

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032872.D
 Acq On : 1 Dec 2018 6:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:17:23 PM

Quant Time: Dec 03 00:32:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 1
 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	1357733	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3429059	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3469707	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2523754	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1724508	8.836	ppbv	99
3) Chlorodifluoromethane	3.02	51	1024700	9.520	ppbv	99
4) Chloromethane	3.18	50	586964	9.834	ppbv	98
5) Vinyl Chloride	3.30	62	599386	9.477	ppbv	98
6) Bromomethane	3.52	94	541366	13.992	ppbv	90
7) Chloroethane	3.61	64	320342	14.053	ppbv	93
8) Dichlorotetrafluoroethane	3.23	85	1458335	9.482	ppbv	96
9) Propene	3.04	41	458611	10.646	ppbv	99
10) Heptane	8.25	43	1788600	10.876	ppbv	99
11) Trichlorofluoromethane	4.01	101	2185760	11.884	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1420742	9.457	ppbv	95
13) Ethanol	3.66	45	150500	10.667	ppbv	100
14) Bromoethene	3.80	108	713653	14.318	ppbv	100
15) Acetone	3.91	43	1481501	11.948	ppbv	99
16) 1,3-Butadiene	3.37	39	476142	9.916	ppbv	88
17) tert-Butyl alcohol	4.37	59	448459	11.532	ppbv	100
18) 1,1-Dichloroethene	4.36	96	784847	10.624	ppbv	96
19) Isopropyl Alcohol	4.03	45	1047392	12.680	ppbv	99
20) Methylene Chloride	4.42	84	644273	10.037	ppbv	99
21) Allyl Chloride	4.49	41	1028032	9.866	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	767212	10.635	ppbv	96
23) Vinyl Acetate	5.16	43	2556016	11.309	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1818684	10.121	ppbv	98
25) Ethyl Acetate	5.78	43	3103080	10.738	ppbv	100
26) Hexane	5.79	57	1429883	11.115	ppbv	99
27) Carbon Disulfide	4.63	76	1963357	12.036	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2377321	11.588	ppbv	99
29) Chloroform	5.86	83	2362107	10.302	ppbv	95
30) Cyclohexane	7.26	84	1257042	11.172	ppbv	95
31) cis-1,2-Dichloroethene	5.65	61	1418720	10.969	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2409117	9.586	ppbv	99
34) 2-Butanone	5.34	43	1924746	10.822	ppbv	99
35) Carbon Tetrachloride	7.15	117	2592000	9.403	ppbv	99
36) Benzene	7.02	78	2960814	10.843	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1797004	9.776	ppbv	98
38) Trichloroethene	7.97	130	1191967	10.786	ppbv	100
39) 1,2-Dichloropropane	7.75	63	1100127	10.574	ppbv	95
40) 1,4-Dioxane	7.97	88	390510	10.509	ppbv	93
41) Tetrahydrofuran	6.16	42	1160249	11.373	ppbv	99
42) Bromodichloromethane	7.93	83	2484190	9.970	ppbv	100
43) Methyl Methacrylate	8.15	69	1145497	11.237	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032872.D
 Acq On : 1 Dec 2018 6:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:17:23 PM

Quant Time: Dec 03 00:32:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 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	4794005	10.506	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1710686	12.506	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1826998	11.055	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1253191	10.187	ppbv	96
48) Dibromochloromethane	10.46	129	2182276	10.437	ppbv	99
49) Bromoform	13.21	173	1751206	10.141	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2787815	10.036	ppbv	99
51) 2-Hexanone	10.28	43	2099737	11.733	ppbv	98
52) Tetrachloroethene	11.38	164	1062632	11.187	ppbv	95
53) Toluene	9.96	91	3395981	11.921	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1881613	10.820	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1537660	9.502	ppbv	98
57) Chlorobenzene	12.31	112	2570463	9.678	ppbv	97
58) Ethyl Benzene	12.88	91	4582002	10.973	ppbv	98
59) m/p-Xylene	13.16	91	7821392m	21.041	ppbv	
60) o-Xylene	13.86	91	3597792	9.626	ppbv	99
61) Styrene	13.70	104	2783021	11.438	ppbv	98
62) Isopropylbenzene	14.84	105	5156700	10.207	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2361501	8.105	ppbv	99
64) n-propylbenzene	15.73	120	1317994	9.918	ppbv	95
65) tert-Butylbenzene	16.92	119	4456387	9.840	ppbv	98
66) Benzyl Chloride	17.17	91	2502468	9.995	ppbv	99
67) sec-Butylbenzene	17.47	105	6239440	9.560	ppbv	100
69) p-Isopropyltoluene	17.83	119	5254782	10.126	ppbv	98
70) n-Butylbenzene	18.73	91	5273525	10.008	ppbv	100
71) 2-Chlorotoluene	15.63	91	3763581	9.989	ppbv	98
72) 4-Ethyltoluene	16.01	105	4144163	10.115	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3922626	9.793	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3990465	9.310	ppbv	94
75) 1,3-Dichlorobenzene	17.18	146	2286233	9.299	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2244307	9.772	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2222463	9.771	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1691110	13.776	ppbv	99
79) Naphthalene	22.42	128	3945006	14.010	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1084284	15.375	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1887616	13.349	ppbv	99

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

