

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033772.D
 Acq On : 23 May 2019 13:16
 Operator : SY/AP
 Sample : VL0523ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:53:20 AM

Quant Time: May 24 04:47:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 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	920082	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2153566	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2285203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1805362	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1595065	8.226	ppbv	100
3) Chlorodifluoromethane	3.01	51	1122770	10.653	ppbv	99
4) Chloromethane	3.17	50	644658	10.694	ppbv	98
5) Vinyl Chloride	3.29	62	648042	10.554	ppbv	100
6) Bromomethane	3.51	94	416734	11.123	ppbv	99
7) Chloroethane	3.59	64	246802	11.310	ppbv	99
8) Dichlorotetrafluoroethane	3.21	85	1662322	10.634	ppbv	99
9) Propene	3.03	41	497215	11.092	ppbv	98
10) Heptane	8.24	43	1339541	10.552	ppbv	100
11) Trichlorofluoromethane	4.00	101	1954381	10.561	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1329648	10.289	ppbv	99
13) Ethanol	3.64	45	87969	6.072	ppbv	97
14) Bromoethene	3.78	108	541490	11.397	ppbv	99
15) Acetone	3.89	43	1213735	9.508	ppbv	100
16) 1,3-Butadiene	3.36	39	568223	11.178	ppbv	98
17) tert-Butyl alcohol	4.35	59	1025529	9.935	ppbv	100
18) 1,1-Dichloroethene	4.35	96	586226	10.747	ppbv	98
19) Isopropyl Alcohol	4.02	45	738597	8.973	ppbv	99
20) Methylene Chloride	4.40	84	494630	10.064	ppbv	99
21) Allyl Chloride	4.47	41	856255	10.754	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	604258	10.807	ppbv	99
23) Vinyl Acetate	5.15	43	1908224	11.337	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1332070	10.411	ppbv	99
25) Ethyl Acetate	5.76	43	2296033	10.239	ppbv	100
26) Hexane	5.77	57	994102	10.312	ppbv	98
27) Carbon Disulfide	4.62	76	1483475	11.216	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1714626	10.910	ppbv	100
29) Chloroform	5.84	83	1741776	9.808	ppbv	100
30) Cyclohexane	7.24	84	846089	10.439	ppbv	100
31) cis-1,2-Dichloroethene	5.63	61	1049630	10.981	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1769521	9.980	ppbv	100
34) 2-Butanone	5.32	43	1487858	11.146	ppbv	99
35) Carbon Tetrachloride	7.13	117	1882094	10.910	ppbv	99
36) Benzene	7.00	78	2084332	10.640	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1325957	10.493	ppbv	100
38) Trichloroethene	7.95	130	907814	12.489	ppbv	98
39) 1,2-Dichloropropane	7.73	63	822222	11.258	ppbv	97
40) 1,4-Dioxane	7.95	88	303072	9.920	ppbv #	96
41) Tetrahydrofuran	6.14	42	838850	11.216	ppbv	99
42) Bromodichloromethane	7.91	83	1998217	11.550	ppbv	96
43) Methyl Methacrylate	8.13	69	868093	12.041	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3713670	11.217	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1141808	12.493	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1283373	11.992	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	884058	10.655	ppbv	99
48) Dibromochloromethane	10.44	129	1626921	11.317	ppbv	99
49) Bromoform	13.20	173	1488695	12.307	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2261606	11.015	ppbv	99
51) 2-Hexanone	10.26	43	1880608	11.736	ppbv #	99
52) Tetrachloroethene	11.36	164	799425	11.609	ppbv	96
53) Toluene	9.94	91	2466068	11.671	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1396638	11.030	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	1081794	10.230	ppbv	97
57) Chlorobenzene	12.30	112	1897254	10.086	ppbv	99
58) Ethyl Benzene	12.86	91	3451312	11.405	ppbv	100
59) m/p-Xylene	13.14	91	5831058m	22.043	ppbv	
60) o-Xylene	13.84	91	2868223	10.756	ppbv	99
61) Styrene	13.68	104	2138151	11.909	ppbv	99
62) Isopropylbenzene	14.82	105	3827725	10.659	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2014642	10.389	ppbv	100
64) n-propylbenzene	15.71	120	985328	10.607	ppbv	98
65) tert-Butylbenzene	16.90	119	3513295	10.715	ppbv	99
66) Benzyl Chloride	17.15	91	1819121	11.649	ppbv	100
67) sec-Butylbenzene	17.45	105	4852309	10.573	ppbv	100
69) p-Isopropyltoluene	17.81	119	4039181	10.649	ppbv	99
70) n-Butylbenzene	18.70	91	4175434	10.265	ppbv	99
71) 2-Chlorotoluene	15.61	91	2896461	10.871	ppbv	100
72) 4-Ethyltoluene	15.99	105	3341168	10.958	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3203998	10.770	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3365812	10.396	ppbv	100
75) 1,3-Dichlorobenzene	17.15	146	1929374	9.725	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1907536	10.116	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1860628	9.981	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1102761	7.824	ppbv	99
79) Naphthalene	22.40	128	2781437	9.249	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1142313	9.997	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	1568961	8.910	ppbv	100

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

