

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081523\
 Data File : VL040632.D
 Acq On : 15 Aug 2023 12:18
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/16/2023
 Supervised By : Mahesh Dadoda 08/16/2023

Quant Time: Aug 16 04:48:05 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 16 04:48:05 2023

QLast Update : Wed Aug 16 04:44:10 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	998945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2709180	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2375244	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 1895251 10.033 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.719	85	122104	0.567	ppbv	97
3) Chlorodifluoromethane	2.665	51	88226	0.538	ppbv	99
4) Chloromethane	2.806	50	35473	0.554	ppbv	89
5) Vinyl Chloride	2.912	62	35305	0.520	ppbv	93
6) Bromomethane	3.115	94	17780	0.497	ppbv	87
7) Chloroethane	3.189	64	13822	0.558	ppbv #	77
8) Dichlorotetrafluoroethane	2.848	85	93298	0.536	ppbv	99
9) Propene	2.687	41	27666	0.544	ppbv	95
10) Heptane	7.587	43	48578	0.415	ppbv	91
11) Trichlorofluoromethane	3.555	101	95583	0.550	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.063	101	67636	0.531	ppbv	95
13) Ethanol	3.259	45	6061m	0.497	ppbv	
14) Bromoethene	3.359	108	26349	0.503	ppbv #	91
15) Acetone	3.478	43	66473	0.544	ppbv	90
16) 1,3-Butadiene	2.977	39	28740	0.473	ppbv	91
17) tert-Butyl alcohol	3.893	59	54132m	0.418	ppbv	
18) 1,1-Dichloroethene	3.874	96	27413	0.469	ppbv	85
19) Isopropyl Alcohol	3.594	45	29810m	0.385	ppbv	
20) Methylene Chloride	3.928	84	39694	0.665	ppbv	93
21) Allyl Chloride	3.993	41	40896	0.506	ppbv	93
22) trans-1,2-Dichloroethene	4.446	96	30709	0.535	ppbv	87
23) Vinyl Acetate	4.632	43	61120	0.458	ppbv #	94
24) 1,1-Dichloroethane	4.562	63	64848	0.545	ppbv	100
25) Ethyl Acetate	5.214	43	118844	0.518	ppbv	99
26) Hexane	5.208	57	58631	0.528	ppbv #	92
27) Carbon Disulfide	4.121	76	63793	0.483	ppbv #	92
28) Methyl tert-Butyl Ether	4.594	73	46361m	0.540	ppbv	
29) Chloroform	5.275	83	91292	0.519	ppbv	94
30) Cyclohexane	6.607	84	44328m	0.545	ppbv	
31) cis-1,2-Dichloroethene	5.079	61	48506	0.484	ppbv	90
32) 1,1,1-Trichloroethane	6.005	97	88642	0.526	ppbv	100
34) 2-Butanone	4.796	43	60131	0.440	ppbv	93
35) Carbon Tetrachloride	6.497	117	85683	0.504	ppbv	91
36) Benzene	6.375	78	106045	0.492	ppbv #	91
37) 1,2-Dichloroethane	5.809	62	65271	0.502	ppbv	100
38) Trichloroethene	7.298	130	36041	0.430	ppbv	95
39) 1,2-Dichloropropane	7.076	63	39382	0.480	ppbv #	90
40) 1,4-Dioxane	7.333	88	9478m	0.308	ppbv	
41) Tetrahydrofuran	5.584	42	34448m	0.448	ppbv	
42) Bromodichloromethane	7.253	83	83221	0.460	ppbv #	94
43) Methyl Methacrylate	7.488	69	31743	0.394	ppbv	96
44) 2,2,4-Trimethylpentane	7.333	57	148634	0.427	ppbv	92
45) t-1,3-Dichloropropene	8.722	75	24236m	0.381	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	29509	0.377	ppbv	96
47) 1,1,2-Trichloroethane	8.909	97	44554m	0.481	ppbv	
48) Dibromochloromethane	9.716	129	59464	0.410	ppbv	94
49) Bromoform	12.417	173	45780	0.395	ppbv	99
50) 4-Methyl-2-Pentanone	8.211	43	82951m	0.415	ppbv	
51) 2-Hexanone	9.590	43	53788m	0.384	ppbv	
52) Tetrachloroethene	10.626	164	32214	0.477	ppbv	88
53) Toluene	9.227	91	86543m	0.378	ppbv	
54) 1,2-Dibromoethane	10.018	107	56863m	0.511	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.516	131	52337	0.476	ppbv #	1
57) Chlorobenzene	11.536	112	91716	0.500	ppbv #	94
58) Ethyl Benzene	12.098	91	113874m	0.398	ppbv	
59) m/p-Xylene	12.385	91	220954m	0.846	ppbv	
60) o-Xylene	13.066	91	106669m	0.431	ppbv	
61) Styrene	12.905	104	35263m	0.325	ppbv	
62) Isopropylbenzene	14.040	105	164858	0.440	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.060	83	97690	0.520	ppbv	98
64) n-propylbenzene	14.921	120	38608m	0.408	ppbv	
65) tert-Butylbenzene	16.098	119	135191	0.416	ppbv	92
66) Benzyl Chloride	16.343	91	16674m	0.411	ppbv	
67) sec-Butylbenzene	16.648	105	196696	0.415	ppbv	99
69) p-Isopropyltoluene	17.005	119	152829m	0.412	ppbv	
70) n-Butylbenzene	17.905	91	167419m	0.414	ppbv	
71) 2-Chlorotoluene	14.815	91	117408	0.422	ppbv	97
72) 4-Ethyltoluene	15.208	105	104461	0.374	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.362	105	98455	0.395	ppbv	98
74) 1,2,4-Trimethylbenzene	16.114	105	128917m	0.442	ppbv	
75) 1,3-Dichlorobenzene	16.343	146	79575m	0.472	ppbv	
76) 1,4-Dichlorobenzene	16.484	146	68787	0.409	ppbv	91
77) 1,2-Dichlorobenzene	17.153	146	79671m	0.481	ppbv	
78) Hexachloro-1,3-Butadiene	22.641	225	63594m	0.505	ppbv	
79) Naphthalene	21.403	128	71814m	0.368	ppbv	
80) Naphthalene,2-methyl-	24.423	142	11989m	0.230	ppbv	
81) 1,2,4-Trichlorobenzene	21.162	180	49752m	0.392	ppbv	

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

