Report No.: LCS181130005AEG

Appendix D: Test Data for E-UTRA Band 7

Product Name: LTE GSM/WCDMA Smartphone Trade Mark: DOOGEE Test Model: S80

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden Zhuo

D.1 Conducted Output Power

		Conducte	d Output Pov	ver Test Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.87	22.74	PASS
		1	12	24.31	23.06	PASS
		1	24	23.78	22.66	PASS
	LCH	12	0	22.50	21.62	PASS
		12	6	22.60	21.71	PASS
		12	13	22.55	21.65	PASS
		25	0	22.57	21.54	PASS
		1	0	23.45	22.40	PASS
		1	12	23.72	22.71	PASS
		1	24	23.28	22.21	PASS
QPSK /	MCH	12	0	22.41	21.49	PASS
16QAM		12	6	22.45	21.53	PASS
		12	13	22.38	21.39	PASS
		25	0	22.48	21.47	PASS
		1	0	22.96	22.11	PASS
		1	12	23.45	22.41	PASS
		1	24	22.92	22.02	PASS
	НСН	12	0	22.11	21.18	PASS
		12	6	22.16	21.21	PASS
		12	13	22.07	21.15	PASS
		25	0	22.08	21.19	PASS

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		Conducted	I Output Pow	ver Test Result (Channel Band	lwidth: 10 MHz)	
Modulation	Channel	RB Con Size	figuration Offset	Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		1	0	23.52	22.71	PASS
		1	24	23.62	22.82	PASS
		1	49	23.34	22.53	PASS
	LCH	25	0	22.50	21.45	PASS
		25	12	22.56	21.50	PASS
		25	25	22.57	21.51	PASS
		50	0	22.52	21.47	PASS
		1	0	23.45	22.73	PASS
		1	24	23.58	22.85	PASS
		1	49	23.21	22.42	PASS
QPSK /	МСН	25	0	22.55	21.54	PASS
16QAM		25	12	22.50	21.53	PASS
		25	25	22.41	21.45	PASS
		50	0	22.50	21.50	PASS
		1	0	23.21	22.44	PASS
		1	24	23.31	22.67	PASS
		1	49	23.02	22.33	PASS
	НСН	25	0	22.34	21.35	PASS
		25	12	22.21	21.19	PASS
		25	25	22.13	21.11	PASS
		50	0	22.22	21.24	PASS

		Conducted	Output Pow	er Test Result (Channel Band	dwidth: 15 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
wodulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.45	22.69	PASS
		1	37	23.60	22.78	PASS
		1	74	23.17	22.34	PASS
	LCH	37	0	22.51	21.41	PASS
		37	18	22.54	21.47	PASS
		37	38	22.52	21.44	PASS
		75	0	22.52	21.42	PASS
		1	0	23.43	22.64	PASS
		1	37	23.54	22.83	PASS
		1	74	23.06	22.28	PASS
QPSK / 16QAM	МСН	37	0	22.56	21.52	PASS
IOQAIVI		37	18	22.53	21.48	PASS
		37	38	22.35	21.37	PASS
		75	0	22.51	21.47	PASS
		1	0	23.22	22.27	PASS
		1	37	23.49	22.58	PASS
		1	74	22.96	22.18	PASS
	НСН	37	0	22.46	21.34	PASS
		37	18	22.35	21.31	PASS
		37	38	22.16	21.12	PASS
		75	0	22.35	21.23	PASS

		Conducted	Output Pow	ver Test Result (Channel Band	lwidth: 20 MHz)	
Modulation	Channel		figuration	Average Power [dBm] QPSK	Average Power [dBm]	Verdict
		Size	Offset		16QAM	5.00
		1	0	23.51	22.60	PASS
		1	49	23.66	22.75	PASS
		1	99	23.24	22.30	PASS
	LCH	50	0	22.30	21.21	PASS
		50	25	22.40	21.34	PASS
		50	50	22.31	21.24	PASS
		100	0	22.24	21.21	PASS
		1	0	23.46	22.60	PASS
		1	49	23.74	22.88	PASS
QPSK /		1	99	23.13	22.22	PASS
16QAM	MCH	50	0	22.55	21.52	PASS
IOQAIN		50	25	22.51	21.47	PASS
		50	50	22.32	21.35	PASS
		100	0	22.42	21.42	PASS
		1	0	23.09	22.26	PASS
		1	49	23.52	22.67	PASS
		1	99	22.94	22.27	PASS
	НСН	50	0	22.23	21.25	PASS
		50	25	22.27	21.27	PASS
		50	50	22.03	21.06	PASS
		100	0	22.20	21.11	PASS

D.2 Peak-to-Average Ratio

	Peak-to Average Ra	ntio Test Result (Channel	Bandwidth: 5 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
wouldton	Channel	[dB]	[dB]	Verdict
	LCH	4.98	<13	PASS
QPSK	MCH	5.38	<13	PASS
	НСН	5.13	<13	PASS
	LCH	5.83	<13	PASS
16QAM	MCH	6.2	<13	PASS
	НСН	5.93	<13	PASS

	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 10 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
wodulation	Channel	[dB]	[dB]	Verdict
	LCH	5.07	<13	PASS
QPSK	MCH	5.43	<13	PASS
	НСН	5.16	<13	PASS
	LCH	5.85	<13	PASS
16QAM	MCH	6.15	<13	PASS
	НСН	5.95	<13	PASS

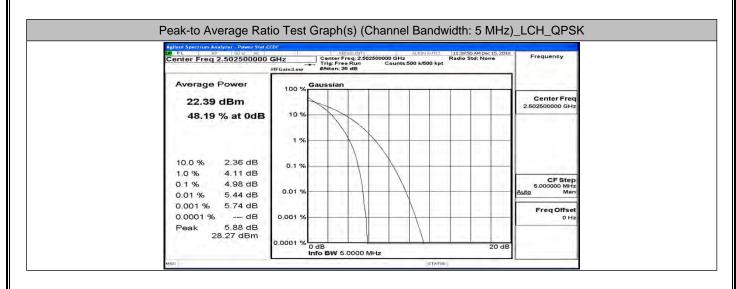
	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 15 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation	Channel	[dB]	[dB]	verdici
	LCH	4.97	<13	PASS
QPSK	MCH	5.01	<13	PASS
	НСН	4.98	<13	PASS
	LCH	6.15	<13	PASS
16QAM	MCH	6.26	<13	PASS
	НСН	6.17	<13	PASS

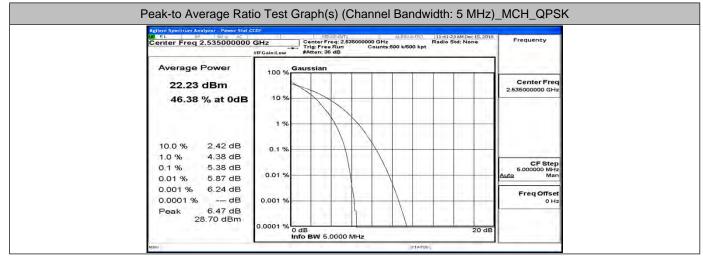
	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 20 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
MODULATION	Ghanner	[dB]	[dB]	Verdict
	LCH	5.72	<13	PASS
QPSK	MCH	5.72	<13	PASS
	HCH	5.78	<13	PASS
	LCH	6.68	<13	PASS
16QAM	MCH	6.81	<13	PASS
	НСН	6.67	<13	PASS

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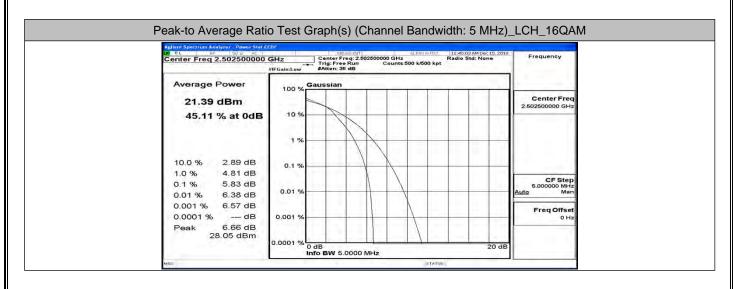


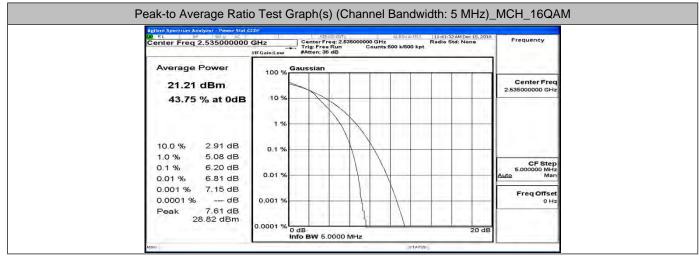
RL RP 50 P AC	SENSE DUT ALIGN AUTO 11:42:54	4 AM Dec 15, 2018
Center Freq 2,56750000		td: None Frequency
Average Power	100 % Gaussian	
21.94 dBm		Center Freq 2,567500000 GHz
46.95 % at 0dB		
	1 %	
10.0 % 2.41 dB 1.0 % 4.26 dB	0.1 %	
0.1 % 5.13 dB 0.01 % 5.53 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 5.72 dB 0.0001 % dB	0,001 %	Freq Offset 0 Hz
Peak 5.89 dB		

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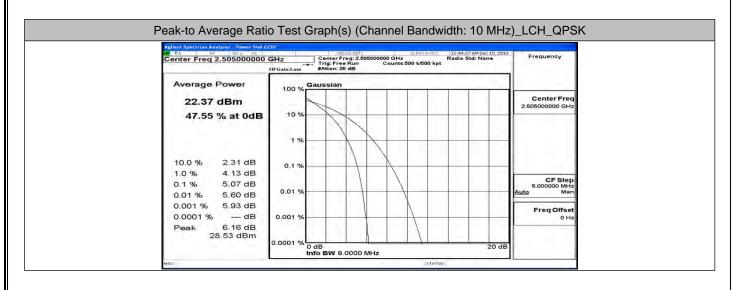


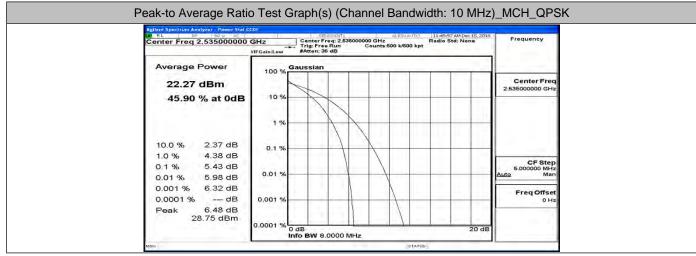
CORL RP 50 P AC			uency
Center Freq 2.56750000	0 GHz Center Freq: 2,567500000 GHz Trig: Free Run Counts:500 k/500 #Atten: 36 dB		uency
Average Power	Causalan		
20.97 dBm 44.12 % at 0dE	100 % Gaussian		nter Freq 00000 GHz
	1 %		
10.0 % 2.92 dB	0.1 %		
1.0 % 4.94 dB 0.1 % 5.93 dB 0.01 % 6.39 dB	0.01 %	5.0 Auto	CF Step 00000 MHz Man
0.001 % 6.63 dB 0.0001 % dB	0,001 %	Fr	eq Offset 0 Hz

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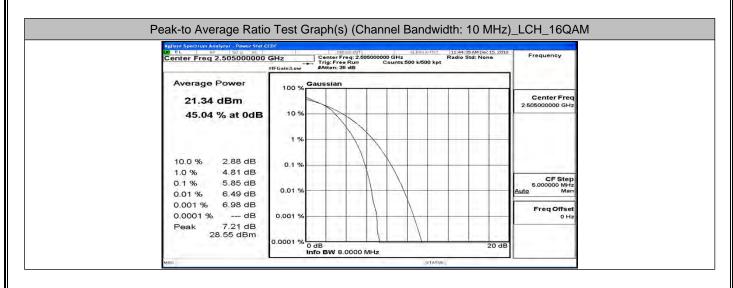


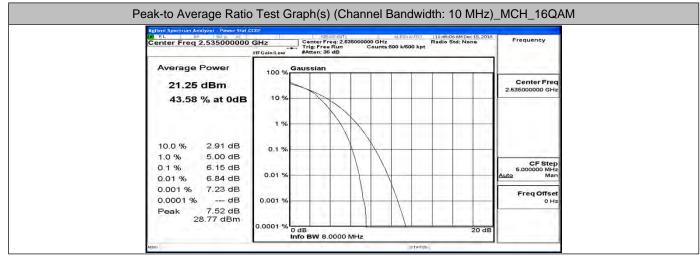
Center Freq 2,56500000	Trig: Free Run Counts:500 k/500 kpt	Radio Std: None Frequen
	#IFGain:Low #Atten: 36 dB	
Average Power	100 % Gaussian	
22.05 dBm 46.78 % at 0dB		Cente 2.5650000
40.76 % at 00B		
	1 %	
10.0 % 2.37 dB	0.1 %	
1.0 % 4.26 dB 0.1 % 5.16 dB 0.01 % 5.65 dB	0.01 %	5.0000 Auto
0.001 % 5.96 dB 0.0001 % dB	0.001 %	Freq
	0.001 %	

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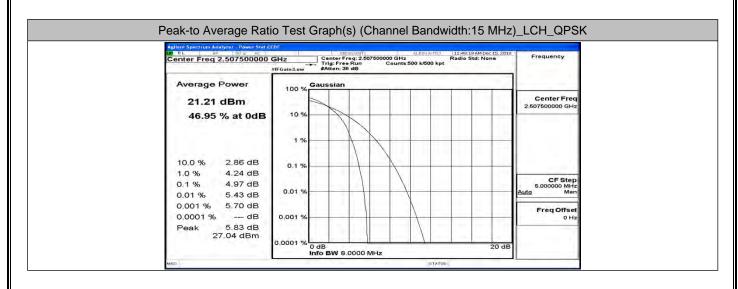


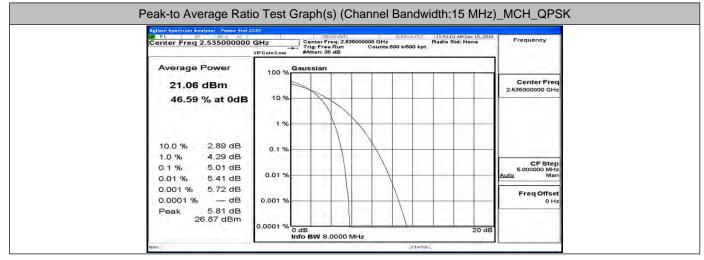
RL RF 909 AC		11:47:38 AM Dec 15, 2018 Freque	Incy
Center Freq 2.5650000	O GHZ Center Freq: 2.56500000 GHz Trig: Free Run Counts:500 k/500 kpt #Atten: 36 dB	Radio Std: None Freque	incy
Average Power	100 % Gaussian		
21.00 dBm		Cent. 2.565000	er Freq 000 GHz
44.11 % at 0dE	1%		
10.0 % 2.94 dB	0.1 %		
1.0 % 4.92 dB 0.1 % 5.95 dB 0.01 % 6.50 dB	0.01 %	5.0000 Auto	F Step 000 MHz Man
0.001 % 6.86 dB 0.0001 % dB	0.001 %	Freq	0 ffset 0 Hz

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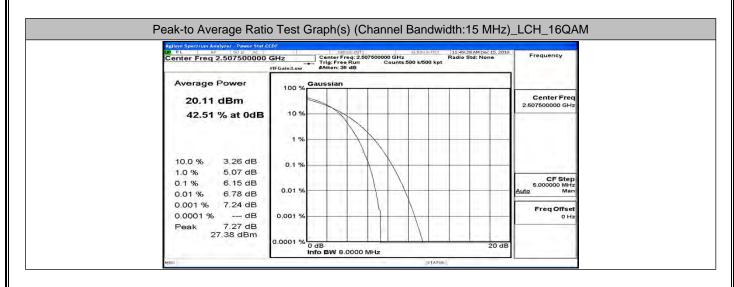


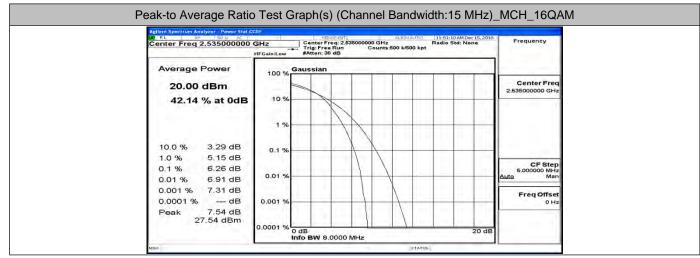
COF	11:52:44 AM Dec 15, 2018
GHZ Center Freq: 2.562500000 GHz Freg Even Counts:500 k/500 kpt	Radio Std: None Frequency
100 % Gaussian	
	Center Fred 2.562500000 GH
10 %	
1 %	
0.1 %	
0.01 %	CF Step 5.000000 MHz Auto Mar
0.001 %	Freq Offset 0 Ha
	GHz Center Freq 2: 5620000 GHz ALDIANS /// Center Freq 2: 5620000 GHz Counts: 500 k/500 kpt MFGalnitow /// FGalnitow Tig: Freq Run Counts: 500 k/500 kpt // 100 % Gaussian Counts: 500 k/500 kpt

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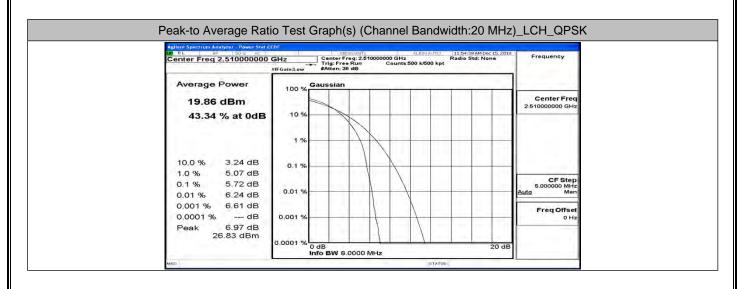


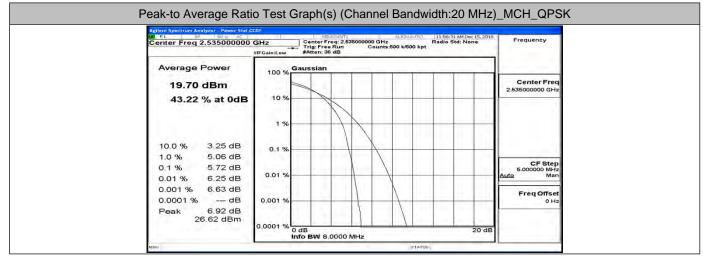
Agilent Spectrum Analyzer - Power Stat	SENSE/DVT ALIGN AUTIO	11:52:53 AM Dec 15, 2018	Frequency
Center Freq 2,562500000	GHz Center Freq: 2.562500000 GHz Trig: Free Run Counts:500 k/500 kpt #Atten: 36 dB	Radio Std: None	Frequency
Average Power	Cauccian		
19.81 dBm 42.42 % at 0dB	100 % Galssian		Center Freq 2.562500000 GHz
10.0 % 3.27 dB 1.0 % 5.09 dB	0.1 %		
0.1 % 6.17 dB 0.01 % 6.81 dB	0.01 %		CF Step 5.000000 MHz Man
0.001 % 7.32 dB 0.0001 % dB Peak 7.62 dB	0,001 %		Freq Offset 0 Hz

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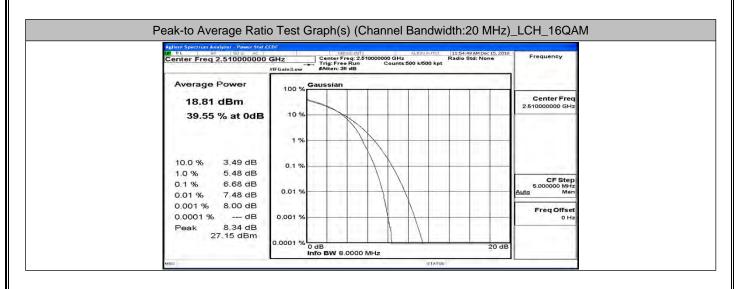


Center Freq 2.56000000		Radio Std: None	Frequency				
	//FGain:Low #Atten: 36 dB	kpt					
Average Power	100 % Gaussian						
19.52 dBm 43.08 % at 0dB			Center Freq 2.56000000 GHz				
43.06 % at 00B							
	1 %						
10.0 % 3.27 dB	0.1%						
1.0 % 5.15 dB 0.1 % 5.78 dB 0.01 % 6.29 dB	0.01 %		CF Step 5.000000 MHz uto Man				
0.001 % 6.60 dB	0.001 %		Freq Offset 0 Hz				
0.0001 % dB							

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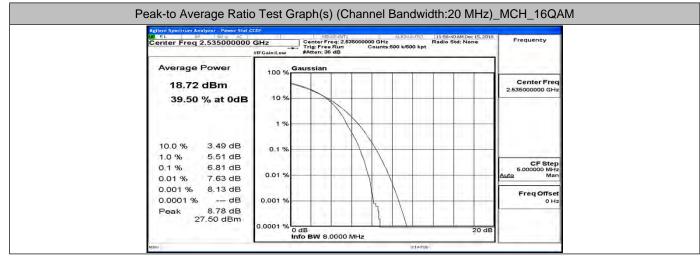


Image: Second construct with a second construction of the second consecond conseconstruction of the second construction of the second	Center Freq 2.56000000	Center Freg: 2.56000000 GHz	11:58:35 AM Dec 15, 2018 Radio Std: None	Frequency
18.48 dBm 100 % 39.36 % at 0dB 10 % 10.0 % 3.52 dB 1.0 % 5.55 dB 0.1 % 0.1 % 0.01 % 6.67 dB 0.01 % 0.01 % 0.001 % 7.38 dB 0.001 % 0.001 %	Conter 1104 2.0000000	Trig: Free Run Counts:500 k/500 kpt		and see 1
18.48 dBm Center Freq 39.36 % at 0dB 10 % 10 % 10 % 10 % 1 % 10.0 % 3.52 dB 0.1 % 0.1 % 0.1 % 6.67 dB 0.01 % 0.01 % 0.001 % 8.04 dB 0.001 % 0.001 %	Average Power	100 % Gaussian		
10.0 % 3.52 dB 0.1 % 10.0 % 3.52 dB 0.1 % 1.0 % 5.55 dB 0.1 % 0.1 % 6.67 dB 0.01 % 0.01 % 7.38 dB 0.01 % 0.001 % 8.04 dB 0.001 % 0.0001 % dB 0.001 %				
10.0 % 3.52 dB 0.1 %	39.36 % at 0dB	3 10 %		
1.0 % 5.55 dB 0.1 % CF Step 0.1 % 6.67 dB 0.01 % Auto 0.01 % 7.38 dB 0.01 % Auto 0.001 % 8.04 dB 0.001 % Freq Offset 0.0001 % dB 0.001 % 0.01 %		1 %		
0.1 % 6.67 dB 0.01 % 7.38 dB 0.001 % 8.04 dB 0.0001 % dB 0.001 % 0.01 % 0.001 % 0.001 % 0.0000 MHz		0.1 %		
0.001 % 7.38 dB 0.001 % 8.04 dB 0.0001 % dB 0.001 %	0.1 % 6.67 dB	0.01 %		5.000000 MHz
0.0001 % dB 0.001 % 0 Hz				
	0.0001 % dB Peak 8.41 dB	0,001 %		

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D.3 26dB Bandwidth and Occupied Bandwidth

	EBW & OBW T	est Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
MODUIAtion	Charmer	(MHz)	(MHz)	Verdict
	LCH	4.4732	4.854	PASS
QPSK	MCH	4.4753	4.854	PASS
	НСН	4.4871	4.868	PASS
	LCH	4.4826	4.847	PASS
16QAM	MCH	4.4826	4.852	PASS
	НСН	4.4770	4.925	PASS

	EBW & OBW Te	est Result (Channel Band	dwidth: 10 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Wodulation	Channer	(MHz)	(MHz)	Verdict
	LCH	8.9386	9.567	PASS
QPSK	MCH	8.9501	9.571	PASS
	НСН	8.9554	9.525	PASS
	LCH	8.9479	9.542	PASS
16QAM	МСН	8.9391	9.465	PASS
	НСН	8.9582	9.516	PASS

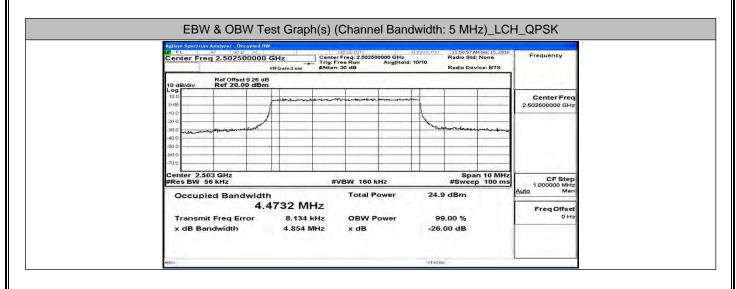
	EBW & OBW Te	est Result (Channel Band	dwidth: 15 MHz)	
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
	LCH	13.400	14.20	PASS
QPSK	MCH	13.425	14.05	PASS
	НСН	13.423	14.10	PASS
	LCH	13.401	14.11	PASS
16QAM	MCH	13.407	14.24	PASS
	НСН	13.406	14.09	PASS

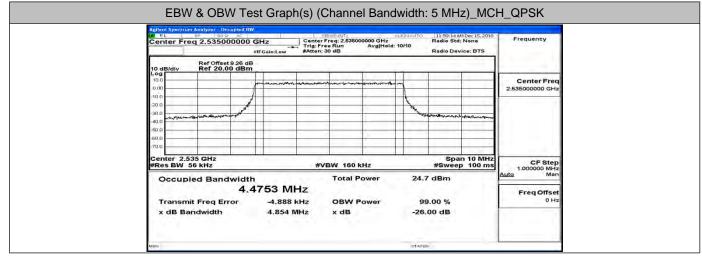
	EBW & OBW Te	est Result (Channel Band	dwidth: 20 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	Verdict
	LCH	17.826	18.65	PASS
QPSK	MCH	17.867	18.67	PASS
	НСН	17.853	18.60	PASS
	LCH	17.836	18.60	PASS
16QAM	MCH	17.870	18.69	PASS
	НСН	17.834	18.68	PASS

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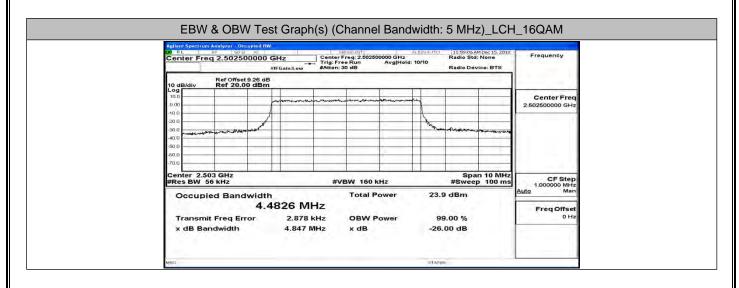


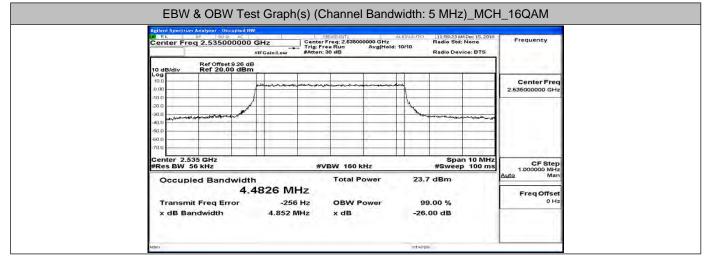
Trig: Free Run Avg[Hold: 10/10								Frequency			
Ref Offset 8.94		#Atten: 3	30 dB			Radio Dev	rice: BTS	1. A. A.			
					-			Center Freq 2.567500000 GHz			
-100 -200 -300 -400	4				1 mar	the second to be	Vilian -				
-60.0 -70.0											
Center 2.568 GHz #Res BW 56 kHz	1.1	#VI	BW 160 k	kHz			n 10 MHz p 100 ms	CF Step			
Occupied Bandwid	ith .4871 M	ц.,	Total Power 24.4 dBm					Auto Man			
Transmit Freq Error x dB Bandwidth	-9	-97 Hz O								OBW Power 99.00 %	Freq Offset 0 Hz

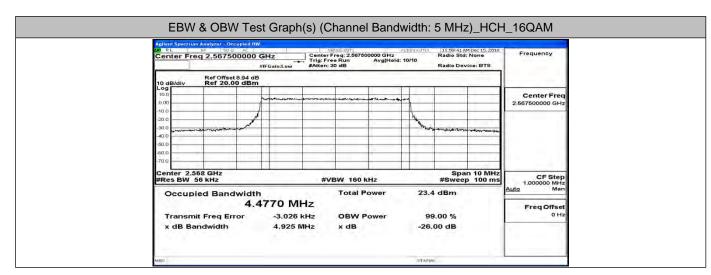
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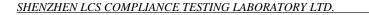
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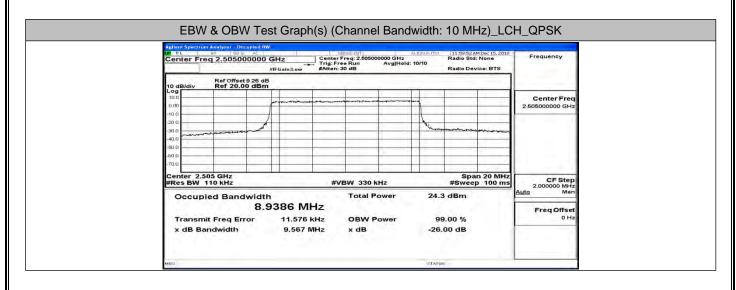


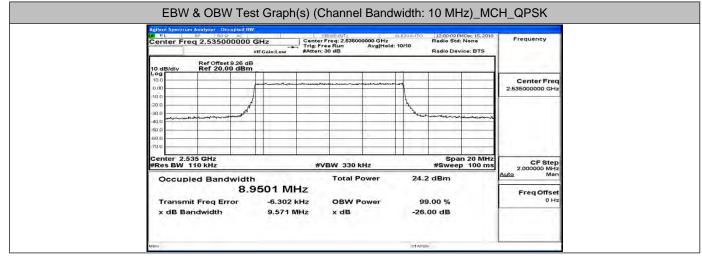


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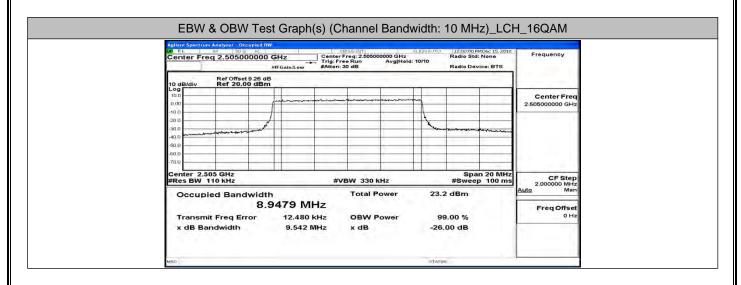


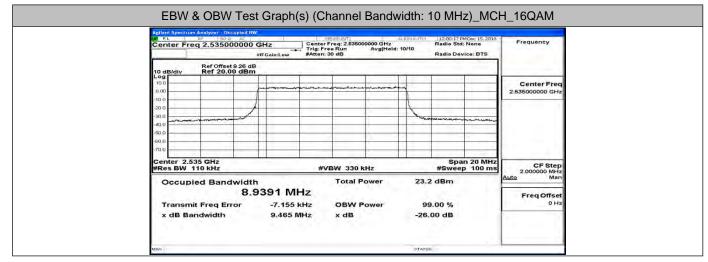
Center Freq 2,56500000		Center Fre		OGHz vg[Hold: 10	GNAUTIO 0/10	Radio Dev		Frequency
Ref Offset 8.94	dB	articen, co				Hadio Dei		
10.0 .0.00	Junior	*.P-#+****						Center Freq 2.56500000 GHz
-10.0 -20.0 -30.0 -30.0 -30.0 -30.0 -30.0					×.	نېزىرىنى مەرىپىرىنى مەرىپارىيىنى		
-80.0 -70.0 Center 2.565 GHz #Res BW 110 kHz		#1/8	W 330 kHz			Spa #Swaa	n 20 MHz	CF Step
Occupied Bandwic	32.57	VBW 330 kHz #Sweep 100 ms Total Power 23.9 dBm					2.000000 MHz Auto Man	
Transmit Freq Error x dB Bandwidth	-4.880 I 9.525 N	kHz	OBW Pow	er		9.00 % 00 dB		Freq Offset 0 Hz

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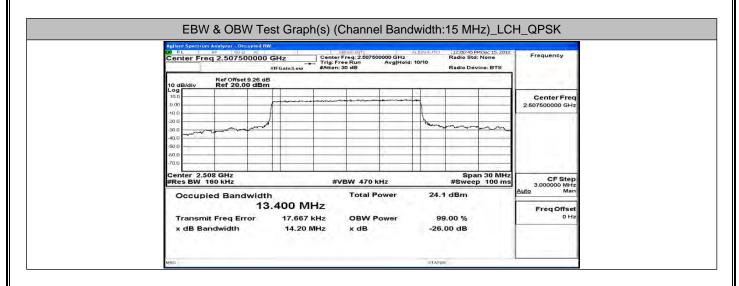


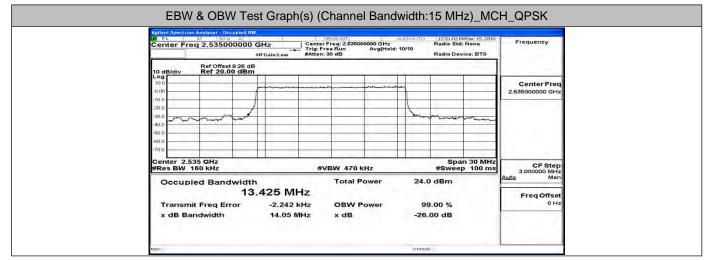
Agilent Spectrum Analyzer	SO & AC		55	PISE DIT	- 1	LIGNAUTO	12:00:36 P	MDec 15, 2018	
Center Freq 2.56		GHz #IFGain:Low	Center F	req: 2.56500 e Run	Avg[Hold:	10/10	Radio Std		Frequency
10 dB/div Ref 2	Tset 8.94 dB 0.00 dBm								
10.0 0.00						-			Center Fred 2.565000000 GH;
-10.0 -20.0 -30.0	and					the		-	
-40.0 -50.0 -60.0									
Center 2.565 GHz #Res BW 110 kHz			#\/	BW 3301		-		n 20 MHz	CF Step
Occupied Bandwidth				#VBW 330 kHz #Sweep 100 ms Total Power 23.0 dBm					2.000000 MHz Auto Man
Transmit Freq	9582 M -9.702 9.516 M			OBW Power 99.0		BW Power 99.00 %			Freq Offset 0 Hz

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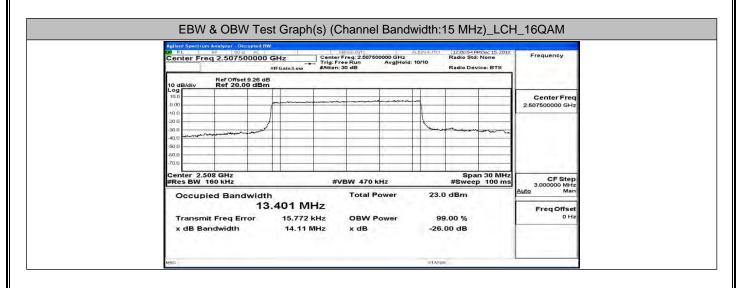


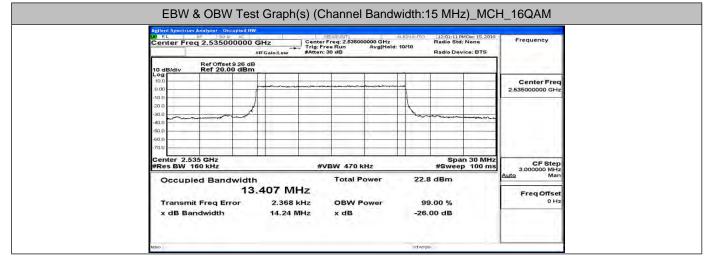
Agilent Spectrum Analyzer - Occupi DO RL RF 50 Gr /			ET ISE(DAT)	ALIGNAU	12:01:22	PMDec 15, 2018	
Center Freq 2.5625000		Center Trig: Fr	Freq: 2.562500000 G ee Run Avg	Hz Hold: 10/10	Radio S		Frequency
Ref Offset 8.5 10 dB/div Ref 20.00 d				~ ~			
10.0 0.00							Center Fred 2.562500000 GH
-20.0	1			her			
-40.0 -50.0 -60.0					_		
Center 2.563 GHz #Res BW 160 kHz		#V	/BW 470 kHz			an 30 MHz ep 100 ms	CF Step 3.000000 MHz
Occupied Bandw			Total Power	2	3.8 dBm	3 15	Auto Man
Transmit Freq Error x dB Bandwidth		3 MHZ .219 kHz 1.10 MHz	OBW Power x dB		99.00 % 26.00 dB		Freq Offset 0 Hz

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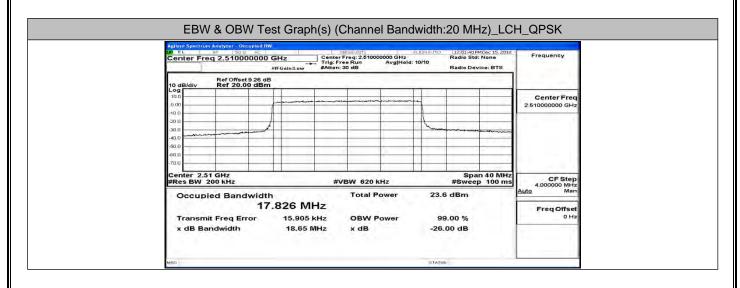


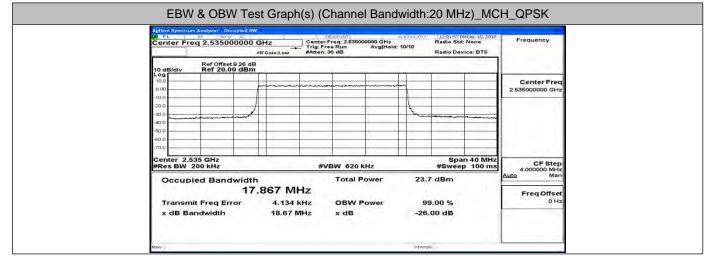
Center Freq 2,56250000	00 GHz	Trig: Free F	q: 2.562500000 GHz Run Avg/Ho	ALIGN AUTO	Radio Std:		Frequency
Ref Offset 8.94	#IFGain:Low	#Atten; 30 c	18		Radio Devi	ice: BTS	
10 dB/div Ref 20.00 dE	am			-			Center Freq 2.562500000 GHz
-10.0 -20.0 -30.0	4				and marked	روم می مانوند. میرون می مانوند.	
-60.0 -70.0							
Center 2.563 GHz #Res BW 160 kHz		#VBV	V 470 kHz		Spar #Sweep	n 30 MHz 0 100 ms	CF Step 3.000000 MHz
Occupied Bandwid			fotal Power	22.	7 dBm		<u>Auto</u> Man
Transmit Freq Error x dB Bandwidth	13.406 M -29.870 14.09 J	kHz C	DBW Power		9.00 % .00 dB		Freq Offset 0 Hz

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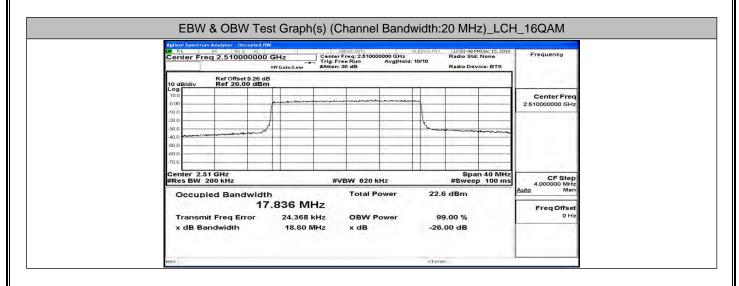


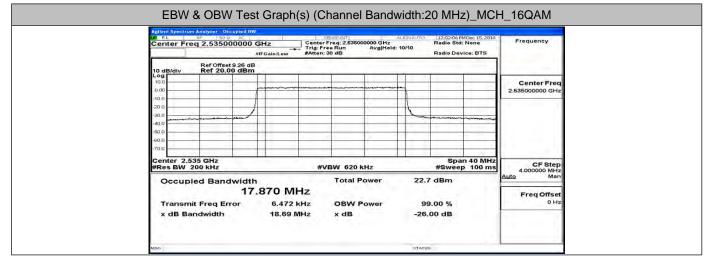
Frequency	10ec 15, 2018 None	Radio Std:	ALIGNAUTO	0000000 GHz AvglHold	enter Fre rig: Free I	Hz		RF 50	
1.1.1	ice: BTS	Radio Devi	- 3.45		Atten; 30	Gain:Low	278 CZ 75 27		
					- 1		set 8.94 dB 0.00 dBm	Ref Offs Ref 20	0 dB/div
Center Fre 2.560000000 GH				4			1	_	0.00
							10.0 20.0 30.0		
		**************************************							40.0
								-	90.0 70.0
CF Ste	n 40 MHz 0 100 ms	Spar #Sweep		0 kHz	#VBV				Center 2.5
Auto Ma		ō dBm	23.	Power			ndwidth	ied Ban	Occup
Freq Offse 0 H		9.00 %	9	Power		-32.872 k		nit Freq E	Transm
		00 dB				18.60 M		andwidth	

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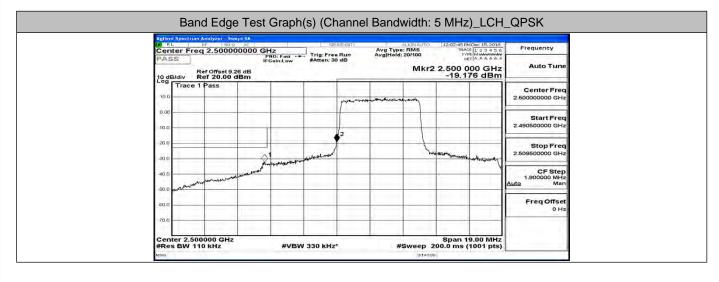




Center Freq 2,56000000		SERVER Center Freq: 2	560000000 GHz	ALIGNAUTO	12:02:24 PM Radio Std:	10ec 15, 2018 None	Frequency
	#IFGain:Low	#Atten: 30 dB	Avg[Hol	d: 10/10	Radio Devi	ice: BTS	
Ref Offset 8.94 10 dB/div Ref 20.00 dB							
10.0 0.00	paraman						Center Fred 2.560000000 GH
-10.0	A = 1		-	11			-
-30.0 -40.0							
-50.0			-				
Center 2.56 GHz #Res BW 200 kHz		#VBW (520 kHz			100 ms	CF Step
Occupied Bandwid	lth		al Power	22.	4 dBm		4.000000 MHz <u>Auto</u> Man
1 Transmit Freq Error	7.834 MH -28.897 k		W Power	9	9.00 %		Freq Offset 0 Hz
1. Charles A which is not a		Hz OB			9.00 % .00 dB		

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D.4 Band Edge



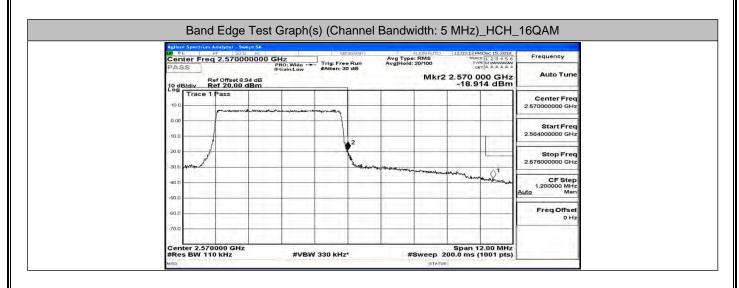
	trum Analyzer	Swept SA						1.0.00		
Center F		0000000 G	Hz		PIGEIDIT!	Avg Type Avg[Hold:	RMS	TRACI	1 2 3 4 5 6 E 1 2 3 4 5 6 E M A A A A A	Frequency
PASS	Ref Offse Ref 20.0	11 1 8.94 dB	PNO: Wide FGain:Low	#Atten: 3	o dB	Arginold.		2.570 0	00 GHz 92 dBm	Auto Tune
10.0 Trac	ce 1 Pass	7					1 1			Center Freq
0.00			montagenerate of	many						Start Fred
-10.0	1				2	-				2.564000000 GHz
-20.0	1				Lynnew					Stop Freq 2.576000000 GHz
-40.0				1		. i.e steller vi	the way to be	and you	Jumpern	CF Step 1.200000 MHz
-50.0										Auto Man Freg Offset
-60.0				-			1			0 Hz
		1.1.1		100			1		2.00 MHz	_

Center Freq 2.50000000 GHz PASS Trig: Free Run HealnLow Avg Type: RMS AvgIted: 18100 Trig: Center Freq (2.400500000 GHz -19.358 dBm Frequency Ref Offset 3.25 dB 10 dB/div Ref Offset 3.25 dB Ref Offset 3.25 dB Mkr2 2.500 000 GHz -19.358 dBm Auto Tune 10 dB/div Ref Offset 3.25 dB 000 Center Freq 2.6000000 GHz -19.358 dBm Center Freq 2.600000 GHz 2.600000 GHz Auto Tune 100 000 000 000 Center Freq 2.600000 GHz Center Freq 2.600000 GHz 300 000 000 000 Center Freq 2.600000 GHz Start Freq 2.50950000 GHz 300 000 000 000 CF Step 1.600000 Hz CF Step 1.600000 Hz 300 000 000 000 CF Step 1.600000 Hz CF Step 1.600000 Hz 300 000 000 000 000 000	Agilent Spectrum Analyzer - Swep		T ALIGNAUTIO 12:02:		
Ref Offset 9.26 dB Auto Tune 10 dB/div Ref 20.00 dBm -19.358 dBm 100 100 -19.358 dBm 2.6000000 GHz 100 100 100 2.6000000 GHz 2.6000000 GHz 100 100 100 100 2.6000000 GHz 2.6000000 GHz 100 100 100 100 100 2.600000 GHz 2.6000000 GHz 2.000 100	Center Freq 2.500000	000 GHz	Avg Type: RMS Avg[Hold: 19/100	TRACE 1 2 3 4 5 6 TYPE MMMMMM	Frequency
Trace 1 Pass Center Freq 000 2.60000000 GHz 000 300 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 2 000 4 000 4 000 4 000 4 000 4 000 4 000 4 000 4 000 4 000 4 000 4 000 4 000 4	10 dB/div Ref 20.00 dE	IFGain:Low #Atten: 30 dE	Mkr2 2.50	0 000 GHz	Auto Tune
0.00 0.00 <td< td=""><td>Trace 1 Pass</td><td></td><td></td><td></td><td></td></td<>	Trace 1 Pass				
Start Freq Start Freq 200 2 2.490500000 GHz 300 300 300 300 400 300 300 300 400 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300 300 300 400 300 300	10.0	m	minimum		2,50000000 GHz
200 2 Stop Freq 2.50950000 GHz 300 0					
300 300 <td></td> <td>♦2</td> <td></td> <td></td> <td></td>		♦2			
400 CF 58 cp 1			1 hoursen		
800 FreqOffset 0H2				method doubt	CF Step
800 FreqOffset 0H2	50 0 - manufacture of manufacture of the				
-70.0				11121	
	-70.0				0 Hz
	Center 2.500000 GHz		and a second second second	n 19.00 MHz	

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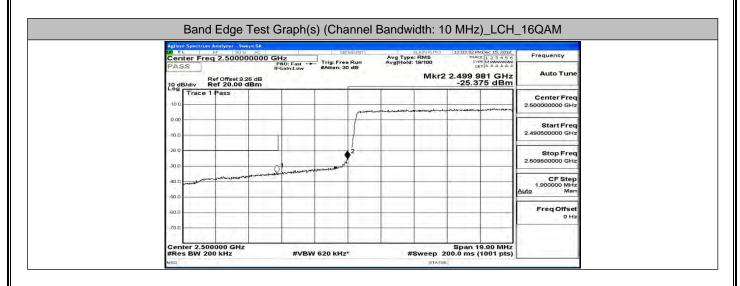
Center	R	nalyzer Sw F 90 0 2.50000		Hz		HEEDATI	Avg Type	RMS	12:03:23 PMI TRACE	123455	Frequency
PASS	v Re	off offset 9.2	IF 26 dB	NO: Fast Gain:Low	#Atten: 3	e Run 0 dB	Avg[Hold:		2.500 00	00 GHz 3 dBm	Auto Tune
10.0 Tr	ace 1	Pass						manim		whetemates	Center Freq 2.50000000 GHz
0.00					-						Start Freq 2.490500000 GHz
-20.0				-		2	_	1			Stop Freq 2.50950000 GHz
-30.0 -40.0			er-stonedu		- warne a						CF Step
-50.0	-						_				1.900000 MHz <u>Auto</u> Man
-60.0	-										Freq Offset 0 Hz
-70.0				1.1.						1.11	

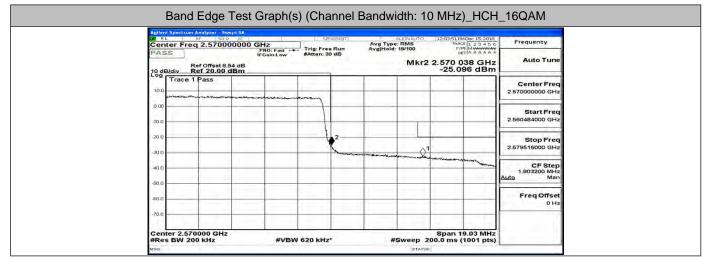
Agile		Analyzor Sv			55	PMSE(DVT)		ALIGN AUTO	12:03:42 PM	4Dec 15,2018	
	nter Fre		00000 G	HZ PNO: Fast -+	Trig: Fre	e Run	Avg Type Avg[Hold:	: RMS 20/100	TRAC	E 123456 E MMMMM T A A A A A A	Frequency
PA	B/div F	Ref Offset 8 Ref 20.00	94 dB	Gain:Low	#Atten: 3	D dB			2.570 0	00 GHz 29 dBm	Auto Tune
10.0	Trace	Pass						-			Center Freq 2.570000000 GHz
-16.0									<u> </u>		Start Freq 2.560475000 GHz
-20.0	-					2				A1	Stop Freq 2.579525000 GHz
-30.0	1.1					A at the spec		6,000 Mar. 200		and a	CF Step 1.905000 MHz
-50.0											Auto Man Freq Offset
-70.0	-	1									0 Hz

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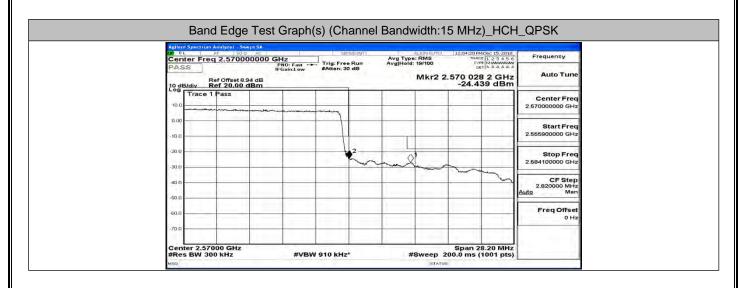


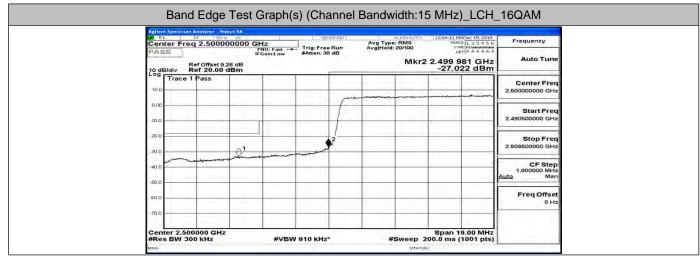
L)KI	RL	um Analyzo RF	50 0 A	C	- 1-	1 5	EMGE:DVT]	. T.	ALIGN AUTO	12:04:01 PMDec	15,2018	Frequency
	ss	eq 2.50	000000	PI	Z IO: Fast	Trig: Fre	e Run	Avg Ty Avg[Hol	d: 20/100	TRACE 1	23456 AAAAA	Trequency
10	dB/div	Ref Offs Ref 20	et 9.26 d	в	sain:Low	PALEN			Mkra	2 2.499 981 -23.779	GHz	
10	Trace	e 1 Pass	67									Center Freq 2,50000000 GHz
0.0	io	-	-	-			1	-				Start Freq
-10		_										2.490500000 GHz
-20	16-			0	~		Ý					Stop Freq 2.509500000 GHz
-48.	•											CF Step 1.900000 MHz Auto Man
-60	0	_			-						-	Freq Offset 0 Hz

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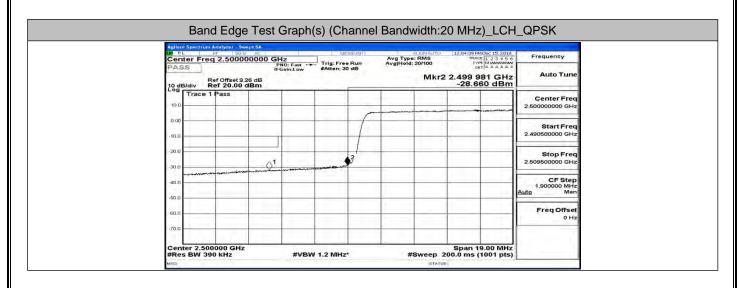


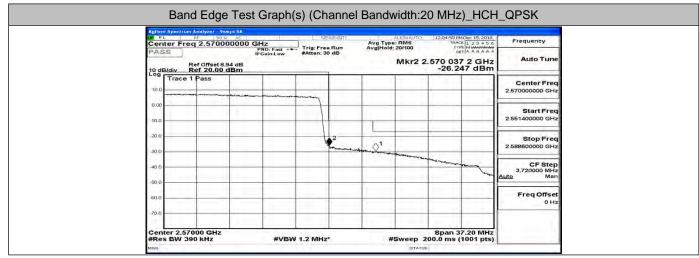
Center Freq 2.570000000 GHz PASS Trig: Free Run Broan Low Ave Type: RNS Ave Type: RNS		12:04:30 PMDec 15, 2018	ALIGNAUTO	ENGE:DAT		lyzer Swept SA SO'S AC		Agilent
PASS iFGeinLow PAtter: 30 dB Mkr2 2:570 000 GHz Auto Tune 10 dGldw Ref 076et 8:04 dB -26.770 dBm -26.770 dBm -26.770 dBm 100	Frequency	TRACE 1 2 3 4 5 6	Avg Type: RMS Avg[Hold: 20/100	ee Run	Trig: Fr	.570000000 GH	nter Freq 2	Cent
Center Freq Center Freq 100 257000000 GHz 000 255531000 GHz 100 255531000 GHz 200 2 300 2 400 2 400 CF Step 500 Freq Offset	Auto Tune	2 2.570 000 GHz		30 dB	sin:Low #Atten:	IFC	B/div Ref	10 dB
Start Freq Start F	Center Freq 2.57000000 GHz					iss	Trace 1 P	
300 22 1 Stop Freq 2.88409000 GHz 40.0 2.00 2.00 2.00 40.0 2.00 2.00 2.00 40.0 2.00 2.00 2.00 40.0 2.00 2.00 2.00 40.0 2.00 2.00 2.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 40.0 7.00 7.00 7.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.1.1</td>								1.1.1
400 CF Step 2.815000 MHz 400 Eco Offset			01	2				100.0
800 Freq Offset	2,818000 MHz		martine					1.0
								1 m

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LK R		RF 50			SE	ISE:DAT		ALIGN AUTIO	12:04:50 PMDec 15, 2018	
Cer	nter Fre		000000 GI	NO: Fast -	Trig: Fre	Run	Avg Type Avg[Hold		TRACE 123450 TYPE MUMANANA DET A A A A A	Frequency
10 d	B/div	Ref Offset S Ref 20.00	26 dB	Gain:Low	#Atten: 3	D dB		Mkr2	2.499 734 GHz -29.661 dBm	Auto Tune
10.0	Trace	1 Pass								Center Freq 2.50000000 GHz
0.00						T		~		Start Freq 2.490500000 GHz
-10.0	-							1		Stop Freq
-30.0		-	Have marked	-	al and a state of the second	1				2.509500000 GHz
-40.0									1	CF Step 1.900000 MHz Auto Man
-60.0										Freq Offset
-70.0		-	-	_			-			

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L P 200 pC SEEBUT AUGRATIC 1203509806/2552004 Prequency Wet P Freq 2, 5700000000 GHz Prest Frequency Avg Type: RMS Prequency Auto Tune SS Provide 83.4 dB Mkr2 2, 570000000 GHz Prequency Auto Tune Brduy Ref Offset 8.94 dB Mkr2 2, 57000000 GHz Center Freq Trace 1 Pass 22 1 2551320000 GHz Center Freq 2551320000 GHz Center Freq 2,551320000 GHz 22 1 2551320000 GHz Center Freq 2,551320000 GHz Start Freq 2,551320000 GHz 22 1 2,551320000 GHz 2,551320000 GHz 23 3,3736000 GHz 2,588860000 GHz 2,5503000 GHz 2,580000 GHz 3,3736000 GHz
Ref Offset 8.94 dB Mkr2 2.570 00 GHz Auto Tune B/div Ref 20.00 dBm -28.081 dBm Center Freq Trace 1 Pass
2.57000000 GHz 2.55132000 GHz 2.58858000 GHz 2.58858000 GHz 2.58858000 GHz 2.58858000 GHz 2.58858000 GHz 3.73600 MHZ
2.55132000 GH2 2.588680000 GH2 2.588680000 GH2 CF Step 3.736000 MH2
2.588680000 GH2 CF Step 3.73600 MH2
CF Step 3.73600 MHz
FreqOffset

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D.5 Conducted Spurious Emission

200	RL	Spectrum	RF	50 9 /	NDC I	-T	1	SENSEIINT		vg Type:		11:59:12 4	MDec 21, 2018	Frequency
	era	errie	q 79.5	500 K		PNO: Wide FGain:Low	#Atte	Free Run n: 22 dB	A	vg Hold: 1	9/100		MDec 21, 2018 CE 1 2 3 4 5 6 PE MUMUUU ET A A A A A A	Auto Tune
2	o dB.	/div	Ref Offs Ref 10	et 10.6 .58 d	58 dB Bm						N	1kr1 10. -60.7	269 kHz 61 dBm	Autorune
	580	Ê			1	-	-					1		Center Freq 79.500 kHz
	9.42	-										1		
-1	19.4		-				_	_						Start Freq 9.000 kHz
3	29,4	_	-	_		-	_		_					Stop Freq
4	39.4 -	-	-			-	-	_			_			150.000 kHz
4	49.4		-				-				-		-55.00 dBm	CF Step 14.100 kHz
-6	59 4	1.					-				111			Auto Man
-6	69.4	A.M.A	MANY	nMayl	wine al	Ameral Mr.	A							Freq Offset 0 Hz
-7	79.4		,		· 14 44	- MAR IN	WAM	many	Marker 1	underlighted	MAND	American	/W/W////// 50.00 кнг	
S #		9.00 k BW 1.		1			SW 3.0 k						50.00 kHz (1001 pts)	· · · · · · · · ·
10	9 1 3	_					111		_		STATUS	S L DC Co	upled	-
1.00	RL	Spectrum	RE	50.0 4	OO MH	1		SENSE: INT	A	vg Type:	RMS	11:59:21 A	MDec 21, 2018 CE 1 2 3 4 5 6	Frequency
						PNO: Fast FGain:Low	#Atte	Free Run n: 16 dB	A	vg)Hold: I	8/100		150 kHz	Auto Tune
Ľ	o dB.	/div	Ref Offs Ref 10	et 10.6	58 dB Bm				-		_	-70.2	30 dBm	
Q.	580 -	-					_	_	_		_		-	Center Freq 15.075000 MHz
4	9.42	-	-	_		-	-	_	-	-				Start Freq
-1	19.4	-	-	_	-		-	-	-	-				150.000 kHz
-7	29,4	-	-			-	-							Stop Freq
4	39.4		-				-						-45,00 ct0m	30.000000 MHz
-4	49.4		1			1	-		1					CF Step 2.985000 MHz Auto Man
	59.4	1	-		1.101									Freq Offset
	59.4	house	1			1	1.5.	1	110			1	1.1.1	0 Hz
-7	79 4 9	2. Alexandre	Wandshill	manifiation	en, classification	numphysical	and white the	frey flow of all its	rithing with	after Highward	molinination		an line line in the	
S #	tart Res	150 ki BW 1	Hz 0 kHz			#VE	3W 30 KI	Hz*		s		168.3 ms	0.00 MHz (1001 pts)	
	silant.	Spectrum	Anglese	r - Sure	11.54		1.11.1	_			STATU	s 🦺 DC Co	upled	
1.00	RL		RF	50 0	00000		Tria:	SENSEINT	A	vg Type: vg]Hold:	RMS	11:59:24 A TRA D	MDec 21, 2018 CE 1 2 3 4 5 6 PE MWWWWWW ET A A A A A A	Frequency
1			Ref Offs	et 9 9	-	FGain:Low	#Atte	n: 40 dB				kr2 25.0	510 GHz	Auto Tune
29	o dB.	/div	Ref Offs Ref 30	.00 d	Bm	1	-	-	1			-28.7	76 dBm	ConterFre
2	20.0	-							-					Center Freq 13.015000000 GHz
	10.0		°'				-				1			Start Freq
τ	0.00 -		-				-							30.000000 MHz
	10.0													Stop Freq 26.00000000 GHz
	20.0	_					-				-		-25,00 • 3	CF Step
.2	- H		here		m			and		man and	مسبهم	terterment	- Minora	2.597000000 GHz Auto Man
10 12	30.0			100		- former	a grant	-						
-2 -3	40.0	mon and												Freq Offset
2 3 4 4		and and a series												Freq Offset 0 Hz

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EX7 P	1	m Andlyzer RF S eq 79.50	0 9 ALCC	1	58	NSE(INT]	Avg Type	ALIGNAUTO RMS 9/100	11:59:58 AI	MDec 21, 2018	Frequency
		Ref Offset Ref 6.58		PNO: Wide – IFGain:Low	#Atten: 1	e Run 8 dB	Avg Hold:		Mkr1 9.4	423 kHz 25 dBm	Auto Tune
-3 42	1										Center Fred 79.500 kHz
-13.4	i										Start Fred 9.000 kH
-33.4				-							Stop Free 150.000 kH
-43.4											CF Step 14.100 kHz
-63 4	1 mars	10.		-	-						Auto Mar
-73.4		AN MOW	monung	WarNurAynyAy	Washing	wanter	warman	Mana	Manuellant	malute	0 Ha
Sta #Re	rt 9.00 s BW 1				V 3.0 kHz			Sweep 1		1001 pts)	
Agilo	L	m Analyzer RF S	DAMOC	1	SE	NSEIINT	Avg Type	ALIGNAUTO	12:00:03 P	MDec 21, 2018	Frequency
		Ref Offset	10.58 dB	IZ PNO: Fast → IFGain:Low	Trig: Fre #Atten: 1	e Run 0 dB	Avg Hold:	8/100	1kr1 3.4	04 MHz	Auto Tune
10 d Log	B/div	Ref 10.5							-00.2		Center Fred 15.075000 MHz
-9.42											Start Fred 150.000 kHz
-29.4											Stop Free 30.000000 MH;
-39.4										-45.00 dBm	CF Step 2.985000 MH:
-59 4		↑ ¹							1		Auto Mar Freq Offsel
-79 4	dallanter	whythe	Artillanson	nt have been and	. Wille be lines	and the second state	as motion and	and also and the set	boutestan	til militalantic.	0 H:
Sta #Re	rt 150 k Is BW 1	Hz 10 kHz	. L. a Maine and a	#VBI	N 30 kHz*		and and the former	oweep a	Stop 3 68.3 ms ((too i pis)	
LK P	L	m Andlyzer RF S eq 13.01	5wept 5A 0.0 AC 50000000	PNO: Fast -	Trig: Fre	NSE:INT	Avg Type Avg]Hold:	ALIGN AUTO RMS 4/100	12:00:06 Pl TRAV TY	MDec 21, 2018 TE 1 2 3 4 5 6 PE MWWWWWWWWW ET A A A A A A	Frequency
10 d	B/div	Ref Offset Ref 30.0	9.98 dB 0 dBm	IFGain:Low	#Atten: 4	0 48			kr2 25.6	36 GHz 22 dBm	Auto Tune
20.0		*									Center Fred 13.015000000 GH:
10.0											Start Free 30.000000 MH
-10.0		+		-							Stop Fred 26.00000000 GHz
-20.0							~	مىدىرىد	-	-25.00 c 2	CF Step 2.597000000 GH:
-40.0	man	- man	mann		and the second second				1		Auto Mar Freq Offset
-60.0											0 H:
1.1.1.1	rt 30 M					1			Dian 2	6.00 GHz	

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LK/ R	CL .	RF RF	50 2 1	DC [-1-	5	ENGE:DVT]	Avg Typ Avg[Hold	ALIGN AUTIC	12:06:29 P TRA	MDec 15,2018 CE 1 2 3 4 5 6 PE M	Frequency
	IB/div	Ref Off	set 8 58	dB	PNO: Wide + FGain:Low	Trig: Fre #Atten: *	le Run 16 dB	Avg[Hold		Mkr1 9.	564 kHz 42 dBm	Auto Tune
-5.42		-		-								Center Fred 79.500 kH:
-15.4												Start Fred 9.000 kH:
-35.4	-											Stop Free 150.000 kH;
-45.4	1										-55.00 dBm	CF Step 14.100 kHz
-65 A	1- Manh	Madle.		1								Auto Mar Freq Offse
-85.4		(comple	mandulary	Mary My	When when the	manyazar	untrafficial.	Whywe	Magginga	havalitates	о H:
#Re	rt 9.00	kHz 1.0 kHz				W 3.0 KHz			Sweep 1	Stop 1: 74.0 ms	50.00 kHz (1001 pts)	
 Agilor	L.	um Analyza RF	or - Swop 50 9 4	i SA	T	5	PNSEIINT	. 1.	ALIGN AUTO	DC Co	MDec 21, 2018	Frequency
		Ref Off	set 10.5	1 8 dB	r PNO: Fast – FGain:Low	Trig: Fre #Atten:	e Run 10 dB	Avg Typ Avg Hold	: 8/100	Akr1 6.0	090 MHz	Auto Tune
10 d Log	B/div	Ref 10).58 de	3m						-55.8		Center Fred 15.075000 MH:
-9.42												Start Free 150.000 kH
-19.4	_							_				Stop Fred
-39.4	_			1							-45.00 dBm	30.000000 MH: CF Step 2.985000 MH:
-59 4	100	1	N ^{PALINIAN}	whether the state				1				Auto Mar
-69.4	Jackeybert	manalad			Windhauth	handled	يريدون وتساريهم	. M.P.B. 1 - Journal	nai - longlant, a	Lacherton	-	0 H:
Star #Re	rt 150 s BW	kHz 10 kHz				N 30 kHz		daarbo analo	Sweep 3	Stop 3 68.3 ms	0.00 MHz (1001 pts)	P
 RKI B	1	um Analyza RF	50.0	- 0C	т	5	ENSE: THAT	udga.	ALIGN ANTC -	5 12:00:41 P		Frequency
		Ref Offe		1	GHZ PNO: Fast - FGain:Low	Trig: Fre #Atten: 4	e Run 10 dB	Avg Typ Avg Hold			MDec 21, 2018 CE 1 2 3 4 5 6 PE MUMANA ET A A A A A A 662 GHz 57 dBm	Auto Tune
10 d 20 0	B/div	Ref 30).00 di	3m						-28.6	S/ aBm	Center Free 13.015000000 GH:
10.0	1.1	-01	-			-		-				Start Free
-10.0												30.000000 MH: Stop Fred
-20.0	-										-25,00 c 3	26.00000000 GH: CF Step 2.597000000 GH:
-40.0	-	man		www.		mun	- Maria	~~		a show the algos	man	<u>Auto</u> Mar
-50.0										1		Freq Offse 0 H
-60.0	-	_										

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LK R	CL 1	RF RF req 79.5	SD 9 ADC			SENSE: INT	Avg Type	RMS	11:59:36 A	MDec 21, 2018 1 2 3 4 5 6	Frequency
		Ref Offse Ref 10.		PNO: Wid IFGain:Lo	a Trig: F w #Atter	ree Run 22 dB	Avg Hold:	8/100	kr1 12.	102 kHz 38 dBm	Auto Tune
Log 0.580	B/div	Ref 10.						-	UL.L		Center Freq 79.500 kHz
-9.42					-						Start Freq 9.000 kHz
-19.4											Stop Freq
-39.4	-										150.000 kHz CF Step
-59 A	1	-					-			-55 00 dBm	14.100 kHz Auto Man
-69.4	(* Y W	And Mark	Manut	many	empre All	an man and	apontup	Autor	Antetan		Freq Offset 0 Hz
#Re	rt 9.00 s BW	kHz 1.0 kHz		#	/BW 3.0 KH	12*	al way were	Sweep 1	4.0 ms (1001 pts)	_
LKI R	CL.	um Andiyzor RF	SDRADC			SENSE: INT	u ku e	ALISN AUTO-	L DC Col	MDec 21, 2018	Consultant
		Ref Offse	-	PNO: Fas IFGain:Lo	Trig: F #Atter	ree Run : 10 dB	Avg Type Avg Hold:		kr1 3.4	04 MHz	Frequency Auto Tune
10 d	B/div	Ref 10.	t 10.58 dB 58 dBm						-71.0	40 dBm	Center Freq 15.075000 MHz
-9.42	ł			-	-	-			1		Start Freq 150.000 kHz
-19.4		_									Stop Freq
-39.4										-45,00 dBm	30.000000 MHz CF Step
-59.4			_	-						1.14	2.985000 MHz Auto Man
-69.4	hilling	manufact.								1-1.	Freq Offset 0 Hz
Sta	rt 150 s BW	KHZ 10 KHZ	alter her hidered	terstations	Numrytallu /BW 30 KH	hibubya/hipacalant zn	(opforr)doewedde i	aweep o	0.5 ms ((too i pis)	
LK R	CL.	um Analyzor RF	50 g AC	DO GHZ		SENSE: INT	Avg Type		111:59:44 Al	MDec 21, 2018 TE 1 2 3 4 5 6 PE MWWWWWW ET A A A A A A	Frequency
10	B/div	Ref Offse Ref 30.	t 9.98 dB	PNO: Fas IFGain:Lo	Trig: F #Atter	ree Run :: 40 dB	Avg Type Avg Hold:		r2 25.6	62 GHz	Auto Tune
20.0											Center Freq 13.015000000 GHz
10.0		1									Start Freq 30.000000 MHz
-10.0				_							Stop Freq 26.000000000 GHz
-20.0	-									-25.00 e 2	CF Step 2.597000000 GHz
-40.0	University of	- hung	mm	-		man mar					Auto Man
-50.0											0 Hz
60.0	-										

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Report No.: LCS181130005AEG

100	RL	RE	79.500		PNO: Wide +	Trig: Fre		Avg Type Avg]Hold:	ALIGN AUTO	12:00:15 PM TRAC	Dec 21,2018 1 2 3 4 5 6 E MUMUUUU T A A A A A A	Frequency
10	dB/div	Re	Offset 1		PNO: Wide IFGain:Low	#Atten: 6	dB	Availation.		kr1 15.9	09 kHz 33 dBm	Auto Tune
-3 4	1	1										Center Freq 79.500 kHz
-13												Start Freq 9.000 kHz
-33												Stop Freq 150.000 kHz
-63		_									-SS-60 dDm	CF Step 14.100 kHz Auto Man
-63	4	1								1		Freq Offset
-83				hour	antipliture	Montput	MANAA	month	nminn	W/WWWW	www.www.www.w	
Sta #R	art 9.0 es BV	0 kHz V 1.0	kHz		#VB	W 3.0 kHz	•	4	Sweep 1 status	Stop 15 74.0 ms (1 DC Cou		
2.80	RL	RE	15.075		z	and the second s	NSEITNT	Avg Type Avg Hold:	ALIGN AUTO	12:00:21 PM TRAC	Dec 21,2018 1 2 3 4 5 6 MWWWWWW 7 A A A A A A	Frequency
10	dB/div	Re	Offset 1 f 10.58		PNO: Fast -	#Atten: 1	0 dB	Avginola.		lkr1 3.4	04 MHz 35 dBm	Auto Tune
0.58	1											Center Freq 15.075000 MHz
-9.4										1		Start Freq 150.000 kHz
-29		-								-		Stop Freq 30.000000 MHz
-39	-										-45.00 dBm	CF Step 2.985000 MHz
-59	1.0		1									Auto Man Freq Offset
-79	4 Willion	+lunger	1	handyamation	enter and the second	espolatellaritie	chamber and planting	expension in the	an manager and the second	Anna langa da ka	unglan ange	0 Hz
Sta #R	art 15 es BV	0 KHZ V 10 K	1. S.			W 30 KHZ*			Sweep 3	Stop 3	0.00 MHz 1001 pts)	
1,10	RL	R	diyzor 5 50 13.015	A 96	GHz	52	NSEITNT	Avg Type Avg Hold:			IDec 21, 2018 Е 1 2 3 4 5 6 Е МУЖИМИ Т А А А А А	Frequency
		Re	Offset S	.98 dB	GHZ PNO: Fast IFGain:Low	#Atten: 4	e Run 0 dB	Avg Hold:		r2 25.6	36 GHz 48 dBm	Auto Tune
20	dB/div											Center Freq 13.015000000 GHz
10.		-	1									Start Freq 30.000000 MHz
-10.												Stop Freq 26.00000000 GHz
-20	-									artestan, and	-25.00 + 2	CF Step 2.59700000 GHz
-40		_	m	man	manner	-			*****			Auto Man Freq Offset
-50	1	_										0 Hz
					-						6.00 GHz 1001 pts)	

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Report No.: LCS181130005AEG

ŝ.	opt SA A⊡⊂ kHz	i i				SEMISE:	DØTI		1	LIGN AUT	10. I	12:06:391	MDec 15,201	Frequency
1	KHZ	P	NO: Wid		Trig: F #Atter	ree Ru	m	Ave	g Type: g Hold:	B/100		T	CE 12345 PE MMMMM ET A A A A A	2
3.5 dE	ie dB Sm					11.12					Mk		243 kH 55 dBr	
														Center Fr 79.500 k
			-	_		-				-				
_		-	-	_	-	-		-		-	-			Start Fr 9.000 k
		-	-	-	-			-		17		-		Stop Fr 150.000 k
													-55.00 de	
														Auto N
			-										1	FreqOffs
art	MMM	whe	Mur	Way	why May	mps	MM	MAA	mym	ww	Why	wwglight	man	0 M
ļ				_	-	10	U.	1				Stop 1	50.00 KH	z
			#\	BW	3.0 KH	lz*			s		174	DC Co	(1001 pts	=) [
9	opi SA		-1			SENSE:	INT	1	1, 2	LIGN ANT	6 1	12:00:54 8	MDec 21, 201	Frequency
	000 N	P IF	NO: Fast Gain:Lov	~	Trig: F #Atter	ree Ru 10 de	3	Avs	g Type: g Hold:	B/100			ET A A A A A	1
10. d	.58 dB	3	_		1			_			Mk	-56.2	26 dBr	
					-			-		-		-		Center Fr 15.075000 M
			-	-		-	-	-		-	-	-		Start Fr
-	-	-	-	-	-	-	-	-	-	-	+			150.000 k
1										-				Stop Fr 30.000000 M
		_						-					-45.00 dB	CESt
her	ALL HAN								_					2.985000 M Auto
		M					-							Freq Offs
		-	la ar i		1.1.4							da ko	ad do not	-
		-			1000		##54K)	P))Phil		1		Stop 3		z
			#\	600	30 kH	<i>C</i> .						DC Co	(1001 pts upled	9 L
Ĥ.	pt 5A AC	00 6	SHZ			SENSE:	INT	Av	g Type:	RMS	6 1	12:00:57 F	MDec 21,201 CE 1 2 3 4 5 PE MWWWW	6 Frequency
		P	NO: Fast Gain:Lov		Trig: F #Atter	ree Ru : 40 de	3	Avs	g Type: g Hold:				DOO GH	A
9.9 d	8 dB	4	-		_			1				-28.7	73 dBr	
		_	-	-	-		-	-		-		-		Center Fr 13.015000000 G
	-			-		-		-		1	-	-		Start Fr
		_												30.000000 M
														Stop Fr 26.00000000 G
													-25,00 c ;	CF St 2.597000000 G
~	, man	white		ma	-	-	-	and	n me	men	marris	man	- Vine a	2,597000000 G Auto N
	-				_		-							Freq Offs
	1			_							-			
		_	-					1						

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LK/ F	CL .	RF 50 90 79.500	S VDC	1	Trig: Fre	e Bur	Avg Type Avg[Hold	ALIGNAUTIC	12:06:53 PI TRAC	MDec 15,2018 CE 1 2 3 4 5 6 PE MMMMMM ET A A A A A A	Frequency
10 d	B/div	Ref Offset 8 Ref 8.58		PNO: Wide + FGain:Low	#Atten: 2	2 dB	an ionu		Mkr1 9.4	423 kHz 28 dBm	Auto Tune
-1.42											Center Freq 79.500 kHz
-11.4											Start Freq 9.000 kHz
-31.4											Stop Freq 150.000 kHz
-41,4	-1									-SS.00 dBm	CF Step 14.100 kHz Auto Man
-61 4	Mann	Madrat	0. A. YA								FreqOffset
61.4		.A.A.Aw	WARNAN	why have	whiteway	Hormer All Mar	new should	www.haw	Kalinna	monor	0 Hz
Sta #Re	rt 9.00 H s BW 1	HZ			W 3.0 kHz			Sweep 1	Stop 1:	50.00 kHz (1001 pts)	
EX7 F	CL.	RF 50	5000 MH2		and the second second	MGE:D\$T]	Avg Typ	ALIGNAUTIO	12:06:50 0	MDec 15,2018 CE 1 2 3 4 5 6 PE M WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Frequency
		Ref Offset 8	4	PNO: Fast + FGain:Low	#Atten: 1	e Run 0 dB	Avg[Hold		Mkr1 1.8	81 MHz 89 dBm	Auto Tune
-1 42											Center Freq 15.075000 MHz
-11.4											Start Freq 150.000 kHz
-31.4	-						-				Stop Freq 30.000000 MHz
-41.4										-45.00 dBm	CF Step 2.985000 MHz
-61 4	•										Auto Man Freq Offset
-81.4	-	here with the	-	Manatatatist	ally replay have	physicalitation	n.		ne-triveneellayen	And whether whether	0 Hz
Sta #Re	rt 150 k s BW 1	Hz 0 KHz		-	W 30 KHz*			Sweep 3	Stop 3	0.00 MHz (1001 pts)	
LK/ F	KL I	n Analyzor - S RF - S0	AC AC	GH7	1	MEE:D\$T]		ALIGN AUTIO	12:07:02 P	MDec 15, 2018	Frequency
10		Ref Offset 1 Ref 30.00		PNO: Fast + FGain:Low	#Atten: 4	e Run 0 dB	Avg Type Avg[Hold		kr2 25.6	36 GHz	Auto Tune
20.0	B/div	Ref 30.00									Center Freq 13.015000000 GHz
10.0	1.1.1	0 ¹									Start Freq 30.000000 MHz
-10.0	11 11						-				Stop Freq
-20.0	-									-25.00 00-	26.000000000 GHz
-40.0	man	him	man	-	Marrisonand		- and the second	and a second		m	CF Step 2.597000000 GHz <u>Auto</u> Man Freq Offset
-50.0	1										0 Hz

LK RL	Freq 79.500	a Vac I		EPI6E(DgT)	ALIGN AU Avg Type: RMS Avg[Hold: 8/100	TIC 12:07:34	MDec 15, 2018 CE 1 2 3 4 5 6 CPE MMMMMM ET A A A A A A	Frequency
10 dB/div	Ref Offset 8	PNO	: Wide Trig: Fr sin:Low #Atten:	ee Run 22 dB	Avg Hold: 8/100	Mkr1 9	987 kHz 66 dBm	Auto Tune
-1 42								Center Fred 79.500 kH
-11.4								Start Fred 9.000 kHz
-21.4								Stop Fred
-41.4								150.000 kH
-61 4 1							-55.00 dBm	14,100 kHz Auto Mar
-71.4 MAY	Margan	Vannannan	Marchard Mar MA		- 61 4 4	10 4		Freq Offsel 0 Ha
-01 4 Start 9.0	0 kHz		manageneration	M. W. M. Maran	Kura Wandar And	Stop 1	50.00 KHZ	
#Res BW	N 1.0 kHz	-	#VBW 3.0 kHz	2*	Sweep	174.0 ms	(1001 pts)	
LK RL	Freq 15.075	000 MHz	D: Fast Trig: Fr sin:Low #Atten:	ee Run	ALIGN AU Avg Type: RMS Avg[Hold: 8/100	TO 12:07:391 TR/ T	MDec 15,2018 CE 1 2 3 4 5 6 CPE MVMMMMM ET A A A A A A	Frequency
10 dB/div	Ref Offset 8 Ref 8.58 c	.58 dB	iin:Law #Atten:	10 dB	1	Mkr1 7.	105 MHz 13 dBm	Auto Tune
-1 42						-		Center Frec 15.075000 MH
-11.4						1		Start Fred 150.000 kHz
-31.4								Stop Fred
-41.4	_					-	-45.00 dBm	30.000000 MH2 CF Step
-61_4		1						2.985000 MHz Auto Mar
-71.4	a hour devictor where							Freq Offsel 0 Ha
814 17		- inde	and Ulabaran and an anglish and	introduction and the	indulated and a constants	J 92. 3 11	104 MANAMAN	
#Res BW	V 10 kHz		#VBW 30 kHz	*		368.3 ms	(1001 pts)	-
LOO RL	Freq 13.015	000000 GH	1z D: Fast →→→ Trig: Fr	ense ogt) ee Run	ALIGN AU Avg Type: RMS Avg[Hold: 4/100	ТО 12:07:42 ТКИ Г	MDec 15,2018 CE 1 2 3 4 5 6 CPE MVMVMMV	Frequency
10 dB/div	Ref Offset 7 Ref 30.00	IFGa	in:Low #Atten:	40 dB		Mkr2 25.		Auto Tune
20.0								Center Fred 13.015000000 GH
10.0	1					1		Start Free 30.000000 MHz
								Stop Free
-10.0								26.00000000 GH
-10.0						-	-25.00 -2	
-10.0				aparta	~~~~	manin	-25.00 cm	CF Step 2.597000000 GH2 <u>Auto</u> Mar
-10.0 -20.0 -30.0	and the second	4			~~~~	~~~~~	-25.00 cm	CF Step 2.597000000 GH2 <u>Auto</u> Mar Freq Offsel 0 H2

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Report No.: LCS181130005AEG

0	O RI	ter Fre	RF	50 2 1	DC I	-1-	1 0	SENSE:DAT]	Ave Tur	ALIGNAUTO	12:08:12 PM	40ec 15,2018	Frequency
	Jen	ler Fre	iq 79.5	JUU K	nz IF	NO: Wide - Gain:Low	Trig: Fi	ree Run 10 dB	Avg Typ Avg[Hold			E 123456 E MMMMM T A A A A A A	In an arrest
1	IO dE	B/div	Ref Offs Ref 8.5	et 8,58	dB		1.0			N	1kr1 28. -62.1	176 kHz 51 dBm	Auto Tune
	1.42		-		-								Center Free 79.500 kHz
	11.4	-				-	-	-	-				Start Fred
	21.4												9.000 kHz
	41.4												Stop Fred 150.000 kHz
-	61.4											-55.00 dBm	CF Step 14,100 kHz
	61 4	Norther	Ang Av	1 Virantel	A an ma	A Ama	numum	Marahan	Manaprille	mar Mar All	NINAMA	UNMANNA	Auto Mar
- 1	71.4 01.4	A IAN	di fe	1 x 2004 . 11	Mart	Westw	ad lass the s	An AN IA.	A free lit > be	ain define	dine - 10 M	. It. al ad	Freq Offset 0 Ha
	3.1									1		0.00.4445	
#		t 9.00 k s BW 1.	0 kHz			#VB	W 3.0 KH	Z*			74.0 ms (
0	C RI	t Spectrum	RF	50 2 1	DC	-1	. 17	SENSEDUT		ALION ALITO	12:08:17 PM	4Dec 15,2018	Fragueseu
C	Cen	ter Fre	q 15.0	07500	I MHz	NO: Fast + Gain:Low	Trig: Fi #Atten:	ree Run 10 dB	Avg Typ Avg[Hold		TRAC	E 123456 E MMMMMM T A A A A A A	Frequency Auto Tune
2	o de	B/div	Ref Offs Ref 8.5	et 8.58	dB m	-	-	-		N	/kr1 3.9 -54.3	71 MHz 12 dBm	
	1.42				_			-	-				Center Frec 15.075000 MH
	11.4				1.			1			-		Start Fred
	31.4												
	41.4											-45.00 dBm	Stop Free 30.000000 MH2
-	61.4	. diadaa	1 1			-		2					CF Step 2.985000 MHz Auto Mar
	61.4	New Contract	te di citta	and the second	anticipation of the second s	and a count	with marking	nul muximiques	en source state	and the second	Ar-White Mary Ma	PankingPhyle	FreqOffse
	61.4												0 Ha
		t 150 ki	Hz		1					-	Stop 3	0.00 MHz	S
#	Res SG	s BW 1	0 kHz		_	#VB	W 30 KH2	z*			168.3 ms (1001 pts)	
0	RI	t Spectrum	RE	50 9	AC	1	1	SEM6E(D)[T]	Aug Tur	ALIGN AUTO	12:09:20 PM	40ec 15,2018	Frequency
c	en	ter Fre			IF	SHZ NO: Fast - Gain:Low	Trig: Fi #Atten:	ree Run 40 dB	Avg Typ Avg[Hold		12:08:20 PM TRAC TY I Kr2 25.7		Auto Tune
1	o de	B/div	Ref Offs Ref 30	et 7.98 .00 dE	dB 3m	-	-	-	1	101	-30.6	04 dBm	
	20.0		-			-		-	-		-		Center Fred 13.015000000 GH
	10.0	1.0	41							1	1		Start Free 30.000000 MHz
	10.00												a horizon h
į.	20.0		+		-		-		-			-25.00 07	26.00000000 GH
	30.0					-					Lunner	man	CF Step 2.59700000 GHz Auto Mar
	40.0	manner	alson 4		the same	and and and and	-		and the state				FreqOffse
						-	-	1		-			OH
	50.0 60.0								-				011

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EXC F	RL	RF RF req 79.5	50 2 ADC		55	MGE:D§T]	Avg Type	ALIGN AUTIC	12:07:14 P	MDec 15,2018 E 1 2 3 4 5 6	Frequency
				PNO: Wide - IFGain:Low	Trig: Fre #Atten: 2	e Run 2 dB	Avg[Hold:	9/100		282 kHz	Auto Tune
10 g	B/div	Ref Offse Ref 8.5	t 8.58 dB 8 dBm		-					39 dBm	
-1.42	2	-							_		Center Freq 79.500 kHz
-11.4	á	_		-	-		-		-		-
-21.4	4	_			_						Start Freq 9.000 kHz
-31.4	4	_		-	-						Stop Freq
-41.4	4	_		-	-	-					150.000 kHz
-51.4	4	_		_						-55.00 dBm	CF Step 14.100 kHz
-61 4	1			-	_	-					<u>Auto</u> Man
-71.4	a Manya	www.waly	An almant .			-			-		Freq Offset 0 Hz
-81.4	4		As a character of the	a hundry	Melandra	way hower	PAR MANAN	MMM	Multitud	Anterman	
Sta	rt 9.00	kHz		1	L.		. 4 1	100 100	Stop 15	0.00 KHz	·
#Re MSG	es BW	1.0 kHz		#VB	W 3.0 kHz'			Sweep 1	74.0 ms (1001 pts)	
2 M 2 F	RL	um Analyzor RF	50 9 A DC		S.F	NGE:DAT!		ALIGN AUTO	12:07:19 0	4Dec 15,2018	
Cer	nter F	req 15.0	75000 MH	Z PNO: Fast + IFGain:Low	A DOMESTIC AND A DOMESTICANA AND A DOMESTICANA AND A DOMESTIC AND A DOMESTIC AND A DOMESTICANA AND A DOMESTIC AND A DOMESTI	e Run	Avg Type Avg[Hold:	: RMS 8/100	TRAC TYL D	E 123456 PE MUMUUUU T A A A A A A	Frequency
10 d	B/div	Ref Offse Ref 8.5	t 8.58 dB 8 dBm	I Gam.Edw				N	lkr1 7.1	05 MHz 85 dBm	Auto Tune
-1.42	2										Center Freq 15.075000 MHz
-i1.4	á			-							
-21.4	4			1					1		Start Freq 150.000 kHz
-31.4	4										Stop Freq
-41.4	4				_					-45.00 dBm	30.000000 MHz
-61_4	4			-		-			-	and the second	CF Step 2.985000 MHz
-61 4	4	-		-			1			1.14	Auto Man
-71.4	4		•	-					-		Freq Offset 0 Hz
-01.4	a spaning	Manyhanyha	shitted the longer	the a		10000	a for a first sector	6. 6. 6. 7.	Sec. 1		0 112
Sta	rt 150	kHz	-1 ()	watering	rapositivedata	political prover	-hutter and and and and a	adal way a second	Stop 3	0.00 MHz	·
	es BW	10 kHz		#VB	W 30 kHz*		- 8	Sweep 3	68.3 ms (1001 pts)	
EDC F	RL .	um Analyzer RF	50 g AC		SE	PIGE:D\$T]		ALIGN AUTO	12:07:22 PF	40ec 15,2018	Community
Cer	nter F	req 13.0	15000000	GHZ PNO: Fast * IFGain:Low	Trig: Fre #Atten: 4	e Run 0 dB	Avg Type Avg[Hold:	: RMS 4/100	TRAC TYL D	4Dec 15,2018 # 1 2 3 4 5 6 # MMMMMM # A A A A A	Frequency
10 0	B/div	Ref Offse Ref 30.	t 7.98 dB						Kr2 25.6	62 GHz 52 dBm	Auto Tune
0.00							1		1 1 1		Center Freq
20.0		1									13.015000000 GHz
10.0	1.1	8							j		Start Freq 30.000000 MHz
0.00	1.1										
-10.0											Stop Freq 26.000000000 GHz
-20.0	-									-25.00	CF Step
-30.0	1.1.2		1				mo	man	mu	mant	CF Step 2.597000000 GHz Auto Man
-40.0	m	- the	-		and the second states			1.11	1.1	1.1	Freq Offset
-50.0	1							1 - 1			0 Hz
-60.0	-								1.1		

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00	RL	RF 50	2 ADC	1	Trig: Fre	MGE(D§T)	Avg Type Avg[Hold:	ALIGN AUTIC	12:07:54 PM TRAC	10ec 15,2018 = 1 2 3 4 5 6 = My 4 4 4 4 4 T 4 4 4 4 4 4 4	Frequency
10.5	dB/div	Ref Offset 8	3.58 dB dBm	PNO: Wide ↔ IFGain:Low	#Atten: 2	2 dB	Avginoid.		Vikr1 9.8	846 kHz 26 dBm	Auto Tune
-1.4	1										Center Freq 79.500 kHz
-11-				-							Start Freq 9.000 kHz
-31.								1 . 1			Stop Freq 150.000 kHz
61	1									-55.00 dBm	CF Step 14.100 kHz Auto Man
-61 -	- white	MAMAA	A . D	0							Freq Offset 0 Hz
-81 -	4		NAN WANNAN I	whenever	Aronora	n Millian	innamatha	manuman	aren Amphy	ny hanna	
Sta #Re MSG	es BW 1	(Hz .0 kHz			W 3.0 kHz'			Sweep 1		1001 pts)	
1.00	nt Spectru RL Inter Fre	n Analyzer S RF S0 eq 15.07	₩ept 5A [©] <u>A</u> ¤C 5000 MH	Z PNO: Fast at	SE Trig: Fre	NSE:DIT	Avg Type Avg[Hold:	LIGNAUTO : RMS 8/100	12:07:59 PM TRAC TYT	10ec 15,2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
10 :	dB/div	Ref Offset 8	8.58 dB	PNO: Fast IFGain:Low	#Atten: 1	0 dB			lkr1 1.8	81 MHz 56 dBm	Auto Tune
-1.4				-							Center Freq 15.075000 MHz
-01-											Start Freq 150.000 kHz
-31.				-							Stop Freq 30.000000 MHz
-41 -				-						45,00 dBm	CF Step 2.985000 MHz
-61 -	•						1				Auto Man Freq Offset
-01 -	a myddinallel	moundadrassi.	tenning	4. Maurovynegu	antimatic lipitudine state	ranklypergraphics		www.hinanathan	handrand	had you have a series	0 Hz
Sta #Re	art 150 k es BW 1	Hz 0 kHz		#VB	V 30 kHz*	L. C. C. C.	1.	Sweep 3	Stop 3 68.3 ms (1001 pts)	
1 1 1 1	RI	n Andlyzer - S RF - S0 eq 13.01	5000000	GHz	55	MGE:D§T]	Avg Type Avg[Hold:			10ec 15,2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
13		Ref Offset 7		PNO: Fast H IFGain:Low	Trig: Fre #Atten: 4	e Run 0 dB	Avg Hold:			48 GHz 53 dBm	Auto Tune
20.1											Center Freq 13.015000000 GHz
10.0	1.1.1	0 ¹									Start Freq 30.000000 MHz
-10.0				-							Stop Freq
-20.0	-									-25.00 -2	26.00000000 GHz CF Step 2.597000000 GHz
-40.0	-	hanne	mon			and the second	monu	maner	www.	and have a los	Auto Man Freq Offset
-50.0					· · · · · ·		1				0 Hz
-60.0											

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FCC ID: 2ADTE-S80

Report No.: LCS181130005AEG

Cer	L	RF 50	S VDC I	-1	SE	tsE:D≬T]	Avg Type		12:08:27 PM	10ec 15,2018	Frequency
Cer	iter rite	sq 73.500	KIIZ	PNO: Wide	#Atten: 10	Run dB	Avg Type: Avg[Hold: S			E 123456 E MMMMM T A A A A A A	
10 d	B/div	Ref Offset 6 Ref 8.58 d	158 dB					Mki	-63.6	398 kHz 08 dBm	Auto Tune
-1.42		1	1				1	1 1		11	Center Free
1.5	1							1.1		1	79.500 kH
-11.4									J		Start Free 9.000 kH
-31.4							1				
41.4								1.1			Stop Free 150.000 kH
-51.4							1				CF Step
-61.4							2	1.1		-35.00 45m	14,100 kH Auto Mar
-71.4	howall	MAMMAN	MANNA	ANNO DANN	WAYN MANY	mound	mannann	MayAmp	1 May May 1	Muranit	FreqOffse
-61.4	1.00	Y 1 9	1.1	1						y	он
101	1		1.000	1				121			
Star #Re	rt 9.00 H IS BW 1	.0 kHz		#VBV	3.0 kHz*		s		'4.0 ms (0.00 kHz 1001 pts)	
MISIG		- Analasa - S						STATUS	1 DC Cou	pled	
LC R	L L	RF 50 RF 50 RF 50	ODO MH	z	SEP	BERNIT	Avg Type:	RMS	12:00:33 PM TRAC	1Dec 15,2018	Frequency
				PNO: Fast IFGain:Low	#Atten: 10	dB	Avg[Hold: 8			72 MHz	Auto Tun
10 d Log	B/div	Ref Offset 6 Ref 8.58	18m			_			-55.73	39 dBm	and the second s
-1.42		-	-					1		11	Center Free 15.075000 MH
-11.4	1										
-21.4				1							Start Free 150.000 kH
-31.4	_			-							Stop Free
-41.4				_						-45.00 dBm	30.000000 MH
-61.4		A1-							_		CF Ster 2.985000 MH
-61.4	alardian	rubal front being	which which we	ntalischer metale	La let tod. h		A lea rud / Lie		Lat. Lill . Lis. in	a. M. Colab	Auto Mar
-71.4		-		Mad as bits i shirt	ANT MILAN KAL	A MANA MANA	LAULACIANIAN	A Markle Mark	and the the	LAND NULVILLA	Freq Offse
-01.4				-							он
Star	rt 150 k	42	1						Stop 3	0.00 MHz	
	s BW 1			#VBV	V 30 kHz*		s			1001 pts)	
Agilo	nt Spectru	n Analyzor - S	wept 5A								
Cer	nter Fre	eq 13.015		PNO: Fast	Trig: Free	Run	Avg Type: Avg[Hold: 4	RMS 1/100	12:09:36 PM TRAC TYP	10ec 15,2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
		Ref Offset 7 Ref 30.00		IFGain:Low	#Atten: 40	dB			r2 25.7	66 GHz	Auto Tun
10 d Log	B/div	Ref 30.00	dBm	1			1	_	-30.73	57 dBm	Center Free
20.0	-			-							13.015000000 GH
10.0		01	-		-	_				1.00	Start Free
0.00		1		-							30.000000 MH
-10.0		-		-							Stop Free
-20.0	-			-						-25.00 20-	26.000000000 GH
30.0	-			-						munter	CF Ster 2.597000000 GH
-40.0	ware war	man	num	vernandans	mener	ser	man	- Marian - Marian			<u>Auto</u> Mar
-50.0			-	2					_		Freq Offse
-60.0											
									1.11	1.1.1.1.1.1	
Star	1 30 MI	Hz .0 MHz		-	V 3.0 MHz	-	-		Stop 2	6.00 GHz 1001 pts)	

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DO RL	rum Analyzer - Swe RF - 50 2 req 79.500 F	DEC I	1 5	Ave Ave	ALIGNAUTO Type: RMS Hold: 8/100	12:08:50 PM TRAC	10ec 15,2018 E 1 2 3 4 5 6 E My Manufacture T A A A A A A A	Frequency
102	Ref Offset 8.5 Ref 8.58 dE	PNO: W IFGain:	Aido Trig: Fre Low #Atten: 2	eRun Avg 2 dB		Akr1 10.1		Auto Tune
10 dB/div								Center Freq 79.500 kHz
-11.4	-							Start Freq 9.000 kHz
-31.4					_			Stop Freq 150,000 kHz
-41.4	-						-:55.00 dBm	CF Step 14.100 kHz
-61 4 YM A	A A. a.							Auto Man Freq Offset
-71.4	the Mary My My Mary	monormany	my wanter	hand	mannutur	human	MARANNA	0 Hz
#Res BW			#VBW 3.0 kHz		Sweep 1	174.0 ms (0.00 kHz 1001 pts)	·
MSG Agilent Spectr	RF 50 9	ptSA NDC	1 55	NGE(DAT)	ALIGNAUTO	F 12:08:55 PM	10ec 15, 2018	Frequency
Center F	Ref Offset 8.5	PNO: F IFGain:	ast Trig: Fre Low #Atten: 1	eRun Avg 0 dB	Type: RMS Hold: 8/100	Mkr1 7.7	92 MHz	Auto Tune
10 dB/div	Ref Offset 8.5 Ref 8.58 dE	im .				-64.78	88 dBm	Center Freq 15.075000 MHz
-11.4	-				-			Start Freq
-21.4								150.000 kHz Stop Freq
-41.4	_						-45,00 dBm	30.000000 MHz CF Step
-61.4					_		1.1	2.985000 MHz <u>Auto</u> Man
-71.4	-	showing musicipality	Harberradue 1	ter tera				Freq Offset 0 Hz
Start 150 #Res BW	kHz		#VBW 30 kHz*	and of some stand in the second s		1	0.00 MHz	
2 M R I	rum Analyzer - Swe	00		54512-D471		F 🦺 DC Cou	pled	
Center F	Ref Offset 7.9 Ref 30.00 d	PNO: F IFGain:	ast Trig: Fre Low #Atten: 4	e Run Avg 0 dB	Type: RMS Hold: 4/100	12:08:58 PM TRAC JYP 08 14r2 25.8 -30.55		Frequency Auto Tune
20 dB/div	Ref 30.00 d	Bm				-30.59	94 dBm	Center Freq 13.015000000 GHz
10.0	1				-			Start Freq
-10.0								30.000000 MHz Stop Freq
-20.0							-25.00 -2	26.000000000 GHz
-30.0	mun	anima	www.	man	m	m	Man	2.597000000 GHz <u>Auto</u> Man
-40.0								Freq Offset
1211								0 Hz

Agilent Spectrum Analyzer Swe 20 RL RF 90 2 Center Freq 79.500 F	APC 1 SE		12:09:30 PMDec 15, 2018 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 8.58 dB	PNO: Wide Trig: Fre IFGain:Low #Atten: 2	Avg Type: RMS e Run Avg[Hold: 9/100 2 dB	Mkr1 9.141 kHz -64.030 dBm	Auto Tune
-1.42				Center Freq 79.500 kHz
-11.4				Start Freq 9.000 kHz
-31.4				Stop Freq 150.000 kHz
-61_4			-:S5.00 dBm	CF Step 14.100 kHz
-61 4 1 -71 4 MAAMAMAA				Auto Man Freq Offset
101 4 The American March	Mummun Jowen Marine	a publication to the program the second	Mapapapa and M	0 Hz
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 kHz	Sweep	Stop 150.00 kHz 174.0 ms (1001 pts)	i 1
Agient Spectrum Analyzer - Swe WRL RF 50 2 Center Freq 15.0750			12:09:35 PMDec 15, 2018	Frequency
Ref Offset 8.5	PNO: Fast Trig: Fre IFGain:Low #Atten: 1 58 dB	e Run Avg[Hold: 8/100 0 dB	Mkr1 7.792 MHz -64.720 dBm	Auto Tune
10 dB/div Ref 8.58 dB	sm		-04.720 UBIN	Center Freq 15.075000 MHz
-11.4				Start Freq 150.000 kHz
-21.4				Stop Freq
-41,4			-45.00 dBm	30.000000 MHz CF Step
-61.4	•'			2.985000 MHz Auto Man
-71.4	for an			Freq Offset 0 Hz
Start 150 kHz #Res BW 10 kHz	#VBW 30 kHz*	Sweep	Stop 30.00 MHz 368.3 ms (1001 pts)	
MSG Agilent Spectrum Analyzer - Swe XX RL RF 50 g	AC		DC Coupled	Frequency
Center Freq 13.0150 Ref Offset 7.9	IFGain:Low #Atten: 4		12:09:38 PMDec 15, 2018 TRACE 1 2 3 4 5 6 TYPE A & A & A & A DET A & A & A & A MKr2 25.688 GHz	Auto Tune
10 dB/div Ref Offset 7.9 Ref 30.00 d	IBm		-30.391 dBm	Center Freq 13.01500000 GHz
10.0				Start Freq
-10.0				30.000000 MHz Stop Freq
-20.0			-25.00 07	26.000000000 GHz
	the section	manne	and mit	CF Step 2.597000000 GHz Auto Man
-40.0	and the second and the second second			
Contraction of the contract	and a second and a			Freq Offset 0 Hz

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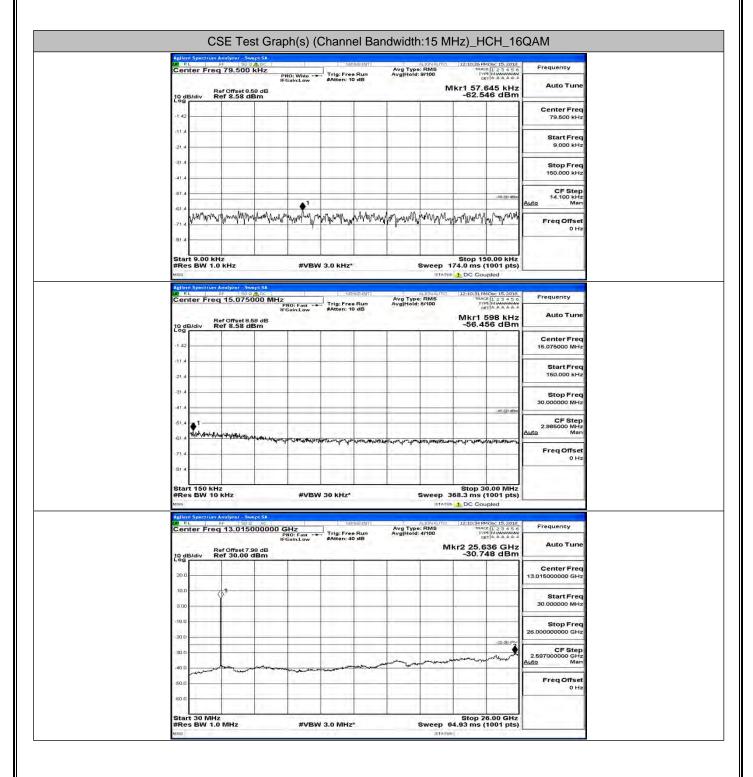
EXC F	RL	RF 9	D D D D D D D D D D D D D D D D D D D		SEM	E:D§T]	Avg Type: Avg[Hold:	RMS	12:10:10 PF TRAC	40ec 15,2018 1 2 3 4 5 6	Frequency
		Ref Offset Ref 8.58	8.58 dB	PNO: Wide ↔ FGain:Low	Trig: Free #Atten: 10	dB	AABIHold:		lkr1 55.	953 kHz 14 dBm	Auto Tune
-1.40	1.000										Center Freq 79.500 kHz
-11.4	i			-			_				Start Freq 9.000 kHz
-21.4											Stop Freq
-41.4											150.000 kHz CF Step
-61 -	Man	MM	MMMM	an maline	how when	Al. Amm	M.M.M.N.N	Mundre	Angua May	antin MA IN	14,100 kHz Auto Man
-71.4	4		(p - p	110		ν τγ , i	ι.w. γ.γ.	u / ş	A 1.88	No the	Freq Offsel 0 Hz
Sta	art 9.00 k es BW 1.	Hz 0 kHz		#VBI	V 3.0 kHz*		5	weep 1	Stop 15 74.0 ms (0.00 kHz 1001 pts)	
Agila	nt Spectrur RL	n Analyzer	Swept SA			Danti		STATUS	DC Cou	pled	
	nter Fre			Z PNO: Fast ↔ IFGain:Low	Trig: Free #Atten: 10	Run dB	Avg Type: Avg[Hold:	8/100	TRAC	96 MHz	Frequency Auto Tune
10 g	B/div	Ref Offset Ref 8.58	8.59 dB dBm	-		-	- 1		-54.9	89 dBm	Center Freq
-1.45				-							15.075000 MHz
-21,4	<u>ن</u> ــــــ										Start Freq 150.000 kHz
-31.4	4										Stop Freq 30.000000 MHz
-51.4	s shawa in	Late at								-45,00 dBm	CF Step 2.985000 MHz Auto Man
-61 -	1	and de adarada	- Anter Contraction of the second second	kinerateratories	May to a fact starts	elational and a second	Hulhalinein	4,144,194,74146	to whether in some	origatyphysis	Freq Offset
-81.4											
Sta #Re	es BW 1	Hz 0 kHz		#VBV	W 30 kHz*		s		Stop 3 68.3 ms (0.00 MHz 1001 pts)	
2.007	RL	RF Si aq 13.01	5000000	GHz PNO: Fast →	Trig: Free		Avg Type: Avg[Hold:	LIGNAUTIO RMS 4/100	12:10:18 PF TRAC TYL	4Dec 15,2018 E 1 2 3 4 5 6 M 4 4 4 4 4 4	Frequency
10.5	B/div	Ref Offset Ref 30.0		PNO: Fast -	#Atten: 40	đB			kr2 25.6	88 GHz 08 dBm	Auto Tune
20.1		-									Center Freq 13.015000000 GHz
10.1	1.1.1	Q1							<u>j </u>		Start Freq 30.000000 MHz
	11 11	-				_		-			Stop Freq
-10.0		-				_				-25.00 0	25.000000000 GHz CF Step 2.597000000 GHz
-10.0	-				-						2.597000000 GHz
-10.0		- Sau har			manun	mann	and a second	المحجور استر	and an an an	mar	<u>Auto</u> Man
-10.0 -20.0 -30.0		and States lynnym	_	ana na na na		Mar and and	in the second	المحجور والمستمير	and the second	Jun Wess	Auto Man Freq Offsel 0 Hz

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2.00	RL	Trum Anal RF	50 1	ADC I	1	1	SENSEIDS	1	Avg Type:	LIGN AUTIO	12:09:10	MDec 15,2018	Frequency
Ce	nter	Freq 7	9.500		PNO: Wide IFGain:Low	Tris	: Free Run ten: 22 dB	á	vg[Hold: 9	9/100		CE 123456 CPE MUMUUUU DET A A A A A A	la la constal
19)	dB/div	Ref	offset 8. 8.58 d	58 dB Bm						M	-64.7	525 kHz 35 dBm	Auto Tune
-1.4	1				-		_						Center Freq 79.500 kHz
-11													Start Freq 9.000 kHz
-31	1				-								Stop Freq
-41	4												150.000 kHz CF Step
-61					-							-55.00 dBm	14.100 kHz Auto Man
-71		Mar May	Annaly	Morrishand	a harring harring har	hunght	pp-tr-mhym	-Andreading to	manne	. ANAAN	1.0.00		Freq Offset 0 Hz
Sta	int 9.0	0 KHZ						, in all he			Stop 1	M/ www.	
Web		V 1.0 KH			#V	BW 3.0	n/14		5		14.0 ms	(1001 pts) upled	L
100	RL	Freq 1	50 9		Z	- Trie	SENSEIN	1	Avg Type: avg Hold: 8	RMS	12:09:15 F	MDec 15,2018 CE 1 2 3 4 5 6 PE MMMMMM ET A A A A A A	Frequency
10	dB/div	Ref C	offset 8. 8.58 d		PNO: Fast IFGain:Low	#At	ten: 10 dB				Akr1 5.4	493 MHz 58 dBm	Auto Tune
-1.4					-							1	Center Freq 15.075000 MHz
-11	á		-]		Start Freq 150.000 kHz
-31	4	-	-		-	-				-			Stop Freq
-41	4					-	-	-	_			-45,00 dBm	30.000000 MHz CF Step
-61	4			1								1.1.6.6	2.985000 MHz Auto Man
-71	4	man	whend										Freq Offset 0 Hz
-61	4 Parte	MALAR NO.	a. Section.	A PERSONAL PROPERTY OF	and and an and	andhindel	miphaliphis	der ramaren	andietype	hunderlywyd	Massessed	University	
Sta #R		0 KHZ V 10 KH				BW 30 H				weep 3	Stop .	(1001 pts)	
1.00	RL	Fred 1	50 9	AC	GHZ	1	SENSEIDS	1	Ava Type:		12:09:18 F	MDec 15,2018 CE 1 2 3 4 5 6 CPE MWWWWW SET A A A A A A	Frequency
18		Ref	Offset 7: 30.00		PNO: Fast IFGain:Low	#At	: Free Run ten: 40 dB	A	Avg Type: vg Hold: 4		kr2 25.0	636 GHz	Auto Tune
20	dB/div	Ref	30.00	dBm	1				1	: - :	-50.7		Center Freq 13.015000000 GHz
10.		01	-		-	_	_	_			-		Start Freq
0.0	o —	1											30.000000 MHz
-10.													Stop Freq 26.000000000 GHz
-20	-											-25.00	CF Step 2.597000000 GHz
-30.	0	_	the work		and a second of	winner	-		dan war	ي. مريد مواجد مريد	and the second		Auto Man
-40	www			1									Freq Offset
10.1	0							1					0 Hz

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Agilent Spectrum Andyzer - Swept SA 202 RL RF 90 940 PC Center Freq 79.500 kHz	GENGE DAT	ALIGN AUTIO Avg Type: RMS Avg[Hold: 9/100	12:09:53 PM Dec 15, 2018 TRACE 1 2 3 4 5 6 TYPE M MANAGE	Frequency
Ref Offset 8.58 dB	IO: Wide		kr1 9.846 kHz -59.237 dBm	Auto Tune
10 dB/div Ref 8.58 dBm				Center Freq 79.500 kHz
-11.4				Start Freq 9.000 kHz
-31.4		_		Stop Freq 150.000 kHz
-41.4			-555.00 dBm	CF Step 14.100 kHz
51 4 Aprov WWWWWWWWWWWWWWW	Mart May Mun Manager Manager			Auto Man Freq Offset
014	and a address on Myanal Carely and	www.www.www.wywy	approximation and the	0 Hz
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 kHz*	Sweep 174	Stop 150.00 kHz 1.0 ms (1001 pts) DC Coupled	
Aglient Spectrum Analyzor - Swept SA W RL RF 50 2 AD⊂ Center Freq 15.075000 MHz	SENSE:MT	Augnauto Avg Type: RMS Avg[Hold: 8/100	12:09:58 PMDec 15,2018 TRACE 1 2 3 4 5 6 TYPE MYMMMMM	Frequency
Ref Offset 8.59 dB 10 dB/div Ref 8.58 dBm	NO: Fast	and a second	r1 7.792 MHz -65.500 dBm	Auto Tune
-1.42				Center Freq 15.075000 MHz
-11.4				Start Freq 150.000 kHz
-31.4				Stop Freq 30.000000 MHz
-61.4		·	45.00 dBm	CF Step 2.985000 MHz
-61 4				Auto Man Freq Offset
101 a unplother that a dupper in manhage land	and and the state of the state	and will be the stand at the st	Manitaryultaryangitarya	0 Hz
Start 150 kHz #Res BW 10 kHz	#VBW 30 kHz*	Sweep 368	Stop 30.00 MHz 3.3 ms (1001 pts) DC Coupled	
Aglent Spectrum Analyzer Swept SA Werk PF S0 ≌ AC Center Freq 13.015000000 G	SEPASE:041		12:10:02 PMDec 15, 2018 TRACE 1 2 3 4 5 6 Type MWWWW DET A A A A A A	Frequency
Ref Offset 7.98 dB	NO: Fast Trig: Free Run Sain:Low #Atten: 40 dB		2 25.636 GHz -30.720 dBm	Auto Tune
20.0 Brdiv Ref 30.00 dBm				Center Freq 13.015000000 GHz
10.0 0.00				Start Freq 30.000000 MHz
-10.0				Stop Freq 26.00000000 GHz
-20.0			-25.00	CF Step 2.59700000 GHz
40.0			man	Freg Offset
-50.0 -60.0				0 Hz



LK RL	RF RF r Freq 79.5	00 kHz	1	SEM	E:DyT]	Avg Type Avg[Hold:	ALIGN AUTIC	12:10:47 PF TRAC	MDec 15,2018 CE 1 2 3 4 5 6 PE MANANAN ET A A A A A A	Frequency
	Patoma		PNO: Wide FGain:Low	#Atten: 22	dB	OARCONG:		Mkr1 9.	141 kHz	Auto Tune
10 dB/d	iv Ref 8.5	s dBm						-03.9	34 dBm	Center Freq
-1.42							-			79.500 kHz
-11.4										Start Freq 9.000 kHz
-31.4										Stop Freq 150.000 kHz
-41.4									-35.00 dBm	CF Step 14.100 kHz
-61 4 1	hall									<u>Auto</u> Man
-71.4	AN WARA	Annanta	War Manua	Manna	hard	with want .	A Mary A	18. 54 1.	A	Freq Offsel 0 Hz
Start 9	.00 kHz	4.1.4	1		. An Dall a line.	M. Wanas A	AN along M.	Stop 15	0.00 KHZ	5 F
#Res E	3W 1.0 kHz		#VBW	3.0 kHz*			sweep 1	74.0 ms ((1001 pts)	
RE RL	RF r Freq 15.0	50 0 A DC	1	Local Local	E:DIT1	Avg Type Avg[Hold:	ALIGN AUTO	12:10:52 PM	MDec 15,2018 CE 1 2 3 4 5 6	Frequency
	Ref Offs	1	PNO: Fast FGain:Low	Trig: Free #Atten: 10	Run dB	Avg[Hold:		1kr1 4.7	123456 123456 1444444 17 MHz 56 dBm	Auto Tune
10 dB/d	iv itel 8.5									Center Freq 15.075000 MHz
-11.4								-		
-21.4						_				Start Freq 150.000 kHz
-31.4						-			1.11	Stop Freq 30.000000 MHz
-41.4									45,00 dBm	CF Step
-61.4		1							1.14	2.985000 MHz Auto Man
-71.4				1	1			-		Freq Offsel 0 Hz
-61 4 4	And a	antif Weather High	happinghyprome	how have the second	and a start of all	applyingthe	-	-tombrook	humble	
Start 1 #Res E	50 kHz SW 10 kHz			30 kHz*			Sweep 3	Stop 3	0.00 MHz (1001 pts)	
Agilant S	ectrum Analyzor RF	SO D AC		SEN	E:D≬T]			12:10:55 P	MDec 15, 2018	Francisco
Cente	r Freq 13.0		GHZ PNO: Fast FGain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg[Hold:	4/100	TRAC	CE 123456 PE MANANAN ET A A A A A A	Frequency Auto Tune
10 dB/d	iv Ref Offse	t 7.98 dB 00 dBm	-				MI	-30.4	84 GHz 30 dBm	
20.0						_		-		Center Freq 13.015000000 GHz
10.0	1		-			1				Start Freq
100.00										30.000000 MH2
0.00										Stop Freq 26.000000000 GHz
0.00								1	-25.00 0	
-10.0								. AND .	•	CF Step 2.597000000 GHz
-10.0	~~~~		mon				mana		m	<u>Auto</u> Man
-10.0	~~~~		murren			- Andrewski - A Andrewski - Andrewski - Andr Andrewski - Andrewski - Andr	maner		•	CF Step 2.597000000 GHz <u>Auto</u> Man Freq Offset 0 Hz

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00	RL	RF 50	ADC T		SE	MGE:DØT]	Ave Tue	RMS	12:11:27 P	4Dec 15,2018	Frequency
Ce	nter Fre	q 79.500		PNO: Wide ++ FGain:Low	#Atten: 2	e Run 2 dB	Avg Type: Avg[Hold:			E 123456 E MMMMM T A A A A A A	- Antonio -
10	dB/div	Ref Offset 8 Ref 8.58 d	58 dB Bm					1	4 vikr1 9.0 -63.2	27 dBm	Auto Tune
-1.4		-					1		\sim	1773	Center Freq 79.500 kHz
-11	4			-	_			1			
-21	á							_			Start Freq 9.000 kHz
-31	4							-			Stop Freq 150.000 kHz
-41	4		1.2		1				1		CF Step
-61	4 1									-SS.00 dBm	14.100 kHz Auto Man
-71	a May Amany	Monthala		-			-			1	Freq Offset
-81	4	And	and and all all	WWWW	Yngrannyw	physeles a	www.hall	how MAN	www.Wally	Whywyar	
Sta #R	es BW 1	HZ			N 3.0 kHz*				Stop 15	0.00 kHz 1001 pts)	
MSG									1 DC Cou		
00	RL	RF 501			58	NISE: DAT]	Avg Type: Avg[Hold:	RMS	12:11:32 PF TRAC	4Dec 15,2018 E 1 2 3 4 5 6	Frequency
		Ref Offset 8	58 dB	PNO: Fast FGain:Low	#Atten: 1	e Run 0 dB	Avg Hold:		1kr1 4.7	17 MHz	Auto Tune
18,	dB/div	Ref 8.58 d	Bm	1	1	-		-	-69.2	12 dBm	Center Freq
-1.4	2							1 1			15.075000 MHz
-11	4										Start Freq 150.000 kHz
-31	4						1				Stop Freq
-41	4									-45.00 dBm	30.000000 MHz
-61	4					-		-	-		CF Step 2.985000 MHz
-61	4	•1		-				-			Auto Man Freq Offset
-71			w. t. It. is a sur	Lann on shee		1				1	0 Hz
-01	" antopyout	Pandana ana ana ana ana ana ana ana ana a	haddel feransester	Hacher's All the All	addisonal inpartients	attention of the second	Halkingsomme	had a manual that	producernan	emphasiana	
Sta #R	es BW 1	Hz 0 kHz		#VB	W 30 kHz*		s		Stop 3 68.3 ms (0.00 MHz 1001 pts)	
Agit	ant Spectrur	n Analyzor - Sv	mpt SA								
	nter Fre	q 13.015		GHz PNO: Fast	Trig: Fre-	e Run 0 dB	Avg Type: Avg[Hold:	RMS 4/100	12:11:35 PF TRAC TYL DI	4Dec 15,2018 E 1 2 3 4 5 6 M A A A A A	Frequency
10	dB/div	Ref Offset 7 Ref 30.00	98 dB	Gamerow	e antes a				kr2 26.0	00 GHz 12 dBm	Auto Tune
20		-	1	-			1				Center Freq 13.015000000 GHz
10	0	1	-	-		-				1.1.1	
0.0	0	Ϋ́		-	-						Start Freq 30.000000 MHz
-10	o —	-					_				Stop Freq
-20	0							_		-25.00 -2	26.000000000 GHz
-30	1		1					1 May amount	man	when the	CF Step 2.597000000 GHz Auto Man
-40	m	The		- manual market			Harter	1 - 1		1.1	Freq Offset
-50.				-			1				0 Hz
-60										6.00 GHz	
-	rt 30 MH										

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Report No.: LCS181130005AEG

100	RL		Analyzor RF 79.5	50 2 AL	I D		Trin	SEMSE DIT	1	Avg Type: Avg[Hold: 1	RMS	12:12:07 TR.	MDec 15,2018 CE 1 2 3 4 5 6 CPE M 444444 DET A A A A A A	Frequency
					P II	NO: Wide Gain:Low	#Atte	n: 10 dB		- Bir Joid; 1		1kr1 76	680 kHz	
10 0	dB/di	v R	ef Offs tef 8.5	8 dBn	1	1		1		- 1		-63.1	335 dBm	
-1.4	12	_	-	-	_	-	-		-	_		-		Center Fre 79.500 kH
÷03			-	-	-		-			_				Start Fre
-21.5	4							-				-		9.000 kH
-31-	4	-				1								Stop Free 150.000 kH
-41,-	100										1 - 1	1		CF Ste
-61	-		1					A1					-38.00 dBra	14,100 kH Auto Ma
-71.3	A	winter	NAM	MANAM	mm	hand	Mulamut	Munsh	anna	Marian	1 minutes	hammen	maria	Freq Offse
-81 -	1.1	and the	1						1	ա. ձե	11-1	1		он
	L									-	1 - 1			1
#Re	es B	.00 kł	hz kHz			#VE	3W 3.0 K	Hz*		s		74.0 ms	50.00 kHz (1001 pts)	
Agile	ent Sp	ectrum	Analyzor	Swept	SA						SIA(D			
Ce	nter	Free	RF q 15.0	50 0 A	0 MHz	PNO: Fast	Trig	SEMSE:DIT	1	Avg Type: Avg[Hold: I	RMS 8/100	12:12:12 TR	MDec 15,2018 VCE 1 2 3 4 5 6 VPE MMMMMMM DET A A A A A A	Frequency
10 0	dB/di	R	ef Offs tef 8.5	t 8.58 8 dBn		PNO: Fast Gain:Low	#Atte	n: 10 dB				Mkr1	628 kHz 64 dBm	
-1.4	1		-								÷ . :	1	11	Center Fre
-112	1.1													15.075000 MH
-21.3						-								Start Fre 150.000 kH
-31.	1.1													Stop Fre
-41.	4												-45.00 dBm	30.000000 MH
-61	4	1												CF Stel 2.985000 MH
-61 -	4	Permitive	Shannaa	+Antoine th	NCTOR LINE	Phylippin	and the main	WW WITH WHEN TH	Understand and the second	in the state	للار الجامعة مع الم	hules Jihaut	a and a start of the start of t	<u>Auto</u> Ma
-71.5		_	-		1.10								a strate	Freq Offse 0 H
-01 -	4		-	-	_	-	-			-				
Sta	art 1	50 KH	z	1	-							Stop	30.00 MHz	
#Re MSG	es B	W 10	KHZ			#VE	3W 30 K	Hz*		5		168.3 ms	(1001 pts) aupled	
1.00	RL	1	Analyzor RF	50 0	AC		1	SEMISERNI	1	Aug 7:0		12:12:16	MDec 15,2018	Frequency
Ce	nter	Free	13.0	1500	0000	SHZ PNO: Fast Gain:Low	Trig	Free Run en: 40 dB		Avg Type: Avg[Hold: -			VCE 123456 PPE MWWWWWW DET A A A A A A	1100
10 0	dB/di	v R	ef Offs lef 30.	t 7.98 00 dB	m						M	kr2 25. -31.(662 GHz	Auto Turi
20.1	1		-			-								Center Free 13.015000000 GH
10.1	5 E		1							-	1			
0.0			Ϋ́					_			1	1		Start Fre 30.000000 MH
-10.0	0	-		_			_							Stop Fre
-20.0	0										_			26.000000000 GH
-30.0	0					-				_		1	-25.00 000	CF Ster 2.597000000 GH
	0		han		the sparts	moner	a	men		m	man	- monter and	and the grand	<u>Auto</u> Ma
-40.0	100	-			_	1	-	-		_	-	-		Freq Offse
-40.0	0													
1.0	1.1	_		-	_	-	-		-					

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	CH_16		- 11 1/761 100-1			.p(e) (e		ectrum Analyzer	Agilent Sp
Frequency	40ec 15,2018 E 1 2 3 4 5 6 M 4 4 4 4 4 4	12:11:07 PF TRAC	e: RMS d: 8/100	Avg Type Avg[Hold	Trig: Free Run	PNO: Wide	00 kHz	Freq 79.5	Center
Auto Tune	000 kHz	Mkr1 9.0		distance.	#Atten: 22 dB	FGain:Low		Batoma	100
	27 dBm	-62.7		_			8 dBm	v Ref 8.5	10 dB/di
Center Freq 79.500 kHz			-						-1.42
		-	1.1.1			-			-11.4
Start Freq 9.000 kHz		1	1						-21.4
									-31.4
Stop Freq 150.000 kHz									
CF Step		1							-41.4
14.100 kHz Auto Man	-55.00 dBm	-	-						-61_4
Freq Offset	1 1 1	1		1				A Man	-61 A
0 Hz	1	1		1	A	An Am a	Murra Man	a human he	-71.4
1	MANN	Marthanth	Hard Marine	www.when	mppplan	A MARINA	1.4		-61.4
			Sweep 1		0 642*	#VBW		00 kHz W 1.0 kHz	
		DC Cou				#1000		1.0 KH2	wee -
	4Dec 15, 2018	12:11:12 P	ALIGN AUTO		SENSEIDIT		50 2 ADC	ectrum Analyzor RF	DO RL
Frequency	4Dec 15,2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	TRAC TYL	e: RMS 1: 8/100	Avg Type Avg[Hold	Trig: Free Run #Atten: 10 dB	PNO: Fast FGain:Low	75000 MH	Freq 15.0	Center
Auto Tune	59 MHz 44 dBm	Akr1 2.3			and we want	r Gam. Low	t 8.59 dB 8 dBm	Ref Offse	
Center Freq		-70.4	1		- 1	1		v Ref 8.5	10 dB/di
15.075000 MHz		1		-					-1.42
Start Freq				-					-11.4
150.000 kHz				-					-21.4
Stop Freq			-	-	_	-		_	-31.4
30.000000 MHz	-45.00 dBm		-	-					-41.4
CF Step 2.985000 MHz				_					-61.4
Auto Man				1				2.1	-61.4
Freq Offset	1 - 2							•1	-71.4
0 Hz	1.1		1		here I	and an appropriate	manahushilanpi	may all interpret	-01.4 MAH
	alminiation	the international states	public despect	and the second sec	talayaria for for for space				110
	0.00 MHz 1001 pts)	Stop 3 68.3 ms (Sweep 3			#VBW		SO KHZ W 10 KHZ	Start 1
	pled	1 DC Cou	STATUS		_	_			Weid
Frequency	4Dec 15,2018 E 1 2 3 4 5 6 MMMMMMM T A A A A A A	12:11:15 P# TRAC	ALIGN AUTO	Avg Type	SEMSE(DIT)	GHz	50.01	RF Freq 13.0	RE RL
Auto Tune				Avg[Hold	Trig: Free Run #Atten: 40 dB				
	70 GHz 42 dBm	-30.7	IVI			10 million - 11	00 dBm	v Ref Offse	10 dB/di
Center Freq 13.015000000 GHz		1.1						2.7	20.0
13.0 1900000 342		1	1.1			-			10.0
Start Freq 30.000000 MHz		1						01	
50.000000 With 12		1 1							0.00
Stop Freq 26.00000000 GHz									-10.0
	-25.00								-20.0
CF Step 2.597000000 GHz Auto Man	any month	mon							-30.0
					Mark Contraction of the second		man	american	-40.0
				-					-50.0
Freq Offset						1			
				-					-60.0
Freq Offset	6.00 GHz	Stop 3					4	0 MHz	-60.0

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LKI F	RL	rum Analy RF	50 9	ADC T	-1-	5	EH6E:D≬T]		ALIGN AUTO	12:11:49 F	MDec 15, 2018	Frequency
Cer	nter F	req 79	9.500		PNO: Wide -	Trig: Fre	e Run 28 dB	Avg Typ Avg[Hold			CE 123456 CPE MUMANAN DET A A A A A A	
10 0	B/div	Ref O	ffset 8.6 8.58 dl	ie de Sm					N	lkr1 12. -58.7	243 kHz 99 dBm	Auto Tune
1.14				1							1000	Center Freq
-1/42	2			-					1	1.1	1	79.500 kHz
201.4	4				-	-						Start Freq
-21.4	á				-	-						9.000 kHz
-31.4	4		-		-			-				Stop Freq
-41.4	4								-		-	150.000 kHz
-61.4	·		_								-55.00 dBm	CF Step 14.100 kHz
-61 4	Why	MAN			-			-				<u>Auto</u> Man
-71.4	4		manpr	MANA	* War west	Norman	Mul A	MADE AL	n ant		1. 1.1	Freq Offsel 0 Hz
-01.4	4	-	-			Norman	, MARANA A	MAN, AND MAN	WWWW Y	mont	440mm	
Sta	rt 9.00		_		1				1.1		50.00 kHz	
#Re	es BW	1.0 KH	Iz		#VB	W 3.0 kHz	*			74.0 ms	(1001 pts)	
Agile		rum Analy	nzor Sw	pt SA		_						
Cer	nter F	RF reg 15	5.0750	000 MH	z	1.	ENGE DATI	Avg Typ Avg[Hold	e: RMS	12:11:54 F	MDec 15,2018 CE 1 2 3 4 5 6 CPE MUMUMUM DET A A A A A A	Frequency
					PNO: Fast - IFGain:Low	#Atten:	10 dB	Constant of the		Akr1 4.7	717 MHz	Auto Tune
10 c	B/div	Ref 0	ffset 8.6 8.58 dl	a dB 3m		-	-			-70.2	63 dBm	
-1.42	2		_						1			Center Fred 15.075000 MHz
-11.4	a		_		-					-		
-21.4			-						1	J		Start Freq 150.000 kHz
-31.4												
											1	Stop Freq 30.000000 MHz
-41.4	-										-45.00 dBm	CF Step
-51.4	1.1		-						1		1.1.1	2.985000 MHz Auto Man
-61 4	4		•1	1.					1.1			Freq Offsel
-71.4	4	1	1.		1.5.55	1	1					0 Hz
-01.4	a whereast the	w can all	-w-mp-da	Now Years	with the first of the second states of the second s	nd nin Alintan	New Hartwhe	-	Agriculture	-	Pal-antoniantor	
Sta	1 150	KHZ						1.2.010.20		Stop 3	30.00 IVIHZ	
#Re MSG	es Bw	10 KH:	z		#VB	W 30 kHz'	· · · · · · · · · · · · · · · · · · ·			08.3 ms	(1001 pts) upled	
Agile	nt Spect	rum Analy RF	7201 - SW	AC		5	PARENTI		ALIGNAUTO	12:11:58	MDec 15, 2018	
Cer	nter F	reg 13	3.0150	00000	GHZ PNO: Fast - IFGain:Low	Trig: Fre	e Run	Avg Typ Avg[Hold	e: RMS 1: 4/100	TRA	CE 123456 CPE MUMMUM DET A A A A A A	Frequency
24.5		Ref O	ffset 7.5	8 dB	If Gama ow	Section .			M	kr2 26.0	000 GHz 99 dBm	Auto Tune
Log	B/div	Ref 3	30.00 0	IBm	1		1		1	-30.8		Center Freq
20.0	0.				-			-		-		13.015000000 GHz
10.0		1	-		-	-		-	-	-		Start Fred
0.00	o	-Y-	_			_						30.000000 MHz
-10.0	-	-	-		-	-		-	-			Stop Freq
-20.0											-	26.00000000 GHz
-30.0											-25.00 000	CF Step
-40.0		-	m	man			man	man	manun	m	min	2.597000000 GHz Auto Man
-50.0	man		and		- man	man and a		11	1.1			Freq Offset
-50.0									1			0 Hz
								1				
-60.0				1						1.1		

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Report No.: LCS181130005AEG

1.00	RL		Analyzer RF 79.5	50 2 AL	0C [1	i t	SEMSE:DVT	1	ava Type		12:12:23	PMDec 15, 2018	Frequency
Ce	riter	Free	1 / 9.5	UU KF	P II	NO: Wide Gain:Low	Trig	Free Run n: 10 dB		Avg Type: vg[Hold:			PMDec 15,2018 ACE 1 2 3 4 5 6 YPE MANANAN DET A A A A A A	
10	dB/di	R	ef Offse ef 8.5	t 8,58 d B dBn	dB		1.1			-	N	1kr1 39 -62.1	.456 kHz 702 dBm	Auto Tune
-1.4														Center Freq 79.500 kHz
ŵ	4					-	_		_			-		Start Freq
-21	4					-	-	-	-			-	-	9.000 kHz
-31						-								Stop Freq 150.000 kHz
-41											1	1		CF Step
-61	4				1	1	-	-					-35.00 dBin	14.100 kHz Auto Man
-71	AW	where	NWW	"wyron"	MyAny	ren Minis	Maryan	whether .	Mynn	wanth	entryly	an parting	MMA MAMA	Freq Offset 0 Hz
-01	4										-			
Sta #R	art 9. tes B	.00 kH	Hz D kHz			#VI	3W 3.0 k	Hz*		5	Sweep 1		50.00 kHz (1001 pts)	
MSG	-		-	Swept						_	STATU	DC Ce	oupled	
100	RL	1	RF q 15.0	50 2 1		PNO: East	Trig	SEMSE:DAT	1	Avg Type: vg[Hold:	RMS	12:12:28 TR. J	PMDec 15,2018 ACE 1 2 3 4 5 6 YPE MWWWWW DET A A A A A A	Frequency
10	dB/di	R	ef Offse tef 8.5	t 8.58 8 dBn	dB	FGain:Low	#Atte	m: 10 dB				/kr1 1.	732 MHz 259 dBm	Auto Tune
-1.4	1													Center Freq 15.075000 MHz
ŵ	4					-	_		-					Start Freq
-21	4 —	-	-		-				-					150.000 kHz
-31	Ä	1			1	-					1-1			Stop Freq 30.000000 MHz
-41										_			-45.00 dBm	CF Step
-61			-	hardhar	LA.M.		an an alta A	NL 100-101 -01			11 M A.	Nr. 50 all	#	2.985000 MHz Auto Man
-71	4				un "Antha	and the state of		Di Mandayan Adad .	an a w	L M L M L M L M L M L M L M L M L M L M	nd all of the	ALL BLAR BUILD	a slada, shu shadh	Freq Offset 0 Hz
-81	4		-	-	-	-		-	-	-				
Sta #R	art 1	50 kH	z kHz	-1-		#VE	3W 30 KI	Hz*		5	Sweep 3	Stop	30.00 MHz (1001 pts)	
MSG					_				_			DC C		
2 10 2	RL	-	Analyzer RF q 13.0	50.0	AC 0000 0	GHz	Tria	SEMSE:Dy1	1	Avg Type: vg[Hold:	LIGN AUTO RMS 4/100	12:12:31 TR.	PMDec 15,2018 ACE 1 2 3 4 5 6 YPE MYAMAAAAA DET A A A A A A A	Frequency
10	dB/di	R	ef Offse tef 30.	t 7.98		PNO: Fast FGain:Low	#Atte	n: 40 dB				kr2 25.	818 GHz 954 dBm	
20														Center Freq
10	5 F		1											13.015000000 GHz
0.0		11	Ĭ—			-								Start Freq 30.000000 MHz
	.v	-	-		-	-		-	-					Stop Freq
-10	0	_				-			_				-25.00 0	26.000000000 GHz
-10	-		-		-						man	man	- Unsw	CF Step 2.597000000 GHz Auto Man
-20					A			Marchine .	and a	~	1	-	1	
-20 -30 -40			have	-	the second s	man	mar			-				Freq Offset
-20			have		45450	- marine	mar							Freq Offset 0 Hz

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