

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120222\
 Data File : VL039964.D
 Acq On : 2 Dec 2022 10:30
 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 12/05/2022
 Supervised By : Mahesh Dadoda 12/05/2022

Quant Time: Dec 02 23:17:40 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 : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.156	49	985096	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.619	114	3038630	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.433	117	3000571	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.741 95 2274901 9.926 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.697	85	1596156	11.314	ppbv	98
3) Chlorodifluoromethane	2.642	51	1175812	8.650	ppbv	97
4) Chloromethane	2.780	50	762010	8.772	ppbv	99
5) Vinyl Chloride	2.886	62	666204	9.815	ppbv	96
6) Bromomethane	3.086	94	214695	9.273	ppbv	98
7) Chloroethane	3.163	64	236103	8.800	ppbv	100
8) Dichlorotetrafluoroethane	2.825	85	1614790	10.024	ppbv	100
9) Propene	2.661	41	548630	8.568	ppbv	99
10) Heptane	7.545	43	1378010	8.919	ppbv	98
11) Trichlorofluoromethane	3.529	101	1666592	9.685	ppbv	97
12) 1,1,2-Trichlorotrifluoro...	4.031	101	1252695	9.618	ppbv	97
13) Ethanol	3.214	45	28896m	5.911	ppbv	
14) Bromoethene	3.330	108	486329	9.575	ppbv	96
15) Acetone	3.433	43	1110837	8.502	ppbv	100
16) 1,3-Butadiene	2.951	39	577790	8.873	ppbv	95
17) tert-Butyl alcohol	3.844	59	1254151	8.348	ppbv	100
18) 1,1-Dichloroethene	3.844	96	562237	9.463	ppbv	95
19) Isopropyl Alcohol	3.542	45	583901	8.254	ppbv #	32
20) Methylene Chloride	3.896	84	468774	7.405	ppbv	97
21) Allyl Chloride	3.960	41	807188	8.906	ppbv	100
22) trans-1,2-Dichloroethene	4.410	96	591343	9.788	ppbv	99
23) Vinyl Acetate	4.594	43	474608	8.842	ppbv #	98
24) 1,1-Dichloroethane	4.529	63	1185233	9.157	ppbv	100
25) Ethyl Acetate	5.169	43	2259736	9.420	ppbv	99
26) Hexane	5.176	57	1006757	9.607	ppbv	96
27) Carbon Disulfide	4.086	76	1393227	10.530	ppbv	99
28) Methyl tert-Butyl Ether	4.549	73	1151043	8.772	ppbv	97
29) Chloroform	5.237	83	1648056	11.834	ppbv	98
30) Cyclohexane	6.565	84	925142	8.996	ppbv	98
31) cis-1,2-Dichloroethene	5.041	61	931337	9.619	ppbv	97
32) 1,1,1-Trichloroethane	5.967	97	1689970	9.716	ppbv	99
34) 2-Butanone	4.751	43	1269051	8.728	ppbv	97
35) Carbon Tetrachloride	6.455	117	1746002	10.118	ppbv	96
36) Benzene	6.333	78	2340039	9.060	ppbv	99
37) 1,2-Dichloroethane	5.767	62	1282561	9.061	ppbv	99
38) Trichloroethene	7.256	130	1316747	9.120	ppbv	98
39) 1,2-Dichloropropane	7.034	63	873731	8.683	ppbv	99
40) 1,4-Dioxane	7.253	88	334935	8.355	ppbv	92
41) Tetrahydrofuran	5.520	42	860318	8.571	ppbv	97
42) Bromodichloromethane	7.211	83	1876972	9.778	ppbv	99
43) Methyl Methacrylate	7.439	69	911566	9.002	ppbv	99
44) 2,2,4-Trimethylpentane	7.291	57	3746199	8.688	ppbv	99
45) t-1,3-Dichloropropene	8.674	75	857284	9.163	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.108	75	1178338	9.092	ppbv	99
47) 1,1,2-Trichloroethane	8.864	97	944685	9.134	ppbv	98
48) Dibromochloromethane	9.677	129	1587697	10.481	ppbv	99
49) Bromoform	12.375	173	1250599	10.199	ppbv	99
50) 4-Methyl-2-Pentanone	8.147	43	2289735	8.793	ppbv	99
51) 2-Hexanone	9.516	43	1750701	8.660	ppbv	100
52) Tetrachloroethene	10.581	164	820024	8.487	ppbv	96
53) Toluene	9.185	91	2655632	9.026	ppbv	99
54) 1,2-Dibromoethane	9.973	107	1085687	9.837	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.474	131	1124355	9.167	ppbv	95
57) Chlorobenzene	11.490	112	2025320	8.828	ppbv	95
58) Ethyl Benzene	12.056	91	3533884	8.681	ppbv	99
59) m/p-Xylene	12.339	91	5910803m	17.349	ppbv	
60) o-Xylene	13.027	91	2817657	8.672	ppbv	99
61) Styrene	12.863	104	1717858	8.857	ppbv	99
62) Isopropylbenzene	13.995	105	4073500	8.694	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.011	83	955756	8.809	ppbv	99
64) n-propylbenzene	14.879	120	1055293m	8.610	ppbv	
65) tert-Butylbenzene	16.056	119	3481422	8.494	ppbv	99
66) Benzyl Chloride	16.294	91	227904m	6.488	ppbv	
67) sec-Butylbenzene	16.603	105	4811420	8.537	ppbv	98
69) p-Isopropyltoluene	16.966	119	3921491	8.447	ppbv	98
70) n-Butylbenzene	17.857	91	3904772	8.484	ppbv	98
71) 2-Chlorotoluene	14.770	91	2997955	8.442	ppbv	99
72) 4-Ethyltoluene	15.162	105	3224780	8.830	ppbv	99
73) 1,3,5-Trimethylbenzene	15.320	105	2852883	8.533	ppbv	99
74) 1,2,4-Trimethylbenzene	16.075	105	3031667	8.565	ppbv	93
75) 1,3-Dichlorobenzene	16.301	146	1695591	8.514	ppbv	99
76) 1,4-Dichlorobenzene	16.439	146	1643943	8.327	ppbv	99
77) 1,2-Dichlorobenzene	17.111	146	1582355	8.242	ppbv	99
78) Hexachloro-1,3-Butadiene	22.599	225	935260	7.021	ppbv	98
79) Naphthalene	21.349	128	1775435	8.381	ppbv	98
80) Naphthalene,2-methyl-	24.348	142	463001	7.771	ppbv	92
81) 1,2,4-Trichlorobenzene	21.107	180	1018916	7.789	ppbv	99

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

