

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
 Data File : VL032697.D
 Acq On : 25 Oct 2018 9:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 3:41:04 PM

Quant Time: Oct 25 22:03:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1472713	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3685930	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3859783m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2799608	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	1054246	7.026	ppbv	100
3) Chlorodifluoromethane	3.02	51	1064195	9.240	ppbv	100
4) Chloromethane	3.18	50	611022	9.493	ppbv	100
5) Vinyl Chloride	3.30	62	620156	8.895	ppbv	98
6) Bromomethane	3.52	94	391981	9.018	ppbv	89
7) Chloroethane	3.61	64	231724	9.026	ppbv	99
8) Dichlorotetrafluoroethane	3.23	85	1453409	9.190	ppbv	91
9) Propene	3.04	41	471841	9.955	ppbv	100
10) Heptane	8.26	43	1964373	10.755	ppbv	98
11) Trichlorofluoromethane	4.01	101	1550930	7.913	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1130396	6.935	ppbv	91
13) Ethanol	3.66	45	126603	9.346	ppbv	97
14) Bromoethene	3.80	108	496552	9.014	ppbv	99
15) Acetone	3.91	43	1067203	7.847	ppbv	99
16) 1,3-Butadiene	3.37	39	523154	10.457	ppbv	81
17) tert-Butyl alcohol	4.37	59	346102	8.653	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	528990	7.388	ppbv	97
19) Isopropyl Alcohol	4.03	45	854165	8.820	ppbv #	97
20) Methylene Chloride	4.42	84	453467	6.569	ppbv	94
21) Allyl Chloride	4.49	41	870822	7.799	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	651919	8.876	ppbv	89
23) Vinyl Acetate	5.16	43	2592882	10.760	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1857143	9.817	ppbv	99
25) Ethyl Acetate	5.78	43	3109608	9.934	ppbv	99
26) Hexane	5.79	57	1429705	9.653	ppbv	98
27) Carbon Disulfide	4.63	76	1960599	10.912	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2257363	10.605	ppbv	99
29) Chloroform	5.86	83	2234113	9.443	ppbv	100
30) Cyclohexane	7.26	84	1286326	10.972	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1497772	10.906	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2349725	9.773	ppbv	98
34) 2-Butanone	5.34	43	1984068	10.041	ppbv	100
35) Carbon Tetrachloride	7.15	117	2491640	9.525	ppbv	99
36) Benzene	7.02	78	2991217	9.993	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1791453	9.758	ppbv	98
38) Trichloroethene	7.97	130	1202859	10.856	ppbv	97
39) 1,2-Dichloropropane	7.75	63	1166403	10.091	ppbv	96
40) 1,4-Dioxane	7.97	88	392317	9.938	ppbv #	1
41) Tetrahydrofuran	6.16	42	1153492	10.476	ppbv	99
42) Bromodichloromethane	7.93	83	2543059	9.887	ppbv	98
43) Methyl Methacrylate	8.15	69	1231884	11.230	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5150567	10.080	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1692728	11.528	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1901304	11.333	ppbv	100
47) 1,1,2-Trichloroethane	9.63	97	1378661	10.095	ppbv	97
48) Dibromochloromethane	10.47	129	2467204	10.838	ppbv	100
49) Bromoform	13.22	173	1888952	10.559	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2973400	10.158	ppbv	99
51) 2-Hexanone	10.28	43	2555204	11.742	ppbv #	97
52) Tetrachloroethene	11.39	164	1083606	10.384	ppbv	97
53) Toluene	9.96	91	3895740	11.354	ppbv	99
54) 1,2-Dibromoethane	10.78	107	1937297	10.437	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1595022	9.450	ppbv	98
57) Chlorobenzene	12.32	112	2714547	9.563	ppbv #	93
58) Ethyl Benzene	12.88	91	4815292	10.739	ppbv	100
59) m/p-Xylene	13.16	91	8031479m	20.114	ppbv	
60) o-Xylene	13.87	91	3813133	9.900	ppbv	99
61) Styrene	13.70	104	2922255	11.315	ppbv	98
62) Isopropylbenzene	14.84	105	5360422	9.833	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2613000	8.658	ppbv	99
64) n-propylbenzene	15.74	120	1372333	10.129	ppbv	94
65) tert-Butylbenzene	16.92	119	4541245	9.782	ppbv	96
66) Benzyl Chloride	17.17	91	2659470	11.095	ppbv	98
67) sec-Butylbenzene	17.47	105	6381372	9.664	ppbv	99
69) p-Isopropyltoluene	17.83	119	5172283	9.885	ppbv	99
70) n-Butylbenzene	18.73	91	5222544	9.695	ppbv	99
71) 2-Chlorotoluene	15.63	91	3972547	10.254	ppbv	98
72) 4-Ethyltoluene	16.02	105	4343229	10.587	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4049479	10.134	ppbv	95
74) 1,2,4-Trimethylbenzene	16.94	105	4113693	9.640	ppbv	95
75) 1,3-Dichlorobenzene	17.18	146	2301960	9.381	ppbv	98
76) 1,4-Dichlorobenzene	17.33	146	2286978	10.100	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2173285	9.349	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1377566	12.541	ppbv	100
79) Naphthalene	22.43	128	3405179	12.839	ppbv	99
80) Naphthalene,2-methyl-	25.13	142	1406525	21.808	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1694075	12.333	ppbv	100

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

