

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032354.D
 Acq On : 15 Aug 2018 13:56
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:33 PM

Quant Time: Aug 15 14:36:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2389700	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.36	114	5079240	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.31	117	5040209m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	3724387	9.52	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	2867732	9.95	ppbv	96
3) Chlorodifluoromethane	3.05	51	2991945	12.52	ppbv	99
4) Chloromethane	3.21	50	1817080	12.56	ppbv	99
5) Vinyl Chloride	3.33	62	1730344	13.16	ppbv	98
6) Bromomethane	3.56	94	960545	13.30	ppbv	94
7) Chloroethane	3.64	64	613858	13.13	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	3362125	11.55	ppbv	99
9) Propene	3.07	41	1480938	13.78	ppbv	99
10) Heptane	8.31	43	4407089	11.69	ppbv	99
11) Trichlorofluoromethane	4.05	101	3497694	12.70	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.60	101	2358669	12.55	ppbv	100
13) Ethanol	3.69	45	289194	9.37	ppbv	99
14) Bromoethene	3.83	108	1074964	13.03	ppbv	99
15) Acetone	3.95	43	2781466	12.35	ppbv	99
16) 1,3-Butadiene	3.40	39	1387380	11.88	ppbv	92
17) tert-Butyl alcohol	4.41	59	481194	6.72	ppbv	98
18) 1,1-Dichloroethene	4.40	96	1162863	13.33	ppbv	99
19) Isopropyl Alcohol	4.07	45	1962712	13.06	ppbv	99
20) Methylene Chloride	4.46	84	1027438	11.35	ppbv	98
21) Allyl Chloride	4.53	41	2129301	13.86	ppbv	99
22) trans-1,2-Dichloroethene	5.02	96	1162112	13.82	ppbv	98
23) Vinyl Acetate	5.21	43	5271408	13.05	ppbv	99
24) 1,1-Dichloroethane	5.15	63	3599036	12.42	ppbv	100
25) Ethyl Acetate	5.83	43	6875866	13.60	ppbv	99
26) Hexane	5.84	57	3145401	13.75	ppbv	99
27) Carbon Disulfide	4.67	76	3013159	14.49	ppbv	99
28) Methyl tert-Butyl Ether	5.17	73	3991118	12.90	ppbv	100
29) Chloroform	5.91	83	4320731	12.99	ppbv	99
30) Cyclohexane	7.31	84	2621823	14.69	ppbv	97
31) cis-1,2-Dichloroethene	5.70	61	3253919	15.35	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	4279855	14.54	ppbv	99
34) 2-Butanone	5.38	43	4921846	14.97	ppbv	99
35) Carbon Tetrachloride	7.20	117	4090508	14.18	ppbv	98
36) Benzene	7.07	78	5971956	13.34	ppbv	98
37) 1,2-Dichloroethane	6.48	62	3565527	13.78	ppbv	100
38) Trichloroethene	8.03	130	2011172	11.62	ppbv	94
39) 1,2-Dichloropropane	7.80	63	2512067	11.15	ppbv	98
40) 1,4-Dioxane	8.02	88	690778	10.44	ppbv	76
41) Tetrahydrofuran	6.21	42	2946868	15.85	ppbv	99
42) Bromodichloromethane	7.99	83	4708097	11.24	ppbv	99
43) Methyl Methacrylate	8.21	69	2715418	12.63	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	10522771	10.84	ppbv	99
45) t-1,3-Dichloropropene	9.49	75	3748033	15.05	ppbv	98
46) cis-1,3-Dichloropropene	8.90	75	4325203	14.18	ppbv	99
47) 1,1,2-Trichloroethane	9.68	97	2685088	12.26	ppbv	98
48) Dibromochloromethane	10.52	129	3838960	11.89	ppbv	100
49) Bromoform	13.28	173	3093607	11.64	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	7318182	12.62	ppbv	99
51) 2-Hexanone	10.34	43	5560133	12.58	ppbv #	99
52) Tetrachloroethene	11.45	164	1773663	11.76	ppbv	98
53) Toluene	10.02	91	7323573	13.68	ppbv	99
54) 1,2-Dibromoethane	10.83	107	3646165	11.72	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.36	131	2649784	12.75	ppbv	97
57) Chlorobenzene	12.38	112	4795967	12.24	ppbv	97
58) Ethyl Benzene	12.94	91	8850739	14.01	ppbv	100
59) m/p-Xylene	13.22	91	14081127m	26.17	ppbv	
60) o-Xylene	13.93	91	6868751	13.02	ppbv	100
61) Styrene	13.76	104	5582018	14.38	ppbv	100
62) Isopropylbenzene	14.90	105	9828666	13.12	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.91	83	5188675	12.09	ppbv	100
64) n-propylbenzene	15.79	120	2648757	13.58	ppbv	95
65) tert-Butylbenzene	16.98	119	7988174	12.62	ppbv	100
66) Benzyl Chloride	17.23	91	5711627	15.14	ppbv	99
67) sec-Butylbenzene	17.53	105	11947691	12.60	ppbv	99
69) p-Isopropyltoluene	17.89	119	9609857	13.08	ppbv	99
70) n-Butylbenzene	18.79	91	10601506	12.50	ppbv	100
71) 2-Chlorotoluene	15.69	91	7918936	13.47	ppbv	99
72) 4-Ethyltoluene	16.08	105	8343661	14.11	ppbv	99
73) 1,3,5-Trimethylbenzene	16.23	105	7842943	13.48	ppbv	97
74) 1,2,4-Trimethylbenzene	17.00	105	7527785	12.27	ppbv	98
75) 1,3-Dichlorobenzene	17.24	146	4331508	12.19	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	4495466	13.19	ppbv	99
77) 1,2-Dichlorobenzene	18.07	146	4380750	12.55	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	1376111	11.21	ppbv	100
79) Naphthalene	22.49	128	8017867	15.06	ppbv	99
80) Naphthalene, 2-methyl-	25.17	142	3574200	16.97	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	3723932	14.00	ppbv	100

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

