

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032771.D
 Acq On : 14 Nov 2018 23:02
 Operator : SY/AP
 Sample : VL1114ABS03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:14 PM

Quant Time: Nov 15 07:20:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:20:22 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	1587079	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3969783	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3893192m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2845672	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1985795	8.704	ppbv	99
3) Chlorodifluoromethane	3.02	51	1156105	9.188	ppbv	98
4) Chloromethane	3.18	50	627629	8.996	ppbv	100
5) Vinyl Chloride	3.30	62	645589	8.733	ppbv	95
6) Bromomethane	3.52	94	411920	9.108	ppbv	94
7) Chloroethane	3.61	64	245254	9.204	ppbv	98
8) Dichlorotetrafluoroethane	3.23	85	1555546	8.653	ppbv	99
9) Propene	3.04	41	494965	9.830	ppbv	100
10) Heptane	8.25	43	1910310	9.937	ppbv	98
11) Trichlorofluoromethane	4.01	101	2612276	12.150	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1491220	8.492	ppbv	100
13) Ethanol	3.66	45	116773	7.080	ppbv	98
14) Bromoethene	3.80	108	541362	9.292	ppbv	100
15) Acetone	3.91	43	1121776	7.740	ppbv	100
16) 1,3-Butadiene	3.37	39	504118	8.982	ppbv	87
17) tert-Butyl alcohol	4.37	59	453436	9.975	ppbv	99
18) 1,1-Dichloroethene	4.36	96	833758	9.655	ppbv	99
19) Isopropyl Alcohol	4.03	45	1233354	12.774	ppbv	100
20) Methylene Chloride	4.42	84	702568	9.363	ppbv	97
21) Allyl Chloride	4.48	41	1332014	10.936	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	758027	8.990	ppbv	99
23) Vinyl Acetate	5.16	43	2680818	10.147	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1969693	9.378	ppbv	100
25) Ethyl Acetate	5.78	43	3194315	9.456	ppbv	100
26) Hexane	5.79	57	1469331	9.771	ppbv	99
27) Carbon Disulfide	4.63	76	1950277	10.228	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2441486	10.181	ppbv	99
29) Chloroform	5.86	83	2403016	8.966	ppbv	99
30) Cyclohexane	7.25	84	1310980	9.968	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1530005	10.120	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2581344	8.787	ppbv	100
34) 2-Butanone	5.34	43	2071703	10.062	ppbv	100
35) Carbon Tetrachloride	7.14	117	2789018	8.739	ppbv	98
36) Benzene	7.01	78	3134393	9.915	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1989221	9.348	ppbv	100
38) Trichloroethene	7.97	130	1237175	9.671	ppbv	99
39) 1,2-Dichloropropane	7.74	63	1186152	9.848	ppbv	98
40) 1,4-Dioxane	7.97	88	425467	9.890	ppbv	92
41) Tetrahydrofuran	6.16	42	1241469	10.512	ppbv	99
42) Bromodichloromethane	7.92	83	2731322	9.468	ppbv	97
43) Methyl Methacrylate	8.15	69	1256258	10.645	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5183464	9.812	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1820083	11.493	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2107854	11.017	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1367945	9.605	ppbv	98
48) Dibromochloromethane	10.46	129	2284552	9.438	ppbv	99
49) Bromoform	13.21	173	1848215	9.245	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3220203	10.013	ppbv	100
51) 2-Hexanone	10.28	43	2260878	10.912	ppbv	100
52) Tetrachloroethene	11.38	164	1081132	9.831	ppbv	97
53) Toluene	9.96	91	3568833	10.822	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1966145	9.766	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1594617	8.782	ppbv	99
57) Chlorobenzene	12.31	112	2637628	8.850	ppbv	97
58) Ethyl Benzene	12.87	91	4742418	10.122	ppbv	98
59) m/p-Xylene	13.13	91	7820150m	18.749	ppbv	
60) o-Xylene	13.86	91	3814527	9.095	ppbv	100
61) Styrene	13.69	104	2864631	10.493	ppbv	100
62) Isopropylbenzene	14.83	105	5326222	9.396	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2560378	7.832	ppbv	100
64) n-propylbenzene	15.73	120	1332841	8.939	ppbv	98
65) tert-Butylbenzene	16.92	119	4568539	8.990	ppbv	100
66) Benzyl Chloride	17.16	91	2632097	9.369	ppbv	100
67) sec-Butylbenzene	17.46	105	6485912	8.856	ppbv	100
69) p-Isopropyltoluene	17.82	119	5356304	9.199	ppbv	100
70) n-Butylbenzene	18.72	91	5504640	9.310	ppbv	100
71) 2-Chlorotoluene	15.62	91	3960317	9.368	ppbv	99
72) 4-Ethyltoluene	16.01	105	4293755	9.341	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	4082067	9.082	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	4165748	8.661	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2344376	8.498	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2327505	9.032	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2291881	8.980	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1289540	9.362	ppbv	99
79) Naphthalene	22.42	128	3998874	12.657	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	938896	11.865	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1869060	11.780	ppbv	99

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

