

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040026.D
 Acq On : 19 Dec 2022 13:23
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2022
 Supervised By : Mahesh Dadoda 12/20/2022

Quant Time: Dec 20 04:24:28 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Tue Dec 20 04:20:10 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	994130	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2852840	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2806120	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.767 95 2109746 9.842 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	2033564	10.928	ppbv	99
3) Chlorodifluoromethane	2.658	51	1804424	12.302	ppbv	98
4) Chloromethane	2.796	50	1140772	12.412	ppbv	100
5) Vinyl Chloride	2.902	62	994452	13.374	ppbv	94
6) Bromomethane	3.102	94	352942	12.918	ppbv	98
7) Chloroethane	3.179	64	372534	13.279	ppbv	92
8) Dichlorotetrafluoroethane	2.838	85	2353941	12.023	ppbv	99
9) Propene	2.674	41	789277	12.680	ppbv	100
10) Heptane	7.565	43	1984266	13.086	ppbv	98
11) Trichlorofluoromethane	3.542	101	2598523	12.851	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.047	101	1950289	12.735	ppbv	99
13) Ethanol	3.224	45	59956m	11.404	ppbv	
14) Bromoethene	3.349	108	786327	13.635	ppbv	99
15) Acetone	3.449	43	1763064	11.464	ppbv	99
16) 1,3-Butadiene	2.967	39	888158	13.286	ppbv	99
17) tert-Butyl alcohol	3.861	59	1743530	11.581	ppbv	100
18) 1,1-Dichloroethene	3.864	96	864431	12.968	ppbv	99
19) Isopropyl Alcohol	3.555	45	915954	12.086	ppbv #	97
20) Methylene Chloride	3.915	84	732357	11.203	ppbv	97
21) Allyl Chloride	3.979	41	1248406	13.509	ppbv	99
22) trans-1,2-Dichloroethene	4.426	96	941210	14.167	ppbv	97
23) Vinyl Acetate	4.610	43	666419	13.664	ppbv #	99
24) 1,1-Dichloroethane	4.545	63	1841018	12.858	ppbv	99
25) Ethyl Acetate	5.185	43	3339254	12.538	ppbv	100
26) Hexane	5.198	57	1426092	12.740	ppbv	98
27) Carbon Disulfide	4.105	76	2203555	15.607	ppbv	98
28) Methyl tert-Butyl Ether	4.568	73	1687466	12.791	ppbv	99
29) Chloroform	5.259	83	2269929	13.288	ppbv	100
30) Cyclohexane	6.587	84	1320756	13.323	ppbv	97
31) cis-1,2-Dichloroethene	5.063	61	1430714	13.421	ppbv	99
32) 1,1,1-Trichloroethane	5.989	97	2605899	14.206	ppbv	100
34) 2-Butanone	4.767	43	2016508	13.391	ppbv	99
35) Carbon Tetrachloride	6.478	117	2711898	15.282	ppbv	99
36) Benzene	6.356	78	3343740	13.124	ppbv	97
37) 1,2-Dichloroethane	5.790	62	2021356	13.524	ppbv	98
38) Trichloroethene	7.275	130	1972843	14.986	ppbv	97
39) 1,2-Dichloropropane	7.057	63	1275536	13.356	ppbv	99
40) 1,4-Dioxane	7.269	88	535020	12.352	ppbv	94
41) Tetrahydrofuran	5.539	42	1265467	13.529	ppbv	99
42) Bromodichloromethane	7.237	83	2895313	14.167	ppbv	98
43) Methyl Methacrylate	7.458	69	1345800	14.075	ppbv	100
44) 2,2,4-Trimethylpentane	7.314	57	5340760	12.733	ppbv	99
45) t-1,3-Dichloropropene	8.700	75	1370851	16.965	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.130	75	1785858	15.667	ppbv	99
47) 1,1,2-Trichloroethane	8.889	97	1412432	13.518	ppbv	99
48) Dibromochloromethane	9.700	129	2401448	15.081	ppbv	100
49) Bromoform	12.397	173	1921834	15.841	ppbv	100
50) 4-Methyl-2-Pentanone	8.166	43	3380932	13.372	ppbv	98
51) 2-Hexanone	9.536	43	2725346	13.901	ppbv	100
52) Tetrachloroethene	10.603	164	1176522	13.493	ppbv	96
53) Toluene	9.208	91	3819380	13.539	ppbv	99
54) 1,2-Dibromoethane	9.999	107	1641217	14.671	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.497	131	1698507	13.114	ppbv	97
57) Chlorobenzene	11.516	112	2953723	12.400	ppbv #	95
58) Ethyl Benzene	12.079	91	5178070	12.988	ppbv	96
59) m/p-Xylene	12.365	91	8800902m	25.342	ppbv	
60) o-Xylene	13.050	91	4220746	12.691	ppbv	99
61) Styrene	12.886	104	2563375	14.453	ppbv	100
62) Isopropylbenzene	14.018	105	5902882	12.304	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.040	83	1426818	11.659	ppbv	99
64) n-propylbenzene	14.908	120	1564495	12.954	ppbv	94
65) tert-Butylbenzene	16.082	119	5115476	12.280	ppbv	100
66) Benzyl Chloride	16.320	91	391164	18.078	ppbv	99
67) sec-Butylbenzene	16.628	105	7074755	12.109	ppbv	99
69) p-Isopropyltoluene	16.985	119	5762279	12.347	ppbv	100
70) n-Butylbenzene	17.879	91	5953526	12.210	ppbv	99
71) 2-Chlorotoluene	14.789	91	4562137	12.464	ppbv	99
72) 4-Ethyltoluene	15.185	105	4813034	13.027	ppbv	99
73) 1,3,5-Trimethylbenzene	15.339	105	4234983	12.670	ppbv	97
74) 1,2,4-Trimethylbenzene	16.098	105	4523002	12.314	ppbv	98
75) 1,3-Dichlorobenzene	16.323	146	2531101	12.620	ppbv	99
76) 1,4-Dichlorobenzene	16.465	146	2515468	12.705	ppbv	99
77) 1,2-Dichlorobenzene	17.133	146	2397006	12.425	ppbv	99
78) Hexachloro-1,3-Butadiene	22.622	225	1546274	11.593	ppbv #	100
79) Naphthalene	21.371	128	3322059	15.226	ppbv	99
80) Naphthalene,2-methyl-	24.365	142	1039819	16.608	ppbv	99
81) 1,2,4-Trichlorobenzene	21.127	180	1688749	13.069	ppbv	100

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

