

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035387.D
 Acq On : 12 Aug 2020 15:59
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:43:57 PM

Quant Time: Aug 12 20:01:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 12 2020
 QLast Update : Wed Aug 12 15:19:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1326998	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3285999	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3266976m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2631172	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1857294	10.522	ppbv 98
3) Chlorodifluoromethane	2.98	51	2075530	13.702	ppbv 98
4) Chloromethane	3.13	50	1192905	13.910	ppbv 97
5) Vinyl Chloride	3.25	62	1129615	12.805	ppbv 100
6) Bromomethane	3.47	94	657433	12.165	ppbv 97
7) Chloroethane	3.55	64	412485	12.590	ppbv 99
8) Dichlorotetrafluoroethane	3.18	85	2284419	10.950	ppbv 100
9) Propene	3.01	41	1035572	19.185	ppbv 99
10) Heptane	8.14	43	2663871	19.321	ppbv 99
11) Trichlorofluoromethane	3.95	101	2570157	11.239	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1739700	10.644	ppbv 100
13) Ethanol	3.60	45	272802	14.654	ppbv 96
14) Bromoethene	3.74	108	816908	12.464	ppbv 100
15) Acetone	3.85	43	2039852	10.825	ppbv 100
16) 1,3-Butadiene	3.32	39	1084724	14.955	ppbv 100
17) tert-Butyl alcohol	4.29	59	2578907	14.911	ppbv 100
18) 1,1-Dichloroethene	4.29	96	823715	11.736	ppbv 98
19) Isopropyl Alcohol	3.97	45	1703349	14.260	ppbv 98
20) Methylene Chloride	4.34	84	776295	10.102	ppbv 97
21) Allyl Chloride	4.41	41	1504854	13.938	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	855644	12.573	ppbv 95
23) Vinyl Acetate	5.08	43	3489641	19.313	ppbv 99
24) 1,1-Dichloroethane	5.02	63	2357962	13.886	ppbv 100
25) Ethyl Acetate	5.69	43	4249795	14.843	ppbv 99
26) Hexane	5.70	57	1900259	15.300	ppbv 98
27) Carbon Disulfide	4.55	76	2259077	13.008	ppbv 99
28) Methyl tert-Butyl Ether	5.04	73	3188490	17.656	ppbv 100
29) Chloroform	5.76	83	2876802	13.436	ppbv 98
30) Cyclohexane	7.14	84	1643028	17.446	ppbv 98
31) cis-1,2-Dichloroethene	5.56	61	2017993	18.277	ppbv 98
32) 1,1,1-Trichloroethane	6.52	97	2932755	13.032	ppbv 100
34) 2-Butanone	5.25	43	2966110	18.332	ppbv 98
35) Carbon Tetrachloride	7.03	117	2921370	12.919	ppbv 97
36) Benzene	6.91	78	3907489	17.610	ppbv 99
37) 1,2-Dichloroethane	6.32	62	2308574	14.893	ppbv 99
38) Trichloroethene	7.85	130	1405068	13.727	ppbv 97
39) 1,2-Dichloropropane	7.63	63	1593036	17.734	ppbv 96
40) 1,4-Dioxane	7.85	88	609048	15.832	ppbv 95
41) Tetrahydrofuran	6.06	42	1807196	22.761	ppbv 99
42) Bromodichloromethane	7.81	83	3190397	15.326	ppbv 99
43) Methyl Methacrylate	8.03	69	1838244	19.692	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	6328070	16.053	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	2259580	23.334	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2504653	21.417	ppbv	96
47) 1,1,2-Trichloroethane	9.50	97	1645224	15.233	ppbv	98
48) Dibromochloromethane	10.33	129	2676502	15.128	ppbv	100
49) Bromoform	13.07	173	2273844	14.105	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	4350084	17.609	ppbv	99
51) 2-Hexanone	10.15	43	3766700	19.449	ppbv #	99
52) Tetrachloroethene	11.25	164	1292826	14.696	ppbv	97
53) Toluene	9.83	91	4528021	18.759	ppbv	98
54) 1,2-Dibromoethane	10.64	107	2547962	16.443	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1961043	12.717	ppbv	97
57) Chlorobenzene	12.18	112	3271455	13.299	ppbv	100
58) Ethyl Benzene	12.74	91	6059413	17.825	ppbv	96
59) m/p-Xylene	13.02	91	9689766m	30.611	ppbv	
60) o-Xylene	13.73	91	4745475	15.107	ppbv	99
61) Styrene	13.56	104	3810559	19.863	ppbv	99
62) Isopropylbenzene	14.70	105	7052754	14.912	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	3355283	12.521	ppbv	99
64) n-propylbenzene	15.59	120	1967637	15.480	ppbv	95
65) tert-Butylbenzene	16.78	119	6047416	13.963	ppbv	99
66) Benzyl Chloride	17.02	91	3267419	19.061	ppbv	100
67) sec-Butylbenzene	17.33	105	8575218	13.998	ppbv	98
69) p-Isopropyltoluene	17.69	119	7250526	14.518	ppbv	97
70) n-Butylbenzene	18.58	91	7886554	14.763	ppbv	99
71) 2-Chlorotoluene	15.48	91	5832148	16.833	ppbv	99
72) 4-Ethyltoluene	15.87	105	5903756	16.484	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	5525084	16.077	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	5402527	13.755	ppbv	96
75) 1,3-Dichlorobenzene	17.03	146	3131828	12.189	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	3275162	13.764	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	3184390	13.429	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	2466946	12.227	ppbv	99
79) Naphthalene	22.24	128	7020557	23.239	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	3473250	50.541	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	3268668	17.168	ppbv	99

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

