

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033262.D
 Acq On : 8 Mar 2019 16:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:19 AM

Quant Time: Mar 08 18:27:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 18:27:13 2019
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1032919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2389318	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2543188	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1925788	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2231020	15.290	ppbv 100
3) Chlorodifluoromethane	3.01	51	1400993	11.852	ppbv 99
4) Chloromethane	3.17	50	763368	12.544	ppbv 96
5) Vinyl Chloride	3.29	62	737844	10.813	ppbv 97
6) Bromomethane	3.52	94	460565	11.802	ppbv 99
7) Chloroethane	3.60	64	282545	12.392	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1807676	12.533	ppbv 100
9) Propene	3.04	41	632724	12.011	ppbv 98
10) Heptane	8.25	43	1960261	13.677	ppbv 99
11) Trichlorofluoromethane	4.00	101	2095929	12.233	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1365437	12.293	ppbv 99
13) Ethanol	3.65	45	119863	7.610	ppbv 100
14) Bromoethene	3.79	108	601039	12.844	ppbv 99
15) Acetone	3.90	43	1393285	10.482	ppbv 100
16) 1,3-Butadiene	3.36	39	639792	12.053	ppbv 92
17) tert-Butyl alcohol	4.36	59	225580	10.413	ppbv 100
18) 1,1-Dichloroethene	4.35	96	620619	12.549	ppbv 94
19) Isopropyl Alcohol	4.02	45	788004	9.972	ppbv 100
20) Methylene Chloride	4.41	84	544812	10.815	ppbv 97
21) Allyl Chloride	4.48	41	975474	13.150	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	652038	12.916	ppbv 97
23) Vinyl Acetate	5.16	43	2347988	11.975	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1589871	11.373	ppbv 100
25) Ethyl Acetate	5.77	43	3156130	12.951	ppbv 100
26) Hexane	5.78	57	1443706	12.673	ppbv 99
27) Carbon Disulfide	4.62	76	1583703	14.422	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1830849	11.653	ppbv 100
29) Chloroform	5.85	83	2338702	13.200	ppbv 96
30) Cyclohexane	7.25	84	1221586	14.322	ppbv 97
31) cis-1,2-Dichloroethene	5.64	61	1580611	14.365	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	2386866	13.887	ppbv 99
34) 2-Butanone	5.33	43	1845788	11.149	ppbv 100
35) Carbon Tetrachloride	7.13	117	2511118m	13.895	ppbv
36) Benzene	7.00	78	3048887	13.596	ppbv 98
37) 1,2-Dichloroethane	6.42	62	1945544	13.938	ppbv 99
38) Trichloroethene	7.96	130	1114787	13.163	ppbv 94
39) 1,2-Dichloropropane	7.74	63	1163617	13.290	ppbv 97
40) 1,4-Dioxane	7.96	88	378623m	11.656	ppbv
41) Tetrahydrofuran	6.15	42	1240869	13.643	ppbv 99
42) Bromodichloromethane	7.92	83	2668350	13.519	ppbv 95
43) Methyl Methacrylate	8.14	69	1274904	14.053	ppbv 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033262.D
 Acq On : 8 Mar 2019 16:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:19 AM

Quant Time: Mar 08 18:27:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 18:27:13 2019
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4996153	12.599	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1674569	15.254	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1891917	14.448	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1213464	12.878	ppbv	94
48) Dibromochloromethane	10.45	129	2118774	13.882	ppbv	100
49) Bromoform	13.20	173	1851248	15.188	ppbv	97
50) 4-Methyl-2-Pentanone	8.87	43	3126702	12.769	ppbv	100
51) 2-Hexanone	10.27	43	2449602	13.374	ppbv #	100
52) Tetrachloroethene	11.37	164	1106876	13.244	ppbv	99
53) Toluene	9.95	91	3468098	13.376	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1913238m	13.366	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	1474625	13.357	ppbv	89
57) Chlorobenzene	12.30	112	2481446	12.532	ppbv	98
58) Ethyl Benzene	12.87	91	4828693	13.727	ppbv	97
59) m/p-Xylene	13.15	91	7931721m	26.460	ppbv	
60) o-Xylene	13.85	91	3878802	13.571	ppbv	100
61) Styrene	13.69	104	2946325	14.658	ppbv	97
62) Isopropylbenzene	14.82	105	5270985	13.228	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2466083	12.125	ppbv	98
64) n-propylbenzene	15.72	120	1399378	14.167	ppbv	98
65) tert-Butylbenzene	16.91	119	4453344m	13.090	ppbv	
66) Benzyl Chloride	17.16	91	2431440	18.477	ppbv	99
67) sec-Butylbenzene	17.45	105	6384392m	13.164	ppbv	
69) p-Isopropyltoluene	17.82	119	5453070m	13.904	ppbv	
70) n-Butylbenzene	18.72	91	5779438	13.453	ppbv	99
71) 2-Chlorotoluene	15.62	91	4046459	13.281	ppbv	99
72) 4-Ethyltoluene	16.01	105	4347533	13.919	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	4157584	13.867	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	4139788	13.136	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	2405990m	13.054	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	2469056	13.517	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	2405182	13.442	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1719703	13.581	ppbv	100
79) Naphthalene	22.42	128	6220955	16.144	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	2450642	21.286	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2802469	14.474	ppbv	96

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

