

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111723\
 Data File : VL040900.D
 Acq On : 17 Nov 2023 18:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/20/2023
 Supervised By : Mahesh Dadoda 11/21/2023

Quant Time: Nov 20 04:00:48 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Mon Nov 20 03:50:24 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.218	49	923044	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2191854	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2291125m	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 1731048 9.650 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.771	85	1900082	10.154	ppbv	99
3) Chlorodifluoromethane	2.716	51	1471994	9.988	ppbv	100
4) Chloromethane	2.854	50	524591	9.899	ppbv	97
5) Vinyl Chloride	2.960	62	541405	10.272	ppbv	100
6) Bromomethane	3.157	94	210659	10.471	ppbv	97
7) Chloroethane	3.234	64	191026	10.467	ppbv #	89
8) Dichlorotetrafluoroethane	2.896	85	1372709	10.160	ppbv	98
9) Propene	2.735	41	475716	9.578	ppbv	100
10) Heptane	7.597	43	1230728	10.073	ppbv	99
11) Trichlorofluoromethane	3.597	101	1463215	10.177	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.095	101	999045	9.781	ppbv	98
13) Ethanol	3.276	45	91267	9.464	ppbv #	100
14) Bromoethene	3.401	108	424435	10.331	ppbv	98
15) Acetone	3.501	43	1002678	10.199	ppbv	99
16) 1,3-Butadiene	3.025	39	550163	11.062	ppbv	98
17) tert-Butyl alcohol	3.909	59	865941	10.300	ppbv	99
18) 1,1-Dichloroethene	3.912	96	443791	9.748	ppbv	97
19) Isopropyl Alcohol	3.610	45	630470	10.657	ppbv #	99
20) Methylene Chloride	3.964	84	378152	9.321	ppbv	98
21) Allyl Chloride	4.028	41	645997	10.268	ppbv	99
22) trans-1,2-Dichloroethene	4.472	96	560010	10.839	ppbv	97
23) Vinyl Acetate	4.655	43	1399290	11.023	ppbv	99
24) 1,1-Dichloroethane	4.591	63	1199316	10.600	ppbv	98
25) Ethyl Acetate	5.230	43	2102818	10.331	ppbv	100
26) Hexane	5.237	57	901994	10.012	ppbv	98
27) Carbon Disulfide	4.157	76	1128631	9.879	ppbv	99
28) Methyl tert-Butyl Ether	4.613	73	816399	10.020	ppbv	98
29) Chloroform	5.301	83	1544015	10.112	ppbv	99
30) Cyclohexane	6.623	84	723196	9.331	ppbv	94
31) cis-1,2-Dichloroethene	5.105	61	945186	10.602	ppbv	98
32) 1,1,1-Trichloroethane	6.025	97	1519044	10.663	ppbv	100
34) 2-Butanone	4.812	43	1313506	11.763	ppbv	98
35) Carbon Tetrachloride	6.513	117	1619761	12.045	ppbv	98
36) Benzene	6.394	78	1860409	10.458	ppbv	99
37) 1,2-Dichloroethane	5.828	62	1197171	11.411	ppbv	99
38) Trichloroethene	7.311	130	714160	10.328	ppbv	93
39) 1,2-Dichloropropane	7.092	63	731212	10.367	ppbv	97
40) 1,4-Dioxane	7.304	88	296255	10.586	ppbv #	98
41) Tetrahydrofuran	5.578	42	776923	11.301	ppbv	98
42) Bromodichloromethane	7.269	83	1715366	11.425	ppbv	98
43) Methyl Methacrylate	7.491	69	781220	11.524	ppbv	97
44) 2,2,4-Trimethylpentane	7.343	57	3168850	10.724	ppbv	99
45) t-1,3-Dichloropropene	8.725	75	500285	12.559	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon Nov 20 03:50:24 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.156	75	621966	12.042	ppbv	95
47) 1,1,2-Trichloroethane	8.912	97	786702	10.644	ppbv	98
48) Dibromochloromethane	9.725	129	1378699	11.242	ppbv	99
49) Bromoform	12.417	173	1128749	12.237	ppbv	99
50) 4-Methyl-2-Pentanone	8.195	43	2034729	11.775	ppbv	99
51) 2-Hexanone	9.561	43	1443921	11.854	ppbv #	99
52) Tetrachloroethene	10.626	164	621993	10.383	ppbv	96
53) Toluene	9.233	91	2129493	10.878	ppbv	99
54) 1,2-Dibromoethane	10.021	107	1083793	11.395	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.520	131	998178	10.180	ppbv	97
57) Chlorobenzene	11.536	112	1627006	9.581	ppbv	98
58) Ethyl Benzene	12.098	91	2939968	9.835	ppbv	96
59) m/p-Xylene	12.378	91	5024732m	19.739	ppbv	
60) o-Xylene	13.066	91	2400178	9.904	ppbv	97
61) Styrene	12.905	104	1191737	10.197	ppbv	99
62) Isopropylbenzene	14.037	105	3485704	9.736	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.053	83	1743222	10.149	ppbv	99
64) n-propylbenzene	14.921	120	876768	9.771	ppbv	93
65) tert-Butylbenzene	16.095	119	2973391	9.849	ppbv	97
66) Benzyl Chloride	16.333	91	134368	12.079	ppbv #	96
67) sec-Butylbenzene	16.642	105	4257609	9.873	ppbv	99
69) p-Isopropyltoluene	17.002	119	3374414	9.813	ppbv	98
70) n-Butylbenzene	17.892	91	3660025	10.080	ppbv	98
71) 2-Chlorotoluene	14.809	91	2716100	9.952	ppbv	99
72) 4-Ethyltoluene	15.198	105	2730301	10.249	ppbv	98
73) 1,3,5-Trimethylbenzene	15.359	105	2340887	9.936	ppbv	99
74) 1,2,4-Trimethylbenzene	16.114	105	2573286	9.787	ppbv	98
75) 1,3-Dichlorobenzene	16.336	146	1439408	9.915	ppbv	100
76) 1,4-Dichlorobenzene	16.481	146	1427316	10.269	ppbv	100
77) 1,2-Dichlorobenzene	17.146	146	1385431	9.815	ppbv	99
78) Hexachloro-1,3-Butadiene	22.635	225	776283	8.783	ppbv	100
79) Naphthalene	21.391	128	1691529	12.517	ppbv	98
80) Naphthalene,2-methyl-	24.381	142	322741	13.530	ppbv	96
81) 1,2,4-Trichlorobenzene	21.146	180	858020	10.444	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

