

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040755.D
 Acq On : 11 Oct 2023 12:41
 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 10/12/2023
 Supervised By : Mahesh Dadoda 10/16/2023

Quant Time: Oct 11 14:01:16 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 12:36:37 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1140291	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	3171153	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	3106003	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2260269 9.419 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.758	85	430318	1.713	ppbv	99
3) Chlorodifluoromethane	2.703	51	351532	1.892	ppbv	100
4) Chloromethane	2.841	50	139527	1.962	ppbv	99
5) Vinyl Chloride	2.947	62	137400	1.635	ppbv	97
6) Bromomethane	3.147	94	58848	1.451	ppbv	99
7) Chloroethane	3.224	64	47059	1.630	ppbv	97
8) Dichlorotetrafluoroethane	2.883	85	318244	1.534	ppbv	96
9) Propene	2.722	41	127727	2.387	ppbv	94
10) Heptane	7.590	43	332875	2.760	ppbv	99
11) Trichlorofluoromethane	3.587	101	326683	1.479	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.086	101	234135	1.482	ppbv	99
13) Ethanol	3.279	45	27202	1.717	ppbv	89
14) Bromoethene	3.388	108	103937	1.568	ppbv	99
15) Acetone	3.497	43	268745	1.787	ppbv	100
16) 1,3-Butadiene	3.012	39	130954	1.998	ppbv	98
17) tert-Butyl alcohol	3.906	59	235183	1.526	ppbv	100
18) 1,1-Dichloroethene	3.902	96	106768	1.520	ppbv	98
19) Isopropyl Alcohol	3.603	45	144760	1.597	ppbv #	40
20) Methylene Chloride	3.954	84	97863	1.209	ppbv	93
21) Allyl Chloride	4.018	41	160969	1.746	ppbv	91
22) trans-1,2-Dichloroethene	4.465	96	100285	1.444	ppbv	93
23) Vinyl Acetate	4.645	43	281888	1.812	ppbv #	96
24) 1,1-Dichloroethane	4.578	63	230468	1.583	ppbv	99
25) Ethyl Acetate	5.224	43	548390	2.261	ppbv	99
26) Hexane	5.230	57	252557	2.202	ppbv	98
27) Carbon Disulfide	4.144	76	277812	1.737	ppbv #	91
28) Methyl tert-Butyl Ether	4.610	73	183379	1.858	ppbv	97
29) Chloroform	5.288	83	361434	1.825	ppbv	98
30) Cyclohexane	6.613	84	206031	2.385	ppbv	99
31) cis-1,2-Dichloroethene	5.095	61	230034	2.162	ppbv	93
32) 1,1,1-Trichloroethane	6.012	97	371591	1.835	ppbv	100
34) 2-Butanone	4.809	43	305925	1.918	ppbv	97
35) Carbon Tetrachloride	6.507	117	370859	1.703	ppbv	98
36) Benzene	6.381	78	518992	2.210	ppbv	99
37) 1,2-Dichloroethane	5.822	62	259527	1.615	ppbv	99
38) Trichloroethene	7.301	130	197535	2.206	ppbv	95
39) 1,2-Dichloropropane	7.082	63	199156	2.203	ppbv	96
40) 1,4-Dioxane	7.311	88	70809	2.072	ppbv #	95
41) Tetrahydrofuran	5.581	42	213303	2.608	ppbv	99
42) Bromodichloromethane	7.259	83	400497	1.826	ppbv	96
43) Methyl Methacrylate	7.487	69	206110	2.361	ppbv	100
44) 2,2,4-Trimethylpentane	7.340	57	886436	2.371	ppbv	99
45) t-1,3-Dichloropropene	8.716	75	161260	2.383	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	198461	2.397	ppbv	93
47) 1,1,2-Trichloroethane	8.909	97	211007	2.034	ppbv	95
48) Dibromochloromethane	9.719	129	355382	2.077	ppbv	99
49) Bromoform	12.410	173	303763	2.161	ppbv	99
50) 4-Methyl-2-Pentanone	8.195	43	535695	2.486	ppbv	100
51) 2-Hexanone	9.568	43	381826	2.567	ppbv #	93
52) Tetrachloroethene	10.622	164	200583	2.619	ppbv	94
53) Toluene	9.227	91	617192	2.489	ppbv	98
54) 1,2-Dibromoethane	10.015	107	297069	2.244	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.513	131	269662	1.821	ppbv #	1
57) Chlorobenzene	11.532	112	473619	2.014	ppbv	98
58) Ethyl Benzene	12.092	91	836972	2.364	ppbv	98
59) m/p-Xylene	12.378	91	1388722m	4.176	ppbv	
60) o-Xylene	13.063	91	653238	2.060	ppbv	99
61) Styrene	12.902	104	361667	2.721	ppbv	99
62) Isopropylbenzene	14.031	105	1019908	2.130	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.053	83	459963	1.851	ppbv	99
64) n-propylbenzene	14.918	120	273112	2.281	ppbv	93
65) tert-Butylbenzene	16.095	119	922882	2.148	ppbv	99
66) Benzyl Chloride	16.336	91	84763	1.690	ppbv #	92
67) sec-Butylbenzene	16.638	105	1273265	2.070	ppbv	99
69) p-Isopropyltoluene	16.998	119	1079368	2.232	ppbv	99
70) n-Butylbenzene	17.892	91	1068330	2.008	ppbv	98
71) 2-Chlorotoluene	14.802	91	746599	2.108	ppbv	100
72) 4-Ethyltoluene	15.198	105	780861	2.196	ppbv	100
73) 1,3,5-Trimethylbenzene	15.355	105	672409	2.100	ppbv	98
74) 1,2,4-Trimethylbenzene	16.111	105	753689	1.931	ppbv	97
75) 1,3-Dichlorobenzene	16.333	146	459460	2.066	ppbv	98
76) 1,4-Dichlorobenzene	16.474	146	440360	2.012	ppbv	98
77) 1,2-Dichlorobenzene	17.146	146	446072	2.014	ppbv	98
78) Hexachloro-1,3-Butadiene	22.638	225	337499m	2.014	ppbv	
79) Naphthalene	21.390	128	677067	2.787	ppbv	96
80) Naphthalene,2-methyl-	24.384	142	166967	2.806	ppbv	96
81) 1,2,4-Trichlorobenzene	21.149	180	355393m	2.240	ppbv	

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

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