

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034086.D
 Acq On : 5 Aug 2019 12:43
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:05 PM

Quant Time: Aug 05 14:02:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 02 09:11:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1059072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2249719	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2413654m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1928914	9.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1113457	5.509	ppbv	97
3) Chlorodifluoromethane	2.98	51	1099231	8.805	ppbv	92
4) Chloromethane	3.14	50	726300	10.081	ppbv	95
5) Vinyl Chloride	3.26	62	656613	9.205	ppbv	93
6) Bromomethane	3.48	94	340426	6.383	ppbv	98
7) Chloroethane	3.57	64	236574	6.874	ppbv	90
8) Dichlorotetrafluoroethane	3.19	85	1330046	6.731	ppbv	96
9) Propene	3.01	41	651262	13.512	ppbv	97
10) Heptane	8.19	43	1694565	12.696	ppbv	88
11) Trichlorofluoromethane	3.97	101	1376353	6.800	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.51	101	974358	6.324	ppbv	93
13) Ethanol	3.62	45	125432	6.420	ppbv #	100
14) Bromoethene	3.75	108	452060	5.238	ppbv	99
15) Acetone	3.87	43	1223800	7.021	ppbv	98
16) 1,3-Butadiene	3.33	39	679226	10.650	ppbv	93
17) tert-Butyl alcohol	4.32	59	1332286	10.528	ppbv	99
18) 1,1-Dichloroethene	4.31	96	467093	6.925	ppbv	82
19) Isopropyl Alcohol	3.98	45	1019075	9.473	ppbv #	17
20) Methylene Chloride	4.37	84	404480	6.442	ppbv #	83
21) Allyl Chloride	4.44	41	967043	9.154	ppbv	94
22) trans-1,2-Dichloroethene	4.92	96	465038	6.765	ppbv	90
23) Vinyl Acetate	5.11	43	2270397	12.641	ppbv #	97
24) 1,1-Dichloroethane	5.05	63	1358179	9.004	ppbv	98
25) Ethyl Acetate	5.72	43	2641980	10.246	ppbv	98
26) Hexane	5.74	57	1120573	9.600	ppbv	95
27) Carbon Disulfide	4.58	76	1274086	7.331	ppbv #	91
28) Methyl tert-Butyl Ether	5.07	73	1915425	10.932	ppbv	95
29) Chloroform	5.80	83	1552448	7.644	ppbv	98
30) Cyclohexane	7.20	84	910486	9.781	ppbv #	74
31) cis-1,2-Dichloroethene	5.60	61	1138240	9.941	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	1528296	7.137	ppbv	99
34) 2-Butanone	5.28	43	1834125	14.233	ppbv	91
35) Carbon Tetrachloride	7.08	117	1511838	8.317	ppbv	98
36) Benzene	6.96	78	2216711	10.337	ppbv	95
37) 1,2-Dichloroethane	6.37	62	1253215	8.958	ppbv	99
38) Trichloroethene	7.91	130	775047	10.698	ppbv	96
39) 1,2-Dichloropropane	7.69	63	919905	11.859	ppbv	95
40) 1,4-Dioxane	7.90	88	335008	11.269	ppbv #	81
41) Tetrahydrofuran	6.10	42	1149442	16.640	ppbv #	82
42) Bromodichloromethane	7.87	83	1738088	9.856	ppbv	99
43) Methyl Methacrylate	8.09	69	948038	12.817	ppbv	82

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.94	57	3791233	11.840	ppbv	94
45) t-1,3-Dichloropropene	9.36	75	1274195	13.938	ppbv	95
46) cis-1,3-Dichloropropene	8.79	75	1439760	13.568	ppbv	89
47) 1,1,2-Trichloroethane	9.57	97	889097m	10.645	ppbv	
48) Dibromochloromethane	10.40	129	1464207	10.360	ppbv	99
49) Bromoform	13.15	173	1330884	10.871	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2725180	14.239	ppbv	95
51) 2-Hexanone	10.22	43	2347525	15.909	ppbv #	97
52) Tetrachloroethene	11.32	164	797668	12.748	ppbv	91
53) Toluene	9.89	91	2540712	11.921	ppbv	94
54) 1,2-Dibromoethane	10.70	107	1339174	10.804	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.23	131	968996	9.108	ppbv #	54
57) Chlorobenzene	12.25	112	1828249	9.276	ppbv	97
58) Ethyl Benzene	12.81	91	3369605	10.577	ppbv	94
59) m/p-Xylene	13.09	91	5315798m	18.675	ppbv	
60) o-Xylene	13.80	91	2663569	9.312	ppbv	96
61) Styrene	13.63	104	2234455	11.936	ppbv	99
62) Isopropylbenzene	14.77	105	3560486	9.483	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.78	83	1863177	8.277	ppbv	100
64) n-propylbenzene	15.67	120	972661	10.244	ppbv	81
65) tert-Butylbenzene	16.85	119	3131281	9.290	ppbv	98
66) Benzyl Chloride	17.10	91	2092422	12.695	ppbv	95
67) sec-Butylbenzene	17.41	105	4314873	8.935	ppbv	96
69) p-Isopropyltoluene	17.76	119	3629321	9.227	ppbv	97
70) n-Butylbenzene	18.66	91	3815725	8.892	ppbv	95
71) 2-Chlorotoluene	15.56	91	2859207	10.287	ppbv	96
72) 4-Ethyltoluene	15.94	105	3155658	9.845	ppbv	98
73) 1,3,5-Trimethylbenzene	16.10	105	3023738	9.580	ppbv	93
74) 1,2,4-Trimethylbenzene	16.87	105	3024903	8.661	ppbv #	88
75) 1,3-Dichlorobenzene	17.11	146	1764210	8.532	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1808295	9.261	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1760148	9.064	ppbv	99
78) Hexachloro-1,3-Butadiene	23.49	225	1269877	7.127	ppbv	99
79) Naphthalene	22.34	128	3156678	10.096	ppbv	95
80) Naphthalene, 2-methyl-	25.06	142	958200	7.985	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1750245	9.050	ppbv	100

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

