

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031860.D
 Acq On : 12 Apr 2018 10:07
 Operator : SY/AP
 Sample : VL0412ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:34 PM

Quant Time: Apr 14 01:50:56 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1391504	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2829564	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2982889m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2346853	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.16	85	2043271	7.119 ppbv	99
3) Chlorodifluoromethane	3.10	51	1279769	7.907 ppbv	100
4) Chloromethane	3.26	50	626049	7.578 ppbv	95
5) Vinyl Chloride	3.38	62	675221	7.258 ppbv	99
6) Bromomethane	3.61	94	487355	7.971 ppbv	99
7) Chloroethane	3.70	64	282825	7.626 ppbv	95
8) Dichlorotetrafluoroethane	3.31	85	1786213	7.580 ppbv	99
9) Propene	3.12	41	471971	8.435 ppbv	99
10) Heptane	8.39	43	1612926	8.884 ppbv	100
11) Trichlorofluoromethane	4.11	101	2118800	7.530 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1549908	8.476 ppbv	99
13) Ethanol	3.75	45	139726	7.357 ppbv	98
14) Bromoethene	3.89	108	554066	8.036 ppbv	98
15) Acetone	4.01	43	1413249	6.599 ppbv	98
16) 1,3-Butadiene	3.46	39	633869	7.999 ppbv	94
17) tert-Butyl alcohol	4.47	59	840997	9.502 ppbv	100
18) 1,1-Dichloroethene	4.46	96	691560	8.804 ppbv	98
19) Isopropyl Alcohol	4.13	45	939436	7.853 ppbv	100
20) Methylene Chloride	4.52	84	662487	8.493 ppbv	93
21) Allyl Chloride	4.59	41	1119529	9.150 ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	723691	8.888 ppbv	99
23) Vinyl Acetate	5.28	43	2001175	9.214 ppbv	99
24) 1,1-Dichloroethane	5.21	63	1797285	8.307 ppbv	99
25) Ethyl Acetate	5.89	43	3053151	9.140 ppbv	100
26) Hexane	5.90	57	1430309	9.184 ppbv	99
27) Carbon Disulfide	4.74	76	1933308	9.562 ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1741419	9.087 ppbv	100
29) Chloroform	5.98	83	2325167	8.808 ppbv	99
30) Cyclohexane	7.38	84	992801	8.927 ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1357038	9.619 ppbv	97
32) 1,1,1-Trichloroethane	6.76	97	2272540	8.839 ppbv	100
34) 2-Butanone	5.45	43	1849990	9.425 ppbv	100
35) Carbon Tetrachloride	7.27	117	2146898	8.736 ppbv	98
36) Benzene	7.14	78	2398980	9.426 ppbv	98
37) 1,2-Dichloroethane	6.55	62	1935453	10.221 ppbv	100
38) Trichloroethene	8.10	130	976274	9.450 ppbv	97
39) 1,2-Dichloropropane	7.88	63	850781	8.992 ppbv	100
40) 1,4-Dioxane	8.09	88	392040	10.209 ppbv	# 1
41) Tetrahydrofuran	6.28	42	962883	10.598 ppbv	100
42) Bromodichloromethane	8.06	83	2151554	9.496 ppbv	99
43) Methyl Methacrylate	8.28	69	927274	10.354 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4111389	9.380	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1351359	11.634	ppbv	100
46) cis-1,3-Dichloropropene	8.98	75	1640640	11.051	ppbv	98
47) 1,1,2-Trichloroethane	9.76	97	1040048	9.249	ppbv	98
48) Dibromochloromethane	10.60	129	1780260	9.797	ppbv	99
49) Bromoform	13.35	173	1372109	9.807	ppbv	100
50) 4-Methyl-2-Pentanone	9.02	43	2226345	9.910	ppbv	100
51) 2-Hexanone	10.41	43	2102733	10.708	ppbv	99
52) Tetrachloroethene	11.52	164	926025	9.339	ppbv	97
53) Toluene	10.10	91	2937579	10.350	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1577867	9.667	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.43	131	1220712	8.696	ppbv	100
57) Chlorobenzene	12.45	112	2255606	8.919	ppbv	97
58) Ethyl Benzene	13.02	91	4098289	9.893	ppbv	100
59) m/p-Xylene	13.30	91	6790082m	18.878	ppbv	
60) o-Xylene	14.00	91	3429525	9.539	ppbv	100
61) Styrene	13.84	104	799691	11.681	ppbv	100
62) Isopropylbenzene	14.98	105	4242179	9.187	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2206390	7.982	ppbv	99
64) n-propylbenzene	15.87	120	1061684	9.457	ppbv	100
65) tert-Butylbenzene	17.06	119	3555261	8.951	ppbv	100
66) Benzyl Chloride	17.31	91	347715	9.716	ppbv	100
67) sec-Butylbenzene	17.61	105	5002240	8.742	ppbv	100
69) p-Isopropyltoluene	17.96	119	3898405	8.789	ppbv	100
70) n-Butylbenzene	18.86	91	3898026	8.440	ppbv	100
71) 2-Chlorotoluene	15.77	91	3179947	9.524	ppbv	100
72) 4-Ethyltoluene	16.15	105	3518415	9.576	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3097936	9.211	ppbv	100
74) 1,2,4-Trimethylbenzene	17.08	105	3220775	8.578	ppbv	96
75) 1,3-Dichlorobenzene	17.32	146	1942197	8.435	ppbv	100
76) 1,4-Dichlorobenzene	17.46	146	1959889	8.774	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1846382	8.144	ppbv	100
78) Hexachloro-1,3-Butadiene	23.69	225	995944	11.439	ppbv	98
79) Naphthalene	22.59	128	2125757	10.059	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	641803	15.558	ppbv	98
81) 1,2,4-Trichlorobenzene	22.32	180	1050217	8.957	ppbv	100

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

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