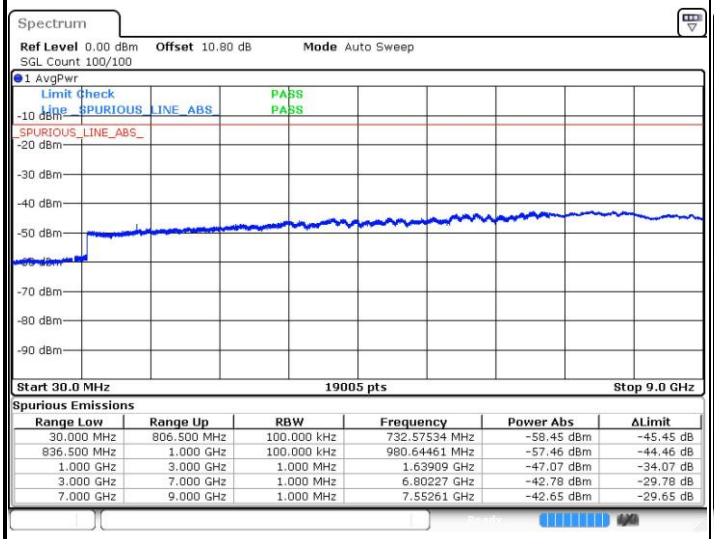
LTE Band 26 / 5MHz

Highest Channel / QPSK

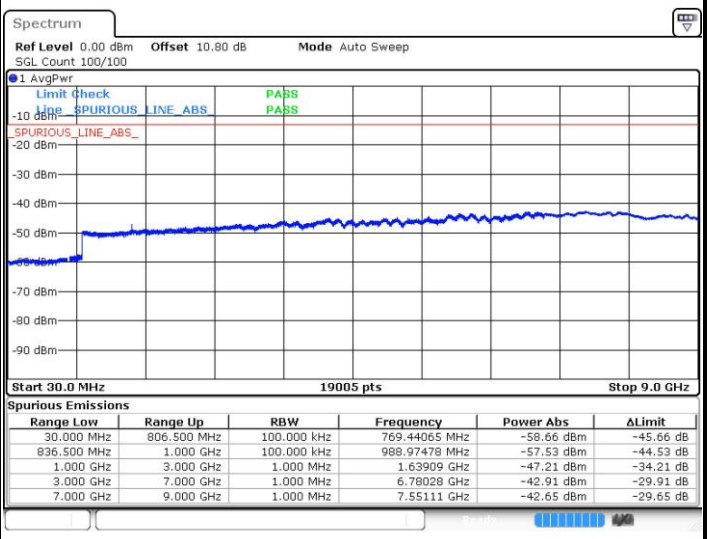


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	732.57534 MHz	-58.45 dBm	-45.45 dB
836.500 MHz	1.000 GHz	100.000 kHz	980.64461 MHz	-57.46 dBm	-44.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-47.07 dBm	-34.07 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80227 GHz	-42.78 dBm	-29.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55261 GHz	-42.65 dBm	-29.65 dB

Date: 25.JUN.2019 21:47:52

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	769.44065 MHz	-58.66 dBm	-45.66 dB
836.500 MHz	1.000 GHz	100.000 kHz	988.97478 MHz	-57.53 dBm	-44.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-47.21 dBm	-34.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78028 GHz	-42.91 dBm	-29.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55111 GHz	-42.65 dBm	-29.65 dB

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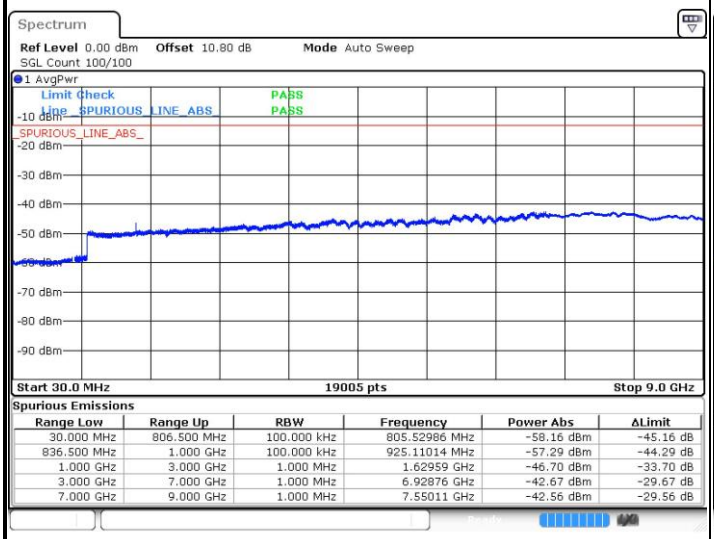
LTE Band 26 / 10MHz

Middle Channel / QPSK

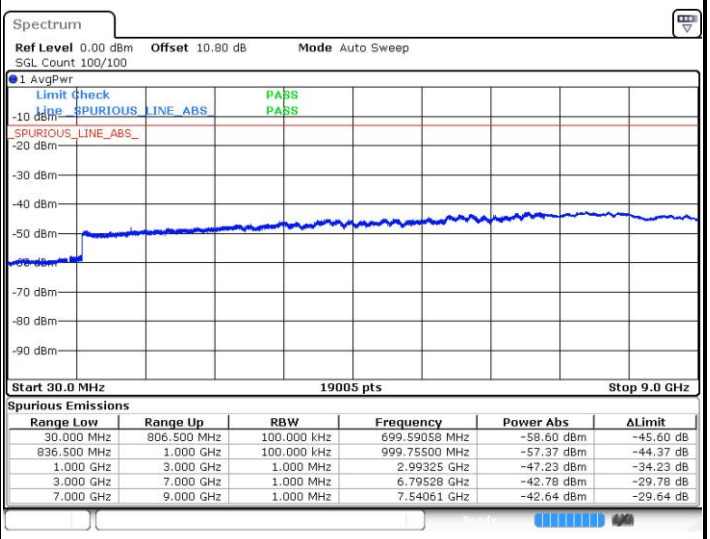


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	805.52986 MHz	-58.16 dBm	-45.16 dB
836.500 MHz	1.000 GHz	100.000 kHz	925.11014 MHz	-57.29 dBm	-44.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-46.70 dBm	-33.70 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92876 GHz	-42.67 dBm	-29.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55011 GHz	-42.56 dBm	-29.56 dB

Date: 25.JUN.2019 21:50:18

Middle Channel / 16QAM

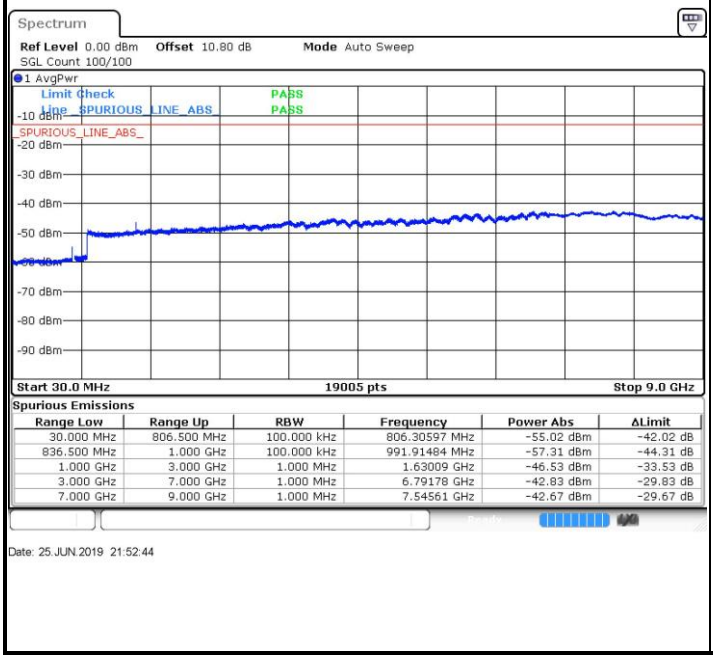


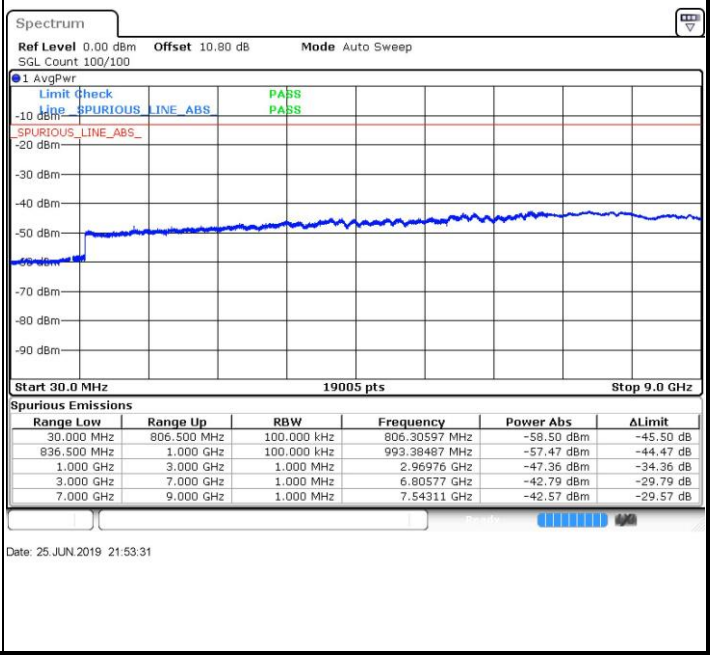
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	699.59058 MHz	-58.60 dBm	-45.60 dB
836.500 MHz	1.000 GHz	100.000 kHz	999.75500 MHz	-57.37 dBm	-44.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99325 GHz	-47.23 dBm	-34.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79528 GHz	-42.78 dBm	-29.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54061 GHz	-42.64 dBm	-29.64 dB

Date: 25.JUN.2019 21:51:05

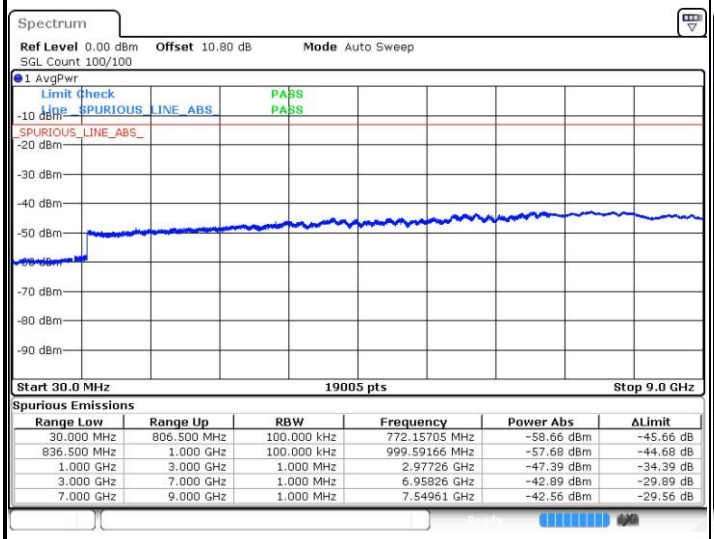
LTE Band 26 / 15MHz	
Lowest Channel / QPSK	**Lowest Channel / 16QAM**





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	772.15705 MHz	-58.66 dBm	-45.66 dB
836.500 MHz	1.000 GHz	100.000 kHz	999.59166 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97726 GHz	-47.39 dBm	-34.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95826 GHz	-42.89 dBm	-29.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54951 GHz	-42.56 dBm	-29.56 dB

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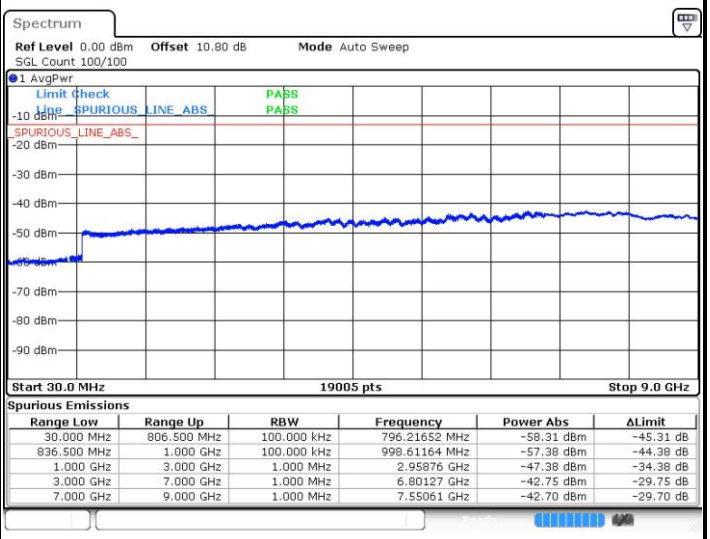
Middle Channel / 64QAM

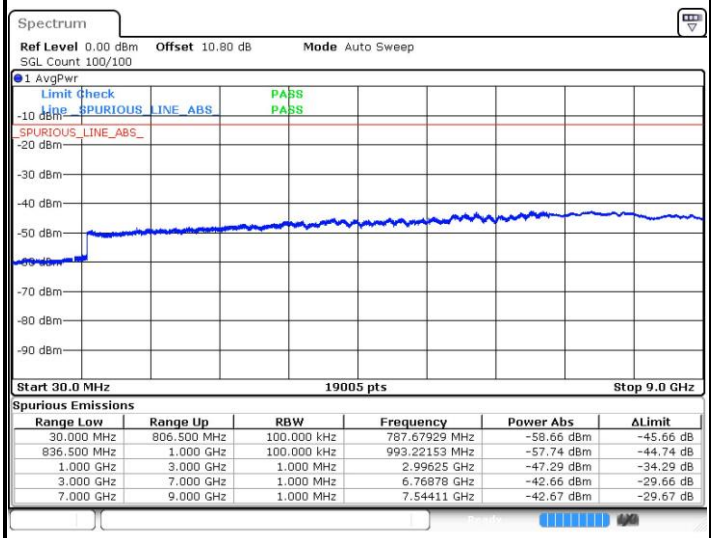


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	796.21652 MHz	-58.31 dBm	-45.31 dB
836.500 MHz	1.000 GHz	100.000 kHz	998.61164 MHz	-57.38 dBm	-44.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95876 GHz	-47.38 dBm	-34.38 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80127 GHz	-42.75 dBm	-29.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-42.70 dBm	-29.70 dB

Date: 25.JUN.2019 21:32:56

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	787.67929 MHz	-58.66 dBm	-45.66 dB
836.500 MHz	1.000 GHz	100.000 kHz	993.22153 MHz	-57.74 dBm	-44.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99625 GHz	-47.29 dBm	-34.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.76878 GHz	-42.66 dBm	-29.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54411 GHz	-42.67 dBm	-29.67 dB

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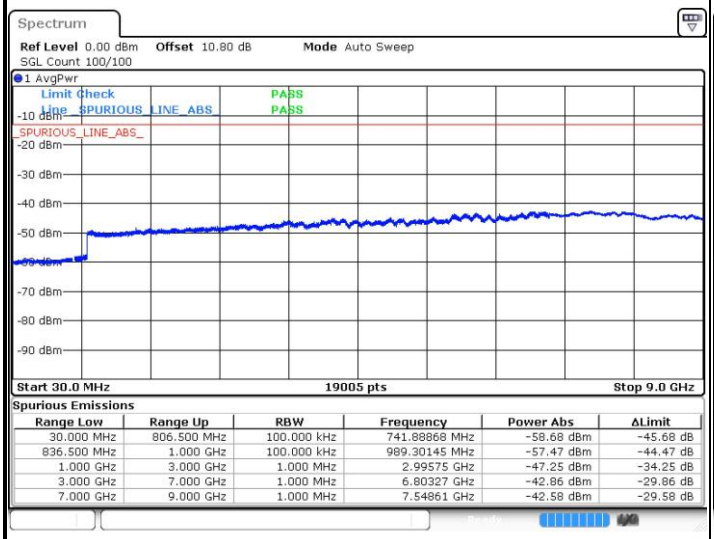
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	741.88868 MHz	-58.68 dBm	-45.68 dB
836.500 MHz	1.000 GHz	100.000 kHz	989.30145 MHz	-57.47 dBm	-44.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99575 GHz	-47.25 dBm	-34.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80327 GHz	-42.86 dBm	-29.86 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54861 GHz	-42.58 dBm	-29.58 dB

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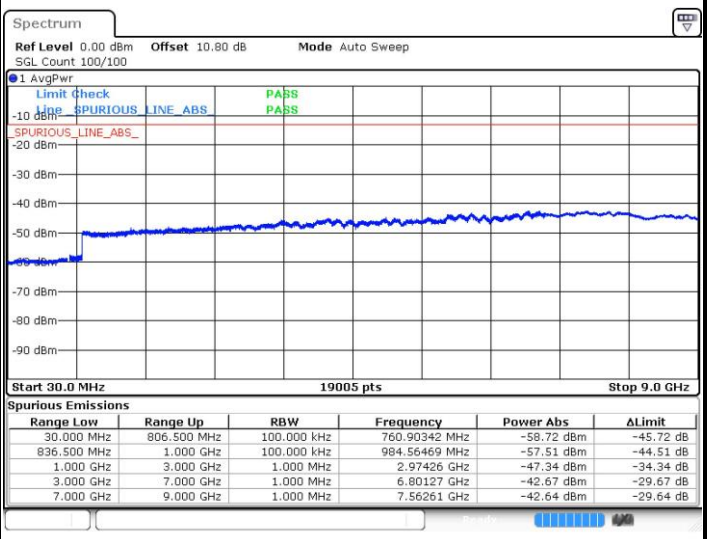
Middle Channel / 64QAM

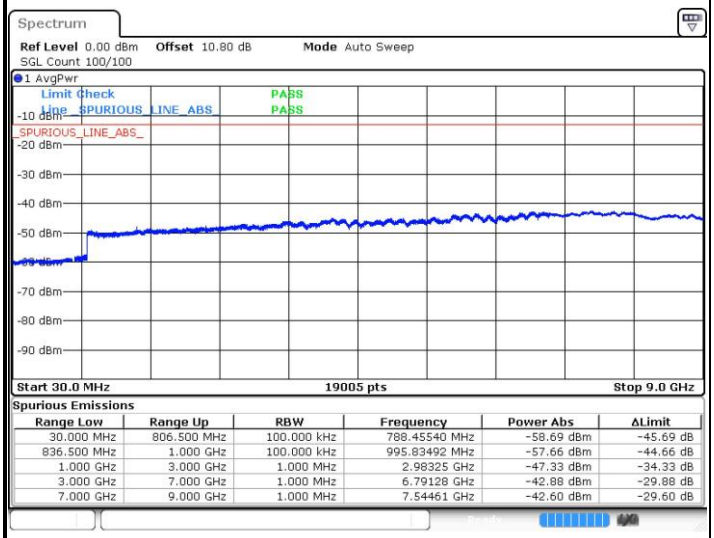


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	760.90342 MHz	-58.72 dBm	-45.72 dB
836.500 MHz	1.000 GHz	100.000 kHz	984.56469 MHz	-57.51 dBm	-44.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97426 GHz	-47.34 dBm	-34.34 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80127 GHz	-42.67 dBm	-29.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56261 GHz	-42.64 dBm	-29.64 dB

Date: 25.JUN.2019 21:21:37

Highest 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	-58.69 dBm	-45.69 dB
836.500 MHz	1.000 GHz	100.000 kHz	995.83492 MHz	-57.66 dBm	-44.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98325 GHz	-47.33 dBm	-34.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79128 GHz	-42.88 dBm	-29.88 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54461 GHz	-42.60 dBm	-29.60 dB

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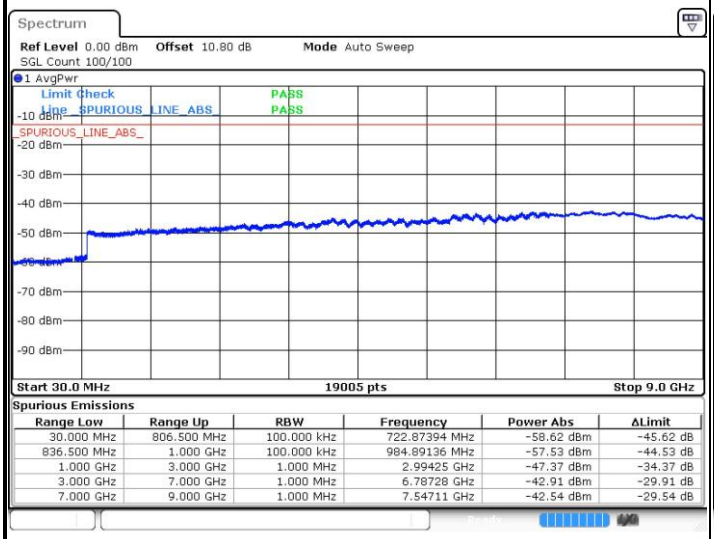
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	722.87394 MHz	-58.62 dBm	-45.62 dB
836.500 MHz	1.000 GHz	100.000 kHz	984.89136 MHz	-57.53 dBm	-44.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99425 GHz	-47.37 dBm	-34.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78728 GHz	-42.91 dBm	-29.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-42.54 dBm	-29.54 dB

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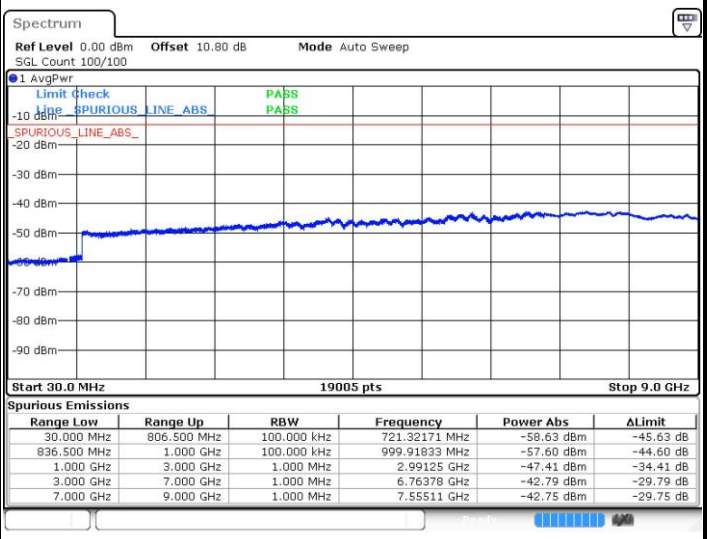
Middle Channel / 64QAM

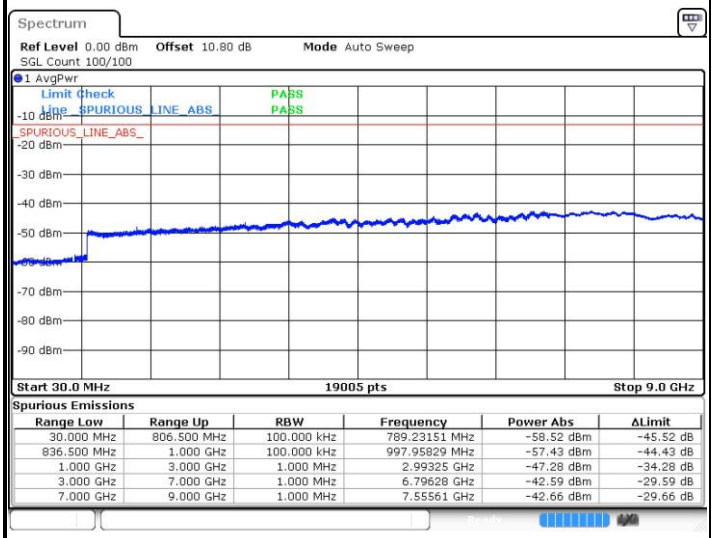


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	721.32171 MHz	-58.63 dBm	-45.63 dB
836.500 MHz	1.000 GHz	100.000 kHz	999.91833 MHz	-57.60 dBm	-44.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99125 GHz	-47.41 dBm	-34.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.76378 GHz	-42.79 dBm	-29.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55511 GHz	-42.75 dBm	-29.75 dB

Date: 25.JUN.2019 21:25:15

Highest Channel / 64QAM

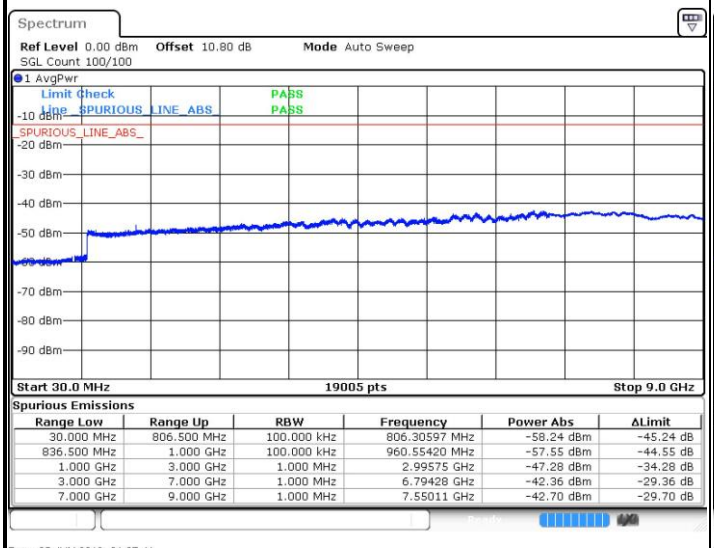


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	789.23151 MHz	-58.52 dBm	-45.52 dB
836.500 MHz	1.000 GHz	100.000 kHz	997.95829 MHz	-57.43 dBm	-44.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99325 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79628 GHz	-42.59 dBm	-29.59 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55561 GHz	-42.66 dBm	-29.66 dB

Date: 25.JUN.2019 21:26:27

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	806.30597 MHz	-58.24 dBm	-45.24 dB
836.500 MHz	1.000 GHz	100.000 kHz	960.55420 MHz	-57.55 dBm	-44.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99575 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79428 GHz	-42.36 dBm	-29.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55011 GHz	-42.70 dBm	-29.70 dB

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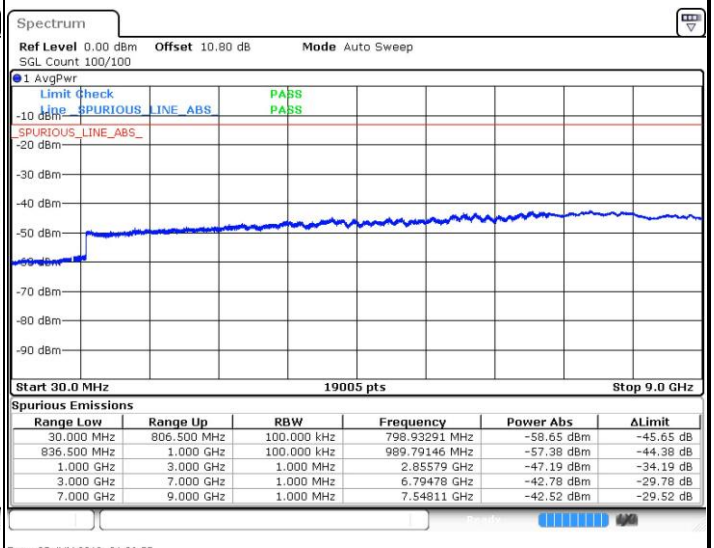

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	798.93291 MHz	-58.65 dBm	-45.65 dB
836.500 MHz	1.000 GHz	100.000 kHz	989.79146 MHz	-57.38 dBm	-44.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.85579 GHz	-47.19 dBm	-34.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79478 GHz	-42.78 dBm	-29.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54811 GHz	-42.52 dBm	-29.52 dB

Date: 25.JUN.2019 21:28:55

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	0.0121	PASS
40	Normal Voltage	0.0099	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0154	
0	Normal Voltage	0.0139	
-10	Normal Voltage	0.0214	
-20	Normal Voltage	0.0212	
-30	Normal Voltage	0.0166	
20	Maximum Voltage	0.0193	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.65 V.；Maximum Voltage =4.25 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	0.0085	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0082	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0079	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0085	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.65 V.；Maximum Voltage =4.25 V.

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

Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 26 / 1.4MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.20	0.2089	17.55	0.0569
Middle		1	3	23.32	0.2148	17.67	0.0585
Highest		1	3	23.07	0.2028	17.42	0.0552
Lowest	16QAM	1	3	22.22	0.1667	16.57	0.0454
Middle		1	3	21.82	0.1521	16.17	0.0414
Highest		1	3	21.93	0.1560	16.28	0.0425
Lowest	16QAM	1	3	21.05	0.1274	15.40	0.0347
Middle		1	3	21.18	0.1312	15.53	0.0357
Highest		1	3	20.76	0.1191	15.11	0.0324
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 3MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.29	0.2133	17.64	0.0581
Middle		1	8	23.33	0.2153	17.68	0.0586
Highest		1	8	23.13	0.2056	17.48	0.0560
Lowest	16QAM	1	0	21.85	0.1531	16.20	0.0417
Middle		1	0	21.93	0.1560	16.28	0.0425
Highest		1	0	22.13	0.1633	16.48	0.0445
Lowest	16QAM	1	0	20.83	0.1211	15.18	0.0330
Middle		1	0	21.21	0.1321	15.56	0.0360
Highest		1	0	20.41	0.1099	14.76	0.0299
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 5MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.21	0.2094	17.56	0.0570
Middle		1	24	23.29	0.2133	17.64	0.0581
Highest		1	24	23.10	0.2042	17.45	0.0556
Lowest	16QAM	1	24	21.63	0.1455	15.98	0.0396
Middle		1	24	21.85	0.1531	16.20	0.0417
Highest		1	24	22.09	0.1618	16.44	0.0441
Lowest	16QAM	1	12	21.01	0.1262	15.36	0.0344
Middle		1	12	21.30	0.1349	15.65	0.0367
Highest		1	12	20.96	0.1247	15.31	0.0340
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 10MHz (Channel 26740) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	25	23.30	0.2138	17.65	0.0582
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	22.15	0.1641	16.50	0.0447
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	21.11	0.1291	15.46	0.0352
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.50	0.2239	17.85	0.0610
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	37	22.55	0.1799	16.90	0.0490
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	0	21.30	0.1349	15.65	0.0367
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

Radiated Spurious Emission

LTE Band 26

LTE Band 26 / 1.4MHz / 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	-64.41	-13	-51.41	-75.09	-69.74	1.22	8.70	H
	2444	-60.87	-13	-47.87	-75.46	-67.74	1.43	10.46	H
	3259	-59.90	-13	-46.90	-76.19	-67.75	1.67	11.68	H
									H
									H
									H
	1632	-64.71	-13	-51.71	-75.25	-70.04	1632	-64.71	V
	2444	-60.68	-13	-47.68	-75.66	-67.55	2444	-60.68	V
	3259	-59.49	-13	-46.49	-76.07	-67.34	3259	-59.49	V
									V
									V
									V
Middle	1640	-64.61	-13	-51.61	-75.31	-69.97	1.22	8.73	H
	2457	-61.18	-13	-48.18	-75.73	-68.06	1.43	10.47	H
	3280	-59.90	-13	-46.90	-76.05	-67.80	1.69	11.74	H
									H
									H
									H
	1640	-64.56	-13	-51.56	-75.13	-69.92	1.22	8.73	V
	2457	-60.40	-13	-47.40	-75.3	-67.28	1.43	10.47	V
	3280	-59.47	-13	-46.47	-75.97	-67.37	1.69	11.74	V
									V
									V
									V

Highest	1648	-64.63	-13	-51.63	-75.35	-70.02	1.23	8.76	H
	2470	-61.47	-13	-48.47	-76.01	-68.36	1.44	10.48	H
	3293	-60.45	-13	-47.45	-76.52	-68.38	1.70	11.78	H
									H
									H
									H
									H
	1648	-64.58	-13	-51.58	-75.18	-69.97	1.23	8.76	V
	2470	-61.04	-13	-48.04	-75.87	-67.93	1.44	10.48	V
	3293	-59.76	-13	-46.76	-76.22	-67.69	1.70	11.78	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	1640	-64.81	-13	-51.81	-75.51	-70.17	1.22	8.73	H
	2457	-61.15	-13	-48.15	-75.7	-68.03	1.43	10.47	H
	3276	-60.34	-13	-47.34	-76.52	-68.23	1.69	11.73	H
									H
									H
									H
									H
	1640	-64.61	-13	-51.61	-75.18	-69.97	1.22	8.73	V
	2457	-60.92	-13	-47.92	-75.82	-67.80	1.43	10.47	V
	3276	-59.71	-13	-46.71	-76.23	-67.60	1.69	11.73	V
									V
									V
									V
									V
									V

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

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)
	1632	-64.52	-13	-51.52	-75.2	-69.85	1.22	8.70	H
	2440	-60.74	-13	-47.74	-75.34	-67.61	1.43	10.45	H
	3256	-59.89	-13	-46.89	-76.2	-67.74	1.67	11.67	H
									H
									H
									H
									H
Lowest	1632	-63.64	-13	-50.64	-74.18	-68.97	1.22	8.70	V
	2440	-60.67	-13	-47.67	-75.68	-67.54	1.43	10.45	V
	3256	-59.69	-13	-46.69	-76.28	-67.54	1.67	11.67	V
									V
									V
									V
									V
									V

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