

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033357.D
 Acq On : 16 Mar 2019 8:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:59:28 AM

Quant Time: Mar 18 08:00:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 18 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	742330	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1646405	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2021864m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1495026	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	903218	6.919	ppbv	97
3) Chlorodifluoromethane	3.01	51	845639	9.925	ppbv	98
4) Chloromethane	3.17	50	437726	9.487	ppbv	98
5) Vinyl Chloride	3.29	62	435604	9.152	ppbv	97
6) Bromomethane	3.52	94	280027	9.898	ppbv	99
7) Chloroethane	3.60	64	168648	10.140	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1095249	9.855	ppbv	99
9) Propene	3.04	41	355026	9.334	ppbv	99
10) Heptane	8.25	43	972077	10.304	ppbv	99
11) Trichlorofluoromethane	4.00	101	1313475	10.104	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	837714	9.713	ppbv	100
13) Ethanol	3.65	45	88828	4.899	ppbv	97
14) Bromoethene	3.79	108	351400	9.775	ppbv	99
15) Acetone	3.90	43	853754	7.399	ppbv	99
16) 1,3-Butadiene	3.36	39	378527	10.099	ppbv	97
17) tert-Butyl alcohol	4.35	59	158853	9.782	ppbv	98
18) 1,1-Dichloroethene	4.35	96	372145	9.437	ppbv	98
19) Isopropyl Alcohol	4.02	45	560973	10.220	ppbv	# 99
20) Methylene Chloride	4.41	84	314699	8.362	ppbv	96
21) Allyl Chloride	4.48	41	570004	10.183	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	383194	10.027	ppbv	96
23) Vinyl Acetate	5.16	43	1307719	9.794	ppbv	100
24) 1,1-Dichloroethane	5.09	63	908329	9.420	ppbv	98
25) Ethyl Acetate	5.77	43	1626011	9.693	ppbv	100
26) Hexane	5.78	57	715304	9.539	ppbv	99
27) Carbon Disulfide	4.62	76	918985	10.645	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1022559	9.180	ppbv	99
29) Chloroform	5.85	83	1211366	9.865	ppbv	99
30) Cyclohexane	7.25	84	594806	9.893	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	766114	10.218	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1201826	9.969	ppbv	99
34) 2-Butanone	5.33	43	1027977	9.507	ppbv	98
35) Carbon Tetrachloride	7.14	117	1289289	11.108	ppbv	99
36) Benzene	7.01	78	1465315	9.945	ppbv	99
37) 1,2-Dichloroethane	6.42	62	944624	10.139	ppbv	99
38) Trichloroethene	7.97	130	579603	10.395	ppbv	98
39) 1,2-Dichloropropane	7.74	63	557768	10.108	ppbv	97
40) 1,4-Dioxane	7.96	88	199341	10.259	ppbv	96
41) Tetrahydrofuran	6.15	42	597178	10.350	ppbv	99
42) Bromodichloromethane	7.92	83	1346473	10.779	ppbv	97
43) Methyl Methacrylate	8.14	69	611315	10.655	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2524907	10.346	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	834287	11.779	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	955876	11.461	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	629405	10.324	ppbv	95
48) Dibromochloromethane	10.46	129	1310619	12.818	ppbv	99
49) Bromoform	13.21	173	1187066	12.239	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1609955	10.541	ppbv	99
51) 2-Hexanone	10.27	43	1437090	12.196	ppbv #	99
52) Tetrachloroethene	11.38	164	644326	10.497	ppbv	98
53) Toluene	9.95	91	1995747	11.920	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1157424	11.230	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	928704	10.268	ppbv	95
57) Chlorobenzene	12.31	112	1556257	9.719	ppbv	98
58) Ethyl Benzene	12.87	91	2904558	10.155	ppbv	99
59) m/p-Xylene	13.16	91	4982441m	20.270	ppbv	
60) o-Xylene	13.86	91	2461098	10.263	ppbv	99
61) Styrene	13.69	104	1803342	10.741	ppbv	99
62) Isopropylbenzene	14.83	105	3415169	10.244	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1707833	9.852	ppbv	100
64) n-propylbenzene	15.73	120	872550	10.343	ppbv	99
65) tert-Butylbenzene	16.91	119	3049680	10.161	ppbv	99
66) Benzyl Chloride	17.16	91	1615124	13.022	ppbv	99
67) sec-Butylbenzene	17.46	105	4360911	10.254	ppbv	100
69) p-Isopropyltoluene	17.82	119	3637122	10.468	ppbv	100
70) n-Butylbenzene	18.72	91	3845078	10.378	ppbv	100
71) 2-Chlorotoluene	15.62	91	2642018	10.181	ppbv	100
72) 4-Ethyltoluene	16.01	105	2869327	10.537	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2769846	10.441	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2834583	10.089	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1632914	9.861	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1627576	10.151	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1612642	10.282	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	845889	8.996	ppbv	99
79) Naphthalene	22.42	128	2773764	10.245	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1421796	11.074	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1378413	9.984	ppbv	99

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

