

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
 Data File : VL034925.D
 Acq On : 17 Mar 2020 21:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/18/2020 5:35:56 PM

Quant Time: Mar 18 08:48:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1044766	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2244015	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2386196m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1892000	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1687045	11.792	ppbv 99
3) Chlorodifluoromethane	2.94	51	1066704	9.140	ppbv 97
4) Chloromethane	3.10	50	642934	9.747	ppbv 99
5) Vinyl Chloride	3.22	62	588033	9.273	ppbv 92
6) Bromomethane	3.44	94	353647	9.580	ppbv 95
7) Chloroethane	3.52	64	217518	9.499	ppbv 96
8) Dichlorotetrafluoroethane	3.15	85	1339042	9.012	ppbv 96
9) Propene	2.97	41	482909	8.666	ppbv 99
10) Heptane	8.13	43	1300313	9.482	ppbv 99
11) Trichlorofluoromethane	3.92	101	1398865	9.190	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	985428	9.251	ppbv 95
13) Ethanol	3.57	45	129860	7.666	ppbv 91
14) Bromoethene	3.71	108	424890	9.235	ppbv 100
15) Acetone	3.82	43	1283800	9.481	ppbv 98
16) 1,3-Butadiene	3.29	39	567363	9.265	ppbv 99
17) tert-Butyl alcohol	4.27	59	920511	7.056	ppbv 97
18) 1,1-Dichloroethene	4.26	96	454781	9.640	ppbv 98
19) Isopropyl Alcohol	3.94	45	677611	7.924	ppbv # 42
20) Methylene Chloride	4.32	84	392305	9.163	ppbv 95
21) Allyl Chloride	4.38	41	793618	9.126	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	450802	9.419	ppbv 99
23) Vinyl Acetate	5.06	43	1830365	9.151	ppbv 98
24) 1,1-Dichloroethane	4.99	63	1216921	9.075	ppbv 100
25) Ethyl Acetate	5.67	43	2159679	8.952	ppbv 100
26) Hexane	5.67	57	947778	9.123	ppbv 100
27) Carbon Disulfide	4.53	76	1149907	9.755	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1412385	8.171	ppbv 100
29) Chloroform	5.74	83	1464074	9.237	ppbv 96
30) Cyclohexane	7.13	84	789985	9.114	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	960481	9.041	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	1389145	8.995	ppbv 97
34) 2-Butanone	5.23	43	1437322	9.638	ppbv 100
35) Carbon Tetrachloride	7.02	117	1436868	10.295	ppbv 98
36) Benzene	6.89	78	1920295	9.600	ppbv 98
37) 1,2-Dichloroethane	6.30	62	1150672	10.203	ppbv 99
38) Trichloroethene	7.84	130	707418	9.312	ppbv 94
39) 1,2-Dichloropropane	7.62	63	742883	9.374	ppbv 96
40) 1,4-Dioxane	7.83	88	265446	8.869	ppbv # 93
41) Tetrahydrofuran	6.04	42	800529	9.921	ppbv 100
42) Bromodichloromethane	7.80	83	1548443	10.074	ppbv 99
43) Methyl Methacrylate	8.02	69	873314	10.364	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3332949	9.861	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	985518	9.954	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1160256	9.862	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	778681	9.574	ppbv	96
48) Dibromochloromethane	10.33	129	1260995	9.574	ppbv	98
49) Bromoform	13.07	173	1066219	9.079	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2158844	10.057	ppbv	100
51) 2-Hexanone	10.15	43	1728814	9.910	ppbv #	100
52) Tetrachloroethene	11.24	164	657753	8.312	ppbv	99
53) Toluene	9.82	91	2203075	9.538	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1156952	9.450	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	943728m	8.804	ppbv	
57) Chlorobenzene	12.17	112	1615193	8.651	ppbv	95
58) Ethyl Benzene	12.73	91	2920675	9.038	ppbv	98
59) m/p-Xylene	13.02	91	4827501m	17.832	ppbv	
60) o-Xylene	13.72	91	2372747	8.976	ppbv	99
61) Styrene	13.55	104	1700020	9.164	ppbv	99
62) Isopropylbenzene	14.70	105	3489477	8.730	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	1649235	9.191	ppbv	99
64) n-propylbenzene	15.59	120	903447	8.685	ppbv	91
65) tert-Butylbenzene	16.78	119	2965064	8.486	ppbv	97
66) Benzyl Chloride	17.03	91	1253788	8.606	ppbv	96
67) sec-Butylbenzene	17.33	105	4312798	8.902	ppbv	98
69) p-Isopropyltoluene	17.69	119	3579880	8.812	ppbv	99
70) n-Butylbenzene	18.59	91	3831080	9.243	ppbv	99
71) 2-Chlorotoluene	15.48	91	2667608	8.813	ppbv	97
72) 4-Ethyltoluene	15.87	105	2811730	9.007	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2637772	9.027	ppbv	95
74) 1,2,4-Trimethylbenzene	16.80	105	2752212	9.142	ppbv	97
75) 1,3-Dichlorobenzene	17.03	146	1572432	8.662	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1576019	8.700	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1565692	8.898	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1373202	9.343	ppbv	99
79) Naphthalene	22.25	128	2706069	11.526	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1007803	16.425	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1540171m	10.325	ppbv	

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

