

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL032999.D
 Acq On : 17 Dec 2018 15:11
 Operator : SY/AP
 Sample : VL1217ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1217ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 1:56:43 PM

Quant Time: Dec 18 01:25:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1201216	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2859880	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3617503m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2480573	9.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1764543	11.004	ppbv 99
3) Chlorodifluoromethane	3.02	51	905907	9.958	ppbv 100
4) Chloromethane	3.17	50	517711	9.775	ppbv 96
5) Vinyl Chloride	3.30	62	537130	9.967	ppbv 99
6) Bromomethane	3.52	94	358664	10.641	ppbv 98
7) Chloroethane	3.61	64	203656	10.544	ppbv 100
8) Dichlorotetrafluoroethane	3.23	85	1366238	10.252	ppbv 98
9) Propene	3.04	41	366045	10.176	ppbv 100
10) Heptane	8.26	43	1074641	7.953	ppbv 100
11) Trichlorofluoromethane	4.01	101	1559811	10.324	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1065492	8.266	ppbv 99
13) Ethanol	3.65	45	87521	7.066	ppbv 98
14) Bromoethene	3.80	108	464183	10.846	ppbv 100
15) Acetone	3.91	43	972641	9.434	ppbv 99
16) 1,3-Butadiene	3.37	39	418502	10.231	ppbv 91
17) tert-Butyl alcohol	4.36	59	246296	9.383	ppbv # 82
18) 1,1-Dichloroethene	4.36	96	486371	9.634	ppbv 99
19) Isopropyl Alcohol	4.03	45	641909	9.914	ppbv # 99
20) Methylene Chloride	4.42	84	418187	8.299	ppbv 98
21) Allyl Chloride	4.48	41	745789	8.876	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	644493	10.287	ppbv 99
23) Vinyl Acetate	5.16	43	1938844	11.107	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1478212	9.738	ppbv 99
25) Ethyl Acetate	5.78	43	2406144	9.879	ppbv 100
26) Hexane	5.79	57	1106421	9.839	ppbv 99
27) Carbon Disulfide	4.63	76	1216784	8.654	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	1847252	10.938	ppbv 99
29) Chloroform	5.86	83	1878772	9.364	ppbv 96
30) Cyclohexane	7.26	84	928945	9.967	ppbv 98
31) cis-1,2-Dichloroethene	5.65	61	1133490	10.985	ppbv 98
32) 1,1,1-Trichloroethane	6.63	97	1929255	9.087	ppbv 99
34) 2-Butanone	5.34	43	1469522	11.797	ppbv 100
35) Carbon Tetrachloride	7.14	117	2106421	9.371	ppbv 98
36) Benzene	7.02	78	2151766	10.229	ppbv 100
37) 1,2-Dichloroethane	6.42	62	1436660	10.031	ppbv 99
38) Trichloroethene	7.97	130	852974	9.744	ppbv 98
39) 1,2-Dichloropropane	7.75	63	752816	9.437	ppbv 98
40) 1,4-Dioxane	7.97	88	266803	9.080	ppbv # 94
41) Tetrahydrofuran	6.16	42	835091	10.779	ppbv 99
42) Bromodichloromethane	7.93	83	1793302	9.038	ppbv 100
43) Methyl Methacrylate	8.15	69	763128	9.791	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3349862	9.382	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1202832	12.586	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1359416	11.622	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	902135	10.274	ppbv	97
48) Dibromochloromethane	10.46	129	1375098	8.348	ppbv	99
49) Bromoform	13.22	173	1521590	11.231	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2059492	10.339	ppbv	100
51) 2-Hexanone	10.28	43	1276556	9.449	ppbv	99
52) Tetrachloroethene	11.38	164	936386	12.238	ppbv	97
53) Toluene	9.96	91	2006965	8.996	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1114812	8.127	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1436767	8.909	ppbv	99
57) Chlorobenzene	12.32	112	2305528	8.824	ppbv	99
58) Ethyl Benzene	12.88	91	4039979	10.469	ppbv	100
59) m/p-Xylene	13.16	91	5882146m	16.812	ppbv	
60) o-Xylene	13.86	91	3324204	9.408	ppbv	99
61) Styrene	13.70	104	2454755	10.444	ppbv	100
62) Isopropylbenzene	14.84	105	4763689	9.664	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2285245	8.330	ppbv	100
64) n-propylbenzene	15.74	120	1219069	9.521	ppbv	98
65) tert-Butylbenzene	16.92	119	4393835	9.614	ppbv	100
66) Benzyl Chloride	17.17	91	2573731	10.161	ppbv	99
67) sec-Butylbenzene	17.47	105	6130958	9.099	ppbv	100
69) p-Isopropyltoluene	17.83	119	4508677	8.257	ppbv	100
70) n-Butylbenzene	18.73	91	4490748	8.939	ppbv	100
71) 2-Chlorotoluene	15.63	91	3536589	9.647	ppbv	100
72) 4-Ethyltoluene	16.01	105	3936759	9.980	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	3811902	9.899	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	3965719	9.120	ppbv #	91
75) 1,3-Dichlorobenzene	17.18	146	2261588	8.832	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2179540	9.122	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1921707	8.036	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1104568	8.399	ppbv	99
79) Naphthalene	22.43	128	2691068	9.585	ppbv	98
80) Naphthalene, 2-methyl-	25.13	142	636971	10.618	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1341013	9.006	ppbv	98

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

