

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032315.D
 Acq On : 27 Jul 2018 4:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:03 AM

Quant Time: Jul 27 06:49:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1997261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4201344	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5111023m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4038924	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.12	85	2344412	7.49	ppbv	97
3) Chlorodifluoromethane	3.06	51	2769442	12.42	ppbv	99
4) Chloromethane	3.22	50	1740039	13.19	ppbv	100
5) Vinyl Chloride	3.34	62	1613059	12.92	ppbv	97
6) Bromomethane	3.57	94	857905	12.69	ppbv	96
7) Chloroethane	3.65	64	566409	12.85	ppbv	100
8) Dichlorotetrafluoroethane	3.27	85	3140325	11.46	ppbv	99
9) Propene	3.08	41	1396539	14.29	ppbv	99
10) Heptane	8.33	43	4820114	15.39	ppbv	98
11) Trichlorofluoromethane	4.06	101	3063597	11.70	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	2151930	12.74	ppbv	99
13) Ethanol	3.70	45	266718	9.49	ppbv	98
14) Bromoethene	3.84	108	989601	13.01	ppbv	100
15) Acetone	3.96	43	2487654	12.07	ppbv	100
16) 1,3-Butadiene	3.41	39	1392068	13.21	ppbv	98
17) tert-Butyl alcohol	4.42	59	833786	12.56	ppbv	100
18) 1,1-Dichloroethene	4.41	96	1062070	13.40	ppbv	95
19) Isopropyl Alcohol	4.08	45	1629578	11.51	ppbv	100
20) Methylene Chloride	4.47	84	991373	12.24	ppbv	96
21) Allyl Chloride	4.54	41	1958349	14.16	ppbv	100
22) trans-1,2-Dichloroethene	5.03	96	1005115	12.33	ppbv	99
23) Vinyl Acetate	5.22	43	5113318	13.73	ppbv	99
24) 1,1-Dichloroethane	5.16	63	3315531	12.30	ppbv	99
25) Ethyl Acetate	5.84	43	5849964	12.90	ppbv	99
26) Hexane	5.85	57	2670145	12.83	ppbv	99
27) Carbon Disulfide	4.68	76	2719062	14.73	ppbv	100
28) Methyl tert-Butyl Ether	5.18	73	3904109	12.82	ppbv	100
29) Chloroform	5.93	83	3846397	12.64	ppbv	99
30) Cyclohexane	7.33	84	2230993	12.88	ppbv	99
31) cis-1,2-Dichloroethene	5.71	61	2752997	13.76	ppbv	98
32) 1,1,1-Trichloroethane	6.70	97	3743737	12.14	ppbv	100
34) 2-Butanone	5.40	43	4152628	14.29	ppbv	100
35) Carbon Tetrachloride	7.22	117	3612372	12.57	ppbv	99
36) Benzene	7.09	78	5423692	13.06	ppbv	99
37) 1,2-Dichloroethane	6.49	62	3121160	12.87	ppbv	100
38) Trichloroethene	8.04	130	2198522	15.64	ppbv	96
39) 1,2-Dichloropropane	7.82	63	2786653	16.27	ppbv	98
40) 1,4-Dioxane	8.03	88	694137	13.78	ppbv	60
41) Tetrahydrofuran	6.22	42	2559142	15.27	ppbv	100
42) Bromodichloromethane	8.00	83	5173315	16.11	ppbv	100
43) Methyl Methacrylate	8.22	69	2952826	17.32	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	11306406	15.37	ppbv	98
45) t-1,3-Dichloropropene	9.50	75	3719636	18.00	ppbv	99
46) cis-1,3-Dichloropropene	8.92	75	4308047	16.81	ppbv	100
47) 1,1,2-Trichloroethane	9.70	97	2645915	14.83	ppbv	98
48) Dibromochloromethane	10.55	129	4129258	15.74	ppbv	100
49) Bromoform	13.30	173	3372122	14.75	ppbv	100
50) 4-Methyl-2-Pentanone	8.95	43	7379919	15.39	ppbv	100
51) 2-Hexanone	10.36	43	6131564	16.24	ppbv	99
52) Tetrachloroethene	11.46	164	1940684	13.55	ppbv	98
53) Toluene	10.03	91	6228405	12.38	ppbv	100
54) 1,2-Dibromoethane	10.85	107	3960156	14.96	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.37	131	2833199	12.51	ppbv	94
57) Chlorobenzene	12.39	112	5254580	12.55	ppbv	98
58) Ethyl Benzene	12.95	91	9727577	13.73	ppbv	98
59) m/p-Xylene	13.24	91	15418972m	25.23	ppbv	
60) o-Xylene	13.94	91	7516141	12.34	ppbv	99
61) Styrene	13.77	104	6380607	14.26	ppbv	100
62) Isopropylbenzene	14.92	105	10671855	12.38	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.93	83	5639840	10.84	ppbv	100
64) n-propylbenzene	15.81	120	2882548	13.03	ppbv	94
65) tert-Butylbenzene	17.00	119	8630633	11.73	ppbv	100
66) Benzyl Chloride	17.25	91	6385096	15.49	ppbv	99
67) sec-Butylbenzene	17.55	105	12967723	11.79	ppbv	99
69) p-Isopropyltoluene	17.91	119	10437290	12.26	ppbv	99
70) n-Butylbenzene	18.81	91	11714891	12.33	ppbv	99
71) 2-Chlorotoluene	15.71	91	8671900	12.59	ppbv	99
72) 4-Ethyltoluene	16.09	105	9053648	13.06	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	8550200	12.61	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	8210972	11.52	ppbv	94
75) 1,3-Dichlorobenzene	17.26	146	4620377	11.62	ppbv	99
76) 1,4-Dichlorobenzene	17.40	146	4859745	12.34	ppbv	100
77) 1,2-Dichlorobenzene	18.08	146	4818232	12.51	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	1502265	11.87	ppbv	99
79) Naphthalene	22.52	128	8400924	13.89	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	4246976	16.53	ppbv	100
81) 1,2,4-Trichlorobenzene	22.24	180	3966046	13.40	ppbv	99

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

