

# Report No.: ER/2016/90027 Page 176 of 335

### 30MHz~3GHz\_HSUPA\_B2\_LowCH9262-1852.4

3GHz~10GHz\_HSUPA\_B2\_MidCH9400-1880

			Keyeght Spectrom Analyzer - Silve					Keyeight Spectreen Analyzer - Silvept SA
Frequency	Augly surro (97:11:86 PM oct 03, 2514 Avg Type: Log-Pwr TRACE 1 2014 Type: Log-Pwr Det 03, 2514		Center Freq 11.5000	Frequency		Avg Type: Log-Pwr	Trig: Free Run #Atten: 40 dB	RL NJ SNO DC enter Freq 1.515000000 GHz PNO: Fast C IF6ain:Low
Auto Tune	Mkr1 19.065 GHz -20.25 dBm	dB IBm	Ref Offset 14 10 dB/div Ref 40.00 d	Auto Tune	Mkr1 1,850 6 GHz 21.97 dBm	Mk		Ref Offset 14 dB
Center Freq 11.500000000 GHz				Center Freq 1.515000000 GHz		•1		10
Start Freq 3.000000000 GHz			-1010	Start Freq 30,000000 MHz	phi-troomy			ià m n
Stop Freq 20.000000000 GHz			-10.0	Stop Freq 3.000000000 GHz		an a	222 - 22 - 22 - 22 - 22 - 22 - 22 - 22	
CF Step 1.70000000 GHz Auto Man	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz	CF Step 297.000000 MHz Auto Man	Stop 3.000 GHz p 2.000 ms (1001 pts)	Sweep 2.	3W 1.0 MHz	ant 0.030 GHz tes BW 1.0 MHz #VB1 R MORE TRC SQL X
Freq Offset 0 Hz		19.065 GHz20.25 dBm	1 N 1 T	Freq Offset 0 Hz			21.97 dBm	N 1 f 1.850 6 GHz
Scale Type			9	Scale Type				
	ETÁTUS		MISG		rivitus	STATUS	-	6

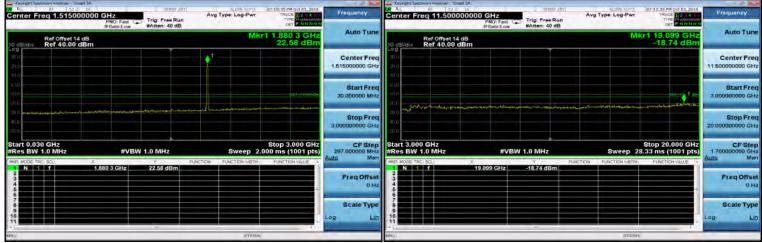
#### 3GHz~10GHz\_HSUPA\_B2\_LowCH9262-1852.4

#### Ava Type: Los Avg Type: Lo 0000 GHz 000 GHz Trig: Free Run Trig: Free Run Auto Tur Auto Tur Ref Offset 14 dB Ref 40.00 dBm Ref Offset 14 dB Ref 40.00 dBm Center Fre Center Fre ٠ Start Fre Start Fre Stop Fre Stop Fre Stop 20.000 G rt 3.000 GHz CF Step rt 0.030 GHz s BW 1.0 MH Stop 3.000 G 2.000 ms (1001 p CF Step #VBW 1.0 M 19.167 GH 1.907 0 0 -19.13 22.42 Freq Offse Freq Offs Тур Scale Type L 1.1

#### 30MHz~3GHz\_HSUPA\_B2\_MidCH9400-1880

#### 3GHz~10GHz\_HSUPA\_B2\_HighCH9538-1907.6

30MHz~3GHz\_HSUPA\_B2\_HighCH9538-1907.6



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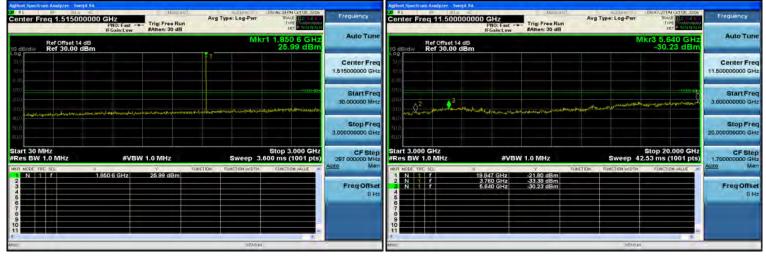
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# 30MHz~3GHz\_Band2 1.4MHz\_QPSK 1 0\_LowCH18607-1850.7

#### 3GHz~10GHz\_Band2 1.4MHz\_QPSK 1 0\_MidCH18900-1880



# 3GHz~10GHz Band2 1.4MHz QPSK 1 0 LowCH18607-1850.7



#### 30MHz~3GHz\_Band2 1.4MHz\_QPSK 1 0\_MidCH18900-1880

### 30MHz~3GHz\_Band2 1.4MHz\_QPSK 1 0\_HighCH19193-1909.3



#### 3GHz~10GHz\_Band2 1.4MHz\_QPSK 1 0\_HighCH19193-1909.3



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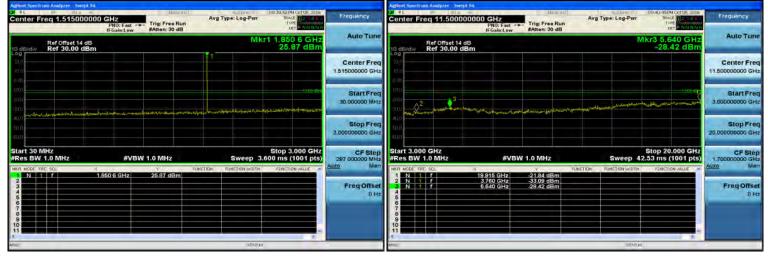
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#### 30MHz~3GHz\_Band2 3MHz\_QPSK 1 0\_LowCH18615-1851.5

#### 3GHz~10GHz\_Band2 3MHz\_QPSK 1 0\_MidCH18900-1880



# 3GHz~10GHz Band2 3MHz QPSK 1 0 LowCH18615-1851.5

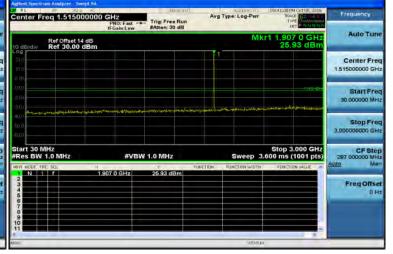
#### Frequency Freg 11.500000000 GHz Avg Type: Log-P Trig: Free Run Auto Tur Ref Offset 14 dB Ref 30.00 dBn 10 64 Center Free StartFree 3.000000000 GH Stop Fre 20 0000 CF Step Stop 20.00 M 1 0 MH 1 7000 20.52 d 32.58 d 9.830 GHz 3.703 GHz 6.555 GHz FreqOffse DH

#### 30MHz~3GHz\_Band2 3MHz\_QPSK 1 0\_MidCH18900-1880

Ref Offset 14 dB Ref 30.00 dBm

30 MHz

# 30MHz~3GHz\_Band2 3MHz\_QPSK 1 0\_HighCH19185-1908.5



3GHz~10GHz\_Band2 3MHz\_QPSK 1 0\_HighCH19185-1908.5



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#### 30MHz~3GHz\_Band2 5MHz\_QPSK 1 0\_LowCH18625-1852.5

#### 3GHz~10GHz\_Band2 5MHz\_QPSK 1 0\_MidCH18900-1880

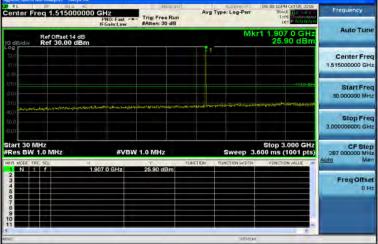


# 3GHz~10GHz Band2 5MHz QPSK 1 0 LowCH18625-1852.5



#### 30MHz~3GHz\_Band2 5MHz\_QPSK 1 0\_MidCH18900-1880

#### 30MHz~3GHz\_Band2 5MHz\_QPSK 1 0\_HighCH19175-1907.5



#### RE BOOK THE PROFESSION OF THE Frequency Avg Type: Log-P Frequency

3GHz~10GHz\_Band2 5MHz\_QPSK 1 0\_HighCH19175-1907.5



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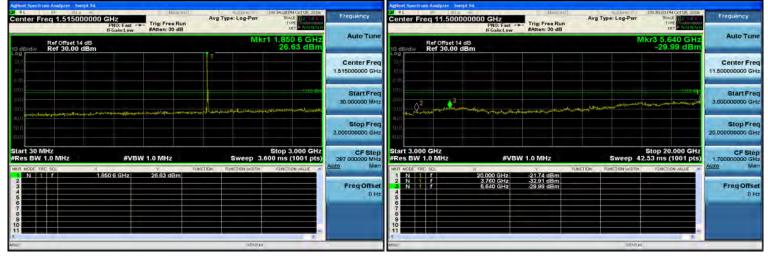
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# 30MHz~3GHz\_Band2 10MHz\_QPSK 1 0\_LowCH18650-1855

#### 3GHz~10GHz\_Band2 10MHz\_QPSK 1 0\_MidCH18900-1880

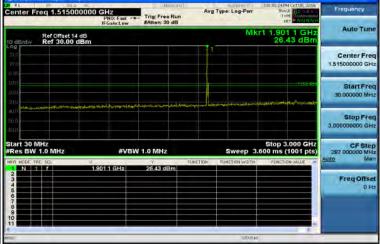


# 3GHz~10GHz Band2 10MHz QPSK 1 0 LowCH18650-1855



#### 30MHz~3GHz\_Band2 10MHz\_QPSK 1 0\_MidCH18900-1880

# 30MHz~3GHz\_Band2 10MHz\_QPSK 1 0\_HighCH19150-1905



# 3GHz~10GHz\_Band2 10MHz\_QPSK 1 0\_HighCH19150-1905



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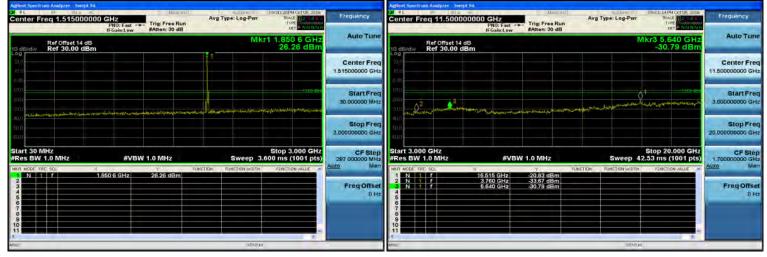
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# 30MHz~3GHz\_Band2 15MHz\_QPSK 1 0\_LowCH18675-1857.5

#### 3GHz~10GHz\_Band2 15MHz\_QPSK 1 0\_MidCH18900-1880

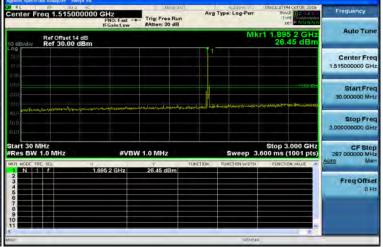


# 3GHz~10GHz\_Band2 15MHz\_QPSK 1 0\_LowCH18675-1857.5



#### 30MHz~3GHz\_Band2 15MHz\_QPSK 1 0\_MidCH18900-1880

# 30MHz~3GHz\_Band2 15MHz\_QPSK 1 0\_HighCH19125-1902.5



#### 3GHz~10GHz\_Band2 15MHz\_QPSK 1 0\_HighCH19125-1902.5



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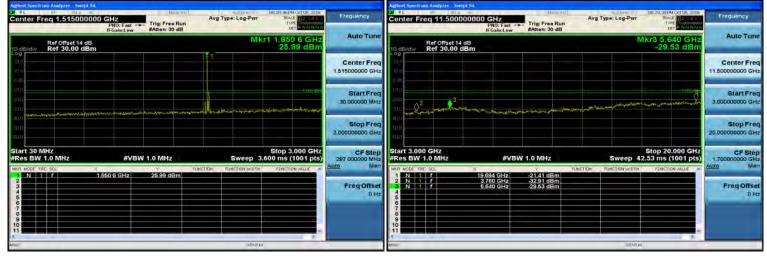
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# 30MHz~3GHz\_Band2 20MHz\_QPSK 1 0\_LowCH18700-1860

#### 3GHz~10GHz\_Band2 20MHz\_QPSK 1 0\_MidCH18900-1880

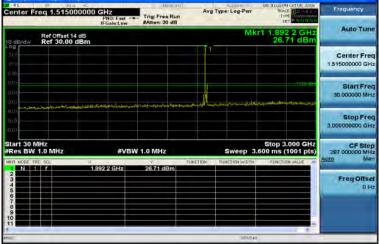


# 3GHz~10GHz\_Band2 20MHz\_QPSK 1 0\_LowCH18700-1860



#### 30MHz~3GHz\_Band2 20MHz\_QPSK 1 0\_MidCH18900-1880

# 30MHz~3GHz\_Band2 20MHz\_QPSK 1 0\_HighCH19100-1900



#### 3GHz~10GHz\_Band2 20MHz\_QPSK 1 0\_HighCH19100-1900



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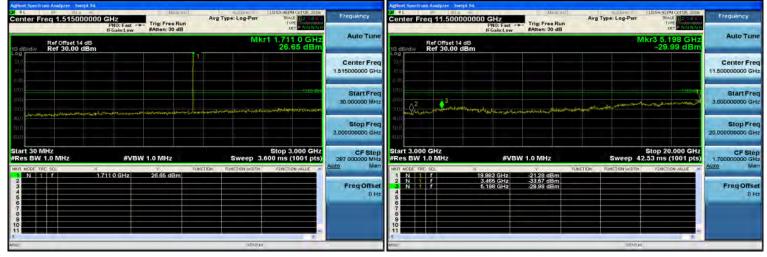
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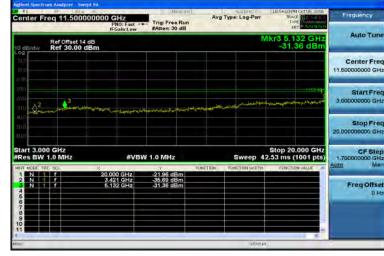


# 30MHz~3GHz\_Band4 1.4MHz\_QPSK 1 0\_LowCH19957-1710.7

#### 3GHz~10GHz\_Band4 1.4MHz\_QPSK 1 0\_MidCH20175-1732.5

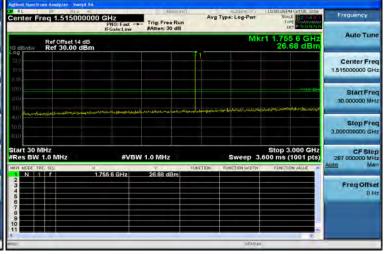


# 3GHz~10GHz Band4 1.4MHz QPSK 1 0 LowCH19957-1710.7



# 30MHz~3GHz\_Band4 1.4MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band4 1.4MHz\_QPSK 1 0\_HighCH20393-1754.3



#### 3GHz~10GHz\_Band4 1.4MHz\_QPSK 1 0\_HighCH20393-1754.3



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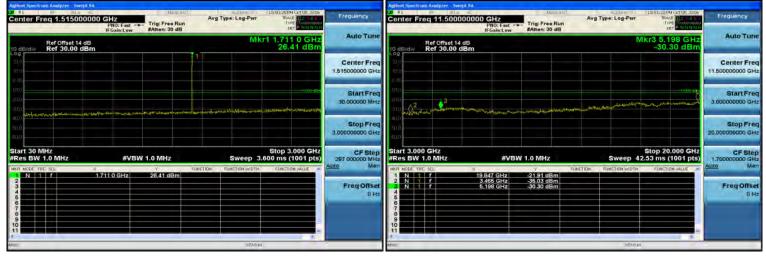
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#### 30MHz~3GHz\_Band4 3MHz\_QPSK 1 0\_LowCH19965-1711.5

#### 3GHz~10GHz\_Band4 3MHz\_QPSK 1 0\_MidCH20175-1732.5

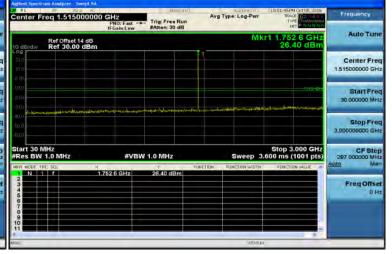


# 3GHz~10GHz\_Band4 3MHz\_QPSK 1 0\_LowCH19965-1711.5

#### Frequency Freq 11.500000000 GHz Trig: Free Run Auto Tur Ref Offset 14 dB Ref 30.00 dBn 5.135 G 31.91 dE Center Free StartFree 3.000000000 GH Stop Fre 20 00000 CF Step Stop 20.00 MI O MH 1 7000 7.229 GHz 3.423 GHz 5.136 GHz 21.74 dE 35.25 dE 31.91 dE FreqOffse DH

#### 30MHz~3GHz\_Band4 3MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band4 3MHz\_QPSK 1 0\_HighCH20385-1753.5



#### 3GHz~10GHz\_Band4 3MHz\_QPSK 1 0\_HighCH20385-1753.5



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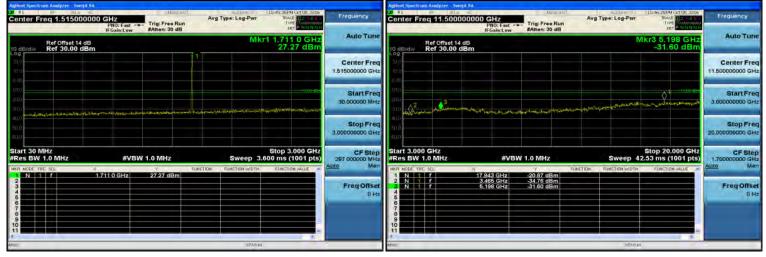
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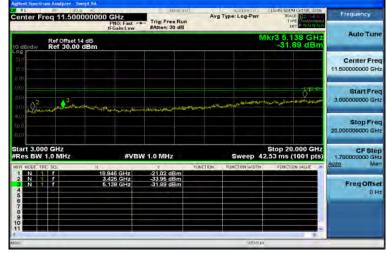


# 30MHz~3GHz\_Band4 5MHz\_QPSK 1 0\_LowCH19975-1712.5

#### 3GHz~10GHz\_Band4 5MHz\_QPSK 1 0\_MidCH20175-1732.5

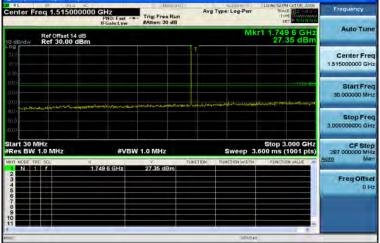


# 3GHz~10GHz\_Band4 5MHz\_QPSK 1 0\_LowCH19975-1712.5

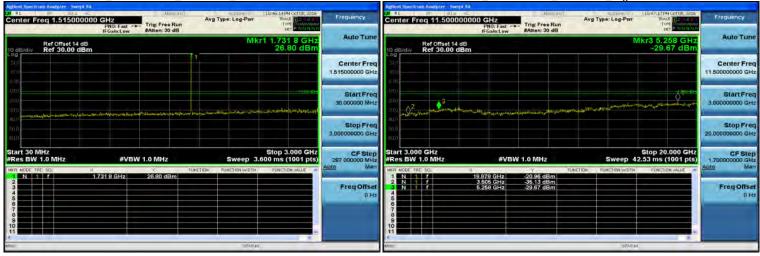


#### 30MHz~3GHz\_Band4 5MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band4 5MHz\_QPSK 1 0\_HighCH20375-1752.5



#### 3GHz~10GHz\_Band4 5MHz\_QPSK 1 0\_HighCH20375-1752.5



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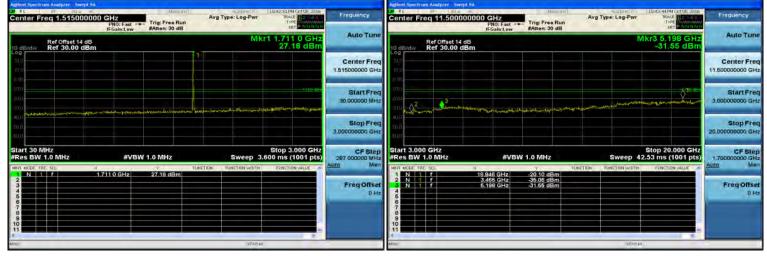
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# 30MHz~3GHz\_Band4 10MHz\_QPSK 1 0\_LowCH20000-1715

#### 3GHz~10GHz\_Band4 10MHz\_QPSK 1 0\_MidCH20175-1732.5

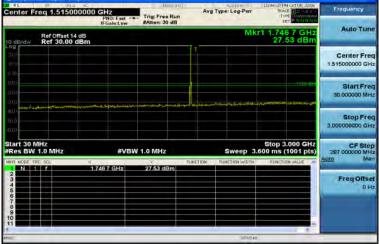


# 3GHz~10GHz\_Band4 10MHz\_QPSK 1 0\_LowCH20000-1715

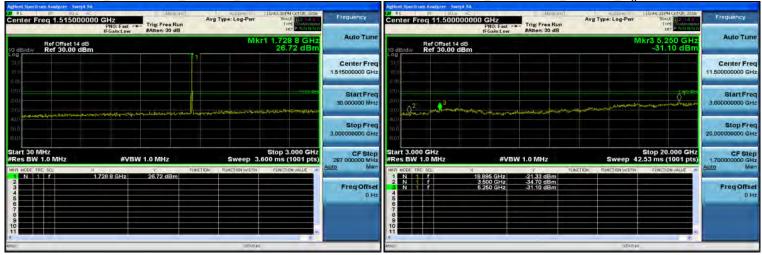


#### 30MHz~3GHz\_Band4 10MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band4 10MHz\_QPSK 1 0\_HighCH20350-1750



#### 3GHz~10GHz\_Band4 10MHz\_QPSK 1 0\_HighCH20350-1750



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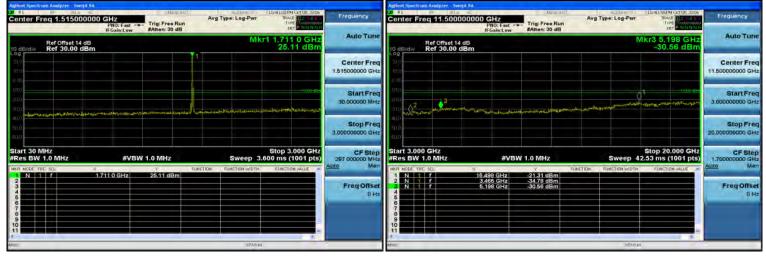
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# 30MHz~3GHz\_Band4 15MHz\_QPSK 1 0\_LowCH20025-1717.5

#### 3GHz~10GHz\_Band4 15MHz\_QPSK 1 0\_MidCH20175-1732.5

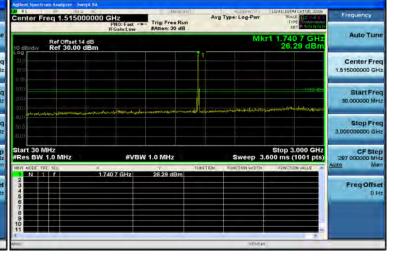


# 3GHz~10GHz Band4 15MHz QPSK 1 0 LowCH20025-1717.5

#### Frequency Freg 11.500 00000 GHz Trig: Free Run Auto Tur 5.153 G 30.16 dB Ref Offset 14 dB Ref 30.00 dBn Center Free StartFree 3.000000000 GH Stop Fre 20 0000 Stop 20.00 CF Step M 1 0 MH 1 7000 9.915 GHz 3.435 GHz 5.153 GHz 21.51 di 36.14 di 30.16 di FreqOffse DH

#### 30MHz~3GHz\_Band4 15MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band4 15MHz\_QPSK 1 0\_HighCH20325-1747.5



#### 3GHz~10GHz\_Band4 15MHz\_QPSK 1 0\_HighCH20325-1747.5



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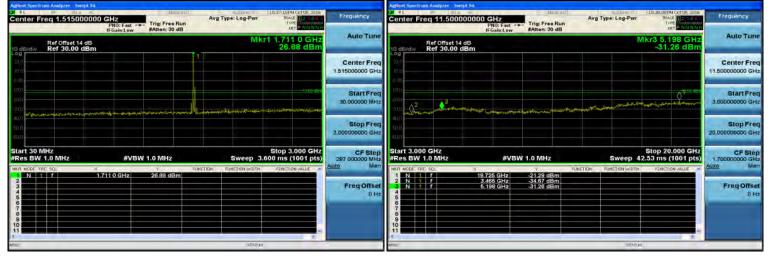
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# 30MHz~3GHz\_Band4 20MHz\_QPSK 1 0\_LowCH20050-1720

#### 3GHz~10GHz\_Band4 20MHz\_QPSK 1 0\_MidCH20175-1732.5

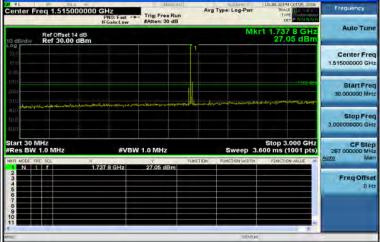


# 3GHz~10GHz Band4 20MHz QPSK 1 0 LowCH20050-1720



#### 30MHz~3GHz\_Band4 20MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band4 20MHz\_QPSK 1 0\_HighCH20300-1745



#### 3GHz~10GHz\_Band4 20MHz\_QPSK 1 0\_HighCH20300-1745



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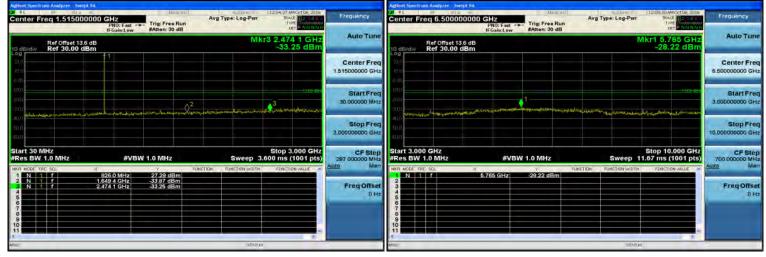
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#### 30MHz~3GHz\_Band5 1.4MHz\_QPSK 1 0\_LowCH20407-824.7

#### 3GHz~10GHz\_Band5 1.4MHz\_QPSK 1 0\_MidCH20525-836.5



# 3GHz~10GHz\_Band5 1.4MHz\_QPSK 1 0\_LowCH20407-824.7

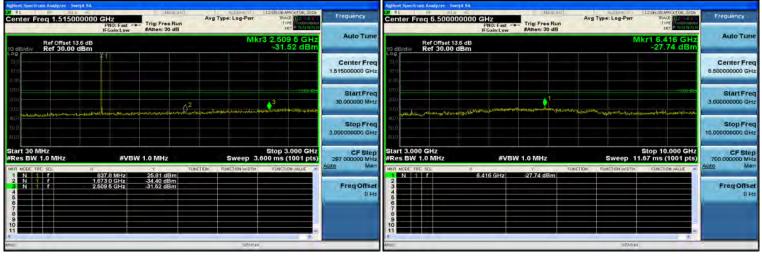


#### 30MHz~3GHz\_Band5 1.4MHz\_QPSK 1 0\_MidCH20525-836.5

# 30MHz~3GHz\_Band5 1.4MHz\_QPSK 1 0\_HighCH20643-848.3



#### 3GHz~10GHz\_Band5 1.4MHz\_QPSK 1 0\_HighCH20643-848.3



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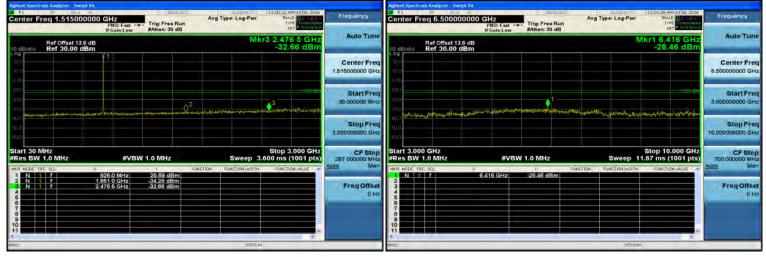
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#### 30MHz~3GHz\_Band5 3MHz\_QPSK 1 0\_LowCH20415-825.5

#### 3GHz~10GHz\_Band5 3MHz\_QPSK 1 0\_MidCH20525-836.5



# 3GHz~10GHz\_Band5 3MHz\_QPSK 1 0\_LowCH20415-825.5

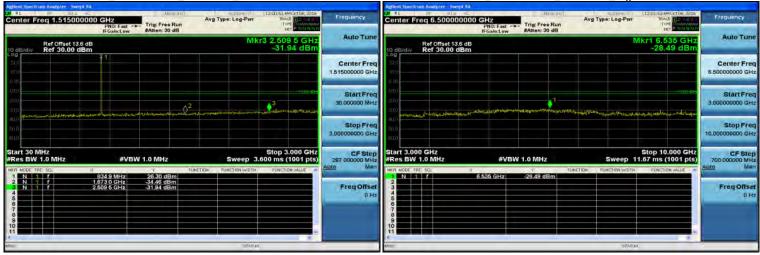
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#### 30MHz~3GHz\_Band5 3MHz\_QPSK 1 0\_MidCH20525-836.5

# 30MHz~3GHz\_Band5 3MHz\_QPSK 1 0\_HighCH20635-847.5



#### 3GHz~10GHz\_Band5 3MHz\_QPSK 1 0\_HighCH20635-847.5



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#### 30MHz~3GHz\_Band5 5MHz\_QPSK 1 0\_LowCH20425-826.5

#### 3GHz~10GHz\_Band5 5MHz\_QPSK 1 0\_MidCH20525-836.5



# 3GHz~10GHz\_Band5 5MHz\_QPSK 1 0\_LowCH20425-826.5

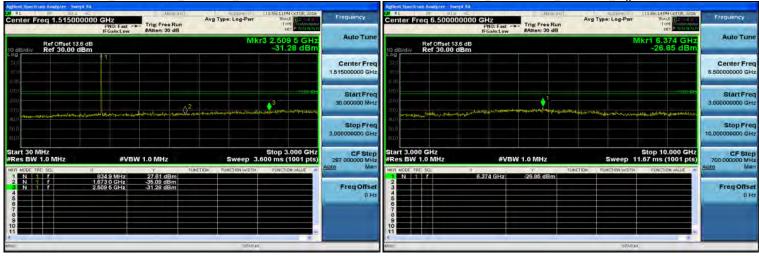
# Mile Market State State The State State Frequency Provide State Provide State

#### 30MHz~3GHz\_Band5 5MHz\_QPSK 1 0\_MidCH20525-836.5

# 30MHz~3GHz\_Band5 5MHz\_QPSK 1 0\_HighCH20625-846.5



#### 3GHz~10GHz\_Band5 5MHz\_QPSK 1 0\_HighCH20625-846.5



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#### 30MHz~3GHz\_Band5 10MHz\_QPSK 1 0\_LowCH20450-829

# 3GHz~10GHz\_Band5 10MHz\_QPSK 1 0\_MidCH20525-836.5

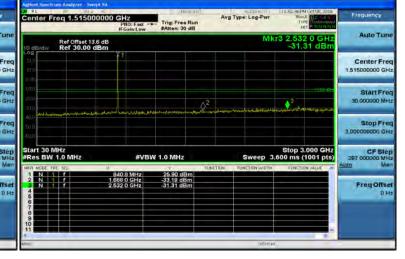


# 3GHz~10GHz\_Band5 10MHz\_QPSK 1 0\_LowCH20450-829

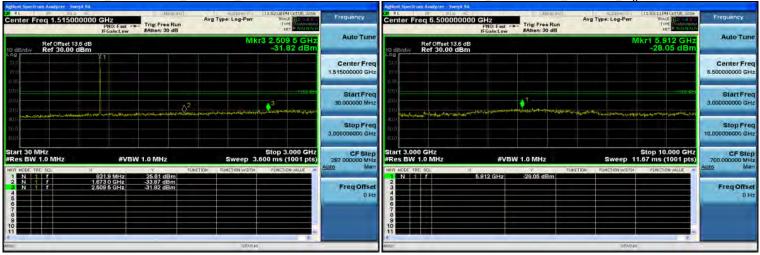
#### Center Freq 6.50000000 GHz Prio: Fax Trig: Free Run Mater: 30 dB Avg Type: Log-Fwr Prio: Fax Trig: Free Run Prio: Fax Frequency Auto Ture Conter Freq 6.50000000 GHz Trig: Free Run Mater: 30 dB Mkr1 6.451 GHz Center Free 6.5000000 GHz Conter Free 0.00 Galdin Center Free 0.00 GHz Center Free 0.00 Conter Free 0.00 Galdin Center Free 0.00 GHz Center Free 0.00 Conter Free 0.00 Galdin Center Free 0.00 GHZ Center Free 0.00 Conter Free 0.00 GHZ Frequency Center Free 0.000000 GHZ Conter Free 0.00 GHZ Frequency Center Free 0.000000 GHZ Conter Free 0.00 GHZ Frequency Center Free 0.000000 GHZ Conter Free 0.00 GHZ Frequency Stop Free 10.0000000 GHZ Conter Free 0.00 Stop 10.000 GHZ Freq Offset 0.00 Trans T G.451 GHZ Stop 10.000 Free 0.000000 GHZ T G.451 GHZ Stop 10.000 Free 0.000000 GHZ Freq Offset 0.00000000 GHZ T G.451 GHZ Stop 10.000 Free 0.0000000 GHZ Freq Offset 0.00000000 GHZ T G.451 GHZ Stop 10.000 Free 0.000000 GHZ Freq Offset 0.00000000 GHZ T G.451 GHZ Stop 10.000 Free 0.0000000 GHZ

#### 30MHz~3GHz\_Band5 10MHz\_QPSK 1 0\_MidCH20525-836.5

# 30MHz~3GHz\_Band5 10MHz\_QPSK 1 0\_HighCH20600-844



#### 3GHz~10GHz\_Band5 10MHz\_QPSK 1 0\_HighCH20600-844



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#### 30MHz~3GHz\_Band7 5MHz\_QPSK 1 0\_LowCH20775-2502.5

#### 3GHz~10GHz\_Band7 5MHz\_QPSK 1 0\_MidCH21100-2535

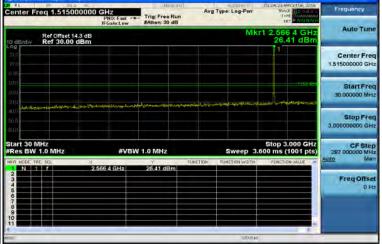


# 3GHz~10GHz\_Band7 5MHz\_QPSK 1 0\_LowCH20775-2502.5



#### 30MHz~3GHz\_Band7 5MHz\_QPSK 1 0\_MidCH21100-2535

# 30MHz~3GHz\_Band7 5MHz\_QPSK 1 0\_HighCH21425-2567.5



#### 3GHz~10GHz\_Band7 5MHz\_QPSK 1 0\_HighCH21425-2567.5



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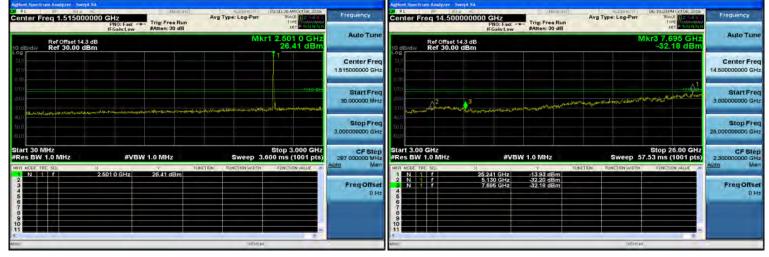
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#### 30MHz~3GHz\_Band7 10MHz\_QPSK 1 0\_LowCH20800-2505

#### 3GHz~10GHz\_Band7 10MHz\_QPSK 1 0\_MidCH21100-2535

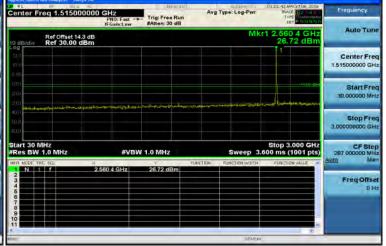


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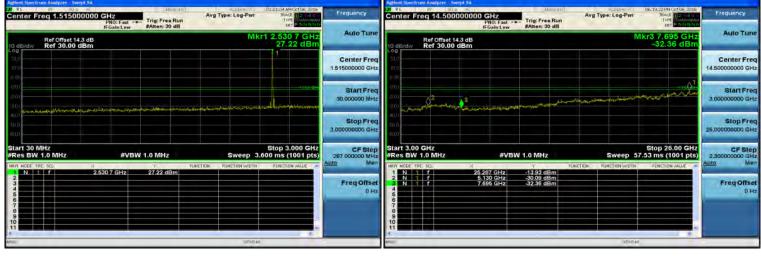


# 30MHz~3GHz\_Band7 10MHz\_QPSK 1 0\_MidCH21100-2535

# 30MHz~3GHz\_Band7 10MHz\_QPSK 1 0\_HighCH21400-2565



# 3GHz~10GHz\_Band7 10MHz\_QPSK 1 0\_HighCH21400-2565



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#### 30MHz~3GHz\_Band7 15MHz\_QPSK 1 0\_LowCH20825-2507.5

#### 3GHz~10GHz\_Band7 15MHz\_QPSK 1 0\_MidCH20175-1732.5

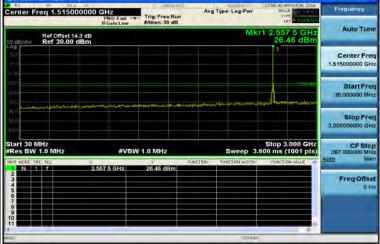


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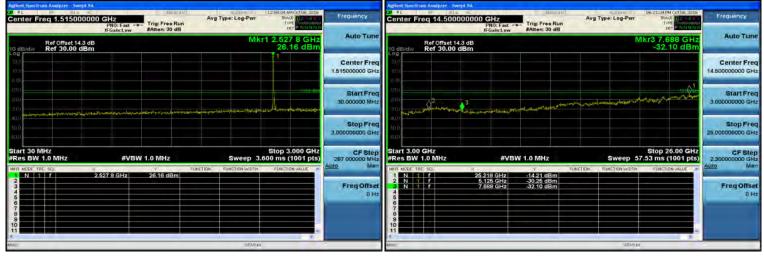


#### 30MHz~3GHz\_Band7 15MHz\_QPSK 1 0\_MidCH20175-1732.5

# 30MHz~3GHz\_Band7 15MHz\_QPSK 1 0\_HighCH21375-2562.5



#### 3GHz~10GHz\_Band7 15MHz\_QPSK 1 0\_HighCH21375-2562.5



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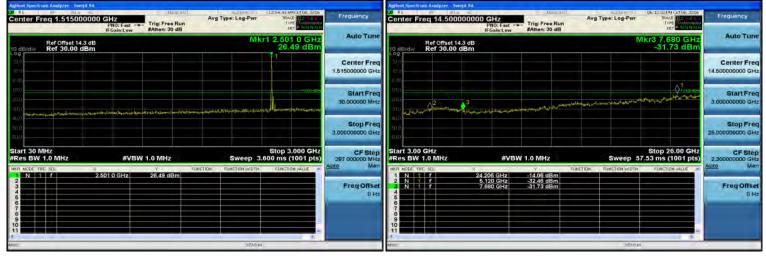
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#### 30MHz~3GHz\_Band7 20MHz\_QPSK 1 0\_LowCH20850-2510

#### 3GHz~10GHz\_Band7 20MHz\_QPSK 1 0\_MidCH21100-2535

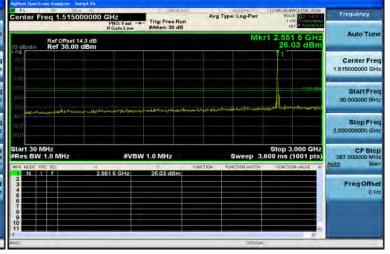


# 3GHz~10GHz\_Band7 20MHz\_QPSK 1 0\_LowCH20850-2510



# 30MHz~3GHz\_Band7 20MHz\_QPSK 1 0\_MidCH21100-2535

# 30MHz~3GHz\_Band7 20MHz\_QPSK 1 0\_HighCH21350-2560



#### 3GHz~10GHz\_Band7 20MHz\_QPSK 1 0\_HighCH21350-2560



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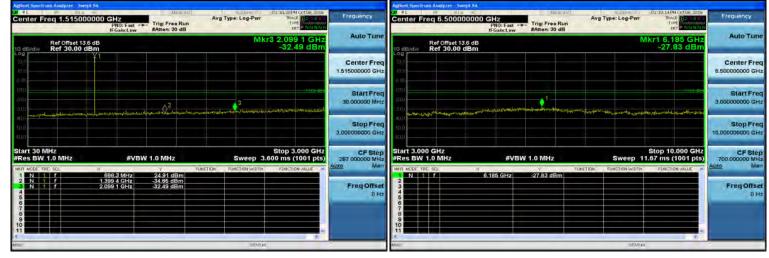
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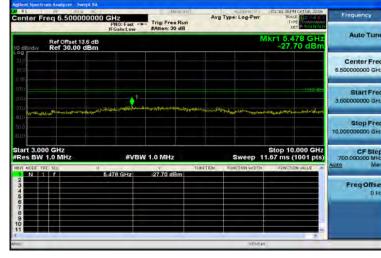


#### 30MHz~3GHz\_Band12 1.4MHz\_QPSK 1 0\_LowCH23017-699.7

#### 3GHz~10GHz\_Band12 1.4MHz\_QPSK 1 0\_MidCH23095-707.5



# 3GHz~10GHz\_Band12 1.4MHz\_QPSK 1 0\_LowCH23017-699.7



# 30MHz~3GHz\_Band12 1.4MHz\_QPSK 1 0\_MidCH23095-707.5

# 30MHz~3GHz\_Band12 1.4MHz\_QPSK 1 0\_HighCH23173-715.3



#### 3GHz~10GHz\_Band12 1.4MHz\_QPSK 1 0\_HighCH23173-715.3



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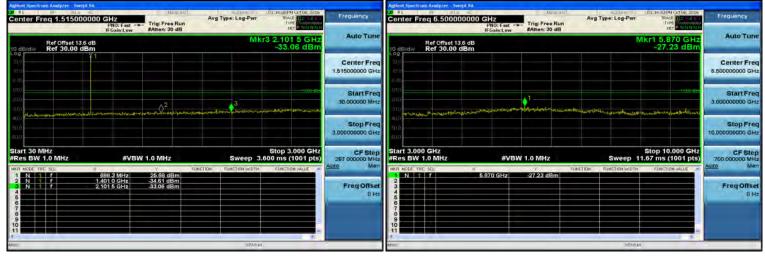
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#### 30MHz~3GHz\_Band12 3MHz\_QPSK 1 0\_LowCH23025-700.5

#### 3GHz~10GHz\_Band12 3MHz\_QPSK 1 0\_MidCH23095-707.5



# 3GHz~10GHz Band12 3MHz QPSK 1 0 LowCH23025-700.5

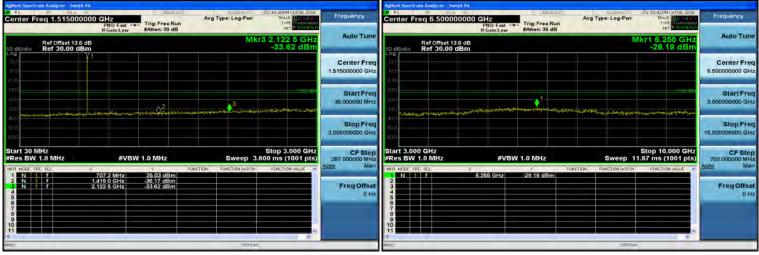
#### Frequency 0000 GHz Trig: Free Run Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Center Free Start Free 3.000000000 GH Stop Fre Stop 10.00 CF Step ALL O MH 700.00 FregOffse DH

#### 30MHz~3GHz\_Band12 3MHz\_QPSK 1 0\_MidCH23095-707.5

# 30MHz~3GHz\_Band12 3MHz\_QPSK 1 0\_HighCH23165-714.5



#### 3GHz~10GHz\_Band12 3MHz\_QPSK 1 0\_HighCH23165-714.5



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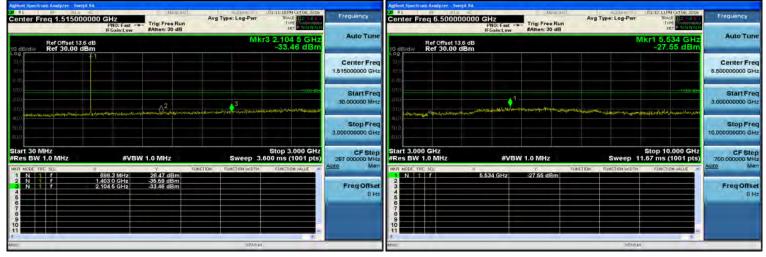
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#### 30MHz~3GHz\_Band12 5MHz\_QPSK 1 0\_LowCH23035-701.5

#### 3GHz~10GHz\_Band12 5MHz\_QPSK 1 0\_MidCH23095-707.5



# 3GHz~10GHz\_Band12 5MHz\_QPSK 1 0\_LowCH23035-701.5

# Center Freq 6.500000000 CHz Productor Arg Type: LegAbr Type: LegAbr</

#### 30MHz~3GHz\_Band12 5MHz\_QPSK 1 0\_MidCH23095-707.5

# 30MHz~3GHz\_Band12 5MHz\_QPSK 1 0\_HighCH23155-713.5



#### 3GHz~10GHz\_Band12 5MHz\_QPSK 1 0\_HighCH23155-713.5



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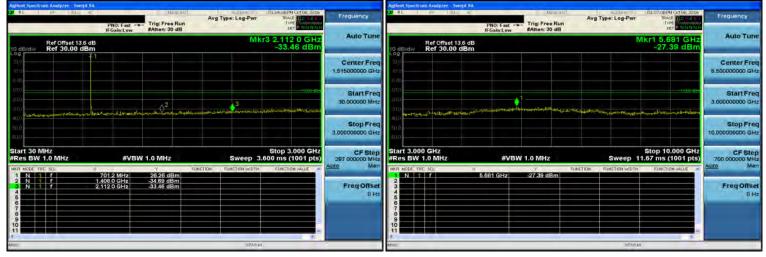
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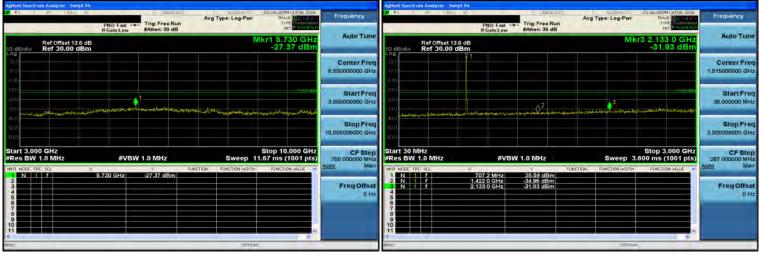


#### 30MHz~3GHz\_Band12 10MHz\_QPSK 1 0\_LowCH23060-704

#### 3GHz~10GHz\_Band12 10MHz\_QPSK 1 0\_MidCH23095-707.5



# 3GHz~10GHz\_Band12 10MHz\_QPSK 1 0\_LowCH23060-704



#### 30MHz~3GHz\_Band12 10MHz\_QPSK 1 0\_MidCH23095-707.5

#### 3GHz~10GHz\_Band12 10MHz\_QPSK 1 0\_HighCH23130-711

30MHz~3GHz\_Band12 10MHz\_QPSK 1 0\_HighCH23130-711



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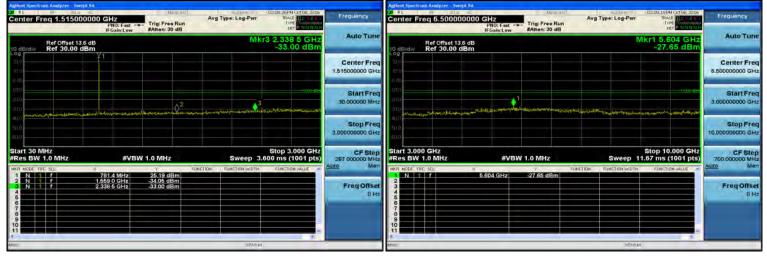
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#### 30MHz~3GHz\_Band13 5MHz\_QPSK 1 0\_LowCH23205-779.5

#### 3GHz~10GHz\_Band13 5MHz\_QPSK 1 0\_MidCH23230-782



# 3GHz~10GHz\_Band13 5MHz\_QPSK 1 0\_LowCH23205-779.5

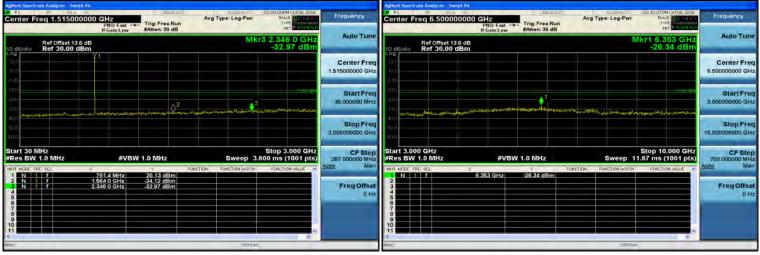
#### Frequency eq 6.500000000 GHz Avg Type: Log-P Trig: Free Run Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm 27.44 di Center Free Start Free 3.000000000 GH Stop Fre Stop 10.00 CF Step ALL O MH 700.00 FregOffse

#### 30MHz~3GHz\_Band13 5MHz\_QPSK 1 0\_MidCH23230-782

# 30MHz~3GHz\_Band13 5MHz\_QPSK 1 0\_HighCH23255-784.5



#### 3GHz~10GHz\_Band13 5MHz\_QPSK 1 0\_HighCH23255-784.5



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#### 30MHz~3GHz\_Band13 10MHz\_QPSK 1 0\_MidCH23230-782

#### 763.3MHz~775MHz\_Band13 5MHz\_QPSK 1 0\_LowCH23205-779.5

Agent Spectral Adaptive Sweet as The State Stat	Frequency	Agginet Spectrum Makeyyre - Swingt SM Dr RL PP BLC < Block - Block - Avg Type: Log-Pwr Rev.c Dock - Proce Dock - Photometer PhO: Wide Trig: Free Run IFGain.tow Adten: 10 dB cer Dock	Frequency
Ref Offset 135 dB Mkr3 2.346 0 GHz 10 dBidiv Ref 30.00 dBm -32.57 dBm	Auto Tune	Rer Offset 13.5 dB Mkr1 775.000 MHz 19 dBudiv Ref 10.00 dBm -69.46 dBm	Auto Tune
200 ¥1 1000	Center Freq 1.515000000 GHz	0.00 	Center Freq 769.000000 MHz
100) 500 500 500 500 500 500 500	Start Freq 30,000000 MHz	- 2011 - 4000 - 2010	Start Freq 763.000000 MHz
400 Proceeding of the design o	Stop Freq 3.000000000 GHz	ระบบ 103 สมบาทที่ปฏาแนะมีนโลยไปประกูสนุ่ายายปลมมันไประเภษที่ "มีสารีการประวัติสารแห่ง" ไฟฟัตระหมีเป็นเป็นประวัติสารีการและที่สำนักแรงไฟฟ์" 1	Stop Freq 775.00000 MHz
Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 763.000 MHz Stop 775.000 MHz #Res BW 6.8 kHz #VBW 6.8 kHz Sweep 312.9 ms (1001 pts)	CF Step 1.200000 MHz
Impa Note         Trest         Trest         Function	FreqOffset DH2	IMPR MORE TRC SQL         X         Y         Function         Function width         Function width           1         N         1         F         7775.000 MHz         -89.45 dBm         -         <	Freq Offset 0 Hz
0 3 10 11 4 4 4 4 4 4 4 4 4 4 4 4 4		0 9 10 11 4 4 4 4 4 4 4 4 4 4 4 4 4	

# 3GHz~10GHz Band13 10MHz QPSK 1 0 MidCH23230-782

Agilent Spectrum Analyzer – Swipt 54		Agilient Spectrum Analyzer - Swipt SA	
2 * 1 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Frequency	RE PF BG C BURNEL AVER AVER THE PF BG C FROM THE PF BG C BURNEL AVER AVER AVER AVER AVER AVER AVER AVER	Frequency
Ref Offset 13.6 dB 10 dB/dw Ref 30.00 dBm -27.69 dBm	Auto Tune	RefOffset 13.6 B Mkr1 793.780 MHz 10 dBrdw Ref 10.00 dBm -73.51 dBm	Auto Tune
	Center Freq 5.500000000 GHz		Center Freq 795.000000 MHz
100 200 200 malanas d <sup>an</sup> sama haran ayan ayan dan baran ayan manan dan ana ana kana sama dan yana dan yana dan yana dan yana dan ayan dan ay	Start Freq 3,000000000 GHz	2001 4001 900	StartFreq 793.000000 MHz
	Stop Freq 10.000000000 GHz	ann 100 ann Phalain-Ianasa, ann, Iomhanna Ion geac Bhlach, an sgeacht, agus ann a gharanna gharanna ann an beir Bann ben bharanna Ann ann an 1	Stop Freq B05.000000 MHz
Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pts) www.wobermet.soc w y Burchow Rulet on Walks		Start 793.000 MHz Stop 805.000 MHz #Res BW 6.8 kHz #VBW 6.8 kHz Sweep 312.9 ms (1001 pts) ### HORE THC 902 3 Y FUNCTION #UNITIN FUNCTION #UNIT	CF Step 1.200000 MHz to Man
1 N 1 f 5366 GHz -27.69 dBm 2 3 4 5	FregOffset D Hz	1 N 1 7 793.780 MHz -73.51 dBm	Freq Offset 0 Hz
		0 8 9 10	
e e e e e e e e e e e e e e e e e e e		* P	_

#### 763.3MHz~775MHz\_Band13 5MHz\_QPSK 1 0\_MidCH23230-782

793MHz~805MHz Band13 5MHz QPSK 1 0 LowCH23205-779.5

RL (F 310 K	PND: Wide	and the second second	Avg Type: Log-Pwr	D6.48;325 PM Cct D6, 2016 RACE CC BC BC TYPE Block Andre DET P 020 00000	Frequency Auto Tune	
Ref Offset 13.6 dB 0 dBidiv Ref 10.00 dBm						
100 100					Center Free 769.000000 MH	
400) 400)				20,00m	Start Free 763.000000 MH	
ωφ φδ					Stop Free	
	unal approximation	dasplorates silled at the fail for	edunikation to and surplay	newlast when the standard		
an <mark>ເປັນໄດ້ເຊິ່ງມູ່ໄດ້ຕໍ່ມີ ຈາກກັບໃຫ້ດາດສີ</mark> Start 763.000 MHz Res BW 6.8 KHz		6.8 kHz	Sweep 3	Stop 775.000 MHz 12.9 ms (1001 pts)	CF Step 1.200000 MH3	
au <mark>เป็นปีประวัตรสะสะวัตรไปประ</mark> Start 763.000 MHz Res BW 6.8 kHz พศ MODE TRC Sc 30		6.8 kHz		Stop 775.000 MHz 12.9 ms (1001 pts)	CF Step 1.200000 MH	

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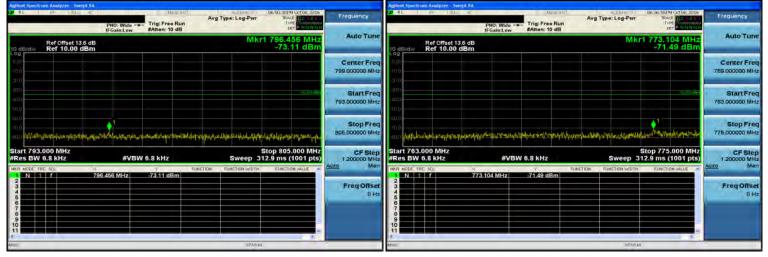
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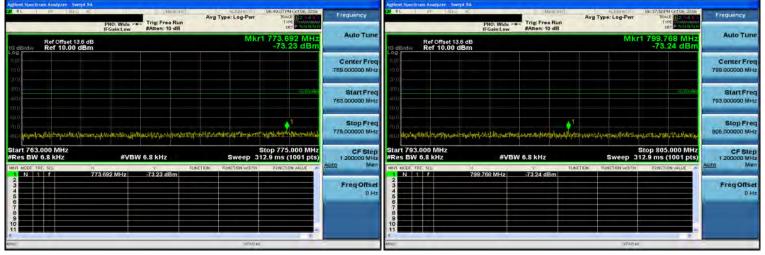
#### 793MHz~805MHz\_Band13 5MHz\_QPSK 1 0\_MidCH23230-782

#### 763.3MHz~775MHz\_Band13 10MHz\_QPSK 1 0\_MidCH23230-782

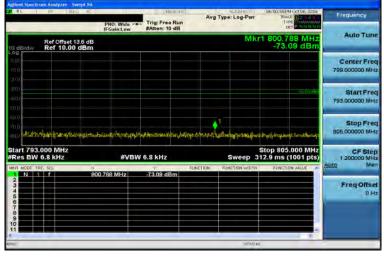


# 763.3MHz~775MHz\_Band13 5MHz\_QPSK 1 0\_HighCH23255-784.5

#### 793MHz~805MHz\_Band13 10MHz\_QPSK 1 0\_MidCH23230-782



#### 793MHz~805MHz\_Band13 5MHz\_QPSK 1 0\_HighCH23255-784.5



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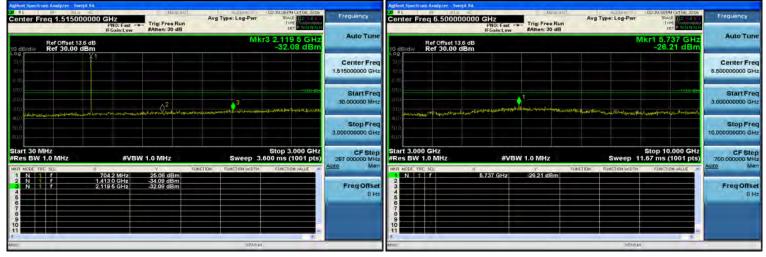
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#### 30MHz~3GHz\_Band17 5MHz\_QPSK 1 0\_LowCH23755-706.5

#### 3GHz~10GHz\_Band17 5MHz\_QPSK 1 0\_MidCH23790-710



# 3GHz~10GHz\_Band17 5MHz\_QPSK 1 0\_LowCH23755-706.5

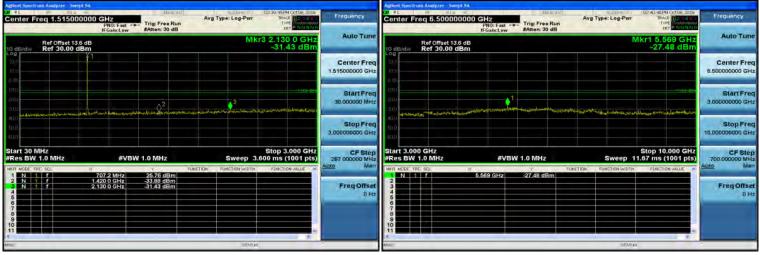
# Mile Stop Stop Stop Frequency Aug Type: Leg-Pur Aug Type: Leg-Pur Top Top

#### 30MHz~3GHz\_Band17 5MHz\_QPSK 1 0\_MidCH23790-710

# 30MHz~3GHz\_Band17 5MHz\_QPSK 1 0\_HighCH23825-713.5



#### 3GHz~10GHz\_Band17 5MHz\_QPSK 1 0\_HighCH23825-713.5



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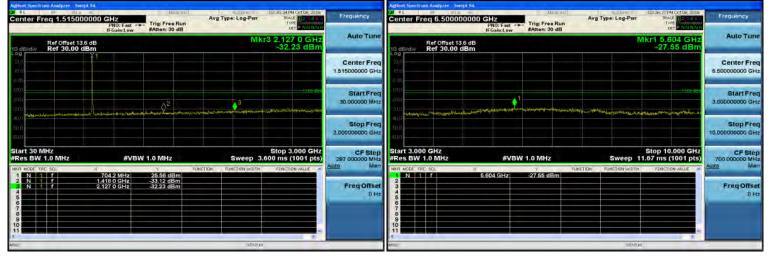
台灣檢驗科技股份有限公司

f (886-2) 2298-0488



#### 30MHz~3GHz\_Band17 10MHz\_QPSK 1 0\_LowCH23780-709

#### 3GHz~10GHz\_Band17 10MHz\_QPSK 1 0\_MidCH23790-710

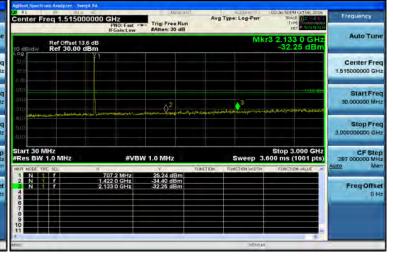


# 3GHz~10GHz\_Band17 10MHz\_QPSK 1 0\_LowCH23780-709

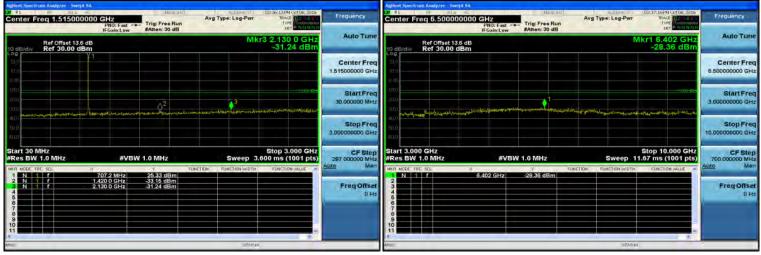


#### 30MHz~3GHz\_Band17 10MHz\_QPSK 1 0\_MidCH23790-710

# 30MHz~3GHz\_Band17 10MHz\_QPSK 1 0\_HighCH23800-711



#### 3GHz~10GHz\_Band17 10MHz\_QPSK 1 0\_HighCH23800-711



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# **10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT**

# 10.1. Standard Applicable

According to FCC §2.1053,

FCC  $\S22.917(a)$ ,  $\S24.238(a)$ ,  $\S27.53(g)(h)$ , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

# §27.53 (c)

(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 (-13dBm)

(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;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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.

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{Note}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{Note}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

# Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

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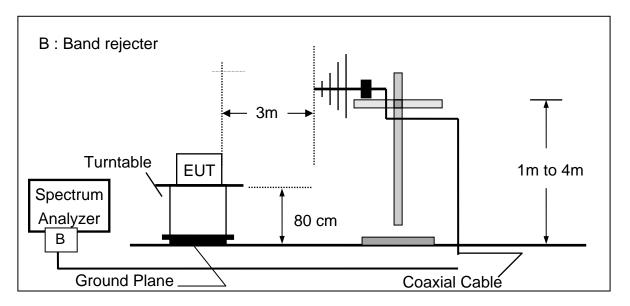
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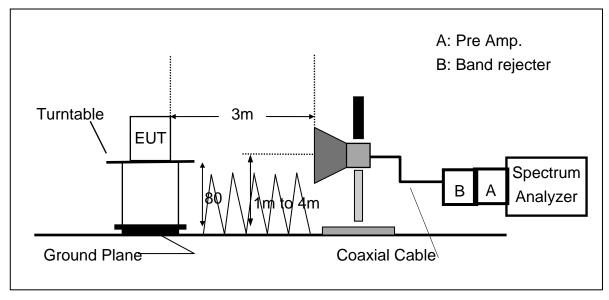
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

# 10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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# **10.3. Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

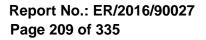
Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

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# **10.4. Measurement Equipment Used:**

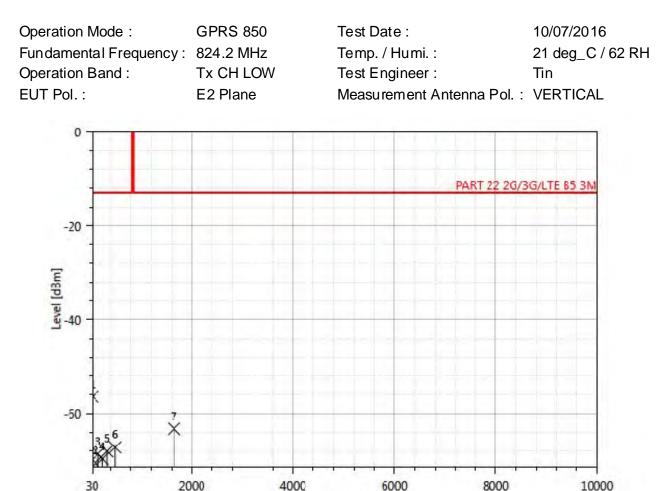
ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber           EQUIPMENT TYPE         MFR         MODEL         SERIAL         LAST CAL.         CAL DUE.										
EQUIPMENT TYPE	IIPMENT TYPE MFR		SERIAL NUMBER	LAST CAL.	CAL DUE.					
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017					
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017					
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016					
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016					
Bi-log Antenna	SCHWAZBECK	VULB9168	300	12/12/2015	12/11/2016					
Horn Antenna	SCHWAZBECK	BBHA9120D	1441	08/10/2015	08/09/2016					
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/18/2016	07/17/2017					
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017					
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017					
Turn Table	HD	DT420	N/A	N.C.R	N.C.R					
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R					
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R					
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017					
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017					
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017					
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017					
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016					
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016					
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017					
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017					
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017					
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017					
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017					

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# 10.5. Measurement Result:

# **Radiated Spurious Emission Measurement Result: GPRS 850 Mode**



Frequency [MHz]

Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
39.70	S	Peak	-56.41	-42.31	-13.11	-0.99	-13.00	-43.41
95.96	S	Peak	-70.53	-68.14	-1.16	-1.23	-13.00	-57.53
149.31	S	Peak	-68.56	-64.99	-2.14	-1.43	-13.00	-55.56
235.64	S	Peak	-69.64	-71.12	3.21	-1.73	-13.00	-56.64
325.85	S	Peak	-68.01	-69.84	3.75	-1.92	-13.00	-55.01
479.11	S	Peak	-67.19	-68.73	3.77	-2.24	-13.00	-54.19
1648.40	Н	Peak	-63.26	-66.14	7.11	-4.22	-13.00	-50.26

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102.75

206.54

219.15

367.56

517.91

1648.40

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Operation Mode : Fundamental Frequ Operation Band : EUT Pol. :	GPRS 8 ency : 824.2 Mi Tx CH L E2 Plane	Hz OW	Test Date : Temp. / Hur Test Engine Measureme	er:	2 T	10/07/2016 21 deg_C / 62 Fin HORIZONTA	
				PART	22 2G/3G	/LTE B5 3M	
-20							
[mgp] -40							
-50 -6	×						
30	2000	4000 Fre	6000 quency [MHz]		8000	10000	
Freq. Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz F/H/E/	Mode S QP/AV/PK	Level dBm	Le vel dBm	Gain dBd	Loss dB	@3m dBm	dB
37.76 S	Peak	-58.24	-43.94	-13.32	-0.98	-13.00	-45.24

Peak

Peak

Peak

Peak

Peak

Peak

-61.65

-70.52

-68.38

-67.50

-68.74

-63.67

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-58.53

-72.24

-70.03

-69.17

-70.12

-66.55

-1.87

3.38

3.34

3.85

3.76

7.11

-1.26

-1.66

-1.70

-2.18

-2.37

-4.22

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-48.65

-57.52

-55.38

-54.50

-55.74

-50.67



**Operation Mode : GPRS 850** Test Date : 10/07/2016 Fundamental Frequency: 836.6 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH MID Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 22 2G/3G/LTE 85 3M -20 \_evel [dBm] 40 -50 Ж 2000 4000 6000 8000 30 10000 Frequency [MHz] ERP SG Output Limit Freq. Note Decetor Antenna Cable Margin @3m Mode Level Gain Loss Level

			Mode	LOVOI		Gain	L033	Com		
	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
-	32.91	S	Peak	-56.77	-41.71	-14.09	-0.97	-13.00	-43.77	_
	119.24	S	Peak	-66.14	-62.38	-2.44	-1.32	-13.00	-53.14	
	236.61	S	Peak	-66.70	-68.20	3.23	-1.73	-13.00	-53.70	
	377.26	S	Peak	-68.54	-70.13	3.84	-2.24	-13.00	-55.54	
	517.91	S	Peak	-65.95	-67.34	3.76	-2.37	-13.00	-52.95	
	597.45	S	Peak	-64.57	-65.08	3.26	-2.75	-13.00	-51.57	
	1673.20	Н	Peak	-62.88	-65.79	7.20	-4.29	-13.00	-49.88	

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100.81

211.39

396.66

515.00

663.41

1673.20

S

S

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Н

Operation Fundamen Operation EUT Pol. :	tal Frequency : Band :	GPRS 850 836.6 MHz Tx CH MIE E2 Plane	2	Test Date : Temp. / Hur Test Engine Measureme	er:	2′ Ti		
					PART	22 2G/3G/I	.TE 65 3M	
-20 ·								
[mgp] Paral								
3-40 ·	k							
-50	- -2 56 X							
	30 2	000	4000 Frequ	6000 ency [MHz]	<del></del> .	8000	10000	
Freq.	Note [	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz		P/AV/PK	dBm	dBm	dBd	dB	dBm	dB
39.70	S	Peak	-43.75	-29.65	-13.11	-0.99	-13.00	-30.75

Peak

Peak

Peak

Peak

Peak

Peak

-66.92

-71.74

-69.27

-66.76

-66.52

-62.47

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-63.97

-73.56

-70.73

-68.18

-67.28

-65.38

-1.69

3.50

3.82

3.77

3.12

7.20

-1.25

-1.68

-2.36

-2.36

-2.37

-4.29

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-53.92

-58.74

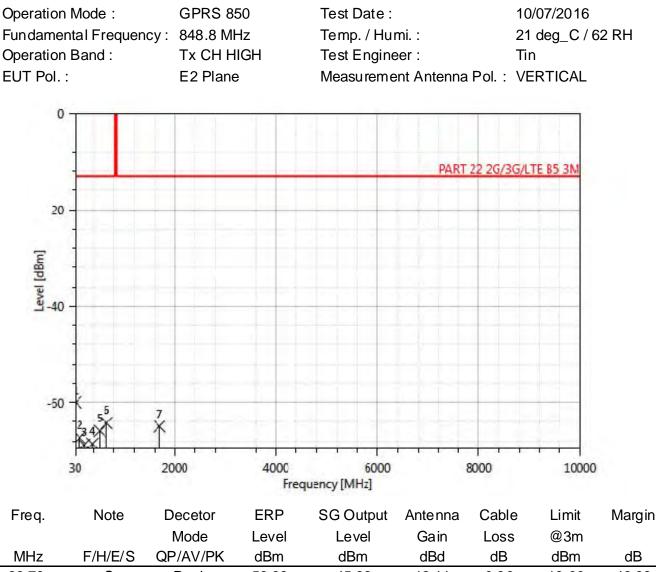
-56.27

-53.76

-53.52

-49.47





	1/1/2/3	QF/AV/FR	ubm	ubiii	uDu	uБ	ubiii	uВ	
39.70	S	Peak	-59.98	-45.88	-13.11	-0.99	-13.00	-46.98	
119.24	S	Peak	-67.28	-63.52	-2.44	-1.32	-13.00	-54.28	
212.36	S	Peak	-68.75	-70.55	3.48	-1.68	-13.00	-55.75	
371.44	S	Peak	-68.53	-70.17	3.84	-2.21	-13.00	-55.53	
515.00	S	Peak	-65.89	-67.30	3.77	-2.36	-13.00	-52.89	
650.80	S	Peak	-64.25	-64.98	3.14	-2.40	-13.00	-51.25	
1697.60	Н	Peak	-64.93	-67.90	7.28	-4.31	-13.00	-51.93	



338.46

367.56

481.05

532.46

1697.60

S

S

S

S

Н

Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :		GPRS 8 cy : 848.8 Mi Tx CH H E2 Plane	Hz IIGH	Test Date : Temp. / Hui Test Engine Measureme	er:	2 T	0/07/2016 21 deg_C / 62 Tin HORIZONTA	
-20					PART	<u>22 2G/3G</u>	<u>/LTE B5 3M</u>	
Level [dBm] 6								
50	245	¥						
	30	2000	4000 Freq	6000 uency [MHz]		8000	10000	
Freq.	Note	Decetor Mode	ERP Level	SG Output Le vel	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
99.84	S	Peak	-66.52	-63.67	-1.60	-1.25	-13.00	-53.52
219.15	S	Peak	-67.45	-69.09	3.34	-1.70	-13.00	-54.45

Peak

Peak

Peak

Peak

Peak

-70.98

-69.27

-68.99

-68.76

-63.35

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-72.84

-70.93

-70.53

-69.92

-66.32

3.81

3.85

3.78

3.68

7.28

-1.95

-2.18

-2.24

-2.52

-4.31

-13.00

-13.00

-13.00

-13.00

-13.00

-57.98

-56.27

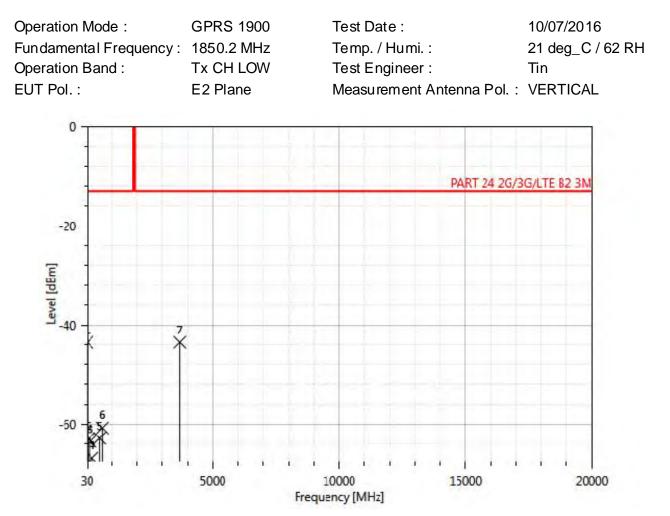
-55.99

-55.76

-50.35



#### **Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

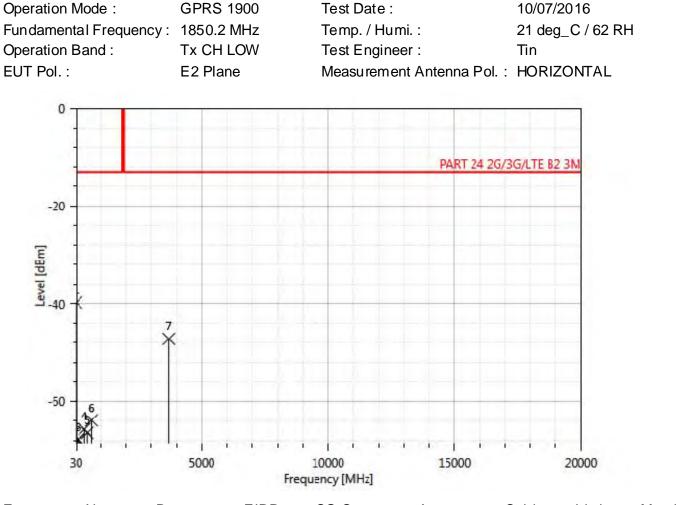


Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
37.76	S	Peak	-43.50	-31.34	-11.17	-0.98	-13.00	-30.50
102.75	S	Peak	-62.91	-61.93	0.28	-1.26	-13.00	-49.91
165.80	S	Peak	-63.47	-62.91	0.94	-1.50	-13.00	-50.47
230.79	S	Peak	-66.80	-70.35	5.28	-1.73	-13.00	-53.80
527.61	S	Peak	-62.83	-66.22	5.86	-2.47	-13.00	-49.83
636.25	S	Peak	-60.78	-63.65	5.32	-2.45	-13.00	-47.78
3700.40	Н	Peak	-43.49	-49.35	12.44	-6.58	-13.00	-30.49

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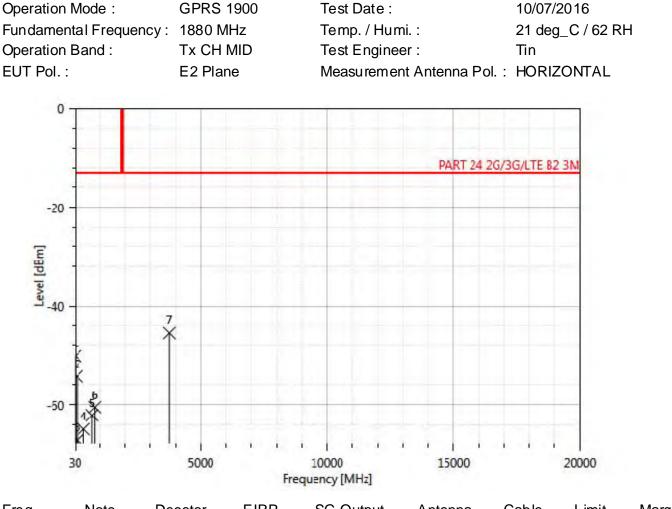
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-39.73	-26.82	-11.94	-0.97	-13.00	-26.73
97.90	S	Peak	-67.89	-67.42	0.77	-1.24	-13.00	-54.89
138.64	S	Peak	-67.80	-65.87	-0.54	-1.39	-13.00	-54.80
361.74	S	Peak	-65.69	-69.55	6.00	-2.14	-13.00	-52.69
476.20	S	Peak	-66.44	-70.12	5.91	-2.23	-13.00	-53.44
641.10	S	Peak	-63.88	-66.76	5.31	-2.43	-13.00	-50.88
3700.40	Н	Peak	-47.20	-53.06	12.44	-6.58	-13.00	-34.20



**Operation Mode : GPRS 1900** Test Date : 10/07/2016 Fundamental Frequency: 1880 MHz 21 deg\_C / 62 RH Temp. / Humi. : **Operation Band :** Tx CH MID Test Engineer : Tin EUT Pol.: E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 24 2G/3G/LTE B2 3M -20 Level [dEm] -10 7 -50 5000 10000 15000 20000 30 Frequency [MHz]

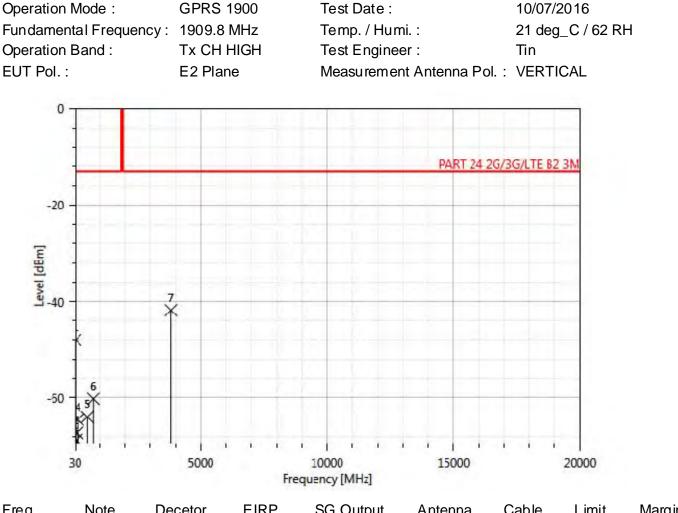
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-47.73	-35.78	-10.96	-0.99	-13.00	-34.73
100.81	S	Peak	-64.89	-64.09	0.46	-1.25	-13.00	-51.89
139.61	S	Peak	-62.74	-60.80	-0.55	-1.39	-13.00	-49.74
442.25	S	Peak	-65.46	-69.08	5.82	-2.19	-13.00	-52.46
587.75	S	Peak	-62.09	-64.77	5.47	-2.79	-13.00	-49.09
692.51	S	Peak	-61.06	-63.46	5.24	-2.84	-13.00	-48.06
3760.00	Н	Peak	-45.35	-51.20	12.45	-6.60	-13.00	-32.35





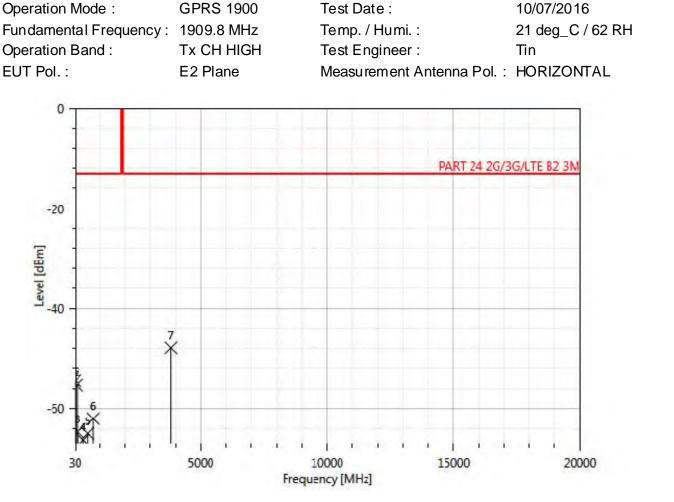
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-50.11	-38.16	-10.96	-0.99	-13.00	-37.11
102.75	S	Peak	-54.26	-53.29	0.28	-1.26	-13.00	-41.26
139.61	S	Peak	-67.12	-65.18	-0.55	-1.39	-13.00	-54.12
367.56	S	Peak	-64.94	-68.75	6.00	-2.18	-13.00	-51.94
697.36	S	Peak	-62.15	-64.45	5.23	-2.93	-13.00	-49.15
806.00	S	Peak	-60.52	-63.11	5.48	-2.89	-13.00	-47.52
3760.00	Н	Peak	-45.42	-51.27	12.45	-6.60	-13.00	-32.42





Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-47.96	-36.01	-10.96	-0.99	-13.00	-34.96
90.14	S	Peak	-68.69	-69.18	1.70	-1.21	-13.00	-55.69
119.24	S	Peak	-67.23	-65.62	-0.29	-1.32	-13.00	-54.23
146.40	S	Peak	-64.48	-62.90	-0.16	-1.42	-13.00	-51.48
516.94	S	Peak	-63.93	-67.48	5.91	-2.37	-13.00	-50.93
750.71	S	Peak	-60.23	-62.49	5.33	-3.07	-13.00	-47.23
3819.60	Н	Peak	-41.80	-47.62	12.47	-6.65	-13.00	-28.80





Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-54.46	-42.51	-10.96	-0.99	-13.00	-41.46
102.75	S	Peak	-55.32	-54.35	0.28	-1.26	-13.00	-42.32
144.46	S	Peak	-64.72	-63.04	-0.28	-1.41	-13.00	-51.72
356.89	S	Peak	-66.33	-70.24	6.01	-2.10	-13.00	-53.33
536.34	S	Peak	-65.02	-68.26	5.81	-2.56	-13.00	-52.02
741.01	S	Peak	-62.08	-64.26	5.31	-3.13	-13.00	-49.08
3819.60	Н	Peak	-47.94	-53.76	12.47	-6.65	-13.00	-34.94



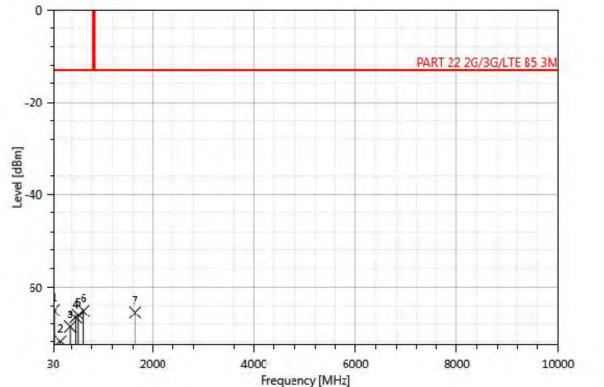
## Radiated Spurious Emission Measurement Result: CDMA (BC0) Mode

Operation Mode : Fundamental Frequence Operation Band : EUT Pol. :	CDMA 850 cy : 824.7 MHz Tx CH LOW E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna F	10/11/2016 21 deg_C / 62 RH Tin Pol. : VERTICAL
0			
		PART 2	2 2G/3G/LTE 85 3M
-20 -			
_ 1			
[mgp] -40 -			
<u>ອ</u> ້-40 -			
-			
-50 - 5	×		
877,111, 30	2000 4000 F	6000 80 requency [MHz]	00 10000

Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
94.99	S	Peak	-70.59	-68.32	-1.04	-1.23	-13.00	-57.59
168.71	S	Peak	-68.56	-66.05	-1.00	-1.51	-13.00	-55.56
251.16	S	Peak	-68.91	-70.62	3.47	-1.76	-13.00	-55.91
479.11	S	Peak	-66.39	-67.92	3.77	-2.24	-13.00	-53.39
555.74	S	Peak	-63.68	-64.47	3.55	-2.75	-13.00	-50.68
634.31	S	Peak	-61.99	-62.71	3.17	-2.45	-13.00	-48.99
1649.40	Н	Peak	-65.45	-68.34	7.11	-4.23	-13.00	-52.45



**Operation Mode : CDMA 850** Test Date : 10/11/2016 Fundamental Frequency: 824.7 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH LOW Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
46.49	S	Peak	-65.02	-51.96	-12.04	-1.03	-13.00	-52.02
177.44	S	Peak	-71.72	-70.61	0.44	-1.55	-13.00	-58.72
367.56	S	Peak	-68.58	-70.25	3.85	-2.18	-13.00	-55.58
471.35	S	Peak	-66.58	-68.10	3.74	-2.22	-13.00	-53.58
519.85	S	Peak	-66.01	-67.37	3.75	-2.39	-13.00	-53.01
634.31	S	Peak	-65.18	-65.90	3.17	-2.45	-13.00	-52.18
1649.40	Н	Peak	-65.53	-68.41	7.11	-4.23	-13.00	-52.53



-50

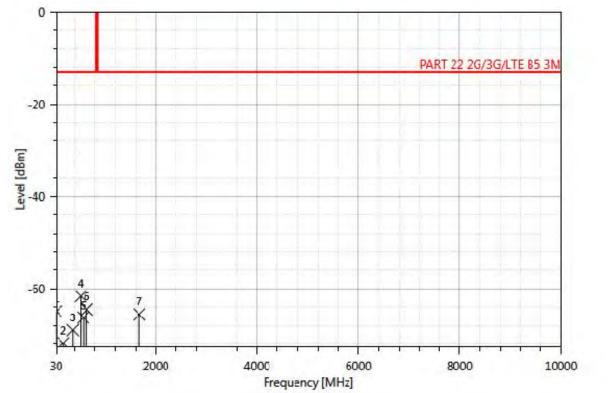
**Operation Mode : CDMA 850** Test Date : 10/11/2016 Fundamental Frequency: 836.52 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH MID Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 22 2G/3G/LTE B5 3N -20 evel [dBm] -40

7 ж 2000 4000 6000 8000 30 10000 Frequency [MHz]

Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
94.02	S	Peak	-70.78	-68.63	-0.93	-1.22	-13.00	-57.78
170.65	S	Peak	-69.78	-67.47	-0.79	-1.52	-13.00	-56.78
228.85	S	Peak	-67.69	-69.10	3.14	-1.72	-13.00	-54.69
385.99	S	Peak	-67.63	-69.16	3.83	-2.30	-13.00	-54.63
478.14	S	Peak	-64.95	-66.49	3.77	-2.24	-13.00	-51.95
626.55	S	Peak	-61.44	-62.14	3.19	-2.49	-13.00	-48.44
1673.04	Н	Peak	-64.63	-67.54	7.20	-4.29	-13.00	-51.63



**Operation Mode : CDMA 850** Test Date : 10/11/2016 Fundamental Frequency: 836.52 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH MID Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
34.85	S	Peak	-64.92	-50.28	-13.67	-0.97	-13.00	-51.92
172.59	S	Peak	-71.82	-69.86	-0.44	-1.53	-13.00	-58.82
359.80	S	Peak	-68.98	-70.71	3.85	-2.12	-13.00	-55.98
515.00	S	Peak	-61.63	-63.04	3.77	-2.36	-13.00	-48.63
567.38	S	Peak	-66.26	-66.96	3.46	-2.77	-13.00	-53.26
636.25	S	Peak	-64.49	-65.21	3.17	-2.45	-13.00	-51.49
1673.04	Н	Peak	-65.59	-68.50	7.20	-4.29	-13.00	-52.59



**Operation Mode : CDMA 850** Test Date : 10/11/2016 Fundamental Frequency: 848.31 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 22 2G/3G/LTE B5 3N 20 evel [dBm] -40 -50 7 4000 6000 8000 30 2000 10000 Frequency [MHz] ERP SG Output Limit Freq. Note Decetor Antenna Cable Margin @3m Mode Level Level Gain Loss MHz F/H/E/S QP/AV/PK dBm dBm dBd dB dBm dB 95.96 S Peak -70.45 -68.06 -1.16 -1.23 -13.00 -57.45

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Peak

Peak

Peak

Peak

Peak

Peak

-69.24

-67.72

-66.19

-63.81

-60.73

-64.24

S

S

S

S

S

Н

168.71

337.49

476.20

550.89

624.61

1696.62

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-66.72

-69.57

-67.72

-64.68

-61.41

-67.22

-1.00

3.80

3.76

3.58

3.19

7.28

-1.51

-1.95

-2.23

-2.71

-2.51

-4.31

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-56.24

-54.72

-53.19

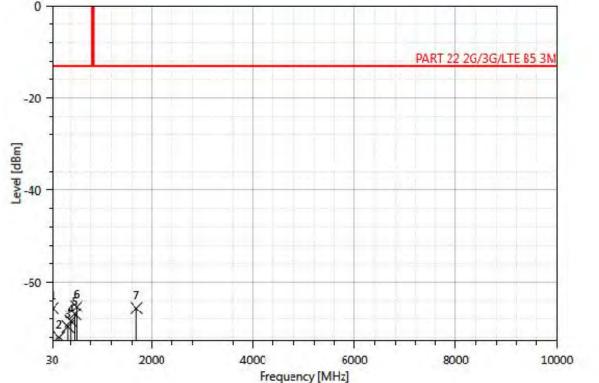
-50.81

-47.73

-51.24



**Operation Mode : CDMA 850** Test Date : 10/11/2016 Fundamental Frequency: 848.31 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
42.61	S	Peak	-65.62	-51.92	-12.69	-1.01	-13.00	-52.62
168.71	S	Peak	-71.91	-69.39	-1.00	-1.51	-13.00	-58.91
342.34	S	Peak	-69.60	-71.44	3.83	-1.99	-13.00	-56.60
401.51	S	Peak	-68.41	-69.83	3.82	-2.39	-13.00	-55.41
474.26	S	Peak	-66.90	-68.42	3.75	-2.23	-13.00	-53.90
513.06	S	Peak	-65.27	-66.70	3.79	-2.35	-13.00	-52.27
1696.62	Н	Peak	-65.60	-68.57	7.28	-4.31	-13.00	-52.60



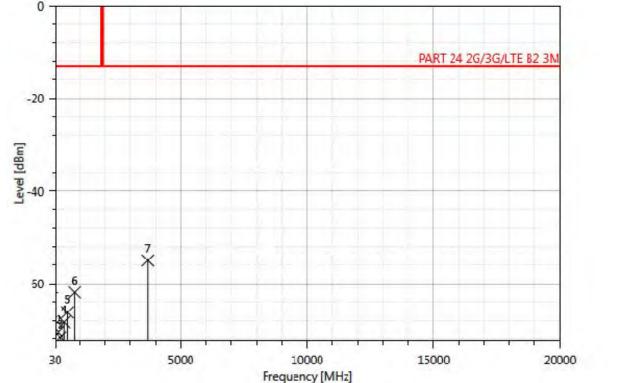
# Radiated Spurious Emission Measurement Result: CDMA (BC1) Mode

Operation I Fundament Operation I EUT Pol. : 0 -	tal Frequency :	CDMA 1900 1851.25 MHz Tx CH LOW E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna Pol. :	10/07/2016 21 deg_C / 62 RH Tin VERTICAL
			PART 24 2G/	3G/LTE B2 3M
-20 - E				
[mgb] hevel				
-50 -	5 5 7 7 7			
3	80		10000 15000 ency [MHz]	20000

Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
95.96	S	Peak	-70.14	-69.90	0.99	-1.23	-13.00	-57.14
180.35	S	Peak	-68.92	-70.46	3.10	-1.56	-13.00	-55.92
288.99	S	Peak	-66.58	-70.24	5.58	-1.92	-13.00	-53.58
413.15	S	Peak	-67.25	-70.80	5.92	-2.38	-13.00	-54.25
544.10	S	Peak	-64.66	-67.79	5.77	-2.64	-13.00	-51.66
689.60	S	Peak	-61.35	-63.80	5.24	-2.79	-13.00	-48.35
3702.50	н	Peak	-55.59	-61.46	12.44	-6.58	-13.00	-42.59



**Operation Mode :** CDMA 1900 Test Date : 10/07/2016 Fundamental Frequency: 1851.25 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH LOW Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
30.00	S	Peak	-64.04	-50.46	-12.63	-0.96	-13.00	-51.04
165.80	S	Peak	-70.42	-69.86	0.94	-1.50	-13.00	-57.42
243.40	S	Peak	-71.56	-75.30	5.49	-1.75	-13.00	-58.56
396.66	S	Peak	-68.32	-71.93	5.97	-2.36	-13.00	-55.32
521.79	S	Peak	-66.18	-69.66	5.89	-2.41	-13.00	-53.18
798.24	S	Peak	-61.92	-64.51	5.49	-2.90	-13.00	-48.92
3702.50	Н	Peak	-54.98	-60.84	12.44	-6.58	-13.00	-41.98



Operation Fundame Operation EUT Pol.	ntal Freque Band :	CDMA ency : 1880 M Tx CH E2 Plar	IHz MID	Test Date : Temp. / Hun Test Engine Measuremer		Tin	g_C / 62 R	Н
0								
				1	PART 24 2	2G/3G/LTE B	2.3M	
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[mgp] page 40	1							
-40	-							
-	-							
		7						
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		_					_	
	30	5000		10000	15000		20000	
			Fre	equency [MHz]				
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
90.14	S	Peak	-70.16	-70.65	1.70	-1.21	-13.00	-57.16
187.14	S	Peak	-69.11	-71.75	4.24	-1.59	-13.00	-56.11
239.52	S	Peak	-68.30	-71.99	5.43	-1.74	-13.00	-55.30
353.01	S	Peak	-67.86	-71.80	6.01	-2.07	-13.00	-54.86
542.16	S	Peak	-64.56	-67.71	5.78	-2.62	-13.00	-51.56
760.41	S	Peak	-61.25	-63.61	5.37	-3.01	-13.00	-48.25

-53.67

Peak

Н

3760.00

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms\_and\_conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms\_e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this documents is unlawful and offenders may he prosecuted to the fullest extent of the law. document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134號

-59.52

12.45

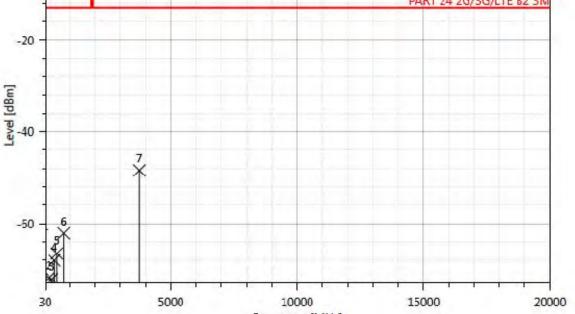
-6.60

-13.00

-40.67



**Operation Mode :** CDMA 1900 Test Date : 10/07/2016 Fundamental Frequency: 1880 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH MID Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL 0 PART 24 2G/3G/LTE 82 3M



Frequency [MHz]

Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
30.00	S	Peak	-63.42	-49.84	-12.63	-0.96	-13.00	-50.42
165.80	S	Peak	-71.93	-71.37	0.94	-1.50	-13.00	-58.93
299.66	S	Peak	-72.10	-75.92	5.77	-1.95	-13.00	-59.10
398.60	S	Peak	-68.00	-71.60	5.97	-2.37	-13.00	-55.00
497.54	S	Peak	-66.50	-70.20	6.00	-2.30	-13.00	-53.50
764.29	S	Peak	-62.14	-64.53	5.38	-2.99	-13.00	-49.14
3760.00	Н	Peak	-48.41	-54.27	12.45	-6.60	-13.00	-35.41

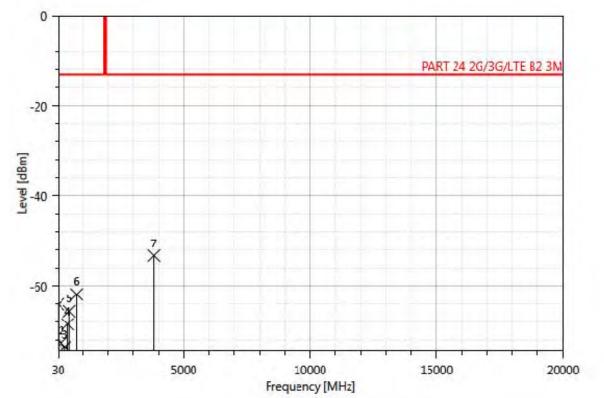


**Operation Mode :** CDMA 1900 Test Date : 10/07/2016 Fundamental Frequency: 1908.75 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 24 2G/3G/LTE B2 3M -20 .evel [dBm] 40 7 -50 5000 10000 30 15000 20000 Frequency [MHz]

Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin	
		Mode	Level	Level	Gain	Loss	@3m		
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB	
93.05	S	Peak	-69.74	-69.85	1.34	-1.22	-13.00	-56.73	
160.95	S	Peak	-68.16	-67.26	0.58	-1.48	-13.00	-55.16	
243.40	S	Peak	-67.29	-71.03	5.49	-1.75	-13.00	-54.29	
359.80	S	Peak	-67.99	-71.87	6.00	-2.12	-13.00	-54.99	
547.01	S	Peak	-63.72	-66.80	5.75	-2.67	-13.00	-50.72	
765.26	S	Peak	-61.05	-63.45	5.38	-2.98	-13.00	-48.05	
3817.50	Н	Peak	-52.19	-58.01	12.47	-6.64	-13.00	-39.19	



**Operation Mode :** CDMA 1900 Test Date : 10/07/2016 Fundamental Frequency: 1908.75 MHz Temp. / Humi. : 21 deg C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
37.76	S	Peak	-64.00	-51.85	-11.17	-0.98	-13.00	-51.00
159.01	S	Peak	-72.53	-71.53	0.47	-1.47	-13.00	-59.53
298.69	S	Peak	-73.51	-77.31	5.75	-1.95	-13.00	-60.51
412.18	S	Peak	-68.38	-71.92	5.93	-2.39	-13.00	-55.38
473.29	S	Peak	-65.53	-69.20	5.90	-2.23	-13.00	-52.53
760.41	S	Peak	-61.79	-64.14	5.37	-3.01	-13.00	-48.79
3817.50	Н	Peak	-53.17	-58.99	12.47	-6.64	-13.00	-40.17



#### **Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode**

Operation Mode : Fundamental Frequence Operation Band : EUT Pol. :	WCDMA B2 cy : 1852.4 MHz Tx CH LOW E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna Pol.	10/07/2016 21 deg_C / 62 RH Tin : VERTICAL
0			
		PART 24 20	5/3G/LTE B2 3M
-20			
- [dEm]			
40			
K	2		
-50 6	1		
<b>jK</b> 11 , 30	5000 Fre	10000 15000 quency [MHz]	20000

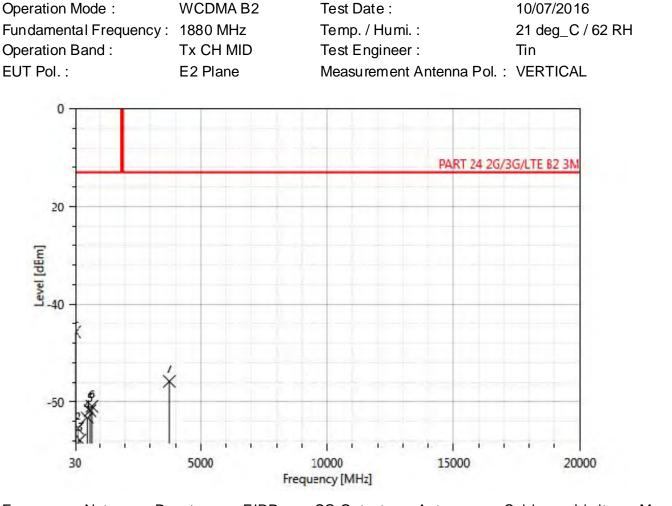
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-46.60	-34.65	-10.96	-0.99	-13.00	-33.60
102.75	S	Peak	-65.09	-64.11	0.28	-1.26	-13.00	-52.09
144.46	S	Peak	-64.42	-62.73	-0.28	-1.41	-13.00	-51.42
228.85	S	Peak	-64.91	-68.48	5.29	-1.72	-13.00	-51.91
521.79	S	Peak	-63.24	-66.72	5.89	-2.41	-13.00	-50.24
689.60	S	Peak	-61.36	-63.81	5.24	-2.79	-13.00	-48.36
3704.80	Н	Peak	-54.63	-60.49	12.44	-6.58	-13.00	-41.63



**Operation Mode :** Test Date : 10/07/2016 WCDMA B2 Fundamental Frequency: 1852.4 MHz 21 deg\_C / 62 RH Temp. / Humi. : **Operation Band :** Tx CH LOW Test Engineer : Tin EUT Pol.: E2 Plane Measurement Antenna Pol. : HORIZONTAL 0 PART 24 2G/3G/LTE B2 3N -70 [mBb] lava. 40 7 -50 5000 10000 15000 20000 30 Frequency [MHz]

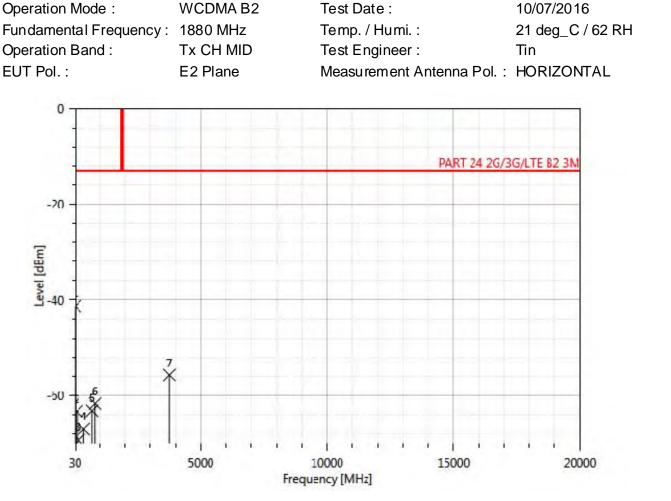
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-42.07	-29.16	-11.94	-0.97	-13.00	-29.07
102.75	S	Peak	-59.85	-58.87	0.28	-1.26	-13.00	-46.85
224.00	S	Peak	-69.38	-73.06	5.39	-1.71	-13.00	-56.38
335.55	S	Peak	-67.98	-71.99	5.95	-1.93	-13.00	-54.98
444.19	S	Peak	-65.60	-69.23	5.81	-2.18	-13.00	-52.60
513.06	S	Peak	-64.68	-68.26	5.94	-2.35	-13.00	-51.68
3704.80	Н	Peak	-54.92	-60.78	12.44	-6.58	-13.00	-41.92





Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
36.79	S	Peak	-45.62	-33.37	-11.28	-0.98	-13.00	-32.62
149.31	S	Peak	-65.42	-64.00	0.01	-1.43	-13.00	-52.42
233.70	S	Peak	-67.74	-71.34	5.33	-1.73	-13.00	-54.74
519.85	S	Peak	-63.20	-66.71	5.90	-2.39	-13.00	-50.20
624.61	S	Peak	-61.74	-64.57	5.34	-2.51	-13.00	-48.74
696.39	S	Peak	-60.88	-63.20	5.24	-2.91	-13.00	-47.88
3760.00	Н	Peak	-55.76	-61.62	12.45	-6.60	-13.00	-42.76





Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-41.27	-28.37	-11.94	-0.97	-13.00	-28.27
100.81	S	Peak	-63.29	-62.50	0.46	-1.25	-13.00	-50.29
170.65	S	Peak	-69.27	-69.11	1.36	-1.52	-13.00	-56.27
372.41	S	Peak	-67.02	-70.80	5.99	-2.21	-13.00	-54.02
699.30	S	Peak	-63.17	-65.43	5.23	-2.96	-13.00	-50.17
813.76	S	Peak	-61.68	-64.26	5.47	-2.89	-13.00	-48.68
3760.00	Н	Peak	-55.74	-61.59	12.45	-6.60	-13.00	-42.74



Operation Mode : Test Date : 10/07/2016 WCDMA B2 Fundamental Frequency: 1907.6 MHz Temp. / Humi. : 21 deg\_C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol.: E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 24 2G/3G/LTE B2 3N -20 Level [dEm] 40 -50 5000 10000 15000 20000 30 Frequency [MHz] ~ ~

Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-46.98	-35.03	-10.96	-0.99	-13.00	-33.98
97.90	S	Peak	-63.42	-62.95	0.77	-1.24	-13.00	-50.42
115.36	S	Peak	-64.72	-63.10	-0.31	-1.31	-13.00	-51.72
167.74	S	Peak	-65.04	-64.61	1.08	-1.51	-13.00	-52.04
550.89	S	Peak	-61.83	-64.85	5.73	-2.71	-13.00	-48.83
687.66	S	Peak	-60.71	-63.20	5.25	-2.76	-13.00	-47.71
3815.20	Н	Peak	-55.71	-61.54	12.46	-6.63	-13.00	-42.71



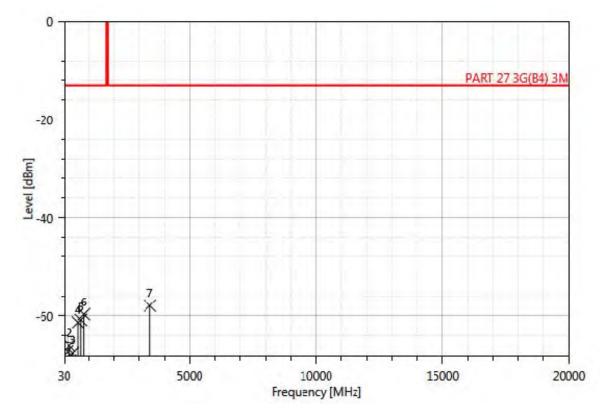
**Operation Mode :** Test Date : 10/07/2016 WCDMA B2 Fundamental Frequency: 1907.6 MHz Temp. / Humi. : 21 deg\_C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol.: E2 Plane Measurement Antenna Pol. : HORIZONTAL 0 PART 24 2G/3G/LTE B2 3N -20 [mBb] lava. 40 -50 5000 10000 15000 20000 30 Frequency [MHz]

Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-44.19	-31.28	-11.94	-0.97	-13.00	-31.19
100.81	S	Peak	-59.91	-59.12	0.46	-1.25	-13.00	-46.91
139.61	S	Peak	-66.93	-65.00	-0.55	-1.39	-13.00	-53.93
221.09	S	Peak	-69.11	-72.85	5.45	-1.71	-13.00	-56.11
371.44	S	Peak	-65.38	-69.17	5.99	-2.21	-13.00	-52.38
519.85	S	Peak	-65.75	-69.25	5.90	-2.39	-13.00	-52.75
3815.20	Н	Peak	-55.61	-61.44	12.46	-6.63	-13.00	-42.61



## **Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode**

Operation Mode :	WCDMA B4	Test Date :	10/07/2016
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
167.74	S	Peak	-67.25	-66.82	1.08	-1.51	-13.00	-54.25
236.61	S	Peak	-66.07	-69.71	5.38	-1.73	-13.00	-53.07
379.20	S	Peak	-67.57	-71.30	5.99	-2.26	-13.00	-54.57
584.84	S	Peak	-61.38	-64.09	5.49	-2.79	-13.00	-48.38
691.54	S	Peak	-60.84	-63.26	5.24	-2.83	-13.00	-47.84
807.94	S	Peak	-59.71	-62.29	5.48	-2.89	-13.00	-46.71
3424.80	Н	Peak	-57.95	-63.99	12.27	-6.23	-13.00	-44.95



Operation Mode :	WCDMA B4	Test Date :	10/07/2016
Fundamental Frequency	y: 1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Ante	enna Pol.: HORIZONTAL
0			
			PART 27 3G(B4) 3M
-20			
8			
-			
dBr			
[ugp] -40 -			
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de como como como como como como como com			
	7 Ж		
-50 -6	1		
1.		0.0.0	
B			
30	5000	10000	15000 20000
		Frequency [MHz]	

Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
37.76	S	Peak	-63.53	-51.38	-11.17	-0.98	-13.00	-50.53
159.01	S	Peak	-71.56	-70.55	0.47	-1.47	-13.00	-58.56
216.24	S	Peak	-72.36	-76.22	5.55	-1.69	-13.00	-59.36
367.56	S	Peak	-67.24	-71.06	6.00	-2.18	-13.00	-54.24
520.82	S	Peak	-66.62	-70.12	5.89	-2.40	-13.00	-53.62
647.89	S	Peak	-64.70	-67.58	5.29	-2.41	-13.00	-51.70
3424.80	Н	Peak	-57.91	-63.95	12.27	-6.23	-13.00	-44.91



**Operation Mode :** WCDMA B4 Test Date : 10/07/2016 Fundamental Frequency: 1732.6 MHz Temp. / Humi. : 22 deg C / 62 RH **Operation Band :** Tx CH MID Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 27 3G(B4) 3N -20 evel [dBm] 40 7 -50 5000 10000 15000 30 20000 Frequency [MHz] EIRP SG Output Freq. Note Decetor Antenna Cable Limit Margin Gain @3m Mode Level Level Loss MHz F/H/E/S QP/AV/PK dBm dBm dBi dB dBm dB 95.96 S Peak -69.92 -69.68 0.99 -1.23 -13.00 -56.92

-68.24

-68.88

-63.97

-63.34

-62.40

-63.47

1.89

5.93

5.33

5.24

5.48

12.34

-1.53

-2.24

-2.46

-2.79

-2.89

-6.25

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-54.88

-52.19

-48.11

-47.88

-46.81

-44.38

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Peak

Peak

Peak

Peak

Peak

Peak

-67.88

-65.19

-61.11

-60.88

-59.81

-57.38

S

S

S

S

S

Н

173.56

481.05

631.40

689.60

807.94

3465.20

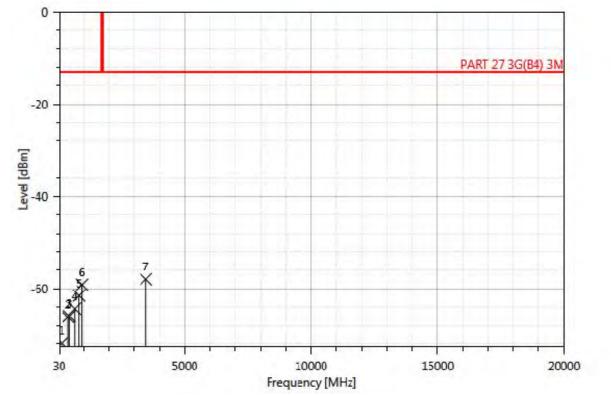
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RH

Operation Mode :	WCDMA B4	Test Date :	10/07/2016
Fundamental Frequency:	1732.6 MHz	Temp. / Humi. :	22 deg_C / 62
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol.:	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
146.40	S	Peak	-71.79	-70.21	-0.16	-1.42	-13.00	-58.79
388.90	S	Peak	-66.15	-69.82	5.98	-2.31	-13.00	-53.15
440.31	S	Peak	-65.91	-69.53	5.83	-2.20	-13.00	-52.91
652.74	S	Peak	-64.30	-67.19	5.29	-2.40	-13.00	-51.30
813.76	S	Peak	-61.47	-64.05	5.47	-2.89	-13.00	-48.47
927.25	S	Peak	-59.11	-61.15	5.29	-3.25	-13.00	-46.11
3465.20	Н	Peak	-57.93	-64.02	12.34	-6.25	-13.00	-44.93



925.31

3505.20

S

Н

**Operation Mode :** WCDMA B4 Test Date : 10/07/2016 Fundamental Frequency: 1752.6 MHz Temp. / Humi. : 22 deg C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 27 3G(B4) 3N 20 evel [dBm] 40 7 -50 5000 10000 15000 30 20000 Frequency [MHz] EIRP SG Output Freq. Note Decetor Antenna Cable Limit Margin Gain @3m Mode Level Level Loss MHz F/H/E/S QP/AV/PK dBm dBm dBi dB dBm dB 146.40 S Peak -70.09 -68.52 -0.16 -1.42 -13.00 -57.09 S 241.46 Peak -68.03 -71.74 5.46 -1.74 -13.00 -55.03 464.56 S Peak -65.82 -69.46 5.86 -2.21 -13.00 -52.82 631.40 S Peak -62.09 -64.95 5.33 -2.46 -13.00-49.09 765.26 S Peak -60.76 -63.16 5.38 -2.98 -13.00 -47.76

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

-57.63

-57.91

Peak

Peak

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5.30

12.40

-59.67

-63.85

-13.00

-13.00

-3.26

-6.47

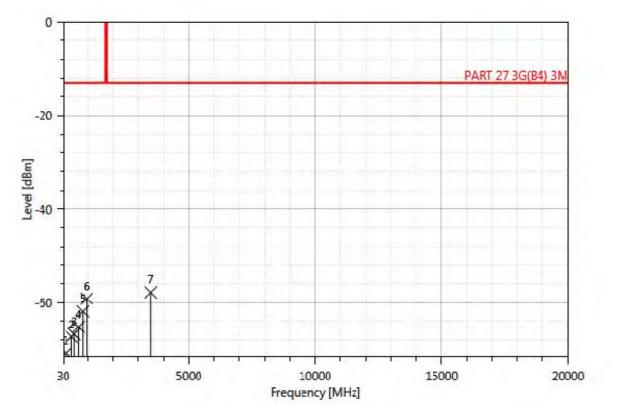
-44.63

-44.91



**Operation Mode :** WCDMA B4 Fundamental Frequency: 1752.6 MHz **Operation Band :** Tx CH HIGH EUT Pol. : E2 Plane

Test Date : 10/07/2016 Temp. / Humi. : 22 deg C / 62 RH Test Engineer : Tin Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
149.31	S	Peak	-70.79	-69.37	0.01	-1.43	-13.00	-57.79
367.56	S	Peak	-67.25	-71.06	6.00	-2.18	-13.00	-54.25
473.29	S	Peak	-66.73	-70.40	5.90	-2.23	-13.00	-53.73
641.10	S	Peak	-65.17	-68.05	5.31	-2.43	-13.00	-52.17
808.91	S	Peak	-61.85	-64.44	5.48	-2.89	-13.00	-48.85
963.14	S	Peak	-59.14	-61.46	5.46	-3.13	-13.00	-46.14
3505.20	Н	Peak	-57.80	-63.74	12.40	-6.47	-13.00	-44.80



## **Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode**

Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :		WCDMA B5 826.4 MHz Tx CH LOW E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna Pol.	10/07/2016 21 deg_C / 62 RH Tin : VERTICAL
0 1				
-			PART 22 2G	/3G/LTE B5 3M
-20 -				
Ē				
Level [dEm]				
- tx	:			
-50 -				
۴ 30	略来II, 」 ) 20	000 4000 Frequ	6000 8000 ency [MHz]	10000
Freq.	Note D	ecetor ERP	SG Output Antenna Ca	ble Limit Marg

	Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin	
			Mode	Level	Level	Gain	Loss	@3m		
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	_
	39.70	S	Peak	-53.53	-39.43	-13.11	-0.99	-13.00	-40.53	
	93.05	S	Peak	-69.48	-67.45	-0.81	-1.22	-13.00	-56.48	
	129.91	S	Peak	-68.06	-64.06	-2.64	-1.36	-13.00	-55.06	
	159.98	S	Peak	-69.45	-66.33	-1.64	-1.48	-13.00	-56.45	
	398.60	S	Peak	-69.20	-70.65	3.82	-2.37	-13.00	-56.20	
	529.55	S	Peak	-64.94	-66.14	3.70	-2.49	-13.00	-51.94	
	1652.80	Н	Peak	-64.67	-67.55	7.12	-4.24	-13.00	-51.67	



Operation Fundamer Operation EUT Pol.:	ntal Frequency : Band :	WCDMA 826.4 MH Tx CH LC E2 Plane	łz DW	Test Date : Temp. / Hur Test Engine Measureme	er:	2 T	0/07/2016 21 deg_C / 62 īn HORIZONTA	
0						11		
					PART	22 2G/3G	LTE B5 3M	
-20								
[m]	-							
[mgb] http://wgb								
	-							
-50	k 7							
		++						
	30 2	000	4000 Frequ	6000 Jency [MHz]	8	3000	10000	
Freq.	Note [	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
N 41 1-		Mode	Level	Level	Gain	Loss	@3m	
MHz 37.76	F/H/E/SQ	P/AV/PK Peak	dBm -60.27	dBm -45.97	dBd -13.32	dB -0.98	dBm -13.00	dB -47.27
51.10	0	· Jun	00.L1	10.01	10.02	0.00	10.00	

-68.62

-73.00

-72.34

-68.87

-67.41

-64.42

Peak

Peak

Peak

Peak

Peak

Peak

S

S

S

S

S

Н

102.75

173.56

228.85

377.26

473.29

1652.80

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-65.49

-71.20

-73.76

-70.47

-68.93

-67.30

-1.26

-1.53

-1.72

-2.24

-2.23

-4.24

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-1.87

-0.26

3.14

3.84

3.75

7.12

-55.62

-60.00

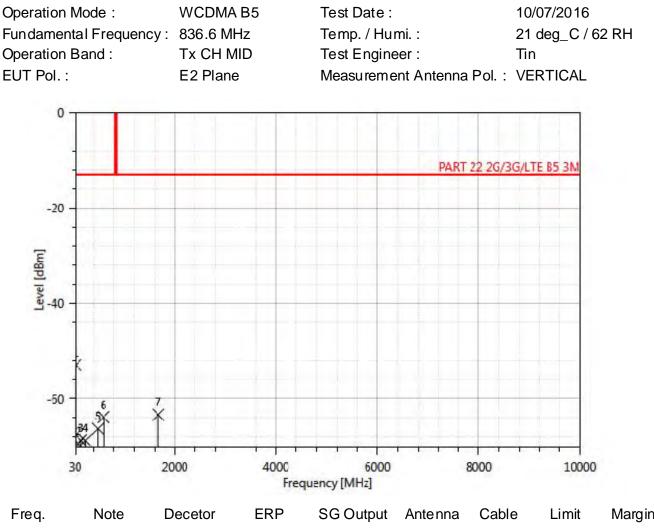
-59.34

-55.87

-54.41

-51.42





	⊢req.	Note	Decetor	ERP	SGOutput	Antenna	Cable	Limit	Margin	
			Mode	Level	Level	Gain	Loss	@3m		
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	_
	37.76	S	Peak	-52.96	-38.66	-13.32	-0.98	-13.00	-39.96	-
	93.05	S	Peak	-69.48	-67.45	-0.81	-1.22	-13.00	-56.48	
	146.40	S	Peak	-68.74	-65.02	-2.31	-1.42	-13.00	-55.74	
	236.61	S	Peak	-68.77	-70.27	3.23	-1.73	-13.00	-55.77	
	478.14	S	Peak	-66.35	-67.88	3.77	-2.24	-13.00	-53.35	
	590.66	S	Peak	-63.90	-64.41	3.31	-2.80	-13.00	-50.90	
	1673.20	Н	Peak	-63.37	-66.28	7.20	-4.29	-13.00	-50.37	



519.85

643.04

1673.20

S

S

Н

Operation I Fundament Operation I EUT Pol. :	tal Frequen	WCDMA cy: 836.6 MI Tx CH M E2 Plane	Hz 11D	Test Date : Temp. / Hur Test Engine Measureme	er:	2′ Ti			
0 -									
					PART	22 2G/3G/I	TE 85 3M		
-20 -									
[mgp] -40									
-40 -						_			
	k								
-50 -	55	7 X							
		X							
3	1 <del>221,11, , ,</del> 10	2000	4000	6000		3000	10000		
				iency [MHz]			10000		
Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin	
		Mode	Level	Level	Gain	Loss	@3m		
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
32.91	S	Peak	-57.21	-42.15	-14.09	-0.97	-13.00	-44.21	
103.72	S	Peak	-69.04	-65.83	-1.95	-1.26	-13.00	-56.04	
214.30	S	Peak	-72.61	-74.37	3.44	-1.68	-13.00	-59.61	
343.31	S	Peak	-68.92	-70.76	3.83	-1.99	-13.00	-55.92	

-67.08

-66.41

-66.03

Peak

Peak

Peak

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-68.44

-67.14

-68.94

3.75

3.15

7.20

-2.39

-2.43

-4.29

-13.00

-13.00

-13.00

-54.08

-53.41

-53.03



Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :		WCDMA cy: 846.6 MI Tx CH H E2 Plane	Hz IGH	Test Date : Temp. / Hur Test Engine Measureme	er:	-	10/07/2016 21 deg_C / 6 Tin VERTICAL	2 RH
Ū					PART	T 22 2G/3G	/LTE B5 3M	
-20								
Level [dBm] 6	-							
-50	- - - - × - *	7 *						
	30	2000	4000 Freq	6000 uency [MHz]		8000	10000	
Freq.	Note	Decetor Mode	ERP Level	SG Output Le vel	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
39.70	S	Peak	-52.12	-38.02	-13.11	-0.99	-13.00	-39.12

Peak

Peak

Peak

Peak

Peak

Peak

-68.99

-69.62

-68.56

-68.56

-62.53

-65.45

95.96

148.34

170.65

235.64

624.61

1693.20

S

S

S

S

S

Н

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-66.60

-66.01

-66.25

-70.04

-63.21

-68.42

-1.16

-2.19

-0.79

3.21

3.19

7.27

-1.23

-1.42

-1.52

-1.73

-2.51

-4.30

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-55.99

-56.62

-55.56

-55.56

-49.53

-52.45