

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032350.D
 Acq On : 15 Aug 2018 11:17
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:24 PM

Quant Time: Aug 15 12:57:52 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	2275982	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4674086	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.30	117	4567640	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.64	95	3507945	9.89	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	245172	0.89	ppbv	99
3) Chlorodifluoromethane	3.05	51	227495	1.00	ppbv	99
4) Chloromethane	3.21	50	132285	0.96	ppbv #	87
5) Vinyl Chloride	3.33	62	122413	0.98	ppbv	98
6) Bromomethane	3.56	94	65994	0.96	ppbv	91
7) Chloroethane	3.64	64	43059	0.97	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	279966	1.01	ppbv	99
9) Propene	3.07	41	87132	0.85	ppbv	99
10) Heptane	8.31	43	276164	0.77	ppbv	98
11) Trichlorofluoromethane	4.05	101	280869	1.07	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.60	101	187643	1.05	ppbv	98
13) Ethanol	3.70	45	27389	0.93	ppbv	99
14) Bromoethene	3.83	108	77918	0.99	ppbv #	98
15) Acetone	3.95	43	249271	1.16	ppbv	100
16) 1,3-Butadiene	3.40	39	96602	0.87	ppbv	96
17) tert-Butyl alcohol	4.42	59	42420	0.62	ppbv	95
18) 1,1-Dichloroethene	4.40	96	82808	1.00	ppbv	93
19) Isopropyl Alcohol	4.08	45	157895	1.10	ppbv #	95
20) Methylene Chloride	4.46	84	93083	1.08	ppbv	94
21) Allyl Chloride	4.53	41	140747	0.96	ppbv	95
22) trans-1,2-Dichloroethene	5.02	96	85034	1.06	ppbv	88
23) Vinyl Acetate	5.21	43	427063	1.11	ppbv #	97
24) 1,1-Dichloroethane	5.14	63	289824	1.05	ppbv	99
25) Ethyl Acetate	5.83	43	483752	1.00	ppbv	99
26) Hexane	5.83	57	210356	0.97	ppbv	93
27) Carbon Disulfide	4.67	76	188858	0.95	ppbv #	92
28) Methyl tert-Butyl Ether	5.17	73	272933	0.93	ppbv	100
29) Chloroform	5.90	83	327936	1.04	ppbv	98
30) Cyclohexane	7.31	84	149270	0.88	ppbv #	64
31) cis-1,2-Dichloroethene	5.69	61	201640	1.00	ppbv	98
32) 1,1,1-Trichloroethane	6.67	97	312940	1.12	ppbv	100
34) 2-Butanone	5.39	43	329506	1.09	ppbv	99
35) Carbon Tetrachloride	7.19	117	295223	1.11	ppbv	98
36) Benzene	7.06	78	406774	0.99	ppbv	99
37) 1,2-Dichloroethane	6.47	62	252769	1.06	ppbv	100
38) Trichloroethene	8.02	130	142488	0.89	ppbv	93
39) 1,2-Dichloropropane	7.79	63	171853	0.83	ppbv	95
40) 1,4-Dioxane	8.04	88	51525m	0.85	ppbv	
41) Tetrahydrofuran	6.22	42	164928	0.96	ppbv	99
42) Bromodichloromethane	7.98	83	326416	0.85	ppbv	98
43) Methyl Methacrylate	8.20	69	154284	0.78	ppbv	99

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44) 2,2,4-Trimethylpentane	8.05	57	771067	0.86	ppbv	98
45) t-1,3-Dichloropropene	9.48	75	185532	0.81	ppbv	93
46) cis-1,3-Dichloropropene	8.90	75	230680	0.82	ppbv	98
47) 1,1,2-Trichloroethane	9.68	97	198623	0.99	ppbv	94
48) Dibromochloromethane	10.51	129	242884	0.82	ppbv	100
49) Bromoform	13.27	173	212590m	0.87	ppbv	
50) 4-Methyl-2-Pentanone	8.95	43	485857	0.91	ppbv	100
51) 2-Hexanone	10.35	43	306663	0.75	ppbv #	97
52) Tetrachloroethene	11.44	164	124441	0.90	ppbv	92
53) Toluene	10.01	91	395772	0.80	ppbv	99
54) 1,2-Dibromoethane	10.83	107	239391	0.84	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.34	131	197005	1.05	ppbv #	1
57) Chlorobenzene	12.37	112	369276	1.04	ppbv #	97
58) Ethyl Benzene	12.94	91	555143	0.97	ppbv	98
59) m/p-Xylene	13.21	91	984105m	2.02	ppbv	
60) o-Xylene	13.92	91	497997	1.04	ppbv	95
61) Styrene	13.75	104	307732	0.87	ppbv	99
62) Isopropylbenzene	14.89	105	689716	1.02	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	423465	1.09	ppbv	100
64) n-propylbenzene	15.79	120	174715	0.99	ppbv	86
65) tert-Butylbenzene	16.98	119	603139	1.05	ppbv	100
66) Benzyl Chloride	17.22	91	293613	0.86	ppbv	94
67) sec-Butylbenzene	17.52	105	885875	1.03	ppbv	98
69) p-Isopropyltoluene	17.88	119	660971	0.99	ppbv	99
70) n-Butylbenzene	18.78	91	734925	0.96	ppbv	96
71) 2-Chlorotoluene	15.69	91	524887	0.98	ppbv	98
72) 4-Ethyltoluene	16.07	105	519941	0.97	ppbv	98
73) 1,3,5-Trimethylbenzene	16.22	105	499869	0.95	ppbv	96
74) 1,2,4-Trimethylbenzene	16.99	105	561204	1.01	ppbv	97
75) 1,3-Dichlorobenzene	17.23	146	334591	1.04	ppbv	94
76) 1,4-Dichlorobenzene	17.38	146	312502	1.01	ppbv	98
77) 1,2-Dichlorobenzene	18.06	146	313538m	0.99	ppbv	
78) Hexachloro-1,3-Butadiene	23.61	225	112726m	1.01	ppbv	
79) Naphthalene	22.50	128	304055m	0.63	ppbv	
80) Naphthalene, 2-methyl-	25.17	142	20893	0.11	ppbv	90
81) 1,2,4-Trichlorobenzene	22.22	180	175680	0.73	ppbv	97

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

