

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050653.D
 Acq On : 15 Aug 2018 14:24
 Operator : MD\SY
 Sample : J4465-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 943-MW-04(23)

Quant Time: Aug 16 01:29:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	614072	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	948885	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	851637	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311081	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	407522	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
35) Dibromofluoromethane	7.59	113	382511	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
50) Toluene-d8	10.09	98	1362460	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
62) 4-Bromofluorobenzene	12.40	95	377861	40.12	ug/l	0.00
Spiked Amount			Recovery	=	80.24%	

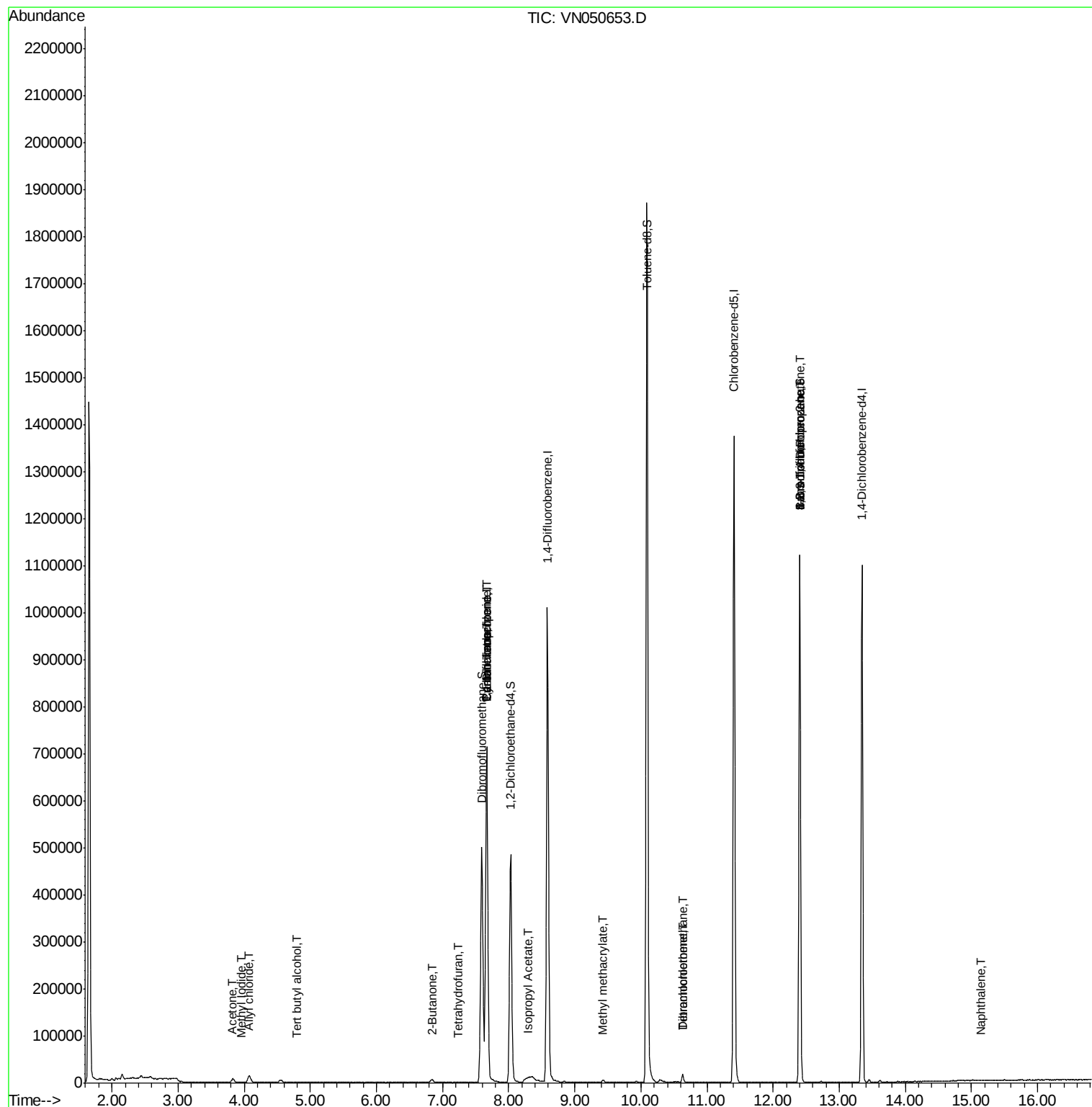
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2744	Below Cal	#	85
5) Bromomethane	2.57	94	2995	Below Cal	#	96
6) Chloroethane	2.69	64	61	Below Cal	#	43
10) Methyl Iodide	3.95	142	467	7.03	ug/l	88
11) Tert butyl alcohol	4.79	59	97	0.23	ug/l	72
14) Allyl chloride	4.07	41	2619	0.25	ug/l	72
16) Acetone	3.82	43	13204	5.41	ug/l	90
18) Methyl Acetate	4.33	43	2553	Below Cal	#	61
20) Methylene Chloride	4.55	84	5017	Below Cal	#	77
25) 2-Butanone	6.85	43	2647	0.83	ug/l	82
29) Tetrahydrofuran	7.22	42	383	0.23	ug/l	33
31) Cyclohexane	7.66	56	13854	0.84	ug/l	5
36) 1,1-Dichloropropene	7.67	75	42180	3.99	ug/l	48
38) Carbon Tetrachloride	7.67	117	54789	5.00	ug/l	17
43) Isopropyl Acetate	8.28	43	8390	0.77	ug/l	60
48) Methyl methacrylate	9.43	41	2232	0.41	ug/l	29
60) Dibromochloromethane	10.63	129	3604	0.46	ug/l	10
64) Tetrachloroethene	10.63	164	3893	0.49	ug/l	93
71) Bromoform	12.40	173	3325	0.63	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.39	83	183	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	181091	35.74	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181091	129.42	ug/l	13
95) Naphthalene	15.14	128	984	3.94	ug/l	69

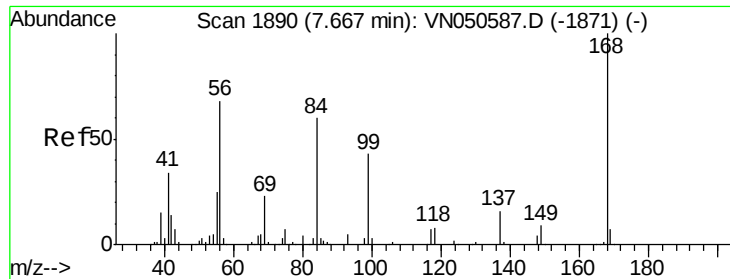
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

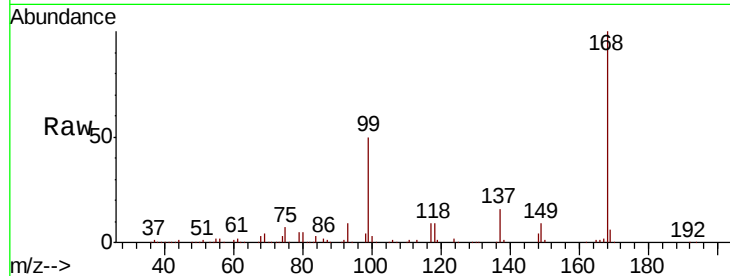
943-MW-04(23)

Tot Ion:168 Resp: 614072

Ion Ratio Lower Upper

168 100

99 50.1 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

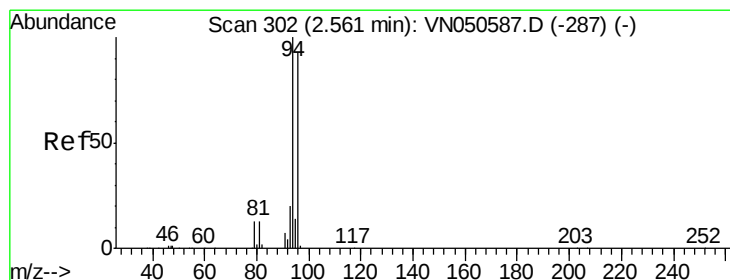
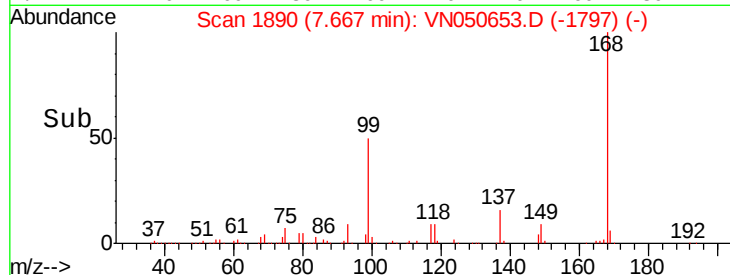
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050653.D

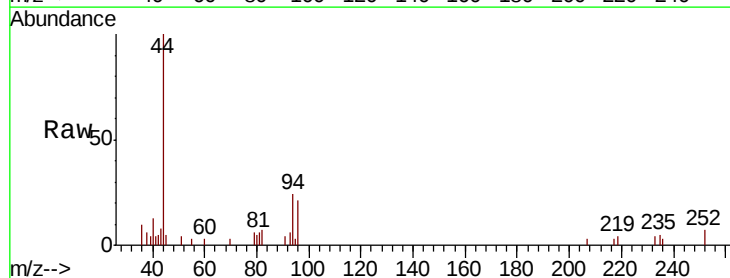
Acq: 15 Aug 2018 14:24

Tgt Ion: 94 Resp: 2995

Ion Ratio Lower Upper

94 100

96 88.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

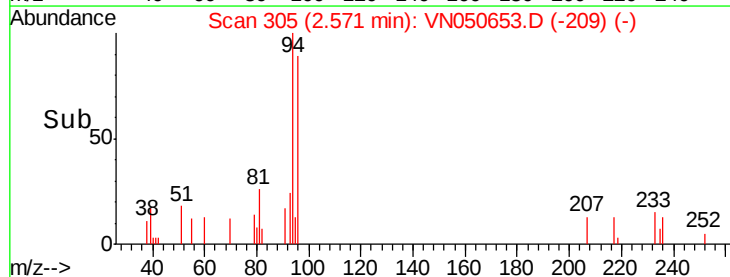
1500

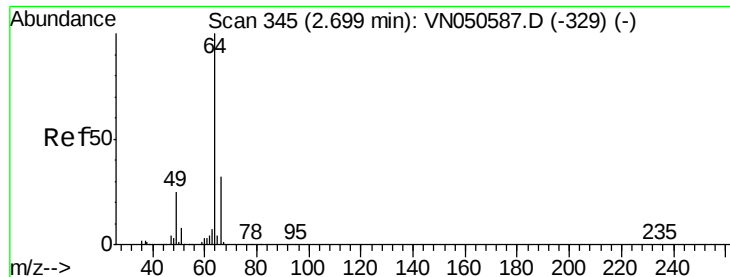
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

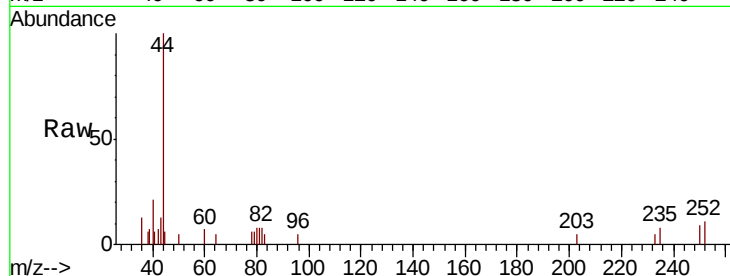
943-MW-04(23)

Tot Ion: 64 Resp: 61

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

2.69

150

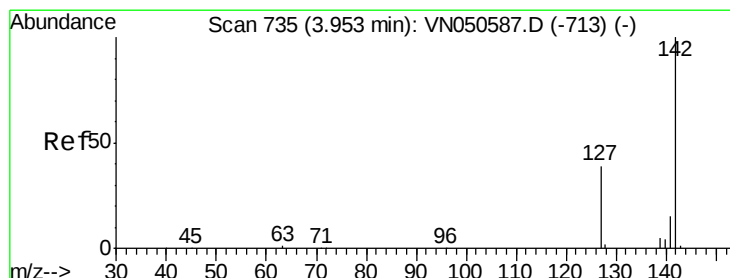
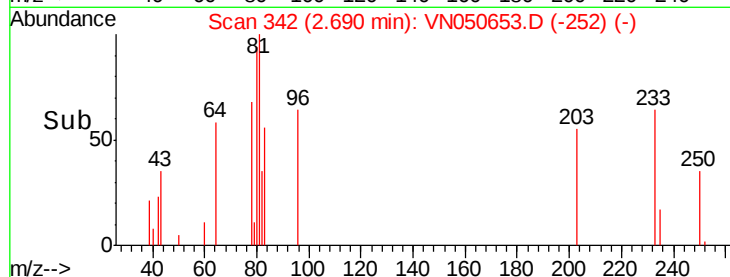
100

50

0

2.68 2.69 2.70

Time-->



#10

Methyl Iodide

Concen: 7.03 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

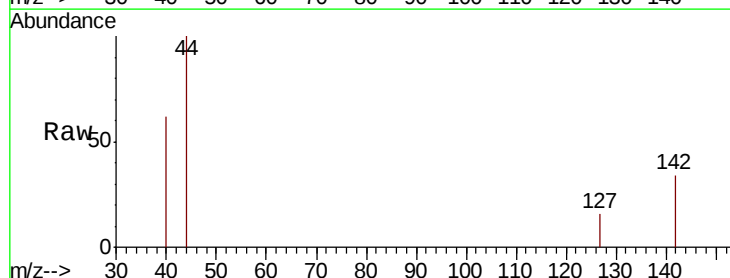
Tgt Ion: 142 Resp: 467

Ion Ratio Lower Upper

142 100

127 43.0 32.6 49.0

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

600

500

400

300

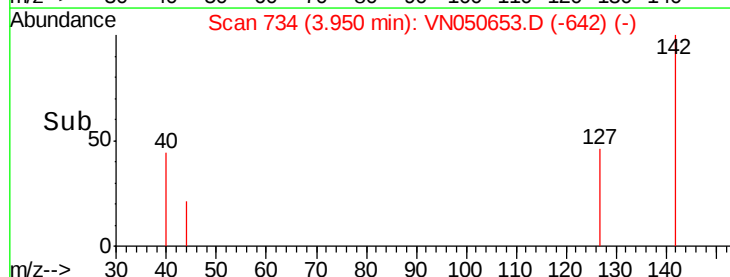
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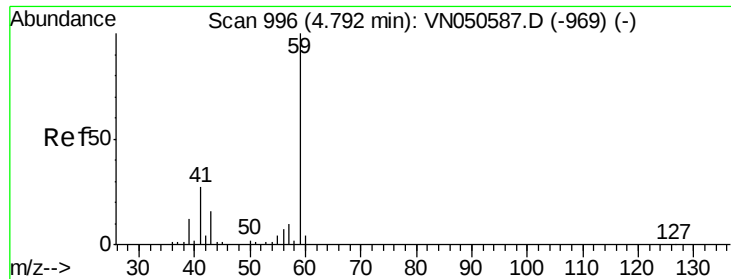
100

0

3.92 3.94 3.96

Time-->

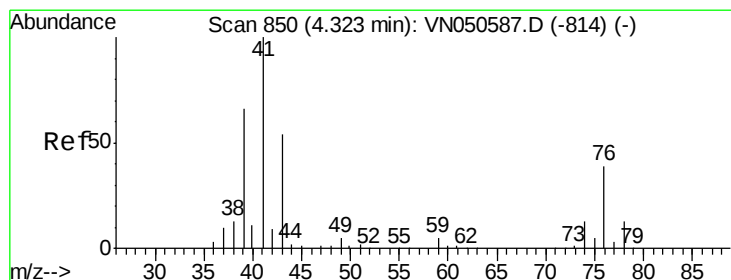
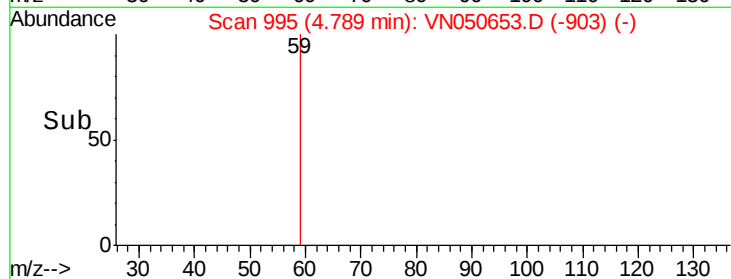
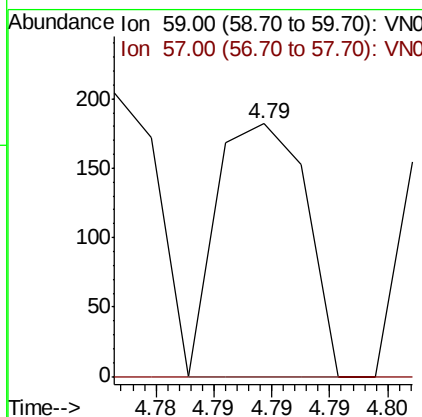
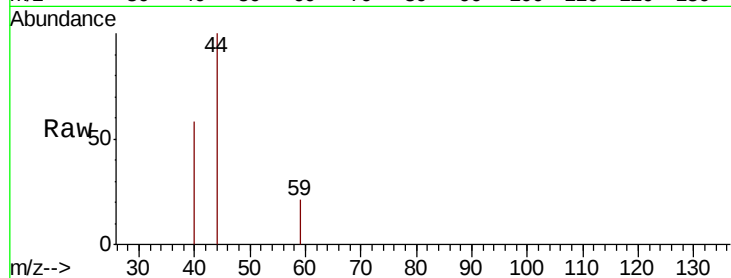




#11
Tert butyl alcohol
Concen: 0.23 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.00 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

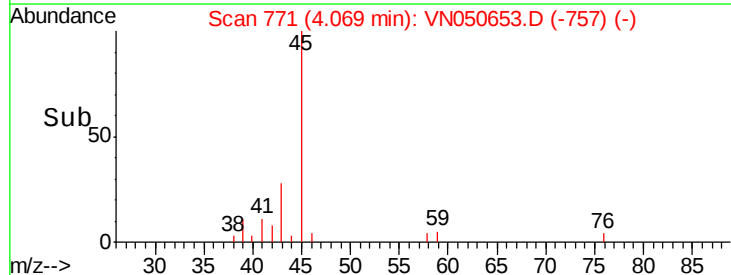
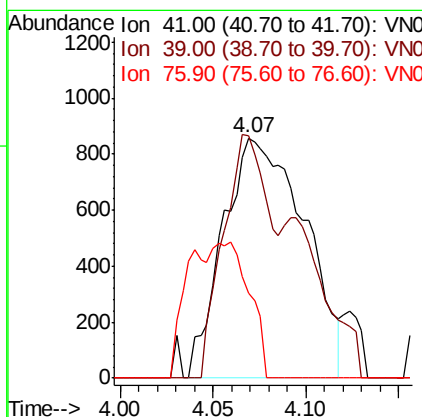
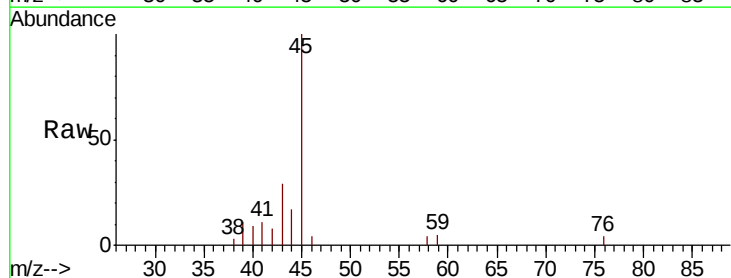
Instrument :
MSVOA_N
ClientSampleId :
943-MW-04(23)

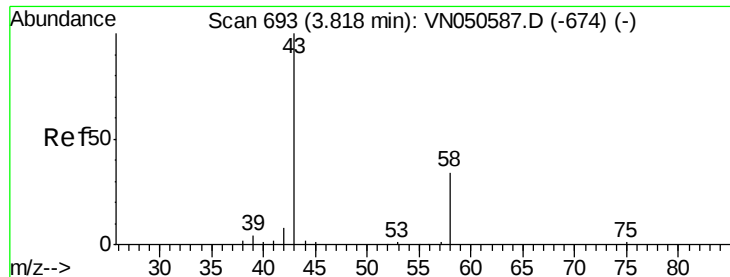
Tot Ion: 59 Resp: 97
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#14
Allyl chloride
Concen: 0.25 ug/l
RT: 4.07 min Scan# 771
Delta R.T. -0.25 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Tgt Ion: 41 Resp: 2619
Ion Ratio Lower Upper
41 100
39 57.4 51.4 77.0
76 0.0 29.4 44.0#





#16

Acetone

Concen: 5.41 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

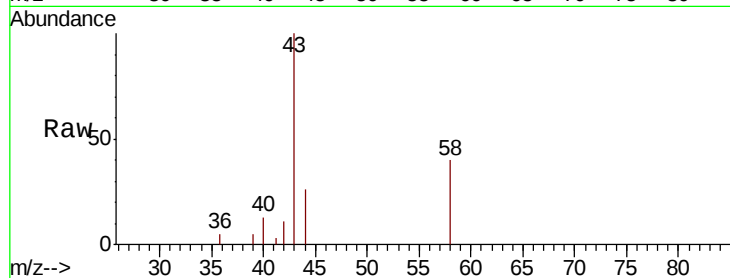
943-MW-04(23)

Tot Ion: 43 Resp: 13204

Ion Ratio Lower Upper

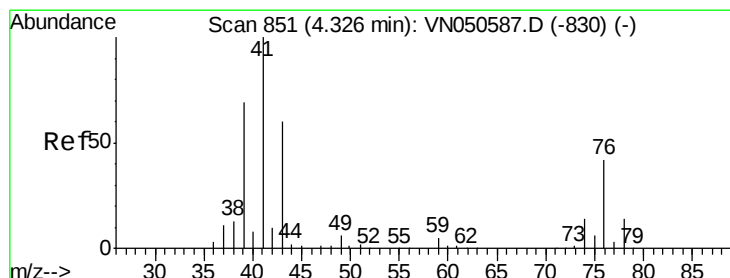
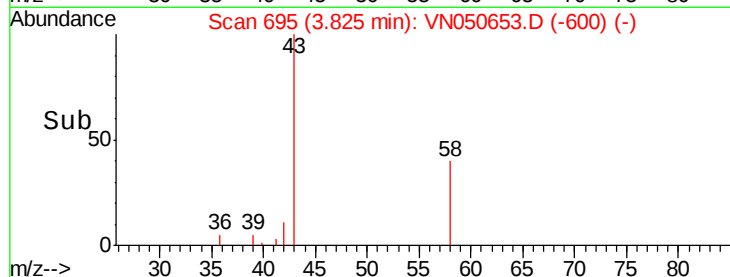
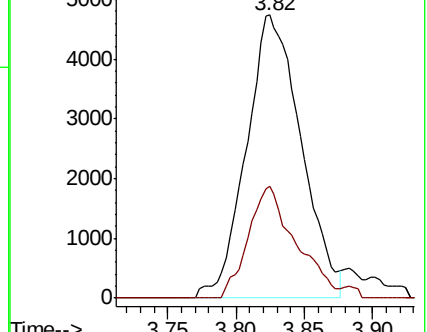
43 100

58 39.6 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN050653.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN050653.D (-600) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN050653.D

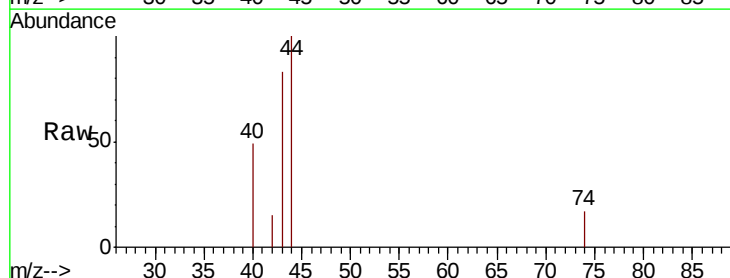
Acq: 15 Aug 2018 14:24

Tgt Ion: 43 Resp: 2553

Ion Ratio Lower Upper

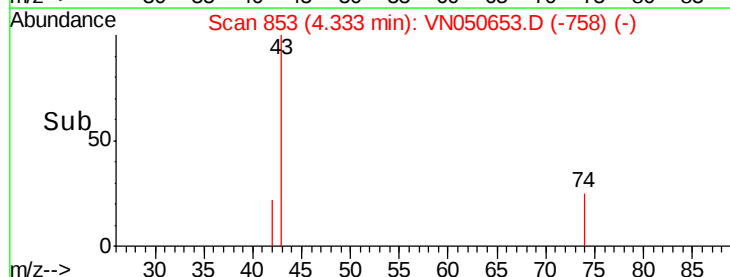
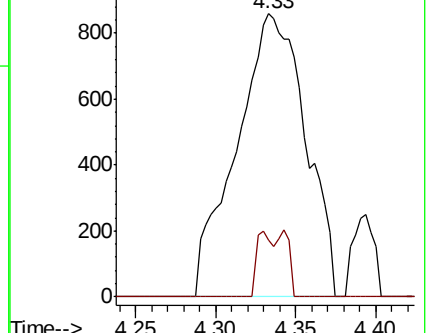
43 100

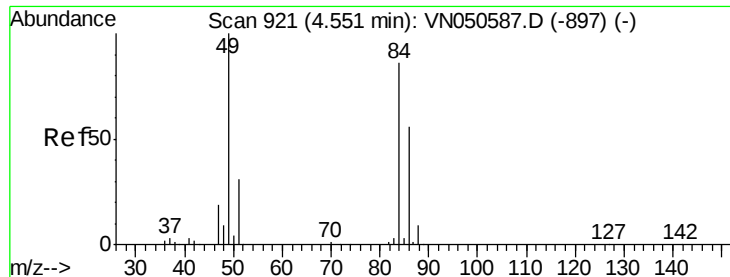
74 5.4 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN050653.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN050653.D (-758) (-)

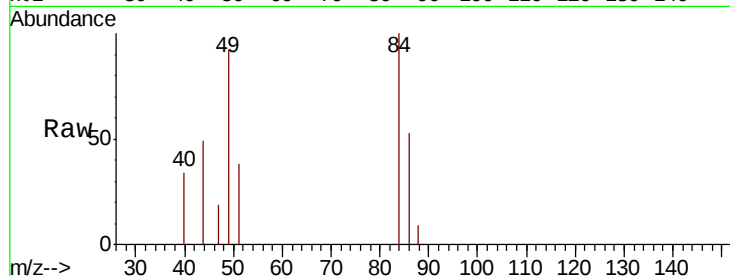




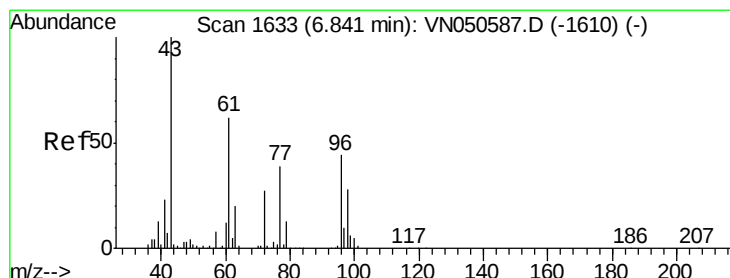
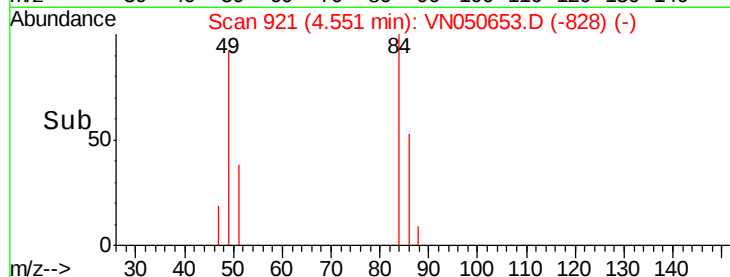
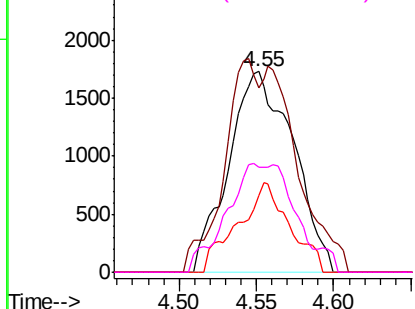
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Instrument :
MSVOA_N
ClientSampleId :
943-MW-04(23)

Tot Ion: 84 Resp: 5017
Ion Ratio Lower Upper
84 100
49 79.9 92.6 138.8#
51 38.4 28.6 43.0
86 52.6 52.2 78.2

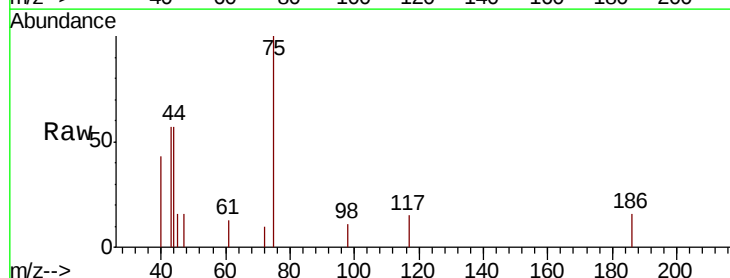


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

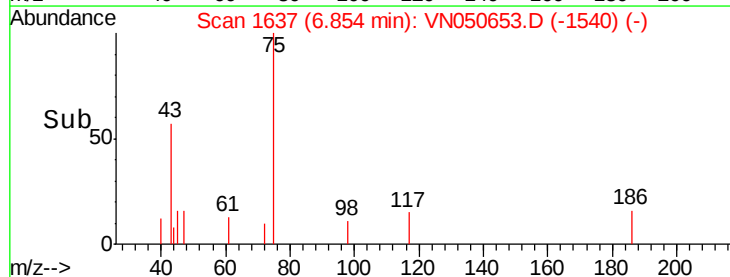
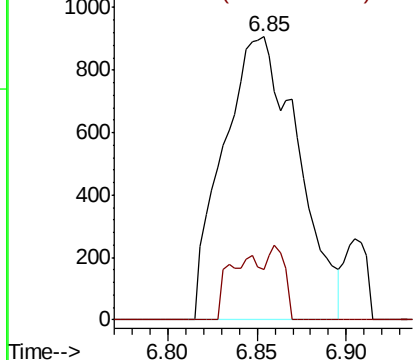


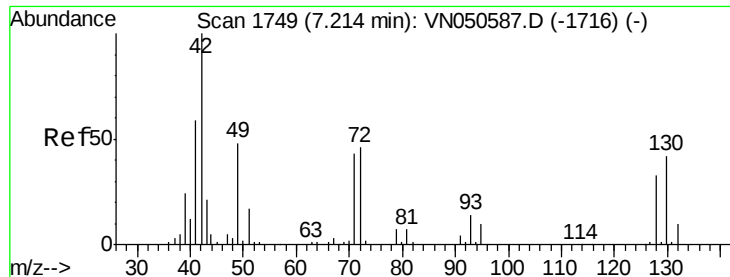
#25
2-Butanone
Concen: 0.83 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Tgt Ion: 43 Resp: 2647
Ion Ratio Lower Upper
43 100
72 17.9 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.23 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

943-MW-04(23)

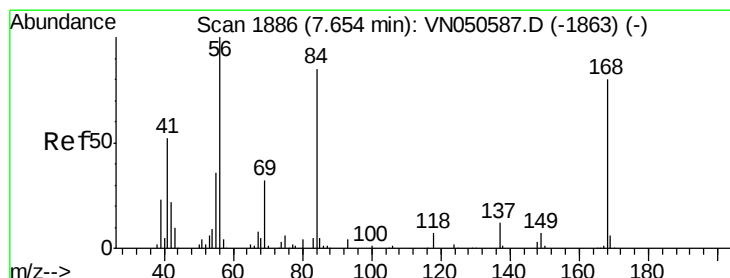
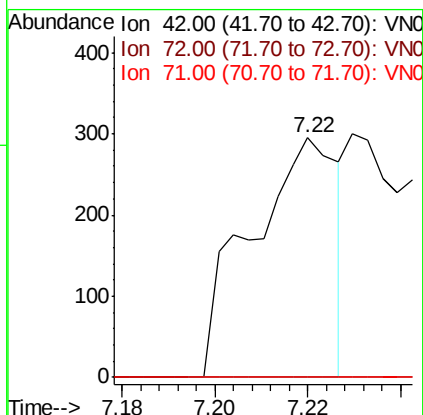
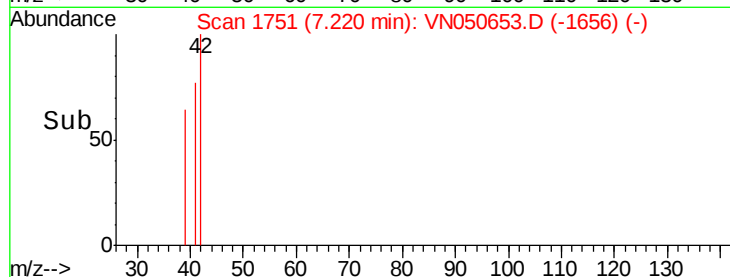
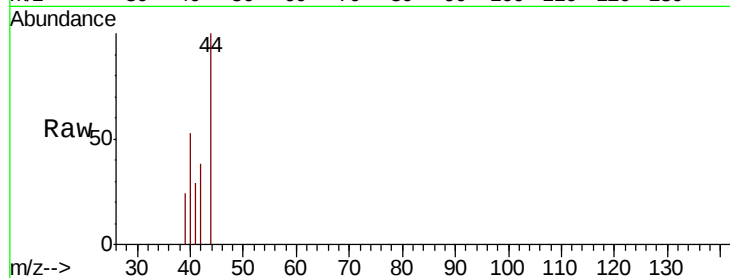
Tot Ion: 42 Resp: 383

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.6#

71 0.0 33.4 50.0#



#31

Cyclohexane

Concen: 0.84 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

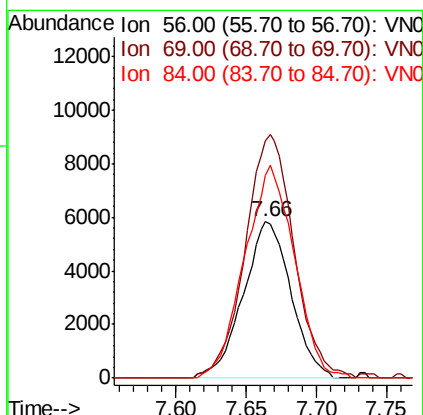
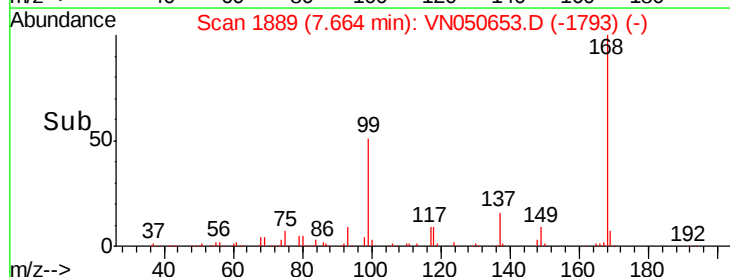
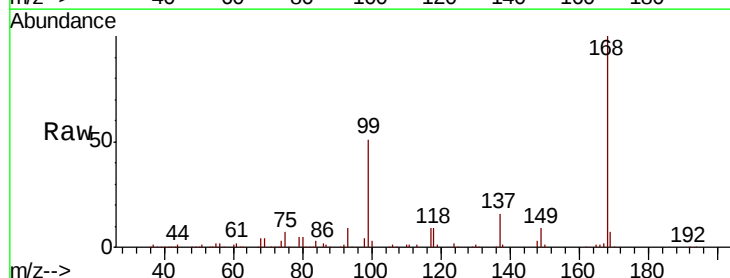
Tgt Ion: 56 Resp: 13854

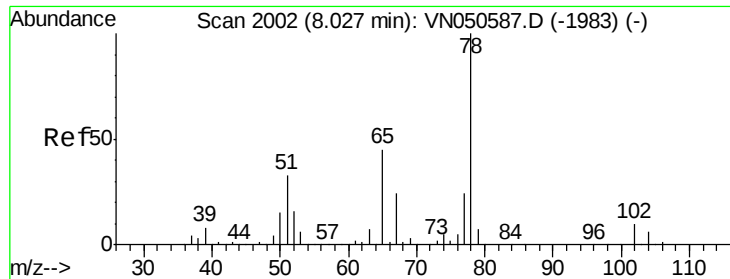
Ion Ratio Lower Upper

56 100

69 151.7 25.8 38.6#

84 130.0 67.8 101.6#

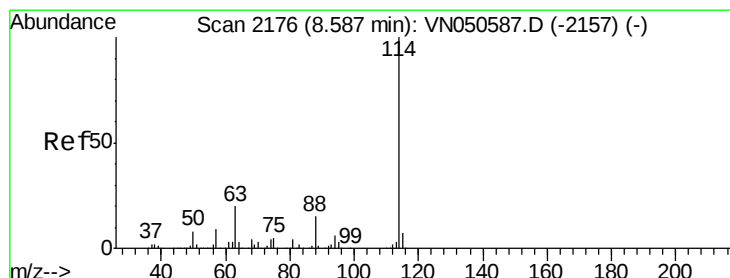
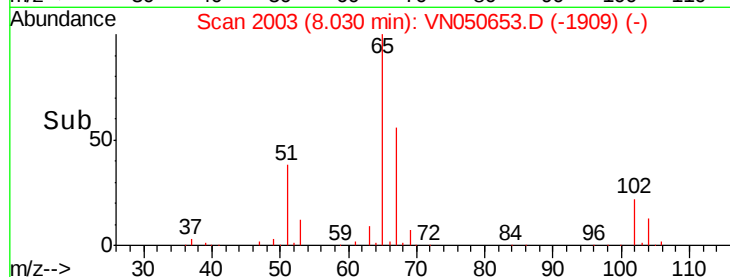
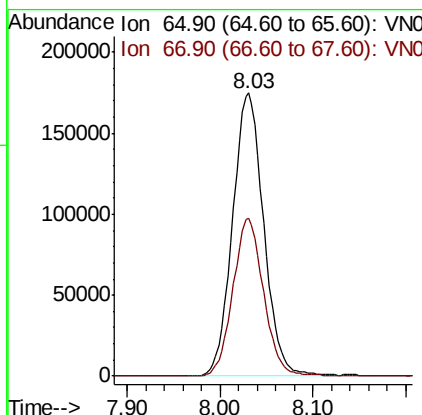
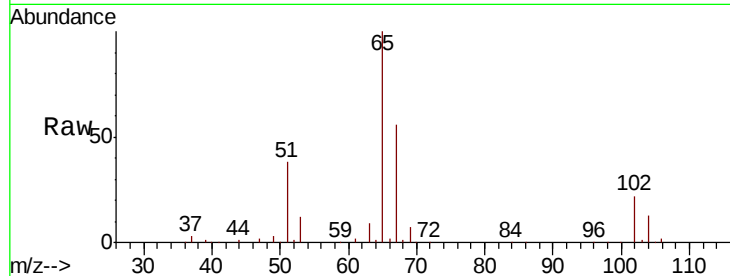




#33
 1,2-Dichloroethane-d4
 Concen: 52.65 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050653.D
 Acq: 15 Aug 2018 14:24

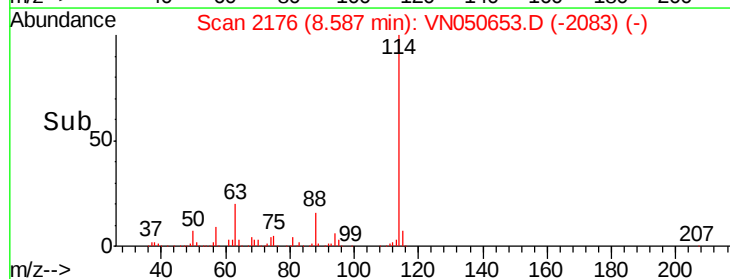
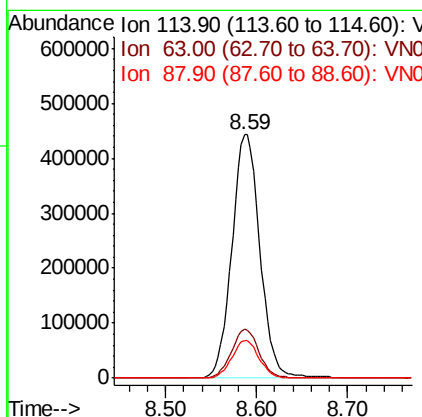
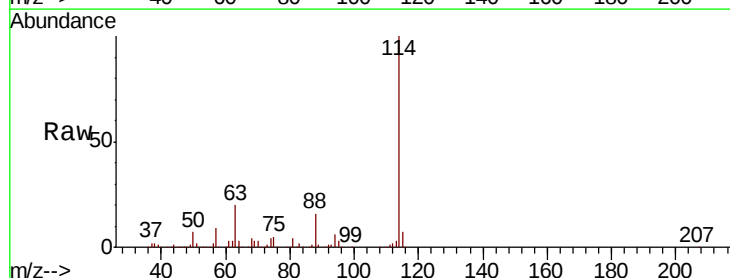
Instrument :
 MSVOA_N
 ClientSampleId :
 943-MW-04(23)

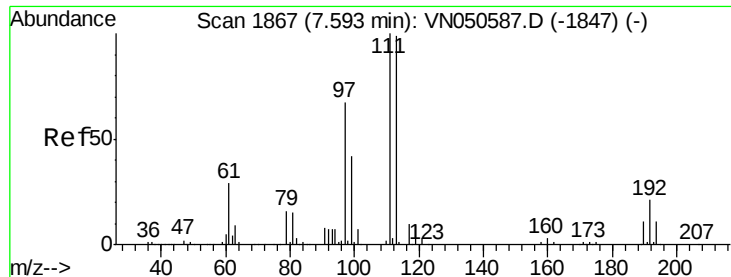
Tot Ion: 65 Resp: 407522
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050653.D
 Acq: 15 Aug 2018 14:24

Tgt Ion: 114 Resp: 948885
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.49 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

943-MW-04(23)

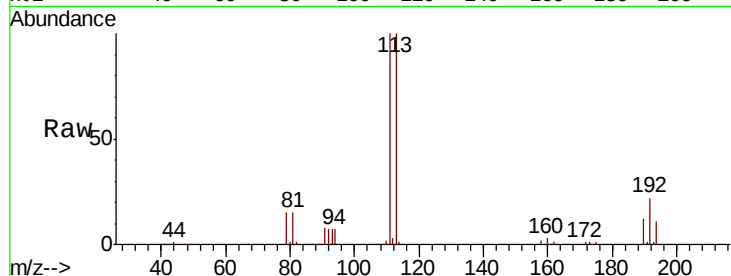
Tot Ion:113 Resp: 382511

Ion Ratio Lower Upper

113 100

111 101.3 81.0 121.6

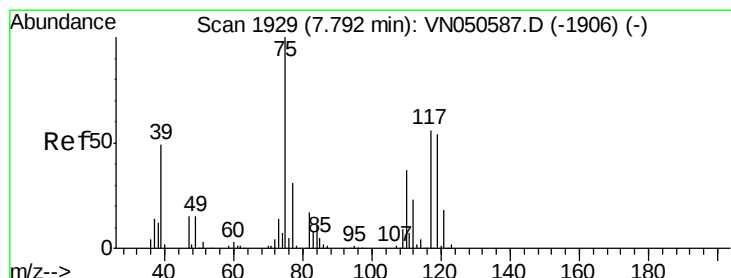
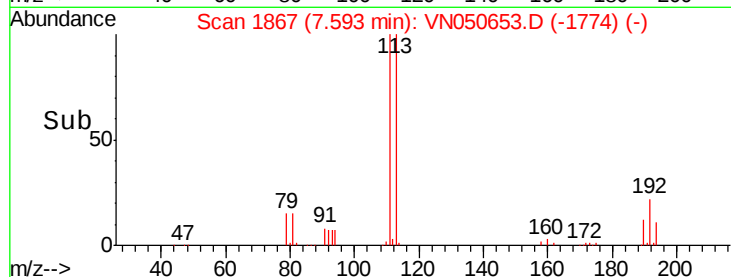
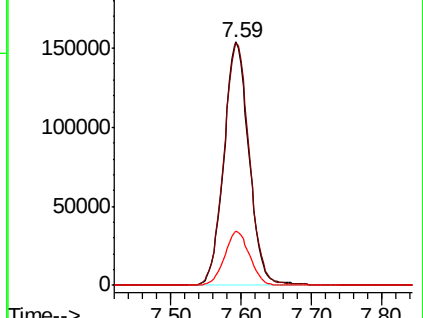
192 22.2 17.6 26.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.99 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

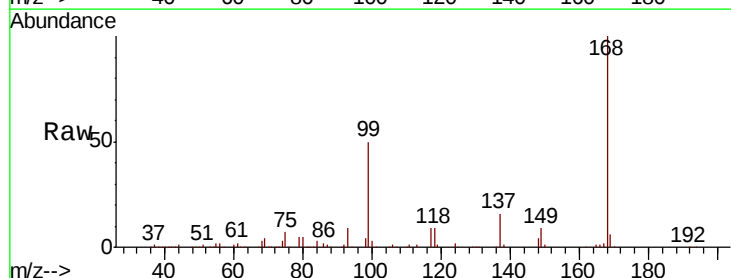
Tgt Ion: 75 Resp: 42180

Ion Ratio Lower Upper

75 100

110 7.6 18.3 54.9#

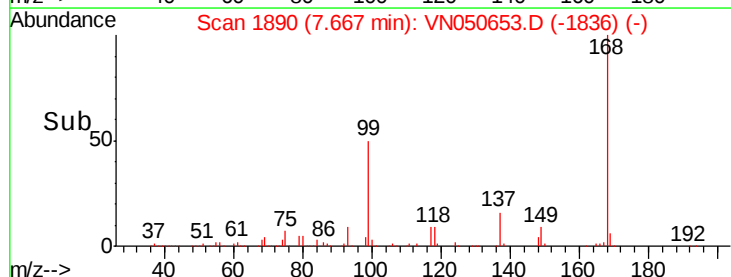
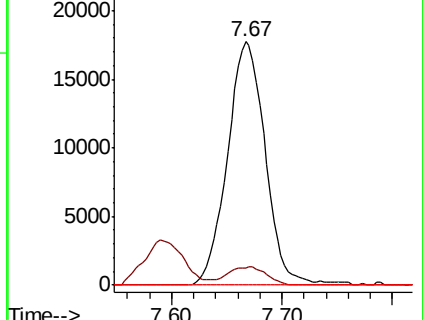
77 0.0 25.0 37.4#

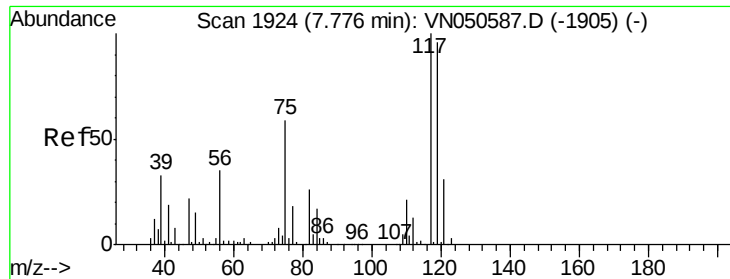


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

943-MW-04(23)

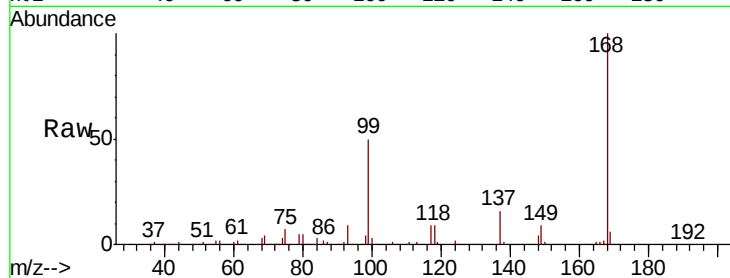
Tot Ion:117 Resp: 54789

Ion Ratio Lower Upper

117 100

119 6.8 76.6 115.0#

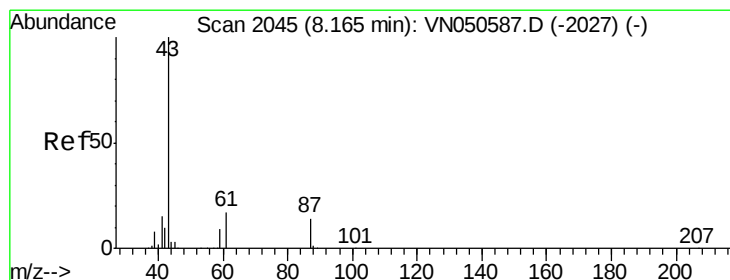
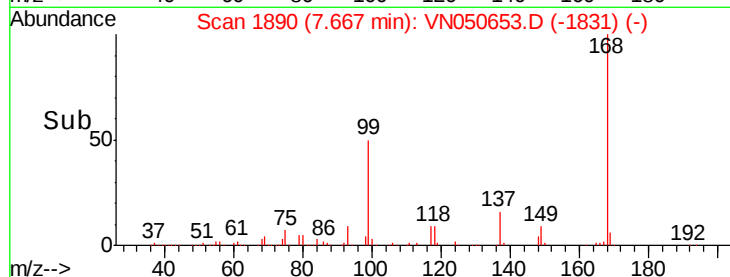
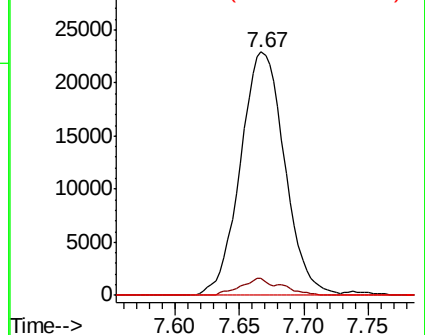
121 0.0 25.0 37.6#



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: 0.77 ug/l

RT: 8.28 min Scan# 2080

Delta R.T. 0.11 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

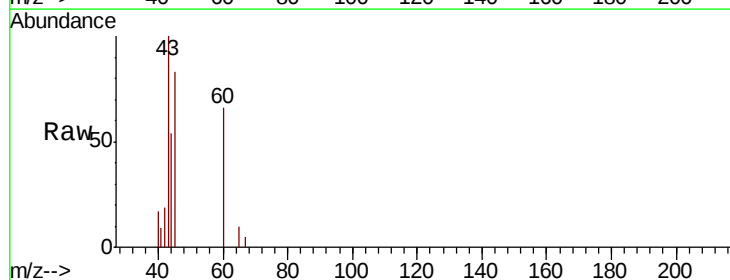
Tgt Ion: 43 Resp: 8390

Ion Ratio Lower Upper

43 100

61 0.0 16.2 24.2#

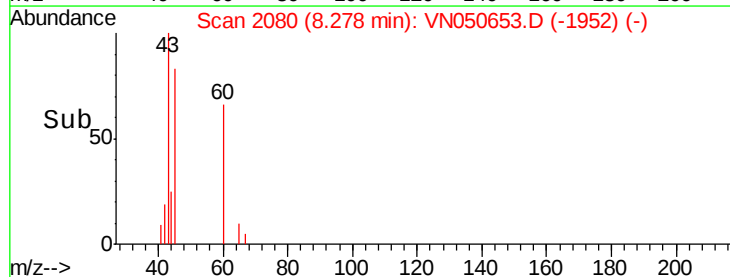
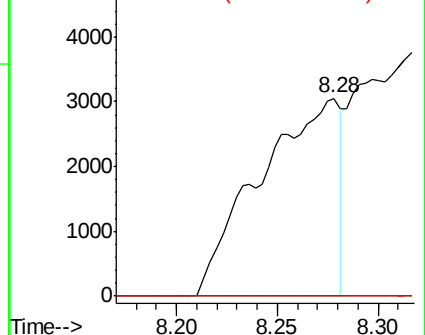
87 0.0 10.9 16.3#

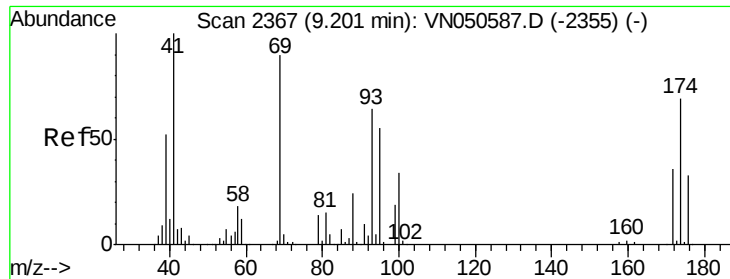


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

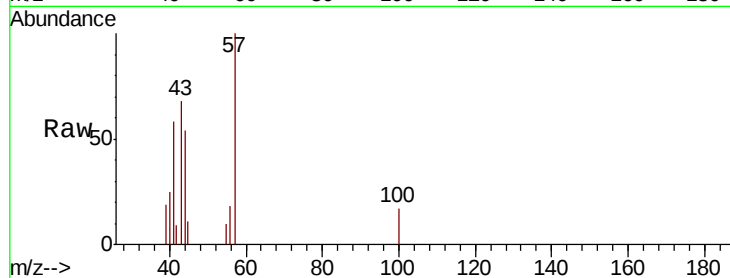




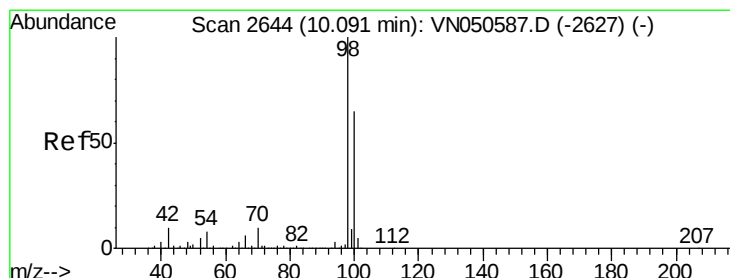
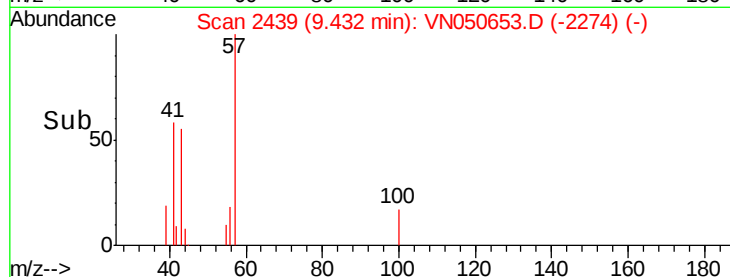
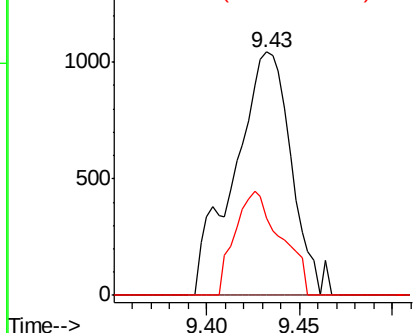
#48
Methvl methacrylate
Concen: 0.41 ug/l
RT: 9.43 min Scan# 2439
Delta R.T. 0.23 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Instrument :
MSVOA_N
ClientSampled :
943-MW-04(23)

Tot Ion: 41 Resp: 2232
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 34.5 43.0 64.6#

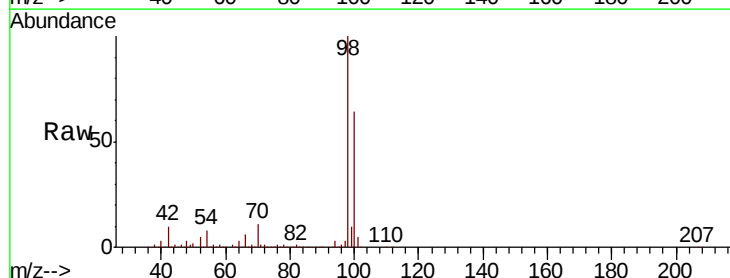


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

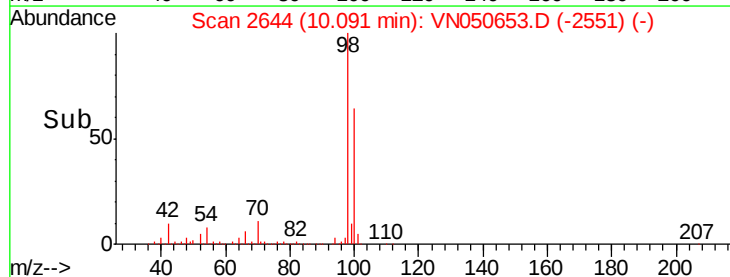
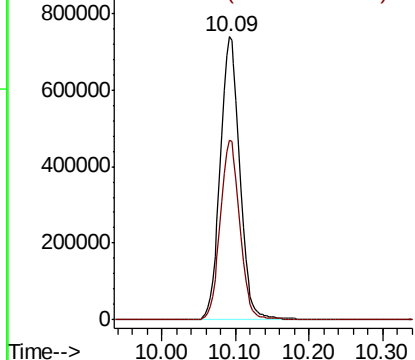


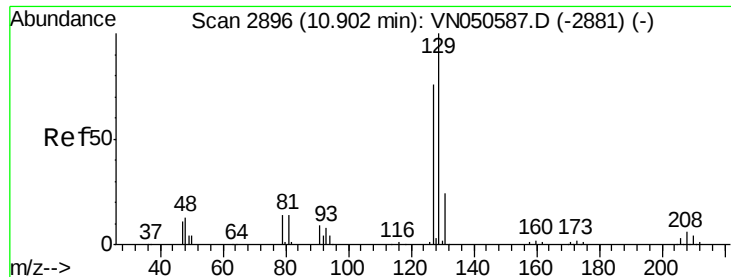
#50
Toluene-d8
Concen: 47.79 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Tgt Ion: 98 Resp: 1362460
Ion Ratio Lower Upper
98 100
100 63.3 51.8 77.8



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

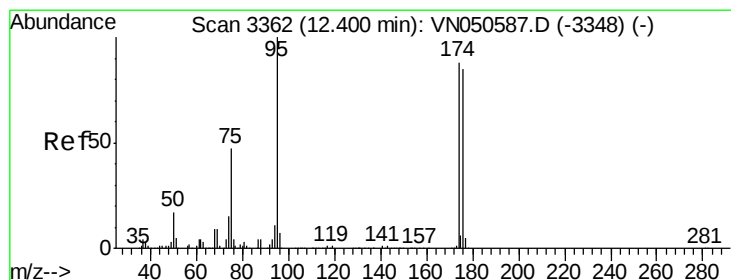
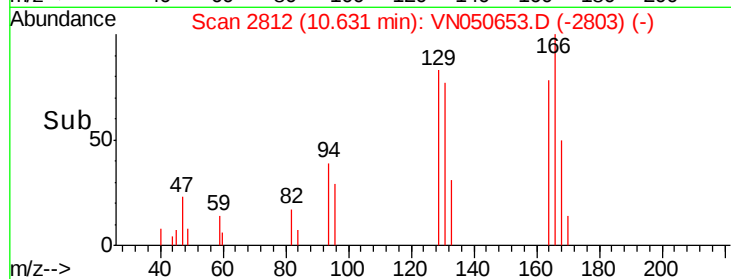
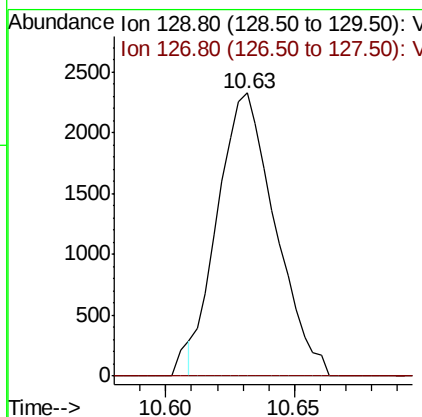
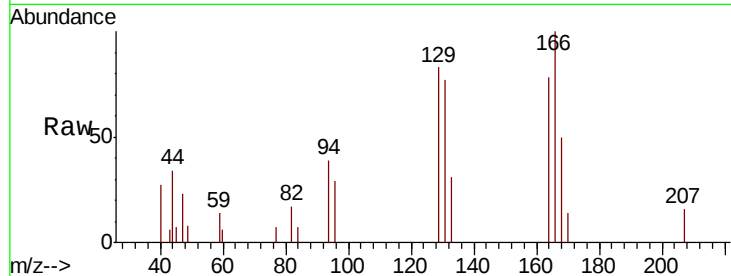




#60
 Dibromochloromethane
 Concen: 0.46 ug/l
 RT: 10.63 min Scan# 2812
 Delta R.T. -0.27 min
 Lab File: VN050653.D
 Acq: 15 Aug 2018 14:24

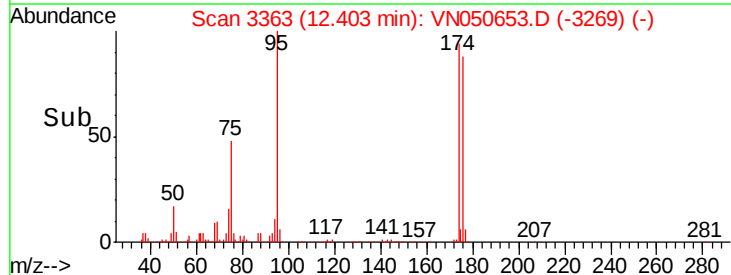
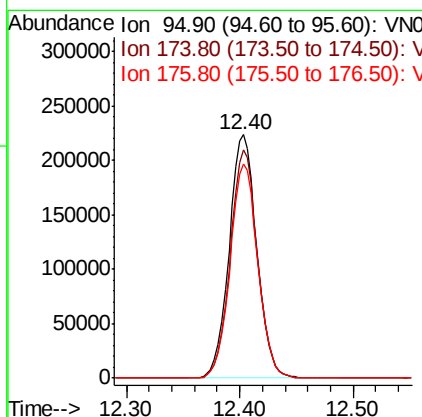
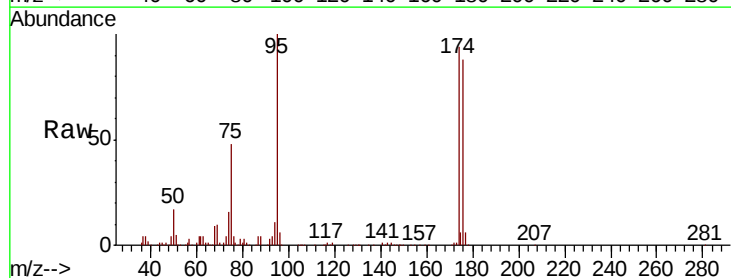
Instrument :
 MSVOA_N
 ClientSampleId :
 943-MW-04(23)

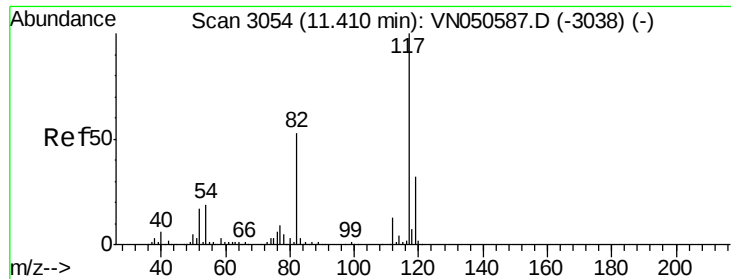
Tot Ion:129 Resp: 3604
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#



#62
 4-Bromofluorobenzene
 Concen: 40.12 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050653.D
 Acq: 15 Aug 2018 14:24

Tgt Ion: 95 Resp: 377861
 Ion Ratio Lower Upper
 95 100
 174 92.6 0.0 177.8
 176 88.3 0.0 175.0

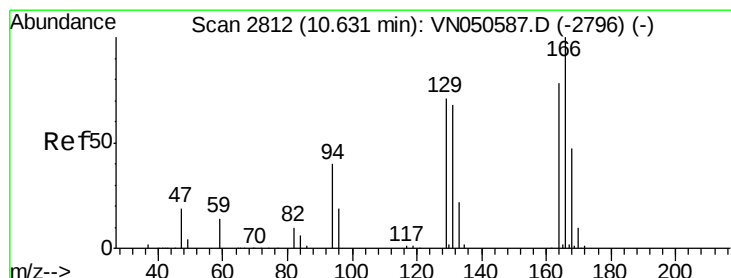
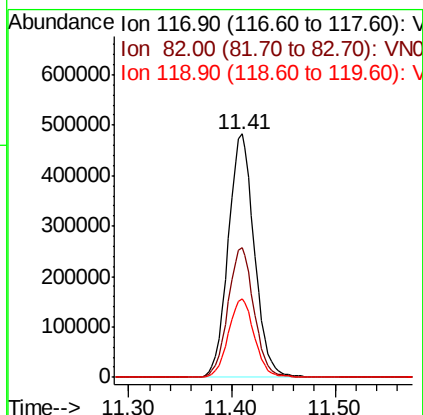
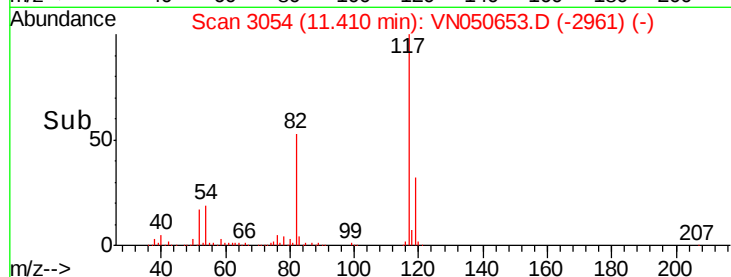
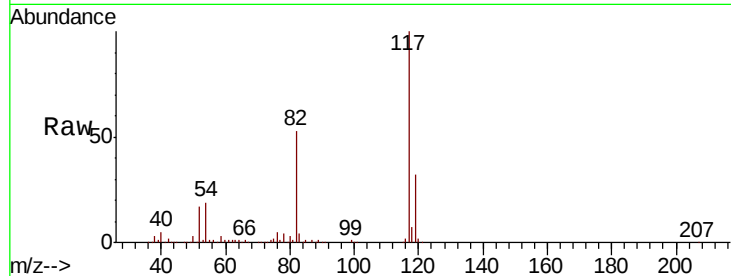




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

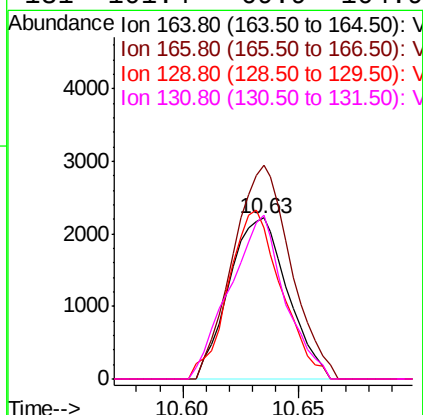
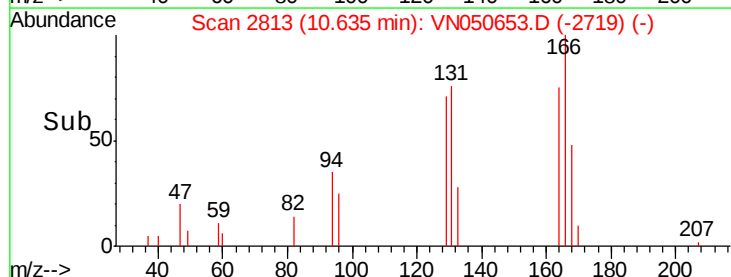
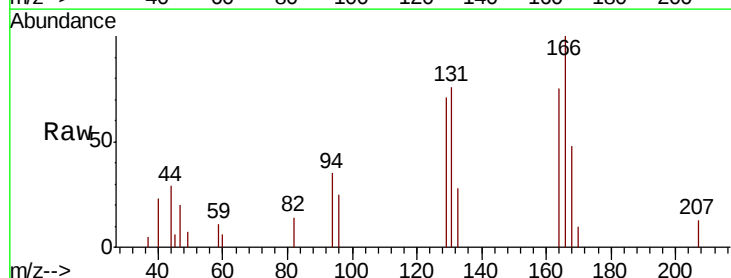
Instrument :
MSVOA_N
ClientSampleId :
943-MW-04(23)

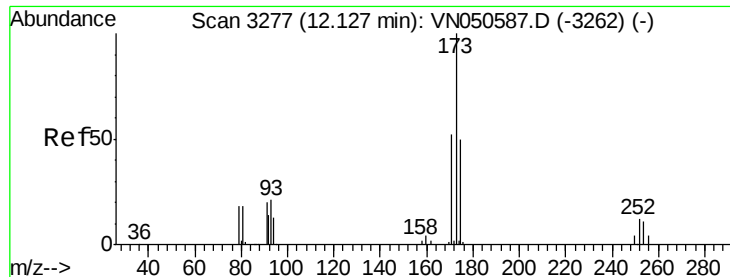
Tot Ion:117 Resp: 851637
Ion Ratio Lower Upper
117 100
82 53.3 42.4 63.6
119 32.2 25.8 38.8



#64
Tetrachloroethene
Concen: 0.49 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Tgt Ion:164 Resp: 3893
Ion Ratio Lower Upper
164 100
166 132.6 102.1 153.1
129 93.7 72.7 109.1
131 101.4 69.9 104.9

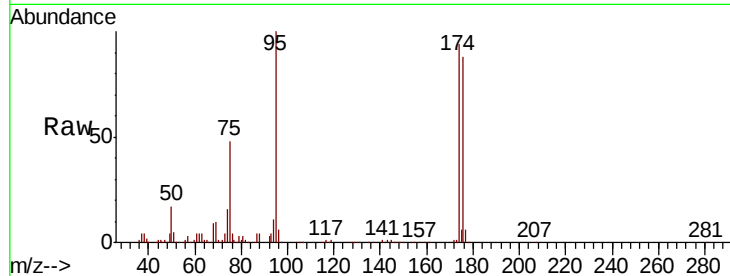




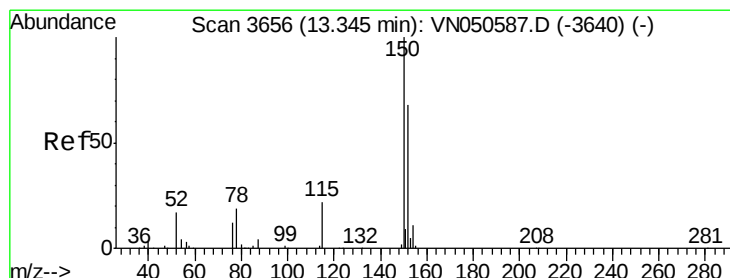
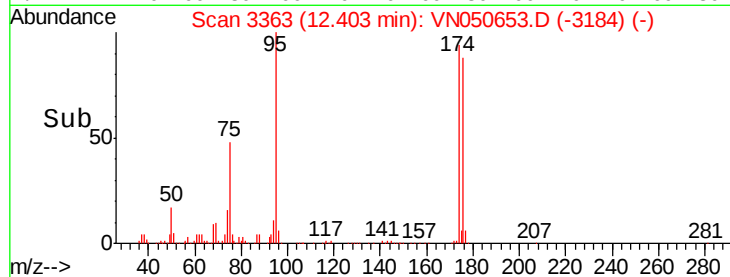
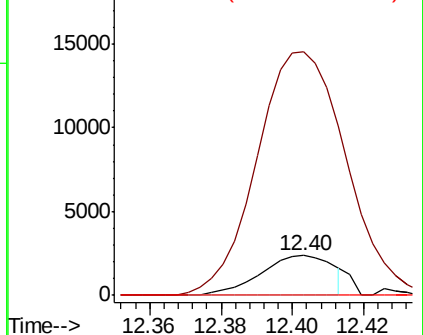
#71
Bromoform
Concen: 0.63 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Instrument :
MSVOA_N
ClientSampleId :
943-MW-04(23)

Tot Ion:173 Resp: 3325
Ion Ratio Lower Upper
173 100
175 641.1 24.4 73.2#
254 0.0 0.0 0.0

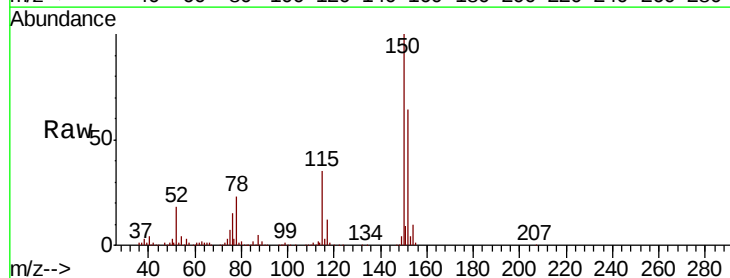


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

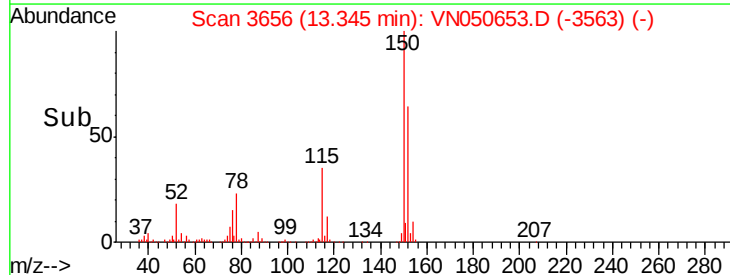
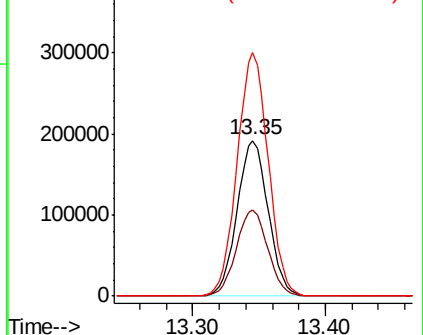


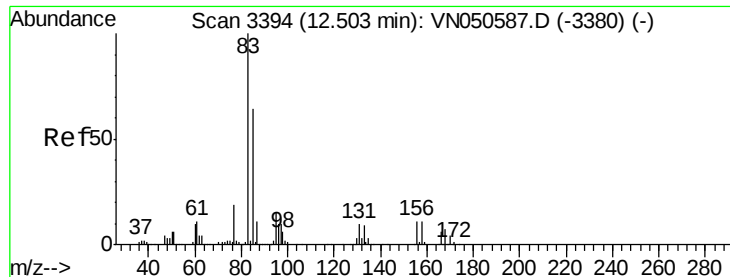
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050653.D
Acq: 15 Aug 2018 14:24

Tgt Ion:152 Resp: 311081
Ion Ratio Lower Upper
152 100
115 56.2 28.1 84.2
150 157.0 0.0 347.8



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: 12.39 min Scan# 3359

Delta R.T. -0.11 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

943-MW-04(23)

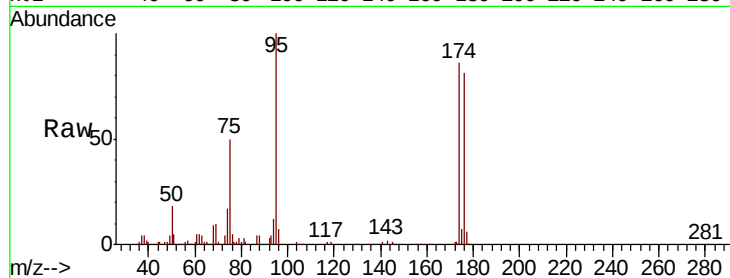
Tot Ion: 83 Resp: 183

Ion Ratio Lower Upper

83 100

131 203.8 5.3 15.9#

85 0.0 32.1 96.5#

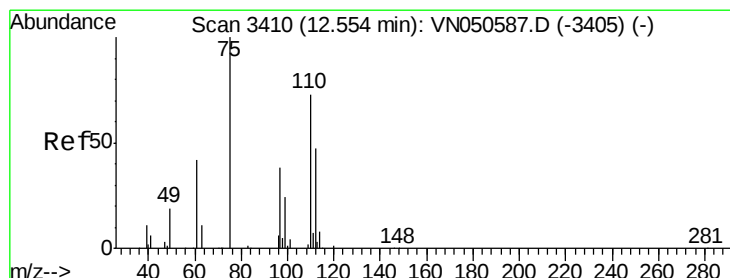
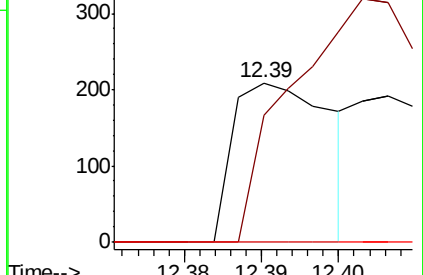
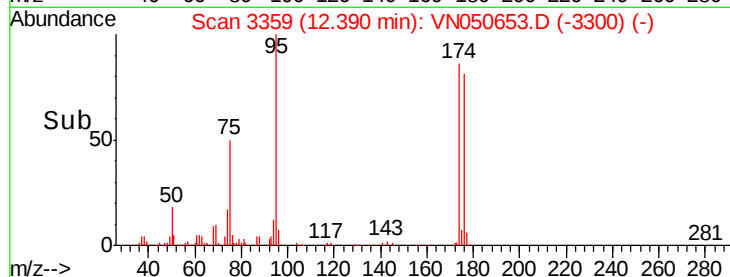


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

Time-->



#76

1,2,3-Trichloropropane

Concen: 35.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050653.D

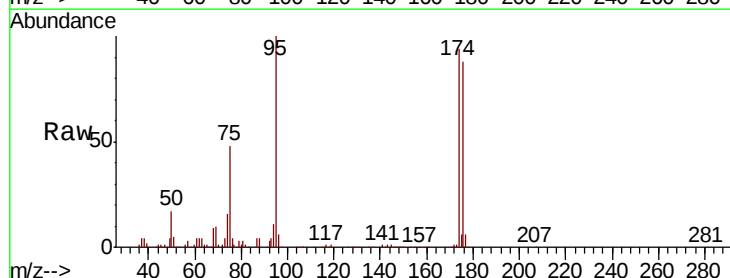
Acq: 15 Aug 2018 14:24

Tgt Ion: 75 Resp: 181091

Ion Ratio Lower Upper

75 100

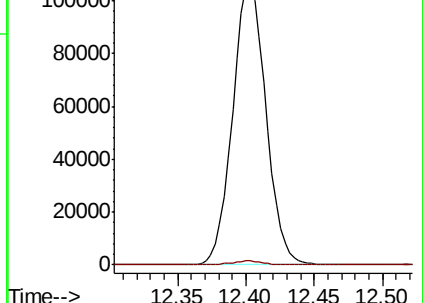
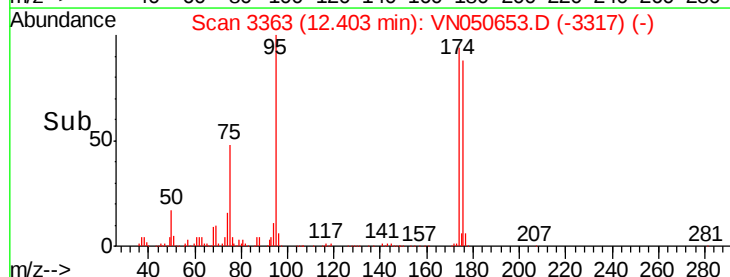
77 1.3 0.0 0.0#

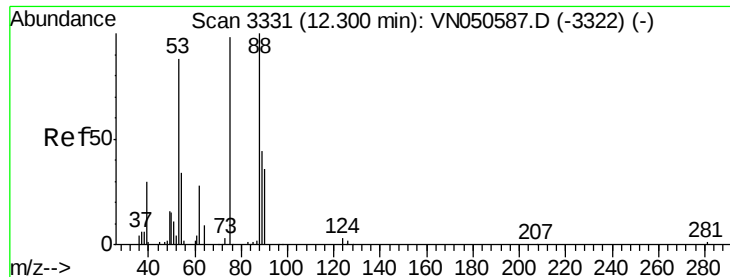


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 129.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

943-MW-04(23)

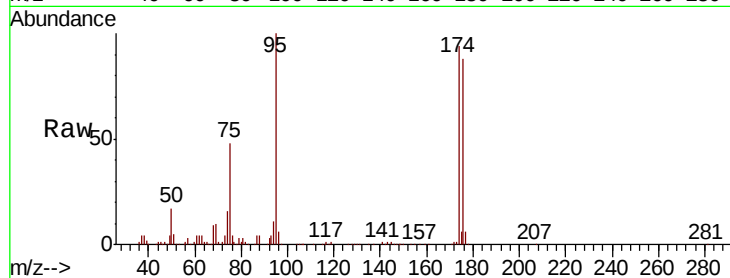
Tot Ion: 75 Resp: 181091

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

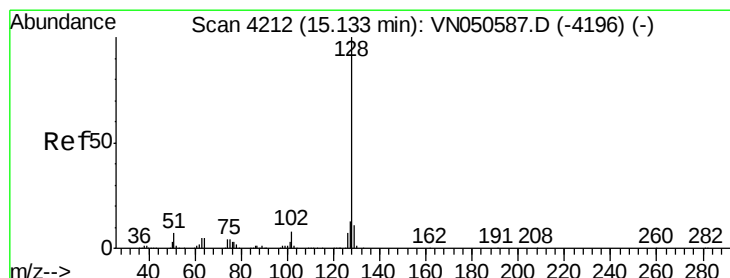
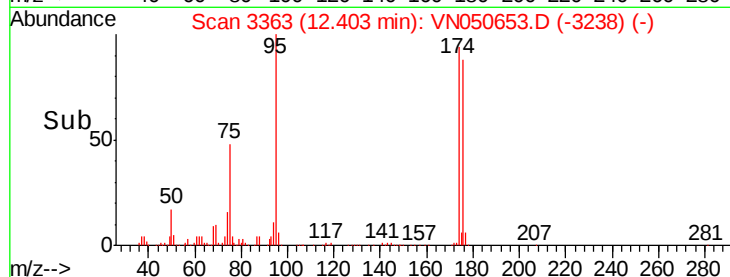
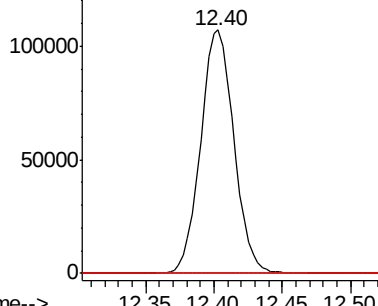
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050587.D (-3322) (-)

Ion 88.90 (88.60 to 89.60): VN050587.D (-3322) (-)



#95

Naphthalene

Concen: 3.94 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050653.D

Acq: 15 Aug 2018 14:24

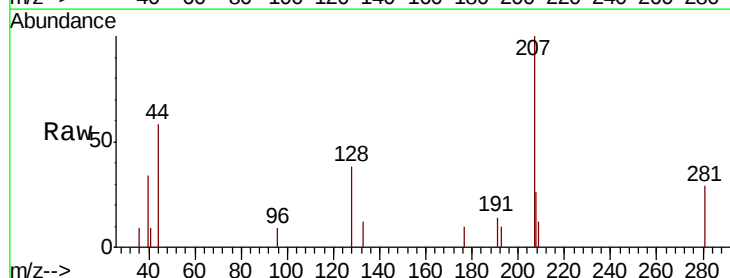
Tgt Ion: 128 Resp: 984

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): VN050587.D (-4196) (-)

Ion 127.00 (126.70 to 127.70): VN050587.D (-4196) (-)

Ion 129.00 (128.70 to 129.70): VN050587.D (-4196) (-)

