

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033709.D
 Acq On : 17 May 2019 9:09
 Operator : SY/AP
 Sample : VL0517ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0517ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:35 PM

Quant Time: May 17 23:28:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1126476	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2757724	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2914569m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2309279	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	3.07	85	2412581	10.163	ppbv	100
3) Chlorodifluoromethane	3.01	51	1335347	10.349	ppbv	99
4) Chloromethane	3.17	50	734029	9.946	ppbv	96
5) Vinyl Chloride	3.29	62	746335	9.927	ppbv	97
6) Bromomethane	3.51	94	464513	10.126	ppbv	99
7) Chloroethane	3.60	64	265803	9.949	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1893974	9.896	ppbv	99
9) Propene	3.04	41	574222	10.463	ppbv	99
10) Heptane	8.24	43	1428314	9.190	ppbv	99
11) Trichlorofluoromethane	4.00	101	2136156	9.428	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1479451	9.350	ppbv	100
13) Ethanol	3.65	45	126480	7.130	ppbv	99
14) Bromoethene	3.79	108	585372	10.064	ppbv	99
15) Acetone	3.90	43	1356619	8.680	ppbv	99
16) 1,3-Butadiene	3.36	39	650053	10.444	ppbv	99
17) tert-Butyl alcohol	4.35	59	1202087	9.512	ppbv	100
18) 1,1-Dichloroethene	4.35	96	660168	9.885	ppbv	95
19) Isopropyl Alcohol	4.02	45	897475	8.906	ppbv	100
20) Methylene Chloride	4.41	84	556313	9.245	ppbv	98
21) Allyl Chloride	4.48	41	981965	10.073	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	689582	10.074	ppbv	98
23) Vinyl Acetate	5.15	43	2210319	10.726	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1511664	9.650	ppbv	98
25) Ethyl Acetate	5.77	43	2474180	9.012	ppbv	99
26) Hexane	5.78	57	1082569	9.172	ppbv	98
27) Carbon Disulfide	4.62	76	1684691	10.404	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1979255	10.286	ppbv	99
29) Chloroform	5.85	83	1864302	8.575	ppbv	99
30) Cyclohexane	7.25	84	962775	9.702	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1140583	9.746	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	1961760	9.037	ppbv	100
34) 2-Butanone	5.33	43	1715401	10.035	ppbv	100
35) Carbon Tetrachloride	7.13	117	2116627	9.582	ppbv	99
36) Benzene	7.00	78	2346643	9.354	ppbv	100
37) 1,2-Dichloroethane	6.41	62	1434478	8.865	ppbv	100
38) Trichloroethene	7.96	130	937858	10.075	ppbv	98
39) 1,2-Dichloropropane	7.73	63	871561	9.319	ppbv	96
40) 1,4-Dioxane	7.95	88	359364	9.185	ppbv	# 95
41) Tetrahydrofuran	6.15	42	922660	9.634	ppbv	99
42) Bromodichloromethane	7.91	83	2105685	9.505	ppbv	96
43) Methyl Methacrylate	8.13	69	934367	10.121	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	3896863	9.191	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1376457	11.761	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1441561	10.519	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	983169	9.253	ppbv	97
48) Dibromochloromethane	10.45	129	1798925	9.772	ppbv	100
49) Bromoform	13.20	173	1575392	10.170	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2501274	9.513	ppbv	100
51) 2-Hexanone	10.27	43	2071161	10.093	ppbv #	100
52) Tetrachloroethene	11.37	164	904476	10.257	ppbv	99
53) Toluene	9.94	91	2728689	10.085	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1556007	9.596	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1207966	8.957	ppbv	97
57) Chlorobenzene	12.30	112	2135043	8.899	ppbv	99
58) Ethyl Benzene	12.86	91	3796123	9.836	ppbv	100
59) m/p-Xylene	13.15	91	6299456m	18.671	ppbv	
60) o-Xylene	13.85	91	3141445	9.236	ppbv	99
61) Styrene	13.68	104	2395174	10.460	ppbv	100
62) Isopropylbenzene	14.82	105	4197596	9.164	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2123341	8.585	ppbv	99
64) n-propylbenzene	15.72	120	1079445	9.111	ppbv	100
65) tert-Butylbenzene	16.91	119	3818894	9.132	ppbv	100
66) Benzyl Chloride	17.15	91	2140538	10.747	ppbv	100
67) sec-Butylbenzene	17.46	105	5315696	9.082	ppbv	100
69) p-Isopropyltoluene	17.81	119	4485518	9.272	ppbv	99
70) n-Butylbenzene	18.71	91	4674227	9.010	ppbv	100
71) 2-Chlorotoluene	15.61	91	3156540	9.289	ppbv	100
72) 4-Ethyltoluene	16.00	105	3716242	9.556	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3488902	9.195	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3698794	8.958	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	2142997	8.469	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2155312	8.962	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2062368	8.674	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1913644	10.645	ppbv	99
79) Naphthalene	22.41	128	4324033	11.274	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	2052056	14.081	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2212887	9.853	ppbv	100

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

