

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034308.D
 Acq On : 16 Oct 2019 21:25
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:38 PM

Quant Time: Oct 17 05:59:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:59:25 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1134271	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.24	114	2226558	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.18	117	2440832m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1983738	9.60	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1469364	7.514	ppbv 100
3) Chlorodifluoromethane	2.98	51	1291894	9.717	ppbv 100
4) Chloromethane	3.13	50	804048	10.224	ppbv 100
5) Vinyl Chloride	3.25	62	732753	9.772	ppbv 97
6) Bromomethane	3.47	94	377489	10.281	ppbv 95
7) Chloroethane	3.56	64	270848	10.263	ppbv 98
8) Dichlorotetrafluoroethane	3.18	85	1617088	9.544	ppbv 99
9) Propene	3.00	41	606780	10.296	ppbv 98
10) Heptane	8.19	43	1583304	10.467	ppbv 100
11) Trichlorofluoromethane	3.96	101	1781986	9.598	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1194981	9.825	ppbv 99
13) Ethanol	3.61	45	126304	9.572	ppbv 97
14) Bromoethene	3.75	108	501691	10.476	ppbv 98
15) Acetone	3.86	43	1358130	8.371	ppbv 99
16) 1,3-Butadiene	3.32	39	695317	10.548	ppbv 100
17) tert-Butyl alcohol	4.31	59	1222234	11.804	ppbv 99
18) 1,1-Dichloroethene	4.31	96	539733	10.135	ppbv 95
19) Isopropyl Alcohol	3.98	45	1014921	11.214	ppbv 100
20) Methylene Chloride	4.36	84	475440	8.106	ppbv 90
21) Allyl Chloride	4.43	41	954488	10.642	ppbv 99
22) trans-1,2-Dichloroethene	4.92	96	554808	10.445	ppbv 98
23) Vinyl Acetate	5.11	43	2189207	10.805	ppbv 98
24) 1,1-Dichloroethane	5.04	63	1504405	10.005	ppbv 99
25) Ethyl Acetate	5.72	43	2693251	9.833	ppbv 99
26) Hexane	5.73	57	1140051	9.765	ppbv 99
27) Carbon Disulfide	4.57	76	1382319	11.405	ppbv 100
28) Methyl tert-Butyl Ether	5.06	73	1884910	10.668	ppbv 100
29) Chloroform	5.80	83	1813042	9.818	ppbv 95
30) Cyclohexane	7.20	84	910216m	10.601	ppbv
31) cis-1,2-Dichloroethene	5.59	61	1258102	10.618	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	1807581	10.065	ppbv 100
34) 2-Butanone	5.28	43	1836037	10.088	ppbv 100
35) Carbon Tetrachloride	7.08	117	1887898	9.735	ppbv 97
36) Benzene	6.95	78	2173976	10.176	ppbv 99
37) 1,2-Dichloroethane	6.36	62	1595942	10.024	ppbv 99
38) Trichloroethene	7.91	130	823120	9.602	ppbv 91
39) 1,2-Dichloropropane	7.68	63	929495	10.104	ppbv 99
40) 1,4-Dioxane	7.90	88	338216	10.462	ppbv # 1
41) Tetrahydrofuran	6.10	42	1066428	10.558	ppbv 99
42) Bromodichloromethane	7.86	83	2001832	10.265	ppbv 100
43) Methyl Methacrylate	8.08	69	955353	10.813	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3913059	9.896	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1275376	11.847	ppbv	100
46) cis-1,3-Dichloropropene	8.78	75	1449348	11.719	ppbv	96
47) 1,1,2-Trichloroethane	9.56	97	917571	9.848	ppbv	95
48) Dibromochloromethane	10.39	129	1652506	10.812	ppbv	100
49) Bromoform	13.15	173	1523601	11.249	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	2715266	10.422	ppbv	100
51) 2-Hexanone	10.21	43	2312670	10.828	ppbv #	99
52) Tetrachloroethene	11.31	164	815464	9.738	ppbv	99
53) Toluene	9.89	91	2494730	10.582	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1406183	10.182	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	1100356m	9.782	ppbv	
57) Chlorobenzene	12.24	112	1911309	9.386	ppbv	99
58) Ethyl Benzene	12.81	91	3469170	10.167	ppbv	98
59) m/p-Xylene	13.09	91	5635940m	19.064	ppbv	
60) o-Xylene	13.79	91	2863688	9.728	ppbv	99
61) Styrene	13.63	104	2135398	10.304	ppbv	99
62) Isopropylbenzene	14.77	105	3722100	9.578	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	2044204	8.641	ppbv	99
64) n-propylbenzene	15.67	120	995480	9.982	ppbv	99
65) tert-Butylbenzene	16.85	119	3347389	9.719	ppbv	100
66) Benzyl Chloride	17.10	91	1716402	12.618	ppbv	100
67) sec-Butylbenzene	17.40	105	4619955	9.532	ppbv	100
69) p-Isopropyltoluene	17.76	119	3879394	9.817	ppbv	99
70) n-Butylbenzene	18.66	91	4164164	9.686	ppbv	100
71) 2-Chlorotoluene	15.56	91	2976229	9.877	ppbv	99
72) 4-Ethyltoluene	15.94	105	3327201	10.055	ppbv	100
73) 1,3,5-Trimethylbenzene	16.10	105	3185040	9.714	ppbv	95
74) 1,2,4-Trimethylbenzene	16.87	105	3294706	9.636	ppbv	99
75) 1,3-Dichlorobenzene	17.11	146	1907705	9.293	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1942721	9.689	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1874358	9.313	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1360642	8.173	ppbv	100
79) Naphthalene	22.34	128	2858113	11.443	ppbv	100
80) Naphthalene, 2-methyl-	25.07	142	948128	13.133	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1720167	10.545	ppbv	100

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

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