

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040434.D
 Acq On : 16 May 2023 11:34
 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 05/17/2023
 Supervised By : Mahesh Dadoda 05/17/2023

Quant Time: May 16 12:49:02 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M

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

QLast Update : Tue May 16 11:16:05 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1040426	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2687738	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2362583	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 1911589 9.784 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.729	85	123126	0.656	ppbv	97
3) Chlorodifluoromethane	2.674	51	69099	0.508	ppbv	100
4) Chloromethane	2.812	50	42107	0.490	ppbv	99
5) Vinyl Chloride	2.922	62	36611	0.516	ppbv	99
6) Bromomethane	3.118	94	11755m	0.503	ppbv	
7) Chloroethane	3.201	64	13598	0.507	ppbv #	84
8) Dichlorotetrafluoroethane	2.857	85	98466	0.537	ppbv	100
9) Propene	2.697	41	27844	0.518	ppbv	99
10) Heptane	7.587	43	51470	0.422	ppbv	94
11) Trichlorofluoromethane	3.562	101	97942	0.516	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.070	101	71707	0.540	ppbv	100
13) Ethanol	3.262	45	2131m	0.475	ppbv	
14) Bromoethene	3.369	108	26745	0.492	ppbv #	97
15) Acetone	3.481	43	74334	0.504	ppbv	95
16) 1,3-Butadiene	2.983	39	30222m	0.496	ppbv	
17) tert-Butyl alcohol	3.899	59	64358	0.476	ppbv	96
18) 1,1-Dichloroethene	3.883	96	30923	0.516	ppbv	86
19) Isopropyl Alcohol	3.600	45	29931	0.445	ppbv #	91
20) Methylene Chloride	3.934	84	33213	0.565	ppbv	95
21) Allyl Chloride	4.005	41	43396m	0.518	ppbv	
22) trans-1,2-Dichloroethene	4.452	96	30330	0.506	ppbv	91
23) Vinyl Acetate	4.632	43	16755m	0.447	ppbv	
24) 1,1-Dichloroethane	4.568	63	64093	0.513	ppbv #	96
25) Ethyl Acetate	5.221	43	126283	0.509	ppbv	99
26) Hexane	5.221	57	49382	0.472	ppbv	85
27) Carbon Disulfide	4.131	76	61344	0.453	ppbv #	88
28) Methyl tert-Butyl Ether	4.603	73	51966	0.482	ppbv	93
29) Chloroform	5.278	83	99321	0.533	ppbv	94
30) Cyclohexane	6.610	84	44794m	0.553	ppbv	
31) cis-1,2-Dichloroethene	5.086	61	45931	0.443	ppbv #	85
32) 1,1,1-Trichloroethane	6.012	97	89011	0.492	ppbv	98
34) 2-Butanone	4.809	43	71016	0.490	ppbv	99
35) Carbon Tetrachloride	6.497	117	90151m	0.476	ppbv	
36) Benzene	6.378	78	102715	0.468	ppbv	96
37) 1,2-Dichloroethane	5.815	62	68393	0.475	ppbv	99
38) Trichloroethene	7.301	130	57226	0.459	ppbv	96
39) 1,2-Dichloropropane	7.079	63	40741m	0.472	ppbv	
40) 1,4-Dioxane	7.339	88	16015m	0.485	ppbv	
41) Tetrahydrofuran	5.590	42	33774m	0.426	ppbv	
42) Bromodichloromethane	7.256	83	87346m	0.444	ppbv	
43) Methyl Methacrylate	7.494	69	31872	0.391	ppbv	94
44) 2,2,4-Trimethylpentane	7.339	57	159287	0.435	ppbv	92
45) t-1,3-Dichloropropene	8.719	75	25366m	0.349	ppbv	

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

QLast Update : Tue May 16 11:16:05 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.156	75	38957m	0.385	ppbv	
47) 1,1,2-Trichloroethane	8.912	97	45015	0.476	ppbv	88
48) Dibromochloromethane	9.719	129	60286m	0.396	ppbv	
49) Bromoform	12.416	173	46129m	0.388	ppbv	
50) 4-Methyl-2-Pentanone	8.208	43	97186m	0.442	ppbv	
51) 2-Hexanone	9.581	43	62530m	0.385	ppbv	
52) Tetrachloroethene	10.626	164	34105m	0.497	ppbv	
53) Toluene	9.227	91	90549	0.389	ppbv	99
54) 1,2-Dibromoethane	10.021	107	44085m	0.460	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.519	131	53323m	0.494	ppbv	
57) Chlorobenzene	11.532	112	97236m	0.526	ppbv	
58) Ethyl Benzene	12.101	91	118831	0.409	ppbv	95
59) m/p-Xylene	12.381	91	232424m	0.870	ppbv	
60) o-Xylene	13.072	91	106656	0.416	ppbv	100
61) Styrene	12.912	104	42672m	0.332	ppbv	
62) Isopropylbenzene	14.043	105	171074m	0.463	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.066	83	45796m	0.488	ppbv	
64) n-propylbenzene	14.931	120	40526	0.446	ppbv	86
65) tert-Butylbenzene	16.108	119	146063m	0.449	ppbv	
66) Benzyl Chloride	16.349	91	8076m	0.401	ppbv	
67) sec-Butylbenzene	16.648	105	208971	0.448	ppbv	99
69) p-Isopropyltoluene	17.008	119	155314m	0.426	ppbv	
70) n-Butylbenzene	17.905	91	175648m	0.435	ppbv	
71) 2-Chlorotoluene	14.821	91	121671m	0.429	ppbv	
72) 4-Ethyltoluene	15.207	105	122468m	0.432	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	116292m	0.445	ppbv	
74) 1,2,4-Trimethylbenzene	16.124	105	140820m	0.471	ppbv	
75) 1,3-Dichlorobenzene	16.342	146	79616m	0.486	ppbv	
76) 1,4-Dichlorobenzene	16.484	146	78340m	0.484	ppbv	
77) 1,2-Dichlorobenzene	17.165	146	76267m	0.471	ppbv	
78) Hexachloro-1,3-Butadiene	22.648	225	64845m	0.500	ppbv	
79) Naphthalene	21.406	128	66916m	0.332	ppbv	
80) Naphthalene,2-methyl-	24.400	142	9967m	0.166	ppbv	
81) 1,2,4-Trichlorobenzene	21.162	180	46327m	0.374	ppbv	

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

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Supervised By :Mahesh Dadoda 05/17/2023

[illegible]