

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032776.D
 Acq On : 20 Nov 2018 11:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:18:40 AM

Quant Time: Nov 21 04:13:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1599458	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4085426	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4129312	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2787468	9.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1698130	7.386	ppbv 97
3) Chlorodifluoromethane	3.02	51	1074334	8.472	ppbv 99
4) Chloromethane	3.17	50	606985	8.632	ppbv 99
5) Vinyl Chloride	3.30	62	625450	8.395	ppbv 99
6) Bromomethane	3.52	94	408039	8.952	ppbv 91
7) Chloroethane	3.61	64	238340	8.876	ppbv 99
8) Dichlorotetrafluoroethane	3.23	85	1520519	8.393	ppbv 96
9) Propene	3.04	41	481897	9.496	ppbv 99
10) Heptane	8.26	43	1922466	9.923	ppbv 100
11) Trichlorofluoromethane	4.01	101	2552206	11.779	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1461658	8.259	ppbv 94
13) Ethanol	3.66	45	119624	7.197	ppbv 95
14) Bromoethene	3.80	108	535209	9.115	ppbv 99
15) Acetone	3.91	43	1101069	7.538	ppbv 99
16) 1,3-Butadiene	3.37	39	539835	9.543	ppbv 94
17) tert-Butyl alcohol	4.36	59	517226	11.290	ppbv 100
18) 1,1-Dichloroethene	4.36	96	819661	9.418	ppbv 99
19) Isopropyl Alcohol	4.03	45	1396151	14.348	ppbv # 99
20) Methylene Chloride	4.42	84	678835	8.977	ppbv 99
21) Allyl Chloride	4.49	41	1257595	10.245	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	827741	9.740	ppbv 95
23) Vinyl Acetate	5.17	43	2618501	9.834	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1898222	8.967	ppbv 98
25) Ethyl Acetate	5.78	43	3353572	9.851	ppbv 100
26) Hexane	5.79	57	1531015	10.103	ppbv 99
27) Carbon Disulfide	4.63	76	2066113	10.752	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	2419571	10.012	ppbv 99
29) Chloroform	5.86	83	2552810	9.451	ppbv 99
30) Cyclohexane	7.26	84	1366275	10.308	ppbv 96
31) cis-1,2-Dichloroethene	5.65	61	1494243	9.807	ppbv 100
32) 1,1,1-Trichloroethane	6.63	97	2574896	8.697	ppbv 98
34) 2-Butanone	5.34	43	2074161	9.789	ppbv 99
35) Carbon Tetrachloride	7.15	117	2809989	8.556	ppbv 99
36) Benzene	7.02	78	3206625	9.857	ppbv 100
37) 1,2-Dichloroethane	6.43	62	1903089	8.690	ppbv 98
38) Trichloroethene	7.97	130	1294205	9.830	ppbv 99
39) 1,2-Dichloropropane	7.75	63	1190117	9.601	ppbv 98
40) 1,4-Dioxane	7.97	88	448911	10.140	ppbv 85
41) Tetrahydrofuran	6.16	42	1272735	10.471	ppbv 99
42) Bromodichloromethane	7.93	83	2748830	9.259	ppbv 98
43) Methyl Methacrylate	8.15	69	1255443	10.337	ppbv 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032776.D
 Acq On : 20 Nov 2018 11:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:18:40 AM

Quant Time: Nov 21 04:13:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5271201	9.696	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1885821	11.571	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	2154744	10.943	ppbv	97
47) 1,1,2-Trichloroethane	9.63	97	1437383	9.807	ppbv	98
48) Dibromochloromethane	10.46	129	2470554	9.917	ppbv	100
49) Bromoform	13.22	173	2112202	10.267	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3264231	9.863	ppbv	98
51) 2-Hexanone	10.28	43	2307626	10.823	ppbv #	99
52) Tetrachloroethene	11.39	164	1181510	10.440	ppbv	97
53) Toluene	9.96	91	3762499	11.086	ppbv	100
54) 1,2-Dibromoethane	10.78	107	2067443	9.979	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1707312	8.865	ppbv	100
57) Chlorobenzene	12.32	112	2849907	9.016	ppbv	97
58) Ethyl Benzene	12.88	91	5023483	10.108	ppbv	97
59) m/p-Xylene	13.16	91	8340555m	18.853	ppbv	
60) o-Xylene	13.87	91	4015118	9.026	ppbv	98
61) Styrene	13.70	104	3115827	10.760	ppbv	98
62) Isopropylbenzene	14.84	105	5823856	9.686	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2692174	7.764	ppbv	99
64) n-propylbenzene	15.73	120	1484074	9.384	ppbv	95
65) tert-Butylbenzene	16.92	119	5068063	9.403	ppbv	97
66) Benzyl Chloride	17.17	91	3047325	10.227	ppbv	99
67) sec-Butylbenzene	17.47	105	7407731	9.537	ppbv	99
69) p-Isopropyltoluene	17.83	119	5889126	9.535	ppbv	98
70) n-Butylbenzene	18.73	91	5830961	9.298	ppbv	99
71) 2-Chlorotoluene	15.63	91	4259871	9.500	ppbv	98
72) 4-Ethyltoluene	16.01	105	4738523	9.719	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	4738523	9.940	ppbv #	76
74) 1,2,4-Trimethylbenzene	16.94	105	4494679	8.811	ppbv	93
75) 1,3-Dichlorobenzene	17.18	146	2596712	8.874	ppbv	98
76) 1,4-Dichlorobenzene	17.32	146	2691803	9.848	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2503287	9.247	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1701354	11.645	ppbv	99
79) Naphthalene	22.43	128	3978389	11.872	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1437851	17.131	ppbv	97
81) 1,2,4-Trichlorobenzene	22.15	180	1984377	11.792	ppbv	99

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

