

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
 Data File : VL039918.D
 Acq On : 21 Nov 2022 21:30
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/22/2022
 Supervised By : Mahesh Dadoda 11/24/2022

Quant Time: Nov 22 03:51:22 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

QLast Update : Tue Nov 22 03:45:31 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	1095278	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.632	114	3074303	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	3059621	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.764 95 2248662 9.622 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	1631942	10.404	ppbv	96
3) Chlorodifluoromethane	2.652	51	1381431	9.140	ppbv	97
4) Chloromethane	2.790	50	874059	9.050	ppbv	97
5) Vinyl Chloride	2.896	62	750460	9.944	ppbv	99
6) Bromomethane	3.095	94	270599	10.512	ppbv	98
7) Chloroethane	3.172	64	279223	9.360	ppbv	97
8) Dichlorotetrafluoroethane	2.832	85	1786939	9.976	ppbv	100
9) Propene	2.671	41	629709	8.845	ppbv	98
10) Heptane	7.558	43	1563112	9.099	ppbv	99
11) Trichlorofluoromethane	3.539	101	1872327	9.786	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.044	101	1387052	9.578	ppbv	98
13) Ethanol	3.221	45	45697m	8.407	ppbv	
14) Bromoethene	3.343	108	570267	10.098	ppbv	99
15) Acetone	3.443	43	1478367	10.176	ppbv	98
16) 1,3-Butadiene	2.960	39	700066	9.669	ppbv	99
17) tert-Butyl alcohol	3.851	59	1533673	9.182	ppbv	99
18) 1,1-Dichloroethene	3.857	96	637024	9.644	ppbv	94
19) Isopropyl Alcohol	3.552	45	726359	9.234	ppbv #	32
20) Methylene Chloride	3.909	84	527067	7.488	ppbv	98
21) Allyl Chloride	3.973	41	933267	9.261	ppbv	99
22) trans-1,2-Dichloroethene	4.423	96	655677	9.761	ppbv	98
23) Vinyl Acetate	4.600	43	602173	10.090	ppbv	98
24) 1,1-Dichloroethane	4.539	63	1356637	9.427	ppbv	99
25) Ethyl Acetate	5.182	43	2735007	10.254	ppbv	100
26) Hexane	5.188	57	1173849	10.074	ppbv	99
27) Carbon Disulfide	4.098	76	1504337	10.226	ppbv	99
28) Methyl tert-Butyl Ether	4.565	73	1316348	9.023	ppbv	100
29) Chloroform	5.253	83	1916433	12.376	ppbv	100
30) Cyclohexane	6.581	84	1039955	9.095	ppbv	98
31) cis-1,2-Dichloroethene	5.053	61	1047283	9.728	ppbv	99
32) 1,1,1-Trichloroethane	5.979	97	1968913	10.181	ppbv	98
34) 2-Butanone	4.761	43	1500853	10.203	ppbv	98
35) Carbon Tetrachloride	6.471	117	2026742	11.608	ppbv	98
36) Benzene	6.346	78	2615179	10.008	ppbv	98
37) 1,2-Dichloroethane	5.783	62	1516575	10.590	ppbv	99
38) Trichloroethene	7.269	130	1481920	10.145	ppbv	98
39) 1,2-Dichloropropane	7.053	63	1004052	9.862	ppbv	98
40) 1,4-Dioxane	7.266	88	374156	9.225	ppbv	90
41) Tetrahydrofuran	5.532	42	1028559	10.128	ppbv	99
42) Bromodichloromethane	7.230	83	2154608	11.094	ppbv	99
43) Methyl Methacrylate	7.455	69	1057911	10.326	ppbv	99
44) 2,2,4-Trimethylpentane	7.304	57	4200710	9.629	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	1053462	11.130	ppbv	100

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.124	75	1400588	10.681	ppbv	98
47) 1,1,2-Trichloroethane	8.880	97	1069512	10.221	ppbv	98
48) Dibromochloromethane	9.693	129	1820995	11.882	ppbv	100
49) Bromoform	12.394	173	1469901	11.849	ppbv	100
50) 4-Methyl-2-Pentanone	8.163	43	2651651	10.065	ppbv	99
51) 2-Hexanone	9.532	43	2108561	10.310	ppbv #	99
52) Tetrachloroethene	10.600	164	928359	9.497	ppbv	96
53) Toluene	9.204	91	2992549	10.053	ppbv	100
54) 1,2-Dibromoethane	9.992	107	1262099	11.303	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.490	131	1297385	10.373	ppbv	96
57) Chlorobenzene	11.513	112	2321872	9.925	ppbv	96
58) Ethyl Benzene	12.076	91	4075166	9.818	ppbv	100
59) m/p-Xylene	12.355	91	6808543m	19.598	ppbv	
60) o-Xylene	13.047	91	3264848	9.854	ppbv	99
61) Styrene	12.883	104	2015527	10.192	ppbv	100
62) Isopropylbenzene	14.018	105	4689925	9.816	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.034	83	1121634	10.139	ppbv	100
64) n-propylbenzene	14.905	120	1242586	9.942	ppbv	93
65) tert-Butylbenzene	16.082	119	4161827	9.958	ppbv	99
66) Benzyl Chloride	16.323	91	344745	9.625	ppbv	99
67) sec-Butylbenzene	16.625	105	5780878	10.059	ppbv	98
69) p-Isopropyltoluene	16.989	119	4802599	10.145	ppbv	100
70) n-Butylbenzene	17.879	91	4928374	10.501	ppbv	99
71) 2-Chlorotoluene	14.789	91	3607473	9.962	ppbv	99
72) 4-Ethyltoluene	15.182	105	3873502	10.401	ppbv	99
73) 1,3,5-Trimethylbenzene	15.339	105	3433517	10.072	ppbv	100
74) 1,2,4-Trimethylbenzene	16.098	105	3684283	10.208	ppbv #	93
75) 1,3-Dichlorobenzene	16.323	146	2097850	10.331	ppbv	99
76) 1,4-Dichlorobenzene	16.465	146	2074921	10.307	ppbv	99
77) 1,2-Dichlorobenzene	17.133	146	2007817	10.256	ppbv	99
78) Hexachloro-1,3-Butadiene	22.631	225	1394454	10.265	ppbv	100
79) Naphthalene	21.381	128	2864279	13.260	ppbv	98
80) Naphthalene,2-methyl-	24.371	142	1068784	17.592	ppbv	93
81) 1,2,4-Trichlorobenzene	21.136	180	1521494	11.406	ppbv	99

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

