

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122223\
 Data File : VL040952.D
 Acq On : 22 Dec 2023 9:26
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/26/2023
 Supervised By : Mahesh Dadoda 12/26/2023

Quant Time: Dec 23 01:18:20 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Fri Dec 22 23:57:16 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1159329	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3015591	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	3113615m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.738 95 2064253 9.001 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 90.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.771	85	2153358	9.751	ppbv	100
3) Chlorodifluoromethane	2.716	51	1721146	9.865	ppbv	99
4) Chloromethane	2.854	50	639038	9.934	ppbv	95
5) Vinyl Chloride	2.957	62	674081	10.856	ppbv	98
6) Bromomethane	3.153	94	279435	10.144	ppbv	98
7) Chloroethane	3.227	64	225583	10.190	ppbv	97
8) Dichlorotetrafluoroethane	2.896	85	1632126	10.258	ppbv	100
9) Propene	2.735	41	604340	10.499	ppbv	99
10) Heptane	7.565	43	1501032	10.490	ppbv	99
11) Trichlorofluoromethane	3.587	101	1764630	10.221	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.083	101	1272001	9.488	ppbv	97
13) Ethanol	3.269	45	136811	9.421	ppbv	96
14) Bromoethene	3.394	108	522098	10.625	ppbv	98
15) Acetone	3.494	43	1223874	8.802	ppbv	100
16) 1,3-Butadiene	3.022	39	647583	10.817	ppbv	97
17) tert-Butyl alcohol	3.899	59	1038074	10.092	ppbv	99
18) 1,1-Dichloroethene	3.899	96	559599	10.110	ppbv	96
19) Isopropyl Alcohol	3.600	45	772209	10.643	ppbv #	98
20) Methylene Chloride	3.951	84	465583	9.394	ppbv	98
21) Allyl Chloride	4.015	41	864478	10.518	ppbv	100
22) trans-1,2-Dichloroethene	4.456	96	635980	10.076	ppbv	98
23) Vinyl Acetate	4.636	43	1792224	11.684	ppbv	99
24) 1,1-Dichloroethane	4.575	63	1428646	10.412	ppbv	99
25) Ethyl Acetate	5.205	43	2545876	10.567	ppbv	100
26) Hexane	5.214	57	1105742	10.356	ppbv	99
27) Carbon Disulfide	4.140	76	1403340	9.711	ppbv	98
28) Methyl tert-Butyl Ether	4.597	73	1056550	10.663	ppbv	100
29) Chloroform	5.275	83	1775556	9.854	ppbv	99
30) Cyclohexane	6.594	84	954242	10.720	ppbv	98
31) cis-1,2-Dichloroethene	5.083	61	1142784	10.419	ppbv	99
32) 1,1,1-Trichloroethane	5.999	97	1784026	10.241	ppbv	100
34) 2-Butanone	4.793	43	1601442	10.039	ppbv	99
35) Carbon Tetrachloride	6.484	117	1898158	10.051	ppbv	98
36) Benzene	6.362	78	2370898	10.057	ppbv	98
37) 1,2-Dichloroethane	5.803	62	1372011	9.713	ppbv	99
38) Trichloroethene	7.279	130	919893	10.390	ppbv	97
39) 1,2-Dichloropropane	7.060	63	919205	9.923	ppbv	99
40) 1,4-Dioxane	7.266	88	371438	9.496	ppbv	99
41) Tetrahydrofuran	5.552	42	995569	10.258	ppbv	99
42) Bromodichloromethane	7.234	83	1991007	9.773	ppbv	99
43) Methyl Methacrylate	7.455	69	971578	10.507	ppbv	99
44) 2,2,4-Trimethylpentane	7.311	57	3873085	9.672	ppbv	99
45) t-1,3-Dichloropropene	8.687	75	775927	11.310	ppbv	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.124	75	923878	10.877	ppbv	99
47) 1,1,2-Trichloroethane	8.877	97	991302	10.088	ppbv	98
48) Dibromochloromethane	9.687	129	1752015	10.445	ppbv	99
49) Bromoform	12.375	173	1388490	10.728	ppbv	99
50) 4-Methyl-2-Pentanone	8.160	43	2468456	10.217	ppbv	99
51) 2-Hexanone	9.523	43	1814674	10.435	ppbv #	100
52) Tetrachloroethene	10.587	164	848205	10.681	ppbv	98
53) Toluene	9.195	91	2714341	10.384	ppbv	99
54) 1,2-Dibromoethane	9.983	107	1463567	10.853	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.475	131	1255486	9.221	ppbv	99
57) Chlorobenzene	11.497	112	2140038	9.333	ppbv	99
58) Ethyl Benzene	12.057	91	3667318	9.170	ppbv	100
59) m/p-Xylene	12.336	91	6153402m	18.089	ppbv	
60) o-Xylene	13.024	91	2905087	9.064	ppbv	98
61) Styrene	12.864	104	1593905	10.461	ppbv	98
62) Isopropylbenzene	13.992	105	4388125	9.232	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.015	83	2126095	9.208	ppbv	100
64) n-propylbenzene	14.880	120	1172444	9.834	ppbv	92
65) tert-Butylbenzene	16.053	119	3845357	9.518	ppbv	97
66) Benzyl Chloride	16.288	91	318610m	11.524	ppbv	
67) sec-Butylbenzene	16.600	105	5407463	9.210	ppbv	99
69) p-Isopropyltoluene	16.960	119	4428181	9.703	ppbv	99
70) n-Butylbenzene	17.851	91	4533101	9.568	ppbv	100
71) 2-Chlorotoluene	14.764	91	3336157	9.114	ppbv	98
72) 4-Ethyltoluene	15.156	105	3501049	9.953	ppbv	99
73) 1,3,5-Trimethylbenzene	15.317	105	2961627	9.754	ppbv	99
74) 1,2,4-Trimethylbenzene	16.072	105	3242783	9.597	ppbv	95
75) 1,3-Dichlorobenzene	16.294	146	1892432	9.805	ppbv	99
76) 1,4-Dichlorobenzene	16.436	146	1862702	9.865	ppbv	99
77) 1,2-Dichlorobenzene	17.108	146	1838260	9.886	ppbv	98
78) Hexachloro-1,3-Butadiene	22.590	225	981296	8.580	ppbv	100
79) Naphthalene	21.339	128	2130809m	13.088	ppbv	
80) Naphthalene,2-methyl-	24.345	142	320199	10.760	ppbv	93
81) 1,2,4-Trichlorobenzene	21.101	180	1052007	11.255	ppbv	100

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

