Appendix E: Test Data for E-UTRA Band 17

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

Environmental Conditions

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

E.1 Conducted Output Power

			d Output Pov	ver Test Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.83	23.13	PASS
		1	12	24.19	23.44	PASS
		1	24	23.78	23.08	PASS
	LCH	12	0	22.90	21.98	PASS
		12	6	22.99	22.06	PASS
		12	13	22.89	21.96	PASS
		25	0	22.93	21.89	PASS
		1	0	23.89	22.81	PASS
		1	12	24.23	23.08	PASS
QPSK /		1	24	23.83	22.72	PASS
16QAM	МСН	12	0	22.89	21.91	PASS
TOQAM		12	6	22.88	21.89	PASS
		12	13	22.78	21.83	PASS
		25	0	22.89	21.85	PASS
		1	0	23.76	22.82	PASS
		1	12	24.06	23.11	PASS
		1	24	23.70	22.70	PASS
	НСН	12	0	22.81	21.78	PASS
		12	6	22.83	21.86	PASS
		12	13	22.74	21.72	PASS
		25	0	22.78	21.79	PASS

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		Conducted	Output Pow	er Test Result (Channel Band	dwidth: 10 MHz)	
Mashalatian	Ohannal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	
Modulation	Channel -	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.85	23.07	PASS
	-	1	24	23.99	23.20	PASS
		1	49	23.77	22.93	PASS
	LCH	25	0	22.97	21.91	PASS
		25	12	22.90	21.89	PASS
		25	25	22.84	21.81	PASS
		50	0	22.87	21.84	PASS
		1	0	23.89	23.07	PASS
		1	24	24.04	23.22	PASS
	-	1	49	23.79	22.95	PASS
QPSK / 16QAM	МСН	25	0	23.01	21.91	PASS
TOQAIVI	-	25	12	22.95	21.89	PASS
		25	25	22.90	21.84	PASS
		50	0	22.93	21.85	PASS
		1	0	23.90	23.17	PASS
		1	24	24.05	23.35	PASS
		1	49	23.84	23.06	PASS
	НСН	25	0	23.03	21.99	PASS
		25	12	22.92	21.90	PASS
		25	25	22.84	21.82	PASS
		50	0	22.93	21.88	PASS

E.2 Peak-to-Average Ratio

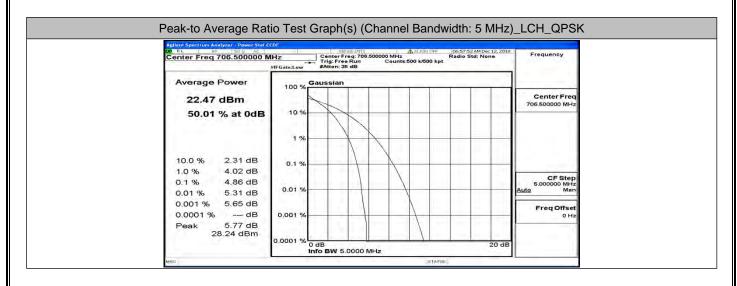
	Peak-to Average Ra	atio Test Result (Channel	Bandwidth: 5 MHz)	MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
wouldtion	Channel	[dB]	[dB]	Verdici	
	LCH	4.86	<13	PASS	
QPSK	MCH	4.91	<13	PASS	
	HCH	4.85	<13	PASS	
	LCH	5.68	<13	PASS	
16QAM	MCH	5.74	<13	PASS	
	НСН	5.73	<13	PASS	

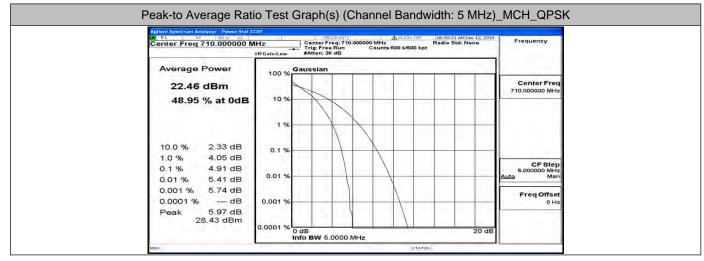
	Peak-to Average Ra	atio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Channer	[dB]	[dB]	Verdici		
	LCH	5.08	<13	PASS		
QPSK	MCH	5.13	<13	PASS		
	НСН	5.19	<13	PASS		
	LCH	5.81	<13	PASS		
16QAM	МСН	5.94	<13	PASS		
	НСН	5.95	<13	PASS		

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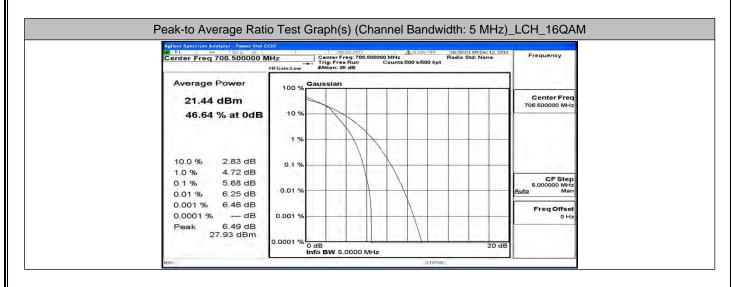


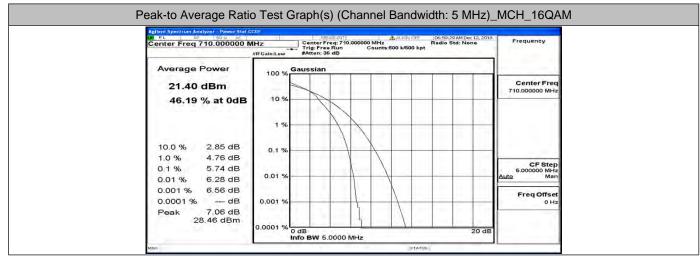
RL RF 50 G AC	MH Center Fred: 713.500000 MHz Radio	0:49 AM Dec 12, 2018 o Std: None	Frequency
//FGain:Low #Atten: 36 dB			100 454
Average Power	100 % Gaussian		
22.27 dBm			Center Freq 713.500000 MHz
49.12 % at 0dB			
	1%		
10.0 % 2.30 dB	0.1%		
1.0 % 3.99 dB 0.1 % 4.85 dB	0.01 %		CF Step 5.000000 MHz
0.01 % 5.31 dB 0.001 % 5.57 dB	0.01 %		uto Man
0.0001 % dB	0,001 %		Freq Offset 0 Hz
Peak 5.71 dB 27.98 dBm	0.0001 % 0	20.40	
	0.0001 % 0 dB	20 dB	

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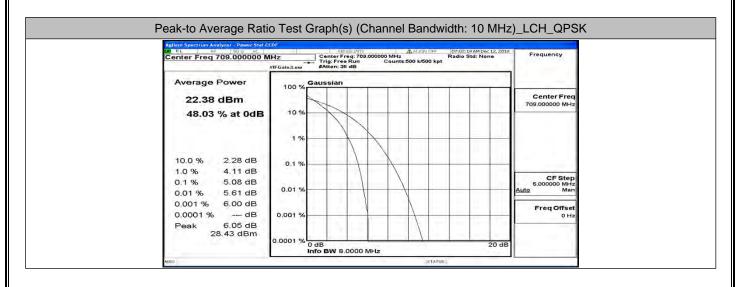


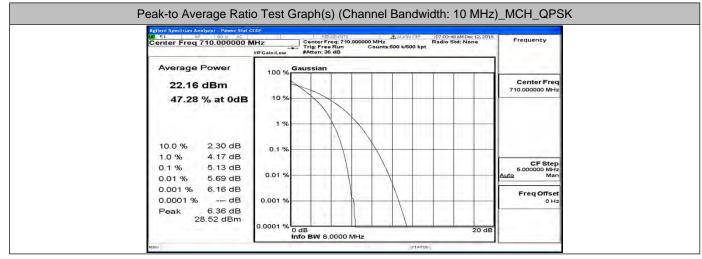
Aglant Spectrum Andyzer - Power Starl CODF 20. FL 8F 900 AC SPECTION And V2F 070057 AM Dec 12, 2019 Center Freq 713.500000 MHz ///FGain:Low #Atten: 36 dB			
Average Power	Gaussian		
21.14 dBm 46.15 % at 0dB	100 % dossian		Center Freq 713.500000 MHz
10.0 % 2.87 dB 1.0 % 4.74 dB 0.1 % 5.73 dB 0.01 % 6.21 dB	1 % 0.1 % 0.01 %		CF Step 5.00000 MHz 2 Man
0.001 % 6.50 dB 0.0001 % dB Peak 6.59 dB 27.73 dBm	0,001 %		Freq Offset 0 Hz

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Report No.: LCS181130006AEG

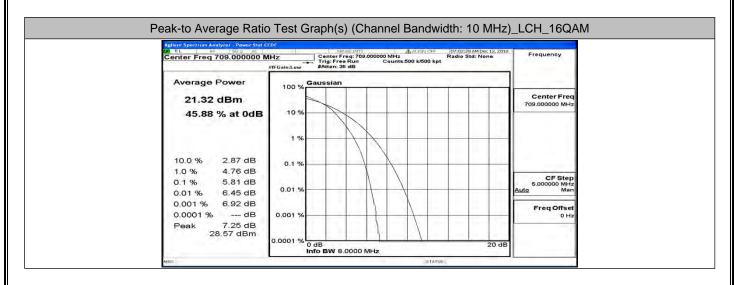


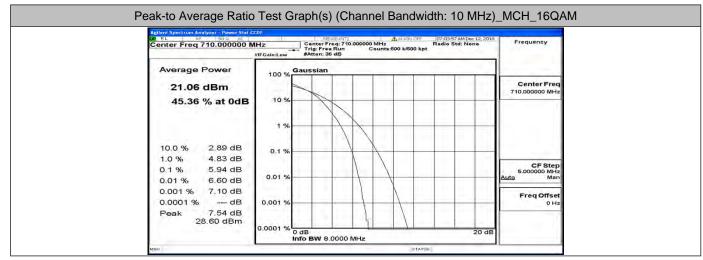


Aglent Spectrum Analyzer - Drever Staf COP 2018 RL 88 - 650 - AC Strabby[] & AU371CFF (07/05/17 AM Dec 12, 2016 Center Freq 711.000000 MHz Center Freq 711.000000 MHz Trig: Free Aun Counts:500 14/500 Kp00 kp00			
Average Power	#IFGain:Low #Atten: 36 dB		
21.94 dBm 47.35 % at 0dB	100 %		Center Freq 711.000000 MHz
47.55 % at 005	1 %		
10.0 % 2.31 dB 1.0 % 4.21 dB	0.1 %		-
0.1 % 5.19 dB 0.01 % 5.68 dB	0.01 %		CF Step 5.000000 MHz Auto Man
0.001 % 6.12 dB 0.0001 % dB Peak 6.32 dB	0,001 %		Freq Offset 0 Hz
28.26 dBm	0.0001 % 0 dB Info BW 8.0000 MHz	20 dB	

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Average Power 100 % Gaussian Counts.500 kpc Counts.500 kpc 45.35 % at 0dB 100 % Gaussian Center 10.0 % 2.89 dB 0.1 % Center	rage Power 0.90 dBm	MHz Center Fr //FGain:Lew Trig: Free #Atten: 30 100 % Gaussian	eq: 711.000000 MHz Run Counts:500 k/500 k	Radio Std: None	Frequency
20.90 dBm 100 % Center 711.0000 45.35 % at 0dB 10 % 10 % 10.0 % 2.89 dB 0.1 % 10.0 % 4.87 dB 0.1 %	0.90 dBm	100 %			
20.90 dBm Center 45.35 % at 0dB 10 % 10.0 % 2.89 dB 1.0 % 4.87 dB	0.90 dBm				I - The Local Second
10.0 % 2.89 dB 1.0 % 4.87 dB	5.35 % at 0dB				Center Freq 711.000000 MHz
01% 595dB	% 4.87 dB				CFStep
0.01 % 6.59 dB 0.01 %	% 6.59 dB	0.01 %			5.000000 MHz
0.001 % 7.08 dB 0.0001 % dB 0.001 %	01% dB 0	0.001 %			Freq Offset 0 Hz

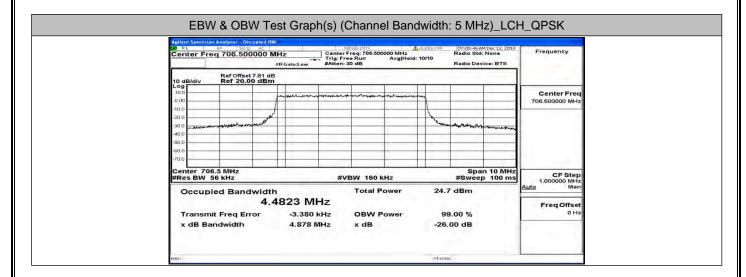
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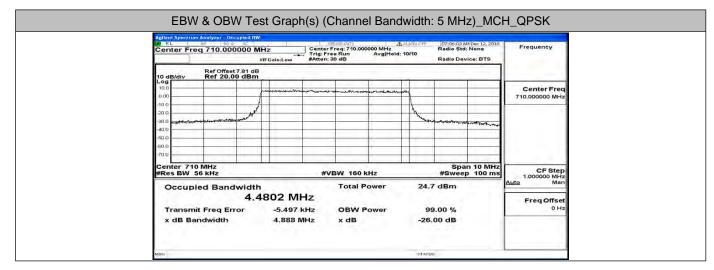
E.3 26dB Bandwidth and Occupied Bandwidth

	EBW & OBW T	est Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
MODUIAtion	Channel	(MHz)	(MHz)	Verdict
	LCH	4.4823	4.878	PASS
QPSK	MCH	4.4802	4.888	PASS
	НСН	4.4878	4.840	PASS
	LCH	4.4673	4.896	PASS
16QAM	MCH	4.4812	4.839	PASS
	НСН	4.4804	4.835	PASS

	EBW & OBW Te	est Result (Channel Band	dwidth: 10 MHz)	
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
	LCH	8.9365	9.525	PASS
QPSK	MCH	8.9348	9.526	PASS
	НСН	8.9381	9.485	PASS
	LCH	8.9374	9.443	PASS
16QAM	МСН	8.9449	9.624	PASS
	НСН	8.9421	9.511	PASS

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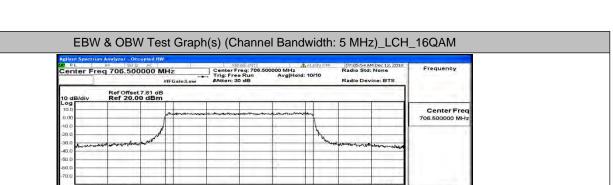


Agilent Spectrum Analyzer - Occupied B		SEP/SE/D\$T	ALIGN OFF	07:06:22.4	M Dec 12, 2018	
Center Freq 713.500000	VHz Cente	Free Run Avg Hold n; 30 dB		Radio Std	l: None	Frequency
Ref Offset 7.81 dl 10 dB/div Ref 20.00 dBn						
10.0 0.00	-	en andre alle alle alle alle alle alle alle al	-			Center Freq 713.500000 MHz
-10.0			hu			
-30.0				the manufacture of the second	Survision and	
-60.0 -70.0						
Center 713.5 MHz #Res BW 56 kHz	#	WBW 160 kHz		Spa #Swee	n 10 MHz p 100 ms	CF Step
Occupied Bandwidt		Total Power	24.6	6 dBm		Auto Man
4. Transmit Freq Error	4878 MHz -2.551 kHz	OBW Power	99	9.00 %		Freq Offset 0 Hz
x dB Bandwidth	4.840 MHz	x dB	-26.	00 dB		

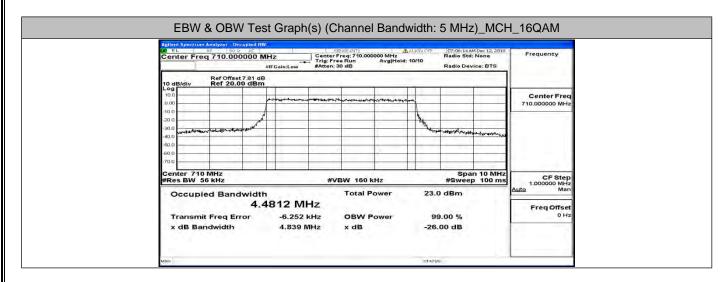
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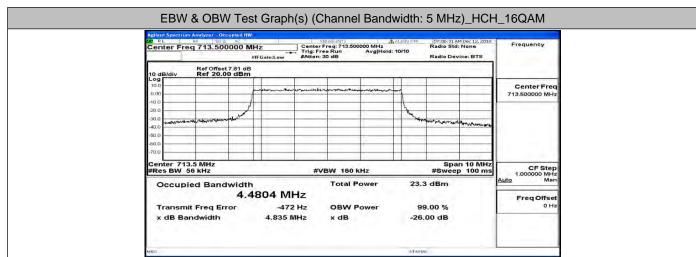


FCC ID: 2ADTE-S80LITE Report No.: LCS181130006AEG



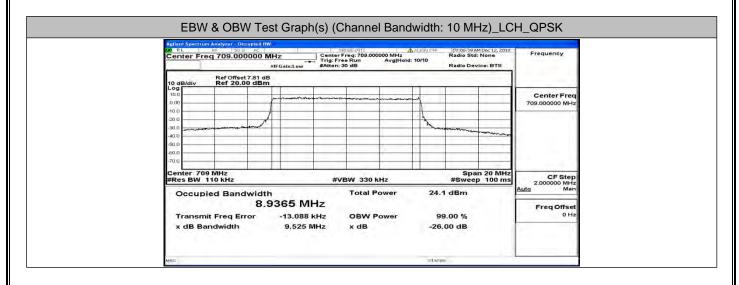
Center 706.5 MHz #Res BW 56 kHz		#VBW 160 kHz	Span 10 MHz #Sweep 100 ms	CF Step
Occupied Bandwidt	h	Total Power	23.7 dBm	<u>Auto</u> Man
4.	4673 MHz			Freq Offset
Transmit Freq Error	-682 Hz	OBW Power	99.00 %	0 Hz
x dB Bandwidth	4.896 MHz	x dB	-26.00 dB	

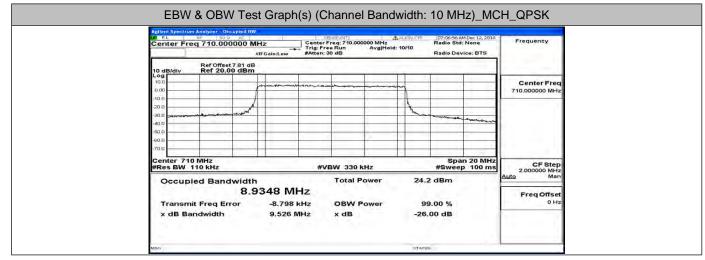




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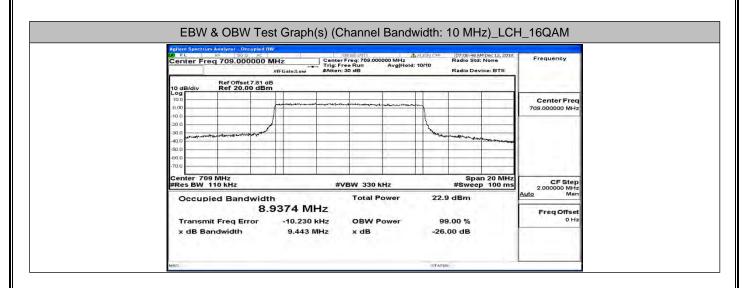
Report No.: LCS181130006AEG

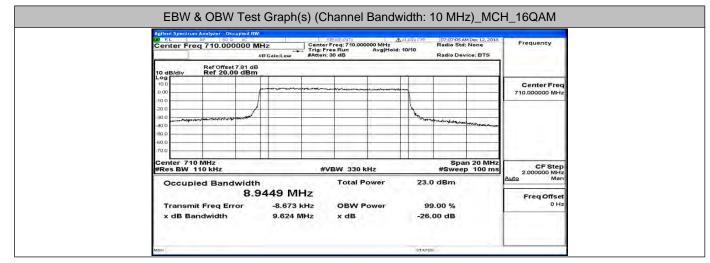




Agilent Spectrum Analyzer - Occupied B UR RL RF 50 G AC		1 53	EN/SE(DAT)	1.00	ALIGN CIFF	Fi7:07:124	M Dec 12, 2018	
Center Freq 711.000000		CenterF	Freq: 711.000 Run			Radio Std	I: None	Frequency
10 dB/div Ref Offset 7.81 c Ref 20.00 dB						_		
10.0 0.00	Jamman		and an oppi		~			Center Freq 711.000000 MHz
-10.0	w l			-	1 mm			
-40.0			-			- noutre		
-60.0			-					
Center 711 MHz #Res BW 110 kHz		#V	BW 330 H	Hz	1.00		n 20 MHz p 100 ms	CF Step 2.000000 MHz
Occupied Bandwid	th .9381 MI	-	Total P	ower	24.	1 dBm	5 15	<u>Auto</u> Man
O. Transmit Freq Error	HZ KHZ	OBW P	ower	9	9.00 %		Freq Offset 0 Hz	
x dB Bandwidth	9.485 N	AHz	x dB		-26	00 dB		

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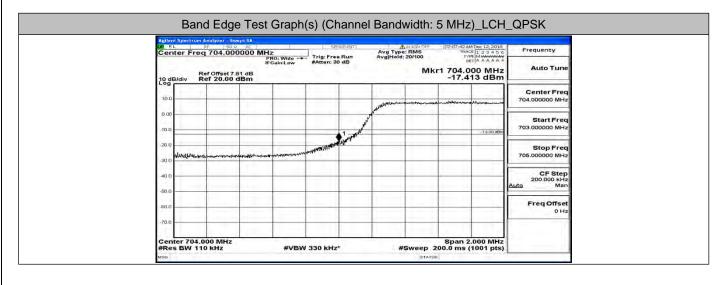


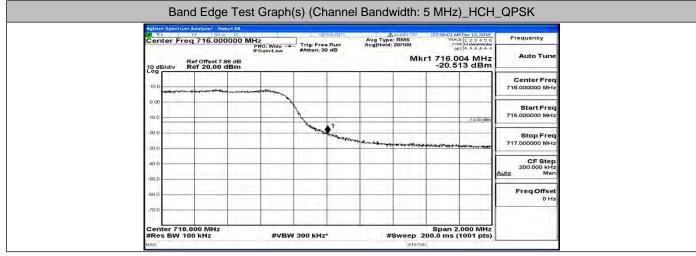


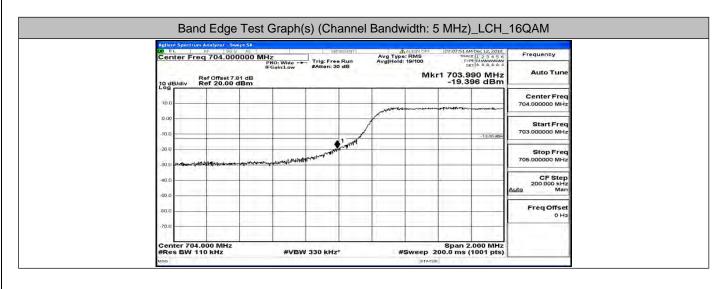
Center Freq 711.000000		Center	Freg: 711.000	000 MHz		Radio Std	M Dec 12, 2018 : None	Frequency
	#IFGain:Low	#Atten;		Avg[Hold: 1	0/10	Radio Dev	vice: BTS	
Ref Offset 7.81 d 10 dB/div Ref 20.00 dBr	8							
			1		1			Center Fred
0.00	part and the	- horana	and an Agreements	ad	-			711.000000 MH
-10.0	11				1			
-30.0 water and and an and an and an and		-	-		- two	ulana adays	-	
-40.0							And and a stand of the stand of the	
-80.0					-			
-70.0		-		-				
Center 711 MHz #Res BW 110 kHz		#V	BW 330 k	Hz			n 20 MHz p 100 ms	CF Step 2.000000 MHz
Occupied Bandwidt	h		Total P	ower	22.	9 dBm	2 1 2	Auto Man
	9421 M	Hz						Freq Offsel
Transmit Freq Error	kHz	OBW P	ower	9	9.00 %		0 Hz	
x dB Bandwidth	9.5111	VIHz	x dB		-26	.00 dB		

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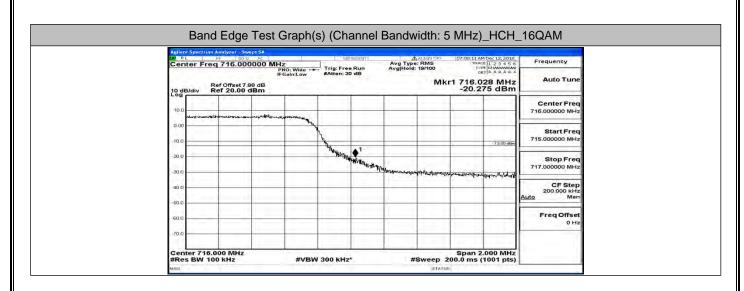
E.4 Band Edge

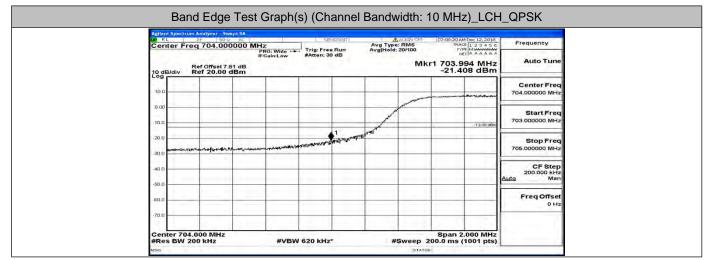






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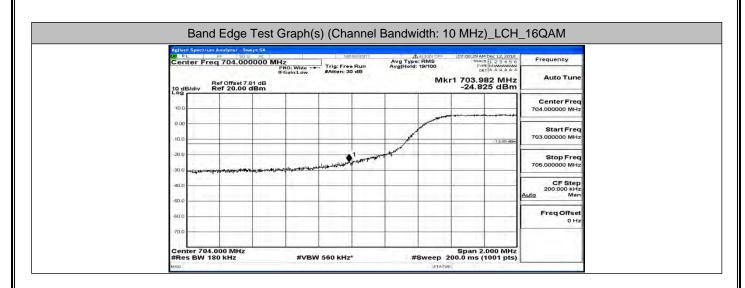


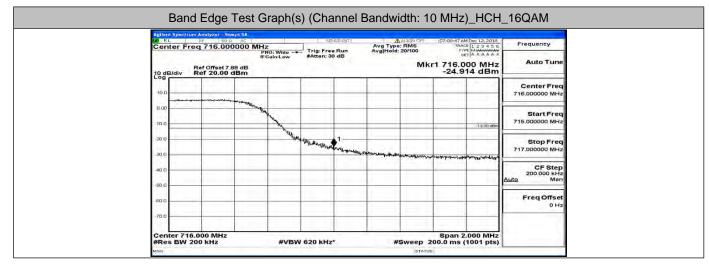


Enter and a state of the state	M Dec 12, 2018	- 07:08:38 A	ALLEN	SENSEDUT		50 2 AC	ent Spectrum Analy R.L. RF	UN RL
Frequency	THE AAAAAA	TRA	Avg Type: RMS Avg[Hold: 19/10	: Free Run	NO Mide	16.000000 MHz	nter Freq 71	Cente
Auto Tune		1kr1 716.0		ten: 30 dB	Gain:Low	1F6 0ffset 7.88 dB 20.00 dBm	dB/div Ref 2	10 dB/d
Center Freq 716.000000 MHz		1						10.0
Start Freq	Ē	-			~		0	0.00
715.000000 MHz	-13.00 etBm	-		1	- North -			-10.0
Stop Freq 717.000000 MHz	manautur		Appariant and the	PALAPPUNICULIST				-20.0
CF Step 200.000 kHz Auto Man								-40.0
Freq Offset 0 Hz							1.000	-60.0
		-	-				a	-70.0

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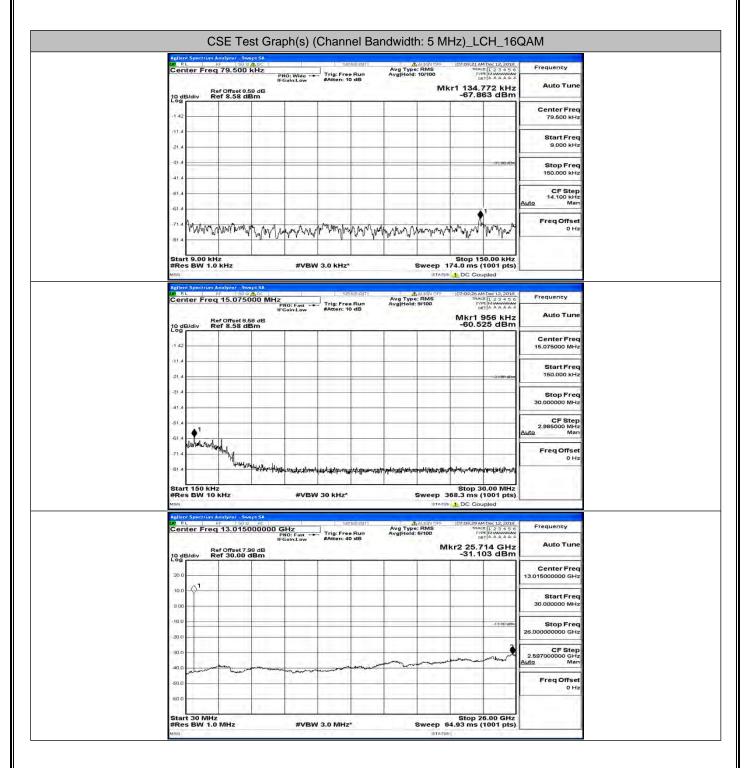
E.5 Conducted Spurious Emission

100	RL		RF	50 2	DC I	1	1	SENSE:Dyt			ALIGN OFF	07:09:05 A	M Dec 12, 2018	Frequency
Ce	ente	er Fre	q 79.	500		PNO: Wide IFGain:Low	Trig	Free Run m: 10 dB	A	vg Hold:			M Dec 12, 2018 CE 1 2 3 4 5 6 PE M M A A A A A ET A A A A A A	
18	dB/dB	div I	Ref Offs	et 8.5	8 dB Sm						N	-72.5	410 kHz 02 dBm	
-1.2	42 -				-						-			Center Freq 79.500 kHz
á	4	-	-	-		-	_	-	-					Start Freq
-21	4	-	-	-		-								9.000 kHz
-31	1E												-90,00,dDm	Stop Freq 150.000 kHz
-61			+						-					CF Step 14.100 kHz Auto Man
-61		1												Freq Offset 0 Hz
-81	4	mprov	www	Asm	en which	an when	many	any my	antimat	amphil	Monorthy	water	And have	0112
Sta	art	9.00 k	Hz 0 kHz	-		#\/	3W 3.0 k	Hat			ween 1	Stop 1	50.00 kHz (1001 pts)	
MSG			U KHZ			#1	JUP 3.0 K					DC Co		
	RL	er Fre	RF a 15.1	5012		z		SENGEDYT	A	Va Type:		07:09:10 A	M Dec 12, 2018 CE 1 2 3 4 5 6	Frequency
0.0						PNO: Fast IFGain:Low	#Atte	Free Run n: 10 dB	A	vg[Hold: !	9/100			Auto Tune
18	dB/dB/	div I	Ref Offs	et 8,5 58 dE	8 dB Sm	-						-59.1	04 MHz 20 dBm	1
-1.4	42					-		-			-	-		Center Freq 15.075000 MHz
á	.4	-	-		-		_		-		_			Start Freq
-21	4	-	+	-	-	-	_	-	-		_	-	-20.00 aDm	150.000 kHz
-31	4	-		-		-					-			Stop Freq 30.000000 MHz
-41	4										1 - 1			CF Step
-61		1.	•								14.1		1.11	2.985000 MHz Auto Man
-71	A MA	aluntha	undal	(1	-	1							1.1.2	Freq Offset
-81		_		nhollh	militaria	Mapalan	mustand	with make particular	martingham		mithing	ant anna this		0 Hz
St	art	150 ki											0.00 MHz	
#R	les	BW 1	0 kHz			#VI	3W 30 K	Hz*		S		68.3 ms	(1001 pts)	
00	RL		RF	50 2	AC	1		SEMISERDAT	1	A	ALLIGN OFF	07:09:13 A	M Dec 12, 2018	Pala an estimate of the
		er Fre	q 13.	0150	00000	GHZ PNO: Fast IFGain:Low	Trig	Free Run n: 40 dB	A	vg Hold:	RMS 5/100	TRA	CE 123456 PE MWWWWWW ET A A A A A A	Frequency
19	dB/dB/	div i	Ref Offs Ref 30	et 7.9			1.1				м	kr2 25.3 -31.3	825 GHz 66 dBm	Auto Tune
20					1						1			Center Freq 13.015000000 GHz
10		Q1						_		-	-			
0.0	- 00	-	-	_		-	_	_	_	_				Start Freq 30.000000 MHz
-10		-	-			-		_			-		-13.00 dDm	Stop Freq
-20	0					-	_				-			26.00000000 GHz
-30	- 0			_		-				-	ليرسمونه	-	Vin Pr	CF Step 2.597000000 GHz Auto Man
-40	1	have	-	war	-Astron		with	-		han				FreqOffset
-50														0 Hz
-60	-a												1.00	
1	L	30 MH	_	-				-	-			-	6.00 GHz	

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EXC F	RL	rum Analyzor RF	Swept SA) (Chan	NEE/INTI	4	ALIGN OFF	107:09:37 AI	MDer 12 2018	-
Cer	nter F	req 79.5	00 kHz	PNO: Wide IFGain:Low	Trig: Fre #Atten: 1	e Run 0 dB	Avg Type Avg[Hold:	RMS	TRAC TYI Di	E 123456	Frequency
10 0	B/div	Ref Offse Ref 8.5	t 8,58 dB 8 dBm					Mk	r1 102.	060 kHz 69 dBm	Auto Tune
-1 42		3					1	2			Center Freq 79.500 kHz
á	4	_		-	_		1				
-21.4	4			_	-						Start Freq 9.000 kHz
-31.4	4									-90.00 x0m	Stop Freq 150.000 kHz
-61.4	4									1	CF Step 14.100 kHz Auto Man
-71.4	- Www	manhon	Alle Ma	m. All and	manany	AM. Man	A ANA AND	1111	AN MAN	MAL MA	Freq Offset 0 Hz
B1 4 Sta #Re	rt 9.00	P.	¢ η η ηγ	-	3W 3.0 KHZ	1	1	Sweep 1	Stop 15	50.00 kHz 1001 pts)	h
EXC F	RL	rum Analyzer RF req 15.0	SO 2 ADC		SE	NGE(DAT)	Ave	ALIGN OFF	07:09:42 AJ	M Dec 12, 2018	Frequency
Cel	nier r	1.14	-	PNO: Fast IFGain:Low	Trig: Fre #Atten: 1	e Run 0 dB	Avg Hold:				a data di secondo a
10 d	B/div	Ref Offse Ref 8.5	t 8.58 dB 8 dBm		_			IV	-58.4	74 dBm	1
-1.42	2			-							Center Freq 15.075000 MHz
-11.4	á									-22.00 40m	Start Freq 150.000 kHz
-31.4											Stop Freq 30.000000 MHz
61 4	4	•1									CF Step 2.985000 MHz Auto Man
-61 4	AND	townally		_							Freq Offset
-81.4	4	4	we many higher	10 wydraeth ar fyla	n alan manager	neife der beiter beiter	gyment clampteride	tonfelogenergymenigene	call download	liperal selections affer	
	rt 150 es BW	kHz 10 kHz	- 42	#VE	30 kHz*				Stop 3 68.3 ms (0.00 MHz 1001 pts)	
Agilo	nt Spect	rum Analyzer RF	Swept SA	-	1 60	MEEDAT	1.4		07:09:45 A	M Dec 12, 2018	(
		req 13.0	1500000	O GHz PNO: Fast IFGain:Low	the second second	e Run	Avg Type Avg[Hold:		TRAC	ET A A A A A A	Frequency
10 0	B/div	Ref Offse Ref 30.	t 7.98 dB					M	kr2 25.9 -31.2	74 GHz 81 dBm	Auto Tune
20.0		1							111		Center Freq
10.0	101			-				1		1.1.1	
0.00	0	_	1			-					Start Freq 30.000000 MHz
-10.0	-	_		-						-13.00 d0m	Stop Freq
-20.0				-	-					1	26.000000000 GHz
-30.0		-		-			-			- Und	CF Step 2.59700000 GHz Auto Man
-40.0	- man	- the	and the second	mennen	manda	man		-	1		FreqOffset
	-						-				
-50.0	1.1						1				0 Hz

DO RL	pectrum An RF	50 2	ADC	- 1-	55	FMGE:DIT]	. 1 4	ALIGN OFF	07:10:08 A	4 Dec 12, 2018	Community
Cente	er Freq	79.500		PNO: Wide	Trig: Fre #Atten: *	e Run 10 dB	Avg Type Avg[Hold	: 9/100	TRAC	ET A A A A A A	Frequency
10 dB/c	div Ref	Offset 8.6 8.58 di	58 dB Bm					M	kr1 10.4 -73.5	410 kHz 08 dBm	Auto Tune
-1.42			-						-		Center Freq 79.500 kHz
-11.4				-		-			-		Start Freq
-21.4		-		-							9.000 kHz
-31.4										-99,00,10m	Stop Freq 150.000 kHz
-61_4		_			-	-			-		CF Step 14.100 kHz Auto Man
-61 4	1					-		1.00			Freq Offset
-81.4	mappy	W Wellow	an many and	W. Maynow	MARAM	Mar Manut	And marken	An start	man	www.	0 Hz
Start	9.00 kHz			-					Stop 15	0.00 kHz	·
 #Res I	BW 1.0 K	(Hz		#VB\	V 3.0 KHz		-	Sweep 1	74.0 ms (
Agilent S	Pectrum An RF er Freq *	alyzer - Sw 90 9		1	55	PNSE(D)T1	Avg Type Avg[Hold	ALIGN OFF	07:10:13 AM	4 Dec 12, 2018 E 1 2 3 4 5 6 E MMMMMM ET A A A A A A	Frequency
Conte				PNO: Fast 🕶 FGain:Low	#Atten: 1	e Run 10 dB	AvgHold	9/100		986 kHz	Auto Tune
	div Ref	Offset 8.6 8.58 di	58 dB Bm	-		-		-	-59.0	91 dBm	
-1.42				-	-	-	-		-		Center Freq 15.075000 MHz
-11.4											Start Freq
-21.4										-20.00 dDm	150.000 kHz
-31.4											Stop Freq 30.000000 MHz
-61_4	¹										CF Step 2.985000 MHz Auto Man
-61 4	Jower Without	w.l									Freq Offset
-01.4		uli Mudri	unplana	and and any interest	Rolling Hange Code-4	president of the state	and the state of the second	-		Aproperty take	0 Hz
Start	150 kHz			1				2.2.2		0.00 MHz	1.2
#Res I	BW 10 K	Hz		#VB\	W 30 kHz*				68.3 ms (1001 pts)	
LK RL	peetrum An	50 2	AC	CHa	5	PHOEIDATI	Ave	ALIGN OFF 1: RMS 1: 6/100	07:10:17 A	4 Dec 12, 2018	Frequency
Cente	er Freq			GHZ PNO: Fast ↔ FGain:Low	#Atten: 4	e Run 10 dB	AvgHold				Auto Tune
10 dB/d	div Ref	Offset 7.9	B dB		_	_		M	-30.9	66 GHz 71 dBm	
20.0	-			-		-			-		Center Freq 13.015000000 GHz
10.0	? │			-	-	-			-	-	Start Freq
0.00		-			-	-					30.000000 MHz
-10.0				-		-				-13.00 dDm	Stop Freq 26.00000000 GHz
-20.0									<u> </u>	3	CF Step 2.597000000 GHz
-40.0	-	-			and the second and		man	-	-showing	mune	2.597000000 GHz <u>Auto</u> Man
۲ ۲									-		Freq Offset 0 Hz
-50.0			1	1	1	1		1			- Ci+
-50.0 —		-		-	-	-					1



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	R RI	L	Analyzor S RF 90	S ADC	-1-	SE	NSE:D\$T]	4	ALLIGN OFF	07:09:52 A	M Dec 12, 2018	Frequency
Ľ	Cen	ter Fre	q 79.500		NO: Wide	Trig: Fre	e Run 0 dB	Avg Type Avg[Hold:	10/100	TRAC	E 123456 PE MAMMAN ET A A A A A A	
	10 de	B/div F	Ref Offset 6 Ref 8.58						M	lkr1 11. -68.1	820 kHz 00 dBm	Auto Tune
				1				1	1 1	1		Center Freq
	-1.42			1		-			1.1	1		79.500 kHz
	-11.4								1 - 1			Start Freq 9.000 kHz
	-21.4								1 1			
	-31.4							11	1 - 1	1	-33.00 rDm	Stop Freq 150.000 kHz
	-41.4	1						1	121	J		CF Step
	-61.4	1	-						i . i	1.1	1.014	14.100 kHz Auto Man
	-61.4	2		1		1	1.1	17.1	1.00	12.1	1.1	Freq Offset
	-01.4	a Map	whenter	MARIN MAN	mana	ranna	www.	hurry when	Murran	Marinho	an and when the	0 Hz
		1.0		p de la			20.4		1			
1	Star #Re:	t 9.00 ki s BW 1.	Hz 0 kHz		#VBV	/ 3.0 kHz*				74.0 ms (50.00 kHz 1001 pts)	
a	dela							_	STATUS	L DC Cou	upled	
2	R RI	L	RF 50 a 15.075	000 MHz		58	NGE:DVT]	Avg Type Avg[Hold	ALIGN OFF	07:09:57 Al TRA	M Dec 12, 2018 = 1 2 3 4 5 6 PE MYMMMM ET A A A A A A	Frequency
	-			1	PNO: Fast FGain:Low	#Atten: 1	e Run 0 dB	Avg[Hold:	9/100			Auto Tune
1	10 de	B/div F	Ref Offset 8	.58 dB IBm			_		_	-61.1	986 kHz 96 dBm	
	-1.42	123		-				1			11	Center Freq 15.075000 MHz
	-11.4	-								1	1.1.1	
	-21.4	1.1.1					- 22 - 2		1 - 1		-22.00 dDm	Start Freq 150.000 kHz
	-31.4											
	-41.4											Stop Freq 30.000000 MHz
	-61.4								1	J == 1		CF Step
		↑ ¹	1000					1	11	1 1	1.004	2.985000 MHz Auto Man
	-71.4	whereas	mlyan	1				1	12.1			Freq Offset
	-81.4		N. A.	er dunda		All introduction	a stille dament	an internet	Managerin	antitabantatak	Instruction	0 Hz
			-		alder contrainty	and the l	Med ber		a ana 11 a		· · · · · · · · · · · · · · · · · · ·	1. Con 1. Con 1.
3	#Res	t 150 kH s BW 10	kHz		#VBV	/ 30 kHz*				68.3 ms (0.00 MHz 1001 pts)	
	Agilon	n Spectrum	Analyzor - S	wept SA					STATUS	DC Cou	abjed	
5	PI PI		PE 50	P AC	GHz PNO: Fast -+ FGain:Low		e Run	Avg Type Avg[Hold	RMS	07:10:01 A TRAC	M Dec 12, 2018 TE 1 2 3 4 5 6 PE M M M M M M M M M M M M M M M M M M M	Frequency
			Ref Officer 7		Gain:Low	#Atten: 4	0 48			kr2 25.6	88 GHz	Auto Tune
	10 de	B/div F	Ref Offset 7 Ref 30.00	dBm	-	-	-			-31.1	74 dBm	
	20.0				-			-		-		Center Freq 13.015000000 GHz
	10.0	- Q ¹	-		-					-		Start Freq
	0.00	-					-			-		30.000000 MHz
	-10.0	-	-								-13.00 dBm	Stop Freq
											1	26.00000000 GHz
	-20.0		10	11.1.1	1	-			1		and a	CF Step 2.597000000 GHz
	-20.0 -30.0		-		1							
	644	alman	horn	m	harris				manin	man	and the stand	<u>Auto</u> Man
	30.0	man	am	m	men			~~	marin		and Annual	Freq Offset
	30.0 -40.0	m	-					~~	manin			Auto Man

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200	RL		Analyzer RF 90 q 79.50	2 ADC	-1-	SE	NSE:D(T)	Avg Type Avg[Hold:	ALIGN OFF	07:10:24 AN	4Dec 12, 2018	Frequency
		B	ef Offset	3.58 dB	PNO: Wide IFGain:Low	#Atten: 1	Run D dB	Avg[Hold		lkr1 16.0	050 kHz	Auto Tune
29		div R	ter 8.58	dBm	1		-			-70.84	42 UBM	Center Freq
-1	42 -				-					1		79.500 kHz
-1	1.4	-			-	-		-	-	1		Start Freq
-2	1.4	-			-	1						9.000 kHz
-3	1.4		-								-99.00 riCim	Stop Freq 150.000 kHz
-6	S -											CF Step 14,100 kHz Auto Man
-7	81	Markh.	Autouth	when	WALMAN	ALL ALWAY	Norral some	12 MARIN	manana	milion	Nortonal fair	Freq Offset 0 Hz
-8	14	V 1	VI . 4 4		And An Ali	դարդալ ւ տ	* 10 ⁿ ·			A	healter	
		9.00 kl BW 1.0			#VB	W 3.0 kHz*	þ.		Sweep 1	Stop 15 74.0 ms (0.00 kHz 1001 pts)	
MS	6		_			111			STATUS	1 DC Cou	pled	
00	RL		Analyzor St RF St	₩901 5A 2 A 5000 MH	7	SE	NSE:DØT]	Avg Type Avg[Hold:	ALIGN OFF	07:10:29 AN	4Dec 12, 2018	Frequency
	orit	or 1180	13.07		Z PNO: Fast ↔ IFGain:Low	#Atten: 1	Run dB	Avg Hold	9/100		4 Dec 12, 2018 E 1 2 3 4 5 6 M 4 4 4 4 4	Auto Tune
29	o dBJ	div R	ef Offset ef 8.58	8.58 dB dBm	10.00	100				-60.9	986 kHz 29 dBm	Auto Tune
81	42	12.3							÷ - ÷	1.1		Center Freq
						1						15.075000 MHz
-1										1000	· · · · · · · · · · · · · · · · · · ·	Start Freq 150.000 kHz
-2										-	-22.00 dDin	150.000 KH2
-a		1.1										Stop Freq 30.000000 MHz
-4		-										CF Step
1.1	1.4	<u>م</u> ۱								1		2.985000 MHz Auto Man
-6	14	hildminned	1.					1	1	10.11		Freq Offset
-7	1.4		Alla VI					1		(0 Hz
-8	14	-	Unite	M. K. Brook for	mananan wasan	uppulsesympto	A nonsikatory	- wwwu-alistadih	apple and and	all an and the second second	generation of	
SI #	tart Res	150 kH BW 10	z		#VBI	W 30 kHz*			Sweep 3	Stop 3 68.3 ms (0.00 MHz	
Mis		511 15			<i>"</i>	- uo nin				DC Cou		
			Analyzor RF SC	P AC			fsE:D≬T]	4	ALIGN OFF	07:10:32 AM	4Dec 12, 2018	Frequency
C	ent	er Fred	13.01	5000000	GHZ PNO: Fast ++ IFGain:Low	Trig: Fre- #Atten: 4	Run dB	Avg Type Avg[Hold:			E 123456	la la constitución de la
10	o dB/	div R	ef Offset						M	kr2 25.9 -31.2	48 GHz 54 dBm	Auto Tune
	1.1	121						1		1.0		Center Freq
100	0.0			1								13.015000000 GHz
1	0.0	Ŷ			-							Start Freq
0	1.00-				-	11						30.000000 MHz
-1	0.0	-	-		-					-	-13.00 dDm	Stop Freq
-2	0.0	-		-								26.000000000 GHz
	0.0	-	-	-	-	-	-		-		- Hurn	CF Step 2.597000000 GHz
-3	- L	Inne	- Annual Annua	www.	man		man	- man	min			<u>Auto</u> Man
14	0.0				10000					1.0.1		Freq Offset
	0.0		-	1	-							
-4	1					· · · · · ·						0 Hz

Agtend Spectrum Analyzer Swept SA 90% PL PF 59 26 ДоС SPRSEDYT / ДАИЗСИ СРЕ 07:10-40 AM De Center Freq 79,500 kHz PN0: Wide ↔ Trig: Free Run Avg[Hold: 10100 17/95]	2 3 4 5 6	Frequency
IFGain:Low #Atten: 10 dB DETA Ref Offset 8.58 dB Mkr1 9.28:	2 KHz	Auto Tune
10 dBJdiv Ref 8.58 dBm74.573		Center Freq 79.500 kHz
413		
21.4	_	Start Freq 9.000 kHz
31.4	-99.00 dCm	Stop Freq 150.000 kHz
61.4	Auto	CF Step 14.100 kHz Man
714 1		Freq Offset 0 Hz
 01 4 MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	01 pts) ਰ	
Center Freq 15.075000 MHz PHO: Fast - Trig: Free Run FGGintow PAtter: 10 dB 20100 2011	12,2018 2 3 4 5 6 MWMMM A A A A A	Frequency
Ref Offset 8.58 dB Mkr1 1.881 10 dB/div Ref 8.58 dB - 59.558	MHz	Auto Tune
-1.62		Center Freq 15.075000 MHz
114 214	-22-00 aQm	Start Freq 150.000 kHz
-31.4		Stop Freq 30.000000 MHz
61.4	Auto	CF Step 2.985000 MHz Man
ma photo have meeting and have		Freq Offset 0 Hz
21 4 ph at Makey man mar hat the man and a second sup the man provide and a second sup the man second sup the man provide and a second second sup the man provide and a second second second second se	www.	
Start 150 kHz Stop 30.0 #Res BW 10 kHz #VBW 30 kHz* Sweep 368.3 ms (10) #sa \$	01 pts)	
Agilent Spectrum Analyzer - Swept SA R R P 50 0 AC SPREDUCT Avg Type: RMS Center Freq 13.0155000000 GHz Avg Type: RMS Trucc [1	2 3 4 5 6	Frequency
PNO: Fast Ungi Free Kun Avgindid. 9700 Dori A IFGeinLow #Atten: 40 dB MKr2 25.688	GHz dBm	Auto Tune
10 dB/div Ref 30.00 dBm -31.119		Center Freq 015000000 GHz
		Start Freq 30.000000 MHz
	-13.00 dBm	Stop Freq
	26.	000000000 GHz
-20.0		
300	Mun 2.1 Auto	CF Step 597000000 GHz Man
300	Auto	CF Step 59700000 GHz Man Freq Offset 0 Hz

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Agilont Spectrum A	F 50 9 10 0C	SENSEID	TI ALLIGN OFF	07:11:11 AM Dec 12, 2018	
Center Freq	79.500 kHz PNO: IFGair	Wido Trig: Free Run Low #Atten: 10 dB	Avg Type: RMS Avg[Held: 9/100	TYPE MUMANANA DET A A A A A	Frequency
10 dB/div Re	f Offset 8.58 dB ef 8.58 dBm			Mkr1 12.102 kHz -75.018 dBm	Auto Tune
-1.42					Center Freq 79.500 kHz
-11.4					Start Freq 9.000 kHz
-31.4				-33.00 rtSn	Stop Freq 150.000 kHz
-61,4					CF Step 14.100 kHz
-61 4 -71 4 - 1					Auto Man Freq Offset
81 4 WWWWW	z		all alout the many and	Stop 150.00 kHz	0 Hz
#Res BW 1.0		#VBW 3.0 kHz*		174.0 ms (1001 pts)	
Agilent Spectrum A 00 RL R Center Freq	15.075000 MHz PNO:	SENSE DA	Avg Type: RMS Avg[Held: 9/100	07:11:16 AM Dec 12,2018 TRACE 1 2 3 4 5 6 TYPE M MANAGAM DET A A A A A A	Frequency
10 dB/div Re	IFGair of Offset 8.58 dB of 8.58 dBm	Low #Atten: 10 dB		Mkr1 1.881 MHz -58.228 dBm	Auto Tune
-1.42					Center Freq 15.075000 MHz
-11.4				-29.00 aDm	Start Freq 150.000 kHz
-31.4					Stop Freq 30.000000 MHz
-51_4					CF Step 2.985000 MHz Auto Man
71 4 Malanter	wand have builded		ะอิสส์การ์การการการการสร้างสะจะเป็นส่วน		Freq Offset 0 Hz
-81.4	- ny sta	arthalight thereas had for a group	ะมัลส์สะการีการแกรงการกระที่สู่หัดสมรูปสิทธิมรับส	realized on welting the production of	7
Start 150 kHz #Res BW 10 l MSG	kHz	#VBW 30 kHz*	Sweep	Stop 30.00 MHz 368.3 ms (1001 pts) 05 J DC Coupled	
Apilon Spectrum A	13.015000000 GHz	SERIE:04	Avg Type: RMS	07:11:21 AM Dec 12,2018 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET A A A A A A	Frequency
Re	PNO: IFGair of Offset 7.98 dB of 30.00 dBm	Fast Trig: Free Run Low #Atten: 40 dB		Akr2 25.714 GHz -30.992 dBm	Auto Tune
10 dB/div Re 20.0					Center Freq 13.015000000 GHz
10.0					Start Freq 30.000000 MHz
-10.0				-13.00 d0m	Stop Freq
-20.0					26.00000000 GHz CF Step 2.597000000 GHz
0.05			man	- and when the the	2.597000000 GHz Auto Man
-30.0	and and a second and a second	monter			
100 A 100					Freq Offset 0 Hz

	LO RL	Spectrum Analyze RF	50 2 ADC		SENSEIDIT	Avg Type:	LLIGN OFF	07:11:44 AM	1Dec 12, 2018	Frequency
	Cent	ter Freq 79.5		PNO: Wide -+ IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Type: Avg[Hold: 9	100	TRAC TYP DE	E 123456 E MMMMMM T A A A A A A	- Second
	10 dB	Ndiv Ref 8.5	et 8.58 dB 8 dBm				Mk	-75.1	781 kHz 58 dBm	Auto Tune
	-1.42	131					1		10	Center Freq 79.500 kHz
	-11.4			-						Start Freq
	-21.4			-		-				9.000 kHz
	-31.4								-99,00 riOm	Stop Freq 150.000 kHz
	-61_4		_							CF Step 14.100 kHz Auto Man
	-61.4 -	•1							. 11	Freq Offset 0 Hz
_	#Res MSG Agilont	9.00 kHz BW 1.0 kHz Spectrum Analyze	Swept SA	#VBW	1 3.0 kHz*	WAN AM WEAK	weep 174	Stop 15 4.0 ms (9 DC Cou	0.00 kHz 1001 pts)	Frequency
				PNO: Fast IFGain:Low	#Atten: 10 dB	Avginoid: 9		kr1 1.8	81 MHz	Auto Tune
	10 dB	Vdiv Ref 8.5	et 8,58 dB 8 dBm	1		1 1		-60.5	79 dBm	
	-1.42			-		_	-			Center Freq 15.075000 MHz
	-11.4			-						Start Freq
	-21.4			-					-22.00 dDm	150.000 kHz
	-31.4									Stop Freq 30.000000 MHz
	-51_4	<u>.</u>								CF Step 2.985000 MHz Auto Man
	-61.4	Antonination	whenthe			dynisticity it statedir.				Freq Offset 0 Hz
	-01.4			and when and the	electroperstandstrate	denimental statestic	Hindrown and Harry	Anarahan ang ang ang ang ang ang ang ang ang a	life you want	
			-							1.0.0
	#Res MSG	BW 10 kHz		#VBW	/ 30 kHz*	5	weep 36	8.3 ms (DC Cou		
		Spectrum Analyze RF ter Freq 13.0			SENSEINT	Aug	LIGN OFF	07:11:53 AM	1Dec 12, 2018	Frequency
	Cen			PNO: Fast	Trig: Free Run #Atten: 40 dB	Avg Type: Avg[Hold: 6			E 123456 E MMMMMM T A A A A A A	Auto Tune
	10 dB	Ref Offs Idiv Ref 30	et 7.98 dB 00 dBm	-			MK	-30.98	88 GHz 81 dBm	Hais Faire
	20.0	1 1								Center Freq 13.015000000 GHz
	10.0	Q1		-		_			1	
	0.00			-		_				Start Freq 30.000000 MHz
	-10.0			-		_			-13.00 d0m	Stop Freq
	-20.0									26.00000000 GHz
	-30.0							inner	man	CF Step 2.597000000 GHz
	-40.0	-		whenter	The second state of the se	- man				<u>Auto</u> Man
	-50.0							-		Freq Offset 0 Hz
	-60.0									

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Action Spectrum Analyze 20 RL RF Center Freq 79.	SO SADC	SENGERDIT]	ALIGN OFF 07:10:5	5AM Dec 12, 2018 RACE 1 2 3 4 5 6	Frequency
Batom		Trig: Free Run Avg H Atten: 10 dB	Mkr1	9.423 kHz .320 dBm	Auto Tune
10 dB/div Ref 8.					Center Freq 79.500 kHz
-11.4			-	-	Start Freq
-21.4					9.000 kHz Stop Freq
-41.4					150.000 kHz CF Step
-61.4				1	14,100 kHz <u>Auto</u> Man
-71.4 7 MANNA WWW	MU prospering version and and and and and and and and and an	monthe man Marman	monumenter	MAMAN	Freq Offset 0 Hz
Start 9.00 kHz			Stop	150.00 kHz	1
#Res BW 1.0 kHz		.0 kHz*	Sweep 174.0 m		
Agilent Spectrum Analyze 20 RL RF Center Freq 15.	075000 MHz	SENSE/DITI Avg 1 Trig: Free Run Avg H	ALIGN OFF 07:11:0 ype: RMS 7 old: 9/100	1 AM Dec 12, 2018 RACE 1 2 3 4 5 6 TYPE MWAMMAN DET A A A A A A	Frequency
10 dB/div Ref Off	IFGain:Low # Set 8.58 dB 58 dBm	Atten: 10 dB	Mkr1 1	.881 MHz .924 dBm	Auto Tune
-1.42					Center Freq 15.075000 MHz
-11.4				-23.00 alim	Start Freq 150.000 kHz
-31.4					Stop Freq 30.000000 MHz
-41.4					CF Step 2.985000 MHz
GIA T	weeking have a				Auto Man Freq Offset
61.4	well the second s	gennest mart programmer and an production	Produktion des durch des produces	reconstability	0 Hz
#Res BW 10 kHz			Sweep 368.3 m	s (1001 pts)	
MSG Agilent Spectrum Analyze UK RL RF	SO Q AC	SERIE: DVT	STATUS DC C	4 AM Dec 12, 2018	
Bef Off	015000000 GHz PNO: Fast IFGain:Low	Avg 1 Trig: Free Run Avg H Natten: 40 dB	When the second	DET A AAAAAA	Frequency Auto Tune
10 dB/div Ref 30	0.00 dBm		-30	.779 dBm	Center Freq 13.015000000 GHz
10.0				-	Start Freq
0.00					30.000000 MHz
-10.0				-13.00'd0m	Stop Freq 26.000000000 GHz
-10.0					
30.0			man	- mark	CF Step 2.597000000 GHz Auto Man
30.0	we wanted and the second		m		CF Step 2.59700000 GHz <u>Auto</u> Man Freq Offset 0 Hz

Ī	CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_I		
	Center Freq 79.500 kHz Avg Type: RMS Trig: Free Run Avg Type: RMS Avg Type: RMS Trig: Free Run Avg Hold: 9/100	M Dec 12, 2018 ACE 1 2 3 4 5 6 YPE M WAYNAWA DET A A A A A A	ency
	IFGeiniLow #Atten: 10 dB Mkr1 14		to Tune
	142	Cent 79	ter Freq 0.500 kHz
	-11.4	Sta	art Freq 1.000 kHz
	A(F)		op Freq
	61.4	14	CF Step
		Auto	Man q Offset
	on a manufarrow was and a manufarrow of the second and and and and and a second and a second and a second and a	mannahyn	0 Hz
	#Res BW 1.0 kHz #VBW 3.0 kHz* Sweep 174.0 ms		
-	M90 874705 ∰ DC C Agilent Spectrum Andyzer Stwapt 5A Ø RL 2F 00 C ACC 50585 071 ▲ ▲ 1007 575 (073133		ency
	Mkr1 1.	B81 MHz Au	to Tune
	Ref Offset 8.58 dB MKr1 1. 10 dB/div Ref 8.58 dBm -60. 1.42 -60. -60.	S91 dBm Cent	ter Freq
	31A		art Freq
	214		0.000 kHz
	41.4	30.000	op Freq 1000 MHz
	614 614	2.985 <u>Auto</u>	CF Step 000 MHz Man
	27.4 mlantistic aparticities and the second state of the second st	Free	q Offset 0 Hz
		30.00 MHz	- 1
	#Res BW 10 kHz #VBW 30 kHz* Sweep 368.3 ms	(1001 pts)	
	Aglient Spectrum Analyser . Swept SA W RL #F Sobr AC SetBERATI & Avag Type: RMS TT Center Freq 13.015000000 GHz FRO: Fast	AM Dec 12,2018 ACE 1 2 3 4 5 6 Frequencies DET A A A A A A A	ency
	Ref Officet 7 98 dE Mkr2 25.		to Tune
	20.0	Cent 13.015000	ter Freq 1000 GHz
			art Freq 1000 MHz
	-10.0	-13.00 d0m Stu 26.000000	op Freq
	30.0	à	
	400	Auto	Man q Offset
	-50.0		0 Hz
	60.0		

Agilent Spectrum Analyzer - Swept SA	SEMSE(D)T	ALIGN OFF 07:12	00 AM Dec 12, 2018	Frequency
Center Freq 79.500 kHz Ref Offset 8.58 dB 10 dB/div Ref 3.58 dBm	PNO: Wide Trig: Free Run IFGain:Low #Atten: 10 dB	Avg Type: RMS Avg Hold: 9/100 Mkr1_1	0.833 KHz	Auto Tune
10 dB/div Ref 8.58 dBm		-73	2.370 dBm	Center Freq
-1.42				79.500 kHz
-11.4				Start Freq
-21.4				9.000 kHz
-31.4				Stop Freq 150.000 kHz
61.4				CF Step 14.100 kHz Auto Man
AL	hamment and program and	MARA BA ANNA A		Freq Offset 0 Hz
Carl Country of the	and when when the some when a			1
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 kHz*	Sweep 174.0 n status 1 DC		
 Agilent Spectrum Analyzer - Swept SA				
Center Freq 15.075000	MHz PNO: Fast Trig: Free Run	Avg Type: RMS Avg[Hold: 9/100	05AM Dec 12,2018 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET A A A A A A	Frequency
Ref Offset 8.58 dB 10 dB/div Ref 8.58 dBm		Mkr1	1.881 MHz 3.071 dBm	Auto Tune
10 dB/div Ref 8.58 dBm				Center Freq
-1/42				15.075000 MHz
-11:4				Start Freq
-21.4			-22.00 dDm	
-31.4				Stop Freq 30.000000 MHz
-51.4				CF Step
-61 A 4 ¹				2.985000 MHz Auto Man
71 4 Martin pharman	Auto I			Freq Offset 0 Hz
-61.4	montal hardwardson and othis postility of	uthan and a still of the collection and a short	and an	0 112
#Res BW 10 kHz MSG	#VBW 30 kHz*	Sweep 368.3 n		
Agilent Spectrum Analyzer Swept SA	SENSEDAT	Avg Type: RMS	08 AM Dec 12, 2018	Frequency
Center Freq 13.0150000	PNO: Fast +	Avg Hold: 6/100	08AM Dec 12, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET A A A A A A	
10 dB/div Ref 30.00 dBm	1	Mkr2 2 -3	5.662 GHz 1.139 dBm	Auto Tune
Log			1 6 1 1	Center Freq 13.015000000 GHz
20.0				
20.0				Start Freq 30.000000 MHz
200 100 - Q ¹			-13.00'dDm	30.000000 MHz
200 100 Q ¹				
200 100 -100				30.000000 MHz Stop Freq 25.000000000 GHz CF Step 2.597000000 GHz
				30.000000 MHz Stop Freq 26.00000000 GHz CF Step 2.697000000 GHz Man
				30.000000 MHz Stop Freq 25.000000000 GHz CF Step 2.597000000 GHz
				30.00000 MHz Stop Freq 26.00000000 GHz CF Step 2.597000000 GHz Man Freq Offset

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