

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\

Method File : VL120320AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 04 03:46:13 2020

Last Update : Fri Dec 04 03:46:13 2020

Response Via : Initial Calibration

Calibration Files

0.03=VL036051.D 0.1 =VL036050.D 0.5 =VL036049.D 1 =VL036048.D 2 =VL036047.D 10 =VL036046.D 15 =VL036052.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			2.203	1.801	1.628	1.761	1.310	1.741	18.52
3)	Chlorodifluoro...			1.272	1.206	1.230	1.105	1.085	1.180	6.88
4)	Chloromethane			0.623	0.587	0.610	0.540	0.528	0.577	7.27
5) T	Vinyl Chloride	0.781	0.830	0.685	0.733	0.721	0.691	0.690	0.733	7.43
6) T	Bromomethane			0.605	0.552	0.599	0.567	0.562	0.577	4.07
7)	Chloroethane			0.276	0.255	0.280	0.256	0.251	0.263	5.05
8) T	Dichlorotetra...			2.151	2.142	2.138	2.002	1.830	2.053	6.77
9) T	Propene			0.407	0.396	0.429	0.411	0.418	0.412	3.06
10) T	Heptane			0.894	1.048	1.203	1.237	1.239	1.124	13.41
11) T	Trichlorofluor...			2.543	2.382	2.432	2.273	2.167	2.359	6.14
12) T	1,1,2-Trichlor...			1.880	1.804	1.816	1.712	1.663	1.775	4.90
13)	Ethanol			0.106	0.083	0.102	0.069	0.057	0.083	25.20
14) T	Bromoethene			0.723	0.679	0.746	0.722	0.726	0.719	3.38
15) T	Acetone			1.012	1.187	1.141	0.931	0.925	1.039	11.58
16) T	1,3-Butadiene			0.455	0.450	0.486	0.447	0.445	0.457	3.67
17)	tert-Butyl alc...			1.388	1.220	0.966	1.158	0.961	1.139	15.86
18) T	1,1-Dichloroet...			0.821	0.775	0.800	0.773	0.768	0.787	2.86
19) T	Isopropyl Alcohol			0.715	0.607	0.509	0.511	0.445	0.557	18.87
20) T	Methylene Chlo...			1.215	1.008	0.979	0.648	0.644	0.899	27.61
21) T	Allyl Chloride			0.572	0.517	0.546	0.567	0.566	0.554	4.06
22) T	trans-1,2-Dich...			0.784	0.754	0.785	0.796	0.789	0.782	2.04
23) T	Vinyl Acetate			1.254	1.022	1.239	1.287	1.332	1.227	9.78
24) T	1,1-Dichloroet...			1.473	1.440	1.436	1.345	1.312	1.401	4.92
25) T	Ethyl Acetate			2.083	2.090	2.193	2.057	2.025	2.089	3.03
26) T	Hexane			1.055	1.110	1.220	1.085	1.077	1.109	5.83
27) T	Carbon Disulfide			1.433	1.513	1.653	1.748	1.732	1.616	8.55
28) T	Methyl tert-Bu...			1.502	1.627	1.771	1.684	1.684	1.654	5.99
29) T	Chloroform			2.155	2.062	2.166	2.072	2.026	2.096	2.92
30) T	Cyclohexane			1.054	0.925	1.040	1.101	1.116	1.047	7.22
31) T	cis-1,2-Dichlo...			0.912	0.950	1.040	1.070	1.106	1.015	8.06
32) T	1,1,1-Trichlor...	1.979	1.971	1.838	1.854	1.918	1.944	1.948	1.922	2.88
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.341	0.316	0.352	0.352	0.352	0.343	4.62
35) T	Carbon Tetrach...	0.500	0.539	0.501	0.494	0.532	0.547	0.545	0.523	4.43
36) T	Benzene			0.601	0.650	0.739	0.720	0.710	0.684	8.31
37) T	1,2-Dichloroet...			0.351	0.338	0.366	0.359	0.358	0.355	2.98
38) T	Trichloroethene	0.328	0.270	0.272	0.289	0.320	0.334	0.330	0.306	9.25
39) T	1,2-Dichloropr...			0.261	0.259	0.274	0.258	0.259	0.262	2.58

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40)	T	1,4-Dioxane			0.094	0.082	0.077	0.096	0.088	0.087	9.23
41)	T	Tetrahydrofuran			0.139	0.158	0.193	0.200	0.205	0.179	16.24
42)	T	Bromodichlorom...			0.503	0.529	0.576	0.594	0.604	0.561	7.71
43)		Methyl Methacr...			0.168	0.211	0.266	0.295	0.306	0.249	23.45
44)	T	2,2,4-Trimethy...			0.885	1.025	1.131	1.042	0.987	1.014	8.83
45)	T	t-1,3-Dichloro...			0.156	0.167	0.222	0.305	0.327	0.236	33.24
46)	T	cis-1,3-Dichlo...			0.225	0.251	0.314	0.387	0.402	0.316	25.04
47)	T	1,1,2-Trichlor...			0.313	0.324	0.334	0.337	0.334	0.328	2.97
48)	T	Dibromochlorom...			0.370	0.403	0.470	0.530	0.538	0.462	16.19
49)	T	Bromoform			0.254	0.270	0.342	0.415	0.433	0.343	23.69
50)	T	4-Methyl-2-Pen...			0.417	0.486	0.564	0.574	0.564	0.521	13.03
51)	T	2-Hexanone			0.259	0.316	0.394	0.455	0.461	0.377	23.39
52)	T	Tetrachloroethene	0.252	0.259	0.235	0.249	0.273	0.291	0.298	0.265	8.71
53)	T	Toluene			0.515	0.656	0.821	0.873	0.858	0.745	20.78
54)	T	1,2-Dibromoethane			0.418	0.429	0.479	0.500	0.503	0.466	8.61
55)	I	Chlorobenzene-d5	-----ISTD-----								
56)		1,1,1,2-Tetrac...			0.393	0.395	0.417	0.433	0.405	0.408	4.10
57)	T	Chlorobenzene			0.770	0.755	0.760	0.731	0.673	0.738	5.28
58)	T	Ethyl Benzene			0.721	0.892	1.101	1.169	1.063	0.989	18.32
59)	T	m/p-Xylene			0.726	0.875	0.991	1.009	0.908	0.902	12.52
60)	T	o-Xylene			0.777	0.892	0.996	0.989	0.897	0.910	9.80
61)	T	Styrene			0.297	0.402	0.549	0.682	0.647	0.515	31.67
62)		Isopropylbenzene			1.209	1.344	1.487	1.438	1.276	1.351	8.45
63)	T	1,1,2,2-Tetrac...	0.866	0.852	0.787	0.738	0.746	0.706	0.645	0.763	10.33
64)		n-propylbenzene			0.269	0.338	0.379	0.408	0.384	0.356	15.34
65)		tert-Butylbenzene			0.881	1.117	1.303	1.244	1.117	1.132	14.35
66)	T	Benzyl Chloride			0.195	0.186	0.265	0.355	0.363	0.273	30.97
67)		sec-Butylbenzene			1.216	1.575	1.796	1.682	1.465	1.547	14.36
68)	S	1-Bromo-4-Fluo...	0.747	0.757	0.773	0.759	0.744	0.799	0.770	0.764	2.45
69)		p-Isopropyltol...			0.833	1.110	1.350	1.344	1.203	1.168	18.22
70)		n-Butylbenzene			0.814	1.105	1.345	1.323	1.195	1.156	18.56
71)		2-Chlorotoluene			0.727	0.867	1.024	1.058	0.970	0.929	14.43
72)	T	4-Ethyltoluene			0.652	0.860	1.044	1.111	1.018	0.937	19.64
73)	T	1,3,5-Trimethy...			0.671	0.798	0.970	1.017	0.934	0.878	16.12
74)	T	1,2,4-Trimethy...			0.790	0.981	1.096	1.067	0.964	0.980	12.25
75)	T	1,3-Dichlorobe...			0.563	0.576	0.623	0.617	0.582	0.592	4.50
76)	T	1,4-Dichlorobe...			0.528	0.497	0.613	0.594	0.566	0.560	8.46
77)	T	1,2-Dichlorobe...			0.510	0.533	0.563	0.567	0.543	0.543	4.24
78)	T	Hexachloro-1,3...			0.282	0.287	0.310	0.305	0.308	0.299	4.37
79)	T	Naphthalene			0.225	0.306	0.422	0.653	0.679	0.457	44.49
80)	T	Naphthalene,2-...			0.019	0.021	0.027	0.172	0.224	0.093	105.95
81)	T	1,2,4-Trichlor...			0.218	0.244	0.325	0.385	0.398	0.314	25.85

 (#) = Out of Range