

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033625.D
 Acq On : 2 May 2019 12:43
 Operator : SY/AP
 Sample : VL0502ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0502ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

Quant Time: May 03 03:59:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1066956	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2639394	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2938961m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2222748	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1663198	10.344	ppbv	98
3) Chlorodifluoromethane	3.01	51	1222640	9.584	ppbv	98
4) Chloromethane	3.17	50	679577	9.780	ppbv	100
5) Vinyl Chloride	3.29	62	670356	9.196	ppbv	97
6) Bromomethane	3.51	94	441028	10.280	ppbv	98
7) Chloroethane	3.60	64	262663	10.808	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1709511	9.772	ppbv	98
9) Propene	3.03	41	520190	14.241	ppbv	87
10) Heptane	8.25	43	1404803	10.400	ppbv	99
11) Trichlorofluoromethane	4.00	101	2062121	10.790	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1362815	10.397	ppbv	99
13) Ethanol	3.65	45	147764	8.922	ppbv	97
14) Bromoethene	3.79	108	570964	10.612	ppbv	98
15) Acetone	3.90	43	1285744	9.898	ppbv	99
16) 1,3-Butadiene	3.36	39	629677	10.771	ppbv	99
17) tert-Butyl alcohol	4.35	59	1284553	11.453	ppbv	100
18) 1,1-Dichloroethene	4.35	96	610223	10.713	ppbv	95
19) Isopropyl Alcohol	4.02	45	1037298	11.635	ppbv	100
20) Methylene Chloride	4.41	84	507118	10.017	ppbv	98
21) Allyl Chloride	4.48	41	894747	10.950	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	621735	11.145	ppbv	96
23) Vinyl Acetate	5.16	43	2026736	10.492	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1403053	9.757	ppbv	99
25) Ethyl Acetate	5.77	43	2374604	9.632	ppbv	100
26) Hexane	5.78	57	1032295	9.944	ppbv	99
27) Carbon Disulfide	4.62	76	1494762	11.890	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1815524	10.371	ppbv	99
29) Chloroform	5.85	83	1790985	9.414	ppbv	98
30) Cyclohexane	7.24	84	941651	10.715	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1092579	10.428	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1904834	9.566	ppbv	99
34) 2-Butanone	5.33	43	1579655	9.749	ppbv	99
35) Carbon Tetrachloride	7.13	117	2015513	9.639	ppbv	98
36) Benzene	7.00	78	2275362	10.118	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1415542	9.473	ppbv	99
38) Trichloroethene	7.96	130	909304	10.138	ppbv	98
39) 1,2-Dichloropropane	7.73	63	841018	9.917	ppbv	98
40) 1,4-Dioxane	7.95	88	379107	11.002	ppbv	90
41) Tetrahydrofuran	6.15	42	903138	10.437	ppbv	99
42) Bromodichloromethane	7.92	83	2008358	9.931	ppbv	99
43) Methyl Methacrylate	8.14	69	907860	10.661	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3793676	9.680	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1248143	11.035	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1408363	11.039	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	943916	8.534	ppbv	99
48) Dibromochloromethane	10.45	129	1739137	9.297	ppbv	99
49) Bromoform	13.20	173	1514703	10.569	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2451157	9.654	ppbv	100
51) 2-Hexanone	10.27	43	2054974	9.219	ppbv	99
52) Tetrachloroethene	11.37	164	890917	10.304	ppbv	98
53) Toluene	9.94	91	2698452	9.508	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1523844	10.017	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1159571	9.160	ppbv	100
57) Chlorobenzene	12.30	112	2054498	9.108	ppbv	97
58) Ethyl Benzene	12.86	91	3702972	10.942	ppbv	99
59) m/p-Xylene	13.15	91	6118052m	21.014	ppbv	
60) o-Xylene	13.85	91	3082082	10.480	ppbv	99
61) Styrene	13.68	104	2356829	11.725	ppbv	100
62) Isopropylbenzene	14.82	105	4042308	10.285	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2090307	9.105	ppbv	100
64) n-propylbenzene	15.72	120	1058898	10.387	ppbv	99
65) tert-Butylbenzene	16.90	119	3684751	10.025	ppbv	99
66) Benzyl Chloride	17.15	91	2010267	12.060	ppbv	100
67) sec-Butylbenzene	17.46	105	5136054	9.950	ppbv	99
69) p-Isopropyltoluene	17.81	119	4299695	10.012	ppbv	100
70) n-Butylbenzene	18.71	91	4470060	9.564	ppbv	100
71) 2-Chlorotoluene	15.61	91	3097458	10.537	ppbv	99
72) 4-Ethyltoluene	16.00	105	3570308	10.658	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3367909	10.224	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3558833	9.686	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2086840	9.124	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2092137	9.593	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1982758	9.319	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1828403	11.239	ppbv	100
79) Naphthalene	22.41	128	4133615	12.199	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	2053352	13.978	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2102999	10.702	ppbv	99

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

