UAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

High Frequency Substitution Measurement

UL Fremont Radiated Chamber E

Apple Company: Project #: 14U17673 6/17/2014 Test Engineer: T Wang EUT Only Configuration:

LTE Band 26 16QAM 3MHz BW Mode:

Test Equipment:

Receiving: Sunol T408, and Chamber E Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin	Notes
GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch										
820.30	9.98	V	0.62	0.0	9.36	11.51	38.45	40.60	-29.1	
820.30	15.77	Н	0.62	0.0	15.15	17.30	38.45	40.60	-23.3	
Mid Ch										
821.30	8.98	V	0.62	0.0	8.36	10.51	38.45	40.60	-30.1	
821.30	16.04	Н	0.62	0.0	15.42	17.57	38.45	40.60	-23.0	
High Ch										
822.30	9.12	V	0.62	0.0	8.50	10.65	38.45	40.60	-30.0	
822.30	16.17	Н	0.62	0.0	15.55	17.70	38.45	40.60	-22.9	

Rev. 10.24.13

UAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber E

Company: Apple Project #: 14U17673 6/17/2014 Date:

Test Engineer: T Wang Configuration: **EUT Only**

Mode: LTE Band 26 QPSK 5MHz BW

Test Equipment:

Receiving: Sunol T408, and Chamber E Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin	Notes
GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
Mid Ch										
821.30	9.98	V	0.62	0.0	9.36	11.51	38.45	40.60	-29.1	
821.30	16.74	Н	0.62	0.0	16.12	18.27	38.45	40.60	-22.3	

Rev. 10.24.13

FORM NO: CCSUP4701J

REPORT NO: 14U17673-E19D **DATE: AUGUST 27, 2014** FCC ID: BCG-E2816A MODEL: A1549

UAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

High Frequency Substitution Measurement

UL Fremont Radiated Chamber E

Apple Company: 14U17673 Project #: Date: 6/17/2014 Test Engineer: T Wang Configuration: **EUT Only**

Mode: LTE Band 26 16QAM 5MHz BW

Test Equipment:

Receiving: Sunol T408, and Chamber E Cable Substitution: Dipole S/N: 00022117, and 8ft SMA Cable

Г	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin	Notes
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
П	Mid Ch										
	821.30	8.88	V	0.62	0.0	8.26	10.41	38.45	40.60	-30.2	
	821.30	15.64	Н	0.62	0.0	15.02	17.17	38.45	40.60	-23.4	

Rev. 10.24.13

FORM NO: CCSUP4701J

REPORT NO: 14U17673-E19D **DATE: AUGUST 27, 2014** FCC ID: BCG-E2816A MODEL: A1549

UAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber E

14U17673

Project #: 6/20/2014 Date: Test Engineer: Macie Configuration: EUT Only

Mode: LTE Band 26 QPSK 10MHz BW

Test Equipment:

Receiving: Sunol T408, and Chamber E Cable

Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin EIRP	Notes
GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
Mid Ch										
819.00	10.80	V	0.62	0.0	10.18	12.33	38.45	40.60	-28.3	
819.00	16.64	Н	0.62	0.0	16.02	18.17	38.45	40.60	-22.4	
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Rev. 10.24.13

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UAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

High Frequency Substitution Measurement UL Fremont Radiated Chamber E

Project #: 14U17673 Date: 6/20/2014

Configuration: EUT Only

Macie LTE Band 26 16QAM 10MHz BW

Test Engineer:

Test Equipment:
Receiving: Sunol T408, and Chamber E Cable

Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin	Notes
GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch										
819.00	9.49	V	0.62	0.0	8.87	11.02	38.45	40.60	-29.6	
819.00	15.74	Н	0.62	0.0	15.12	17.27	38.45	40.60	-23.3	

Rev. 10.24.13

FORM NO: CCSUP4701J FAX: (510) 661-0888

9.2. PEAK-TO-AVERAGE RATIO

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 Db.

9.2.1. LTE BAND 2

	Channel Band-width			Couducted	Couducted Power (dBm)	
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	Average Ratio (PAR)
QPSK	1.4	RB1-0	1880	28.03	23.16	4.87
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
Mode 16QAM	Band-width 1.4	Ch. No. RB1-0	f (MHz) 1880	*Peak 28.07	Average 22.24	Average Ratio 5.83

	Channel Band-width			Couducted Power (dBm)		Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	3.0	RB1-0	1880	28.01	23.26	4.75		
	•							
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	3.0	RB1-0	1880	28	22.27	5.73		
*Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted Power (dBm)		Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	5.0	RB1-0	1880	27.99	23.16	4.83		
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	5.0	RB1-0	1880	26.55	22.02	4.53		
*Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted Power (dBm)		Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	10.0	RB1-0	1880	27.87	23.22	4.65		
						•		
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	10.0	RB1-0	1880	27.84	22.27	5.57		
*Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted Power (dBm)		Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	15.0	RB1-0	1880	27.86	23.22	4.64
	Channel			Couducted	Power (dBm)	Peak-to-
Mada						
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	15.0	Ch. No. RB1-0	f (MHz) 1880	*Peak 27.77	Average 22.27	Average Ratio 5.50

	Channel Band-width			Couducted Power (dBm)		Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	20.0	RB1-0	1880	27.69	22.98	4.71		
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	20.0	RB1-0	1880	26.21	21.94	4.27		
*Danis Daniina Avanana Daniina - Dan								

*Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.2. LTE BAND 4

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	1.4	RB1-0	1732.5	28.09	23.23	4.86		
				•				
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	1.4	RB1-0	1732.5	28.29	22.38	5.91		
*Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio			
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)			
QPSK	3.0	RB1-0	1732.5	28.36	23.38	4.98			
	•								
	Channel			Couducted	Power (dBm)	Peak-to-			
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio			
16QAM	3.0	RB1-0	1732.5	28	22.39	5.61			
	Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	5.0	RB1-0	1732.5	28.08	23.26	4.82
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Channel Band-width	Ch. No.	f (MHz)	Couducted *Peak	Power (dBm) Average	Peak-to- Average Ratio
Mode 16QAM		Ch. No. RB1-0	f (MHz) 1732.5		, ,	

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	10.0	RB1-0	1732.5	28.08	23.31	4.77
						•
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	10.0	RB1-0	1732.5	27.9	22.37	5.53
*Peak Reading	g = Average Rea	ading + Peak-	to-Average F	Ratio		

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	15.0	RB1-0	1732.5	28.15	23.39	4.76
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
Mode 16QAM	Band-width 15.0	Ch. No. RB1-0	f (MHz) 1732.5	*Peak 27.95	Average 22.38	Average Ratio 5.57

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	20.0	RB1-0	1732.5	28.02	23.17	4.85
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	20.0	RB1-0	1732.5	27.76	22.22	5.54
*Peak Reading	g = Average Re	ading + Peak-	to-Average F	Ratio		

9.2.3. LTE BAND 5

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	1.4	RB1-0	836.5	27.9	23.15	4.75
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	1.4	RB1-0	836.5	28.09	22.32	5.77
		•				

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	3.0	RB1-0	836.5	28.12	23.26	4.86
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	3.0	RB1-0	836.5	27.95	22.31	5.64
	,					•

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	5.0	RB1-0	836.5	28.02	23.19	4.83
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	5.0	RB1-0	836.5	27.91	22.13	5.78
*Peak Reading	n = Average Re	ading + Peak-	to-Average F	Ratio		

	Channel Band-width				Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	10.0	RB1-0	836.5	27.69	23.21	4.48
						,
	Channel			Caudustad	Davis (dDss)	Dooleto
	Charine			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
Mode 16QAM		Ch. No. RB1-0	f (MHz) 836.5		` '	

9.2.4. LTE BAND 13

	Channel Band-width			Couducted I	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	5.0	RB1-0	782	28.27	23.25	5.02
	Channel			Couducted I	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	5.0	RB1-0	782	28.08	22.15	5.93

	Channel Band-width			Couducted I	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	10.0	RB1-0	782	28.18	23.34	4.84
	Channel			Couducted I	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	10.0	RB1-0	782	28.21	22.43	5.78
TOQAM						

9.2.5. LTE BAND 17

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	5.0	RB1-0	710.0	28.3	23.35	4.95
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
Mode 16QAM	Band-width 5.0	Ch. No. RB1-0	f (MHz) 710.0	*Peak 28.2	Average 22.29	Average Ratio 5.91

Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
10.0	RB1-0	710.0	28.06	23.47	4.59
Channel			Couducted	Power (dBm)	Peak-to-
Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
10.0	RB1-0	710.0	27.91	22.55	5.37
	10.0 Channel Band-width	(MHZ) Modulation 10.0 RB1-0 Channel Band-width Ch. No.	(MHZ) Modulation f (MHz) 10.0 RB1-0 710.0 Channel Band-width Ch. No. f (MHz)	Channel Band-width Ch. No. f (MHz) *Peak *Peak *Peak *Peak *Peak	Channel Band-width Ch. No. f (MHz) *Peak Average **Peak Average **Peak Average **Couducted Power (dBm) **Peak Average

^{*}Peak Reading = Average Reading + Peak-to-Average Ratio

9.2.6. LTE BAND 25

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio			
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)			
QPSK	1.4	RB1-0	1880	26.77	23.11	3.66			
				•					
	Channel			Couducted	Power (dBm)	Peak-to-			
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio			
16QAM	1.4	RB1-0	1880	28.17	22.29	5.88			
*Peak Reading	*Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio			
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)			
QPSK	3.0	RB1-0	1880	28.11	23.22	4.89			
	•								
	Channel			Couducted	Power (dBm)	Peak-to-			
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio			
16QAM	3.0	RB1-0	1880	26.69	22.32	4.37			
*Peak Reading	Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	5.0	RB1-0	1880	26.65	23.13	3.52
	<u> </u>					
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Channel Band-width	Ch. No.	f (MHz)	Couducted *Peak	Power (dBm) Average	Peak-to- Average Ratio
Mode 16QAM		Ch. No. RB1-0	f (MHz) 1880			

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	10.0	RB1-0	1880	26.62	23.16	3.46		
	•					,		
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	10.0	RB1-0	1880	26.62	22.31	4.31		
*Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	15.0	RB1-0	1880	27.84	23.05	4.79
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	D 141	Ch Na	f (MHz)	*Dools	Λ	1 A
IVIOGE	Band-width	Ch. No.	i (ivi⊓∠ <i>)</i>	*Peak	Average	Average Ratio
16QAM	15.0	RB1-0	1880	27.83	22.21	5.62

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	20.0	RB1-0	1880	27.75	22.89	4.86
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio
16QAM	20.0	RB1-0	1880	26.34	21.99	4.35
±0 1 0 1:						•

^{*}Peak Reading = Average Reading + Peak-to-Average Ratio

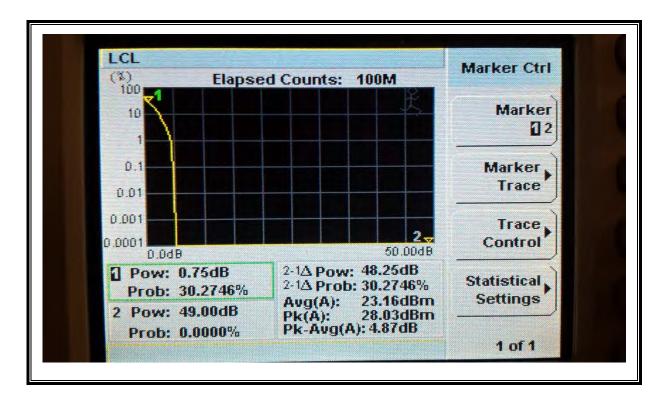
9.2.7. LTE BAND 26

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)
QPSK	3.0	RB1-0	821.3	28.13	23.32	4.81
	<u> </u>					
	Channel			Couducted	Power (dBm)	Peak-to-
Mode	Channel Band-width	Ch. No.	f (MHz)	*Peak	Power (dBm) Average	Peak-to- Average Ratio
Mode 16QAM		Ch. No. RB1-0	f (MHz) 821.3		, ,	

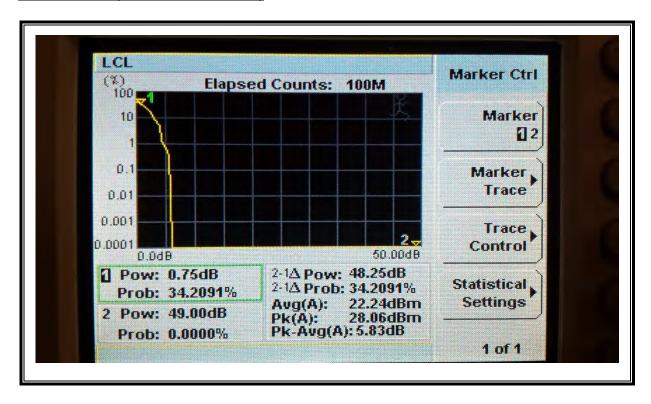
	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	5.0	RB1-0	821.3	27.86	23.32	4.54		
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	5.0	RB1-0	821.3	27.88	22.23	5.65		
Peak Reading = Average Reading + Peak-to-Average Ratio								

	Channel Band-width			Couducted	Power (dBm)	Peak-to- Average Ratio		
Mode	(MHZ)	Modulation	f (MHz)	*Peak	Average	(PAR)		
QPSK	10.0	RB1-0	819.0	27.64	23.01	4.63		
	Channel			Couducted	Power (dBm)	Peak-to-		
Mode	Band-width	Ch. No.	f (MHz)	*Peak	Average	Average Ratio		
16QAM	10.0	RB1-0	819.0	27.46	22.09	5.37		
*Peak Reading = Average Reading + Peak-to-Average Ratio								

QPSK Band 2 (1.4 MHz BAND WIDTH)

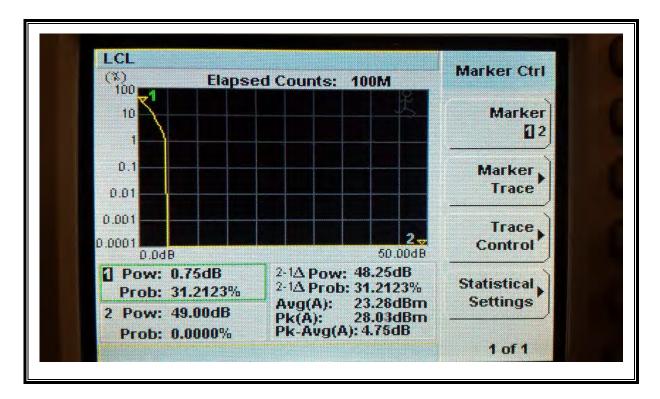


16QAM Band 2 (1.4 MHz BAND WIDTH)

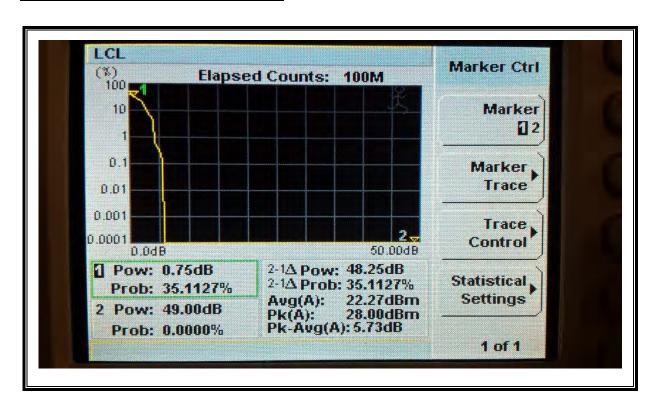


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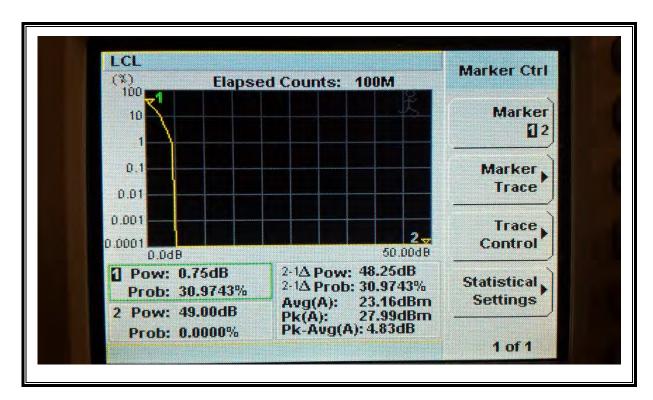
LTE QPSK Band 2 (3 MHz BAND WIDTH)



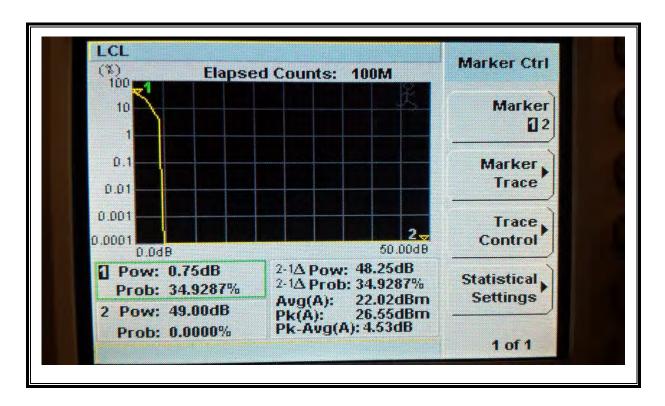
LTE 16QAM Band 2 (3 MHz BAND WIDTH)



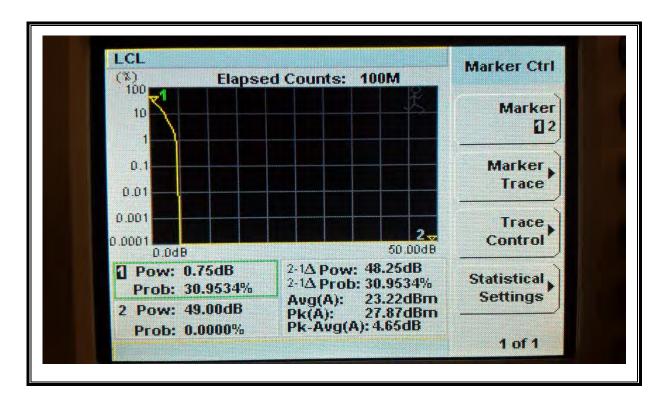
LTE QPSK Band 2 (5 MHz BAND WIDTH)



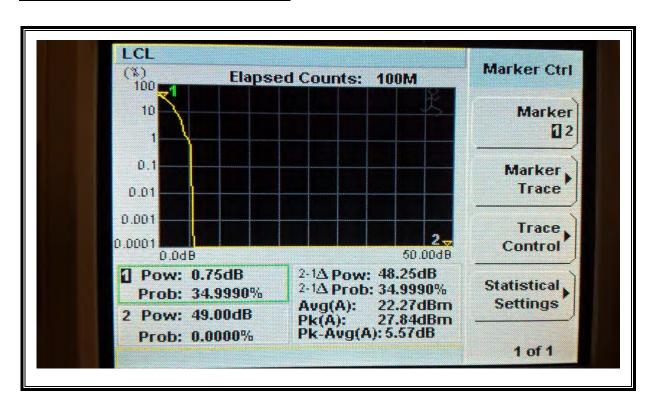
LTE 16QAM Band 2 (5 MHz BAND WIDTH)



LTE QPSK Band 2 (10 MHz BAND WIDTH)

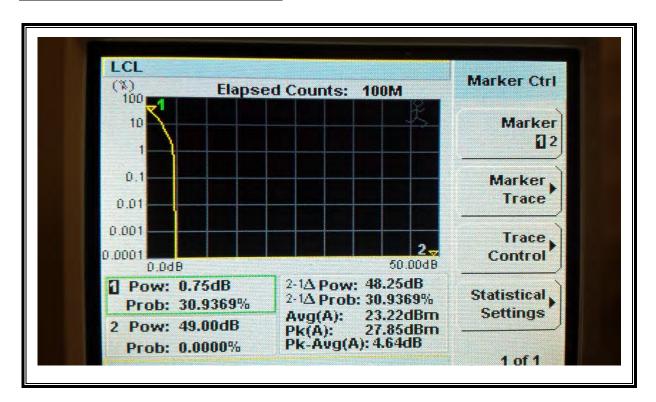


LTE 16QAM Band 2 (10 MHz BAND WIDTH)

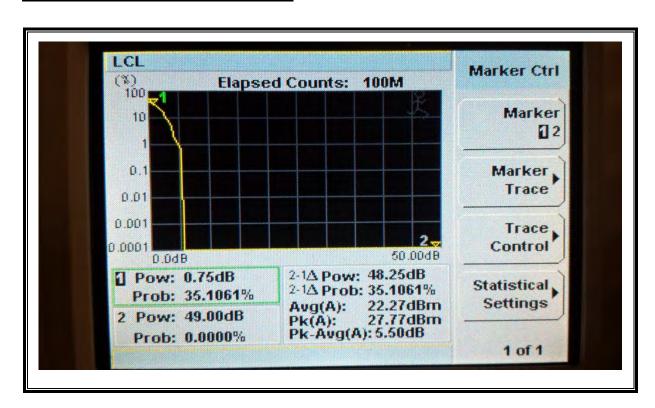


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LTE QPSK Band 2 (15 MHz BAND WIDTH)

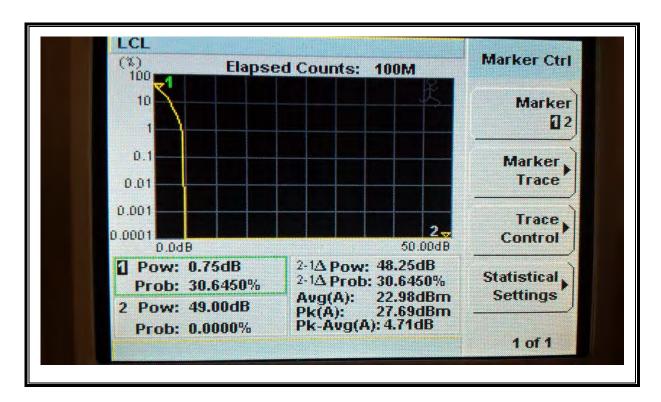


LTE 16QAM Band 2 (15 MHz BAND WIDTH)

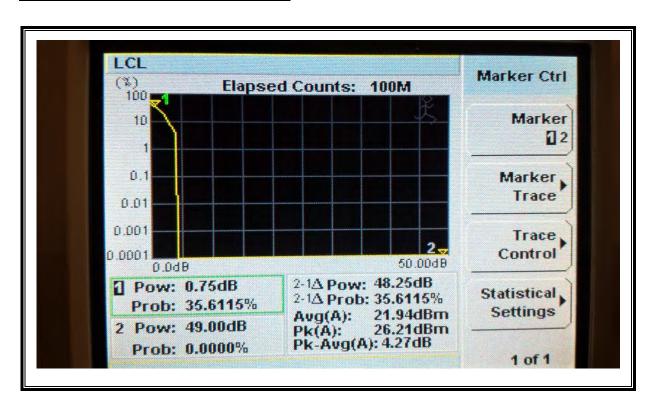


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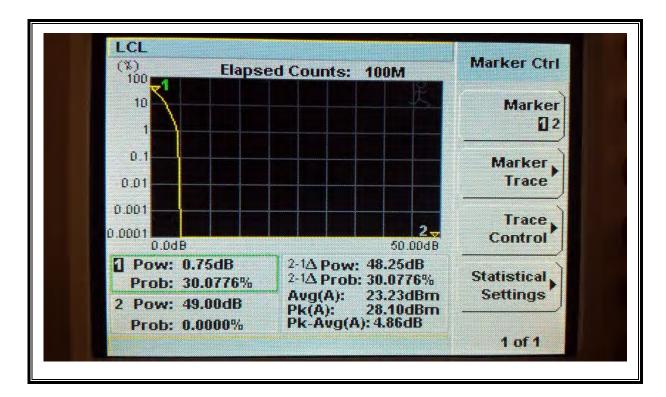
LTE QPSK Band 2 (20 MHz BAND WIDTH)



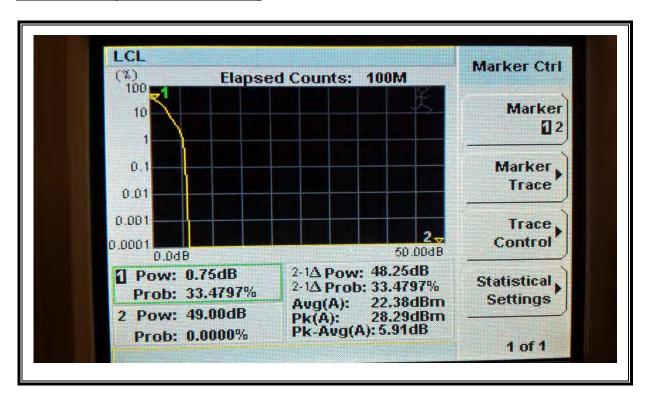
LTE 16QAM Band 2 (20 MHz BAND WIDTH)



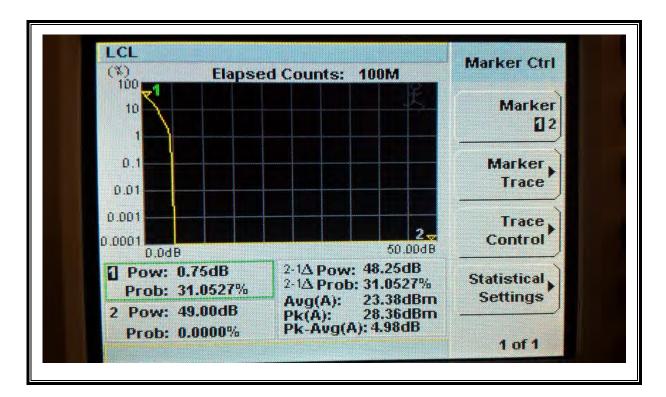
QPSK Band 4 (1.4 MHz BAND WIDTH)



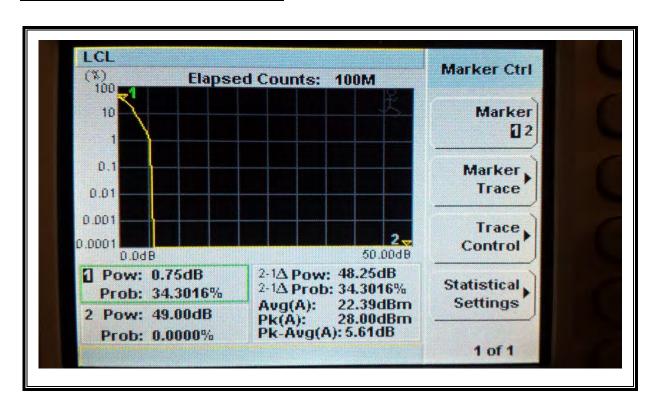
16QAM Band 4 (1.4 MHz BAND WIDTH)



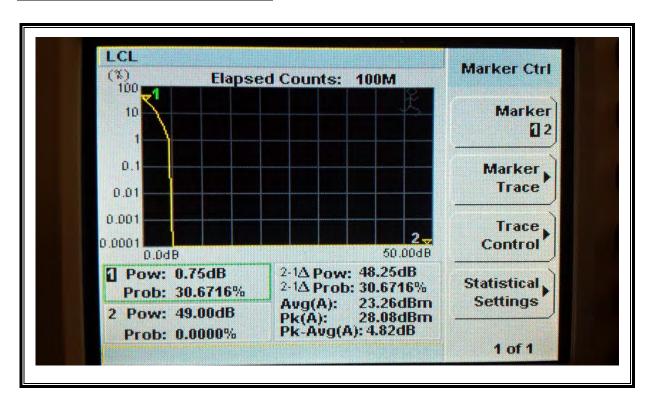
LTE QPSK Band 4 (3 MHz BAND WIDTH)



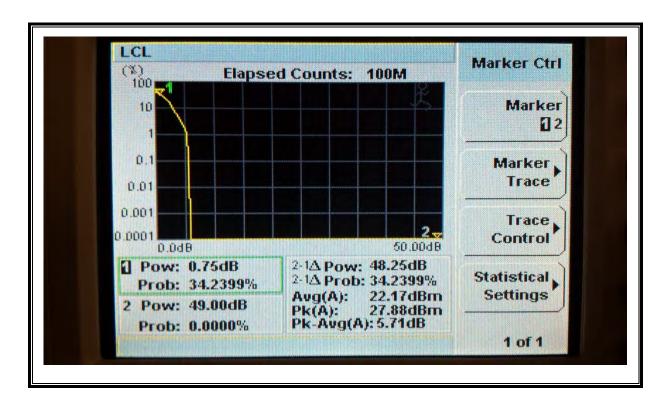
LTE 16QAM Band 4 (3 MHz BAND WIDTH)



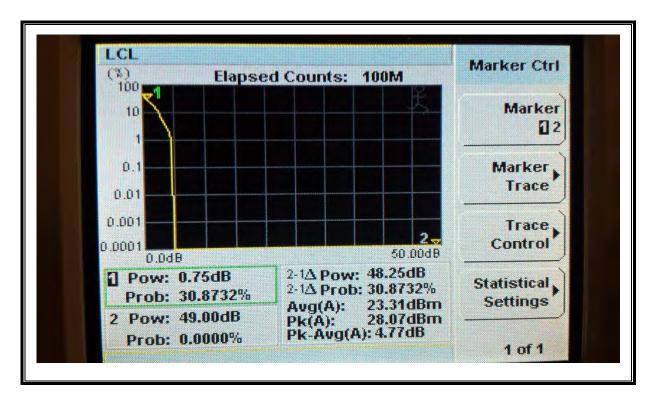
LTE QPSK Band 4 (5 MHz BAND WIDTH)



LTE 16QAM Band 4 (5 MHz BAND WIDTH)



LTE QPSK Band 4 (10 MHz BAND WIDTH)



LTE 16QAM Band 4 (10 MHz BAND WIDTH)

