

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040021.D
 Acq On : 19 Dec 2022 10:16
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: Dec 20 04:21:29 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	5.173	49	1027724	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3010312	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2819748	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.764 95 2093310 9.719 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	373623	1.942	ppbv	96
3) Chlorodifluoromethane	2.655	51	331168	2.184	ppbv	99
4) Chloromethane	2.796	50	208714	2.197	ppbv	95
5) Vinyl Chloride	2.902	62	174131	2.265	ppbv	94
6) Bromomethane	3.102	94	59769	2.116	ppbv	91
7) Chloroethane	3.179	64	62137	2.142	ppbv	98
8) Dichlorotetrafluoroethane	2.838	85	441470	2.181	ppbv	100
9) Propene	2.674	41	141610	2.201	ppbv	95
10) Heptane	7.561	43	352618	2.249	ppbv	98
11) Trichlorofluoromethane	3.542	101	463233	2.216	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	4.047	101	347043	2.192	ppbv	99
13) Ethanol	3.227	45	10706m	1.970	ppbv	
14) Bromoethene	3.346	108	128835	2.161	ppbv	94
15) Acetone	3.452	43	365958	2.302	ppbv	97
16) 1,3-Butadiene	2.967	39	164724	2.384	ppbv	100
17) tert-Butyl alcohol	3.864	59	332409	2.136	ppbv	98
18) 1,1-Dichloroethene	3.861	96	153707	2.231	ppbv	88
19) Isopropyl Alcohol	3.565	45	174556	2.228	ppbv #	95
20) Methylene Chloride	3.915	84	149987	2.219	ppbv	96
21) Allyl Chloride	3.976	41	212385	2.223	ppbv	99
22) trans-1,2-Dichloroethene	4.427	96	148825	2.167	ppbv	94
23) Vinyl Acetate	4.610	43	113573m	2.253	ppbv	
24) 1,1-Dichloroethane	4.546	63	327185	2.210	ppbv	98
25) Ethyl Acetate	5.185	43	609811	2.215	ppbv	99
26) Hexane	5.195	57	257657	2.227	ppbv	96
27) Carbon Disulfide	4.108	76	326420	2.236	ppbv	99
28) Methyl tert-Butyl Ether	4.571	73	304359	2.232	ppbv	100
29) Chloroform	5.256	83	380604	2.155	ppbv	98
30) Cyclohexane	6.584	84	232628	2.270	ppbv	94
31) cis-1,2-Dichloroethene	5.057	61	234515	2.128	ppbv	91
32) 1,1,1-Trichloroethane	5.983	97	445704	2.350	ppbv	99
34) 2-Butanone	4.771	43	366782	2.308	ppbv	98
35) Carbon Tetrachloride	6.478	117	441703	2.359	ppbv	100
36) Benzene	6.349	78	606672	2.257	ppbv	99
37) 1,2-Dichloroethane	5.787	62	358418	2.273	ppbv	99
38) Trichloroethene	7.275	130	329383	2.371	ppbv	92
39) 1,2-Dichloropropane	7.053	63	226397	2.247	ppbv	95
40) 1,4-Dioxane	7.282	88	100815m	2.206	ppbv	
41) Tetrahydrofuran	5.552	42	233530m	2.366	ppbv	
42) Bromodichloromethane	7.227	83	485434	2.251	ppbv	94
43) Methyl Methacrylate	7.459	69	231534	2.295	ppbv	100
44) 2,2,4-Trimethylpentane	7.307	57	1007975	2.277	ppbv	100
45) t-1,3-Dichloropropene	8.690	75	184612	2.165	ppbv	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.127	75	270584	2.250	ppbv	96
47) 1,1,2-Trichloroethane	8.880	97	249427	2.262	ppbv	95
48) Dibromochloromethane	9.693	129	380104	2.262	ppbv	100
49) Bromoform	12.388	173	290184	2.267	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	616955	2.312	ppbv	100
51) 2-Hexanone	9.542	43	477909	2.310	ppbv #	99
52) Tetrachloroethene	10.600	164	206385	2.243	ppbv	98
53) Toluene	9.204	91	676531	2.273	ppbv	100
54) 1,2-Dibromoethane	9.992	107	280198	2.374	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.491	131	291832	2.242	ppbv #	1
57) Chlorobenzene	11.510	112	528541	2.208	ppbv	95
58) Ethyl Benzene	12.076	91	920923	2.299	ppbv	97
59) m/p-Xylene	12.359	91	1582031m	4.533	ppbv	
60) o-Xylene	13.040	91	765089	2.289	ppbv	98
61) Styrene	12.883	104	411314	2.308	ppbv	98
62) Isopropylbenzene	14.018	105	1093310	2.268	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.034	83	294274	2.393	ppbv	99
64) n-propylbenzene	14.902	120	280044	2.308	ppbv	96
65) tert-Butylbenzene	16.076	119	968146	2.313	ppbv	98
66) Benzyl Chloride	16.317	91	49775m	2.289	ppbv	
67) sec-Butylbenzene	16.622	105	1368148	2.330	ppbv	100
69) p-Isopropyltoluene	16.982	119	1113169	2.374	ppbv	99
70) n-Butylbenzene	17.873	91	1174066	2.396	ppbv	97
71) 2-Chlorotoluene	14.786	91	848098	2.306	ppbv	99
72) 4-Ethyltoluene	15.179	105	848637	2.286	ppbv	99
73) 1,3,5-Trimethylbenzene	15.339	105	767082	2.284	ppbv	92
74) 1,2,4-Trimethylbenzene	16.095	105	854017	2.314	ppbv	96
75) 1,3-Dichlorobenzene	16.314	146	469110m	2.328	ppbv	
76) 1,4-Dichlorobenzene	16.461	146	443213	2.228	ppbv	98
77) 1,2-Dichlorobenzene	17.127	146	441061	2.275	ppbv	99
78) Hexachloro-1,3-Butadiene	22.625	225	313552	2.340	ppbv #	100
79) Naphthalene	21.368	128	602308m	2.747	ppbv	
80) Naphthalene,2-methyl-	24.374	142	147853	2.350	ppbv	94
81) 1,2,4-Trichlorobenzene	21.124	180	313179m	2.412	ppbv	

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

