

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111822\
 Data File : VL039902.D
 Acq On : 18 Nov 2022 12:34
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/21/2022
 Supervised By : Mahesh Dadoda 11/21/2022

Quant Time: Nov 18 13:59:35 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 19 2022

QLast Update : Fri Nov 18 11:56:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1223454	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3762765	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	3668805	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 2741347 9.983 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	2072059	10.032	ppbv	97
3) Chlorodifluoromethane	2.658	51	2396942	16.434	ppbv	97
4) Chloromethane	2.796	50	1539688	16.954	ppbv	99
5) Vinyl Chloride	2.902	62	1332316	18.121	ppbv	98
6) Bromomethane	3.102	94	457756	17.453	ppbv	99
7) Chloroethane	3.179	64	501805	18.212	ppbv	98
8) Dichlorotetrafluoroethane	2.841	85	2785673	15.824	ppbv	99
9) Propene	2.674	41	1072147	14.108	ppbv	96
10) Heptane	7.574	43	2824281	15.514	ppbv	99
11) Trichlorofluoromethane	3.545	101	3211954	19.067	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.050	101	2437423	20.034	ppbv	97
13) Ethanol	3.224	45	78659m	14.645	ppbv	
14) Bromoethene	3.349	108	996378	18.289	ppbv	99
15) Acetone	3.452	43	2278788	15.302	ppbv	99
16) 1,3-Butadiene	2.967	39	1210523	17.479	ppbv	97
17) tert-Butyl alcohol	3.861	59	2679061	18.891	ppbv	100
18) 1,1-Dichloroethene	3.864	96	1108318	19.867	ppbv	98
19) Isopropyl Alcohol	3.558	45	1307710	17.742	ppbv	99
20) Methylene Chloride	3.918	84	921504	17.297	ppbv	97
21) Allyl Chloride	3.980	41	1741077	18.484	ppbv	99
22) trans-1,2-Dichloroethene	4.433	96	1161869	20.521	ppbv	98
23) Vinyl Acetate	4.613	43	1046314	17.636	ppbv	100
24) 1,1-Dichloroethane	4.552	63	2381451	19.652	ppbv	99
25) Ethyl Acetate	5.192	43	4349904	14.181	ppbv	99
26) Hexane	5.201	57	1874370	13.705	ppbv	100
27) Carbon Disulfide	4.111	76	2746222	19.122	ppbv	98
28) Methyl tert-Butyl Ether	4.571	73	2387550	19.286	ppbv	99
29) Chloroform	5.262	83	2789591	14.505	ppbv	99
30) Cyclohexane	6.594	84	1914462	16.739	ppbv	95
31) cis-1,2-Dichloroethene	5.066	61	1869394	14.990	ppbv	98
32) 1,1,1-Trichloroethane	5.992	97	3485330	18.205	ppbv	98
34) 2-Butanone	4.774	43	2719453	17.519	ppbv	98
35) Carbon Tetrachloride	6.484	117	3538240	16.132	ppbv	98
36) Benzene	6.362	78	4596729	14.482	ppbv	98
37) 1,2-Dichloroethane	5.796	62	2683246	17.620	ppbv	100
38) Trichloroethene	7.285	130	2581018	15.192	ppbv	98
39) 1,2-Dichloropropane	7.066	63	1786391	14.445	ppbv	97
40) 1,4-Dioxane	7.278	88	747724	15.789	ppbv	83
41) Tetrahydrofuran	5.545	42	1802718	13.896	ppbv	96
42) Bromodichloromethane	7.243	83	3799372	15.620	ppbv	99
43) Methyl Methacrylate	7.471	69	1912708	15.248	ppbv	99
44) 2,2,4-Trimethylpentane	7.320	57	7324233	13.671	ppbv	99
45) t-1,3-Dichloropropene	8.706	75	2009829	16.726	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	2577741	15.717	ppbv	98
47) 1,1,2-Trichloroethane	8.899	97	1887084	15.069	ppbv	98
48) Dibromochloromethane	9.712	129	3232170	15.148	ppbv	99
49) Bromoform	12.416	173	2676854	15.608	ppbv	100
50) 4-Methyl-2-Pentanone	8.179	43	4723701	14.864	ppbv	100
51) 2-Hexanone	9.548	43	3786131	15.279	ppbv #	100
52) Tetrachloroethene	10.616	164	1676311	14.097	ppbv	97
53) Toluene	9.220	91	5237393	14.383	ppbv	100
54) 1,2-Dibromoethane	10.011	107	2232525	16.064	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.510	131	2277736	14.521	ppbv #	93
57) Chlorobenzene	11.529	112	3993426	14.350	ppbv	99
58) Ethyl Benzene	12.092	91	6916378	13.943	ppbv	98
59) m/p-Xylene	12.378	91	11493923m	27.757	ppbv	
60) o-Xylene	13.066	91	5551286	14.150	ppbv	99
61) Styrene	12.905	104	3579098	14.826	ppbv	99
62) Isopropylbenzene	14.040	105	7885262	13.779	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.053	83	1930810	13.216	ppbv	99
64) n-propylbenzene	14.928	120	2177358	14.223	ppbv	94
65) tert-Butylbenzene	16.104	119	6881361	13.695	ppbv	100
66) Benzyl Chloride	16.339	91	734599	12.574	ppbv	99
67) sec-Butylbenzene	16.651	105	9319494	13.625	ppbv	99
69) p-Isopropyltoluene	17.008	119	7799916	13.748	ppbv	99
70) n-Butylbenzene	17.902	91	7830806	14.277	ppbv	99
71) 2-Chlorotoluene	14.809	91	6078135	14.135	ppbv	99
72) 4-Ethyltoluene	15.204	105	6500647	14.715	ppbv	99
73) 1,3,5-Trimethylbenzene	15.365	105	5819693	14.861	ppbv	99
74) 1,2,4-Trimethylbenzene	16.121	105	6060100	14.565	ppbv #	92
75) 1,3-Dichlorobenzene	16.346	146	3593362	14.791	ppbv	99
76) 1,4-Dichlorobenzene	16.487	146	3519463	14.763	ppbv	98
77) 1,2-Dichlorobenzene	17.156	146	3390646	14.805	ppbv	100
78) Hexachloro-1,3-Butadiene	22.654	225	2104210	12.401	ppbv	100
79) Naphthalene	21.403	128	4236727	14.006	ppbv	99
80) Naphthalene,2-methyl-	24.394	142	1395347	10.880	ppbv	94
81) 1,2,4-Trichlorobenzene	21.159	180	2341441	13.838	ppbv	99

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

