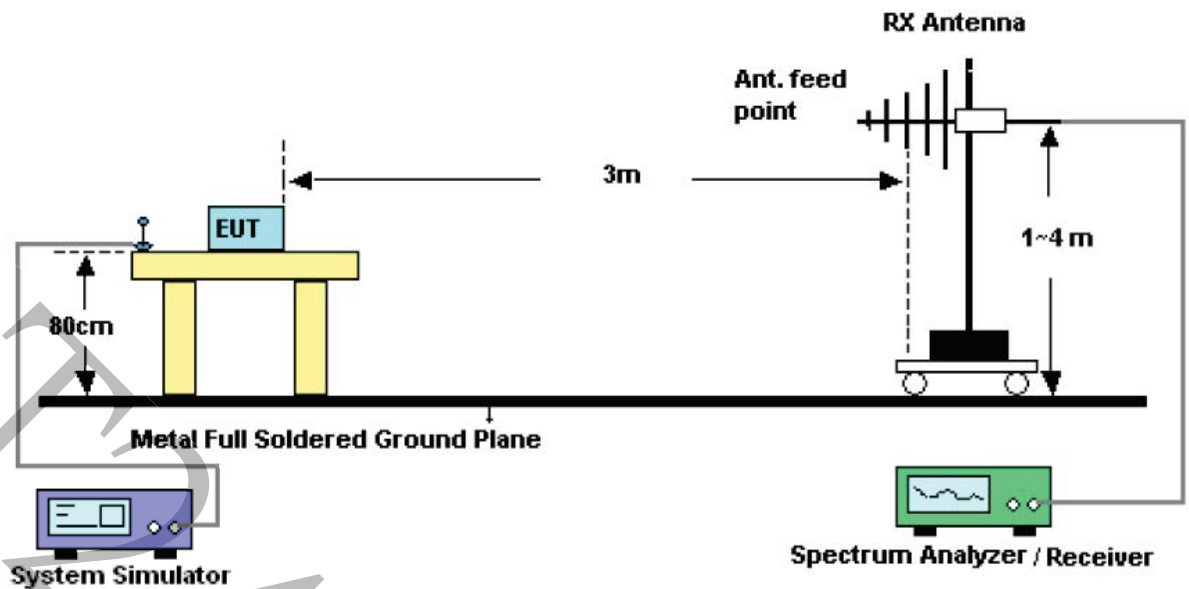
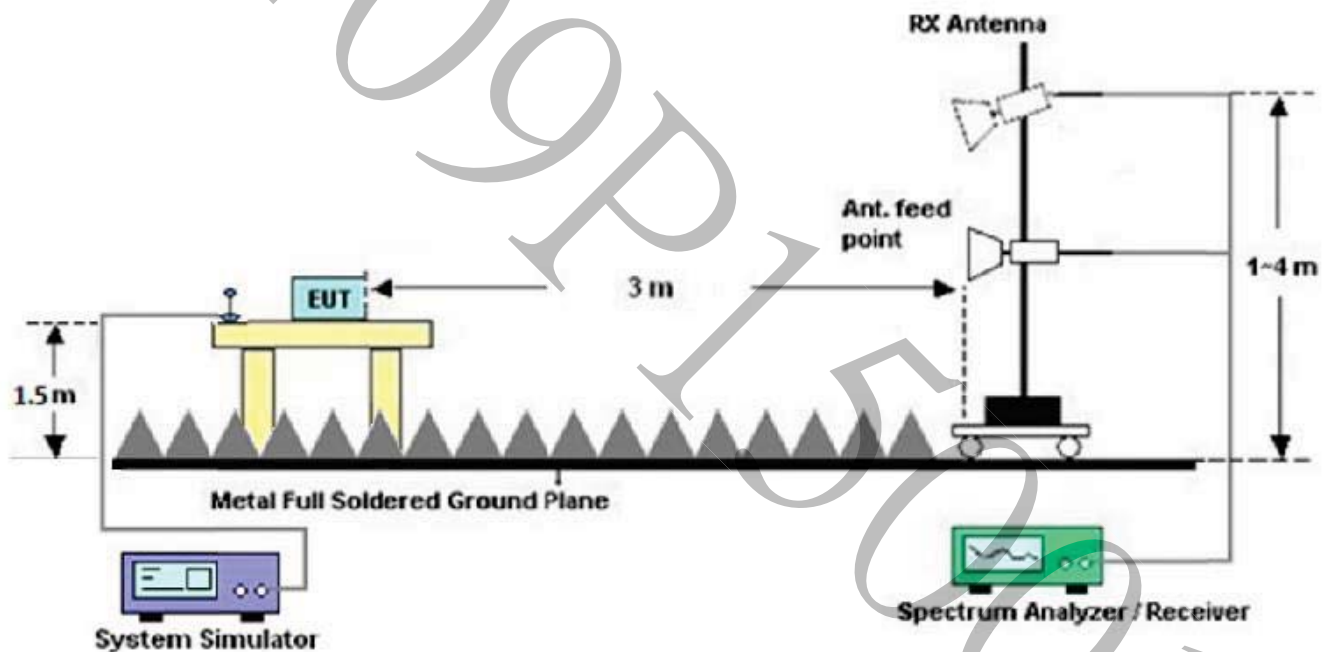


7.3 Typical Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



7.4 Test Result and Data (Fundamental)

Power	:	DC 3.7V		
Test Mode	:	CH0	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60%
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2402.12	106.46	--	-22.07	84.39	--	114	94	-29.61	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2401.73	105.13	--	-22.08	83.05	--	114	94	-30.95	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH19	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60%
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2440.23	107.83	--	-22.08	85.75	--	114	94	-28.25	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2439.99	107.06	--	-22.07	84.99	--	114	94	-29.01	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH39	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60%
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2479.59	108.26	--	-22.55	85.71	--	114	94	-28.29	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2479.65	107.14	--	-22.55	84.59	--	114	94	-29.41	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH0	Temperature	: 22 °C
Test Date	:	Dec. 12, 2024	Humidity	: 70%
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2402.25	106.04	--	-22.07	83.97	--	114	94	-30.03	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2401.83	104.82	--	-22.08	82.74	--	114	94	-31.26	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH19	Temperature	: 22 °C
Test Date	:	Dec. 12, 2024	Humidity	: 70%
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2439.96	106.93	--	-22.07	84.86	--	114	94	-29.14	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2440.18	105.95	--	-22.08	83.87	--	114	94	-30.13	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH39	Temperature	: 22 °C
Test Date	:	Dec. 12, 2024	Humidity	: 70%
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2480.19	107.04	--	-22.55	84.49	--	114	94	-29.51	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2479.86	106.39	--	-22.55	83.84	--	114	94	-30.16	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

7.5 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

7.6 Test Result and Data (30MHz ~ 1GHz, worst emissions found)

Power	:	DC 3.7V		
Test Mode	:	CH19	Temperature	: 28 °C
Test Date	:	Sep. 13, 2024	Humidity	: 60 %
Memo	:			

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Read (dBuV)	Factor	Amplitude (dBuV/m)	Limits (dBuV/m)	Margin (dB)
31.29	43.53	-12.80	30.73	40	-9.27
119.70	41.91	-24.33	17.58	43.5	-25.92
133.60	37.28	-23.69	13.59	43.5	-29.91
215.09	36.39	-19.49	16.90	43.5	-26.60
952.67	35.25	2.27	37.52	46	-8.48
996.02	34.37	2.40	36.77	54	-17.23

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Read (dBuV/m)	Factor	Amplitude (dBuV/m)	Limits (dBuV/m)	Margin (dB)
30.23	34.41	-12.00	22.41	40	-17.59
43.04	34.39	-18.97	15.42	40	-24.58
131.97	35.67	-23.76	11.91	43.5	-31.59
135.63	35.71	-23.44	12.27	43.5	-31.23
951.15	34.57	2.21	36.78	46	-9.22
996.40	33.95	2.40	36.35	54	-17.65

Notes :

1. Amplitude = Reading Amplitude + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
3. The resolution bandwidth of test receiver/spectrum analyzer is 120 KHz and video bandwidth is 300 KHz for Quasi-peak detection at frequency 30 MHz~1GHz.
4. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH19	Temperature	: 20 °C
Test Date	:	Dec. 16, 2024	Humidity	: 70 %
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Read (dBuV)	Factor	Amplitude (dBuV/m)	Limits (dBuV/m)	Margin (dB)
31.92	43.30	-12.80	30.50	40	-9.50
119.17	38.18	-22.81	15.37	43.5	-28.13
150.05	48.11	-22.19	25.92	43.5	-17.58
161.99	34.33	-20.65	13.68	43.5	-29.82
252.52	34.45	-16.67	17.78	46	-28.22
951.64	29.62	2.48	32.10	46	-13.90

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Read (dBuV/m)	Factor	Amplitude (dBuV/m)	Limits (dBuV/m)	Margin (dB)
31.97	30.51	-12.83	17.68	40	-22.32
288.24	35.75	-16.64	19.11	46	-26.89
891.39	30.43	1.35	31.78	46	-14.22
933.93	32.80	2.36	35.16	46	-10.84
950.98	30.70	2.48	33.18	46	-12.82
999.16	31.00	2.79	33.79	54	-20.21

Notes :

1. Amplitude = Reading Amplitude + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
3. The resolution bandwidth of test receiver/spectrum analyzer is 120 KHz and video bandwidth is 300 KHz for Quasi-peak detection at frequency 30 MHz~1GHz.
4. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

7.7 Test Result and Data (Above 1GHz)

Power	:	DC 3.7V		
Test Mode	:	CH0	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60 %
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1246.67	64.73	--	-24.90	39.83	--	74	54	-34.17	--
1496.67	67.86	--	-24.77	43.09	--	74	54	-30.91	--
2200.00	65.84	--	-21.78	44.06	--	74	54	-29.94	--
4800.00	70.41	--	-17.66	52.75	--	74	54	-21.25	--
14650.00	46.20	--	3.37	49.57	--	74	54	-24.43	--
17125.00	44.19	--	9.45	53.64	--	74	54	-20.36	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1246.67	63.22	--	-24.90	38.32	--	74	54	-35.68	--
1496.67	63.66	--	-24.77	38.89	--	74	54	-35.11	--
2336.67	60.37	--	-22.26	38.11	--	74	54	-35.89	--
4800.00	69.81	--	-17.66	52.15	--	74	54	-21.85	--
14650.00	46.82	--	3.37	50.19	--	74	54	-23.81	--
17125.00	43.62	--	9.45	53.07	--	74	54	-20.93	--

Notes :

1. Amplitude = Reading Amplitude + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.

4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
5. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement at frequency above 1GHz.
6. The Peak Value have already met the Average Value Limit showed on above limits.
7. $\text{Margin} < 0$ is Pass , $\text{Margin} \geq 0$ is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH19	Temperature	: 28°C
Test Date	:	Sep. 12, 2024	Humidity	: 60 %
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1496.67	68.48	--	-24.77	43.71	--	74	54	-30.29	--
2053.33	65.95	--	-23.89	42.06	--	74	54	-31.94	--
2256.67	66.42	--	-22.06	44.36	--	74	54	-29.64	--
4875.00	66.95	--	-17.62	49.33	--	74	54	-24.67	--
14800.00	45.26	--	3.94	49.20	--	74	54	-24.80	--
17150.00	44.47	--	9.49	53.96	--	74	54	-20.04	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1020.00	64.33	--	-25.96	38.37	--	74	54	-35.63	--
1246.67	62.96	--	-24.90	38.06	--	74	54	-35.94	--
2280.00	60.28	--	-21.94	38.34	--	74	54	-35.66	--
4875.00	63.90	--	-17.62	46.28	--	74	54	-27.72	--
14625.00	45.89	--	3.13	49.02	--	74	54	-24.98	--
17075.00	43.06	--	9.64	52.70	--	74	54	-21.30	--

Notes :

- 1.The Peak Value have already met the Average Value Limit showed on above limits.
2. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH39	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60 %
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1500.00	68.86	--	-24.79	44.07	--	74	54	-29.93	--
2103.33	67.35	--	-23.15	44.20	--	74	54	-29.80	--
2343.33	66.40	--	-22.39	44.01	--	74	54	-29.99	--
4950.00	65.28	--	-17.65	47.63	--	74	54	-26.37	--
14725.00	46.57	--	3.75	50.32	--	74	54	-23.68	--
17175.00	44.12	--	9.38	53.50	--	74	54	-20.50	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1246.67	63.94	--	-24.90	39.04	--	74	54	-34.96	--
1496.67	63.73	--	-24.77	38.96	--	74	54	-35.04	--
2233.33	60.48	--	-22.05	38.43	--	74	54	-35.57	--
4950.00	60.05	--	-17.65	42.40	--	74	54	-31.60	--
14775.00	45.24	--	3.84	49.08	--	74	54	-24.92	--
17150.00	44.16	--	9.49	53.65	--	74	54	-20.35	--

Notes :

- 1.The Peak Value have already met the Average Value Limit showed on above limits.
2. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH19	Temperature	: 22°C
Test Date	:	Dec. 12, 2024	Humidity	: 70 %
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1006.67	69.43	--	-25.89	43.54	--	74	54	-30.46	--
1416.67	68.18	--	-24.37	43.81	--	74	54	-30.19	--
1820.00	68.24	--	-24.86	43.38	--	74	54	-30.62	--
4875.00	56.42	--	-17.62	38.80	--	74	54	-35.20	--
14825.00	46.90	--	3.65	50.55	--	74	54	-23.45	--
17175.00	43.48	--	9.38	52.86	--	74	54	-21.14	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
1006.67	63.89	--	-25.89	38.00	--	74	54	-36.00	--
1813.33	62.96	--	-24.89	38.07	--	74	54	-35.93	--
2226.67	59.95	--	-22.03	37.92	--	74	54	-36.08	--
10525.00	45.32	--	0.40	45.72	--	74	54	-28.28	--
14800.00	46.16	--	3.94	50.10	--	74	54	-23.90	--
17325.00	43.71	--	8.42	52.13	--	74	54	-21.87	--

Notes :

- 1.The Peak Value have already met the Average Value Limit showed on above limits.
2. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

7.8 Test Result and Data (Band Edge)

Power	:	DC 3.7V		
Test Mode	:	CH0	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60%
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2352.01	67.39	--	-22.52	44.87	--	74	54	-29.13	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2350.92	65.98	--	-22.51	43.47	--	74	54	-30.53	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH39	Temperature	: 28 °C
Test Date	:	Sep. 12, 2024	Humidity	: 60%
Memo	:			

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2483.52	66.84	--	-22.54	44.30	--	74	54	-29.70	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2499.55	65.48	--	-22.51	42.97	--	74	54	-31.03	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH0	Temperature	: 22 °C
Test Date	:	Dec. 12, 2024	Humidity	: 70%
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2323.02	66.47	--	-22.12	44.35	--	74	54	-29.65	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2313.26	65.04	--	-22.06	42.98	--	74	54	-31.02	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

Power	:	DC 3.7V		
Test Mode	:	CH39	Temperature	: 22 °C
Test Date	:	Dec. 12, 2024	Humidity	: 70%
Memo	:	NP-01S V2 Wireless		

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2490.03	66.07	--	-22.54	43.53	--	74	54	-30.47	--

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Read (dBuV)		Factor	Amplitude (dBuV/m)		Limits (dBuV/m)		Margin (dB)	
	PK	AV		PK	AV	PK	AV	PK	AV
2496.36	65.44	--	-22.53	42.91	--	74	54	-31.09	--

- Notes :**
1. Amplitude = Reading Amplitude + Factor
 2. Factor = Antenna Factor + Cable Loss – Amplifier Gain
 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz RMS detector for Average Value at frequency above 1GHz
 5. The Peak Value have already met the Average Value Limit showed on above limits.
 6. Margin<0 is Pass , Margin $\geq$ 0 is Fail.

8. 20dB Bandwidth Measurement

8.1 Test Setup

Please refer to section 7.3 (for radiated emissions above 1GHz).

8.2 Test Limit

N/A

8.3 Test Procedures

- Set RBW=30KHz and VBW=100 KHz.
- The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.
- The 20dB Bandwidth was measured and recorded.

8.4 Test Data

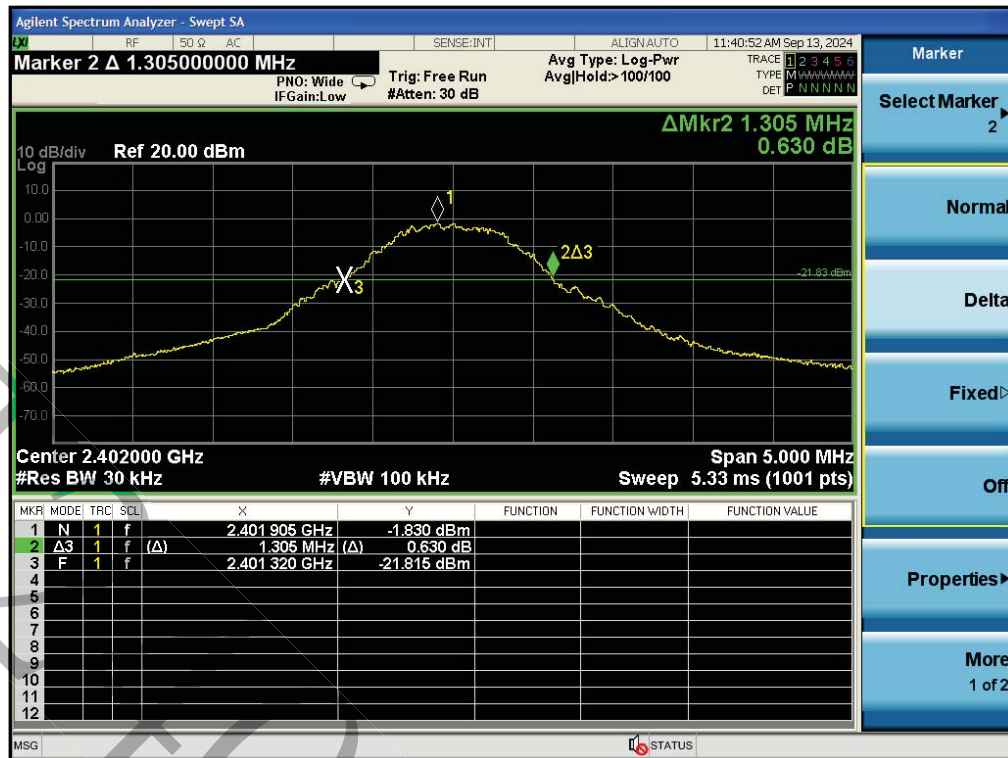
Test Date: SEP. 13, 2024

Temperature: 28 °C

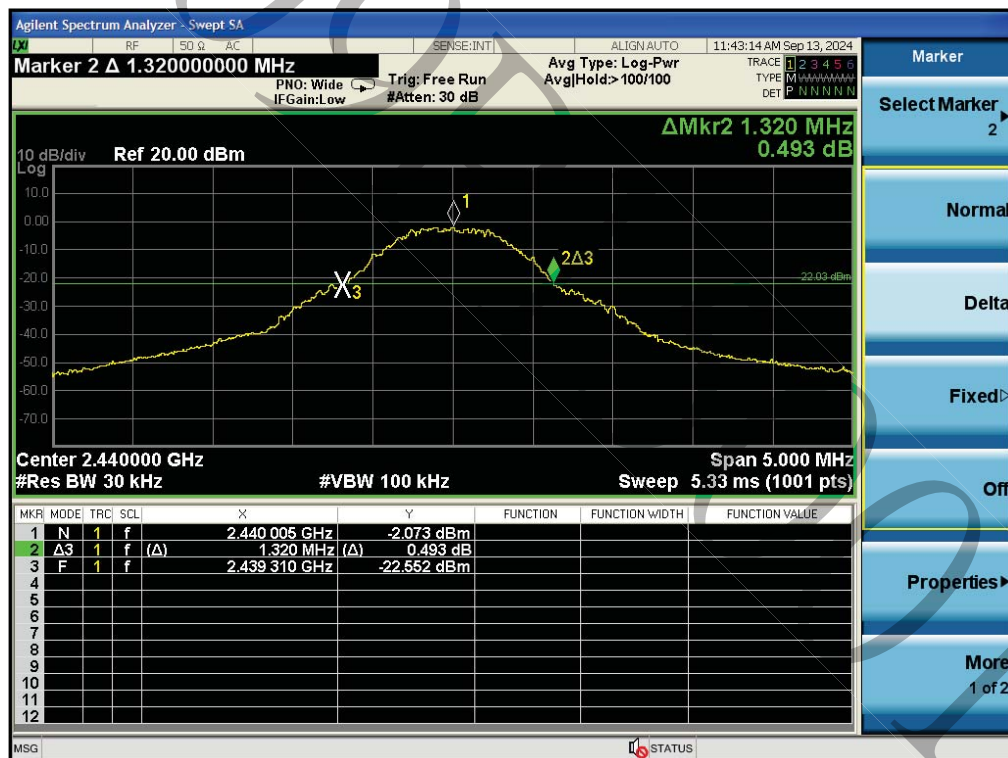
Humidity: 60 %

Modulation Type	Channel	Frequency (MHz)	20dB Bandwidth (MHz)
GFSK	0	2402	1.31
	19	2440	1.32
	39	2480	1.29

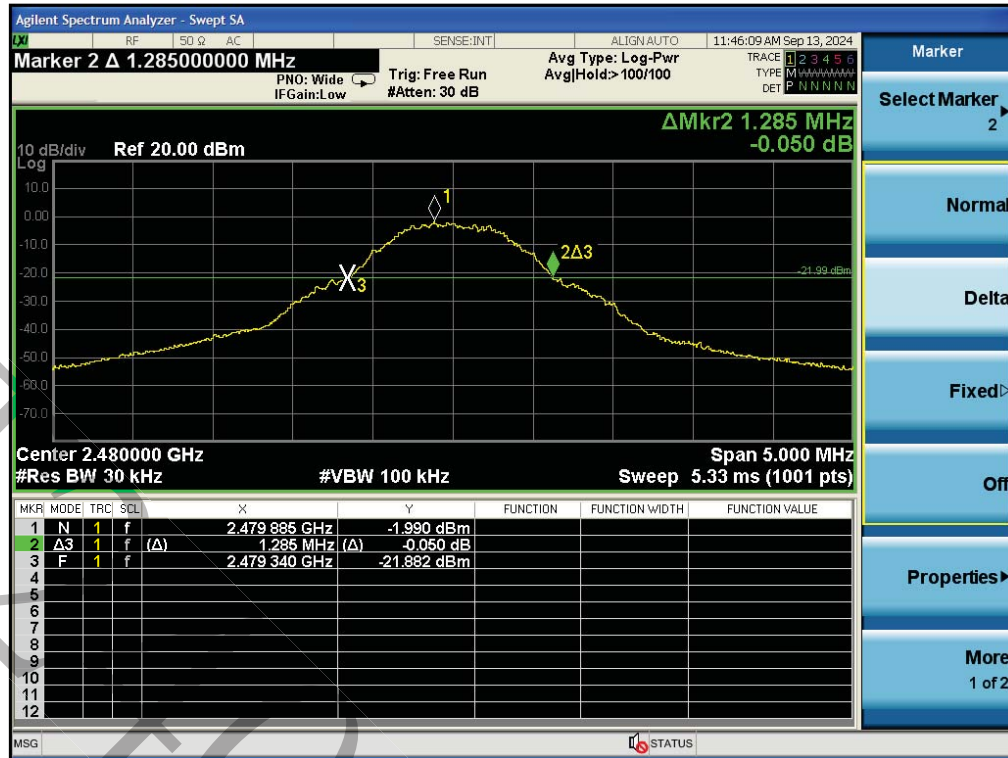
Modulation Standard: GFSK
Channel: 0



Modulation Standard: GFSK
Channel: 19



Modulation Standard: GFSK
Channel: 39



9. 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			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

9.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.