

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050538.D
 Acq On : 11 Aug 2018 00:27
 Operator : MD\SY
 Sample : PB111921ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#12

Quant Time: Aug 11 04:59:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	646916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1072405	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	941802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	363804	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	448696	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
35) Dibromofluoromethane	7.59	113	412422	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	10.09	98	1487883	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
62) 4-Bromofluorobenzene	12.40	95	425517	38.59	ug/l	0.00
Spiked Amount			Recovery	=	77.18%	

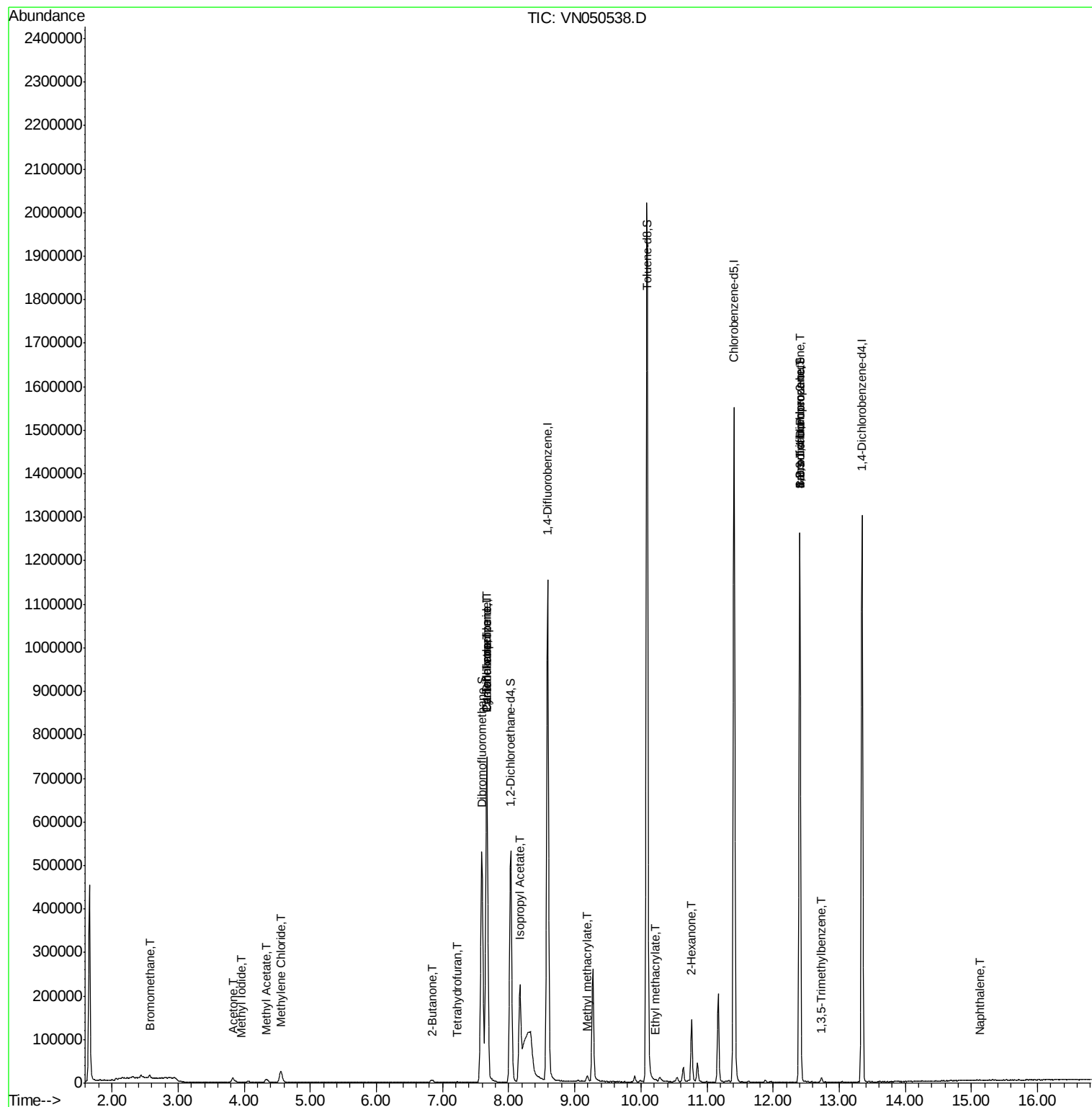
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2878	Below Cal	#	86
5) Bromomethane	2.57	94	3918	1.04	ug/l	94
10) Methyl Iodide	3.95	142	735	0.22	ug/l	# 90
16) Acetone	3.83	43	18395	6.79	ug/l	97
18) Methyl Acetate	4.33	43	14437	1.97	ug/l	97
20) Methylene Chloride	4.55	84	20052	1.03	ug/l	97
25) 2-Butanone	6.86	43	3769	0.88	ug/l	# 80
29) Tetrahydrofuran	7.22	42	1154	0.50	ug/l	# 75
31) Cyclohexane	7.66	56	11934	0.34	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	44522	3.78	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	56769	4.62	ug/l	# 16
43) Isopropyl Acetate	8.17	43	278725	19.03	ug/l	97
48) Methyl methacrylate	9.19	41	7881	1.07	ug/l	# 21
56) Ethyl methacrylate	10.23	69	2587	1.92	ug/l	# 35
59) 2-Hexanone	10.77	43	20270	2.75	ug/l	# 56
71) Bromoform	12.40	173	2182	0.35	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	205422	31.19	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	4558	0.21	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	205422	109.60	ug/l	# 13
95) Naphthalene	15.14	128	1198	3.68	ug/l	# 69

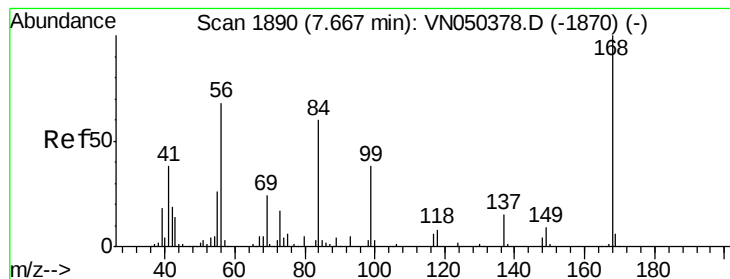
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

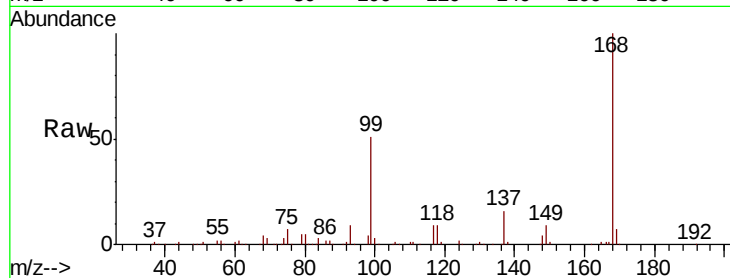
PB111921ZHE#12

Tot Ion:168 Resp: 646916

Ion Ratio Lower Upper

168 100

99 50.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

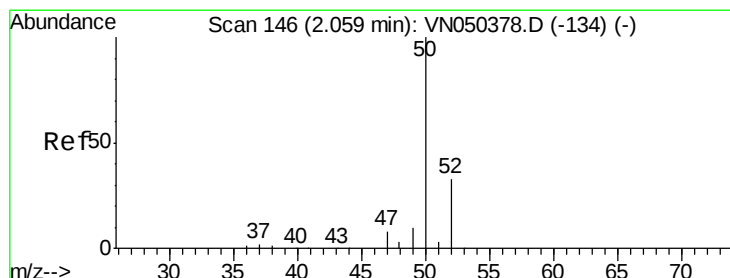
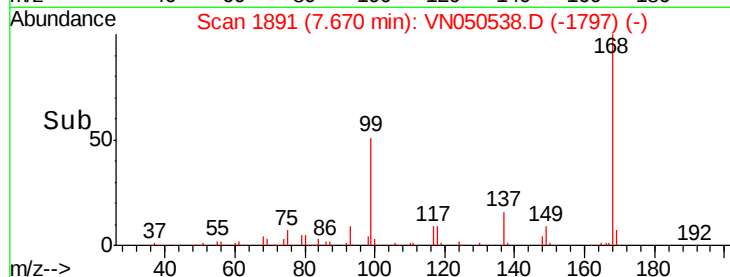
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050538.D

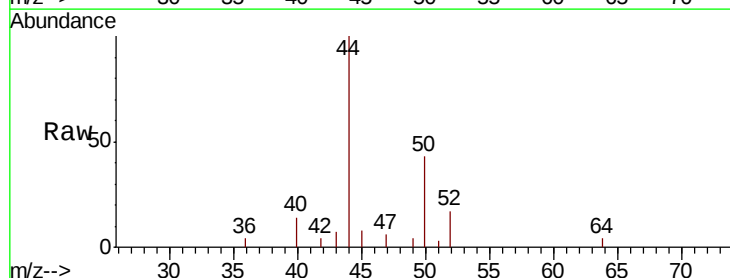
Acq: 11 Aug 2018 00:27

Tgt Ion: 50 Resp: 2878

Ion Ratio Lower Upper

50 100

52 40.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2500

2000

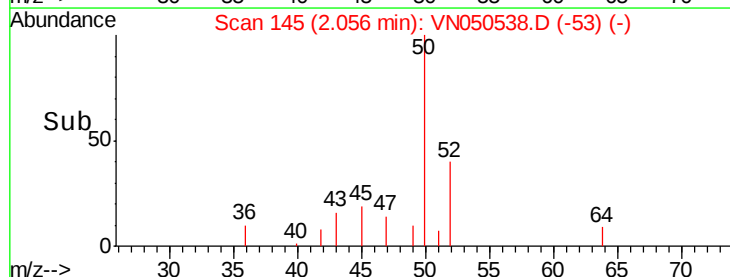
1500

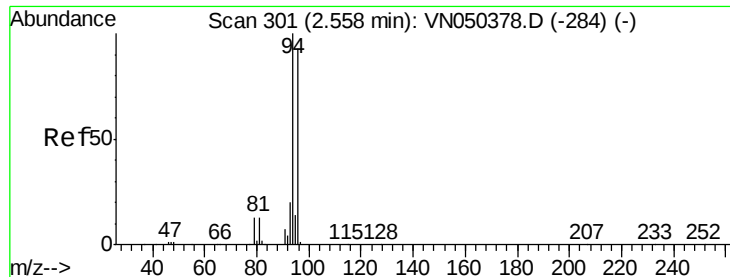
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.04 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

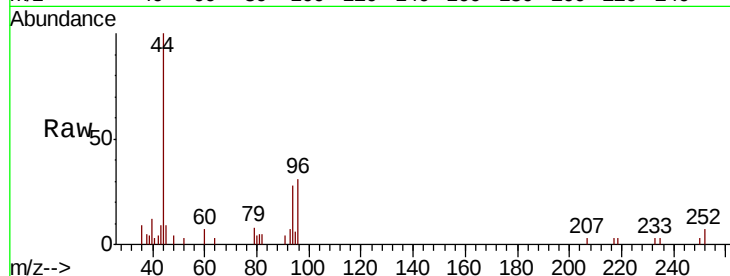
PB111921ZHE#12

Tot Ion: 94 Resp: 3918

Ion Ratio Lower Upper

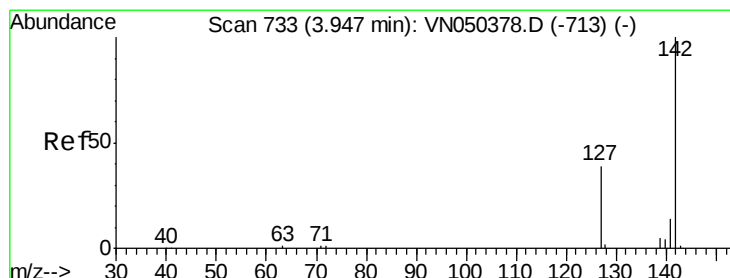
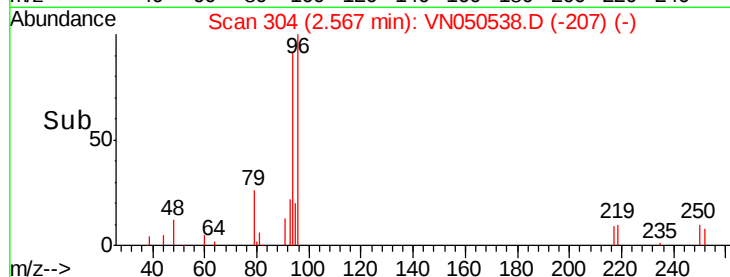
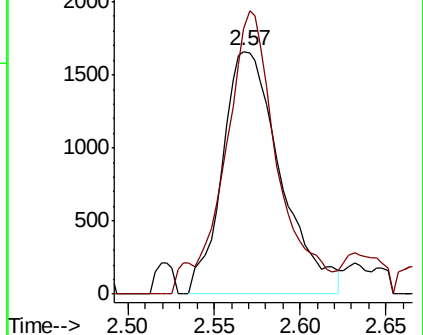
94 100

96 99.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050538.D (-207) (-)

Ion 95.90 (95.60 to 96.60): VN050538.D (-207) (-)



#10

Methyl Iodide

Concen: 0.22 ug/l

RT: 3.95 min Scan# 733

Delta R.T. 0.00 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

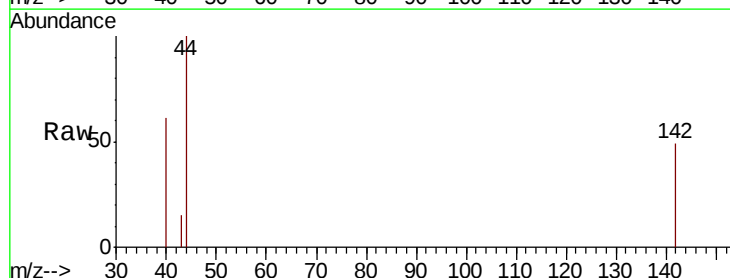
Tgt Ion: 142 Resp: 735

Ion Ratio Lower Upper

142 100

127 41.0 33.4 50.2

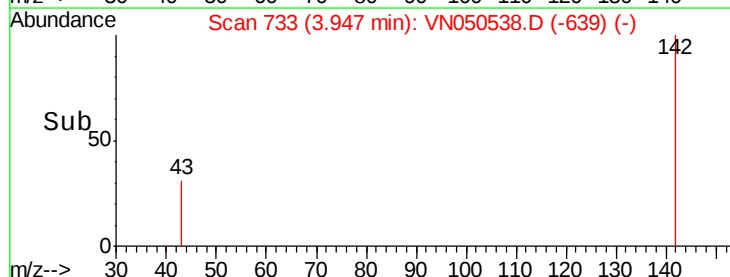
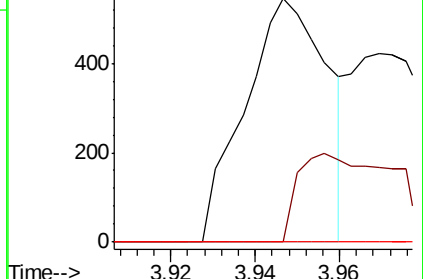
141 0.0 11.6 17.4#

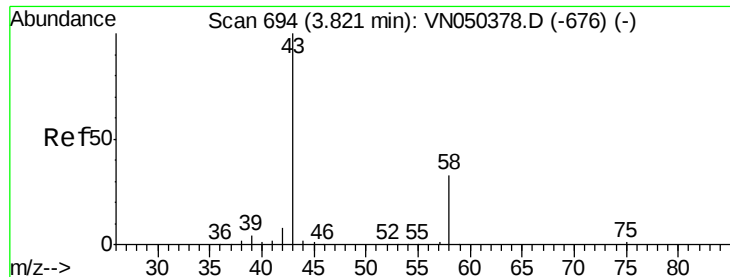


Abundance Ion 141.80 (141.50 to 142.50): VN050538.D (-639) (-)

Ion 126.80 (126.50 to 127.50): VN050538.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050538.D (-639) (-)





#16

Acetone

Concen: 6.79 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

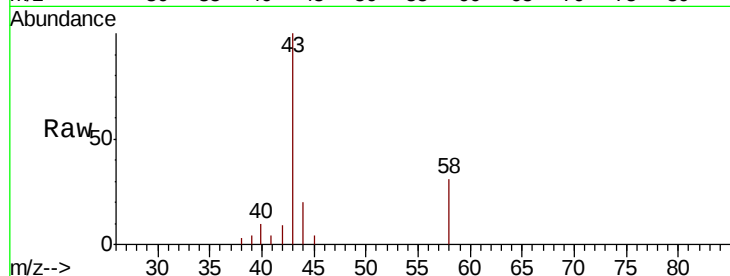
PB111921ZHE#12

Tot Ion: 43 Resp: 18395

Ion Ratio Lower Upper

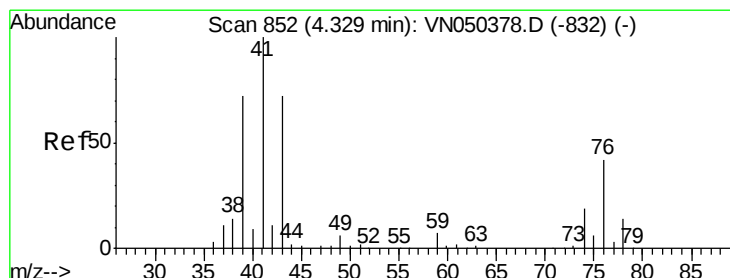
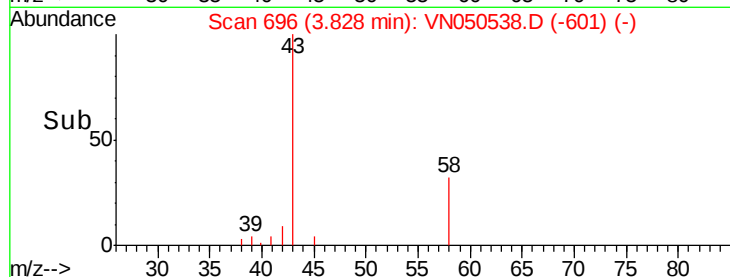
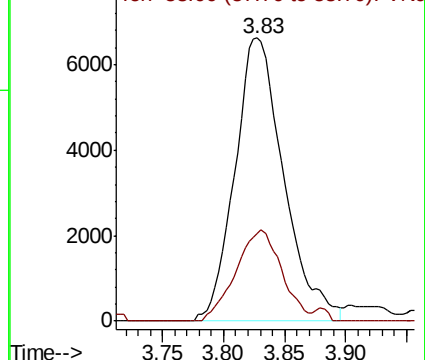
43 100

58 30.8 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.97 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050538.D

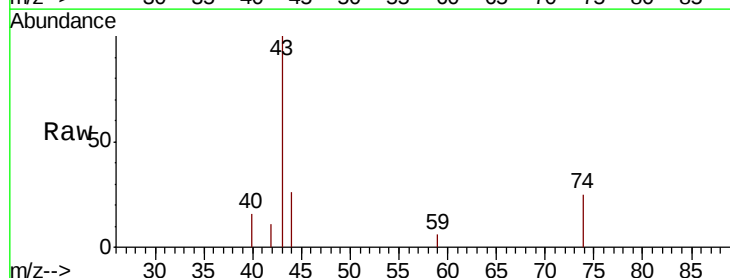
Acq: 11 Aug 2018 00:27

Tgt Ion: 43 Resp: 14437

Ion Ratio Lower Upper

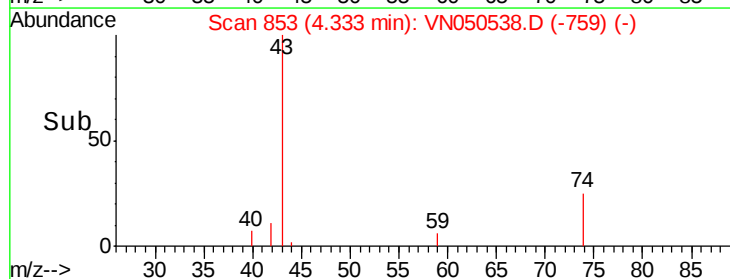
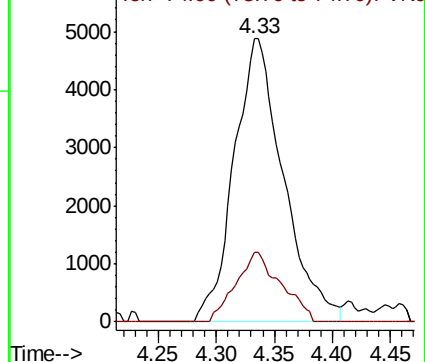
43 100

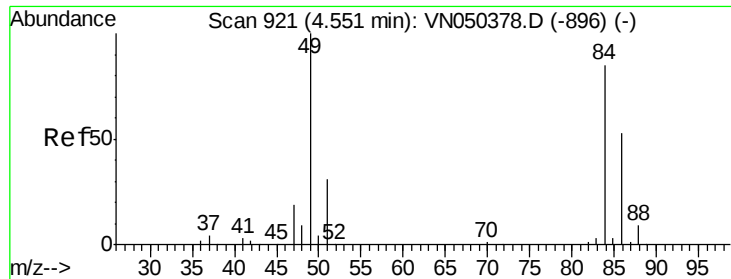
74 22.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

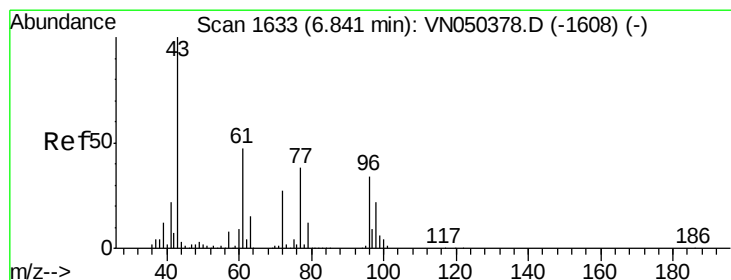
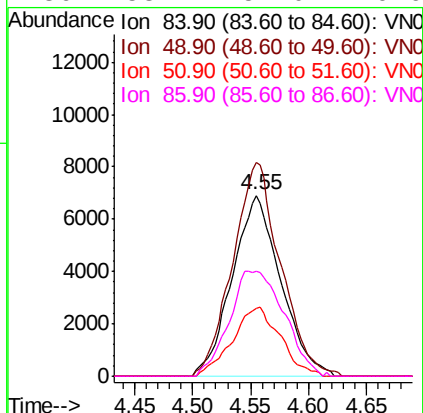
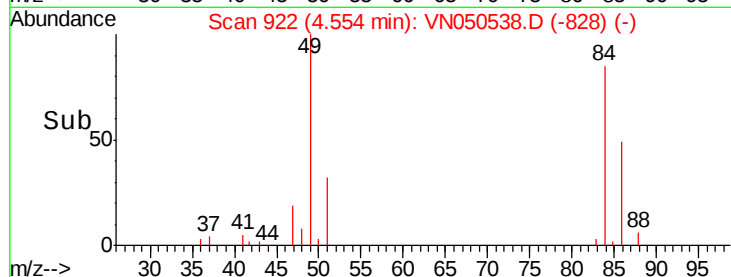
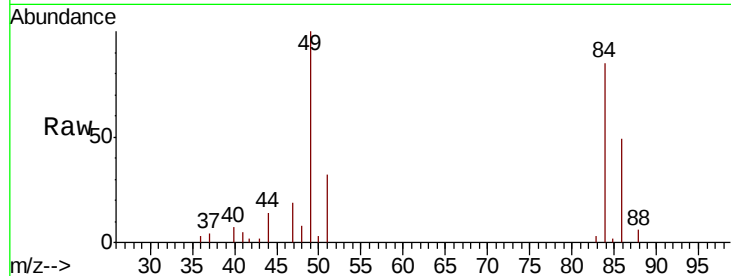




#20
Methvlene Chloride
Concen: 1.03 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

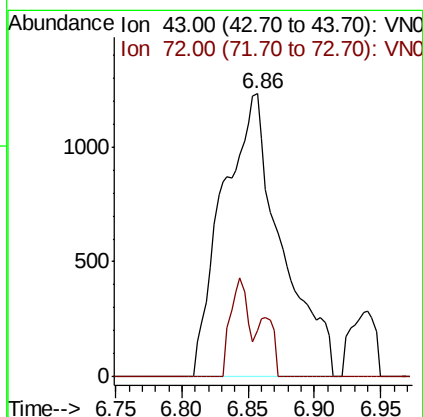
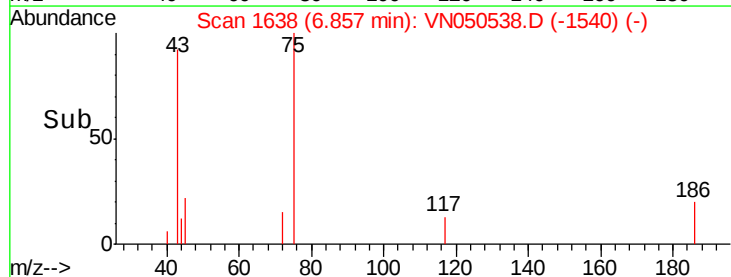
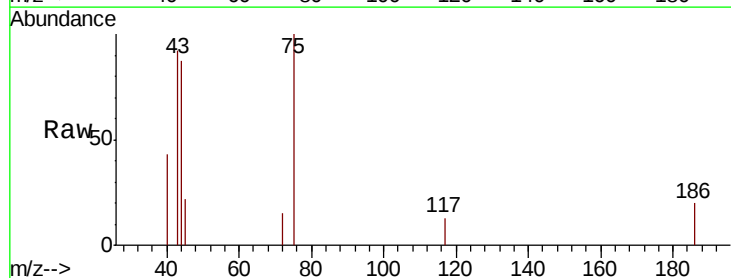
Instrument :
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PB111921ZHE#12

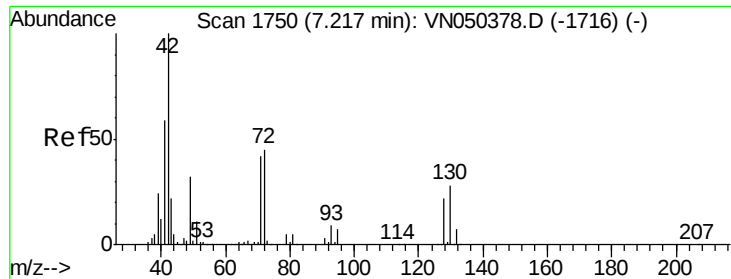
Tot Ion:	84	Resp:	20052
Ion	Ratio	Lower	Upper
84	100		
49	118.3	94.8	142.2
51	37.7	28.3	42.5
86	58.4	51.0	76.6



#25
2-Butanone
Concen: 0.88 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Tgt Ion:	43	Resp:	3769
Ion	Ratio	Lower	Upper
43	100		
72	16.3	21.5	32.3#

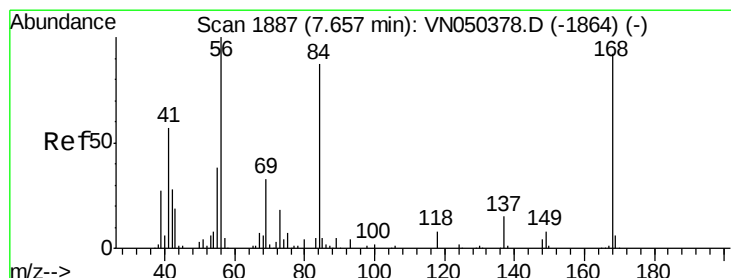
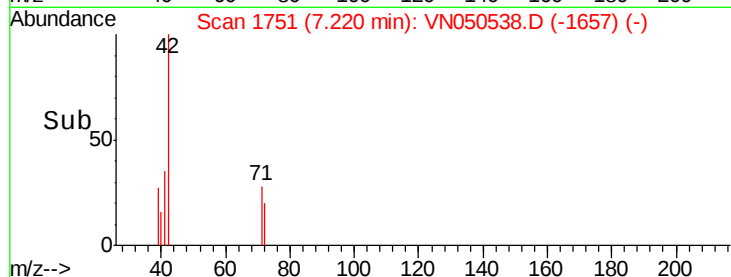
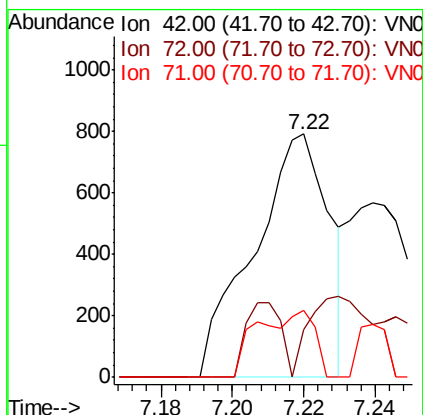
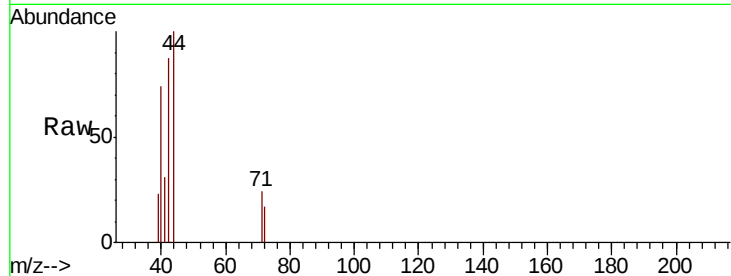




#29
Tetrahydrofuran
Concen: 0.50 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

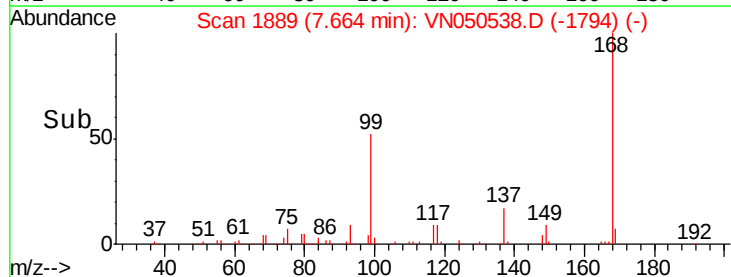
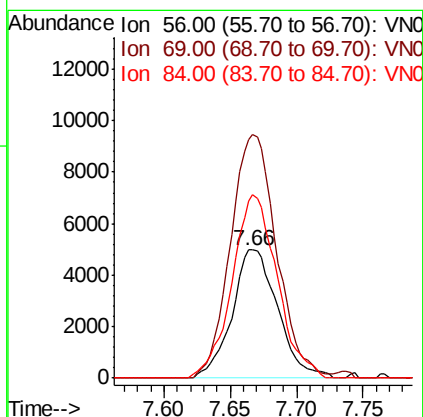
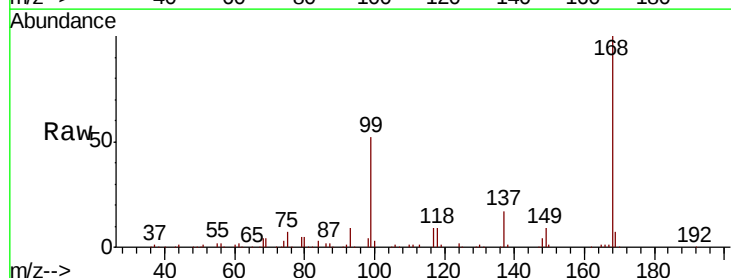
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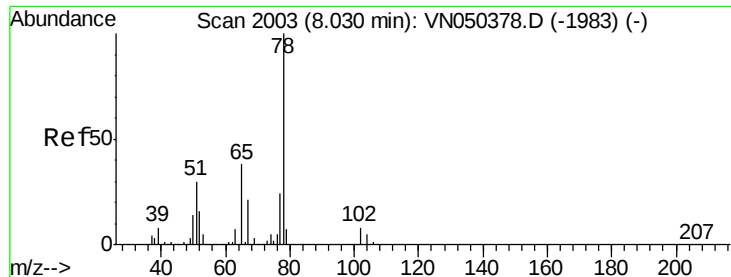
Tot Ion: 42 Resp: 1154
Ion Ratio Lower Upper
42 100
72 34.6 35.9 53.9#
71 20.7 33.7 50.5#



#31
Cyclohexane
Concen: 0.34 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Tgt Ion: 56 Resp: 11934
Ion Ratio Lower Upper
56 100
69 186.6 26.2 39.4#
84 138.4 67.4 101.0#

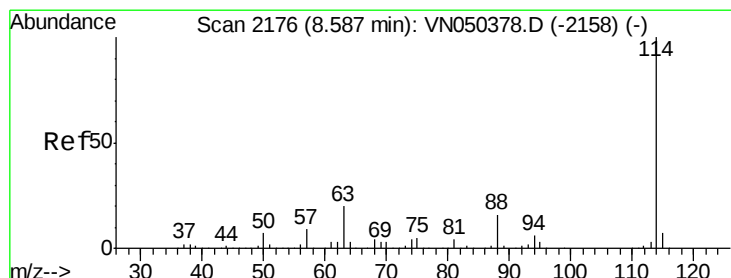
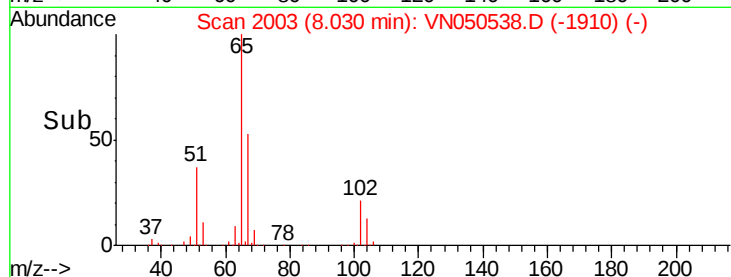
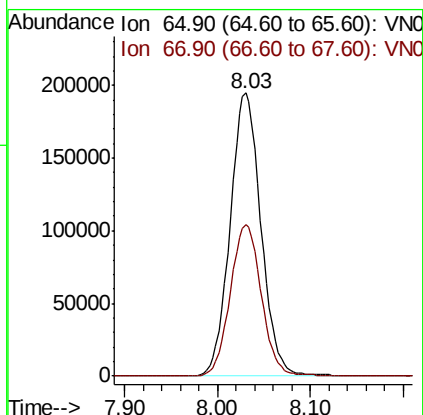
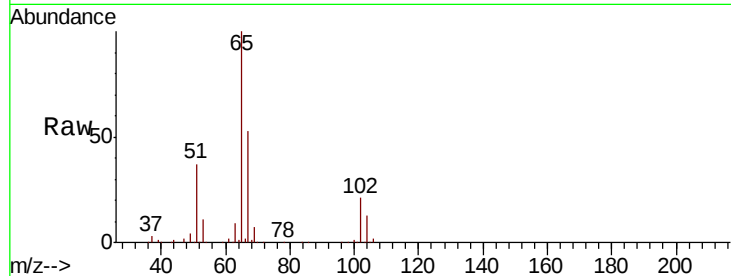




#33
 1,2-Dichloroethane-d4
 Concen: 51.91 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050538.D
 Acq: 11 Aug 2018 00:27

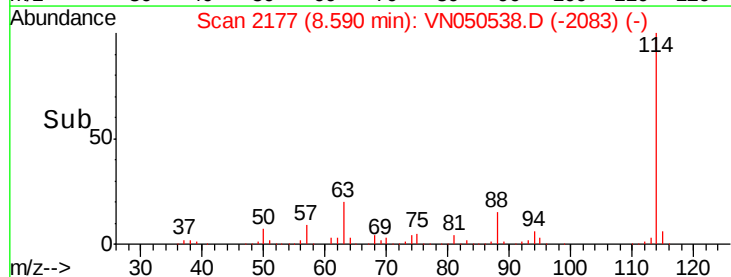
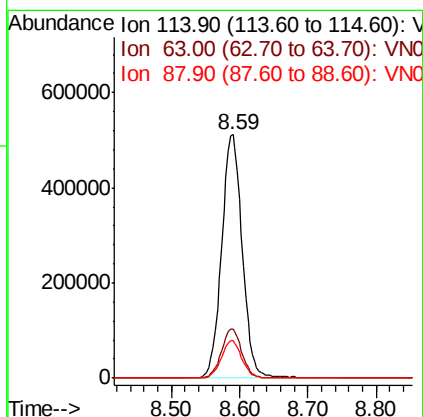
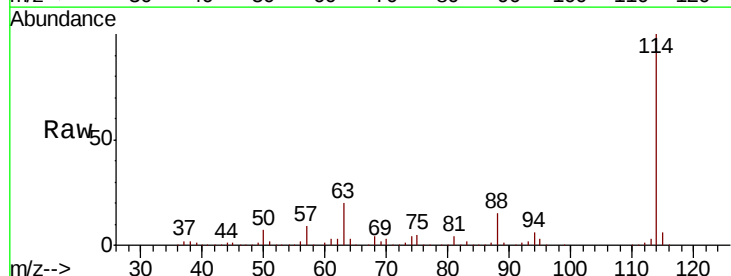
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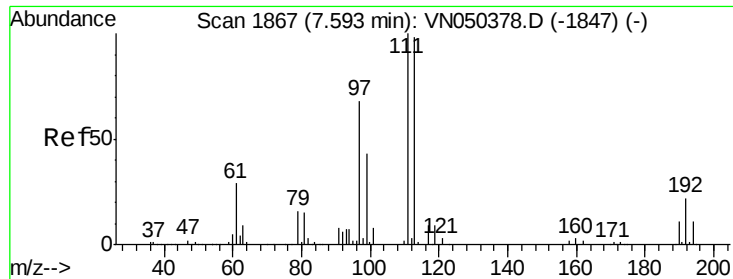
Tot Ion: 65 Resp: 448696
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050538.D
 Acq: 11 Aug 2018 00:27

Tgt Ion: 114 Resp: 1072405
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.4 0.0 31.2

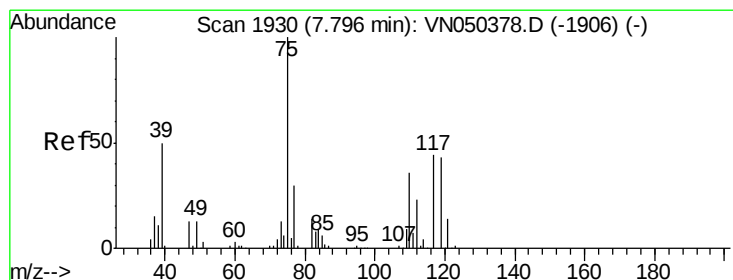
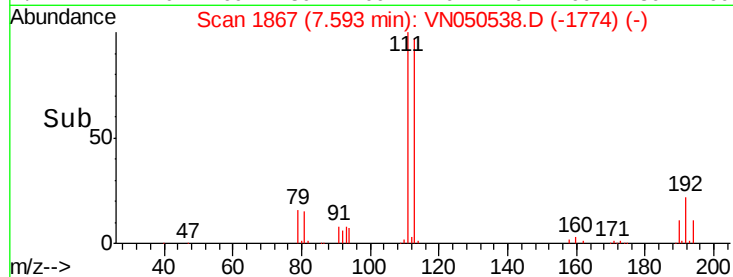
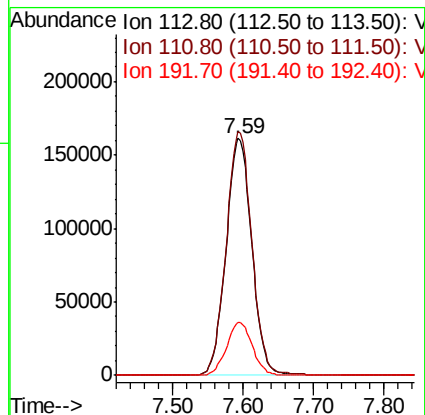
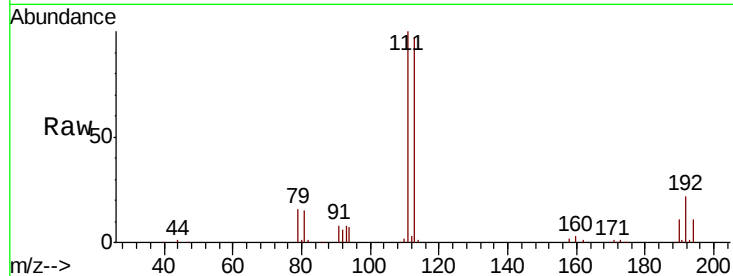




#35
Dibromofluoromethane
Concen: 47.93 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

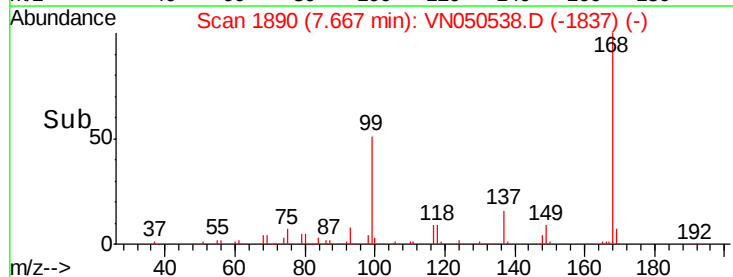
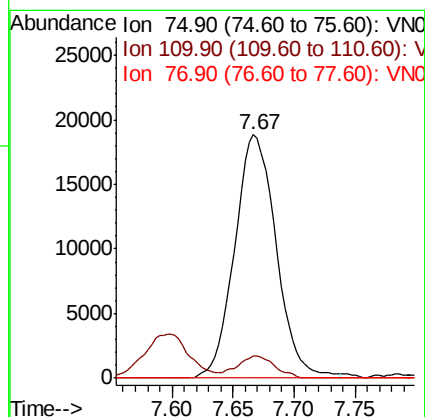
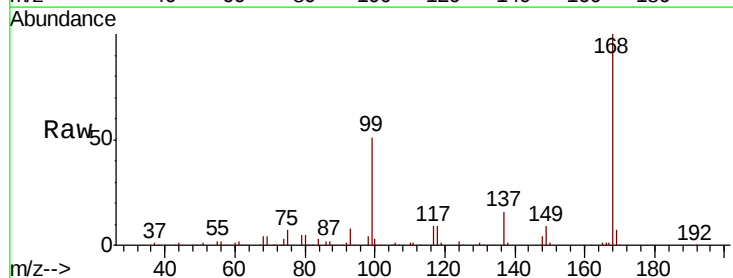
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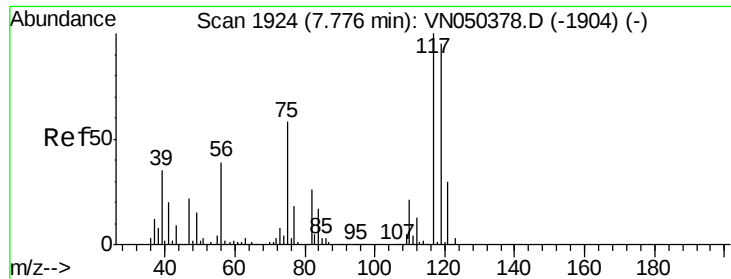
Tot Ion:113 Resp: 412422
Ion Ratio Lower Upper
113 100
111 102.4 80.7 121.1
192 22.1 17.8 26.6



#36
1,1-Dichloropropene
Concen: 3.78 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Tgt Ion: 75 Resp: 44522
Ion Ratio Lower Upper
75 100
110 8.2 18.4 55.2#
77 0.0 25.3 37.9#

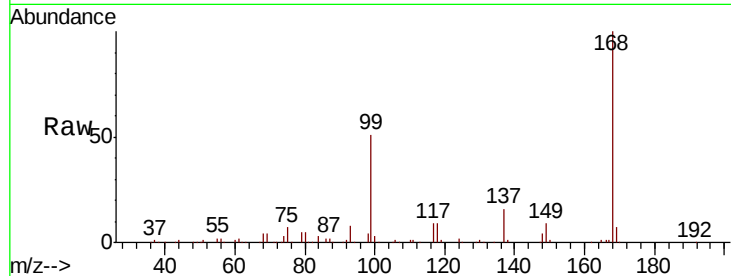




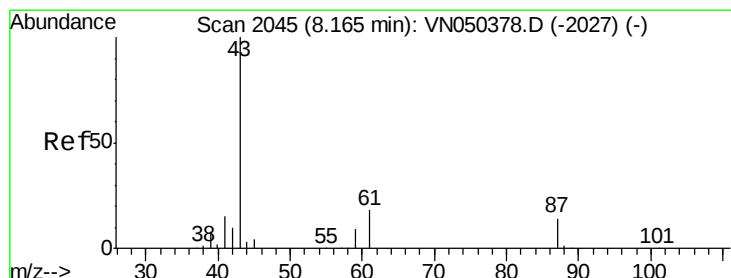
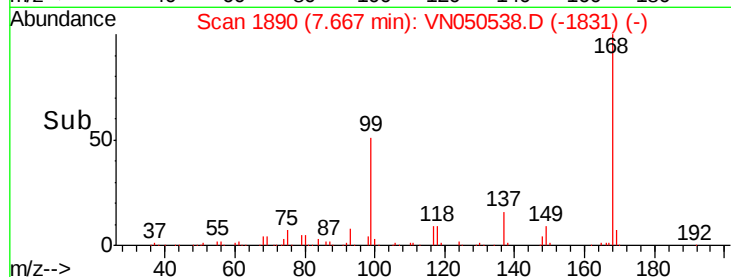
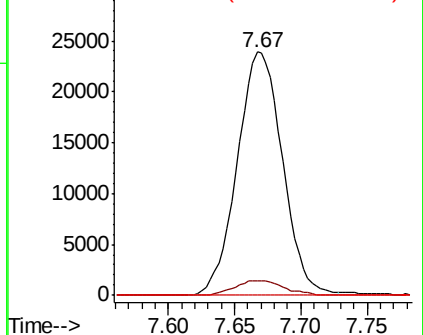
#38
Carbon Tetrachloride
Concen: 4.62 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#12

Tot Ion:117 Resp: 56769
Ion Ratio Lower Upper
117 100
119 6.0 77.4 116.0#
121 0.0 23.9 35.9#

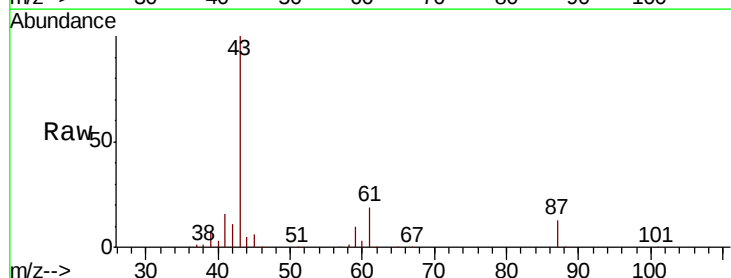


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

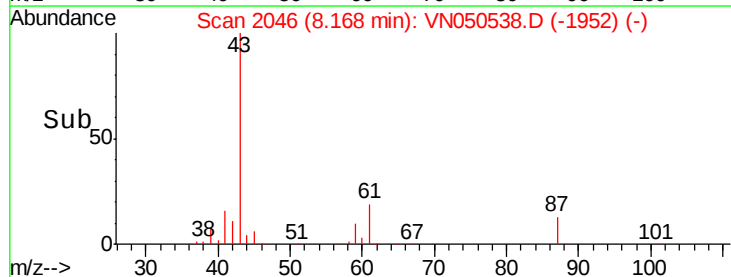
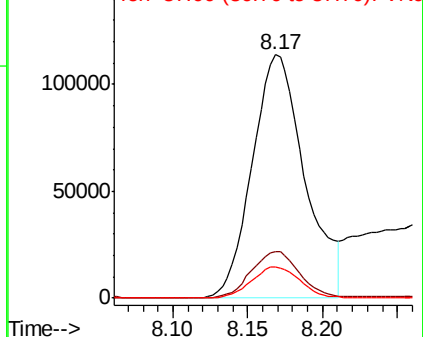


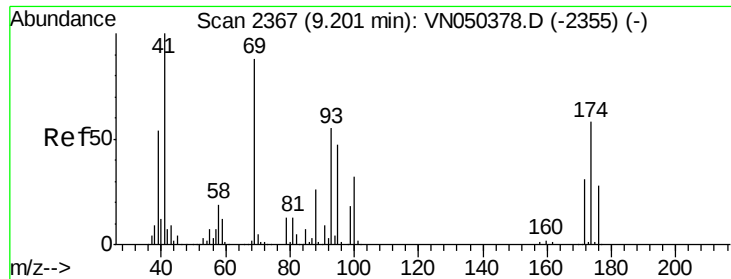
#43
Isopropyl Acetate
Concen: 19.03 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Tgt Ion: 43 Resp: 278725
Ion Ratio Lower Upper
43 100
61 18.0 15.8 23.6
87 11.8 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

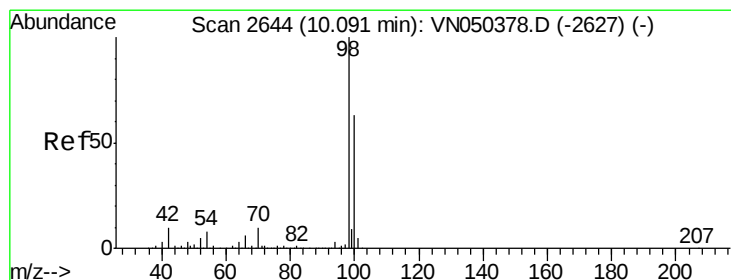
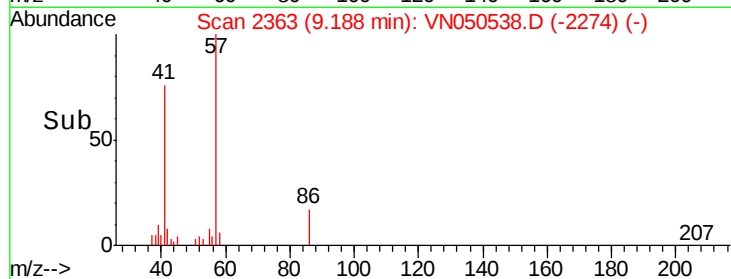
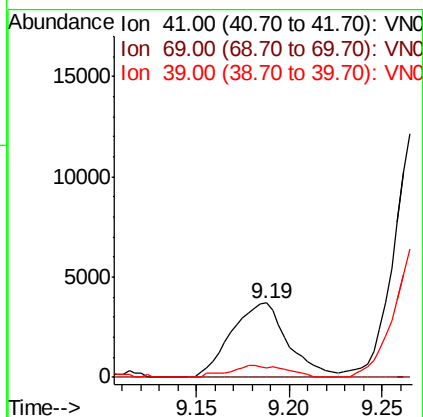
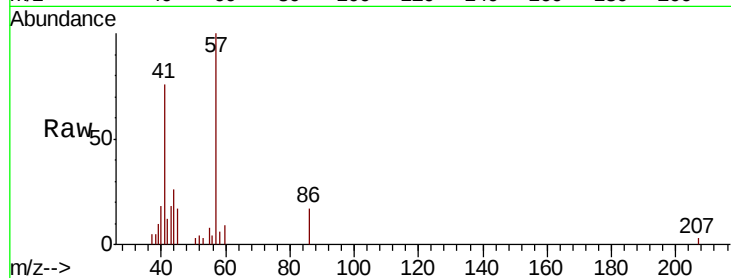




#48
Methvl methacrylate
Concen: 1.07 ug/l
RT: 9.19 min Scan# 2363
Delta R.T. -0.01 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

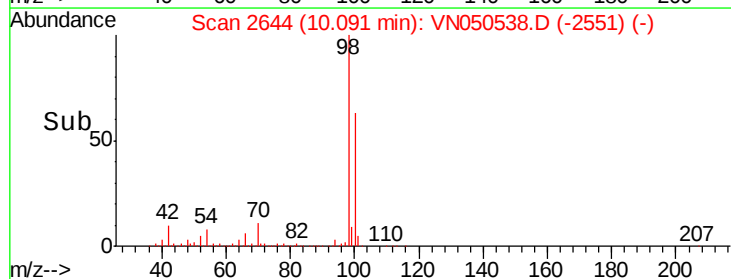
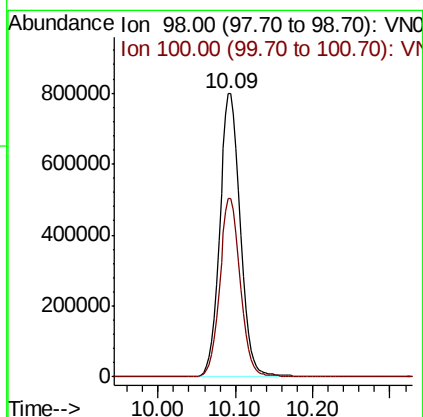
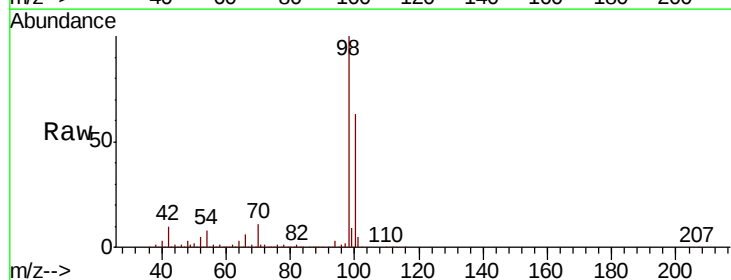
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#12

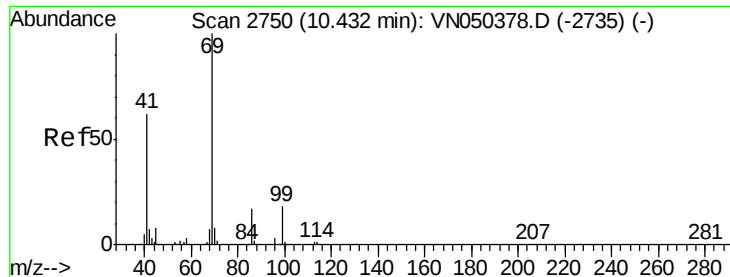
Tot Ion: 41 Resp: 7881
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.1 43.9 65.9#



#50
Toluene-d8
Concen: 45.99 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Tgt Ion: 98 Resp: 1487883
Ion Ratio Lower Upper
98 100
100 62.9 50.7 76.1





#56

Ethyl methacrylate

Concen: 1.92 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#12

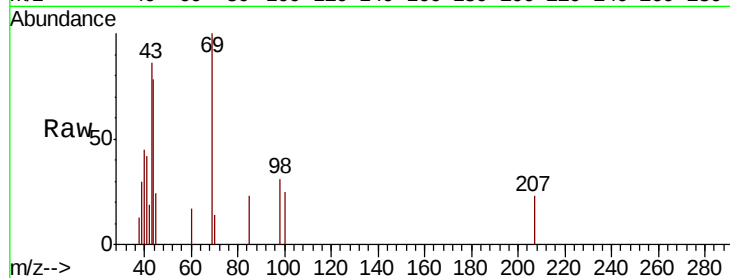
Tot Ion: 69 Resp: 2587

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

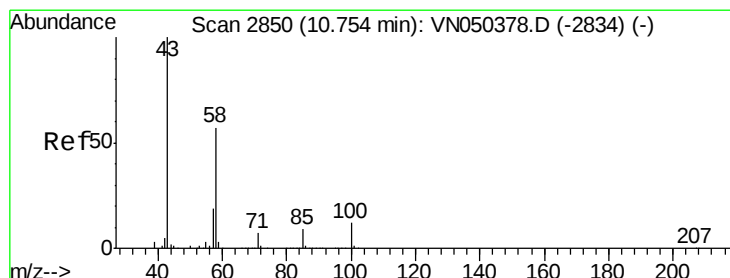
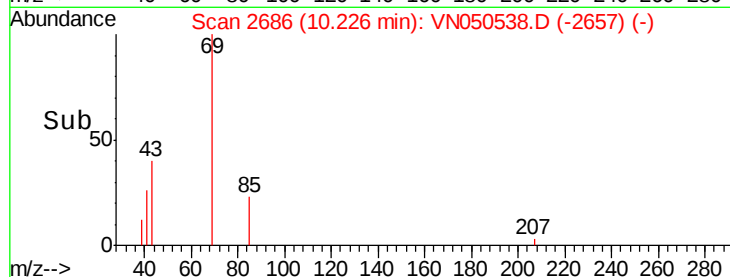
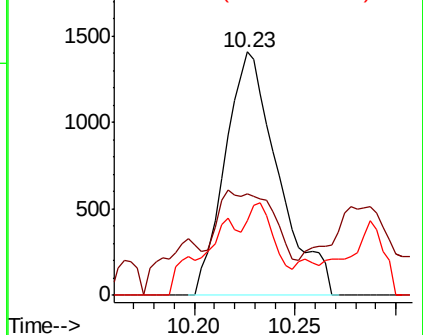
39 14.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 2.75 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050538.D

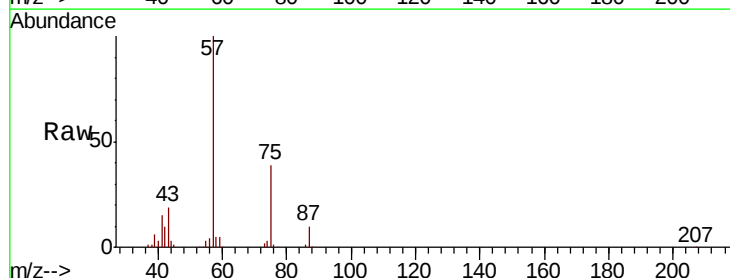
Acq: 11 Aug 2018 00:27

Tgt Ion: 43 Resp: 20270

Ion Ratio Lower Upper

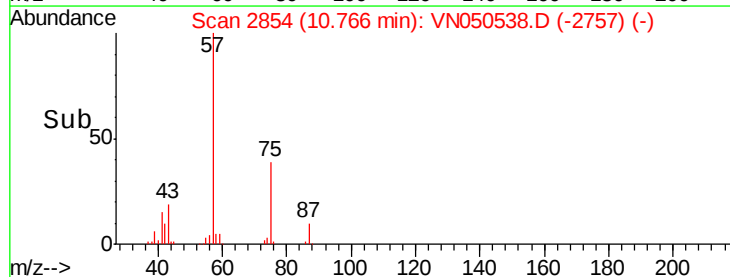
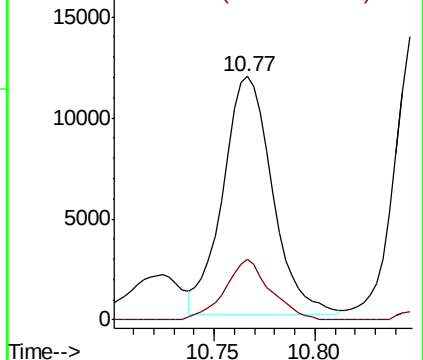
43 100

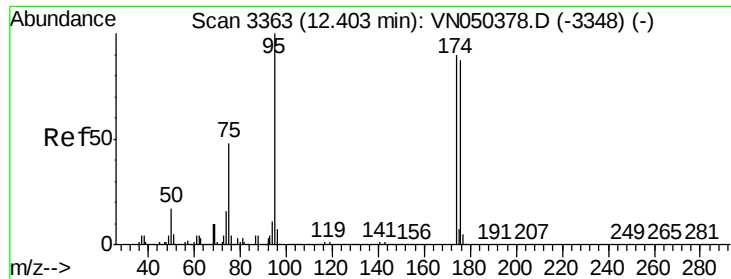
58 23.3 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

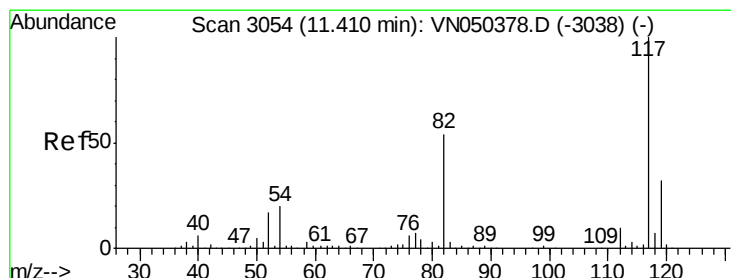
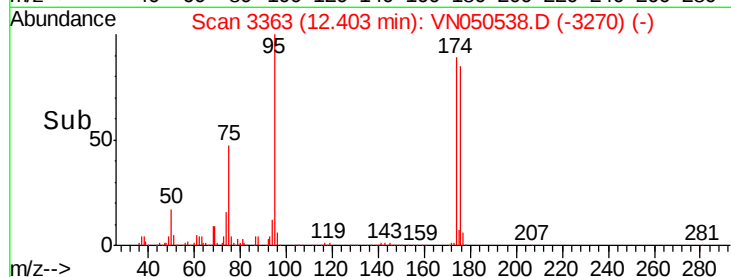
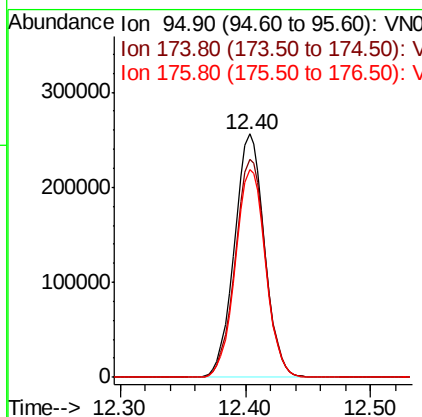
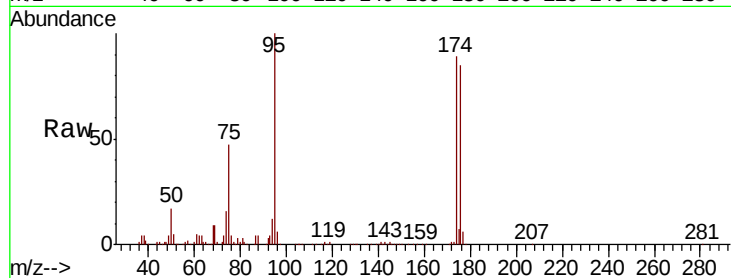




#62
4-Bromofluorobenzene
Concen: 38.59 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

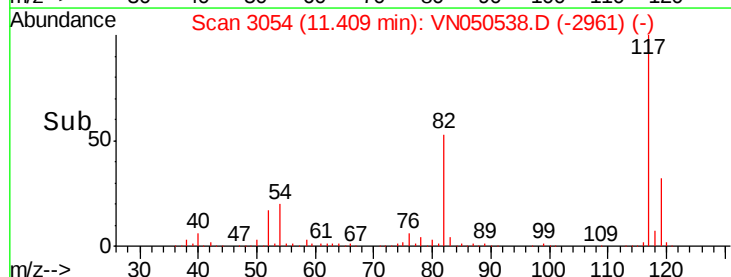
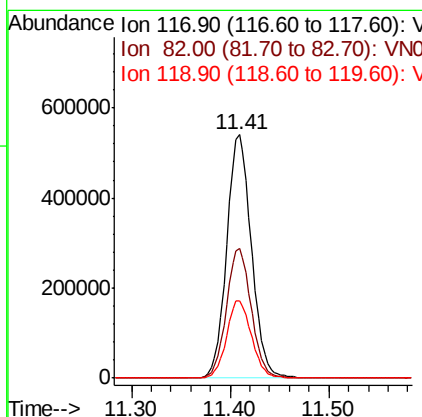
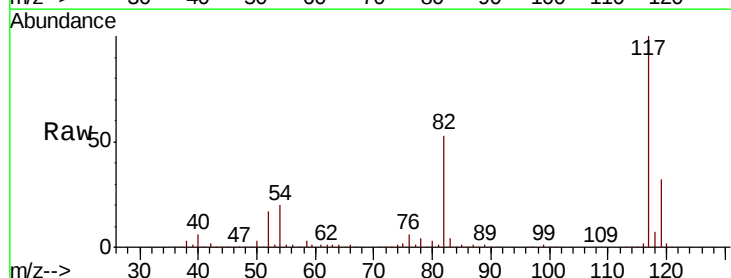
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#12

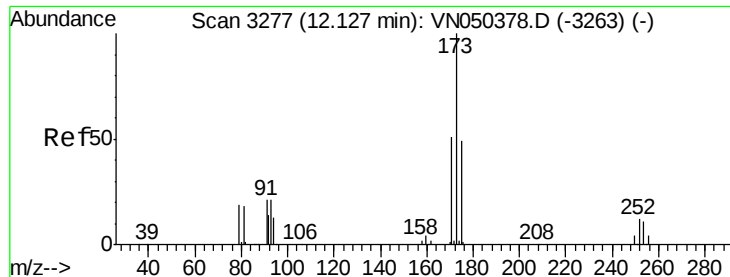
Tot Ion: 95 Resp: 425517
Ion Ratio Lower Upper
95 100
174 90.8 0.0 178.2
176 86.2 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050538.D
Acq: 11 Aug 2018 00:27

Tgt Ion: 117 Resp: 941802
Ion Ratio Lower Upper
117 100
82 53.2 43.7 65.5
119 31.9 26.1 39.1





#71

Bromoform

Concen: 0.35 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#12

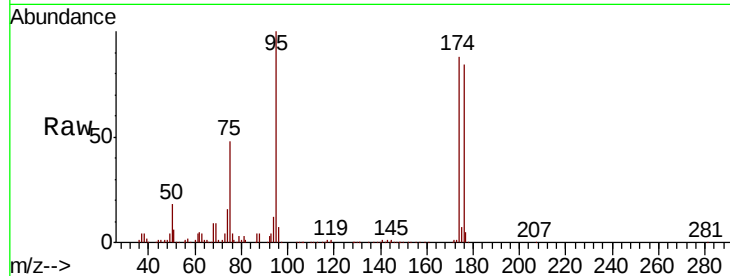
Tot Ion:173 Resp: 2182

Ion Ratio Lower Upper

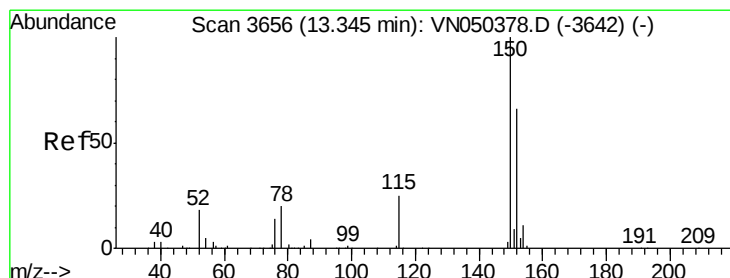
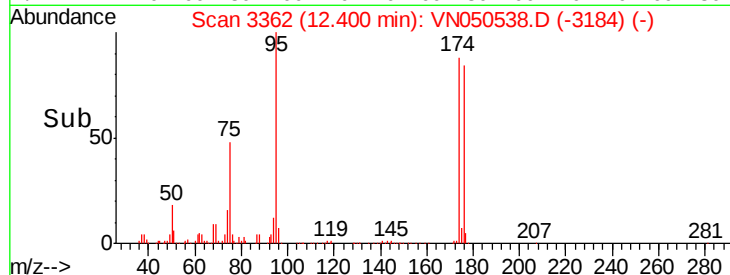
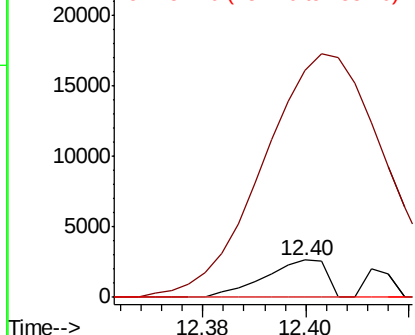
173 100

175 1087.6 24.1 72.2#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

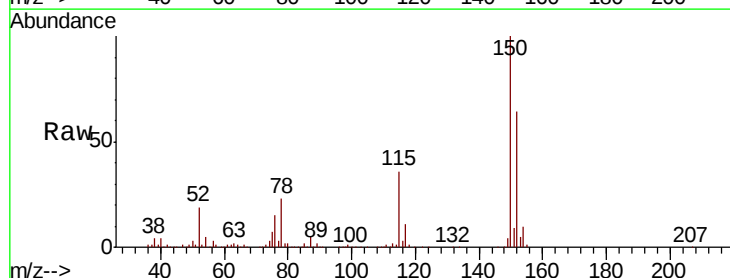
Tgt Ion:152 Resp: 363804

Ion Ratio Lower Upper

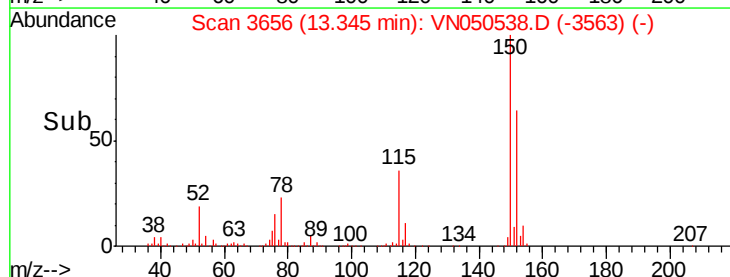
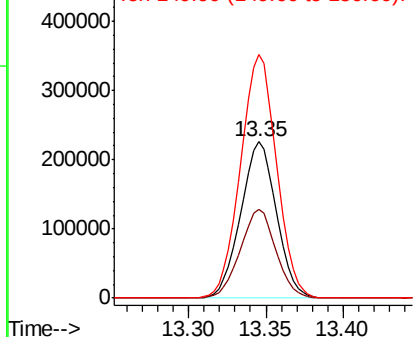
152 100

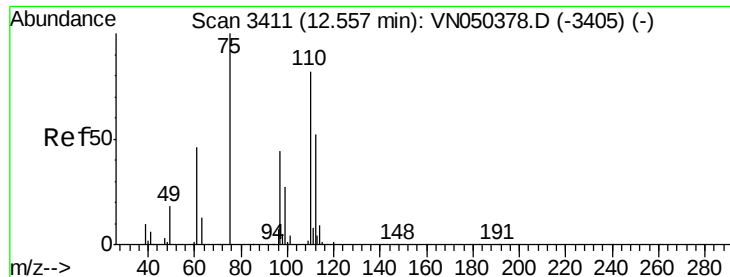
115 56.4 27.8 83.3

150 156.9 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

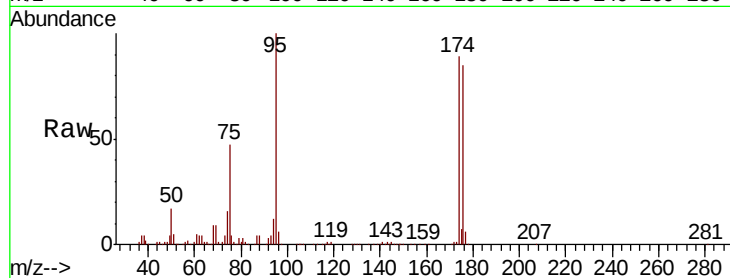
PB111921ZHE#12

Tot Ion: 75 Resp: 205422

Ion Ratio Lower Upper

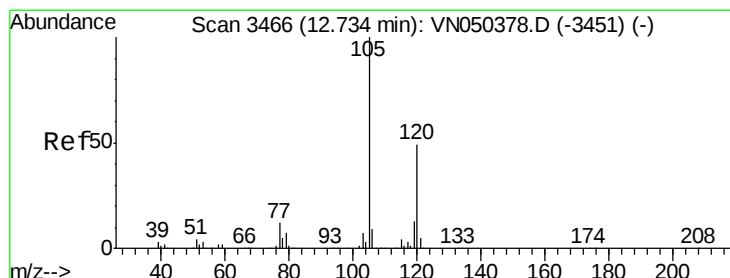
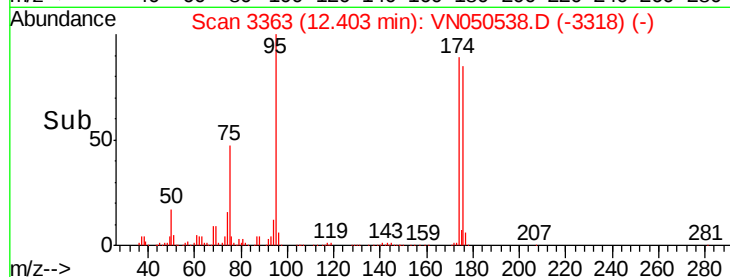
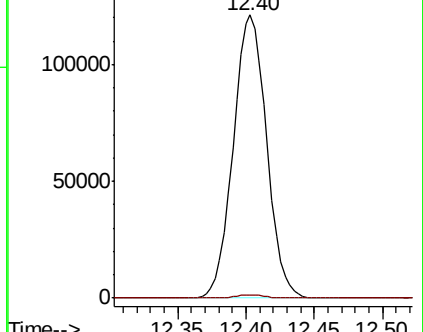
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050538.D (-3363) (-)

Ion 77.00 (76.70 to 77.70): VN050538.D (-3363) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050538.D

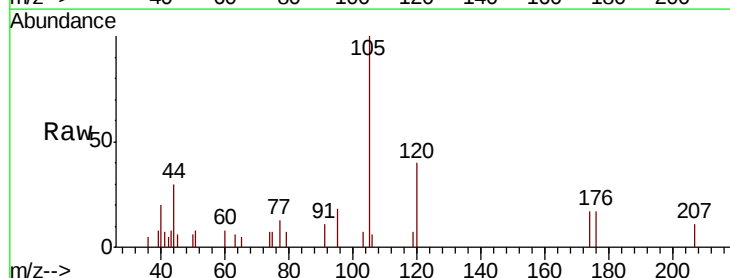
Acq: 11 Aug 2018 00:27

Tgt Ion: 105 Resp: 4558

Ion Ratio Lower Upper

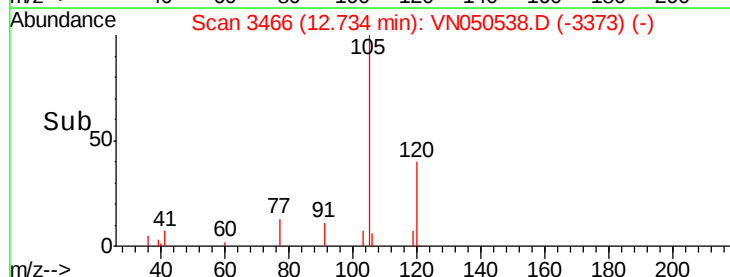
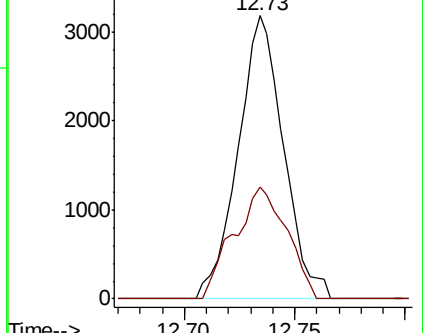
105 100

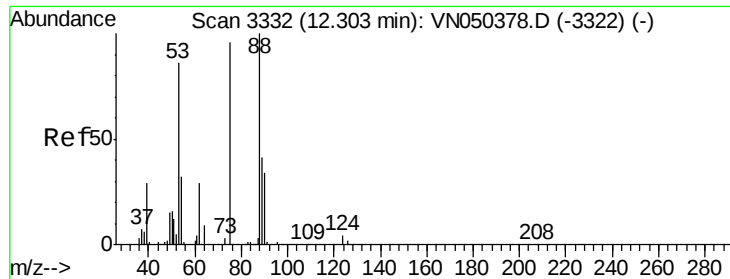
120 45.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050538.D (-3466) (-)

Ion 120.00 (119.70 to 120.70): VN050538.D (-3466) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 109.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#12

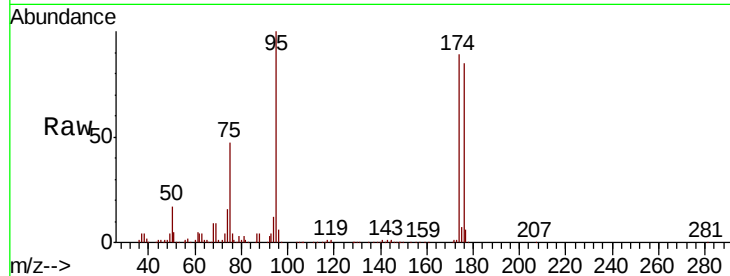
Tot Ion: 75 Resp: 205422

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

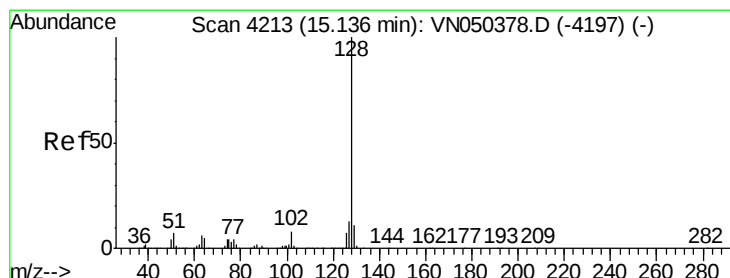
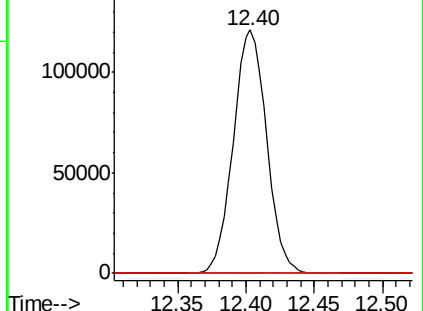
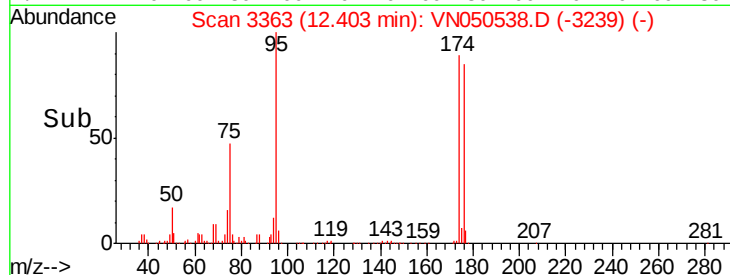
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.68 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050538.D

Acq: 11 Aug 2018 00:27

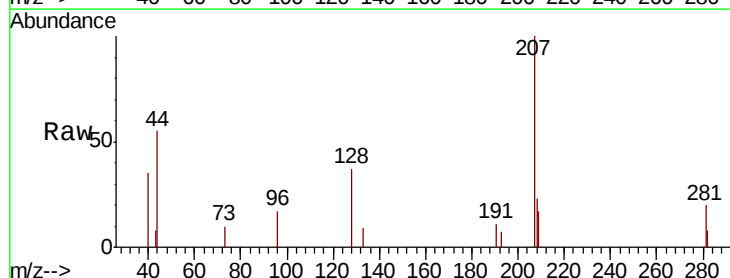
Tgt Ion: 128 Resp: 1198

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

