

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032420.D
 Acq On : 21 Aug 2018 12:30
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:52 PM

Quant Time: Aug 22 05:20:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1779804	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3454790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3769330	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2675351	9.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	1690152	11.91	ppbv	99
3) Chlorodifluoromethane	3.04	51	1689475	10.25	ppbv	100
4) Chloromethane	3.20	50	1056213	10.76	ppbv	97
5) Vinyl Chloride	3.32	62	1007192	10.77	ppbv	99
6) Bromomethane	3.55	94	560058	11.17	ppbv	98
7) Chloroethane	3.64	64	360789	11.00	ppbv	100
8) Dichlorotetrafluoroethane	3.25	85	2089882	10.39	ppbv	99
9) Propene	3.07	41	815426	11.56	ppbv	100
10) Heptane	8.31	43	2494563	11.74	ppbv	100
11) Trichlorofluoromethane	4.04	101	2010706	10.10	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1506957	11.24	ppbv	98
13) Ethanol	3.68	45	186899	10.31	ppbv	98
14) Bromoethene	3.83	108	628594	10.84	ppbv	100
15) Acetone	3.94	43	1551081	9.17	ppbv	99
16) 1,3-Butadiene	3.40	39	916011	13.12	ppbv #	79
17) tert-Butyl alcohol	4.40	59	756051	26.65	ppbv	98
18) 1,1-Dichloroethene	4.39	96	664119	10.63	ppbv	92
19) Isopropyl Alcohol	4.06	45	1259263	11.06	ppbv	100
20) Methylene Chloride	4.45	84	632103	9.90	ppbv	94
21) Allyl Chloride	4.52	41	1268232	11.88	ppbv	99
22) trans-1,2-Dichloroethene	5.01	96	636307	10.10	ppbv	97
23) Vinyl Acetate	5.20	43	2975746	10.19	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2042102	9.69	ppbv	99
25) Ethyl Acetate	5.82	43	4059250	11.20	ppbv	100
26) Hexane	5.83	57	1895062	11.73	ppbv	98
27) Carbon Disulfide	4.66	76	1935199	12.83	ppbv	99
28) Methyl tert-Butyl Ether	5.16	73	2479335	11.56	ppbv	100
29) Chloroform	5.90	83	2717776	11.48	ppbv	98
30) Cyclohexane	7.30	84	1401579	11.39	ppbv	98
31) cis-1,2-Dichloroethene	5.69	61	1751604	11.08	ppbv	97
32) 1,1,1-Trichloroethane	6.67	97	2513203	10.91	ppbv	99
34) 2-Butanone	5.38	43	2510274	10.68	ppbv	99
35) Carbon Tetrachloride	7.19	117	2375125	11.66	ppbv	98
36) Benzene	7.06	78	3646062	12.45	ppbv	99
37) 1,2-Dichloroethane	6.47	62	1927003	10.84	ppbv	100
38) Trichloroethene	8.02	130	1224280	11.92	ppbv	98
39) 1,2-Dichloropropane	7.79	63	1464272	11.97	ppbv	98
40) 1,4-Dioxane	8.01	88	442883	11.92	ppbv	73
41) Tetrahydrofuran	6.20	42	1628455	12.90	ppbv	99
42) Bromodichloromethane	7.97	83	2796014	12.02	ppbv	100
43) Methyl Methacrylate	8.19	69	1465523	12.56	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6348216	12.02	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	2042693	13.84	ppbv	100
46) cis-1,3-Dichloropropene	8.89	75	2420439	13.67	ppbv	98
47) 1,1,2-Trichloroethane	9.67	97	1511331	11.22	ppbv	98
48) Dibromochloromethane	10.51	129	2113610	11.74	ppbv	99
49) Bromoform	13.26	173	1733821	11.59	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	4113938	12.11	ppbv	100
51) 2-Hexanone	10.33	43	2775081	11.64	ppbv #	99
52) Tetrachloroethene	11.43	164	1008081	11.67	ppbv	98
53) Toluene	10.01	91	4172990	13.00	ppbv	100
54) 1,2-Dibromoethane	10.82	107	1971568	11.40	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.34	131	1535742	9.85	ppbv #	62
57) Chlorobenzene	12.37	112	2759246	9.72	ppbv	99
58) Ethyl Benzene	12.93	91	5181147	11.42	ppbv	99
59) m/p-Xylene	13.21	91	8636288m	22.42	ppbv	
60) o-Xylene	13.91	91	4071165	10.75	ppbv	99
61) Styrene	13.75	104	3178998	12.01	ppbv	100
62) Isopropylbenzene	14.89	105	5613404	10.41	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	2940599	9.24	ppbv	100
64) n-propylbenzene	15.79	120	1457356	10.45	ppbv	98
65) tert-Butylbenzene	16.97	119	4593911	9.98	ppbv	99
66) Benzyl Chloride	17.22	91	3077332	11.29	ppbv	99
67) sec-Butylbenzene	17.52	105	6841755	9.99	ppbv	99
69) p-Isopropyltoluene	17.88	119	5566645	10.62	ppbv	100
70) n-Butylbenzene	18.78	91	5903895	10.28	ppbv	99
71) 2-Chlorotoluene	15.68	91	4309252	10.33	ppbv	100
72) 4-Ethyltoluene	16.06	105	4637489	10.98	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	4343100	10.69	ppbv	100
74) 1,2,4-Trimethylbenzene	16.99	105	4291416	9.93	ppbv	98
75) 1,3-Dichlorobenzene	17.23	146	2362573	9.10	ppbv	100
76) 1,4-Dichlorobenzene	17.37	146	2365382	9.61	ppbv	100
77) 1,2-Dichlorobenzene	18.05	146	2352644	9.48	ppbv	99
78) Hexachloro-1,3-Butadiene	23.60	225	1372119	16.47	ppbv	100
79) Naphthalene	22.48	128	3985985	9.87	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1840845	21.35	ppbv	99
81) 1,2,4-Trichlorobenzene	22.20	180	1809170	10.82	ppbv	99

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

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