

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033813.D
 Acq On : 28 May 2019 21:14
 Operator : SY/AP
 Sample : VL0528ABS02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02

Manual Integrations
 APPROVED

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

Quant Time: May 29 05:47:09 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	843677	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2060070	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2185852m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1680308	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1506386	8.472	ppbv	99
3) Chlorodifluoromethane	3.01	51	959232	9.926	ppbv	99
4) Chloromethane	3.17	50	560657	10.143	ppbv	99
5) Vinyl Chloride	3.29	62	555896	9.873	ppbv	99
6) Bromomethane	3.51	94	347626	10.118	ppbv	92
7) Chloroethane	3.60	64	210090	10.499	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1462599	10.203	ppbv	100
9) Propene	3.03	41	413057	10.049	ppbv	99
10) Heptane	8.24	43	1130505	9.712	ppbv	100
11) Trichlorofluoromethane	4.00	101	1709650	10.075	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1145794	9.669	ppbv	98
13) Ethanol	3.65	45	96527	7.266	ppbv	99
14) Bromoethene	3.79	108	467167	10.724	ppbv	99
15) Acetone	3.90	43	1044912	8.927	ppbv	100
16) 1,3-Butadiene	3.36	39	502011	10.769	ppbv	99
17) tert-Butyl alcohol	4.35	59	989440	10.453	ppbv	100
18) 1,1-Dichloroethene	4.35	96	507894	10.154	ppbv	97
19) Isopropyl Alcohol	4.02	45	759386	10.061	ppbv	# 98
20) Methylene Chloride	4.40	84	424054	9.409	ppbv	100
21) Allyl Chloride	4.47	41	718126	9.836	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	514628	10.038	ppbv	97
23) Vinyl Acetate	5.15	43	1595943	10.340	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1141772	9.732	ppbv	98
25) Ethyl Acetate	5.76	43	1970664	9.584	ppbv	100
26) Hexane	5.78	57	872081	9.865	ppbv	99
27) Carbon Disulfide	4.62	76	1251915	10.323	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1482159	10.285	ppbv	100
29) Chloroform	5.85	83	1490709	9.155	ppbv	98
30) Cyclohexane	7.24	84	751980	10.118	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	888058	10.132	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1532471	9.425	ppbv	100
34) 2-Butanone	5.33	43	1271150	9.955	ppbv	100
35) Carbon Tetrachloride	7.13	117	1648559	9.990	ppbv	99
36) Benzene	7.00	78	1771030	9.451	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1137370	9.409	ppbv	100
38) Trichloroethene	7.96	130	763947	10.986	ppbv	99
39) 1,2-Dichloropropane	7.73	63	690182	9.879	ppbv	97
40) 1,4-Dioxane	7.95	88	292254	10.000	ppbv	# 96
41) Tetrahydrofuran	6.14	42	701449	9.804	ppbv	100
42) Bromodichloromethane	7.91	83	1690225	10.213	ppbv	98
43) Methyl Methacrylate	8.13	69	738420	10.707	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3150732	9.948	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	972758	11.126	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	1101839	10.763	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	763707	9.622	ppbv	98
48) Dibromochloromethane	10.45	129	1414199	10.283	ppbv	99
49) Bromoform	13.20	173	1302630	11.257	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	1952102	9.939	ppbv	100
51) 2-Hexanone	10.26	43	1598016	10.425	ppbv #	99
52) Tetrachloroethene	11.37	164	690422	10.481	ppbv	99
53) Toluene	9.94	91	2127223	10.524	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1220232	10.074	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	957069	9.462	ppbv	95
57) Chlorobenzene	12.30	112	1647811	9.158	ppbv	98
58) Ethyl Benzene	12.86	91	3025505	10.452	ppbv	98
59) m/p-Xylene	13.15	91	5085825m	20.099	ppbv	
60) o-Xylene	13.85	91	2586419	10.140	ppbv	99
61) Styrene	13.68	104	1999744	11.644	ppbv	99
62) Isopropylbenzene	14.82	105	3369199	9.808	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1811388	9.765	ppbv	100
64) n-propylbenzene	15.72	120	888501	9.999	ppbv	99
65) tert-Butylbenzene	16.90	119	3141706	10.017	ppbv	99
66) Benzyl Chloride	17.15	91	1577618	10.561	ppbv	100
67) sec-Butylbenzene	17.45	105	4438145	10.110	ppbv	100
69) p-Isopropyltoluene	17.81	119	3734574	10.293	ppbv	99
70) n-Butylbenzene	18.71	91	3953782	10.162	ppbv	100
71) 2-Chlorotoluene	15.61	91	2603009	10.214	ppbv	99
72) 4-Ethyltoluene	15.99	105	3023333	10.366	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2867377	10.077	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3026290	9.772	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	1766221	9.307	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	1747287	9.688	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1711369	9.598	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	992698	7.363	ppbv	99
79) Naphthalene	22.41	128	2304343	8.011	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	662106	6.058	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	1359304	8.070	ppbv	99

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

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