# Appendix B: Test Data for E-UTRA Band 4

# Product Name: LTE GSM/WCDMA Smartphone **Trade Mark: DOOGEE** Test Model: S70

**Environmental Conditions** 

Temperature:	23.6
Relative Humidity:	52.1
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

## **B.1 Conducted Output Power**

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)								
Madulation	Modulation Channel		figuration	Average Power [dBm]	Average Power [dBm]	Verdiet			
wodulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	21.77	20.93	PASS			
		1	3	21.91	20.90	PASS			
		1	5	21.72	20.60	PASS			
	LCH	3	0	21.36	20.53	PASS			
		3	2	21.48	20.54	PASS			
		3	3	21.42	20.51	PASS			
		6	0	20.44	19.36	PASS			
		1	0	21.35	20.95	PASS			
		1	3	21.67	21.16	PASS			
QPSK /		1	5	21.49	20.97	PASS			
16QAM	MCH	3	0	21.59	20.38	PASS			
IUQAM		3	2	21.59	20.49	PASS			
		3	3	21.43	20.43	PASS			
		6	0	20.48	19.36	PASS			
		1	0	21.32	20.53	PASS			
		1	3	21.42	20.58	PASS			
		1	5	21.18	20.32	PASS			
	HCH	3	0	21.32	20.44	PASS			
		3	2	21.16	20.30	PASS			
		3	3	21.17	20.14	PASS			
		6	0	20.30	19.38	PASS			

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	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Modulation Channel		figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
wouldtion	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	21.62	20.63	PASS			
		1	7	21.53	20.70	PASS			
		1	14	21.45	20.52	PASS			
	LCH	8	0	20.16	19.49	PASS			
		8	4	20.25	19.45	PASS			
		8	7	20.29	19.56	PASS			
		15	0	20.27	19.34	PASS			
		1	0	21.32	20.63	PASS			
		1	7	21.60	21.05	PASS			
		1	14	21.35	20.68	PASS			
QPSK / 16QAM	MCH	8	0	20.41	19.54	PASS			
IOQAIN		8	4	20.46	19.60	PASS			
		8	7	20.45	19.52	PASS			
		15	0	20.43	19.49	PASS			
		1	0	21.33	20.64	PASS			
		1	7	21.58	21.03	PASS			
		1	14	21.29	20.72	PASS			
	HCH	8	0	20.35	19.36	PASS			
		8	4	20.39	19.37	PASS			
		8	7	20.36	19.29	PASS			
		15	0	20.30	19.33	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat			
wooulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	21.59	20.61	PASS			
		1	12	21.73	20.90	PASS			
		1	24	21.50	20.61	PASS			
	LCH	12	0	20.16	19.41	PASS			
		12	6	20.26	19.49	PASS			
		12	13	20.17	19.45	PASS			
		25	0	20.27	19.26	PASS			
		1	0	21.23	20.46	PASS			
	МСН	1	12	21.49	20.75	PASS			
		1	24	21.00	20.44	PASS			
QPSK / 16QAM		12	0	20.35	19.62	PASS			
IOQAM		12	6	20.51	19.74	PASS			
		12	13	20.30	19.71	PASS			
		25	0	20.54	19.59	PASS			
		1	0	21.18	20.08	PASS			
		1	12	21.41	20.54	PASS			
		1	24	21.25	20.34	PASS			
	НСН	12	0	20.33	19.33	PASS			
		12	6	20.40	19.49	PASS			
		12	13	20.32	19.36	PASS			
		25	0	20.41	19.45	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat			
wodulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	21.68	20.64	PASS			
		1	24	21.87	20.89	PASS			
		1	49	21.68	20.51	PASS			
	LCH	25	0	20.30	19.30	PASS			
		25	12	20.34	19.28	PASS			
		25	25	20.35	19.30	PASS			
		50	0	20.27	19.28	PASS			
		1	0	21.23	20.35	PASS			
		1	24	21.43	20.57	PASS			
		1	49	20.94	20.25	PASS			
QPSK / 16QAM	MCH	25	0	20.48	19.50	PASS			
TOQAIM		25	12	20.33	19.38	PASS			
		25	25	20.31	19.51	PASS			
		50	0	20.50	19.46	PASS			
		1	0	21.16	20.44	PASS			
		1	24	21.33	20.58	PASS			
		1	49	21.22	20.45	PASS			
	НСН	25	0	20.36	19.50	PASS			
		25	12	20.40	19.41	PASS			
		25	25	20.37	19.40	PASS			
		50	0	20.38	19.42	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Modulation	Modulation Channel		figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
wodulation	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	21.63	20.53	PASS			
		1	37	21.91	20.84	PASS			
		1	74	21.60	20.50	PASS			
	LCH	37	0	20.31	19.26	PASS			
		37	18	20.41	19.29	PASS			
		37	38	20.25	19.26	PASS			
		75	0	20.27	19.27	PASS			
		1	0	21.03	20.34	PASS			
		1	37	21.30	20.61	PASS			
QPSK /		1	74	20.82	20.17	PASS			
16QAM	MCH	37	0	20.34	19.41	PASS			
TOQAIM		37	18	20.19	19.44	PASS			
		37	38	20.37	19.32	PASS			
		75	0	20.46	19.52	PASS			
		1	0	21.19	20.48	PASS			
		1	37	21.53	20.55	PASS			
		1	74	21.12	20.53	PASS			
	HCH	37	0	20.45	19.42	PASS			
		37	18	20.42	19.43	PASS			
		37	38	20.31	19.36	PASS			
		75	0	20.40	19.41	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Modulation	Modulation Channel		figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
	Ondrinor	Size	Offset	QPSK	16QAM	Vordiot			
		1	0	21.63	20.55	PASS			
		1	49	21.98	20.71	PASS			
		1	99	21.35	20.39	PASS			
	LCH	50	0	20.20	19.19	PASS			
		50	25	20.24	19.26	PASS			
		50	50	20.34	19.34	PASS			
		100	0	20.22	19.22	PASS			
		1	0	21.03	20.22	PASS			
		1	49	21.31	20.55	PASS			
		1	99	20.86	20.02	PASS			
QPSK / 16QAM	MCH	50	0	20.26	19.33	PASS			
IOQAIN		50	25	20.23	19.37	PASS			
		50	50	20.22	19.48	PASS			
		100	0	20.49	19.32	PASS			
		1	0	21.24	20.35	PASS			
		1	49	21.62	20.76	PASS			
		1	99	20.85	20.28	PASS			
	HCH	50	0	20.51	19.52	PASS			
		50	25	20.46	19.52	PASS			
		50	50	20.30	19.33	PASS			
		100	0	20.41	19.41	PASS			

### **B.2 Peak-to-Average Ratio**

	Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
MODULATION	Channel	[dB]	[dB]	Verdict				
	LCH	5.87	<13	PASS				
QPSK	MCH	5.79	<13	PASS				
	НСН	5.72	<13	PASS				
	LCH	6.79	<13	PASS				
16QAM	MCH	6.72	<13	PASS				
	НСН	6.57	<13	PASS				

	Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
wouldton	Ghannei	[dB]	[dB]	Verdict				
	LCH	5.87	<13	PASS				
QPSK	MCH	5.76	<13	PASS				
	НСН	5.76	<13	PASS				
	LCH	6.88	<13	PASS				
16QAM	MCH	6.74	<13	PASS				
	НСН	6.49	<13	PASS				

	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
MODULATION	Channel	[dB]	[dB]	Verdict				
	LCH	5.93	<13	PASS				
QPSK	MCH	5.79	<13	PASS				
	НСН	5.71	<13	PASS				
	LCH	6.77	<13	PASS				
16QAM	MCH	6.63	<13	PASS				
	HCH	6.45	<13	PASS				

	Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Channel	[dB]	[dB]	Verdict				
	LCH	5.94	<13	PASS				
QPSK	MCH	5.77	<13	PASS				
	НСН	5.71	<13	PASS				
	LCH	6.61	<13	PASS				
16QAM	MCH	6.52	<13	PASS				
	НСН	6.47	<13	PASS				

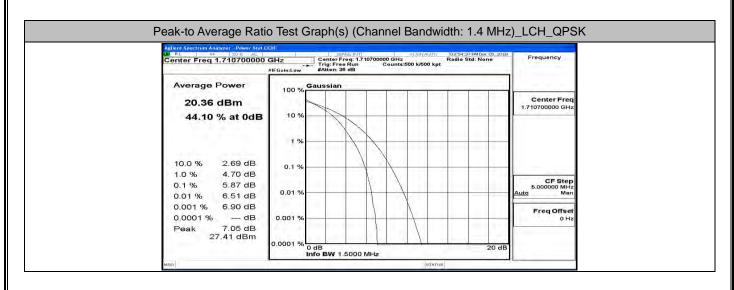
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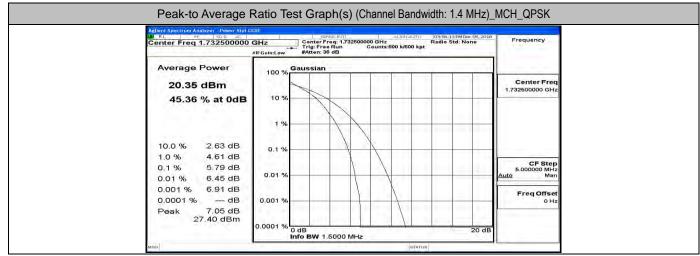
Report No.: LCS181130007AEG

	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Woddiation	Channel	[dB]	[dB]	Verdict				
	LCH	5.07	<13	PASS				
QPSK	MCH	5	<13	PASS				
	НСН	4.97	<13	PASS				
	LCH	6.44	<13	PASS				
16QAM	MCH	6.34	<13	PASS				
	НСН	6.32	<13	PASS				

	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 20 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
wouldton	Channel	[dB]	[dB]	Verdict
	LCH	5.77	<13	PASS
QPSK	MCH	5.72	<13	PASS
	НСН	5.73	<13	PASS
	LCH	6.85	<13	PASS
16QAM	MCH	6.8	<13	PASS
	НСН	6.74	<13	PASS

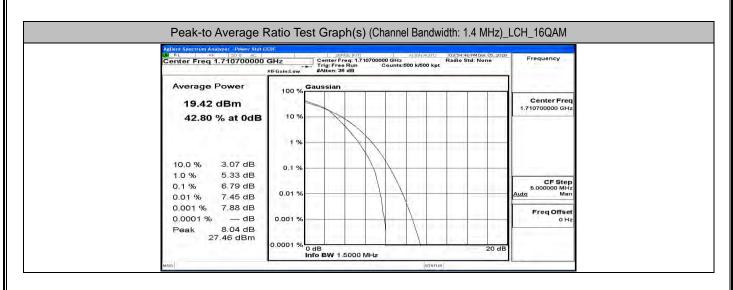
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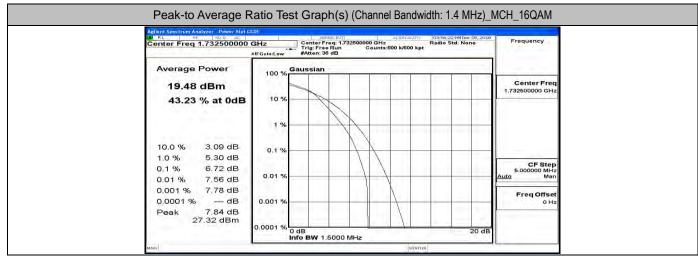




Agilent Spectrum Analyzer - Power Stat I		ALIGNAUTO 09:57:43 PMDec 05, 2018	
Center Freq 1.754300000	GHz Center Freg: 1,754300000 GHz	Radio Std: None Radio Std: None	Frequency
Average Power	Gaussian		
20.21 dBm			Center Freq 1.754300000 GHz
45.56 % at 0dB	10 %		
10.0 % 2.67 dB	0.1 %		
1.0 % 4.61 dB 0.1 % 5.72 dB 0.01 % 6.26 dB	0.01 %		CF Step 5.000000 MHz Auto Man
0.001 % 6.49 dB 0.0001 % dB	0.001 %		Freq Offset 0 Hz
Peak 6.67 dB 26.88 dBm	0.0001 % 0 dB		

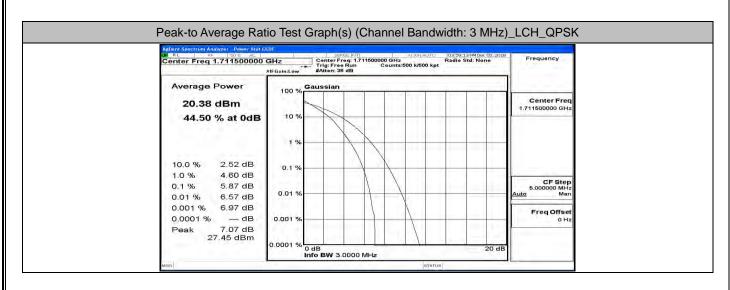
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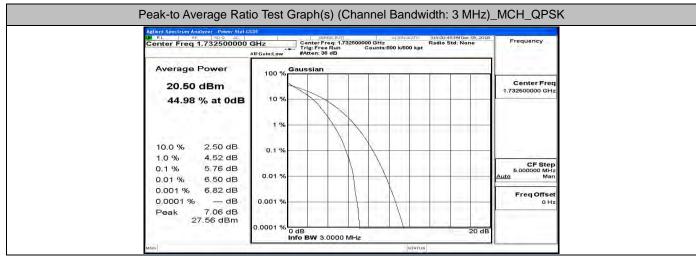




RL         Import         Store         Acceleration         Acceleration         Acceleration         Acceleration         Radio Stdi None         Frequency           enter Freq 1.754300000 GHz         Center Freq 1.764300000 GHz         Center Freq 1.764300000 GHz         Radio Stdi None         Radio
Average Power         Caussian           19.35 dBm         100 %           43.15 % at 0dB         10 %           1%         1 %           10.0 %         3.06 dB           0.1 %         0.1 %
19.35 dBm         Center F           43.15 % at 0dB         10 %           1 %         1 %           10.0 % 3.06 dB         0.1 %
10.0 % 3.06 dB 0.1 %
10.0 % 3.06 dB 0.1 %
0.1% 6.57 dB 0.01% 7.29 dB 0.01%
0.001 % 7.50 dB 0.0001 % dB 0.001 % Peak 7.61 dB

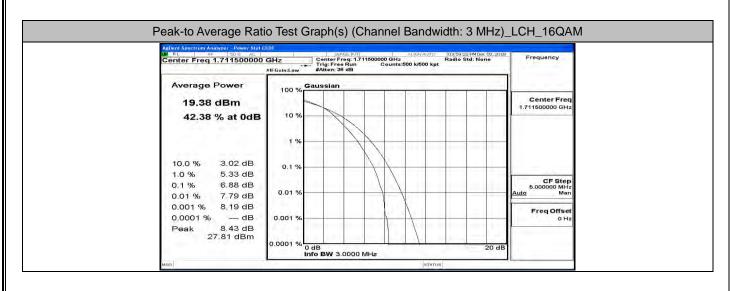
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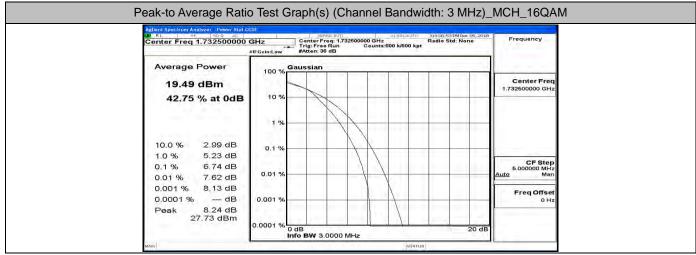




Center Pred 1.75350000 GHz         Trig: Free Run         Counts:500 k/600 kpt           #IFGain:Low         #Atten: 36 dB         Counts:500 k/600 kpt           Average Power         100 %         Counts: 36 dB           20 35 dBm         Counts: 36 dB         Counts: 36 dB	Center Freq
Average Power 20.35 dBm	
20.35 dBm	
45.23 % at 0dB	3500000 GHz
10.0 % 2.51 dB 0.1 %	
0.1 % 5.76 dB 0.01 % 6.41 dB 0.01 %	CF Step 5.000000 MHz Man
0.001 % 6.79 dB 0.0001 % dB 0.001 % Peak 6.89 dB	Freq Offset 0 Hz

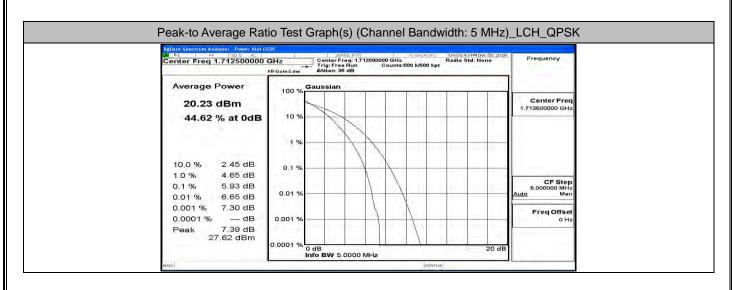
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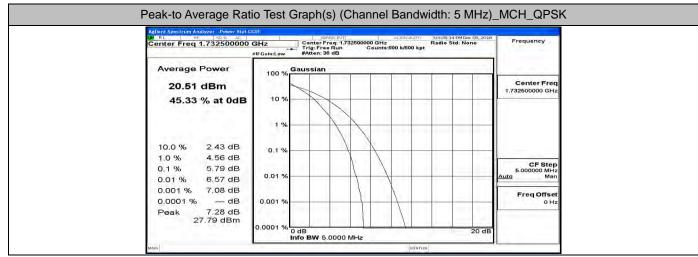




Aglient Spectrum Analyzer Power Stat CCI	SENSE:INT ALIENAUTO	04:02:22 PMDec 05, 2018	
Center Freq 1.753500000 G	SHZ Center Freq: 1.753500000 GHz Trig: Free Run Counts:500 k/500 kpt	Radio Std: None	Frequency
	/IFGain:Low #Atten: 36 dB		
Average Power	100 % Gaussian	1-1-1-1	
19.39 dBm			Center Freq 1.753500000 GHz
42.78 % at 0dB	10 %		1,10000000 0112
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	1 %		
and the second sec			
10.0 % 2.98 dB	0.1 %		
1.0 % 5.14 dB			CF Step
0.1 % 6.49 dB 0.01 % 7.25 dB	0.01 %		5.000000 MHz Auto Man
0.001 % 7.79 dB			
0.0001 % dB	0.001 %		Freq Offset 0 Hz
Peak 8.05 dB			
27.44 dBm	0.0001 % 0 dB		

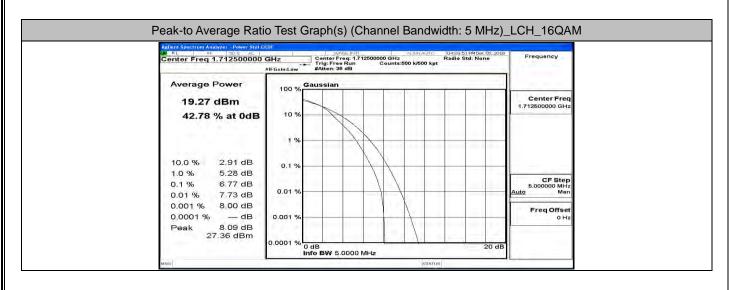
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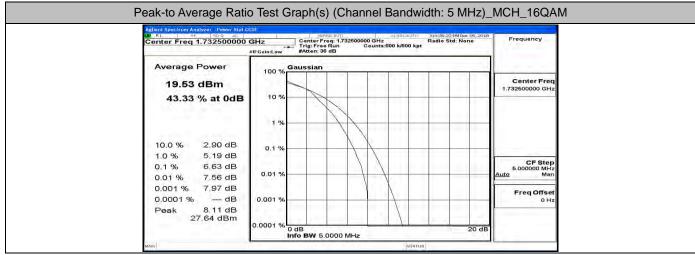




Center Freq 1.752500000 GHz         Center Freq 1.752500000 GHz         Radio Std: None           Average Power         20.39 dBm         100 %         Caussian         Center Freq 1.752500000 GHz         Center Freq 1.752500000 GHz           100 %         2.44 dB         10 %         1 %         Center Freq 1.752500000 GHz         Center Freq 1.752500000 GHz           100 %         2.44 dB         10 %         Center Freq 1.752500000 GHz         Center Freq 1.752500000 GHz           10.0 %         2.44 dB         0.1 %         Center Freq 1.752500000 GHz         Center Freq 1.752500000 GHz           10.0 %         2.44 dB         0.1 %         Frequency         Center Freq 1.752500000 GHz           10.0 %         6.32 dB         0.01 %         0.01 %         Frequency         Frequency           0.001 %         - GB         0.001 %         0.001 %         Other Freq 0.1752500000 GHz         Frequency	Agilent Spectrum Analyzer Power Stat 0	REDIT	SENSE:INT		ALIGNAUTO	104:06:42 PMDec 05, 2018	
Average Power         Caussian           20.39 dBm         100 %           45.46 % at 0dB         10 %           10.0 %         2.44 dB           10.0 %         2.44 dB           1.0 %         4.53 dB           0.1 %         0.1 %           0.01 %         6.32 dB           0.001 %         6.71 dB           0.0001 %         0.001 %			Center Freq: 1.75 Trig: Free Run	Counts:			Frequency
20.39 dBm         Center Freq           45.46 % at 0dB         10 %           10 %         1 %           10 %         1 %           10.0 %         2.44 dB           0.1 %         0.1 %           0.1 %         0.1 %           0.01 %         6.32 dB           0.001 %         6.71 dB           0.0001 %         0.001 %	Average Power	-	ussian				
10.0 %         2.44 dB         1 %           10.0 %         2.44 dB         0.1 %           1.0 %         4.53 dB         0.1 %           0.1 %         5.71 dB         0.01 %           0.001 %         6.32 dB         0.01 %           0.001 %         6.71 dB         0.001 %           0.0001 %         - dB         0.001 %		~			TIT		
10.0 %         2.44 dB         0.1 %           1.0 %         4.53 dB         0.1 %           0.1 %         5.71 dB         0.01 %           0.01 %         6.32 dB         0.01 %           0.001 %         6.71 dB         0.001 %           0.0001 %         - dB         0.001 %	45.46 % at 0dB	10 %	V				
10.0 %         2.44 dB         0.1 %           1.0 %         4.53 dB         0.1 %           0.1 %         5.71 dB         0.01 %           0.001 %         6.32 dB         0.01 %           0.0001 %         - dB         0.001 %	104/02	1 %					
0.1 %         5.71 dB         CF Step         CF Step         Scotool Mitz           0.01 %         6.32 dB         0.01 %         Auto         Man           0.001 %         6.71 dB         0.001 %         Freq Offset         0Hz           0.0001 %	10.0 % 2.44 dB	0.1 %					
0.001% 6.71 dB 0.0001% — dB 0.001%	0.1 % 5.71 dB	0.01 %—					5.000000 MHz
	0.001 % 6.71 dB						Freq Offset
27.18 dBm	Peak 6.79 dB	0.001 %			<b>1</b>	100101	0 Hz

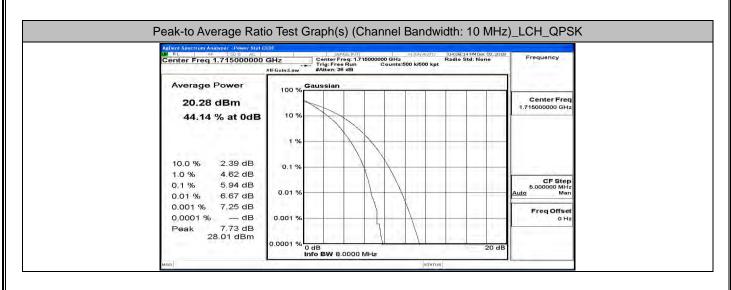
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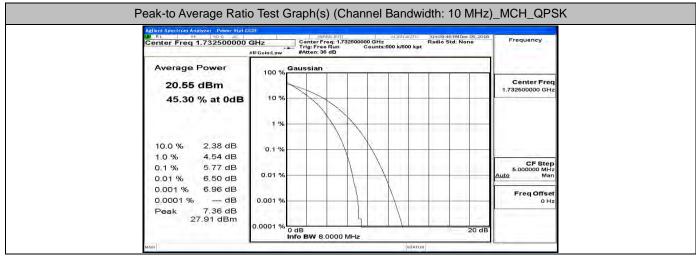




Agilent Spectrum Analyzer - Power Stat Ci	ADIF SENSE:INT ALIGN AUTO	04:06:51 PMDec 05, 2018	
Center Freq 1.752500000	GHz Center Freq: 1.752500000 GHz Trig: Free Run Counts:500 k/500 kpt	Radio Std: None	Frequency
The second Dealers	#IFGain:Low #Atten: 36 dB		
Average Power	100 % Gaussian		
19.42 dBm			Center Freq 1.752500000 GHz
43.65 % at 0dB	10 %		1.752500000 GHZ
1	1%		
and a second second			
10.0 % 2.90 dB	0.1 %		
1.0 % 5.20 dB			CF Step
0.1 % 6.45 dB 0.01 % 7.25 dB	0.01 %		5.000000 MHz Auto Man
0.01 % 7.25 dB			
0.0001 % dB	0.001 %		Freq Offset 0 Hz
Peak 8.24 dB			1 A. 1999
27.66 dBm	0.0001 % 0 dB		

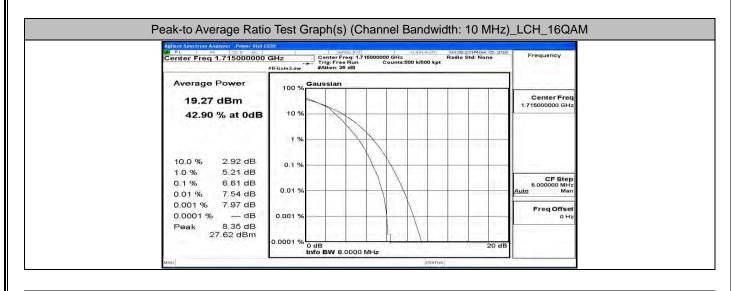
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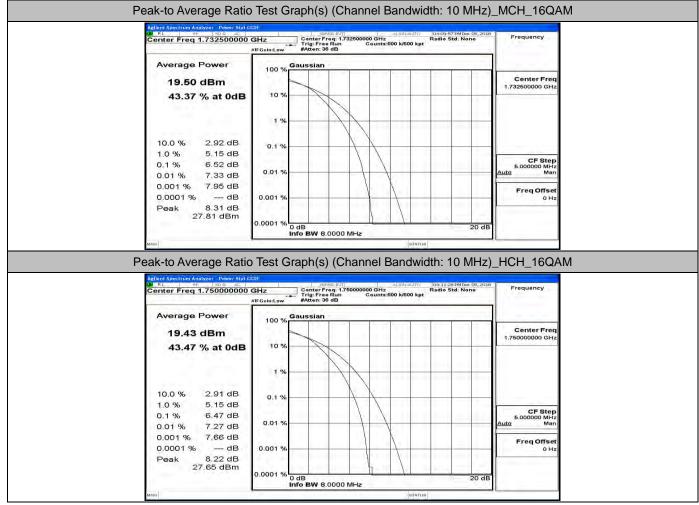




Aglient Spectrum Analyzer - Power Stat G	SENSE:INT ALIGN:		Frequency
Center Freq 1.75000000	GHz Center Freq: 1.750000000 GHz Trig: Free Run Counts:500 k/5/ #IFGain:Low #Atten: 36 dB	Radio Std: None	Frequency
Average Power	1		
	100 % Gaussian		
20.41 dBm			Center Freq 1.750000000 GHz
45.10 % at 0dB	10 %		
	1 %		
10.0 % 2.37 dB			
1.0 % 4.51 dB	0.1 %		
0.1 % 5.71 dB	0.01 %		CF Step 5.000000 MHz
0.01 % 6.35 dB	0.01 %		Auto Man
0.001 % 6.67 dB 0.0001 % dB	0.001 %		Freq Offset
Peak 6.96 dB			U Fiz
27.27 dBm	0.0001 8		
	0.0001 % 0 dB Info BW 8.0000 MHz	20 dB	

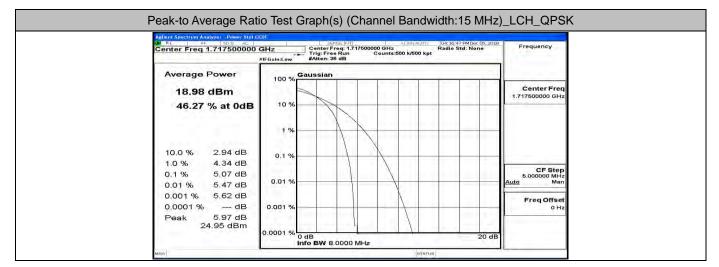
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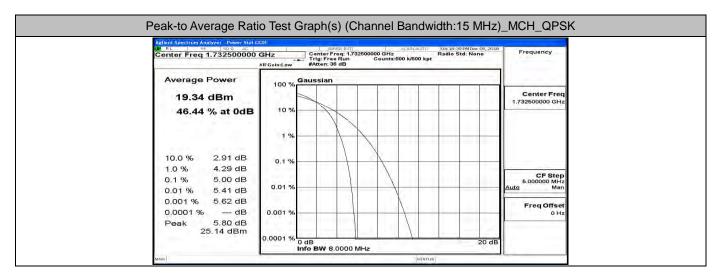




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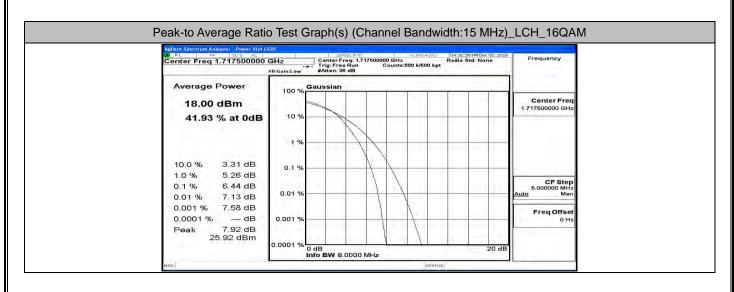
Report No.: LCS181130007AEG

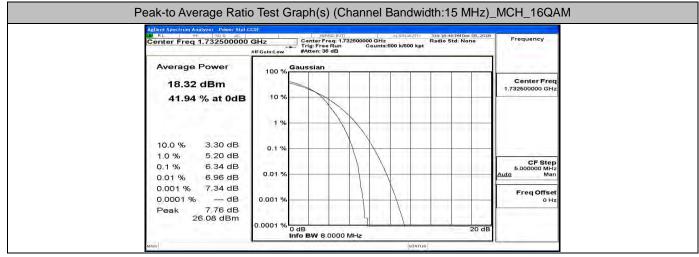




N RL RF 50 Q AC	ico r	SENSEINIT	ALIGNAUTO	04:20:29 PMDec 05, 2018	
Center Freq 1.747500000	Trig	ter Freq: 1.747500 : Free Run en: 36 dB	000 GHz Counts:500 k/500 kpt	Radio Std: None	Frequency
Average Power	100 % Gauss	lan			
19.26 dBm					Center Freq 1.747500000 GHz
46.49 % at 0dB	10 %	V			
	1 %				
10.0 % 2.91 dB 1.0 % 4.25 dB	0.1 %		X		
0.1 % 4.97 dB 0.01 % 5.40 dB	0.01 %				CF Step 5.000000 MHz Auto Man
0.001 % 5.65 dB 0.0001 % dB	0.001 %				Freq Offset 0 Hz
Peak 5.74 dB 25.00 dBm					
25.00 0.511	0.0001 % 0 dB	N 8.0000 MHz		20 dB	

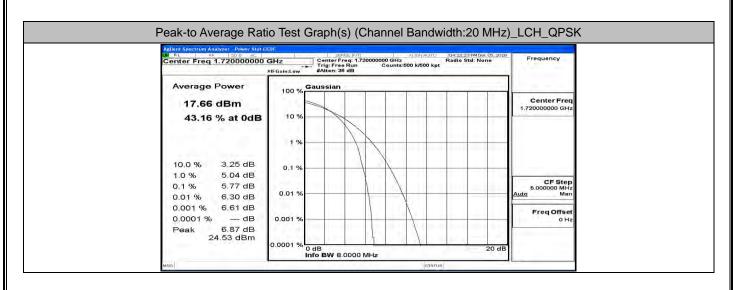
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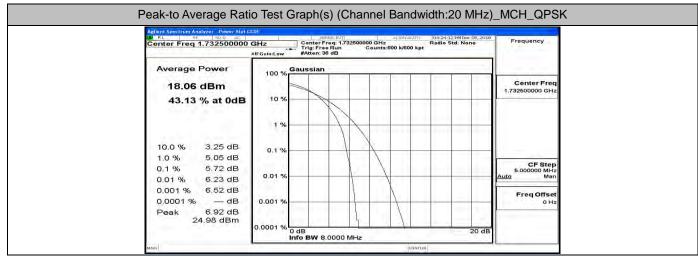




Agilent Spectrum Analyzer Power Stat CO	SENSE:INT	ALIGNAUTO 04:20:38 PMDec 0	5,2018
Center Freq 1.747500000	GHz Center Freq: 1.747500 Trig: Free Run #IFGain:Low #Atten: 36 dB	000 GHz Radio Std: None Counts:500 k/500 kpt	Frequency
and the second sec			
Average Power	100 % Gaussian		
18.24 dBm			Center Freq 1.747500000 GHz
42.10 % at 0dB	10 %		
	1 %		
10.0 % 3.31 dB	0.1 %		
1.0 % 5.19 dB 0.1 % 6.32 dB			CF Step 5.000000 MHz
0.01 % 7.03 dB	0.01 %		Auto Man
0.001 % 7.44 dB			Freq Offset
0.0001 % dB	0.001 %		0 Hz
Peak 7.60 dB 25.84 dBm			
25.84 dBm	0.0001 % 0 dB		D dB

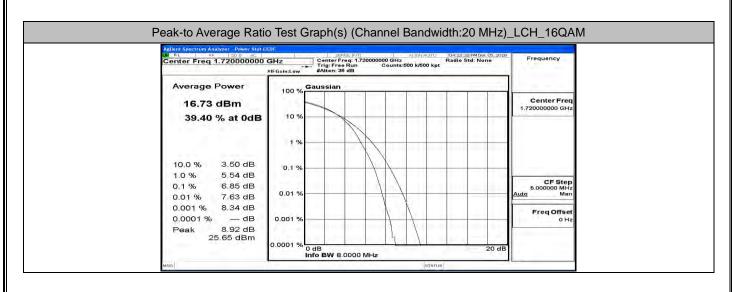
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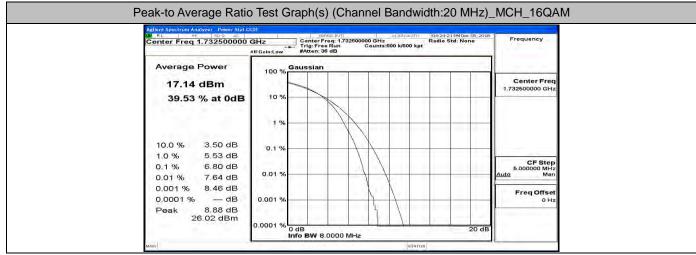




NU RL RF SDQ AC	SED F	ALISNAUTO 1043	25:57 PMDec 05, 2018	
Center Freq 1.745000000		45000000 GHz Rad Counts:500 k/500 kpt	o Std: None	Frequency
			-1	
Average Power	100 % Gaussian		1	
18.03 dBm				Center Freq 1.745000000 GHz
43.29 % at 0dB	10 %			1 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
	1 %	$\land$	_	
1.1.1. D.1.1.1				
10.0 % 3.24 dB	0.1 %			
1.0 % 5.05 dB				CF Step
0.1 % 5.73 dB 0.01 % 6.26 dB	0.01 %			5.000000 MHz Auto Man
0.001 % 6.60 dB				
0.0001 % dB	0.001 %			Freq Offset 0 Hz
Peak 6.78 dB	2.22			0112
24.91 dBm				
	0.0001 % 0 dB Info BW 8.0000	DdLla	20 dB	
	INTO BVV 8.0000	INITIZ		

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RL RF 200 AC	CDF SENSE:IN	ALIGNAUTO D	1:26:08 PMDec 05, 2018 dio Std: None	Frequency
Center Freq 1.745000000	#IFGain:Low #Atten: 36 dB	Counts:500 k/500 kpt	alo sta: None	and a summer of the
Average Power	100 % Gaussian			
17.05 dBm				Center Freq 1.745000000 GHz
39.35 % at 0dB	10 %			
1.000	1 %			
10.0 % 3.52 dB	0.1 %	$\mathbf{N}$		
1.0 % 5.52 dB	0.1 %			
0.1 % 6.74 dB 0.01 % 7.49 dB	0.01 %			CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 8.07 dB	1.10.10			Freq Offset
0.0001 % dB	0.001 %			0 Hz
Peak 8.13 dB				

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# B.3 26dB Bandwidth and Occupied Bandwidth

	EBW & OBW Te	est Result (Channel Band	width: 1.4 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation	Channel	(MHz)	(MHz)	Verdict
	LCH	1.0785	1.249	PASS
QPSK	MCH	1.0755	1.210	PASS
	НСН	1.0764	1.224	PASS
	LCH	1.0774	1.239	PASS
16QAM	MCH	1.0765	1.231	PASS
	НСН	1.0756	1.219	PASS

	EBW & OBW T	est Result (Channel Ban	dwidth: 3 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	Verdict
	LCH	2.6796	2.831	PASS
QPSK	MCH	2.6786	2.818	PASS
	HCH	2.6801	2.826	PASS
	LCH	2.6790	2.842	PASS
16QAM	MCH	2.6817	2.837	PASS
	НСН	2.6785	2.831	PASS

	EBW & OBW T	est Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict					
wouldton	Channel	(MHz)	(MHz)	Verdict					
	LCH	4.4742	4.831	PASS					
QPSK	MCH	4.4872	4.839	PASS					
	HCH	4.4766	4.824	PASS					
	LCH	4.4743	4.884	PASS					
16QAM	MCH	4.4693	4.894	PASS					
	HCH	4.4869	4.863	PASS					

	EBW & OBW Te	est Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict						
	LCH	8.9455	9.568	PASS						
QPSK	МСН	8.9412	9.586	PASS						
	HCH	8.9449	9.503	PASS						
	LCH	8.9445	9.631	PASS						
16QAM	MCH	8.9322	9.489	PASS						
	HCH	8.9405	9.467	PASS						

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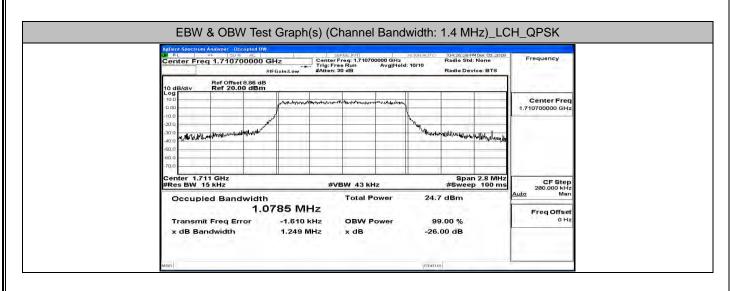
Report No.: LCS181130007AEG

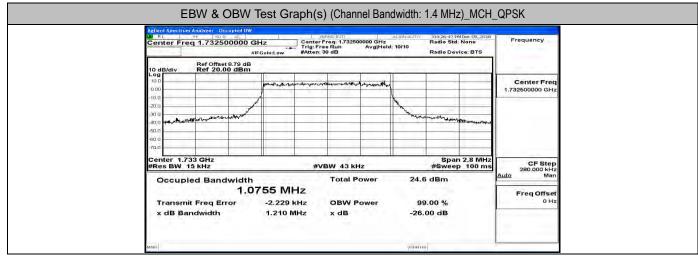
	EBW & OBW Te	Test Result (Channel Bandwidth: 15 MHz)								
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict						
Wodulation	Channel	(MHz)	(MHz)	Verdict						
	LCH	13.407	14.17	PASS						
QPSK	MCH	13.399	14.04	PASS						
	HCH	13.401	14.07	PASS						
	LCH	13.410	14.09	PASS						
16QAM	MCH	13.401	14.18	PASS						
	НСН	13.398	14.11	PASS						

	EBW & OBW Te	est Result (Channel Band		
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
	LCH	17.871	18.69	PASS
QPSK	MCH	17.866	18.62	PASS
	HCH	17.845	18.62	PASS
	LCH	17.876	18.67	PASS
16QAM	MCH	17.842	18.68	PASS
	НСН	17.833	18.66	PASS

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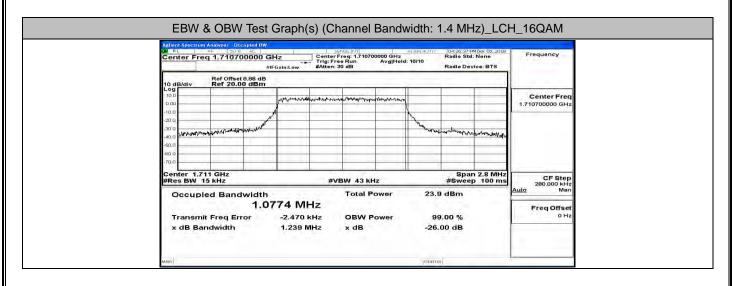


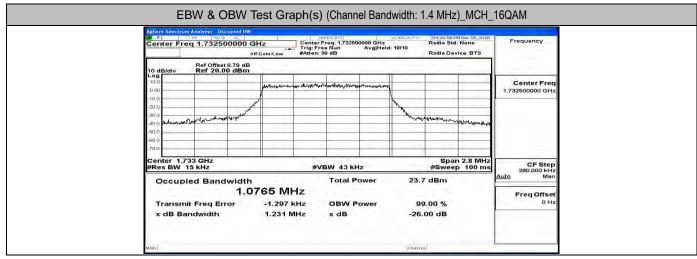
BI BI	nolyzer Occupied BW	//	51	ENGE:INT]		ALIGNAUTO	104:22:05 P	MDec 05, 2018		
Center Freq 1.754300000 GHz Trig:Free Run AvgMol #IFGain:Low #Atten: 30 dB							Radio Std	Frequency		
10 dB/div										
10.0 0.00		Automatical	hand and the second second	neligitation and a second	ethernet and				Center Free 1.754300000 GH	
-10.0 -20.0 -30'0	and and	1				and the				
-30.0 -40.0 <b></b>	and a state of the						anter and a set	asa na ana ang ang ang ang ang ang ang ang		
-70.0 Center 1.754 #Res BW 15			#V	BW 43 KH	z		Spar #Swee	n 2.8 MHz p 100 ms	CF Step	
	d Bandwidth			Total Po		24.	5 dBm		280.000 kHz <u>Auto</u> Man	
1.0764 MHz Transmit Freq Error -2.385 kHz			OBW Power		9	99.00 %		Freq Offset 0 Hz		
enter 1.754 Res BW 15 Occupied	<u>кн</u> z d Bandwidth 1.0	0764 MH	Ηz	Total Po	ower		#Swee 5 dBm	n 2.8 MHz p 100 ms	280.000 Auto	

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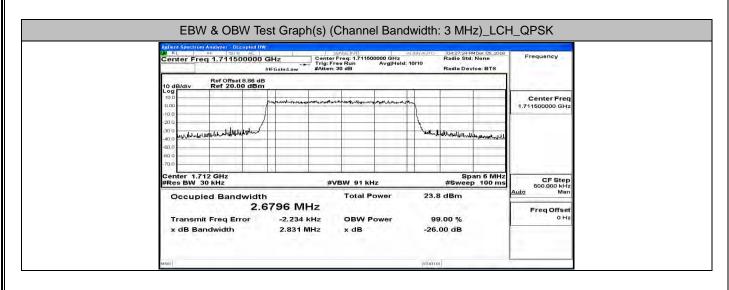


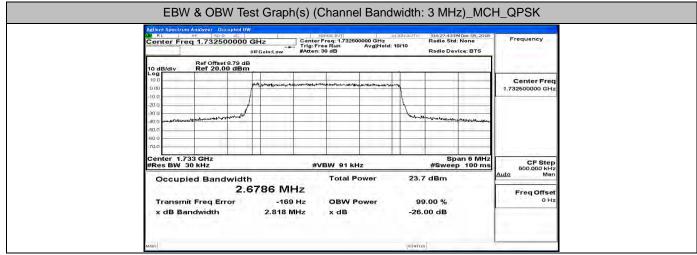


Agilent Spectrum Analyzer Occupied BW		SENSEINT	ALIGNAUTO	100.000					
Mill RL         ave         20.9         AL         SetPach/III         ALE SPACI/ID         Del27:13 MDoc (5), 2018           Center Freq 1.754300000 GHz         Radio Std: None         Free Run         AvgjHeld: 10/10         Ale Std: None           #IFGain:Low         #IFGain:Low         Aktern: 30 dB         Radio Device: BTS									
Ref Offset 8.79 dB 10 dB/div Ref 20.00 dBm									
Log 10.0	protonoment		~			Center Free 1.754300000 GH			
-10.0	1		N		1	1.134300000 0112			
-200 -200 -200 Handrand King and March March	·		Martin	ن يونيه الع					
-40,0 Mar and Mar and American Ame American American Am American American A				without and	Chairman and and and and and				
-60.0									
Center 1.754 GHz #Res BW 15 kHz		#VBW 43 kHz	ų.	Span #Sweep	2.8 MHz	CF Step			
Occupied Bandwidth	Total Power	23.	4 dBm		280.000 kHz <u>Auto</u> Man				
1.0	0756 MHz					Freq Offset			
Transmit Freq Error	1.040 kHz	OBW Power		9.00 %		0 Hz			
x dB Bandwidth	1.219 MHz	x dB	-26	.00 dB					
MBO			stan	19		1			

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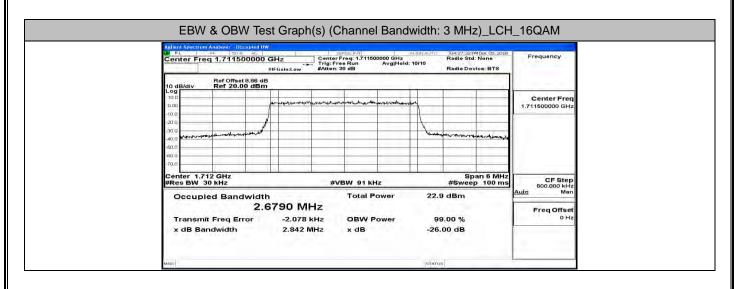


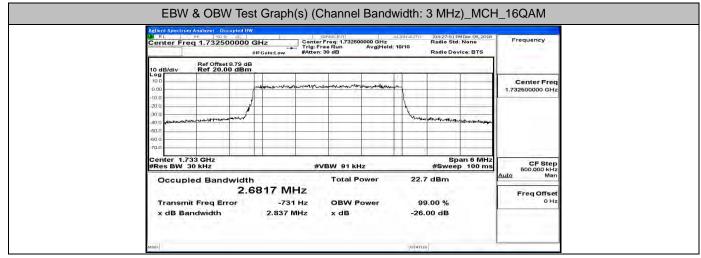
Agilent Spectrum Analyzer Occupied B		SENSEINT				MDec 05, 2018				
RL         or         State         stractivit         autoriation         dutation           Center Freq 1.753500000 GHz         Center Freq 1.753500000 GHz         Radio Stractivition         Radio Stractivition         Radio Stractivition           #IFGain_Low         #IfFGain_Low         Autoriation:         AvgHeld: 10/10         Radio Device: BTS										
10 dB/div Ref 20.00 dBn										
	manuprementer	q.,	group and write the set				Center Freq 1.753500000 GHz			
-10.0	/			Ł						
-30 0 -40 0 popularing the state of land	-			Verrun	hourse	wanter and				
-60.0										
Center 1.754 GHz #Res BW 30 kHz	#	/BW 91 kH	Iz		Sp #Sweet	an 6 MHz p 100 ms	CF Step 500.000 kHz			
Occupied Bandwidt		Total P	ower	23.	6 dBm		Auto Man			
2. Transmit Freq Error	6801 MHz -2.000 kHz	OBW P	ower	9	9.00 %		Freq Offset 0 Hz			
x dB Bandwidth	2.826 MHz	x dB		-26	00 dB					

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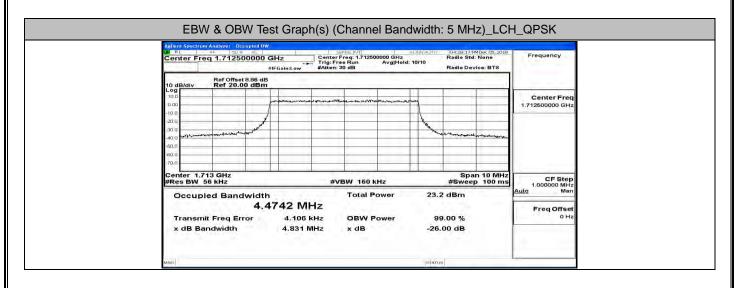


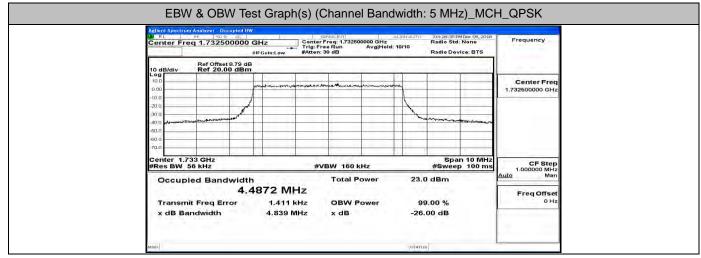
M         R.L         over         Sendschrift         ausschautto         Johrsender Molac (6),2018           Center Freq 1.753500000 GHz         Center Freq 1.753500000 GHz         Center Freq 1.753500000 GHz         Radio Std: None										
#IFGain:Low #Atten: 30 dB Radio Device: BTS										
Ref Offset 8.79 dB 10 dB/div Ref 20.00 dBm										
10.0	1		1	1				Center Fred		
0.00	permanen	and the second of the	-	*************			-	1.753500000 GHz		
-10.0	1				1					
.30.0					X		-			
.40.0 martin and some the same	-				. March	the Writingendary	water and a second			
-50.0										
-70.0		-	-			1	-	II		
Center 1.754 GHz #Res BW 30 kHz		#V	BW 91 kH	z			an 6 MHz p 100 ms	CF Step 500.000 kHz		
Occupied Bandwidth			Total P	ower	22.	5 dBm		Auto Man		
	5785 M	Hz				2 4 4 9 9		Error Offert		
Transmit Freq Error	-1.523		OBW P	ower	9	9.00 %		Freq Offset 0 Hz		
x dB Bandwidth	2.831		x dB		-26	.00 dB				

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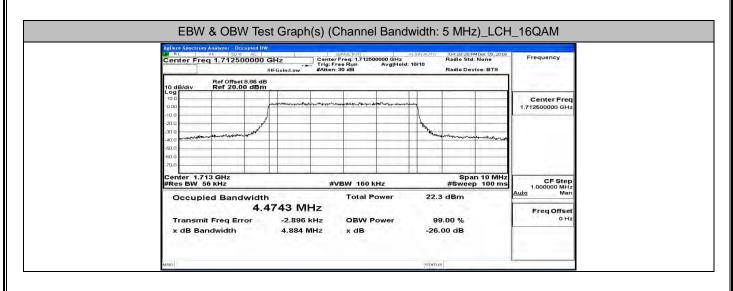


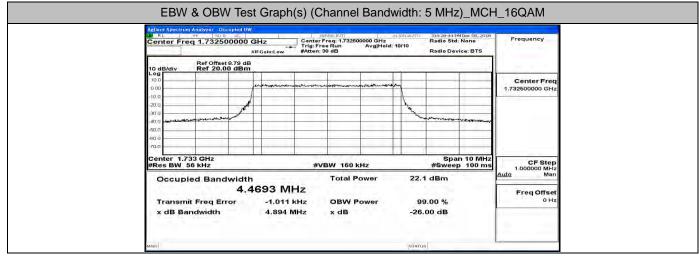


M         RL         PF         SUP AL         SUPACIAL         ALKEYAUTO         D4/28/52 PMDec 05,2010           Center Freq 1.752500000 GHz         Center Freq: 1.752500000 GHz         Radio Std: None         Radio Std: None										
#IFGaln:Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.79 dB										
10 dB/div Ref 20.00 d					1	-	-			
0.00	a sign a sure of	administration of the second			-			Center Freq 1.752500000 GHz		
-10.0	1				1					
-30'0 -40.0	N.				m	man	aluman			
-50.0										
-70.0							1			
Center 1.753 GHz #Res BW 56 kHz		#V	BW 160 P	Hz			n 10 MHz p 100 ms	CF Step 1.000000 MHz		
Occupied Bandwi			Total P	ower	22.	8 dBm		<u>Auto</u> Man		
Transmit Freq Error	4.4766 -3.0	MHZ 88 kHz	OBW P	ower	9	9.00 %		Freq Offset 0 Hz		
x dB Bandwidth		4 MHz	x dB			.00 dB				

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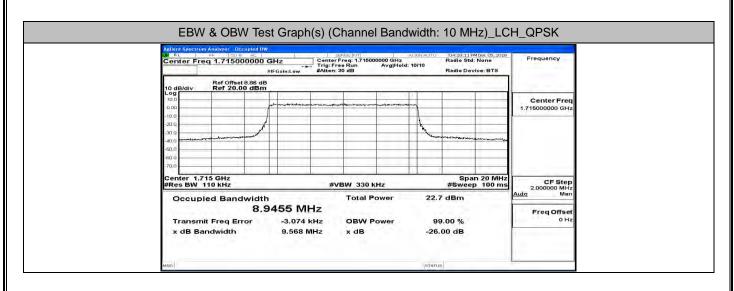


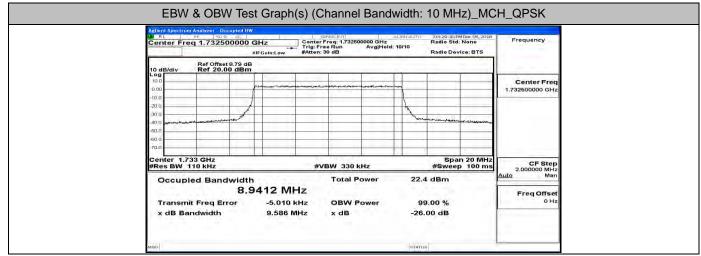


Adjent Spectrom Analyze: Occupied UW BI RL 0F [259 AL] SEVSE[317] ALIENAUTO [04/29/01 [MDec (6, 2018] Center Freq 1.752500000 GHz Radio Std: None RL 0F Freq 1.752500000 GHz										
Center Freq 1.752500000	Frequency									
Ref Offset 8.79 dB 10 dB/div Ref 20.00 dBm										
10.0	al and				1	-	-	Center Freq		
-10.0		and a state of the	and the second s		1		1.752500000 GHz			
-20.0	4				N	-				
-30.0 -40.0 marsher despendentes					1	-	mana			
-50.0					-		-			
-70.0			-							
Center 1.753 GHz #Res BW 56 kHz		#V	BW 160 k	Hz	-		n 10 MHz p 100 ms	CF Step		
Occupied Bandwidt	h		Total P	ower	21.	9 dBm		Auto Man		
4.	4869 MI	Hz						Freq Offset		
Transmit Freq Error -8.309 kHz			OBW Power		99.00 %			0 Hz		
x dB Bandwidth	4.863 N	ЛНz	x dB		-26	.00 dB				

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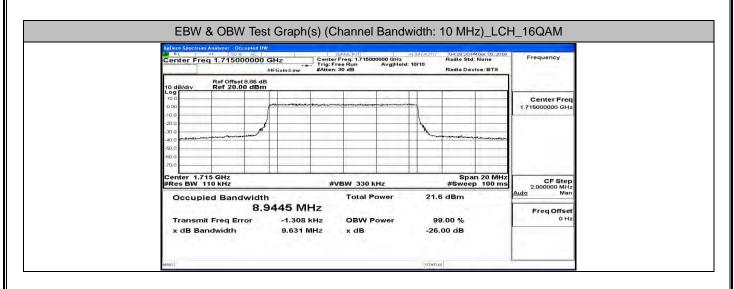


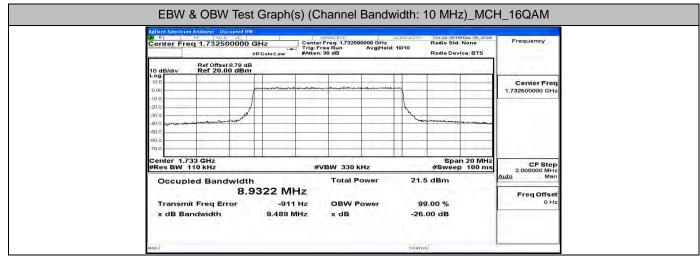


Agileni Spectrum Analyzer - Occupied DW DA RL RF (50.9 Ac SENGEINT) ALIGNAUTO (04:20:471MDec 05, 2018										
Center Freq 1.75000000	#IFGain:Low	Center F	req: 1.75000 e Run		101	Radio Std	None	Frequency		
10 dB/div Ref Offset 8.79 dl										
	minimu		*****		-			Center Freq 1.750000000 GHz		
-10.0					he					
-40.0							and the second second life			
-60.0		-								
Center 1.75 GHz #Res BW 110 kHz #VBW 330 kHz Occupied Bandwidth Total Power						Spa #Sweej	CF Step 2.000000 MHz			
						3 dBm		<u>Auto</u> Man		
8,9449 MHz Transmit Freq Error -2.917 kH						9.00 %		Freq Offset 0 Hz		
x dB Bandwidth	9.503 N	AHz	x dB		-26.	00 dB				

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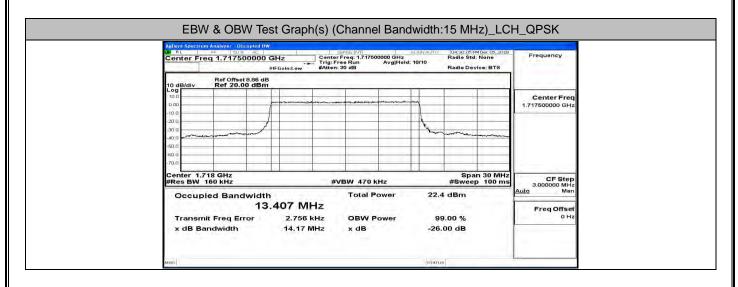


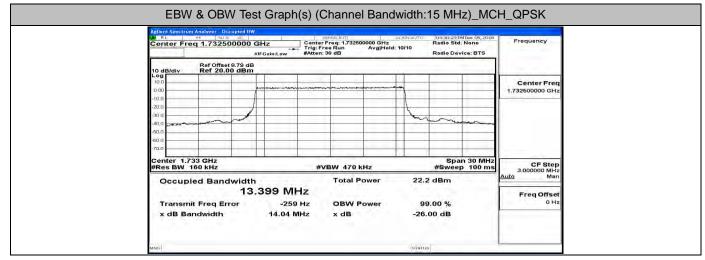
	alyzer Occupied BV		SE	NSE:INT	ALT	NAUTO		MDec 05, 2018			
Center Freq	1.750000000	GHz #IFGaln:Low			o GHz vg Hold: 10.	10	Radio Std: Radio Dev		Frequency		
10 dB/div F	Ref Offset 8.79 dE Ref 20.00 dBm										
10.00		prove - reasons		······					Center Freq 1.750000000 GHz		
100 200 200 400 400 400						has a second and the second se		and the second party			
-70.0 Center 1.75 G #Res BW 110	#VE	BW 330 KHz	CF Step 2.000000 MHz								
Occupied		Total Pow	er	21.4	dBm		Auto Man				
8.9405 MHz Transmit Freq Error -9.958 kHz							.00 %		Freq Offset 0 Hz		

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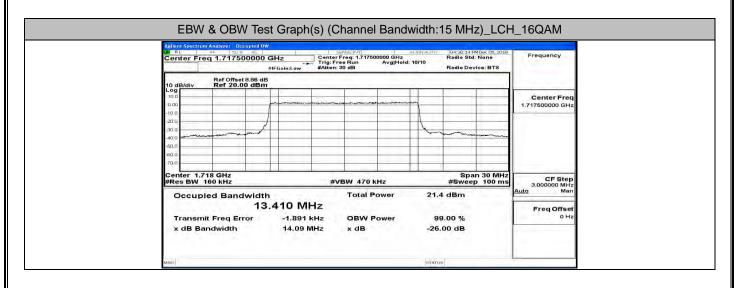


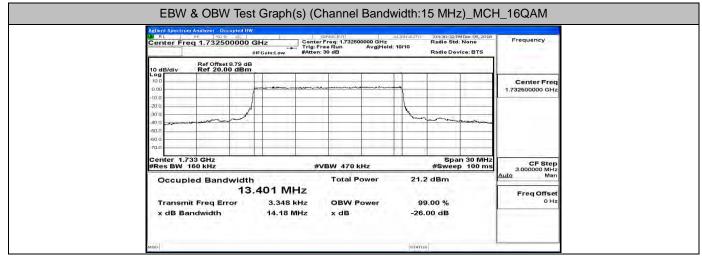
M         RL         %         50.9         AL         Stread of the strea										
	#IFGain:Low	#Atten: 3		Avg Hold:	10/10	Radio Dev	rice: BTS			
10 dB/div Ref Offset 8.79 dB										
Log 10.0	panorinaria	- Annone	**********					Center Freq 1.747500000 GHz		
-10.0 -20.0 -30.0					1					
.40,0					~		all and a second second second			
-60 0 -70.0			_							
Center 1.748 GHz #Res BW 160 kHz			Spa #Sweep	CF Step 3.000000 MHz						
Occupied Bandwidth Total Power						dBm		<u>Auto</u> Man		
1 Transmit Freq Error	OBW Po	wer	99.00 %			Freq Offset 0 Hz				
x dB Bandwidth	14.07 1	VIHz	x dB		-26.	00 dB				

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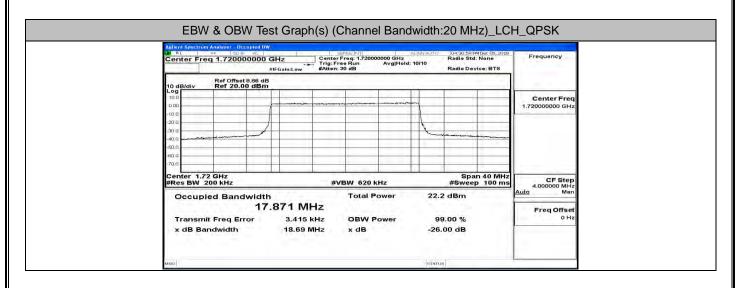


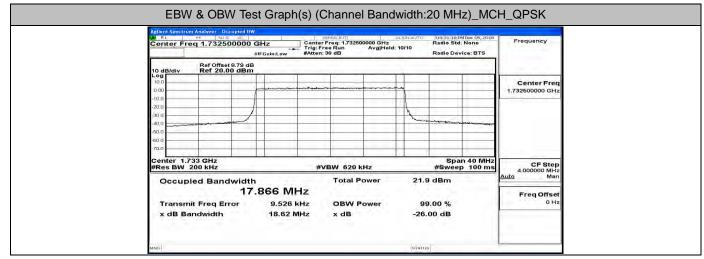
M         H         H         State         State										
Ref Offset 8.7	#IFGain:Lov 9 dB		: 30 dB		1202	Radio Dev	ice: BTS			
10 dB/div Ref 20.00 d	Bm	1			1	1		Contro Free		
0.00	permin	letter	·~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Center Freq 1.747500000 GHz		
-20.0	1				1	-				
-40.0	A l	_			har					
-60.0		_								
-70.0	1.4	-	1.1.1				-			
Center 1.748 GHz #Res BW 160 kHz	Center 1.748 GHz Span 3 #Res BW 160 kHz #Sweep *									
	Occupied Bandwidth Total Power 21.1 dBm							<u>Auto</u> Man		
13.398 MHz Transmit Freq Error -7.365 kHz OBW Power						9.00 %		Freq Offset 0 Hz		
x dB Bandwidth		1 MHz	x dB	ower		00 dB				

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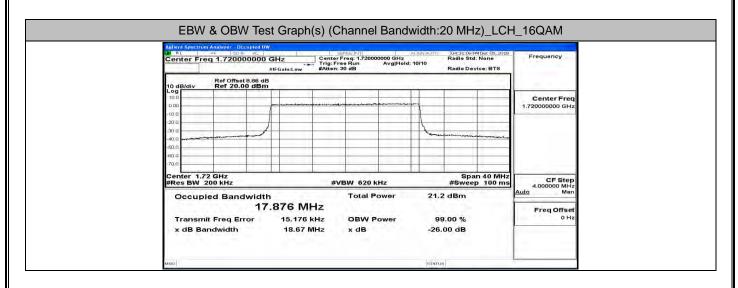


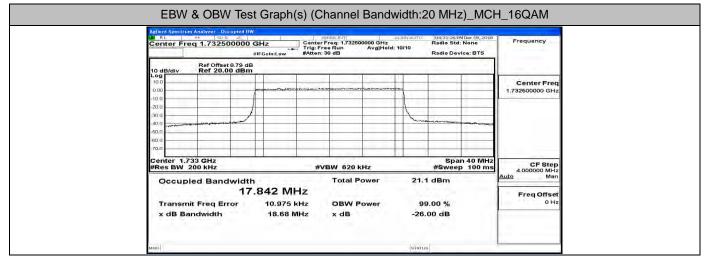
M         RL         yp         [200] AL         SEPARITYI         ALGRAUTO         Def31281M00x (55,2018)           Center Freq 1.745000000 GHz         Center Freq 1.745000000 GHz         Radio Std: None         Radio Std: None           #If Gaint ow         #If Ketn: 30 dB         Radio Std: None         Radio Std: None											
Ref Offset 8.7			n: 30 dB		2,2272	Radio Dev	vice: BTS				
10 dB/div Ref 20.00 d	IBm				1	-		Center Fred			
-10.0			1	****	-tony			1.745000000 GHz			
-20.0						-					
-40.0	1				L		- e				
-50.0											
-70.0											
Center 1.745 GHz #Res BW 200 kHz			VBW 620 P	Hz		Spa #Sweej	n 40 MHz p 100 ms	CF Step 4.000000 MHz			
Occupied Bandwi	21.	9 dBm	Auto Man								
17.845 MHz								Freq Offset			
Transmit Freq Error x dB Bandwidth		2.240 kHz 8.62 MHz	OBW P	ower		9.00 % .00 dB		0 Hz			

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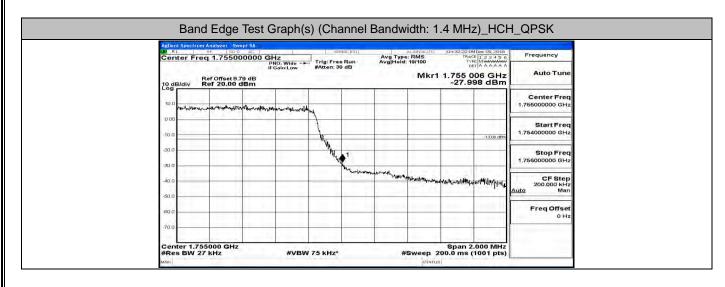


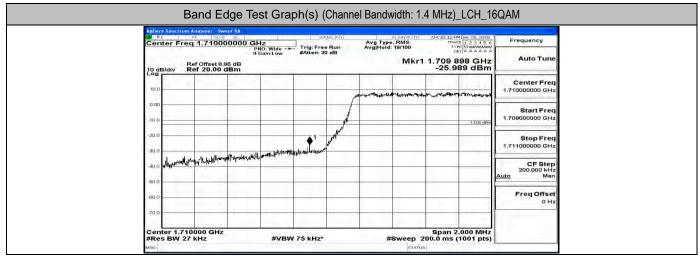
Mr         Mr         Strike (MT)         August Autro         Delts 1: 43 Million (Mt)         Delts 1: 43 Million (Mt) <thdelts (mt)<="" 1:="" 43="" million="" th=""></thdelts>									
		en: 30 dB	a: 10/10	Radio Dev	ice: BTS				
10 dB/div Ref Offset 8.79 c Ref 20.00 dB									
Log 10.0 0.00						Center Fred 1.745000000 GHz			
-10.0			11						
-40,0 -50.0			~		a sugar and man maker of				
-60 0 -70.0									
Center 1.745 GHz #Res BW 200 kHz		#VBW 620 kHz	Span 40 MHz V 620 kHz #Sweep 100 ms						
Occupied Bandwid		Total Power	21.	0 dBm		<u>Auto</u> Man			
1 Transmit Freq Error	7.833 MHz -26.349 kHz	OBW Power	99.00 %			Freq Offset 0 Hz			
x dB Bandwidth	18.66 MHz	x dB	-26	.00 dB					

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### A.4 Band Edge

		1.7100	00000 G	Hz PNO; Wide - P	Trig: Fre	e Run	Avg Type Avg[Hold:	RMS	04:32:03 PM TRAC) TVP	Dec 05, 2018 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
10 de	B/div R	ef Offset 8. ef 20.00	86 dB	IFGain:Low	#Atten: 3	0 dB		Mkr1	1.709 9		Auto Tune
10.0	1.1		н. — -				of the marker allow		and the second strange	mananation	Center Freq 1.710000000 GHz
0.00						1	1.10				Start Freq
-10.0						M				~1.5.00 dBm	1.709000000 GHz
	والشرائي والم	in a second	distriction of the	Mattakovalishad	Manufal And						Stop Freq 1,711000000 GHz
	MMMMari)	Ar. Addison (1) An Inc. Ma	da Titi Kawara								CF Step 200.000 kHz Auto Man
-60.0											FreqOffset
-60.0		1.		1		-		_			0 Hz

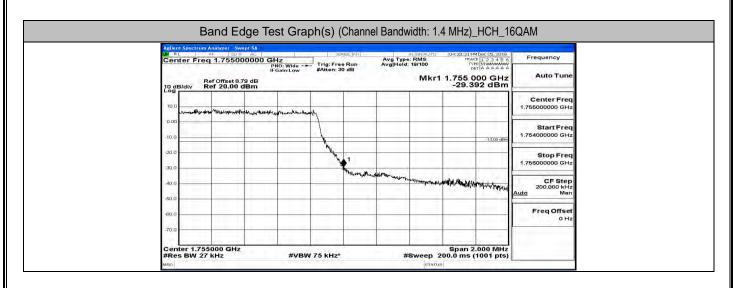


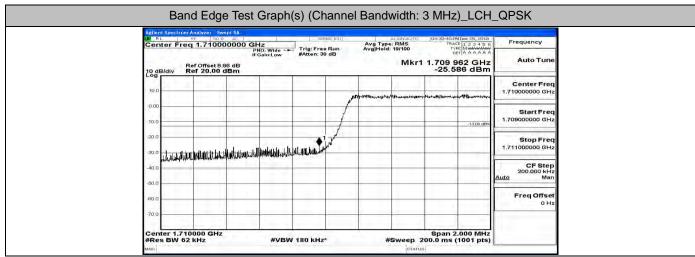


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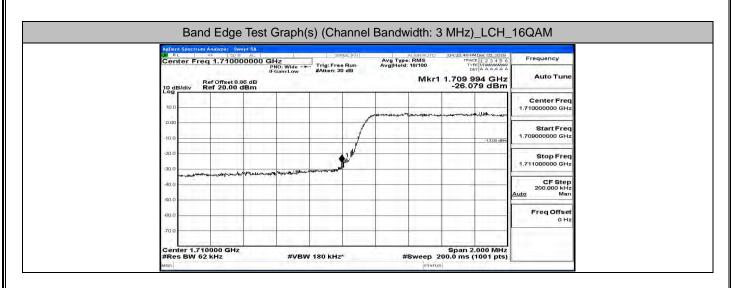


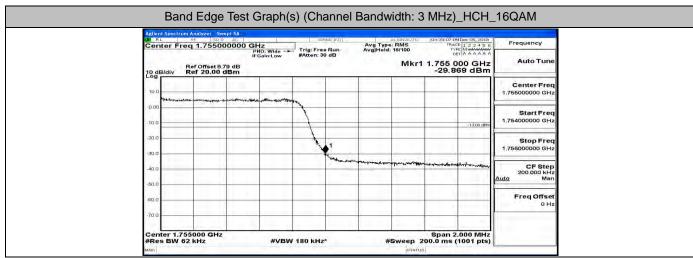
		alyzer Swe										0
Center	r Freq	1.75500	0000 G	Hz NO: Wide -+	CHORES	sense in		Avg Type Avg Hold:	ERMS	04:32:58 FW TRAC	123456 MMMMMM TAAAAAA	Frequency
10 dB/div	Ref iv Ref	Offset 8.7 f 20.00 d	9 dB	Gain:Low	#Atten	: 30 dB				1.755 0		Auto Tune
10.0		and a filled a starting		-				_				Center Freq 1.755000000 GHz
-10.0					1						~1.5.00 dBm	Start Freq 1.754000000 GHz
-20.0	_				7			-			-1.3.00 dbm	Stop Freq 1.75600000 GHz
-40.0						Wine	أحبمينتجرو	w harmon a free	~reasonagentage.	mpineerleveryne	r-neve-train	CF Step 200.000 kHz
-60.0												Auto Man Freq Offset
-70 0												0 Hz

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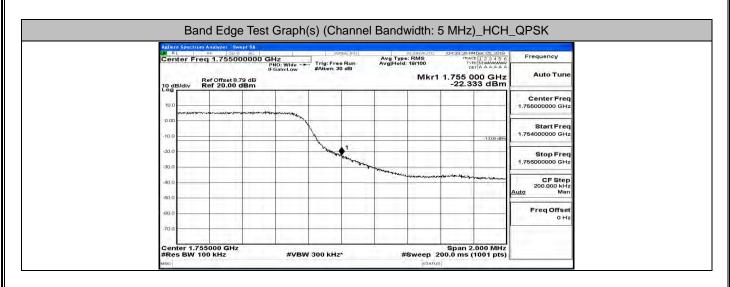


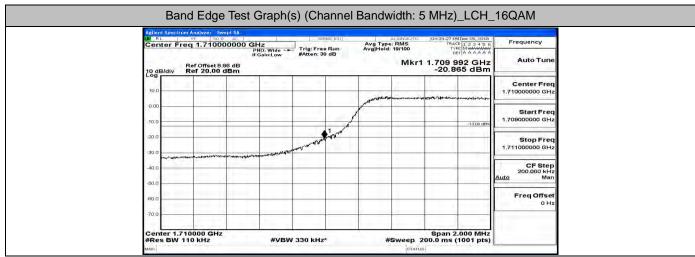
MI         Image: State in the state i
Mkr1 1.709 988 GHz         Auto T           10 dB/dtv         Ref 07set 8.85 dB         -19.925 dBm           10 0         -19.925 dBm         -19.925 dBm
100 Center 1 100 Conter 1 1.7100000000 Conter 1 1.7100000000 Conter 1 1.7100000000 Conter 1 1.7100000000 Conter 1 1.7100000000 Conter 1 1.7100000000 Conter 1 Conter 1 Cont
d Startf
20.0
30.0 40.0 60.0
mon FreqOi

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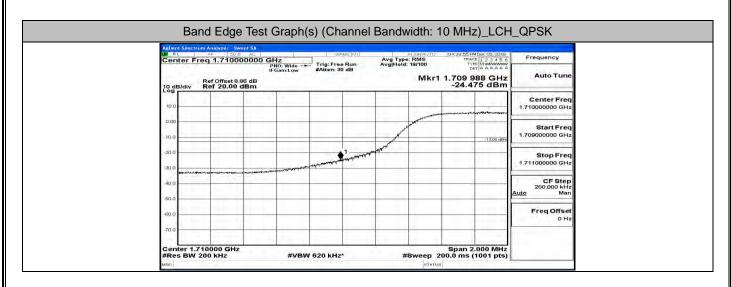


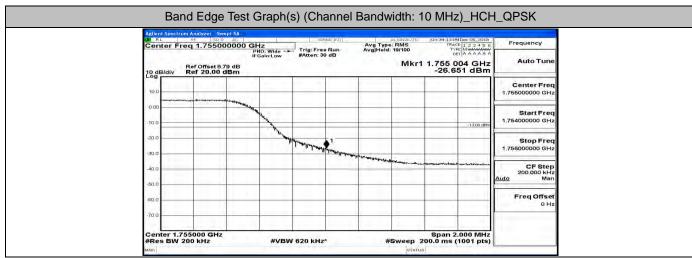
	Analyzer Swept S								
	q 1.7550000		and the state of the	e Bun	Avg Type Avg Hold:	: RMS	04:39:45 PM TRACE TYPE	123456 MMMMMM AAAAAA	Frequency
10 dB/div F	Ref Offset 8.79 di Ref 20.00 dBm	IFGain:Low	#Atten: 3	i0 dB			1.755 0		and a second sec
10.0		water for the second							Center Freq 1.755000000 GHz
-10.0		and a second second	1					~1.5.00 dBm	Start Freq 1.754000000 GHz
-20.0			Handlerer .	1 Trypuly way with					Stop Freq 1.75600000 GHz
-40.0					TETIP LEAST-CONTRACT	• ••••••••••••••••••••••••••••••••••••		₽₩₩₽₽₽₩₩₩₽₽	CF Step 200.000 kHz Auto Man
-50.0								-	Freq Offset 0 Hz

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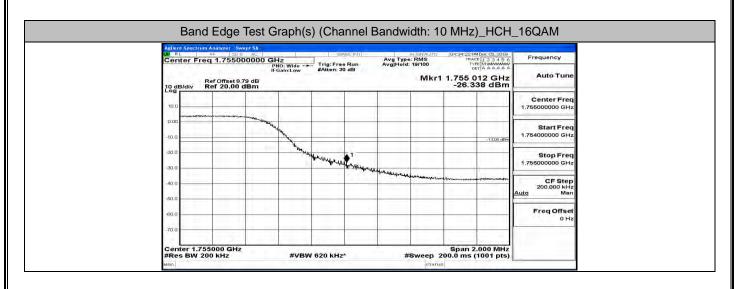


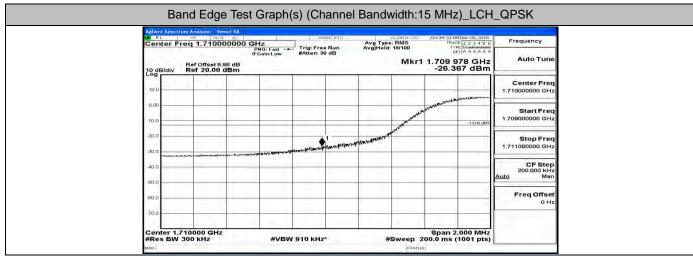
Agile	int Spectra											
		eq 1.7		0000 GH	Hz NO;Wide -►	and the second second	e Bun	Avg Typ	: RMS	D4:34:04 IA TRAC	10ec 05, 2018 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
10 0	B/div	Ref Off Ref 2		iFi 3 dB	Gain:Low	#Atten: 3	0 dB			1.709 9		Auto Tune
10.	11.00											Center Freq 1.710000000 GHz
-10.0	1.000							1	- Martine -		~1.5.00 dBm	Start Freq 1.709000000 GHz
-20.0						acount of the set	1 Jug-rest wards	and the second s				Stop Freq 1.711000000 GHz
-40.0	1.0		w									CF Step 200.000 kHz Auto Man
-60.0				-								Freq Offset 0 Hz

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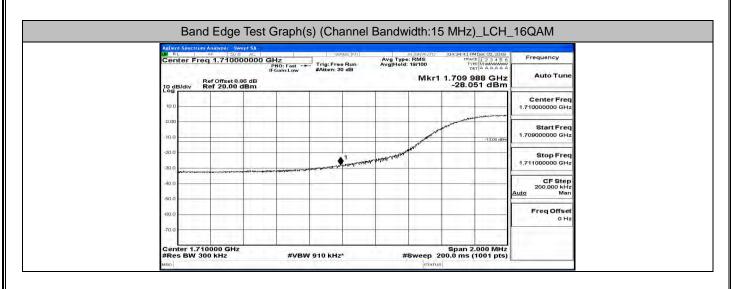


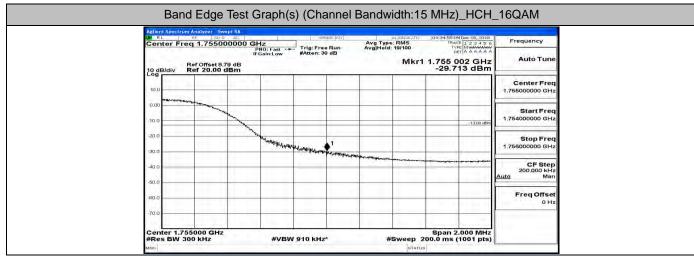
		Analyzer S									
Cen		q 1.7550	000000 G	Hz PNO: Fast ->	- C - 4047 - 5	e Bun	Avg Type Avg[Hold:	RMS	04:34:50 PMI TRACE	123456 MMMMMM AAAAAA	Frequency
10 dE		Ref Offset 6 Ref 20.00	1 9.79 dB	FGain:Low	#Atten: 3	0 dB			1.755 00		Auto Tune
10.0	********		1								Center Freq 1.755000000 GHz
-10.0			and and					-		-1.3.00 dBm	Start Freq 1.754000000 GHz
-20.0			,	Month Monthly	attributer to the first	1 Latingramman					Stop Freq 1.75600000 GHz
-40.0							allindendende Undersam	West-spine (with spines	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CF Step 200.000 kHz Auto Man
-60.0											Freq Offset 0 Hz

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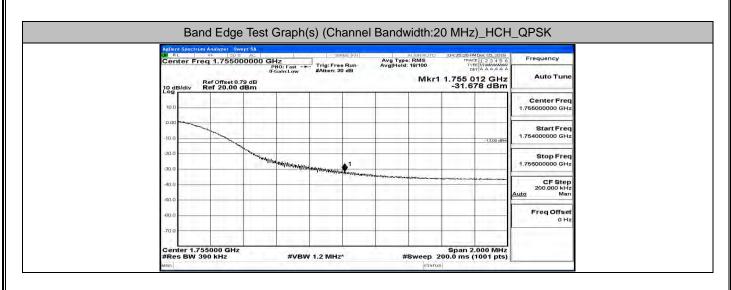


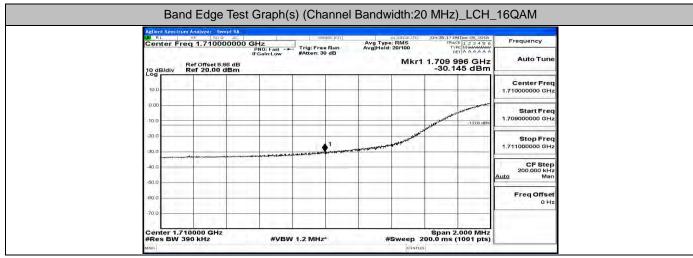


	ctrum Analyze								
	Freq 1.7	10000000	GHz PNO: Fast	a Couper to re-	Bun	Avg Type: Avg Hold:	RMS	04:35:08 PMDec 05, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET A A A A A A	Frequency
10 dB/div		set 8,86 dB .00 dBm	IFGain:Low	#Atten: 30	0 dB			.709 978 GHz -29.323 dBm	Auto Tune
10.0	1.1								Center Freq 1.710000000 GHz
-10.0								-15.00 dBm	Start Freq 1.709000000 GHz
-20.0					1	an when the start	With Martin and Martin		Stop Freq 1.711000000 GHz
-40.0					anne an				CF Step 200.000 kHz Auto Man
-60.0									Freq Offset 0 Hz

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		im Analyzer	Swept SA								
Ce			5000000		a a Carolina	ee Bun	Avg Typ Avg Hold	aligNAUTO : RMS : 18/100	D4:35:35 PM TRACE	123456 Mummun AAAAAA	Frequency
10	dB/div	Ref Offse Ref 20.1	t 8.79 dB 00 dBm	IFGain:Low	#Atten:	30 dB			1.755 0		Auto Tune
10	11.00				_						Center Freq 1.755000000 GHz
0.0 -10	0	Here will sugar								-1.3.00 dBm	Start Freq 1.754000000 GHz
-20.	11.00		Water	May Down and a strong and the st	an warmon with many	•1					Stop Freq 1.756000000 GHz
-40									• • • • • • • • • • • • • • • • • • •		CF Step 200.000 kHz Auto Man
-60.											Freq Offset 0 Hz

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## **B.5 Conducted Spurious Emission**

0.00/	RL		Analyzer	20.97	DC-	1		Sent.	se:Iniy]	Aug Tre		04:35:554	MDec 05, 2018	Frequency
Ce	nte		79.5		-	PNO: Wide FGain:Low	Trig #Ati	Free ten: 10	Run dB	Avg Typ Avg Hold			CE 123456 PE MUMMUM BET A A A A A A	200.00
10 0	dB/d	iv R	ef Offs tef 8.5	et 8.68 8 dB	dB m	_	_		×			-72.8	063 kHz 21 dBm	Autorune
-1.4	0.0	-	-		-									Center Fred 79.500 kH
-05	4	-		-				_						Start Fred
-21	4	-						_						9.000 KH;
-31.	4	-					-							Stop Free
-41-	4	-	-									-	-43.00 dBm	150.000 kH;
-61	4	-												CF Step 14.100 kH Auto Mar
-61		<b>A</b> 1												Freq Offse
-71.	MA	MUNAU	n was	A 10	her	an a far alm	many	Maria	Aman	maham	homore	hand	Muser Martin	0 H:
-	-	head	uMu h	W	W/My/M	under A.	al k t	No. 1	V. 1.	A.1. A.1.				
Sta #Re	art 9 es B	.00 kł	iz kHz			#VI	3W 3.0	kHz*				174.0 ms	50.00 kHz (1001 pts)	
Agile	ent Sp	ectrum	Analyzer	Swe	of SA			_			aran	s 🔔 DC Co	upled	
1,364	RL		RE	50 9 /	DC MH	r PNO: Fast FGain:Low	- Tris	seru: Free	Run	Avg Typ Avg Hold	ALIGNAUTO E: RMS : 8/100	04:36:004 TBA	MDec 05, 2018 CE 1 2 3 4 5 6 PE MMMMMM DET A A A A A A	Frequency
10 0	dB/di	iv R	ef Offs lef 8.5	et 8.68 8 dB		FGain:Low	#Ati	ten: 10	dB			Mkr1	538 kHz 335 dBm	Auto Tune
-1.4		1												Center Free 15.075000 MH
-05	4	-				_	_							Ciant F
-21-	4	-	-						_					Start Free 150.000 kH;
-31.5	4	_	-				_					-	-33:00 df3m	Stop Free
-41.3	4		-	-			-							30.000000 MH;
-61.	4	1	-											CF Step 2.985000 MH Auto Mar
-61	A.	ألبن												-
-71-	ł	VW	1.1	M		1.			1.1			I CD	1.5	Freq Offse 0 H
-61.	4	'	W	M	Nonnau	havenevillerigen	human	withour	punter-ourshipped	herman	whethermitte	nd sample is small		
Sta #Re	art 1 es E	50 KH SW 10	z KHz			#VI	3W 30 H	Hz*				368.3 ms	30.00 MHz (1001 pts)	
MSG	ent Se	ectore	Analyzer	Sweet	154	_		_			STAT	s 🚺 DC Co		
1.00	RL		RE	50 9	AC.	GHz	Trie	SEN:	SE:INT	Avg Typ Avg Hold	ALIGN AUTO e: RMS : 4/100	04:36:041 TBA	MDec 05, 2018 CE 1 2 3 4 5 6 PE MMMMMM SET A A A A A A	Frequency
		R	ef Offs	et 7.95	dB	PNO: Fast FGain:Low	#At	ten: 40	dB	11.4		kr2 25.	740 GHz	
10 c Log		iv R	tef 30.	00 di	3m	1			1		-	-30.1	74 dBm	Center Fred
200	0		-				-							13.015000000 GH:
100	0	Q1	1											Start Fred
0.0	0													30.000000 MH;
-10.0	0		-		-	-	-					-	-13,00 dtsin	Stop Free 26.00000000 GH
-20.0													3	
-30.0			han		ment	1.			and an and a start		man	montemp	more	CF Step 2.597000000 GH Auto Mar
-40.0	-	- Andrew	- ander	110		and a second	nomeno						11	FreqOffse
														он
	0					1					1			
-60.0		0 MH			1				-				26.00 GHz (1001 pts)	

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Report No.: LCS181130007AEG

 DA RL		q 79.50	20 9 A DC-1	i		sense:Init]			04:36:28 P	MDec 05, 2018	Frequency
Sout				PNO: Wide IFGain:Lov	#Atte	ree Run 1: 10 dB	Avg Typ Avg Hold			1 2 3 4 5 6 FE 1 2 3 4 5 6 FE A A A A A A 551 kHz	20512-00
10 dB.	/div	Ref Offse Ref 8.58	8.69 dB	_			-	IV	-73.0	91 dBm	
-1.42			1		-						Center Freq 79.500 kHz
-11.4 -											Start Freq 9.000 kHz
-31.4 -	-				-						Stop Freq 150.000 kHz
-41.4										-43.00 (Bm	CF Step 14.100 kHz
-61.4	.1				_						Auto Man Freq Offset
-71.4	honny	mprov/mlps	www.	Mannaha	manna	Under Award	1. Monthanna	Man April and	Maria	Man	0 Hz
Start #Res	9.00 k BW 1.	Hz	<u></u>	#V	BW 3.0 K	iz*		Sweep 1	Stop 10	50.00 kHz 1001 pts)	1
MSO	-	Analyzer	Swept SA			_			8 🤳 DC Co		L
RI BI		19 F	75000 M	Hz	Tria:	sense:min  ree Run	Avg Typ Avg Hold	e: RMS	04:36:34 M TRAI	MDec 05, 2018 TE 1 2 3 4 5 6 PE MWWWWWW ET A A A A A A	Frequency
10 dB.	/div	Ref Offse Ref 8.58	8.69 dB dBm	PNO: Fast IFGain:Lov	v #Atte	n: 10 dB				28 MHz 34 dBm	Auto Tune
-1 42 -											Center Freq 15.075000 MHz
-11.4 -											Start Freq 150.000 kHz
-31.4								1		-39.00 dfan	Stop Freq
-41-4					-				-		30.000000 MHz
-61.4		1				1					CF Step 2.985000 MHz Auto Man
-71.4	h. Mar	Ň			-	-					Freq Offset 0 Hz
-81.4 -	A.I.	Mallhave	dur wum	nihatime another	Magnahalinahana	new work and the second	and allowing the	and the second second	all an international the	dury-yoursessor	
Start #Res	150 kł BW 10	Hz 0 KHz	1	#V	'BW 30 KH	iz*			Stop 3 368.3 ms (	0.00 MHz 1001 pts)	
 N BI		Analyzer	Swept SA	0 GHz		SENSE:INT			04:36:37 P	MDec 05.2018	Frequency
		Ref Offse Ref 30.0		PNO: Fast IFGain:Lov	Trig: #Atte	ree Run h: 40 dB	Avg Typ Avg Hold		kr2 25.7	66 GHz	1000 ( 0.00
10 dB.	/div I	Ref 30.0	0 dBm	-		1			-30.5	20 aBM	Center Freq 13.015000000 GHz
10.0	0	1	1		-						
	Y	1			-						Start Freq 30.000000 MHz
0.00		1.0.00	1.0							1 million 11	· · · · · · · · · · · · · · · · · · ·
0.00 -10.0	-		-							-13,00 dtwn	Stop Freq 26.00000000 GHz
0.00										3	26.00000000 GHz
0.00 - -10.0 - -20.0 -	averation	Such	www.www.un	mana			-		in all marks of a second	-13,00 dtem	26.00000000 GHz CF Step 2.597000000 GHz <u>Auto</u> Man
0.00 - -10.0 - -20.0 -	averetaire	- Yes the			a sugar	un <sup>g</sup> t months in the			in all an indiana	3	26.00000000 GHz

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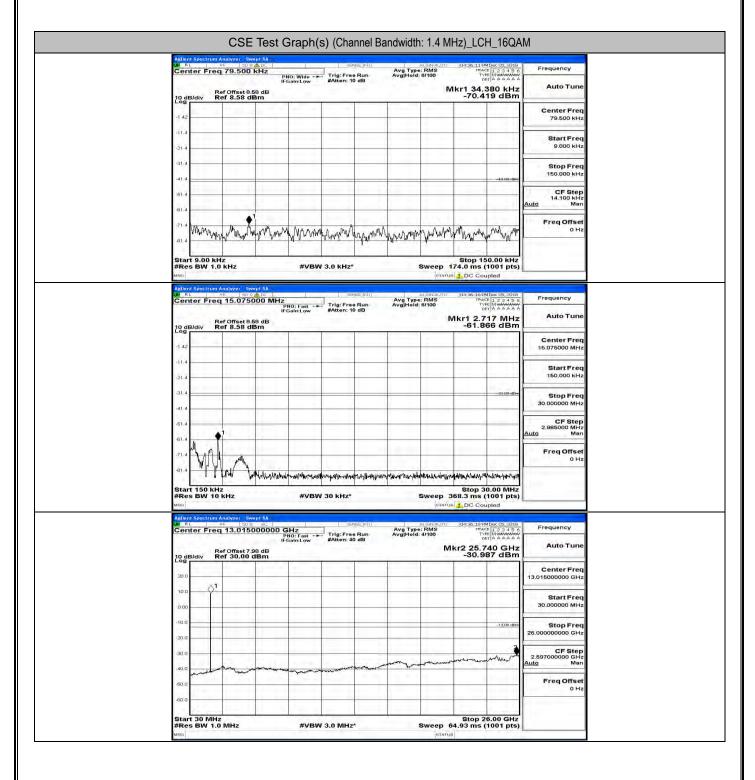
Report No.: LCS181130007AEG

SK	H_QPS	Hz)_HC	n: 1.4 M	andwidth	annel B	n(s) (Cl	Graph		CS m Analyzer	nt Spects	Agileo
Frequency	1Dec 05, 2018 E 1 2 3 4 5 6 E Minianian T A A A A A A	04:37:00 PA	ALIGNAUTO	Avg Type Avg Hold:	ande:Iniy	Trig: F	1	9 ADC	eq 79.50	L	LW RI
Auto Tun	000 kHz 10 dBm	Vkr1 9.0		Avginoid:	10 dB	#Atten	PNO: Wide - IFGain:Low		Ref Offset	B/div	10 di
Center Fre 79.500 kH								-	4 12 10	10.00	-1.42
Start Fre 9.000 kH											-11.4
Stop Fre 150.000 kH	-43.00 dBm										-31.4
CF Ste 14.100 kH Auto Ma		_	-								-61.4
Freq Offse 0 H								٨		1 Multha	-61.4
	0.00 kHz 1001 pts)	Stop 15 74.0 ms (	Sweep 1		many bayan 	₩¶¶¶ <sup>¶</sup> w з.о кн	#VB	rided and	KHZ I.O KHZ	rt 9.00 s BW	-81.4 Star #Re:
Frequency	1Dec 05, 2018 E 1 2 3 4 5 6 E MWANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	04:37:05 PA	al iGN AUTO	Avg Type Avg Hold:		F Trig: F	z	RADE I	m Analyzer ⊮⊨ ⊡ eq 15.07	L	LM RI
Auto Tun	98 MHz 47 dBm	1kr1 2.5		Avginora.	10 dB	#Atten	Z PNO: Fast - IFGain:Low		Ref Offset	B/div	10 di
Center Fre 15.075000 MH									1 11 11	10.00	-1.42
Start Free 150.000 kH											-11.4
Stop Fre 30.000000 MH	-39:00 dfan										-31.4
CF Ste 2.985000 MH Auto Ma							-		<b>●</b> <sup>1</sup>	-	-61.4
Freq Offse			-						Ă.	4	-61.4 -71.4
	100 million 100 million 1	All and a second second	he the second	underversioner	whentyperation	monteritie	rillity of a societ with	Winstern groups	and a second second	W.	-81.4
		Stop 3 68.3 ms ( <u>1</u> DC Cou		Ę		W 30 KH:	#VB		Hz IO KHZ	rt 150 es BW	Star #Re: MSO
Frequency	1Dec 05, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	04:37:08 PM TRAC TYP	ALIGNAUTO : RMS 4/100	Avg Type Avg[Hold:	ense Iniri	F Trig: F	GHz PNO: Fast - IFGaln:Low	Q AL	m Analyzer RF 52 eq 13.01	L I	DW RI
Auto Tun	14 GHz 33 dBm	kr2 25.7			40 dB	#Atten	IFGain:Low		Ref Offset Ref 30.00	B/div	10 de Log
Center Fre 13.015000000 GH											20.0
Start Fre 30.000000 MH									, <b>1</b>		0.00
Stop Fre 26.00000000 GH	-13,00 dbin										-10.0
CF Ste 2.597000000 GH Auto Ma	munit	and the second	mana	parting							-30.0
FreqOffse				- Terreter		martin	man norm		and we have	ma	-40.0 -50.0
он	6.00 GHz 1001 pts)		1						Hz 1.0 MHz	14.0	-60.0

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FCC ID: 2ADTE-S70

Report No.: LCS181130007AEG



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Report No.: LCS181130007AEG

Agilent Spectrum Analyzer Swept	SENSE:IN	ALIGNAUTO (043	15:44 PMDec 05, 2018	Frequency
Center Freq 79.500 kH	PNO: Wide Trig: Free Run IFGain:Low #Atten: 10 dB	Avg Type: RMS Avg Hold: 8/100	TYPE MINANA A DET A A A A A A 33.080 kHz	AutoTune
10 dB/div Ref 8.58 dBm		-6	59.885 dBm	
-1.42			-	Center Freq 79.500 kHz
-11.4				Start Freq 9.000 kHz
-21.4				
-41.4			-43.00 dBm	Stop Freq 150.000 kHz
-61.4				CF Step 14.100 kHz Auto Man
-61.4			•1	Auto Man Freq Offset
31.4 martungener wonder M	manutare and reach and and	Maryanananan	manymphile	0 Hz
Start 9.00 kHz		Sto	op 150.00 kHz	
#Res BW 1.0 kHz	#VBW 3.0 kHz*	Sweep 174.0	ms (1001 pts)	
Aglient Spectrum Analyzer, Swept Of RL PF 190 9450 Center Freq 15.075000	Service INI	ALIGNAUTO  04:5 Avg Type: RMS	10:49 PMDec 05, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET A A A A A A	Frequency
	IFGain:Low #Atten: 10 dB		cr1 538 kHz	Auto Tune
10 dB/div Ref 8.58 dBm		-6	64.517 dBm	
-1.42			1	Center Freq 15.075000 MHz
40.4				Start Freq
-31.4			-39.00 dfan	Stop Freq
×41.4				30.000000 MHz
-61.4				CF Step 2.985000 MHz Auto Man
·B1.4				FreqOffset
-71.4				0 Hz
Start 150 kHz	have an an an and a second and a	St	op 30.00 MHz	
#Res BW 10 kHz	#VBW 30 kHz*	Sweep 368.3 status J.D.		
Adlent Spectrum Analyzer Swept	AC SENSE IN	ALIGNAUTO 04:5 Avg Type: RMS	1531MDec 05, 2018 TRACE 1 2 3 4 5 6	Frequency
	IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 4/100 Mkr2 :	TYPE MUMMUM DET A A A A A A 25.688 GHz	Auto Tune
10 dB/div Ref 30.00 dB	m		30.040 dBm	Center Freq
20.0				13.015000000 GHz
				Start Freq 30.000000 MHz
-10.0			-1 3,00 dbin	Stop Freq
-20.0				26.000000000 GHz
-30.0		ma manual	umment ?	CF Step 2.59700000 GHz Auto Man
-40.0	and a second and a s		1	Freq Offset
-60.0				0 Hz
			op 26.00 GHz	
Start 30 MHz				

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Report No.: LCS181130007AEG

Aglient Spectrum Analyzer Swe Market RL RF 2094 Center Freq 79.500 k	DC sense init	AUGNAUTO 04:37 Avg Type: RMS Avg Hold: 8/100	7:17 PMDec 05, 2018 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 0ffset 8.58	IFGain:Low #Atten: 10 dB		123456 TYPE MAAAAAA DETAAAAAA 30.009 kHz 0.587 dBm	Auto Tune
-1.42				Center Freq 79.500 kHz
-31.4				Start Freq 9.000 kHz
-31.4			-42.00 (Bm	Stop Freq 150.000 kHz
-61.4				CF Step 14.100 kHz Auto Man
-71.4 Marting mary Martin	your my with many work my house	Marken wr When more way	rug the may with the	Freq Offset 0 Hz
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 kHz*	Sto Sweep 174.0 p		
Adjent Spectrum Analyzer Swer	DC Sense Init		7:22 PMDec 05, 2018	Frequency
10 dB/div Ref Offset 8.58	PNO: Fast Thg: Free Run IFGain:Low #Atten: 10 dB	Mkr1	2.687 MHz 1.645 dBm	Auto Tune
-1.42				Center Freq 15.075000 MHz
-31.4				Start Freq 150.000 kHz
-31.4			-39:00 df3m	Stop Freq 30.000000 MHz
-61.4				CF Step 2.985000 MHz Auto Man
				Freq Offset 0 Hz
Start 150 kHz	Mananan Malada Karal Jah Ulay Mundahara #VBW 30 KHZ*		op 30.00 MHz	-
		STATUS J. DC		
#Res BW 10 kHz Mile Adlent Spectrum Analyzer Swer WF RL WF 100 C Cepter Free 13 01500	AC SENSE:INT	ALIGNAUTO 04:37	7:251MDec 05, 2018 TRACE 1 2 3 4 5 4	Frequency
Adlent Spectrum Analyzer Swer Mark No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AL SENSE INT 00000 GHz PN0: Fast IFGain:Low #Atten: 40 dB	Mkr2 2	25.714 GHz 0.533 dBm	Frequency Auto Tune
Adlent Spectrum Analyzec Swaj Mark 1 1 1 1 20 2 Center Freq 13,01500	AL SENSE INT 00000 GHz PN0: Fast IFGain:Low #Atten: 40 dB	Mkr2 2	25.714 GHz	100.000
Adleri Spectrim Ansizzet - Son M. R.L	AL SENSE INT 00000 GHz PN0: Fast IFGain:Low #Atten: 40 dB	Mkr2 2	25.714 GHz	Auto Tune Center Freq
400 Adding Spectrum Analyser, Sove Center Freq 13,01500 Conter Freq 13,01500 10 dB/div Ref 30.00 dl 200 10 D	AL SENSE INT 00000 GHz PN0: Fast IFGain:Low #Atten: 40 dB	Mkr2 2	25.714 GHz	Auto Tune Center Freq 13.01500000 GHz Start Freq
uncl         Adjent Spectrum Analyzer         Seven           Bit RL         me         3000           Center Freq 13,01500         me         300           10         me         300           100         me         100           100         me         100	AL SENSE INT 00000 GHz PN0: Fast IFGain:Low #Atten: 40 dB	Mkr2 2 -3	-1300 dBm	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq
Addim Spectrum Analyzer _ Sove Bill RL _ we _ 3000 Center Freq 13,01500 Conter Freq 13,01500 Ref Offset 7.56 20.0	AL SENSE INT 00000 GHz PN0: Fast IFGain:Low #Atten: 40 dB	Mkr2 2	-1300 dBm	Auto Tune Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz CF Step 2.59700000 GHz

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Center Freq 0.500 Mi2       Description       Mail Tree Bins       Mail Tree Bins       Prequency         Auto Turis       Auto Turis       Auto Turis       Auto Turis         Center Freq 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Center Freq 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Center Freq 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2         Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2       Store 0.500 Mi2		of Source			_	aph(s	) (Ch	annel	Ban	dwidt	h: 3 N	1Hz)_L	.CH_Q	PSK
Mikri 12, 20,7 Hzz     Auto Ture       14     -93,786 dBm     -93,786 dBm       14     -93,786 dBm     -93,786 dBm       14     -93,786 dBm     -93,786 dBm       14     -94,786 dBm     -93,786 dBm       14     -94,786 dBm     -93,786 dBm       14     -94,786 dBm     -94,786 dBm       14     -94,786 dBm     -94,786 dBm       14     -94,786 dBm     -96,786 dBm       14     -94,786 dBm     -96,986 dBm       150,000 MHz     -97,964 dBm       160     -97,964 dBm       161     -97,964 dBm       162     -98,900 dBm	B MA B		RE	TO O AL	47	1	12	SENSE:IN	1	Avg Type	RMS	04:37:39 P TRA	MDec 05, 2018	Frequency
Program Performant and all and an and all and		10/11			P	NO: Wide Gain:Low	#Ati	: Free Run en: 22 dB	,	Avg Hold:				Auto Tupe
14       14       14       14       14       15 <td< td=""><td>10 d</td><td>B/div</td><td>Ref Offs Ref 8.5</td><td>set 8.68 o 58 dBm</td><td>dB</td><td></td><td></td><td></td><td></td><td></td><td>IV</td><td>-63.7</td><td>807 kHz 58 dBm</td><td></td></td<>	10 d	B/div	Ref Offs Ref 8.5	set 8.68 o 58 dBm	dB						IV	-63.7	807 kHz 58 dBm	
31-     31- <td>135</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	135	-	-									-		
31       41       40 <td< td=""><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	100													
All a     All a     All a     All a     All a       All a     All a     All a     All a     All a       All a     All a     All a     All a     All a       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit i     Bit i     Bit i     Bit i     Bit i       Bit i     Bit	1.1	-								_				
Auto Tune Provide Source And Autor Comparison Compared to the source of													-43.00 dBm	CF Step
Main       Bit VEW 3.0 kHz*       Sweep 17.0 min (Do Couldot         Main       Main       Description       Prequency         Main       Main       Main       Description       Prequency         Main       Main       Main       Description       Prequency         Main       Ref 75.30 dis       Min       -57.644 dBm       Auto Tune         10       Genter Freq       -57.644 dBm       Center Freq       -57.644 dBm       Center Freq         114	-61.4	Anna.							_	_	_			<u>Auto</u> Man
Main       Main       Bit State	102	- IVA	and the second	rtruniy-ing-	YAMAN	muhum	nawnp	MM MM	whyny	www.htu	AMAM	mightant	No Matura M	
wm       wm/with the constraint of the const	Star #Re													
Mater Tree 15:075000 MHz     Tig Free Run Ref Office 8.86 dB     Avg Type RU0 Mater 10 dB     Mile Tig Free Run Avg Type RU0 States 10 dB     Frequency       Prequency     Ref Office 8.86 dB     Mkr1 2.622 MHz     Auto Tune 57.544 dBm       142	teredite.		or a come	_		2102 -								
Bet Office & 8.69 dB     Mkr1 2.7.642 dBm       142	DX/ R	L	RH-	50 9 AL	O MHZ	1	1.1.5	SENSE: IN		Avg Type	RMS	04:37:44 P TRA	MDec 05, 2018	Frequency
Log 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4					1F	NO: Fast Gain:Low	#At	: Free Run en: 10 dB		Avg Hold:				Auto Tune
31.4	134					-								Center Freq
31 4       300000 MHz         41 4       300000 MHz         51 4       300000 MHz         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         41 4       31 4         31 4       31 4         31 4       31 4         31 4       31 4         31 4       31 4         31 4       31 4         31 4       31 4         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5         31 5       31 5														
414	122	_									-		-39:00 dlan	
61.4       2.38500 MHz         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         61.4       1.4         7.4       1.4         <	-41-4													
0 Hz       0 Hz         0 Hz       0 Hz         0 Hz       Start 150 kHz         #res BW 10 kHz       #VBW 30 kHz*         Sweep 368.3 ms (100 Hz)       Image: Sweep 368.3 ms (100 Hz)         Image: Sweep 368.3 ms (100 Hz)       Image: Sweep 368.3 ms (100 Hz)         Centor Freq 13.015000000 PHz       Image: Sweep 368.3 ms (100 Hz)         Centor Freq 13.015000000 Bm       Image: Sweep 368.3 ms (100 Hz)         0 dB/div       PHO: Fort         10 dB/div       Ref 0fiset 7.96 dB         30 dB/div       Ref 0fiset 7.96 dB         30 dB/div       Ref 30.00 dBm         10 dB/div       Ref 30.00 dBm         1			•											2.985000 MHz
Market Australia Australi		Hara	h	dista.									10.000	
Affect BW 10 kHz         #VBW 30 kHz*         Sweep 388.3 ms (1001 pts)           wro         intravial DC Coupled           Adjoint Spectrom Andrew 5 weep 308.3 ms (1001 pts)         intravial DC Coupled           Adjoint Spectrom Andrew 5 weep 308.3 ms (1001 pts)         intravial DC Coupled           Adjoint Spectrom Andrew 5 weep 308.3 ms (1001 pts)         intravial DC Coupled           Adjoint Spectrom Andrew 5 weep 308.3 ms (1001 pts)         intravial DC Coupled           Center Freq 13.01500000 GHz         intravial DC Coupled           PHO freet 7.89 dB         Mkr2 25.714 GHz           100 dB/div         Ref 0ffset 7.89 dB           300         intravial DC Coupled           100 dB/div         Ref 30.00 dBm           100 dB/div         Ref 30.00 dBm           100 dB/div         intravial DC Coupled           100 dB/div         Ref 30.00 dBm           100 dB/div         intravial DC Coupled           100 dB/div         intravial DC Coupled           100 dB/div         Ref 30.00 dBm           100 dB/div         intravial DC Coupled           100 dB/div         intravial DC Coupled <td>-61.4</td> <td>1.000</td> <td>When</td> <td>John of Low</td> <td>Martha Marthall</td> <td>absorbed</td> <td>mandia</td> <td>minute</td> <td>ton with out</td> <td>Helenestere</td> <td>hipelyndratio</td> <td>dormanata</td> <td>www.</td> <td></td>	-61.4	1.000	When	John of Low	Martha Marthall	absorbed	mandia	minute	ton with out	Helenestere	hipelyndratio	dormanata	www.	
Adjent Spectrum Analyzer       Swept SA (a) RL       StepE(p)       Ald Staulton (b) Center Freq 13.015000000 GHz       Frequency         Center Freq 13.015000000 GHz       Trip: Free Run PROF Least (b) Center Freq 13.000 dBm       Trip: Free Run PROF Least (b) Center Freq 13.000 dBm       Avg Type: RMS (b) Center Freq 13.0150000000 GHz       Frequency         0 dB/dlv       Ref Offset 7.98 dB (b) dB/dlv       Mkr2 25.714 GHz (c) S       GHz (c) S       Auto Tune         0 dB/dlv       Ref Offset 7.98 dB (c) S       Center Freq 13.015000000 GHz       Stop 7 Freq 26.0000000 GHz       Stop 7 Freq 26.00000000 GHz         0 dB/dlv       Image: Run Ref Offset 7.98 dB (c) S       Image: Run Ref Offset 7.98 dB (c) S       Stop 7 Freq 26.00000000 GHz       Stop 7 Freq 26.00000000 GHz         0 dD (d) dD (d	Star #Re	rt 150 i s BW	kHz 10 kHz			#VE	3W 30 H	Hz*		5		68.3 ms	(1001 pts)	
Image: Context Freq 13.015000000 GHz       Trig: Freq Name       Avg type: RMs       Prec (13.015000000 GHz)       Frequency         Avg type: RMs       Mkr2 25.714 GHz       Auto Tune         10 dB/ddv       Ref Offset 7.38 dB       Mkr2 25.714 GHz       Auto Tune         20 g		nt Spectru	um Analyze	r Swept	SA.						STATUS	DC Co	upled	_
IFGainLow         Akter: 40 dB         Mkr2 25.714 GHz -30.105 dBm         Auto Tune           10 dB/div         Ref 30.00 dBm         Mkr2 25.714 GHz -30.105 dBm         Center Freq 13.01500000 GHz           10 d         1	LX/ R	L	RF.	50 Q I	0000 0		Tris	SENSE:IN		Avg Type Avg Hold:	RMS	04:37:47 P TRA	MDec 05, 2018 CE 1 2 3 4 5 6 PE MW////////////////////////////////////	Frequency
200         Center Freq           100         1           000         Start Freq           000	10 d	B/div	Ref Offs Ref 30	et 7.98 d		Gain:Low	#At	en: 40 dB				kr2 25.7	14 GHz	Auto Tune
000         100         13000000 MHz         30.000000 MHz           200         1300000 GHz         20.000000 GHz         Stop Freq           000         000         000         000         Freq Offset           000         000         000         000         000           5tart 30 MHz         Stop 26.00 GHz         Freq Offset	1.5					-								
10.0	1 C.	Ŷ	×1										1	
20.0 30.0 40.0 60.0 55tart 30 MHz Stop 26.00 GHz											1			
600         Freq Offset           600         0 Hz           Start 30 MHz         Stop 26.00 GHz							1						-13,00 dfwn	26.000000000 GHz
600         Freq Offset           600         0 Hz           Start 30 MHz         Stop 26.00 GHz	C.**								-	way have	حيسهمسعن	and a start and a start and a start a s	m	CF Step 2.59700000 GHz Auto Man
60.0 Start 30 MHz Stop 26.00 GHz		y warment	and and the features			and the second							10	Freq Offset
Start 30 MHz Stop 26.00 GHz	-60.0		-				-					-		
	Sta	1 30 M	Hz		-					-		Stop 2	6.00 GHz	

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_	Agile	ant Spectru	n Analyzer - S			(Chanr				04:38:17 PA	1Dec 05, 2018	
	Cer	nter Fre	q 79.50	kHz	PNO: Wide -+ FGain:Low	Trig: Free	Run	Avg Type Avg Hold	8/100	TRAC	E 123456 E MMMMMMM T A A A A A A	Frequency
	10 0	dB/div	Ref Offset		FGain:Low	#Atten: 2:	2 dB			kr1 10.2	269 kHz 16 dBm	Auto Tune
	-1.42	11.7		111								Center Freq 79.500 kHz
	-11.2	11.000										Start Freq 9.000 kHz
	-31.4	4										Stop Freq 150.000 kHz
	-41.4	4									-43.00 dBm	CF Step 14.100 kHz
	-61.4	More.		-			_			_		<u>Auto</u> Man
	-71.4	4 <u>* 1</u> 1	Munder	Applychan	Mar Mar	hanna	A. Alanda	n MAMAA.	rd . Althe satisf	Mr. An AM. A	መለሻስ አካላለስ	Freq Offset 0 Hz
	Sta					V 3.0 KHZ*	A					
	MSG	es BW 1	n Analyzer - S	went SA	#767	V 5.0 KH2	_	_	Sweep 1	DC Cou		
	R.MA F	RL	RF 50	5000 MH		Ser Televiti	use:Initi	Avg Type Avg[Hold	ALIGNAUTO	04:38:22 PA	1Dec 05, 2018 1 2 3 4 5 6	Frequency
	-		Ref Offset	1.68 dB	PNO: Fast	#Atten: 10	dB	AvgiHold		1kr1 2.6	57 MHz 04 dBm	Auto Tune
	-1 43	11.7										Center Freq 15.075000 MHz
	-11.2	10.000										Start Freq 150.000 kHz
	-21 4	1.1									10,00-0	-
	-31.4						-				-39:00 dilim	Stop Freq 30.000000 MHz
	-61 4	4	•									CF Step 2.985000 MHz Auto Man
	-61.4	Junterent	4									Freq Offset 0 Hz
	-61.4	à	Whichweight	arightalland	urthurst states little	under shaden	Angler Markelde	-kipper Wordlampor	Hereingelen verste	Veryderyddanae	N/Modie-V-Sperio	
	Sta #Re	es BW 1	HZ 0 KHZ	-	#VBV	V 30 kHz*			Sweep 3			
	Agile	ant Spectru	n Analyzer - S	wept SA		1.000	WE DUT					
	Cer	nter Fre	q 13.01	5000000	GHz PNO: Fast -> FGain:Low	Trig: Free #Atten: 40	Run	Avg Type Avg Hold	: RMS : 4/100	TRAC	1Dec 05, 2018 E 1 2 3 4 5 6 E Mutanation T A A A A A A	Frequency
	10 g	B/div	Ref Offset						м	kr2 26.0		Auto Tune
	20.0	1.0	-	1					_			Center Freq 13.015000000 GHz
	10.0	ΙY	1									Start Freq 30.000000 MHz
	-10.0		_	_	_						-1 3,00 dtain	Stop Freq
	-20.0										2	26.00000000 GHz CF Step 2.597000000 GHz
	-40.0		- Anno	-	manner	January Spensor Alter		man		and the second	and brand and	2.597000000 GHz <u>Auto</u> Man
	-50.0	1.1										Freq Offset 0 Hz
	-60.0	12	11.22		1.200		i		i	2	1.000	
		rt 30 MI							Sweep 6			

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		CSE	Test G	Graph(s)	(Chann	nel Ba	ndwidtl	h: 3 M	Hz)_H	CH_Q	PSK
8.364 F	RL	Im Analyzer	50 9 A DC	1-	SEN	SE:INT]		LIGNAUTO	04:38:53 0	4Dec 05, 2018	Frequency
Ce	nter Fr	eq 79.5	00 kHz	PNO: Wide - IFGain:Low	#Atten: 22	Run dB	Avg Type: Avg Hold:			E 123456 E Mutanana A A A A A A	255 ( 200
10 4	dB/div	Ref Offse Ref 8.5	t 8.68 dB 3 dBm						Mkr1 9.0 -64.0	000 kHz 02 dBm	Auto Tune
13	10.00		111-	-							Center Freq
-1.45	10.00										79.500 kHz
-11.4	1.0		101								Start Freq 9.000 kHz
-21 -		1	111								9.000 KH2
-31.4											Stop Freq 150.000 kHz
-41.2										-43.00 dBm	CE Step
-61.•											CF Step 14.100 kHz Auto Man
-61.4	MANIA	A A B	U.L.	11	1.1			1			FreqOffset
-71	1	. A.M. W. WAR	han www.	MMMMMM	Marcall	A	A. A. A. A				0 Hz
-81.4	4	2.4		MANNAM	illet as here id	A hereway	Asta Mussel a	MAN ANY	W. W	Mann	
Sta #Re	es BW	kHz 1.0 kHz		#VB	W 3.0 KHz*					0.00 kHz 1001 pts)	
MSQ								STATUS	DC Cou	pled	
2 384 5	RL	RF 15.0	Swept SA 50 9 (A) De 75000 M	Hz	53BR	se ini (	Avg Type	RMS	04:38:58 Pf TRAC	4Dec 05,2018	Frequency
				PNO: Fast - IFGain:Low	#Atten: 10	Run dB	Avg Hold:	8/100		E 123456	Auto Tune
10.0	dB/div	Ref Offse Ref 8.5	t 8.58 dB 8 dBm				· · · · ·	N	-60.9	28 MHz 56 dBm	, and there
-1.45	10.00		LI II T		1	-		-			Center Freq 15.075000 MHz
41.2	10.00	1	1						-		13.07 5000 14112
-21.4	1.0										Start Freq 150.000 kHz
-31.2			i pi e					1	11.1	10.00 diam	
-41.8										-33.00 df <del>an</del>	Stop Freq 30.000000 MHz
-61 -	11.000										CF Step
-61.4	100.0	•									2.985000 MHz Auto Man
-71.4	1.1 . 1.	A		-el 12-1							Freq Offset
-81.4	a Warner	W 1 A		and and a				10.4		1.1	0 Hz
	1	and a second second	ull'articly super-	yninmennin	kalinder with the second	early Moserger 1993	approximation and a second	enternet of the second of the		and the second second	
#Re	es BW	KHZ 10 KHZ		#VB	W 30 kHz*		8		68.3 ms (	0.00 MHz 1001 pts)	
MSG		ım Analyzer	Sugar 54					STATUS	DC Cou	pled	
8.3KA F	RL	RE	1500000	0 GHz	The second second	se:inir]	Avg Type: Avg]Hold:	RMS	04:39:01 M TRAC	4Dec 05, 2018 1 2 3 4 5 6 1 A A A A A A	Frequency
1				PNO: Fast - IFGain:Low	#Atten: 40	dB				62 GHz	
100	dB/div	Ref Offse Ref 30.	00 dBm	-	-	_			-30.4	88 dBm	
220.0	0				-	_		_	_		Center Freq 13.015000000 GHz
103	0	1		_	_	_		_	-		
0.00	0	-			_			_	_		Start Freq 30.000000 MHz
-10.0	σ	-		_		_				-1 3,00 dbin	Stop Freq
-20.0	a										26.00000000 GHz
-30.0	o									ě	CF Step 2.597000000 GHz
-40.0	0	many	man	man and	hermon	mitremen		alter and the	winner	mound	Auto Man
-50.0	man							1.1.1	2		Freq Offset
	1.0	-									0 Hz
-60.0	0				_				-		
-60.0	art 30 M		di di second	1						6.00 GHz	

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Report No.: LCS181130007AEG

1.00	RL	pectrur	n Analy	yzer Sv	vept SA			•	-] - 925 R	REINT		.ai	IGNAUTO	0432551	CH_16	1
Ce	ente	er Fre	q 79	9.500	kHz	Ph	IO: Wide Sain:Low	- Tr	ig: Free tten: 10	Run	Avg	Type: Hold: 8	RMS /100	TRA	CE 123456 PE MMMMMM ET A A A A A A	Frequency
10	dB/d	div	Ref O	ffset 8 8.58 d	.68 dB		sameow						M		332 kHz 13 dBm	
-1.4	ć) h	-			111								_			Center Free 79.500 kH
41													_			Start Free 9.000 kH
-21																Stop Free
-41	4	_	-	_	-	_		-	_	_	-	_			-43.00 dBm	150.000 kH
-61	212															CF Step 14.100 kH Auto Mar
.71		+1								0.05						Freq Offse 0 H
-81	4	gywryd	Amy	hur	AL-MAA	naliq	Antym	WWW	Aran I.	WMAN	Arve	prindu	Lillyrady,	Mannaha	. And have	
#R	tes l	9.00 H BW 1	Hz 0 kH	Iz			#VE	W 3.0	kHz*			s		74.0 ms	50.00 kHz (1001 pts)	
Agi		pectrur	n Anal	yzer Sv	vept SA				(27%	SE-INV		34	(ca14) (TC)-	DC Co	MDec 05, 2018	1
		er Fre	q 1	5.075	000 N		NO: Fast Saln:Low	+ Tr #A	ig: Free tten: 10	Run dB	Avg	Type: Hold: 8	RMS /100	TRA	ET A A A A A A	Frequency Auto Ture
18	dB/d	div	Ref 0	ffset 8 8.58 d	68 dB	-	-	_		_	-	_	_	Mkr1 -65.4	657 kHz 30 dBm	
-1.4	42	÷	+		1	-			-							Center Free 15.075000 MH
-11																Start Free 150.000 kH
-31	2.														-39:00-df%n	Stop Free
-41	4	-	-	-	-	-			-	-		-				30.000000 MH
-61	1.1	1														CF Ster 2.985000 MH Auto Mar
-71	7	whigh	1												10.000	Freq Offse
-81	.4		Had	4. And Mar	WYEN	algoritana	MARCHURA	-Wayant	le-religion	An Martin	Manno	www	numanyahi NA.	المعربية	1.00 MHz	
#R	tes l	150 k BW 1	Hz 0 KH		1.			W 30			1		weep 3	68.3 ms	(1001 pts)	
Agil	lent S	pectrur	n Analy	yzer Sv	vept SA		-						STATUS	DC Co		1.
Ce	ente	er Fre	q 1:	3.015	0000	DO G	Hz NO: Fast Sain:Low	- Tr #A	ig: Free tten: 40	Run dB	Avg	Type: Hold: 4			MDec 05, 2018 CE 1 2 3 4 5 6 PE MMMMMMM ET A A A A A A	
18	dB/d	div	Ref O	ffset 7 30.00	98 dB dBm	-		-		_	-	_	м	-30.7	36 GHz 41 dBm	
20	0.0	-				-			-				_			Center Free 13.015000000 GH:
10		Ŷ	1										-			Start Free 30.000000 MH
-10															-13,00 dtsin	Stop Free
-20	o.a		-			-			_						3	26.000000000 GH
-30	11		-									romenter	معدماتهم	-	minut	CF Step 2.597000000 GH Auto Mar
-50	1	- ale and		hand			windows	une manuar	aler to an			-			-	Freq Offse
-60	xa -	÷	+		-							-		-		
	- H.		tz					_							26.00 GHz (1001 pts)	4

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Report No.: LCS181130007AEG

LW RL		n Analyzer - S ⊮⊨ = 50 9 79.500	9 ADC	1	SBN.	se:My]	Avg Type Avg[Hold:		04:38:32.04 TRAC	MDec 05, 2018	Frequency
10 de		Ref Offset 8		PNO: Wide -+ IFGain:Low	Trig: Free #Atten: 10	Run dB	Avg Hold:		kr1 15.	345 kHz 92 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										-43 00 (Bm	CF Step 14.100 kHz Auto Man
-61.4	•										FreqOffset
-81.4	44 Aus	wheel when	n Mala hay	ManyAmpa	Mundant	why the	within	s hours	poprogram	Manganga	0 Hz
Star #Res	t 9.00 k s BW 1.	Hz 0 kHz		#VBI	V 3.0 KHz*					50.00 kHz 1001 pts) upled	
DV RL		Analyzer SE SO	SOOO MH	z	sen	se:m)	Avg Type Avg[Hold:	I IGNAUTO	04:38:38.14 TRAC	MDec 05, 2018 TE 1 2 3 4 5 6 PE MWAAWAAA ET A A A A A A	Frequency
		Ref Offset 8		PNO: Fast IFGaIn:Low	#Atten: 10	Run dB	Avg Hold:		1kr1 2.6	28 MHz 61 dBm	Auto Tune
10 de Log				-							Center Freq 15.075000 MHz
-11.4											Start Freq 150.000 kHz
-31.4								<u> </u>		-39.00 dBm	Stop Freq 30.000000 MHz
-41.4											CF Step 2.985000 MHz
-61.4	ar, Ar, Alan						_				Auto Man Freq Offset
-71.4	4roAndlul ht	Whyhatel	Maryan	and the second second	whentheresting	une drawne dr		ant when an and the last	manunale	preservation base	0 Hz
#Res	t 150 kl s BW 10	Hz	- ld 998.114	-	V 30 KHZ*	an charde bhai		Sweep 3	Stop 3 68.3 ms (	0.00 MHz 1001 pts)	
		n Analyzer - S RF (50			SEA	KE;INT		N IGALAUTED	DC Cou	MDec 05, 2018	Frequency
		Ref Offset 7		GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:			88 GHz 23 dBm	Auto Tune
10 de Log	B/div	Ref 30.00	) dBm		-				-30.8	23 aBm	Center Freq 13.015000000 GHz
10.0	- Q	,									Start Freq
-10.0										-1 3,00 dbin	30.000000 MHz Stop Freg
-20.0								-		2	26.00000000 GHz
-30.0				man		and a start of the	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ann an ann th	ann	marine	CF Step 2.597000000 GHz <u>Auto</u> Man
-40.0	man aller								1 2 L L		Freq Offset
-40.0 -50.0 -60.0	A STATE OF STATE										0 Hz

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Report No.: LCS181130007AEG

2,364 - 1	RL	Analyzer Sw 9F 90 9 q 79.500	ADC-	i	seru	se:INT]	Avg Type Avg Hold:	RMS	04:39:09 PA	1Dec 05, 2018 1 2 3 4 5 6	Frequency
	F	q 79.500 Ref Offset 8. Ref 8.58 d	P	NO: Wide -+ Gain:Low	Trig: Free #Atten: 10	Run dB	Avg Hold:		kr1 10.2	269 kHz	Auto Tune
10 c Log		Ref 8.58 d	Bm					-	-73.4	03 dBm	Center Freq
41.5	10.00										79.500 kHz Start Freq
-21 -											9.000 kHz
-31.4	4									-43.00 dBm	Stop Freq 150.000 kHz
-61.4	4										CF Step 14.100 kHz
-61.4	4				_						Auto Man Freq Offset
-71.4	Marthona	ANT ANA	Maymon	wannya	m n had had	Mar May	w Ann	w/mymmmal	Maryma	Munhan	0 Hz
Sta #P	art 9.00 kl es BW 1.	Hz 0 kHz	1.0	#VBW	3.0 kHz*			ween 1	Stop 15 74.0 ms (	0.00 kHz	
MSG		Analyzer - Sw	ept SA						DC Cou		
1.364 F	RL	q 15.075	000 MHz	NO: Fast -+	Trig: Free	Bun	Avg Type Avg]Hold:	RMS 8/100	04:39:1414 TRAC TYP	1Dec 05, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
10 0	iB/div F	Ref Offset 8. Ref 8.58 d	58 dB	Gain:Low	#Atten: 10	aB		N	1kr1 2.5	68 MHz 91 dBm	Auto Tune
-1.45	10.00		11	-	-				_		Center Freq 15.075000 MHz
414	10.000										Start Freq 150,000 kHz
-31.4										-39.00 diten	Stop Freq
-41-2		_									30.000000 MHz
-61		1									CF Step 2.985000 MHz Auto Man
-61.4	Anny	A									Freq Offset 0 Hz
-81.4	4	10.6	Multin with	when when when the hope	whitehout	alpuriturent-receite	un the state of th	untermalist	horman to day of	han an a	0112
Sta	rt 150 kH	Iz	1		30 kHz*			1777 A. A.		0.00 MHz 1001 pts)	
#PEC	es BW 10	2 NULL							A COLUMN TO A		
MSG	es BW 10	Analyzer Sw	ept SA		- JON	SE INT		STATUS	DC Cou		- Barton Commen
Agile	es BW 10 ent Spectrum RL   nter Free	Anelyzer Sw ≋⊨ 150 s q 13.015	000000 0	SHz NO: Fast →► Galn:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	STATUS LIGNAUTO RMS 4/100	D4:30:17 FM TRAC TVF D6	1Dec 05, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
Agile Bar Cer	es BW 10 ent Spectrum RL   nter Free	Analyzer Sw	000000 0	NO: Fast -	Trig: Free #Atten: 40	66:JNT Run dB	Avg Type Avg Hold:	STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	1Dec 05, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Auto Tune
	es BW 10	Analyzer Sw PF 2005 q 13.015 Ref Offset 7: Ref 30.00	000000 0	NO: Fast -	SEN Trig: Free #Atten: 40	se:ini Run dB	Avg Type Avg Hold:	STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	10e: 05,2018 = 1 2 3 4 5 6 = 1 4 4 4 4 4 T 4 4 4 4 4 4 10 GHz	100.00
Aglis 20 F	es BW 10	Analyzer Sw PF 2005 q 13.015 Ref Offset 7: Ref 30.00	000000 0	NO: Fast -	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	10e: 05,2018 = 1 2 3 4 5 6 = 1 4 4 4 4 4 T 4 4 4 4 4 4 10 GHz	Auto Tune Center Freq
	es BW 10 nt Spectrum RL dB/div F	Analyzer Sw PF 2005 q 13.015 Ref Offset 7: Ref 30.00	000000 0	NO: Fast -	Trig:Free #Atten: 40	SEINT	Avg Type Avg Hold	STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	10e: 05,2018 = 1 2 3 4 5 6 = 1 4 4 4 4 4 T 4 4 4 4 4 4 10 GHz	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.00000 MHz Stop Freq
400 Activ 201 201 201 101 000 -101 -201	A Construction of the second s	Analyzer Sw PF 2005 q 13.015 Ref Offset 7: Ref 30.00	000000 0	NO: Fast -	Strig: Free SAtten: 40	Run dB	Avg Type Avg Hold:	STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	10e: 05,2018 = 1 2 3 4 5 6 = 1 4 4 4 4 4 T 4 4 4 4 4 4 10 GHz	Auto Tune Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz
400 Activ 201 201 10.1 -10.0	es BW 10 nt Spectrum nt or Free dB/div F	Analyzer Sw PF 2005 q 13.015 Ref Offset 7: Ref 30.00	000000 0	NO: Fast -	Stra	Run dB	Avg Type Avg Hold:	STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	10e: 05,2018 = 1 2 3 4 5 6 = 1 4 4 4 4 4 T 4 4 4 4 4 4 10 GHz	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.00000 MHz Stop Freq
400 Activ 201 201 18.0 -10.0 -20.0 -20.0		Analyzer Sw PF 2005 q 13.015 Ref Offset 7: Ref 30.00	000000 0	NO: Fast -	Trig: Free #Atten: 40	Run dB		STATUS LIGNAUTO RMS 4/100	104:30:17 IM TRAC TVF DE kr2 25.6	10e: 05,2018 = 1 2 3 4 5 6 = 1 4 4 4 4 4 T 4 4 4 4 4 4 10 GHz	Auto Tune Center Freq 13.01500000 GHz Start Freq 30.000000 MHz 25.00000000 GHz 2.597000000 GHz

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Alixed Spectrum Analyser, Sweap 5A     1000000000000000000000000000000000000
Order     Beroffset 8.65 dB     Mkr1 11.266 kHz     Auto Tune       142
Log     I.42     Center Freq       1.42     III.4     III.4       11.4     III.6       11.4     IIII.6       11.4     IIIII.6       11.4     IIII.6       11.4     IIIII.6       11.4     IIIIIIIIII.6
31.4     31.4     31.4     31.4     31.4     31.4     31.4     31.4     31.4     31.6     30.00 kHz     Stop Freq     30.00 kHz       31.4     3
41.4         41.4 <td< td=""></td<>
514     Image: Start 5.00 kHz     Image: Start 5.00 kHz     Image: Start 5.00 kHz     Image: Start 5.00 kHz       Start 5.00 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       #Res BW 1.0 kHz     #VBW 3.0 kHz*     Stop 150.00 kHz       Genter Freq 15.075000 MHz     Stop 150.00 kHz     Auto Tune       10 dstatv     Ref 0% stop 8.68 dB     Mkr.1 3.404 MHz       142     Image: Stop 150.00 kHz     Image: Stop 150.00 kHz       142     Image: Stop 150.00 kHz     Stop 150.00 kHz       143     Image: Stop 150.00 kHz     Stop 150.00 kHz       144     Image: Stop 150.00 kHz     Stop 150.00 kHz       144     Image: Stop 150.00 kHz     Stop 150.00 kHz       144     Image: Stop 150.00 kHz     Stop 15
61.4
#Res BW 1.0 kHz         #VBW 3.0 kHz*         Sweep 174.0 ms (1001 pts)           mini         internal 2 DC Coupled           Center Freq 15.07500 MHz         internal 2 DC Coupled           Ref Offset 8.58 dB         Frequency           142         internal 2 DC Coupled           142         internal 2 DC Coupled           142         internal 2 DC Coupled           143         internal 2 DC Coupled           144         internal 2 DC Coupled           144         internal 2 DC Coupled           144         internal 2 DC Coupled           internal 2 DC Coupled         internal 2 DC Coupled
#Res BW 1.0 kHz         #VBW 3.0 kHz*         Sweep 174.0 ms (1001 pts)           mini         internal 2 DC Coupled           Center Freq 15.07500 MHz         internal 2 DC Coupled           Ref Offset 8.58 dB         Frequency           142         internal 2 DC Coupled           142         internal 2 DC Coupled           142         internal 2 DC Coupled           143         internal 2 DC Coupled           144         internal 2 DC Coupled           144         internal 2 DC Coupled           144         internal 2 DC Coupled           internal 2 DC Coupled         internal 2 DC Coupled
Mile         Mile         Source         Source         Mile         Mile         Frequency         Frequency         Frequency         Augination         Frequency         Augination         Frequency         Auto Tune           100         Bioint yw         Mile         100         Frequency         Mile         3000000 MHz         Augination         <
Ref Offset 8.58 dBm         Mkr1 3.404 MHz -63.307 dBm         Auto Tune           142
142         Center Freq 15.075000 MHz           114         114           21.4         114           31.4         31.4
214         Start Freq 150.000 kHz           31.4         2200 dW           41.4         Stop Freq 30.000000 MHz           61.4         CF Step 2.985000 MHz
414 
.6).4 CF Step 2.985000 MHz A1
71.4 Junyard Freq Offset
-61.4
Start 150 kHz Stop 30.00 MHz Stop 30.00 MHz # #Res BW 10 kHz #VBW 30 kHz* Sweep 368.3 ms (1001 pts)
Adjeni Spectrum Analyzer Swept SA         Strike (P)         Adjeni Spectrum Analyzer Swept SA           Mr. R.L.         ***         \$50 ° #C         Strike (P)         Adjeni Spectrum Analyzer Swept SA           Conter Freq 13.015000000 GHz         Frequency         Arg Type: RMS         Trace [12:3:4:5:6]         Frequency           PR0: Fost + Freq V3.018         Frequency         Adjeni di Bino         Tred (MAXWAW         Frequency
Prior Date
2010 Center Freq 13.015000000 GHz
100 01 Start Freq 30.00000 MHz
-10.0
200 000 CF Step 2.59700000 GHz
40.0 FreqOffset
600 OH2
Start 30 MHz         Stop 26.00 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz*         Sweep 64.93 ms (1001 pts)

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0 Report No.: LCS181130007AEG

AND	ept SA ALDC	1		ig: Free Ru	nir]	Avg Type Avg Hold:	ALIGN OFF	10:27:40.4 TRA	M Dec 08, 2018 CE 1 2 3 4 5 6 PE MWAAAAAA DET A A A A A A	Frequency
		PNO: Wide IFGain:Lov	e → Ti w #/	rig: Free Ru Atten: 28 dE		walking:		Mkr1 9.	564 kHz 73 dBm	
	H									Center Freq 79.500 kHz
										Start Freq 9.000 kHz
					_					Stop Freq 150.000 kHz
									-43.00 (Bin	CF Step 14.100 kHz
An	Mr.MA	Annale				1	1.12			Auto Man Freq Offset
W.	A. Alex	ar Waxing	William	www.	WWW	Winny	Manna	MANNA	A-grouped back	0 Hz
-	1		/BW 3.0	121			Sweep 1	Stop 1	50.00 kHz (1001 pts)	
AL	ept SA	7	-1	service;	MT]	Avg Type Avg Hold:		10:27:47.6	M Dec 08, 2018	Frequency
58 6	58 dB Bm	Z PNO: Fasi IFGain:Lov	₩ #/	rig: Free Ru Atten: 10 dE	in 3	Avg Hold:		Akr1 3.4	404 MHz 55 dBm	100.0
		-								Center Freq 15.075000 MHz
			-							Start Freq 150.000 kHz
									-33:00-dfsm	Stop Freq
										30.000000 MHz
-			_	_		_				2.985000 MHz Auto Man Freq Offset
W.	Hunsbelner	Munchen	Marriander	Swindow certo	where the	and the state of the	in the second	halling (NMAsan)	where a feature for	0 Hz
		Value	/BW 30		and a second		The second second	Stop 3	30.00 MHz (1001 pts)	
apt :	ept SA			SENSE:	NT .	4		DC Co	LAKE 2	
		GHz PNO: Fast IFGain:Lov	TI	rig: Free Ru Atten: 40 dE	in 3	Avg Type Avg Hold:			M Dec 08, 2018 CE 1 2 3 4 5 6 PE MUMUUU ST A A A A A A 714 GHz	
B	98 dB dBm	-	-			-		-31.3	99 dBm	Center Freq
			_							13.015000000 GHz Start Freq
										30.000000 MHz
									-13,00 dbm	Stop Freq 26.00000000 GHz
					~~~~			-	m	CF Step 2.597000000 GHz Auto Man
	have									the sector sector a
-		and the second					-			Freq Offset 0 Hz

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IN BI	pectrum Analyzer Swep ≋⊧ 509.00 er Freq 79.500 k		sense:inir]	Avg Type: I Avg Hold: 9	IGN OFF 110	0:28:20 AM Dec 08, 2011 TRACE 1 2 3 4 5 TYPE MWAAAAA DET A A A A A	Frequency
	Ref Offset 8.58	PNO: Wide IFGain:Low	Trig: Free Run #Atten: 28 dB	Avg]Hold: 9.	Mkr	1 10.269 kH: -59.211 dBn	Auto Tune
10 dB/d -1 42							Center Freq 79.500 kHz
-11.4							Start Freq 9.000 kHz
-31.4							Stop Freq 150.000 kHz
-41 4	1					-43.00 dB	CF Step 14.100 kHz
-61.4 M	Waygan Munya man	LAG. 4				1	
-71.4	•	www.ananwalt.wy.my	hannamanally	www.when	WWWWWW	www.www.	0 Hz
Start	9.00 kHz BW 1.0 kHz		3.0 kHz*		S weep 174.	top 150.00 kH; 0 ms (1001 pts	
BI BI	pectrum Analyzer Swep	DE	SENSE; MT	A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.		DC Coupled	Frequency
	Ref Offset 8.58	PNO: Fast	Trig: Free Run #Atten: 10 dB	Avg Type: I Avg Hold: 9		1 3.404 MH -65.343 dBn	X
10 dB/	div Ref 8.58 dB	n				-65.343 dBn	Center Freq 15.075000 MHz
-11.4							Start Freq
-31.4						-39:00-dfa	150.000 kHz Stop Freq
-41.4							30.000000 MHz CF Step
-61.4							2.985000 MHz Auto Man
-71.4 -61.4	And		a fatali al deservicio e com		the close to the close	A 464 AL 10 - 1	Freq Offset 0 Hz
Start #Res	150 KHz BW 10 KHz	umandahananganak #VBW	Table -	a particular de la composición de la co	5	Stop 30.00 MH: 3 ms (1001 pts	
MSG Aglient S	pectrum Analyzer Swep	I SA			STATUS 🛃	DC Coupled	-
	Ref Offset 7.98	PNO: Fast	SENSE:IN Trig: Free Run #Atten: 40 dB	Avg Type: I Avg]Hold: 6	Mkr2	2 25.688 GH: -31.492 dBn	Auto Tune
20 g B/	div Ref 30.00 de	sm				-01.452 GBI	Center Freq 13.015000000 GHz
10 million (10 mil	1						Start Freq
10.0 —						-	30.000000 MHz Stop Freq
10 0 0.00 -10 0						-1 3.00 dts	
0.00 -10.0 -20.0						-13,00 db	26.00000000 GHz
-10.0						-13.00 dts	26.000000000 GHz 26.000000000 GHz 2.597000000 GHz <u>Auto</u> Man
0.00		and recovered and show the second		property and the second se	na wata da gan		26.00000000 GHz

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LW RL	rum Analyzer S RF 50 req 79.500		i	sen	weinin]		ALIGN OFF	10:27:16 AM	4 Dac 08, 2018	Frequency
Center F		P	NO: Wide -+ Gain:Low	Trig: Free #Atten: 10	Run dB	Avg Type Avg Hold:			987 kHz	20573-00
10 dB/div	Ref Offset 8 Ref 8.58	e.68 dB dBm	-	_	-			-73.7	69 dBm	
-1.42										Center Freq 79.500 kHz
-11.4										Start Fred
-21.4										9.000 kHz
-31.4										Stop Freq 150.000 kHz
-41.4									-43.00 dBm	CF Step
-61.4	-	1.1.2.2.2								14.100 kHz Auto Man
-71.4				1.1			1			Freq Offset
-81.4	manunn	wall when	martinov	ya Mandalay	"yohr frag	Walk way	kilon-hapmus <sup>th</sup>	mayour	AND AND	
Start 9.00 #Res BW	0 kHz 1.0 kHz	1.	#VBW	3.0 kHz*			Sweep 1	Stop 15	50.00 kHz 1001 pts)	
MSO					-			DC Cou		
RL RL	req 15.07	SOOO MHZ	1	SER	ISE:INT(	Avg Type Avg Hold:	ALIGN OFF	10:27:21 AM	M Dec 08, 2018 TE 1 2 3 4 5 6 TE M WAAWAAA ST A A A A A A	Frequency
		Pi IFi	NO: Fast Gain:Low	#Atten: 10	Run dB	Avg Hold:		Akr1 3.4	04 MHz	
10 dB/div	Ref Offset 8 Ref 8.58	dBm	-	_	-			-66.5	87 dBm	
-1.42										Center Freq 15.075000 MHz
-11.4										Start Freq
-21.4										150.000 kHz
-31.4									-39.00 dBm	Stop Freq 30.000000 MHz
-61.4										CF Step
-61.4	1-	111111								2.985000 MHz <u>Auto</u> Man
-71 4 granthquill	when .	معتهياتول	(*************************************							Freq Offset
-61.4	- Shark	he have a second	Minsyl status when	1. Margling to general	ulrup Marsh	and the state of the	Newhyunalaw	antarahananan	alerson to the states	1
Start 150 #Res BW	kHz 10 kHz		#VRM	30 kHz*		1.1.1.1.1	Sween 3	Stop 3	0.00 MHz 1001 pts)	
MEG	18 0.14			24 HIE				DC Cou		
IN BI	reg 13.01	AL AL	Hz		ISE:INT]	Avg Type Avg Hold:	ALIGN OFF	10:27:25 AM	M Dec 08, 2018 TE 1 2 3 4 5 6 TE M WANNAWAY ST A A A A A A	Frequency
		IF.	Hz NO: Fast Gain:Low	#Atten: 40	Run dB	Avg Hold:			84 GHz	Auto Tune
10 dB/div	Ref Offset 7 Ref 30.00	dBm	-	_	-			-31.3	83 dBm	
20.0										Center Freq 13.015000000 GHz
10.0	¢'									Start Freq
0.00										30.000000 MHz
-10.0									-13,00 dt/m	Stop Freq 26.00000000 GHz
-30.0									2	CF Step 2.597000000 GHz
1900.00	m	Mar Maria Conta		and the second second	an mar		and the stand and the stand of the	man	mark	2.597000000 GHz Auto Man
1001	Mart Wart		and the constraints of	No. A.			1.00			Freq Offset
-40.0 -50.0					1					
-40.0										0 Hz

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Report No.: LCS181130007AEG

6.36	RL	spectrum er Fre	RE	50.9	ADC-	1		] saan	use:INT	Ava	ALT Type: R fold: 9/1	ION OFF	10:27:58.4 TRA	M Dec 08, 2018	Frequency
			Ref Offs			PNO: Wid IFGain:Lo	₩ #	rig: Free Atten: 10	Run dB	Aval	fold: 9/1		Mkr1 9.	564 kHz 60 dBm	Auto Tune
-	0 dB/	div I	Ref 8.	58 dE	3m	-	-			1			-74.0		Center Fred 79.500 kHz
	1.4	-				-									Start Fred
	21.4 — 31.4 —														9.000 kH2 Stop Fred
	41.4 51.4	-		_				- 1						-43.00 dBm	150.000 kHz CF Step
	51.4		-	_					-	_					14.100 kHa Auto Mar
-7 -6		n Mirpilis	MAM	hand	Mr. AMIN	1. Marinent	NUM	WWW	A Mark	an and the state	n.A.A.	MUMM	nound	Honnan	Freq Offset 0 Ha
S #	tart	9.00 k BW 1.	Hz		4.	10.00	/BW 3.	- 64 6705	lar a	m	v . v		Stop 1	50.00 kHz (1001 pts)	
A	silent S	Spectrum	Analyze	er Swe	pt SA			SER	USE:INT		ALL ALL		DC Co		
C	ente					Z PNO: Fas IFGain:Lo	J	rig: Free Atten: 10	Run dB	Avg	Type: R fold: 9/1			M Dec 08, 2018 CE 1 2 3 4 5 6 PE M M M M M M ET A A A A A A 598 MHz	Frequency Auto Tune
2		div	Ref Off: Ref 8.	set 8.6 58 dE	8 dB Sm	-	-	-		1		10	-66.1	31 dBm	Center Fred
	1.42														15.075000 MHz
1	21.4	-		_		-									Start Fred 150.000 kHz
	a1.4													-39.00 dBm	Stop Free 30.000000 MHz
-6	51 4		-	_											CF Step 2.985000 MH Auto Mar
	71.4	Man	hillow												Freq Offset 0 Hi
-6	81.4 -		THE REAL AND		Whennert	Winterner	hiter	norman	ngushaithikau	numurhydais	ANTURONIA	-un-propose	enimente antopys	and an or an allow	
#	tart Res	150 KH BW 10	HZ 0 KHZ			#\	/BW 30	) kHz*			SW		Stop 3 68.3 ms	0.00 MHz (1001 pts) upled	
8 M	RL	spectrum I er Fre	RE	250.9	AC	GHz		rig:Free	VSE:INT	Avg	ALI Type: R	ION OFF	]10:29:06,4	M Dec 08, 2018 CE 1 2 3 4 5 6 PE M MANANA ET A A A A A A	Frequency
31	0 dB/	div I	Ref Offs Ref 30	set 7.9		GHZ PNO: Fas IFGain:Lo		Atten: 40	dB	CARDIN.	ioid. or i		kr2 25.	40 GHz 62 dBm	Auto Tune
	20.0				1	-									Center Fred 13.015000000 GHz
	0.00	Ŷ	'											1	Start Fred 30.000000 MHz
	10.0		-	_		_					_			-1 3,00 dbin	Stop Free 26.000000000 GHz
	20.0														2597000000 GH2
4	10.0	and	man,	maran	-	-	~~~	و المعادية المواجعة و العاسي	مورسوم ۲۰۰ مرسمه الم	, and an a state of the state o	ware	in an all and a	ma	- then and	<u>Auto</u> Mar
-6	50.0	1.5													Freq Offser 0 Ha
-6	io.o.		-												

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Agile	ent Sp	_	Analyzer	_	_	P11(3)		211110	. Dui				-	CH_16	
1,314	RL		915 1 79.5	50 9 11	lz Iz	NO: Wide	Tri	sense g: Free R	un	Avg Ty Avg Ho	ALIGN CF be: RMS d: 10/100	F J:	10:28:39 AM TRACI TYP	Dec 08, 2018 1 2 3 4 5 6 MMMMMMM A A A A A A	Frequency
10	dB/d	iv R	ef Offse tef 8.5	t 8.58		Gain:Low	#A1	ten: 16 d	8			Mk	r1 11.2	56 kHz 55 dBm	Auto Tune
-1.4	10				-	-	-								Center Fred
313															79.500 kH:
-21														· · · · · · · · · · · · · · · · · · ·	Start Fred 9.000 kH;
-31.	4			_					_						Stop Free
-41.6	4	_	_	_							_	_		-43.00 dBm	150.000 kH;
-51	4	_		_	_		_		_						CF Step 14.100 kH
-61	4	1		-			-		-	-	-			_	<u>Auto</u> Mar
-71.	4 A	WML.	Moderta		4 1		-		_				1.5		Freq Offse 0 H
-81.4	4	1	( and the	w My you	A. W. Contraction	My Mrs	www	whym	mound	man	Whoma We	MAN	WAMM	manna	
Sta #Re	es B	.00 kH SW 1.0	z				BW 3.0				Surme.		Stop 15	0.00 kHz 1001 pts)	
MSG				-					_		ST	arius 🔮	DC Cou	pled	
1.14	RL		Analyzer RF 1 15.0	50 9 AN	DC BALL	1		SERVISE	INT	Avg Ty	ALIGN OF be: RMS d: 9/100	F J:	10:28:44 AM TRAC	Dec 08, 2018 1 2 3 4 5 6 MMMMMM A A A A A A	Frequency
					-0	PNO: Fast Gain:Low	Tri #Ai	g: Free R ten: 10 d	B	AvgiHo	d: 9/100	Mk		S8 MHz	
10 c	dB/d	iv R	ef Offse tef 8.5	8 dBn	1	-	-	-	- 1			-	-65.56	60 dBm	
-1.43	2	-			-	-	_	-	_				_		Center Fred 15.075000 MH
413	4			-		-	-					-	-		Start Fred
-21	4	-						-			-		_		150.000 kH;
-31.	4		-	-	-	-	_	-			_	-	_	-39.00 df%n	Stop Free 30.000000 MH;
-41-	4										-				
-61															CF Step 2.985000 MH Auto Mar
-61	1														FreqOffse
-71 -	4	Mar Wa	when a	Å 1.										14.0	0 H:
			14	with the	habitation	manymath	Jeransupton	natural and	Jin Mary Land	burnhandred	yphen han he			numbertiles	
Sta #Re	es E	50 KH 3W 10	кнz			#V	BW 30	kHz*				368	Stop 30 3.3 ms ( DC Cou	0.00 MHz 1001 pts)	(
		ectrum	Analyzer	Swept	SA.										
Ce	nte	r Fred	13.0	1500	0000	GHz PNO: Fast Gain:Low	Tri	g: Free R ten: 40 d	un	Avg Ty Avg/Ho	ALIGN OF be: RMS d: 6/100	+ ]:	10:28:47 AV TRACI TYP DE	Dec 08, 2018 1 2 3 4 5 6 MMMMMMM A A A A A A	Frequency
		R	ef Offse tef 30,	t 7.98		-Gain:Low	#74	ten: 40 a				Mkr	2 25.6	36 GHz 23 dBm	Auto Tune
1.3			er 30.		m	-	_			-				.o abiii	Center Free
20)		. <b>1</b>	1												13.015000000 GH:
10		$-\gamma^1$	1.1											- I	Start Free 30.000000 MH;
-10.0	â														
-20.0														-13,00 dten	Stop Free 26.000000000 GH;
-30.0											1			4	CF Step
10.2		-	my		-			ma	mun		man		and the second	instructure	2.597000000 GH: Auto Mar
-40.0	10	a and a	2	-		- marine									Freq Offse
-40.0	a														
1	1					_									0 H:

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				raph(s)	(Chanı	nel Ba	ndwidtł	n: 10 N	/Hz)_l	_CH_Q	PSK
1.00	RL	PF RF req 79.5	50 9 A DC-	1		NISE:INT	Avg Type Avg Hold:	ALION OFF	10:29:01 A	4 Dec 08, 2018	Frequency
			et 8.58 dB 8 dBm	PNO: Wide - IFGain:Low	#Atten: 2	e Run 2 dB	Avg Hold:		lkr1 10.:	269 kHz 71 dBm	Auto Tune
-1 4				-							Center Freq 79.500 kHz
-11. -31	1.1										Start Freq 9.000 kHz
-31.											Stop Freq 150.000 kHz
-41	a a									-43.00 (Bin	CF Step 14.100 kHz
-E1-	A Araha	Vorila									Auto Man Freq Offset
-81	4	"TURWAY	www.	MANNAM	mapphilition	Howahat	www.huwwwy	WWWWWWW	Maryyun 1	white	0 Hz
Sta #R	rt 9.00				W 3.0 KHz		÷.	Sweep 1	Stop 15	0.00 kHz 1001 pts)	
DW/ 11	RL	nm Analyzer ⊮⊭ req 15.0	Swept SA 50 9 A DC	Hz	33	NSE:INT	Avg Type Avg Hold:		10:29:02 6	1 Dec 08, 2018	Frequency
-			et 8.58 dB 8 dBm	PNO: Fast - IFGain:Low	Trig: Fre #Atten: 1	e Run 0 dB	Avg Hold:		Akr1 2.9	56 MHz 85 dBm	Auto Tune
-1.4				-							Center Freq 15.075000 MHz
-11. -31	4										Start Freq 150.000 kHz
-31.	4						1	_		-39,00 dism	Stop Freq 30.000000 MHz
-41	4										CF Step 2.985000 MHz
-61. -71		<b>,</b>	. 1	ĭ							Auto Man Freq Offset
-81	Www.	y Waylortha	philosoff of the second se	and in the second states	nt literature portant		g-ac-How-Mangag	(truthrite/public)	lack growth and the	awablesadaliya	0 Hz
#R	art 150 es BW	kHz 10 kHz			W 30 KHZ*			Sweep 3	Stop 3 68.3 ms (	0.00 MHz 1001 pts)	
2,364	RL	um Analyze RF	SO Q AL	1	34	NSE:INT]	Aug Turk		DC Cou	12.3	Frequency
		Ref Offs	1500000 et 7.98 dB	PNO: Fast - IFGain:Low	Trig: Fre #Atten: 4	e Run 0 dB	Avg Type Avg Hold:		kr2 25.6	1 Dec 08, 2018 1 2 3 4 5 6 E MUMANANA 1 2 3 4 5 6 E MUMANANANA 1 2 3 4 5 6 E MUMANANA 1 2 5 6 E MUMANANANA 1 2 5 6 E MUMANANANANA 1 2 5 6 E MUMANANANANANA 1 2 5 6 E MUMANANANANANANANANANANANANANANANANANANA	Auto Tune
20	B/div	Ref 30.	00 dBm	-					-31.3	08 dBm	Center Freq 13.015000000 GHz
10		21									Start Freq
-10.										-13,00 dtsin	30.000000 MHz Stop Freq
-20.	1.00									3	26.00000000 GHz CF Step 2.597000000 GHz
-40.			ent marine		Arman a famourance	and an and and		مردور مرسومه المسيس	minima	and the we	<u>Auto</u> Man
-60	12.00										Freq Offset 0 Hz
Sta	rt 30 M	1Hz 1.0 MHz			W 3.0 MH			Surger A	Stop 2	6.00 GHz 1001 pts)	
#R		1.0 WHZ		#VB	vv 3.0 IVIH2			sweep o		root prs)	L

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2.304	RL	am Analyze	50 9 A DC	21		SEA	el Bar		ALIGN OFF	10:29:45 AM	1 Dec 08, 2018	-
Ce	nter Fi	eq 79.5	00 kHz	PNO: V IFGain:	Vide	Trig: Free #Atten: 22	Run	Avg Type Avg Hold	: RMS 9/100	TRAC TVI DE	1 Dec 08, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
10	dB/div	Ref Offs Ref 8.5	et 9.69 dE 8 dBm		LUW		. ub		м	kr1 10.3	269 kHz 22 dBm	Auto Tune
-1.4	10.7		n i din 1							-		Center Freq 79.500 kHz
1	10.00								1			79.500 KHZ
-31	1.0											Start Freq 9.000 kHz
-31.	4									_		Stop Freq
-41	4	_	_								-43.00 dBm	150.000 kHz
-61.	4						_			_		CF Step 14.100 kHz
-61.	4											<u>Auto</u> Man
·71	* mushy	nd why	My must in	An and a		3.1.6	Á .	1.5				Freq Offset 0 Hz
-81	4			Mundul	Withawa	nty-tytonyd	MANN	when they	marcher	from Whowas	whenwhy	
Sta #R	art 9.00		1.00			3.0 kHz*			Sweep 1	Stop 15 74.0 ms (	0.00 kHz 1001 pts)	
 MSG		_		_					STATUS	DC Cou	pled	
		eq 15.0		MHz	1	SER.	SE INT	Avg Typ Avg Hold	ALIGN OFF	10:29:50 AM	4 Dec 08, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
				IFGain:	ast Low	Trig: Free #Atten: 10	dB	Avginoid			81 MHz	Auto Tune
18	dB/div	Ref Offs Ref 8.5	8 dBm	-		_	-			-67.4	66 dBm	
-1.4	2	-			_	_	_			_		Center Freq 15.075000 MHz
-11	4	-	-	-	_	-				-	_	Start Freq
-21	4					-						150.000 kHz
-31	4	-	-			_				-	-39.00 dDm	Stop Freq 30.000000 MHz
-41	11.11											
-61	4											CF Step 2.985000 MHz <u>Auto</u> Man
-51-	1	1	4	-		_					ting it	Freq Offset
-61	Mart	and more	whereabourd	martin	- A				1.00	3.21	1.1	0 Hz
		1.	1111	-una	kenter and and a	nether lingerer	Lelynor har yw h	·····································	unanananan	-		
Sta #R	es BW	kHz 10 kHz			#VBW	30 kHz*			Sweep 3	Stop 3 58.3 ms (		
	ent Spectr	um Analyze	Swept SA			1	ADDE: No.1171					D:
Ce	nter Fr	eq 13.0	150000	000 GHz PNO: I	ast	Trig: Free #Atten: 40	Run	Avg Typ Avg Hold	: RMS 6/100	TRAC TRAC TVI DE	4 Dec 08, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
10	Bidiy	Ref Offs	et 7.98 dE 00 dBm		Low				м	r2 25.6	36 GHz 43 dBm	Auto Tune
10	dB/div				1				-			Center Freq
20	1.1	1				-						13.015000000 GHz
10	5	2										Start Freq 30.000000 MHz
-10	á											
-20.											-13,00 dbin	Stop Freq 26.00000000 GHz
-30						_					ě	CF Step 2.597000000 GHz Auto Man
-40.	0	mann	m	mannen		and and the sales		minun	manner	and the second	mymore	Auto Man
-50	0				-		1.1.01		1	-		Freq Offset 0 Hz
-60	a	-										UHZ
Sta	art 30 N	IHz				alle a				Stop 2	6.00 GHz	
		1.0 MHz			445 / 125 5.0.2	3.0 MHz					1001 pts)	

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CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
Conter Freq 79.500 kHz     Frequency
Phic Mide + This Floor and Phic Mide + This Floo
1.42 Center Freq 79.500 kHz
31.4 Start Freq 9.000 KHz
314 Stop Freq 150.000 kHz
-41 4 -51 4 1 
and Willing Man Much much and Freq Offset
and and a share a shar
Start 9.00 kHz         Stop 150.00 kHz           #Res BW 1.0 kHz         #VBW 3.0 kHz*         Sweep 1774.0 ms (1001 pts)           #wool         @ranking
Adjent Spectrum Analyzer         Swed 54         Adjent Spectrum Analyzer         Swed 54         Adjent Spectrum Analyzer         Status Spectrum Analyzer         Status Spectrum Spectru
Ref Offset 8.58 dB Mkr1 1.881 MHz Auto Tune
10 dB/div Ref 8.58 dBm65,329 dBm
-114 Start Freq -314 150.000 kHz
414 30,00000 MHz
271.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 491.4 49
متعديد من معرف المعرف المعرف المعرف المعرف المعرف المعرف المعرف
 wso ortanue de DC Coupled
Min         se         Social         Interface         Augustor         Discondra Macrosotte         Prequency           Center Freq 13,015000000 GHz         PHOFFast         Trigit Prest Nun         Avg Type: RMS         macrosotte         Prequency           PHOFFast         Trigit Prest Nun         Avg Type: RMS         macrosotte         Prequency           PhofFast         Trigit Prest Nun         Avg Type: RMS         macrosotte         Prequency           PhofFast         Trigit Prest Nun         Avg Type: RMS         Trigit Prest Available         Avg Type: RMS         Trigit Prest Nun
Ref Offset 7.90 dB     Mkr2 25.740 GHz     Auto Tune       10 dB/div     Ref 30.00 dBm     -31.569 dBm       Log     Center Freq
200 Center Preq 13.015000000 GHz
0.00 Start Freq 30.000000 MHz
-10.0
300 CF Step 2.59700000 GHZ
40.0 50.0 FreqOffset
-60.0

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CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
Allent Spectrum Andizer - Sweet SA.
IFGaintLow #Atten: 22 dB DET A A A A A
Ref Offset 6.69 dB         Hitt F 10, F20 KF2           10 dB/div         Ref 8.58 dBm           -65,040 dBm         -65,040 dBm
-1.42 Center Freq 79.500 kHz
-(1.4 Start Freq
-31.4 9.000 kHz
-31.4 Stop Freg 150.000 kHz
-41.4
14.100 KHz Auto Man
Freq Offset
The Mary Mary Mary Mary Mary Mary Mary Mary
Start 9.00 kHz Store 77.0 kHz Store 10.0 kHz Start 9.00 kHz Store 10.0 kHz Store
#Res BW 1.0 KH2     #VBW 3.0 KH2"     Sweep 174.0 ms (100 pts)       Millo     Immunol d DC Coupled
Adjenti Spectrom Analyzer. Swelpt Sh
IFGain:Low #Atten: 10 dB
Ref Offset 6.69 dB         HKT 2.550 HT 2           10 dB/div         Ref 8.58 dBm           -66.465 dBm         -66.465 dBm
-1.42 Center Freq 15.076000 MHz
d)14 Start Frég
-21.4 150.000 KHz
-31.4
414
-61.4 CF STep 2.985000 MHz Auto Man
The interest of the second sec
Start 150 KHZ Stop 50.00 WHZ
 #Res BW 10 kHz         #VBW 30 kHz*         Sweep 368.3 ms (1001 pts)           wro         granue dt_DC Coupled
 Addent Spectrum Androver. Swept SA Manual Spectrum Androver. Swept SA Contor Freq 13.015000000 GHz PR0: Feat ++ Trig: Free Run Availabil: 6700 Trig: Row Availabil: 6710
IFGain:Low #Atten: 40 dB
Ref Offset 7.98 dB Mkr2 25.714 GHz Auto Tune 10 dB/div Ref 30.00 dBm -31.368 dBm -31.368 dBm
2010 Center Freq 13.015000000 GHz
100 11 Start Freq
0:00 Start Pred 30,000000 MHz
-10.0
20.0
30.0 CF Step 2.59700000 GHz Auto Man
ADD months and an and an and an and an and an and an and and
-80.0
Start 30 MHz         Stop 26.00 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz <sup>4</sup> Sweep 64.93 ms (1001 pts)           wool         pranule

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8	1 Dec 08, 2018	10:30:05 AM	UTGN OFF	20	SENSE:INT	1 1		alyzer Swept	8	BI BI
6 Frequency	E 123456 E MMMMMM T A A A A A A	TRACI TVPI DE	RMS	Avg Type Avg Hold:	ee Run	Vide Trig: F Low #Atter	PNC	79.500 kH	ter Freq	Cent
z Auto Tur	191 kHz 36 dBm	r1 16.1	м	10 m		Line and the		Offset 8.58 d 8.58 dBm	Re Bidiv Re	10 dB
Center Fre 79.500 ki		_	_						14 T - 4 11 11 1	-1.42
Start Fre 9.000 ki										-11.4 -
Stop Fro 150.000 ki		_						_		-31.4 -
CF Ste 14.100 kl	-43.00 dBm									-41.4
Auto M									Write m	-51.4
01	Manyara	White	united when	When the new	www.www	may and a	mpp	www.www.Warth	- 1 al Andrew	-81.4
z	0.00 kHz 1001 pts)	Stop 15 4.0 ms (1	weep 1			#VBW 3.0 KH			t 9.00 kH: s BW 1.0	Start
8	1 Dec 08, 2018	DC Cou		4	service: Inf (		SA	alyzer - Swept	Spectrum A	Aellent
6 Frequency	E 123456 E MMMMMM T A A A A A A	TRACI TVP DE	RMS	Avg Type Avg Hold:	ee Run 10 dB	ast	) MHz	15.07500		
z Auto Tu	26 MHz 19 dBm	kr1 2.9	M			Low Protect		Offset 8.68	Re Bidiv Re	10 dB
Center Fr 15.075000 Mi		-	-						14 <sup>17</sup> - 4	-1.42
Start Fre 150.000 ki										-11.4 -
Stop Fre 30.000000 Mi	-39:00 diam									-31.4
CF Ste										41.4
2.985000 Mi Auto Mi	10.00									-61.4
Freq Offs 01						ะหาใหว่างเกิดรายุได้เปล่า	ten .	Mortalia	duration	-71.4
*	ale in Miller al	whether	hormonalisati	and a phase in the second s	enouter-avenue	with inclusion and the day	- Horald	The second second	1212	-61.4
z \$)	1001 pts)	Stop 30 8.3 ms (*	weep 3		*	#VBW 30 KH		Hz	150 kHz 8 BW 10 I	Start #Res
8				A	sense:InTy	1	100	alyzer Swept	19	DV BL
6 Frequency	1 Dec 08, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	TRACE TYPE DE	RMS 5/100	Avg Type Avg Hold:	ee Run 40 dB	ast Trig: P Low #Atter	)000 GH PNI IFG	13.01500	ter Freq	Cent
z Auto Tur	10 GHz 97 dBm	-31.49	MI			_	B	Offset 7.98 30.00 dB	Bidiv Re	10 dB
Center Fre 13.015000000 Gi		_	-		-				-	20.0
Start Fre 30.000000 M									\$ <sup>1</sup>	0.00
Stop Fre	-1 3,00 dbin							_		-10.0
26.00000000 G					_					20.0
CF Ste 2.59700000 GI Auto M	mund	monteres	manno	and the second second						-30.0
Freq Offs		_			and approximately and a second		- and the state of the	and the second s	man	-40.0
-										-60.0
				1						

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	CS	SE Tes	t Grap	oh(s) (0	Channe	el Ban	dwidth	: 10 M	Hz)_H	CH_16	6 QAM
DW BL		Analyzer Sw RF 100 9	ADC-1		SE	VSE:INT	A	ALTON OFF	10:30:49 AA	1 Dec 08, 2018	
Cente	er Freq	79.500		NO: Wide	Trig: Free #Atten: 23	Run	Avg Type Avg Hold:	: RMS 10/100	TRAC	E 1 2 3 4 5 6 E M	Frequency
10 dB/c	div Re	ef Offset 8. ef 8.58 di		Gain:Low	#Atten: 2	2 90			kr1 10.6	692 kHz 79 dBm	Auto Tune
-1.42	17.1	11	11					-	-		Center Freq 79.500 kHz
11.4	1.00								-		79.000 KH2
-31.4											Start Freq 9.000 kHz
-31.4				1							Stop Freq 150.000 kHz
-41.4										-43.00 dBm	CF Step
-51.4	1					1					14.100 kHz Auto Man
-61.4 Ww	18	2.00								-	Freq Offset
-71.4	a heard all	14 may lum	MAN HAR	An I. I.		1400	tains the world	1.1.1		12.11	0 Hz
-81.4	100		Ann Dak	AL MANNY	and the Au	1 - Antony	ann when he	MILLINN	haward	14 Armalia	
Start 9 #Res 1	9.00 kH BW 1.0	lz kHz	-	#VBV	/ 3.0 kHz*		-	Sweep 1	Stop 15	0.00 kHz	
MBO		10.10		194.00	tere abe				DC Cou		
DV RL		Analyzer Sw RF 190 9	A DC	1	581	use:INT	4	ALIGN OFF	10:30:54 AN	1 Dec 08, 2018	Frequency
Cente	er Freq	15.075	DOO MHZ	NO: Fast	Trig: Free #Atten: 10	e Run 0 dB	Avg Type Avg Hold:	: RMS 9/100	TRAC	E 123456 E MMMMMM T A A A A A A	100.00
	Re	ef Offset 8. ef 8.58 di		ounicon				IV	lkr1 2.8	96 MHz 58 dBm	Auto Tune
		er 8.58 d	BM		-	1			-00.0		Center Freq
-1.42			-								15.075000 MHz
-11.4						-			-		Start Freq
-21.4											150.000 kHz
-31.4	-	10000								-39.00 dten	Stop Freq
-41.4	_							1			30.000000 MHz
-51 4		-						_			CF Step 2.985000 MHz
-61.4			1					_			<u>Auto</u> Man
-71.4	. Martin							1 2	12.1	11000	Freq Offset
-81.4	MARY DIS	Marmanahan	Anthrowen								0 Hz
		-		and who have the	hard a start and a start and	trubben and	whether whether wh	of high standing of the standi			
#Res I	150 kHz BW 10	z KHz		#VBV	/ 30 kHz*		3	Sweep 3	58.3 ms (		
Agilent S	ipectrum A	Analyzer - Sw	ept SA								
LW RL	18	RF 50 Q	000000		SEr	e Run	Avg Type Avg Hold:	ERMS	10:30:58 AM	4 Dec 08, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency
	B	of Office 7		NO: Fast	#Atten: 40	0 dB			kr2 25.6	88 GHz	Auto Tune
10 dB/c	div Re	ef Offset 7. ef 30.00	dBm	-	-	-		-	-31.3	98 dBm	
20.0	-	-	1			_			_		Center Freq 13.015000000 GHz
10.0	01										
0.00	1									1	Start Freq 30.000000 MHz
15.0	-										
-10.0										-13,00 dbin	Stop Freq 26.00000000 GHz
-20.0		1								2	CF Step
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		1000	1.00			1.2.1	water -	manne	the states and the second	man	2.597000000 GHz Auto Man
-30.0		man	maning	mark grown were	- motor - Ma	as - star	lunar				
-30.0	- allowed	1 1 1 1 1 1									
C.**1	lim	1.00						-			Freq Offset 0 Hz
-40.0	million										
-40.0 -	30 MHz BW 1.0				/ 3.0 MHz			Sweep 64	Stop 2	6.00 GHz	

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Alter Status       Alter Status       Alter Status       Pressner         Pressner       Pressner       Pressner       Pressner       Pressner       Pressner         Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner       Pressner <t< th=""><th>Agile</th><th>50</th><th>SE Test Gra</th><th>aph(s) (Cha</th><th>nnel Bandw</th><th>idth:15 M</th><th>Hz)_LCH_Q</th><th>PSK</th></t<>	Agile	50	SE Test Gra	aph(s) (Cha	nnel Bandw	idth:15 M	Hz)_LCH_Q	PSK
Productive State and methods (2.5.0)     Mit 10, 26.00     Auto Tune       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0)     Productive State and methods (2.5.0)       Productive State and methods (2.5.0)     Productive State and methods (2.5.0) <td< td=""><td></td><td>RL RF</td><td>DD 9 A DC</td><td>1</td><td>SERVISE: INIT  </td><td>ALIGN OFF</td><td>10:31:11 AM Dec 08, 2018</td><td>Frequency</td></td<>		RL RF	DD 9 A DC	1	SERVISE: INIT	ALIGN OFF	10:31:11 AM Dec 08, 2018	Frequency
Program       Ref 25 to 80 mm	Cer	nter Freq i	9.500 kHz	PNO: Wide Trig: F FGain:Low #Atten	ree Run Avg : 22 dB			100 Deck 2 D 100
1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	10 6	Bidiv Rel	Offset 8.58 dB 8.58 dBm			N	4kr1 9.282 kHz -65.667 dBm	Auto Tune
Image: Section of the section of th	13	10 T 11						
Sector 200 bits Bert P 00 bit	0.0	10.000						79.600 KHz
0.1								
and	10 I							
a a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       a b 1       <								Stop Freq 150.000 kHz
Auto Maria Provide Auto Maria	1.1						23300 (188	CF Step
Image: Sol Kitz       Bits 15 00 Kitz		1					i i i	14.100 kHz Auto Man
PROBABLY IS NEZ INCLUMENT OF CONTRACT, SAMPAGE Center Freq 15.075000 MHz Red 15.8 00 MHz Trig Freq 15.075000 MHz Red 15.8 00 MHz Trig Freq 15.075000 MHz Solution Red 15.9 00 MHz Trig Freq 15.075000 MHz Solution Red 15.0 00 MHz Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solut				1.01.00			1	Freq Offset
PRC BW 10 kHz     PVBW 30 kHz*     PVBW 10 kHz*       Weine 17.0 kHz     PVBW 20 kHz*       Wei	10.	a 10% 0%	nonnannan	Manguhanian	a Man Ashanan	An Andrea .	at a state of	0 Hz
PRC BW 10 kHz     PVBW 30 kHz*     PVBW 10 kHz*       Weine 17.0 kHz     PVBW 20 kHz*       Wei		1000		3.0	to all subserve and M	and an the full of the factor	Part cutors has a she the	
Main description     Main description     Main description     Main description     Prequency       Center Freq 15.075000 MHz     File Free Run     Might are Run     Prequency     Auto Tune       Particle     Ref 7.828 GBB     Mikri 7.732 MHz     Auto Tune       144     Image: Run Prequency     State: Run Prequency     Run Tune       144     Image: Run Prequency     State: Run Prequency     Run Tune       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       144     Image: Run Prequency     State: Run Prequency     State: Run Prequency       145     Image: Run Prequency     State: Run Prequency     State: Run Prequency       146	Sta #Re					Sweep 17	'4.0 ms (1001 pts)	
Bind State     Prequency     Prequency     Prequency       International and the state     Prequency     Ministrational and the state     Prequency       International and the state     Prequency     Ministrational and the state     Prequency       International and the state     Prequency     Ministrational and the state     Auto Tune       International and the state     International and the state     International and the state     Auto Tune       International and the state     International and the state     International and the state     International and the state       International and the state     International and the state     International and the state     International and the state       International and the state     International and the state     International and the state     International and the state       International and the state     International and the state     International and the state     International and the state       International and the state     International and the state     International and the state     International and the state       International and the state     International and the state     International and the state     International and the state       International and the state     International and the state     International and the state     International and the state       International anditest and the state     International and the sta	MSG	at Spectrum An	alumor - Sumpt SA-			STATUS	DC Coupled	
Auto Tune 	L.M. F	RL RF.	SD & ADC			Type: RMS	10:31:16 AM Dec 08, 2018 TRACE 1 2 3 4 5 6	Frequency
140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140     140 <td></td> <td></td> <td></td> <td>PNO: Fast Ing: F FGain:Low #Atten</td> <td>: 10 dB</td> <td></td> <td></td> <td>Auto Tune</td>				PNO: Fast Ing: F FGain:Low #Atten	: 10 dB			Auto Tune
1.12       1.5.75000 MHz         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       20000         3.14       200000         3.14       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       20000         3.15       200000000         3.15       20	186	B/div Ref	0ffset 8.58 dB 8.58 dBm				-61.165 dBm	
314       314       314       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       315       3	-1.45	2						
314       10,000 Hit         314       30,000 Hit         314       30,000 Hit         314       30,000 Hit         314       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1         414       1 <td< td=""><td>415</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	415	4						
ain       a	.31 -	4						Start Freq 150.000 kHz
Altorite de la construir de la	-31.2	4				1.	-39.00 dfan	Stop Fred
61.4       Audo       Man         41.4       Audo       Man         41.4       Audo       Man         41.4       Audo       Man         41.4       Man       Man         10.4       Man       Man         10.4	-41.2	4						
61.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4       41.4	-61.7	4						CF Step
Image: Start 150 kHz       Stop 30.00 MHz         #record for the former for	-61.4	4	• <sup>1</sup>			_		Auto Man
Start 150 kHz     #VBW 30 kHz*     Stop 30.00 MHz       #Res BW 10 kHz     #VBW 30 kHz*     Bweep 308.3 ms (1001 pts)       #Image: Stop 30.00 MHz     Control Contrel Control Control Contreconte Control Control Contrel C							1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Freq Offset
Start 150 kHz     #VBW 30 kHz*     Stop 30.00 MHz       #Res BW 10 kHz     #VBW 30 kHz*     BWeep 368.3 ms (1001 pts)       #Image: Construction of the second secon	.71.4	· Aller						
#Res BW 10 kHz       #VBW 30 kHz*       Sweep 368.3 ms (1001 pts)         wron       mrwnell DC Coupled         wron       mrwnell DC Coupled         Br Rt       mrwnell DC Coupled	-71.4	WWW	when the state of the second s	where a second shift of the first	and a superior and a superior	Words What had proved	and and marine and the state of the second	
Adjent Spectrum Analyzer       Swept SA (model       Subscription       Autor (set)       Job (Set)       Job (Set)       Frequency         Certier Freq 13.015000000 GH2 (reg 13.015000000 GH2 (reg 13.015000000 GH2 (reg 13.015000000 GH2 (reg 13.01500000 GH2 (reg 13.0150000 GH2 (reg 13.01500000 GH2 (reg 13.015000000 GH2 (reg 13.015000000 GH2 (reg 13.0150000000 GH2 (reg 13.015000000 GH2 (reg 13.0150000000 GH2 (reg 13.0150000000 GH2 (reg 13.0150000000 GH2 (reg 13.01500000000 GH2 (reg 13.01500000000 GH2 (reg 13.015000000000 GH2 (reg 13.0150000000000000000000000000000000000	-71.4 -81.4		wheeling and an	And and the second s	ารกรุกษ์ จะที่ประเทศทางกรุกษ์สุดเมือง (	ale-ale-life-asti-action-play		
IF-Gaintow         Parter: 40 dB         Mkr2 25.688 GHz -31.371 dBm         Auto Tune           10 dB/div         Ref 30.00 dBm         -31.371 dBm         -31.371 dBm         -31.371 dBm           30 0         -1         -1         -31.371 dBm         -31.371 dBm         -31.371 dBm           10 0         -1         -1         -1         -31.371 dBm         -31.371 dBm         -31.371 dBm           10 0         -1         -1         -1         -1         -31.371 dBm         -31.371 dBm         -31.371 dBm           10 0         -1         -1         -1         -1         -1         -1         -31.371 dBm	-71.4 -81.4 \$ta #Re	rt 150 kHz				Sweep 36	Stop 30.00 MHz 8.3 ms (1001 pts)	
IF-Gaintow         Parter: 40 dB         Mkr2 25.688 GHz -31.371 dBm         Auto Tune           10 dB/div         Ref 30.00 dBm         -31.371 dBm         -31.371 dBm         -31.371 dBm           30 0         -1         -1         -31.371 dBm         -31.371 dBm         -31.371 dBm           10 0         -1         -1         -1         -31.371 dBm         -31.371 dBm         -31.371 dBm           10 0         -1         -1         -1         -1         -31.371 dBm         -31.371 dBm         -31.371 dBm           10 0         -1         -1         -1         -1         -1         -1         -31.371 dBm	ידו. - 13 - 14 אתפים אתפים	art 150 kHz es BW 10 kl	Hz		z*	Sweep 36	Stop 30.00 MHz 8.3 ms (1001 pts) DC Coupled	
100       1       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100	-71.4 -81.4 #Re wool	rt 150 kHz es BW 10 kl	Hz Ilyzec Swept SA 150 Q AC   13.015000000	#VBW 30 kH	z* sense:ni) 'ree Bun Avg	Sweep 36	Stop 30.00 MHz 88.3 ms (1001 pts) DC Coupled 10:31:20AM Dec (89, 2018 TRACE 12 3 4 5 6	0 Hz
200       13.01500000 GHz         100       13.01500000 GHz         000       13.00000 GHz         000       Freq Offset 0 Hz	-71.4 -81.4 #Re wool Cor	nt 150 kHz es BW 10 kl nt Spectrum And RL 9F nter Freq *	Hz Ilyzec Swept SA 150 Q AC 13.015000000	#VBW 30 kH	z* sense:ni) 'ree Bun Avg	Sweep 36 STATUS ALION OFF Type: RMS Hold: 6/100	Stop 30.00 MHz 58.3 ms (1001 pts) DC Coupled 10:31:20AM Dec (9, 2018 TYPE IN WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	0 Hz Frequency
000     100     1300 000 MHz       100     1300 000 GHz       000     1300 000 GHz       000     1500 000 GHz	-71.4 -81.4 #Re wool Cor	nt 150 kHz es BW 10 kl nt Spectrum And RL 9F nter Freq *	Hz Ilyzec Swept SA 150 Q AC 13.015000000	#VBW 30 kH	z* sense:ni) 'ree Bun Avg	Sweep 36 STATUS ALION OFF Type: RMS Hold: 6/100	Stop 30.00 MHz 58.3 ms (1001 pts) DC Coupled 10:31:20AM Dec (9, 2018 TYPE IN WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	0 Hz Frequency Auto Tune
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1	0.900	Trig:Fi		Avg	ALIG Type: RM fold: 9/10	S OFF	10:31:54 A	M Dec 08, 2018 TE 1 2 3 4 5 6 PE M M A A A A A ET A A A A A A A	Frequency
de -	O: Wide -► ain:Low	#Atten:	22 dB				Akr1 9.	564 kHz 88 dBm	Auto Tune
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									Start Freq 9.000 kHz
-								-42.00 rtEm	Stop Freq 150.000 kHz
-									CF Step 14.100 kHz Auto Man
Wany	chy Mary	why who ye	An Mydriaph	Wrynd yn	hullyman	pro-An	MMMMM	1/1/1/1/1/1/1/	
		/ 3.0 KH				ep 17		1001 pts)	
1	1		senae (n'n )	Avg	ALIG Type: RM fold: 9/10	S S	]10:32:00,A TRAI	M Dec 08, 2018 1 2 3 4 5 6 PE M MANAAAA ET A A A A A A	Frequency
st -+	IO: Fast ↔ ain:Low	#Atten:	10 dB	Avgi	1018: 9/10		kr1 5.4	93 MHz 44 dBm	Auto Tune
									Center Freq 15.075000 MHz
									Start Freq 150.000 kHz
-				_	_	_		-39:00 dl3m	Stop Freq 30.000000 MHz
							_		CF Step 2.985000 MHz
1	1								Auto Man Freq Offset
alwa	ner-layer laster	whent	n la far anna an	manywelder	Virvingual	wapullowaha	multiman	yilly me literation	0 Hz
		/ 30 kHz				ep 36	Stop 3	0.00 MHz 1001 pts)	
1	Hz		SENJSE: INT	Avg	ALICS Type: RM fold: 6/10			M Dec 08, 2018 E 1 2 3 4 5 6 PE M MANANA ET A A A A A A	Frequency
et -+ ow	HZ 10: Fast -+ iain:Low	#Atten:	40 dB	Avgli	loid: 6/10		r2 25.6	36 GHz 44 dBm	
-									Center Freq 13.015000000 GHz
									Start Freq 30.000000 MHz
_						_		-1 3,00 dtwn	Stop Freq
								ě	26.00000000 GHz CF Step 2.597000000 GHz
yr-naw	way and the second s	and an and the second second	and the second second	menning	and the second second	· marine	H. A. Annia and	and you what	2.597000000 GHz Auto Man Freq Offset
							-		0 Hz
				-		-			

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CSE	Test Graph	n(s) (Channel Ba	andwidth:15 N	/IHz)_HCH_Q	PSK
Adlent Spectrum Analyz M RL 96 Center Freq 79	500 kHz	Wide Trig: Free Run	Avg Type: RMS Avg Hold: 9/100	10:32:36 AM Dec 09, 2018 TRACE 1 2 3 4 5 6 Type Mwwwww DET A A A A A	Frequency
and the second second	PNO: IFGain Set 8.58 dB .58 dBm	Wide Trig: Free Run n:Low #Atten: 22 dB		Mkr1 9.141 kHz -65.079 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				-43.00 dBm	CF Step 14.100 kHz
51.4 1 TWINA					Auto Man Freq Offset
-21.4 11 10 10 10 10 10 10 10 10 10 10 10 10	Mr. W. White Marchar	www.	Marythy according to the	Ang mar Marine marine	0 Hz
#Res BW 1.0 kHz		#VBW 3.0 kHz*	Sweep	174.0 ms (1001 pts)	
Agilent Spectrum Analyz	SD 9 A DC		A al trai tree	10:32:41 AM Dec 08, 2018	Frequency
Center Freq 15.	PNO: IFGal	: Fast n:Low #Atten: 10 dB	Avg Type: RMS Avg Hold: 9/100	TYPE MUMMUM DET A A A A A A Mkr1 7.792 MHz	Auto Tune
Log	/set 8.68 dB .58 dBm			-62.203 dBm	Center Freq
-1.42					15.075000 MHz
-31.4					Start Freq 150.000 kHz
-31.4				-39:00 dBm	Stop Freq 30.000000 MHz
-61.4	<u>.</u>				CF Step 2.985000 MHz Auto Man
-71.4					Freq Offset 0 Hz
-91.4 MULLI. IN MANY	aline and and a second second	สา-ระปีหระประกิจารประกอการประสงประกอ			
Start 150 kHz #Res BW 10 kHz		#VBW 30 kHz*	Sweep :	Stop 30.00 MHz 368.3 ms (1001 pts) 5 JC Coupled	
Aglient Spectrum Analyz GM RL   MF Center Freq 13.	015000000 GH	Z Fast Trig: Free Run	Avg Type: RMS Avg Hold: 6/100	10:32:45,AM Dec 08, 2018 TRACE 1 2 3 4 5 6 TYPE M WANNAW	Frequency
10 dB/div Ref 30	FGai IFGai 5et 7.98 dB 0.00 dBm	Fast Trig: Free Run n:Low #Atten: 40 dB		tkr2 25.688 GHz -31.640 dBm	Auto Tune
20.0	- 1077				Center Freq 13.015000000 GHz
10.0					Start Freq 30.000000 MHz
-10.0				-1.5,00 dbm	Stop Freq
-20.0				2	26.00000000 GHz CF Step
-40.0		and the second second second	manyum	man marker with	2.597000000 GHz <u>Auto</u> Man
-60.0					Freq Offset 0 Hz
-60.0 Start 30 MHz				Stop 26.00 GHz 64.93 ms (1001 pts)	
#Res BW 1.0 MH	z	#VBW 3.0 MHz*	Sweep (	64.93 ms (1001 pts)	

CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM
Addient Spectrum Analyzer         Swept SA           WF         S0 0 AbC         Settist:[hit]         Ag (ND2 CFF         (10:31:32 AM Dec 09; 2018)           Center Freq 79.500 kHz         Avg Type: RMS         Tract [2:3:4:5:6         Frequency           PN0: Wide         Trig: Frea Bun         Avg Hold :v100         Trig: Frequency
iFGain:Low #Atten: 22 dB
10 dB/div Ref 8.58 dBm -64.514 dBm
-1 42 Center Freq 79.500 kHz
41.4 Start Freq
-21.4 9.000 KHz
31.4 Stop Freq 150.000 kHz
-41.4
14.100 kHz Auto Man
27.4 Martin Mart
Start 9.00 kHz Stop 150.00 kHz
 #Res BW 1.0 kHz         #VBW 3.0 kHz*         Sweep 174.0 ms (1001 pts)           Mino         Intratual d_DC Coupled
Action Spectrum Analyzer Swept SA.
Fight Pres Run AvgHold; 9/00 tref Adda a
Ref Offset 8.58 dB Mkr1 5.493 MHz Auto Tune 10 dB/div Ref 8.58 dBm -63.094 dBm
-1.42 Center Freq 15.075000 MHz
-11.4 Start Freq
-21.4 150.000 KHz
-31.4
-41.8
-61 à CF Step 2.98500 M+iz Auto Man
61.4 FreqOffset
21.4 And the marked was and was and a second was and a second was and was and was a second was a
Start 150 kHz Stop 30.00 MHz
#Res BW 10 kHz #VBW 30 kHz* Sweep 368.3 ms (1001 pts)
 Aglient Spectrum Analyzer Swept SA 10 RL 9F 50 C #C SENSE:011 /Δ #100 CFF 100:31:911AM Dec(09,2018)
Center Freq 13.015000000 GHz PN0: Fast
Ref Offset 7-99 dB         Mkr2 25.688 GHz         Auto Tune           10 dB/div         Ref 30.00 dBm         -31.325 dBm         -31.325 dBm
200 Center Freq 13.015000000 GHz
100 01 Start Freq
0.00 30.00000 MHz
-10.0
20.0 26.00000000 GHz
30.0 CF Step 2.59700000 GHz Auto Man
40.0 million and a second seco
-60.0
Start 30 MHz Stop 26.00 GHz

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Agilent Spectrum Analyzer - Swe	st Graph(s) (Channel E			
Center Freq 79.500 I	A DC SENSE IN	Ava Type: RMS	TRACE 1 2 3 4 5 6 TVPE MINANANAN DET A A A A A A	Frequency
10 dB/div Ref Offset 8.5 Log	IFGain:Low #Atten: 22 dB		11.538 kHz 33.216 dBm	Auto Tune
-1.42				Center Freq
11.4				79.500 kHz
(1) (1) (1) (1) (1) (1) (1)				Start Freq 9.000 kHz
-31.4				
-41.4			-43.00 (Bm	Stop Freq 150.000 kHz
-61.4 -61.4				CF Step 14.100 kHz Auto Man
				Freq Offset 0 Hz
-81.4	man www.	and any and the second second second	Manan	
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 kHz*	Sto Sweep 174.0		
MSO		eratus 🔔 Di		
Agilent Spectrum Analyzer - Swe W RL 96 190.9	A DC SENSE:IN	ALIGN OFF 10:3	32:20 AM Dec 08, 2018	Frequency
Center Freq 15.0750	PNO: Fast	Avg Type: RMS Avg Hold: 9/100	TRACE 123456 TYPE MUMANANA DET A A A A A A	Frequency
10 dB/div Ref Offset 8.5		Mkr1 -€	7.792 MHz 33.482 dBm	Auto Tune
10 dB/div Ref 8.58 dE				Center Freq
-1.42				15.075000 MHz
-(1,4				Start Freq
-31.4				150.000 kHz
-31.4			-39:00 dlan	Stop Freq
-41.4				30.000000 MHz
-51 4				CF Step 2.985000 MHz
-61.4			_	<u>Auto</u> Man
71.4			1 1 1 1 1 1	Freq Offset
-31.4	regeneric harring provide and for a fair of the second second second second second second second second second			0 Hz
	""The office of the office off	harperted hybridge the state of the second	Araby ne (Telline, ) and (Mar 1997 Arabit	
Start 150 kHz #Res BW 10 kHz	#VBW 30 kHz*	Sweep 368.3		
MSG		eratus 🚣 Do	C Coupled	
Agilent Spectrum Analyzer - Swe Will RL RF 50 Q Center Freq 13.0150	AC SENSE IN	Avg Type: RMS	12:24 AM Dec 08, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 40 dB		TYPE MUMANAMA DET A A A A A A	Auto Tune
10 dB/div Ref 30.00 d	)8 dB JBm	WIKT2 -3	25.714 GHz 31.421 dBm	
	10.000			Center Freq
20.0				13.015000000 GHz
10.0				Start Freq 30.000000 MHz
0.00				30.000000 MH2
			-1 3,00 dtsin	Stop Freq
+10.0				28 00000000 011-
-10 0 -20 0				26.00000000 GHz
				CF Step 2.59700000 GHz
-20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CF Step
-30.0				CF Step 2.597000000 GHz Auto Man Freq Offset
20.0 -000 -40.0				CF Step 2.597000000 GHz Auto Man

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Report No.: LCS181130007AEG

Agilent Spectrum Analyzer Sw M RL 9F 209 Center Freq 79.500	ADC I	SENSE:INT	ALIGN OFF vg Type: RMS vg Hold: 10/100	J 10:32:57 AM TRAC TYP DE	Dec 08,2018	Frequency
Ref Offset 8. 10 dB/div Ref 8.58 d	PNO: Wide IFGain:Low	Trig: Free Run A #Atten: 22 dB		Mkr1 9.2		Auto Tune
-1 42						Čenter Freq 79.500 kHz
-11.4		-				Start Freq 9.000 kHz
-31.4					(3.02.45%)	Stop Freq 150.000 kHz
-51.4			-		43.00 (184)	CF Step 14.100 kHz Auto Man
-61.4 1 -71.4 Muy Mahas						Freq Offset
-131.4	warman and an and a second	www.w.w.w.	unpullingmethological	MMMMMM	unum lunut	0 Hz
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3	.0 kHz*	Sweep 1	Stop 15 74.0 ms ( DC Cou	1001 pts)	
Aellent Spectrum Analyzer Sw W/ RL PF 505 Center Freq 15.075	PNO: Fast	senuse:Iniri A Trig: Free Run Av	ALIGN OFF vg Type: RMS vg Hold: 9/100	10:39:02AM TRAC TYP DE	Dec 08, 2018	Frequency
10 dB/div Ref 8.58 d		Trig: Free Run A #Atten: 10 dB		1kr1 7.7		Auto Tune
-1.42						Center Freq 15.075000 MHz
-31.4						Start Freq 150.000 kHz
-31.4					-39:00 diam	Stop Freq 30.000000 MHz
-41.4						CF Step 2.985000 MHz
-51.4	<b>†</b>					<u>Auto</u> Man Freq Offset
-81.4	armanian providence of the pro	miller when we have a state of the second second	-114-4-1-4-114-114-14-14-14-14-14-14-14-	-ps-lather water	worken.Newty.Marker	0 Hz
Start 150 kHz #Res BW 10 kHz	#VBW 3	0 kHz*	Sweep 3	Stop 30 68.3 ms ( DC Cou	1001 pts)	
Agilent Spectrum Analyzer - Sw W RL RF 150 S Center Freq 13.015	00000 GHz	sense:init A Trig: Free Run A	ALIGN OFF vg Type: RMS /g Hold: 6/100	10:33:06 AM TRAC TYP DE	Dec 08, 2018	Frequency
10 dB/div Ref 30.00	IFGain:Low	#Atten: 40 dB		kr2 26.0 -31.27		Auto Tune
20.0						Center Freq 13.015000000 GHz
10.0 1 0.00						Start Freq 30.000000 MHz
-10.0		_			-13,00 dbin	Stop Freq 26.00000000 GHz
-20.0					2 marthing	CF Step 2.597000000 GHz
-40.0 -50.0	-			- Contraction - and and a	are vilager	Freq Offset
-60'0						0 Hz

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Report No.: LCS181130007AEG

allent See			est G	raph(s)	(Cha	nnel B	andwid	:h:20 N	/IHz)_L	.CH_Q	PSK
RI.		79.500		1	و بيني ال	SENSE:INT	Avg Typ Avg Hold	ALIGN OFF	10:39:21 A	M Dec 08, 2018 TE 1 2 3 4 5 6 TE M M M M M M M ST A A A A A A	Frequency
0 dB/di	R	ef Offset 8		PNO: Wide IFGain:Low	#Atter	ree Run : 22 dB	Avginer		lkr1 10.:	269 kHz 46 dBm	Auto Tune
1.42	-		111-								Center Freq 79.500 kHz
11 4											Start Freq 9.000 kHz
31.4	-										Stop Freq 150.000 kHz
41 4 61 4										-43.00 dBm	CF Step 14,100 kHz
61.4 1 71.4	<sup>5</sup> 20.10										Auto Man Freq Offset
81.4	- rujika	mon	man when	Manapark	ard put apprending	www.	mannamult	Mun And	www.	WWW WWWW	0 Hz
tart 9. Res B	.00 KH W 1.0	z kHz	-	#VE	SW 3.0 KH	Iz*		Sweep 1	74.0 ms (	1001 pts)	
BI		nalyzer - S	wept SA 9 (1) DC 5000 MF	- 1		sense:(n))	0	ALIGN OFF e: RMS : 9/100	10:39:26 A	A Dec 08 2018	Frequency
	R	ef Offset 8		IZ PNO: Fast IFGain:Low	Trig: F #Atter	ree Run : 10 dB	AvgHoid		Akr1 2.8	96 MHz	Auto Tune
0 dB/di	iv R	ef 8.58 (	dBm						-64.4	13 dBm	Center Freq 15.075000 MHz
11.4						-		-			Start Freq
31.4		-								-39:00 dfan	150.000 kHz Stop Freq
41.4 61.4											30.000000 MHz CF Step
51.4	•	1									2.985000 MHz <u>Auto</u> Man
71.4 81.4	n/W	formething	esternations.	riversilverhendelselst	identities, lawyod	www.		unan manalash	n book to be by by by	Nanana	Freq Offset 0 Hz
itart 1	50 kH	z KHz		#VE	W 30 KH	z*		Sweep 3	Stop 3	0.00 MHz 1001 pts)	
50		nalyzer S	wept SA	0.07		-		STATUS	DC Cou	apled	
enter			5000000	GHz PNO: Fast IFGain:Low		ree Run : 40 dB	Avg Typ Avg Hold		TVI	M Dec 08, 2019 E 1 2 3 4 5 6 T M M M M M M ST A A A A A A	Frequency Auto Tune
0 dB/di	iv R	ef Offset 7 ef 30.00	7,98 dB dBm	-	-		-	м	kr2 25.6 -31.2	88 GHz 79 dBm	Center Freq
20.0	$\Diamond^1$										13.015000000 GHz
0.00	Ť									<u> </u>	Start Freq 30.000000 MHz
20.0										-1 3,00 dbin	Stop Freq 26.00000000 GHz
30.0 —							Jan La	- Andrean and a start of the	-	mark	CF Step 2.597000000 GHz Auto Man
40.0 مەر		- marine	and the second second	ner have granted by	and a second	an the state of the second					Freq Offset 0 Hz
60.0								1			
start 3	0 MHz	MHz		#VE	W 3.0 M	Hz*		Sween 6	Stop 2	6.00 GHz 1001 pts)	

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CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK
Applient Spectrum Analyzer, Swapt SA         Serval: (Mr)         Application CPF         J0034004 M Dec.06, 2018         Frequency           Of R.L         ++         ≤0.0 (A, O, C)         -         Avg Type: RMS         mact [1,2:3:4:5:6]         Frequency           Center Freq 79.500 kHz         PN0: Wide ++         Trig: Free Run         Avg Type: RMS         mact [1,2:3:4:5:6]         Frequency           HCosinctow         #Atten: 22 dB         0 certil A a a a a         -         -         -
Ref Offset 9,69 dB Mkr1 9,141 kHz Auto Tune
10 dB/div Ref 8.58 dBm -66.639 dBm Center Freq 142 Center Freq 79.500 KHz
314 Start Freq 9.000 kHz
31.4 Stop Freq 150.000 kHz
414 4300 des
61.4 1
27 เล <sup>สม</sup> ญญาณาราชานินที่มาการที่มาการที่สามาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาราชานาร
Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz* Sweep 174.0 ms (1001 pts) wso ∲rravel ≰ DC coupled
Adlent Spectrom Analyzer.         Swept SA         Swept SA         Adlent Spectrom Analyzer.         Swept SA           00         RL         sociation         Adlent Spectrom Analyzer.         Swept SA         Swept SA           00         RL         sociation         Adlent SP SC Sociation         Swept SA         Swept SA           Center Freq 15.075000 MHz         Trig: Free Run         Avg Type: RMS         Trig: Free Run         Avg Type: RMS           Frequency         Frequency         Virte (Maxwaw)         Det (A & A & A & A
Lenter Fred 15.075000 MHz PND: Fast
1 42 Center Freq 15.075000 MHz
-11.4 Start Freq -51.4 150,000 KHz
31.4
414 
alla di anti anti anti anti anti anti anti ant
61.5 WAW The approximation of the second of
Start 150 kHz         Stop 30.00 MHz           #Res BW 10 kHz         #VBW 30 kHz*         Sweep 368.3 ms (1001 pts)           #so         #ranus & DC coupled
 Adjent Spectrum Analyzer - Smith SA A L SPEC STOC SC SHADE DIT AN DECOSO 2010 A L SPECTRUM CALL AND DECOSO 2010 Frequency
IFGainLow #Atten: 40 dB EFGainLow #Atten: 40 dB Atten Auto Tune
10 dB/div Ref 30.00 dBm31.141 dBm
100 1 Start Freq 30.00000 MHz
-10.0
200 200 CF Step 2.59700000 GHz
Freq Offset
4600 OHz

	CSE Te	est Graph(s) (	Channel Ba	andwidth:20	MHz)_HCH_	QPSK
LW RL	Spectrum Analyzer - Sv RF - 203	R ALDC	SENSE:INT	ALIGN OF	10:34:45.AM Dac 08, 2	Frequency
Cen	ter Freq 79.500	PNO: Wide -+ IFGain:Low	Trig: Free Run #Atten: 22 dB	Avg Type: RMS Avg Hold: 10/100	10:34:45,AM Dec 08, 31 TRACE 1 2 3 4 TYPE MWANNA DET A A A A	
10 de	Ref Offset 8. Ref 8.58 d	68 dB IBM			Mkr1 9.987 ki -64.260 dB	
-1.42	4.5.4 12.854	0 H T, T, T, T, T				Center Freq 79.500 kHz
-11.4						Start Freq
-21.4						9.000 kHz
-31.4						Stop Freq 150.000 kHz
-41.4					-43.00	CF Step
-51.4	.1					14.100 kHz Auto Man
-71.4	mangen	di seletti di se di				FreqOffset
-81.4		www.www.au	und hand have the sources	montrationant	Why Anton a sur and	0 Hz
Star	t 9.00 kHz		I'M &	· · · · · · · · · · · · · · · · · · ·	Stop 150.00 ki	12
#Res	BW 1.0 kHz	#VBW	/ 3.0 kHz*	Sweep	174.0 ms (1001 p	:s)
BI BI	Spectrum Analyzer - Sv	2 A DC	server:initi	ALIGN OR	10:34:51 AM Dec 08, 20	18
Cen	ter Freq 15.075	000 MHz PNO: Fast -+ IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Type: RMS Avg Hold: 9/100	UEI IS O O O	
10 de Log	Ref Offset 8. 8/div Ref 8.58 d				Mkr1 4.717 MH -67.050 dB	n Auto Tune
-1 42	1.1.1.1.1.1.1.1					Center Freq 15.075000 MHz
-11.4						
-21.4						Start Freq 150.000 kHz
-31.4	pr				-39:00	Stop Freq
-41.4					-	30.000000 MHz
-51.4						CF Step 2.985000 MHz Auto Man
-E(1.4						
-71.4	na Mondershow	Menquement	montesperates i		1.00.0	Freq Offset 0 Hz
-81.4	Web 4 June 1	vilaneigeneiter innaholyeed	and a sound of the fully	Victorionality of the second states of the second se	utra later was a stranger and	M
Star #Res	t 150 kHz BW 10 kHz		/ 30 kHz*	Sweep	Stop 30.00 Mi 368.3 ms (1001 p	1z
Artig	i Spectrum Analyzer - Sv	vept SA	_	ATA	mus 🔔 DC Coupled	
LX/ RL	ter Freq 13.015	2 AC	SENSE:INT	Avg Type: RMS Avg[Hold: 6/100	F 10:34:55 AM Dec 08, 34 TRACE 1 2 3 4 TVPE MWWWW DET A A A A	Frequency
	Ref Offset 7.		#Atten: 40 dB		Mkr2 25.974 GH -31.596 dB	z Auto Tune
10 de Log	Malv Ref 30.00				-01.000 dB	Center Freq
20.0						13.015000000 GHz
10.0						Start Freq 30.000000 MHz
-10.0						
20.0					.13,00)	26.00000000 GHz
-ac.o						2 CF Step 2.597000000 GHz
-40.0		Wards and a stranger and and and a stranger	mon	manner	mander and and the server	2.597000000 GHz Auto Man
-60.0						Freq Offset 0 Hz
-60.0						
Star	t 30 MHz		/ 3.0 MHz*		Stop 26.00 GI	łz
#Res	s BW 1.0 MHz	#VBW	3.0 WINZ*		64.93 ms (1001 p	.5)

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CSE	Fest Graph(s) (Cl	nannel Band	width:20 M	Hz)_LCH_16	QAM
Agilent Spectrum Analyze	50 9 A DC-	SENSE:INT	ALIGN OFF	10:39:41 AM Dat: 08, 2018	
Center Freq 79.5	PNO: Wide	Frig: Free Run Atten: 22 dB	Avg Type: RMS Avg Hold: 10/100	10:33:41 AM Dec 08, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET A A A A A A	Frequency
10 dB/div Ref 0ffs	IFGain:Low 4 at 8.58 dB 8 dBm			Mkr1 9.141 kHz -65.438 dBm	Auto Tune
1.42	10 H T T T T				Center Freq 79.500 kHz
-11.4					79.600 KHZ
					Start Freq 9.000 kHz
-21.4					1016 - IVI.
-31.4					Stop Freq 150.000 kHz
-41.4				-43.00 dBm	CF Step
-51.4					14.100 kHz Auto Man
-61.4 T					Freq Offset
-21 4 A A A WAYNAWA	Mp man of yman of the second			A 14 11 12 19 19 19	0 Hz
-81.4	1 1 WAY AND AND	where we we we we we have	And March March March	an hour way way	
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3	.0 KHz*	Sweep 1	Stop 150.00 kHz 74.0 ms (1001 pts)	
мао				DC Coupled	
Agilent Spectrum Analyze		sense:m)	Auton Off	10:33:47 AM Dac 08, 2018	Frequency
Center Freq 15.0	75000 MHz PNO: Fast	Frig: Free Run Atten: 10 dB	Avg Type: RMS Avg Hold: 9/100	TRACE 123456 TYPE MWWWWWW DET A A A A A A	1.00 · · · · · · · · · ·
10 dB/div Ref 8.5	et 8.58 dB 8 dBm		N	1kr1 2.866 MHz -65.889 dBm	Auto Tune
-1.42					Center Freq 15.075000 MHz
-11.4				1.1.1.1.1.1	
-31.4					Start Freq 150.000 kHz
-31.4	Apple of the second		11.	-39.00 dfsm	
.41.4				-35,00 484	Stop Freq 30.000000 MHz
-51.4					CF Step
·61.4 <b>1</b>	1				2.985000 MHz Auto Man
714 1 410	fillioned and a	1-1	2.01	2 1 1 1 1 1 1 1 1	Freq Offset
-01. a 14 WW TW VYY W/WWW	were bonhuse more reconciliation wind	alsome why we are may don	unquenteringentering	MATHAMANA	0 Hz
	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1.1.1.1.1			
Start 150 kHz #Res BW 10 kHz	#VBW 3	0 kHz*		Stop 30.00 MHz 68.3 ms (1001 pts)	
Agilent Spectrum Analyze	Swept SA		STATUS	DC Coupled	
Center Freq 13.0	15000000 GH-	sense:inir  Frig: Free Run	Avg Type: RMS Avg Hold: 6/100	10:33:50 AM Dec 06, 2018 TRACE 1 2 3 4 5 6 TYPE MUMUUWW DET A A A A A A	Frequency
	IFGain:Low #	Atten: 40 dB		kr2 25.766 GHz	Auto Tune
10 dB/div Ref 30.	et 7.98 dB 00 dBm			-31.496 dBm	
20.0					Center Freq 13.015000000 GHz
10.0					Diam'r
0.00		_			Start Freq 30.000000 MHz
-10.0				-13,00 dtsm	Stop Fred
-20.0				- 12,00 dBm	Stop Freq 26.000000000 GHz
-30.0				3	CF Step
40.0		in the second second	- warman	mon and more that	2.597000000 GHz Auto Man
-50.0	and the second second second second		- 11 (		Freq Offset
-60.0					0 Hz
				S	
Start 30 MHz #Res BW 1.0 MHz	#VBW 3	.0 MHz*	Sweep 6	Stop 26.00 GHz 4.93 ms (1001 pts)	
MSO			STATUS	and the second se	

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					hannel Ba		alyzer Swept SA	it Spectrum And	Agilent
Frequency	1 Dec 08, 2018 E 1 2 3 4 5 6 E MMMMMM T A A A A A A	10:34:25 AM TRAC	ALION OFF : RMS : 10/100	Avg Typ	SENSE:INT	PNO: Wildo - T	79.500 kHz	L RF	LW RL
Auto Tune	000 kHz 99 dBm	Akr1 9.0			#Atten: 22 dB	PNO: Wide IFGain:Low	Offset 8.58 dB 8.58 dBm	Bidiv Ref	10 de Log r
Center Freq 79.500 kHz						-			-1.42
Start Freq 9.000 kHz			-						-11.4
Stop Freq 150.000 kHz									-31.4
CF Step 14.100 kHz	-43.00 dBm					1			-41.4
Auto Man Freq Offset		_	-	-				1	-61.4
0 Hz	An MANNAM	MAD. 4.00M	American	when the had be	waynalupulativitativitati	May marker Age	M. W. Walland	y manappa	-71.4
			Sweep 1	<u>n a</u>	3.0 kHz*			t 9.00 kHz s BW 1.0 k	
	pled	DC Cou			semiser thin	_	alyzer - Swept SA	nt Spectrum Ana	Agilent
Frequency	E 123456 E MMMMMM T A A A A A A	TRACI TVP DE	: RMS : 9/100	Avg Typ Avg Hold	Trig: Free Run #Atten: 10 dB	Hz PNO: Fast	15.075000 M		
Auto Tune	68 MHz 35 dBm	kr1 2.5	٨		Practice in the	reamicow	Offset 8.58 dB 8.58 dBm	Bidiv Ref	10 dE
Center Freq 15.075000 MHz									-1.42
Start Freq 150.000 kHz						1			-11.4
Stop Freq 30.000000 MHz	-39.00 df¥n		-			-			-31.4
		-							-41.4
CF Step 2.985000 MHz Auto Man	1					1	C		-61.4
Freq Offset 0 Hz					melinera	Munichan	erreture horacian traditioner	allowed May	71.4
	wither	maismonth right which	uniored trial other	whitewardshipping	vortul-windown whether solition				-81.4
_		Stop 30 58.3 ms (*	Sweep 3	-	30 KHZ*	#VBW	Hz	t 150 kHz s BW 10 kH	Star #Res
Frequency	1Dac 08, 2018	]10:34:34 AV	ALIGN OFF	Avg Typ Avg Hold	SENSE:INT	0 GHz	alyzer Swept SA	1 RF	BI BI
Auto Tune	10 GHz	r2 25.6		AvgHold	Trig: Free Run #Atten: 40 dB	PNO: Fast IFGain:Low	Offset 7.98 dB 5 30.00 dBm	Ref	
Center Freq	41 dBm	-51.54	-				30.00 dBm	B/div Ref	10 de Log
13.015000000 GHz									10.0
Start Freq 30.000000 MHz									0.00
Stop Freq 26.00000000 GHz	-1 3,00 dbm								-10.0
CF Step 2.59700000 GHz	and have the	1							-30.0
Auto Man	and's	war winner an	and the second secon		any marked and a sol	an marked	-	manut	-40.0
1									
Freq Offset 0 Hz									-60.0

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<b>1,377</b> B	RL	req 79.	50 9 11	SA DC	Í.	1.	SENSE		Avg Ty Avg[Hol	ALIGN OFF	10:35:06 TB	AM Dec 08, 2018	Frequency
0.01	1.01 11			ů.	PNO: Wide FGain:Low	Tri #At	g: Free F ten: 22 d	lun IB	AvgHol	1: 10/100		AM Dec 06, 2018 ACE 1 2 3 4 5 6 YPE MUMANAMA DET A A A A A A 282 kHz	Auto Tune
10 c	B/div	Ref Offs Ref 8.	set 8.68 d 58 dBm	dB n	_						-65.4	594 dBm	
-1.42	ě	-			-	-	-	_					Center Freq 79.500 kHz
-11.4													Start Freq 9.000 kHz
-31.4													Stop Freq
-41.4	a											-43.00 dBm	150.000 kHz CF Step
-61.4	1-		1			_			-				14.100 kHz <u>Auto</u> Man
-71.4	Y Y Y	WYMAN	Madura	hhum	Auran	M. AMAA	Amoran	nuli	ALM.A.	nkwa <sup>M</sup> an	No.	4	Freq Offset 0 Hz
Sta				1 - 2				NAME OF ALL	VNA A WARNA		stop i	150.00 KHZ	
#Re	es BW	1.0 KHz			#V	BW 3.0	kHz*				174.0 ms	(1001 pts)	
D 30/ 19	RI	req 15.0	TO OAL		1	ير ال	g: Free R		Avg Ty	e: RMS 1: 9/100	]10:35:12 IB.	AM Dec 08, 2018 ACE 1 2 3 4 5 6 YPE M WAAWAAA DET A A A A A A	Frequency
10 6	B/div	Ref Offs	set 8.68 d		PNO: Fast FGaln:Low	#A	ten: 10 d	в	AV BILLOI			628 MHz 447 dBm	Auto Tune
-1 42	2												Center Freq 15.075000 MHz
-11.4	4												Start Freq 150.000 kHz
-31.4						-						-37.00 dfsm	Stop Freq 30.000000 MHz
-41.4	4												CF Step
-61.4	۰	•					_	_					2.985000 MHz <u>Auto</u> Man
-71.4	hown	Whiten	Annantes	You berge	holymout	mundering	maladara	المنعادية م			1	-lifesonierosaitrae	Freq Offset 0 Hz
Sta	rt 150 1	kHz						-THYUN,	Northerest.		Stop	30.00 MHz	
MSG		10 KHz			#V	BW 30	kHz*		_		368.3 ms	(1001 pts) oupled	
A.W. P	RL	req 13.0	50 Q 4		GHz		g: Free F		Avg Tyj Avg Hol	4 ALIGN OFF e: RMS 1: 6/100	] 10:35:15 IR. T	AM Dec 08, 2018 ACE 1 2 3 4 5 6 YPE MWAAWAAA DET A A A A A A	Frequency
10 c	B/div	Ref Offs Ref 30	et 7.98 d		PNO: Fast FGain:Low	#Ai	ten: 40 d	B			1kr2 25.	818 GHz 324 dBm	Auto Tune
20.0	1.0												Center Freq 13.015000000 GHz
10.0		21											Start Freq 30.000000 MHz
-10.0	1.11											-13,00 dbin	Stop Freq
-20.0	,												26.00000000 GHz
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-50.0	manner	iven male		- number	men	*****							Freq Offset 0 Hz
-60.0	1												
0.00	rt 30 M	IHZ	-1-		#V			_	*		Ston	26.00 GHz	

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