

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050537.D
 Acq On : 11 Aug 2018 00:02
 Operator : MD\SY
 Sample : PB111921ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#11

Quant Time: Aug 11 04:59:34 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	631582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1041815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	893115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	328941	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	437754	51.88	ug/l	0.00
Spiked Amount			Recovery	=	103.76%	
35) Dibromofluoromethane	7.59	113	404202	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	10.09	98	1422460	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	
62) 4-Bromofluorobenzene	12.40	95	388759	36.29	ug/l	0.00
Spiked Amount			Recovery	=	72.58%	

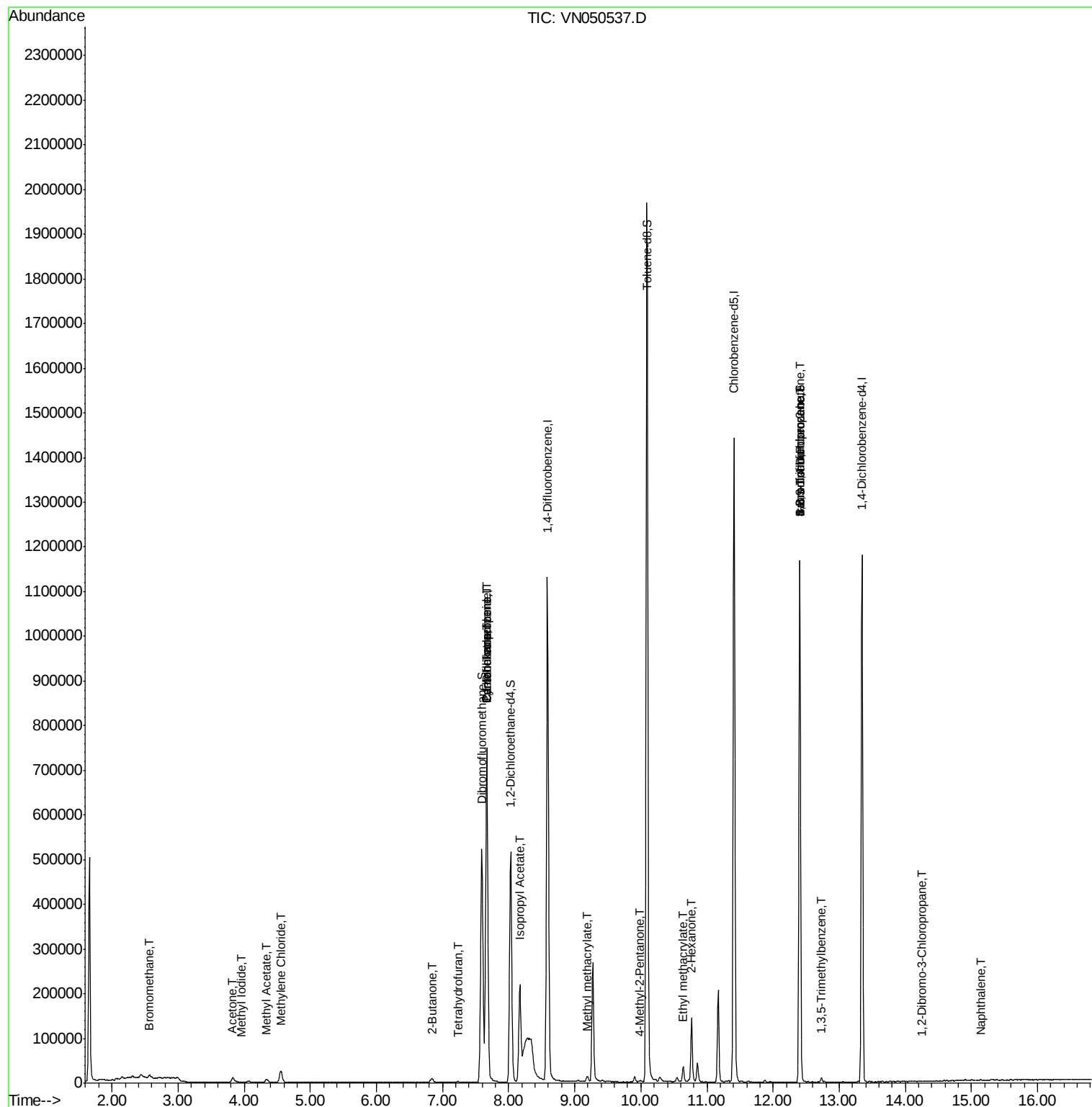
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2893	Below Cal		95
5) Bromomethane	2.57	94	4302	1.14 ug/l		96
10) Methyl Iodide	3.95	142	826	0.26 ug/l #		72
16) Acetone	3.82	43	18800	7.12 ug/l		99
18) Methyl Acetate	4.33	43	12815	1.77 ug/l		94
20) Methylene Chloride	4.56	84	19940	1.07 ug/l		87
25) 2-Butanone	6.85	43	4322	1.03 ug/l #		88
29) Tetrahydrofuran	7.22	42	1877	0.84 ug/l #		79
31) Cyclohexane	7.67	56	11287	0.31 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	44495	3.89 ug/l #		47
38) Carbon Tetrachloride	7.67	117	56892	4.76 ug/l #		17
43) Isopropyl Acetate	8.17	43	267698	18.81 ug/l		98
48) Methyl methacrylate	9.18	41	8004	1.12 ug/l #		18
51) 4-Methyl-2-Pentanone	9.99	43	2599	0.25 ug/l #		82
56) Ethyl methacrylate	10.64	69	620	1.76 ug/l #		1
59) 2-Hexanone	10.77	43	19647	2.75 ug/l #		59
71) Bromoform	12.40	173	3708	0.62 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	187015	31.41 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.73	105	4597	0.23 ug/l		99
81) trans-1,4-Dichloro-2-buten	12.40	75	187015	110.36 ug/l #		13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	331	0.27 ug/l #		1
94) Hexachlorobutadiene	15.01	225	251	Below Cal		72
95) Naphthalene	15.14	128	2160	3.75 ug/l #		74

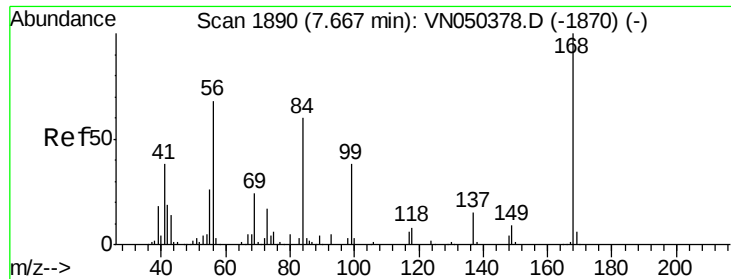
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

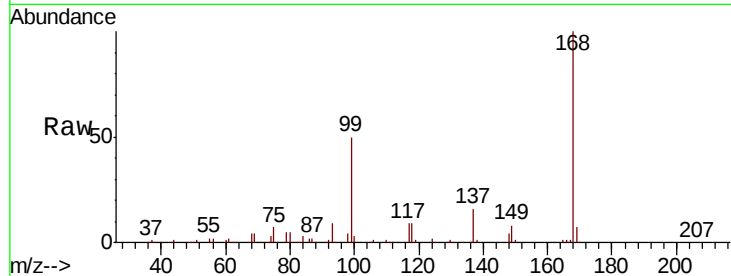
PB111921ZHE#11

Tot Ion:168 Resp: 631582

Ion Ratio Lower Upper

168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

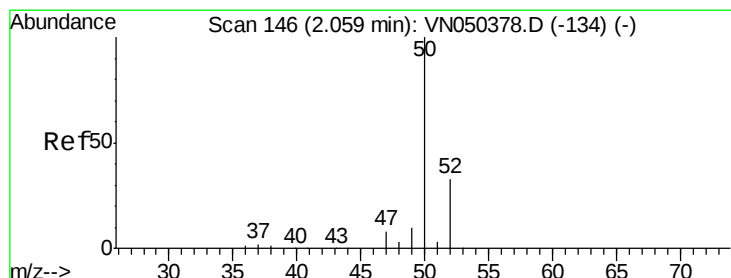
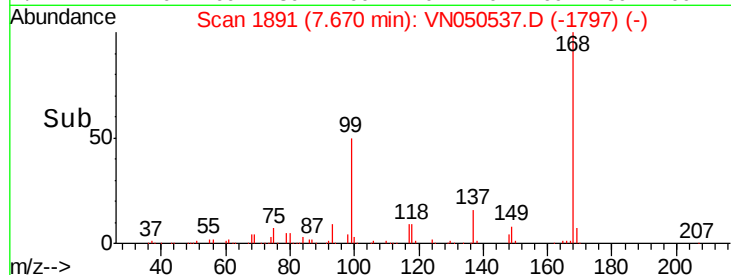
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050537.D

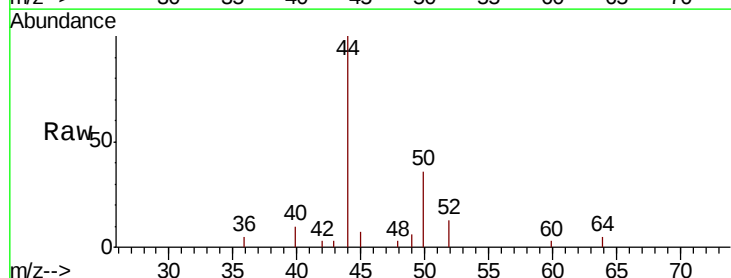
Acq: 11 Aug 2018 00:02

Tgt Ion: 50 Resp: 2893

Ion Ratio Lower Upper

50 100

52 34.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

2000

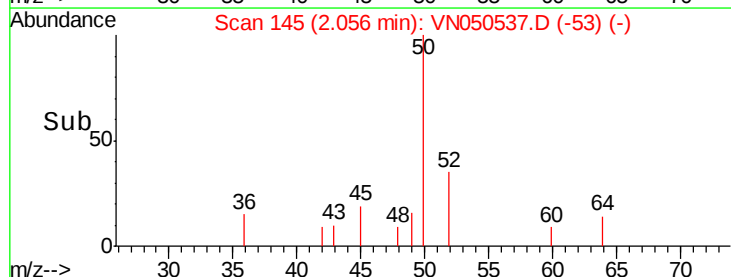
1500

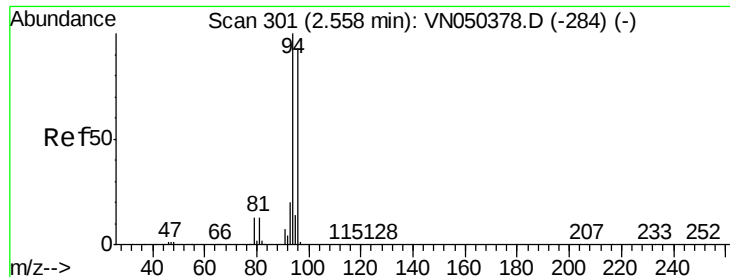
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: 1.14 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

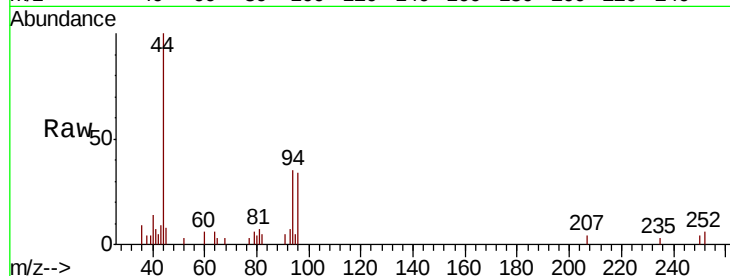
PB111921ZHE#11

Tot Ion: 94 Resp: 4302

Ion Ratio Lower Upper

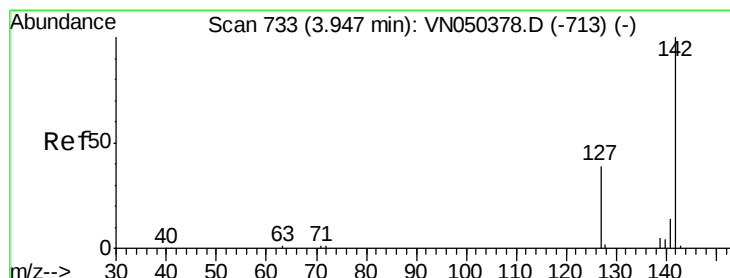
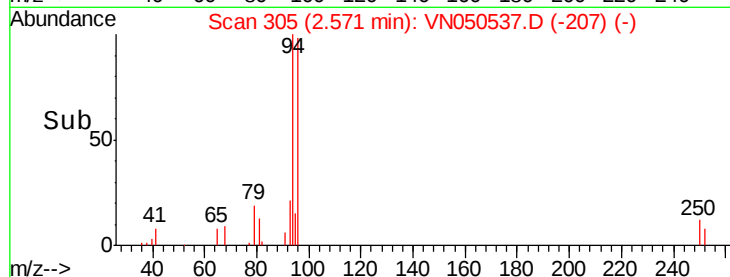
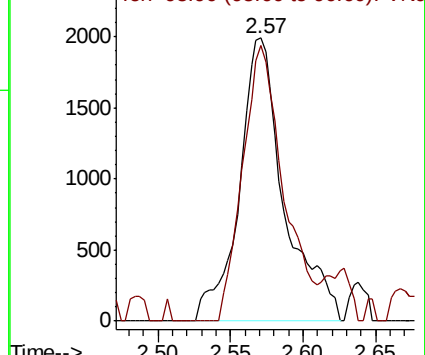
94 100

96 97.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.26 ug/l

RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

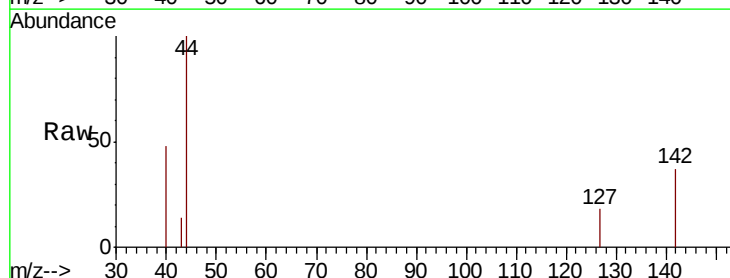
Tgt Ion: 142 Resp: 826

Ion Ratio Lower Upper

142 100

127 25.3 33.4 50.2#

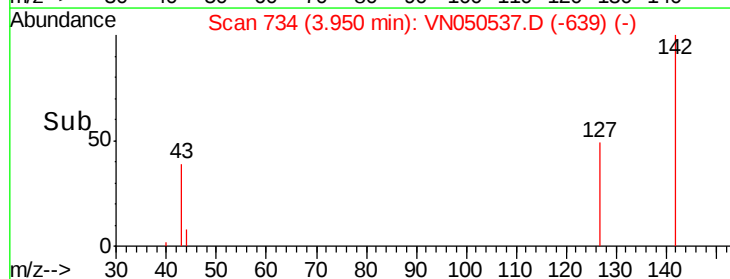
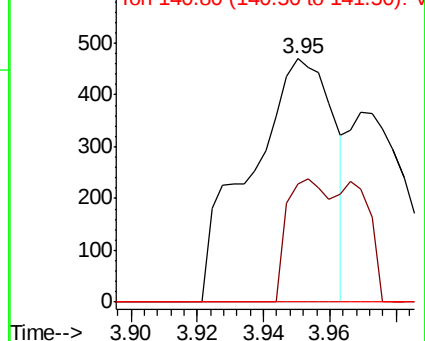
141 0.0 11.6 17.4#

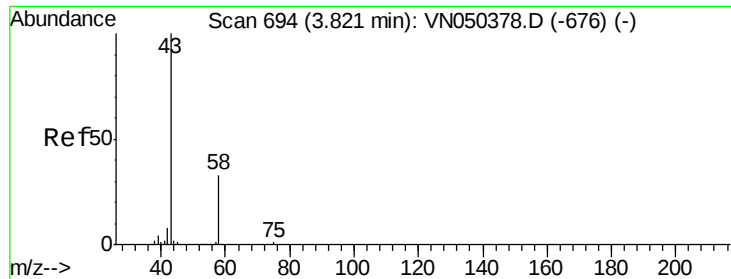


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 7.12 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

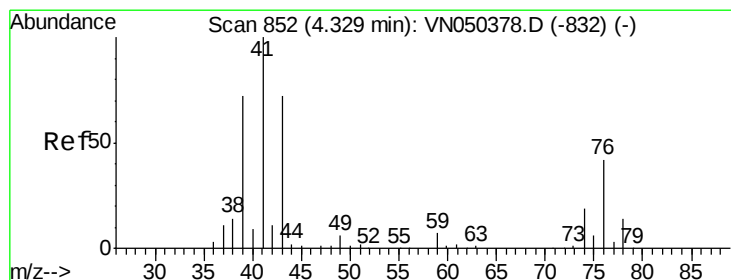
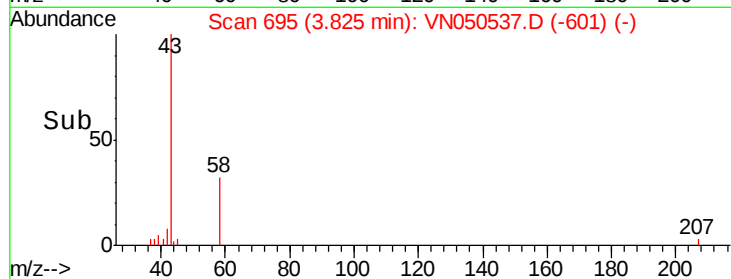
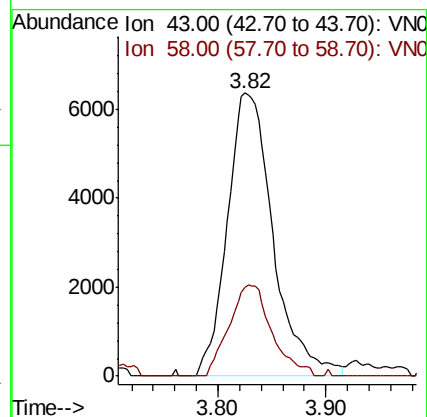
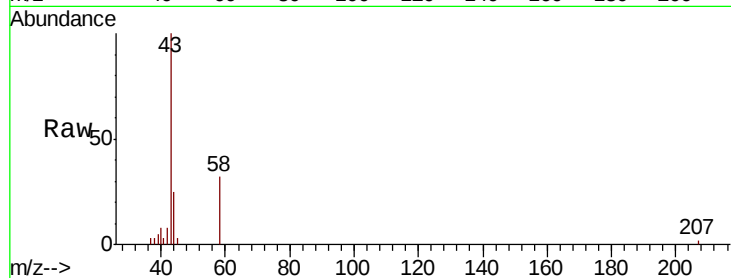
PB111921ZHE#11

Tot Ion: 43 Resp: 18800

Ion Ratio Lower Upper

43 100

58 31.6 25.8 38.8



#18

Methyl Acetate

Concen: 1.77 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050537.D

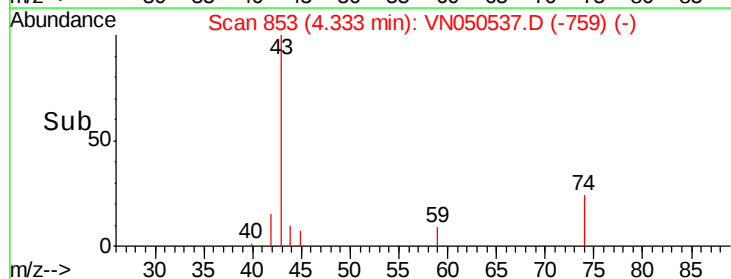
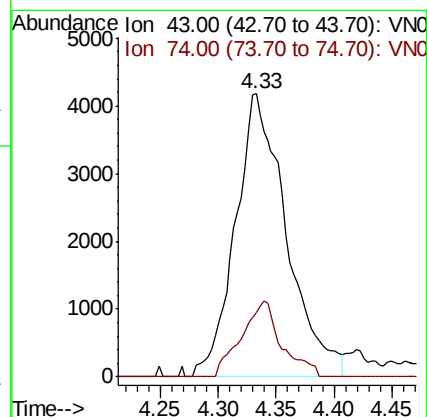
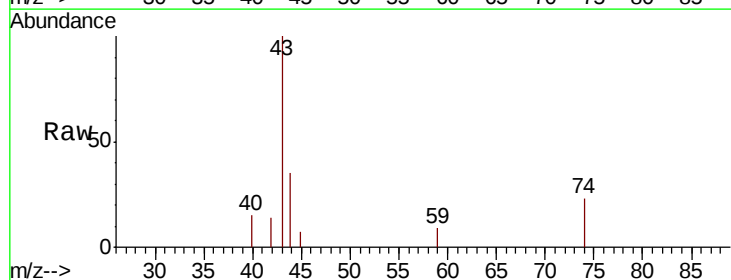
Acq: 11 Aug 2018 00:02

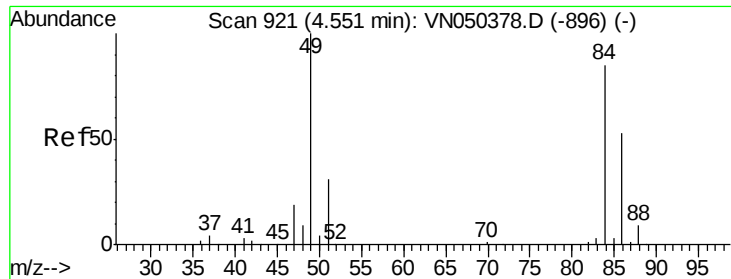
Tgt Ion: 43 Resp: 12815

Ion Ratio Lower Upper

43 100

74 21.1 19.2 28.8

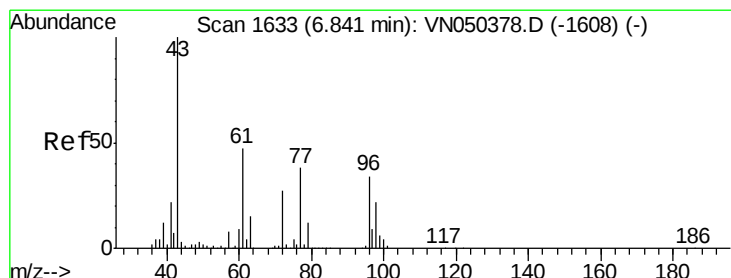
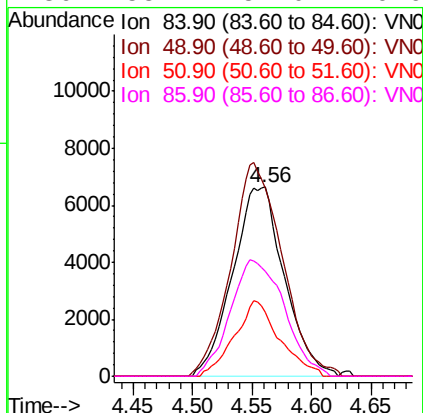
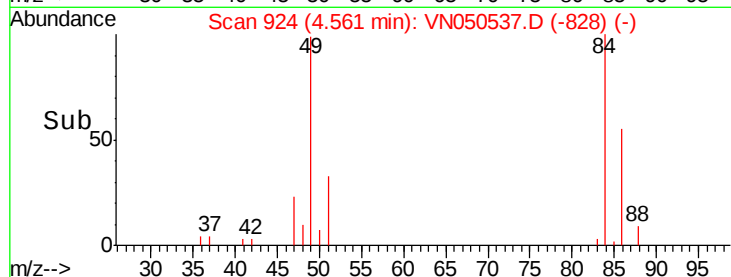
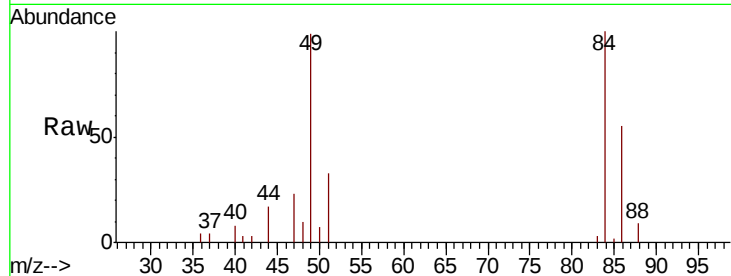




#20
Methvlene Chloride
Concen: 1.07 ug/l
RT: 4.56 min Scan# 924
Delta R.T. 0.01 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

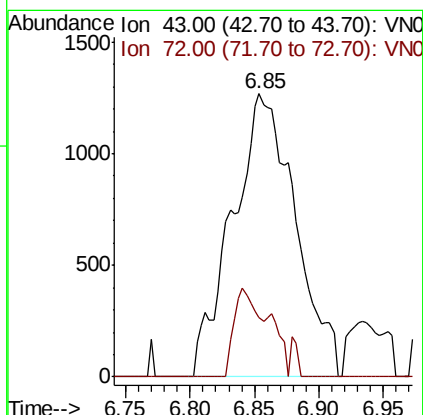
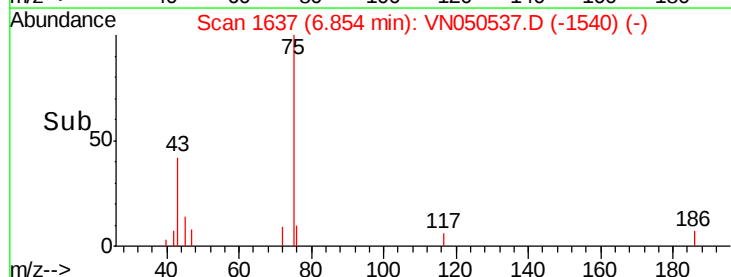
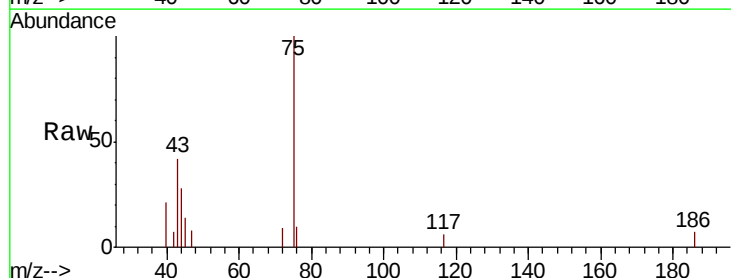
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#11

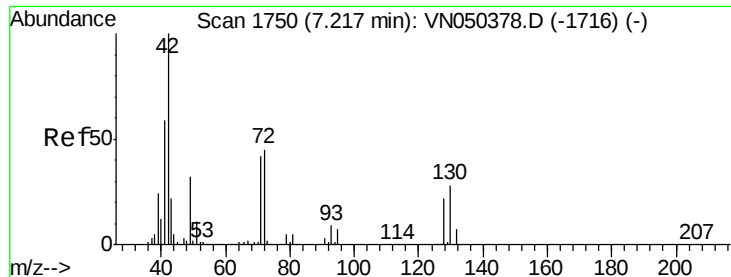
Tot Ion:	84	Resp:	19940
Ion	Ratio	Lower	Upper
84	100		
49	99.2	94.8	142.2
51	33.5	28.3	42.5
86	55.2	51.0	76.6



#25
2-Butanone
Concen: 1.03 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

Tgt Ion:	43	Resp:	4322
Ion	Ratio	Lower	Upper
43	100		
72	20.9	21.5	32.3#





#29

Tetrahydrofuran

Concen: 0.84 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#11

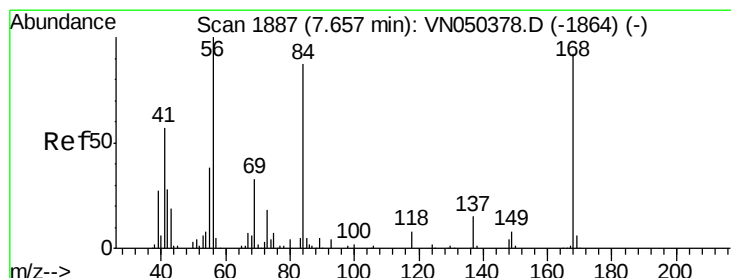
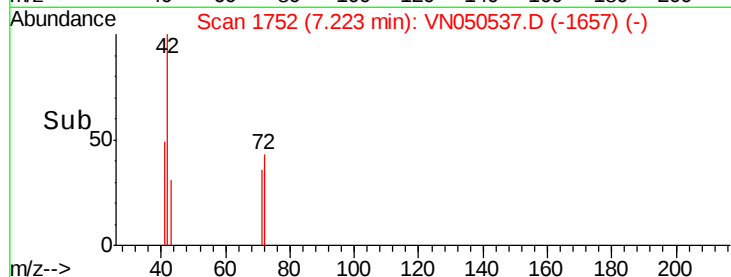
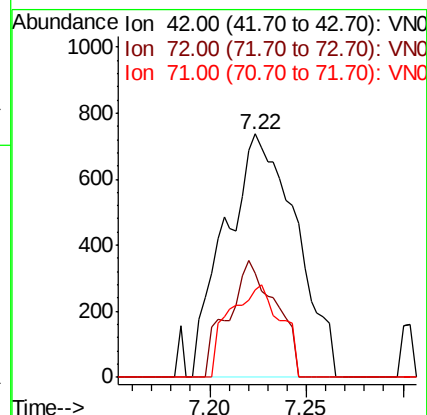
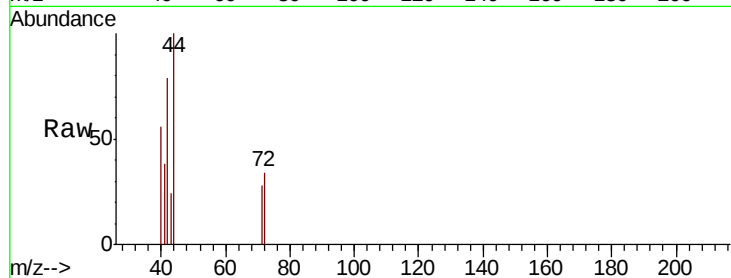
Tot Ion: 42 Resp: 1877

Ion Ratio Lower Upper

42 100

72 32.4 35.9 53.9#

71 27.8 33.7 50.5#



#31

Cyclohexane

Concen: 0.31 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

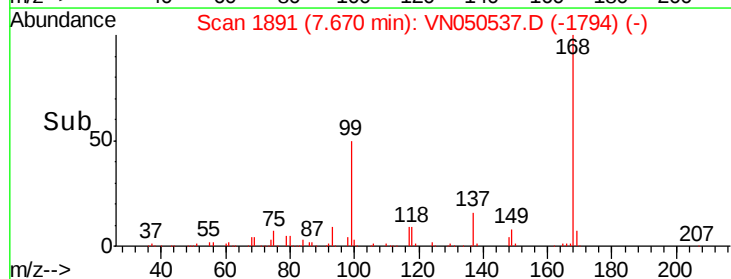
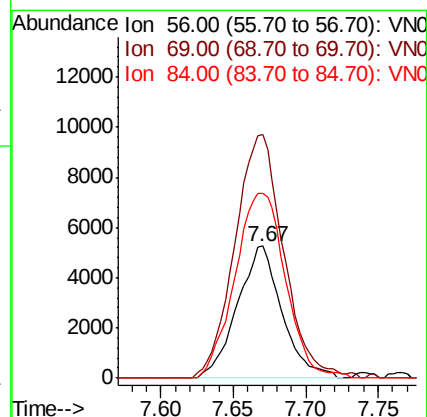
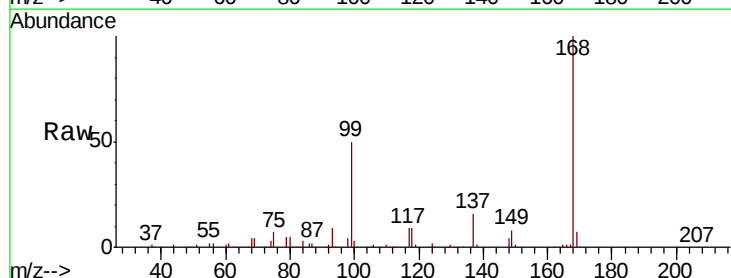
Tgt Ion: 56 Resp: 11287

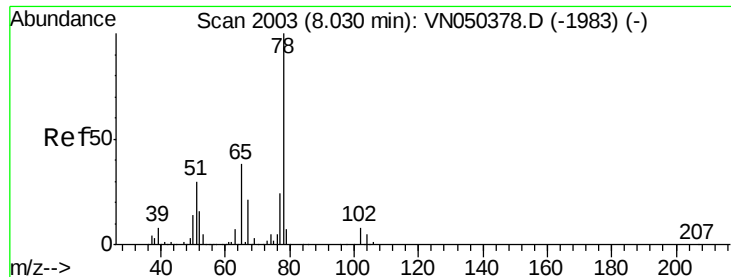
Ion Ratio Lower Upper

56 100

69 184.2 26.2 39.4#

84 140.1 67.4 101.0#

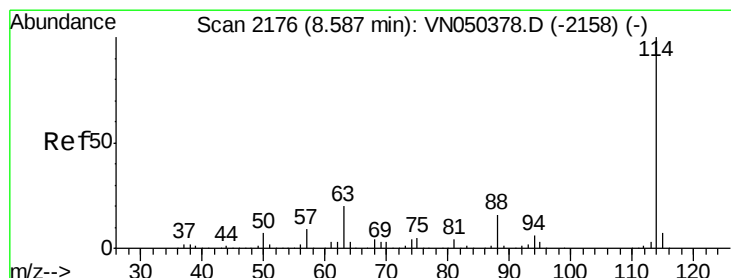
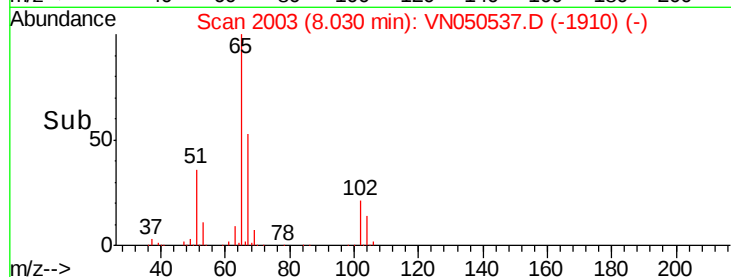
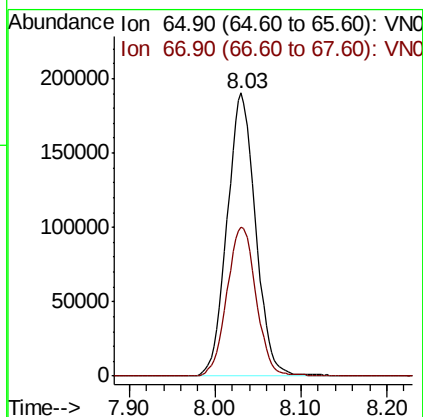
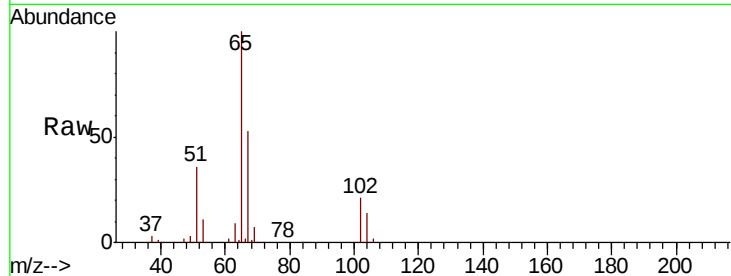




#33
 1,2-Dichloroethane-d4
 Concen: 51.88 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050537.D
 Acq: 11 Aug 2018 00:02

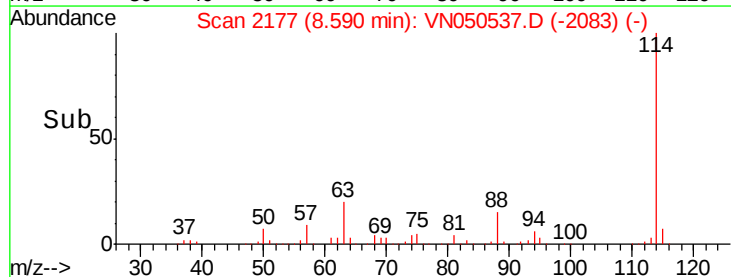
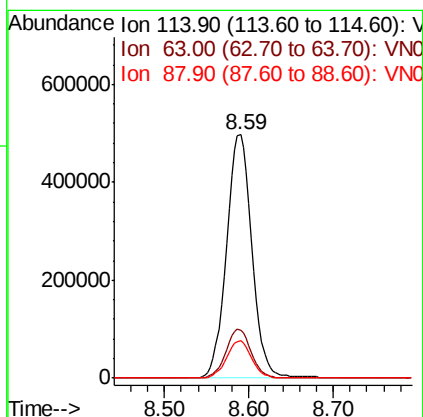
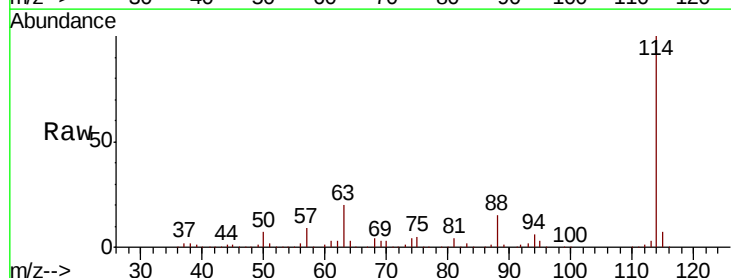
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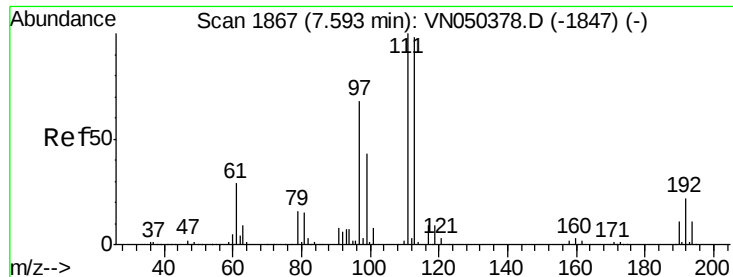
Tot Ion: 65 Resp: 437754
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050537.D
 Acq: 11 Aug 2018 00:02

Tgt Ion: 114 Resp: 1041815
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.2 0.0 31.2

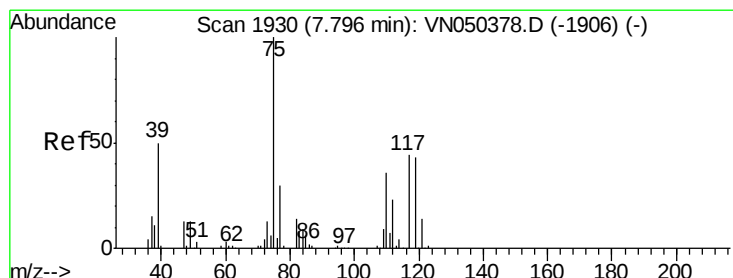
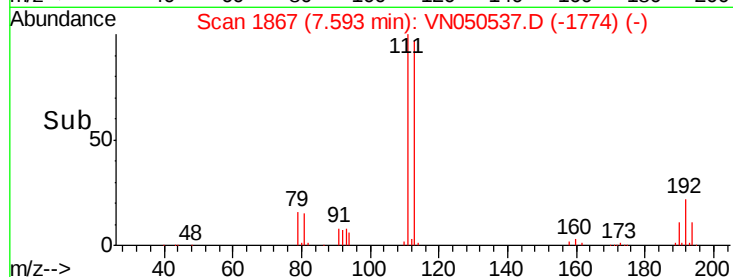
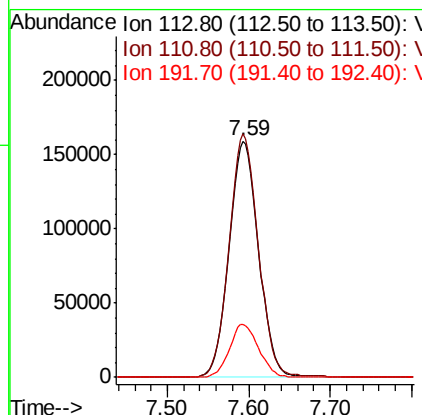
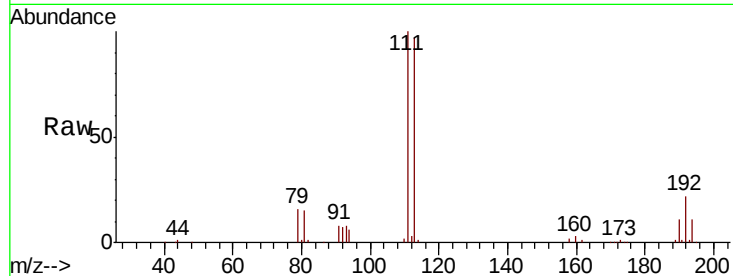




#35
 Dibromofluoromethane
 Concen: 48.35 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050537.D
 Acq: 11 Aug 2018 00:02

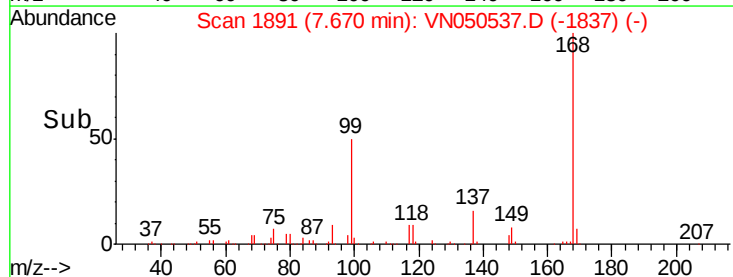
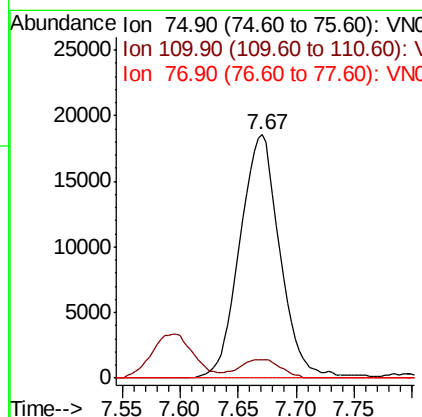
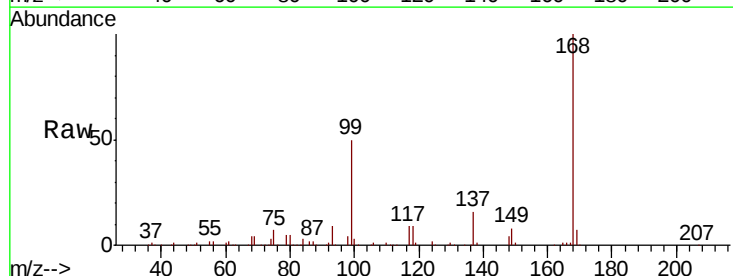
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 MSVOA_N
 ClientSampleId :
 PB111921ZHE#11

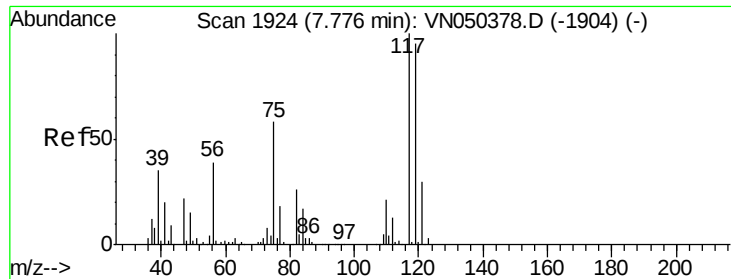
Tot Ion:113 Resp: 404202
 Ion Ratio Lower Upper
 113 100
 111 102.0 80.7 121.1
 192 22.2 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.89 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050537.D
 Acq: 11 Aug 2018 00:02

Tgt Ion: 75 Resp: 44495
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.4 55.2#
 77 0.0 25.3 37.9#

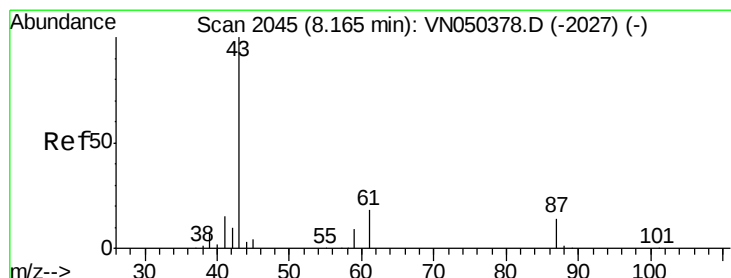
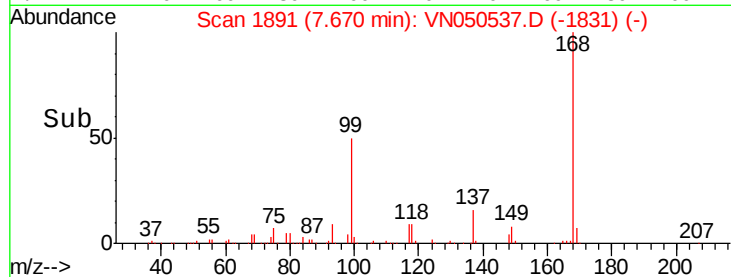
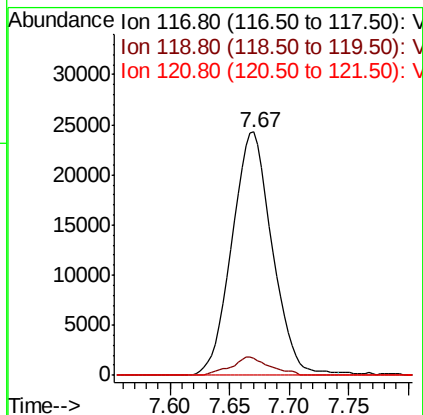
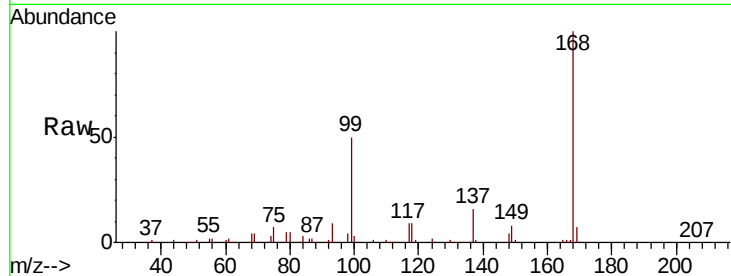




#38
Carbon Tetrachloride
Concen: 4.76 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

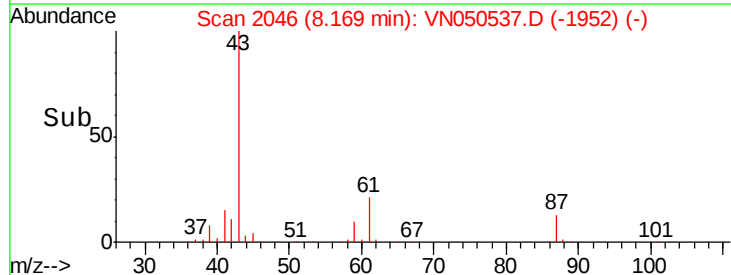
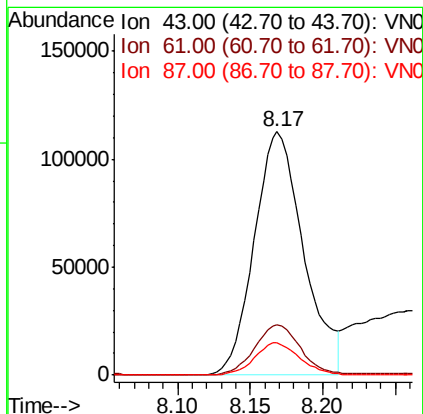
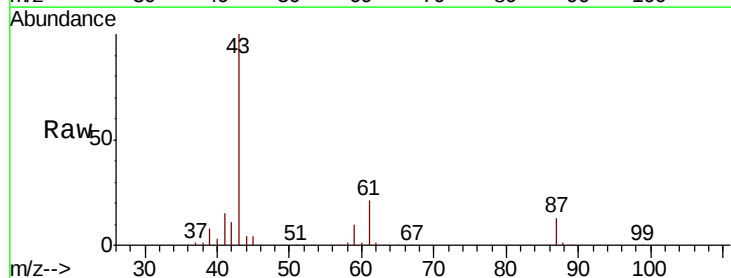
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#11

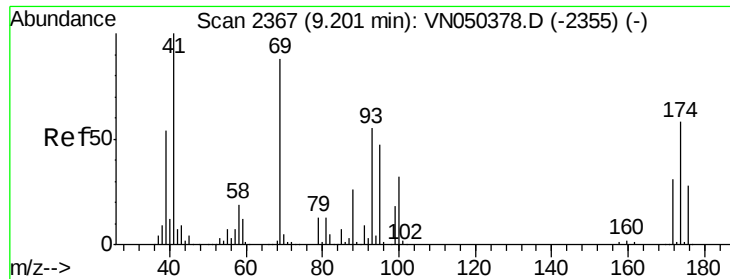
Tot Ion:117 Resp: 56892
Ion Ratio Lower Upper
117 100
119 7.1 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 18.81 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

Tgt Ion: 43 Resp: 267698
Ion Ratio Lower Upper
43 100
61 19.2 15.8 23.6
87 12.1 10.3 15.5

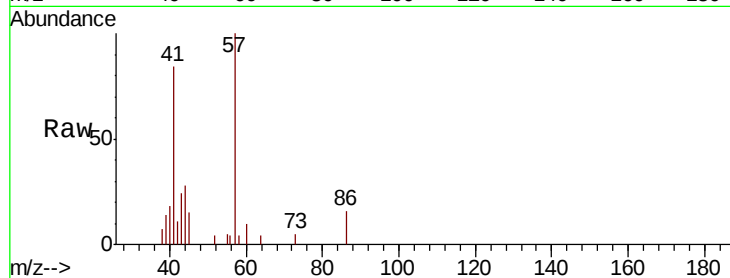




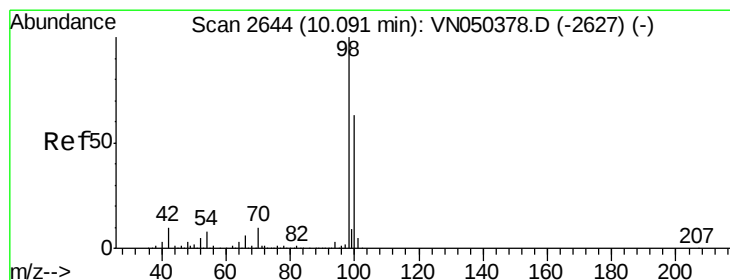
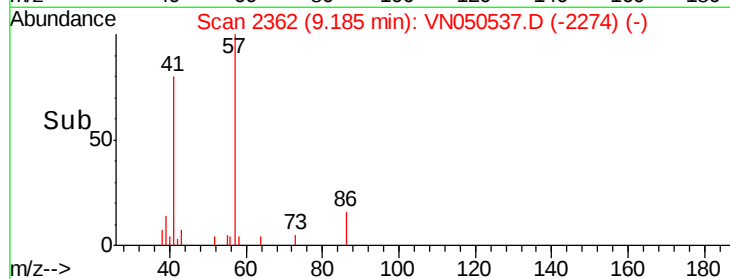
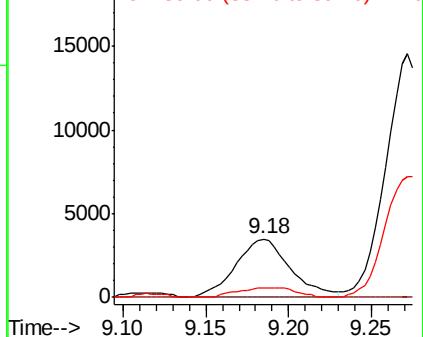
#48
Methyl methacrylate
Concen: 1.12 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#11

Tot Ion: 41 Resp: 8004
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 11.1 43.9 65.9#

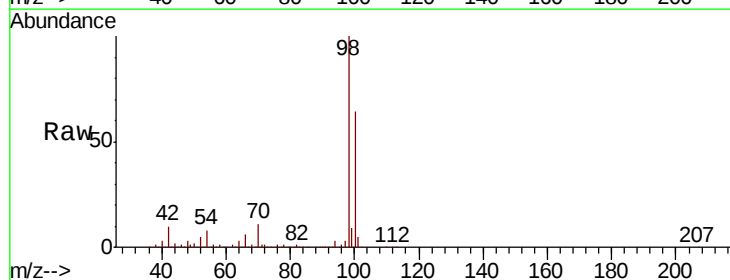


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

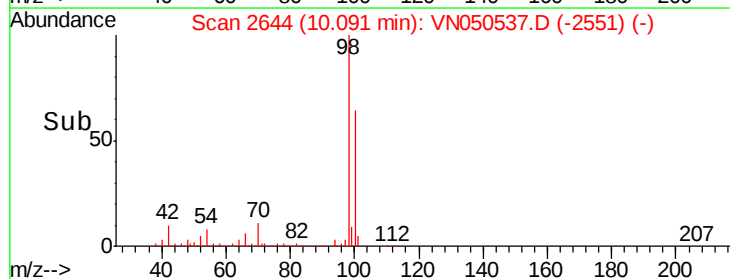
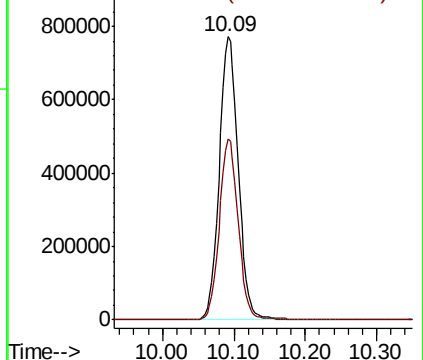


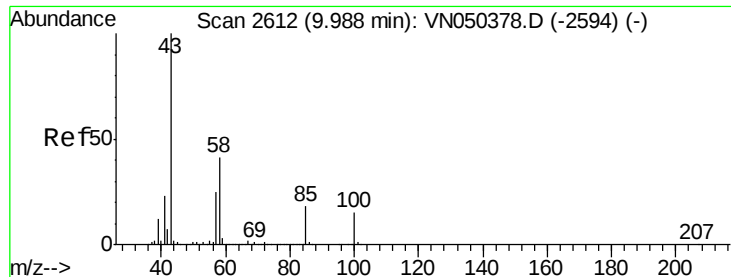
#50
Toluene-d8
Concen: 45.26 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

Tgt Ion: 98 Resp: 1422460
Ion Ratio Lower Upper
98 100
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

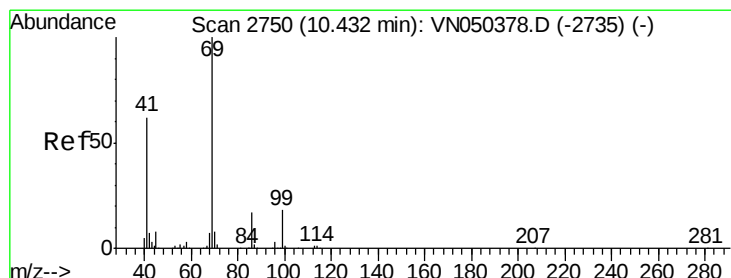
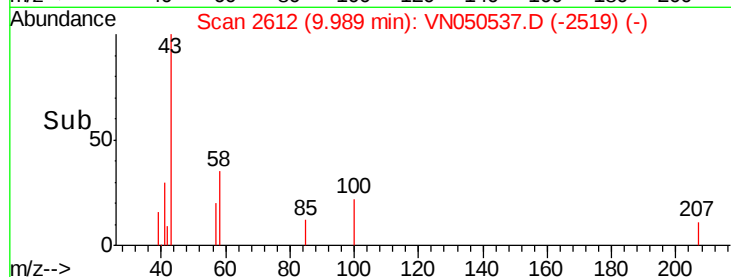
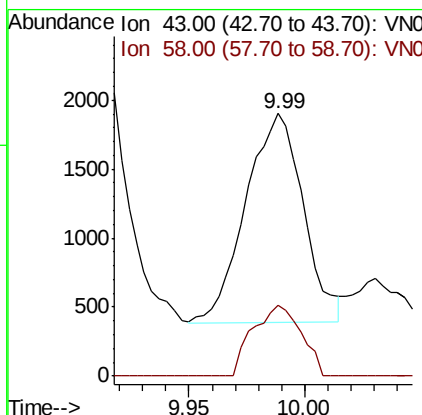
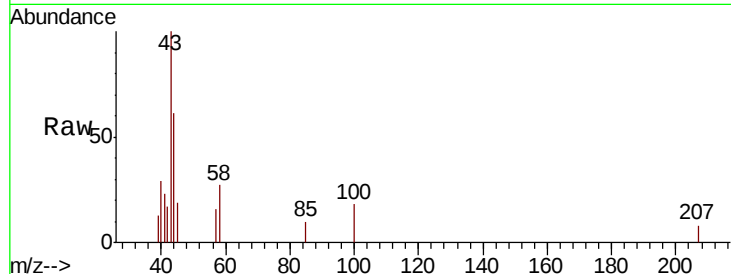




#51
 4-Methyl-2-Pentanone
 Concen: 0.25 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050537.D
 Acq: 11 Aug 2018 00:02

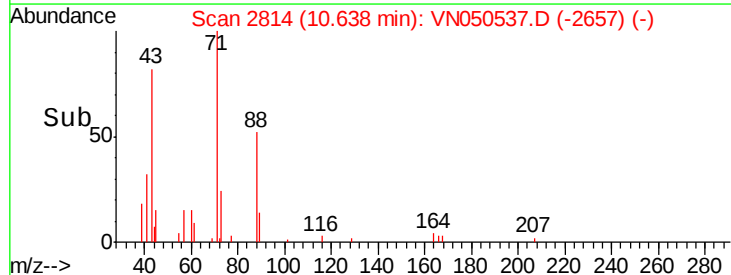
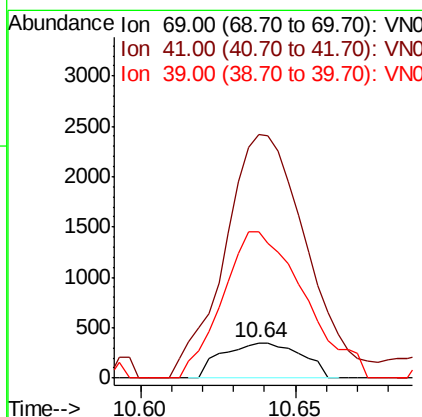
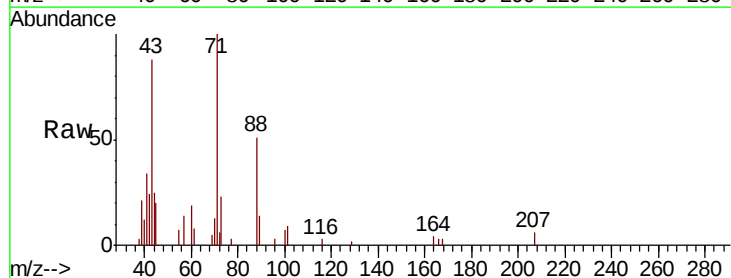
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#11

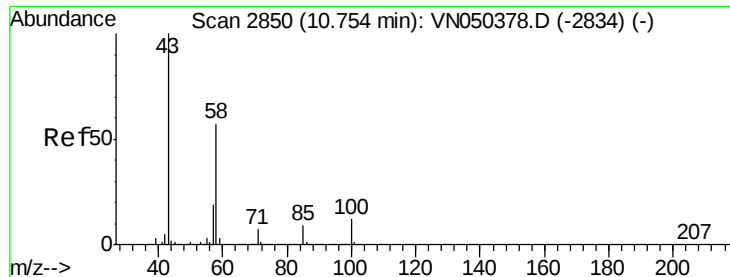
Tot Ion: 43 Resp: 2599
 Ion Ratio Lower Upper
 43 100
 58 28.7 31.9 47.9#



#56
 Ethyl methacrylate
 Concen: 1.76 ug/l
 RT: 10.64 min Scan# 2814
 Delta R.T. 0.21 min
 Lab File: VN050537.D
 Acq: 11 Aug 2018 00:02

Tgt Ion: 69 Resp: 620
 Ion Ratio Lower Upper
 69 100
 41 715.2 51.0 76.4#
 39 431.1 26.6 40.0#





#59

2-Hexanone

Concen: 2.75 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

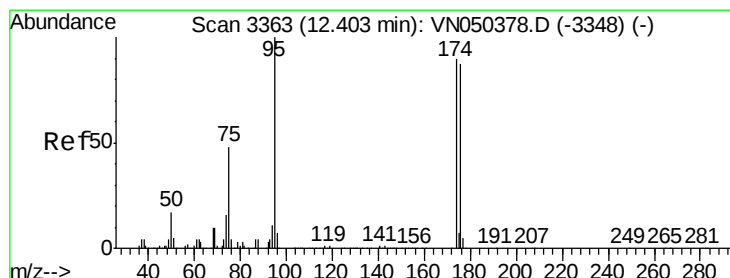
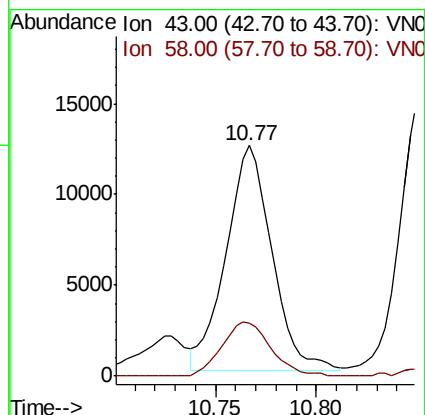
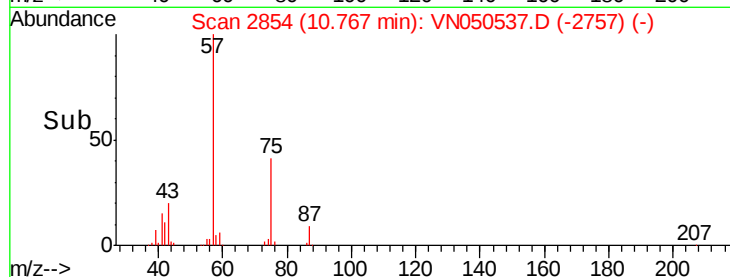
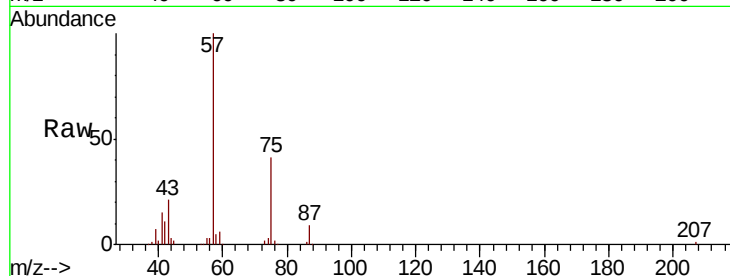
PB111921ZHE#11

Tot Ion: 43 Resp: 19647

Ion Ratio Lower Upper

43 100

58 25.7 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 36.29 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

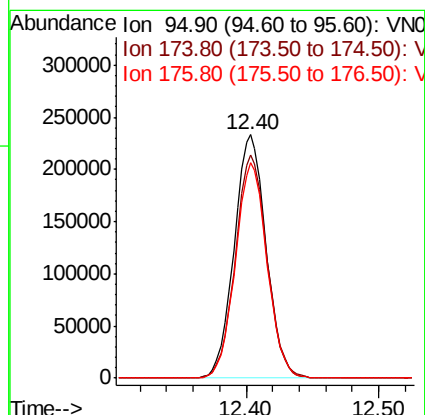
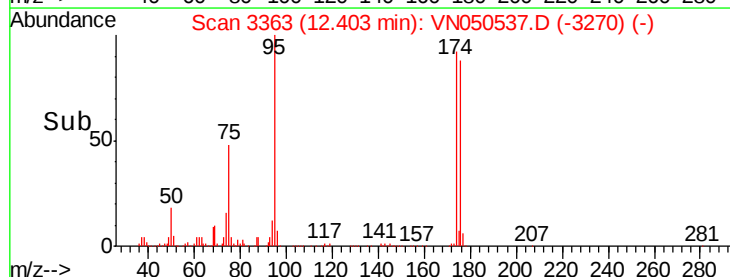
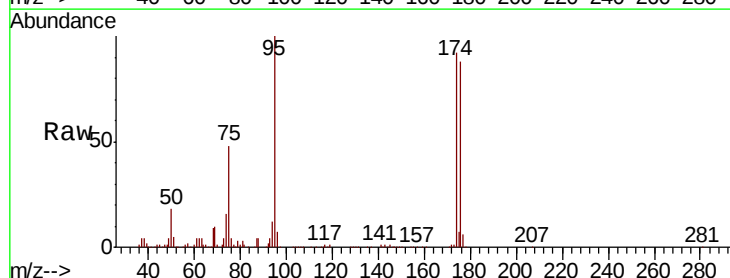
Tgt Ion: 95 Resp: 388759

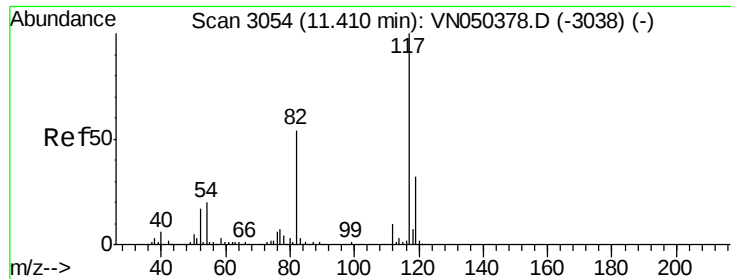
Ion Ratio Lower Upper

95 100

174 91.4 0.0 178.2

176 87.7 0.0 173.4

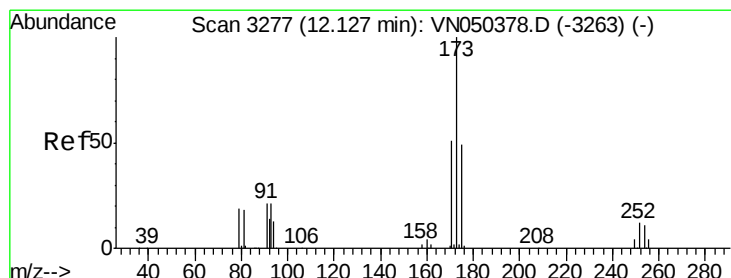
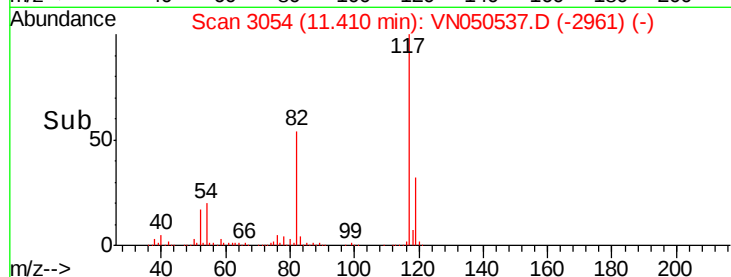
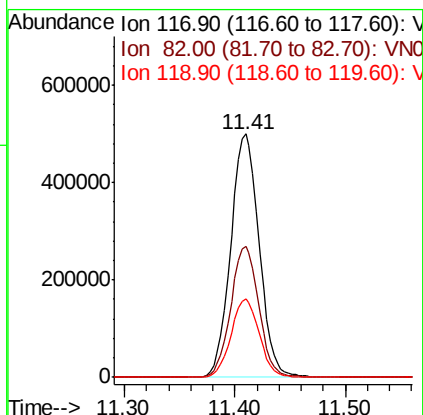
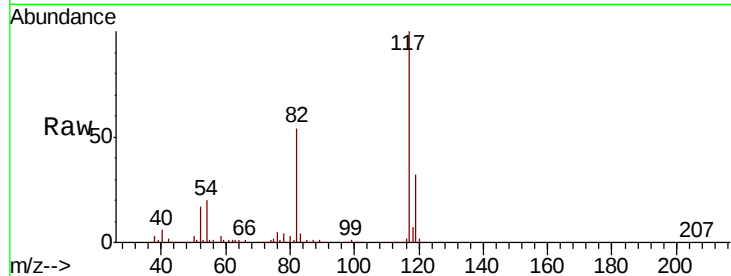




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

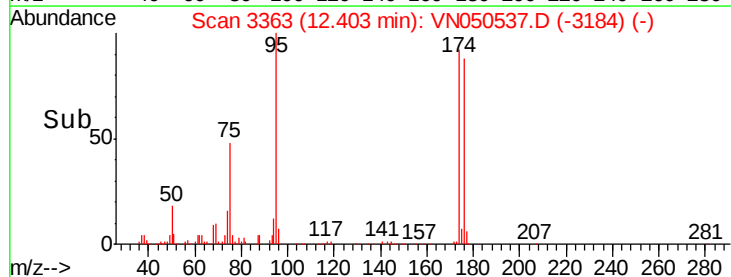
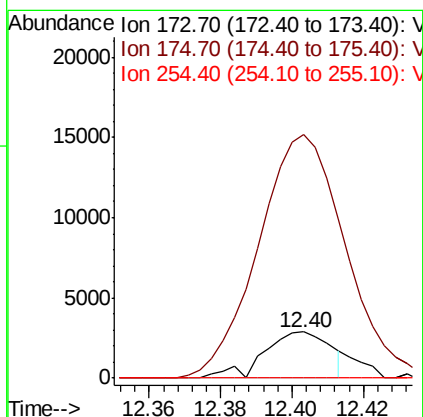
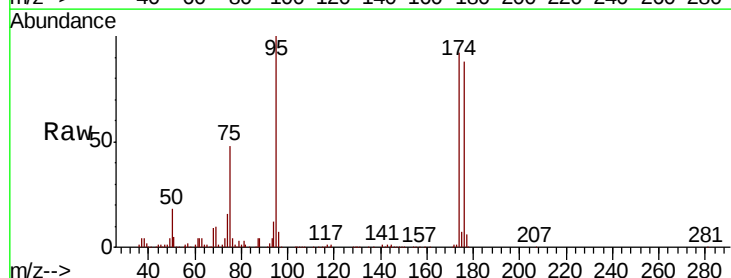
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#11

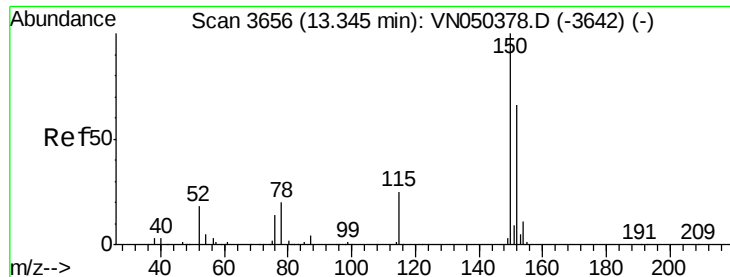
Tot Ion:117 Resp: 893115
Ion Ratio Lower Upper
117 100
82 53.9 43.7 65.5
119 32.1 26.1 39.1



#71
Bromoform
Concen: 0.62 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050537.D
Acq: 11 Aug 2018 00:02

Tgt Ion:173 Resp: 3708
Ion Ratio Lower Upper
173 100
175 585.4 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#11

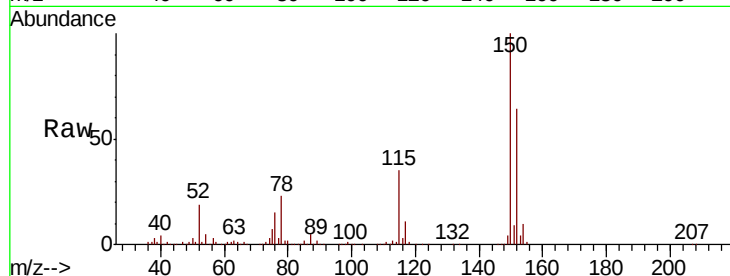
Tot Ion:152 Resp: 328941

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.3

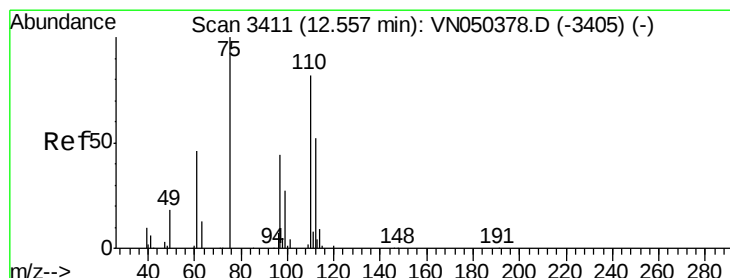
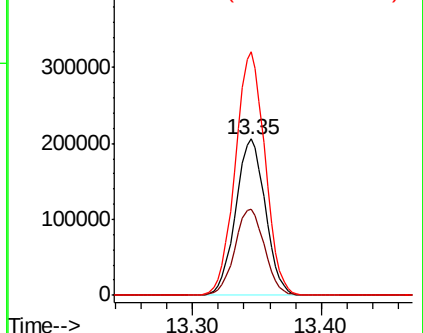
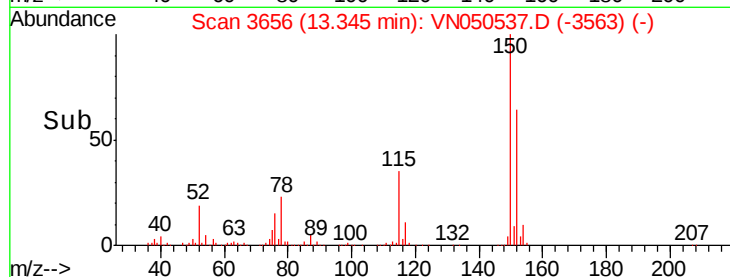
150 156.2 0.0 348.6



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: 31.41 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050537.D

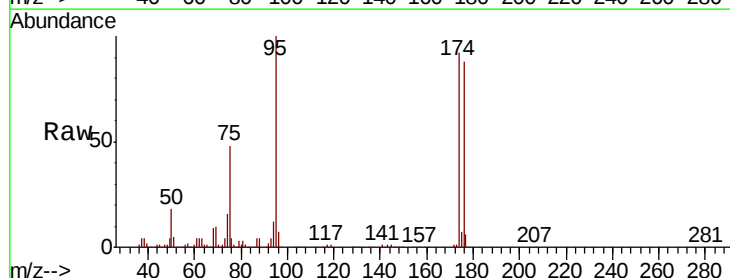
Acq: 11 Aug 2018 00:02

Tgt Ion: 75 Resp: 187015

Ion Ratio Lower Upper

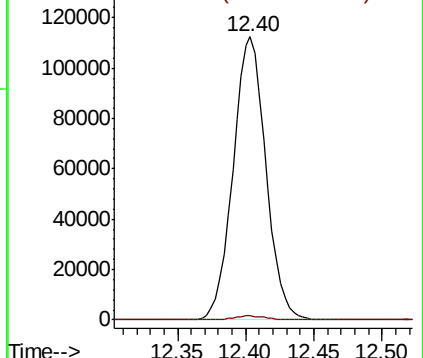
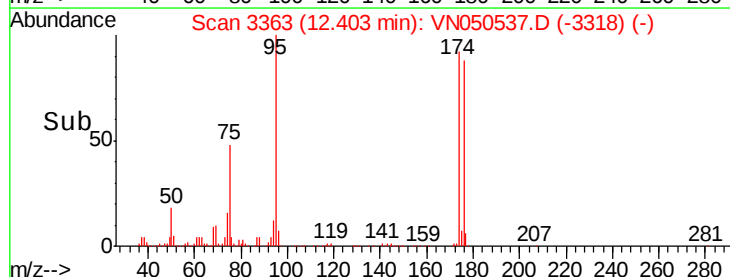
75 100

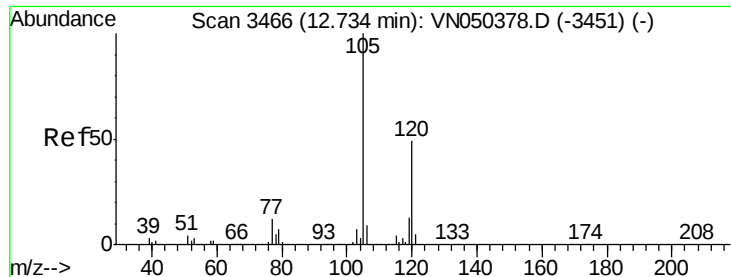
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

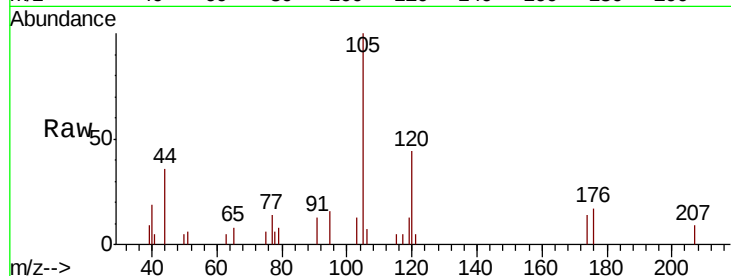
PB111921ZHE#11

Tot Ion:105 Resp: 4597

Ion Ratio Lower Upper

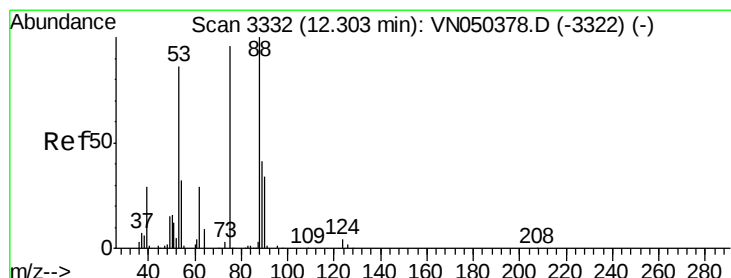
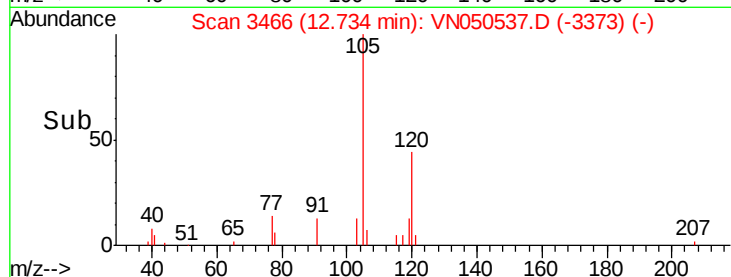
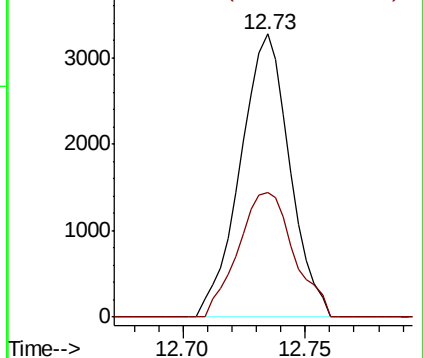
105 100

120 49.6 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: 110.36 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

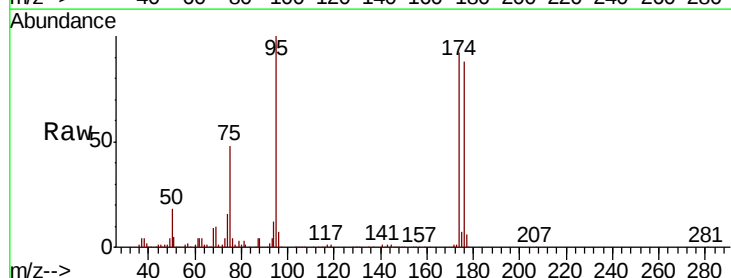
Tgt Ion: 75 Resp: 187015

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

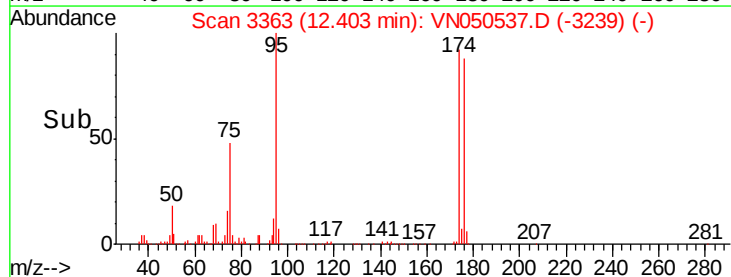
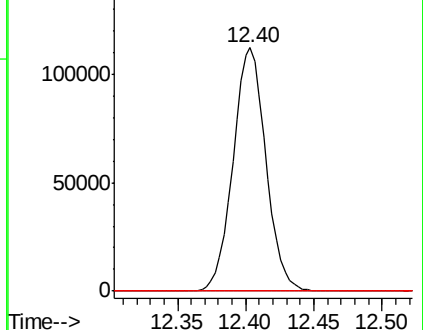
89 0.0 36.0 54.0#

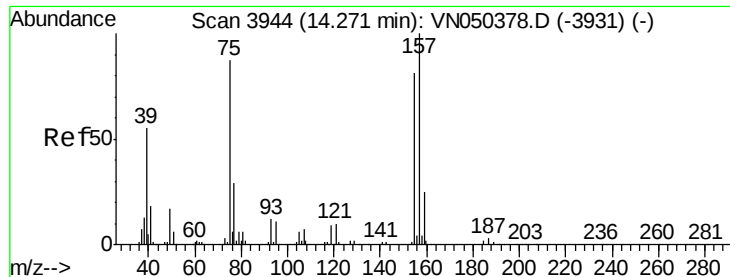


Abundance Ion 74.90 (74.60 to 75.60): VNO

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: 0.27 ug/l

RT: 14.25 min Scan# 3937

Delta R.T. -0.02 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#11

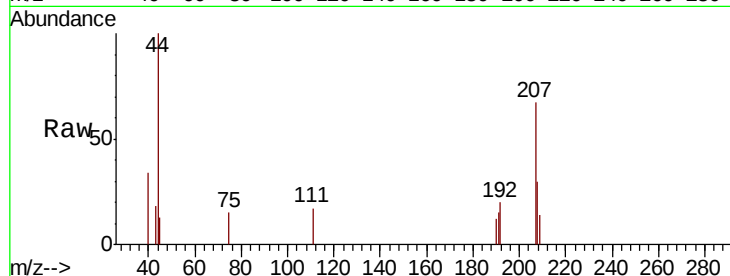
Tot Ion: 75 Resp: 331

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

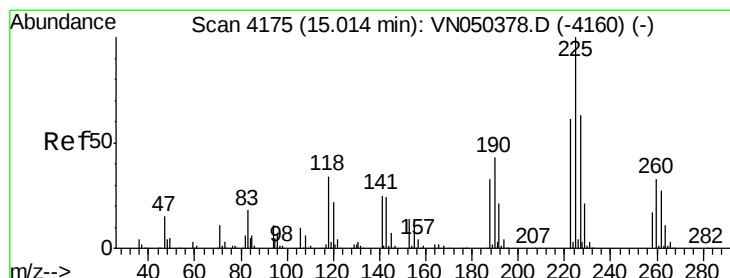
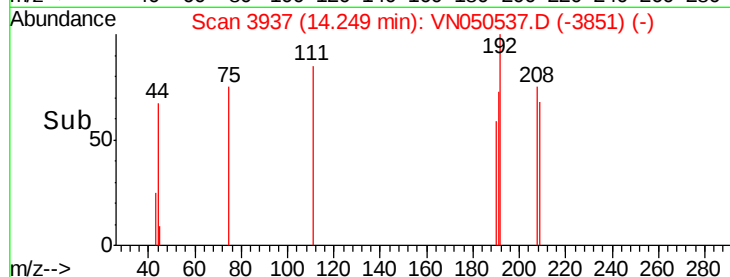
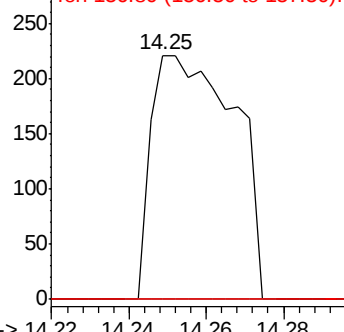
157 0.0 57.2 171.6#



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



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4173

Delta R.T. -0.01 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

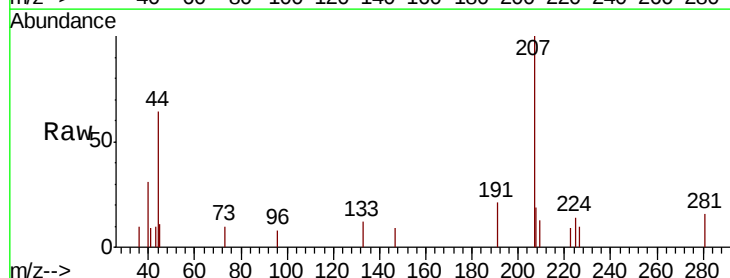
Tgt Ion: 225 Resp: 251

Ion Ratio Lower Upper

225 100

223 42.6 31.4 94.2

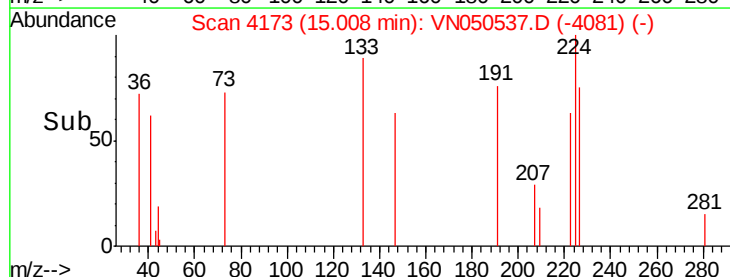
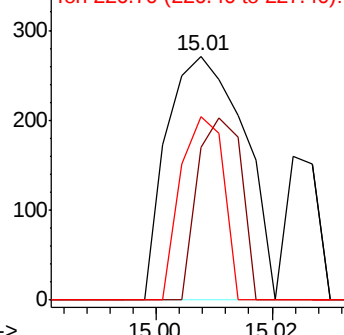
227 41.4 32.1 96.5

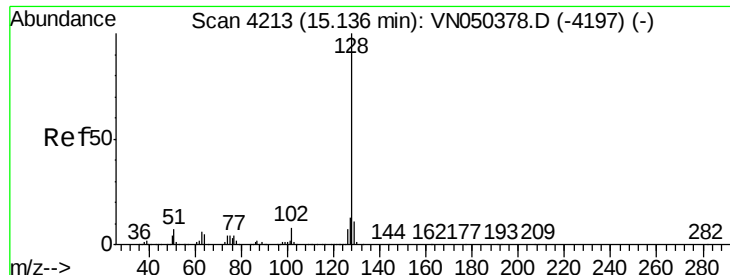


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.75 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050537.D

Acq: 11 Aug 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#11

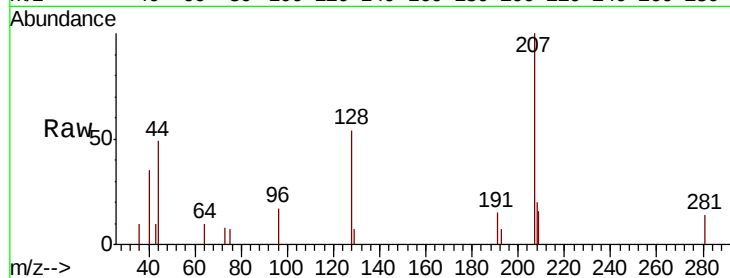
Tot Ion:128 Resp: 2160

Ion Ratio Lower Upper

128 100

127 1.4 10.4 15.6#

129 3.0 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

