

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040923.D
 Acq On : 21 Dec 2023 9:00
 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 12/23/2023
 Supervised By : Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:03:42 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 : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1216336	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3070256	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	3086035m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.744 95 2144289 9.433 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.745	85	2171316	9.372	ppbv	99
3) Chlorodifluoromethane	2.690	51	1709510	9.340	ppbv	100
4) Chloromethane	2.825	50	646520	9.579	ppbv	93
5) Vinyl Chloride	2.931	62	656735	10.081	ppbv	99
6) Bromomethane	3.128	94	289792	10.027	ppbv	100
7) Chloroethane	3.205	64	222812	9.593	ppbv	98
8) Dichlorotetrafluoroethane	2.870	85	1615530	9.678	ppbv	98
9) Propene	2.710	41	586935	9.718	ppbv	99
10) Heptane	7.558	43	1486892	9.904	ppbv	100
11) Trichlorofluoromethane	3.565	101	1738873	9.600	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.063	101	1283952	9.128	ppbv	99
13) Ethanol	3.250	45	116706	7.660	ppbv	92
14) Bromoethene	3.372	108	516862	10.026	ppbv	100
15) Acetone	3.472	43	1209752	8.293	ppbv	100
16) 1,3-Butadiene	2.996	39	633047	10.078	ppbv	99
17) tert-Butyl alcohol	3.880	59	1069665	9.912	ppbv	98
18) 1,1-Dichloroethene	3.880	96	566145	9.748	ppbv	96
19) Isopropyl Alcohol	3.578	45	744867	9.785	ppbv	100
20) Methylene Chloride	3.935	84	458893	8.825	ppbv	98
21) Allyl Chloride	3.996	41	833690	9.668	ppbv	98
22) trans-1,2-Dichloroethene	4.439	96	705549	10.654	ppbv	94
23) Vinyl Acetate	4.619	43	1795175	11.155	ppbv	99
24) 1,1-Dichloroethane	4.558	63	1417490	9.847	ppbv	100
25) Ethyl Acetate	5.192	43	2544547	10.067	ppbv	100
26) Hexane	5.205	57	1084690	9.683	ppbv	99
27) Carbon Disulfide	4.121	76	1466445	9.672	ppbv	98
28) Methyl tert-Butyl Ether	4.578	73	1065689	10.252	ppbv	100
29) Chloroform	5.262	83	1825547	9.657	ppbv	99
30) Cyclohexane	6.584	84	930506	9.963	ppbv	99
31) cis-1,2-Dichloroethene	5.070	61	1153904	10.027	ppbv	97
32) 1,1,1-Trichloroethane	5.986	97	1837415	10.053	ppbv	99
34) 2-Butanone	4.777	43	1588197	9.779	ppbv	100
35) Carbon Tetrachloride	6.478	117	1953926	10.162	ppbv	97
36) Benzene	6.356	78	2326347	9.693	ppbv	98
37) 1,2-Dichloroethane	5.793	62	1421024	9.881	ppbv	100
38) Trichloroethene	7.272	130	898653	9.969	ppbv	98
39) 1,2-Dichloropropane	7.053	63	914476	9.696	ppbv	97
40) 1,4-Dioxane	7.259	88	372421	9.352	ppbv	96
41) Tetrahydrofuran	5.542	42	982964	9.948	ppbv	98
42) Bromodichloromethane	7.227	83	2062380	9.943	ppbv	97
43) Methyl Methacrylate	7.452	69	969281	10.296	ppbv	98
44) 2,2,4-Trimethylpentane	7.307	57	3815928	9.360	ppbv	100
45) t-1,3-Dichloropropene	8.684	75	797614	11.420	ppbv	100

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	923295	10.677	ppbv	99
47) 1,1,2-Trichloroethane	8.873	97	973574	9.731	ppbv	97
48) Dibromochloromethane	9.680	129	1759798	10.304	ppbv	100
49) Bromoform	12.375	173	1395351	10.589	ppbv	99
50) 4-Methyl-2-Pentanone	8.156	43	2460300	10.002	ppbv	99
51) 2-Hexanone	9.523	43	1830765	10.341	ppbv	100
52) Tetrachloroethene	10.584	164	811920	10.042	ppbv	97
53) Toluene	9.192	91	2688873	10.103	ppbv	99
54) 1,2-Dibromoethane	9.979	107	1446004	10.532	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.478	131	1241097	9.197	ppbv	98
57) Chlorobenzene	11.497	112	2067448	9.097	ppbv	100
58) Ethyl Benzene	12.056	91	3633101	9.166	ppbv	99
59) m/p-Xylene	12.343	91	6105892m	18.110	ppbv	
60) o-Xylene	13.024	91	2896824	9.119	ppbv	100
61) Styrene	12.867	104	1547153	10.245	ppbv	99
62) Isopropylbenzene	13.995	105	4249639	9.021	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.011	83	2122090	9.273	ppbv	99
64) n-propylbenzene	14.883	120	1110658	9.399	ppbv	99
65) tert-Butylbenzene	16.056	119	3722167	9.295	ppbv	99
66) Benzyl Chloride	16.291	91	325374	11.874	ppbv	99
67) sec-Butylbenzene	16.600	105	5251867	9.025	ppbv	99
69) p-Isopropyltoluene	16.960	119	4270996	9.442	ppbv	100
70) n-Butylbenzene	17.850	91	4494140	9.570	ppbv	100
71) 2-Chlorotoluene	14.767	91	3324265	9.163	ppbv	99
72) 4-Ethyltoluene	15.159	105	3333468	9.561	ppbv	100
73) 1,3,5-Trimethylbenzene	15.317	105	2878026	9.564	ppbv	97
74) 1,2,4-Trimethylbenzene	16.072	105	3167613	9.458	ppbv	97
75) 1,3-Dichlorobenzene	16.294	146	1820535	9.517	ppbv	100
76) 1,4-Dichlorobenzene	16.439	146	1771357	9.465	ppbv	100
77) 1,2-Dichlorobenzene	17.108	146	1733194	9.404	ppbv	99
78) Hexachloro-1,3-Butadiene	22.593	225	957540	8.448	ppbv	100
79) Naphthalene	21.342	128	2084295m	12.917	ppbv	
80) Naphthalene,2-methyl-	24.349	142	349595	11.853	ppbv	96
81) 1,2,4-Trichlorobenzene	21.098	180	1039681	11.223	ppbv	99

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

