

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033464.D
 Acq On : 27 Mar 2019 10:20
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:43 AM

Quant Time: Mar 28 07:28:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 07:28:53 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	849313	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1977141	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2118577m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1577096	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1115929	9.009	ppbv	98
3) Chlorodifluoromethane	3.01	51	923825	9.448	ppbv	99
4) Chloromethane	3.17	50	492188	9.512	ppbv	98
5) Vinyl Chloride	3.29	62	486459	9.569	ppbv	100
6) Bromomethane	3.51	94	310886	9.516	ppbv	95
7) Chloroethane	3.60	64	177032	9.357	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1219662	9.241	ppbv	100
9) Propene	3.03	41	390759	9.516	ppbv	97
10) Heptane	8.24	43	1050435	9.570	ppbv	100
11) Trichlorofluoromethane	4.00	101	1394375	9.134	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	964184	9.403	ppbv	100
13) Ethanol	3.64	45	113860	10.715	ppbv	66
14) Bromoethene	3.79	108	399520	9.769	ppbv	99
15) Acetone	3.90	43	877254	8.590	ppbv	98
16) 1,3-Butadiene	3.36	39	415468	10.257	ppbv	92
17) tert-Butyl alcohol	4.35	59	192899	10.273	ppbv	98
18) 1,1-Dichloroethene	4.35	96	427230	9.700	ppbv	95
19) Isopropyl Alcohol	4.02	45	680592	10.537	ppbv #	98
20) Methylene Chloride	4.41	84	381053	8.790	ppbv	93
21) Allyl Chloride	4.47	41	632020	9.790	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	437673	9.525	ppbv	97
23) Vinyl Acetate	5.15	43	1458382	10.033	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1030074	9.329	ppbv	99
25) Ethyl Acetate	5.76	43	1791936	9.458	ppbv	100
26) Hexane	5.78	57	801111	9.509	ppbv	98
27) Carbon Disulfide	4.62	76	1057549	10.556	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1193849	9.839	ppbv	100
29) Chloroform	5.85	83	1353297	9.371	ppbv	97
30) Cyclohexane	7.25	84	671174	10.071	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	826708	9.870	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1327694	9.655	ppbv	99
34) 2-Butanone	5.33	43	1150644	9.687	ppbv	100
35) Carbon Tetrachloride	7.13	117	1442742	10.302	ppbv	97
36) Benzene	7.00	78	1654521	9.973	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1055155	9.489	ppbv	100
38) Trichloroethene	7.96	130	661381	10.593	ppbv	96
39) 1,2-Dichloropropane	7.73	63	621941	9.570	ppbv	99
40) 1,4-Dioxane	7.96	88	249059m	10.745	ppbv	
41) Tetrahydrofuran	6.14	42	655495	10.033	ppbv	97
42) Bromodichloromethane	7.91	83	1483191	9.793	ppbv	99
43) Methyl Methacrylate	8.13	69	676007	10.036	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2759809	9.520	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	922520	11.154	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1047601	10.847	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	702328	9.518	ppbv	98
48) Dibromochloromethane	10.45	129	1287864	10.347	ppbv	100
49) Bromoform	13.20	173	1179887	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1712382	9.845	ppbv	99
51) 2-Hexanone	10.27	43	1367575	10.540	ppbv #	100
52) Tetrachloroethene	11.37	164	648752	10.365	ppbv	93
53) Toluene	9.95	91	1979877	10.270	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1142085	9.895	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	912417	9.397	ppbv	97
57) Chlorobenzene	12.30	112	1549004	9.416	ppbv	95
58) Ethyl Benzene	12.86	91	2852483	10.082	ppbv	99
59) m/p-Xylene	13.12	91	4848420m	19.186	ppbv	
60) o-Xylene	13.85	91	2381084	9.744	ppbv	99
61) Styrene	13.68	104	1774612	10.581	ppbv	99
62) Isopropylbenzene	14.82	105	3336790	9.643	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1629837	9.058	ppbv	100
64) n-propylbenzene	15.72	120	859159	9.785	ppbv	99
65) tert-Butylbenzene	16.91	119	3021578	9.909	ppbv	100
66) Benzyl Chloride	17.15	91	1639454	11.562	ppbv	99
67) sec-Butylbenzene	17.46	105	4285855	9.883	ppbv	99
69) p-Isopropyltoluene	17.81	119	3573841	10.122	ppbv	100
70) n-Butylbenzene	18.71	91	3790760	10.133	ppbv	100
71) 2-Chlorotoluene	15.62	91	2586328	9.829	ppbv	100
72) 4-Ethyltoluene	16.00	105	2780845	10.124	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2673861	10.172	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2796611	9.926	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	1648536	9.467	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1649876	9.724	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1597842	9.671	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	873838	7.990	ppbv	99
79) Naphthalene	22.41	128	2735453	11.342	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1186863	14.663	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1395188	10.429	ppbv	100

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

