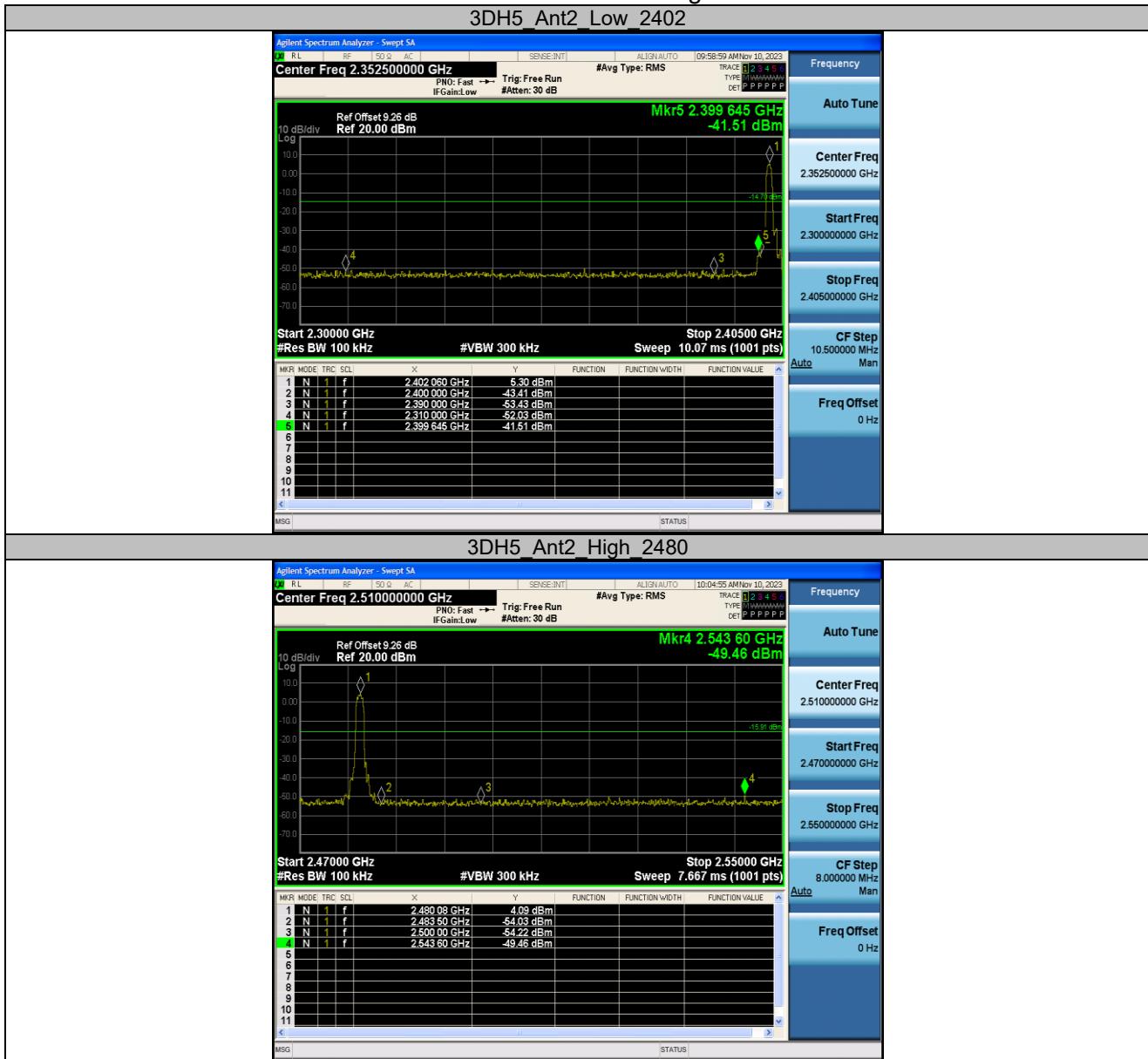


Report No.: SEWM2312000491RG01

Rev.: 01

Page: 62 of 96



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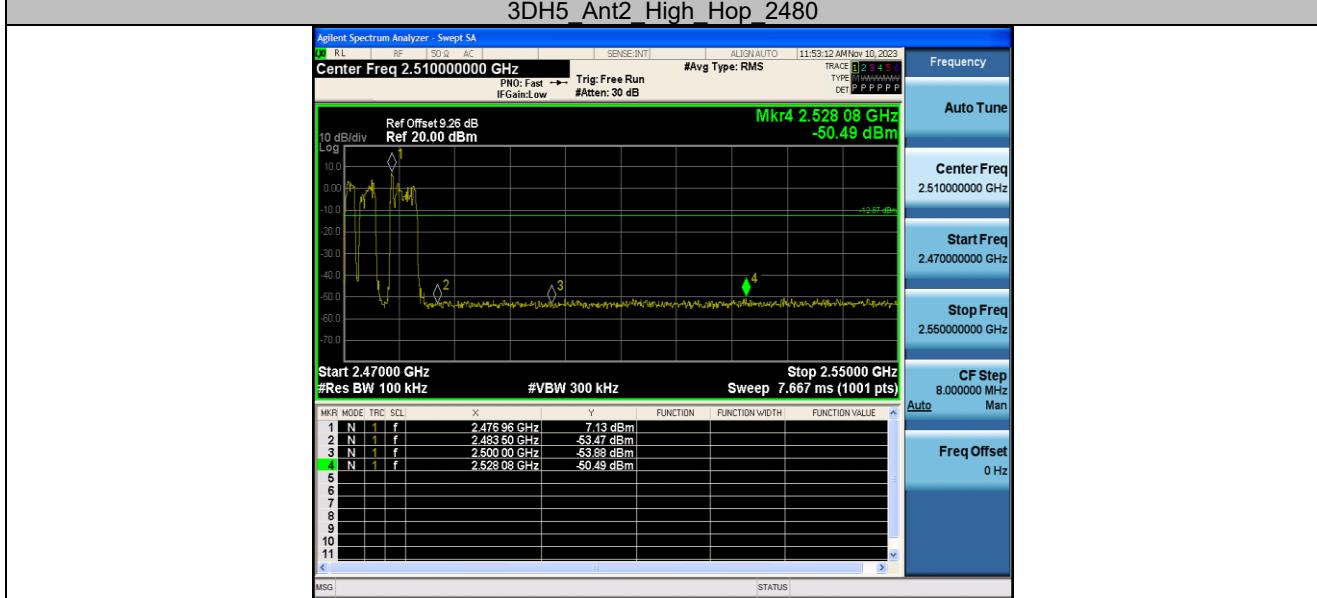
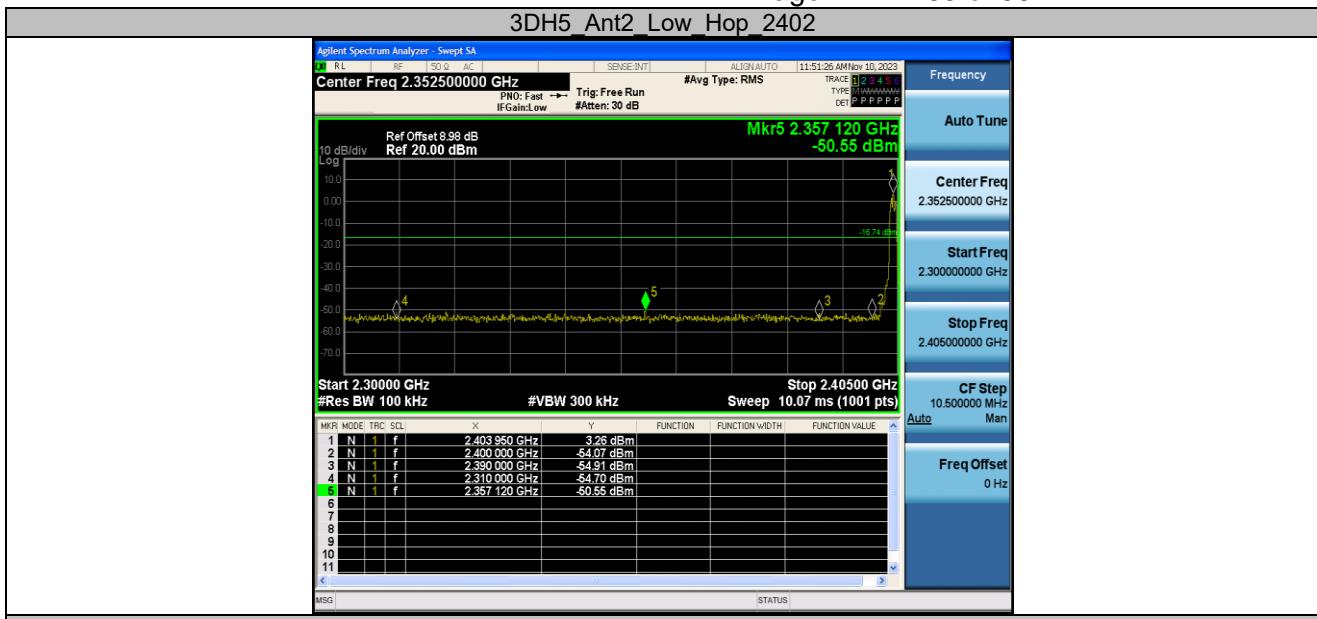
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Rev.: 01

Page: 63 of 96



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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 64 of 96

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Report No.: SEWM2312000491RG01

Rev.: 01

Page: 65 of 96

DH5 Ant2 2402 1000~26500



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Rev.: 01

Page: 66 of 96

DH5 Ant2 2441 30~1000



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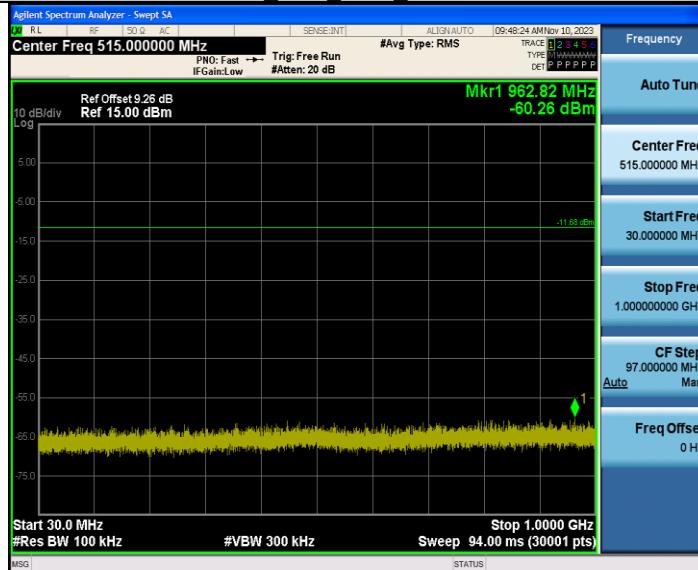
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Page: 67 of 96

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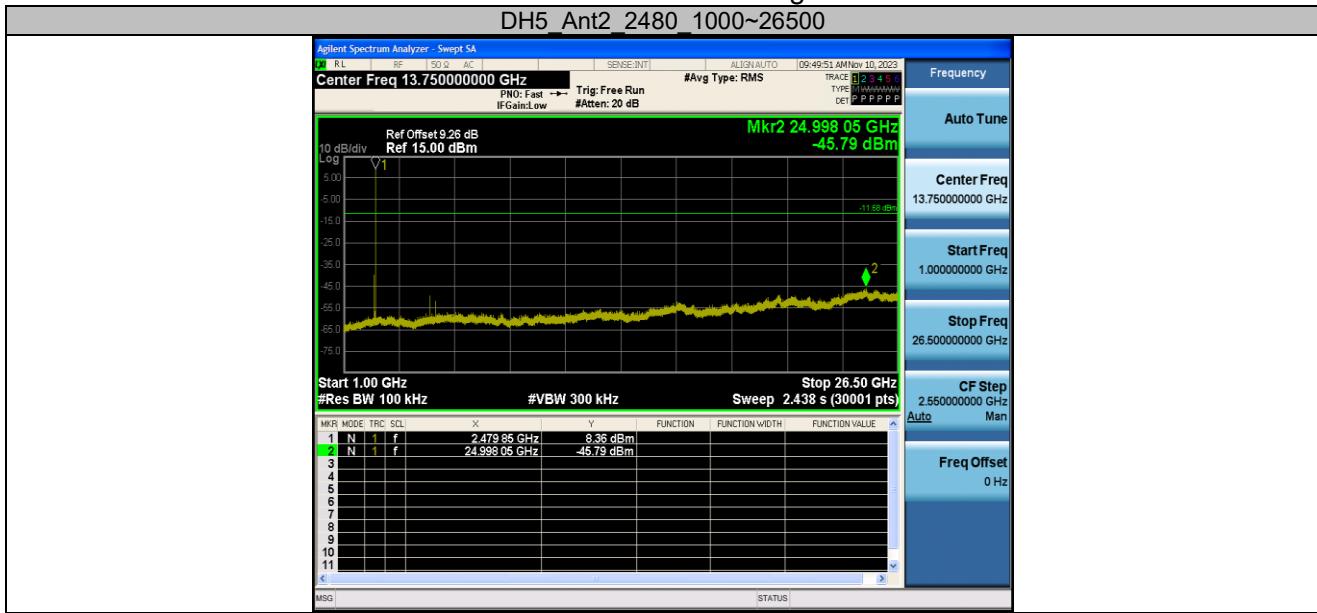
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Rev.: 01  
Page: 68 of 96



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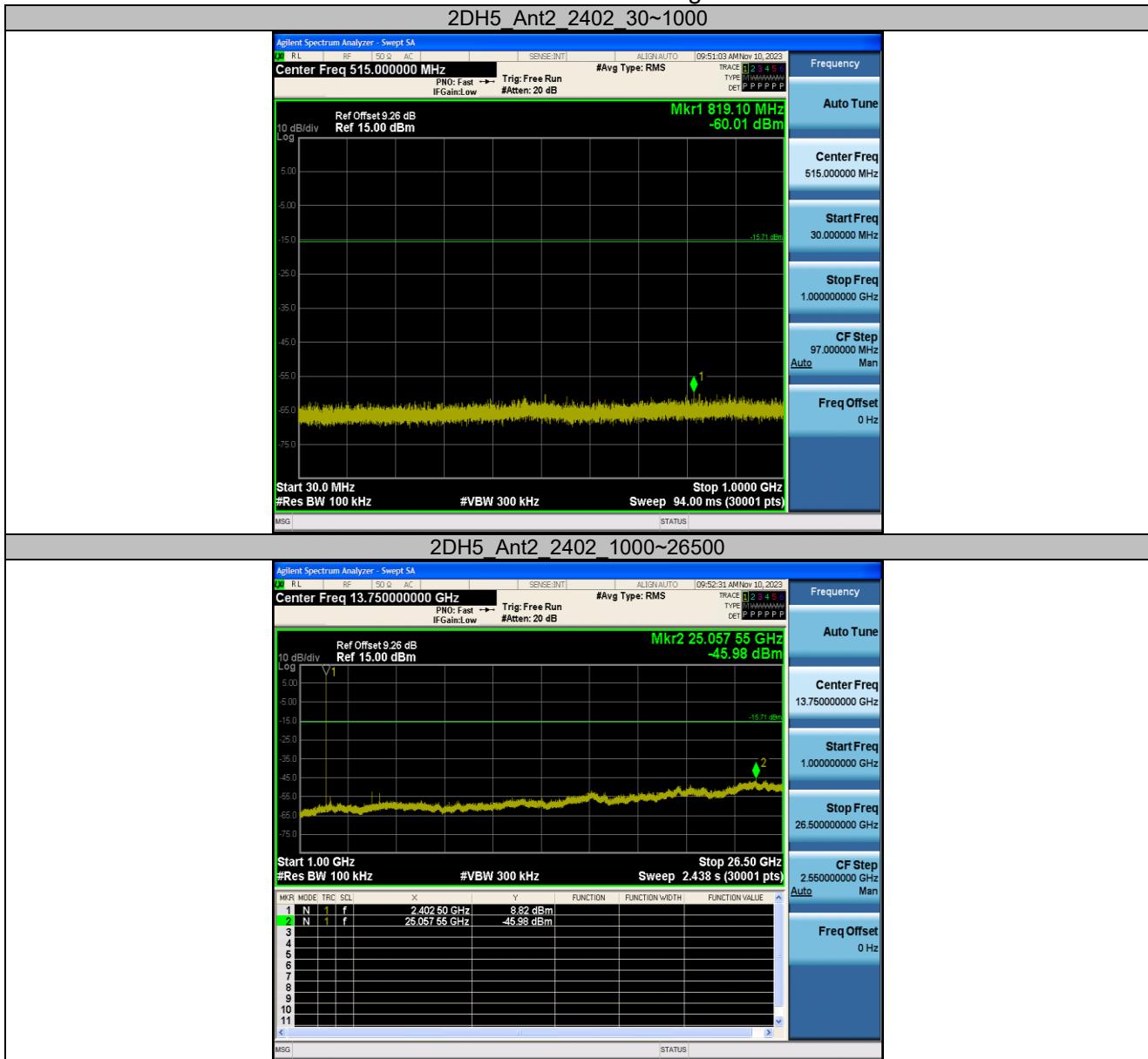
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Rev.: 01

Page: 69 of 96



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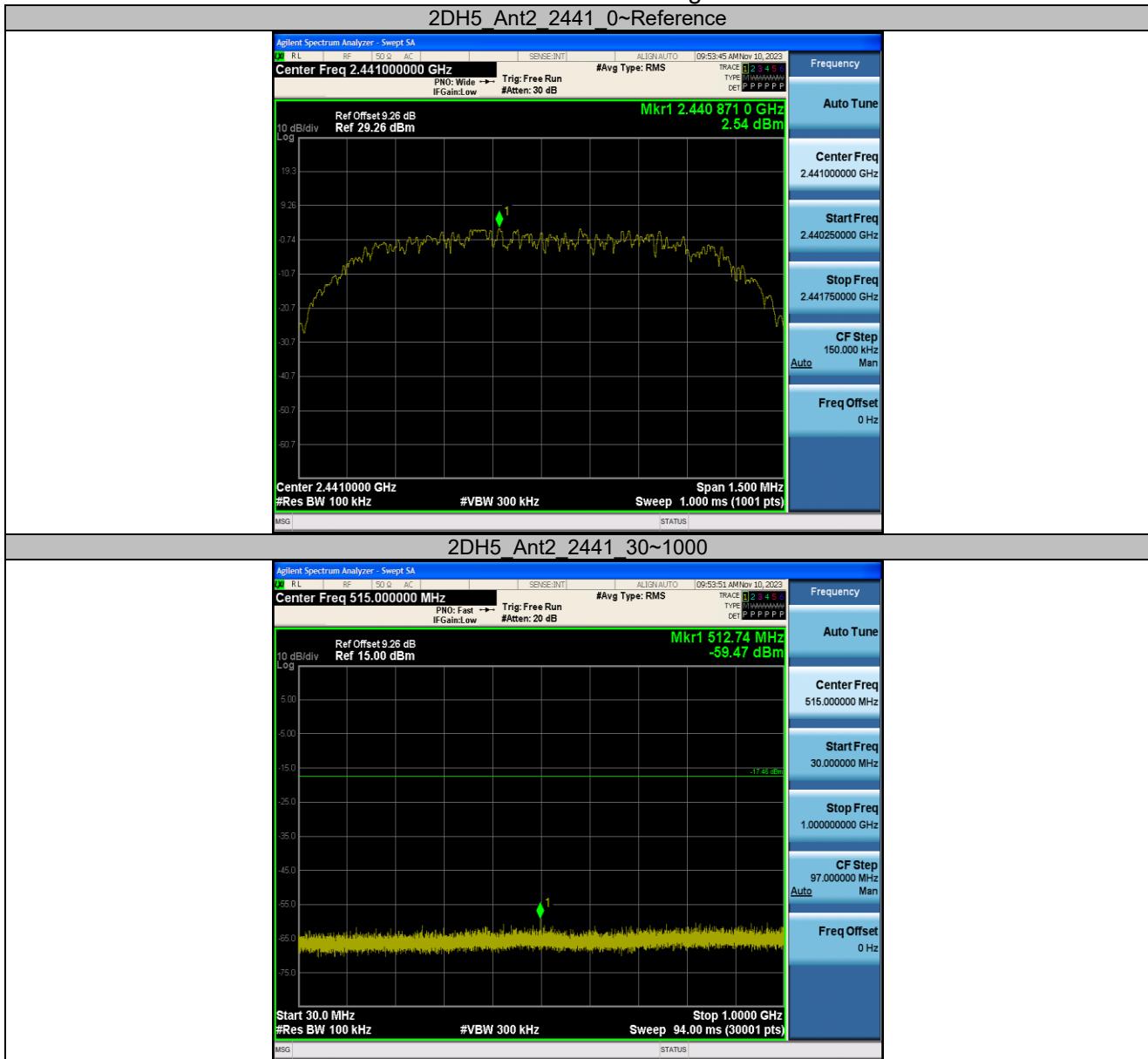


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 Rev.: 01  
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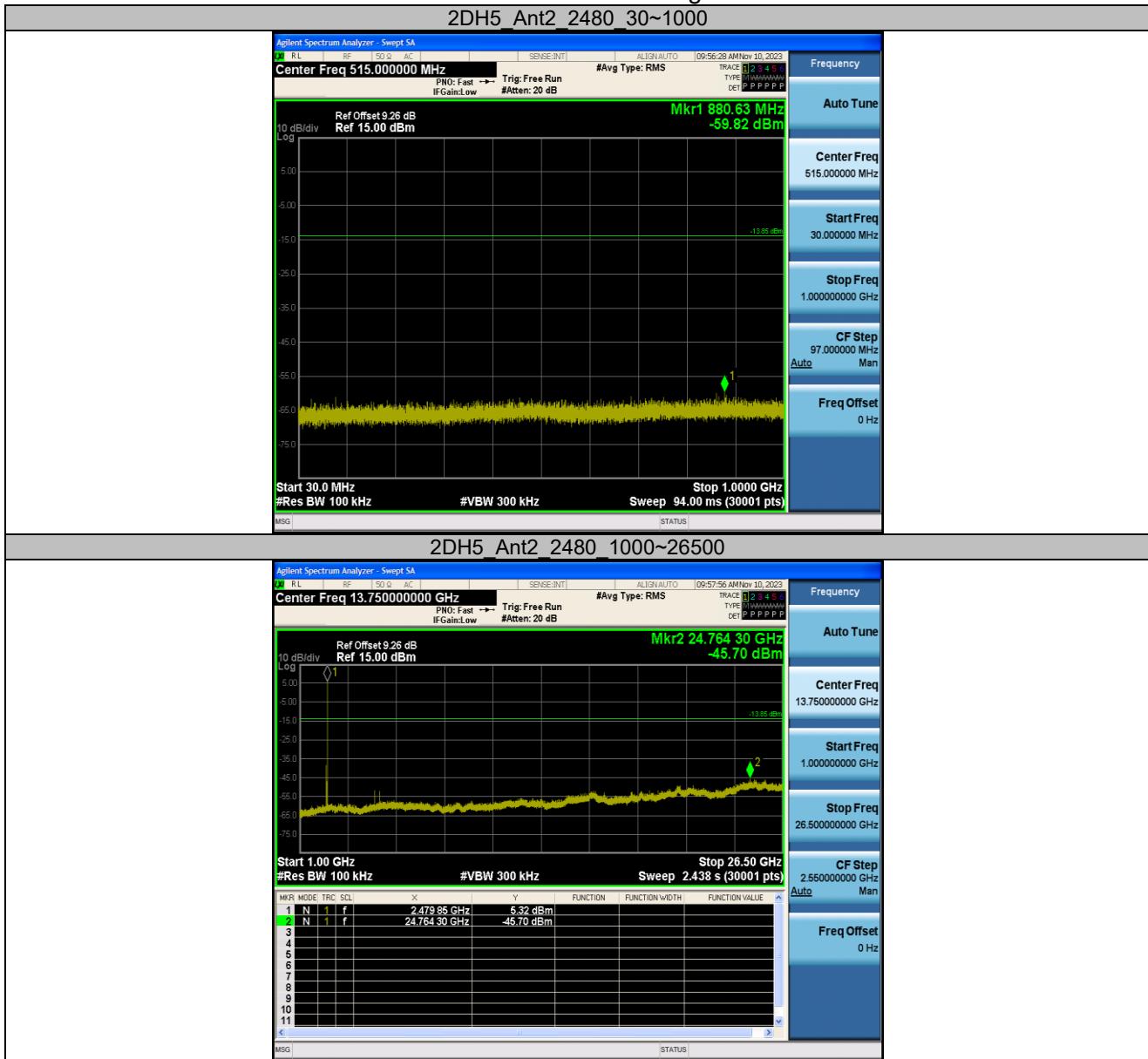
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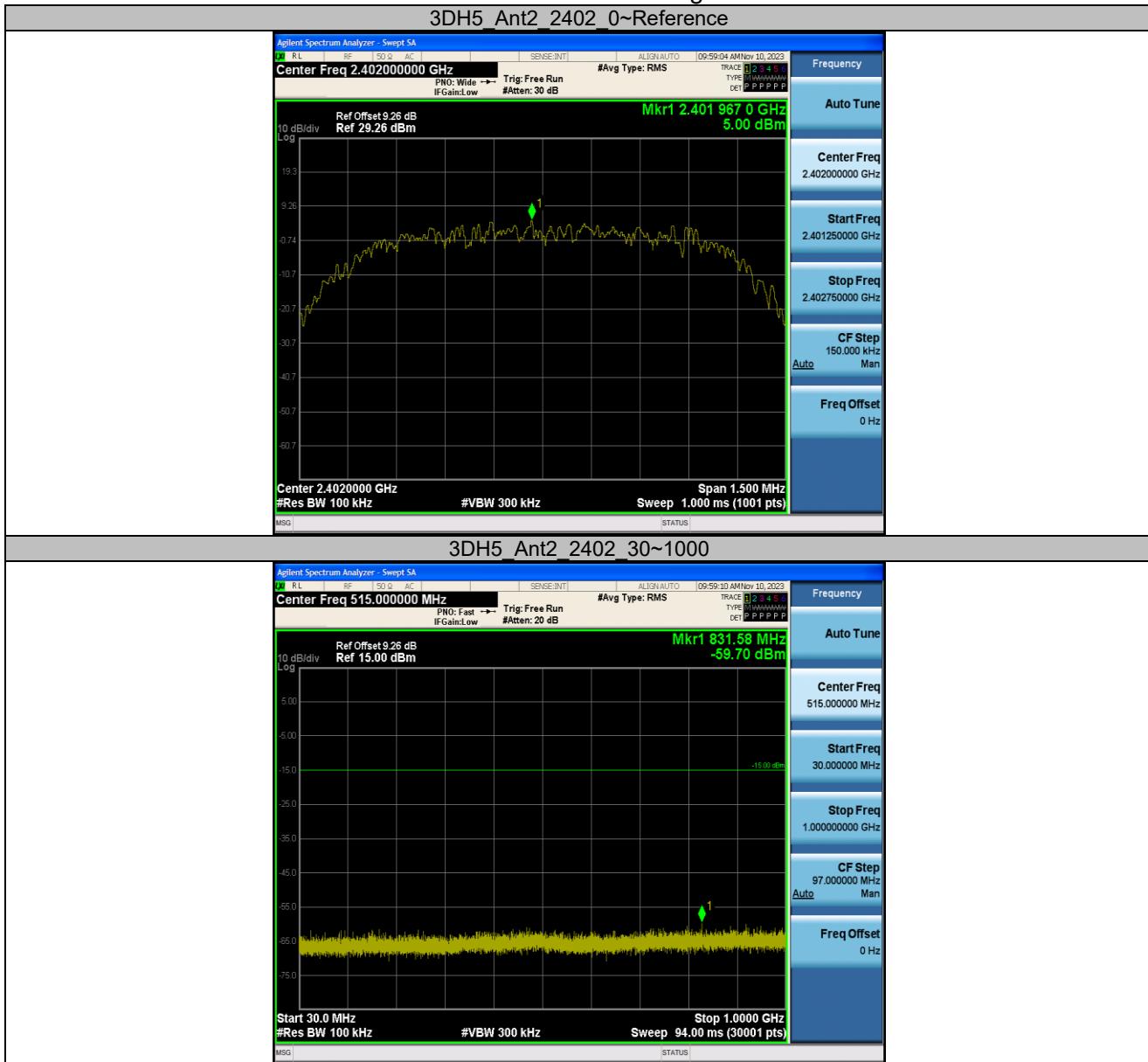
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Rev.: 01

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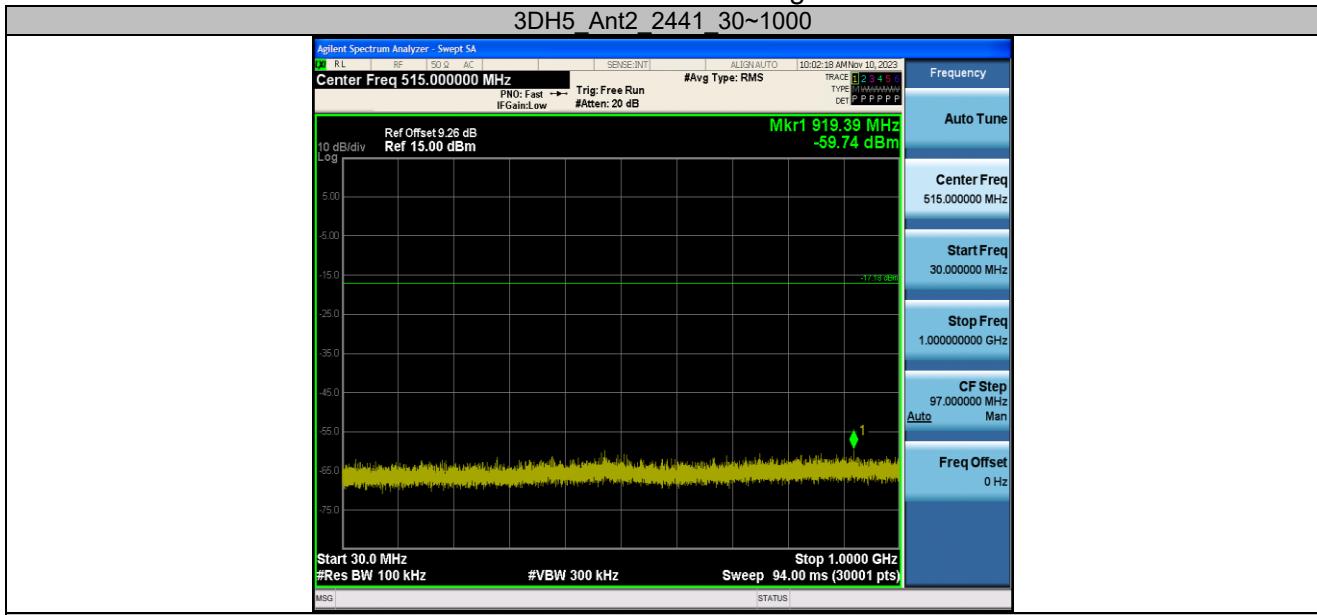


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Rev.: 01  
Page: 75 of 96



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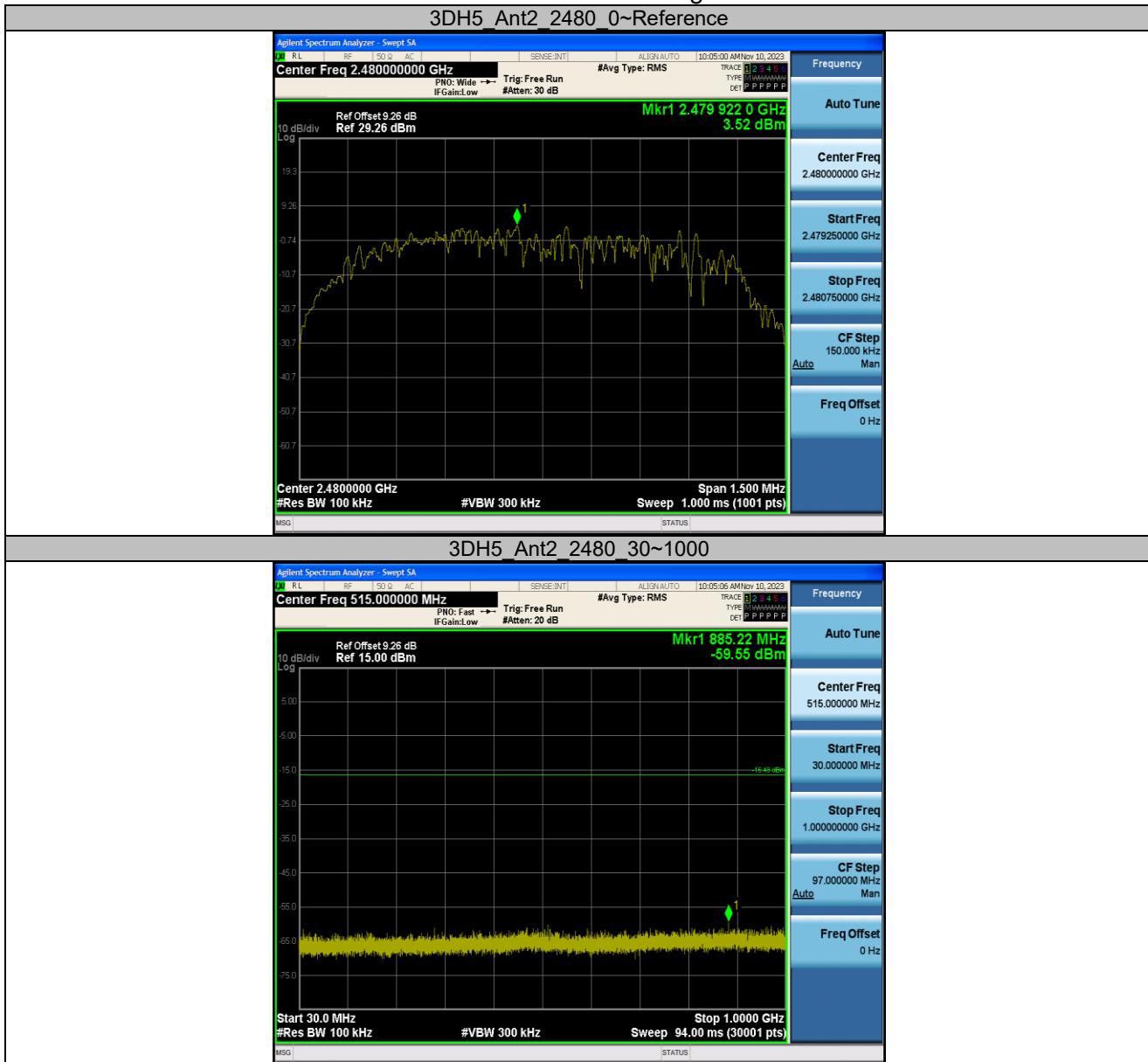
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Report No.: SEWM2312000491RG01

Rev.: 01

Page: 76 of 96



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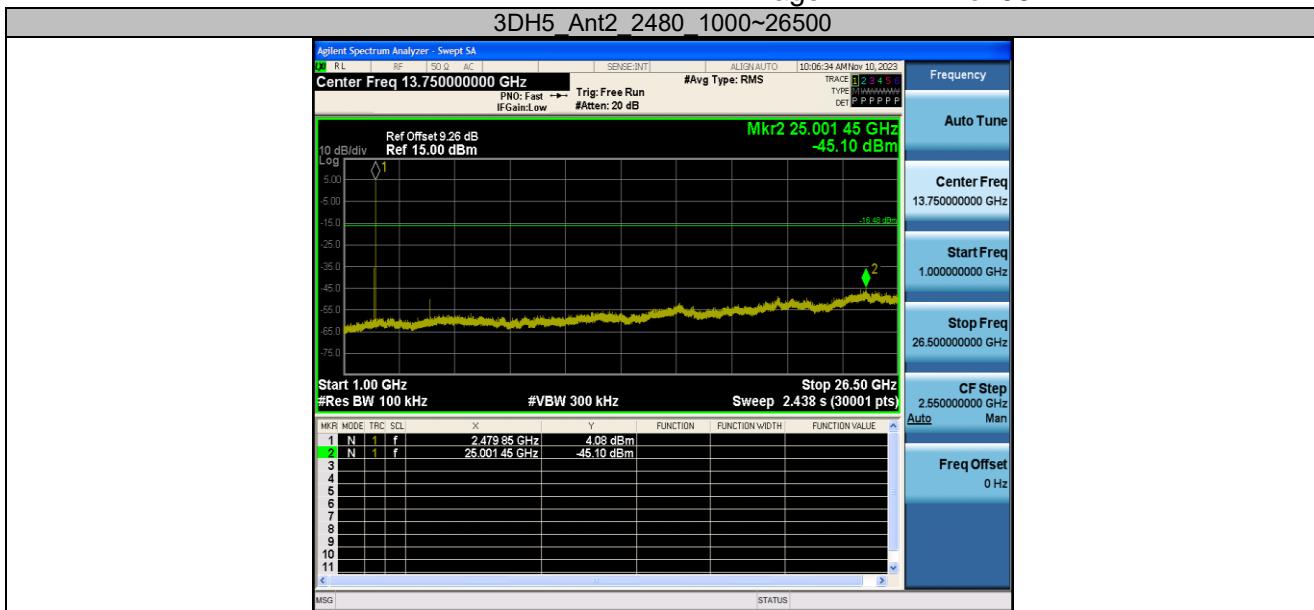
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Rev.: 01

Page: 77 of 96



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Report No.: SEWM2312000491RG01

Rev.: 01

Page: 78 of 96

**Duty Cycle  
Test Result**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant2	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15
2DH5	Ant2	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
3DH5	Ant2	2402	2.89	3.75	77.07	1.13
		2441	2.88	3.74	77.01	1.13
		2480	2.89	3.75	77.07	1.13

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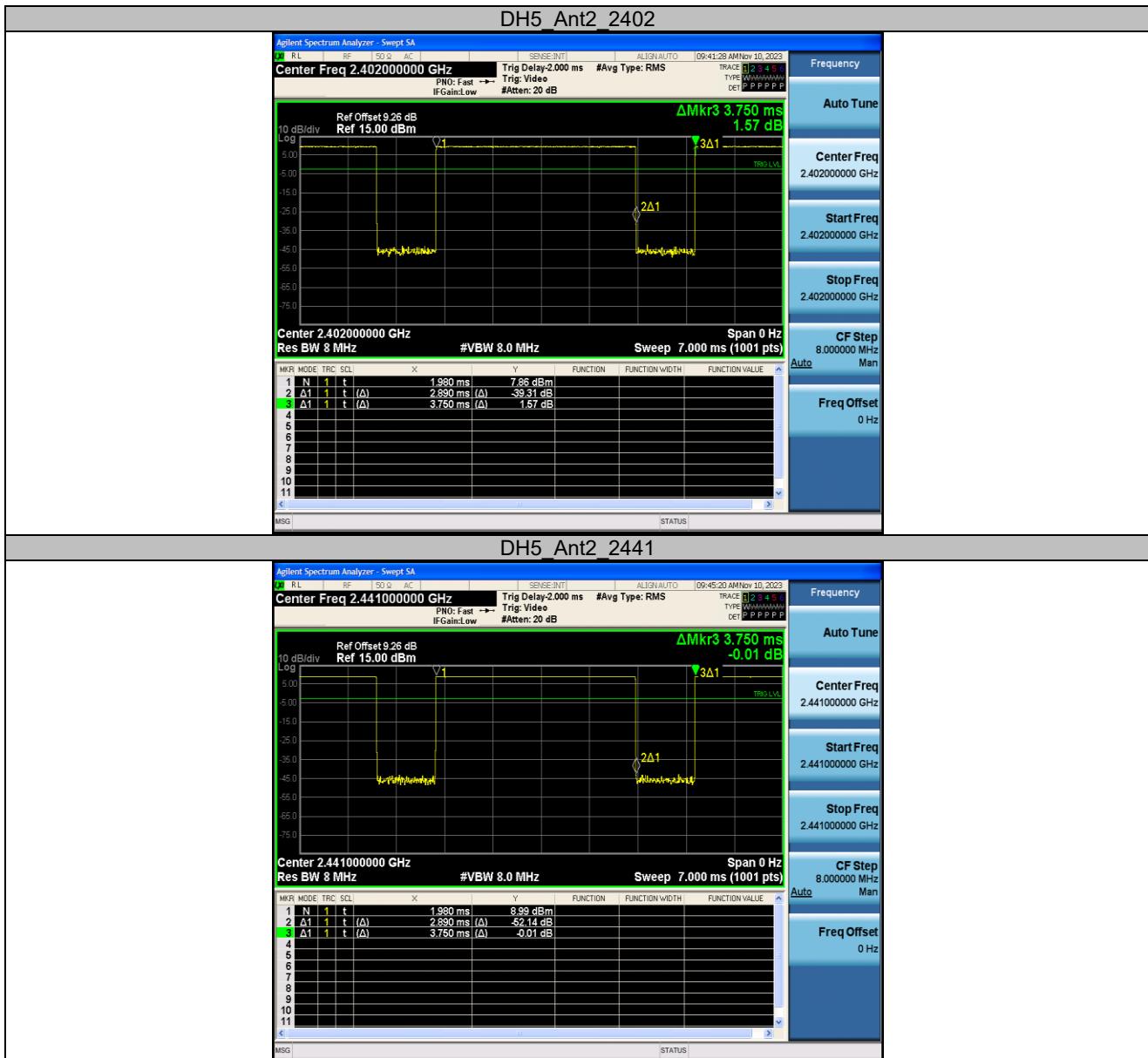
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 Page: 79 of 96

## Test Graphs



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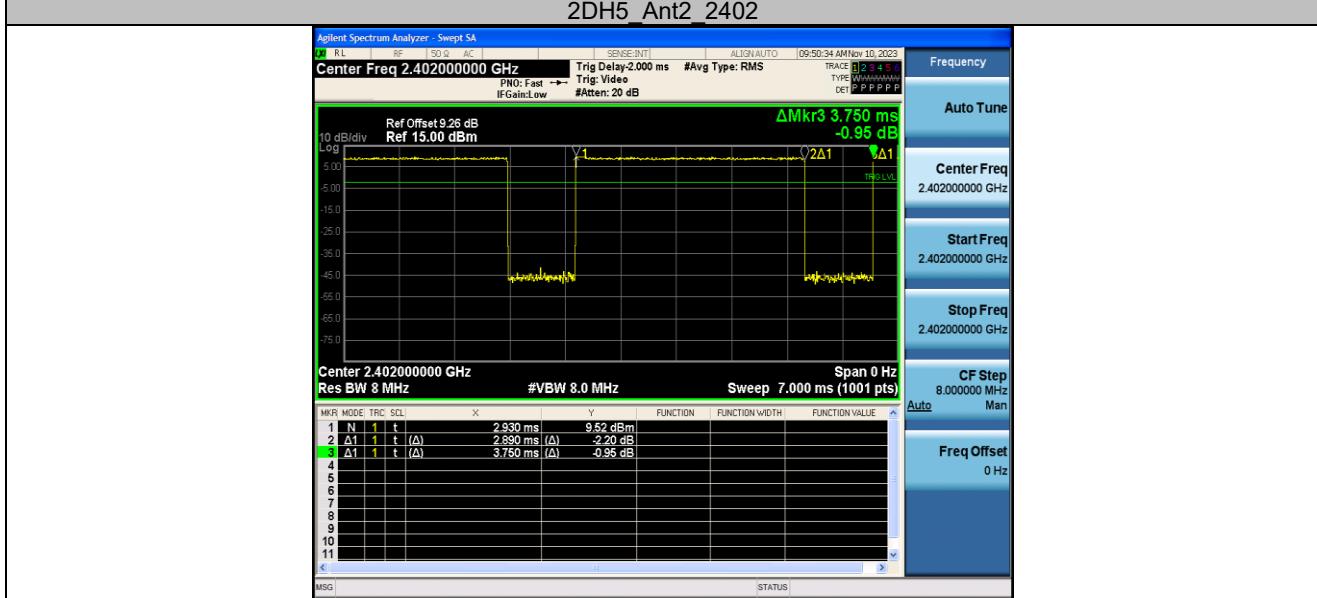
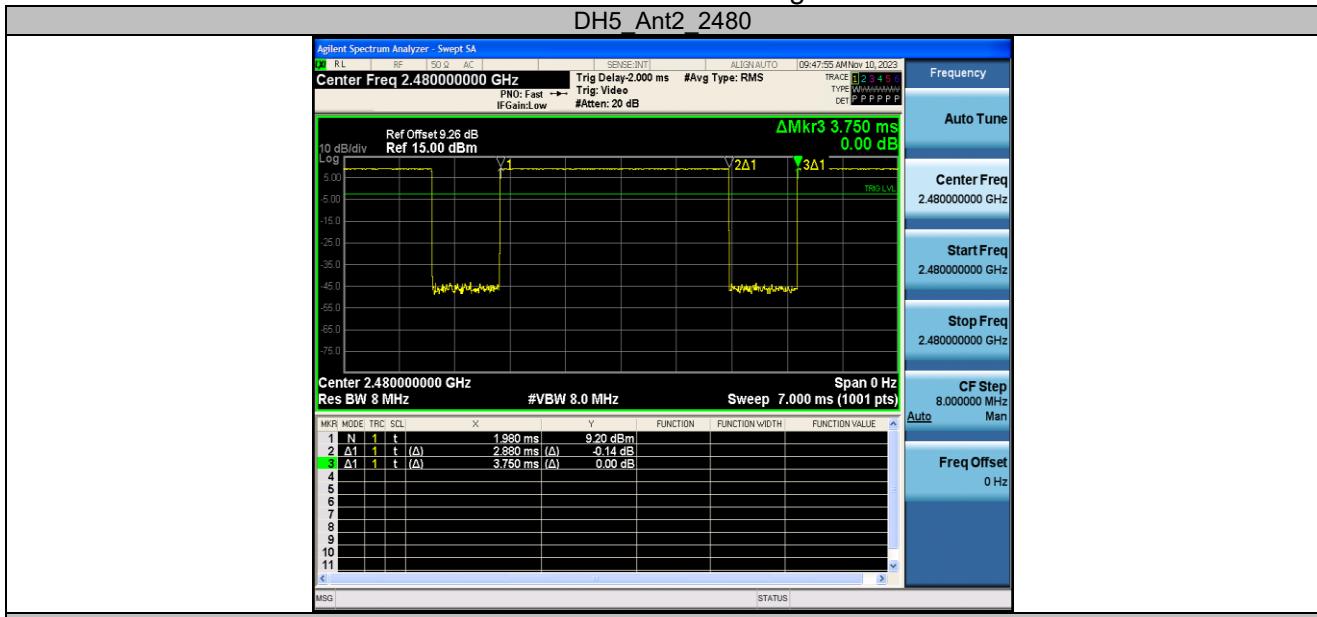
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Page: 80 of 96

DH5 Ant2 2480



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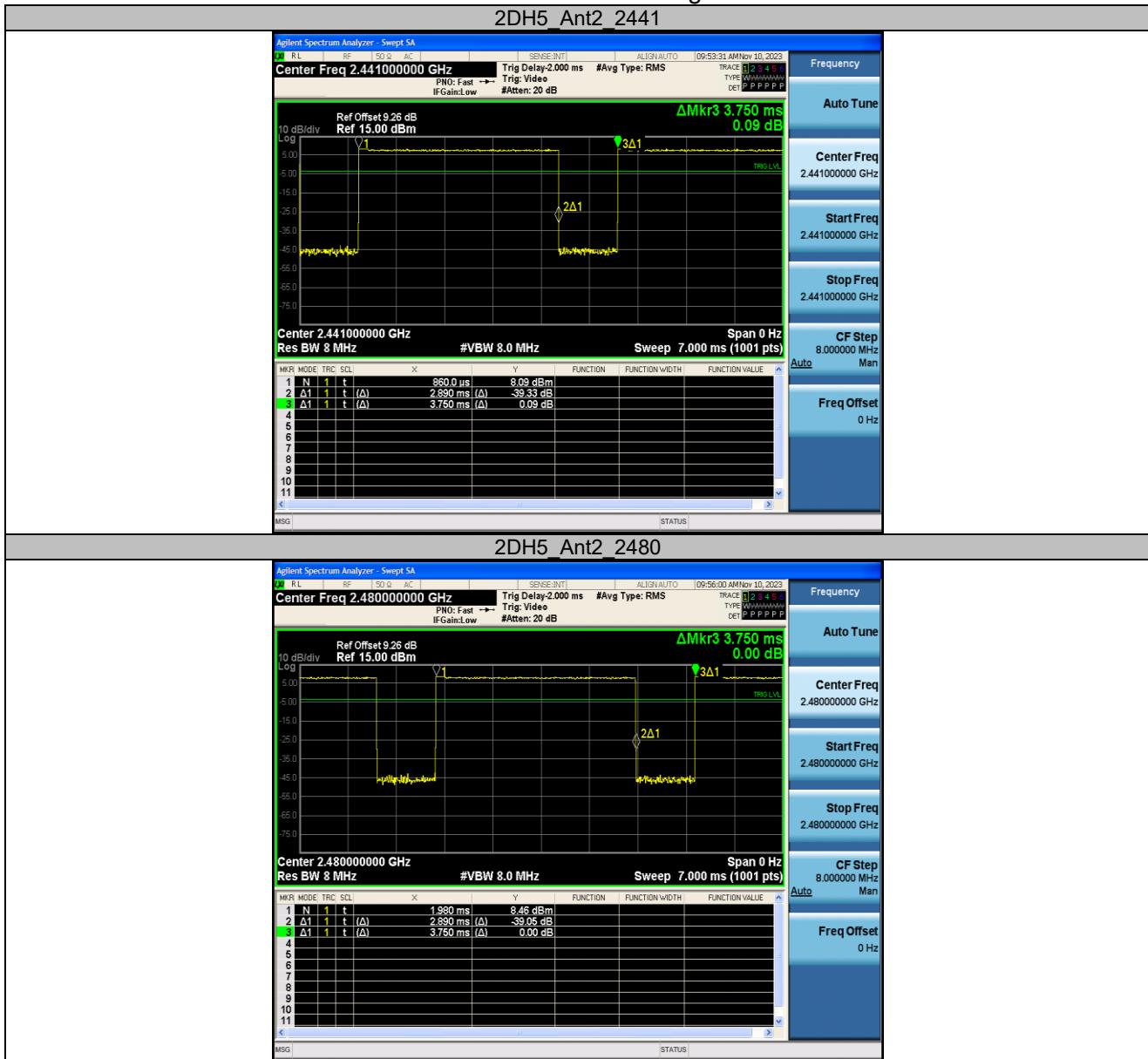
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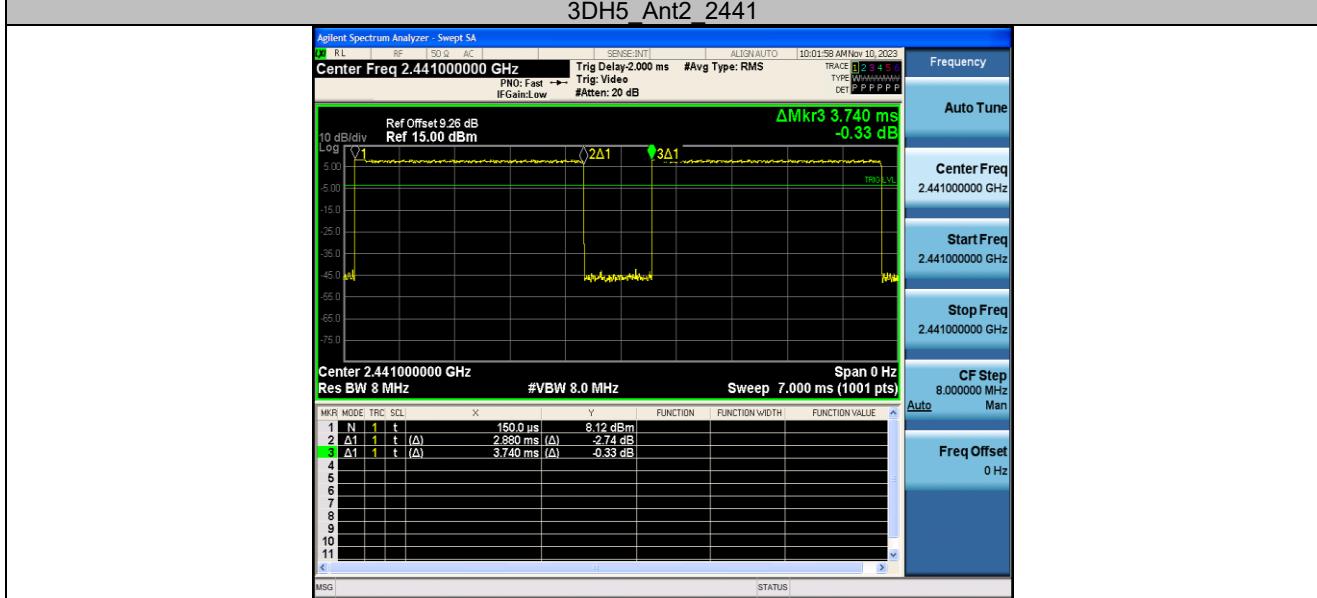
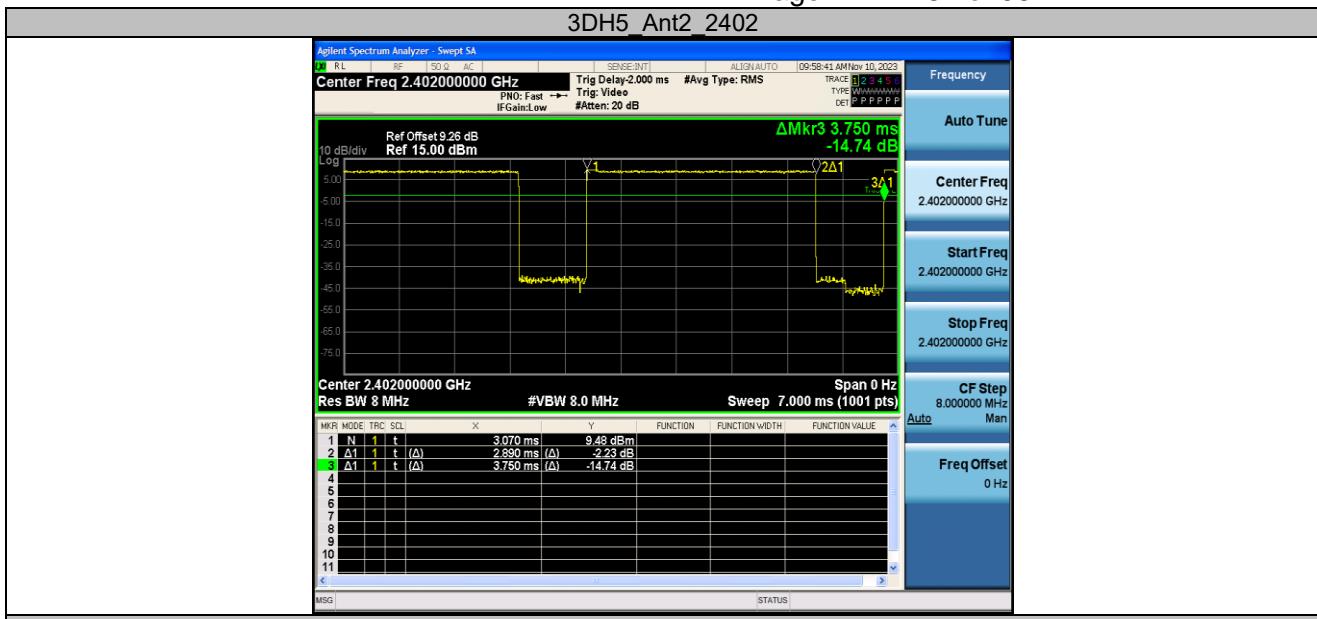
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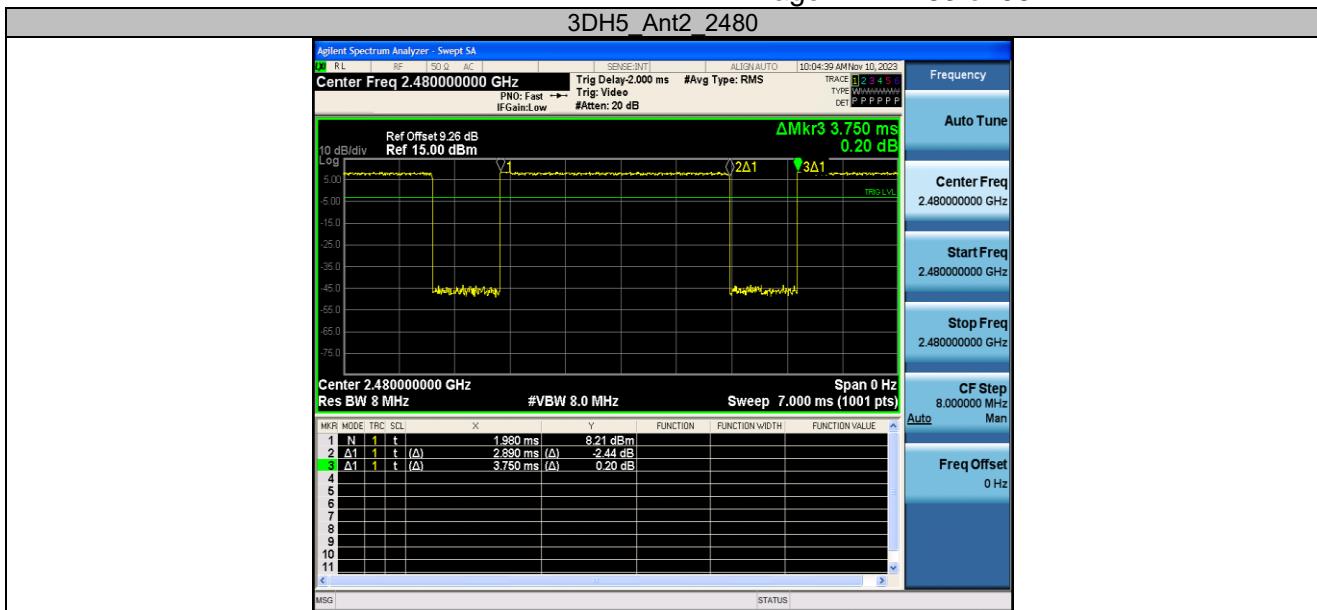
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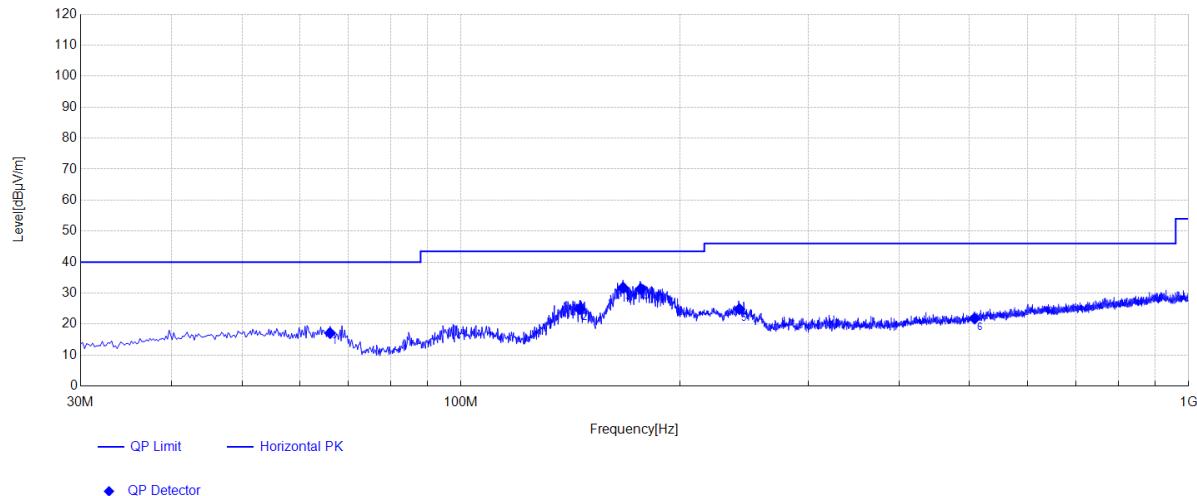
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 84 of 96

## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### Worst case Mode: GFSK\_Channel 78



Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	66.0912	11.79	-26.97	32.29	17.11	40.00	22.89	Horizontal
2	145.6471	7.54	-26.50	43.84	24.88	43.50	18.62	Horizontal
3	166.9914	9.10	-26.24	48.87	31.73	43.50	11.77	Horizontal
4	176.6933	9.23	-26.25	48.38	31.36	43.50	12.14	Horizontal
5	241.3083	12.50	-25.69	38.04	24.85	46.00	21.15	Horizontal
6	508.1116	17.39	-24.40	28.83	21.82	46.00	24.18	Horizontal



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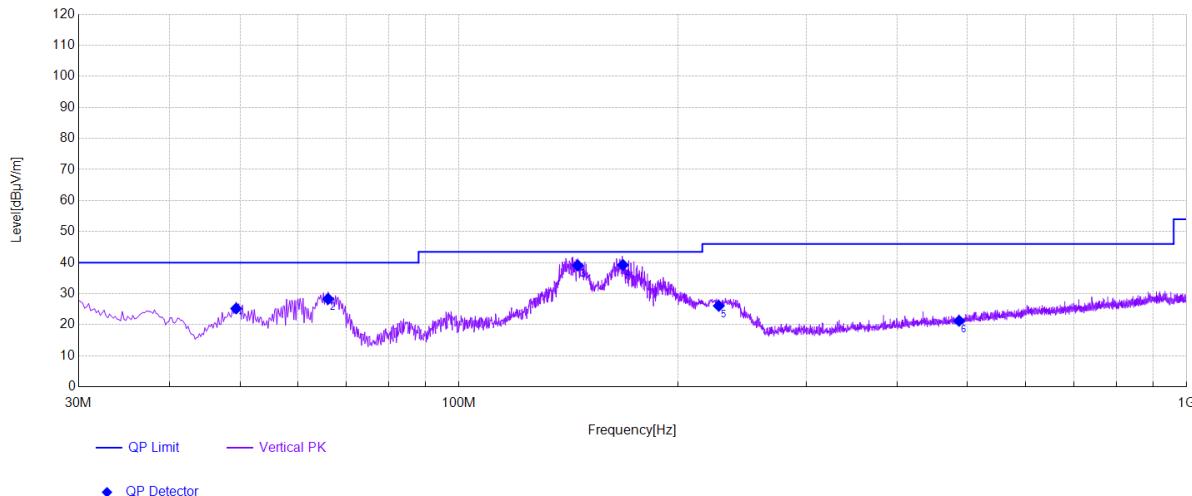
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Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	49.4039	14.16	-27.51	38.59	25.24	40.00	14.76	Vertical
2	66.0912	11.79	-26.97	43.51	28.33	40.00	11.67	Vertical
3	145.6471	7.54	-26.50	58.07	39.11	43.50	4.39	Vertical
4	167.9616	8.81	-26.22	56.69	39.28	43.50	4.22	Vertical
5	227.5315	11.30	-26.11	40.9	26.09	46.00	19.91	Vertical
6	486.7674	16.67	-24.71	29.32	21.28	46.00	24.72	Vertical

#### Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 
$$\text{Value} = \text{Reading(dBμV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dBμV/m)} - \text{Value(dBμV/m)}$$
- All channels have been tested, but only the worst case data displayed in this report.



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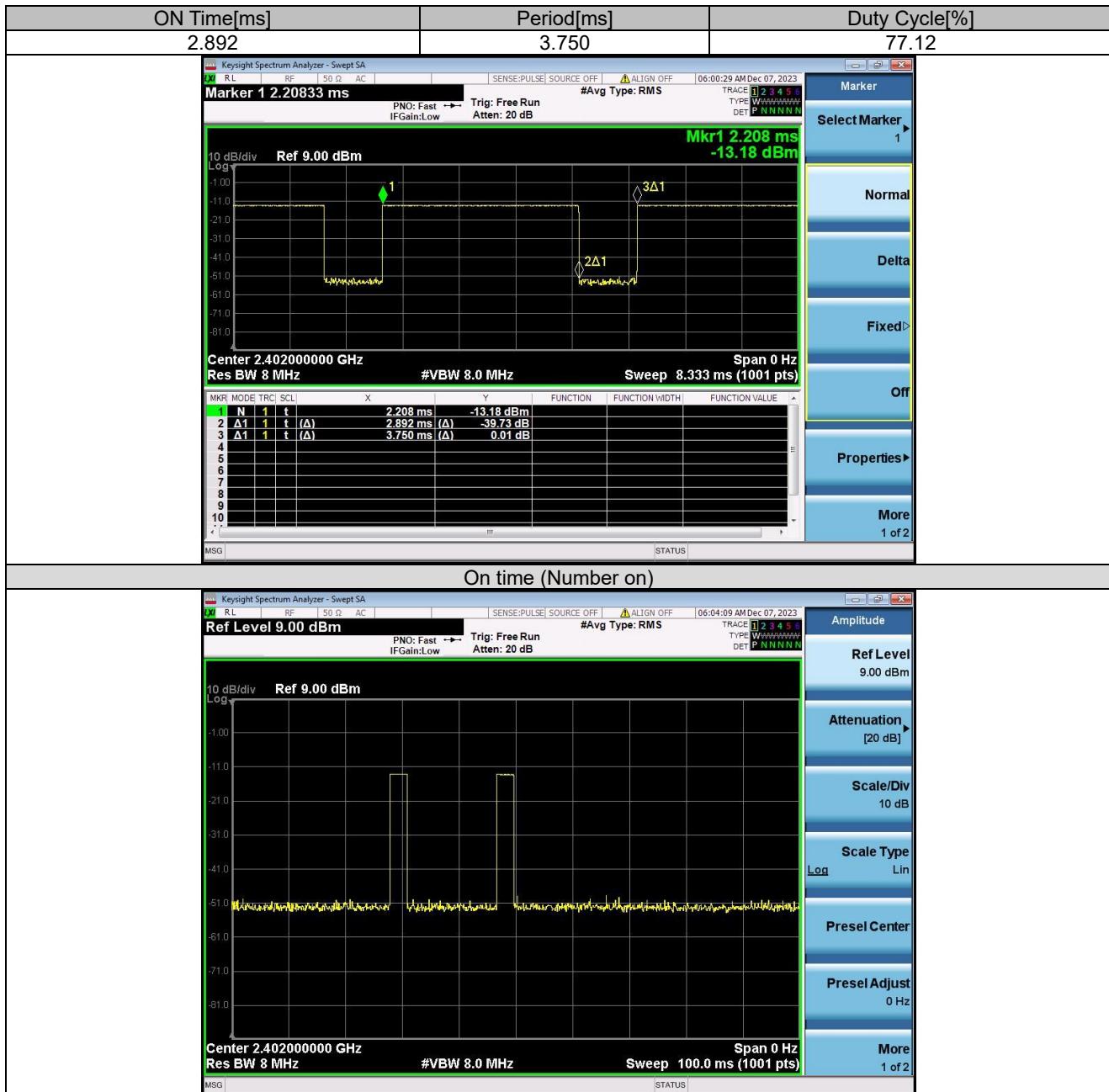
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 86 of 96

## Transmitter emission Above 1GHz

### Duty cycle



Note:

$$\text{Duty cycle} = \text{on time} / 100\text{ms} = 2 * 2.892 / 100 = 5.78\%$$

$$\text{Duty cycle Correction factor} = 20 * \log(\text{Duty cycle}) = -24.76\text{dB}$$



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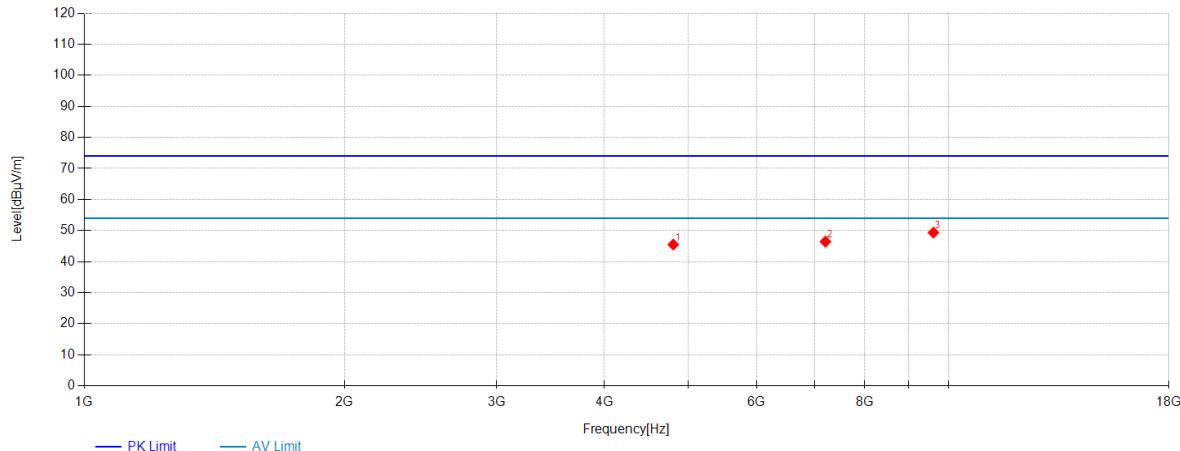
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 Rev.: 01  
 Page: 87 of 96

## GFSK\_Channel 0



Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Polarity
1	4804.5	57.68	30.78	-42.95	45.51	74.00	28.49	Horizontal
	4804.5	-	-	-	20.75	54.00	33.25	-
2	7206	48.60	36.56	-38.71	46.45	74.00	27.55	Horizontal
	7206	-	-	-	21.69	54.00	32.31	-
3	9608	47.20	37.85	-35.70	49.35	74.00	24.65	Horizontal
	9608	-	-	-	24.59	54.00	29.41	-



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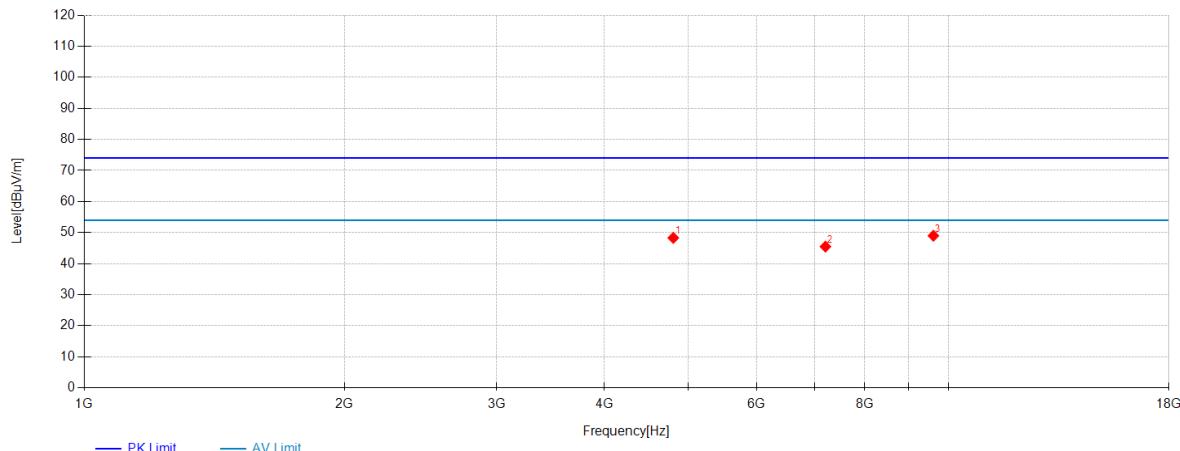
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 88 of 96

## GFSK\_Channel 0



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4804.5	60.47	30.78	-42.95	48.30	74.00	25.70	Vertical
	4804.5	-	-	-	23.54	54.00	30.46	-
2	7206	47.64	36.56	-38.71	45.49	74.00	28.51	Vertical
	7206	-	-	-	20.73	54.00	33.27	-
3	9608	46.83	37.85	-35.70	48.98	74.00	25.02	Vertical
	9608	-	-	-	24.22	54.00	29.78	-



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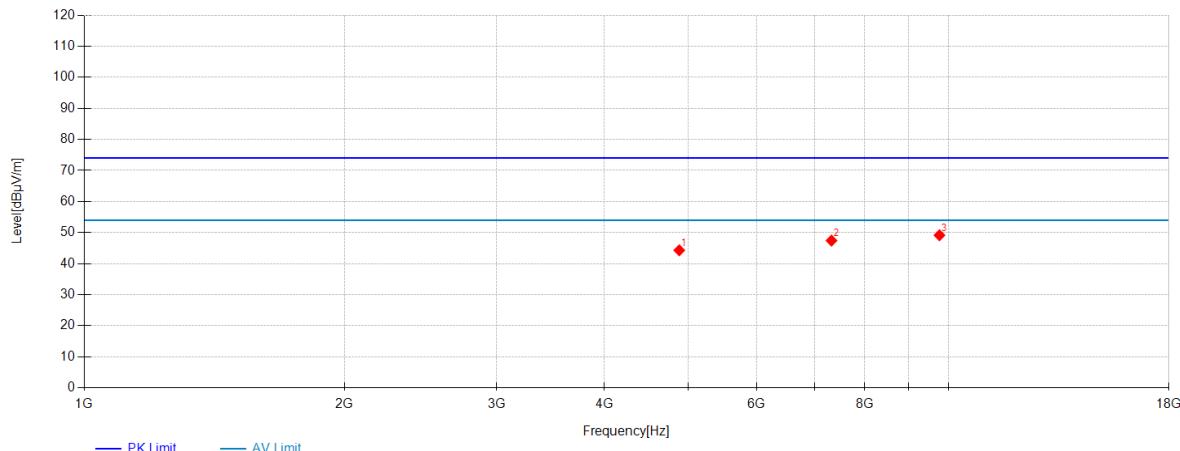
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 89 of 96

## GFSK\_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4881.5	56.40	30.79	-42.89	44.30	74.00	29.70	Horizontal
	4881.5	-	-	-	19.54	54.00	34.46	-
2	7323	49.72	36.45	-38.74	47.43	74.00	26.57	Horizontal
	7323	-	-	-	22.67	54.00	31.33	-
3	9764	46.74	38.36	-35.95	49.15	74.00	24.85	Horizontal
	9764	-	-	-	24.39	54.00	29.61	-



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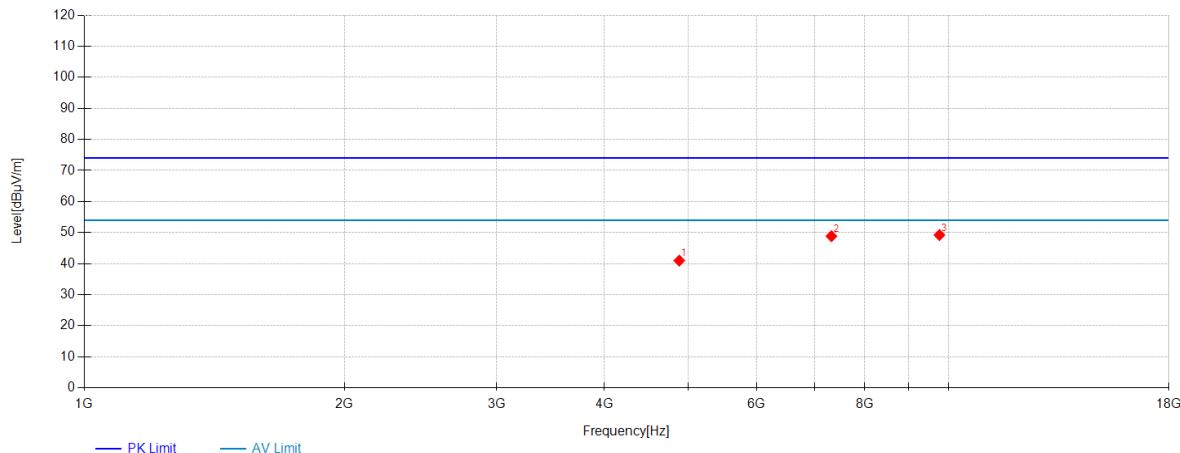
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 90 of 96

## GFSK\_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Polarity
1	4882	53.09	30.79	-42.89	40.99	74.00	33.01	Vertical
	4882	-	-	-	16.23	54.00	37.77	-
2	7323	51.14	36.45	-38.74	48.85	74.00	25.15	Vertical
	7323	-	-	-	24.09	54.00	29.91	-
3	9764	46.82	38.36	-35.95	49.23	74.00	24.77	Vertical
	9764	-	-	-	24.47	54.00	29.53	-



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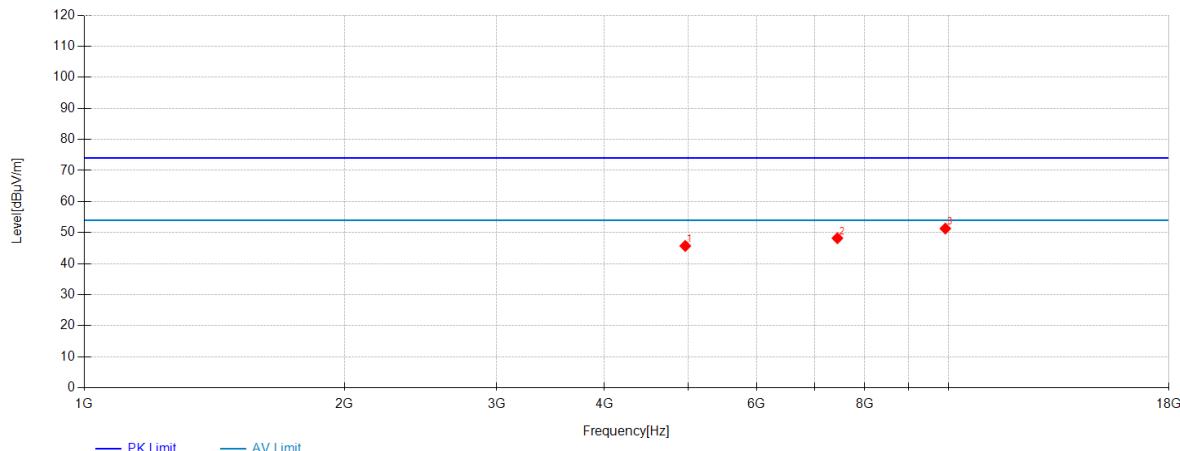
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Rev.: 01  
Page: 91 of 96

**GFSK\_Channel 78**

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Polarity
1	4960.5	57.44	31.04	-42.78	45.70	74.00	28.30	Horizontal
	4960.5	-	-	-	20.94	54.00	33.06	-
2	7440	49.70	36.78	-38.28	48.20	74.00	25.80	Horizontal
	7440	-	-	-	23.44	54.00	30.56	-
3	9920	48.18	38.62	-35.49	51.31	74.00	22.69	Horizontal
	9920	-	-	-	26.55	54.00	27.45	-



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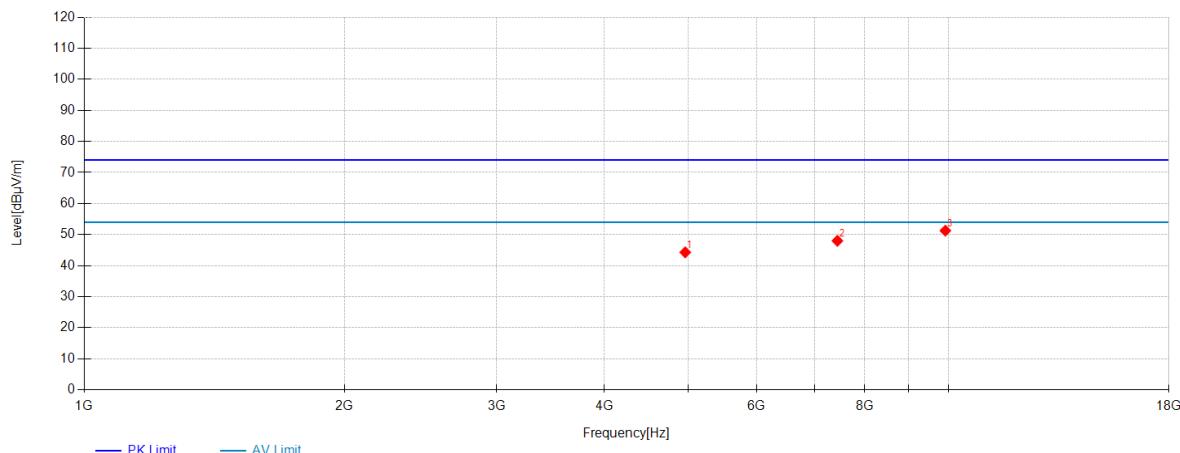
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Rev.: 01  
Page: 92 of 96

## GFSK Channel 78



Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF[dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Polarity
1	4959.5	56.03	31.04	-42.78	44.29	74.00	29.71	Vertical
	4959.5	-	-	-	19.53	54.00	34.47	-
2	7440	49.49	36.78	-38.28	47.99	74.00	26.01	Vertical
	7440	-	-	-	23.23	54.00	30.77	-
3	9920	48.15	38.62	-35.49	51.28	74.00	22.72	Vertical
	9920	-	-	-	26.52	54.00	27.48	-

### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
Level = Reading(dB $\mu$ V) + AF(dB/m) + Factor(dB):  
AF = Antenna Factor(dB/m)  
Factor = Cable Factor(dB) - Preamplifier gain(dB)  
Margin = Limit(dB $\mu$ V/m) – Level(dB $\mu$ V/m)
- 2) All channels have been tested, but only the worst case data displayed in this report.

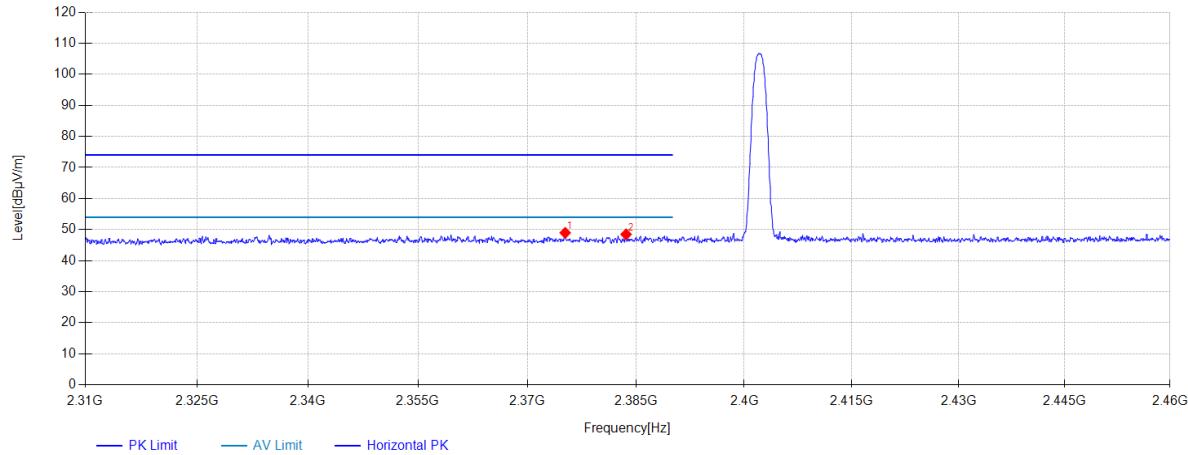
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 Rev.: 01  
 Page: 93 of 96

## Restricted bands around fundamental frequency

### GFSK\_Channel 0



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2375.2076	39.89	27.50	-18.43	48.96	74.00	25.04	Horizontal
	2375.2076	-	-	-	24.20	54.00	29.80	-
2	2383.6118	39.28	27.47	-18.29	48.46	74.00	25.54	Horizontal
	2383.6118	-	-	-	23.70	54.00	30.30	-



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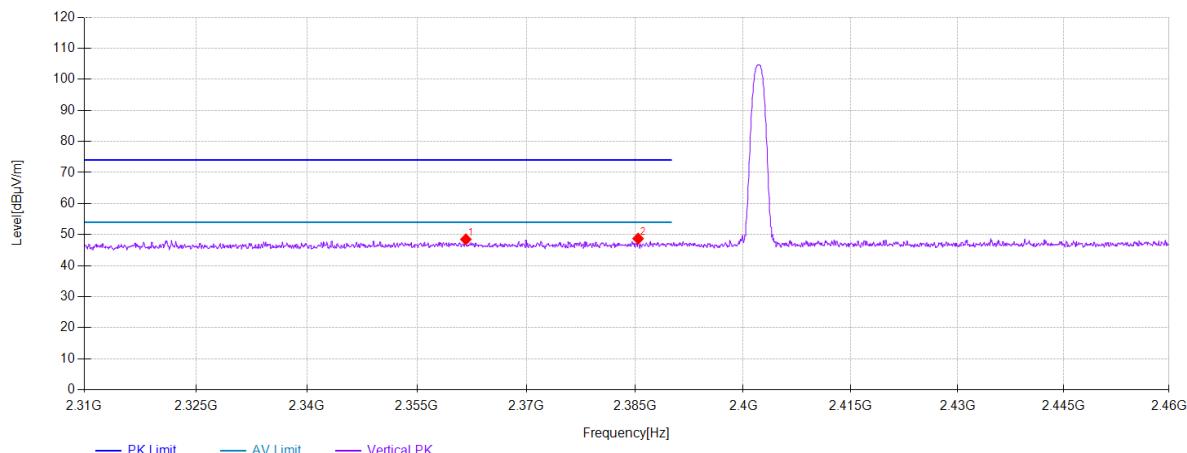
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 Rev.: 01  
 Page: 94 of 96

## GFSK\_Channel 0



Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF[dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Polarity
1	2361.7008	39.19	27.55	-18.27	48.47	74.00	25.53	Vertical
	2361.7008	-	-	-	23.71	54.00	30.29	-
2	2385.4127	39.50	27.46	-18.25	48.71	74.00	25.29	Vertical
	2385.4127	-	-	-	23.95	54.00	30.05	-



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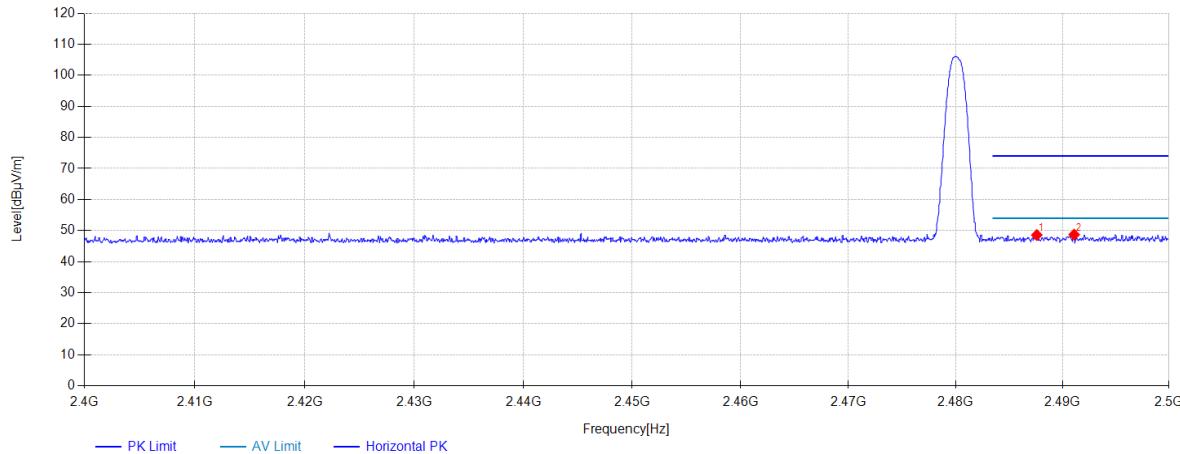
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 95 of 96

## GFSK\_Channel 78



Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Polarity
1	2487.5938	38.99	27.75	-18.17	48.57	74.00	25.43	Horizontal
	2487.5938	-	-	-	23.81	54.00	30.19	-
2	2491.0955	39.12	27.76	-18.17	48.71	74.00	25.29	Horizontal
	2491.0955	-	-	-	23.95	54.00	30.05	-



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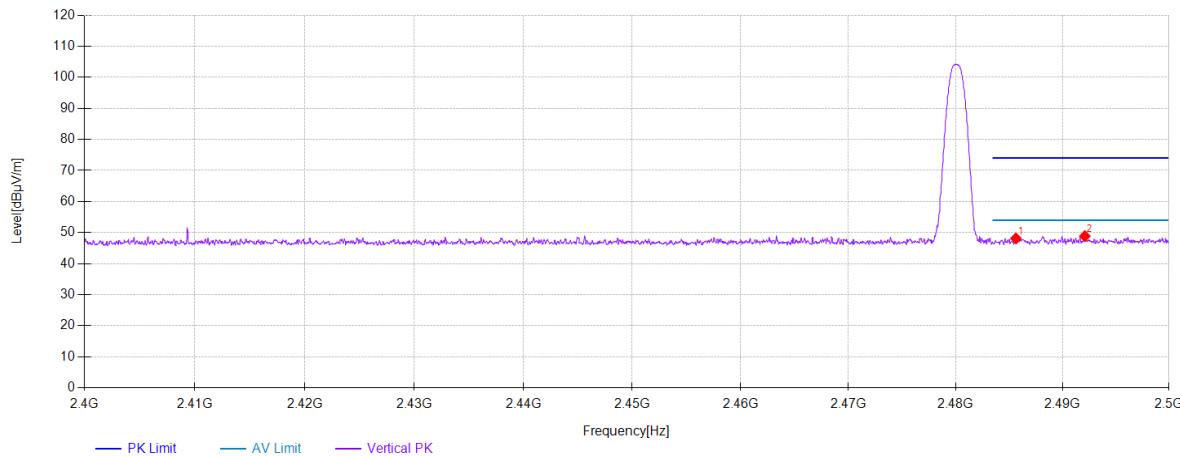
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Report No.: SEWM2312000491RG01  
 Rev.: 01  
 Page: 96 of 96

## GFSK\_Channel 78



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.6428	38.57	27.74	-18.18	48.13	74.00	25.87	Vertical
	2485.6428	-	-	-	23.37	54.00	30.63	-
2	2492.096	39.28	27.77	-18.19	48.86	74.00	25.14	Vertical
	2492.096	-	-	-	24.10	54.00	29.90	-

### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

---End of Report---



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