

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034518.D
 Acq On : 30 Dec 2019 18:31
 Operator : SY/AP
 Sample : VL1230ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1230ABS01

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:49:13 AM

Quant Time: Dec 31 05:33:44 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 2019

QLast Update : Mon Dec 30 14:58:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1077702	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2158786	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2150020m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1825865	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1919086	11.291	ppbv 100
3) Chlorodifluoromethane	2.95	51	1191240	9.277	ppbv 99
4) Chloromethane	3.11	50	634122	8.314	ppbv 97
5) Vinyl Chloride	3.23	62	616760	8.258	ppbv 99
6) Bromomethane	3.45	94	342775	9.220	ppbv 97
7) Chloroethane	3.53	64	234137	8.996	ppbv 100
8) Dichlorotetrafluoroethane	3.16	85	1482824	8.699	ppbv 99
9) Propene	2.98	41	453909	9.169	ppbv 98
10) Heptane	8.15	43	1245720	9.744	ppbv 99
11) Trichlorofluoromethane	3.93	101	1702842	8.658	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1134005	9.065	ppbv 98
13) Ethanol	3.58	45	93126	6.780	ppbv 99
14) Bromoethene	3.72	108	456630	9.025	ppbv 100
15) Acetone	3.83	43	1183821	7.527	ppbv 99
16) 1,3-Butadiene	3.30	39	561995	9.291	ppbv 99
17) tert-Butyl alcohol	4.28	59	931837	7.399	ppbv 99
18) 1,1-Dichloroethene	4.27	96	502714	9.225	ppbv 94
19) Isopropyl Alcohol	3.95	45	680908	6.688	ppbv # 99
20) Methylene Chloride	4.33	84	442361	7.148	ppbv 98
21) Allyl Chloride	4.40	41	820485	9.076	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	503210	9.079	ppbv 97
23) Vinyl Acetate	5.07	43	1763910	9.714	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1289468	8.839	ppbv 98
25) Ethyl Acetate	5.68	43	2167685	8.825	ppbv 99
26) Hexane	5.69	57	951190	9.191	ppbv 97
27) Carbon Disulfide	4.54	76	1261409	9.642	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1638455	9.479	ppbv 99
29) Chloroform	5.76	83	1585660	8.855	ppbv 96
30) Cyclohexane	7.15	84	750928	9.761	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	1007810	9.556	ppbv 97
32) 1,1,1-Trichloroethane	6.53	97	1633706	8.789	ppbv 100
34) 2-Butanone	5.24	43	1444790	9.365	ppbv 99
35) Carbon Tetrachloride	7.03	117	1747895	8.928	ppbv 94
36) Benzene	6.91	78	1774155	9.428	ppbv 99
37) 1,2-Dichloroethane	6.32	62	1369951	8.965	ppbv 100
38) Trichloroethene	7.86	130	735856	9.680	ppbv 98
39) 1,2-Dichloropropane	7.64	63	747693	9.663	ppbv 99
40) 1,4-Dioxane	7.86	88	237014	7.568	ppbv # 90
41) Tetrahydrofuran	6.05	42	796669	10.067	ppbv 99
42) Bromodichloromethane	7.82	83	1752279	9.319	ppbv 99
43) Methyl Methacrylate	8.04	69	774147	10.085	ppbv 99

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3211991	9.227	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1013794	10.253	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1146226	10.141	ppbv	96
47) 1,1,2-Trichloroethane	9.51	97	768252	9.007	ppbv	99
48) Dibromochloromethane	10.35	129	1464233	9.902	ppbv	99
49) Bromoform	13.10	173	1314697	9.821	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	2153755	9.617	ppbv	99
51) 2-Hexanone	10.17	43	1797296	9.942	ppbv #	99
52) Tetrachloroethene	11.27	164	688360	9.373	ppbv	95
53) Toluene	9.84	91	2080608	10.064	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1231000	9.917	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	992574	9.563	ppbv	99
57) Chlorobenzene	12.19	112	1625435	9.164	ppbv	100
58) Ethyl Benzene	12.76	91	2906761	10.025	ppbv	99
59) m/p-Xylene	13.05	91	4858841m	19.163	ppbv	
60) o-Xylene	13.74	91	2497751	9.817	ppbv	99
61) Styrene	13.58	104	1760956	10.123	ppbv	99
62) Isopropylbenzene	14.72	105	3272516	9.833	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1773538	8.689	ppbv	99
64) n-propylbenzene	15.62	120	850385	10.007	ppbv	99
65) tert-Butylbenzene	16.81	119	2981844	9.917	ppbv	100
66) Benzyl Chloride	17.05	91	1430642	10.856	ppbv	100
67) sec-Butylbenzene	17.35	105	4102043	9.714	ppbv	100
69) p-Isopropyltoluene	17.71	119	3463863	10.114	ppbv	99
70) n-Butylbenzene	18.61	91	3627017	9.815	ppbv	100
71) 2-Chlorotoluene	15.51	91	2589206	10.018	ppbv	100
72) 4-Ethyltoluene	15.90	105	2853487	10.022	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2759075	9.878	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	2868152	9.599	ppbv	96
75) 1,3-Dichlorobenzene	17.06	146	1626303	9.087	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1616813	9.383	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1587597	9.439	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1322266	8.282	ppbv	98
79) Naphthalene	22.28	128	2287449	10.164	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	480354	7.705	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.01	180	1325086	9.042	ppbv	99

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

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