

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051259.D
 Acq On : 16 Sep 2018 7:02
 Operator : MD\SY
 Sample : J4936-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:29:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	397664	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	630184	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	493630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	135262	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	220934	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
35) Dibromofluoromethane	7.59	113	237545	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
50) Toluene-d8	10.09	98	808619	45.00	ug/l	0.00
Spiked Amount			Recovery	=	90.00%	
62) 4-Bromofluorobenzene	12.40	95	195984	32.97	ug/l	0.00
Spiked Amount			Recovery	=	65.94%	

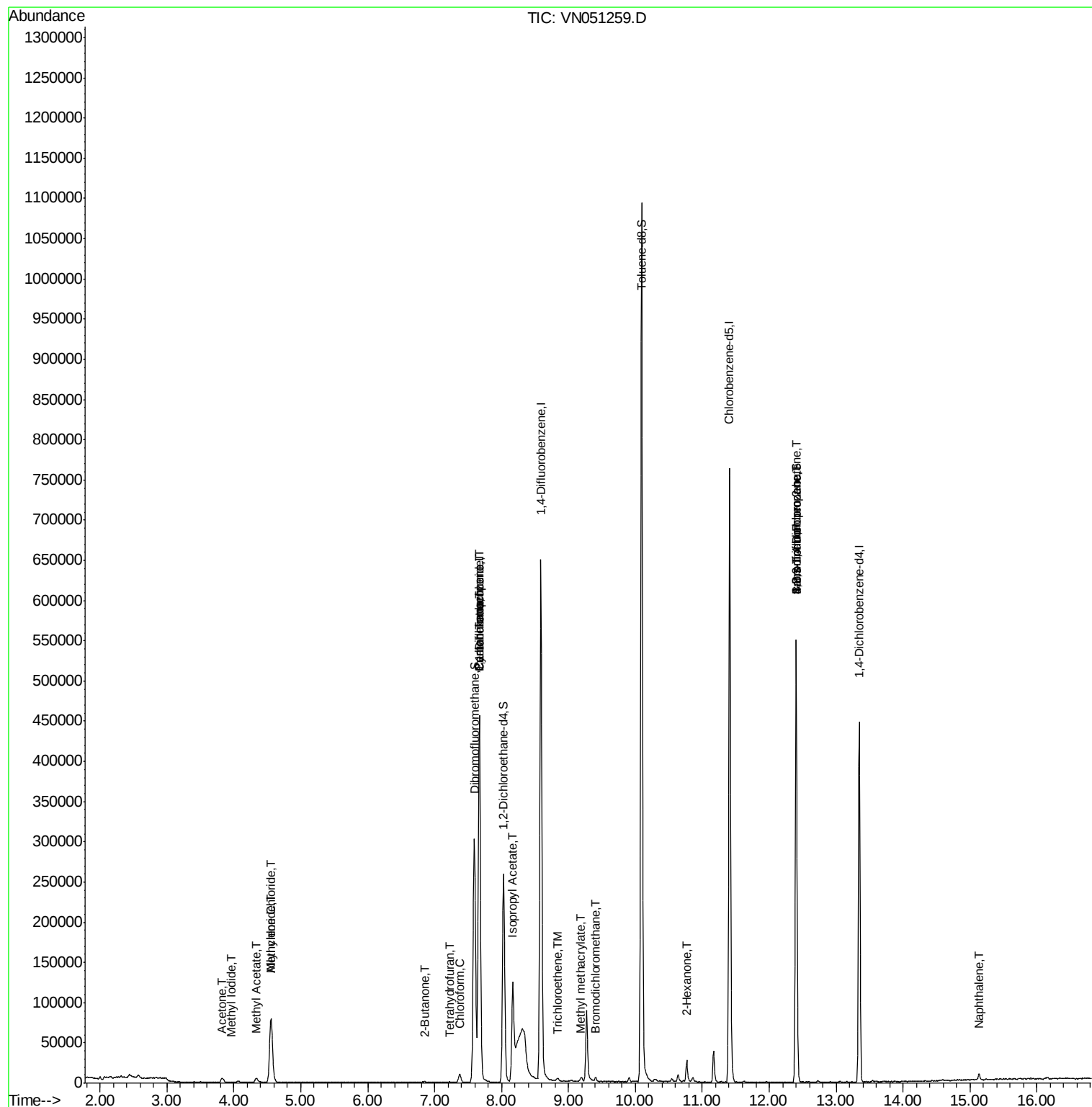
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1858	Below Cal		96
5) Bromomethane	2.57	94	1700	Below Cal		88
10) Methyl Iodide	3.95	142	66	5.64	ug/l #	44
14) Allyl chloride	4.55	41	2041	0.32	ug/l #	26
16) Acetone	3.82	43	9870	3.26	ug/l #	88
18) Methyl Acetate	4.33	43	11353	3.20	ug/l #	76
20) Methylene Chloride	4.55	84	64287	13.15	ug/l	97
25) 2-Butanone	6.85	43	1747	1.00	ug/l #	46
29) Tetrahydrofuran	7.23	42	891	0.82	ug/l #	44
30) Chloroform	7.37	83	12122	1.50	ug/l	100
31) Cyclohexane	7.67	56	6131	0.62	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25874	3.74	ug/l #	47
38) Carbon Tetrachloride	7.67	117	34532	5.07	ug/l #	17
43) Isopropyl Acetate	8.17	43	161819	22.89	ug/l #	82
44) Trichloroethene	8.84	130	1358	0.24	ug/l	97
47) Bromodichloromethane	9.40	83	3028	0.45	ug/l #	93
48) Methyl methacrylate	9.18	41	3265	0.95	ug/l #	14
59) 2-Hexanone	10.76	43	3658	1.38	ug/l #	53
71) Bromoform	12.40	173	994	0.32	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	91418	43.40	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	91418	128.36	ug/l #	15
90) Hexachloroethane	13.99	117	489	Below Cal	#	2
95) Naphthalene	15.14	128	7222	6.61	ug/l	97

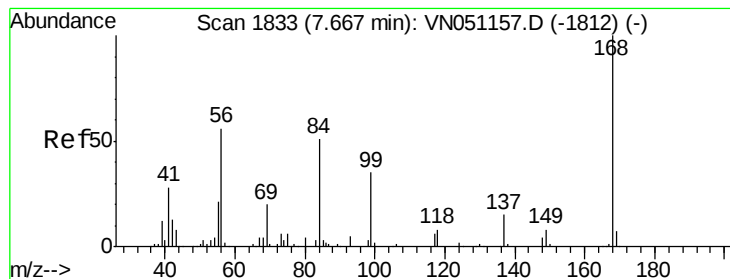
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 11 02:27:09 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

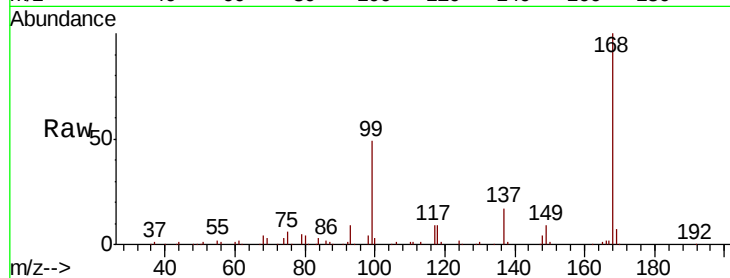
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 397664

Ion Ratio Lower Upper

168 100

99 49.4 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

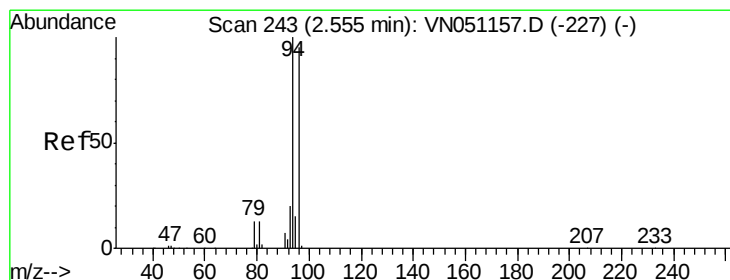
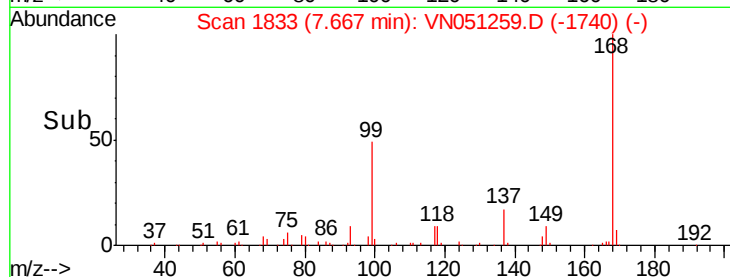
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051259.D

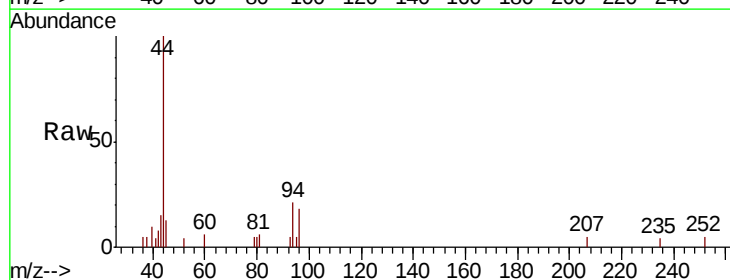
Acq: 16 Sep 2018 7:02

Tgt Ion: 94 Resp: 1700

Ion Ratio Lower Upper

94 100

96 82.9 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

1000

800

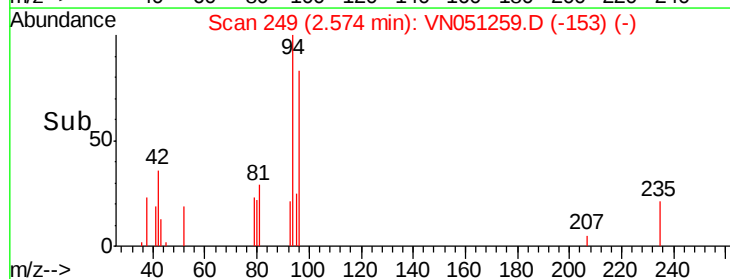
600

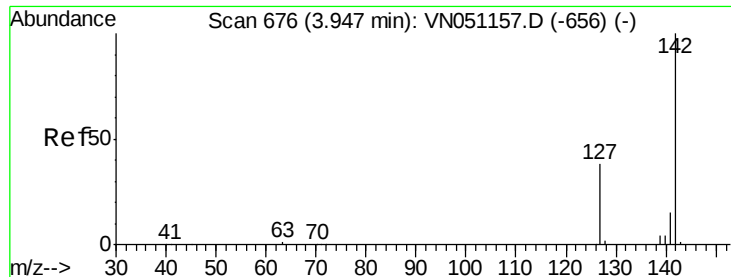
400

200

0

Time-->

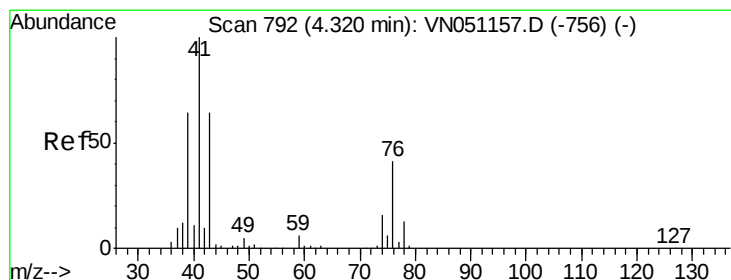
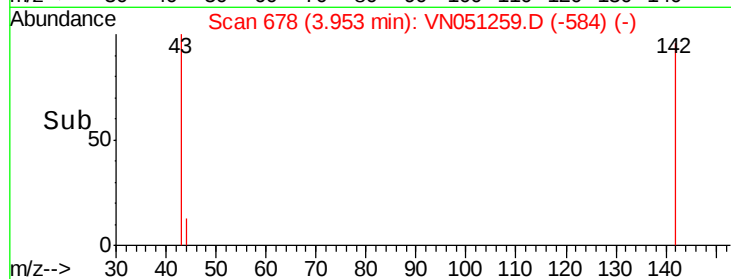
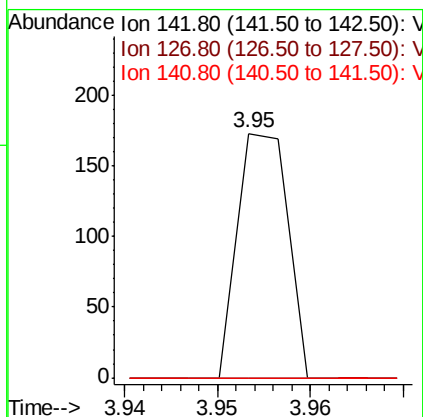
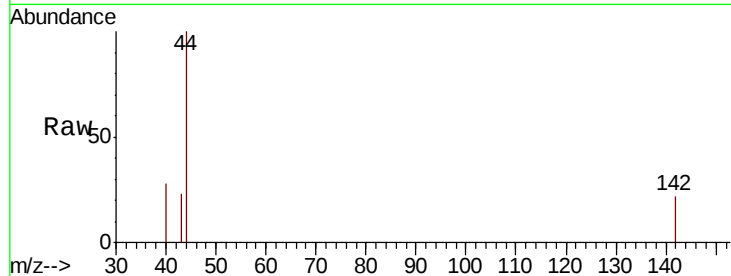




#10
Methvl Iodide
Concen: 5.64 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051259.D
Acq: 16 Sep 2018 7:02

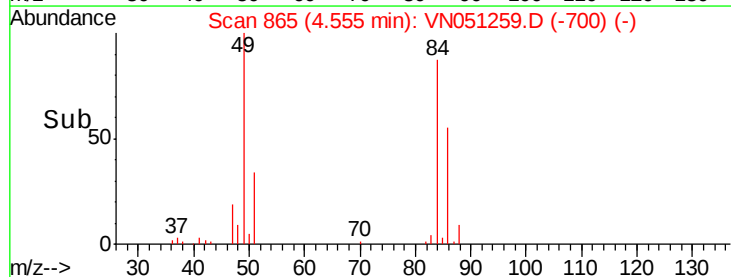
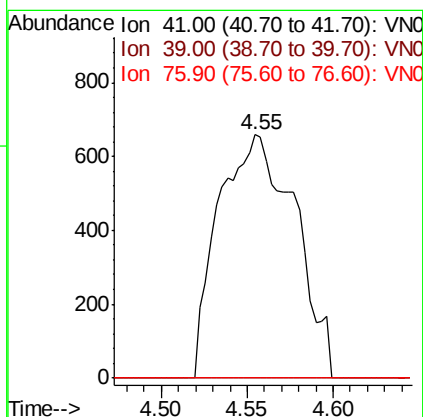
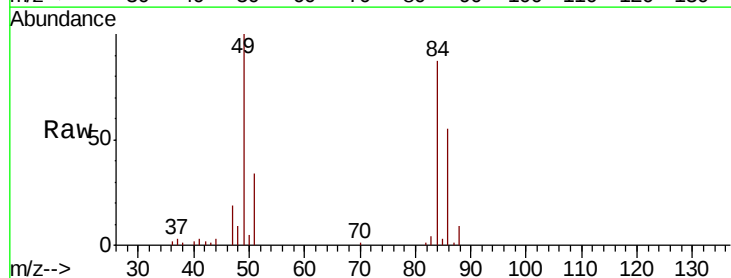
Instrument :
MSVOA_N
ClientSampleId :

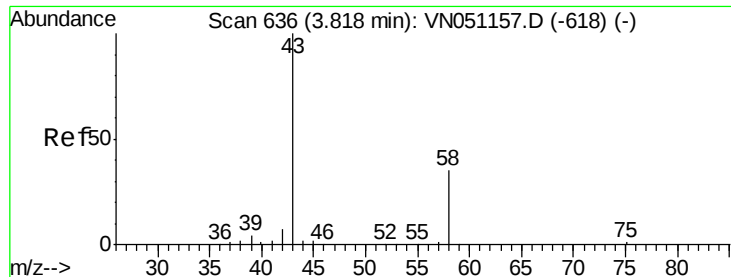
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	31.0	46.4#
141	0.0	11.3	16.9#



#14
Allyl chloride
Concen: 0.32 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN051259.D
Acq: 16 Sep 2018 7:02

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.8	73.2#
76	0.0	30.6	45.8#





#16

Acetone

Concen: 3.26 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

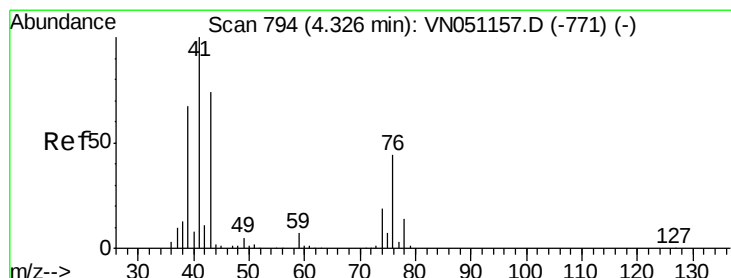
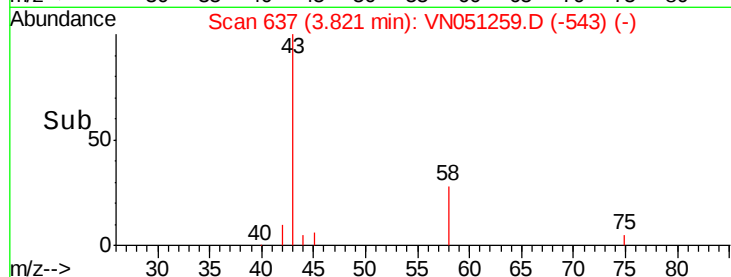
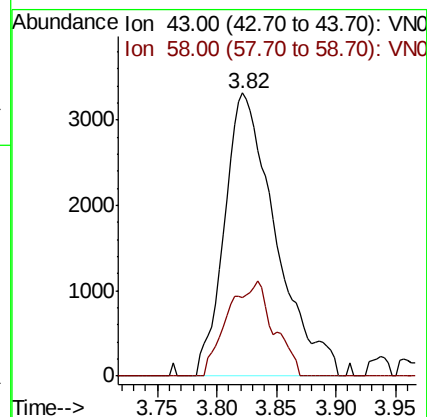
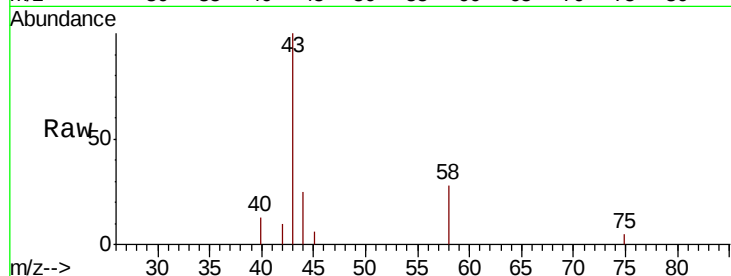
ClientSampled :

Tot Ion: 43 Resp: 9870

Ion Ratio Lower Upper

43 100

58 27.6 27.8 41.6#



#18

Methyl Acetate

Concen: 3.20 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051259.D

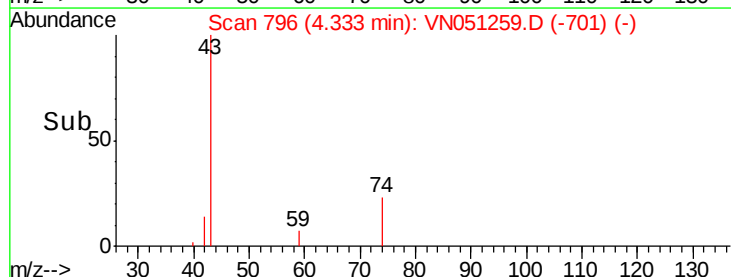
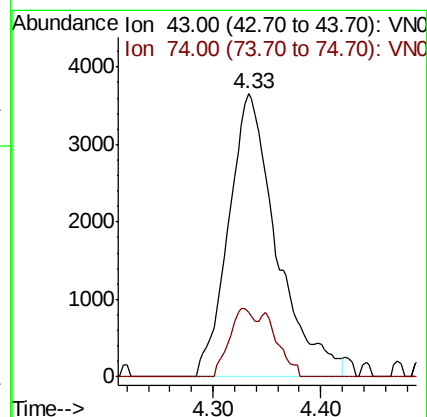
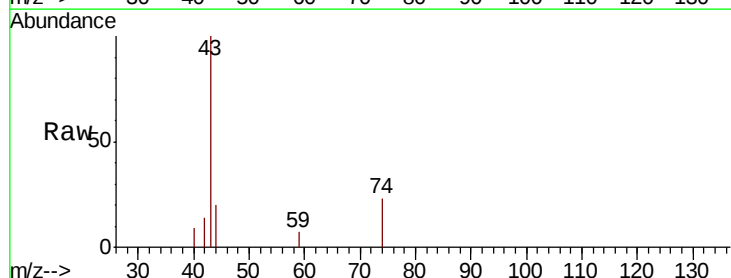
Acq: 16 Sep 2018 7:02

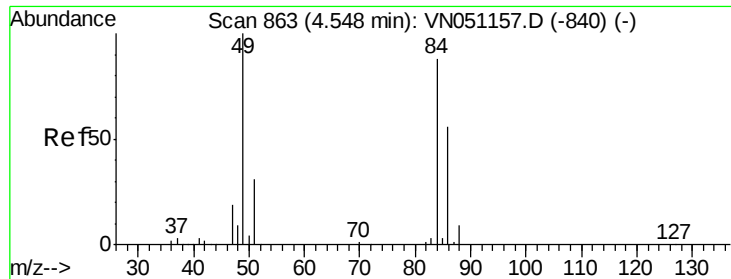
Tgt Ion: 43 Resp: 11353

Ion Ratio Lower Upper

43 100

74 13.6 20.7 31.1#

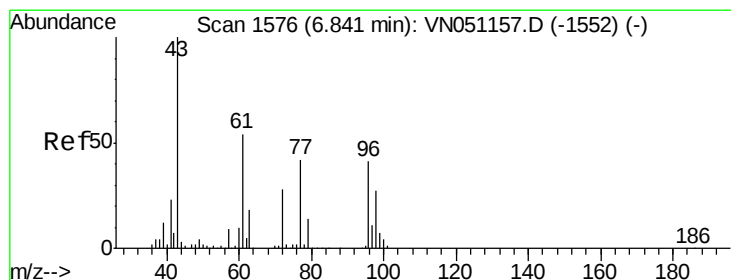
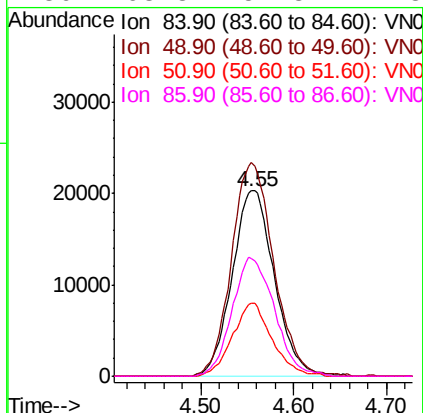
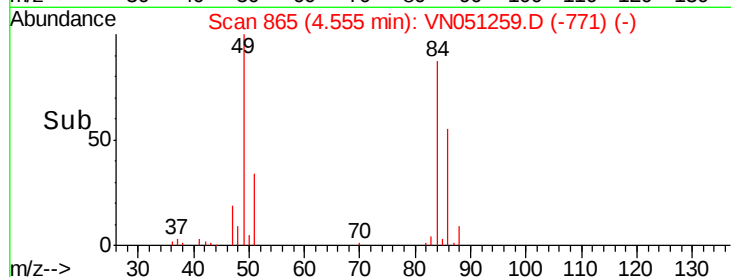
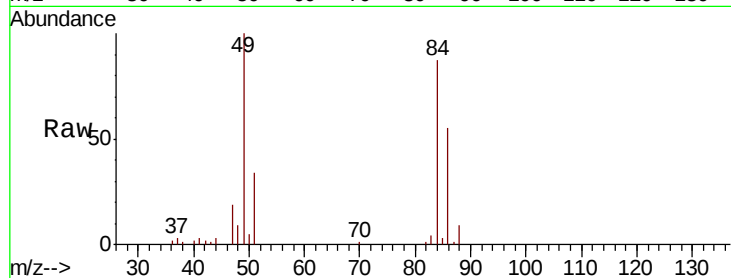




#20
Methylene Chloride
Concen: 13.15 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051259.D
Acq: 16 Sep 2018 7:02

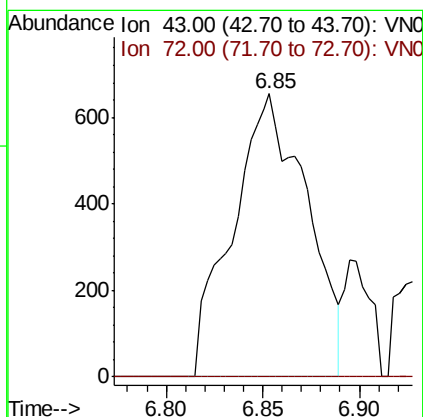
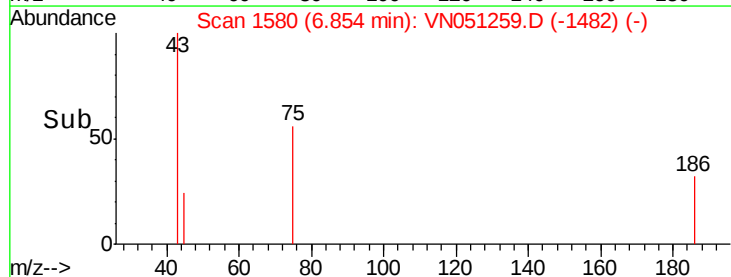
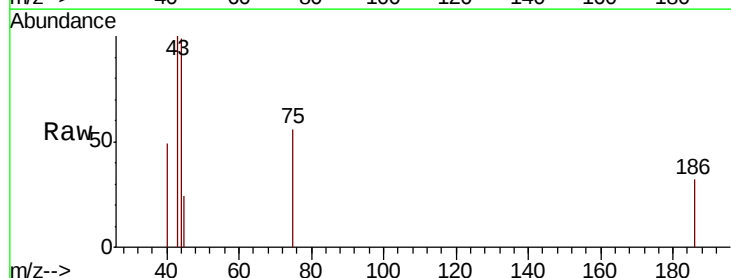
Instrument :
MSVOA_N
ClientSampled :

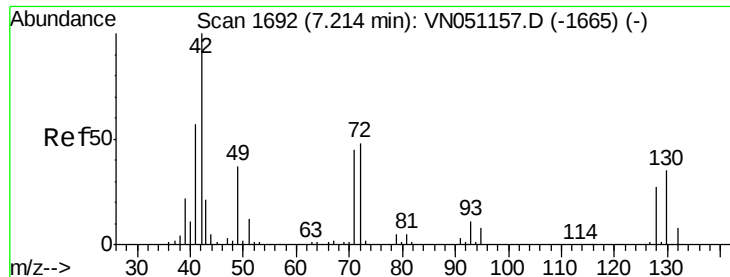
Tot Ion: 84 Resp: 64287
Ion Ratio Lower Upper
84 100
49 115.4 90.2 135.2
51 39.2 28.4 42.6
86 63.8 51.8 77.8



#25
2-Butanone
Concen: 1.00 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN051259.D
Acq: 16 Sep 2018 7:02

Tgt Ion: 43 Resp: 1747
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.82 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

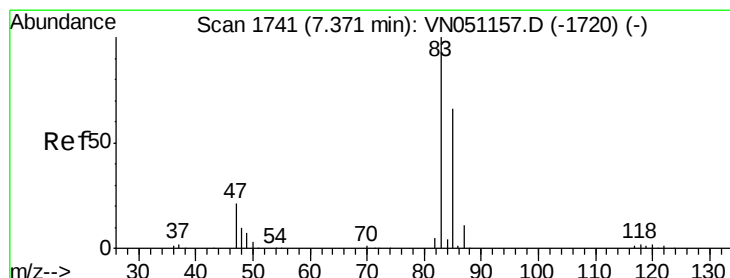
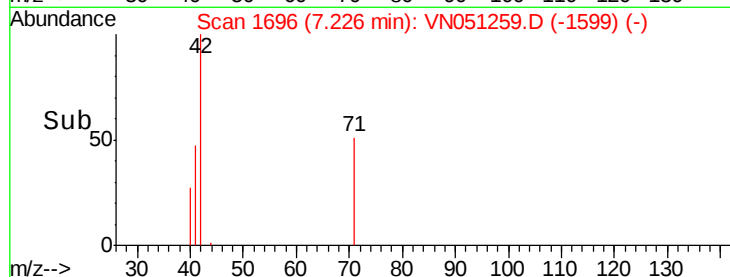
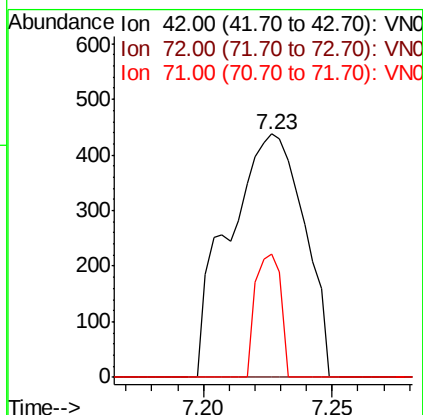
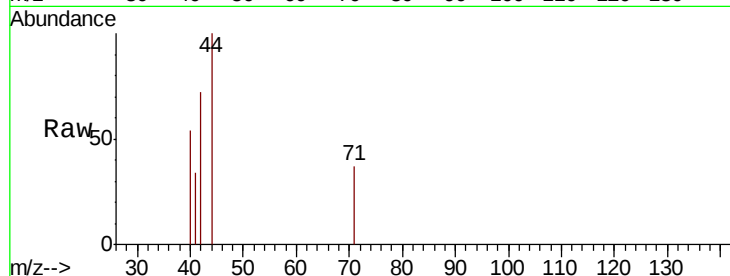
Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 891

Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.4	56.0#
71	17.3	34.7	52.1#



#30

Chloroform

Concen: 1.50 ug/l

RT: 7.37 min Scan# 1742

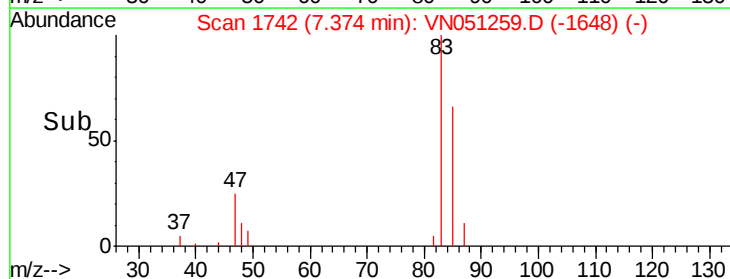
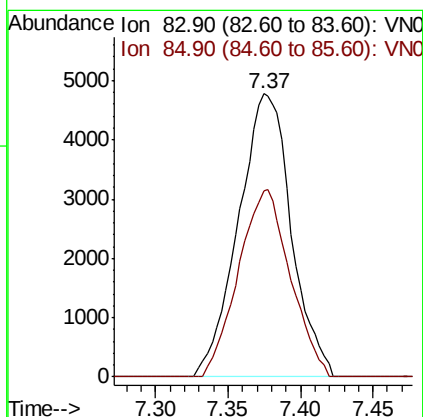
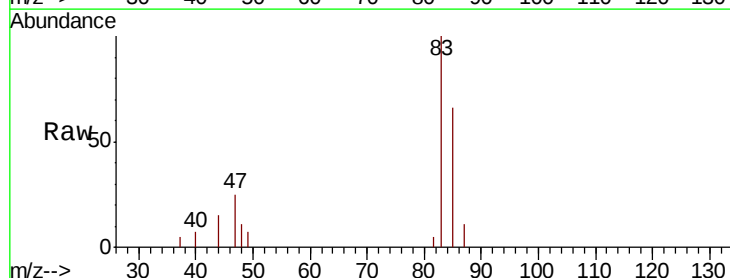
Delta R.T. 0.00 min

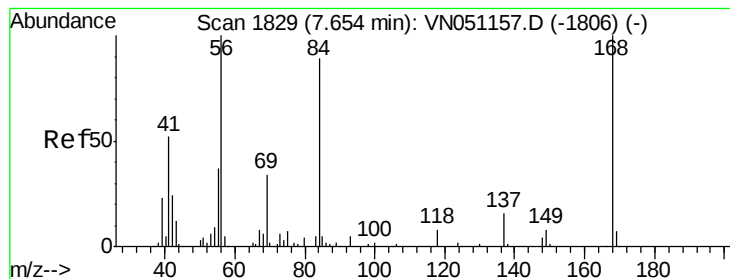
Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Tgt Ion: 83 Resp: 12122

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.6	79.0





#31

Cyclohexane

Concen: 0.62 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

ClientSampled :

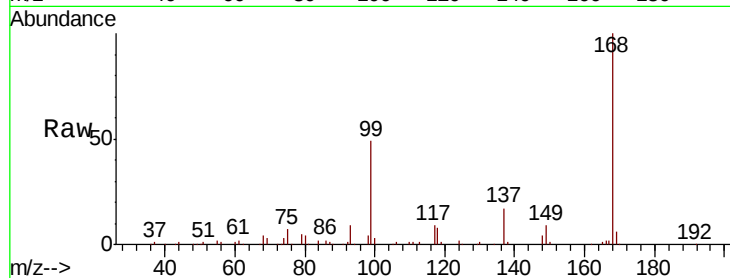
Tot Ion: 56 Resp: 6131

Ion Ratio Lower Upper

56 100

69 210.5 26.3 39.5#

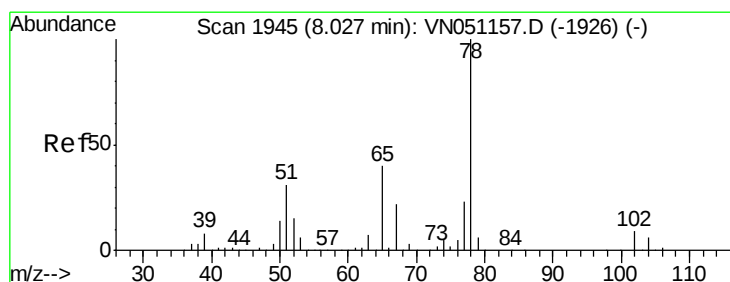
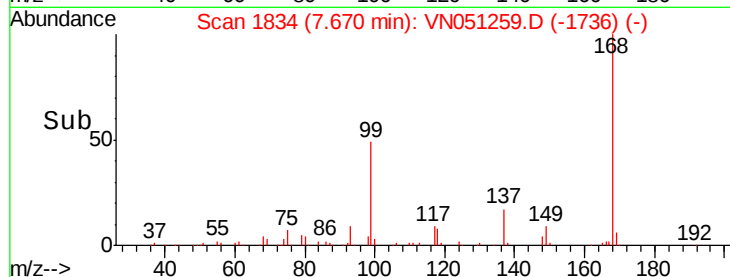
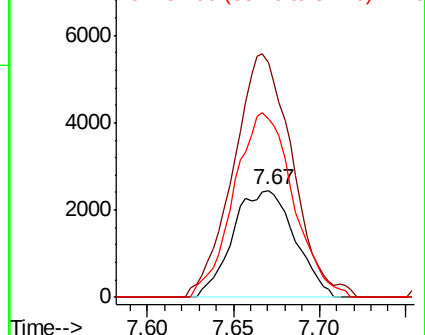
84 166.5 69.4 104.0#



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: 49.92 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051259.D

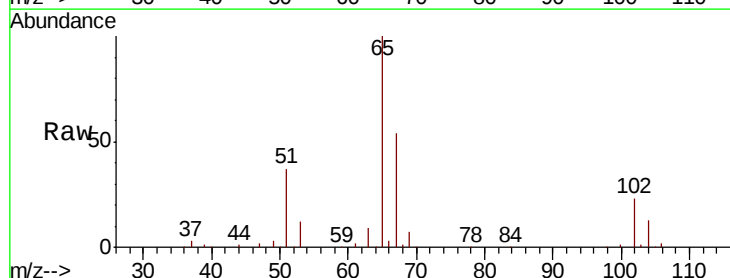
Acq: 16 Sep 2018 7:02

Tgt Ion: 65 Resp: 220934

Ion Ratio Lower Upper

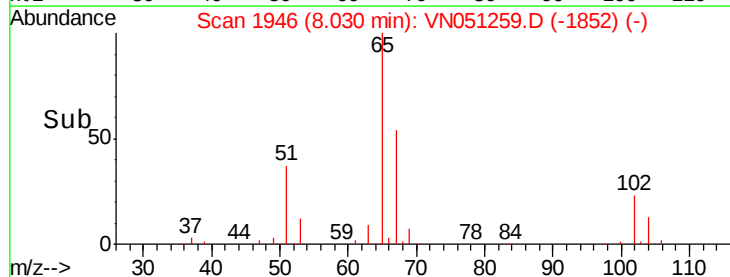
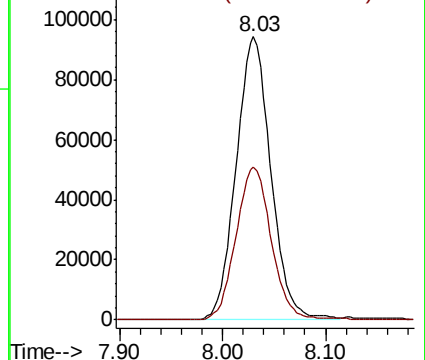
65 100

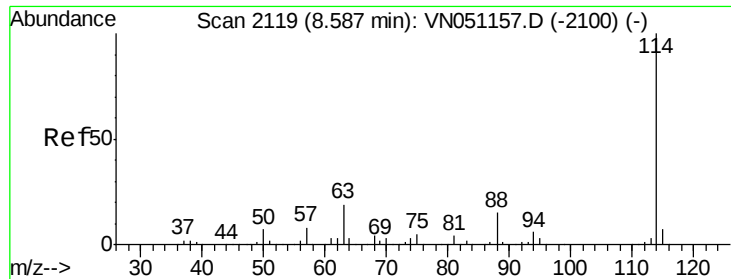
67 54.7 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

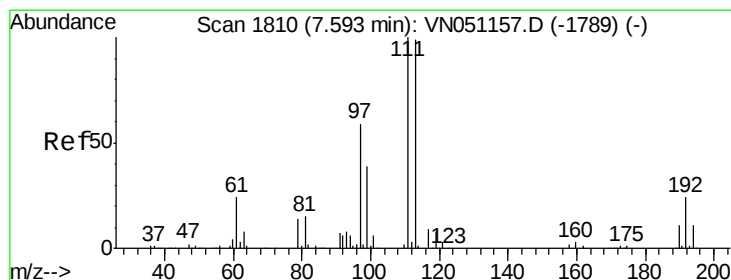
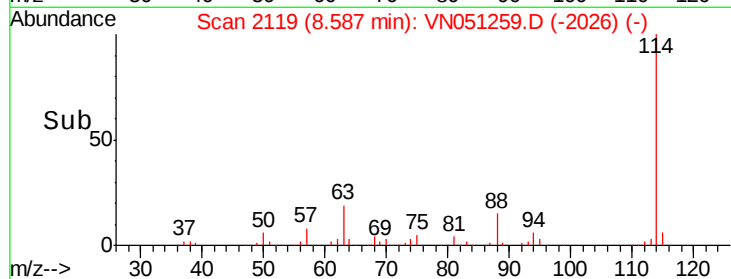
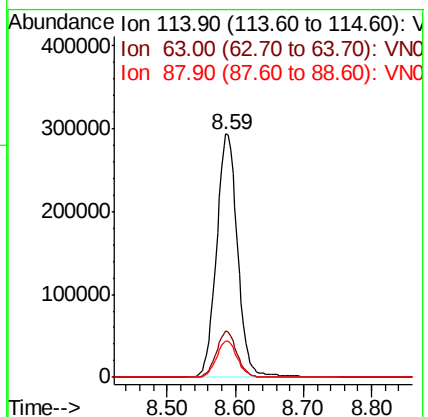
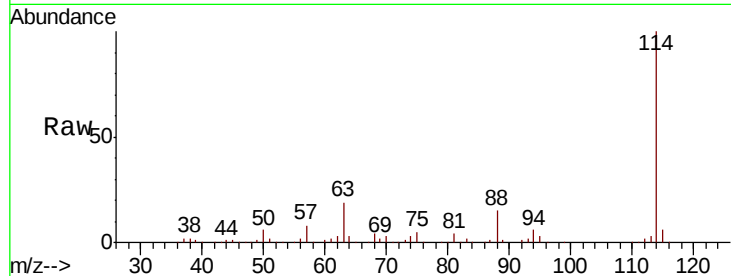




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051259.D
 Acq: 16 Sep 2018 7:02

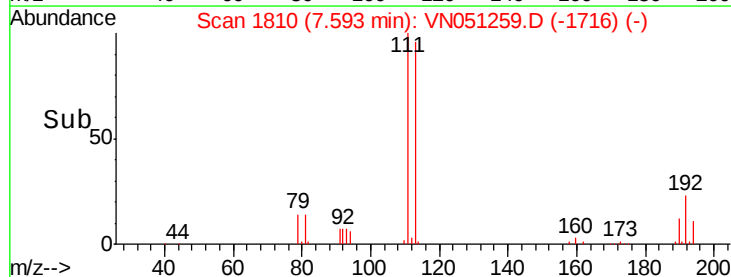
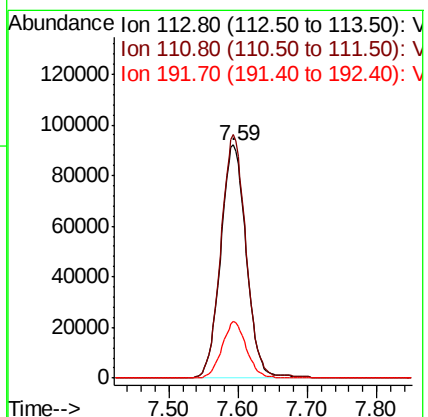
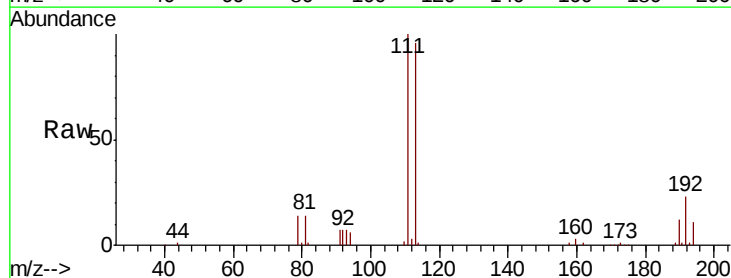
Instrument :
 MSVOA_N
 ClientSampleId :

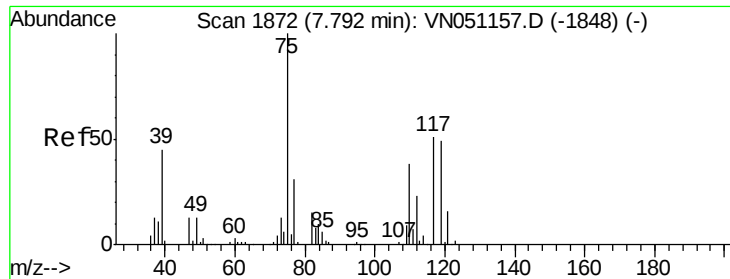
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	37.8
88	15.1	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 50.16 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051259.D
 Acq: 16 Sep 2018 7:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.0	124.6
192	23.1	18.7	28.1

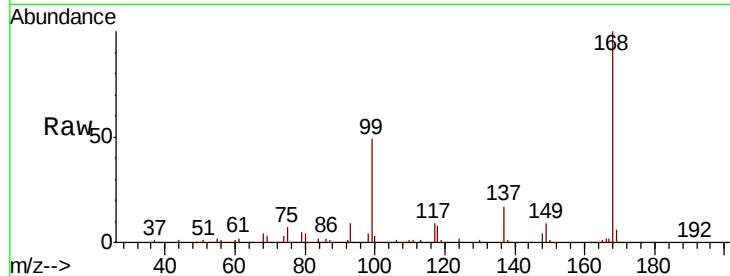




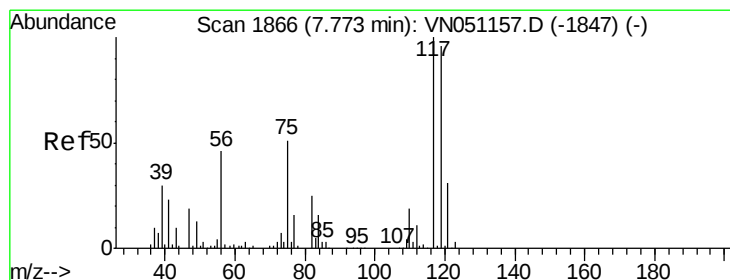
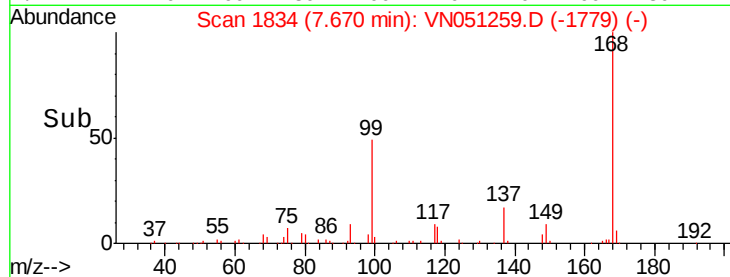
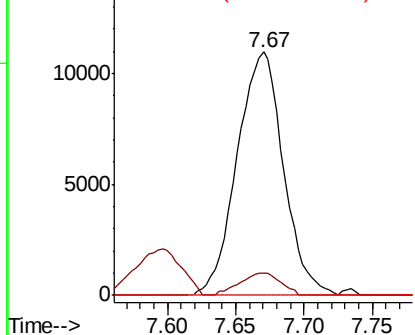
#36
 1,1-Dichloropropene
 Concen: 3.74 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051259.D
 Acq: 16 Sep 2018 7:02

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.6	55.8#
77	0.0	25.2	37.8#

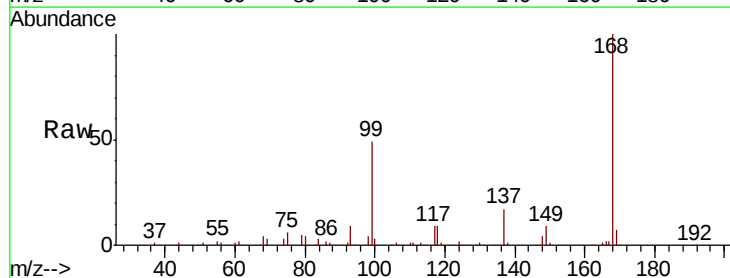


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

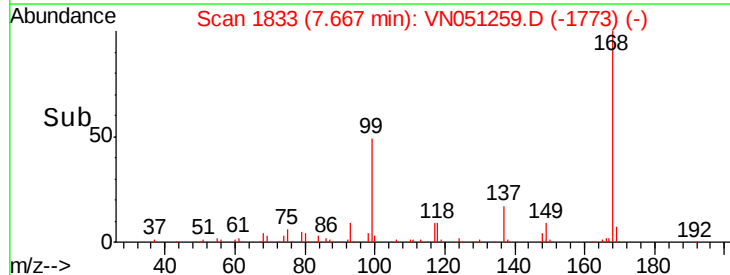
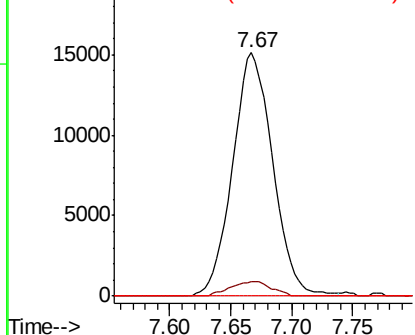


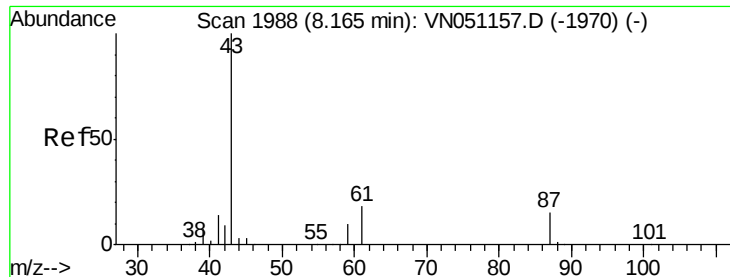
#38
 Carbon Tetrachloride
 Concen: 5.07 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051259.D
 Acq: 16 Sep 2018 7:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.8	115.2#
121	0.0	24.6	36.8#



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



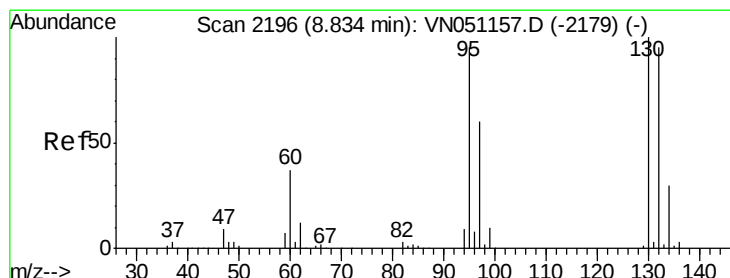
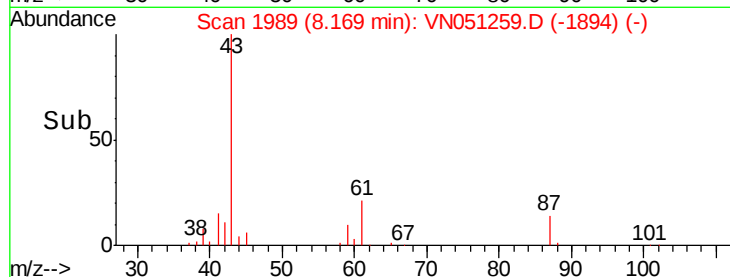
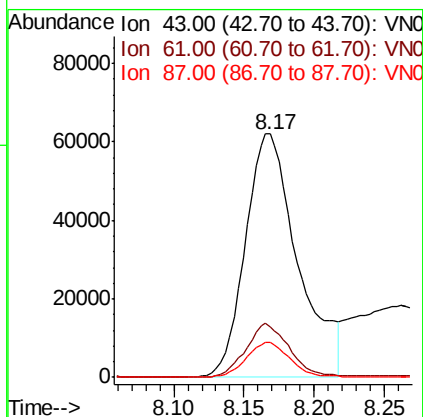
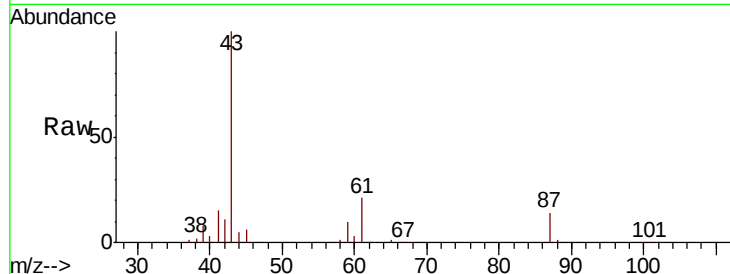


#43

Isopropyl Acetate
 Concen: 22.89 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.01 min
 Lab File: VN051259.D
 Acq: 16 Sep 2018 7:02

Instrument :
 MSVOA_N
 ClientSampled :

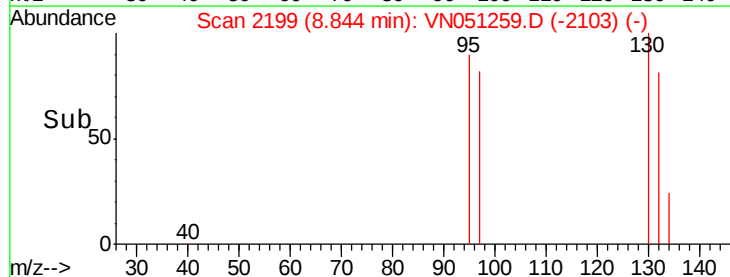
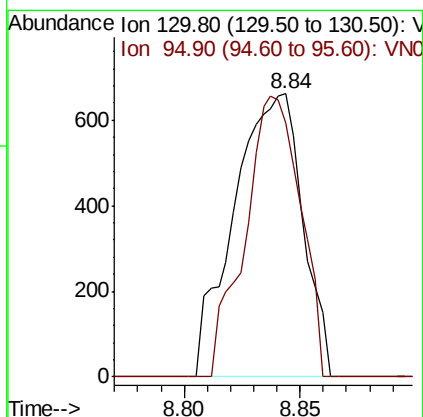
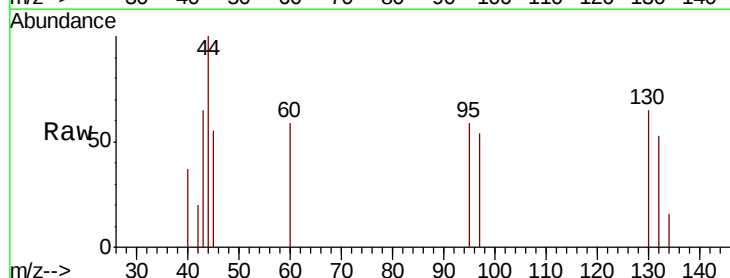
Tot Ion: 43 Resp: 161819
 Ion Ratio Lower Upper
 43 100
 61 18.5 25.0 37.6#
 87 11.9 11.8 17.8

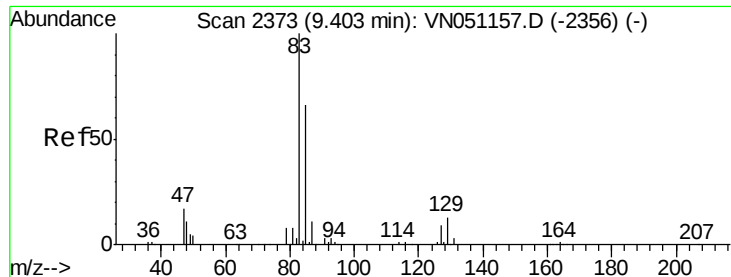


#44

Trichloroethene
 Concen: 0.24 ug/l
 RT: 8.84 min Scan# 2199
 Delta R.T. 0.01 min
 Lab File: VN051259.D
 Acq: 16 Sep 2018 7:02

Tgt Ion: 130 Resp: 1358
 Ion Ratio Lower Upper
 130 100
 95 89.9 0.0 186.2





#47

Bromodichloromethane

Concen: 0.45 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :

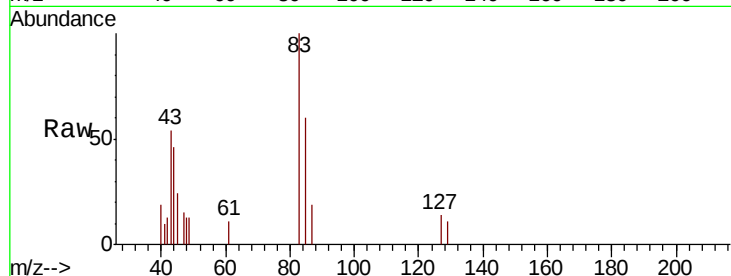
Tot Ion: 83 Resp: 3028

Ion Ratio Lower Upper

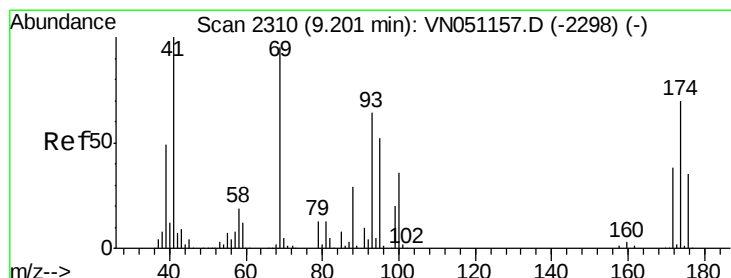
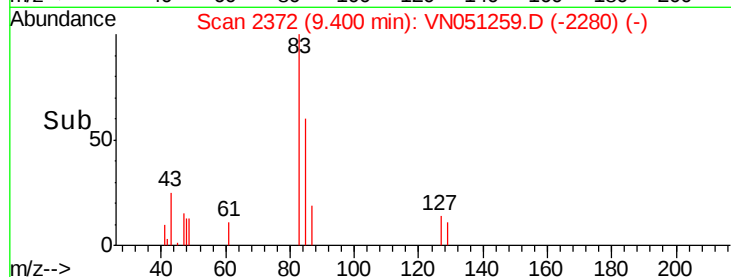
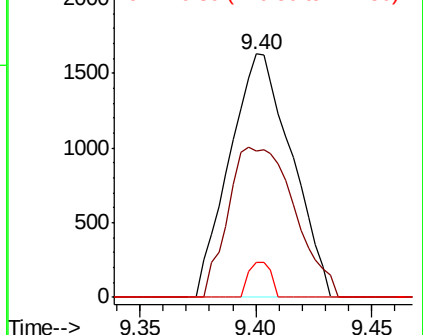
83 100

85 60.2 52.3 78.5

127 14.2 7.5 11.3#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 0.95 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

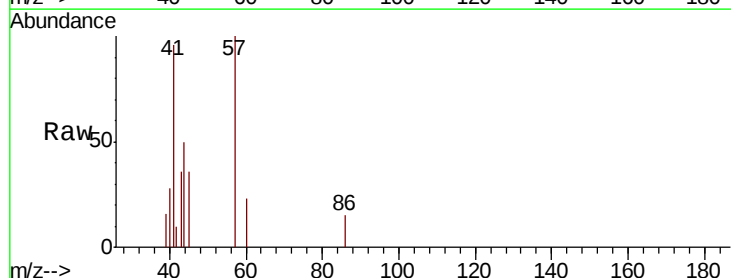
Tgt Ion: 41 Resp: 3265

Ion Ratio Lower Upper

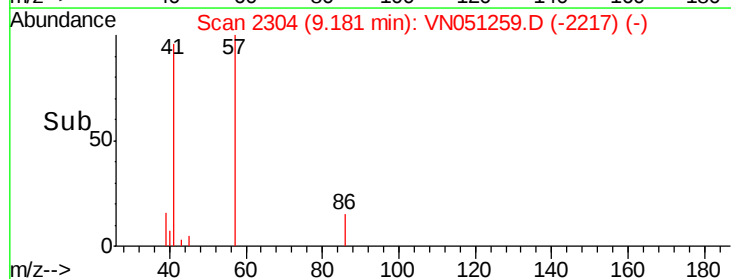
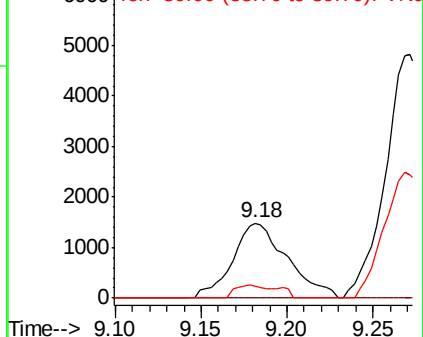
41 100

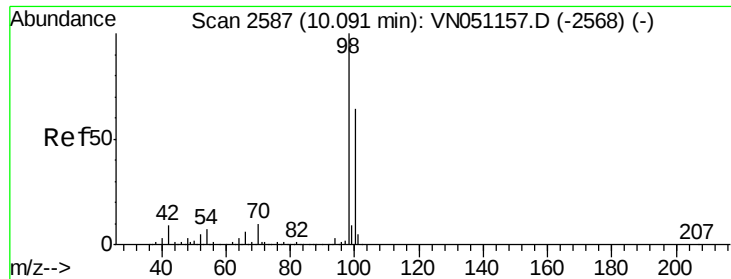
69 0.0 77.7 116.5#

39 9.1 41.6 62.4#



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





#50

Toluene-d8

Concen: 45.00 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

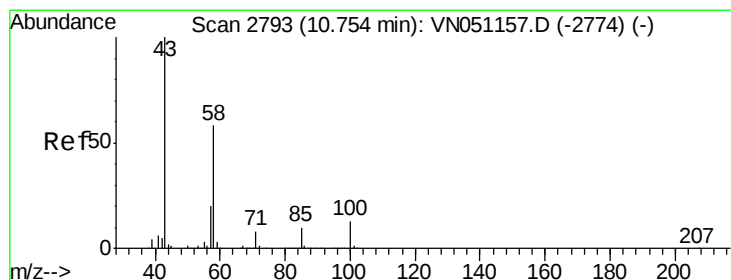
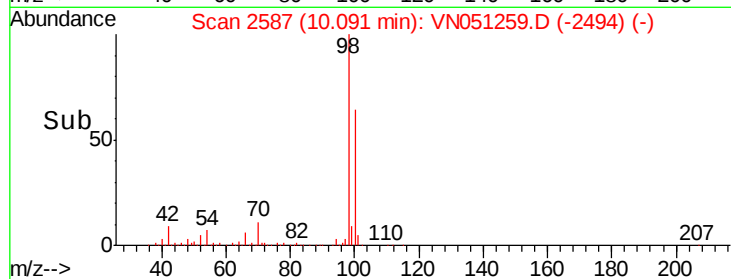
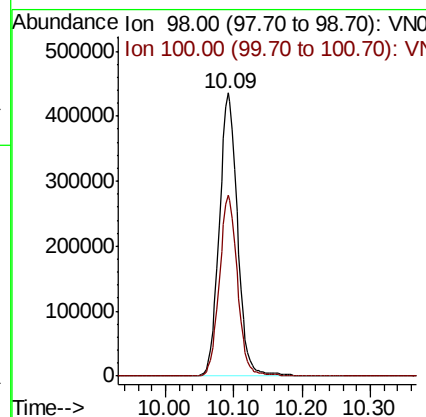
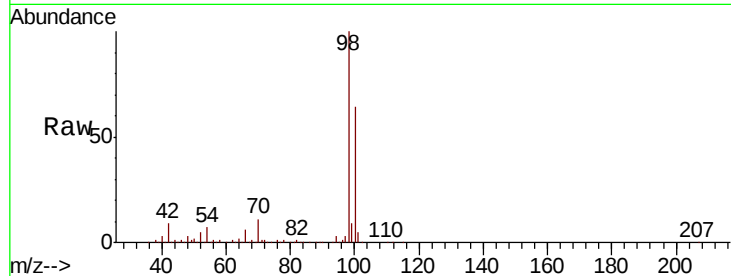
ClientSampleId :

Tot Ion: 98 Resp: 808619

Ion Ratio Lower Upper

98 100

100 63.4 52.0 78.0



#59

2-Hexanone

Concen: 1.38 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051259.D

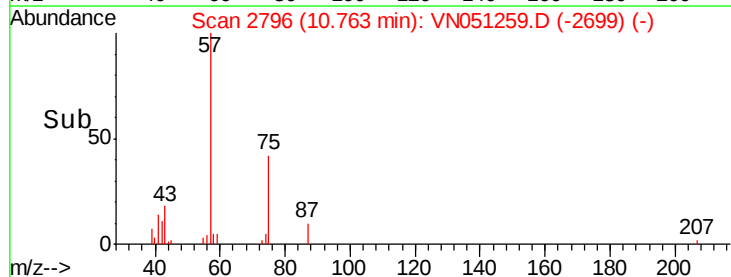
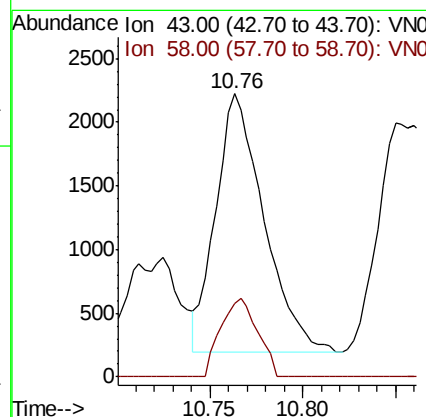
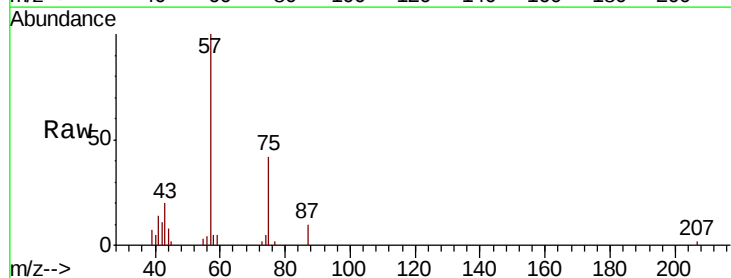
Acq: 16 Sep 2018 7:02

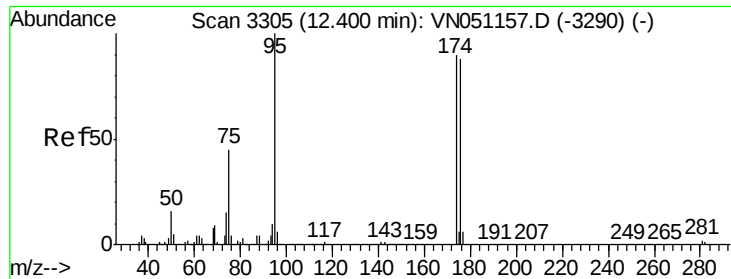
Tgt Ion: 43 Resp: 3658

Ion Ratio Lower Upper

43 100

58 23.2 29.3 88.0#





#62

4-Bromofluorobenzene

Concen: 32.97 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

ClientSampled :

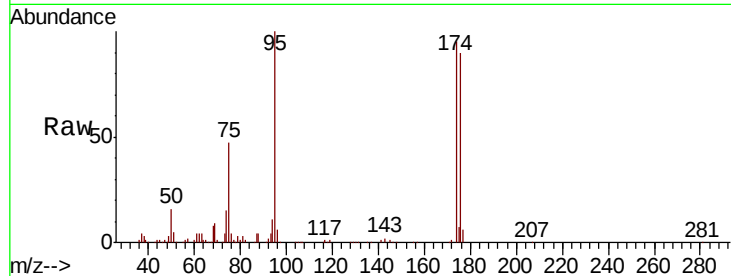
Tot Ion: 95 Resp: 195984

Ion Ratio Lower Upper

95 100

174 95.5 0.0 184.8

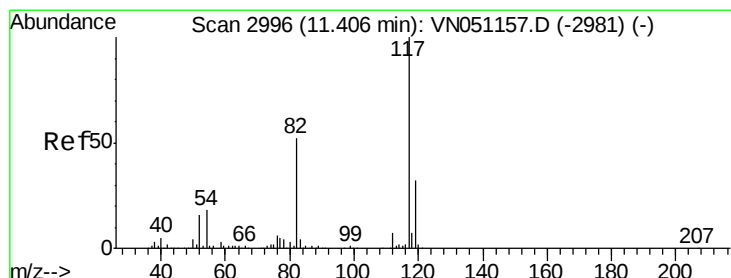
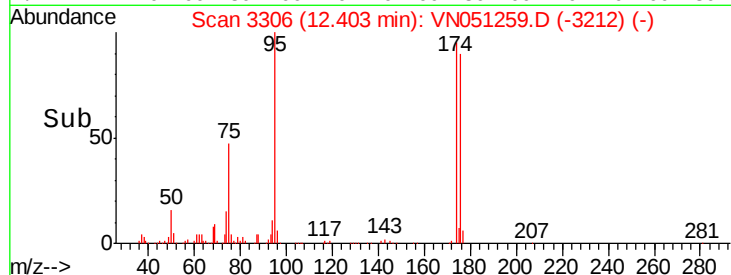
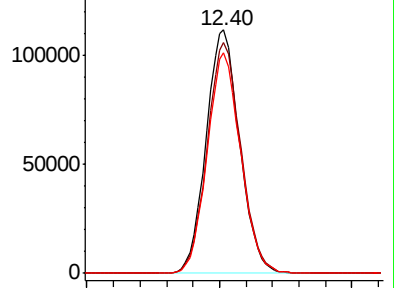
176 90.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051157.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051157.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051157.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

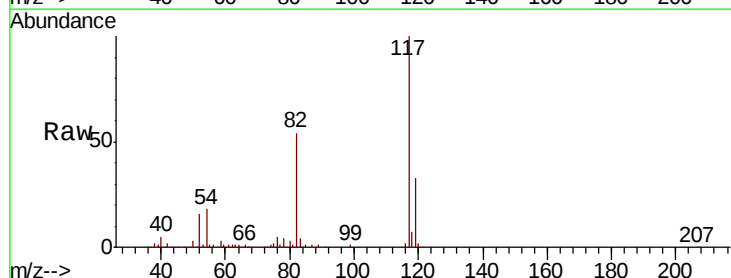
Tgt Ion: 117 Resp: 493630

Ion Ratio Lower Upper

117 100

82 53.8 41.8 62.6

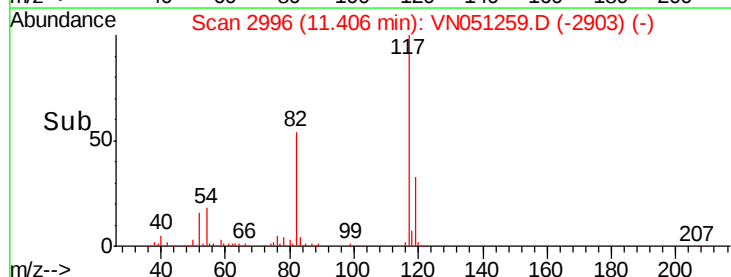
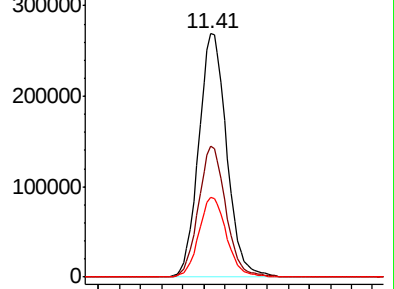
119 32.6 26.2 39.2

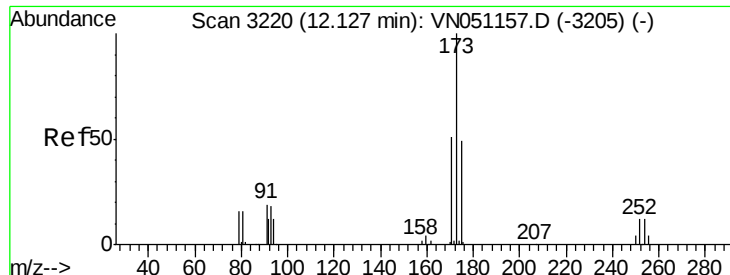


Abundance Ion 116.90 (116.60 to 117.60): VN051157.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051157.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051157.D (-2981) (-)





#71

Bromoform

Concen: 0.32 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

ClientSampled :

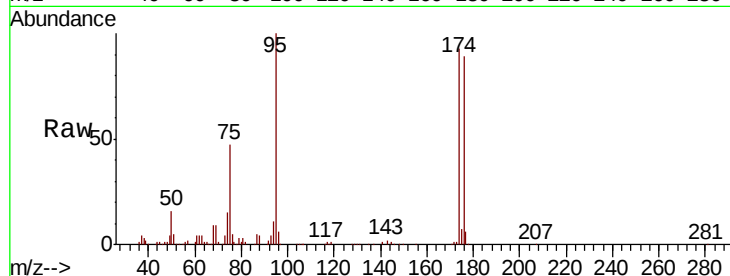
Tot Ion:173 Resp: 994

Ion Ratio Lower Upper

173 100

175 1141.2 24.3 72.9#

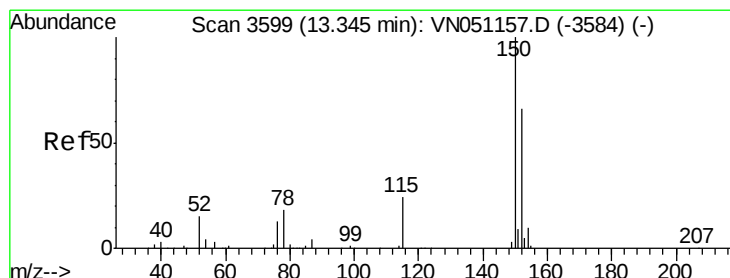
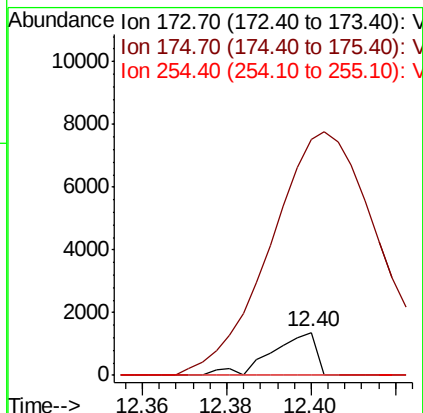
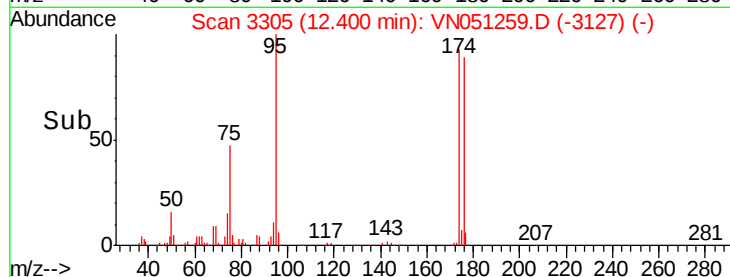
254 0.0 0.0 0.0



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# 3599

Delta R.T. 0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

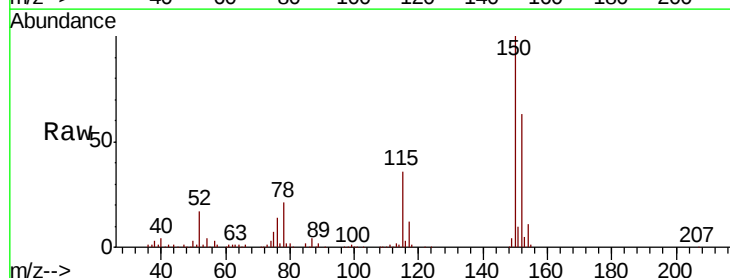
Tgt Ion:152 Resp: 135262

Ion Ratio Lower Upper

152 100

115 56.5 28.2 84.7

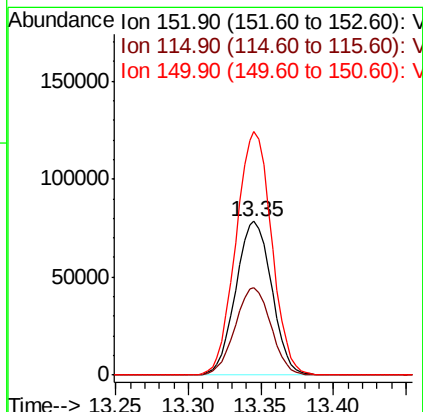
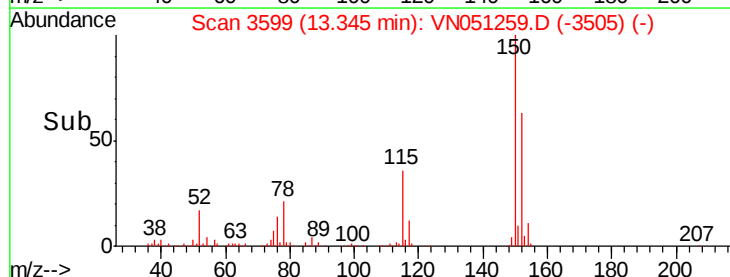
150 157.5 0.0 349.0

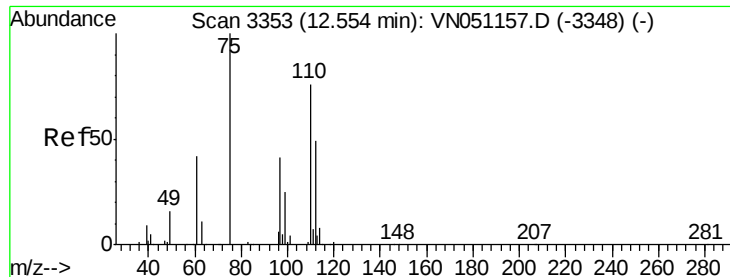


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 43.40 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

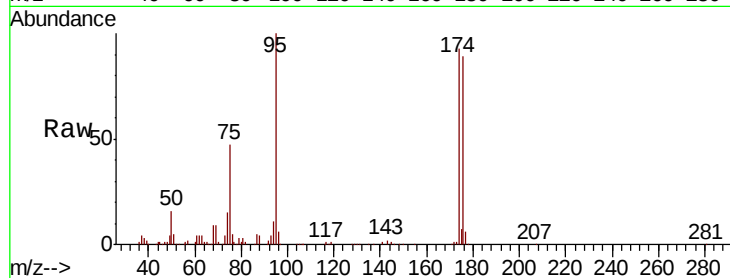
ClientSampled :

Tot Ion: 75 Resp: 91418

Ion Ratio Lower Upper

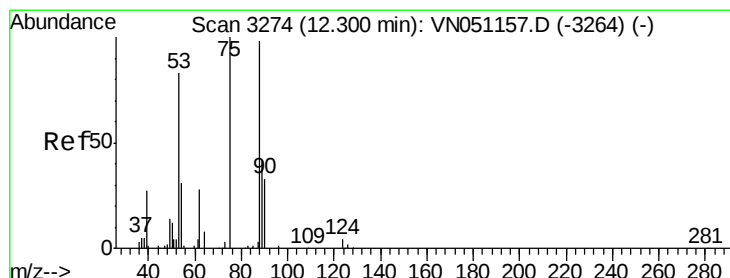
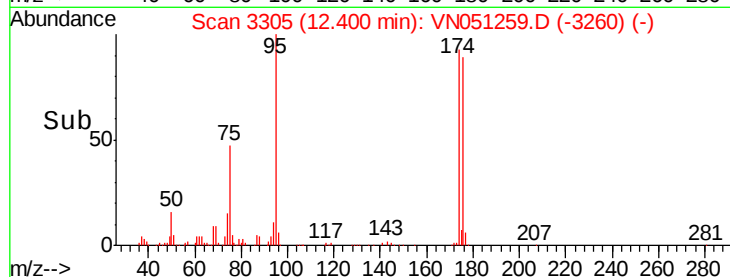
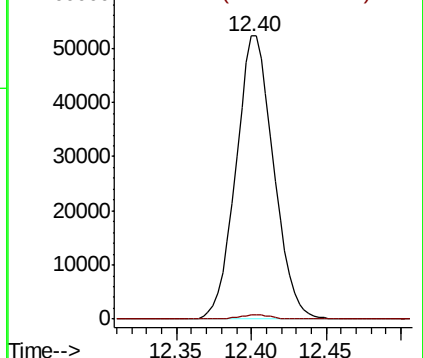
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 128.36 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

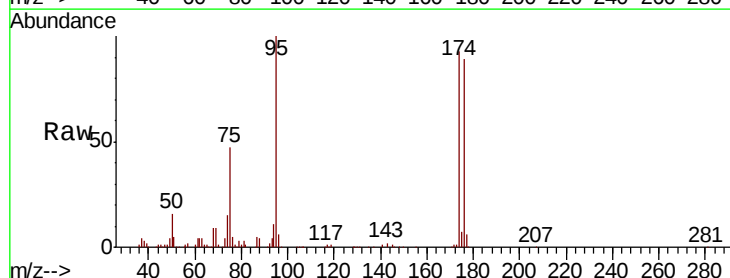
Tgt Ion: 75 Resp: 91418

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

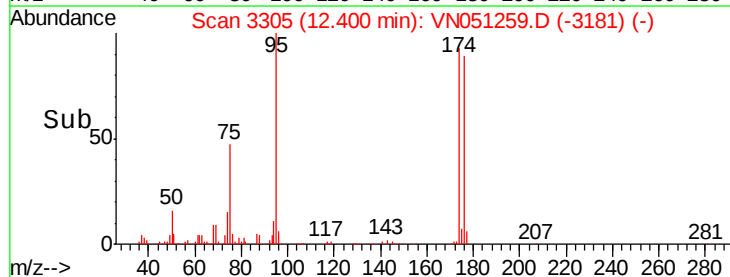
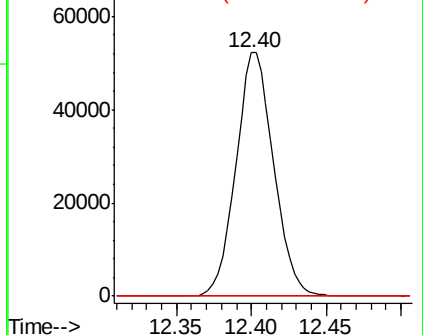
89 0.0 36.0 54.0#

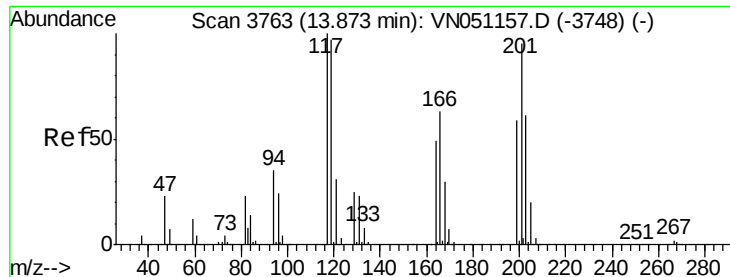


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

Instrument :

MSVOA_N

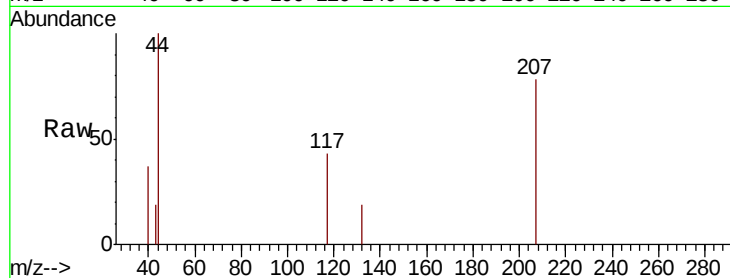
ClientSampleId :

Tot Ion:117 Resp: 489

Ion Ratio Lower Upper

117 100

201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

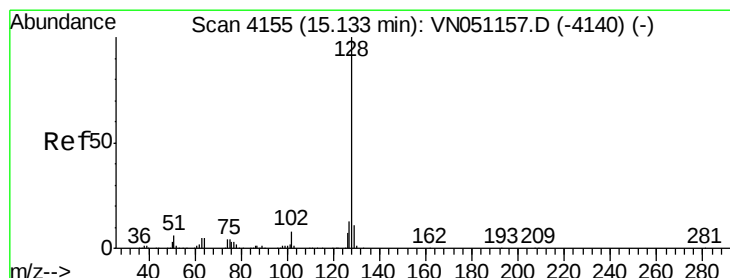
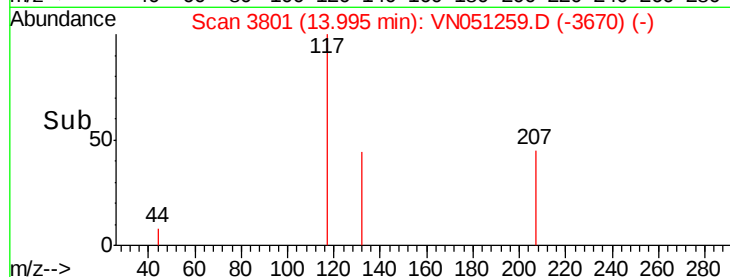
300

200

100

0

Time--> 13.96 13.98 14.00 14.02



#95

Naphthalene

Concen: 6.61 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051259.D

Acq: 16 Sep 2018 7:02

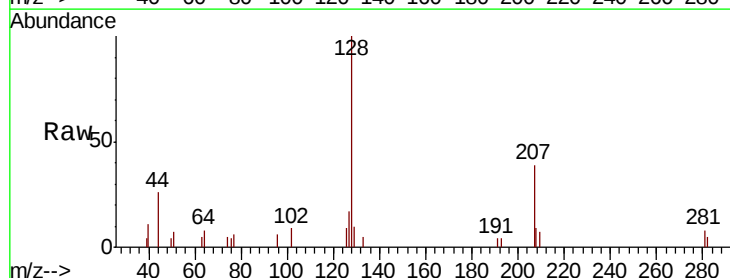
Tgt Ion:128 Resp: 7222

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 12.6 8.6 12.8



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

5000

4000

3000

2000

1000

0

Time--> 15.10 15.15

