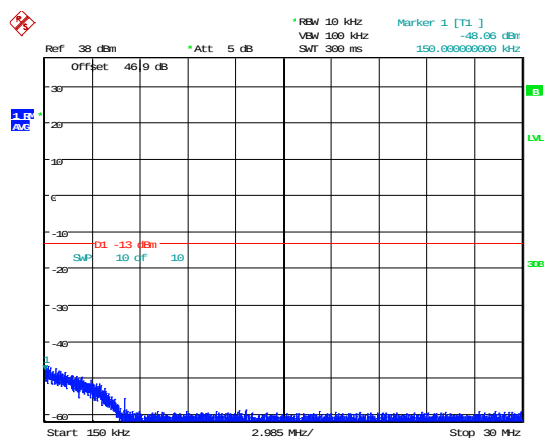
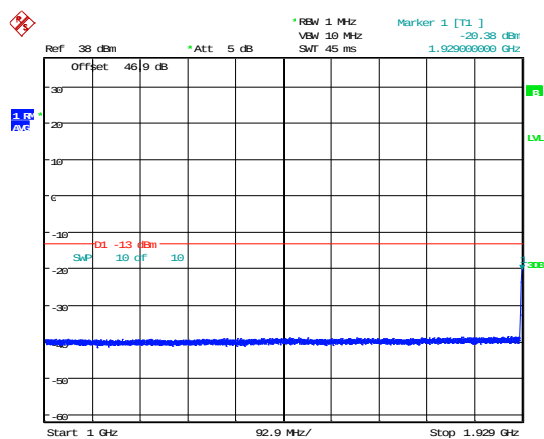


1930-1995MHz Mid AWGN 150 kHz-30MHz



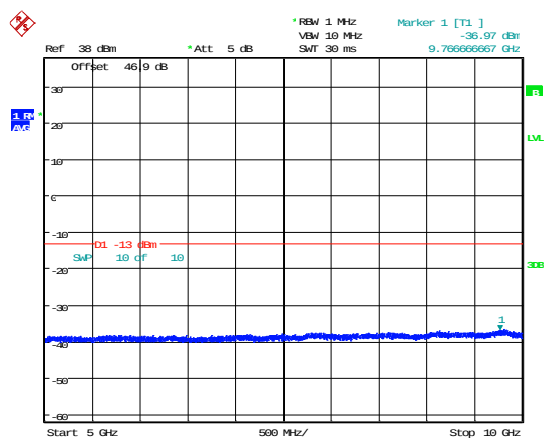
Date: 18.AUG.2015 12:36:29

1930-1995MHz Mid AWGN 1-1.929GHz



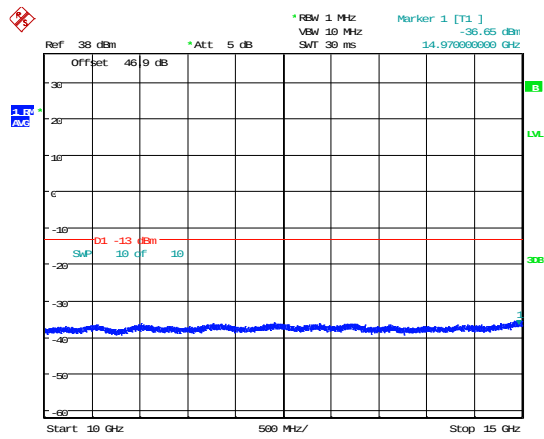
Date: 18.AUG.2015 12:42:33

1930-1995MHz Mid AWGN 5-10GHz



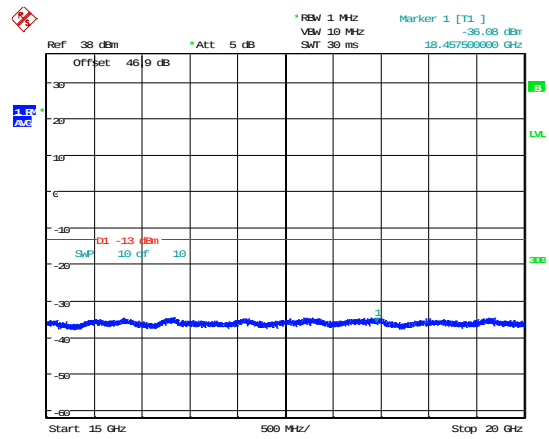
Date: 18.AUG.2015 12:43:57

1930-1995MHz Mid AWGN 15-20GHz



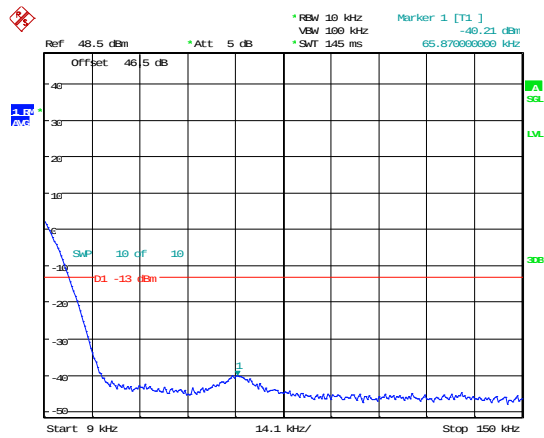
Date: 18.AUG.2015 12:44:18

1930-1995MHz Mid MSK 9-150 kHz



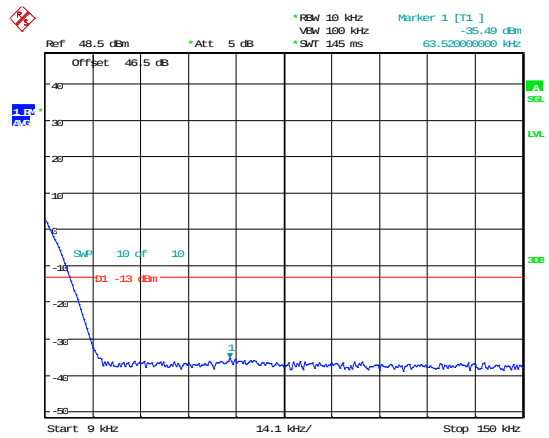
Date: 18.AUG.2015 12:44:41

1930-1995MHz Mid AWGN 9-150 kHz



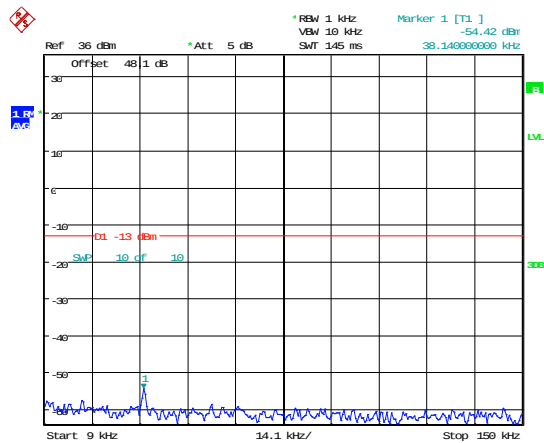
Date: 24.MAR.2016 11:02:29

1930-1995MHz Top MSK 9-150 kHz



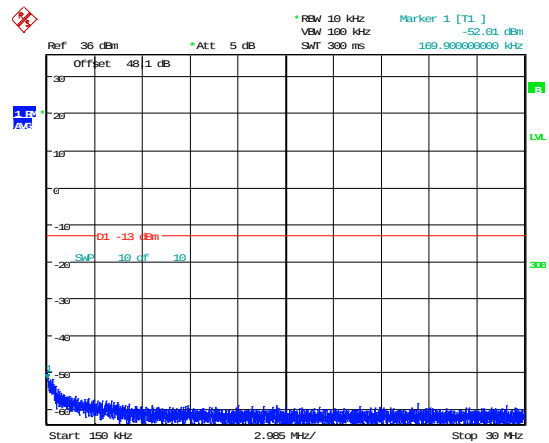
Date: 24.MAR.2016 11:04:24

1930-1995MHz Top MSK 150 kHz-30MHz



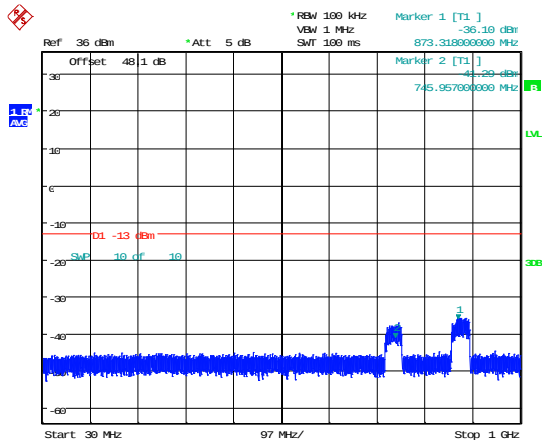
Date: 19.AUG.2015 12:19:34

1930-1995MHz Top MSK 30-1MHz



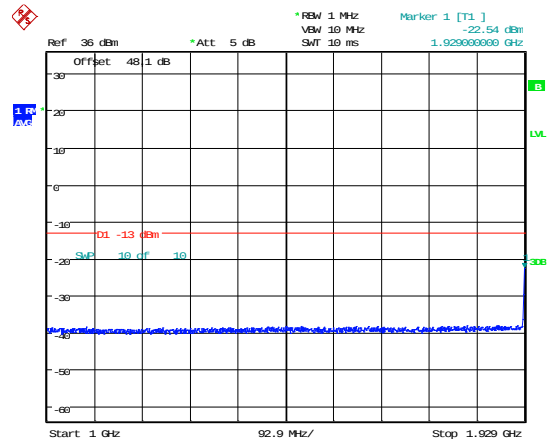
Date: 19.AUG.2015 12:20:12

1930-1995MHz Top MSK 1-1.929GHz



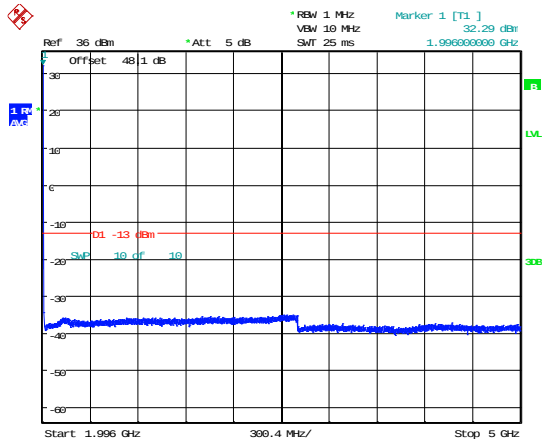
Date: 19.AUG.2015 12:20:55

1930-1995MHz Top MSK 1.996-5GHz



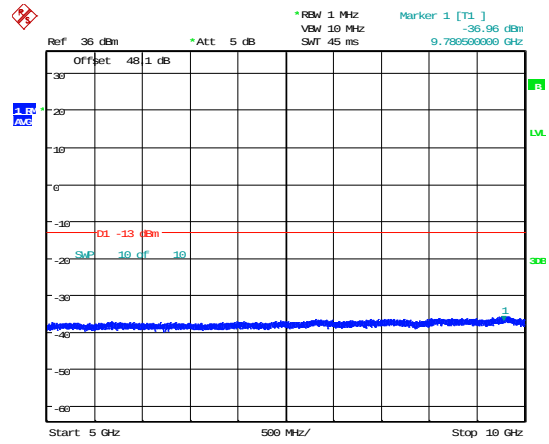
Date: 19.AUG.2015 12:21:48

1930-1995MHz Top MSK 5-10GHz



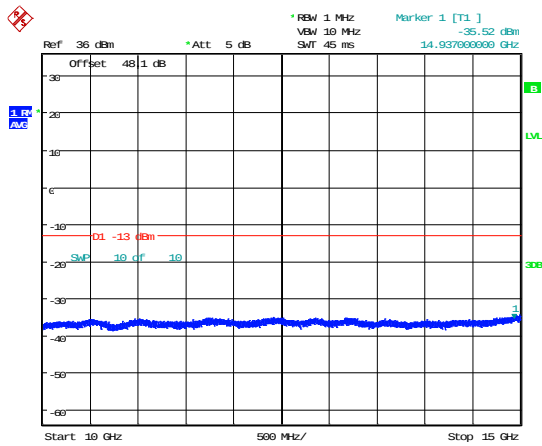
Date: 19.AUG.2015 12:22:28

1930-1995MHz Top MSK 10-15GHz

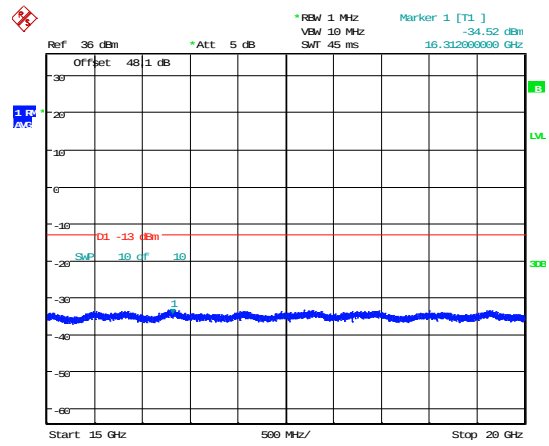


Date: 19.AUG.2015 12:22:57

1930-1995MHz Top MSK 15-20GHz

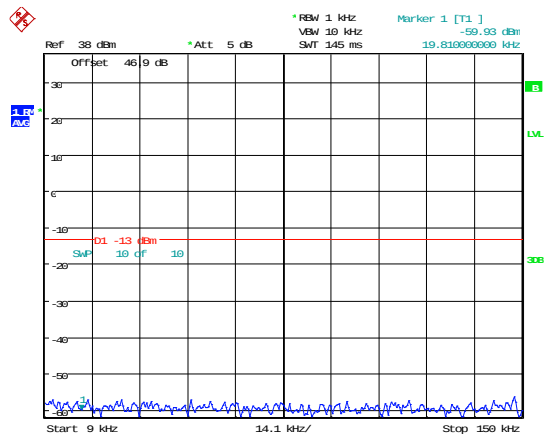


Date: 19.AUG.2015 12:23:33



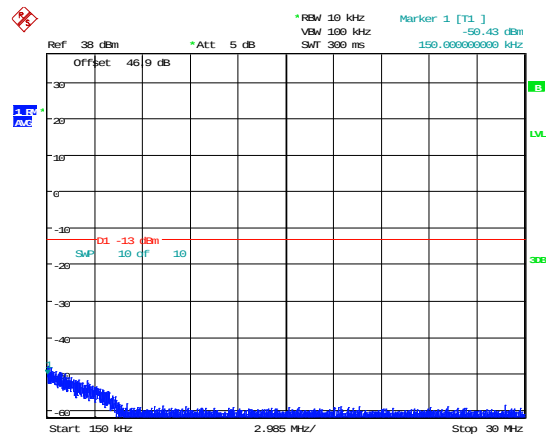
Date: 19.AUG.2015 12:23:55

1930-1995MHz Top AWGN 9-150 kHz



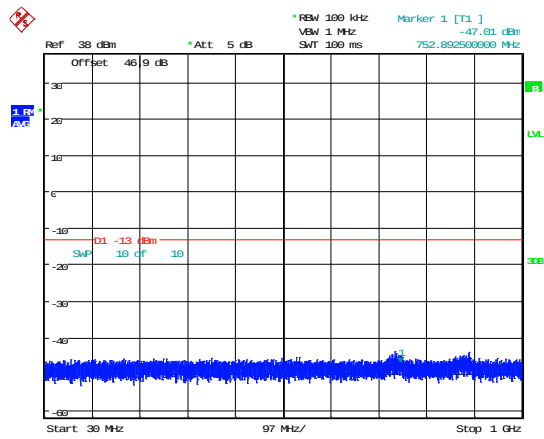
Date: 18.AUG.2015 12:52:03

1930-1995MHz Top AWGN 150 kHz-30MHz



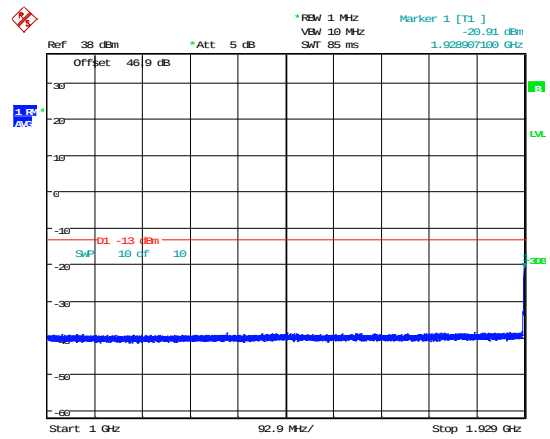
Date: 18.AUG.2015 12:51:24

1930-1995MHz Top AWGN 30-1MHz



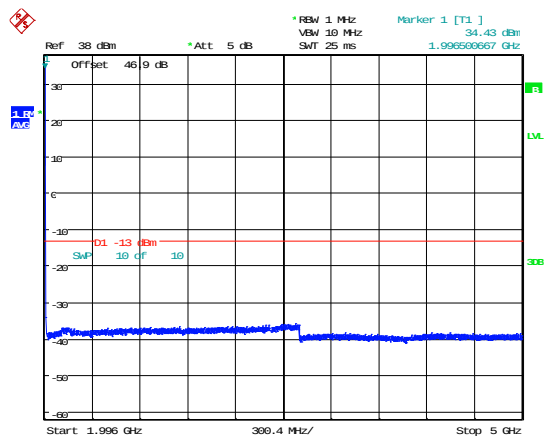
Date: 18.AUG.2015 12:52:55

1930-1995MHz Top AWGN 1-1.929GHz



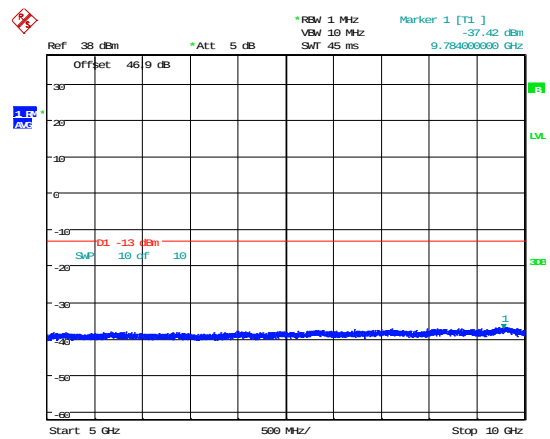
Date: 18.AUG.2015 12:53:29

1930-1995MHz Top AWGN 1.996-5GHz



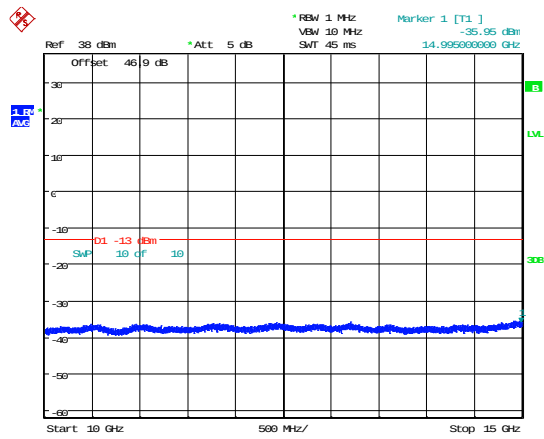
Date: 18.AUG.2015 12:54:09

1930-1995MHz Top AWGN 5-10GHz



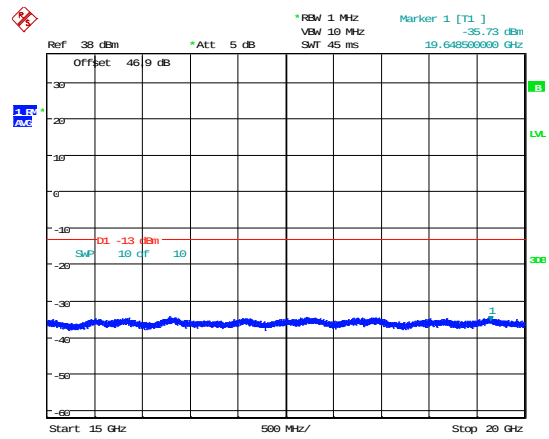
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1930-1995MHz Top AWGN 10-15GHz



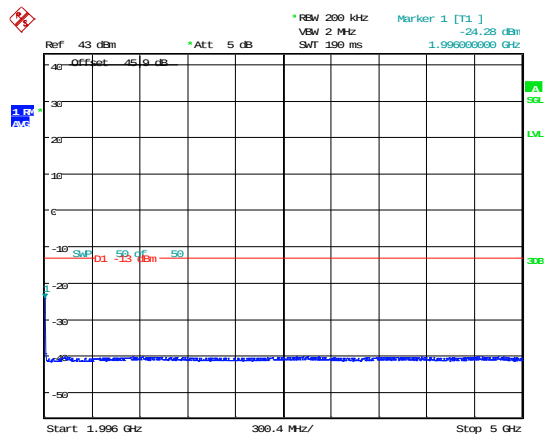
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1930-1995MHz Top AWGN 15-20GHz



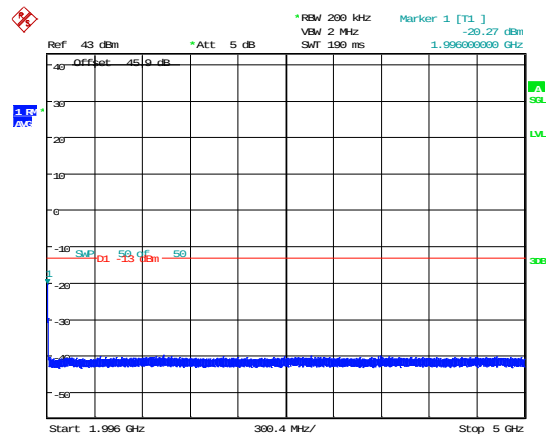
Date: 18.AUG.2015 12:55:27

1930-1995MHz Top MSK 1.996-5GHz#



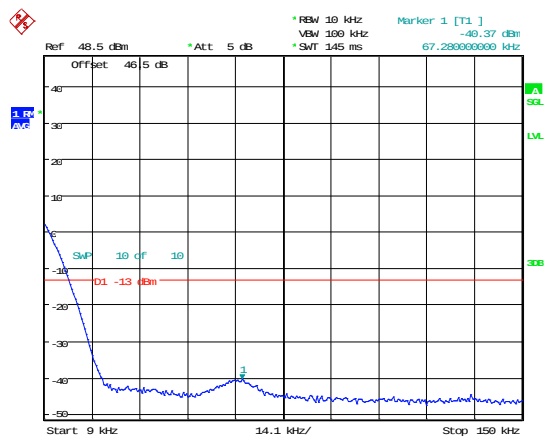
Date: 7.JAN.2016 09:37:29

1930-1995MHz Top AWGN1.996-5GHz#



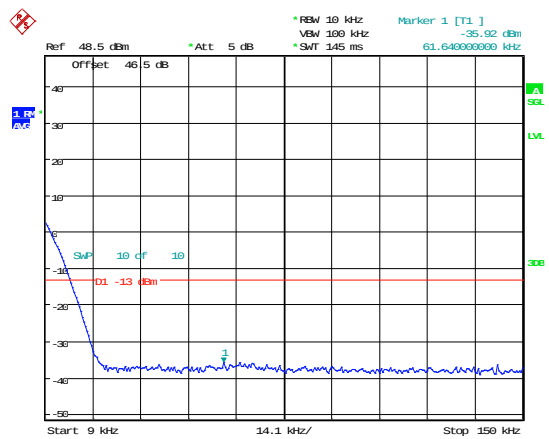
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1930-1995MHz Top MSK 9-150 kHz



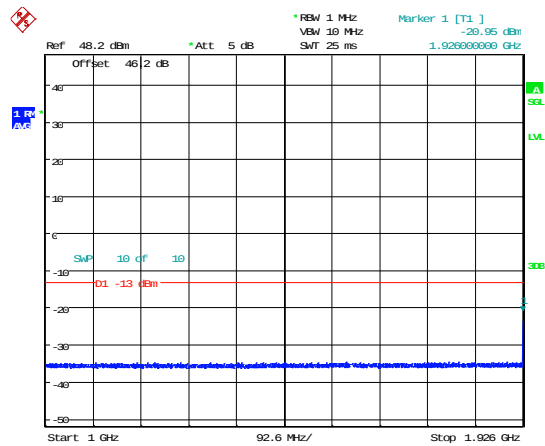
Date: 24.MAR.2016 11:03:00

1930-1995MHz Top MSK 9-150 kHz



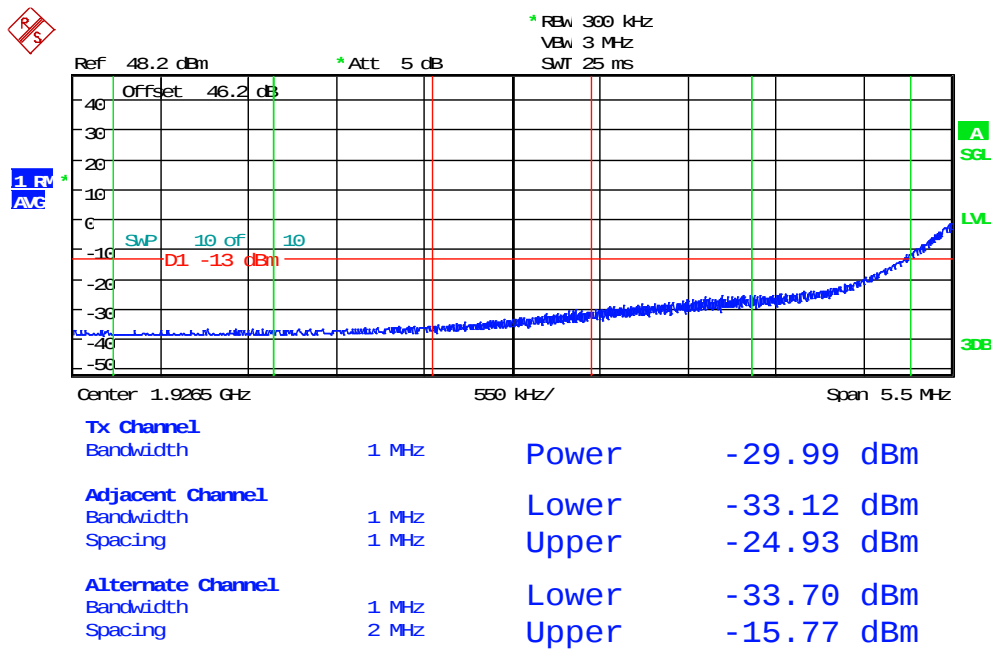
Date: 24.MAR.2016 11:04:50

1930-1995MHz bottom MSK 1-1.926GHz

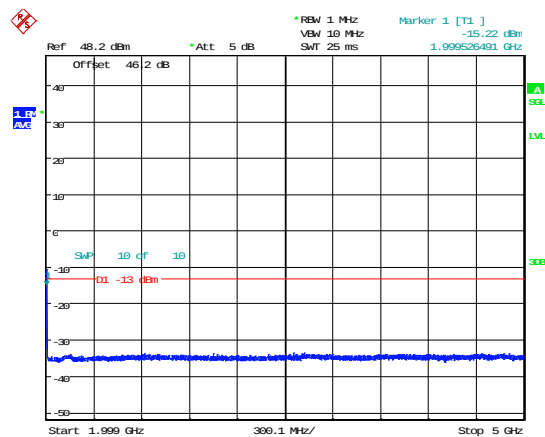


Date: 15.APR.2016 09:43:54

1930-1995MHz bottom MSK 1-1.926GHz ACP

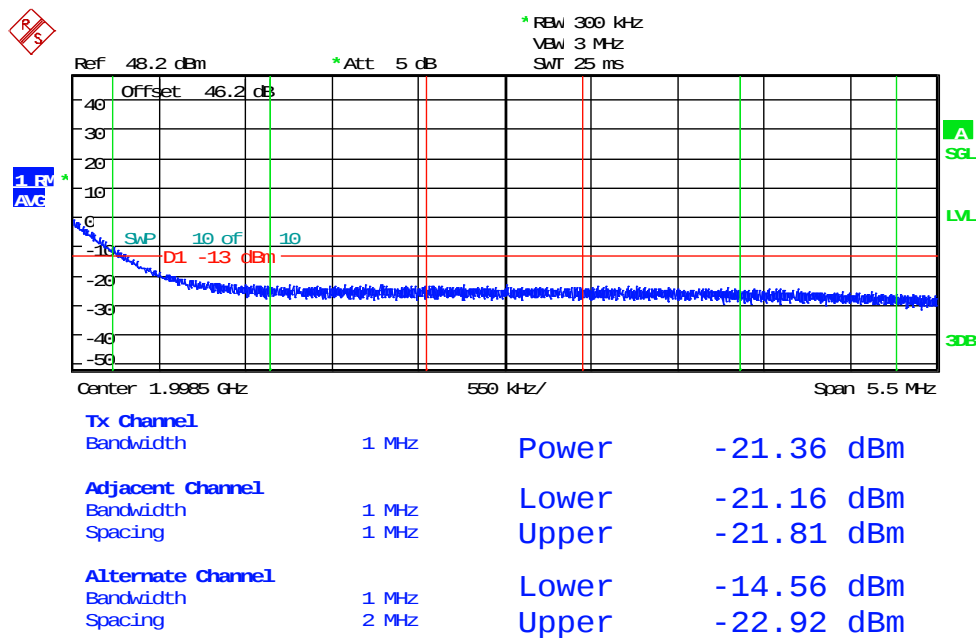


1930-1995MHz TOP MSK 1.999-5GHz

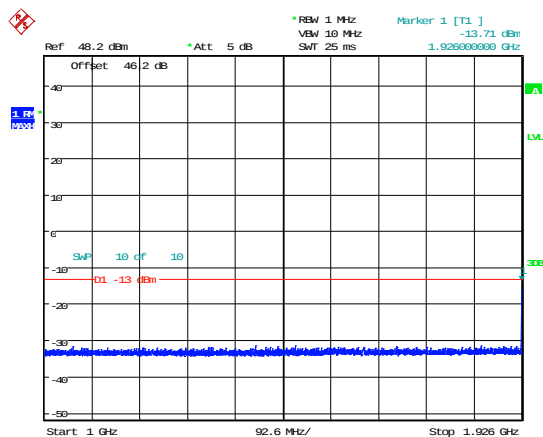


Date: 15.APR.2016 09:53:22

1930-1995MHz TOP MSK 1.999-5GHz ACP

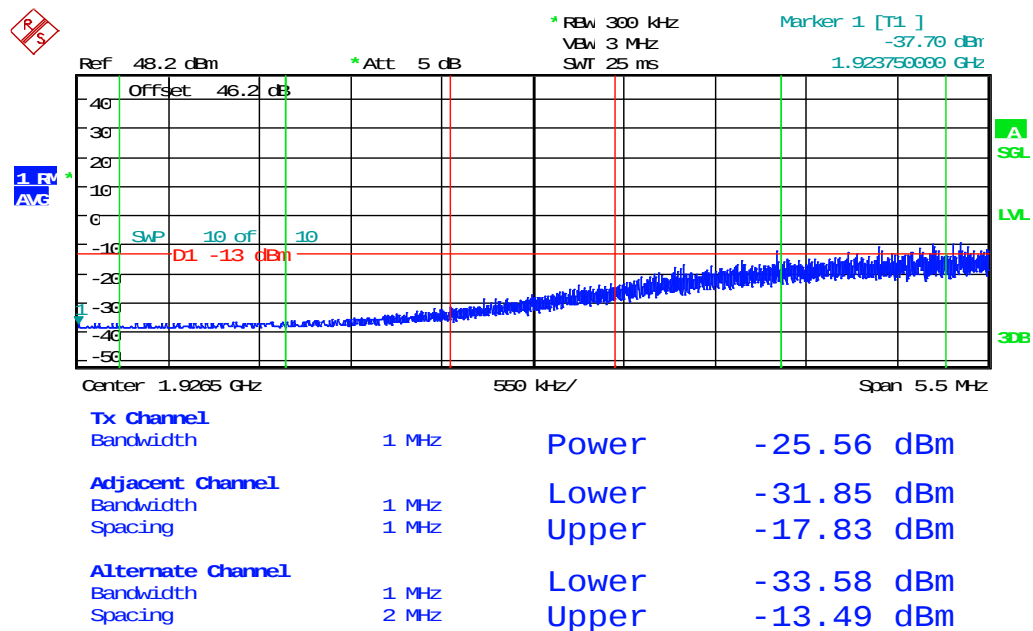


1930-1995MHz bottom AWGN 1-1.926GHz

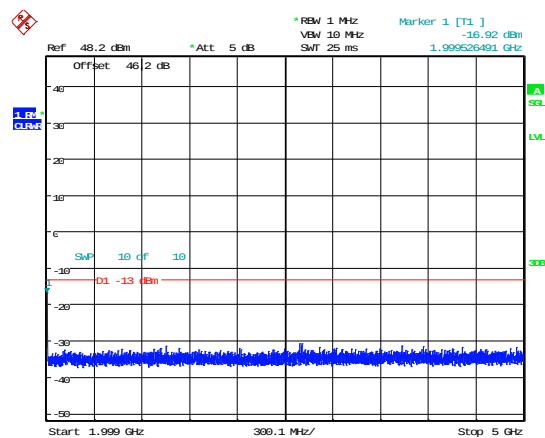


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1930-1995MHz bottom AWGN 1-1.926GHz ACP

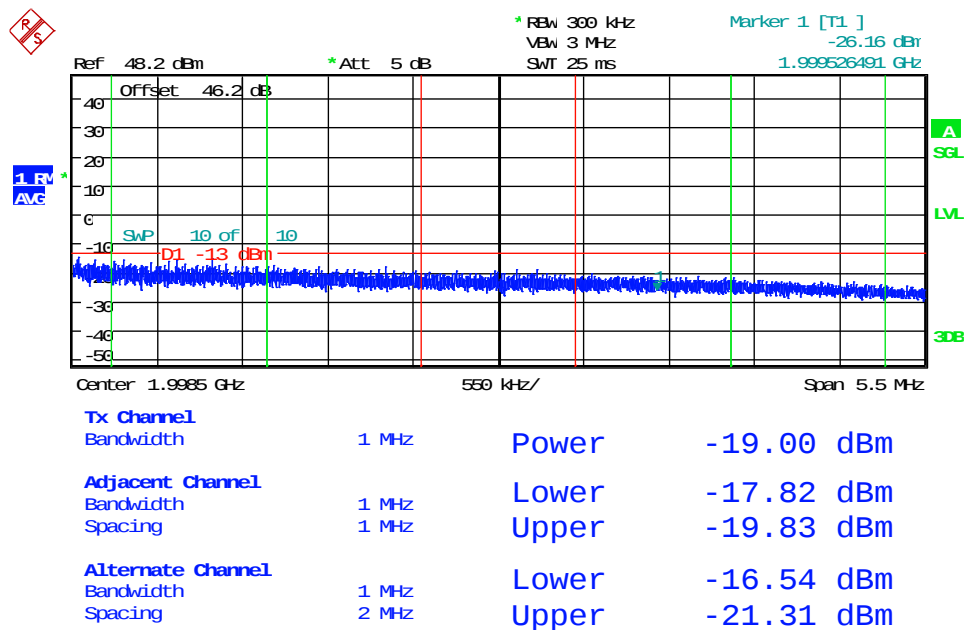


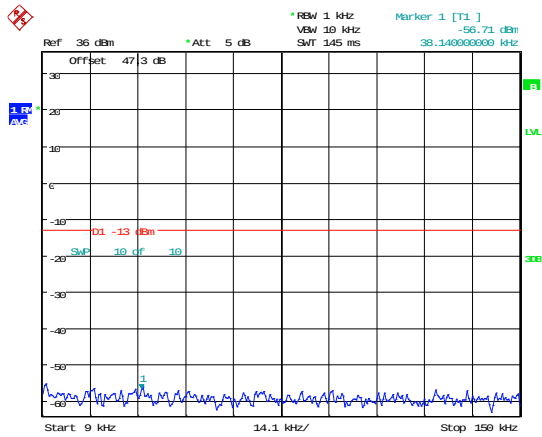
1930-1995MHz Top AWGN



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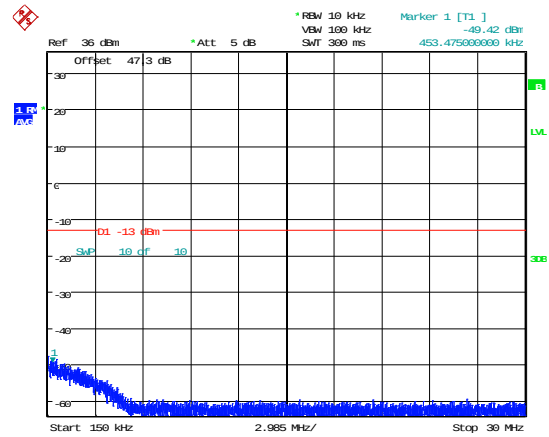
1930-1995MHz Top AWGN ACP





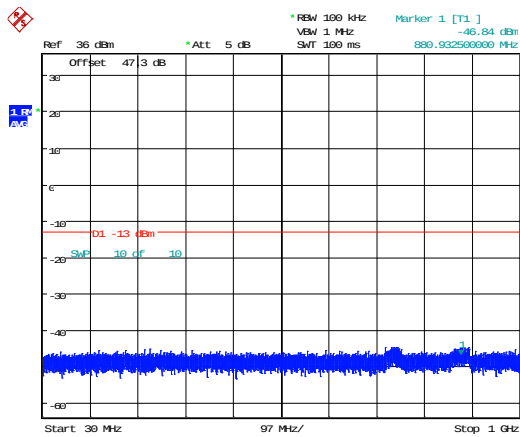
Date: 18.AUG.2015 13:12:50

1 – 2110-2155MHz Bottom (9 kHz to 150 kHz);
AWGN.



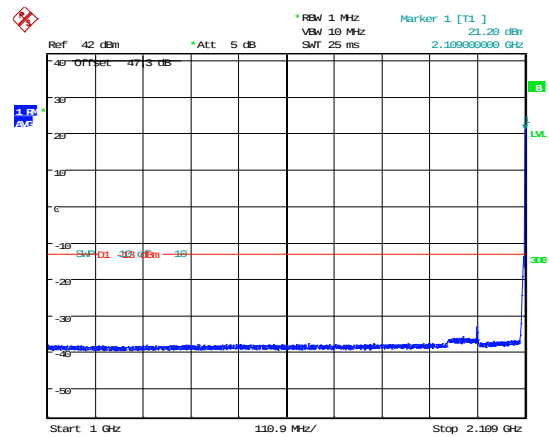
Date: 18.AUG.2015 13:13:23

2 – 2110-2155MHz Bottom (150 kHz to 30 MHz);
AWGN.



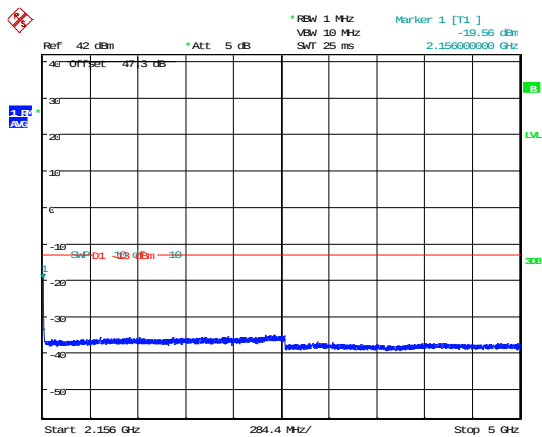
Date: 18.AUG.2015 13:13:59

3 – 2110-2155MHz Bottom (30 MHz to 1 GHz);
AWGN.



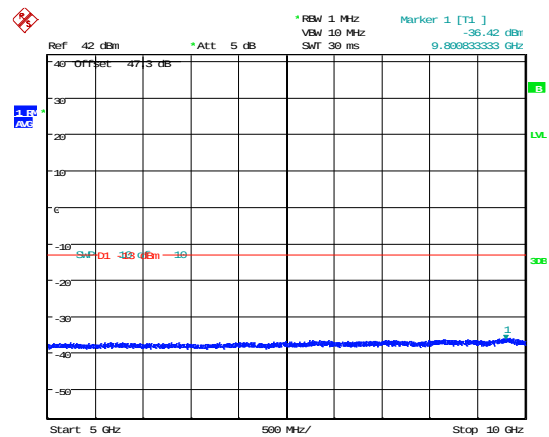
Date: 18.AUG.2015 13:19:03

4 – 2110-2155MHz Bottom (1 GHz to 2.109 GHz);
AWGN.



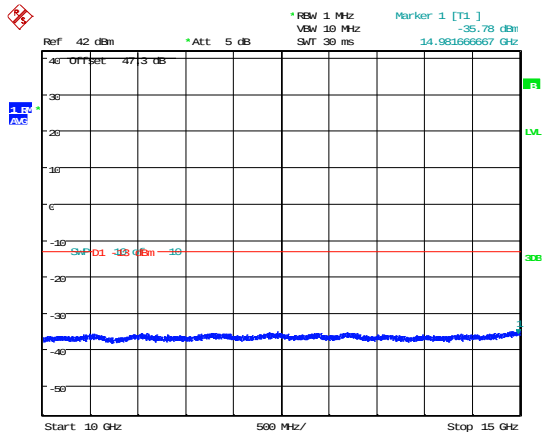
Date: 18.AUG.2015 13:19:47

5 – 2110-2155MHz Bottom (2.156 GHz to 5 GHz);
AWGN.



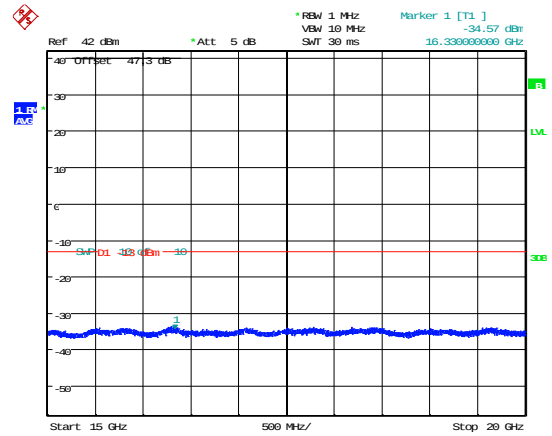
Date: 18.AUG.2015 13:20:08

6 – 2110-2155MHz Bottom (5 GHz to 10 GHz);
AWGN.



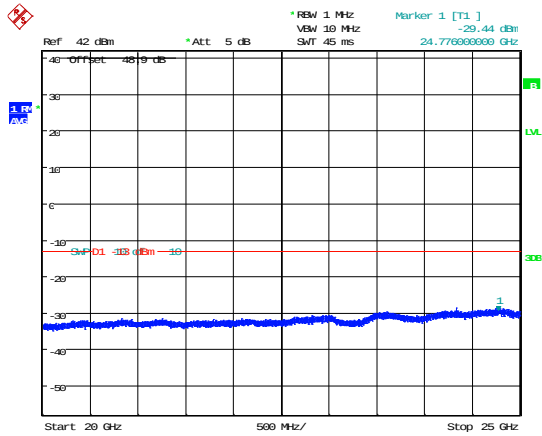
Date: 18.AUG.2015 13:20:20

7 – 2110-2155MHz Bottom (10 GHz to 15 GHz); AWGN.



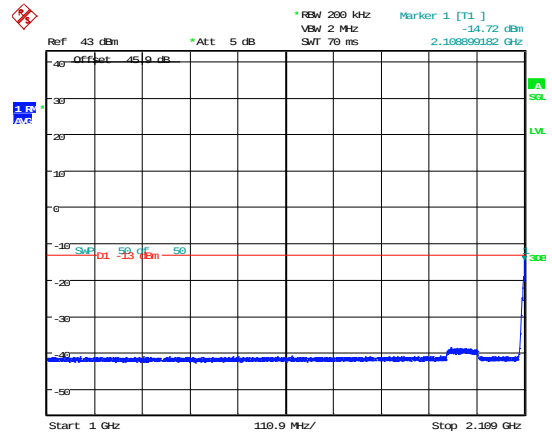
Date: 18.AUG.2015 13:20:49

8 – 2110-2155MHz Bottom (15 GHz to 20 GHz); AWGN.



Date: 18.AUG.2015 17:10:35

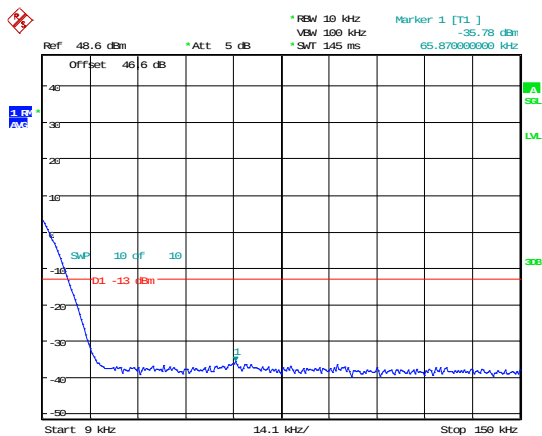
9 – 2110-2155MHz Bottom (20 GHz to 25 GHz); AWGN.



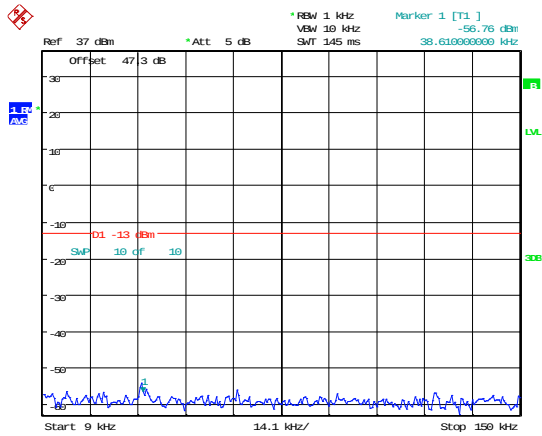
Date: 7.JAN.2016 08:59:39

2110-2155MHz Bottom# (1 GHz to 2.109 GHz); AWGN.

1 – 2110-2155MHz Bottom (9 kHz to 150 kHz); AWGN.

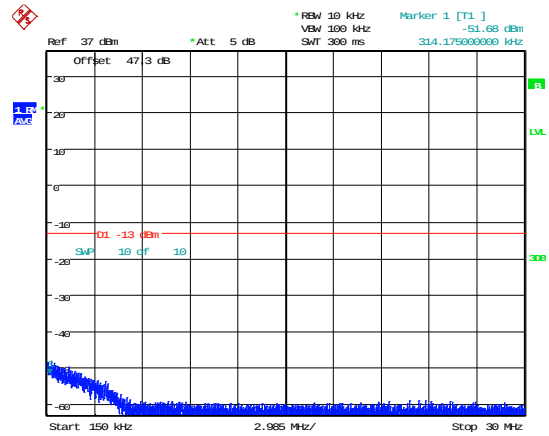


Date: 24.MAR.2016 11:22:03



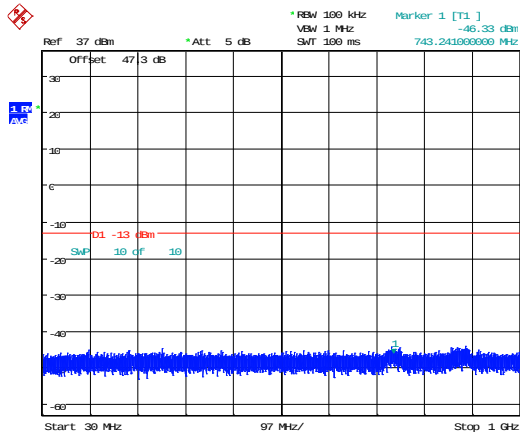
Date: 18.AUG.2015 13:23:18

1 – 2110-2155MHz Mid (9 kHz to 150 kHz);
AWGN.



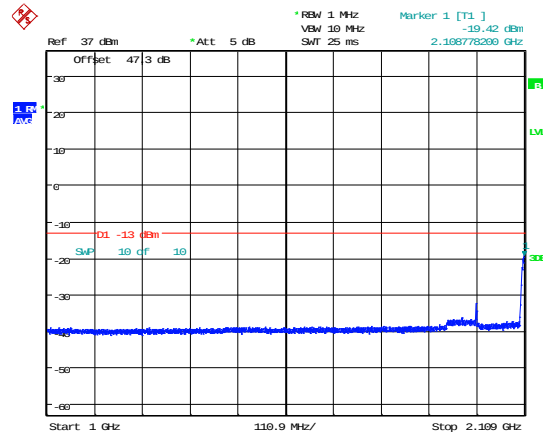
Date: 18.AUG.2015 13:23:57

2 – 2110-2155MHz Mid (150 kHz to 30 MHz);
AWGN.



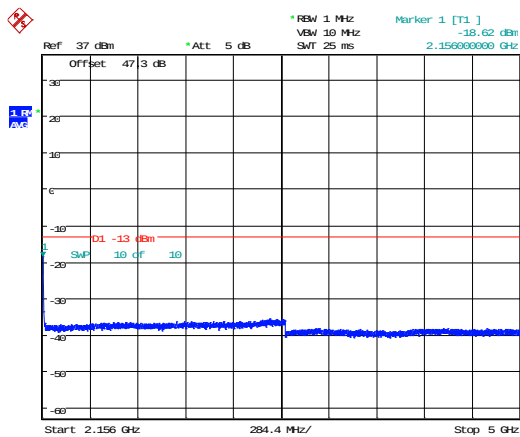
Date: 18.AUG.2015 13:24:45

3 – 2110-2155MHz Mid (30 MHz to 1 GHz);
AWGN.



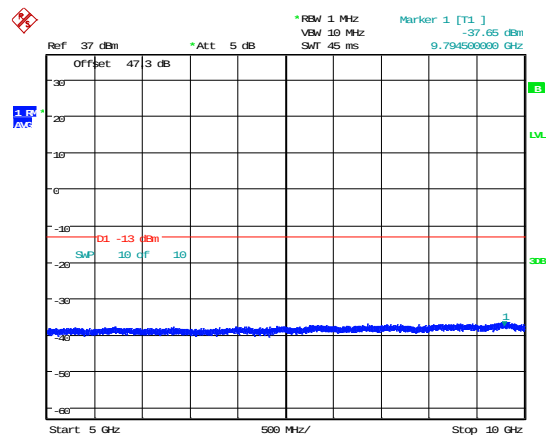
Date: 18.AUG.2015 13:26:32

4 – 2110-2155MHz Mid (1 GHz to 2.109 GHz);
AWGN.



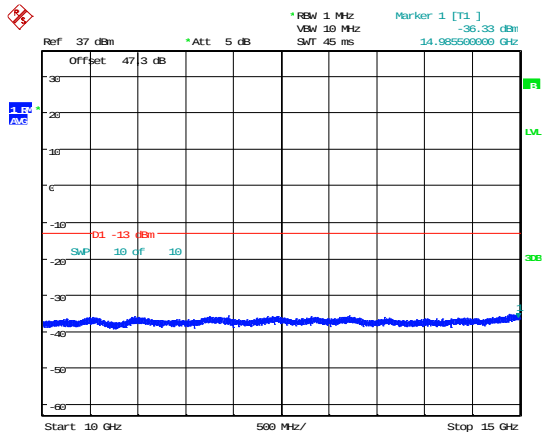
Date: 18.AUG.2015 13:27:27

5 – 2110-2155MHz Mid (2.156 GHz to 5 GHz);
AWGN.



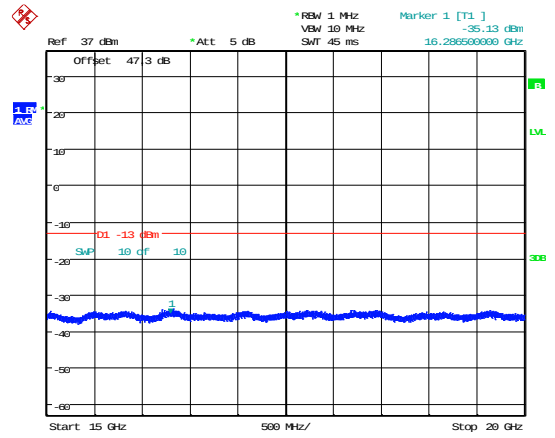
Date: 18.AUG.2015 13:27:56

6 – 2110-2155MHz Mid (5 GHz to 10 GHz);
AWGN.



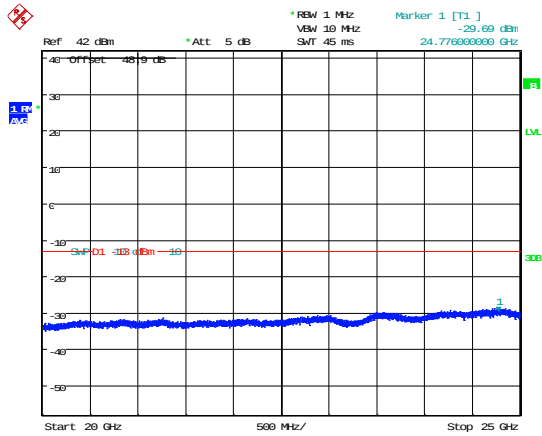
Date: 18.AUG.2015 13:28:16

7 – 2110-2155MHz Mid (10 GHz to 15 GHz);
AWGN.



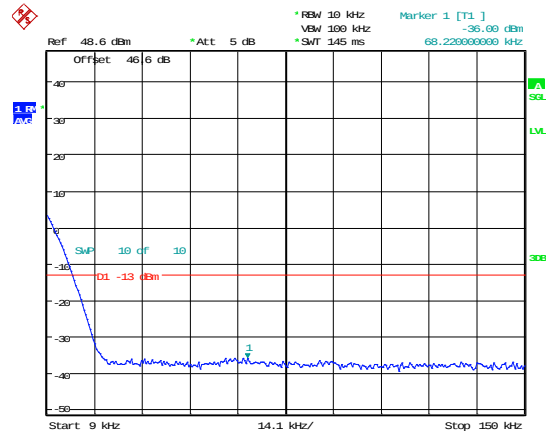
Date: 18.AUG.2015 13:28:37

8 – 2110-2155MHz Mid (15 GHz to 20 GHz);
AWGN.



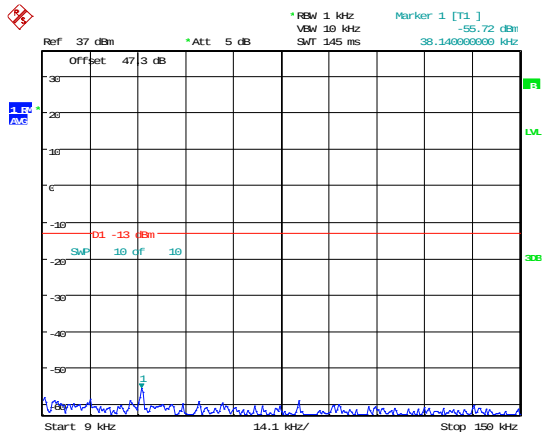
Date: 18.AUG.2015 17:13:14

9 – 2110-2155MHz Mid (20 GHz to 25 GHz);
AWGN.



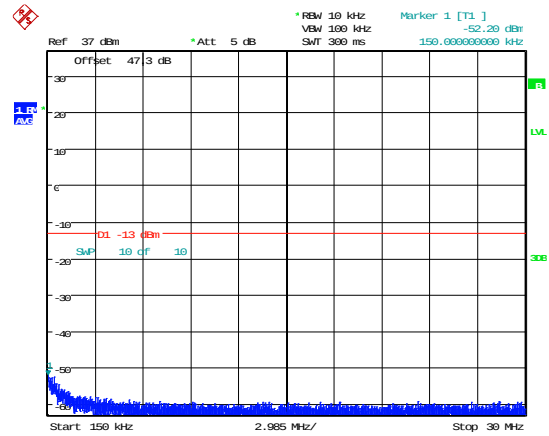
Date: 24.MAR.2016 11:21:21

10 – 2110-2155MHz Mid (9 kHz to 150 kHz);
AWGN.



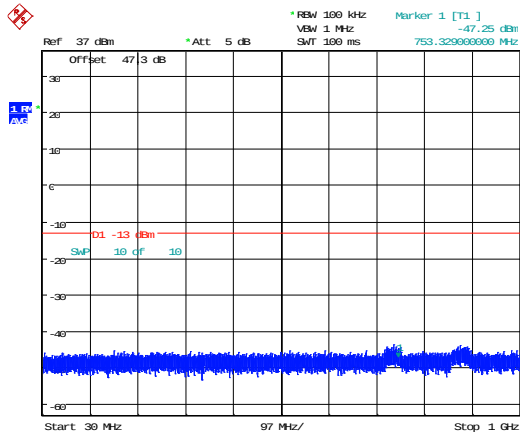
Date: 18.AUG.2015 15:04:20

1 – 2110-2155MHz Top (9 kHz to 150 kHz);
AWGN.



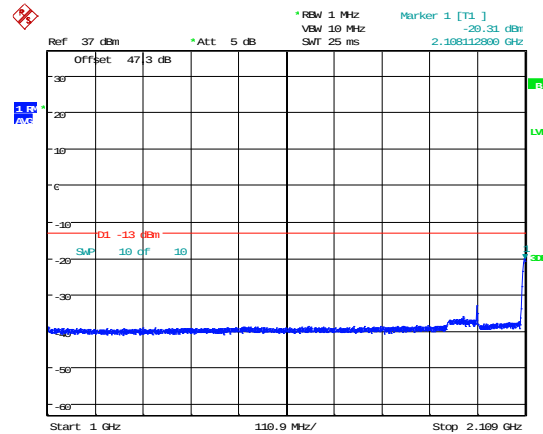
Date: 18.AUG.2015 15:04:59

2 – 2110-2155MHz Top (150 kHz to 30 MHz);
AWGN.



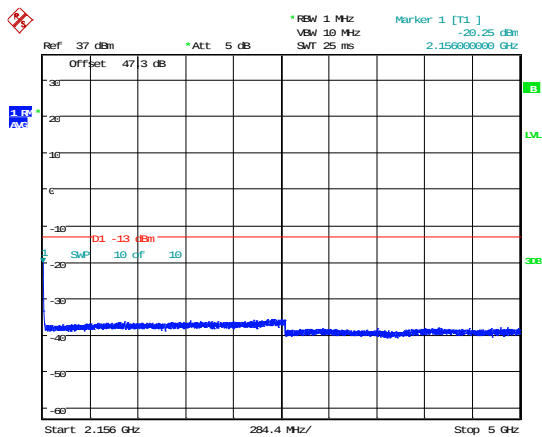
Date: 18.AUG.2015 15:05:51

3 – 2110-2155MHz Top (30 MHz to 1 GHz);
AWGN.



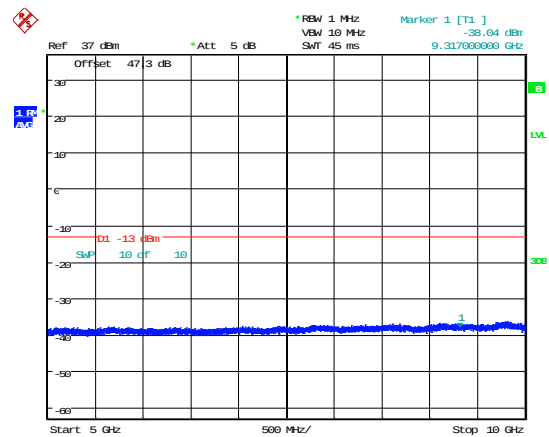
Date: 18.AUG.2015 15:06:37

4 – 2110-2155MHz Top (1 GHz to 2.109 GHz);
AWGN.



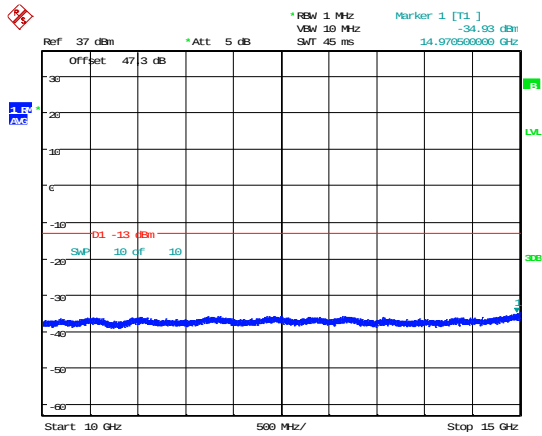
Date: 18.AUG.2015 15:07:12

5 – 2110-2155MHz Top (2.156 GHz to 5 GHz);
AWGN.



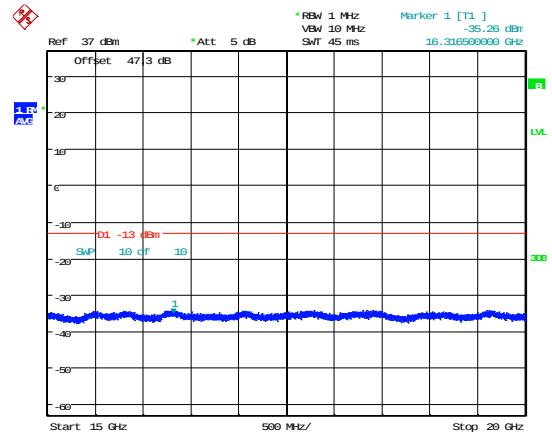
Date: 18.AUG.2015 15:07:38

6 – 2110-2155MHz Top (5 GHz to 10 GHz);
AWGN.



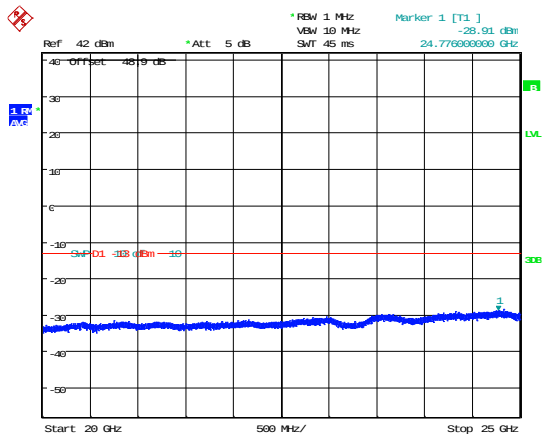
Date: 18.AUG.2015 15:07:59

7 – 2110-2155MHz Top (10 GHz to 15 GHz);
AWGN.



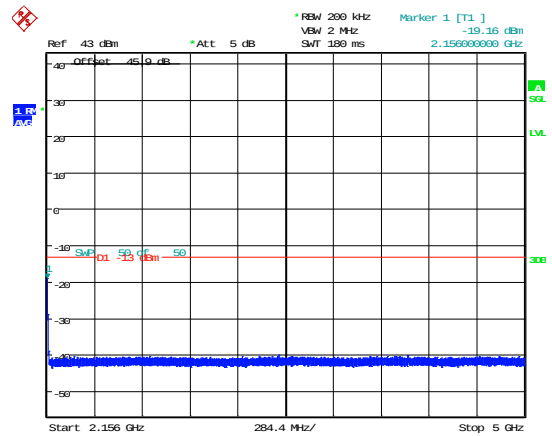
Date: 18.AUG.2015 15:08:22

8 – 2110-2155MHz Top (15 GHz to 20 GHz);
AWGN.



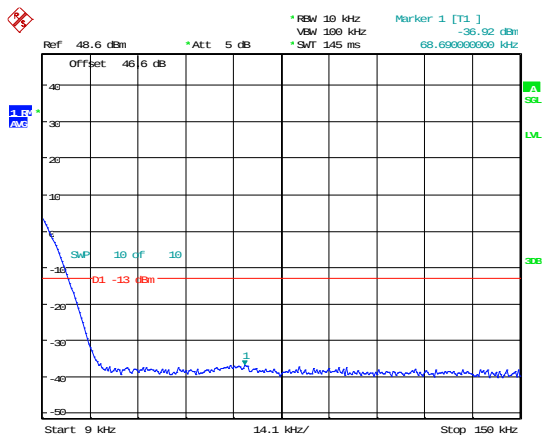
Date: 18.AUG.2015 17:18:22

9 – 2110-2155MHz Top (20 GHz to 25 GHz);
AWGN.



Date: 7.JAN.2016 09:07:24

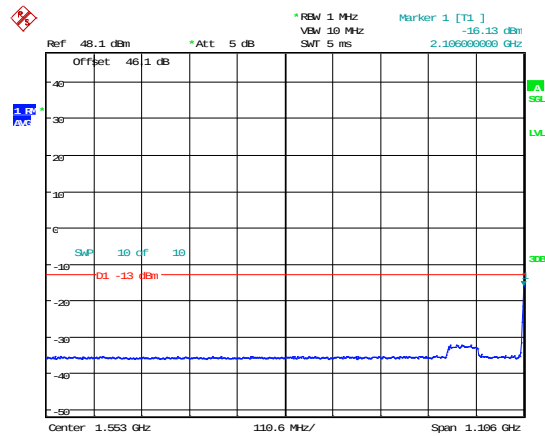
2110-2155MHz Top (2.156 GHz to 5 GHz); AWGN.



Date: 24.MAR.2016 11:21:03

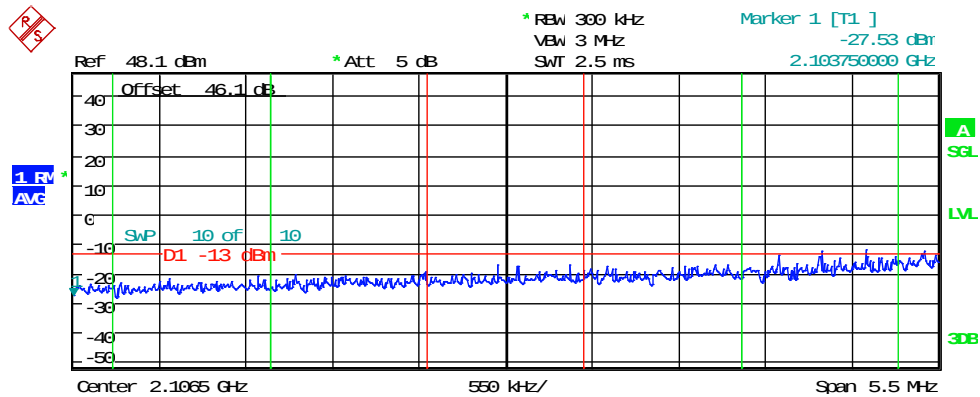
1 – 2110-2155MHz Top (9 kHz to 150 kHz); AWGN.

2110-2155MHz bottom AWGN



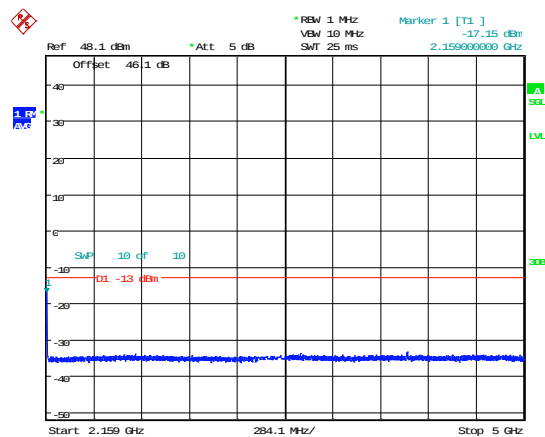
Date: 15.APR.2016 09:04:47

2110-2155 bottom AWGN ACP



<u>Tx Channel</u>			
Bandwidth	1 MHz	Power	-17.21 dBm
<u>Adjacent Channel</u>			
Bandwidth	1 MHz	Lower	-18.48 dBm
Spacing	1 MHz	Upper	-15.80 dBm
<u>Alternate Channel</u>			
Bandwidth	1 MHz	Lower	-20.14 dBm
Spacing	2 MHz	Upper	-13.25 dBm

2110-2155MHz Top AWGN



Date: 15.APR.2016 09:13:56

2110-2155MHz Top AWGN ACP

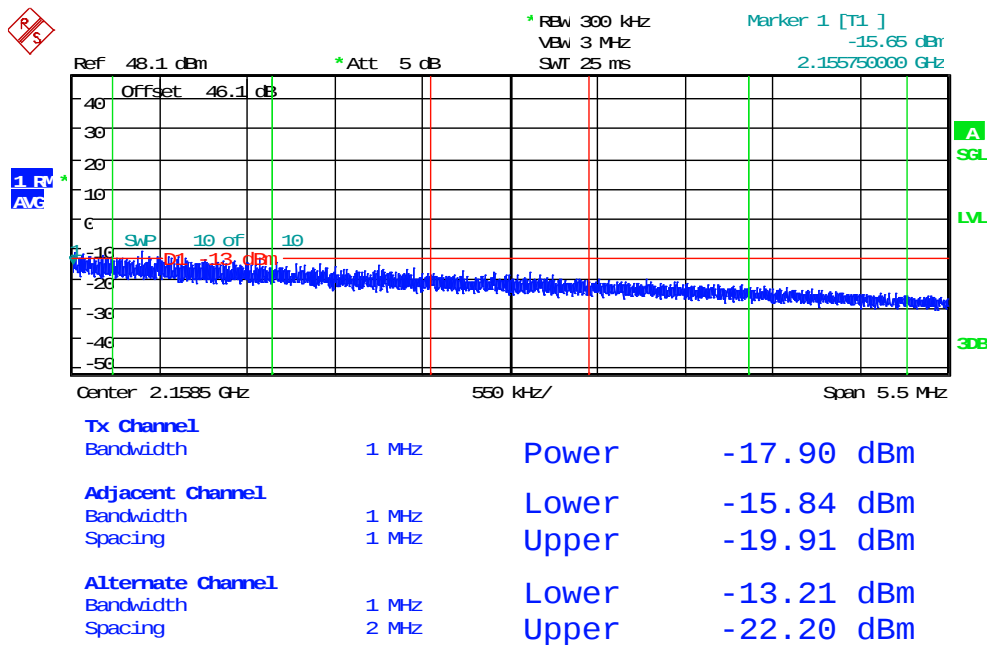


Table A**Bottom Channel 728-757MHz/ 862-894MHz/1930-1995MHz/2110-2155MHz**

Frequency Range	Freq. of Emission (MHz)	Measured Level (dBm)	Attenuator & Cable Losses (dB)	Spurious Emission Level (dBm)	Limit dBm
9kHz - 23GHz	No Significant Emissions Within 10 dB of the Limit				-13

Middle Channel 728-757MHz/ 862-894MHz/1930-1995MHz/2110-2155MHz

Frequency Range	Freq. of Emission (MHz)	Measured Level (dBm)	Attenuator & Cable Losses (dB)	Spurious Emission Level (dBm)	Limit dBm
9kHz - 23GHz	No Significant Emissions Within 10 dB of the Limit				-13

Top channel 728-757MHz/ 862-894MHz/1930-1995MHz/2110-2155MHz

Frequency Range	Freq. of Emission (MHz)	Measured Level (dBm)	Attenuator & Cable Losses (dB)	Spurious Emission Level (dBm)	Limit dBm
9kHz - 23GHz	No Significant Emissions Within 10 dB of the Limit				-13

LIMIT =-13 dBm

Note: Any emissions discovered that require investigation the resolution bandwidth in the table Below shall be used.

Note: Refer to appendix D regarding the reduction in resolution bandwidth plots.

Frequency Bands	Rule part	RBW
728-757MHz	27.53(c)(5)&(g)	≥100kHz*
862-894MHz	22.917(b)	≥100kHz [#]
1930-1995MHz	24.238(b)	≥1MHz ^{\$}
2110-2155MHz	27.53(h)	≥1MHz ^{\$}

* Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

[#]Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

^{\$} Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

Note: Refer to appendix D regarding the reduction in resolution bandwidth plots.

A7 Radiated Electric Field Emissions

Preliminary scans were performed using a peak detector, the radiated electric field emission test applies to all spurious and harmonic emissions. The EUT was set to transmit as required.

The following test site was used for final measurements as specified by the standard tested to:

3m open area test site :

☐

3m alternative test site :

☒

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.6.8 Part 2.1053
Frequency range	30 MHz - 25 GHz
EUT sample number	S01
Modification state	0
SE in test environment	None
SE isolated from EUT	None
EUT set up	Refer to Appendix C

Bottom Channel 728-757MHz/ 862-894MHz/1930-1995MHz

FREQUENCY RANGE	FREQ. (MHz)	ERP/EIRP (dBm)	LIMIT (dBm)
30MHz - 25GHz	No Significant Emissions Within 10 dB of the Limit		-13

Mid Channel 728-757MHz/ 862-894MHz/1930-1995MHz/

FREQUENCY RANGE	FREQ. (MHz)	ERP/EIRP (dBm)	LIMIT (dBm)
30MHz - 25GHz	No Significant Emissions Within 10 dB of the Limit		-13

Top Channel 728-757MHz/ 862-894MHz/1930-1995MHz

FREQUENCY RANGE	FREQ. (MHz)	ERP/EIRP (dBm)	LIMIT (dBm)
30MHz - 25GHz	No Significant Emissions Within 10 dB of the Limit		-13

Mid Channel 2110-2155MHz

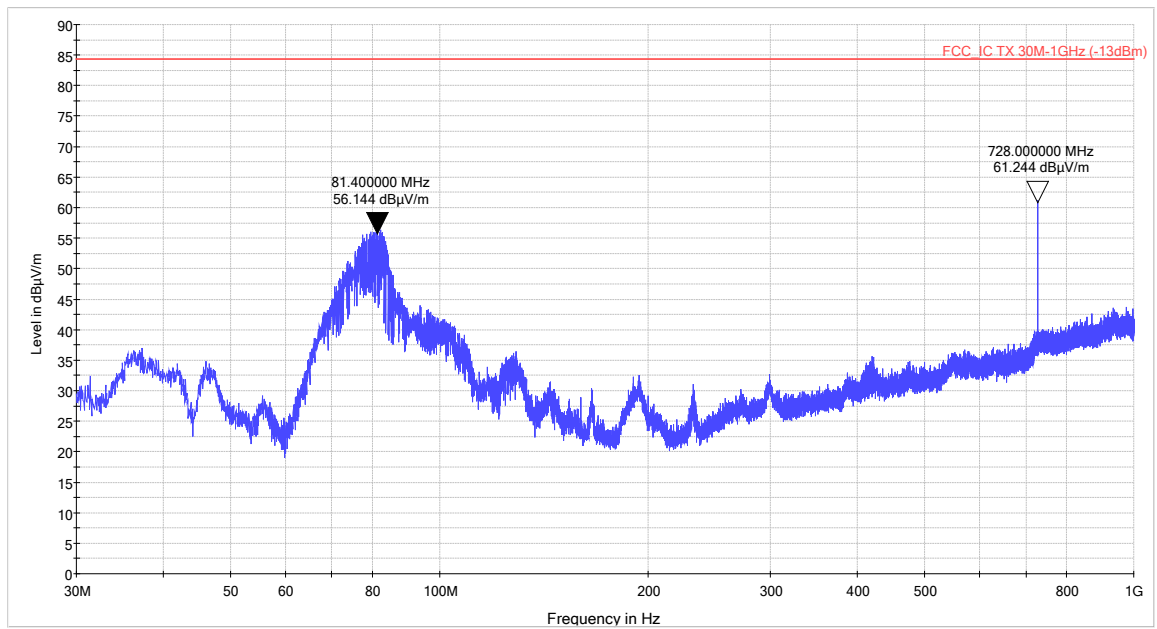
FREQUENCY RANGE	FREQ. (MHz)	ERP/EIRP (dBm)	LIMIT (dBm)
30MHz - 25GHz	4269.230	-27.95	-13

Top Channel Mid Channel 2110-2155MHz

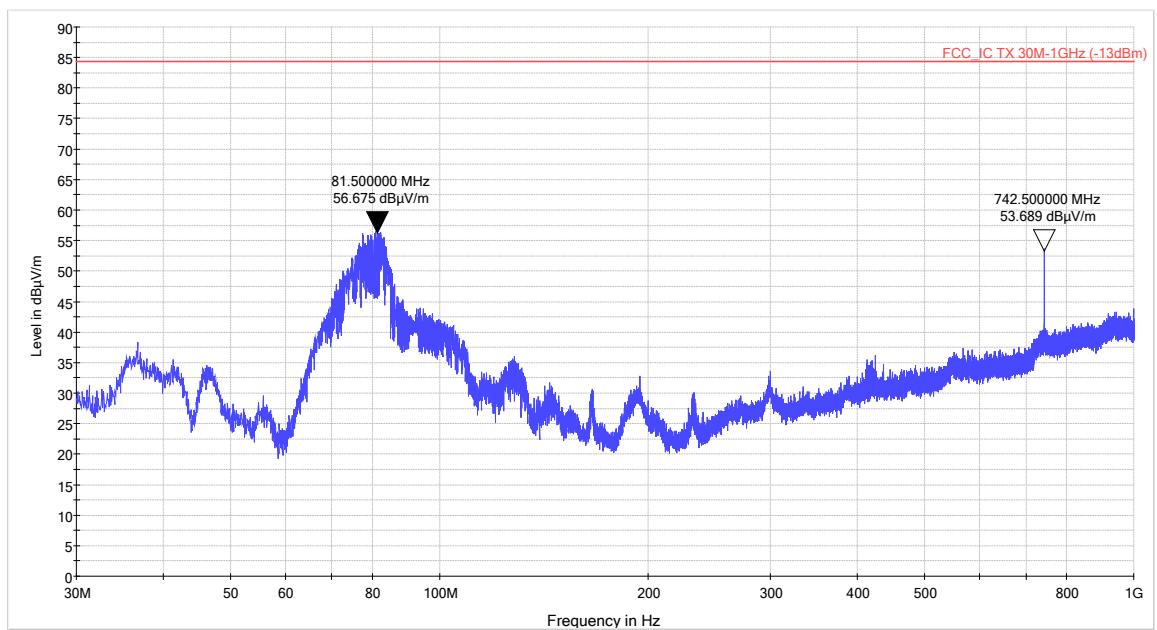
FREQUENCY RANGE	FREQ. (MHz)	ERP/EIRP (dBm)	LIMIT (dBm)
30MHz - 25GHz	4314.102	-29.98	-13

Result: The EUT was found to comply with the limits

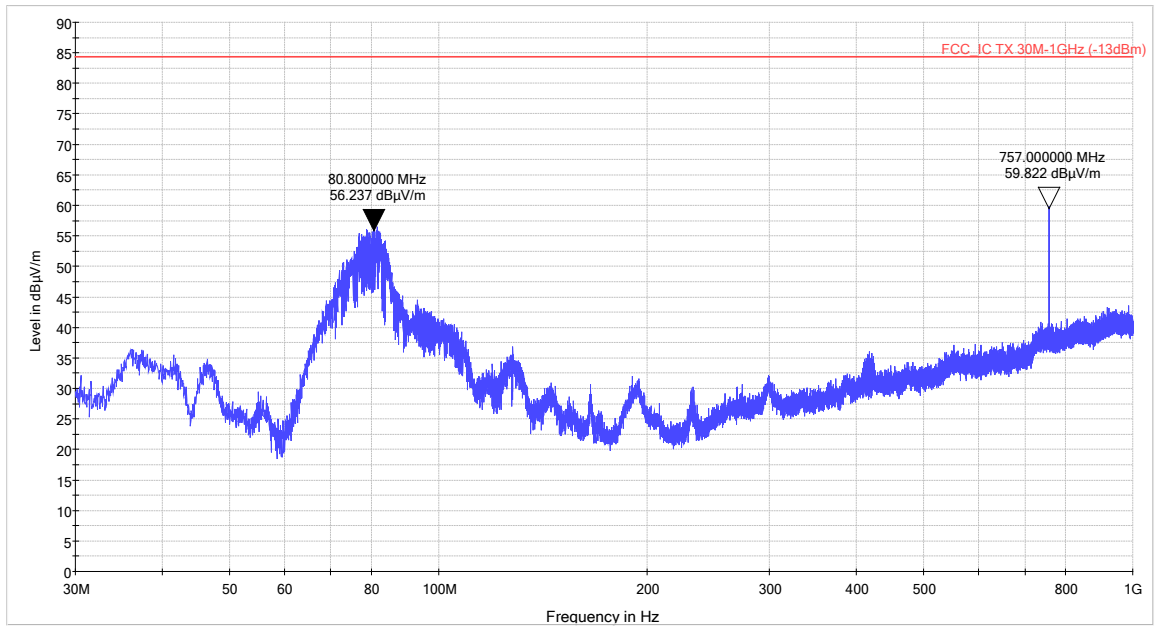
728-757MHz bottom 30MHz-1GHz



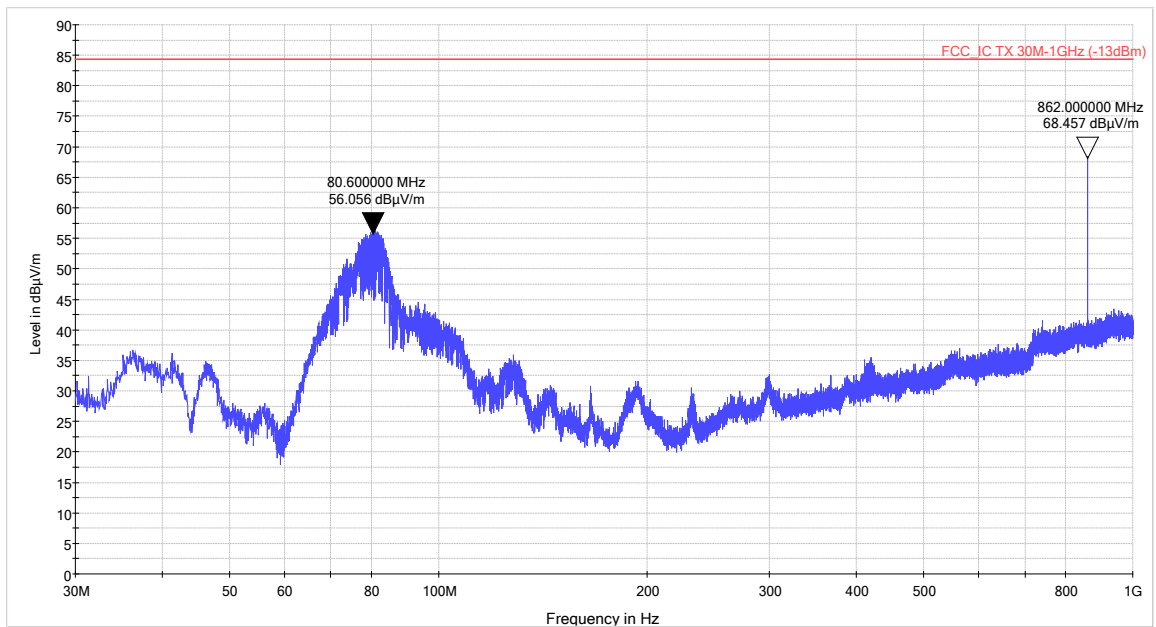
728-757MHz Mid 30MHz-1GHz



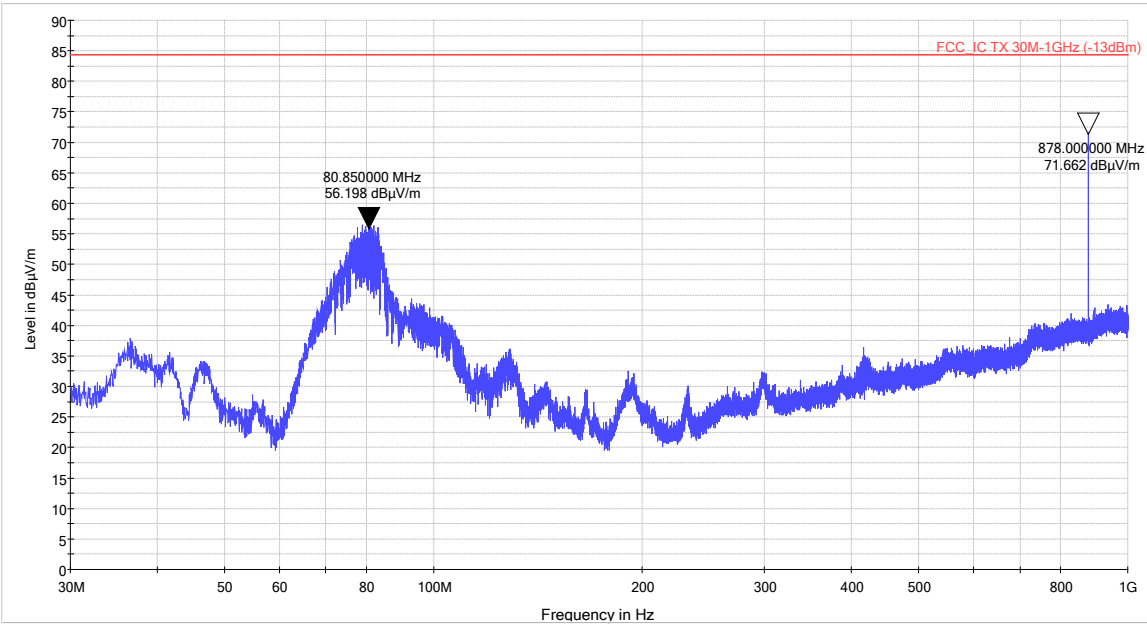
728-757MHz Top 30MHz-1GHz



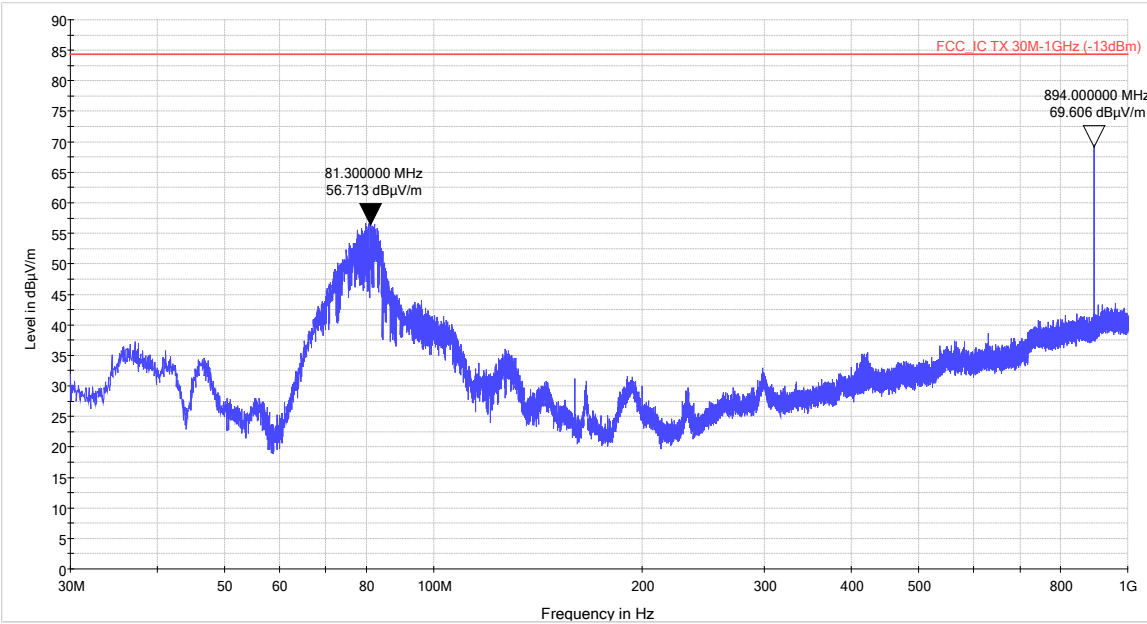
862-894MHz bottom 30MHz-1GHz



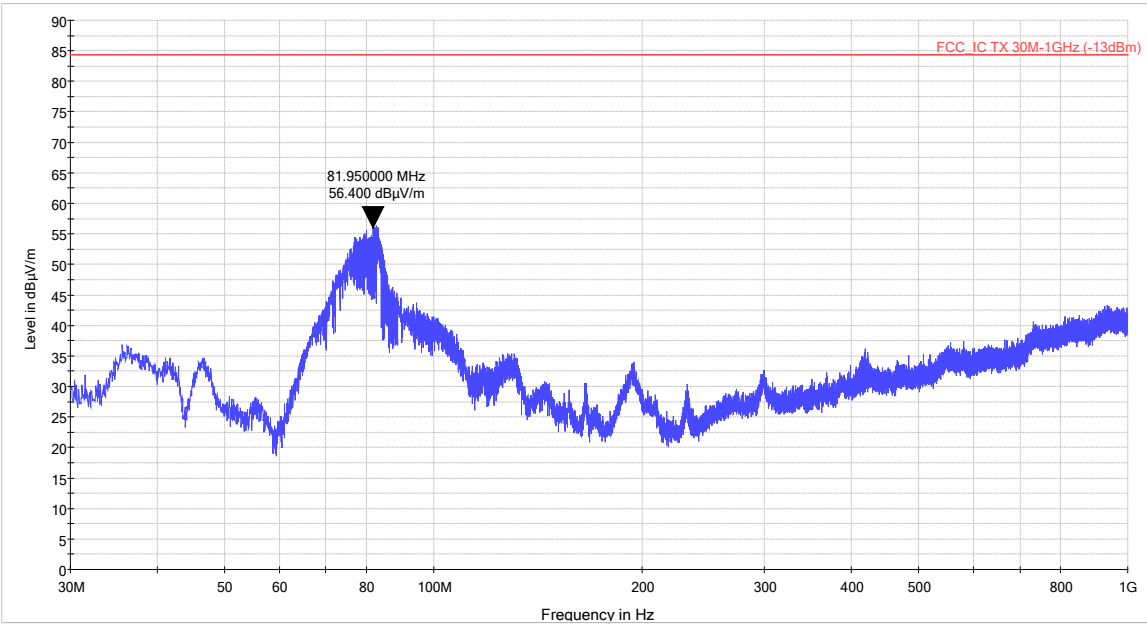
862-894MHz Mid 30MHz-1GHz



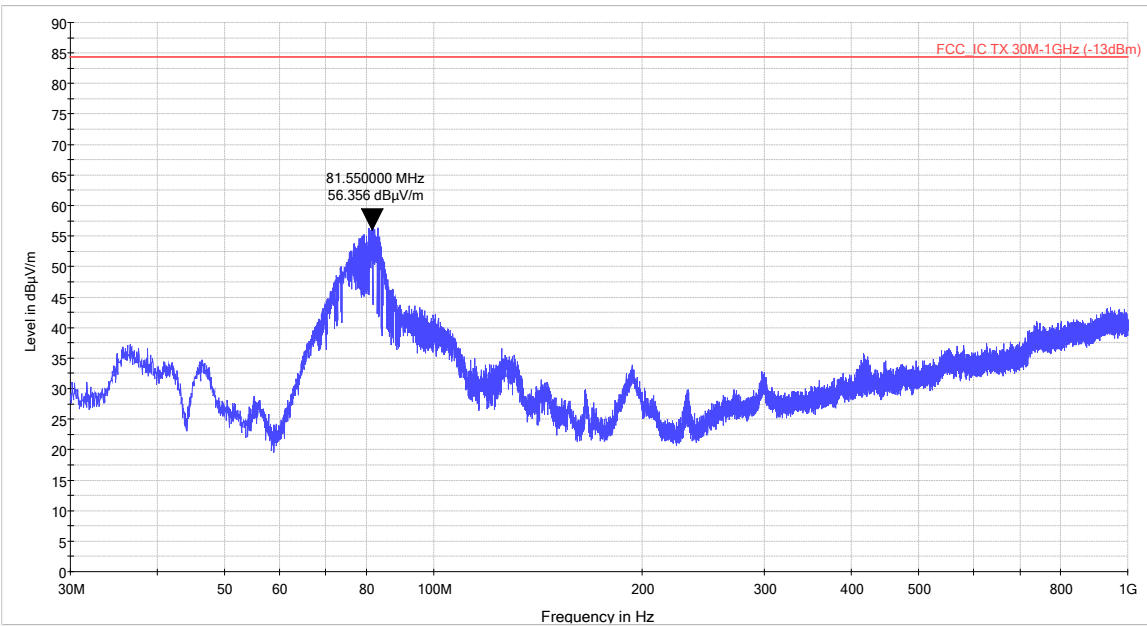
862-894MHz Top 30MHz-1GHz



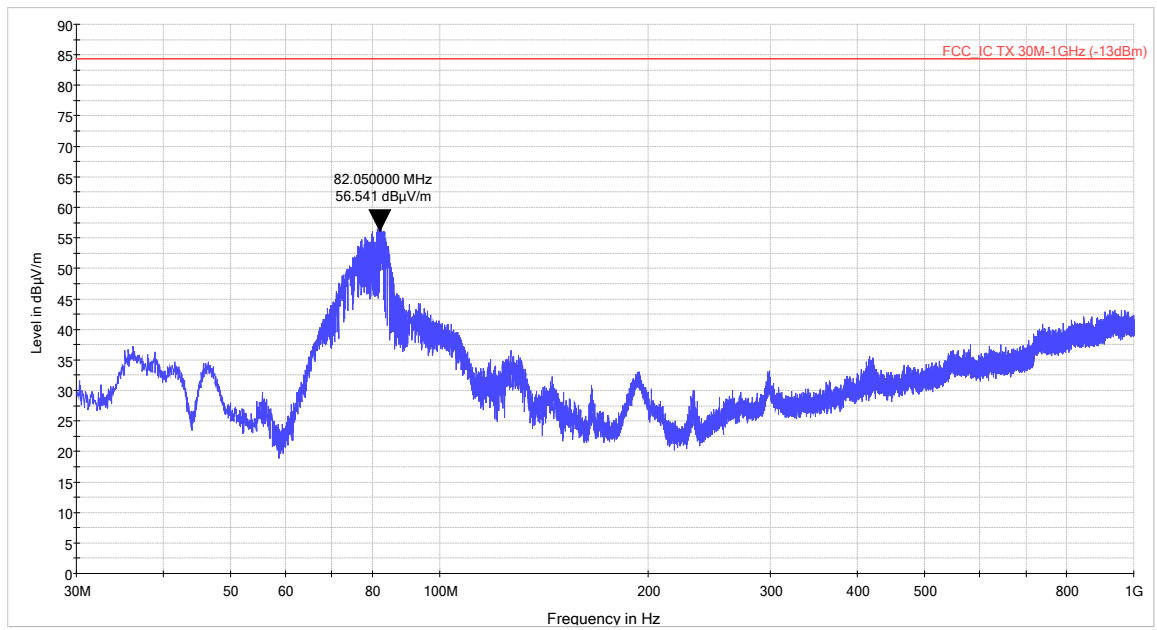
1930-1995MHz bottom 30MHz-1GHz



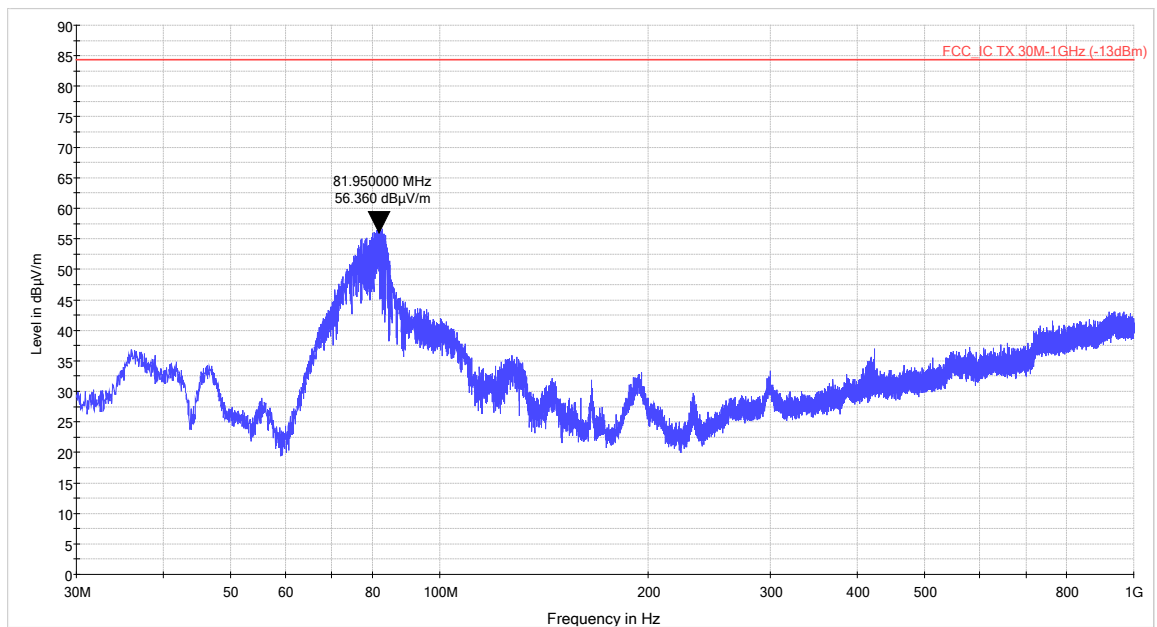
1930-1995MHz Mid 30MHz-1GHz



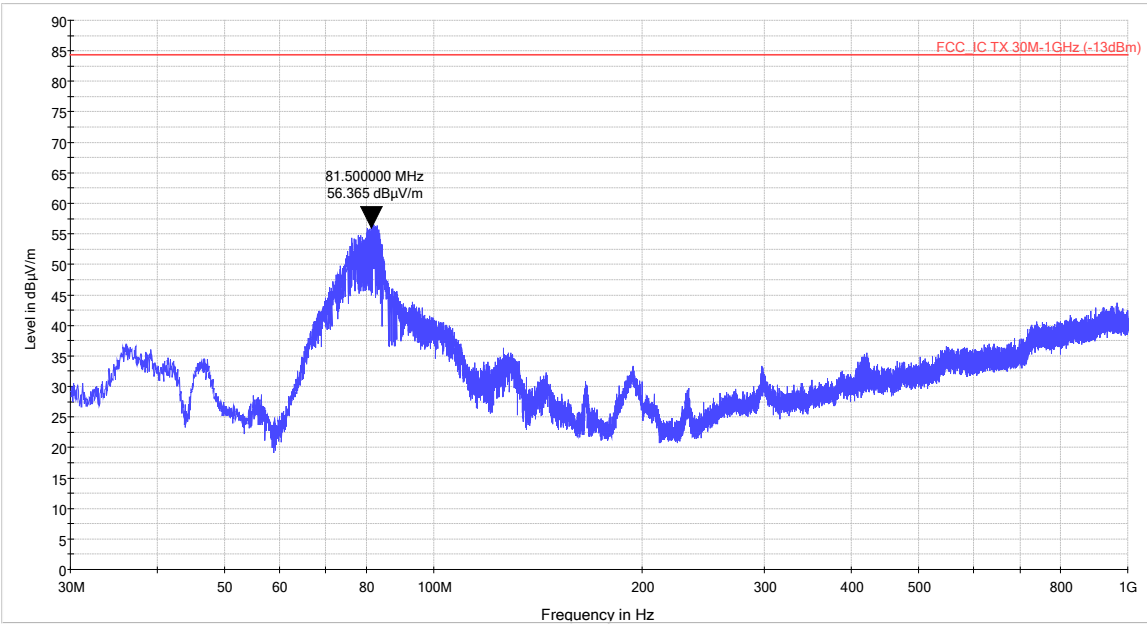
1930-1995MHz Top 30MHz-1GHz



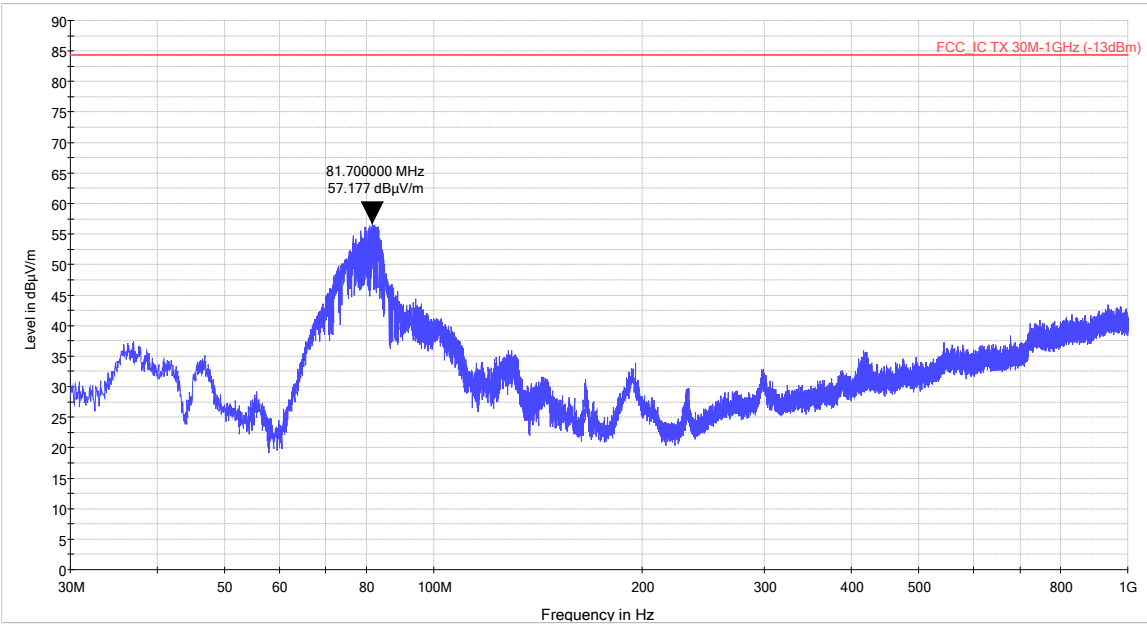
2110-2155MHz bottom 30MHz-1GHz

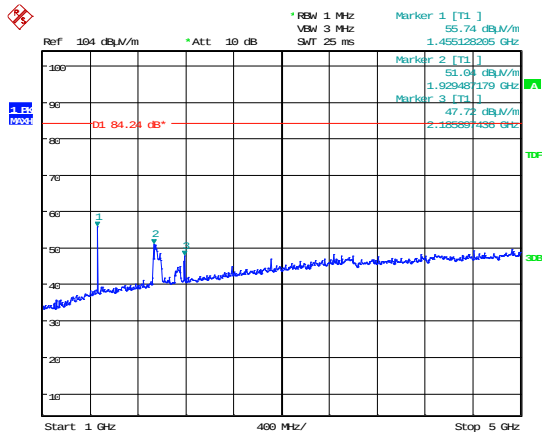


2110-2155MHz Mid 30MHz-1GHz



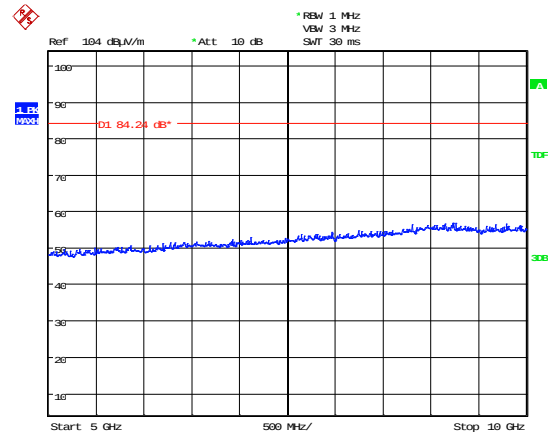
2110-2155MHz Top 30MHz-1GHz





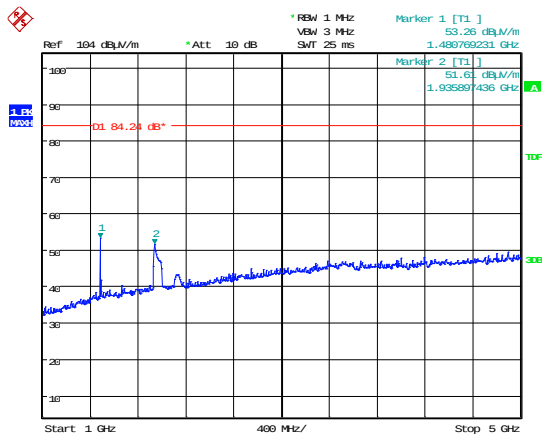
Date: 2.SEP.2015 14:02:42

1 – 728-757MHz BOT (1 GHz to 5 GHz).



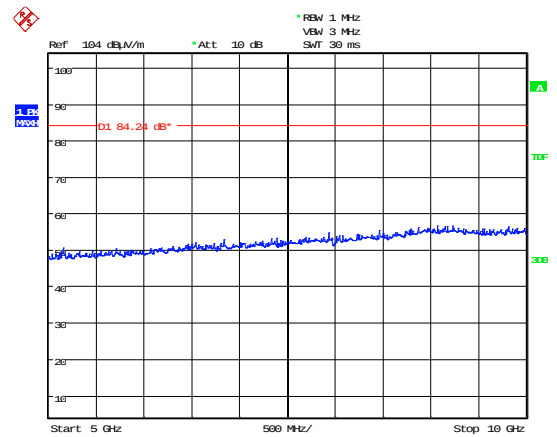
Date: 2.SEP.2015 14:03:57

2 – 728-757MHz BOT (5 GHz to 10 GHz).



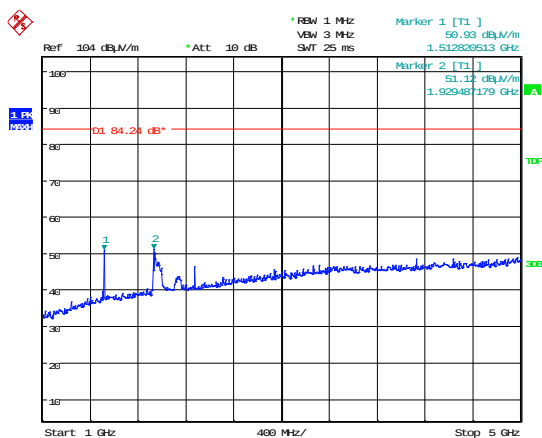
Date: 2.SEP.2015 14:12:10

1 – 728-757MHz Mid (1 GHz to 5 GHz).



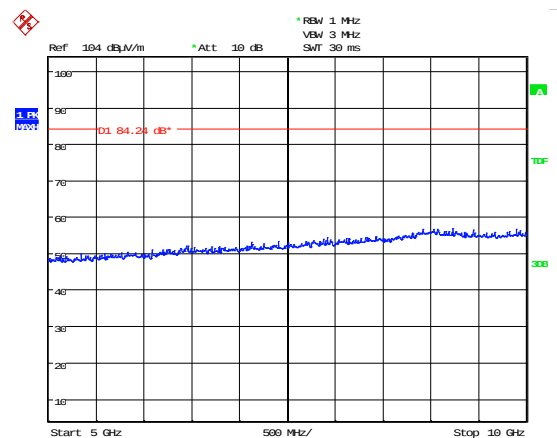
Date: 2.SEP.2015 14:11:06

2 – 728-757MHz Mid (5 GHz to 10 GHz).



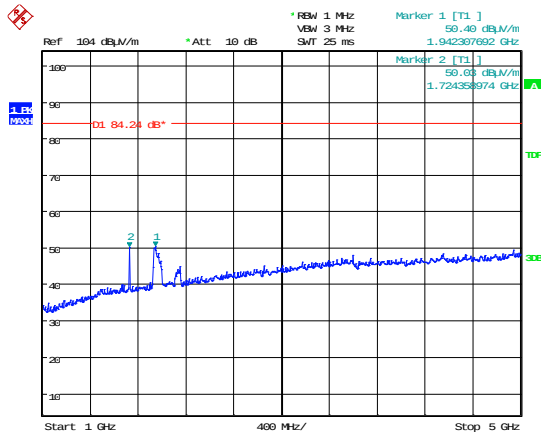
Date: 2.SEP.2015 14:13:26

1 – 728-757 Top (1 GHz to 5 GHz).



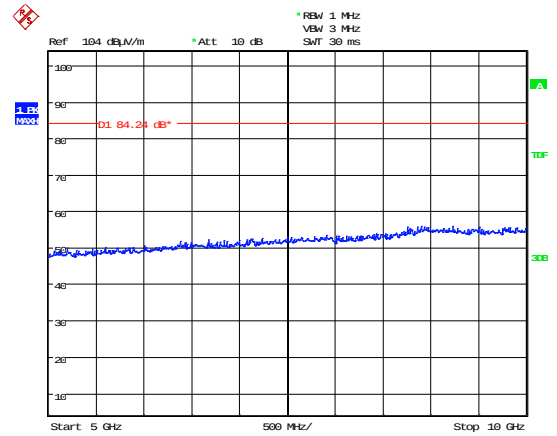
Date: 2.SEP.2015 14:14:44

2 – 728-757 Top (5 GHz to 10 GHz).



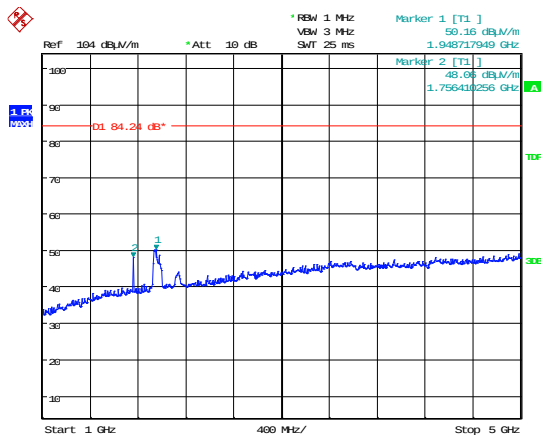
Date: 2.SEP.2015 14:24:52

1 – 862-894MHz bottom (1 GHz to 5 GHz).



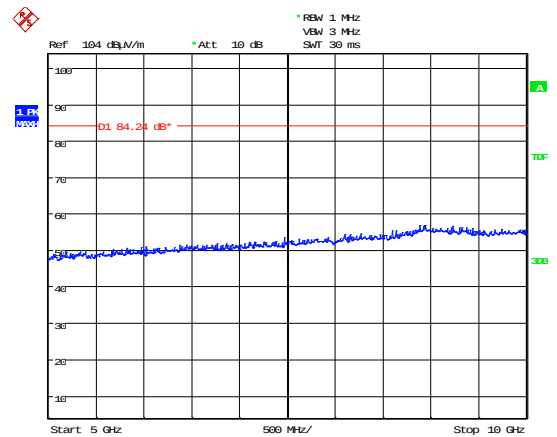
Date: 2.SEP.2015 14:23:25

2 – 862-894MHz bottom (5 GHz to 10 GHz).



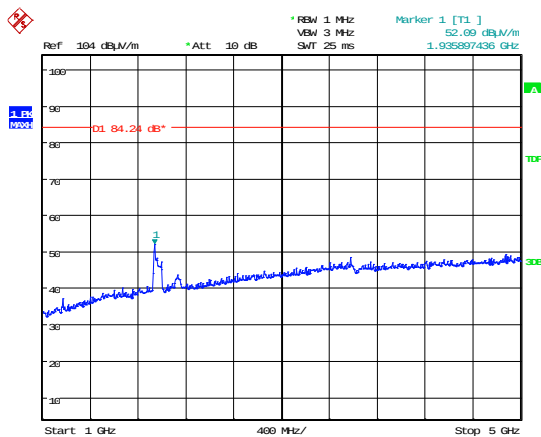
Date: 2.SEP.2015 14:26:22

1 – 862-894MHz Mid (1 GHz to 5 GHz).



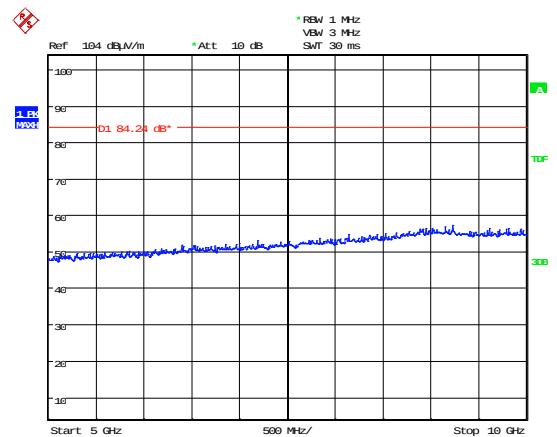
Date: 2.SEP.2015 14:27:25

2 – 862-894MHz Mid (5 GHz to 10 GHz).



Date: 2.SEP.2015 14:36:00

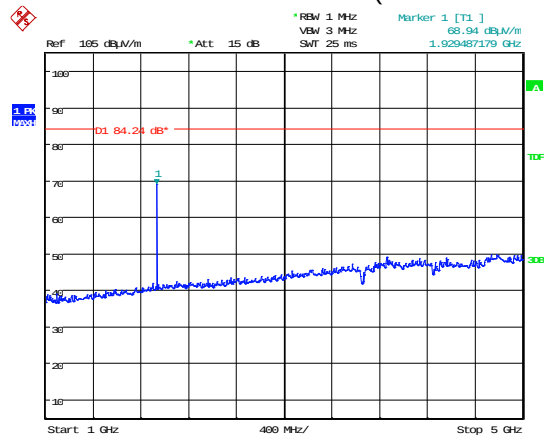
1 – 862-894MHz Top (1 GHz to 5 GHz).



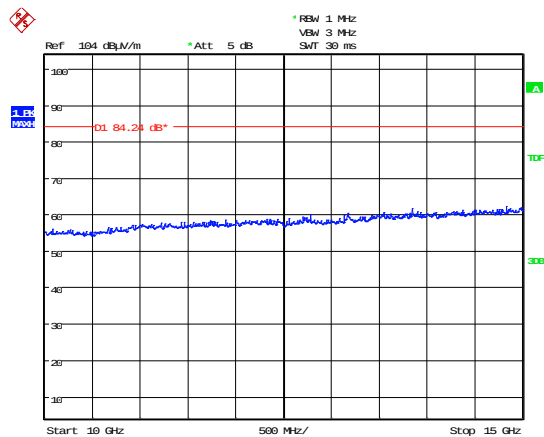
Date: 2.SEP.2015 14:33:28

2 – 862-894MHz Top (5 GHz to 10 GHz).

1 – 1930-1995MHz bottom (1 GHz to 5 GHz).

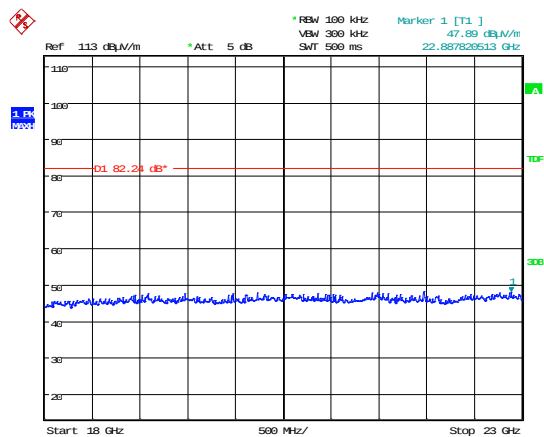


Date: 21.MAR.2016 10:57:37



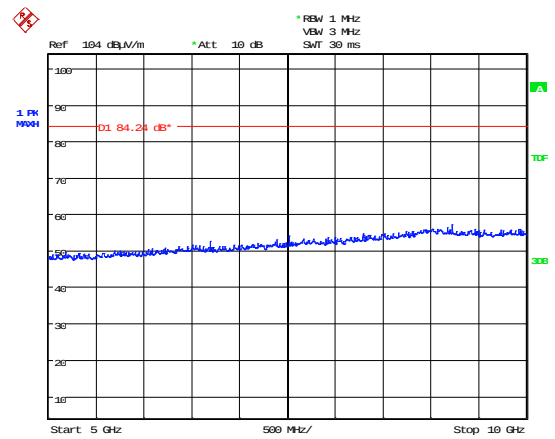
Date: 2.SEP.2015 15:19:17

3 – 1930-1995MHz bottom (10 GHz to 15 GHz).



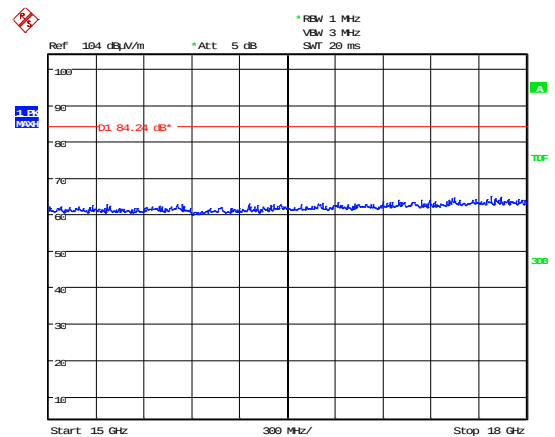
Date: 7.DEC.2015 14:03:08

5 – 1930-1995MHz bottom (18 GHz to 23 GHz).



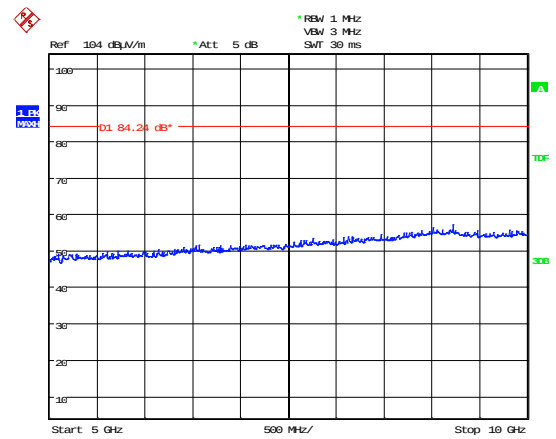
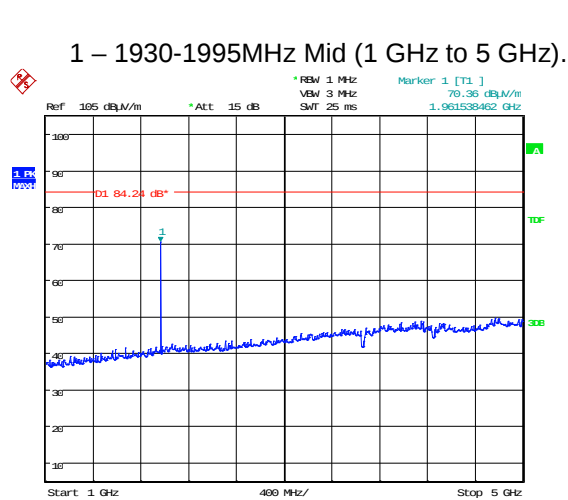
Date: 2.SEP.2015 15:11:20

2 – 1930-1995MHz bottom (5 GHz to 10 GHz).



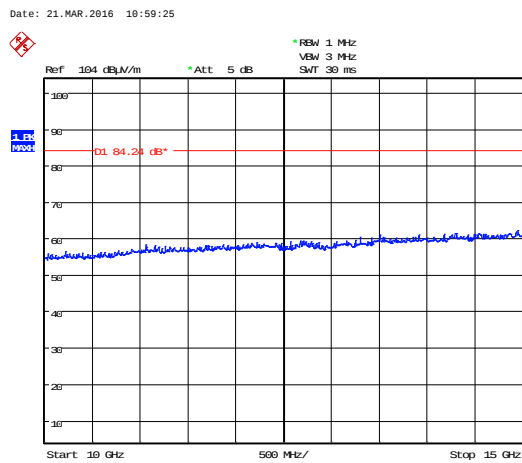
Date: 2.SEP.2015 15:20:27

4 – 1930-1995MHz bottom (15 GHz to 18 GHz).



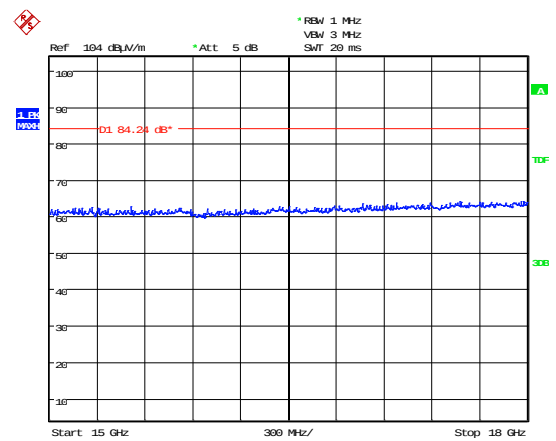
Date: 2.SEP.2015 15:22:54

2 – 1930-1995MHz Mid (5 GHz to 10 GHz).



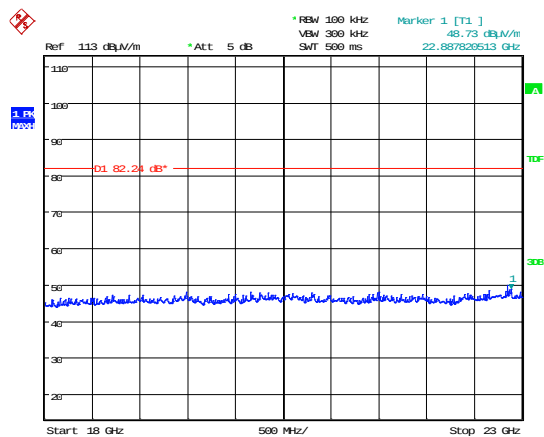
Date: 2.SEP.2015 15:24:39

3 – 1930-1995MHz Mid (10 GHz to 15 GHz).



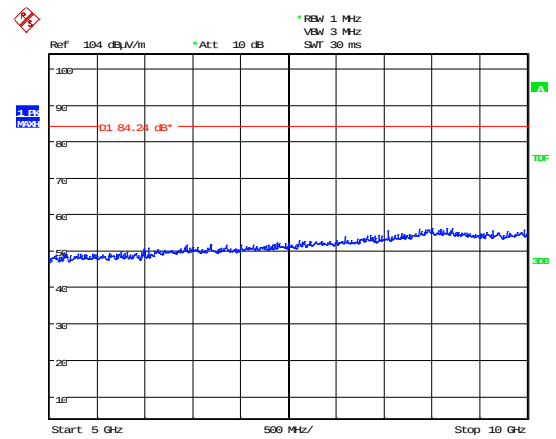
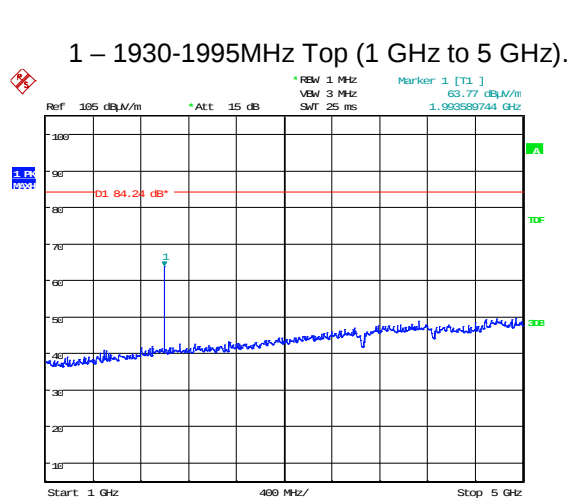
Date: 2.SEP.2015 15:25:35

4 – 1930-1995MHz Mid (15 GHz to 18 GHz).



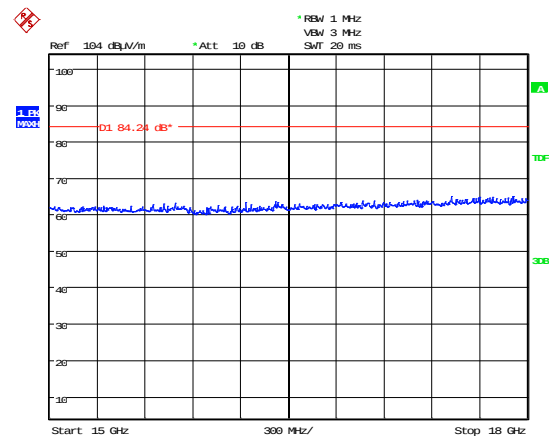
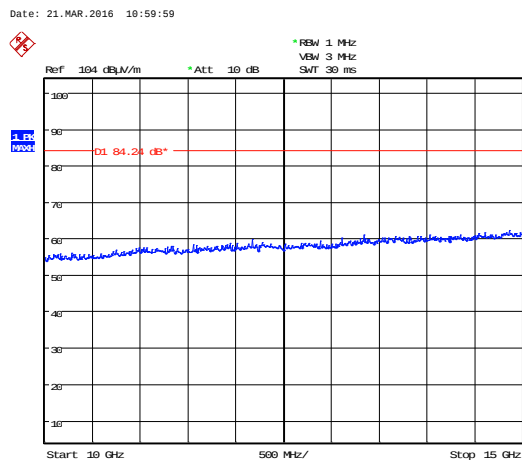
Date: 7.DEC.2015 14:03:53

5 – 1930-1995MHz Mid (18 GHz to 23 GHz)



Date: 2.SEP.2015 15:52:23

2 – 1930-1995MHz Top (5 GHz to 10 GHz).

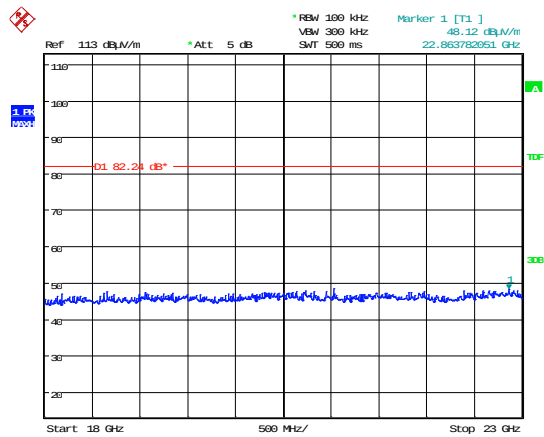


Date: 2.SEP.2015 15:53:29

3 – 1930-1995MHz Top (10 GHz to 15 GHz).

Date: 2.SEP.2015 15:54:34

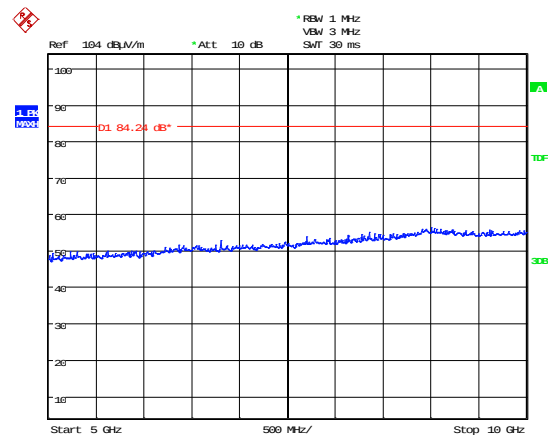
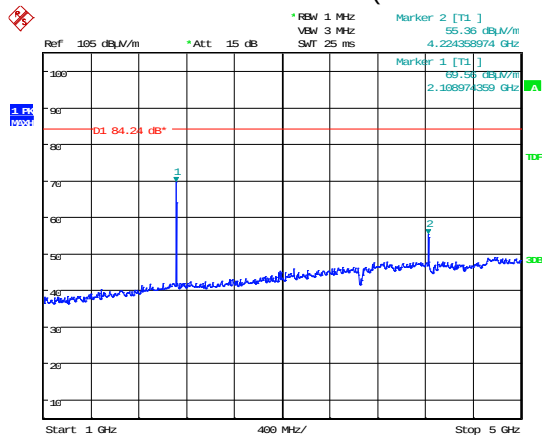
4 – 1930-1995MHz Top (15 GHz to 18 GHz).



Date: 7.DEC.2015 14:05:18

5 – 1930-1995MHz Top (18 GHz to 23 GHz).

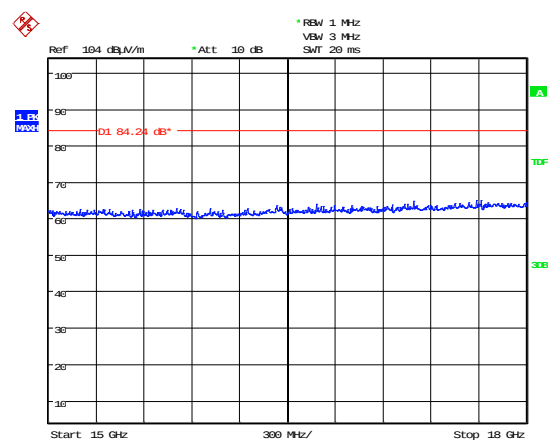
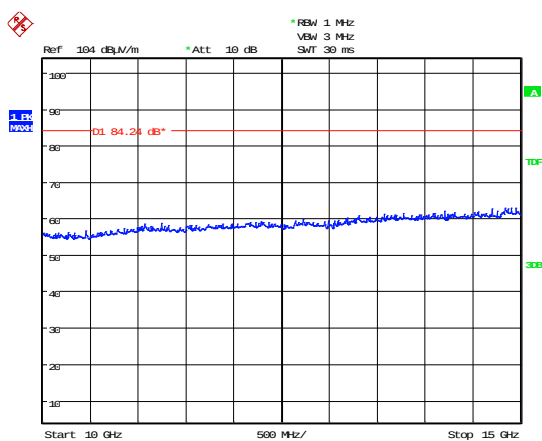
1 – 2110-2155MHz bottom (1 GHz to 5 GHz).



Date: 2.SEP.2015 15:58:59

2 – 2110-2155MHz bottom (5 GHz to 10 GHz).

Date: 21.MAR.2016 10:39:22

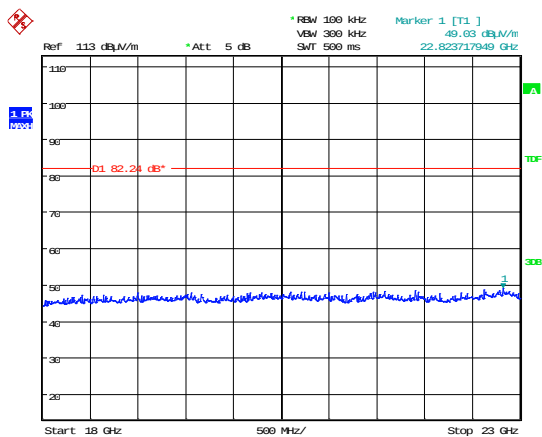


Date: 2.SEP.2015 16:00:31

3 – 2110-2155MHz bottom (10 GHz to 15 GHz).

Date: 2.SEP.2015 16:01:34

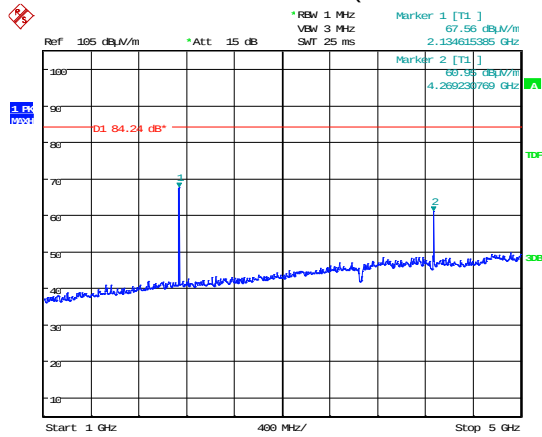
4 – 2110-2155MHz bottom (15 GHz to 18 GHz).



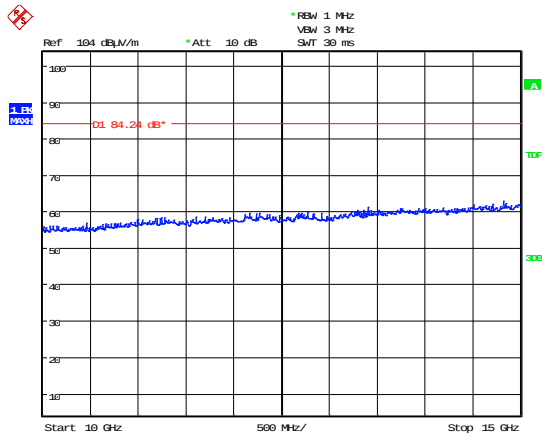
Date: 7.DEC.2015 14:24:40

4 – 2110-2155MHz bottom (18 GHz to 23 GHz).

1 – 2110-2155MHz Mid (1 GHz to 5 GHz).

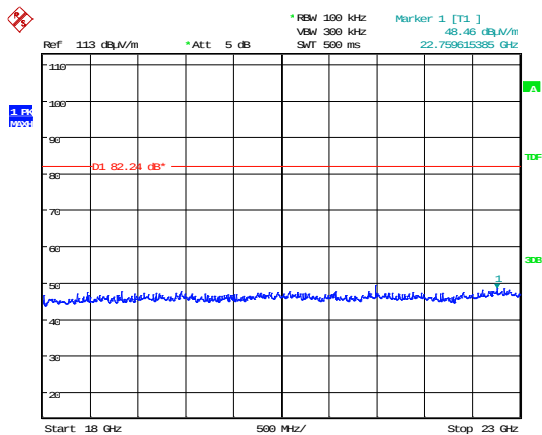


Date: 21.MAR.2016 10:41:20



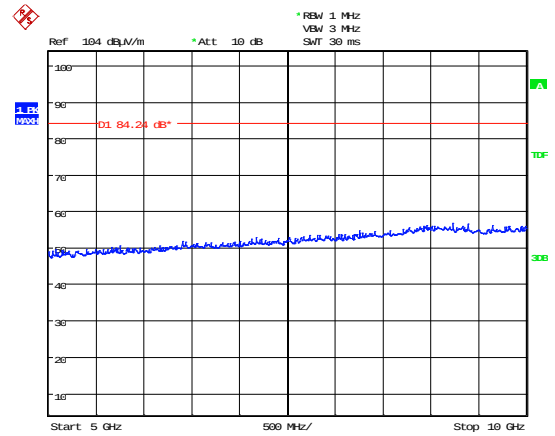
Date: 2.SEP.2015 16:34:15

3 – 2110-2155MHz Mid (10 GHz to 15 GHz).



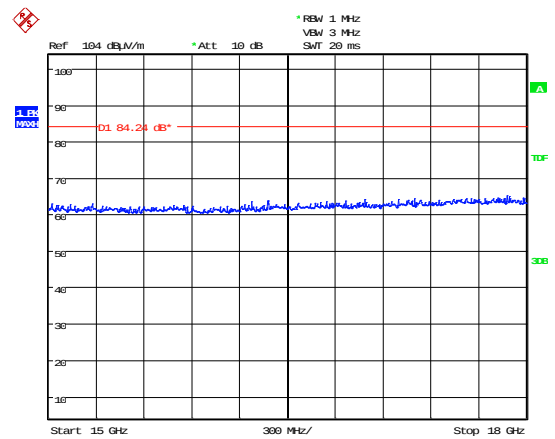
Date: 7.DEC.2015 14:26:49

5 – 2110-2155MHz Mid (18 GHz to 23 GHz).



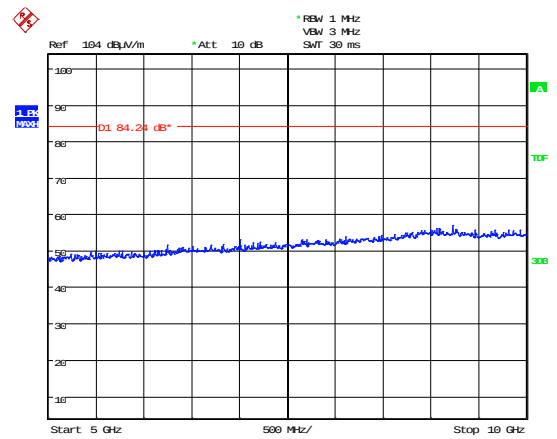
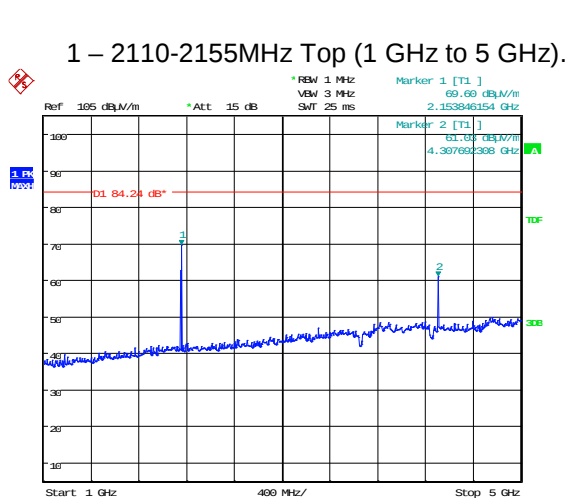
Date: 2.SEP.2015 16:33:16

2 – 2110-2155MHz Mid (5 GHz to 10 GHz).



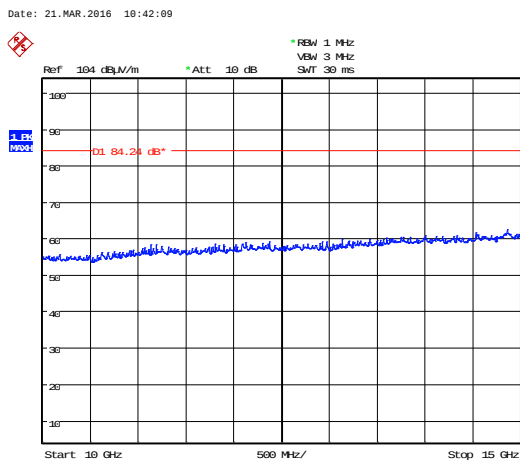
Date: 2.SEP.2015 16:35:21

4 – 2110-2155MHz Mid (15 GHz to 18 GHz).



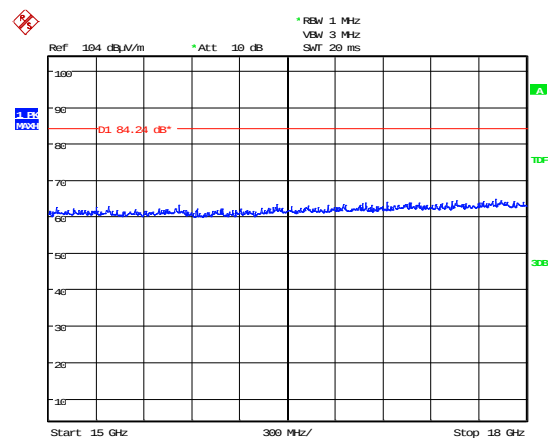
Date: 2.SEP.2015 16:37:41

2 – 2110-2155MHz Top (5 GHz to 10 GHz).



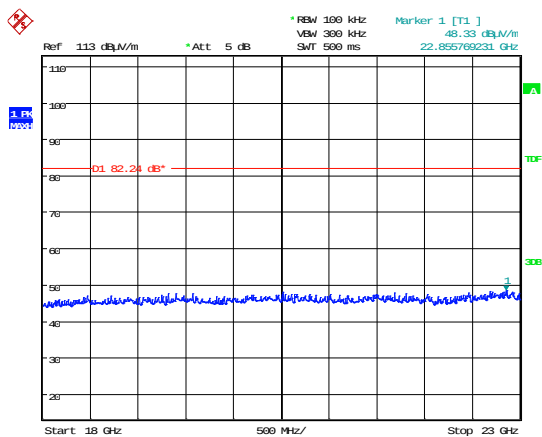
Date: 2.SEP.2015 16:38:28

3 – 2110-2155MHz Top (10 GHz to 15 GHz).



Date: 2.SEP.2015 16:38:58

4 – 2110-2155MHz Top (15 GHz to 18 GHz).



Date: 7.DEC.2015 14:27:21

5 – 2110-2155MHz Top (18 GHz to 23 GHz).

A8 Additional Part 90 testing SMR 862-869MHz

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.2 & 3.5. Part 2.1046 Part 90.635
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None

MSK 862-869MHz AGC threshold

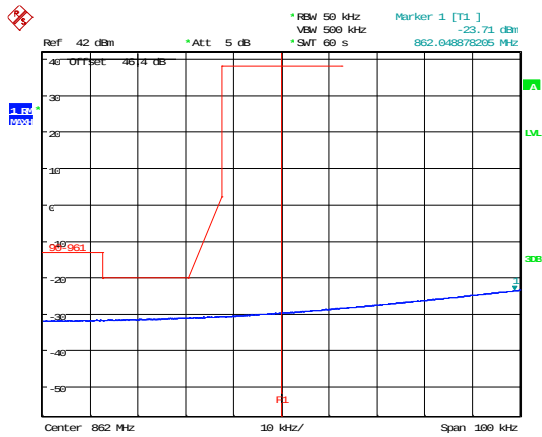
Downlink @ AGC Threshold						
Channel Centre Frequency (MHz)	Signal Generator Input Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
865.5	-0.40	0.45	-8.11	46.4	39.14	38.29

MSK 862-869MHz output power and gain AGC +3dB

Downlink @ AGC + 3dB Threshold						
Channel Centre Frequency (MHz)	Signal Generator Input Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
865.5	2.60	0.45	-8.10	46.40	36.15	38.30

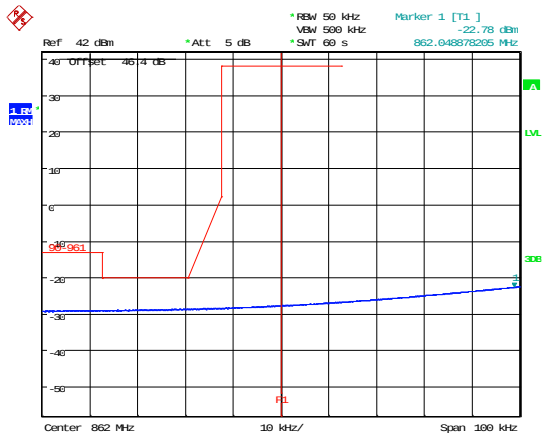
Test Details:	
Measurement standard	part 90.691 Part 2.1051
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None

Bottom LTE AGC



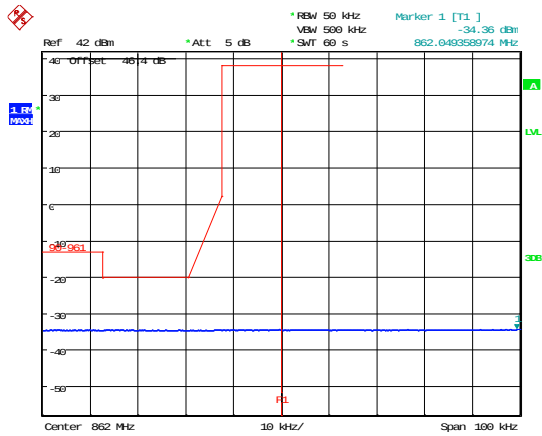
Date: 23.JUN.2016 10:58:07

Bottom LTE AGC+3



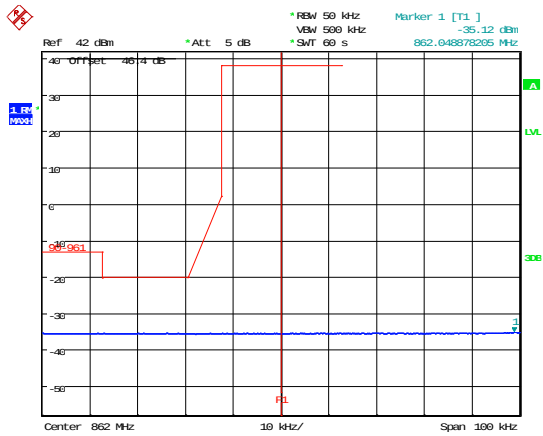
Date: 23.JUN.2016 11:02:23

Bottom WCDMA AGC



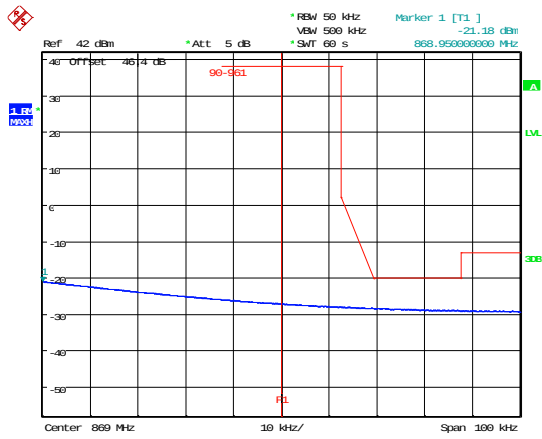
Date: 23.JUN.2016 10:52:19

Bottom WCDMA AGC+3

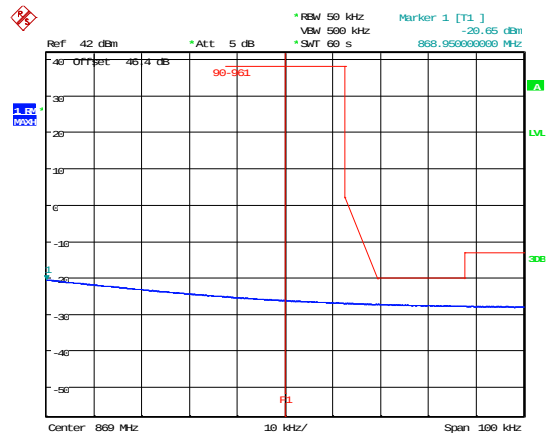


Date: 23.JUN.2016 10:53:44

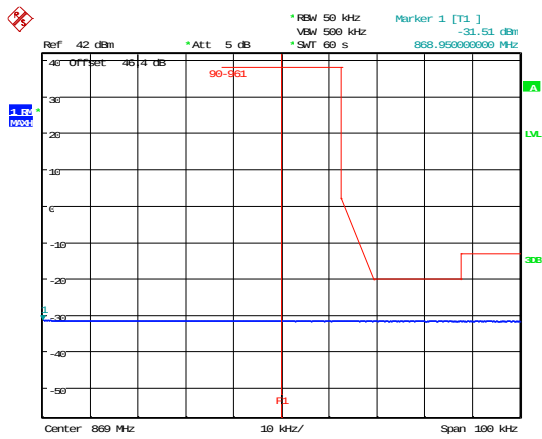
Top LTE AGC



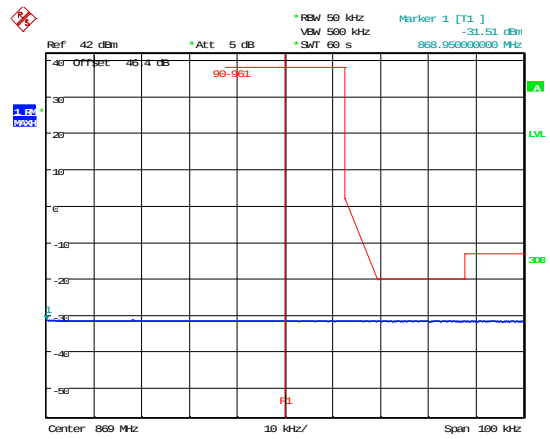
Top LTE AGC+3



Top WCDMA AGC

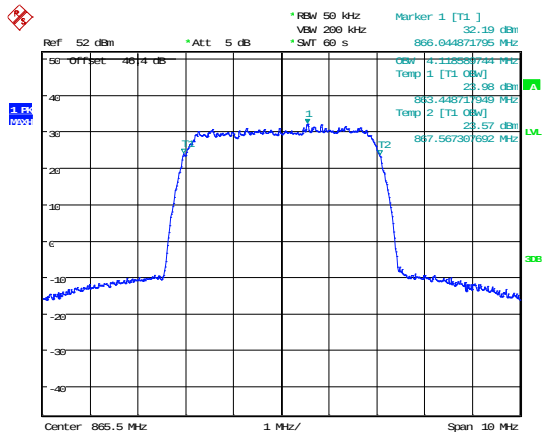


Top WCDMA AGC+3



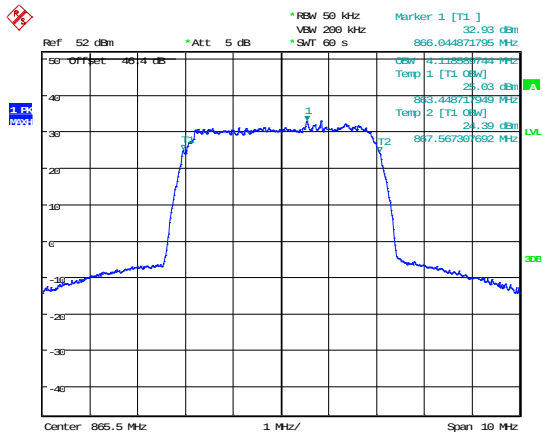
Test Details:	
Measurement standard	KDB935210 D05 Clause 3.2 & 3.5. Part 2.1047,2.1049
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None

LTE AGC



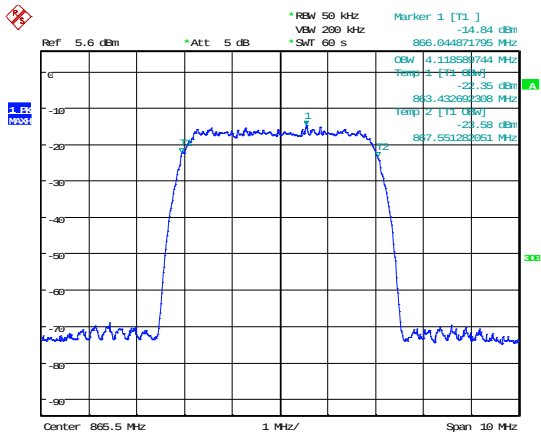
Date: 23.JUN.2016 11:26:27

LTE AGC+3



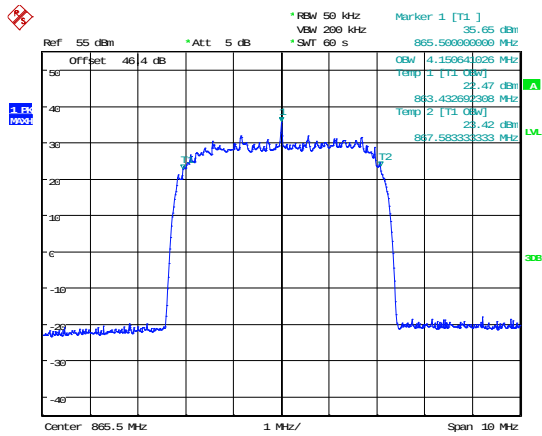
Date: 23.JUN.2016 11:28:20

LTE Signal Generator



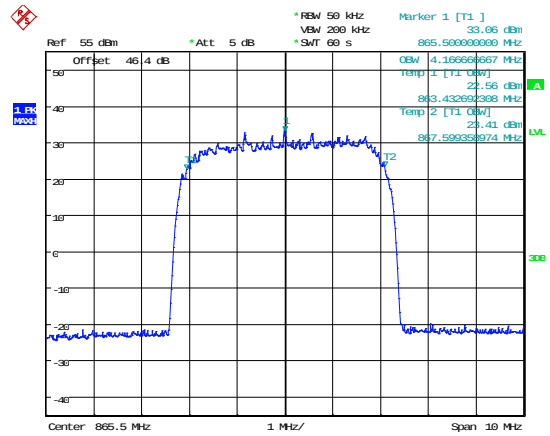
Date: 23.JUN.2016 11:32:23

WCDMA AGC



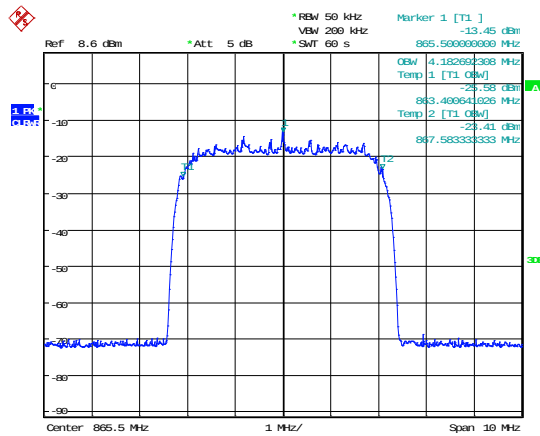
Date: 23.JUN.2016 11:36:40

WCDMA AGC+3



Date: 23.JUN.2016 11:38:02

WCDMA Signal Generator



Date: 23.JUN.2016 11:41:16

Modulation	F1(MHz)	f1(MHz)	99%OCBW(MHz)
5MHz LTE AGC	863.448717	867.567307	4.11
5MHz LTE AGC+3	863.448717	867.567307	4.11
5MHz LTE Signal Generator	863.432692	867.551282	4.11
5MHz WCDMA AGC	863.432692	867.583333	4.15
5MHz WCDMA AGC+3	863.432692	867.583358	4.16
5MHz WCDMA Signal Generator	863.400641	867.583333	4.18

Appendix B:

Uplink Formal Emission Test Results

Abbreviations used in the tables in this appendix:

Spec	: Specification	ALSR	: Absorber Lined Screened Room
Mod	: Modification	OATS	: Open Area Test Site
		ATS	: Alternative Test Site
EUT	: Equipment Under Test		
SE	: Support Equipment	Ref	: Reference
		Freq	: Frequency
L	: Live Power Line		
N	: Neutral Power Line	MD	: Measurement Distance
E	: Earth Power Line	SD	: Spec Distance
Pk	: Peak Detector	Pol	: Polarisation
QP	: Quasi-Peak Detector	H	: Horizontal Polarisation
Av	: Average Detector	V	: Vertical Polarisation
CDN	: Coupling & decoupling network		

B1 AGC Threshold

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.2 Part 2.1046
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None
EUT set up	Refer to Appendix C

698-716MHz

Uplink @ AGC Threshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
707.0	MSK	-65.20	0.37	-32.40	6.3	39.43	-26.14
707.0	AGWN	-66.90	0.37	-34.70	6.3	38.83	-28.44

776-787MHz

Uplink @ AGC Threshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
781.50	MSK	-65.00	0.50	-32.80	6.3	6.20	-26.46
781.50	AGWN	-66.30	0.50	-34.70	6.3	6.20	-28.36

824-849MHz

Uplink @ AGC Threshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
833.0	MSK	-61.20	0.41	-35.20	6.4	6.20	-28.80
833.0	AGWN	-62.90	0.41	-37.00	6.4	6.20	-30.60

1850-1915MHz

Uplink @ AGC Threshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
1882.500	MSK	-58.20	0.74	-35.80	6.6	29.75	-29.19
1882.500	AGWN	-60.90	0.74	-38.50	6.6	29.75	-31.89

1710-1755MHz

<i>Uplink @ AGC Threshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
1732.50	AGWN	-61.50	0.66	-36.60	6.6	32.17	-29.99

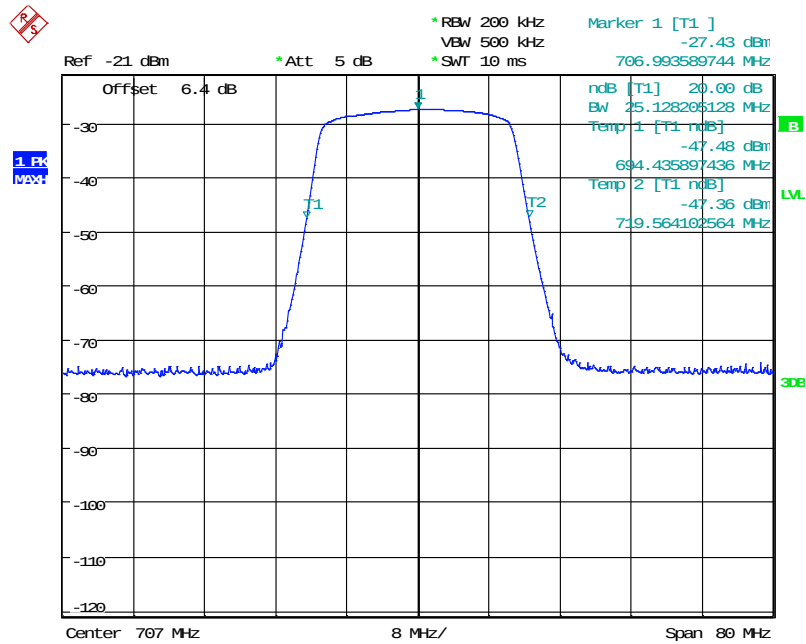
Test method used KDB935210 D05 clause 3.2

B2 EUT out-of-band rejection

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.3
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None
EUT set up	Refer to Appendix C

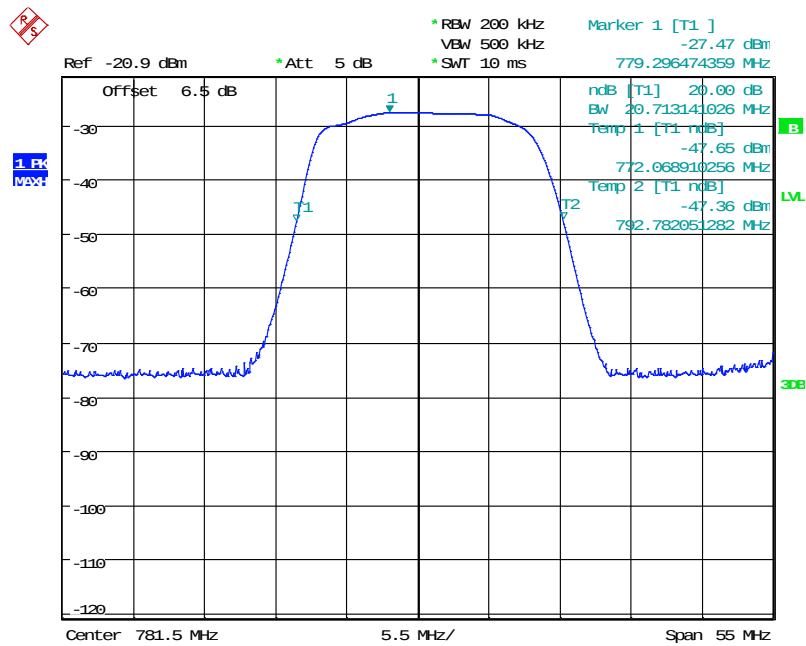
Frequency MHz	F0	FI MHz	Fh MHz	20 dB Bandwidth
707.00	706.993589	694.435897	719.654102	25.128MHz
781.50	779.296474	772.068910	792.782051	20.713MHz
833.00	828.128205	812.743589	852.743589	40.00MHz
1882.5	1862.708333	1839.791667	1918.958333	79.166MHz
1732.50	1726.875000	1700.100000	1764.450000	64.350MHz

20dB bandwidth 707MHz



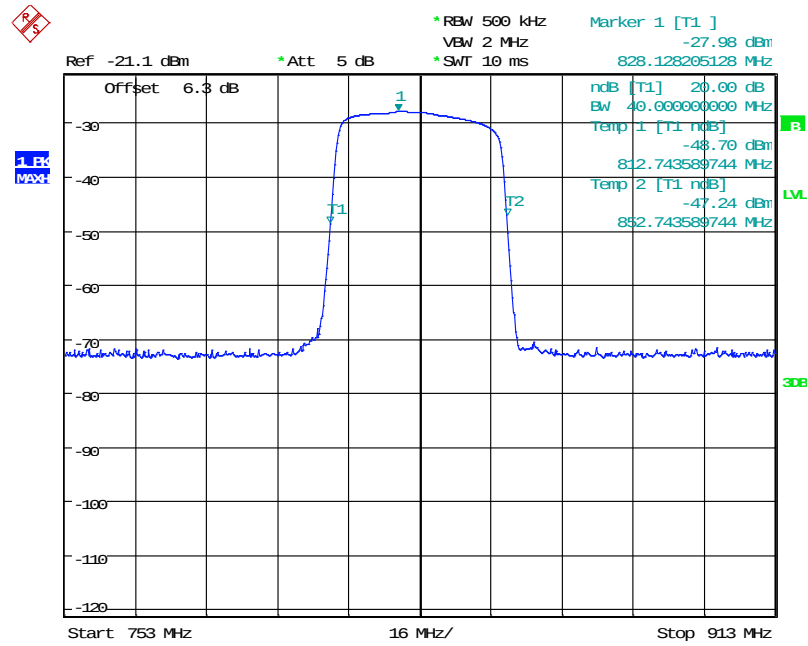
Date: 30.JUL.2015 10:27:44

20dB bandwidth 776-787MHz



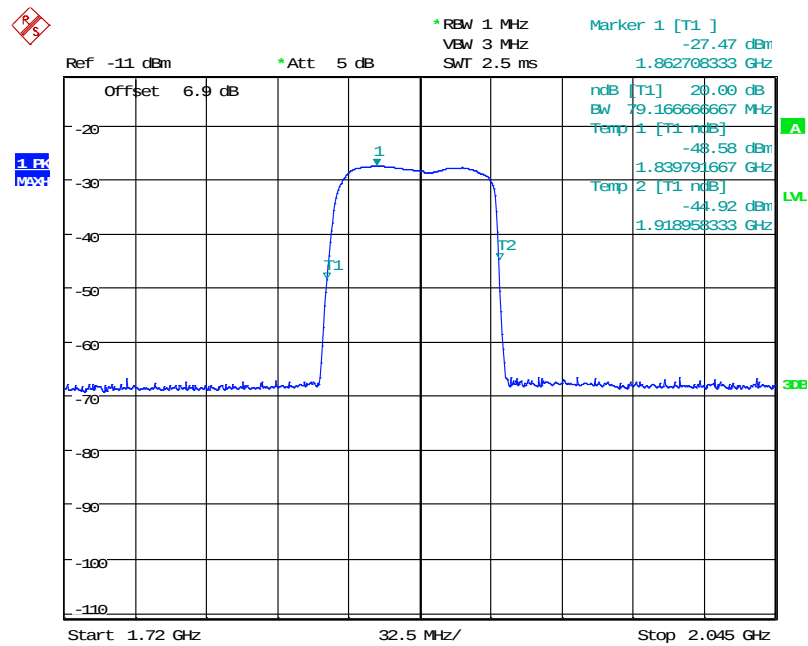
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20dB bandwidth 817-849MHz



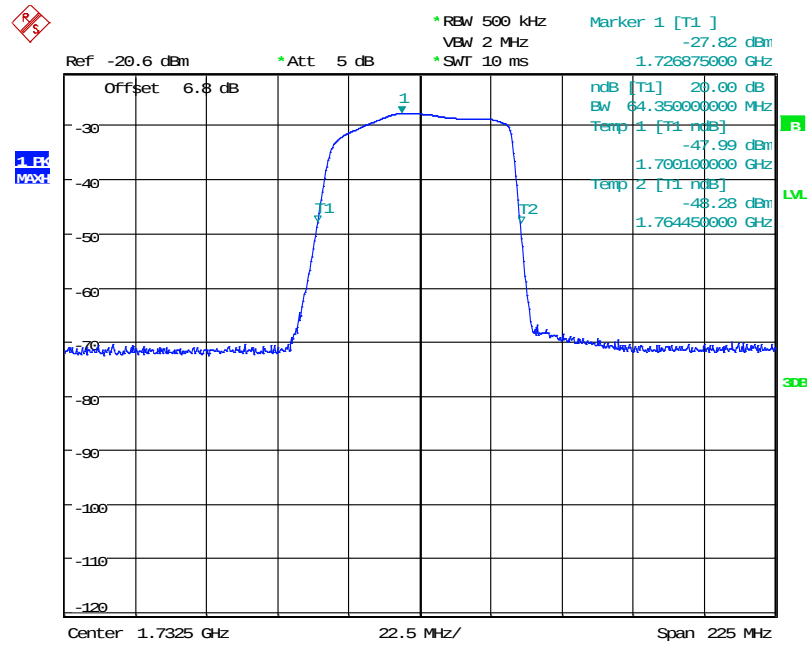
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20dB bandwidth 1850-1915MHz



Date: 2.DEC.2015 10:14:21

20dB bandwidth 1710-1755MHz

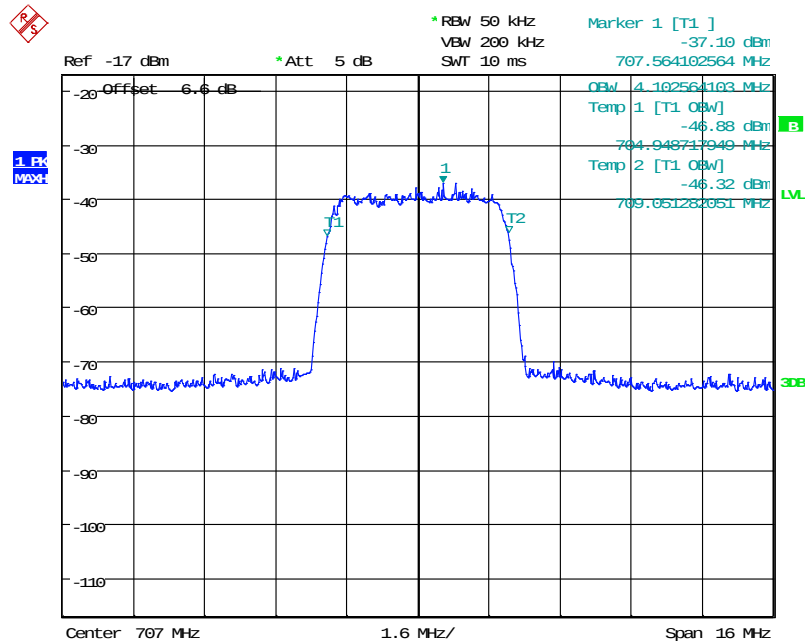


Date: 30.JUL.2015 11:51:33

B3 EUT input-versus-output signal comparison

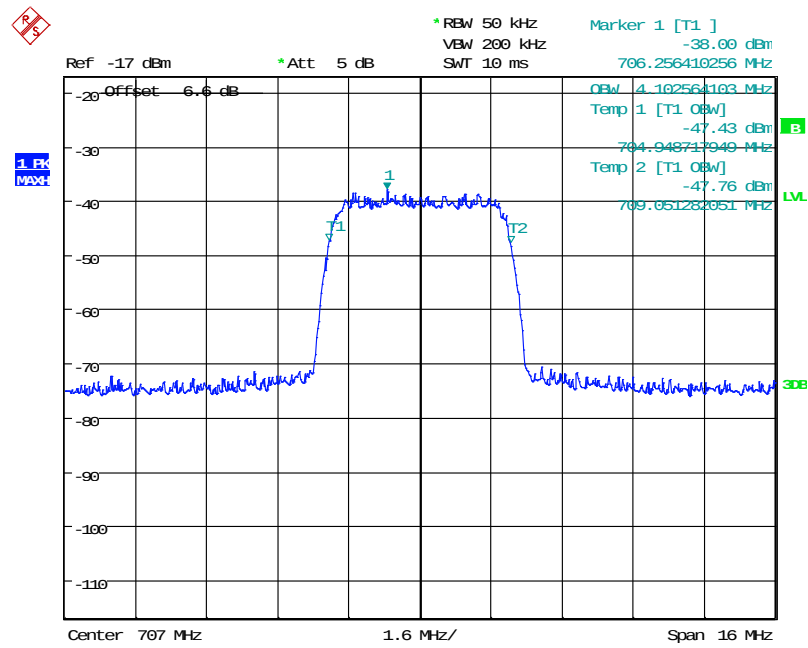
Test Details:	
Measurement standard	KDB935210 D05 Clause 3.4 Part 2.1047 2.1049
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None
EUT set up	Refer to Appendix C

698-716MHz AWGN $\leq$ AGC



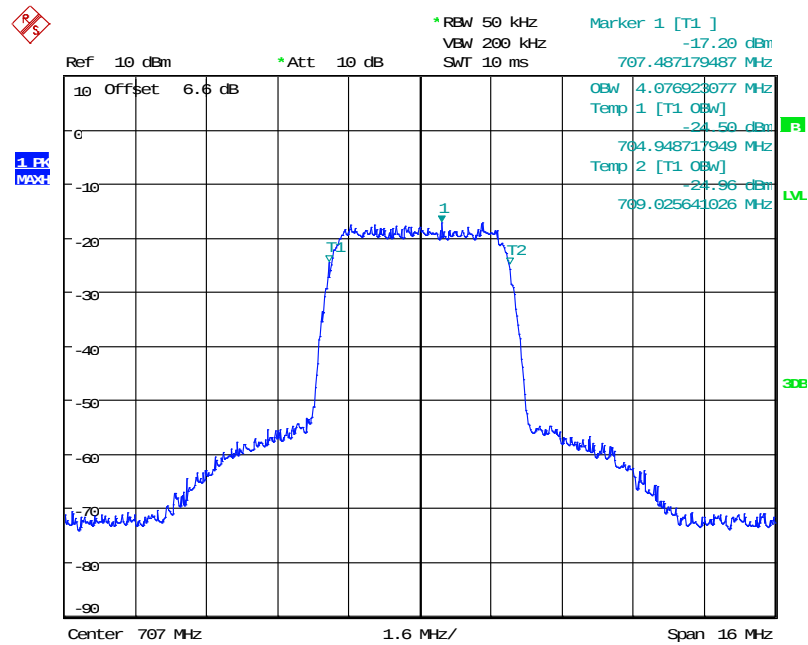
Date: 24.NOV.2015 16:04:52

698-716MHz AWGN 3dB above AGC



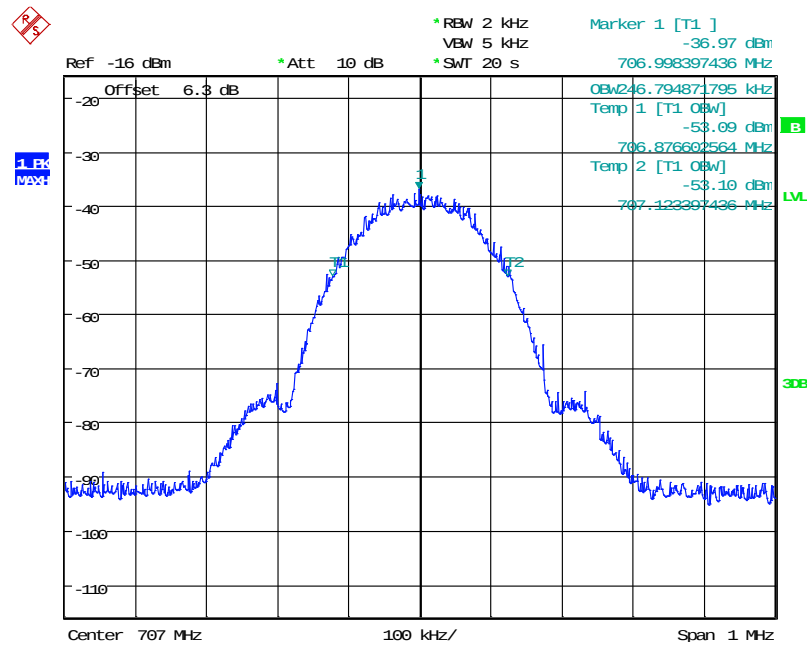
Date: 24.NOV.2015 16:05:24

698-716MHz AWGN Signal Generator only



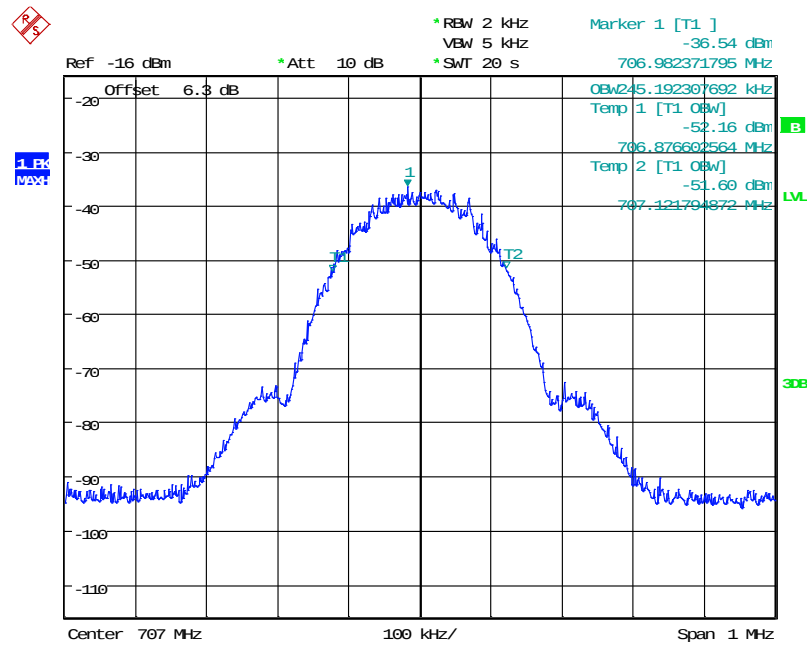
Date: 24.NOV.2015 16:20:05

698-716MHz MSK ≤ AGC



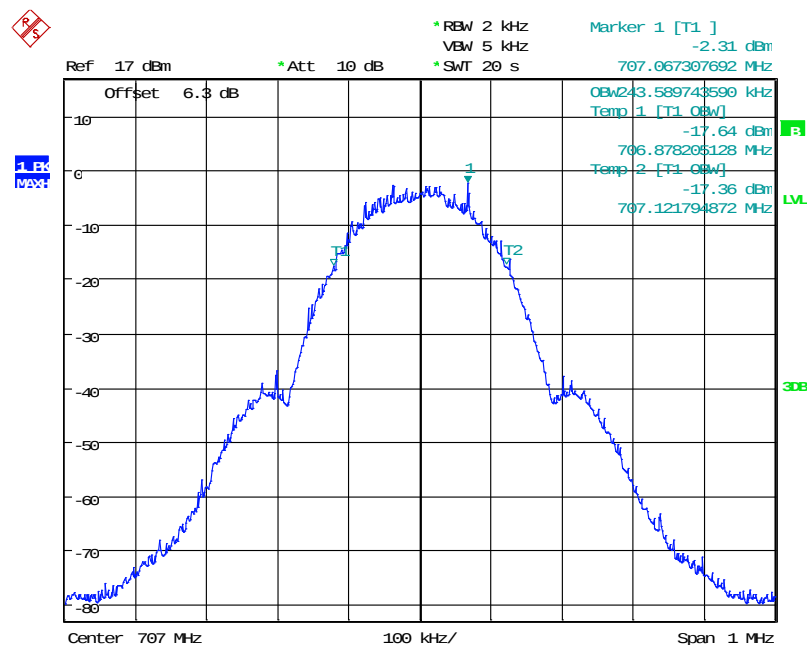
Date: 2.OCT.2015 14:45:36

698-716MHz MSK 3dB above AGC



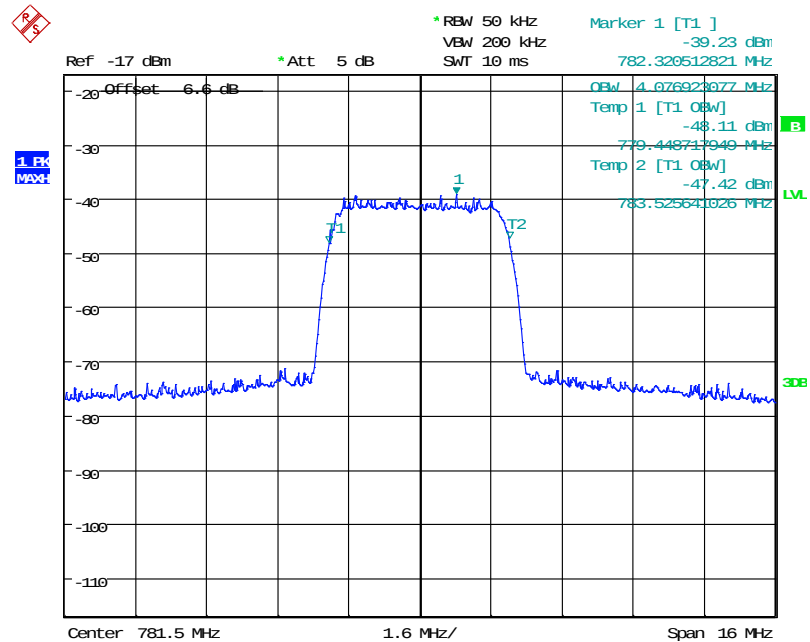
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698-716MHz AWGN Signal Generator only



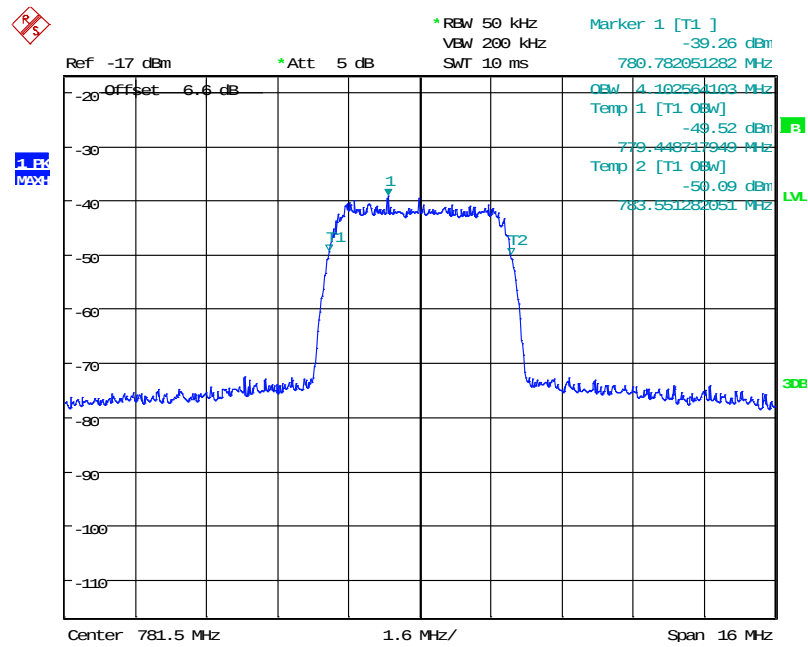
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776-787MHz AWGN ≤ AGC



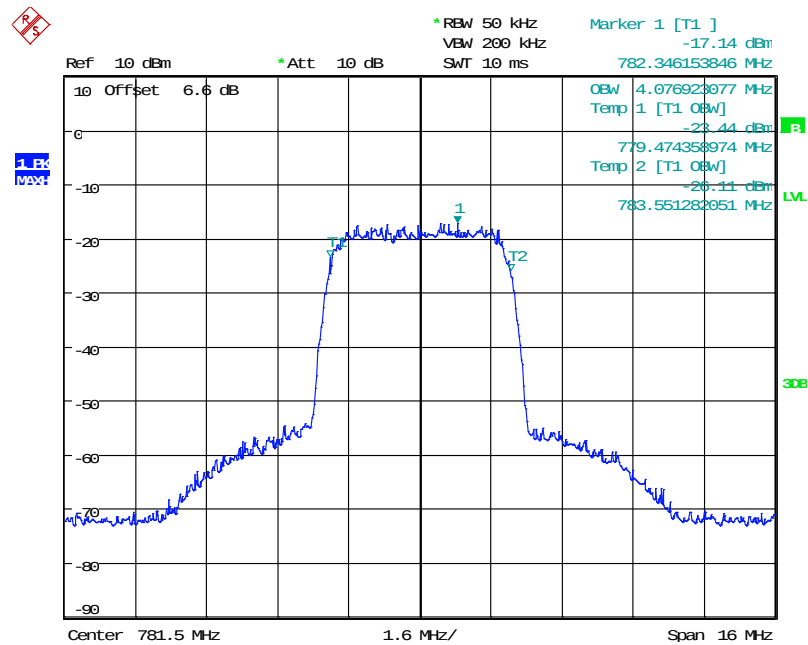
Date: 24.NOV.2015 16:08:22

776-787MHz AWGN 3dB above AGC



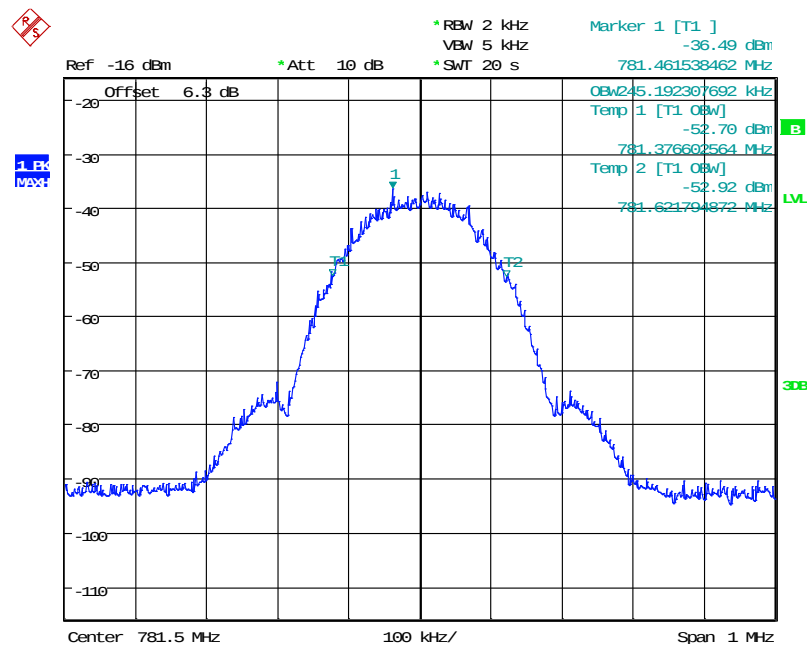
Date: 24.NOV.2015 16:09:03

776-787MHz AWGN Signal Generator only



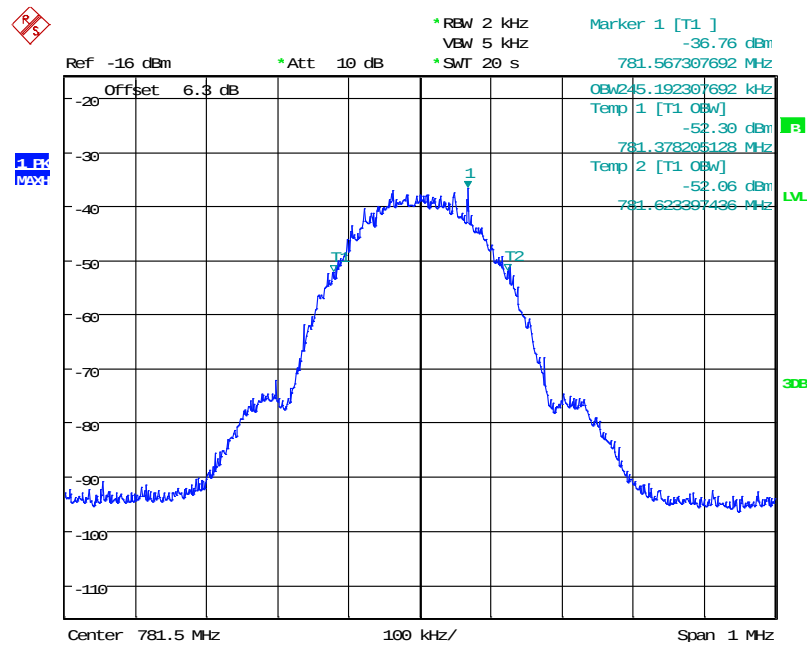
Date: 24.NOV.2015 16:21:20

776-787MHz MSK ≤ AGC



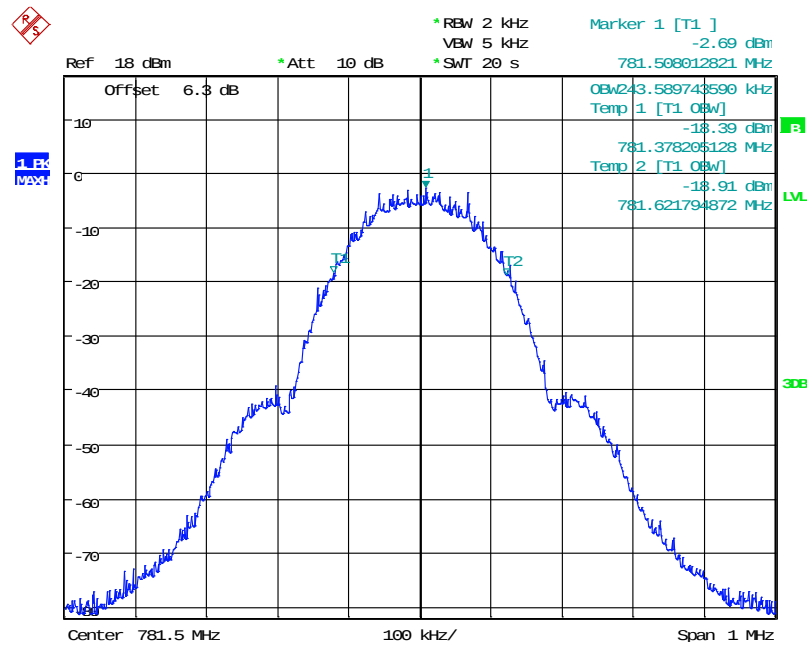
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776-787MHz MSK 3dB above AGC



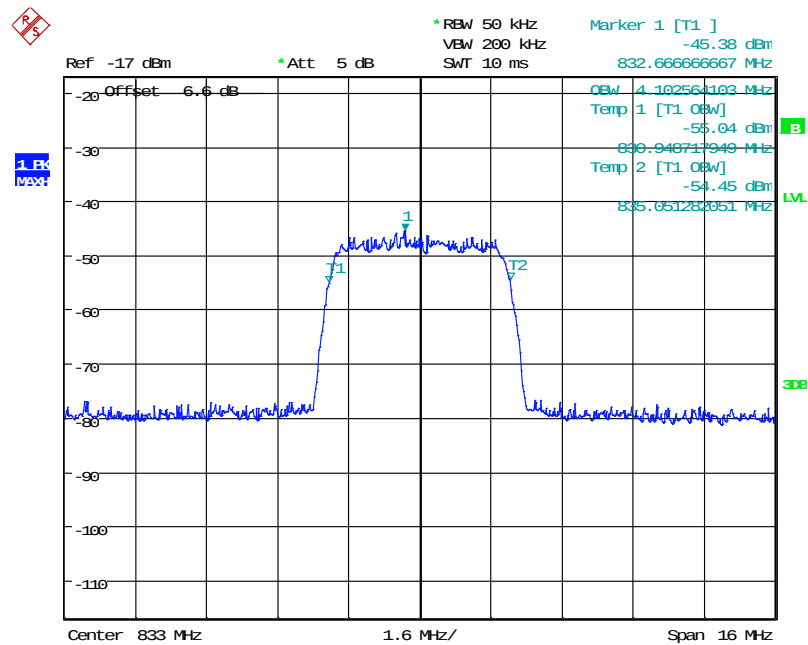
Date: 2.OCT.2015 16:11:09

776-787MHz MSK Signal Generator only



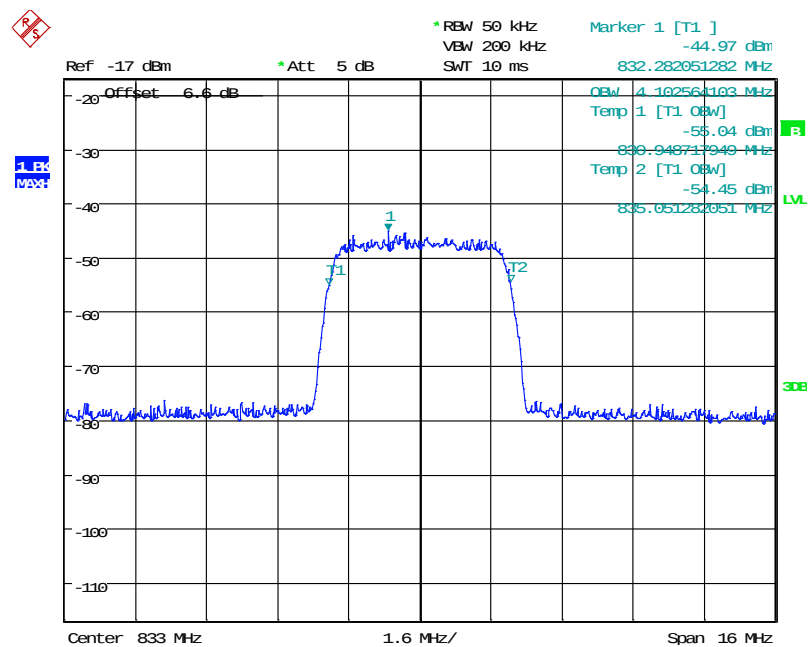
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824-849MHz AWGN ≤ AGC



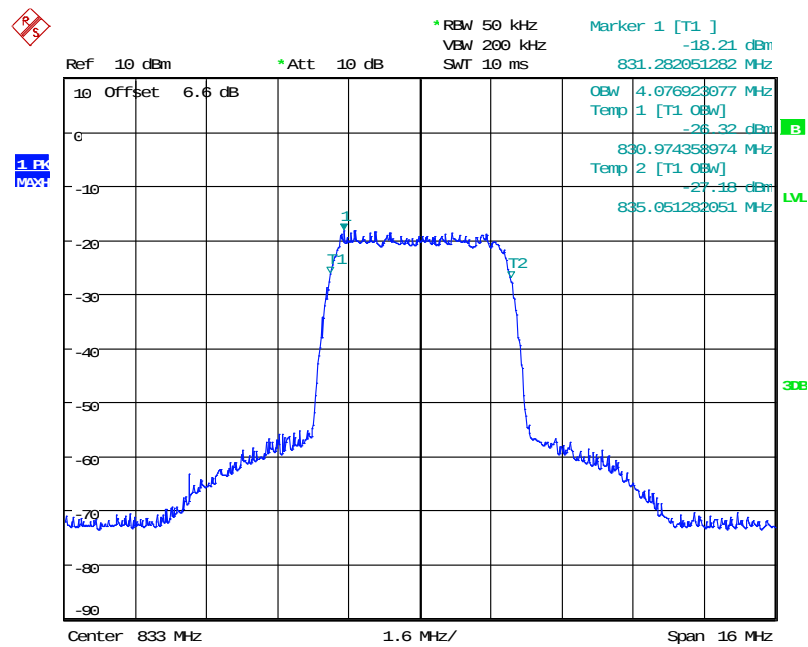
Date: 24.NOV.2015 16:15:11

824-849MHz AWGN 3dB above AGC



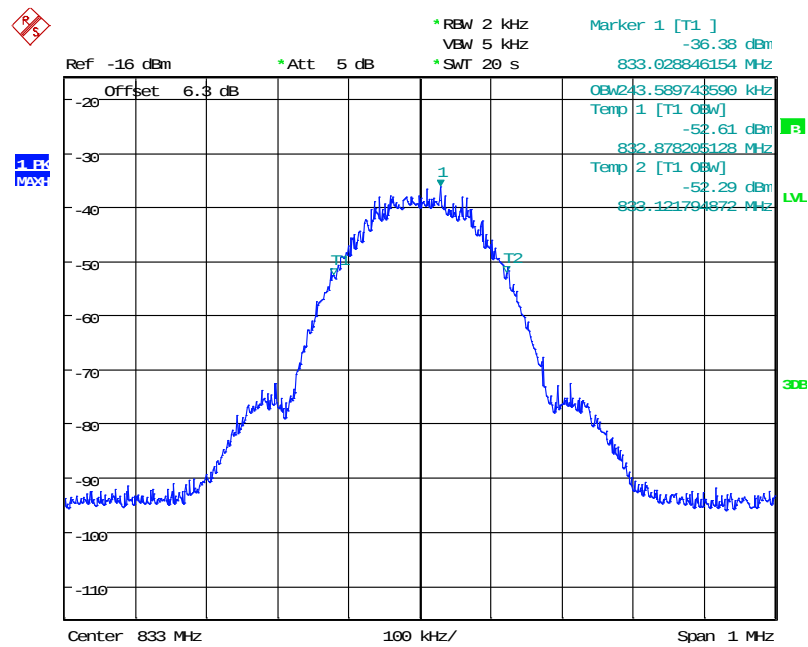
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824-849MHz AWGN Signal Generator only



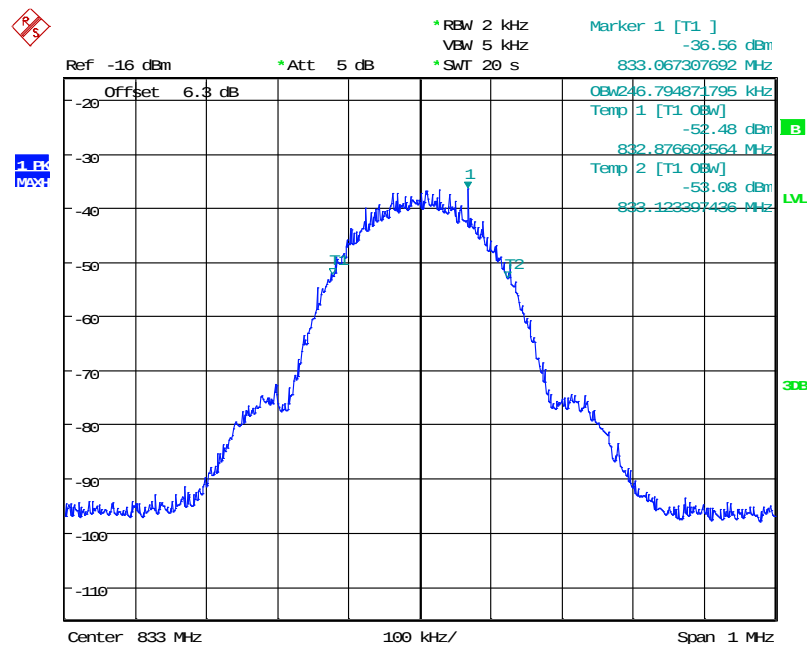
Date: 24.NOV.2015 16:19:02

824-849MHz MSK ≤ AGC



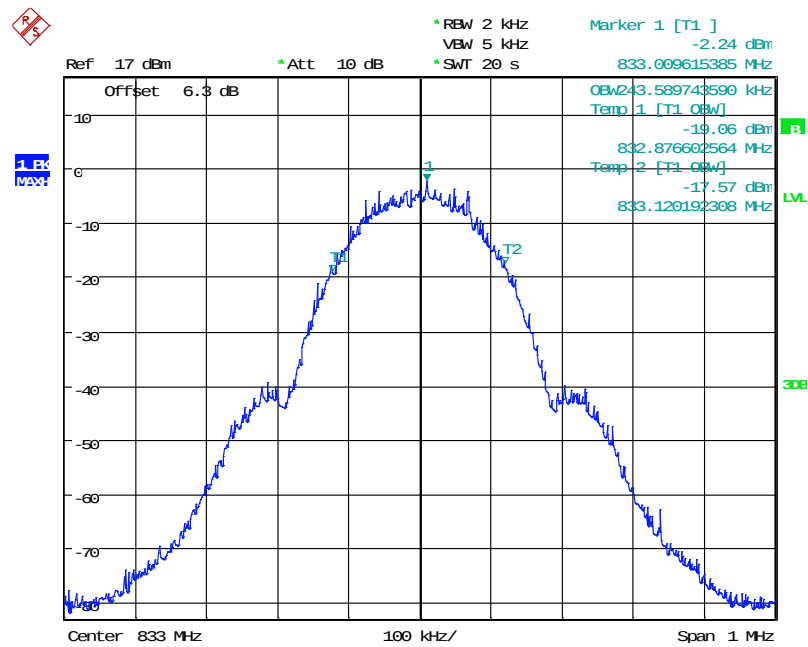
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824-849MHz MSK 3dB above AGC



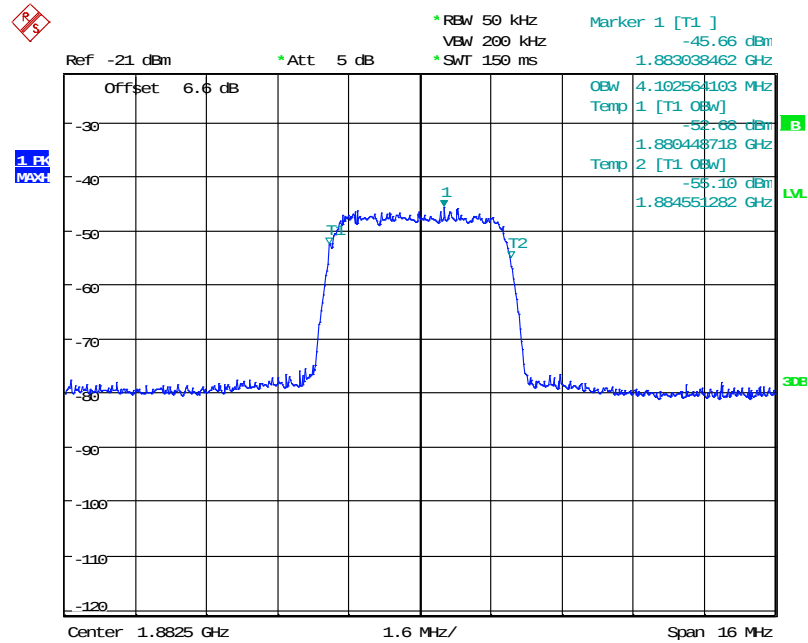
Date: 2.OCT.2015 14:32:09

824-849MHz MSK Signal Generator only



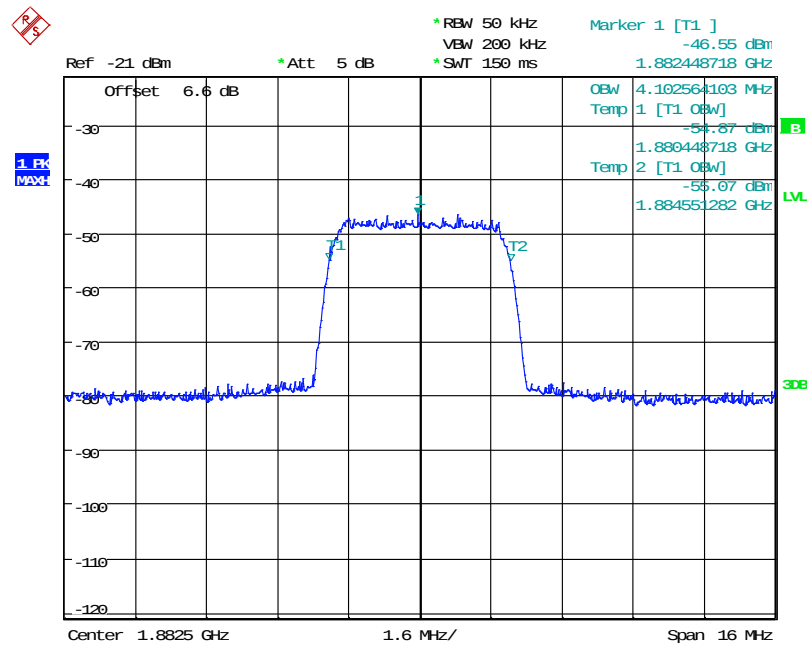
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1850-1915MHz AWGN ≤ AGC



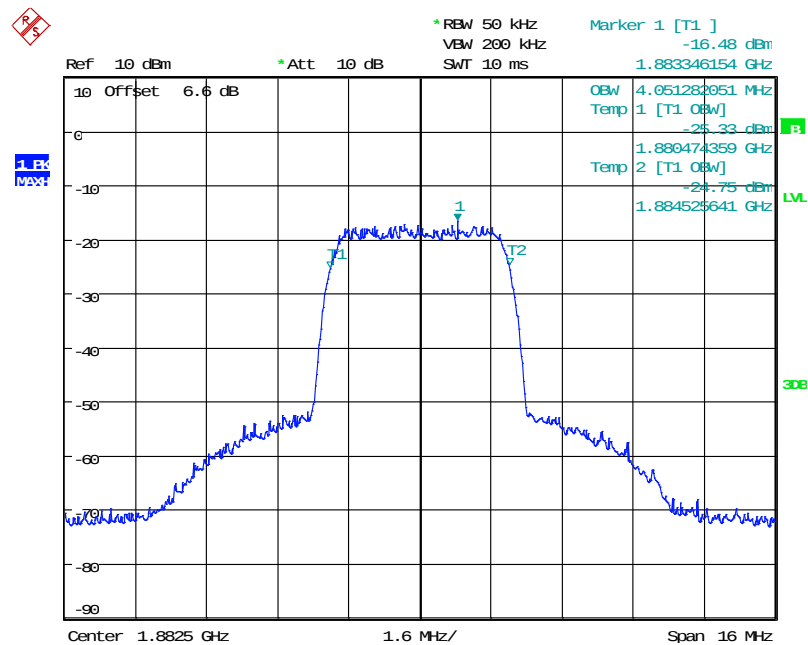
Date: 24.NOV.2015 16:01:12

1850-1915MHz AWGN 3dB above AGC



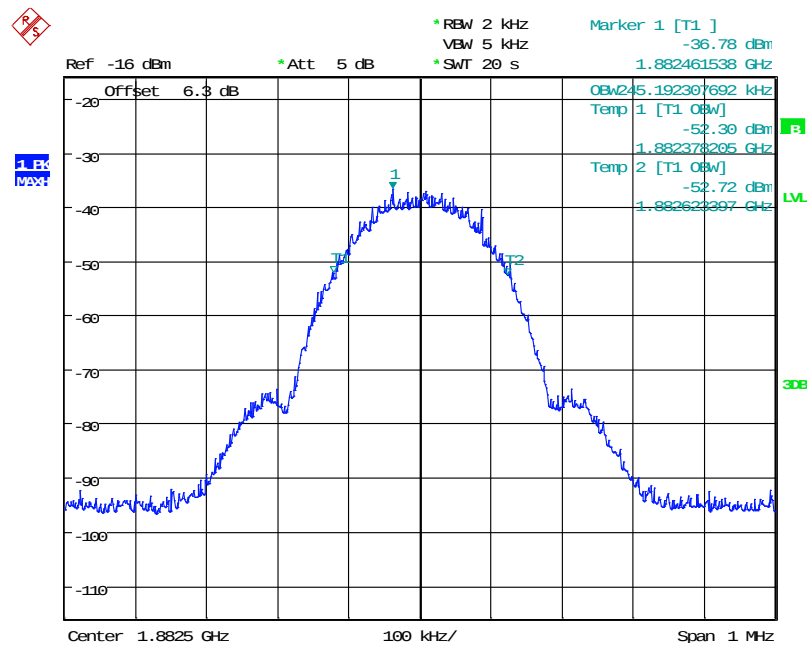
Date: 24.NOV.2015 16:01:32

1850-1915MHz AWGN Signal Generator only



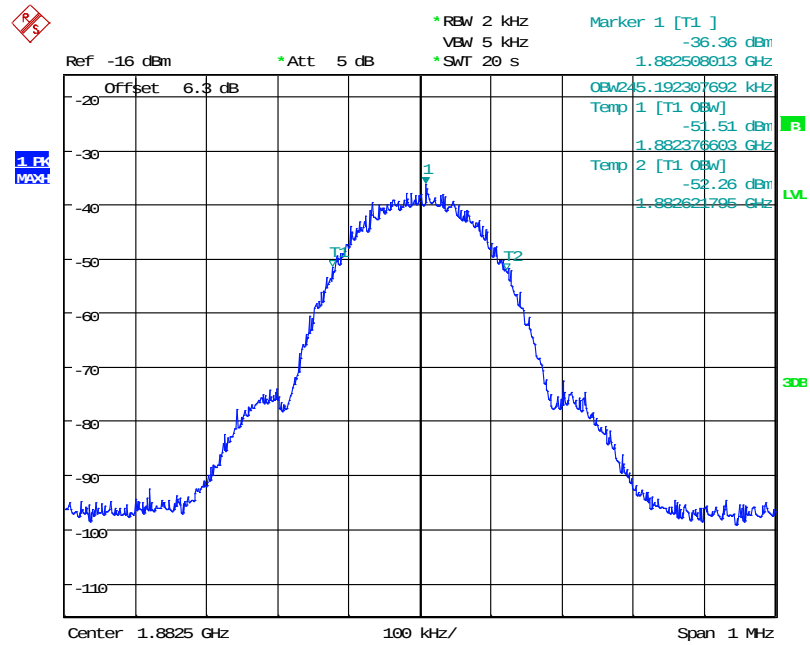
Date: 24.NOV.2015 16:22:57

1850-1915MHz MSK ≤ AGC



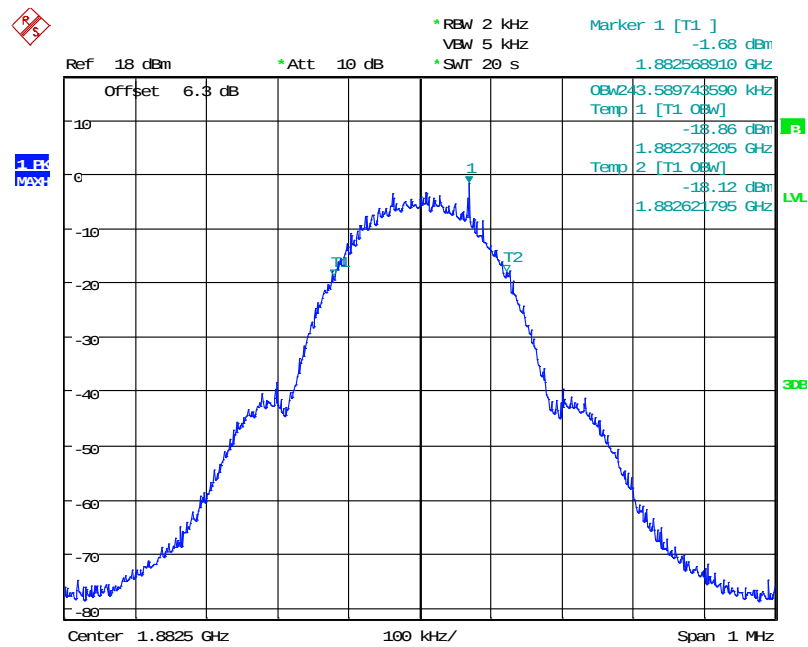
Date: 2.OCT.2015 16:24:36

1850-1915MHz MSK 3dB above AGC



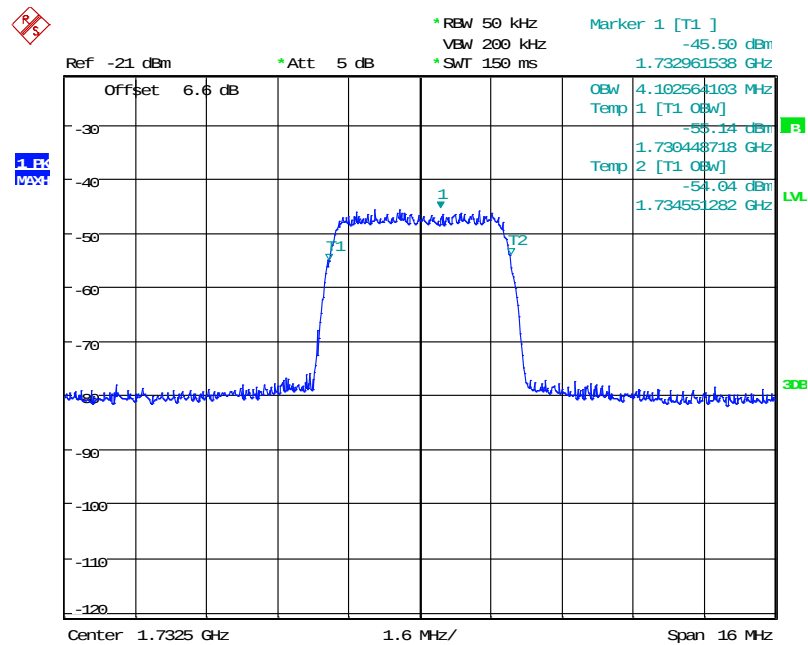
Date: 2.OCT.2015 16:25:58

1850-1915MHz MSK Signal Generator only



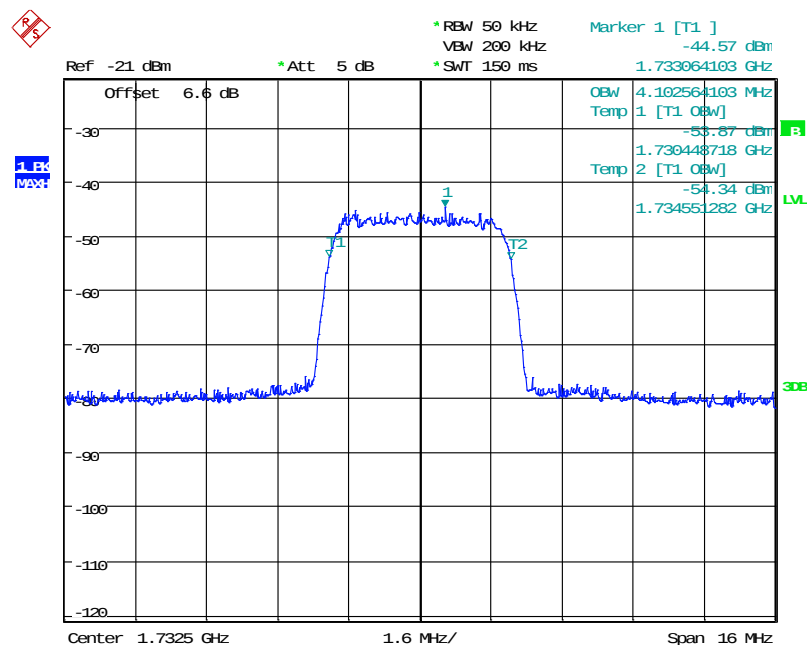
Date: 2.OCT.2015 16:28:50

1710-1755MHz AWGN ≤ AGC



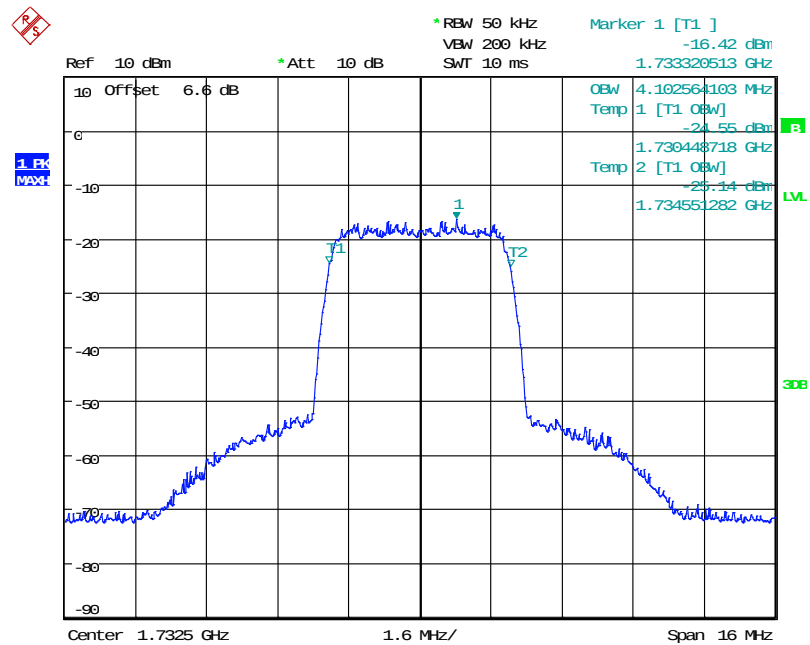
Date: 24.NOV.2015 15:50:34

1710-1755MHz AWGN 3dB above AGC



Date: 24.NOV.2015 15:51:03

1710-1755MHz AWGN Signal Generator only



Date: 24.NOV.2015 16:24:23

Bandwidth comparison results

Frequency Band MHz	Equipment under test or Signal Generator	Signal type	Bandwidth
698-716	Equipment	AWGN	4.102564MHz
698-716	Signal Generator	AWGN	4.076923MHz
698-716	Equipment	MSK	246.794871kHz
698-716	Signal Generator	MSK	243.589742kHz
776-787	Equipment	AWGN	4.076923MHz
776-787	Signal Generator	AWGN	4.076923MHz
776-787	Equipment	MSK	245.192307kHz
776-787	Signal Generator	MSK	243.589743kHz
817-849	Equipment	AWGN	4.102564MHz
817-849	Signal Generator	AWGN	4.076923MHz
817-849	Equipment	MSK	246.794871kHz
817-849	Signal Generator	MSK	243.589743kHz
1850-1915	Equipment	AWGN	4.102564MHz
1850-1915	Signal Generator	AWGN	4.051282MHz
1850-1915	Equipment	MSK	245.192307kHz
1850-1915	Signal Generator	MSK	243.589743kHz
1710-1755	Equipment	AWGN	4.102564MHz
1710-1755	Signal Generator	AWGN	4.102564MHz

B4 Mean output power and amplifier gain

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.5 Part 2.1046
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None
EUT set up	Refer to Appendix C

698-716MHz

Downlink @ AGC Threshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
707.0	MSK	-61.31	0.37	-32.20	6.3	35.78	-25.90
707.0	AGWN	-65.90	0.37	-33.60	6.3	38.97	-27.30

698-716MHz

Downlink @ AGC + 3dBThreshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
707.0	MSK	-58.31	0.37	-31.90	6.30	33.08	-25.60
707.0	AGWN	-62.90	0.37	-33.60	6.30	35.97	-27.30

776-787MHz

Downlink @ AGC Threshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
781.50	MSK	-59.39	0.50	-33.00	6.3	33.23	-26.66
781.50	AGWN	-66.30	0.50	-34.90	6.3	38.24	-28.56

776-787MHz

Downlink @ AGC + 3dBThreshold							
Channel Centre Frequency (MHz)	Modulation	Signal Generator output Level (dBm)	Input Cable Loss (dB)	Level at Spectrum Analyser (dBm)	Output Cable & Attenuator Loss (dB)	Gain (dB)	Conducted Output Power (dBm)
781.50	MSK	-56.39	0.50	-32.70	6.34	30.53	-26.36
781.50	AGWN	-63.30	0.50	-34.40	6.34	35.74	-28.06

824-849MHz

<i>Downlink @ AGC Threshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
833.0	MSK	-59.06	0.41	-35.20	6.4	30.67	-28.80
833.0	AGWN	-63.00	0.41	-37.00	6.4	32.81	-30.60

824-849MHz

<i>Downlink @ AGC + 3dBThreshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
833.0	MSK	-56.06	0.41	-34.90	6.40	27.97	-28.50
833.0	AGWN	-60.00	0.41	-36.60	6.40	30.21	-30.20

1850-1915MHz

<i>Downlink @ AGC Threshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
1882.500	MSK	-59.80	0.74	-36.60	6.7	30.64	-29.90
1882.500	AGWN	-61.40	0.74	-37.90	6.7	30.94	-31.20

1850-1915MHz

<i>Downlink @ AGC + 3dBThreshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
1882.500	MSK	-56.80	0.74	-36.20	6.70	28.04	-29.50
1882.500	AGWN	-58.40	0.74	-37.00	6.70	28.84	-30.30

1710-1755MHz

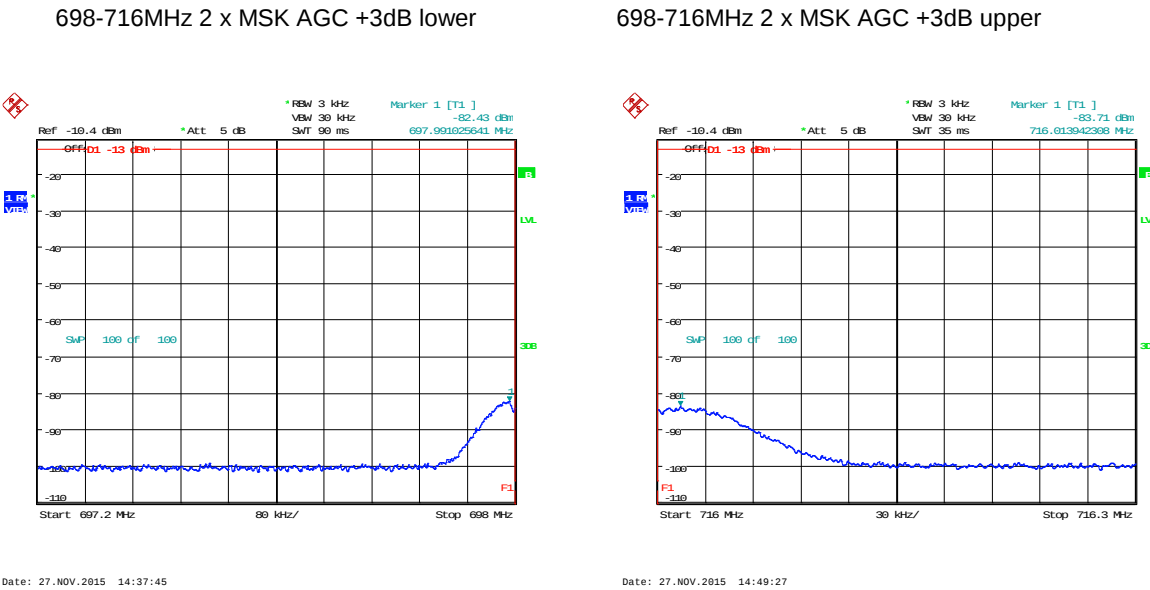
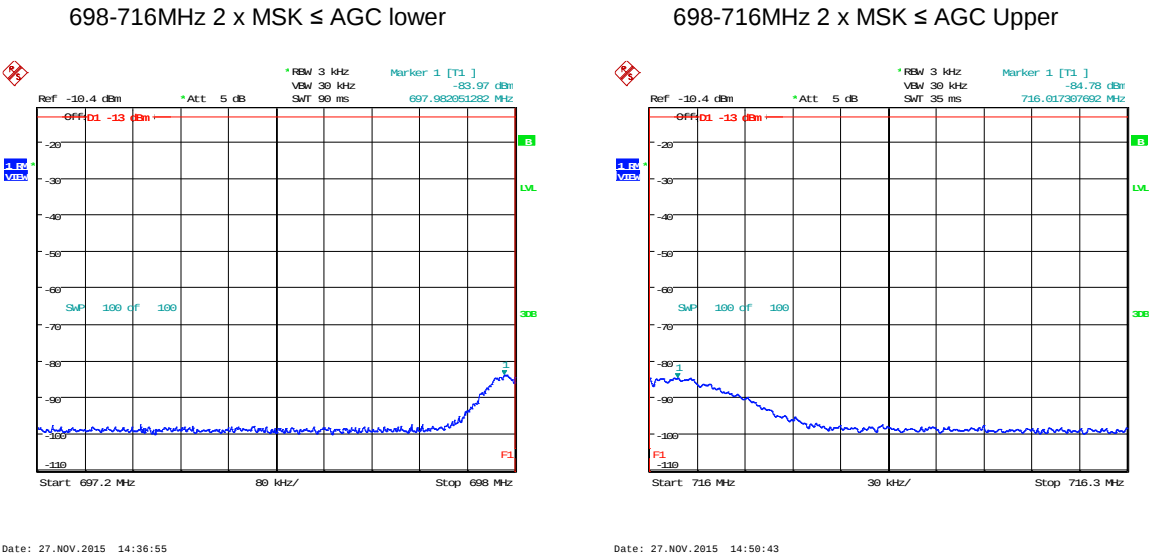
<i>Downlink @ AGC Threshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
1732.50	AGWN	-61.70	0.66	-37.00	6.6	31.97	-30.39

1710-1755MHz

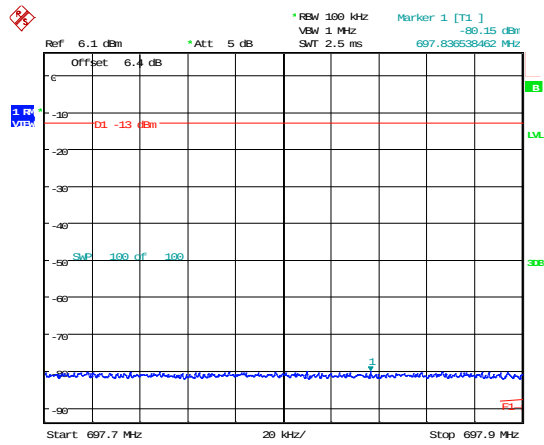
<i>Downlink @ AGC + 3dBThreshold</i>							
<i>Channel Centre Frequency (MHz)</i>	<i>Modulation</i>	<i>Signal Generator output Level (dBm)</i>	<i>Input Cable Loss (dB)</i>	<i>Level at Spectrum Analyser (dBm)</i>	<i>Output Cable & Attenuator Loss (dB)</i>	<i>Gain (dB)</i>	<i>Conducted Output Power (dBm)</i>
1732.50	AGWN	-58.70	0.66	-36.60	6.61	29.37	-29.99

B5 EUT out-of-band/block emissions

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.6 Part 2.1051
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None
EUT set up	Refer to Appendix C

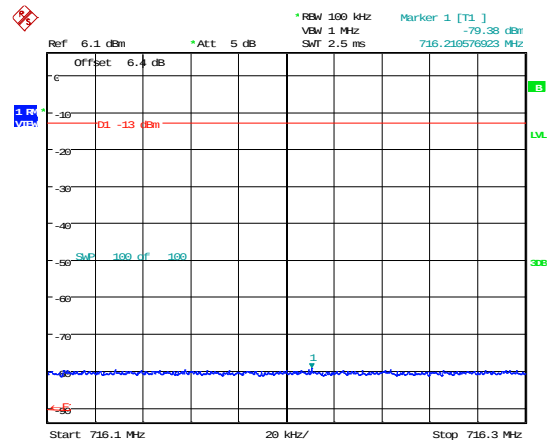


698-716MHz 2 x AWGN ≤ AGC lower



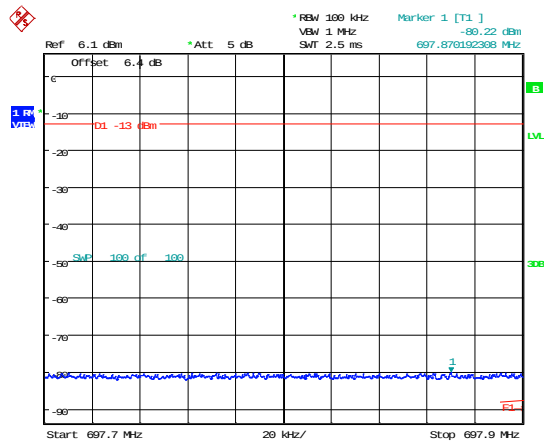
Date: 26.NOV.2015 14:35:53

698-716MHz 2 x AWGN ≤ AGC Upper



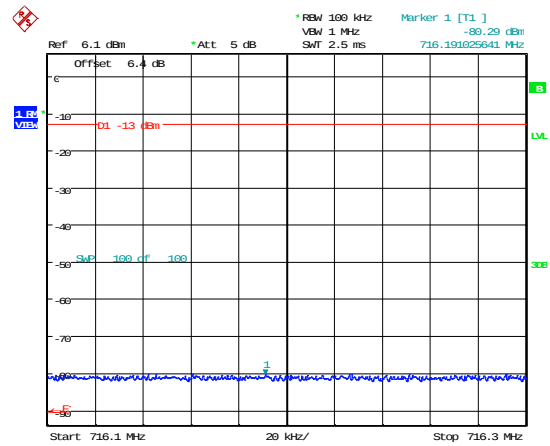
Date: 26.NOV.2015 14:59:25

698-716MHz 2 x AWGN AGC +3dB lower



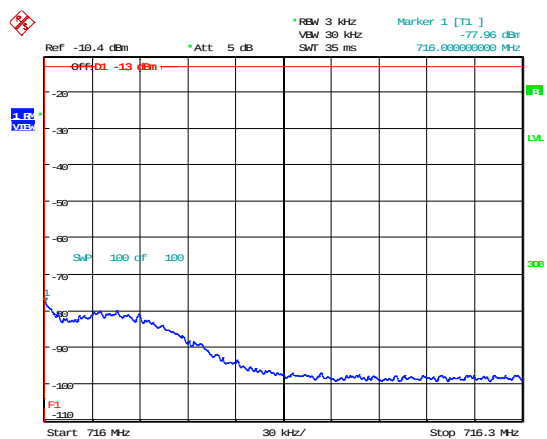
Date: 26.NOV.2015 14:36:33

698-716MHz 2 x AWGN AGC +3dB upper



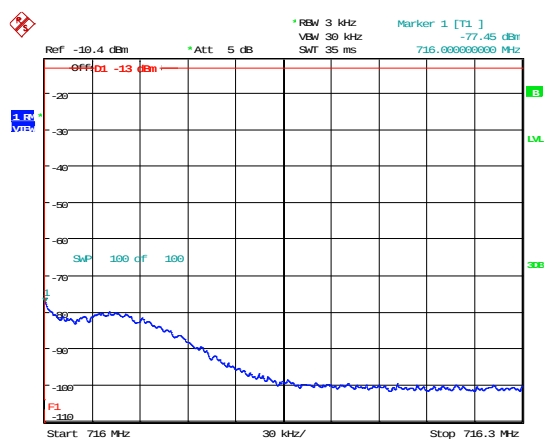
Date: 26.NOV.2015 14:58:41

698-716MHz 1 x MSK $\leq$ AGC Upper



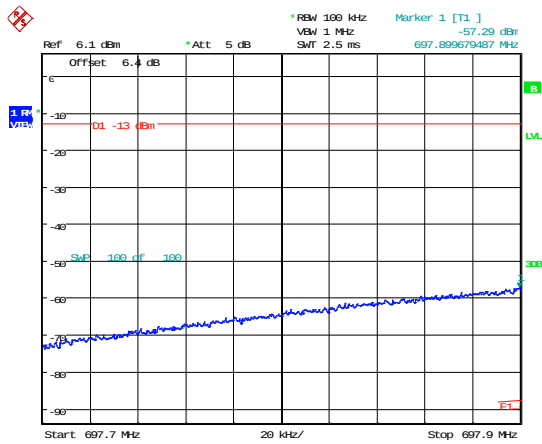
Date: 27.NOV.2015 14:43:04

698-716MHz 1 x MSK AGC +3dB upper



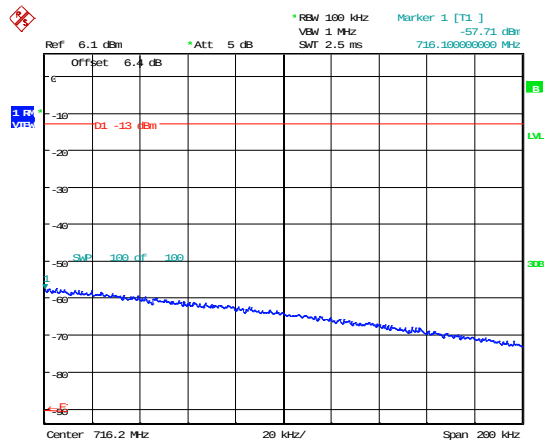
Date: 27.NOV.2015 14:43:37

698-716MHz 1 x AWGN ≤ AGC lower



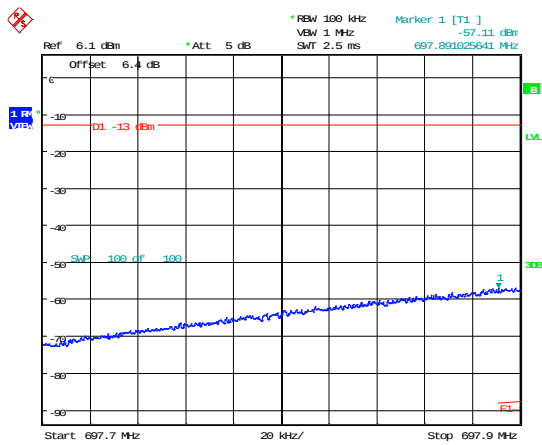
Date: 26.NOV.2015 15:36:48

698-716MHz 1 x AWGN ≤ AGC Upper



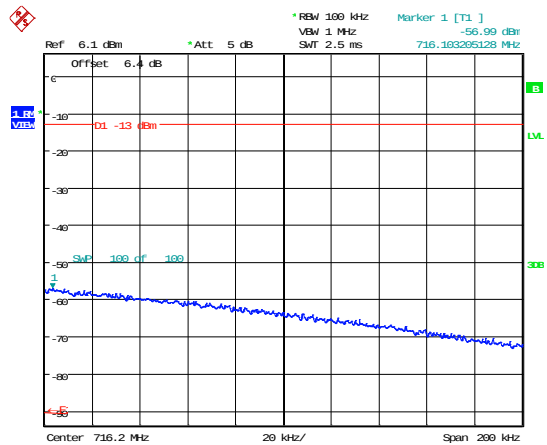
Date: 26.NOV.2015 15:31:14

698-716MHz 1 x AWGN AGC +3dB lower



Date: 26.NOV.2015 15:37:08

698-716MHz 1 x AWGN AGC +3dB upper



Date: 26.NOV.2015 15:31:38

*RBW 3 kHz
 VBW 30 kHz
 SWF 35 ms

Marker 1 [T1]
 -90.70 dBm
 787.06721538 MHz

Ref -10.4 dBm
 *Att 5 dB

OFF DL -13 dBm

1.54 Vrms

100
 100
 100

Start 787 MHz 30 kHz/ Stop 787.3 MHz

Ref -10.4 dBm *Att 5 dB

*RBW 3 kHz VSW 30 kHz SWT 35 ms

Marker 1 [T1] -85.06 dBm 775.987500000 MHz

Off 01 -13 dBm

1.6 Vrms

SWF 100 of 100

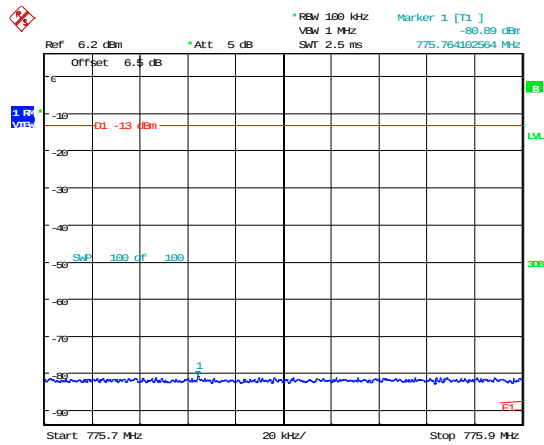
Start 775.75 MHz 30 kHz/ Stop 776 MHz

F1

The screenshot displays a spectrum analyzer interface. At the top, a red logo is in the upper left corner. The main display area shows a blue trace representing the signal spectrum, which is mostly flat at a noise floor level of approximately -100 dBm, with a slight rise at the lower frequency end. A red horizontal line is drawn across the top of the plot area at approximately -13 dBm. The vertical axis (Y-axis) is labeled 'dBm' and ranges from -110 to 0. The horizontal axis (X-axis) is labeled 'MHz' and ranges from 787 MHz to 787.3 MHz. A marker is placed on the trace at 787.010996154 MHz, with a value of -86.08 dBm. The text 'Marker 1 [T1.]' is displayed next to the marker. Other text on the screen includes 'Ref -10.4 dBm', '*Att 5 dB', '*BW 3 kHz', 'VM 30 kHz', 'SW 35 ms', and 'Start: 787 MHz 30 kHz/ Stop: 787.3 MHz'. A small red box with the number '1' is visible in the bottom left corner of the plot area.

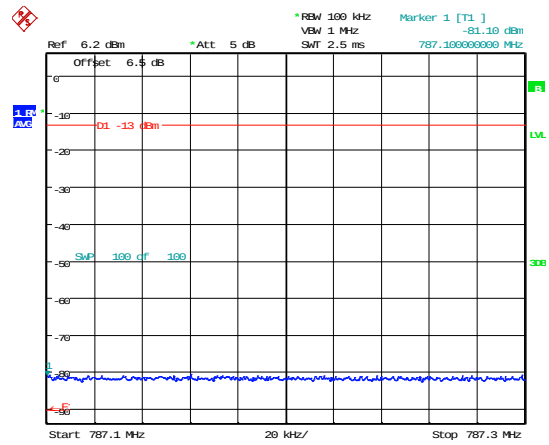
Page 140 of 225

776-787MHz 2 x AWGN $\leq$ AGC lower



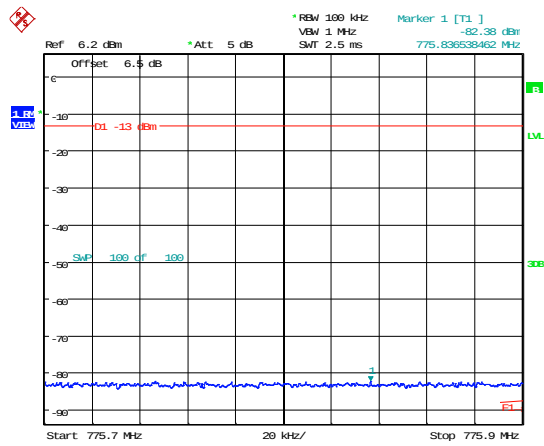
Date: 26.NOV.2015 16:09:47

776-787MHz 2 x AWGN $\leq$ AGC Upper



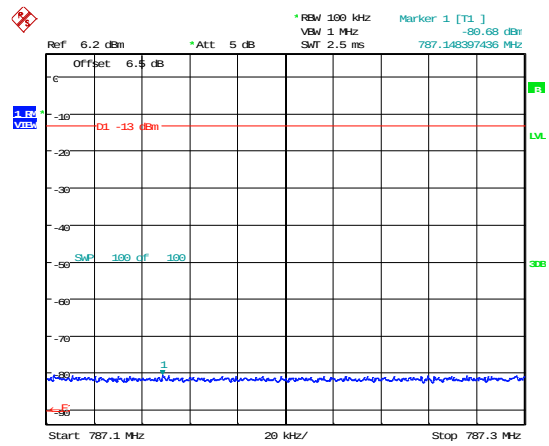
Date: 26.NOV.2015 16:30:35

776-787MHz 2 x AWGN AGC +3dB lower



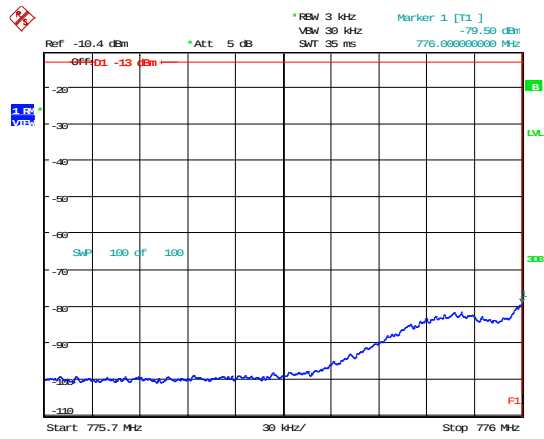
Date: 26.NOV.2015 16:10:19

776-787MHz 2 x AWGN AGC +3dB upper



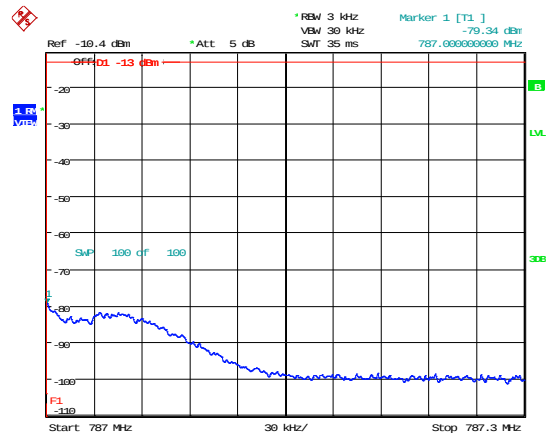
Date: 26.NOV.2015 16:31:15

776-787MHz 1 x MSK $\leq$ AGC lower



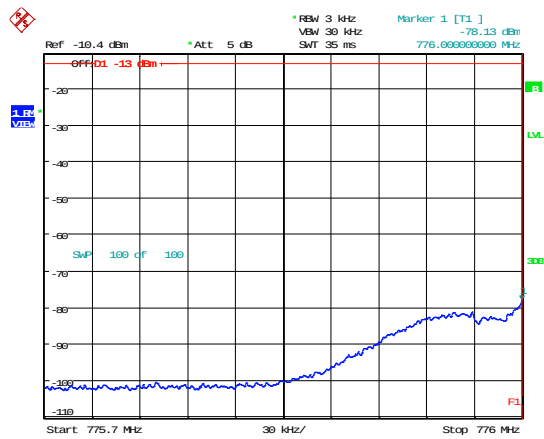
Date: 27.NOV.2015 15:24:08

776-787MHz 1 x MSK $\leq$ AGC Upper



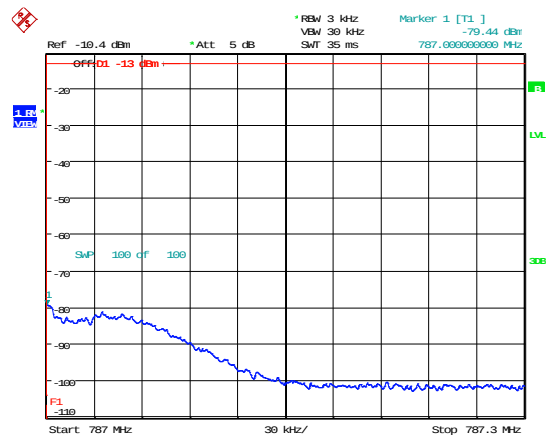
Date: 27.NOV.2015 15:35:24

776-787MHz 1 x MSK AGC +3dB lower



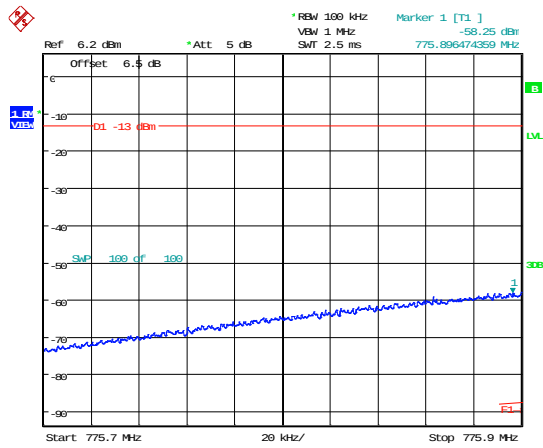
Date: 27.NOV.2015 15:24:41

776-787MHz 1 x MSK AGC +3dB upper



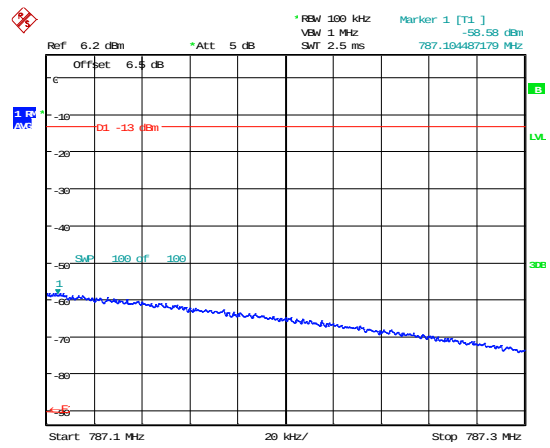
Date: 27.NOV.2015 15:38:02

776-787MHz 1 x AWGN $\leq$ AGC lower



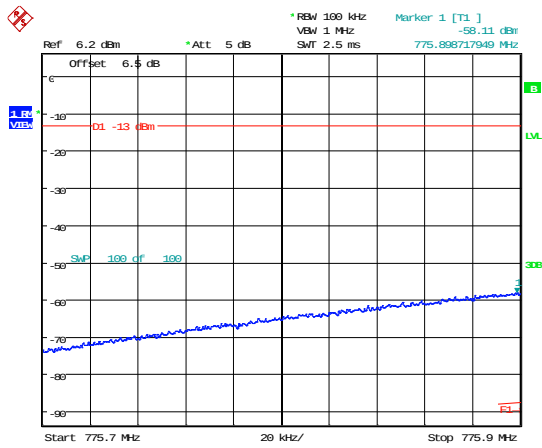
Date: 26.NOV.2015 16:13:55

776-787MHz 1 x AWGN $\leq$ AGC Upper



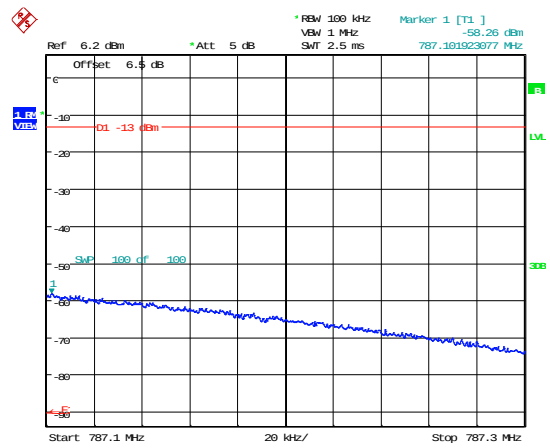
Date: 26.NOV.2015 16:37:06

776-787MHz 1 x AWGN AGC +3dB lower



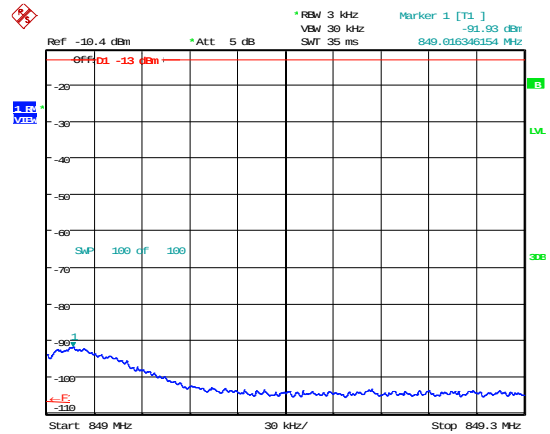
Date: 26.NOV.2015 16:14:27

776-787MHz 1 x AWGN AGC +3dB upper



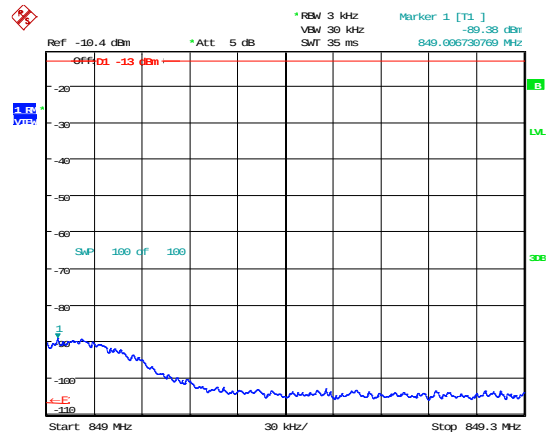
Date: 26.NOV.2015 16:37:39

817-849MHz 2 x MSK $\leq$ AGC Upper



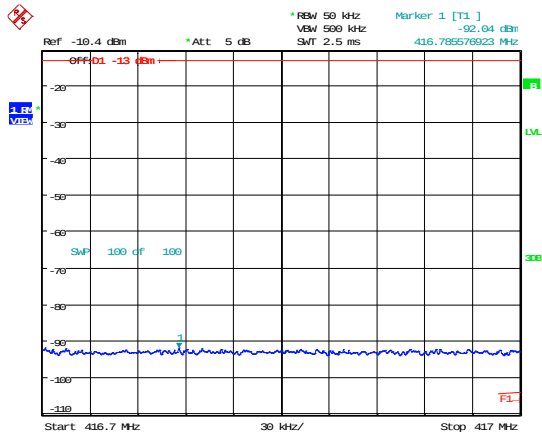
Date: 27.NOV.2015 16:29:43

817-849MHz 2 x MSK AGC +3dB upper



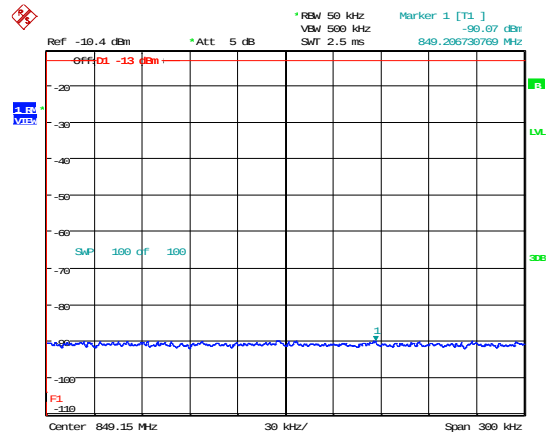
Date: 27.NOV.2015 16:30:12

817-849MHz 2 x AWGN $\leq$ AGC lower



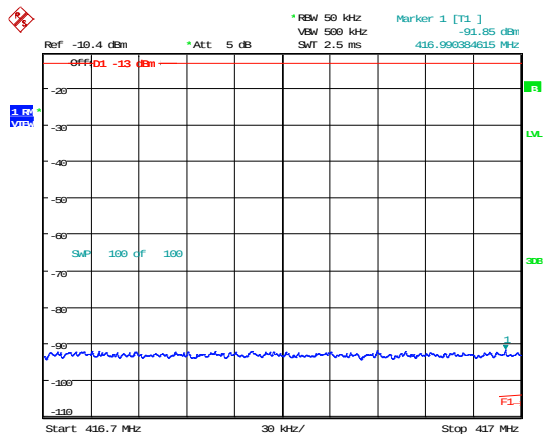
Date: 30.NOV.2015 10:39:33

817-849MHz 2 x AWGN $\leq$ AGC Upper



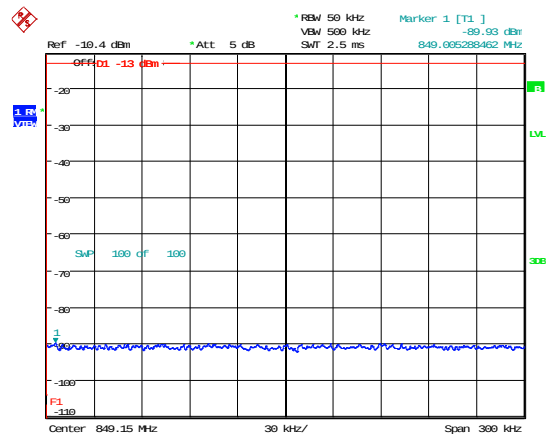
Date: 30.NOV.2015 10:43:46

817-849MHz 2 x AWGN AGC +3dB lower



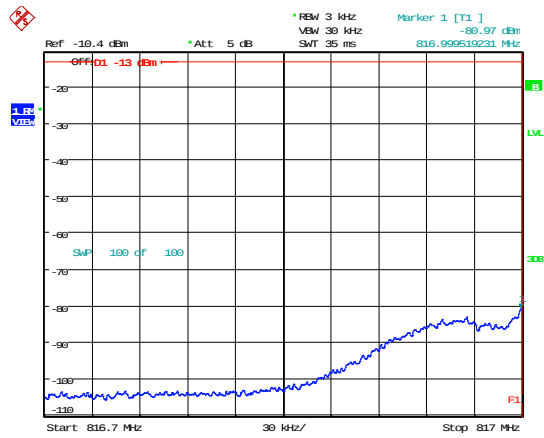
Date: 30.NOV.2015 10:39:59

817-849MHz 2 x AWGN AGC +3dB upper



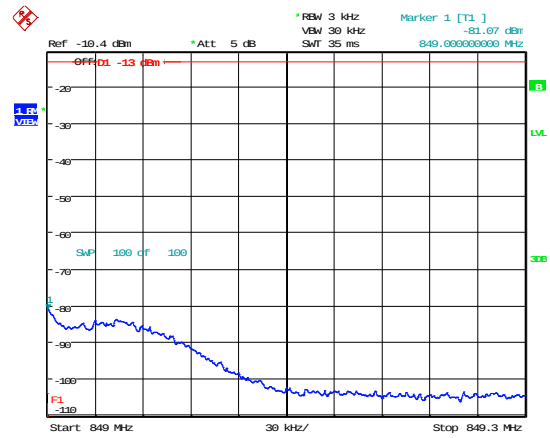
Date: 30.NOV.2015 10:44:11

817-849MHz 1 x MSK $\leq$ AGC lower



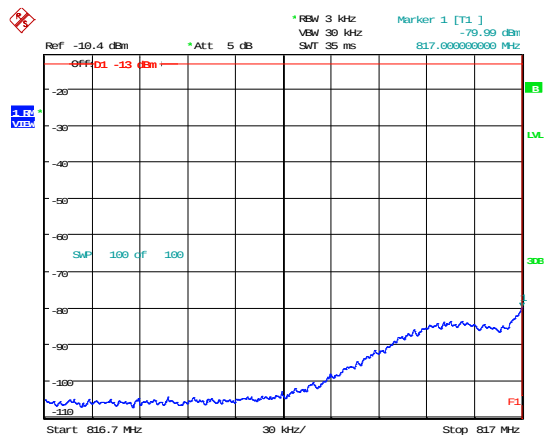
Date: 27.NOV.2015 16:24:40

817-849MHz 1 x MSK $\leq$ AGC Upper



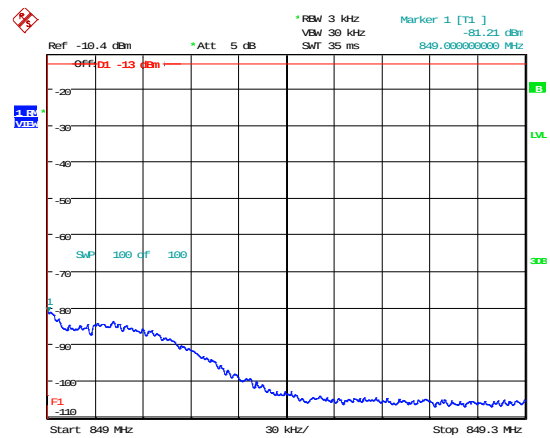
Date: 27.NOV.2015 16:23:10

817-849MHz 1 x MSK AGC +3dB lower



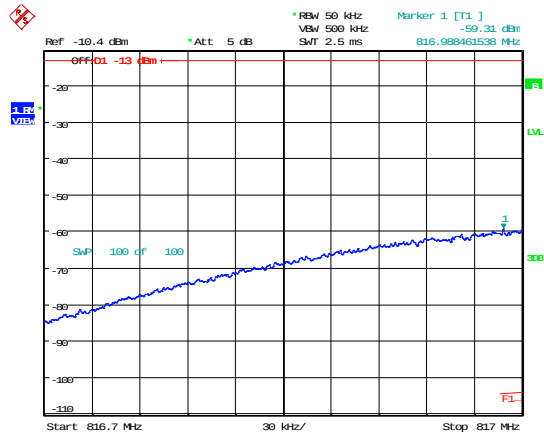
Date: 27.NOV.2015 16:25:03

817-849MHz 1 x MSK AGC +3dB upper



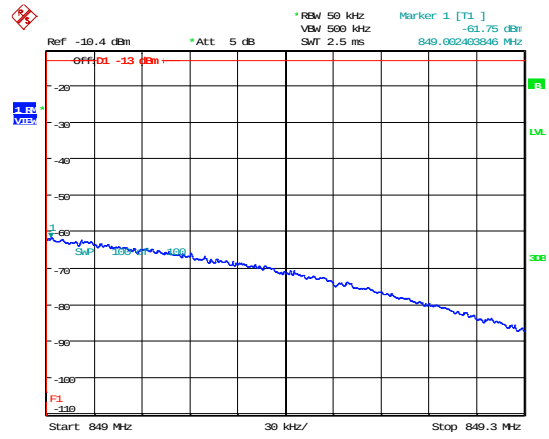
Date: 27.NOV.2015 16:23:28

817-849MHz 1 x AWGN $\leq$ AGC lower



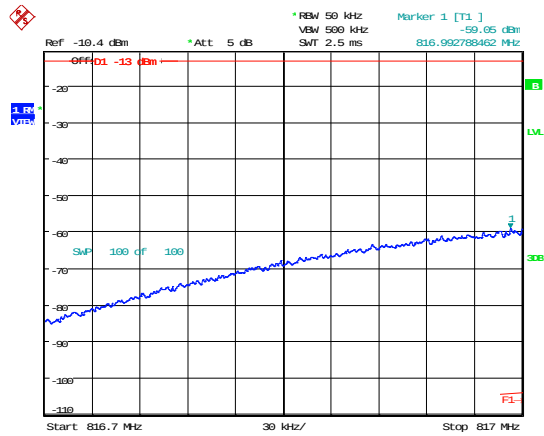
Date: 30.NOV.2015 10:51:06

817-849MHz 1 x AWGN $\leq$ AGC Upper



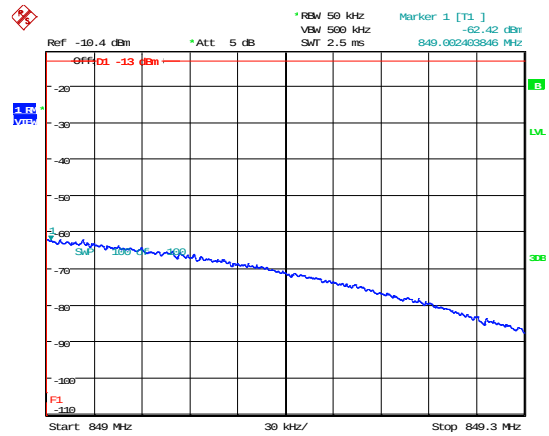
Date: 30.NOV.2015 10:48:52

817-849MHz 1 x AWGN AGC +3dB lower



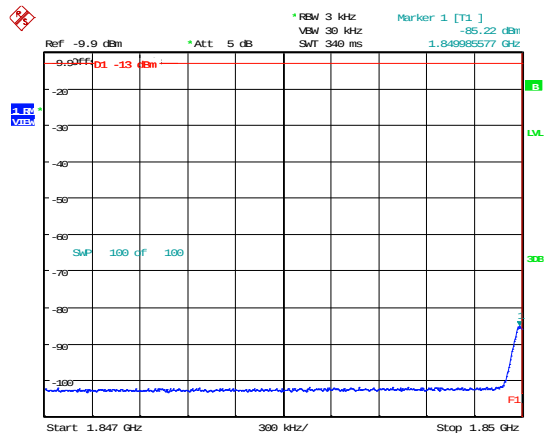
Date: 30.NOV.2015 10:51:35

817-849MHz 1 x AWGN AGC +3dB upper



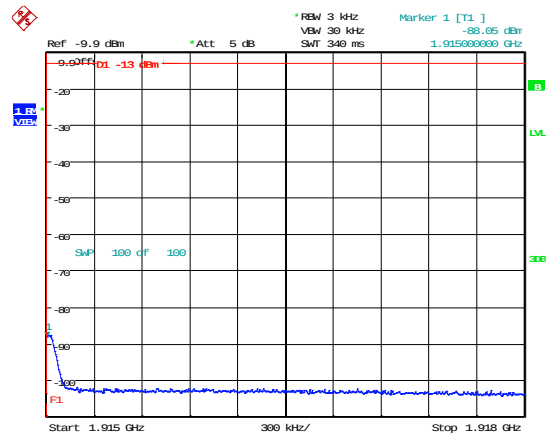
Date: 30.NOV.2015 10:49:38

1850-1915MHz 2 x MSK $\leq$ AGC lower



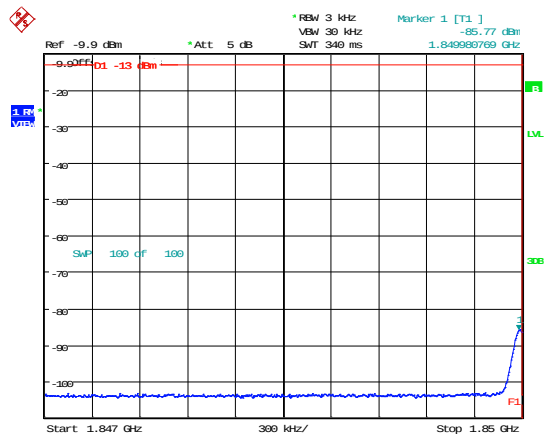
Date: 27.NOV.2015 12:38:03

1850-1915MHz 2 x MSK $\leq$ AGC Upper



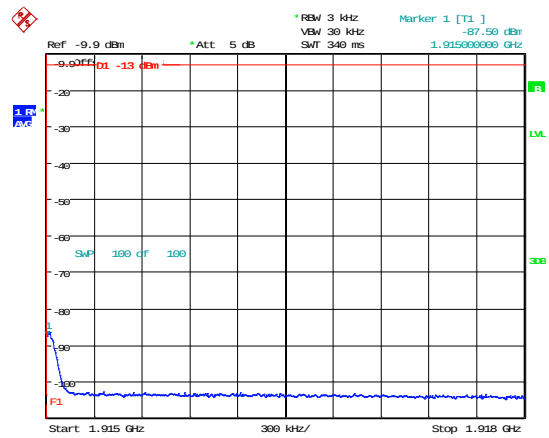
Date: 27.NOV.2015 12:59:27

1850-1915MHz 2 x MSK AGC +3dB lower



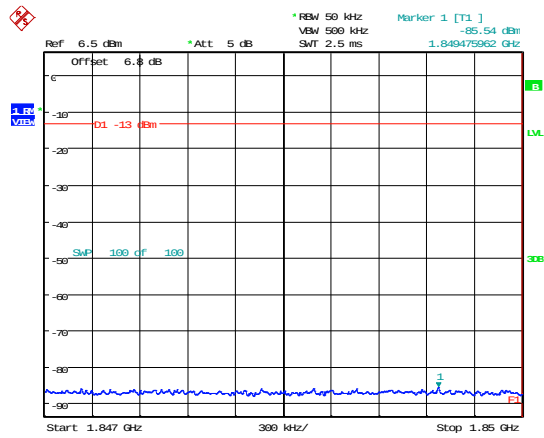
Date: 27.NOV.2015 12:39:20

1850-1915MHz 2 x MSK AGC +3dB upper



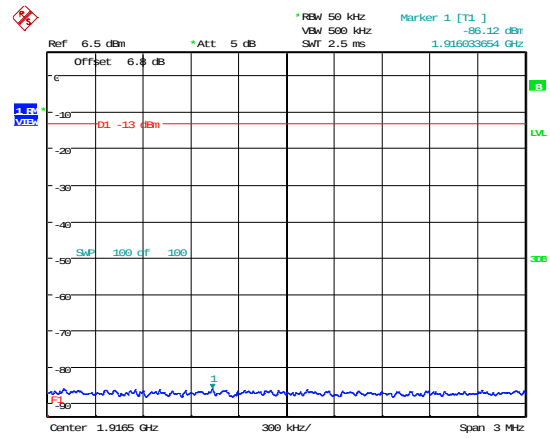
Date: 27.NOV.2015 13:00:28

1850-1915MHz 2 x AWGN $\leq$ AGC lower



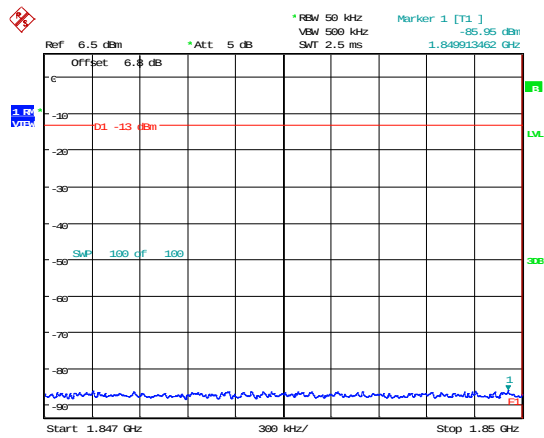
Date: 26.NOV.2015 11:48:13

1850-1915MHz 2 x AWGN $\leq$ AGC Upper



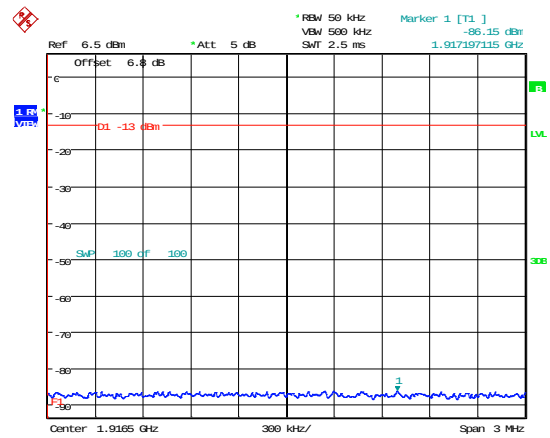
Date: 26.NOV.2015 12:18:04

1850-1915MHz 2 x AWGN AGC +3dB lower



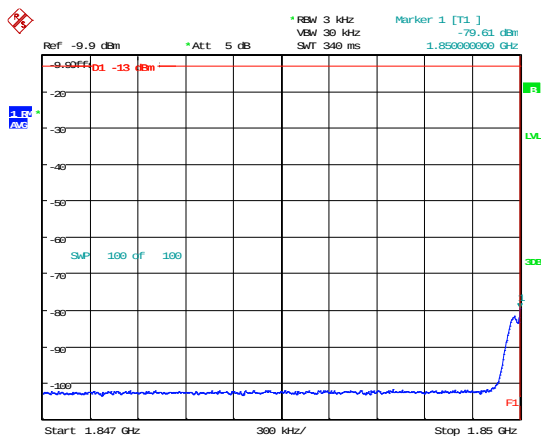
Date: 26.NOV.2015 11:48:36

1850-1915MHz 2 x AWGN AGC +3dB upper



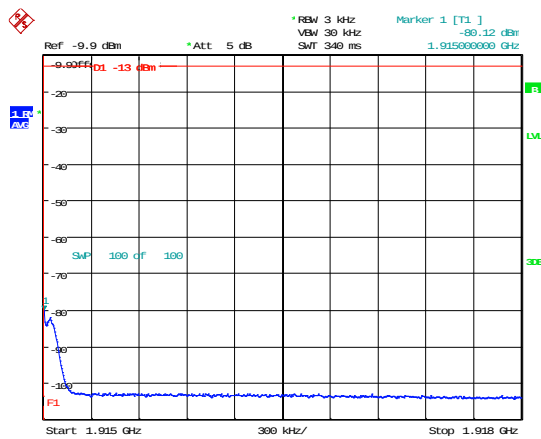
Date: 26.NOV.2015 12:18:39

1850-1915MHz 1 x MSK ≤ AGC lower



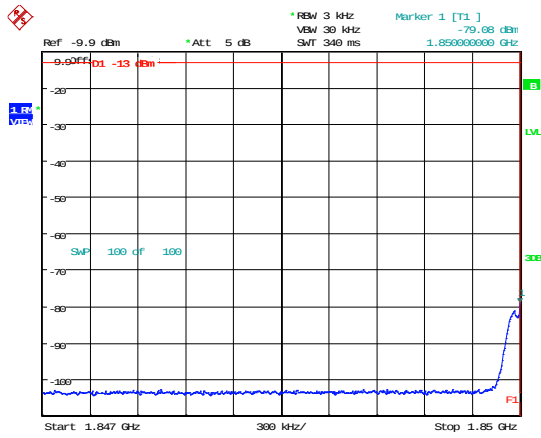
Date: 27.NOV.2015 12:46:23

1850-1915MHz 1 x MSK ≤ AGC Upper



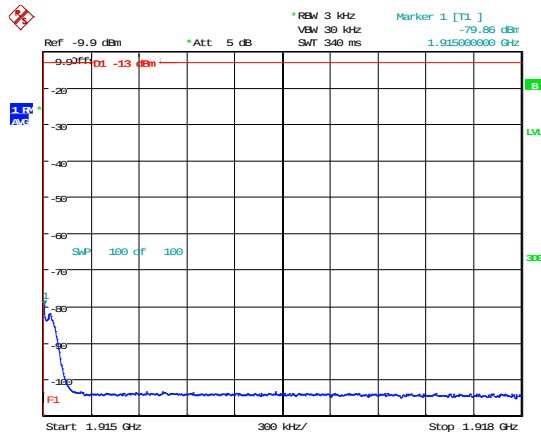
Date: 27.NOV.2015 12:53:28

1850-1915MHz 1 x MSK AGC +3dB lower

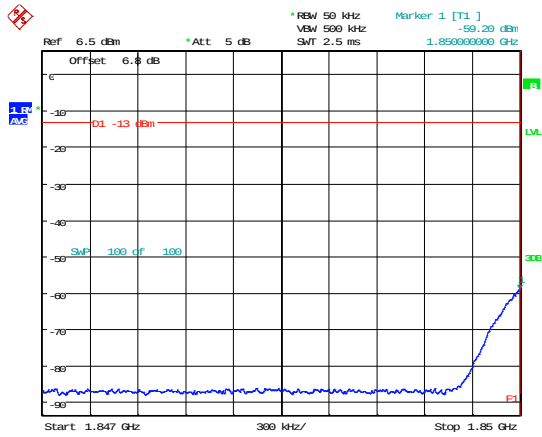


Date: 27.NOV.2015 12:47:24

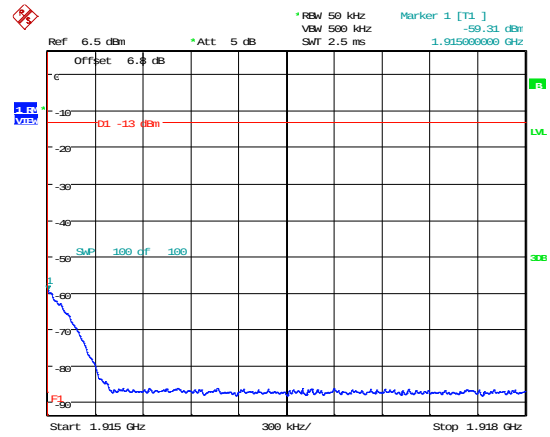
1850-1915MHz 1 x MSK AGC +3dB upper



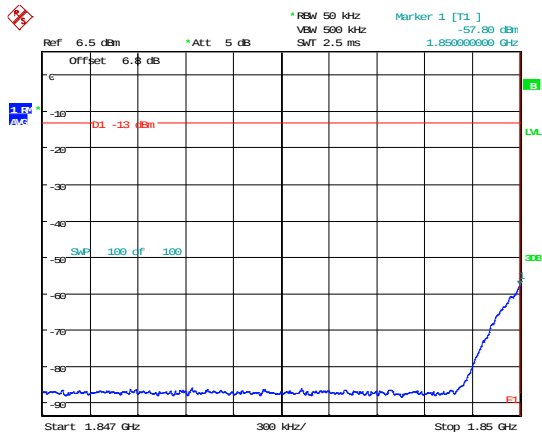
Date: 27.NOV.2015 12:54:21



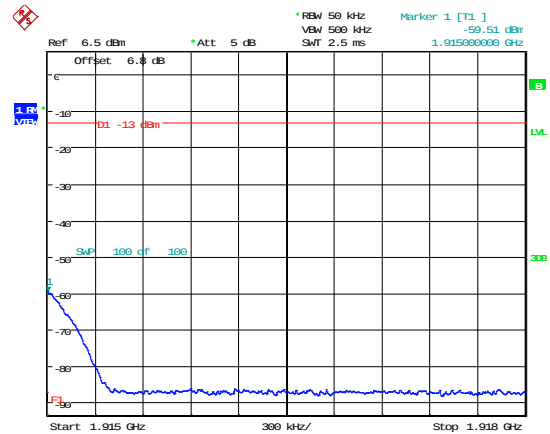
Date: 26.NOV.2015 11:57:56



Date: 26.NOV.2015 12:16:32

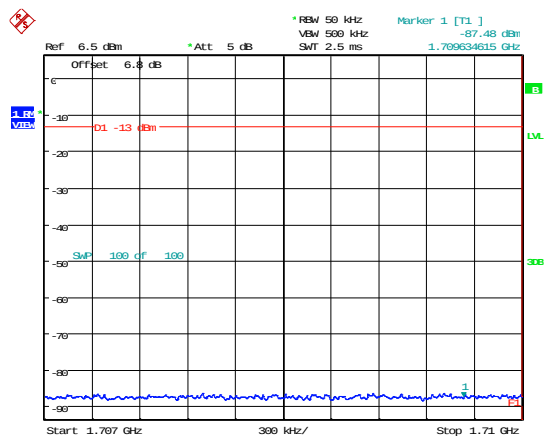


Date: 26.NOV.2015 11:58:22



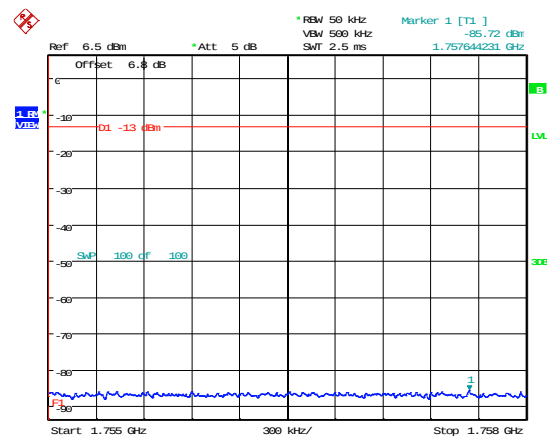
Date: 26.NOV.2015 12:16:58

1710-1755MHz 2 x AWGN $\leq$ AGC lower



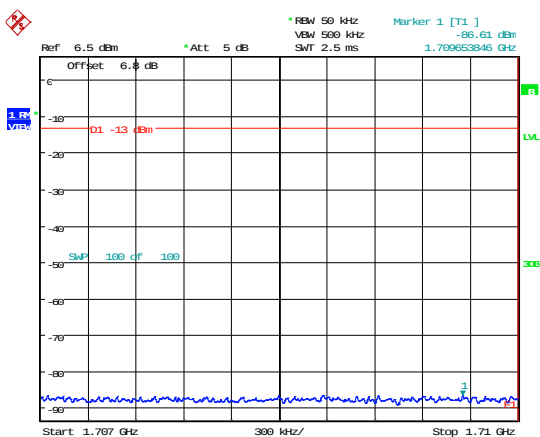
Date: 26.NOV.2015 11:25:45

1710-1755MHz 2 x AWGN $\leq$ AGC Upper



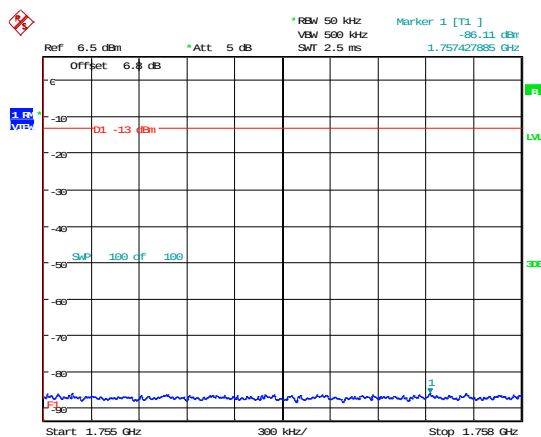
Date: 26.NOV.2015 10:52:58

1710-1755MHz 2 x AWGN AGC +3dB lower



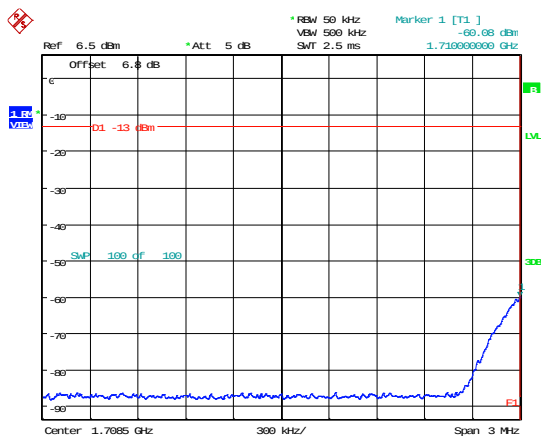
Date: 26.NOV.2015 11:26:14

1710-1755MHz 2 x AWGN AGC +3dB upper

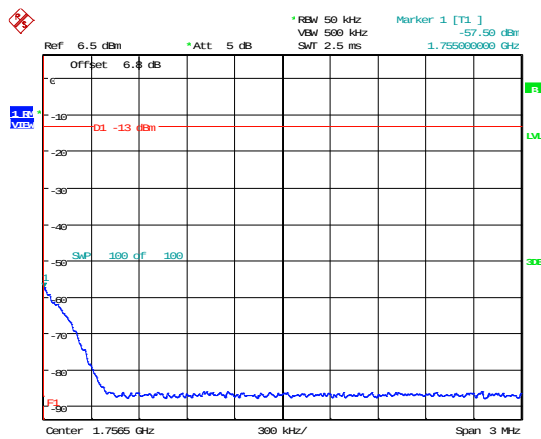


Date: 26.NOV.2015 10:53:43

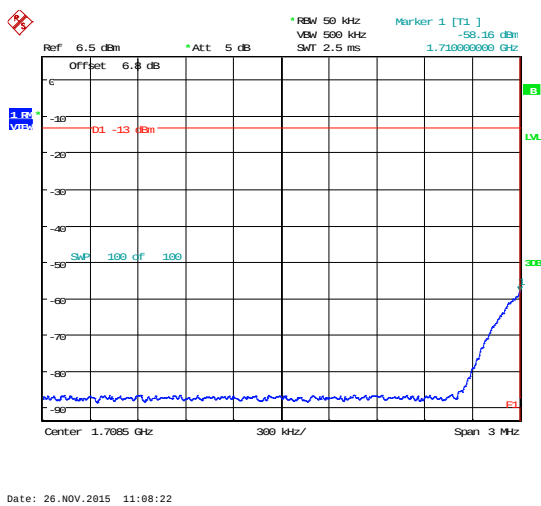
1710-1755MHz 1 x AWGN ≤ AGC lower



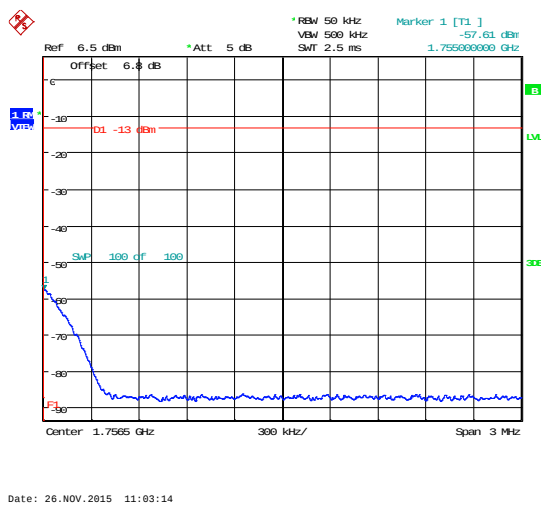
1710-1755MHz 1 x AWGN ≤ AGC Upper



1710-1755MHz 1 x AWGN AGC +3dB lower



1710-1755MHz 1 x AWGN AGC +3dB upper



B6 EUT spurious emissions conducted

Test Details:	
Measurement standard	KDB935210 D05 Clause 3.6.3 Part 2.1051
EUT sample number	S01
Modification state	0
SE in test environment	S02
SE isolated from EUT	None
EUT set up	Refer to Appendix C

Bottom Channel

Frequency Range	Freq. of Emission (MHz)	Measured Level (dBm)	Attenuator & Cable Losses (dB)	Spurious Emission Level (dBm)	Limit dBm
9kHz - 20GHz	No Significant Emissions Within 10 dB of the Limit				-13

Middle Channel

Frequency Range	Freq. of Emission (MHz)	Measured Level (dBm)	Attenuator & Cable Losses (dB)	Spurious Emission Level (dBm)	Limit dBm
9kHz - 20GHz	No Significant Emissions Within 10 dB of the Limit				-13

Top channel

Frequency Range	Freq. of Emission (MHz)	Measured Level (dBm)	Attenuator & Cable Losses (dB)	Spurious Emission Level (dBm)	Limit dBm
9kHz - 20GHz	No Significant Emissions Within 10 dB of the Limit				-13

LIMIT =-13 dBm

Frequency Bands	Rule part	RBW
698-716MHz	27.53(g)	≥100kHz*
776-787MHz	27.53(c)(5)	≥100kHz*
824-849MHz	22.917(b)	≥100kHz [#]
1850-1915MHz	24.238(b)	≥1MHz ^{\$}
1710-1755MHz	27.53(h)	≥1MHz ^{\$}

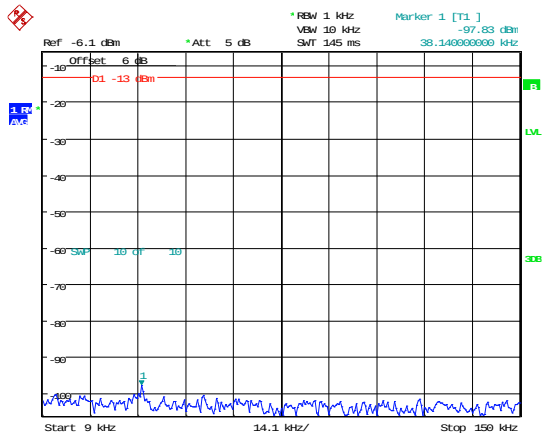
* Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

[#] Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

^{\$} Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

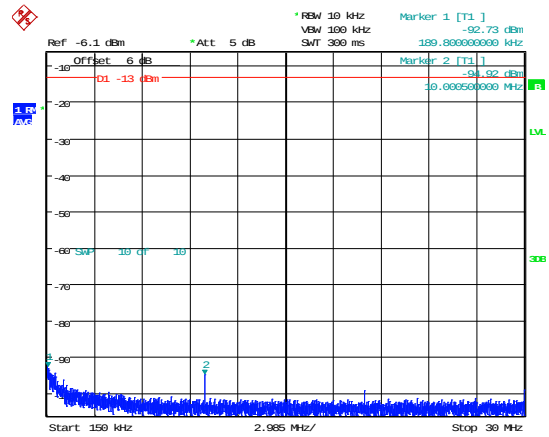
Result

The EUT was found to comply with the limits



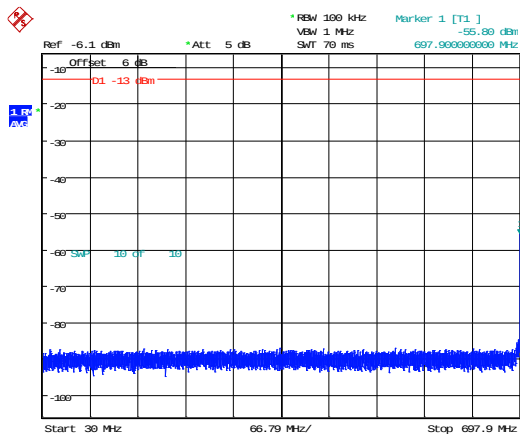
Date: 19.AUG.2015 12:47:35

1 – 698-716MHz Bottom (9 kHz to 150 kHz); MSK.



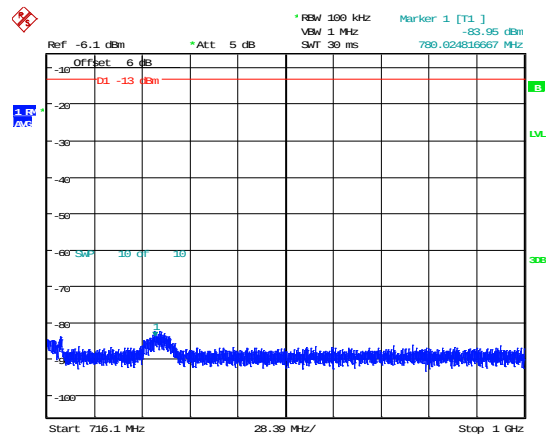
Date: 19.AUG.2015 12:48:40

2 – 698-716MHz Bottom (150 kHz to 30 MHz); MSK.



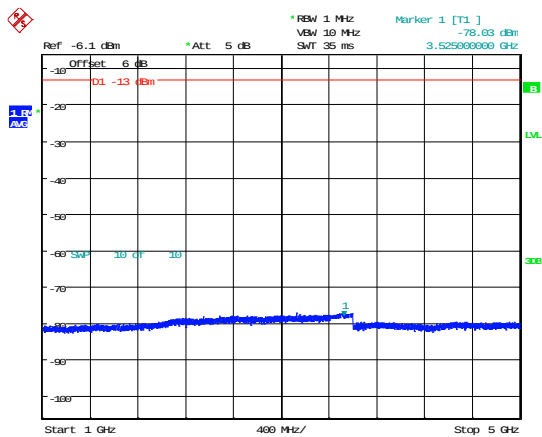
Date: 19.AUG.2015 12:50:34

3 – 698-716MHz Bottom (30 MHz to 687.9 MHz); MSK.



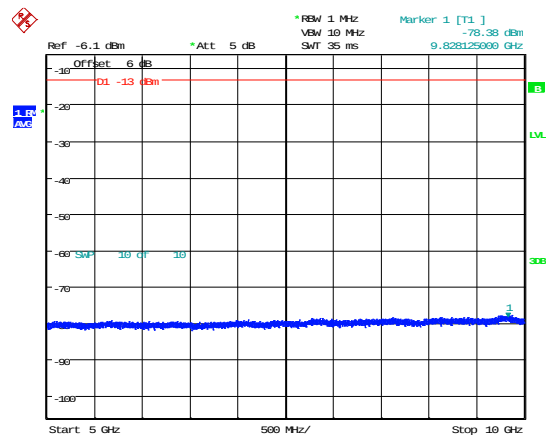
Date: 19.AUG.2015 12:51:40

4 – 698-716MHz Bottom (716.9 MHz to 1 GHz); MSK.



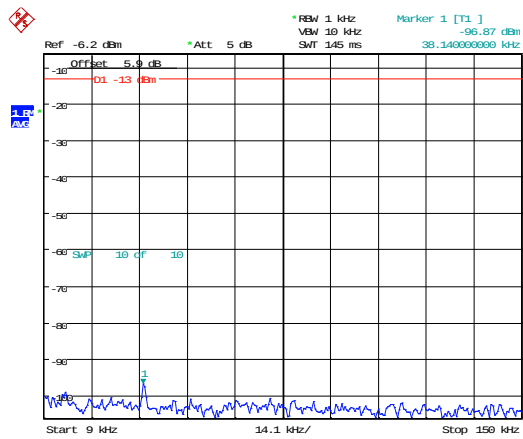
Date: 19.AUG.2015 12:52:20

5 – 698-716MHz Bottom (1 GHz to 5 GHz); MSK.



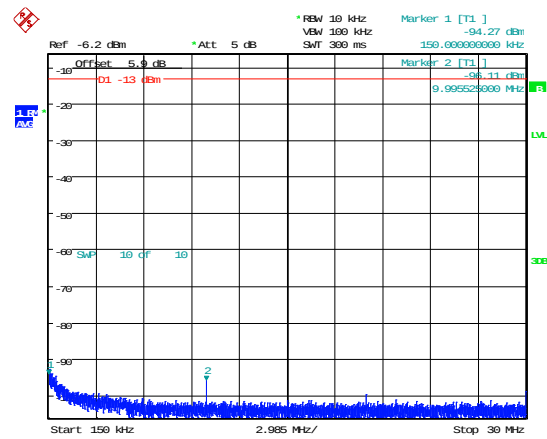
Date: 19.AUG.2015 12:52:43

6 – 698-716MHz Bottom (5 GHz to 10 GHz); MSK.



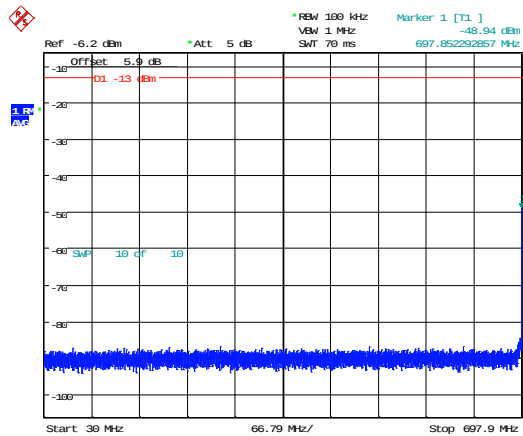
Date: 19.AUG.2015 15:08:59

1 – 698-716MHz Bottom (9 kHz to 150 kHz);
AWGN.



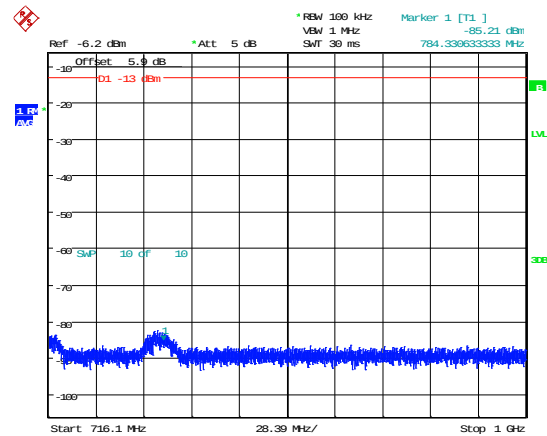
Date: 19.AUG.2015 15:09:47

2 – 698-716MHz Bottom (150 kHz to 30 MHz);
AWGN.



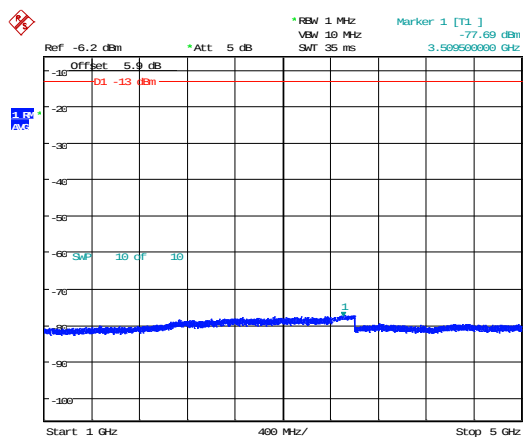
Date: 19.AUG.2015 15:10:44

3 – 698-716MHz Bottom (30 MHz to 687.9 MHz);
AWGN.



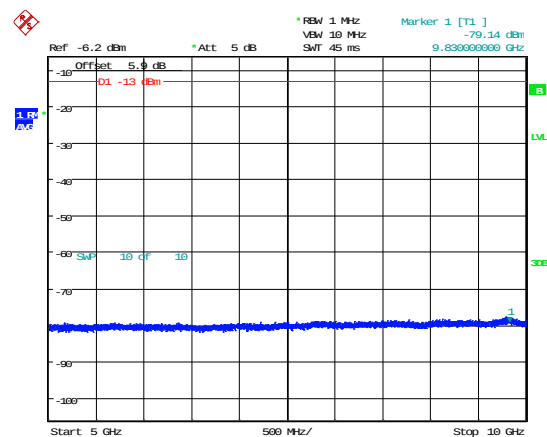
Date: 19.AUG.2015 15:11:36

4 – 698-716MHz Bottom (716.9 MHz to 1 GHz);
AWGN.



Date: 19.AUG.2015 15:12:02

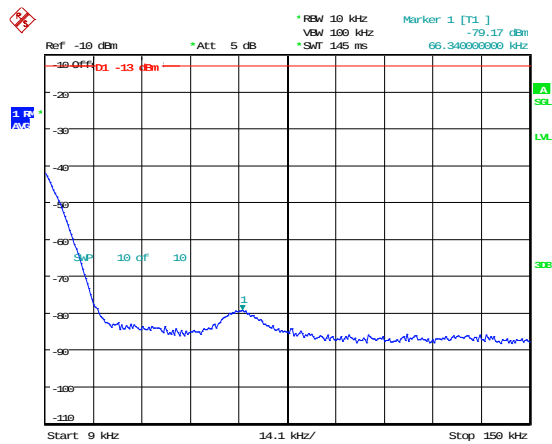
5 – 698-716MHz Bottom (1 GHz to 5 GHz);
AWGN.



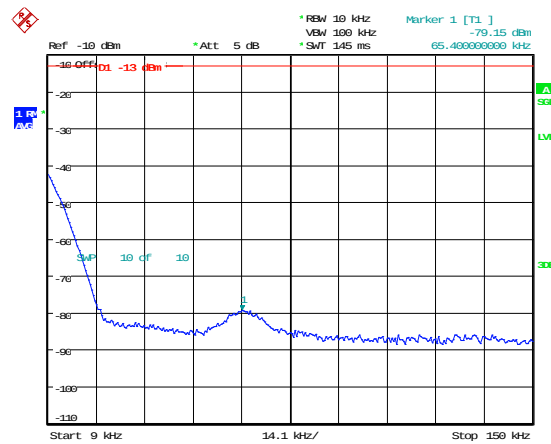
Date: 19.AUG.2015 15:12:31

6 – 698-716MHz Bottom (5 GHz to 10 GHz);
AWGN.

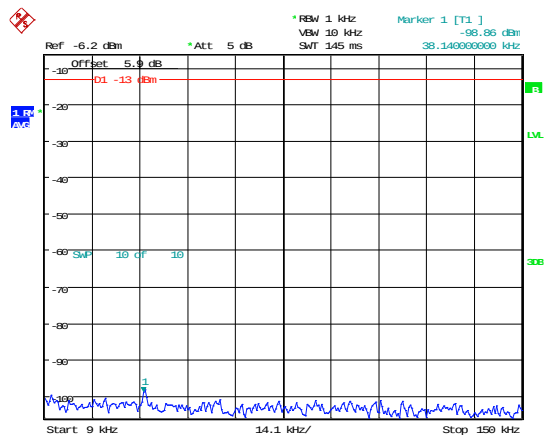
7 – 698-716MHz Bottom (9 kHz to 150 kHz); MSK. 8 – 698-716MHz Bottom (9 kHz to 150 kHz); MSK



Date: 24.MAR.2016 11:49:43

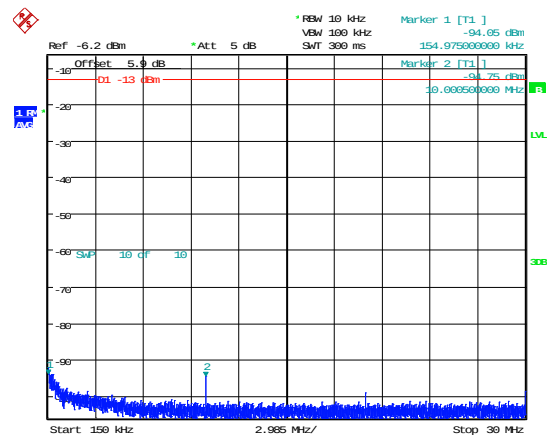


Date: 24.MAR.2016 11:51:23



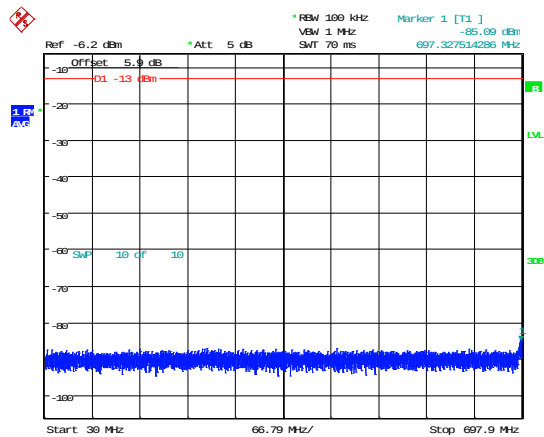
Date: 19.AUG.2015 15:15:22

1 – 698-716MHz Mid (9 kHz to 150 kHz); MSK.



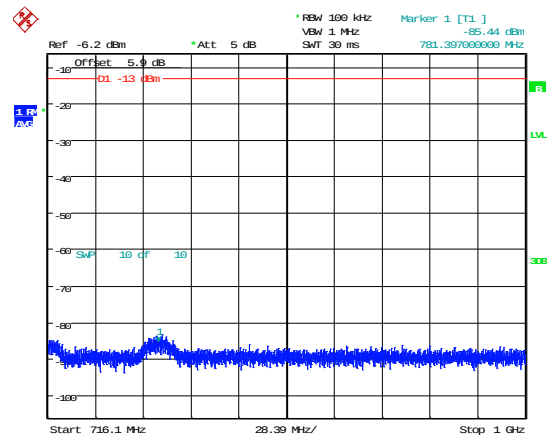
Date: 19.AUG.2015 15:16:12

2 – 698-716MHz Mid (150 kHz to 30 MHz); MSK.



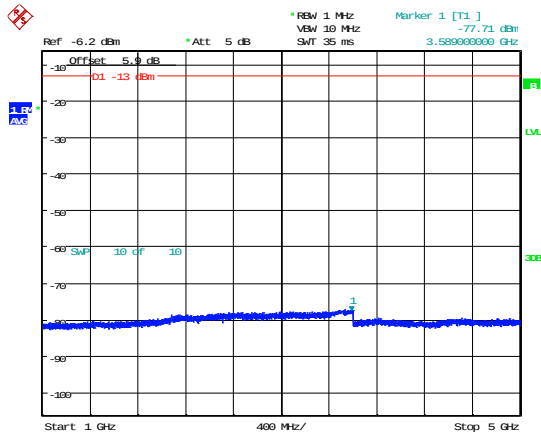
Date: 19.AUG.2015 15:17:02

3 – 698-716MHz Mid (30 MHz to 687.9 MHz); MSK.



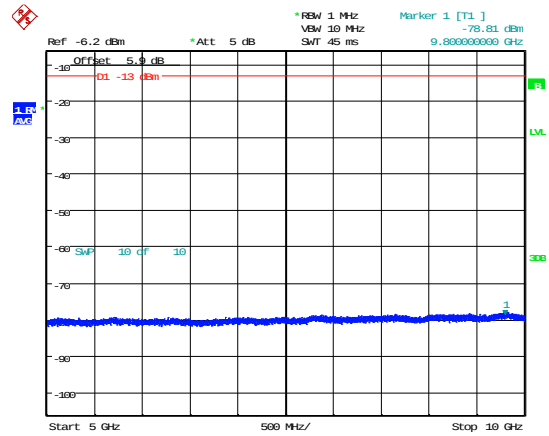
Date: 19.AUG.2015 15:17:39

4 – 698-716MHz Mid (716.9 MHz to 1 GHz); MSK.



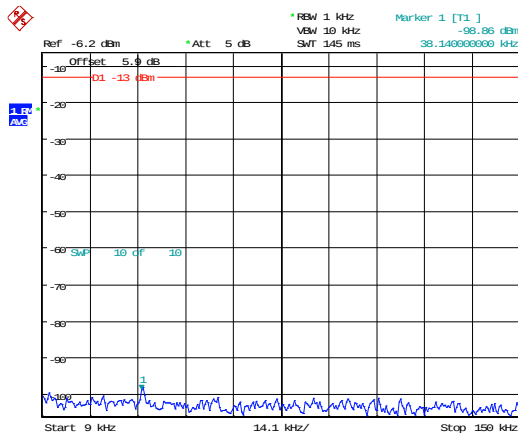
Date: 19.AUG.2015 15:18:12

5 – 698-716MHz Mid (1 GHz to 5 GHz); MSK.



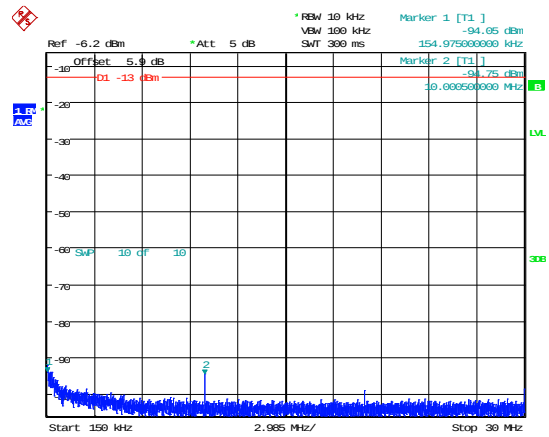
Date: 19.AUG.2015 15:18:49

6 – 698-716MHz Mid (5 GHz to 10 GHz); MSK.



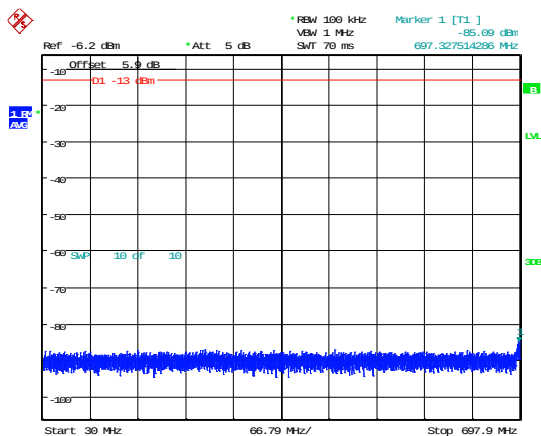
Date: 19.AUG.2015 15:15:22

1 – 698-716MHz Mid (9 kHz to 150 kHz); AWGN.



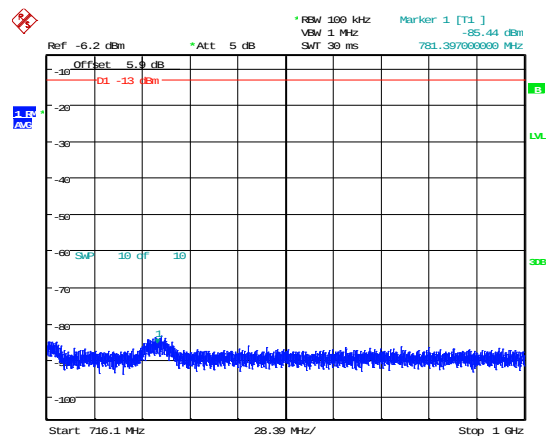
Date: 19.AUG.2015 15:16:12

2 – 698-716MHz Mid (150 kHz to 30 MHz); AWGN.



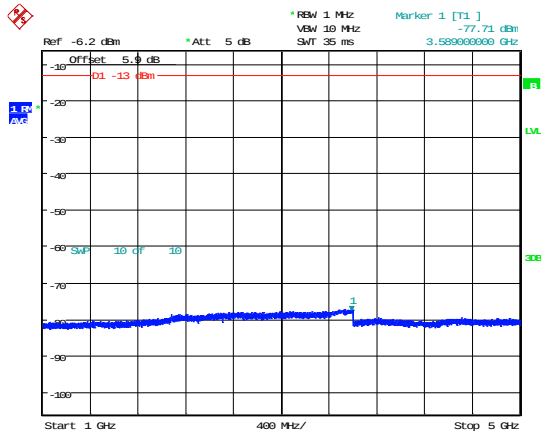
Date: 19.AUG.2015 15:17:02

3 – 698-716MHz Mid (30 MHz to 687.9 MHz); AWGN.



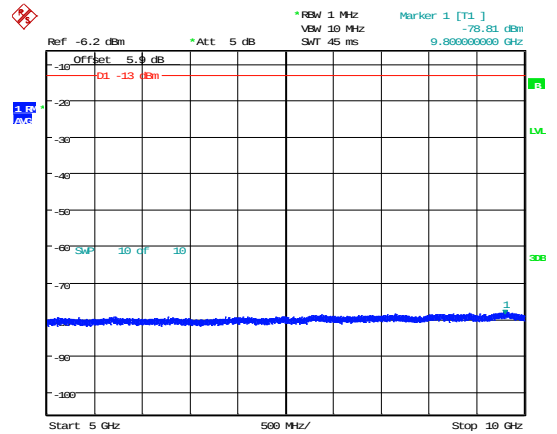
Date: 19.AUG.2015 15:17:39

4 – 698-716MHz Mid (716.9 MHz to 1 GHz); AWGN.



Date: 19.AUG.2015 15:18:12

5 – 698-716MHz Mid (1 GHz to 5 GHz); AWGN.

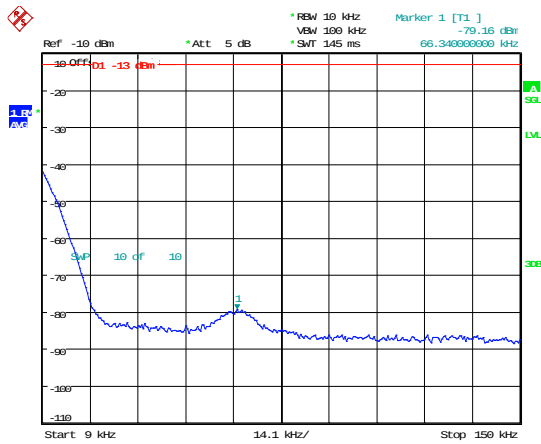


Date: 19.AUG.2015 15:18:49

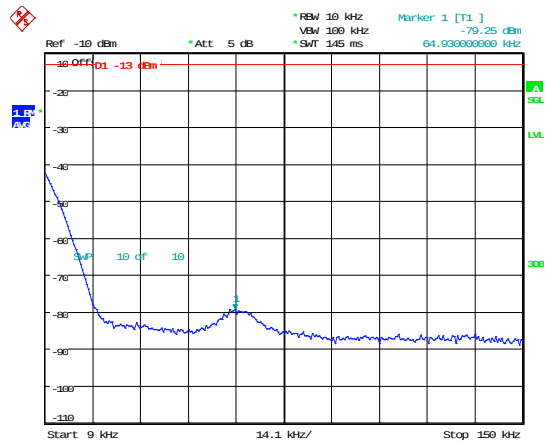
6 – 698-716MHz Mid (5 GHz to 10 GHz); AWGN.

7 – 698-716MHz Mid (9 kHz to 150 kHz); MSK7

8 – 698-716MHz Mid (9 kHz to 150 kHz); AWGN



Date: 24.MAR.2016 11:58:07



Date: 24.MAR.2016 11:51:48