

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032151.D
 Acq On : 29 Jun 2018 21:55
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:11 PM

Quant Time: Jun 29 22:25:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 20:36:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1592187	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.39	114	4242075	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.35	117	4053219m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.69	95	3060193	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2258470	13.53	ppbv	100
3) Chlorodifluoromethane	3.07	51	2533569	12.26	ppbv	96
4) Chloromethane	3.23	50	1433312	12.98	ppbv	100
5) Vinyl Chloride	3.35	62	1397846	12.27	ppbv	98
6) Bromomethane	3.58	94	826530	12.49	ppbv	98
7) Chloroethane	3.67	64	504592	11.95	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	2884521	12.56	ppbv	97
9) Propene	3.09	41	1188464	11.77	ppbv	98
10) Heptane	8.35	43	3467517	12.11	ppbv	99
11) Trichlorofluoromethane	4.08	101	2912085	13.24	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1933051	12.98	ppbv	97
13) Ethanol	3.72	45	287062	9.44	ppbv	99
14) Bromoethene	3.86	108	981531	13.45	ppbv	98
15) Acetone	3.97	43	2352811	11.12	ppbv	100
16) 1,3-Butadiene	3.42	39	1275131	12.83	ppbv	90
17) tert-Butyl alcohol	4.44	59	1495996	11.76	ppbv	99
18) 1,1-Dichloroethene	4.43	96	939116	12.84	ppbv	99
19) Isopropyl Alcohol	4.10	45	1876208	11.30	ppbv	94
20) Methylene Chloride	4.49	84	831285	11.63	ppbv	99
21) Allyl Chloride	4.56	41	1722018	13.12	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	1036673	13.93	ppbv	97
23) Vinyl Acetate	5.24	43	4524003	14.05	ppbv	98
24) 1,1-Dichloroethane	5.18	63	2774827	11.45	ppbv	99
25) Ethyl Acetate	5.86	43	5075165	10.94	ppbv	100
26) Hexane	5.87	57	2273245	11.05	ppbv	94
27) Carbon Disulfide	4.70	76	2479439	12.06	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3920528	15.07	ppbv	100
29) Chloroform	5.94	83	3530125	13.00	ppbv	99
30) Cyclohexane	7.34	84	2277316	13.45	ppbv	98
31) cis-1,2-Dichloroethene	5.73	61	2468194	13.48	ppbv	98
32) 1,1,1-Trichloroethane	6.71	97	3650151	12.90	ppbv	99
34) 2-Butanone	5.41	43	3636889	10.56	ppbv	100
35) Carbon Tetrachloride	7.23	117	3793204	12.88	ppbv	99
36) Benzene	7.10	78	5439646	11.83	ppbv	97
37) 1,2-Dichloroethane	6.50	62	2850968	12.05	ppbv	99
38) Trichloroethene	8.06	130	1816187	10.24	ppbv	96
39) 1,2-Dichloropropane	7.84	63	2118168	12.54	ppbv	95
40) 1,4-Dioxane	8.05	88	687842	8.74	ppbv #	1
41) Tetrahydrofuran	6.24	42	2151107	10.46	ppbv	99
42) Bromodichloromethane	8.02	83	4223275	13.20	ppbv	99
43) Methyl Methacrylate	8.24	69	2246607	12.35	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	8593676	11.38	ppbv	98
45) t-1,3-Dichloropropene	9.52	75	3049917	13.55	ppbv	100
46) cis-1,3-Dichloropropene	8.94	75	3493546	12.13	ppbv	99
47) 1,1,2-Trichloroethane	9.72	97	2205693	11.54	ppbv	99
48) Dibromochloromethane	10.56	129	3442471	12.03	ppbv	99
49) Bromoform	13.32	173	2843851	12.98	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	5755971	10.78	ppbv	99
51) 2-Hexanone	10.38	43	4746020	8.93	ppbv	100
52) Tetrachloroethene	11.48	164	1661507	9.77	ppbv	96
53) Toluene	10.05	91	6124854	11.03	ppbv	100
54) 1,2-Dibromoethane	10.87	107	3274881	11.58	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.39	131	2277440	12.64	ppbv	87
57) Chlorobenzene	12.41	112	4312785	11.23	ppbv	97
58) Ethyl Benzene	12.97	91	8186040	11.59	ppbv	98
59) m/p-Xylene	13.26	91	12800543m	22.91	ppbv	
60) o-Xylene	13.96	91	6193895	11.17	ppbv	97
61) Styrene	13.80	104	5420802	32.74	ppbv	95
62) Isopropylbenzene	14.94	105	9177029	12.42	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	4385821	10.19	ppbv	100
64) n-propylbenzene	15.83	120	2442371	12.69	ppbv	94
65) tert-Butylbenzene	17.02	119	7550903	11.61	ppbv	95
66) Benzyl Chloride	17.27	91	5621540	67.74	ppbv	97
67) sec-Butylbenzene	17.57	105	11123179	11.73	ppbv	99
69) p-Isopropyltoluene	17.93	119	9137774	11.76	ppbv	97
70) n-Butylbenzene	18.82	91	9783667	11.97	ppbv	99
71) 2-Chlorotoluene	15.73	91	7309395	12.90	ppbv	96
72) 4-Ethyltoluene	16.11	105	7977882	12.75	ppbv	98
73) 1,3,5-Trimethylbenzene	16.27	105	7483895	13.36	ppbv	97
74) 1,2,4-Trimethylbenzene	17.04	105	7114855	11.95	ppbv	96
75) 1,3-Dichlorobenzene	17.28	146	4007055	11.00	ppbv	97
76) 1,4-Dichlorobenzene	17.42	146	4245430	11.46	ppbv	97
77) 1,2-Dichlorobenzene	18.10	146	4174770	11.02	ppbv	98
78) Hexachloro-1,3-Butadiene	23.64	225	1463308	14.19	ppbv	99
79) Naphthalene	22.54	128	8159418	13.12	ppbv	100
80) Naphthalene, 2-methyl-	25.20	142	4302129	11.55	ppbv	97
81) 1,2,4-Trichlorobenzene	22.26	180	3584952	14.72	ppbv	100

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

