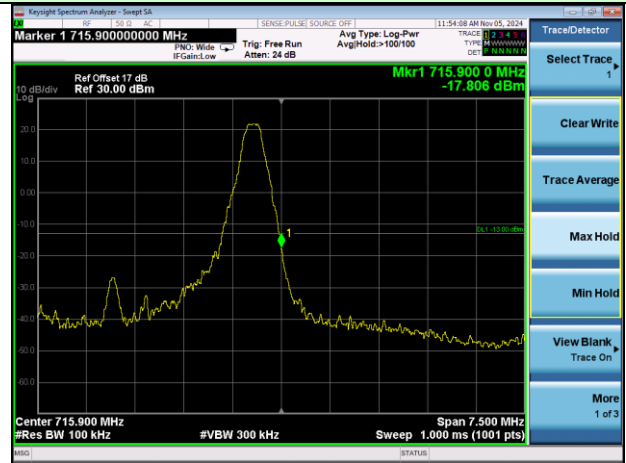


Test Mode: LTE Band 12 / 5MHz / 1 RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 12 / 5MHz / 25RB / 16-QAM



Lowest channel

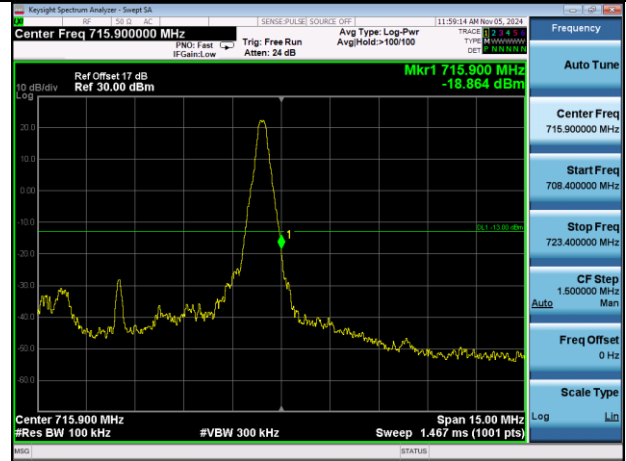


Highest channel

Test Mode: LTE Band 12 / 10MHz / 1RB / 16-QAM

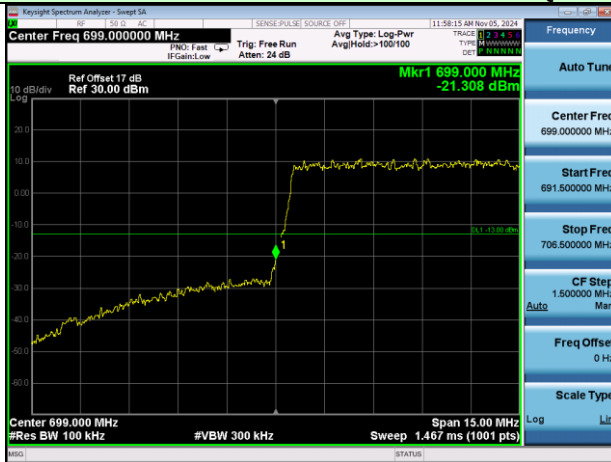


Lowest channel



Highest channel

Test Mode: LTE Band 12 / 10MHz / 50RB / 16-QAM

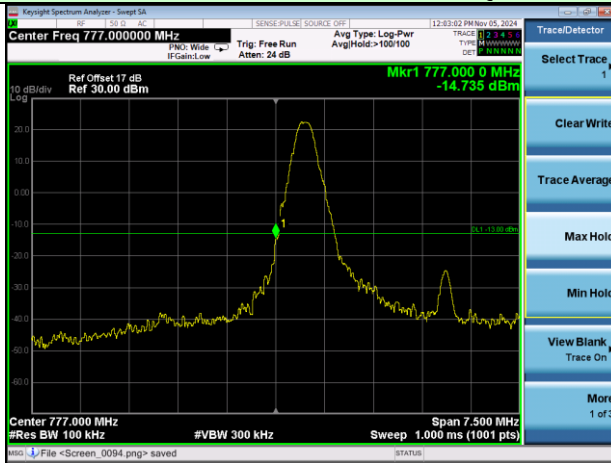


Lowest channel

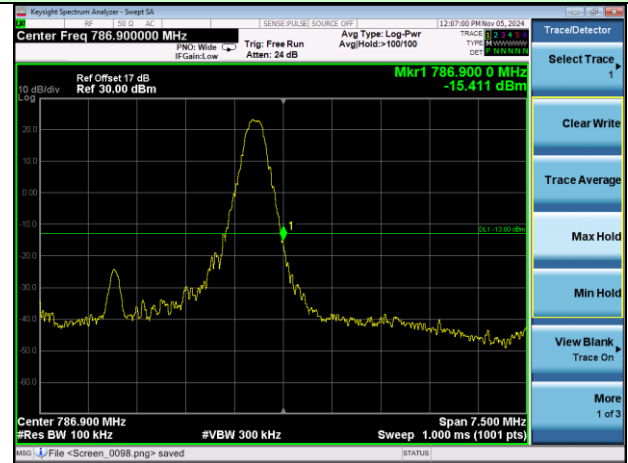


Highest channel

Test Mode: LTE Band 13 / 5MHz / 1RB / QPSK



Lowest channel



Highest channel

Test Mode: LTE Band 13 / 5MHz / 25RB / QPSK



Lowest channel



Highest channel

Test Mode: LTE Band 13 / 10MHz / 1RB / QPSK



Middle channel



Middle channel

Test Mode: LTE Band 13 / 10MHz / 50RB / QPSK

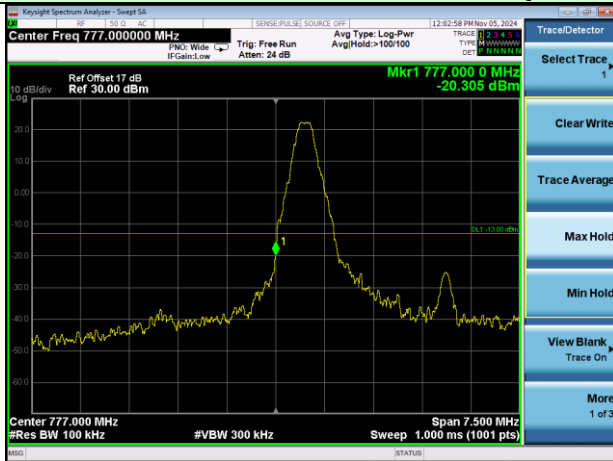


Middle channel

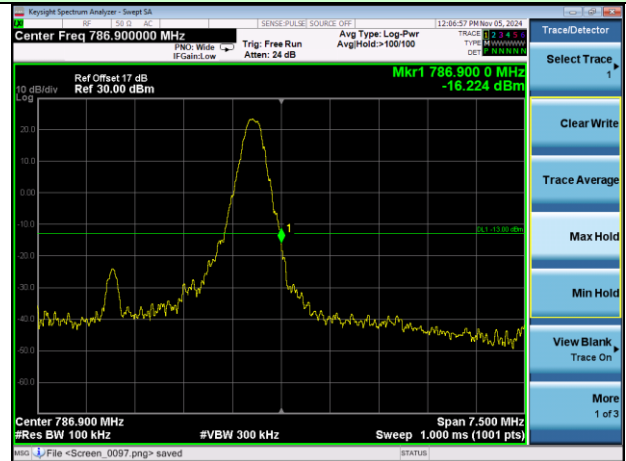


Middle channel

Test Mode: LTE Band 13 / 5MHz / 1RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 13 / 5MHz / 25RB / 16-QAM



Lowest channel

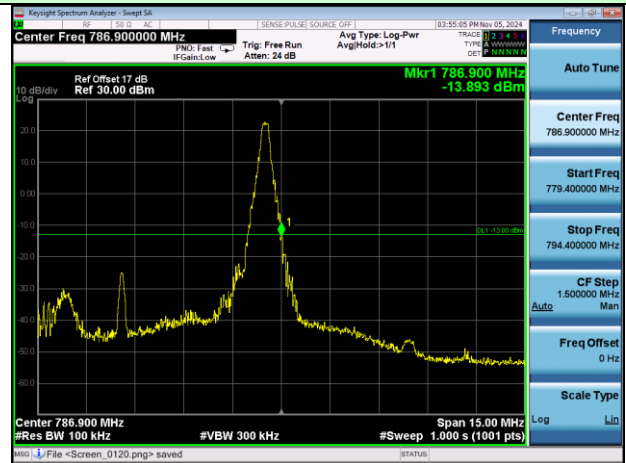


Highest channel

Test Mode: LTE Band 13 / 10MHz / 1RB / 16-QAM



Middle channel



Middle channel

Test Mode: LTE Band 13 / 10MHz / 50RB / 16-QAM

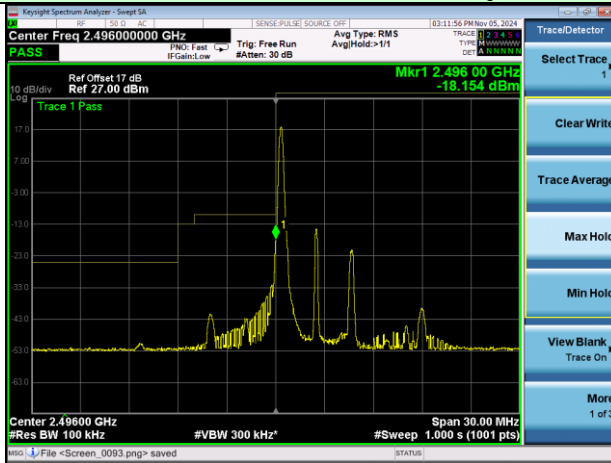


Middle channel



Middle channel

Test Mode: LTE Band 41 / 5MHz / 1RB / QPSK



Lowest channel



Highest channel

Test Mode: LTE Band 41 / 5MHz / 25RB / QPSK

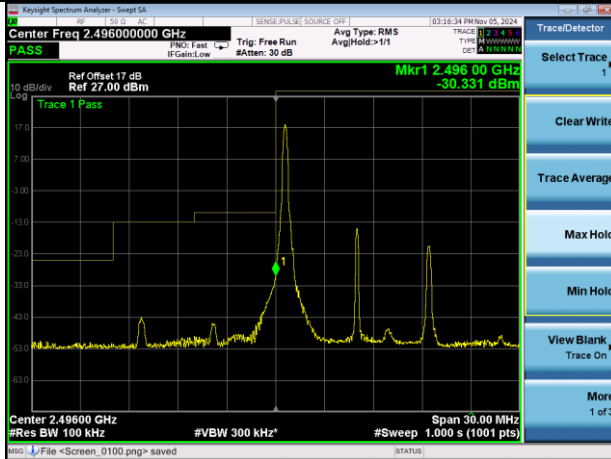


Lowest channel

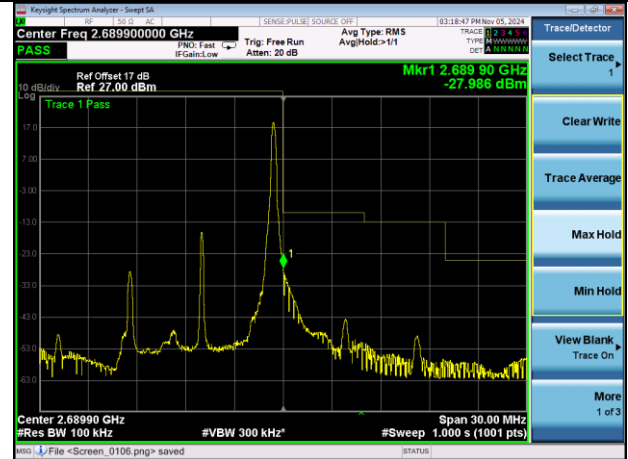


Highest channel

Test Mode: LTE Band 41 / 10MHz / 1RB / QPSK



Lowest channel

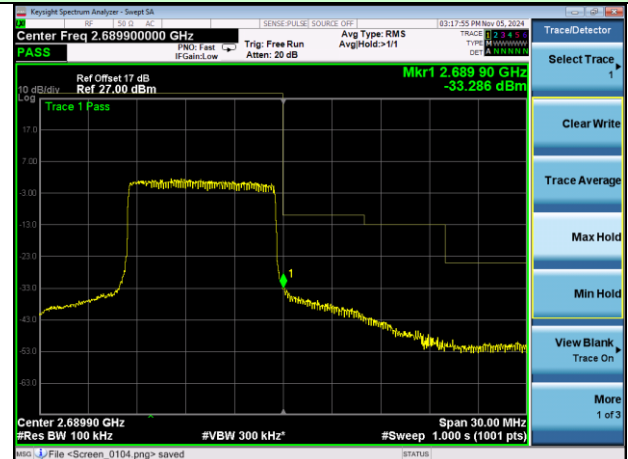


Highest channel

Test Mode: LTE Band 41 / 10MHz / 50RB / QPSK

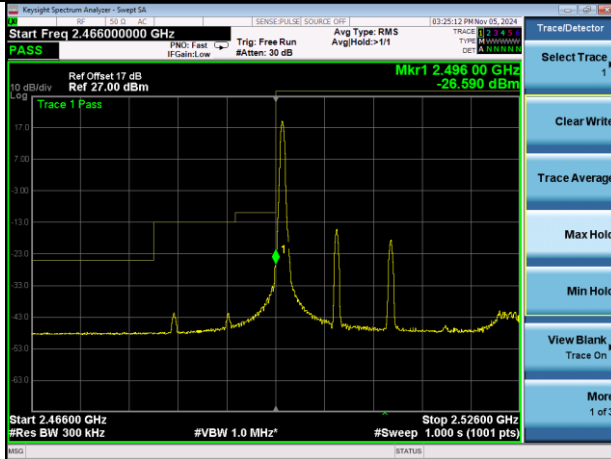


Lowest channel

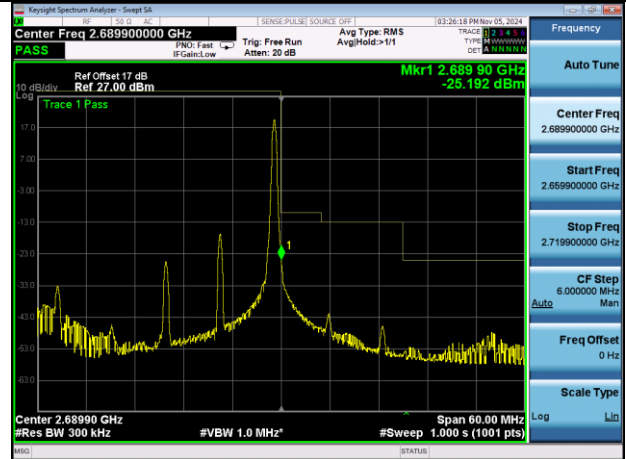


Highest channel

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

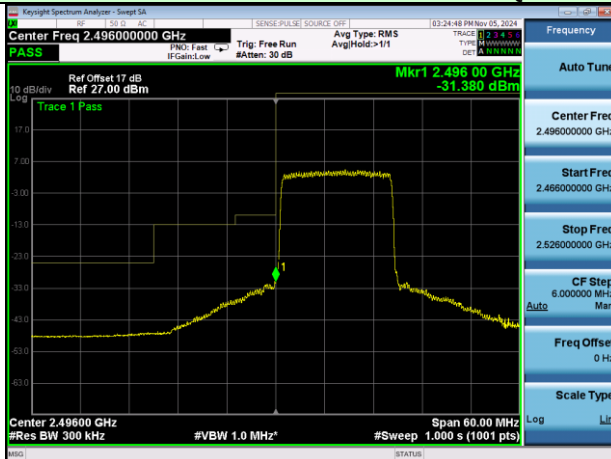


Lowest channel



Highest channel

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

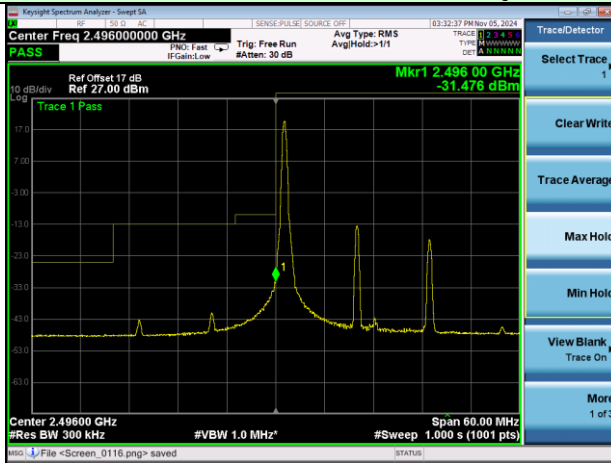


Lowest channel

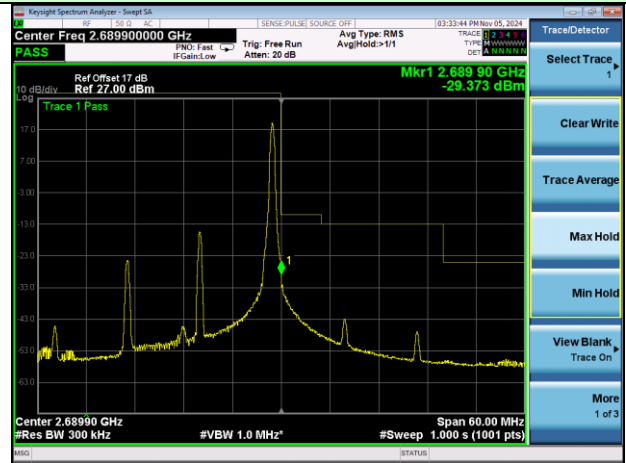


Highest channel

Test Mode: LTE Band 41 / 20MHz / 1RB / QPSK



Lowest channel



Highest channel

Test Mode: LTE Band 41 / 20MHz / 100RB / QPSK

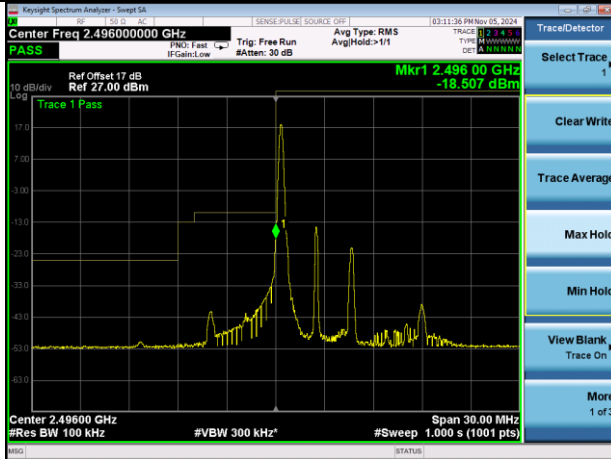


Lowest channel



Highest channel

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



Lowest channel

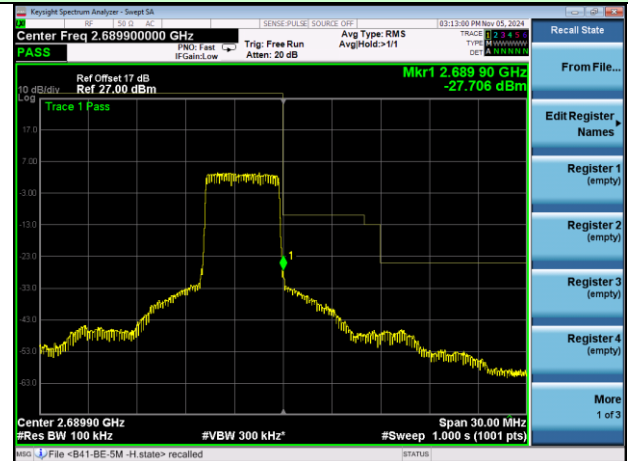


Highest channel

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

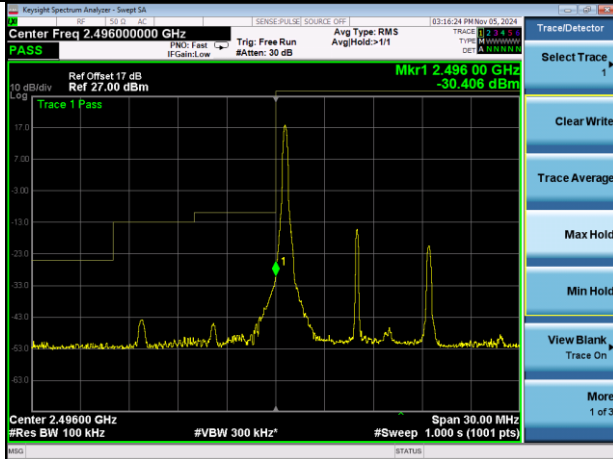


Lowest channel

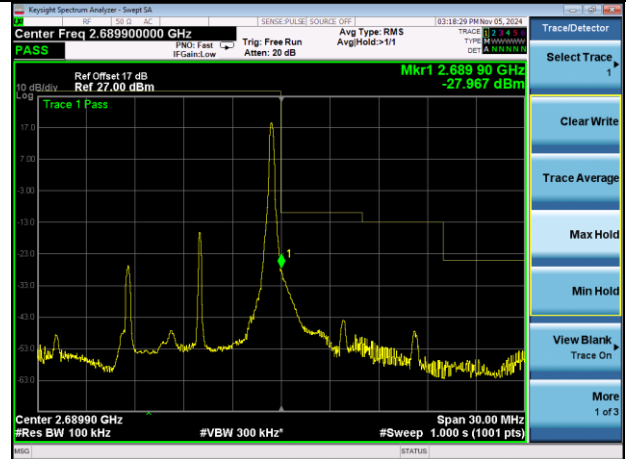


Highest channel

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



Lowest channel



Highest channel

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

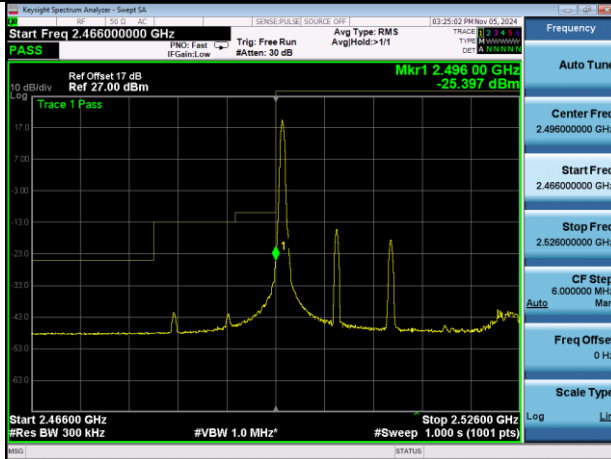


Lowest channel

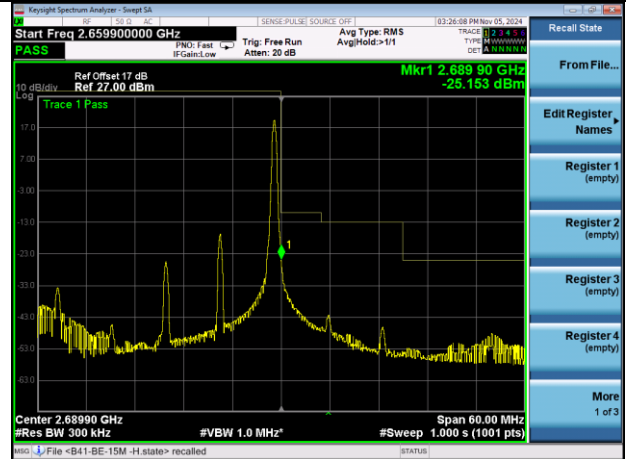


Highest channel

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

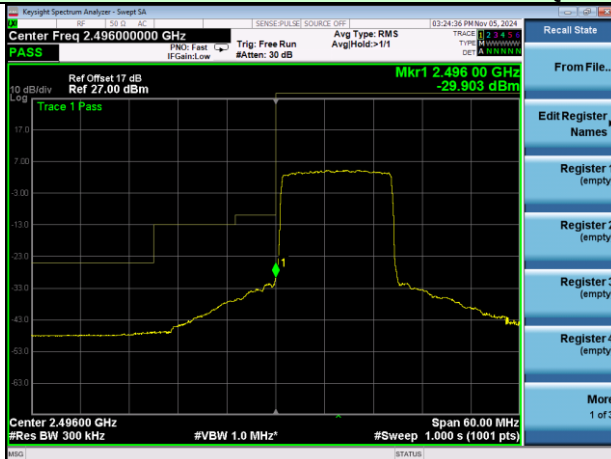


Lowest channel



Highest channel

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

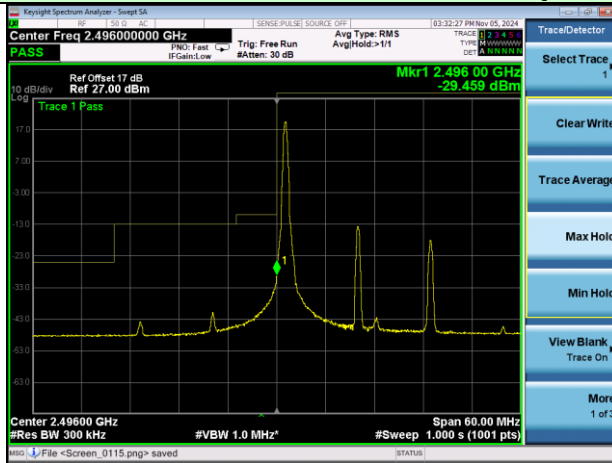


Lowest channel

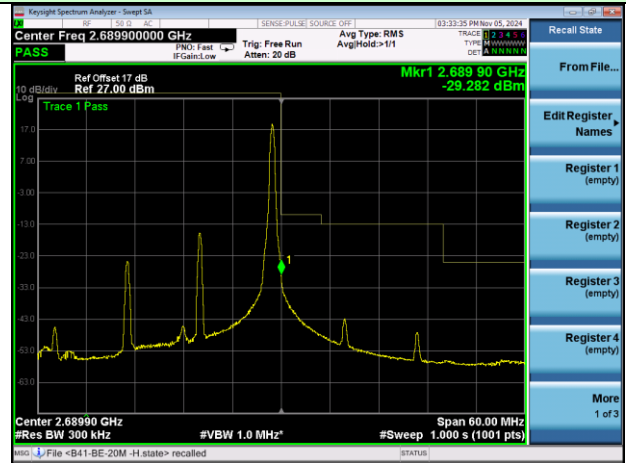


Highest channel

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



Lowest channel



Highest channel

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



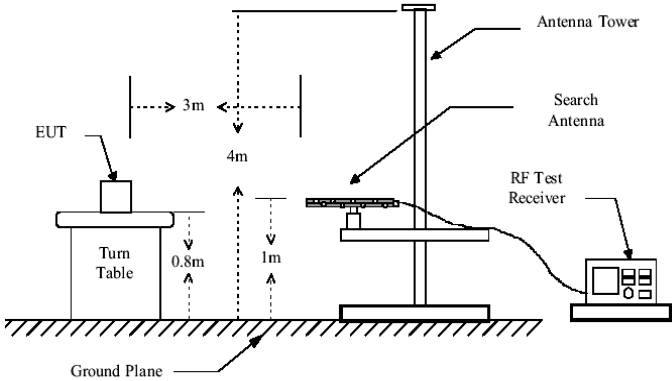
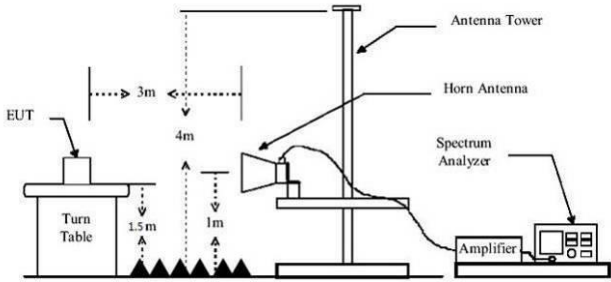
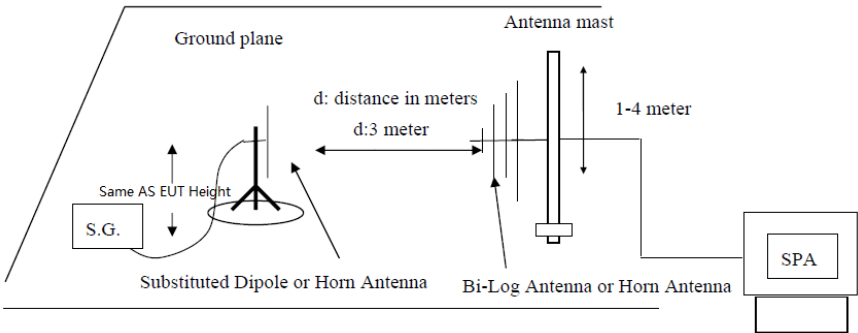
Lowest channel



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	23.41	33.00	Pass
					H	23.90		
				E1	V	23.37		
					H	23.42		
				E2	V	23.15		
					H	23.29		
	6	0	Middle	H	V	23.79	33.00	Pass
					H	23.60		
				E1	V	23.20		
					H	23.59		
				E2	V	23.18		
					H	23.85		
	6	0	Highest	H	V	23.09	33.00	Pass
					H	23.26		
				E1	V	23.25		
					H	23.10		
				E2	V	23.06		
					H	23.97		

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	23.13	33.00	Pass
					H	23.06		
				E1	V	23.17		
					H	23.81		
				E2	V	23.02		
					H	23.50		
	Middle	15	0	H	V	23.96	33.00	Pass
					H	23.48		
				E1	V	22.86		
					H	23.86		
				E2	V	23.53		
					H	23.04		
	Highest	15	0	H	V	23.62	33.00	Pass
					H	23.07		
				E1	V	23.37		
					H	23.64		
				E2	V	23.71		
					H	22.97		

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	23.09	33.00	Pass
					H	23.66		
				E1	V	23.46		
					H	23.77		
				E2	V	23.07		
					H	23.28		
	Middle	25	0	H	V	23.28	33.00	Pass
					H	23.58		
				E1	V	23.50		
					H	23.88		
				E2	V	22.95		
					H	23.51		
	Highest	25	0	H	V	23.87	33.00	Pass
					H	23.47		
				E1	V	23.92		
					H	23.51		
				E2	V	23.54		
					H	23.37		

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	23.25	33.00	Pass
					H	23.42		
				E1	V	23.22		
					H	24.13		
				E2	V	22.75		
					H	23.52		
	Middle	50	0	H	V	23.41	33.00	Pass
					H	23.85		
				E1	V	22.94		
					H	23.74		
				E2	V	23.37		
					H	23.73		
	Highest	50	0	H	V	23.99	33.00	Pass
					H	23.59		
				E1	V	23.42		
					H	23.12		
				E2	V	22.88		
					H	23.76		

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	23.44	33.00	Pass
					H	23.25		
				E1	V	23.60		
					H	23.74		
				E2	V	23.27		
					H	23.11		
	Middle	75	0	H	V	24.02	33.00	Pass
					H	23.74		
				E1	V	23.64		
					H	23.69		
				E2	V	23.10		
					H	23.06		
	Highest	75	0	H	V	23.52	33.00	Pass
					H	23.88		
				E1	V	23.33		
					H	23.66		
				E2	V	23.00		
					H	23.73		

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	23.10	33.00	Pass
					H	23.75		
				E1	V	23.22		
					H	23.87		
				E2	V	23.68		
					H	23.55		
	Middle	100	0	H	V	23.57	33.00	Pass
					H	23.99		
				E1	V	23.23		
					H	23.00		
				E2	V	23.05		
					H	23.02		
	Highest	100	0	H	V	23.25	33.00	Pass
					H	23.99		
				E1	V	23.38		
					H	23.24		
				E2	V	23.42		
					H	22.93		

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	23.94	33.00	Pass
					H	22.81		
				E1	V	23.89		
					H	23.52		
				E2	V	22.94		
					H	23.63		
	6	0	Middle	H	V	23.67	33.00	Pass
					H	23.49		
				E1	V	23.04		
					H	23.77		
				E2	V	23.34		
					H	22.90		
	6	0	Highest	H	V	23.88	33.00	Pass
					H	23.57		
				E1	V	23.84		
					H	23.00		
				E2	V	23.26		
					H	23.18		

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	23.85	33.00	Pass
					H	23.64		
				E1	V	23.96		
					H	23.41		
				E2	V	23.40		
					H	22.92		
	Middle	15	0	H	V	23.88	33.00	Pass
					H	23.60		
				E1	V	23.56		
					H	23.66		
				E2	V	23.60		
					H	23.21		
	Highest	15	0	H	V	23.89	33.00	Pass
					H	24.04		
				E1	V	23.55		
					H	23.31		
				E2	V	23.37		
					H	22.91		

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	23.34	33.00	Pass
					H	23.59		
				E1	V	24.10		
					H	23.28		
				E2	V	23.55		
					H	23.51		
	Middle	25	0	H	V	23.85	33.00	Pass
					H	23.88		
				E1	V	23.16		
					H	23.48		
				E2	V	23.19		
					H	22.88		
	Highest	25	0	H	V	23.78	33.00	Pass
					H	23.65		
				E1	V	23.50		
					H	22.88		
				E2	V	23.05		
					H	23.36		

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	23.98	33.00	Pass
					H	23.04		
				E1	V	23.45		
					H	24.00		
				E2	V	23.27		
					H	22.92		
	Middle	50	0	H	V	23.44	33.00	Pass
					H	23.66		
				E1	V	23.49		
					H	23.04		
				E2	V	23.39		
					H	22.84		
	Highest	50	0	H	V	24.02	33.00	Pass
					H	23.76		
				E1	V	23.23		
					H	23.48		
				E2	V	22.94		
					H	23.12		

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	23.34	33.00	Pass
					H	23.07		
				E1	V	23.27		
					H	23.99		
				E2	V	23.25		
					H	23.18		
	Middle	75	0	H	V	23.38	33.00	Pass
					H	23.36		
				E1	V	23.52		
					H	23.30		
				E2	V	23.28		
					H	23.20		
	Highest	75	0	H	V	23.93	33.00	Pass
					H	23.32		
				E1	V	23.51		
					H	23.54		
				E2	V	22.88		
					H	23.36		

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	23.24	33.00	Pass
					H	23.01		
				E1	V	23.35		
					H	23.54		
				E2	V	23.00		
					H	23.07		
	Middle	100	0	H	V	23.76	33.00	Pass
					H	23.06		
				E1	V	22.94		
					H	23.24		
				E2	V	23.20		
					H	23.10		
	Highest	100	0	H	V	23.69	33.00	Pass
					H	23.98		
				E1	V	23.72		
					H	22.91		
				E2	V	22.86		
					H	23.43		

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	23.21	30.00	Pass
					H	23.17		
				E1	V	23.20		
					H	23.33		
				E2	V	22.87		
					H	23.08		
	Middle	6	0	H	V	23.39	30.00	Pass
					H	23.91		
				E1	V	23.28		
					H	23.42		
				E2	V	23.47		
					H	23.54		
	Highest	6	0	H	V	23.49	30.00	Pass
					H	23.40		
				E1	V	23.54		
					H	23.07		
				E2	V	23.66		
					H	23.74		

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	23.65	30.00	Pass
					H	23.32		
				E1	V	23.31		
					H	23.49		
				E2	V	23.68		
					H	22.81		
	Middle	15	0	H	V	23.95	30.00	Pass
					H	23.09		
				E1	V	23.74		
					H	23.87		
				E2	V	23.23		
					H	22.82		
	Highest	15	0	H	V	24.05	30.00	Pass
					H	23.10		
				E1	V	24.04		
					H	23.37		
				E2	V	23.65		
					H	22.93		

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	23.64	30.00	Pass
					H	23.72		
				E1	V	24.07		
					H	23.64		
				E2	V	23.50		
					H	23.44		
	Middle	25	0	H	V	23.30	30.00	Pass
					H	23.23		
				E1	V	22.82		
					H	23.81		
				E2	V	23.75		
					H	23.48		
	Highest	25	0	H	V	24.11	30.00	Pass
					H	23.95		
				E1	V	23.15		
					H	22.96		
				E2	V	23.79		
					H	22.93		

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	23.27	30.00	Pass
					H	23.19		
				E1	V	24.15		
					H	23.45		
				E2	V	23.56		
					H	22.92		
	Middle	50	0	H	V	23.85	30.00	Pass
					H	23.51		
				E1	V	23.59		
					H	23.36		
				E2	V	23.06		
					H	23.60		
	Highest	50	0	H	V	23.42	30.00	Pass
					H	23.99		
				E1	V	23.78		
					H	23.46		
				E2	V	22.99		
					H	23.67		

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	23.51	30.00	Pass
					H	22.85		
				E1	V	24.00		
					H	23.80		
				E2	V	22.88		
					H	23.54		
	Middle	75	0	H	V	23.28	30.00	Pass
					H	23.48		
				E1	V	23.06		
					H	23.09		
				E2	V	23.35		
					H	23.14		
	Highest	75	0	H	V	24.10	30.00	Pass
					H	23.07		
				E1	V	23.54		
					H	23.16		
				E2	V	22.89		
					H	23.00		

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	23.94	30.00	Pass
					H	23.15		
				E1	V	23.98		
					H	23.72		
				E2	V	22.83		
					H	23.47		
	Middle	100	0	H	V	23.91	30.00	Pass
					H	23.35		
				E1	V	23.24		
					H	23.33		
				E2	V	23.20		
					H	23.58		
	Highest	100	0	H	V	23.61	30.00	Pass
					H	23.15		
				E1	V	23.12		
					H	23.36		
				E2	V	22.88		
					H	23.59		

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	23.22	30.00	Pass
					H	23.77		
				E1	V	23.39		
					H	23.55		
				E2	V	23.56		
					H	23.42		
	Middle	6	0	H	V	23.22	30.00	Pass
					H	23.47		
				E1	V	23.70		
					H	23.59		
				E2	V	23.93		
					H	22.91		
	Highest	6	0	H	V	23.09	30.00	Pass
					H	23.81		
				E1	V	22.64		
					H	23.47		
				E2	V	23.23		
					H	23.52		

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	23.67	30.00	Pass
					H	24.02		
				E1	V	23.49		
					H	23.09		
				E2	V	23.70		
					H	23.69		
	Middle	15	0	H	V	22.87	30.00	Pass
					H	23.65		
				E1	V	23.16		
					H	23.55		
				E2	V	24.00		
					H	23.93		
	Highest	15	0	H	V	23.41	30.00	Pass
					H	23.63		
				E1	V	23.18		
					H	23.08		
				E2	V	23.12		
					H	23.54		

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	24.11	30.00	Pass
					H	23.72		
				E1	V	23.00		
					H	23.10		
				E2	V	23.14		
					H	23.69		
	Middle	25	0	H	V	23.62	30.00	Pass
					H	23.23		
				E1	V	23.62		
					H	23.26		
				E2	V	23.79		
					H	23.07		
	Highest	25	0	H	V	23.78	30.00	Pass
					H	23.49		
				E1	V	22.94		
					H	23.81		
				E2	V	23.73		
					H	23.51		

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	23.27	30.00	Pass
					H	23.96		
				E1	V	23.35		
					H	23.71		
				E2	V	23.72		
					H	23.19		
	Middle	50	0	H	V	23.08	30.00	Pass
					H	23.37		
				E1	V	23.08		
					H	23.16		
				E2	V	23.97		
					H	23.47		
	Highest	50	0	H	V	23.59	30.00	Pass
					H	22.89		
				E1	V	23.03		
					H	23.25		
				E2	V	23.24		
					H	22.66		

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	24.04	30.00	Pass
					H	23.50		
				E1	V	23.32		
					H	23.20		
				E2	V	24.04		
					H	23.93		
	Middle	75	0	H	V	22.80	30.00	Pass
					H	23.77		
				E1	V	23.90		
					H	23.56		
				E2	V	23.21		
					H	23.74		
	Highest	75	0	H	V	23.54	30.00	Pass
					H	23.79		
				E1	V	23.09		
					H	23.25		
				E2	V	23.45		
					H	22.98		

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	23.23	30.00	Pass
					H	23.19		
				E1	V	23.01		
					H	23.42		
				E2	V	23.55		
					H	23.28		
	Middle	100	0	H	V	23.21	30.00	Pass
					H	23.84		
				E1	V	23.30		
					H	23.74		
				E2	V	23.39		
					H	23.57		
	Highest	100	0	H	V	23.50	30.00	Pass
					H	23.10		
				E1	V	23.15		
					H	23.41		
				E2	V	23.61		
					H	23.33		

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	23.86	38.45	Pass
					H	23.34		
				E1	V	22.97		
					H	23.86		
				E2	V	23.13		
					H	23.17		
	Middle	6	0	H	V	23.07	38.45	Pass
					H	23.27		
				E1	V	23.10		
					H	24.01		
				E2	V	23.74		
					H	23.77		
	Highest	6	0	H	V	22.84	38.45	Pass
					H	23.61		
				E1	V	22.85		
					H	23.42		
				E2	V	22.96		
					H	23.15		

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	23.17	38.45	Pass
					H	23.20		
				E1	V	22.85		
					H	23.33		
				E2	V	23.83		
					H	23.49		
	Middle	15	0	H	V	23.45	38.45	Pass
					H	23.61		
				E1	V	22.98		
					H	23.44		
				E2	V	23.36		
					H	23.63		
	Highest	15	0	H	V	22.81	38.45	Pass
					H	23.57		
				E1	V	23.32		
					H	23.41		
				E2	V	23.89		
					H	22.68		