

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033663.D
 Acq On : 6 May 2019 17:51
 Operator : SY/AP
 Sample : VL0506ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:41 PM

Quant Time: May 07 04:19:52 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	961048	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2436096	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2611174m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2102602	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1574309	6.984	ppbv 99
3) Chlorodifluoromethane	3.01	51	1147035	8.265	ppbv 99
4) Chloromethane	3.17	50	639964	8.869	ppbv 100
5) Vinyl Chloride	3.29	62	626998	8.938	ppbv 96
6) Bromomethane	3.51	94	394035	8.842	ppbv 95
7) Chloroethane	3.60	64	231518	9.091	ppbv 97
8) Dichlorotetrafluoroethane	3.22	85	1637306	8.825	ppbv 100
9) Propene	3.03	41	490796	9.276	ppbv 100
10) Heptane	8.25	43	1374198	10.524	ppbv 99
11) Trichlorofluoromethane	4.00	101	1907979	9.065	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1313251	9.281	ppbv 100
13) Ethanol	3.65	45	99924	6.292	ppbv 100
14) Bromoethene	3.79	108	521377	9.348	ppbv 100
15) Acetone	3.90	43	1187523	8.306	ppbv 99
16) 1,3-Butadiene	3.36	39	561871	9.163	ppbv 98
17) tert-Butyl alcohol	4.35	59	1097003	10.102	ppbv 100
18) 1,1-Dichloroethene	4.35	96	569997	9.331	ppbv 97
19) Isopropyl Alcohol	4.02	45	798798	9.094	ppbv 100
20) Methylene Chloride	4.41	84	494791	9.114	ppbv 97
21) Allyl Chloride	4.48	41	849392	9.815	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	590324	9.626	ppbv 99
23) Vinyl Acetate	5.15	43	1887295	10.159	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1294110	9.208	ppbv 99
25) Ethyl Acetate	5.77	43	2193835	9.431	ppbv 100
26) Hexane	5.78	57	957309	9.574	ppbv 99
27) Carbon Disulfide	4.62	76	1452259	10.619	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1663297	9.877	ppbv 100
29) Chloroform	5.85	83	1677362	9.330	ppbv 97
30) Cyclohexane	7.25	84	876687	10.441	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1002345	10.077	ppbv 95
32) 1,1,1-Trichloroethane	6.62	97	1754508	9.451	ppbv 99
34) 2-Butanone	5.33	43	1469194	9.418	ppbv 100
35) Carbon Tetrachloride	7.13	117	1950412	9.742	ppbv 100
36) Benzene	7.00	78	2112161	9.669	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1329126	8.720	ppbv 99
38) Trichloroethene	7.96	130	868065	10.833	ppbv 98
39) 1,2-Dichloropropane	7.74	63	904963	11.116	ppbv 98
40) 1,4-Dioxane	7.95	88	302987	9.312	ppbv 91
41) Tetrahydrofuran	6.15	42	834059	10.346	ppbv 100
42) Bromodichloromethane	7.92	83	1900207	9.656	ppbv 99
43) Methyl Methacrylate	8.14	69	872361	10.617	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3602290	9.645	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1222509	12.122	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1352262	10.744	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	889705	9.516	ppbv	99
48) Dibromochloromethane	10.45	129	1660234	10.475	ppbv	100
49) Bromoform	13.20	173	1484993	10.786	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2349977	9.949	ppbv	99
51) 2-Hexanone	10.27	43	1941353	10.608	ppbv	100
52) Tetrachloroethene	11.37	164	830345	10.729	ppbv	99
53) Toluene	9.95	91	2549887	10.804	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1425300	10.120	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1125750	9.346	ppbv #	61
57) Chlorobenzene	12.30	112	2002827	9.342	ppbv	99
58) Ethyl Benzene	12.86	91	3567627	10.477	ppbv	97
59) m/p-Xylene	13.15	91	5971904m	19.911	ppbv	
60) o-Xylene	13.85	91	3030940	9.986	ppbv	100
61) Styrene	13.68	104	2251426	11.139	ppbv	100
62) Isopropylbenzene	14.83	105	3966155	9.570	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2042455	9.246	ppbv	100
64) n-propylbenzene	15.72	120	1018034	9.505	ppbv	99
65) tert-Butylbenzene	16.91	119	3529288	9.283	ppbv	99
66) Benzyl Chloride	17.16	91	1967747	11.378	ppbv	100
67) sec-Butylbenzene	17.46	105	4948804	9.330	ppbv	100
69) p-Isopropyltoluene	17.81	119	4168251	9.537	ppbv	100
70) n-Butylbenzene	18.71	91	4378598	9.448	ppbv	100
71) 2-Chlorotoluene	15.62	91	2951057	9.638	ppbv	100
72) 4-Ethyltoluene	16.00	105	3453696	9.680	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3282261	9.515	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3437881	8.966	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2000527	8.638	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2017324	9.178	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1941271	9.048	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1339092	7.875	ppbv	100
79) Naphthalene	22.41	128	3959881	11.311	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	2636402	19.920	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2105392	10.351	ppbv	99

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

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