

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035397.D
 Acq On : 13 Aug 2020 7:56
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:44:11 PM

Quant Time: Aug 13 10:59:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 13 2020
 QLast Update : Wed Aug 12 20:32:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1403165	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3307074	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3187721m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2698563	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1502731	8.893	ppbv	99
3) Chlorodifluoromethane	2.98	51	1516054	9.293	ppbv	98
4) Chloromethane	3.13	50	840049	9.215	ppbv	99
5) Vinyl Chloride	3.25	62	815659	9.052	ppbv	97
6) Bromomethane	3.47	94	466378	9.334	ppbv	100
7) Chloroethane	3.55	64	290313	9.134	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1770059	9.024	ppbv	96
9) Propene	3.00	41	729732	8.635	ppbv	99
10) Heptane	8.13	43	1878421	8.581	ppbv	99
11) Trichlorofluoromethane	3.94	101	1912029	9.330	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1275508	9.146	ppbv	96
13) Ethanol	3.60	45	182751	6.595	ppbv	98
14) Bromoethene	3.73	108	586816	9.418	ppbv	99
15) Acetone	3.84	43	1438002	8.137	ppbv	100
16) 1,3-Butadiene	3.32	39	762169	8.399	ppbv	99
17) tert-Butyl alcohol	4.29	59	1841128	8.931	ppbv	99
18) 1,1-Dichloroethene	4.29	96	585617	9.166	ppbv	98
19) Isopropyl Alcohol	3.96	45	1213666	8.800	ppbv	98
20) Methylene Chloride	4.34	84	526243	7.885	ppbv	99
21) Allyl Chloride	4.41	41	1022442	8.811	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	599401	9.339	ppbv	94
23) Vinyl Acetate	5.07	43	2474985	8.772	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1700486	9.153	ppbv	100
25) Ethyl Acetate	5.68	43	3095850	8.487	ppbv	99
26) Hexane	5.69	57	1365652	8.556	ppbv	99
27) Carbon Disulfide	4.55	76	1579847	9.271	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	2305646	8.748	ppbv	99
29) Chloroform	5.75	83	2147409	9.427	ppbv	98
30) Cyclohexane	7.13	84	1188784	9.036	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1451512	9.171	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	2147303	8.642	ppbv	99
34) 2-Butanone	5.24	43	2119918	8.995	ppbv	99
35) Carbon Tetrachloride	7.02	117	2136034	9.292	ppbv	96
36) Benzene	6.90	78	2839581	8.954	ppbv	100
37) 1,2-Dichloroethane	6.31	62	1694968	9.629	ppbv	99
38) Trichloroethene	7.84	130	1014016	8.159	ppbv	96
39) 1,2-Dichloropropane	7.62	63	1132563	9.019	ppbv	98
40) 1,4-Dioxane	7.84	88	438256	8.569	ppbv	97
41) Tetrahydrofuran	6.05	42	1254496	8.922	ppbv	99
42) Bromodichloromethane	7.80	83	2387530	9.628	ppbv	99
43) Methyl Methacrylate	8.02	69	1307086	9.291	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4739152	8.687	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1566453	9.596	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1768459	9.276	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	1191583	9.356	ppbv	97
48) Dibromochloromethane	10.32	129	1914877	9.406	ppbv	100
49) Bromoform	13.06	173	1598490	9.578	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3127445	8.805	ppbv	99
51) 2-Hexanone	10.15	43	2662986	8.906	ppbv #	100
52) Tetrachloroethene	11.24	164	909677	8.090	ppbv	98
53) Toluene	9.82	91	3321317	8.823	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1821063	9.028	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.14	131	1400414	9.041	ppbv	96
57) Chlorobenzene	12.16	112	2427857	8.934	ppbv	98
58) Ethyl Benzene	12.73	91	4517103	8.966	ppbv	100
59) m/p-Xylene	13.01	91	7629150m	18.158	ppbv	
60) o-Xylene	13.71	91	3620247	8.899	ppbv	99
61) Styrene	13.55	104	2727182	9.080	ppbv	98
62) Isopropylbenzene	14.69	105	5292770	8.673	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	2555596	8.612	ppbv	99
64) n-propylbenzene	15.58	120	1426156	8.859	ppbv	93
65) tert-Butylbenzene	16.77	119	4549869	8.469	ppbv	97
66) Benzyl Chloride	17.01	91	2162909	8.914	ppbv	98
67) sec-Butylbenzene	17.32	105	6650813	8.588	ppbv	99
69) p-Isopropyltoluene	17.68	119	5533087	8.571	ppbv	98
70) n-Butylbenzene	18.58	91	6218322	8.700	ppbv	99
71) 2-Chlorotoluene	15.47	91	4417892	8.993	ppbv	97
72) 4-Ethyltoluene	15.86	105	4382318	8.825	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	4142155	8.896	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	4145066	8.464	ppbv	95
75) 1,3-Dichlorobenzene	17.02	146	2291966	8.576	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	2376707	8.658	ppbv	98
77) 1,2-Dichlorobenzene	17.84	146	2334727	8.665	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	1768299	7.959	ppbv	99
79) Naphthalene	22.23	128	5008892	8.213	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	2208158	7.774	ppbv	98
81) 1,2,4-Trichlorobenzene	21.96	180	2361884	8.181	ppbv	99

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

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