SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AJMSP500 Report No.: LCS181225001AEG

Appendix F: Test Data for E-UTRA Band 5

Product Name: POS Terminal Trade Mark: SmartPeak Test Model: P500

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

F.1 Conducted Output Power

		Conducted	Output Pow	ver Test Result (Channel Band	width: 1.4 MHz)	
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	24.02	23.25	PASS
		1	3	24.20	23.47	PASS
		1	5	24.05	23.30	PASS
	LCH	3	0	24.19	23.26	PASS
		3	2	24.21	23.28	PASS
		3	3	24.14	23.24	PASS
		6	0	23.18	22.08	PASS
		1	0	24.34	23.61	PASS
		1	3	24.41	23.75	PASS
		1	5	24.34	23.61	PASS
	MCH	3	0	24.18	23.11	PASS
TOQAIN		3	2	24.17	23.09	PASS
		3	3	24.05	23.17	PASS
		6	0	23.24	22.25	PASS
		1	0	23.90	22.98	PASS
		1	3	23.81	23.17	PASS
		1	5	23.63	22.91	PASS
	HCH	3	0	23.74	22.90	PASS
		3	2	23.77	22.88	PASS
		3	3	23.72	22.88	PASS
		6	0	23.21	22.23	PASS

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		Conducte	d Output Po	wer Test Result (Channel Ban	dwidth: 3 MHz)	
Modulation	Channel	RB Cont	figuration	Average Power [dBm]	Average Power [dBm]	Vordiot
wouldtion	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.77	22.93	PASS
		1	7	23.99	23.23	PASS
		1	14	23.73	22.93	PASS
	LCH	8	0	23.24	22.69	PASS
		8	4	23.33	22.61	PASS
		8	7	23.38	22.66	PASS
		15	0	23.18	22.17	PASS
		1	0	24.37	23.30	PASS
		1	7	24.45	23.52	PASS
		1	14	24.13	23.26	PASS
	MCH	8	0	23.02	22.10	PASS
IOQAIVI		8	4	23.08	22.28	PASS
		8	7	23.10	22.43	PASS
		15	0	23.14	21.92	PASS
		1	0	23.91	23.32	PASS
		1	7	24.09	23.49	PASS
		1	14	23.81	23.16	PASS
	НСН	8	0	23.24	22.39	PASS
		8	4	23.46	22.25	PASS
		8	7	23.23	22.36	PASS
		15	0	23.10	22.15	PASS

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		Conducte	d Output Pov	wer Test Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat
wouldtion	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	24.13	23.10	PASS
		1	12	24.34	23.80	PASS
		1	24	23.92	23.27	PASS
	LCH	12	0	23.47	22.64	PASS
		12	6	23.12	22.43	PASS
		12	13	23.46	22.74	PASS
		25	0	23.17	22.18	PASS
		1	0	24.27	23.22	PASS
		1	12	24.50	23.60	PASS
		1	24	24.22	23.40	PASS
	MCH	12	0	23.29	22.57	PASS
IOQAIN		12	6	23.48	22.80	PASS
		12	13	23.46	22.72	PASS
		25	0	23.11	22.12	PASS
		1	0	23.79	22.82	PASS
		1	12	24.11	23.12	PASS
		1	24	23.68	22.79	PASS
	НСН	12	0	23.25	22.41	PASS
		12	6	23.39	22.62	PASS
		12	13	23.11	22.43	PASS
		25	0	23.30	22.63	PASS

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		Conducted	Output Pov	ver Test Result (Channel Band	dwidth: 10 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiat
wooulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	23.99	22.91	PASS
		1	24	24.17	23.17	PASS
		1	49	23.99	23.23	PASS
	LCH	25	0	23.41	22.56	PASS
		25	12	23.33	22.70	PASS
		25	25	23.35	22.56	PASS
		50	0	23.14	22.15	PASS
		1	0	23.99	23.19	PASS
		1	24	24.12	23.34	PASS
		1	49	23.90	23.12	PASS
	MCH	25	0	23.31	22.36	PASS
IOQAIVI		25	12	23.41	22.43	PASS
		25	25	23.46	22.49	PASS
		50	0	23.41	22.45	PASS
		1	0	24.11	23.25	PASS
		1	24	24.12	23.45	PASS
		1	49	23.75	23.10	PASS
	НСН	25	0	23.35	22.46	PASS
		25	12	23.38	22.67	PASS
		25	25	23.30	22.44	PASS
		50	0	23.27	22.45	PASS

F.2 Peak-to-Average Ratio

	Peak-to Average Rat	tio Test Result (Channel	Bandwidth: 1.4 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Vardiat
Modulation	Ghanner	[dB]	[dB]	Verdict
	LCH	5.33	<13	PASS
QPSK	MCH	5.74	<13	PASS
	НСН	5.57	<13	PASS
	LCH	6.25	<13	PASS
16QAM	MCH	6.66	<13	PASS
	НСН	6.6	<13	PASS

	Peak-to Average Ra	atio Test Result (Channel	Bandwidth: 3 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict
MODULATION	Ghannei	[dB]	[dB]	Verdict
	LCH	5.48	<13	PASS
QPSK	MCH	5.72	<13	PASS
	HCH	5.71	<13	PASS
	LCH	6.38	<13	PASS
16QAM	MCH	6.66	<13	PASS
	HCH	6.53	<13	PASS

	Peak-to Average Ra	atio Test Result (Channel	Bandwidth: 5 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict
MODUIATION	Channel	[dB]	[dB]	Verdict
	LCH	5.5	<13	PASS
QPSK	MCH	5.77	<13	PASS
	HCH	5.66	<13	PASS
	LCH	6.33	<13	PASS
16QAM	MCH	6.56	<13	PASS
	HCH	6.4	<13	PASS

	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 10 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Vardiat
wooulation	Channel	[dB]	[dB]	Verdict
	LCH	5.59	<13	PASS
QPSK	MCH	5.67	<13	PASS
	HCH	5.68	<13	PASS
	LCH	6.32	<13	PASS
16QAM	MCH	6.41	<13	PASS
	HCH	6.41	<13	PASS

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Peak-to Average	Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)	_HCH_QPSK
Agilent Spectrum Analyzer Power Stat C IXI RL RF 50 g AC Center Freq 848.300000 N	CDF SENSE:INTI ALIONAUTO [03:06:35 PMDec 27, 20] TH2 Trigs: Freq: 848,300000 MHz ALIONAUTO [03:06:35 PMDec 27, 20] Trigs: Freq: 848,300000 MHz Radio Std: None #IFGain:Low #Atten: 36 dB	Frequency
Average Power	100 % Gaussian	
23.61 dBm		Center Freq 848.300000 MHz
46.25 % at 0dB 10.0 % 2.62 dB 1.0 % 4.49 dB 0.1 % 5.57 dB 0.01 % 6.11 dB 0.001 % 6.29 dB 0.0001 % dB Peak 6.42 dB 30.03 dBm	0.001 % 0.0001 % 0.0001 % 0.000 MHz 0.000 MHz 0.000 MHz	CF Step 5.00000 MHz Auto Man Freq Offset 0 Hz

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Peak-to Average Patio Test Graph(s) (Channel Bandwidth: 1 / MHz) HCH 160AM
Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 848,300000 MHz Center Freq: 848,300000 MHz Radio Std: None Frequency
#IEGaintiow #Atten: 36 dB
Average Power Gaussian
22.70 dBm
49.0000 MHZ
43.82 % at 0dB
10.0 % 3.01 dB 0.1 %
1.0 % 5.18 dB
0.01% 7.23 dB
0.001 % 7.45 dB
0.0001 % dB 0.001 % 0Hz
Peak 7.62 dB
30.32 dBm
0.0001 % 0 dB 20 dB
Info BW 1.5000 MHz

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Peak-to Average Ra	atio Test Graph(s) (Channel Bandwidth: 3 MHz)	HCH_QPSK
Applent Spectrum Analyzer - Dewer State 0	ICED/T SEMBLE INT ALIONAUTO 005 11:00 FMDec 37, 2019 MHZ Center FFeg: 847,500000 MHz Radio Std: None #IFGainLow Trig: FFeg: 847,500000 MHz Counts:500 k/500 kpt #HGainLow #Atten: 36 dB Counts:500 k/500 kpt	Frequency
Average Power 23.62 dBm	100 % Gaussian	Center Freq 847.500000 MHz
45.63 % at 0dB		
10.0 % 2.46 dB 1.0 % 4.43 dB	0.1 %	
0.1 % 5.71 dB 0.01 % 6.42 dB 0.001 % 6.88 dB	0.01 %	CF Step 5.00000 MHz <u>Auto</u> Man
0.0001 % dB Peak 6.99 dB	0.001 %	Freq Offset 0 Hz
50.01 dBm	0.0001 % 0 dB 20 dB 20 dB 20 dB	
M3K3	STATUS	

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Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM
Aplent Spectrum Analyzer, Dever Star COFF Applent Spectrum Analyzer, Dever Star COFF Center Freq 847.500000 MHz Center Freq 847.50000 MHz Radio Std: None Center Freq 847.500 MS0 MHZ Center Freq Star Counts 500 MS00 kpt Frequency
Average Power Gaussian
22.70 dBm Center Freq 43.37 % at 0dB 10 % 1 % 1 %
10.0 % 2.96 dB 1.0 % 5.11 dB 0.1 % 0.1 % 0.1 % 6.53 dB 0.01 % 7.30 dB
0.001 % 7.84 dB 0.0001 % dB Peak 8.04 dB 30.74 dBm 0.0001 % 0 dB Info BW 3.0000 MHz 20 dB
MBG STATUS

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Peak-to Average Ra	tio Test Graph(s) (Channel Bandwidth: 5 MHz)	HCH_QPS
Adlent Spectrum Analyzer _ Power Stat M_RL DP _ 200 Ac Center Freq 846.500000	Control Strike 9.71 Alk97AUTO (03) 15.27 (Mbc 27, 2018) MHz	Frequency
Average Power 23.58 dBm 46.77 % at 0dB	100 % Gaussian	Center Freq 846.500000 MHz
	1 %	
10.0 % 2.38 dB 1.0 % 4.46 dB 0.1 % 5.66 dB	0.1 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 6.35 dB 0.0001 % 6.75 dB 0.0001 % dB Peak 7.09 dB	0.001 %	Freq Offset 0 Hz
30.67 dBm	0.0001 % 0 dB 20 dB 20 dB 100 0 MHz	

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Pea	ak-to Average Ration	o Test Graph(s) (Channel Bandwidth: 5 MHz)	_HCH_16QAM	
	Slent Spectrum Analyzer - Power Stat C RL RP S00 AC enter Freq 846,500000 W	ADT SENSE:NT] ALKONAUTO [03:15:36 PMDec 27, 2011 HZ Canter Freq: 846.600000 MH2 Trig: Free Run Counts:500 k/500 kpt #Atten: 88 dB	Frequency	
	22.62 dBm 44.54 % at 0dB	100 % Gaussian 10 %	Center Freq 846.500000 MHz	
	10.0 % 2.88 dB	0.1 %		
	0.1 % 6.40 dB 0.01 % 7.20 dB 0.001 % 7.94 dB	0.01 %	CF Step 5.000000 MHz Auto Man Freq Offset	
	0.0001 % dB Peak 8.35 dB 30.97 dBm	0.001 %	0 Hz	
MS	a			

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Peak-to Average Rat	io Test Graph(s) (Channel Bandwidth: 10 MHz	_HCH_QPSK
Adient Spettra Andrzer. Bower Stat Market Center Freq 844.000000 M	Interference Septement Allonauto 00319/99140ec 27, 2019 WHz Center Freq: 844 000000 MHz Radio Std: None #IFGain:Low Frig: Free Run Counts:500 k/500 kpt	Frequency
Average Power 23.68 dBm	100 % Gaussian	Center Freq 844.00000 MHz
46.43 % at 0dB	10 %	
10.0 % 2.32 dB 1.0 % 4.45 dB 0.1 % 5.68 dB	0.1 %	CF Step
0.01 % 6.43 dB 0.001 % 6.81 dB	0.01 %	Auto Man Freq Offset
0.0001 % dB Peak 7.20 dB 30.88 dBm		0 Hz
MBG	0 dB 20 dB 20 dB 10 m m m m m m m m m m m m m m m m m m	

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Peak-to Average Ratio	o Test Graph(s) (Channel Bandwidth: 10 MHz)	_HCH_16QAM
Aplient Spectrum Analyzer, Bower Stat RL 100 PC 100 Center Freq 844.000000 N	COF SENSE INT ALIGNAUTO 002:00:09 PMDec 27, 2018 MHZ Center Freq: 844,0000000 MHz Radio Std: None Trig: Freq: 844,0000000 MHz Radio Std: None #IFGain:Low #Atten: 36 dB	Frequency
Average Power 22.75 dBm	100 % Gaussian	Center Freq 844.00000 MHz
44.43 % at 00B	1 %	
10.0 % 2.90 dB 1.0 % 5.09 dB 0.1 % 6.41 dB 0.01 % 7.29 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.92 dB 0.0001 % dB Peak 8.37 dB 31.12 dBm	0.001 %	Freq Offset 0 Hz
мва	0 dB 20 dB 20 dB 80000 MHz 810000 MHz	

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F.3 26dB Bandwidth and Occupied Bandwidth

	EBW & OBW Te	est Result (Channel Band	lwidth: 1.4 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordict
wouldtion	Channel	(MHz)	(MHz)	Verdict
	LCH	1.0767	1.227	PASS
QPSK	MCH	1.0749	1.209	PASS
	HCH	1.0757	1.226	PASS
	LCH	1.0788	1.210	PASS
16QAM	MCH	1.0782	1.239	PASS
	НСН	1.0772	1.235	PASS

	EBW & OBW T	est Result (Channel Ban	dwidth: 3 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vardiat
MODUIATION	Channel	(MHz)	(MHz)	Verdict
	LCH	2.6772	2.826	PASS
QPSK	MCH	2.6794	2.821	PASS
	НСН	2.6796	2.819	PASS
	LCH	2.6769	2.835	PASS
16QAM	MCH	2.6825	2.844	PASS
	НСН	2.6772	2.837	PASS

	EBW & OBW T	est Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordict
MODULATION	Channel	(MHz)	(MHz)	Verdict
	LCH	4.4746	4.786	PASS
QPSK	MCH	4.4708	4.843	PASS
	HCH	4.4719	4.857	PASS
	LCH	4.4665	4.848	PASS
16QAM	MCH	4.4778	4.823	PASS
	HCH	4.4734	4.870	PASS

	EBW & OBW Te	est Result (Channel Band	lwidth: 10 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vardiat
wodulation	Channel	(MHz)	(MHz)	Verdici
	LCH	8.9454	9.474	PASS
QPSK	MCH	8.9464	9.514	PASS
	HCH	8.9308	9.491	PASS
	LCH	8.9343	9.529	PASS
16QAM	MCH	8.9364	9.451	PASS
	HCH	8.9407	9.443	PASS

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Agilent Spectrum	BW & C		est Gr	aph(s) (Chan	nel Ban	dwidth:	1.4 MHz	z)_HCH_	_QPSK
Center Free	q 848.300 Ref Offset Ref 20.0	2000 MH2 #IFI #IFI #IFI #IFI #IFI #IFI #IFI #IF	Z Gain:Low	Center F Trig: Fre #Atten: 3	req: 848.300 e Run :0 dB	0000 MHz Avg Hold	1: 10/10	Radio Std: Radio Dev	i None vice: BTS	Frequency
-10.0 -20.0 -30.0 -40.0 -40.0 -40.0 -60.0 -70.0	and the second s		//toxxe=dde/c	**************************************				4. marcal	Selended Science	Center Freq 848.300000 MHz
Center 848.3 MHz #Res BW 15 kHz Occupied Bandwidth			#VBW 43 kHz					Spar #Sweep 5 dBm	CF Step 280.000 kHz <u>Auto</u> Man	
Transmit x dB Bar	t Freq Eri ndwidth	1.07 ^{ror}	2.033 I -2.033 I 1.226 N	HZ kHz /IHz	OBW P x dB	ower	99 -26.	9.00 % 00 dB		Freq Offset 0 Hz

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Rt PF DOG ALL State Strip ALLOWATO DOBATION Redic Strip	Agilem	EBW	V & OBW	Test Gra	aph(s)	(Chann	el Bano	dwidth: 1	.4 MHz	:)_HCH_	16QAM	
Log Image: Constraint of the second seco		ter Freq 84	50 Q AC 48.300000 Mi # of Offset 10.85 dB ef 20.00 dBm	Hz IFGain:Low	Center F Trig: Fre #Atten: 3	INSE:INT Freq: 848.3000 Run 30 dB	000 MHz Avg Hold	ALIGNAUTO I: 10/10	Radio Std Radio Dev	MDec 27, 2018 I: None vice: BTS	Frequency	
Center 848.3 MHz Span 2.8 MHz CF Step #Res BW 15 kHz #Sweep 100 ms 200.000 kHz Occupied Bandwidth Total Power 26.7 dBm 1.0772 MHz Freq offset Transmit Freq Error 449 Hz OBW Power 99.00 % x dB Bandwidth 1.235 MHz x dB -26.00 dB	Loa 7 10 0 000 -10.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0 -20.0	upp. Annal of Left al Ar	and a second second		an-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		-1990-99-14-19-1-94	A A A A A A A A A A A A A A A A A A A	Kranska, jeger V	Levenser to yingers	Center Freq 848.300000 MHz	
1.0772 IVIHZ Freq Offset Transmit Freq Error 449 Hz OBW Power 99.00 % 0 Hz x dB Bandwidth 1.235 MHz x dB -26.00 dB	Ceni #Ret	Center 848.3 MHz #Res BW 15 kHz Occupied Bandwidth			#VBW 43 kHz					Span 2.8 MHz #Sweep 100 ms 26.7 dBm		
	TT X	ransmit Fre dB Bandw	1.U eq Error <i>i</i> idth	449 1.235 N	HZ Hz /IHz	OBW Po x dB	ower	99 -26.1	0.00 % 00 dB		Freq Offset 0 Hz	

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Agilent Spectrum An	alyzer - Occupie 50 Ω Αα	ed BW ⊂		SE Center F	NSE:INT	000 MHz	ALIGN AUTO	D 03:	:22:04 PM	Dec 27, 2018	Frequency
Center Fred	847.50000	U WH #IF	IZ FGain:Low	#Atten: 3	e Run 0 dB	Avg Hold:	10/10	Radi	lio Devi	ce: BTS	
10 dB/div	Ref Offset 10.8 Ref 20.00 d	85 dB Bm									
10.0			and a state of the	an Internetion	การสาราสาราสาราช		m				Center Freq
-10.0		1						_			847.500000 MHz
-20.0											
-40.0	A have a start	~					<u></u> <u></u>	inter haldinge	marate a	the second s	
-60.0								_			
Center 847.5	MHz								Spa	n 6 MHz	
#ResBW 301	kHz			#V	BW 91 KH	lz		#S	sweep	100 ms	CF Step 600.000 kHz
Occupied	l Bandwi	dth	700 MIL	1-	Total P	ower	26	.8 dB	m		<u>Auto</u> Man
Transmit F	rea Error	2.07	-2.857 k	HZ HZ	OBW P	ower	,	99.00	%		Freq Offset 0 Hz
x dB Band	width		2.819 №	IHz	x dB		-2	6.00 d	зB		

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Agilent Spectrum Analyzer - Occupied BW LM RF 50 Ω AC	SE	NSE:INT AL	IGNAUTO 03:22:12 PMDec 27,	2018 Frequency
Center Freq 847.500000 MH	HZ Center Fi Trig: Free FGain:Low #Atten: 30	req: 847.500000 MHz e Run Avg Hold: 1 0 dB	Radio Std: None 10/10 Radio Device: BT	5
10 dB/div Ref 20.00 dBm Log	Language and a second a	rainen marin an		Center Freq
-10.0				847.500000 MHz
-20.0 -30.0 -40.0 March man march and a second			In a some some some and some and	4
-60.0				
Center 847.5 MHz #Res BW 30 kHz	#VE	3W 91 kHz	Span 6 P #Sweep 100	1Hz CF Step
Occupied Bandwidth	772 MHz	Total Power	25.8 dBm	Auto Man
Transmit Freq Error	-5.057 kHz	OBW Power	99.00 %	Freq Offset 0 Hz
x dB Bandwidth	2.837 MHz	x dB	-26.00 dB	

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Agilent Spectrum Analyzer - Occupied BW W RL RF 50 Ω AC Constant Error 946 500000 MH	Si Center I	INSE:INT	ALIGNAUTO 03:22:59 PMDec 27, 2018 Radio Std: None	Frequency
Center Fred 840.500000 Mi	FGain:Low #Atten:	e Run Avg Hold: 30 dB	10/10 Radio Device: BTS	
Ref Offset 10.85 dB				1
Log 10.0 0.00	***	there with the second	~	Center Freq 846,500000 MHz
-10.0				
-20.0				
-40.0 manager and the state of			Marrow window proto and a stranger	
-50.0				
-70.0				
Center 846.5 MHz #Res BW 56 kHz	#V	BW 160 kHz	Span 10 MHz #Sweep 100 ms	CF Step
Occupied Bandwidth		Total Power	26.1 dBm	Auto Man
4.4	719 MHz			Freg Offset
Transmit Freq Error	-6.304 kHz	OBW Power	99.00 %	0 Hz
	4 857 MHz	x dB	-26 00 dB	

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Agilent Spectrum Analyzer - Occup M RL RF 50 Ω Center Freq 846.5000	AC OO MH2	Z Ce	SENSE:INT enter Freq: 846.500 ig: Free Run	A A NG MHz Avg Hold:	LIGN AUTO	03:23:08 P Radio Std	MDec 27, 2018 : None	Frequency
Ref Offset 10 10 dB/div Ref 20.00	#IF	Gain:Low #A	tten: 30 dB			Radio Dev	/ice: BTS	
Log 10.0 0.00	-	hangeriken gesternen versellen hi	lasterariation and the second		~			Center Freq 846.500000 MHz
-10.0 -20.0 -30.0					L.			
-40.0					, ev.		and a second	
-70.0								
Center 846.5 MHz #Res BW 56 kHz			#VBW 1601	Hz		Spa #Sweej	n 10 MHz p 100 ms	CF Step 1.000000 MHz
Occupied Bandw	/idth 4.47	'34 MHz	Total P	ower	25.1	l dBm		Auto Man
Transmit Freq Erro	r	-5.621 kHz	OBW F	ower	99	9.00 %		0 Hz
x dB Bandwidth		4.870 MHz	x dB		-26.	00 dB		

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Center Freq 844.000000	MHz Center Fr #IFGain:Low #Atten: 30	NSE:INT AI req:844.0000000 MHz e Run Avg Hold:1 0 dB	LIGNAUTO 03:23:52 PMDec 27, 2018 Radio Std: None 10/10 Radio Device: BTS	Frequency
Ref Offset 10.85 10 dB/div Ref 20.00 dB	dB m]
10.0 0.00	jandanakanakanakanakanakanakanakanakanaka	anderstrond attend to the second and the second attend of the second attend of the second attend of the second		Center Freq 844.000000 MHz
-10.0	A			
-30.0 -40.0			But and an and a strengthered	
-60.0				
Center 844 MHz #Res BW 110 kHz	#VE	330 kHz	Span 20 MHz #Sweep 100 ms	CF Step 2.000000 MHz
Occupied Bandwid	th 9308 MHz	Total Power	25.6 dBm	<u>Auto</u> Man
Transmit Fred Error	-1.703 kHz	OBW Power	99.00 %	Freq Offset 0 Hz

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Agilen LXI R	t Spectrum	Analyzer - O	cupied BW	-		ENSE:INT		ALIGNAUTO	- 03:24:00 P	MDec 27, 2018	·_ · · · · · · · ·
Cen	ter Fre	q 844.00	0000 M	Hz ¥IFGain:Low	Center Trig: Fr #Atten:	Freq: 844.000 se Run 30 dB	0000 MHz Avg Hold	: 10/10	Radio Std Radio Dev	: None vice: BTS	Frequency
10 d Log	3/div	Ref Offse Ref 20.	t 10.85 dE 00 dBm	3			1				
10.0 0.00							Annan an Indonesia				Center Freq 844.000000 MHz
-10.0			- see					N.			
-40.0	18-1-19-1-19-1-19-1 19-1-19-1-19-1-19-1-		and the second s					1 N	· ····	and the state of the	
-60.0 -70.0	-	_									
Cen #Re	ter 844 sBW 1	MHz 10 kHz			#\	BW 3301	KHZ		Spa #Swee	n 20 MHz p 100 ms	CF Step 2.000000 MHz
0	ccupi	ed Ban	dwidth 8.9	407 M	Hz	Total P	ower	24.	7 dBm		<u>Auto</u> Man
т	ransmi	t Freq Ei	TOF	-9.175	kHz	OBW P	ower	9	9.00 %		0 Hz
×	dB Ba	ndwidth		9.443	MHz	x dB		-26	.00 dB		

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F.4 Band Edge

	E	Band	Edge	Test G	Graph(s	s) (Cha	annel	Bandw	idth: 1	.4 MH:	z)_LCŀ	I_QPSK	
	^{ilent Sp} RL ente l	r Freq	nalyzer - Swe F 50 Ω 824.000	AC 000 MH2	Z NO: Wide	SEM	SE:INT	Avg Type Avg Hold:	LIGNAUTO : RMS 19/100	03:24:21 PM TRAC TYP	1Dec 27, 2018 E 1 2 3 4 5 6 E MWWWWW	Frequency	
19	dB/d	Re iv R e	f Offset 10. f 20.00 c	.77 dB 1Bm	3ain:Low	#Atten: 30) dB		Mkı	1 824.0 -23.8	00 MHz 99 dBm	Auto Tune	
10	0.0						٣	n tunu shared the set	979142-176- ² 04 439 949		Bugay of the same the	Center Freq 824.000000 MHz	
-10											10.00 /0	Start Freq 823.000000 MHz	
-20	0.0						1 ⁴⁴⁰				-13.00 dbm	Stop Freq	
-30	0.0 0.0	hy ^{, qqa} ill ^{il} anaqq	New y the social of the	pringhtad weather of the	Catograph Streetwood	terenter and the						CF Step	
-50	0.0											Auto Man	
-60	0.0											0 Hz	
Ci #F	enter Res E	824.00 W 27 I	00 MHz		#VBW	75 kHz*		#1	Sweep 2	Span 2 00.0 ms (.000 MHz		
MS	a								STATUS		pto)		l



		Ba	ind Ed	lge Te	st Grap	oh(s) (Channe	l Bandw	vidth: 1.4	4 MHz)_	LCH_1	6QAM
Apti M Ce	RL RL	er Freq	alyzer - Swe 50 Ω 824.000	AC OOO MHZ PN IFC	O: Wide	Trig: Free #Atten: 30	Run dB	Avg Type: Avg Hold:	RMS 19/100	03:24:30 PM TRACE TVP DE	Dec 27, 2018 1 2 3 4 5 6 MMMMMM T A A A A A A	Frequency
10,	dB/d	Ref div Ref	Offset 10.7 f 20.00 d	77 dB Bm					Mkr	1 823.99	94 MHz 93 dBm	
10	0.0						~	v	n waardoo aa ah	ptur and the stand of the stand	and New York and the second	Center Freq 824.000000 MHz
-10	00						J.					Start Freq 823.000000 MHz
-20.	0.0						1				-13.00 dBm	Stop Freq
-30.	0.0	م معلمهم معدد	114 martinetary	many	,	www.mwW						825.000000 MHz
-40.).0 	where .										200.000 kHz Auto Man
-60.	0.0											Freq Offset 0 Hz
-70.	0.0											
Ce #R	ente les E	r 824.00 BW 27 k	0 MHz Hz		#VBW	75 kHz*		#5	Sweep 2	Span 2. 00.0 ms (1	000 MHz 1001 pts)	

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FCC ID: 2AJMSP500

Report No.: LCS181225001AEG





	Band	d Edge	e Test	Graph(s) (Ch	annel	Bandy	vidth: 3	3 MHz))_HCH	L_QPSK
Agile	nt Spectrum A	nalyzer - Swe	pt SA								
Cer	nter Freq	50 Ω 849.000	AC 000 MH	z	SEI	SE:INT		RMS	03:25:17 PM TRAC	4Dec 27, 2018 E 1 2 3 4 5 6	Frequency
			P	NO: Wide	#Atten: 30) dB	Avginoia:	15/100	DE	AAAAA	
10 d	Re Relative Re	of Offset 10.	85 dB					Mkr	1 849.0	00 MHz 48 dBm	Auto Tune
Log		20.00 0		1							
											Center Freq
10.0		man Januardan	Mar Mar	amanan							849.000000 MHz
					7						
0.00					<u> </u>						Otort Eron
					ì						Start Freq
-10.0)				-					-13.00 dBm	848.000000 WHZ
					7						
-20.0)				- \ \	1					Stop Freq
											850.000000 MHz
-30.0						·					
40.0							-arriter Bulley	se manded by	เข้างหาย่างการ	THAT HAT THE Atman	CF Step
-40.0	,										200.000 kHz
-60.0											<u>Auto</u> Man
-60.0											Freq Offset
											0 Hz
-70.0											
-							1				
Cer #Po	nter 849.0	00 MHz		#VBM	190 kHz		#	Sween 2	Span 2.	.000 MHz	
#1CC	5 DVV 02	N112		#0800	100 KHZ		#	oweep z	00.0 IIIS (roor prsj	
MSG								ISTATUS			

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Autor Analyzer - Sweet 15A Autor Analyzer - Sweet 15A Image: Analyzer - Sweet 15A Autor Analyzer - Sweet 15A Image: Analyzer - Sweet 15A Autor Analyzer - Sweet 15A Image: Analyzer - Sweet 15A Autor Analyzer - Sweet 15A Image: Analyzer - Sweet 15A Autor Analyzer - Sweet 15A Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer - Sweet 15A Autor Trig: Free Run Broamition Image: Analyzer		Ba	and E	Edge	Test	Graph	(s) (C	hanne	l Bandv	width: {	5 MHz)_LCH	_QPSK
Ref Offset 10.77 dB Auto Tune 100 -16.693 dBm -16.693 dBm 100 -17.00 -18.00000 MHz 200 -19.0000 MHz -13.0000 100 -19.0000 MHz -19.0000 MHz 200.000 MHz -19.0000 MHz -19.0000 MHz 200.000 MHz -19.0000 MHz -19.0000 MHz 200.000 MHz -19.0000 MHz -19.00000 MHz 200.000 MHz	Agiler (X/ R Cen	ter Fr	RF RF req 82	4.0000		Z PNO: Wide ↔	Trig: Fre	e Run	Avg Type Avg Hold:	ALIGN AUTO :: RMS 19/100	03:25:35 PM TRAC TYP DE	4Dec 27, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
10.0 Center Freq B24.00000 MHz 0.00 Start Freq B23.00000 MHz 10.0 Start Freq B25.00000 MHz 10.0 Start Freq B25.00000 MHz 10.0 Start Freq B25.00000 MHz 10.0 Freq Offset OHz Freq Offset OHz 10.0 Start Freq B25.00000 MHz Freq Offset OHz 10.0 Start Freq B25.00000 MHz Freq Offset OHz 10.0 Start Freq B25.0000 MHz Freq Offset OHz 10.0 Start Freq B25.0000 MHz Freq Offset OHz 10.0 Start Freq B25.0000 MHz Freq Offset OHz	10 di Log	B/div	Ref Off Ref 2	řset 10.7 0.00 dE	7 dB 3m	June				Mkı	1 824.0	00 MHz 93 dBm	Auto Tune
0.00 0.01 0.02 <th< td=""><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>م به منافق الم</td><td>e</td><td>an an art and a start and an an an an</td><td>al Allerman and</td><td>Center Freq 824.000000 MHz</td></th<>	10.0								م به منافق الم	e	an an art and a start and an an an an	al Allerman and	Center Freq 824.000000 MHz
100 1300 mm 13	0.00							ګو.	/				Start Freq
300 300 300 325,000000 MHz 40.0 300 300 325,000000 MHz 40.0 300 300 300 600 300 300 300 600 300 300 300 700 300 300 300 700 300 300 300 700 300 300 300	-20.0						a del fra	ANH AND				-13.00 dBm	Stop Freq
400 CP Step 200 OCH 20	-30.0	valender,	Name and a	R+524%/+4/4	and the fast of th	er Dieter ber Jarren biller	**************************************						825.00000 MHz
-60.0 FreqOffset -70.0	-40.0												200.000 kHz Auto Man
	-60.0												Freq Offset 0 Hz
	-70.0												
Center 824.000 MHz Span 2.000 MHz Span 2.000 MHz #VBW 300 kHz* #Sweep 200.0 ms (1001 pts)	Cen #Re	ter 824 s BW	4.000 N 100 KH	VIHz Iz		#VBW	/ 300 KH:	z*	#	Sweep 2	Span 2 00.0 ms (.000 MHz 1001 pts)	

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		Band	Edge	Test G	iraph(s	s) (Cha	annel I	Bandw	idth: 5	MHz)	_HCH_	_16QAM
AB	ilent	Spectrum A	nalyzer - Swe	pt SA								
<u>S</u> C	RL		F 50 Q			SEN	ISE:INT		ALIGNAUTO	03:26:03 PN TRAC	IDec 27, 2018	Frequency
<u> </u>	ent	errieq	049.000	PN	O:Wide 🔸	Trig: Free	Run	Avg Hold:	19/100	TYP	E MWWWWW	
10	dB	Re (div R e	f Offset 10.	85 dB	ain:Low	whiten. St	, ub		Mkr	1 849.0	04 MHz 07 dBm	Auto Tune
6	°ΫΓ		1 20100 0									
	~ ~											Center Freq
	0.0	مديقا حواصا حدارهما	ng hi lanten andre.		and the second second							849.00000 MHz
0	.00 -					`						Start Fred
						1						848.000000 MHz
	-					hu	1				-13.00 dBm	
-2	0.0						·					Stop Fred
							A MANA AND AND AND AND AND AND AND AND AND					850.000000 MHz
-3	0.0						1 11-	All all and				
										1000 100 100 100 100 100 100 100 100 10	¹ ************************************	CF Step
.,,	0.0											200.000 kHz
-6	0.0											Auto Mari
												Erog Offect
-6	0.0											0 Hz
-/	0.0											
-	Ļ									0		
C #I	ente Res	er 849.00 BW 110	kHz		#VBW	330 kHz		#	Sweep 2	Span 2. 00.0 ms (.000 MHz 1001 pts)	
MS	a								STATUS			

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	Ba	and E	Edge	Test C	Graph(s	s) (Cha	annel E	Bandwi	dth: 10) MHz)_LCH	_16QAM
Agil	ent Spe R L	ctrum Ana	alyzer - Swe 50 Ω	pt SA AC		SEI	NSE:INT		ALIGNAUTO	03:26:21 PM	1Dec 27, 2018	Frequency
Ce	nter	Freq 8	324.000	000 MF	IZ PNO: Wide ++-	Trig: Fre	e Run	Avg Type Avg Hold:	: RMS 19/100	TRAC		Trequency
10	dB/div	Ref	Offset 10.	" 77 dB Bm	FGain:Low	#Atten: 3	OGB		Mkr	1 823.9	98 MHz 79 dBm	Auto Tune
Log	"											Conton From
10.	o									~~****		824.000000 MHz
0.0	o							/	and the second se			Start Fred
-10	•										-13.00 dBm	823.000000 MHz
-20.	o						1	a War				Stop Freq
-30.	0				and the second second	CONTRACTOR OF						825.000000 MHz
-40.	0											CF Step
-50.												Auto Man
-60.	o											Freq Offset
-70.	0											0 Hz
10.												
Ce #R	nter : es B\	824.000 N 200 I	0 MHz kHz		#VBW	620 kHz	*	#	Sweep 2	Span 2 00.0 ms (000 MHz 1001 pts)	
MSG									STATUS		• •	

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Agilent Spectrum A	nalyzer - Swept SA F 50 Ω AC		SE	NSE:INT		ALIGN AUTO	03:26:39 PM	1Dec 27, 2018	
Center Freq	849.000000 N	/HZ PNO:Wide ↔	Trig: Fre	e Run	Avg Type Avg Hold:	: RMS 19/100	TRAC	E 1 2 3 4 5 6 E MWWWW	Frequency
10 dB/div Re	f Offset 10.85 dB f 20.00 dBm	IFGain:Low	#Atten: 3	0 dB		Mkr	°1 849.0 -24.2	08 MHz 05 dBm	Auto Tune
10.0									Center Freq 849.000000 MHz
0.00		Rosen way							Start Freq 848,000000 MHz
-20.0			W. Antable and a	● ¹				-13.00 dBm	Stop Freq
-30.0				the shown and	Here Barton Handard and Barton and		~~~~		850.000000 MHz
-40.0									CF Step 200.000 kHz <u>Auto</u> Man
-60.0									Freq Offset
-70.0									

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F.5 Conducted Spurious Emission

	С	SE Te	st Gra	ph(s) (Chanr	nel Bar	ndwidth	n: 1.4 M	ИНz)_L	_CH_C	PSK
Agiler (XI R Cen	t Spectrum A	Analyzer - Sw RF 50 G 79.500	ept SA		SE	NSE:INT	Avg Type	ALIGNAUTO	03:26:58 PM TRAC	4Dec 27, 2018 E 1 2 3 4 5 6	Frequency
	P	ef Offset 11	P IF	NO: Wide ↔ Gain:Low	#Atten: 1	e Run 0 dB	Avg Hold:	8/100 Mk	r1 150.0	000 kHz	Auto Tune
10 di Log	3/div R	ef 11.48	dBm						-65.32	22 dBm	Cepter Fred
1.48											79.500 kHz
-8.52											Start Freq 9.000 kHz
-28.5										-33.00 dBm	Stop Freq 150.000 kHz
-48.5											CF Step 14.100 kHz Auto Man
-58.5	N. M.	M. H. a. a	up nation to	1. MA 10 10	Mr. Mr. Mark	LACUAR	wh Minh	N. 12 10 10	Mur	1 	Freq Offset
-78.5	M. NM	y wary y	անվեր Ա. Ա.	W. ANNE	Unite sector	npo yriv:	ייזיי עריי	יאן אי	" "V W	r.h.m.	
 Star #Re	t 9.00 kH s BW 1.0	lz) kHz		#VBW	/ 3.0 kHz	N		Sweep 1	Stop 15 74.0 ms (1 DC Cou	0.00 kHz 1001 pts)	
Agiler IXI R	t Spectrum J	Analyzer - Sw RF 50 G	ept SA :▲□⊂ 000 MHマ		SE	NSE:INT	Avg Type	ALIGNAUTO	03:27:04 PM TRACI	1Dec 27, 2018 E 1 2 3 4 5 6	Frequency
	Reining R	ef Offset 11	F I.48 dB	PNO: Fast ↔ Gain:Low	Trig: Fre #Atten: 1	e Run 0 dB	Avg Hold:	8/100	۳۷۶ De Mkr1 5	538 kHz	Auto Tune
1.48											Center Freq 15.075000 MHz
-8.52											Start Freq
-18.5										-23.00 dBm	150.000 kHz
-28.5											Stop Freq 30.000000 MHz
-48.5	∳ 1										CF Step 2.985000 MHz Auto Man
-68.5	Mu V										Freq Offset 0 Hz
-78.5		anton and the	NIN DUMAN	hter a state of the second	rhyrialding angertu	Phan-Hing Waltered	Yalihan yalihista ayaa	moundphila)	1974 minunista for	rradfutblarydfo	
Star #Re	t 150 kH s BW 10	z KHz		#VBW	/ 30 kHz*			Sweep 3	Stop 30 68.3 ms (7 1 DC Cou	0.00 MHz 1001 pts)	
Agiler	t Spectrum J	Analyzer - Sw RF 50 S	ept SA		SE	NSE:INT		ALIGN AUTO	03:27:07 PM	1Dec 27, 2018	Fraguerra
Cen	ter Frec	13.015	000000 C	Gain:Low	Trig: Fre #Atten: 4	e Run 0 dB	Avg Type Avg Hold:	: RMS 4/100	TRACI TVP DE	E 1 2 3 4 5 6 E M M M M M M M M M M M M M M M M M M M	Frequency
10 di Log	B/div R	ef Offset 10 ef 30.00	0.88 dB dBm				1	M	kr2 25.6 -27.84	62 GHz 49 dBm	Auto Tune
20.0	\¢ ¹										Center Freq 13.015000000 GHz
0.00											Start Freq 30.000000 MHz
-10.0										-13.00 dBm	Stop Freq
-20.0										ě	26.00000000 GHz
-30.0	mar Marian	- wing man of		an and a start of the start of		****	and the state of t	er free de fan de fa	erer where	and the second second	2.597000000 GHz Auto Man
-50.0											Freq Offset 0 Hz
-60.0											
Star #Re	t 30 MHz s BW 1.0	z MHz		#VBW	/ 3.0 MHz	*	5	Sweep 6	Stop 20 4.93 ms (*	6.00 GHz 1001 pts)	
MSG								STATUS			

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		CSE	Test C	Graph(s) (Cha	nnel Ba	andwidth	n: 1.4 M	Hz)_MC	H_QPS	K
Ag	lent Spectrum	Analyzer - Swo	pt SA		SEN	SE:INT		ALIGNAUTO	03:27:30 PM	Dec 27, 2018	_
C	enter Fre	q 79.500	kHz PN	IO: Wide	Trig: Free	Run	Avg Type Avg Hold:	: RMS 8/100	TRACE TYPE DEI	123456 MWWWWW AAAAAA	Frequency
19	dB/div F	Ref Offset 11 Ref 11.48 c	.48 dB 18m	sain:Low	whiten. Io	45		Mk	r1 120.5 -62.78	31 kHz 84 dBm	Auto Tune
1	48										Center Freq 79.500 kHz
-8	52										
-11	.5										9.000 kHz
-21										-33.00 dBm	Stop Freq
-31	.5										CE Stop
-41	.5								1		14.100 kHz Auto Man
-61	.5	1 10		.4. (30/Mag		. Altors a	. man	LA.	Maria Maria	n. Ann	Freq Offset
-71	.5 ****104 4	runny ~~~	drand the state of	na. the shall	W v	W. dala Ma	ah. naha	An ana n	, nauki Alita	MA. 1	0 Hz
s	art 9.00 k	Hz							Stop 15	0.00 kHz	
# F MS	tes BW 1.	0 kHz		#VBW	3.0 kHz*			Sweep 1	74.0 ms (1	pled	
<u> </u>	RL Free	Analyzer - Swo RF 50 Ω	ept SA ▲∝ DOO MHz		SEN	SE:INT	Avg Type	ALIGNAUTO	03:27:35 PM TRACE	Dec 27, 2018	Frequency
		Ref Offset 11	.48 dB	NO: Fast 🔸	^d Trig: Free #Atten: 10	Run dB	Avg Hold:	8/100	Mkr15	38 kHz	Auto Tune
19	dB/div F	Ref 11.48 c	Bm						-52.65	1 dBm	Center Frea
1	48										15.075000 MHz
-8.	.5										Start Freq 150.000 kHz
-21	.5									-23.00 dBm	Stop Freq
-3	.5										30.000000 MHz
-41	.5 1										CF Step 2.985000 MHz Auto Man
-5											Freq Offset
-51	5 V			along to and the	when a star	O LAMA AND AND AND AND AND AND AND AND AND AN	here which the	ut diala di a cara di	ka da minina ang ka	(). Harman	0 Hz
	art 150 kH	1z	**************************************	n ha di M. A. airdi.	us Alfrand of a	. Դես Ս Դեւ տելի	ի հայորդերին հայորդերին հայորդերին հայորություններին հայորություններին հայորներին հայորներին հայորություններին	ահա ռա հերվի պող վ	Stop 30	0.00 MHz	
#F	tes BW 10	kHz		#VBW	30 kHz*			Sweep 3	68.3 ms (1	001 pts)	
Ag	lent Spectrum R L	Analyzer - Swo RF 50 Q	AC		SEN	SE:INT		ALIGN AUTO	03:27:38 PM	Dec 27, 2018	Frequencia
C	enter Fre	q 13.0150	00000 G	Hz NO: Fast 🔸 Sain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	: RMS 4/100	TRACE TYPE DET	123456 MWWWWWW AAAAAA	Frequency
10	dB/div F	Ref Offset 10 Ref 30.00 c	.88 dB 1 Bm					м	(r2 26.0) -27.87	00 GHz 10 dBm	Auto Tune
2	.0										Center Freq 13.015000000 GHz
11											Start Fred
o	00										30.000000 MHz
-11										-13.00 dBm	Stop Freq 26.00000000 GHz
-21										2	CF Step
-31		- and the second s	manne	**************************************			and an other and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		and the special	2.597000000 GHz <u>Auto</u> Man
-5	.0										Freq Offset 0 Hz
-61	.0										
St	art 30 MH	z 0 MHz		#\/R)^/	3.0 MH7*			Sween 6	Stop 26	5.00 GHz	
**					2.0 .0012		•	STATUS		proj	

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