

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033328.D
 Acq On : 15 Mar 2019 11:44
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:18 AM

Quant Time: Mar 15 13:24:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	863700	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1962270	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2174288	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1617441	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	172139	1.101	ppbv	96
3) Chlorodifluoromethane	3.02	51	103109	1.043	ppbv	100
4) Chloromethane	3.17	50	55840	1.039	ppbv	98
5) Vinyl Chloride	3.29	62	52047	0.955	ppbv	98
6) Bromomethane	3.52	94	33647	1.018	ppbv	91
7) Chloroethane	3.60	64	20092	1.028	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	137941	1.035	ppbv	97
9) Propene	3.04	41	47538	1.073	ppbv	99
10) Heptane	8.25	43	112718	1.007	ppbv	99
11) Trichlorofluoromethane	4.01	101	155765	1.049	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.56	101	107426m	1.104	ppbv	
13) Ethanol	3.65	45	30065	1.951	ppbv	99
14) Bromoethene	3.79	108	42411	1.031	ppbv	98
15) Acetone	3.91	43	159919	1.209	ppbv	98
16) 1,3-Butadiene	3.36	39	43657	0.940	ppbv	99
17) tert-Butyl alcohol	4.37	59	21049m	1.116	ppbv	
18) 1,1-Dichloroethene	4.35	96	48222	1.119	ppbv	98
19) Isopropyl Alcohol	4.04	45	67629	1.019	ppbv	# 97
20) Methylene Chloride	4.41	84	47757	1.127	ppbv	92
21) Allyl Chloride	4.48	41	65782	1.005	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	43874	1.025	ppbv	97
23) Vinyl Acetate	5.16	43	160665	1.040	ppbv	98
24) 1,1-Dichloroethane	5.09	63	114626	1.042	ppbv	98
25) Ethyl Acetate	5.78	43	206465	1.079	ppbv	99
26) Hexane	5.78	57	90742	1.036	ppbv	97
27) Carbon Disulfide	4.62	76	100268	1.015	ppbv	# 92
28) Methyl tert-Butyl Ether	5.13	73	129966m	1.031	ppbv	
29) Chloroform	5.85	83	146259	1.025	ppbv	99
30) Cyclohexane	7.25	84	70255	1.013	ppbv	94
31) cis-1,2-Dichloroethene	5.64	61	88550	1.020	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	143564	1.013	ppbv	98
34) 2-Butanone	5.34	43	134340	1.079	ppbv	99
35) Carbon Tetrachloride	7.13	117	137689	0.972	ppbv	99
36) Benzene	7.01	78	183251	1.045	ppbv	96
37) 1,2-Dichloroethane	6.42	62	116372	1.064	ppbv	100
38) Trichloroethene	7.96	130	69884	1.012	ppbv	94
39) 1,2-Dichloropropane	7.73	63	70822	1.061	ppbv	98
40) 1,4-Dioxane	7.98	88	24787m	1.014	ppbv	
41) Tetrahydrofuran	6.16	42	73571	1.066	ppbv	98
42) Bromodichloromethane	7.92	83	149682	1.004	ppbv	95
43) Methyl Methacrylate	8.14	69	68494	1.002	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	304617	1.036	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	74182	0.885	ppbv	92
46) cis-1,3-Dichloropropene	8.83	75	95446	0.970	ppbv	92
47) 1,1,2-Trichloroethane	9.61	97	73036	1.017	ppbv	93
48) Dibromochloromethane	10.45	129	113891	0.928	ppbv	97
49) Bromoform	13.20	173	109831	0.989	ppbv	98
50) 4-Methyl-2-Pentanone	8.89	43	188807	1.037	ppbv	98
51) 2-Hexanone	10.29	43	143955	0.993	ppbv #	100
52) Tetrachloroethene	11.38	164	76136	1.075	ppbv	95
53) Toluene	9.95	91	202424	1.012	ppbv	98
54) 1,2-Dibromoethane	10.76	107	127542	1.090	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.28	131	102788m	1.054	ppbv	
57) Chlorobenzene	12.31	112	189051m	1.095	ppbv	
58) Ethyl Benzene	12.87	91	320116	1.041	ppbv	96
59) m/p-Xylene	13.13	91	551482m	2.104	ppbv	
60) o-Xylene	13.85	91	270885	1.055	ppbv	100
61) Styrene	13.69	104	176603m	0.985	ppbv	
62) Isopropylbenzene	14.83	105	378571	1.067	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	194046	1.000	ppbv	100
64) n-propylbenzene	15.73	120	93059	1.039	ppbv	93
65) tert-Butylbenzene	16.91	119	344068m	1.052	ppbv	
66) Benzyl Chloride	17.16	91	100699	0.755	ppbv	96
67) sec-Butylbenzene	17.46	105	483769	1.035	ppbv	99
69) p-Isopropyltoluene	17.82	119	388975	1.023	ppbv	97
70) n-Butylbenzene	18.71	91	417587	1.028	ppbv	98
71) 2-Chlorotoluene	15.62	91	293987	1.041	ppbv	99
72) 4-Ethyltoluene	16.00	105	299810	1.024	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	297270	1.025	ppbv	96
74) 1,2,4-Trimethylbenzene	16.92	105	327571	1.073	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	187342m	1.055	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	181439m	1.038	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	175705	1.023	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	110224m	1.066	ppbv	
79) Naphthalene	22.42	128	302705m	1.015	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	145399	1.011	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	155566	1.006	ppbv	99

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

