

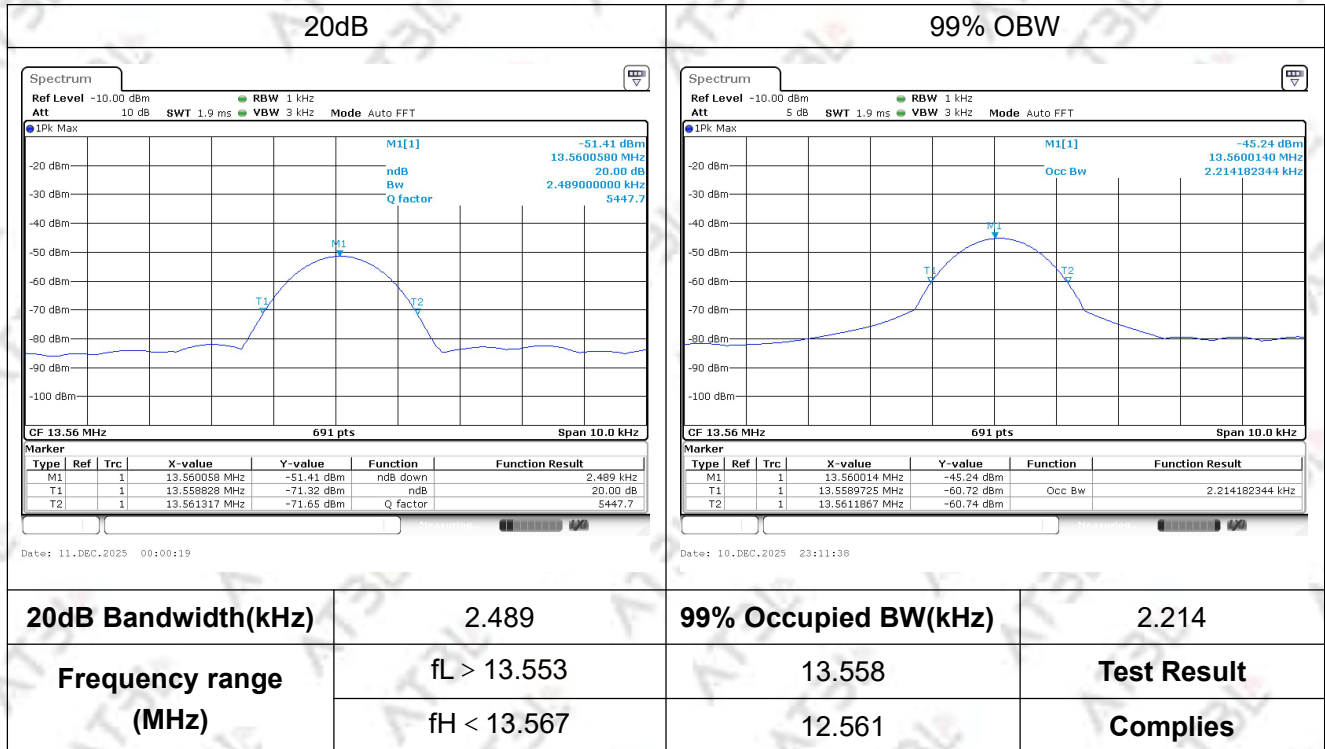
Appendix A2

NFC Test Data

Conducted Test Data

20dB Bandwidth and 99% Bandwidth

Temperature:	24°C	Relative Humidity:	53%RH
Test Voltage:	DC 5V	Test Mode:	NFC



Frequency Stability

Operating frequency: 13.56MHz

Voltage vs. Frequency Stability (Test Temperature: 20°C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Limit(ppm)	Conclusion
4.8	13.560058	+4.28	±100	PASS
5.0	13.560058			
5.5	13.560058			

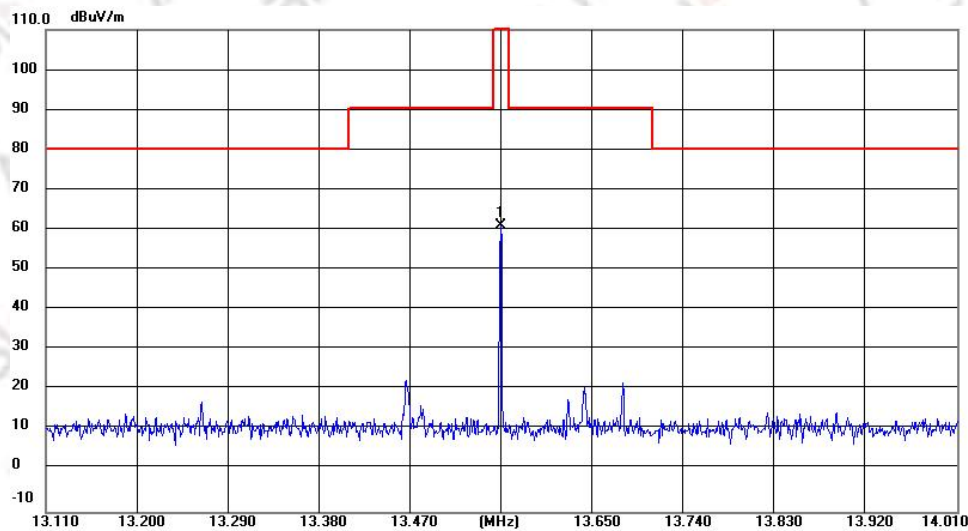
Temperature vs. Frequency Stability (Test Voltage: 12.0V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (ppm)	Limit(ppm)	Conclusion
-30°C	13.560058	+4.28	±100	PASS
-20°C	13.560058			
-10°C	13.560058			
0°C	13.560058			
10°C	13.560058			
20°C	13.560058			
30°C	13.560058			
40°C	13.560058			
50°C	13.560058			

Radiated Test Data

Field Strength of Fundamental Emissions

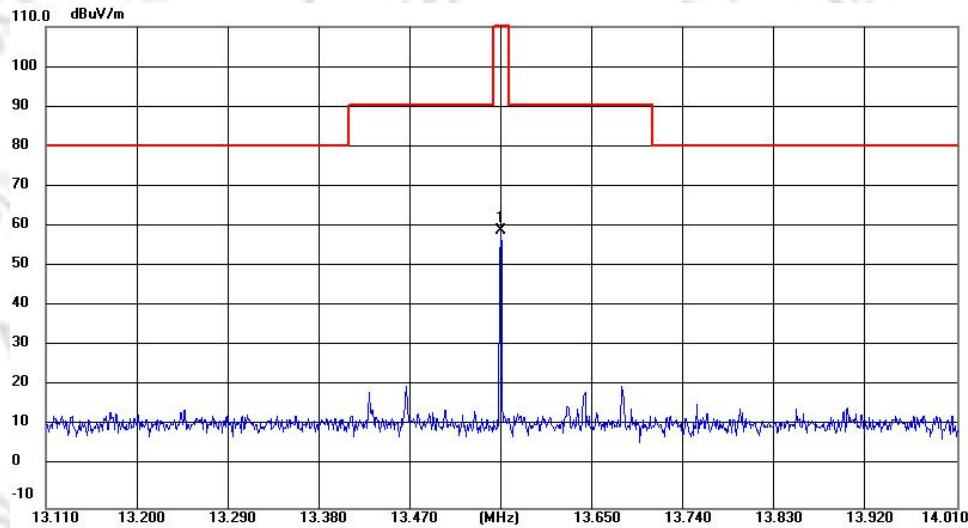
Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 5V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	13.5591	41.65	19.70	61.35	124.00	-62.65	H

Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 5V	Test Mode:	NFC V



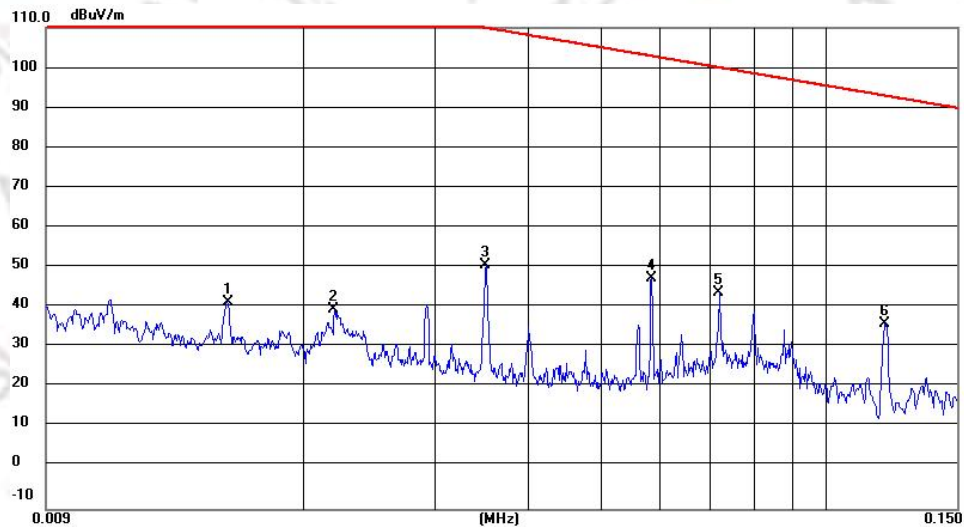
Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	13.5591	39.39	19.70	59.09	124.00	-64.91	V

Radiated Spurious Emission

(9kHz~150kHz)

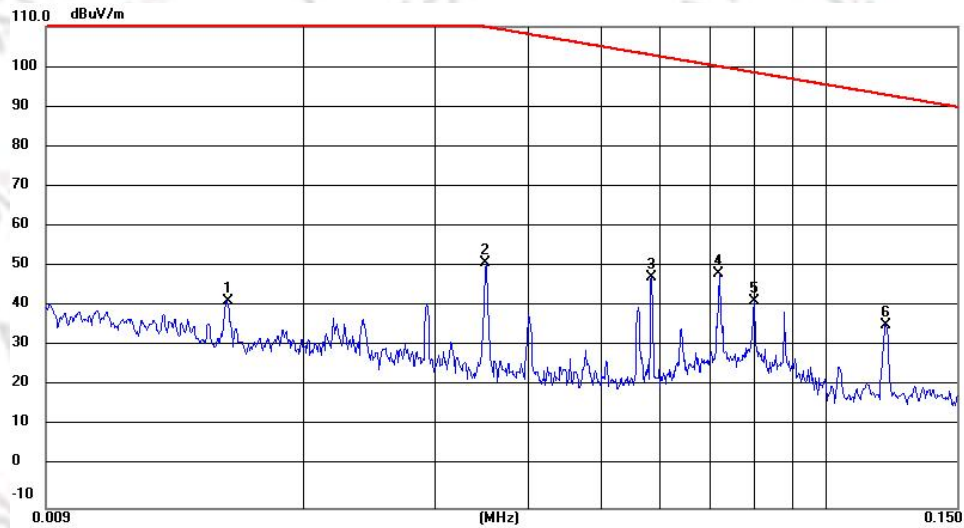
Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	DC 5V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.0157	7.95	33.83	41.78	120.90	-79.12	H
2	0.0218	8.32	31.54	39.86	116.41	-76.55	H
3	0.0350	23.33	27.47	50.80	109.93	-59.13	H
4	0.0584	21.64	26.01	47.65	102.92	-55.27	H
5	0.0719	15.55	28.53	44.08	100.07	-55.99	H
6	0.1201	13.58	22.74	36.32	93.05	-56.73	H

Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 5V	Test Mode:	NFC V

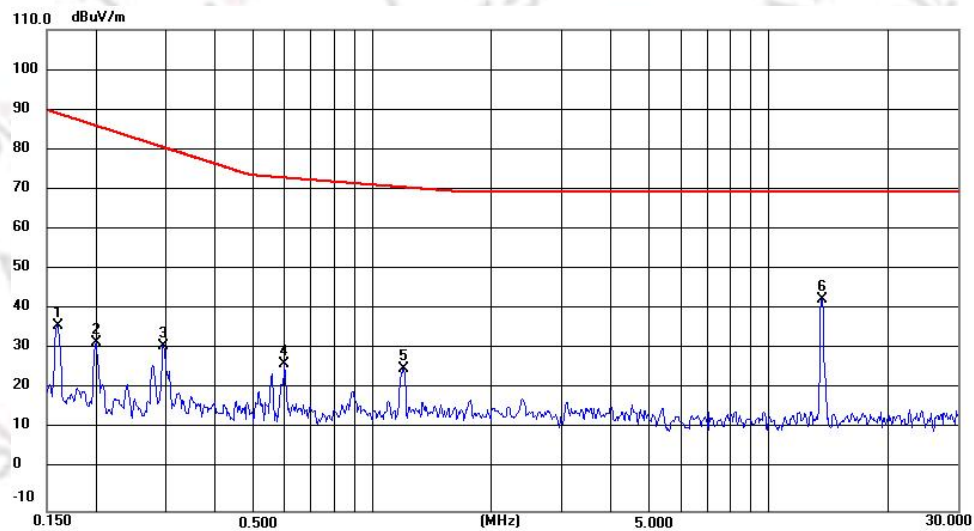


Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.0157	7.80	33.83	41.63	120.90	-79.27	V
2	0.0350	23.65	27.47	51.12	109.93	-58.81	V
3	0.0584	21.48	26.01	47.49	102.92	-55.43	V
4	0.0719	19.84	28.53	48.37	100.07	-51.70	V
5	0.0800	11.75	30.04	41.79	98.61	-56.82	V
6	0.1204	13.00	22.74	35.74	93.01	-57.27	V

(150kHz~30MHz)

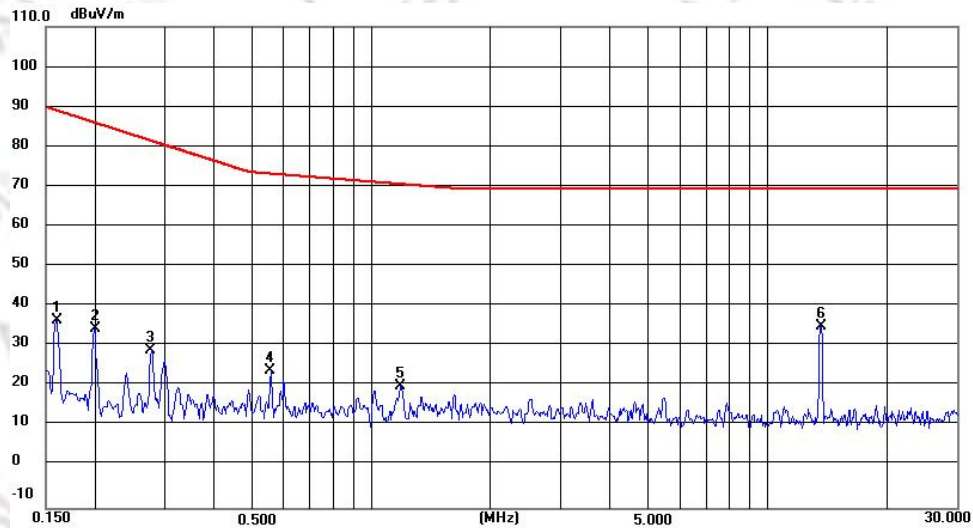
Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	DC 5V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.1600	13.90	22.52	36.42	89.12	-52.70	H
2	0.2000	9.84	22.30	32.14	86.07	-53.93	H
3	0.2960	9.61	21.77	31.38	80.70	-49.32	H
4	0.5980	5.24	21.68	26.92	73.12	-46.20	H
5	1.1970	3.94	21.74	25.68	70.75	-45.07	H
6	13.6230	23.14	19.70	42.84	69.54	-26.70	H

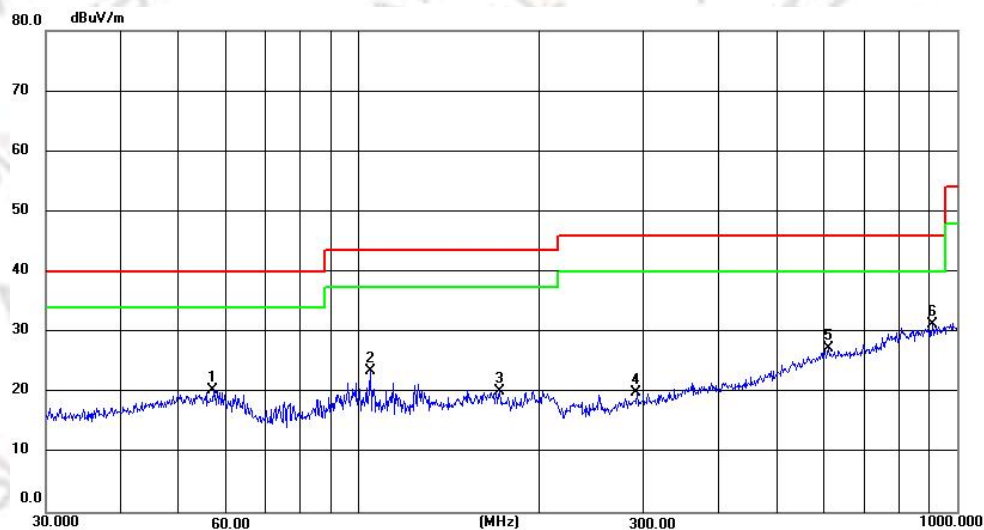
Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 5V	Test Mode:	NFC V



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	0.1600	14.23	22.52	36.75	89.12	-52.37	V
2	0.2000	12.45	22.30	34.75	86.07	-51.32	V
3	0.2770	7.48	21.88	29.36	81.61	-52.25	V
4	0.5550	2.64	21.67	24.31	73.37	-49.06	V
5	1.1840	-1.30	21.74	20.44	70.79	-50.35	V
6	13.6230	15.76	19.70	35.46	69.54	-34.08	V

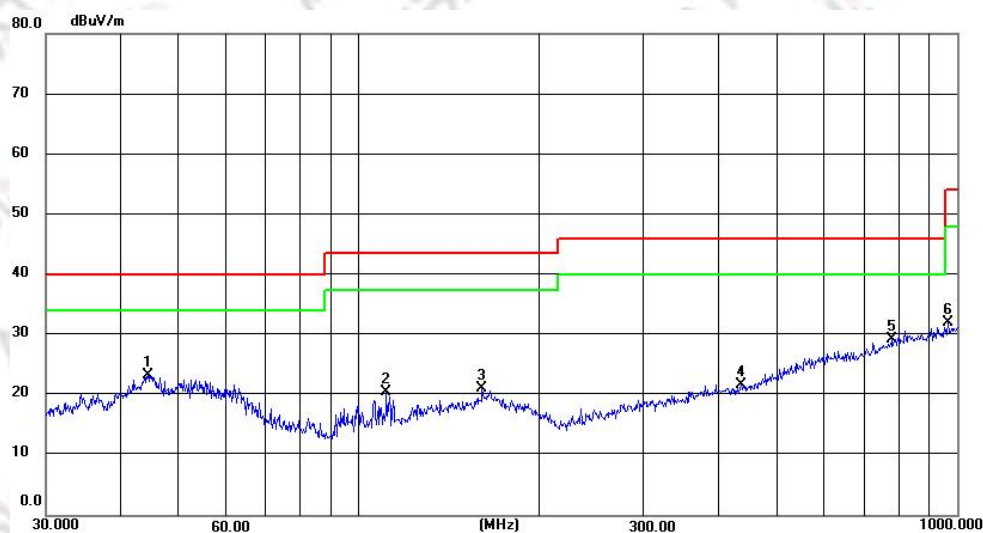
Temperature:	26°C	Relative Humidity:	45%
Test Voltage:	DC 5V	Test Mode:	NFC H



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	57.1910	31.45	-11.14	20.31	40.00	-19.69	H
2	104.5360	53.33	-29.73	23.60	43.50	-19.90	H
3	171.9950	50.06	-30.00	20.06	43.50	-23.44	H
4	292.0580	50.13	-30.25	19.88	46.00	-26.12	H
5	609.9220	56.09	-28.80	27.29	46.00	-18.71	H
6	909.6670	60.04	-28.74	31.30	46.00	-14.70	H

Temperature:	26°C	Relative Humidity:	45%
Test Voltage:	DC 5V	Test Mode:	NFC V



Test Summary Result

Mk.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.
Peak:							
1	44.4310	34.67	-11.36	23.31	40.00	-16.69	V
2	111.3470	50.21	-29.75	20.46	43.50	-23.04	V
3	160.9090	51.00	-29.95	21.05	43.50	-22.45	V
4	435.5900	51.91	-30.11	21.80	46.00	-24.20	V
5	779.6070	58.05	-28.69	29.36	46.00	-16.64	V
6	965.5420	60.75	-28.72	32.03	54.00	-21.97	V

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.

*****END OF THE Appendix A1*****