

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032876.D
 Acq On : 4 Dec 2018 13:20
 Operator : SY/AP
 Sample : VL1204ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 12:59:41 PM

Quant Time: Dec 05 06:08:00 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)
1) Bromochloromethane	5.77	49	1357241	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3603914	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3808329	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2664839	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1022354	5.240	ppbv	98
3) Chlorodifluoromethane	3.02	51	950258	8.831	ppbv	98
4) Chloromethane	3.18	50	499149	8.366	ppbv	98
5) Vinyl Chloride	3.30	62	517611	8.187	ppbv	99
6) Bromomethane	3.52	94	351955	9.100	ppbv	96
7) Chloroethane	3.61	64	199574	8.758	ppbv	93
8) Dichlorotetrafluoroethane	3.23	85	1348034	8.768	ppbv	99
9) Propene	3.04	41	368846	8.566	ppbv	98
10) Heptane	8.26	43	1583262	9.631	ppbv	100
11) Trichlorofluoromethane	4.01	101	1576616	8.575	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1616660	10.765	ppbv	97
13) Ethanol	3.65	45	93986	6.664	ppbv	96
14) Bromoethene	3.80	108	470059	9.434	ppbv	99
15) Acetone	3.91	43	995461	8.031	ppbv	99
16) 1,3-Butadiene	3.37	39	445650	9.284	ppbv	96
17) tert-Butyl alcohol	4.36	59	454427	11.690	ppbv	99
18) 1,1-Dichloroethene	4.36	96	727055	9.845	ppbv	97
19) Isopropyl Alcohol	4.03	45	756476	9.162	ppbv	100
20) Methylene Chloride	4.42	84	636164	9.914	ppbv	96
21) Allyl Chloride	4.48	41	1139070	10.936	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	743681	10.313	ppbv	98
23) Vinyl Acetate	5.16	43	2211276	9.787	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1801193	10.027	ppbv	99
25) Ethyl Acetate	5.78	43	2658940	9.204	ppbv	99
26) Hexane	5.79	57	1215619	9.453	ppbv	99
27) Carbon Disulfide	4.63	76	1862547	11.422	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2226690	10.858	ppbv	100
29) Chloroform	5.86	83	2105692	9.187	ppbv	97
30) Cyclohexane	7.25	84	1122174	9.977	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1272957	9.846	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2320979	9.239	ppbv	99
34) 2-Butanone	5.34	43	1657190	8.866	ppbv	100
35) Carbon Tetrachloride	7.14	117	2536409	8.755	ppbv	98
36) Benzene	7.01	78	2599687	9.059	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1750083	9.059	ppbv	100
38) Trichloroethene	7.97	130	1115986	9.609	ppbv	99
39) 1,2-Dichloropropane	7.75	63	973964	8.907	ppbv	96
40) 1,4-Dioxane	7.97	88	347932	8.909	ppbv	100
41) Tetrahydrofuran	6.16	42	1020066	9.514	ppbv	100
42) Bromodichloromethane	7.93	83	2428515	9.273	ppbv	98
43) Methyl Methacrylate	8.15	69	1045535	9.759	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4411731	9.199	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1482255	10.310	ppbv	100
46) cis-1,3-Dichloropropene	8.85	75	1693028	9.747	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1128950	8.732	ppbv	94
48) Dibromochloromethane	10.46	129	2112900	9.615	ppbv	99
49) Bromoform	13.21	173	1872097	10.315	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2702532	9.257	ppbv	100
51) 2-Hexanone	10.28	43	1938858	10.308	ppbv #	99
52) Tetrachloroethene	11.39	164	973877	9.755	ppbv	99
53) Toluene	9.96	91	3337879	11.149	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1776571	9.720	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1641856	9.243	ppbv	98
57) Chlorobenzene	12.32	112	2618245	8.981	ppbv	98
58) Ethyl Benzene	12.88	91	4275842	9.329	ppbv	100
59) m/p-Xylene	13.14	91	7299065m	17.890	ppbv	
60) o-Xylene	13.86	91	3561655	8.682	ppbv	100
61) Styrene	13.70	104	2599950	9.735	ppbv	99
62) Isopropylbenzene	14.84	105	5079617	9.160	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2436070	7.617	ppbv	99
64) n-propylbenzene	15.73	120	1299943	8.913	ppbv	97
65) tert-Butylbenzene	16.92	119	4542861	9.139	ppbv	99
66) Benzyl Chloride	17.17	91	2572177	9.360	ppbv	99
67) sec-Butylbenzene	17.47	105	6278097	8.764	ppbv	99
69) p-Isopropyltoluene	17.83	119	5151291	9.044	ppbv	99
70) n-Butylbenzene	18.73	91	5094453	8.808	ppbv	100
71) 2-Chlorotoluene	15.63	91	3726704	9.012	ppbv	98
72) 4-Ethyltoluene	16.02	105	4078768	9.071	ppbv	98
73) 1,3,5-Trimethylbenzene	16.17	105	3945494	8.974	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	3992330	8.486	ppbv	97
75) 1,3-Dichlorobenzene	17.18	146	2230846	8.266	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2194653	8.706	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2176899	8.719	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	868704m	6.447	ppbv	
79) Naphthalene	22.43	128	2922358	9.455	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	792897	10.243	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1505853	9.702	ppbv	99

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

