

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034734.D
 Acq On : 28 Feb 2020 11:26
 Operator : SY/AP
 Sample : VL0228ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0228ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:11 PM

Quant Time: Mar 02 04:49:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1000852	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2057688	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2213764	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1805392	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1757909	11.134	ppbv	96
3) Chlorodifluoromethane	2.96	51	1095583	10.143	ppbv	100
4) Chloromethane	3.11	50	617147	10.207	ppbv	95
5) Vinyl Chloride	3.23	62	613472	10.342	ppbv	97
6) Bromomethane	3.45	94	350239	10.079	ppbv	96
7) Chloroethane	3.53	64	230222	10.455	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1388383	9.941	ppbv	98
9) Propene	2.97	41	453606	10.047	ppbv	98
10) Heptane	8.14	43	1268238	10.913	ppbv	98
11) Trichlorofluoromethane	3.93	101	1458738	10.548	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1002366	10.283	ppbv	100
13) Ethanol	3.58	45	101084	7.087	ppbv	97
14) Bromoethene	3.72	108	427104	10.501	ppbv	99
15) Acetone	3.83	43	1121395	9.833	ppbv	99
16) 1,3-Butadiene	3.30	39	565226	10.706	ppbv	98
17) tert-Butyl alcohol	4.28	59	776242	8.882	ppbv	98
18) 1,1-Dichloroethene	4.27	96	452941	10.350	ppbv	94
19) Isopropyl Alcohol	3.95	45	594948	8.758	ppbv	100
20) Methylene Chloride	4.33	84	404889	9.546	ppbv	98
21) Allyl Chloride	4.39	41	816342	10.819	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	454280	10.646	ppbv	97
23) Vinyl Acetate	5.07	43	1791748	11.556	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1257552	10.156	ppbv	99
25) Ethyl Acetate	5.67	43	2119105	10.496	ppbv	99
26) Hexane	5.69	57	956125	10.275	ppbv	99
27) Carbon Disulfide	4.54	76	1222294	11.572	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1433190	10.781	ppbv	100
29) Chloroform	5.75	83	1509619	10.183	ppbv	97
30) Cyclohexane	7.14	84	767456	10.642	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1004301	10.968	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1467584	10.601	ppbv	99
34) 2-Butanone	5.24	43	1416180	10.934	ppbv	99
35) Carbon Tetrachloride	7.03	117	1521691	11.042	ppbv	99
36) Benzene	6.90	78	1879297	10.574	ppbv	95
37) 1,2-Dichloroethane	6.31	62	1270194	11.338	ppbv	98
38) Trichloroethene	7.86	130	705673	10.301	ppbv	98
39) 1,2-Dichloropropane	7.63	63	754807	10.675	ppbv	98
40) 1,4-Dioxane	7.85	88	247868	10.309	ppbv	72
41) Tetrahydrofuran	6.05	42	785830	11.495	ppbv	99
42) Bromodichloromethane	7.81	83	1638386	11.171	ppbv	95
43) Methyl Methacrylate	8.03	69	834727	11.167	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3288886	10.589	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1061205	13.009	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1211970	12.389	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	782754	10.791	ppbv	98
48) Dibromochloromethane	10.34	129	1325815	11.754	ppbv	100
49) Bromoform	13.08	173	1177736	12.043	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2144759	11.692	ppbv	99
51) 2-Hexanone	10.16	43	1800765	12.474	ppbv #	99
52) Tetrachloroethene	11.26	164	663970	10.192	ppbv	96
53) Toluene	9.83	91	2143615	11.340	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1214420	11.222	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	946361	10.037	ppbv	94
57) Chlorobenzene	12.19	112	1633636	9.984	ppbv	97
58) Ethyl Benzene	12.74	91	2941534	10.983	ppbv	99
59) m/p-Xylene	13.03	91	4847487m	20.751	ppbv	
60) o-Xylene	13.73	91	2421366	10.445	ppbv	99
61) Styrene	13.57	104	1714824	11.516	ppbv	99
62) Isopropylbenzene	14.71	105	3379845	9.995	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1746025	9.664	ppbv	100
64) n-propylbenzene	15.60	120	880878	10.104	ppbv	94
65) tert-Butylbenzene	16.79	119	2939392	10.067	ppbv	98
66) Benzyl Chloride	17.04	91	1424136	13.075	ppbv	99
67) sec-Butylbenzene	17.34	105	4203888	10.005	ppbv	99
69) p-Isopropyltoluene	17.70	119	3456861	9.994	ppbv	99
70) n-Butylbenzene	18.60	91	3717428m	9.870	ppbv	
71) 2-Chlorotoluene	15.50	91	2693769	10.285	ppbv	99
72) 4-Ethyltoluene	15.88	105	2795907	10.836	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	2620493	10.558	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	2736994	9.985	ppbv	99
75) 1,3-Dichlorobenzene	17.05	146	1547768	9.782	ppbv	100
76) 1,4-Dichlorobenzene	17.19	146	1585391	10.015	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1514077	9.898	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1217249	9.139	ppbv	99
79) Naphthalene	22.27	128	2585278	10.717	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	896718	12.052	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.00	180	1387027	9.634	ppbv	99

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

