

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL103018\
 Data File : VL032701.D
 Acq On : 30 Oct 2018 16:05
 Operator : SY/AP
 Sample : VL1030ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1030ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/31/2018 10:39:59 AM

Quant Time: Oct 31 05:27:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 2
 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	5.78	49	1455197	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3688968	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3869027	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2773115	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1911037	12.890	ppbv	100
3) Chlorodifluoromethane	3.02	51	1107942	9.736	ppbv	100
4) Chloromethane	3.18	50	650298	10.225	ppbv	98
5) Vinyl Chloride	3.30	62	645065	9.364	ppbv	100
6) Bromomethane	3.53	94	413710	9.632	ppbv	92
7) Chloroethane	3.61	64	244692	9.646	ppbv	94
8) Dichlorotetrafluoroethane	3.23	85	1520909	9.733	ppbv	92
9) Propene	3.05	41	508168	10.851	ppbv	98
10) Heptane	8.26	43	1965838	10.892	ppbv	98
11) Trichlorofluoromethane	4.02	101	1732527	8.946	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1567287	9.731	ppbv	93
13) Ethanol	3.66	45	125479	9.374	ppbv	100
14) Bromoethene	3.80	108	533946	9.810	ppbv	100
15) Acetone	3.91	43	1141565	8.495	ppbv	99
16) 1,3-Butadiene	3.37	39	544298	11.011	ppbv	81
17) tert-Butyl alcohol	4.38	59	452715	11.455	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	734027	10.374	ppbv	98
19) Isopropyl Alcohol	4.04	45	870408	9.095	ppbv #	97
20) Methylene Chloride	4.42	84	628311	9.211	ppbv	97
21) Allyl Chloride	4.49	41	1200374	10.880	ppbv	100
22) trans-1,2-Dichloroethene	4.98	96	746744	10.290	ppbv	87
23) Vinyl Acetate	5.17	43	2562309	10.761	ppbv	99
24) 1,1-Dichloroethane	5.11	63	1927962	10.314	ppbv	100
25) Ethyl Acetate	5.79	43	3119719	10.086	ppbv	99
26) Hexane	5.80	57	1444573	9.871	ppbv	98
27) Carbon Disulfide	4.63	76	1720667	9.692	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2367461	11.256	ppbv	99
29) Chloroform	5.87	83	2377950	10.172	ppbv	100
30) Cyclohexane	7.26	84	1322823	11.419	ppbv	96
31) cis-1,2-Dichloroethene	5.66	61	1464331	10.791	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	2369353	9.973	ppbv	98
34) 2-Butanone	5.34	43	2028280	10.257	ppbv	100
35) Carbon Tetrachloride	7.16	117	2558886	9.774	ppbv	100
36) Benzene	7.02	78	3119253	10.413	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1829256	9.956	ppbv	98
38) Trichloroethene	7.98	130	1214827	10.955	ppbv	95
39) 1,2-Dichloropropane	7.76	63	1198842	10.364	ppbv	99
40) 1,4-Dioxane	7.98	88	448234	11.346	ppbv #	97
41) Tetrahydrofuran	6.16	42	1250908	11.352	ppbv	99
42) Bromodichloromethane	7.94	83	2620342	10.179	ppbv	97
43) Methyl Methacrylate	8.16	69	1268047	11.550	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5252063	10.270	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1832199	12.467	ppbv	98
46) cis-1,3-Dichloropropene	8.86	75	1919842	11.434	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1385200	10.134	ppbv	98
48) Dibromochloromethane	10.47	129	2222405	9.754	ppbv	100
49) Bromoform	13.22	173	1859799	10.388	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3258003	11.121	ppbv	99
51) 2-Hexanone	10.29	43	2337946	10.735	ppbv #	98
52) Tetrachloroethene	11.40	164	1059519	10.145	ppbv	97
53) Toluene	9.97	91	3946270	11.492	ppbv	100
54) 1,2-Dibromoethane	10.78	107	1919645	10.333	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.30	131	1592800	9.415	ppbv #	61
57) Chlorobenzene	12.32	112	2739188	9.627	ppbv	94
58) Ethyl Benzene	12.88	91	4877281	10.851	ppbv	98
59) m/p-Xylene	13.17	91	8115067m	20.275	ppbv	
60) o-Xylene	13.87	91	3857593	9.991	ppbv	100
61) Styrene	13.71	104	2978128	11.504	ppbv	97
62) Isopropylbenzene	14.85	105	5422171	9.923	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2628768	8.690	ppbv	99
64) n-propylbenzene	15.74	120	1381279	10.171	ppbv	95
65) tert-Butylbenzene	16.93	119	4569915	9.820	ppbv	96
66) Benzyl Chloride	17.17	91	2674797	11.132	ppbv	99
67) sec-Butylbenzene	17.48	105	6445635	9.738	ppbv	98
69) p-Isopropyltoluene	17.84	119	5219969	9.952	ppbv	98
70) n-Butylbenzene	18.73	91	5269487	9.759	ppbv	99
71) 2-Chlorotoluene	15.64	91	4025937	10.367	ppbv	98
72) 4-Ethyltoluene	16.02	105	4382206	10.656	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4100853	10.238	ppbv	100
74) 1,2,4-Trimethylbenzene	16.95	105	4132505	9.661	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	2301664	9.358	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2260944	9.961	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2171188	9.317	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	995839	9.044	ppbv	100
79) Naphthalene	22.44	128	3448831	12.972	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1105270	17.096	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	1634490	11.871	ppbv	99

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

