

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033563.D
 Acq On : 10 Apr 2019 11:06
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:00:55 PM

Quant Time: Apr 11 03:50:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 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	956728	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2493541	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2580004m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1916350	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1447070	10.371	ppbv	100
3) Chlorodifluoromethane	3.01	51	888976	8.071	ppbv	98
4) Chloromethane	3.17	50	493868	8.473	ppbv	95
5) Vinyl Chloride	3.29	62	486154	8.489	ppbv	99
6) Bromomethane	3.51	94	317777	8.635	ppbv	99
7) Chloroethane	3.60	64	181731	8.527	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1216282	8.180	ppbv	97
9) Propene	3.04	41	416741	9.009	ppbv	98
10) Heptane	8.25	43	1065229	8.615	ppbv	100
11) Trichlorofluoromethane	4.00	101	1333948	7.757	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	931941	8.068	ppbv	97
13) Ethanol	3.64	45	110184	9.205	ppbv	66
14) Bromoethene	3.79	108	406551	8.825	ppbv	99
15) Acetone	3.90	43	867030	7.537	ppbv	98
16) 1,3-Butadiene	3.36	39	390030	8.548	ppbv	86
17) tert-Butyl alcohol	4.35	59	175379	8.292	ppbv	100
18) 1,1-Dichloroethene	4.35	96	430860	8.684	ppbv	94
19) Isopropyl Alcohol	4.02	45	640214	8.799	ppbv	99
20) Methylene Chloride	4.41	84	355961	7.290	ppbv	96
21) Allyl Chloride	4.48	41	633380	8.710	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	436511	8.433	ppbv	96
23) Vinyl Acetate	5.16	43	1496827	9.142	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1040688	8.367	ppbv	99
25) Ethyl Acetate	5.77	43	1758405	8.239	ppbv	99
26) Hexane	5.78	57	803733	8.469	ppbv	95
27) Carbon Disulfide	4.62	76	1034128	9.164	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1287401	9.419	ppbv	100
29) Chloroform	5.85	83	1343386	8.258	ppbv	100
30) Cyclohexane	7.25	84	719021	9.577	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	835856	8.859	ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	1349304	8.710	ppbv	98
34) 2-Butanone	5.33	43	1175020	7.843	ppbv	98
35) Carbon Tetrachloride	7.14	117	1397209	7.911	ppbv	100
36) Benzene	7.00	78	1755271	8.389	ppbv	96
37) 1,2-Dichloroethane	6.41	62	985936	7.030	ppbv	98
38) Trichloroethene	7.96	130	705353	8.958	ppbv	97
39) 1,2-Dichloropropane	7.74	63	654579	7.987	ppbv	96
40) 1,4-Dioxane	7.95	88	258116	8.830	ppbv #	1
41) Tetrahydrofuran	6.15	42	679408	8.245	ppbv	96
42) Bromodichloromethane	7.92	83	1491375	7.808	ppbv	100
43) Methyl Methacrylate	8.14	69	719670	8.471	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2853151	7.804	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	978378	9.380	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1088267	8.934	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	724365	7.783	ppbv	99
48) Dibromochloromethane	10.45	129	1301072	8.288	ppbv	99
49) Bromoform	13.20	173	1194929	7.968	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1678707	7.652	ppbv	97
51) 2-Hexanone	10.27	43	1369297	8.368	ppbv #	98
52) Tetrachloroethene	11.37	164	681558	8.634	ppbv	99
53) Toluene	9.95	91	2109531	8.677	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1179853	8.105	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	920583	7.785	ppbv #	54
57) Chlorobenzene	12.30	112	1563203	7.803	ppbv	94
58) Ethyl Benzene	12.87	91	2877345	8.351	ppbv	99
59) m/p-Xylene	13.15	91	4798406m	15.592	ppbv	
60) o-Xylene	13.85	91	2341359	7.868	ppbv	99
61) Styrene	13.69	104	1822119	8.921	ppbv	98
62) Isopropylbenzene	14.83	105	3364660	7.984	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1618499	7.386	ppbv	99
64) n-propylbenzene	15.73	120	878166	8.212	ppbv	95
65) tert-Butylbenzene	16.91	119	3025623	8.148	ppbv	97
66) Benzyl Chloride	17.16	91	1750513	10.137	ppbv	98
67) sec-Butylbenzene	17.46	105	4217697	7.986	ppbv	100
69) p-Isopropyltoluene	17.82	119	3514148	8.173	ppbv	98
70) n-Butylbenzene	18.72	91	3662597	8.039	ppbv	99
71) 2-Chlorotoluene	15.62	91	2580990	8.055	ppbv	98
72) 4-Ethyltoluene	16.00	105	2831271	8.464	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2690958	8.406	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	2750976	8.018	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1647143	7.767	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1659510	8.032	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1608658	7.995	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1240675	9.315	ppbv	99
79) Naphthalene	22.42	128	2851965	9.710	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1208944	12.265	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	1454895	8.930	ppbv	100

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

