Appendix E: Test Data for E-UTRA Band 4

Product Name: 5 inch 4G Smart Phone Trade Mark: LOGIC, iSWAG, UNONU Test Model: L50T FCC ID: 055503719

Environmental Conditions

Temperature:	22.6 ° C	
Relative Humidity:	53.6%	
ATM Pressure:	100.0 kPa	
Test Engineer:	Wang.Chuang	
Supervised by:	TOM.LIU	

E.1: Effective (Isotropic) Radiated Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

	Channel Bandwidth: 1.4 MHz										
Modulati	Channel	RB Conf	iguration	Average Power [dBm]	E.i.r.p [dBm]	Verdict					
on	Channel	Size	Offset	Average Fower [ubili]	Е.і.і.р [авііі]	veruict					
		1	0	22.22	22.86	PASS					
		1	3	22.26	22.90	PASS					
		1	5	22.14	22.78	PASS					
	LCH	3	0	22.28	22.92	PASS					
		3	2	22.28	22.92	PASS					
		3	3	22.22	22.86	PASS					
		6	0	21.24	21.88	PASS					
		1	0	21.28	21.92	PASS					
QPSK		1	3	21.42	22.06	PASS					
QFON		1	5	21.36	22.00	PASS					
	MCH	3	0	21.40	22.04	PASS					
		3	2	21.37	22.01	PASS					
		3	3	21.42	22.06	PASS					
		6	0	20.33	20.97	PASS					
		1	0	21.71	22.35	PASS					
	нсн	1	3	21.66	22.30	PASS					
	псн	1	5	21.61	22.25	PASS					
		3	0	21.71	22.35	PASS					

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<u>SHENZHEN LCS COMP</u>	LIANCE TES	STING LABO	RATORY LTI	D. FCC ID: 05550.	3719 Report No	::LCS190923018AE			
		3	2	21.71	22.35	PASS			
		3	3	21.70	22.34	PASS			
		6	0	20.64	21.28	PASS			
		1	0	21.51	22.15	PASS			
		1	3	21.67	22.31	PASS			
		1	5	21.44	22.08	PASS			
	LCH	3	0	21.46	22.10	PASS			
		3	2	21.45	22.09	PASS			
		3	3	21.42	22.06	PASS			
		6	0	20.19	20.83	PASS			
	МСН	1	0	20.67	21.31	PASS			
		МСН	1	3	20.87	21.51	PASS		
					1	5	20.76	21.40	PASS
16QAM			3	0	20.39	21.03	PASS		
			3	2	20.46	21.10	PASS		
		3	3	20.50	21.14	PASS			
		6	0	19.29	19.93	PASS			
		1	0	20.96	21.60	PASS			
		1	3	21.10	21.74	PASS			
		1	5	20.84	21.48	PASS			
	HCH	3	0	20.82	21.46	PASS			
		3	2	20.82	21.46	PASS			
		3	3	20.81	21.45	PASS			
		6	0	19.77	20.41	PASS			

Channel Bandwidth: 3 MHz

	Channel Bandwidth: 3 MHz										
Modulation Channel	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict					
		Size	Offset								
		1	0	22.11	22.75	PASS					
		1	7	22.35	22.99	PASS					
		1	14	22.00	22.64	PASS					
LCH	LCH	8	0	21.17	21.81	PASS					
		8	4	21.14	21.78	PASS					
		8	7	21.07	21.71	PASS					
QPSK		15	0	21.10	21.74	PASS					
		1	0	21.17	21.81	PASS					
		1	7	21.51	22.15	PASS					
МС	МСЦ	1	14	21.40	22.04	PASS					
	IVICH	8	0	20.27	20.91	PASS					
		8	4	20.37	21.01	PASS					
		8	7	20.38	21.02	PASS					

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Instrume Instrume	<u> </u>
I 7 21.82 22.46 PASS 1 14 21.54 22.18 PASS 8 0 20.65 21.29 PASS 8 4 20.67 21.31 PASS 8 7 20.54 21.18 PASS 15 0 20.60 21.24 PASS 14 0 21.53 22.17 PASS 1 17 21.65 22.29 PASS 1 14 21.36 22.00 PASS 1 14 20.29 20.93 PASS 8 7 20.10 20.72 PASS 15 0 20.08 20.72 PASS 15 0 20.83 21.47 PASS 1	
I 14 21.54 22.18 PASS 8 0 20.65 21.29 PASS 8 4 20.67 21.31 PASS 8 7 20.54 21.18 PASS 15 0 20.60 21.24 PASS 11 7 21.65 22.29 PASS 11 14 21.36 22.00 PASS 11 14 21.36 22.00 PASS 11 14 21.36 22.00 PASS 11 14 20.29 20.93 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.83 21.47 PASS 11	
HCH 8 0 20.65 21.29 PASS 8 4 20.67 21.31 PASS 8 7 20.54 21.18 PASS 15 0 20.60 21.24 PASS 15 0 20.60 21.24 PASS 1 1 0 21.53 22.17 PASS 1 1 7 21.65 22.29 PASS 1 14 21.36 22.00 PASS 1 14 21.36 22.00 PASS 1 14 20.23 20.87 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.08 20.72 PASS 1 1 0 20.54 21.18 PASS 1 1 20.68 21.32 PASS 1 14 20.68 2	
8 4 20.67 21.31 PASS 8 7 20.54 21.18 PASS 15 0 20.60 21.24 PASS 15 0 21.53 22.17 PASS 1 1 0 21.53 22.29 PASS 1 14 21.36 22.00 PASS 1 14 20.29 20.93 PASS 8 0 20.10 20.72 PASS 15 0 20.08 20.72 PASS 15 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS	
8 7 20.54 21.18 PASS 15 0 20.60 21.24 PASS 15 0 21.53 22.17 PASS 1 7 21.65 22.29 PASS 1 14 21.36 22.00 PASS 1 14 20.23 20.87 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
15 0 20.60 21.24 PASS 1 0 21.53 22.17 PASS 1 7 21.65 22.29 PASS 1 14 21.36 22.00 PASS 1 14 21.36 22.00 PASS 1 14 21.36 22.00 PASS 8 0 20.23 20.87 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.08 20.72 PASS 15 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS	
Image: height backward 1 0 21.53 22.17 PASS 1 7 21.65 22.29 PASS 1 14 21.36 22.00 PASS 8 0 20.23 20.87 PASS 8 4 20.29 20.93 PASS 8 7 20.10 20.74 PASS 15 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS	
I 7 21.65 22.29 PASS 1 14 21.36 22.00 PASS 1 14 21.36 22.00 PASS 8 0 20.23 20.87 PASS 8 4 20.29 20.93 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS	
Image: LCH Image: 1 14 21.36 22.00 PASS 8 0 20.23 20.87 PASS 8 4 20.29 20.93 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 1 14 20.68 21.32 PASS	
LCH 8 0 20.23 20.87 PASS 8 4 20.29 20.93 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 15 0 20.08 20.72 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
8 4 20.29 20.93 PASS 8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 1 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
8 7 20.10 20.74 PASS 15 0 20.08 20.72 PASS 1 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
15 0 20.08 20.72 PASS 1 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
1 0 20.54 21.18 PASS 1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
1 7 20.83 21.47 PASS 1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
1 14 20.68 21.32 PASS 16QAM MCH 8 0 19.33 19.97 PASS	
16QAM MCH 8 0 19.33 19.97 PASS	
0 4 13.43 20.09 FA33	
8 7 19.41 20.05 PASS	
15 0 19.26 19.90 PASS	
1 0 21.12 21.76 PASS	
1 7 21.29 21.93 PASS	
1 14 21.05 21.69 PASS	
HCH 8 0 19.65 20.29 PASS	
8 4 19.61 20.25 PASS	
8 7 19.54 20.18 PASS	
15 0 19.57 20.21 PASS	

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz									
Modulation	Channel	RB Conf	iguration	Average Power [dBm]	E.i.r.p [dBm]	Verdict			
Woddiation	Ondrino	Size	Offset			Vertaiot			
		1	0	22.09	22.73	PASS			
LCH	1	12	22.24	22.88	PASS				
		1	24	21.72	22.36	PASS			
	LCH	12	0	21.11	21.75	PASS			
QPSK		12	6	21.07	21.71	PASS			
1		12	13	20.89	21.53	PASS			
		25	0	21.08	21.72	PASS			
	МСЦ	1	0	21.05	21.69	PASS			
	MCH	1	12	21.47	22.11	PASS			

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SHENZHEN LCS COMPLI	ANCE TEST	ING LABOI	RATORY LTL	D. FCC ID: 05550	3719 Report N	lo.:LCS1909230	018AEG
		1	24	21.38	22.02	PASS	
		12	0	20.18	20.82	PASS	
		12	6	20.37	21.01	PASS	
		12	13	20.39	21.03	PASS	
		25	0	20.34	20.98	PASS	
		1	0	21.76	22.40	PASS	
		1	12	21.87	22.51	PASS	
		1	24	21.44	22.08	PASS	
	HCH	12	0	20.80	21.44	PASS	
		12	6	20.76	21.40	PASS	
		12	13	20.59	21.23	PASS	
		25	0	20.75	21.39	PASS	
		1	0	21.57	22.21	PASS	
		1	12	21.69	22.33	PASS	
	LCH	1	24	21.16	21.80	PASS	
		12	0	20.31	20.95	PASS	
		12	6	20.28	20.92	PASS	
		12	13	20.08	20.72	PASS	
		25	0	20.09	20.73	PASS	
		1	0	20.46	21.1	PASS	
		1	12	20.91	21.55	PASS	
		1	24	20.81	21.45	PASS	
16QAM	MCH	12	0	19.36	20.0	PASS	
		12	6	19.51	20.15	PASS	
		12	13	19.54	20.18	PASS	
		25	0	19.34	19.98	PASS	
		1	0	20.84	21.48	PASS	
		1	12	21.05	21.69	PASS	
		1	24	20.56	21.20	PASS	
	HCH	12	0	19.86	20.50	PASS	
		12	6	19.86	20.50	PASS	
		12	13	19.66	20.30	PASS	
		25	0	19.77	20.41	PASS	

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Channel Bandwidth: 10 MHz

			Channe	Bandwidth: 10 MHz		
Modulation	Channel		figuration	Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
		1	0	22.13	22.77	PASS
		1	24	21.99	22.63	PASS
		1	49	21.29	21.93	PASS
	LCH	25	0	21.08	21.72	PASS
		25	12	20.87	21.51	PASS
		25	25	20.64	21.28	PASS
		50	0	20.84	21.48	PASS
		1	0	20.92	21.56	PASS
		1	24	21.49	22.13	PASS
		1	49	21.69	22.33	PASS
QPSK	MCH	25	0	20.16	20.80	PASS
		25	12	20.39	21.03	PASS
		25	25	20.55	21.19	PASS
		50	0	20.34	20.98	PASS
		1	0	22.05	22.69	PASS
		1	24	22.02	22.66	PASS
		1	49	21.52	22.16	PASS
	HCH	25	0	21.05	21.69	PASS
		25	12	20.95	21.59	PASS
		25	25	20.75	21.39	PASS
		50	0	20.91	21.55	PASS
	1	0	21.48	22.12	PASS	
		1	24	21.30	21.94	PASS
		1	49	20.66	21.30	PASS
	LCH	25	0	20.13	20.77	PASS
		25	12	19.87	20.51	PASS
		25	25	19.65	20.29	PASS
		50	0	19.91	20.55	PASS
		1	0	20.28	20.92	PASS
		1	24	20.78	21.42	PASS
16QAM		1	49	21.03	21.67	PASS
	МСН	25	0	19.15	19.79	PASS
		25	12	19.39	20.03	PASS
		25	25	19.52	20.16	PASS
		50	0	19.37	20.01	PASS
		1	0	21.53	22.17	PASS
		1	24	21.49	22.13	PASS
	HCH	1	49	20.98	21.62	PASS
		25	0	20.12	20.76	PASS

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25	12	19.98	20.62	PASS
25	25	19.78	20.42	PASS
50	0	19.97	20.61	PASS

Channel Bandwidth: 15 MHz

			Channel	Bandwidth: 15 MHz		
Modulation	Channel	RB Cont	figuration	Average Power [dBm]	E.i.r.p [dBm]	Verdict
	Size	Offset			Voraiot	
		1	0	22.09	22.73	PASS
		1	37	21.70	22.34	PASS
		1	74	20.98	21.62	PASS
	LCH	37	0	20.88	21.52	PASS
		37	18	20.62	21.26	PASS
		37	38	20.31	20.95	PASS
		75	0	20.60	21.24	PASS
		1	0	20.84	21.48	PASS
		1	37	21.46	22.10	PASS
		1	74	21.89	22.53	PASS
QPSK	MCH	37	0	20.03	20.67	PASS
		37	18	20.40	21.04	PASS
		37	38	20.60	21.24	PASS
		75	0	20.35	20.99	PASS
		1	0	21.92	22.56	PASS
		1	37	22.22	22.86	PASS
		1	74	21.46	22.10	PASS
	НСН	37	0	21.12	21.76	PASS
		37	18	21.10	21.74	PASS
		37	38	20.83	21.47	PASS
		75	0	20.99	21.63	PASS
		1	0	21.42	22.06	PASS
		1	37	21.07	21.71	PASS
		1	74	20.35	20.99	PASS
	LCH	37	0	19.91	20.55	PASS
		37	18	19.66	20.30	PASS
		37	38	19.32	19.96	PASS
400 414		75	0	19.64	20.28	PASS
16QAM		1	0	20.19	20.83	PASS
		1	37	20.79	21.43	PASS
		1	74	21.20	21.84	PASS
	MCH	37	0	19.02	19.66	PASS
		37	18	19.36	20.00	PASS
		37	38	19.63	20.27	PASS
		75	0	19.35	19.99	PASS

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SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCC ID: 055503719	Report No.:LCS190923018AEG

		1	0	21.25	21.89	PASS
		1	37	21.61	22.25	PASS
	1	74	20.81	21.45	PASS	
	НСН	37	0	20.14	20.78	PASS
	37	18	20.08	20.72	PASS	
	37	38	19.88	20.52	PASS	
	75	0	19.98	20.62	PASS	

Channel Bandwidth: 20 MHz

			Channel	Bandwidth: 20 MHz		
Modulation	Channel	RB Conf	iguration	Average Power [dBm]	E.i.r.p [dBm]	Verdict
	Chainio	Size	Offset			Voraiot
		1	0	22.15	22.79	PASS
		1	49	21.61	22.25	PASS
		1	99	21.08	21.72	PASS
	LCH	50	0	20.78	21.42	PASS
		50	25	20.39	21.03	PASS
		50	50	20.39	21.03	PASS
		100	0	20.56	21.20	PASS
		1	0	20.99	21.63	PASS
		1	49	21.59	22.23	PASS
		1	99	22.02	22.66	PASS
QPSK	MCH	50	0	19.89	20.53	PASS
		50	25	20.43	21.07	PASS
		50	50	20.58	21.22	PASS
		100	0	20.24	20.88	PASS
		1	0	21.52	22.16	PASS
		1	49	22.34	22.98	PASS
		1	99	21.47	22.11	PASS
	HCH	50	0	21.10	21.74	PASS
		50	25	21.09	21.73	PASS
		50	50	20.89	21.53	PASS
		100	0	20.99	21.63	PASS
		1	0	21.32	21.96	PASS
		1	49	20.81	21.45	PASS
		1	99	20.30	20.94	PASS
	LCH	50	0	19.74	20.38	PASS
160 444		50	25	19.41	20.05	PASS
16QAM		50	50	19.34	19.98	PASS
		100	0	19.51	20.15	PASS
		1	0	20.15	20.79	PASS
	MCH	1	49	20.81	21.45	PASS
		1	99	21.21	21.85	PASS

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<u>SHENZHE</u>	N LCS COMPL	JANCE TEST	ING LABOH	RATORY LT	D. FCC ID: 0555	03719 Report No	.:LCS190923	018AEG
			50	0	18.85	19.49	PASS	
			50	25	19.39	20.03	PASS	
			50	50	19.59	20.23	PASS	
			100	0	19.22	19.86	PASS	
			1	0	20.95	21.59	PASS	
			1	49	21.72	22.36	PASS	
			1	99	20.93	21.57	PASS	
		НСН	50	0	20.15	20.79	PASS	
			50	25	20.17	20.81	PASS	
			50	50	19.97	20.61	PASS	
			100	0	19.98	20.62	PASS	

E.2: Peak-to-Average Ratio

	Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
wodulation		[dB]	[dB]	Verdict		
	LCH	4.91	<13	PASS		
QPSK	MCH	4.98	<13	PASS		
	НСН	4.68	<13	PASS		
	LCH	5.96	<13	PASS		
16QAM	MCH	5.99	<13	PASS		
	НСН	5.71	<13	PASS		

	Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
wouldton		[dB]	[dB]	Verdict		
	LCH	4.97	<13	PASS		
QPSK	MCH	5.20	<13	PASS		
	НСН	5.07	<13	PASS		
	LCH	5.93	<13	PASS		
16QAM	MCH	5.97	<13	PASS		
	НСН	5.87	<13	PASS		

	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
MODULATION		[dB]	[dB]	Verdict		
	LCH	5.00	<13	PASS		
QPSK	MCH	5.08	<13	PASS		
	НСН	4.97	<13	PASS		
	LCH	5.79	<13	PASS		
16QAM	MCH	5.90	<13	PASS		
	НСН	5.78	<13	PASS		

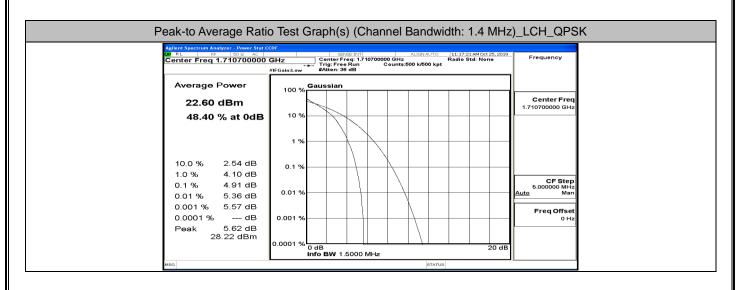
	Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
wouldtion	Channel	[dB]	[dB]	Verdict		
	LCH	5.30	<13	PASS		
QPSK	MCH	5.25	<13	PASS		
	НСН	5.26	<13	PASS		
	LCH	6.07	<13	PASS		
16QAM	MCH	5.98	<13	PASS		
	НСН	6.05	<13	PASS		

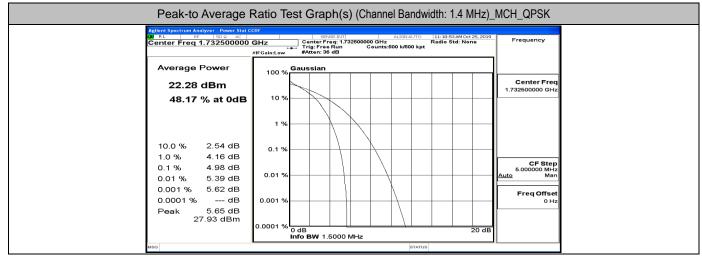
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	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
wouldton		[dB]	[dB]	Verdict		
	LCH	4.99	<13	PASS		
QPSK	MCH	4.89	<13	PASS		
	НСН	4.95	<13	PASS		
	LCH	6.22	<13	PASS		
16QAM	MCH	6.15	<13	PASS		
	HCH	6.21	<13	PASS		

	Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation		[dB]	[dB]	Verdict		
	LCH	5.71	<13	PASS		
QPSK	MCH	5.61	<13	PASS		
	НСН	5.77	<13	PASS		
	LCH	6.80	<13	PASS		
16QAM	MCH	6.67	<13	PASS		
	НСН	6.69	<13	PASS		

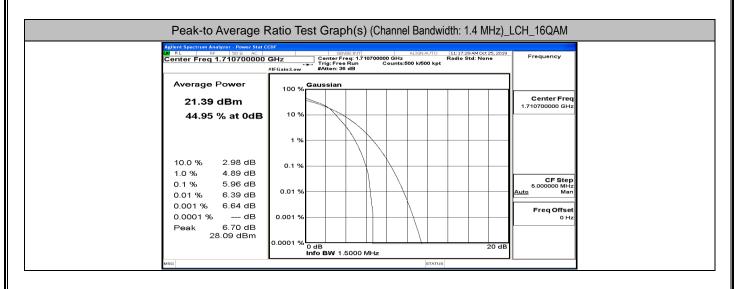
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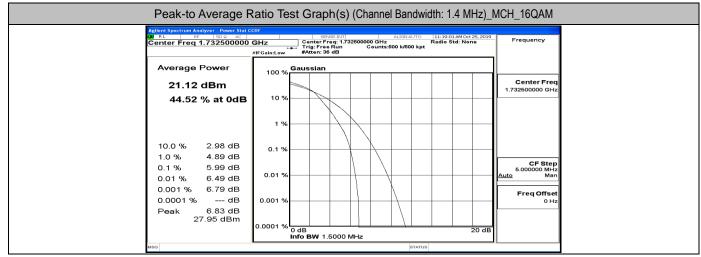




Agilent Spectrum Analyzer - Power Stat	Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_	HCH_QPSK
121 RL RF 150 G AC Center Freq 1.754300000	GHz CenterFreq: 174530000 GHz Radio Std: None Trig: Free Run Counts:500 k/500 kpt #IFGain:Low #Atten: 36 dB	Frequency
Average Power 22.96 dBm 49.48 % at 0dB	100 % Gaussian	Center Freq 1.754300000 GHz
10.0 % 2.52 dB	1 %	
1.0 % 3.97 dB 0.1 % 4.68 dB 0.01 % 5.04 dB 0.001 % 5.15 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man Freq Offset
0.0001 % dB Peak 5.19 dB 28.15 dBm	0.001 % 0.0001 % 0 dB 20 dB 20 dB	0 Hz

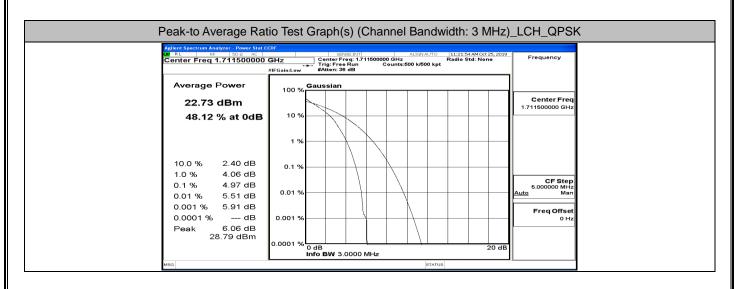
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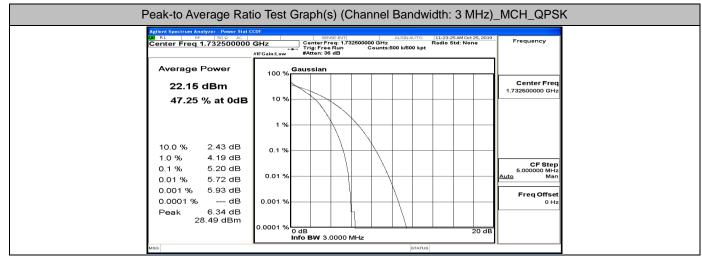




Agilent Spectrum Analyzer - Power Stat C		
M PF DOQ AC Center Freq 1.7543000000 Average Power Average Power	GHz Center Free: 754300000 CH2 Center Free: 7543000000 CH2 Center Free: 754300000 CH2 Center Free: 7543000000 CH2 CENter Free: 75430000000 CH2 CENter Free: 7543000000000 CH2 CENter Free: 75430000000000000 CH2 CENter Free: 7543000000000000000000000000000000000000	- Frequency
21.81 dBm 45.22 % at 0dB	10 %	Center Freq 1.754300000 GHz
10.0 % 2.95 dB 1.0 % 4.74 dB	0.1 %	CF Step
0.1 % 5.71 dB 0.01 % 6.14 dB 0.001 % 6.31 dB 0.0001 % dB	0.01 %	5.00000 МН2 <u>Auto</u> Мал Freq Offset 0 Hz
Peak 6.32 dB 28.13 dBm	0.0001 % 0 dB 20 d info BW 1.5000 MHz 20 d	3

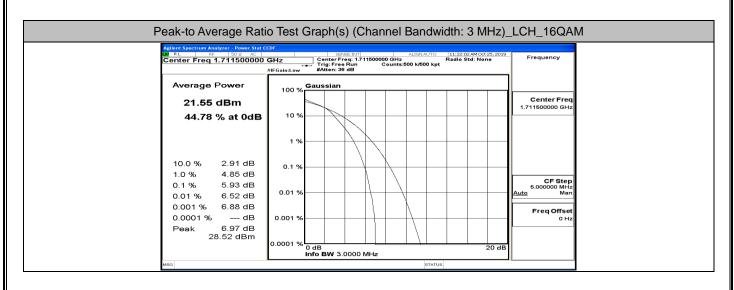
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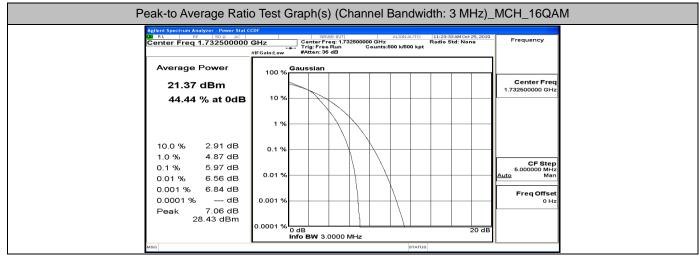




Agilent Spectrum Analyzer - Power Stat CO	SENSE:INT ALIGNAUTO 11:24:5	3 AM Oct 25, 2019	_
Center Freq 1.753500000	GHz Center Freq: 1.753500000 GHz Radio S Trig: Free Run Counts:500 k/500 kpt #IFGain:Low #Atten: 36 dB	itd: None	Frequency
Average Power	100 % Gaussian		
22.77 dBm			Center Freq 1.753500000 GHz
47.89 % at 0dB	10 %		
	1 %		
10.0 % 2.39 dB 1.0 % 4.08 dB	0.1 %		
0.1 % 5.07 dB 0.01 % 5.63 dB	0.01 %		CF Step 5.000000 MHz Auto Man
0.001 % 5.96 dB 0.0001 % dB	0.001 %		Freq Offset 0 Hz
Peak 6.01 dB			0 Hz
28.78 dBm	0.0001 % o dB	20 dB	
	Info BW 3.0000 MHz		

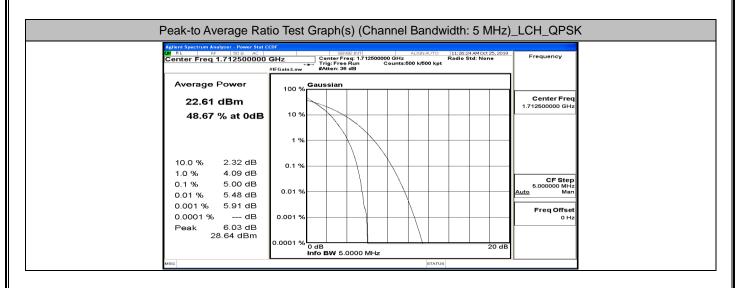
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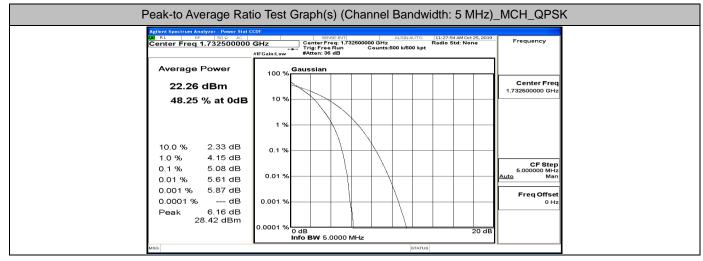




Peak-to Average Rat	io Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM
04 RL 67 1509 AC	SENSE:INT ALIGN AUTO 11:25:01 AM Oct 25, 20	Frequency
Average Power 21.77 dBm 44.80 % at 0dB	100 % Gaussian	Center Freq 1.753500000 GHz
10.0 % 2.91 dB	1 %	
1.0 % 4.80 dB 0.1 % 5.87 dB 0.01 % 6.44 dB 0.001 % 6.75 dB	0.01 %	CF Step 5.00000 MHz <u>Auto</u> Man
0.0001 % dB Peak 7.10 dB 28.87 dBm	0.001 %	B
MSG	Info BW 3.0000 MHz	

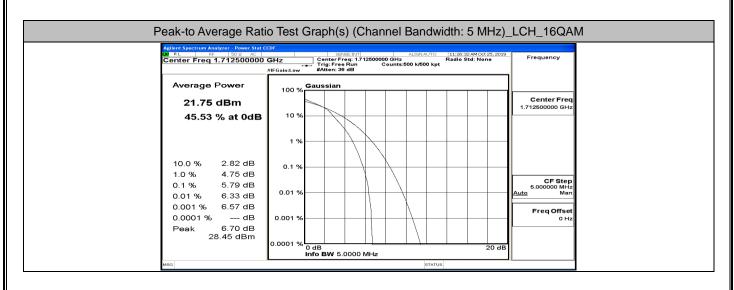
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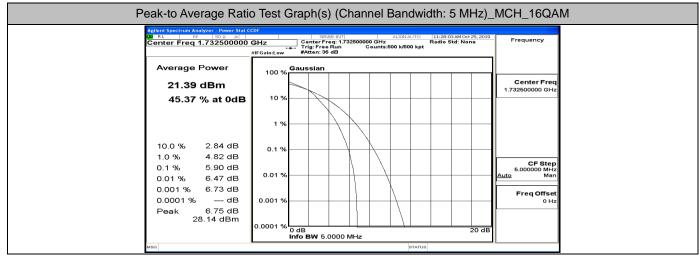




	io Test Graph(s) (Channel Bandwidth: 5 MHz)	_HCH_QPSK
Aglient Spectrum Analyzer. Dever Stat C 020, RL BF State State Center Freq 1.752500000	SENSE:INT ALIGNAUTO 11:29:24 AM Oct 25, 2019	Frequency
Average Power 22.76 dBm	100 % Gaussian	Center Freq
48.56 % at 0dB	10 %	1.752500000 GHz
	1 %	
10.0 % 2.33 dB 1.0 % 4.08 dB	0.1 %	CF Step
0.1 % 4.97 dB 0.01 % 5.50 dB	0.01 %	5.000000 MHz Auto Man
0.001 % 5.81 dB 0.0001 % dB Peak 5.90 dB	0.001 %	Freq Offset 0 Hz
28.66.dBm	0.0001 %	
MBG	INTO BW 5.0000 MHz	

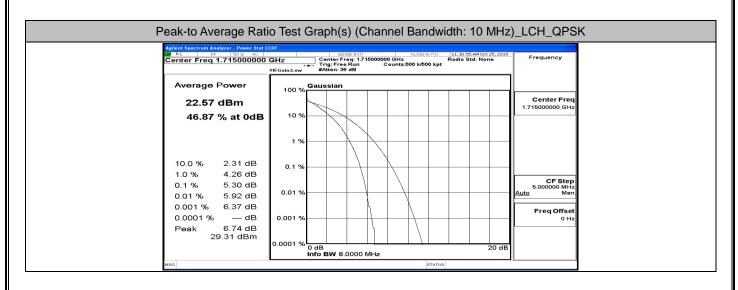
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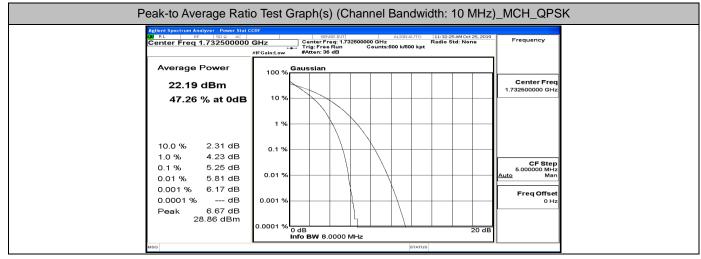




Peak-to Average Rati	o Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
Center Freq 1.752500000	SENSE:INT ALIGNAUTO 11:29:32 AM Oct 25, 20	¹⁰ Frequency
Average Power 21.88 dBm 45.86 % at 0dB	100 % Gaussian	Center Freq 1.752500000 GHz
10.0 % 2.84 dB		
1.0 % 4.79 dB 0.1 % 5.78 dB 0.01 % 6.41 dB 0.001 % 6.94 dB	0.1 %	CF Step 5.00000 MHz Auto Man
0.0001 % dB Peak 7.21 dB 29.09 dBm	0.001 %	B
MBG	Info BW 5.0000 MHz	

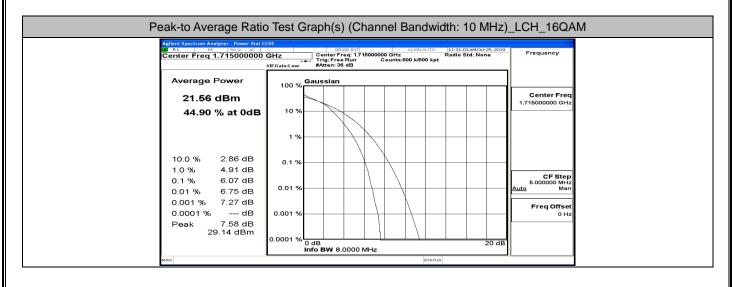
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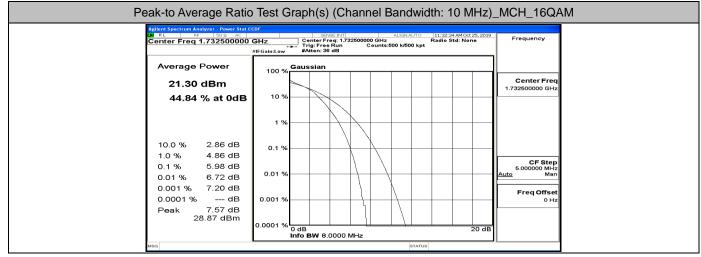




Peak-to Average Rat	o Test Graph(s) (Channel Bandwidth: 10 MH	z)_HCH_QPSK
Adjent Spectrum Analyser. Dever Stat. 00 RL 58: 500 AC Center Freq 1.750000000	SENSE:INT ALIGN AUTO 11:33:57 AM Oct 25, 20	¹⁹ Frequency
Average Power 22.79 dBm	100 % Gaussian	Center Freq 1.75000000 GHz
47.28 % at 0dB	10 %	
10.0 % 2.29 dB 1.0 % 4.24 dB	0.1 %	CF Step
0.1 % 5.26 dB 0.01 % 5.82 dB 0.001 % 6.22 dB	0.01 %	5.000000 MHz Auto Man Freq Offset
0.0001 % dB Peak 6.51 dB 29.30 dBm	0.0001 % 0 dB 20 d	0 Hz
MBG	Info BW 8.0000 MHz	

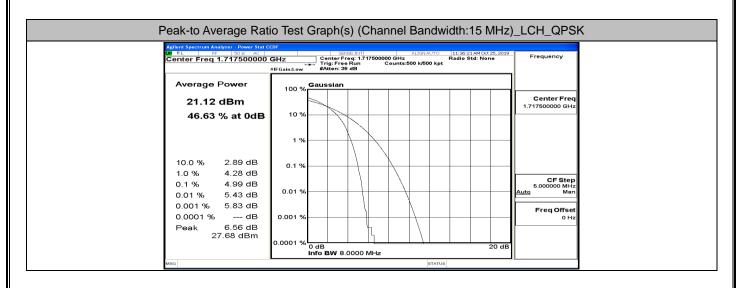
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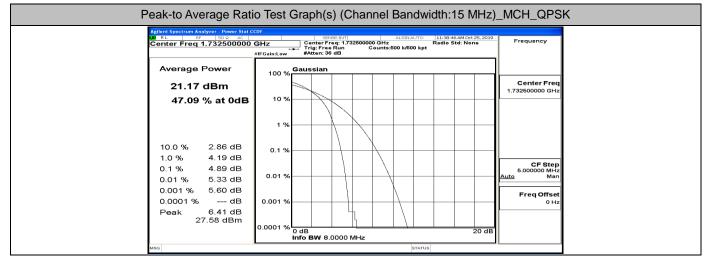




Agilent Spectrum Analyzer - Power Stat C		
Center Freq 1.750000000 Center Freq 1.750000000 Average Power	GHZ Center Free: 175000000 CH2 Radio Std: None #IFGain:Low #Atten: 36 dB	Frequency
21.77 dBm 45.04 % at 0dB	10 %	Center Freq 1.750000000 GHz
10.0 % 2.86 dB 1.0 % 4.90 dB	0.1 %	
0.1 % 6.05 dB 0.11% 6.69 dB 0.01% 7.16 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man Freq Offset
0.0001 % dB Peak 7.50 dB 29.27 dBm	0.001 %	0 Hz
MSG	Info BW 8.0000 MHz	

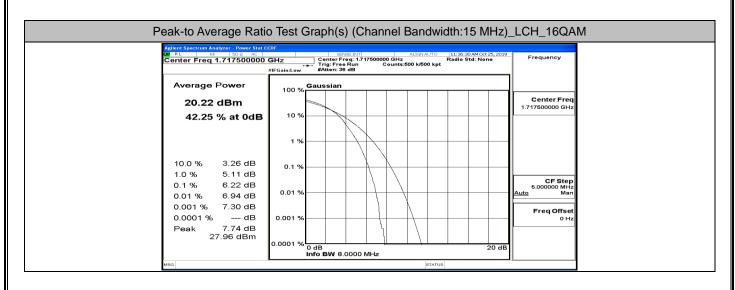
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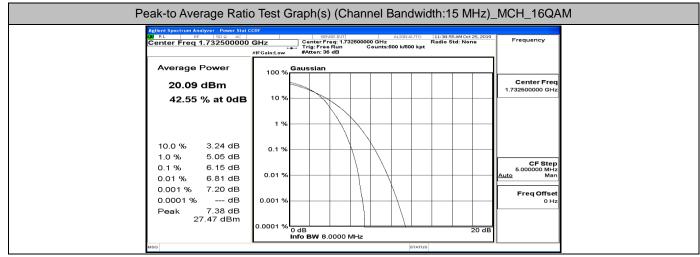




Agilent Spectrum Analyzer - Power Stat C		
Center Freq 1.747500000	#IFGain:Low #Atten: 36 dB	Frequency
21.57 dBm 46.87 % at 0dB	100 %	Center Freq 1.747500000 GHz
10.0 % 2.87 dB 1.0 % 4.23 dB	0.1 %	
1.0 % 4.23 dB 0.1 % 4.95 dB 0.01 % 5.44 dB 0.001 % 5.84 dB	0.01 %	CF Step 5.00000 MHz Auto Man
0.0001 % dB Peak 5.94 dB 27.51 dBm	0.0001 % 0 dB 20 dB	Freq Offset 0 Hz
MBQ	Info BW 8.0000 MHz	

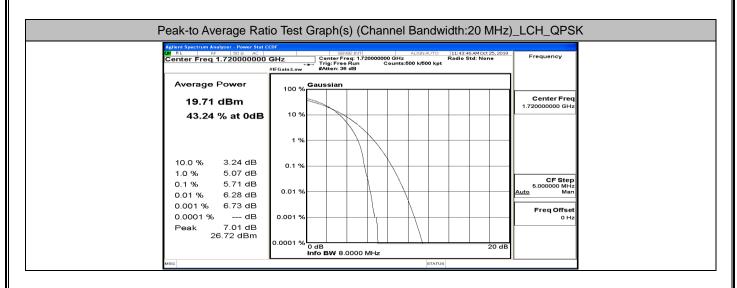
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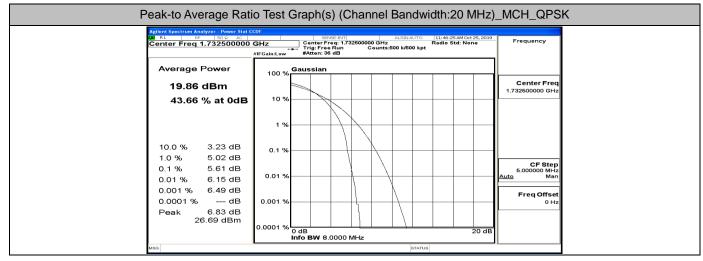




Agilent Spectrum Analyzer - Power Stat C	o Test Graph(s) (Channel Bandwidth:15 MHz)	_HCH_16QAM
Center Freq 1.747500000 Average Power	#IFGain:Low #Atten: 36 dB	Frequency
20.64 dBm 42.45 % at 0dB	100 % Gaussian	Center Freq 1.747500000 GHz
	1 %	
10.0 % 3.27 dB 1.0 % 5.09 dB	0.1 %	
0.1 % 6.21 dB 0.01 % 6.87 dB	0.01 %	CF Step 5.00000 MHz <u>Auto</u> Man
0.001 % 7.32 dB 0.0001 % dB Peak 7.56 dB	0.001 %	Freq Offset 0 Hz
28.20 dBm	0.0001 % 0 dB 20 dB 20 dB	
MSG	STATUS	

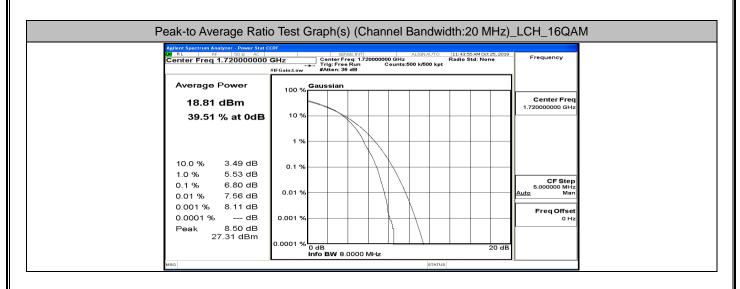
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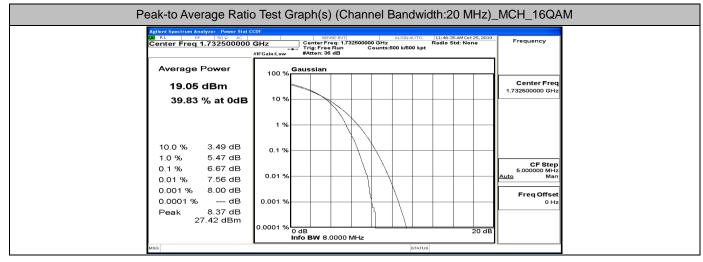




Agilent Spectrum Analyzer - Power Stat 0		-
Center Freq 1.745000000 Average Power	#IFGainLow #Atten: 36 dB	^e Frequency
20.04 dBm 43.25 % at 0dB	100 % ddssian 10 %	Center Freq 1.745000000 GHz
10.0 % 3.25 dB 1.0 % 5.09 dB	0.1 %	-
0.1 % 5.77 dB 0.01 % 6.35 dB 0.001 % 6.66 dB	0.01 %	CF Step 5.00000 MHz Auto Freq Offset
0.0001 % dB Peak 7.07 dB 27.11 dBm	0.0001 % 0 dB 20 d	0 Hz
мва	Info BW 8.0000 MHz	

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Agilent Spectrum Analyzer - Power Stat C		
on RL ⊫ ∞ ∞ ∞ ⊂ Center Freq 1.7450000000	#IFGainLow #Atten: 8 dB	Frequency
19.07 dBm 39.48 % at 0dB	100 %	Center Freq 1.745000000 GHz
10.0 % 3.49 dB 1.0 % 5.51 dB	0.1 %	
0.1 % 6.69 dB 0.01 % 7.41 dB 0.001 % 7.87 dB	0.01 %	CF Step 5.000000 MHz Auto Man Freq Offset
0.0001 % dB Peak 8.50 dB 27.57 dBm	0.0001 % 0.0001 %	0 Hz
MSG	Info BW 8.0000 MHz	

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E.3: 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	Verdict
	LCH	1.0761	1.201	PASS
QPSK	MCH	1.0720	1.225	PASS
	НСН	1.0778	1.224	PASS
	LCH	1.0798	1.240	PASS
16QAM	MCH	1.0780	1.222	PASS
	НСН	1.0748	1.246	PASS

	EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict	
	LCH	2.6740	2.822	PASS	
QPSK	MCH	2.6775	2.818	PASS	
	HCH	2.6769	2.830	PASS	
	LCH	2.6803	2.844	PASS	
16QAM	MCH	2.6761	2.820	PASS	
	НСН	2.6793	2.828	PASS	

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation	Channel	(MHz)	(MHz)	Verdict
	LCH	4.4743	4.838	PASS
QPSK	MCH	4.4811	4.840	PASS
	НСН	4.4749	4.882	PASS
	LCH	4.4768	4.886	PASS
16QAM	MCH	4.4670	4.872	PASS
	НСН	4.4820	4.835	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
MODUIATION	Channel	(MHz)	(MHz)	Verdict	
	LCH	8.9498	9.546	PASS	
QPSK	MCH	8.9401	9.569	PASS	
	НСН	8.9290	9.542	PASS	
	LCH	8.9435	9.526	PASS	
16QAM	MCH	8.9268	9.471	PASS	
	НСН	8.9444	9.450	PASS	

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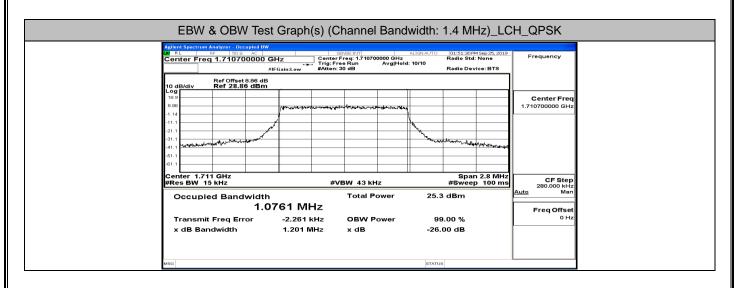
	EBW & OBW Te	est Result (Channel Band	lwidth: 15 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldton	Channel	(MHz)	(MHz)	Verdict
	LCH	13.415	14.13	PASS
QPSK	MCH	13.375	14.04	PASS
	HCH	13.406	14.05	PASS
	LCH	13.422	14.14	PASS
16QAM	MCH	13.379	14.05	PASS
	НСН	13.400	14.09	PASS

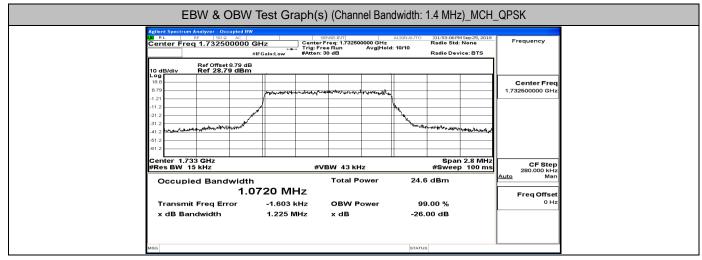
	EBW & OBW Te	est Result (Channel Band	lwidth: 20 MHz)	
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
	LCH	17.894	18.77	PASS
QPSK	MCH	17.817	18.63	PASS
	НСН	17.851	18.60	PASS
	LCH	17.895	18.73	PASS
16QAM	MCH	17.831	18.56	PASS
	НСН	17.849	18.62	PASS

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FCC ID: 055503719

Report No.:LCS190923018AEG



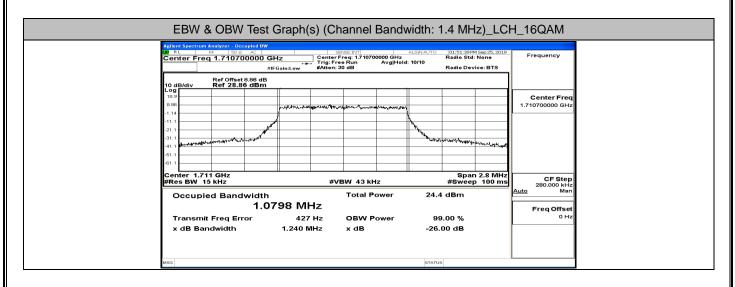


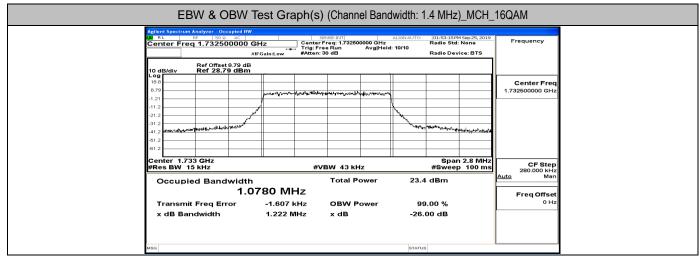
Agilent Spectrum Analyzer - Occupied BW V RL RF 50 Q AC Center Freq 1.754300000 G	Hz Center F Trig: Fre	NSE:INT req: 1.754300000 GHz e Run Avg Holo	ALIGNAUTO 01:54:40 PM Sep 25, 2019 Radio Std: None 1: 10/10 Radio Device: BTS	Frequency
Ref Offset 8.79 dB 10 dB/div Ref 28.79 dBm	FGain:Low #Atten: 3		Radio Device: B 15	
18.8	man sunt y the select second	Apriliansien Magazariana	N	Center Freq 1.754300000 GHz
-11.2 -21.2 -31.2 -41.2			warmanthorewarkapapilywydd	
-51.2 -61.2 Center 1.754 GHz			Span 2.8 MHz	
#Res BW 15 kHz Occupied Bandwidth	#VE	3W 43 kHz Total Power	#Sweep 100 ms	CF Step 280.000 kHz Auto Man
1.07 Transmit Freq Error	778 MHz -2.505 kHz	OBW Power	99.00 %	Freq Offset 0 Hz
x dB Bandwidth	1.224 MHz	x dB	-26.00 dB	

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FCC ID: 055503719

Report No.:LCS190923018AEG



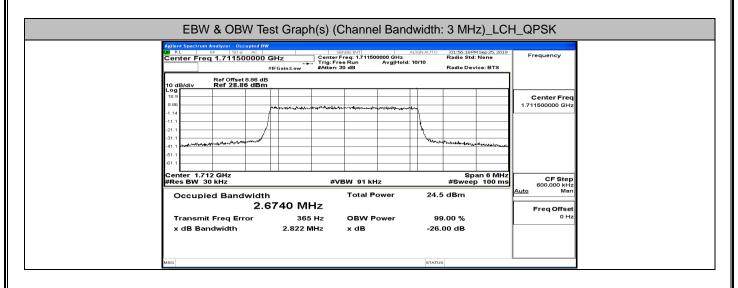


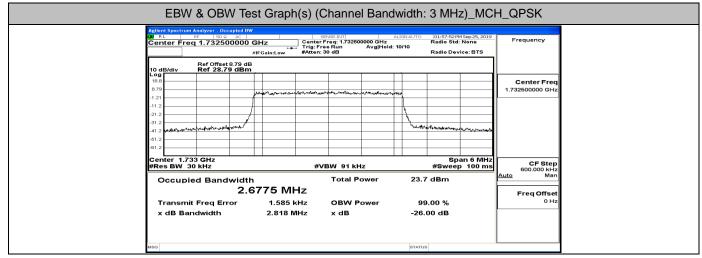
Center Freq 1.754300000 G		req: 1.754300000 GHz Run Avg Hold	ALIGNAUTO 01:54:49 PM Sep 25, 2019 Radio Std: None 1: 10/10	Frequency
Ref Offset 8.79 dB	FGain:Low #Atten: 3	30 dB	Radio Device: BTS	
10 dB/div Ref 28.79 dBm				
1.21	Lalyster Beller, Baller, and an and a second	alline and Mr. Law areas and a		Center Freq 1.754300000 GHz
-11.2				
-21.2 -31.2 -41.2				
-41.2				
Center 1.754 GHz			Span 2.8 MHz	CF Step
#Res BW 15 kHz Occupied Bandwidth	#V	BW 43 kHz Total Power	#Sweep 100 ms 24.0 dBm	280.000 kHz Auto Man
	748 MHz			Freq Offset
Transmit Freq Error x dB Bandwidth	-878 Hz 1.246 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz

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FCC ID: 055503719

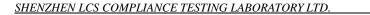
Report No.:LCS190923018AEG





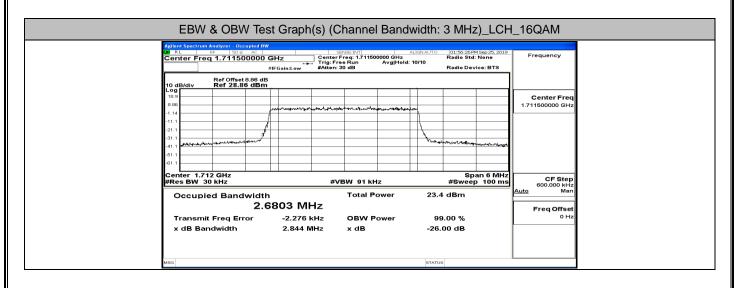
EBW & OBW Tex Agtent Spectrum Analyzer . Occupied htm		Channel Band	width: 3 MHz)_HC	H_QPSK
00 RL RP 1000 AC Center Freq 1.753500000 C Ref Offset 879 dB 10 dB/div Ref 28.79 dBm		Freq: 1.753500000 GHz se Run Avg Hold: ′	LIGNAUTO 01:99:23 PM sep 28, 2011 Radio Std: None 10/10 Radio Device: BTS	Frequency
Log 18.8 8.79 1.21	การระบาทสะบารสะบริเศรษณฑิตารุสต			Center Freq 1.753500000 GHz
-11.2 -21.2 -31.2 -41.2 -61.2			Mither Marked Linesenweith	- H
Genter 1.754 GHz Center 1.754 GHz #Res BW 30 kHz		BW 91 kHz Total Power	Span 6 MH: #Sweep 100 m 24.0 dBm	
	5769 MHz -4.735 kHz	OBW Power	99.00 %	Freq Offset 0 Hz
x dB Bandwidth	2.830 MHz	x dB	-26.00 dB	
MSG			STATUS	

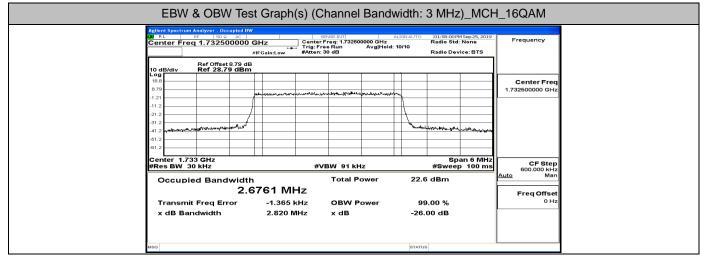
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FCC ID: 055503719

Report No.:LCS190923018AEG



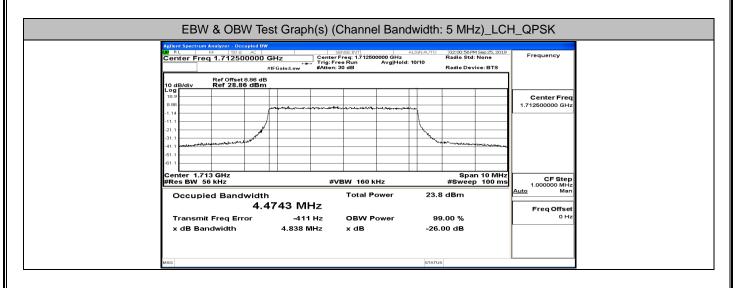


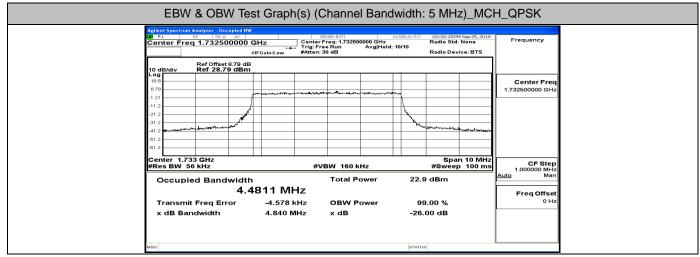
Occupied Bandwidth Total Power 23.0 dBm Auto Ma 2.6793 MHz Freq Offse	Applient Spectrum Analyzer Occupied DW MRL RF S0 & AC Center Freq 1.753500000 GH #IE-C	SE	NSE:INT A Freq: 1.753500000 GHz • Run Avg Hold:	LIGNAUTO		1 Sep 25, 2019 None	Frequency	
121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 121 <th 121<="" th="" th<=""><th>10 dB/div Ref 28.79 dBm Log 18.8</th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th>10 dB/div Ref 28.79 dBm Log 18.8</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	10 dB/div Ref 28.79 dBm Log 18.8						
#Res BW 30 kHz #VBW 91 kHz #Sweep 100 ms CF Step (Marcology) Occupied Bandwidth Total Power 23.0 dBm Auto Marcology 2.6793 MHz Freq Offse Freq Offse 0 H:	1.21			1	Nitanja Jamaja,	MULHALLINN)		
Transmit Freq Error -2.227 kHz OBW Power 99.00 %	#Res BW/30 kHz	#V		23.0	#Sweep		CF Step 600.000 kHz Auto Man	
x dB Bandwidth 2.828 MHz x dB -26.00 dB			OBW Power	99	0.00 %			
	x dB Bandwidth	2.828 MHz	x dB	-26.	00 dB			

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FCC ID: 055503719

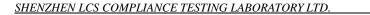
Report No.:LCS190923018AEG





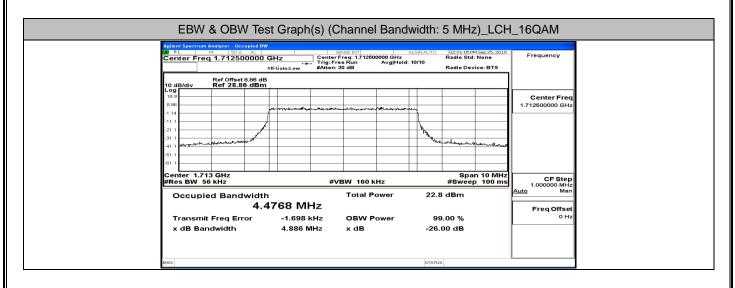
EBW & OBW Tes	t Graph(s) (Channel Banc	dwidth: 5 MHz)_H	ICH_QPSK
02 RL RF 50 Ω AC Center Freq 1.752500000 G	Hz Center FGain:Low #Atten	Freq: 1.752500000 GHz ee Run Avg Hold:	ALIGNAUTO 02:04:01 PM Sep 25, Radio Std: None : 10/10 Radio Device: BT	Frequency
Log 18.8 8.79 -1.21	an for for some full a function of the	and and a star many second and a star a star a star a st		Center Freq 1.752500000 GHz
-11.2 -21.2 -31.2 -41.2 -61.2			the second second second	
^{161.2} Center 1.753 GHz #Res BW 56 kHz	#\	/BW 160 kHz	Span 10 N #Sweep 100	IHZ CF Step ms 1.000000 MHz Auto Man
Occupied Bandwidth 4.47	749 MHz	Total Power	23.5 dBm	Freq Offset
Transmit Freq Error x dB Bandwidth	-7.396 kHz 4.882 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz
MSG			STATUS	

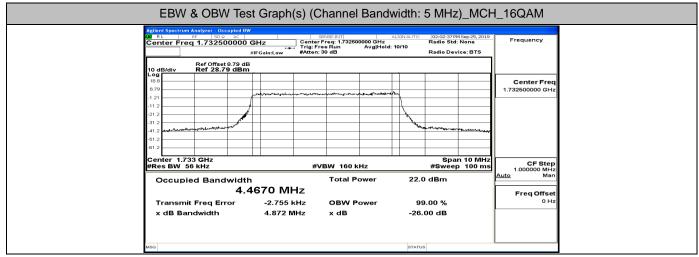
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FCC ID: 055503719

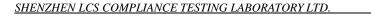
Report No.:LCS190923018AEG





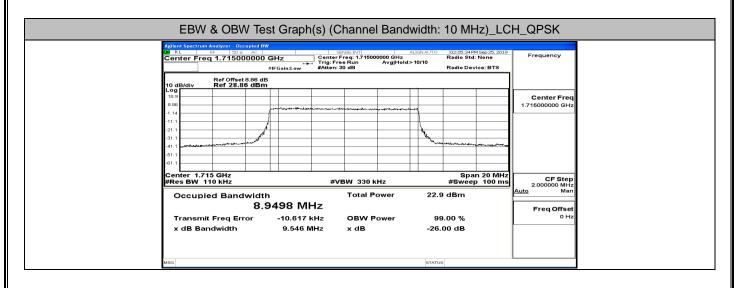
Center Freq 1.752500000 GHz Radio Std: None ##FGainLow ##FGainLow ##FGainLow ##GainLow ##FGainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow ##GainLow Ref 07set 6.79 dB Genter Freq 10 dB/div Ref 28.79 dBm Genter Freq 12 Genter Freq 13 Genter 14 Genter	Agilent Spectrum Analyzer - Occupied BW Ø RL RF 50 Ω AC	9	ENSE:INT	width: 5 MHz)_HC	
Instruction Center Freq 1.12	Ref Offset 8.79 dB 10 dB/div Ref 28.79 dBm	#IFGain:Low #Atten:	eeRun Avg Hold		Frequency
61.2 Image: Constraint of the second se	18.8	And a start and a start and a	Magazierophysiopa	6 -a	
Center 1.753 GHz #Res BW 56 kHz #VBW 160 kHz #Span 10 MHz Doccupied Bandwidth Total Power 22.4 dBm 4.4820 MHz Transmit Freq Error -4.667 kHz OBW Power 99.00 %	-11.2 -21.2 -31.2 -41.2 -61.2			the second secon	
4.4820 MHz Transmit Freq Error -4.667 kHz OBW Power 99.00 %	Center 1.753 GHz #Res BW 56 kHz			#Sweep 100 m	5 1.000000 MHz
	4.4	820 MHz			Freq Offset

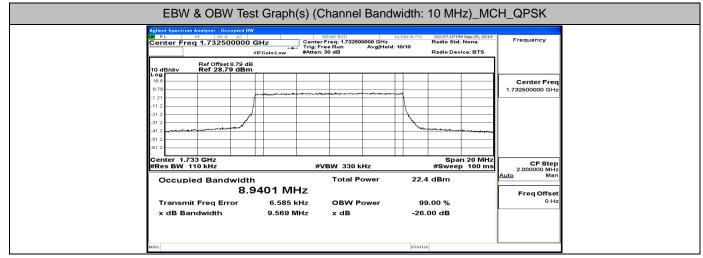
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FCC ID: 055503719

Report No.:LCS190923018AEG

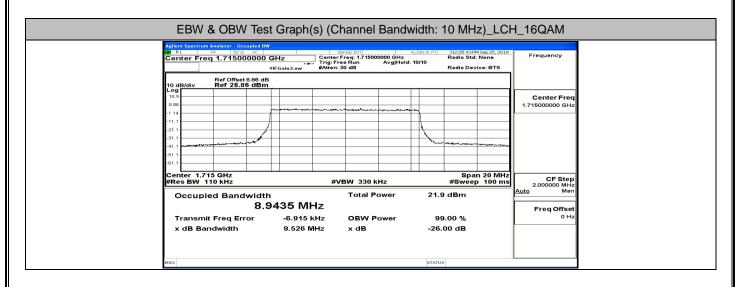


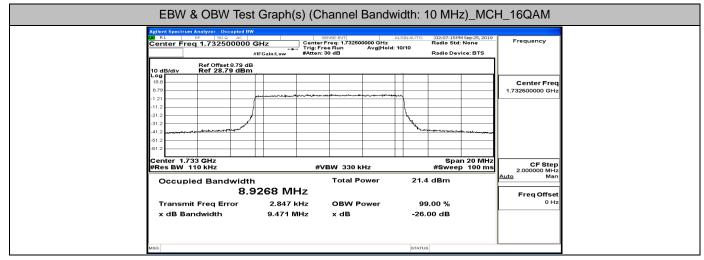


EBW & OBW Tes Aglient Spectrum Analyzer - Occupied IN	V				
Ref Offset 8.79 dB	GHz Center #IFGain:Low #Atten:	Freq: 1.750000000 GHz ee Run Avg Hold	ALIGNAUTO 02:08:38 PM Sep 25, 2 Radio Std: None Radio Device: BTS	Frequency	
10 dB/div Ref 28.79 dBm Log	l	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	• • • • • • • • • • • • • • • • • • •	Center Freq 1.75000000 GHz	
-11.2 -21.2 -31.2 -41.2 protocological and a second			L Andrew Contraction of the second se		
-61.2 -61.2 Center 1.75 GHz #Res BW 110 kHz		/BW 330 kHz	Span 20 M #Sweep 100	Hz CF Step	
Occupied Bandwidth		Total Power	23.0 dBm	Auto Man Freq Offset	
Transmit Freq Error x dB Bandwidth	77 Hz 9.542 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz	
MSQ			STATUS		

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FCC ID: 055503719 Report No.:LCS190923018AEG



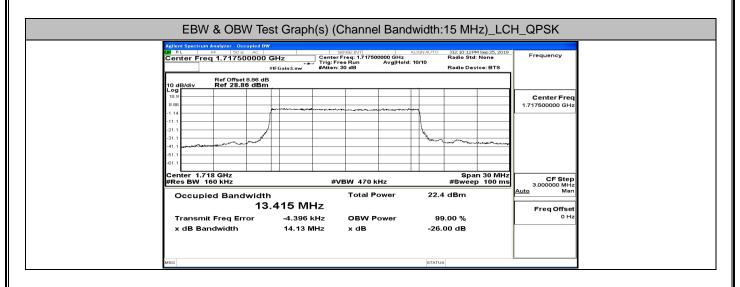


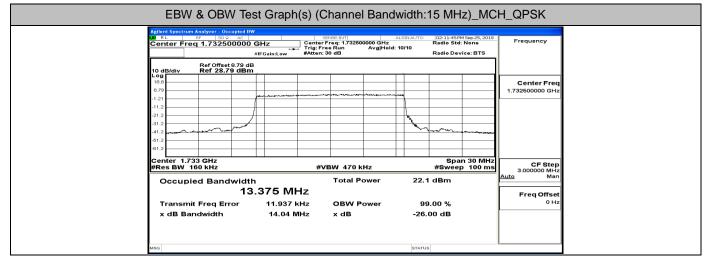
Center Freg 1.750000000 GHz	Center F	Freq: 1.750000000 GHz e Run Avg Hold:	ALIGN AUTO 02:08:47 PM Sep: Radio Std: Non 10/10 Radio Device: E	e Frequency
Ref Offset 8.79 dB 10 dB/div Ref 28.79 dBm 18.8				Center Fre
8.79	ารไหนเสียร์เหมีให้ระเหลี่ยนและเสียงเสียงได้เห	an darashada yanyaka kalendayaa angan		1.750000000 GH
-21.2 -31.2 -41.2			have been and the	++++++++++++++++++++++++++++++++++++++
-61.2				
Center 1.75 GHz #Res BW 110 kHz	#V	BW 330 kHz	Span 20 #Sweep 10	2.000000 MHz
Occupied Bandwidth 8.944	4 MHz	Total Power	22.1 dBm	Auto Man Freq Offset
· · · · · · · · · · · · · · · · · · ·	5.519 kHz 9.450 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz

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FCC ID: 055503719

Report No.:LCS190923018AEG



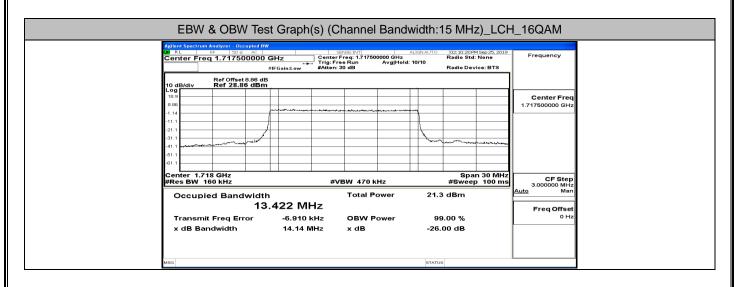


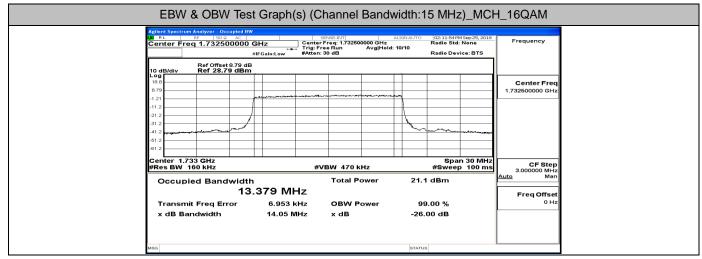
8.79 1.747500000 G 112 1.747500000 G 212 1.12 312 1.12 412 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 612 1.12 613 1.12 614 1.12 615 1.12 612 1.12 613 1.12 7 1.12 7 1.12 7 1.12 7 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1	#	Trig: Fre	req: 1.747500000 GHz		2:13:17 PM Sep 25, 2019 adio Std: None	Frequency
Log 10 12 12 12 12 12 12 12 12 12 12		#IFGain:Low #Atten: 3	eRun Avg Hold 10 dB	4: 10/10 R	adio Device: BTS	
11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11.2 <td< td=""><td>9 9</td><td>plane and a second second</td><td></td><td></td><td></td><td>Center Freq 1.747500000 GHz</td></td<>	9 9	plane and a second second				Center Freq 1.747500000 GHz
41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2	2					
Center 1.748 GHz #Res BW 160 kHz Cocupied Bandwidth 12 4 OC MHz Span 30 MHz #VBW 470 kHz Span 30 MHz #Sweep 100 ms Auto Mut Span 30 MHz #Sweep 100 ms Auto Mut Mut Span 30 MHz #Sweep 100 ms Span 30 MHz #Sweep 100 ms Span 30 MHz Span 30 MHz #Sweep 100 ms Span 30 MHz Span 30 MHz #Sweep 100 ms Span 30 MHz Span 30 MHz	2			her and	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Occupied Bandwidth Total Power 22.9 dBm	enter 1.748 GHz	#VE	BW 470 kHz	#	Span 30 MHz Sweep 100 ms	CF Step 3.000000 MHz
Frequins			Total Power	22.9 d	Bm	Auto Man Freg Offset
Transmit Freq Error -8.082 kHz OBW Power 99.00 % 0 x dB Bandwidth 14.05 MHz x dB -26.00 dB	•					0 Hz

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FCC ID: 055503719

Report No.:LCS190923018AEG



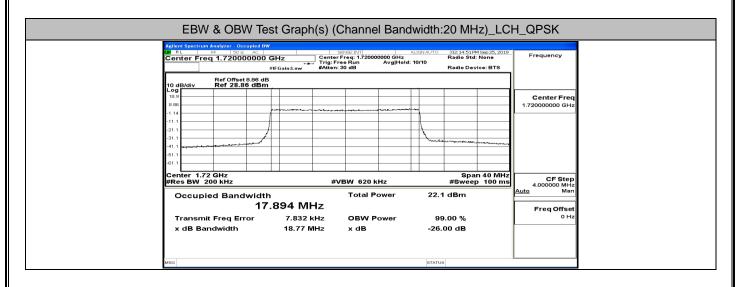


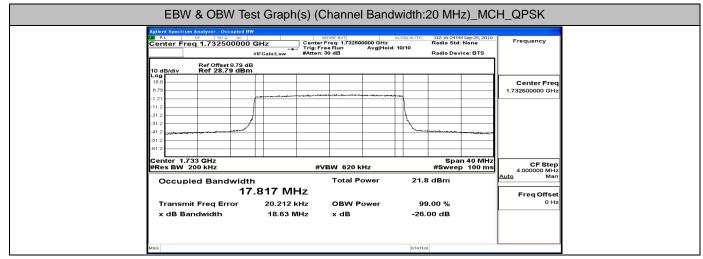
Agilent Spectrum Analyzer - Occupied BW		SENSE:INT	width:15 MHz)_HC	
Center Freq 1.747500000 (Ref Offset 8.79 dB 10 dB/div Ref 28.79 dB	GHz Center Trig: Fr /IFGain:Low #Atten:	Freq: 1.747500000 GHz ee Run Avg Hold 30 dB	Radio Std: None I: 10/10 Radio Device: BTS	
Log 18.8 8.79 -1.21	nga madantuma para munang			Center Freq 1.747500000 GHz
-11.2 -21.2 -31.2 -41.2 -61.2				
-61.2 Center 1.748 GHz #Res BW 160 kHz	#\	/BW 470 kHz	Span 30 MHz #Sweep 100 ms	3.000000 MHz
Occupied Bandwidth 13.	400 MHz	Total Power	21.8 dBm	Auto Man Freq Offset
Transmit Freq Error x dB Bandwidth	-8.532 kHz 14.09 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz
M8G			STATUS	

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FCC ID: 055503719

Report No.:LCS190923018AEG



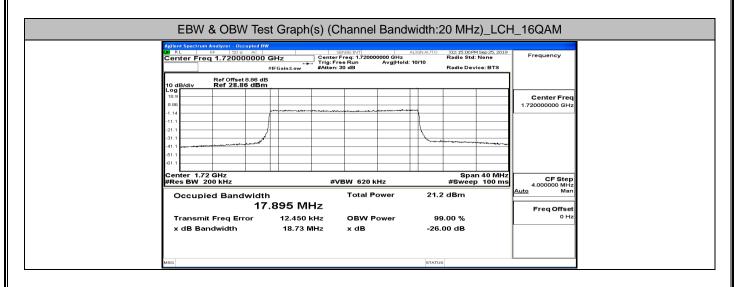


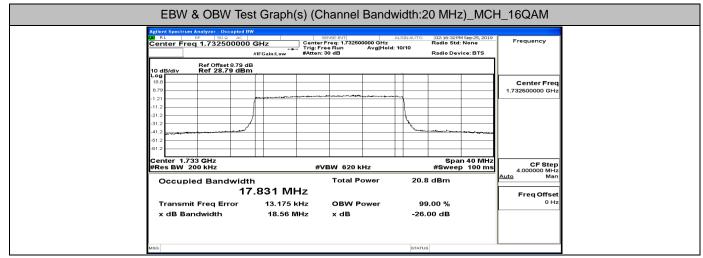
Apilent Spectrum Analyzer - Occupied NW W RL BF 500 AC SENSE:NT ALIXNAUTO 102:17:56 PM Sep 25, 2019 Center Freq 1.745000000 GHz #IFGain:Low #IFGain:Low #Atten: 30 dB Radio Device: BTS												
Ref Offset 8.79 d 10 dB/div Ref 28.79 dBn 18.8												
8.79 -1.21				Center Fred 1.745000000 GHz								
-11.2				_								
-41.2 -61.2 -61.2				-								
Center 1.745 GHz #Res BW 200 kHz												
Occupied Bandwidt	Auto Man Freq Offset											
Transmit Freq Error x dB Bandwidth	-19.188 kHz 18.60 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz								

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FCC ID: 055503719

Report No.:LCS190923018AEG

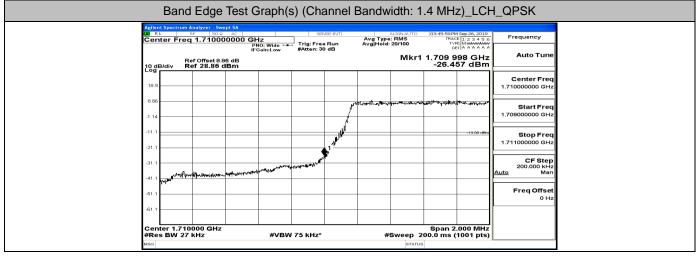


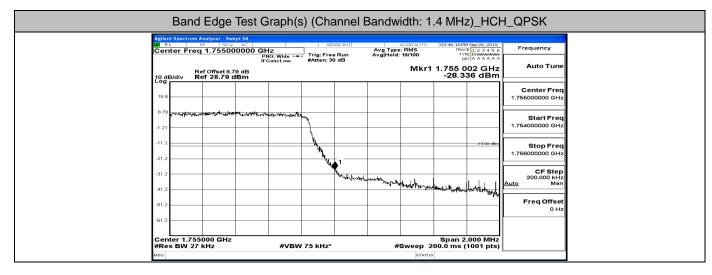


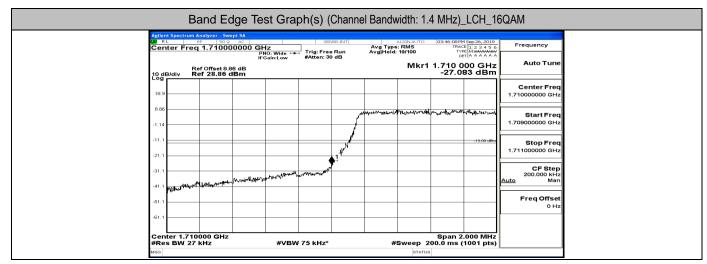
Agilent Spectrum Analyzer Occupied I M RL RF 50 Ω AC Center Freq 1.745000000	S	Freq: 1.745000000 GHz ee Run AvglHold:	Radio Std		Frequency
Ref Offset 8.79 dBr Log Ref 28.79 dBr 18.0	в				Center Fred 1.745000000 GHz
61.2 61.2 Center 1.745 GHz #Res BW 200 kHz Occupied Bandwidt		BW 620 kHz Total Power		n 40 MHz p 100 ms	CF Step 4.000000 MHz <u>Auto</u> Man
Transmit Freq Error x dB Bandwidth	-15.048 kHz 18.62 MHz	OBW Power x dB	99.00 % -26.00 dB		Freq Offset 0 Hz

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E.4: Band Edge

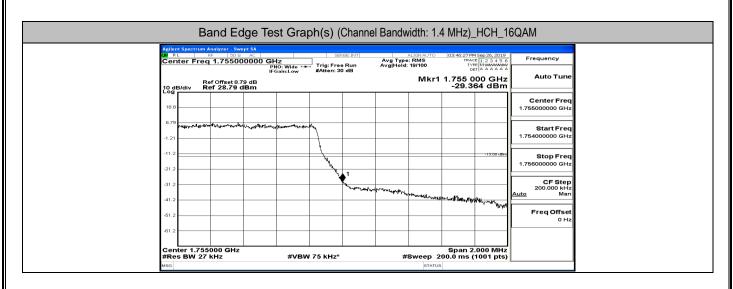


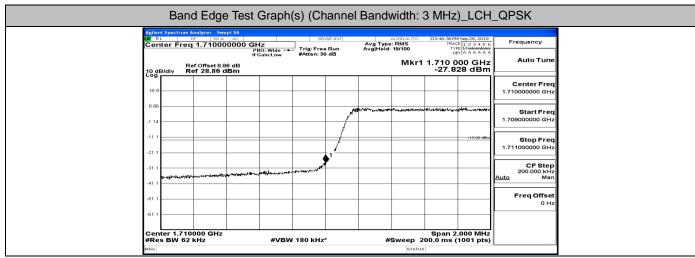


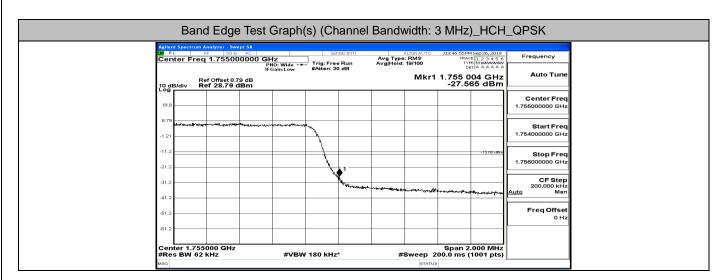


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FCC ID: 055503719 Report No.:LCS190923018AEG

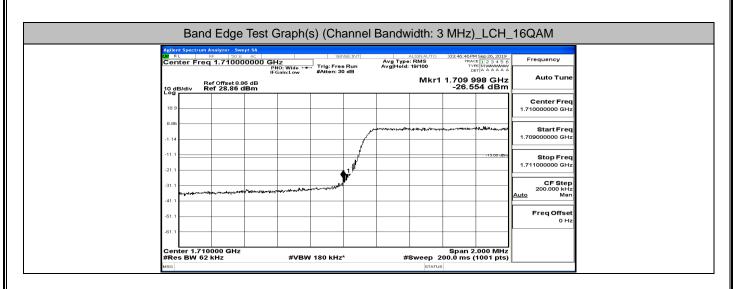


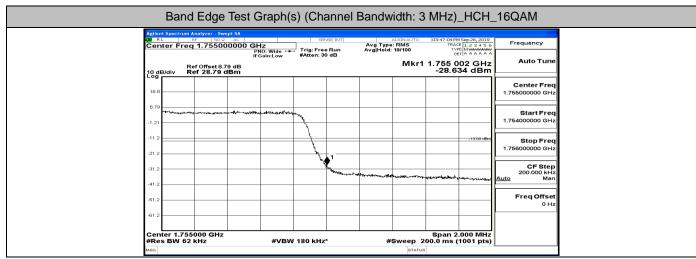


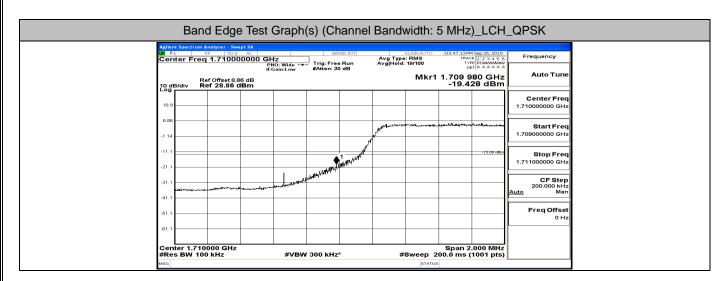


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FCC ID: 055503719 Report No.:LCS190923018AEG

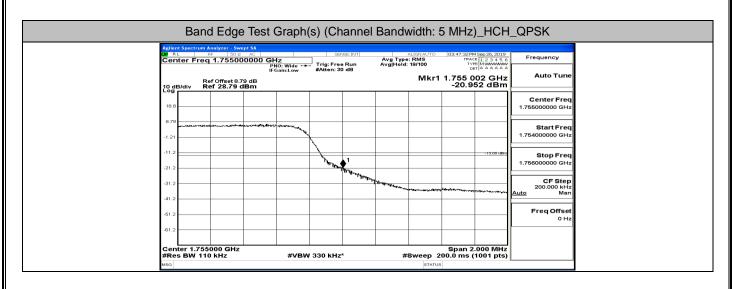


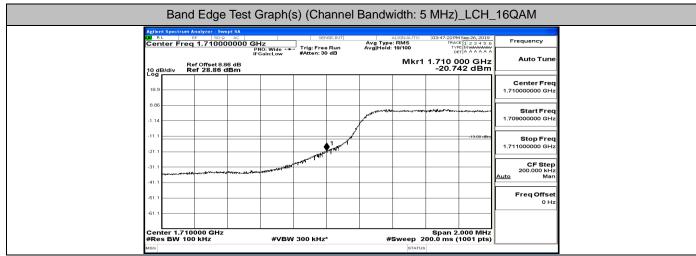


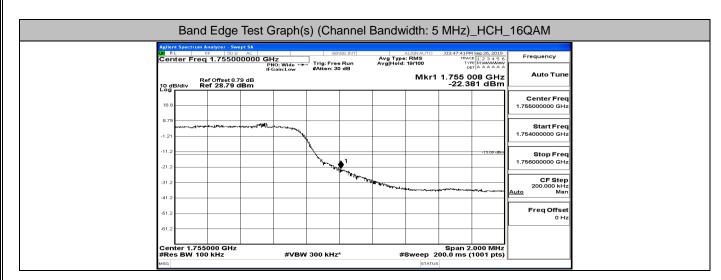


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FCC ID: 055503719 Report No.:LCS190923018AEG

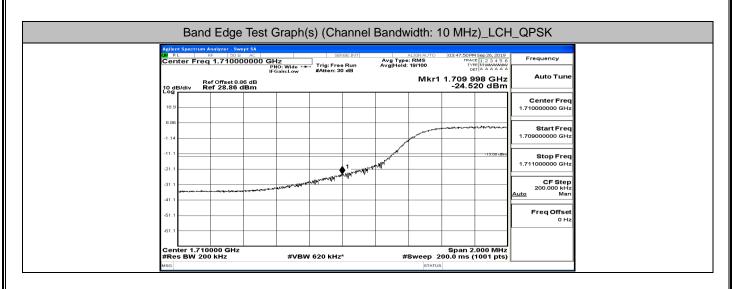


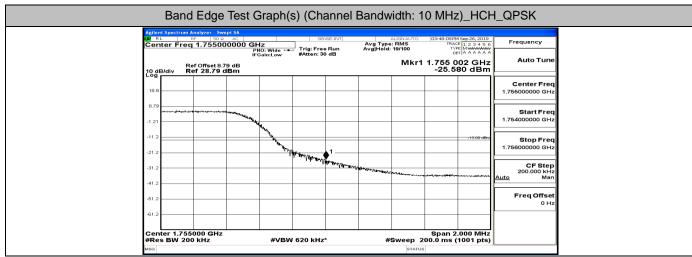




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FCC ID: 055503719 Report No.:LCS190923018AEG

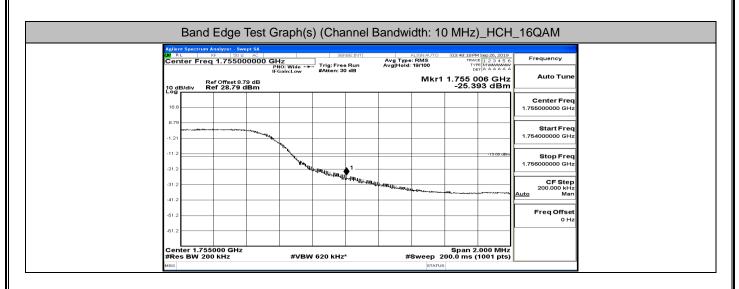


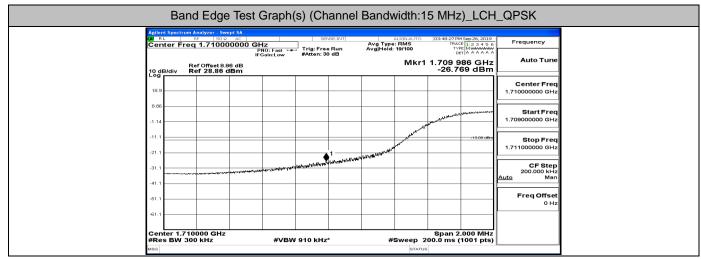


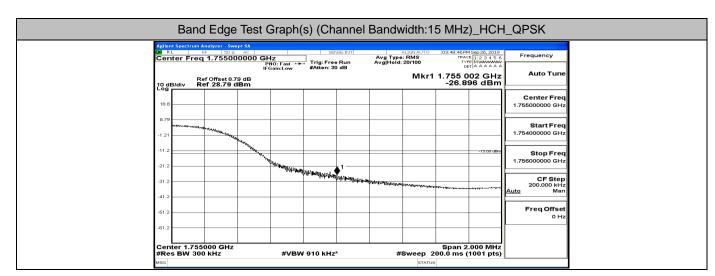
Agilent Spectru	Im Analyzer - Swo			CEF	VSE:INT		ALIGNAUTO	02:47:50 DM	Sep 26, 2019	
	eq 1.71000	00000 GHz	Wide	Trig: Free	Run	Avg Type Avg Hold:	: RMS 19/100	TRACI		Frequency
10 dB/div	Ref Offset 8.6 Ref 28.86 (36 dB	in:Low	#Atten: 30	0 dB		Mkr1	1.709 9		Auto Tune
18.9										Center Freq 1.710000000 GHz
8.86										Start Freq 1.709000000 GHz
-11.1									-13:00 dBm	Stop Freq 1.711000000 GHz
-21.1	9	and the second		ACT THE MONTH	and the local day of the state					CF Step 200.000 kHz
-41.1										<u>Auto</u> Man
-51.1										Freq Offset 0 Hz
-61.1										

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FCC ID: 055503719 Report No.:LCS190923018AEG

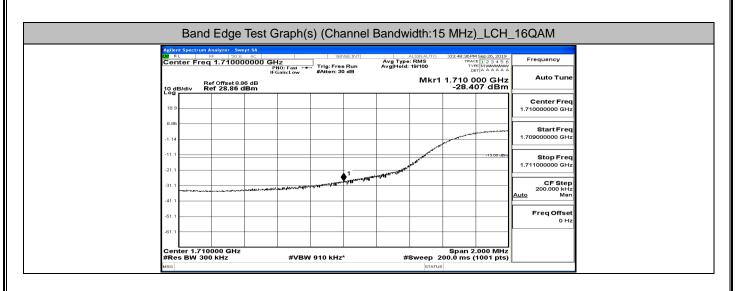


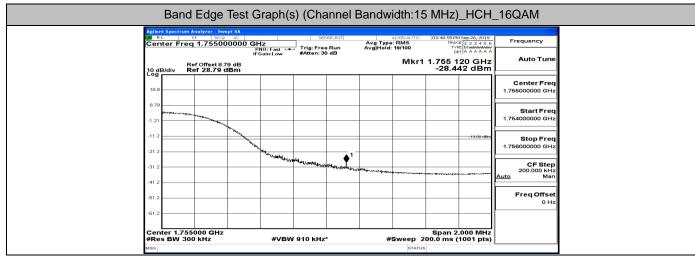




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FCC ID: 055503719 Report No.:LCS190923018AEG



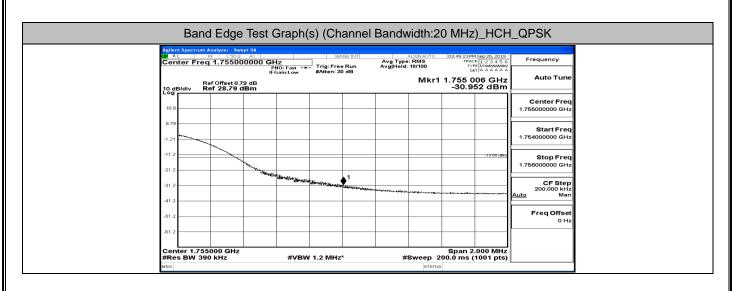


			-		Graph	(s) (Ch	annel	Bandv	vidth:2	0 MHz)_LCH	_QPSK
LXI R	L	req 1.7	50 Q	AC 1000 G	Hz PNO: Fast ↔		Run	Avg Type Avg Hold:	ALIGNAUTO : RMS 18/100	03:49:04 PM TRAC TYP DE	E 1 2 3 4 5 6 MWWWWWW T A A A A A A	Frequency
10 d	B/div	Ref Off Ref 28	set 8.86 3.86 dE	dB	Gain:Low	Pricent of			Mkr1	1.709 9	86 GHz 11 dBm	Auto Tune
18.9												Center Freq 1.710000000 GHz
-1.14												Start Freq 1.709000000 GHz
-11.1		_								John Barrow Marker	-13.00 dBm	Stop Freq
-21.1							1	northisternethiste	N. S. S. T. T. W. M. M. S.			1.711000000 GHz
-31.1					www.www.www.www.www.www.www.www.www.ww	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						200.000 kHz Auto Man
-51.1												Freq Offset 0 Hz
-61.1												
		710000 390 kH			#VBW	/ 1.2 MHz	*	#	Sweep 2	Span 2. 00.0 ms (000 MHz	

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FCC ID: 055503719

Report No.:LCS190923018AEG



Allow Spectrum Analyzer varies in Center Freq 1.710000000 GHz HG annual for the second sec			Band	Edge	Test G	iraph(s	s) (Cha	annel I	Bandwi	idth:20) MHz)	_LCH_	_16QAM
Ref Offset 8.86 dB Mkr1 1.709 100 GHz 10 dB/dlv Ref 28.86 dBm 11 dB/dlv Ref 28.86 dBm 12 dB/dlv Ref 28.86 dBm 13 dB/dlv Ref 28.86 dBm 14 dB/dlv Ref 28.86 dBm 15 dB/dlv Ref 28.86 dBm 16 dB/dlv Ref 28.86 dBm	1,00	RL	RI	F 50 Ω	AC 00000 GH	NO: Fast	Trig: Free	Run	Avg Type:	RMS	03:49:13PM TRACE TYPE	Sep 26, 2019	Frequency
18.9 1.71000000 GHz 1.14 1.7100000 GHz 1.17 1.710000 GHz 1.17 1.7100000 GHz 1.17 1.710000 GHz 1.17 1.200000 GHz 1.200000 GHz 1.200000			Re /div Re	f Offset 8.8 f 28.86 c	6 dB	Sain:Low	#Atten: 30			Mkr1	1.709 1	00 GHz	Auto Tune
1.14	11	8.9											
21.1 Image: Control of Line of the control of the												and a Managements	
31.1 1 CF Step 20.000 kHz 41.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 61.1 1 1 7 1 1 8 1 1 9 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 1 10 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>. But Della Carta a Carta</td><td>-13.00 dBm</td><td></td></t<>											. But Della Carta a Carta	-13.00 dBm	
41.1 Image: Content 1.710000 GHz #VBW 1.2 MHz* #Sweep 200.0 ms (1001 pts)			∳ ¹			tennensesseterder Vor	لوريول مردر بالمحول المدر	nyapatro pisabitir -	and the second second	sind for the			200.000 kHz
-61.1 -61.1 Center 1.710000 GHz #Res BW 390 kHz #VBW 1.2 MHz* #Sweep 200.0 ms (1001 pts)													Freq Offset
#Res BW 390 kHz #VBW 1.2 MHz* #Sweep 200.0 ms (1001 pts)													0 Hz
MSG STATUS	#F	Res			1	#VBW	1.2 MHz	•	#5				

LXI	RL		- Swept SA 50 Ω AC 5000000 Q		SE	NSE:INT		03:49:32 PM	1 Sep 26, 2019	Frequency
10	dB/div	Ref Offse Ref 28.	t 8.79 dB	PNO: Fast ↔ IFGain:Low	- Trig: Fre #Atten: 3	e Run 0 dB	Avg Type Avg Hold	1.755 0	10 GHz 38 dBm	Auto Tune
18.										Center Freq 1.755000000 GHz
8.7		When Maller								Start Freq 1.754000000 GHz
-11.	2	- All and a second second	Martin Martin						-13.00 dBm	Stop Freq 1.756000000 GHz
-31.				an the second	**************************************	1		 · •		CF Step 200.000 kHz <u>Auto</u> Man
-41.										Freq Offset 0 Hz

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