

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032484.D
 Acq On : 10 Sep 2018 18:07
 Operator : SY/AP
 Sample : VL0910ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:34 PM

Quant Time: Sep 11 01:32:33 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1567413	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3944410	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	3769330m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2859555	10.22	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	1449257	7.23	ppbv	98
3) Chlorodifluoromethane	3.04	51	1226282	8.64	ppbv	99
4) Chloromethane	3.19	50	729260	8.49	ppbv	99
5) Vinyl Chloride	3.32	62	686108	8.09	ppbv	97
6) Bromomethane	3.54	94	382457	8.59	ppbv	98
7) Chloroethane	3.63	64	253120	8.62	ppbv	98
8) Dichlorotetrafluoroethane	3.25	85	1451425	8.16	ppbv	100
9) Propene	3.06	41	606281	10.59	ppbv	100
10) Heptane	8.29	43	2338714	11.39	ppbv	100
11) Trichlorofluoromethane	4.04	101	1463642	8.10	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1218657	9.95	ppbv	100
13) Ethanol	3.68	45	142152	7.97	ppbv	97
14) Bromoethene	3.82	108	462112	8.90	ppbv	99
15) Acetone	3.93	43	1139020	8.07	ppbv	99
16) 1,3-Butadiene	3.39	39	575668	8.67	ppbv	93
17) tert-Butyl alcohol	4.39	59	189821	8.74	ppbv #	100
18) 1,1-Dichloroethene	4.38	96	605934	10.82	ppbv	95
19) Isopropyl Alcohol	4.05	45	887273	9.58	ppbv #	98
20) Methylene Chloride	4.44	84	540114	10.04	ppbv	96
21) Allyl Chloride	4.51	41	1053140	11.23	ppbv	99
22) trans-1,2-Dichloroethene	5.00	96	585091	9.63	ppbv	98
23) Vinyl Acetate	5.19	43	2662300	11.38	ppbv	99
24) 1,1-Dichloroethane	5.13	63	1884249	9.77	ppbv	99
25) Ethyl Acetate	5.81	43	3139700	9.42	ppbv	100
26) Hexane	5.82	57	1450201	9.72	ppbv	99
27) Carbon Disulfide	4.65	76	1521539	11.04	ppbv	99
28) Methyl tert-Butyl Ether	5.15	73	2055361	11.22	ppbv	99
29) Chloroform	5.89	83	2108064	9.26	ppbv	100
30) Cyclohexane	7.29	84	1427716	13.06	ppbv	99
31) cis-1,2-Dichloroethene	5.68	61	1459595	10.80	ppbv	99
32) 1,1,1-Trichloroethane	6.66	97	2025196	9.55	ppbv	99
34) 2-Butanone	5.36	43	2133860	8.14	ppbv	99
35) Carbon Tetrachloride	7.18	117	2360676	8.90	ppbv	99
36) Benzene	7.05	78	3187472	9.50	ppbv	99
37) 1,2-Dichloroethane	6.45	62	1603527	7.80	ppbv	100
38) Trichloroethene	8.00	130	1157608	9.08	ppbv	98
39) 1,2-Dichloropropane	7.78	63	1384645	9.64	ppbv	97
40) 1,4-Dioxane	8.00	88	448543	10.41	ppbv #	1
41) Tetrahydrofuran	6.18	42	1295466	9.08	ppbv	100
42) Bromodichloromethane	7.96	83	2658420	9.37	ppbv	99
43) Methyl Methacrylate	8.18	69	1418012	9.96	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.03	57	6032045	9.29	ppbv	99
45) t-1,3-Dichloropropene	9.46	75	1808087	11.87	ppbv	97
46) cis-1,3-Dichloropropene	8.88	75	2050942	10.53	ppbv	98
47) 1,1,2-Trichloroethane	9.66	97	1405559	9.21	ppbv	98
48) Dibromochloromethane	10.50	129	2224583	10.52	ppbv	100
49) Bromoform	13.25	173	1635260	8.90	ppbv	99
50) 4-Methyl-2-Pentanone	8.91	43	3543865	8.98	ppbv	99
51) 2-Hexanone	10.32	43	3083831	12.13	ppbv #	100
52) Tetrachloroethene	11.42	164	946382	9.09	ppbv	98
53) Toluene	9.99	91	3935418	11.22	ppbv	99
54) 1,2-Dibromoethane	10.81	107	2065218	10.07	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.33	131	1420056	8.36	ppbv	97
57) Chlorobenzene	12.35	112	2611469	8.67	ppbv	99
58) Ethyl Benzene	12.91	91	4720501	10.47	ppbv	99
59) m/p-Xylene	13.20	91	7706919m	19.16	ppbv	
60) o-Xylene	13.89	91	3769171	9.54	ppbv	99
61) Styrene	13.73	104	2816016	11.01	ppbv	99
62) Isopropylbenzene	14.87	105	5321558	9.58	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.89	83	2794454	7.91	ppbv	100
64) n-propylbenzene	15.77	120	1380381	9.51	ppbv	98
65) tert-Butylbenzene	16.96	119	4448973	9.30	ppbv	99
66) Benzyl Chloride	17.20	91	2630844	9.87	ppbv	99
67) sec-Butylbenzene	17.50	105	6598118	9.17	ppbv	99
69) p-Isopropyltoluene	17.87	119	5260428	9.43	ppbv	100
70) n-Butylbenzene	18.76	91	5730482	9.06	ppbv	99
71) 2-Chlorotoluene	15.66	91	4151729	9.79	ppbv	99
72) 4-Ethyltoluene	16.05	105	4311404	10.00	ppbv	99
73) 1,3,5-Trimethylbenzene	16.20	105	4091401	9.47	ppbv	96
74) 1,2,4-Trimethylbenzene	16.97	105	4140350	8.76	ppbv	96
75) 1,3-Dichlorobenzene	17.21	146	2279589	8.13	ppbv	100
76) 1,4-Dichlorobenzene	17.35	146	2282150	8.78	ppbv	99
77) 1,2-Dichlorobenzene	18.04	146	2251483	8.33	ppbv	100
78) Hexachloro-1,3-Butadiene	23.59	225	693252	6.86	ppbv	100
79) Naphthalene	22.47	128	3448271	8.98	ppbv	100
80) Naphthalene, 2-methyl-	25.15	142	1094455	10.71	ppbv	100
81) 1,2,4-Trichlorobenzene	22.19	180	1634423m	8.45	ppbv	

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

