

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040753.D
 Acq On : 11 Oct 2023 11:21
 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 10/12/2023
 Supervised By : Mahesh Dadoda 10/16/2023

Quant Time: Oct 11 14:07:31 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Wed Oct 11 14:05:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1221669	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3387453	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	3157323	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2378853 9.752 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.500%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.751	85	119795m	0.445	ppbv	
3) Chlorodifluoromethane	2.700	51	101787	0.511	ppbv	100
4) Chloromethane	2.835	50	39028	0.512	ppbv	91
5) Vinyl Chloride	2.941	62	37313	0.414	ppbv	91
6) Bromomethane	3.144	94	16400	0.377	ppbv	89
7) Chloroethane	3.217	64	12921	0.418	ppbv	94
8) Dichlorotetrafluoroethane	2.877	85	90081	0.405	ppbv	97
9) Propene	2.716	41	38019	0.663	ppbv	92
10) Heptane	7.584	43	86821	0.672	ppbv	93
11) Trichlorofluoromethane	3.578	101	86336	0.365	ppbv	96
12) 1,1,2-Trichlorotrifluoro...	4.082	101	61052	0.361	ppbv	97
13) Ethanol	3.279	45	7313m	0.431	ppbv	
14) Bromoethene	3.381	108	27032	0.381	ppbv #	92
15) Acetone	3.504	43	70187	0.436	ppbv #	85
16) 1,3-Butadiene	3.002	39	36906	0.526	ppbv	93
17) tert-Butyl alcohol	3.915	59	77326m	0.468	ppbv	
18) 1,1-Dichloroethene	3.896	96	27096	0.360	ppbv	97
19) Isopropyl Alcohol	3.610	45	48938m	0.504	ppbv	
20) Methylene Chloride	3.954	84	37622m	0.434	ppbv	
21) Allyl Chloride	4.015	41	45588	0.462	ppbv	87
22) trans-1,2-Dichloroethene	4.465	96	29672m	0.399	ppbv	
23) Vinyl Acetate	4.648	43	75464	0.453	ppbv #	96
24) 1,1-Dichloroethane	4.574	63	62416	0.400	ppbv	97
25) Ethyl Acetate	5.227	43	134517	0.518	ppbv #	92
26) Hexane	5.221	57	72581	0.591	ppbv	90
27) Carbon Disulfide	4.140	76	63533	0.371	ppbv #	77
28) Methyl tert-Butyl Ether	4.616	73	49508	0.468	ppbv #	90
29) Chloroform	5.282	83	87783	0.414	ppbv	96
30) Cyclohexane	6.613	84	56494	0.610	ppbv	95
31) cis-1,2-Dichloroethene	5.092	61	59020	0.518	ppbv	98
32) 1,1,1-Trichloroethane	6.008	97	96417	0.444	ppbv	99
34) 2-Butanone	4.815	43	69843	0.410	ppbv	95
35) Carbon Tetrachloride	6.500	117	96568	0.415	ppbv	95
36) Benzene	6.378	78	139266	0.555	ppbv	95
37) 1,2-Dichloroethane	5.812	62	64647	0.377	ppbv #	95
38) Trichloroethene	7.294	130	54632	0.571	ppbv	93
39) 1,2-Dichloropropane	7.079	63	53696	0.556	ppbv	92
40) 1,4-Dioxane	7.330	88	20388m	0.559	ppbv	
41) Tetrahydrofuran	5.594	42	52181	0.597	ppbv	94
42) Bromodichloromethane	7.256	83	100724	0.430	ppbv #	93
43) Methyl Methacrylate	7.484	69	56005	0.601	ppbv	97
44) 2,2,4-Trimethylpentane	7.333	57	242973	0.608	ppbv	96
45) t-1,3-Dichloropropene	8.719	75	40116m	0.555	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	54298m	0.614	ppbv	
47) 1,1,2-Trichloroethane	8.905	97	55587	0.502	ppbv	89
48) Dibromochloromethane	9.719	129	83743m	0.458	ppbv	
49) Bromoform	12.407	173	71048	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	8.204	43	128181	0.557	ppbv	96
51) 2-Hexanone	9.581	43	81166	0.511	ppbv #	75
52) Tetrachloroethene	10.622	164	53401m	0.653	ppbv	
53) Toluene	9.227	91	163309	0.617	ppbv	99
54) 1,2-Dibromoethane	10.011	107	74998	0.530	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.507	131	71299m	0.474	ppbv	
57) Chlorobenzene	11.529	112	121921	0.510	ppbv	93
58) Ethyl Benzene	12.089	91	226975	0.631	ppbv	95
59) m/p-Xylene	12.365	91	368303m	1.090	ppbv	
60) o-Xylene	13.060	91	173491	0.538	ppbv	99
61) Styrene	12.902	104	90164	0.667	ppbv	99
62) Isopropylbenzene	14.034	105	262123	0.539	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.047	83	122443m	0.485	ppbv	
64) n-propylbenzene	14.918	120	66160	0.544	ppbv	76
65) tert-Butylbenzene	16.095	119	237299	0.543	ppbv	96
66) Benzyl Chloride	16.333	91	24768m	0.486	ppbv	
67) sec-Butylbenzene	16.638	105	334384	0.535	ppbv	99
69) p-Isopropyltoluene	16.998	119	276030	0.562	ppbv	98
70) n-Butylbenzene	17.895	91	261858	0.484	ppbv	100
71) 2-Chlorotoluene	14.805	91	202111m	0.561	ppbv	
72) 4-Ethyltoluene	15.198	105	200290	0.554	ppbv	99
73) 1,3,5-Trimethylbenzene	15.352	105	171431	0.527	ppbv	99
74) 1,2,4-Trimethylbenzene	16.108	105	191567	0.483	ppbv #	86
75) 1,3-Dichlorobenzene	16.342	146	114525m	0.507	ppbv	
76) 1,4-Dichlorobenzene	16.481	146	116620m	0.524	ppbv	
77) 1,2-Dichlorobenzene	17.146	146	119852m	0.532	ppbv	
78) Hexachloro-1,3-Butadiene	22.641	225	86138	0.506	ppbv	99
79) Naphthalene	21.394	128	151838	0.615	ppbv	96
80) Naphthalene,2-methyl-	24.397	142	42375m	0.701	ppbv	
81) 1,2,4-Trichlorobenzene	21.146	180	84960m	0.527	ppbv	

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

