

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102122\
 Data File : VL039747.D
 Acq On : 21 Oct 2022 16:01
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102122

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/24/2022
 Supervised By : Mahesh Dadoda 10/24/2022

Quant Time: Oct 21 16:44:35 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102122AIR.M

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

QLast Update : Fri Oct 21 16:43:21 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	948787	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2880150	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2770791m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 1925691 9.790 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.742	85	1162317	7.316	ppbv	97
3) Chlorodifluoromethane	2.687	51	1202128	9.944	ppbv	98
4) Chloromethane	2.829	50	728695	9.634	ppbv	93
5) Vinyl Chloride	2.935	62	633512	10.669	ppbv	99
6) Bromomethane	3.137	94	208490	9.481	ppbv	91
7) Chloroethane	3.211	64	226728	10.303	ppbv #	88
8) Dichlorotetrafluoroethane	2.874	85	1433043	9.722	ppbv	98
9) Propene	2.703	41	586838	10.632	ppbv	100
10) Heptane	7.578	43	1404393	10.964	ppbv	99
11) Trichlorofluoromethane	3.575	101	1454155	9.833	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.076	101	1157036	9.725	ppbv	98
13) Ethanol	3.260	45	37361m	9.934	ppbv	
14) Bromoethene	3.382	108	456123	10.065	ppbv	98
15) Acetone	3.481	43	1033298	9.020	ppbv	96
16) 1,3-Butadiene	2.999	39	618667	10.760	ppbv	96
17) tert-Butyl alcohol	3.886	59	1131158	11.622	ppbv	99
18) 1,1-Dichloroethene	3.893	96	514205	10.072	ppbv	95
19) Isopropyl Alcohol	3.591	45	604575	10.806	ppbv #	97
20) Methylene Chloride	3.944	84	433389	9.410	ppbv	96
21) Allyl Chloride	4.009	41	833736	10.544	ppbv	95
22) trans-1,2-Dichloroethene	4.452	96	539537	10.410	ppbv	96
23) Vinyl Acetate	4.636	43	499455	10.333	ppbv	99
24) 1,1-Dichloroethane	4.571	63	1086951	9.863	ppbv	100
25) Ethyl Acetate	5.211	43	2199616	9.584	ppbv	99
26) Hexane	5.218	57	891748	9.540	ppbv	99
27) Carbon Disulfide	4.134	76	1298636	11.095	ppbv	98
28) Methyl tert-Butyl Ether	4.594	73	930838	10.501	ppbv	98
29) Chloroform	5.282	83	1224126	8.170	ppbv	97
30) Cyclohexane	6.600	84	859308	10.936	ppbv	98
31) cis-1,2-Dichloroethene	5.083	61	813737	9.708	ppbv	97
32) 1,1,1-Trichloroethane	6.005	97	1476292	11.359	ppbv	98
34) 2-Butanone	4.793	43	1305636	9.828	ppbv	99
35) Carbon Tetrachloride	6.497	117	1539340	10.313	ppbv	98
36) Benzene	6.372	78	2209690	10.166	ppbv	97
37) 1,2-Dichloroethane	5.809	62	1139559	9.732	ppbv	99
38) Trichloroethene	7.288	130	1200903	10.300	ppbv	96
39) 1,2-Dichloropropane	7.073	63	816914	9.797	ppbv	100
40) 1,4-Dioxane	7.292	88	300490m	9.408	ppbv	
41) Tetrahydrofuran	5.565	42	840881	9.872	ppbv	99
42) Bromodichloromethane	7.250	83	1662855	10.341	ppbv	99
43) Methyl Methacrylate	7.475	69	855571	10.942	ppbv	99
44) 2,2,4-Trimethylpentane	7.324	57	3657360	9.930	ppbv	100
45) t-1,3-Dichloropropene	8.703	75	783946	12.112	ppbv	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	1085917	11.844	ppbv	97
47) 1,1,2-Trichloroethane	8.896	97	852713	9.417	ppbv	98
48) Dibromochloromethane	9.706	129	1395647	10.216	ppbv	99
49) Bromoform	12.401	173	1121591	10.199	ppbv	99
50) 4-Methyl-2-Pentanone	8.182	43	2335769	10.783	ppbv	100
51) 2-Hexanone	9.549	43	1781443	11.474	ppbv #	98
52) Tetrachloroethene	10.610	164	794969	10.132	ppbv	99
53) Toluene	9.217	91	2517578	10.727	ppbv	99
54) 1,2-Dibromoethane	10.002	107	973455	10.690	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.500	131	1015931	9.034	ppbv	98
57) Chlorobenzene	11.520	112	1825783	8.981	ppbv	98
58) Ethyl Benzene	12.082	91	3193520	9.979	ppbv	98
59) m/p-Xylene	12.368	91	5365920m	18.971	ppbv	
60) o-Xylene	13.053	91	2552418	9.433	ppbv	100
61) Styrene	12.896	104	1531767	10.820	ppbv	99
62) Isopropylbenzene	14.024	105	3672627	9.113	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.037	83	872209	8.435	ppbv	99
64) n-propylbenzene	14.912	120	934226	9.227	ppbv	97
65) tert-Butylbenzene	16.082	119	3133830	8.876	ppbv	100
66) Benzyl Chloride	16.320	91	207466	8.410	ppbv	96
67) sec-Butylbenzene	16.629	105	4355589	8.917	ppbv	99
69) p-Isopropyltoluene	16.989	119	3574278	9.080	ppbv	100
70) n-Butylbenzene	17.883	91	3520258	9.292	ppbv	99
71) 2-Chlorotoluene	14.793	91	2626992	9.160	ppbv	100
72) 4-Ethyltoluene	15.188	105	2834369	9.386	ppbv	99
73) 1,3,5-Trimethylbenzene	15.349	105	2532763	9.009	ppbv	98
74) 1,2,4-Trimethylbenzene	16.101	105	2731329	8.844	ppbv	95
75) 1,3-Dichlorobenzene	16.323	146	1559047	8.430	ppbv	99
76) 1,4-Dichlorobenzene	16.471	146	1534820	8.495	ppbv	99
77) 1,2-Dichlorobenzene	17.134	146	1499242	8.341	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	1091836	8.406	ppbv	98
79) Naphthalene	21.375	128	2242032	12.401	ppbv	97
80) Naphthalene,2-methyl-	24.368	142	734993	13.613	ppbv	98
81) 1,2,4-Trichlorobenzene	21.133	180	1246803	10.293	ppbv #	100

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

