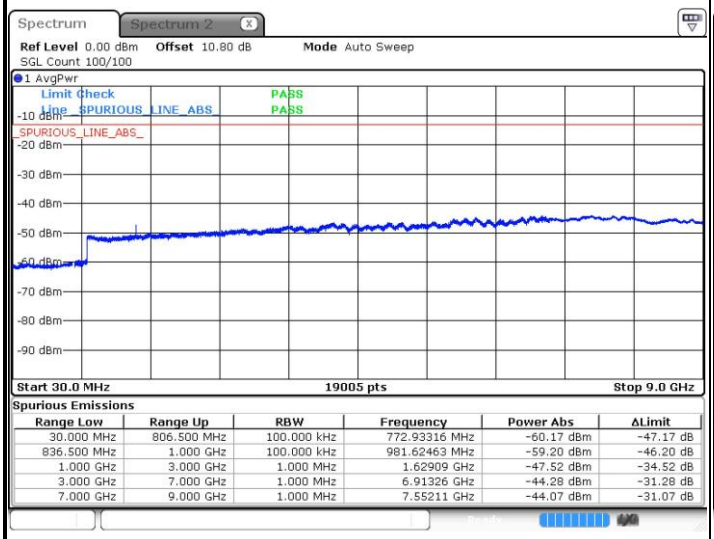
LTE Band 26 / 5MHz

Lowest Channel / QPSK

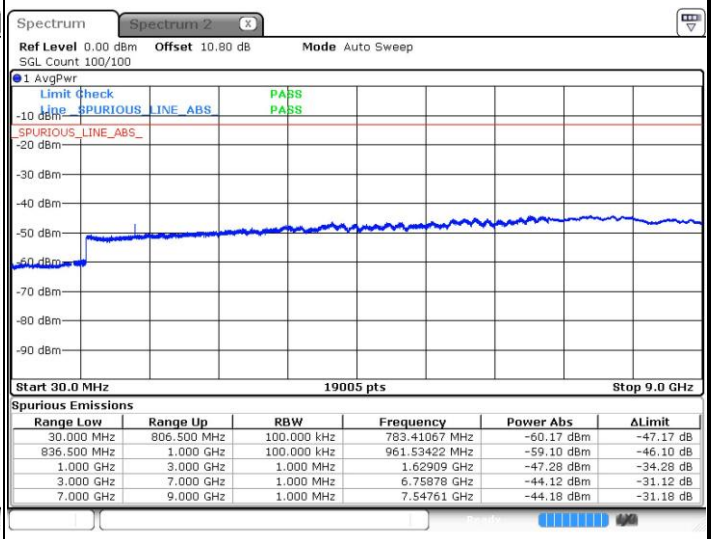


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	772.93316 MHz	-60.17 dBm	-47.17 dB
836.500 MHz	1.000 GHz	100.000 kHz	981.62463 MHz	-59.20 dBm	-46.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-47.52 dBm	-34.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91326 GHz	-44.28 dBm	-31.28 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55211 GHz	-44.07 dBm	-31.07 dB

Date: 31.OCT.2018 20:53:47

Lowest Channel / 16QAM

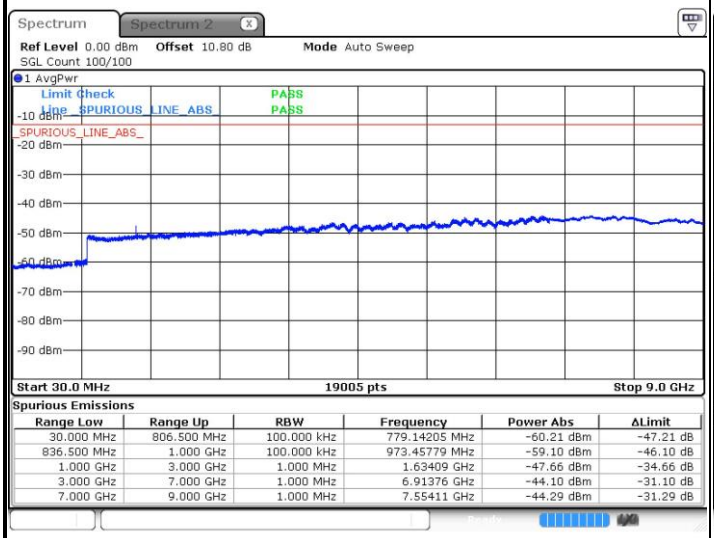


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	783.41067 MHz	-60.17 dBm	-47.17 dB
836.500 MHz	1.000 GHz	100.000 kHz	961.53422 MHz	-59.10 dBm	-46.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.75878 GHz	-44.12 dBm	-31.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54761 GHz	-44.18 dBm	-31.18 dB

Date: 31.OCT.2018 20:54:39

Middle Channel / QPSK

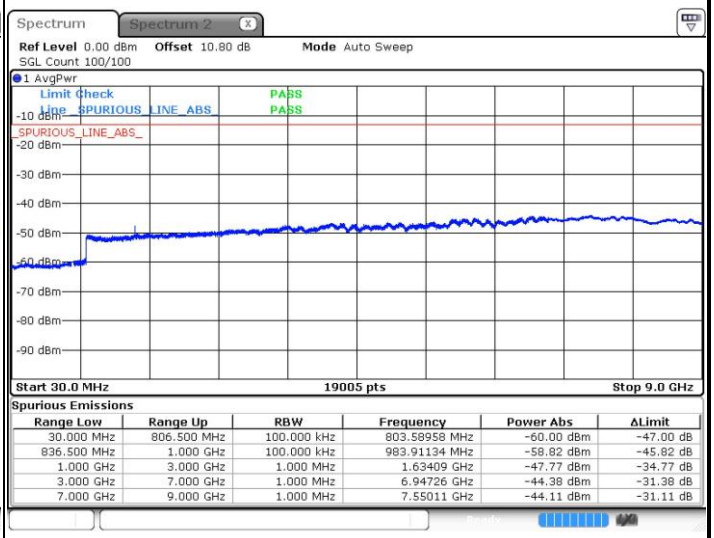


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	779.14205 MHz	-60.21 dBm	-47.21 dB
836.500 MHz	1.000 GHz	100.000 kHz	973.45779 MHz	-59.10 dBm	-46.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-47.66 dBm	-34.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91376 GHz	-44.10 dBm	-31.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55411 GHz	-44.29 dBm	-31.29 dB

Date: 31.OCT.2018 20:56:16

Middle Channel / 16QAM



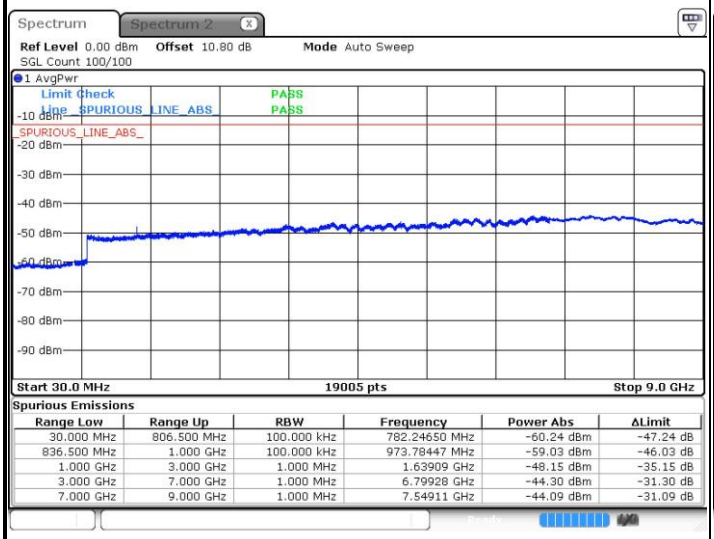
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	803.58958 MHz	-60.00 dBm	-47.00 dB
836.500 MHz	1.000 GHz	100.000 kHz	983.91134 MHz	-58.82 dBm	-45.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-47.77 dBm	-34.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94726 GHz	-44.38 dBm	-31.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55011 GHz	-44.11 dBm	-31.11 dB

Date: 31.OCT.2018 20:57:08

LTE Band 26 / 5MHz

Highest Channel / QPSK

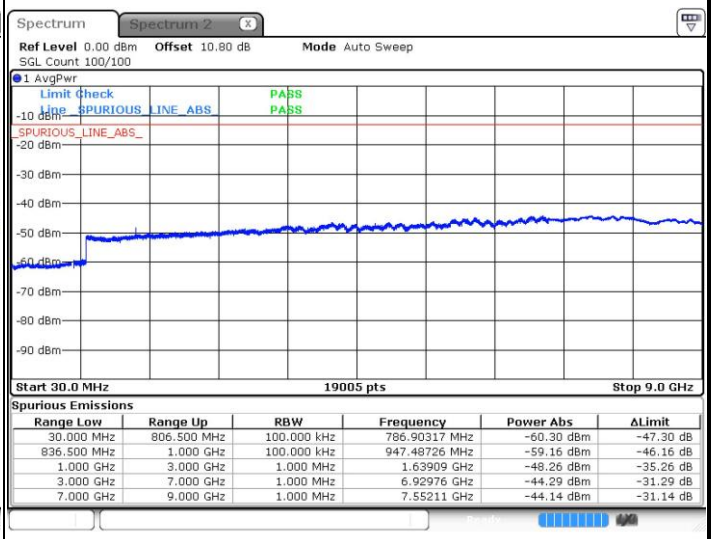


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	782.24650 MHz	-60.24 dBm	-47.24 dB
836.500 MHz	1.000 GHz	100.000 kHz	973.78447 MHz	-59.03 dBm	-46.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-48.15 dBm	-35.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79928 GHz	-44.30 dBm	-31.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54911 GHz	-44.09 dBm	-31.09 dB

Date: 31.OCT.2018 20:58:45

Highest Channel / 16QAM



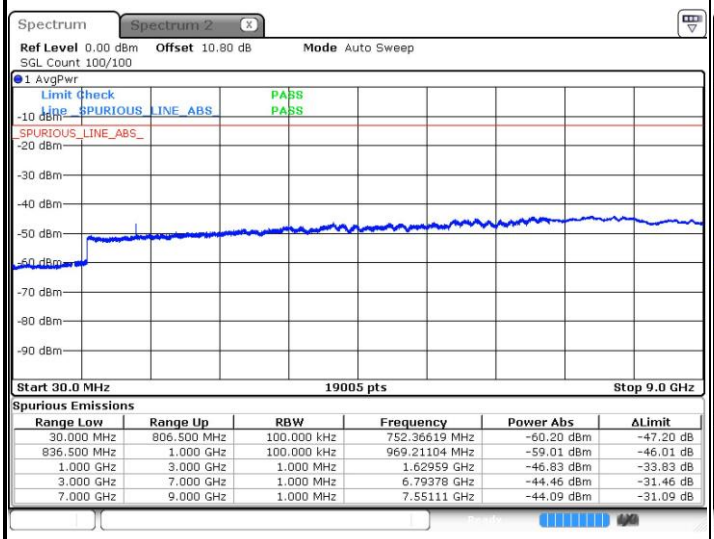
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	786.90317 MHz	-60.30 dBm	-47.30 dB
836.500 MHz	1.000 GHz	100.000 kHz	947.48726 MHz	-59.16 dBm	-46.16 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-48.26 dBm	-35.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92976 GHz	-44.29 dBm	-31.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55211 GHz	-44.14 dBm	-31.14 dB

Date: 31.OCT.2018 20:59:37

LTE Band 26 / 10MHz

Middle Channel / QPSK

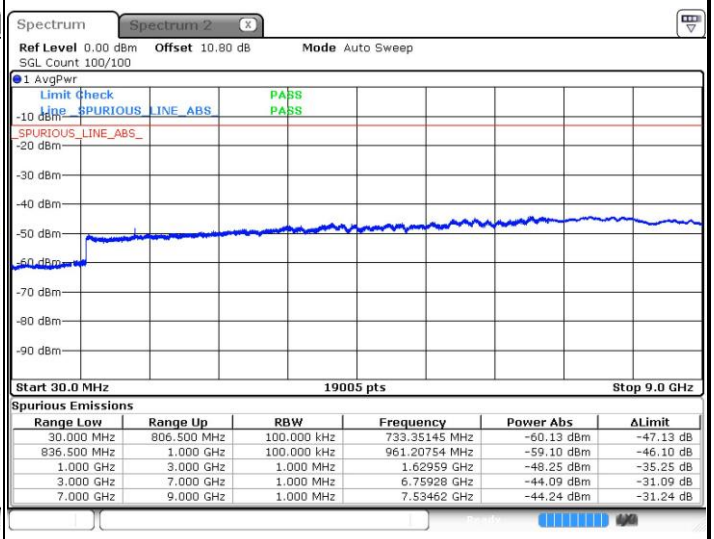


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	752.36619 MHz	-60.20 dBm	-47.20 dB
836.500 MHz	1.000 GHz	100.000 kHz	969.21104 MHz	-59.01 dBm	-46.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-46.83 dBm	-33.83 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79378 GHz	-44.46 dBm	-31.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55111 GHz	-44.09 dBm	-31.09 dB

Date: 31.OCT.2018 21:01:15

Middle Channel / 16QAM



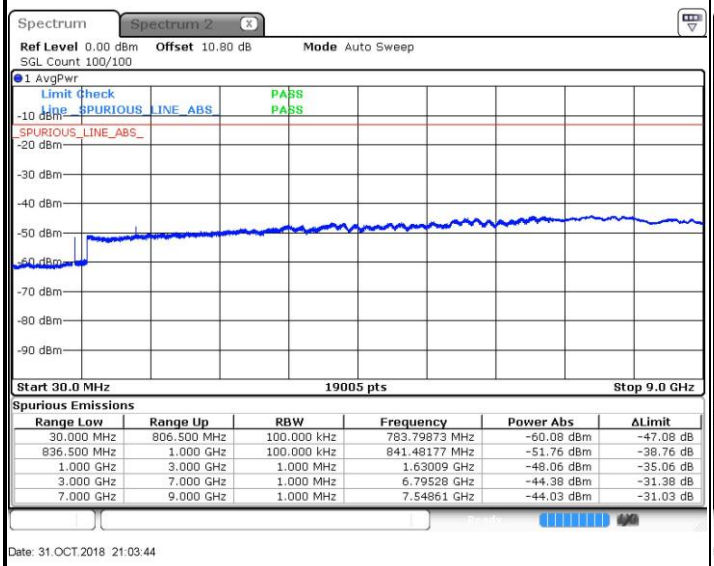
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	733.35145 MHz	-60.13 dBm	-47.13 dB
836.500 MHz	1.000 GHz	100.000 kHz	961.20754 MHz	-59.10 dBm	-46.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-48.25 dBm	-35.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.75928 GHz	-44.09 dBm	-31.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53462 GHz	-44.24 dBm	-31.24 dB

Date: 31.OCT.2018 21:02:06

LTE Band 26 / 15MHz

Lowest Channel / QPSK

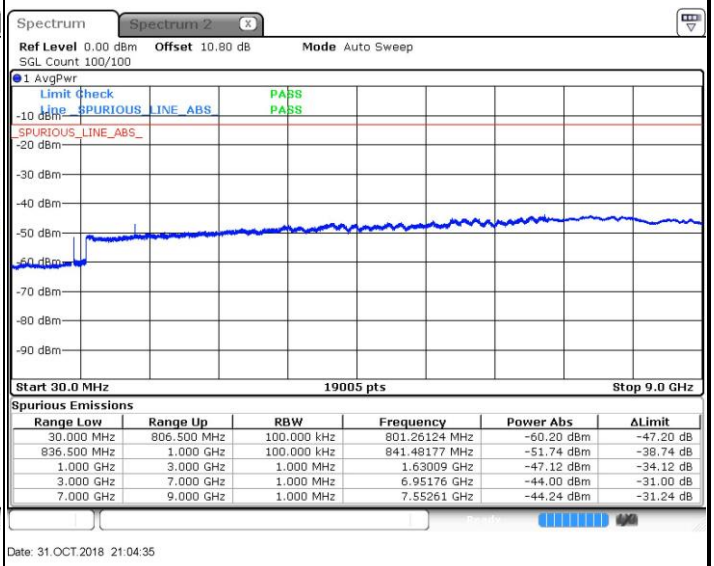


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	783.79873 MHz	-60.08 dBm	-47.08 dB
836.500 MHz	1.000 GHz	100.000 kHz	841.48177 MHz	-51.76 dBm	-38.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-48.06 dBm	-35.06 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79528 GHz	-44.38 dBm	-31.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54861 GHz	-44.03 dBm	-31.03 dB

Date: 31.OCT.2018 21:03:44

Lowest Channel / 16QAM



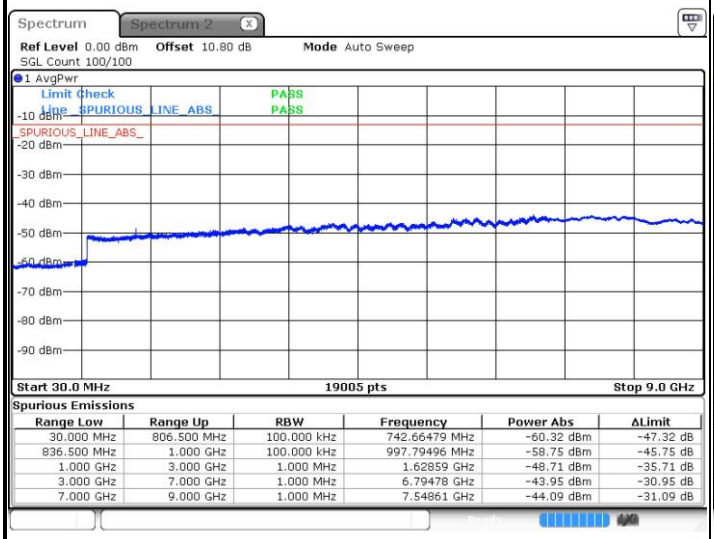
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	801.26124 MHz	-60.20 dBm	-47.20 dB
836.500 MHz	1.000 GHz	100.000 kHz	841.48177 MHz	-51.74 dBm	-38.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-47.12 dBm	-34.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95176 GHz	-44.00 dBm	-31.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55261 GHz	-44.24 dBm	-31.24 dB

Date: 31.OCT.2018 21:04:35

LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

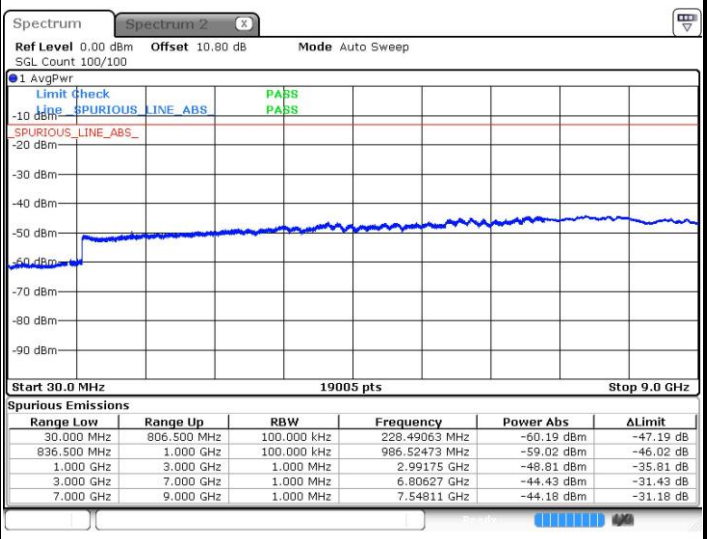


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	742.66479 MHz	-60.32 dBm	-47.32 dB
836.500 MHz	1.000 GHz	100.000 kHz	997.79496 MHz	-58.75 dBm	-45.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-48.71 dBm	-35.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79478 GHz	-43.95 dBm	-30.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54861 GHz	-44.09 dBm	-31.09 dB

Date: 31.OCT.2018 20:42:13

Middle Channel / 64QAM

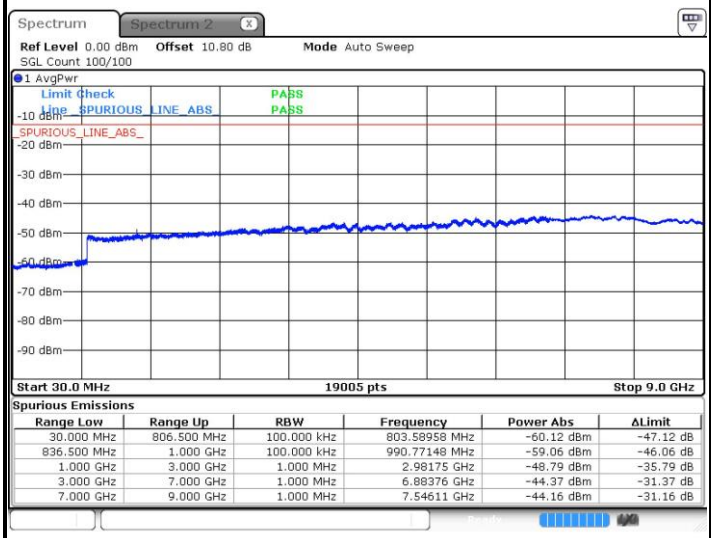


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	228.49063 MHz	-60.19 dBm	-47.19 dB
836.500 MHz	1.000 GHz	100.000 kHz	986.52473 MHz	-59.02 dBm	-46.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99175 GHz	-48.81 dBm	-35.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80627 GHz	-44.43 dBm	-31.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54811 GHz	-44.18 dBm	-31.18 dB

Date: 31.OCT.2018 20:43:27

Highest Channel / 64QAM



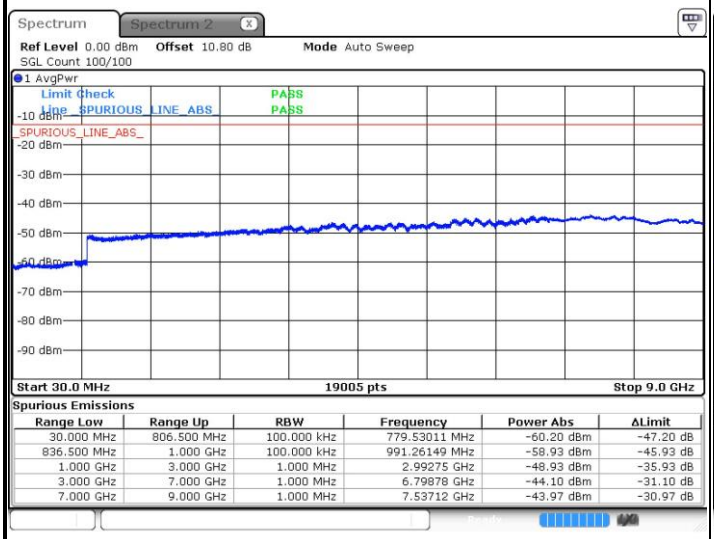
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	803.58958 MHz	-60.12 dBm	-47.12 dB
836.500 MHz	1.000 GHz	100.000 kHz	990.77148 MHz	-59.06 dBm	-46.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98175 GHz	-48.79 dBm	-35.79 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88376 GHz	-44.37 dBm	-31.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54611 GHz	-44.16 dBm	-31.16 dB

Date: 31.OCT.2018 20:44:42

LTE Band 26 / 3MHz

Lowest Channel / 64QAM

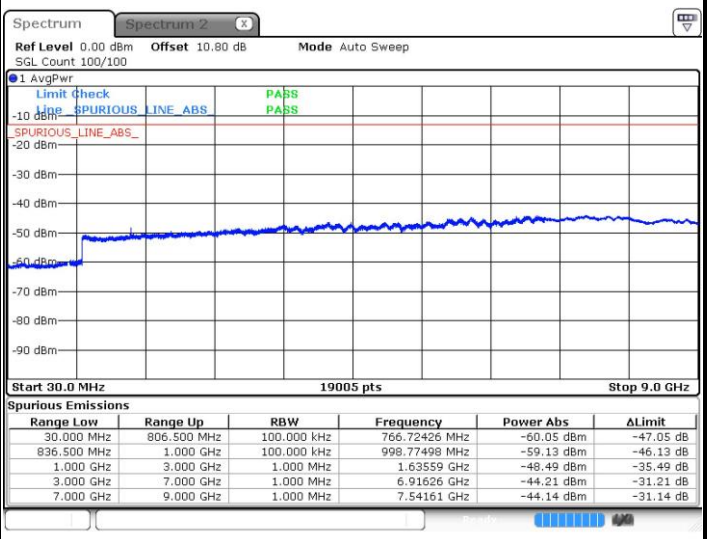


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	779.53011 MHz	-60.20 dBm	-47.20 dB
836.500 MHz	1.000 GHz	100.000 kHz	991.26149 MHz	-58.93 dBm	-45.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99275 GHz	-48.93 dBm	-35.93 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79878 GHz	-44.10 dBm	-31.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53712 GHz	-43.97 dBm	-30.97 dB

Date: 31.OCT.2018 20:29:01

Middle Channel / 64QAM

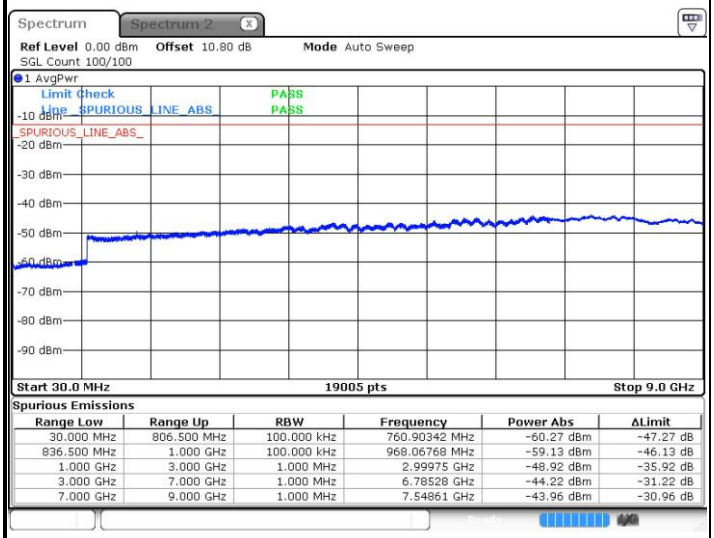


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	766.72426 MHz	-60.05 dBm	-47.05 dB
836.500 MHz	1.000 GHz	100.000 kHz	998.77498 MHz	-59.13 dBm	-46.13 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-48.49 dBm	-35.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91626 GHz	-44.21 dBm	-31.21 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54161 GHz	-44.14 dBm	-31.14 dB

Date: 31.OCT.2018 20:30:15

Highest Channel / 64QAM



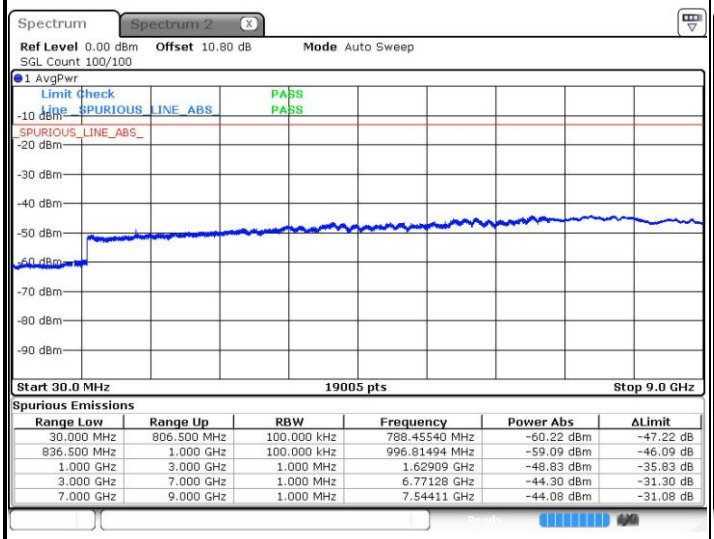
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	760.90342 MHz	-60.27 dBm	-47.27 dB
836.500 MHz	1.000 GHz	100.000 kHz	968.06768 MHz	-59.13 dBm	-46.13 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99975 GHz	-48.92 dBm	-35.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78528 GHz	-44.22 dBm	-31.22 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54861 GHz	-43.96 dBm	-30.96 dB

Date: 31.OCT.2018 20:31:30

LTE Band 26 / 5MHz

Lowest Channel / 64QAM

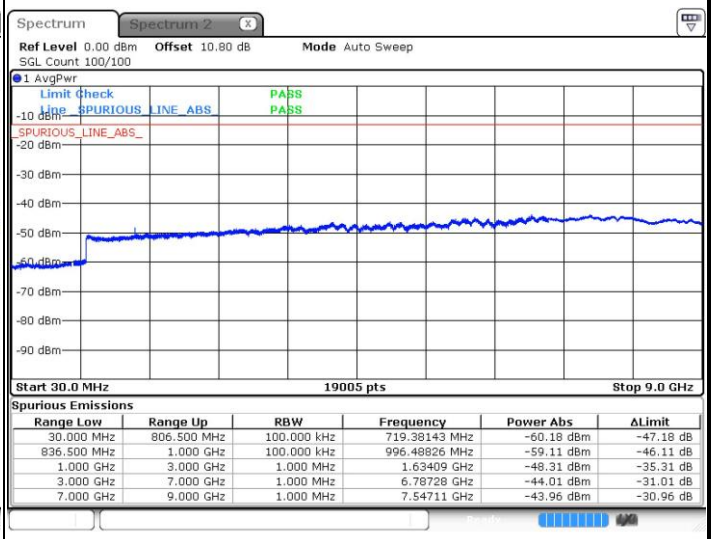


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	788.45540 MHz	-60.22 dBm	-47.22 dB
836.500 MHz	1.000 GHz	100.000 kHz	996.81494 MHz	-59.09 dBm	-46.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-48.83 dBm	-35.83 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77128 GHz	-44.30 dBm	-31.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54411 GHz	-44.08 dBm	-31.08 dB

Date: 31.OCT.2018 20:32:45

Middle Channel / 64QAM

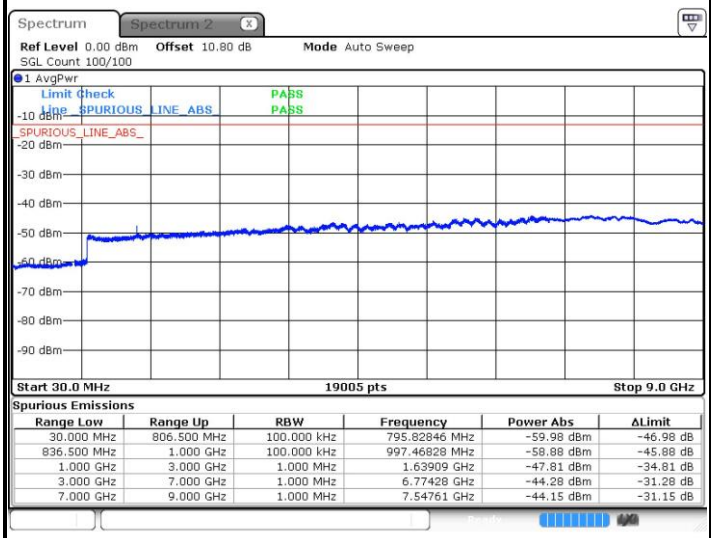


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	719.38143 MHz	-60.18 dBm	-47.18 dB
836.500 MHz	1.000 GHz	100.000 kHz	996.48826 MHz	-59.11 dBm	-46.11 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-48.31 dBm	-35.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78728 GHz	-44.01 dBm	-31.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-43.96 dBm	-30.96 dB

Date: 31.OCT.2018 20:33:59

Highest Channel / 64QAM

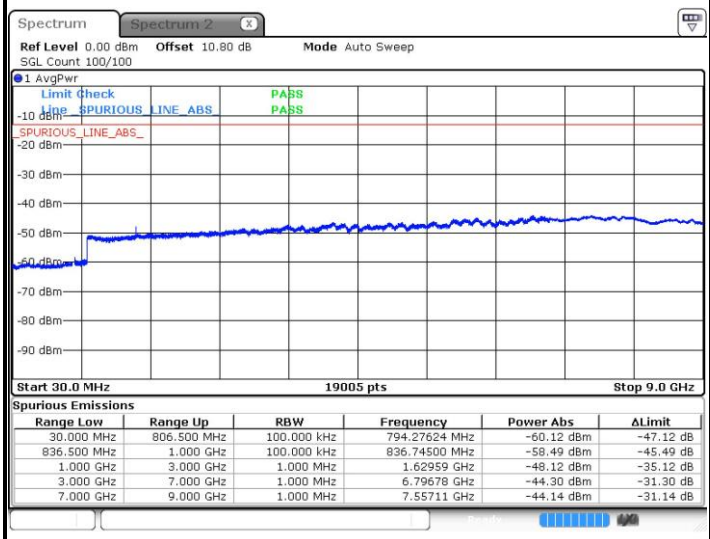


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	795.82846 MHz	-59.98 dBm	-46.98 dB
836.500 MHz	1.000 GHz	100.000 kHz	997.46828 MHz	-58.88 dBm	-45.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-47.81 dBm	-34.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77428 GHz	-44.28 dBm	-31.28 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54761 GHz	-44.15 dBm	-31.15 dB

Date: 31.OCT.2018 20:35:14

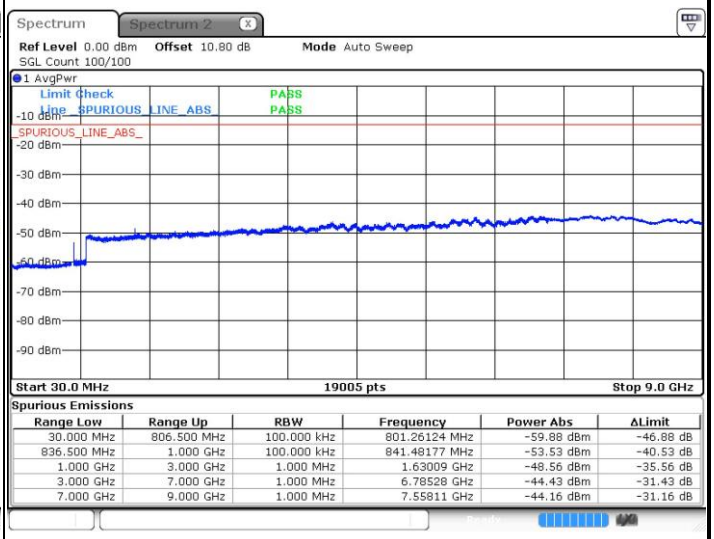
LTE Band 26 / 10MHz	LTE Band 26 / 15MHz
Middle Channel / 64QAM	**Lowest Channel / 64QAM**



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	794.27624 MHz	-60.12 dBm	-47.12 dB
836.500 MHz	1.000 GHz	100.000 kHz	836.74500 MHz	-58.49 dBm	-45.49 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-48.12 dBm	-35.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79678 GHz	-44.30 dBm	-31.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55711 GHz	-44.14 dBm	-31.14 dB

Date: 31.OCT.2018 20:36:28



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	801.26124 MHz	-59.88 dBm	-46.88 dB
836.500 MHz	1.000 GHz	100.000 kHz	841.48177 MHz	-53.53 dBm	-40.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-48.56 dBm	-35.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78528 GHz	-44.43 dBm	-31.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55811 GHz	-44.16 dBm	-31.16 dB

Date: 31.OCT.2018 20:37:43

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0063	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0040	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0066	
30	Normal Voltage	0.0068	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0066	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of ERP and Radiated Test

ERP

<Reporting Only>

LTE Band 26 / 15MHz (Channel 26765) (Average) (GT - LC = -5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	74	24.99	0.3155	17.84	0.0608
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	74	23.84	0.2421	16.69	0.0467
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	0	22.87	0.1936	15.72	0.0373
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 7W			Result		PASS	

Radiated Spurious Emission

LTE Band 26

LTE Band 26 / 3MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1632	-52.92	-13	-39.92	-62.65	-59.84	0.52	9.59	H
	2448	-39.00	-13	-26.00	-52.51	-46.96	0.64	10.76	H
	3264	-58.04	-13	-45.04	-74.06	-67.03	0.75	11.89	H
									H
									H
									H
									H
									V
	1632	-54.18	-13	-41.18	-63.73	-61.1	0.52	9.59	V
	2448	-41.88	-13	-28.88	-55.94	-49.84	0.64	10.76	V
	3264	-57.84	-13	-44.84	-73.98	-66.83	0.75	11.89	V
									V
									V
									V

Middle	1640	-46.64	-13	-33.64	-56.51	-53.57	0.52	9.61	H
	2456	-35.26	-13	-22.26	-48.76	-43.23	0.65	10.76	H
	3280	-58.13	-13	-45.13	-74.19	-67.17	0.75	11.94	H
	4096	-57.59	-13	-44.59	-74.98	-66.94	0.87	12.36	H
									H
									H
									H
	1640	-49.13	-13	-36.13	-58.71	-56.06	0.52	9.61	V
	2456	-37.85	-13	-24.85	-51.9	-45.82	0.65	10.76	V
	3280	-58.26	-13	-45.26	-74.37	-67.3	0.75	11.94	V
	4096	-55.60	-13	-42.60	-74.13	-64.95	0.87	12.36	V
									V
									V
									V
Highest	1648	-51.55	-13	-38.55	-60.97	-58.5	0.53	9.63	H
	2472	-37.32	-13	-24.32	-50.95	-45.3	0.65	10.78	H
	3296	-58.82	-13	-45.82	-74.39	-67.9	0.76	11.99	H
									H
									H
									H
									H
	1648	-52.65	-13	-39.65	-61.76	-59.6	0.53	9.63	V
	2472	-40.92	-13	-27.92	-54.3	-48.9	0.65	10.78	V
	3296	-59.02	-13	-46.02	-74.59	-68.1	0.76	11.99	V
									V
									V
									V
									V

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

LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1648	-53.03	-13	-40.03	-62.91	-59.98	0.53	9.63	H
	2472	-37.94	-13	-24.94	-51.4	-45.92	0.65	10.78	H
	3296	-58.21	-13	-45.21	-74.32	-67.29	0.76	11.99	H
	4120	-57.81	-13	-44.81	-75.23	-67.15	0.86	12.35	H
									H
									H
									H
	1648	-59.78	-13	-46.78	-60.78	-66.73	0.53	9.63	V
	2472	-39.20	-13	-26.20	-53.15	-47.18	0.65	10.78	V
	3296	-58.51	-13	-45.51	-74.59	-67.59	0.76	11.99	V
	4120	-53.90	-13	-40.90	-72.5	-63.24	0.86	12.35	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1656	-50.13	-13	-37.13	-59.89	-57.1	0.53	9.64	H
	2488	-30.91	-13	-17.91	-44.15	-38.9	0.65	10.79	H
	3316	-58.96	-13	-45.96	-74.65	-68.1	0.76	12.05	H
	4144	-55.86	-13	-42.86	-72.93	-65.2	0.85	12.34	H
									H
									H
									H
	1656	-52.83	-13	-39.83	-62.12	-59.8	0.53	9.64	V
	2488	-39.91	-13	-26.91	-53.48	-47.9	0.65	10.79	V
	3316	-58.76	-13	-45.76	-74.55	-67.9	0.76	12.05	V
	4144	-56.86	-13	-43.86	-75.19	-66.2	0.85	12.34	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20

———THE END———