

The screenshot displays the Keysight Spectrum Analyzer interface. At the top, the title bar reads "Sig. KeySight Spectrum Analyzer - Target SA". The main display area shows a spectrum plot with a yellow trace. The plot has a grid with a vertical scale from -63.0 to 10 dB/div and a horizontal scale from 2.49600 GHz to 2.49630 GHz. A prominent peak is visible at 2.49600 GHz, labeled "Mkr1 2.496 00 GHz -31.661 dBm". The plot is titled "Trace 1 Pass".

Below the plot, the status bar shows the following information:

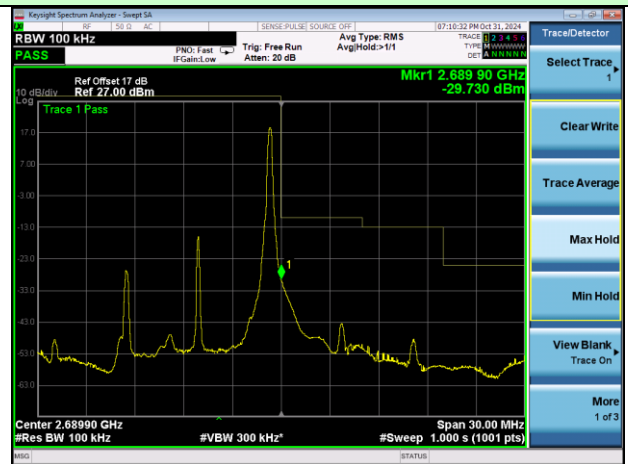
- Center 2.49600 GHz
- #Res BW 100 kHz
- #VBW 300 kHz*
- #Sweep 1,000 s (1001 pts)
- Span 30.00 MHz

On the right side of the interface, there are several control panels:

- BW**: Set to 100 kHz, Manual.
- Video BW**: Set to 300 kHz, Manual.
- VBW:3dB BW**: Set to 0.1, Manual.
- Span:3dB BW**: Set to 106, Manual.
- RBW Control**: Set to [Gaussian, 3 dB].

At the top right, the date and time are displayed as "07:52:13 PM Oct 31, 2024".

Highest channel



Keysight Spectrum Analyzer - Suite 5A

RF 50.0 AC SENSE-PULSE SOURCE OFF 07:33:03 PM Oct 31, 2024

RBW 100 kHz **PASS** FWD: Fast IF Gain: Low Trig: Free Run Avg Type: RMS Avg Hold: 1-11

Trace 1 2.496 00 GHz -33.175 dBm

Ref Offset 17.0 dB Ref 27.00 dBm

10 dB/div Log

Trace 1 Pass

Mkr1 2.496 00 GHz -33.175 dBm

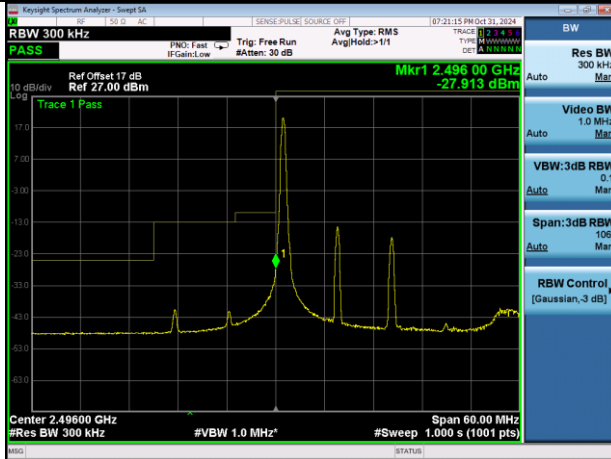
Center 2.49600 GHz #Res BW 100 kHz #VBW 300 kHz* #Span 30.00 MHz #Sweep 1,000 s (1001 pts)

RBW Control [Gaussian, 3 dB]

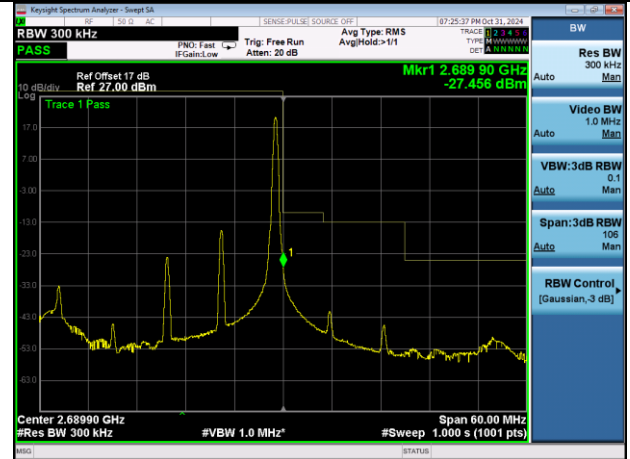
Highest channel



Test Mode: LTE Band 41 / 15MHz / 1 RB / QPSK



Lowest channel



Highest channel

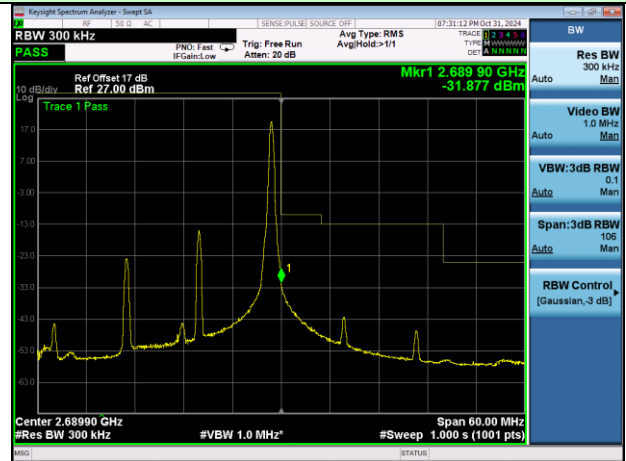
Test Mode: LTE Band 41 / 15MHz / 75RB / QPSK



Lowest channel



Highest channel

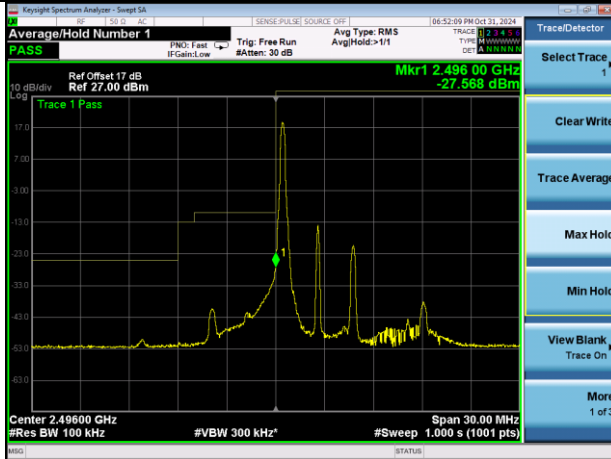


Highest channel



Highest channel

Test Mode: LTE Band 41 / 5MHz / 1RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 41 / 5MHz / 25RB / 16-QAM

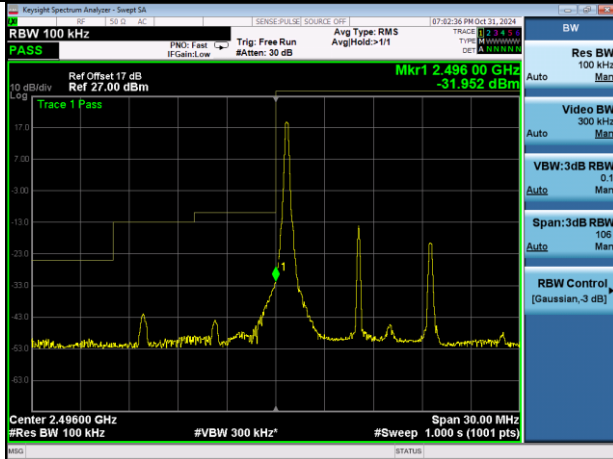


Lowest channel

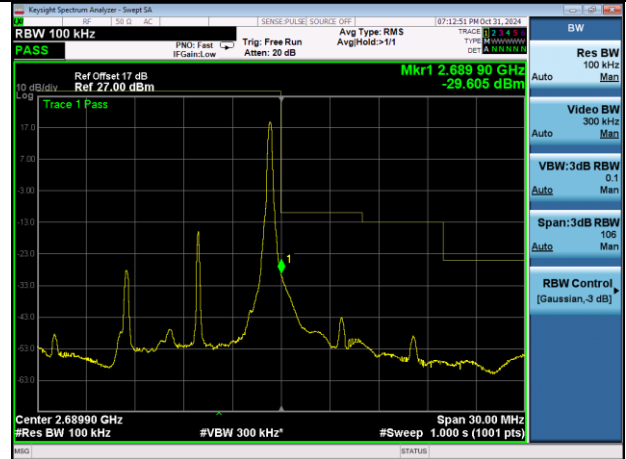


Highest channel

Test Mode: LTE Band 41 / 10MHz / 1 RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 41 / 10MHz / 50RB / 16-QAM

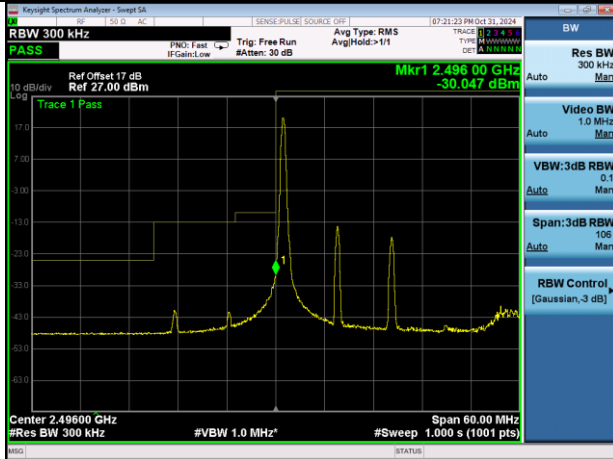


Lowest channel

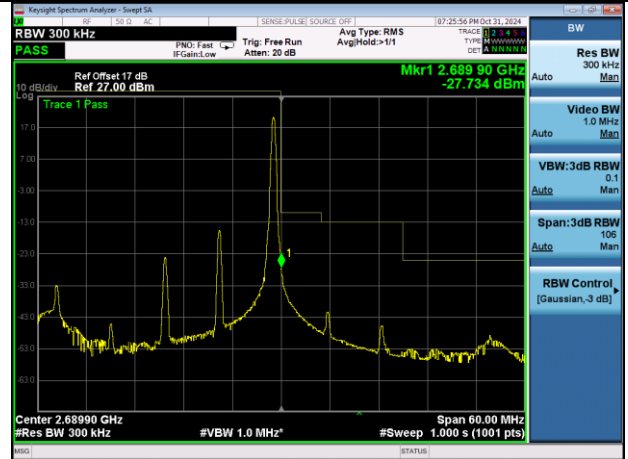


Highest channel

Test Mode: LTE Band 41 / 15MHz / 1 RB / 16-QAM

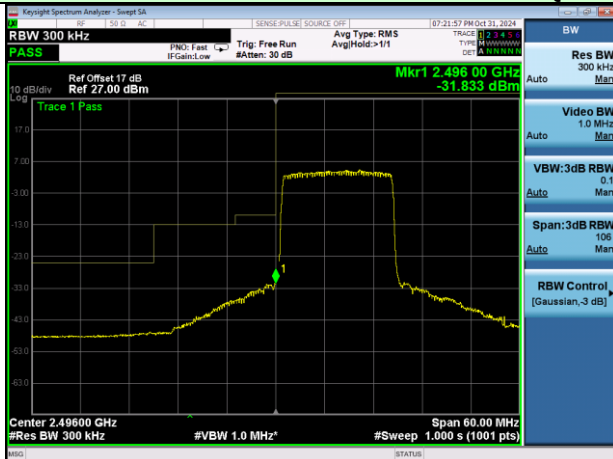


Lowest channel



Highest channel

Test Mode: LTE Band 41 / 15MHz / 75RB / 16-QAM

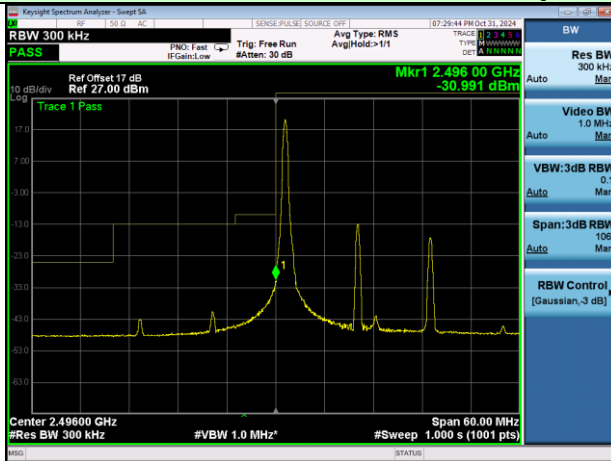


Lowest channel

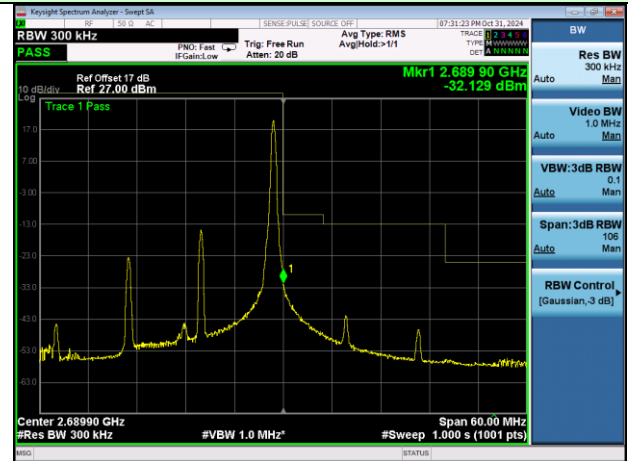


Highest channel

Test Mode: LTE Band 41 / 20MHz / 1RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 41 / 20MHz / 100RB / 16-QAM



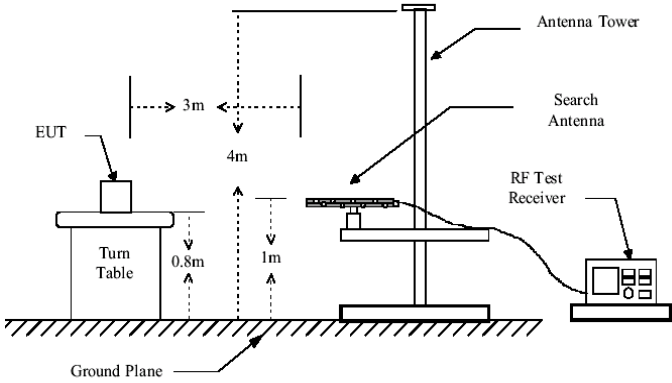
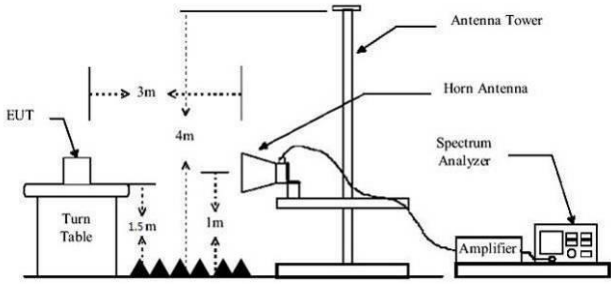
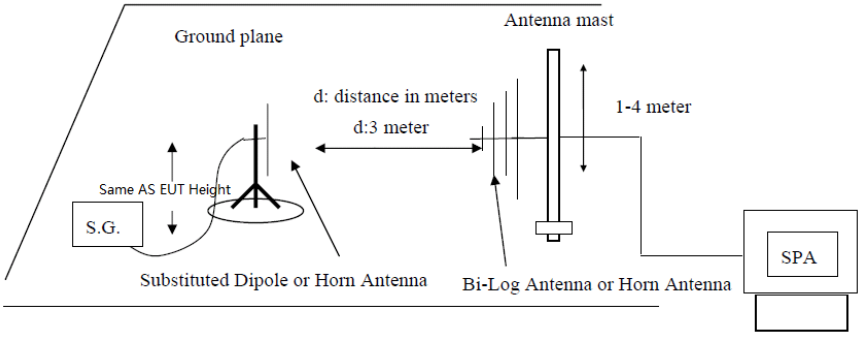
Lowest channel



Highest channel

Note: All bandwidth and modulation are tested, only the worst result is reported.

4.8 ERP, EIRP Measurement

Test Requirement:	FCC part22.913(a), FCC part24.232(b), FCC part 27.50(h) and FCC part 27.53
Test Method:	ANSI C63.26:2015
Limit:	LTE Band 2: 2W (EIRP) LTE Band 4: 1W (EIRP) LTE Band 5(Upper Band): [7W (ERP) for FCC] LTE Band 7: 2W (EIRP) LTE Band 12: 2W (ERP) LTE Band 13: 2W (ERP) LTE Band 41: 2W (EIRP)
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	H, E1, E2 mean for EUT polarization of X, Y, Z

Measurement Data

EUT mode	RB Size	RB Offset	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
LTE Band 2 (1.4MHz) QPSK	6	0	Lowest	H	V	23.55	33.00	Pass
					H	23.27		
				E1	V	23.67		
					H	23.65		
				E2	V	23.23		
					H	23.30		
	6	0	Middle	H	V	23.58	33.00	Pass
					H	23.56		
				E1	V	23.28		
					H	23.41		
				E2	V	23.42		
					H	23.23		
	6	0	Highest	H	V	23.64	33.00	Pass
					H	23.55		
				E1	V	23.57		
					H	23.31		
				E2	V	23.31		
					H	23.34		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (3MHz) QPSK	Lowest	15	0	H	V	22.97	33.00	Pass
					H	23.24		
				E1	V	23.15		
					H	23.27		
				E2	V	22.82		
					H	23.25		
	Middle	15	0	H	V	23.17	33.00	Pass
					H	22.97		
				E1	V	23.09		
					H	22.99		
				E2	V	23.28		
					H	23.25		
	Highest	15	0	H	V	22.95	33.00	Pass
					H	23.01		
				E1	V	23.25		
					H	23.14		
				E2	V	23.16		
					H	23.11		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (5MHz) QPSK	Lowest	25	0	H	V	22.72	33.00	Pass
					H	22.74		
				E1	V	22.45		
					H	22.57		
				E2	V	22.59		
					H	22.47		
	Middle	25	0	H	V	22.75	33.00	Pass
					H	22.84		
				E1	V	22.71		
					H	22.89		
				E2	V	22.68		
					H	22.88		
	Highest	25	0	H	V	22.80	33.00	Pass
					H	22.54		
				E1	V	22.46		
					H	22.54		
				E2	V	22.48		
					H	22.60		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (10MHz) QPSK	Lowest	50	0	H	V	22.40	33.00	Pass
					H	22.33		
				E1	V	22.09		
					H	22.41		
				E2	V	22.00		
					H	22.23		
	Middle	50	0	H	V	22.02	33.00	Pass
					H	22.03		
				E1	V	22.00		
					H	22.13		
				E2	V	22.03		
					H	22.42		
	Highest	50	0	H	V	22.50	33.00	Pass
					H	22.44		
				E1	V	22.21		
					H	22.09		
				E2	V	22.46		
					H	22.29		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (15MHz) QPSK	Lowest	75	0	H	V	21.84	33.00	Pass
					H	21.87		
				E1	V	22.00		
					H	21.67		
				E2	V	21.91		
					H	22.04		
	Middle	75	0	H	V	21.74	33.00	Pass
					H	21.63		
				E1	V	21.65		
					H	21.70		
				E2	V	21.64		
					H	21.96		
	Highest	75	0	H	V	21.68	33.00	Pass
					H	21.82		
				E1	V	21.86		
					H	21.93		
				E2	V	21.73		
					H	21.61		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (20MHz) QPSK	Lowest	100	0	H	V	21.42	33.00	Pass
					H	21.40		
				E1	V	21.33		
					H	21.69		
				E2	V	21.54		
					H	21.61		
	Middle	100	0	H	V	21.67	33.00	Pass
					H	21.21		
				E1	V	21.24		
					H	21.22		
				E2	V	21.38		
					H	21.55		
	Highest	100	0	H	V	21.32	33.00	Pass
					H	21.61		
				E1	V	21.21		
					H	21.45		
				E2	V	21.67		
					H	21.24		

EUT mode	RB Size	RB Offset	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
LTE Band 2 (1.4MHz) 16 QAM	6	0	Lowest	H	V	23.38	33.00	Pass
					H	23.23		
				E1	V	23.40		
					H	23.42		
				E2	V	23.28		
					H	23.55		
	6	0	Middle	H	V	23.21	33.00	Pass
					H	23.50		
				E1	V	23.43		
					H	23.36		
				E2	V	23.25		
					H	23.62		
	6	0	Highest	H	V	23.24	33.00	Pass
					H	23.69		
				E1	V	23.23		
					H	23.46		
				E2	V	23.55		
					H	23.41		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (3MHz) 16 QAM	Lowest	15	0	H	V	23.05	33.00	Pass
					H	22.89		
				E1	V	23.03		
					H	23.09		
				E2	V	22.93		
					H	22.93		
	Middle	15	0	H	V	22.91	33.00	Pass
					H	22.94		
				E1	V	23.17		
					H	23.28		
				E2	V	22.85		
					H	22.89		
	Highest	15	0	H	V	23.09	33.00	Pass
					H	23.26		
				E1	V	23.27		
					H	22.97		
				E2	V	23.11		
					H	22.84		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (5MHz) 16 QAM	Lowest	25	0	H	V	22.70	33.00	Pass
					H	22.83		
				E1	V	22.84		
					H	22.87		
				E2	V	22.84		
					H	22.52		
	Middle	25	0	H	V	22.70	33.00	Pass
					H	22.42		
				E1	V	22.49		
					H	22.81		
				E2	V	22.61		
					H	22.77		
	Highest	25	0	H	V	22.90	33.00	Pass
					H	22.44		
				E1	V	22.88		
					H	22.88		
				E2	V	22.85		
					H	22.51		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (10MHz) 16 QAM	Lowest	50	0	H	V	22.21	33.00	Pass
					H	22.31		
				E1	V	22.24		
					H	22.08		
				E2	V	22.07		
					H	22.05		
	Middle	50	0	H	V	22.08	33.00	Pass
					H	22.15		
				E1	V	22.22		
					H	22.12		
				E2	V	22.06		
					H	22.11		
	Highest	50	0	H	V	22.47	33.00	Pass
					H	22.10		
				E1	V	22.25		
					H	22.20		
				E2	V	22.17		
					H	22.28		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (15MHz) 16 QAM	Lowest	75	0	H	V	22.00	33.00	Pass
					H	21.95		
				E1	V	21.89		
					H	21.79		
				E2	V	21.72		
					H	21.71		
	Middle	75	0	H	V	21.66	33.00	Pass
					H	21.65		
				E1	V	21.64		
					H	21.87		
				E2	V	21.95		
					H	22.10		
	Highest	75	0	H	V	21.66	33.00	Pass
					H	21.98		
				E1	V	21.73		
					H	21.88		
				E2	V	22.06		
					H	21.90		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (20MHz) 16 QAM	Lowest	100	0	H	V	21.60	33.00	Pass
					H	21.56		
				E1	V	21.23		
					H	21.50		
				E2	V	21.60		
					H	21.47		
	Middle	100	0	H	V	21.61	33.00	Pass
					H	21.51		
				E1	V	21.22		
					H	21.24		
				E2	V	21.60		
					H	21.41		
	Highest	100	0	H	V	21.31	33.00	Pass
					H	21.64		
				E1	V	21.57		
					H	21.64		
				E2	V	21.37		
					H	21.32		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (1.4MHz) QPSK	Lowest	6	0	H	V	23.61	30.00	Pass
					H	23.75		
				E1	V	23.57		
					H	23.56		
				E2	V	23.64		
					H	23.57		
	Middle	6	0	H	V	23.33	30.00	Pass
					H	23.79		
				E1	V	23.48		
					H	23.46		
				E2	V	23.38		
					H	23.42		
	Highest	6	0	H	V	23.35	30.00	Pass
					H	23.56		
				E1	V	23.37		
					H	23.80		
				E2	V	23.34		
					H	23.66		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (3MHz) QPSK	Lowest	15	0	H	V	23.13	30.00	Pass
					H	23.05		
				E1	V	23.05		
					H	23.27		
				E2	V	23.07		
					H	23.24		
	Middle	15	0	H	V	23.31	30.00	Pass
					H	23.13		
				E1	V	23.07		
					H	23.02		
				E2	V	23.10		
					H	22.99		
	Highest	15	0	H	V	23.38	30.00	Pass
					H	23.18		
				E1	V	23.08		
					H	23.33		
				E2	V	23.23		
					H	22.96		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (5MHz) QPSK	Lowest	25	0	H	V	22.92	30.00	Pass
					H	23.00		
				E1	V	22.74		
					H	22.61		
				E2	V	22.80		
					H	22.65		
	Middle	25	0	H	V	22.79	30.00	Pass
					H	22.98		
				E1	V	22.91		
					H	22.82		
				E2	V	22.96		
					H	22.73		
	Highest	25	0	H	V	22.62	30.00	Pass
					H	22.58		
				E1	V	23.04		
					H	22.91		
				E2	V	23.08		
					H	22.66		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (10MHz) QPSK	Lowest	50	0	H	V	22.55	30.00	Pass
					H	22.18		
				E1	V	22.22		
					H	22.37		
				E2	V	22.59		
					H	22.39		
	Middle	50	0	H	V	22.45	30.00	Pass
					H	22.58		
				E1	V	22.48		
					H	22.32		
				E2	V	22.40		
					H	22.52		
	Highest	50	0	H	V	22.52	30.00	Pass
					H	22.55		
				E1	V	22.45		
					H	22.50		
				E2	V	22.61		
					H	22.20		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (15MHz) QPSK	Lowest	75	0	H	V	22.07	30.00	Pass
					H	21.81		
				E1	V	22.25		
					H	22.01		
				E2	V	22.19		
					H	21.78		
	Middle	75	0	H	V	21.96	30.00	Pass
					H	22.26		
				E1	V	22.00		
					H	22.15		
				E2	V	21.77		
					H	21.85		
	Highest	75	0	H	V	21.88	30.00	Pass
					H	22.04		
				E1	V	21.79		
					H	22.16		
				E2	V	21.81		
					H	22.18		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (20MHz) QPSK	Lowest	100	0	H	V	21.65	30.00	Pass
					H	21.57		
				E1	V	21.82		
					H	21.73		
				E2	V	21.81		
					H	21.73		
	Middle	100	0	H	V	21.82	30.00	Pass
					H	21.42		
				E1	V	21.75		
					H	21.60		
				E2	V	21.61		
					H	21.65		
	Highest	100	0	H	V	21.48	30.00	Pass
					H	21.83		
				E1	V	21.69		
					H	21.58		
				E2	V	21.46		
					H	21.63		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (1.4MHz) 16 QAM	Lowest	6	0	H	V	23.59	30.00	Pass
					H	23.57		
				E1	V	23.54		
					H	23.62		
				E2	V	23.66		
					H	23.60		
	Middle	6	0	H	V	23.46	30.00	Pass
					H	23.65		
				E1	V	23.58		
					H	23.49		
				E2	V	23.59		
					H	23.51		
	Highest	6	0	H	V	23.57	30.00	Pass
					H	23.55		
				E1	V	23.67		
					H	23.72		
				E2	V	23.59		
					H	23.51		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (3MHz) 16 QAM	Lowest	15	0	H	V	23.06	30.00	Pass
					H	23.21		
				E1	V	23.26		
					H	23.03		
				E2	V	23.05		
					H	23.18		
	Middle	15	0	H	V	23.03	30.00	Pass
					H	23.01		
				E1	V	23.25		
					H	22.94		
				E2	V	23.38		
					H	23.02		
	Highest	15	0	H	V	23.06	30.00	Pass
					H	23.21		
				E1	V	23.06		
					H	23.36		
				E2	V	23.28		
					H	23.04		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (5MHz) 16 QAM	Lowest	25	0	H	V	22.55	30.00	Pass
					H	22.98		
				E1	V	22.99		
					H	22.62		
				E2	V	23.00		
					H	22.96		
	Middle	25	0	H	V	22.67	30.00	Pass
					H	23.01		
				E1	V	22.99		
					H	22.65		
				E2	V	22.56		
					H	22.62		
	Highest	25	0	H	V	22.95	30.00	Pass
					H	22.57		
				E1	V	22.66		
					H	22.76		
				E2	V	22.90		
					H	22.66		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (10MHz) 16 QAM	Lowest	50	0	H	V	22.61	30.00	Pass
					H	22.23		
				E1	V	22.57		
					H	22.60		
				E2	V	22.22		
					H	22.56		
	Middle	50	0	H	V	22.16	30.00	Pass
					H	22.29		
				E1	V	22.48		
					H	22.15		
				E2	V	22.38		
					H	22.23		
	Highest	50	0	H	V	22.23	30.00	Pass
					H	22.37		
				E1	V	22.31		
					H	22.22		
				E2	V	22.36		
					H	22.53		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (15MHz) 16 QAM	Lowest	75	0	H	V	21.92	30.00	Pass
					H	22.19		
				E1	V	21.78		
					H	22.01		
				E2	V	22.10		
					H	22.14		
	Middle	75	0	H	V	21.89	30.00	Pass
					H	22.00		
				E1	V	22.21		
					H	21.89		
				E2	V	22.07		
					H	22.08		
	Highest	75	0	H	V	22.14	30.00	Pass
					H	22.01		
				E1	V	21.98		
					H	22.05		
				E2	V	21.83		
					H	21.90		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (20MHz) 16 QAM	Lowest	100	0	H	V	21.59	30.00	Pass
					H	21.60		
				E1	V	21.84		
					H	21.68		
				E2	V	21.87		
					H	21.76		
	Middle	100	0	H	V	21.77	30.00	Pass
					H	21.79		
				E1	V	21.40		
					H	21.40		
				E2	V	21.64		
					H	21.78		
	Highest	100	0	H	V	21.61	30.00	Pass
					H	21.72		
				E1	V	21.52		
					H	21.51		
				E2	V	21.68		
					H	21.88		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (1.4MHz) QPSK	Lowest	6	0	H	V	23.54	38.45	Pass
					H	23.43		
				E1	V	23.61		
					H	23.84		
				E2	V	23.79		
					H	23.61		
	Middle	6	0	H	V	23.43	38.45	Pass
					H	23.54		
				E1	V	23.51		
					H	23.46		
				E2	V	23.50		
					H	23.76		
	Highest	6	0	H	V	23.80	38.45	Pass
					H	23.52		
				E1	V	23.47		
					H	23.67		
				E2	V	23.46		
					H	23.53		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (3MHz) QPSK	Lowest	15	0	H	V	23.42	38.45	Pass
					H	23.20		
				E1	V	23.26		
					H	23.15		
				E2	V	23.41		
					H	23.21		
	Middle	15	0	H	V	23.15	38.45	Pass
					H	23.48		
				E1	V	23.45		
					H	23.17		
				E2	V	23.29		
					H	23.51		
	Highest	15	0	H	V	23.16	38.45	Pass
					H	23.49		
				E1	V	23.21		
					H	23.29		
				E2	V	23.11		
					H	23.25		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (5MHz) QPSK	Lowest	25	0	H	V	23.07	38.45	Pass
					H	22.89		
				E1	V	23.01		
					H	22.98		
				E2	V	22.91		
					H	23.12		
	Middle	25	0	H	V	22.67	38.45	Pass
					H	22.81		
				E1	V	23.04		
					H	22.86		
				E2	V	23.04		
					H	22.82		
	Highest	25	0	H	V	22.88	38.45	Pass
					H	22.97		
				E1	V	22.93		
					H	22.97		
				E2	V	22.78		
					H	23.11		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) QPSK	Lowest	50	0	H	V	22.75	38.45	Pass
					H	22.62		
				E1	V	22.59		
					H	22.36		
				E2	V	22.68		
					H	22.52		
	Middle	50	0	H	V	22.38	38.45	Pass
					H	22.40		
				E1	V	22.73		
					H	22.74		
				E2	V	22.49		
					H	22.30		
	Highest	50	0	H	V	22.60	38.45	Pass
					H	22.51		
				E1	V	22.52		
					H	22.39		
				E2	V	22.74		
					H	22.27		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (1.4MHz) 16 QAM	Lowest	6	0	H	V	23.75	38.45	Pass
					H	23.70		
				E1	V	23.74		
					H	23.66		
				E2	V	23.49		
					H	23.82		
	Middle	6	0	H	V	23.64	38.45	Pass
					H	23.43		
				E1	V	23.60		
					H	23.57		
				E2	V	23.56		
					H	23.69		
	Highest	6	0	H	V	23.78	38.45	Pass
					H	23.74		
				E1	V	23.55		
					H	23.77		
				E2	V	23.84		
					H	23.75		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (3MHz) 16 QAM	Lowest	15	0	H	V	23.34	38.45	Pass
					H	23.03		
				E1	V	23.03		
					H	23.41		
				E2	V	23.29		
					H	23.47		
	Middle	15	0	H	V	23.46	38.45	Pass
					H	23.18		
				E1	V	23.41		
					H	23.37		
				E2	V	23.40		
					H	23.36		
	Highest	15	0	H	V	23.22	38.45	Pass
					H	23.32		
				E1	V	23.28		
					H	23.43		
				E2	V	23.12		
					H	23.03		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (5MHz) 16 QAM	Lowest	25	0	H	V	22.91	38.45	Pass
					H	22.73		
				E1	V	23.16		
					H	22.99		
				E2	V	23.17		
					H	22.78		
	Middle	25	0	H	V	23.00	38.45	Pass
					H	23.05		
				E1	V	22.91		
					H	22.73		
				E2	V	22.77		
					H	23.00		
	Highest	25	0	H	V	23.04	38.45	Pass
					H	23.14		
				E1	V	23.12		
					H	22.87		
				E2	V	23.02		
					H	22.74		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) 16 QAM	Lowest	50	0	H	V	22.27	38.45	Pass
					H	22.70		
				E1	V	22.51		
					H	22.73		
				E2	V	22.58		
					H	22.57		
	Middle	50	0	H	V	22.71	38.45	Pass
					H	22.26		
				E1	V	22.29		
					H	22.61		
				E2	V	22.47		
					H	22.48		
	Highest	50	0	H	V	22.42	38.45	Pass
					H	22.28		
				E1	V	22.71		
					H	22.70		
				E2	V	22.35		
					H	22.30		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) QPSK	Lowest	25	0	H	V	23.59	33.00	Pass
					H	23.62		
				E1	V	23.64		
					H	23.78		
				E2	V	23.68		
					H	24.00		
	Middle	25	0	H	V	23.90	33.00	Pass
					H	23.64		
				E1	V	23.73		
					H	23.69		
				E2	V	23.85		
					H	23.99		
	Highest	25	0	H	V	23.63	33.00	Pass
					H	23.77		
				E1	V	23.93		
					H	23.97		
				E2	V	23.64		
					H	23.83		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) QPSK	Lowest	50	0	H	V	23.45	33.00	Pass
					H	23.52		
				E1	V	23.63		
					H	23.30		
				E2	V	23.44		
					H	23.30		
	Middle	50	0	H	V	23.62	33.00	Pass
					H	23.32		
				E1	V	23.39		
					H	23.65		
				E2	V	23.61		
					H	23.34		
	Highest	50	0	H	V	23.25	33.00	Pass
					H	23.48		
				E1	V	23.58		
					H	23.55		
				E2	V	23.64		
					H	23.64		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) QPSK	Lowest	75	0	H	V	22.91	33.00	Pass
					H	23.01		
				E1	V	22.89		
					H	23.03		
				E2	V	22.93		
					H	23.16		
	Middle	75	0	H	V	23.21	33.00	Pass
					H	22.96		
				E1	V	22.85		
					H	23.02		
				E2	V	22.72		
					H	22.85		
	Highest	75	0	H	V	22.91	33.00	Pass
					H	22.86		
				E1	V	23.02		
					H	23.03		
				E2	V	23.12		
					H	22.92		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) QPSK	Lowest	100	0	H	V	22.69	33.00	Pass
					H	22.82		
				E1	V	22.61		
					H	22.79		
				E2	V	22.69		
					H	22.85		
	Middle	100	0	H	V	22.78	33.00	Pass
					H	22.73		
				E1	V	22.74		
					H	22.54		
				E2	V	22.37		
					H	22.37		
	Highest	100	0	H	V	22.37	33.00	Pass
					H	22.62		
				E1	V	22.51		
					H	22.46		
				E2	V	22.65		
					H	22.61		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) 16 QAM	Lowest	25	0	H	V	23.67	33.00	Pass
					H	23.62		
				E1	V	23.76		
					H	24.01		
				E2	V	23.68		
					H	23.70		
	Middle	25	0	H	V	23.84	33.00	Pass
					H	23.59		
				E1	V	23.56		
					H	23.57		
				E2	V	23.88		
					H	23.78		
	Highest	25	0	H	V	23.64	33.00	Pass
					H	23.59		
				E1	V	23.54		
					H	23.72		
				E2	V	23.66		
					H	23.65		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) 16 QAM	Lowest	50	0	H	V	23.22	33.00	Pass
					H	23.51		
				E1	V	23.25		
					H	23.24		
				E2	V	23.28		
					H	23.29		
	Middle	50	0	H	V	23.35	33.00	Pass
					H	23.27		
				E1	V	23.36		
					H	23.49		
				E2	V	23.48		
					H	23.45		
	Highest	50	0	H	V	23.14	33.00	Pass
					H	23.13		
				E1	V	23.52		
					H	23.52		
				E2	V	23.37		
					H	23.58		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) 16 QAM	Lowest	75	0	H	V	22.77	33.00	Pass
					H	23.02		
				E1	V	22.90		
					H	23.10		
				E2	V	23.12		
					H	22.78		
	Middle	75	0	H	V	23.08	33.00	Pass
					H	23.25		
				E1	V	23.00		
					H	23.01		
				E2	V	23.19		
					H	22.91		
	Highest	75	0	H	V	23.19	33.00	Pass
					H	23.11		
				E1	V	22.86		
					H	22.82		
				E2	V	23.20		
					H	23.00		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) 16 QAM	Lowest	100	0	H	V	22.43	33.00	Pass
					H	22.39		
				E1	V	22.42		
					H	22.54		
				E2	V	22.46		
					H	22.58		
	Middle	100	0	H	V	22.45	33.00	Pass
					H	22.38		
				E1	V	22.33		
					H	22.57		
				E2	V	22.70		
					H	22.51		
	Highest	100	0	H	V	22.41	33.00	Pass
					H	22.70		
				E1	V	22.44		
					H	22.80		
				E2	V	22.57		
					H	22.71		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) QPSK	Lowest	6	0	H	V	23.46	33.00	Pass
					H	23.67		
				E1	V	23.82		
					H	23.62		
				E2	V	23.57		
					H	23.53		
	Middle	6	0	H	V	23.64	33.00	Pass
					H	23.57		
				E1	V	23.82		
					H	23.68		
				E2	V	23.42		
					H	23.69		
	Highest	6	0	H	V	23.60	33.00	Pass
					H	23.84		
				E1	V	23.81		
					H	23.54		
				E2	V	23.45		
					H	23.69		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (3MHz) QPSK	Lowest	15	0	H	V	23.05	33.00	Pass
					H	23.13		
				E1	V	23.10		
					H	23.05		
				E2	V	22.97		
					H	23.13		
	Middle	15	0	H	V	23.42	33.00	Pass
					H	23.40		
				E1	V	23.35		
					H	23.17		
				E2	V	23.41		
					H	22.97		
	Highest	15	0	H	V	23.04	33.00	Pass
					H	23.24		
				E1	V	23.20		
					H	23.40		
				E2	V	23.41		
					H	23.18		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (5MHz) QPSK	Lowest	25	0	H	V	23.01	33.00	Pass
					H	22.70		
				E1	V	23.05		
					H	22.59		
				E2	V	23.03		
					H	23.00		
	Middle	25	0	H	V	23.04	33.00	Pass
					H	22.79		
				E1	V	22.62		
					H	22.65		
				E2	V	23.00		
					H	22.90		
	Highest	25	0	H	V	22.78	33.00	Pass
					H	22.84		
				E1	V	22.98		
					H	22.87		
				E2	V	22.75		
					H	22.87		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (10MHz) QPSK	Lowest	50	0	H	V	22.55	33.00	Pass
					H	22.48		
				E1	V	22.29		
					H	22.28		
				E2	V	22.46		
					H	22.54		
	Middle	50	0	H	V	22.25	33.00	Pass
					H	22.34		
				E1	V	22.46		
					H	22.62		
				E2	V	22.27		
					H	22.60		
	Highest	50	0	H	V	22.49	33.00	Pass
					H	22.41		
				E1	V	22.52		
					H	22.34		
				E2	V	22.21		
					H	22.61		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) 16QAM	Lowest	6	0	H	V	23.53	33.00	Pass
					H	23.77		
				E1	V	23.76		
					H	23.51		
				E2	V	23.43		
					H	23.50		
	Middle	6	0	H	V	23.83	33.00	Pass
					H	23.78		
				E1	V	23.68		
					H	23.36		
				E2	V	23.61		
					H	23.67		
	Highest	6	0	H	V	23.44	33.00	Pass
					H	23.41		
				E1	V	23.56		
					H	23.54		
				E2	V	23.64		
					H	23.57		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (3MHz) 16QAM	Lowest	15	0	H	V	23.12	33.00	Pass
					H	23.12		
				E1	V	23.05		
					H	23.12		
				E2	V	23.04		
					H	23.25		
	Middle	15	0	H	V	23.34	33.00	Pass
					H	23.18		
				E1	V	23.25		
					H	23.43		
				E2	V	23.08		
					H	23.23		
	Highest	15	0	H	V	23.05	33.00	Pass
					H	23.11		
				E1	V	23.31		
					H	23.11		
				E2	V	23.26		
					H	23.13		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (5MHz) 16QAM	Lowest	25	0	H	V	22.57	33.00	Pass
					H	23.03		
				E1	V	22.72		
					H	23.02		
				E2	V	22.86		
					H	22.58		
	Middle	25	0	H	V	22.91	33.00	Pass
					H	22.83		
				E1	V	22.76		
					H	22.60		
				E2	V	22.67		
					H	22.77		
	Highest	25	0	H	V	22.80	33.00	Pass
					H	23.00		
				E1	V	22.92		
					H	22.89		
				E2	V	22.89		
					H	22.79		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (10MHz) 16QAM	Lowest	50	0	H	V	22.61	33.00	Pass
					H	22.21		
				E1	V	22.25		
					H	22.37		
				E2	V	22.38		
					H	22.64		
	Middle	50	0	H	V	22.42	33.00	Pass
					H	22.34		
				E1	V	22.51		
					H	22.44		
				E2	V	22.32		
					H	22.23		
	Highest	50	0	H	V	22.38	33.00	Pass
					H	22.51		
				E1	V	22.55		
					H	22.20		
				E2	V	22.19		
					H	22.51		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (5MHz) QPSK	Lowest	25	0	H	V	23.70	34.77	Pass
					H	23.75		
				E1	V	23.80		
					H	23.82		
				E2	V	23.56		
					H	23.56		
	Middle	25	0	H	V	23.85	34.77	Pass
					H	23.58		
				E1	V	23.86		
					H	23.69		
				E2	V	23.46		
					H	23.88		
	Highest	25	0	H	V	23.74	34.77	Pass
					H	23.49		
				E1	V	23.73		
					H	23.84		
				E2	V	23.69		
					H	23.95		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (10MHz) QPSK	Middle	50	0	H	V	23.34	34.77	Pass
					H	23.30		
				E1	V	23.10		
					H	23.19		
				E2	V	23.59		
					H	23.32		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (5MHz) 16QAM	Lowest	25	0	H	V	23.88	34.77	Pass
					H	23.56		
				E1	V	23.78		
					H	23.88		
				E2	V	23.81		
					H	23.69		
	Middle	25	0	H	V	23.55	34.77	Pass
					H	23.95		
				E1	V	23.56		
					H	23.59		
				E2	V	23.78		
					H	23.78		
	Highest	25	0	H	V	23.81	34.77	Pass
					H	23.49		
				E1	V	23.69		
					H	23.83		
				E2	V	23.66		
					H	23.54		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (10MHz) 16QAM	Middle	50	0	H	V	23.37	34.77	Pass
					H	23.12		
				E1	V	23.37		
					H	23.30		
				E2	V	23.52		
					H	23.50		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (5MHz) QPSK	Lowest	25	0	H	V	23.84	33.00	Pass
					H	23.57		
				E1	V	23.82		
					H	23.70		
				E2	V	23.53		
					H	23.64		
	Middle	25	0	H	V	23.89	33.00	Pass
					H	23.94		
				E1	V	23.99		
					H	23.99		
				E2	V	23.74		
					H	23.69		
	Highest	25	0	H	V	23.59	33.00	Pass
					H	23.83		
				E1	V	23.80		
					H	24.01		
				E2	V	23.88		
					H	23.52		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (10MHz) QPSK	Lowest	50	0	H	V	23.18	33.00	Pass
					H	23.28		
				E1	V	23.28		
					H	23.43		
				E2	V	23.20		
					H	23.40		
	Middle	50	0	H	V	23.33	33.00	Pass
					H	23.55		
				E1	V	23.61		
					H	23.33		
				E2	V	23.33		
					H	23.54		
	Highest	50	0	H	V	23.46	33.00	Pass
					H	23.65		
				E1	V	23.39		
					H	23.51		
				E2	V	23.65		
					H	23.52		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (15MHz) QPSK	Lowest	75	0	H	V	23.15	33.00	Pass
					H	22.97		
				E1	V	22.98		
					H	22.97		
				E2	V	22.93		
					H	23.10		
	Middle	75	0	H	V	23.16	33.00	Pass
					H	23.14		
				E1	V	23.02		
					H	23.15		
				E2	V	23.15		
					H	23.10		
	Highest	75	0	H	V	23.04	33.00	Pass
					H	22.99		
				E1	V	23.09		
					H	22.76		
				E2	V	22.96		
					H	22.95		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (20MHz) QPSK	Lowest	100	0	H	V	22.41	33.00	Pass
					H	22.66		
				E1	V	22.45		
					H	22.64		
				E2	V	22.72		
					H	22.52		
	Middle	100	0	H	V	22.44	33.00	Pass
					H	22.43		
				E1	V	22.65		
					H	22.82		
				E2	V	22.73		
					H	22.42		
	Highest	100	0	H	V	22.40	33.00	Pass
					H	22.80		
				E1	V	22.74		
					H	22.86		
				E2	V	22.55		
					H	22.43		

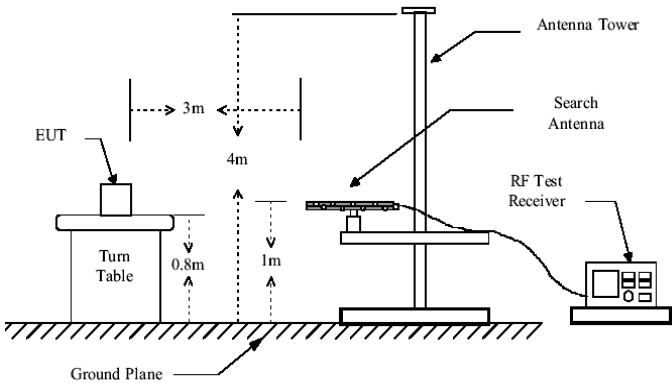
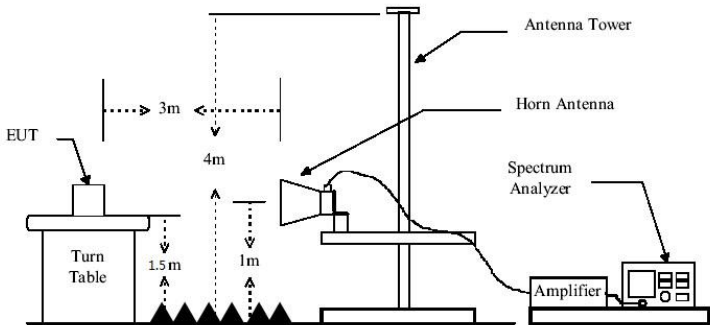
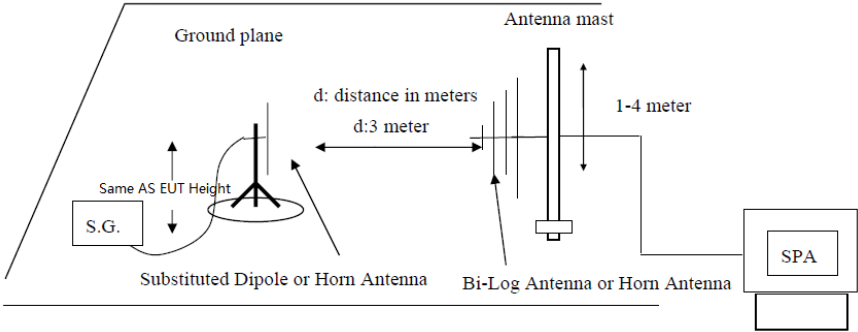
EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (5MHz) 16 QAM	Lowest	25	0	H	V	23.65	33.00	Pass
					H	23.66		
				E1	V	23.93		
					H	23.58		
				E2	V	23.76		
					H	23.62		
	Middle	25	0	H	V	23.86	33.00	Pass
					H	23.79		
				E1	V	23.94		
					H	23.72		
				E2	V	23.65		
					H	23.95		
	Highest	25	0	H	V	24.01	33.00	Pass
					H	23.78		
				E1	V	23.65		
					H	23.89		
				E2	V	23.84		
					H	23.70		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (10MHz) 16 QAM	Lowest	50	0	H	V	23.37	33.00	Pass
					H	23.45		
				E1	V	23.34		
					H	23.62		
				E2	V	23.28		
					H	23.22		
	Middle	50	0	H	V	23.27	33.00	Pass
					H	23.30		
				E1	V	23.22		
					H	23.28		
				E2	V	23.25		
					H	23.63		
	Highest	50	0	H	V	23.26	33.00	Pass
					H	23.33		
				E1	V	23.23		
					H	23.53		
				E2	V	23.34		
					H	23.26		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (15MHz) 16 QAM	Lowest	75	0	H	V	23.12	33.00	Pass
					H	22.94		
				E1	V	23.16		
					H	23.06		
				E2	V	22.76		
					H	23.21		
	Middle	75	0	H	V	23.19	33.00	Pass
					H	22.89		
				E1	V	22.80		
					H	22.88		
				E2	V	22.84		
					H	23.06		
	Highest	75	0	H	V	22.99	33.00	Pass
					H	23.08		
				E1	V	22.78		
					H	22.96		
				E2	V	23.18		
					H	22.96		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (20MHz) 16 QAM	Lowest	100	0	H	V	22.67	33.00	Pass
					H	22.70		
				E1	V	22.63		
					H	22.71		
				E2	V	22.47		
					H	22.55		
	Middle	100	0	H	V	22.44	33.00	Pass
					H	22.79		
				E1	V	22.63		
					H	22.76		
				E2	V	22.54		
					H	22.54		
	Highest	100	0	H	V	22.43	33.00	Pass
					H	22.57		
				E1	V	22.76		
					H	22.53		
				E2	V	22.67		
					H	22.41		

4.9 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.913(a), FCC part24.238(a) and FCC part27.53
Test Method:	ANSI C63.26:2015
Limit:	Band 2/4/5/12/17/26:-13dBm Band 7/41:-25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ 5. Compliance with the provisions of part 27 paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data:

QPSK Mode:

Test mode:	LTE Band 2(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.79	V	-36.26	-13.00	Pass
5552.06	V	-34.69		
7402.60	V	-35.00		
9253.03	V	-34.12		
11103.84	V	-36.16		
3701.38	H	-36.19	-13.00	Pass
5551.21	H	-34.30		
7402.13	H	-35.01		
9253.42	H	-34.91		
11104.00	H	-36.13		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.82	V	-32.51	-13.00	Pass
5639.51	V	-29.96		
7519.41	V	-28.59		
9399.41	V	-29.23		
11279.73	V	-30.30		
3759.40	H	-26.59	-13.00	Pass
5639.87	H	-29.91		
7519.13	H	-27.60		
9400.00	H	-28.80		
11279.44	H	-28.89		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.04	V	-32.67	-13.00	Pass
5727.28	V	-27.48		
7636.65	V	-31.42		
9545.96	V	-29.74		
11454.85	V	-31.41		
3818.51	H	-29.65	-13.00	Pass
5727.06	H	-28.84		
7636.37	H	-26.91		
9546.32	H	-28.45		
11455.12	H	-29.08		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3421.29	V	-30.06	-13.00	Pass
5131.12	V	-29.65		
6841.97	V	-28.72		
8553.44	V	-27.11		
10263.66	V	-29.31		
3420.98	H	-27.53	-13.00	Pass
5132.07	H	-29.89		
6842.53	H	-28.77		
8552.73	H	-27.04		
10263.75	H	-30.55		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3464.71	V	-31.01	-13.00	Pass
5196.83	V	-31.45		
6929.98	V	-27.92		
8662.30	V	-29.88		
10394.18	V	-27.47		
3464.16	H	-29.04	-13.00	Pass
5196.73	H	-26.86		
6929.46	H	-27.64		
8661.61	H	-30.46		
10394.07	H	-28.97		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.6	V	-32.86	-13.00	Pass
5262.9	V	-29.27		
7017.2	V	-29.56		
8771.5	V	-29.43		
10525.8	V	-27.59		
3508.6	H	-26.51	-13.00	Pass
5262.9	H	-27.05		
7017.2	H	-29.76		
8771.5	H	-29.96		
10525.8	H	-26.46		

Remark:

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1650.90	V	-32.56	-13.00	Pass
2477.02	V	-29.02		
3302.74	V	-27.98		
4128.47	V	-29.44		
4953.97	V	-27.23		
1651.08	H	-29.93	-13.00	Pass
2476.80	H	-26.47		
3302.77	H	-30.41		
4127.67	H	-28.55		
4953.39	H	-29.80		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.47	V	-33.73	-13.00	Pass
2510.58	V	-27.49		
3347.73	V	-29.63		
4184.66	V	-30.86		
5021.32	V	-31.24		
1673.02	H	-31.39	-13.00	Pass
2510.88	H	-27.24		
3347.89	H	-30.86		
4184.61	H	-29.13		
5021.67	H	-26.89		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1696.31	V	-34.52	-13.00	Pass
2544.30	V	-29.19		
3393.02	V	-27.06		
4241.26	V	-30.53		
5089.37	V	-28.17		
1695.85	H	-30.45	-13.00	Pass
2544.00	H	-28.20		
3392.57	H	-30.30		
4240.76	H	-31.29		
5088.92	H	-28.55		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5004.74	V	-33.85	-25.00	Pass
7507.14	V	-28.83		
10009.91	V	-27.30		
12512.05	V	-28.17		
15014.68	V	-29.54		
5004.12	H	-26.94	-25.00	Pass
7507.18	H	-27.84		
10009.85	H	-31.63		
12512.36	H	-29.50		
15014.86	H	-30.70		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5069.21	V	-31.94	-25.00	Pass
7604.12	V	-30.72		
10139.90	V	-28.40		
12674.86	V	-28.33		
15209.03	V	-30.23		
5069.51	H	-28.52	-25.00	Pass
7604.81	H	-28.16		
10139.36	H	-30.15		
12674.89	H	-26.48		
15209.19	H	-29.79		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.36	V	-33.97	-25.00	Pass
7701.94	V	-30.24		
10269.54	V	-28.98		
12836.85	V	-30.66		
15404.24	V	-29.19		
5134.95	H	-30.64	-25.00	Pass
7702.23	H	-31.48		
10269.90	H	-30.20		
12836.54	H	-29.58		
15404.93	H	-28.64		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 12(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1399.38	V	-32.72	-13.00	Pass
2098.57	V	-31.72		
2797.81	V	-26.25		
3498.34	V	-30.12		
4197.36	V	-27.56		
1398.70	H	-30.29	-13.00	Pass
2098.19	H	-28.04		
2798.46	H	-27.98		
3498.17	H	-27.36		
4198.09	H	-28.45		
Test mode:	LTE Band 12(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1414.48	V	-33.98	-13.00	Pass
2121.65	V	-29.06		
2829.23	V	-29.52		
3536.91	V	-27.40		
4244.80	V	-28.34		
1414.21	H	-28.94	-13.00	Pass
2121.60	H	-30.20		
2829.78	H	-28.16		
3537.24	H	-26.35		
4244.90	H	-28.32		
Test mode:	LTE Band 12(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1430.40	V	-30.02	-13.00	Pass
2145.71	V	-27.25		
2861.14	V	-31.44		
3575.61	V	-29.56		
4291.62	V	-28.37		
1430.44	H	-29.16	-13.00	Pass
2145.71	H	-28.62		
2860.96	H	-28.83		
3575.70	H	-29.14		
4290.96	H	-30.23		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 13(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1586.42	V	-44.88	-40.00	Pass
768.24	V	-47.52	-35.00	Pass
799.66	V	-58.25	-35.00	Pass
5004.32	V	-33.81	-13.00	Pass
7506.56	V	-30.10		
10010.09	V	-27.88		
12511.53	V	-30.89		
15014.27	V	-28.35		
1586.59	H	-45.09	-40.00	Pass
769.06	H	-48.33	-35.00	Pass
799.38	H	-59.71	-35.00	Pass
5004.34	H	-29.79	-13.00	Pass
7506.49	H	-29.20		
10009.27	H	-30.77		
12511.84	H	-28.51		
15014.74	H	-28.12		
Test mode:	LTE Band 13(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1593.85	V	-45.23	-40.00	Pass
769.68	V	-44.97	-35.00	Pass
798.69	V	-46.84	-35.00	Pass
5069.19	V	-28.60	-13.00	Pass
7604.17	V	-29.89		
10139.76	V	-27.74		
12674.32	V	-28.29		
15209.63	V	-30.23		
1593.93	H	-44.60	-40.00	Pass
768.45	H	-48.21	-35.00	Pass
800.27	H	-47.64	-35.00	Pass
5068.90	H	-30.23	-13.00	Pass
7604.29	H	-28.86		
10139.41	H	-29.97		
12674.83	H	-26.27		
15209.46	H	-27.88		

Test mode:	LTE Band 13(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1578.64	V	-43.42	-40.00	Pass
770.49	V	-50.21	-35.00	Pass
801.02	V	-48.72	-35.00	Pass
5133.93	V	-33.96	-13.00	Pass
7702.30	V	-29.61		
10269.46	V	-28.85		
12836.73	V	-30.89		
15404.03	V	-29.65		
1579.17	H	-44.93	-40.00	Pass
769.34	H	-45.58	-35.00	Pass
799.51	H	-49.73	-35.00	Pass
5134.56	H	-33.72	-13.00	Pass
7701.64	H	-30.66		
10268.99	H	-31.11		
12836.67	H	-28.53		
15404.58	H	-30.15		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 41(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4996.25	V	-37.02	-25.00	Pass
7495.43	V	-35.46		
9993.61	V	-32.27		
12492.09	V	-32.99		
14990.29	V	-33.09		
4996.55	H	-37.22	-25.00	Pass
7495.24	H	-35.93		
9993.77	H	-34.50		
12491.96	H	-33.54		
14990.24	H	-32.65		
Test mode:	LTE Band 41(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5186.00	V	-36.08	-25.00	Pass
7778.05	V	-33.90		
10371.02	V	-34.17		
12964.42	V	-33.93		
15557.98	V	-36.82		
5185.17	H	-33.62	-25.00	Pass
7778.25	H	-35.05		
10371.46	H	-36.61		
12964.72	H	-36.15		
15557.38	H	-36.40		
Test mode:	LTE Band 41(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5374.60	V	-33.44	-25.00	Pass
8061.53	V	-35.69		
10749.02	V	-35.89		
13437.20	V	-36.93		
16124.40	V	-35.18		
5374.40	H	-35.52	-25.00	Pass
8061.73	H	-37.86		
10749.87	H	-33.04		
13437.49	H	-33.00		
16124.34	H	-37.14		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

16 QAM Mode:

Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.52	V	-36.04	-13.00	Pass
5551.89	V	-30.32		
7402.44	V	-34.28		
9252.84	V	-26.87		
11103.77	V	-34.05		
3700.87	H	-30.11	-13.00	Pass
5552.07	H	-37.02		
7401.85	H	-26.82		
9252.97	H	-34.81		
11104.07	H	-27.83		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.45	V	-31.08	-13.00	Pass
5639.76	V	-30.17		
7519.61	V	-27.31		
9399.43	V	-30.36		
11279.68	V	-30.08		
3759.37	H	-30.30	-13.00	Pass
5639.91	H	-30.84		
7519.77	H	-29.08		
9399.25	H	-28.71		
11279.34	H	-28.02		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.14	V	-31.23	-13.00	Pass
5727.05	V	-31.17		
7636.32	V	-27.97		
9546.02	V	-26.86		
11455.38	V	-29.22		
3817.90	H	-31.39	-13.00	Pass
5727.79	H	-27.76		
7636.71	H	-29.23		
9546.26	H	-31.05		
11454.93	H	-26.92		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3420.58	V	-29.29	-13.00	Pass
5131.60	V	-28.69		
6842.05	V	-28.68		
8553.22	V	-27.32		
10263.85	V	-30.97		
3420.67	H	-30.57	-13.00	Pass
5132.08	H	-28.09		
6841.87	H	-28.81		
8552.75	H	-28.98		
10263.91	H	-26.58		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3464.67	V	-27.71	-13.00	Pass
5197.01	V	-27.50		
6929.24	V	-28.09		
8662.14	V	-29.28		
10394.17	V	-26.80		
3464.58	H	-27.58	-13.00	Pass
5197.18	H	-31.56		
6929.92	H	-30.99		
8662.28	H	-27.59		
10394.74	H	-30.52		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3489.78	V	-27.87	-13.00	Pass
5235.75	V	-29.05		
6980.90	V	-31.47		
8725.55	V	-30.74		
10471.39	V	-29.27		
3490.57	H	-28.87	-13.00	Pass
5235.84	H	-31.28		
6981.02	H	-28.59		
8725.53	H	-28.35		
10471.19	H	-28.91		

Remark:

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1651.20	V	-32.25	-13.00	Pass
2476.35	V	-34.00		
3301.90	V	-30.29		
4127.51	V	-33.89		
4953.96	V	-29.34		
1651.33	H	-31.67	-13.00	Pass
2476.29	H	-29.84		
3301.88	H	-34.38		
4128.35	H	-34.18		
4953.29	H	-30.01		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.98	V	-29.49	-13.00	Pass
2510.14	V	-33.12		
3347.43	V	-30.14		
4184.45	V	-30.24		
5021.20	V	-34.12		
1673.11	H	-32.93	-13.00	Pass
2510.17	H	-31.32		
3347.70	H	-31.63		
4184.21	H	-32.46		
5021.86	H	-30.70		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1696.32	V	-30.43	-13.00	Pass
2544.60	V	-30.68		
3392.44	V	-30.37		
4241.10	V	-32.51		
5088.99	V	-30.32		
1696.00	H	-32.55	-13.00	Pass
2544.12	H	-32.40		
3393.02	H	-30.34		
4240.65	H	-33.69		
5088.99	H	-31.86		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5004.29	V	-31.64	-25.00	Pass
7506.90	V	-33.11		
10009.70	V	-34.47		
12512.27	V	-32.82		
15014.71	V	-33.42		
5004.49	H	-32.49	-25.00	Pass
7506.94	H	-30.76		
10009.78	H	-33.22		
12512.20	H	-31.43		
15014.92	H	-30.05		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5069.94	V	-33.20	-25.00	Pass
7604.45	V	-33.31		
10139.51	V	-30.48		
12674.07	V	-30.26		
15209.07	V	-30.27		
5069.21	H	-30.48	-25.00	Pass
7604.30	H	-31.08		
10139.57	H	-33.82		
12674.34	H	-32.19		
15209.28	H	-33.50		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.03	V	-32.63	-25.00	Pass
7702.02	V	-32.03		
10269.19	V	-33.74		
12837.30	V	-30.51		
15404.34	V	-32.23		
5134.23	H	-33.73	-25.00	Pass
7701.98	H	-31.10		
10269.66	H	-32.36		
12837.36	H	-34.11		
15404.25	H	-31.14		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1398.68	V	-32.80	-13.00	Pass
2098.43	V	-32.11		
2798.17	V	-32.57		
3498.31	V	-31.50		
4197.79	V	-30.02		
1398.58	H	-30.61	-13.00	Pass
2098.62	H	-32.28		
2798.66	H	-32.14		
3498.21	H	-31.86		
4197.26	H	-29.91		
Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1414.89	V	-32.40	-13.00	Pass
2121.86	V	-31.91		
2829.77	V	-30.78		
3537.15	V	-33.91		
4244.87	V	-31.65		
1414.10	H	-30.90	-13.00	Pass
2122.32	H	-30.95		
2829.71	H	-34.39		
3536.64	H	-32.47		
4244.36	H	-31.44		
Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1430.49	V	-32.62	-13.00	Pass
2145.49	V	-34.22		
2861.01	V	-32.79		
3575.56	V	-31.24		
4290.94	V	-30.55		
1430.34	H	-30.17	-13.00	Pass
2145.40	H	-31.36		
2860.77	H	-34.21		
3575.65	H	-32.73		
4291.29	H	-34.43		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 13(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1582.48	V	-45.63	-40	Pass
768.79	V	-48.25	-35	Pass
797.56	V	-46.92	-35	Pass
5004.71	V	-34.37	-13.00	Pass
7506.96	V	-31.53		
10009.17	V	-32.78		
12511.56	V	-32.43		
15014.49	V	-30.46		
1580.37	H	-46.13	-40	Pass
770.62	H	-47.35	-35	Pass
800.32	H	-48.59	-35	Pass
5004.85	H	-30.33	-13.00	Pass
7506.58	H	-34.25		
10008.98	H	-33.54		
12512.19	H	-34.33		
15013.72	H	-30.17		
Test mode:	LTE Band 13(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1585.08	V	-44.12	-40	Pass
768.39	V	-49.16	-35	Pass
799.86	V	-47.82	-35	Pass
5069.75	V	-31.15	-13.00	Pass
7604.47	V	-33.02		
10139.11	V	-32.70		
12674.84	V	-31.72		
15209.47	V	-30.41		
1576.07	H	-46.87	-40	Pass
771.54	H	-48.55	-35	Pass
800.30	H	-46.21	-35	Pass
5069.26	H	-32.01	-13.00	Pass
7603.78	H	-33.20		
10139.10	H	-32.25		
12674.60	H	-34.73		
15209.52	H	-31.97		

Test mode:	LTE Band 13(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1581.23	V	-45.72	-40	Pass
771.85	V	-49.02	-35	Pass
798.71	V	-48.39	-35	Pass
5134.54	V	-30.65	-13.00	Pass
7701.58	V	-31.04		
10269.62	V	-32.48		
12836.55	V	-30.18		
15404.23	V	-34.15		
1582.91	H	-46.79	-40	Pass
769.02	H	-48.33	-35	Pass
798.82	H	-46.74	-35	Pass
5134.04	H	-32.87	-13.00	Pass
7701.42	H	-30.98		
10269.86	H	-32.24		
12837.20	H	-33.26		
15403.68	H	-32.35		

Remark :

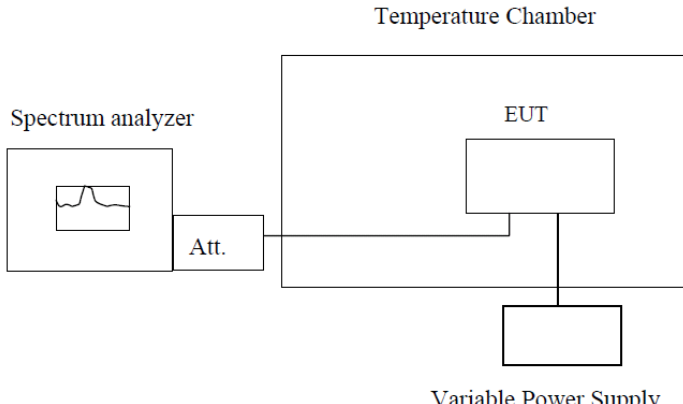
- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 41 (5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4996.10	V	-36.90	-25.00	Pass
7495.47	V	-35.97		
9993.65	V	-36.43		
12492.12	V	-37.33		
14990.30	V	-33.47		
4996.24	H	-36.62	-25.00	Pass
7495.38	H	-37.52		
9993.79	H	-32.27		
12492.49	H	-34.80		
14990.82	H	-32.79		
Test mode:	LTE Band 41 (5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5185.84	V	-32.72	-25.00	Pass
7778.46	V	-33.69		
10371.18	V	-37.49		
12964.99	V	-33.10		
15557.99	V	-34.72		
5185.92	H	-34.05	-25.00	Pass
7778.31	H	-36.73		
10371.48	H	-35.79		
12964.92	H	-34.94		
15557.25	H	-34.90		
Test mode:	LTE Band 41 (5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5374.97	V	-35.98	-25.00	Pass
8061.67	V	-33.79		
10749.90	V	-35.69		
13436.64	V	-34.19		
16124.34	V	-37.04		
5374.55	H	-34.17	-25.00	Pass
8061.87	H	-36.49		
10749.41	H	-35.52		
13437.29	H	-33.78		
16124.55	H	-36.49		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

4.10 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm(Part 22) Within the authorized bands of operation(Part 24, Part 27)
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	If all frequencies stability are comply with the lower limit, then all results can be considered qualified

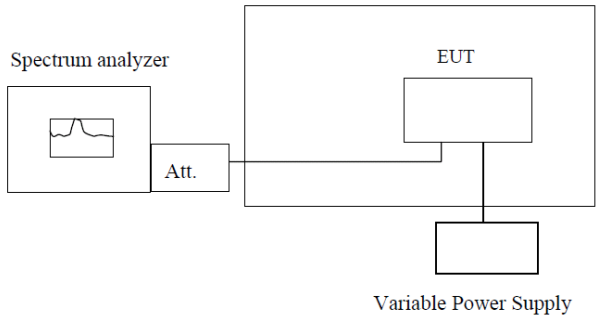
Measurement Data

Reference Frequency: LTE Band 2 Middle channel=18900 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	10	0.0053	Within the authorized bands	Pass
	-10	21	0.0112		
	0	16	0.0085		
	10	-23	-0.0122		
	20	15	0.0080		
	30	6	0.0032		
	40	-4	-0.0021		
	50	1	0.0005		
	60	10	0.0053		
Reference Frequency: LTE Band 4 Middle channel=20175 channel=1732.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	10	0.0058	2.5	Pass
	-10	17	0.0098		
	0	16	0.0092		
	10	-23	-0.0133		
	20	16	0.0092		
	30	8	0.0046		
	40	1	0.0006		
	50	-2	-0.0012		
	60	15	0.0087		
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	11	0.0132	2.5	Pass
	-10	17	0.0203		
	0	16	0.0191		
	10	-23	-0.0275		
	20	20	0.0239		
	30	6	0.0072		
	40	-4	-0.0048		
	50	1	0.0012		
	60	11	0.0132		

Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	10	0.0039	Within the authorized bands	Pass
	-10	19	0.0075		
	0	18	0.0071		
	10	-24	-0.0095		
	20	16	0.0063		
	30	12	0.0047		
	40	-4	-0.0016		
	50	1	0.0004		
	60	13	0.0051		
Reference Frequency: LTE Band 12 Middle channel=23095 channel=707.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	12	0.0170	2.5	Pass
	-10	14	0.0198		
	0	17	0.0240		
	10	-23	-0.0325		
	20	21	0.0297		
	30	7	0.0099		
	40	-1	-0.0014		
	50	3	0.0042		
	60	17	0.0240		
Reference Frequency: LTE Band 13 Middle channel=23230 channel=782MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	17	0.0217	Within the authorized bands	24
	-10	18	0.0230		
	0	18	0.0230		
	10	-27	-0.0345		
	20	21	0.0269		
	30	12	0.0153		
	40	-2	-0.0026		
	50	-2	-0.0026		
	60	17	0.0217		

Reference Frequency: LTE Band 41 Middle channel=40620 channel=2593MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	10	0.0039	Within the authorized bands	Pass
	-10	17	0.0066		
	0	14	0.0054		
	10	-27	-0.0104		
	20	16	0.0062		
	30	6	0.0023		
	40	3	0.0012		
	50	-2	-0.0008		
	60	13	0.0050		

4.11 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm Band II & Band VII should be within authorized band.
Test setup:	Temperature Chamber  Variable Power Supply Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	1. Manufacturer specified the battery operating end point voltage is 3.6VDC, max voltage is 4.2VDC. 2. If all frequencies stability are comply with the lower limit, then all results can be considered qualified

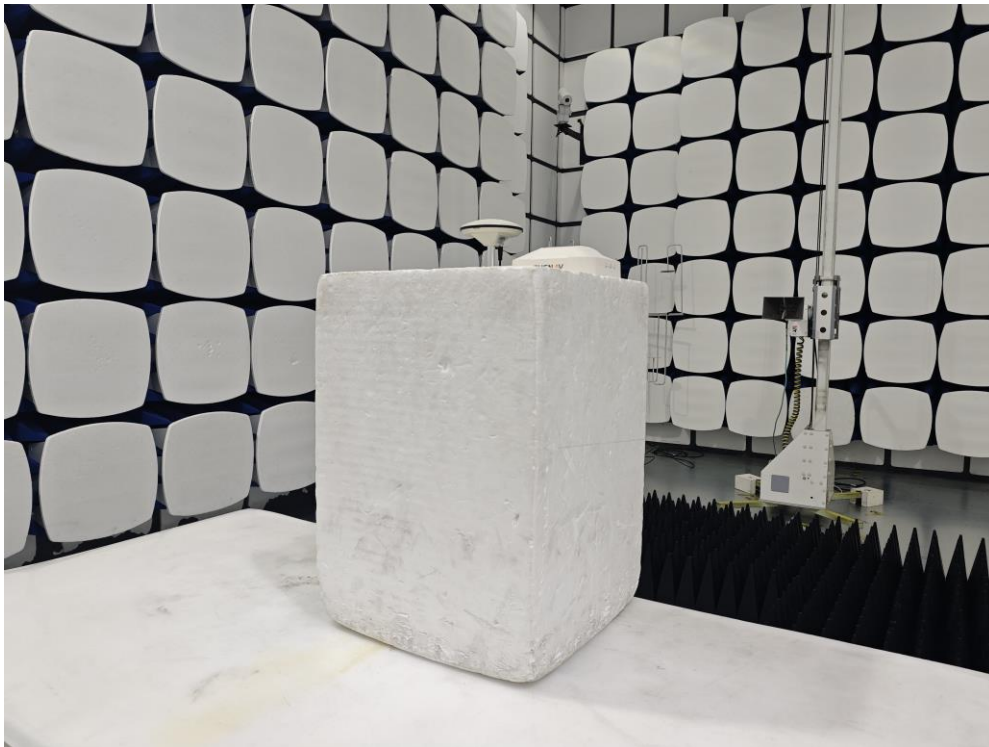
Measurement Data

Reference Frequency: LTE Band 2 Middle channel=18900 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	15	0.0080	within authorized band	Pass
	24	20	0.0106		
	36	19	0.0101		
Reference Frequency: LTE Band 4 Middle channel=20175 channel=1732.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	15	0.0087	2.5	Pass
	24	14	0.0081		
	36	18	0.0104		
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	13	0.0155	2.5	Pass
	24	19	0.0227		
	36	17	0.0203		
Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	11	0.0043	within authorized band	Pass
	24	14	0.0055		
	36	13	0.0051		

Reference Frequency: LTE Band 12 Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	12	0.0170	within authorized band	Pass
	24	17	0.0240		
	36	20	0.0283		
Reference Frequency: LTE Band 13 Middle channel=23230 channel=782MHz					
Temperature (°C)	Temperature (°C)	Temperature (°C)		Temperature (°C)	Temperature (°C)
		Hz	ppm		
25	9	14	0.0179	within authorized band	Pass
	24	21	0.0269		
	36	20	0.0256		
Reference Frequency: LTE Band 41 Middle channel=40620 channel=2593MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	16	0.0062	2.5	Pass
	24	15	0.0058		
	36	19	0.0073		

4.12 Test Setup Photo

Radiated Emission



-----END OF REPORT-----