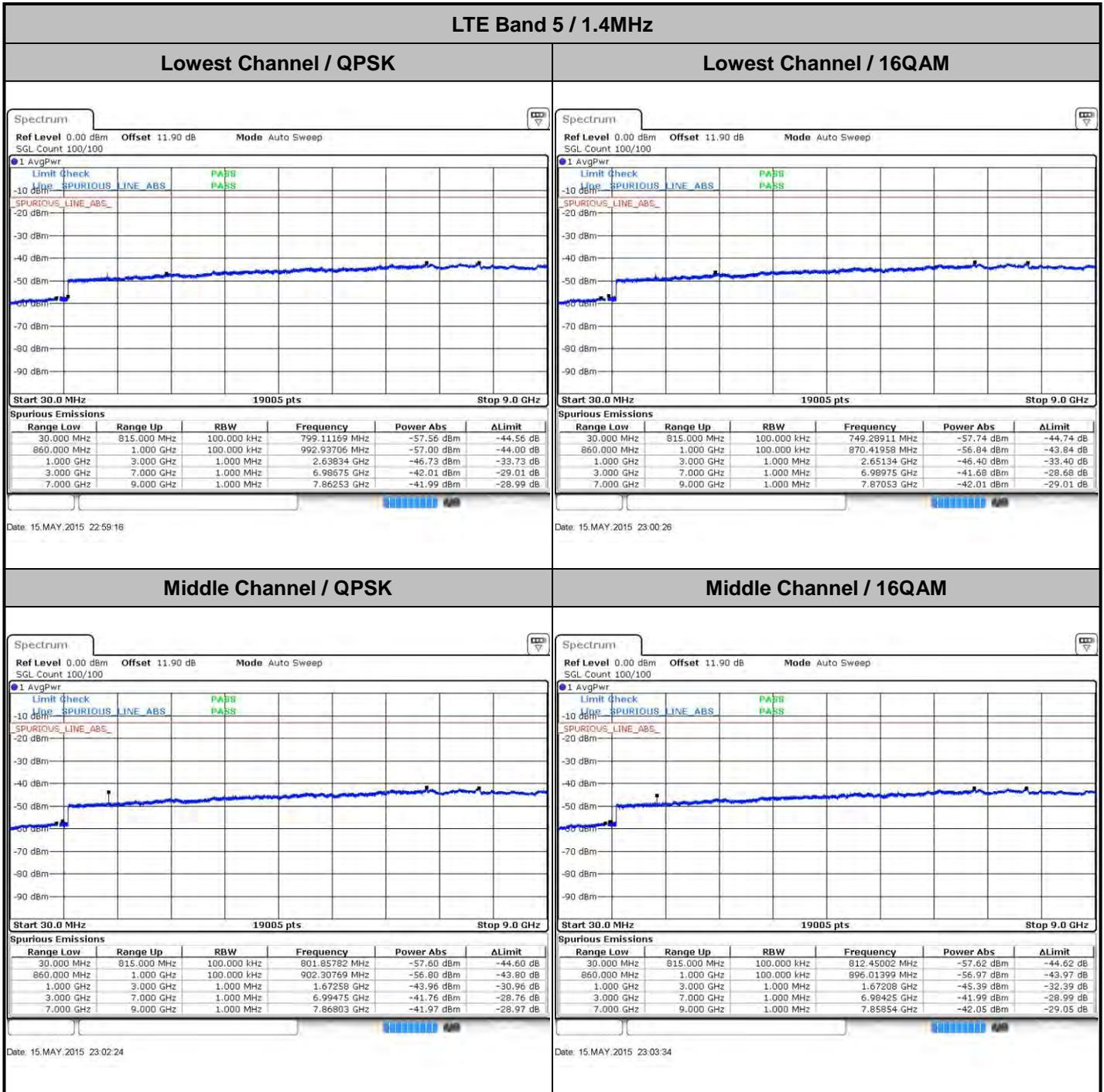




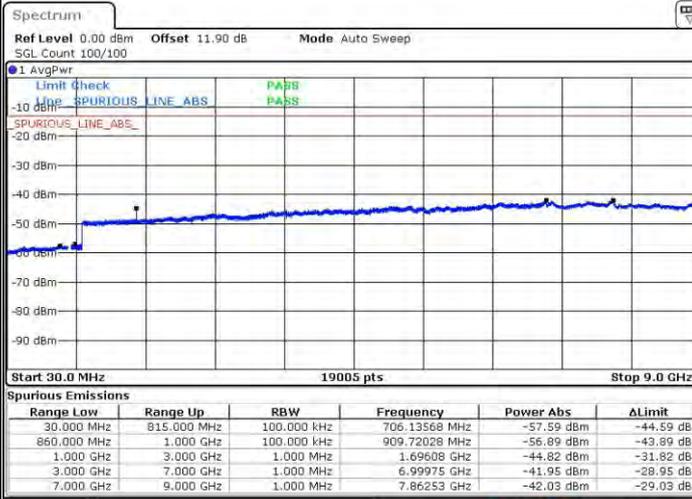
# Conducted Spurious Emission





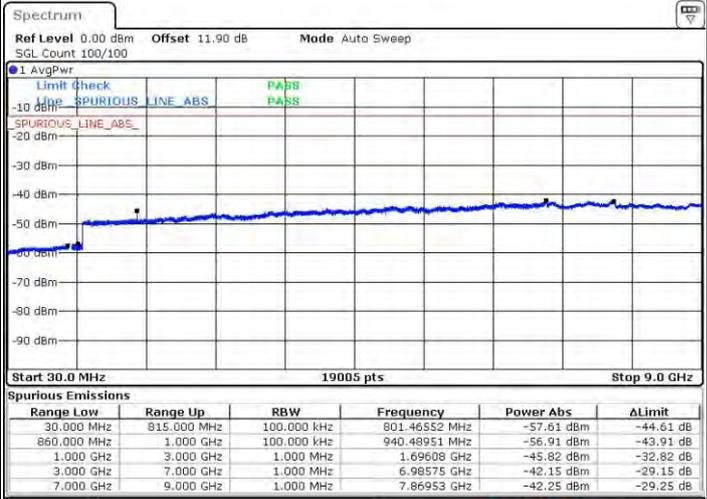
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 15.MAY.2015 23:13:20

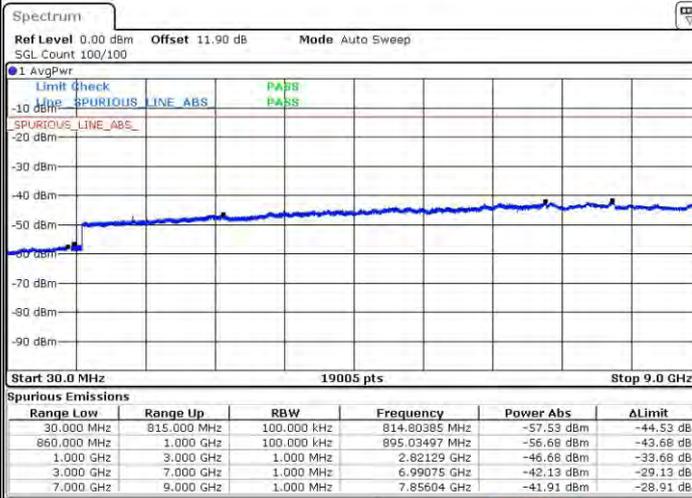
Highest Channel / 16QAM



Date: 15.MAY.2015 23:14:30

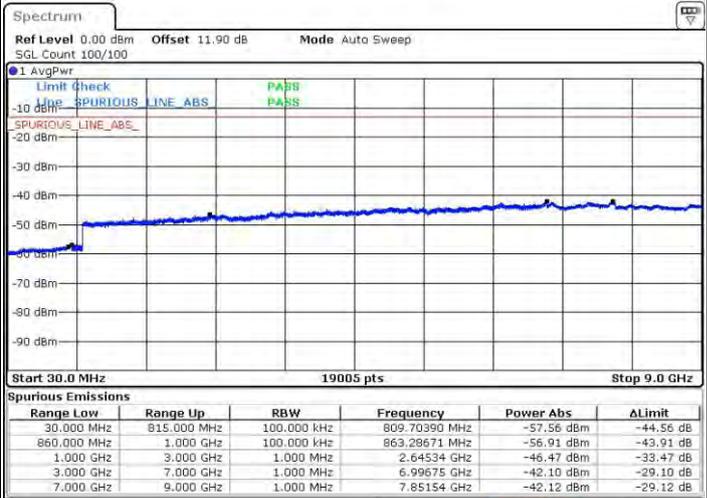
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 15.MAY.2015 21:56:29

Lowest Channel / 16QAM



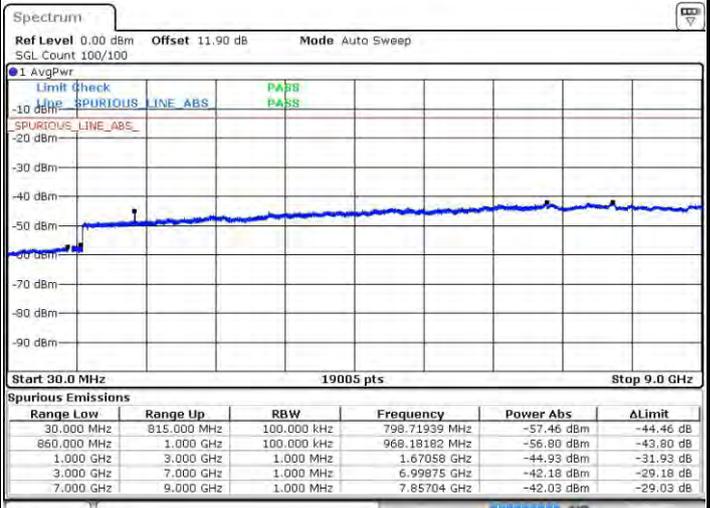
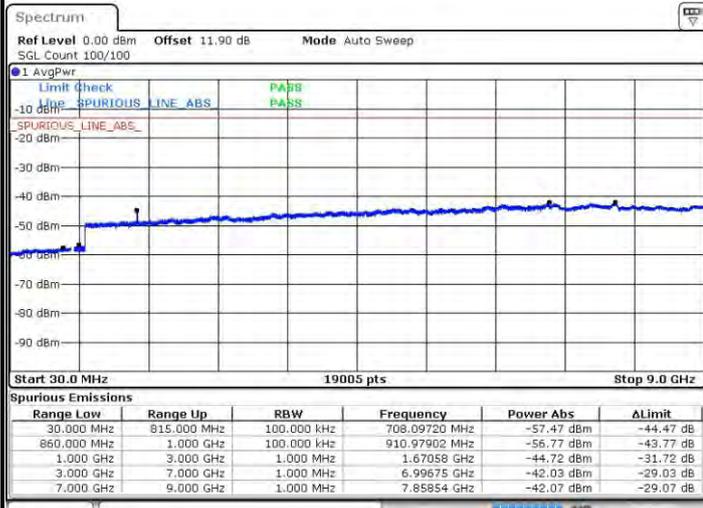
Date: 15.MAY.2015 21:57:39



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

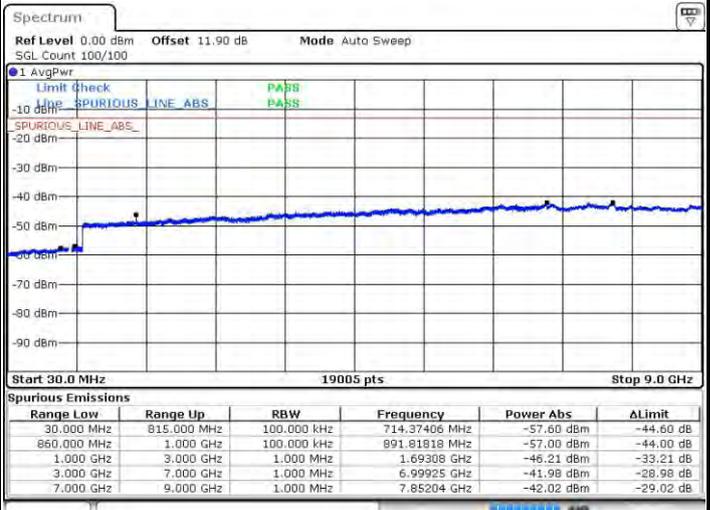
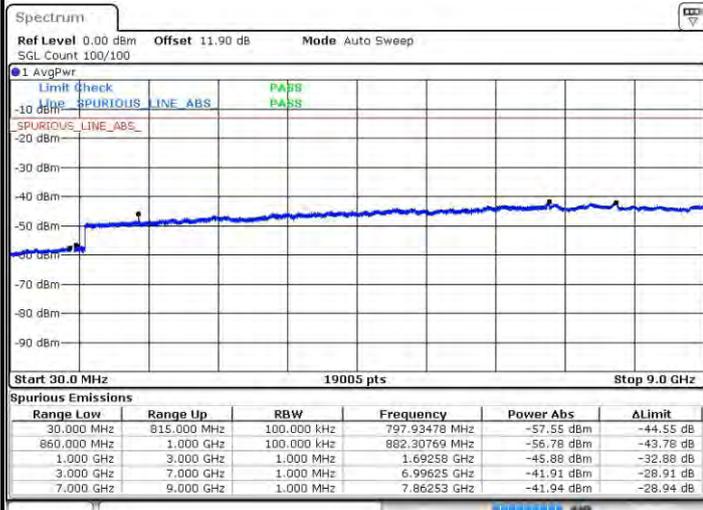


Date: 15.MAY.2015 21:59:36

Date: 15.MAY.2015 22:00:46

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.MAY.2015 22:07:22

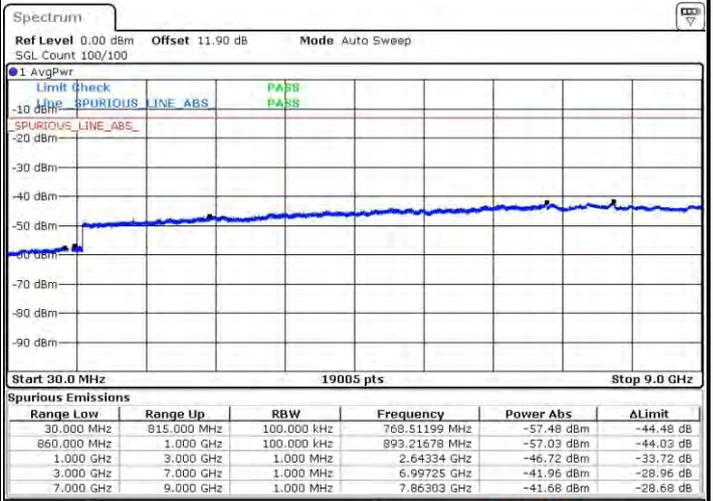
Date: 15.MAY.2015 22:08:32



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

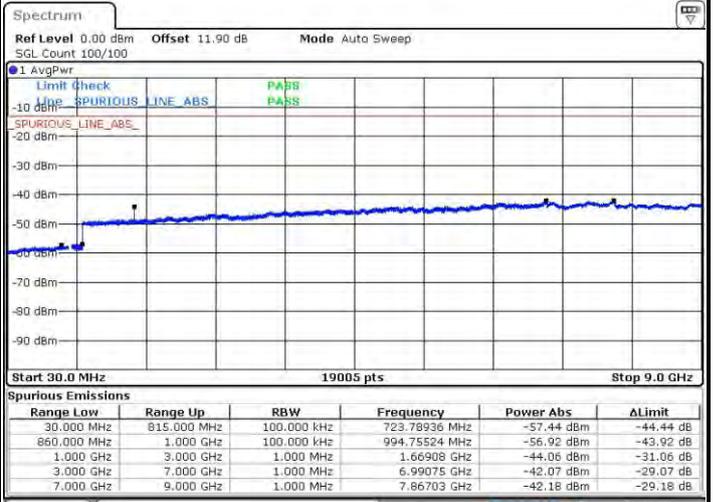
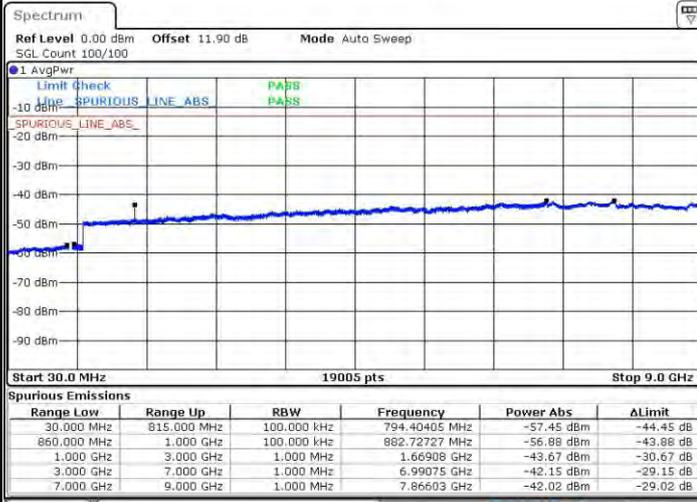


Date: 15.MAY.2015 22:15:22

Date: 15.MAY.2015 22:16:32

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 15.MAY.2015 22:18:29

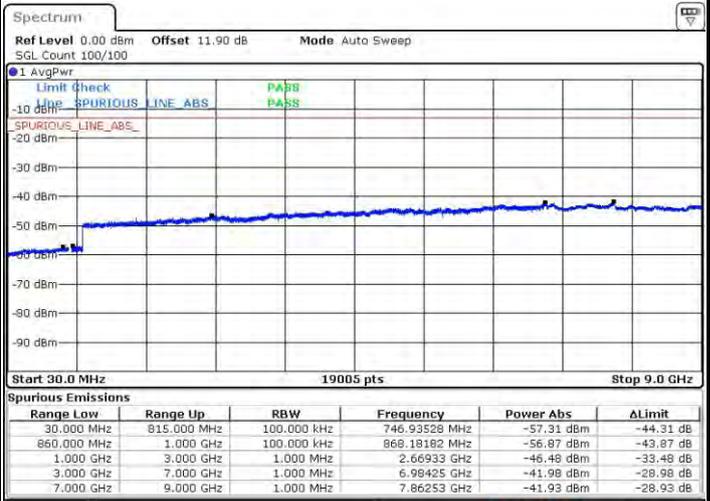
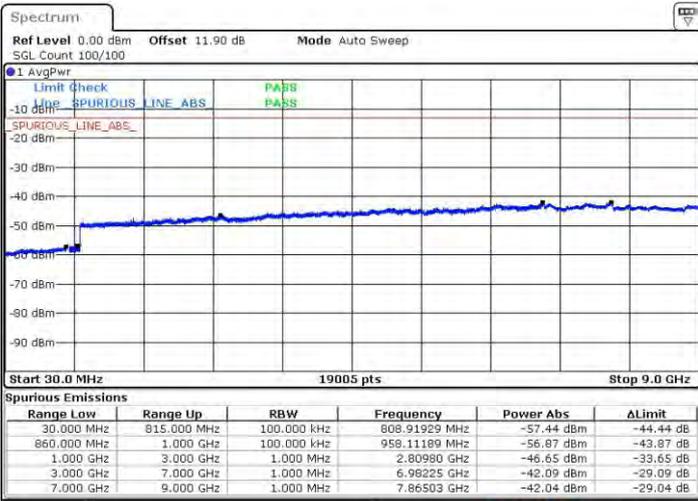
Date: 15.MAY.2015 22:19:39



LTE Band 5 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



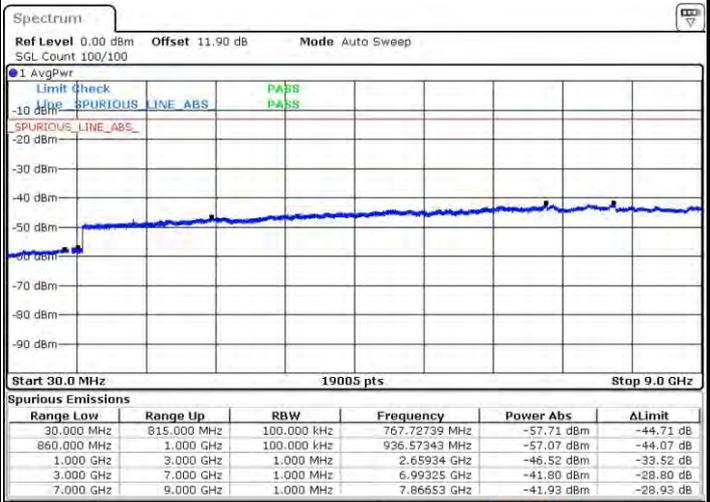
Date: 15.MAY.2015 22:26:16

Date: 15.MAY.2015 22:27:26

LTE Band 5 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



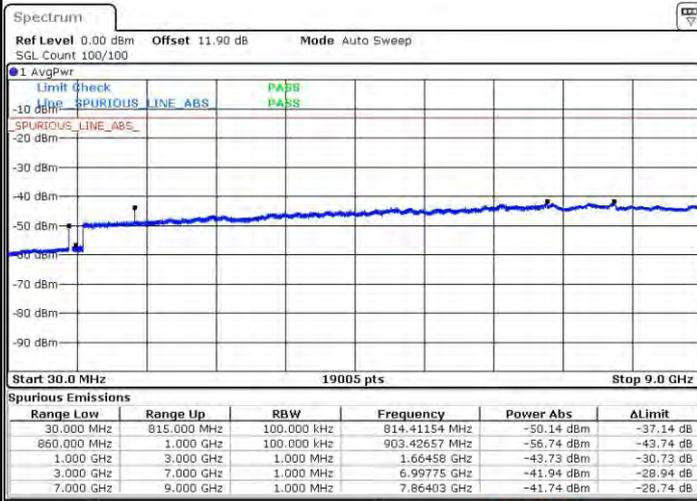
Date: 15.MAY.2015 22:39:49

Date: 15.MAY.2015 22:40:59



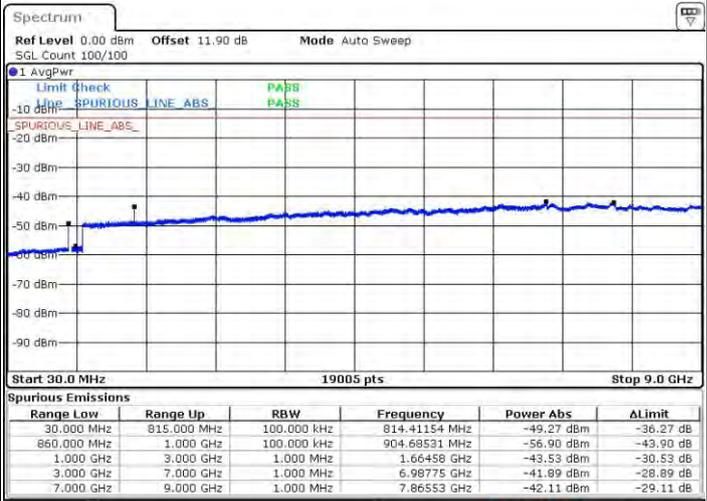
LTE Band 5 / 10MHz

Middle Channel / QPSK



Date: 15.MAY.2015 22:42:56

Middle Channel / 16QAM



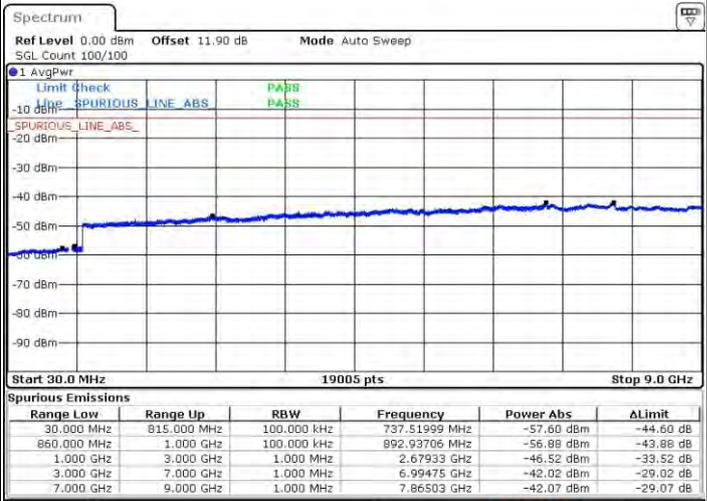
Date: 15.MAY.2015 22:44:06

Highest Channel / QPSK



Date: 15.MAY.2015 22:50:43

Highest Channel / 16QAM



Date: 15.MAY.2015 22:51:53



**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0129	PASS
40	Normal Voltage	0.0152	
30	Normal Voltage	0.0143	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0148	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0128	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0127	

**Note:**

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## LTE Band 7

### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	5.42	5.74	6.38	<b>PASS</b>
Middle CH	4.49	5.28	5.94	6.32	
Highest CH	4.38	5.19	5.80	6.12	



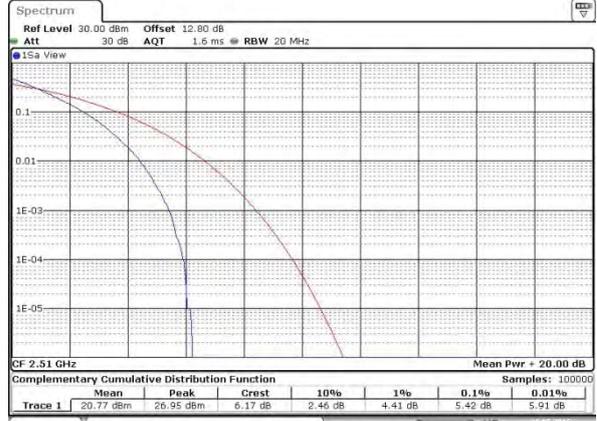
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 16 MAY 2015 03:28:48

Lowest Channel / Full RB



Date: 16 MAY 2015 03:27:22

Middle Channel / 1RB



Date: 16 MAY 2015 03:27:38

Middle Channel / Full RB



Date: 16 MAY 2015 03:27:50

Highest Channel / 1RB



Date: 16 MAY 2015 03:28:16

Highest Channel / Full RB



Date: 16 MAY 2015 03:28:30



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 16 MAY 2015 03:23:04

Lowest Channel / Full RB



Date: 16 MAY 2015 03:24:12

Middle Channel / 1RB



Date: 16 MAY 2015 03:24:26

Middle Channel / Full RB



Date: 16 MAY 2015 03:24:37

Highest Channel / 1RB



Date: 16 MAY 2015 03:24:58

Highest Channel / Full RB



Date: 16 MAY 2015 03:25:56



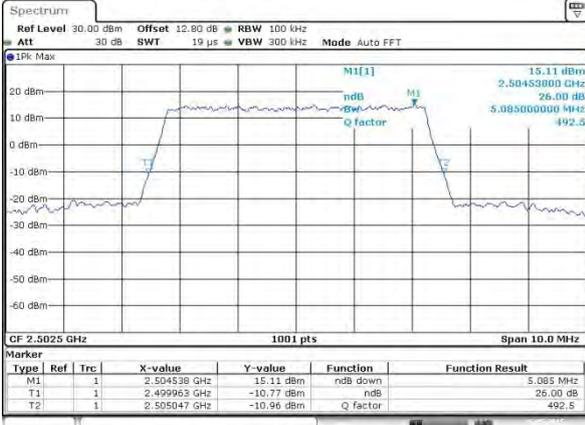
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.09	5.09	9.99	9.97	14.81	14.90	20.42	20.58
Middle CH	-	-	-	-	5.08	5.10	10.09	10.03	14.72	14.78	20.50	20.46
Highest CH	-	-	-	-	5.11	5.07	9.93	9.99	14.66	14.69	20.38	20.18



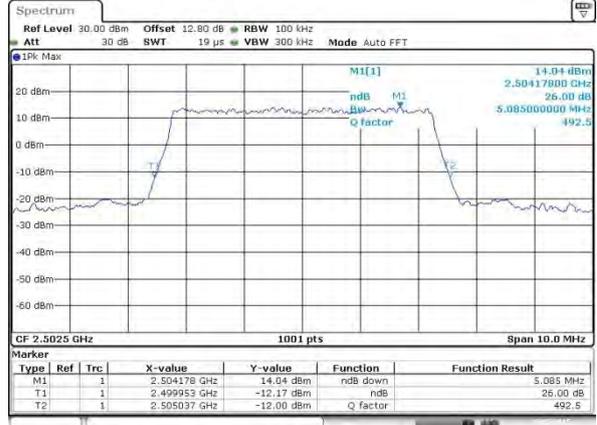
LTE Band 7

Lowest Channel / 5MHz / QPSK



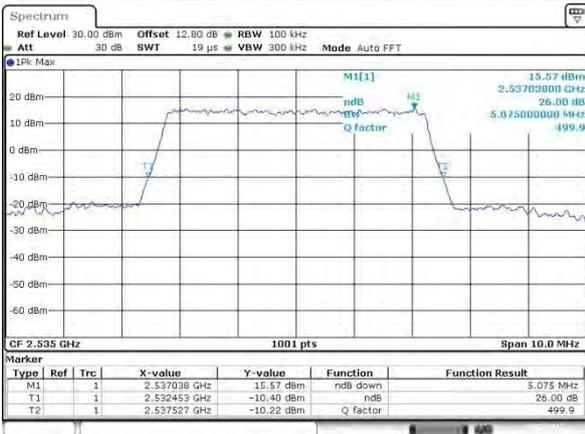
Date: 16 MAY 2015 02:08:39

Lowest Channel / 5MHz / 16QAM



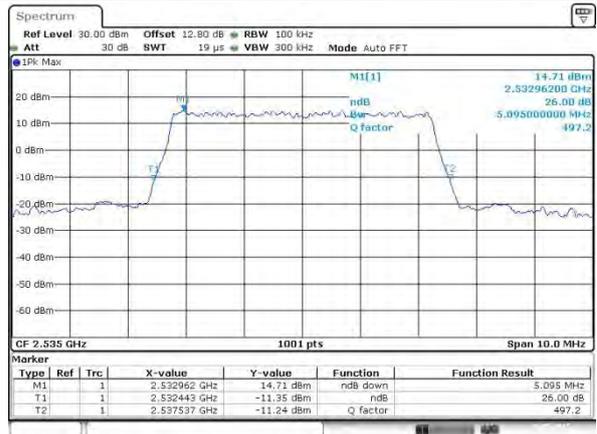
Date: 16 MAY 2015 02:08:52

Middle Channel / 5MHz / QPSK



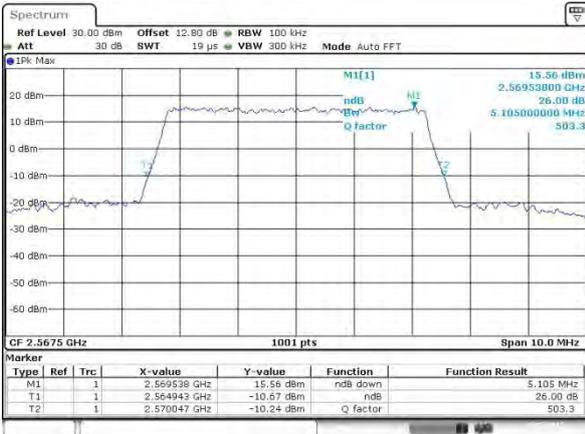
Date: 16 MAY 2015 02:14:25

Middle Channel / 5MHz / 16QAM



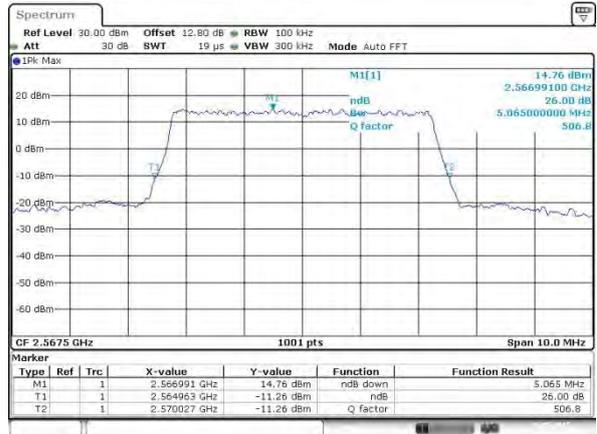
Date: 16 MAY 2015 02:14:38

Highest Channel / 5MHz / QPSK



Date: 16 MAY 2015 02:17:31

Highest Channel / 5MHz / 16QAM

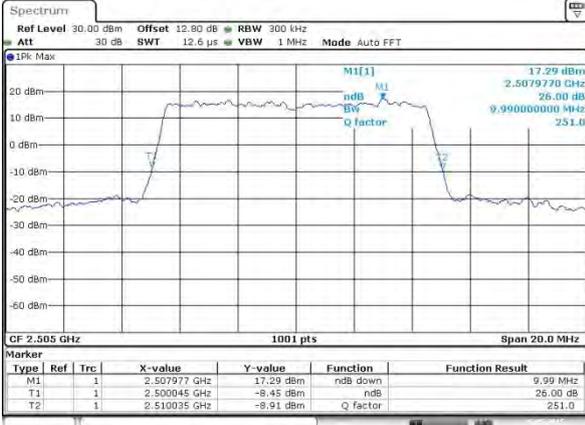


Date: 16 MAY 2015 02:17:44



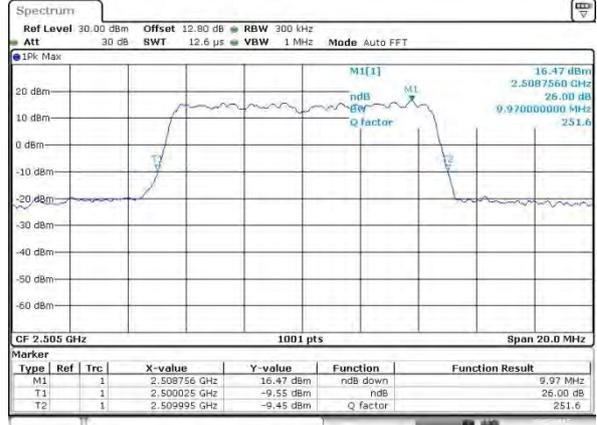
LTE Band 7

Lowest Channel / 10MHz / QPSK



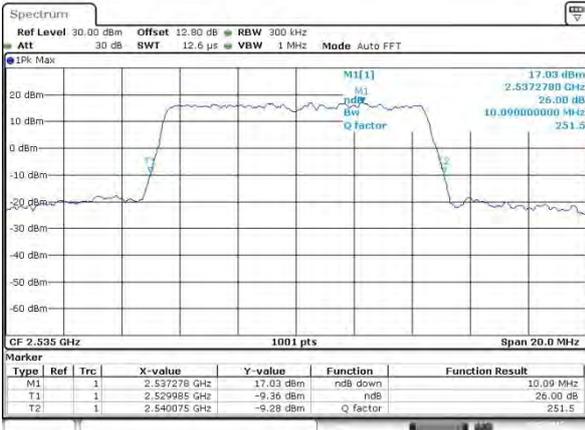
Date: 16 MAY 2015 02:25:18

Lowest Channel / 10MHz / 16QAM



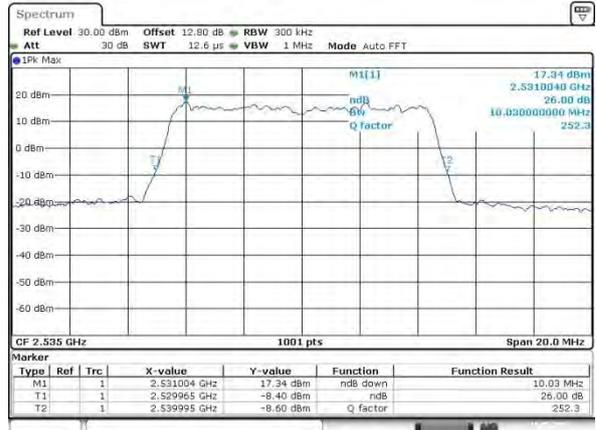
Date: 16 MAY 2015 02:25:31

Middle Channel / 10MHz / QPSK



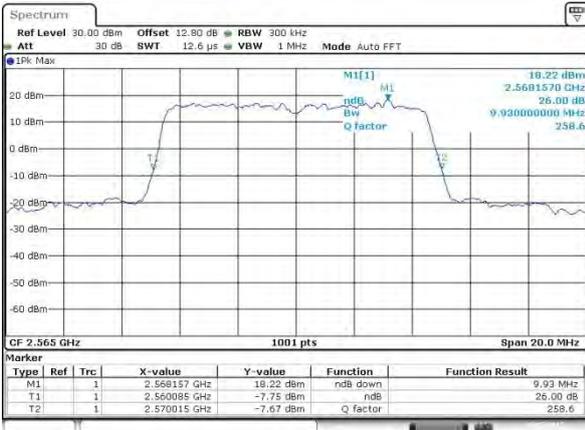
Date: 16 MAY 2015 02:33:04

Middle Channel / 10MHz / 16QAM



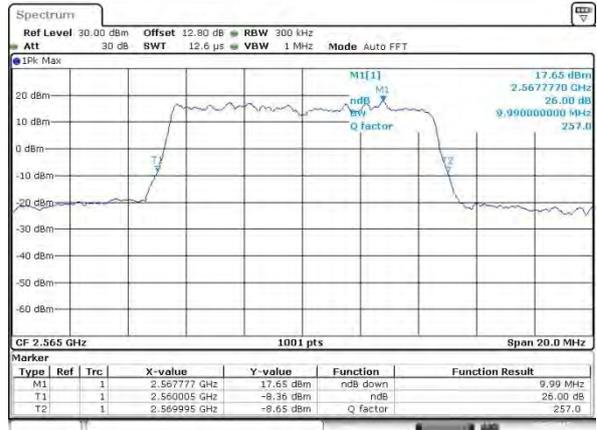
Date: 16 MAY 2015 02:33:16

Highest Channel / 10MHz / QPSK



Date: 16 MAY 2015 02:36:10

Highest Channel / 10MHz / 16QAM

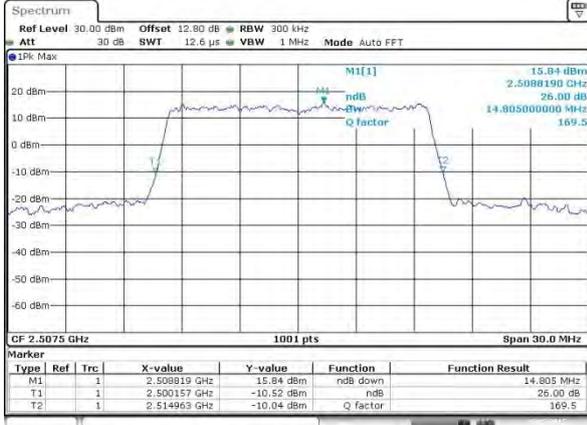


Date: 16 MAY 2015 02:36:23



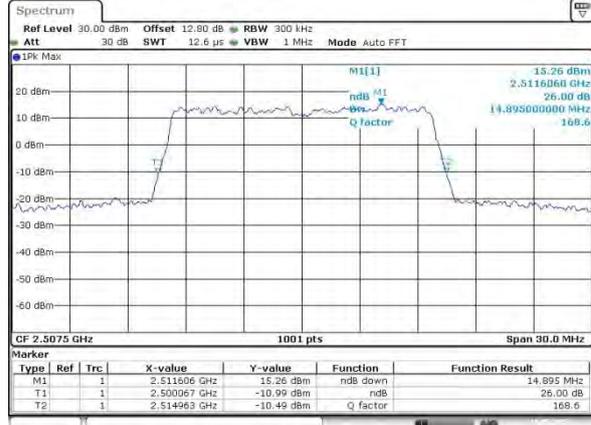
LTE Band 7

Lowest Channel / 15MHz / QPSK



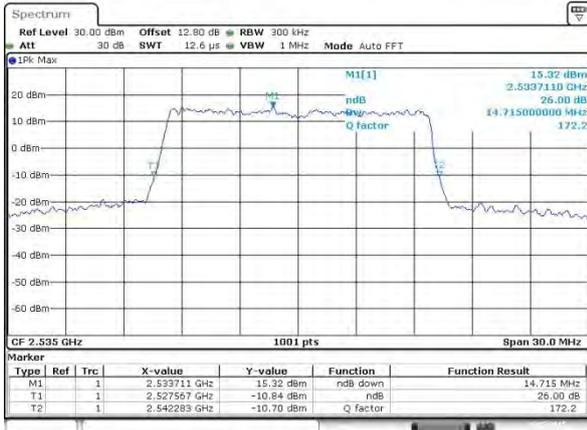
Date: 16 MAY 2015 02:43:56

Lowest Channel / 15MHz / 16QAM



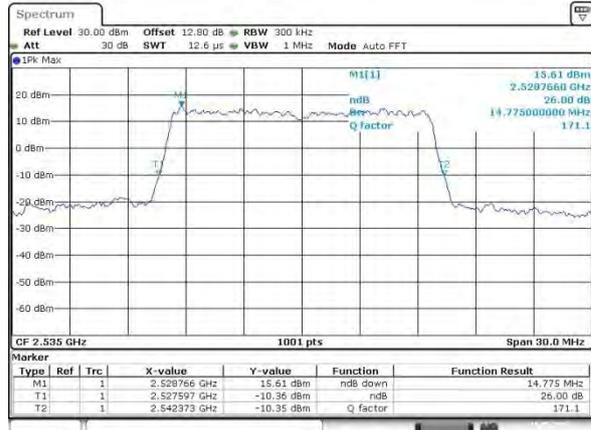
Date: 16 MAY 2015 02:44:08

Middle Channel / 15MHz / QPSK



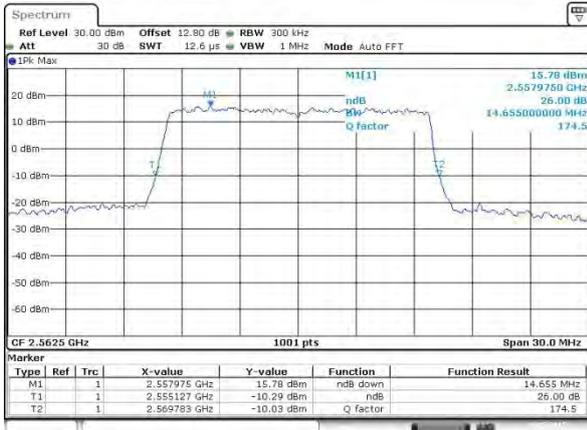
Date: 16 MAY 2015 02:51:41

Middle Channel / 15MHz / 16QAM



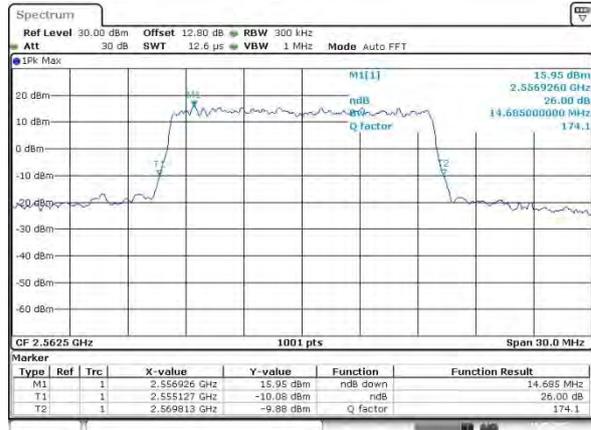
Date: 16 MAY 2015 02:51:54

Highest Channel / 15MHz / QPSK



Date: 16 MAY 2015 02:54:48

Highest Channel / 15MHz / 16QAM

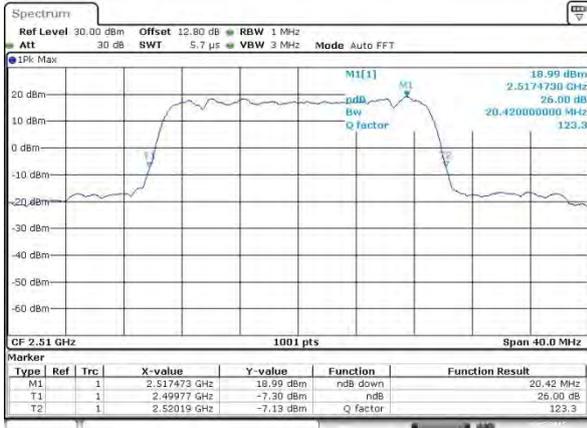


Date: 16 MAY 2015 02:55:00



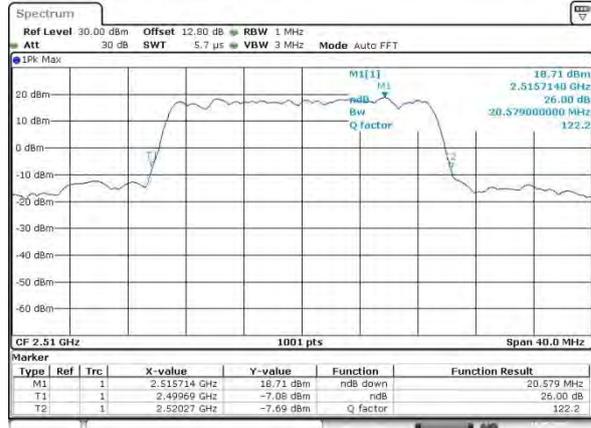
LTE Band 7

Lowest Channel / 20MHz / QPSK



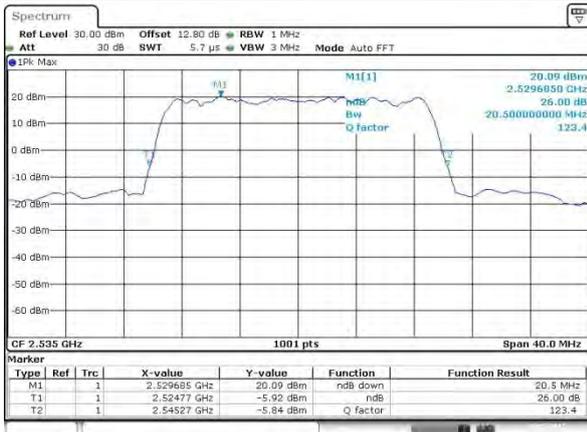
Date: 16 MAY 2015 03:02:34

Lowest Channel / 20MHz / 16QAM



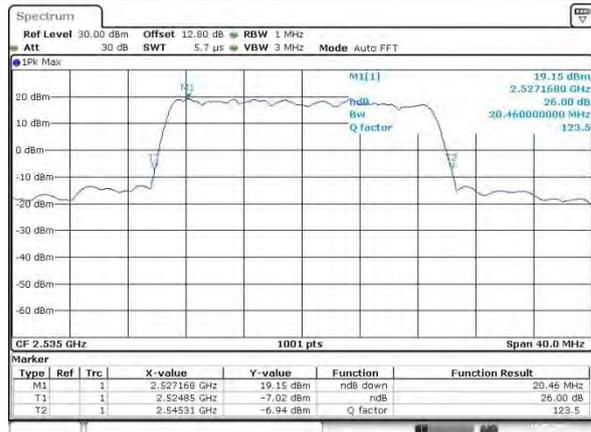
Date: 16 MAY 2015 03:02:46

Middle Channel / 20MHz / QPSK



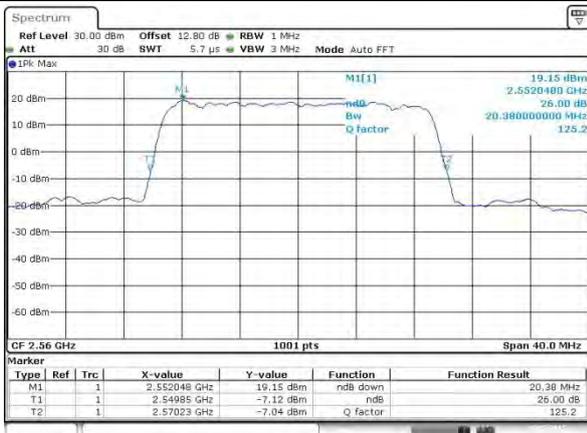
Date: 16 MAY 2015 03:11:54

Middle Channel / 20MHz / 16QAM



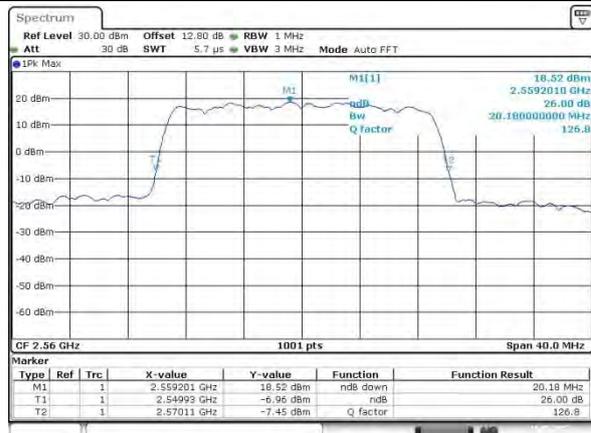
Date: 16 MAY 2015 03:12:06

Highest Channel / 20MHz / QPSK



Date: 16 MAY 2015 03:15:01

Highest Channel / 20MHz / 16QAM



Date: 16 MAY 2015 03:15:13



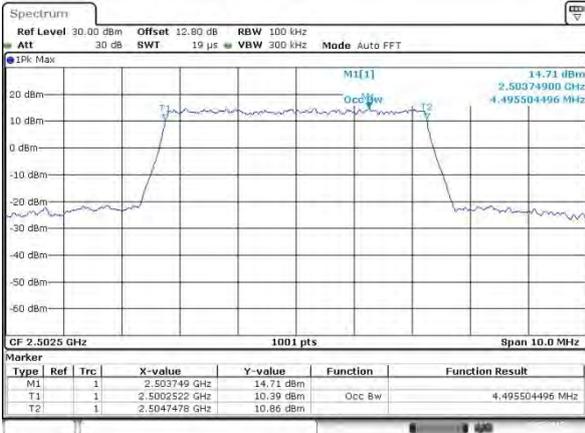
### Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	9.05	9.05	13.46	13.49	18.50	18.50
Middle CH	-	-	-	-	4.51	4.51	9.07	9.01	13.49	13.49	18.42	18.42
Highest CH	-	-	-	-	4.50	4.50	9.05	9.05	13.46	13.46	18.34	18.34



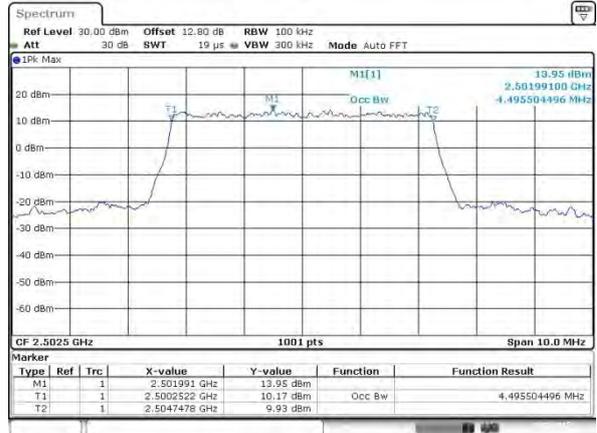
LTE Band 7

Lowest Channel / 5MHz / QPSK



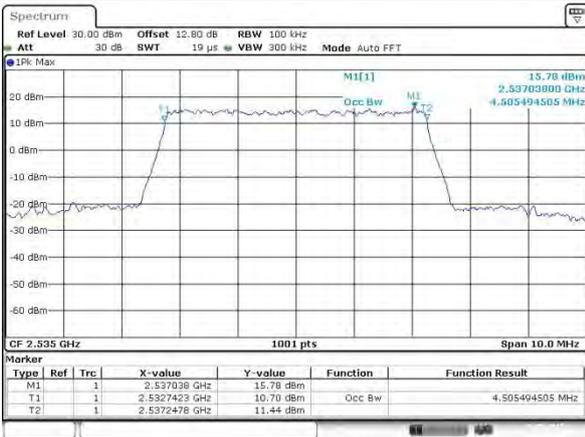
Date: 16 MAY 2015 02:08:16

Lowest Channel / 5MHz / 16QAM



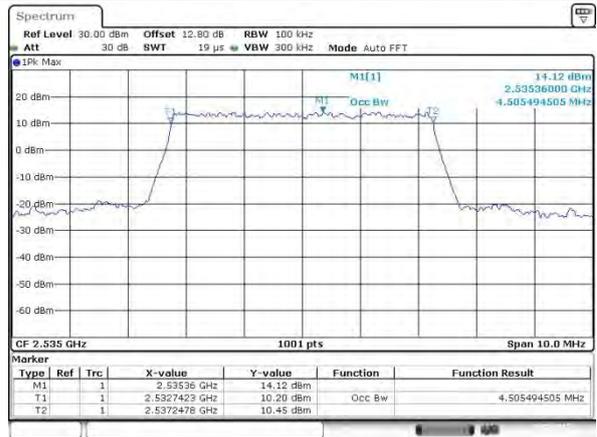
Date: 16 MAY 2015 02:08:26

Middle Channel / 5MHz / QPSK



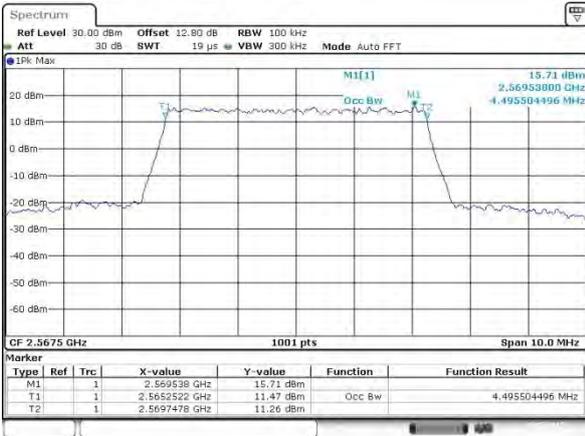
Date: 16 MAY 2015 02:14:01

Middle Channel / 5MHz / 16QAM



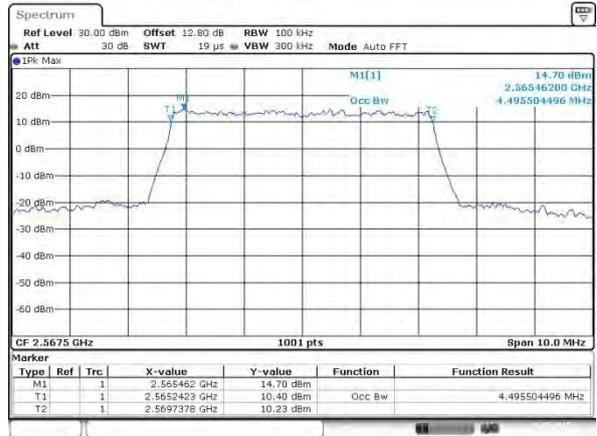
Date: 16 MAY 2015 02:14:12

Highest Channel / 5MHz / QPSK



Date: 16 MAY 2015 02:17:08

Highest Channel / 5MHz / 16QAM

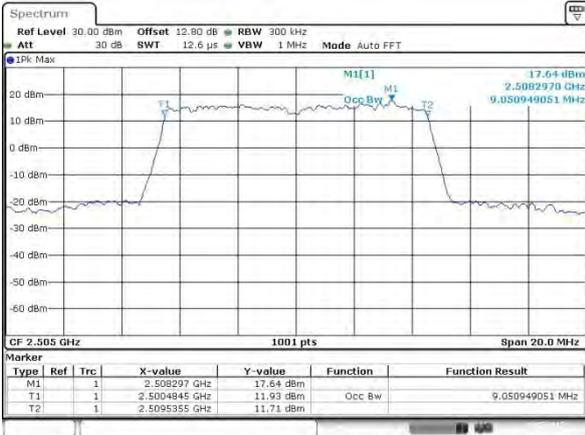


Date: 16 MAY 2015 02:17:18



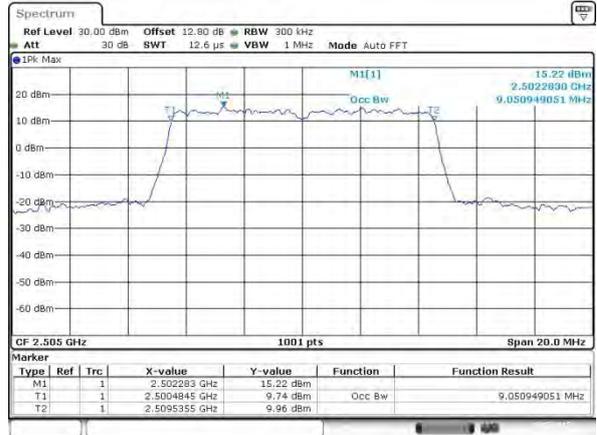
LTE Band 7

Lowest Channel / 10MHz / QPSK



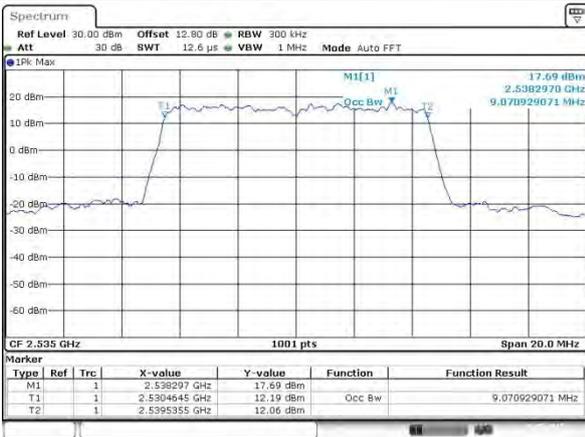
Date: 16 MAY 2015 02:24:54

Lowest Channel / 10MHz / 16QAM



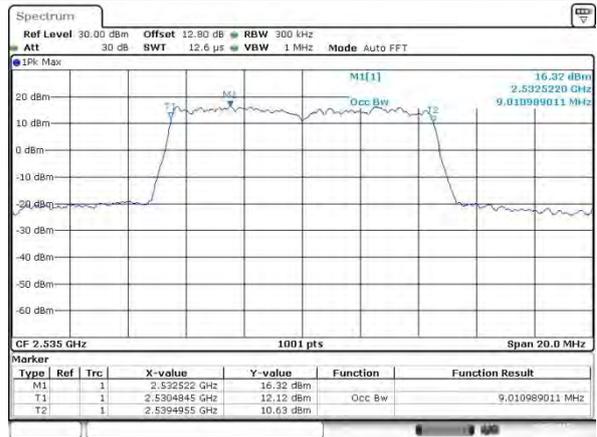
Date: 16 MAY 2015 02:25:05

Middle Channel / 10MHz / QPSK



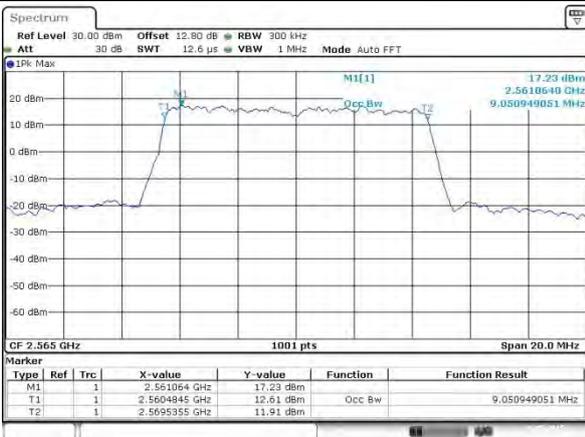
Date: 16 MAY 2015 02:32:40

Middle Channel / 10MHz / 16QAM



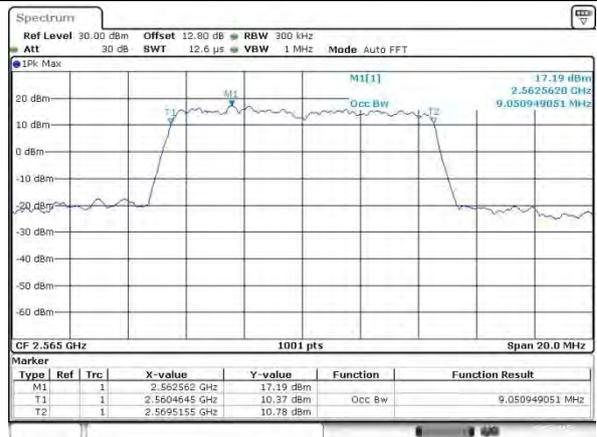
Date: 16 MAY 2015 02:32:51

Highest Channel / 10MHz / QPSK



Date: 16 MAY 2015 02:35:46

Highest Channel / 10MHz / 16QAM

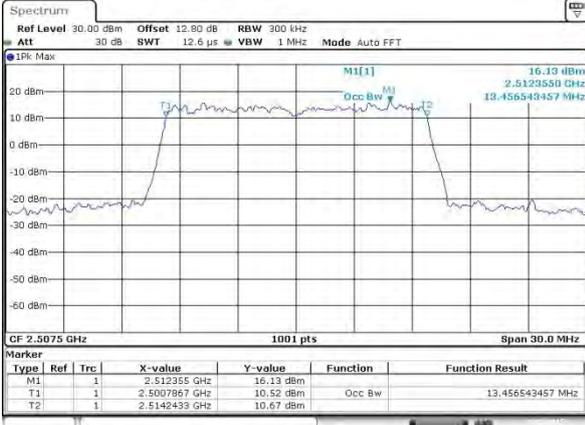


Date: 16 MAY 2015 02:35:57



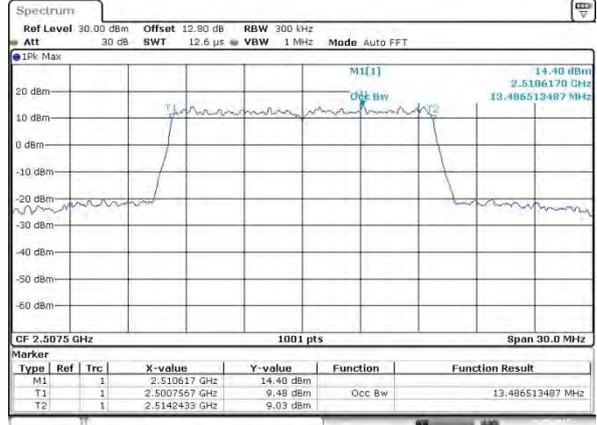
LTE Band 7

Lowest Channel / 15MHz / QPSK



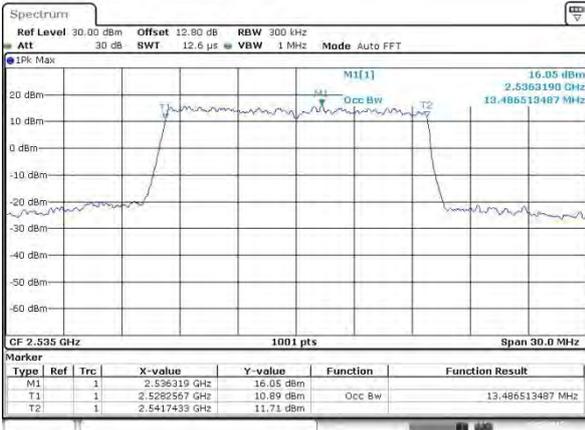
Date: 16 MAY 2015 02:43:32

Lowest Channel / 15MHz / 16QAM



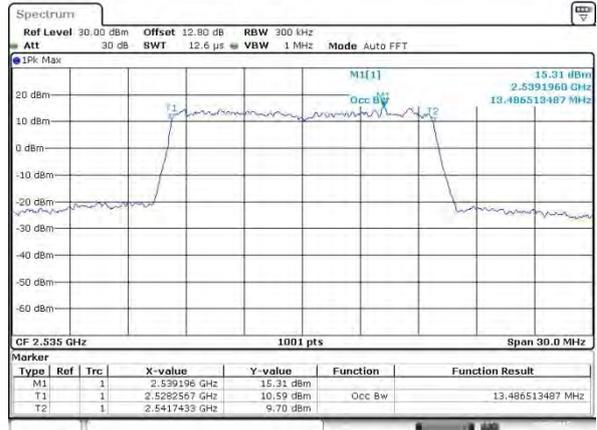
Date: 16 MAY 2015 02:43:43

Middle Channel / 15MHz / QPSK



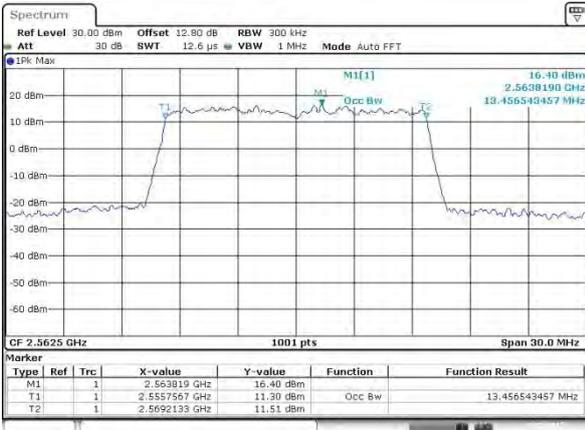
Date: 16 MAY 2015 02:51:18

Middle Channel / 15MHz / 16QAM



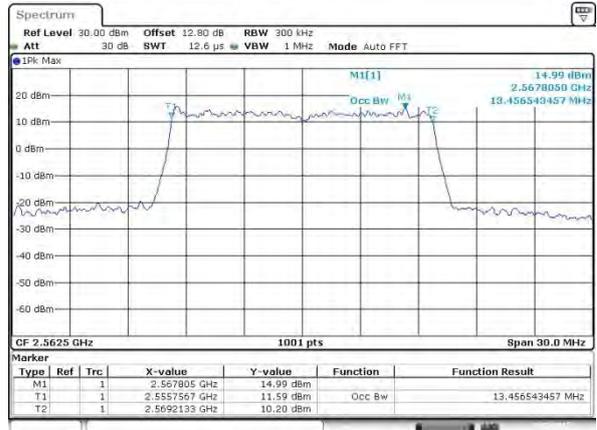
Date: 16 MAY 2015 02:51:28

Highest Channel / 15MHz / QPSK



Date: 16 MAY 2015 02:54:24

Highest Channel / 15MHz / 16QAM

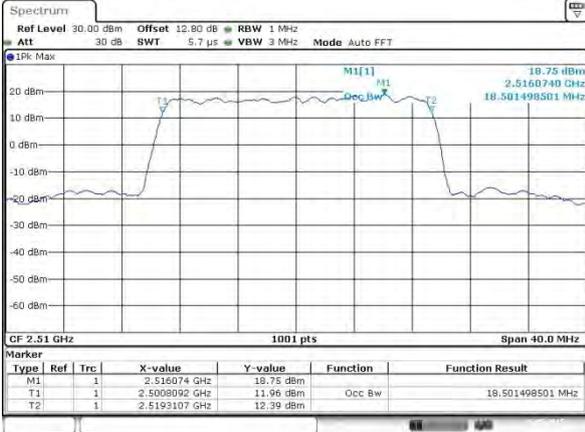


Date: 16 MAY 2015 02:54:35



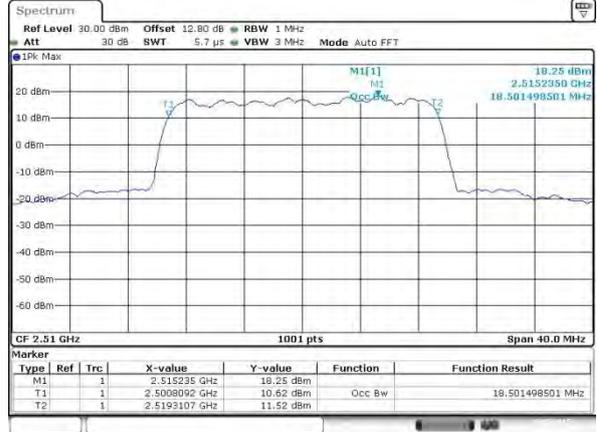
LTE Band 7

Lowest Channel / 20MHz / QPSK



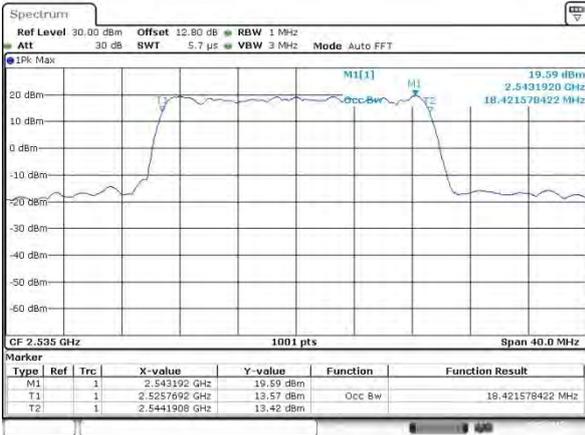
Date: 16 MAY 2015 03:02:10

Lowest Channel / 20MHz / 16QAM



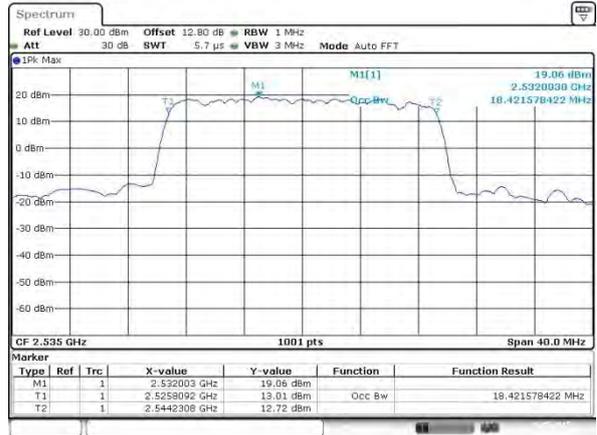
Date: 16 MAY 2015 03:02:21

Middle Channel / 20MHz / QPSK



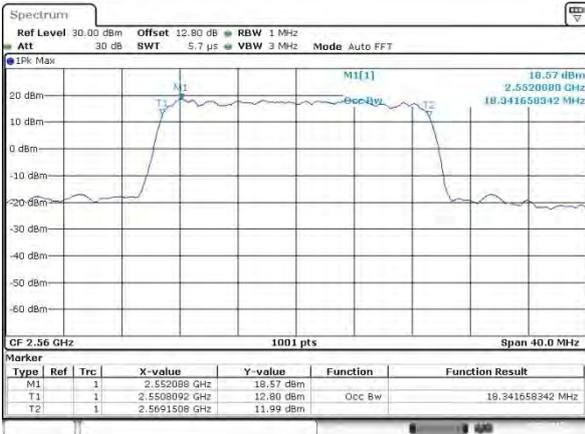
Date: 16 MAY 2015 03:11:30

Middle Channel / 20MHz / 16QAM



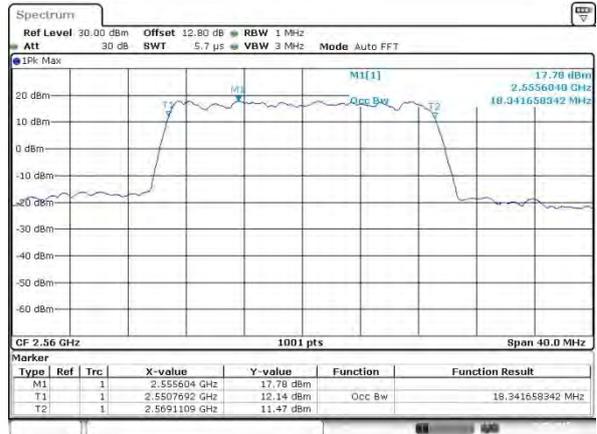
Date: 16 MAY 2015 03:11:41

Highest Channel / 20MHz / QPSK



Date: 16 MAY 2015 03:14:37

Highest Channel / 20MHz / 16QAM



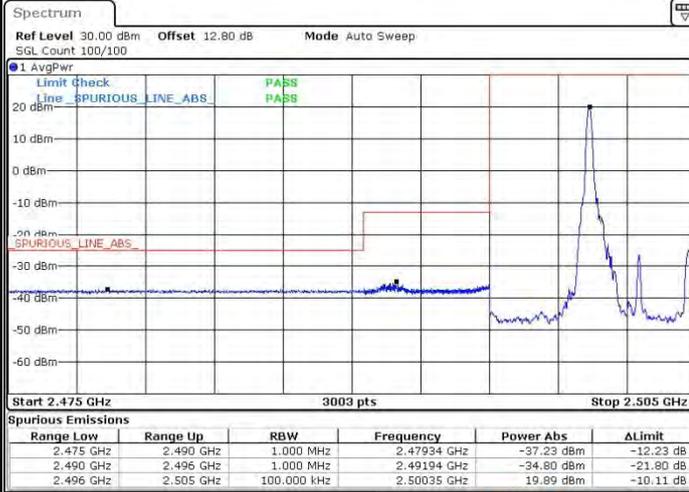
Date: 16 MAY 2015 03:14:48



# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



Date: 16 MAY 2015 02:08:01

### Highest Band Edge / 1 RB



Date: 16 MAY 2015 02:18:53

### Lowest Band Edge / Full RB



Date: 16 MAY 2015 02:10:20

### Highest Band Edge / Full RB

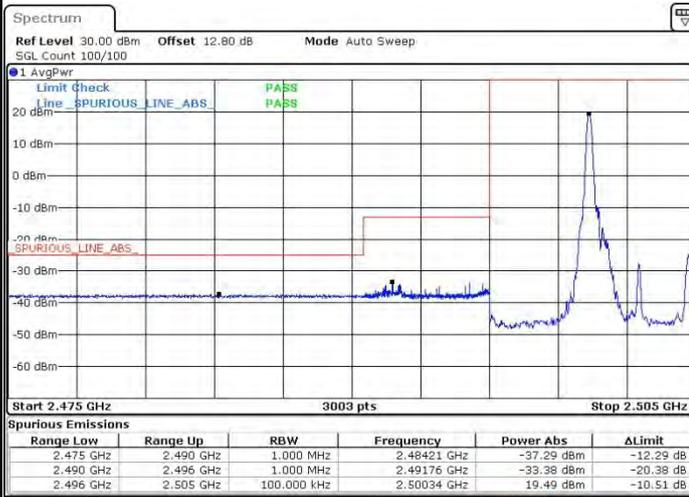


Date: 16 MAY 2015 02:21:13



LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 16.MAY.2015 02:09:11

Highest Band Edge / 1 RB



Date: 16.MAY.2015 02:20:03

Lowest Band Edge / Full RB



Date: 16.MAY.2015 02:11:30

Highest Band Edge / Full RB

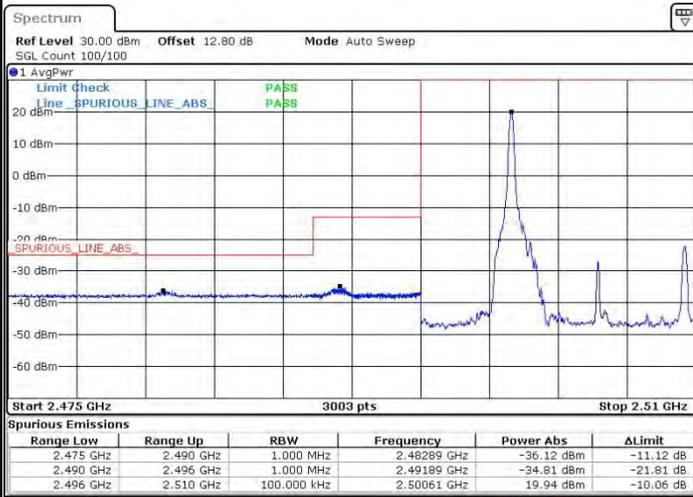


Date: 16.MAY.2015 02:22:23



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



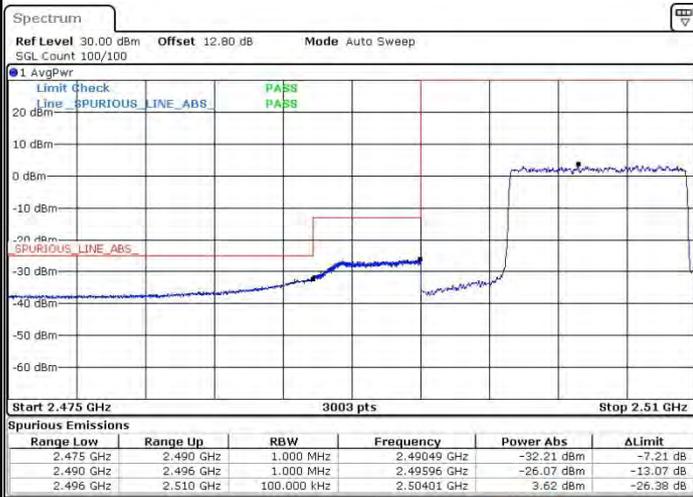
Date: 16 MAY 2015 02:28:40

Highest Band Edge / 1 RB



Date: 16 MAY 2015 02:37:32

Lowest Band Edge / Full RB



Date: 16 MAY 2015 02:29:00

Highest Band Edge / Full RB

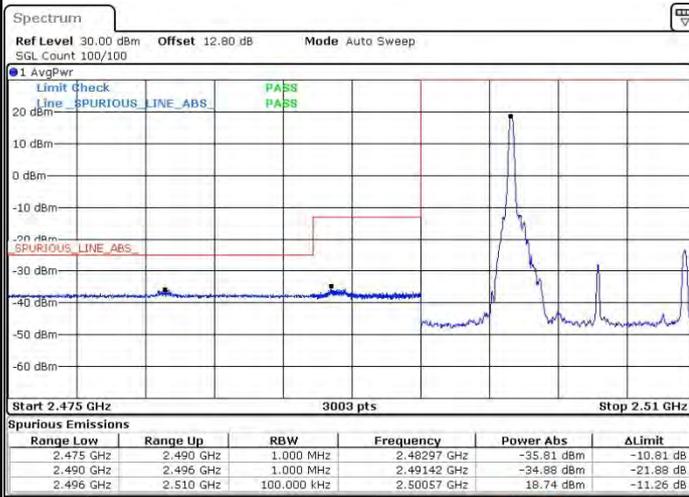


Date: 16 MAY 2015 02:39:51



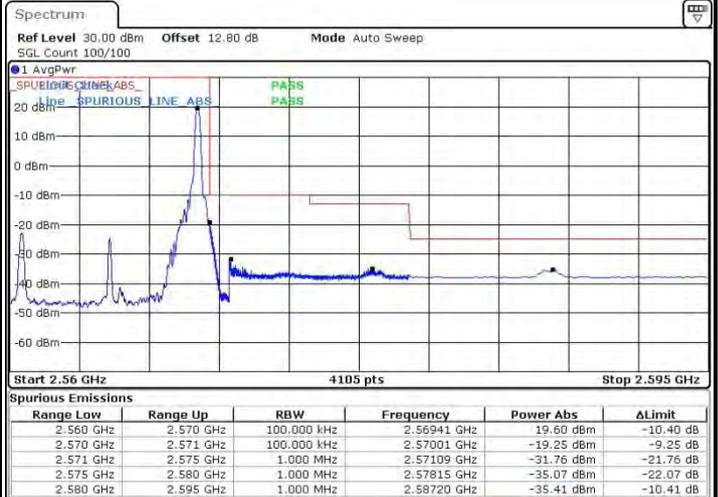
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 16 MAY 2015 02:27:50

Highest Band Edge / 1 RB



Date: 16 MAY 2015 02:38:41

Lowest Band Edge / Full RB



Date: 16 MAY 2015 02:30:09

Highest Band Edge / Full RB

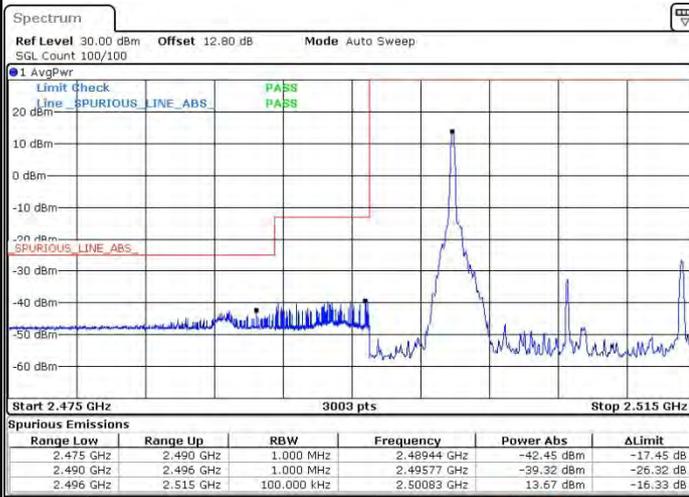


Date: 16 MAY 2015 02:41:01



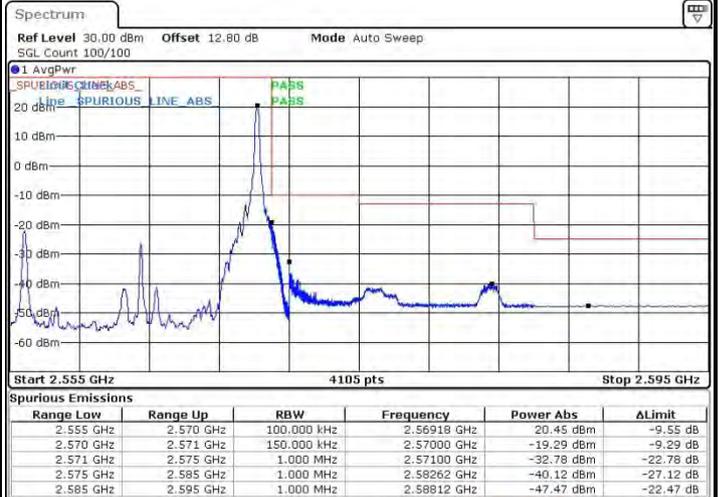
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



Date: 16.MAY.2015 02:45:17

Highest Band Edge / 1 RB



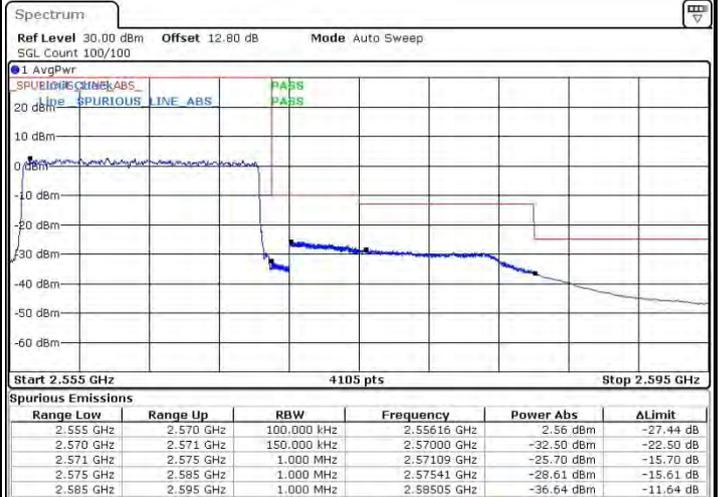
Date: 16.MAY.2015 02:56:09

Lowest Band Edge / Full RB



Date: 16.MAY.2015 02:47:37

Highest Band Edge / Full RB

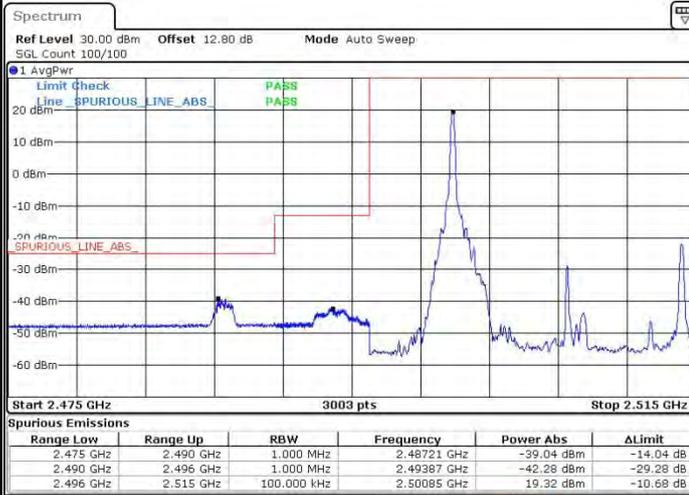


Date: 16.MAY.2015 02:58:29



LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



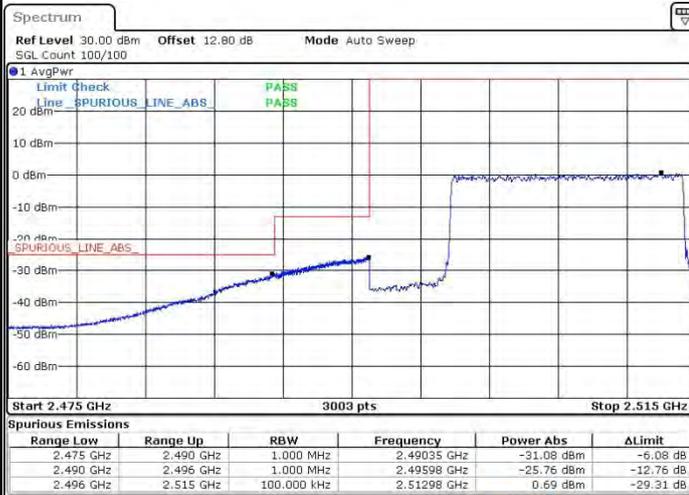
Date: 16 MAY 2015 02:46:27

Highest Band Edge / 1 RB



Date: 16 MAY 2015 02:57:19

Lowest Band Edge / Full RB



Date: 16 MAY 2015 02:48:47

Highest Band Edge / Full RB

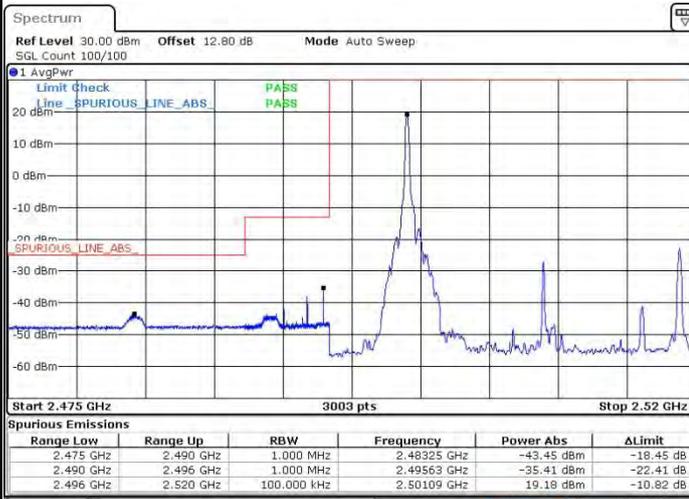


Date: 16 MAY 2015 02:59:39



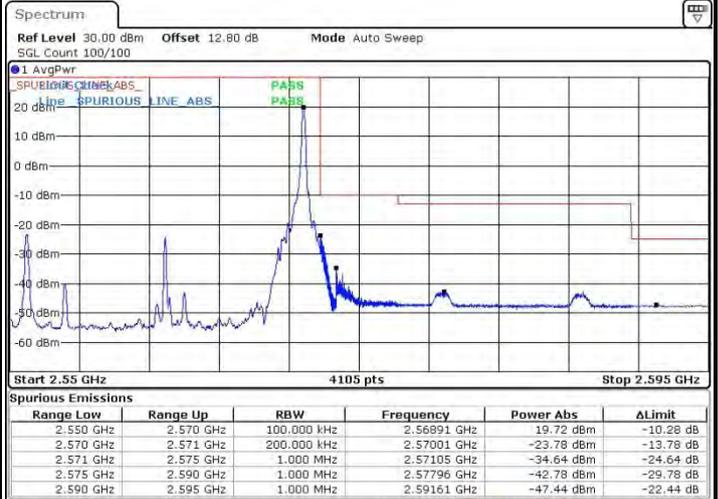
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



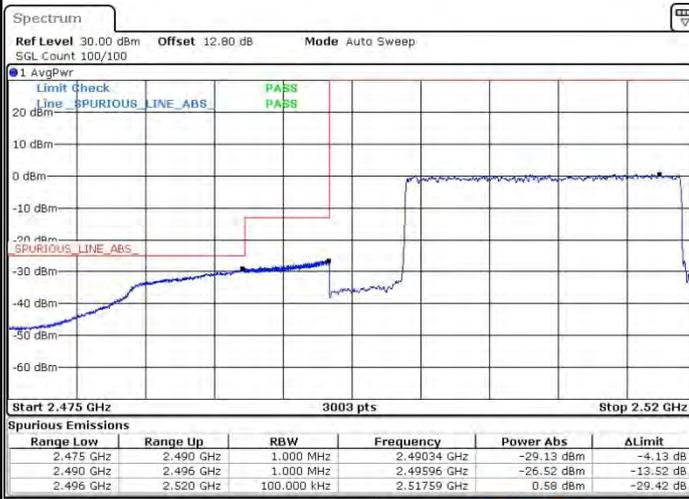
Date: 16.MAY.2015 03:03:55

Highest Band Edge / 1 RB



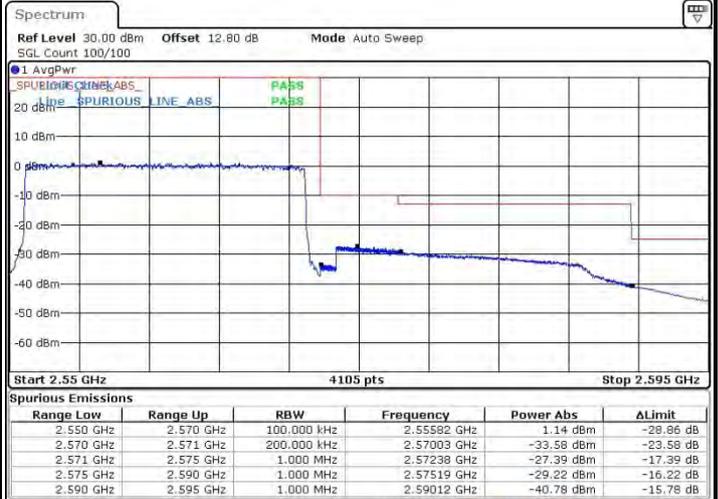
Date: 16.MAY.2015 03:16:23

Lowest Band Edge / Full RB



Date: 16.MAY.2015 03:06:15

Highest Band Edge / Full RB

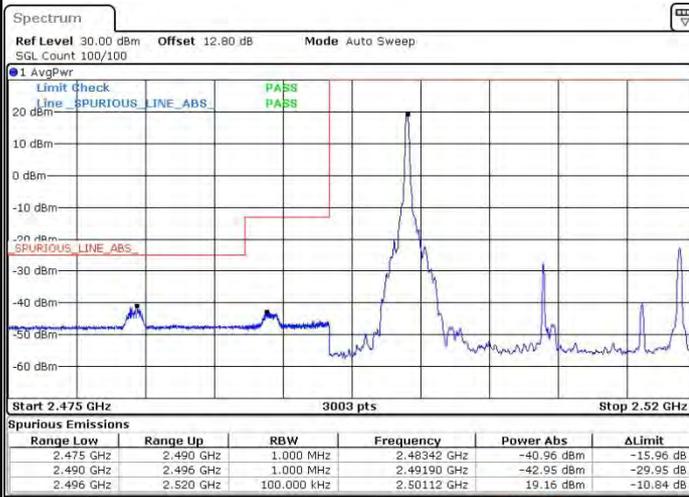


Date: 16.MAY.2015 03:19:53



LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 16.MAY.2015 03:05:05

Highest Band Edge / 1 RB



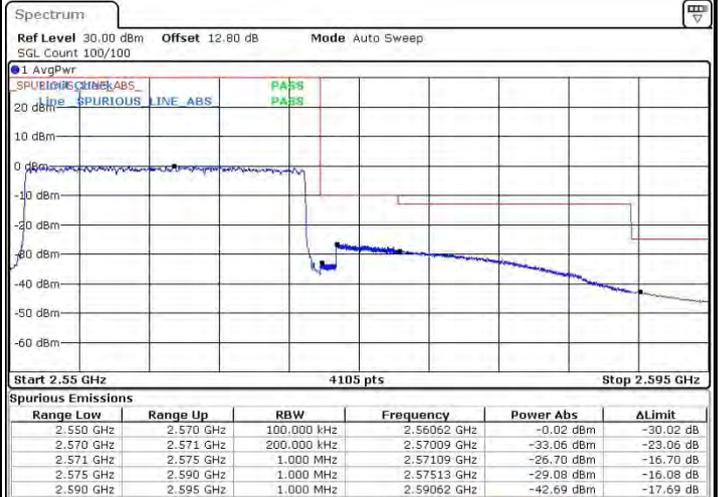
Date: 16.MAY.2015 03:17:33

Lowest Band Edge / Full RB



Date: 16.MAY.2015 03:07:25

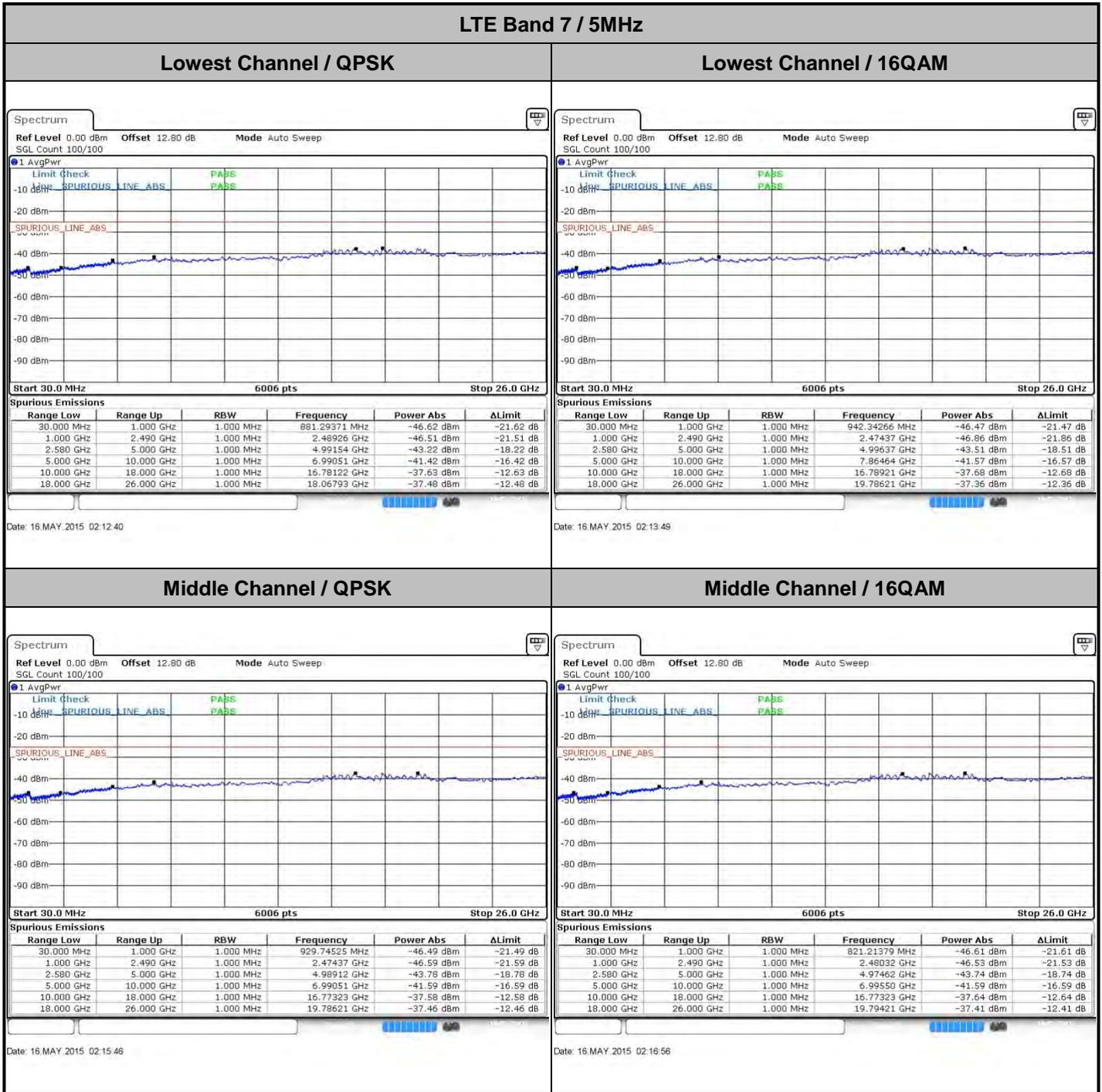
Highest Band Edge / Full RB



Date: 16.MAY.2015 03:18:43



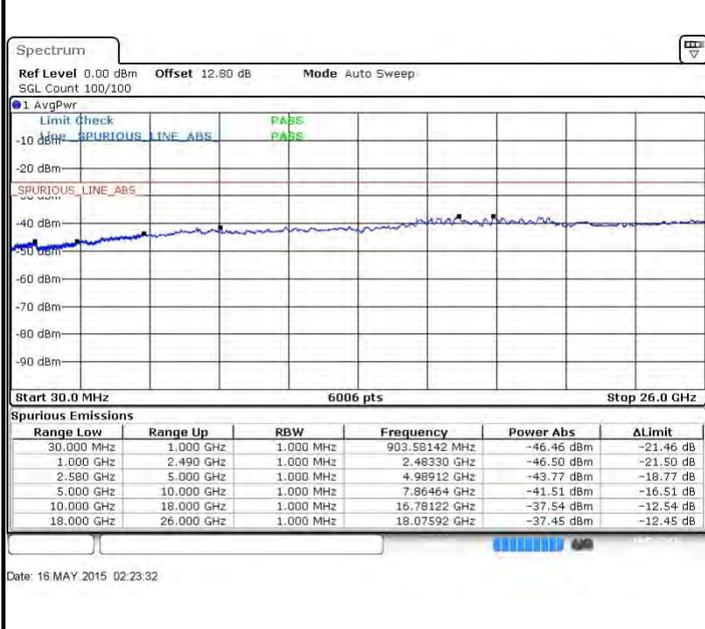
# Conducted Spurious Emission



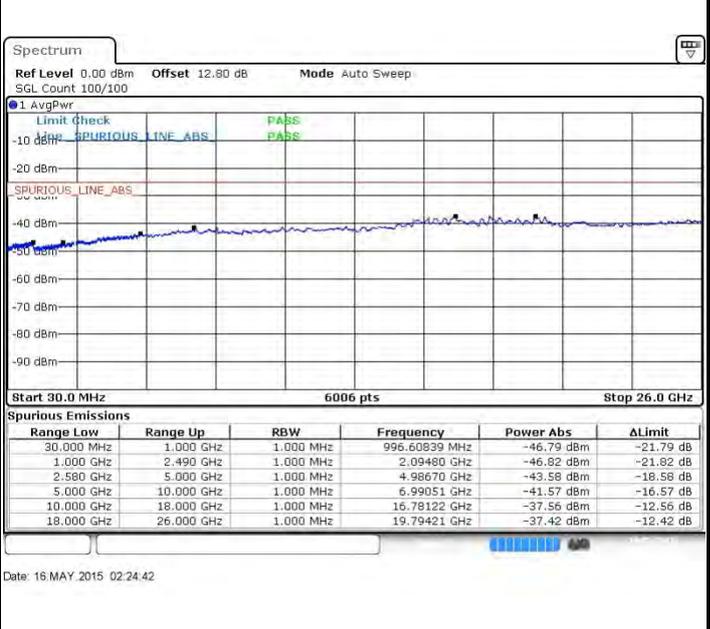


LTE Band 7 / 5MHz

Highest Channel / QPSK

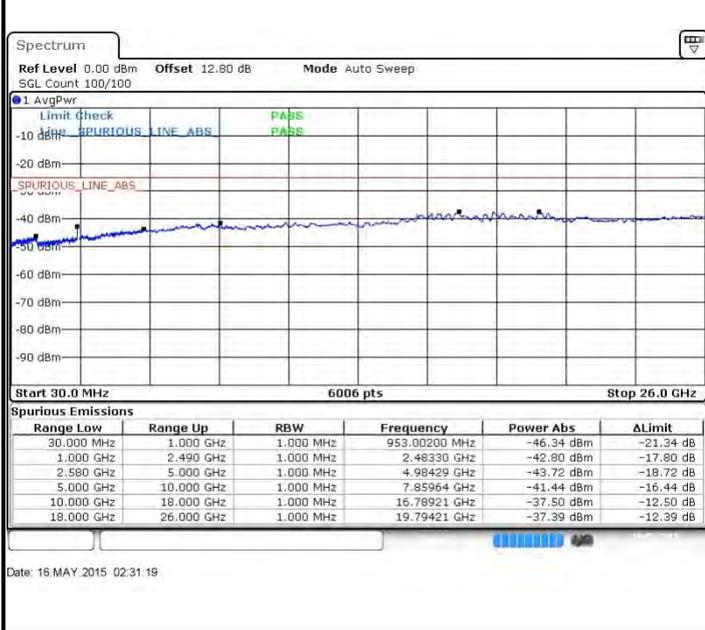


Highest Channel / 16QAM

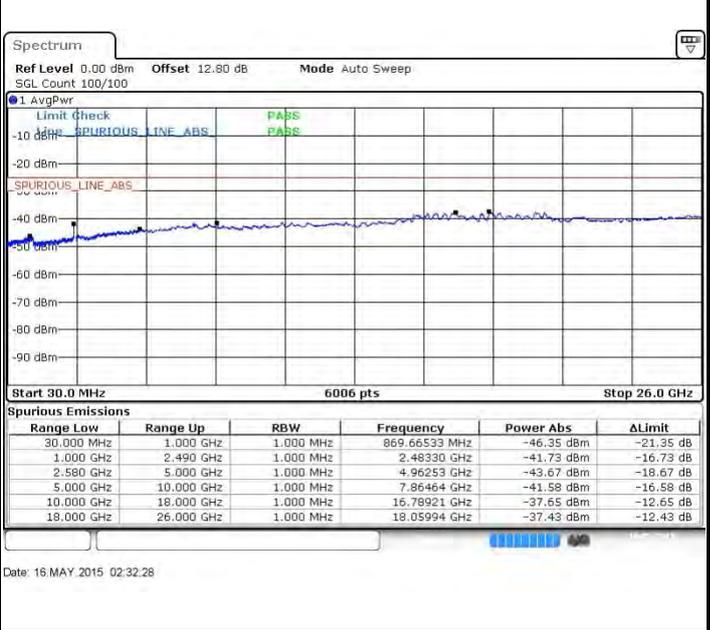


LTE Band 7 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM





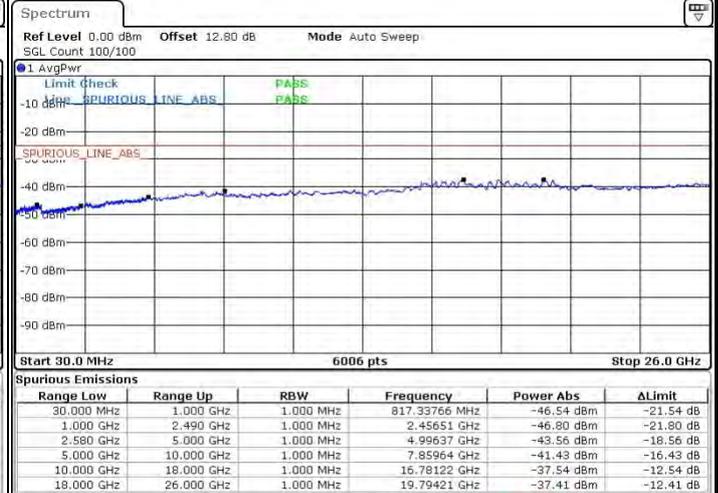
LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



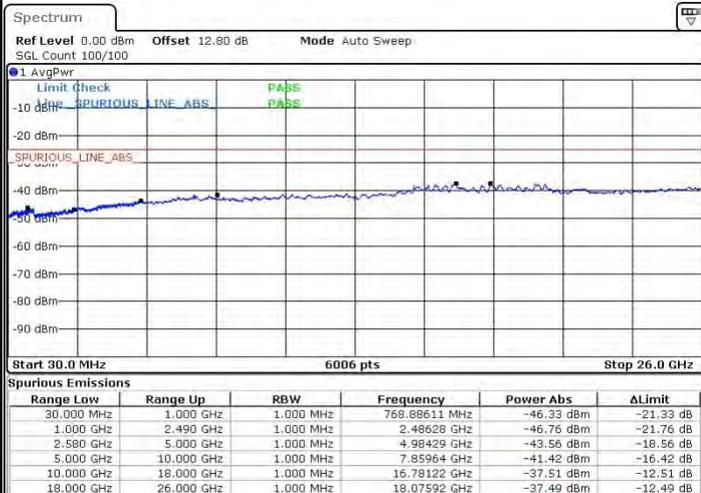
Date: 16 MAY 2015 02:34:25



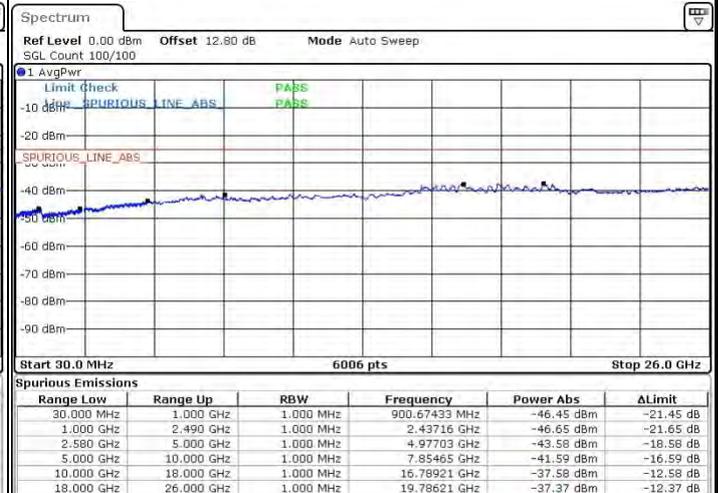
Date: 16 MAY 2015 02:35:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16 MAY 2015 02:42:11



Date: 16 MAY 2015 02:43:21



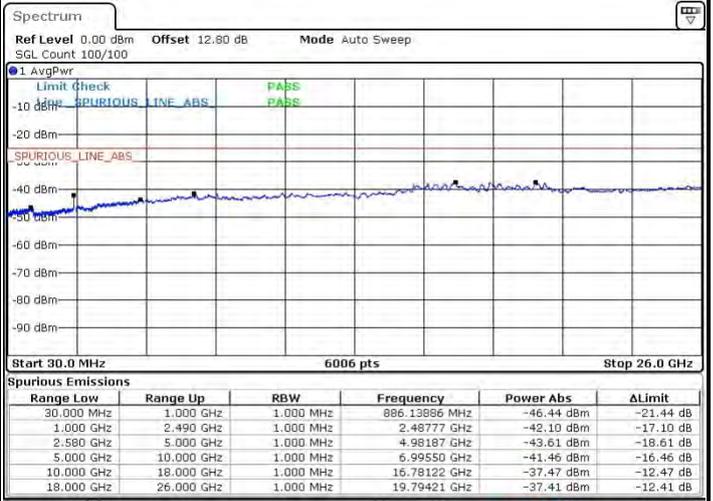
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



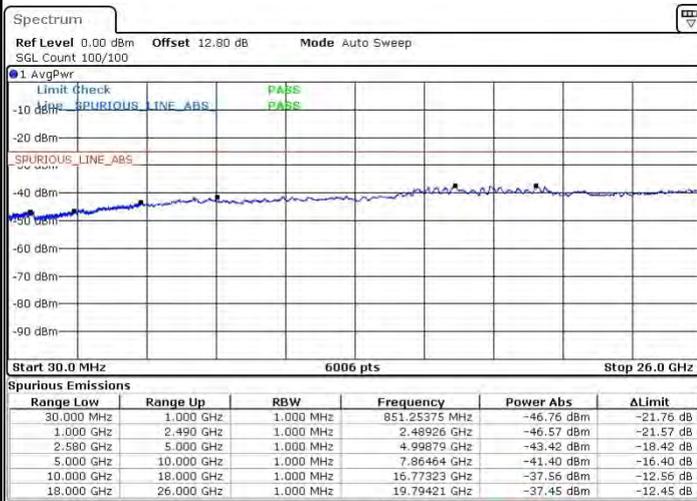
Date: 16 MAY 2015 02:49:56



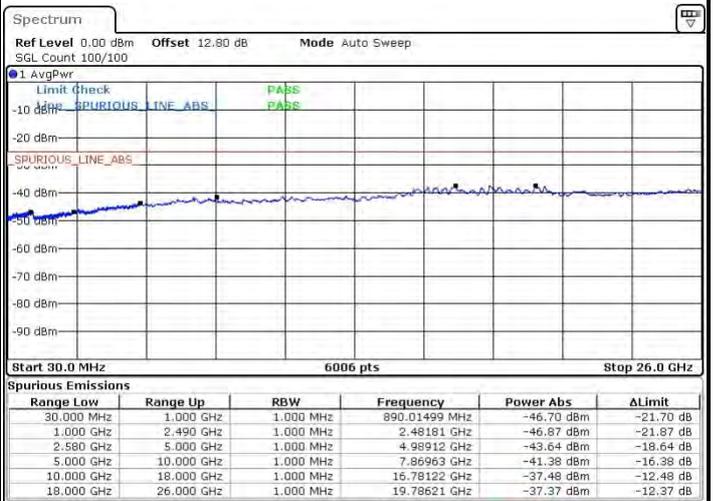
Date: 16 MAY 2015 02:51:06

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 16 MAY 2015 02:53:03



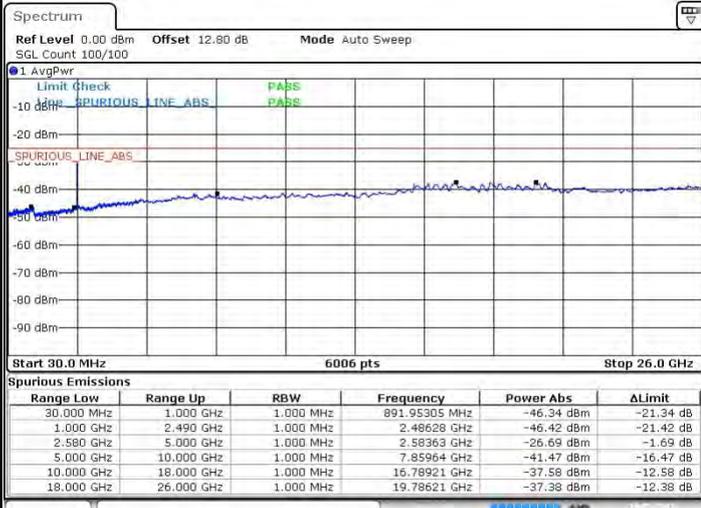
Date: 16 MAY 2015 02:54:12



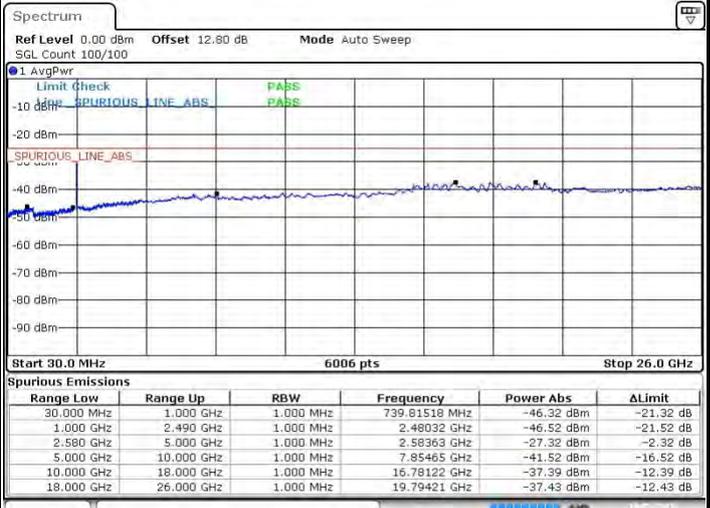
LTE Band7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16 MAY 2015 03:00:49

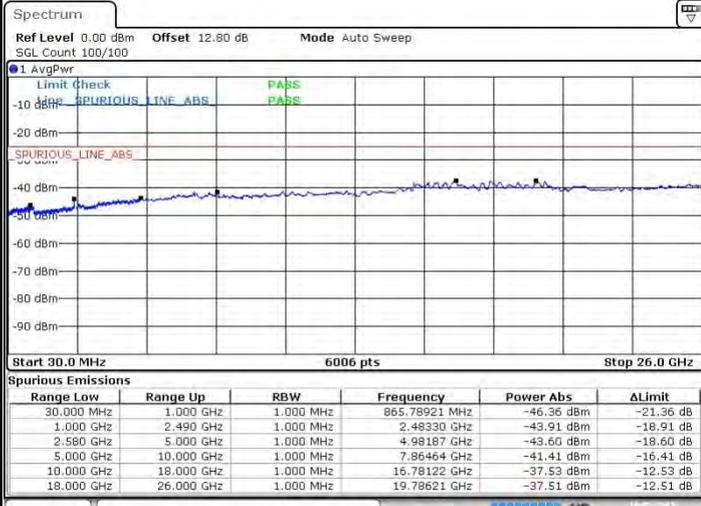


Date: 16 MAY 2015 03:01:58

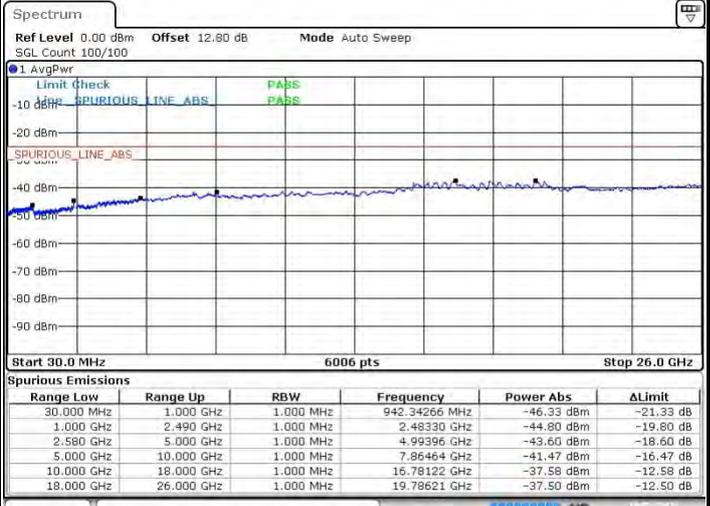
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 16 MAY 2015 03:08:34



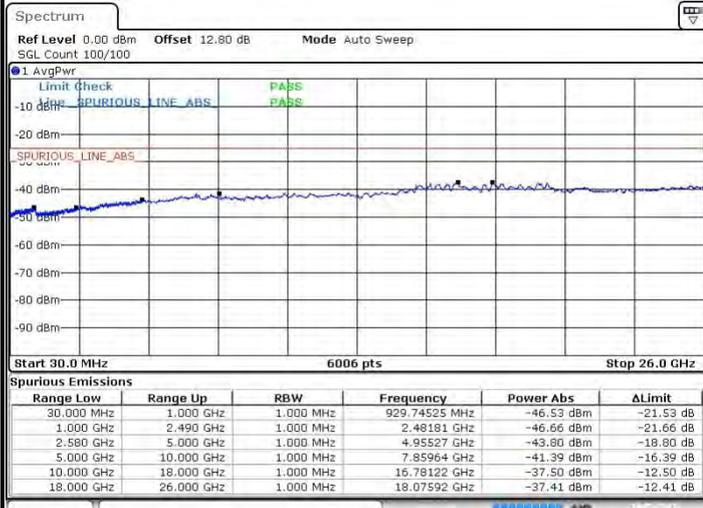
Date: 16 MAY 2015 03:09:44



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

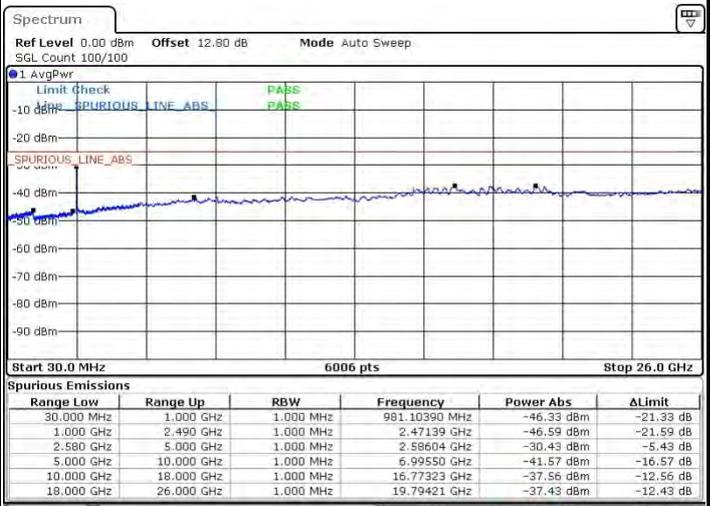
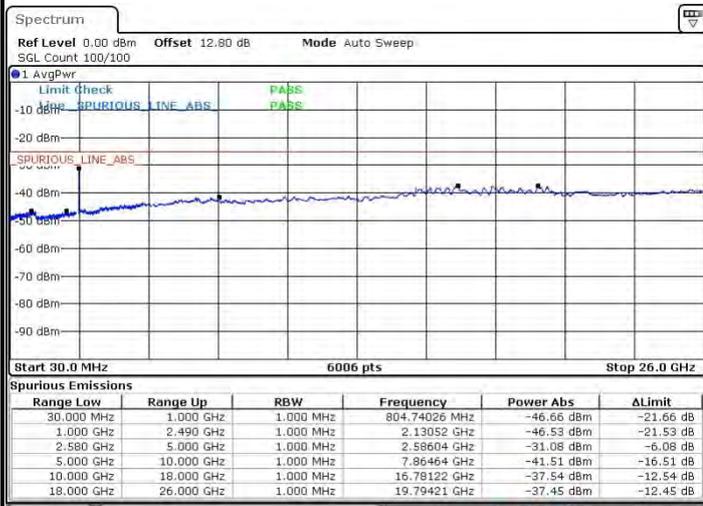


Date: 16 MAY 2015 03:13:15

Date: 16 MAY 2015 03:14:25

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16 MAY 2015 03:21:03

Date: 16 MAY 2015 03:22:12



**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0074	
-30	Normal Voltage	0.0081	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0079	

**Note:**

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Radiated Test

### ERP/EIRP

LTE Band 5 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.36	0.0545	8.65	0.0073
Middle		1	0	17.07	0.0509	8.95	0.0079
Highest		1	0	16.93	0.0493	9.18	0.0083
Lowest	16QAM	1	0	16.65	0.0462	7.93	0.0062
Middle		1	0	16.62	0.0459	8.51	0.0071
Highest		1	0	16.17	0.0414	8.49	0.0071
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.42	0.0552	8.71	0.0074
Middle		1	0	17.28	0.0535	9.03	0.0080
Highest		1	0	17.12	0.0515	9.30	0.0085
Lowest	16QAM	1	0	16.58	0.0455	7.98	0.0063
Middle		1	0	16.54	0.0451	8.39	0.0069
Highest		1	0	16.59	0.0456	8.59	0.0072
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.29	0.0536	8.69	0.0074
Middle		1	0	17.19	0.0524	8.91	0.0078
Highest		1	0	17.31	0.0538	9.33	0.0086
Lowest	16QAM	1	0	16.63	0.0460	7.98	0.0063
Middle		1	0	16.62	0.0459	8.32	0.0068
Highest		1	0	16.50	0.0447	8.74	0.0075
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.49	0.0561	8.78	0.0076
Middle		1	0	17.30	0.0537	8.86	0.0077
Highest		1	0	17.08	0.0511	8.90	0.0078
Lowest	16QAM	1	0	16.72	0.0470	8.07	0.0064
Middle		1	0	16.61	0.0458	8.28	0.0067
Highest		1	0	16.48	0.0445	8.30	0.0068
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.89	0.0975	19.75	0.0944
Middle		1	0	19.17	0.0826	19.01	0.0796
Highest		1	0	18.64	0.0731	18.94	0.0783
Lowest	16QAM	1	0	19.98	0.0995	19.79	0.0953
Middle		1	0	19.51	0.0893	19.34	0.0859
Highest		1	0	18.63	0.0729	18.44	0.0698
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.75	0.0944	19.63	0.0918
Middle		1	0	18.97	0.0789	19.14	0.0820
Highest		1	0	18.94	0.0783	19.02	0.0798
Lowest	16QAM	1	0	20.21	0.1050	20.09	0.1021
Middle		1	0	19.26	0.0843	19.50	0.0891
Highest		1	0	19.05	0.0804	19.27	0.0845
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.03	0.1007	19.74	0.0942
Middle		1	0	19.18	0.0828	18.87	0.0771
Highest		1	0	19.18	0.0828	19.21	0.0834
Lowest	16QAM	1	0	20.30	0.1072	20.18	0.1042
Middle		1	0	19.23	0.0838	19.49	0.0889
Highest		1	0	18.99	0.0793	19.72	0.0938
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.08	0.1019	19.68	0.0929
Middle		1	0	19.26	0.0843	19.11	0.0815
Highest		1	0	18.99	0.0793	19.14	0.0820
Lowest	16QAM	1	0	20.37	0.1089	19.58	0.0908
Middle		1	0	19.36	0.0863	19.60	0.0912
Highest		1	0	19.09	0.0811	18.82	0.0762
Limit	EIRP < 2W			Result		PASS	



### Radiated Spurious Emission

LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-54.67	-13	-41.67	-64.4	-56.43	0.98	4.89	H
	2472	-55.67	-13	-42.67	-68.75	-57.55	1.28	5.32	H
	3296	-59.59	-13	-46.59	-76.09	-63	1.54	7.10	H
	1648	-53.49	-13	-40.49	-61.16	-55.25	0.98	4.89	V
	2472	-54.90	-13	-41.90	-70.2	-56.78	1.28	5.32	V
	3296	-59.99	-13	-46.99	-75.41	-63.4	1.54	7.10	V
Middle	1672	-51.37	-13	-38.37	-60.72	-53.05	0.99	4.82	H
	2512	-54.43	-13	-41.43	-67.7	-56.4	1.29	5.41	H
	3344	-59.51	-13	-46.51	-75.72	-63.12	1.56	7.31	H
	1672	-52.84	-13	-39.84	-60.05	-54.52	0.99	4.82	V
	2512	-51.93	-13	-38.93	-67.27	-53.9	1.29	5.41	V
	3344	-60.45	-13	-47.45	-75.69	-64.06	1.56	7.31	V
Highest	1696	-54.74	-13	-41.74	-64.21	-56.34	1.00	4.75	H
	2544	-48.35	-13	-35.35	-62.06	-50.33	1.30	5.44	H
	3392	-59.90	-13	-46.90	-76.33	-63.7	1.57	7.52	H
	1696	-51.81	-13	-38.81	-59.57	-53.41	1.00	4.75	V
	2544	-51.08	-13	-38.08	-66.47	-53.06	1.30	5.44	V
	3392	-60.01	-13	-47.01	-75.88	-63.81	1.57	7.52	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-52.80	-13	-39.80	-62.53	-54.56	0.98	4.89	H
	2472	-51.00	-13	-38.00	-64.11	-52.88	1.28	5.32	H
	3296	-59.31	-13	-46.31	-75.65	-62.72	1.54	7.10	H
	1648	-52.48	-13	-39.48	-60.07	-54.24	0.98	4.89	V
	2472	-54.78	-13	-41.78	-70.09	-56.66	1.28	5.32	V
	3296	-60.36	-13	-47.36	-75.73	-63.77	1.54	7.10	V
Middle	1672	-51.34	-13	-38.34	-60.69	-53.02	0.99	4.82	H
	2504	-54.47	-13	-41.47	-67.51	-56.43	1.29	5.40	H
	3344	-59.28	-13	-46.28	-75.5	-62.89	1.56	7.31	H
	1672	-51.82	-13	-38.82	-59.07	-53.5	0.99	4.82	V
	2504	-52.61	-13	-39.61	-67.93	-54.57	1.29	5.40	V
	3344	-60.15	-13	-47.15	-75.39	-63.76	1.56	7.31	V
Highest	1696	-53.74	-13	-40.74	-63.19	-55.34	1.00	4.75	H
	2536	-51.05	-13	-38.05	-64.57	-53.03	1.30	5.43	H
	3392	-59.27	-13	-46.27	-75.69	-63.07	1.57	7.52	H
	1696	-52.02	-13	-39.02	-59.78	-53.62	1.00	4.75	V
	2536	-48.33	-13	-35.33	-63.69	-50.31	1.30	5.43	V
	3392	-60.29	-13	-47.29	-76.14	-64.09	1.57	7.52	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-56.29	-13	-43.29	-66.03	-58.05	0.98	4.89	H
	2472	-43.74	-13	-30.74	-55.98	-45.62	1.28	5.32	H
	3296	-59.59	-13	-46.59	-76.15	-63	1.54	7.10	H
	1648	-56.35	-13	-43.35	-64.1	-58.11	0.98	4.89	V
	2472	-45.48	-13	-32.48	-60.95	-47.36	1.28	5.32	V
	3296	-60.34	-13	-47.34	-76.24	-63.75	1.54	7.10	V
Middle	1672	-55.45	-13	-42.45	-64.88	-57.13	0.99	4.82	H
	2504	-43.25	-13	-30.25	-56.11	-45.21	1.29	5.40	H
	3344	-59.80	-13	-46.80	-75.89	-63.41	1.56	7.31	H
	1672	-54.79	-13	-41.79	-62.19	-56.47	0.99	4.82	V
	2504	-41.02	-13	-28.02	-56.52	-42.98	1.29	5.40	V
	3344	-60.28	-13	-47.28	-75.94	-63.89	1.56	7.31	V
Highest	1688	-56.43	-13	-43.43	-66.03	-58.06	1.00	4.77	H
	2536	-39.40	-13	-26.40	-53.02	-41.38	1.30	5.43	H
	3376	-59.75	-13	-46.75	-76.16	-63.49	1.57	7.45	H
	1688	-54.37	-13	-41.37	-61.25	-56	1.00	4.77	V
	2536	-42.38	-13	-29.38	-58.03	-44.36	1.30	5.43	V
	3376	-60.53	-13	-47.53	-76.13	-64.27	1.57	7.45	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-55.56	-13	-42.56	-65	-57.32	0.98	4.89	H
	2472	-48.43	-13	-35.43	-62.02	-50.31	1.28	5.32	H
	3296	-59.17	-13	-46.17	-76.03	-62.58	1.54	7.10	H
	1648	-55.46	-13	-42.46	-63.3	-57.22	0.98	4.89	V
	2472	-52.35	-13	-39.35	-67.73	-54.23	1.28	5.32	V
	3296	-60.09	-13	-47.09	-76.1	-63.5	1.54	7.10	V
Middle	1664	-53.43	-13	-40.43	-63.03	-55.14	0.98	4.84	H
	2496	-46.26	-13	-33.26	-59.21	-48.21	1.29	5.39	H
	3328	-59.47	-13	-46.47	-75.7	-63.01	1.55	7.24	H
	1664	-51.29	-13	-38.29	-58.56	-53	0.98	4.84	V
	2496	-47.57	-13	-34.57	-63.27	-49.52	1.29	5.39	V
	3328	-60.72	-13	-47.72	-75.72	-64.26	1.55	7.24	V
Highest	1680	-55.63	-13	-42.63	-64.76	-57.28	0.99	4.80	H
	2520	-46.09	-13	-33.09	-59.34	-48.06	1.30	5.42	H
	3360	-59.47	-13	-46.47	-75.99	-63.14	1.56	7.38	H
	1680	-57.23	-13	-44.23	-64.33	-58.88	0.99	4.80	V
	2520	-45.26	-13	-32.26	-60.71	-47.23	1.30	5.42	V
	3360	-60.22	-13	-47.22	-75.92	-63.89	1.56	7.38	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5000	-42.91	-25	-17.91	-65.84	-50.27	2.34	9.70	H
	7500	-39.73	-25	-14.73	-68.29	-49.1	2.43	11.80	H
	10000	-40.72	-25	-15.72	-72.21	-50.22	2.70	12.20	H
	12500	-36.92	-25	-11.92	-72.99	-46.52	2.80	12.40	H
	5000	-48.39	-25	-23.39	-69.89	-55.75	2.34	9.70	V
	7500	-44.89	-25	-19.89	-73.15	-54.26	2.43	11.80	V
	10000	-39.31	-25	-14.31	-68.99	-48.81	2.70	12.20	V
	12500	-37.63	-25	-12.63	-72.92	-47.23	2.80	12.40	V
Middle	5064	-43.35	-25	-18.35	-66.58	-50.68	2.37	9.70	H
	7596	-39.50	-25	-14.50	-67.88	-48.96	2.40	11.86	H
	10128	-39.10	-25	-14.10	-71.26	-48.66	2.70	12.25	H
	12660	-36.50	-25	-11.50	-73.04	-46.25	2.84	12.59	H
	5064	-48.25	-25	-23.25	-70.16	-55.58	2.37	9.70	V
	7596	-44.76	-25	-19.76	-72.2	-54.22	2.40	11.86	V
	10128	-38.61	-25	-13.61	-68.43	-48.17	2.70	12.25	V
	12660	-37.46	-25	-12.46	-73.61	-47.21	2.84	12.59	V
Highest	5136	-44.74	-25	-19.74	-67.54	-52.02	2.42	9.70	H
	7692	-35.62	-25	-10.62	-64.12	-45.17	2.37	11.92	H
	10260	-39.35	-25	-14.35	-70.64	-48.96	2.69	12.30	H
	12828	-36.17	-25	-11.17	-74.15	-46.08	2.89	12.79	H
	5136	-48.44	-25	-23.44	-70.82	-55.72	2.42	9.70	V
	7692	-41.69	-25	-16.69	-69.72	-51.24	2.37	11.92	V
	10260	-39.39	-25	-14.39	-70.14	-49	2.69	12.30	V
	12828	-37.64	-25	-12.64	-73.11	-47.55	2.89	12.79	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-44.26	-25	-19.26	-67.02	-51.62	2.34	9.70	H
	7500	-39.59	-25	-14.59	-68.76	-48.96	2.43	11.80	H
	10008	-39.08	-25	-14.08	-70.78	-48.59	2.70	12.20	H
	12504	-36.68	-25	-11.68	-72.47	-46.28	2.81	12.40	H
	5004	-47.90	-25	-22.90	-69.33	-55.26	2.34	9.70	V
	7500	-43.90	-25	-18.90	-72.03	-53.27	2.43	11.80	V
	10008	-37.74	-25	-12.74	-67.9	-47.25	2.70	12.20	V
	12504	-38.42	-25	-13.42	-73.71	-48.02	2.81	12.40	V
Middle	5064	-43.67	-25	-18.67	-66.33	-51	2.37	9.70	H
	7596	-38.66	-25	-13.66	-67.1	-48.12	2.40	11.86	H
	10128	-41.23	-25	-16.23	-72.8	-50.79	2.70	12.25	H
	12648	-36.43	-25	-11.43	-73.69	-46.17	2.84	12.58	H
	5064	-47.68	-25	-22.68	-69.24	-55.01	2.37	9.70	V
	7596	-43.18	-25	-18.18	-71.03	-52.64	2.40	11.86	V
	10128	-38.29	-25	-13.29	-68.42	-47.85	2.70	12.25	V
	12648	-38.09	-25	-13.09	-73.71	-47.83	2.84	12.58	V
Highest	5124	-42.09	-25	-17.09	-64.96	-49.38	2.41	9.70	H
	7680	-34.64	-25	-9.64	-62.96	-44.18	2.37	11.91	H
	10248	-38.83	-25	-13.83	-70.58	-48.43	2.69	12.30	H
	12804	-35.40	-25	-10.40	-73.1	-45.28	2.88	12.76	H
	5124	-45.88	-25	-20.88	-67.78	-53.17	2.41	9.70	V
	7680	-41.73	-25	-16.73	-69.5	-51.27	2.37	11.91	V
	10248	-40.52	-25	-15.52	-71.11	-50.12	2.69	12.30	V
	12804	-36.47	-25	-11.47	-72.47	-46.35	2.88	12.76	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-45.81	-25	-20.81	-68.74	-53.17	2.34	9.70	H
	7500	-39.10	-25	-14.10	-67.86	-48.47	2.43	11.80	H
	10008	-39.17	-25	-14.17	-71.18	-48.68	2.70	12.20	H
	12504	-36.68	-25	-11.68	-72.52	-46.28	2.81	12.40	H
	5004	-48.49	-25	-23.49	-70.05	-55.85	2.34	9.70	V
	7500	-44.32	-25	-19.32	-72.45	-53.69	2.43	11.80	V
	10008	-37.65	-25	-12.65	-67.68	-47.16	2.70	12.20	V
	12504	-37.18	-25	-12.18	-72.77	-46.78	2.81	12.40	V
Middle	5052	-41.88	-25	-16.88	-64.32	-49.21	2.37	9.70	H
	7584	-38.55	-25	-13.55	-67.08	-48	2.40	11.85	H
	10116	-40.79	-25	-15.79	-72.58	-50.34	2.70	12.25	H
	12648	-36.77	-25	-11.77	-73.32	-46.51	2.84	12.58	H
	5052	-47.75	-25	-22.75	-69.05	-55.08	2.37	9.70	V
	7584	-44.73	-25	-19.73	-72.84	-54.18	2.40	11.85	V
	10116	-38.55	-25	-13.55	-68.99	-48.1	2.70	12.25	V
	12648	-37.80	-25	-12.80	-73.03	-47.54	2.84	12.58	V
Highest	5112	-42.87	-25	-17.87	-65.76	-50.17	2.40	9.70	H
	7668	-36.50	-25	-11.50	-64.56	-46.03	2.38	11.90	H
	10224	-42.82	-25	-17.82	-74.38	-52.41	2.69	12.29	H
	12780	-35.42	-25	-10.42	-73.04	-45.28	2.87	12.74	H
	5112	-45.84	-25	-20.84	-67.61	-53.14	2.40	9.70	V
	7668	-41.91	-25	-16.91	-69.75	-51.44	2.38	11.90	V
	10224	-42.59	-25	-17.59	-72.65	-52.18	2.69	12.29	V
	12780	-36.78	-25	-11.78	-72.63	-46.64	2.87	12.74	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-43.72	-25	-18.72	-66.73	-51.08	2.34	9.70	H
	7504	-39.91	-25	-14.91	-68.82	-49.28	2.43	11.80	H
	10012	-41.70	-25	-16.70	-73.2	-51.21	2.70	12.20	H
	12508	-35.57	-25	-10.57	-71.89	-45.17	2.81	12.41	H
	5004	-48.41	-25	-23.41	-69.65	-55.77	2.34	9.70	V
	7504	-44.65	-25	-19.65	-73.14	-54.02	2.43	11.80	V
	10012	-39.21	-25	-14.21	-69.23	-48.72	2.70	12.20	V
	12508	-37.59	-25	-12.59	-72.75	-47.19	2.81	12.41	V
Middle	5052	-40.70	-25	-15.70	-63.79	-48.03	2.37	9.70	H
	7584	-38.67	-25	-13.67	-67.33	-48.12	2.40	11.85	H
	10104	-41.45	-25	-16.45	-73	-51	2.70	12.24	H
	12636	-36.56	-25	-11.56	-73.3	-46.28	2.84	12.56	H
	5052	-47.67	-25	-22.67	-69.3	-55	2.37	9.70	V
	7584	-44.43	-25	-19.43	-72.89	-53.88	2.40	11.85	V
	10104	-39.14	-25	-14.14	-69.4	-48.69	2.70	12.24	V
	12636	-37.43	-25	-12.43	-72.97	-47.15	2.84	12.56	V
Highest	5100	-45.27	-25	-20.27	-67.84	-52.58	2.39	9.70	H
	7656	-36.31	-25	-11.31	-64.64	-45.82	2.38	11.89	H
	10200	-42.34	-25	-17.34	-73.78	-51.92	2.70	12.28	H
	12756	-36.12	-25	-11.12	-73.68	-45.96	2.87	12.71	H
	5100	-46.48	-25	-21.48	-68.44	-53.79	2.39	9.70	V
	7656	-39.25	-25	-14.25	-66.99	-48.76	2.38	11.89	V
	10200	-42.76	-25	-17.76	-72.71	-52.34	2.70	12.28	V
	12756	-37.44	-25	-12.44	-73.59	-47.28	2.87	12.71	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.