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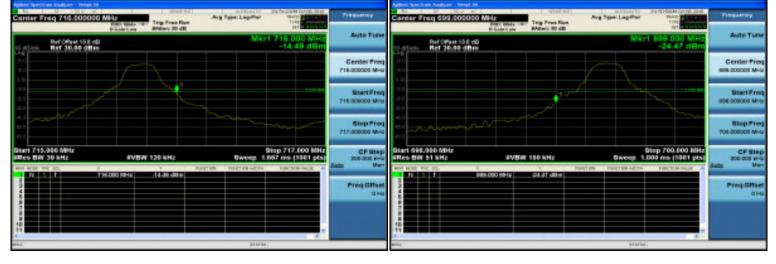
Band Edge_Band12 3MHz_QPSK 1 0_LowCH23025-700.5

Band Edge_Band12 3MHz_QPSK 15 0_HighCH23165-714.5



Band Edge_Band12 3MHz_QPSK 1 14_HighCH23165-714.5

Band Edge_Band12 5MHz_QPSK 1 0_LowCH23035-701.5



Band Edge_Band12 3MHz_QPSK 15 0_LowCH23025-700.5

Band Edge_Band12 5MHz_QPSK 1 24_HighCH23155-713.5



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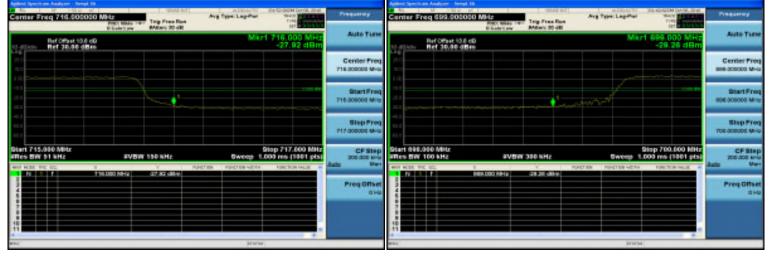
Band Edge_Band12 5MHz_QPSK 25 0_LowCH23035-701.5

Band Edge_Band12 10MHz_QPSK 1 49_HighCH23130-711



Band Edge_Band12 5MHz_QPSK 25 0_HighCH23155-713.5

Band Edge_Band12 10MHz_QPSK 50 0_LowCH23060-704



Band Edge_Band12 10MHz_QPSK 1 0_LowCH23060-704

Band Edge Band12 10MHz QPSK 50 0 HighCH23130-711



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Band Edge_Band17 5MHz_QPSK 1 0_LowCH23755-706.5

Band Edge_Band17 5MHz_QPSK 25 0_HighCH23825-713.5



Band Edge_Band17 5MHz_QPSK 1 24_HighCH23825-713.5



Band Edge_Band17 5MHz_QPSK 25 0_LowCH23755-706.5

Band Edge_Band17 10MHz_QPSK 1 0_LowCH23780-709



Band Edge Band17 10MHz QPSK 1 49 HighCH23800-711



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Band Edge_Band17 10MHz_QPSK 50 0_LowCH23780-709

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Def Offset 10.6 cD Ref 30.00 dBas		Mikr	-30.51 dBm	Auto Tune
80 80				Center Pres 704 009000 M-0
				Start Freq 702.00000 Mile
				Step Freq 706 accord 44-0
Mart 703.000 Mills Res BW 100 kHz		бисер 1.	Nop 705.000 MHz 000 ms (1901 pts) Taktor Max	CF Step 200-000 arts
	1000 MH+a 310 MH+a			Preg Offset ako
			-	

Band Edge_Band17 10MHz_QPSK 50 0_HighCH23800-711



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30MHz~3GHz WCDMA B5 LowCH4132-826.4

3GHz~10GHz_WCDMA_B5_MidCH4183-836.6

30MHz~3GHz_WCDMA_B5_HighCH4233-846.6

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Center Freq 1.515000000 GHz PM0: Feet Conter: 40 dB Avg Type: Log-Pwr PGalant.cw # Are: 40 dB Conter: 40 dB	Frequency	Center Freq 6.500000000 GHz Trig: Free Run PMO: Fest Control Free Run FGeinter: 40 dB Control Free Run	Frequency
Ref Offset 13.6 dB Mkr3 2.479 2 GHz 10 dB/div Ref 40.00 dBm -25.61 dBm		Ref Offset 13.6 dB Mkr1 4.043 GHz 10 dB/div Ref 40.00 dBm -21.31 dBm	Auto Tune
	Center Freq 1.515000000 GHz	300 300 100	Center Freq 6.500000000 GHz
	Start Freq 30.000000 MHz		Start Freq 3.000000000 GHz
00.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stop Freq 3.00000000 GHz	an b American and a second s	Stop Freq 10.00000000 GHz
Start 0.030 GHz #VBW 1.0 MHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (1001 pts) BR MODE TKS SQL X Y Function (FTM Function worth Func	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (100 1Pz) wmr MODE FC Sci. x Y Function Function worth Function worth	CF Step 700.000000 MHz Auto Man
1 N 1 f B289 MHz 2403 dBm 2 N 1 f 1628 3 GHz 328 0 dBm 3 N 1 f 2479 2 GHz 328 60 dBm 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Freq Offset 0 Hz	1 N 1 f 4.043 GHz -21.31 dBm 2	Freq Offset 0 Hz
	Scale Type	9 6 9	Scale Type
			and an an and a second
HSG STATUS		M50 ETATUS	

3GHz~10GHz_WCDMA_B5_LowCH4132-826.4

Avg Type: L Avg Type: 0 GHz 00 GHz enter Freg 1.515 Trig: Free Run Trig: Free Run Auto Tu Auto Tu Ref Offset 13.6 dB Ref 40.00 dBm Ref Offset 13.6 dB Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre **♦**³ Stop Fre Stop Fre 3.000 GHz Stop 10.000 GH 0.030 GHz CF Step Stop 3.0 CF Ste BW 10 MH #VBW 1.0 MH 24.38 dBm -27.11 dBm -25.57 dBm 846 8 MHz 1.693 2 GHz 2.639 8 GHz Freq Off Freq Offs OH OH Scale Typ Scale Typ

30MHz~3GHz_WCDMA_B5_MidCH4183-836.6

3GHz~10GHz_WCDMA_B5_HighCH4233-846.6



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3GHz~10GHz_HSDPA_B5_MidCH4183-836.6

30MHz~3GHz_HSDPA_B5_HighCH4233-846.6



30MHz~3GHz_HSDPA_B5_LowCH4132-826.4

🚢 Keynight:Spectrum Analyzer - Swept SA		0.0	Kayaight Spectrum Analyzer - Swept SA.	0
Center Freq 1.515000000 GHz PND: Fast Trig: Free Run FSeinLow #Atten: 40 dB	AUGN AUTO 05-53:57 PM Oct 83, 2014 Avg Type: Log-Pwr TRACE 0 2 2 4 5 TYPE 15 OFT	Frequency	00 RL M 30.0 CC 3100 CH2 3100	Frequency
Ref Offset 13.6 dB	Mkr3 2.479 2 GHz -26.35 dBm	Auto Tune	Ref Offset 13.6 dB	Auto Tune
		Center Freq 1.515000000 GHz		Center Freq 6.50000000 GHz
1 20 -000 -000		Start Freq 30.000000 MHz	0.00 -000 -000 -000 -000 -000 -000 -000	Start Freq 3.00000000 GHz
 30 D kysikiraaping hag hag hag hag hag hag hag hag hag ha		Stop Freq 3.000000000 GHz		Stop Freq 10.000000000 GHz
	Stop 3.000 GHz Sweep 2.000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pts) WRR MODE TRC; SO. X Y FUNCTION FUNCTION WOTH FUNCTION WOTH	CF Step 700.000000 MHz Auto Man
1 N 1 f E26.0 MH2 23.39 dBm 2 N 1 f 1.6628 dBH2 37.21 dBm 3 N 1 f 2.479 2 GHz -26.35 dBm 4		Freq Offset 0 Hz	1 N 1 f 3.763 GHz -22.33 dBm	Freq Offset 0 Hz
7 6 9 10 11		Scale Type Log Lin	7 9 10	Scale Type
* n MBG	STATUS		MISO STATUS	

3GHz~10GHz_HSDPA_B5_LowCH4132-826.4

Avg Type: L Avg Type: 0 GHz 0 GHz Trig: Free Run a 1.515 Trig: Free Run Auto Tu Auto Tu Ref Offset 13.6 dB Ref 40.00 dBm ef Offset 13.6 dB ef 40.00 dBm Center Fre Center Fre Start Fre Start Fre **♦**³ Stop Fre Stop Fre Stop 10.000 GH 0.030 GHz 3.000 GHz CF Step Stop 3.0 CF Ste #VBW 10 MH #VBW 1.0 MH 23.81 dBm -28.65 dBm -25.61 dBm 846 8 MHz 1.693 2 GHz 2.639 8 GHz Freq Off Freq Offs OH OH Scale Typ Scale Typ

30MHz~3GHz_HSDPA_B5_MidCH4183-836.6

3GHz~10GHz_HSDPA_B5_HighCH4233-846.6



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3GHz~10GHz_HSUPA_B5_MidCH4183-836.6

30MHz~3GHz_HSUPA_B5_HighCH4233-846.6



30MHz~3GHz_HSUPA_B5_LowCH4132-826.4

Keynight Spectrum Analyzer - Swept SA.		0.0	Keynight:Spectrum Analyzer - Swept SA.	10 10 10 10
Center Freq 1.515000000 GHz PND: Fest Trig: Free Run FSainLow #Atten: 40 dB	AUGN AUTO 06:00:18 PM Oct 82, 2014 Avg Type: Log-Pwr TRACE D2: CCT TYPE CCT Putter	Frequency	0 €L 0F 35.0 C 1 SUBSEINT ALOKANG 00000 GHZ Conter Frag 5.500000000 GHZ Trig: FreeRun Avg Type: Log-Pwr 1940 F3.2 PHO: Fast C Trig: FreeRun Avg Type: Log-Pwr 1940 F3.2 FGeinture: 4 dB 0 F1 4400	Frequency
Ref Offset 13.6 dB	Mkr3 2.479 2 GHz -25.43 dBm	Auto Tune	Ref Offset 13.6 dB Mkr1 4.071 GF	Auto Tune
		Center Freq 1.515000000 GHz		Center Freq 6.500000000 GHz
9 20 	and a second	Start Freq 30.000000 MHz		Start Freq 3.000000000 GHz
30 D Decements where information and the control for additional data and the control of the c		Stop Freq 3.000000000 GHz	State of the second	Stop Freq 10.000000000 GHz
Start 0.030 GHz #VBW 1.0 MHz #Res BW 1.0 MHz #VBW 1.0 MHz MNR MODE TRC SQL X Y FM 1 1 1 E26.0 MHz 22.88 dBm	Stop 3.000 GHz Sweep 2.000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pi Sweep 11.67 ms (1001 pi 1.67 ms (1001 pi Sweep 11.67 ms (1001 pi Sweep 11.6	CF Step 700.000000 MHz Auto Man
2 N 1 f 2.40.9 m/2 2.28 a B m 2 N 1 f 1.652 8 GHz -28.8 d B m 3 N 1 f 2.479 2 GHz -25.43 d B m 4 5		Freq Offset 0 Hz	2	Freq Offset 0 Hz
7 8 9 10		Scale Type		Scale Type
Miss	STATUS		MISS ETATUS	

3GHz~10GHz_HSUPA_B5_LowCH4132-826.4

Avg Type: L Avg Type: 0 GHz 0 GHz Trig: Free Run a 1.515 Trig: Free Run Auto Tu Auto Tu ef Offset 13.6 dB ef 40.00 dBm Ref Offset 13.6 dB Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre **♦**³ Stop Fre Stop Fre Stop 10.000 GH 0.030 GHz 3.000 GHz CF Step Stop 3.0 CF Ste #VBW 10 MH #VBW 1.0 MH 20 24.30 dBm -28.21 dBm -25.55 dBm 846 8 MHz 1.693 2 GHz 2.639 8 GHz Freq Off Freq Offs OH OH Scale Typ Scale Typ

30MHz~3GHz_HSUPA_B5_MidCH4183-836.6

3GHz~10GHz_HSUPA_B5_HighCH4233-846.6



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30MHz~3GHz WCDMA B4 LowCH1312-1712.4

3GHz~10GHz_WCDMA_B4_MidCH1413-1732.6

Asystem spectrum waterow - swept sw.	1-2-01-0-1	Anyogencipeoun warayow - awapt set	1-2-0.94
RL Nr 30.0 CC 3466.341 ALDR AUTO 772-242.04 NUTO 772-742.04 NU	Frequency	ME MP Static Sec static sec Auto Auro Descention and auto Center Freq 11.500000000 GHz Freq Freq Ministration and auto auto auto auto auto auto auto auto	Frequency
Ref Offset 14 dB Mkr1 1.714 0 GF 0 dB/div Ref 40.00 dBm 23.71 dB	12 Auto Tune m	Ref Offset 14 dB Mkr3 5.198 GHz 10 dB/div Ref 40.00 dBm -24.70 dBm	Auto Tune
	Center Freq 1.515000000 GHz		Center Freq 11.50000000 GHz
0:00	30.000000 MPt2		Start Freq 3.000000000 GHz
	Stop Freq 3.00000000 GHz		Stop Freq 20.000000000 GHz
Start 0.030 GHz Stop 3.000 GH Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (1001 pi Res Robe Hc Sol, x	ts) CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) wes Mote First Sci. x Y Puechow Function and Puechows and P	CF Step 1.700000000 GH
1 N 1 f 1.714 0 GHz 23.71 dBm 2 3 3 4 5 5	Freq Offset	1 N 1 f 19,303 GHz -20.68 dBm 2 N 1 f 3,465 GHz -27.49 dBm N 1 f 6,199 GHz -27.49 dBm 4 6 6	Freq Offset 0 Hz
	Scale Type		Scale Type
	- Log Lin		LUG LUG
50 STATUS			L

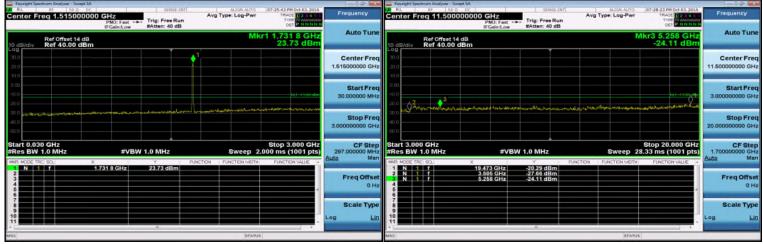
3GHz~10GHz_WCDMA_B4_LowCH1312-1712.4

30MHz~3GHz_WCDMA_B4_HighCH1513-1752.6

Kaynight Spectrum Analyzer - Swept SA	100 1 SP 200	Kayaight Spactnum; Analyzar - Swapt SA.	100100
RL pr SD 00 CC SD 00000000 GHz Allow 2000 Al	Frequency	OF ALD AUTO OFFICE ALD AUTO <	Frequency
Ref Offset 14 dB Mkr3 5.137 GHz 10 dB/div Ref 40.00 dBm -25.23 dBm	Auto Tune	Ref Offset 14 dB Mkr1 1.752 6 GHz 10 dB/div Ref 40.00 dBm 23.47 dBm	Auto Tune
	Center Freq 11.500000000 GHz	30.0 30.0 160	Center Freq 1.515000000 GHz
2.00 -0.	Start Freq 3.000000000 GHz	2 22	Start Freq 30.000000 MHz
	Stop Freq 20.000000000 GHz		Stop Freq 3.000000000 GHz
Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) #W NDE NO SQL X Y Evention in Eventory in Even	CF Step 1.700000000 GHz Auto Man	Start 0.030 GHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 mms (1001 pts) WBR MODE FIVE SQL X PUNCTON FIVETON FIVETON FIVETON	CF Step 297.000000 MHz Auto Mar
1 N 1 f 192010Hz -30.15 dBm F N 1 f 3.425 GHz -38.05 dBm N 1 f 5.137 GHz -35.23 dBm 4	Freq Offset 0 Hz	N 1 7 1.752 6 GHz 23.47 dBm	Freq Offset 0 Hz
	Scale Type	7 9 10	Scale Type
NISS STATUS		MBQ ETATUS	

30MHz~3GHz_WCDMA_B4_MidCH1413-1732.6

3GHz~10GHz_WCDMA_B4_HighCH1513-1752.6



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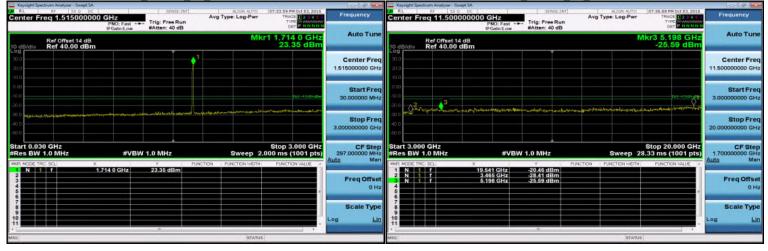
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3GHz~10GHz_HSDPA_B4_MidCH1413-1732.6



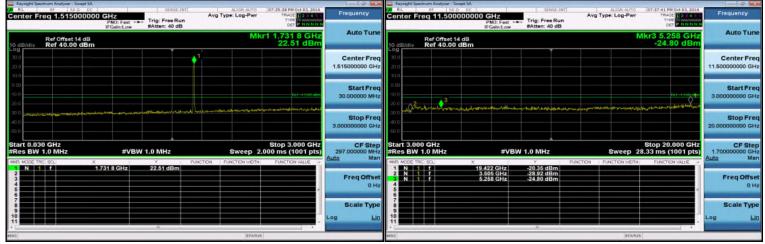
3GHz~10GHz_HSDPA_B4_LowCH1312-1712.4

30MHz~3GHz_HSDPA_B4_HighCH1513-1752.6

Keynight Spectrum Analyzer - Swept SA					Keynight:Spectrum Analyzer - Swept S				100100
Center Freq 11.50000000		Aug Type: Log-Pwr	07:34:19 PM 0:0 03, 2014 TRACE 1 2 3 4 1 TYPE N WANNANG DET P 110 70 00 0	Frequency	Center Freq 1.5150000		Avg Type: Log-Pwr	07:37:19 PM 0:d 03, 2016 TRACE 1 2 3 4 9 TYPE P WWWWWWW DET P WWWWWWW	Frequency
Ref Offset 14 dB		Mk	r3 5.137 GHz -24.03 dBm	Auto Tune	10 dB/div Ref 0ffset 14 dB	a m	Mkr	1 1.752 6 GHz 23.13 dBm	Auto Tune
30.0 30.0 10.0				Center Freq 11.50000000 GHz	30.0 30.0 10.0				Center Freq 1.515000000 GHz
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10 0				Stop Freq 20.00000000 GHz	30.0 2007-00-00-00-00-00-00-00-00-00-00-00-00-	an, ann ai Bhing Inge ng	I have a set of the se	nder ger Landburg (1920-1920-1920)	Stop Free 3.000000000 GH
Start 3,000 GHz #Res BW 1.0 MHz WRR MODE TRC SQ. X	#VBW 1.0 MHz	Sweep 28.	Stop 20.000 GHz 33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man	Start 0,030 GHz #Res BW 1.0 MHz		Sweep 2.0	Stop 3.000 GHz 00 ms (1001 pts)	CF Step 297.000000 MHz Auto Mar
2 N 1 f	18.861 GHz -19.60 dBm 3.425 GHz -29.39 dBm 6.137 GHz -24.03 dBm			Freq Offset 0 Hz	1 N 1 I 2 3 4 4 5	1.752 6 GHz 23.13 dBm			Freq Offset 0 Hz
9 9 10				Scale Type	7 8 9 10				Scale Type
Dia d	n	STATUS			MISG		STATUS		

30MHz~3GHz_HSDPA_B4_MidCH1413-1732.6

3GHz~10GHz_HSDPA_B4_HighCH1513-1752.6



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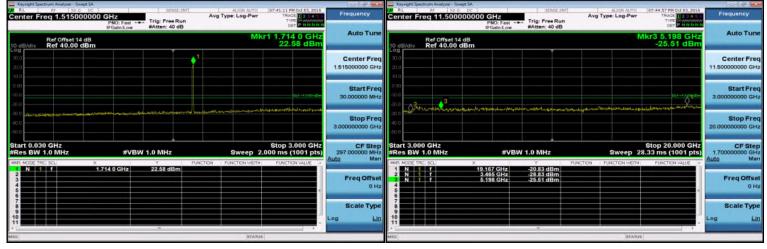
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30MHz~3GHz_HSUPA_B4_LowCH1312-1712.4

3GHz~10GHz_HSUPA_B4_MidCH1413-1732.6



3GHz~10GHz_HSUPA_B4_LowCH1312-1712.4

30MHz~3GHz_HSUPA_B4_HighCH1513-1752.6

Keynight Spectrum Analyzer - Swept SA					Keynight Spectrum Analyzer - Swep			a mount with the discount of	100 M 20
Center Freq 11.50000000	DO GHZ PND: Fest Trig: Free Run IFGainiLow #Atten: 40 dB	Aug Type: Log-Pwr	TRACE 2 2 4 5 1 TRACE 2 2 4 5 1 TYPE NUMBER OF	Frequency	Center Freq 1.515000		Avg Type: Log-Pwr	D7:46:14 PM Oct 82, 2014 TRACE 12:34 4 TYPE PLOTONOMIC DET PLOTONOMIC	Frequency
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30.0 30.0 10.0				Center Freq 11.50000000 GHz	31.0 31.0				Center Freq 1.515000000 GHz
2 20 -000 -300 ∧3	وروفقر وإروين كالرجاد تحتر والتأوين والمحمد والمراجع فاد		ni ing pu	Start Freq 3.000000000 GHz	10.00			DL1-4500-DH	Start Freq 30.000000 MHz
30 0 -40 0 -50 0				Stop Freq 20.00000000 GHz	30 0 -40 0 -50 0	alaan daga ay kalangga may naka ni ang kalang ka	فە مەمە يدە بەمەمەشلەدە ئالغانىيە بى _{رىي} ارلى _ل	ongula alima autor humana andir	Stop Freq 3.000000000 GHz
Start 3,000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 28.33	pp 20.000 GHz ms (1001 pts)	CF Step 1.70000000 GHz Auto Man	Start 0.030 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 2.0	Stop 3.000 GHz 00 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
	19.364 GHz -19.90 dBm 3.425 GHz -28.14 dBm 5.137 GHz -25.88 dBm			Freq Offset 0 Hz	1 N 1 F	1.752 6 GHz 22.75 dBm			Freq Offset 0 Hz
9 9 10			-	Scale Type	7 8 9 10			-	Scale Type
* Set		STATUS	1.		Med	19	STATUS		

30MHz~3GHz_HSUPA_B4_MidCH1413-1732.6

3GHz~10GHz_HSUPA_B4_HighCH1513-1752.6



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Report No.: ER/2018/60078 Page 145 of 265

30MHz~3GHz_WCDMA_B2_LowCH9262-1852.4

3GHz~10GHz_WCDMA_B2_MidCH9400-1880

Center Freq 1.515000000 GHz PN0: Fest C	SERSESHT ALION AUTO Avg Type: Log-Pwr Trig: Free Run #Atten: 40 dB	07:01:14 PM Oct 83, 2014		RL RF 1500 DC 1 Center Freq 11.50000000	O GHZ PNO: Fest C Trig: Free Run #Atten: 40 dB	ALIGN AUTO 07-03:15 PM Oct 03, 2016 Avg Type: Log-Pwr TRACE D CONT TYPE D CONT DET PUTCTURE	Frequency
Ref Offset 14 dB		r1 1.853 6 GHz 23.22 dBm	Auto Tune	Ref Offset 14 dB	In community and	Mkr1 19.252 GHz -20.10 dBm	Auto Tune
200 200			Center Freq 15000000 GHz	20.0 20.0			Center Freq 11.500000000 GHz
1 30			Start Freq 10.000000 MHz	0.00 -00.0 -00.0		مر المراجع المربح الم	Start Freq 3.000000000 GHz
30 D 44-94 44 45 45 45 45 45 45 45 45 45 45 45 45	and a second		Stop Freq 00000000 GHz	30 0			Stop Freq 20.000000000 GHz
Start 0.030 GHz #Res BW 1.0 MHz #VBW 1.	.0 MHz Sweep 2	Stop 3.000 GHz 000 ms (1001 pts) FUNCTION VALUE	CF Step 7.000000 MHz Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 1 f 1.851 6 GHz 3 4 5	23.22 dBm		Freq Offset 0 Hz	1 N 1 f 1 2 3 4 5	9.262 GHz _20.10 dBm		Freq Offset 0 Hz
6 7 8 9 10 11		Log	Scale Type	6 7 8 9 10			Scale Type
A Determined and the set of the s	n STATU:			Mag	n	STATUS	

3GHz~10GHz_WCDMA_B2_LowCH9262-1852.4

30MHz~3GHz_WCDMA_B2_HighCH9538-1907.6

					1
Frequency	Center Freq 1.515000000 G	PND: Fest C Trig: Free Run	Avg Type: Log-Pwr	07:04:09 PM Oct 83, 2016 TRACE 1 2 4 4 5 TYPE NUMBER OF THE DET P TO THE OF	Frequency
Auto Tune	Ref Offset 14 dB		Mkr	1 1.907 0 GHz 23.56 dBm	Auto Tune
Center Freq 11.50000000 GHz	30.0		• ¹		Center Freq 1.515000000 GHz
Start Freq 3.000000000 GHz	10.0 -10.0 -20.0			ELT-4568-40e	Start Freq 30.000000 MHz
	30.0 <u>alphonetary approximation of the statement</u> 40.0	ing the distance in the trade of the second s	and a second	an a	Stop Freq 3.000000000 GHz
1.700000000 GHz	Start 0.030 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz		Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH Auto Mar
Freq Offset 0 Hz	1 N 1 f 1.90 2 3 4 5	7 0 GHz 23.56 dBm			Freq Offset 0 Hz
Scale Type	7 8 9				Scale Type
- Log Lin	11			-	Log Lin
	Frequency Auto Tune Auto Tune Center Freq 11.50000000 GHz Stop Freq 20.50000000 GHz CF Step 1.70000000 GHz Auto Man Freq Offset OHz	Image: State Freq Offset 1 Image: State Freq Offset 2 Image: State Freq Offset 2 <th< td=""><td>Image: start Freq Offset 14 dB Image: start Freq 1.5150000000 GHz Trig: Free Run gH and the start of dB Center Freq 1.5150000000 GHz Product we start of dB Trig: Free Run gH and the start of dB Center Freq 1.5150000000 GHz Product we start of dB Trig: Free Run gH and the start of dB Center Freq 1.5150000000 GHz Ref Offset 14 dB Trig: Free Run gH and the start of dB Center Freq 1.500000000 GHz Start Freq 3.00000000 GHz Start Freq 3.00000000 GHz Start Freq 3.00000000 GHz Stop Freq 2.000000000 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz<</td><td>Image: Start Freq Start Freq Start Freq Offset 1 dB Start 0 dD Start 1 dD St</td><td>Mark Mark <th< td=""></th<></td></th<>	Image: start Freq Offset 14 dB Image: start Freq 1.5150000000 GHz Trig: Free Run gH and the start of dB Center Freq 1.5150000000 GHz Product we start of dB Trig: Free Run gH and the start of dB Center Freq 1.5150000000 GHz Product we start of dB Trig: Free Run gH and the start of dB Center Freq 1.5150000000 GHz Ref Offset 14 dB Trig: Free Run gH and the start of dB Center Freq 1.500000000 GHz Start Freq 3.00000000 GHz Start Freq 3.00000000 GHz Start Freq 3.00000000 GHz Stop Freq 2.000000000 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz Start 0.030 GHz<	Image: Start Freq Start Freq Start Freq Offset 1 dB Start 0 dD Start 1 dD St	Mark Mark <th< td=""></th<>

30MHz~3GHz_WCDMA_B2_MidCH9400-1880

3GHz~10GHz_WCDMA_B2_HighCH9538-1907.6



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30MHz~3GHz HSDPA B2 LowCH9262-1852.4

3GHz~10GHz_HSDPA_B2_MidCH9400-1880

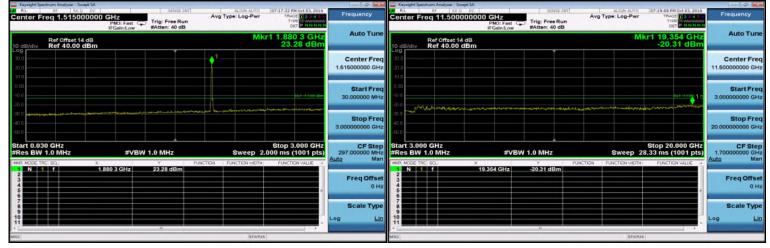
Registering with the start of the second start s	INSE-INT ALIGN AUTO	07-15-49 PM Oct 83, 2016		RL NF 55.0		ALIGN AUTO	17:17:50 PM Oct 83, 2016	
Center Freq 1.515000000 GHz PN0: Fest Trig: Fre IFGsinit.ow #Atten:	Avg Type: Log-Pwr e Run		Frequency	Center Freq 11.50000		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 1 TYPE NUMBER	Frequency
Ref Offset 14 dB		r1 1.853 6 GHz 22.64 dBm	Auto Tune	Ref Offset 14 d 10 dB/div Ref 40.00 dB	13	Mkr	1 18.946 GHz -20.42 dBm	Auto Tune
			Center Freq 1.515000000 GHz	30.0 30.0 10.0				Center Freq 11.50000000 GHz
0 80		DL1-4 SIQVEDH	Start Freq 30.000000 MHz	0.00 -000 -000	ىرى بى بىرى بىرى بىرى بىرى بىرى بىرى بى	and the second descent of the second second	Distant 1 ration	Start Freq 3.000000000 GHz
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1 N 1 f 1.853 6 GHz 22.64 d	Bm		Freq Offset 0 Hz	1 N 1 f 22 3 4 5	18.946 GHz -20.42 dBm			Freq Offset 0 Hz
6 7 3 9 10			Scale Type	6 7 8 9 10				Scale Type
17 · · ·				M			1.1	
Detwo	STATUS			MBG		STATUS		

3GHz~10GHz_HSDPA_B2_LowCH9262-1852.4

30MHz~3GHz_HSDPA_B2_HighCH9538-1907.6 PNO: Fast C Trig: Free Run #Atten: 40 dB Avg Type Avg Type 00 GHz eg 1.515 er Fred 11.5 Trig: Free Run Auto Tu Auto Tu Ref Offset 14 dB Ref 40.00 dBn Ref Offset 14 dB Ref 40.00 dBn Center Fre Center Fre ٠ Start Fre Start Fre Stop Fre Stop Fre Stop 20.000 GH 28.33 ms (1991 CF Ste 0.030 GHz 3.000 GHz Stop 3.000 G CF Ste #VBW 10 MH #VBW 10 M Freq Off Freq Offs OH OH Scale Typ Scale Typ

30MHz~3GHz_HSDPA_B2_MidCH9400-1880

3GHz~10GHz_HSDPA_B2_HighCH9538-1907.6



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3GHz~10GHz_HSUPA_B2_MidCH9400-1880



30MHz~3GHz_HSUPA_B2_LowCH9262-1852.4

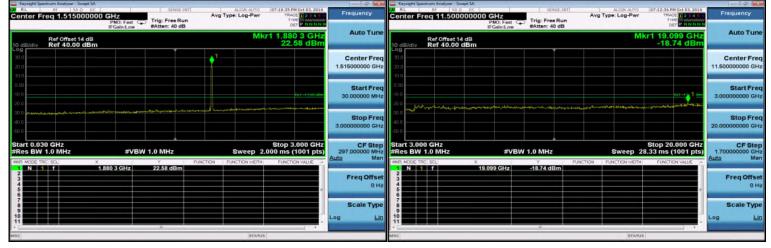
er Freq 1.515000000 GHz ter Freg 11,500 Ava Type: Log-P Trig: Free Run Trig: Free Rur Auto Tun Auto Tur Ref Offset 14 dB Ref 40.00 dBm 21.97 di Ref Offset 14 dB Ref 40.00 dBm Center Fre Center Fre 1.515000000 GH 11.50000000 GH Start Fre Start Fre Stop Fre stop Fre Stop 3.000 GHz 2.000 ms (1001 pts CF Ste 0.030 GHz BW 1.0 MHz CF Ste 3.000 GHz BW 1.0 MH Stop 20.000 Gi 28.33 ms (1001 pi #VBW 1.0 MH #VBW 1.0 MH 297.0 1.700 1.850 6 GF 21.97 Freq Offs req Off 01 OH Scale Type Scale Type L L

3GHz~10GHz_HSUPA_B2_LowCH9262-1852.4

30MHz~3GHz_HSUPA_B2_HighCH9538-1907.6 Avg Type: L Avg Type: 00 GHz 00 GHz r Fred 11.5 Trig: Free Run a 1.515 t 💬 Trig: Free Run Auto Tu Auto Tu Ref Offset 14 dB Ref 40.00 dBr Ref Offset 14 dB Ref 40.00 dBn Center Fre Center Fre ٠ Start Fre Start Fre Stop Fre Stop Fre 0.030 GHz CF Ste CF Ste 3,000 GHz Stop 20.000 GH Stop 3.000 GH #VRW 1 0 MH #VBW 10M 20 207.00 Freq Off Freq Offs OH OH Scale Typ Scale Typ

30MHz~3GHz_HSUPA_B2_MidCH9400-1880

3GHz~10GHz_HSUPA_B2_HighCH9538-1907.6

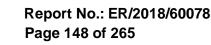


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30MHz~3GHz_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7

3GHz~10GHz_Band2 1.4MHz_QPSK 1 0_MidCH18900-1880

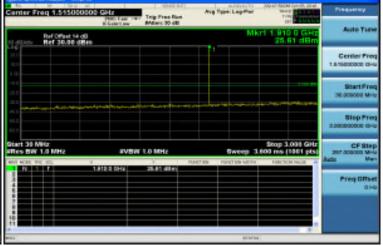


3GHz~10GHz_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7

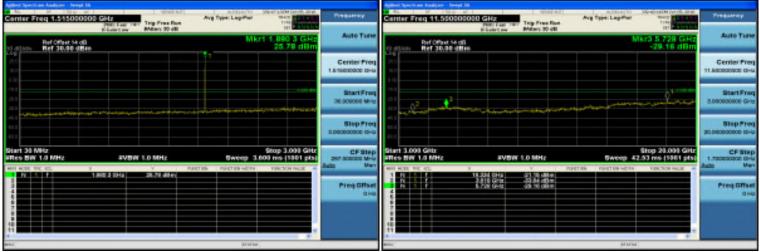


30MHz~3GHz_Band2 1.4MHz_QPSK 1 0_MidCH18900-1880

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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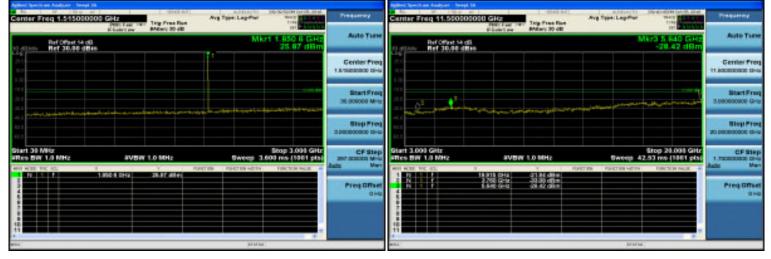
f (886-2) 2298-0488



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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

Center Freq 11.52020000 GHz The Freq The Free Har Are Special Legitar Transformer Marco 20 Hill Free Har Are Special Legitar Transformer Performer A and Pe

30MHz~3GHz_Band2 3MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 3MHz_QPSK 1 0_HighCH19185-1908.5



3GHz~10GHz_Band2 3MHz_QPSK 1 0_HighCH19185-1908.5



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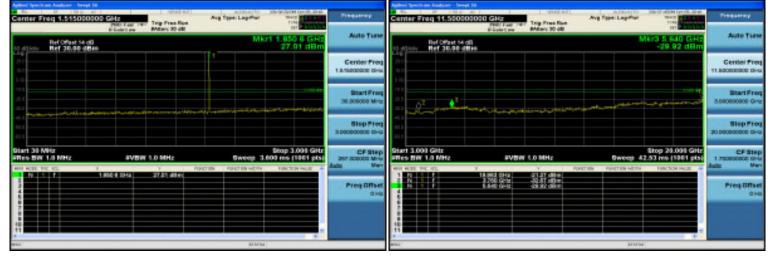
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30MHz~3GHz_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

3GHz~10GHz_Band2 5MHz_QPSK 1 0_MidCH18900-1880



3GHz~10GHz_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

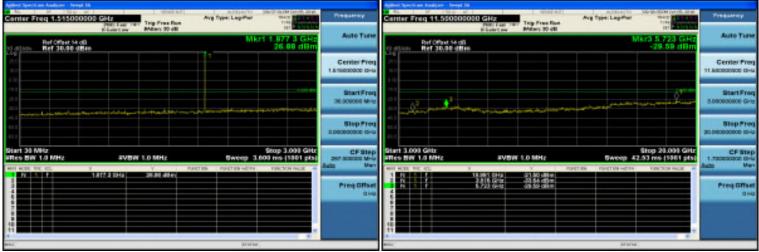
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30MHz~3GHz_Band2 5MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 5MHz_QPSK 1 0_HighCH19175-1907.5



3GHz~10GHz_Band2 5MHz_QPSK 1 0_HighCH19175-1907.5



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30MHz~3GHz_Band2 10MHz_QPSK 1 0_LowCH18650-1855

3GHz~10GHz_Band2 10MHz_QPSK 1 0_MidCH18900-1880

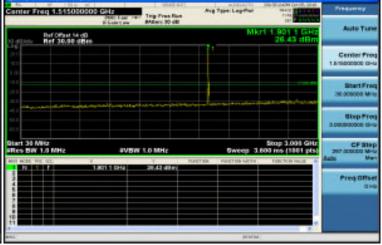


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30MHz~3GHz_Band2 10MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 10MHz_QPSK 1 0_HighCH19150-1905



3GHz~10GHz_Band2 10MHz_QPSK 1 0_HighCH19150-1905



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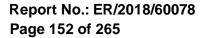
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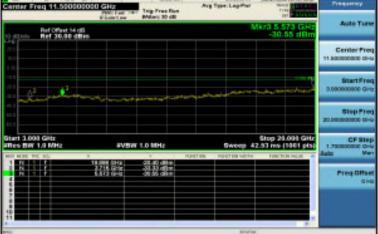


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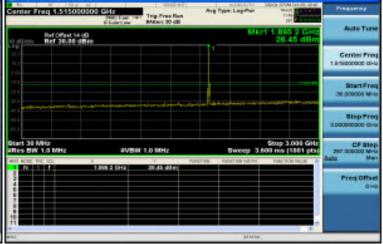


3GHz~10GHz_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5



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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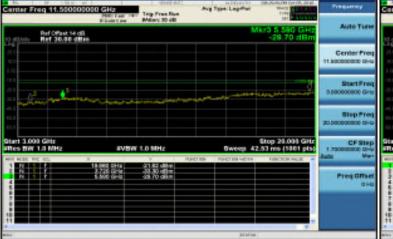
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30MHz~3GHz_Band2 20MHz_QPSK 1 0_LowCH18700-1860

3GHz~10GHz_Band2 20MHz_QPSK 1 0_MidCH18900-1880

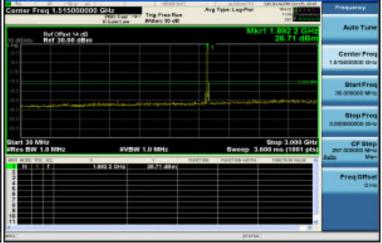


3GHz~10GHz_Band2 20MHz_QPSK 1 0_LowCH18700-1860



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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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

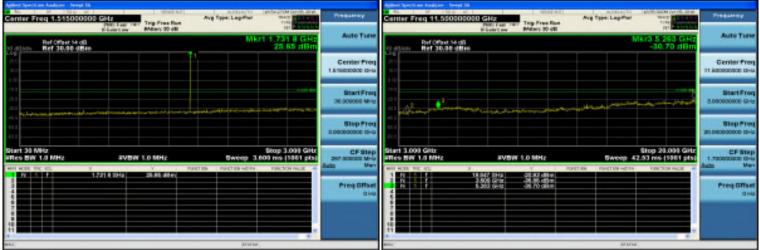


30MHz~3GHz_Band4 1.4MHz_QPSK 1 0_MidCH20175-1732.5

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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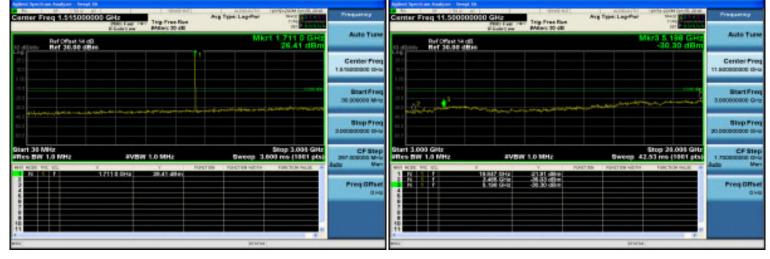
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30MHz~3GHz_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5

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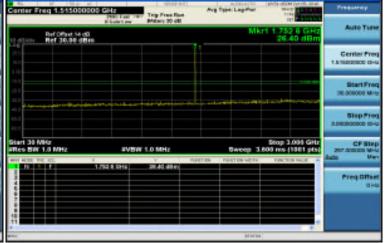


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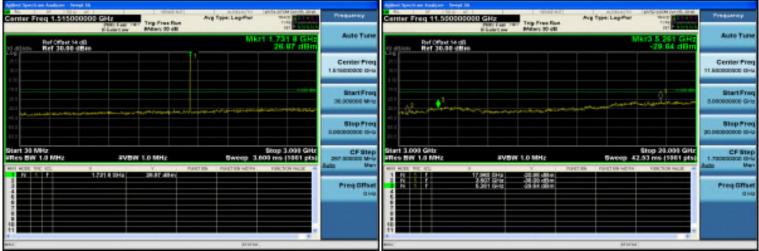
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30MHz~3GHz_Band4 3MHz_QPSK 1 0_MidCH20175-1732.5

30MHz~3GHz_Band4 3MHz_QPSK 1 0_HighCH20385-1753.5



3GHz~10GHz_Band4 3MHz_QPSK 1 0_HighCH20385-1753.5



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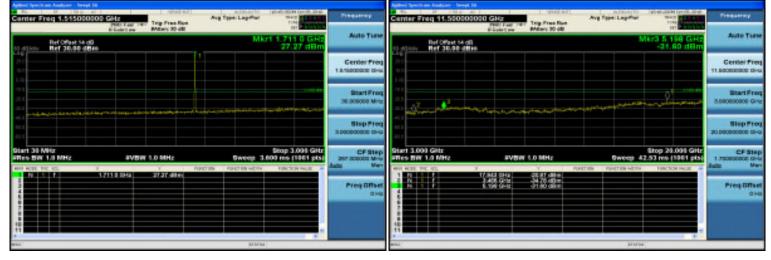
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30MHz~3GHz_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5

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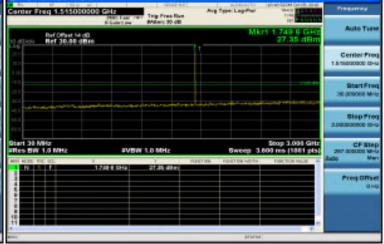


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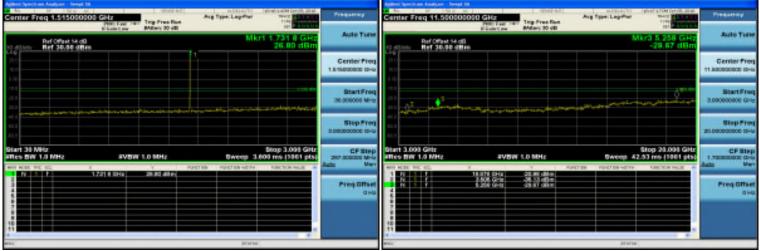
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30MHz~3GHz_Band4 5MHz_QPSK 1 0_HighCH20375-1752.5



3GHz~10GHz_Band4 5MHz_QPSK 1 0_HighCH20375-1752.5



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30MHz~3GHz_Band4 10MHz_QPSK 1 0_LowCH20000-1715

3GHz~10GHz_Band4 10MHz_QPSK 1 0_MidCH20175-1732.5

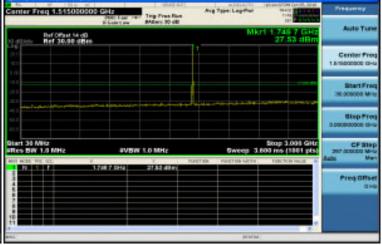


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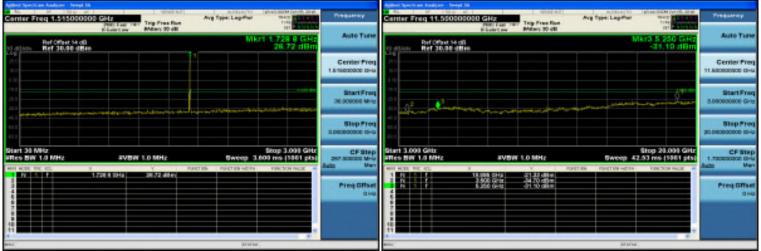


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30MHz~3GHz_Band4 10MHz_QPSK 1 0_HighCH20350-1750



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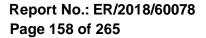
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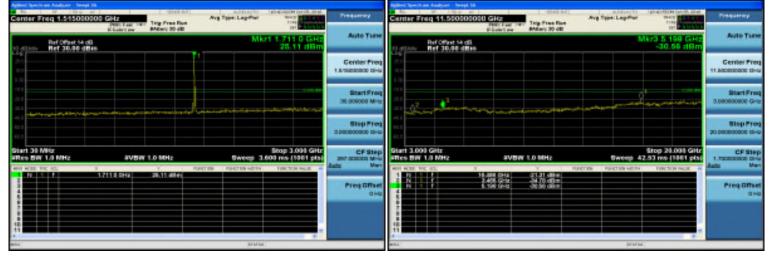
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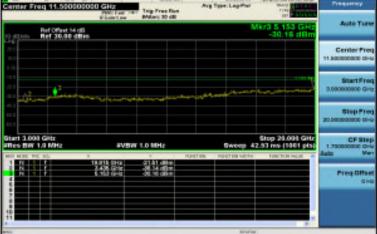


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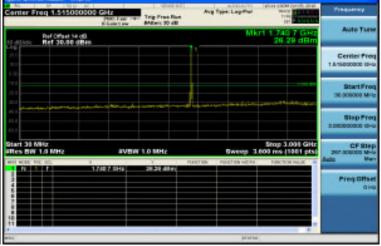


3GHz~10GHz_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5



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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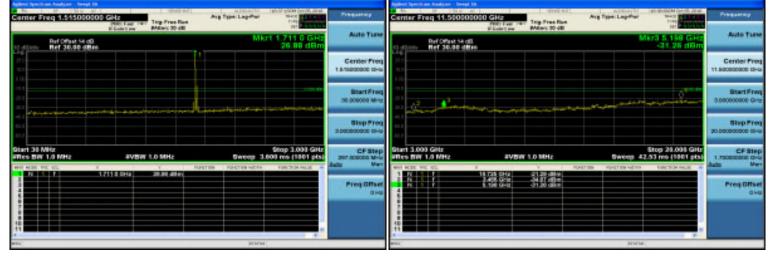
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30MHz~3GHz_Band4 20MHz_QPSK 1 0_LowCH20050-1720

3GHz~10GHz_Band4 20MHz_QPSK 1 0_MidCH20175-1732.5

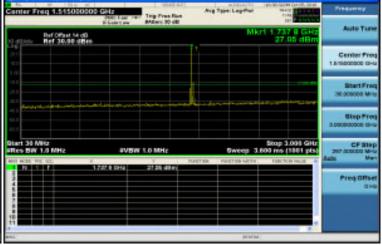


3GHz~10GHz_Band4 20MHz_QPSK 1 0_LowCH20050-1720



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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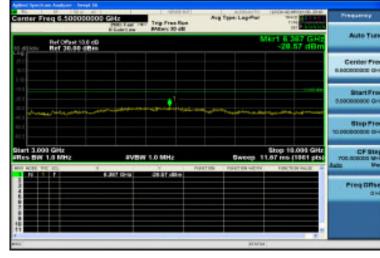
Report No.: ER/2018/60078 Page 160 of 265

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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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

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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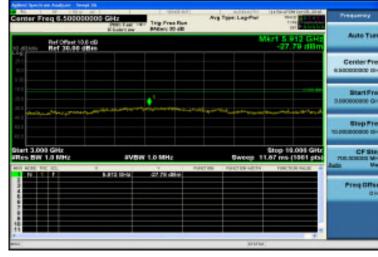
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30MHz~3GHz_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

3GHz~10GHz_Band5 5MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

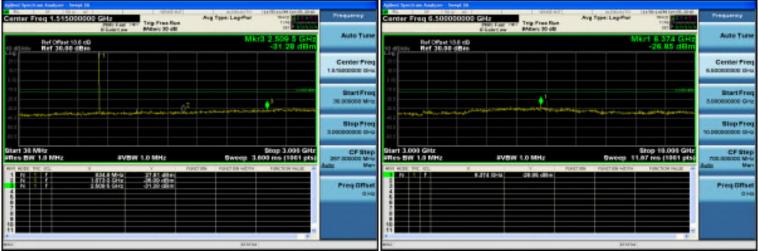


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30MHz~3GHz_Band5 5MHz_QPSK 1 0_HighCH20625-846.5



3GHz~10GHz_Band5 5MHz_QPSK 1 0_HighCH20625-846.5



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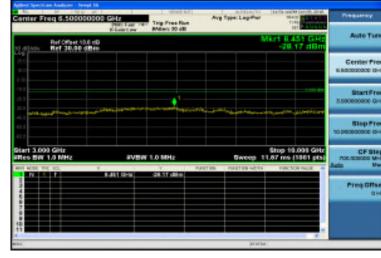
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30MHz~3GHz_Band5 10MHz_QPSK 1 0_LowCH20450-829

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3GHz~10GHz_Band5 10MHz_QPSK 1 0_LowCH20450-829

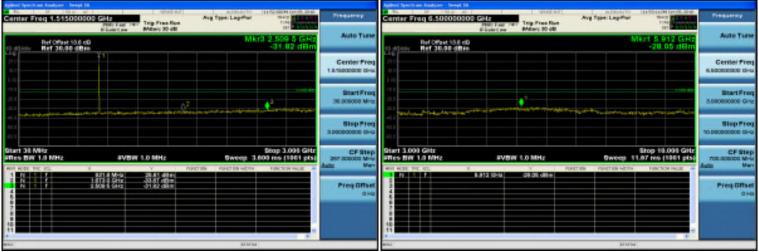


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30MHz~3GHz_Band5 10MHz_QPSK 1 0_HighCH20600-844



3GHz~10GHz_Band5 10MHz_QPSK 1 0_HighCH20600-844



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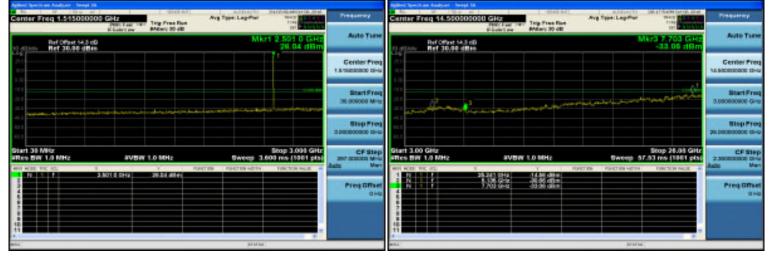
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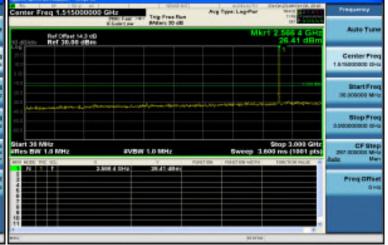
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3GHz~10GHz_Band7 5MHz_QPSK 1 0_MidCH21100-2535



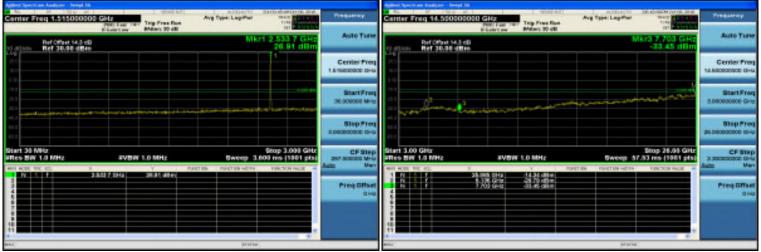
3GHz~10GHz_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5

30MHz~3GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5



30MHz~3GHz_Band7 5MHz_QPSK 1 0_MidCH21100-2535

3GHz~10GHz_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5



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30MHz~3GHz_Band7 10MHz_QPSK 1 0_LowCH20800-2505

3GHz~10GHz_Band7 10MHz_QPSK 1 0_MidCH21100-2535

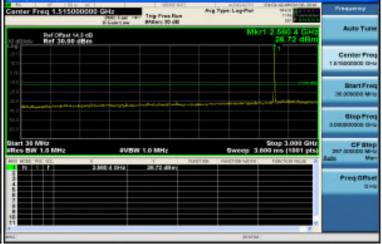


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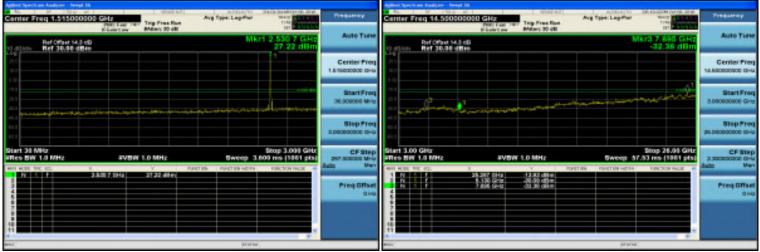


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30MHz~3GHz_Band7 10MHz_QPSK 1 0_HighCH21400-2565



3GHz~10GHz_Band7 10MHz_QPSK 1 0_HighCH21400-2565



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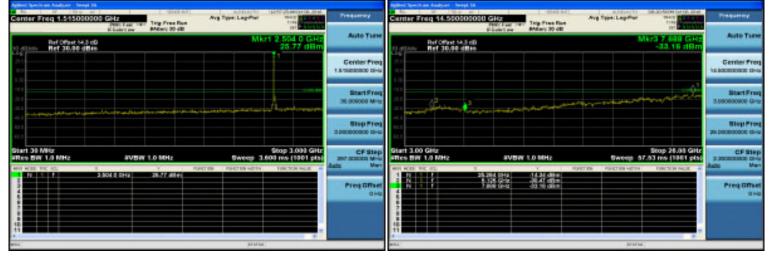
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30MHz~3GHz_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5

3GHz~10GHz_Band7 15MHz_QPSK 1 0_MidCH20175-1732.5

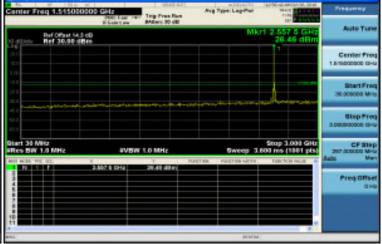


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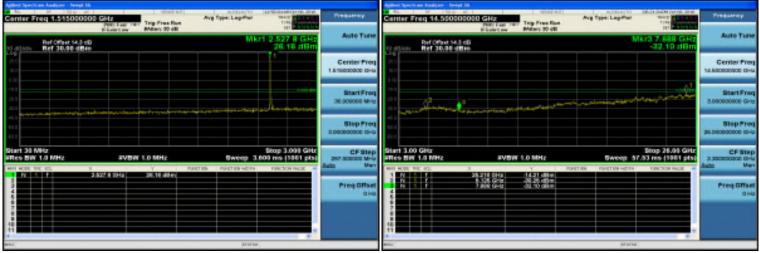


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3GHz~10GHz_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5



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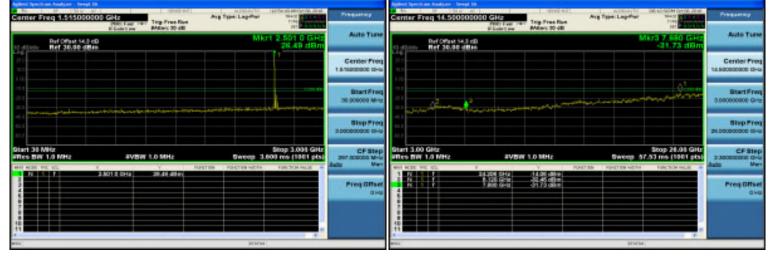
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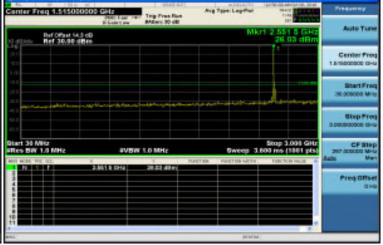


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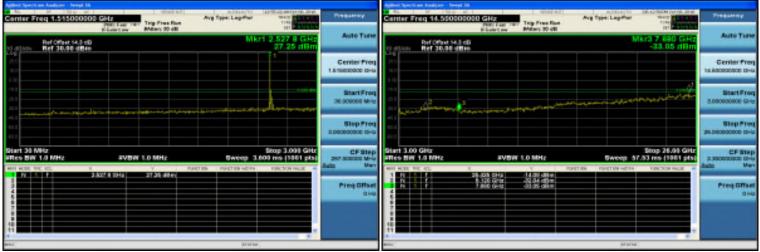


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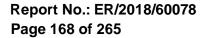
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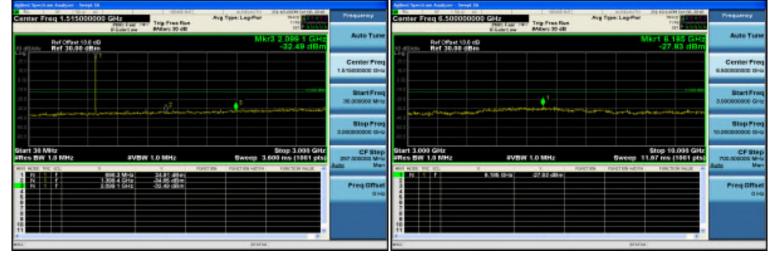
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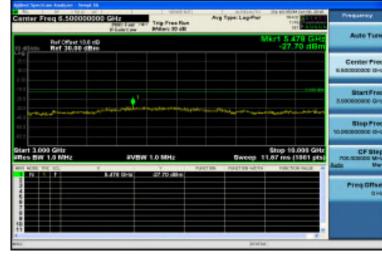


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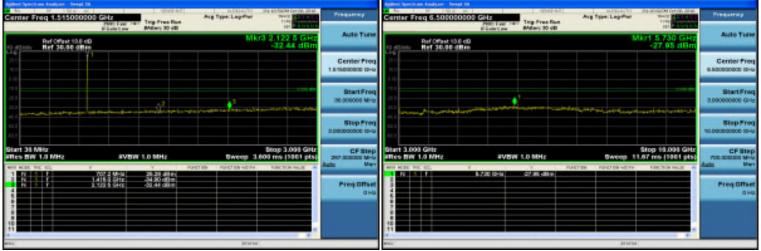


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3GHz~10GHz_Band12 1.4MHz_QPSK 1 0_HighCH23173-715.3



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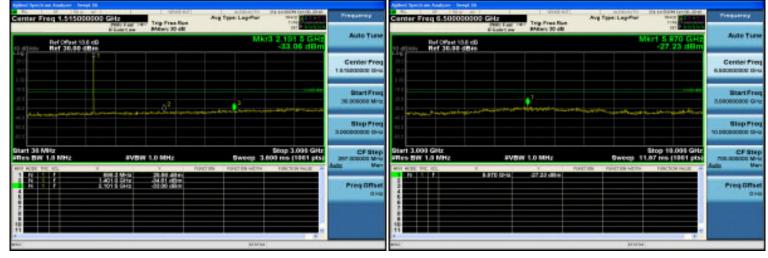
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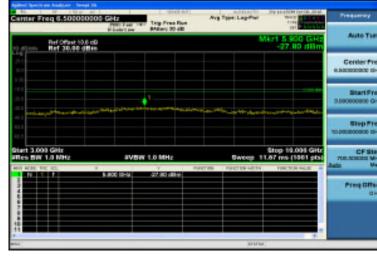


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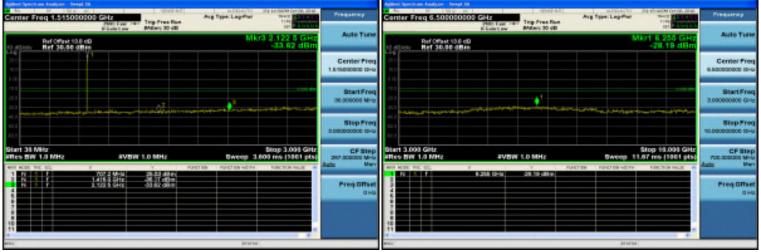


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3GHz~10GHz_Band12 3MHz_QPSK 1 0_HighCH23165-714.5



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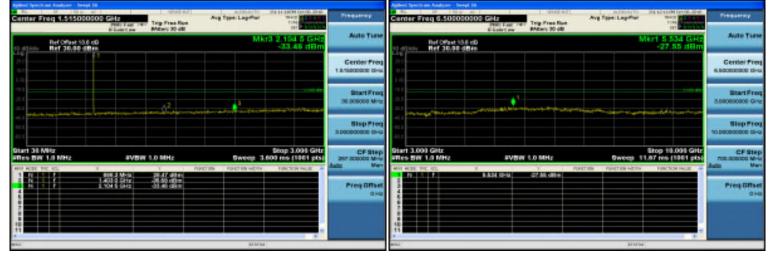
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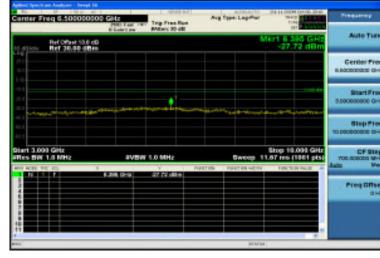


30MHz~3GHz_Band12 5MHz_QPSK 1 0_LowCH23035-701.5

3GHz~10GHz_Band12 5MHz_QPSK 1 0_MidCH23095-707.5



3GHz~10GHz_Band12 5MHz_QPSK 1 0_LowCH23035-701.5

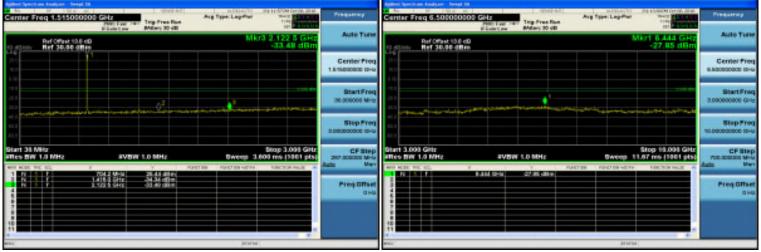


30MHz~3GHz_Band12 5MHz_QPSK 1 0_MidCH23095-707.5

30MHz~3GHz_Band12 5MHz_QPSK 1 0_HighCH23155-713.5



3GHz~10GHz_Band12 5MHz_QPSK 1 0_HighCH23155-713.5



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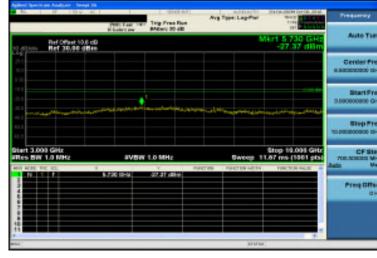


30MHz~3GHz_Band12 10MHz_QPSK 1 0_LowCH23060-704

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

30MHz~3GHz Band12 10MHz QPSK 1 0 HighCH23130-711



3GHz~10GHz_Band12 10MHz_QPSK 1 0_HighCH23130-711



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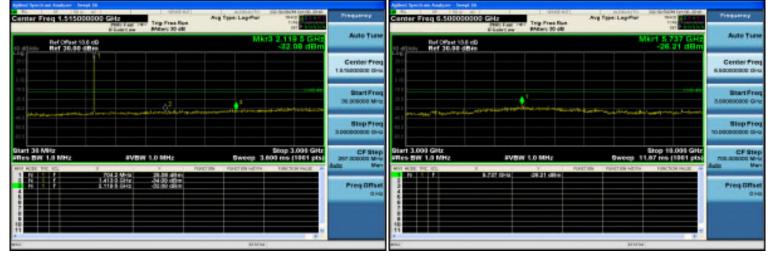
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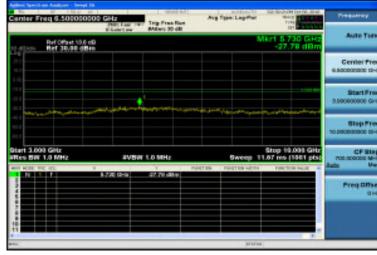
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30MHz~3GHz_Band17 5MHz_QPSK 1 0_LowCH23755-706.5

3GHz~10GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710



3GHz~10GHz_Band17 5MHz_QPSK 1 0_LowCH23755-706.5

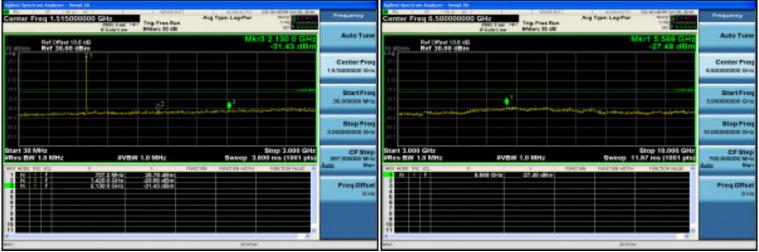


30MHz~3GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710

30MHz~3GHz_Band17 5MHz_QPSK 1 0_HighCH23825-713.5



3GHz~10GHz_Band17 5MHz_QPSK 1 0_HighCH23825-713.5



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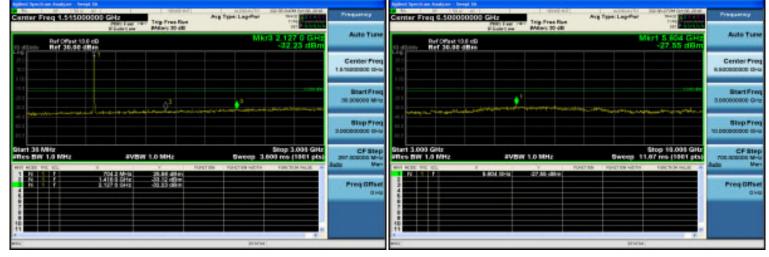
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30MHz~3GHz_Band17 10MHz_QPSK 1 0_LowCH23780-709

3GHz~10GHz_Band17 10MHz_QPSK 1 0_MidCH23790-710



3GHz~10GHz_Band17 10MHz_QPSK 1 0_LowCH23780-709

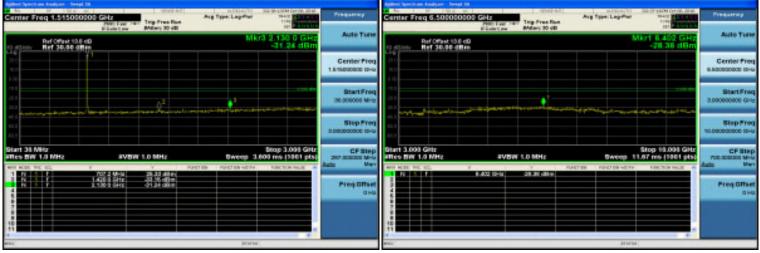


30MHz~3GHz_Band17 10MHz_QPSK 1 0_MidCH23790-710

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 §22.917(a), §24.238(a), §27.53(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.

Table 2 — Unwanted Emi	ssions for Mobile	e, Portable and Lov	w-Power Fixed Subscrib	ber
Equipment				
-	-			

Frequency (MHz)	Attenuation (dB)
<2200	43 + 10 log10(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 log10(p)
2300 - 2305	43 + 10 log10(p)
2305 - 2320	43+10 log10(p)Note
2320 - 2324	55 + 10 log10(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 log10(p)
2345 - 2360	43 + 10 log10(p)Note
2360 - 2365	43 + 10 log10(p)
2365 - 2395	$70 \pm 10 \log_{10}(p)$
>2395	43 + 10 log10(p)

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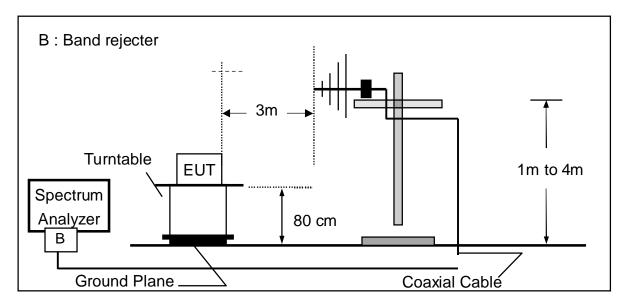
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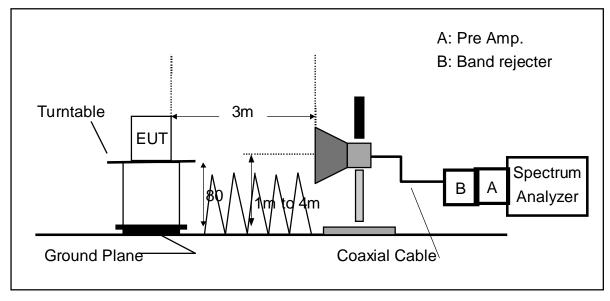
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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 NUMBER	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		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			

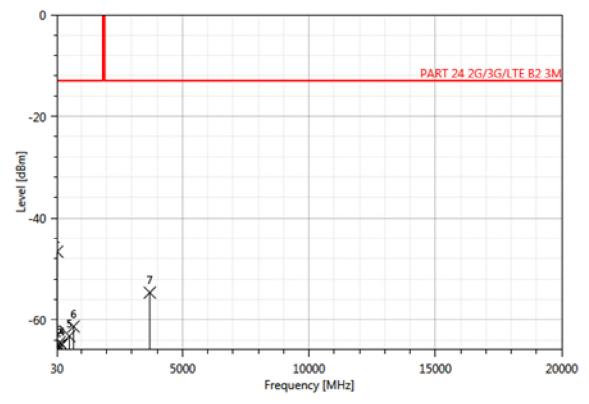
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10.5. Measurement Result: **Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode**

Operation Mode :	WCDMA B2	Tes
Fundamental Frequency :	1852.4 MHz	Ter
Operation Band :	Tx CH LOW	Tes
EUT Pol.:	E2 Plane	Mea

10/07/2016 st Date : mp. / Humi. : 21 deg_C / 62 RH st Engineer : Tin easurement Antenna Pol. : VERTICAL



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

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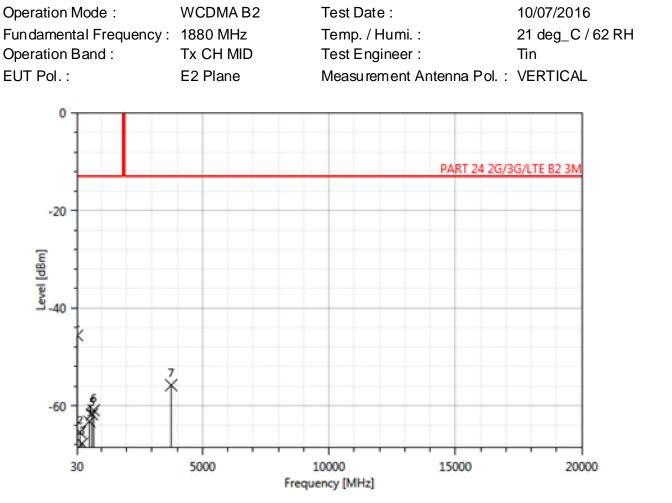


Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :	WCDMA B2 1852.4 MHz Tx CH LOW E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna Pol.	10/07/2016 21 deg_C / 62 RH Tin : HORIZONTAL
0		PART 24 2G	/3G/LTE B2 3M
-20			
[wgp] ====================================			
-60			
30		10000 15000 Jency [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
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

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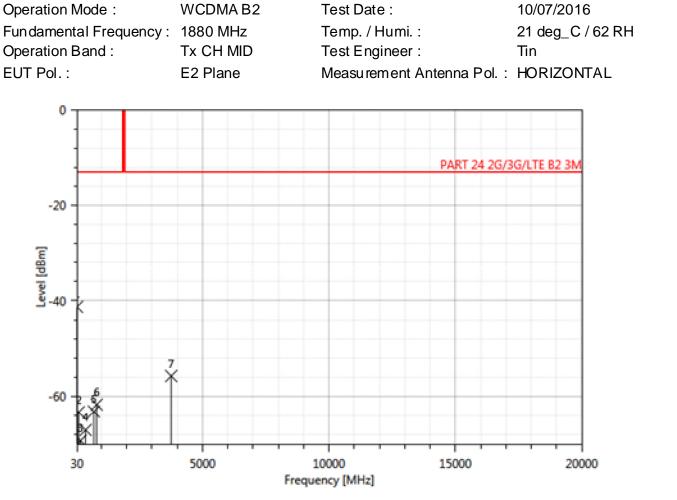




Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
36.79	S	Peak	-45.62	-33.37	-11.28	-0.98	-13.00	-32.62
149.31	S	Peak	-65.42	-64.00	0.01	-1.43	-13.00	-52.42
233.70	S	Peak	-67.74	-71.34	5.33	-1.73	-13.00	-54.74
519.85	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

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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	-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

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WCDMA B2 1907.6 MHz Tx CH HIGH 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
	Image: Sector	
		20000
	1907.6 MHz Tx CH HIGH E2 Plane	1907.6 MHz Temp. / Humi. : Tx CH HIGH Test Engineer : E2 Plane Measurement Antenna Pol. : PART 24 2G/

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

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Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :	WCDMA B2 1907.6 MHz Tx CH HIGH E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna Pol.	10/07/2016 21 deg_C / 62 RH Tin : HORIZONTAL
0		PART 24 2G	/3G/LTE B2 3M
-20			
[wgp] ev-40			
-60	<		
30		10000 15000 Jency [MHz]	20000

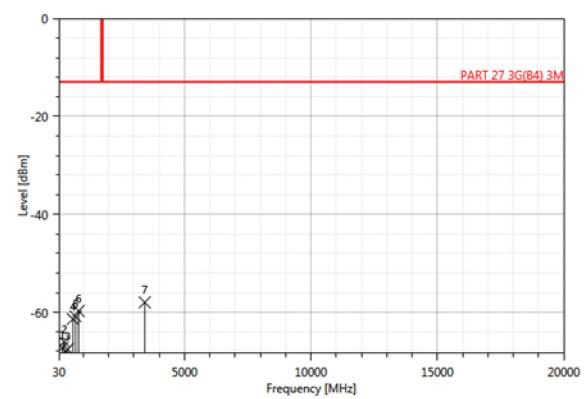
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-44.19	-31.28	-11.94	-0.97	-13.00	-31.19
100.81	S	Peak	-59.91	-59.12	0.46	-1.25	-13.00	-46.91
139.61	S	Peak	-66.93	-65.00	-0.55	-1.39	-13.00	-53.93
221.09	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

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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

WCDMA B4	Test Date :	10/07/2016
1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Tx CH LOW	Test Engineer :	Tin
E2 Plane	Measurement Antenna Pol. :	VERTICAL
	1712.4 MHz Tx CH LOW	1712.4 MHzTemp. / Humi. :Tx CH LOWTest Engineer :



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
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

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