

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
 Data File : VN050150.D
 Acq On : 27 Jul 2018 23:42
 Operator : MD\SY
 Sample : PB111513ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#10

Quant Time: Jul 28 01:15:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	638834	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1082205	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	918736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	332426	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	459204	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	7.59	113	406373	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
50) Toluene-d8	10.09	98	1453992	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	
62) 4-Bromofluorobenzene	12.40	95	411004	38.42	ug/l	0.00
Spiked Amount			Recovery	=	76.84%	

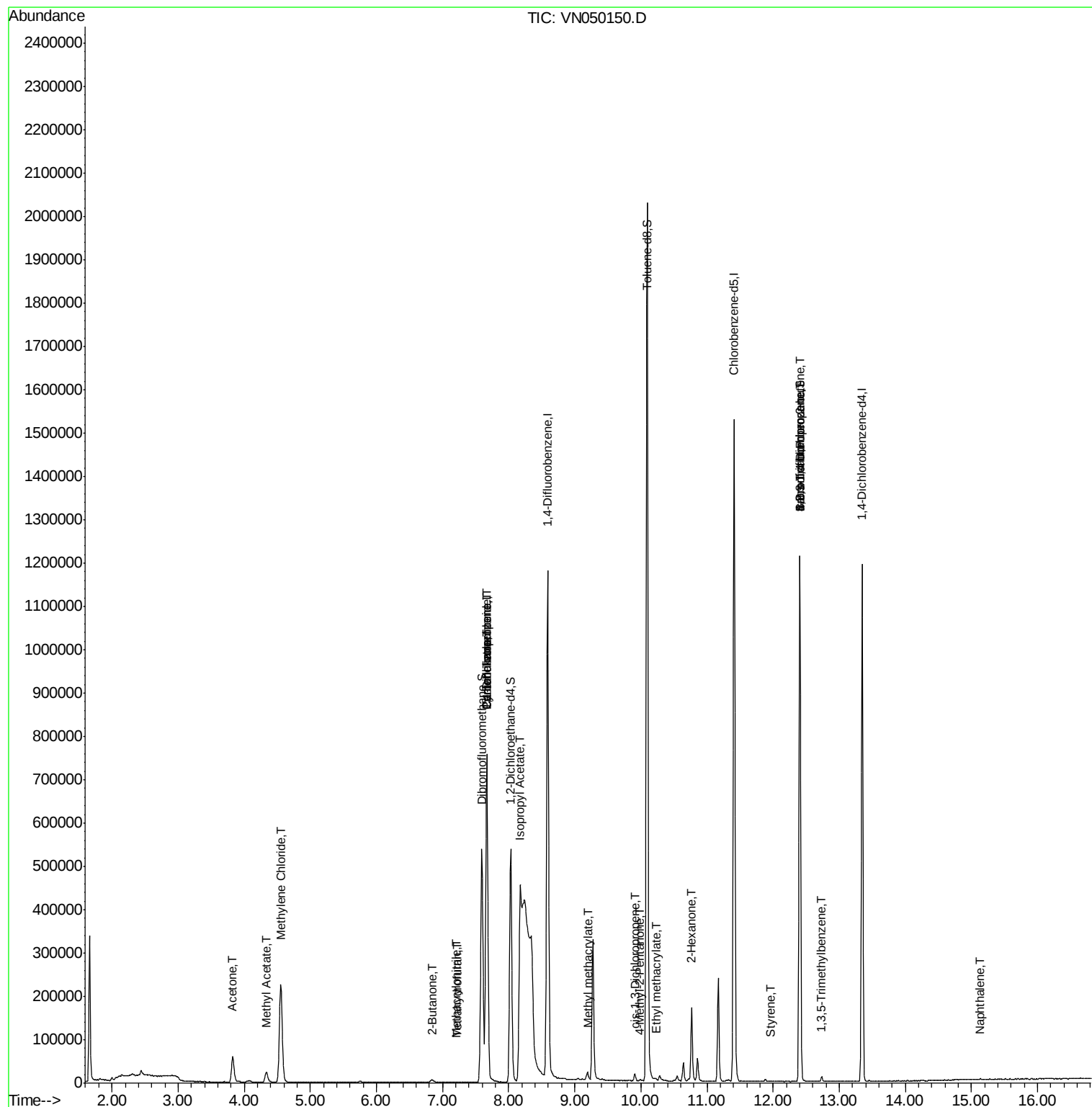
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	521	Below Cal		86
16) Acetone	3.82	43	100689	44.39	ug/l	98
18) Methyl Acetate	4.33	43	45023	4.01	ug/l	99
20) Methylene Chloride	4.55	84	177623	21.77	ug/l	98
25) 2-Butanone	6.84	43	2210	0.65	ug/l #	88
29) Tetrahydrofuran	7.22	42	1116	0.51	ug/l #	40
31) Cyclohexane	7.67	56	12414	0.94	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45997	3.77	ug/l #	47
38) Carbon Tetrachloride	7.67	117	58596	4.53	ug/l #	17
41) Methacrylonitrile	7.20	41	178	2.79	ug/l #	10
43) Isopropyl Acetate	8.18	43	585221	36.22	ug/l #	82
48) Methyl methacrylate	9.18	41	9856	1.35	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	2572	0.31	ug/l	97
54) cis-1,3-Dichloropropene	9.91	75	3057	0.22	ug/l #	73
56) Ethyl methacrylate	10.23	69	3041	2.28	ug/l #	51
59) 2-Hexanone	10.77	43	23763	8.96	ug/l #	57
70) Styrene	11.97	104	194	0.93	ug/l #	59
71) Bromoform	12.41	173	2427	0.37	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	165	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	203113	32.88	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4471	0.22	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	203113	104.28	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	64	Below Cal	#	1
95) Naphthalene	15.14	128	1874	4.53	ug/l #	90

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

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Quant Title : SW846 8260
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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: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

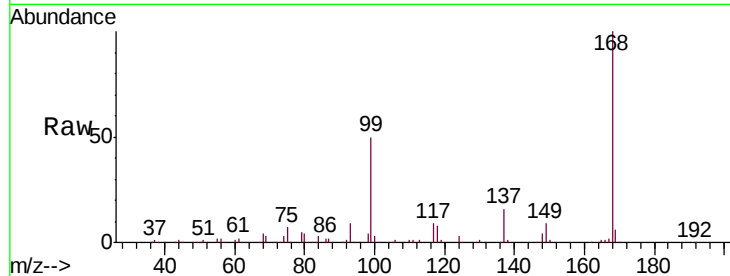
PB111513ZHE#10

Tot Ion:168 Resp: 638834

Ion Ratio Lower Upper

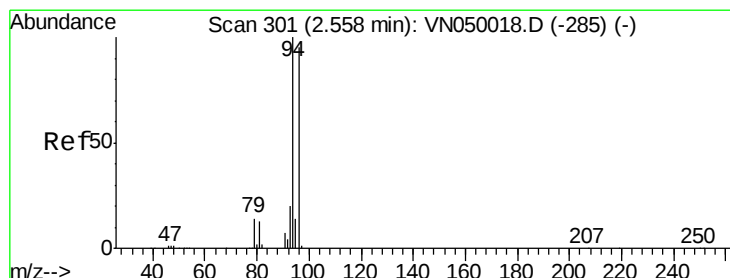
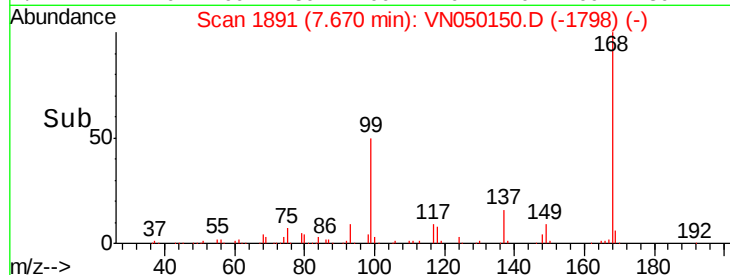
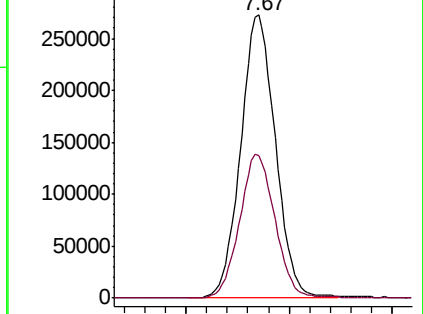
168 100

99 50.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050150.D

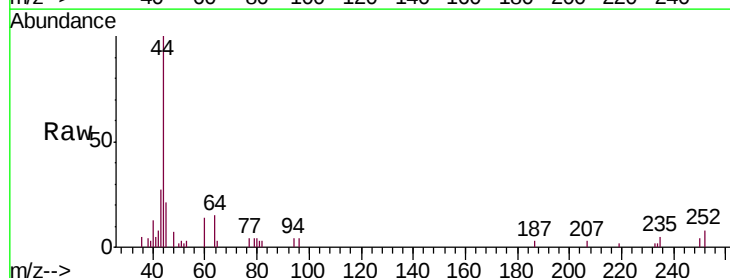
Acq: 27 Jul 2018 23:42

Tgt Ion: 94 Resp: 521

Ion Ratio Lower Upper

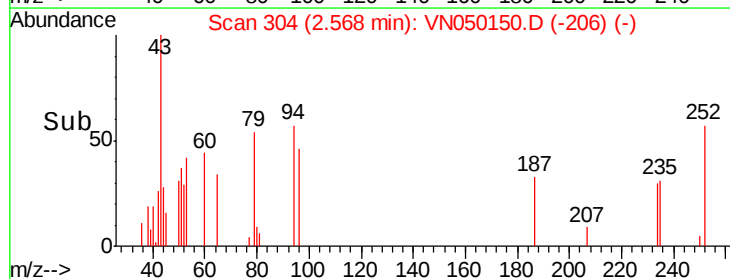
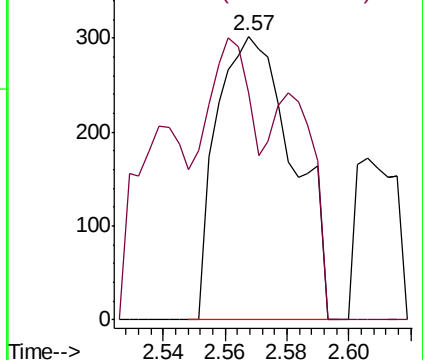
94 100

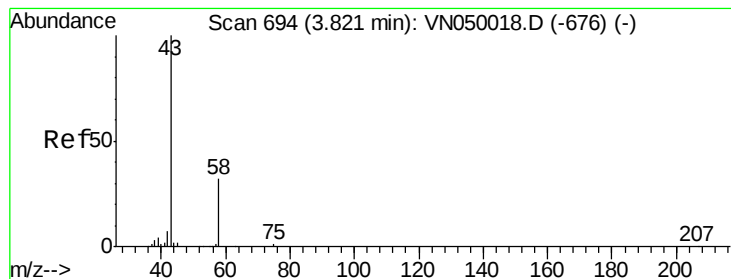
96 80.1 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: 44.39 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

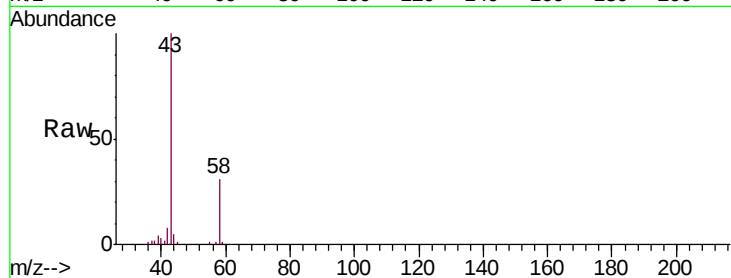
PB111513ZHE#10

Tot Ion: 43 Resp: 100689

Ion Ratio Lower Upper

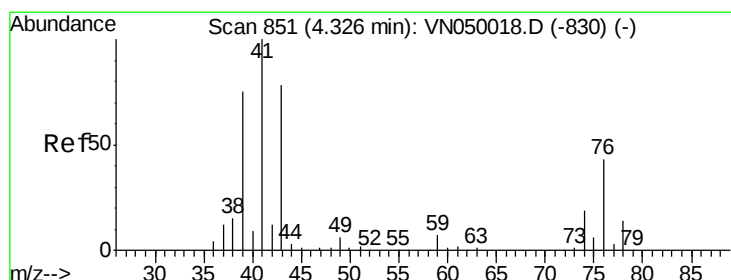
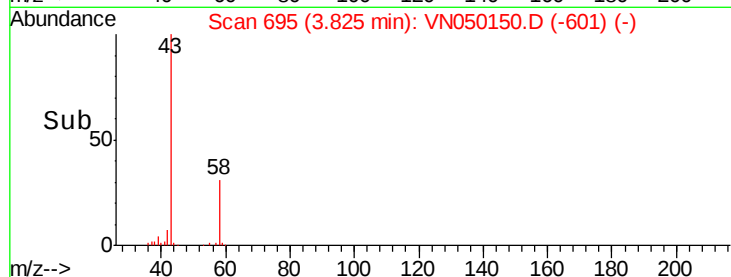
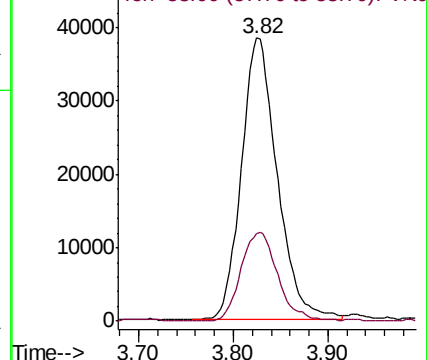
43 100

58 31.0 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: 4.01 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050150.D

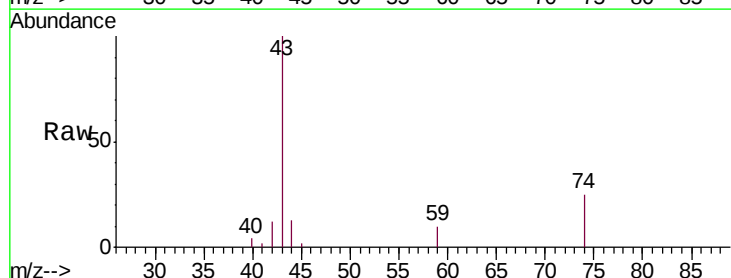
Acq: 27 Jul 2018 23:42

Tgt Ion: 43 Resp: 45023

Ion Ratio Lower Upper

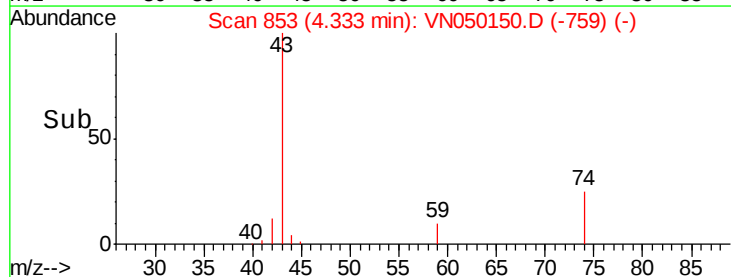
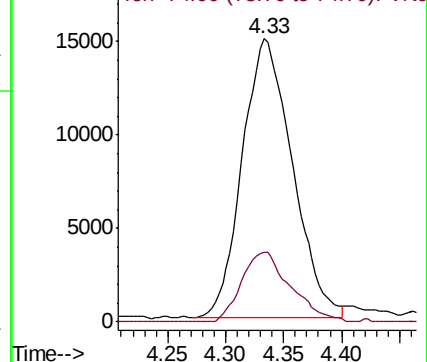
43 100

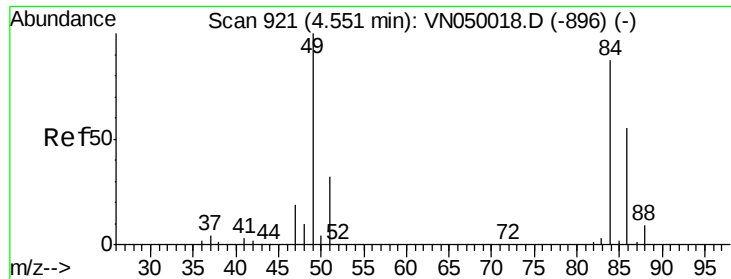
74 24.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



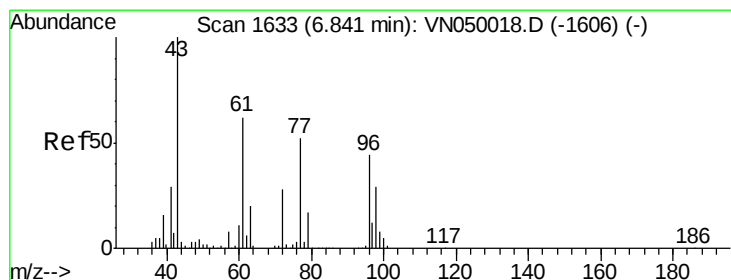
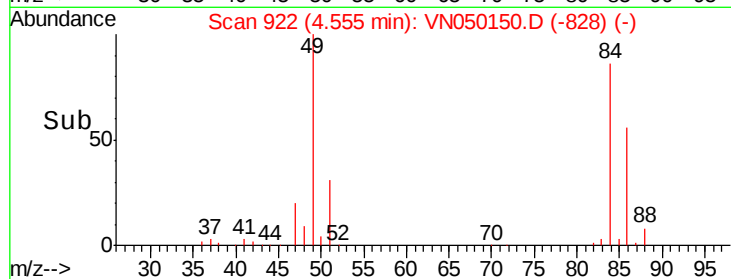
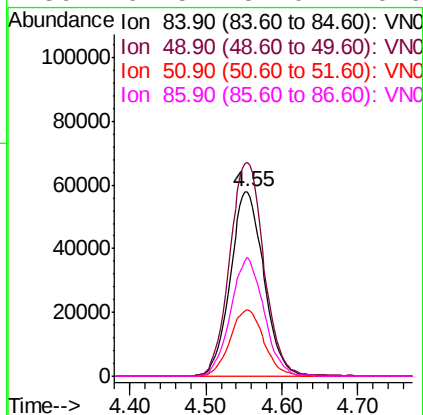
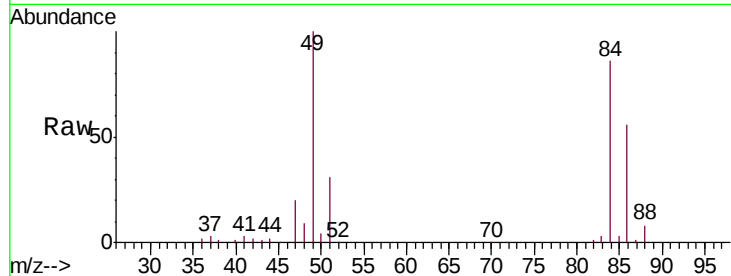


#20
Methvlene Chloride
Concen: 21.77 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050150.D
Acq: 27 Jul 2018 23:42

Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#10

Tot Ion: 84 Resp: 177623

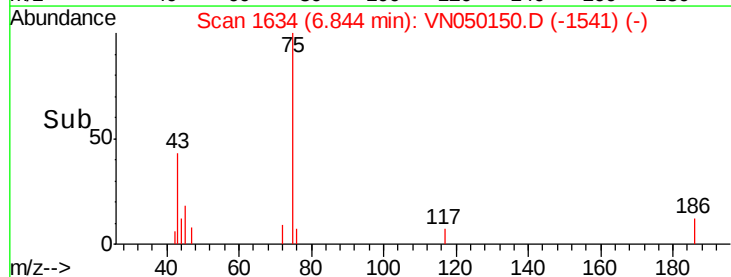
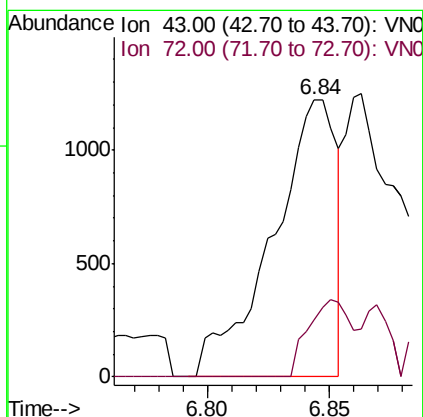
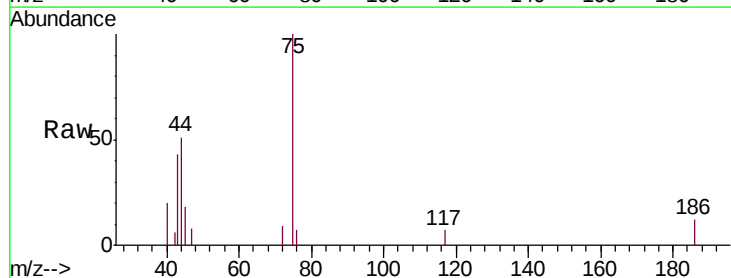
Ion	Ratio	Lower	Upper
84	100		
49	115.8	94.8	142.2
51	36.1	28.3	42.5
86	64.5	51.0	76.6

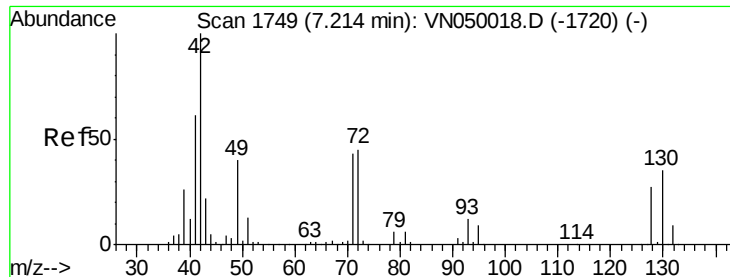


#25
2-Butanone
Concen: 0.65 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050150.D
Acq: 27 Jul 2018 23:42

Tgt Ion: 43 Resp: 2210

Ion	Ratio	Lower	Upper
43	100		
72	20.6	21.5	32.3#





#29

Tetrahydrofuran

Concen: 0.51 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#10

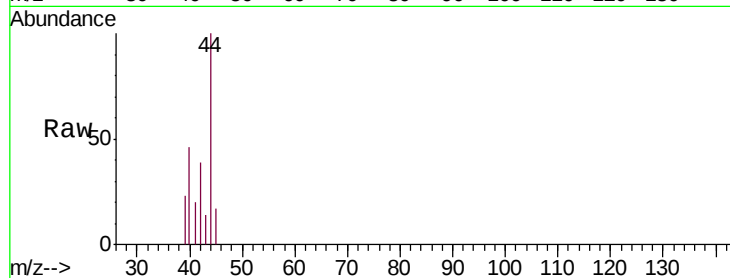
Tot Ion: 42 Resp: 1116

Ion Ratio Lower Upper

42 100

72 10.1 35.9 53.9#

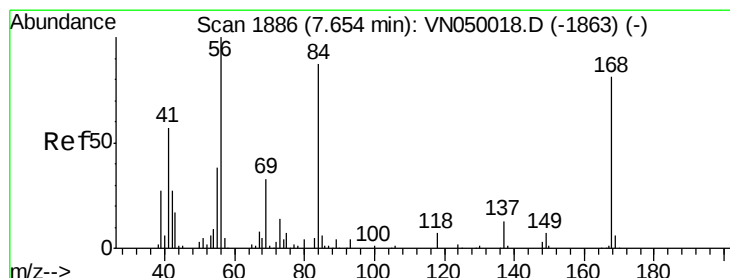
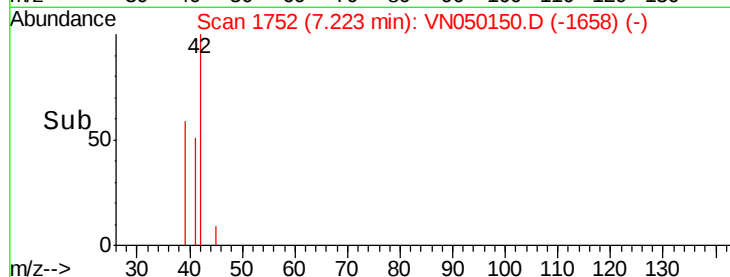
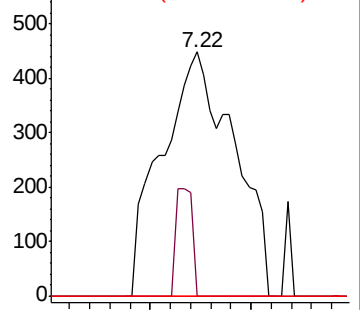
71 0.0 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

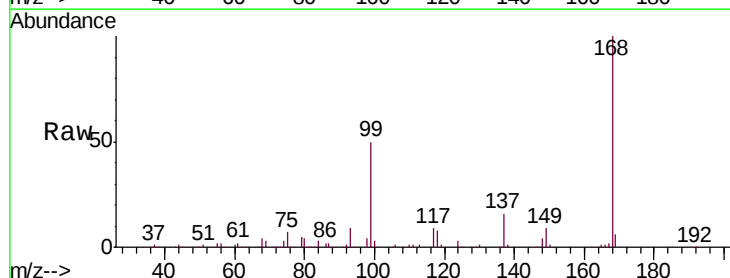
Tgt Ion: 56 Resp: 12414

Ion Ratio Lower Upper

56 100

69 183.5 26.2 39.4#

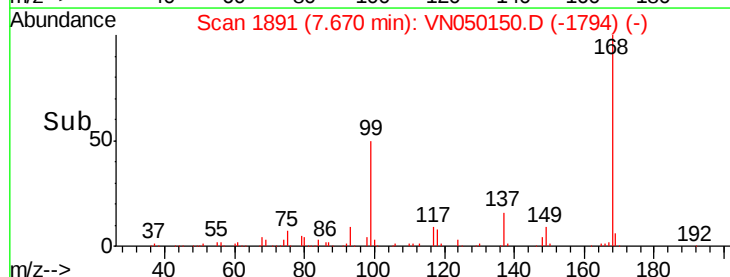
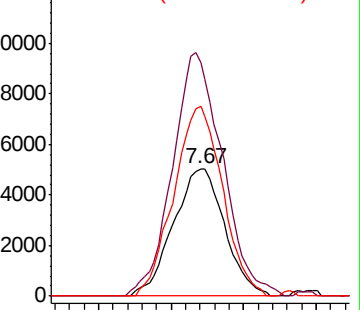
84 148.5 67.4 101.0#

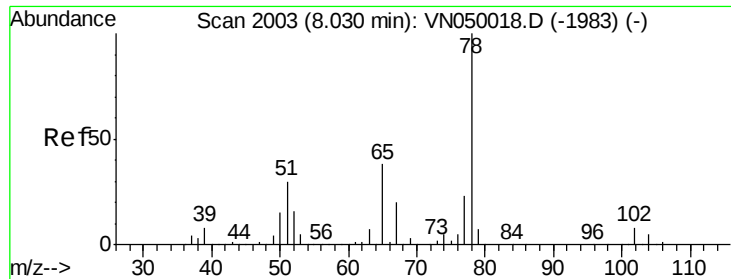


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

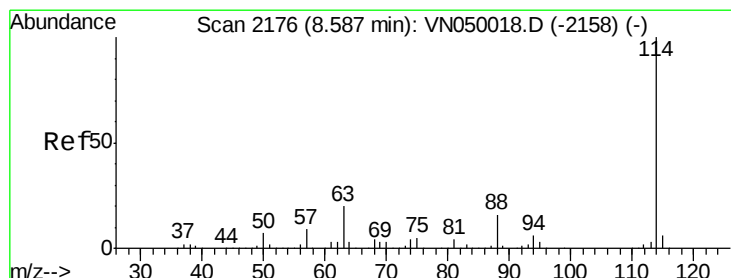
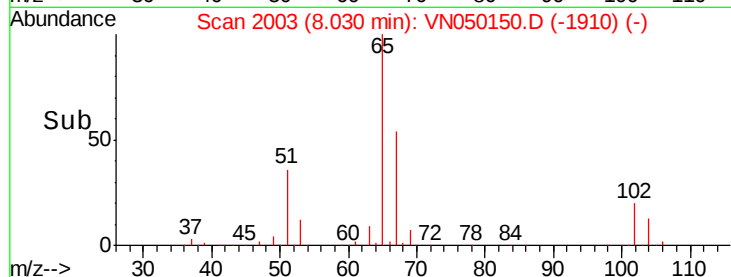
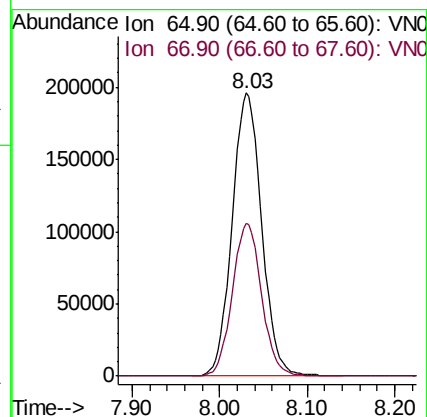
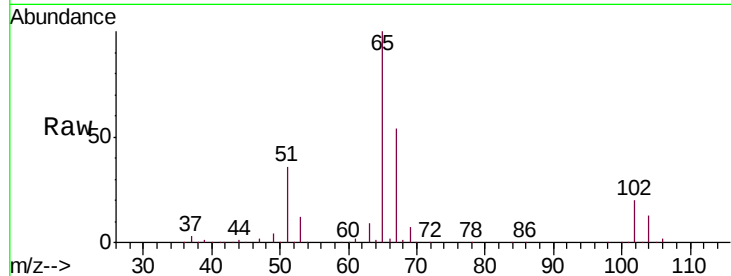




#33
 1,2-Dichloroethane-d4
 Concen: 51.52 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

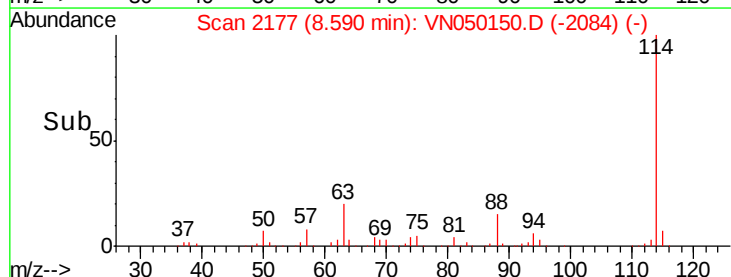
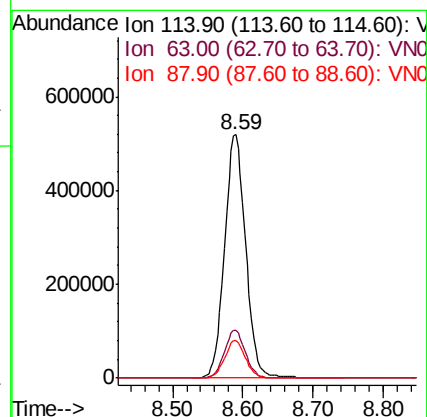
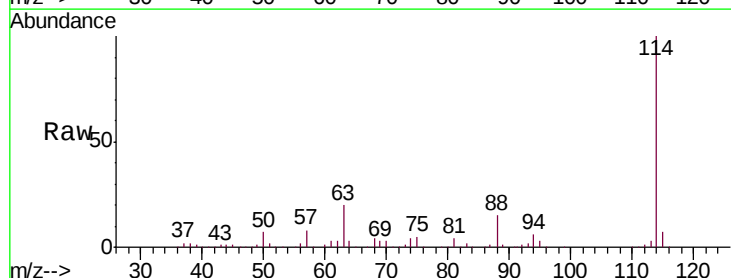
Instrument :
 MSVOA_N
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 PB111513ZHE#10

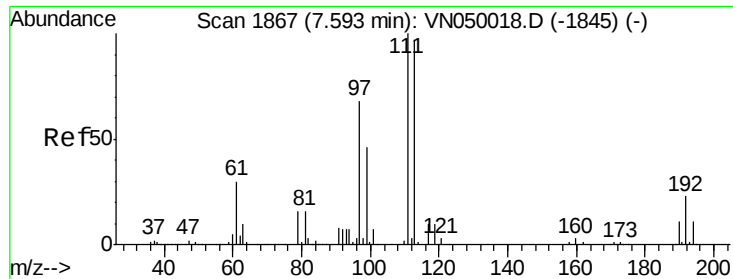
Tot Ion: 65 Resp: 459204
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

Tgt Ion: 114 Resp: 1082205
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.2 0.0 31.2

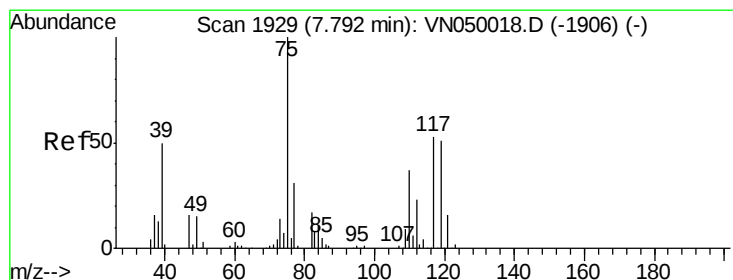
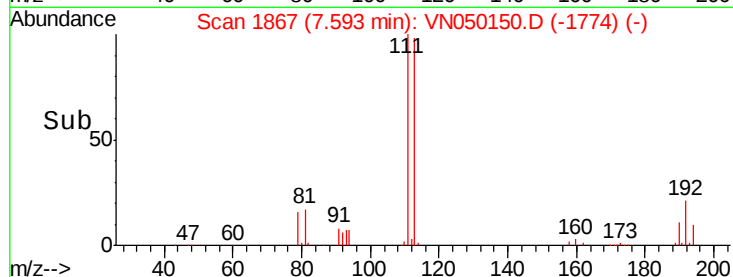
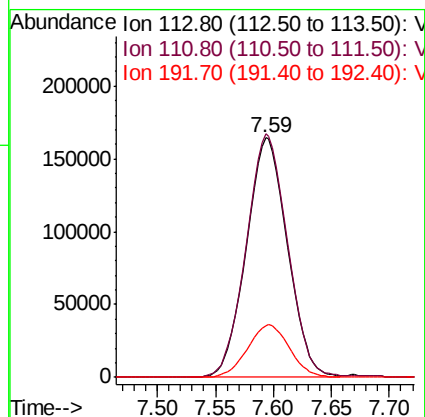
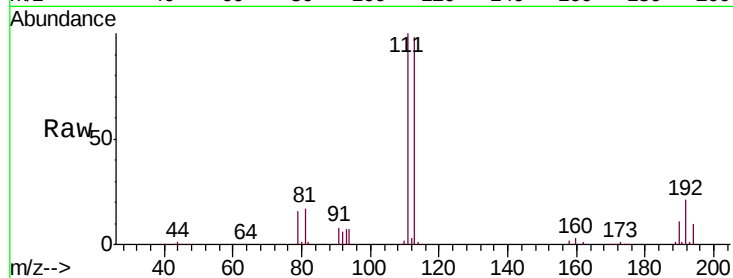




#35
 Dibromofluoromethane
 Concen: 45.99 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

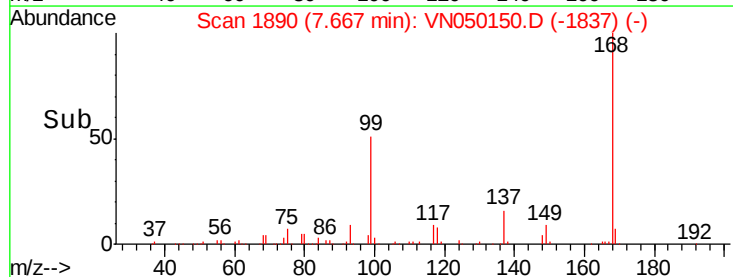
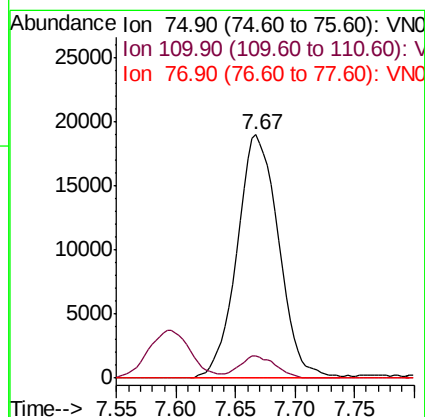
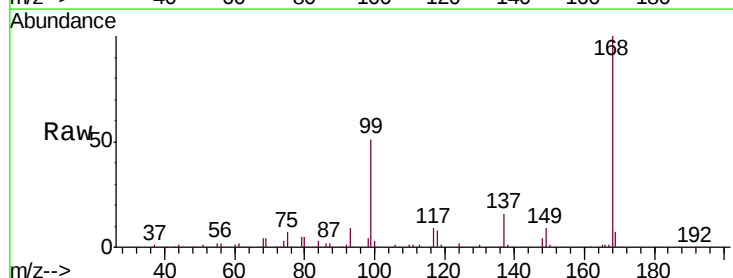
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#10

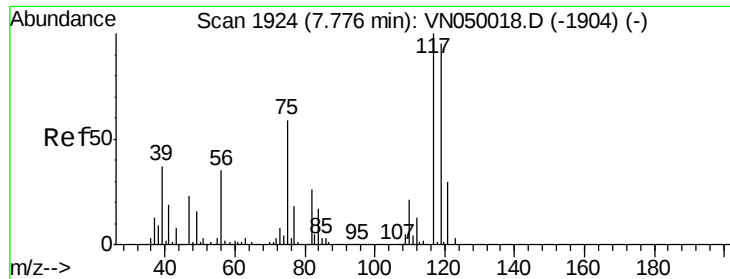
Tot Ion:113 Resp: 406373
 Ion Ratio Lower Upper
 113 100
 111 102.1 80.7 121.1
 192 22.3 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

Tgt Ion: 75 Resp: 45997
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.4 55.2#
 77 0.0 25.3 37.9#

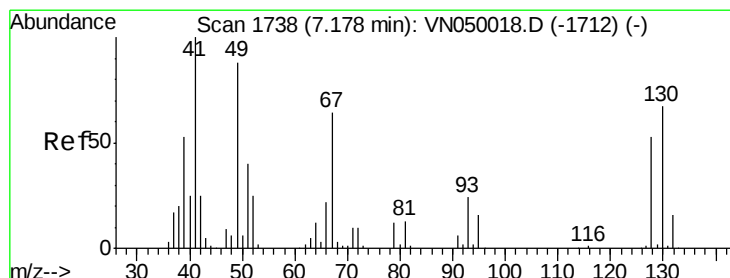
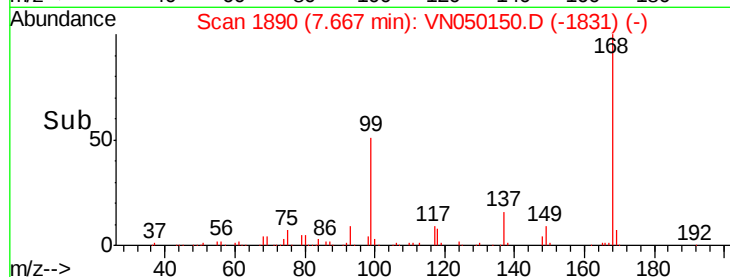
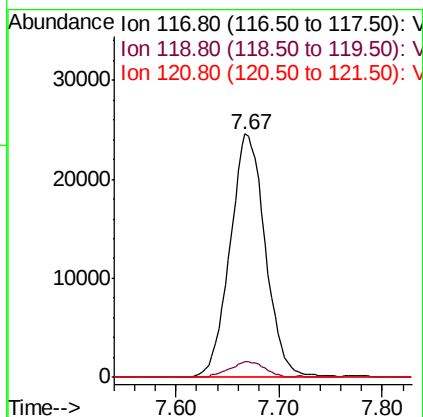
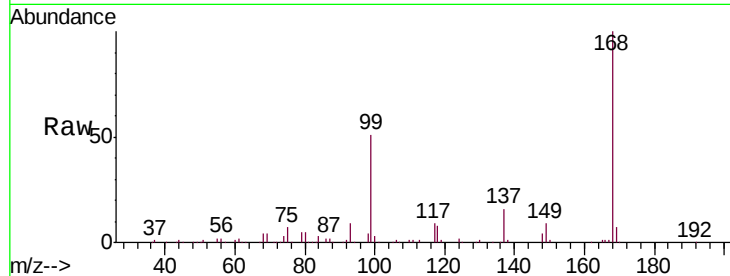




#38
Carbon Tetrachloride
Concen: 4.53 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050150.D
Acq: 27 Jul 2018 23:42

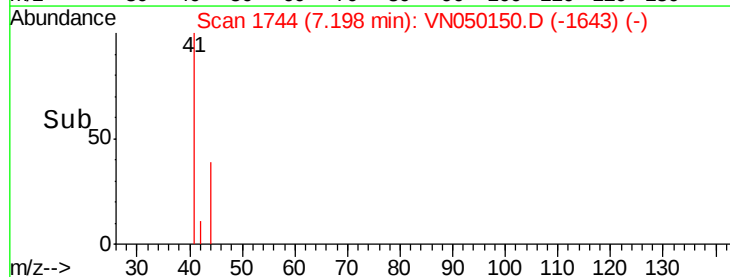
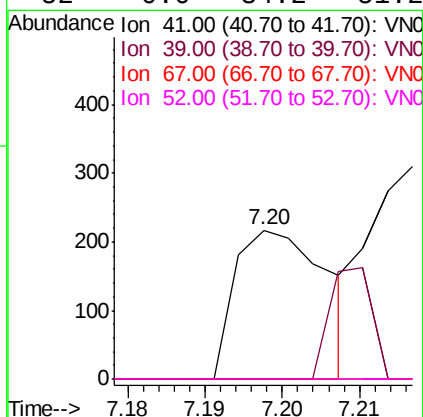
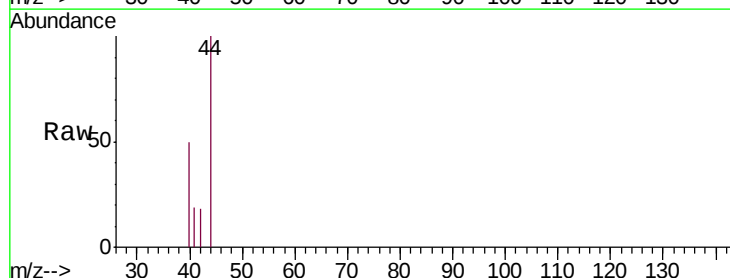
Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#10

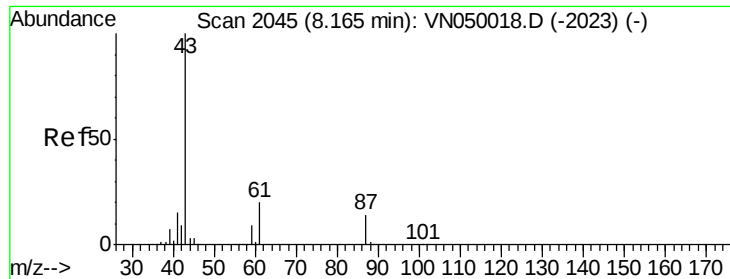
Tot Ion:117 Resp: 58596
Ion Ratio Lower Upper
117 100
119 6.4 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.79 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. 0.02 min
Lab File: VN050150.D
Acq: 27 Jul 2018 23:42

Tgt Ion: 41 Resp: 178
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



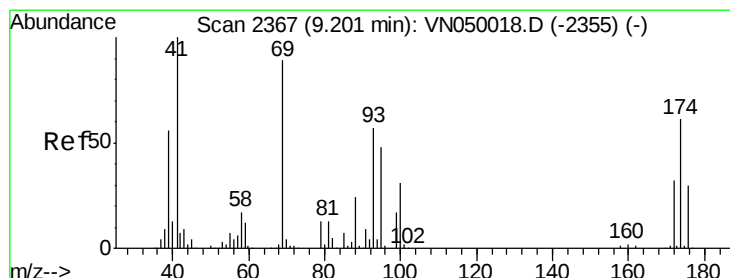
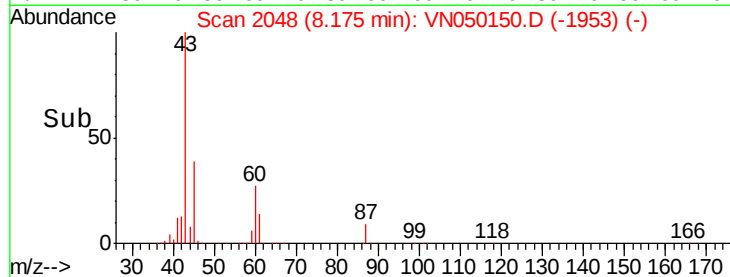
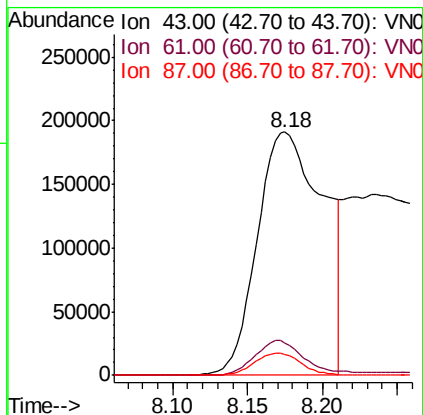
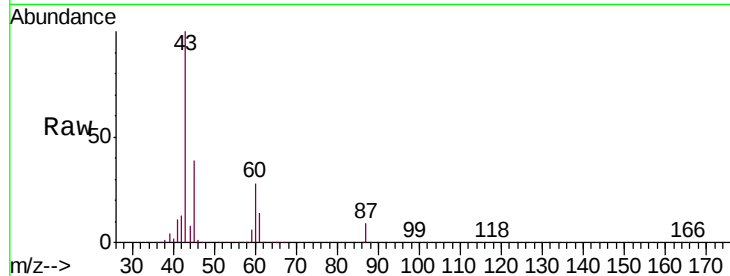


#43

Isopropyl Acetate
 Concen: 36.22 ug/l
 RT: 8.18 min Scan# 2048
 Delta R.T. 0.01 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#10

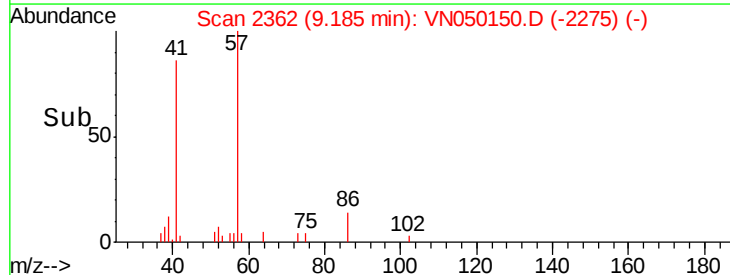
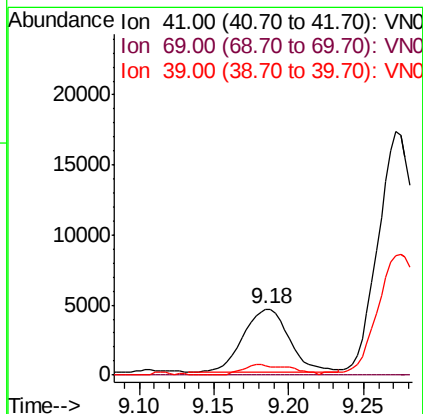
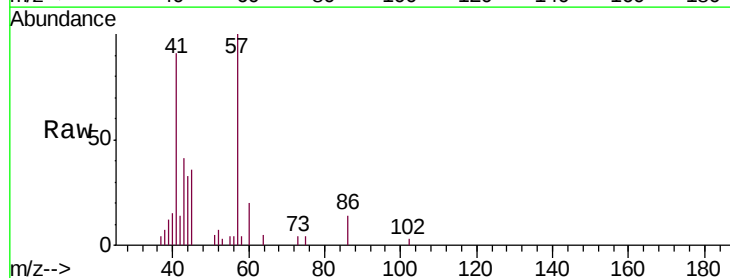
Tot Ion: 43 Resp: 585221
 Ion Ratio Lower Upper
 43 100
 61 11.1 15.8 23.6#
 87 6.5 10.3 15.5#

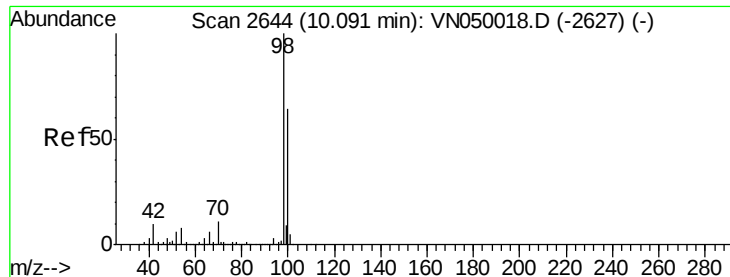


#48

Methyl methacrylate
 Concen: 1.35 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

Tgt Ion: 41 Resp: 9856
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.6 105.8#
 39 17.4 43.9 65.9#





#50

Toluene-d8

Concen: 44.76 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

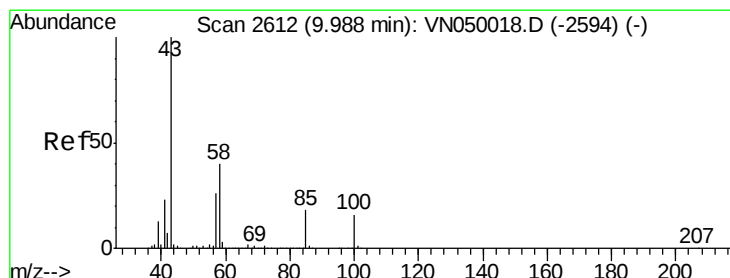
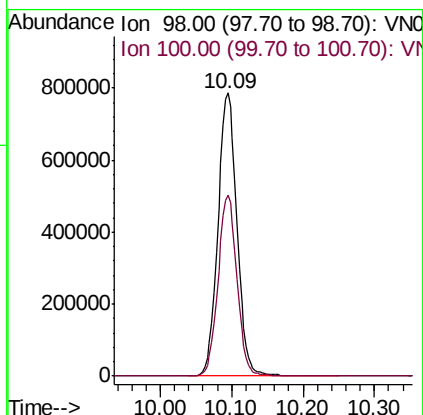
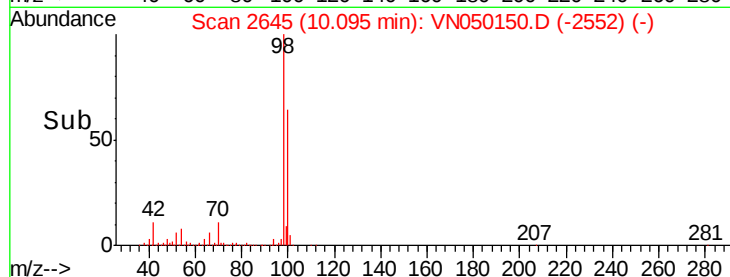
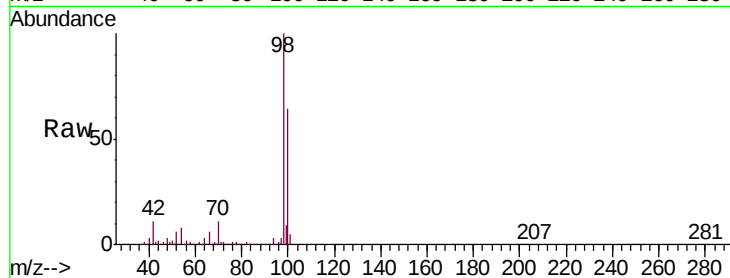
PB111513ZHE#10

Tot Ion: 98 Resp: 1453992

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.31 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN050150.D

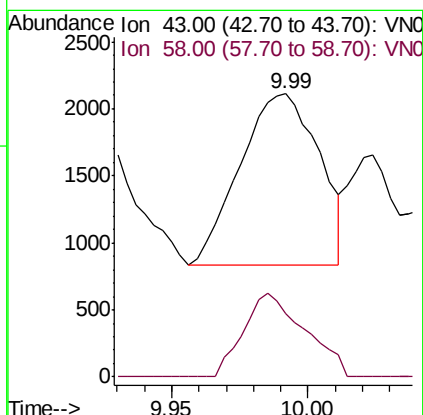
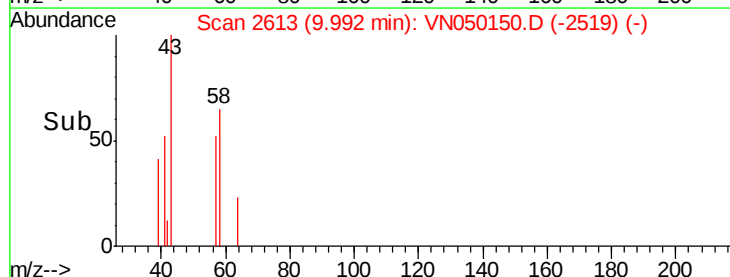
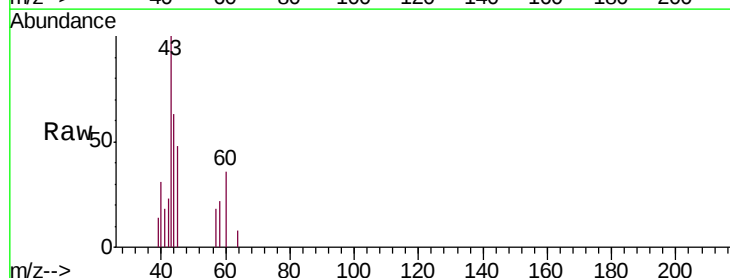
Acq: 27 Jul 2018 23:42

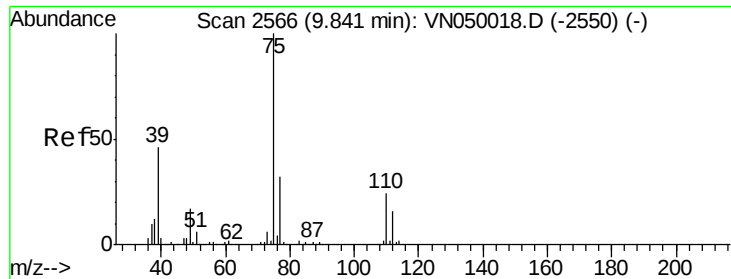
Tgt Ion: 43 Resp: 2572

Ion Ratio Lower Upper

43 100

58 37.8 31.9 47.9

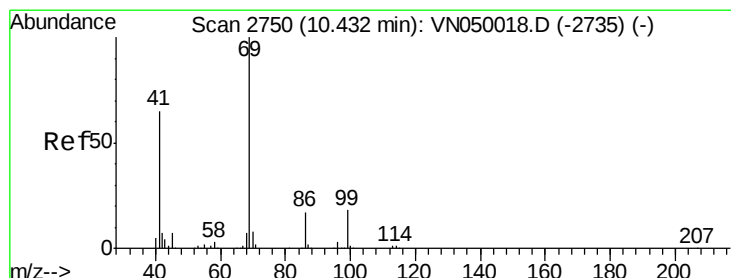
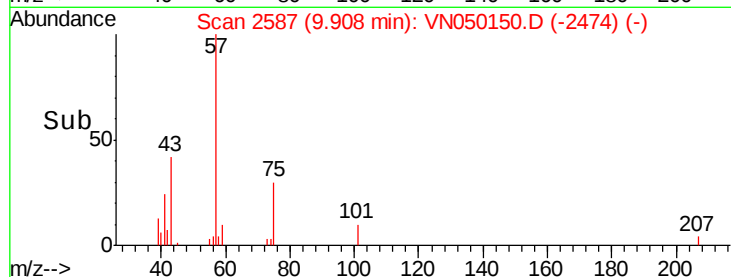
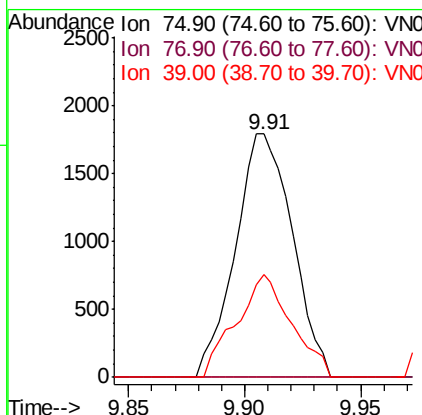
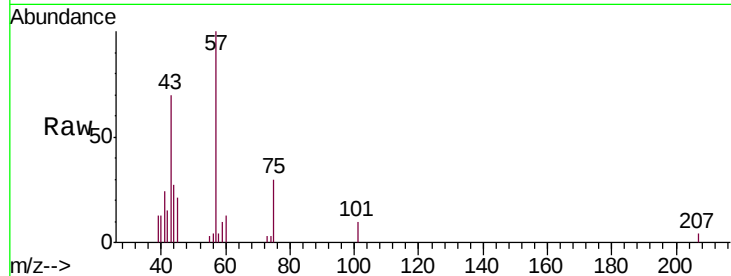




#54
 cis-1,3-Dichloropropene
 Concen: 0.22 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.06 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

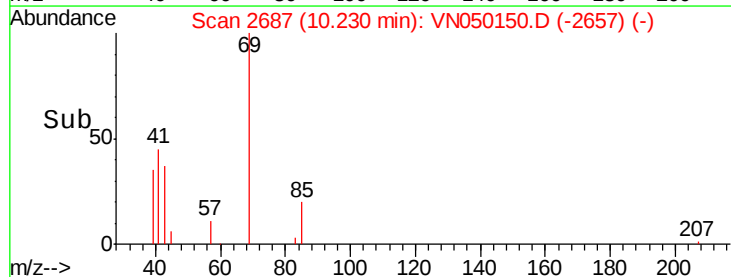
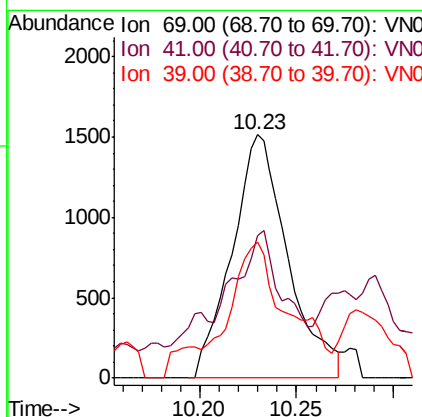
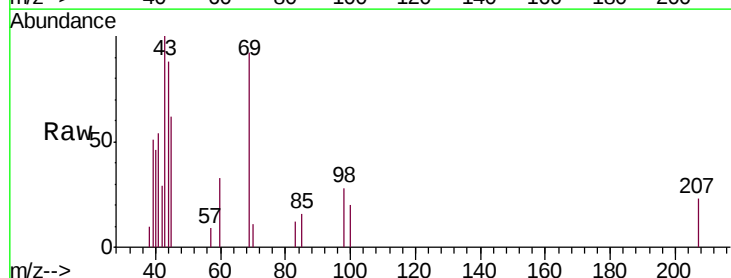
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#10

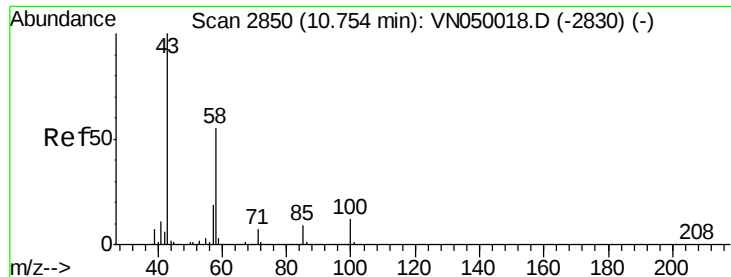
Tot Ion: 75 Resp: 3057
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 42.3 36.6 55.0



#56
 Ethyl methacrylate
 Concen: 2.28 ug/l
 RT: 10.23 min Scan# 2687
 Delta R.T. -0.20 min
 Lab File: VN050150.D
 Acq: 27 Jul 2018 23:42

Tgt Ion: 69 Resp: 3041
 Ion Ratio Lower Upper
 69 100
 41 28.6 51.0 76.4#
 39 65.6 26.6 40.0#





#59

2-Hexanone

Concen: 8.96 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

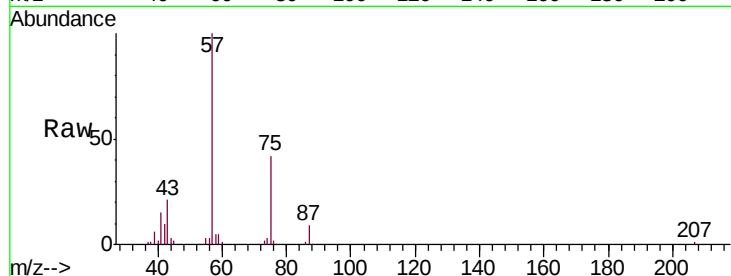
PB111513ZHE#10

Tot Ion: 43 Resp: 23763

Ion Ratio Lower Upper

43 100

58 24.2 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

25000

20000

15000

10000

5000

0

Time-->

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

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12.55

12.60

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12.70

12.75

12.80

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12.90

12.95

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13.75

13.80

13.85

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14.90

14.95

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15.60

15.65

15.70

15.75

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

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16.35

16.40

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16.50

16.55

16.60

16.65

16.70

16.75

16.80

16.85

16.90

16.95

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17.05

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17.70

17.75

17.80

17.85

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20.80

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21.00

21.05

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21.80

21.85

21.90

21.95

22.00

22.05

22.10

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22.65

22.70

22.75

22.80

22.85

22.90

22.95

23.00

23.05

23.10

23.15

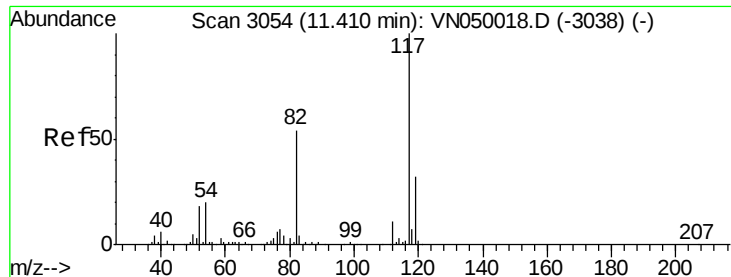
23.20

23.25

23.30

23.35

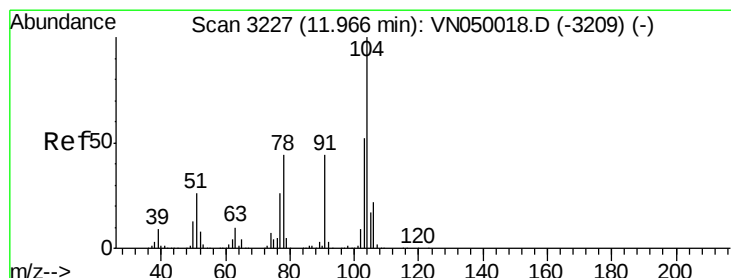
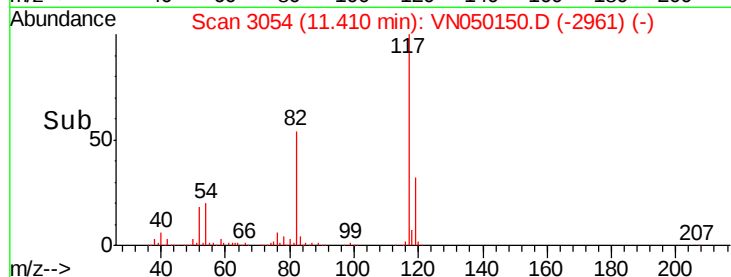
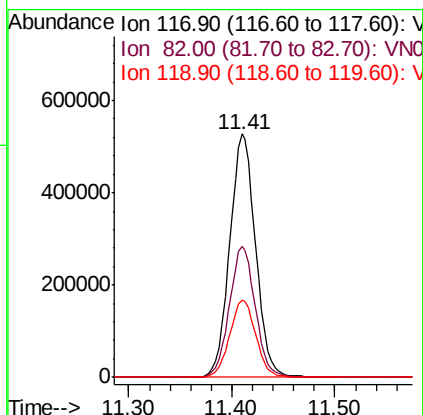
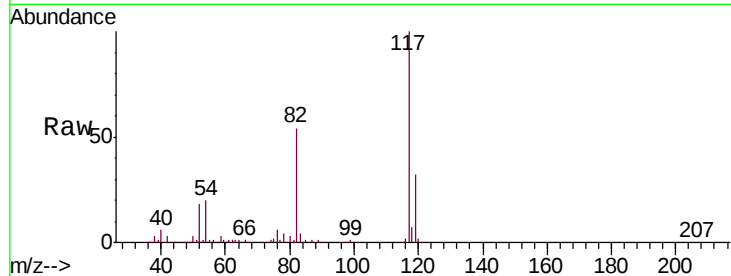
23.40



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050150.D
Acq: 27 Jul 2018 23:42

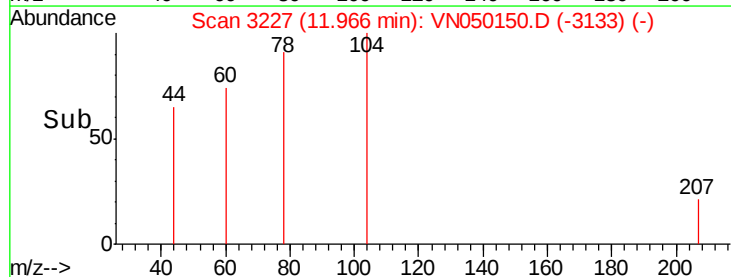
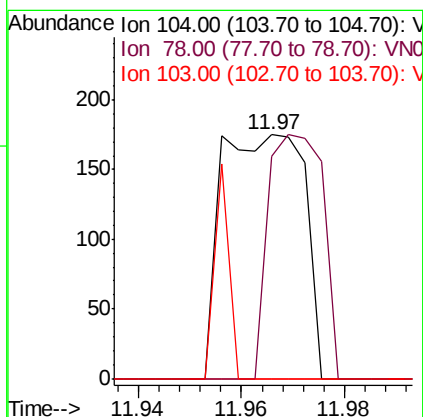
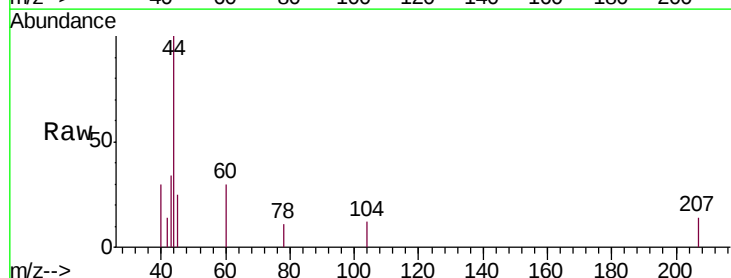
Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#10

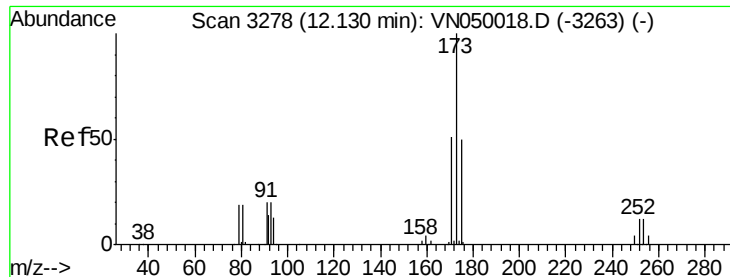
Tot Ion:117 Resp: 918736
Ion Ratio Lower Upper
117 100
82 54.0 43.7 65.5
119 31.9 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050150.D
Acq: 27 Jul 2018 23:42

Tgt Ion:104 Resp: 194
Ion Ratio Lower Upper
104 100
78 66.0 39.3 58.9#
103 15.5 45.0 67.6#





#71

Bromoform

Concen: 0.37 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#10

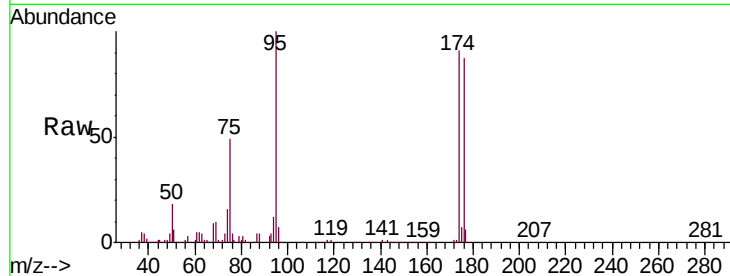
Tot Ion:173 Resp: 2427

Ion Ratio Lower Upper

173 100

175 948.1 24.1 72.2#

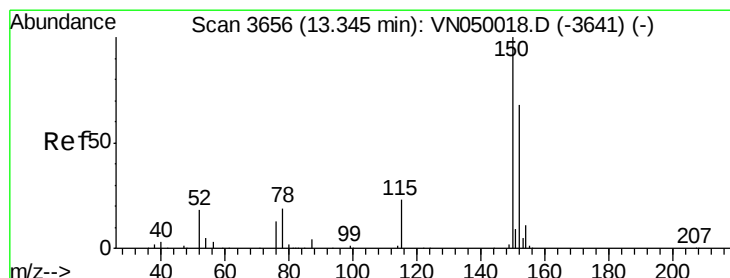
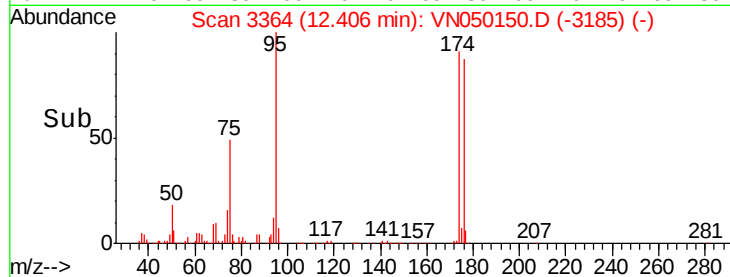
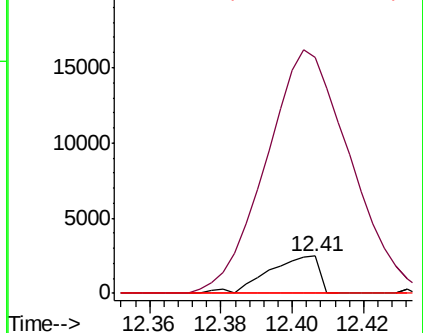
254 0.0 0.2 0.2#



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# 3657

Delta R.T. 0.00 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

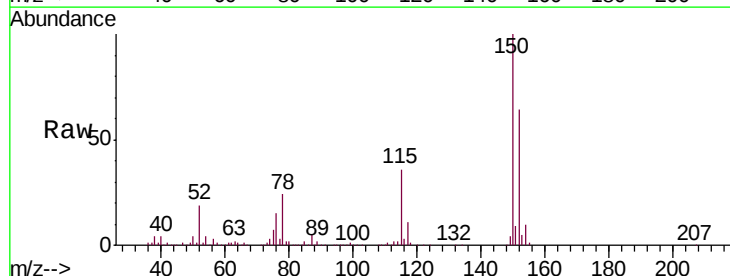
Tgt Ion:152 Resp: 332426

Ion Ratio Lower Upper

152 100

115 57.0 27.8 83.3

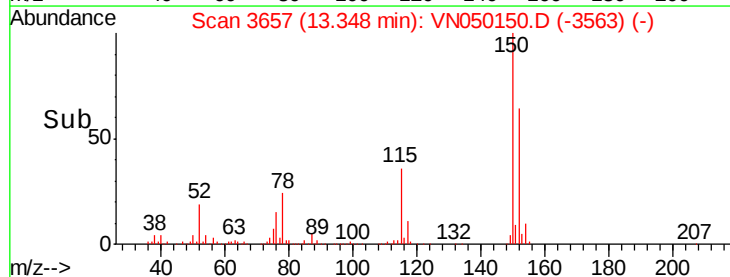
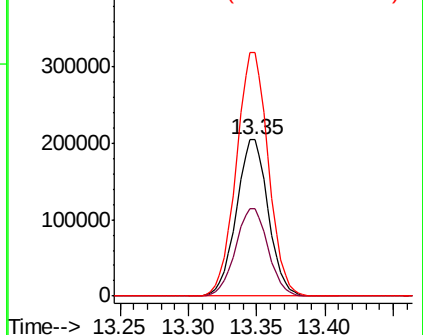
150 156.7 0.0 348.6

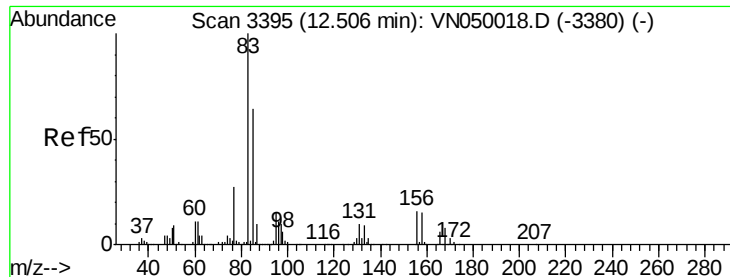


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#10

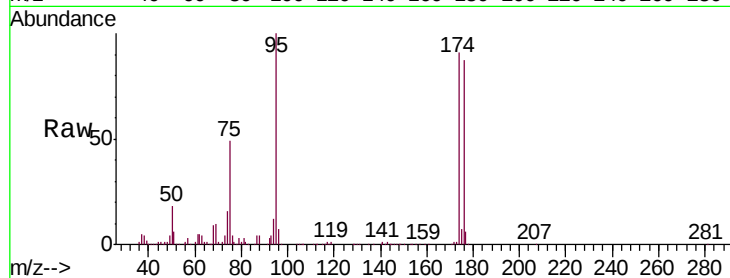
Tot Ion: 83 Resp: 165

Ion Ratio Lower Upper

83 100

131 341.8 5.1 15.3#

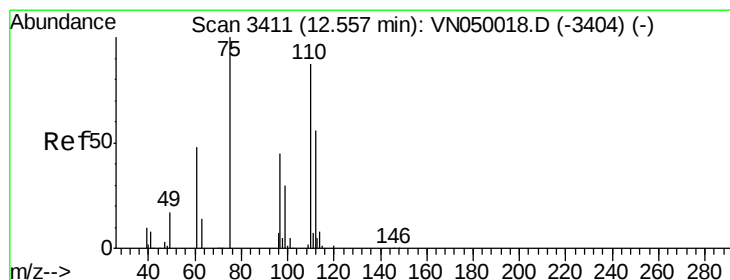
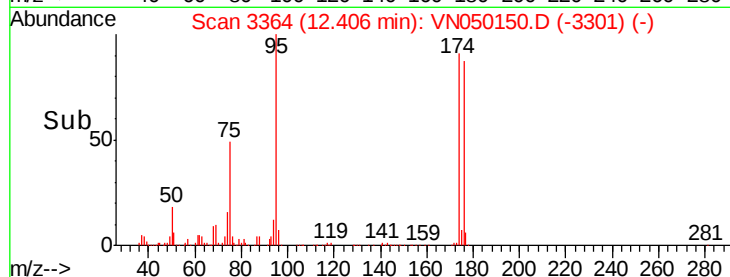
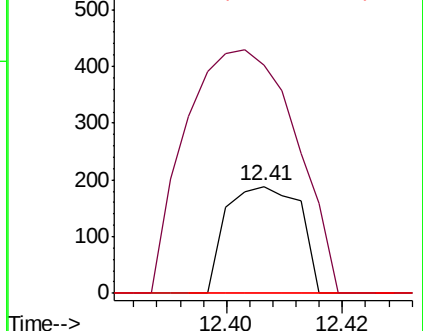
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 32.88 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050150.D

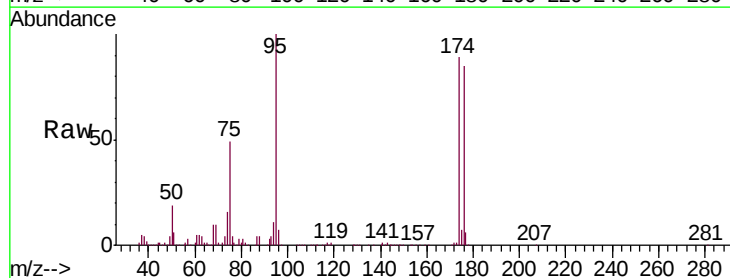
Acq: 27 Jul 2018 23:42

Tgt Ion: 75 Resp: 203113

Ion Ratio Lower Upper

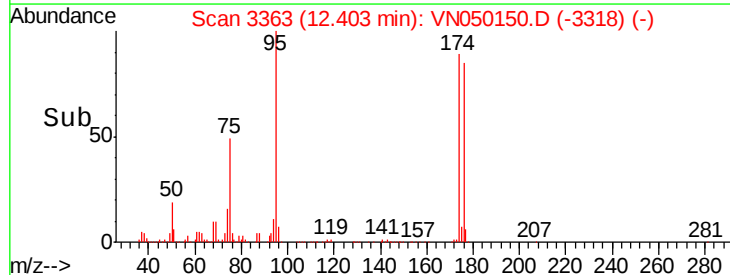
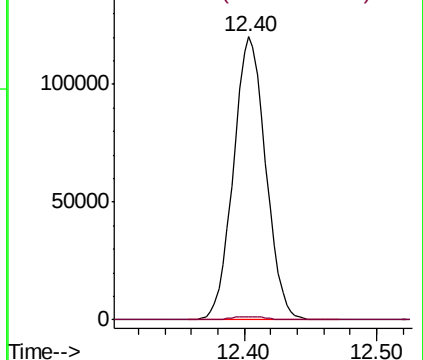
75 100

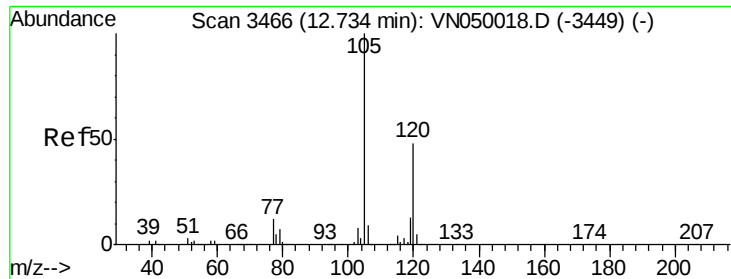
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

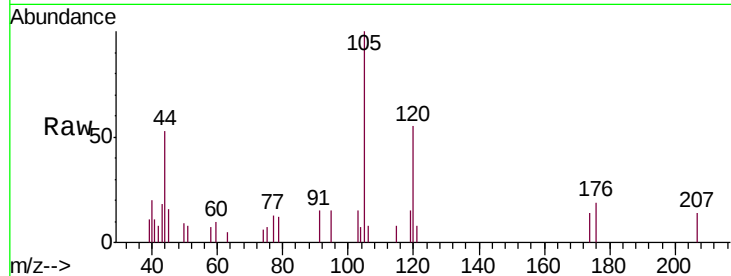
PB111513ZHE#10

Tot Ion:105 Resp: 4471

Ion Ratio Lower Upper

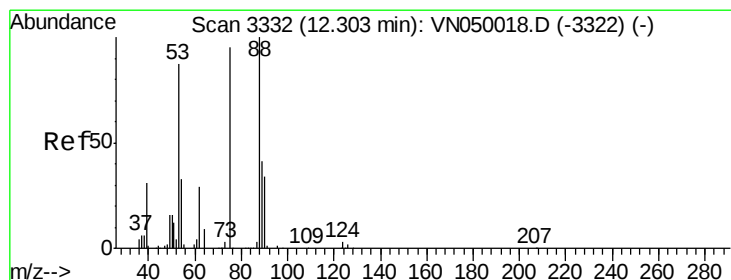
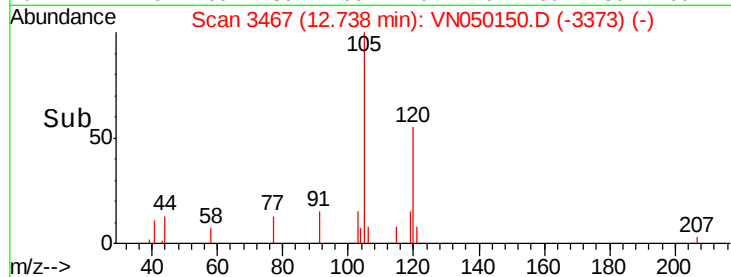
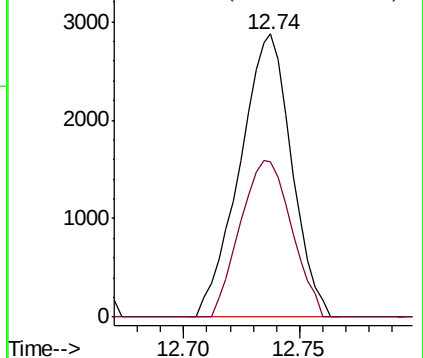
105 100

120 54.9 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 104.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

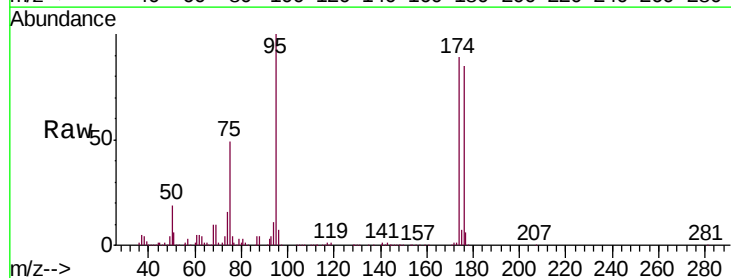
Tgt Ion: 75 Resp: 203113

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

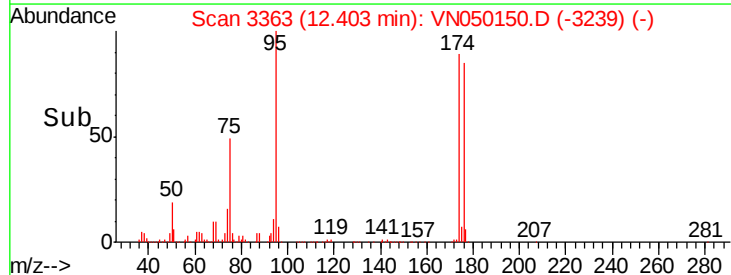
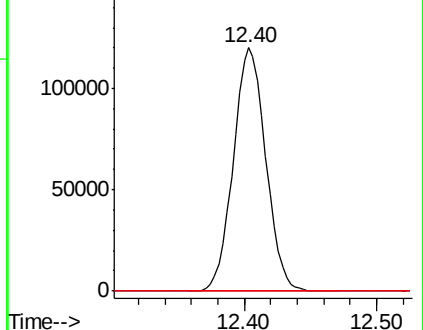
89 0.0 36.0 54.0#

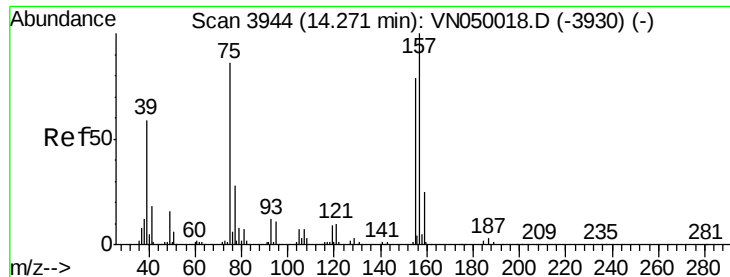


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#10

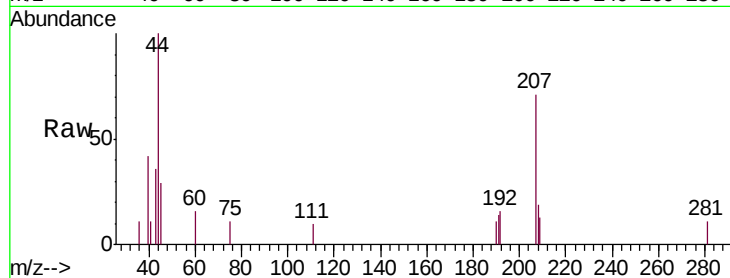
Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

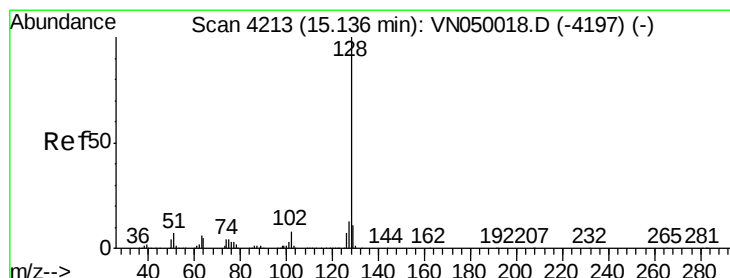
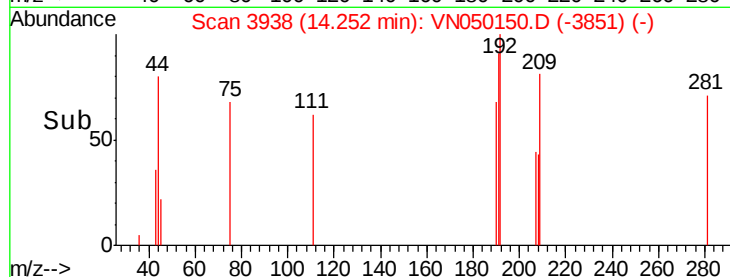
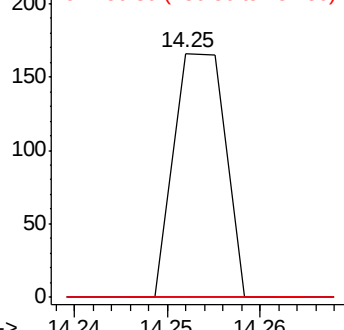
157 0.0 57.2 171.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 4.53 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050150.D

Acq: 27 Jul 2018 23:42

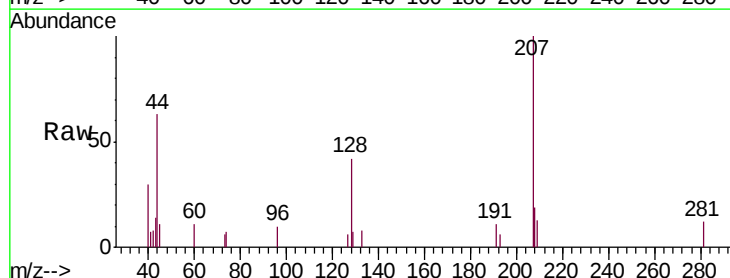
Tgt Ion: 128 Resp: 1874

Ion Ratio Lower Upper

128 100

127 7.8 10.4 15.6#

129 13.3 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

