

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032773.D
 Acq On : 15 Nov 2018 00:19
 Operator : SY/AP
 Sample : VL1114ABS05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Manual Integrations
 APPROVED

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

Quant Time: Nov 15 07:24:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:24:46 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	1584230	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4086572	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4012320m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2875137	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1997570	8.772	ppbv 98
3) Chlorodifluoromethane	3.02	51	1151764	9.170	ppbv 98
4) Chloromethane	3.17	50	652293	9.366	ppbv 100
5) Vinyl Chloride	3.30	62	656301	8.893	ppbv 99
6) Bromomethane	3.52	94	413784	9.166	ppbv 93
7) Chloroethane	3.61	64	248988	9.361	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1573899	8.771	ppbv 99
9) Propene	3.04	41	509204	10.131	ppbv 99
10) Heptane	8.25	43	1963332	10.232	ppbv 98
11) Trichlorofluoromethane	4.01	101	2520168	11.743	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1488139	8.489	ppbv 99
13) Ethanol	3.66	45	110045	6.684	ppbv 99
14) Bromoethene	3.79	108	544625	9.365	ppbv 100
15) Acetone	3.91	43	1122341	7.758	ppbv 99
16) 1,3-Butadiene	3.37	39	551646	9.846	ppbv 95
17) tert-Butyl alcohol	4.36	59	461491	10.170	ppbv 100
18) 1,1-Dichloroethene	4.36	96	821303	9.528	ppbv 99
19) Isopropyl Alcohol	4.03	45	1193249	12.381	ppbv 100
20) Methylene Chloride	4.42	84	688802	9.197	ppbv 99
21) Allyl Chloride	4.48	41	1279250	10.522	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	751863	8.933	ppbv 98
23) Vinyl Acetate	5.16	43	2672007	10.132	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1962105	9.358	ppbv 99
25) Ethyl Acetate	5.78	43	3190050	9.461	ppbv 100
26) Hexane	5.79	57	1463534	9.750	ppbv 99
27) Carbon Disulfide	4.62	76	1945583	10.222	ppbv 100
28) Methyl tert-Butyl Ether	5.12	73	2468295	10.312	ppbv 100
29) Chloroform	5.86	83	2412677	9.018	ppbv 94
30) Cyclohexane	7.25	84	1368270	10.422	ppbv 98
31) cis-1,2-Dichloroethene	5.65	61	1535768	10.176	ppbv 99
32) 1,1,1-Trichloroethane	6.63	97	2598653	8.862	ppbv 99
34) 2-Butanone	5.34	43	2071698	9.774	ppbv 100
35) Carbon Tetrachloride	7.14	117	2778192	8.457	ppbv 100
36) Benzene	7.01	78	3254441	10.001	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1977521	9.027	ppbv 99
38) Trichloroethene	7.97	130	1245845	9.460	ppbv 96
39) 1,2-Dichloropropane	7.74	63	1207864	9.742	ppbv 97
40) 1,4-Dioxane	7.96	88	431225m	9.738	ppbv
41) Tetrahydrofuran	6.16	42	1281895	10.544	ppbv 100
42) Bromodichloromethane	7.92	83	2760969	9.298	ppbv 99
43) Methyl Methacrylate	8.15	69	1286966	10.593	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5315069	9.774	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1861336	11.418	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2141342	10.872	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1385159	9.448	ppbv	98
48) Dibromochloromethane	10.46	129	2311809	9.278	ppbv	99
49) Bromoform	13.21	173	1855552	9.017	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3306499	9.988	ppbv	100
51) 2-Hexanone	10.28	43	2329042	10.920	ppbv #	99
52) Tetrachloroethene	11.38	164	1112214	9.825	ppbv	98
53) Toluene	9.96	91	3665020	10.796	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2017950	9.737	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1608120	8.593	ppbv #	59
57) Chlorobenzene	12.31	112	2713005	8.833	ppbv	100
58) Ethyl Benzene	12.87	91	4832792	10.008	ppbv	99
59) m/p-Xylene	13.16	91	8001247m	18.614	ppbv	
60) o-Xylene	13.86	91	3848292	8.903	ppbv	100
61) Styrene	13.69	104	2902183	10.315	ppbv	99
62) Isopropylbenzene	14.83	105	5414451	9.268	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2560524	7.599	ppbv	99
64) n-propylbenzene	15.73	120	1366629	8.893	ppbv	100
65) tert-Butylbenzene	16.92	119	4650927	8.881	ppbv	99
66) Benzyl Chloride	17.16	91	2663290	9.199	ppbv	100
67) sec-Butylbenzene	17.47	105	6575972	8.713	ppbv	100
69) p-Isopropyltoluene	17.82	119	5460866	9.100	ppbv	99
70) n-Butylbenzene	18.72	91	5611709	9.209	ppbv	100
71) 2-Chlorotoluene	15.62	91	4047554	9.290	ppbv	100
72) 4-Ethyltoluene	16.01	105	4348220	9.178	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4146164	8.951	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	4205399	8.484	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	2379654	8.370	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2358653	8.881	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2325741	8.842	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1298418	9.146	ppbv	99
79) Naphthalene	22.42	128	4166509	12.796	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1037314	12.720	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1956584	11.966	ppbv	100

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

