

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032597.D
 Acq On : 4 Oct 2018 12:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/4/2018 7:07:11 PM

Quant Time: Oct 04 12:25:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1266885	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2956070	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3193693m	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2287366	9.50	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	948205	8.092	ppbv	100
3) Chlorodifluoromethane	3.03	51	1379182	13.091	ppbv	95
4) Chloromethane	3.18	50	571160	9.297	ppbv	97
5) Vinyl Chloride	3.31	62	568281	9.155	ppbv	98
6) Bromomethane	3.53	94	352438	10.382	ppbv	99
7) Chloroethane	3.62	64	213295	9.644	ppbv	97
8) Dichlorotetrafluoroethane	3.24	85	1332828	10.410	ppbv	97
9) Propene	3.05	41	410403	8.978	ppbv	98
10) Heptane	8.27	43	1740613	10.382	ppbv	97
11) Trichlorofluoromethane	4.02	101	1526628	10.959	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1081276	9.496	ppbv	99
13) Ethanol	3.66	45	135037	9.828	ppbv	96
14) Bromoethene	3.80	108	445005	11.014	ppbv	99
15) Acetone	3.92	43	1311154	11.791	ppbv	99
16) 1,3-Butadiene	3.38	39	432394	9.588	ppbv	96
17) tert-Butyl alcohol	4.37	59	124705	8.924	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	473824	8.885	ppbv	99
19) Isopropyl Alcohol	4.04	45	842326	10.875	ppbv	99
20) Methylene Chloride	4.43	84	423173	7.858	ppbv	98
21) Allyl Chloride	4.50	41	823954	9.066	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	505897	10.066	ppbv	95
23) Vinyl Acetate	5.17	43	1994449	10.150	ppbv	99
24) 1,1-Dichloroethane	5.11	63	1624076	9.925	ppbv	100
25) Ethyl Acetate	5.79	43	2717014	10.069	ppbv	99
26) Hexane	5.80	57	1282943	10.526	ppbv	99
27) Carbon Disulfide	4.64	76	1383758	10.561	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	1705205	11.231	ppbv	97
29) Chloroform	5.88	83	2033280	10.872	ppbv	99
30) Cyclohexane	7.27	84	1102598	11.110	ppbv	95
31) cis-1,2-Dichloroethene	5.66	61	1225933	10.561	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	2058536	10.329	ppbv	98
34) 2-Butanone	5.35	43	1507401	8.563	ppbv	98
35) Carbon Tetrachloride	7.16	117	2138349	10.410	ppbv	99
36) Benzene	7.03	78	2597808	10.874	ppbv	98
37) 1,2-Dichloroethane	6.44	62	1619140	11.246	ppbv	98
38) Trichloroethene	7.99	130	1038367	11.356	ppbv	99
39) 1,2-Dichloropropane	7.76	63	1041047	9.670	ppbv	97
40) 1,4-Dioxane	7.98	88	378297	11.460	ppbv	77
41) Tetrahydrofuran	6.17	42	868928	9.086	ppbv	94
42) Bromodichloromethane	7.95	83	2408958	11.168	ppbv	100
43) Methyl Methacrylate	8.16	69	1123722	11.260	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032597.D
 Acq On : 4 Oct 2018 12:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/4/2018 7:07:11 PM

Quant Time: Oct 04 12:25:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	4908554	10.513	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	1377266	11.094	ppbv	98
46) cis-1,3-Dichloropropene	8.87	75	1708968	11.737	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1102997	9.225	ppbv	99
48) Dibromochloromethane	10.48	129	2098203	11.160	ppbv	99
49) Bromoform	13.24	173	1634070	11.374	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	2775430	10.030	ppbv	99
51) 2-Hexanone	10.30	43	2381211	10.405	ppbv #	100
52) Tetrachloroethene	11.41	164	933265	11.220	ppbv	98
53) Toluene	9.98	91	3336826	11.462	ppbv	100
54) 1,2-Dibromoethane	10.79	107	1857572	10.922	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.31	131	1518034	10.574	ppbv #	59
57) Chlorobenzene	12.34	112	2542825	9.884	ppbv	98
58) Ethyl Benzene	12.90	91	4210590	10.869	ppbv	97
59) m/p-Xylene	13.18	91	7074375m	20.524	ppbv	
60) o-Xylene	13.88	91	3488536	10.395	ppbv	100
61) Styrene	13.71	104	2470893	11.256	ppbv	99
62) Isopropylbenzene	14.86	105	4870597	10.263	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2637543	8.847	ppbv	99
64) n-propylbenzene	15.75	120	1252819	10.275	ppbv	94
65) tert-Butylbenzene	16.94	119	4140240	10.178	ppbv	98
66) Benzyl Chloride	17.19	91	2520657	10.752	ppbv	100
67) sec-Butylbenzene	17.49	105	6130373	10.137	ppbv	99
69) p-Isopropyltoluene	17.85	119	4870090	10.426	ppbv	99
70) n-Butylbenzene	18.75	91	5325695	10.438	ppbv	99
71) 2-Chlorotoluene	15.65	91	3829906	10.596	ppbv	100
72) 4-Ethyltoluene	16.03	105	3975432	10.914	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	3803135	10.744	ppbv	96
74) 1,2,4-Trimethylbenzene	16.96	105	3872847	10.161	ppbv #	91
75) 1,3-Dichlorobenzene	17.20	146	2155181	9.164	ppbv	100
76) 1,4-Dichlorobenzene	17.34	146	2144534	9.959	ppbv	100
77) 1,2-Dichlorobenzene	18.02	146	2142721	9.688	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	1273746	15.344	ppbv	100
79) Naphthalene	22.45	128	3199375	11.639	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1010758	15.662	ppbv	99
81) 1,2,4-Trichlorobenzene	22.17	180	1535112	10.896	ppbv	99

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

