

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033808.D
 Acq On : 28 May 2019 17:01
 Operator : SY/AP
 Sample : VL0528ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:23 PM

Quant Time: May 29 05:23:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 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	904359	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2433708	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2468082	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1839646	9.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1404220	7.368	ppbv	99
3) Chlorodifluoromethane	3.01	51	1022543	9.871	ppbv	98
4) Chloromethane	3.17	50	628985	10.616	ppbv	97
5) Vinyl Chloride	3.29	62	613711	10.168	ppbv	99
6) Bromomethane	3.51	94	387322	10.517	ppbv	100
7) Chloroethane	3.60	64	227033	10.585	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1507336	9.810	ppbv	96
9) Propene	3.03	41	495853	11.254	ppbv	100
10) Heptane	8.24	43	1253865	10.049	ppbv	100
11) Trichlorofluoromethane	4.00	101	1653126	9.088	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1146602	9.027	ppbv	96
13) Ethanol	3.64	45	108396	7.611	ppbv	99
14) Bromoethene	3.78	108	505692	10.829	ppbv	98
15) Acetone	3.90	43	1090051	8.687	ppbv	99
16) 1,3-Butadiene	3.36	39	535827	10.724	ppbv	100
17) tert-Butyl alcohol	4.35	59	1099656	10.838	ppbv	99
18) 1,1-Dichloroethene	4.35	96	519975	9.698	ppbv	96
19) Isopropyl Alcohol	4.02	45	823971	10.185	ppbv	100
20) Methylene Chloride	4.40	84	440537	9.119	ppbv	96
21) Allyl Chloride	4.47	41	760993	9.723	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	527382	9.597	ppbv	96
23) Vinyl Acetate	5.15	43	1798079	10.868	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1240043	9.860	ppbv	99
25) Ethyl Acetate	5.77	43	2156324	9.783	ppbv	100
26) Hexane	5.78	57	977710	10.318	ppbv	97
27) Carbon Disulfide	4.62	76	1270627	9.774	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1699572	11.002	ppbv	100
29) Chloroform	5.85	83	1594590	9.136	ppbv	99
30) Cyclohexane	7.24	84	880091	11.048	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	971996	10.345	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1617990	9.284	ppbv	99
34) 2-Butanone	5.32	43	1410003	9.347	ppbv	97
35) Carbon Tetrachloride	7.13	117	1711429	8.779	ppbv	97
36) Benzene	7.00	78	2069336	9.347	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1155621	8.092	ppbv	98
38) Trichloroethene	7.96	130	863739	10.514	ppbv	99
39) 1,2-Dichloropropane	7.73	63	789173	9.561	ppbv	95
40) 1,4-Dioxane	7.95	88	335399	9.714	ppbv #	92
41) Tetrahydrofuran	6.14	42	815175	9.645	ppbv	99
42) Bromodichloromethane	7.91	83	1780921	9.109	ppbv	97
43) Methyl Methacrylate	8.13	69	864304	10.609	ppbv	95

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

44) 2,2,4-Trimethylpentane	7.99	57	3488329	9.323	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1088762	10.541	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1238292	10.239	ppbv	93
47) 1,1,2-Trichloroethane	9.61	97	881550	9.402	ppbv	97
48) Dibromochloromethane	10.44	129	1494757	9.200	ppbv	99
49) Bromoform	13.20	173	1375343	10.061	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2115898	9.119	ppbv	99
51) 2-Hexanone	10.26	43	1748327	9.654	ppbv #	98
52) Tetrachloroethene	11.36	164	796426	10.234	ppbv	97
53) Toluene	9.94	91	2440418	10.220	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1368469	9.564	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	1022934	8.957	ppbv	96
57) Chlorobenzene	12.30	112	1848474	9.099	ppbv	97
58) Ethyl Benzene	12.86	91	3417339	10.456	ppbv	100
59) m/p-Xylene	13.15	91	5566683m	19.484	ppbv	
60) o-Xylene	13.85	91	2777907	9.645	ppbv	98
61) Styrene	13.68	104	2151350	11.095	ppbv	98
62) Isopropylbenzene	14.82	105	3789552	9.770	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1899545	9.069	ppbv	100
64) n-propylbenzene	15.72	120	962097	9.590	ppbv	99
65) tert-Butylbenzene	16.90	119	3389249	9.571	ppbv	98
66) Benzyl Chloride	17.15	91	1698482	10.070	ppbv	98
67) sec-Butylbenzene	17.45	105	4822377	9.729	ppbv	100
69) p-Isopropyltoluene	17.81	119	4025198	9.825	ppbv	99
70) n-Butylbenzene	18.71	91	4179159	9.513	ppbv	100
71) 2-Chlorotoluene	15.61	91	2837481	9.860	ppbv	98
72) 4-Ethyltoluene	16.00	105	3338988	10.140	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3144722	9.788	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3236107	9.255	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1933815	9.025	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1917425	9.415	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1875205	9.314	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1222235	8.029	ppbv	99
79) Naphthalene	22.40	128	2609664	8.035	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	1029614	8.343	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1502606	7.901	ppbv	99

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

