

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031323\
 Data File : VL040277.D
 Acq On : 14 Mar 2023 9:06
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/14/2023
 Supervised By : Mahesh Dadoda 03/15/2023

Quant Time: Mar 14 09:39:46 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

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

QLast Update : Tue Mar 14 04:52:39 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	949668	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2595795	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	2449403m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.809 95 1848704 9.179 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 91.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.732	85	1580106	8.927	ppbv	100
3) Chlorodifluoromethane	2.677	51	1173316	10.342	ppbv	97
4) Chloromethane	2.819	50	769563	10.799	ppbv	97
5) Vinyl Chloride	2.925	62	646752	11.294	ppbv	100
6) Bromomethane	3.127	94	202865	9.815	ppbv	99
7) Chloroethane	3.201	64	233640	10.289	ppbv	99
8) Dichlorotetrafluoroethane	2.861	85	1541210	10.105	ppbv	97
9) Propene	2.697	41	525906	11.373	ppbv	98
10) Heptane	7.603	43	1272824	11.564	ppbv	100
11) Trichlorofluoromethane	3.571	101	1523756	9.595	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.079	101	1128311	9.631	ppbv	94
13) Ethanol	3.256	45	30165	7.086	ppbv	88
14) Bromoethene	3.375	108	482076	10.730	ppbv	98
15) Acetone	3.475	43	1126246	9.850	ppbv	99
16) 1,3-Butadiene	2.989	39	583838	11.182	ppbv	98
17) tert-Butyl alcohol	3.890	59	1167868	11.200	ppbv	99
18) 1,1-Dichloroethene	3.890	96	529493	10.402	ppbv	95
19) Isopropyl Alcohol	3.581	45	538329	9.905	ppbv #	96
20) Methylene Chloride	3.944	84	441348	7.415	ppbv	92
21) Allyl Chloride	4.008	41	805223	11.482	ppbv	100
22) trans-1,2-Dichloroethene	4.459	96	557851	10.583	ppbv	96
23) Vinyl Acetate	4.639	43	387627	11.171	ppbv	98
24) 1,1-Dichloroethane	4.578	63	1138852	10.500	ppbv	99
25) Ethyl Acetate	5.221	43	2278615	10.721	ppbv	100
26) Hexane	5.230	57	989505	10.845	ppbv	96
27) Carbon Disulfide	4.134	76	1331495	11.500	ppbv	99
28) Methyl tert-Butyl Ether	4.600	73	1069969	10.944	ppbv	99
29) Chloroform	5.291	83	1591761	10.160	ppbv	97
30) Cyclohexane	6.623	84	845113	11.796	ppbv	99
31) cis-1,2-Dichloroethene	5.095	61	881161	10.164	ppbv	98
32) 1,1,1-Trichloroethane	6.021	97	1604980	10.903	ppbv	100
34) 2-Butanone	4.799	43	1280849	10.003	ppbv	99
35) Carbon Tetrachloride	6.516	117	1638806	10.679	ppbv	98
36) Benzene	6.391	78	2151468	10.650	ppbv	99
37) 1,2-Dichloroethane	5.825	62	1231799	9.750	ppbv	99
38) Trichloroethene	7.317	130	1229606	11.046	ppbv	98
39) 1,2-Dichloropropane	7.098	63	817788	10.407	ppbv	99
40) 1,4-Dioxane	7.311	88	298131	9.484	ppbv	80
41) Tetrahydrofuran	5.574	42	826975	11.145	ppbv	100
42) Bromodichloromethane	7.272	83	1772240	10.163	ppbv	98
43) Methyl Methacrylate	7.500	69	850066	11.372	ppbv	96
44) 2,2,4-Trimethylpentane	7.352	57	3517669	10.432	ppbv	98
45) t-1,3-Dichloropropene	8.738	75	796247	12.009	ppbv	97

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

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 Supervised By : Mahesh Dadoda 03/15/2023

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

QLast Update : Tue Mar 14 04:52:39 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.166	75	1091241	11.813	ppbv	95
47) 1,1,2-Trichloroethane	8.928	97	873502	10.277	ppbv	98
48) Dibromochloromethane	9.741	129	1466349	10.786	ppbv	100
49) Bromoform	12.439	173	1143773	10.779	ppbv	100
50) 4-Methyl-2-Pentanone	8.204	43	2149898	10.813	ppbv	100
51) 2-Hexanone	9.577	43	1656959	10.837	ppbv #	99
52) Tetrachloroethene	10.645	164	702077	11.130	ppbv	96
53) Toluene	9.249	91	2424773	11.207	ppbv	99
54) 1,2-Dibromoethane	10.037	107	962814	10.887	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.539	131	1049488	10.207	ppbv	96
57) Chlorobenzene	11.555	112	1822502	10.184	ppbv	99
58) Ethyl Benzene	12.121	91	3227627	10.845	ppbv	99
59) m/p-Xylene	12.404	91	5441899m	20.645	ppbv	
60) o-Xylene	13.092	91	2600595	10.253	ppbv	99
61) Styrene	12.925	104	1531375	11.500	ppbv	98
62) Isopropylbenzene	14.060	105	3672957	10.089	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.076	83	851988	9.322	ppbv	100
64) n-propylbenzene	14.947	120	944299	10.480	ppbv	97
65) tert-Butylbenzene	16.121	119	3158116	9.980	ppbv	98
66) Benzyl Chloride	16.362	91	203748	9.675	ppbv	97
67) sec-Butylbenzene	16.667	105	4459620	9.826	ppbv	100
69) p-Isopropyltoluene	17.024	119	3582223	9.956	ppbv	99
70) n-Butylbenzene	17.918	91	3796869	9.723	ppbv	99
71) 2-Chlorotoluene	14.831	91	2789992	10.020	ppbv	100
72) 4-Ethyltoluene	15.227	105	2913744	10.392	ppbv	99
73) 1,3,5-Trimethylbenzene	15.381	105	2589922	9.927	ppbv	98
74) 1,2,4-Trimethylbenzene	16.140	105	2774848	9.683	ppbv	99
75) 1,3-Dichlorobenzene	16.365	146	1538454	9.810	ppbv	99
76) 1,4-Dichlorobenzene	16.506	146	1475648	9.602	ppbv	99
77) 1,2-Dichlorobenzene	17.178	146	1463243	9.393	ppbv	100
78) Hexachloro-1,3-Butadiene	22.673	225	1006188	9.402	ppbv	99
79) Naphthalene	21.419	128	1980968	12.305	ppbv	98
80) Naphthalene,2-methyl-	24.406	142	483735	10.566	ppbv	97
81) 1,2,4-Trichlorobenzene	21.175	180	1070118	10.622	ppbv	98

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

Reviewed By :Semsettin Yesilyurt 03/14/2023
Supervised By :Mahesh Dadoda 03/15/2023

TIC: VL040277.D\data.ms

Abundance

Time-->

7500000

7000000

6500000

6000000

5500000

5000000

4500000

4000000

3500000

3000000

2500000

2000000

1500000

1000000

500000

0

4.00

6.00

8.00

10.00

12.00

14.00

16.00

18.00

20.00

22.00

24.00

26.00

Dichlorotetrafluoroethane, T

Dichlorodifluoromethane, T

1,1,1-Trichloroethane, T

1,1,2-Trichloroethane, T

1,1,2,2-Tetrachloroethane, T

1,1,2,2,3-Pentachloroethane, T

1,1,2,2,3,3-Hexachloroethane, T

1,1,2,2,3,3,4-Heptachloroethane, T

1,1,2,2,3,3,4,4-Octachloroethane, T

1,1,2,2,3,3,4,4,5-Nonachloroethane, T

1,1,2,2,3,3,4,4,5,5-Decachloroethane, T

1,1,2,2,3,3,4,4,5,5,6-Undecachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6-Dodecachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7-Trichloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7-Tetrachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8-Pentachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Hexachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9-Heptachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-Octachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10-Nonachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-Decachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11-Undecachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-Dodecachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12-Trichloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Tetrachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13-Pentachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-Hexachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14-Heptachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-Octachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15-Nonachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-Decachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16-Trichloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16-Tetrachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17-Pentachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17-Hexachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18-Heptachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18-Octachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19-Nonachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19-Decachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20-Trichloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20-Tetrachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21-Pentachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21-Hexachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22-Heptachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22-Octachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23-Nonachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23-Decachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24-Trichloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24-Tetrachloroethane, T

1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25-Pentachloroethane, T

1,1,2,2,3,3,4,4,5,5,6