

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033392.D
 Acq On : 20 Mar 2019 16:33
 Operator : SY/AP
 Sample : VL0320ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0320ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:24 AM

Quant Time: Mar 20 20:01:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	835119	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1921671	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2125264m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1484974	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1516564	10.327	ppbv 99
3) Chlorodifluoromethane	3.01	51	1040310	10.853	ppbv 99
4) Chloromethane	3.17	50	550513	10.606	ppbv 98
5) Vinyl Chloride	3.29	62	546110	10.199	ppbv 99
6) Bromomethane	3.51	94	349310	10.975	ppbv 98
7) Chloroethane	3.60	64	201742	10.782	ppbv 92
8) Dichlorotetrafluoroethane	3.22	85	1381018	11.046	ppbv 99
9) Propene	3.03	41	447903	10.468	ppbv 100
10) Heptane	8.25	43	1228136	11.572	ppbv 99
11) Trichlorofluoromethane	4.00	101	1651254	11.292	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1043301	10.753	ppbv 98
13) Ethanol	3.65	45	98671	4.837	ppbv 96
14) Bromoethene	3.79	108	453474	11.213	ppbv 99
15) Acetone	3.90	43	1002390	7.722	ppbv 100
16) 1,3-Butadiene	3.36	39	461155	10.937	ppbv 96
17) tert-Butyl alcohol	4.35	59	198555	10.868	ppbv 100
18) 1,1-Dichloroethene	4.35	96	476483	10.740	ppbv 97
19) Isopropyl Alcohol	4.02	45	689273	11.162	ppbv 99
20) Methylene Chloride	4.41	84	403128	9.522	ppbv 99
21) Allyl Chloride	4.47	41	709294	11.263	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	477362	11.103	ppbv 97
23) Vinyl Acetate	5.15	43	1632209	10.866	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1158265	10.677	ppbv 99
25) Ethyl Acetate	5.76	43	2019701	10.703	ppbv 100
26) Hexane	5.78	57	893939	10.596	ppbv 99
27) Carbon Disulfide	4.62	76	1157005	11.913	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1358536	10.842	ppbv 99
29) Chloroform	5.85	83	1530499	11.079	ppbv 98
30) Cyclohexane	7.25	84	759380	11.227	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	941900	11.166	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1504851	11.095	ppbv 100
34) 2-Butanone	5.33	43	1314601	10.417	ppbv 99
35) Carbon Tetrachloride	7.13	117	1593838	11.765	ppbv 98
36) Benzene	7.00	78	1858671	10.807	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1172214	10.780	ppbv 100
38) Trichloroethene	7.96	130	744873	11.446	ppbv 99
39) 1,2-Dichloropropane	7.74	63	722002	11.210	ppbv 98
40) 1,4-Dioxane	7.95	88	255986	11.287	ppbv 95
41) Tetrahydrofuran	6.14	42	749539	11.129	ppbv 99
42) Bromodichloromethane	7.91	83	1704991	11.694	ppbv 100
43) Methyl Methacrylate	8.13	69	786020	11.738	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3226095	11.326	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1055859	12.771	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1194617	12.272	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	796302	11.190	ppbv	92
48) Dibromochloromethane	10.45	129	1463651	12.264	ppbv	99
49) Bromoform	13.20	173	1332649	11.772	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2018355	11.322	ppbv	99
51) 2-Hexanone	10.27	43	1553608	11.296	ppbv #	100
52) Tetrachloroethene	11.37	164	744582	10.392	ppbv	99
53) Toluene	9.95	91	2284381	11.690	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1320032	10.973	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1040991	10.950	ppbv	96
57) Chlorobenzene	12.30	112	1731924	10.289	ppbv	99
58) Ethyl Benzene	12.86	91	3289958	10.943	ppbv	97
59) m/p-Xylene	13.12	91	5519284m	21.362	ppbv	
60) o-Xylene	13.85	91	2672308	10.602	ppbv	100
61) Styrene	13.69	104	1959674	11.104	ppbv	99
62) Isopropylbenzene	14.83	105	3731365	10.648	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1854753	10.179	ppbv	100
64) n-propylbenzene	15.72	120	952848	10.746	ppbv	99
65) tert-Butylbenzene	16.91	119	3442418	10.911	ppbv	99
66) Benzyl Chloride	17.16	91	1684934	12.924	ppbv	99
67) sec-Butylbenzene	17.46	105	4770109	10.670	ppbv	99
69) p-Isopropyltoluene	17.82	119	3924796	10.746	ppbv	100
70) n-Butylbenzene	18.72	91	4125537	10.593	ppbv	100
71) 2-Chlorotoluene	15.62	91	2897365	10.622	ppbv	100
72) 4-Ethyltoluene	16.00	105	3089645	10.794	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2961101	10.619	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3129057	10.595	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1753385	10.073	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1766609	10.482	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1710325	10.375	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	916643	9.274	ppbv	99
79) Naphthalene	22.42	128	2835193	9.962	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1120921	8.306	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1487622	10.251	ppbv	99

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

