

Test Report No.60390716 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 60390716 001Appendix D)

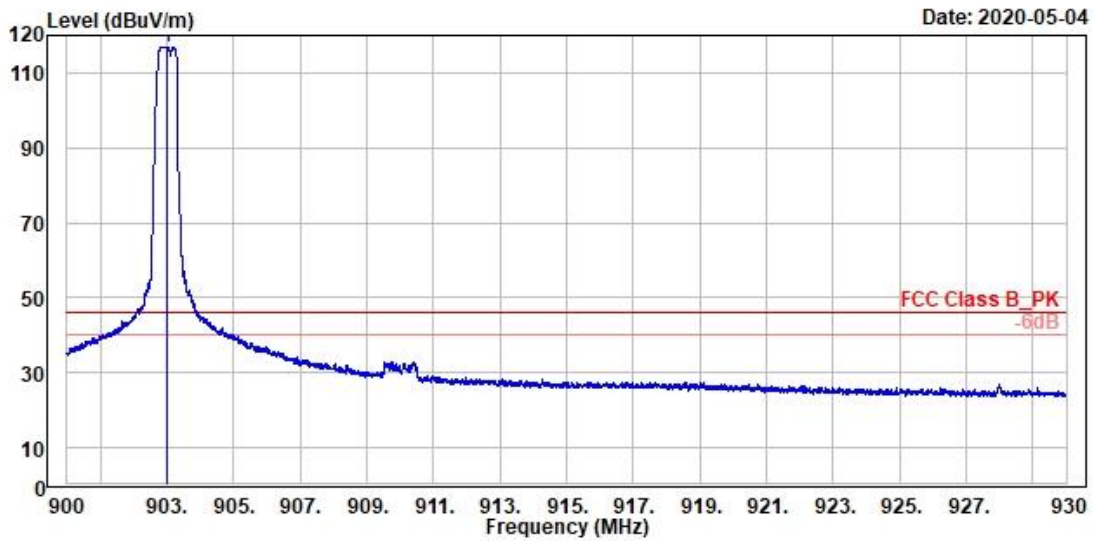
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Spurious Emissions, Band Edges, WLR089UC with External Antenna (RFA-S1-C55H1-150D034)

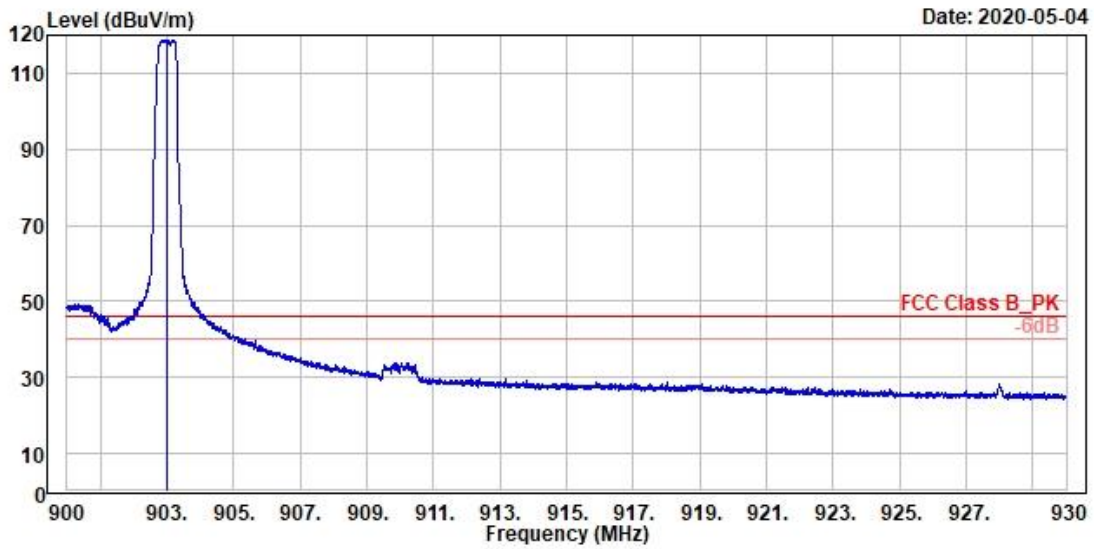


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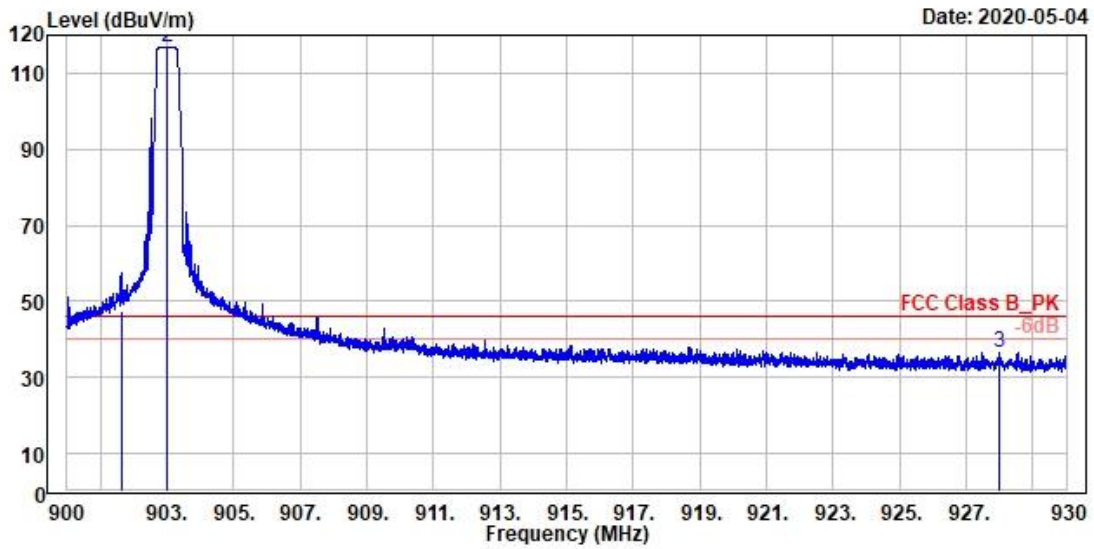
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 *	903.00	117.02	112.88	4.14	46.00	71.02	103	146 Peak	Horizontal	

Note: non-restriction band



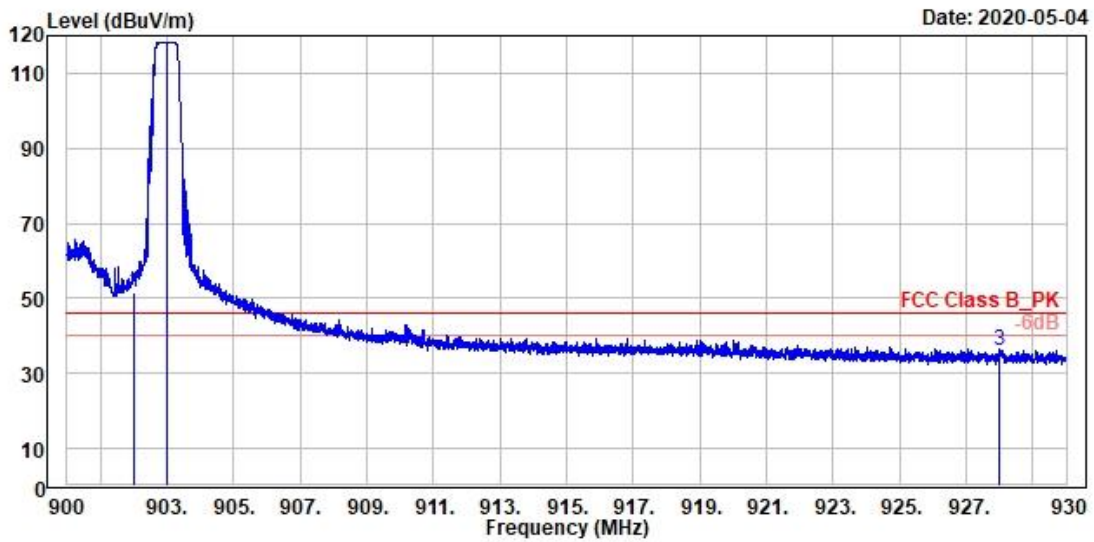
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 *	903.00	118.43	114.29	4.14	46.00	72.43	115	314	Average	Vertical	

Note: non-restriction band



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 *	901.62	47.30	43.19	4.11	46.00	1.30	103	146	QP	Horizontal	
2 *	903.00	116.63	112.49	4.14	46.00	70.63	103	146	Peak	Horizontal	
3	928.00	36.35	31.66	4.69	46.00	-9.65	103	146	QP	Horizontal	

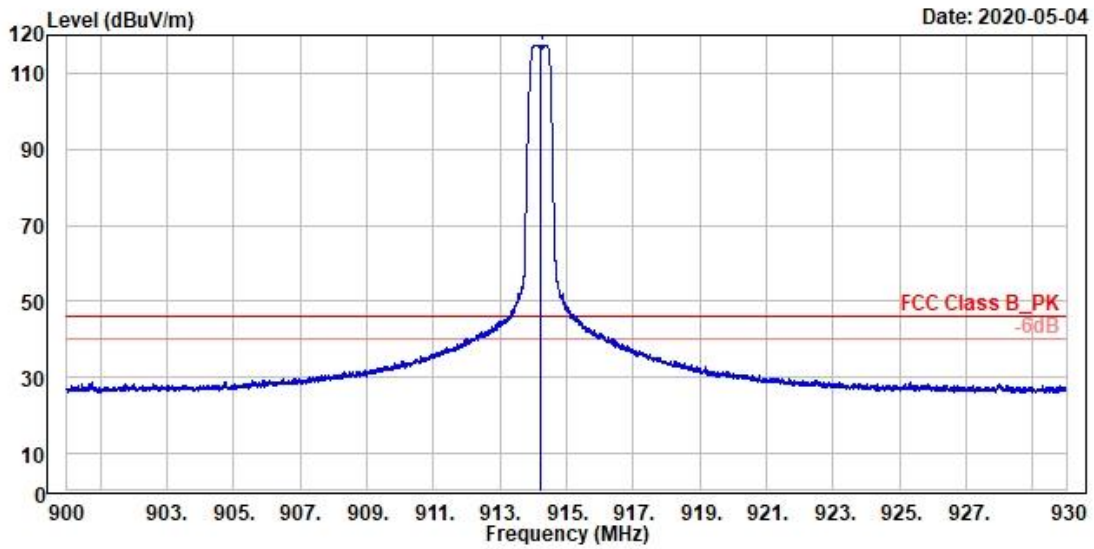
Note: non-restriction band



Date: 2020-05-04

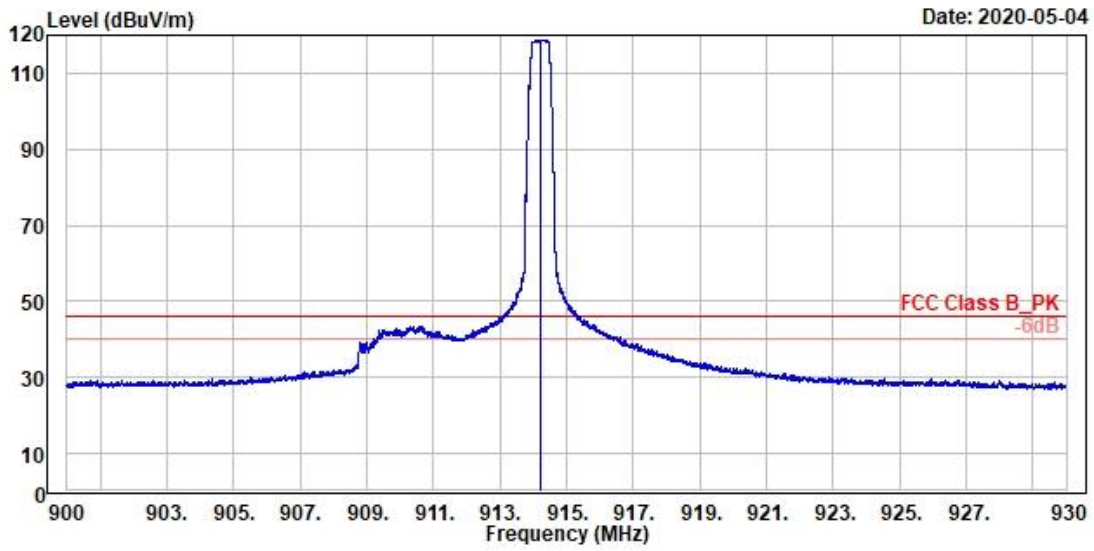
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 *	902.00	51.51	47.40	4.11	46.00	5.51	115	314	QP	Vertical	
2 *	903.00	118.05	113.91	4.14	46.00	72.05	115	314	Peak	Vertical	
3	928.01	36.20	31.51	4.69	46.00	-9.80	115	314	QP	Vertical	

Note: non-restriction band



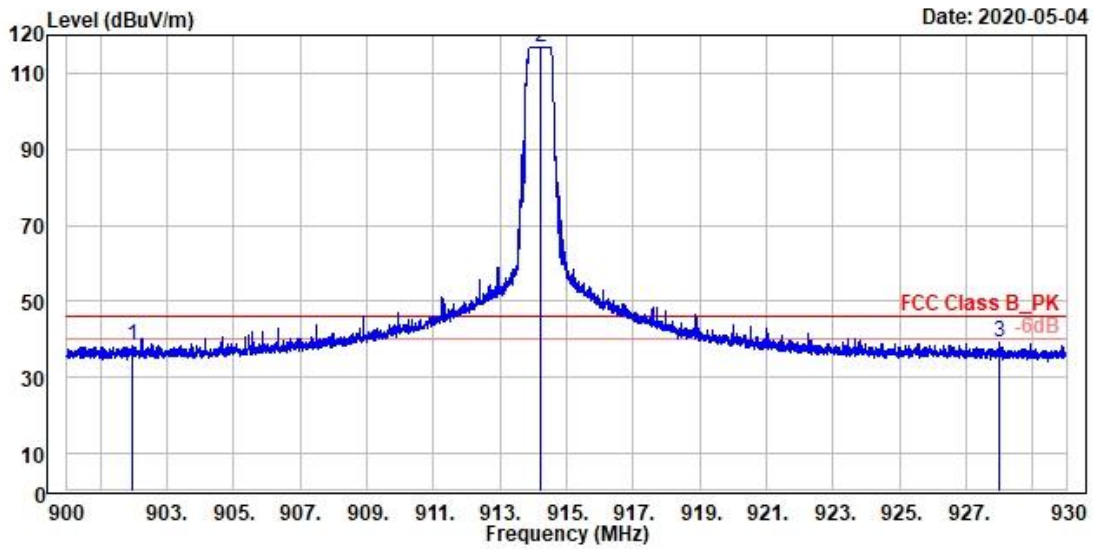
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 *	914.20	117.35	112.94	4.41	46.00	71.35	104	146	Average	Horizontal	

Note: non-restriction band



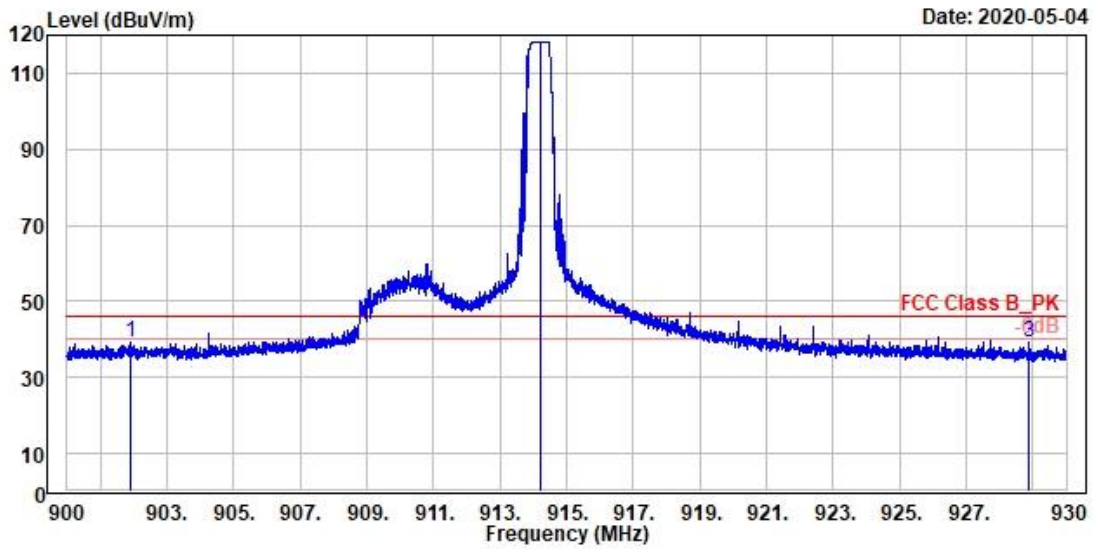
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1 *	914.20	118.44	114.03	4.41	46.00	72.44	115	313	Average	Vertical	

Note: non-restriction band



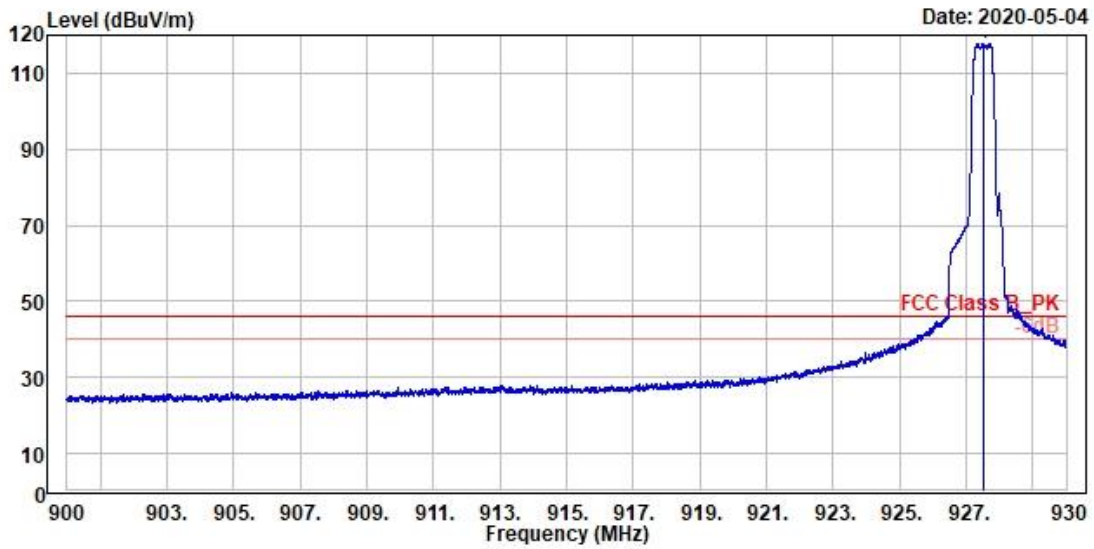
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	901.95	38.52	34.41	4.11	46.00	-7.48	104	146	QP	Horizontal	
2 *	914.20	116.97	112.56	4.41	46.00	70.97	104	146	Peak	Horizontal	
3	928.01	39.39	34.70	4.69	46.00	-6.61	104	146	QP	Horizontal	

Note: non-restriction band



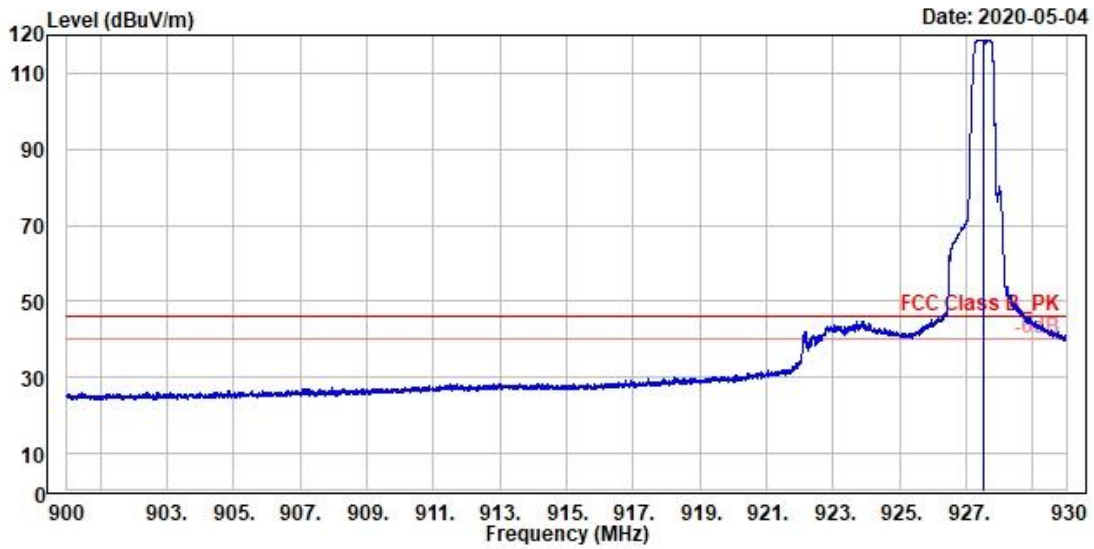
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	901.88	39.02	34.91	4.11	46.00	-6.98	115	313	QP	Vertical	
2 *	914.20	118.06	113.65	4.41	46.00	72.06	115	313	Peak	Vertical	
3	928.90	39.08	34.38	4.70	46.00	-6.92	115	313	QP	Vertical	

Note: non-restriction band



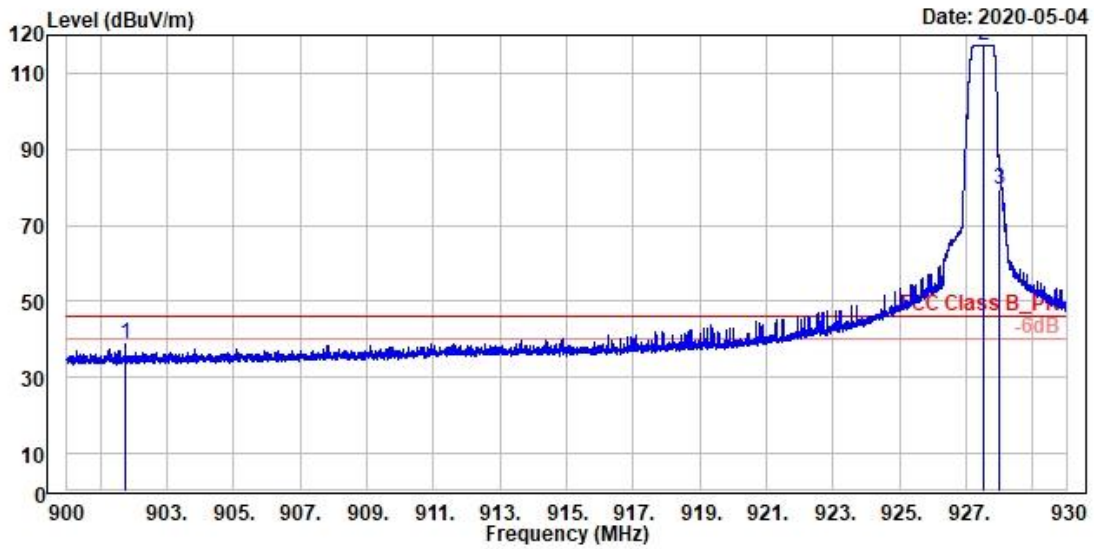
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 *	927.50	117.62	112.94	4.68	46.00	71.62	100	145	Average	Horizontal	

Note: non-restriction band



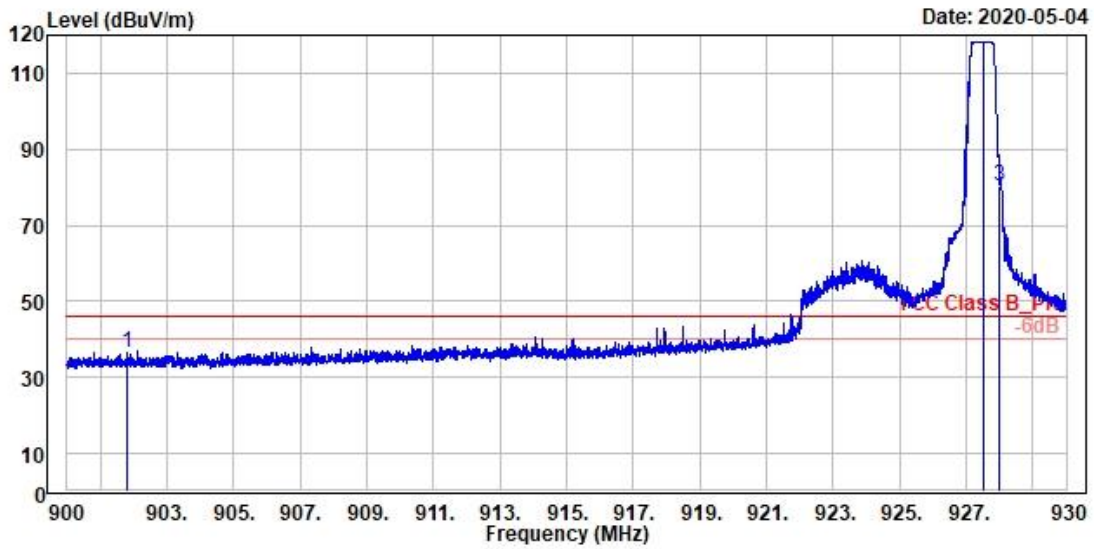
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 *	927.50	118.77	114.09	4.68	46.00	72.77	109	300	Average	Vertical	

Note: non-restriction band



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	901.76	38.91	34.80	4.11	46.00	-7.09	100	145	QP	Horizontal	
2 *	927.50	117.17	112.49	4.68	46.00	71.17	100	145	Peak	Horizontal	
3 *	928.00	79.39	74.70	4.69	46.00	33.39	100	145	QP	Horizontal	

Note: non-restriction band



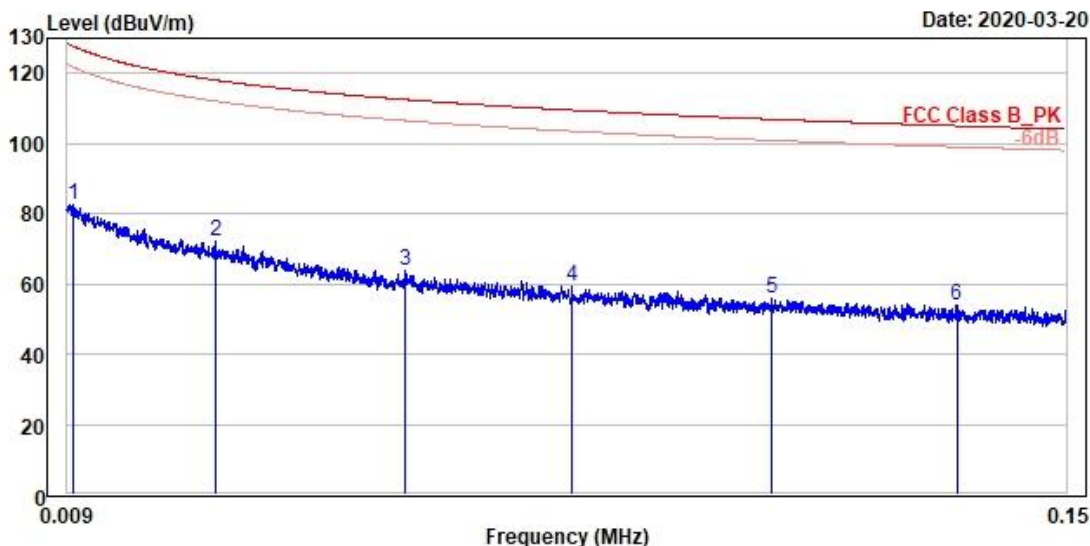
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	901.80	36.60	32.49	4.11	46.00	-9.40	109	300	QP	Vertical	
2 *	927.50	118.39	113.71	4.68	46.00	72.39	109	300	Peak	Vertical	
3 *	928.01	80.39	75.70	4.69	46.00	34.39	109	300	QP	Vertical	

Note: non-restriction band

Spurious Emissions, TX Mode, 9kHz-30MHz, WLR089UC with External Antenna (RFA-S1-C55H1-150D034)

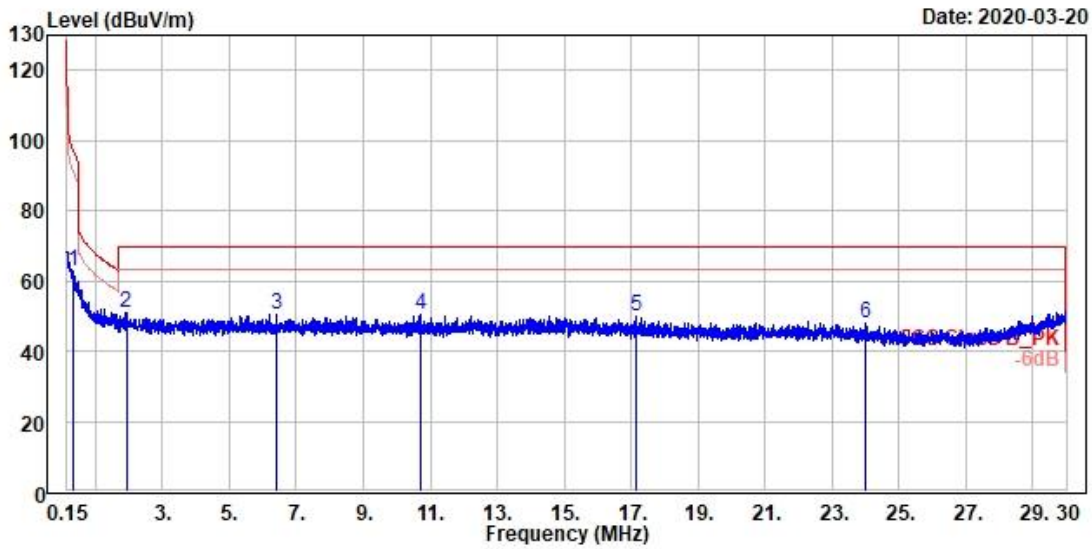


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Site : 3m_Semi-Anechoic_Chamber(966_D)
Condition : FCC Class B_PK vertical
Test Engineer: Simon Tsai
Product : SAMR34M
Model NO : WLR089U
Test Rating : 5Vdc
Tmp/Hum : 21.7°C/50.9%
Mode : TX_927.5MHz_DTS Mode(500k)
Power setting: 20/sf12
: 2020/02/26 New Sample

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Level	Factor	Line	Limit		
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg
1	0.010	82.49	3.51	78.98	127.70	-45.21	100 131 QP
2	0.030	72.09	1.33	70.76	118.07	-45.98	100 104 QP
3	0.057	63.96	-0.15	64.11	112.52	-48.56	100 223 QP
4	0.080	59.18	-2.05	61.23	109.51	-50.33	100 296 QP
5	0.108	55.91	-2.85	58.76	106.89	-50.98	100 236 QP
6	0.135	54.02	-3.23	57.25	105.02	-51.00	100 12 QP



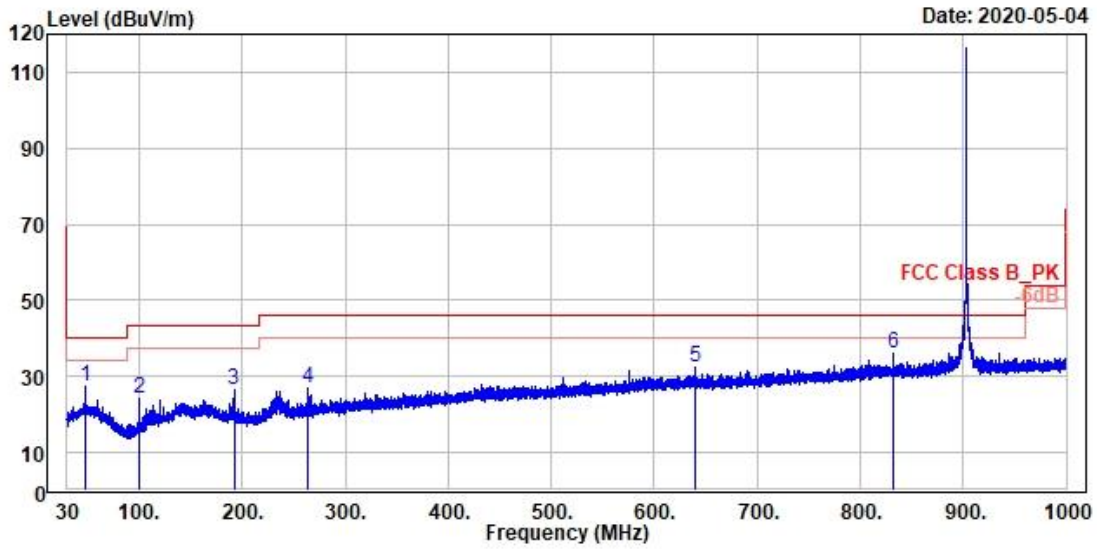
Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK vertical
 Test Engineer: Simon Tsai
 Product : SAMR34M
 Model NO : WLR089U
 Test Rating : 5Vdc
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_927.5MHz_DTS Mode(500k)
 Power setting: 20/sf12
 : 2020/02/26 New Sample

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.320	62.59	12.55	50.04	97.49	-34.90	100	360	QP	
2	1.917	50.95	12.14	38.81	69.50	-18.55	100	46	QP	
3	6.424	50.56	12.20	38.36	69.50	-18.94	100	114	QP	
4	10.693	50.46	13.15	37.31	69.50	-19.04	100	212	QP	
5	17.156	50.01	12.92	37.09	69.50	-19.49	100	46	QP	
6	24.027	47.97	13.11	34.86	69.50	-21.53	100	268	QP	

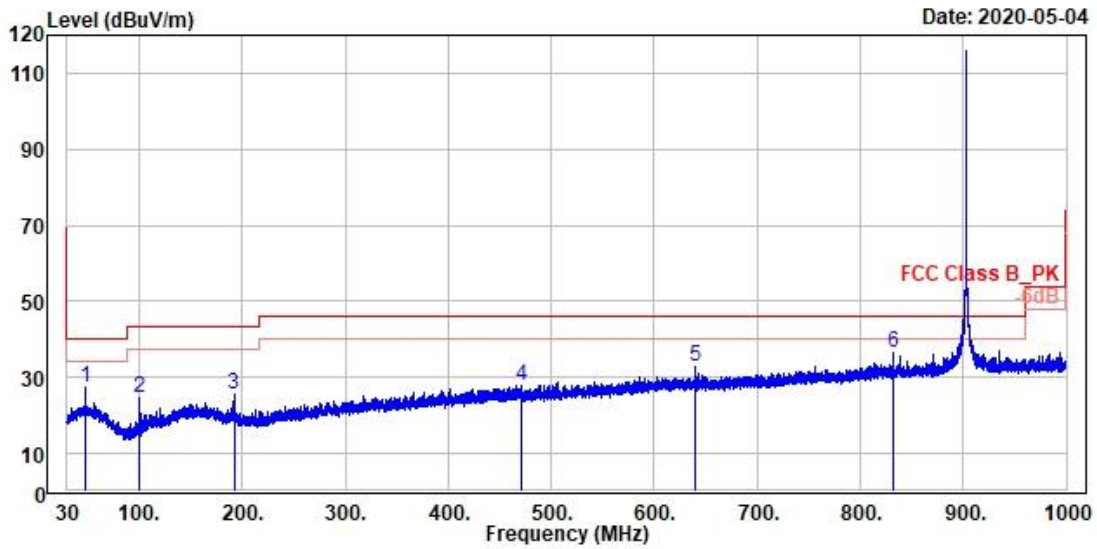
Spurious Emissions, TX Mode, 30MHz-1GHz, WLR089UC with External Antenna (RFA-S1-C55H1-150D034)



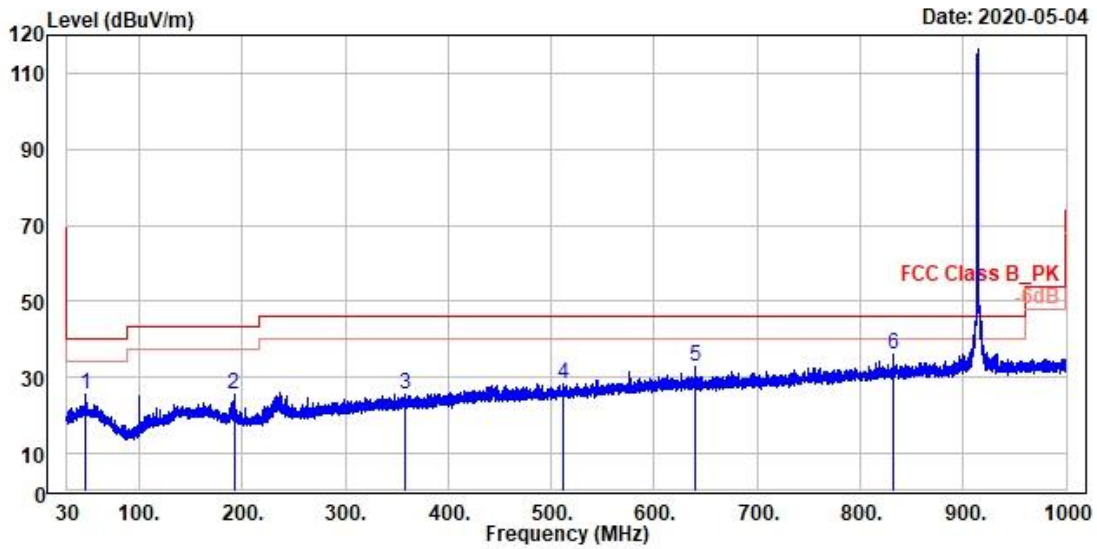
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	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	47.27	27.41	33.45	-6.04	40.00	-12.59	300	33	QP	horizontal	
2	100.23	24.11	35.13	-11.02	43.50	-19.39	200	100	QP	horizontal	
3	191.99	26.37	34.60	-8.23	43.50	-17.13	100	200	QP	horizontal	
4	263.96	26.88	33.10	-6.22	46.00	-19.12	100	203	QP	horizontal	
5	640.03	32.31	31.75	0.56	46.00	-13.69	126	360	QP	horizontal	
6	832.00	36.01	32.77	3.24	46.00	-9.99	100	143	QP	horizontal	

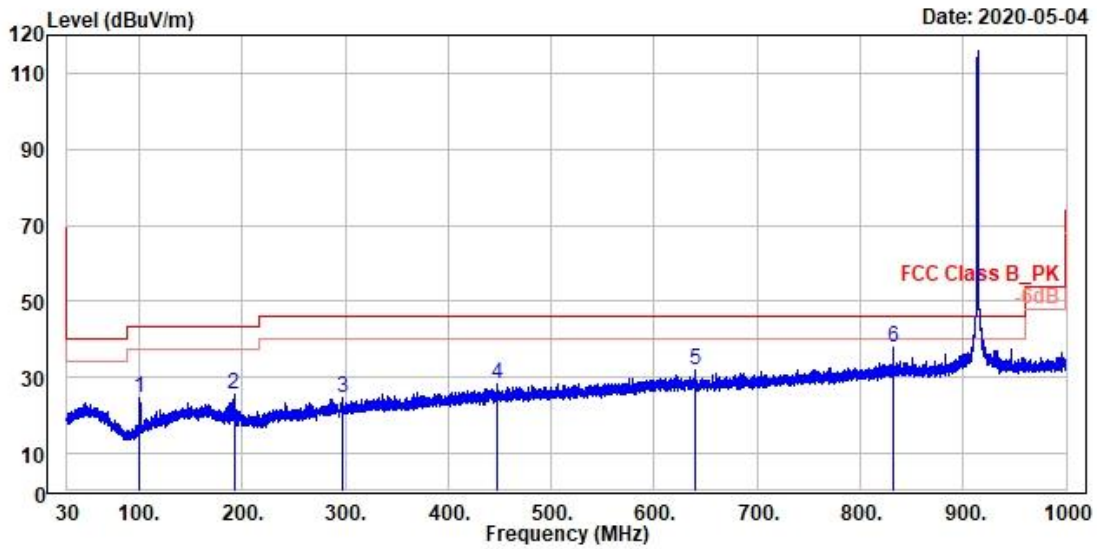


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	47.65	27.43	33.46	-6.03	40.00	-12.57	400	250 QP		vertical	
2	100.03	24.78	35.83	-11.05	43.50	-18.72	200	205 QP		vertical	
3	191.99	25.69	33.92	-8.23	43.50	-17.81	100	360 QP		vertical	
4	471.16	27.95	30.12	-2.17	46.00	-18.05	300	1 QP		vertical	
5	640.03	32.86	32.30	0.56	46.00	-13.14	100	219 QP		vertical	
6	832.09	36.39	33.15	3.24	46.00	-9.61	118	360 QP		vertical	

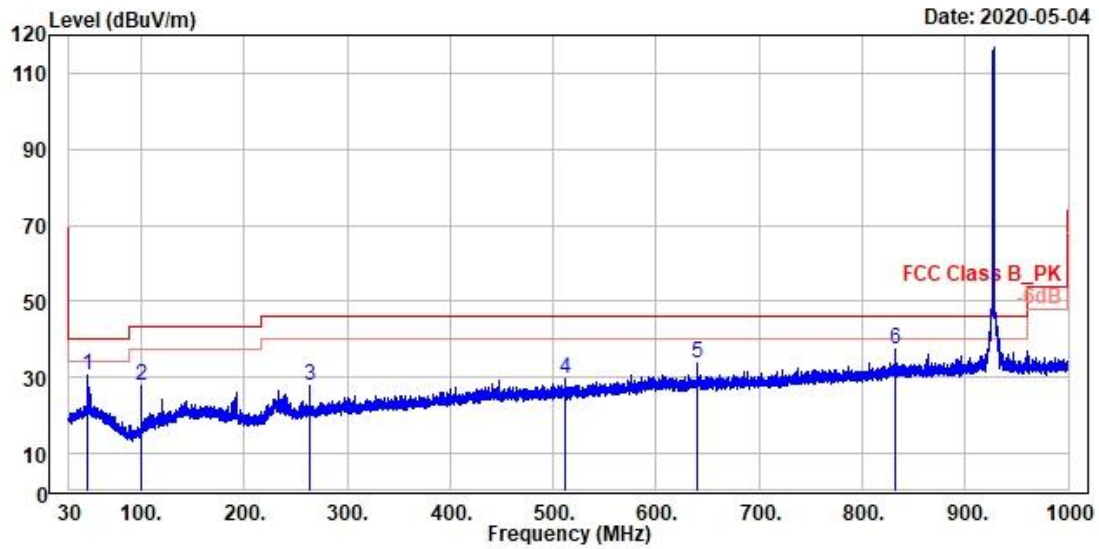


Date: 2020-05-04

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBUV/m	dBuV	dB/m	dBUV/m	dB	cm	deg			
1	47.75	25.77	31.80	-6.03	40.00	-14.23	400	182	QP	horizontal	
2	191.99	25.64	33.87	-8.23	43.50	-17.86	100	197	QP	horizontal	
3	358.15	25.65	29.63	-3.98	46.00	-20.35	327	360	QP	horizontal	
4	512.09	28.42	30.07	-1.65	46.00	-17.58	200	154	QP	horizontal	
5	640.03	32.85	32.29	0.56	46.00	-13.15	300	160	QP	horizontal	
6	832.09	35.96	32.72	3.24	46.00	-10.04	100	142	QP	horizontal	

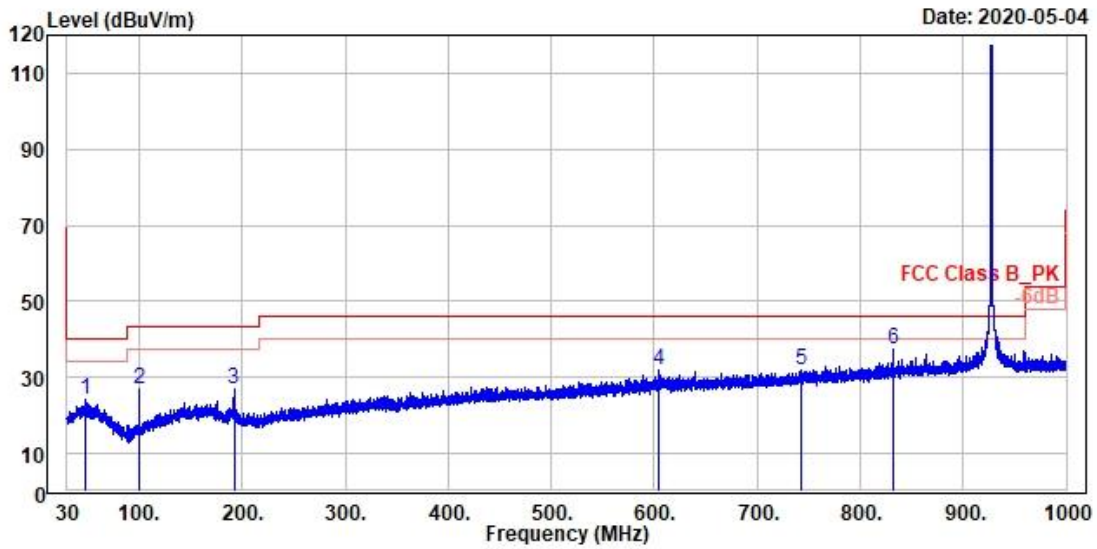


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	100.23	24.41	35.43	-11.02	43.50	-19.09	100	197	QP	vertical	
2	191.99	25.69	33.92	-8.23	43.50	-17.81	104	360	QP	vertical	
3	297.14	24.48	29.39	-4.91	46.00	-21.52	200	231	QP	vertical	
4	447.97	28.38	30.60	-2.22	46.00	-17.62	100	177	QP	vertical	
5	640.03	31.76	31.20	0.56	46.00	-14.24	100	223	QP	vertical	
6	832.09	37.68	34.44	3.24	46.00	-8.32	134	360	QP	vertical	



Date: 2020-05-04

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	48.04	30.76	36.78	-6.02	40.00	-9.24	300	43	QP	horizontal	
2	100.13	27.85	38.89	-11.04	43.50	-15.65	200	112	QP	horizontal	
3	264.06	27.77	33.99	-6.22	46.00	-18.23	100	177	QP	horizontal	
4	512.09	29.58	31.23	-1.65	46.00	-16.42	200	353	QP	horizontal	
5	640.13	33.83	33.27	0.56	46.00	-12.17	149	360	QP	horizontal	
6	832.09	37.27	34.03	3.24	46.00	-8.73	100	157	QP	horizontal	

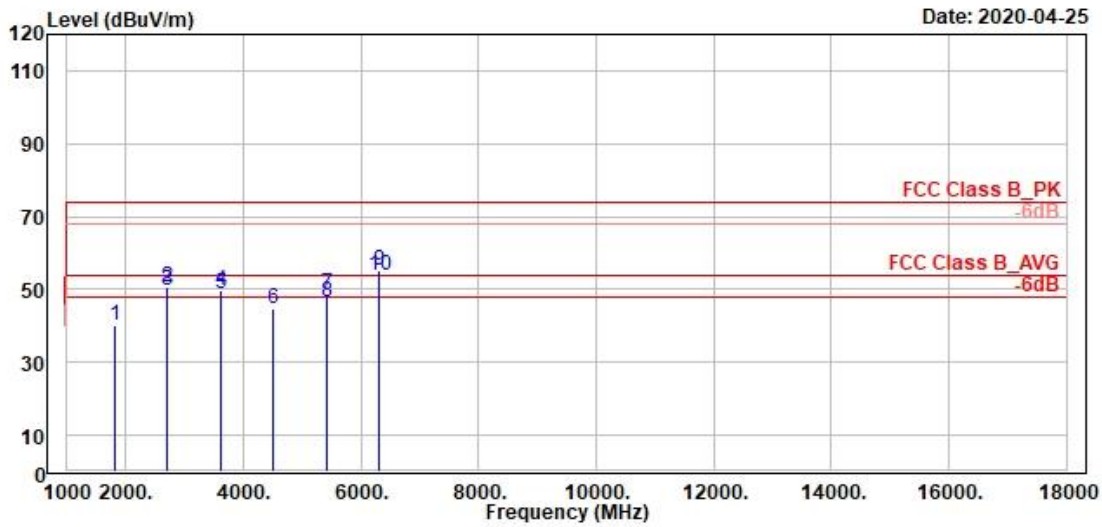


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	47.65	24.33	30.36	-6.03	40.00	-15.67	400	93	QP	vertical	
2	100.13	27.03	38.07	-11.04	43.50	-16.47	200	241	QP	vertical	
3	191.99	27.00	35.23	-8.23	43.50	-16.50	100	40	QP	vertical	
4	605.02	31.98	31.72	0.26	46.00	-14.02	200	99	QP	vertical	
5	741.98	32.13	29.91	2.22	46.00	-13.87	300	0	QP	vertical	
6	832.00	37.56	34.32	3.24	46.00	-8.44	200	135	QP	vertical	

Spurious Emissions, TX Mode, 1GHz-18GHz, WLR089UC with External Antenna (RFA-S1-C55H1-150D034)



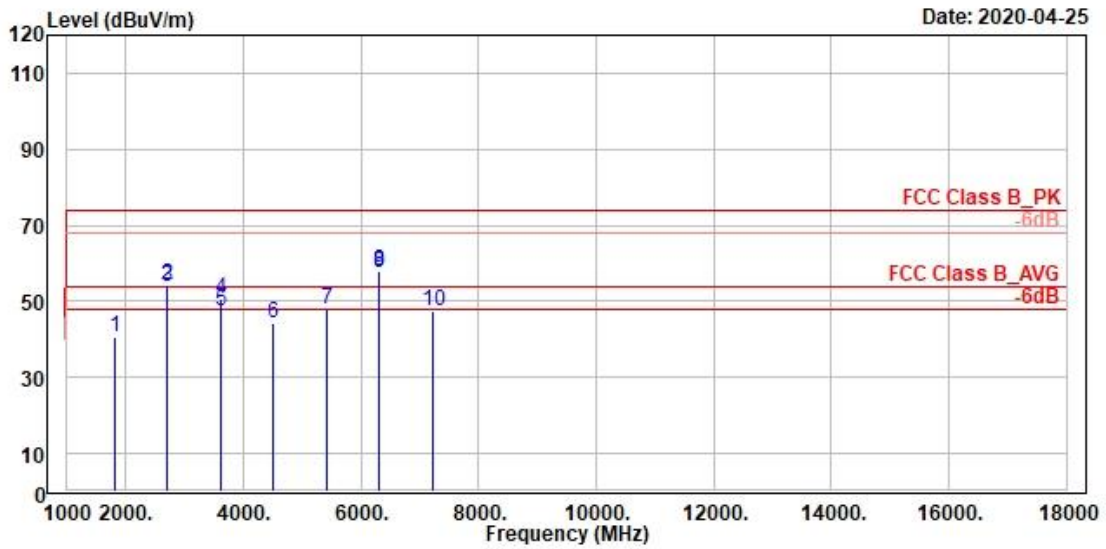
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Date: 2020-04-25

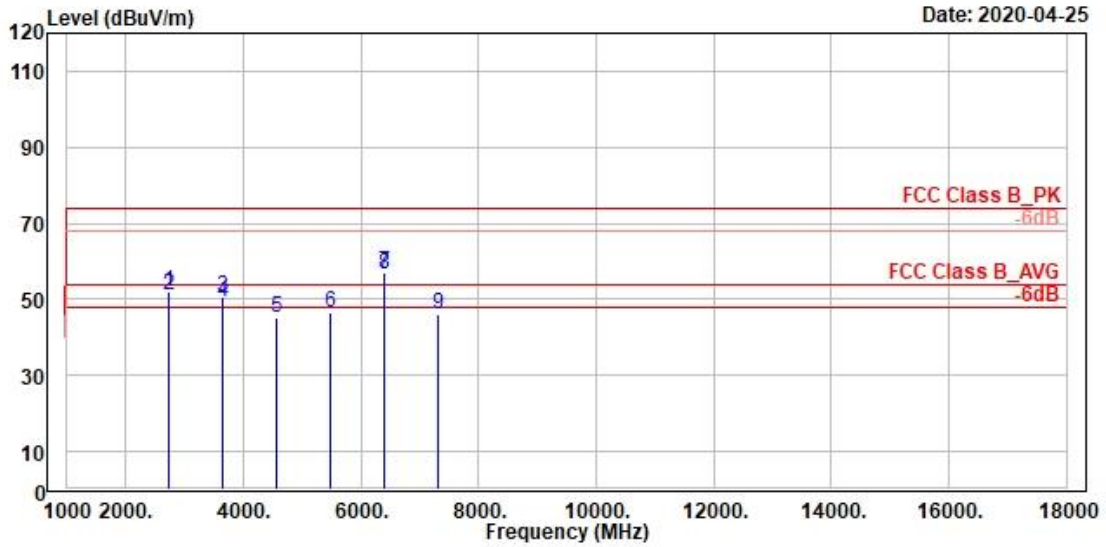
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1805.61	40.00	56.45	-16.45	74.00	-34.00	300	246	Peak	horizontal	
2	2708.50	50.87	64.21	-13.34	74.00	-23.13	100	73	Peak	horizontal	
3 !	2709.00	49.86	63.20	-13.34	54.00	-4.14	100	73	Average	horizontal	
4	3612.00	49.77	61.10	-11.33	74.00	-24.23	100	255	Peak	horizontal	
5 !	3612.00	49.05	60.38	-11.33	54.00	-4.95	100	255	Average	horizontal	
6	4515.22	44.62	54.34	-9.72	74.00	-29.38	100	119	Peak	horizontal	
7	5418.00	48.74	57.00	-8.26	74.00	-25.26	100	73	Peak	horizontal	
8	5418.00	46.35	54.61	-8.26	54.00	-7.65	100	73	Average	horizontal	
9	6321.00	55.02	62.46	-7.44	74.00	-18.98	100	128	Peak	horizontal	
10 !	6321.00	53.65	61.09	-7.44	54.00	-0.35	100	128	Average	horizontal	

Note: 1805.61MHz and 6321MHz in the Non-Restricted Bands



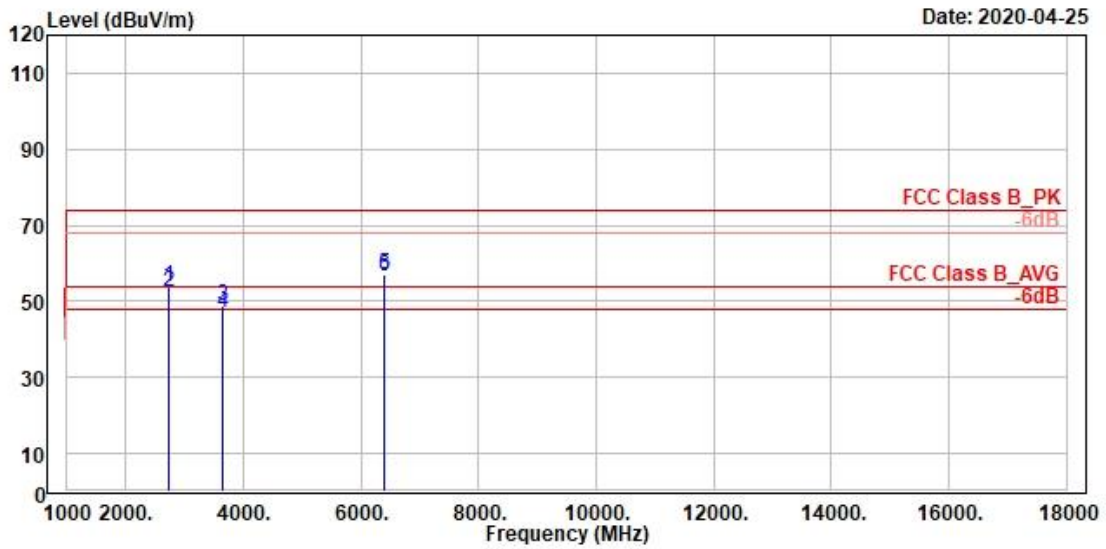
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1806.56	40.60	57.03	-16.43	74.00	-33.40	100	242	Peak	vertical	
2	2709.00	54.52	67.86	-13.34	74.00	-19.48	300	87	Peak	vertical	
3 !	2709.00	53.93	67.27	-13.34	54.00	-0.07	300	87	Average	vertical	
4	3612.00	50.59	61.92	-11.33	74.00	-23.41	300	287	Peak	vertical	
5	3612.00	47.45	58.78	-11.33	54.00	-6.55	300	287	Average	vertical	
6	4514.28	44.20	53.92	-9.72	74.00	-29.80	300	142	Peak	vertical	
7	5417.17	47.76	56.02	-8.26	74.00	-26.24	100	314	Peak	vertical	
8	6321.00	57.82	65.26	-7.44	74.00	-16.18	100	260	Peak	vertical	Non-RB
9 *	6321.00	57.45	64.89	-7.44	54.00	3.45	100	260	Average	vertical	Non-RB
10	7224.83	47.41	54.18	-6.77	74.00	-26.59	300	251	Peak	vertical	

Note: 1806.56MHz in the Non-Restricted Bands

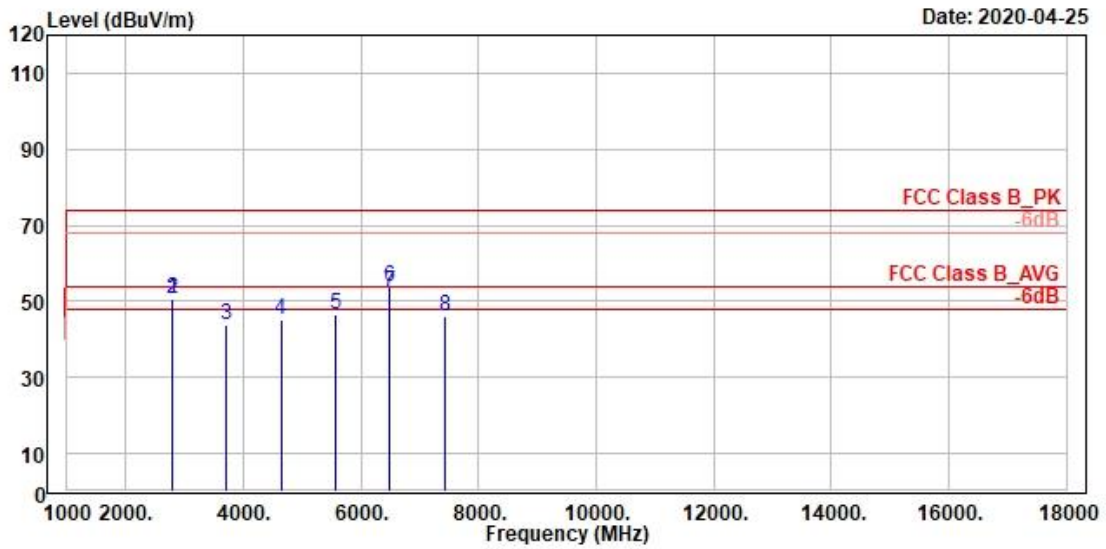


Date: 2020-04-25

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2741.56	52.23	65.33	-13.10	74.00	-21.77	100	64	Peak	horizontal	
2 !	2741.56	51.05	64.15	-13.10	54.00	-2.95	100	64	Average	horizontal	
3	3657.67	50.72	61.91	-11.19	74.00	-23.28	300	254	Peak	horizontal	
4 !	3657.67	49.32	60.51	-11.19	54.00	-4.68	300	254	Average	horizontal	
5	4570.94	45.07	54.79	-9.72	74.00	-28.93	300	318	Peak	horizontal	
6	5486.11	46.75	54.89	-8.14	74.00	-27.25	100	9	Peak	horizontal	
7	6399.40	57.03	64.44	-7.41	74.00	-16.97	103	124	Peak	horizontal	Non-RB
8 *	6399.40	56.48	63.89	-7.41	54.00	2.48	103	124	Average	horizontal	Non-RB
9	7313.61	46.10	52.81	-6.71	74.00	-27.90	300	300	Peak	horizontal	

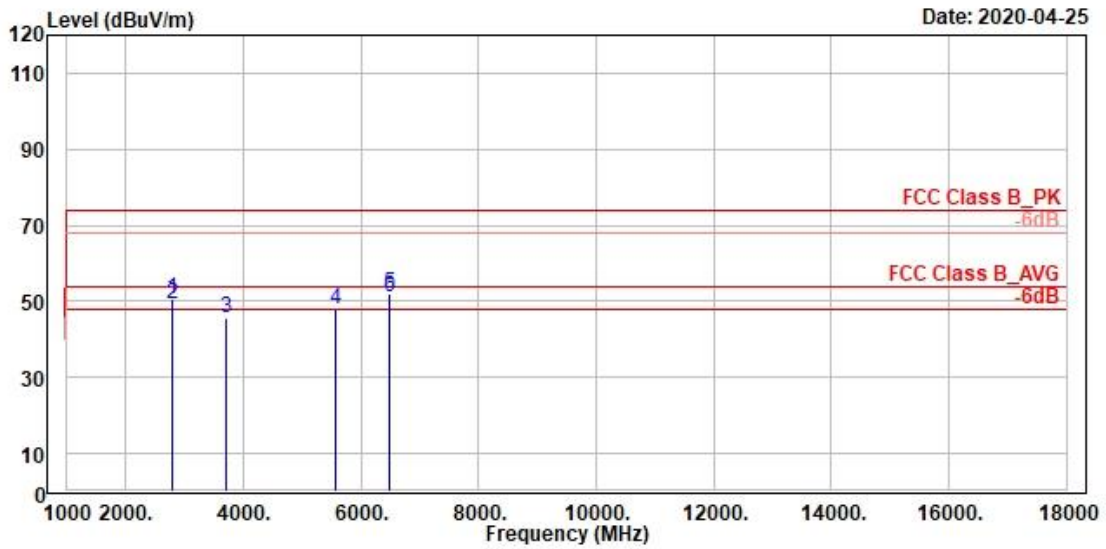


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2742.50	53.65	66.74	-13.09	74.00	-20.35	400	90	Peak	vertical	
2 !	2742.50	52.50	65.59	-13.09	54.00	-1.50	400	90	Average	vertical	
3	3657.67	48.95	60.14	-11.19	74.00	-25.05	300	160	Peak	vertical	
4	3657.67	46.79	57.98	-11.19	54.00	-7.21	300	160	Average	vertical	
5	6399.40	57.20	64.61	-7.41	74.00	-16.80	400	127	Peak	vertical	Non-RB
6 *	6399.40	56.66	64.07	-7.41	54.00	2.66	400	127	Average	vertical	Non-RB



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2782.50	50.85	63.86	-13.01	74.00	-23.15	300	217	Peak	horizontal	
2 !	2782.50	50.67	63.68	-13.01	54.00	-3.33	300	217	Average	horizontal	
3	3708.67	43.86	54.88	-11.02	74.00	-30.14	397	360	Peak	horizontal	
4	4637.06	45.26	54.86	-9.60	74.00	-28.74	100	108	Peak	horizontal	
5	5565.44	46.68	54.89	-8.21	74.00	-27.32	300	360	Peak	horizontal	
6	6492.50	53.88	61.26	-7.38	74.00	-20.12	100	72	Peak	horizontal	
7 !	6492.50	52.48	59.86	-7.38	54.00	-1.52	100	72	Average	horizontal	
8	7421.28	46.03	52.77	-6.74	74.00	-27.97	300	326	Peak	horizontal	

Note: 6492.5MHz in the Non-Restricted Bands



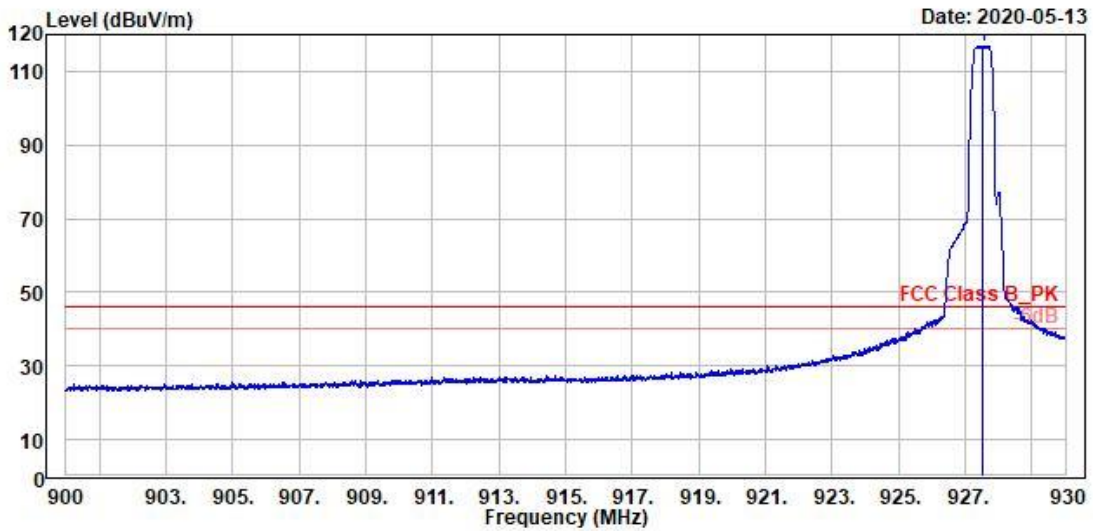
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2782.50	50.68	63.69	-13.01	74.00	-23.32	400	99	Peak	vertical	
2 !	2782.50	49.26	62.27	-13.01	54.00	-4.74	400	99	Average	vertical	
3	3709.61	45.51	56.52	-11.01	74.00	-28.49	300	279	Peak	vertical	
4	5564.50	47.86	56.06	-8.20	74.00	-26.14	400	99	Peak	vertical	
5	6492.50	52.21	59.59	-7.38	74.00	-21.79	100	251	Peak	vertical	
6 !	6492.50	51.02	58.40	-7.38	54.00	-2.98	100	251	Average	vertical	

Note: 6492.5MHz in the Non-Restricted Bands

Spurious Emissions, Band Edges, WLR089U0 with External Antenna (RFA-S1-C55H1-150D034)



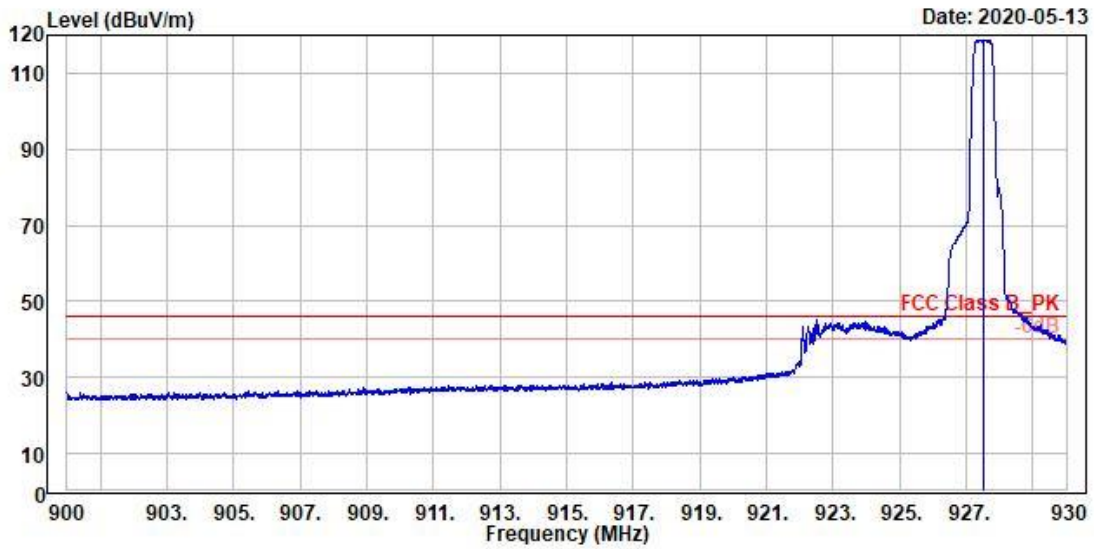
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



Site : 3m_Semi-Anechoic_Chamber(966_D)
Condition : FCC Class B_PK Horizontal
Test Engineer: Eagle Tsai
Product : Wireless Module
Model NO : SAMR34
Test Rating : 5V
Tmp/Hum : 21.7°C/50.9%
Mode : TX_DTS_927.5
Power setting: 20/sf12
Antenna : #1

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 *	927.50	116.62	111.94	4.68	46.00	70.62	100	258 Average	Horizontal

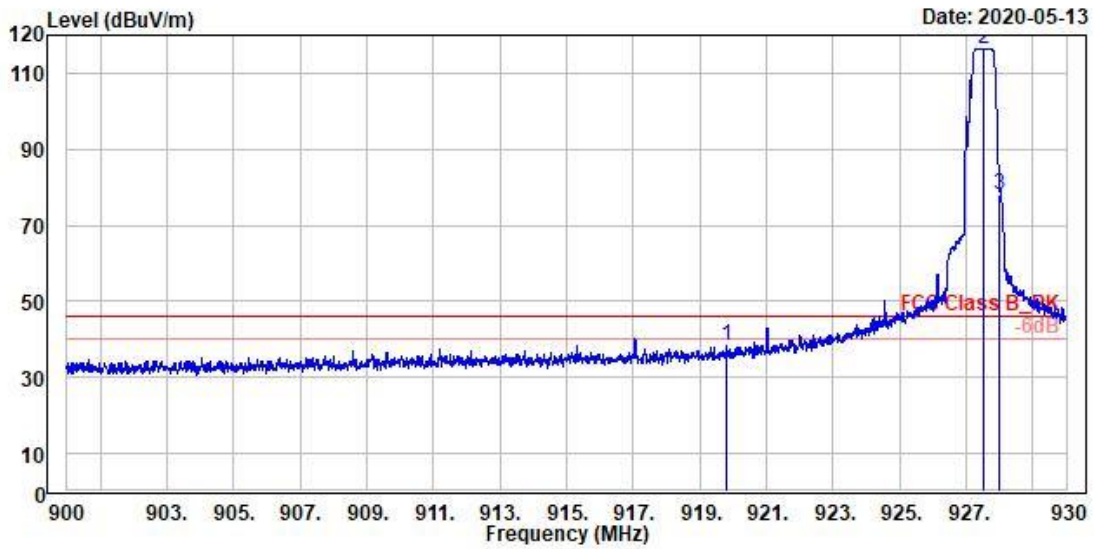
Note: non-restriction band



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK Vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 *	927.50	118.68	114.00	4.68	46.00	72.68	111	58 Average	Vertical

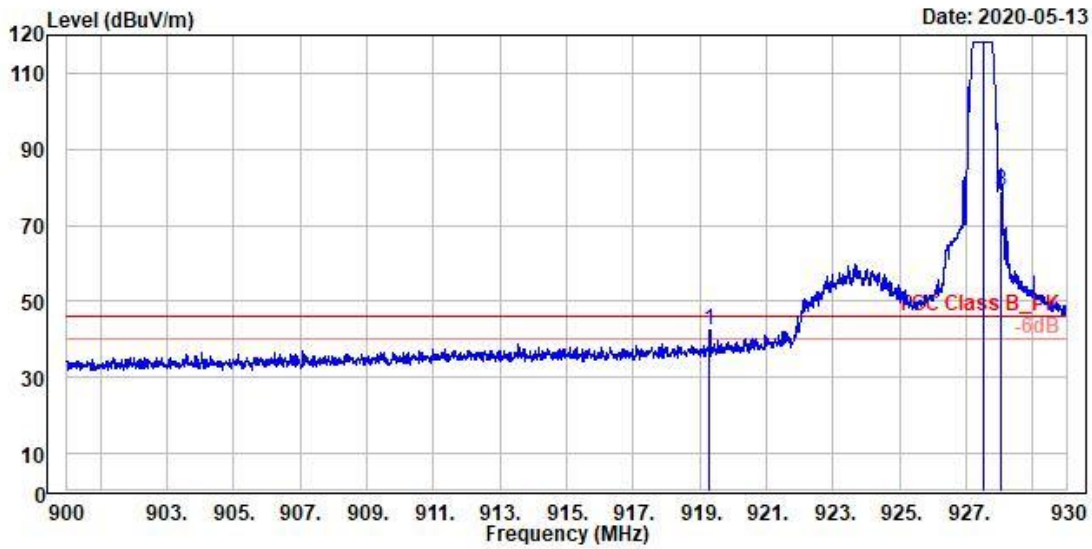
Note: non-restriction band



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK Horizontal
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	919.81	38.27	33.71	4.56	46.00	-7.73	100	258	QP	Horizontal	
2 *	927.50	116.25	111.57	4.68	46.00	70.25	100	258	Peak	Horizontal	
3 *	928.01	77.89	73.20	4.69	46.00	31.89	100	258	QP	Horizontal	

Note: non-restriction band



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK Vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

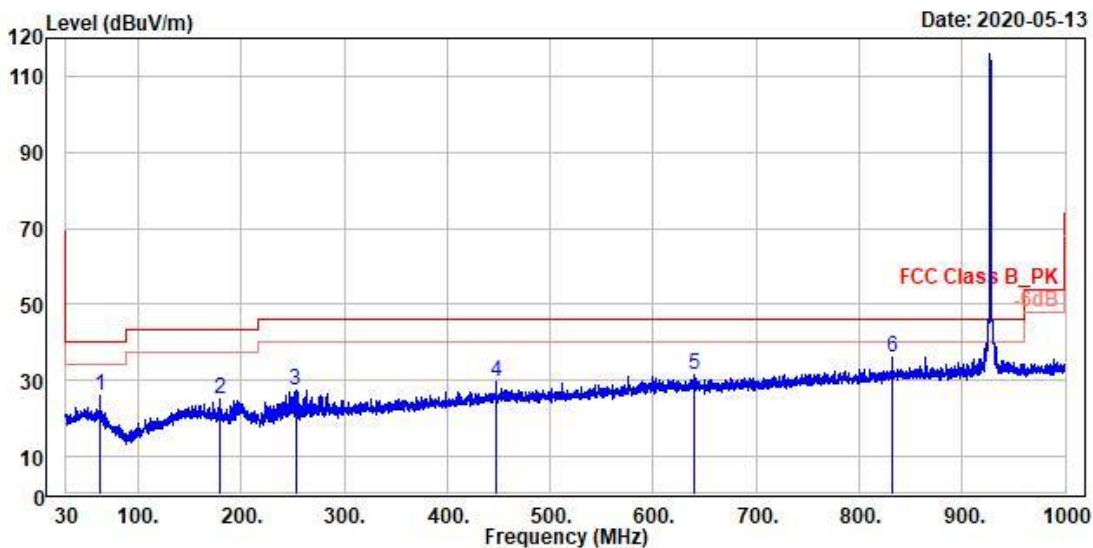
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	919.30	42.30	37.76	4.54	46.00	-3.70	111	58	QP	Vertical	
2 *	927.50	118.30	113.62	4.68	46.00	72.30	111	58	Peak	Vertical	
3 *	928.03	79.09	74.40	4.69	46.00	33.09	111	58	QP	Vertical	

Note: non-restriction band

Spurious Emissions, TX Mode, 30MHz-1GHz, WLR089U0 with External Antenna (RFA-S1-C55H1-150D034)

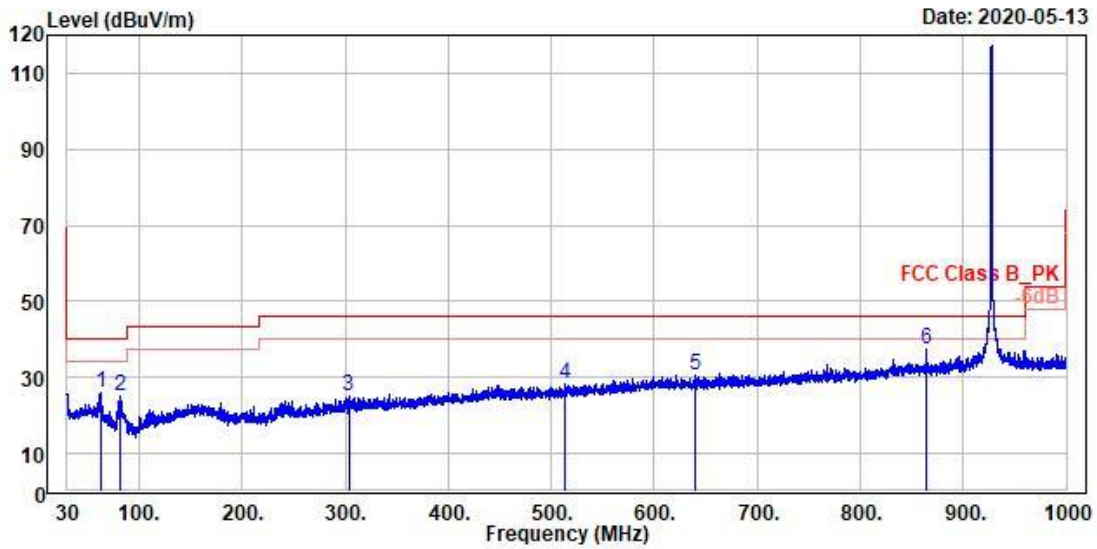


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Site : 3m_Semi-Anechoic_Chamber(966_D)
Condition : FCC Class B_PK horizontal
Test Engineer: Eagle Tsai
Product : Wireless Module
Model NO : SAMR34
Test Rating : 5V
Tmp/Hum : 21.7°C/50.9%
Mode : TX_DTS_927.5
Power setting: 20/sf12
Antenna : #1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	62.98	25.78	32.99	-7.21	40.00	-14.22	200	139	QP	horizontal	
2	179.96	24.96	32.20	-7.24	43.50	-18.54	200	257	QP	horizontal	
3	252.71	27.21	33.80	-6.59	46.00	-18.79	150	265	QP	horizontal	
4	448.07	29.53	31.75	-2.22	46.00	-16.47	200	86	QP	horizontal	
5	640.13	31.30	30.74	0.56	46.00	-14.70	300	40	QP	horizontal	
6	832.19	35.86	32.62	3.24	46.00	-10.14	100	271	QP	horizontal	



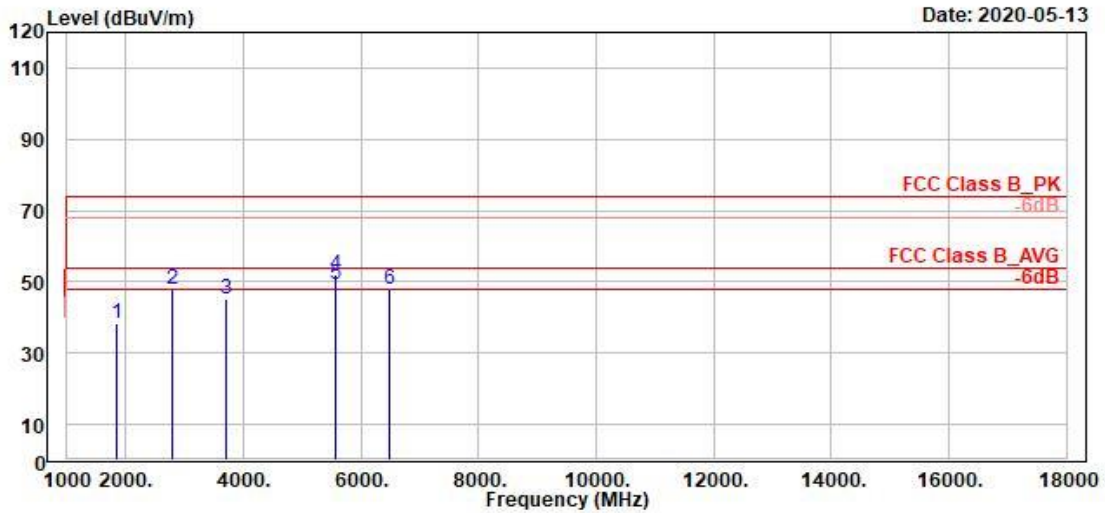
Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	cm	deg			
			dBuV	dB/m	dBuV/m	dB				
1	62.98	26.04	33.25	-7.21	40.00	-13.96	400	5 QP	vertical	
2	81.22	25.15	36.22	-11.07	40.00	-14.85	100	65 QP	vertical	
3	303.35	24.98	29.79	-4.81	46.00	-21.02	100	202 QP	vertical	
4	513.45	28.46	30.09	-1.63	46.00	-17.54	200	36 QP	vertical	
5	640.13	30.71	30.15	0.56	46.00	-15.29	100	302 QP	vertical	
6	864.01	37.27	33.68	3.59	46.00	-8.73	131	360 QP	vertical	

Spurious Emissions, TX Mode, 1GHz-18GHz, WLR089U0 with External Antenna (RFA-S1-C55H1-150D034)



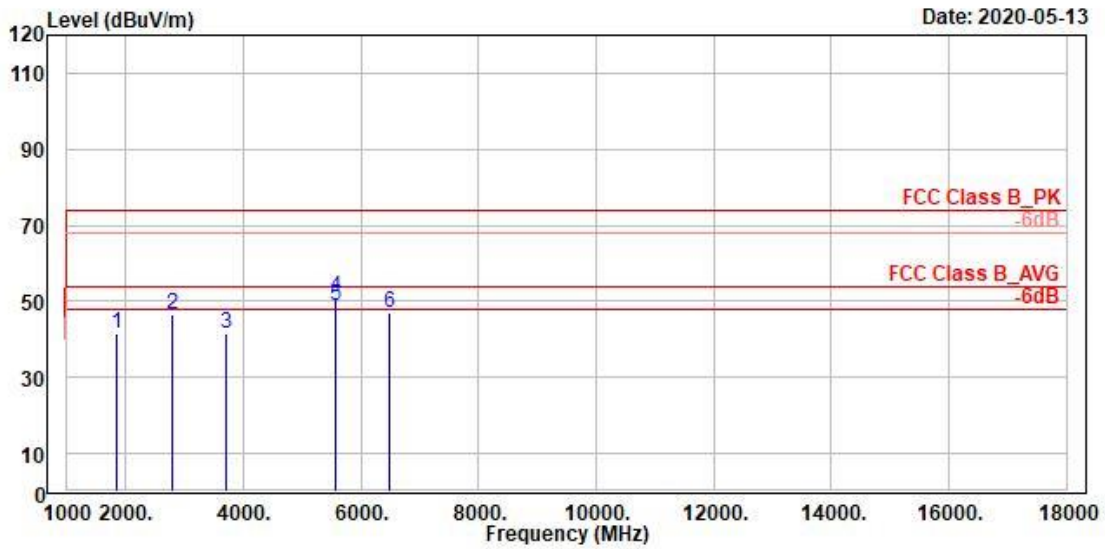
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



Site : 3m_Semi-Anechoic_Chamber(966_D)
Condition : FCC Class B_PK horizontal
Test Engineer: Eagle Tsai
Product : Wireless Module
Model NO : SAMR34
Test Rating : 5V
Tmp/Hum : 21.7°C/50.9%
Mode : TX_DTS_927.5
Power setting: 20/sf12
Antenna : #1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1855.00	38.22	54.13	-15.91	74.00	-35.78	400	75	Peak	horizontal	
2	2782.50	47.72	60.73	-13.01	74.00	-26.28	100	157	Peak	horizontal	
3	3710.00	45.21	56.22	-11.01	74.00	-28.79	330	246	Peak	horizontal	
4	5565.00	51.95	60.15	-8.20	74.00	-22.05	332	206	Peak	horizontal	
5 !	5565.00	49.21	57.41	-8.20	54.00	-4.79	332	206	Average	horizontal	
6	6492.50	48.00	55.38	-7.38	74.00	-26.00	100	273	Peak	horizontal	

Note: 1855MHz and 6492.5MHz in the Non-Restricted Bands



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

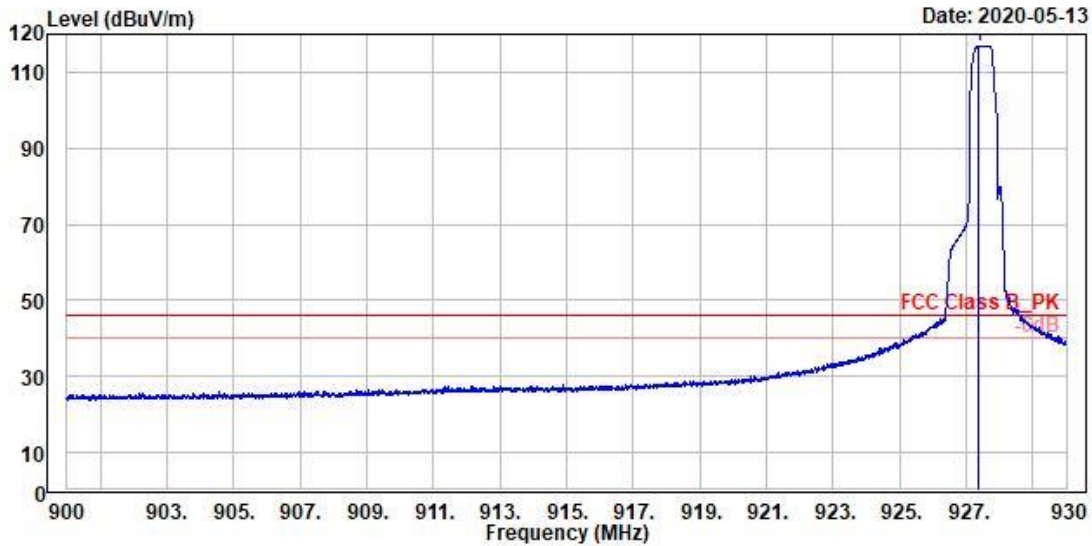
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1855.00	41.51	57.42	-15.91	74.00	-32.49	400	176 Peak	vertical	
2	2782.50	46.68	59.69	-13.01	74.00	-27.32	300	0 Peak	vertical	
3	3710.00	41.46	52.47	-11.01	74.00	-32.54	100	247 Peak	vertical	
4	5565.00	51.31	59.51	-8.20	74.00	-22.69	100	274 Peak	vertical	
5 !	5565.00	48.89	57.09	-8.20	54.00	-5.11	100	274 Average	vertical	
6	6492.50	47.16	54.54	-7.38	74.00	-26.84	100	167 Peak	vertical	

Note: 1855MHz and 6492.5MHz in the Non-Restricted Bands

Spurious Emissions, Band Edges, WLR089UC Alternate Components with External Antenna (RFA-S1-C55H1-150D034)

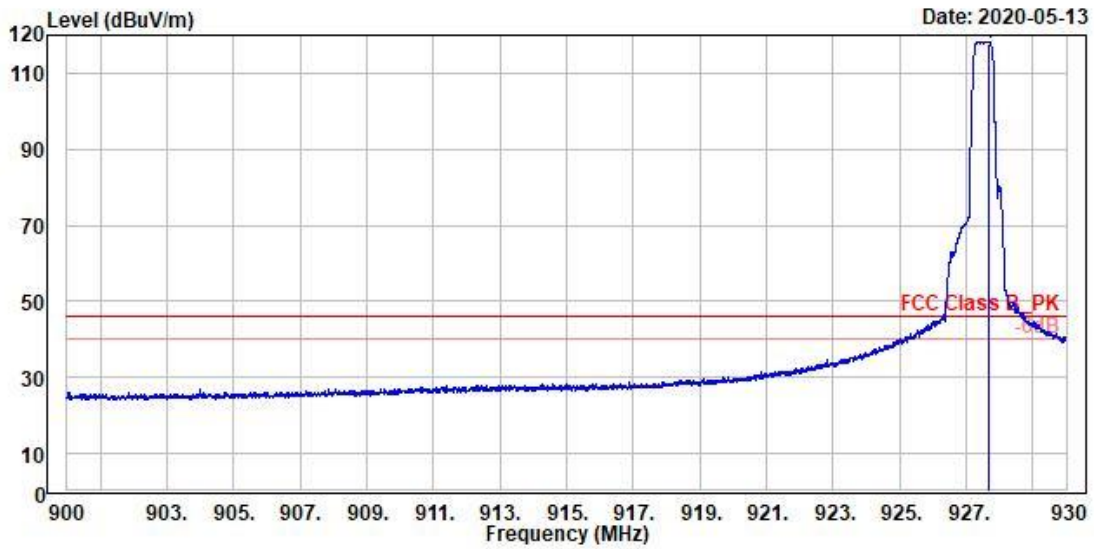


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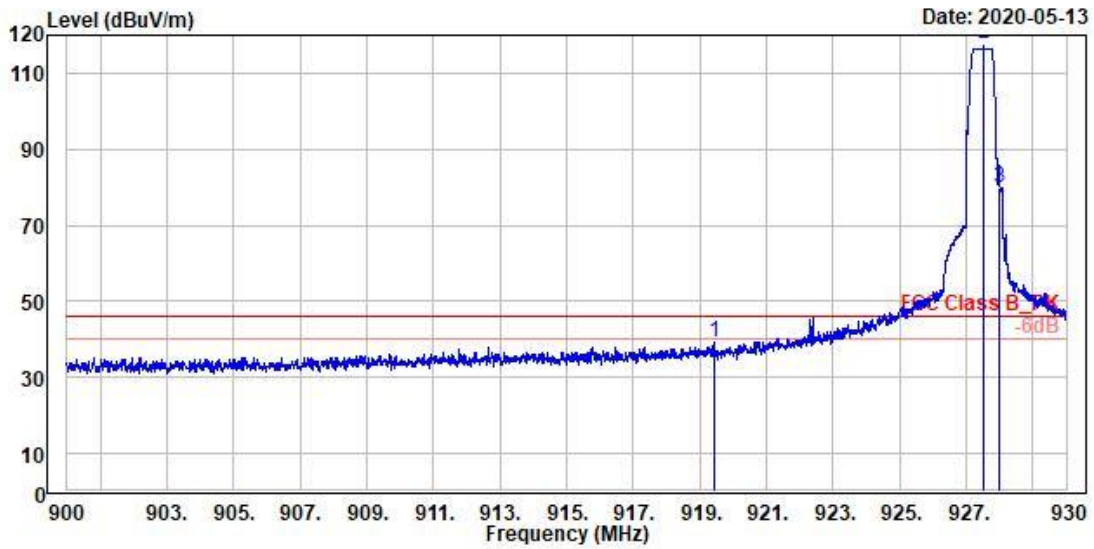
Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK Horizontal
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm			
1 *	927.34	117.00	112.33	4.67	46.00	71.00	100	260 Average	Horizontal



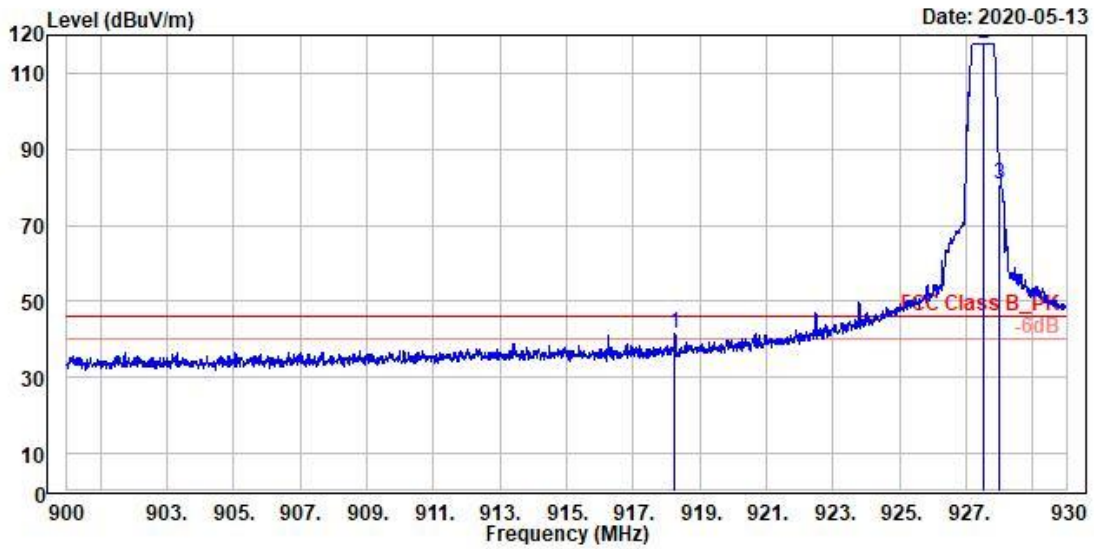
Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK Vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm			
1 *	927.67	117.68	112.99	4.69	46.00	71.68	116	340 Average	Vertical



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK Horizontal
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	919.45	39.29	34.74	4.55	46.00	-6.71	100	260	QP	Horizontal	
2 *	927.50	117.68	113.00	4.68	46.00	71.68	100	260	Peak	Horizontal	
3 *	928.01	79.69	75.00	4.69	46.00	33.69	100	260	QP	Horizontal	



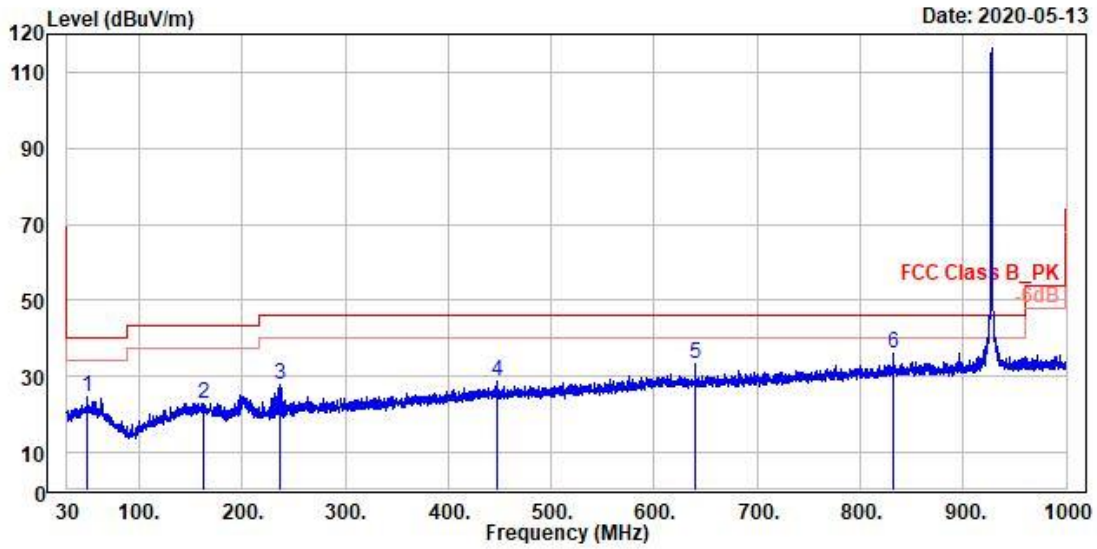
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 Condition : FCC Class B_PK Vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	918.26	41.50	36.98	4.52	46.00	-4.50	116	340	QP	Vertical	
2 *	927.50	117.85	113.17	4.68	46.00	71.85	116	340	Peak	Vertical	
3 *	928.01	80.69	76.00	4.69	46.00	34.69	116	340	QP	Vertical	

Spurious Emissions, TX Mode, 30MHz-1GHz, WLR089UC Alternate Components with External Antenna (RFA-S1-C55H1-150D034)

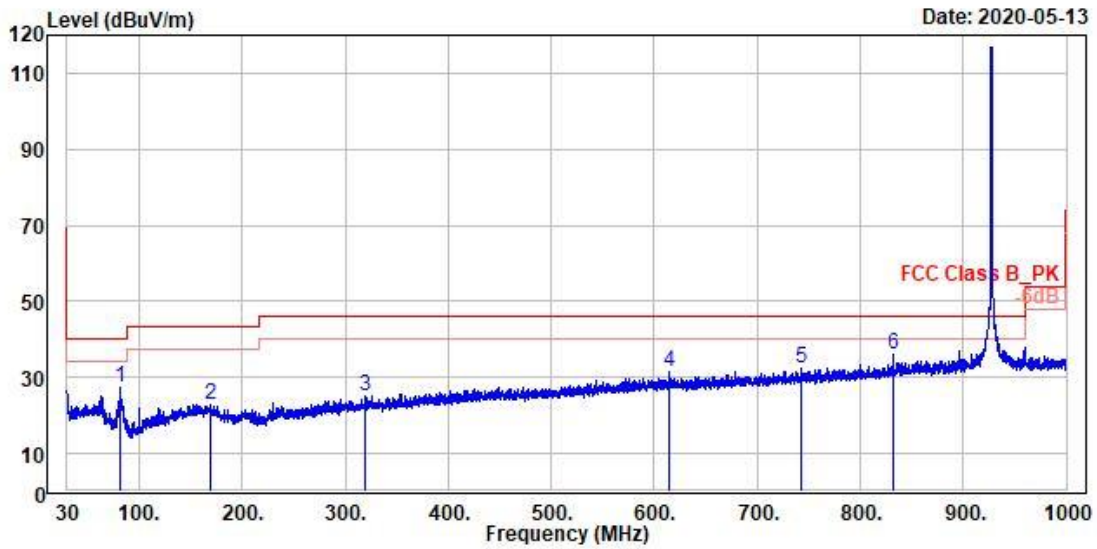


TUV Rheinland Taiwan Ltd.
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 Tel:+886-2172-1000 Fax:+886-2172-1322



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK horizontal
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	49.59	24.52	30.57	-6.05	40.00	-15.48	232	0 QP	horizontal	
2	162.70	22.92	28.84	-5.92	43.50	-20.58	200	360 QP	horizontal	
3	237.39	27.84	34.81	-6.97	46.00	-18.16	100	295 QP	horizontal	
4	448.07	28.95	31.17	-2.22	46.00	-17.05	200	61 QP	horizontal	
5	640.13	33.26	32.70	0.56	46.00	-12.74	100	159 QP	horizontal	
6	832.19	35.87	32.63	3.24	46.00	-10.13	100	83 QP	horizontal	



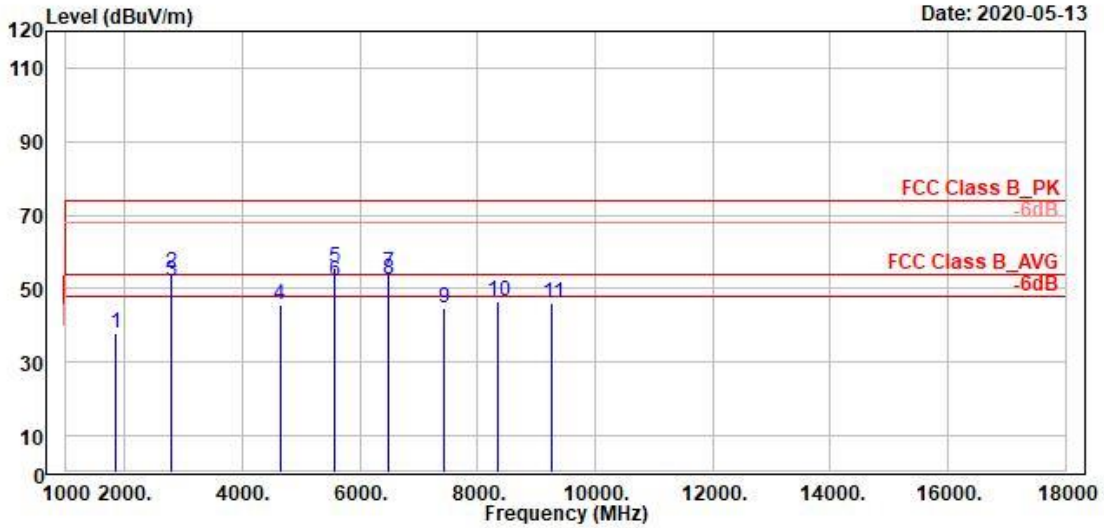
Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	81.80	27.51	38.69	-11.18	40.00	-12.49	120	360	QP	vertical	
2	168.52	22.95	28.95	-6.00	43.50	-20.55	300	357	QP	vertical	
3	320.03	25.28	29.62	-4.34	46.00	-20.72	100	209	QP	vertical	
4	614.52	31.44	31.07	0.37	46.00	-14.56	200	50	QP	vertical	
5	742.76	32.43	30.18	2.25	46.00	-13.57	400	176	QP	vertical	
6	832.19	35.92	32.68	3.24	46.00	-10.08	200	44	QP	vertical	

Spurious Emissions, TX Mode, 1GHz-18GHz, WLR089UC Alternate Components with External Antenna (RFA-S1-C55H1-150D034)



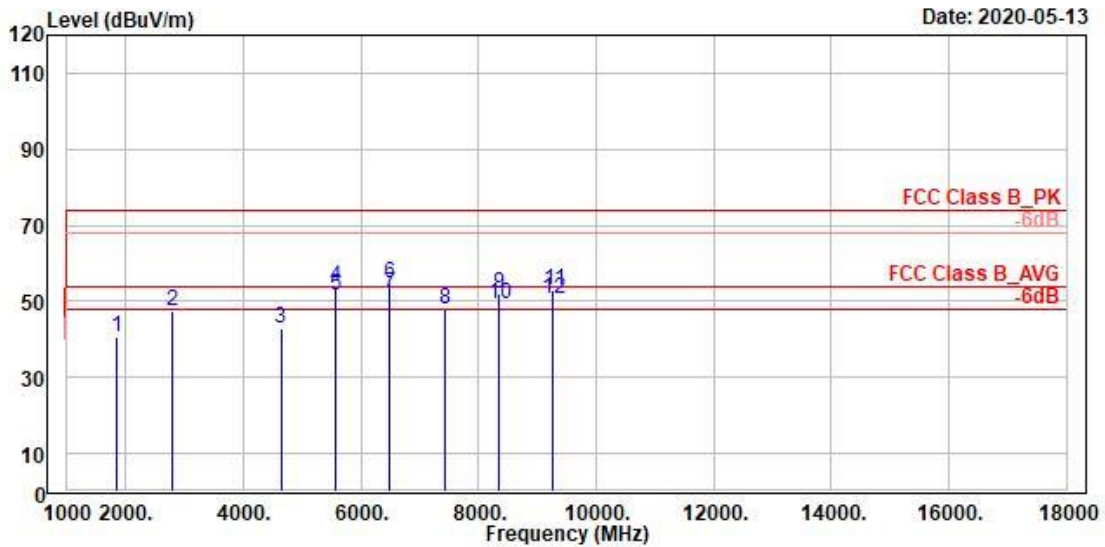
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Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK horizontal
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1855.00	37.91	53.82	-15.91	74.00	-36.09	100	132 Peak	horizontal	
2	2782.50	54.34	67.35	-13.01	74.00	-19.66	266	265 Peak	horizontal	
3 !	2782.50	52.14	65.15	-13.01	54.00	-1.86	266	265 Average	horizontal	
4	4637.50	45.53	55.13	-9.60	74.00	-28.47	100	263 Peak	horizontal	
5	5565.00	55.67	63.87	-8.20	74.00	-18.33	241	218 Peak	horizontal	
6 !	5565.00	52.11	60.31	-8.20	54.00	-1.89	241	218 Average	horizontal	
7	6492.50	54.36	61.74	-7.38	74.00	-19.64	291	243 Peak	horizontal	
8 !	6492.50	52.34	59.72	-7.38	54.00	-1.66	291	243 Average	horizontal	
9	7420.00	44.72	51.46	-6.74	74.00	-29.28	100	182 Peak	horizontal	
10	8347.50	46.54	52.76	-6.22	74.00	-27.46	300	216 Peak	horizontal	
11	9275.00	46.15	50.75	-4.60	74.00	-27.85	300	157 Peak	horizontal	

Note: 1855MHz, 9275MHz and 6492.5MHz in the Non-Restricted Bands



Site : 3m_Semi-Anechoic_Chamber(966_D)
 Condition : FCC Class B_PK vertical
 Test Engineer: Eagle Tsai
 Product : Wireless Module
 Model NO : SAMR34
 Test Rating : 5V
 Tmp/Hum : 21.7°C/50.9%
 Mode : TX_DTS_927.5
 Power setting: 20/sf12
 Antenna : #1

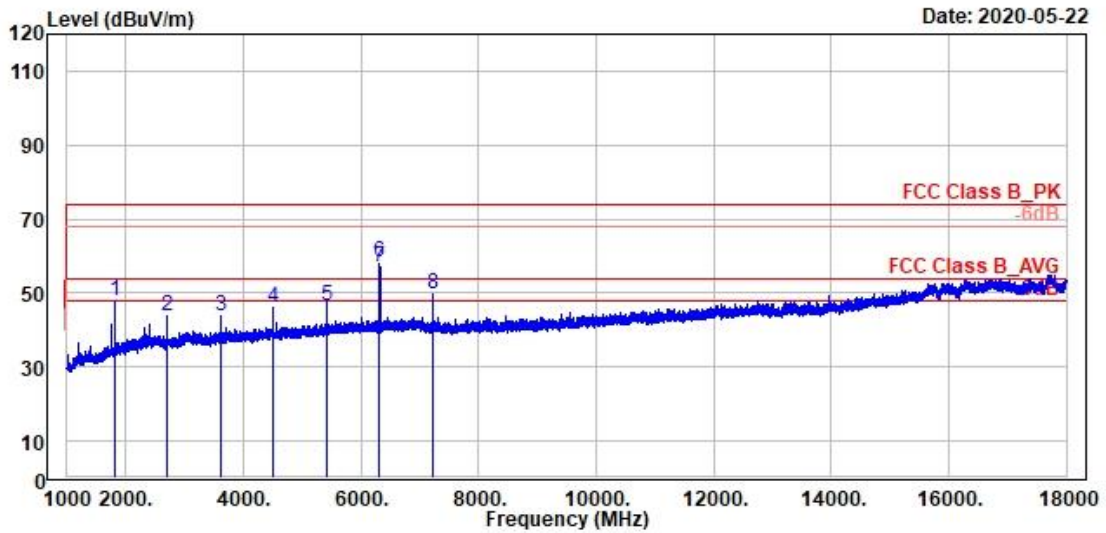
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1855.00	40.75	56.66	-15.91	74.00	-33.25	400	193	Peak	vertical	
2	2782.50	47.54	60.55	-13.01	74.00	-26.46	400	180	Peak	vertical	
3	4637.50	42.96	52.56	-9.60	74.00	-31.04	100	251	Peak	vertical	
4	5565.00	53.85	62.05	-8.20	74.00	-20.15	100	287	Peak	vertical	
5 !	5565.00	51.37	59.57	-8.20	54.00	-2.63	100	287	Average	vertical	
6	6492.50	54.95	62.33	-7.38	74.00	-19.05	103	226	Peak	vertical	
7 !	6492.50	52.23	59.61	-7.38	54.00	-1.77	103	226	Average	Vertical	
8	7420.00	47.97	54.71	-6.74	74.00	-26.03	329	360	Peak	vertical	
9	8347.50	51.84	58.06	-6.22	74.00	-22.16	276	360	Peak	vertical	
10 !	8347.50	49.15	55.37	-6.22	54.00	-4.85	276	360	Average	vertical	
11	9275.00	52.87	57.47	-4.60	74.00	-21.13	372	357	Peak	vertical	
12 !	9275.00	50.58	55.18	-4.60	54.00	-3.42	372	357	Average	vertical	

Note: 1855MHz, 9275MHz and 6492.5MHz in the Non-Restricted Bands

Spurious Emissions, TX Mode, 1GHz-18GHz, WLR089U0 Alternate Components with External Antenna (RFA-S1-C55H1-150D034)

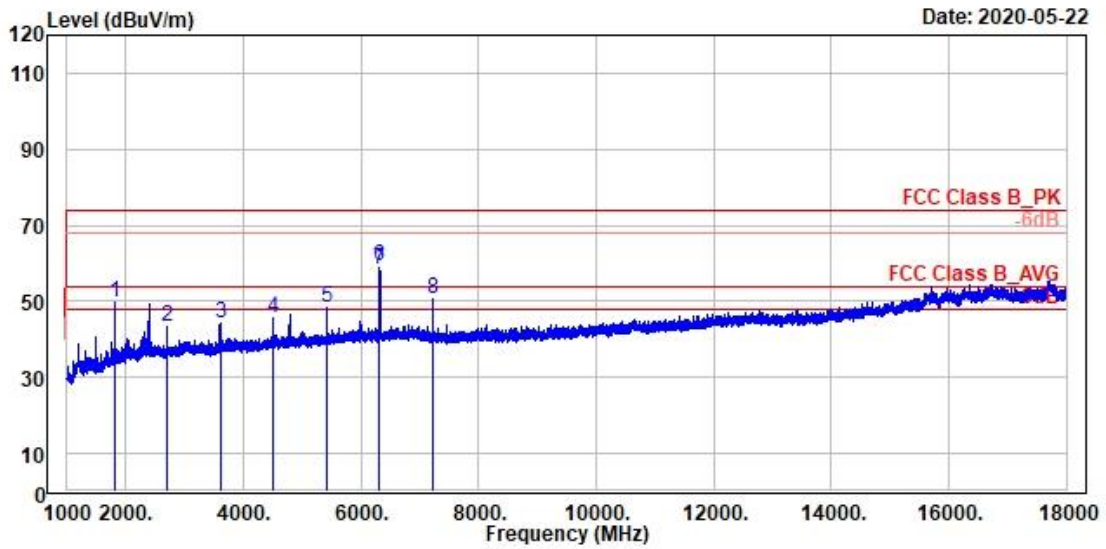


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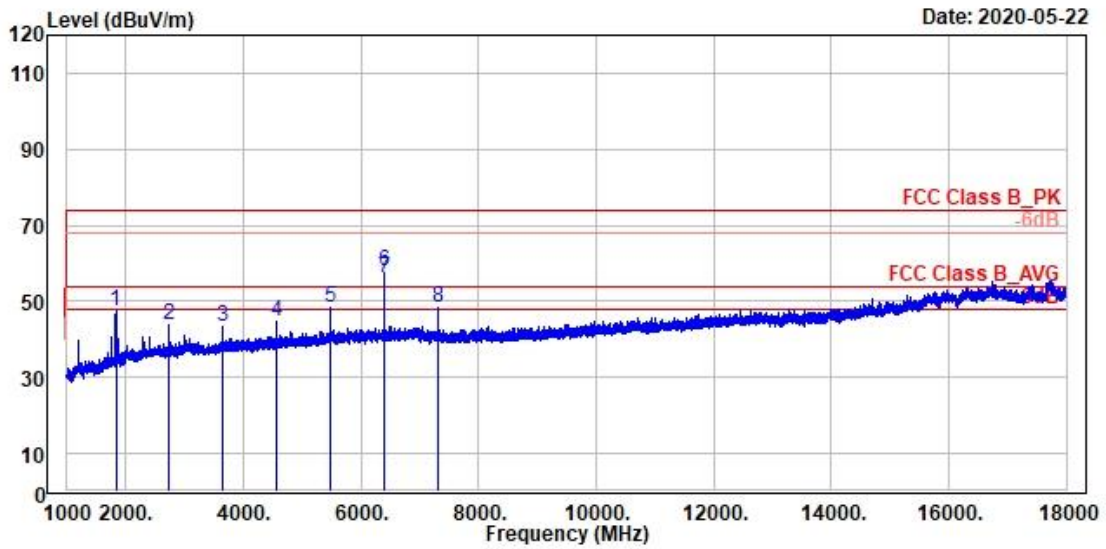
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	1806.00	48.07	64.52	-16.45	74.00	-25.93	300	145 Peak	horizontal	
2	2709.00	43.82	57.16	-13.34	74.00	-30.18	300	159 Peak	horizontal	
3	3612.00	44.01	55.34	-11.33	74.00	-29.99	400	0 Peak	horizontal	
4	4515.00	45.97	55.69	-9.72	74.00	-28.03	400	132 Peak	horizontal	
5	5418.00	46.70	54.96	-8.26	74.00	-27.30	400	360 Peak	horizontal	
6	6321.00	58.24	65.68	-7.44	74.00	-15.76	100	34 Peak	horizontal	Non-RB
7 *	6321.00	56.98	64.42	-7.44	54.00	2.98	100	34 Average	horizontal	Non-RB
8	7224.00	49.71	56.48	-6.77	74.00	-24.29	100	359 Peak	horizontal	

Note: 1806MHz in the Non-Restricted Bands



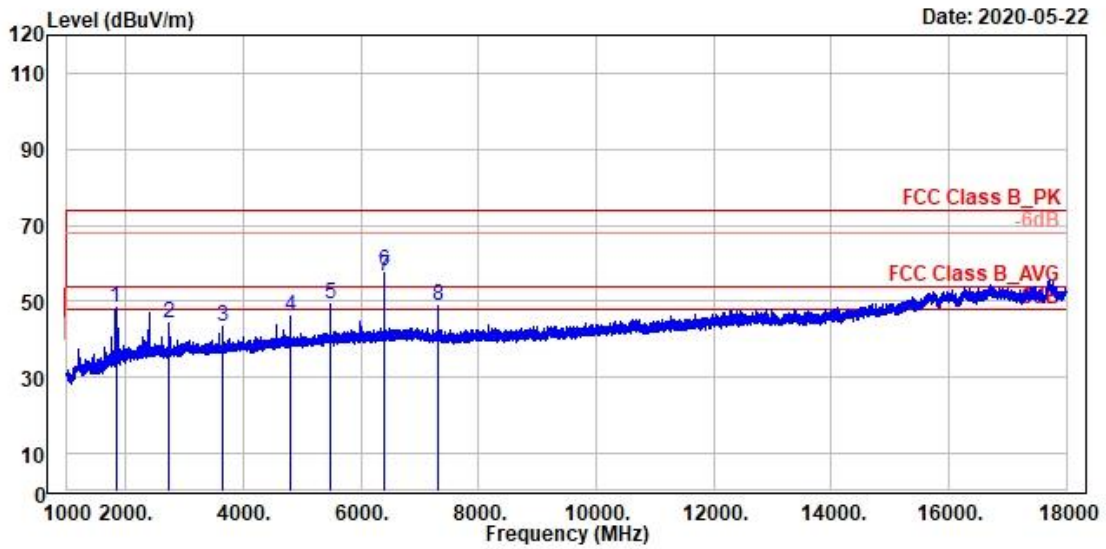
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1806.00	49.81	66.26	-16.45	74.00	-24.19	300	6	Peak	vertical	
2	2709.00	43.54	56.88	-13.34	74.00	-30.46	400	176	Peak	vertical	
3	3612.00	44.35	55.68	-11.33	74.00	-29.65	300	342	Peak	vertical	
4	4515.00	45.50	55.22	-9.72	74.00	-28.50	300	131	Peak	vertical	
5	5418.00	48.53	56.79	-8.26	74.00	-25.47	300	16	Peak	vertical	
6	6321.00	59.38	66.82	-7.44	74.00	-14.62	380	0	Peak	vertical	Non-RB
7 *	6321.00	58.22	65.66	-7.44	54.00	4.22	380	0	Average	vertical	Non-RB
8	7224.00	50.63	57.40	-6.77	74.00	-23.37	100	104	Peak	vertical	

Note: 1806MHz in the Non-Restricted Bands



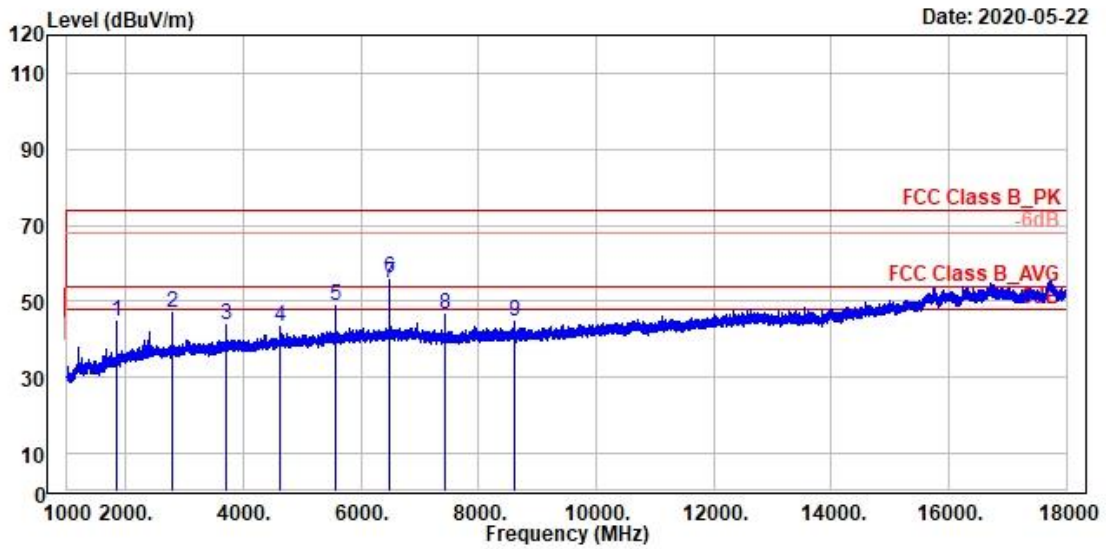
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1828.28	47.62	63.81	-16.19	74.00	-26.38	300	83	Peak	horizontal	
2	2741.56	43.85	56.95	-13.10	74.00	-30.15	300	159	Peak	horizontal	
3	3655.78	43.30	54.50	-11.20	74.00	-30.70	400	326	Peak	horizontal	
4	4570.94	44.80	54.52	-9.72	74.00	-29.20	300	138	Peak	horizontal	
5	5486.11	48.37	56.51	-8.14	74.00	-25.63	300	217	Peak	horizontal	
6	6399.40	57.73	65.14	-7.41	74.00	-16.27	108	26	Peak	horizontal	Non-RB
7 *	6399.40	56.18	63.59	-7.41	54.00	2.18	108	26	Average	horizontal	Non-RB
8	7312.67	48.46	55.17	-6.71	74.00	-25.54	400	332	Peak	horizontal	

Note: 1828.28MHz in the Non-Restricted Bands



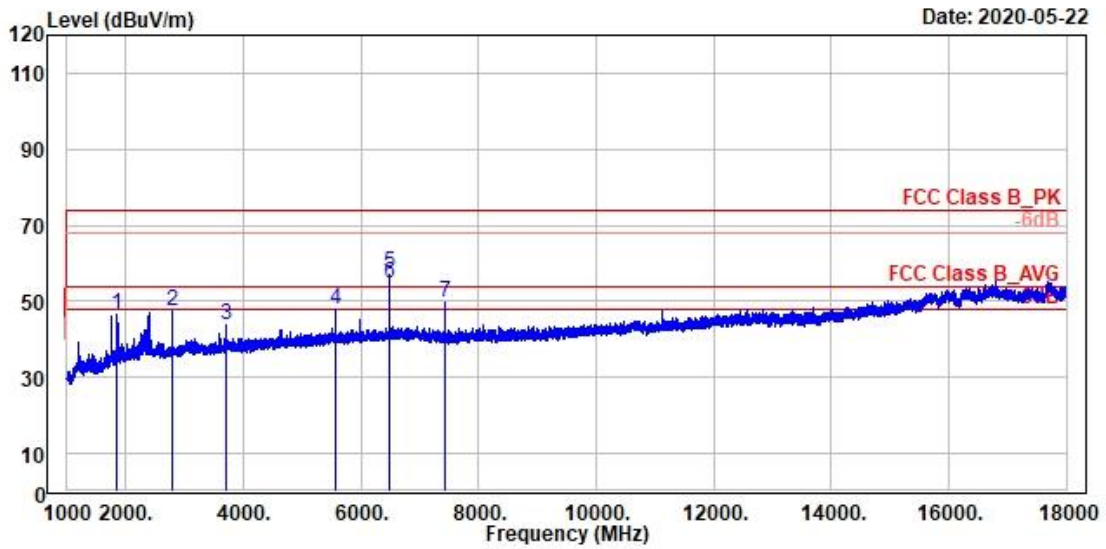
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1828.28	48.41	64.60	-16.19	74.00	-25.59	252	0	Peak	vertical	Non-RB
2	2742.50	44.11	57.20	-13.09	74.00	-29.89	400	176	Peak	vertical	
3	3656.72	43.22	54.42	-11.20	74.00	-30.78	100	232	Peak	vertical	
4	4796.67	46.22	55.66	-9.44	74.00	-27.78	135	360	Peak	vertical	
5	5485.17	49.21	57.35	-8.14	74.00	-24.79	260	0	Peak	vertical	
6	6399.40	57.93	65.34	-7.41	74.00	-16.07	146	202	Peak	vertical	Non-RB
7 *	6399.40	56.65	64.06	-7.41	54.00	2.65	146	202	Average	Vertical	
8	7312.67	48.97	55.68	-6.71	74.00	-25.03	100	104	Peak	vertical	

Note: 1828.28MHz and 6399.4MHz in the Non-Restricted Bands



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1855.67	44.84	60.74	-15.90	74.00	-29.16	300	126	Peak	horizontal	
2	2781.22	46.84	59.85	-13.01	74.00	-27.16	100	221	Peak	horizontal	
3	3709.61	43.91	54.92	-11.01	74.00	-30.09	300	296	Peak	horizontal	
4	4636.11	43.55	53.16	-9.61	74.00	-30.45	400	200	Peak	horizontal	
5	5565.44	48.66	56.87	-8.21	74.00	-25.34	400	356	Peak	horizontal	
6	6492.50	56.00	63.38	-7.38	74.00	-18.00	267	16	Peak	horizontal	Non-RB
7 *	6492.50	54.53	61.91	-7.38	54.00	0.53	267	16	Average	horizontal	Non-RB
8	7421.28	46.35	53.09	-6.74	74.00	-27.65	400	80	Peak	horizontal	
9	8616.94	44.83	50.76	-5.93	74.00	-29.17	100	148	Peak	horizontal	

Note: 1855.67MHz in the Non-Restricted Bands



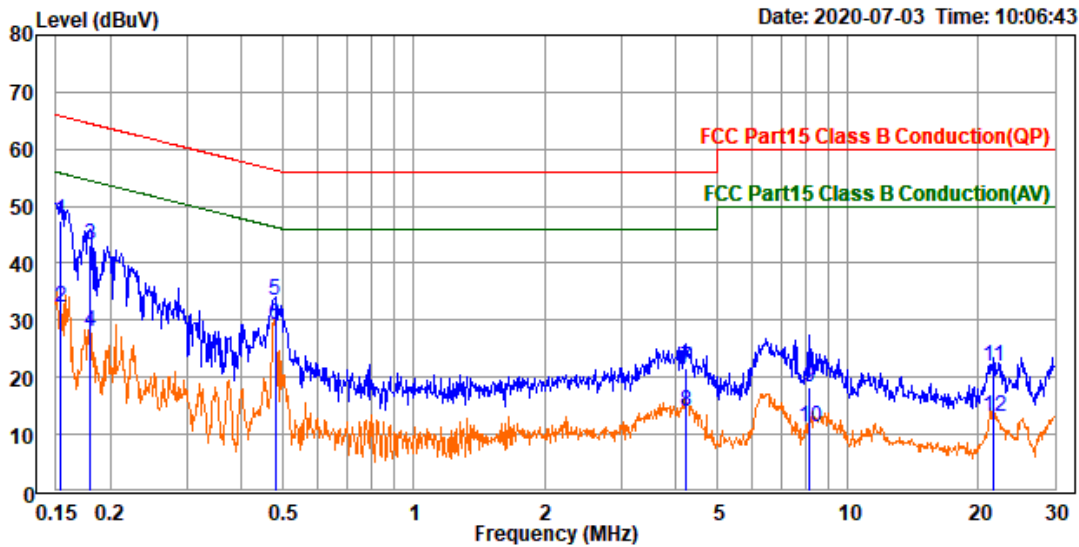
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1854.72	46.56	62.47	-15.91	74.00	-27.44	400	200	Peak	vertical	
2	2781.22	47.43	60.44	-13.01	74.00	-26.57	200	360	Peak	vertical	
3	3709.61	43.88	54.89	-11.01	74.00	-30.12	200	327	Peak	vertical	
4	5565.44	48.13	56.34	-8.21	74.00	-25.87	100	251	Peak	vertical	
5	6492.50	57.56	64.94	-7.38	74.00	-16.44	294	161	Peak	vertical	Non-RB
6 *	6492.50	54.76	62.14	-7.38	54.00	0.76	294	161	Average	vertical	Non-RB
7	7418.44	49.83	56.58	-6.75	74.00	-24.17	100	241	Peak	vertical	

Note: 1854.72MHz in the Non-Restricted Bands

Spurious Emissions, AC Mains

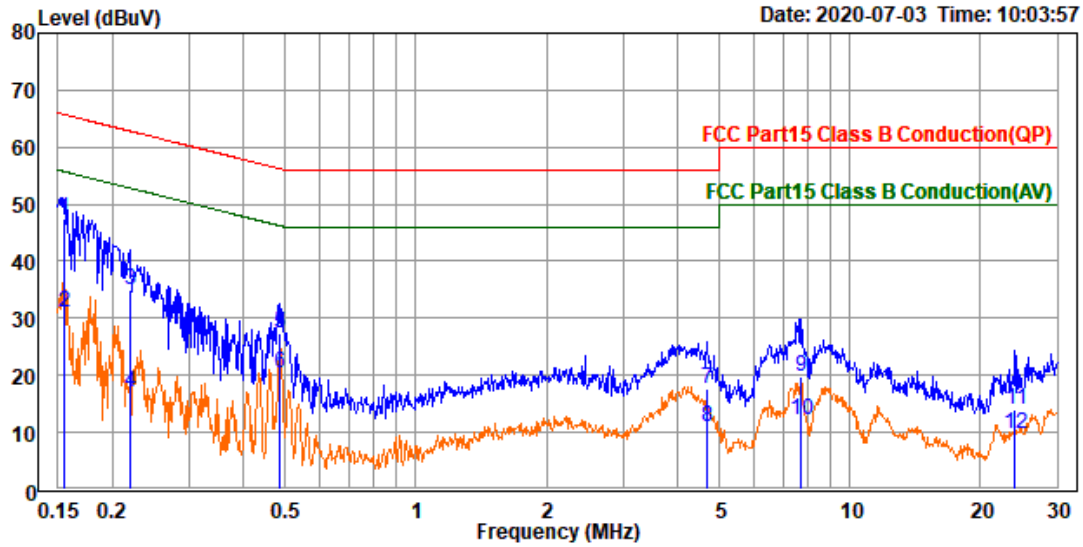


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Date: 2020-07-03 Time: 10:06:43

	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.153	37.48	10.11	47.59	65.83	-18.24	QP	neutral	
2	0.153	22.13	10.11	32.24	55.83	-23.59	Average	neutral	
3	0.179	33.00	10.11	43.11	64.51	-21.40	QP	neutral	
4	0.179	17.91	10.11	28.02	54.51	-26.49	Average	neutral	
5	0.479	23.24	10.11	33.35	56.35	-23.00	QP	neutral	
6	0.479	19.00	10.11	29.11	46.35	-17.24	Average	neutral	
7	4.252	11.50	10.22	21.72	56.00	-34.28	QP	neutral	
8	4.252	3.65	10.22	13.87	46.00	-32.13	Average	neutral	
9	8.128	7.87	10.31	18.18	60.00	-41.82	QP	neutral	
10	8.128	0.82	10.31	11.13	50.00	-38.87	Average	neutral	
11	21.590	11.22	10.59	21.81	60.00	-38.19	QP	neutral	
12	21.590	2.57	10.59	13.16	50.00	-36.84	Average	neutral	



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.155	37.37	10.11	47.48	65.71	-18.23	QP	line1	
2	0.155	20.96	10.11	31.07	55.71	-24.64	Average	line1	
3	0.219	24.92	10.11	35.03	62.85	-27.82	QP	line1	
4	0.219	6.81	10.11	16.92	52.85	-35.93	Average	line1	
5	0.484	17.30	10.12	27.42	56.27	-28.85	QP	line1	
6	0.484	10.16	10.12	20.28	46.27	-25.99	Average	line1	
7	4.674	7.33	10.24	17.57	56.00	-38.43	QP	line1	
8	4.674	0.86	10.24	11.10	46.00	-34.90	Average	line1	
9	7.733	9.61	10.31	19.92	60.00	-40.08	QP	line1	
10	7.733	1.99	10.31	12.30	50.00	-37.70	Average	line1	
11	23.972	3.36	10.58	13.94	60.00	-46.06	QP	line1	
12	23.972	-0.74	10.58	9.84	50.00	-40.16	Average	line1	