

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034067.D
 Acq On : 30 Jul 2019 18:24
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:49 AM

Quant Time: Jul 30 20:58:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 2019
 QLast Update : Tue Jul 30 06:55:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1385029	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4673654	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3393742m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2575031	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2043042	7.679 ppbv	97
3) Chlorodifluoromethane	2.99	51	1441064	9.014 ppbv	95
4) Chloromethane	3.14	50	766548	8.174 ppbv	97
5) Vinyl Chloride	3.26	62	817914	7.915 ppbv	99
6) Bromomethane	3.49	94	507154	7.796 ppbv	99
7) Chloroethane	3.57	64	307833	7.351 ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	2025876	7.645 ppbv	99
9) Propene	3.01	41	595560	10.376 ppbv	99
10) Heptane	8.20	43	1662402	10.619 ppbv	96
11) Trichlorofluoromethane	3.97	101	2018659	6.823 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1460784	7.340 ppbv	97
13) Ethanol	3.62	45	174946	7.658 ppbv	98
14) Bromoethene	3.76	108	644872	7.673 ppbv	99
15) Acetone	3.87	43	1444511	6.860 ppbv	98
16) 1,3-Butadiene	3.33	39	843614	10.317 ppbv	98
17) tert-Butyl alcohol	4.32	59	1487635	8.592 ppbv	99
18) 1,1-Dichloroethene	4.32	96	687012	7.620 ppbv	98
19) Isopropyl Alcohol	3.99	45	1218020	8.470 ppbv	# 99
20) Methylene Chloride	4.37	84	579281	7.193 ppbv	96
21) Allyl Chloride	4.44	41	1065719	8.019 ppbv	96
22) trans-1,2-Dichloroethene	4.92	96	675697	7.234 ppbv	94
23) Vinyl Acetate	5.12	43	2223204	9.859 ppbv	99
24) 1,1-Dichloroethane	5.05	63	1646594	8.220 ppbv	99
25) Ethyl Acetate	5.73	43	3076032	9.826 ppbv	99
26) Hexane	5.74	57	1410079	9.959 ppbv	99
27) Carbon Disulfide	4.58	76	1701714	7.718 ppbv	100
28) Methyl tert-Butyl Ether	5.07	73	2202596	9.140 ppbv	99
29) Chloroform	5.81	83	2234642	8.641 ppbv	99
30) Cyclohexane	7.20	84	1584002	11.010 ppbv	96
31) cis-1,2-Dichloroethene	5.60	61	1408818	10.209 ppbv	97
32) 1,1,1-Trichloroethane	6.58	97	2162714	7.968 ppbv	99
34) 2-Butanone	5.29	43	1736397	9.028 ppbv	98
35) Carbon Tetrachloride	7.09	117	3026282	9.175 ppbv	97
36) Benzene	6.96	78	2862715	9.201 ppbv	97
37) 1,2-Dichloroethane	6.37	62	1627391	7.612 ppbv	97
38) Trichloroethene	7.91	130	1142830	8.765 ppbv	98
39) 1,2-Dichloropropane	7.69	63	1056720	8.370 ppbv	98
40) 1,4-Dioxane	7.91	88	442783	8.881 ppbv	100
41) Tetrahydrofuran	6.11	42	1060214	10.852 ppbv	97
42) Bromodichloromethane	7.87	83	2458604	8.317 ppbv	99
43) Methyl Methacrylate	8.09	69	1140888	10.288 ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	4795015	9.283	ppbv	98
45) t-1,3-Dichloropropene	9.37	75	1404826	9.846	ppbv	92
46) cis-1,3-Dichloropropene	8.79	75	1648469	10.280	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	1205266	9.177	ppbv	95
48) Dibromochloromethane	10.40	129	2046869	8.163	ppbv	97
49) Bromoform	13.15	173	1780935	8.147	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	2851098	9.984	ppbv	99
51) 2-Hexanone	10.22	43	2341445	9.860	ppbv #	99
52) Tetrachloroethene	11.32	164	1094108	8.968	ppbv	96
53) Toluene	9.90	91	3393409	10.454	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1860011	9.542	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.23	131	1360959	8.974	ppbv	97
57) Chlorobenzene	12.25	112	2382077	9.060	ppbv	98
58) Ethyl Benzene	12.81	91	4341380	10.809	ppbv	100
59) m/p-Xylene	13.10	91	7028291m	19.250	ppbv	
60) o-Xylene	13.80	91	3479200	9.588	ppbv	99
61) Styrene	13.63	104	2571708	10.732	ppbv	98
62) Isopropylbenzene	14.77	105	4775046	9.822	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2478512	8.900	ppbv	100
64) n-propylbenzene	15.67	120	1229254	9.764	ppbv	99
65) tert-Butylbenzene	16.86	119	4215989	9.407	ppbv	100
66) Benzyl Chloride	17.10	91	1901713	8.456	ppbv	99
67) sec-Butylbenzene	17.41	105	6047034	9.492	ppbv	100
69) p-Isopropyltoluene	17.77	119	4964471	9.561	ppbv	100
70) n-Butylbenzene	18.66	91	5273272	9.594	ppbv	100
71) 2-Chlorotoluene	15.56	91	3685245	10.441	ppbv	99
72) 4-Ethyltoluene	15.95	105	4111576	10.020	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3927999	9.406	ppbv	96
74) 1,2,4-Trimethylbenzene	16.87	105	4031640	8.788	ppbv #	87
75) 1,3-Dichlorobenzene	17.11	146	2336821	8.165	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	2327766	8.617	ppbv	100
77) 1,2-Dichlorobenzene	17.93	146	2331471	8.848	ppbv	98
78) Hexachloro-1,3-Butadiene	23.50	225	2013230	8.305	ppbv	100
79) Naphthalene	22.34	128	3632009	9.083	ppbv	98
80) Naphthalene, 2-methyl-	25.07	142	1162876	8.340	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	2090722	8.110	ppbv	99

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

