

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031853.D
 Acq On : 12 Apr 2018 1:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:02 PM

Quant Time: Apr 12 04:32:50 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:32:50 2018
 QLast Update : Thu Apr 12 04:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1249455	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2905050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2807373	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2291240	10.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	307386	1.317	ppbv	96
3) Chlorodifluoromethane	3.10	51	169758	1.059	ppbv	99
4) Chloromethane	3.26	50	82660	1.031	ppbv	97
5) Vinyl Chloride	3.39	62	88083	1.092	ppbv	99
6) Bromomethane	3.61	94	62198	1.126	ppbv	99
7) Chloroethane	3.70	64	36976	1.108	ppbv	100
8) Dichlorotetrafluoroethane	3.31	85	245629	1.143	ppbv	100
9) Propene	3.13	41	52343	0.822	ppbv	93
10) Heptane	8.38	43	172470	0.908	ppbv	99
11) Trichlorofluoromethane	4.11	101	283112	1.211	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	184243	1.191	ppbv	99
13) Ethanol	3.76	45	19721m	0.977	ppbv	
14) Bromoethene	3.89	108	69432	1.102	ppbv	99
15) Acetone	4.02	43	230228	1.096	ppbv	99
16) 1,3-Butadiene	3.46	39	82888	1.092	ppbv	97
17) tert-Butyl alcohol	4.49	59	88511m	0.929	ppbv	
18) 1,1-Dichloroethene	4.47	96	76291	1.092	ppbv	88
19) Isopropyl Alcohol	4.14	45	122277	1.068	ppbv #	96
20) Methylene Chloride	4.52	84	76940m	1.099	ppbv	
21) Allyl Chloride	4.59	41	115411	1.030	ppbv	94
22) trans-1,2-Dichloroethene	5.09	96	78398	1.050	ppbv	98
23) Vinyl Acetate	5.28	43	209536	0.914	ppbv #	97
24) 1,1-Dichloroethane	5.21	63	208998	1.076	ppbv	99
25) Ethyl Acetate	5.90	43	320573	0.990	ppbv	100
26) Hexane	5.91	57	148824	1.000	ppbv	95
27) Carbon Disulfide	4.74	76	187724	1.154	ppbv	99
28) Methyl tert-Butyl Ether	5.25	73	180306	0.895	ppbv	99
29) Chloroform	5.97	83	262805	1.108	ppbv	97
30) Cyclohexane	7.39	84	104257	0.877	ppbv	97
31) cis-1,2-Dichloroethene	5.77	61	133851	0.967	ppbv #	92
32) 1,1,1-Trichloroethane	6.75	97	247724	0.996	ppbv	99
34) 2-Butanone	5.46	43	211260	1.058	ppbv	98
35) Carbon Tetrachloride	7.27	117	255175	1.173	ppbv	93
36) Benzene	7.14	78	276255	1.010	ppbv	98
37) 1,2-Dichloroethane	6.55	62	209299	1.148	ppbv	97
38) Trichloroethene	8.10	130	110284	0.996	ppbv	90
39) 1,2-Dichloropropane	7.88	63	103549	1.048	ppbv	96
40) 1,4-Dioxane	8.13	88	43523m	1.096	ppbv	
41) Tetrahydrofuran	6.29	42	92032m	0.919	ppbv	
42) Bromodichloromethane	8.06	83	240324	1.112	ppbv	93
43) Methyl Methacrylate	8.28	69	92701	0.961	ppbv	100

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031853.D
 Acq On : 12 Apr 2018 1:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:02 PM

Quant Time: Apr 12 04:32:50 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:32:50 2018
 QLast Update : Thu Apr 12 04:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	485726	1.091	ppbv	97
45) t-1,3-Dichloropropene	9.56	75	107356	0.820	ppbv #	76
46) cis-1,3-Dichloropropene	8.98	75	147409	0.902	ppbv	92
47) 1,1,2-Trichloroethane	9.76	97	123402	1.094	ppbv	93
48) Dibromochloromethane	10.60	129	189208m	1.077	ppbv	
49) Bromoform	13.35	173	145121	1.125	ppbv	98
50) 4-Methyl-2-Pentanone	9.03	43	243683	1.057	ppbv	98
51) 2-Hexanone	10.43	43	212067m	0.994	ppbv	
52) Tetrachloroethene	11.52	164	104487m	0.947	ppbv	
53) Toluene	10.09	91	301619	0.956	ppbv	97
54) 1,2-Dibromoethane	10.91	107	173010	1.015	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	150193	1.162	ppbv #	1
57) Chlorobenzene	12.45	112	264483	1.049	ppbv	96
58) Ethyl Benzene	13.01	91	411504	0.920	ppbv	93
59) m/p-Xylene	13.30	91	753018m	2.041	ppbv	
60) o-Xylene	14.00	91	375580	1.008	ppbv	100
61) Styrene	13.83	104	59954	0.727	ppbv	98
62) Isopropylbenzene	14.97	105	481506	1.020	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	276496	1.136	ppbv	99
64) n-propylbenzene	15.87	120	113372	0.998	ppbv	88
65) tert-Butylbenzene	17.06	119	418525	1.035	ppbv	97
66) Benzyl Chloride	17.30	91	31680m	0.919	ppbv	
67) sec-Butylbenzene	17.60	105	605043m	1.073	ppbv	
69) p-Isopropyltoluene	17.96	119	458449	1.012	ppbv	98
70) n-Butylbenzene	18.86	91	468627	1.047	ppbv	99
71) 2-Chlorotoluene	15.76	91	340529	0.962	ppbv	100
72) 4-Ethyltoluene	16.15	105	372074	0.996	ppbv	98
73) 1,3,5-Trimethylbenzene	16.30	105	344652	1.016	ppbv	94
74) 1,2,4-Trimethylbenzene	17.07	105	392254	1.075	ppbv	92
75) 1,3-Dichlorobenzene	17.31	146	240569	1.078	ppbv	98
76) 1,4-Dichlorobenzene	17.46	146	226972	1.000	ppbv	96
77) 1,2-Dichlorobenzene	18.14	146	242221m	1.122	ppbv	
78) Hexachloro-1,3-Butadiene	23.68	225	97543	1.090	ppbv	98
79) Naphthalene	22.59	128	195109m	0.847	ppbv	
80) Naphthalene, 2-methyl-	25.24	142	31296	0.549	ppbv	90
81) 1,2,4-Trichlorobenzene	22.32	180	113949m	0.905	ppbv	

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

```
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\  
Data File : VL031853.D  
Acq On    : 12 Apr 2018    1:36  
Operator  : SY/AP  
Sample    : VSTDICC001  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

MMDadoda
4/15/2018 3:06:02 PM

Quant Time: Apr 12 04:32:50 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Apr
QLast Update : Thu Apr 12 04:17:02 2018
Response via : Initial Calibration

