

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051419\
 Data File : VL033687.D
 Acq On : 14 May 2019 12:19
 Operator : SY/AP
 Sample : VL0514ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:41:00 AM

Quant Time: May 15 02:44:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	990252	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2352011	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2482752	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2038902	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1711419	7.369	ppbv 100
3) Chlorodifluoromethane	3.01	51	1117134	7.812	ppbv 99
4) Chloromethane	3.17	50	585785	7.879	ppbv 98
5) Vinyl Chloride	3.29	62	568289	7.862	ppbv 100
6) Bromomethane	3.51	94	385837	8.402	ppbv 100
7) Chloroethane	3.60	64	219499	8.365	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1509266	7.895	ppbv 99
9) Propene	3.03	41	447190	8.202	ppbv 99
10) Heptane	8.25	43	1331059	9.893	ppbv 99
11) Trichlorofluoromethane	4.00	101	1802475	8.311	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1218581	8.358	ppbv 99
13) Ethanol	3.65	45	119596	7.308	ppbv 100
14) Bromoethene	3.79	108	475386	8.272	ppbv 99
15) Acetone	3.90	43	1121567	7.613	ppbv 100
16) 1,3-Butadiene	3.36	39	520125	8.232	ppbv 100
17) tert-Butyl alcohol	4.35	59	1002212	8.957	ppbv 100
18) 1,1-Dichloroethene	4.35	96	532790	8.464	ppbv 99
19) Isopropyl Alcohol	4.02	45	770093	8.509	ppbv 100
20) Methylene Chloride	4.41	84	447471	8.000	ppbv 95
21) Allyl Chloride	4.48	41	776826	8.712	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	619715	9.807	ppbv 98
23) Vinyl Acetate	5.15	43	1944207	10.156	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1351234	9.331	ppbv 100
25) Ethyl Acetate	5.77	43	2333327	9.735	ppbv 100
26) Hexane	5.78	57	1022719	9.927	ppbv 99
27) Carbon Disulfide	4.62	76	1350246	9.582	ppbv 98
28) Methyl tert-Butyl Ether	5.11	73	1724830	9.940	ppbv 100
29) Chloroform	5.85	83	1767433	9.541	ppbv 100
30) Cyclohexane	7.25	84	891506	10.304	ppbv 100
31) cis-1,2-Dichloroethene	5.64	61	1063121	10.373	ppbv 97
32) 1,1,1-Trichloroethane	6.62	97	1856832	9.707	ppbv 99
34) 2-Butanone	5.33	43	1546586	10.269	ppbv 99
35) Carbon Tetrachloride	7.13	117	1997755	10.335	ppbv 99
36) Benzene	7.00	78	2179953	10.336	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1377363	9.360	ppbv 100
38) Trichloroethene	7.96	130	901793	11.656	ppbv 99
39) 1,2-Dichloropropane	7.73	63	795100	10.115	ppbv 99
40) 1,4-Dioxane	7.95	88	321205	10.225	ppbv 97
41) Tetrahydrofuran	6.15	42	859210	11.039	ppbv 99
42) Bromodichloromethane	7.92	83	1978431	10.413	ppbv 97
43) Methyl Methacrylate	8.14	69	902902	11.381	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3714775	10.301	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1202890	12.354	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1349862	11.108	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	900349	9.974	ppbv	98
48) Dibromochloromethane	10.45	129	1691136	11.052	ppbv	100
49) Bromoform	13.20	173	1538318	11.573	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2358426	10.341	ppbv	100
51) 2-Hexanone	10.27	43	1957242	11.078	ppbv #	100
52) Tetrachloroethene	11.37	164	848725	11.359	ppbv	96
53) Toluene	9.95	91	2561644	11.242	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1495576	10.999	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1153481	10.072	ppbv	99
57) Chlorobenzene	12.30	112	1999673	9.810	ppbv	97
58) Ethyl Benzene	12.86	91	3559170	10.993	ppbv	99
59) m/p-Xylene	13.15	91	5994713m	21.021	ppbv	
60) o-Xylene	13.85	91	3068799	10.633	ppbv	100
61) Styrene	13.68	104	2289256	11.912	ppbv	100
62) Isopropylbenzene	14.83	105	4117795	10.450	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2102983	10.012	ppbv	100
64) n-propylbenzene	15.72	120	1066415	10.472	ppbv	98
65) tert-Butylbenzene	16.91	119	3784013	10.468	ppbv	100
66) Benzyl Chloride	17.15	91	2209580	13.437	ppbv	99
67) sec-Butylbenzene	17.46	105	5310437	10.530	ppbv	100
69) p-Isopropyltoluene	17.81	119	4432428	10.666	ppbv	100
70) n-Butylbenzene	18.71	91	4636948	10.523	ppbv	100
71) 2-Chlorotoluene	15.61	91	3150044	10.820	ppbv	100
72) 4-Ethyltoluene	16.00	105	3623871	10.683	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3468125	10.574	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3632102	9.962	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	2137095	9.705	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2119698	10.143	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2022204	9.912	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1230709	7.612	ppbv	99
79) Naphthalene	22.41	128	3133244	9.413	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1058558	8.412	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1729451	8.943	ppbv	100

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

