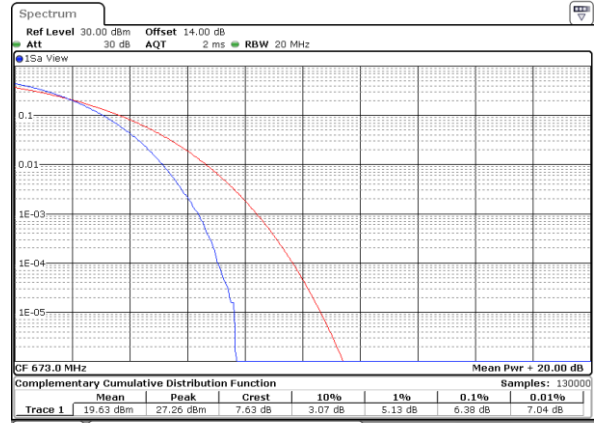


LTE Band 71 / 20MHz / 64QAM

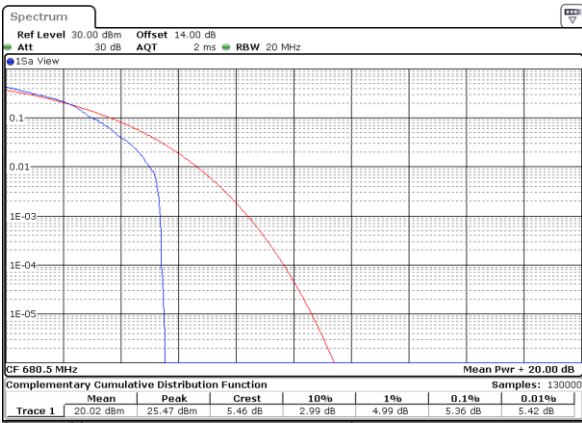
Lowest Channel / 1RB



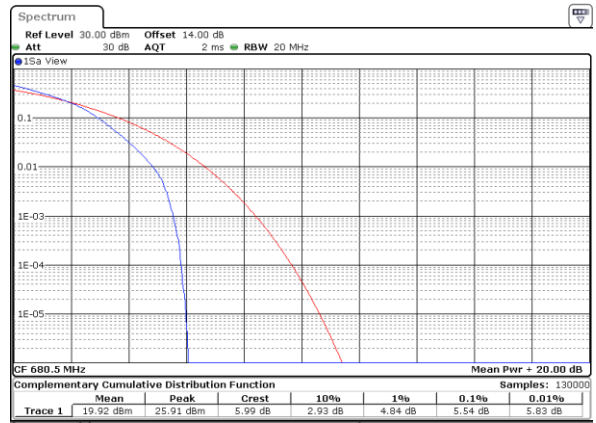
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.225	1.231	3.033	2.997	4.965	4.805	9.81	9.81	14.296	14.416	20.1	20.06
Middle CH	1.22	1.231	2.985	3.021	4.935	4.945	9.87	9.61	14.565	14.326	20.1	20.02
Highest CH	1.234	1.231	3.003	3.033	4.875	4.915	9.77	9.77	14.326	14.326	20.14	20.1
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.22	3.033	4.905	9.73	14.476	20.3						
Middle CH	1.228	3.027	4.875	9.89	14.146	20.1						
Highest CH	1.222	2.997	4.935	9.81	14.236	20.26						

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.228	1.222	2.961	3.003	4.895	4.875	10.03	9.77	14.416	14.266	20.22	20.26
Middle CH	1.225	1.228	2.973	3.045	4.945	4.875	9.75	9.83	14.266	14.296	20.3	20.22
Highest CH	1.239	1.231	3.039	3.045	4.875	4.845	9.91	9.85	14.326	14.356	20.18	20.14
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.242	2.955	4.835	9.71	14.386	20.3						
Middle CH	1.214	3.015	4.875	9.73	14.416	20.539						
Highest CH	1.225	3.057	4.805	9.65	14.565	20.22						

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.231	1.228	2.961	3.027	4.865	4.865	9.91	9.79	-	-	-	-
Middle CH	1.222	1.22	3.033	2.985	4.935	4.875	9.71	9.83	-	-	-	-
Highest CH	1.222	1.236	3.057	3.009	4.815	4.875	9.69	9.77	-	-	-	-
BW	1.4MHz	3MHz	5MHz	10MHz								
Mod.	64QAM	64QAM	64QAM	64QAM								
Lowest CH	1.225	2.997	4.875	9.95								
Middle CH	1.231	3.027	4.875	9.79								
Highest CH	1.225	2.955	4.905	9.91								



Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.945	4.905	9.85	9.85	14.146	14.386	20.3	20.14
Middle CH	4.935	4.865	9.69	9.73	14.476	14.386	20.1	20.18
Highest CH	4.875	4.875	9.67	9.75	14.356	14.565	20.02	20.14
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.865		9.75		14.505		20.22	
Middle CH	4.895		9.73		14.236		20.1	
Highest CH	4.915		9.79		14.416		20.18	

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.225	1.222	3.015	3.033	4.935	4.905	9.67	9.71	-	-	-	-
Middle CH	1.222	1.231	3.021	3.015	4.945	4.845	9.85	9.79	-	-	-	-
Highest CH	1.236	1.236	3.063	2.985	4.885	4.905	9.79	9.83	-	-	-	-
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.228	3.015	4.815	9.93	-	-						
Middle CH	1.228	3.033	4.925	9.75	-	-						
Highest CH	1.234	2.997	4.935	9.77	-	-						

Mode	LTE Band 17 : 26dB BW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.945	4.915	9.75	9.89	4.895	9.79						
Middle CH	4.845	4.875	9.79	9.79	4.915	9.89						
Highest CH	4.835	4.875	9.81	9.89	4.915	9.67						



Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.228	1.217	3.051	3.009	4.905	4.885	9.77	9.65	14.146	14.236	20.3	20.02
Middle CH	1.225	1.222	3.009	2.997	4.905	4.855	9.69	9.81	14.326	14.176	20.1	20.18
Highest CH	1.222	1.211	3.021	3.015	4.815	4.905	9.77	9.91	14.446	14.476	20.14	20.14
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.228	3.027	4.805	9.81	14.326	20.18						
Middle CH	1.231	3.021	4.915	9.85	14.206	20.18						
Highest CH	1.228	2.997	4.865	9.83	14.236	20.14						

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.231	1.225	3.039	3.051	4.965	4.835	9.69	9.81	14.146	14.386	14.446	14.505
Middle CH	1.234	1.206	2.997	3.045	4.785	4.885	9.81	9.63	14.116	14.356	-	-
Highest CH	1.245	1.239	3.051	3.057	4.915	4.935	9.73	9.87	14.416	14.476	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.231		3.015		4.935		9.85		14.505		14.446	
Middle CH	1.225		3.033		4.825		9.93		14.266		-	
Highest CH	1.248		3.003		4.865		9.73		14.446		-	

Mode	LTE Band 38 : 26dB BW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.915	4.805	9.79	9.79	14.266	14.386	20.1	19.94	4.905	9.67	14.356	20.1
Middle CH	4.835	4.895	9.67	9.65	14.206	14.266	20.1	20.06	4.775	9.67	14.326	20.18
Highest CH	4.865	4.815	9.79	9.73	14.236	14.326	20.18	20.06	4.895	9.65	14.146	20.1

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.875	4.815	9.67	9.61	14.356	14.446	20.22	20.22	4.815	9.69	14.356	20.22
Middle CH	4.915	4.795	9.69	9.65	14.266	14.236	20.22	20.06	4.775	9.81	14.356	20.18
Highest CH	4.835	4.805	9.65	9.61	14.146	14.206	20.26	20.1	4.875	9.75	14.535	20.22



Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.225	1.217	3.027	3.027	4.915	4.915	9.91	9.73	14.266	14.416	20.26	20.26
Middle CH	1.248	1.234	3.045	3.003	4.875	4.955	9.91	9.75	14.446	14.386	20.18	20.26
Highest CH	1.239	1.222	3.015	3.045	4.855	4.915	9.87	9.67	14.416	14.446	20.42	20.18
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.222	2.997	4.905	9.93	14.565	20.26						
Middle CH	1.239	2.991	4.925	9.75	14.266	20.18						
Highest CH	1.231	3.039	4.955	9.71	14.356	20.18						

Mode	LTE Band 71 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.905	4.835	9.81	9.77	14.595	14.505	20.14	20.14
Middle CH	-	-	-	-	4.875	4.905	9.89	9.75	14.625	14.146	20.22	20.46
Highest CH	-	-	-	-	4.895	4.925	9.93	9.83	14.356	14.446	20.34	20.1
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	-	-	4.855	9.81	14.356	20.22						
Middle CH	-	-	4.885	9.75	14.476	20.30						
Highest CH	-	-	4.885	9.83	14.386	20.42						



For CA

Mode	LTE Band 7 : 26dB BW(MHz)								
BW	10MHz+20MHz			15MHz+15MHz			15MHz+20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	29.97	29.97	30.03	30.689	30.629	30.629	34.965	34.965	34.895
Middle CH	29.91	29.91	29.91	30.689	30.569	30.629	34.965	34.895	34.895
Highest CH	30.03	29.91	29.91	30.689	30.569	30.569	34.965	34.895	34.965

Mode	LTE Band 7 : 26dB BW(MHz)								
BW	20MHz+10MHz			20MHz+15MHz			20MHz+20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	30.09	30.03	30.15	34.895	34.895	35.105	39.88	39.80	39.96
Middle CH	30.21	30.21	30.03	34.965	34.965	34.965	40.04	39.80	39.80
Highest CH	30.15	30.09	30.03	35.035	34.895	34.965	39.88	39.88	39.88

Mode	LTE Band 7 : 26dB BW(MHz)		
BW	15MHz+10MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	25.425	25.325	25.425
Middle CH	25.475	25.275	25.425
Highest CH	25.475	25.425	25.375

Mode	LTE Band 41 : 26dB BW(MHz)								
BW	5MHz+20MHz			10MHz+20MHz			15MHz+15MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	24.925	24.875	24.825	30.03	29.91	29.85	30.629	30.689	30.689
Middle CH	24.925	24.825	24.875	29.97	29.79	29.73	30.689	30.569	30.629
Highest CH	24.925	24.825	24.725	29.91	29.67	29.97	30.749	30.509	30.509

Mode	LTE Band 41 : 26dB BW(MHz)								
BW	15MHz+20MHz			20MHz+5MHz			20MHz+10MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	34.895	34.895	34.825	24.125	25.225	24.975	30.03	30.15	30.03
Middle CH	34.965	34.825	34.965	25.175	25.225	24.925	30.03	30.09	30.09
Highest CH	34.895	34.895	34.825	25.175	25.175	25.025	30.15	29.97	30.09



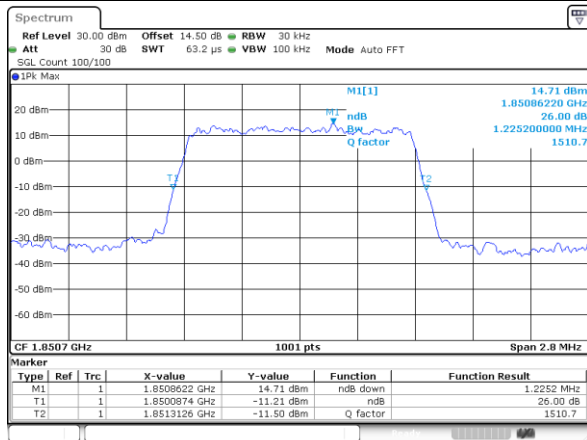
Mode	LTE Band 41 : 26dB BW(MHz)								
BW	20MHz+15MHz			20MHz+20MHz			10MHz+15MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	35.105	34.895	35.105	39.79	39.79	39.79	25.225	25.225	25.275
Middle CH	34.965	35.035	34.895	39.88	39.88	39.88	25.375	25.175	25.225
Highest CH	34.965	35.035	35.035	40.04	39.88	39.88	25.225	25.275	25.175

Mode	LTE Band 41 : 26dB BW(MHz)		
BW	15MHz+10MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	25.475	25.475	25.275
Middle CH	25.425	25.375	25.325
Highest CH	25.375	25.375	25.425

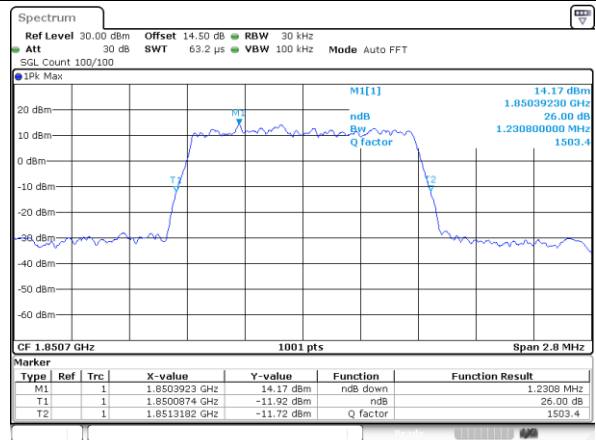


LTE Band 2

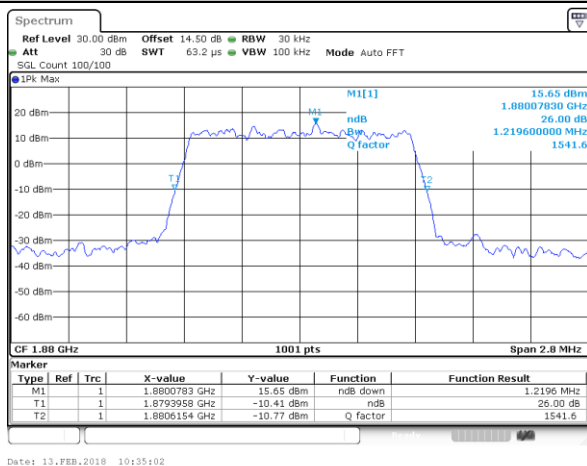
Lowest Channel / 1.4MHz / QPSK



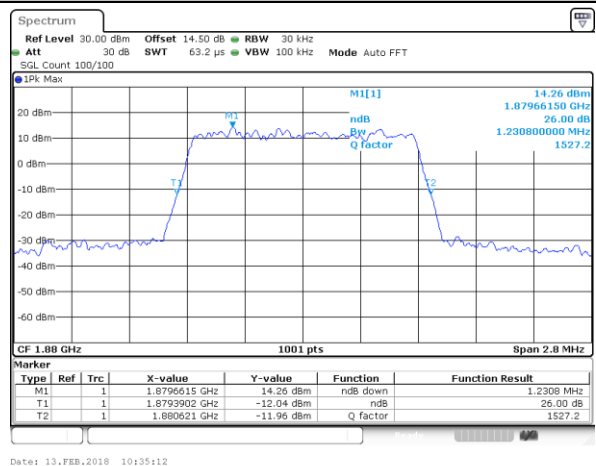
Lowest Channel / 1.4MHz / 16QAM



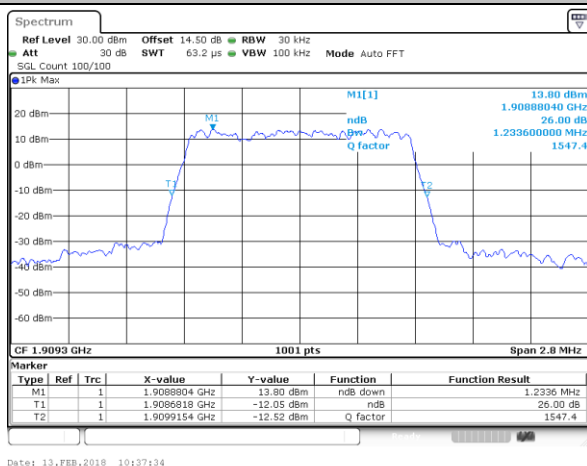
Middle Channel / 1.4MHz / QPSK



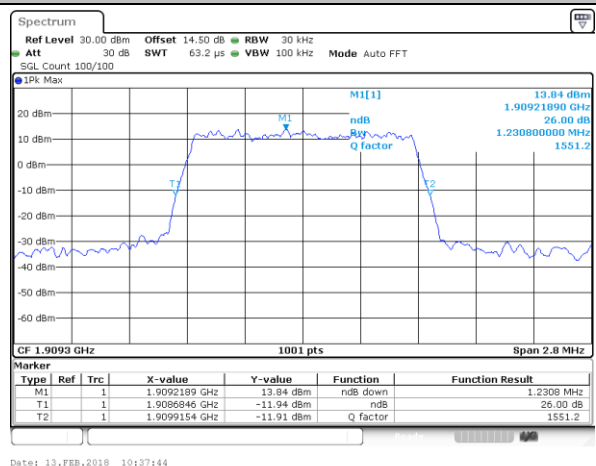
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



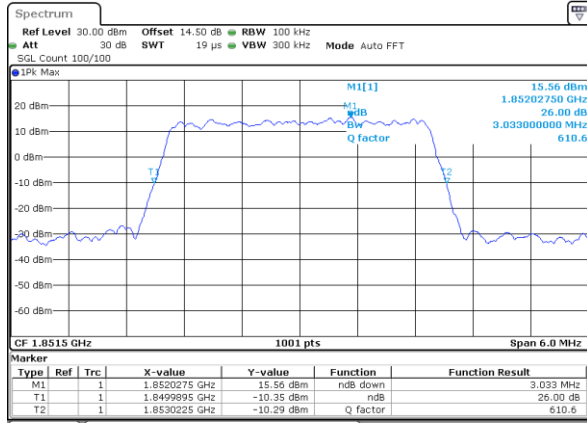
Highest Channel / 1.4MHz / 16QAM





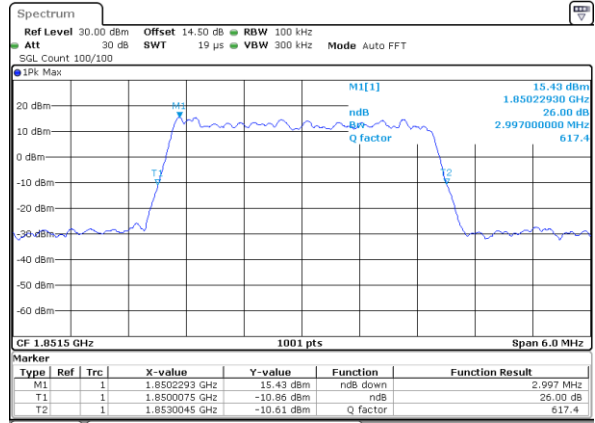
LTE Band 2

Lowest Channel / 3MHz / QPSK



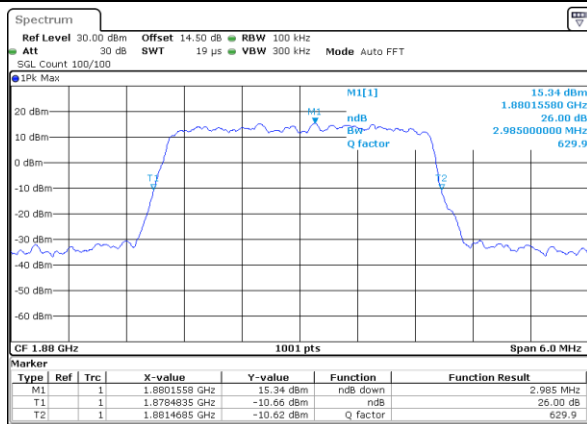
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Lowest Channel / 3MHz / 16QAM



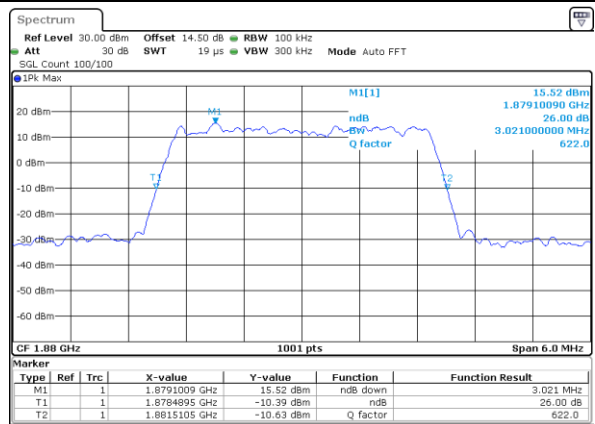
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Middle Channel / 3MHz / QPSK



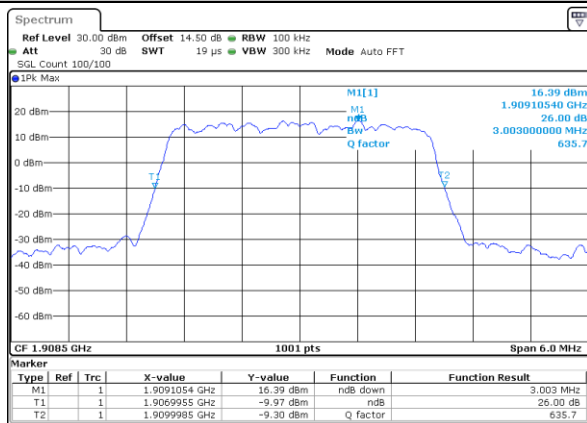
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Middle Channel / 3MHz / 16QAM



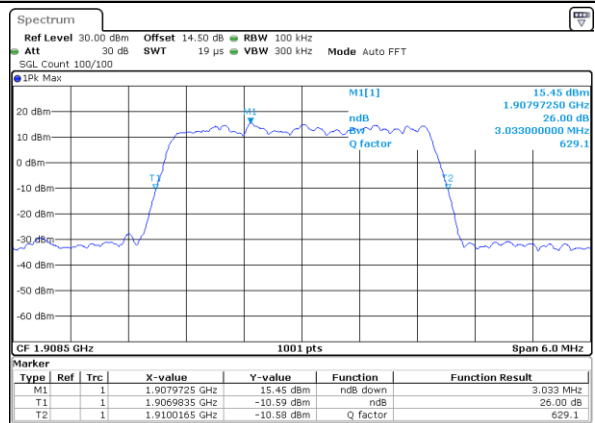
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Highest Channel / 3MHz / QPSK



Date: 13.FEB.2018 10:18:08

Highest Channel / 3MHz / 16QAM

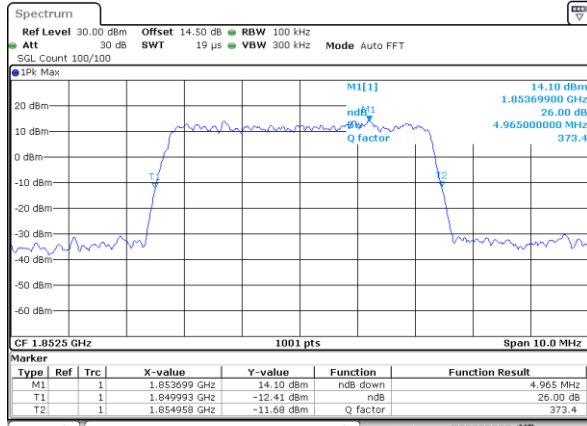


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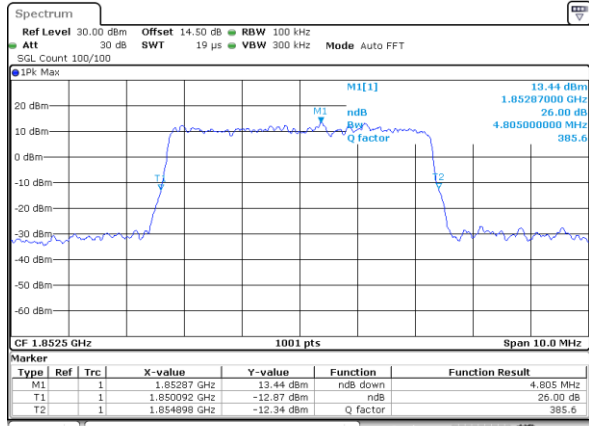
LTE Band 2

Lowest Channel / 5MHz / QPSK



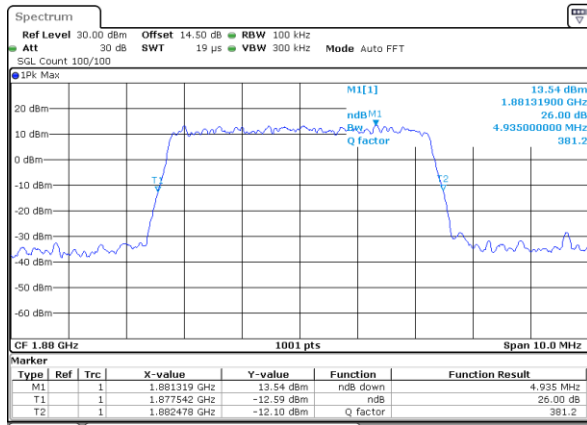
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Lowest Channel / 5MHz / 16QAM



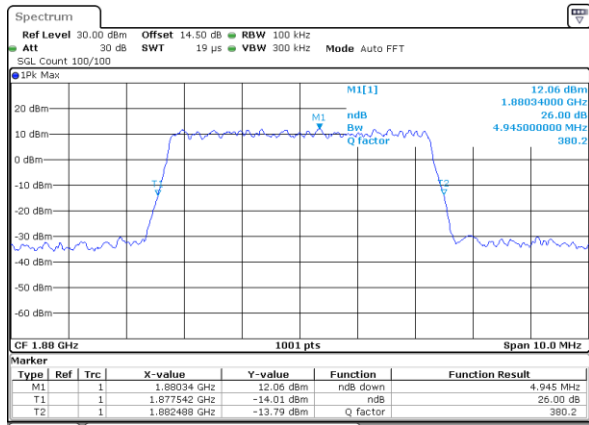
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Middle Channel / 5MHz / QPSK



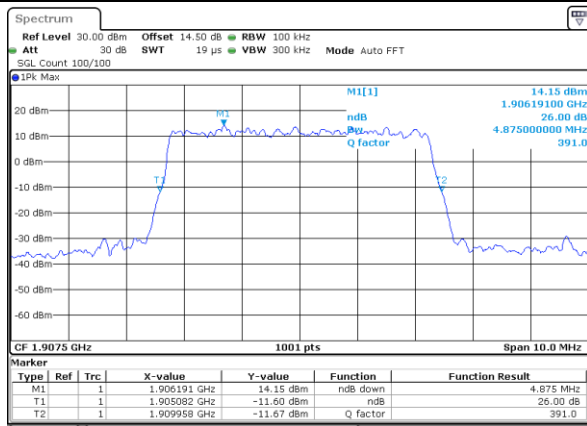
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Middle Channel / 5MHz / 16QAM



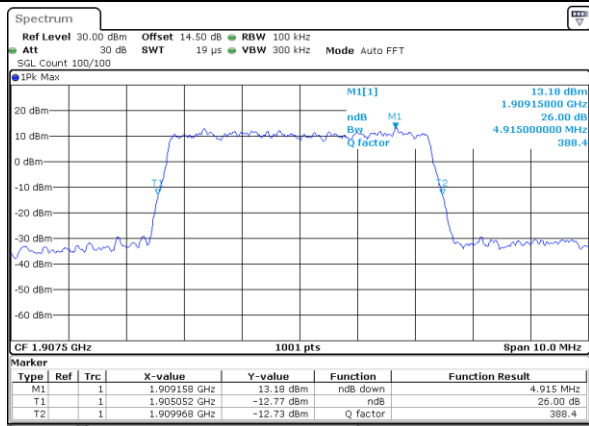
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Highest Channel / 5MHz / QPSK



Date: 13.FEB.2018 11:05:30

Highest Channel / 5MHz / 16QAM

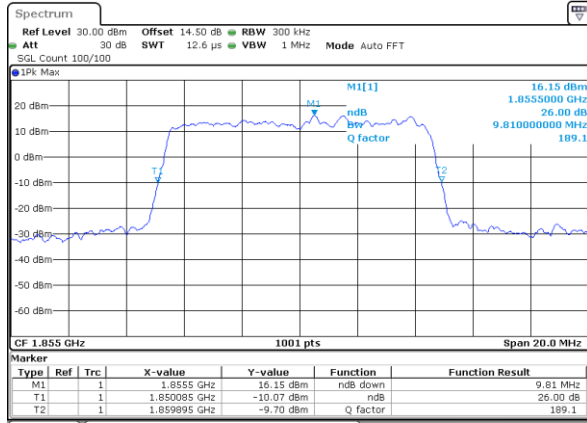


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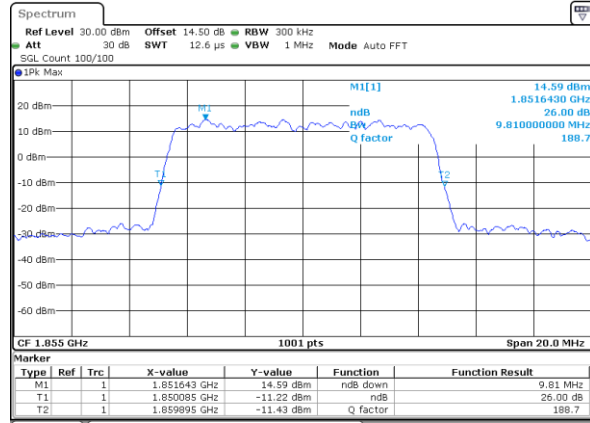
LTE Band 2

Lowest Channel / 10MHz / QPSK



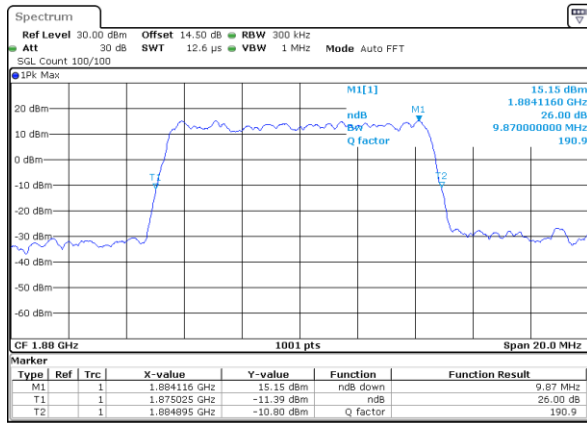
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Lowest Channel / 10MHz / 16QAM



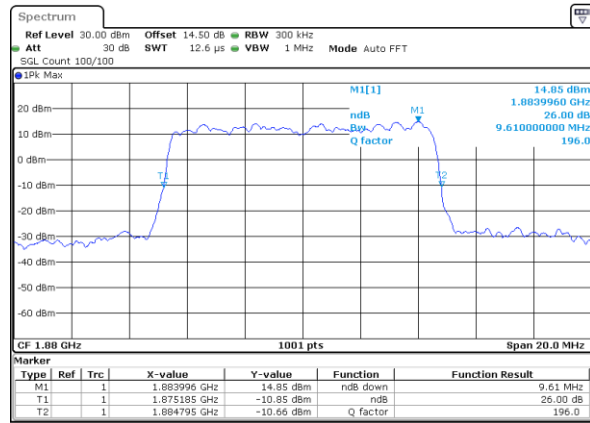
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Middle Channel / 10MHz / QPSK



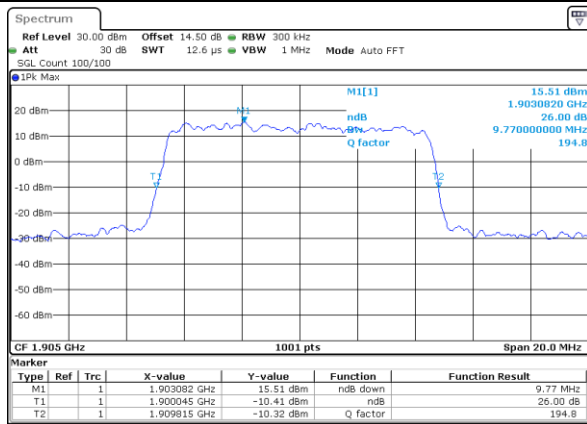
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Middle Channel / 10MHz / 16QAM



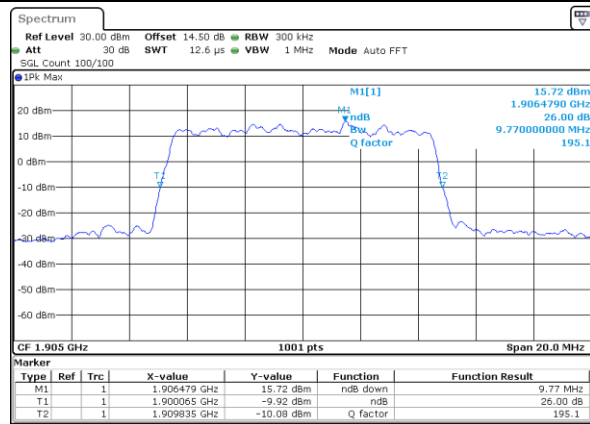
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Highest Channel / 10MHz / QPSK



Date: 13.FEB.2018 11:22:22

Highest Channel / 10MHz / 16QAM

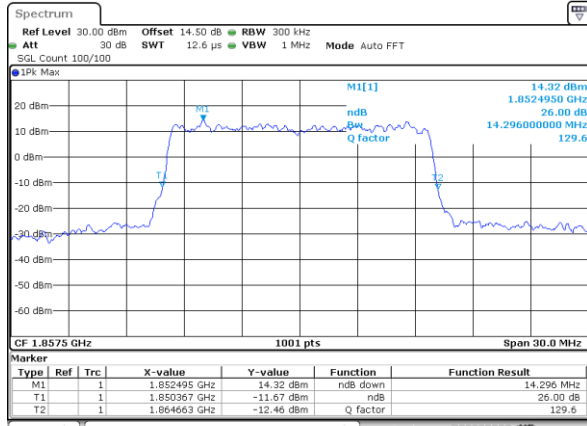


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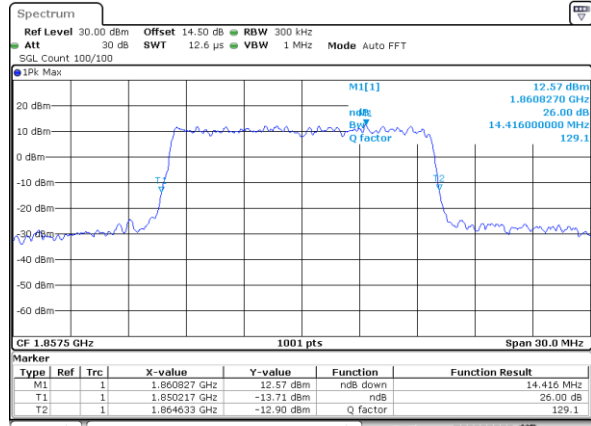
LTE Band 2

Lowest Channel / 15MHz / QPSK



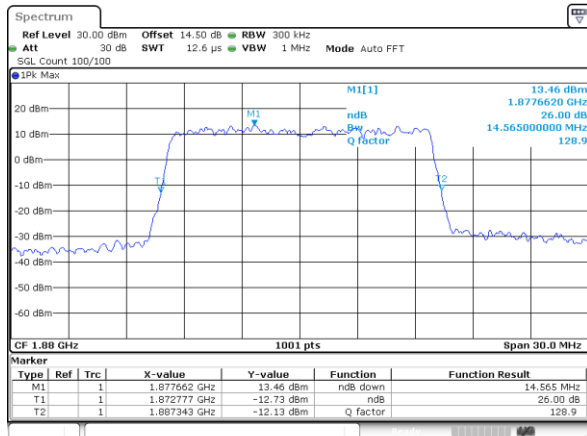
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Lowest Channel / 15MHz / 16QAM



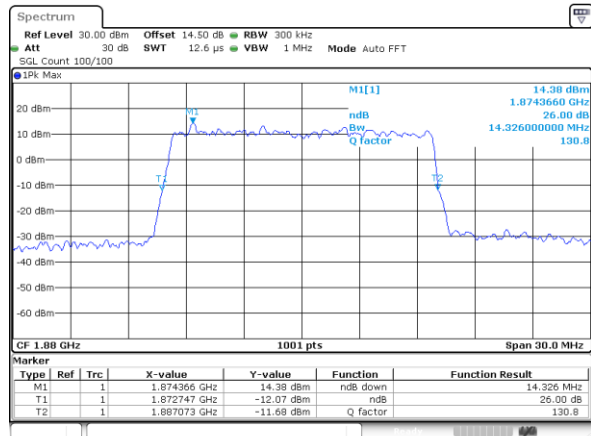
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Middle Channel / 15MHz / QPSK



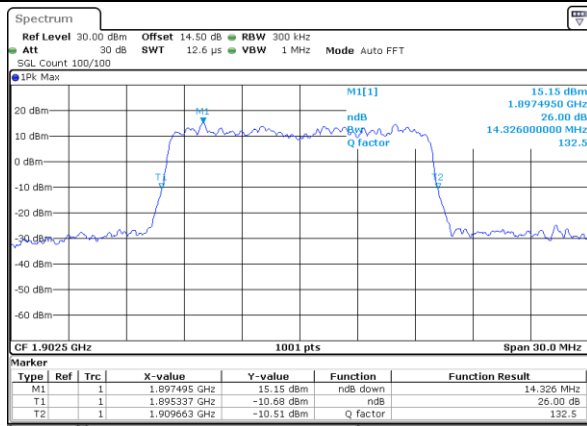
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Middle Channel / 15MHz / 16QAM



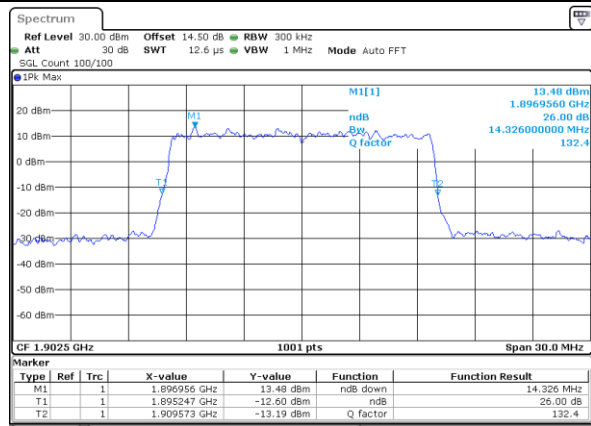
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Highest Channel / 15MHz / QPSK



Date: 13.FEB.2018 11:39:14

Highest Channel / 15MHz / 16QAM

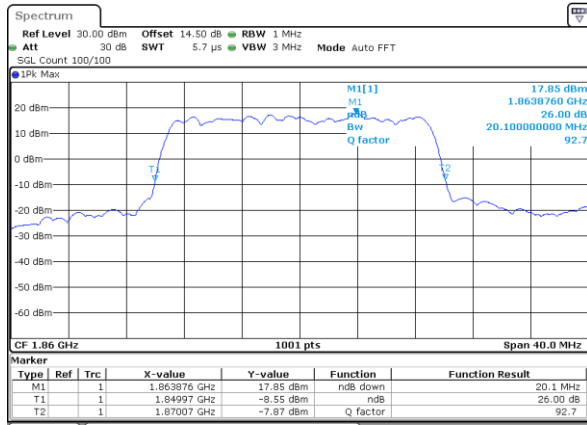


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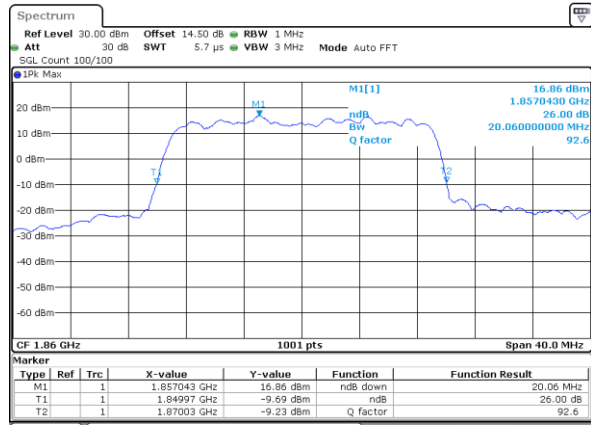


LTE Band 2

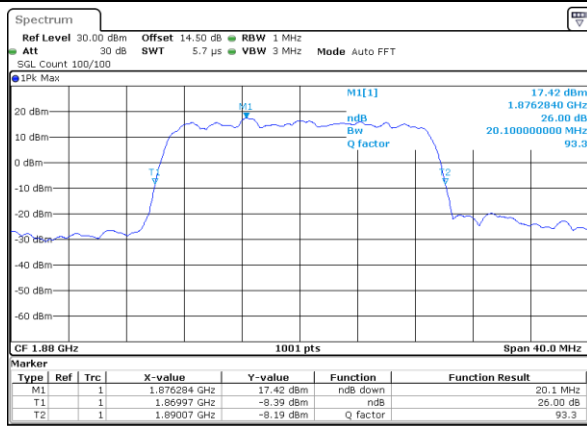
Lowest Channel / 20MHz / QPSK



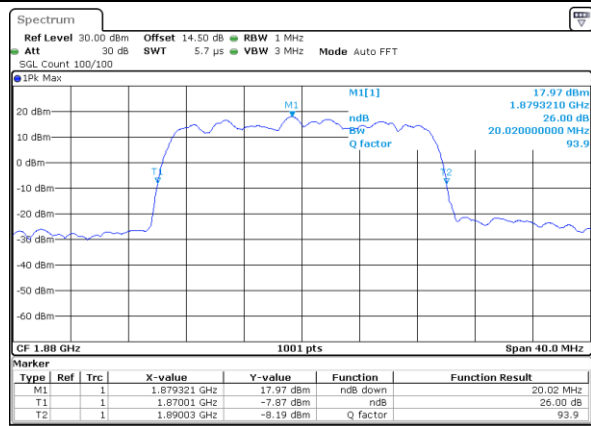
Lowest Channel / 20MHz / 16QAM



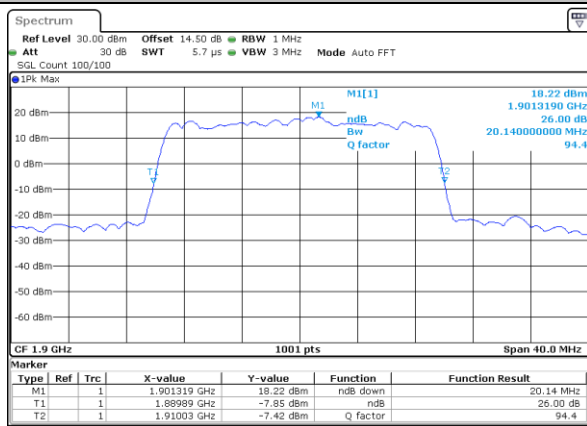
Middle Channel / 20MHz / QPSK



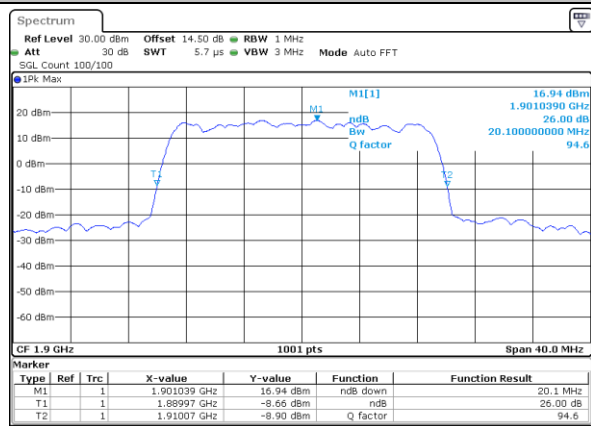
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



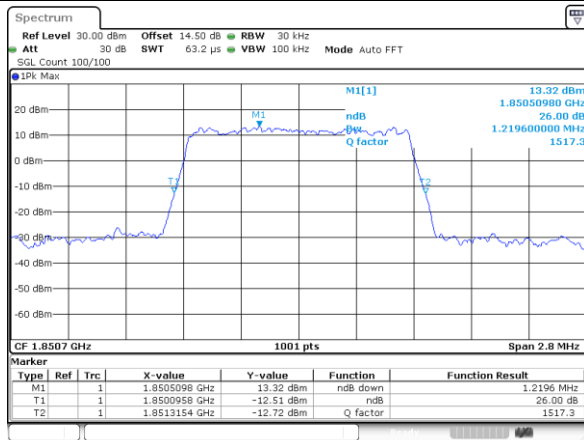
Highest Channel / 20MHz / 16QAM





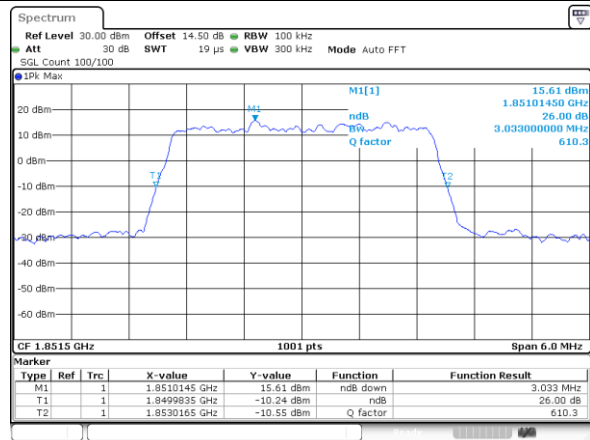
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



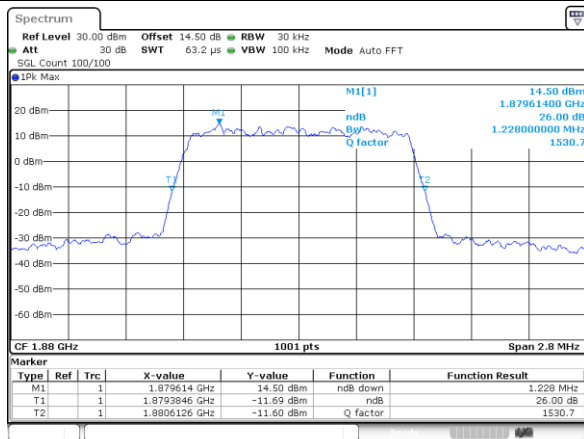
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Lowest Channel / 3MHz / 64QAM



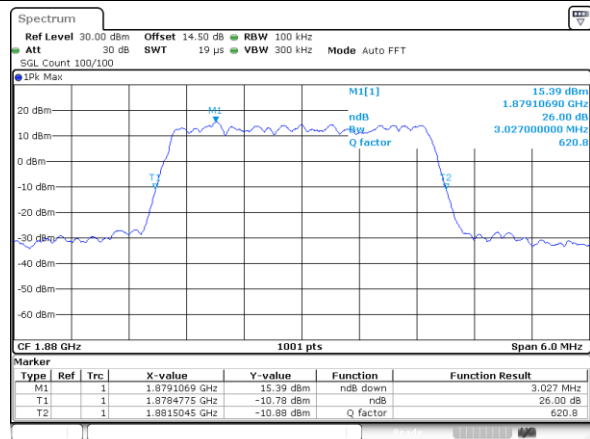
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Middle Channel / 1.4MHz / 64QAM



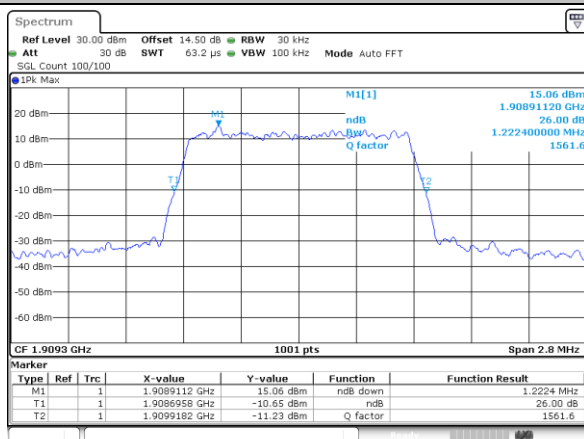
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Middle Channel / 3MHz / 64QAM



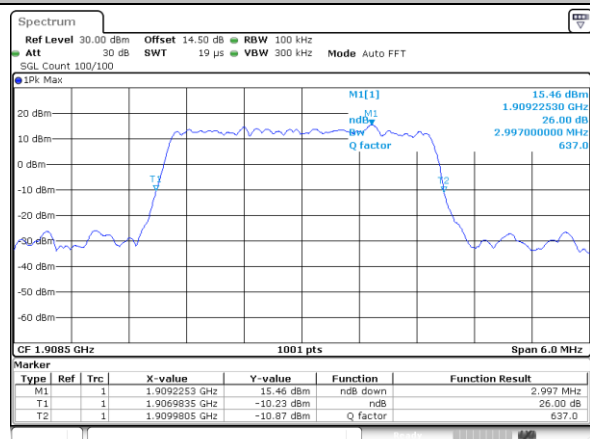
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Highest Channel / 1.4MHz / 64QAM



Date: 13.FEB.2018 13:43:57

Highest Channel / 3MHz / 64QAM

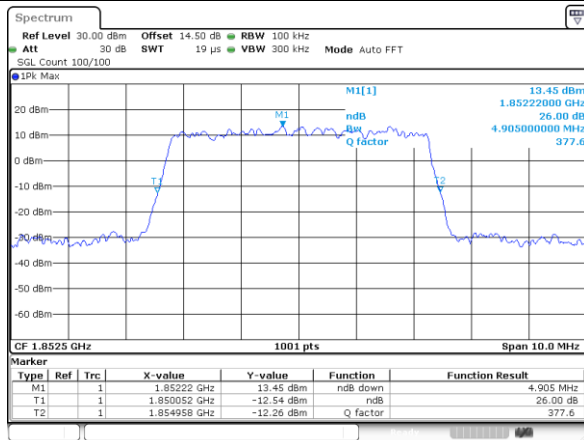


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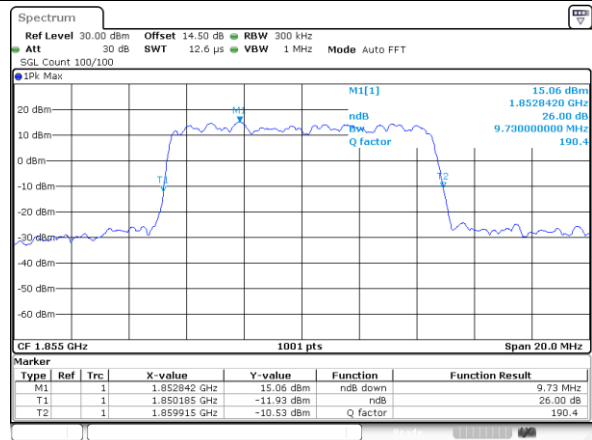
LTE Band 2

Lowest Channel / 5MHz / 64QAM



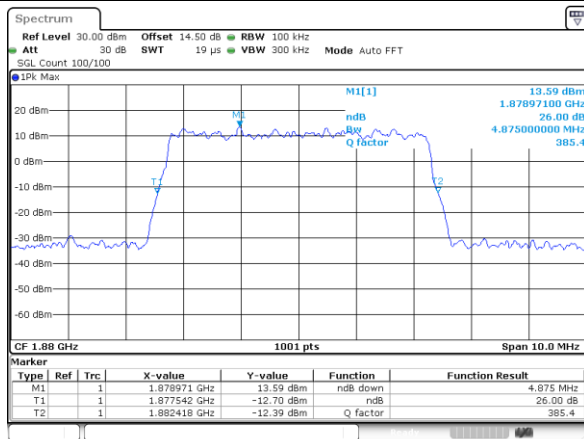
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Lowest Channel / 10MHz / 64QAM



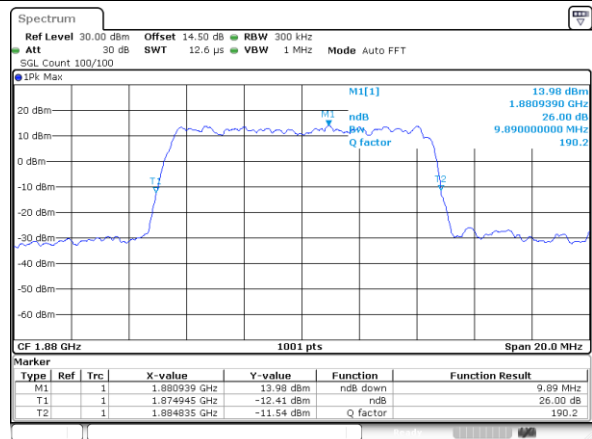
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Middle Channel / 5MHz / 64QAM



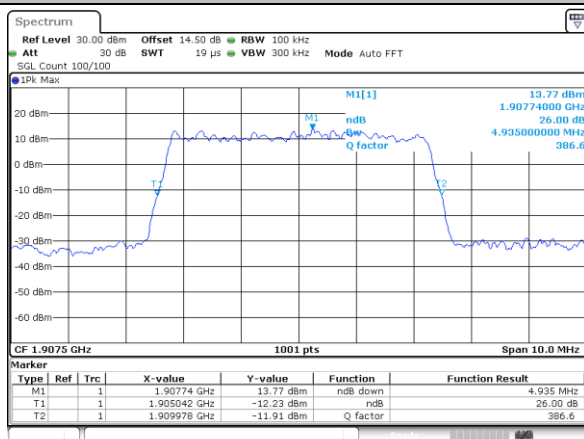
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Middle Channel / 10MHz / 64QAM



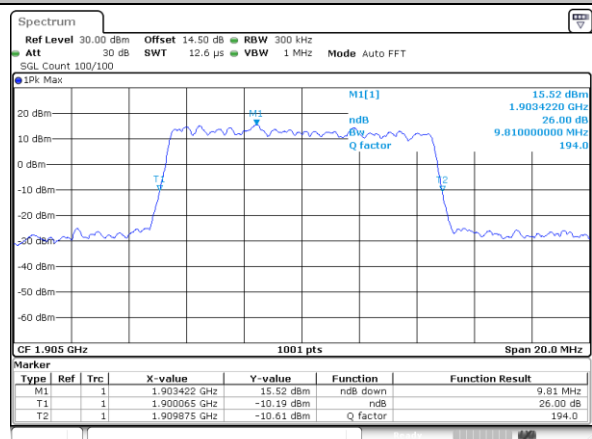
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Highest Channel / 5MHz / 64QAM



Date: 13.FEB.2018 14:00:47

Highest Channel / 10MHz / 64QAM



Date: 13.FEB.2018 14:09:11