

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050911.D
 Acq On : 28 Aug 2018 13:39
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:06 AM

Quant Time: Aug 29 01:33:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:19:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	123194	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	706037	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	639213	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	243876	31.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.40%
60) 4-Bromofluorobenzene	12.40	95	291852	30.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.33%
63) Toluene-d8	10.09	98	869497	29.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.23%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	1222474	159.79	ug/l	100
3) Chloromethane	2.06	50	1379692	152.72	ug/l	99
4) Vinyl Chloride	2.18	62	1372232	153.73	ug/l	100
5) Bromomethane	2.54	94	834479	153.37	ug/l	100
6) Chloroethane	2.69	64	794468	150.90	ug/l	97
7) Trichlorofluoromethane	3.01	101	1826921	154.39	ug/l	99
8) Diethyl Ether	3.41	74	684111	163.97	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	1121787	153.08	ug/l	99
10) 1,1-Dichloroethene	3.73	96	1059503	159.16	ug/l	98
11) Methyl Iodide	3.95	142	1214724	195.58	ug/l	99
12) Methyl Acetate	4.33	43	1280604	166.37	ug/l	99
13) Acrolein	3.61	56	122829	720.64	ug/l	98
14) Acrylonitrile	4.99	53	2168831	833.35	ug/l	98
15) Acetone	3.82	58	499053	749.37	ug/l	100
16) Carbon Disulfide	4.05	76	3139095	156.84	ug/l	100
17) Allyl chloride	4.32	41	1723790	164.58	ug/l	98
18) Methylene Chloride	4.55	84	1187704	152.01	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	1114828	157.19	ug/l	100
20) Diisopropyl ether	5.96	45	3492143	160.62	ug/l	95
21) 1,1-Dichloroethane	5.85	63	2061572	154.65	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	1280484	159.83	ug/l	99
23) tert-Butyl Alcohol	4.80	59	487912	881.54	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	3050524	167.55	ug/l	100
25) Chloroform	7.37	83	2031771	152.71	ug/l	98
26) Cyclohexane	7.65	56	1830530	165.75	ug/l #	100
29) 1,1-Dichloropropene	7.80	75	1612806	152.58	ug/l	99
30) 2-Butanone	6.84	43	2441938	750.98	ug/l	100
31) 2,2-Dichloropropane	6.83	77	1591823	154.77	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1766992	147.42	ug/l	99
33) Carbon Tetrachloride	7.78	117	1593451	147.62	ug/l	97
34) Benzene	8.04	78	4833556	147.82	ug/l #	91
35) Methacrylonitrile	7.18	41	537733	150.94	ug/l	97
36) 1,2-Dichloroethane	8.13	62	1437823	145.39	ug/l	100
37) Trichloroethene	8.84	130	1283917	150.23	ug/l	99
38) Methylcyclohexane	9.08	83	1817815	160.13	ug/l	97
39) 1,2-Dichloropropane	9.12	63	1267728	148.44	ug/l	98
40) Dibromomethane	9.21	93	760249	147.78	ug/l	97

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 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:06 AM

Quant Time: Aug 29 01:33:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1613885	148.82	ug/l	99
42) Vinyl Acetate	5.90	43	11739155	783.78	ug/l	98
43) Ethyl Acetate	6.93	43	1040815	156.25	ug/l	94
44) Isopropyl Acetate	8.17	43	1874789	159.50	ug/l	97
45) 1,4-Dioxane	9.20	88	279306	3198.79	ug/l	98
46) Methyl methacrylate	9.20	41	964142	163.78	ug/l	98
47) n-amyl Acetate	12.07	43	1625372	171.99	ug/l	94
48) t-1,3-Dichloropropene	10.38	75	1735667	163.28	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	1920276	157.25	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	1106107	147.98	ug/l	99
51) Ethyl methacrylate	10.43	69	1526997	166.97	ug/l	98
52) 1,3-Dichloropropane	10.71	76	1870859	151.10	ug/l	99
53) Dibromochloromethane	10.90	129	1307736	153.86	ug/l	99
54) 1,2-Dibromoethane	11.01	107	1134833	153.54	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	3230962	849.06	ug/l	99
56) Bromoform	12.13	173	954841	157.95	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	5378747	735.44	ug/l	98
59) 2-Hexanone	10.75	43	3652096	763.96	ug/l	98
61) Tetrachloroethene	10.63	164	1154806	144.98	ug/l	99
62) Toluene	10.16	91	5251747	147.27	ug/l	100
64) Chlorobenzene	11.44	112	3321838	150.30	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	1252544	150.10	ug/l	99
66) Ethyl Benzene	11.51	91	5749871	155.66	ug/l	98
67) m/p-Xylenes	11.62	106	4376875	307.96	ug/l	100
68) o-Xylene	11.95	106	2120002	156.11	ug/l	99
69) Styrene	11.97	104	3433048	159.00	ug/l	99
70) Isopropylbenzene	12.25	105	5593791	155.01	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	1422729	145.62	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	1278930m	152.20	ug/l	
73) Bromobenzene	12.53	156	1456674	153.43	ug/l	99
74) n-propylbenzene	12.59	91	6385475	156.52	ug/l	99
75) 2-Chlorotoluene	12.68	91	3751841	151.37	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	4537068	153.85	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	414554	172.63	ug/l	92
78) 4-Chlorotoluene	12.77	91	3829025	156.90	ug/l	100
79) tert-butylbenzene	12.99	119	3973371	155.15	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	4614828	156.96	ug/l	99
81) sec-Butylbenzene	13.17	105	5218885	155.75	ug/l	99
82) p-Isopropyltoluene	13.29	119	4620356	159.74	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	2545517	158.58	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	2501677	164.48	ug/l	99
85) n-Butylbenzene	13.62	91	3846515	174.29	ug/l	98
86) Hexachloroethane	13.88	117	843454	151.93	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	2442489	154.59	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	222472	162.76	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	1400430	199.10	ug/l	100
90) Hexachlorobutadiene	15.01	225	715503	149.72	ug/l	99
91) Naphthalene	15.14	128	3211372	213.01	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1340100	189.87	ug/l	100

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ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:06 AM

Quant Time: Aug 29 01:33:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:19:11 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

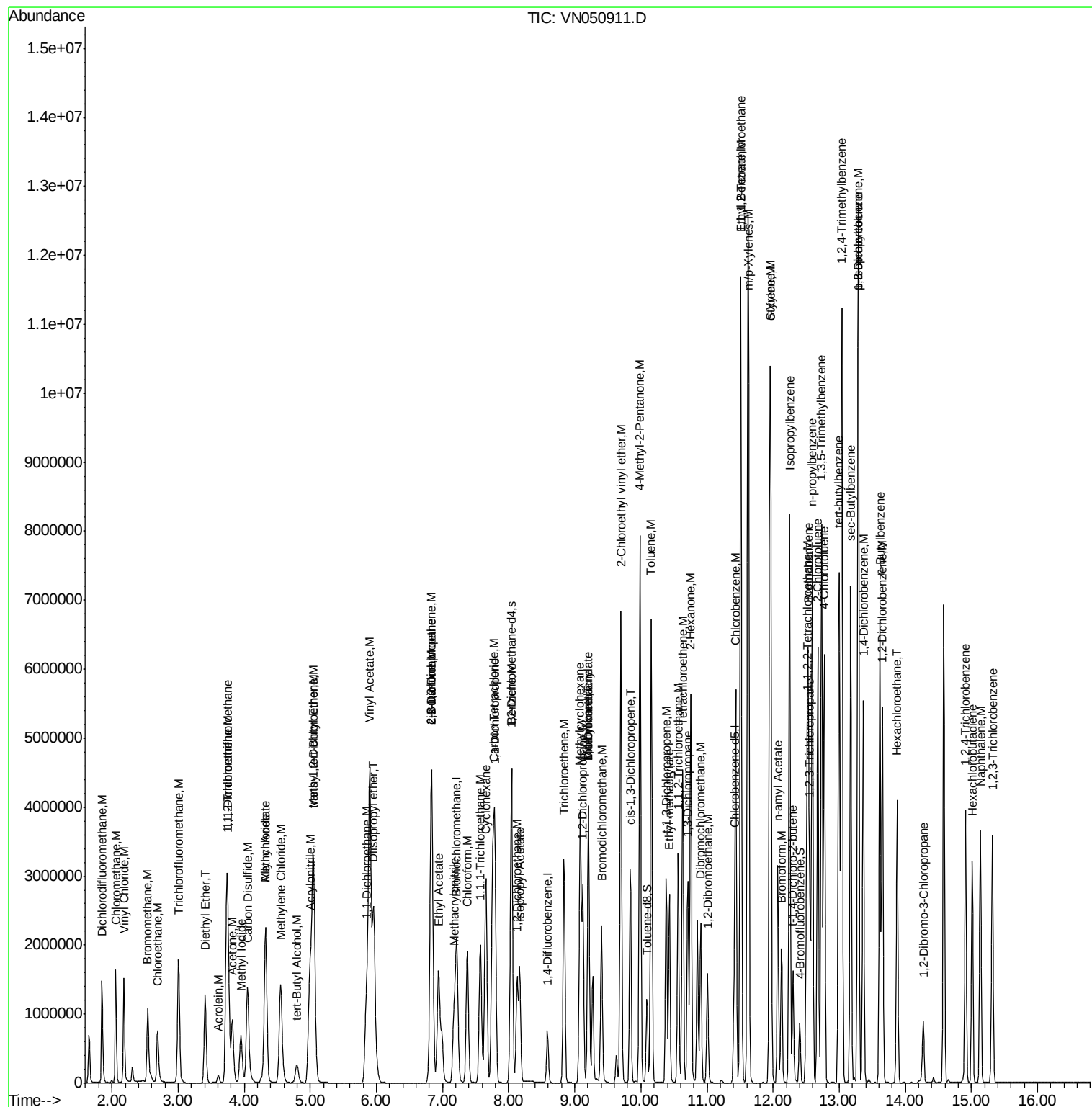
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050911.D
 Acq On : 28 Aug 2018 13:39
 Operator : MD\SY
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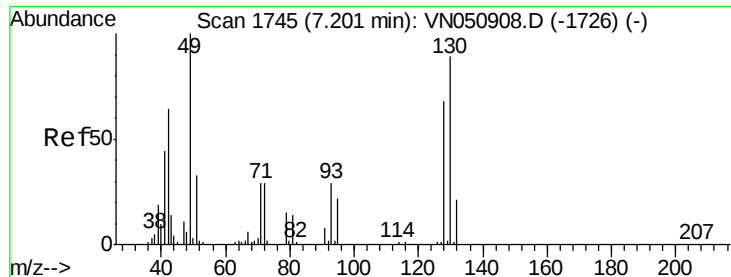
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:06 AM

Quant Time: Aug 29 01:33:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. -0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

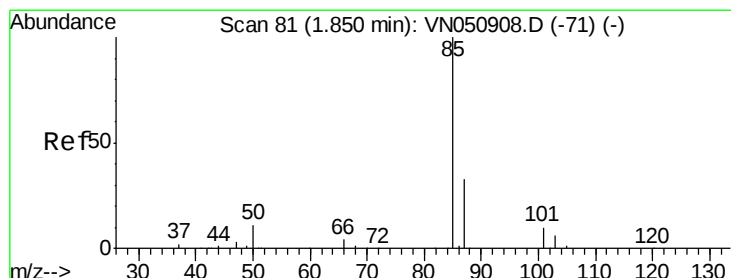
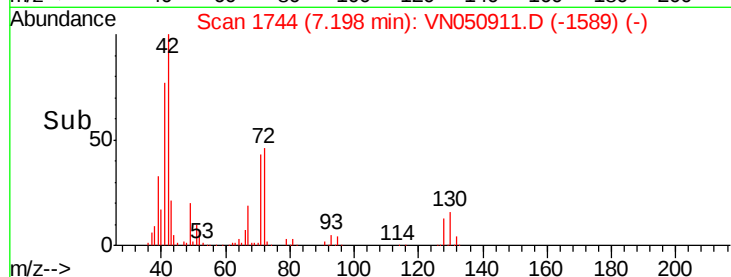
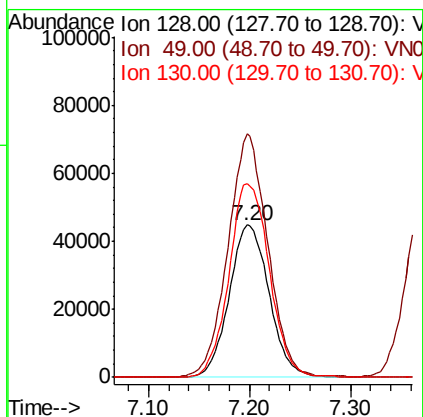
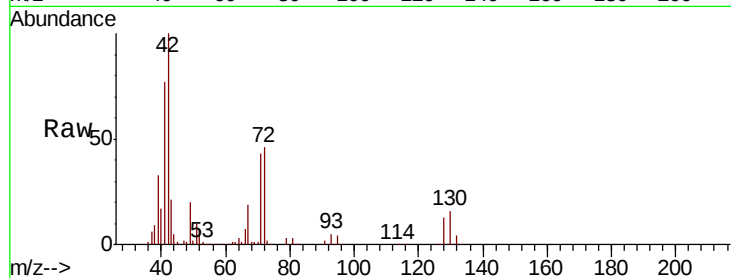
ClientSampleId :

VSTDIC150

Tot Ion:	128	Resp:	123194
Ion	Ratio	Lower	Upper
128	100		
49	159.4	0.0	380.3
130	128.5	0.0	325.3

Manual Integrations
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8/29/2018 11:10:06 AM



#2

Dichlorodifluoromethane

Concen: 159.79 ug/l

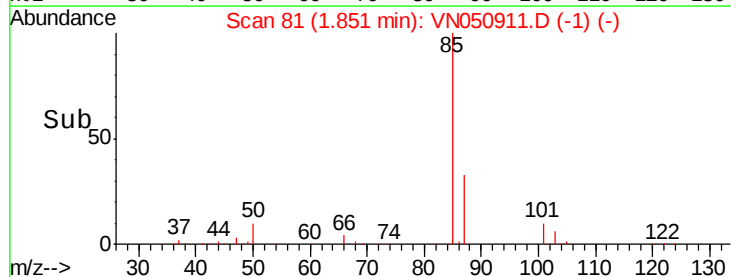
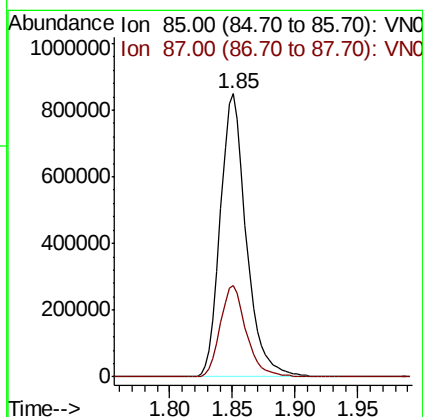
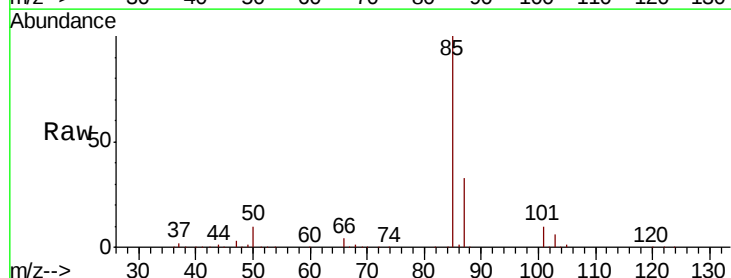
RT: 1.85 min Scan# 81

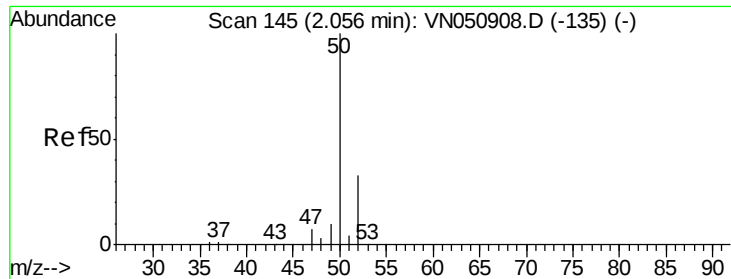
Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Tgt Ion:	85	Resp:	1222474
Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.4	49.1





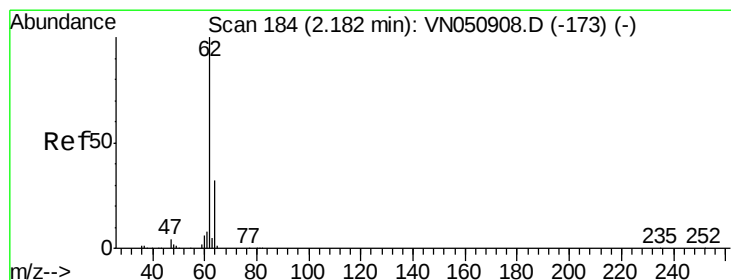
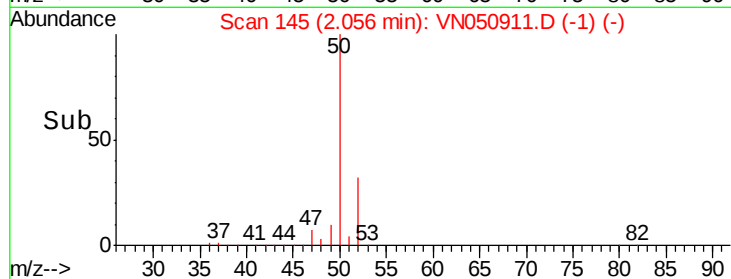
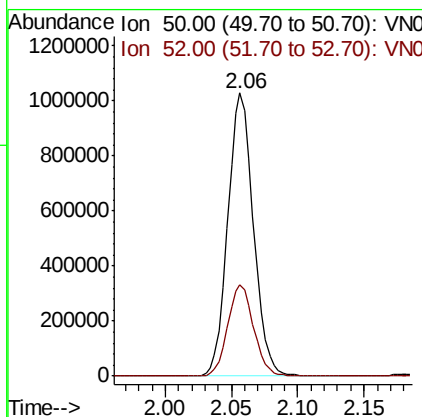
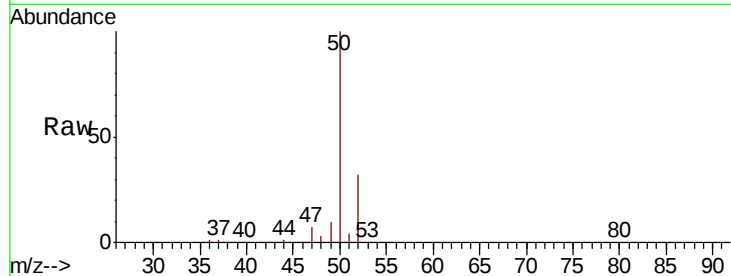
#3
Chloromethane
Concen: 152.72 ug/l
RT: 2.06 min Scan# 145
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 50 Resp: 1379692
Ion Ratio Lower Upper
50 100
52 32.4 26.2 39.4

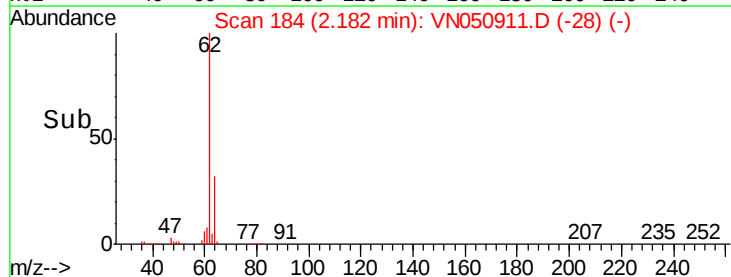
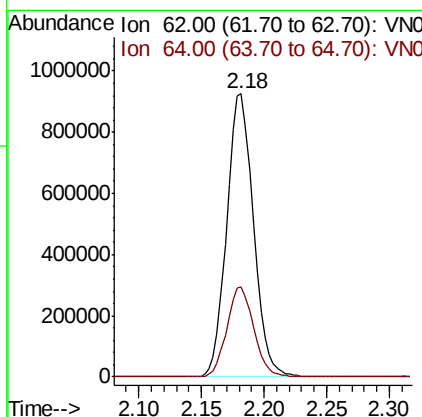
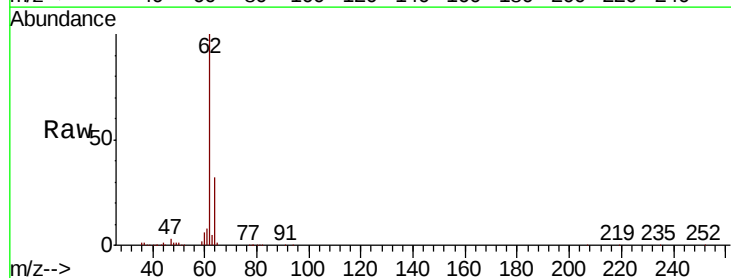
Manual Integrations
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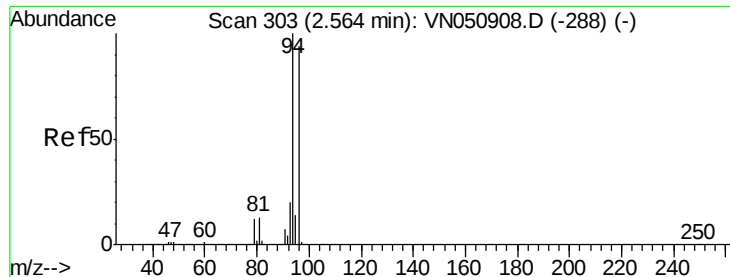
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#4
Vinyl Chloride
Concen: 153.73 ug/l
RT: 2.18 min Scan# 184
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion: 62 Resp: 1372232
Ion Ratio Lower Upper
62 100
64 31.8 25.4 38.0





#5

Bromomethane

Concen: 153.37 ug/l

RT: 2.54 min Scan# 296

Delta R.T. -0.02 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 834479

Ion Ratio Lower Upper

94 100

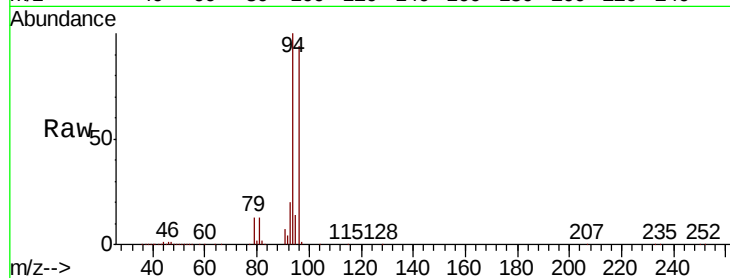
96 93.5 74.9 112.3

Manual Integrations

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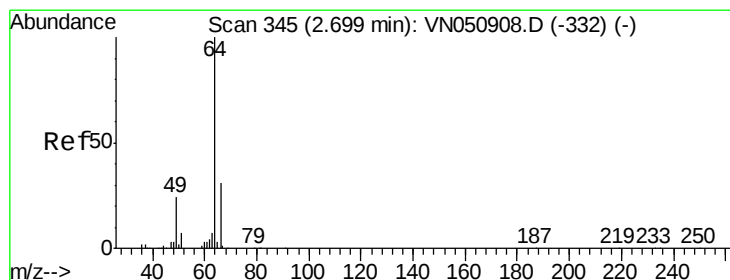
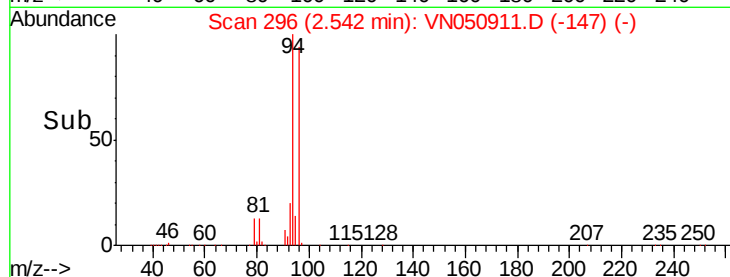
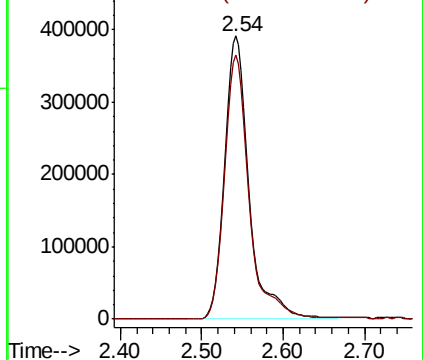
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8/29/2018 11:10:06 AM



Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 150.90 ug/l

RT: 2.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VN050911.D

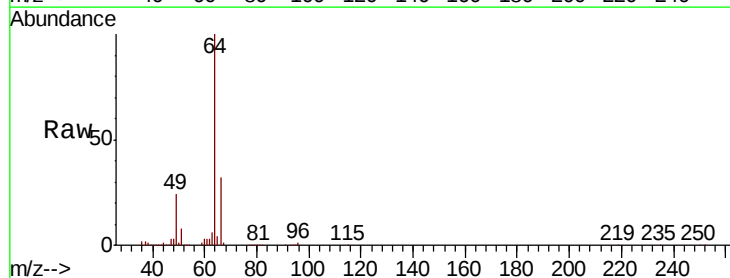
Acq: 28 Aug 2018 13:39

Tgt Ion: 64 Resp: 794468

Ion Ratio Lower Upper

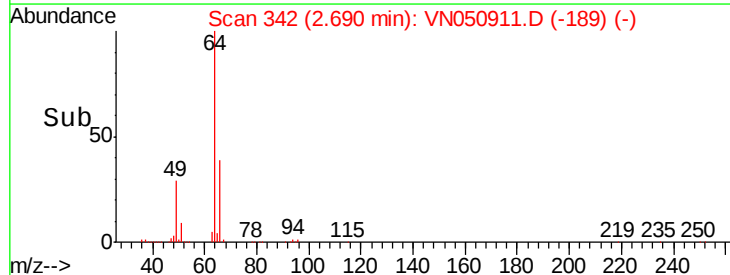
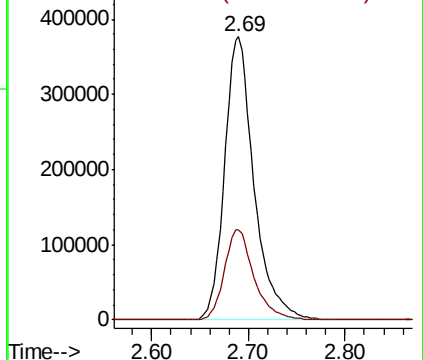
64 100

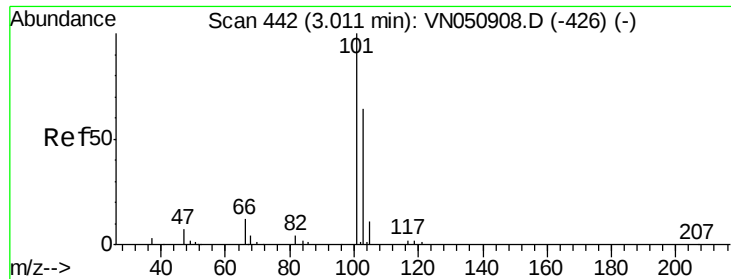
66 32.0 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

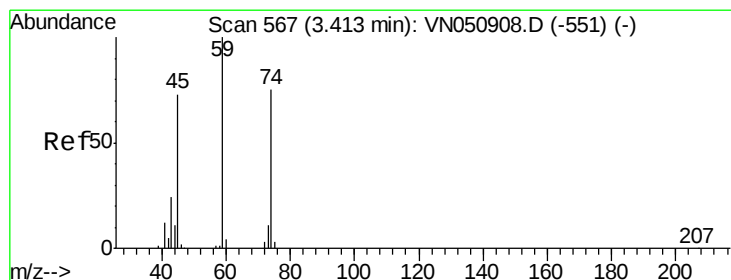
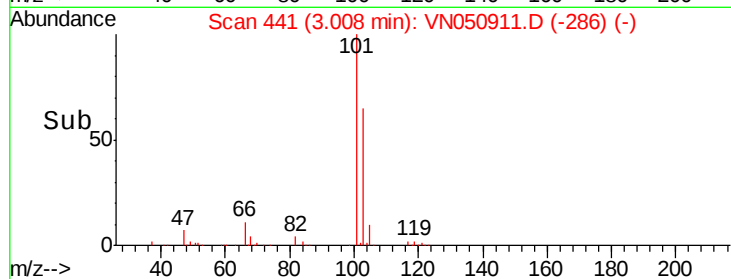
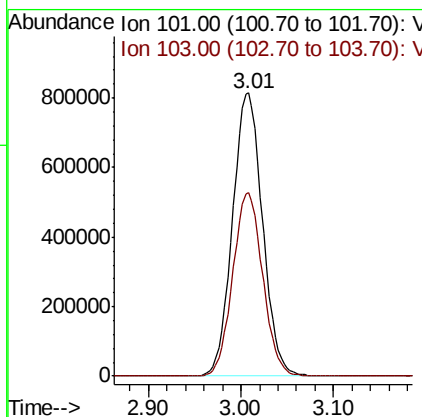
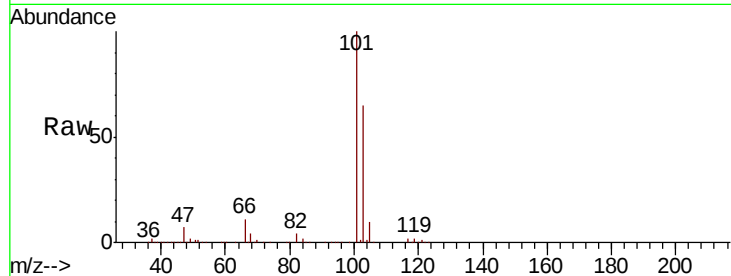
Trichlorofluoromethane
Concen: 154.39 ug/l
RT: 3.01 min Scan# 441
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	64.9	51.3	76.9	

Manual Integrations
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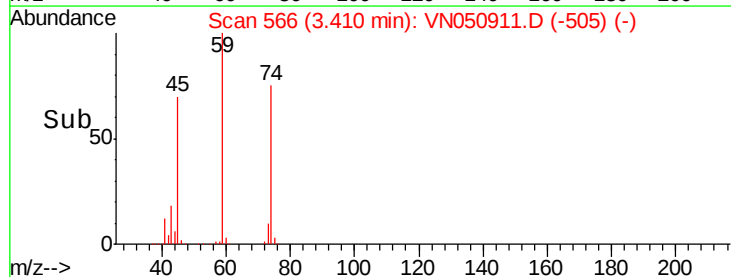
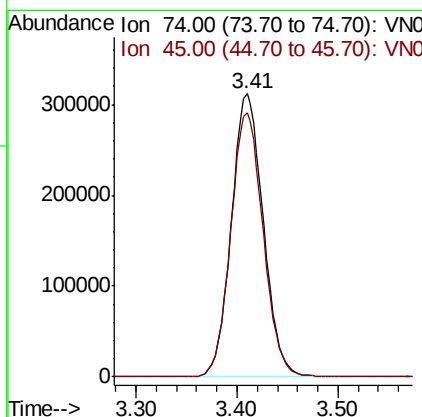
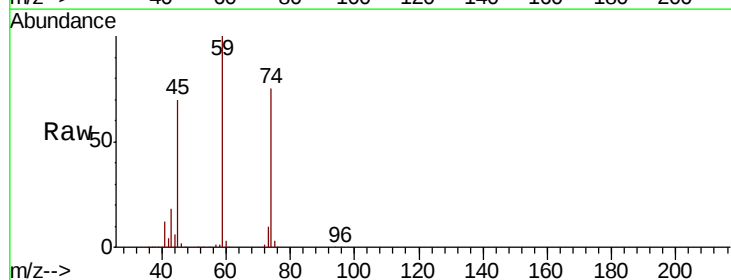
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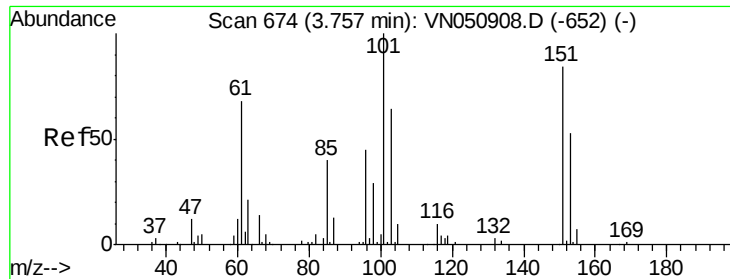


#8

Diethyl Ether
Concen: 163.97 ug/l
RT: 3.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ion	Ratio	Lower	Upper
74	100			
45	94.5	19.7	177.1	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 153.08 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:101 Resp: 1121787

Ion Ratio Lower Upper

101 100

85 41.4 0.0 83.6

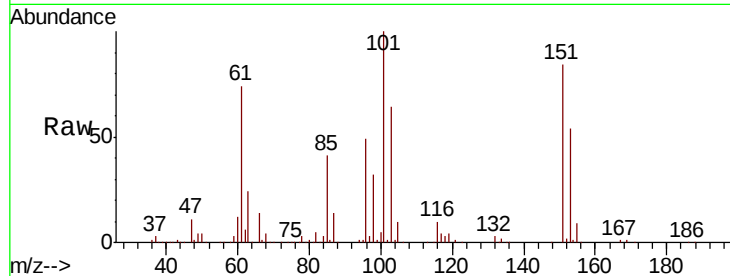
151 84.3 0.0 167.0

Manual Integrations

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MMDadoda

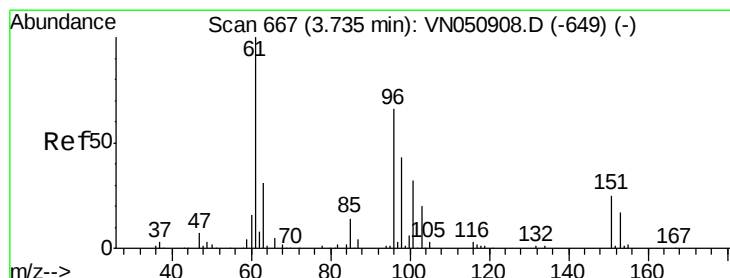
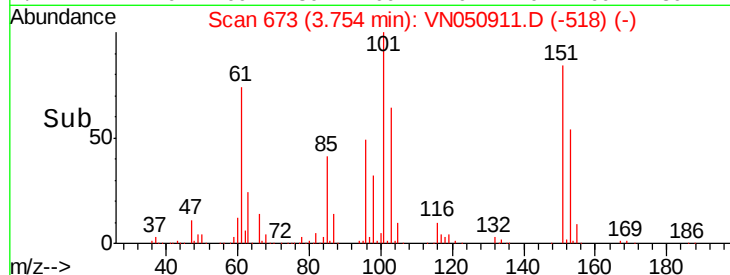
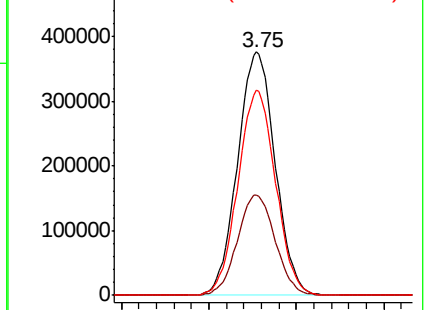
8/29/2018 11:10:06 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 159.16 ug/l

RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

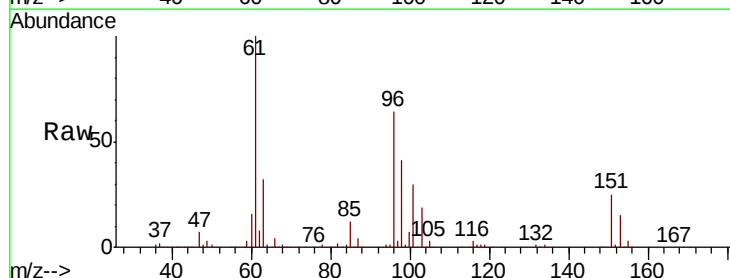
Tgt Ion: 96 Resp: 1059503

Ion Ratio Lower Upper

96 100

61 155.5 121.8 182.8

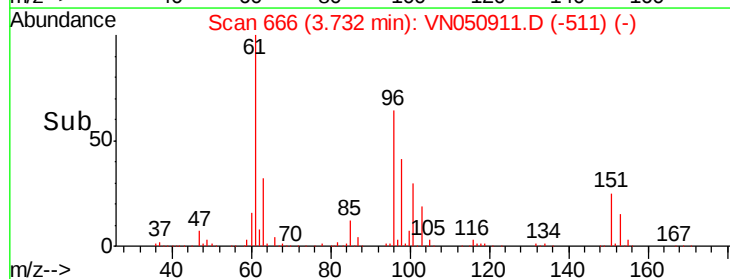
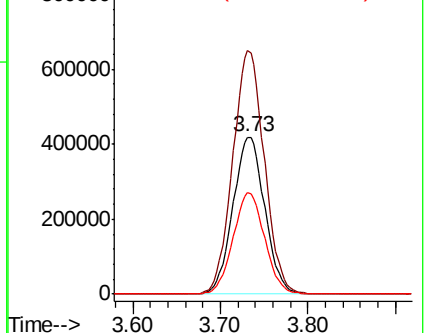
98 64.4 52.3 78.5

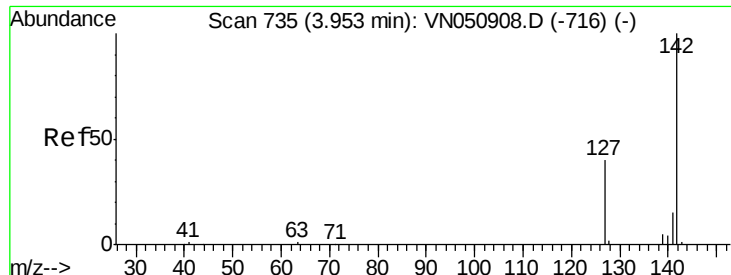


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





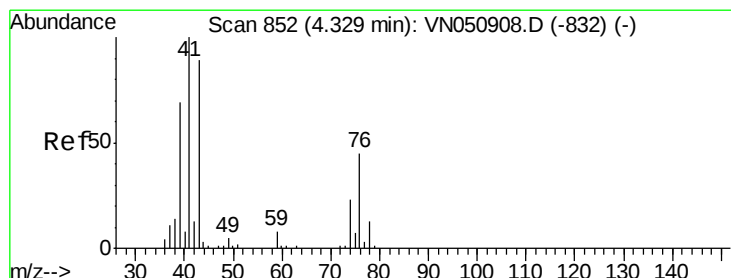
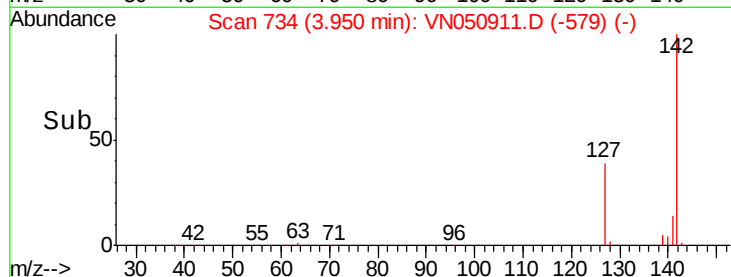
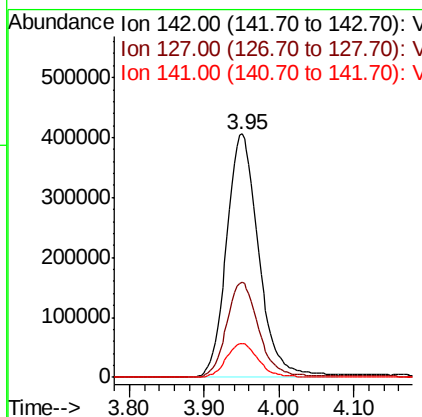
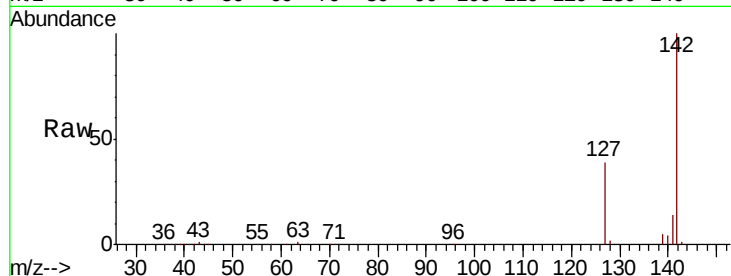
#11
Methyl Iodide
Concen: 195.58 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.1	19.7	59.1
141	14.1	7.3	22.0

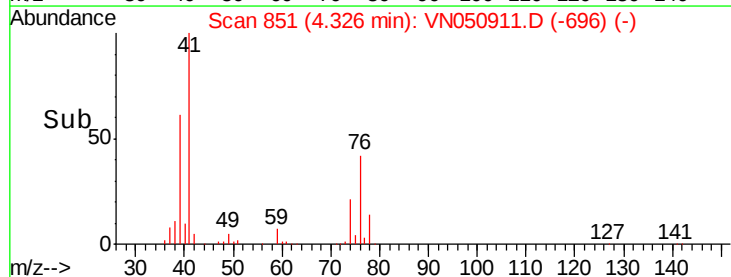
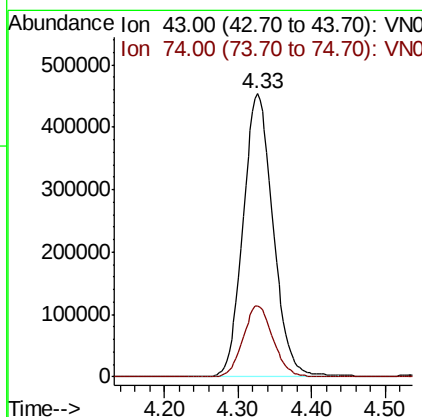
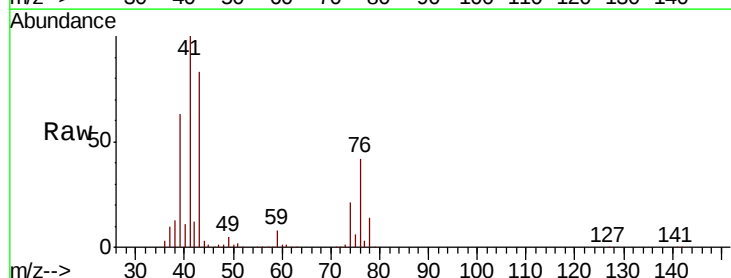
Manual Integrations
APPROVED

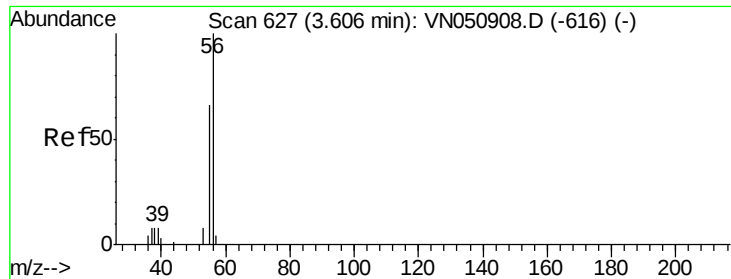
MMDadoda
8/29/2018 11:10:06 AM



#12
Methyl Acetate
Concen: 166.37 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.1	20.6	31.0





#13

Acrolein

Concen: 720.64 ug/l

RT: 3.61 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 56 Resp: 122829

Ion Ratio Lower Upper

56 100

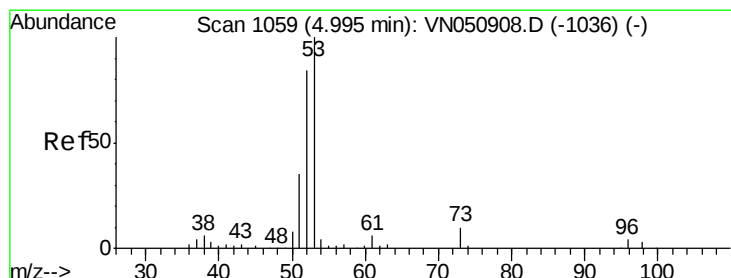
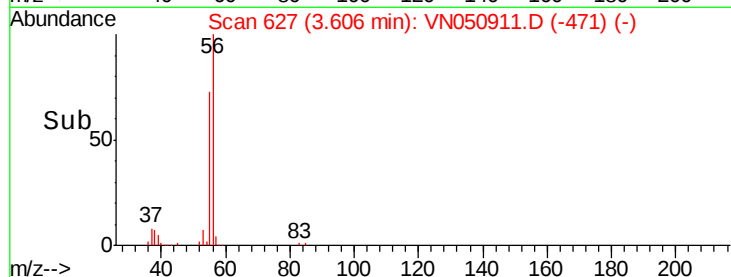
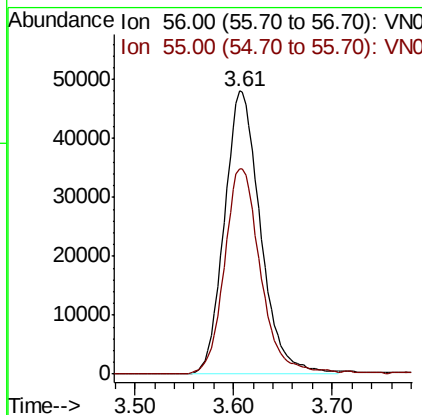
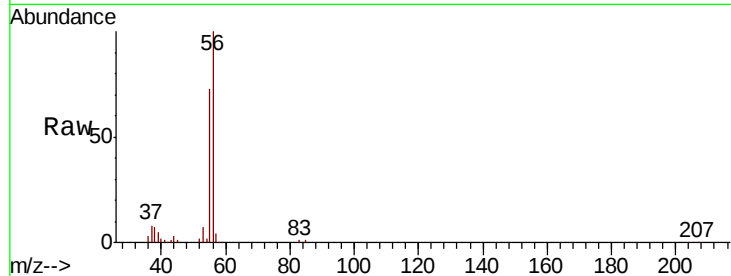
55 72.2 59.1 88.7

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:06 AM



#14

Acrylonitrile

Concen: 833.35 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

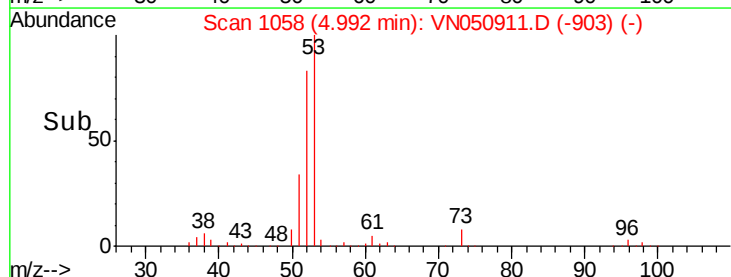
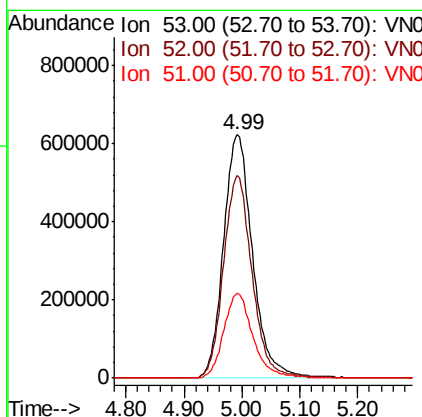
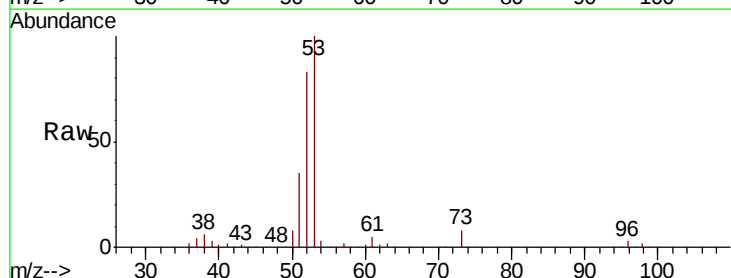
Tgt Ion: 53 Resp: 2168831

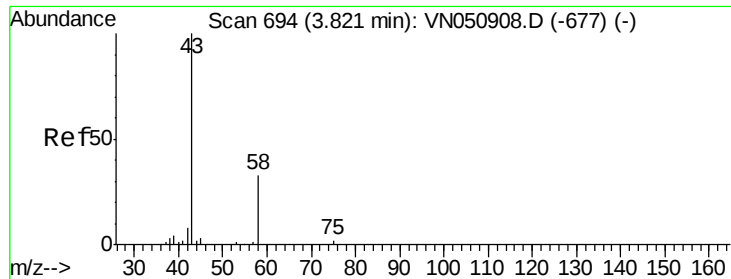
Ion Ratio Lower Upper

53 100

52 81.4 42.2 126.6

51 35.1 17.7 53.1





#15

Acetone

Concen: 749.37 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 58 Resp: 499053

Ion Ratio Lower Upper

58 100

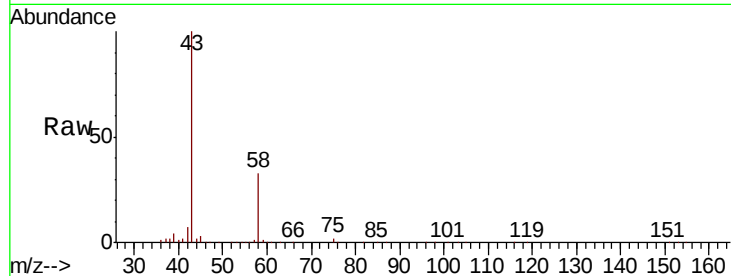
43 298.4 239.4 359.0

Manual Integrations

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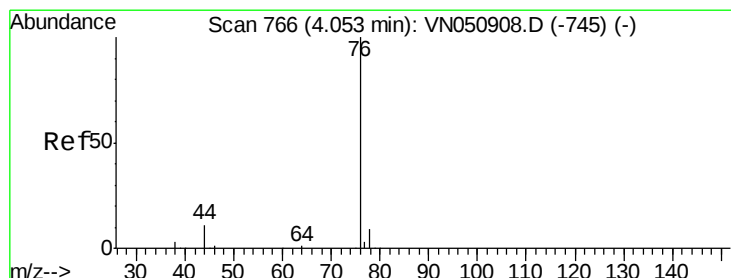
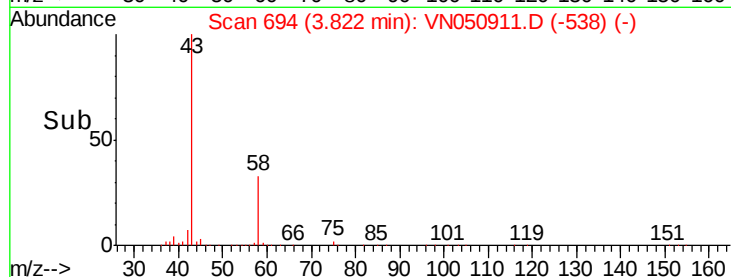
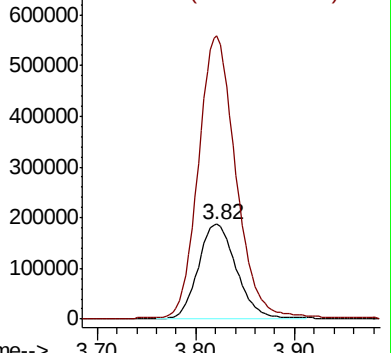
MMDadoda

8/29/2018 11:10:06 AM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 156.84 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050911.D

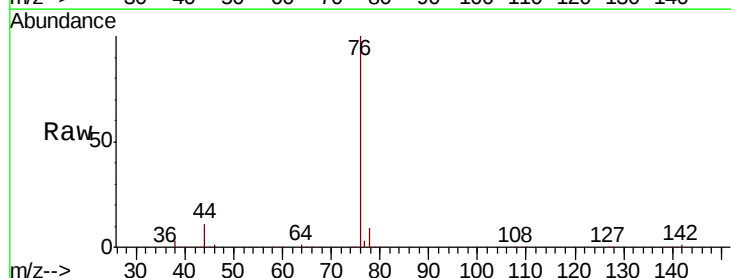
Acq: 28 Aug 2018 13:39

Tgt Ion: 76 Resp: 3139095

Ion Ratio Lower Upper

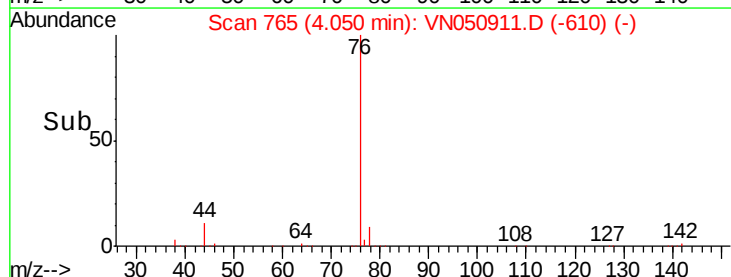
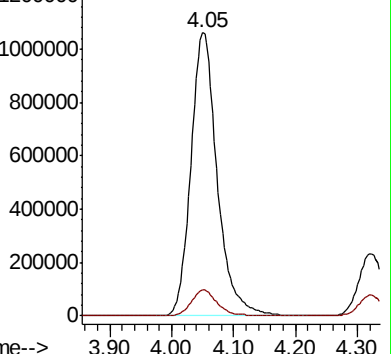
76 100

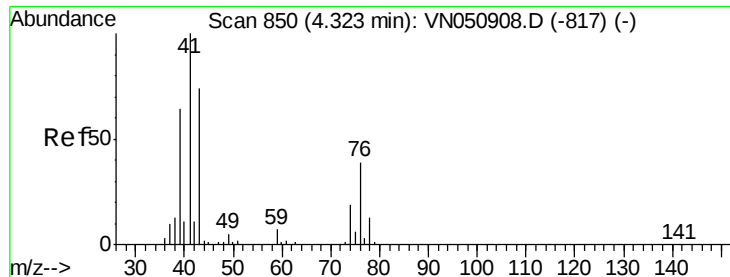
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





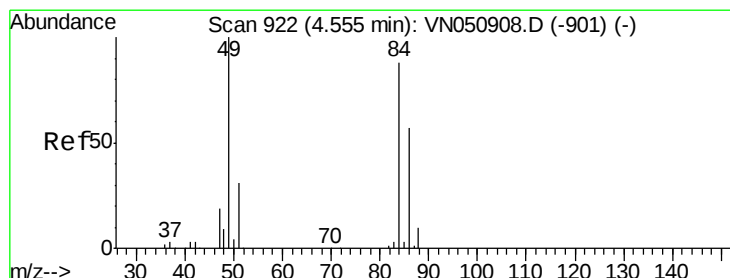
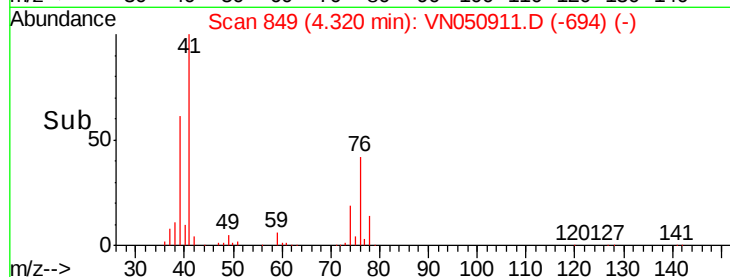
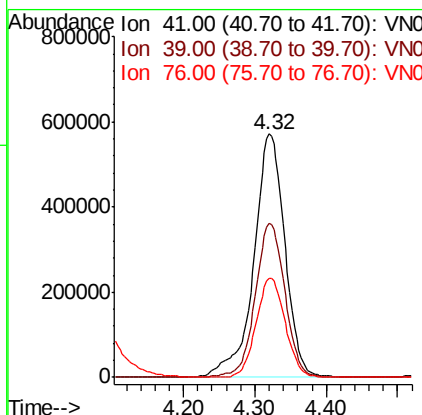
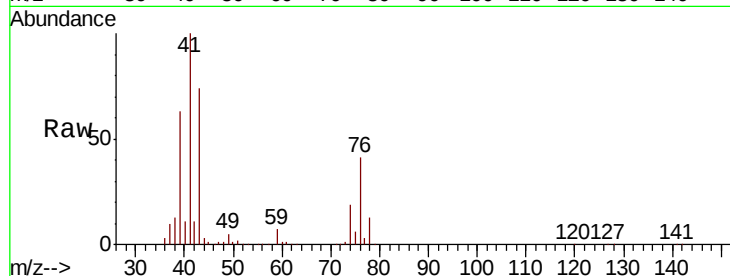
#17
Allvl chloride
Concen: 164.58 ug/l
RT: 4.32 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:	41	Resp:	1723790
Ion	Ratio	Lower	Upper
41	100		
39	63.2	32.2	96.6
76	40.8	19.6	58.7

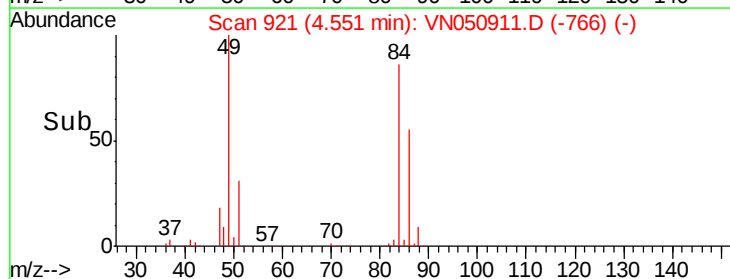
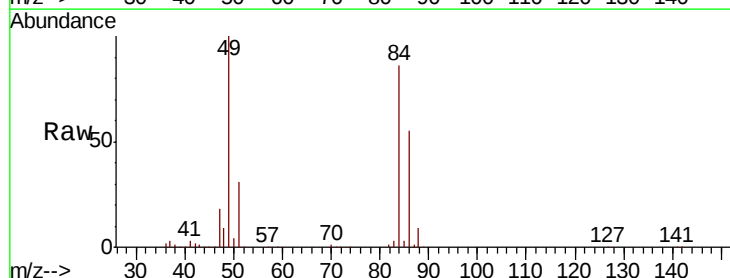
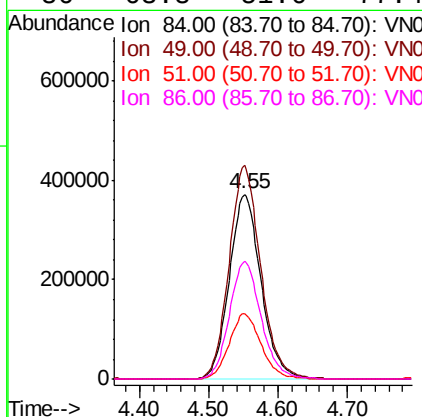
Manual Integrations
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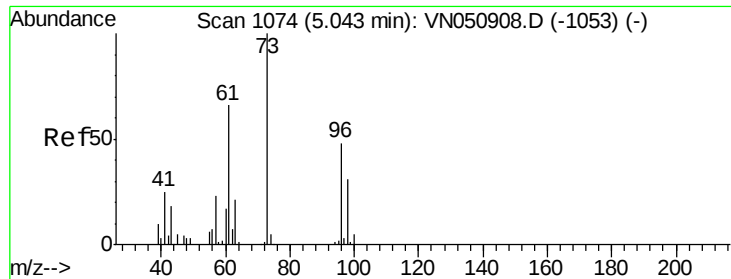
MMDadoda
8/29/2018 11:10:06 AM



#18
Methylene Chloride
Concen: 152.01 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion:	84	Resp:	1187704
Ion	Ratio	Lower	Upper
84	100		
49	115.8	90.6	135.8
51	35.7	28.4	42.6
86	63.8	51.6	77.4





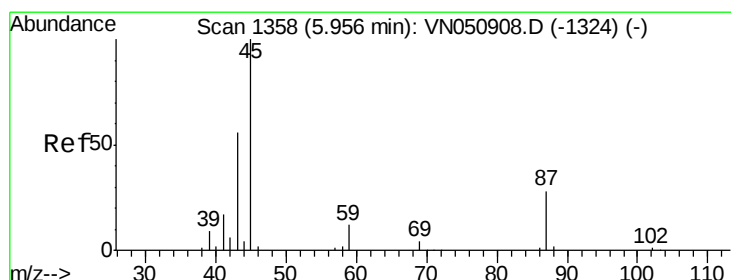
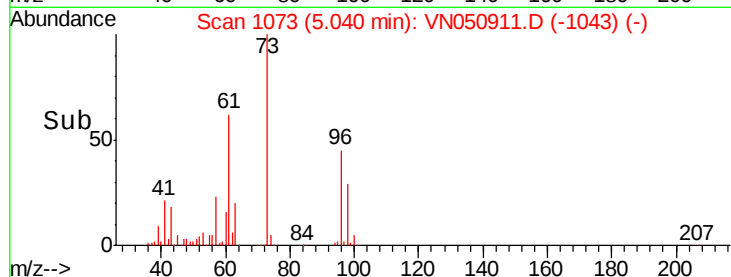
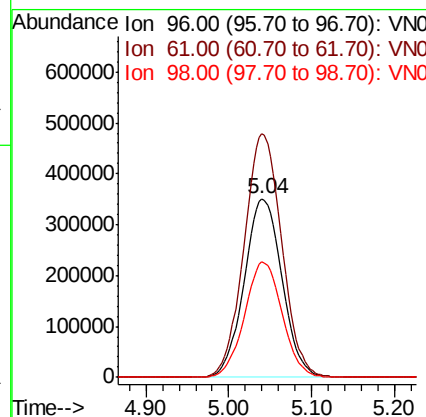
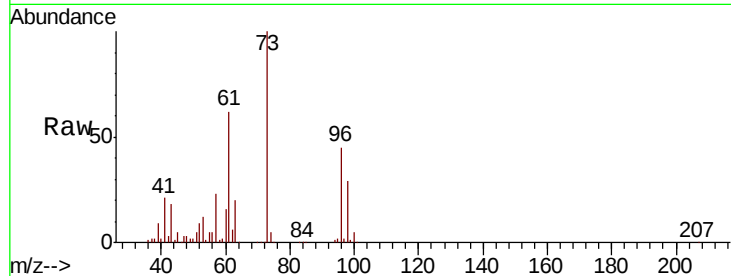
#19
trans-1,2-Dichloroethene
Concen: 157.19 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 96 Resp: 1114828
Ion Ratio Lower Upper
96 100
61 136.4 109.5 164.3
98 64.6 51.9 77.9

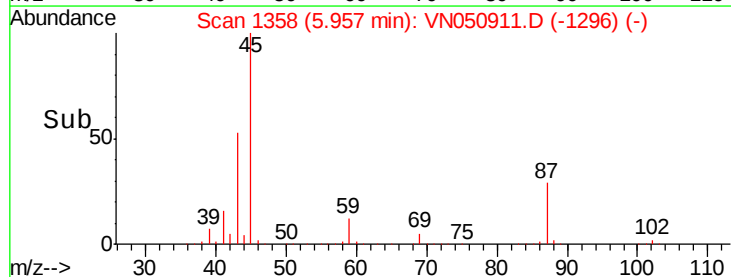
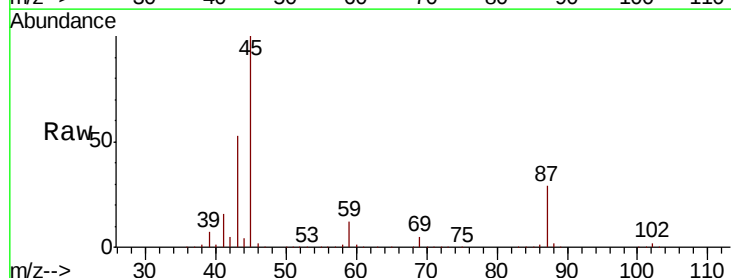
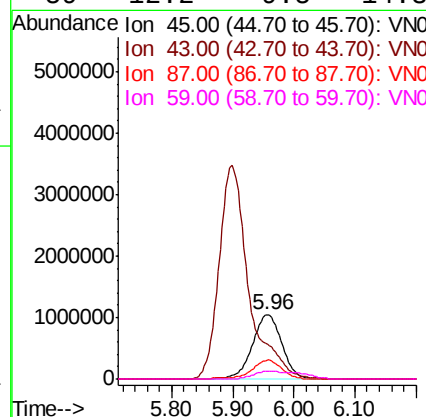
Manual Integrations
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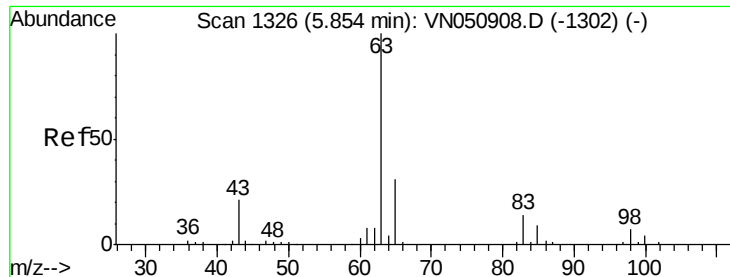
MMDadoda
8/29/2018 11:10:06 AM



#20
Diisopropyl ether
Concen: 160.62 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion: 45 Resp: 3492143
Ion Ratio Lower Upper
45 100
43 53.0 47.0 70.6
87 29.2 22.8 34.2
59 12.2 9.5 14.3





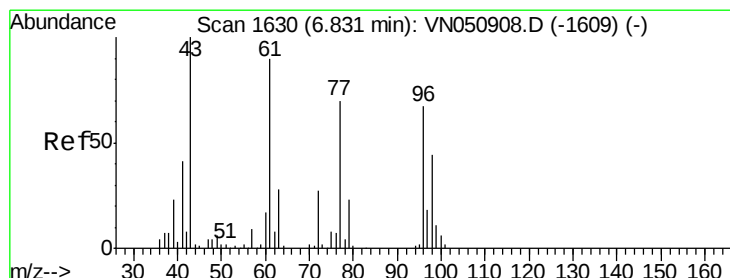
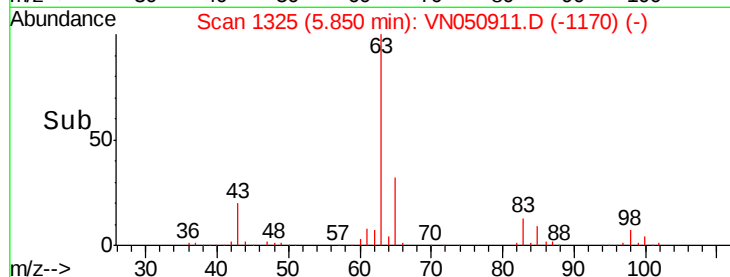
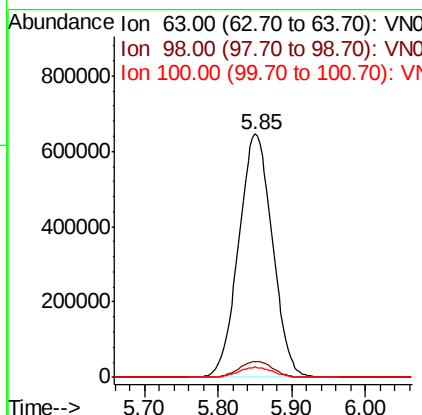
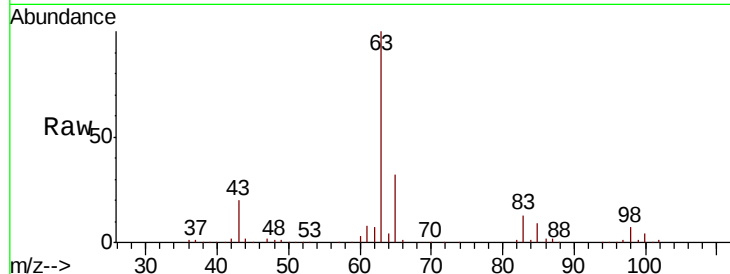
#21
 1,1-Dichloroethane
 Concen: 154.65 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.1	2.0	6.0

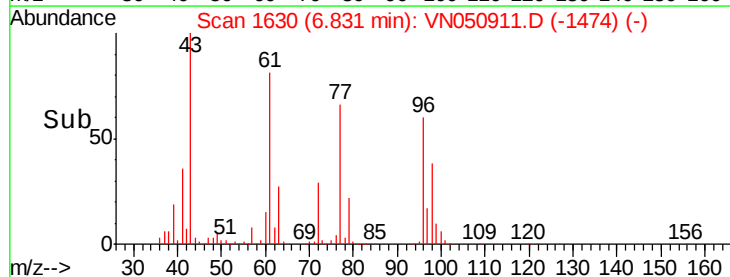
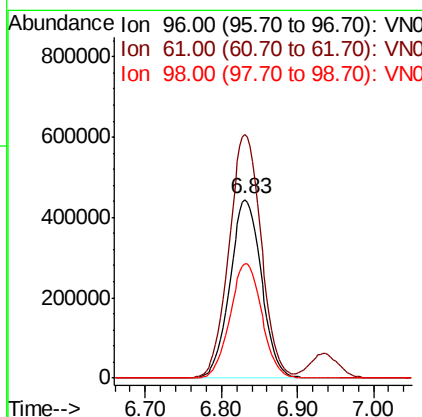
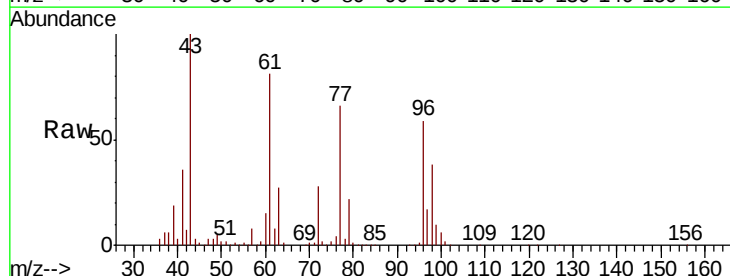
Manual Integrations
 APPROVED

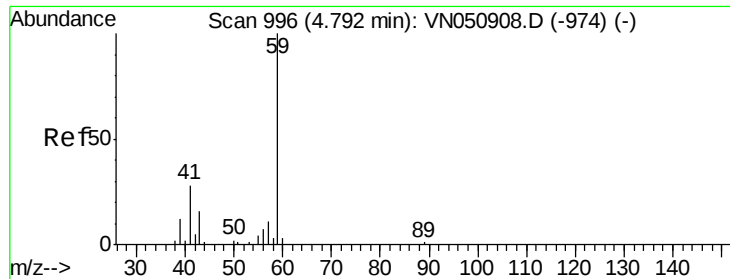
MMDadoda
 8/29/2018 11:10:06 AM



#22
 cis-1,2-Dichloroethene
 Concen: 159.83 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.2	110.0	165.0
98	64.8	51.7	77.5





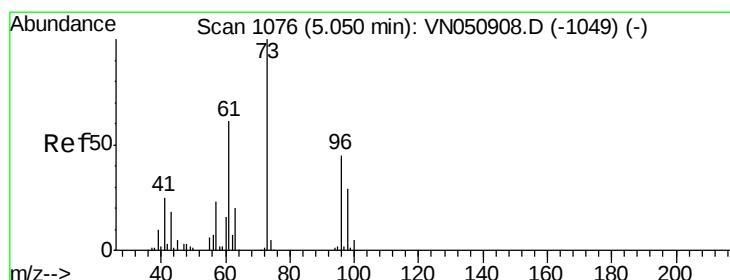
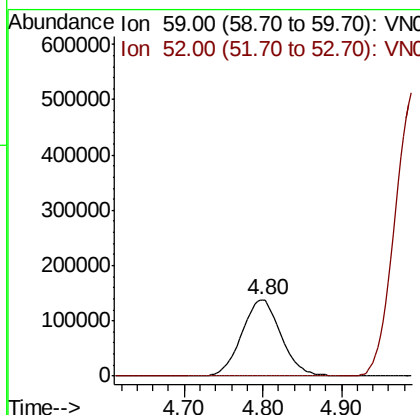
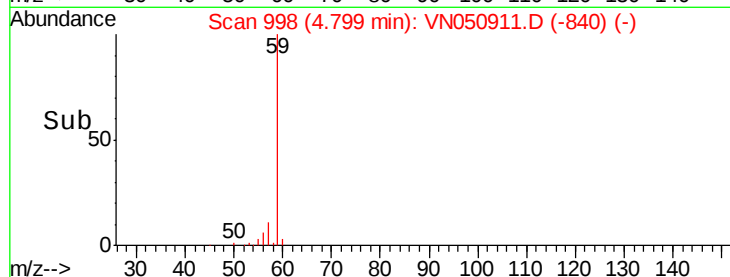
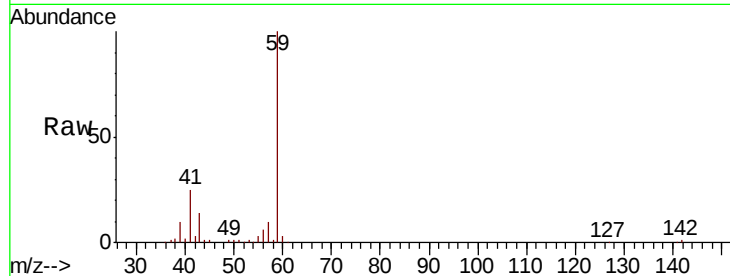
#23
 tert-Butyl Alcohol
 Concen: 881.54 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. 0.01 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 59 Resp: 487912
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.1 0.1#

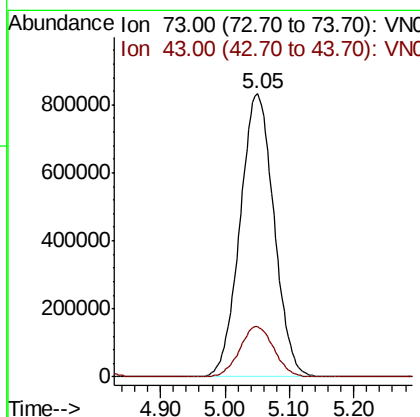
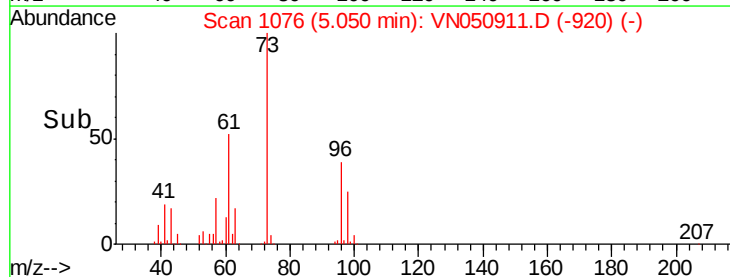
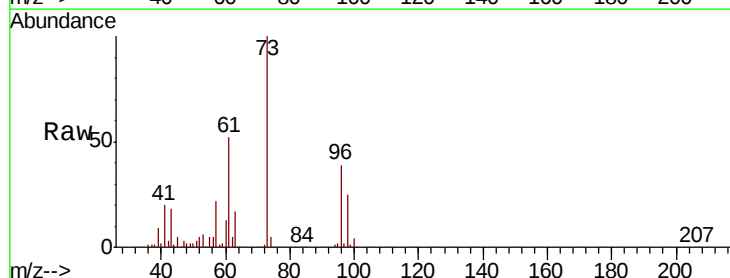
Manual Integrations
 APPROVED

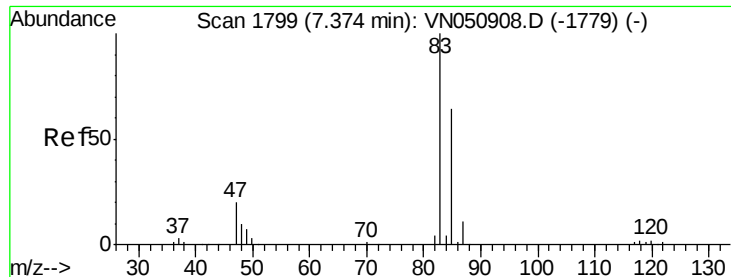
MMDadoda
 8/29/2018 11:10:06 AM



#24
 Methyl tert-Butyl Ether
 Concen: 167.55 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion: 73 Resp: 3050524
 Ion Ratio Lower Upper
 73 100
 43 17.9 14.4 21.6





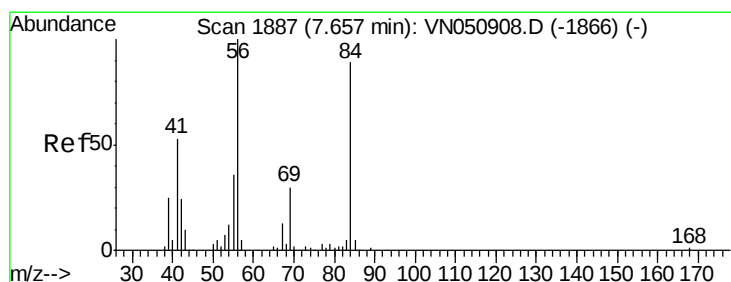
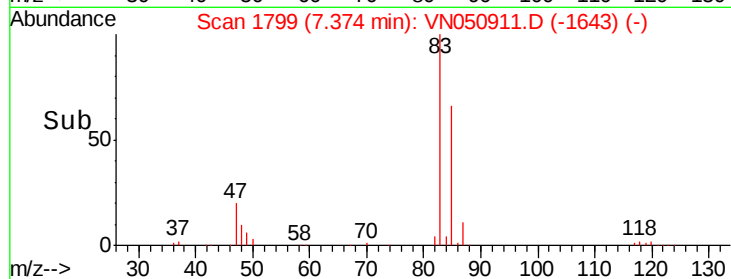
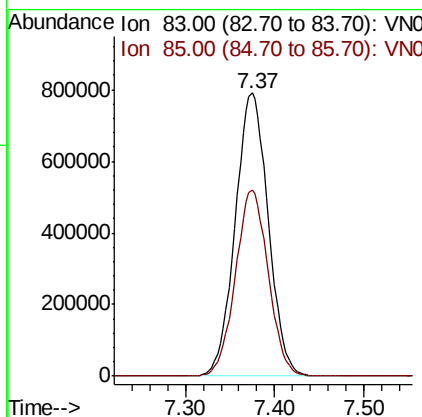
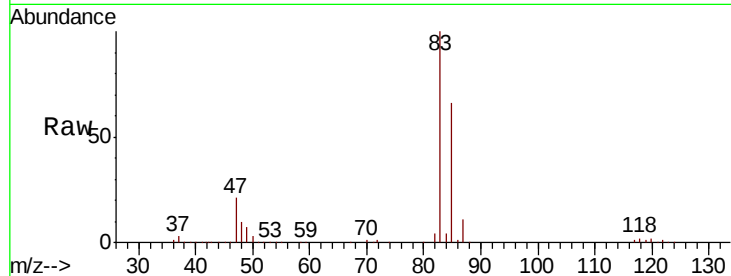
#25
Chloroform
Concen: 152.71 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 2031771
Ion Ratio Lower Upper
83 100
85 65.8 51.4 77.0

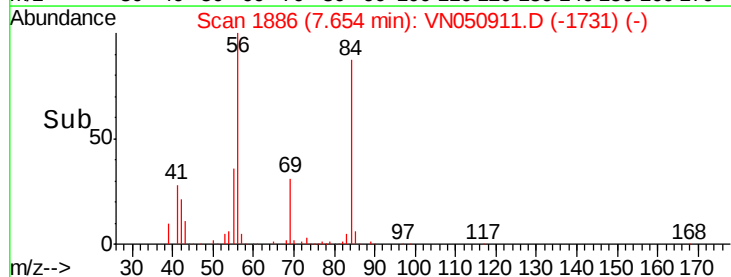
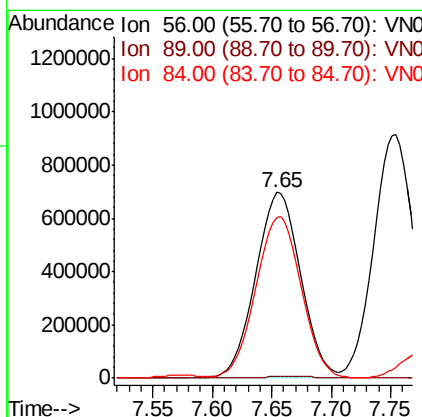
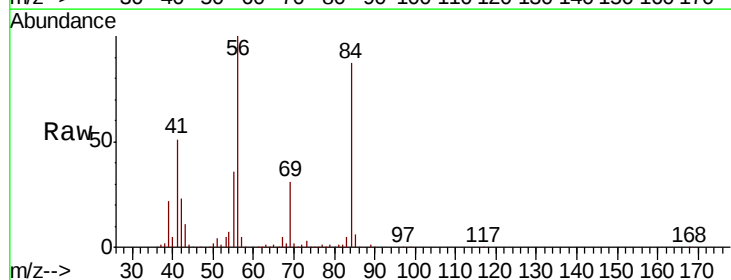
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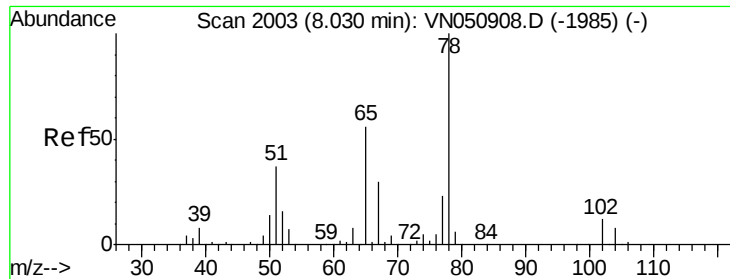
MMDadoda
8/29/2018 11:10:06 AM



#26
Cyclohexane
Concen: 165.75 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion: 56 Resp: 1830530
Ion Ratio Lower Upper
56 100
89 1.0 0.4 0.6#
84 87.7 70.4 105.6





#27

1,2-Dichloroethane-d4

Concen: 31.02 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 65 Resp: 243876

Ion Ratio Lower Upper

65 100

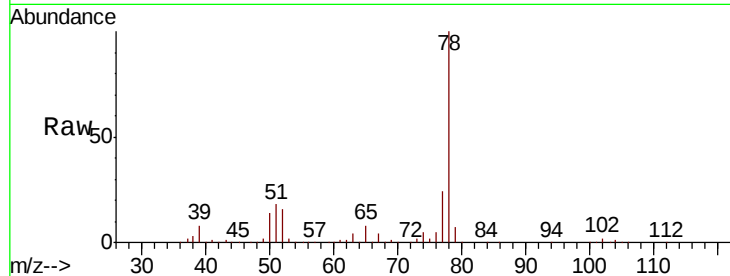
67 53.8 43.7 65.5

Manual Integrations

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MMDadoda

8/29/2018 11:10:06 AM



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

120000

100000

80000

60000

40000

20000

0

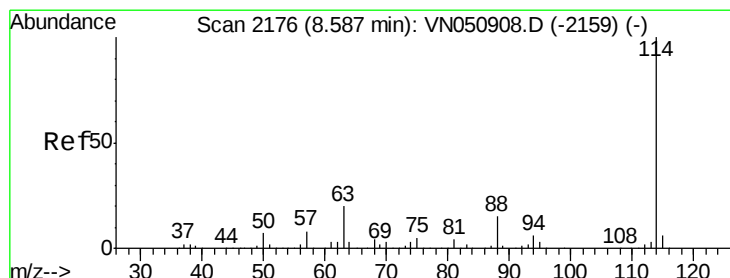
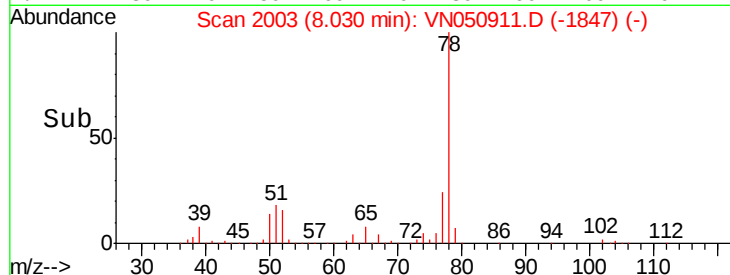
7.95

8.00

8.05

8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

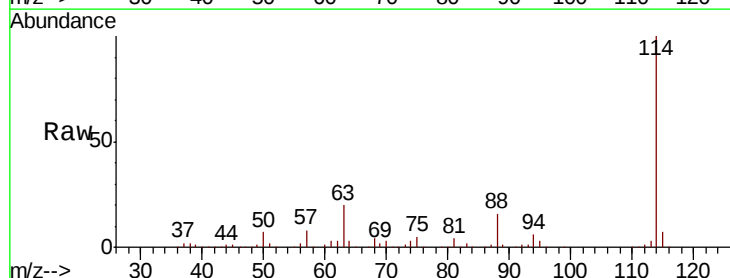
Tgt Ion: 114 Resp: 706037

Ion Ratio Lower Upper

114 100

63 19.5 15.6 23.4

88 15.4 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

400000

300000

200000

100000

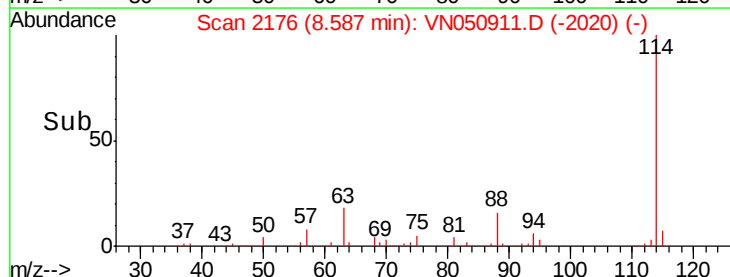
0

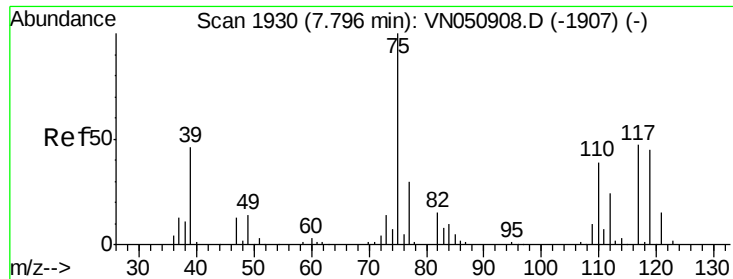
8.50

8.60

8.70

Time-->





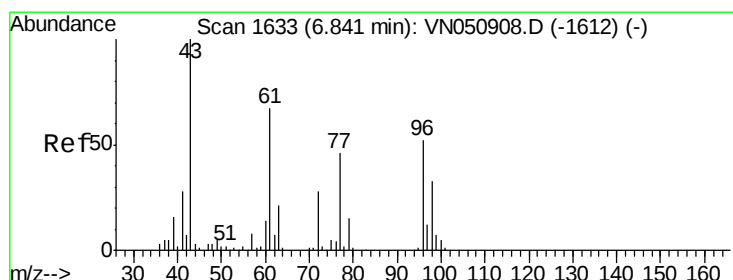
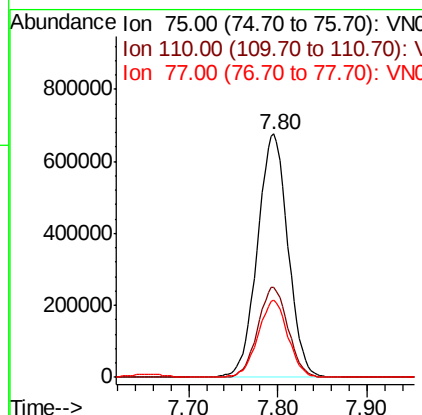
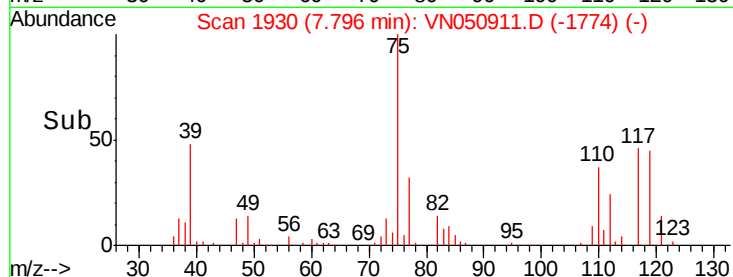
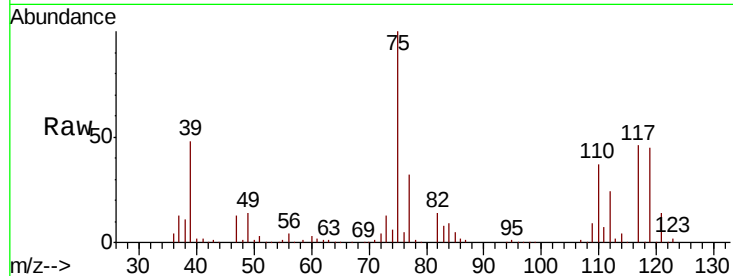
#29
 1,1-Dichloropropene
 Concen: 152.58 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 75 Resp: 1612806
 Ion Ratio Lower Upper
 75 100
 110 36.7 0.0 75.0
 77 31.1 0.0 60.6

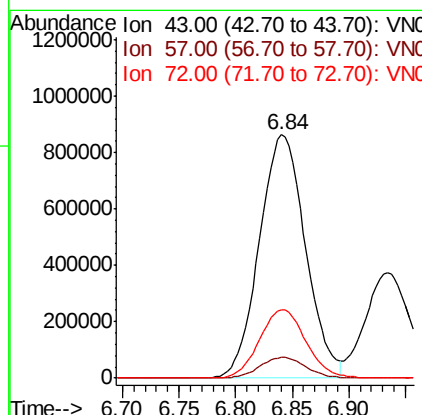
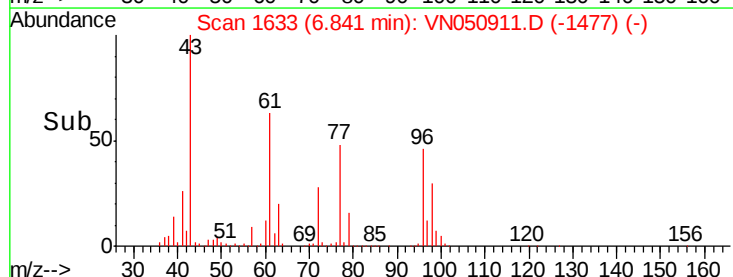
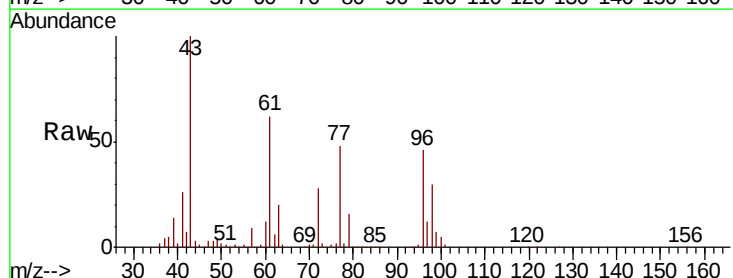
Manual Integrations
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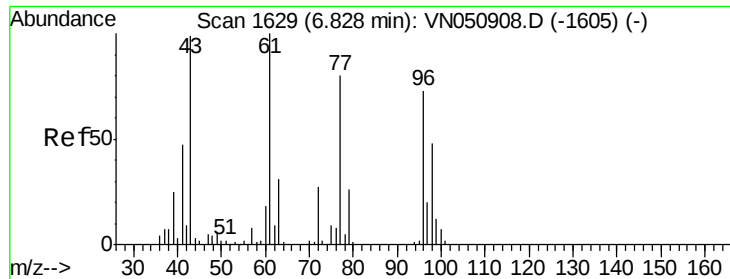
MMDadoda
 8/29/2018 11:10:06 AM



#30
 2-Butanone
 Concen: 750.98 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion: 43 Resp: 2441938
 Ion Ratio Lower Upper
 43 100
 57 8.5 6.9 10.3
 72 28.5 22.8 34.2





#31

2,2-Dichloropropane

Concen: 154.77 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 77 Resp: 1591823

Ion Ratio Lower Upper

77 100

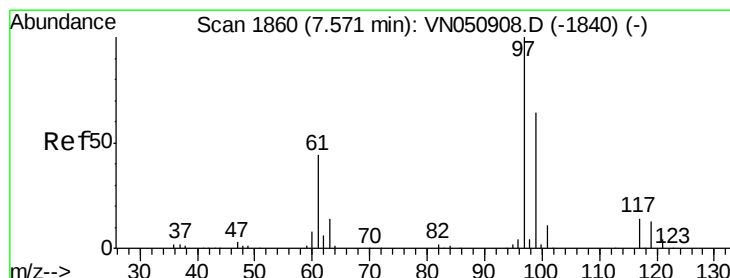
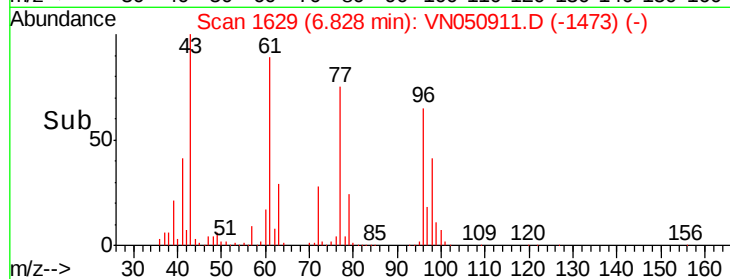
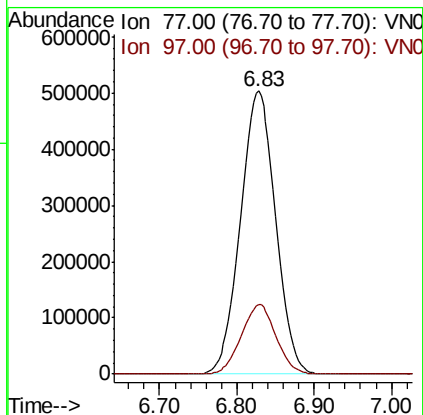
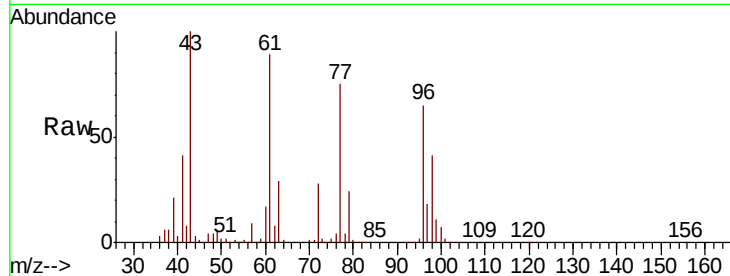
97 24.3 20.2 30.2

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 147.42 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

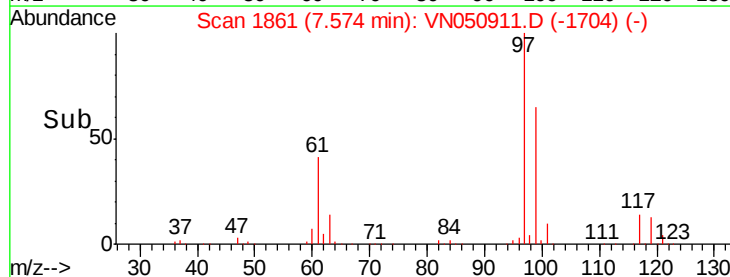
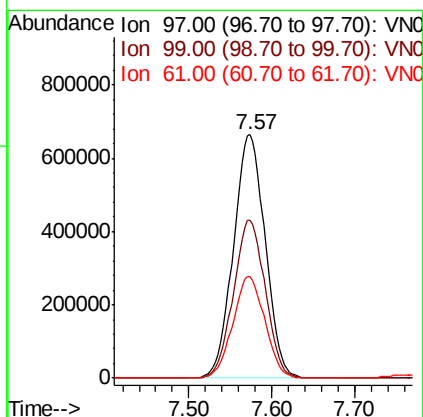
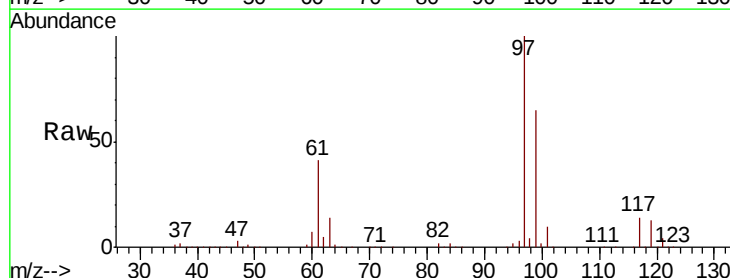
Tgt Ion: 97 Resp: 1766992

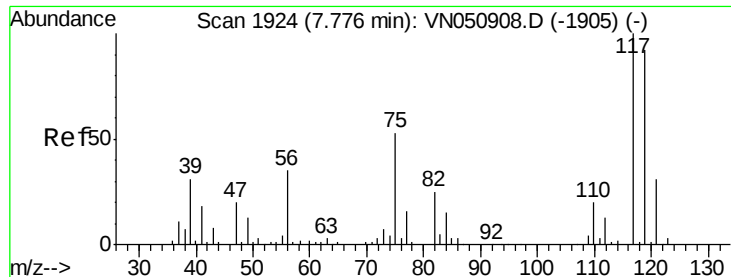
Ion Ratio Lower Upper

97 100

99 65.0 52.0 78.0

61 42.1 35.0 52.6





#33

Carbon Tetrachloride

Concen: 147.62 ug/l

RT: 7.78 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:117 Resp: 1593451

Ion Ratio Lower Upper

117 100

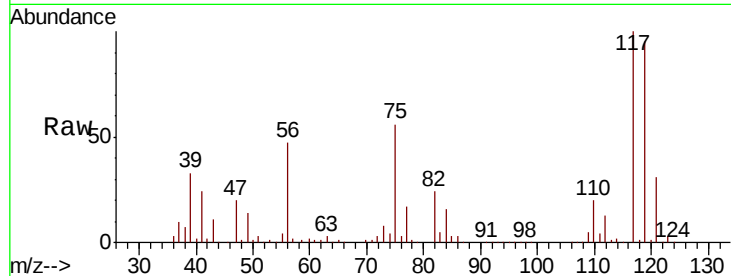
119 95.4 73.5 110.3

121 30.8 24.6 37.0

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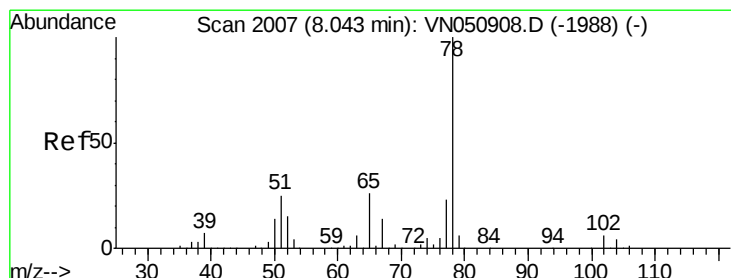
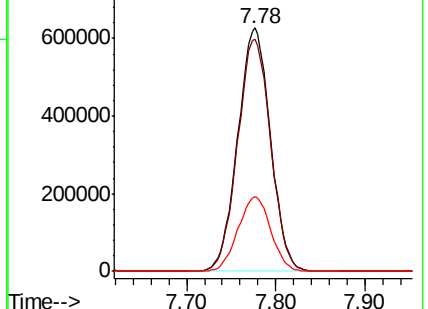
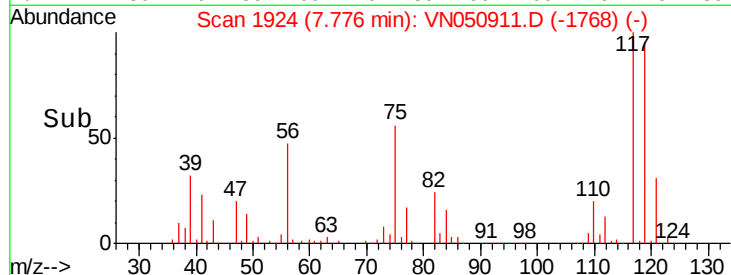
8/29/2018 11:10:06 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 147.82 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

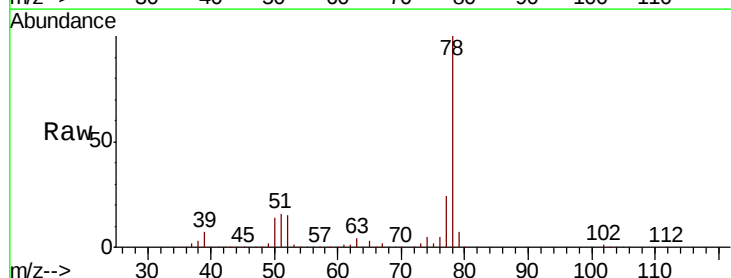
Tgt Ion: 78 Resp: 4833556

Ion Ratio Lower Upper

78 100

77 23.6 18.6 28.0

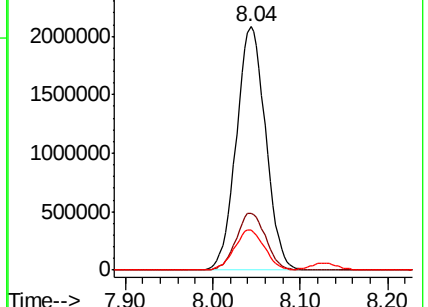
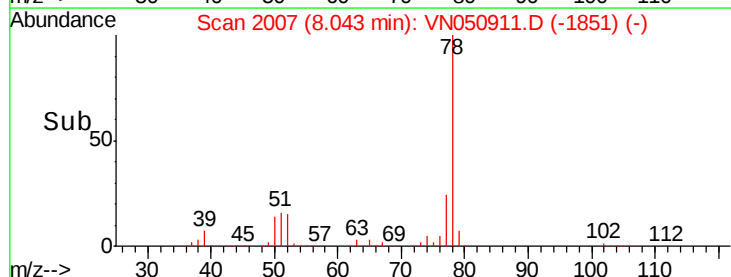
51 16.2 20.0 30.0#

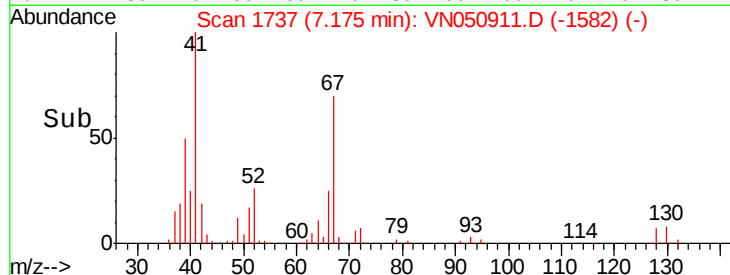
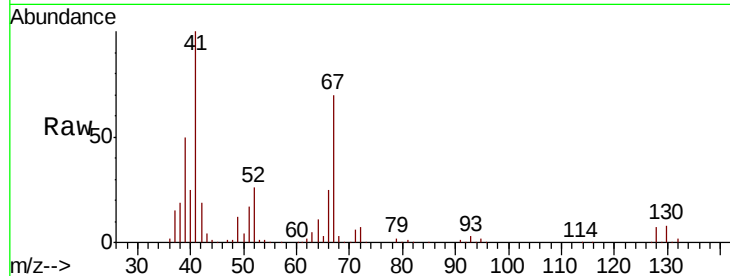
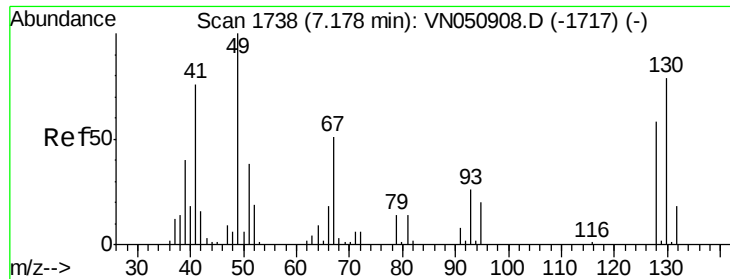


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

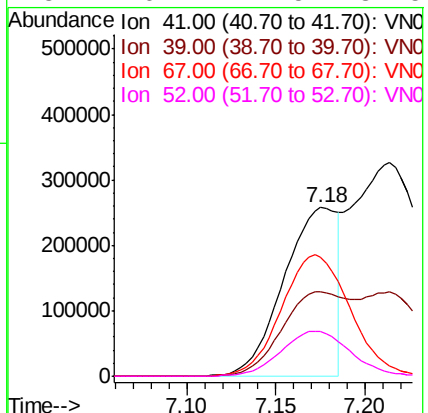
Ion 51.00 (50.70 to 51.70): V





#35
Methacrylonitrile
Concen: 150.94 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

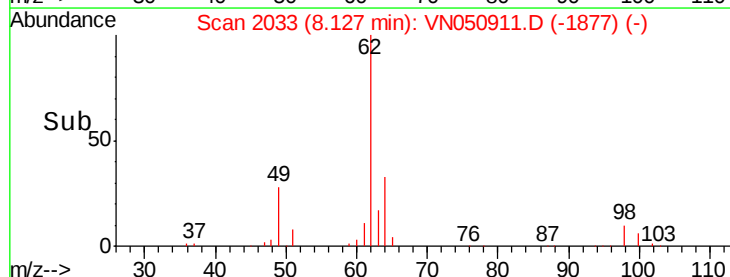
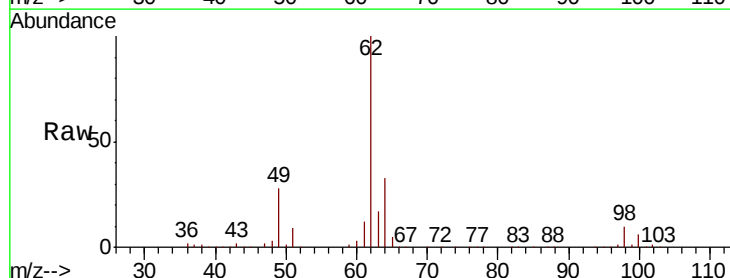
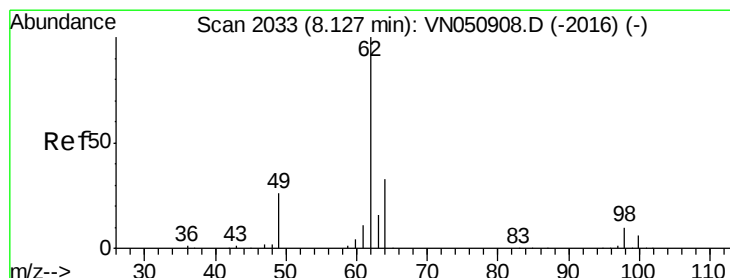
Tot Ion	Ratio	Lower	Upper
41	100		
39	50.2	26.2	78.5
67	70.6	33.9	101.6
52	26.1	12.5	37.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

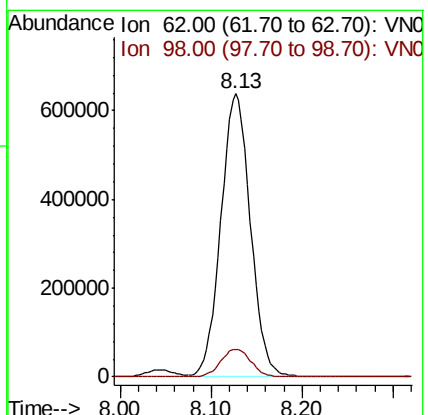
Manual Integrations
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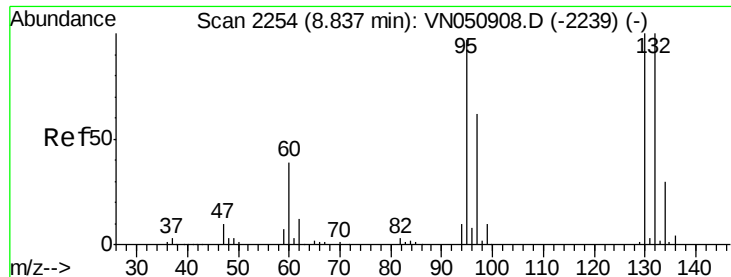
MMDadoda
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#36
1,2-Dichloroethane
Concen: 145.39 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	8.0	12.0





#37

Trichloroethene

Concen: 150.23 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:130 Resp: 1283917

Ion Ratio Lower Upper

130 100

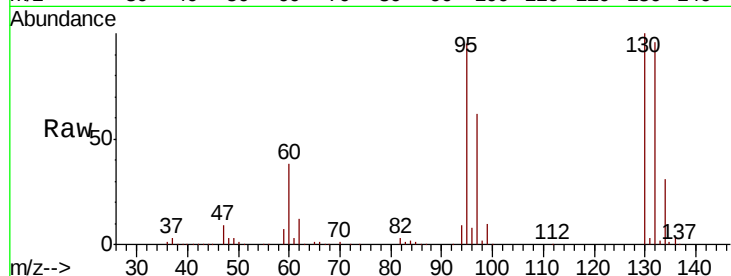
95 95.4 77.4 116.0

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

600000

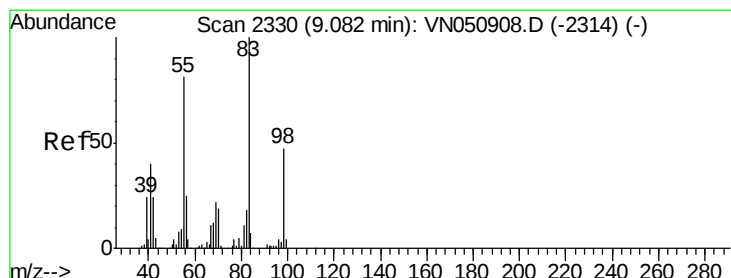
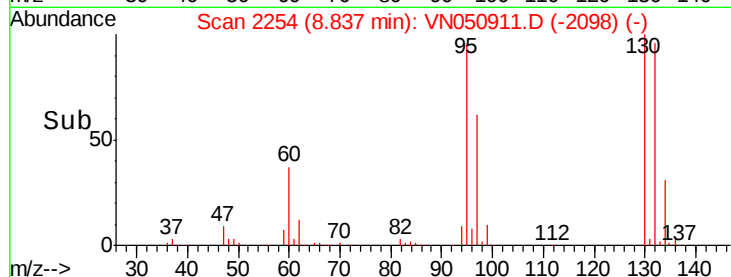
400000

200000

0

8.75 8.80 8.85 8.90 8.95

Time-->



#38

Methylcyclohexane

Concen: 160.13 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

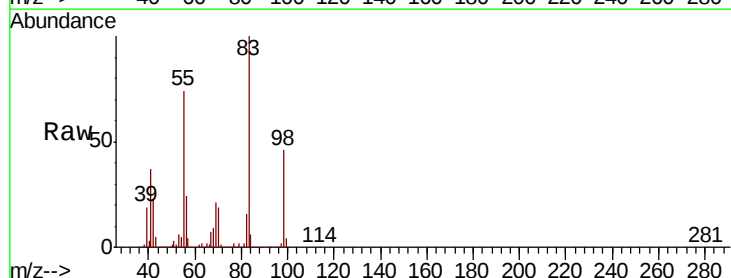
Tgt Ion: 83 Resp: 1817815

Ion Ratio Lower Upper

83 100

55 73.8 38.9 116.7

98 46.3 22.9 68.7



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

1200000

1000000

800000

600000

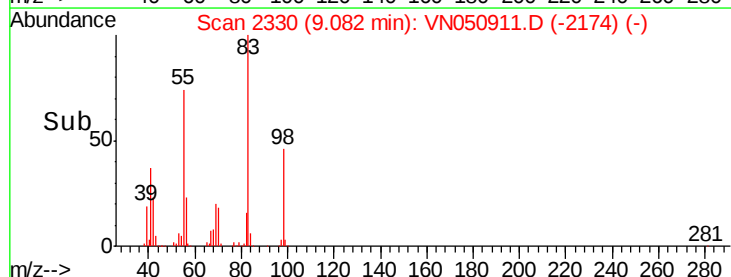
400000

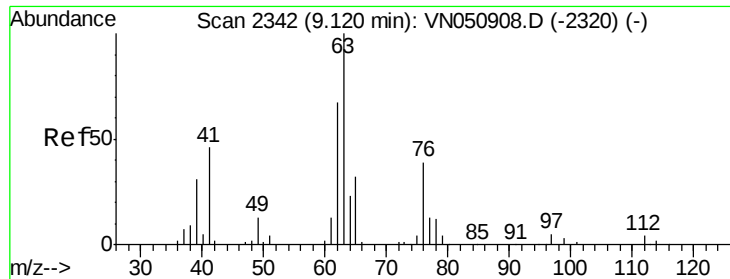
200000

0

9.00 9.10 9.20

Time-->





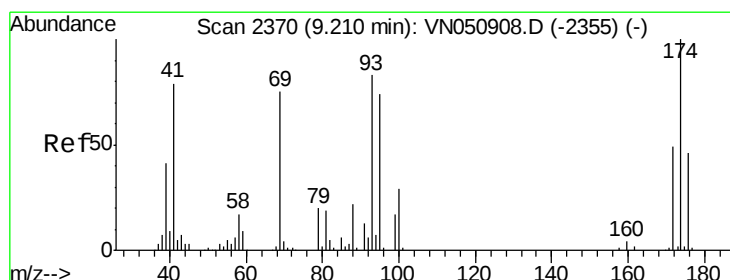
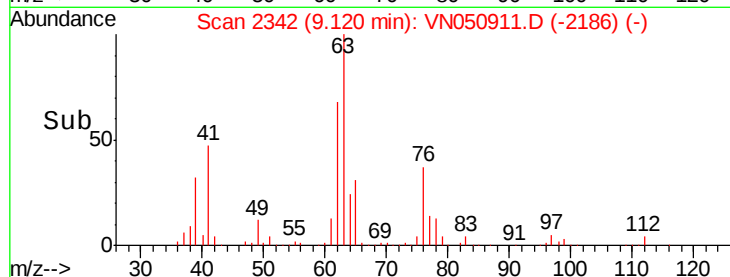
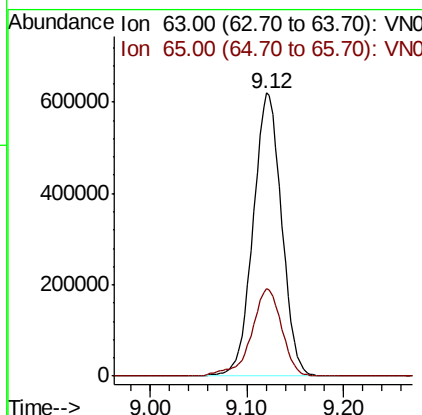
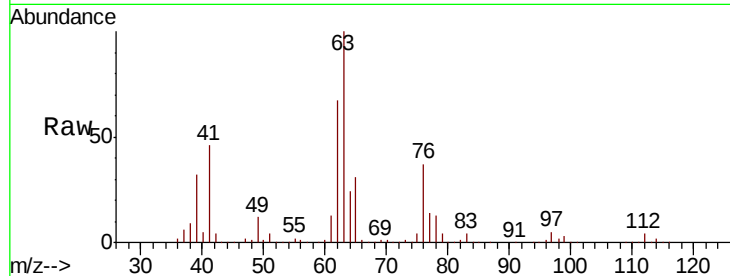
#39
 1,2-Dichloropropane
 Concen: 148.44 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 1267728
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.6 38.4

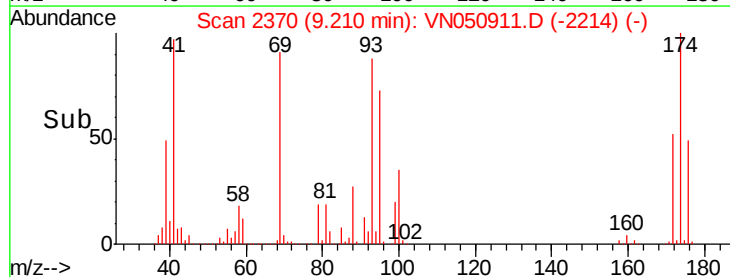
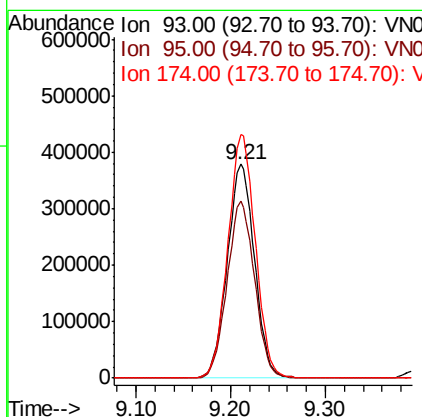
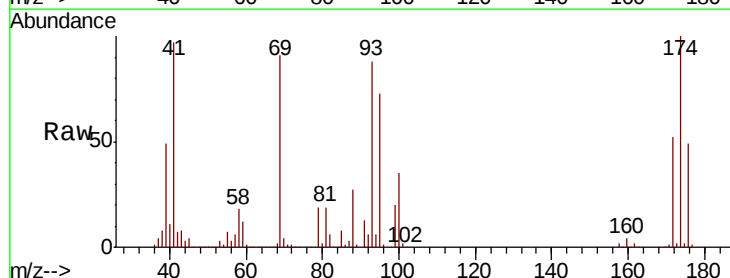
Manual Integrations
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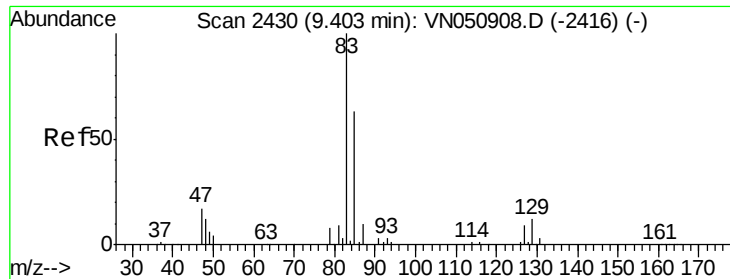
MMDadoda
 8/29/2018 11:10:06 AM



#40
 Dibromomethane
 Concen: 147.78 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion: 93 Resp: 760249
 Ion Ratio Lower Upper
 93 100
 95 82.9 0.0 173.4
 174 114.4 0.0 234.8





#41

Bromodichloromethane

Concen: 148.82 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1613885

Ion Ratio Lower Upper

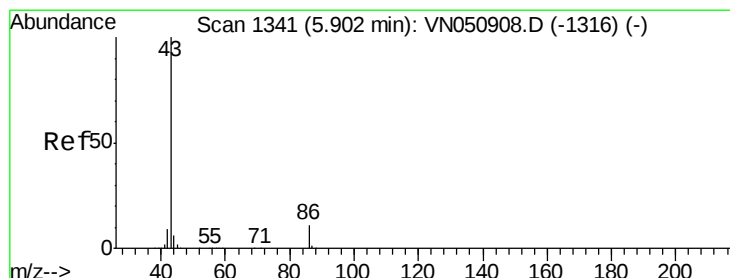
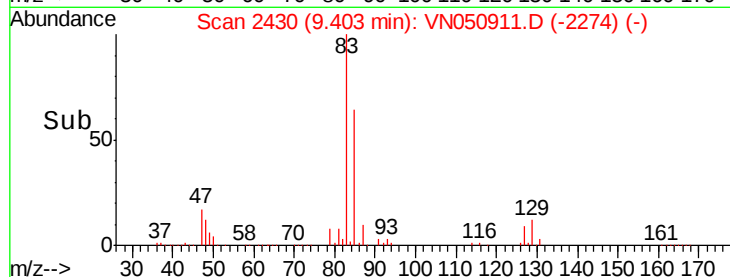
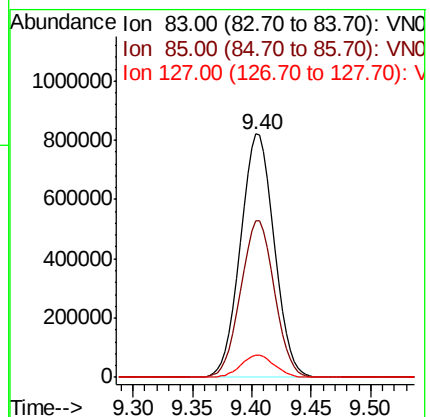
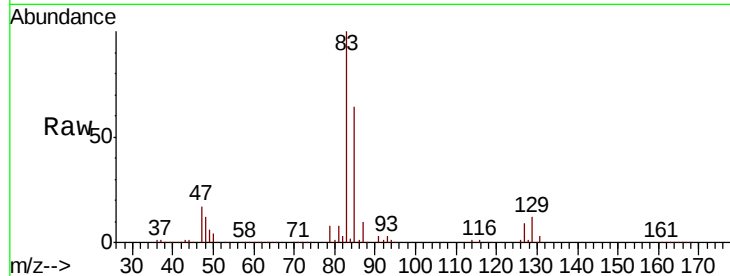
83 100

85 64.1 50.6 76.0

127 9.0 7.1 10.7

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:06 AM



#42

Vinyl Acetate

Concen: 783.78 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN050911.D

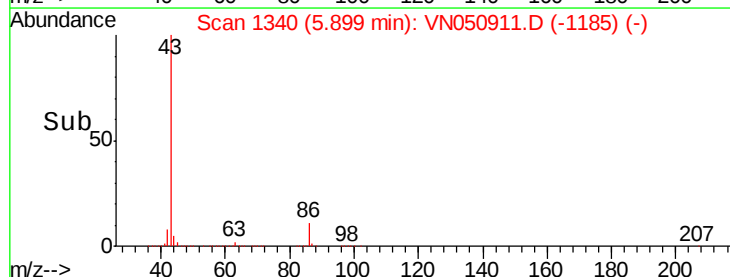
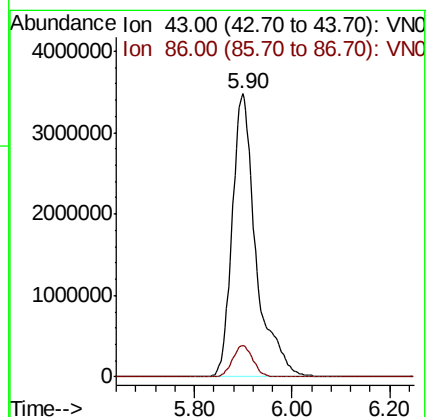
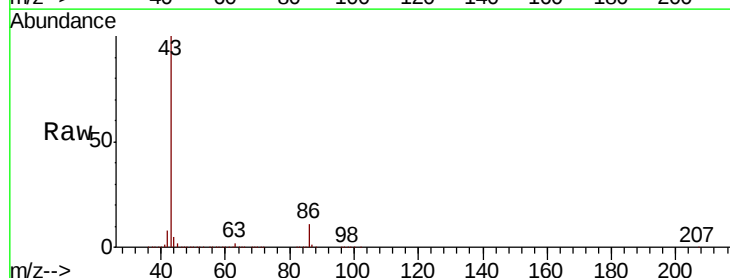
Acq: 28 Aug 2018 13:39

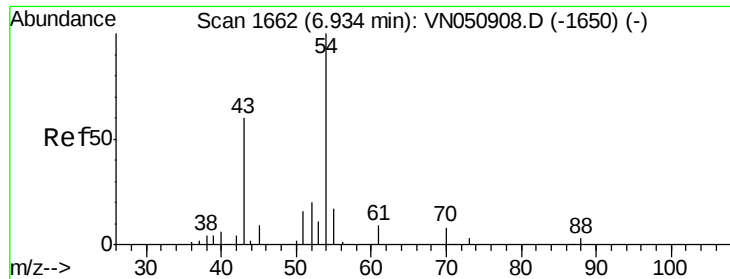
Tgt Ion: 43 Resp: 11739155

Ion Ratio Lower Upper

43 100

86 9.6 7.2 10.8





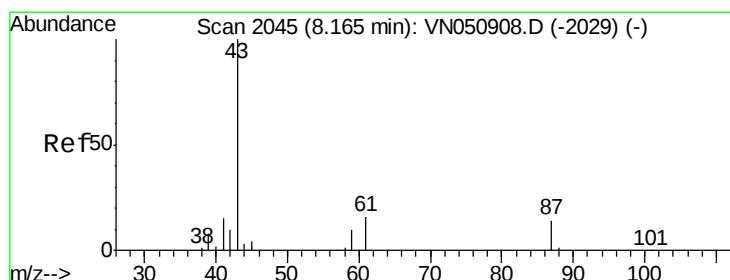
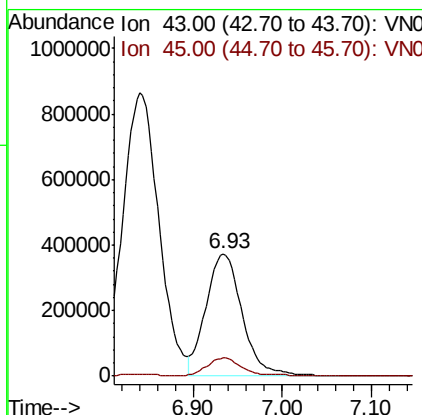
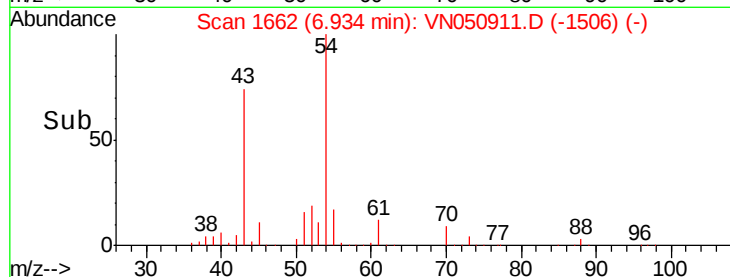
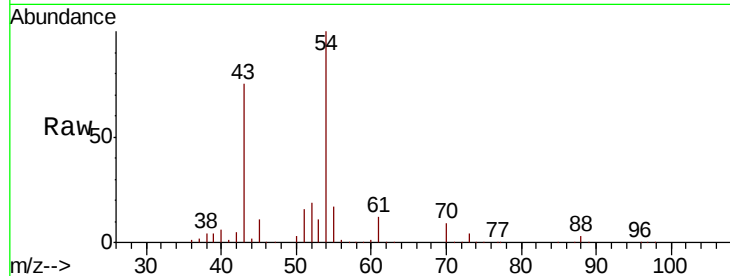
#43
Ethyl Acetate
Concen: 156.25 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 1040815
Ion Ratio Lower Upper
43 100
45 15.1 10.2 15.2

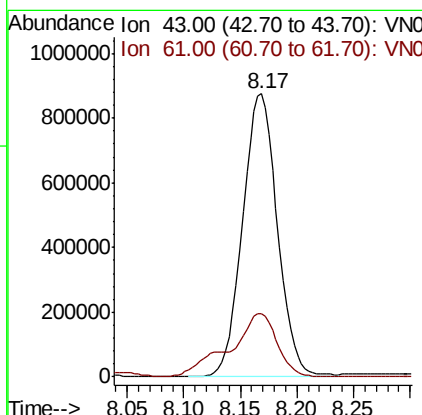
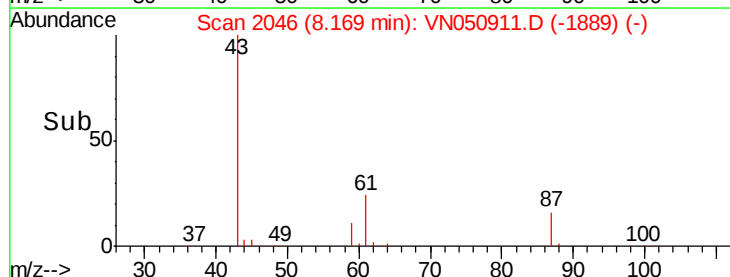
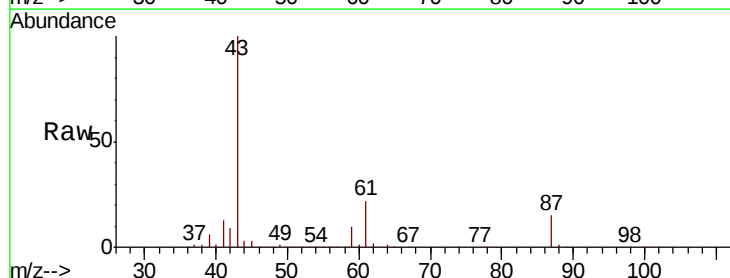
Manual Integrations
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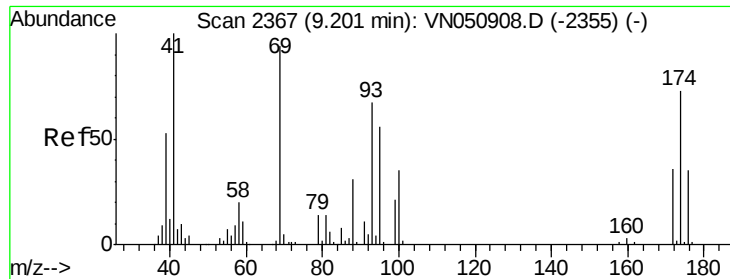
MMDadoda
8/29/2018 11:10:06 AM



#44
Isopropyl Acetate
Concen: 159.50 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion: 43 Resp: 1874789
Ion Ratio Lower Upper
43 100
61 21.8 16.3 24.5





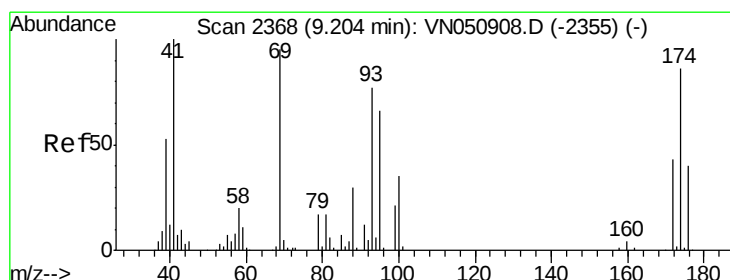
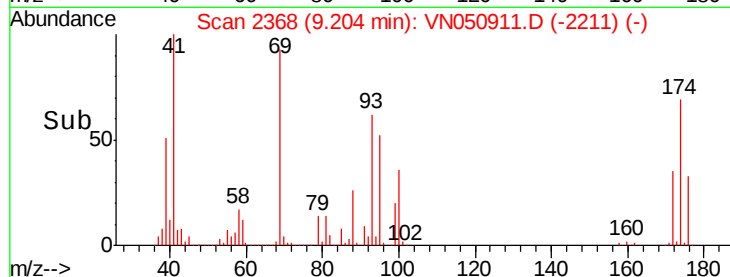
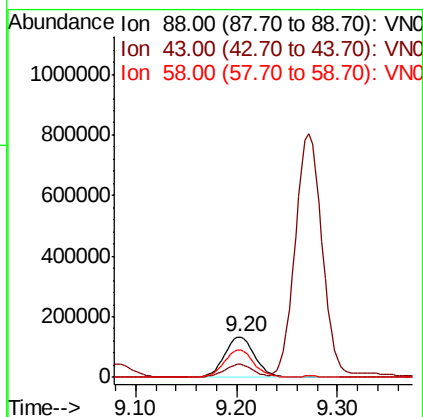
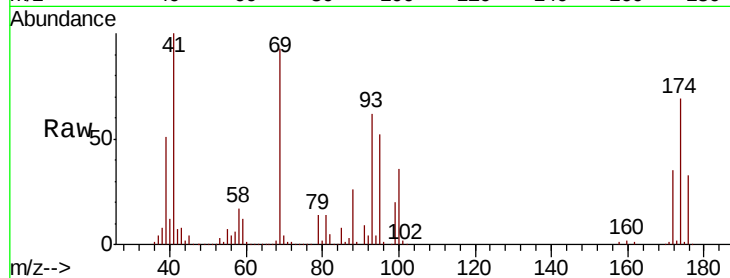
#45
 1,4-Dioxane
 Concen: 3198.79 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.5	23.5	35.3
58	67.0	55.2	82.8

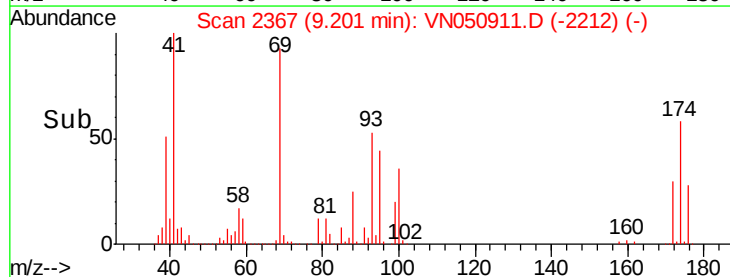
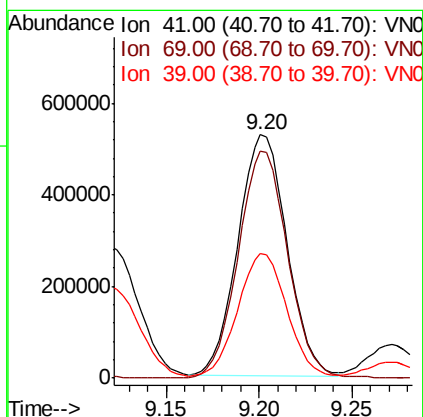
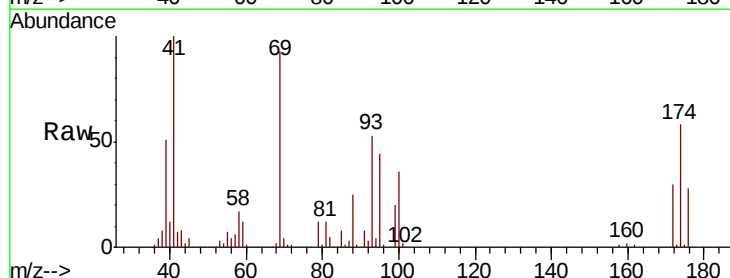
Manual Integrations
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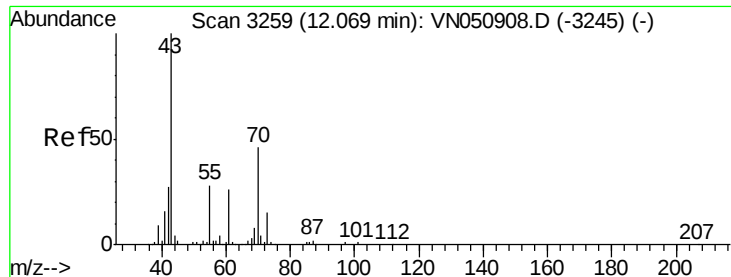
MMDadoda
 8/29/2018 11:10:06 AM



#46
 Methyl methacrylate
 Concen: 163.78 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
41	100		
69	94.1	47.4	142.2
39	50.9	26.6	79.7





#47

n-amvl Acetate

Concen: 171.99 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1625372

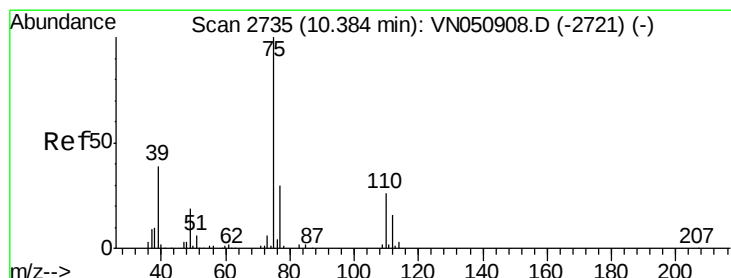
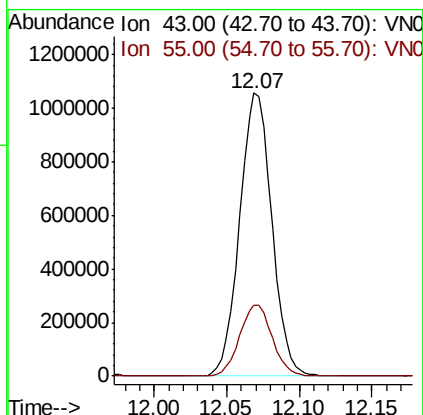
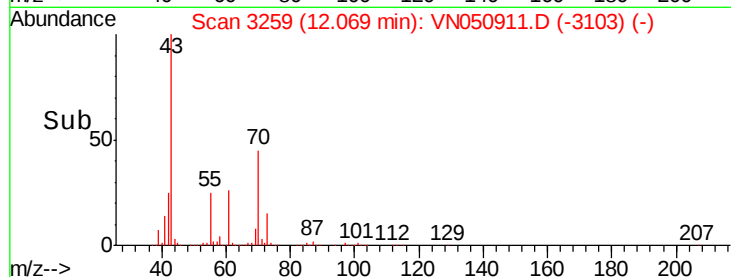
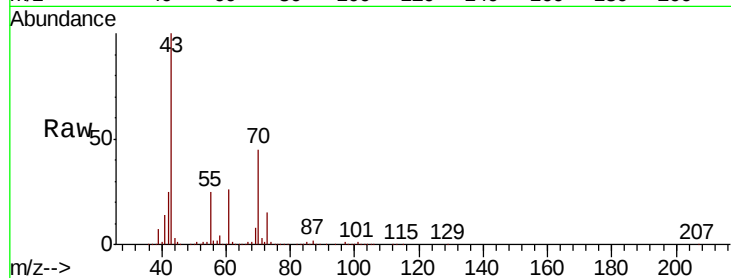
Ion Ratio Lower Upper

43 100

55 25.6 23.0 34.4

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:06 AM



#48

t-1,3-Dichloropropene

Concen: 163.28 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050911.D

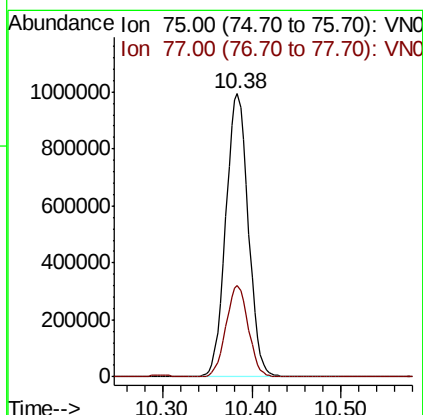
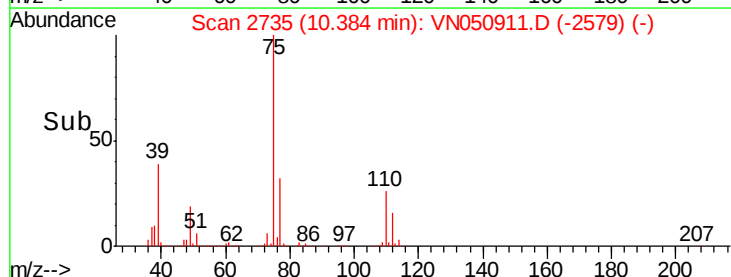
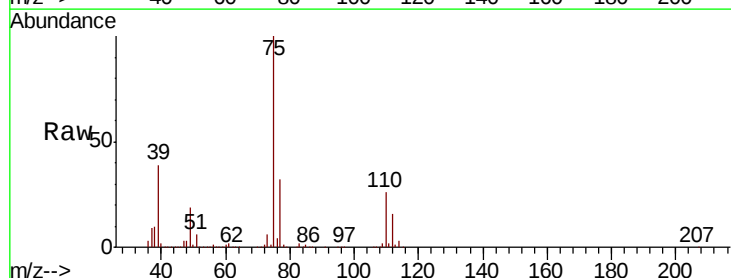
Acq: 28 Aug 2018 13:39

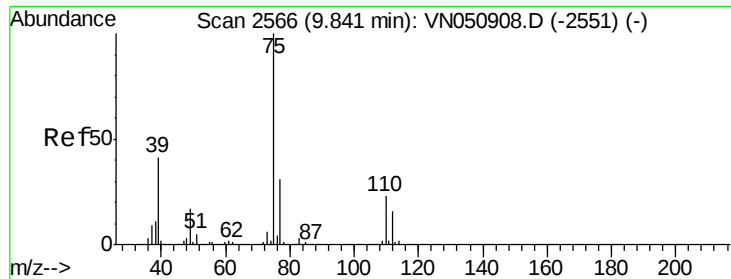
Tgt Ion: 75 Resp: 1735667

Ion Ratio Lower Upper

75 100

77 32.2 24.8 37.2





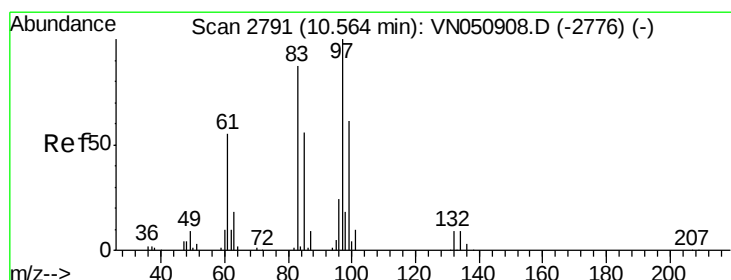
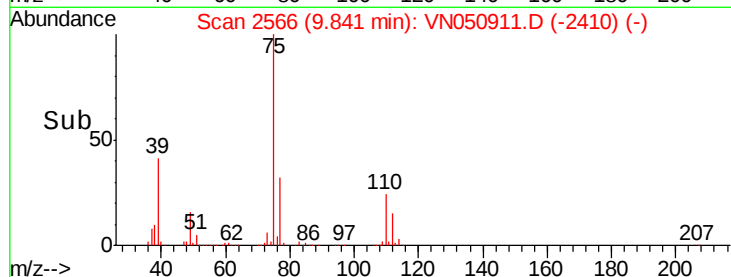
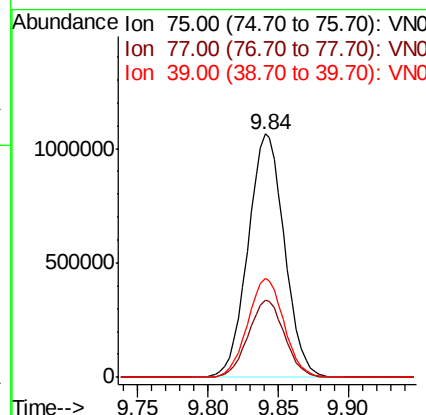
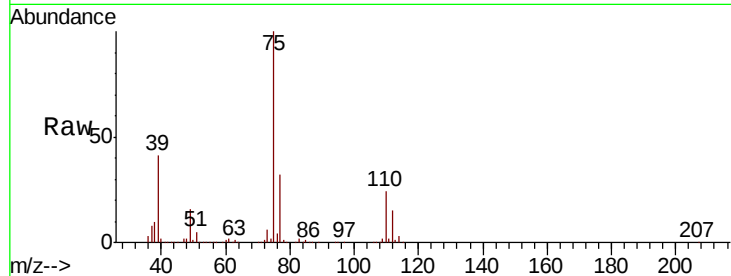
#49
 cis-1,3-Dichloropropene
 Concen: 157.25 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.0	37.4
39	40.6	32.9	49.3

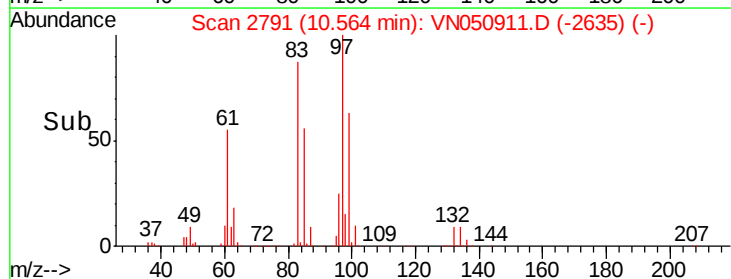
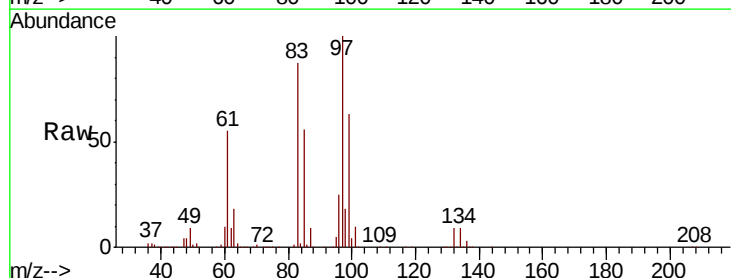
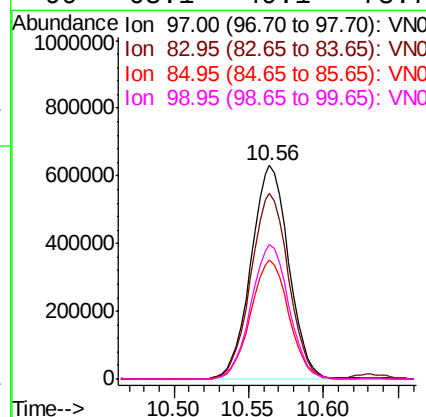
Manual Integrations
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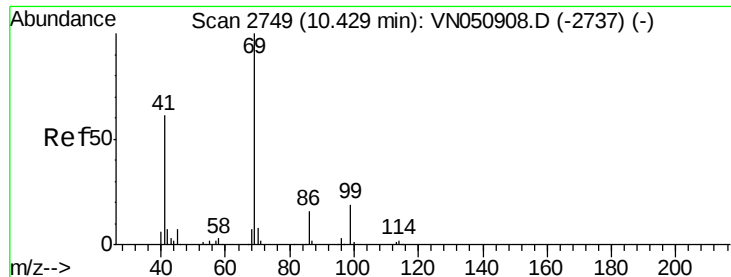
MMDadoda
 8/29/2018 11:10:06 AM



#50
 1,1,2-Trichloroethane
 Concen: 147.98 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.8	104.6
85	55.7	45.0	67.6
99	63.1	49.1	73.7





#51

Ethyl methacrylate

Concen: 166.97 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 69 Resp: 1526997

Ion Ratio Lower Upper

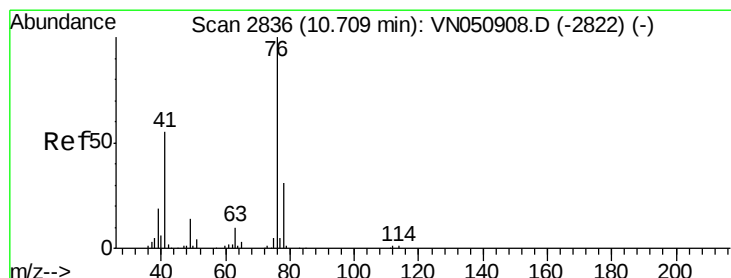
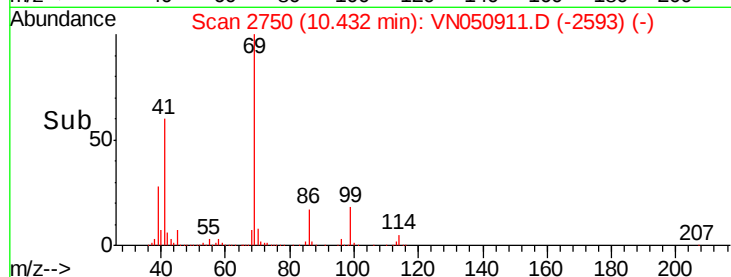
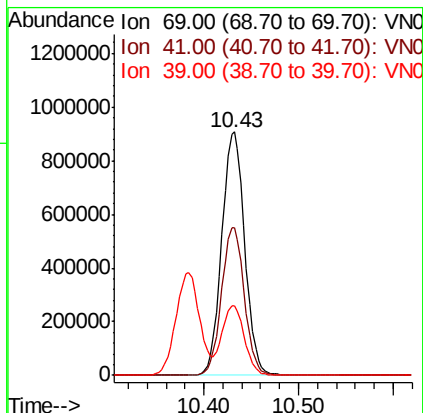
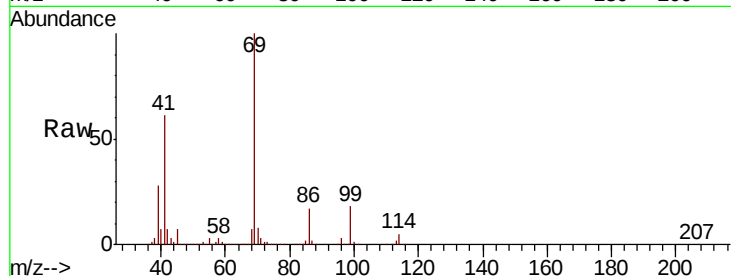
69 100

41 60.6 30.5 91.5

39 28.3 15.3 45.8

Manual Integrations
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8/29/2018 11:10:06 AM



#52

1,3-Dichloropropane

Concen: 151.10 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050911.D

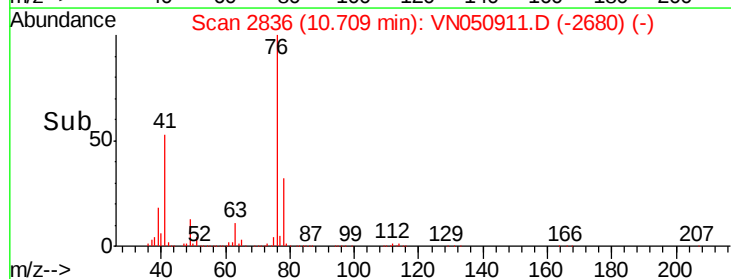
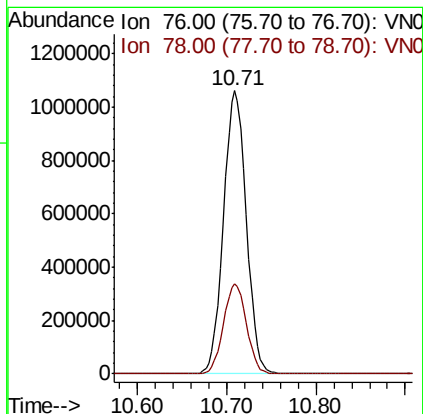
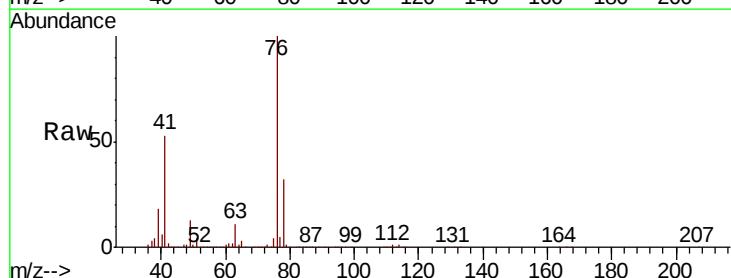
Acq: 28 Aug 2018 13:39

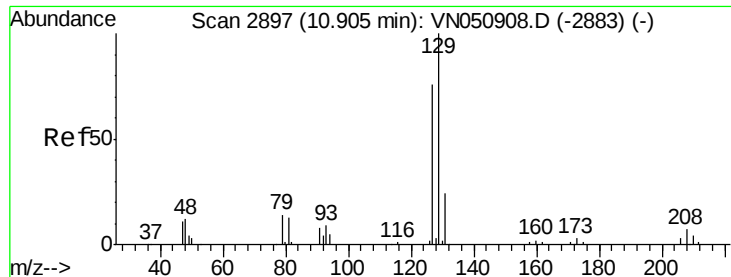
Tgt Ion: 76 Resp: 1870859

Ion Ratio Lower Upper

76 100

78 32.1 0.0 63.4





#53

Dibromochloromethane

Concen: 153.86 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:129 Resp: 1307736

Ion Ratio Lower Upper

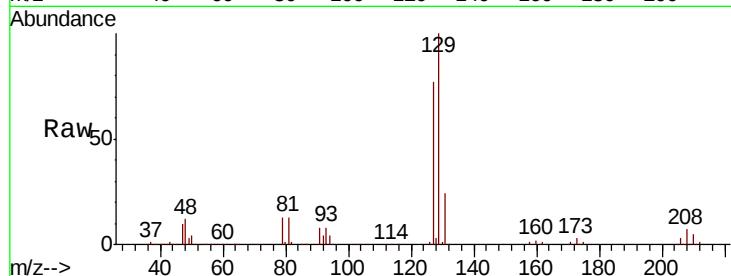
129 100

127 76.8 39.0 116.9

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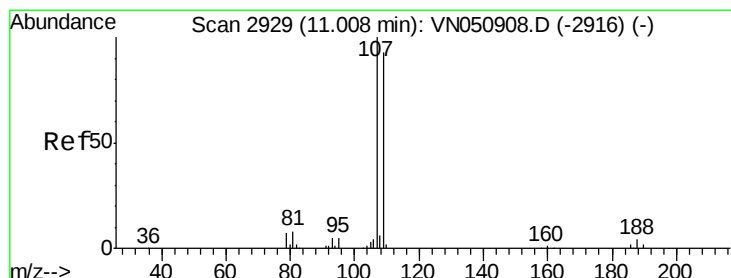
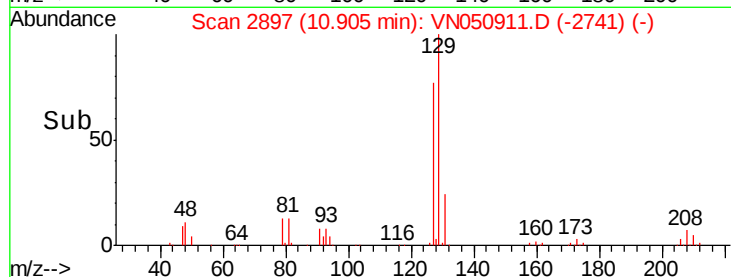
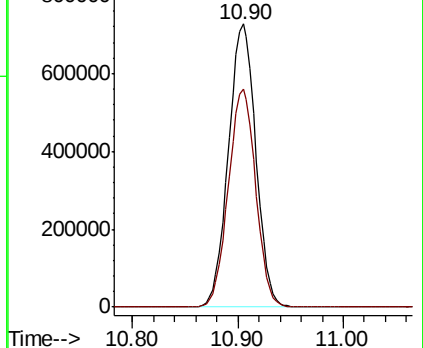
MMDadoda

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 153.54 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050911.D

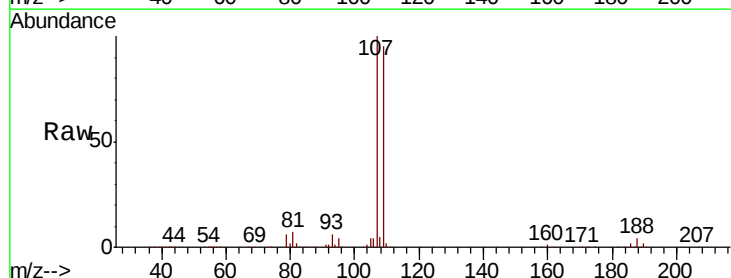
Acq: 28 Aug 2018 13:39

Tgt Ion:107 Resp: 1134833

Ion Ratio Lower Upper

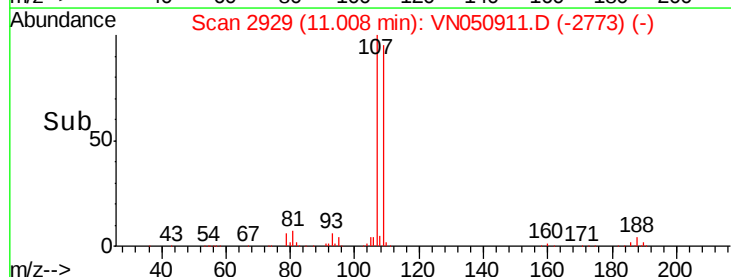
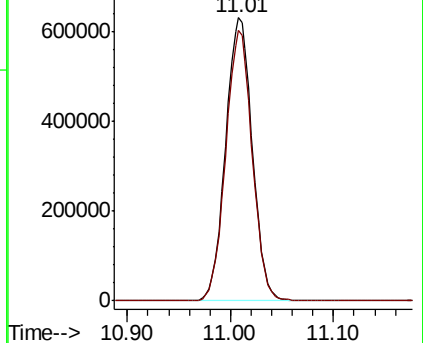
107 100

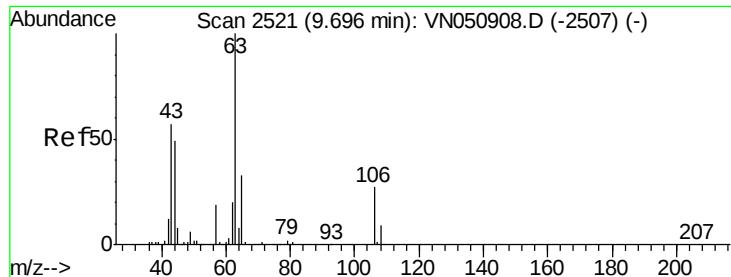
109 94.9 74.4 111.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





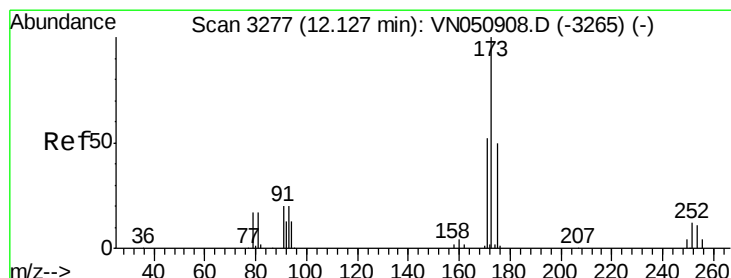
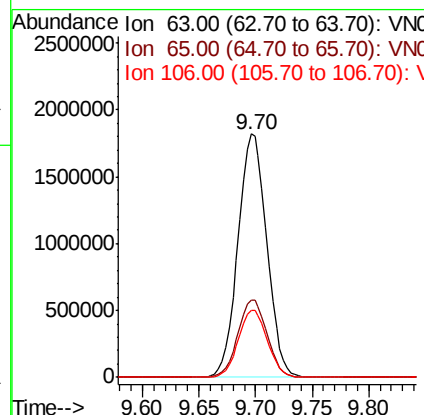
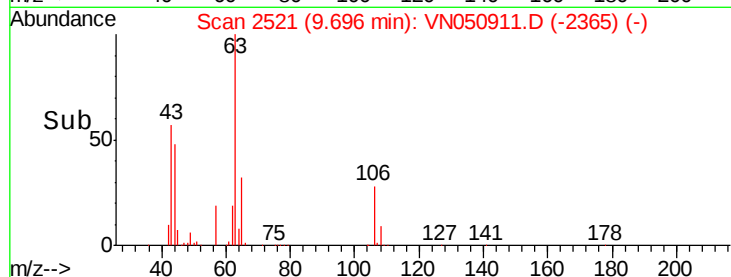
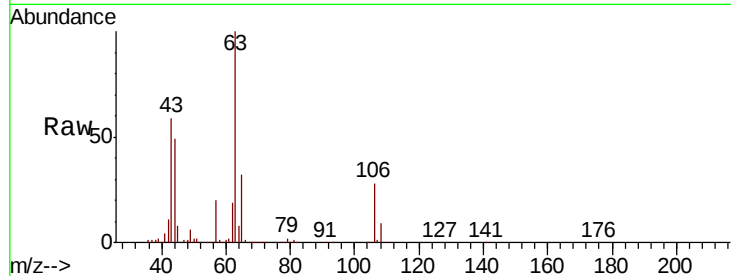
#55
2-Chloroethyl vinyl ether
Concen: 849.06 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 63 Resp: 3230962
Ion Ratio Lower Upper
63 100
65 32.1 25.4 38.2
106 27.7 22.0 33.0

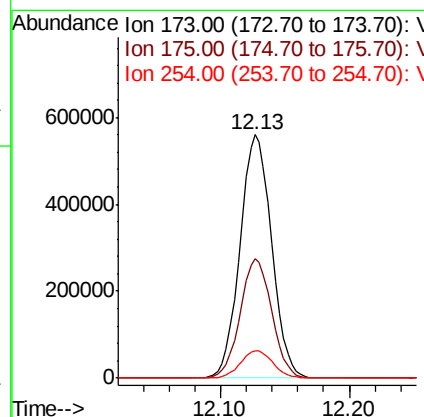
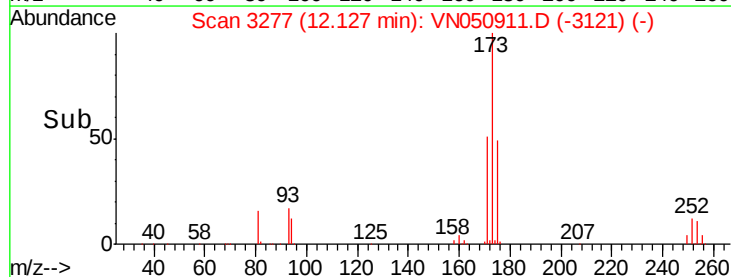
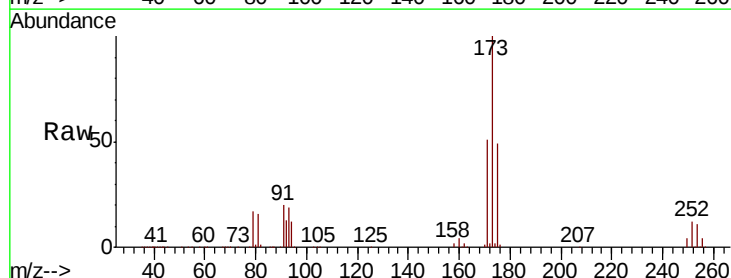
Manual Integrations
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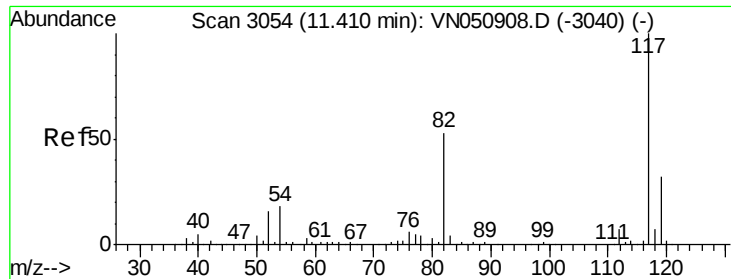
MMDadoda
8/29/2018 11:10:06 AM



#56
Bromoform
Concen: 157.95 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion: 173 Resp: 954841
Ion Ratio Lower Upper
173 100
175 48.9 39.2 58.8
254 11.6 9.0 13.6





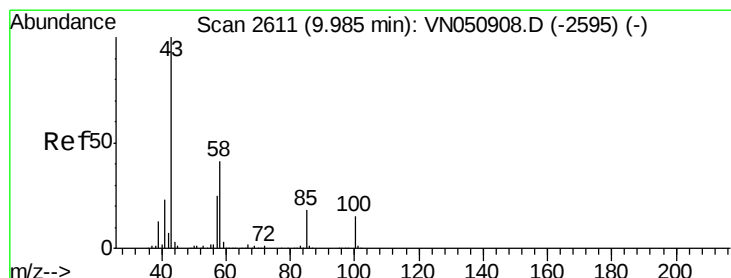
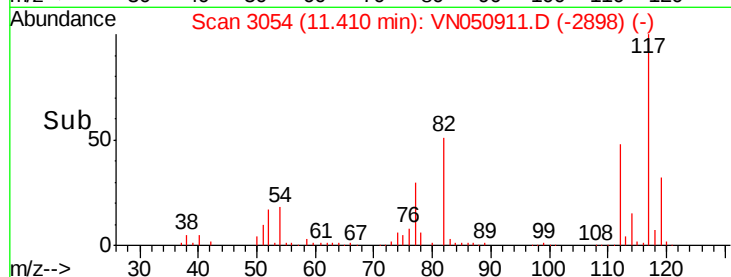
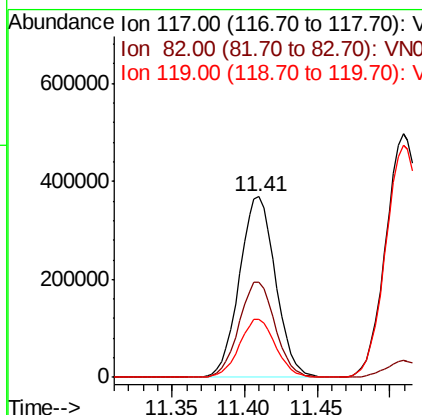
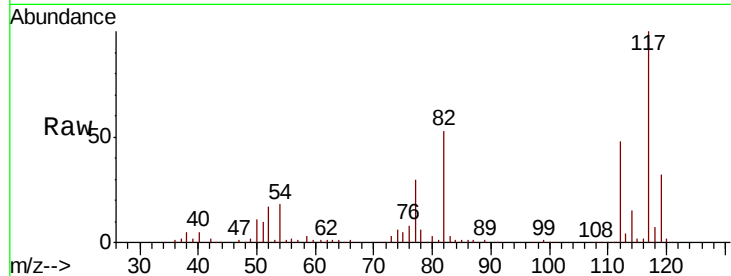
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.6	64.0
119	32.2	25.7	38.5

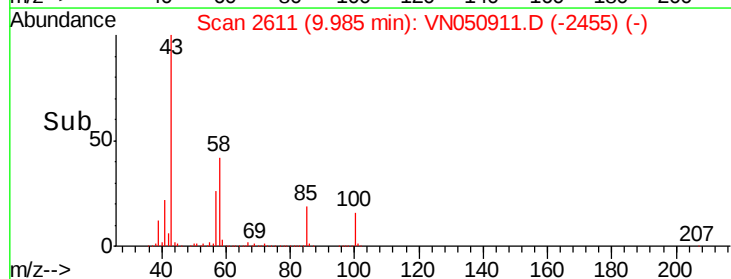
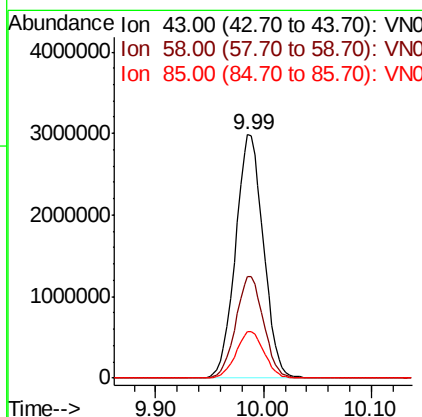
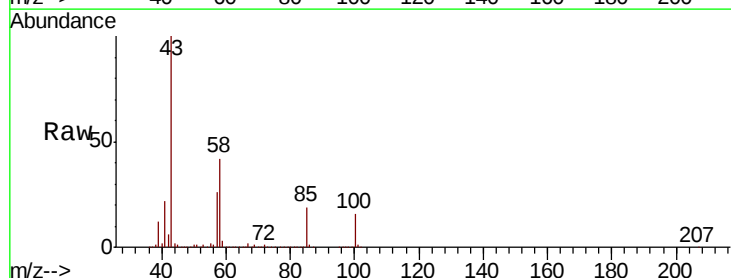
Manual Integrations
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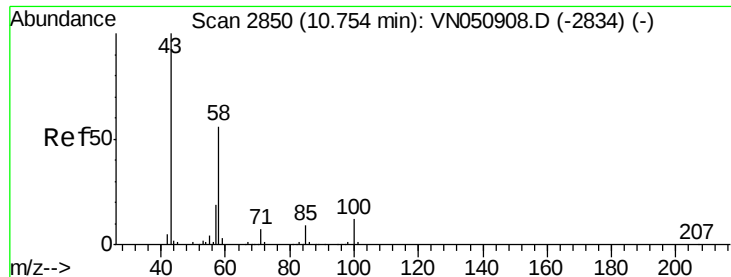
MMDadoda
8/29/2018 11:10:06 AM



#58
4-Methyl-2-Pentanone
Concen: 735.44 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.7	32.3	48.5
85	19.2	14.9	22.3





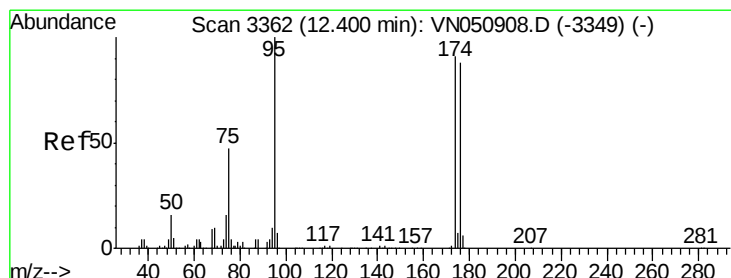
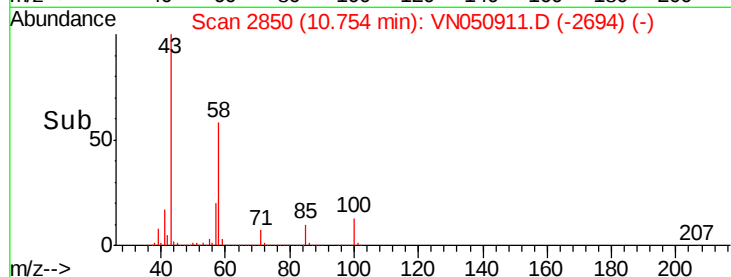
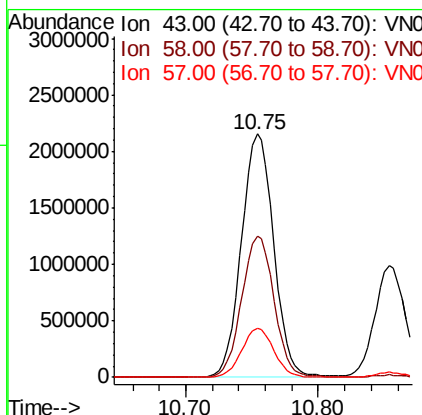
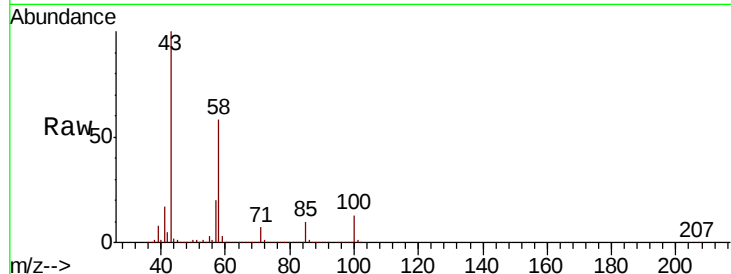
#59
2-Hexanone
Concen: 763.96 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.2	45.5	68.3
57	20.1	15.2	22.8

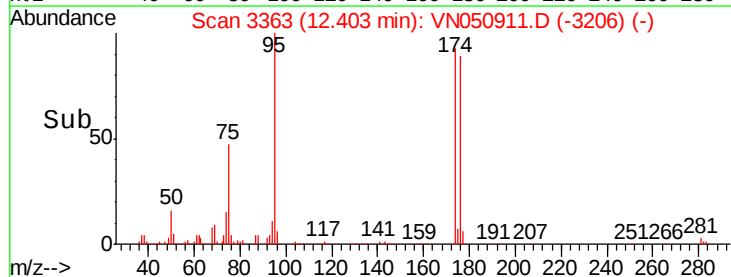
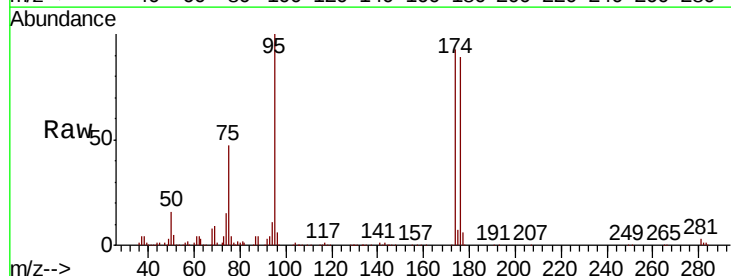
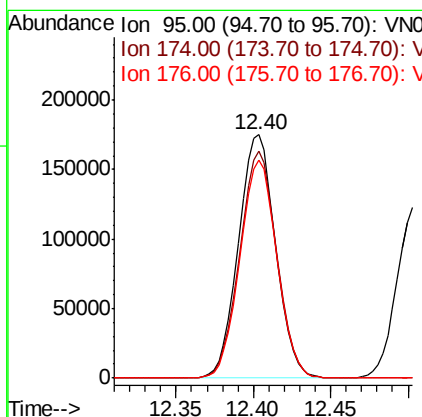
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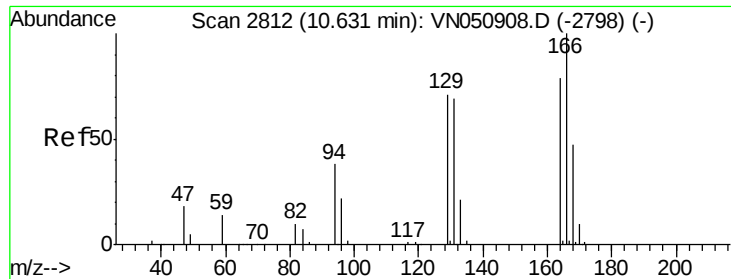
MMDadoda
8/29/2018 11:10:06 AM



#60
4-Bromofluorobenzene
Concen: 30.70 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.9	74.6	112.0
176	89.4	71.5	107.3





#61

Tetrachloroethene

Concen: 144.98 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 1154806

Ion Ratio Lower Upper

164 100

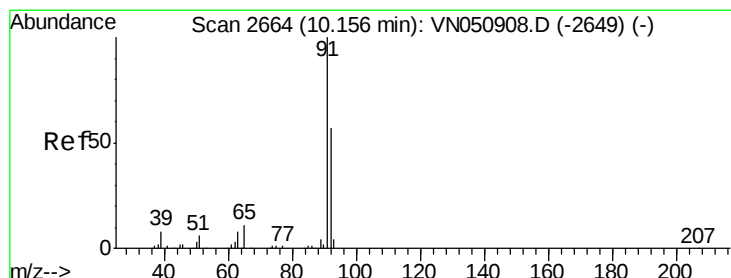
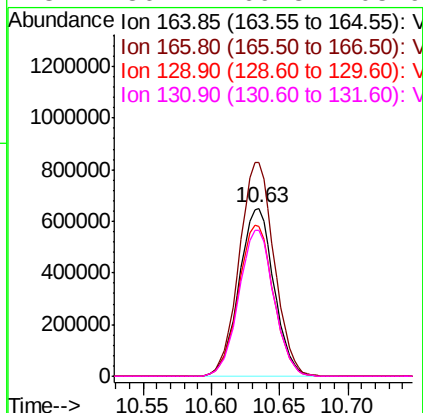
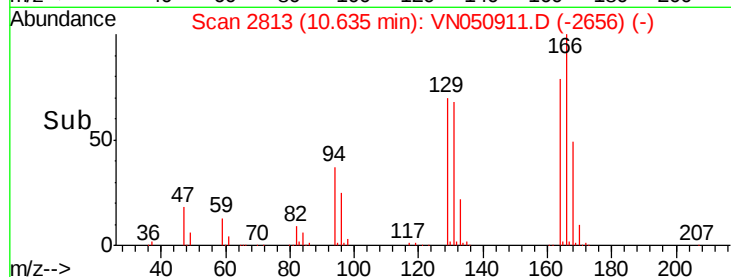
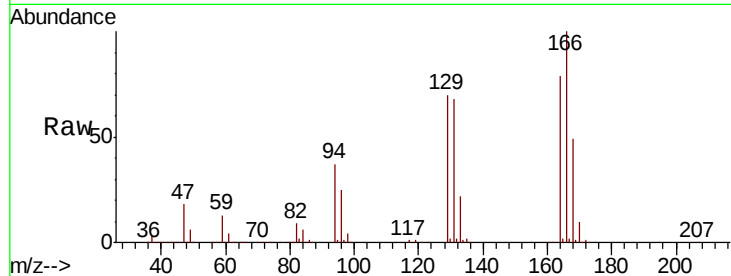
166 127.3 100.6 151.0

129 89.1 71.0 106.6

131 86.7 69.3 103.9

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#62

Toluene

Concen: 147.27 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN050911.D

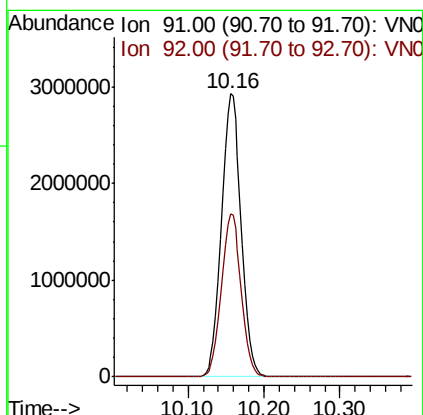
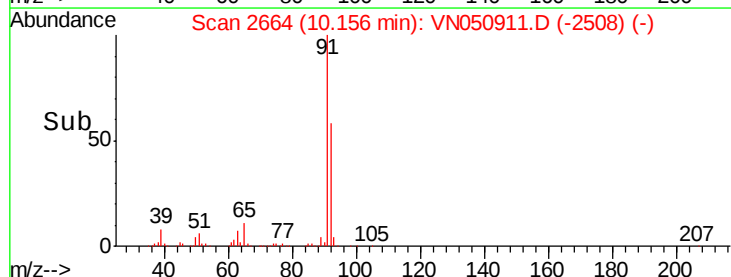
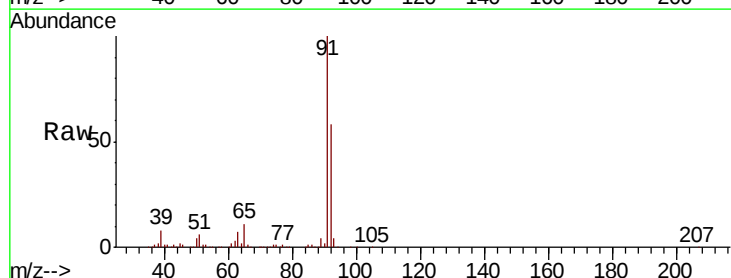
Acq: 28 Aug 2018 13:39

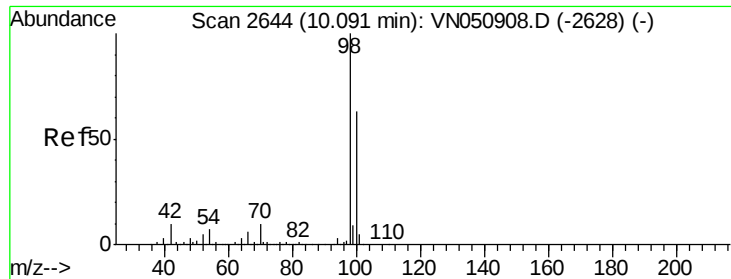
Tgt Ion: 91 Resp: 5251747

Ion Ratio Lower Upper

91 100

92 57.6 45.8 68.8





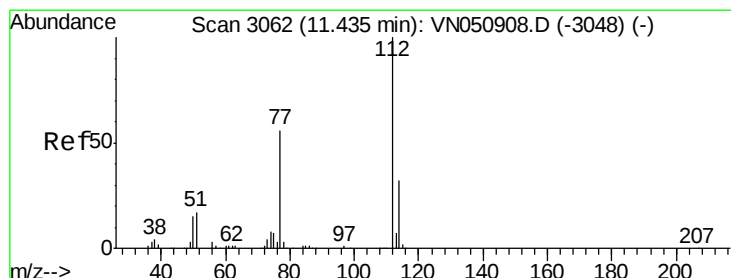
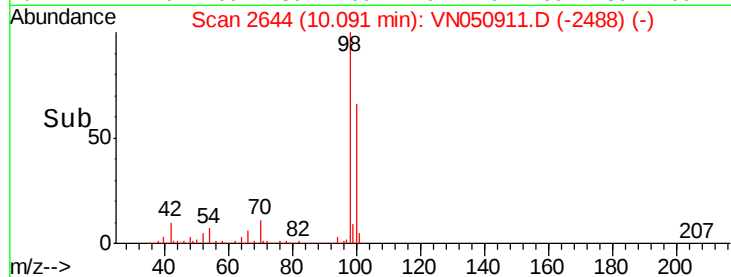
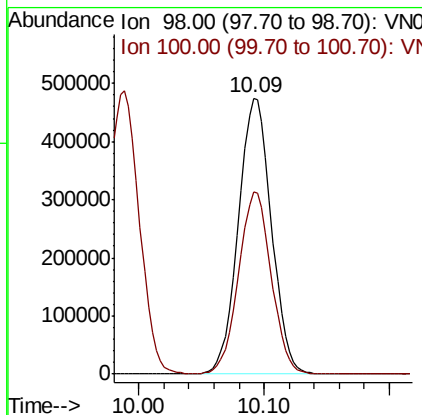
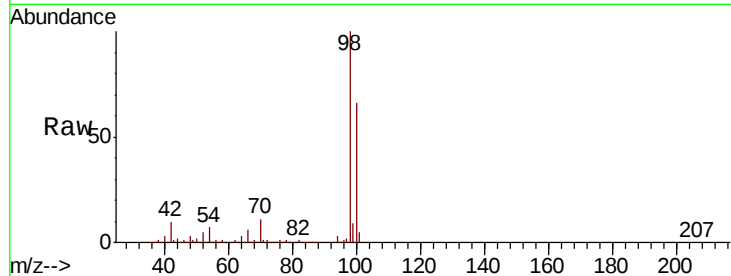
#63
Toluene-d8
Concen: 29.17 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 98 Resp: 869497
Ion Ratio Lower Upper
98 100
100 65.2 50.6 75.8

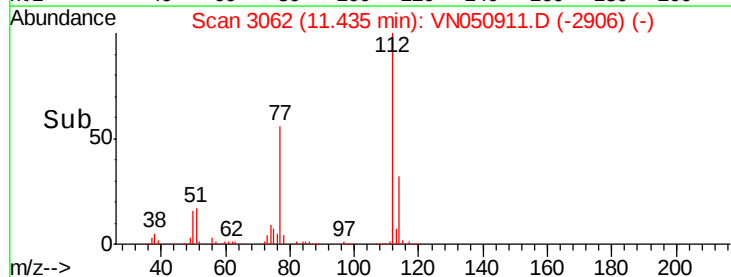
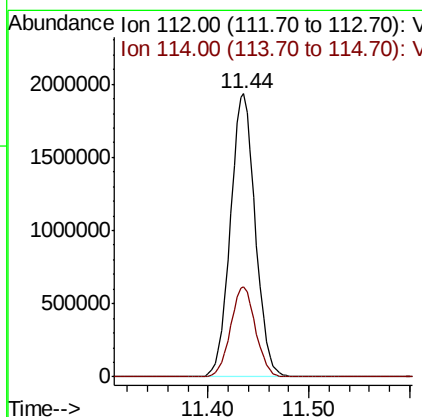
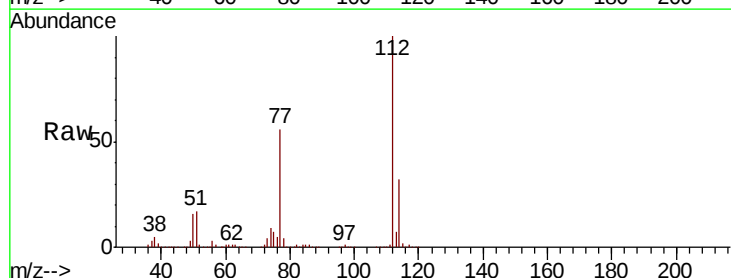
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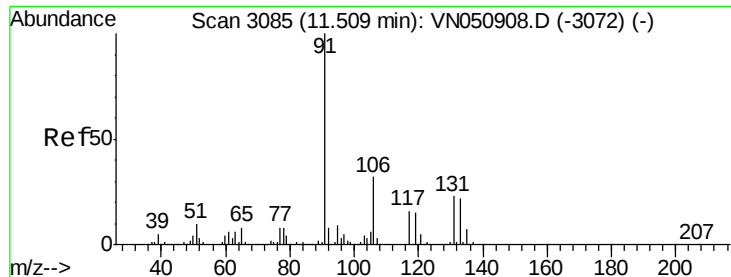
MMDadoda
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#64
Chlorobenzene
Concen: 150.30 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion: 112 Resp: 3321838
Ion Ratio Lower Upper
112 100
114 32.1 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 150.10 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:131 Resp: 1252544

Ion Ratio Lower Upper

131 100

133 95.8 0.0 189.4

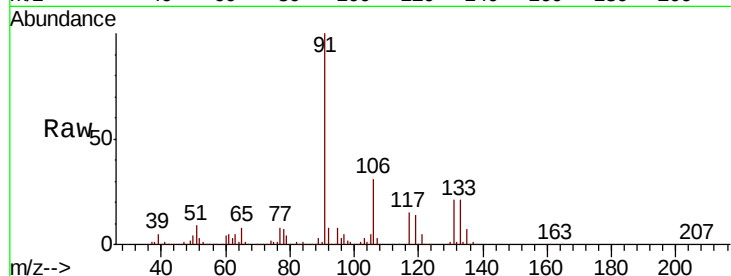
119 66.0 0.0 132.2

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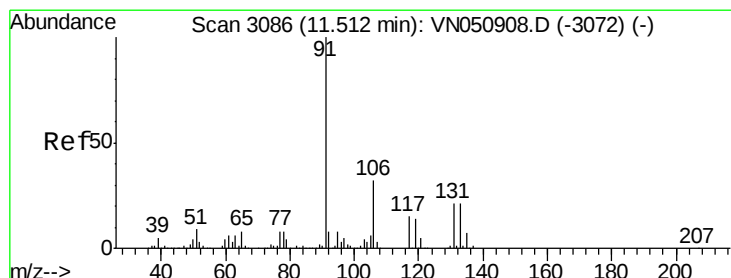
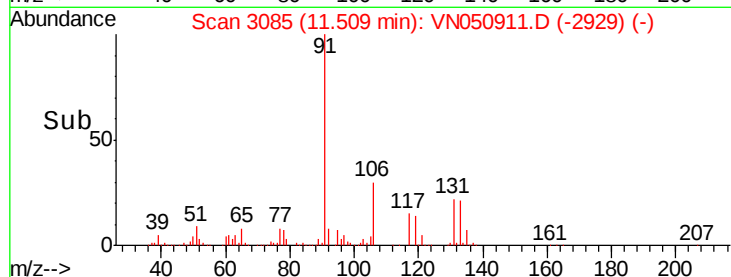
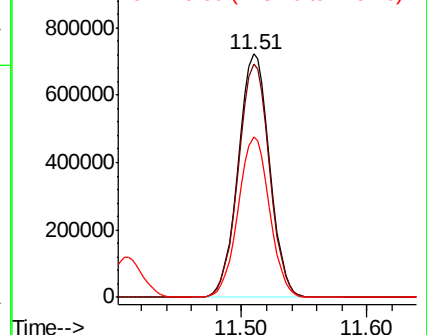
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Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 155.66 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050911.D

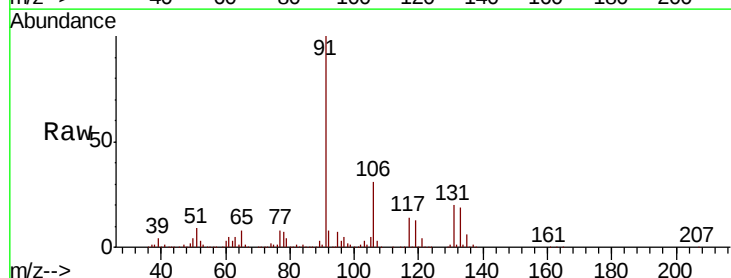
Acq: 28 Aug 2018 13:39

Tgt Ion: 91 Resp: 5749871

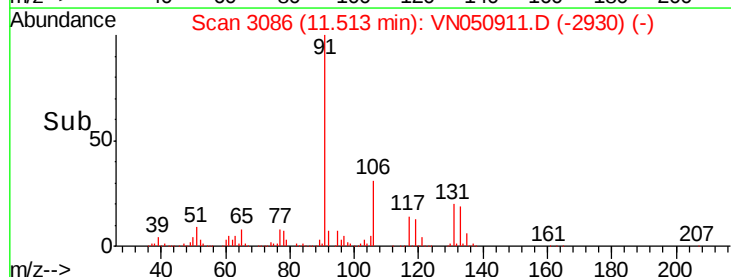
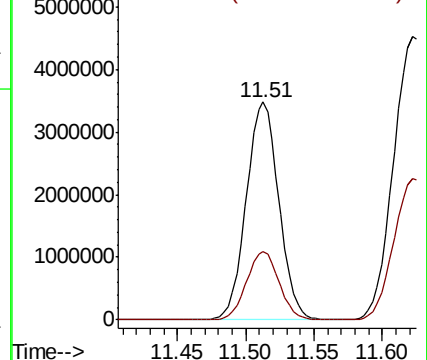
Ion Ratio Lower Upper

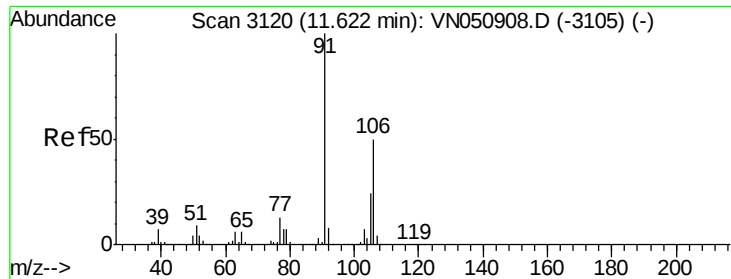
91 100

106 31.2 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xvlenes

Concen: 307.96 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:106 Resp: 4376875

Ion Ratio Lower Upper

106 100

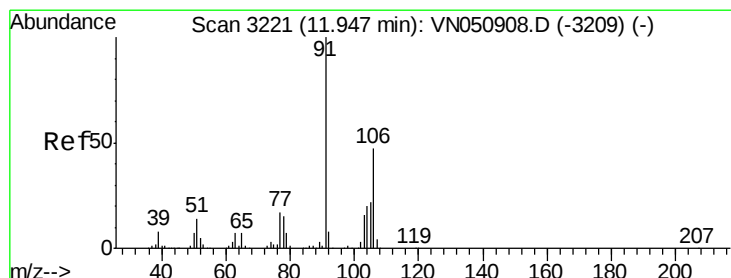
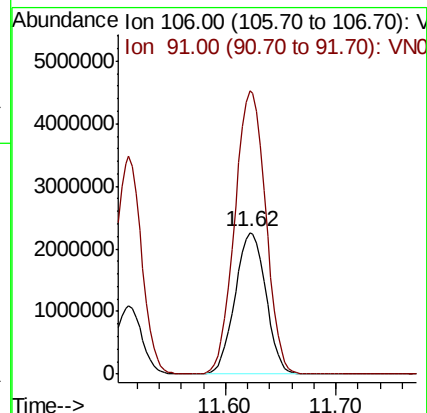
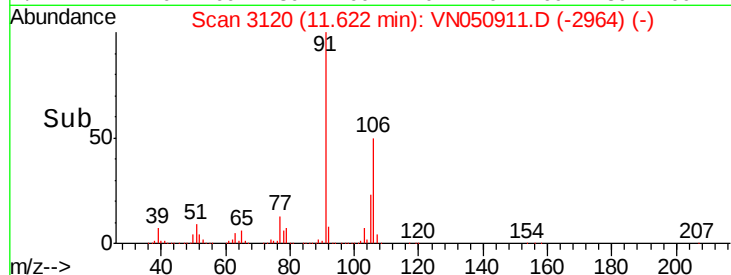
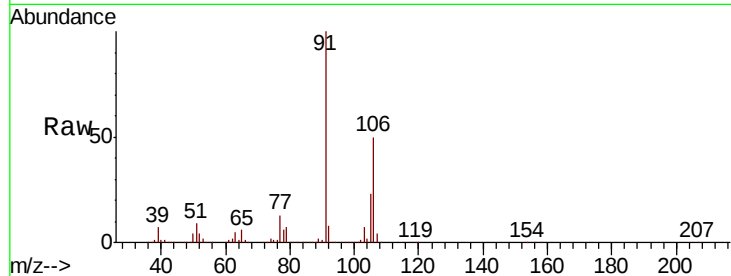
91 201.2 160.6 241.0

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#68

o-Xylene

Concen: 156.11 ug/l

RT: 11.95 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN050911.D

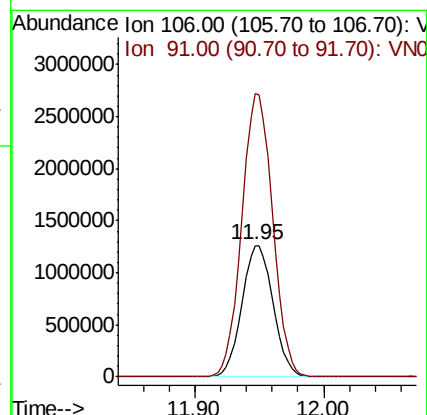
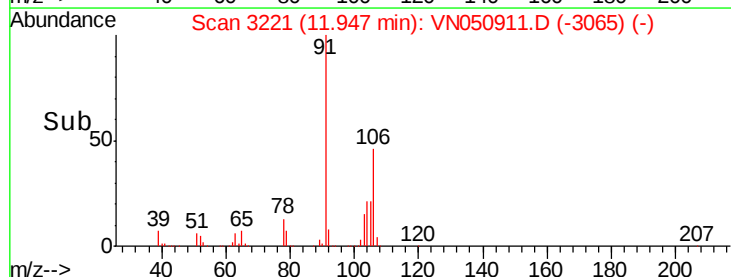
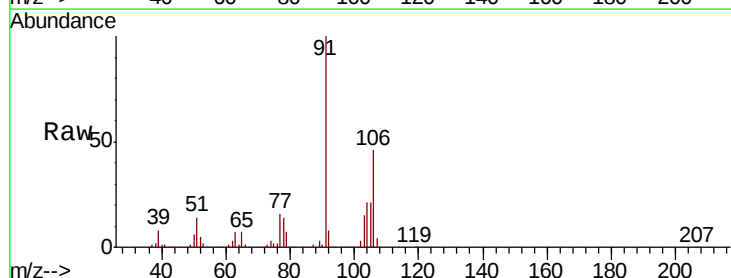
Acq: 28 Aug 2018 13:39

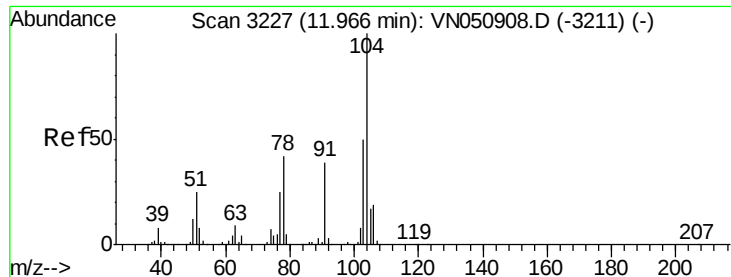
Tgt Ion:106 Resp: 2120002

Ion Ratio Lower Upper

106 100

91 213.7 106.4 319.2





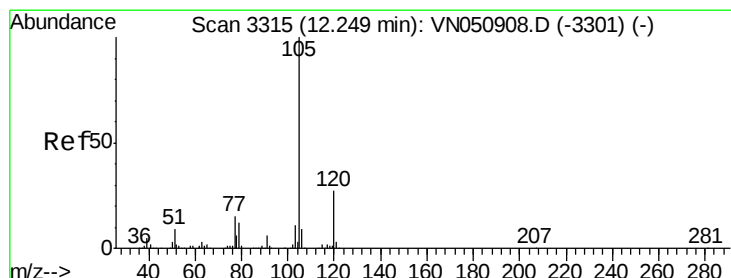
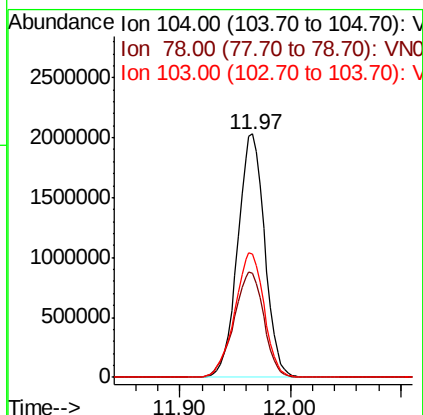
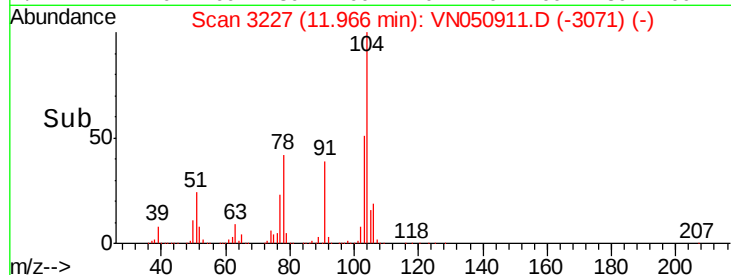
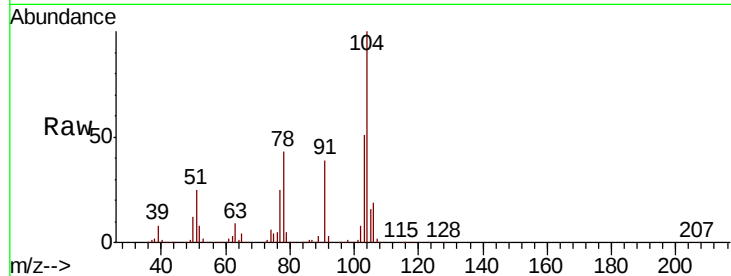
#69
Stvrene
Concen: 159.00 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.6	58.0
103	55.7	45.4	68.2

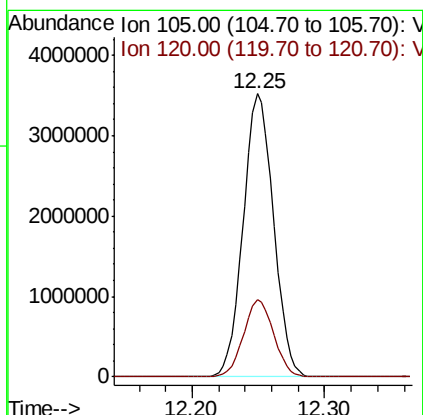
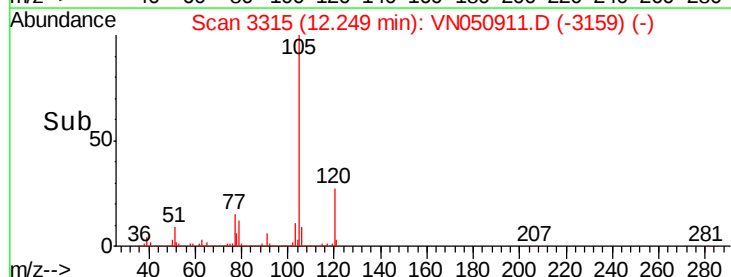
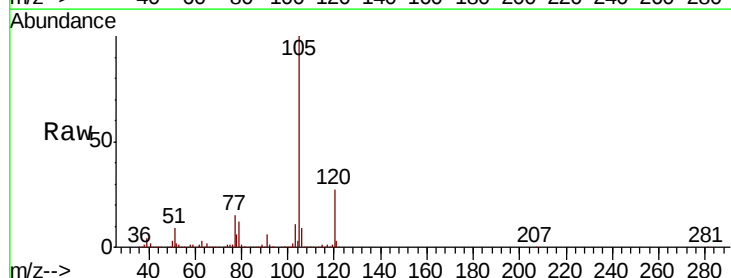
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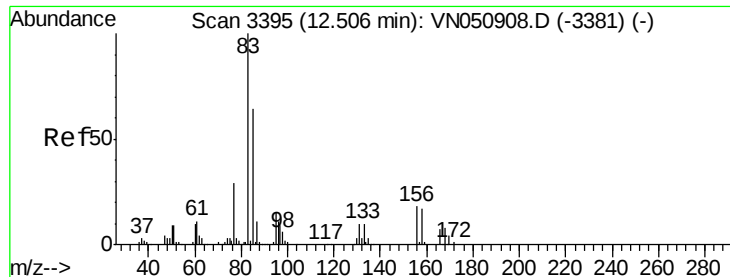
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#70
Isopropylbenzene
Concen: 155.01 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 145.62 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 83 Resp: 1422729

Ion Ratio Lower Upper

83 100

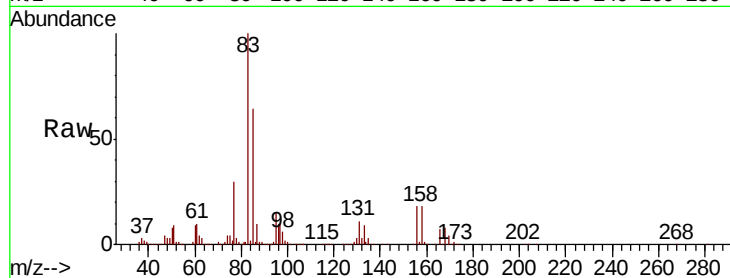
131 10.9 5.3 15.9

85 64.5 32.3 96.9

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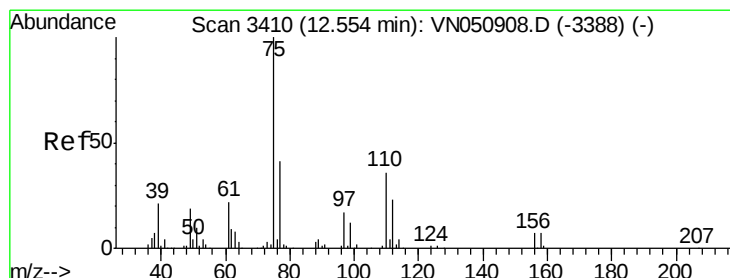
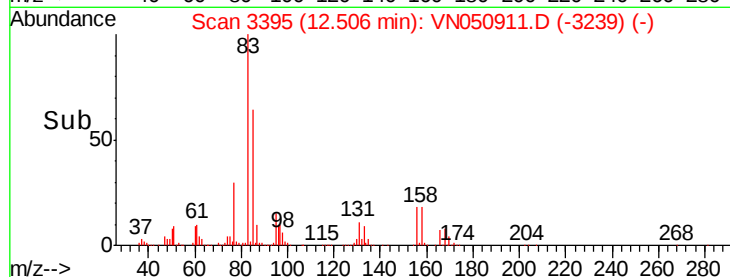
Abundance Ion 83.00 (82.70 to 83.70): VN050911.D (-3239) (-)

Ion 131.00 (130.70 to 131.70): VN050911.D (-3239) (-)

Ion 85.00 (84.70 to 85.70): VN050911.D (-3239) (-)

12.51

Time-->



#72

1,2,3-Trichloropropane

Concen: 152.20 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN050911.D

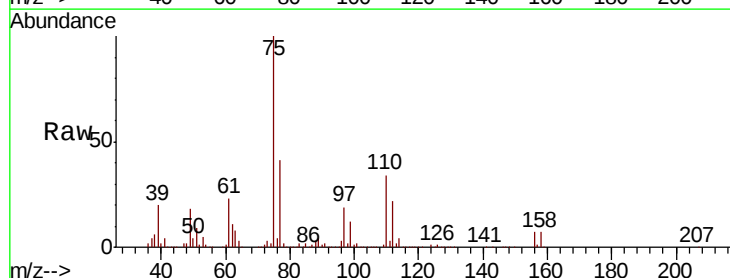
Acq: 28 Aug 2018 13:39

Tgt Ion: 75 Resp: 1278930

Ion Ratio Lower Upper

75 100

77 203.1 0.0 301.6

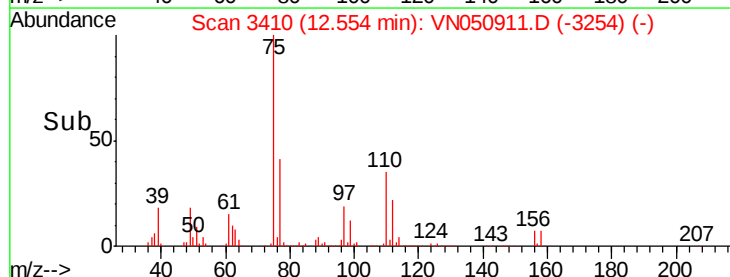


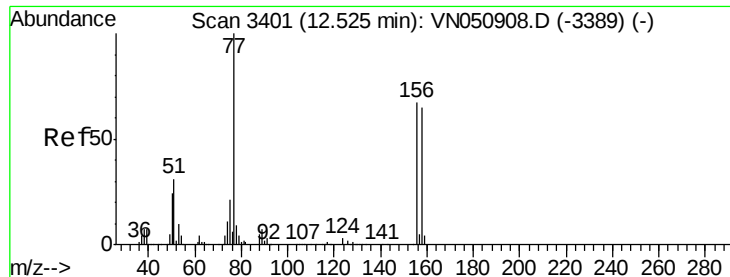
Abundance Ion 75.00 (74.70 to 75.70): VN050911.D (-3254) (-)

Ion 77.00 (76.70 to 77.70): VN050911.D (-3254) (-)

12.55

Time-->





#73

Bromobenzene

Concen: 153.43 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:156 Resp: 1456674

Ion Ratio Lower Upper

156 100

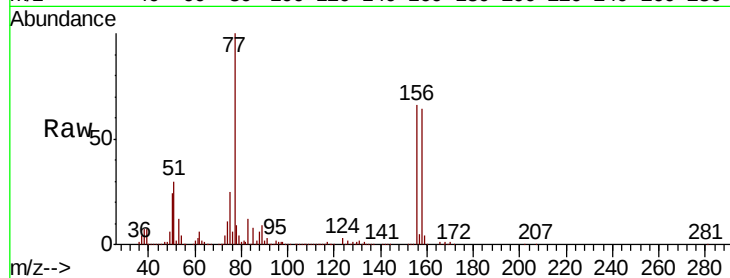
77 178.3 0.0 359.4

158 97.8 0.0 194.6

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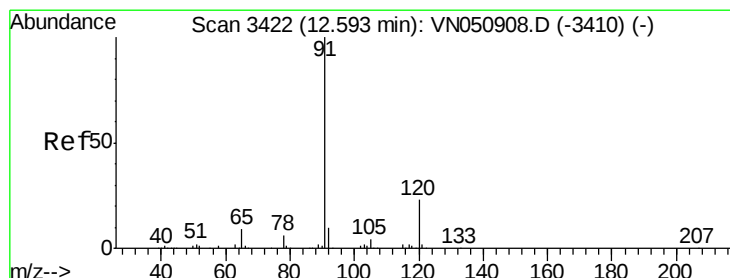
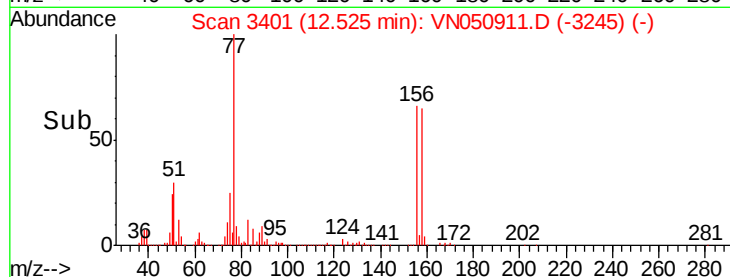
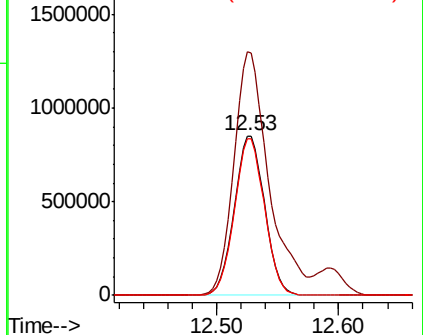
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 156.52 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050911.D

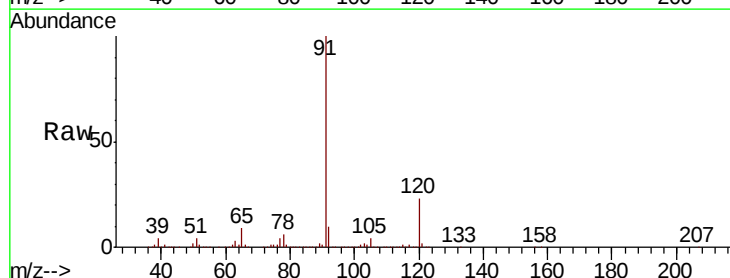
Acq: 28 Aug 2018 13:39

Tgt Ion: 91 Resp: 6385475

Ion Ratio Lower Upper

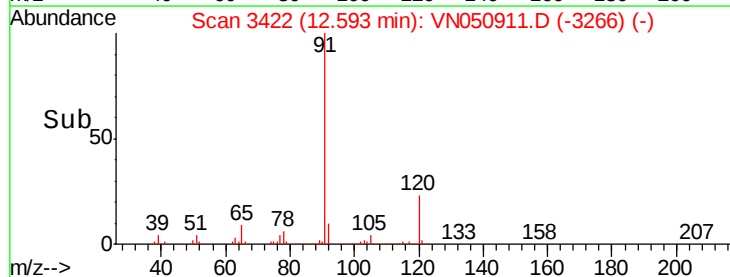
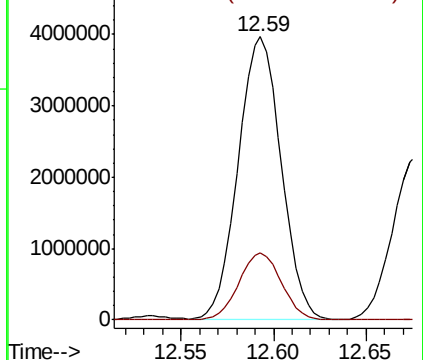
91 100

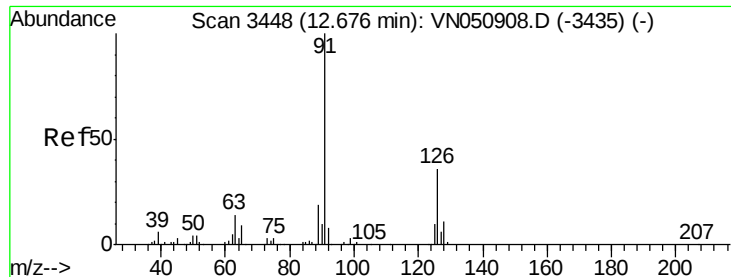
120 23.4 0.0 46.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 151.37 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 91 Resp: 3751841

Ion Ratio Lower Upper

91 100

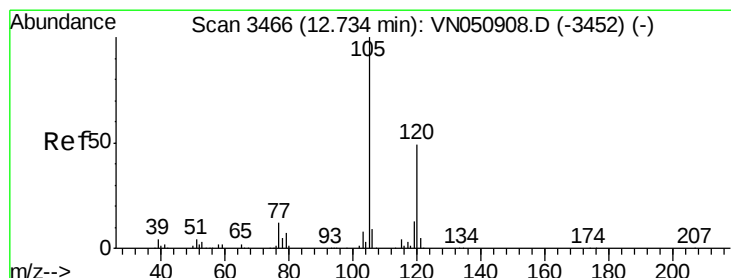
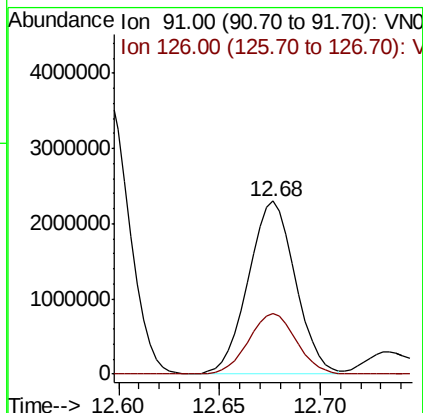
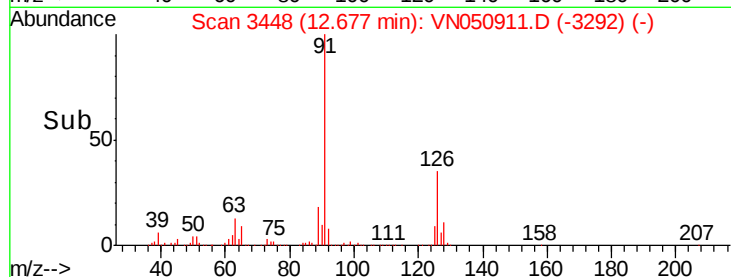
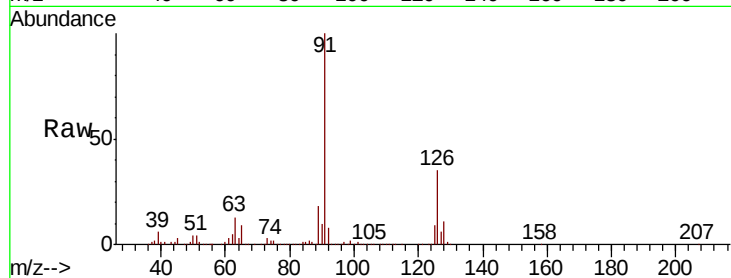
126 35.6 0.0 71.8

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#76

1,3,5-Trimethylbenzene

Concen: 153.85 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050911.D

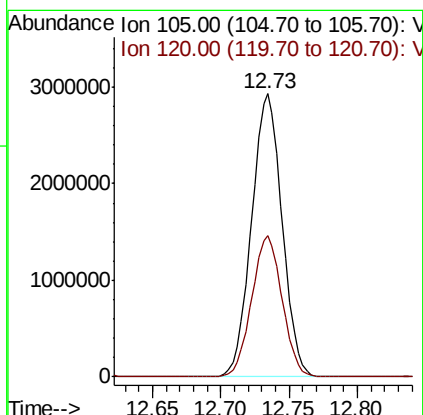
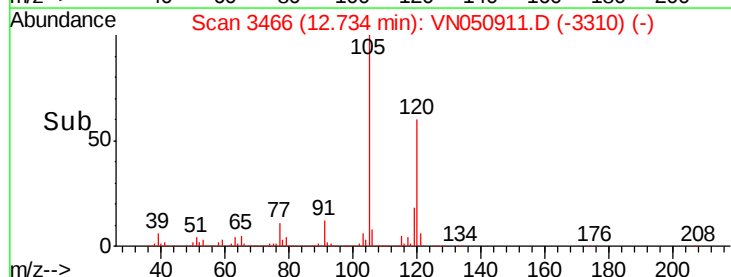
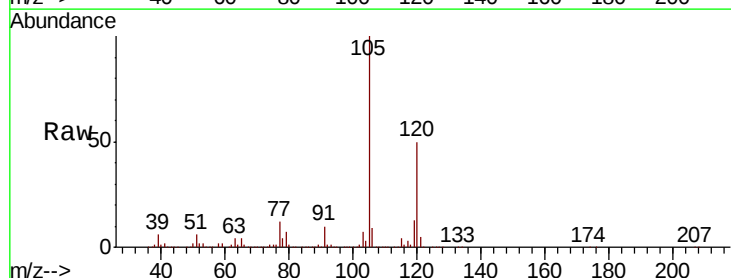
Acq: 28 Aug 2018 13:39

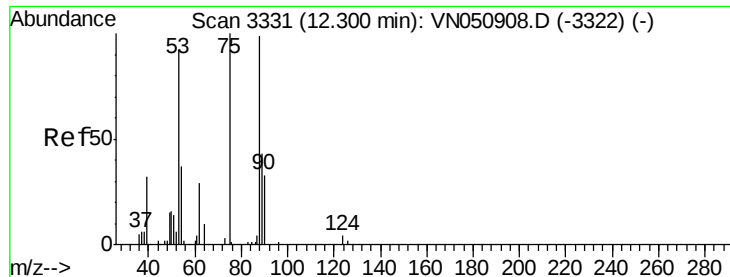
Tgt Ion: 105 Resp: 4537068

Ion Ratio Lower Upper

105 100

120 49.7 0.0 99.6





#77

t-1,4-Dichloro-2-butene

Concen: 172.63 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

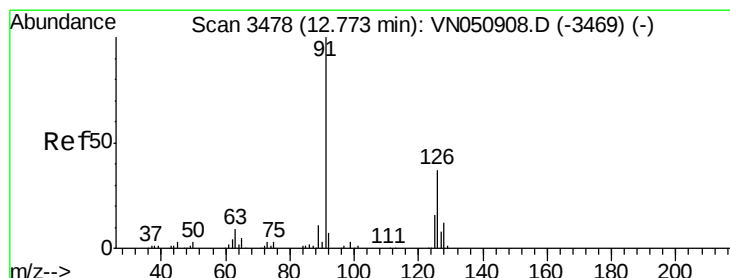
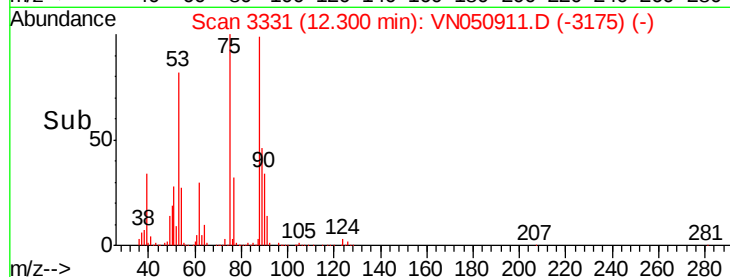
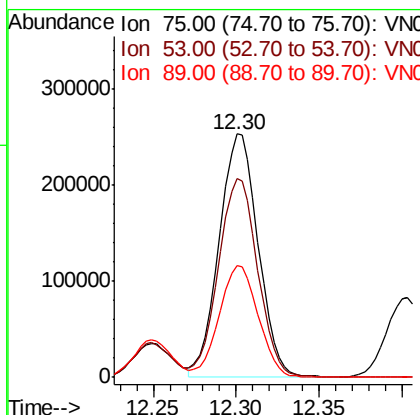
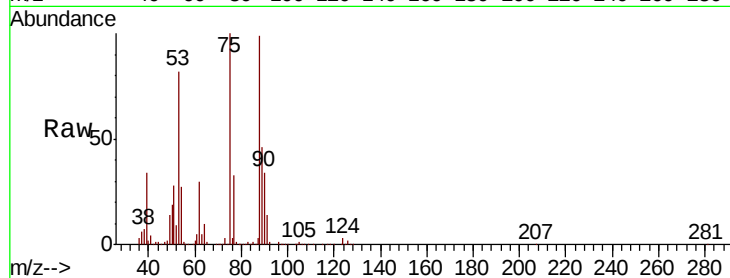
ClientSampleId :

VSTDIC150

Tot Ion:	75	Resp:	414554
Ion	Ratio	Lower	Upper
75	100		
53	81.8	45.5	136.4
89	46.1	21.9	65.8

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#78

4-Chlorotoluene

Concen: 156.90 ug/l

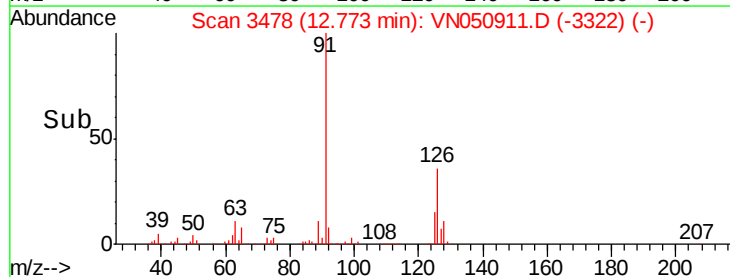
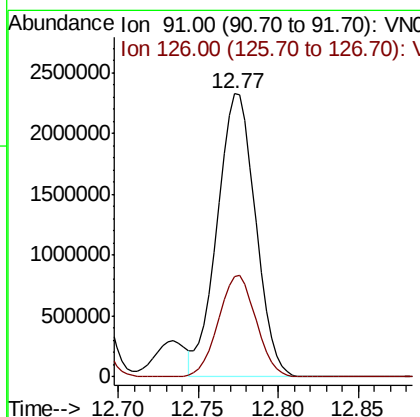
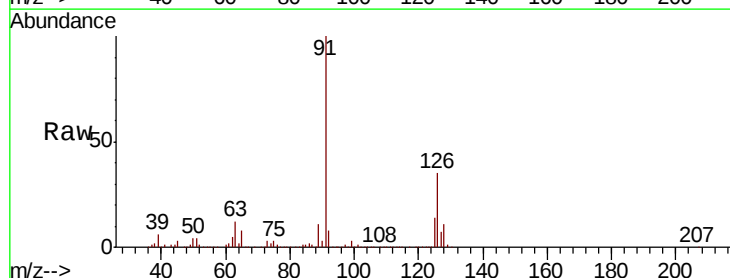
RT: 12.77 min Scan# 3478

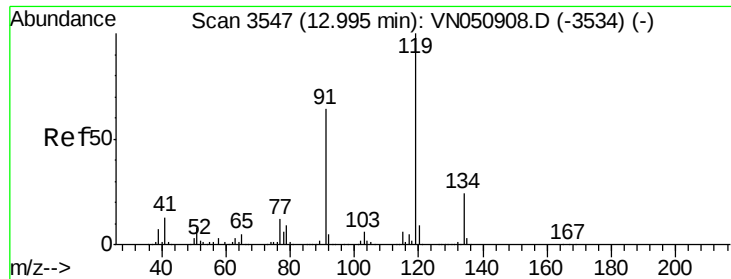
Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Tgt Ion:	91	Resp:	3829025
Ion	Ratio	Lower	Upper
91	100		
126	35.1	0.0	69.8





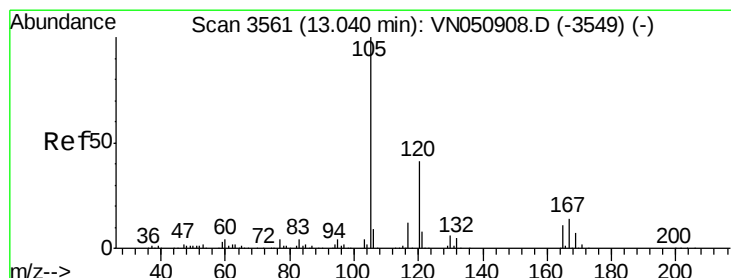
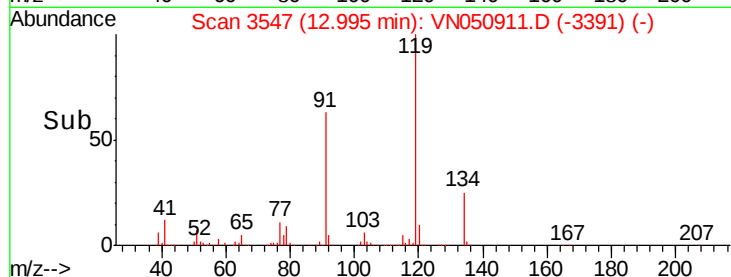
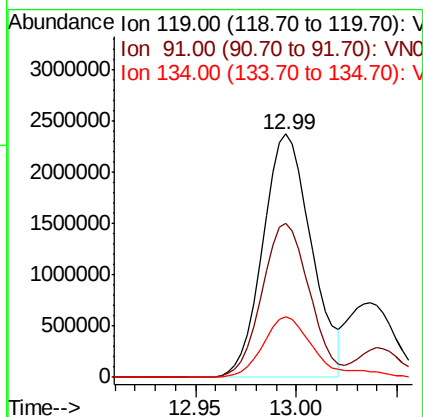
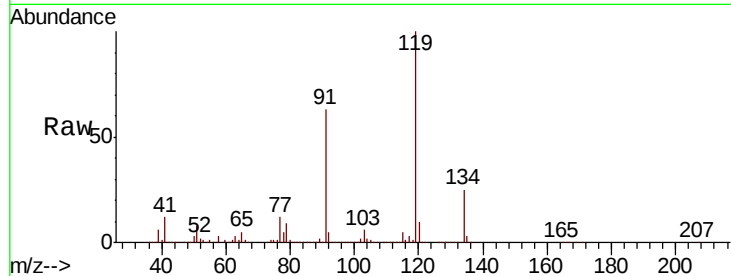
#79
tert-butylbenzene
Concen: 155.15 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:119 Resp: 3973371
Ion Ratio Lower Upper
119 100
91 62.0 0.0 125.6
134 24.7 0.0 48.4

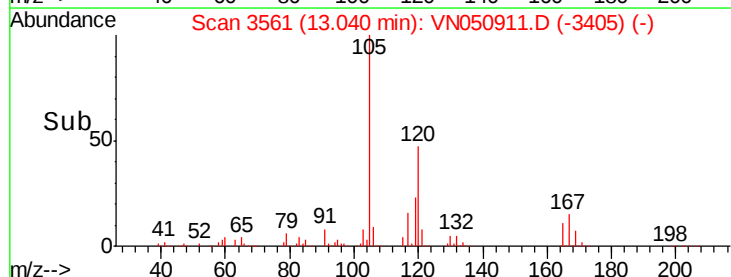
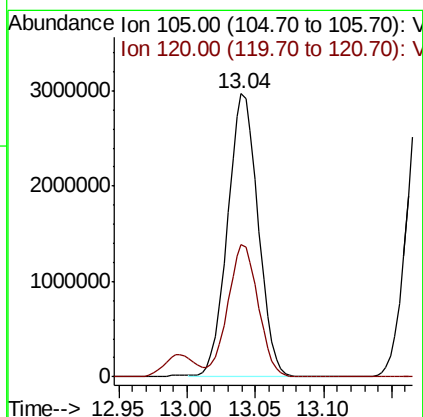
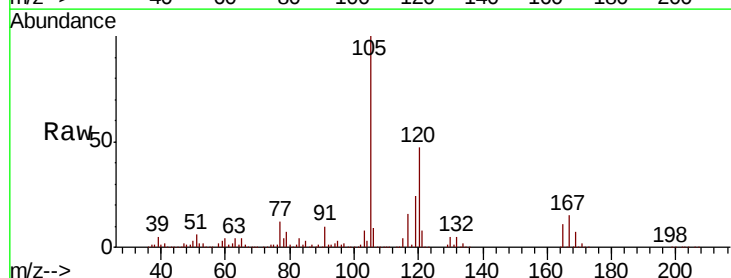
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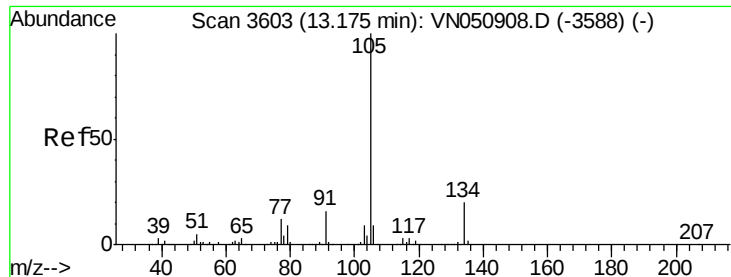
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 156.96 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion:105 Resp: 4614828
Ion Ratio Lower Upper
105 100
120 46.4 0.0 93.6





#81

sec-Butylbenzene

Concen: 155.75 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 5218885

Ion Ratio Lower Upper

105 100

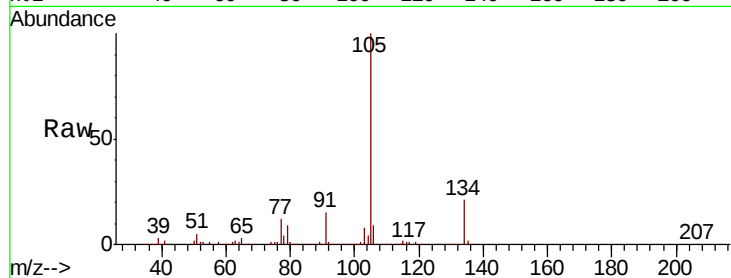
134 20.6 0.0 40.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

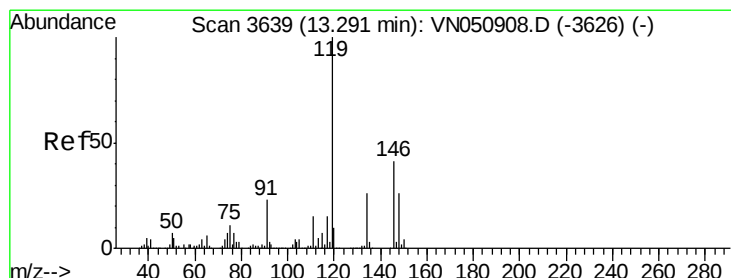
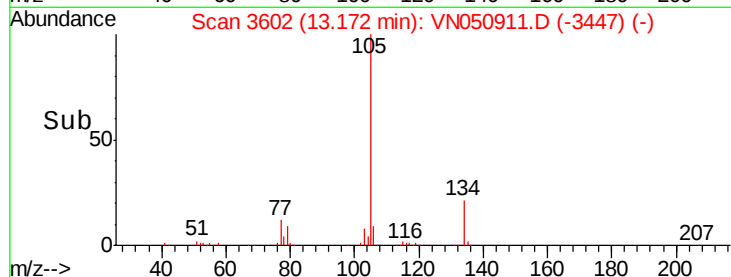
3000000

2000000

1000000

0

Time-->



#82

p-Isopropyltoluene

Concen: 159.74 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

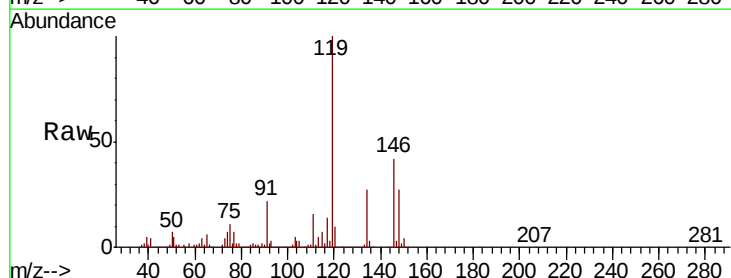
Tgt Ion:119 Resp: 4620356

Ion Ratio Lower Upper

119 100

134 27.0 0.0 53.2

91 22.2 0.0 46.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

4000000

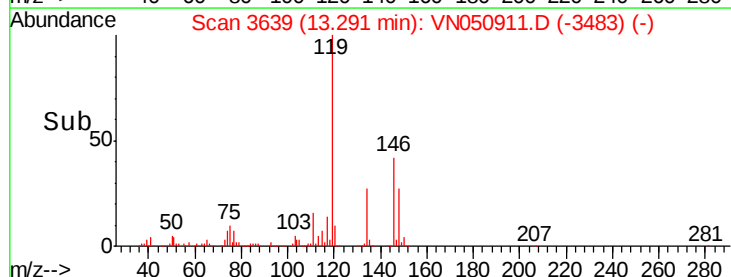
3000000

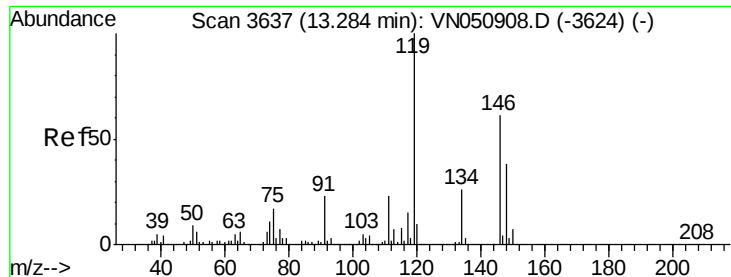
2000000

1000000

0

Time-->





#83

1,3-Dichlorobenzene

Concen: 158.58 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:146 Resp: 2545517

Ion Ratio Lower Upper

146 100

111 38.0 18.6 55.6

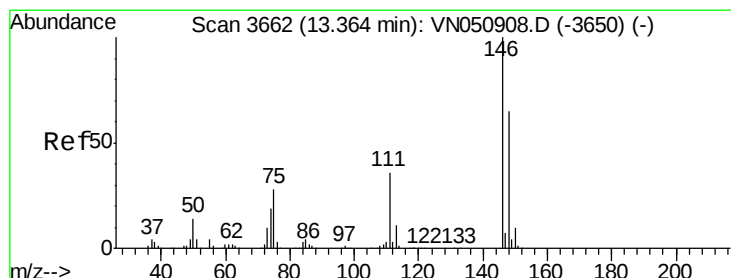
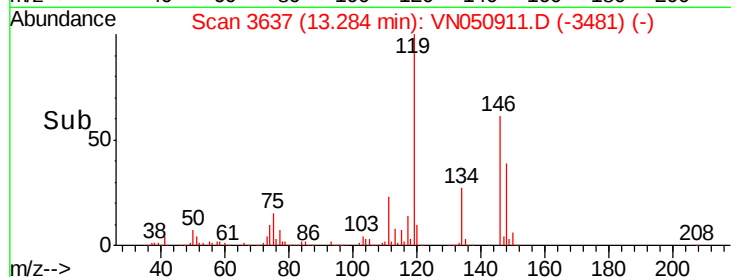
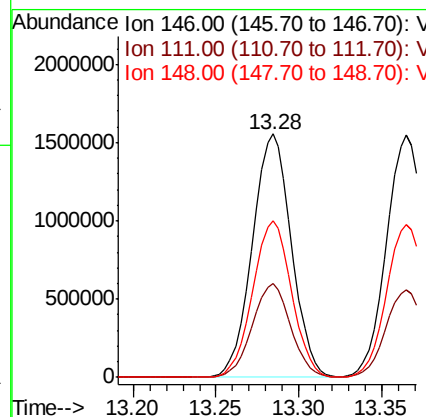
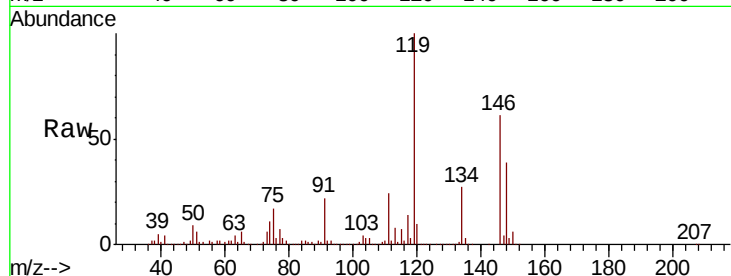
148 64.0 31.8 95.3

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#84

1,4-Dichlorobenzene

Concen: 164.48 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VN050911.D

Acq: 28 Aug 2018 13:39

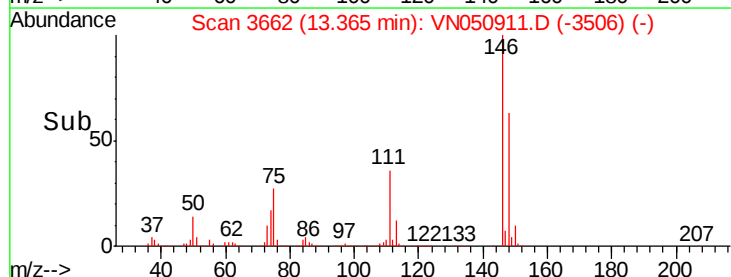
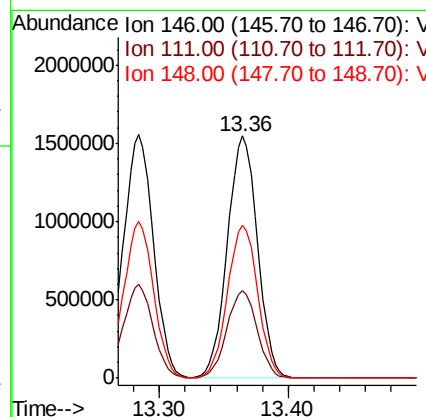
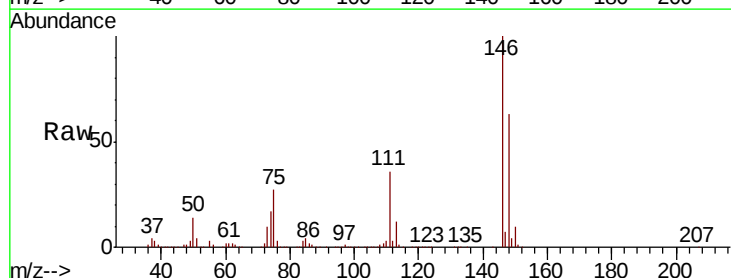
Tgt Ion:146 Resp: 2501677

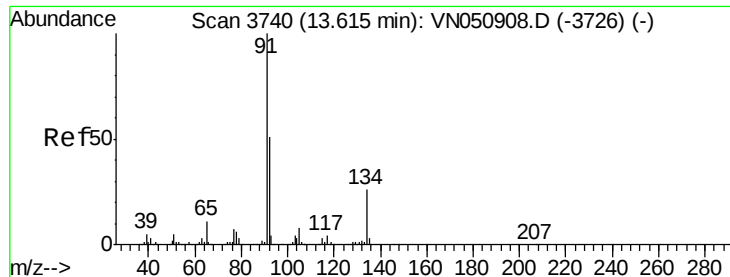
Ion Ratio Lower Upper

146 100

111 36.4 17.7 53.1

148 63.6 31.6 94.8





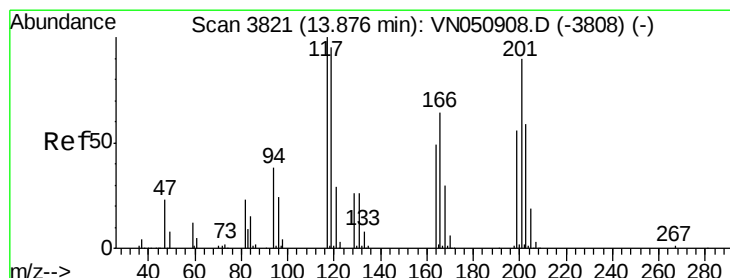
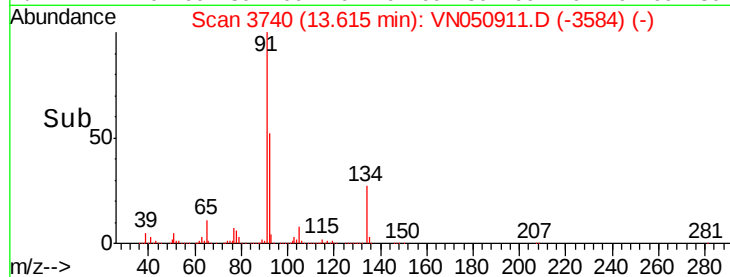
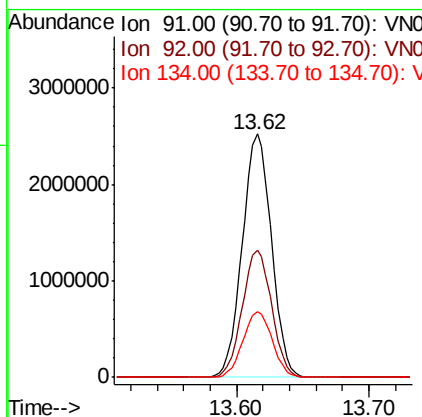
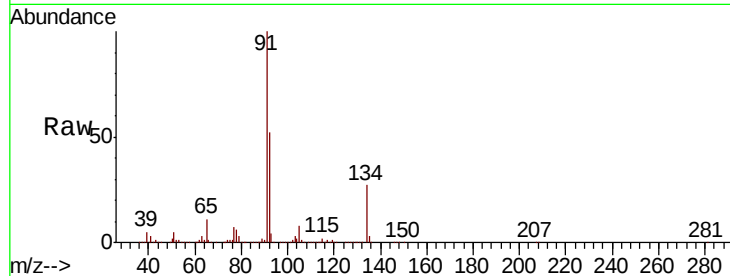
#85
n-Butylbenzene
Concen: 174.29 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	0.0	101.8
134	27.1	0.0	52.2

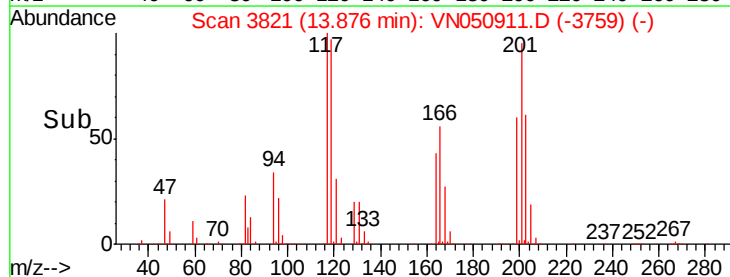
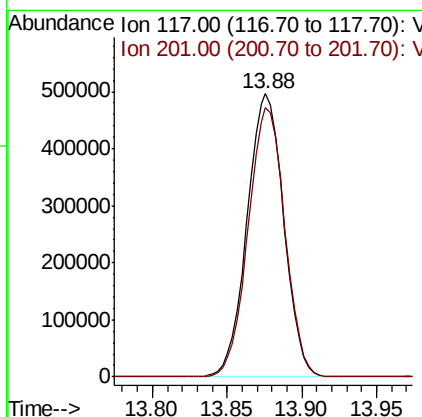
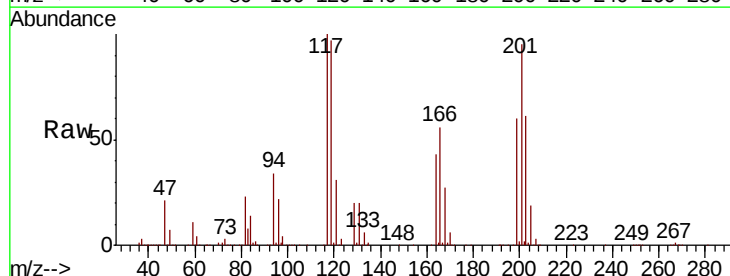
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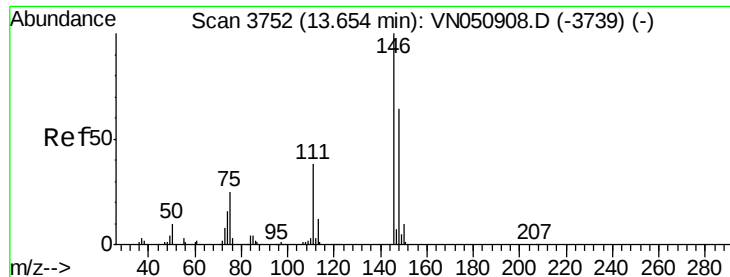
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#86
Hexachloroethane
Concen: 151.93 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.2	45.8	137.4





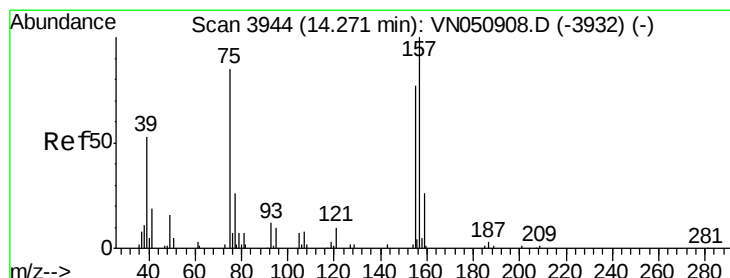
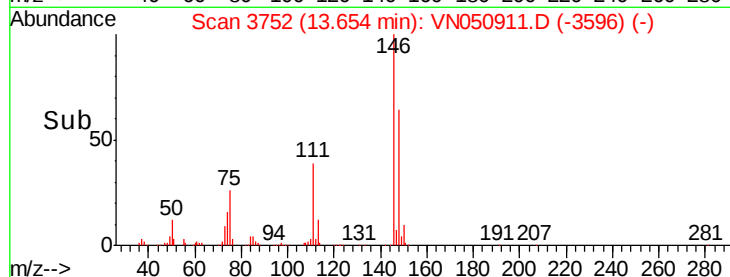
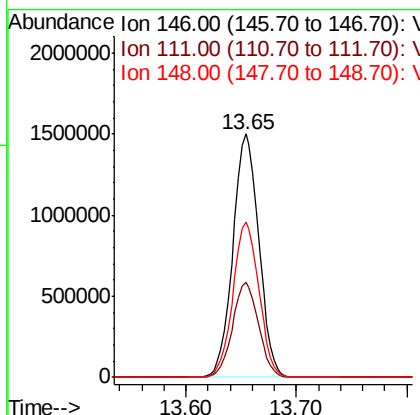
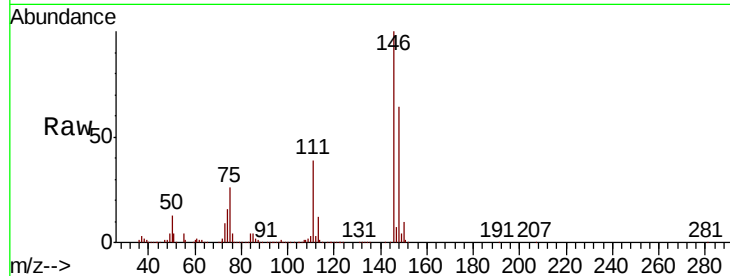
#87
 1,2-Dichlorobenzene
 Concen: 154.59 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.1	57.1
148	63.9	31.9	95.9

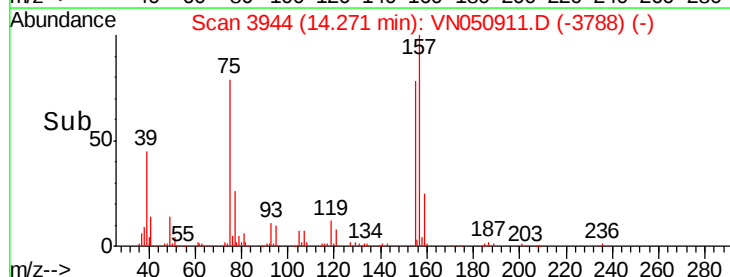
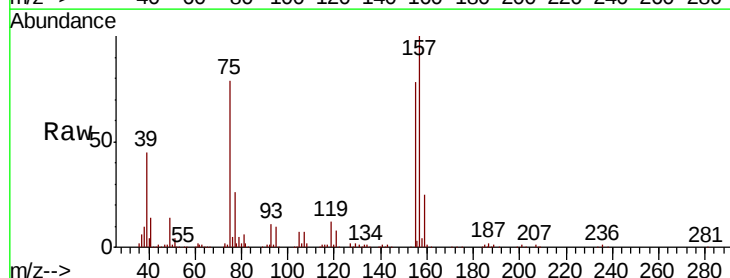
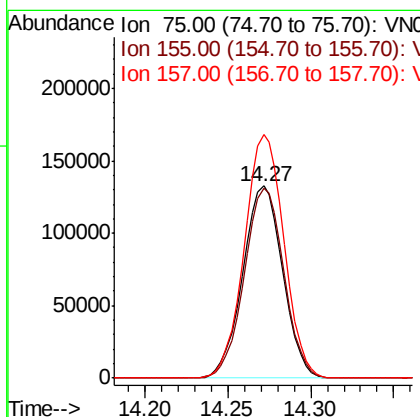
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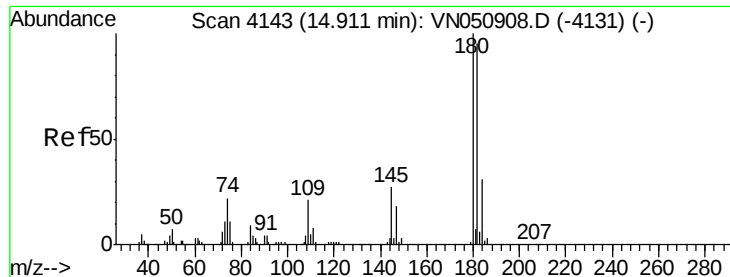
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 162.76 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.0	71.8	107.6
157	125.6	91.1	136.7





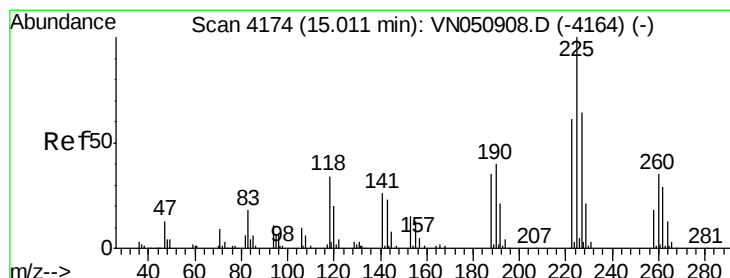
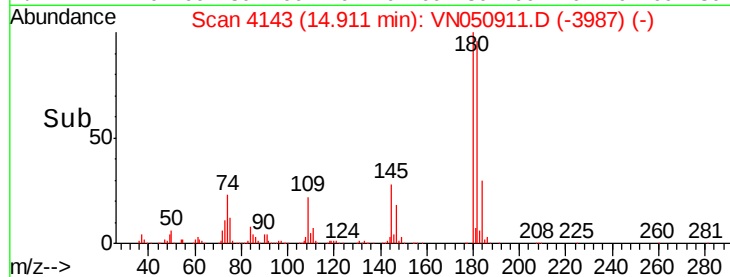
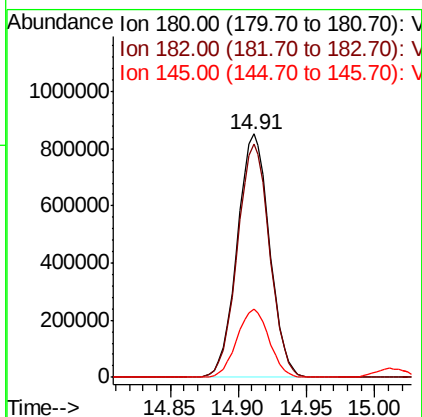
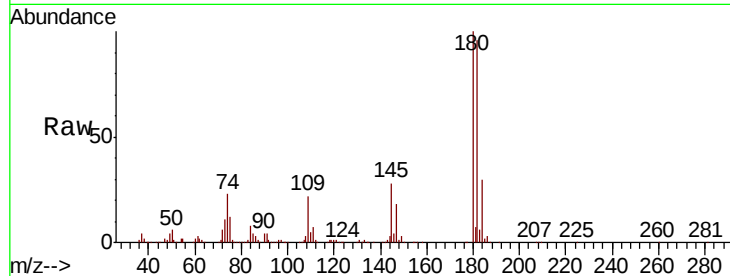
#89
 1,2,4-Trichlorobenzene
 Concen: 199.10 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.4
145	28.0	22.2	33.4

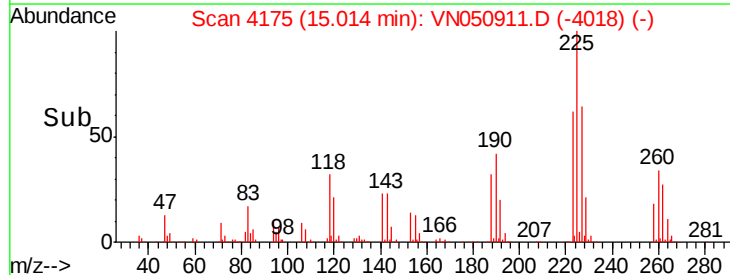
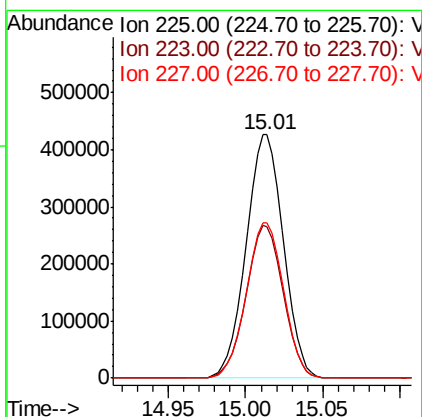
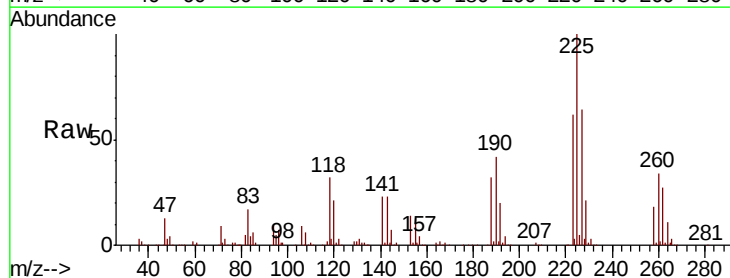
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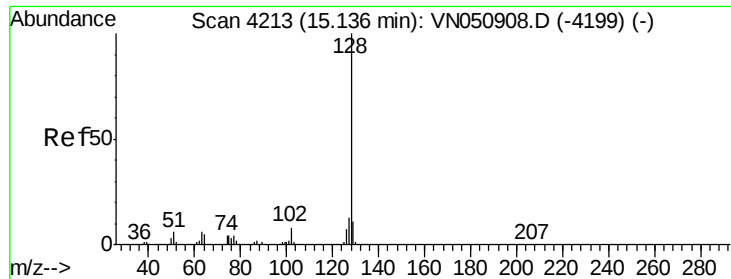
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#90
 Hexachlorobutadiene
 Concen: 149.72 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050911.D
 Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	0.0	127.8
227	64.1	0.0	128.4





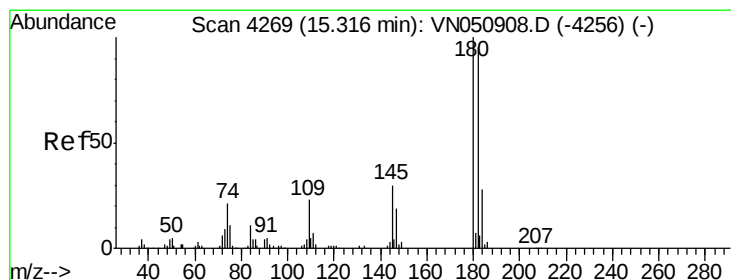
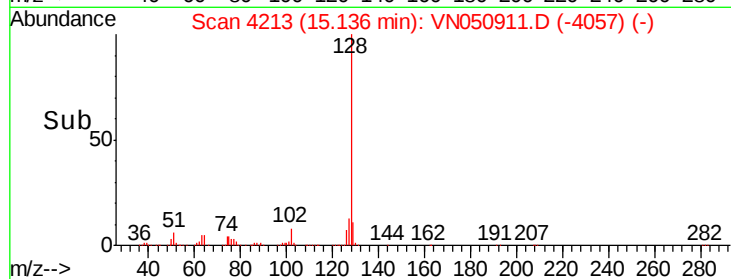
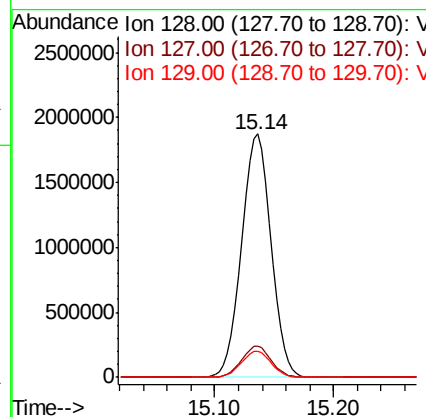
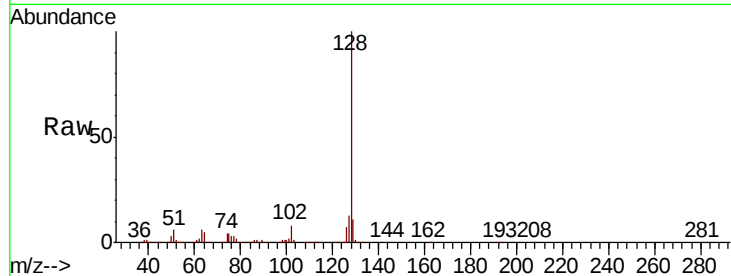
#91
Naphthalene
Concen: 213.01 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.8	8.7	13.1

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 189.87 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050911.D
Acq: 28 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	0.0	192.8
145	30.0	0.0	60.0

