

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071423\
 Data File : VL040528.D
 Acq On : 14 Jul 2023 15:09
 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 07/17/2023
 Supervised By :Mahesh Dadoda 07/17/2023

Quant Time: Jul 16 23:28:30 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

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

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1029098	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2567001	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2575225m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.783 95 2035345 9.986 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.738	85	2018354	9.805	ppbv	98
3) Chlorodifluoromethane	2.684	51	1561620	9.574	ppbv	96
4) Chloromethane	2.822	50	619268	9.583	ppbv	94
5) Vinyl Chloride	2.928	62	654094	9.640	ppbv	99
6) Bromomethane	3.128	94	297194	10.377	ppbv	94
7) Chloroethane	3.205	64	233612	9.813	ppbv	95
8) Dichlorotetrafluoroethane	2.867	85	1678535	9.911	ppbv	100
9) Propene	2.703	41	480235	8.600	ppbv	99
10) Heptane	7.584	43	1241116	10.065	ppbv	99
11) Trichlorofluoromethane	3.568	101	1691664	10.185	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.073	101	1159032	9.908	ppbv	97
13) Ethanol	3.250	45	98436m	8.102	ppbv	
14) Bromoethene	3.372	108	527110	10.480	ppbv	98
15) Acetone	3.472	43	1149185	9.701	ppbv	99
16) 1,3-Butadiene	2.992	39	588798	9.852	ppbv	99
17) tert-Butyl alcohol	3.883	59	1136535	9.276	ppbv	100
18) 1,1-Dichloroethene	3.886	96	555001	10.320	ppbv	95
19) Isopropyl Alcohol	3.581	45	617837	9.085	ppbv #	95
20) Methylene Chloride	3.938	84	459848	9.126	ppbv	97
21) Allyl Chloride	4.002	41	647753	9.575	ppbv	94
22) trans-1,2-Dichloroethene	4.449	96	547504	10.319	ppbv	96
23) Vinyl Acetate	4.632	43	1187478	10.522	ppbv	99
24) 1,1-Dichloroethane	4.571	63	1139229	9.945	ppbv	100
25) Ethyl Acetate	5.208	43	2205825	9.781	ppbv	99
26) Hexane	5.217	57	987810	9.428	ppbv	98
27) Carbon Disulfide	4.131	76	1334576	10.829	ppbv	100
28) Methyl tert-Butyl Ether	4.590	73	816352	9.679	ppbv	99
29) Chloroform	5.282	83	1724097	9.922	ppbv	99
30) Cyclohexane	6.610	84	826686	9.483	ppbv	98
31) cis-1,2-Dichloroethene	5.086	61	1033766	9.982	ppbv	97
32) 1,1,1-Trichloroethane	6.008	97	1743508	10.254	ppbv	99
34) 2-Butanone	4.790	43	1362809	10.744	ppbv	98
35) Carbon Tetrachloride	6.500	117	1784329	11.550	ppbv	97
36) Benzene	6.375	78	2068296	10.014	ppbv	97
37) 1,2-Dichloroethane	5.812	62	1343679	11.058	ppbv	98
38) Trichloroethene	7.298	130	835394	10.693	ppbv	95
39) 1,2-Dichloropropane	7.079	63	804090	10.113	ppbv	96
40) 1,4-Dioxane	7.295	88	223013	8.967	ppbv #	88
41) Tetrahydrofuran	5.565	42	763651	10.317	ppbv	98
42) Bromodichloromethane	7.256	83	1878517	11.116	ppbv	99
43) Methyl Methacrylate	7.481	69	866271	11.205	ppbv	98
44) 2,2,4-Trimethylpentane	7.333	57	3388132	10.195	ppbv	98
45) t-1,3-Dichloropropene	8.716	75	610941	12.319	ppbv	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	732647	11.514	ppbv	92
47) 1,1,2-Trichloroethane	8.905	97	889990	10.145	ppbv	98
48) Dibromochloromethane	9.716	129	1549702	11.425	ppbv	100
49) Bromoform	12.413	173	1276676	11.873	ppbv	100
50) 4-Methyl-2-Pentanone	8.185	43	2041012	11.074	ppbv	98
51) 2-Hexanone	9.555	43	1530846	11.746	ppbv	97
52) Tetrachloroethene	10.622	164	726590	10.863	ppbv	95
53) Toluene	9.230	91	2404722	10.718	ppbv	99
54) 1,2-Dibromoethane	10.018	107	1214646	11.139	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.516	131	1154160	10.007	ppbv	97
57) Chlorobenzene	11.536	112	1897582	9.449	ppbv #	94
58) Ethyl Benzene	12.098	91	3343554	10.346	ppbv	96
59) m/p-Xylene	12.381	91	5888223m	20.414	ppbv	
60) o-Xylene	13.066	91	2848093	10.365	ppbv	99
61) Styrene	12.902	104	1415995	11.172	ppbv	97
62) Isopropylbenzene	14.037	105	4136774	10.044	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.053	83	2016568	10.479	ppbv	100
64) n-propylbenzene	14.924	120	1086414	10.196	ppbv	94
65) tert-Butylbenzene	16.098	119	3708035	10.170	ppbv	96
66) Benzyl Chloride	16.336	91	283303	10.984	ppbv	99
67) sec-Butylbenzene	16.645	105	5405893	10.091	ppbv	98
69) p-Isopropyltoluene	17.002	119	4493460	10.150	ppbv	98
70) n-Butylbenzene	17.892	91	5094395	10.319	ppbv	99
71) 2-Chlorotoluene	14.809	91	3300978	10.400	ppbv	98
72) 4-Ethyltoluene	15.201	105	3415970	10.605	ppbv	98
73) 1,3,5-Trimethylbenzene	15.359	105	2976598	10.484	ppbv	98
74) 1,2,4-Trimethylbenzene	16.114	105	3404485	10.285	ppbv	98
75) 1,3-Dichlorobenzene	16.339	146	1983987	9.885	ppbv	99
76) 1,4-Dichlorobenzene	16.481	146	1977860	10.050	ppbv	98
77) 1,2-Dichlorobenzene	17.153	146	1910978	9.958	ppbv	99
78) Hexachloro-1,3-Butadiene	22.641	225	1640374	9.102	ppbv	99
79) Naphthalene	21.390	128	3425068	12.229	ppbv	98
80) Naphthalene,2-methyl-	24.374	142	1452032	12.573	ppbv	97
81) 1,2,4-Trichlorobenzene	21.149	180	2026876	10.501	ppbv	99

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

