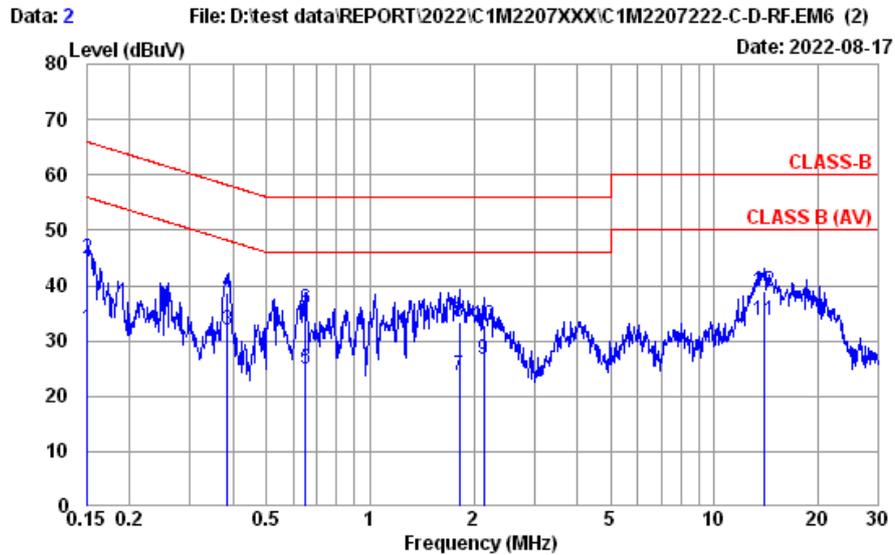


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A.1 CONDUCTED EMISSION

Test Date	2022/08/17	Temp./Hum.	26°C/49%
Test Voltage	DC 3.3V	Tested By	Roy Hung

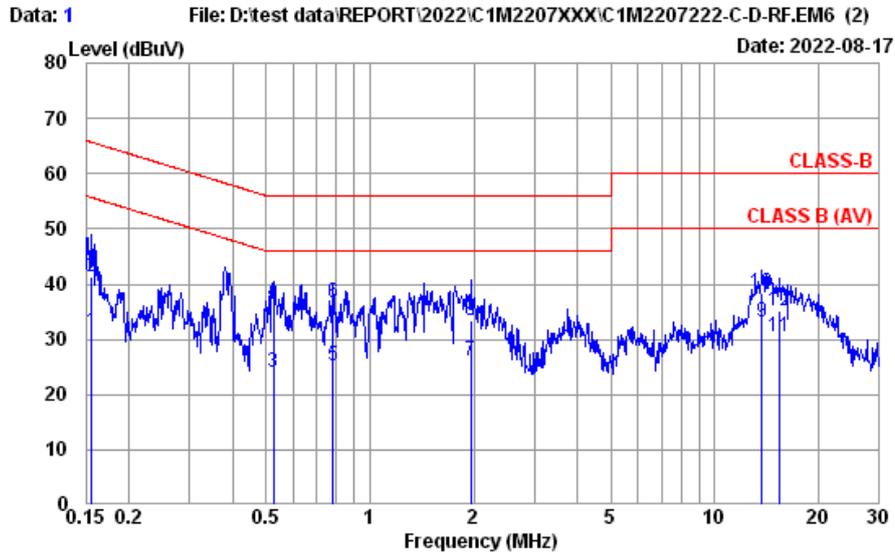


Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR3(774)		
Instrument 2	: EHV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B	Phase	: NEUTRAL
Environment	: 26°C / 49%	Engineer	: DC3.3V
EUT Model	: WL25B21	Test Rating	: 110Vac/60Hz
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.151	10.34	0.03	9.85	12.10	32.32	55.96	23.64	Average
2	0.151	10.34	0.03	9.85	24.65	44.87	65.96	21.09	QP
3	0.385	10.32	0.03	9.85	11.86	32.06	48.17	16.11	Average
4	0.385	10.32	0.03	9.85	18.57	38.77	58.17	19.40	QP
5	0.647	10.33	0.04	9.85	4.80	25.02	46.00	20.98	Average
6	0.647	10.33	0.04	9.85	15.43	35.65	56.00	20.35	QP
7	1.819	10.36	0.06	9.86	3.31	23.59	46.00	22.41	Average
8	1.819	10.36	0.06	9.86	13.18	33.46	56.00	22.54	QP
9	2.144	10.36	0.06	9.86	6.51	26.79	46.00	19.21	Average
10	2.144	10.36	0.06	9.86	12.43	32.71	56.00	23.29	QP
11	13.989	10.83	0.16	9.91	12.70	33.60	50.00	16.40	Average
12	13.989	10.83	0.16	9.91	17.99	38.89	60.00	21.11	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Test Date	2022/08/17	Temp./Hum.	26°C/49%
Test Voltage	DC 3.3V	Tested By	Roy Hung



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR3(774)		
Instrument 2	: EHV432 (567)(A) CE-08 ESH3-22 (354)		
Limit	: CLASS-B	Phase	: LINE
Environment	: 26°C / 49%	Engineer	: Roy Hung
EUT Model	: WL2SB21	Test Rating	: DC3.3V
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.156	10.22	0.03	9.85	11.11	31.21	55.69	24.48	Average
2	0.156	10.22	0.03	9.85	21.16	41.26	65.69	24.43	QP
3	0.524	10.22	0.03	9.85	3.83	23.93	46.00	22.07	Average
4	0.524	10.22	0.03	9.85	16.60	36.70	56.00	19.30	QP
5	0.779	10.23	0.04	9.85	5.08	25.20	46.00	20.80	Average
6	0.779	10.23	0.04	9.85	16.40	36.52	56.00	19.48	QP
7	1.959	10.25	0.06	9.86	5.80	25.97	46.00	20.03	Average
8	1.959	10.25	0.06	9.86	13.11	33.28	56.00	22.72	QP
9	13.695	10.52	0.16	9.91	12.52	33.11	50.00	16.89	Average
10	13.695	10.52	0.16	9.91	17.71	38.30	60.00	21.70	QP
11	15.470	10.56	0.17	9.91	9.90	30.54	50.00	19.46	Average
12	15.470	10.56	0.17	9.91	14.65	35.29	60.00	24.71	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

A.2 RADIATED EMISSION

Test Date	2022/07/01~29	Temp./Hum.	23~26°C/49~60%
Test Voltage	DC 3.3V	Tested By	Kuper Hsu

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 0	Frequency	TX 5788.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
55.220	13.00	1.92	26.43	46.78	35.27	40.00	4.73	Peak
167.740	15.40	3.39	25.91	44.83	37.71	43.50	5.79	Peak
253.100	18.26	4.28	25.69	39.42	36.27	46.00	9.73	Peak
666.320	24.63	7.46	27.42	32.39	37.06	46.00	8.94	Peak
923.370	26.49	8.88	26.90	28.60	37.07	46.00	8.93	Peak
966.050	26.85	9.11	26.75	28.82	38.03	54.00	15.97	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
60.070	12.20	2.00	26.42	48.13	35.91	40.00	4.09	Peak
105.660	16.96	2.68	26.25	46.90	40.29	43.50	3.21	Peak
443.220	22.19	6.31	26.74	31.69	33.45	46.00	12.55	Peak
485.900	22.89	6.65	27.04	33.86	36.36	46.00	9.64	Peak
958.290	26.80	9.08	26.78	29.07	38.17	46.00	7.83	Peak
987.390	27.02	9.22	26.69	28.57	38.12	54.00	15.88	Peak

Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 1	Frequency	TX 5247.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.790	20.71	1.57	26.48	35.29	31.09	40.00	8.91	Peak
167.740	15.40	3.39	25.91	44.58	37.46	43.50	6.04	Peak
332.640	19.89	5.13	25.90	36.13	35.25	46.00	10.75	Peak
485.900	22.89	6.65	27.04	33.27	35.77	46.00	10.23	Peak
957.320	26.80	9.08	26.78	29.40	38.50	46.00	7.50	Peak
973.810	26.91	9.15	26.72	28.46	37.80	54.00	16.20	Peak

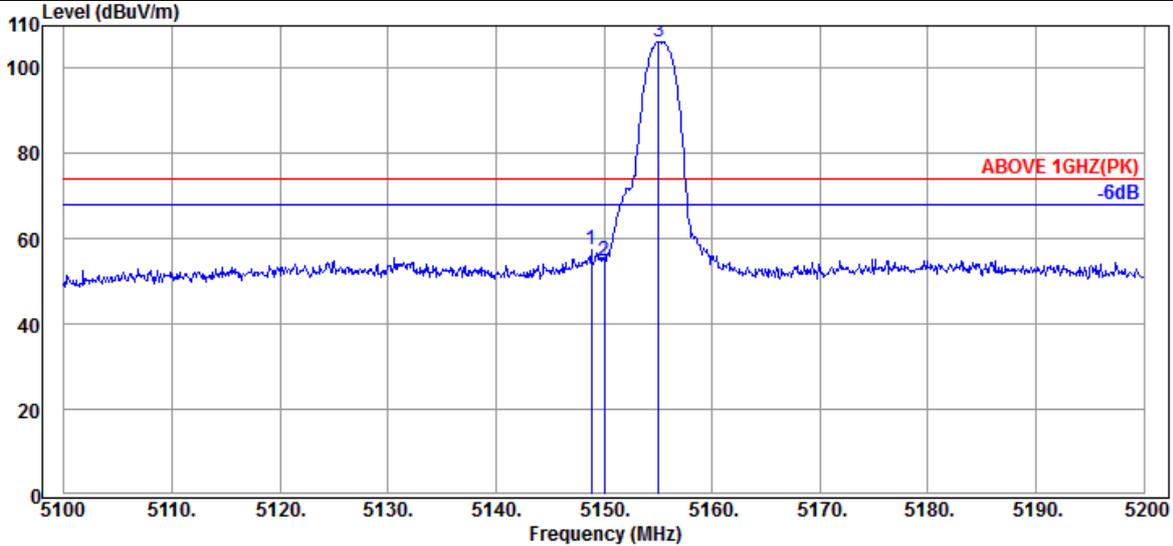
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
60.070	12.20	2.00	26.42	48.24	36.02	40.00	3.98	Peak
147.370	16.47	3.17	26.01	38.43	32.06	43.50	11.44	Peak
443.220	22.19	6.31	26.74	31.07	32.83	46.00	13.17	Peak
485.900	22.89	6.65	27.04	34.30	36.80	46.00	9.20	Peak
935.980	26.60	8.95	26.87	28.54	37.22	46.00	8.78	Peak
973.810	26.91	9.15	26.72	29.16	38.50	54.00	15.50	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

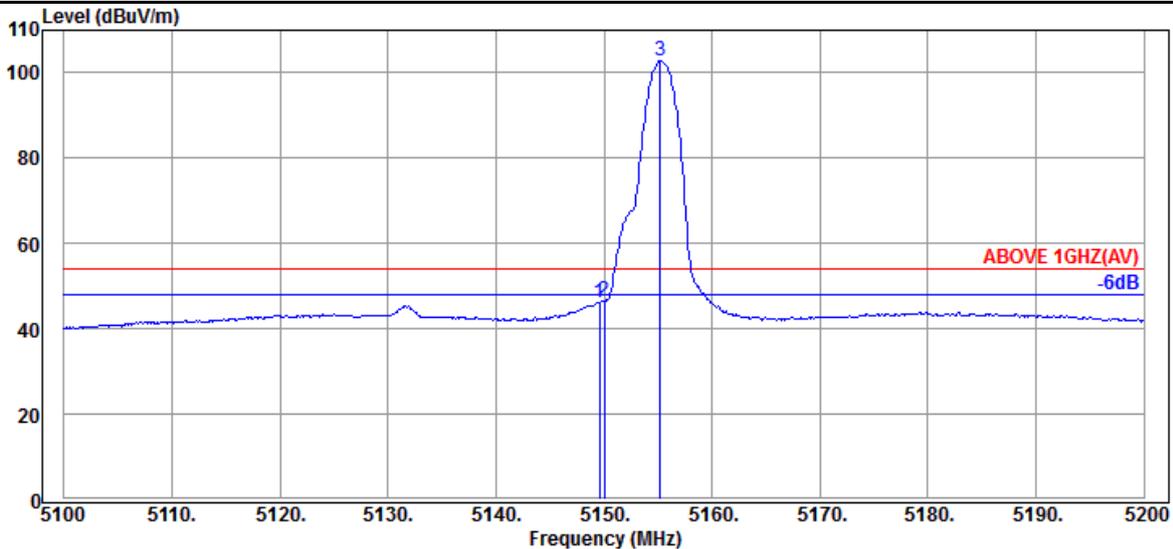
Band Edge:

Mode	pi/4-shifted DQPSK	U-NII Band	1
Antenna	Ant 0	Frequency	TX 5155.35MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.800	34.20	11.20	34.35	46.32	57.37	74.00	16.63	Peak
5150.000	34.20	11.20	34.35	43.95	55.00	74.00	19.00	Peak
@ 5155.100	34.20	11.21	34.35	95.26	106.32	---	---	Peak

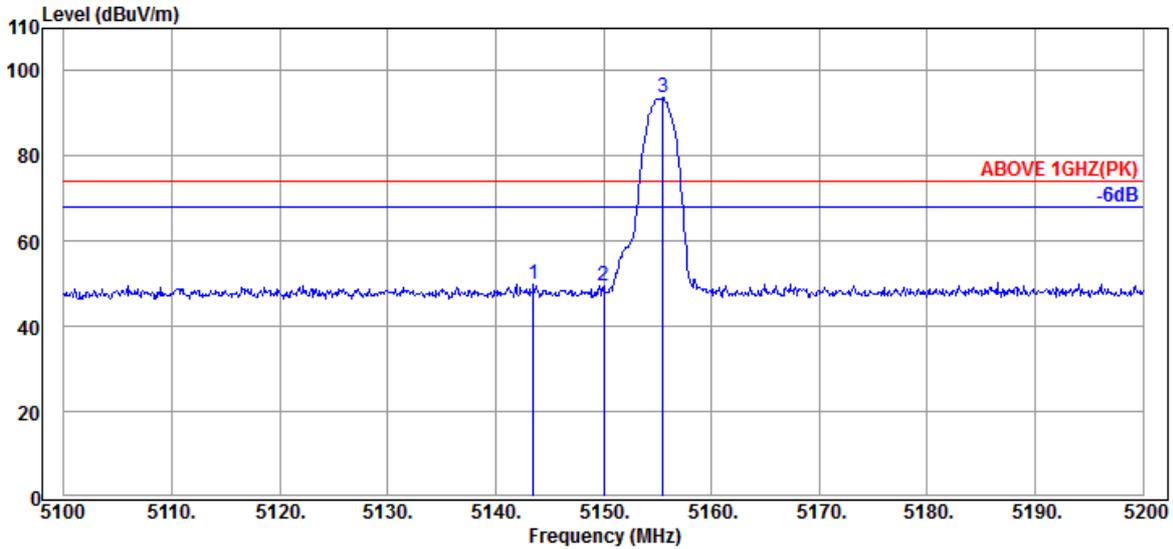


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.600	34.20	11.20	34.35	35.11	46.16	54.00	7.84	Average
5150.000	34.20	11.20	34.35	35.40	46.45	54.00	7.55	Average
@ 5155.200	34.20	11.21	34.35	91.81	102.87	---	---	Average

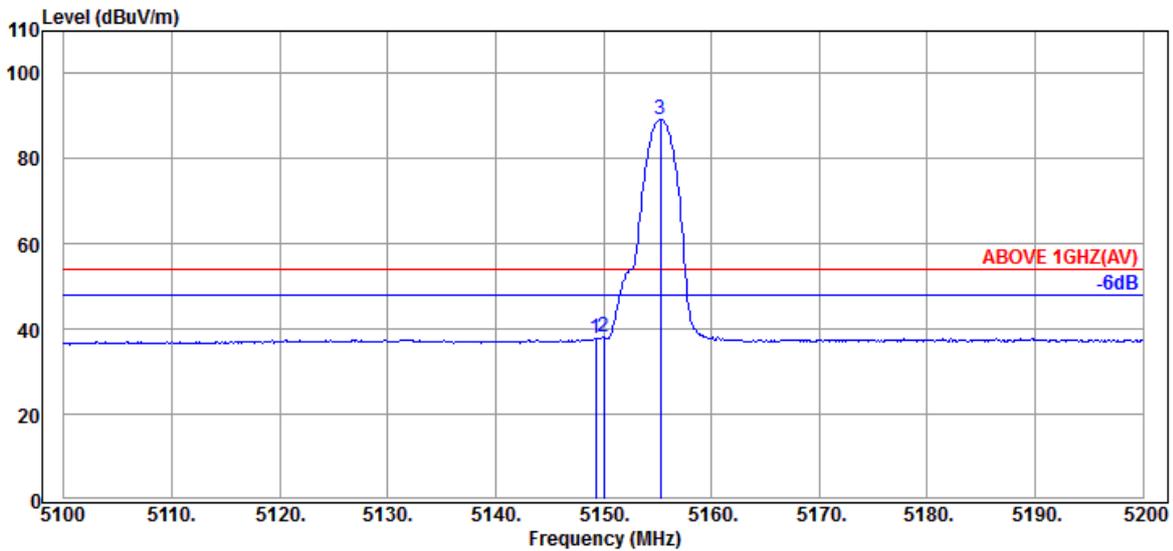
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	pi/4-shifted DQPSK	U-NII Band	1
Antenna	Ant 0	Frequency	TX 5155.35MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5143.500	34.20	11.20	34.36	38.82	49.86	74.00	24.14	Peak
5150.000	34.20	11.20	34.35	38.52	49.57	74.00	24.43	Peak
@ 5155.500	34.20	11.21	34.35	82.67	93.73	---	---	Peak



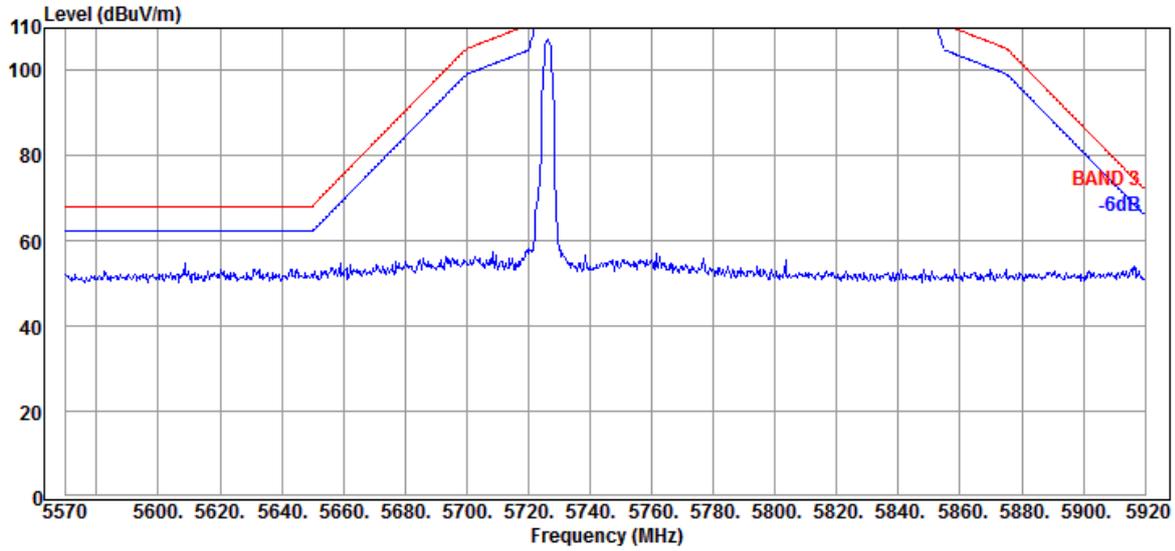
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.300	34.20	11.20	34.35	26.88	37.93	54.00	16.07	Average
5150.000	34.20	11.20	34.35	27.06	38.11	54.00	15.89	Average
@ 5155.300	34.20	11.21	34.35	78.18	89.24	---	---	Average

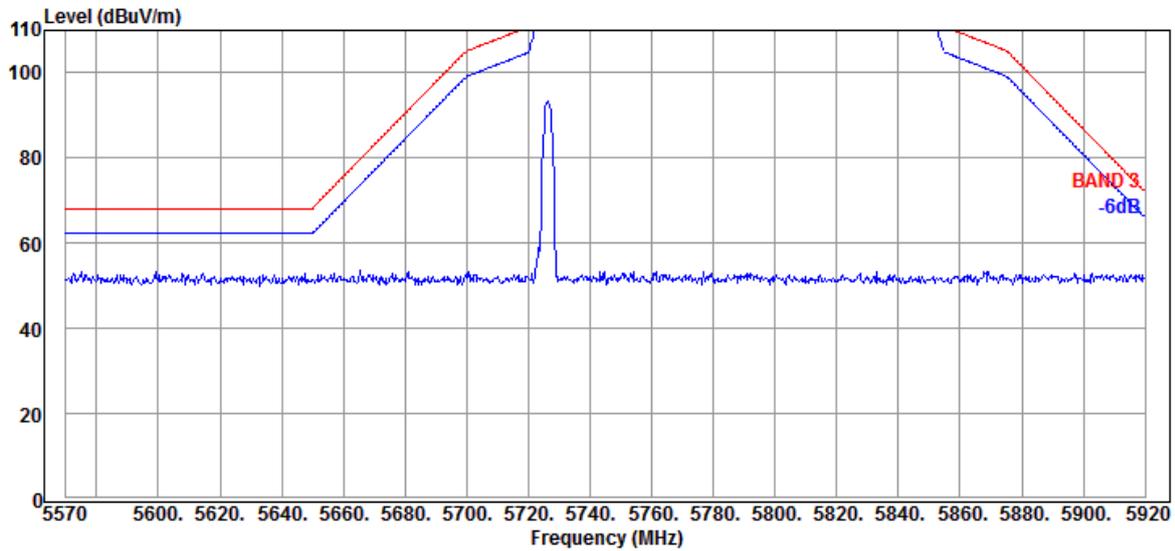
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 0	Frequency	TX 5726.35MHz

Antenna at Horizontal Polarization

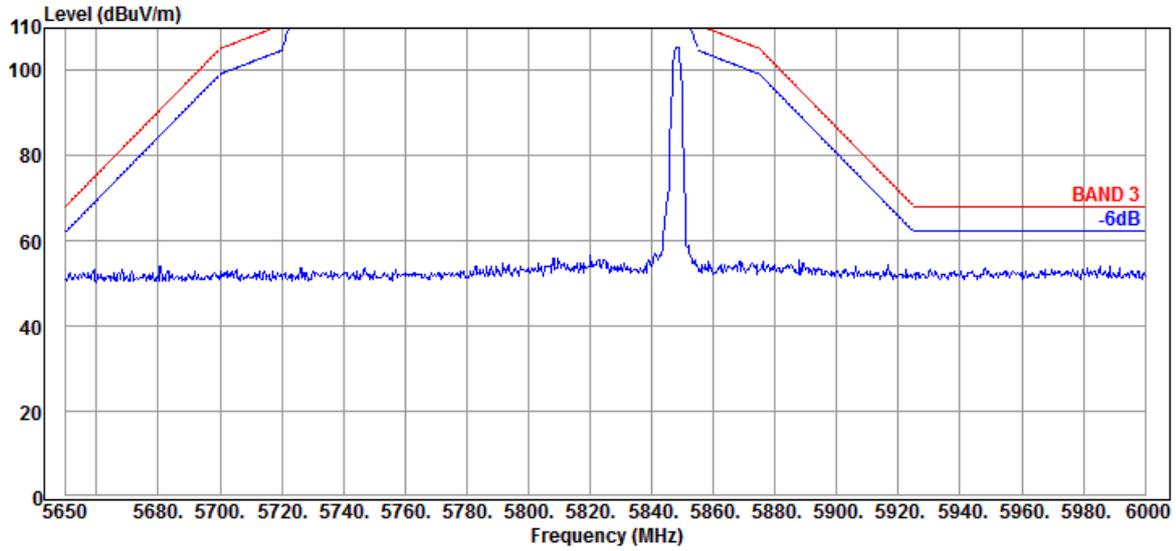


Antenna at Vertical Polarization

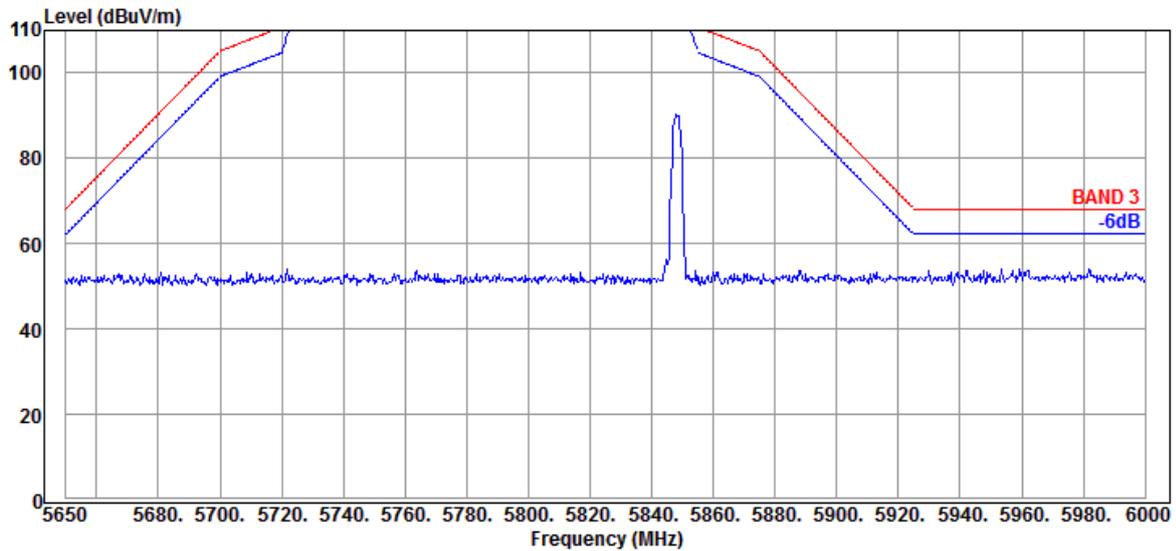


Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 0	Frequency	TX 5848.35MHz

Antenna at Horizontal Polarization

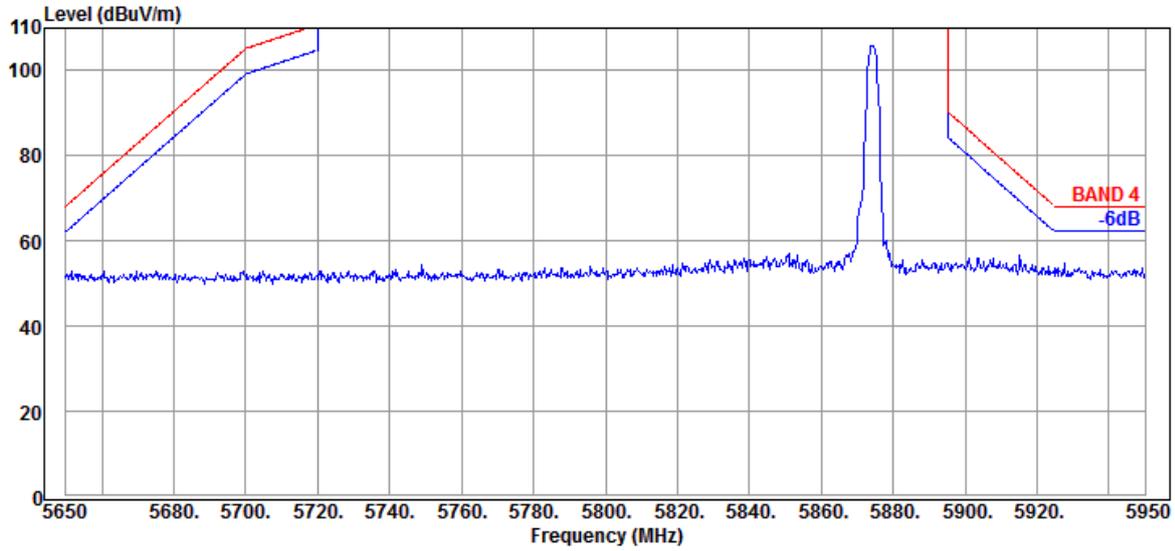


Antenna at Vertical Polarization

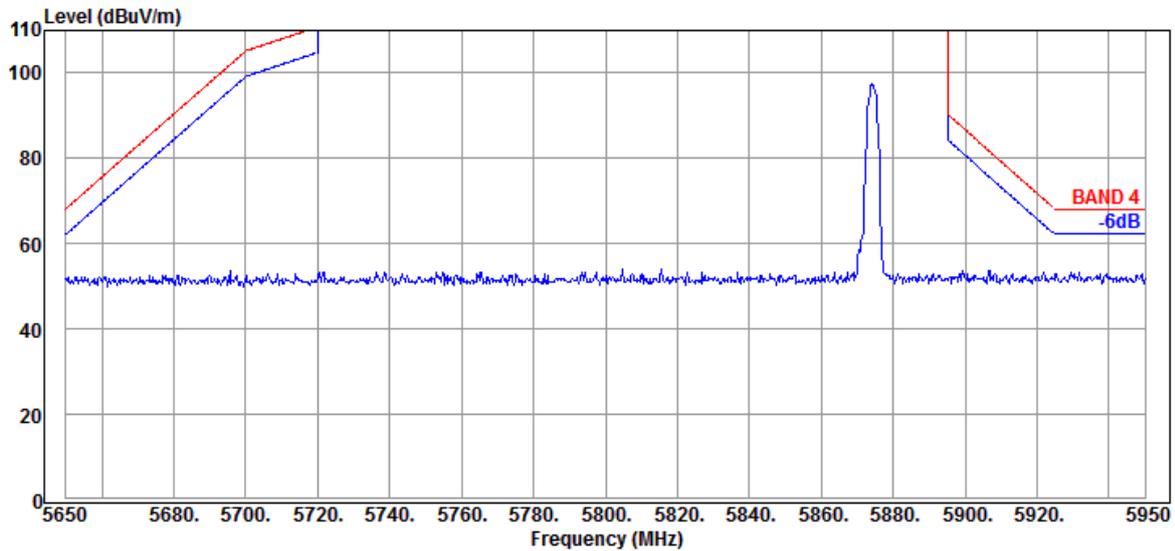


Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 0	Frequency	TX 5874.35MHz

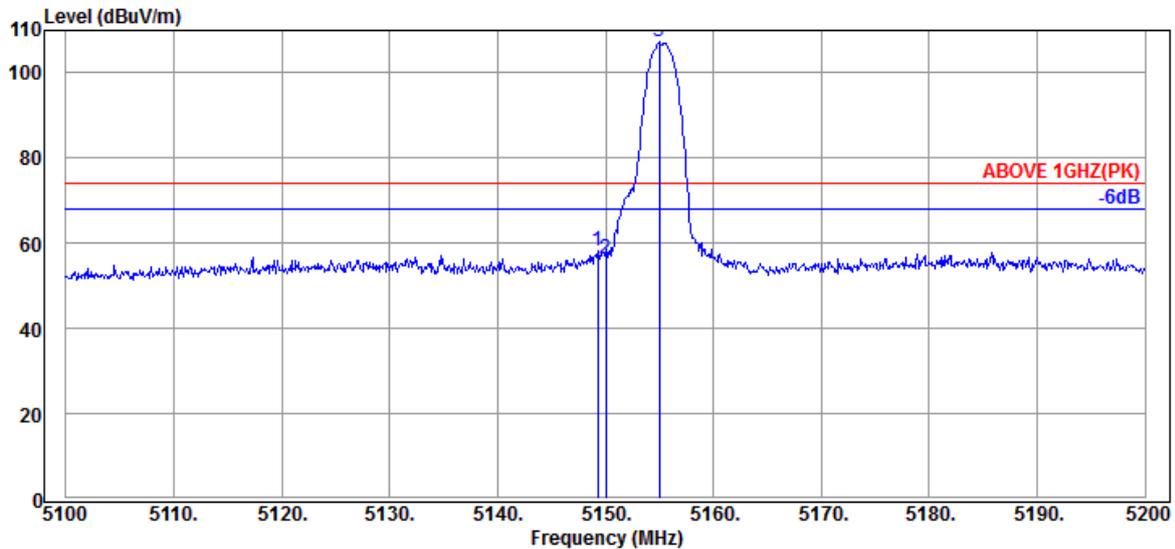
Antenna at Horizontal Polarization



Antenna at Vertical Polarization

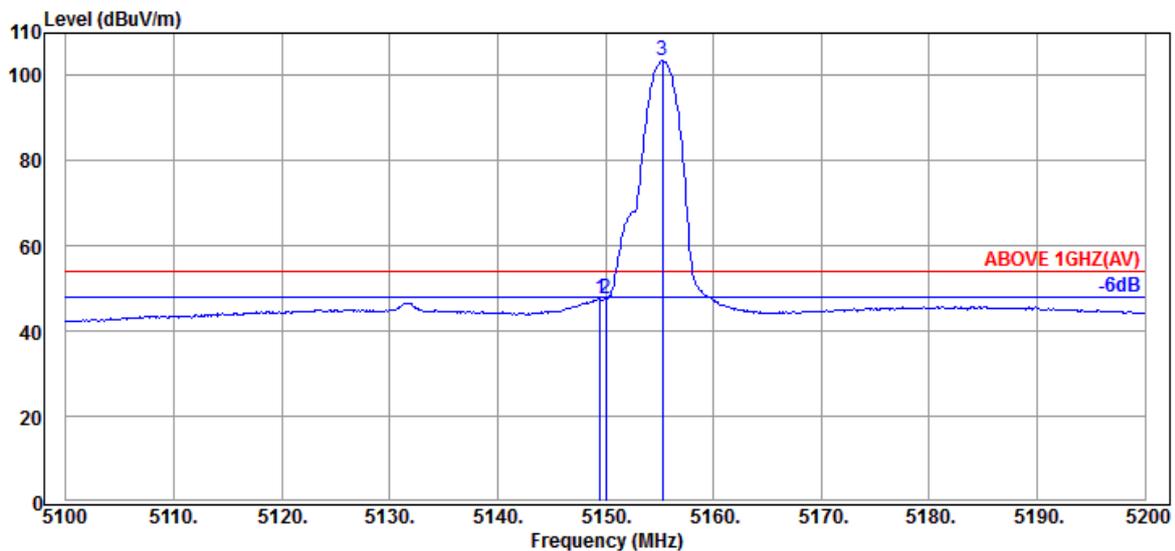


Mode	pi/4-shifted DQPSK	U-NII Band	1
Antenna	Ant 1	Frequency	TX 5155.35MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.300	34.20	11.20	34.35	47.20	58.25	74.00	15.75	Peak
5150.000	34.20	11.20	34.35	45.41	56.46	74.00	17.54	Peak
@ 5155.000	34.20	11.21	34.35	96.11	107.17	---	---	Peak

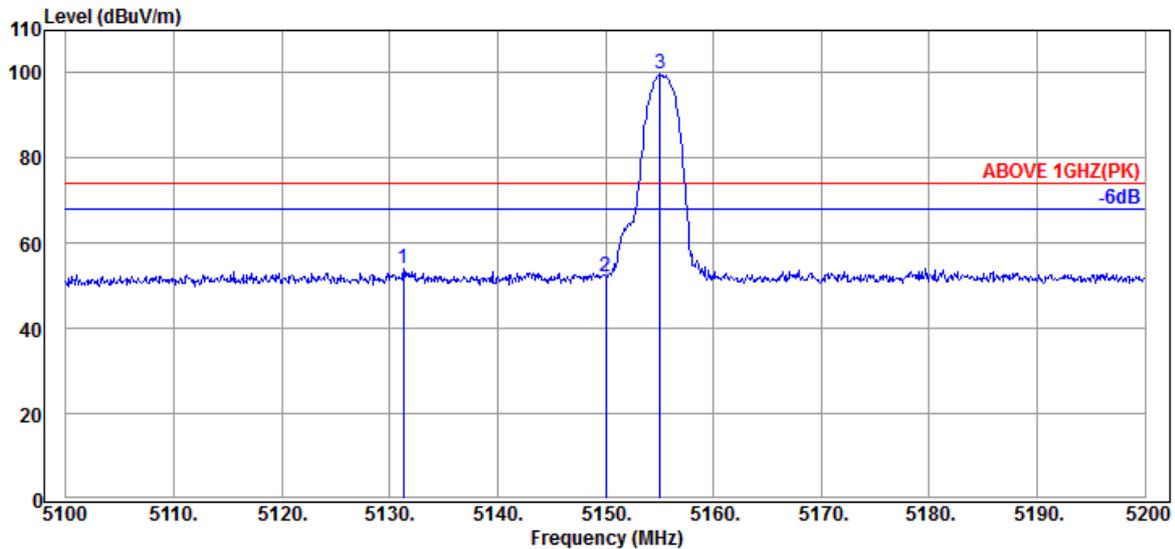


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.500	34.20	11.20	34.35	36.53	47.58	54.00	6.42	Average
5150.000	34.20	11.20	34.35	36.52	47.57	54.00	6.43	Average
@ 5155.300	34.20	11.21	34.35	92.46	103.52	---	---	Average

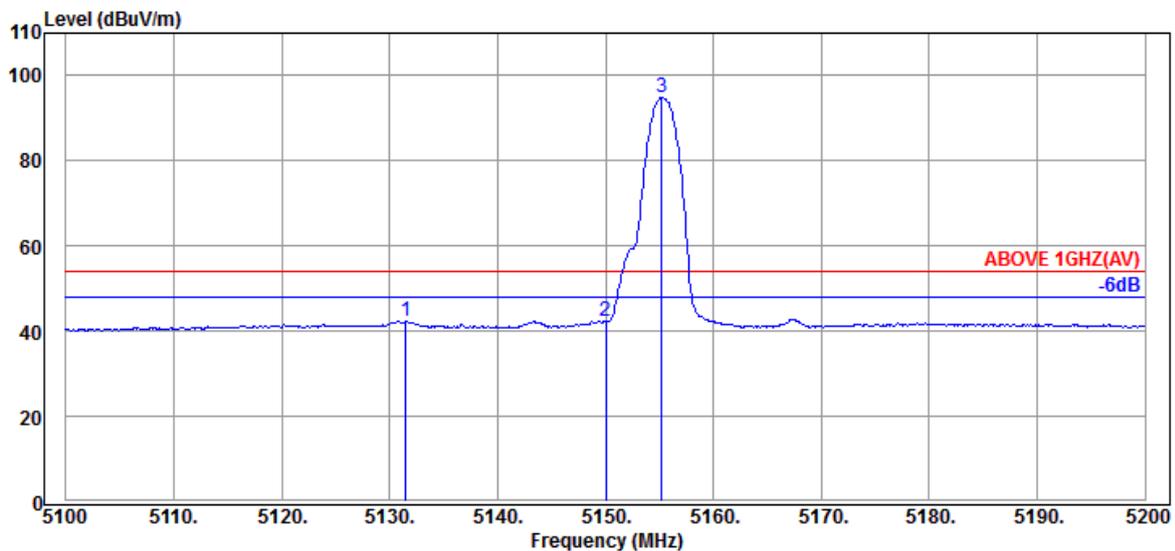
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	pi/4-shifted DQPSK	U-NII Band	1
Antenna	Ant 1	Frequency	TX 5155.35MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5131.300	34.17	11.20	34.36	43.14	54.15	74.00	19.85	Peak
5150.000	34.20	11.20	34.35	41.02	52.07	74.00	21.93	Peak
@ 5155.100	34.20	11.21	34.35	88.62	99.68	---	---	Peak



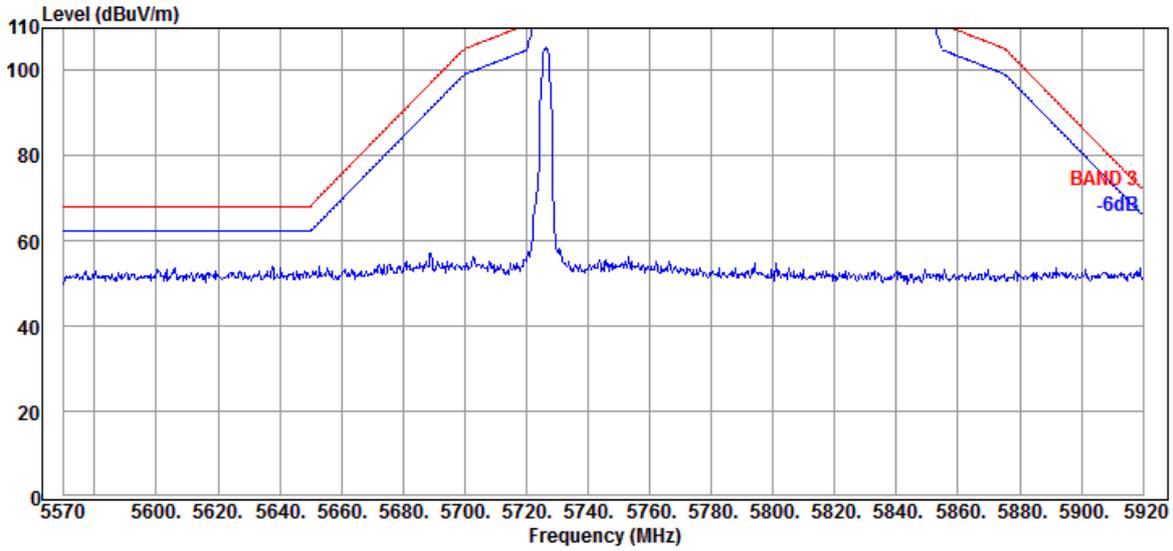
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5131.500	34.17	11.20	34.36	31.38	42.39	54.00	11.61	Average
5150.000	34.20	11.20	34.35	31.20	42.25	54.00	11.75	Average
@ 5155.200	34.20	11.21	34.35	83.96	95.02	---	---	Average

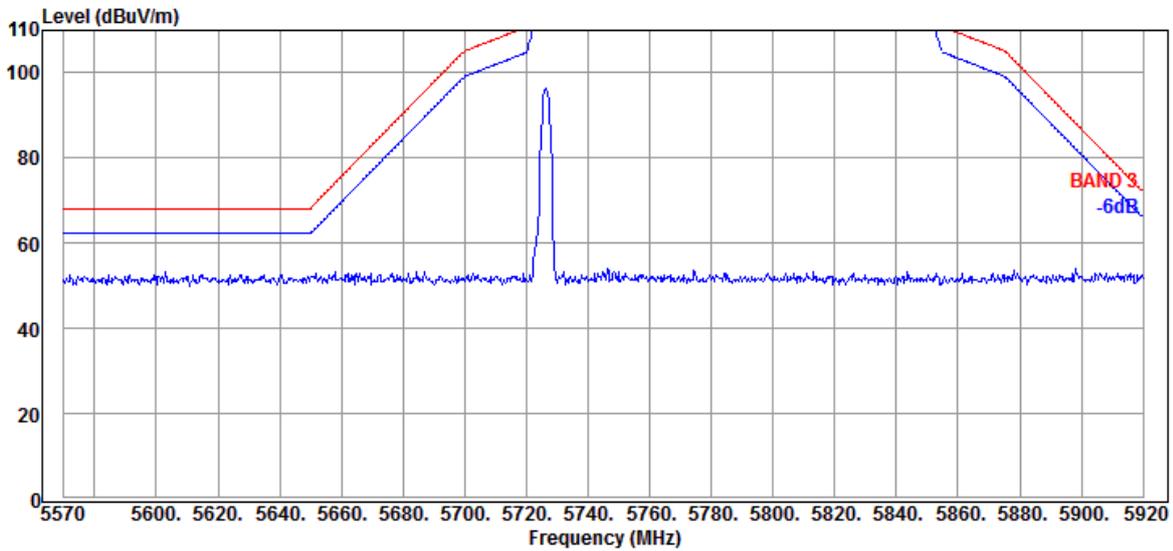
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 1	Frequency	TX 5726.35MHz

Antenna at Horizontal Polarization

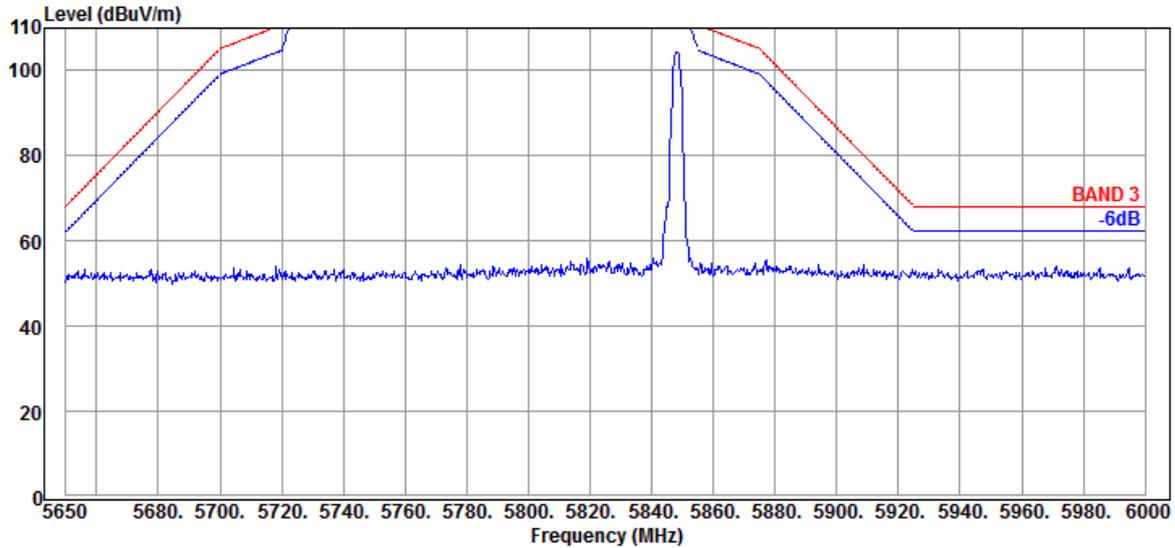


Antenna at Vertical Polarization

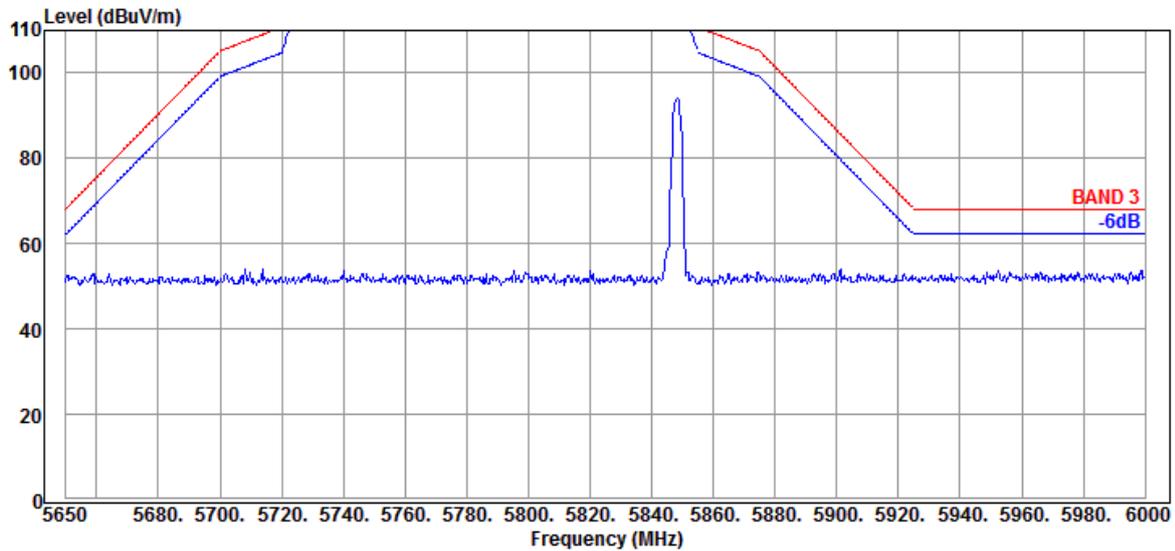


Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 1	Frequency	TX 5848.35MHz

Antenna at Horizontal Polarization

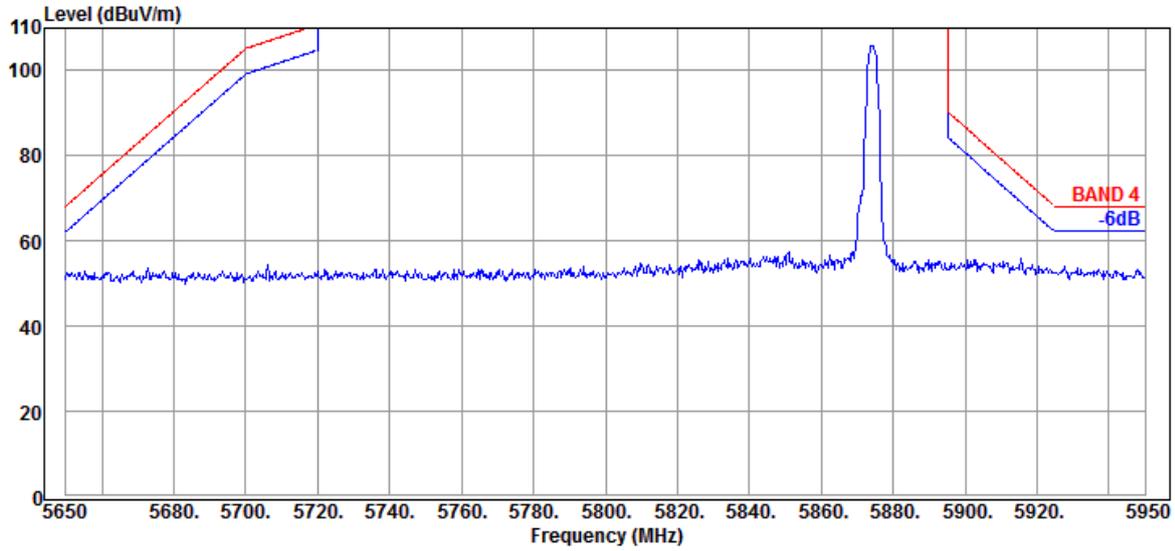


Antenna at Vertical Polarization

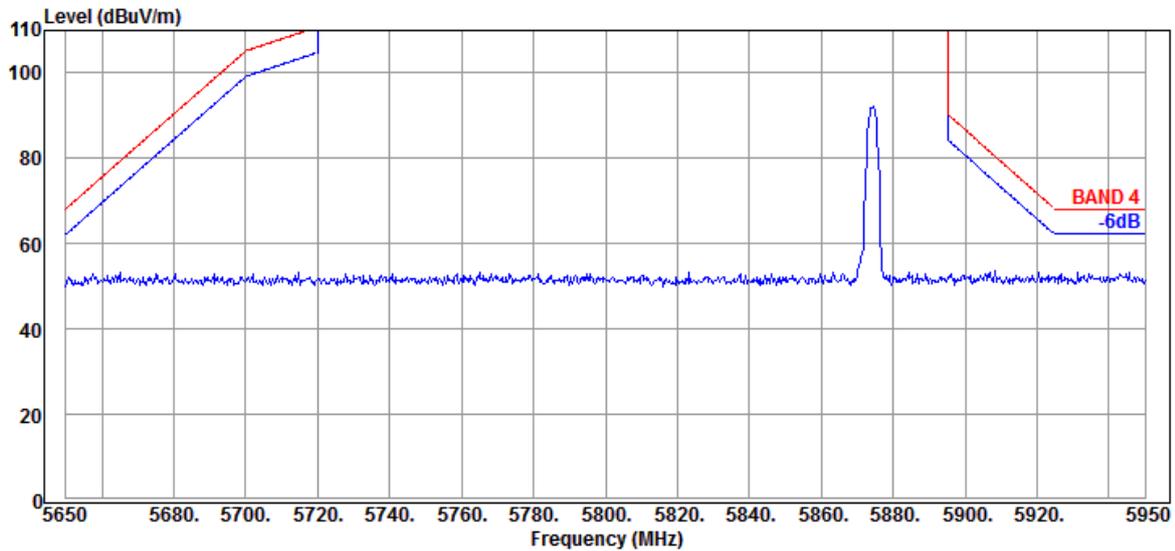


Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 1	Frequency	TX 5878.35MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



A.2.2 Emissions outside the frequency band

The emissions (up to 40GHz) not reported for there is no emission be found.

Mode	pi/4-shifted DQPSK	U-NII Band	1
Antenna	Ant 0	Frequency	TX 5247.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10494.700	37.75	15.02	34.67	29.12	47.22	54.00	6.78	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10494.700	37.75	15.02	34.67	29.03	47.13	54.00	6.87	Peak

Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 0	Frequency	TX 5788.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11576.700	38.43	15.82	34.54	31.26	50.97	54.00	3.03	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11576.700	38.43	15.82	34.54	28.79	48.50	54.00	5.50	Peak

Mode	pi/4-shifted DQPSK	U-NII Band	4
Antenna	Ant 0	Frequency	TX 5874.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11748.700	38.57	15.97	34.59	30.85	50.80	54.00	3.20	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11748.700	38.57	15.97	34.59	30.50	50.45	54.00	3.55	Peak

Mode	pi/4-shifted DQPSK	U-NII Band	1
Antenna	Ant 1	Frequency	TX 5247.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10494.700	37.75	15.02	34.67	29.48	47.58	54.00	6.42	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10494.700	37.75	15.02	34.67	31.10	49.20	54.00	4.80	Peak

Mode	pi/4-shifted DQPSK	U-NII Band	3
Antenna	Ant 1	Frequency	TX 5726.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11452.700	38.43	15.67	34.52	28.87	48.45	54.00	5.55	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11452.700	38.43	15.67	34.52	29.30	48.88	54.00	5.12	Peak

Mode	pi/4-shifted DQPSK	U-NII Band	4
Antenna	Ant 1	Frequency	TX 5874.35MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11748.700	38.57	15.97	34.59	29.24	49.19	54.00	4.81	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11748.700	38.57	15.97	34.59	29.51	49.46	54.00	4.54	Peak

A.2.3 Emissions in Non-restricted Frequency Bands

Pursuant to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 that emission levels below the 15.209/ RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED

BANDWIDTH

Test Date	2022/07/26 ~ 09/05	Temp./Hum.	24~25°C/45~64%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	DC 3.3V		

A.3.1 Average Output Power and Emission/Occupied Bandwidth

Mode pi/4-shifted DQPSK	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth							
		Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1				
U-NII Band 1	5155.35	2.475	2.479	1.8994	1.8924	12.46	12.32	N/A	12.46	24	N/A
	5201.35	2.483	2.464	1.8967	1.8982	12.22	12.38		12.38		
	5247.35	2.218	2.475	1.8949	1.9012	12.46	12.71		12.71		
Mode pi/4-shifted DQPSK	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth							
		Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1				
U-NII Band 3	5726.35	1.706	1.725	1.8965	1.8944	12.58	12.58	N/A	12.58	30	N/A
	5788.35	1.650	1.661	1.8929	1.9008	12.64	12.48		12.64		
	5848.35	1.699	1.638	1.9028	1.9038	12.61	12.40		12.61		

Note: 1. The results have been included cable loss.

2. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode pi/4-shifted DQPSK	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Antenna Gain (dBi)		Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dBm +10 log B) ^{Note 3}
		Emission (26dB)		Occupied (99%) Bandwidth					Ant 0	Ant 1			
		Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1						
U-NII Band 4	5850.35	2.468	2.479	1.8961	1.9009	12.57	12.42	N/A	2.47	3.18	15.60	30 (E.I.R.P.)	N/A
	5862.35	2.470	2.462	1.9013	1.9074	12.50	12.36		2.47	3.18	15.54		
	5874.35	2.475	2.471	1.8996	1.9003	12.62	12.47		2.47	3.18	15.65		

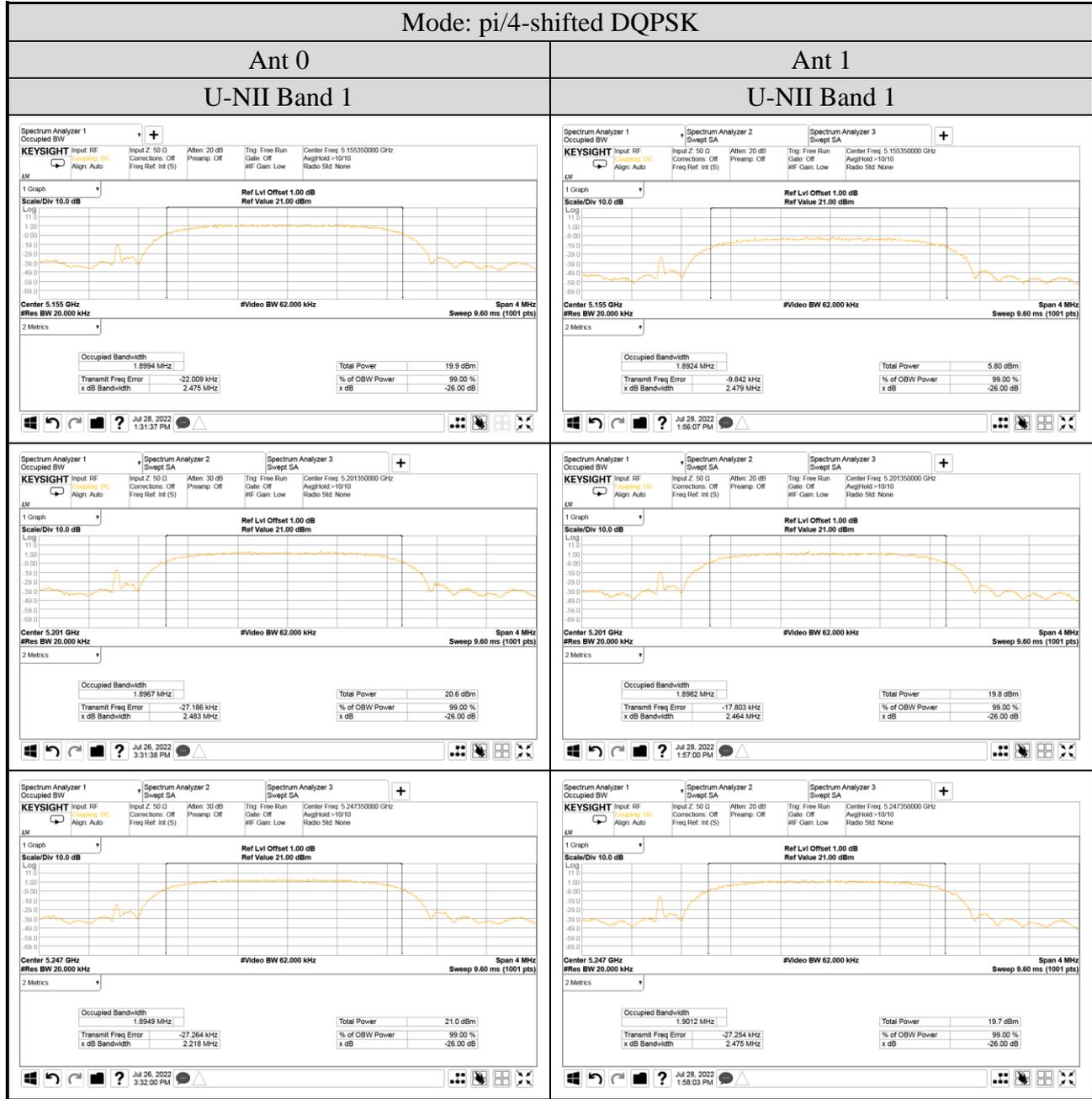
Note: 1. The results have been included cable loss.

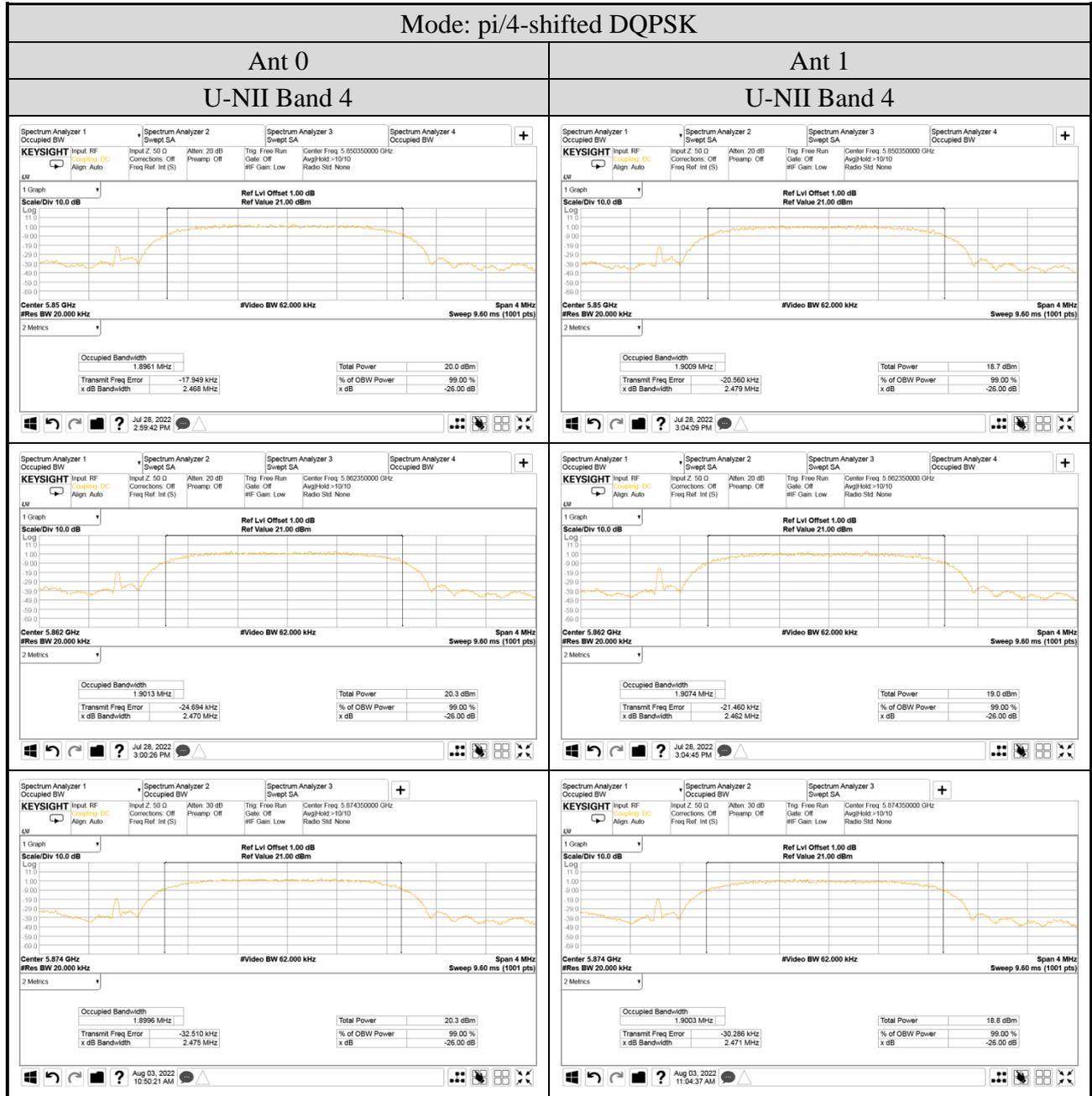
2. Max Average Output Power (dBm) = Max of each average output power (dBm) (AUX or Main) + Antenna Gain (dBi) + Duty Cycle Factor (dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

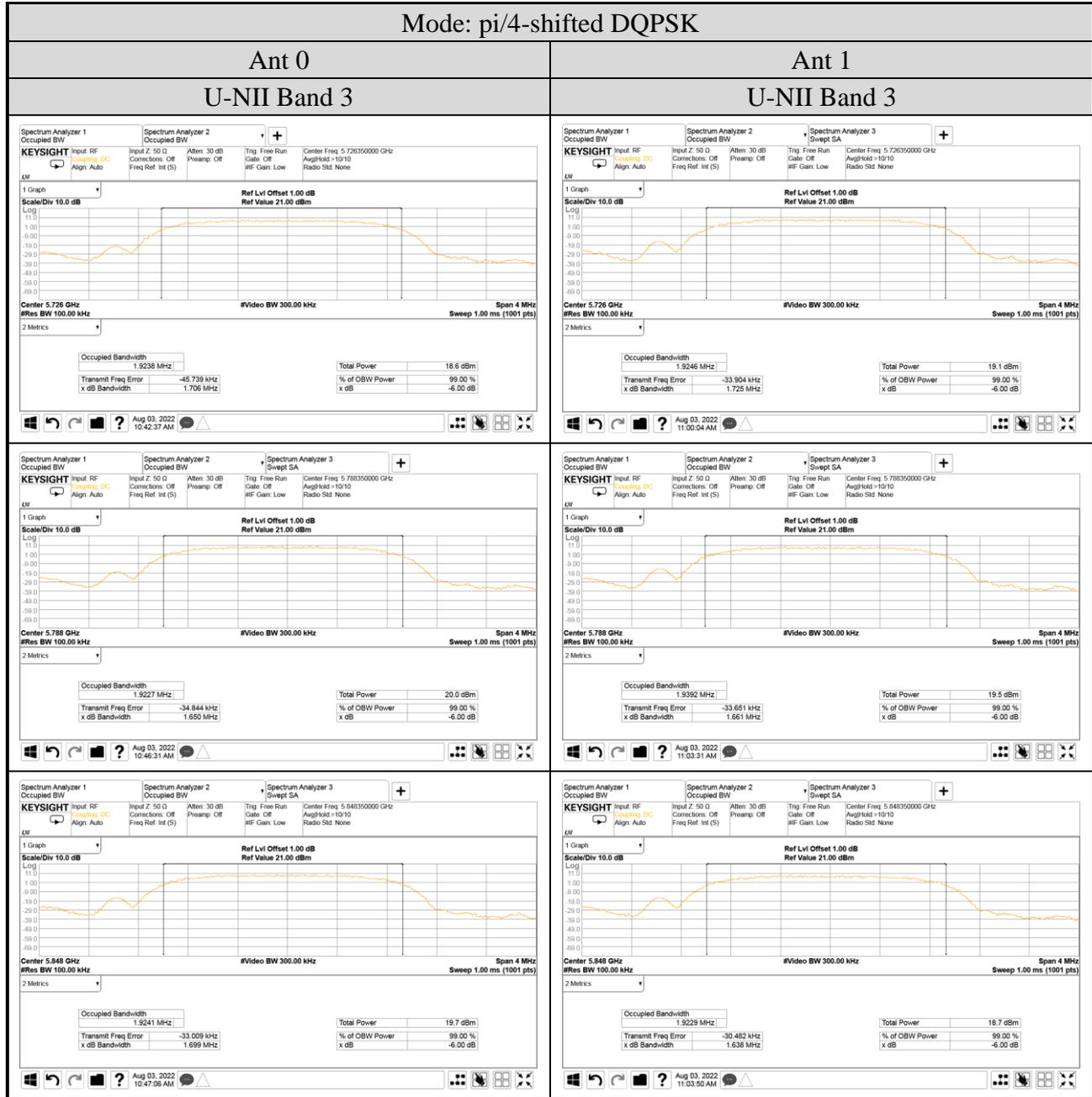
A.3.2 Measurement Plots

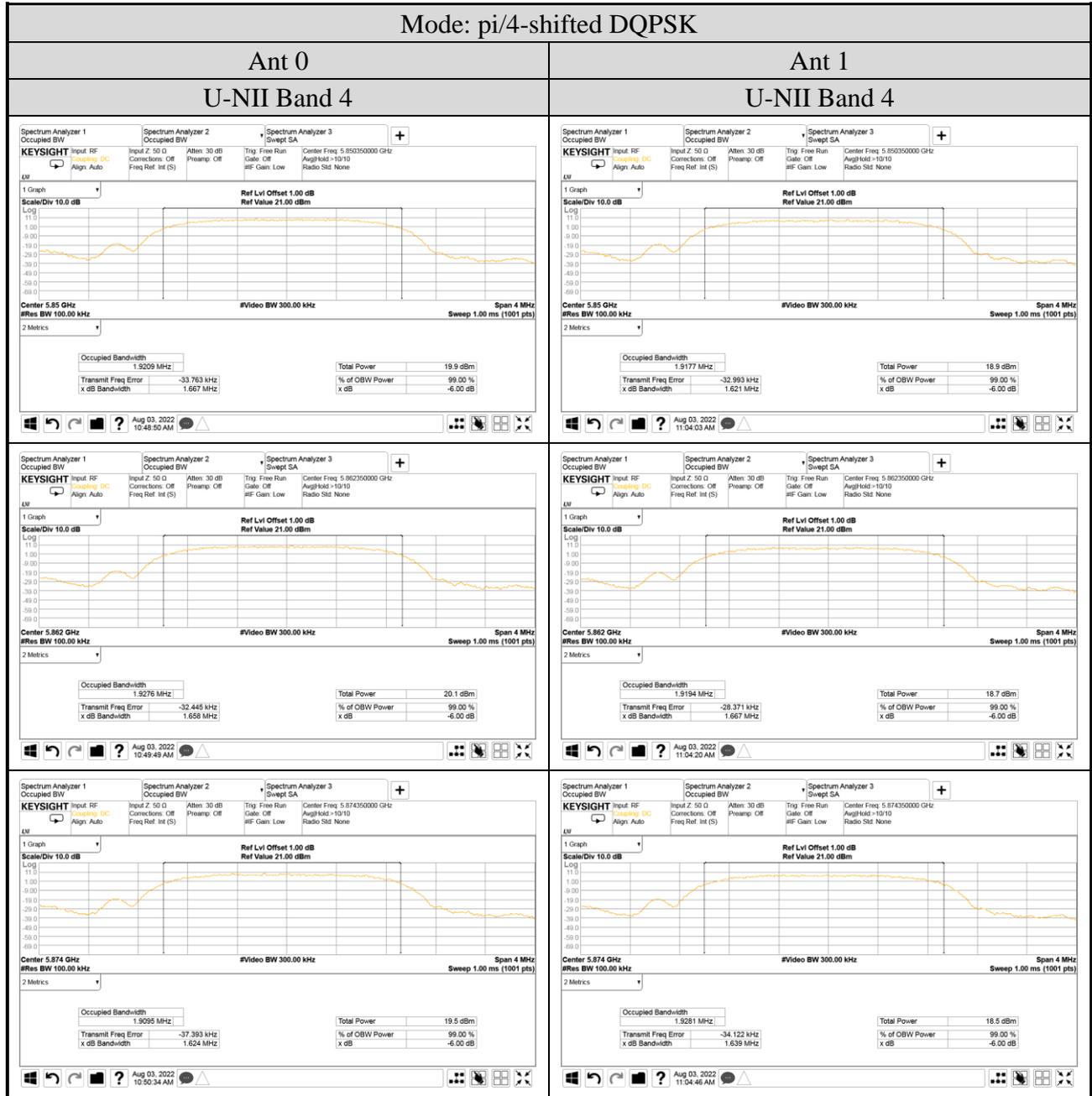
● Emission (26dB) Bandwidth



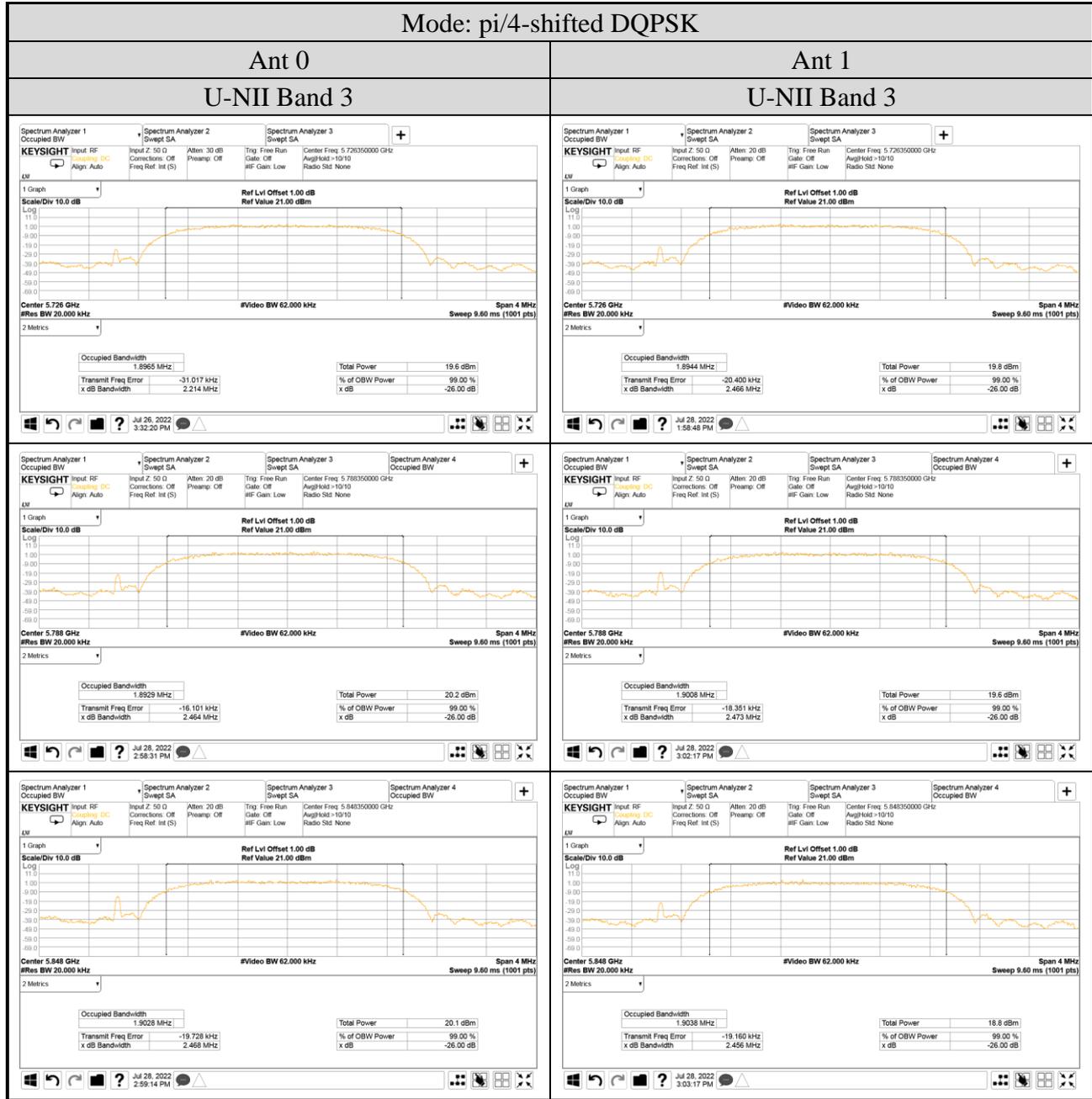


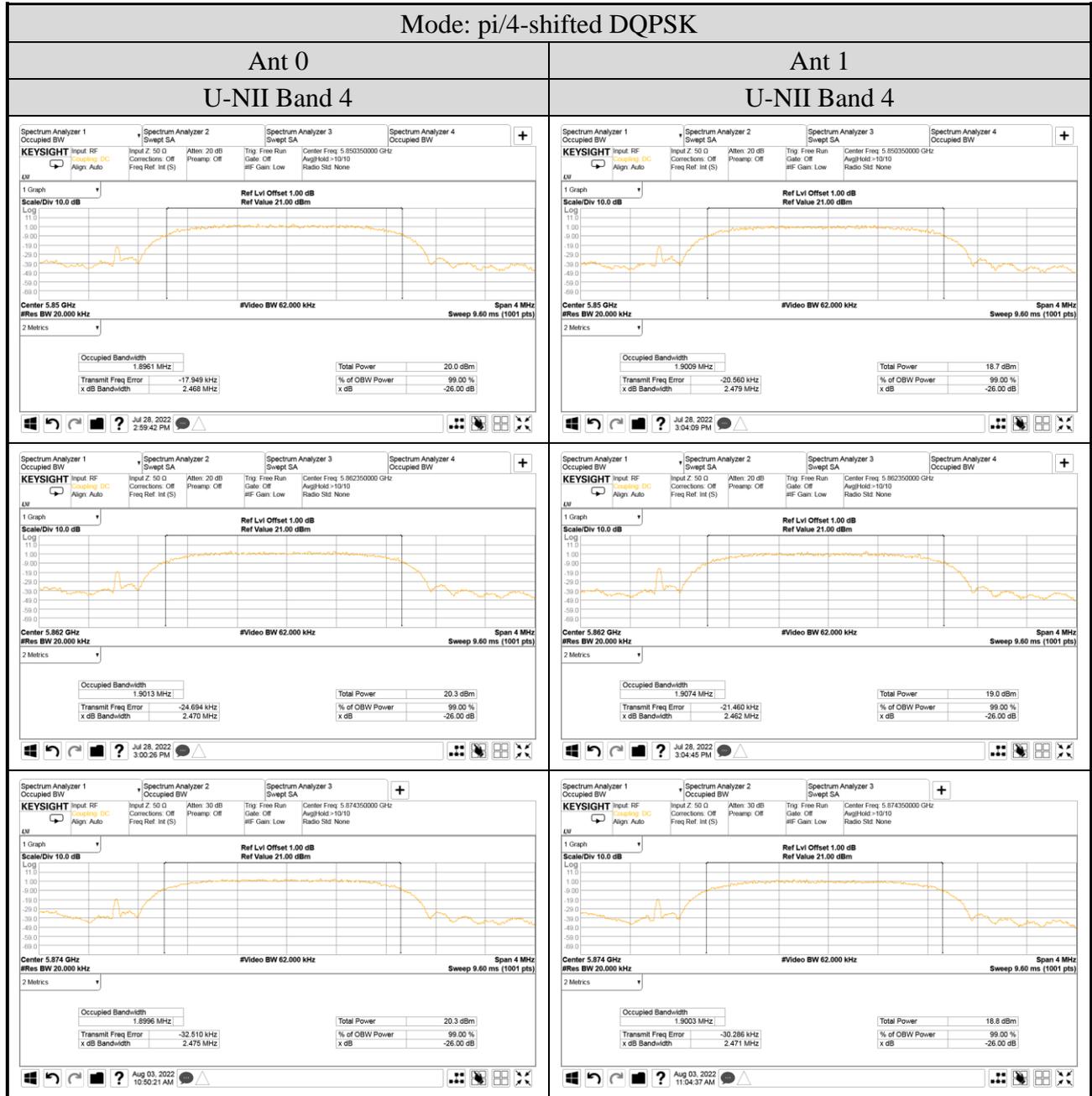
● For Emission (6dB) Bandwidth



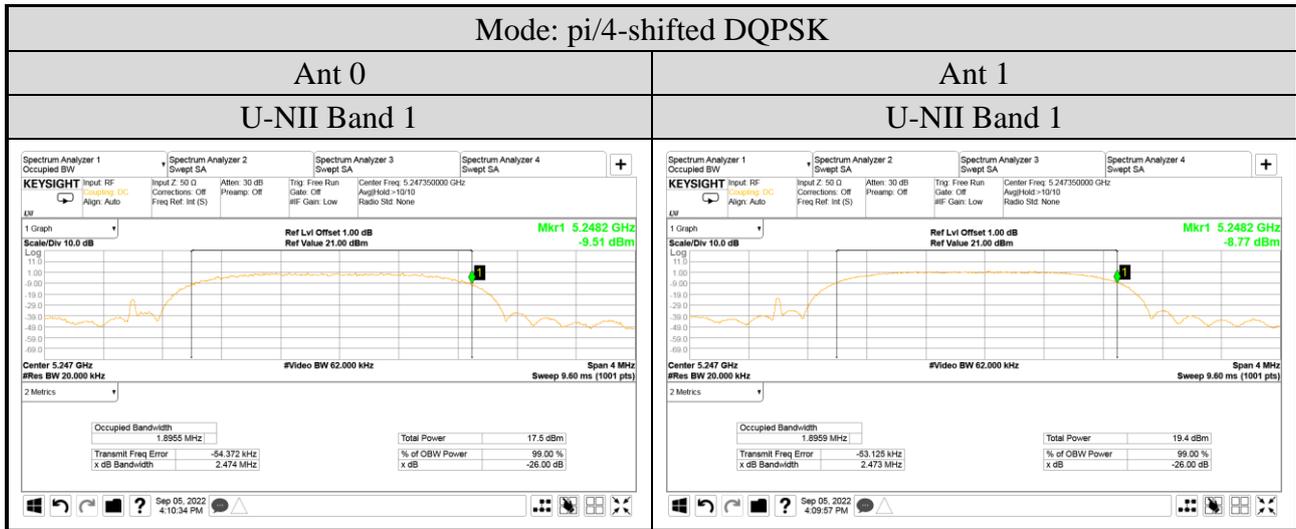


- For Occupied (99%) Bandwidth





- For Occupied (99%) Bandwidth - DFS Check



A.4 POWER SPECTRAL DENSITY

Test Date	2022/07/28 ~ 08/30	Temp./Hum.	24~25°C /45~54%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	DC 3.3V		

A.4.1 Power Spectral Density Result

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/1MHz) <small>Note 3</small>	Limit
			Ant 0	Ant 1			
pi/4-shifted DQPSK	1	5155.35	9.242	9.413	N/A	9.413	11 dBm/MHz
		5201.35	9.068	9.507		9.507	
		5247.35	9.670	9.644		9.670	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Duty Cycle Factor 10log(1/X)	Max. Power Spectral Density (dBm/500kHz) <small>Note 4</small>	Limit
			Ant 0	Ant 1			
pi/4-shifted DQPSK	3 ^{Note2}	5726.35	8.338	7.476	N/A	8.338	30dBm/500 kHz
		5788.35	7.883	7.481		7.883	
		5848.35	8.117	6.896		8.117	

Mode	U-NII Band	Centre Frequency (MHz)	Power Spectral Density (dBm/1MHz)		Duty Cycle Factor 10log(1/X)	Antenna Gain (dBi)		Max. Power Spectral Density (dBm/1MHz) <small>Note 5</small>	Limit
			Ant 0	Ant 1		Ant 0	Ant 1		
pi/4-shifted DQPSK	4	5850.35	7.026	6.199	N/A	2.47	3.18	9.496	14dBm/MHz (E.I.R.P.)
		5862.35	7.014	6.258		2.47	3.18	9.484	
		5874.35	7.068	6.231		2.47	3.18	9.538	

Note :1. All results have been included cable loss.

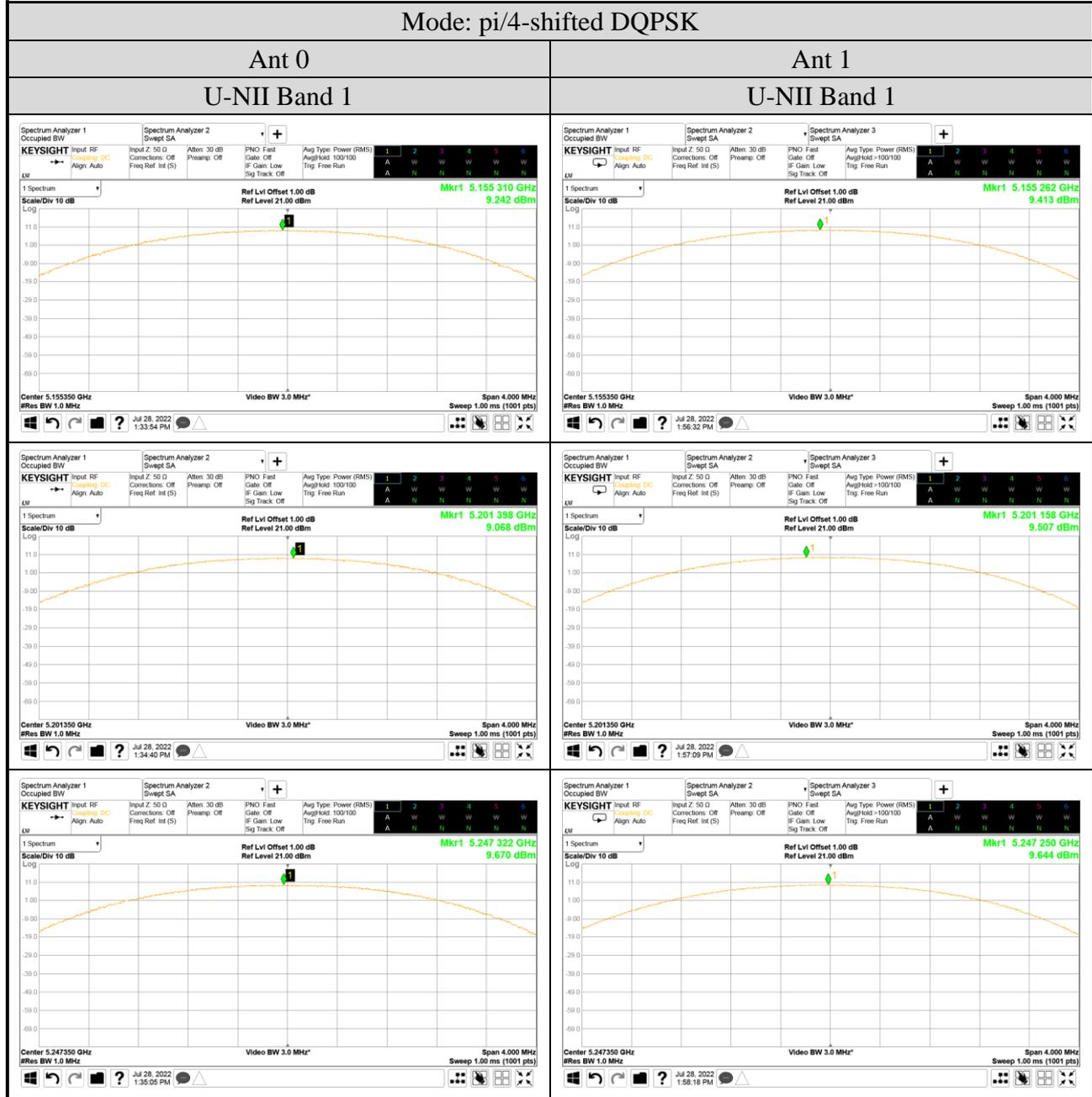
2. BWCF 7dB (100kHz converted to 500kHz) has been included in the test result.

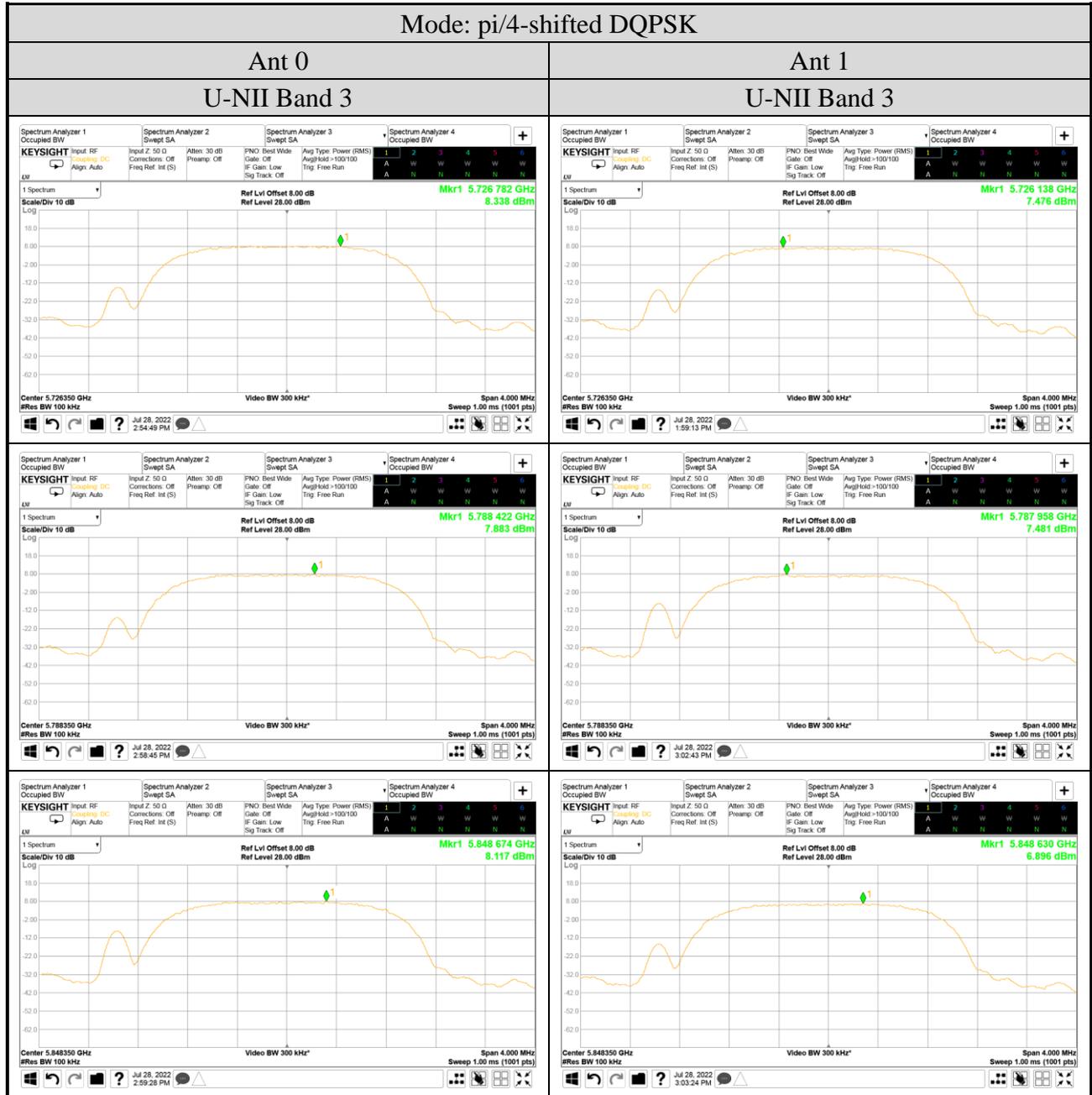
3. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

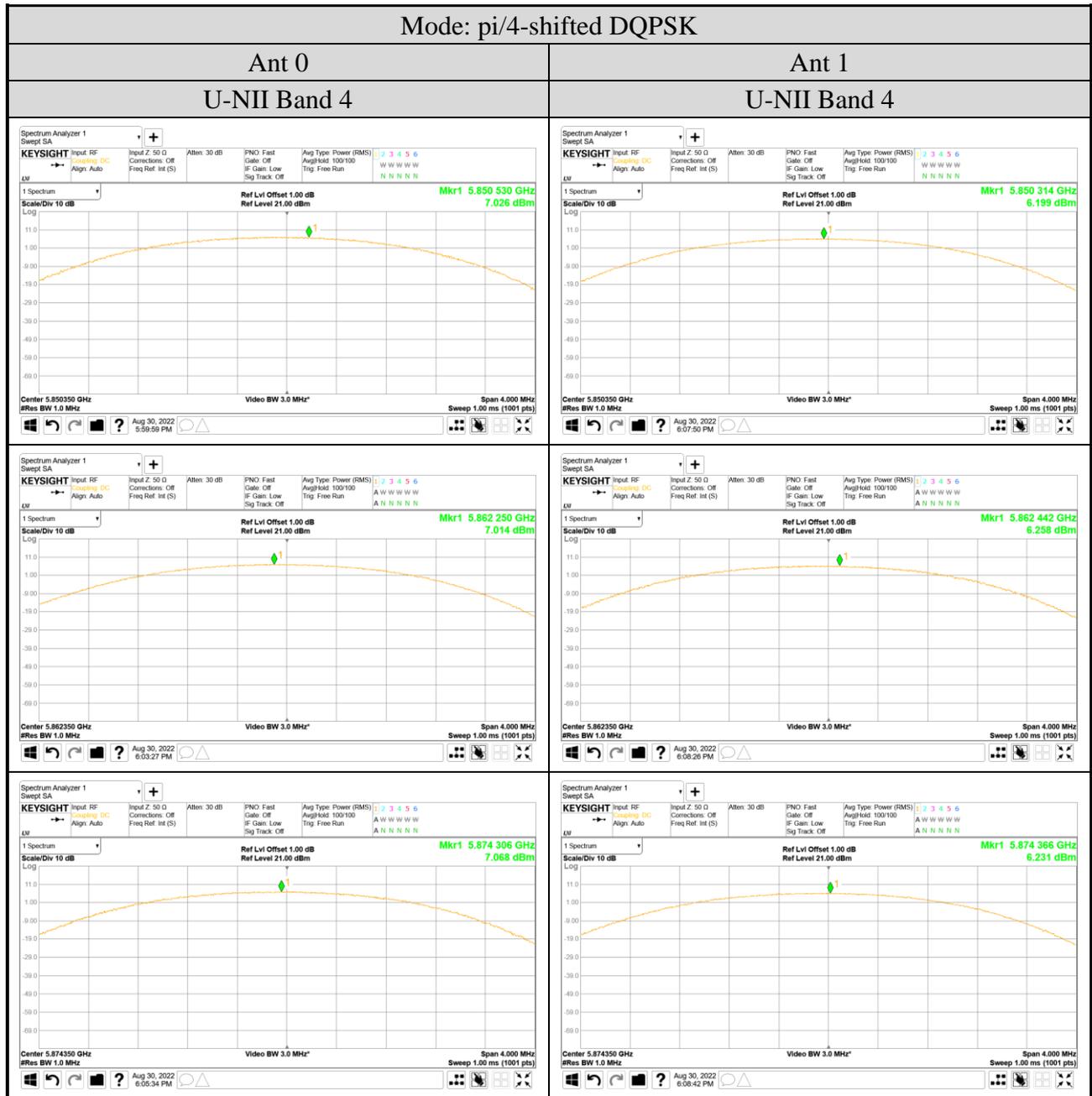
4. Max. Power Spectral Density (dBm/500kHz) = Max of each PSD (dBm/500kHz) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

5. Max. Power Spectral Density (dBm/1MHz) = Max of each PSD (dBm/1MHz) (AUX or Main) + Antenna Gain (dBi) + Duty Cycle Factor(dB) when duty cycle is less than 98%.

A.4.2 Measurement Plots







A.5 FREQUENCY STABILITY

Test Date	2022/08/22	Temp./Hum.	26°C/55%
Test Voltage	DC 3.3V	Tested By	Kuper Hsu

A.5.1 Frequency stability Result

Ant 0

Temperature (°C)	Voltage (Vdc)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	3.30	5155.35	5155.348	-0.388
	3.00		5155.329	-4.073
-30	3.60		5155.376	5.043
	3.00		5155.333	-3.298
-20	3.60		5155.325	-4.849
	3.00		5155.356	1.164
-10	3.60		5155.334	-3.104
	3.00		5155.363	2.522
0	3.60		5155.358	1.552
	3.00		5155.357	1.358
10	3.60		5155.33	-3.879
	3.00		5155.372	4.267
20	3.60		5155.361	2.134
	3.00		5155.347	-0.582
30	3.60		5155.335	-2.910
	3.00		5155.350	0.000
40	3.60		5155.320	-5.819
	3.00		5155.360	1.940
50	3.60		5155.346	-0.776

Ant 1

Temperature (°C)	Voltage (Vdc)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	3.30	5155.35	5155.354	0.776
	3.00		5155.375	4.849
-30	3.60		5155.368	3.492
	3.00		5155.334	-3.104
-20	3.60		5155.379	5.625
	3.00		5155.36	1.940
-10	3.60		5155.351	0.194
	3.00		5155.361	2.134
0	3.60		5155.373	4.461
	3.00		5155.35	0.000
10	3.60		5155.342	-1.552
	3.00		5155.362	2.328
20	3.60		5155.372	4.267
	3.00		5155.335	-2.910
30	3.60		5155.324	-5.043
	3.00		5155.370	3.879
40	3.60		5155.320	-5.819
	3.00		5155.344	-1.164
50	3.60		5155.359	1.746