

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055432.D
 Acq On : 7 May 2019 12:58
 Operator : JC/SP
 Sample : K2658-25
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Quant Time: May 08 05:47:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	463219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	725993	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	585611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158327	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	293943	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
35) Dibromofluoromethane	7.59	113	228452	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
50) Toluene-d8	10.09	98	851491	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
62) 4-Bromofluorobenzene	12.40	95	240454	44.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.42%	

Target Compounds

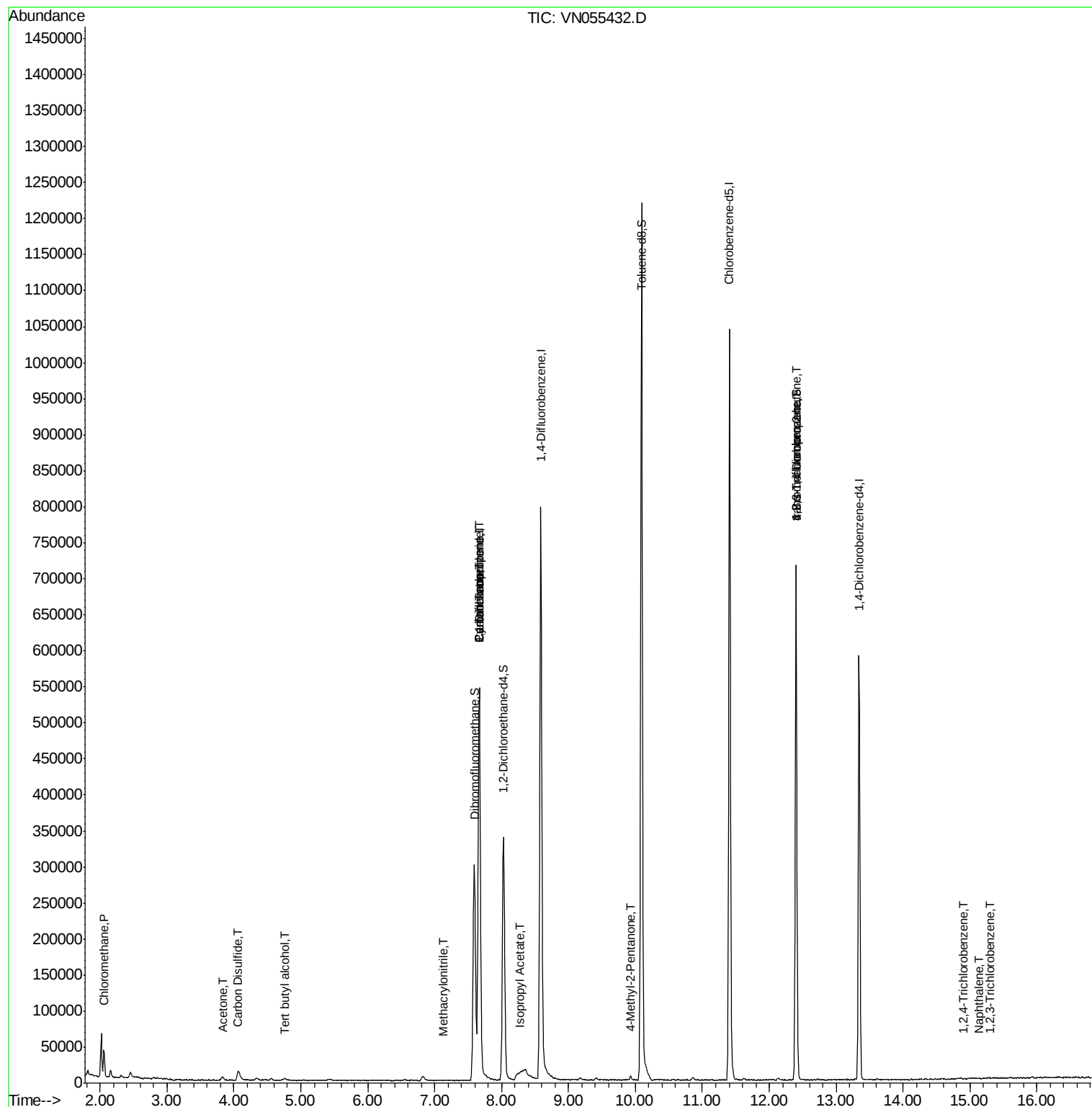
						Qvalue
3) Chloromethane	2.06	50	32483	4.622	ug/l	99
11) Tert butyl alcohol	4.76	59	2786	8.030	ug/l #	73
16) Acetone	3.83	43	7403	3.921	ug/l	99
17) Carbon Disulfide	4.06	76	3237	0.271	ug/l #	87
31) Cyclohexane	7.66	56	9618	1.009	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	37141	5.341	ug/l #	50
38) Carbon Tetrachloride	7.67	117	43493	6.484	ug/l #	16
41) Methacrylonitrile	7.14	41	31	0.750	ug/l #	1
43) Isopropyl Acetate	8.27	43	13546	1.582	ug/l #	56
51) 4-Methyl-2-Pentanone	9.93	43	2932	0.608	ug/l #	39
73) Isopropylbenzene	12.25	105	292	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	67	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	126384	42.571	ug/l #	100
77) Bromobenzene	12.52	156	157	Below Cal	#	34
79) 2-Chlorotoluene	12.67	91	277	Below Cal	#	42
81) trans-1,4-Dichloro-2-buten	12.40	75	126384	151.273	ug/l #	7
83) tert-Butylbenzene	12.99	119	61	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.90	180	246	3.422	ug/l #	69
94) Hexachlorobutadiene	15.01	225	102	Below Cal	#	20
95) Naphthalene	15.14	128	653	3.467	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	337	2.769	ug/l #	46

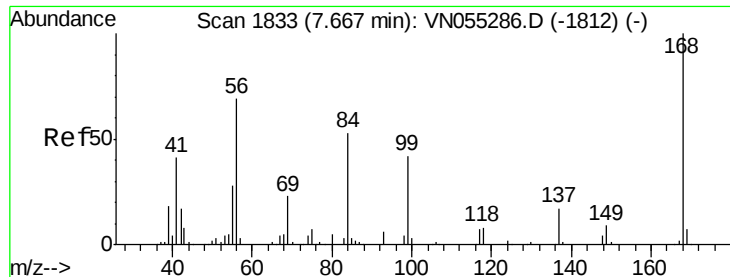
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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TRIP-BLANK

Quant Time: May 08 05:47:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampleId :

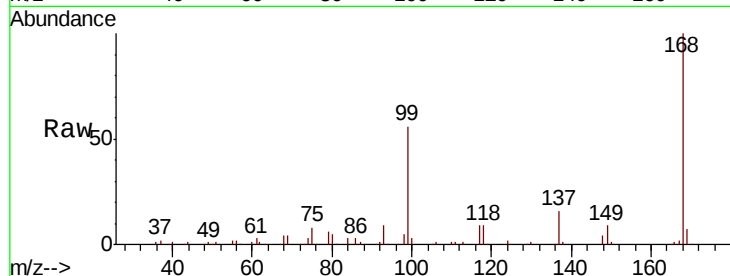
TRIP-BLANK

Tot Ion:168 Resp: 463219

Ion Ratio Lower Upper

168 100

99 56.3 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

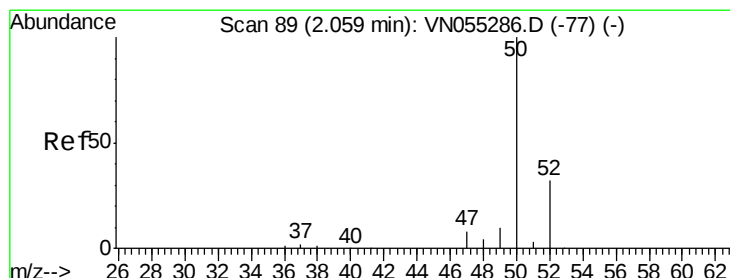
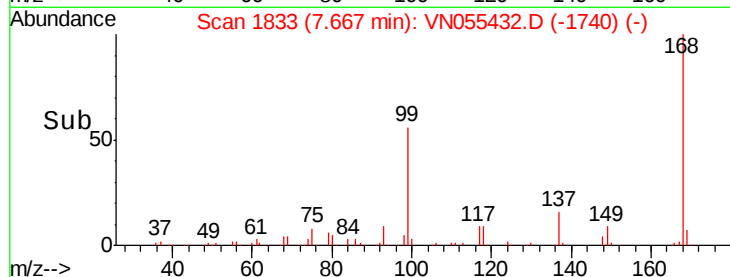
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 4.622 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055432.D

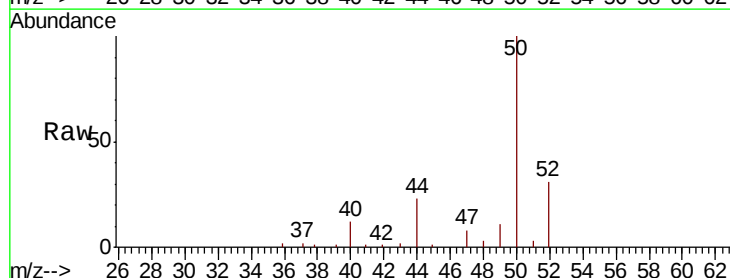
Acq: 7 May 2019 12:58

Tgt Ion: 50 Resp: 32483

Ion Ratio Lower Upper

50 100

52 31.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

25000

20000

15000

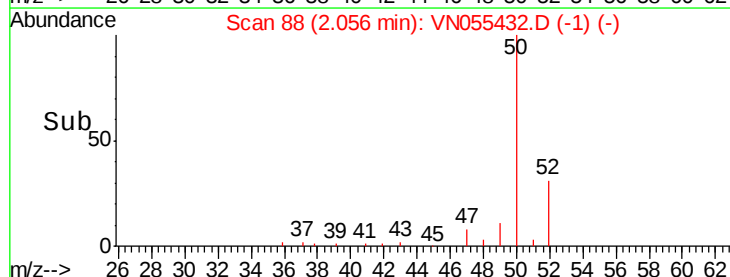
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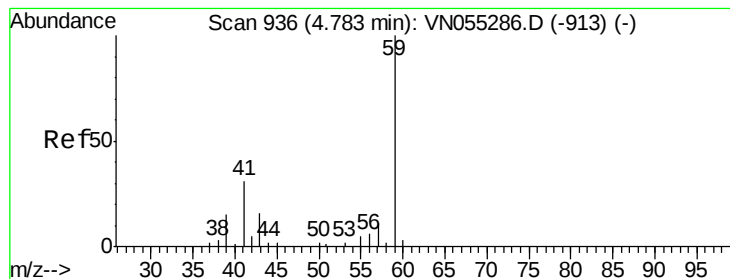
5000

0

2.00 2.05 2.10

Time-->



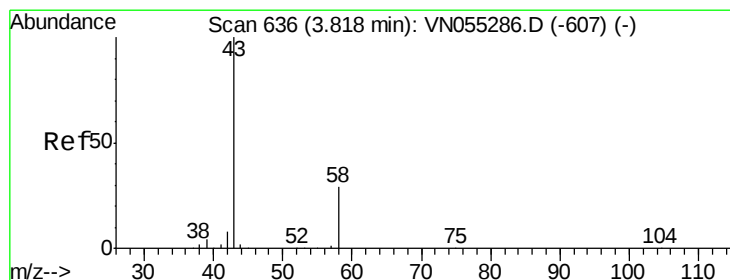
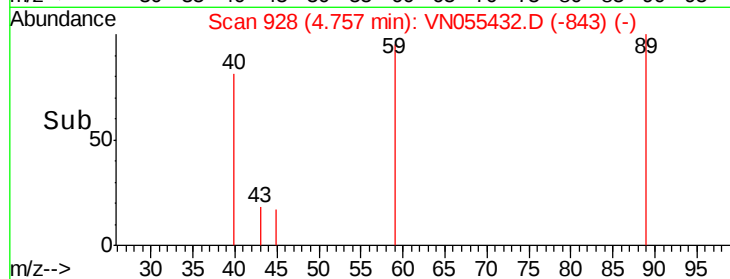
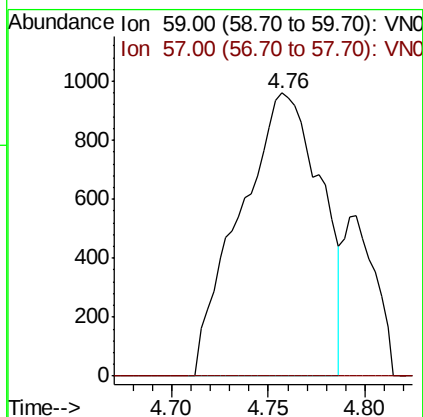
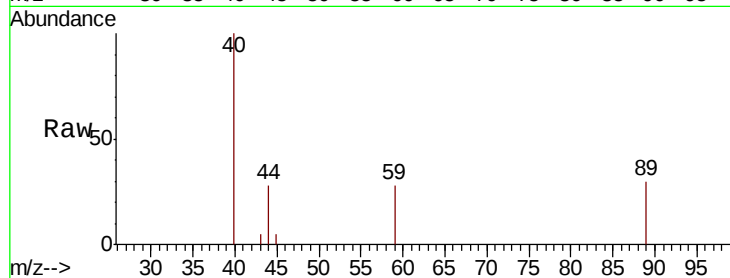


#11

Tert butyl alcohol
 Concen: 8.030 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.03 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Instrument :
 MSVOA_N
 ClientSampled :
 TRIP-BLANK

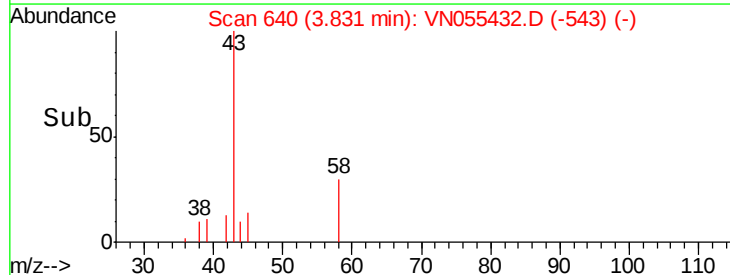
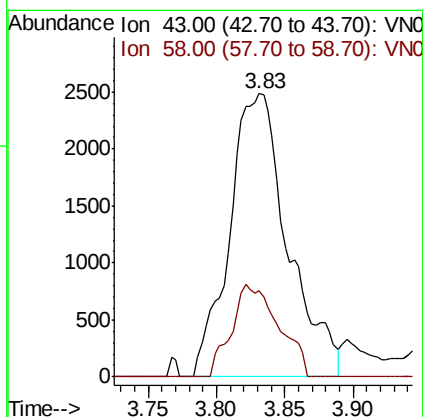
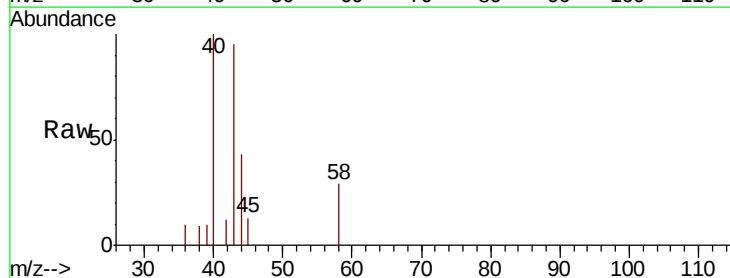
Tot Ion: 59 Resp: 2786
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

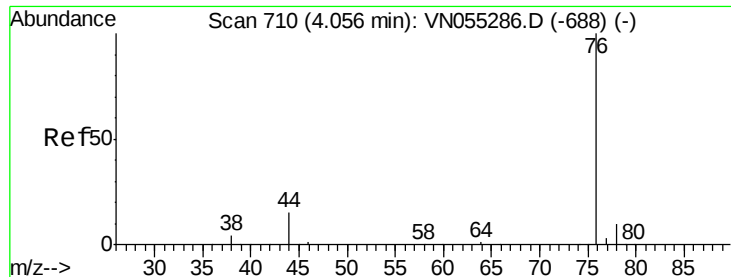


#16

Acetone
 Concen: 3.921 ug/l
 RT: 3.83 min Scan# 640
 Delta R.T. 0.01 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Tgt Ion: 43 Resp: 7403
 Ion Ratio Lower Upper
 43 100
 58 30.3 23.6 35.4





#17

Carbon Disulfide

Concen: 0.271 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampleId :

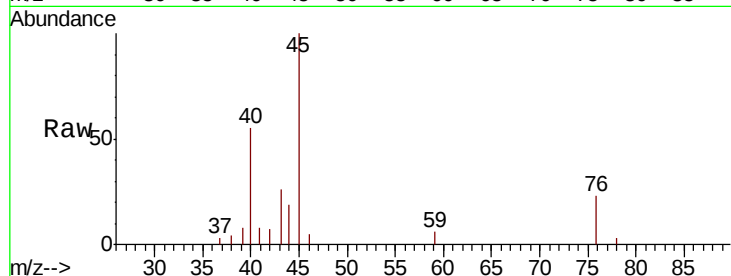
TRIP-BLANK

Tot Ion: 76 Resp: 3237

Ion Ratio Lower Upper

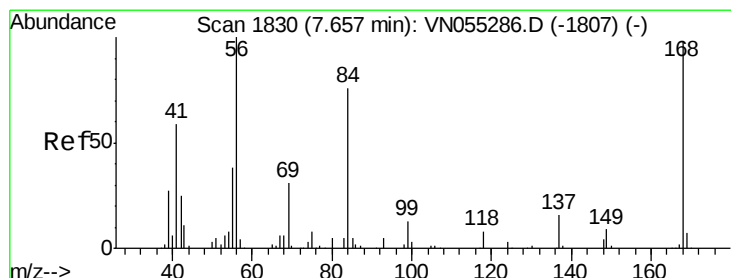
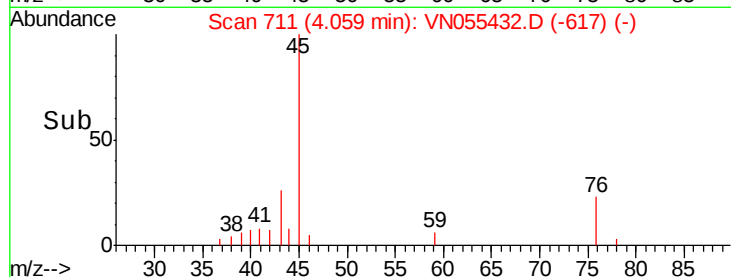
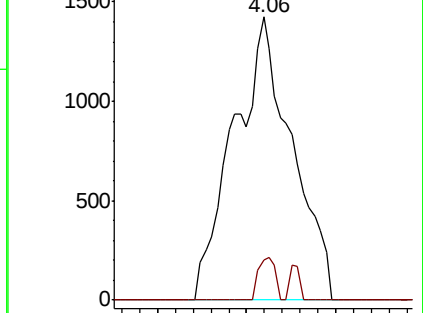
76 100

78 14.1 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#31

Cyclohexane

Concen: 1.009 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

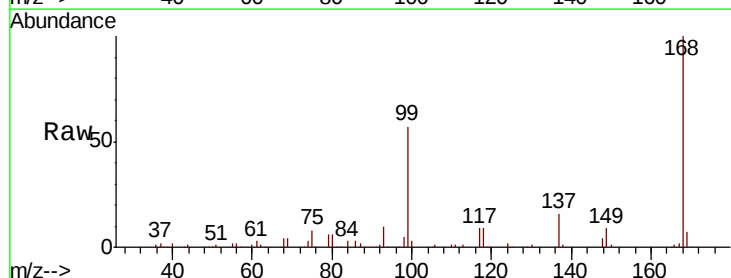
Tgt Ion: 56 Resp: 9618

Ion Ratio Lower Upper

56 100

69 174.2 25.2 37.8#

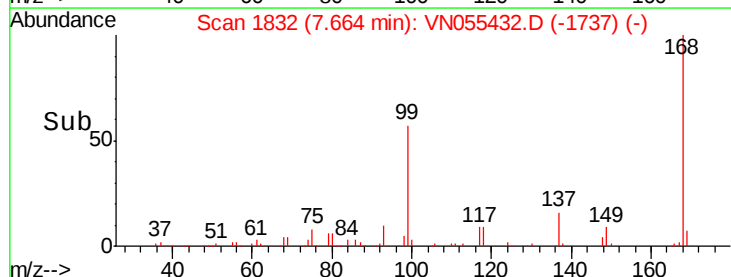
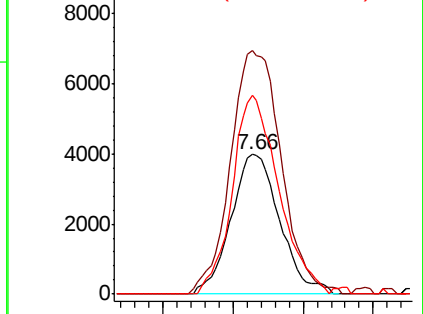
84 142.7 61.1 91.7#

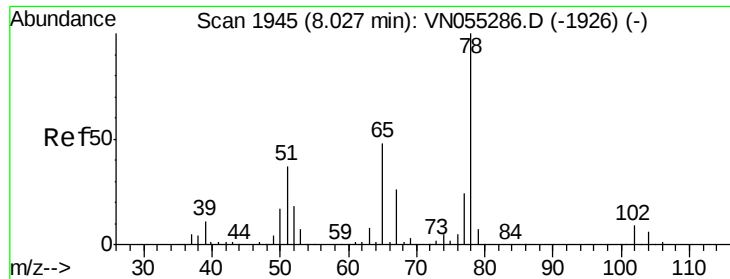


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

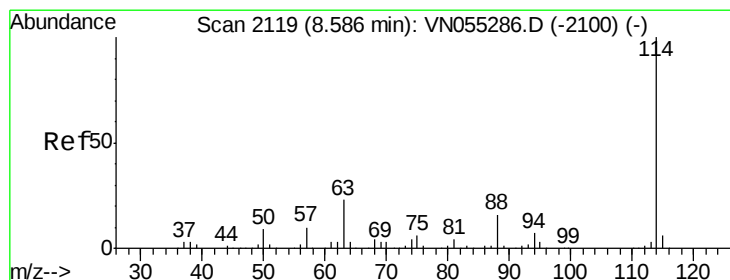
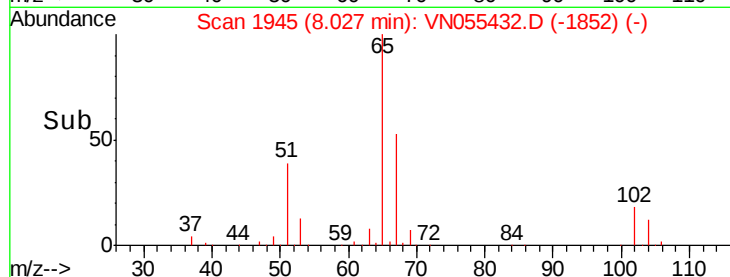
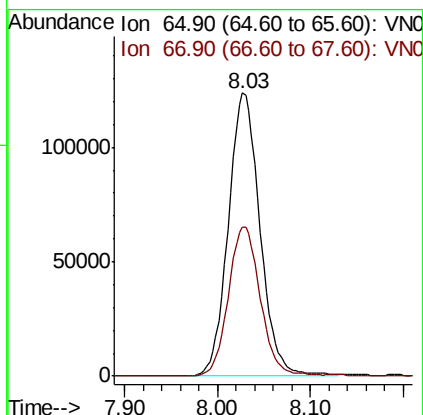
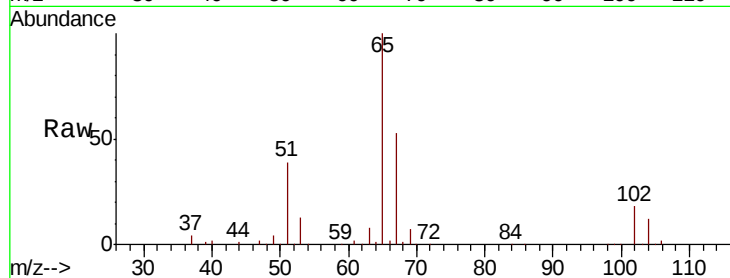




#33
 1,2-Dichloroethane-d4
 Concen: 48.506 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

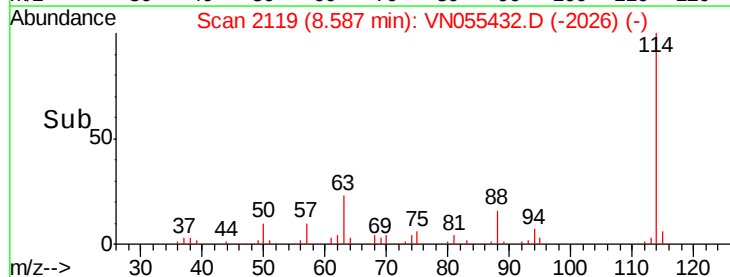
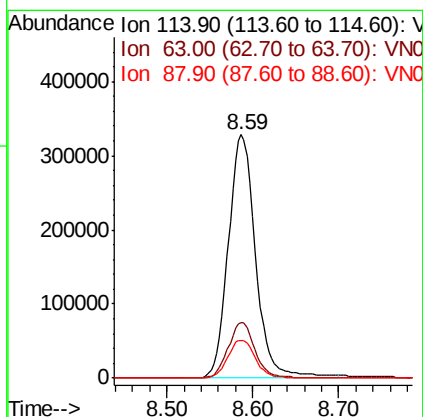
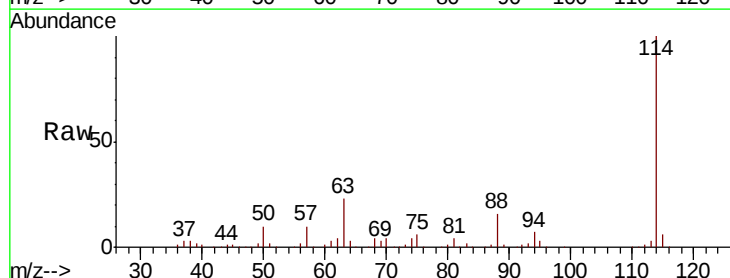
Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

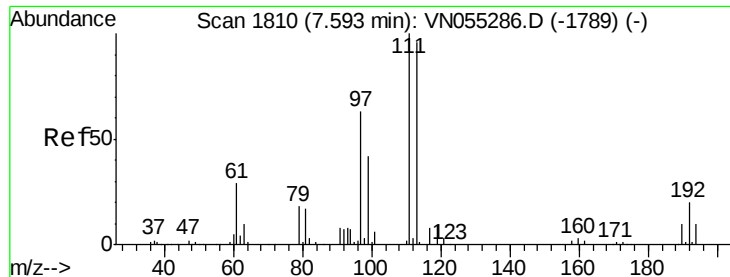
Tot Ion: 65 Resp: 293943
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Tgt Ion: 114 Resp: 725993
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.2
 88 15.6 0.0 31.6

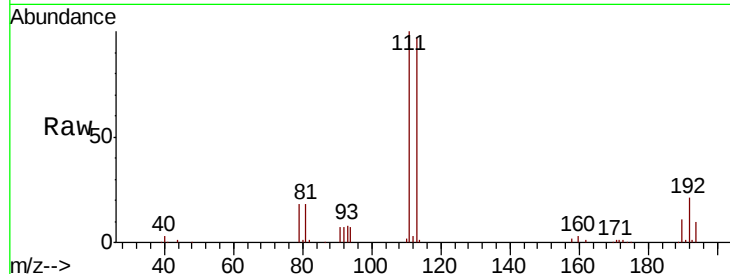




#35
 Dibromofluoromethane
 Concen: 47.942 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.3	123.5
192	20.8	17.0	25.6

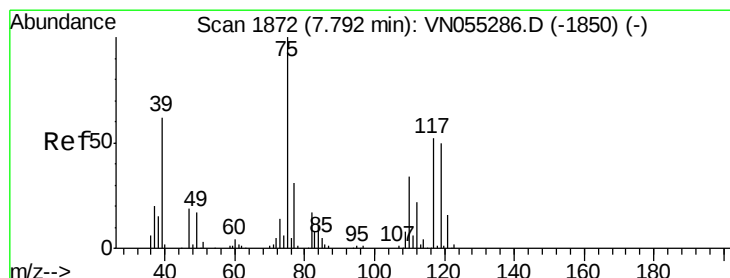
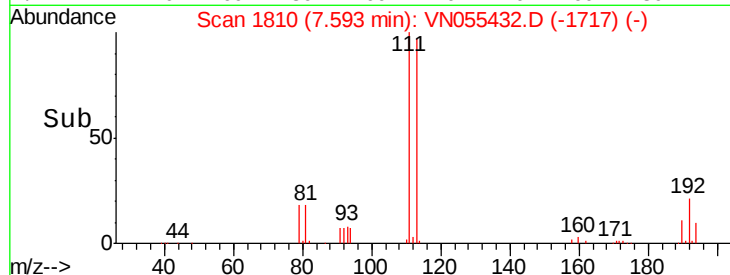
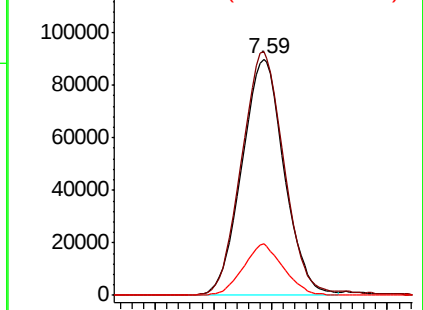


Abundance

Ion 112.80 (112.50 to 113.50): V

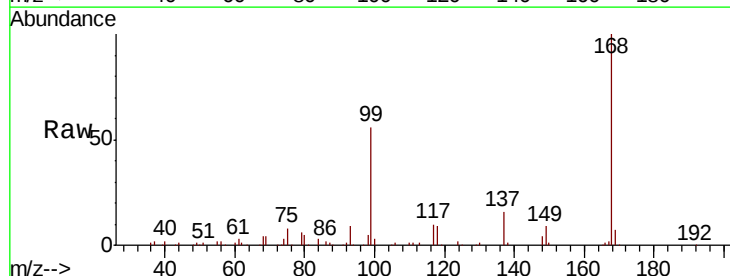
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.341 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.8	50.4#
77	0.0	25.0	37.6#

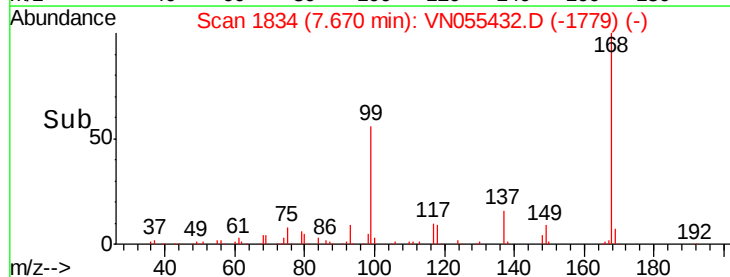
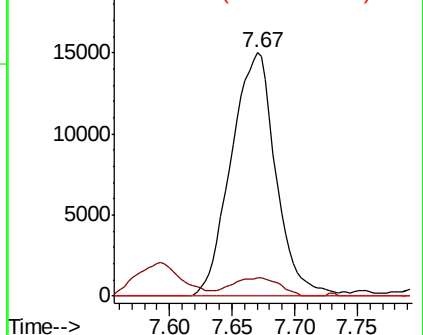


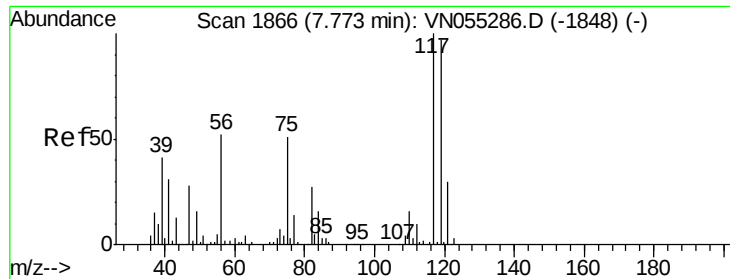
Abundance

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: 6.484 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

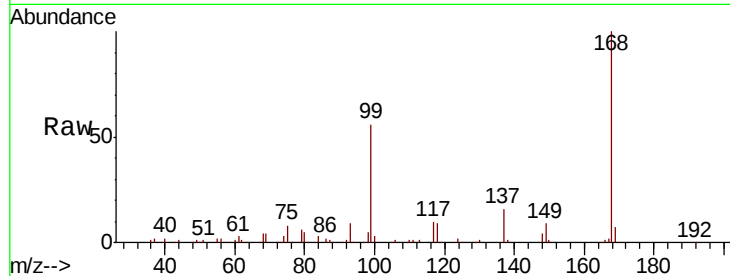
Tot Ion:117 Resp: 43493

Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.6#

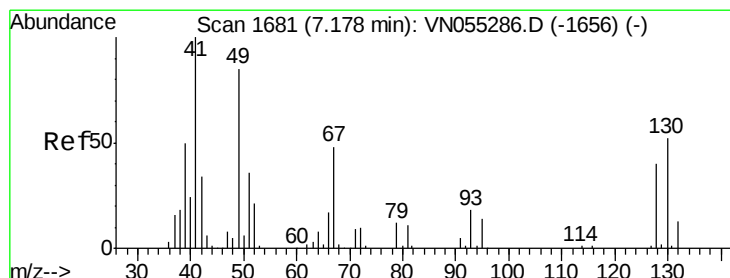
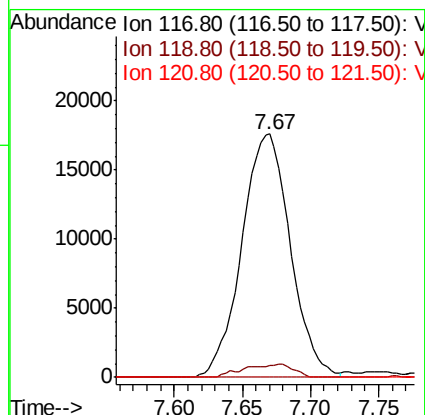
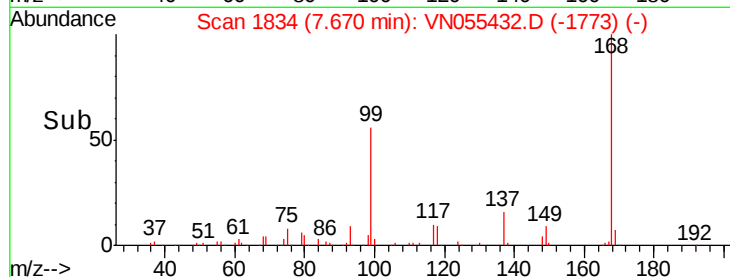
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 0.750 ug/l

RT: 7.14 min Scan# 1668

Delta R.T. -0.04 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Tgt Ion: 41 Resp: 31

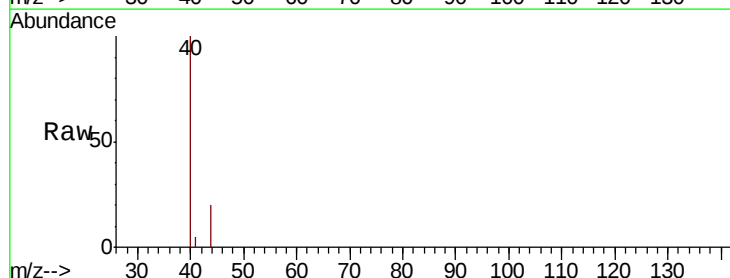
Ion Ratio Lower Upper

41 100

39 209.7 48.5 72.7#

67 0.0 54.9 82.3#

52 0.0 24.9 37.3#

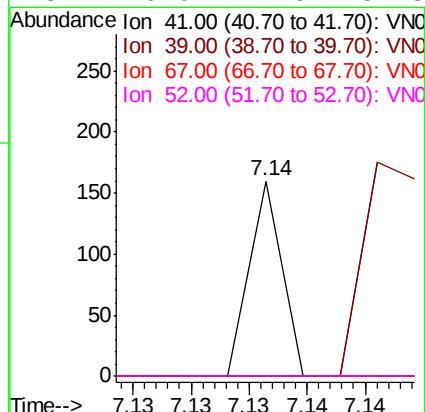
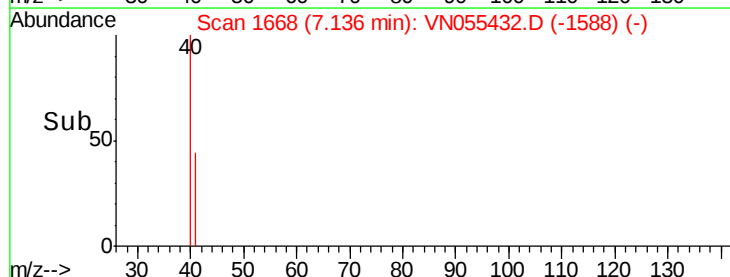


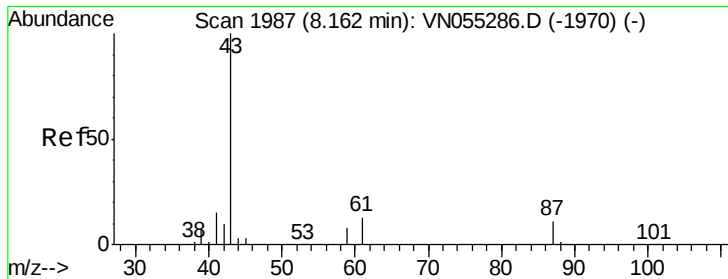
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 1.582 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.11 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

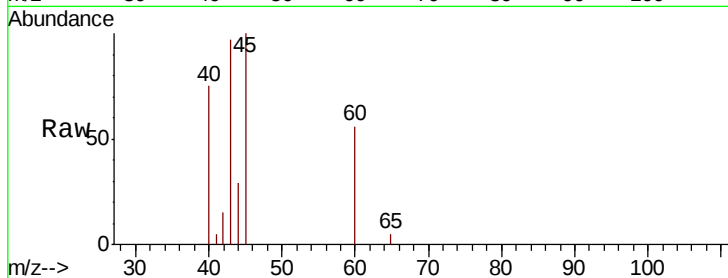
Tot Ion: 43 Resp: 13546

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

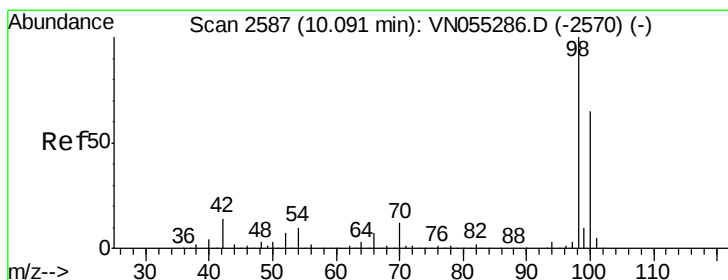
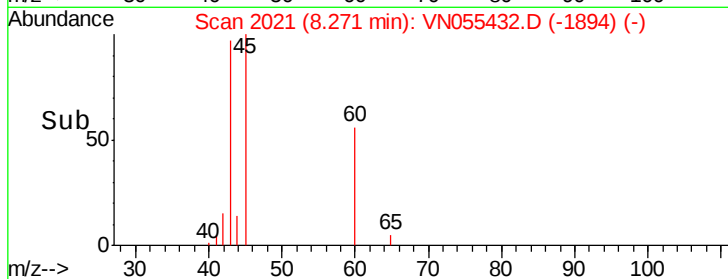
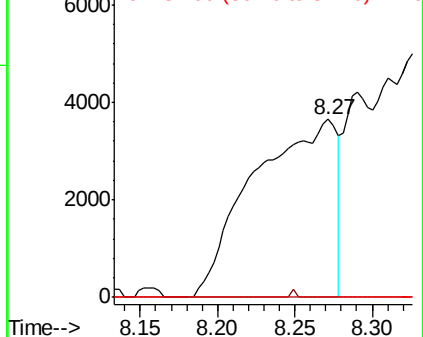
87 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 49.487 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055432.D

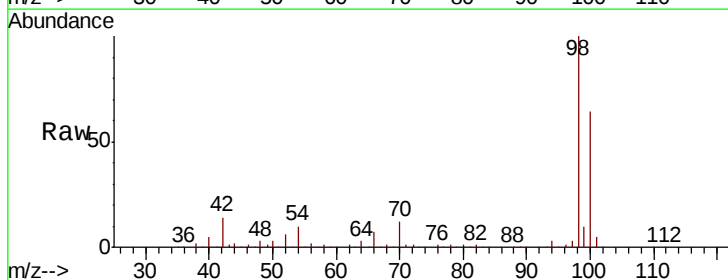
Acq: 7 May 2019 12:58

Tgt Ion: 98 Resp: 851491

Ion Ratio Lower Upper

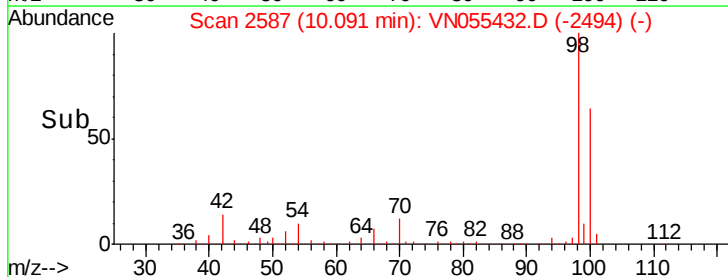
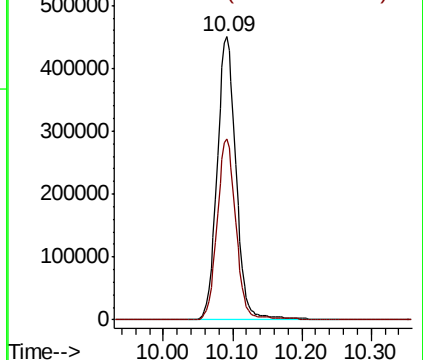
98 100

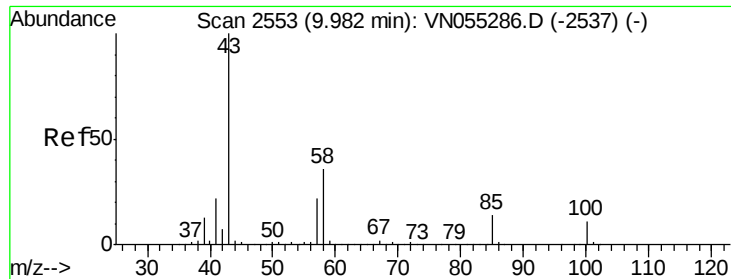
100 63.3 51.7 77.5



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: 0.608 ug/l

RT: 9.93 min Scan# 2538

Delta R.T. -0.05 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampleID :

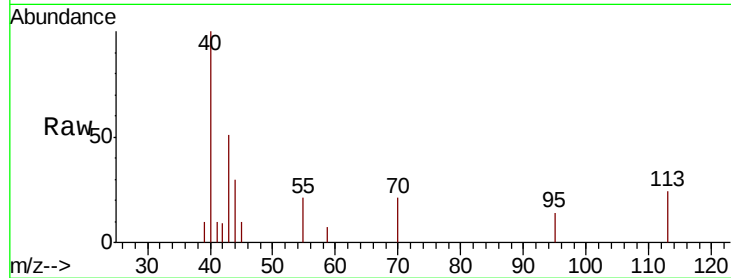
TRIP-BLANK

Tot Ion: 43 Resp: 2932

Ion Ratio Lower Upper

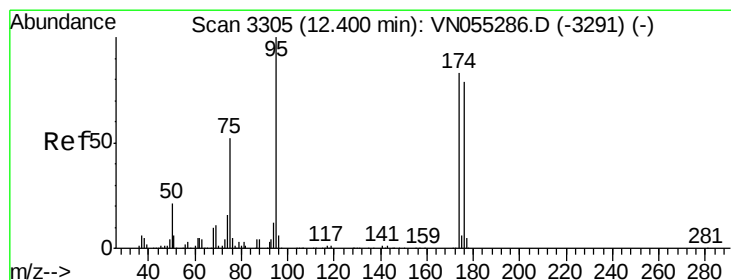
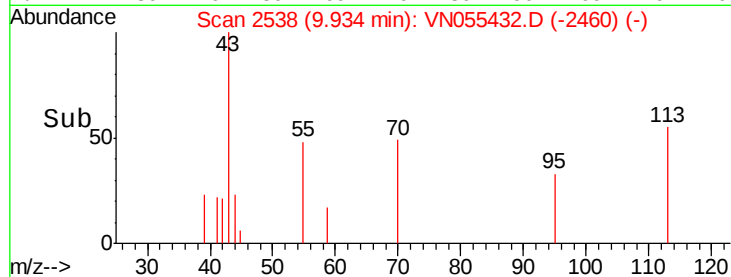
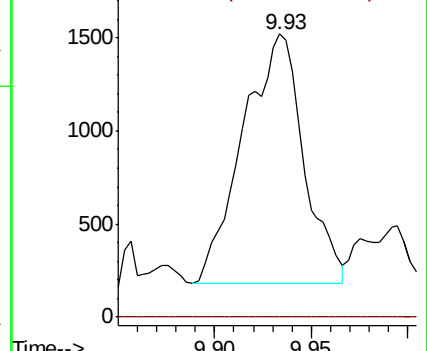
43 100

58 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.714 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

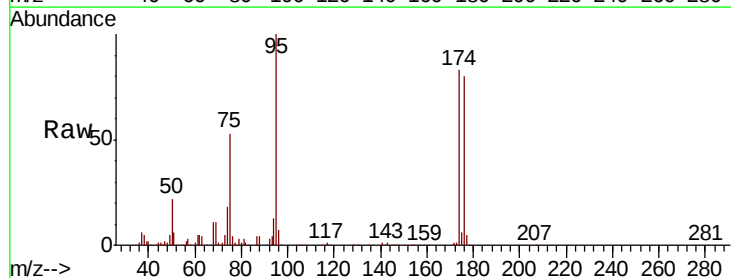
Tgt Ion: 95 Resp: 240454

Ion Ratio Lower Upper

95 100

174 82.6 0.0 166.6

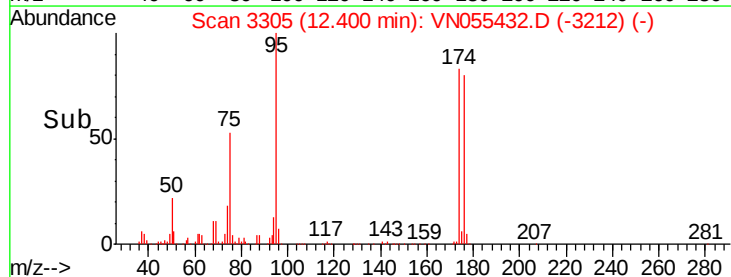
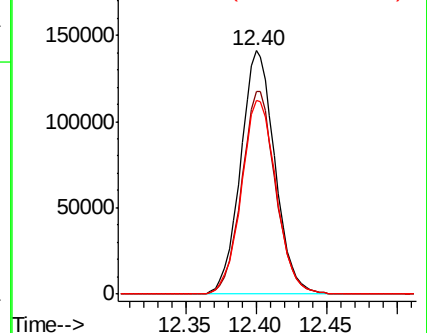
176 81.0 0.0 157.8

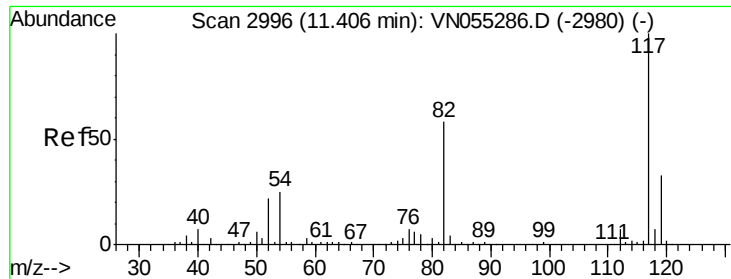


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

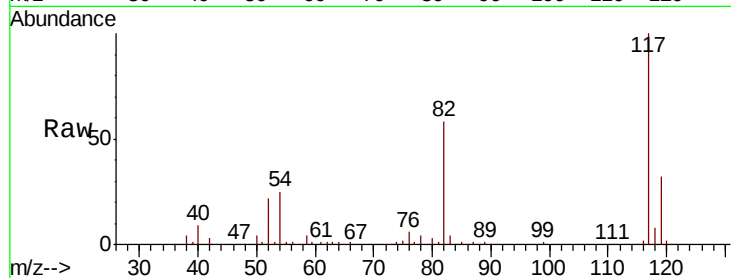




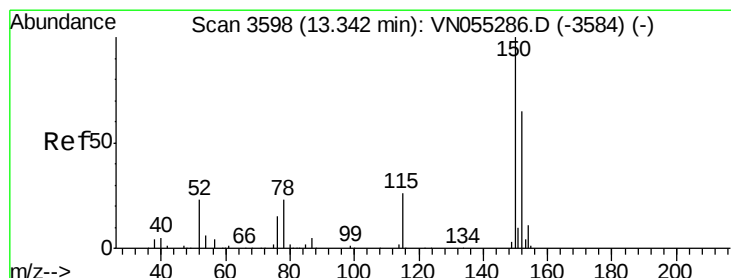
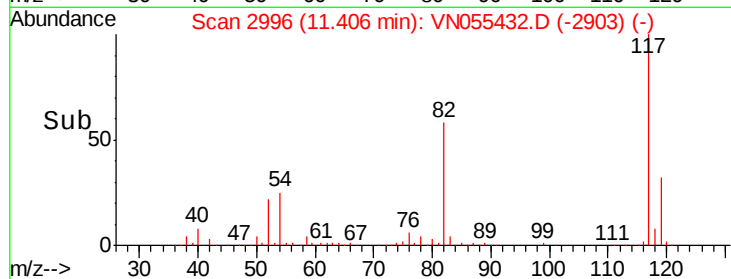
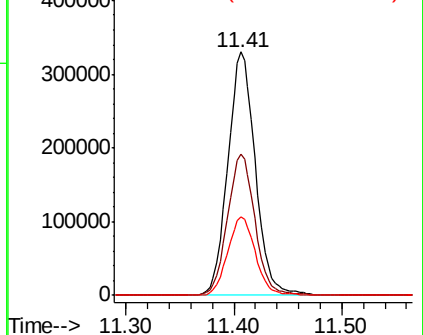
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055432.D
Acq: 7 May 2019 12:58

Instrument :
MSVOA_N
ClientSampled :
TRIP-BLANK

Tot Ion:117 Resp: 585611
Ion Ratio Lower Upper
117 100
82 58.0 46.2 69.4
119 32.5 26.6 40.0

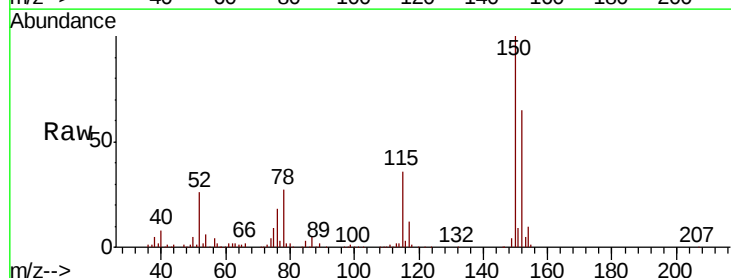


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

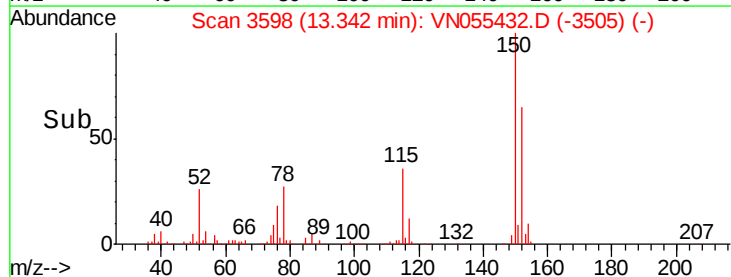
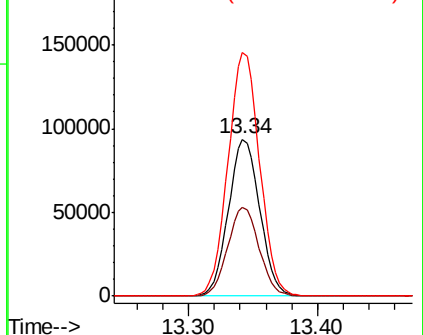


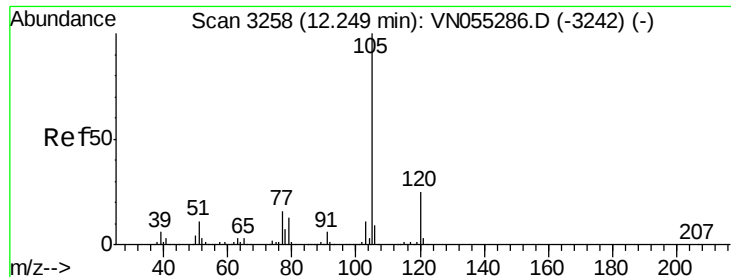
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055432.D
Acq: 7 May 2019 12:58

Tgt Ion:152 Resp: 158327
Ion Ratio Lower Upper
152 100
115 56.8 29.0 87.0
150 156.0 0.0 345.6



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampleId :

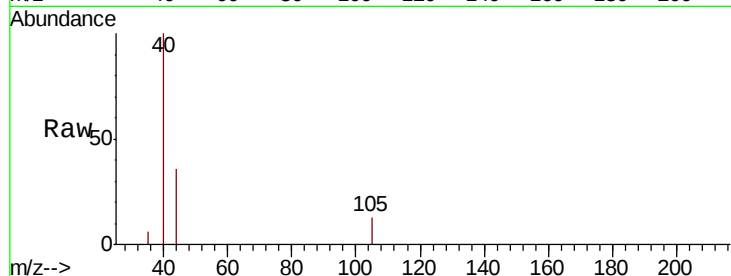
TRIP-BLANK

Tot Ion: 105 Resp: 292

Ion Ratio Lower Upper

105 100

120 0.0 12.9 38.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400

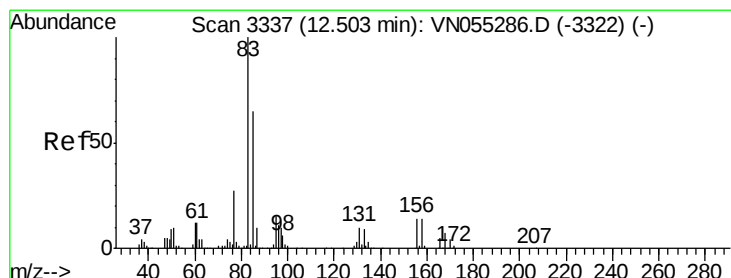
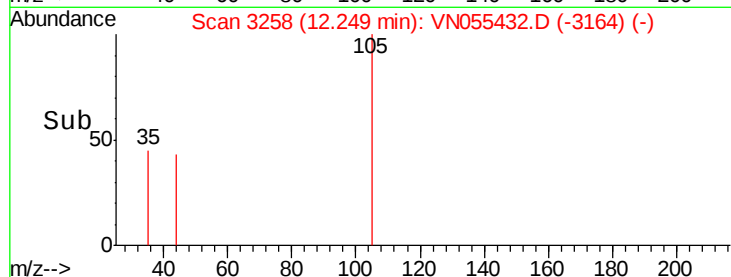
300

200

100

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

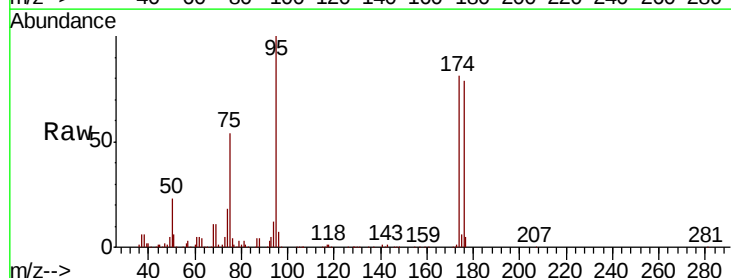
Tgt Ion: 83 Resp: 67

Ion Ratio Lower Upper

83 100

131 353.7 5.1 15.2#

85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

300

250

200

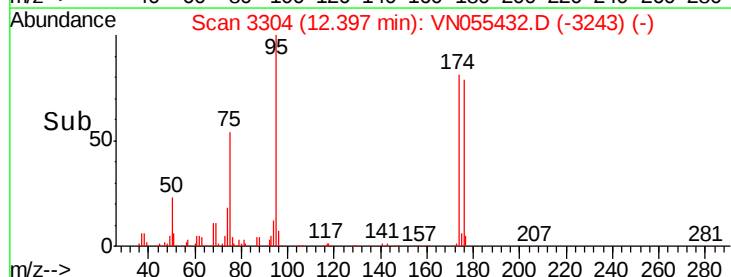
150

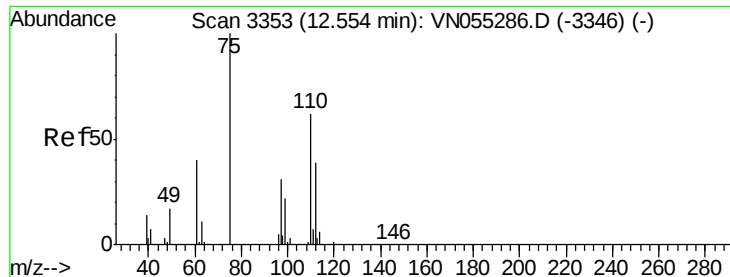
100

50

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 42.571 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampled :

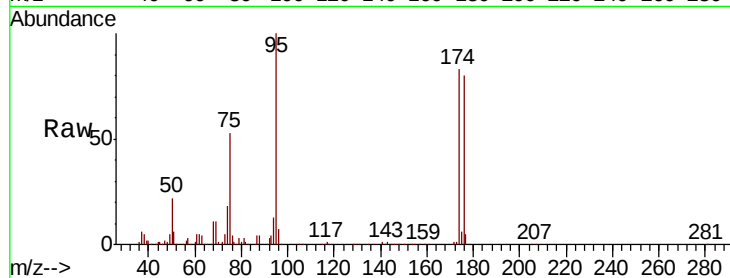
TRIP-BLANK

Tot Ion: 75 Resp: 126384

Ion Ratio Lower Upper

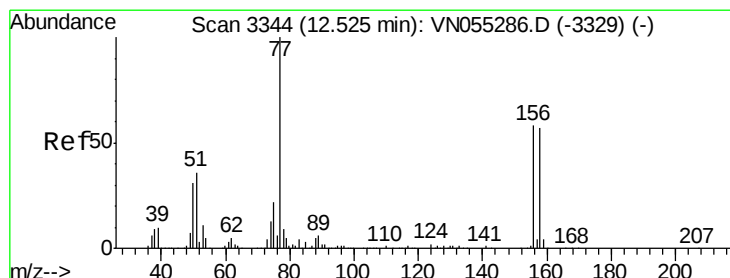
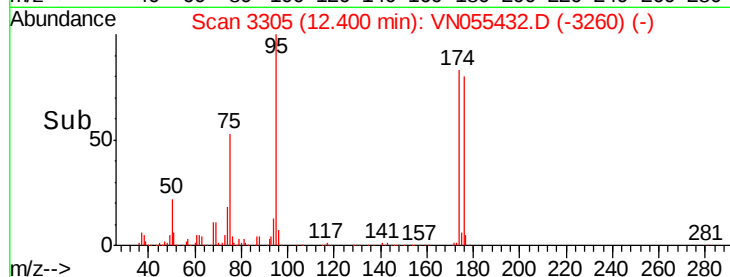
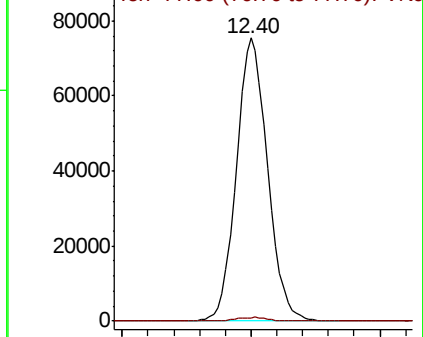
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

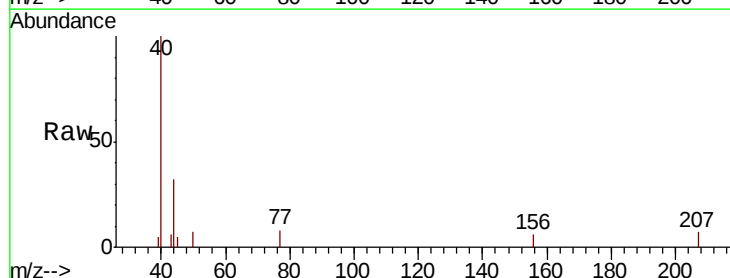
Tgt Ion: 156 Resp: 157

Ion Ratio Lower Upper

156 100

77 125.5 99.6 298.8

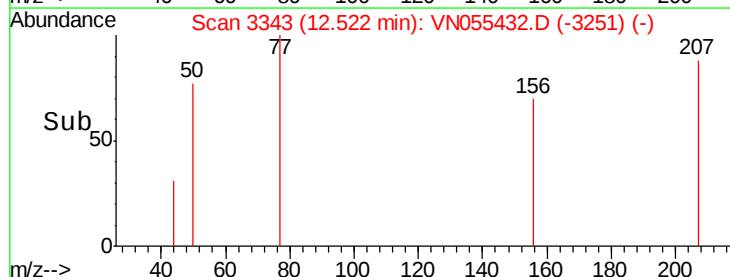
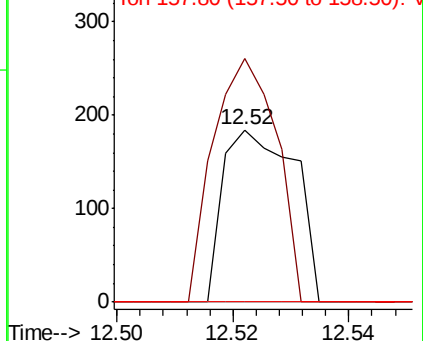
158 0.0 49.3 147.8#

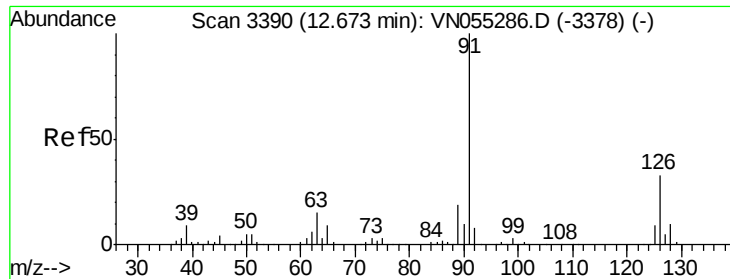


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampled :

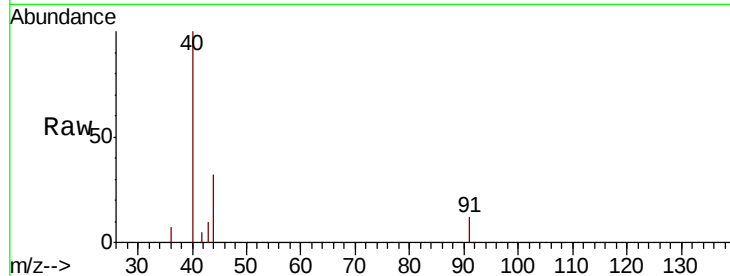
TRIP-BLANK

Tot Ion: 91 Resp: 277

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.67

400

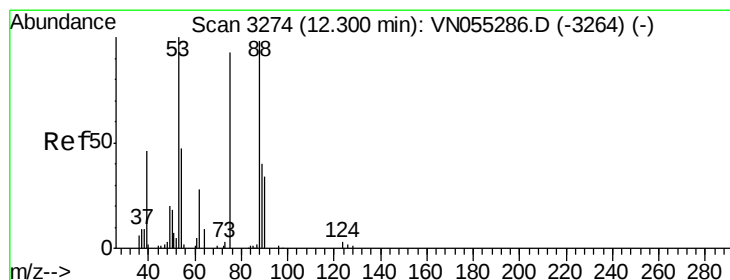
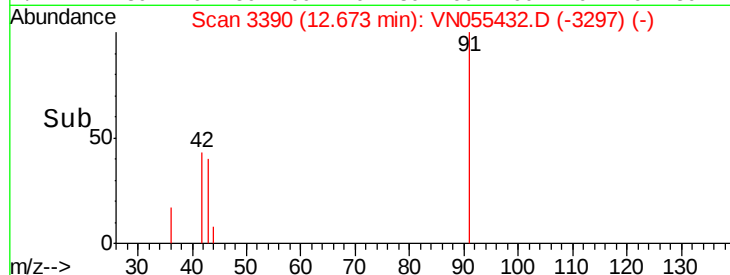
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 151.273 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

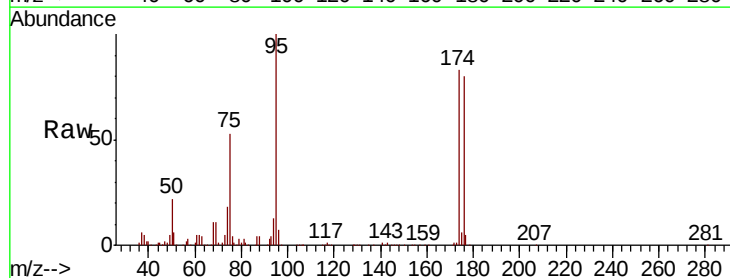
Tgt Ion: 75 Resp: 126384

Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

80000

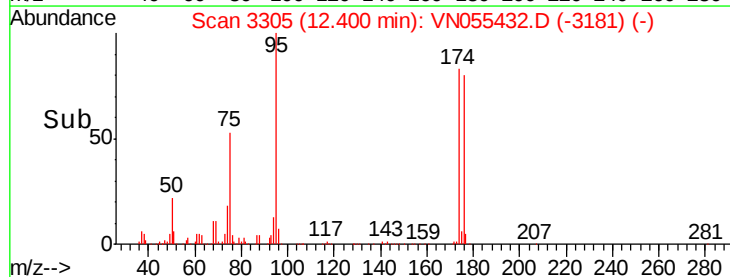
60000

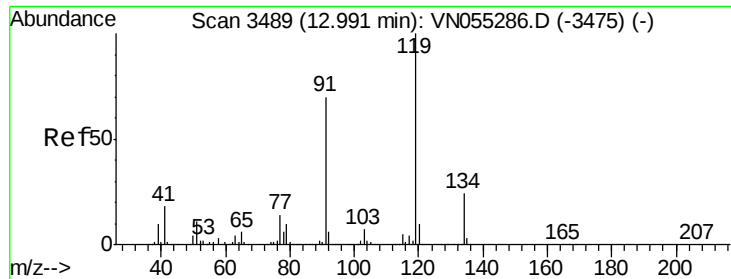
40000

20000

0

Time-->

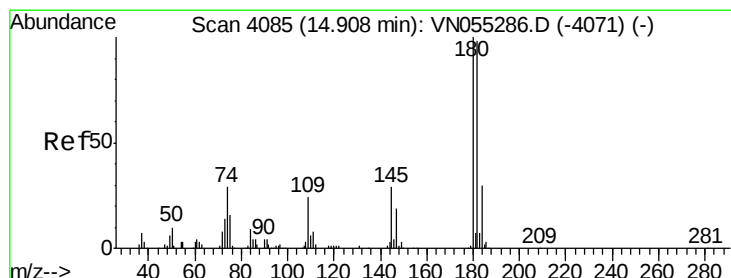
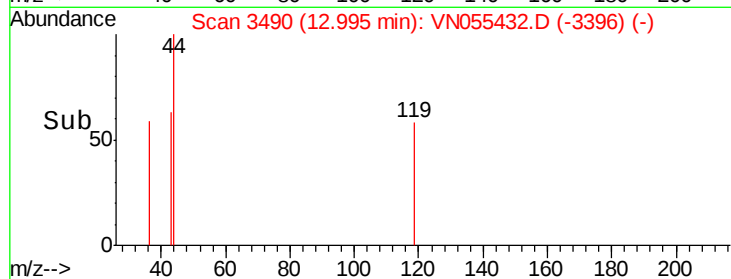
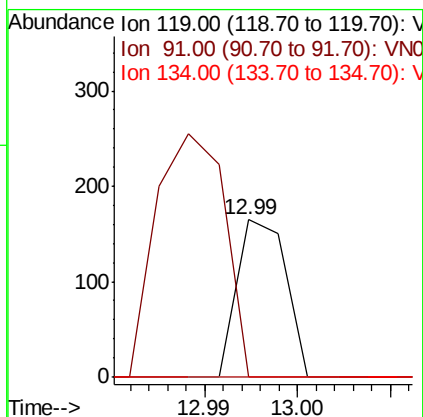
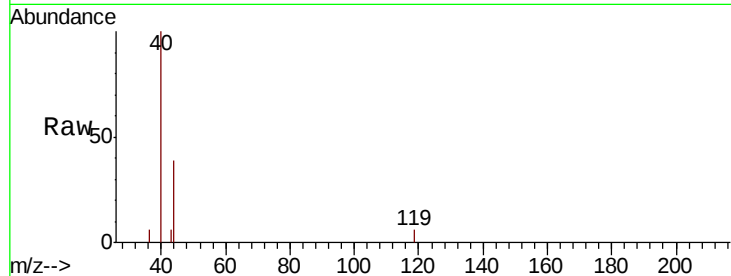




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

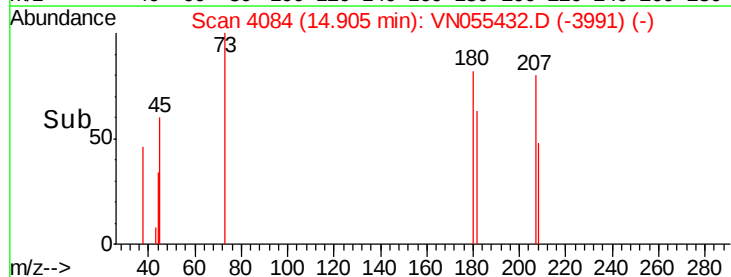
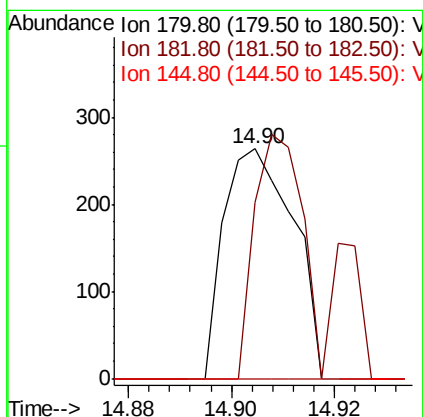
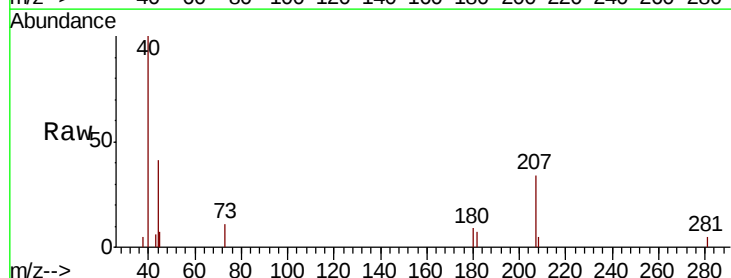
Instrument :
 MSVOA_N
 ClientSampled :
 TRIP-BLANK

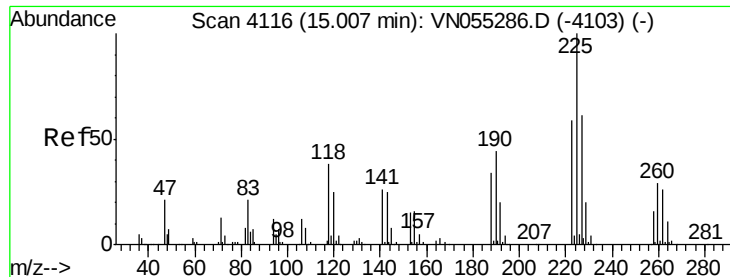
Tot Ion	Ratio	Lower	Upper
119	100		
91	214.8	34.3	102.9#
134	0.0	13.1	39.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.422 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	73.2	48.3	144.9
145	0.0	14.2	42.6#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

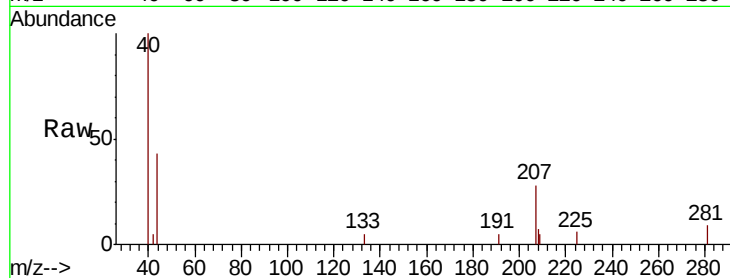
Tot Ion:225 Resp: 102

Ion Ratio Lower Upper

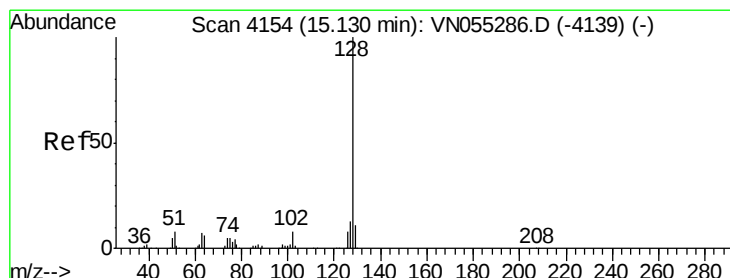
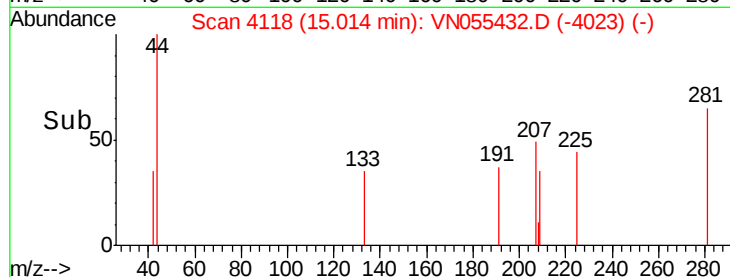
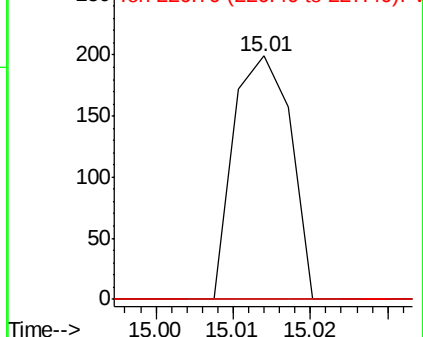
225 100

223 0.0 30.3 90.8#

227 0.0 30.9 92.7#



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: 3.467 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055432.D

Acq: 7 May 2019 12:58

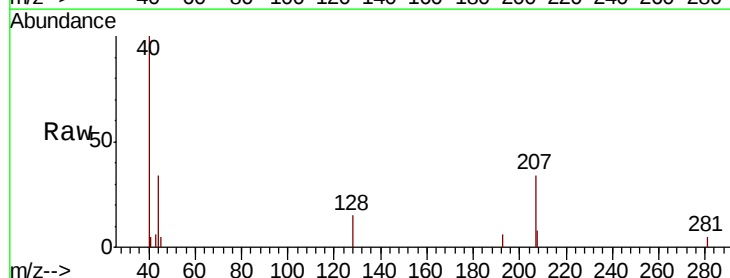
Tgt Ion:128 Resp: 653

Ion Ratio Lower Upper

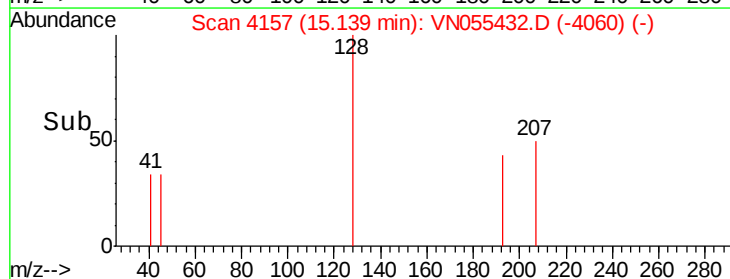
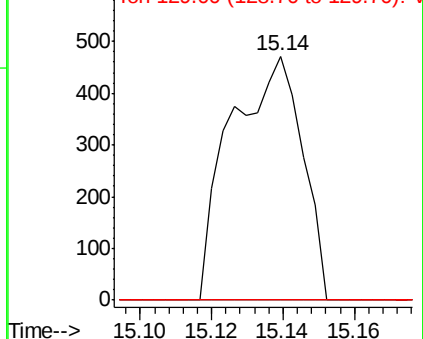
128 100

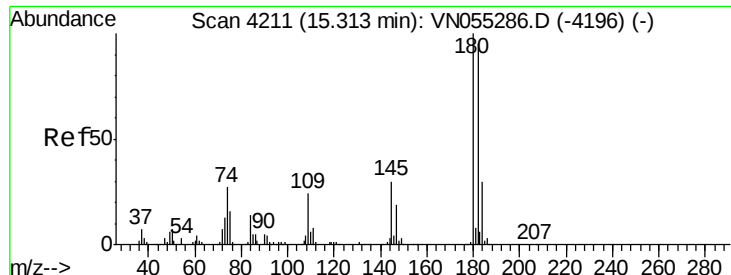
127 0.0 10.7 16.1#

129 0.0 8.6 13.0#



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

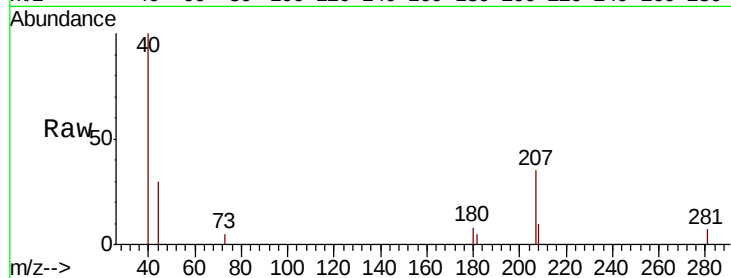




#96
 1,2,3-Trichlorobenzene
 Concen: 2.769 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055432.D
 Acq: 7 May 2019 12:58

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Tot Ion	Ratio	Lower	Upper
180	100		
182	44.5	48.3	144.9#
145	0.0	15.2	45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

