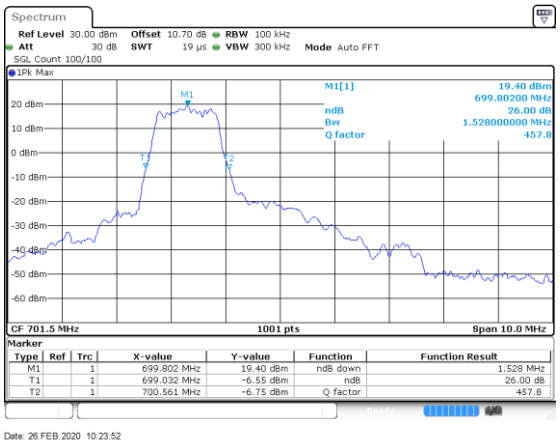
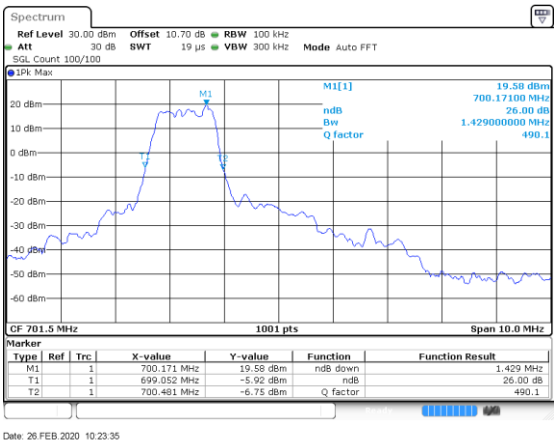
LTE Band 12

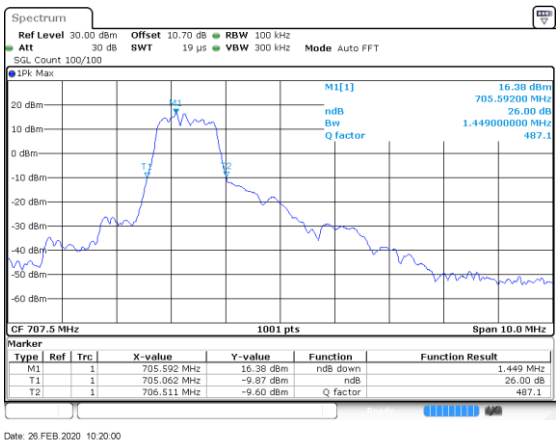
Lowest Channel / 5MHz / QPSK



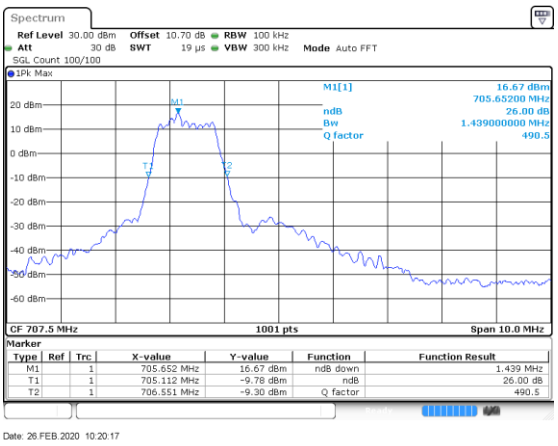
Lowest Channel / 5MHz / 16QAM



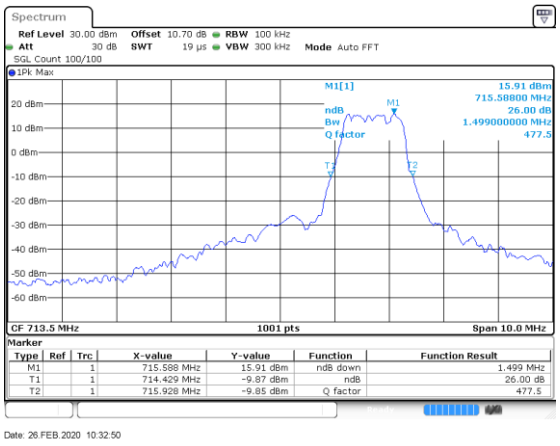
Middle Channel / 5MHz / QPSK



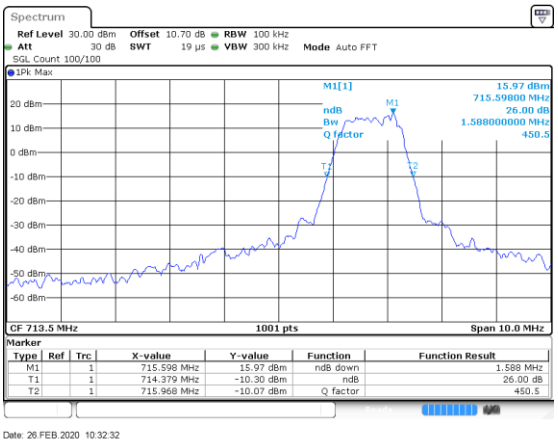
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

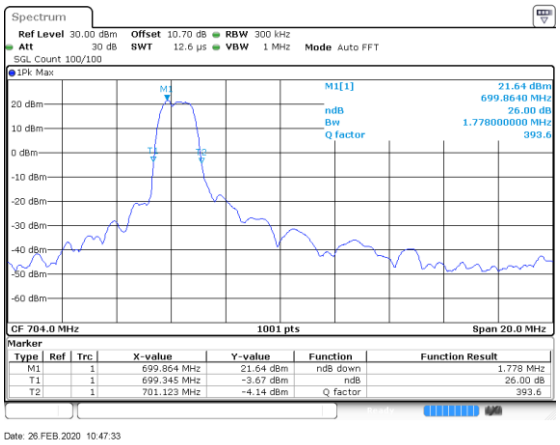


Highest Channel / 5MHz / 16QAM

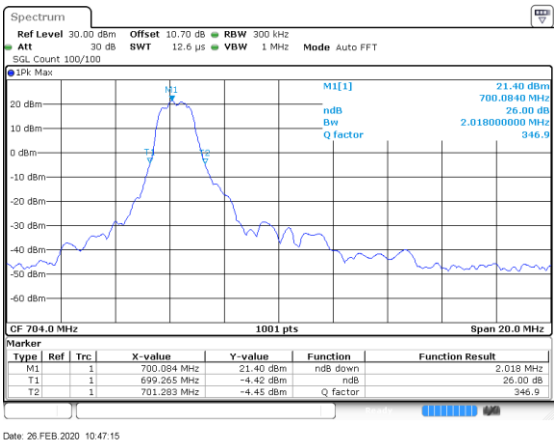


LTE Band 12

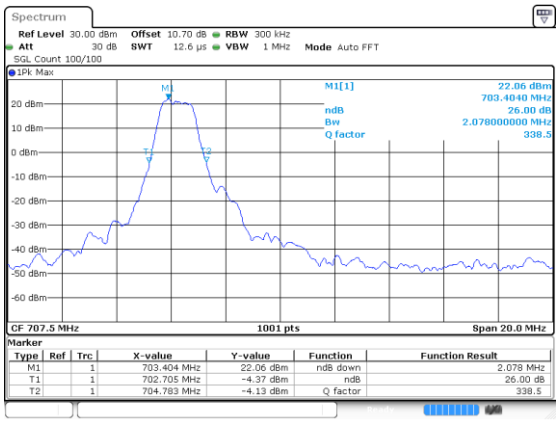
Lowest Channel / 10MHz / QPSK



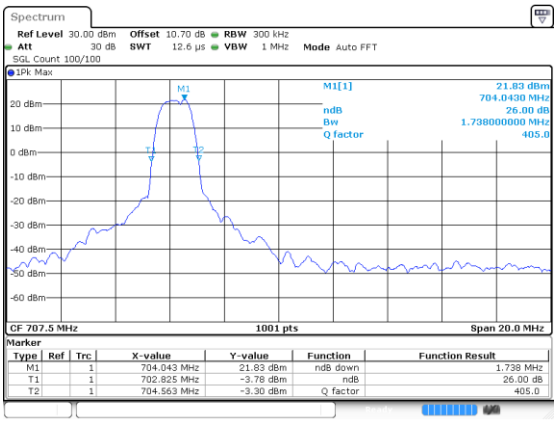
Lowest Channel / 10MHz / 16QAM



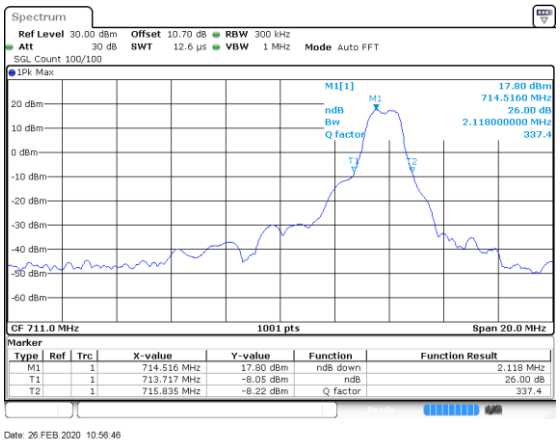
Middle Channel / 10MHz / QPSK



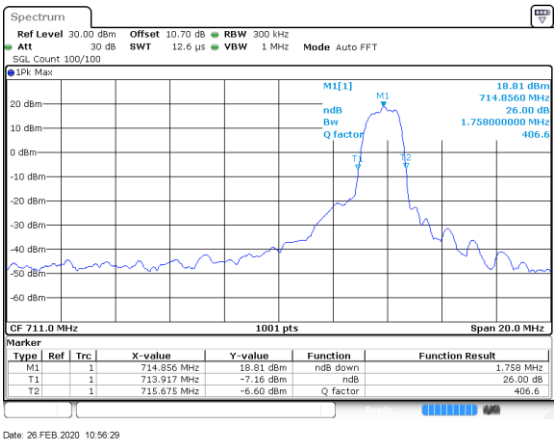
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

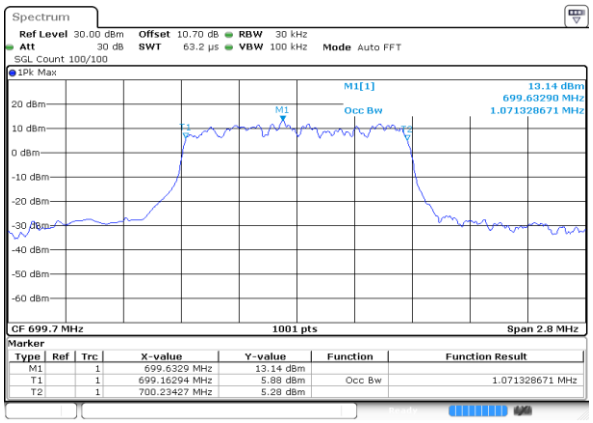


Occupied Bandwidth

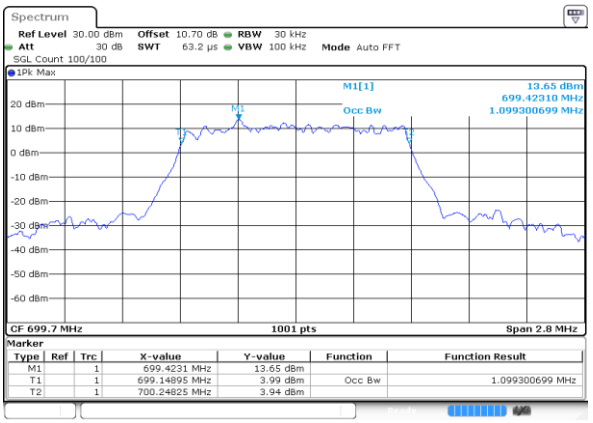
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.07	1.10	1.17	1.19	1.16	1.19	1.52	1.54	-	-	-	-
Middle CH	1.08	1.09	1.57	1.22	1.18	1.17	1.42	1.46	-	-	-	-
Highest CH	1.10	1.09	1.20	1.16	1.17	1.14	1.44	1.70	-	-	-	-

LTE Band 12

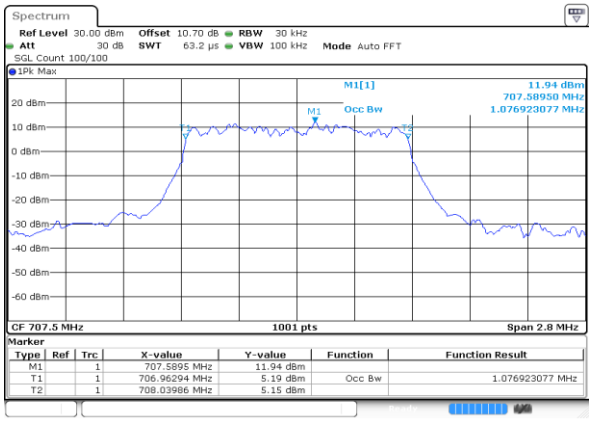
Lowest Channel / 1.4MHz / QPSK



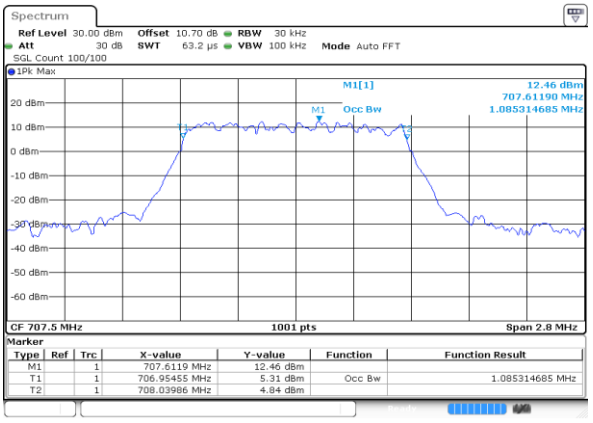
Lowest Channel / 1.4MHz / 16QAM



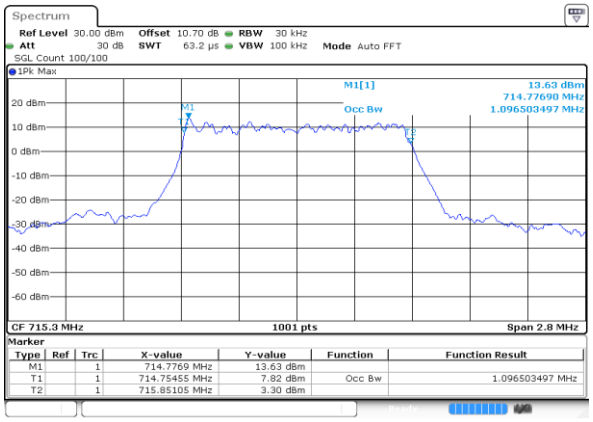
Middle Channel / 1.4MHz / QPSK



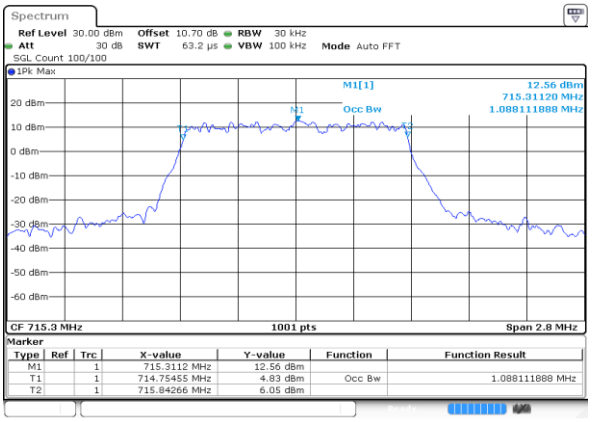
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

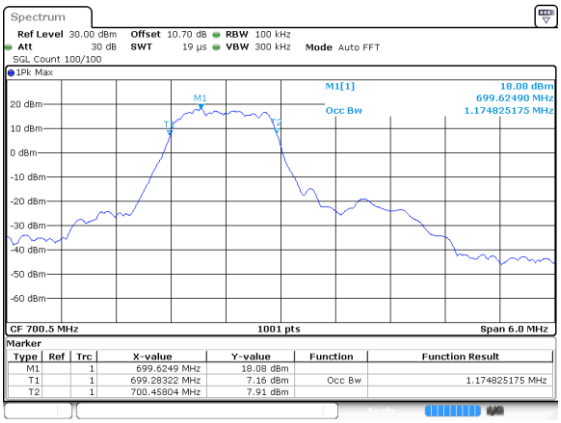


Highest Channel / 1.4MHz / 16QAM

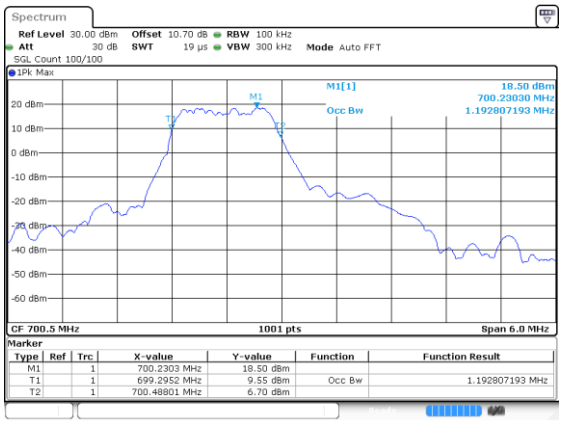


LTE Band 12

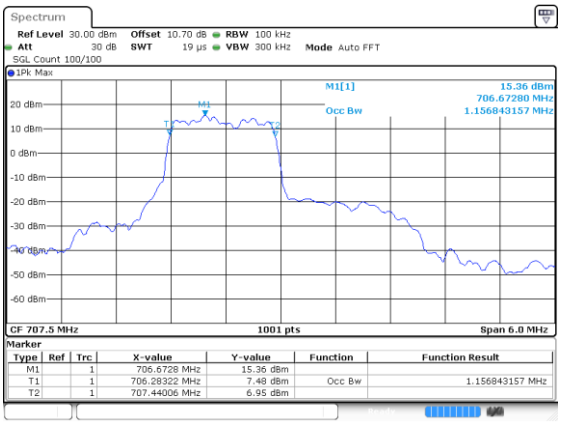
Lowest Channel / 3MHz / QPSK



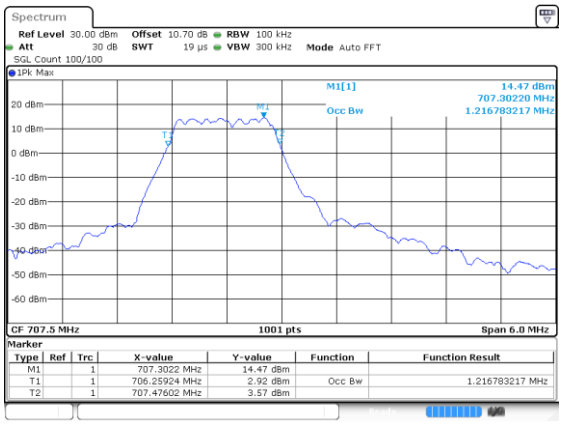
Lowest Channel / 3MHz / 16QAM



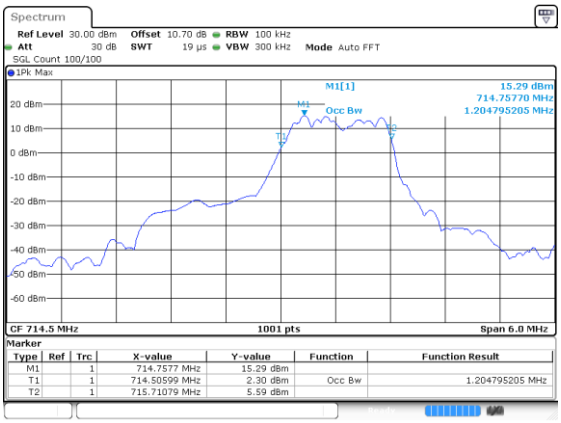
Middle Channel / 3MHz / QPSK



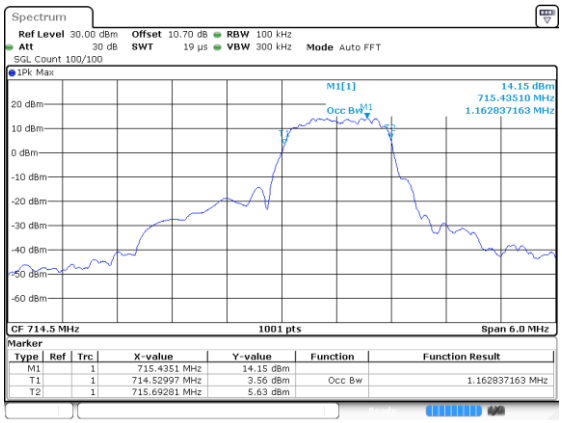
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

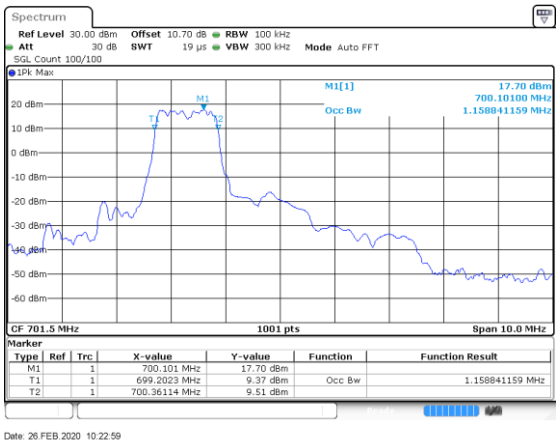


Highest Channel / 3MHz / 16QAM

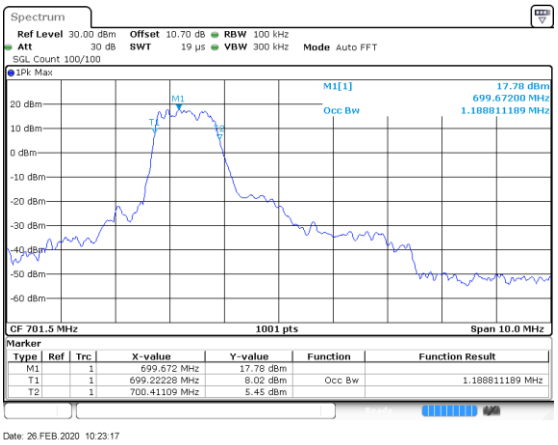


LTE Band 12

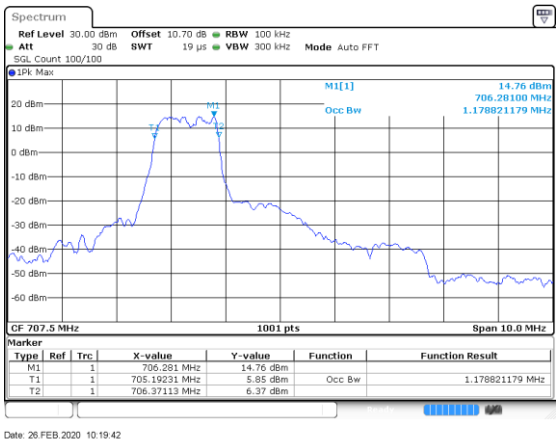
Lowest Channel / 5MHz / QPSK



Lowest Channel / 5MHz / 16QAM

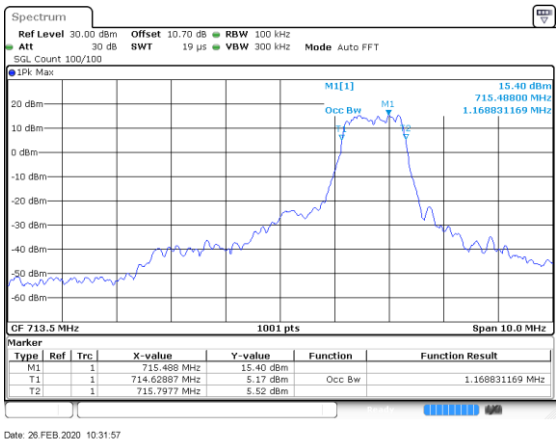


Middle Channel / 5MHz / QPSK

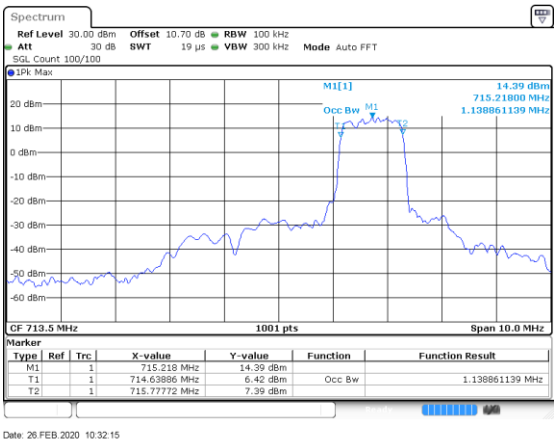


Middle Channel / 5MHz / 16QAM

Highest Channel / 5MHz / QPSK

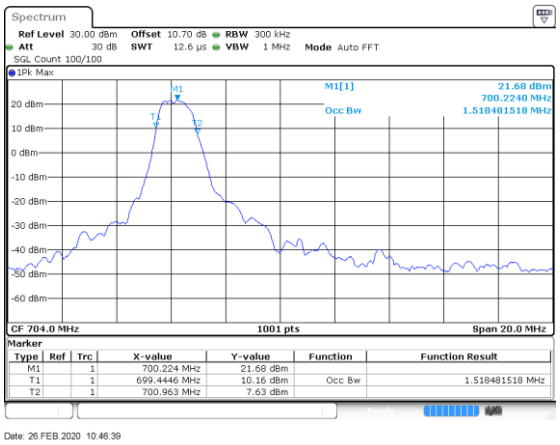


Highest Channel / 5MHz / 16QAM

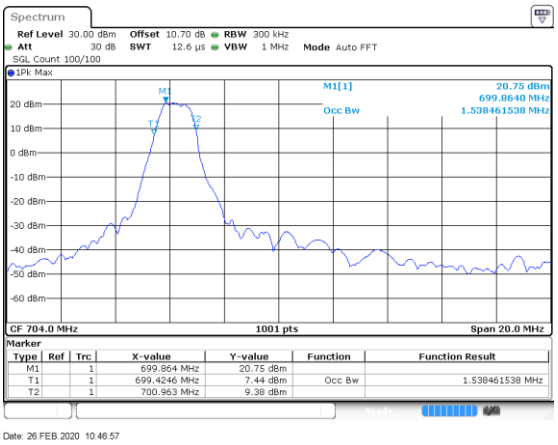


LTE Band 12

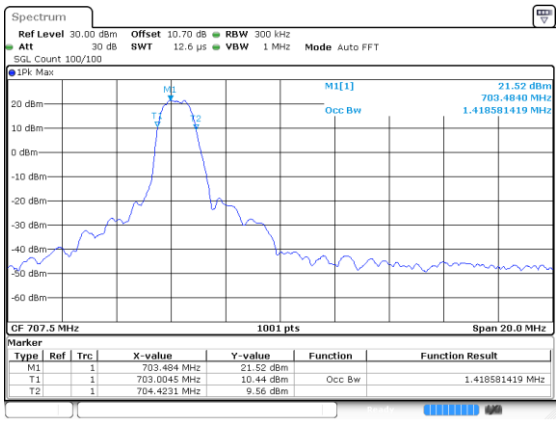
Lowest Channel / 10MHz / QPSK



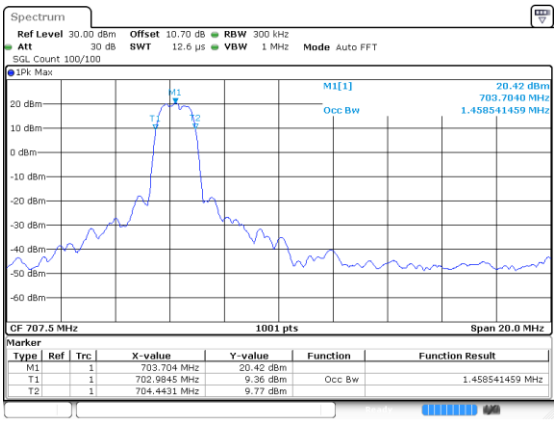
Lowest Channel / 10MHz / 16QAM



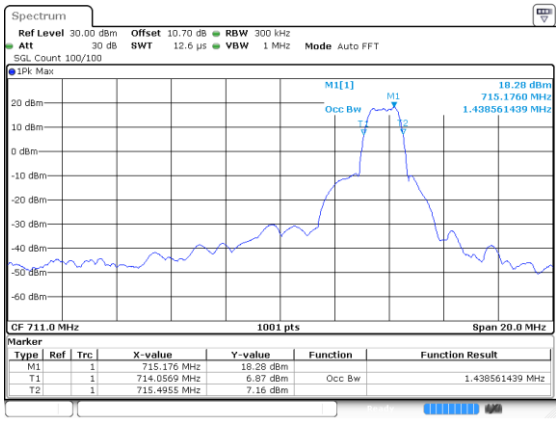
Middle Channel / 10MHz / QPSK



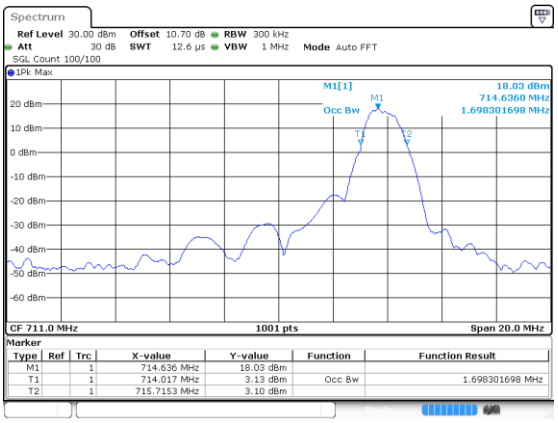
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



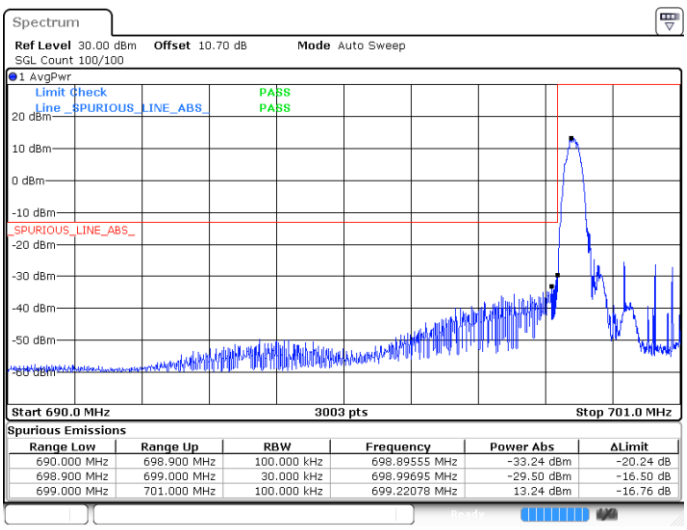
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB

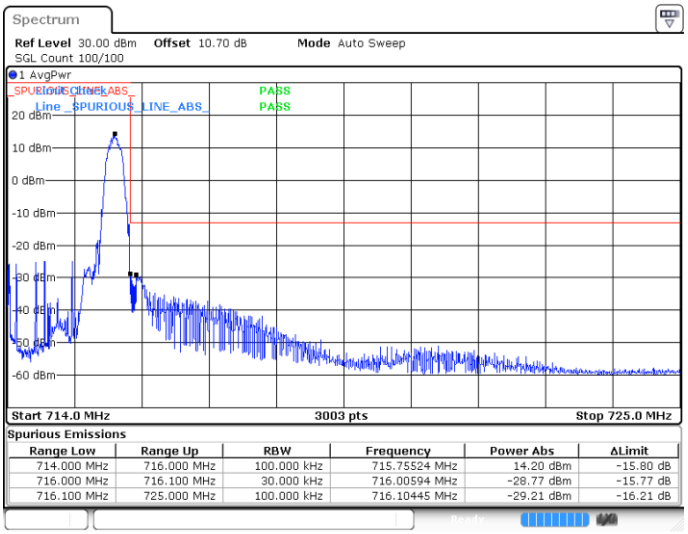


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.24 dBm	-20.24 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99695 MHz	-29.50 dBm	-16.50 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.22078 MHz	13.24 dBm	-16.76 dB

Date: 24.FEB.2020 20:28:29

Highest Band Edge / 1RB

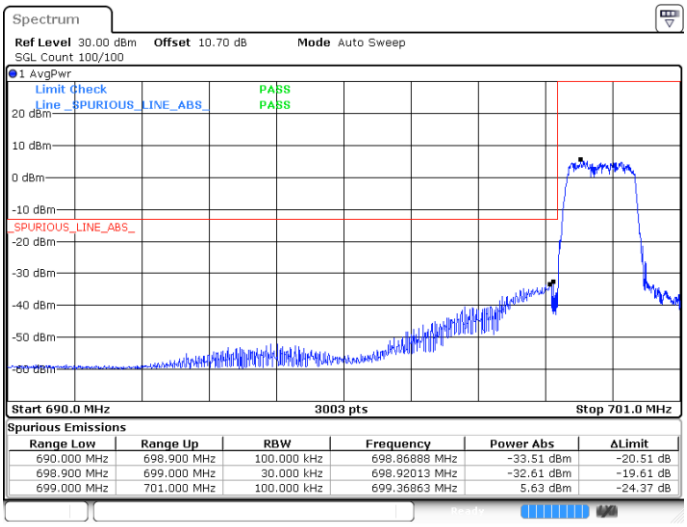


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.75524 MHz	14.20 dBm	-15.80 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00594 MHz	-28.77 dBm	-15.77 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.21 dBm	-16.21 dB

Date: 24.FEB.2020 20:41:36

Lowest Band Edge / Full RB

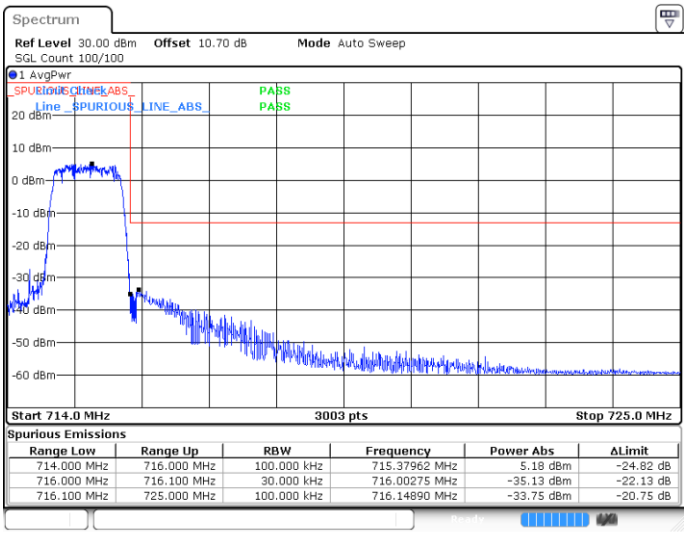


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.86888 MHz	-33.51 dBm	-20.51 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.92013 MHz	-32.61 dBm	-19.61 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.36863 MHz	5.63 dBm	-24.37 dB

Date: 24.FEB.2020 20:25:09

Highest Band Edge / Full RB



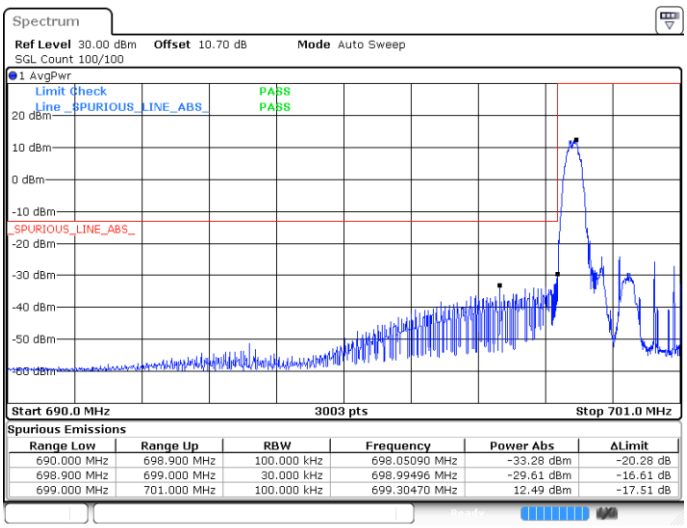
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.37962 MHz	5.18 dBm	-24.82 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00275 MHz	-35.13 dBm	-22.13 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14890 MHz	-33.75 dBm	-20.75 dB

Date: 24.FEB.2020 20:38:16

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

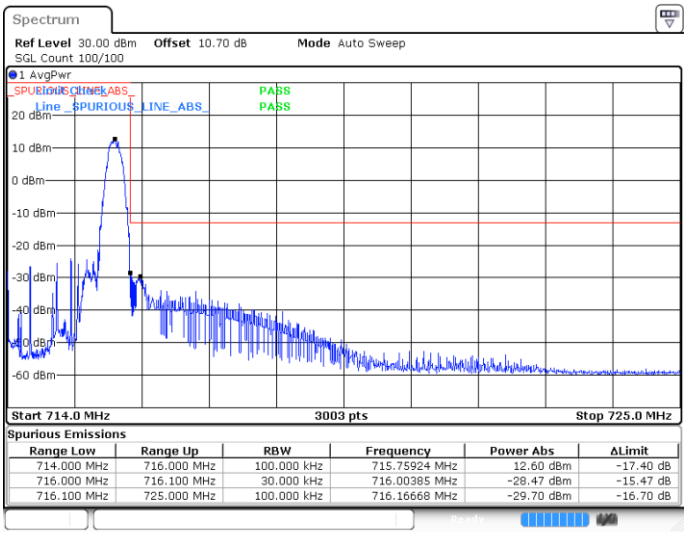


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.05090 MHz	-33.28 dBm	-20.28 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99496 MHz	-29.61 dBm	-16.61 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.30470 MHz	12.49 dBm	-17.51 dB

Date: 24.FEB.2020 20:27:23

Highest Band Edge / 1 RB

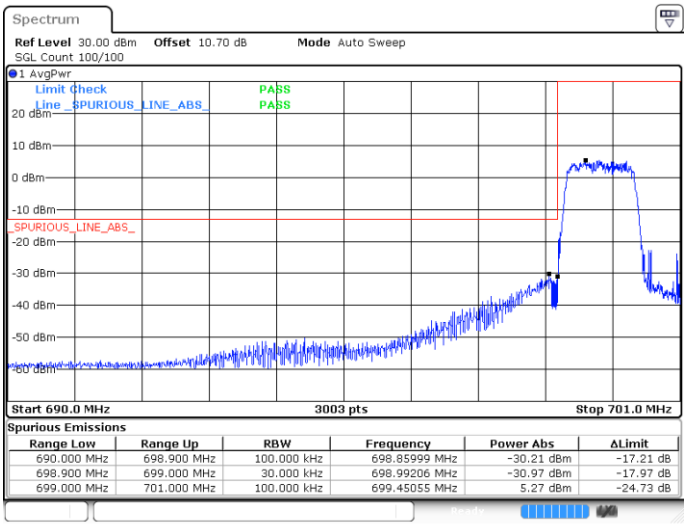


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.75924 MHz	12.60 dBm	-17.40 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00385 MHz	-28.47 dBm	-15.47 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.16668 MHz	-29.70 dBm	-16.70 dB

Date: 24.FEB.2020 20:40:29

Lowest Band Edge / Full RB

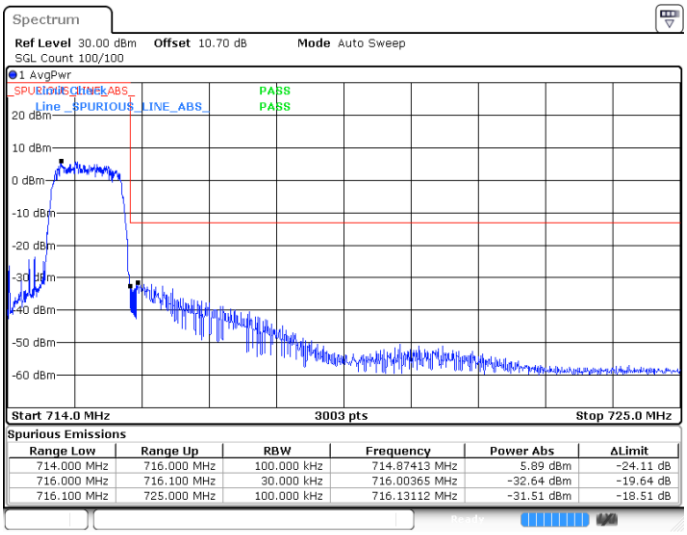


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85999 MHz	-30.21 dBm	-17.21 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99206 MHz	-30.97 dBm	-17.97 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.45055 MHz	5.27 dBm	-24.73 dB

Date: 24.FEB.2020 20:26:16

Highest Band Edge / Full RB



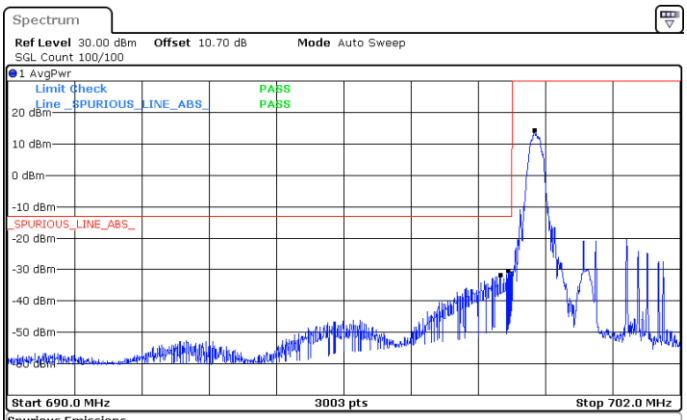
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	714.87413 MHz	5.89 dBm	-24.11 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00365 MHz	-32.64 dBm	-19.64 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.13112 MHz	-31.51 dBm	-18.51 dB

Date: 24.FEB.2020 20:39:22

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

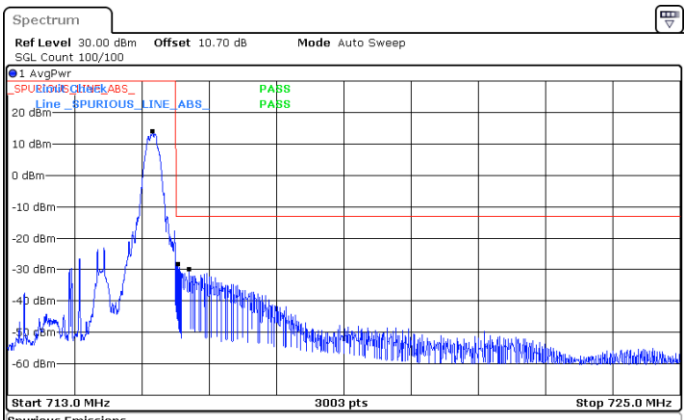


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.79775 MHz	-31.90 dBm	-18.90 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.93611 MHz	-30.50 dBm	-17.50 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.39710 MHz	14.19 dBm	-15.81 dB

Date: 26.FEB.2020 10:08:21

Highest Band Edge / 1 RB

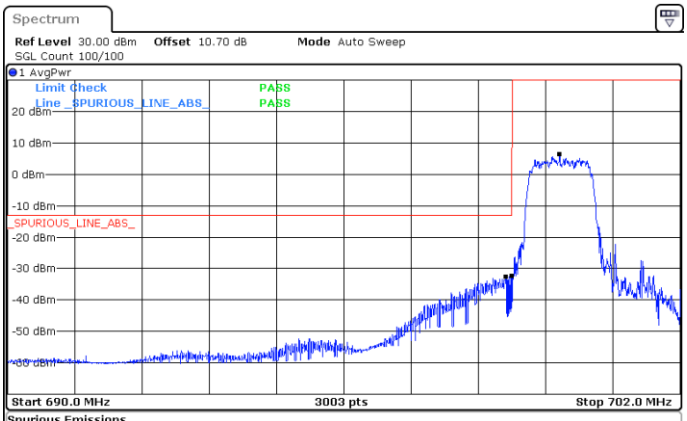


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.58492 MHz	13.97 dBm	-16.03 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.03142 MHz	-28.34 dBm	-15.34 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.23781 MHz	-29.94 dBm	-16.94 dB

Date: 26.FEB.2020 10:15:54

Lowest Band Edge / Full RB

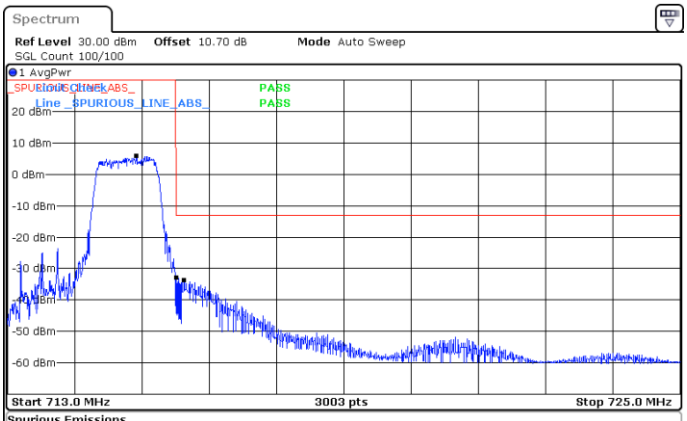


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-32.69 dBm	-19.69 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99296 MHz	-32.34 dBm	-19.34 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.84665 MHz	6.36 dBm	-23.64 dB

Date: 26.FEB.2020 10:05:01

Highest Band Edge / Full RB



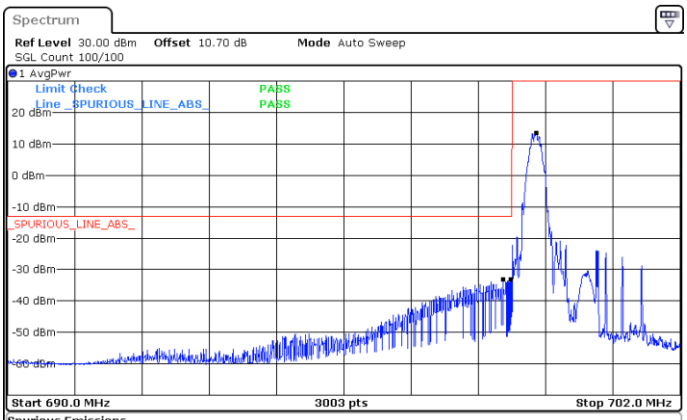
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.30020 MHz	6.00 dBm	-24.00 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01304 MHz	-32.99 dBm	-19.99 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14001 MHz	-33.65 dBm	-20.65 dB

Date: 26.FEB.2020 10:12:33

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

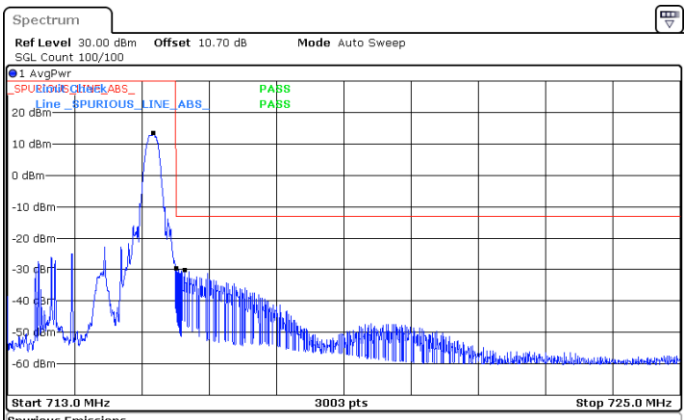


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.83332 MHz	-33.21 dBm	-20.21 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.97278 MHz	-33.11 dBm	-20.11 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.43307 MHz	13.37 dBm	-16.63 dB

Date: 26.FEB.2020 10:07:15

Highest Band Edge / 1 RB

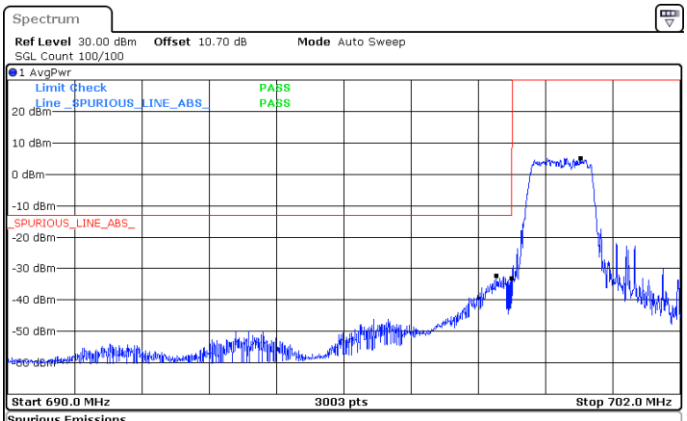


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.60589 MHz	13.49 dBm	-16.51 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00874 MHz	-29.61 dBm	-16.61 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.15779 MHz	-30.21 dBm	-17.21 dB

Date: 26.FEB.2020 10:14:47

Lowest Band Edge / Full RB

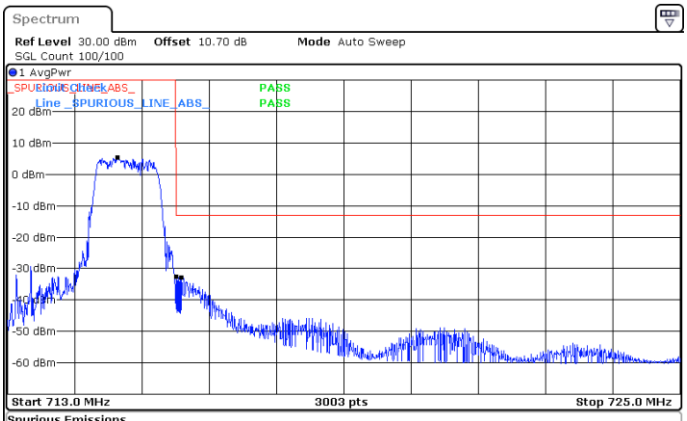


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.71773 MHz	-32.41 dBm	-19.41 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99835 MHz	-33.12 dBm	-20.12 dB
699.000 MHz	702.000 MHz	100.000 kHz	700.21528 MHz	5.13 dBm	-24.87 dB

Date: 26.FEB.2020 10:06:08

Highest Band Edge / Full RB



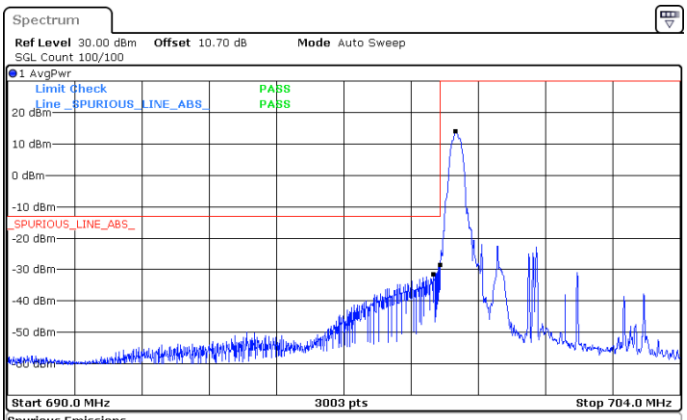
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.95554 MHz	5.27 dBm	-24.73 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00544 MHz	-32.72 dBm	-19.72 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.79 dBm	-19.79 dB

Date: 26.FEB.2020 10:13:40

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

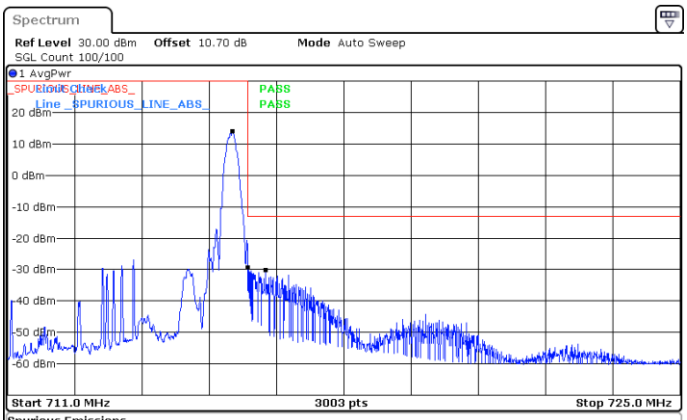


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85999 MHz	-31.38 dBm	-18.38 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99535 MHz	-28.53 dBm	-15.53 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.31219 MHz	13.89 dBm	-16.11 dB

Date: 26.FEB.2020 10:28:18

Highest Band Edge / 1 RB

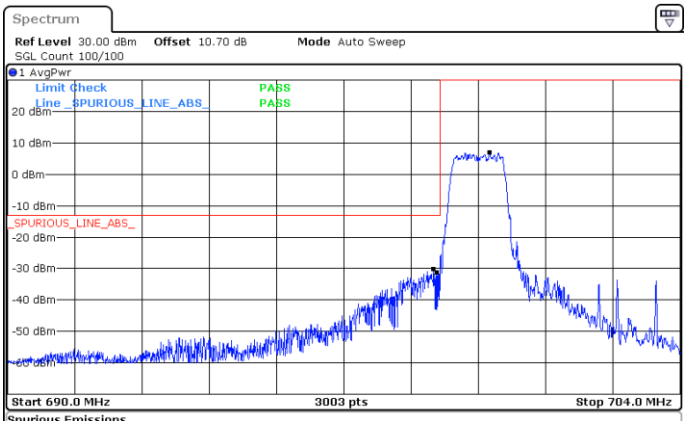


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.68781 MHz	14.07 dBm	-15.93 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00065 MHz	-29.37 dBm	-16.37 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.37118 MHz	-30.07 dBm	-17.07 dB

Date: 26.FEB.2020 10:36:09

Lowest Band Edge / Full RB

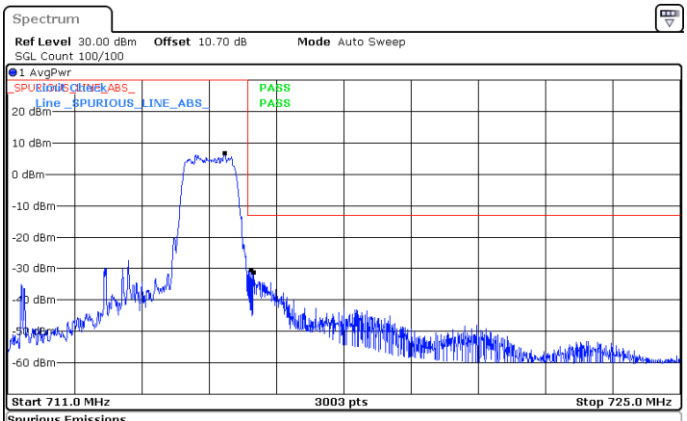


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85999 MHz	-30.21 dBm	-17.21 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.92233 MHz	-31.26 dBm	-18.26 dB
699.000 MHz	704.000 MHz	100.000 kHz	700.03147 MHz	7.06 dBm	-22.94 dB

Date: 26.FEB.2020 10:24:58

Highest Band Edge / Full RB



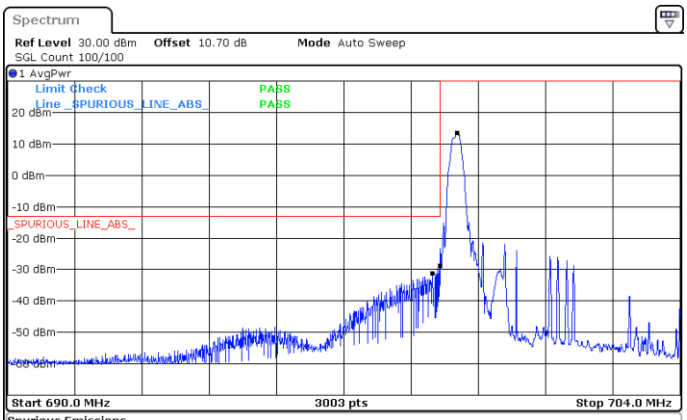
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.52298 MHz	6.65 dBm	-23.35 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.06558 MHz	-30.48 dBm	-17.48 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-31.34 dBm	-18.34 dB

Date: 26.FEB.2020 10:33:56

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

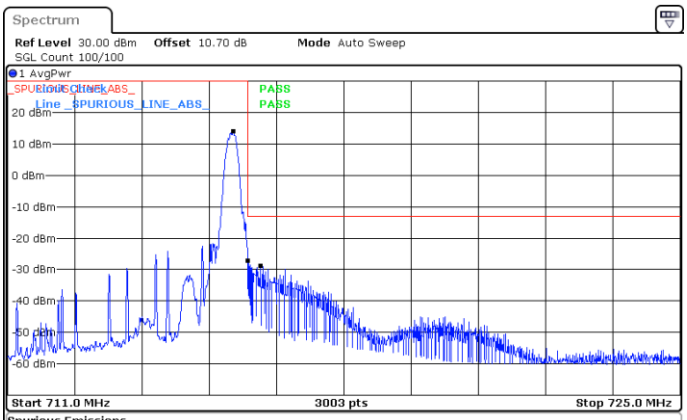


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.84221 MHz	-31.26 dBm	-18.26 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99545 MHz	-28.85 dBm	-15.85 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.35215 MHz	13.47 dBm	-16.53 dB

Date: 26.FEB.2020 10:27:12

Highest Band Edge / 1 RB

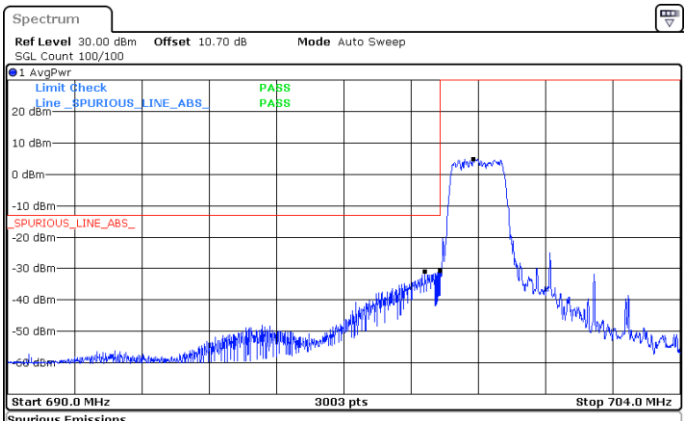


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.69281 MHz	14.01 dBm	-15.99 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00235 MHz	-27.13 dBm	-14.13 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.26449 MHz	-28.93 dBm	-15.93 dB

Date: 26.FEB.2020 10:37:16

Lowest Band Edge / Full RB

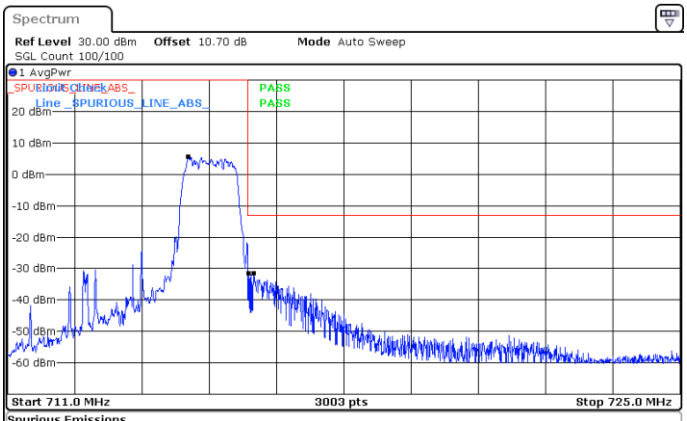


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.68217 MHz	-30.98 dBm	-17.98 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99585 MHz	-30.62 dBm	-17.62 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.69181 MHz	4.81 dBm	-25.19 dB

Date: 26.FEB.2020 10:26:05

Highest Band Edge / Full RB



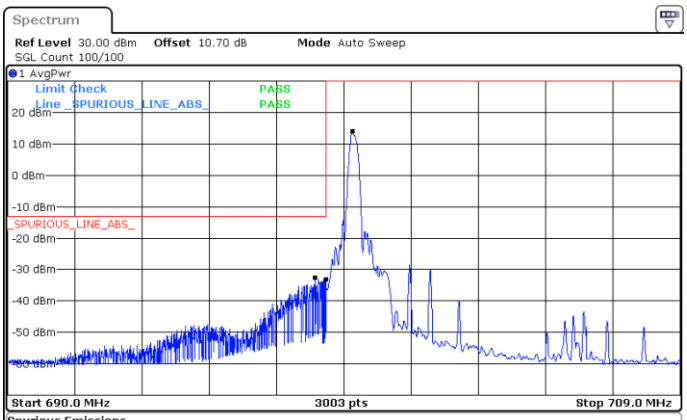
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	714.75874 MHz	5.63 dBm	-24.37 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.02043 MHz	-31.42 dBm	-18.42 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-31.54 dBm	-18.54 dB

Date: 26.FEB.2020 10:35:02

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

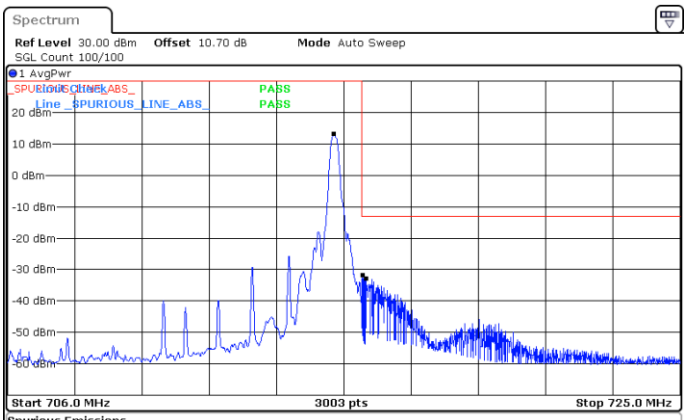


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.69106 MHz	-32.68 dBm	-19.68 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.98766 MHz	-33.13 dBm	-20.13 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.73427 MHz	14.01 dBm	-15.99 dB

Date: 26.FEB.2020 10:51:59

Highest Band Edge / 1 RB

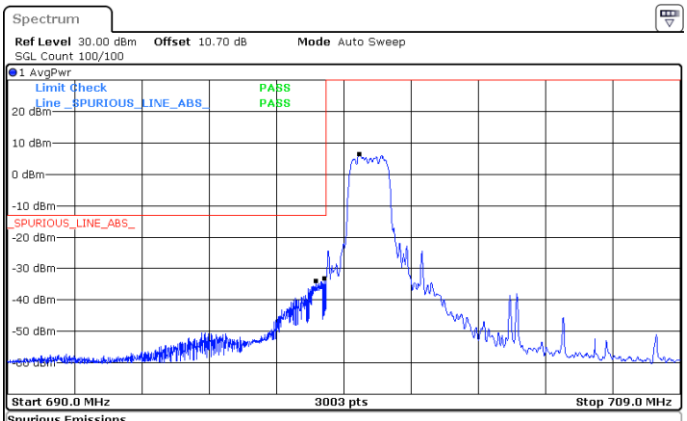


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.21578 MHz	13.18 dBm	-16.82 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.03072 MHz	-31.77 dBm	-18.77 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-32.90 dBm	-19.90 dB

Date: 26.FEB.2020 11:01:12

Lowest Band Edge / Full RB

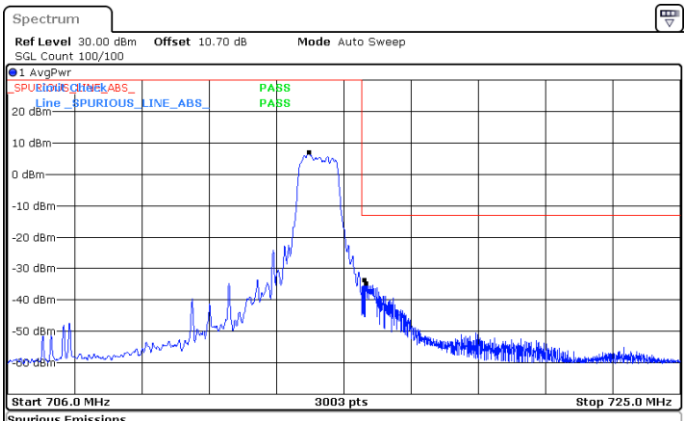


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.70884 MHz	-33.90 dBm	-20.90 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.94700 MHz	-33.12 dBm	-20.12 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.93407 MHz	6.46 dBm	-23.54 dB

Date: 26.FEB.2020 10:48:38

Highest Band Edge / Full RB



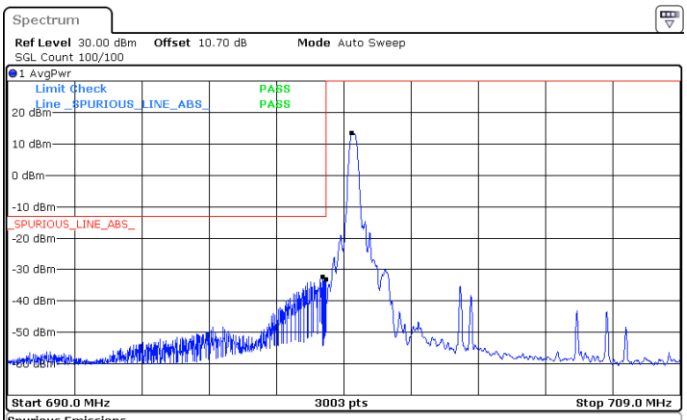
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	714.50649 MHz	6.94 dBm	-23.06 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.08027 MHz	-33.65 dBm	-20.65 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.13112 MHz	-34.88 dBm	-21.88 dB

Date: 26.FEB.2020 10:57:52

LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

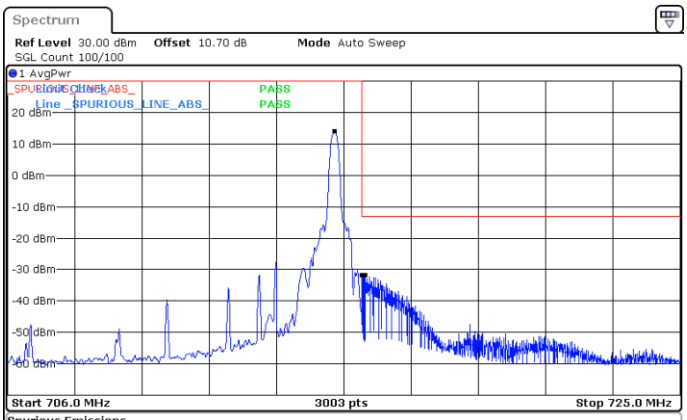


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.29 dBm	-19.29 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99226 MHz	-33.08 dBm	-20.08 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.72428 MHz	13.35 dBm	-16.65 dB

Date: 26.FEB.2020 10:50:52

Highest Band Edge / 1 RB

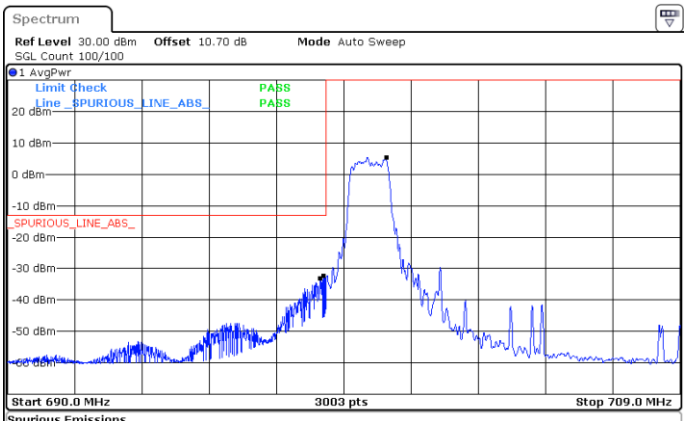


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.23576 MHz	14.12 dBm	-15.88 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-31.82 dBm	-18.82 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.70 dBm	-18.70 dB

Date: 26.FEB.2020 11:00:06

Lowest Band Edge / Full RB

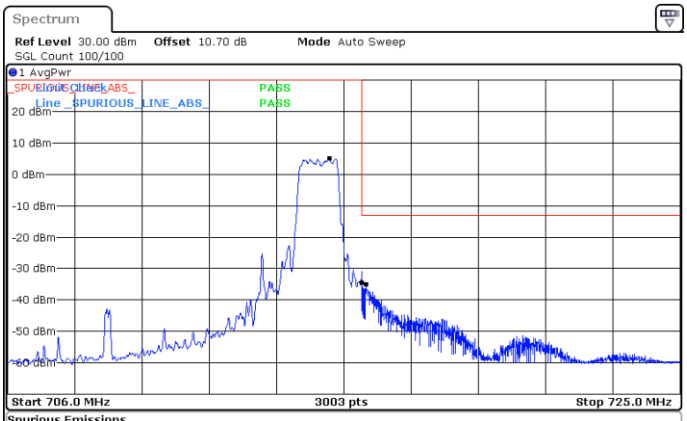


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.82443 MHz	-33.05 dBm	-20.05 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.93332 MHz	-32.33 dBm	-19.33 dB
699.000 MHz	709.000 MHz	100.000 kHz	700.69331 MHz	5.42 dBm	-24.58 dB

Date: 26.FEB.2020 10:49:45

Highest Band Edge / Full RB



Spurious Emissions

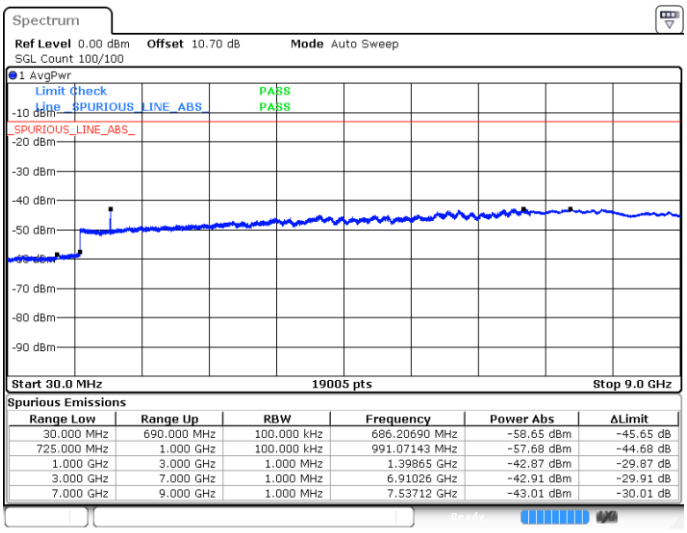
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.09590 MHz	4.95 dBm	-25.05 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00624 MHz	-34.39 dBm	-21.39 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-35.01 dBm	-22.01 dB

Date: 26.FEB.2020 10:58:59

Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

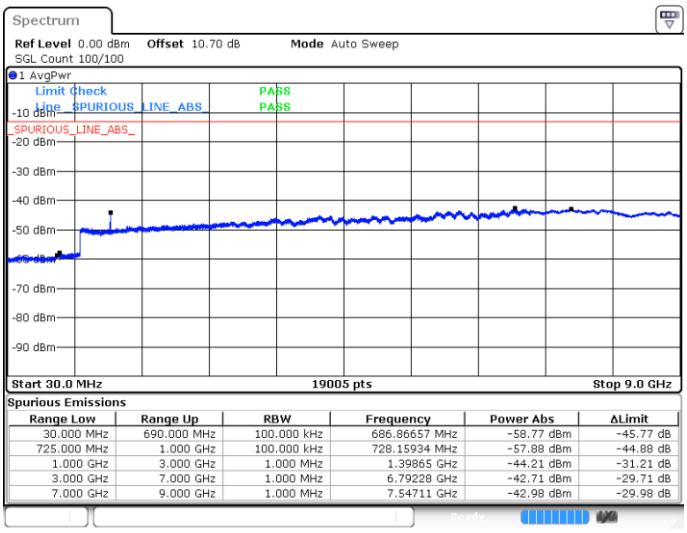


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.20690 MHz	-58.65 dBm	-45.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.07143 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-42.87 dBm	-29.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91026 GHz	-42.91 dBm	-29.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53712 GHz	-43.01 dBm	-30.01 dB

Date: 24.FEB.2020 20:29:17

Lowest Channel / 16QAM

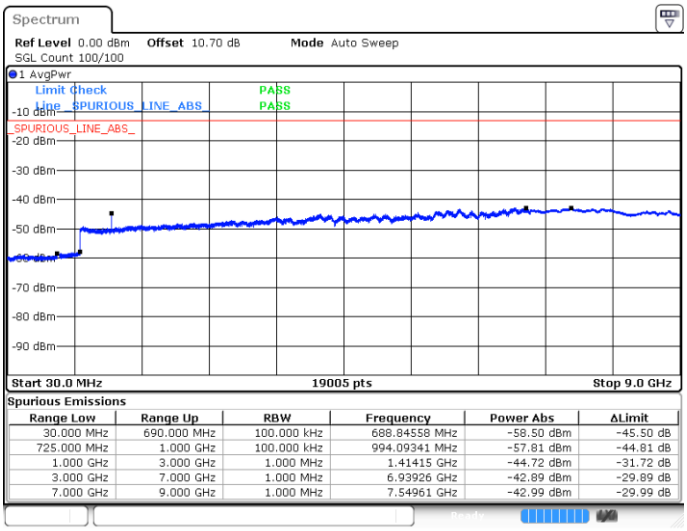


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-58.77 dBm	-45.77 dB
725.000 MHz	1.000 GHz	100.000 kHz	728.15934 MHz	-57.88 dBm	-44.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.21 dBm	-31.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79228 GHz	-42.71 dBm	-29.71 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-42.98 dBm	-29.98 dB

Date: 24.FEB.2020 20:30:04

Middle Channel / QPSK

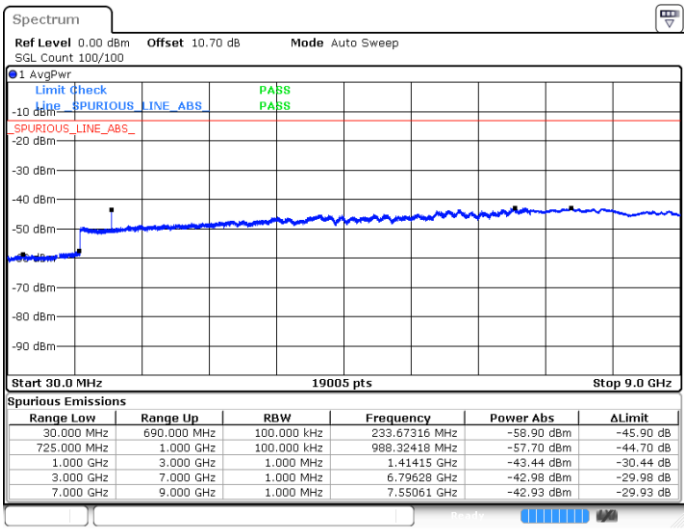


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.84558 MHz	-58.50 dBm	-45.50 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.09341 MHz	-57.81 dBm	-44.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-44.72 dBm	-31.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93926 GHz	-42.89 dBm	-29.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54961 GHz	-42.99 dBm	-29.99 dB

Date: 24.FEB.2020 20:18:59

Middle Channel / 16QAM



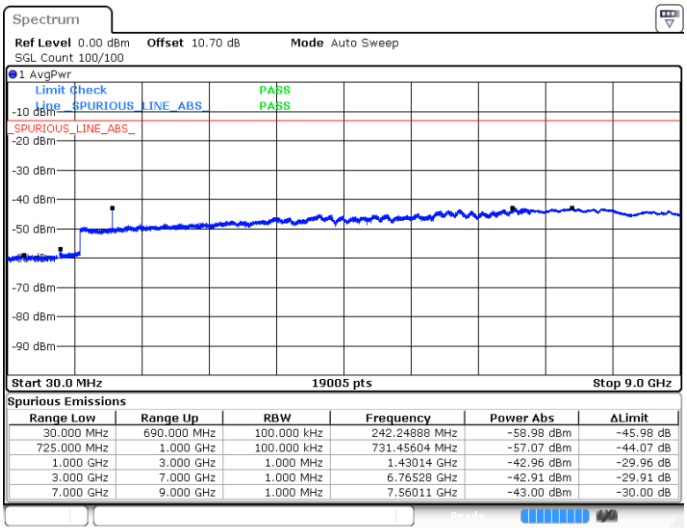
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.67316 MHz	-58.90 dBm	-45.90 dB
725.000 MHz	1.000 GHz	100.000 kHz	988.32418 MHz	-57.70 dBm	-44.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-43.44 dBm	-30.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79628 GHz	-42.98 dBm	-29.98 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-42.93 dBm	-29.93 dB

Date: 24.FEB.2020 20:18:13

LTE Band 12 / 1.4MHz

Highest Channel / QPSK

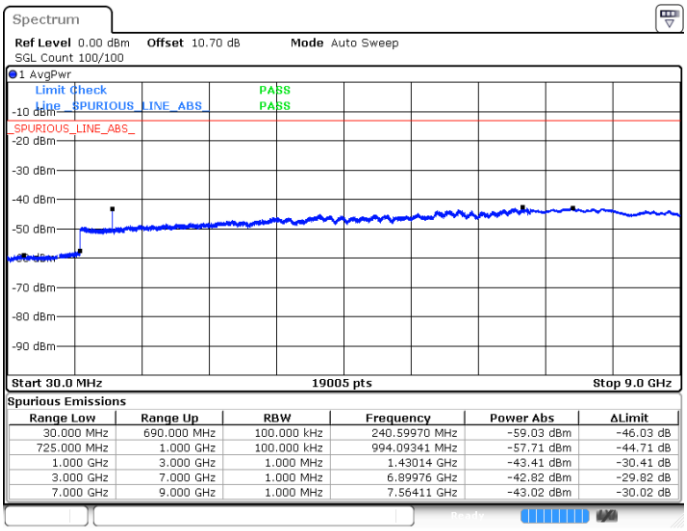


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	242.24888 MHz	-58.98 dBm	-45.98 dB
725.000 MHz	1.000 GHz	100.000 kHz	731.45604 MHz	-57.07 dBm	-44.07 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-42.96 dBm	-29.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.76528 GHz	-42.91 dBm	-29.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56011 GHz	-43.00 dBm	-30.00 dB

Date: 24.FEB.2020 20:42:23

Highest Channel / 16QAM



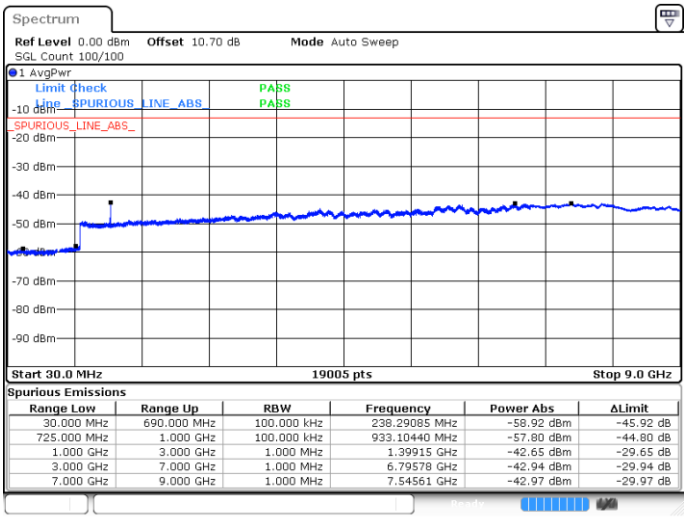
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	240.59970 MHz	-59.03 dBm	-46.03 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.09341 MHz	-57.71 dBm	-44.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-43.41 dBm	-30.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89976 GHz	-42.82 dBm	-29.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56411 GHz	-43.02 dBm	-30.02 dB

Date: 24.FEB.2020 20:43:10

LTE Band 12 / 3MHz

Lowest Channel / QPSK

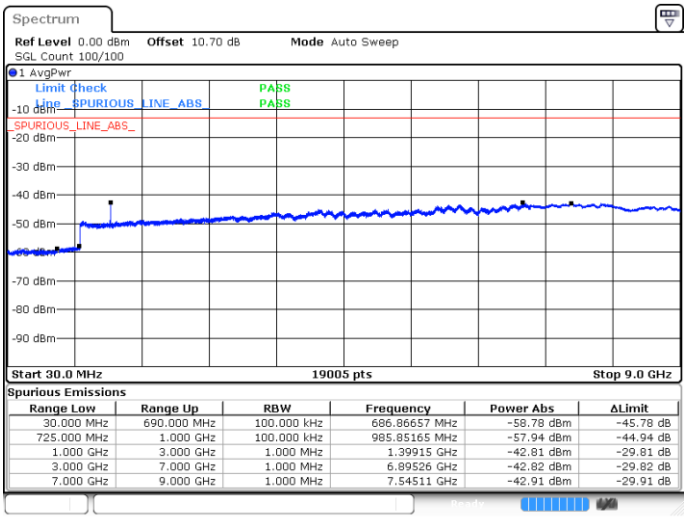


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	238.29085 MHz	-58.92 dBm	-45.92 dB
725.000 MHz	1.000 GHz	100.000 kHz	933.10440 MHz	-57.80 dBm	-44.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-42.65 dBm	-29.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79578 GHz	-42.94 dBm	-29.94 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54561 GHz	-42.97 dBm	-29.97 dB

Date: 26.FEB.2020 10:09:09

Lowest Channel / 16QAM



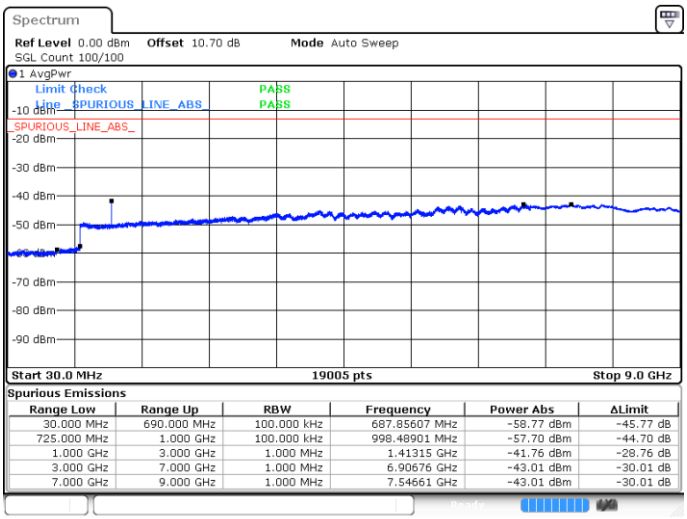
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-58.78 dBm	-45.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	985.85165 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-42.81 dBm	-29.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89526 GHz	-42.82 dBm	-29.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54511 GHz	-42.91 dBm	-29.91 dB

Date: 26.FEB.2020 10:09:55

LTE Band 12 / 3MHz

Middle Channel / QPSK

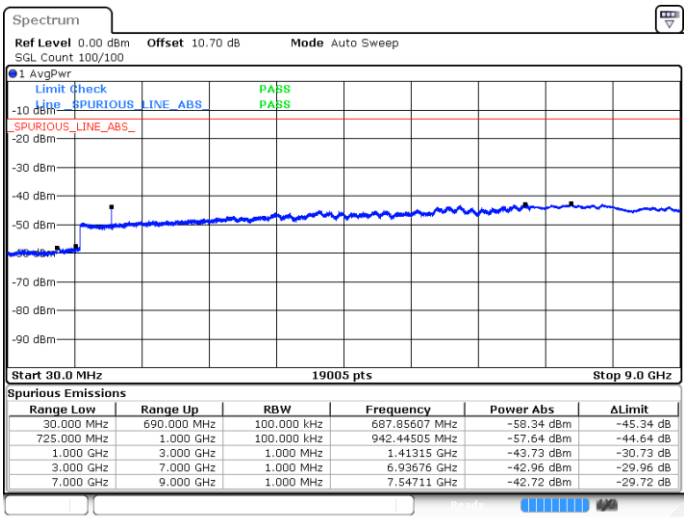


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.85607 MHz	-58.77 dBm	-45.77 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.48901 MHz	-57.70 dBm	-44.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41315 GHz	-41.76 dBm	-28.76 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90676 GHz	-43.01 dBm	-30.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54661 GHz	-43.01 dBm	-30.01 dB

Date: 26.FEB.2020 10:00:05

Middle Channel / 16QAM

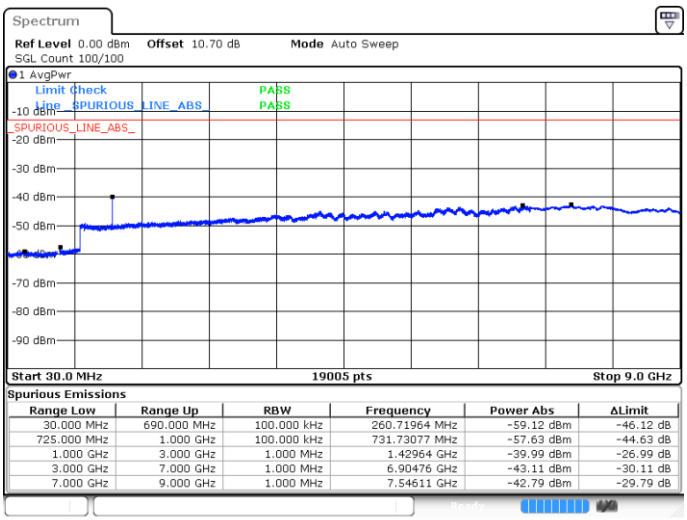


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.85607 MHz	-58.34 dBm	-45.34 dB
725.000 MHz	1.000 GHz	100.000 kHz	942.44505 MHz	-57.64 dBm	-44.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41315 GHz	-43.73 dBm	-30.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93676 GHz	-42.96 dBm	-29.96 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-42.72 dBm	-29.72 dB

Date: 26.FEB.2020 09:59:18

Highest Channel / QPSK

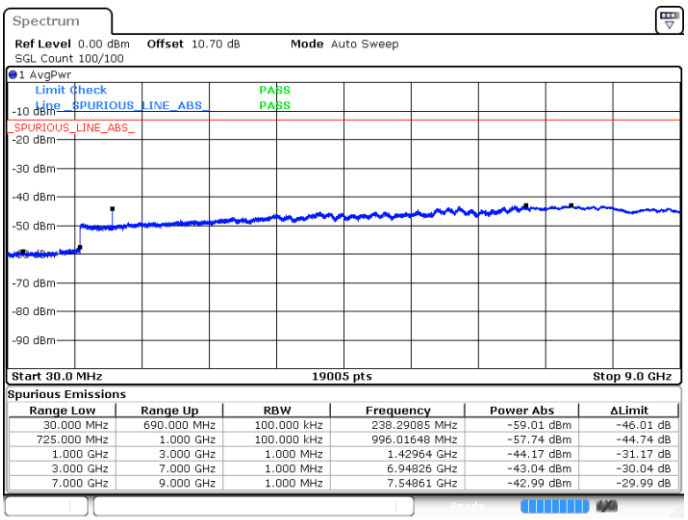


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	260.71964 MHz	-59.12 dBm	-46.12 dB
725.000 MHz	1.000 GHz	100.000 kHz	731.73077 MHz	-57.63 dBm	-44.63 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42964 GHz	-39.99 dBm	-26.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90476 GHz	-43.11 dBm	-30.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54611 GHz	-42.79 dBm	-29.79 dB

Date: 26.FEB.2020 10:16:41

Highest Channel / 16QAM



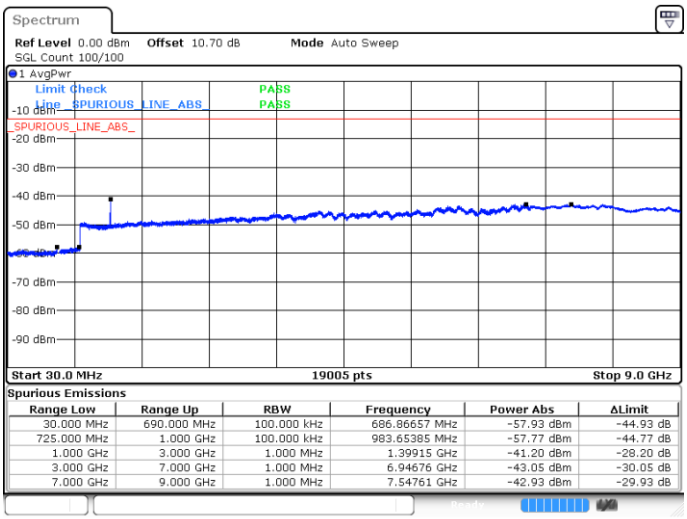
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	238.29085 MHz	-59.01 dBm	-46.01 dB
725.000 MHz	1.000 GHz	100.000 kHz	996.01648 MHz	-57.74 dBm	-44.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42964 GHz	-44.17 dBm	-31.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94826 GHz	-43.04 dBm	-30.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54861 GHz	-42.99 dBm	-29.99 dB

Date: 26.FEB.2020 10:17:28

LTE Band 12 / 5MHz

Lowest Channel / QPSK

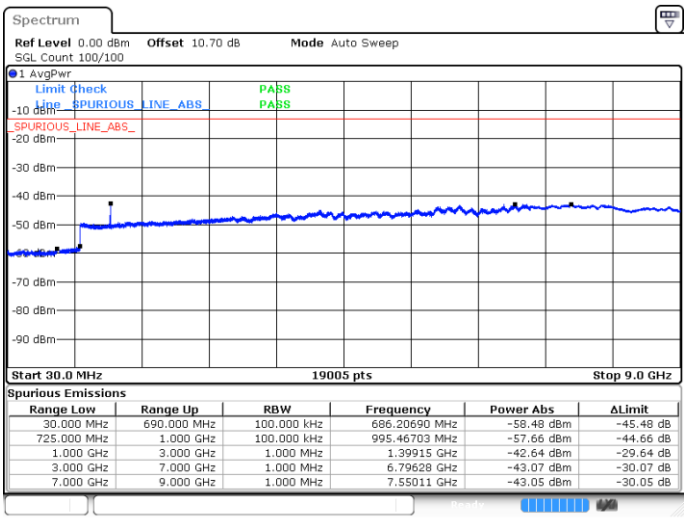


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-57.93 dBm	-44.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	983.65385 MHz	-57.77 dBm	-44.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-41.20 dBm	-28.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94676 GHz	-43.05 dBm	-30.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54761 GHz	-42.93 dBm	-29.93 dB

Date: 26.FEB.2020 10:29:06

Lowest Channel / 16QAM

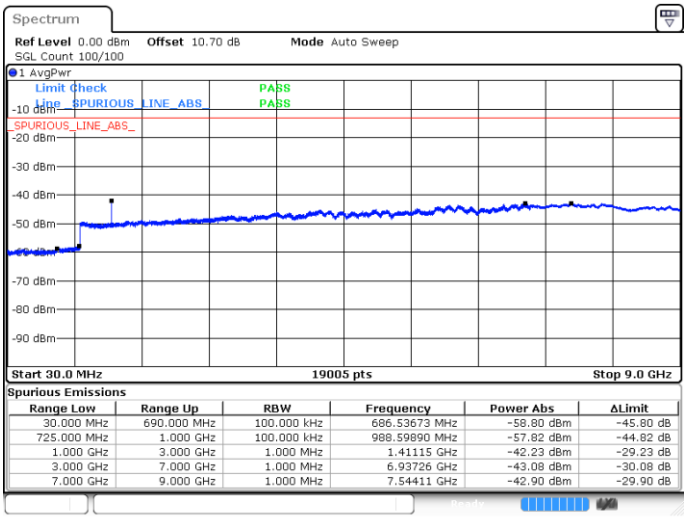


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.20690 MHz	-58.48 dBm	-45.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.46703 MHz	-57.66 dBm	-44.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-42.64 dBm	-29.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79628 GHz	-43.07 dBm	-30.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55011 GHz	-43.05 dBm	-30.05 dB

Date: 26.FEB.2020 10:29:53

Middle Channel / QPSK

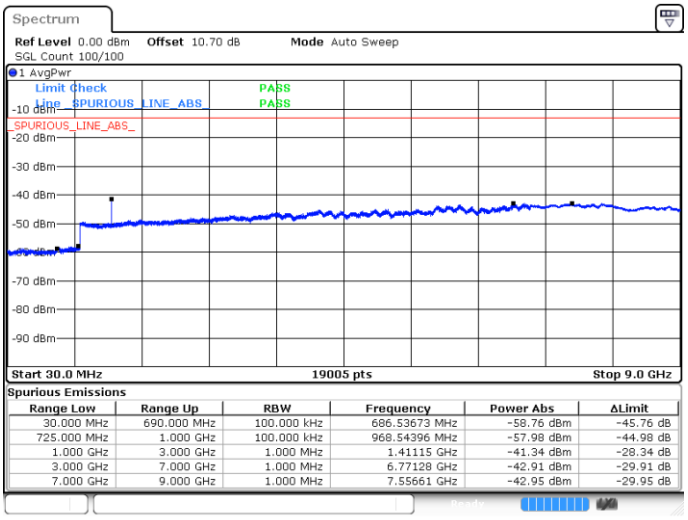


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.53673 MHz	-58.80 dBm	-45.80 dB
725.000 MHz	1.000 GHz	100.000 kHz	988.59890 MHz	-57.82 dBm	-44.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-42.23 dBm	-29.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93726 GHz	-43.08 dBm	-30.08 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54411 GHz	-42.90 dBm	-29.90 dB

Date: 26.FEB.2020 10:21:50

Middle Channel / 16QAM



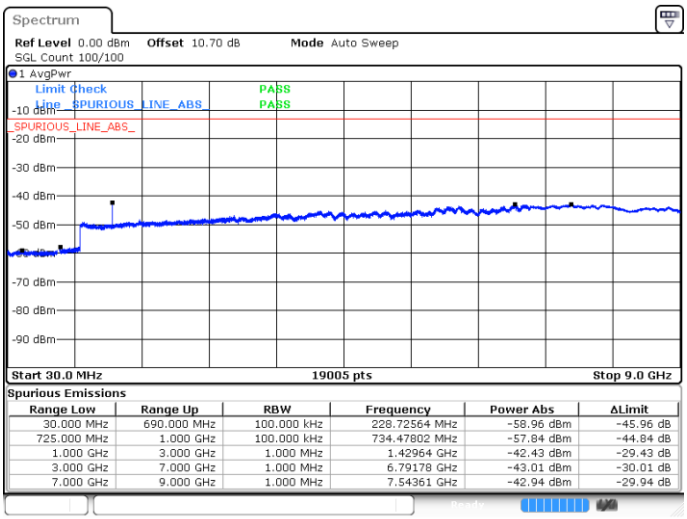
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.53673 MHz	-58.76 dBm	-45.76 dB
725.000 MHz	1.000 GHz	100.000 kHz	968.54396 MHz	-57.98 dBm	-44.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-41.34 dBm	-28.34 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77128 GHz	-42.91 dBm	-29.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55661 GHz	-42.95 dBm	-29.95 dB

Date: 26.FEB.2020 10:21:04

LTE Band 12 / 5MHz

Highest Channel / QPSK

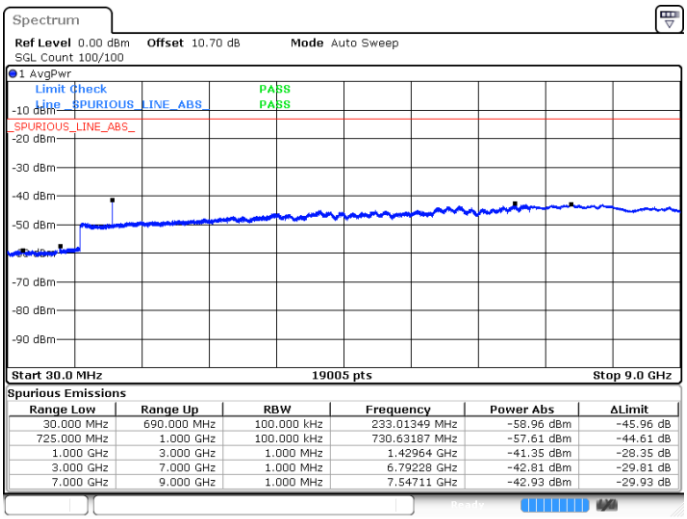


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	228.72564 MHz	-58.96 dBm	-45.96 dB
725.000 MHz	1.000 GHz	100.000 kHz	734.47802 MHz	-57.84 dBm	-44.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42964 GHz	-42.43 dBm	-29.43 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79178 GHz	-43.01 dBm	-30.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54361 GHz	-42.94 dBm	-29.94 dB

Date: 26.FEB.2020 10:38:50

Highest Channel / 16QAM



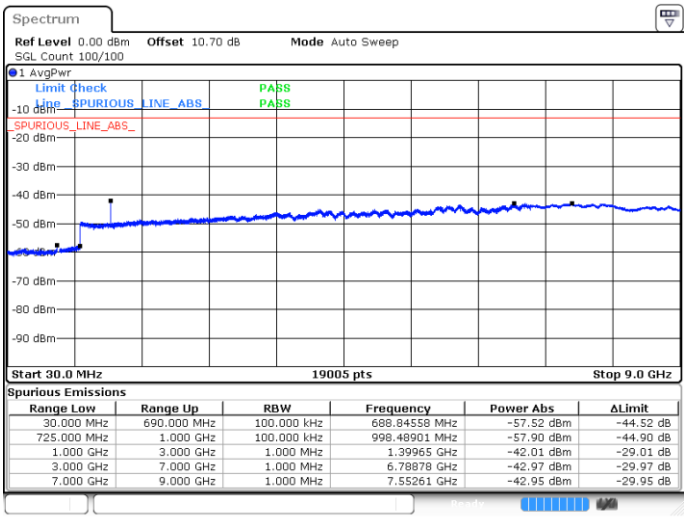
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.01349 MHz	-58.96 dBm	-45.96 dB
725.000 MHz	1.000 GHz	100.000 kHz	730.63187 MHz	-57.61 dBm	-44.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42964 GHz	-41.35 dBm	-28.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79228 GHz	-42.81 dBm	-29.81 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-42.93 dBm	-29.93 dB

Date: 26.FEB.2020 10:38:03

LTE Band 12 / 10MHz

Lowest Channel / QPSK

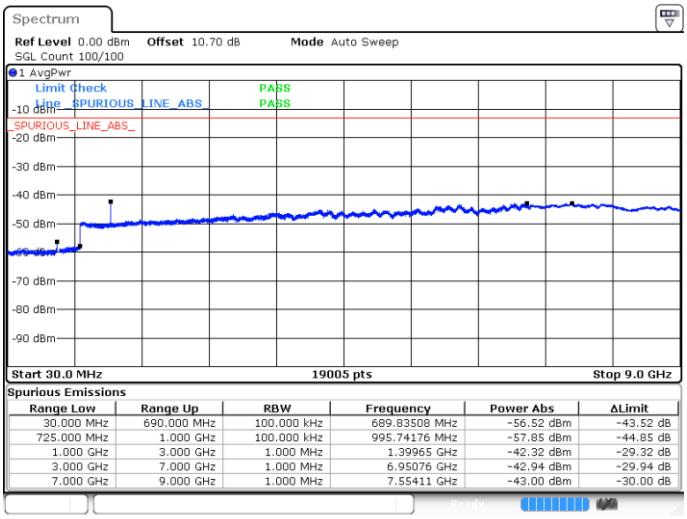


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.84558 MHz	-57.52 dBm	-44.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.48901 MHz	-57.90 dBm	-44.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-42.01 dBm	-29.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78878 GHz	-42.97 dBm	-29.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55261 GHz	-42.95 dBm	-29.95 dB

Date: 26.FEB.2020 10:52:46

Lowest Channel / 16QAM



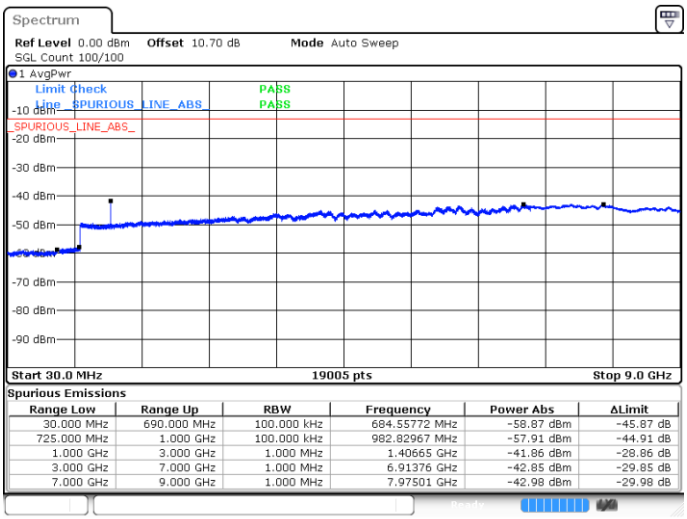
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-56.52 dBm	-43.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.74176 MHz	-57.85 dBm	-44.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-42.32 dBm	-29.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95076 GHz	-42.94 dBm	-29.94 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55411 GHz	-43.00 dBm	-30.00 dB

Date: 26.FEB.2020 10:53:33

LTE Band 12 / 10MHz

Middle Channel / QPSK

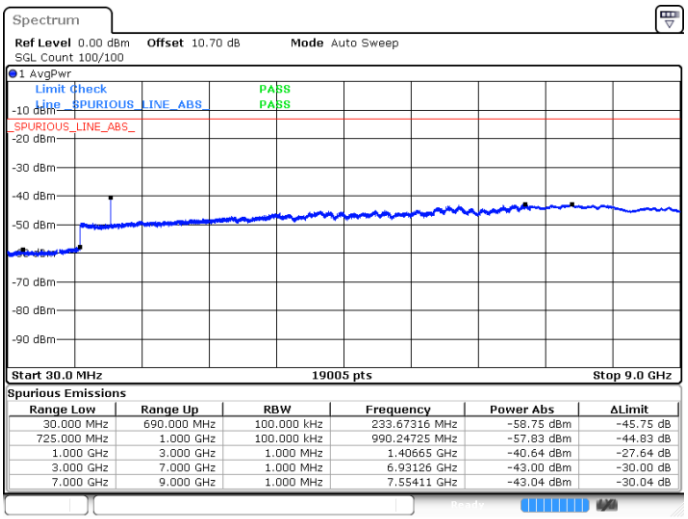


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	684.55772 MHz	-58.87 dBm	-45.87 dB
725.000 MHz	1.000 GHz	100.000 kHz	982.82967 MHz	-57.91 dBm	-44.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-41.86 dBm	-28.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91376 GHz	-42.85 dBm	-29.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.97501 GHz	-42.98 dBm	-29.98 dB

Date: 26.FEB.2020 10:42:57

Middle Channel / 16QAM

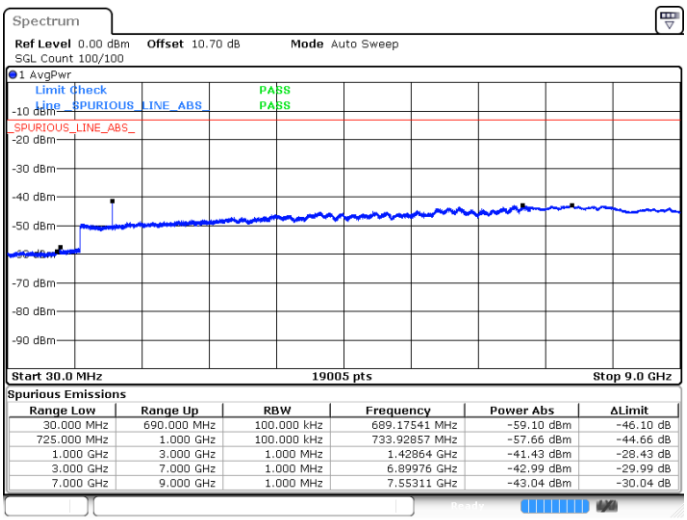


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.67316 MHz	-58.75 dBm	-45.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	990.24725 MHz	-57.83 dBm	-44.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-40.64 dBm	-27.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93126 GHz	-43.00 dBm	-30.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55411 GHz	-43.04 dBm	-30.04 dB

Date: 26.FEB.2020 10:42:10

Highest Channel / QPSK

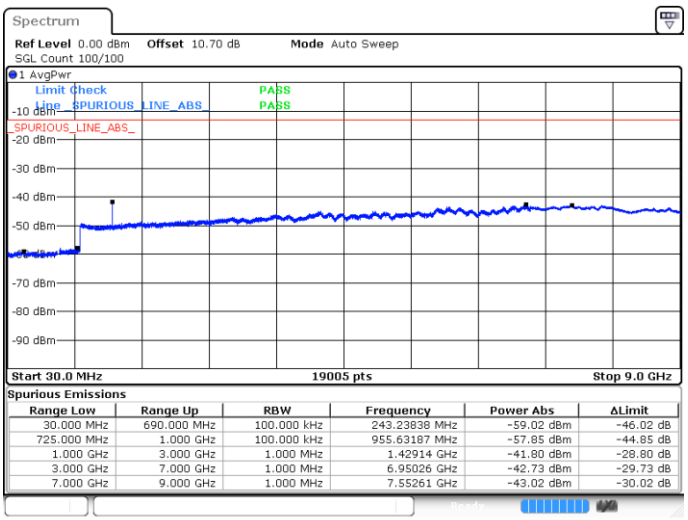


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-59.10 dBm	-46.10 dB
725.000 MHz	1.000 GHz	100.000 kHz	733.92857 MHz	-57.66 dBm	-44.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42864 GHz	-41.43 dBm	-28.43 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89976 GHz	-42.99 dBm	-29.99 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55311 GHz	-43.04 dBm	-30.04 dB

Date: 26.FEB.2020 11:02:00

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	243.23838 MHz	-59.02 dBm	-46.02 dB
725.000 MHz	1.000 GHz	100.000 kHz	955.63187 MHz	-57.85 dBm	-44.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42914 GHz	-41.80 dBm	-28.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95026 GHz	-42.73 dBm	-29.73 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55261 GHz	-43.02 dBm	-30.02 dB

Date: 26.FEB.2020 11:02:46

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0092	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0078	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0082	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0082	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0075	
20	Maximum Voltage	0.0113	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

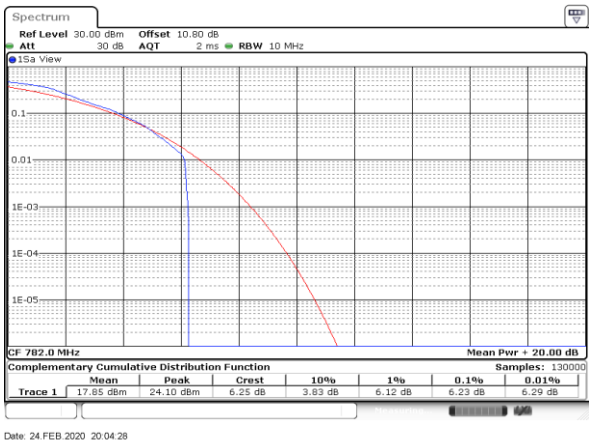
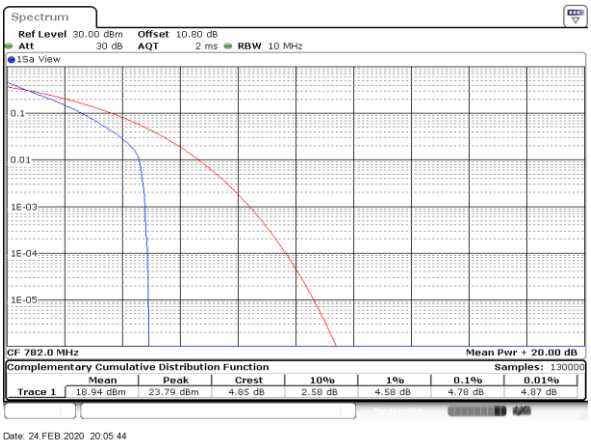
1. Normal Voltage =5.00 V.；Battery End Point (BEP) =4.75 V.；Maximum Voltage =5.25 V.

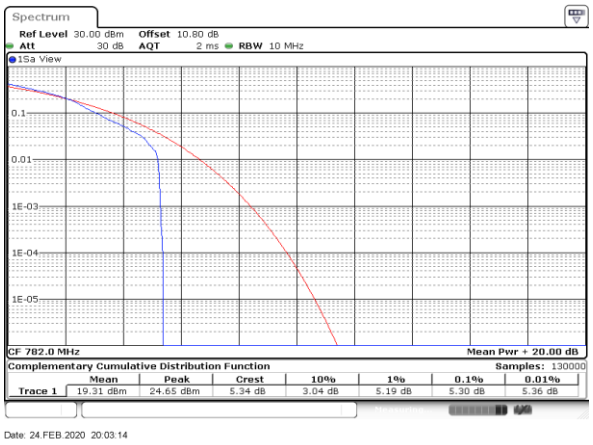
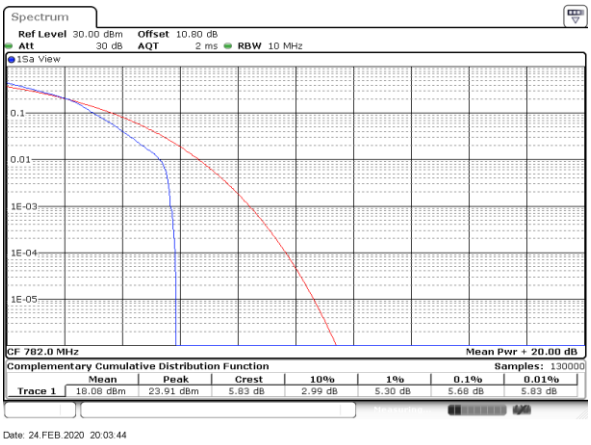
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.23	4.78	5.30	5.68	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	

LTE Band 13 / 10MHz / 16QAM	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	

26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	1.44	1.56	-	-	-	-	-	-
Middle CH	-	-	-	-	1.58	1.34	1.80	1.82	-	-	-	-
Highest CH	-	-	-	-	1.49	1.31	-	-	-	-	-	-