

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032920.D
 Acq On : 7 Dec 2018 3:39
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:07:54 AM

Quant Time: Dec 07 05:59:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 05:59:03 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1226908	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3093931	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3273055m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2346668	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1553872	9.237	ppbv	100
3) Chlorodifluoromethane	3.02	51	859166	8.977	ppbv	100
4) Chloromethane	3.17	50	469988	8.331	ppbv	100
5) Vinyl Chloride	3.30	62	490881	8.882	ppbv	100
6) Bromomethane	3.52	94	326015	9.099	ppbv	100
7) Chloroethane	3.61	64	186233	8.697	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1263171	9.224	ppbv	100
9) Propene	3.04	41	339186	8.854	ppbv	100
10) Heptane	8.25	43	1419585	9.742	ppbv	100
11) Trichlorofluoromethane	4.01	101	1454979	8.734	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1192080	9.414	ppbv	100
13) Ethanol	3.65	45	84593	6.523	ppbv	99
14) Bromoethene	3.79	108	435075	9.387	ppbv	100
15) Acetone	3.91	43	891713	8.143	ppbv	100
16) 1,3-Butadiene	3.37	39	408461	9.344	ppbv	100
17) tert-Butyl alcohol	4.36	59	263534m	8.665	ppbv	100
18) 1,1-Dichloroethene	4.36	96	466871	8.487	ppbv	100
19) Isopropyl Alcohol	4.03	45	619049	7.816	ppbv	100
20) Methylene Chloride	4.42	84	466128	7.574	ppbv	100
21) Allyl Chloride	4.48	41	847489	10.493	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	572482	8.616	ppbv	100
23) Vinyl Acetate	5.16	43	1723497	8.351	ppbv	100
24) 1,1-Dichloroethane	5.10	63	1368077	8.614	ppbv	100
25) Ethyl Acetate	5.78	43	2448926	9.477	ppbv	100
26) Hexane	5.79	57	1147000	9.455	ppbv	100
27) Carbon Disulfide	4.62	76	1400787	9.129	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	1692954	8.709	ppbv	100
29) Chloroform	5.86	83	1973937	9.797	ppbv	100
30) Cyclohexane	7.25	84	971489	9.808	ppbv	100
31) cis-1,2-Dichloroethene	5.65	61	1068934	9.684	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	2041518	9.052	ppbv	100
34) 2-Butanone	5.34	43	1346861	8.793	ppbv	100
35) Carbon Tetrachloride	7.14	117	2211230	9.610	ppbv	100
36) Benzene	7.01	78	2295189	9.470	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1537903	9.868	ppbv	100
38) Trichloroethene	7.97	130	978646	10.136	ppbv	100
39) 1,2-Dichloropropane	7.74	63	857825	9.655	ppbv	100
40) 1,4-Dioxane	7.97	88	303387	9.040	ppbv #	100
41) Tetrahydrofuran	6.16	42	882466	10.120	ppbv	100
42) Bromodichloromethane	7.93	83	2151148	9.926	ppbv	100
43) Methyl Methacrylate	8.15	69	940016	10.493	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032920.D
 Acq On : 7 Dec 2018 3:39
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:07:54 AM

Quant Time: Dec 07 05:59:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 05:59:03 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3955297	10.003	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1295831	11.011	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1462101	10.956	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	963174	9.173	ppbv	100
48) Dibromochloromethane	10.46	129	1845117	9.512	ppbv	100
49) Bromoform	13.21	173	1575449	9.677	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2227590	9.944	ppbv	100
51) 2-Hexanone	10.28	43	1723265	10.402	ppbv #	100
52) Tetrachloroethene	11.38	164	848007	9.349	ppbv	100
53) Toluene	9.96	91	2738781	9.971	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1546413	9.874	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1323794	8.952	ppbv	100
57) Chlorobenzene	12.31	112	2106798	8.621	ppbv	100
58) Ethyl Benzene	12.88	91	3698657	9.914	ppbv	100
59) m/p-Xylene	13.16	91	6288759m	18.675	ppbv	
60) o-Xylene	13.86	91	3100080	9.424	ppbv	100
61) Styrene	13.70	104	2431566	11.067	ppbv	100
62) Isopropylbenzene	14.84	105	4428829	9.487	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2117797	8.540	ppbv	100
64) n-propylbenzene	15.73	120	1196982	10.170	ppbv	100
65) tert-Butylbenzene	16.92	119	4393574	10.971	ppbv	100
66) Benzyl Chloride	17.17	91	2537873	11.953	ppbv	100
67) sec-Butylbenzene	17.47	105	6156675	10.843	ppbv	100
69) p-Isopropyltoluene	17.83	119	5029138	11.144	ppbv	100
70) n-Butylbenzene	18.73	91	4747528	10.692	ppbv	100
71) 2-Chlorotoluene	15.63	91	3508109	10.403	ppbv	100
72) 4-Ethyltoluene	16.01	105	3794729	10.934	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	3459672	10.347	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3941834	10.837	ppbv	100
75) 1,3-Dichlorobenzene	17.18	146	2192604	10.294	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2165977	10.856	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2101894	10.466	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	930636	7.335	ppbv	100
79) Naphthalene	22.42	128	2725041	12.673	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	721544	15.012	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1348433	11.892	ppbv	100

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

