# Appendix D: Test Data for E-UTRA Band 5

# Product Name: 4G Mi-Fi Trade Mark: LOGIC, iSWAG, UNONU Test Model: ML10

**Environmental Conditions** 

Temperature:	23.1° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	DIAMOND.LU
Supervised by:	LI HUAN

# **D.1 Conducted Output Power**

		Conducted	Output Pow	ver Test Result (Channel Band	width: 1.4 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	23.85	23.31	PASS
		1	3	23.48	22.84	PASS
		1	5	23.40	22.70	PASS
	LCH	3	0	23.33	22.85	PASS
		3	2	23.00	22.39	PASS
		3	3	23.10	22.09	PASS
		6	0	23.10	21.77	PASS
		1	0	23.80	22.38	PASS
		1	3	23.93	22.48	PASS
QPSK /		1	5	23.74	22.69	PASS
16QAM	MCH	3	0	23.84	22.81	PASS
TOQAM		3	2	23.86	22.73	PASS
		3	3	23.82	22.59	PASS
		6	0	22.86	21.61	PASS
		1	0	24.15	23.44	PASS
		1	3	24.14	23.51	PASS
		1	5	24.04	23.48	PASS
	НСН	3	0	24.09	23.14	PASS
		3	2	24.08	23.21	PASS
		3	3	24.00	23.13	PASS
		6	0	23.39	22.26	PASS

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		Conducte	d Output Pov	wer Test Result (Channel Ban	dwidth: 3 MHz)	
	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdiet
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.52	22.75	PASS
		1	7	23.62	22.87	PASS
		1	14	23.77	22.97	PASS
	LCH	8	0	22.95	21.88	PASS
		8	4	23.08	22.06	PASS
		8	7	23.12	22.29	PASS
		15	0	23.00	22.07	PASS
		1	0	23.59	22.86	PASS
		1	7	24.05	23.19	PASS
QPSK /		1	14	23.77	23.15	PASS
16QAM	MCH	8	0	22.81	21.82	PASS
TOQAIM		8	4	22.90	21.87	PASS
		8	7	22.87	21.80	PASS
		15	0	22.82	21.76	PASS
		1	0	24.03	23.41	PASS
		1	7	24.12	23.38	PASS
		1	14	24.03	23.47	PASS
	НСН	8	0	23.20	22.21	PASS
		8	4	23.25	22.15	PASS
		8	7	23.27	22.24	PASS
		15	0	23.27	22.34	PASS

		Conducted		ver Test Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	23.54	22.39	PASS
		1	12	23.86	22.81	PASS
		1	24	24.33	22.51	PASS
	LCH	12	0	22.88	21.84	PASS
		12	6	23.08	22.09	PASS
		12	13	22.92	21.90	PASS
		25	0	22.99	22.06	PASS
		1	0	23.55	22.41	PASS
		1	12	24.26	22.99	PASS
QPSK /		1	24	23.94	22.82	PASS
16QAM	MCH	12	0	22.79	21.75	PASS
TOQAIN		12	6	22.97	21.76	PASS
		12	13	22.87	21.71	PASS
		25	0	22.80	21.87	PASS
		1	0	24.06	22.87	PASS
		1	12	24.37	23.07	PASS
		1	24	23.77	22.79	PASS
	HCH	12	0	23.06	22.10	PASS
		12	6	23.22	22.18	PASS
		12	13	23.26	22.25	PASS
		25	0	23.25	22.44	PASS

		Conducted Out		ver Test Result (Channel Band	lwidth: 10 MHz)	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vordiat
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	22.94	22.23	PASS
		1	24	24.58	24.01	PASS
		1	49	23.41	22.78	PASS
	LCH	25	0	22.96	21.89	PASS
		25	12	23.06	21.98	PASS
		25	25	22.82	21.79	PASS
		50	0	22.90	21.87	PASS
		1	0	23.71	23.15	PASS
		1	24	24.29	23.51	PASS
QPSK /		1	49	23.79	22.94	PASS
16QAM	MCH	25	0	22.81	21.81	PASS
TOQAIM		25	12	22.93	21.85	PASS
		25	25	22.94	21.89	PASS
		50	0	22.85	21.78	PASS
		1	0	23.97	23.25	PASS
		1	24	24.10	23.31	PASS
		1	49	23.57	22.87	PASS
	HCH	25	0	23.11	22.14	PASS
		25	12	23.06	22.12	PASS
		25	25	23.13	22.09	PASS
		50	0	23.14	22.20	PASS

Report No.: LCS200730059AEE

## D.2 Peak-to-Average Ratio

	Peak-to Average Rat	io Test Result (Channel	Bandwidth: 1.4 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
wouldtion	Channel	[dB]	[dB]	verdict
	LCH	5.23	<13	PASS
QPSK	MCH	5.23	<13	PASS
	НСН	4.71	<13	PASS
	LCH	6.08	<13	PASS
16QAM	MCH	6.08	<13	PASS
	НСН	5.72	<13	PASS

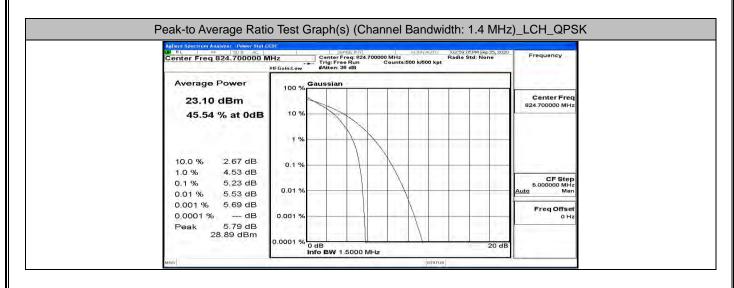
	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 3 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
wouldton	Channel	[dB]	[dB]	Verdict
	LCH	5.29	<13	PASS
QPSK	MCH	5.24	<13	PASS
	НСН	4.92	<13	PASS
	LCH	6.16	<13	PASS
16QAM	MCH	6.2	<13	PASS
	НСН	5.82	<13	PASS

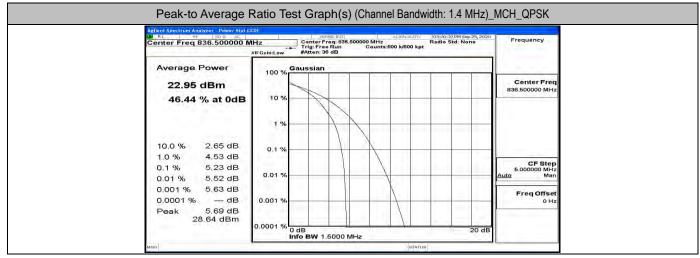
	Peak-to Average Ra	atio Test Result (Channel	Bandwidth: 5 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation	Channel	[dB]	[dB]	Verdict
	LCH	5.16	<13	PASS
QPSK	MCH	5.23	<13	PASS
	HCH	4.84	<13	PASS
	LCH	5.94	<13	PASS
16QAM	MCH	6.04	<13	PASS
	HCH	5.73	<13	PASS

	Peak-to Average Rat	tio Test Result (Channel	Bandwidth: 10 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation	Channel	[dB]	[dB]	Verdict
	LCH	5.04	<13	PASS
QPSK	MCH	5.17	<13	PASS
	НСН	5.16	<13	PASS
	LCH	5.88	<13	PASS
16QAM	MCH	5.97	<13	PASS
	НСН	5.86	<13	PASS

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Report No.: LCS200730059AEE

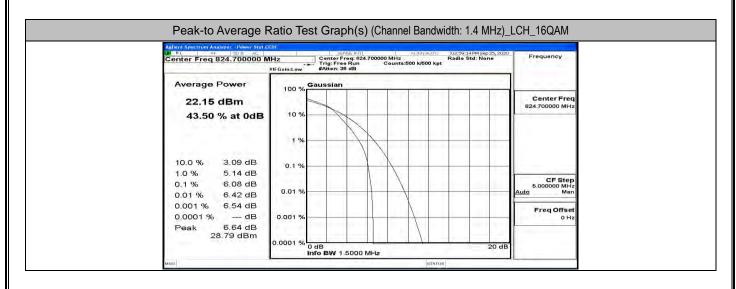


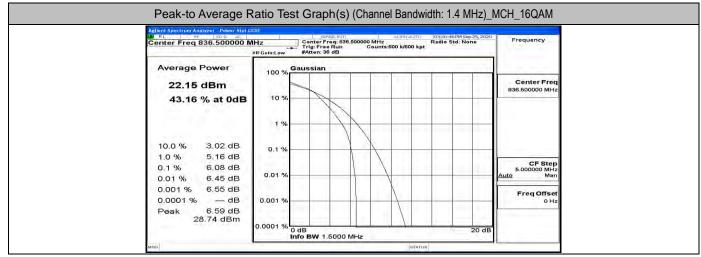


LW RL RF SDQ AC	CODE SENSE:INT ALIGN AUTO	03:02:09 PM Sep 25, 2020	
Center Freq 848.300000 1	MHz Center Freq: 848,300000 MHz Trig: Free Run Counts:500 k/500 k	Radio Std: None	Frequency
1222.2.2022	#IFGain:Low #Atten: 36 dB		
Average Power	100 % Gaussian	1	
23.59 dBm			Center Freq 848.300000 MHz
48.51 % at 0dB	10 %		
	1 %		
10.0 % 2.60 dB			
1.0 % 4.16 dB	0.1 %		
0.1 % 4.71 dB			CF Step 5.000000 MHz
0.01 % 4.96 dB	0.01 %		Auto Man
0.001 % 5.11 dB			Freq Offset
0.0001 % dB	0.001 %		0 Hz
Peak 5.15 dB 28.74 dBm			
440 11 2 2 3 30	0.0001 % 0 dB	20 dB	1 100

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Report No.: LCS200730059AEE

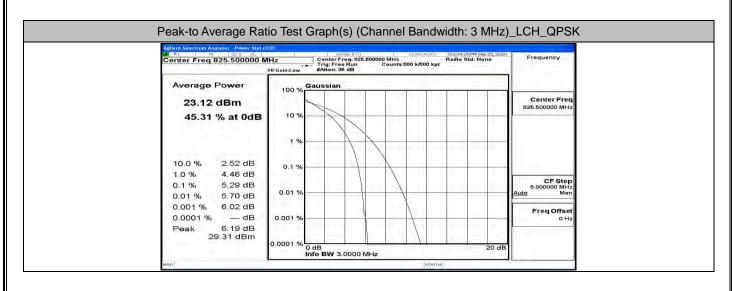


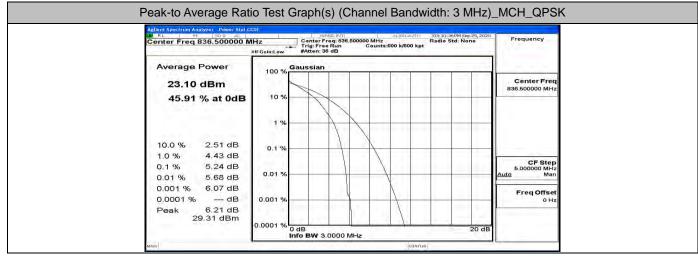


	AHz Center Freq: 84	ALIGNAUTO	03:02:17PM Sep 25, 2020 Radio Std: None	Frequency
Center Freq 848.300000 N	#IFGain:Low #Atten: 36 dB	Counts:500 k/500 kpt	cadio Sta: None	A Contraction
100000000000000000000000000000000000000				
Average Power	100 % Gaussian			
22.25 dBm				Center Freq 848,300000 MHz
44.65 % at 0dB	10 %			848.300000 MHZ
The four out		2		
	1%			
10.0 % 3.03 dB	0.1 %			
1.0 % 4.97 dB	0.1 %			
0.1 % 5.72 dB	1.000			CF Step 5.000000 MHz
0.01 % 6.01 dB	0.01 %			<u>Auto</u> Man
0.001 % 6.14 dB	and the second sec			Freq Offset
0.0001 % dB	0.001 %			0 Hz
Peak 6.22 dB 28.47 dBm				
28.47 0811	0.0001 % 0 dB		20 dB	
	Info BW 1.5000	MHz	20 08	

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Report No.: LCS200730059AEE

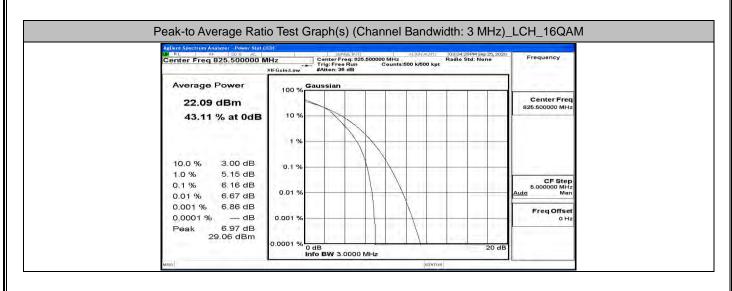


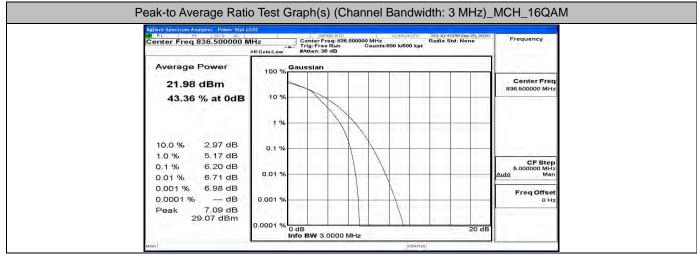


LW RL RF SD Q AC	COD F SENS	INT	ALIGNAUTO 109:14	38 PM Sep 25, 2020	
Center Freq 847.500000 I		4: 847.500000 MHz Counts:50	Radio	Std: None	Frequency
Average Power	100 % Gaussian				
23.62 dBm					Center Freq 847.500000 MHz
47.40 % at 0dB	10 %				
10057-00	1 %				
10.0 % 2.47 dB	0.1 %				
1.0 % 4.20 dB 0.1 % 4.92 dB					CF Step 5.000000 MHz
0.01 % 5.29 dB 0.001 % 5.43 dB	0.01 %				<u>Auto</u> Man
0.0001 % dB	0.001 %		$\left  - \right $		Freq Offset 0 Hz
Peak 5.54 dB 29.16 dBm	1.00 t []				
- 100 / 200 a (D)	0.0001 % 0 dB		<u></u>	20 dB	

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Report No.: LCS200730059AEE

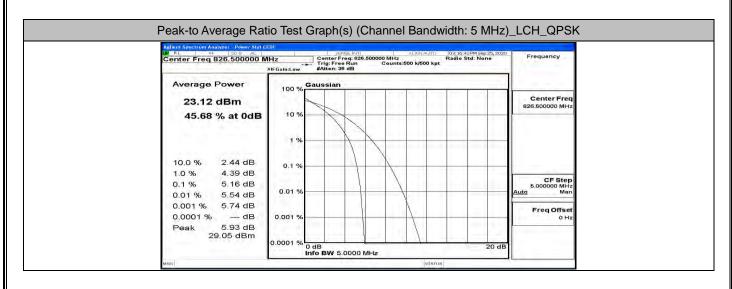


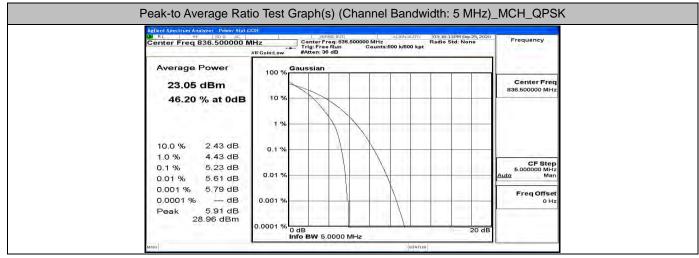


LW RL RF SDQ AC	CDF SENSE:INT ALIGNAUTO	03:15:17PM Sep 25, 2020	Frequency
Center Freq 847.500000 M	AHz Center Freq: 847.500000 MHz Trig: Free Run Counts:500 k/500 kpt #Atten: 36 dB	Radio Std: None	requertey
Average Power	100 % Gaussian		
22.47 dBm			Center Freq 847.500000 MHz
44.28 % at 0dB	10 %		
	1 %		
10.0 % 2.95 dB	0.1 %		
1.0 % 4.95 dB 0.1 % 5.82 dB 0.01 % 6.26 dB	0.01 %		CF Step 5.000000 MHz Auto Man
0.001 % 6.48 dB 0.0001 % dB	0.001 %		Freq Offset
Peak 6.52 dB			0.112
28.99 dBm	0.0001 % 0 dB	20 dB	

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Report No.: LCS200730059AEE

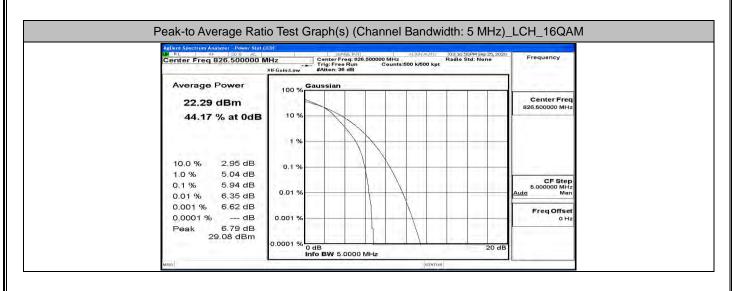


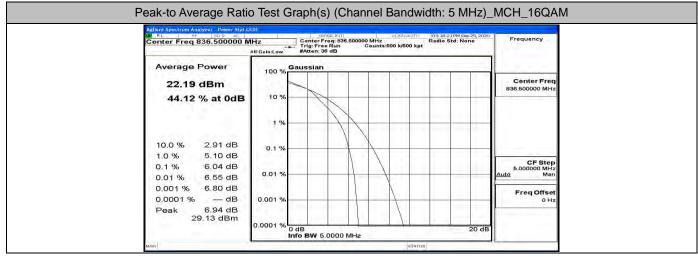


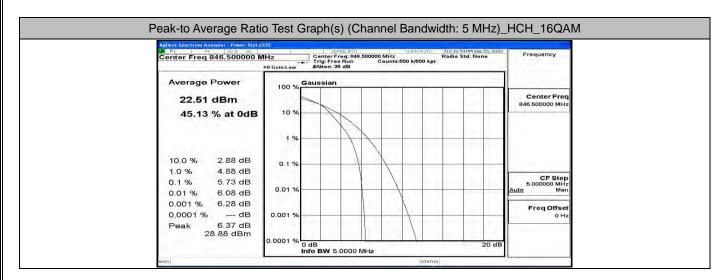
Agilent Spectrum Analyzer Power Stat C	and the second s	SENSE IN	171	ALIG	NAUTO 109:	19:46 PM Sep 25, 2020	1
Center Freq 846.500000 N		Center Freq: Trig: Free Rui #Atten: 36 dB	846.500000 C	MHz ounts:500 k.	Rad	lio Std: None	Frequency
Average Power	6.	ussian		_			
23.62 dBm	100 %						Center Freq 846.500000 MHz
47.65 % at 0dB	10 %	N					
	1 %		1				
10.0 % 2.40 dB 1.0 % 4.16 dB	0.1 %						
0.1 % 4.84 dB 0.01 % 5.21 dB	0.01 %—			$\backslash$			CF Step 5.000000 MHz Auto Man
0.001 % 5.53 dB 0.0001 % dB	0.001 %	_	1				Freq Offset 0 Hz
Peak 5.75 dB 29.37 dBm	0.0001 % 0 d						1

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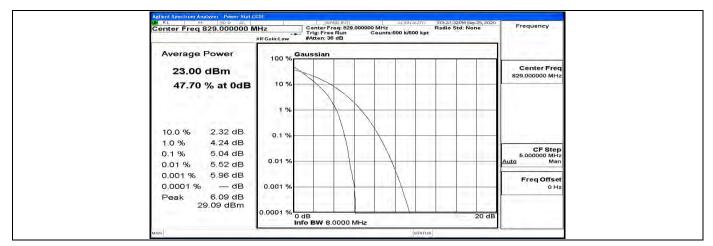




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK

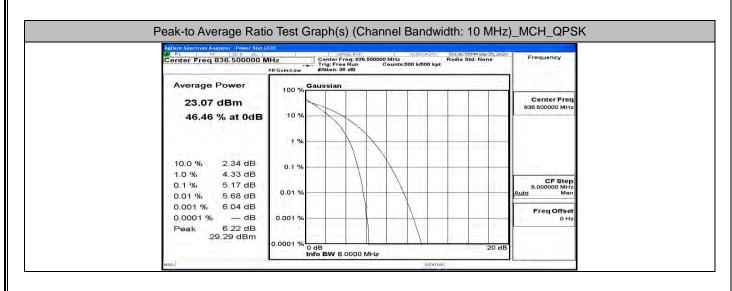
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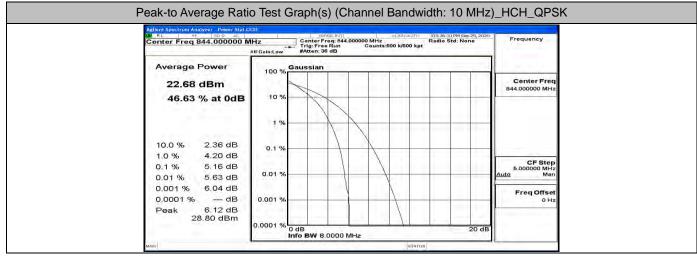
Report No.: LCS200730059AEE

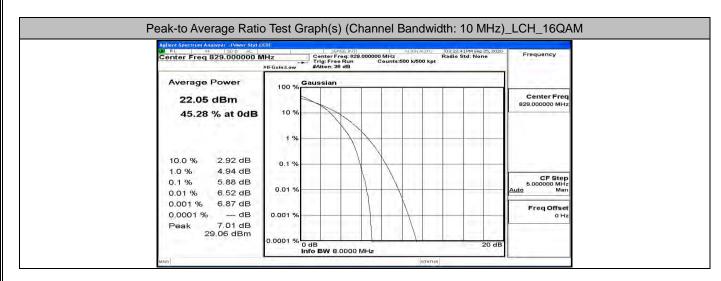


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Report No.: LCS200730059AEE







Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

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04 RL   8⊦  20 2 AC   Center Freq 836.500000 M	Hz Center Freq: 386,500000 MHz Autor Docator Misep 25, 2020. Freq: See, Source Counts: 500 k/S00 kpt Attended Std: None VIFGain:Low Atten: 36 dB	Frequency
Average Power	100 % Gaussian	
22.14 dBm	10 %	Center Freq 836.500000 MHz
44.39 % at 0dB	1%	
10.0 % 2.91 dB	0.1 %	
1.0 % 5.00 dB 0.1 % 5.97 dB 0.01 % 6.58 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 6.96 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 7.09 dB 29.23 dBm	0.0001 % 0 dB 20 dB	

Report No.: LCS200730059AEE

NU RL RF SDQ AC	CDF ALIGN AUTO 09:36:41 PM Sep 25, 2	720 Frequency
Center Freq 844.000000 M	AHz Center Freq: 844.000000 MHz Radio Std: None Trig: Free Run Counts:500 k/500 kpt #IFGain:Low #Atten: 36 dB	Frequency
Average Power	Councilor	
21.75 dBm	100 % Gaussian	Center Freq 844.000000 MHz
44.79 % at 0dB 10.0 % 2.93 dB 1.0 % 4.84 dB 0.1 % 5.86 dB 0.01 % 6.45 dB 0.001 % 6.82 dB 0.0001 % dB Peak 7.16 dB	1 % 0.1 % 0.01 % 0.001 %	CF Step 5.00000 MHz Auto Man Freq Offset 0 Hz
28.91 dBm	0.0001 % 0 dB 20 0 dB 20 0 dB	яB

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# D.3 26dB Bandwidth and Occupied Bandwidth

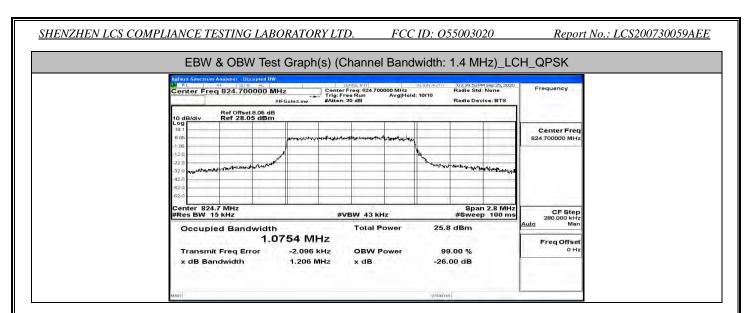
	EBW & OBW Te	est Result (Channel Band	width: 1.4 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	verdict
	LCH	1.0754	1.206	PASS
QPSK	MCH	1.0766	1.222	PASS
	HCH	1.0754	1.223	PASS
	LCH	1.0810	1.243	PASS
16QAM	MCH	1.0756	1.248	PASS
	НСН	1.0791	1.221	PASS

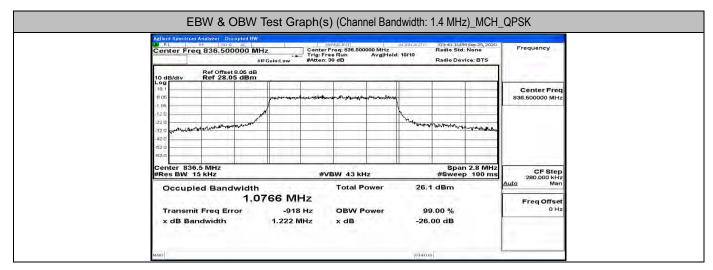
	EBW & OBW T	est Result (Channel Ban	dwidth: 3 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	Verdict
	LCH	2.6781	2.836	PASS
QPSK	MCH	2.6801	2.849	PASS
	HCH	2.6774	2.823	PASS
	LCH	2.6822	2.847	PASS
16QAM	MCH	2.6811	2.838	PASS
	НСН	2.6765	2.831	PASS

	EBW & OBW T	est Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
MODUIATION	Channel	(MHz)	(MHz)	Verdici
	LCH	4.4783	4.878	PASS
QPSK	MCH	4.4756	4.944	PASS
	НСН	4.4764	4.954	PASS
	LCH	4.4823	4.844	PASS
16QAM	MCH	4.4781	4.775	PASS
	НСН	4.4863	4.862	PASS

	EBW & OBW Te	est Result (Channel Band	lwidth: 10 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
MODULATION	Channel	(MHz)	(MHz)	Verdict
	LCH	8.9493	9.485	PASS
QPSK	MCH	8.9311	9.467	PASS
	НСН	8.9536	9.570	PASS
	LCH	8.9360	9.529	PASS
16QAM	MCH	8.9469	9.500	PASS
	HCH	8.9400	9.548	PASS

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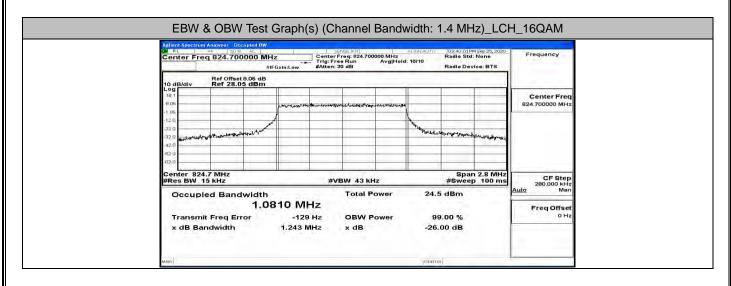


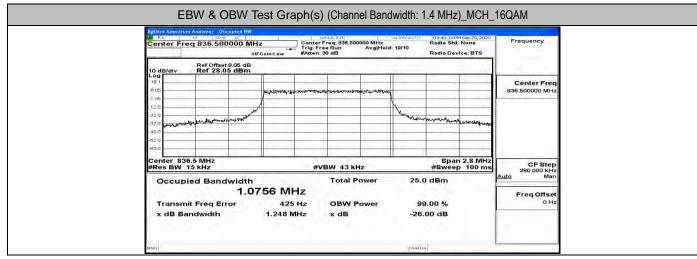


	K = 10.9 AC Set									
	#IFGain:Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.27 dB									
10 dB/div	Ref Offset	dBm								
18 3 8 27			pontermond	male later	alphone	-			-	Center Fred 848.300000 MHz
-1.73		A								
-21 7 -31 7 -41 7	ware water mail months	pusod			-		"have	amonganat	Y-ABANNON-ANA	
-51.7										
Center 8 #Res BW				#VI	BW 43 KH	Iz		Spar #Sweep	1 2.8 MHz 2 100 ms	CF Step 280.000 kHz
Occu	pied Band	width			Total P	ower	26.	3 dBm		Auto Man
Trans	mit Freq Err		54 M		OBW P			9.00 %		Freq Offset
	Bandwidth	01	1.223		x dB	ower		00 dB		

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Report No.: LCS200730059AEE

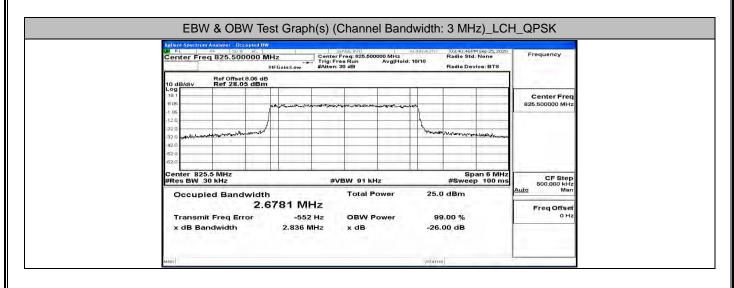


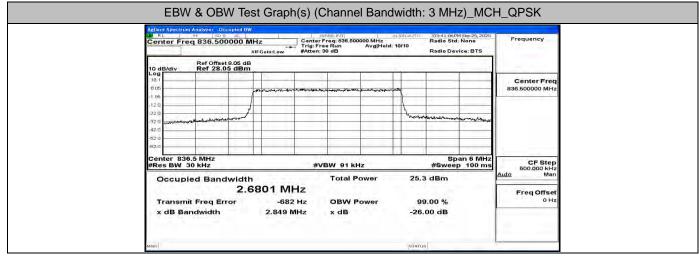


BL RE			56	INFRE: INJT		ALIGNAUTO	03:40:38 P	M Sep 25, 2020	-
Center Freq 84	and some officers of the second second	Hz #FGain:Low			Avg Hold	: 10/10	Radio Std		Frequency
10 dB/div Re	Offset 8.27 dB f 28.27 dBm					w			
18 3 8 27		montom	()efortedation	matriantician	A TOMAN DAY ON THE			1	Center Free 848.300000 MH
-1.73	_	and the second s				1			
-21.7 -31.7 -41.7	town the charment of the					Thereward	en all the second provide the se	and many	
-61.7		_			-				
Center 848.3 M #Res BW 15 kH			#V	BW 43 KI	Hz	<u>.</u>	Spai #Swee	n 2.8 MHz p 100 ms	CF Ster 280.000 kH
Occupied B				Total P	ower	25.	8 dBm		<u>Auto</u> Mar
Transmit Fre		791 M -1.264		OBW F	ower	9	9.00 %		Freq Offse 0 H
x dB Bandwi	dth	1.221	MHz	x dB		-26	00 dB		

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Report No.: LCS200730059AEE

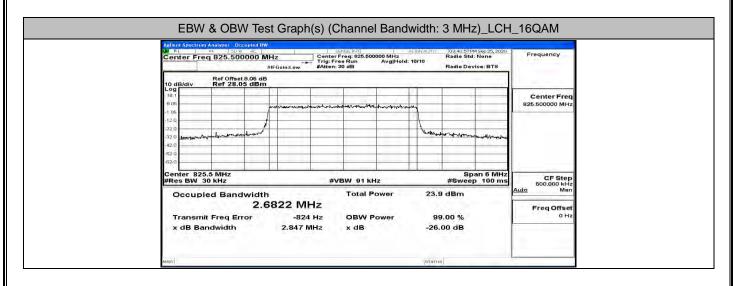


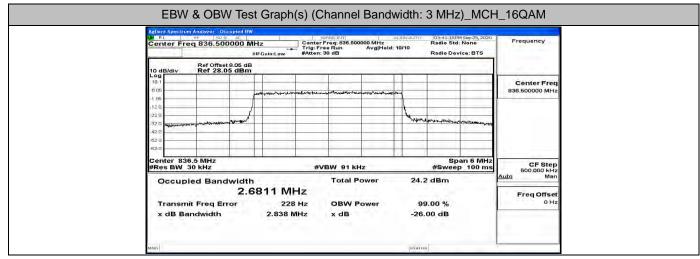


t Spectrum Analyzer - Occupied BW	N.	1	NSEINT	IGN AUTO	1000 10 000 00	M Sep 25, 2020	
nter Freq 847.500000 M	Hz #IFGain:Low	Center F	req: 847.500000 MHz e Run Avg Hold: 1	100	Radio Std	None	Frequency
B/div Ref 28.27 dB							
	he arthrainmean	dealeunaupean	to for any weather the former and former				Center Freq 847.500000 MHz
				1			
Anone and and set the start and the start		_		An alter	with with the loss of the loss	lumanlasyna.py	
nter 847.5 MHz		_			Sn	an 6 MHz	1
s BW 30 kHz		#VE	3W 91 kHz	-	#Swee	p 100 ms	CF Step 500.000 kHz Auto Man
ccupied Bandwidth	5774 MH	17	Total Power	25.	9 dBm		-
ransmit Freq Error	-4.251 k		OBW Power	9	9.00 %		Freq Offset 0 Hz
dB Bandwidth	2.823 M	Hz	x dB	-26	.00 dB		1

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Report No.: LCS200730059AEE

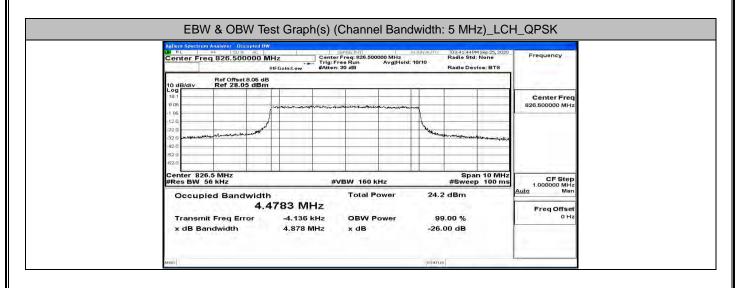


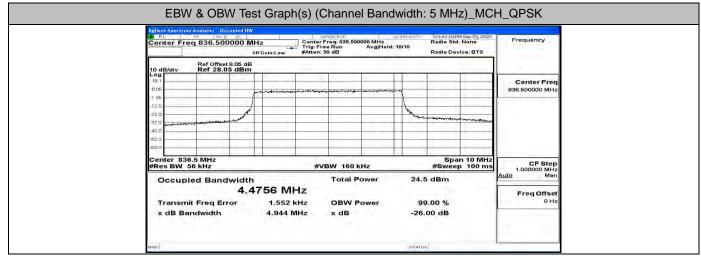


Adlend Spectrum Analyzer - Occupied IW 2017 RL 90 - AC SENSE (VIT ALKS/RUITO 02:41:341/M Sep 25, 2020 Center Freq: 847,500000 MHz Radio Std: None Center Freq: 847,500000 MHz Radio Std: None								
Center Freq 047.500000 h	#IFGain:Low		e Run /	Avg Hold: 10	/10	Radio Dev		
Ref Offset 8.27 dB						_		
18 3				_	-			Center Freq
6.27	manumber	moltiment	how was a fear of the second	information and	1			847.500000 MHz
-11.2	<u> </u>				1	-		
-217 -317	1				with	" demonstration	- and and and the	
:41.7 :51.7						1.5 0 000	Can louis Aut	
61.7				_	-		-	
Center 847.5 MHz #Res BW 30 kHz		#VI	BW 91 kHz	2		Sp #Swee	an 6 MHz p 100 ms	CF Step 500.000 kHz
Occupied Bandwidt	h		Total Pov	ver	24.5	dBm		Auto Man
2.	6765 MI	Ηz						Freq Offset
Transmit Freq Error	-1.292		OBW Pov	wer		9.00 %		0 Hz
x dB Bandwidth	2.831 N	AHZ	x dB		-26.	00 dB		1

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Report No.: LCS200730059AEE

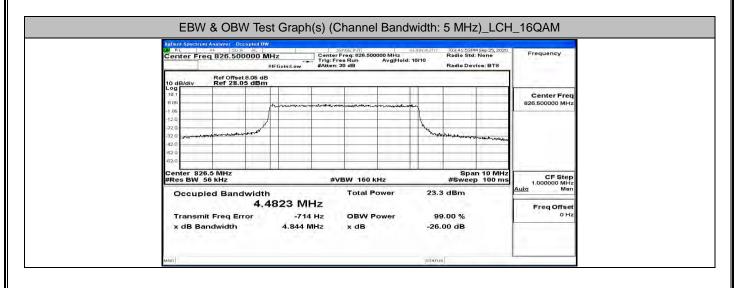




Agilent Spectrum Analyzer - Occupied			SENSEINT		ALIGNAUTO	103-43-31 04	4 Sep 25, 2020		
Center Freq 846.500000 MHz #FGain:Low #FGain:Low Center Freq: 846.500000 MHz Avg Hold: 10/10 Radio Std: None Radio Std: None Radio Std: None Radio Std: None								Frequency	
10 dB/div Ref 28.27 dB									
Log 18-3 8-27	primar	6, 414- 17 <b>6-6</b> - 1- 1- 1- 1-			m-1			Center Freq 846.500000 MHz	
-1.73 -11.2 -21.2	1		1		he has				
-31 7 -41 7 -51.7						The MUNICA AND A STORE	after his many my start		
-61.7 Center 846.5 MHz #Res BW 56 kHz		*	VBW 160	kHz			n 10 MHz 5 100 ms	CF Step	
Occupied Bandwid		1	Total	Power	25.	2 dBm		1.000000 MHz <u>Auto</u> Man	
4 Transmit Freg Error	.4764	-536 Hz	OBW Power		9	9.00 %		Freq Offset 0 Hz	

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Report No.: LCS200730059AEE



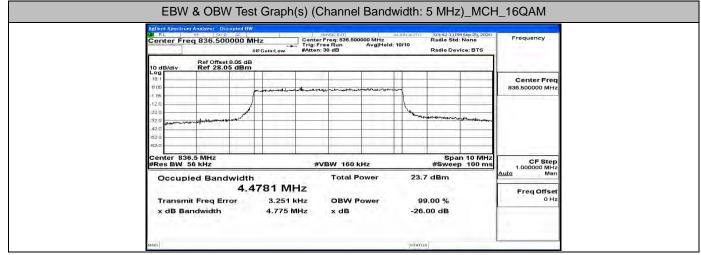
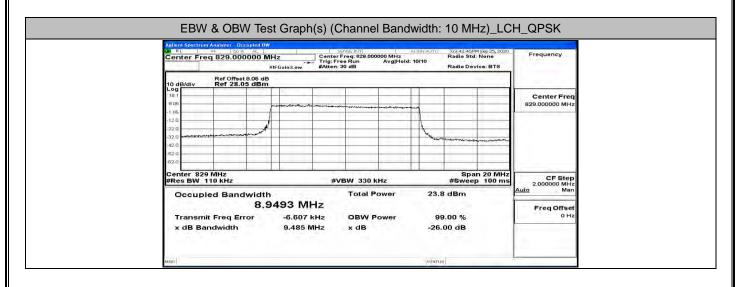
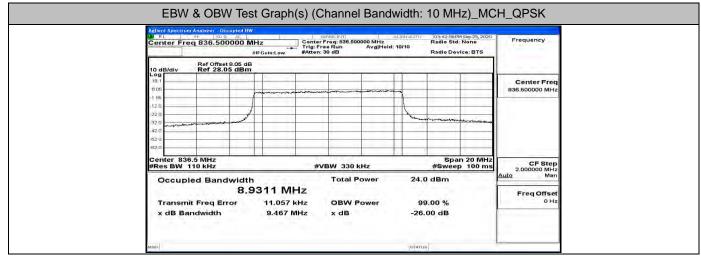


Image: Section 2016  Section 2017  Sectio									
10 dB/div Ref 28.27 dB									
Log 18 3 8.27	Augeronistic antiam.	as notice on all the formation the	- And -		Center Freq 846.500000 MHz				
-1.73 -11.7 -21.2 -31.7			Mary	لموري المربع المراجع المربع المراجع المربع					
-61.7									
Center 846.5 MHz #Res BW 56 kHz		#VBW 160 kHz	1. a.	Span 10 M #Sweep 100					
Occupied Bandwid		Total Power	24.	3 dBm	<u>Auto</u> Man				
4. Transmit Freq Error x dB Bandwidth	4863 MHz. 1.854 kHz 4.862 MHz	OBW Power		9.00 % .00 dB	Freq Offset 0 Hz				

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Report No.: LCS200730059AEE

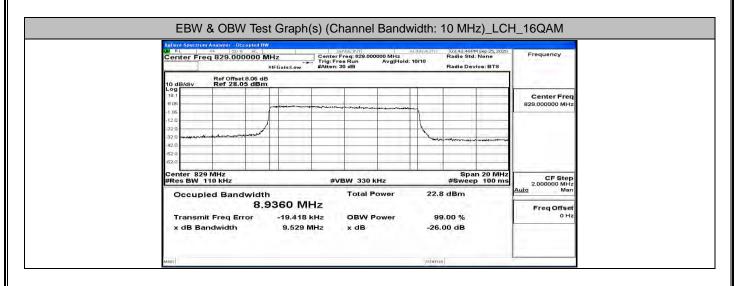


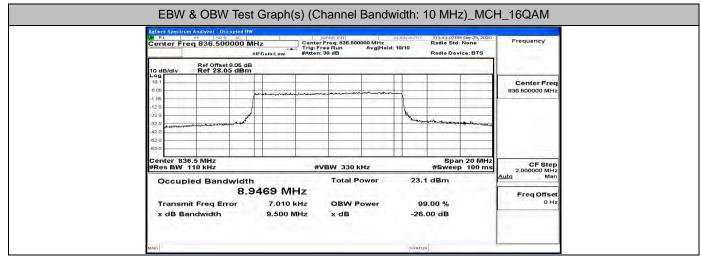


Agilent Spectrum Analyzer - Occupied	E		SENSE:INT		IGNAUTO	03:43:17P	M Sep 25, 2020	Frequency	
Center Freq 844.000000	Center Freq 844.000000 MHz Trig: Freq 844.000000 MHz Trig: Freq Run Avg Held: 10/10 #If Gaim:Low #Atten: 30 dB Radio Device: BTS								
Ref Offset 8.27 dB 10 dB/div Ref 28.27 dBm									
Log						-		Center Fred	
6.27		****				~		-	844.000000 MHz
-1.73	1				1				
217	A	_			1				
-317					Antonio		annum atura		
-61.7									
-61.7			-						
Center 844 MHz #Res BW 110 kHz		#	BW 330 1	Hz		Spa #Sweep	n 20 MHz p 100 ms	CF Step 2.000000 MHz	
Occupied Bandwid	th		Total P	ower	24.6	6 dBm		Auto Man	
	9536	MHz						Freq Offset	
Transmit Freq Error	-15.1	03 kHz	OBW P	ower	99	9.00 %		Freq Offset 0 Hz	
x dB Bandwidth	9.5	70 MHz	x dB		-26.	00 dB			

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Report No.: LCS200730059AEE



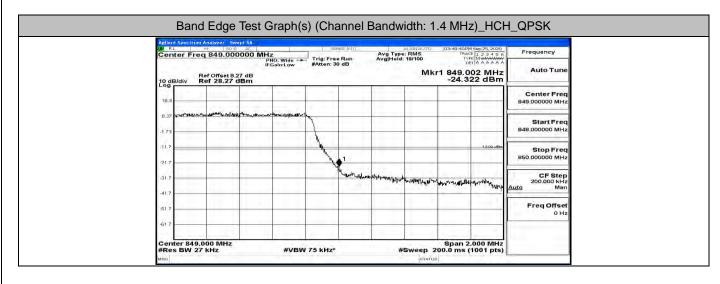


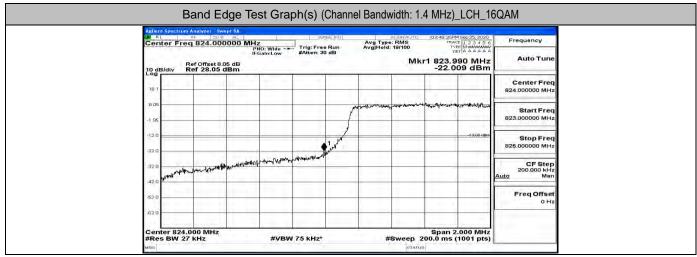
	M Sep 25, 2020	Tres areas pa	LIGNAUTO		NSE INT			etrum Analyzer - Occup				
Frequency	: None	Center Freq 844.000000 MHz #IF Gain:Low #IF Gain:Low Center Freq: 844.000000 MHz Taily Freq: 844.000000 MHz Taily Freq: 844.000000 MHz Avg Held: 10/10 Radio Std: None Radio Device: BTS										
	Ref Offset 8.27 dB 10 dB/div Ref 28.27 dBm											
Center Fre 844.000000 MH			-	woodunaaroona		-b	Jane		18 3 18 27			
			L						-1.73			
	Personal seasons	ana <sub>t</sub> a <u>ana an</u> a ang ang ang ang ang ang ang ang ang an	2000				1.040 m.	and the second second second second	-31 7			
	n 20 MHz	Snat						844 MHz	-61.7			
2.000000 MHz	p 100 ms	#Sweep		Hz	BW 330 H	#V		W 110 KHz				
<u>Auto</u> Ma		dBm	23.8	ower	Total P			upied Bandw	Occ			
Freq Offse 0 H		99.00 %			OBW P	167 kHz	8,9400 MH Transmit Freq Error -14.467 kH					
		00 dB	-26.		x dB	48 MHz	ę	Bandwidth	x dB			

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### **D.4 Band Edge**

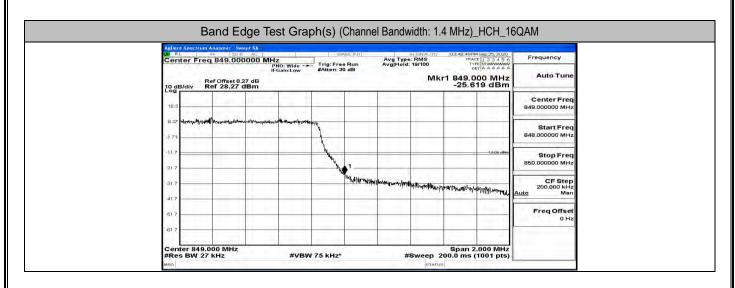
Cent		Analyzer 5 81- 50 q 824.00	0000 MH	łz PNO; Wide →	and Carlot Carlot	e Run	Avg Type Avg[Hold:	RMS	03:48:20 PM TRACI TVP	Sep 25, 2020 1 2 3 4 5 6 Minteriore T A A A A A A	Frequency
10 dB/	div F	tef Offset 8 tef 28.05	.05 dB	FGain:Low	#Atten: 3	0 dB		Mkr	1 823.9		Auto Tune
18 1	-								-		Center Freq 824.000000 MHz
8.05 -1.95						1	any vocation of the	alangga an talay it ag	Decementer 1980er	toriyaya wakangkerangk	Start Freq 823.000000 MHz
-12.0	_					2.00				-13,00 dBm	Stop Freq 825.000000 MHz
-32.0	and the second second second	W	Northwomena	n, Allende Veren Veren van de service de serv	and the second	M					CF Step 200.000 kHz Auto Man
-42.0 -			-								Freq Offset 0 Hz
-62.0 -											

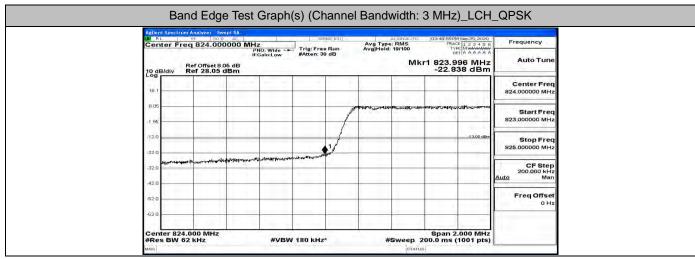


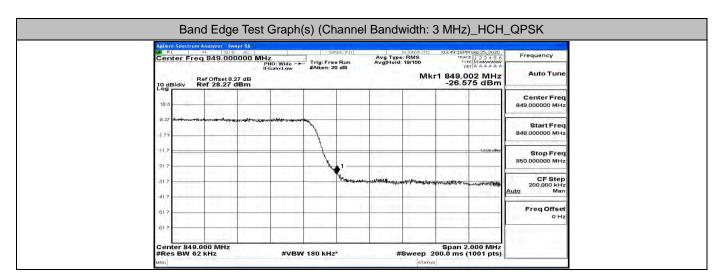


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Report No.: LCS200730059AEE

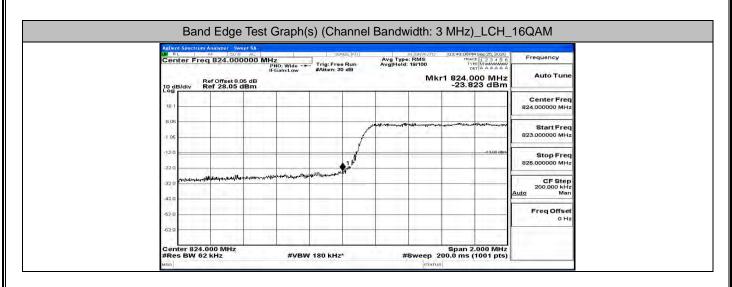


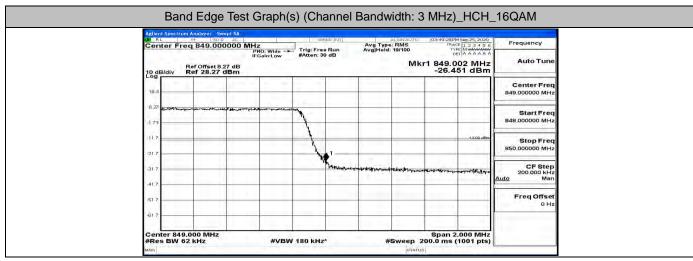




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Report No.: LCS200730059AEE

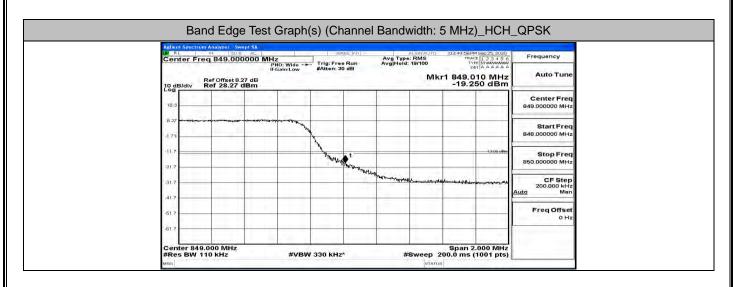


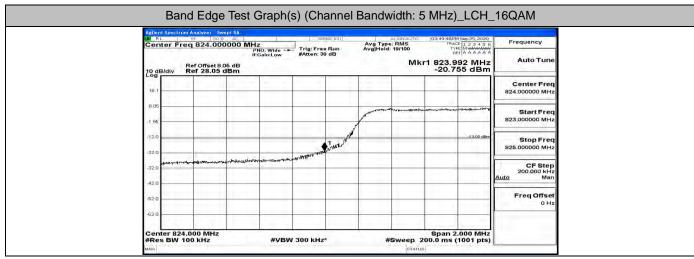


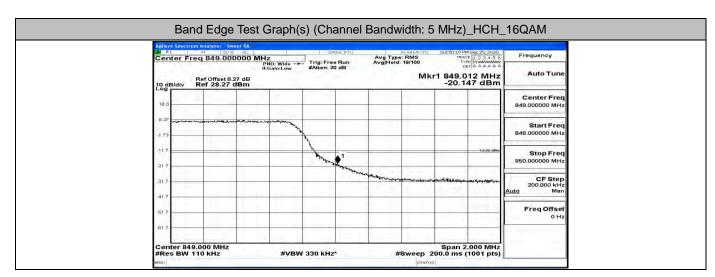
NW R	L	Analyzer - S	9 Ar		591	use:INT]		ALIGNAUTO	03:49:37 PM Sep 25, 2020	Frequency
Cen	ter Fre	q 824.00	00000 MH	NO: Wide	Trig: Free	Run	Avg Typ Avg Hold	: 19/100	TRACE 1 2 3 4 5 6 TYPE MIMMMMM DET A A A A A A	Frequency
10 di	B/div	tef Offset 8 tef 28.05	.05 dB	Gain:Low	#Atten: 30	U alb		Mkr	1 823.994 MHz -18.085 dBm	Auto Tune
18 1		-	11							Center Freq 824.000000 MHz
8 05							A Real Providence	Villimenning for the most	and the second second second	Start Freq
-1.95						. 1	1		-1 3.00 eller	823.000000 MHz
-22.0			anan,xuralurletrar	- sulla varmati	when and any office	- ary it				Stop Freq 825.000000 MHz
-32.0	ang									CF Step 200.000 kHz Auto Man
-62.0										Freq Offset 0 Hz
-62.0		-				-				

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Report No.: LCS200730059AEE







Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK

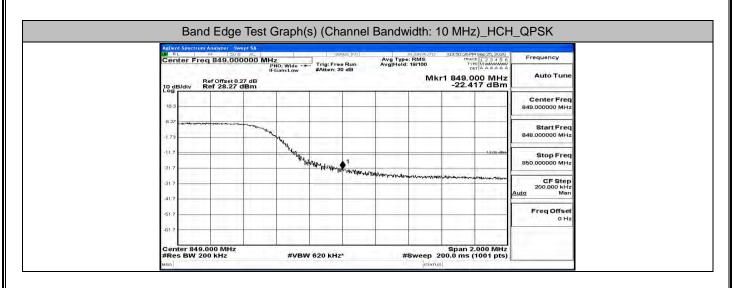
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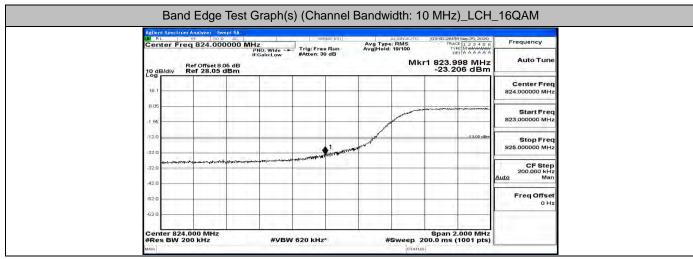
Report No.: LCS200730059AEE

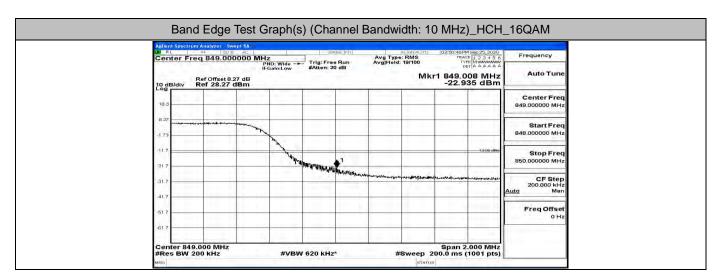
	RF /50			SENSE IN	A LUN TURN	LIGNAUTO 0	3:50:17 PM Sep 25, 2020	Frequency
Center F	-req 824.00	00000 MHz PNO: IFGair		Free Run en: 30 dB	Avg Type: Avg Hold:	19/100	TYPE MUMMMA DET A A A A A A	
10 dB/div	Ref Offset 8 Ref 28.05	8.05 dB 5 dBm		· Allowed Bard		Mkr1	824.000 MHz -21.639 dBm	Auto Tune
18.1	1 11 11	1011						Center Freq 824.000000 MHz
8 05						and the second s	<u></u>	Start Freq 823.000000 MHz
-12.0				1	- And		-1 3,00 clim	Stop Freq
-22.0 Napatras		*****	www.warners.	where the stand in				825.000000 MHz
-32.0								CF Step 200.000 kHz Auto Man
-62.0							1.000	Freq Offset
-62 0				_		-		
Center 8	24.000 MHz / 200 kHz		#VBW 620	kHz*	#5	sween 200	Span 2.000 MHz 0 ms (1001 pts)	

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Report No.: LCS200730059AEE



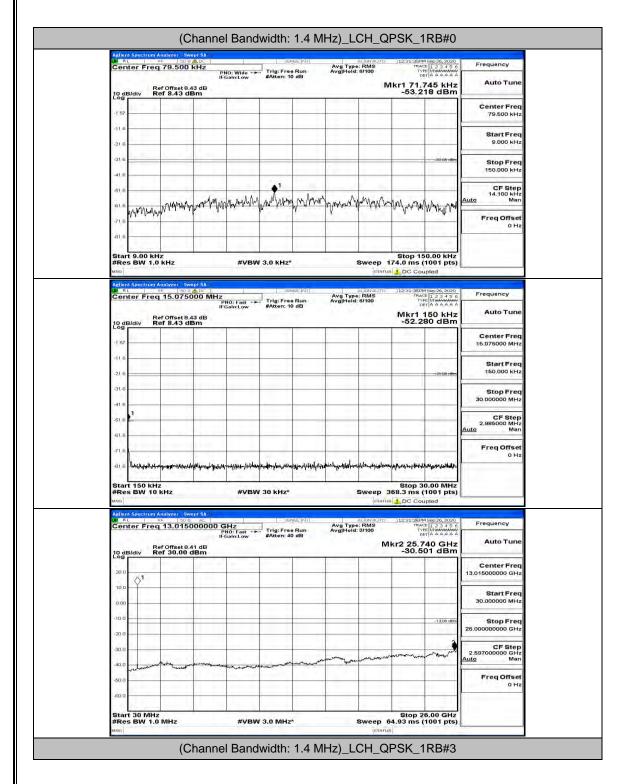




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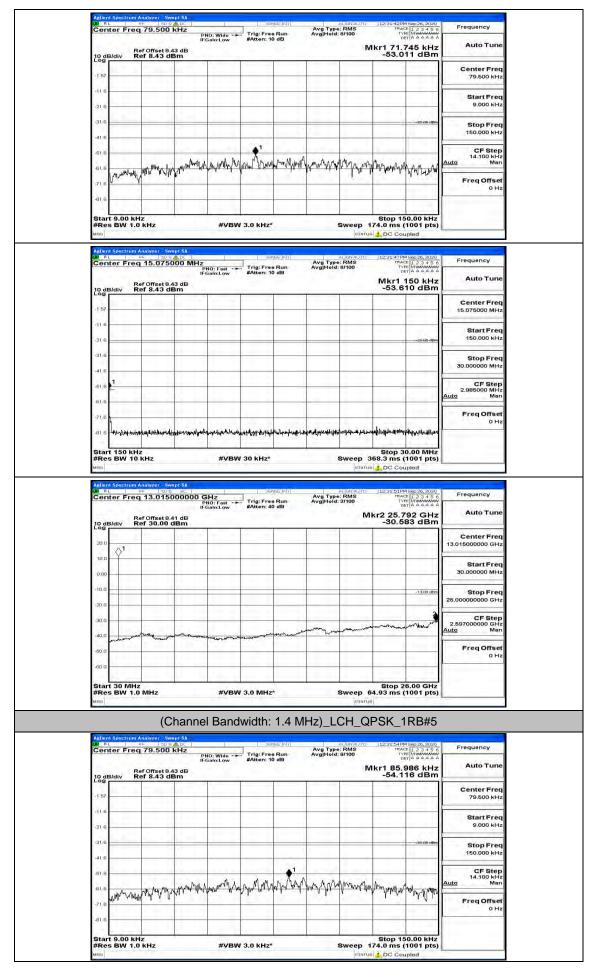
# **D.5 Conducted Spurious Emission**

# Channel Bandwidth: 1.4 MHz



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Report No.: LCS200730059AEE



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Center Freq 15.07500	5A 5C Servas: [A] 5C Servas:	ALIGNAUTC Avg Type: RMS Avg Hold: 8/100	TRACE 123456 TYPE MINAMANA DET A A A A A A	Frequency
10 dB/div Ref 8.43 dBn	dB		Mkr1 150 kHz -54.606 dBm	Auto Tune
-1 57				Center Freq 15.075000 MHz
-21.6			- 25.00 dBm	Start Freq 150.000 kHz
-31.6				Stop Freq 30.000000 MHz
-51.6 -				CF Step 2.985000 MHz Auto Man
-71,6				Freq Offset 0 Hz
Start 150 kHz #Res BW 10 kHz Milent Spectrum Analyzer - Swept	#VBW 30 kHz*	STAT	Stop 30.00 MHz 368.3 ms (1001 pts)	
KL RF SUQ		al ical al ITC		
Center Freq 13.01500	PNO: Fast Ing. Free Run	Avg Type: RMS	12:32:03PM Sep 26, 2020	Frequency
Ref Offset 8.41	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 3/100	Type Michael 1 2 3 4 5 6 Type Michael 2 3 4 5 6 Opt A A A A A A Opt A	1265 (2016)
Ref Offset 8.41	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 3/100	Det A A A A A A	1265 (2016)
10 dB/div Ref Offset 8.41 offs	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 3/100	Det A A A A A A	Auto Tune Center Freq
10 dB/div Ref 30.00 dB 20 0 00 00 00 00 00 00 00 00 00 00 00 00	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 3/100	Det A A A A A A	Auto Tune Center Freq 13.015000000 GHz Start Freq
Ref Offset 8.41 10 dB/div Ref 30.00 dB 20 0 10 0 10 0 -10 0 -0 00 -0 0 -0 0 -	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 3/100	Vkr2 25.636 GHz -30.083 dBm	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq
Ref Orfset 8.41 10 dB/div Ref 30.00 dB 20 0 10 0 10 0 -10 0 20 0 -10 0 -20 0 -20 0 -10 0 -20 0 -	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS Avg Hold: 3/100	Vkr2 25.636 GHz -30.083 dBm	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz 2.597000000 GHz
10 dB/div  Ref Offset 8.41    10 dB/div  Ref 30.00 dB    20 0	HO Fost - Hu - H	Avg Type: RMS AvgHold: 3/100	Mkr2 25.636 GHz -30.083 dBm	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz 2.55700000 GHz Auto Man
Bef Offset 8.41/  Ref Offset 8.41/    200	PNO: Fast Thg. Free Run IFGain:Low #Atten: 40 dB	Avg Type: RMS AvgHold: 3/100	Mike 2 25.636 GHz -30.083 dBm -1300	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz 2.55700000 GHz Auto Man
Ref Offset 8.41 1 10 dB/div Ref 30.00 dB 30 0 10 0 10 10 0 10 0 1	HO Fost - Hu - H	Avg Type: RMS AvgHold: 3/100	Mike 2 25.636 GHz -30.083 dBm -1300	Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz 2.55700000 GHz Auto Man

Ref Offset 8.43 dB Ref 8.43 dBm

prost Hendrey war who war

www

#VBW 3.0 kHz\*

10 dB/d

-15 ă,

-21 -31.6

410

61

61.

.71 -61

Start 9.00 kHz #Res BW 1.0 kHz

anon with the second the second the second the second

Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

Center Freq 79.500 kHz

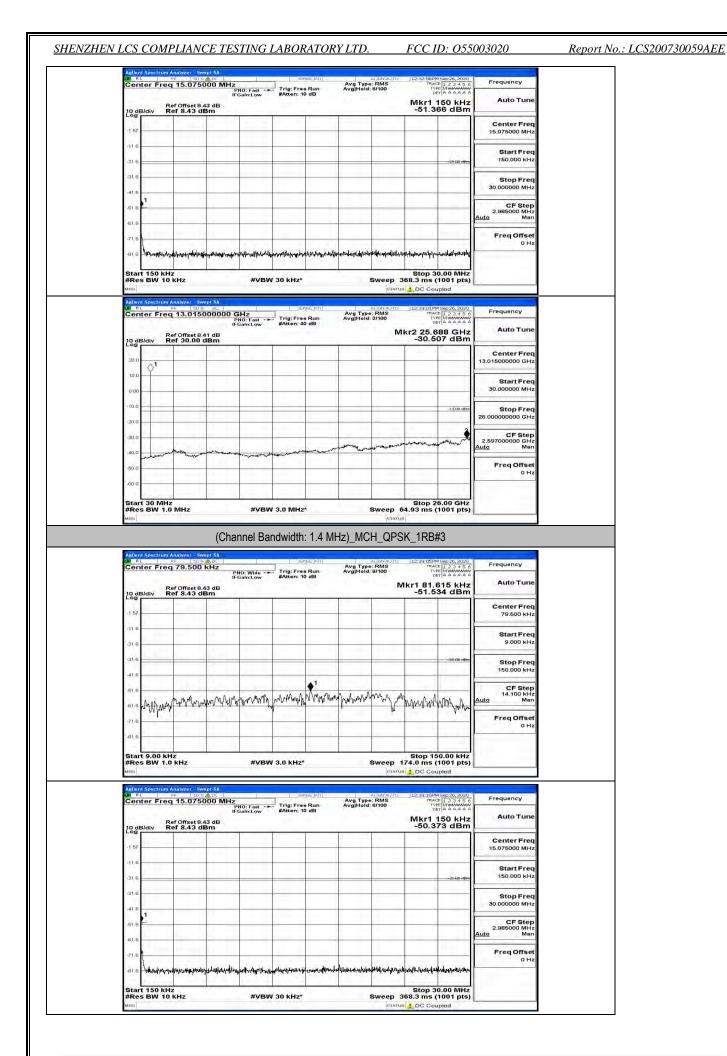
Start Freq 9.000 kHz

Stop Fred 150.000 kHz

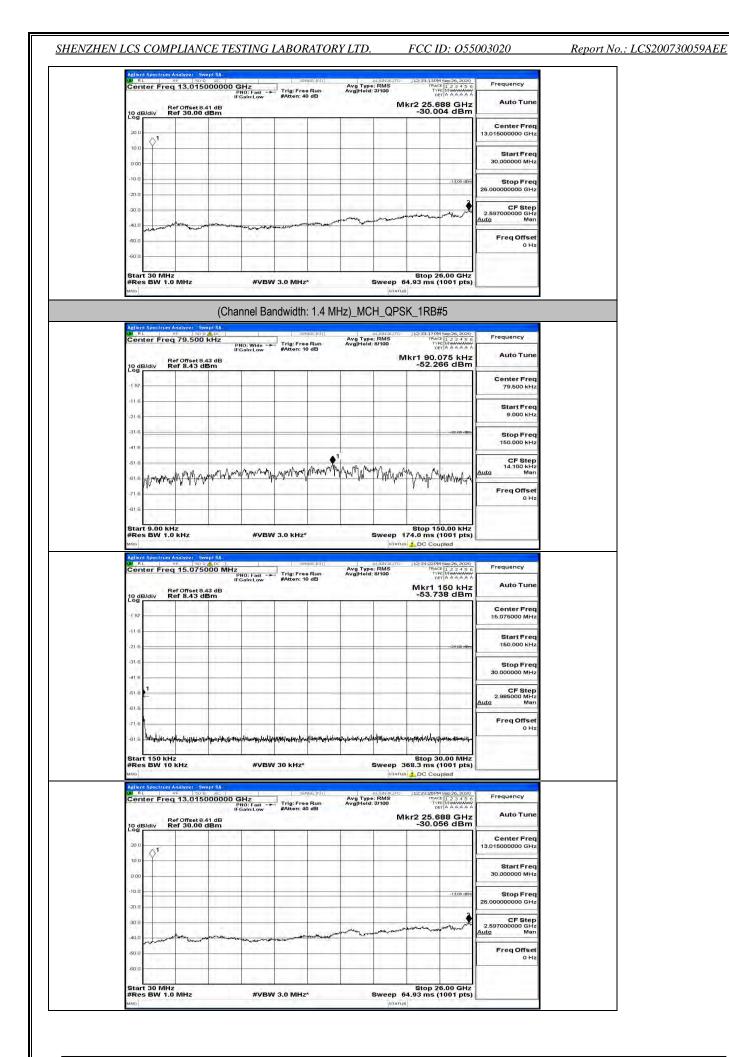
CF Step 14.100 kHz Man

Freq Offset 0 Ha

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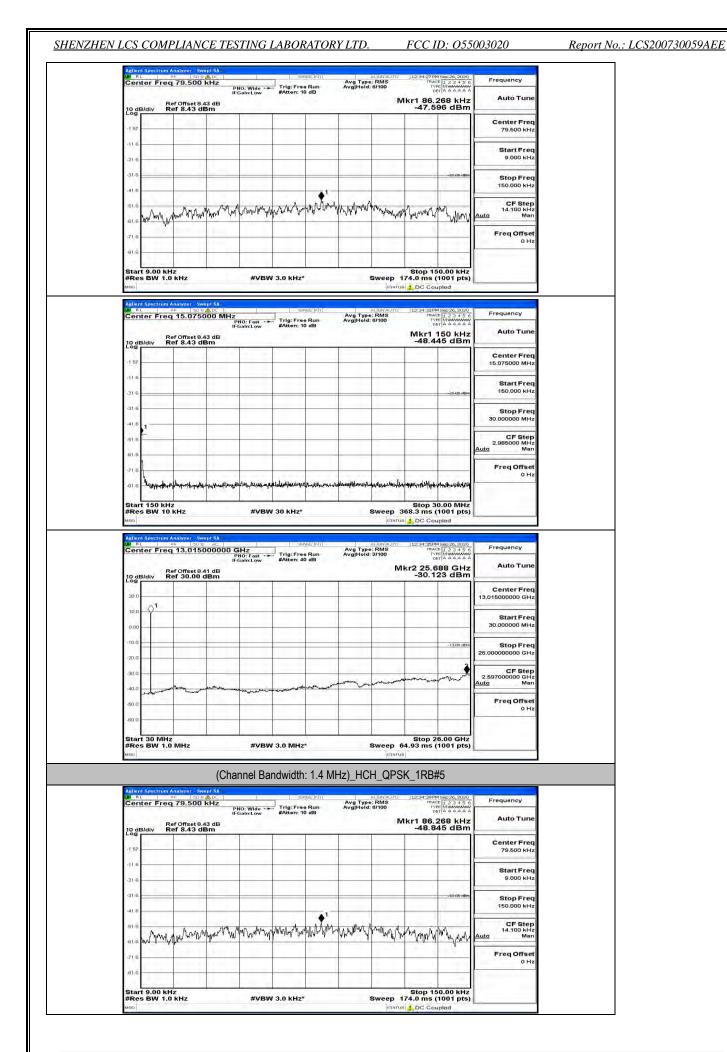


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Report No.: LCS200730059AEE

Aglient Spectrum Analyzer - Swer Will RL 94 50 9 0 Center Freq 79.500 k	Hz I	ig: Free Run	Avg Type: RMS Avg Hold: 9/100	JTO ]12:34:15.PM TRAC	Sep 26, 2020 1 2 3 4 5 6 Mmmmm A A A A A	Frequency
Ref Offset 8.43 10 dB/div Ref 8.43 dB	IFGain:Low #	ng: Free Kun Atten: 10 dB	Avginola: 9/100	Mkr1 91.6		Auto Tune
-1 57						Center Freq 79.500 kHz
-21.6				-		Start Freq 9.000 kHz
-31.6		_				Stop Freq 150.000 kHz
-41.6 -61.6	www.www.mhr	www.www	homorrow	MMM horas	Ma . IN M.	CF Step 14.100 kHz Auto Man
-81.6	w		F	LA Ana w.	" "Jullooth	Auto Man Freq Offset 0 Hz
-81.6				-		UHZ
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.	0 KHz*		Stop 15 p 174.0 ms (*		
Aglient Spectrum Analyzer Swep W RL RF 2000 Center Freq 15.07500	DC L	SENSE:INT	AUGNAU Avg Type: RMS Avg Hold: 8/100	JTO ]12:34:20PM TRAC	Sep 26, 2020	Frequency
Ref Offset 8.43	PNO: Fast I IFGain:Low #	rig: Free Run Atten: 10 dB	Avg Hold: 8/100	Mkr1 1	50 kHz	Auto Tune
10 dB/div Ref 8.43 dB	m			-45.00		Center Freq 15.075000 MHz
-21.6					-25-00 dBm	Start Freq 150.000 kHz
-31.6				-		Stop Freq 30.000000 MHz
-416 -516				-		CF Step 2.985000 MHz
-51.6				6		Auto Man Freq Offset
	in which the intervant is so that the state	lothingle.com.tangayartel.tanglari	haliter special second	perturbation and the property	apply and	0 Hz
Start 150 kHz #Res BW 10 kHz	#VBW 30	kHz*		Stop 30 p 368.3 ms (7		
Aglient Spectrum Analyzer Swep W RL RF 50 9 Center Freq 13.01500	AL CHA	SENSE:INT	ALIGNAL Avg Type: RMS	12-34-23 PM	Sen 26, 2020	Frequency
Ref Offset 8.41	PNO: Fast I IFGain:Low #	rig: Free Run Atten: 40 dB	Avg Hold: 3/100	Mkr2 25.6	88 GHz 7 dBm	Auto Tune
20.0						Center Freq 13.015000000 GHz
10.0						Start Freq 30.000000 MHz
-10.0					-13,00 dbin	Stop Freq 26.00000000 GHz
-20.0					2	CF Step 2.59700000 GHz
-40.0	where an an an and she was		warding warden and	water	- vivita	Auto Man Freq Offset
-60.0						0 Hz
		and the second sec	1		Constraints of	

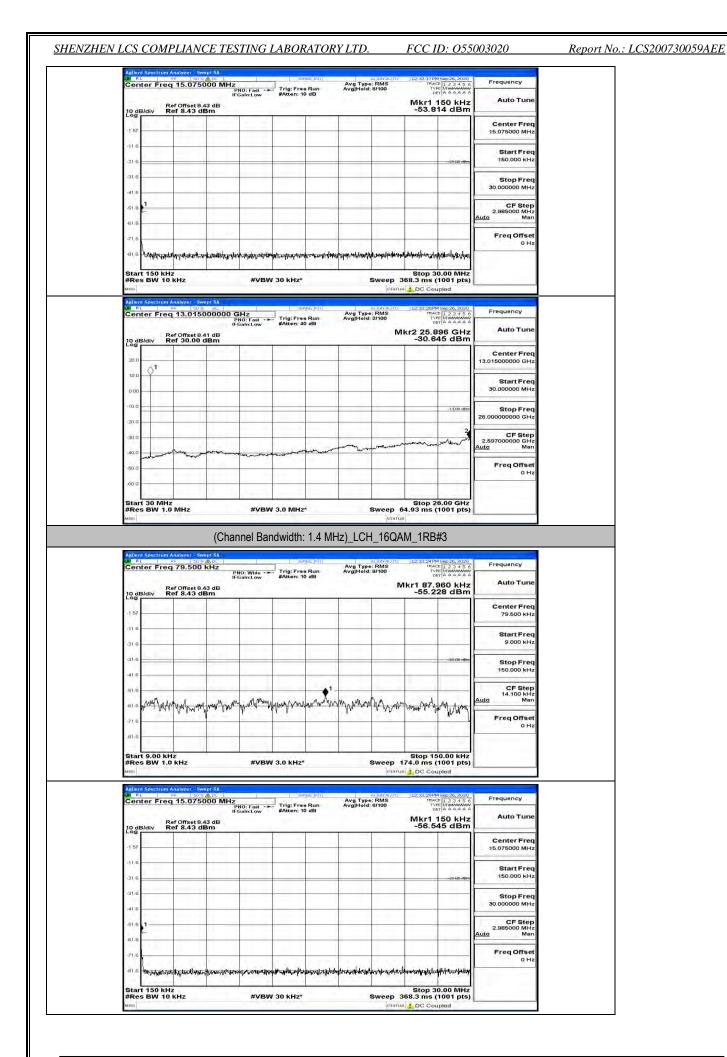
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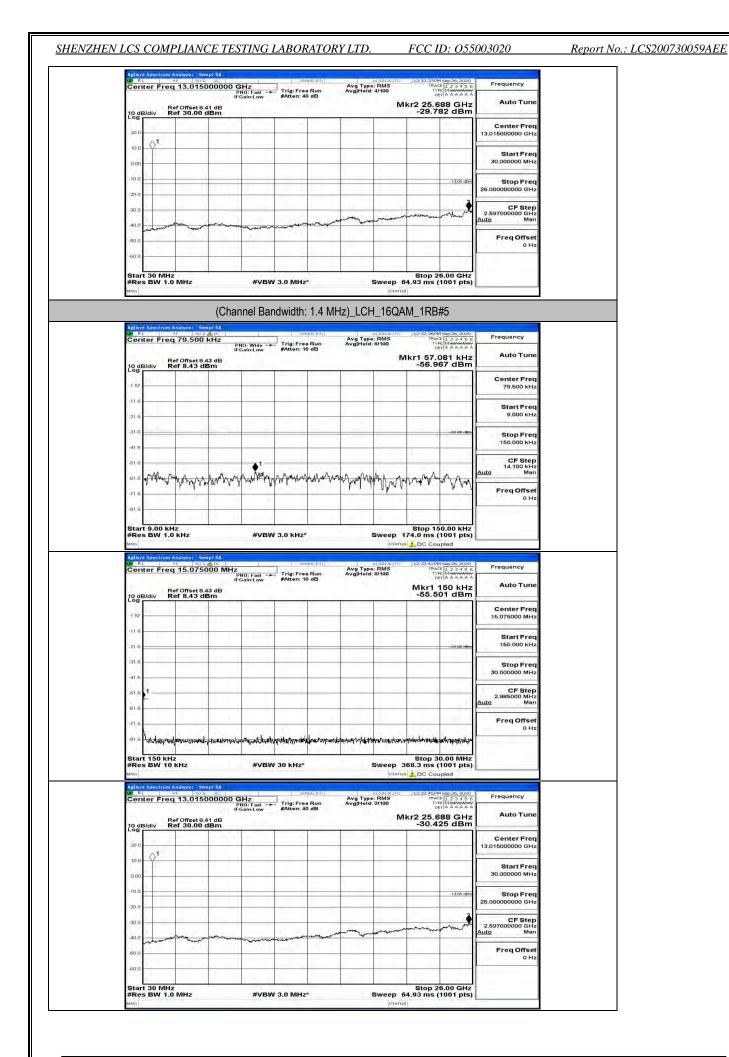
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Frequency	12:34:44 PM Sep 26, 2020	ALIGNAUTO	SENSE INT	50 9 A DC	RE-	RL
Auto Tune	Mkr1 150 kHz	Avg Type: RMS Avg Hold: 8/100	Trig: Free Run #Atten: 10 dB	75000 MHz PNO: Fast → IFGain:Low		Center
	-50.294 dBm	1		3 dBm	liv Ref 8.4	10 dB/div
Center Fred 15.075000 MH:						-1 57
Start Fred 150.000 kHz	-28-80 dBm					-11.6
Stop Freq 30.000000 MHz						-31.6
CF Step 2.985000 MHz Auto Man						41.6 .61.6
		-				61.6
Freq Offset 0 Hz	라네네바바가네네스 Anarow Stop 30.00 MHz 368.3 ms (1001 pts) 때 쇼 DC Coupled	Sweep 3	4 <sup>411</sup> 12 <sup>11</sup> 112 <sup>11</sup> 11112 <sup>11</sup> 112 <sup>111</sup> 112 <sup>111</sup> 112 <sup>111</sup> 112 <sup>1111111</sup> 112 <sup>11111111</sup>	hoph-hondron-tonal-un-f-holpdathon #VBV	<sup>4</sup> h.44/h.44 150 кHz 3W 10 кHz	Start 15
	Stop 30.00 MHz 368.3 ms (1001 pts) Coupled 12:34-48PM sep 26,2020 12:34-48PM sep 26,2020 12:34-48PM sep 26,2020	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100		wapt 5A 2000 act 15000000 GHz PN0: Fast FCalinLow	150 kHz 3W 10 kHz pectrum Analyze PF r Freq 13.0	-81.6 WK Start 15 #Res BI #Ro #Ro #Ro Action1 Spe # RL
0 Ha	Stop 30.00 MHz 368.3 ms (1001 pts)	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100	30 kHz*	#VBV	150 kHz BW 10 kHz Pectrum Analyze 9F r Freq 13.0 Ref Offs	-81.6 Start 15 #Res Bi #Ro Actient Spe # RL Center
0 Ha	Stop 30.00 MHz 368.3 ms (1001 pts)	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100	30 kHz*	#VBV 5000 500 15000000 GH2 PH0 Fast - IFSainLow +8 41 dB	150 kHz BW 10 kHz Pectrum Analyze 9F r Freq 13.0 Ref Offs	-81.6 WK Start 15 #Res BI #Ro #Ro #Ro Action1 Spe # RL
0 Hz Frequency Auto Tune Center Freq	Stop 30.00 MHz 368.3 ms (1001 pts)	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100	30 kHz*	#VBV 5000 500 15000000 GH2 PH0 Fast - IFSainLow +8 41 dB	150 kHz BW 10 kHz Pectrum Analyze 9F r Freq 13.0 Ref Offs	-B1.6 Start 15 #Res B1 #Ro Ablent Spe #RL Center
0 H2 Frequency Auto Tune Center Freq 13.01500000 GH2 Start Freq	Stop 30.00 MHz 368.3 ms (1001 pts)	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100	30 kHz*	#VBV 5000 500 15000000 GH2 PH0 Fast - IFSainLow +8 41 dB	150 kHz BW 10 kHz Pectrum Analyze 9F r Freq 13.0 Ref Offs	-81.6 4 Start 15 #Res Bl #Res Bl #R
Frequency Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 GHz 26.00000000 GHz 25.00000000 GHz	Stop 30.00 MHz 368.3 ms (1001 pts) DC Coupled	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100	30 kHz*	#VBV 5000 500 15000000 GH2 PH0 Fast - IFSainLow +8 41 dB	150 kHz BW 10 kHz Pectrum Analyze 9F r Freq 13.0 Ref Offs	-81.6 - 44 Start 15 #Res Bl ##0 Adlent See # RL Center 10 dB/div 20 0 10 0
Frequency Auto Tune Center Freq 13.01500000 GHz Start Freq 30.000000 GHz 25.00000000 GHz 25.00000000 GHz	Stop 30.00 MHz 388.3 ms (1001 pts) C Coupled	Sweep 3 jetatus autoriauro Avg Type: RMS Avg[Hold: 3/100	30 kHz*	#VBV 5000 500 15000000 GH2 PH0 Fast - IFSainLow +8 41 dB	150 kHz BW 10 kHz Pectrum Analyze 9F r Freq 13.0 Ref Offs	-81.6 4 Start 15 #Res Bi #Ro Acilent See 300 Conter 10.0 dB/div -10.0 4 -10.0 4 -20.0 4

Frequency	M Sep 26, 2020 T 1 2 3 4 5 6 PE MINAWAWA ET A A A A A A	12:32:12 PM TRAC	RMS	Avg Type Avg Hold:	USE:INT]	Carge 13 11	1	kHz	79.500		Aellent WRL Cent
Auto Tune	894 kHz 77 dBm	1kr1 27.8		Avginoid:	dB	#Atten: 10	PNO: Wide -+ IFGain:Low	3 dB	ef Offset 8.4 ef 8.43 de		10 dB
Center Freq 79.500 kHz								1			-1 57 -
Start Freq 9.000 kHz			-								-116-
Stop Freq 150.000 kHz	-33:00 dBm										-31.6
CF Step 14.100 kHz Auto Man		an art	W. A. MA	man	MANWAAA	a work of	May and	M.M. W	1 m. Aa. mA	man	-61.6 -61.6
Freq Offset 0 Hz	WYNM	alkandillata U	an Maria	· • • • •	· y · ·	49° - 40	1.04.0	Va wer	W. INK. 1	<u>а тф.</u>	71.6
											-01.6

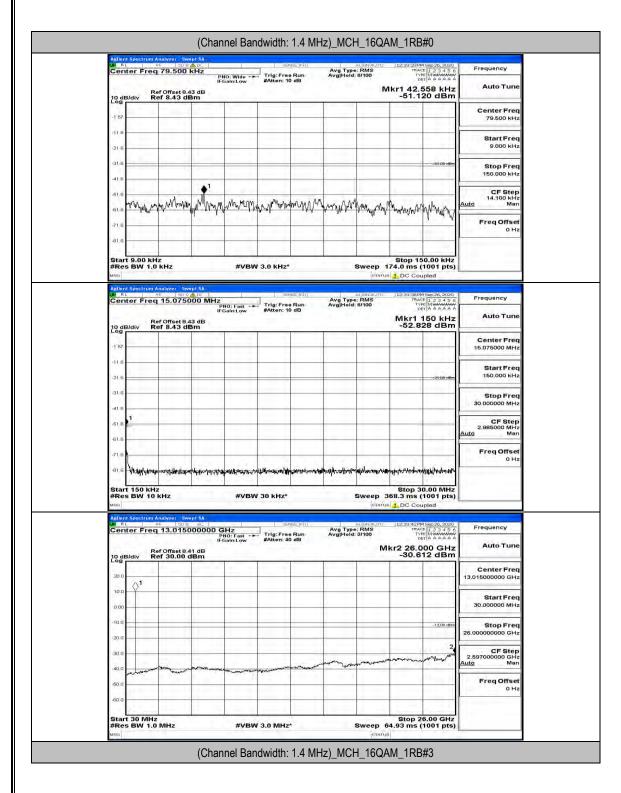


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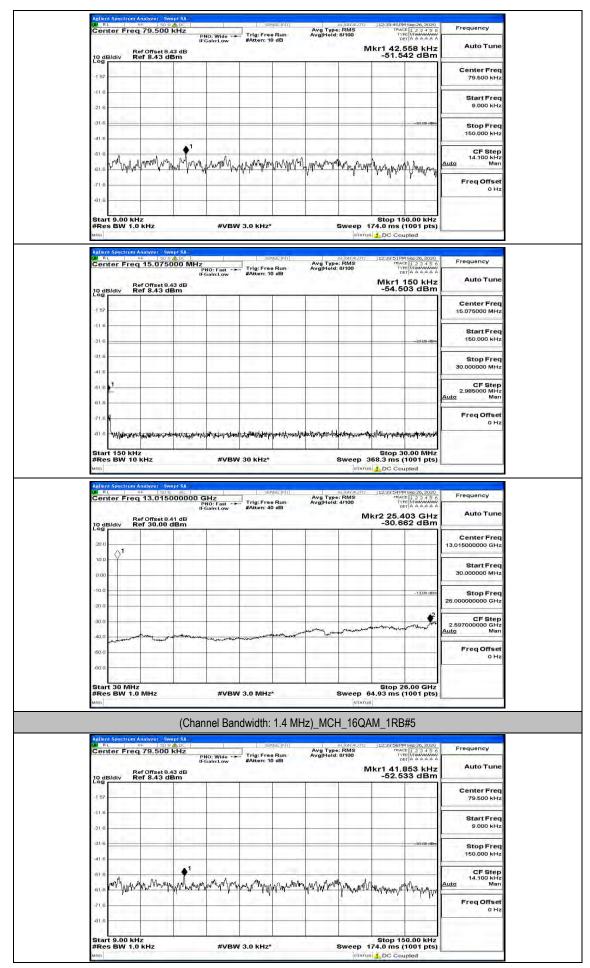
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Report No.: LCS200730059AEE

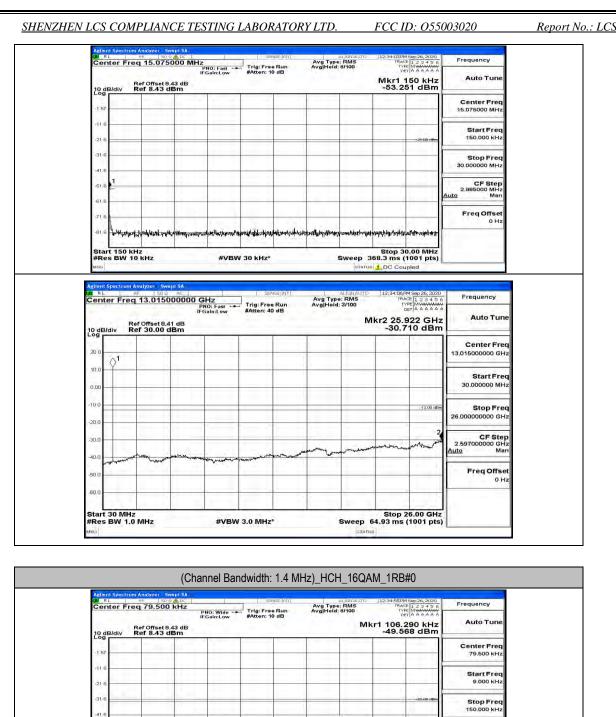


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Report No.: LCS200730059AEE



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many

#VBW 3.0 KHz\*

-61

61

71 -61

Start 9.00 kHz #Res BW 1.0 kHz

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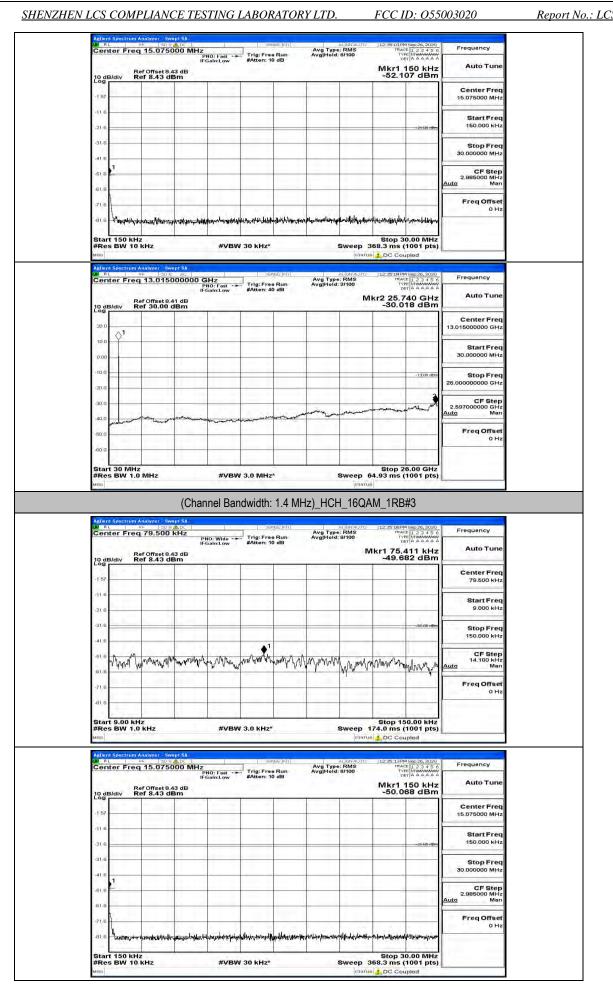
when how many how

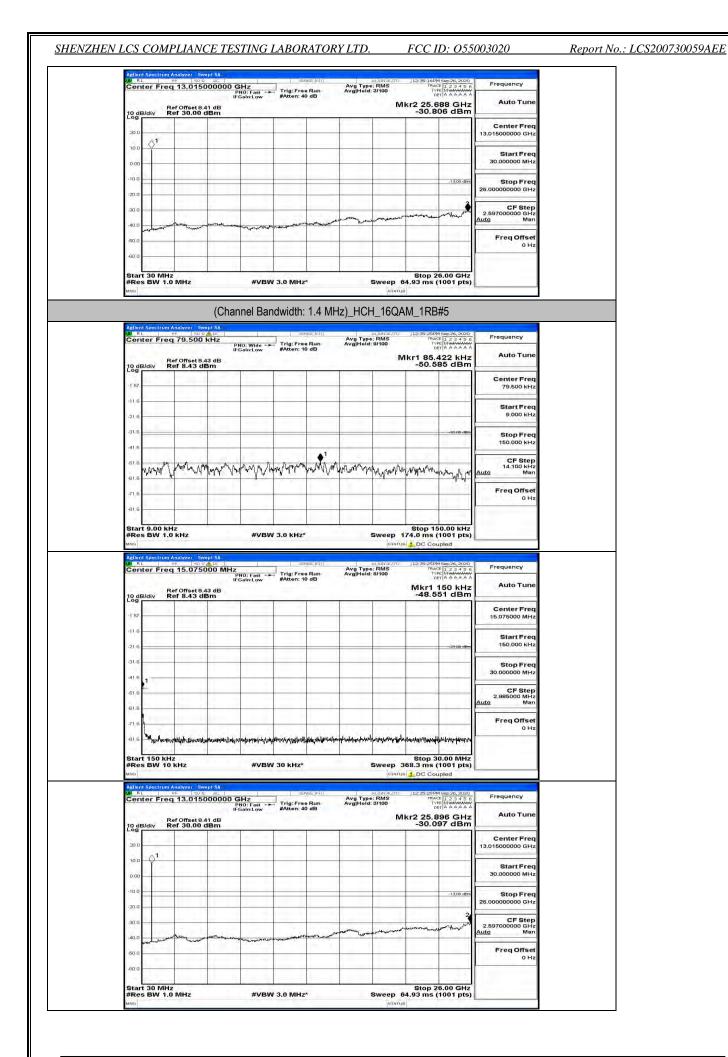
Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

TUS DC Coupled

CF Step

Freq Offset 0 Hz





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# Channel Bandwidth: 3 MHz

LW RL	pectrum Anal	50 9 A	DC	1	1 39	use:Iri)	Aug 7		12:35:38 PM	Sap 26, 2020	Frequency
Cente	er Freq 7	9.500 KI	PN	O: Wide -+ ain:Low	#Atten: 10	e Run 0 dB	Avg Type Avg Hold:			123456 Minimu	
10 dB/d	Ref C	offset 8.43 8.43 dBr	dB n		-	Ś.,		м	kr1 90.6 -51.78	39 kHz 2 dBm	Auto Tune
-1 57	12.1.2			1							Center Freq 79.500 kHz
-116-											
-21.6			1								Start Freq 9.000 kHz
-31.6										-33:00-dBm	Stop Freq
-41.6			1.11	1			_				150.000 kHz
-61.6						• <sup>1</sup>					CF Step 14.100 kHz
-61.6 Af	What has	NHUM MANY	wy Adda	manin	memorph	www	Horman	Why when	Monorally	MAMAR	<u>Auto</u> Man
-71.6.	1.0 a shak		N. A.	Asses			-	250	100 - 100	vų v	Freq Offset 0 Hz
-81.6		_				_		_			
Start 9	9.00 kHz		1	-	0.005	10000 B			Stop 15	0.00 kHz	
#Res E	BW 1.0 KI	Hz		#VBW	3.0 kHz*				74.0 ms (1		
Agilent S	pectrum Anal	lyzer Swept	SA T		1 (20)	use INT		ALIGN AUTO	12:35:44 PM	Sec 26, 2020	
Cente	r Freq 1	5.07500	O MHz	IO: Fast -+-	CARD TO THE	e Run	Avg Type Avg Hold:	8/100	TRACE TYPE DET	123456 MMMMMMM AAAAAA	Frequency
	Ref (	offset 8.43 8.43 dBr							Mkr1 1		Auto Tune
1.21		0.40 001		-				-			Center Freq
-1 57											15.075000 MHz
-11-6			1					-		7.01	Start Freq
-21-6										-28 00 dBm	150.000 kHz
-31.6											Stop Freq 30.000000 MHz
-41.6					-			-			CF Step
·61.6											2.985000 MHz Auto Man
-61.6											Freq Offset
-71.6	. An eliter.	مطالب الدائم.	um ca s ide	an and a constant	Lands Million	List as india		و المعالية الم	and in far from	adramatical in	0 Hz
-81.6 <b>-}+</b>	W& OLD WARNA	rto-triormosurteally	and work here	akoran kataran	م معتل موركو م الدر	erestanen et. da	esesidinded daa	Ne red for a long of the sec	ALL BOARD AND AND AND AND AND AND AND AND AND AN	del a tradestaria	1
	150 kHz BW 10 kH	łz		#VBW	30 kHz*	_			68.3 ms (1		
MSG Anthrop S	pectrum Ana			_	_			STATUS	LDC Cou	oled	
LW RL	er Freq 1	250 Q	AL	Hz	Str Trig: Free	NSE:INT	Avg Type Avg Hold:	RMS	12:35:47 PM TRACE	Sep 25, 2020 1 2 3 4 5 6 Minternet A A A A A A	Frequency
		Offset 8.41	17.0	HZ IO: Fast iain:Low	#Atten: 40	0 dB	Avginoid:		kr2 25.6		Auto Tune
10 dB/d	liv Ref	30.00 dE	3m	_		_			-29.97	5 dBm	
20.0											Center Freq 13.015000000 GHz
10.0	<b>◊</b> <sup>1</sup>										Start Freq
0.00											30.000000 MHz
-10.0				_				_		-1 3,00 dbin	Stop Freq
-20.0	-			-				_			26.000000000 GHz
-30.0									un your	- hand	CF Step 2.597000000 GHz
-40.0	heren	- three mare	dame		Stream of the grant of the state	man	when the second	A galfing and a second process			<u>Auto</u> Man
-50.0							-				Freq Offset 0 Hz
-60.0				_			-				
	-		1	-	100			á i	Stop 26	.00 GHz	) - · · · · · · · · · · · · · · · · · ·
Start 3	30 MHz BW 1.0 M				3.0 MHz				4.93 ms (1		

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