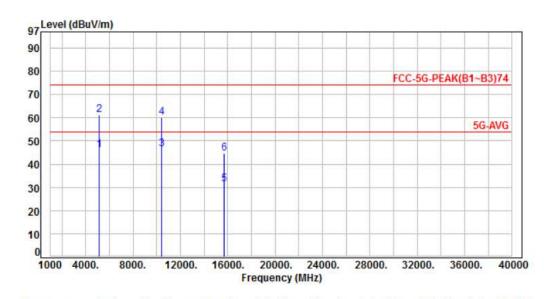


Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 4, CH44	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	58.97	46.26	54.00	-7.74	Average	291	144	Р
2	5150.00	-12.71	73.86	61.15	74.00	-12.85	Peak	291	144	P
3	10440.00	-7.43	53.81	46.38	54.00	-7.62	Average	100	216	P
4	10440.00	-7.43	67.49	60.06	74.00	-13.94	Peak	100	216	P
5	15660.00	-3.80	34.97	31.17	54.00	-22.83	Average	100	252	P
6	15660.00	-3.80	48.61	44.81	74.00	-29.19	Peak	100	252	P

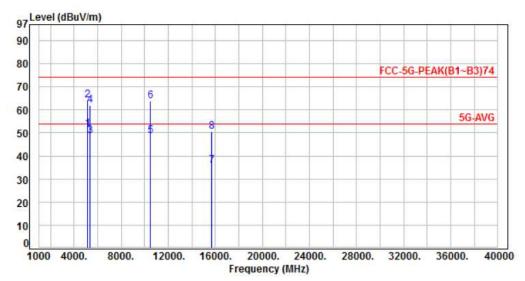
Factor=Antenna Factor + cable loss - Amplifier Factor

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FCC ID. : XU8TEW827DRUV2

Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH48	Temperature :	24°C
Test Date		lun 13 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	64.35	51.64	54.00	-2.36	Average	390	244	Р
2	5150.00	-12.71	76.83	64.12	74.00	-9.88	Peak	390	244	P
3	5350.00	-12.32	60.88	48.56	54.00	-5.44	Average	390	244	P
4	5350.00	-12.32	74.24	61.92	74.00	-12.08	Peak	390	244	P
5	10480.00	-7.42	55.98	48.56	54.00	-5.44	Average	104	48	P
6	10480.00	-7.42	71.16	63.74	74.00	-10.26	Peak	104	48	P
7	15720.00	-3.81	39.54	35.73	54.00	-18.27	Average	281	322	P
8	15720.00	-3.81	54.22	50.41	74.00	-23.59	Peak	281	322	P

Factor=Antenna Factor + cable loss - Amplifier Factor

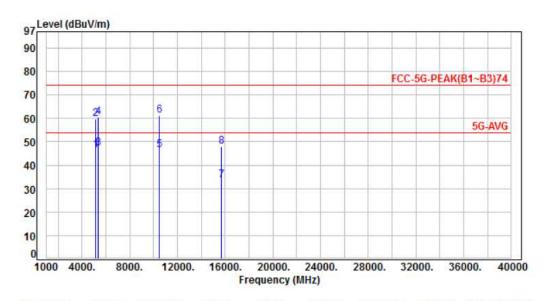
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FCC ID. : XU8TEW827DRUV2



Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 4, CH48	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



	(4547)	(dBuV)	(dBuV)	(dB)		(cm)	(deg)	
20 -12 71	50 15	45 44	54 00	.7 56	Average	201	122	Р
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		100000	1000		n	P
	59.36	47.04	54.00	-6.96			132	P
00 -12.32	72.88	60.56	74.00	-13.44	Peak	291	132	P
99 -7.42	53.90	46.48	54.00	-7.52	Average	116	220	P
30 -7.42	68.66	61.24	74.00	-12.76	Peak	116	220	P
00 -3.81	37.25	33.44	54.00	-20.56	Average	118	212	P
99 -3.81	51.77	47.96	74.00	-26.04	Peak	118	212	P
-	00 -12.71 00 -12.71 00 -12.32 00 -12.32 00 -7.42 00 -7.42 00 -3.81	00 -12.71 72.47 00 -12.32 59.36 00 -12.32 72.88 00 -7.42 53.90 00 -7.42 68.66 00 -3.81 37.25	00 -12.71 59.15 46.44 00 -12.71 72.47 59.76 00 -12.32 59.36 47.04 00 -12.32 72.88 60.56 00 -7.42 53.90 46.48 00 -7.42 68.66 61.24 00 -3.81 37.25 33.44	00 -12.71 59.15 46.44 54.00 00 -12.71 72.47 59.76 74.00 00 -12.32 59.36 47.04 54.00 00 -12.32 72.88 60.56 74.00 00 -7.42 53.90 46.48 54.00 00 -7.42 68.66 61.24 74.00 00 -3.81 37.25 33.44 54.00	00 -12.71 59.15 46.44 54.00 -7.56 00 -12.71 72.47 59.76 74.00 -14.24 00 -12.32 59.36 47.04 54.00 -6.96 00 -12.32 72.88 60.56 74.00 -13.44 00 -7.42 53.90 46.48 54.00 -7.52 00 -7.42 68.66 61.24 74.00 -12.76 00 -3.81 37.25 33.44 54.00 -20.56	00 -12.71 59.15 46.44 54.00 -7.56 Average 00 -12.71 72.47 59.76 74.00 -14.24 Peak 00 -12.32 59.36 47.04 54.00 -6.96 Average 00 -12.32 72.88 60.56 74.00 -13.44 Peak 00 -7.42 53.90 46.48 54.00 -7.52 Average 00 -7.42 68.66 61.24 74.00 -12.76 Peak 00 -3.81 37.25 33.44 54.00 -20.56 Average	00 -12.71 59.15 46.44 54.00 -7.56 Average 291 00 -12.71 72.47 59.76 74.00 -14.24 Peak 291 00 -12.32 59.36 47.04 54.00 -6.96 Average 291 00 -12.32 72.88 60.56 74.00 -13.44 Peak 291 00 -7.42 53.90 46.48 54.00 -7.52 Average 116 00 -7.42 68.66 61.24 74.00 -12.76 Peak 116 00 -3.81 37.25 33.44 54.00 -20.56 Average 118	00 -12.71 59.15 46.44 54.00 -7.56 Average 291 132 00 -12.71 72.47 59.76 74.00 -14.24 Peak 291 132 00 -12.32 59.36 47.04 54.00 -6.96 Average 291 132 00 -12.32 72.88 60.56 74.00 -13.44 Peak 291 132 00 -7.42 53.90 46.48 54.00 -7.52 Average 116 220 00 -7.42 68.66 61.24 74.00 -12.76 Peak 116 220 00 -3.81 37.25 33.44 54.00 -20.56 Average 118 212

Factor=Antenna Factor + cable loss - Amplifier Factor

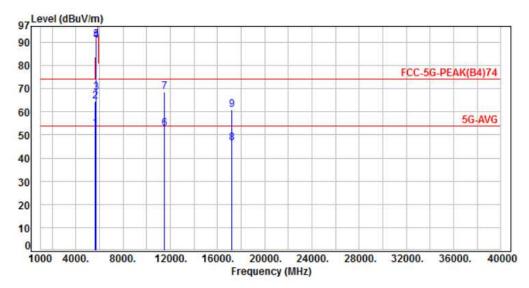
**CERPASS TECHNOLOGY CORP.** 

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FCC ID. : XU8TEW827DRUV2



Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH149	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	64.74	52.65	54.00	-1.35	Average	271	329	Р
2	5650.00	-12.09	76.62	64.53	74.00	-9.47	Peak	271	329	P
3	5700.00	-12.11	80.46	68.35	105.20	-36.85	Peak	271	329	P
4	5720.00	-12.12	103.02	90.90	110.80	-19.90	Peak	271	329	P
5	5725.00	-12.12	103.25	91.13	122.20	-31.07	Peak	271	329	P
6	11490.00	-6.25	59.11	52.86	54.00	-1.14	Average	100	276	P
7	11490.00	-6.25	74.73	68.48	74.00	-5.52	Peak	100	276	P
8	17235.00	1.48	45.11	46.59	54.00	-7.41	Average	284	341	P
9	17235.00	1.48	59.52	61.00	74.00	-13.00	Peak	284	341	P

Factor=Antenna Factor + cable loss - Amplifier Factor

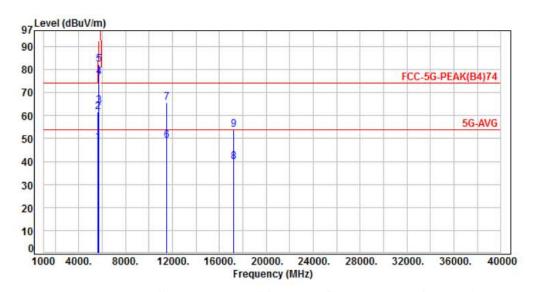
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FCC ID. : XU8TEW827DRUV2



Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode		Mode 4, CH149	Temperature :	24°C
Test Date		Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
	(7112)			(ubuv)	(0500)			·	(ueg)	
1	5650.00	-12.09	60.50	48.41	54.00	-5.59	Average	100	307	Р
2	5650.00	-12.09	73.62	61.53	74.00	-12.47	Peak	100	307	P
3	5700.00	-12.11	76.46	64.35	105.20	-40.85	Peak	100	307	P
4	5720.00	-12.12	88.99	76.87	110.80	-33.93	Peak	100	307	P
5	5725.00	-12.12	94.42	82.30	122.20	-39.90	Peak	100	307	P
6	11490.00	-6.25	55.31	49.06	54.00	-4.94	Average	100	166	P
7	11490.00	-6.25	71.97	65.72	74.00	-8.28	Peak	100	166	P
8	17235.00	1.48	38.40	39.88	54.00	-14.12	Average	284	179	P
9	17235.00	1.48	52.37	53.85	74.00	-20.15	Peak	284	179	P

Factor=Antenna Factor + cable loss - Amplifier Factor

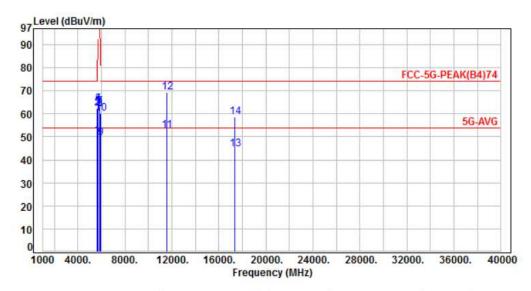
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Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH157	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	62.68	50.59	54.00	-3.41	Average	259	341	P
2	5650.00	-12.09	74.44	62.35	74.00	-11.65	Peak	259	341	P
3	5700.00	-12.11	74.99	62.88	105.20	-42.32	Peak	259	341	P
4	5720.00	-12.12	76.16	64.04	110.80	-46.76	Peak	259	341	P
5	5725.00	-12.12	76.29	64.17	122.20	-58.03	Peak	259	341	P
6	5850.00	-12.16	74.55	62.39	122.20	-59.81	Peak	247	313	P
7	5855.00	-12.16	75.05	62.89	110.80	-47.91	Peak	247	313	P
8	5875.00	-12.17	74.11	61.94	105.20	-43.26	Peak	247	313	P
9	5925.00	-12.18	61.53	49.35	54.00	-4.65	Average	247	313	P
10	5925.00	-12.18	72.33	60.15	74.00	-13.85	Peak	247	313	P
11	11570.00	-6.23	58.98	52.75	54.00	-1.25	Average	100	276	P
12	11570.00	-6.23	75.73	69.50	74.00	-4.50	Peak	100	276	P
13	17355.00	2.11	42.39	44.50	54.00	-9.50	Average	224	289	P
14	17355.00	2.11	56.43	58.54	74.00	-15.46	Peak	224	289	P

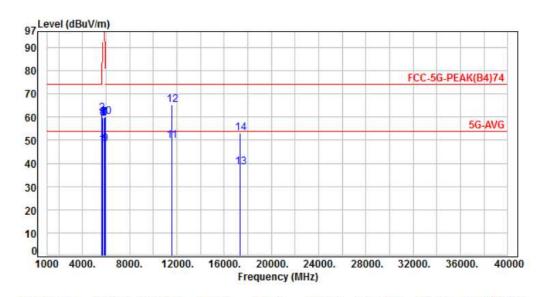
Factor=Antenna Factor + cable loss - Amplifier Factor

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FCC ID. : XU8TEW827DRUV2



Power:AC 120VPol/Phase:HORIZONTALTest Mode:Mode 4, CH157Temperature:24°CTest Date:Jun. 13, 2017Humidity:66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	59.97	47.88	54.00	-6.12	Average	100	314	P
2	5650.00	-12.09	73.71	61.62	74.00	-12.38	Peak	100	314	P
3	5700.00	-12.11	71.89	59.78	105.20	-45.42	Peak	100	314	P
4	5720.00	-12.12	72.03	59.91	110.80	-50.89	Peak	100	314	P
5	5725.00	-12.12	71.51	59.39	122.20	-62.81	Peak	100	314	P
6	5850.00	-12.16	71.46	59.30	122.20	-62.90	Peak	100	314	P
7	5855.00	-12.16	71.97	59.81	110.80	-50.99	Peak	100	314	P
8	5875.00	-12.17	72.00	59.83	105.20	-45.37	Peak	100	314	P
9	5925.00	-12.18	60.49	48.31	54.00	-5.69	Average	100	314	P
10	5925.00	-12.18	72.43	60.25	74.00	-13.75	Peak	100	314	P
11	11570.00	-6.23	55.89	49.66	54.00	-4.34	Average	100	169	P
12	11570.00	-6.23	71.66	65.43	74.00	-8.57	Peak	100	169	P
13	17355.00	2.11	36.17	38.28	54.00	-15.72	Average	271	193	P
14	17355.00	2.11	50.88	52.99	74.00	-21.01	Peak	271	193	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

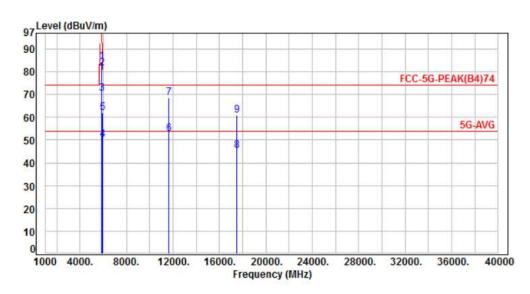
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FCC ID. : XU8TEW827DRUV2



Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH165	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
•	5850.00	-12.16	96.60	84.44	122.20	-37.76	Donle	251	358	
1			- To			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Peak	251		P
2	5855.00	-12.16	93.74	81.58	110.80	-29.22	Peak	251	358	P
3	5875.00	-12.17	82.55	70.38	105.20	-34.82	Peak	251	358	P
4	5925.00	-12.18	62.42	50.24	54.00	-3.76	Average	251	358	P
5	5925.00	-12.18	74.08	61.90	74.00	-12.10	Peak	251	358	P
6	11650.00	-6.21	58.99	52.78	54.00	-1.22	Average	110	277	P
7	11650.00	-6.21	74.75	68.54	74.00	-5.46	Peak	110	277	P
8	17475.00	2.74	42.79	45.53	54.00	-8.47	Average	304	189	P
9	17475.00	2.74	58.23	60.97	74.00	-13.03	Peak	304	187	P
9	17475.00	2.74	58.23	60.97	74.00	-13.03	Peak	304	187	

Factor=Antenna Factor + cable loss - Amplifier Factor

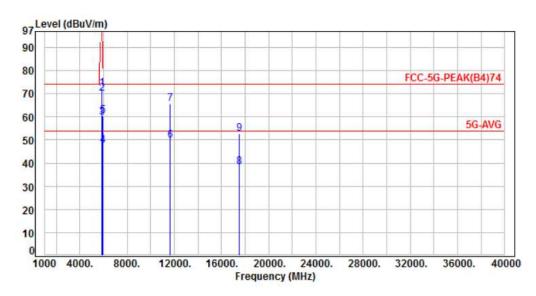
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Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 4, CH165	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-12.16	84.41	72.25	122.20	-49.95	Peak	100	308	Р
2	5855.00	-12.16	82.17	70.01	110.80	-40.79	Peak	100	308	P
3	5875.00	-12.17	72.02	59.85	105.20	-45.35	Peak	100	308	P
4	5925.00	-12.18	59.93	47.75	54.00	-6.25	Average	100	308	P
5	5925.00	-12.18	72.70	60.52	74.00	-13.48	Peak	100	308	P
6	11650.00	-6.21	55.89	49.68	54.00	-4.32	Average	100	162	P
7	11650.00	-6.21	71.93	65.72	74.00	-8.28	Peak	100	162	P
8	17475.00	2.74	35.67	38.41	54.00	-15.59	Average	287	194	P
9	17475.00	2.74	50.10	52.84	74.00	-21.16	Peak	287	194	P

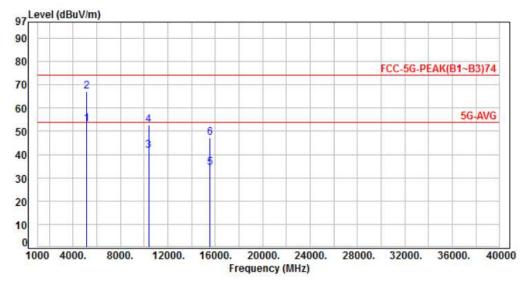
Factor=Antenna Factor + cable loss - Amplifier Factor

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FCC ID. : XU8TEW827DRUV2

Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 5, CH38	Temperature :	24°C
Test Date		Jun 13 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	65.93	53.22	54.00	-0.78	Average	391	177	Р
2	5150.00	-12.71	79.78	67.07	74.00	-6.93	Peak	391	177	P
3	10380.00	-7.43	49.17	41.74	54.00	-12.26	Average	100	82	P
4	10380.00	-7.43	60.31	52.88	74.00	-21.12	Peak	100	82	P
5	15570.00	-3.78	38.25	34.47	54.00	-19.53	Average	100	341	P
6	15570.00	-3.78	51.16	47.38	74.00	-26.62	Peak	100	341	P

Factor=Antenna Factor + cable loss - Amplifier Factor

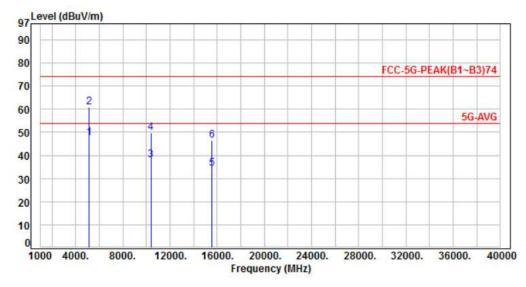
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Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 5, CH38	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	60.33	47.62	54.00	-6.38	Average	256	112	Р
2	5150.00	-12.71	73.47	60.76	74.00	-13.24	Peak	256	112	P
3	10380.00	-7.43	45.30	37.87	54.00	-16.13	Average	100	218	P
4	10380.00	-7.43	57.40	49.97	74.00	-24.03	Peak	100	218	P
5	15570.00	-3.78	37.91	34.13	54.00	-19.87	Average	104	251	P
6	15570.00	-3.78	50.16	46.38	74.00	-27.62	Peak	104	251	P

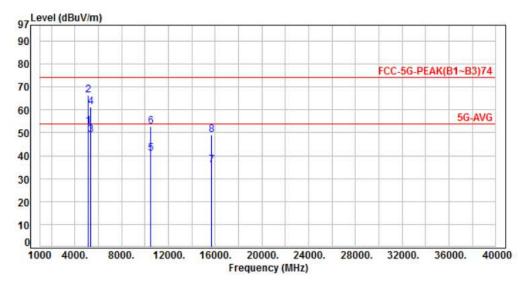
Factor=Antenna Factor + cable loss - Amplifier Factor

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FCC ID. : XU8TEW827DRUV2

Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 5, CH46	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	65.62	52.91	54.00	-1.09	Average	400	227	Р
2	5150.00	-12.71	79.02	66.31	74.00	-7.69	Peak	400	227	P
3	5350.00	-12.32	61.31	48.99	54.00	-5.01	Average	400	227	P
4	5350.00	-12.32	73.56	61.24	74.00	-12.76	Peak	400	227	P
5	10460.00	-7.42	48.51	41.09	54.00	-12.91	Average	100	83	P
6	10460.00	-7.42	60.11	52.69	74.00	-21.31	Peak	100	83	P
7	15690.00	-3.81	39.53	35.72	54.00	-18.28	Average	100	340	P
8	15690.00	-3.81	53.02	49.21	74.00	-24.79	Peak	100	340	P

Factor=Antenna Factor + cable loss - Amplifier Factor

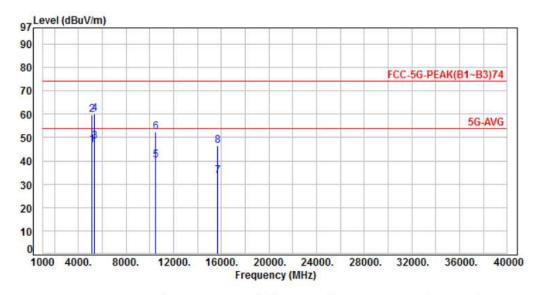
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FCC ID. : XU8TEW827DRUV2



Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 5, CH46	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	59.69	46.98	54.00	-7.02	Average	303	137	P
2	5150.00	-12.71	72.45	59.74	74.00	-14.26	Peak	303	137	P
3	5350.00	-12.32	60.56	48.24	54.00	-5.76	Average	303	137	P
4	5350.00	-12.32	72.58	60.26	74.00	-13.74	Peak	303	137	P
5	10460.00	-7.42	47.71	40.29	54.00	-13.71	Average	100	215	P
6	10460.00	-7.42	59.95	52.53	74.00	-21.47	Peak	100	215	P
7	15690.00	-3.81	37.24	33.43	54.00	-20.57	Average	100	221	P
8	15690.00	-3.81	50.41	46.60	74.00	-27.40	Peak	100	221	P

Factor=Antenna Factor + cable loss - Amplifier Factor

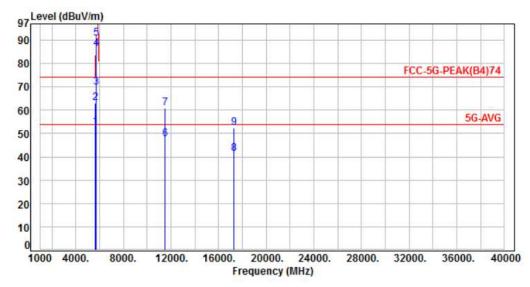
**CERPASS TECHNOLOGY CORP.** 

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Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 5, CH151	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	64.69	52.60	54.00	-1.40	Average	286	183	P
2	5650.00	-12.09	75.18	63.09	74.00	-10.91	Peak	286	183	Р
3	5700.00	-12.11	81.76	69.65	105.20	-35.55	Peak	286	183	P
4	5720.00	-12.12	98.40	86.28	110.80	-24.52	Peak	286	183	P
5	5725.00	-12.12	102.85	90.73	122.20	-31.47	Peak	286	183	P
6	11510.00	-6.26	53.85	47.59	54.00	-6.41	Average	105	191	P
7	11510.00	-6.26	67.01	60.75	74.00	-13.25	Peak	105	191	P
8	17265.00	1.65	39.57	41.22	54.00	-12.78	Average	271	216	P
9	17265.00	1.65	50.56	52.21	74.00	-21.79	Peak	271	216	P

Factor=Antenna Factor + cable loss - Amplifier Factor

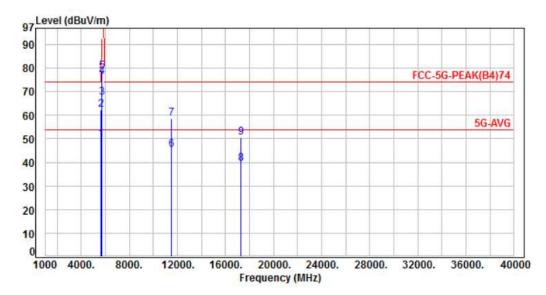
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FCC ID. : XU8TEW827DRUV2



Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 5, CH151	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	61.90	49.81	54.00	-4.19	Average	100	308	Р
2	5650.00	-12.09	74.44	62.35	74.00	-11.65	Peak	100	308	P
3	5700.00	-12.11	79.44	67.33	105.20	-37.87	Peak	100	308	P
4	5720.00	-12.12	88.32	76.20	110.80	-34.60	Peak	100	308	P
5	5725.00	-12.12	90.75	78.63	122.20	-43.57	Peak	100	308	P
6	11510.00	-6.26	51.49	45.23	54.00	-8.77	Average	114	163	P
7	11510.00	-6.26	64.86	58.60	74.00	-15.40	Peak	114	163	P
8	17265.00	1.65	37.65	39.30	54.00	-14.70	Average	268	177	P
9	17265.00	1.65	48.90	50.55	74.00	-23.45	Peak	268	177	P

Factor=Antenna Factor + cable loss - Amplifier Factor

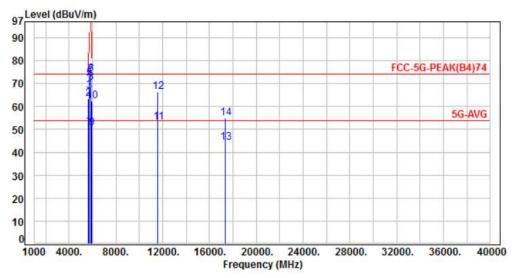
**CERPASS TECHNOLOGY CORP.** 

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Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 5, CH159	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	63.52	51.43	54.00	-2.57	Average	279	166	P
2	5650.00	-12.09	75.70	63.61	74.00	-10.39	Peak	279	166	P
3	5700.00	-12.11	78.72	66.61	105.20	-38.59	Peak	279	166	P
4	5720.00	-12.12	83.63	71.51	110.80	-39.29	Peak	279	166	P
5	5725.00	-12.12	84.50	72.38	122.20	-49.82	Peak	279	166	P
6	5850.00	-12.16	86.44	74.28	122.20	-47.92	Peak	277	203	P
7	5855.00	-12.16	85.82	73.66	110.80	-37.14	Peak	277	203	P
8	5875.00	-12.17	82.50	70.33	105.20	-34.87	Peak	277	203	P
9	5925.00	-12.18	62.89	50.71	54.00	-3.29	Average	277	203	P
10	5925.00	-12.18	74.67	62.49	74.00	-11.51	Peak	277	203	P
11	11590.00	-6.23	59.52	53.29	54.00	-0.71	Average	107	188	P
12	11590.00	-6.23	72.67	66.44	74.00	-7.56	Peak	107	188	P
13	17385.00	2.26	41.86	44.12	54.00	-9.88	Average	274	224	P
14	17385.00	2.26	52.61	54.87	74.00	-19.13	Peak	274	224	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

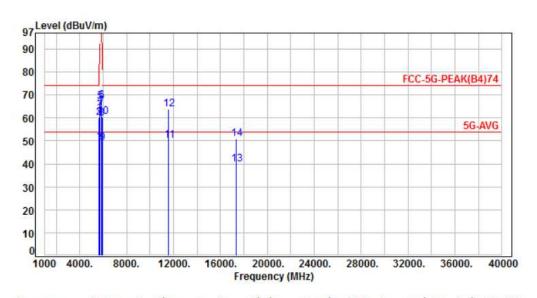
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Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode		Mode 5, CH159	Temperature :	24°C
Test Date		Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	61.43	49.34	54.00	-4.66	Average	100	312	P
2	5650.00	-12.09	72.14	60.05	74.00	-13.95	Peak	100	312	P
3	5700.00	-12.11	73.54	61.43	105.20	-43.77	Peak	100	312	P
4	5720.00	-12.12	77.27	65.15	110.80	-45.65	Peak	100	312	P
5	5725.00	-12.12	79.12	67.00	122.20	-55.20	Peak	100	312	P
6	5850.00	-12.16	79.62	67.46	122.20	-54.74	Peak	100	312	P
7	5855.00	-12.16	77.25	65.09	110.80	-45.71	Peak	100	312	P
8	5875.00	-12.17	72.02	59.85	105.20	-45.35	Peak	100	312	P
9	5925.00	-12.18	61.26	49.08	54.00	-4.92	Average	100	312	P
10	5925.00	-12.18	72.81	60.63	74.00	-13.37	Peak	100	312	P
11	11590.00	-6.23	56.31	50.08	54.00	-3.92	Average	116	166	P
12	11590.00	-6.23	70.06	63.83	74.00	-10.17	Peak	116	166	P
13	17385.00	2.26	37.44	39.70	54.00	-14.30	Average	273	185	P
14	17385.00	2.26	48.61	50.87	74.00	-23.13	Peak	273	185	P

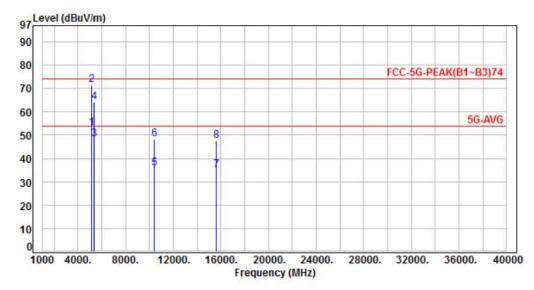
Factor=Antenna Factor + cable loss - Amplifier Factor

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FCC ID. : XU8TEW827DRUV2

Power	:	AC 120V	Pol/Phase :	:	VERTICAL
Test Mode	:	Mode 6, CH42	Temperature :	:	24°C
Test Date	•	Jun. 13. 2017	Humidity :	•	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-12.71	65.97	53.26	54.00	-0.74	Average	383	179	P
2	5150.00	-12.71	84.28	71.57	74.00	-2.43	Peak	383	179	P
3	5350.00	-12.32	60.58	48.26	54.00	-5.74	Average	383	179	P
4	5350.00	-12.32	76.64	64.32	74.00	-9.68	Peak	383	179	P
5	10420.00	-7.44	43.35	35.91	54.00	-18.09	Average	100	102	P
6	10420.00	-7.44	55.61	48.17	74.00	-25.83	Peak	100	102	P
7	15630.00	-3.80	38.97	35.17	54.00	-18.83	Average	100	347	P
8	15630.00	-3.80	51.40	47.60	74.00	-26.40	Peak	100	347	P

Factor=Antenna Factor + cable loss - Amplifier Factor

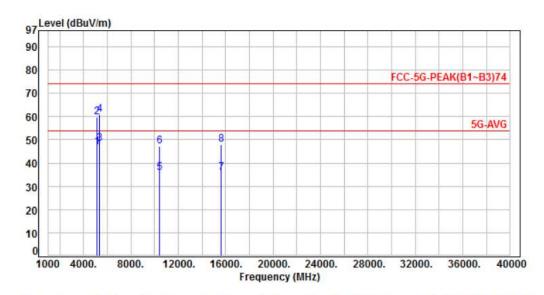
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Power	 AC 120V	Pol/Phase :	HORIZONTAL
Test Mode	 Mode 6, CH42	Temperature :	24°C
Test Date	 Jun. 13, 2017	Humidity :	66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
	F1F0 00	10.71	50.30	46.67	F4 00	7 22		154	220	
1	5150.00	-12.71	59.38	46.67	54.00	-7.33	Average	154	320	Р
2	5150.00	-12.71	72.52	59.81	74.00	-14.19	Peak	154	320	P
3	5350.00	-12.32	60.63	48.31	54.00	-5.69	Average	154	320	P
4	5350.00	-12.32	73.17	60.85	74.00	-13.15	Peak	154	320	P
5	10420.00	-7.44	43.32	35.88	54.00	-18.12	Average	100	212	P
6	10420.00	-7.44	54.67	47.23	74.00	-26.77	Peak	100	212	P
7	15630.00	-3.80	39.62	35.82	54.00	-18.18	Average	105	244	P
8	15630.00	-3.80	51.83	48.03	74.00	-25.97	Peak	105	244	Р

Factor=Antenna Factor + cable loss - Amplifier Factor

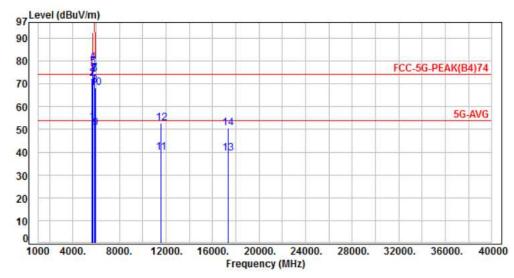
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Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 6, CH155	Temperature :	24°C
Test Date	:	Jun. 13, 2017	Humidity :	66%



	Frequency	Factor	Reading	Level	Limit	Margin	Detector	Height	Azimuth	P/F
No.	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)		(cm)	(deg)	
1	5650.00	-12.09	65.31	53.22	54.00	-0.78	Average	253	154	Р
2	5650.00	-12.09	84.20	72.11	74.00	-1.89	Peak	253	154	P
3	5700.00	-12.11	86.20	74.09	105.20	-31.11	Peak	253	154	P
4	5720.00	-12.12	91.42	79.30	110.80	-31.50	Peak	253	154	P
5	5725.00	-12.12	89.44	77.32	122.20	-44.88	Peak	253	154	P
6	5850.00	-12.16	86.39	74.23	122.20	-47.97	Peak	241	45	P
7	5855.00	-12.16	86.68	74.52	110.80	-36.28	Peak	241	45	P
8	5875.00	-12.17	81.51	69.34	105.20	-35.86	Peak	241	45	P
9	5925.00	-12.18	62.86	50.68	54.00	-3.32	Average	241	45	P
10	5925.00	-12.18	80.35	68.17	74.00	-5.83	Peak	241	45	P
11	11550.00	-6.24	45.93	39.69	54.00	-14.31	Average	109	186	P
12	11550.00	-6.24	59.05	52.81	74.00	-21.19	Peak	109	186	P
13	17325.00	1.96	37.49	39.45	54.00	-14.55	Average	271	218	P
14	17325.00	1.96	48.71	50.67	74.00	-23.33	Peak	271	218	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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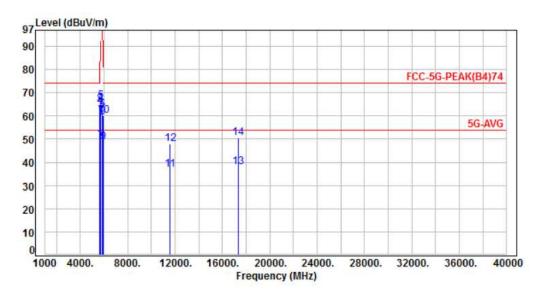
FCC ID. : XU8TEW827DRUV2



Power : AC 120V Pol/Phase : HORIZONTAL

Test Mode : Mode 6, CH155 Temperature : 24°C

Test Date : Jun. 13, 2017 Humidity : 66%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-12.09	61.94	49.85	54.00	-4.15	Average	100	311	Р
2	5650.00	-12.09	76.90	64.81	74.00	-9.19	Peak	100	311	P
3	5700.00	-12.11	74.94	62.83	105.20	-42.37	Peak	100	311	P
4	5720.00	-12.12	77.30	65.18	110.80	-45.62	Peak	100	311	P
5	5725.00	-12.12	78.32	66.20	122.20	-56.00	Peak	100	311	P
6	5850.00	-12.16	74.82	62.66	122.20	-59.54	Peak	100	311	P
7	5855.00	-12.16	73.11	60.95	110.80	-49.85	Peak	100	311	P
8	5875.00	-12.17	71.60	59.43	105.20	-45.77	Peak	100	311	P
9	5925.00	-12.18	60.89	48.71	54.00	-5.29	Average	100	311	P
10	5925.00	-12.18	72.16	59.98	74.00	-14.02	Peak	100	311	P
11	11550.00	-6.24	42.95	36.71	54.00	-17.29	Average	112	173	Р
12	11550.00	-6.24	54.34	48.10	74.00	-25.90	Peak	112	173	P
13	17325.00	1.96	36.15	38.11	54.00	-15.89	Average	268	179	P
14	17325.00	1.96	48.50	50.46	74.00	-23.54	Peak	268	179	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

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# 6.7. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 - 25.67000	1300.0 – 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 – 4.20775	73.00000 - 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 - 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 - 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 – 24.000
12.29000 - 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 – 13.41000			

<sup>\*\*:</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

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# 7. On Time, Duty Cycle and Measurement methods

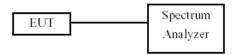
### 7.1. Test Limit

None; for reporting purposes only.

### 7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

# 7.3. Test Setup Layout



#### 7.4. Test Result and Data

Temperature: 23°C Humidity: 61%

Test Date: Jul. 27, 2017

Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)	1/T Minimum VBW(Hz)	Duty Cycle correction Factor (dB)
802.11a	1.42	1.73	82.08%	704.23	0.86
802.11ac VHT20	0.38	0.70	54.55%	2604.17	2.63
802.11ac VHT40	0.22	0.55	40.15%	4545.45	3.96
802.11ac VHT80	0.14	0.46	29.82%	7352.94	5.25

### 7.5. Measurement Methods

26 dB and 6dB Emission BW	KDB 789033 D02 v01, Section C
99% Occupied BW	KDB 789033 D02 v01, Section D
Conducted Output Power	KDB 789033 D02 v01, Section E.2.d and E.3.b
Conducted Output Fower	(Method PM-G)
Power Spectral Density	KDB 789033 D02 v01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v01, Sections G and H

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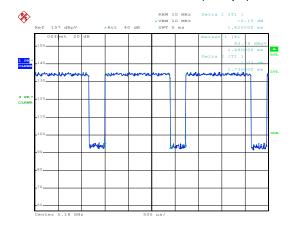
FCC ID. : XU8TEW827DRUV2



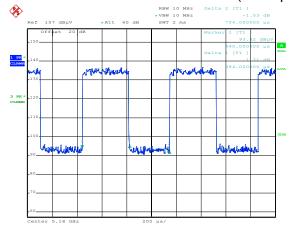
# **CERPASS TECHNOLOGY CORP.**

# Report No.: TEFE1704172

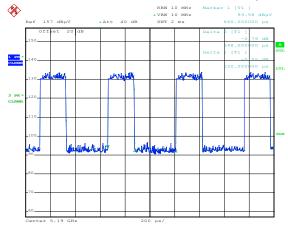
### Modulation Standard: 802.11a (6Mbps)



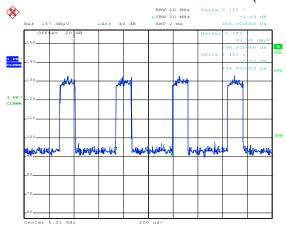
### Modulation Standard: 802.11ac VHT20 (6.5Mbps)



### Modulation Standard: 802.11ac VHT40 (13.5Mbps)



### Modulation Standard: 802.11ac VHT80 (29.3Mbps)



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### 8. 6dB Bandwidth

### 8.1. Test Limit

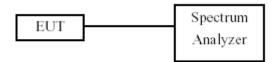
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

#### 8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to100KHz, the VBW >= 3 x RBW, peak detector and max hold.

### 8.3. Test Setup Layout



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### 8.4. Test Result and Data

Temperature: 23°C Humidity: 61%

Test Date: Jul. 27, 2017

### In the 5.8G Band

Modulation Type	Channel	Frequency	6	Minimum			
Modulation Type	Chame	(MHz)	ANT 0	ANT 1	ANT 2	ANT 3	Limit (MHz)
	149	5745	16.00	16.30	15.30	16.20	0.50
802.11a	157	5785	16.20	16.10	16.00	16.30	0.50
	165	5825	15.30	16.10	15.30	16.30	0.50
	149	5745	16.10	16.70	16.30	16.00	0.50
802.11ac VHT20	157	5785	16.10	17.00	16.80	16.00	0.50
	165	5825	16.20	16.90	16.90	16.20	0.50
802.11ac VHT40	155	5755	35.40	35.40	35.40	35.80	0.50
002.11ac VH140	159	5795	35.40	35.40	35.20	35.40	0.50
802.11ac VHT80	155	5775	75.52	75.52	75.52	75.20	0.50

CERPASS TECHNOLOGY CORP.

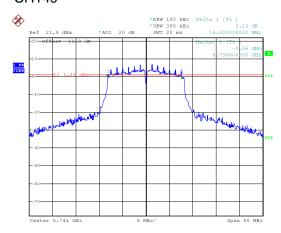
Issued date : Jul. 27, 2017
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FCC ID. : XU8TEW827DRUV2



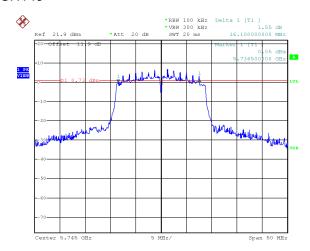
6dB Bandwidth ANT 0

Modulation Standard: 802.11a (6Mbps) CH149

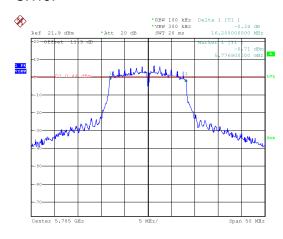


#### Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149

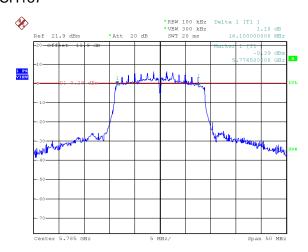
Report No.: TEFE1704172



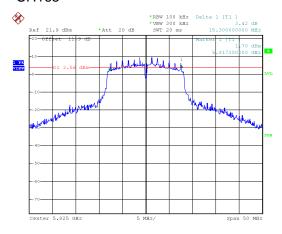
#### CH157



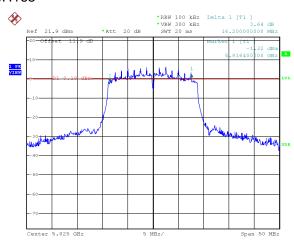
#### CH157



### CH165



### CH165



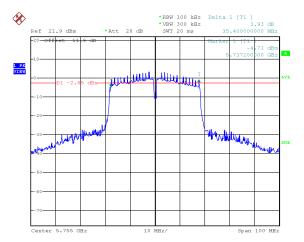
CERPASS TECHNOLOGY CORP.

Issued date : Jul. 27, 2017 Page No. : 100 of 147



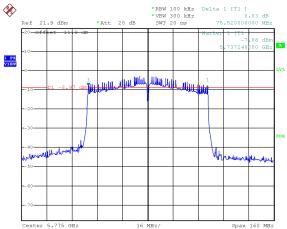
# **CERPASS TECHNOLOGY CORP.**

ANT 0 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

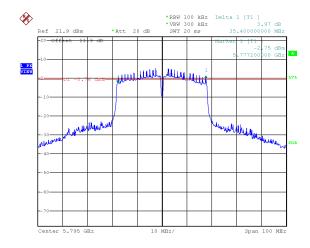


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



### CH159

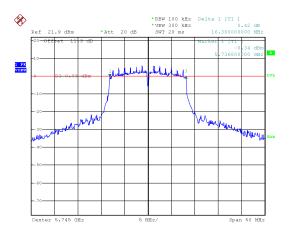


Issued date : Jul. 27, 2017
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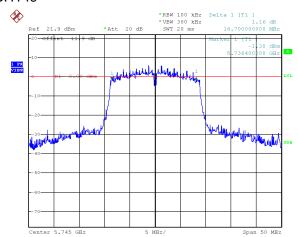
**CERPASS TECHNOLOGY CORP.** 

ANT 1 Modulation Standard: 802.11a (6Mbps)

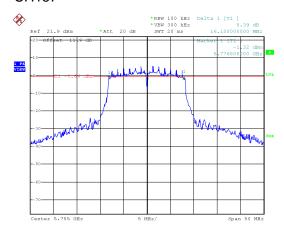


#### Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149

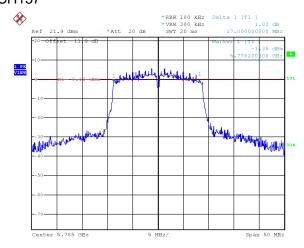
Report No.: TEFE1704172



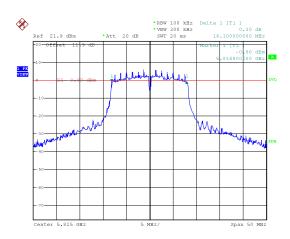
#### CH157



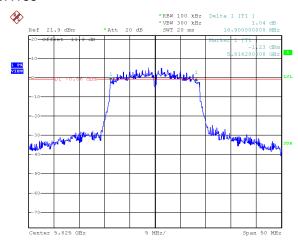
### CH157



#### CH165



#### CH165

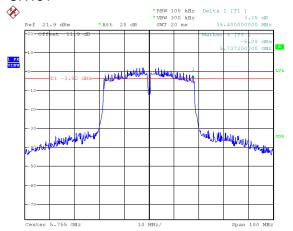


CERPASS TECHNOLOGY CORP. Issued date : Jul. 27, 2017 Page No. : 102 of 147



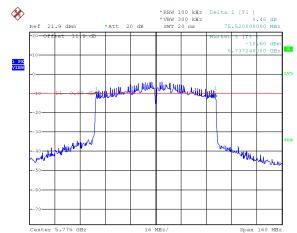
# **CERPASS TECHNOLOGY CORP.**

ANT 2 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

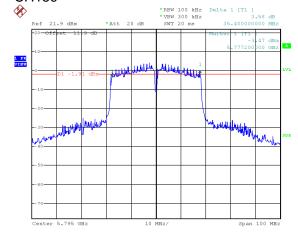


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



#### CH159

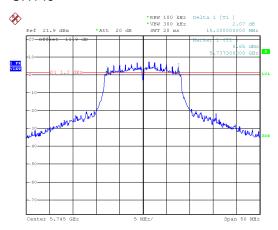


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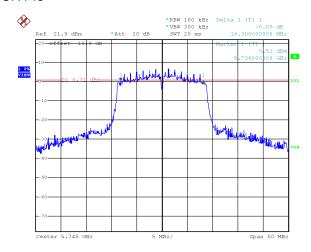


ANT 2 Modulation Standard: 802.11a (6Mbps) CH149

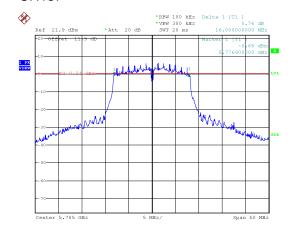


# Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149

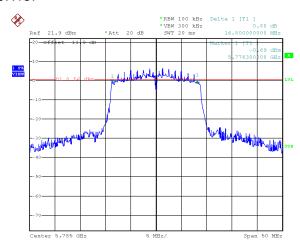
Report No.: TEFE1704172



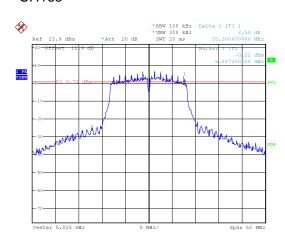
#### CH157



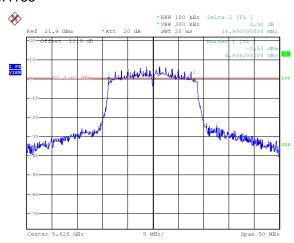
#### CH157



#### CH165



### CH165



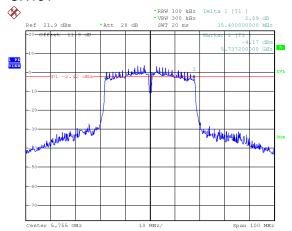
CERPASS TECHNOLOGY CORP.

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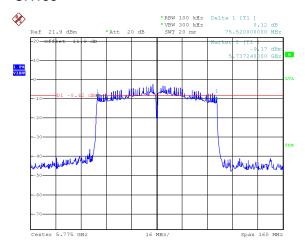
# **CERPASS TECHNOLOGY CORP.**

ANT 2 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

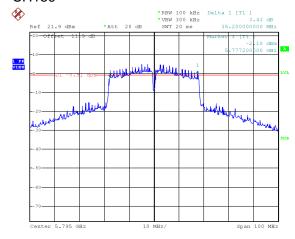


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



#### CH159

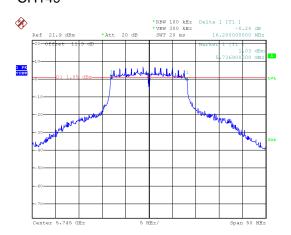


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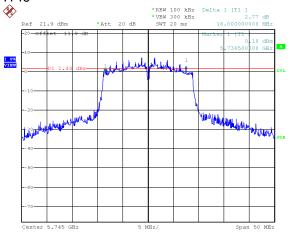


ANT 3 Modulation Standard: 802.11a (6Mbps)

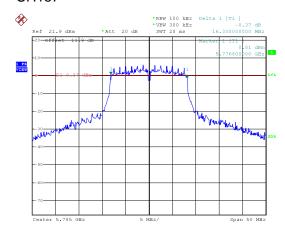


# Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149

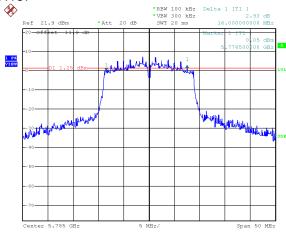
Report No.: TEFE1704172



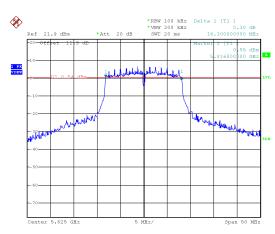
### CH157



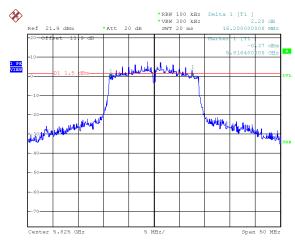
#### CH157



### CH165



### CH165



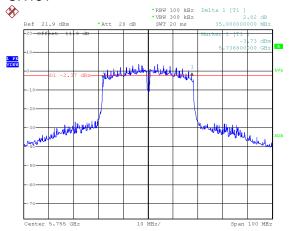
CERPASS TECHNOLOGY CORP.

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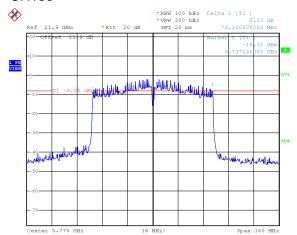
## **CERPASS TECHNOLOGY CORP.**

ANT 3 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

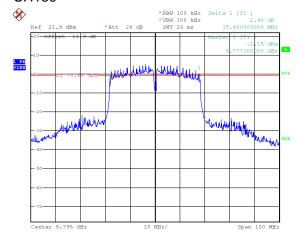


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



### CH159



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### 9. 26dB Bandwidth

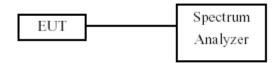
### 9.1. Test Limit

None; for reporting purposes only.

### 9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the  $VBW >= 3 \times RBW$ , peak detector and max hold.

### 9.3. Test Setup Layout



#### 9.4. Test Result and Data

Temperature: 23°C Humidity: 61%

Test Date: Jul. 27, 2017

#### In the 5.2G Band

Modulation Type	Channel	Frequency	26dB Bandwidth (MHz)				
Modulation Type	(MHz)		ANT 0	ANT 1	ANT 2	ANT 3	
	36	5180	20.10	20.30	20.05	20.10	
802.11a	44	5220	19.90	19.95	20.00	19.95	
	48	5240	19.80	19.95	19.70	20.40	
	36	5180	20.60	20.20	20.30	20.50	
802.11ac VHT20	44	5220	20.60	20.20	20.30	20.40	
	48	5240	20.50	20.10	20.30	20.40	
802.11ac VHT40	38	5190	41.60	41.60	41.40	41.60	
002.11aC VH140	46	5230	41.80	41.40	41.60	42.00	
802.11ac VHT80	42	5210	80.64	80.00	80.96	80.96	

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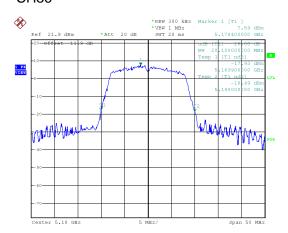
FCC ID. : XU8TEW827DRUV2



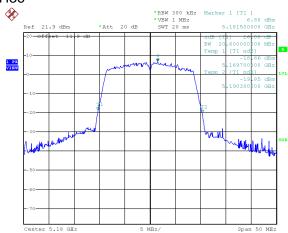
# CERPASS TECHNOLOGY CORP.

26dB Bandwidth ANT 0

Modulation Standard: 802.11a (6Mbps) CH36

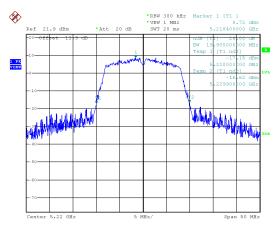


#### 802.11ac VHT20 (6.5Mbps) **CH36**

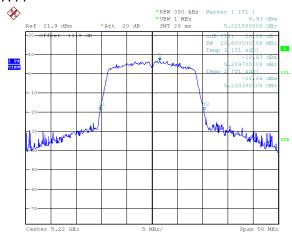


Report No.: TEFE1704172

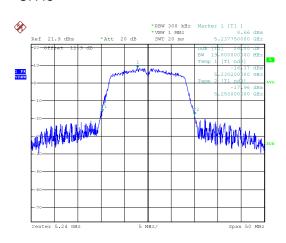
#### CH44



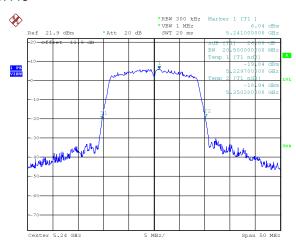
### CH44



#### CH48



#### CH48

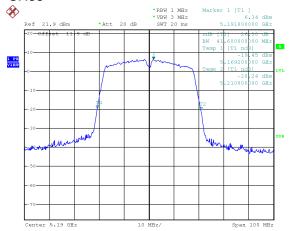


**CERPASS TECHNOLOGY CORP.** 

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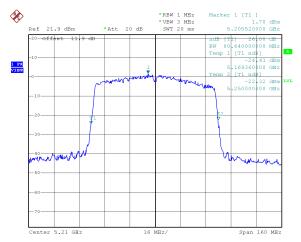


ANT 0 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38

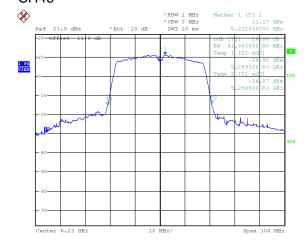


# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



#### CH46

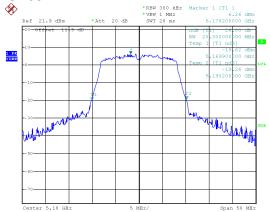


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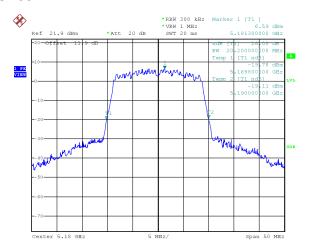




ANT 1 Modulation Standard: 802.11a (6Mbps) CH36

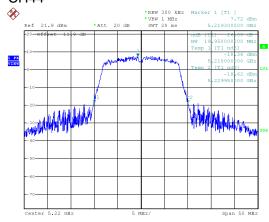


#### 802.11ac VHT20 (6.5Mbps) CH36

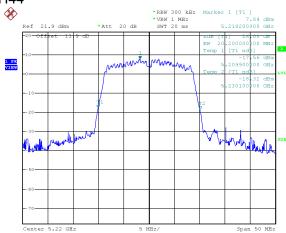


Report No.: TEFE1704172

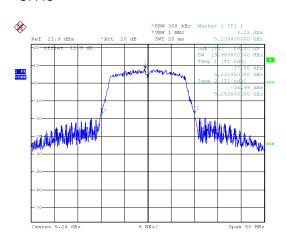
CH44



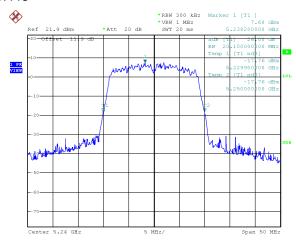
#### CH44



#### CH48



# CH48

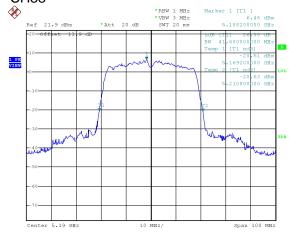


**CERPASS TECHNOLOGY CORP.** 

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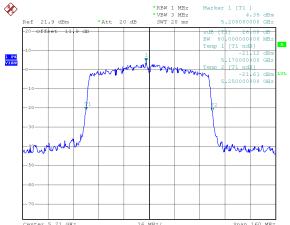


ANT 1 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38

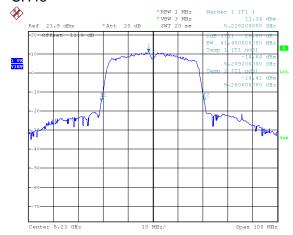


# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



# CH46

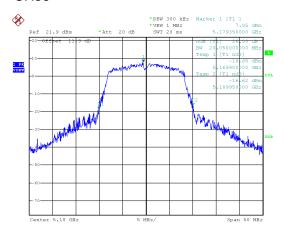


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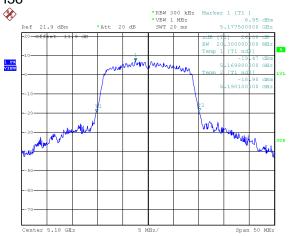


# RPASS TECHNOLOGY CORP. Report No.: TEFE1704172

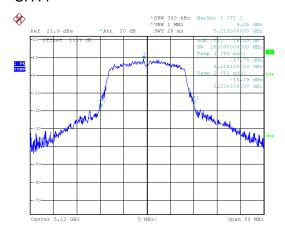
ANT 2 Modulation Standard: 802.11a (6Mbps) CH36



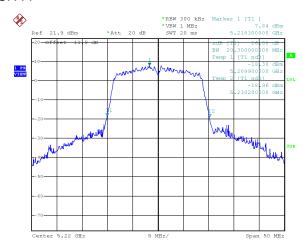
# 802.11ac VHT20 (6.5Mbps) CH36



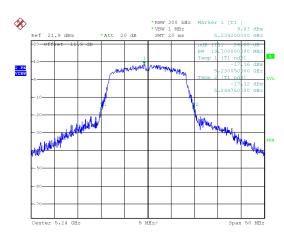
# CH44



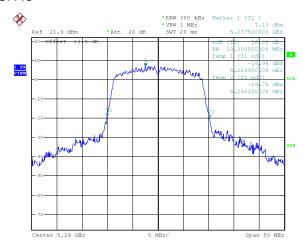
# CH44



#### CH48



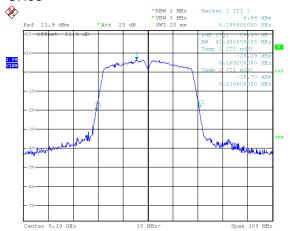
# CH48



CERPASS TECHNOLOGY CORP. Issued date : Jul. 27, 2017
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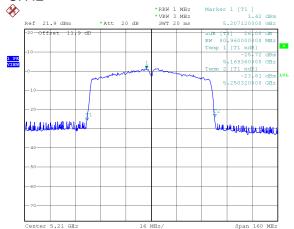


ANT 2 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38

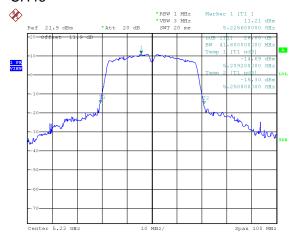


# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



# CH46

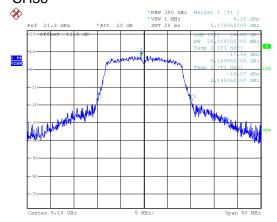


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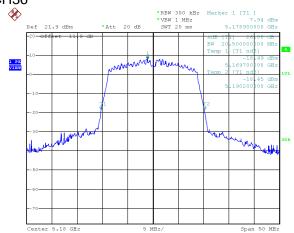




ANT 3 Modulation Standard: 802.11a (6Mbps) **CH36** 

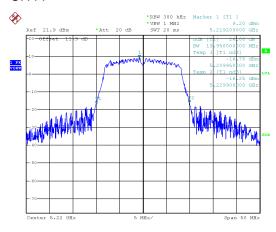


# 802.11ac VHT20 (6.5Mbps) CH36

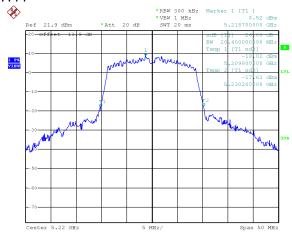


Report No.: TEFE1704172

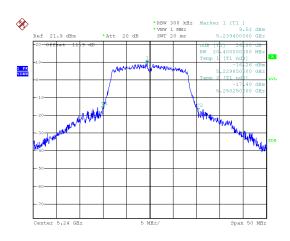
#### CH44



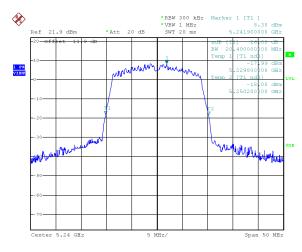
# CH44



# CH48



# CH48

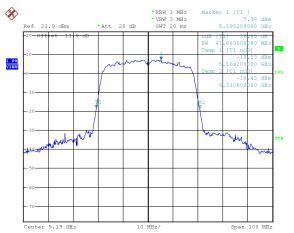


**CERPASS TECHNOLOGY CORP.** Issued date : Jul. 27, 2017

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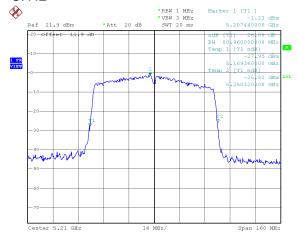


ANT 3 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38

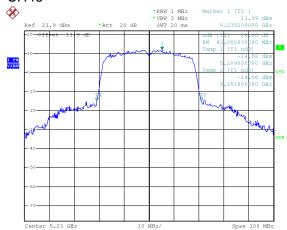


# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



# CH46



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# 10. Average Power

# 10.1.Test Limit

None; for reporting purposes only.

#### 10.2.Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

# 10.3.Test Setup Layout



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FCC ID. : XU8TEW827DRUV2

# 10.4. Test Result and Data

Temperature: 23°C Humidity: 61%

Test Date: Jul. 27, 2017

# **Non Beamforming**

# In the 5.2G Band

Modulation	СН	Freq.	Avg	Power C	utput (dB	m)	Total	Total	Power
Type	Сп	(MHz)	ANT 0	ANT 1	ANT 2	ANT 3	Power (dBm)	Power (mW)	Limit (dBm)
	36	5180	14.6	13.78	14.64	15.16	20.59	114.64	30.00
802.11a	44	5220	15.68	15.29	14.28	16.36	21.49	140.83	30.00
	48	5240	15.62	15.42	15.05	16.05	21.57	143.57	30.00
002 11 on	36	5180	14.09	13.21	13.92	14.48	19.97	99.30	30.00
802.11an HT20	44	5220	13.8	14.06	14.08	14.52	20.14	103.36	30.00
11120	48	5240	13.41	14.1	12.59	14.05	19.60	91.20	30.00
802.11an	38	5190	10.95	10.17	10.73	11.55	16.90	48.96	30.00
HT40	46	5230	15.33	14.5	15.1	15.85	21.24	133.12	30.00
000 1100	36	5180	14.11	13.25	13.94	14.49	19.99	99.79	30.00
802.11ac VHT20	44	5220	13.88	14.07	14.1	14.53	20.17	104.04	30.00
VIII20	48	5240	13.4	14.12	12.62	14.12	19.63	91.80	30.00
802.11ac	38	5190	10.94	10.19	10.75	11.57	16.91	49.10	30.00
VHT40	46	5230	15.34	14.54	15.13	15.84	21.26	133.60	30.00
802.11ac VHT80	42	5210	5.41	6.68	8.08	7.66	13.09	20.39	30.00

#### In the 5.8G Band

Modulation	СН	Freq.	Avg	Power O	utput (dB	m)	Total Power	Total Power	Power Limit
Туре		(MHz)	ANT 0	ANT 1	ANT 2	ANT 3	(dBm)	(mW)	(dBm)
	149	5745	18.03	16.99	18.15	17.85	23.80	239.80	30.00
802.11a	157	5785	17.11	16.68	17.44	17.25	23.15	206.51	30.00
	165	5825	17.06	16.45	17.35	17.45	23.12	204.89	30.00
	149	5745	17.46	16.4	17.78	17.49	23.33	215.45	30.00
802.11an HT20	157	5785	16.89	16.59	17.37	16.85	22.95	197.46	30.00
11120	165	5825	16.73	16.5	17.18	16.86	22.85	192.53	30.00
802.11an	151	5755	16.61	15.67	16.63	16.87	22.49	177.38	30.00
HT40	159	5795	18.08	17.18	17.84	18.4	23.92	246.50	30.00
000 44	149	5745	17.44	16.43	17.79	17.51	23.34	215.90	30.00
802.11ac VHT20	157	5785	16.93	16.6	17.35	16.88	22.97	198.10	30.00
V11120	165	5825	16.74	16.51	17.26	16.91	22.88	194.28	30.00
802.11ac	151	5755	16.65	15.69	16.7	16.76	22.49	177.50	30.00
VHT40	159	5795	18.09	17.23	17.96	18.42	23.97	249.28	30.00
802.11ac VHT80	155	5775	13.24	12.19	13.06	13.18	18.96	78.67	30.00

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# **Beamforming**

# In the 5.2G Band

Modulation Type	СН	Freq. (MHz)	Avg	Avg Power Output (dBm)				Total	Power
			ANT 0	ANT 1	ANT 2	ANT 3	Power (dBm)	Power (mW)	Limit (dBm)
000 44	36	5180	8.09	7.23	7.92	8.47	13.97	24.95	24.98
802.11ac VHT20	44	5220	7.86	8.05	8.08	8.51	14.15	26.01	24.98
VIIIZU	48	5240	7.38	8.1	6.6	8.1	13.61	22.95	24.98
802.11ac	38	5190	4.92	4.17	4.73	5.55	10.89	12.28	24.98
VHT40	46	5230	9.32	8.52	9.11	9.82	15.24	33.40	24.98
802.11ac VHT80	42	5210	-0.61	0.66	2.06	1.64	7.07	5.10	24.98

# In the 5.8G Band

Modulation	( 'H	Freq. (MHz)	Avg	Avg Power Output (dBm)				Total	Power Limit
Type			ANT 0	ANT 1	ANT 2	ANT 3	Power (dBm)	Power (mW)	(dBm)
802.11ac VHT20	149	5745	11.42	10.41	11.77	11.49	17.32	53.98	24.98
	157	5785	10.91	10.58	11.33	10.86	16.95	49.53	24.98
VIIIZO	165	5825	10.72	10.49	11.24	10.89	16.86	48.58	24.98
802.11ac	151	5755	10.63	9.67	10.68	10.74	16.47	44.38	24.98
VHT40	159	5795	12.07	11.21	11.94	12.4	17.95	62.33	24.98
802.11ac VHT80	155	5775	7.22	6.17	7.04	7.16	12.94	19.67	24.98

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# 11. Output Power and PPSD

# 11.1.Test Limit

**Output Power:** 

Frequency	Band	Limit
<b>S.15</b>	~5.25GHz	
Ope	rating Mode	
	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed125 mW (21 dBm).
	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
	Mobile and portable client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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,	
Frequency Band	Limit
5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6
5.470-5.725 GHz	dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
S.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted

# PSD:

P3D:							
Freq	luency	Band	Limit				
$\boxtimes$	5.15	~5.25GHz					
	Ope	rating Mode					
		Outdoor access point	17 dBm/MHz				
		Indoor access point	17 dBm/MHz				
		Fixed point-to-point access points	17 dBm/MHz				
		Mobile and portable client devices	11 dBm/MHz				
	5.72	5~5.85 GHz	11 dBm/MHz				
	5.47	0-5.725 GHz	11 dBm/MHz				
	5.72	5~5.85 GHz	30 dBm/500kHz				

power.

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#### 11.2.Test Procedure

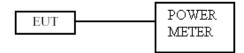
As an alternative to FCC KDB-789033, the EUT maximum conducted output power was Measured with an average power meter employing a video bandwidth greater than 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW≦40MHz) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep). When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

#### 11.3.Test Setup Layout



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# 11.4. Test Result and Data

Temperature: 23°C Humidity: 61%

Test Date: Jul. 27, 2017

#### In the 5.2G Band

Modulation	СН	Freq.	Meas PPSD (dBm/MHz)					
Type	СП	(MHz)	ANT 0	ANT 1	ANT 2	ANT 3		
	36	5180	4.68	2.40	4.01	4.00		
802.11a	44	5220	4.99	4.35	4.77	5.12		
	48	5240	5.07	4.70	4.85	5.20		
000.44	36	5180	3.70	2.21	2.83	3.65		
802.11ac VHT20	44	5220	2.66	2.99	3.12	3.73		
VIII20	48	5240	2.33	3.26	2.75	3.46		
802.11ac	38	5190	-4.06	-4.77	-4.07	-3.48		
VHT40	46	5230	0.57	0.14	0.48	1.25		
802.11ac VHT80	42	5210	-15.53	-14.45	-13.38	-14.32		

Modulation Type	СН	Freq. (MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
	36	5180	9.87	0.86	10.73	11.98
802.11a	44	5220	10.84	0.86	11.70	11.98
	48	5240	10.98	0.86	11.84	11.98
000 44	36	5180	9.16	2.63	11.79	11.98
802.11ac VHT20	44	5220	9.16	2.63	11.79	11.98
V11120	48	5240	8.99	2.63	11.62	11.98
802.11ac	38	5190	1.95	3.96	5.91	11.98
VHT40	46	5230	6.65	3.96	10.61	11.98
802.11ac VHT80	42	5210	-8.33	5.25	-3.08	11.98

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# In the 5.8G Band

Modulation	СН	Freq.	Meas PPSD (dBm/MHz)					
Type	Сп	(MHz)	ANT 0	ANT 1	ANT 2	ANT 3		
	149	5745	7.15	5.84	7.17	6.63		
802.11a	157	5785	5.93	5.51	6.70	6.20		
	165	5825	6.28	5.74	6.57	5.63		
000 44	149	5745	6.43	5.40	6.49	6.90		
802.11ac VHT20	157	5785	5.83	5.74	6.57	6.21		
V11120	165	5825	5.89	5.84	6.53	6.77		
802.11ac	155	5755	1.75	1.02	2.08	2.20		
VHT40	159	5795	3.45	2.57	3.22	3.97		
802.11ac VHT80	155	5775	-4.97	-6.22	-5.33	-4.89		

Modulation Type	СН	Freq. (MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KH z/RBW) CF (dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
	149	5745	12.75	0.86	-3.01	10.60	24.98
802.11a	157	5785	12.13	0.86	-3.01	9.98	24.98
	165	5825	12.09	0.86	-3.01	9.94	24.98
000.44	149	5745	12.36	2.63	-3.01	11.98	24.98
802.11ac VHT20	157	5785	12.12	2.63	-3.01	11.74	24.98
V11120	165	5825	12.30	2.63	-3.01	11.92	24.98
802.11ac	155	5755	7.81	3.96	-3.01	8.76	24.98
VHT40	159	5795	9.35	3.96	-3.01	10.30	24.98
802.11ac VHT80	155	5775	0.70	5.25	-3.01	2.94	24.98

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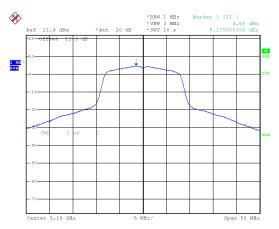
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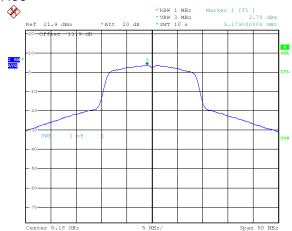


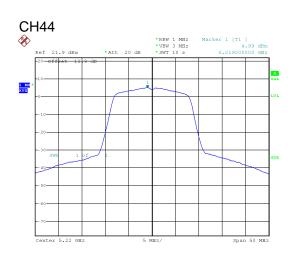
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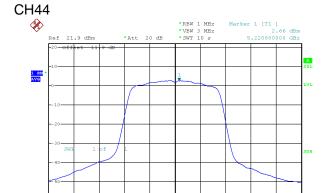
5.2G Band ANT 0 Modulation Standard: 802.11a (6Mbps) CH36



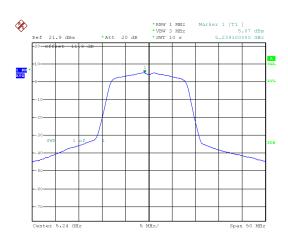
# Modulation Standard: 802.11ac VHT20 (6.5Mbps) **CH36**



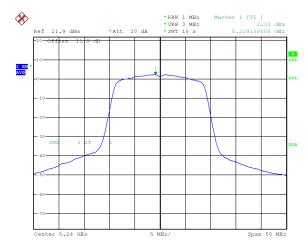




#### **CH48**



#### **CH48**



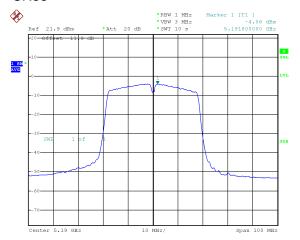
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CERPASS TECHNOLOGY CORP.



ANT 0 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38

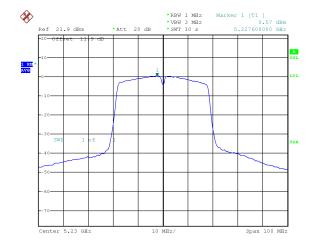


# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



# CH46

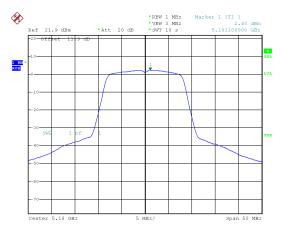


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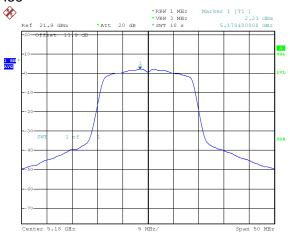
CERPASS 1

ANT 1 Modulation Standard: 802.11a (6Mbps) CH36

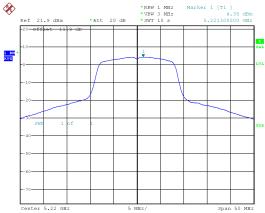


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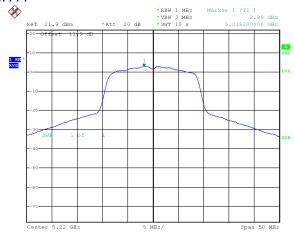
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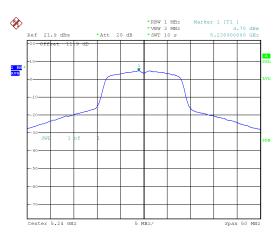




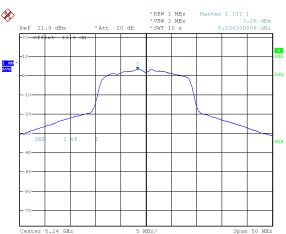
# CH44



# CH48



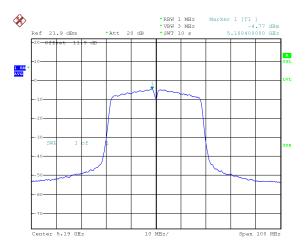
# CH48



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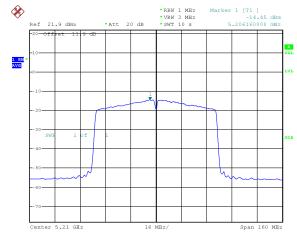


ANT 1 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38



# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



# CH46



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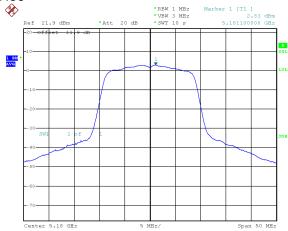
CERPASS TECHNOLOGY CORP.

ANT 2 Modulation Standard: 802.11a (6Mbps)



#### Modulation Standard: 802.11ac VHT20 (6.5Mbps) **CH36**

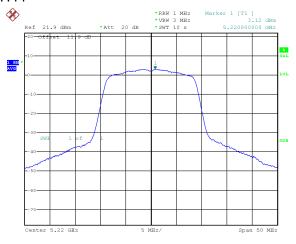
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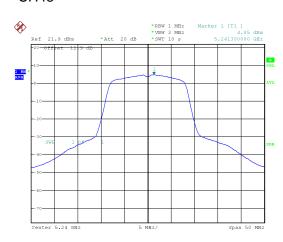
# CH44



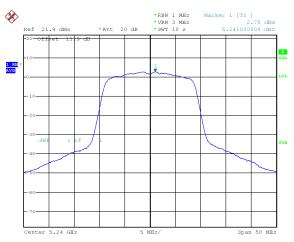
# CH44



# CH48



# CH48

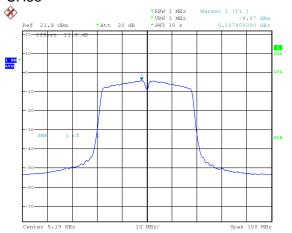


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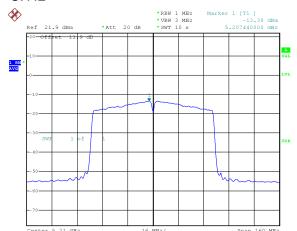


ANT 2 Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH38

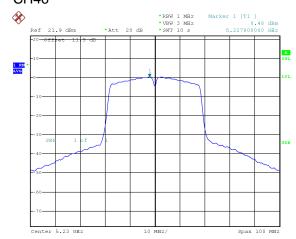


# Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



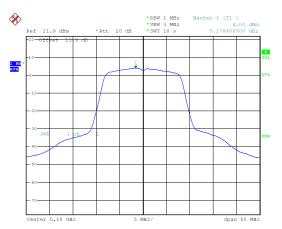
# CH46



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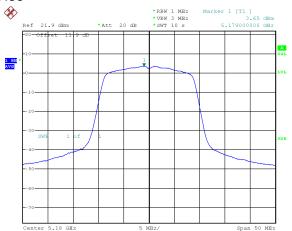


ANT 3 Modulation Standard: 802.11a (6Mbps)

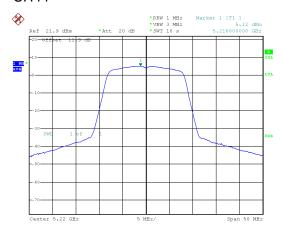


# Modulation Standard: 802.11ac VHT20 (6.5Mbps) **CH36**

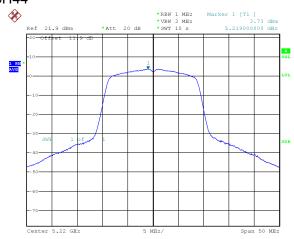
Report No.: TEFE1704172



# CH44



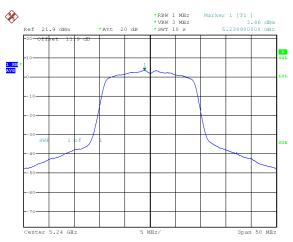
# CH44



# CH48



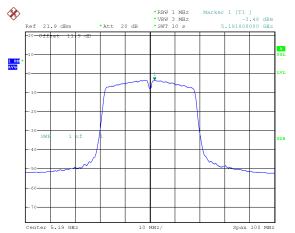
# CH48



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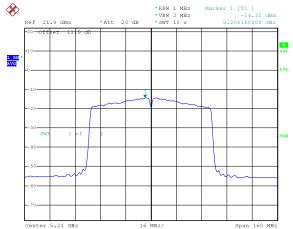


ANT 3 Modulation Standard: 802.11ac VHT40 (13.5Mbps)

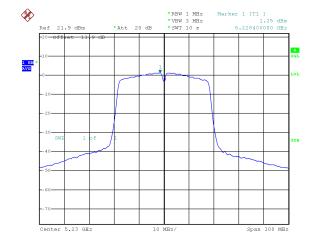


#### Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

Report No.: TEFE1704172



# CH46



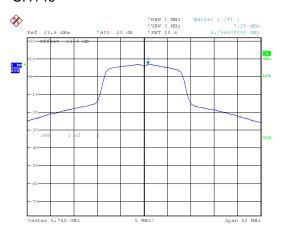
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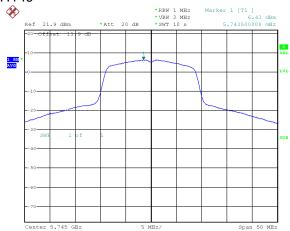
# RPASS TECHNOLOGY CORP. Report No.: TEFE1704172

5.8G Band ANT 0

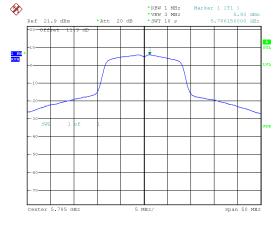
Modulation Standard: 802.11a (6Mbps) CH149



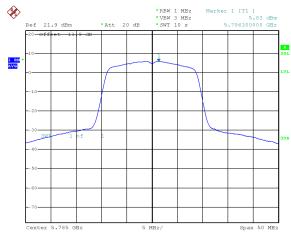
# Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149



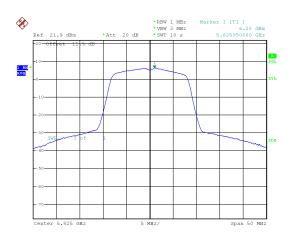
#### CH157



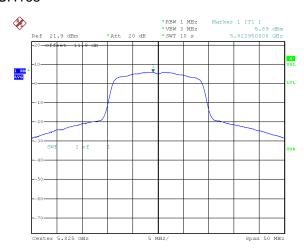
# CH157



#### CH165



#### CH165

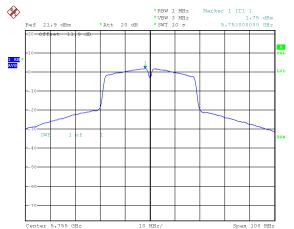


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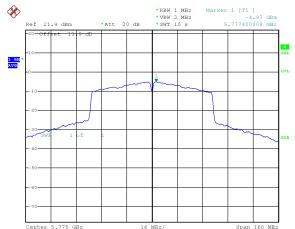


ANT 0 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

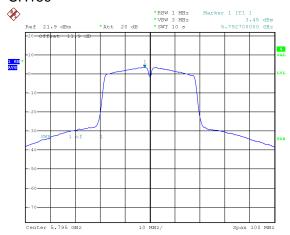


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



# CH159

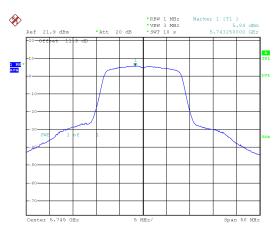


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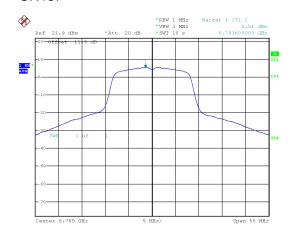
ANT 1 Modulation Standard: 802.11a (6Mbps) CH149



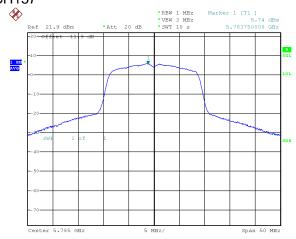
# Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149



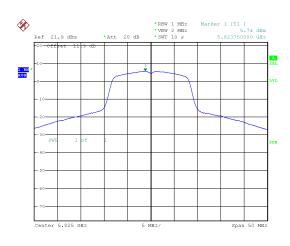
# CH157



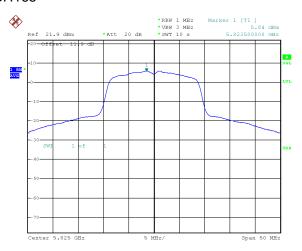
# CH157



# CH165



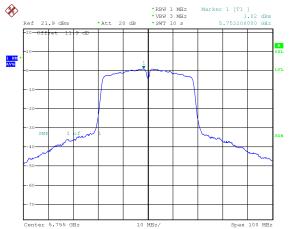
# CH165



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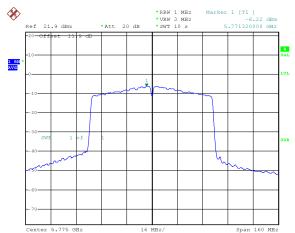


ANT 1 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

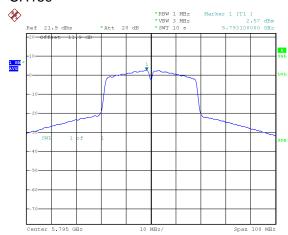


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



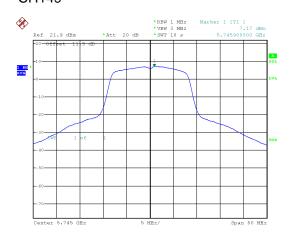
# CH159



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# ANT 2 Modulation Standard: 802.11a (6Mbps)

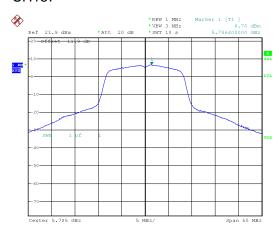


# Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149

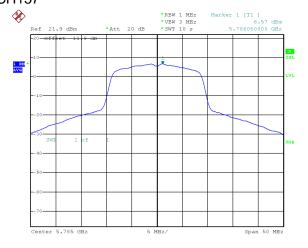
Report No.: TEFE1704172



# CH157



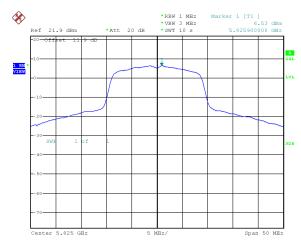
# CH157



# CH165



# CH165

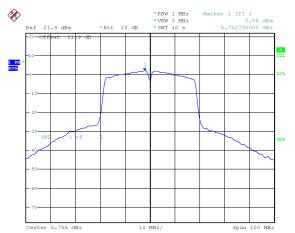


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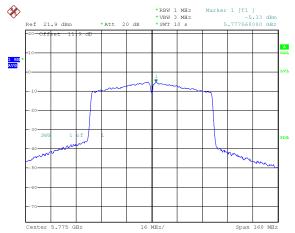


ANT 2 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

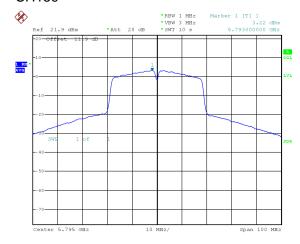


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



# CH159

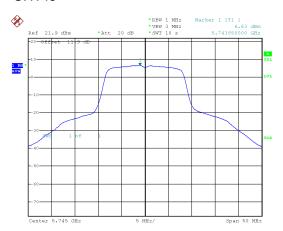


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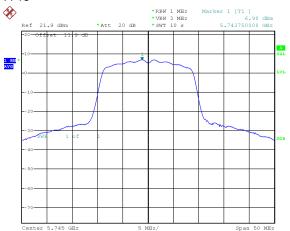


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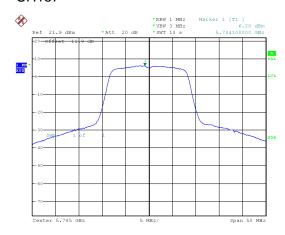
ANT 3 Modulation Standard: 802.11a (6Mbps) CH149



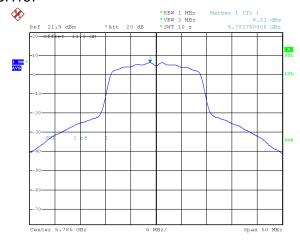
# Modulation Standard: 802.11ac, VHT20 (6.5Mbps) CH149



# CH157



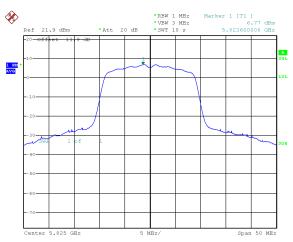
# CH157



# CH165



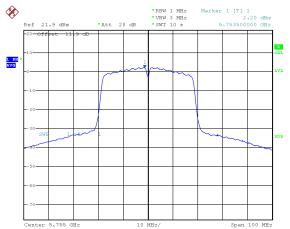
# CH165



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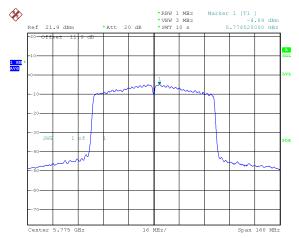


ANT 3 Modulation Standard: 802.11ac, VHT40 (13.5Mbps) CH151

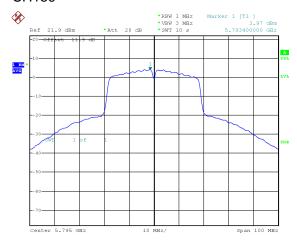


# Modulation Standard: 802.11ac, VHT80 (29.3Mbps) CH155

Report No.: TEFE1704172



# CH159



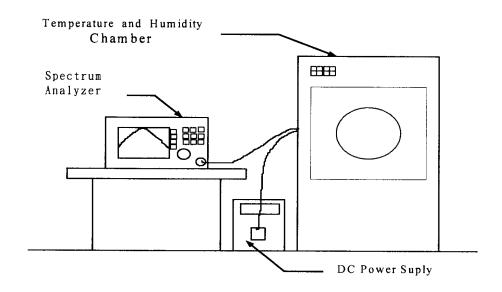
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# 12. Frequency Stability

#### 12.1.Test Procedure

- 1. The EUT was placed inside the Temperature and Humidity chamber.
- 2. The transmitter output was connected to spectrum analyzer.
- 3. Turn the EUT on and couple its output to a spectrum analyzer.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- 6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

# 12.2.Test Setup Layout



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# 12.3.Test Result and Data

Temperature: 23°C Humidity: 61%

Test Date: Jul. 27, 2017

Operating frequency: 5180 MHz											
Temp	Power supply	2 mir	nute	5 mir	nute	10 n	ninute				
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)				
	102	5180.0347	0.000669	5180.0675	0.001302	5180.0751	0.001450				
50	120	5179.9166	-0.001609	5179.9643	-0.000690	5179.9745	-0.000492				
	138	5180.0928	0.001791	5179.9892	-0.000209	5180.0267	0.000515				
	102	5179.9400	-0.001157	5180.0870	0.001679	5179.9071	-0.001793				
40	120	5179.9274	-0.001401	5180.0817	0.001577	5180.0515	0.000995				
	138	5180.0247	0.000476	5179.9277	-0.001395	5179.9271	-0.001407				
	102	5179.9165	-0.001612	5179.9398	-0.001162	5179.9358	-0.001240				
30	120	5180.0166	0.000321	5179.9654	-0.000668	5180.0542	0.001045				
	138	5179.9178	-0.001588	5179.9604	-0.000764	5180.0169	0.000326				
	102	5179.9435	-0.001092	5179.9855	-0.000281	5180.0205	0.000396				
20	120	5179.9165	-0.001612	5180.0099	0.000192	5179.9013	-0.001906				
	138	5180.0593	0.001145	5180.0354	0.000683	5179.9381	-0.001195				
	102	5179.9267	-0.001416	5180.0648	0.001252	5180.0856	0.001653				
10	120	5180.0187	0.000361	5179.9776	-0.000432	5179.9400	-0.001157				
	138	5180.0210	0.000405	5179.9213	-0.001519	5179.9215	-0.001516				
	102	5179.9466	-0.001031	5179.9748	-0.000486	5179.9077	-0.001781				
0	120	5180.0790	0.001525	5179.9727	-0.000527	5180.0565	0.001092				
	138	5180.0048	0.000092	5180.0190	0.000367	5180.0935	0.001806				
	102	5179.9298	-0.001354	5179.9196	-0.001551	5180.0825	0.001593				
-10	120	5179.9145	-0.001651	5180.0282	0.000544	5180.0164	0.000317				
	138	5179.9978	-0.000042	5179.9655	-0.000667	5180.0327	0.000632				
	102	5180.0301	0.000582	5179.9105	-0.001727	5179.9484	-0.000996				
-20	120	5180.0334	0.000645	5180.0230	0.000444	5179.9280	-0.001390				
	138	5180.0635	0.001227	5180.0564	0.001088	5180.0544	0.001051				
	102	5180.0802	0.001548	5179.9725	-0.000530	5180.0004	0.000008				
-30	120	5179.9271	-0.001407	5180.0132	0.000256	5180.0778	0.001501				
	138	5180.0999	0.001929	5180.0334	0.000645	5180.0906	0.001748				

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

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# 13. Automatically Discontinue Transmission

# 13.1.Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

# 13.2.Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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