

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\
 Data File : VL035221.D
 Acq On : 21 Jul 2020 23:37
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/23/2020 2:59:57 PM

Quant Time: Jul 22 02:00:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 0
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1213548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2876570	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2874692	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2251628	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	1243058	7.309	ppbv	98
3) Chlorodifluoromethane	2.94	51	1252165	9.341	ppbv	100
4) Chloromethane	3.10	50	710018	9.398	ppbv	97
5) Vinyl Chloride	3.21	62	724292	8.971	ppbv	99
6) Bromomethane	3.43	94	457901	9.994	ppbv	97
7) Chloroethane	3.52	64	277388	9.719	ppbv	98
8) Dichlorotetrafluoroethane	3.14	85	1682439	9.026	ppbv	100
9) Propene	2.96	41	504924	9.967	ppbv	100
10) Heptane	8.13	43	1441042	11.080	ppbv	100
11) Trichlorofluoromethane	3.92	101	1804039	9.393	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1262421	9.360	ppbv	100
13) Ethanol	3.57	45	123232	7.641	ppbv	94
14) Bromoethene	3.70	108	548322	9.878	ppbv	100
15) Acetone	3.81	43	1354869	8.247	ppbv	98
16) 1,3-Butadiene	3.28	39	650788	10.319	ppbv	100
17) tert-Butyl alcohol	4.26	59	1528776	10.517	ppbv	99
18) 1,1-Dichloroethene	4.26	96	584800	9.792	ppbv	99
19) Isopropyl Alcohol	3.93	45	1009182	10.182	ppbv	99
20) Methylene Chloride	4.31	84	520113	7.276	ppbv	98
21) Allyl Chloride	4.38	41	951291	9.948	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	568071	9.528	ppbv	95
23) Vinyl Acetate	5.05	43	1836469	10.326	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1484075	9.717	ppbv	99
25) Ethyl Acetate	5.66	43	2536714	9.949	ppbv	100
26) Hexane	5.67	57	1124591	10.004	ppbv	99
27) Carbon Disulfide	4.52	76	1533221	9.767	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1748322	10.208	ppbv	100
29) Chloroform	5.74	83	1813288	9.621	ppbv	94
30) Cyclohexane	7.13	84	935710	11.249	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1118395	10.518	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1780298	9.425	ppbv	99
34) 2-Butanone	5.22	43	1549355	10.091	ppbv	99
35) Carbon Tetrachloride	7.02	117	1840676	9.858	ppbv	97
36) Benzene	6.89	78	2221113	10.669	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1406161	10.064	ppbv	99
38) Trichloroethene	7.84	130	893651	10.534	ppbv	97
39) 1,2-Dichloropropane	7.62	63	870179	10.510	ppbv	98
40) 1,4-Dioxane	7.83	88	325350	9.871	ppbv #	1
41) Tetrahydrofuran	6.03	42	849695	11.060	ppbv	99
42) Bromodichloromethane	7.80	83	1937250	10.383	ppbv	100
43) Methyl Methacrylate	8.02	69	1028315	11.684	ppbv	98

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44) 2,2,4-Trimethylpentane	7.87	57	3849817	10.713	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1139584	12.325	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1351101	12.326	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	955912	10.548	ppbv	97
48) Dibromochloromethane	10.32	129	1616215	10.961	ppbv	99
49) Bromoform	13.08	173	1459477	11.315	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2430381	11.030	ppbv	100
51) 2-Hexanone	10.15	43	1976605	11.764	ppbv #	100
52) Tetrachloroethene	11.25	164	812631	10.450	ppbv	95
53) Toluene	9.83	91	2605006	11.856	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1443519	10.733	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1254021	9.846	ppbv	98
57) Chlorobenzene	12.18	112	2052558	9.688	ppbv	98
58) Ethyl Benzene	12.74	91	3532588	11.118	ppbv	99
59) m/p-Xylene	13.02	91	6016744m	21.246	ppbv	
60) o-Xylene	13.73	91	3000261	10.619	ppbv	100
61) Styrene	13.56	104	2106475	12.066	ppbv	99
62) Isopropylbenzene	14.70	105	4407940	10.526	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	2189288	9.273	ppbv	99
64) n-propylbenzene	15.60	120	1177577	10.885	ppbv	99
65) tert-Butylbenzene	16.78	119	3936251	10.465	ppbv	100
66) Benzyl Chloride	17.03	91	1632309	12.181	ppbv	100
67) sec-Butylbenzene	17.33	105	5629895	10.267	ppbv	99
69) p-Isopropyltoluene	17.69	119	4633153	10.780	ppbv	100
70) n-Butylbenzene	18.59	91	4925222	10.809	ppbv	100
71) 2-Chlorotoluene	15.49	91	3457454	10.911	ppbv	100
72) 4-Ethyltoluene	15.88	105	3518227	11.052	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	3341056	10.883	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	3502532	10.324	ppbv	99
75) 1,3-Dichlorobenzene	17.04	146	2026598	9.433	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2034015	10.187	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1943013	10.045	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1426842	9.334	ppbv	99
79) Naphthalene	22.26	128	2903918	13.228	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	1079410	20.816	ppbv	98
81) 1,2,4-Trichlorobenzene	21.99	180	1620578	11.653	ppbv	99

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

