

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051419\
 Data File : VL033698.D
 Acq On : 14 May 2019 19:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:41:21 AM

Quant Time: May 15 04:04:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	855341	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2089614	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2393441	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1850250	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1722728	8.587	ppbv 100
3) Chlorodifluoromethane	3.01	51	1077817	8.726	ppbv 98
4) Chloromethane	3.17	50	650980	10.137	ppbv 100
5) Vinyl Chloride	3.29	62	654388	10.481	ppbv 98
6) Bromomethane	3.51	94	416683	10.505	ppbv 96
7) Chloroethane	3.60	64	239472	10.565	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1661073	10.059	ppbv 100
9) Propene	3.04	41	469258	9.965	ppbv 98
10) Heptane	8.25	43	1399869	12.045	ppbv 99
11) Trichlorofluoromethane	4.00	101	1859136	9.924	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1249547	9.922	ppbv 99
13) Ethanol	3.65	45	117269	8.296	ppbv 95
14) Bromoethene	3.79	108	500045	10.073	ppbv 100
15) Acetone	3.90	43	1144695	8.996	ppbv 99
16) 1,3-Butadiene	3.36	39	555792	10.184	ppbv 97
17) tert-Butyl alcohol	4.35	59	1067670	11.047	ppbv 99
18) 1,1-Dichloroethene	4.35	96	566554	10.420	ppbv 99
19) Isopropyl Alcohol	4.02	45	811104	10.375	ppbv 99
20) Methylene Chloride	4.41	84	472100	9.771	ppbv 97
21) Allyl Chloride	4.48	41	820377	10.651	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	602025	11.030	ppbv 98
23) Vinyl Acetate	5.15	43	1874588	11.337	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1298347	10.380	ppbv 99
25) Ethyl Acetate	5.77	43	2243502	10.837	ppbv 100
26) Hexane	5.78	57	985290	11.072	ppbv 99
27) Carbon Disulfide	4.62	76	1393596	11.449	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1696209	11.317	ppbv 100
29) Chloroform	5.85	83	1644040	10.275	ppbv 98
30) Cyclohexane	7.25	84	856923	11.466	ppbv 100
31) cis-1,2-Dichloroethene	5.64	61	998532	11.279	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1705678	10.323	ppbv 99
34) 2-Butanone	5.33	43	1462730	10.931	ppbv 99
35) Carbon Tetrachloride	7.13	117	1857244	10.814	ppbv 99
36) Benzene	7.00	78	2100317	11.209	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1250295	9.563	ppbv 100
38) Trichloroethene	7.96	130	910391	13.245	ppbv 98
39) 1,2-Dichloropropane	7.73	63	840637	12.038	ppbv 98
40) 1,4-Dioxane	7.95	88	339993	12.182	ppbv 91
41) Tetrahydrofuran	6.15	42	825226	11.934	ppbv 100
42) Bromodichloromethane	7.92	83	1955978	11.587	ppbv 98
43) Methyl Methacrylate	8.13	69	894655	12.694	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3709148	11.577	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1207777	13.962	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1375476	12.740	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	924210	11.524	ppbv	97
48) Dibromochloromethane	10.45	129	1685791	12.400	ppbv	100
49) Bromoform	13.20	173	1462905	12.388	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2387663	11.784	ppbv	100
51) 2-Hexanone	10.27	43	1958023	12.474	ppbv #	99
52) Tetrachloroethene	11.37	164	845733	12.740	ppbv	96
53) Toluene	9.95	91	2593566	12.811	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1467952	12.152	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1128146	10.218	ppbv	98
57) Chlorobenzene	12.30	112	1993067	10.142	ppbv	100
58) Ethyl Benzene	12.86	91	3588440	11.497	ppbv	100
59) m/p-Xylene	13.15	91	5894639m	21.442	ppbv	
60) o-Xylene	13.85	91	2955261	10.622	ppbv	100
61) Styrene	13.68	104	2237482	12.077	ppbv	99
62) Isopropylbenzene	14.83	105	3958369	10.420	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1992041	9.838	ppbv	100
64) n-propylbenzene	15.72	120	1032765	10.520	ppbv	99
65) tert-Butylbenzene	16.90	119	3537473	10.151	ppbv	100
66) Benzyl Chloride	17.16	91	1964798	12.394	ppbv	100
67) sec-Butylbenzene	17.46	105	4963799	10.210	ppbv	100
69) p-Isopropyltoluene	17.81	119	4156367	10.375	ppbv	100
70) n-Butylbenzene	18.71	91	4332413	10.199	ppbv	100
71) 2-Chlorotoluene	15.61	91	2980834	10.621	ppbv	100
72) 4-Ethyltoluene	16.00	105	3487167	10.663	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3252137	10.285	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3431097	9.762	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	2010657	9.471	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2017058	10.012	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1914033	9.732	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1740771	11.168	ppbv	100
79) Naphthalene	22.41	128	3963864	12.352	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1925616	15.873	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2036606	10.924	ppbv	99

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

