

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039972.D
 Acq On : 12 Dec 2022 12:18
 Operator : SY/MD
 Sample : VL1212ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1212ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/14/2022
 Supervised By : Mahesh Dadoda 12/14/2022

Quant Time: Dec 13 06:08:40 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 23:21:36 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1193533	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	3286811	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.455	117	3198115	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.767 95 2624778 10.745 ppbv 0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	1686526	9.866	ppbv	96
3) Chlorodifluoromethane	2.655	51	1517494	9.214	ppbv	95
4) Chloromethane	2.793	50	948030	9.008	ppbv	96
5) Vinyl Chloride	2.899	62	802299	9.756	ppbv	100
6) Bromomethane	3.099	94	291907	10.406	ppbv	97
7) Chloroethane	3.176	64	302631	9.310	ppbv	98
8) Dichlorotetrafluoroethane	2.835	85	1995069	10.221	ppbv	99
9) Propene	2.674	41	655218	8.446	ppbv	99
10) Heptane	7.568	43	1636891	8.744	ppbv	99
11) Trichlorofluoromethane	3.542	101	2135405	10.242	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.047	101	1568835	9.942	ppbv	94
13) Ethanol	3.227	45	34041m	5.747	ppbv	
14) Bromoethene	3.346	108	639568	10.393	ppbv	99
15) Acetone	3.449	43	1467493	9.270	ppbv	99
16) 1,3-Butadiene	2.963	39	749353	9.498	ppbv	98
17) tert-Butyl alcohol	3.857	59	1641271	9.017	ppbv	99
18) 1,1-Dichloroethene	3.861	96	712784	9.902	ppbv	95
19) Isopropyl Alcohol	3.555	45	726039	8.470	ppbv #	32
20) Methylene Chloride	3.912	84	568924	7.418	ppbv	97
21) Allyl Chloride	3.976	41	1035425	9.429	ppbv	99
22) trans-1,2-Dichloroethene	4.426	96	737489	10.075	ppbv	96
23) Vinyl Acetate	4.607	43	598887	9.208	ppbv	99
24) 1,1-Dichloroethane	4.545	63	1492953	9.520	ppbv	99
25) Ethyl Acetate	5.185	43	2802187	9.641	ppbv	100
26) Hexane	5.195	57	1234671	9.724	ppbv	98
27) Carbon Disulfide	4.105	76	1827539	11.401	ppbv	99
28) Methyl tert-Butyl Ether	4.568	73	1396669	8.785	ppbv	99
29) Chloroform	5.256	83	2091491	12.395	ppbv	99
30) Cyclohexane	6.587	84	1089961	8.747	ppbv	97
31) cis-1,2-Dichloroethene	5.063	61	1143828	9.750	ppbv	96
32) 1,1,1-Trichloroethane	5.986	97	2204188	10.460	ppbv	99
34) 2-Butanone	4.767	43	1618097	10.289	ppbv	97
35) Carbon Tetrachloride	6.475	117	2315049	12.402	ppbv	99
36) Benzene	6.356	78	2754004	9.858	ppbv	98
37) 1,2-Dichloroethane	5.790	62	1651622	10.788	ppbv	99
38) Trichloroethene	7.275	130	1560075	9.989	ppbv	98
39) 1,2-Dichloropropane	7.057	63	1043829	9.590	ppbv	96
40) 1,4-Dioxane	7.272	88	391214	9.022	ppbv	87
41) Tetrahydrofuran	5.539	42	1029157	9.479	ppbv	98
42) Bromodichloromethane	7.233	83	2464985	11.872	ppbv	100
43) Methyl Methacrylate	7.462	69	1093962	9.987	ppbv	99
44) 2,2,4-Trimethylpentane	7.314	57	4476305	9.598	ppbv	99
45) t-1,3-Dichloropropene	8.700	75	1085541	10.727	ppbv	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.130	75	1454581	10.376	ppbv	99
47) 1,1,2-Trichloroethane	8.886	97	1120178	10.013	ppbv	98
48) Dibromochloromethane	9.696	129	2019642	12.326	ppbv	100
49) Bromoform	12.394	173	1572237	11.854	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	2761439	9.804	ppbv	98
51) 2-Hexanone	9.539	43	2138154	9.778	ppbv #	98
52) Tetrachloroethene	10.600	164	936034	8.956	ppbv	96
53) Toluene	9.208	91	3096979	9.731	ppbv	99
54) 1,2-Dibromoethane	9.999	107	1307604	10.953	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.500	131	1383975	10.587	ppbv	96
57) Chlorobenzene	11.516	112	2350204	9.611	ppbv	99
58) Ethyl Benzene	12.082	91	4207277	9.697	ppbv	96
59) m/p-Xylene	12.365	91	7092178m	19.530	ppbv	
60) o-Xylene	13.050	91	3387156	9.781	ppbv	96
61) Styrene	12.889	104	1978741	9.572	ppbv	99
62) Isopropylbenzene	14.021	105	4758895	9.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.037	83	1186926	10.264	ppbv	99
64) n-propylbenzene	14.908	120	1215891	9.307	ppbv	85
65) tert-Butylbenzene	16.085	119	4092294	9.367	ppbv	97
66) Benzyl Chloride	16.326	91	324943m	8.679	ppbv	
67) sec-Butylbenzene	16.629	105	5667639	9.435	ppbv	98
69) p-Isopropyltoluene	16.989	119	4566552	9.229	ppbv	99
70) n-Butylbenzene	17.879	91	4729527	9.641	ppbv	98
71) 2-Chlorotoluene	14.793	91	3661896	9.674	ppbv	97
72) 4-Ethyltoluene	15.188	105	3795006	9.749	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	3351790	9.406	ppbv	97
74) 1,2,4-Trimethylbenzene	16.101	105	3575513	9.478	ppbv	93
75) 1,3-Dichlorobenzene	16.323	146	1954592	9.209	ppbv	98
76) 1,4-Dichlorobenzene	16.465	146	1889796	8.981	ppbv	98
77) 1,2-Dichlorobenzene	17.137	146	1842210	9.002	ppbv	98
78) Hexachloro-1,3-Butadiene	22.625	225	1065234	7.502	ppbv	99
79) Naphthalene	21.378	128	2062291	9.134	ppbv	99
80) Naphthalene,2-methyl-	24.368	142	536598	8.450	ppbv #	95
81) 1,2,4-Trichlorobenzene	21.136	180	1176439	8.437	ppbv	99

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

