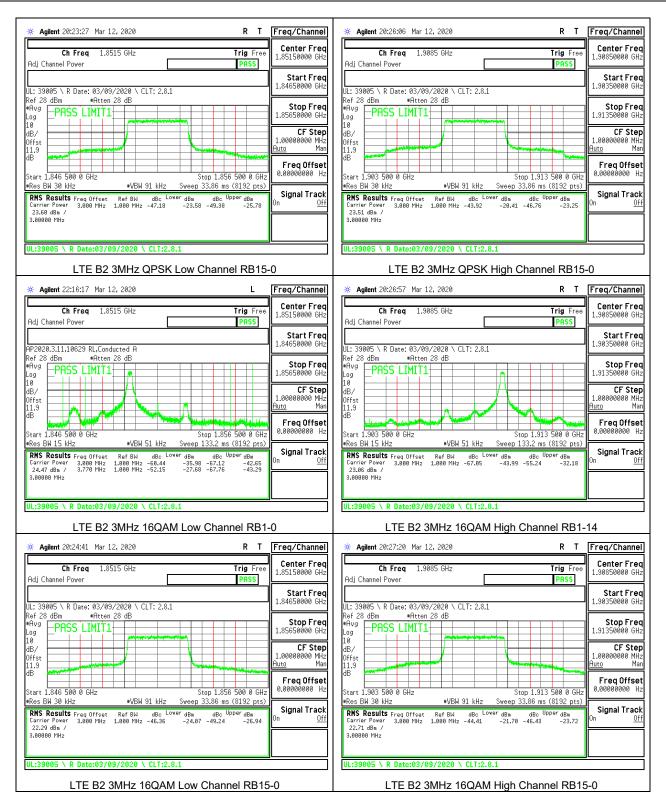
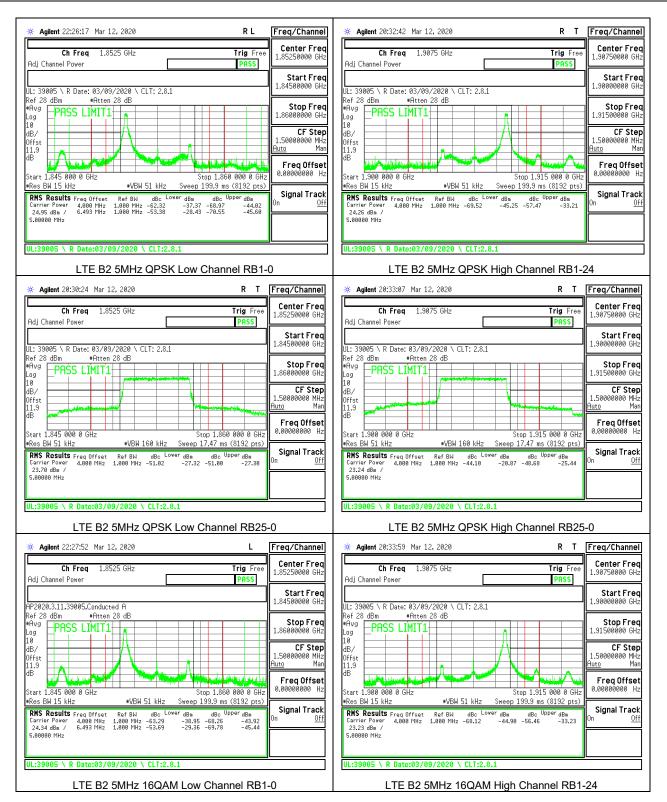


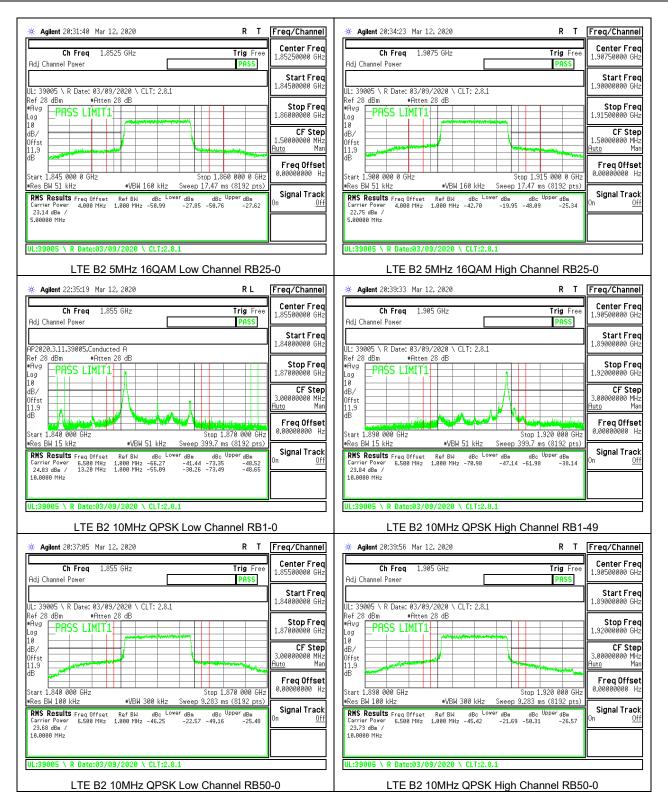
Page 76 of 317



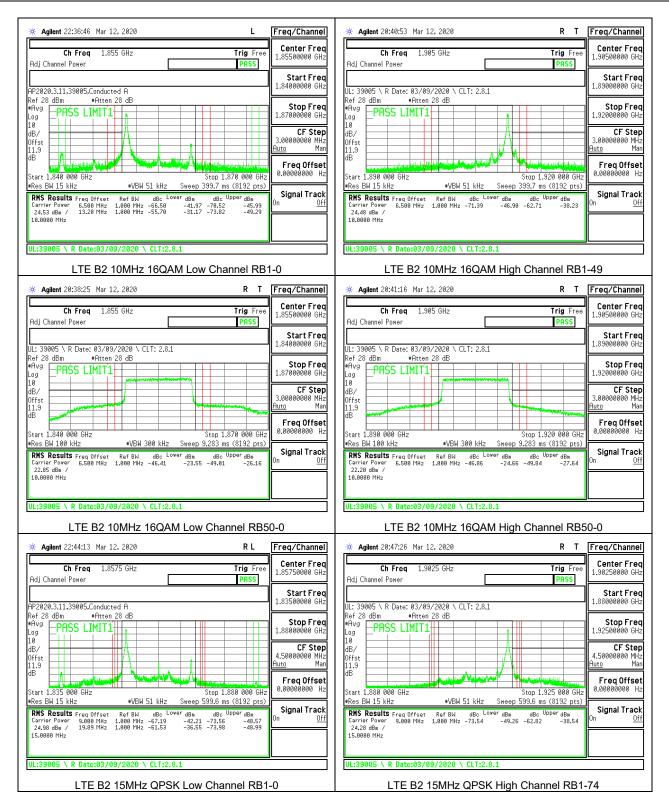
Page 77 of 317



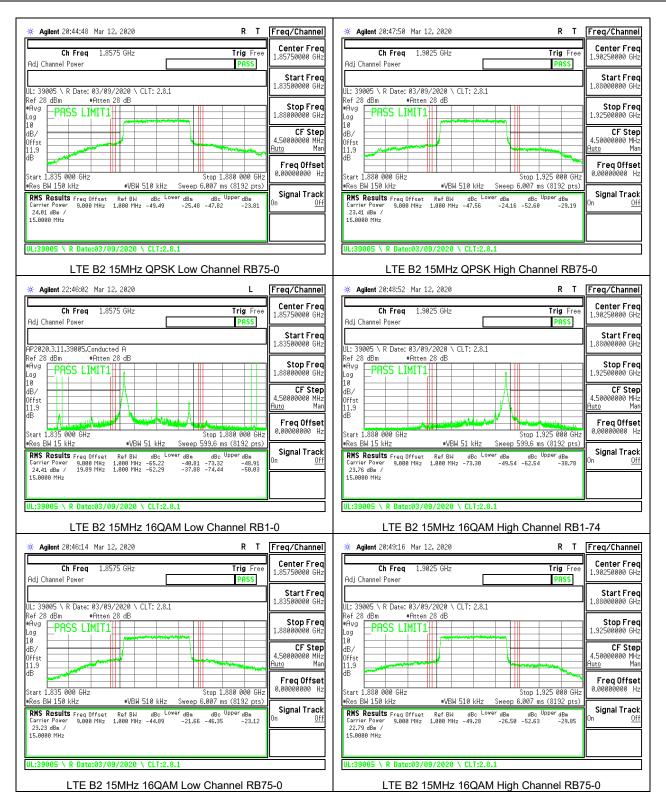
Page 78 of 317



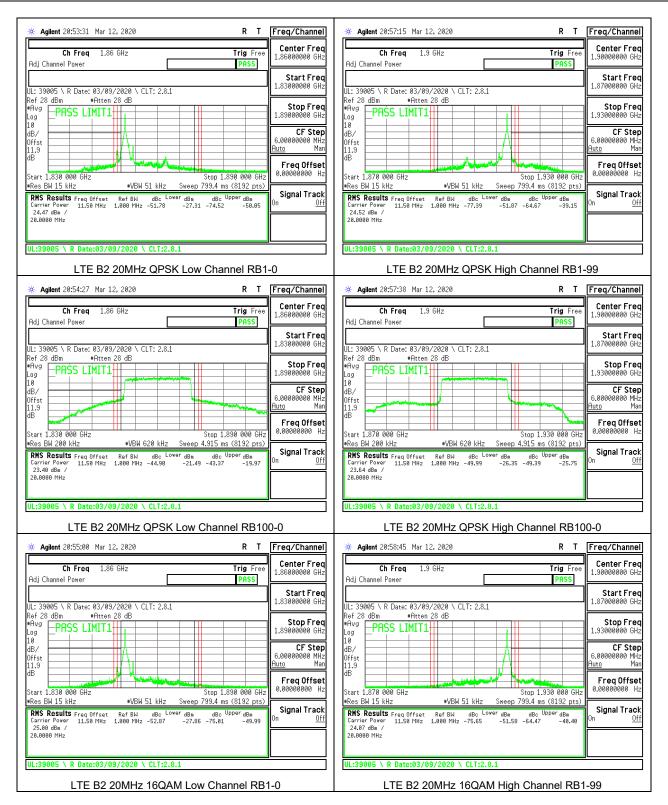
Page 79 of 317



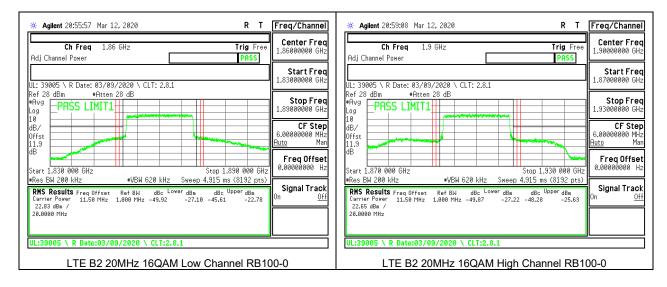
Page 80 of 317



Page 81 of 317



Page 82 of 317



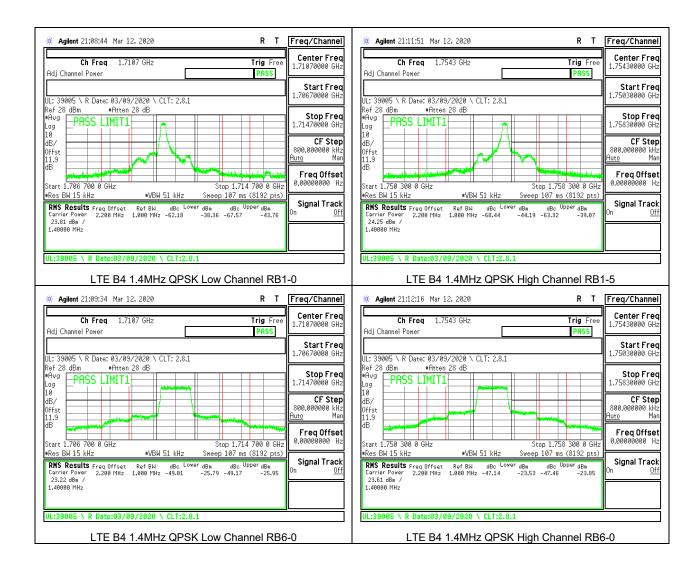
Page 83 of 317

# 8.2.2. LTE BAND 4 BANDEDGE

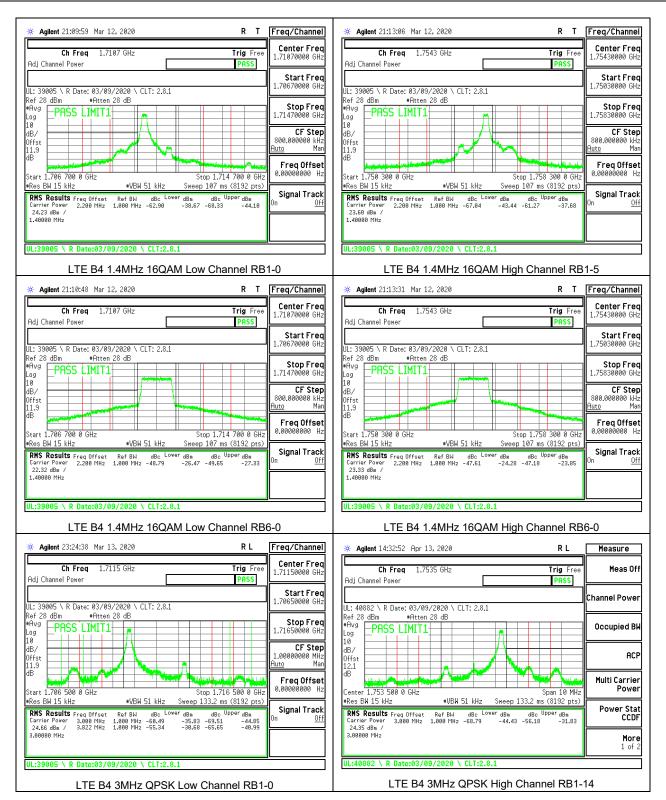
## LIMITS

FCC: §27.53(h)

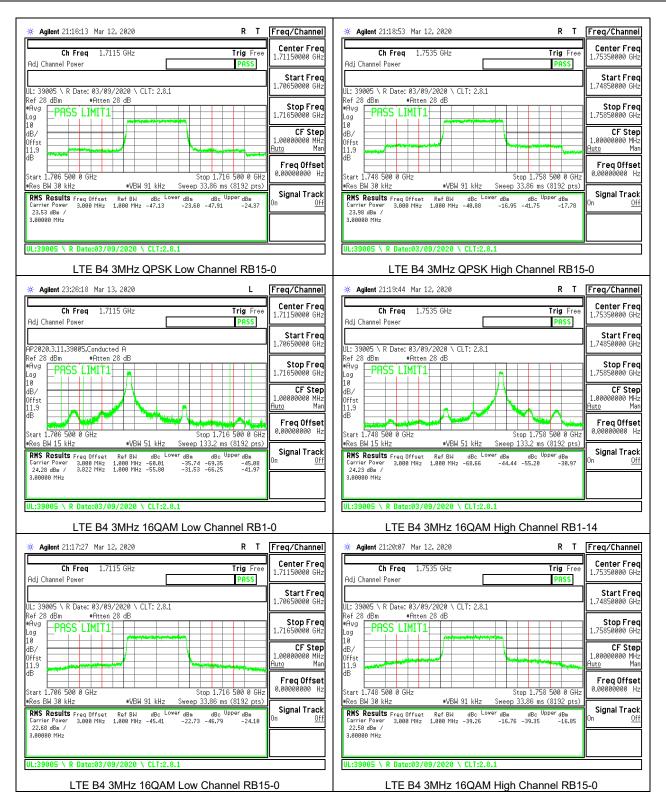
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.



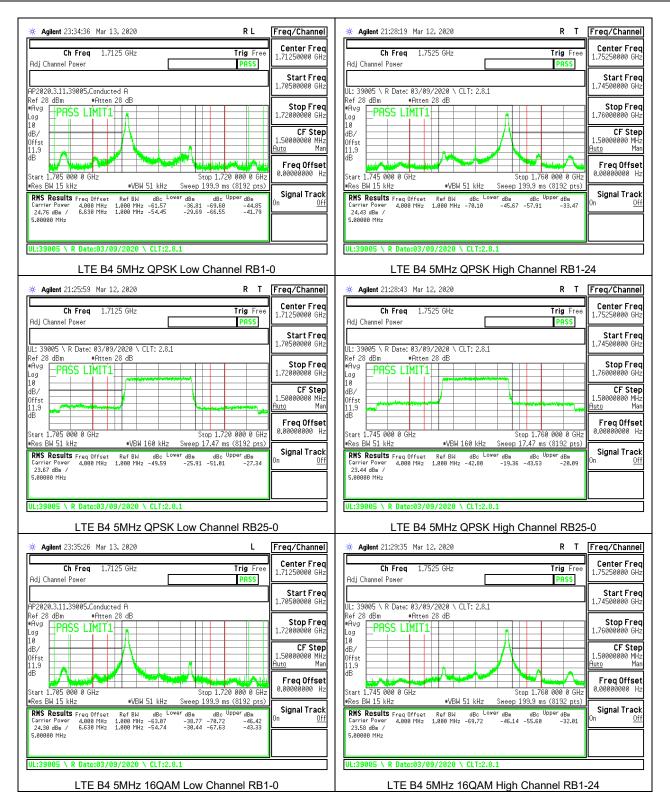
Page 84 of 317



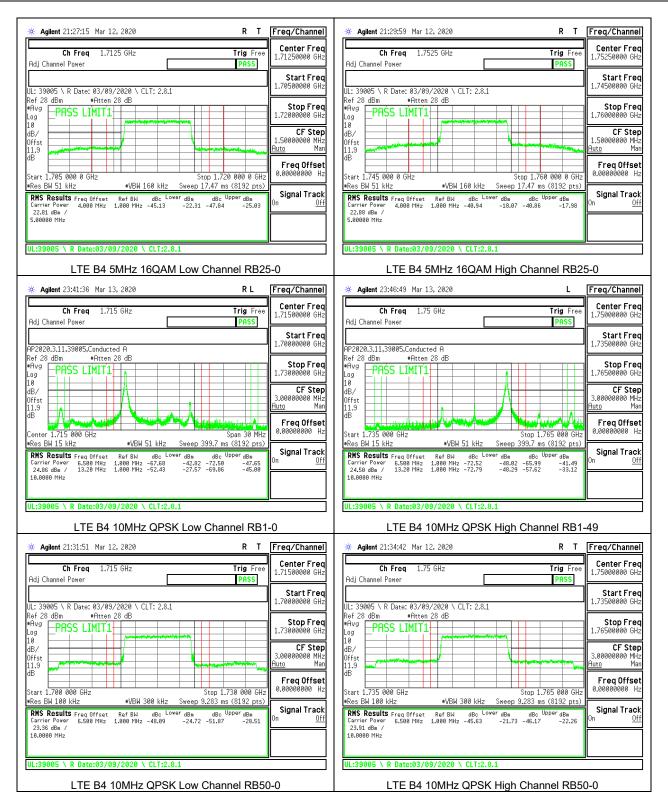
Page 85 of 317



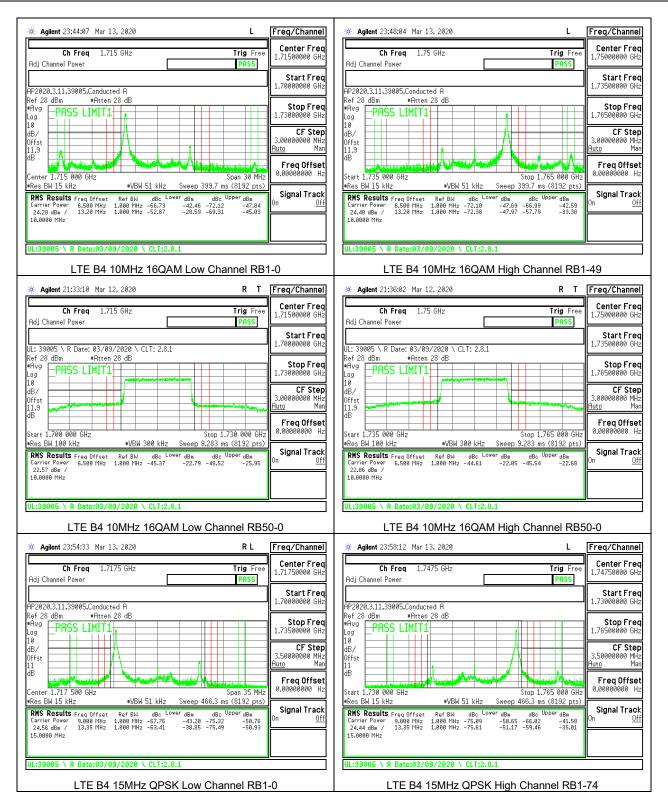
Page 86 of 317



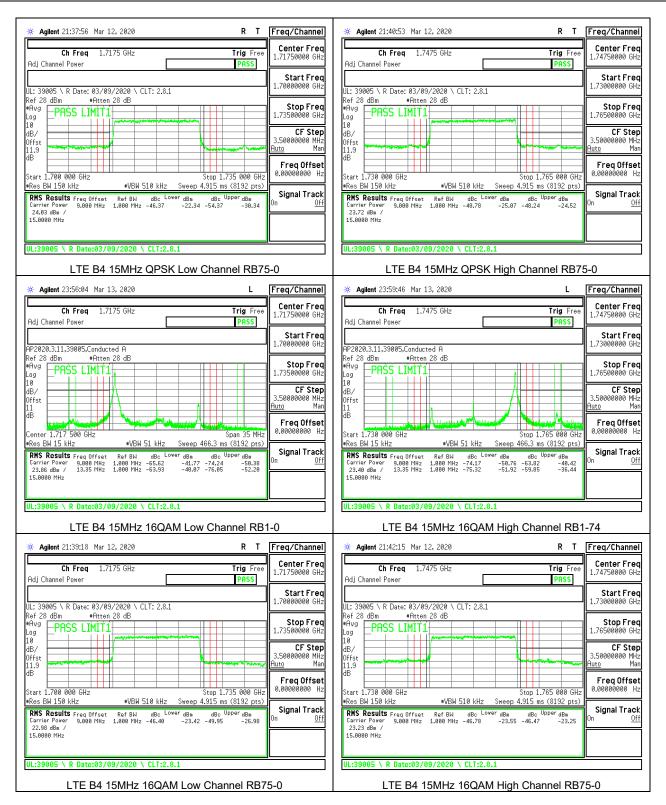
Page 87 of 317



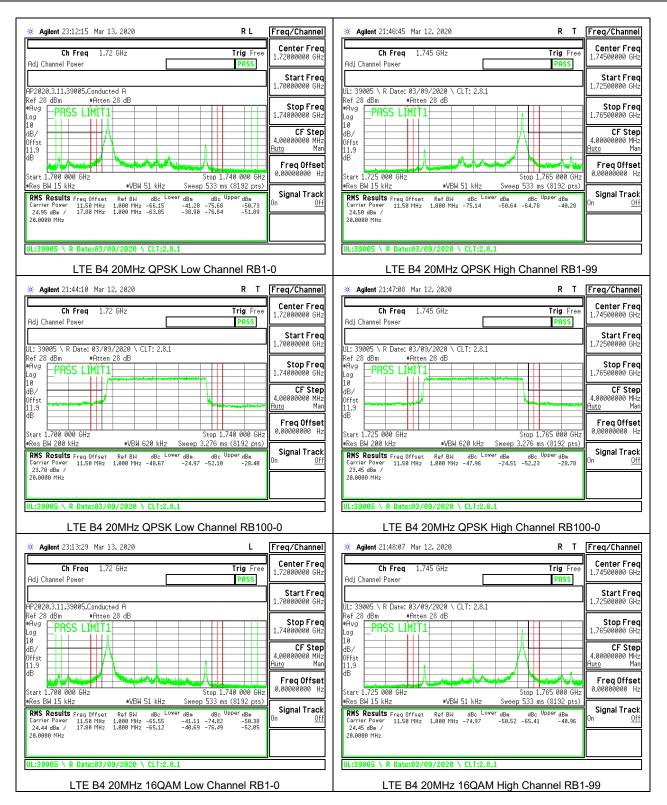
Page 88 of 317



Page 89 of 317



Page 90 of 317



Page 91 of 317

☆ Agilent 21:45:33 Mar 12, 2020 R T Free	eq/Channel	* Agilent 21:48:30 Mar 12, 2020 R T Freq/Channel
	<b>Center Freq</b> 72000000 GHz	Ch Freq         1.745 GHz         Trig         Free         1.74500000 GH           Adj Channel Power         PASS         1.74500000 GH         1.74500000 GH
	Start Freq 70000000 GHz	UL: 39005 \ R Date: 03/09/2020 \ CLT: 2.8.1
Ref 28 dBm •Atten 28 dB •Avg PASS LIMIT1	Stop Freq 74000000 GHz	Ref 28 dBm         •Atten 28 dB           •Avg         PRSS LIMIT1           Log         1.76500000 GI
	CF Step 20000000 MHz :0 Man	10 dB/ 0ffst 1.9 1.9 1.9
	Freq Offset 00000000 Hz	dB Start 1.725 000 GHz Stop 1.765 000 GHz 0.0000000 P
Carrier Power 11.50 MHz 1.000 MHz -46.58 -23.69 -51.71 -28.82 On	Signal Track Off	Res BW 200 kHz         *VBW 620 kHz         Sweep 3.276 ms (81.92 pts)         Signal Trac           RMS Results Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         11.59 MHz         1.080 MHz         -51.50         -28.52         -47.46         -24.58         0n         0
22.89 dBm / 28.8080 MHz		22.88 dBm / 28.8880 MHz
UL:39005 \ R Date:03/09/2020 \ CLT:2.8.1		UL:39005 \ R Date:03/09/2020 \ CLT:2.8.1
LTE B4 20MHz 16QAM Low Channel RB100-0	0	LTE B4 20MHz 16QAM High Channel RB100-0

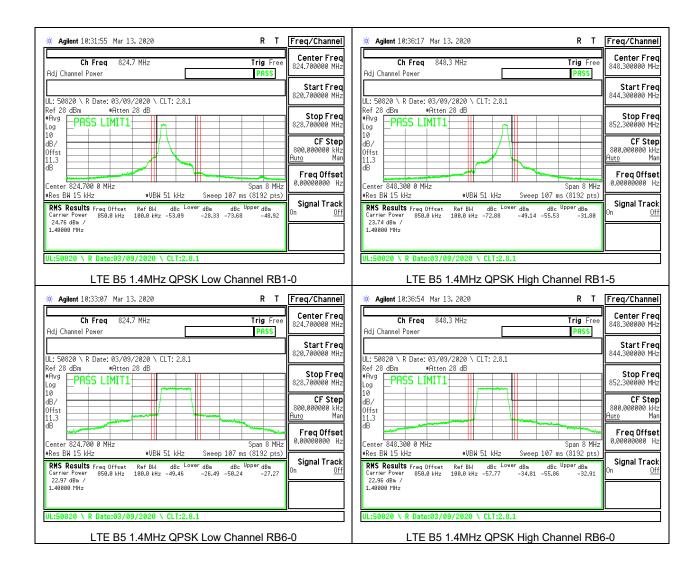
Page 92 of 317

# 8.2.3. LTE BAND 5 BANDEDGE

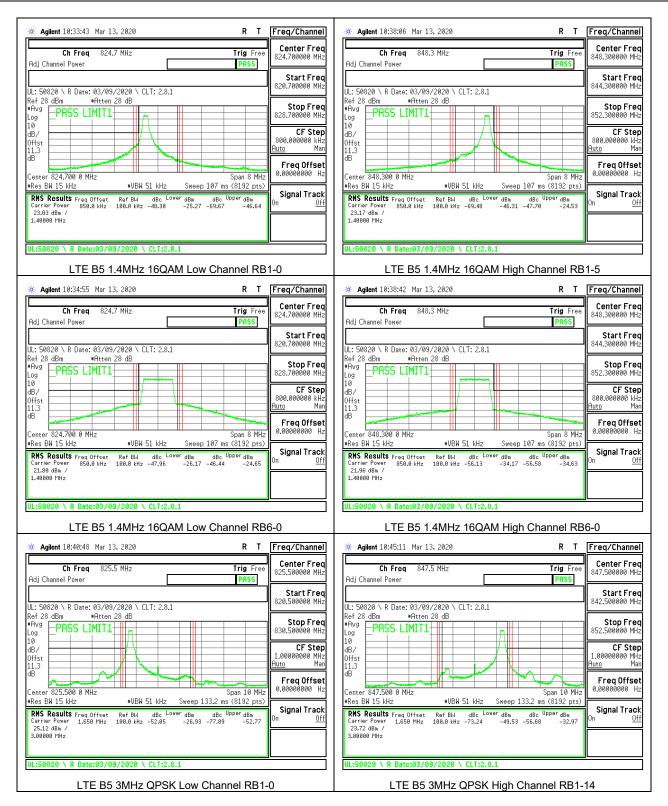
## LIMITS

#### FCC: §22.917

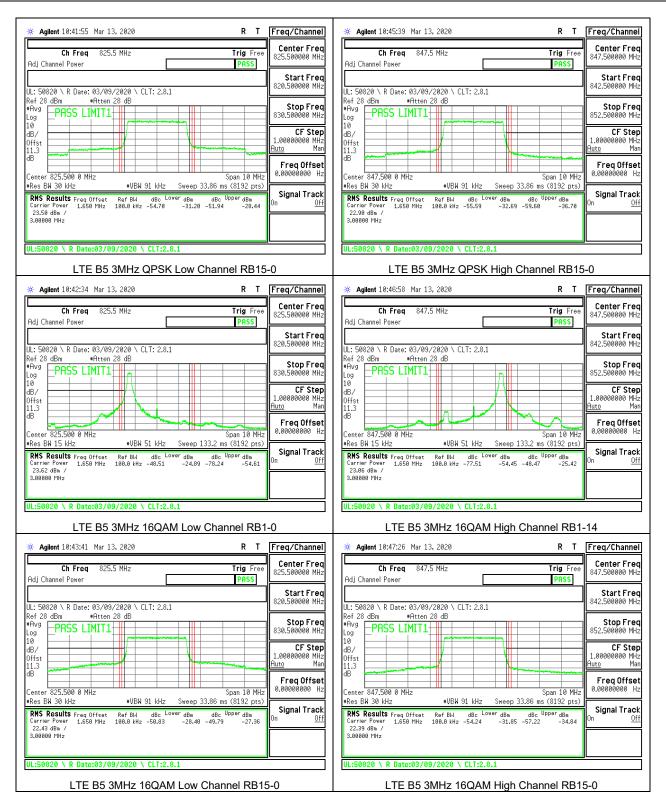
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.



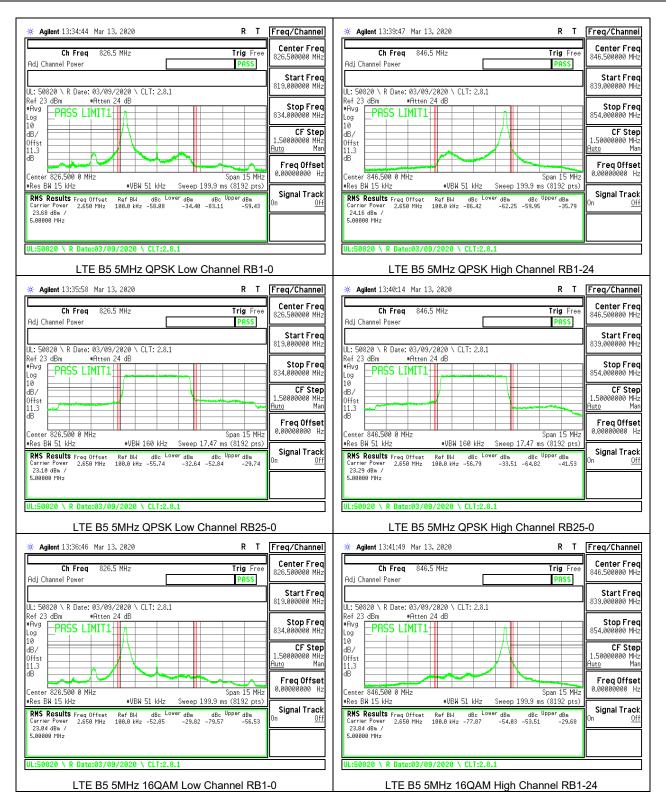
Page 93 of 317



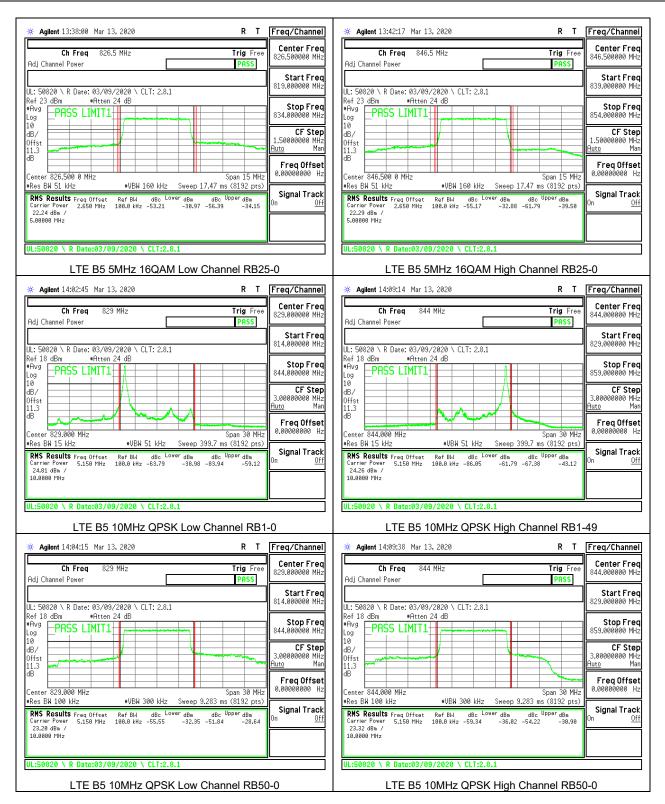
Page 94 of 317



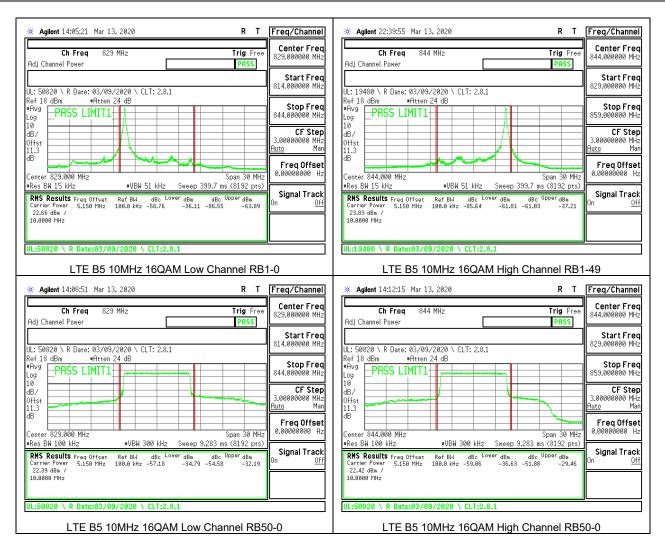
Page 95 of 317



Page 96 of 317



Page 97 of 317



Page 98 of 317

# 8.2.4. LTE BAND 7 ADJACENT CHANNEL POWER

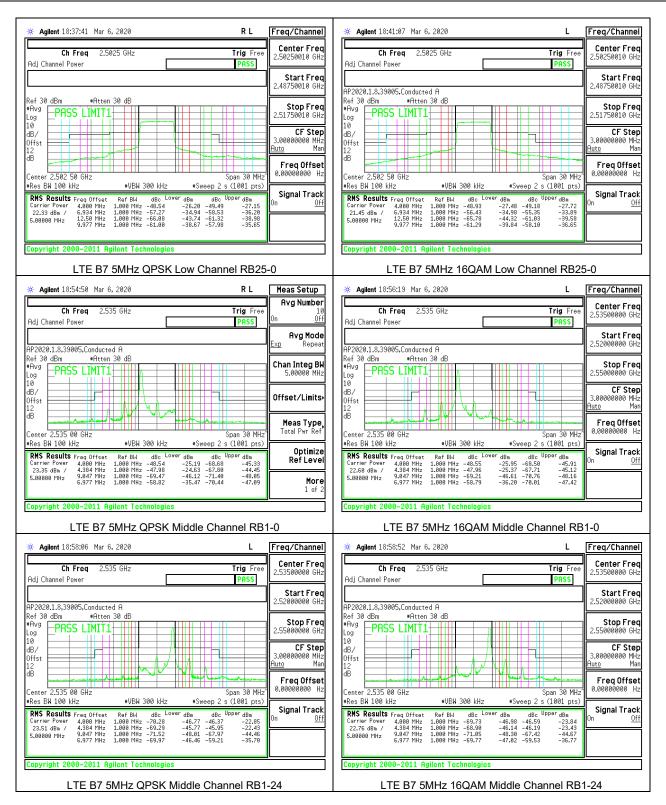
## LIMITS

#### FCC: §27.53

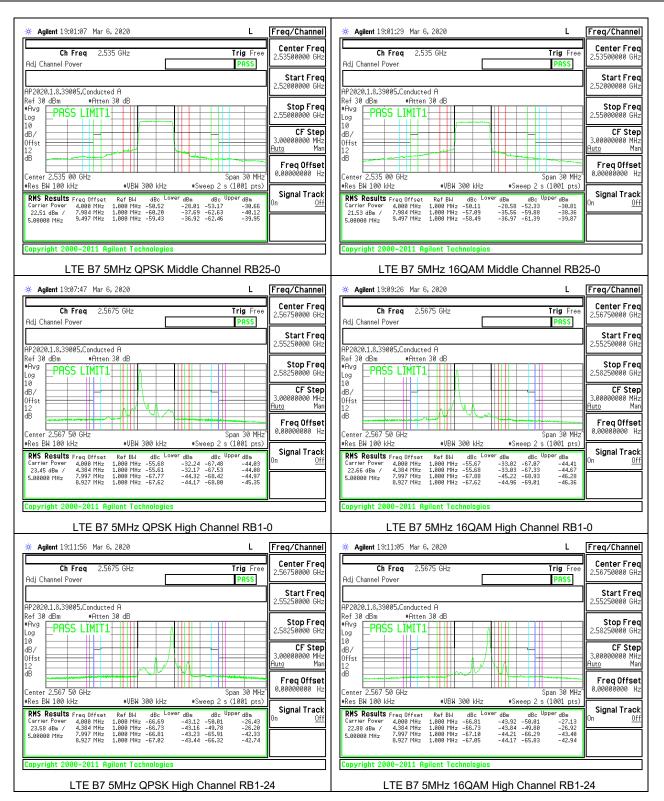
(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between 5 between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees.

₩ Agilent 18:43:24 Mar 6, 2020 L	Freq/Channel	₩ Agilent 18:44:38 Mar 6, 2020 L	Freq/Channel
Ch Freq 2.5025 GHz Trig Free Adj Channel Power PASS	Center Freq 2.50250010 GHz	Ch Freq 2.5025 GHz Trig Free Adj Channel Power PASS	Center Freq 2.50250010 GHz
	Start Freq 2.48750010 GHz		Start Freq 2.48750010 GHz
AP20201.3.39005,Conducted A           Ref 30 dBm           *Avg           PASS           L0	<b>Stop Freq</b> 2.51750010 GHz	AP20201.8,33005,Conducted A Ref 30 dB *Avg Log PRSS LIMIT1	<b>Stop Freq</b> 2.51750010 GHz
10 dB/ offst 12 dB	<b>CF Step</b> 3.00000000 MHz <u>Auto</u> Man	10 0ffst	<b>CF Step</b> 3.00000000 MHz <u>Auto</u> Man
Center 2.502 50 GHz Span 30 MHz <sup>2</sup>	Freq Offset 0.00000000 Hz	Center 2.502 50 GHz Span 30 MHz	
Res BW 100 kHz         •VBW 300 kHz         •Sweep 2 s (1001 pts)           RMS Results Freq Offset Carrier Power 4.000 MHz         Ref BW         dBc         Lover dBm         dBc         Upper dBm           23.20 dBm         6.934 MHz         1.000 MHz         -55.67         -32.46         -652.4         -42.04           3.20 dBm         6.934 MHz         1.000 MHz         -67.01         -63.24         -43.04           5.00000 MHz         1.250 MHz         1.000 MHz         -70.97         -47.77         -68.82         -45.61	Signal Track <sup>On <u>Off</u></sup>	Res BM 100 kHz         •VBM 300 kHz         •Sweep 2 s (1001 pts)           RHS Results Freq Offset         Ref BM         dBc Lover dBm         dBc Upper dBm           Carrier Pover         4,000 MHz         1.000 HHz         -55.84         -43.31           22.53 dBm         / 6.934 MHz         1.000 HHz         -65.84         -43.31           5.00000 MHz         1.200 HHz         -10.200 HHz         -65.24         -43.31	Signal Track <sup>On <u>Off</u></sup>
Copyright 2000-2011 Agilent Technologies		Copyright 2000-2011 Agilent Technologies	
LTE B7 5MHz QPSK Low Channel RB1-	0	LTE B7 5MHz 16QAM Low Channel RB	1-0
<b>☆ Agilent</b> 18:48:57 Mar 6, 2020 L	Freq/Channel	∦ Agilent 18:49:56 Mar 6, 2020 L	Freq/Channel
** Agilent 18:48:57         Mar 6, 2020         L           Ch Freq         2.5025         GHz         Trig         Free           Adj Channel Power         PRSS         PRSS         PRSS	Freq/Channel Center Freq 2.50250010 GHz	★ Agilent 18:49:56 Mar 6, 2020         L           Ch Freq         2.5025 GHz         Trig Free           Adj Channel Power         PRSS	Center Fred
Ch Freq 2.5025 GHz Trig Free Adj Channel Power PASS	Center Freq	Ch Freq 2.5025 GHz Trig Free Adj Channel Power PASS	Center Freq
Ch Freq         2.5025 GHz         Trig         Free           Adj Channel Power         IPRSS         IPRSS         IPRSS           AP2020.1.8,33005,Conducted A         Ref 30 dBm         •Atten 30 dB         •Atten 30 dB           *Avg         PASS LIMIT1         Iprovide the state of the state o	Center Freq 2.50250010 GHz Start Freq	Ch Freq         2.5025 GHz         Trig         Free           Adj Channel Power         PASS         PASS           AP2020.1.8,39005,Conducted A         Ref 30 dB         •Atten 30 dB           •Avg         PASS LIMIT1         A         A	Center Freq 2.50250010 GHz Start Freq
Ch Freq         2.5025 GHz         Trig         Free           Adj Channel Power         IPASS         IPASS         IPASS           AP2020.1.8.39005,Conducted A         #Atten 30 dB         #Atten 30 dB         IPASS         IPASS           Image: PASS	Center Freq 2.50250010 GHz Start Freq 2.48750010 GHz Stop Freq	Ch Freq         2.5025 GHz         Trig         Free           Adj Channel Power         PASS         PASS         PASS           AP2020.1.8,39005,Conducted A         eAtten 30 dB         eAtten 30 dB         eAtten 30 dB           PAG         PASS         Limit T1         Image: Conducted A         Image: Conducte	Center Freq 2.50250010 GHz Start Freq 2.48750010 GHz Stop Freq
Ch Freq 2.5025 GHz Trig Free Adj Channel Power PRSS Adj Channel Power PRSS AP2020.1.8,39005,Conducted A Ref 30 dBm •Atten 30 dB *Aug Log PRSS LIMIT1 10 dB/ Offst Center 2.502 50 GHz Span 30 MHz'	Center Freq 2.50250010 GHz Start Freq 2.48750010 GHz Stop Freq 2.51750010 GHz CF Step 3.00000000 HHz	Ch Freq 2.5025 GHz Trig Free Adj Channel Power PASS AP2020.1.8,39005,Conducted A Ref 30 dB •Atten 30 dB *Avg PASS LIMIT1 Log Dog Ddg Cog Cog Cog Cog Cog Cog Cog Co	Center Freq           2.59250010 GHz           Start Freq           2.48750010 GHz           Stop Freq           2.51750010 GHz           Stop Freq           3.00000000 MHz <u>Auto</u> Man           Freq Offset
Ch Freq 2.5025 GHz Trig Free Adj Channel Power PRSS AP2020.1.8,330005,Conducted A Ref 30 dBm *Atten 30 dB *Avg Log PRSS LIMIT1	Center Freq           2.50250010         GHz           Start Freq         2.48750010           2.48750010         GHz           Stop Freq         2.51750010           2.51750010         GHz           CF Step         3.0000000           Man         Freq Offset	Ch Freq 2.5025 GHz Trig Free Adj Channel Power PASS AP2020.1.8,39005,Conducted A Ref 30 dBm •Atten 30 dB •Avg Log D0 dB/ dA/ dB/ dA/ dB/ dA/ dB/ dA/ dA/ dB/ dA/ dA/ dB/ dA/ dA/ dA/ dA/ dA/ dA/ dB/ dA/ dA/ dA/ dA/ dA/ dA/ dA/ dA/ dA/ dA	Center Freq           2.59250010 GHz           Start Freq           2.48750010 GHz           Stop Freq           2.51750010 GHz           Stop Freq           3.00000000 MHz <u>Auto</u> Man           Freq Offset
Ch Freq         2.5025 GHz         Trig         Free           Adj Channel Power         PRSS         PRSS         PRSS           AP2020.1.8,339005,Conducted A         Ref 30 dBm         •Atten 30 dB         •Atten 30 dB           *Adj Cannel Power         PRSS LIMIT1         •Atten 30 dB         •Atten 30 dB           *Adj Cannel Power         PRSS LIMIT1         •Atten 30 dB         •Atten 30 dB           *Adj Cannel Power         PRSS LIMIT1         •Atten 30 dB         •Atten 30 dB           *Adj Cannel Power         PRSS LIMIT1         •Atten 30 dB         •Atten 30 dB           *Adj Cannel Power         PRSS LIMIT1         •Atten 30 dB         •Atten 30 dB           *Adj Cannel Power         *Atten 30 dB         •Atten 40 dB         •Atten 40 dB           Center         2.502 50 GHz         •Smeep 2 s (1001 pts)         •Smeep 2 s (2001 pts)           Centrier Power         4.808 MHz         •Atten 40 dB         •Atten 40 dB         •Atten 40 dB           Centrier Power         4.808 MHz         1.808 MHz         •Atten 40 dB         •Atten 40 dB         •Atten 40 dB           Centrier Power         4.808 MHz         1.808 MHz         •Atten 40 dB	Center Freq 2.50250010 GHz           Start Freq 2.48750010 GHz           Stop Freq 2.51750010 GHz           3.00000000 HHz Auto           Man           Freq Offset 0.0000000 Hz           Signal Track	Ch Freq         2.5025 GHz         Trig         Free           Adj Channel Power         PASS         PASS         PASS           AP2020.1.8,39005,Conducted A         •Atten 30 dB         •Atten 30 dB         •Atten 30 dB           *Avg         •Atten 30 dB         •Atten 30 dB         •Atten 30 dB           0         0         •Atten 30 dB         •Atten 30 dB           12         0         •Atten 40 dB         •Atten 40 dB           0         0         •Atten 40 dB         •Atten 40 dB           0         •Atten 40 dB         •Atten 40 dB         •Atten 40 dB           0         •Atten 40 dB         •Atten 40 dB         •Atten 40 dB           0         •Atten 40 dB         •Atten 40 dB         •Atten 40 dB           Center 2.502 50 GHz         •VBM 300 kHz         •Sweep 2 s (1001 pts)           Res BH 100 kHz         •VBH 300 kHz         •Atten 40 dB         •Atten 40 dB           Carrier Pore 4,000 MHz         1.400 MHz         •Atten 40 dB         •Atten 40 dB         •Atten 40 dB           Carrier Pore 4,000 MHz         1.400 MHz         •Atten 40 dB           2.63 dBa /         4.534 MHz         1.400 MHz         •Atte	Center Freq           2.59250010 GHz           Start Freq           2.48750010 GHz           Stop Freq           2.51750010 GHz           CF Step           3.00000000 MHz <u>Auto</u> Man           Freq Offset           0.00000000 Hz           Signal Track

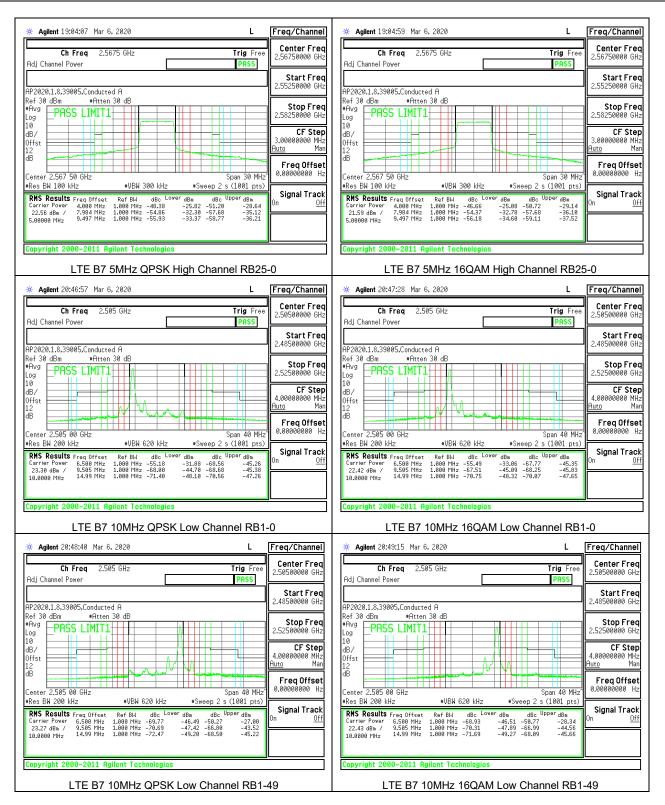
Page 99 of 317



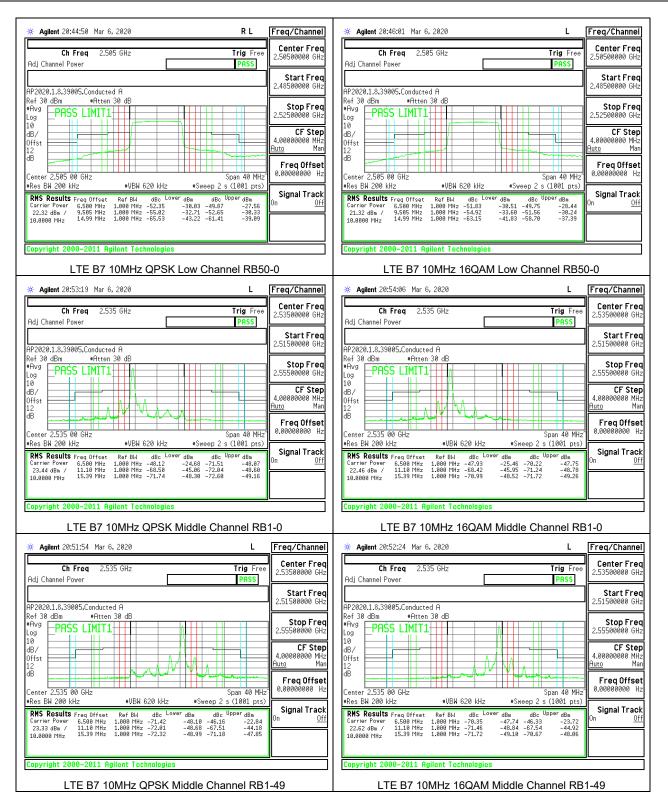
Page 100 of 317



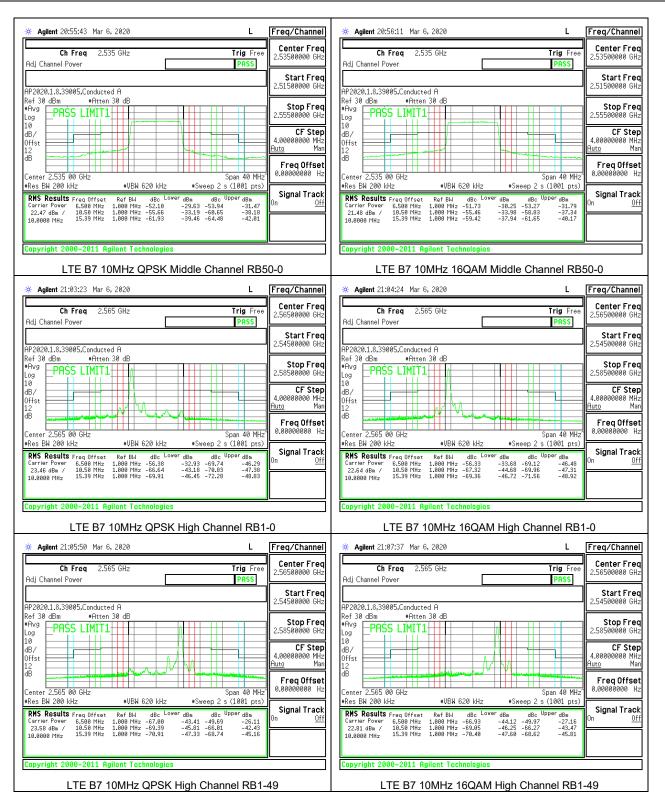
Page 101 of 317



Page 102 of 317



Page 103 of 317



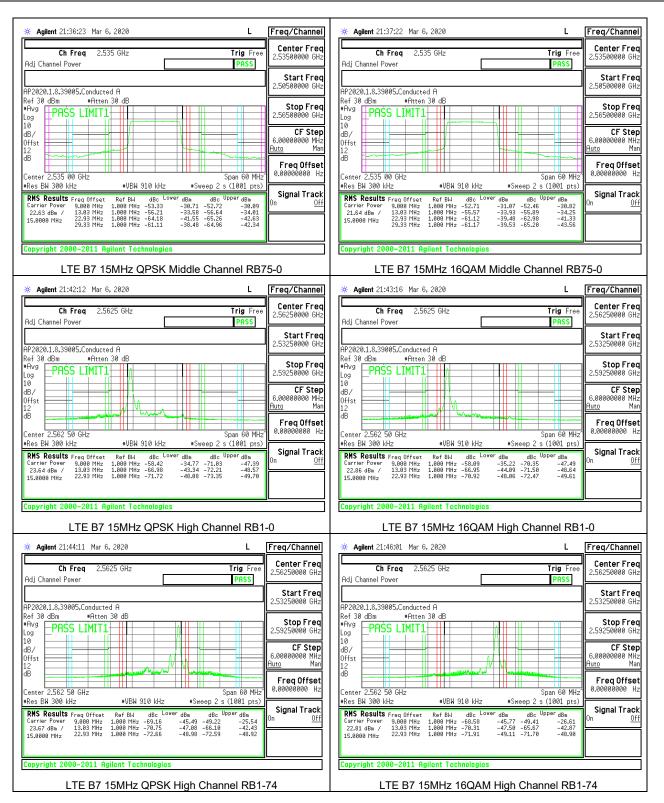
Page 104 of 317



Page 105 of 317



Page 106 of 317



Page 107 of 317



Page 108 of 317



Page 109 of 317



Page 110 of 317



Page 111 of 317

## 8.2.5. LTE BAND 12 ADJACENT CHANNEL POWER

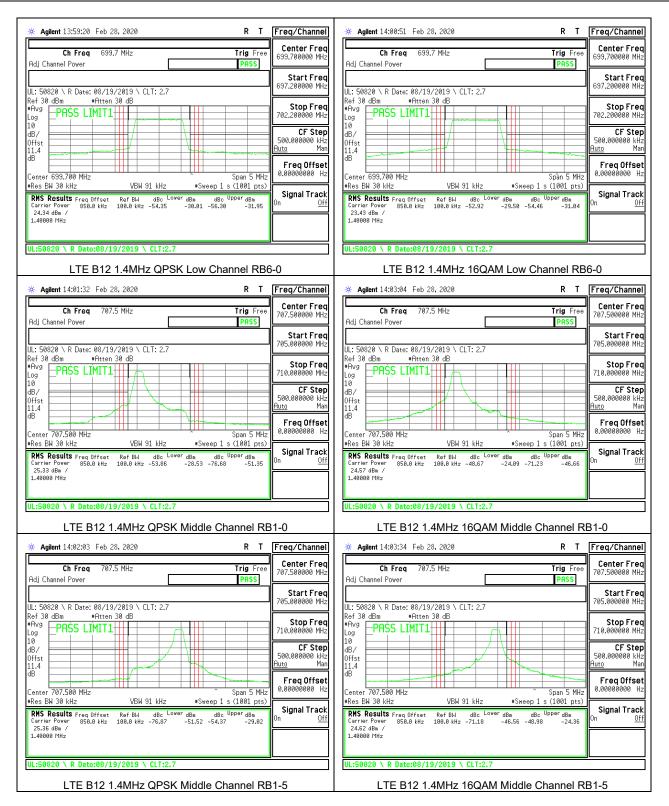
### LIMITS

#### FCC: §27.53

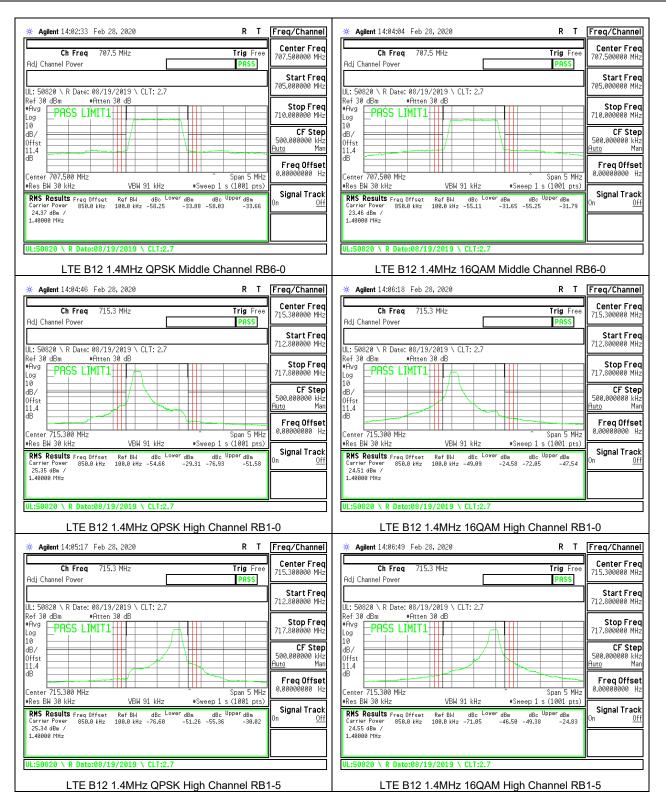
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

** Agilent 13:58:19         Feb 28, 2020         R         T         Freq/Chann           Ch         Freq         699.7 MHz         Center Fre         699.700000	Center Freq
Adj Channel Power         PASS           UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7         697.200000 M           Ref 30 dBm         •Atten 30 dB           *Ary         PASS LIMIT1           0B/         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0	Adj Channel Power         PASS           UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7         Start Freq 697.200000 MHz           effyage         effyage           effyage         PRSS LIMIT1           offst         flag           dB/         offst           dB/         offst           center 699.700 MHz         Stop Freq 900.000000 kHz           Res BN 30 kHz         VBW 91 kHz           Sweep 1 s (1001 pts)         Signal Track
UL:50820 \ R Date:08/19/2019 \ CLT:2.7 LTE B12 1.4MHz QPSK Low Channel RB1-0	UL:50820 \ R Date:08/19/2019 \ CLT:2.7 LTE B12 1.4MHz 16QAM Low Channel RB1-0
<b>B T F r r r r r r r r r r</b>	
Agilent 13:58:50         Feb 28, 2020         R         T         Freq/Channe	
Ch Freq 699.7 MHz Center Fre 699.700000 MHz	Ch Freq 699.7 MHz Ch Freq 699.7 MHz Ch Freq 699.7 MHz Ch Freq 699.7 MHz Ch Freq 699.700000 MHz
Ch Francisco 2 Miles Tele Francisco Center Fre	Ch Freq         699.7 MHz         Trig         Free         699.700000 MHz           Adj Channel Power         PRSS         Start Freq         699.700000 MHz           UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7         697.200000 MHz         Start Freq           eFlvg         PRSS LIMIT1         702.200000 MHz           0dB/         eAtten 30 dB         500.000000 MHz           10         CF Step           0dFst         500.000000 MHz           11.4         Span 5 MHz           0.603.700 MHz         Span 5 MHz           eRes BM 30 kHz         VBW 91 kHz         •Sweep 1 s (1001 pts)

Page 112 of 317



Page 113 of 317



Page 114 of 317

* Aglient 14:05:48 Feb 28, 2020 R T Freq/Channel	Agilent 14:07:19 Feb 28, 2020 R T Freq/Channel
Ch Freq 715.3 MHz Trig Free 715.300000 MHz Adj Channel Power PASS	Ch Freq 715.3 MHz Trig Free 715.300000 MHz 715.300000 MHz
Start Freq	Start Freg
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7 Ref 30 dB	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7 Ref 30 dBm + Atten 30 dB
PRSS LIMIT1	Hyger PASS LIMIT1     Stop Freq     717.800000 MHz
10 dB/	
0657 Offst 11.4 500.000000 kHz Auto Man	dB/ 0ffst         /         /         /         /         500.000000 kHz           11.4         /         /         /         /         /         /         /           dB         / </td
dB Freq Offset	Freq Offset
Center 715.300 MHz Span 5 MHz 0.000000000 Hz •Res BW 30 kHz VBW 91 kHz •Sweep 1 s (1001 pts)	Center 715.300 MHz         Span 5 MHz         0.00000000 Hz           •Res BW 30 kHz         VBW 91 kHz         •Sweep 1 s (1001 pts)
RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track	RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track
Carrier Power 850.0 kHz 100.0 kHz -52.91 -28.54 -53.77 -29.39	Carrier Pover 958.8 kHz 100.0 kHz -51.20 -27.81 -51.81 -28.41
UL:50820 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 1.4MHz QPSK High Channel RB6-0	LTE B12 1.4MHz 16QAM High Channel RB6-0
* Agilent 14:10:03 Feb 28, 2020 R T Freq/Channel	* Agilent 14:11:36 Feb 28, 2020 R T Freq/Channel
Ch Freq 700.5 MHz Trig Free 700.500000 MHz 700.500000 MHz	Ch Freq 700.5 MHz Trig Free 700.500000 MHz
Adj Channel Power PASS Start Freq	Adj Channel Power PASS Start Freq
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7
Ref 30 dBm •Atten 30 dB •Avg PRSS LIMITIO	Ref 30 dBm •Atten 30 dB Stop Freq
10 dB/	
0657 0ffst 11.4 750.000000 kHz <u>Auto</u> Man	06/5t 750.000000 kHz 11.4 Auto Man
dB Freq Offset	dB Freq Offset
Center 700.500 0 MHz \$20000000 Hz •Res BW 30 kHz VBW 91 kHz •Sweep 1 s (1001 pts)	Center 700.500 0 MHz ^ Span 7.5 MHz 0.00000000 Hz •Res BW 30 kHz VBW 91 kHz •Sweep 1 s (1001 pts)
RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm	RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track
Carrier Power 1.650 MHz 100.0 kHz -53.39 -28.23 -75.19 -50.03	Carrier Pover 1.650 MHz 100.0 kHz -48.05 -23.57 -78.01 -54.33
UL:50820 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK Low Channel RB1-0	LTE B12 3MHz 16QAM Low Channel RB1-0
* Agilent 14:10:33         Feb 28, 2020         R         T         Freq/Channel	* Agilent 14:12:06 Feb 28, 2020 R T Freq/Channel
Ch Freq 700.5 MHz Center Freq 700.500000 MHz	Ch Freq 700.5 MHz Center Freq 700.500000 MHz
Rdj Channel Power PRSS Start Freq	Adj Channel Power PASS Start Freq
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7
Ref 30 dBm         •Atten 30 dB           •Avg         PASS LIMIT1         0	Ref 30 dBm •Atten 30 dB •Atten 30 dB
Log 704.250000 MHz	Log PRSS LIMITI 704.250000 MHz
dB/         CF Step           0ffst         750.000000 kHz           11.4         Man	dB/         CF Step           0ffst         750.000000 kHz
	Huto Man
Center 700.500 0 MHz Span 7.5 MHz 0.00000000 Hz	Center 700.500 0 MHz Span 7.5 MHz 0.00000000 Hz
Res BW 30 kHz VBW 91 kHz *Sweep 1 s (1001 pts)     RHS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm     Opp	Res BW 30 kHz VBW 91 kHz *Sweep 1 s (1001 pts)
Carrier Power 1.650 MHz 100.0 kHz -75.72 -50.32 -53.23 -27.84	Carrier Power 1.650 MHz 100.0 kHz -78.38 -53.76 -47.99 -23.37
3.00000 MHz	3.0000 MHz
UL:50820 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK Low Channel RB1-14	LTE B12 3MHz 16QAM Low Channel RB1-14

Page 115 of 317

★ Agilent 14:11:05 Feb 28, 2020	eq/Channel	
	Center Freq 00.500000 MHz	Ch Freq 700.5 MHz Trig Free 700.500000 MHz 700.500000 MHz 700.500000 MHz
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	Start Freq 96.750000 MHz	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7
Ref 30 dBm #Atten 30 dB	Stop Freq 04.250000 MHz	Ref 30 dBm         +Atten 30 dB         Stop Freq           *PAys         PRSS LIMITI         704.250000 MHz
	CF Step 50.00000 kHz	10 dB/
		0ffst 750.000000 kHz 11.4 dB Freq 0ffset
Center 700,500 0 MHz Span 7,5 MHz 0. •Res BW 30 kHz VBW 91 kHz •Sweep 1 s (1001 pts)	.00000000 Hz	Center 700.500 0 MHz Span <sup>7</sup> 7.5 MHz 0.00000000 Hz •Res BH 30 kHz VBW 91 kHz •Sweep 1 s (1001 pts)
RMS         Results         Freq         Offset         Ref         BM         dBc         Lower         dBm         dBc         Darrier         Darrier         Darrier         DBM         dBm         Darrier         Darrier <thdarrier< th="">         Darrier         <thdarrier< th="">         Darrier         Darrier</thdarrier<></thdarrier<>	Signal Track <u>Off</u>	RMS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm         Signal Track           Carrier Power         1.650 MHz         180.0 kHz         -56.29         -32.72         -56.14         -32.57           23.57 dBm /         3.80000 MHz         100.0 kHz         -56.29         -32.72         -56.14         -32.57
UL:50820 \ R Date:08/19/2019 \ CLT:2.7		UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK Low Channel RB15-0		LTE B12 3MHz 16QAM Low Channel RB15-0
* Agilent 14:13:18 Feb 28, 2020 R T Fr	eq/Channel	* Agilent 14:14:50 Feb 28, 2020 R T Freq/Channel
	Center Freq 07.500000 MHz	Ch Freq         707.5 MHz         Trig         Free         Center Freq         707.500000 MHz           Adj Channel Power         PRSS         PRSS         200000 MHz         20000 MHz         2000
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	Start Freq 03.750000 MHz	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7
Ref 30 dBm +Atten 30 dB	Stop Freq L1.250000 MHz	Ref 30 dBm         *Atten 30 dB           *Hvg         PRSS         LIMIT1
	CF Step 50.00000 kHz	10/ dB/ 0ffst
	<u>to</u> Man Freq Offset	dB Auto Man
*Res BW 30 kHz VBW 91 kHz *Sweep 1 s (1001 pts)	.00000000 Hz	Center 707.500 0 MHz Span 7.5 MHz 0.00000000 Hz •Res BW 30 kHz VBW 91 kHz •Sweep 1 s (1001 pts)
Carrier Power 1.650 MHz 100.0 kHz -52.57 -27.19 -74.89 -49.51	Signal Track <u>Off</u>	RMS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm         Signal Track           Carrier Power         1.650 MHz         100.0 kHz         -48.55         -24.00         -78.55         -53.99         On         Off           24.56 dBm /
3.88888 MHz		3.80808 MHz
UL:50820 \ R Date:08/19/2019 \ CLT:2.7		UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK Middle Channel RB1-0	)	LTE B12 3MHz 16QAM Middle Channel RB1-0
	eq/Channel Center Freq	Agitent 14:15:21 Feb 28, 2020     R T Freq/Channel      Channel      Channel
	07.500000 MHz	Adj Channel Power PRSS 707.500000 MH2
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	Start Freq 03.750000 MHz	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7
	Stop Freq L1.250000 MHz	Ref 30 dBm •Htten 30 dB Stop Freq PAys PRSS LIMIT1 711.250000 MHz
	CF Step 50.000000 kHz	10 dB/ Offst CF Step 750,000000 kHz 750,000000 kHz
	Freq Offset	11.4 dB
•Res BW 30 kHz         VBW 91 kHz         •Sweep 1 s (1001 pts)	.00000000 Hz Signal Track	Center 707.500 0 MHz Span 7.5 MHz 0.00000000 Hz •Res BN 30 kHz VBN 91 kHz •Sweep 1 s (1001 pts) Signal Track
RHS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         1.650 MHz         100.0 kHz         -75.69         -50.47         -52.45         -27.22           25.22 dBm         J.00000 MHz         3.00000 MHz         -75.69         -50.47         -52.45         -27.22	<u>Off</u>	RMS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Power         1.658 MHz         100.0 kHz         -79.37         -54.74         -48.28         -23.66           24.63 dBm         //         3.000000 MHz         100.0 kHz         -79.37         -54.74         -48.28         -23.66
3.00000 FIN2		
UL:50820 \ R Date:08/19/2019 \ CLT:2.7		UL:50020 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK Middle Channel RB1-14	4	LTE B12 3MHz 16QAM Middle Channel RB1-14

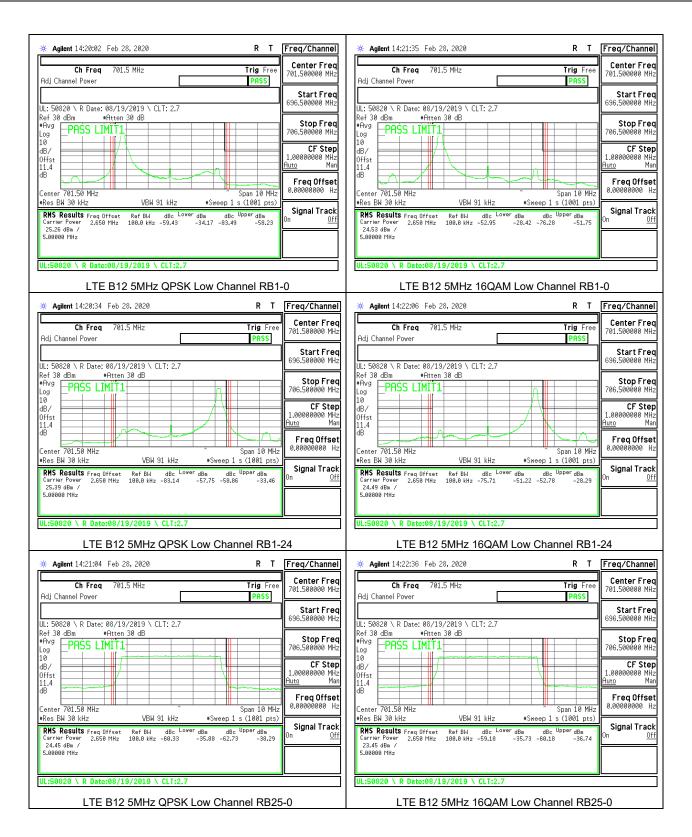
Page 116 of 317

★ Agilent 14:14:19 Feb 28, 2020 R T Freq/Channel	* Agilent 14:15:51 Feb 28, 2020 R T Freq/Channel
Ch From 707.5 Miles Trip From Center Freq	Ch From 2025 Mile Twin From Center Freq
Ch Freq         707.5 MHz         Trig         Free         707.500000 MHz           Adj Channel Power         PRSS         707.5000000 MHz         707.5000000 MHz         707.5000000 MHz	Ch Freq         707.5 MHz         Trig         Free         707.500000 MHz           Adj Channel Power         PASS         707.500000 MHz         707.500000 MHz
Start Freq 703.750000 MHz	Start Freq 703.750000 MHz
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7 Ref 30 dBm • Atten 30 dB *Bug Stop Freq	DL: 50820 \ R Date: 08/19/2019 \ CL1: 2./ Ref 30 dBm #Atten 30 dB
•Avg Log         PASS LIMITI         Stop Freq 711.250000 MHz           10         711.250000 MHz	•Rvg Log         PRSS         LIMIT1         Stop Freq 711.250000         MHz
dB/ CF Step 750.000000 kHz	dB/ 0ffst CF Step 750.000000 kHz
dB	dB
Center 707.500 0 MHz ^ Span 7.5 MHz 0.0000000 Hz	Center 707.500 0 MHz ^ Span 7.5 MHz 0.0000000 Hz
Res BW 30 kHz     VBW 91 kHz     Sweep 1 s (1001 pts)     Signal Track     KMS Results Freq Offset Ref BW     dBc Lover dBm     dBc Upper dBm     dBc Upper dBm     dBc Upper dBm	Res BW 30 kHz     VBW 91 kHz     Sweep 1 s (1001 pts)     RMS Results Freq Offset Ref BW     dBc Lower dBm     dBc Upper dBm     Off
Carrier Power 1.650 MHz 100.0 kHz -59.46 -35.06 -57.39 -32.99	Carrier Power 1.650 MHz 100.0 kHz -57.36 -33.88 -55.88 -32.40
3.0000 MHz	3.00000 MHz
UL:50820 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK Middle Channel RB15-0	LTE B12 3MHz 16QAM Middle Channel RB15-0
Agilent 14:16:32         Feb 28, 2020         R T         Freq/Channel	* Aglient 14:18:04 Feb 28, 2020 R T Freq/Channel
Ch Freq 714.5 MHz Trig Free 714.500000 MHz	Ch Freq 714.5 MHz Trig Free 714.500000 MHz
Adj Channel Power PRSS Start Freq	Adj Channel Power PRSS Start Freq
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7 Ref 30 dBm • Atten 30 dB	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7  Ref 30 dBm +Atten 30 dB
PRSS LIMIT1 718.250000 MHz	
0751 750.000000 kHz 11.4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0ffst 11.4 dB
dB         Freq Offset           Center 714.500 0 MHz         Span 7.5 MHz	Center 714.500 0 MHz Span 7.5 MHz 0.00000000 Hz
Res BW 30 kHz VBW 91 kHz +Sweep 1 s (1001 pts)	*Res BW 30 kHz VBW 91 kHz *Sweep 1 s (1001 pts)
RHS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm         Signal if acc           Carrier Power         1.550 MHz         180.0 kHz         -52.15         -26.90         -75.76         -50.51         On         Off           25.26 dBm /d         -         -         -         -         -         -         On         Off	RHS Results         Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm         Signal If ack         On         Off           24.52         48m /         -55.00 MHz         108.0 kHz         -47.64         -23.12         -79.10         -54.58         On         Off
3.80808 MHz	3.00000 MHz
UL:50820 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK High Channel RB1-0	LTE B12 3MHz 16QAM High Channel RB1-0
* Agilent 14:17:02 Feb 28, 2020 R T [Freq/Channel]	* Agilent 14:18:34 Feb 28, 2020 R T [Freq/Channel]
Ch. From 714 F. Miles Trip From Center Freq	Ch From 7445 Miles Trig From Center Freq
Adj Channel Power PASS 714.500000 MHz	Adj Channel Power PRSS 714.500000 MHz
UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	UL: 50820 \ R Date: 08/19/2019 \ CLT: 2.7
Ref 30 dBm #Atten 30 dB	Ref 30 dBm +Atten 30 dB
Log PHSS LIMITI 718.250000 MHz	Log PHSS LIMITI 718.250000 MHz
dB/ Offst CF Step 750.000000 kHz	dB/ 0ffst
11.4 dB Freq Offset	11.4 dB
Center 714.500 0 MHz Span 7.5 MHz 0.000000000 Hz •Res BW 30 KHz VBW 91 KHz •Sweep 1 s (1001 pts)	Center 714.500 0 MHz Span 7.5 MHz 0.00000000 Hz Res BM 30 kHz VBH 91 kHz \$\$weep 1 s (1001 pts)
RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm Signal Track	RMS Results Freq Offset Ref BW dBc Lower dBm dBc Upper dBm On Off
Carrier Power 1.658 MHz 100.0 kHz -75.34 -49.98 -54.36 -28.99	Carrier Power 1.650 MHz 100.0 kHz -78.26 -53.84 -48.56 -24.14 UN UT 24.42 dBm / 3.800000 MHz
UL:50820 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7
LTE B12 3MHz QPSK High Channel RB1-14	LTE B12 3MHz 16QAM High Channel RB1-14

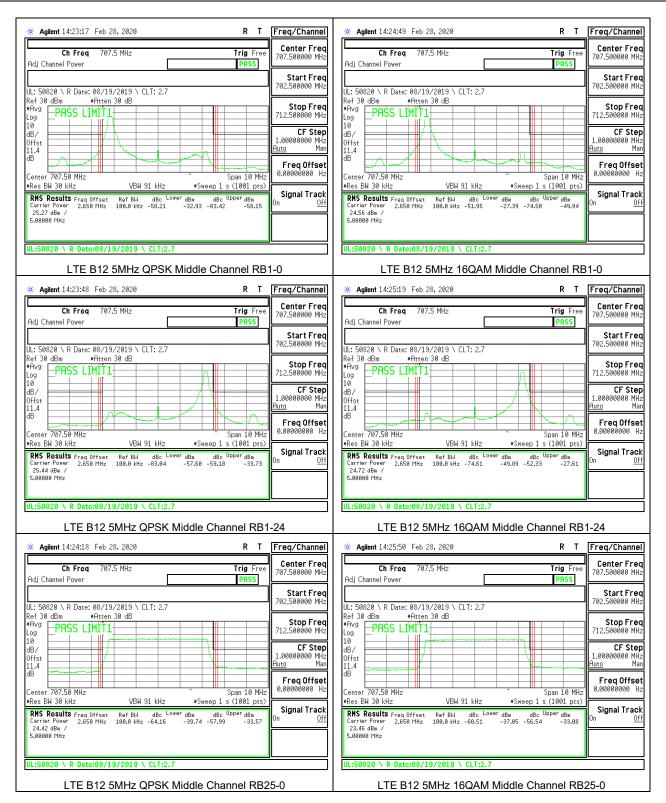
Page 117 of 317

	Freq/Channel         * Agilent 14:19:05         Feb 28, 2020         R T           Center Freq	Freq/Channel Center Freq 714.500000 MHz
Adj Channel Power PASS	Start Freq         PRSS           114.300000 HHz         L: 50820 \ R Date: 08/19/2019 \ CLT: 2.7	Start Freq 710.750000 MHz
	Stop Freq 718.250000 MHz         Ref 30 dBm         •Atten 30 dB           CF Cture         10	Stop Freq 718.250000 MHz CF Step
dB dB	CF Step         dB/         df/         df/           Doto         Offst         0	750.000000 kHz Auto Man Freq Offset 0.00000000 Hz
*Res BW 30 kHz VBW 91 kHz *Sweep 1 s (1001 pts)	Signal Track         *Res BW 30 kHz         VBW 91 kHz         *Sweep 1 s (1001 pts)           Dn         Off         Carrier Pover 1.650 MHz         100.0 kHz         -31.26         -53.16         -29.72           3.80000 MHz         3.80000 MHz         100.0 kHz         -54.70         -31.26         -53.16         -29.72	<b>Signal Track</b> On <u>Off</u>
UL:50920 \ R Date:08/19/2019 \ CLT:2.7	UL:50820 \ R Date:08/19/2019 \ CLT:2.7	
LTE B12 3MHz QPSK High Channel RB15-0	-0 LTE B12 3MHz 16QAM High Channel RB1	5-0

Page 118 of 317



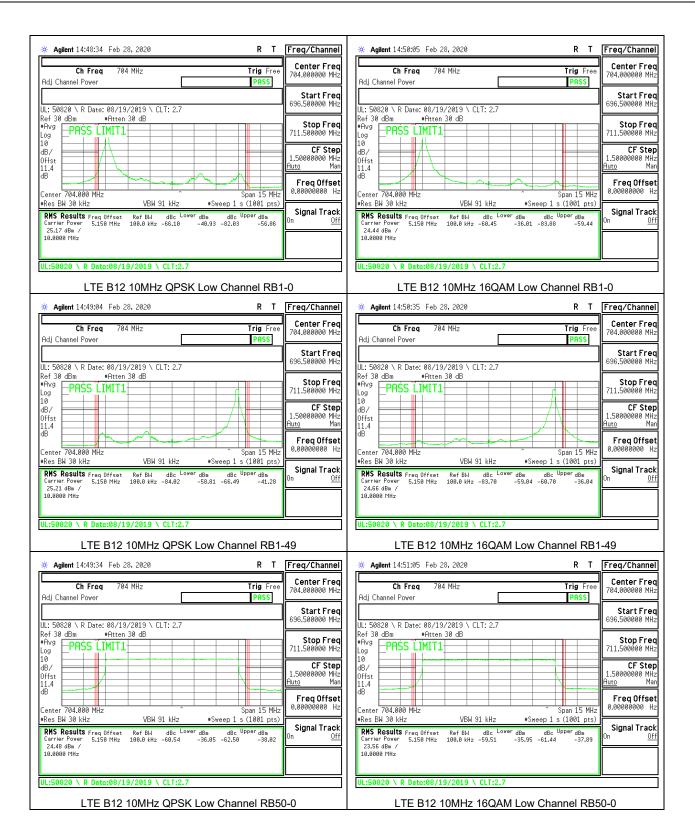
Page 119 of 317



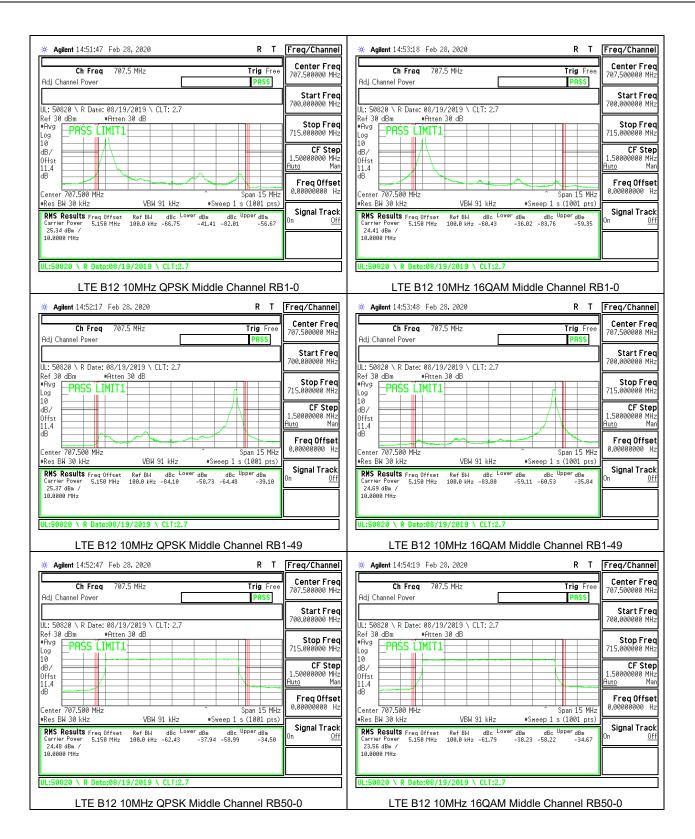
Page 120 of 317



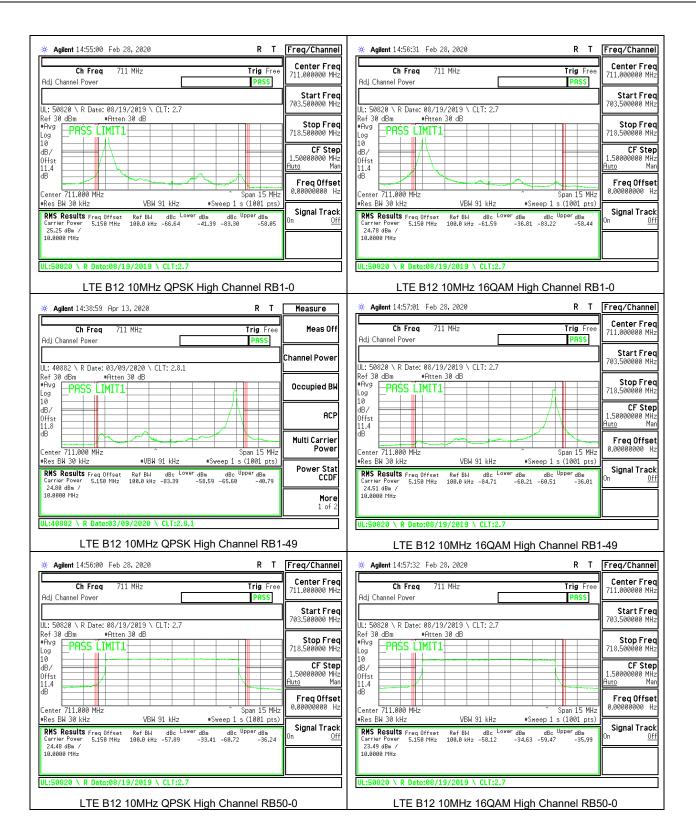
Page 121 of 317



Page 122 of 317



Page 123 of 317



Page 124 of 317

# 8.2.6. LTE BAND 13 ADJACENT CHANNEL POWER

### <u>LIMITS</u>

#### FCC: §27.53

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

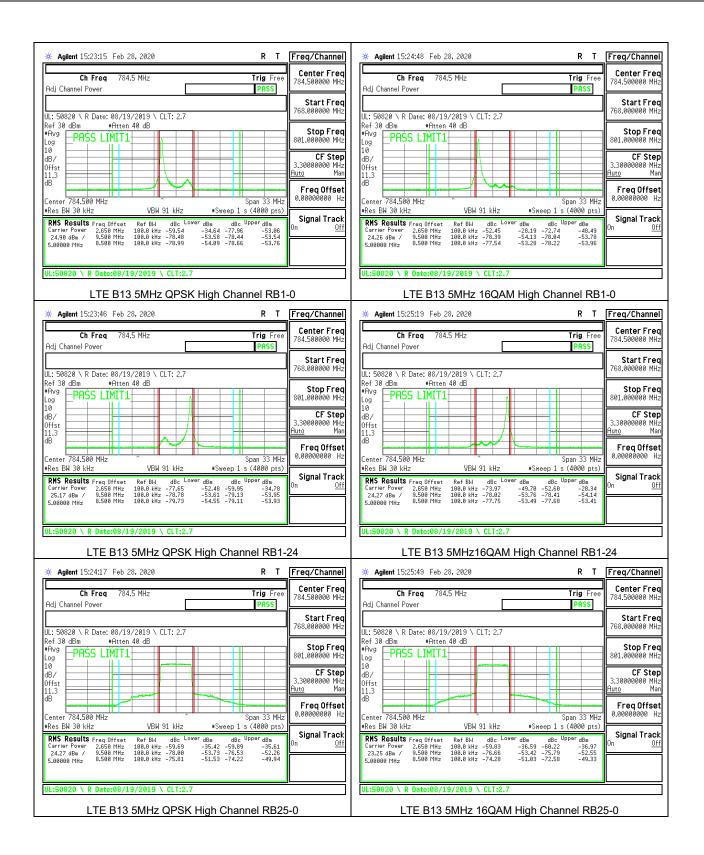
(6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

Page 125 of 317



Page 126 of 317



Page 127 of 317



Page 128 of 317

## 8.2.7. LTE BAND 14 ADJACENT CHANNEL POWER

#### <u>LIMITS</u>

FCC: §90.543 Emission Limitations.

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

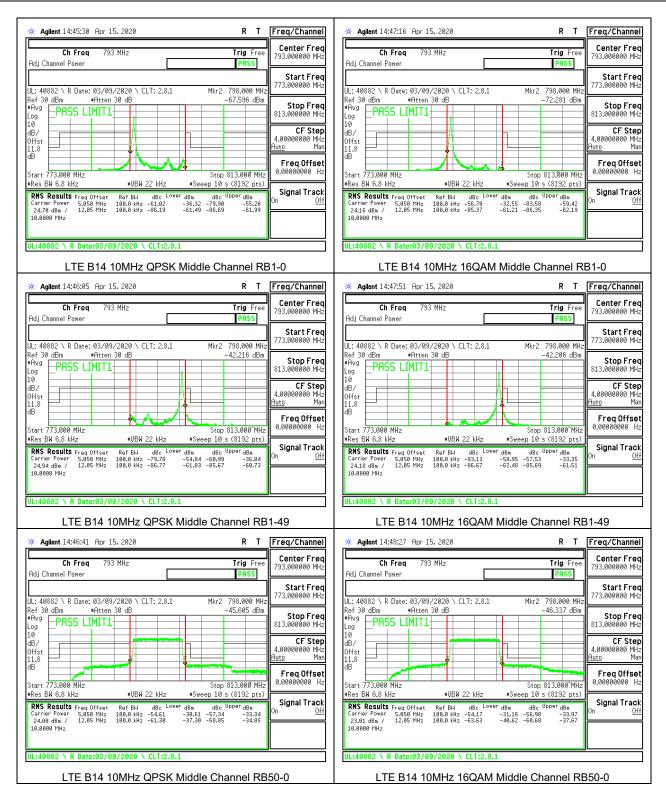
Page 129 of 317

* Agilent 14:35:22 Apr 15, 2020 R T Freq/Channel	* Agilent 14:37:07 Apr 15, 2020 R T Freq/Channel
Center Freq Ch Freq 793 MHz Trig Free 793.000000 MHz 793.000000 MHz	Ch Freq 793 MHz Trig Free 793.000000 MHz 793.000000 MHz
UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1 Mkr2 798.000 MHz 773.000000 MHz	UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1 Mkr2 798.000 MHz 773.000000 MHz
Ref 30 dBm         •Atten 30 dB         -74.567 dBm         Stop Freq           •Hvg Log         PRSS LIMIT1         813.000000 MHz         813.000000 MHz	Ref 30 dBm         •Atten 30 dB         -73.766 dBm         Stop Freq           •Aryo         PASS LIMIT1         813.000000 MHz         813.000000 MHz
dB/ 0ffst 4.0000000 MHz 11.8 Huto Man	10 dB/ Offst 1.8 CF Step 4.00000000 MHz Puto Man
dB Start 773.000 MHz Start 773.000 MHz Stop 813.000 MHZ	dB Start 773,000 MHz Start 773,000 MHz Start 773,000 MHz
Res BW 6.8 kHz         *VBW 22 kHz         *Sweep 10 s (8192 pts)           RHS Results Freq Offset         Ref BW         dBc         Lover dBm         dBc         Upper dBm           Carrier Power         5.658 MHz         100.0 kHz         -47.88         -23.09         -86.54         -61.75         On         Off           18.0808 MHz         12.05 MHz         100.0 kHz         -86.13         -61.34         -86.38         -61.60	•Res BW 6.8 kHz         •VBW 22 kHz         •Sweep 10 s (8192 pts)           RMS Results Freq Offset         Ref BW         dBc         Lower dBm         dBc         Upper dBm           Carrier Pover         S.958 MHz         100.0 kHz         -46.07         -21.99         -85.70         -61.62           24.08 dBm         /         12.05 MHz         100.0 kHz         -65.21         -61.13         -85.95         -61.87           18.0800 MHz         /         12.05 MHz         100.0 kHz         -61.21         -61.73         -61.87
U1:40882 \ R Date:03/09/2020 \ CLT:2.8.1	UL:40882 \ R Date:03/09/2020 \ CLT:2.8.1
LTE B14 5MHz QPS Low Channel RB1-0	LTE B14 5MHz 16QAM Low Channel RB1-0
* Agilent 14:36:32 Apr 15, 2020 R T Freq/Channel	* Agilent 14:38:18 Apr 15, 2020 R T Freq/Channel
Ch Freq 793 MHz Trig Free 793.000000 MHz 793.000000 MHz	Ch Freq 793 MHz Trig Free 793,000000 MHz 793,0000000 MHz
UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1 Mkr2 798.000 MHz	UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1 Mkr2 798.000 MHz
Ref 30 dBm         •Atten 30 dB         -54.195 dBm         Stop Freq           •Avg         PRSS LIMIT1         813.000000 MHz         813.000000 MHz           10         10         10         10         10	Ref 30 dBm         •Atten 30 dB         -51.738 dBm         Stop Freq           •Avg         PASS LIMIT1         813.000000 MHz         813.000000 MHz           10         0         0         0         0
dB/         CF Step           0ffst         4.0000000 MHz           11.8         4.000000 MHz	dB/ 0ffst
dB         Freq Offset           Start 773.000 MHz         Stop 813.000 MHz           •Res BW 6.8 kHz         •VBW 22 kHz         •Sweep 10 s (8192 pts)	dB         Freq Offset           Start 773.000 MHz         Stop 813.000 MHz           •Res BH 6.8 kHz         •VBH 22 kHz
•Res BH 6.8 kHz         •VBH 22 kHz         •Sweep 10 s (8192 pts)         Signal Track           RMS Results Freq Offset         Ref BH         dbc         Lower dbm         dbc         Upper dbm         0n         0ff           23.97 dBm /         12.05 MHz         100.0 kHz         -67.35         -43.38         -71.92         -47.95         0n         0ff	Res BH 6.8 kHz         #VBW 22 kHz         #Sweep 10 s (8192 pts)         Signal Track           RMS Results Freq Offset Ref BH         dBc Lower dBm         dBc Upper dBm         dBc Upper dBm           Carrier Pover 5,568 MHz         108.0 kHz - 54.33         -13.22 - 63.80         -48.77         -73.63         -58.62           18.8080 MHz         120.85 MHz         108.0 kHz - 68.78         -45.77         -73.63         -58.62
U1:40882 \ R Date:03/09/2020 \ CLT:2.8.1	UL:40882 \ R Date:03/09/2020 \ CLT:2.8.1
LTE B14 5MHz QPSK Low Channel RB25-0	LTE B14 5MHz 16QAM Low Channel RB25-0

Page 130 of 317

* Agilent 14:39:39 Apr 15, 2020 R T Freq/Channel	* Agilent 14:41:25 Apr 15, 2020 R T Freq/Channel
Ch Freq 793 MHz Trig Free Adj Channel Power PASS	Ch Freq 793 MHz Trig Free 793.000000 MHz 793.0000000 MHz 793.0000000 MHz
UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1 Mkr2 798.000 MHz 773.000000 MHz	UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1 Mkr2 798.000 MHz
Ref 30 dBm         •Atten 30 dB         -31.241 dBm         Stop Freq           •Rvg Log         PRSS LIMIT1         813.000000 MHz         813.000000 MHz	Ref 30 dBm         •Atten 30 dB         -29.470 dBm         Stop Freq           •Avg         PASS LIMIT1         813.000000 MHz         813.000000 MHz
dB/ Offst 11.8 CF Step 4.00000000 MHz Auto Man	dB/ 0ffst ← ← 11.8 ← ← Hute Man
dB Start 773.000 MHz Start 773.000 MHz Stop 813.000 MHz	dB Start 773.000 MHz Stop 813.000°MHz 0.00000000 Hz
•Res BW 6.8 kHz         •VBW 22 kHz         •Sweep 10 s (8192 pts) <b>FMS Results</b> Freq Offset         Ref BH         dBc. Lower dBm         dBc. Upper dBm           Carrier Prover 5,858 MHz         188.0 kHz - 86.78         -61.99         -48.09         -23.20           0n <u>Off</u> 10.0000 MHz         188.0 kHz - 87.08         -62.19         -61.40	•Res BW 6.8 kHz         •VBW 22 kHz         •Sweep 10 s (8192 pts) <b>RMS Results</b> Freq Offset Ref BW dBc Lower dBm Carrier Power 5,858 HHz 1808 kHz -85.82         -51.59 -46.38 -22.16 on <u>Off</u> Carrier Power 5,956 HHz 1808 kHz -85.62         -52.39 -85.79 -61.57 off.57 of
UL:40882 \ R Date:03/09/2020 \ CLT:2.8.1	UL:40882 \ R Date:03/09/2020 \ CLT:2.8.1
LTE B14 5MHz QPSK High Channel RB1-24	LTE B14 5MHz 16QAM High Channel RB1-24
# Agilent 14:40:14         Apr 15, 2020         R         T         Freq/Channel	** Agilent 14:42:00         Apr 15, 2020         R         T         Freq/Channel
* Agilent 14:40:14         Apr 15, 2020         R         T         Freq/Channel           Ch         Freq         793 MHz         Trig         Free         793.000000 MHz           Adj Channel Power         PRSS         1         793.000000 MHz         793.000000 MHz	
Ch Freq         793 MHz         Trig         Free         793.00000 MHz           Adj Channel Power         PASS         Start Freq         793.000000 MHz           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         773.000000 MHz	Agilent 14:42:00         Apr 15, 2020         R         T         Free/Channel           Ch         Freq         793         MHz         Trig         Free         793.000000         MHz           Adj         Ch         Freq         793         MHz         Trig         Free         793.000000         MHz           Adj         Ch         Freq         03.000000         MHz         Start Freq         793.000000         MHz           UL:         40882 \ R         Date:         03/09/2020 \ CLT:         2.8.1         Mkr2         793.0000         MHz
Ch Freq         793 MHz         Trig         Free           Adj Channel Power         PASS         793.000000 MHz           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           PASS         -38.610 dBm         Stop Freq         813.000000 MHz	Agilent 14:42:00         Apr 15, 2020         R         T         Freq/Channel           Ch         Freq         793         MHz         Trig         Free           Adj         Ch         Freq         793         MHz         Trig         Free           Adj         Ch         Freq         793         MHz         Trig         Free           Adj         Ch         Freq         793         MHz         Trig         Free           UL:         40882         N         Date:         03/09/2020         CLT:         2.8.1         Mkr2         798.000         MHz         773.000000         MHz           Ref         30         dB         -37.601         dBm         Stop Freq         813.000000         MHz           Log         PRSS         LIMIT1         Trig         Ref         813.000000         MHz
Ch Freq         793 MHz         Trig         Freq           Adj Channel Power         PASS         733.000000 MHz           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           VU: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         773.000000 MHz           PHvg         -38.610 dBm         *Atten 30 dB         -38.610 dBm           10         dB/         CF Step         4.0000000 MHz           10         CF Step         4.0000000 MHz         4.0000000 MHz	Agilent 14:42:00         Apr 15, 2020         R         T         Freq/Channel           Ch         Freq         793 MHz         Trig         Free         Center Freq           Adj Channel Power         PRSS         PRSS         Start Freq         733.000000 MHz           UL:         40882 \ R         Date:         03/09/2020 \ CLT:         2.8.1         Mkr2         798.000 MHz           PHvg         -37.601 dBm         -37.601 dBm         Stop Freq         813.000000 MHz           10         -37.601 dBm         CF Step         4.00000000 MHz         14.00000000 MHz           11.8
Ch Freq         793 MHz         Trig         Freq           Adj Channel Power         PASS         Center Freq         793.000000 MHz           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           VU: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         773.000000 MHz           VI: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           V0: 0400         PASS	Agilent 14:42:00         Apr 15, 2020         R         T         Freq/Channel           Ch         Freq         793 MHz         Trig         Free         Center Freq           Adj Channel Power         PRSS         PRSS         Start Freq         73.000000 MHz           UL:         40882 \ R         Date:         03/09/2020 \ CLT:         2.8.1         Mkr2         798.000 MHz           PRVs         -37.601 dBm         -37.601 dBm         Stop Freq         813.000000 MHz           PRS         LIMIT1         -37.601 dBm         Stop Freq           11.8         -37.000 MHz         Stop Freq         813.000000 MHz           Start 773.000 MHz         Stop 813.000 MHz         Freq Offset
Ch Freq         793 MHz         Trig         Freq           Adj Channel Power         PASS         Center Freq         793.000000 MHz           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           Ref 30 dBm         •Rtten 30 dB         -38.610 dBm         Stop Freq           PRSS         IMIT1         0         0         0           0ffst         0         0         0         0         0           0ffst         0         0         0         0         0         0           0ffst         0         0         0         0         0         0         0           0ffst         0	**         Agilent 14:42:00         Apr 15, 2020         R         T         Freq/Channel           Ch         Freq         793         MHz         Trig         Free         793.000000         MHz           Adj         Ch         Freq         793.000000         MHz         Trig         Free         793.000000         MHz           UL:         40882 \ R         Date:         03/09/2020 \ CLT:         2.8.1         Mkr2         798.000         MHz         Trig         Freq         773.000000         MHz           Ref         30         dB         -37.601         dBm         Stop Freq         813.0000000         MHz           Iog         D         Offsit         0
Ch Freq         793 MHz         Trig         Freq           Adj Channel Power         PASS         Center Freq         793.000000 MHz           Adj Channel Power         PASS         Start Freq         773.000000 MHz           UL: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         Start Freq           VU: 40882 \ R Date: 03/09/2020 \ CLT: 2.8.1         Mkr2 798.000 MHz         773.0000 MHz           Variation of the start of	**         Agilent 14:42:00         Apr 15, 2020         R         T         Freq/Channel           Ch         Freq         793         MHz         Trig         Free         793.000000         MHz           Adj         Channel Power         PASS         PASS         Start Freq         793.000000         MHz           UL:         40862 \ R         Date:         03/09/2020 \ CLT:         2.8.1         Mkr2         798.000 MHz         Start Freq           UL:         40862 \ R         Date:         03/09/2020 \ CLT:         2.8.1         Mkr2         798.000 MHz         Start Freq           Horg         PRSS         LIMIT1         -37.601 dBm         -37.601 dBm         Stop Freq         813.000000 MHz           B         GB         -37.001 MHz         Stop S13.000 MHz         Stop G13.0000 MHz         0.00000000 Hz

Page 131 of 317



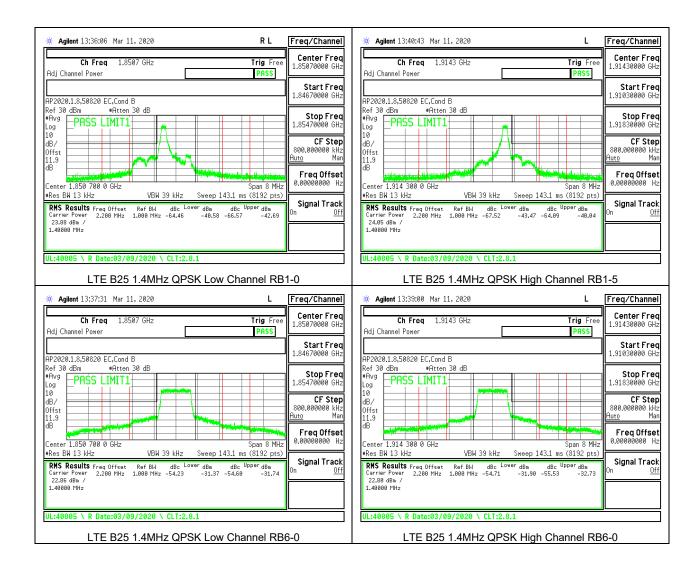
Page 132 of 317

### 8.2.8. LTE BAND 25 BANDEDGE

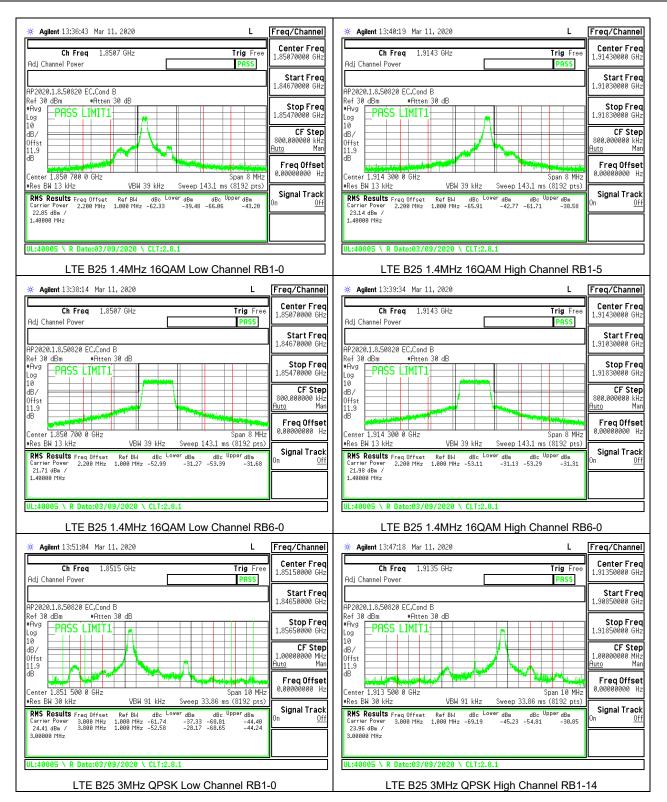
### LIMITS

#### FCC: §24.238

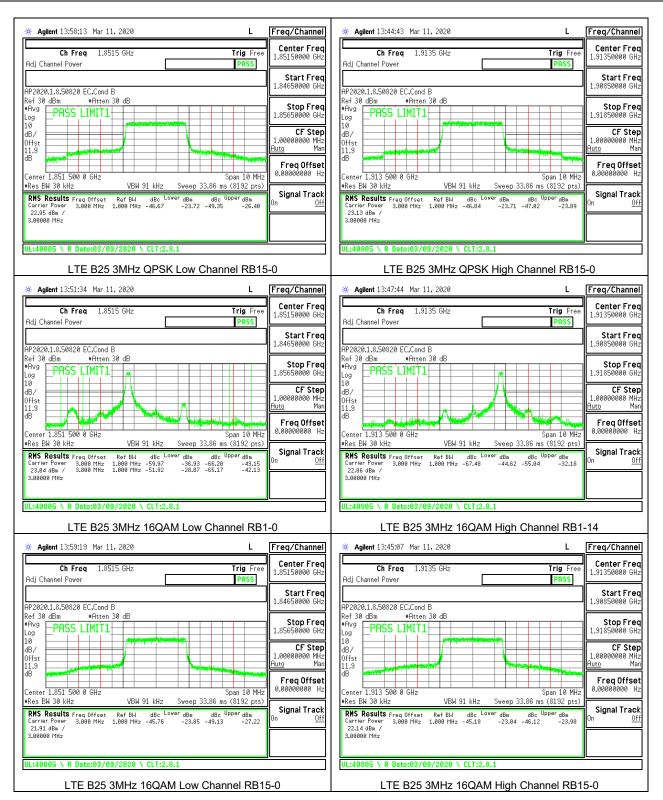
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P) dB$ .



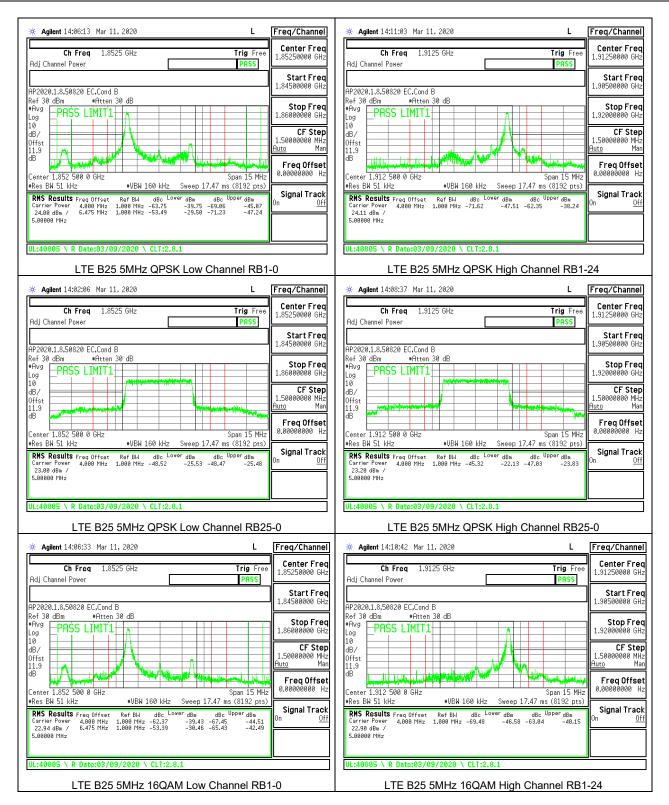
Page 133 of 317



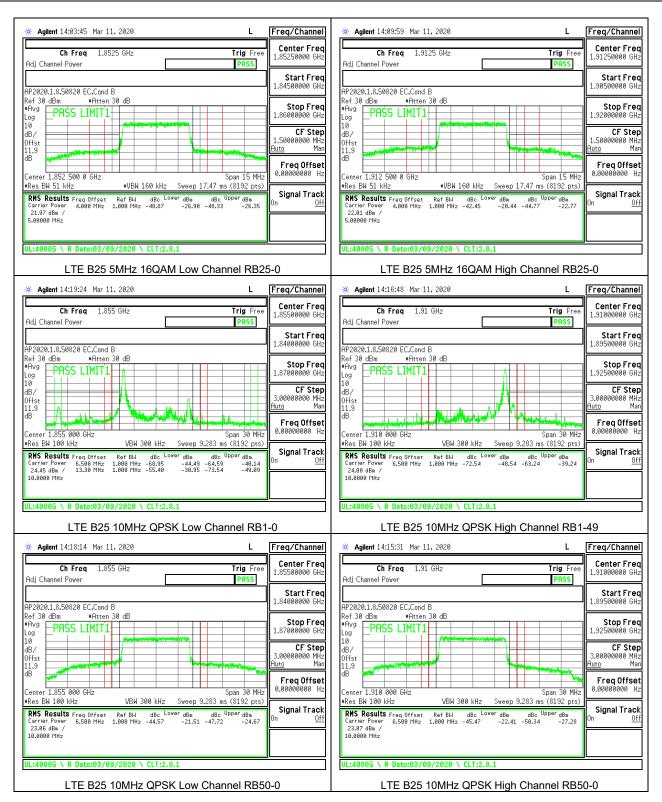
Page 134 of 317



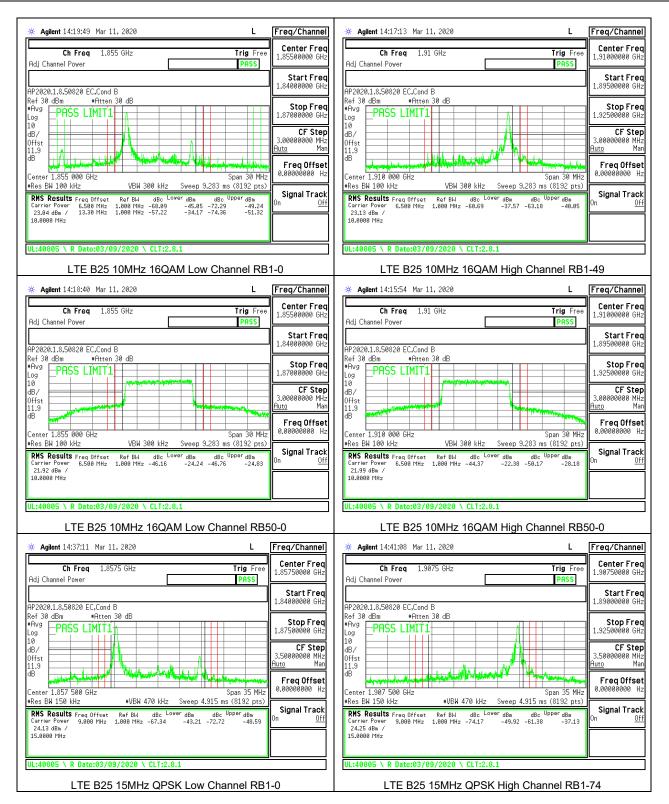
Page 135 of 317



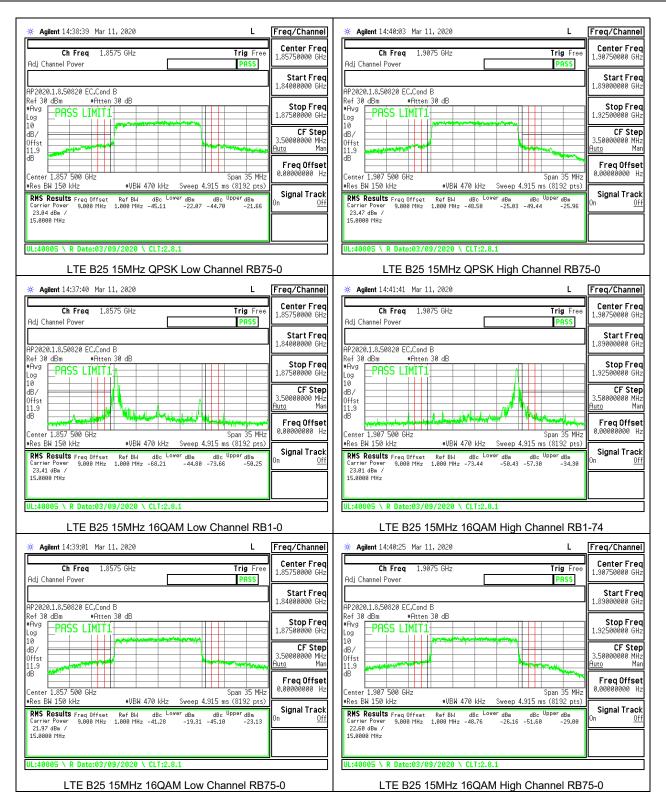
Page 136 of 317



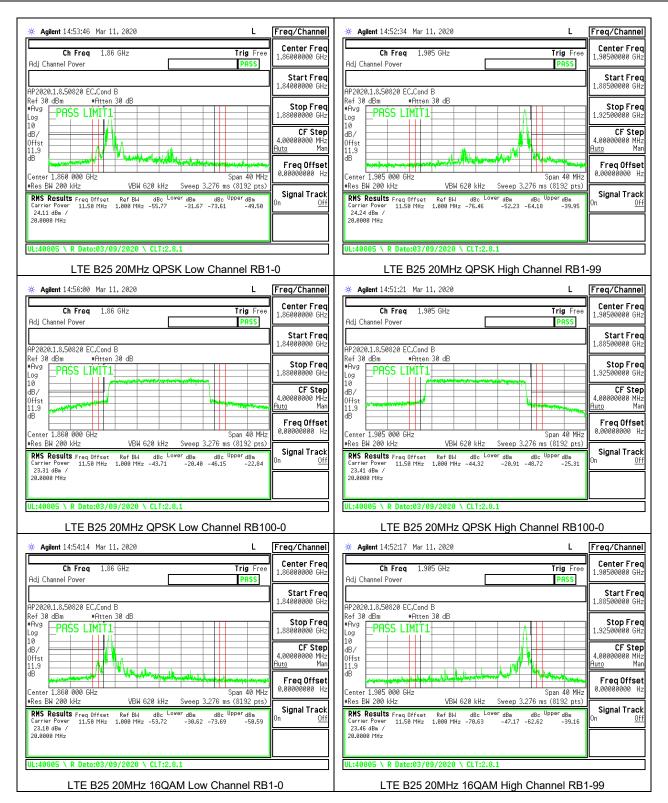
Page 137 of 317



Page 138 of 317



Page 139 of 317



Page 140 of 317

Ch Freq 1.86 GHz Trig Free 1.86	req/Channel         ** Agitent 14:51:35         Mar 11, 2020         L         Freq/Cha           Center Freq         Ch         Freq         1.905         GHz         Center Freq         1.90500000           G8000000 GHz         CH         Freq         1.905         GHz         Trig         Free         1.90500000
L AP2020.1.8,50820 EC,Cond B Ref 30 dBm = Atten 30 dB	Start Freq         Adj Channel Power         PRSS           Start Freq         Adj Channel Power         Start F           84000000 GHz         AP20201.8,50820 EC,Cond B         1.38500000           Stop Freq         eft 30 dBm         eftetn 30 dB
dB/ dB/ offst 11.9 dB dB dB dB dB dB dB dB dB dB	Freq Offset
Res BW 200 kHz VBW 620 kHz Sweep 3.276 ms (8192 pts)	00000000 Hz         Center 1.905 000 GHz         Span 40 MHz         0.0000000           Signal Track         •Res BW 200 kHz         VBW 620 kHz         Sweep 3.276 ms (8192 pts)         Signal Track           Off         FMS Results Freq Offset         Ref BW         dBc         Lover dBm         dBc Upper dBm         Signal Tr           Carrier Power         1.58 MHz         1.888 MHz         -47.81         -24.87         -47.64         -25.58           22.14 dBm /         28.8888 MHz         1         1.888 MHz         -47.81         -24.87         -47.64         -25.58
UL:40805 \ R Date:03/09/2020 \ CLT:2.8.1 LTE B25 20MHz 16QAM Low Channel RB100-(	-0 LTE B25 20MHz 16QAM High Channel RB100-0

Page 141 of 317

## 8.2.9. LTE BAND 26 EMISSION MASK (FCC PART 90S)

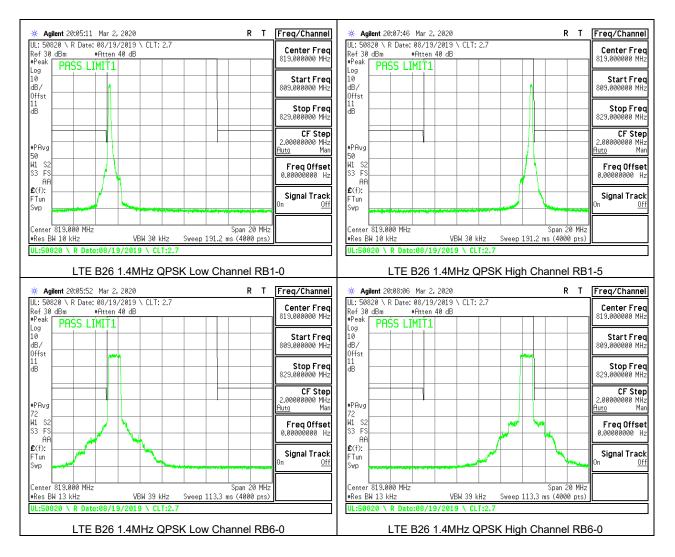
### **LIMITS**

FCC: §90.691 Emission mask requirements for EA-based systems.

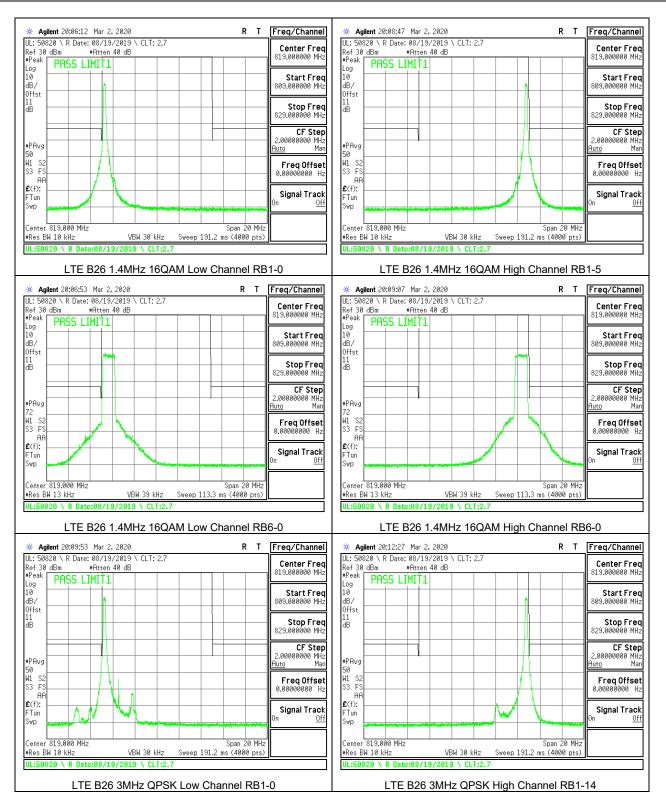
(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

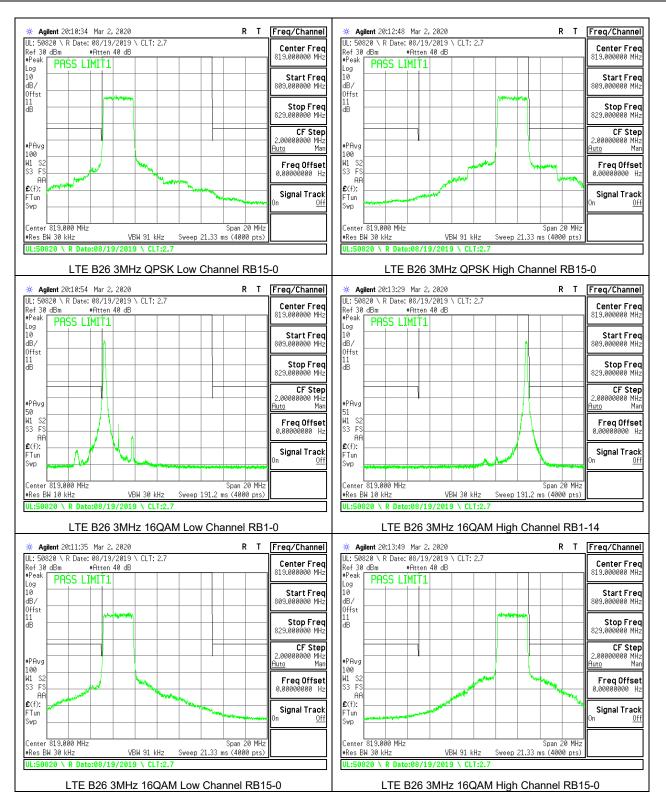
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.



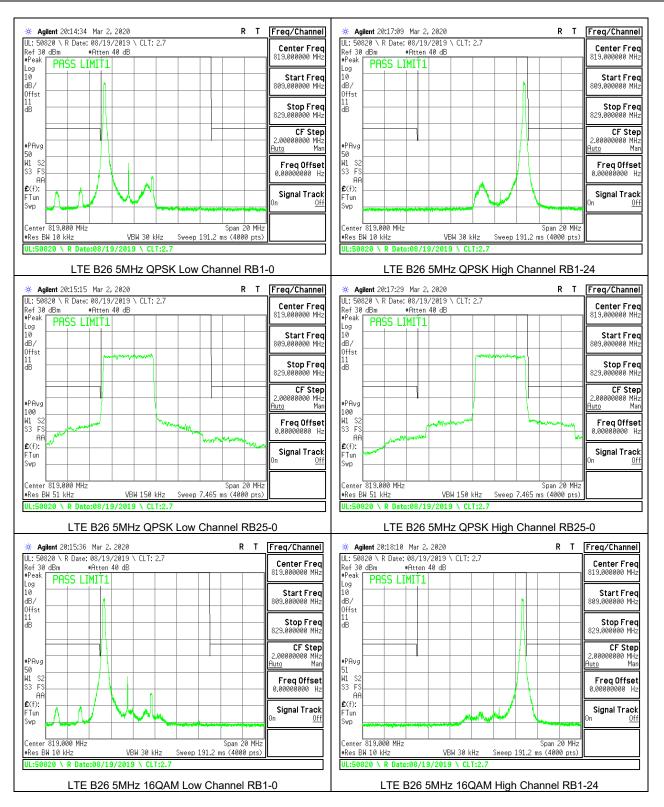
Page 142 of 317



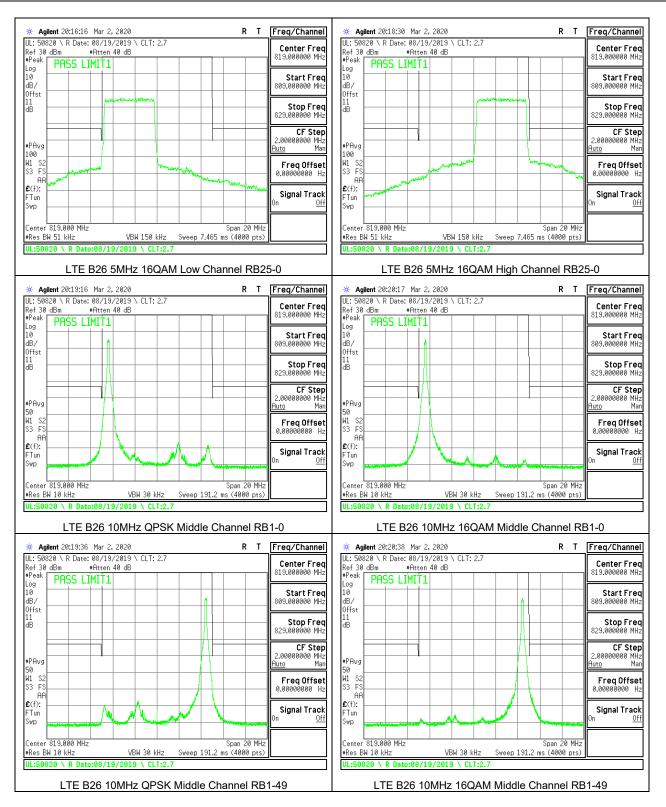
Page 143 of 317



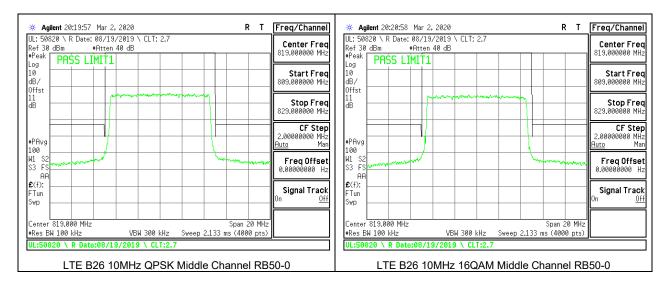
Page 144 of 317



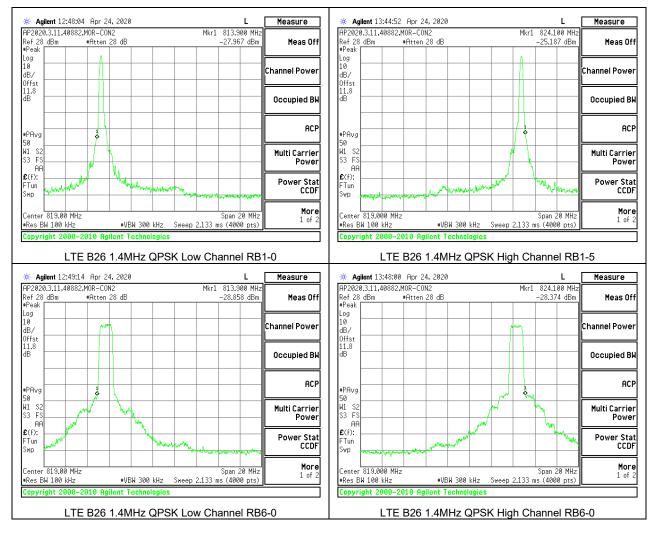
Page 145 of 317



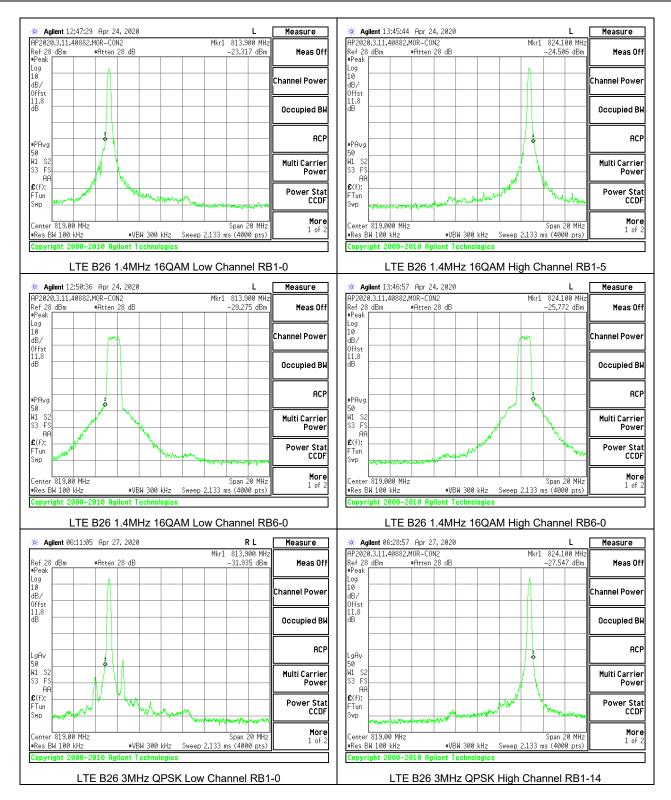
Page 146 of 317



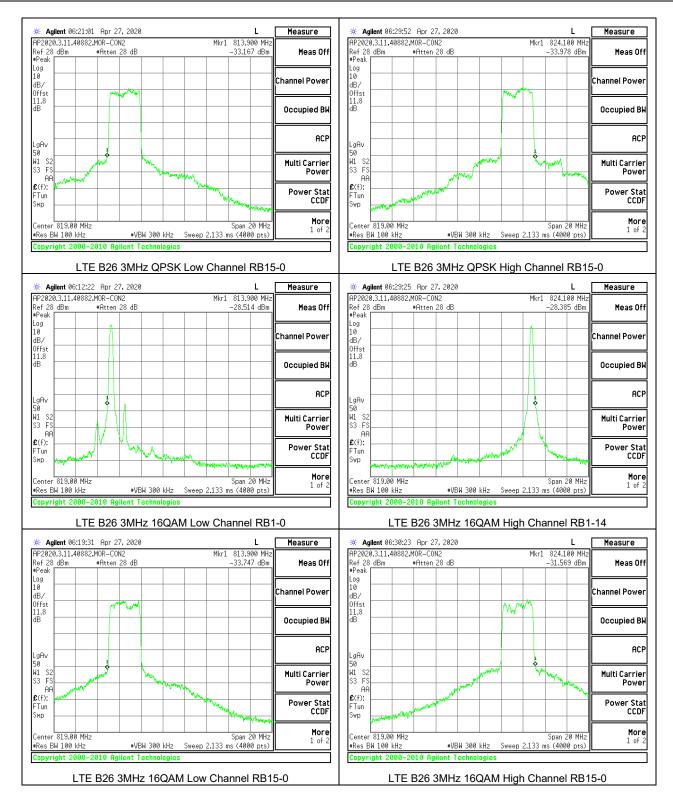
#### 100kHz away from edge



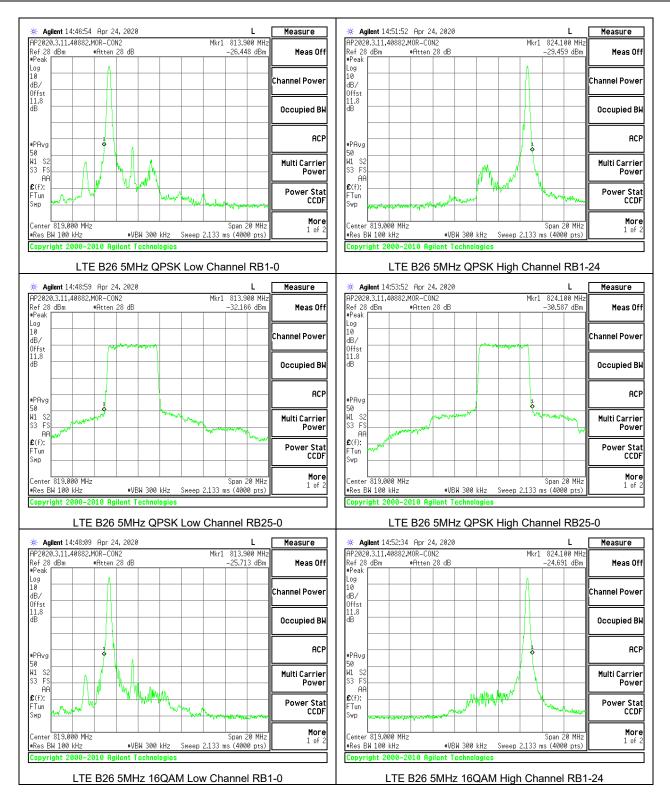
Page 147 of 317



Page 148 of 317



Page 149 of 317



Page 150 of 317