

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033085.D
 Acq On : 5 Jan 2019 2:18
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:38 AM

Quant Time: Jan 05 03:23:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1115767	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2807129	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2770510m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2048744	9.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2445011	11.775 ppbv	98
3) Chlorodifluoromethane	3.01	51	1353095	10.713 ppbv	100
4) Chloromethane	3.17	50	740375	10.235 ppbv	100
5) Vinyl Chloride	3.29	62	759007	10.389 ppbv	99
6) Bromomethane	3.52	94	489660	9.866 ppbv	97
7) Chloroethane	3.60	64	275253	9.634 ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1895174	10.596 ppbv	100
9) Propene	3.04	41	550457	11.666 ppbv	100
10) Heptane	8.25	43	1238634	9.220 ppbv	100
11) Trichlorofluoromethane	4.01	101	1826420	7.960 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1244525	8.578 ppbv	100
13) Ethanol	3.65	45	143991	7.653 ppbv	96
14) Bromoethene	3.79	108	586373	9.151 ppbv	97
15) Acetone	3.90	43	1216198	7.875 ppbv	100
16) 1,3-Butadiene	3.37	39	604917	10.387 ppbv	95
17) tert-Butyl alcohol	4.36	59	86949m	2.658 ppbv	
18) 1,1-Dichloroethene	4.35	96	568501	8.507 ppbv	94
19) Isopropyl Alcohol	4.02	45	808938	7.609 ppbv	100
20) Methylene Chloride	4.41	84	489107	7.597 ppbv	99
21) Allyl Chloride	4.48	41	883139	9.228 ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	576288	8.699 ppbv	96
23) Vinyl Acetate	5.16	43	1743397	8.874 ppbv	99
24) 1,1-Dichloroethane	5.10	63	1450554	8.696 ppbv	99
25) Ethyl Acetate	5.77	43	2229454	8.540 ppbv	100
26) Hexane	5.79	57	1034100	8.413 ppbv	99
27) Carbon Disulfide	4.62	76	1396562	9.213 ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	1517724	7.910 ppbv	100
29) Chloroform	5.85	83	1736039	8.288 ppbv	99
30) Cyclohexane	7.25	84	904956	9.874 ppbv	100
31) cis-1,2-Dichloroethene	5.65	61	1072716	9.398 ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	1854866	8.725 ppbv	100
34) 2-Butanone	5.33	43	1462740	8.968 ppbv	99
35) Carbon Tetrachloride	7.14	117	1952814	8.099 ppbv	99
36) Benzene	7.01	78	2077922	9.037 ppbv	99
37) 1,2-Dichloroethane	6.42	62	1341249	8.354 ppbv	100
38) Trichloroethene	7.97	130	858835	9.079 ppbv	98
39) 1,2-Dichloropropane	7.74	63	772103	8.938 ppbv	100
40) 1,4-Dioxane	7.96	88	293107	8.939 ppbv	# 1
41) Tetrahydrofuran	6.15	42	793101	9.554 ppbv	98
42) Bromodichloromethane	7.92	83	1898106	8.606 ppbv	98
43) Methyl Methacrylate	8.14	69	837811	9.710 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3503054	8.996	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1025074	9.544	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1247662	10.178	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	863006	8.551	ppbv	98
48) Dibromochloromethane	10.46	129	1641358	9.205	ppbv	100
49) Bromoform	13.21	173	1396682	8.965	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2013807	9.744	ppbv	100
51) 2-Hexanone	10.28	43	1563400	10.455	ppbv	99
52) Tetrachloroethene	11.38	164	722552	8.890	ppbv	97
53) Toluene	9.96	91	2365940	9.601	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1342215	9.230	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1185595	8.282	ppbv	98
57) Chlorobenzene	12.31	112	1842022	7.965	ppbv	100
58) Ethyl Benzene	12.87	91	3210803	9.179	ppbv	97
59) m/p-Xylene	13.16	91	5261026m	16.258	ppbv	
60) o-Xylene	13.86	91	2621769	8.276	ppbv	99
61) Styrene	13.70	104	1779251	8.802	ppbv	99
62) Isopropylbenzene	14.84	105	3822866	8.480	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1907366	8.105	ppbv	100
64) n-propylbenzene	15.73	120	968976	8.461	ppbv	100
65) tert-Butylbenzene	16.92	119	3443653	8.624	ppbv	100
66) Benzyl Chloride	17.16	91	1618079	7.109	ppbv	100
67) sec-Butylbenzene	17.47	105	4751116	8.314	ppbv	100
69) p-Isopropyltoluene	17.83	119	3811813	8.218	ppbv	99
70) n-Butylbenzene	18.72	91	3799870	8.149	ppbv	100
71) 2-Chlorotoluene	15.63	91	2802512	8.765	ppbv	100
72) 4-Ethyltoluene	16.01	105	3001479	8.622	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	2937068	8.551	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	2982871	7.841	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	1645642	7.349	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1584937	7.770	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1608608	7.977	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1126465	7.273	ppbv	100
79) Naphthalene	22.42	128	2243593	7.002	ppbv	96
80) Naphthalene, 2-methyl-	25.12	142	542790	5.582	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1103557	7.129	ppbv	99

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

