

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111323\
 Data File : VL040841.D
 Acq On : 13 Nov 2023 14:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/15/2023
 Supervised By :Semsettin Yesilyurt 11/15/2023

Quant Time: Nov 13 15:32:34 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Mon Nov 13 15:18:50 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1180537	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.652	114	2954720	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2843385	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.761 95 2262487 10.690 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.748	85	3072945	14.593	ppbv	99
3) Chlorodifluoromethane	2.694	51	2426885	13.950	ppbv	100
4) Chloromethane	2.829	50	902704	13.275	ppbv	99
5) Vinyl Chloride	2.935	62	928911	13.212	ppbv	99
6) Bromomethane	3.134	94	347725	12.297	ppbv	94
7) Chloroethane	3.208	64	319678	14.042	ppbv	94
8) Dichlorotetrafluoroethane	2.874	85	2249110	14.226	ppbv	99
9) Propene	2.713	41	846320	13.335	ppbv	99
10) Heptane	7.571	43	2108687	13.166	ppbv	100
11) Trichlorofluoromethane	3.571	101	2430963	14.939	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.073	101	1717577	14.828	ppbv	100
13) Ethanol	3.256	45	159173	11.365	ppbv	92
14) Bromoethene	3.378	108	714518	14.575	ppbv	98
15) Acetone	3.478	43	1637616	13.495	ppbv	99
16) 1,3-Butadiene	2.999	39	901543	14.273	ppbv	99
17) tert-Butyl alcohol	3.887	59	1482955	12.653	ppbv	98
18) 1,1-Dichloroethene	3.887	96	772608	14.938	ppbv	97
19) Isopropyl Alcohol	3.587	45	1076031	14.122	ppbv #	98
20) Methylene Chloride	3.941	84	632785	12.434	ppbv	96
21) Allyl Chloride	4.002	41	1121277	14.181	ppbv	99
22) trans-1,2-Dichloroethene	4.449	96	1029779	18.391	ppbv	94
23) Vinyl Acetate	4.629	43	2455136	15.490	ppbv	100
24) 1,1-Dichloroethane	4.568	63	2063582	16.825	ppbv	99
25) Ethyl Acetate	5.205	43	3541894	13.365	ppbv	99
26) Hexane	5.214	57	1537436	12.738	ppbv	99
27) Carbon Disulfide	4.131	76	2054080	15.171	ppbv	98
28) Methyl tert-Butyl Ether	4.587	73	1461197	15.073	ppbv	100
29) Chloroform	5.276	83	2599394	14.508	ppbv	99
30) Cyclohexane	6.597	84	1326451	12.949	ppbv	100
31) cis-1,2-Dichloroethene	5.079	61	1648979	14.586	ppbv	97
32) 1,1,1-Trichloroethane	5.999	97	2609323	13.835	ppbv	100
34) 2-Butanone	4.787	43	2278603	16.157	ppbv	100
35) Carbon Tetrachloride	6.491	117	2793726	16.574	ppbv	99
36) Benzene	6.366	78	3283937	14.456	ppbv	99
37) 1,2-Dichloroethane	5.806	62	2038957	17.017	ppbv	100
38) Trichloroethene	7.285	130	1289632	12.867	ppbv	98
39) 1,2-Dichloropropane	7.066	63	1303562	14.680	ppbv	98
40) 1,4-Dioxane	7.275	88	528453	15.881	ppbv #	55
41) Tetrahydrofuran	5.552	42	1387318	15.083	ppbv	99
42) Bromodichloromethane	7.243	83	2925406	16.390	ppbv	99
43) Methyl Methacrylate	7.465	69	1379592	15.188	ppbv	98
44) 2,2,4-Trimethylpentane	7.320	57	5386934	14.015	ppbv	99
45) t-1,3-Dichloropropene	8.700	75	934913	13.721	ppbv	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.131	75	1130024	13.331	ppbv	98
47) 1,1,2-Trichloroethane	8.886	97	1391828	14.878	ppbv	98
48) Dibromochloromethane	9.700	129	2477607	15.729	ppbv	99
49) Bromoform	12.394	173	1956604	15.594	ppbv	99
50) 4-Methyl-2-Pentanone	8.169	43	3467974	15.132	ppbv	100
51) 2-Hexanone	9.539	43	2575144	14.877	ppbv #	100
52) Tetrachloroethene	10.603	164	1136448	12.457	ppbv	99
53) Toluene	9.211	91	3765460	13.971	ppbv	100
54) 1,2-Dibromoethane	9.996	107	1929240	14.835	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.494	131	1744212	14.898	ppbv	99
57) Chlorobenzene	11.513	112	2872882	14.032	ppbv	99
58) Ethyl Benzene	12.076	91	5092254	14.108	ppbv	100
59) m/p-Xylene	12.356	91	8511155m	28.537	ppbv	
60) o-Xylene	13.047	91	4034965	14.224	ppbv	99
61) Styrene	12.883	104	2190519	14.228	ppbv	99
62) Isopropylbenzene	14.015	105	5923546	13.641	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.031	83	2902261	13.643	ppbv	99
64) n-propylbenzene	14.899	120	1572831	13.641	ppbv	95
65) tert-Butylbenzene	16.073	119	5138060	13.180	ppbv	99
66) Benzyl Chloride	16.310	91	223617	6.809	ppbv #	98
67) sec-Butylbenzene	16.619	105	7157377	13.382	ppbv	99
69) p-Isopropyltoluene	16.979	119	5846564	13.140	ppbv	100
70) n-Butylbenzene	17.870	91	6120870	13.884	ppbv	100
71) 2-Chlorotoluene	14.783	91	4592325	14.028	ppbv	98
72) 4-Ethyltoluene	15.179	105	4680921	14.241	ppbv	99
73) 1,3,5-Trimethylbenzene	15.336	105	4028905	13.919	ppbv	99
74) 1,2,4-Trimethylbenzene	16.092	105	4374664	13.779	ppbv	98
75) 1,3-Dichlorobenzene	16.314	146	2530152	13.092	ppbv	99
76) 1,4-Dichlorobenzene	16.455	146	2477796	12.935	ppbv	99
77) 1,2-Dichlorobenzene	17.127	146	2416800	12.780	ppbv	100
78) Hexachloro-1,3-Butadiene	22.616	225	1367108	10.237	ppbv	99
79) Naphthalene	21.362	128	3045276	12.456	ppbv	99
80) Naphthalene,2-methyl-	24.358	142	519428	8.490	ppbv	96
81) 1,2,4-Trichlorobenzene	21.117	180	1533900	11.556	ppbv	100

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

