

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055454.D
 Acq On : 7 May 2019 23:03
 Operator : JC/SP
 Sample : K2717-02
 Misc : 5.24g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P026-SS001-0206-01

Quant Time: May 08 05:54:24 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	438890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	684476	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	553976	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	201084	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	286271	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	7.59	113	214851	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	10.09	98	797593	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.40	95	250058	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	

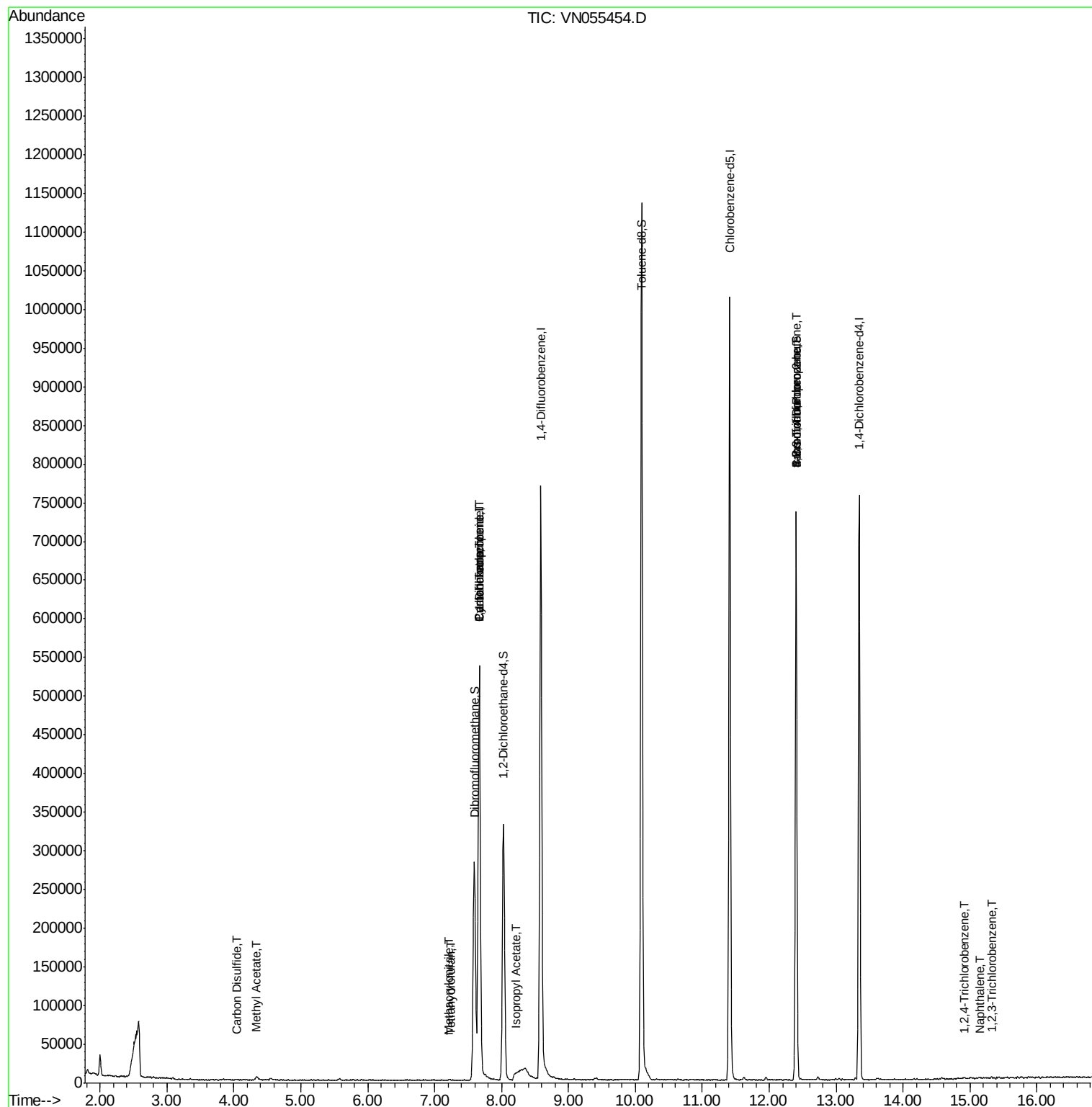
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) Carbon Disulfide	4.04	76	2587	0.229	ug/l #	74
18) Methyl Acetate	4.34	43	8002	0.817	ug/l #	81
29) Tetrahydrofuran	7.23	42	511	0.349	ug/l #	40
31) Cyclohexane	7.66	56	10823	1.198	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	35630	5.435	ug/l #	46
38) Carbon Tetrachloride	7.67	117	41955	6.634	ug/l #	15
41) Methacrylonitrile	7.22	41	106	0.778	ug/l #	1
43) Isopropyl Acetate	8.22	43	8708	1.078	ug/l #	56
71) Bromoform	12.40	173	2346	0.997	ug/l #	1
73) Isopropylbenzene	12.26	105	366	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	99	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	128234	33.477	ug/l #	100
77) Bromobenzene	12.52	156	68	Below Cal	#	1
79) 2-Chlorotoluene	12.67	91	634	Below Cal		93
81) trans-1,4-Dichloro-2-buten	12.40	75	128234	120.851	ug/l #	7
83) tert-Butylbenzene	12.98	119	226	Below Cal		69
93) 1,2,4-Trichlorobenzene	14.91	180	702	3.560	ug/l #	85
94) Hexachlorobutadiene	15.01	225	235	Below Cal	#	20
95) Naphthalene	15.14	128	1361	3.556	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	606	2.834	ug/l #	76

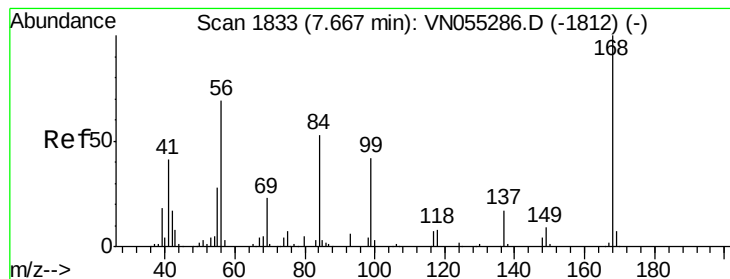
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

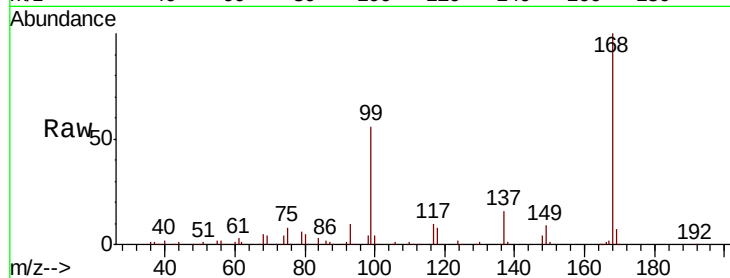
P026-SS001-0206-01

Tot Ion:168 Resp: 438890

Ion Ratio Lower Upper

168 100

99 56.1 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN055454.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055454.D (-1740) (-)

7.67

200000

150000

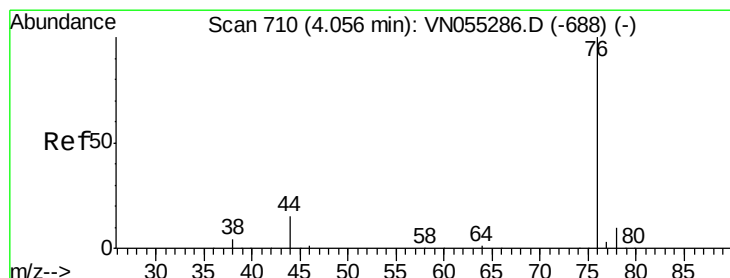
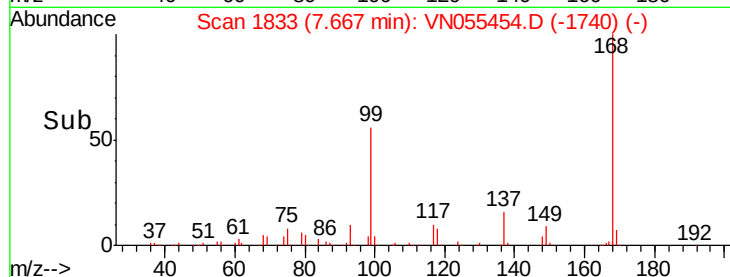
100000

50000

0

7.60 7.70

Time-->



#17

Carbon Disulfide

Concen: 0.229 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.02 min

Lab File: VN055454.D

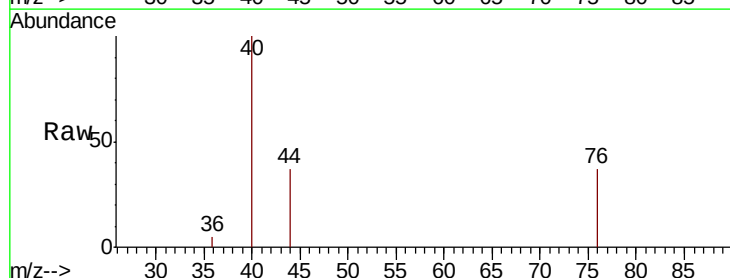
Acq: 7 May 2019 23:03

Tgt Ion: 76 Resp: 2587

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN055454.D (-617) (-)

Ion 77.90 (77.60 to 78.60): VN055454.D (-617) (-)

4.04

1200

1000

800

600

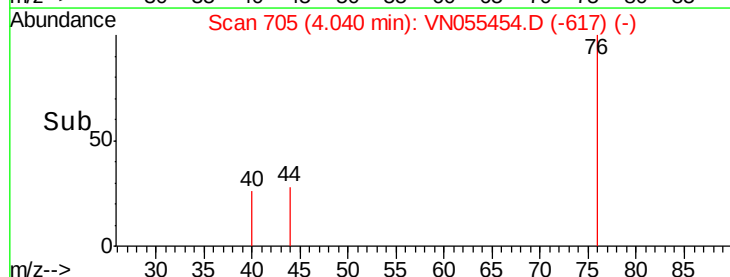
400

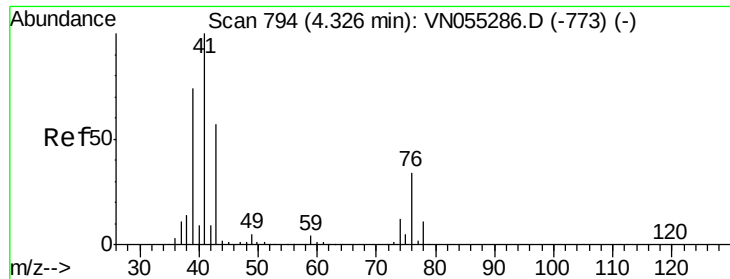
200

0

4.00 4.05 4.10

Time-->

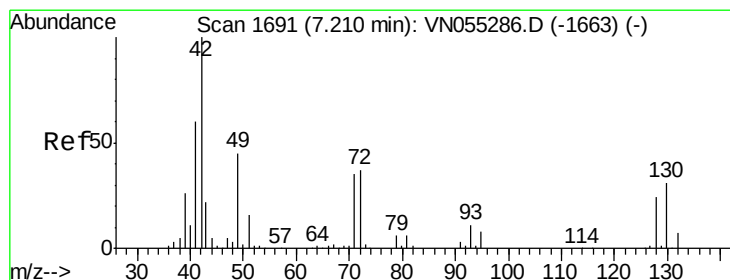
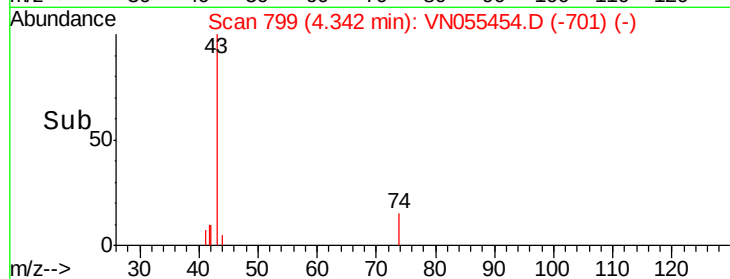
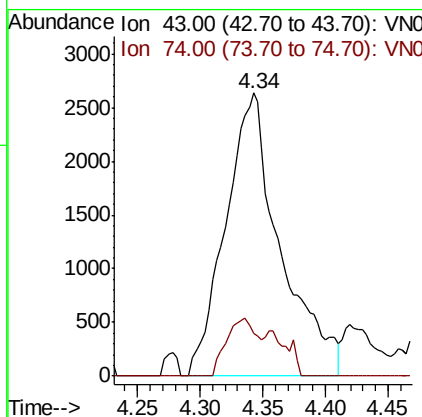
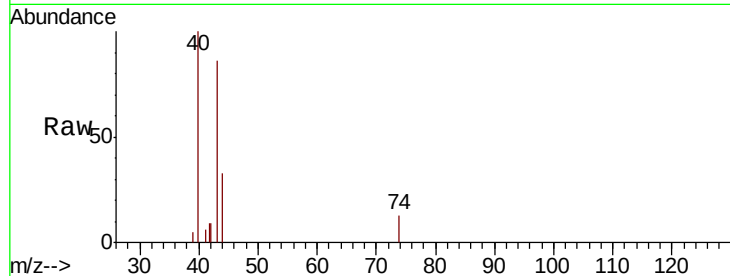




#18
Methvl Acetate
Concen: 0.817 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN055454.D
Acq: 7 May 2019 23:03

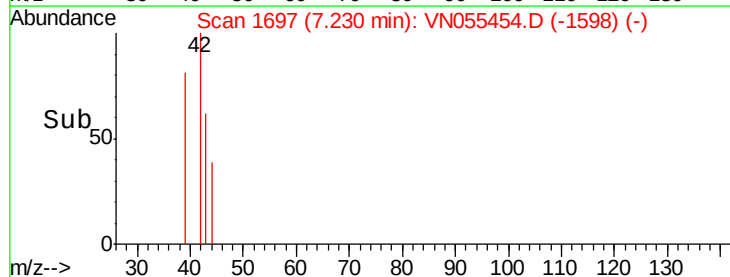
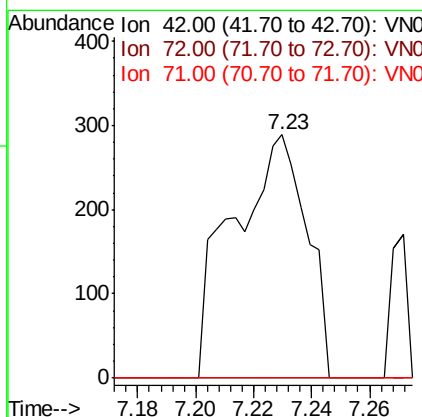
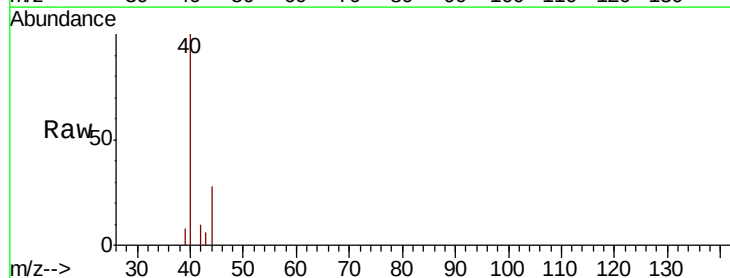
Instrument :
MSVOA_N
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P026-SS001-0206-01

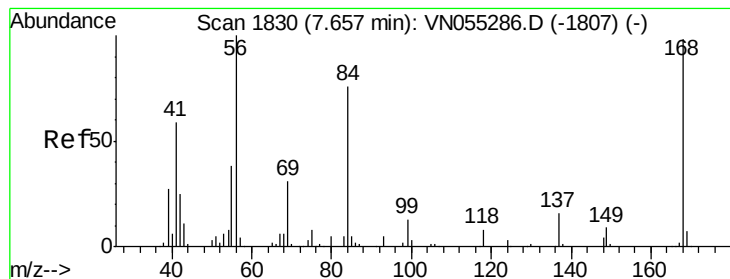
Tot Ion: 43 Resp: 8002
Ion Ratio Lower Upper
43 100
74 11.3 15.8 23.8#



#29
Tetrahydrofuran
Concen: 0.349 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN055454.D
Acq: 7 May 2019 23:03

Tgt Ion: 42 Resp: 511
Ion Ratio Lower Upper
42 100
72 0.0 29.0 43.6#
71 0.0 27.1 40.7#





#31

Cyclohexane

Concen: 1.198 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

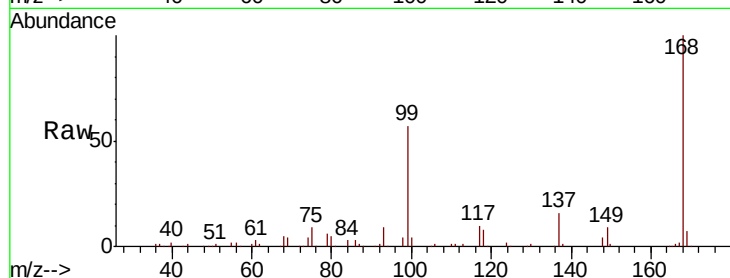
Tot Ion: 56 Resp: 10823

Ion Ratio Lower Upper

56 100

69 174.4 25.2 37.8#

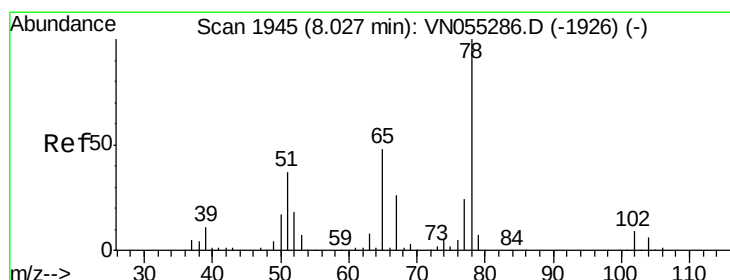
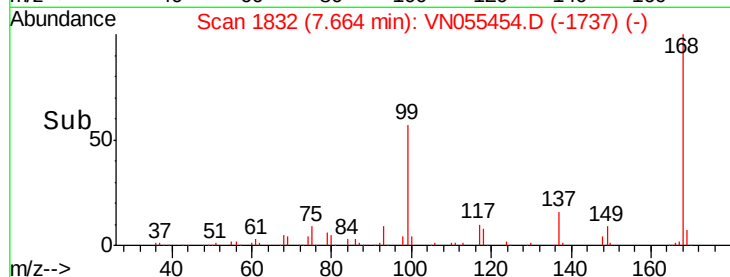
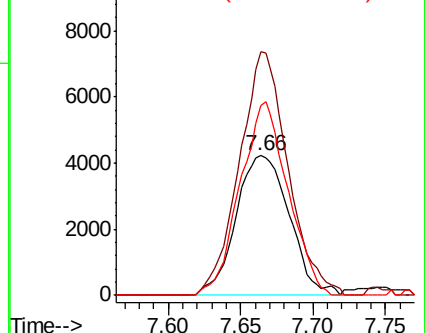
84 136.3 61.1 91.7#



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: 49.858 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055454.D

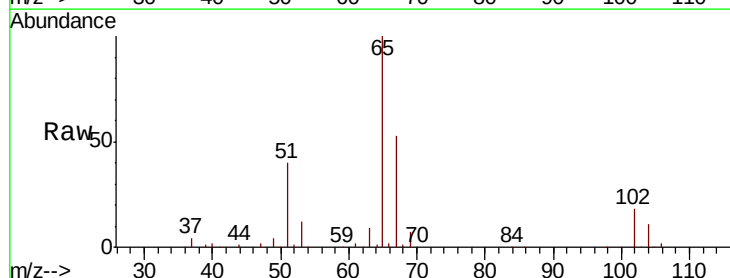
Acq: 7 May 2019 23:03

Tgt Ion: 65 Resp: 286271

Ion Ratio Lower Upper

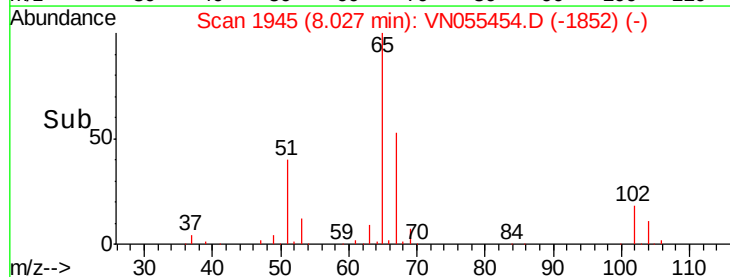
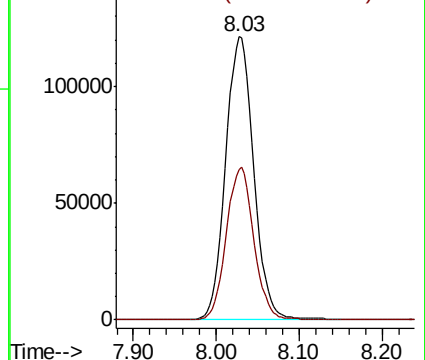
65 100

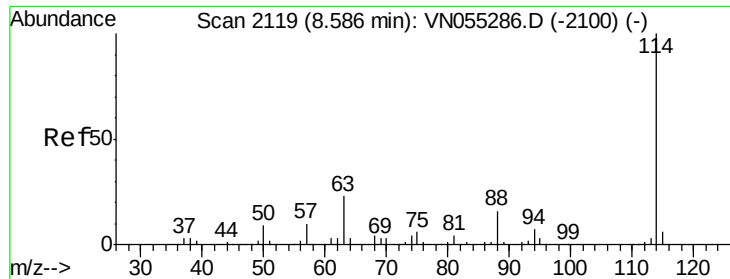
67 52.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

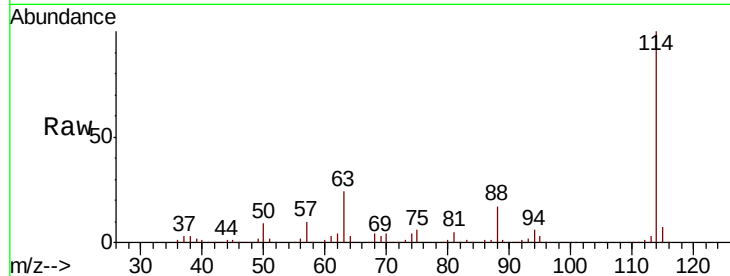




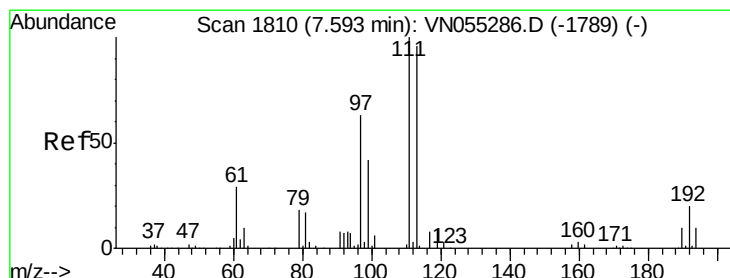
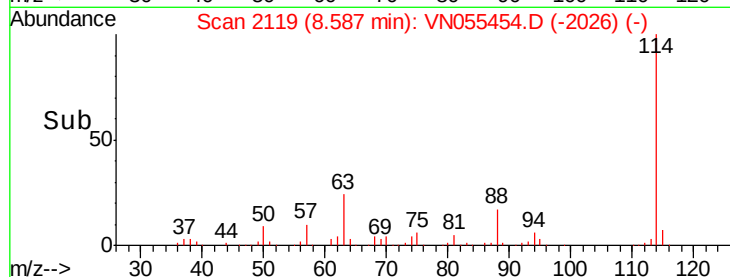
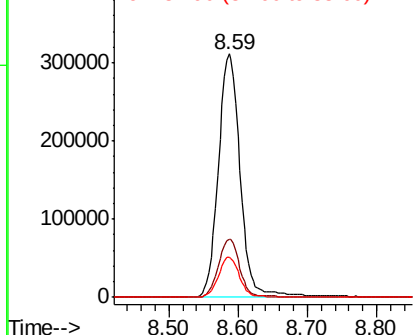
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN055454.D
Acq: 7 May 2019 23:03

Instrument :
MSVOA_N
ClientSampleId :
P026-SS001-0206-01

Tot Ion:114 Resp: 684476
Ion Ratio Lower Upper
114 100
63 24.0 0.0 45.2
88 16.7 0.0 31.6

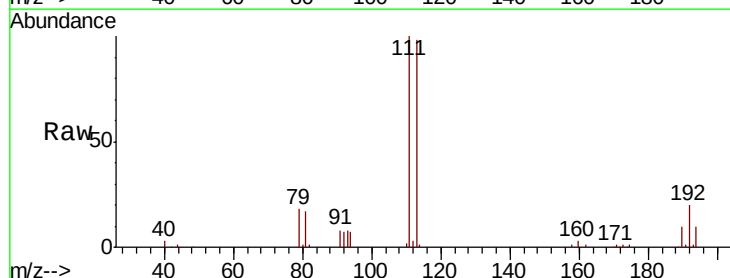


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

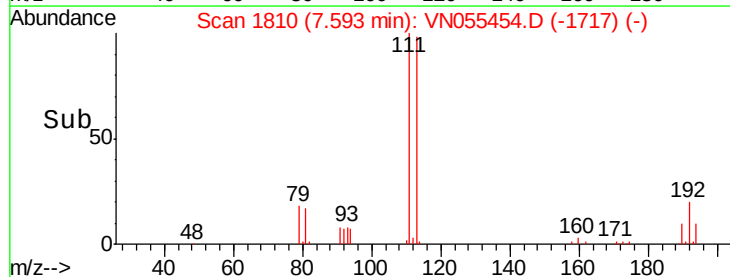
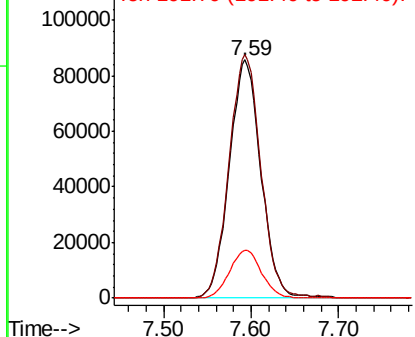


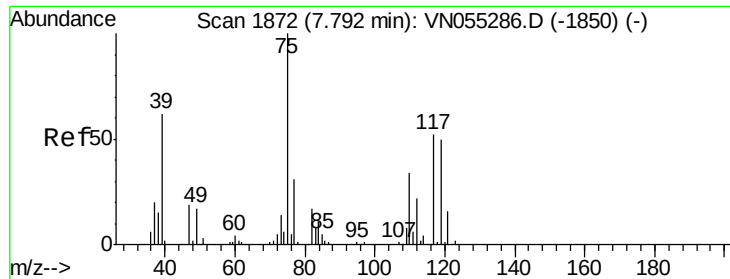
#35
Dibromofluoromethane
Concen: 47.823 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN055454.D
Acq: 7 May 2019 23:03

Tgt Ion:113 Resp: 214851
Ion Ratio Lower Upper
113 100
111 102.6 82.3 123.5
192 20.4 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: 5.435 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

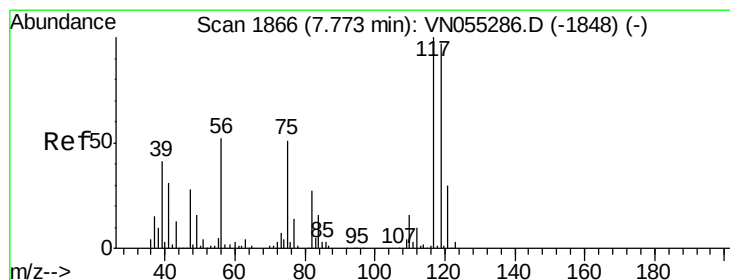
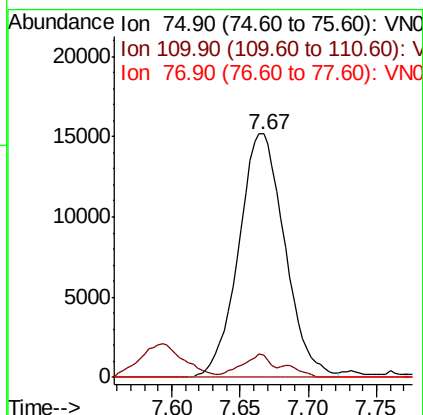
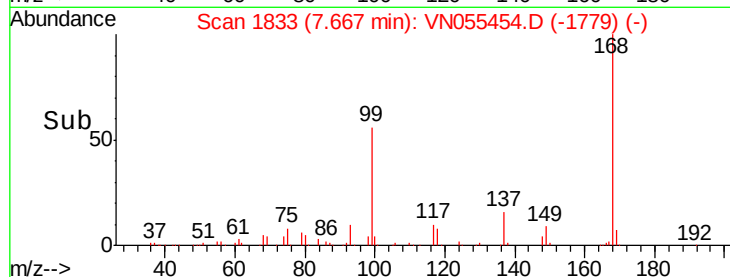
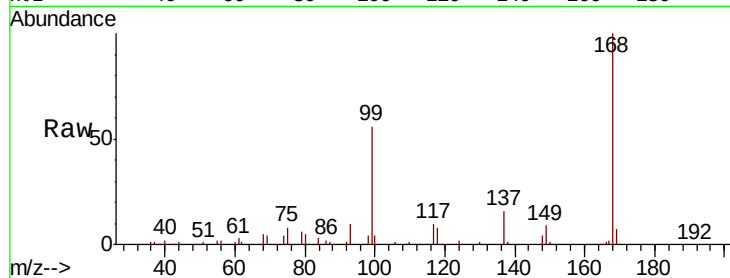
Tot Ion: 75 Resp: 35630

Ion Ratio Lower Upper

75 100

110 4.6 16.8 50.4#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 6.634 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

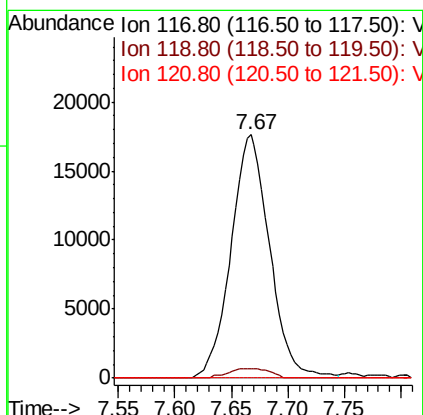
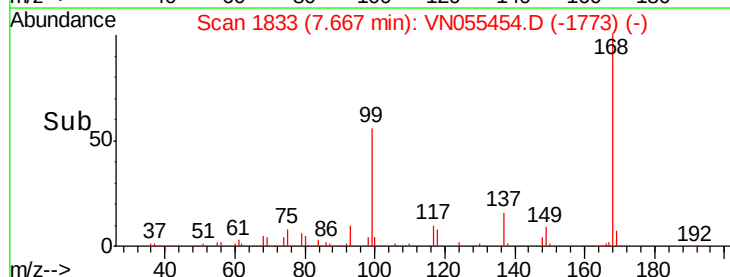
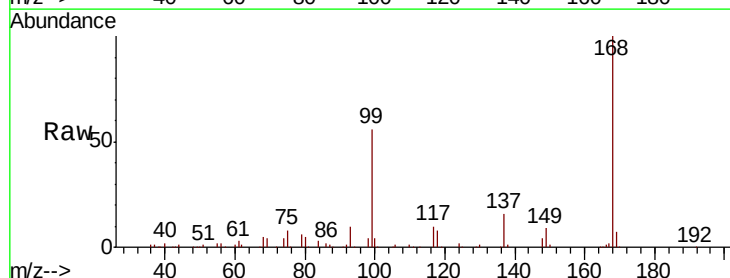
Tgt Ion: 117 Resp: 41955

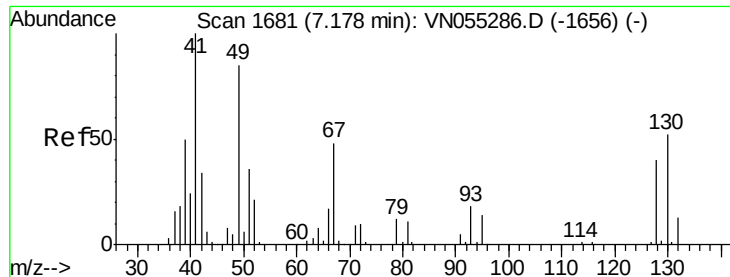
Ion Ratio Lower Upper

117 100

119 3.8 77.0 115.6#

121 0.0 23.8 35.8#

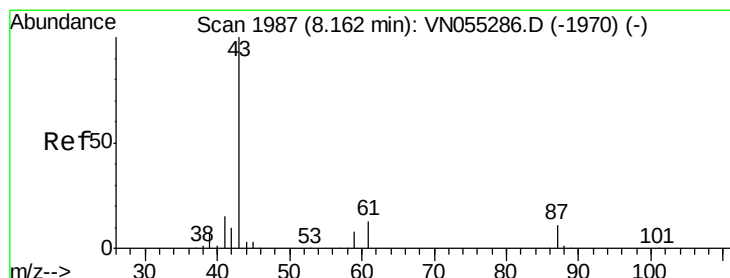
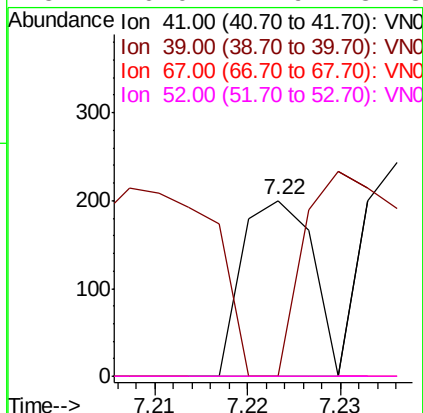
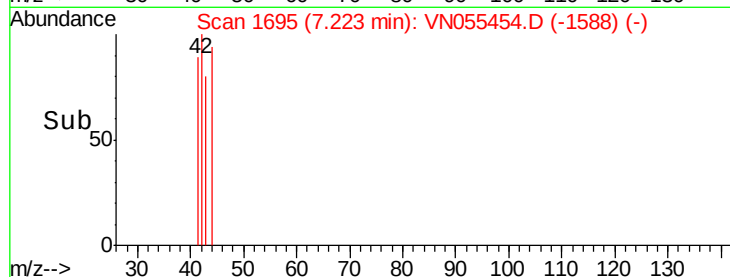
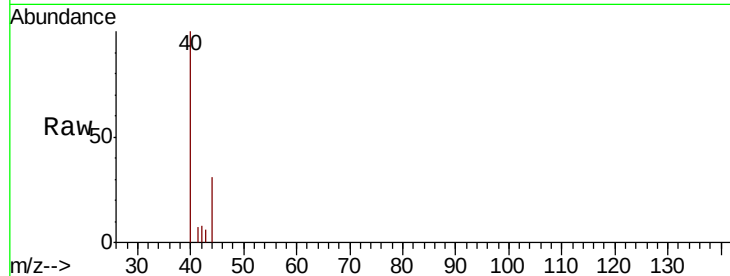




#41
Methacrylonitrile
Concen: 0.778 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.05 min
Lab File: VN055454.D
Acq: 7 May 2019 23:03

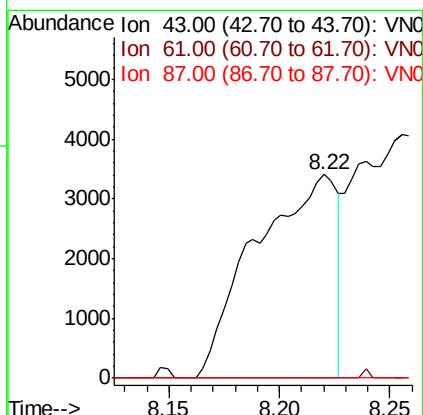
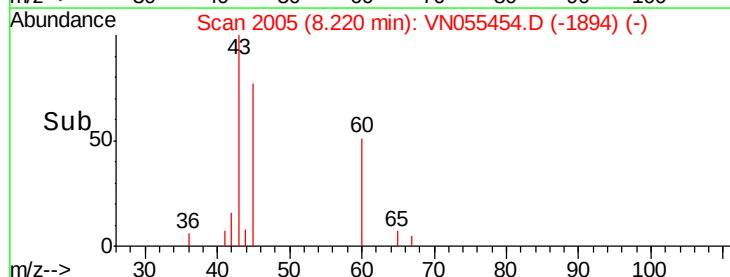
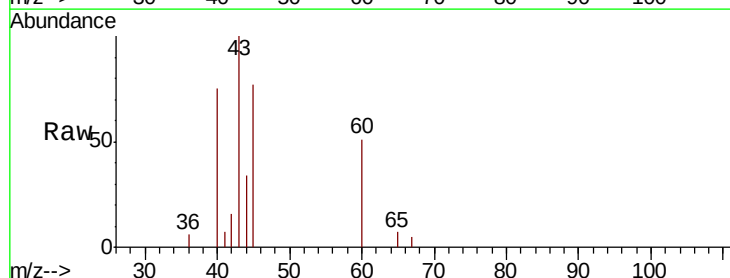
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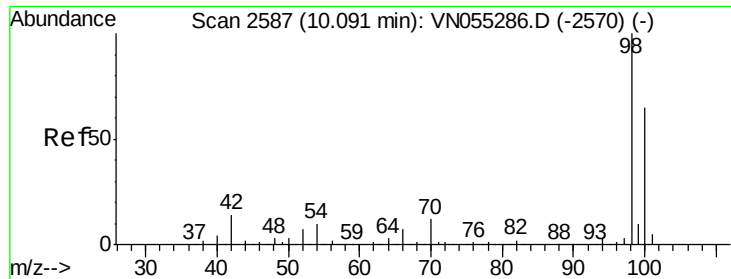
Tot Ion: 41 Resp: 106
Ion Ratio Lower Upper
41 100
39 177.4 48.5 72.7#
67 0.0 54.9 82.3#
52 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.078 ug/l
RT: 8.22 min Scan# 2005
Delta R.T. 0.06 min
Lab File: VN055454.D
Acq: 7 May 2019 23:03

Tgt Ion: 43 Resp: 8708
Ion Ratio Lower Upper
43 100
61 0.0 20.8 31.2#
87 0.0 8.5 12.7#





#50

Toluene-d8

Concen: 49.166 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

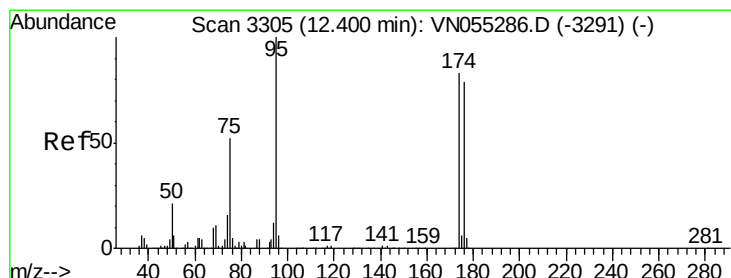
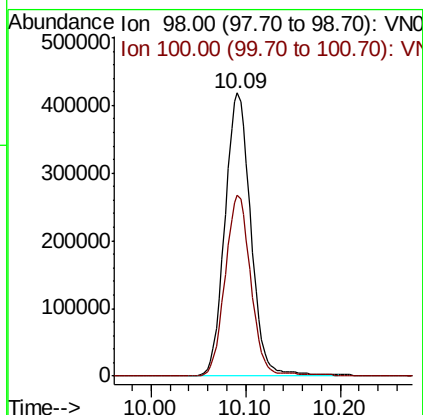
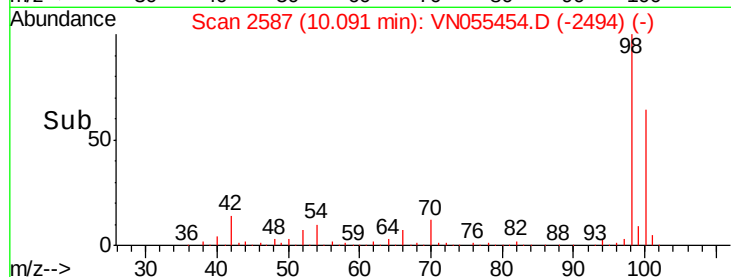
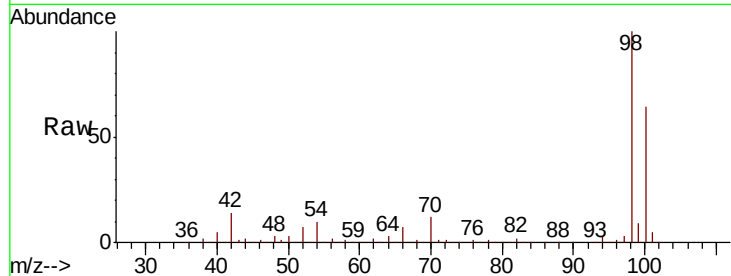
P026-SS001-0206-01

Tot Ion: 98 Resp: 797593

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 49.320 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

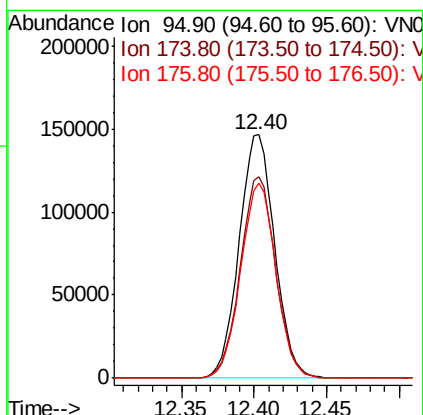
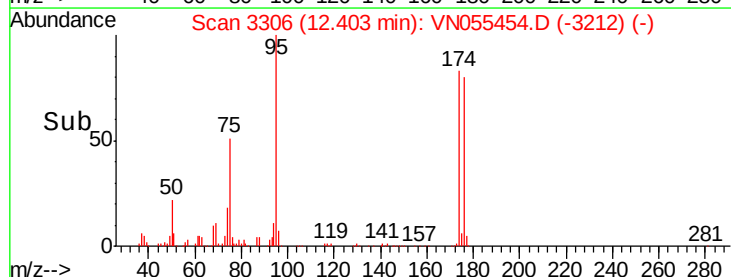
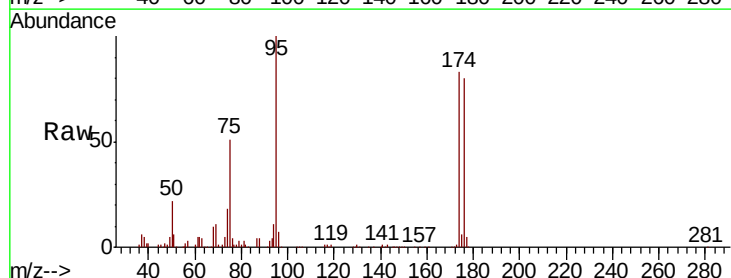
Tgt Ion: 95 Resp: 250058

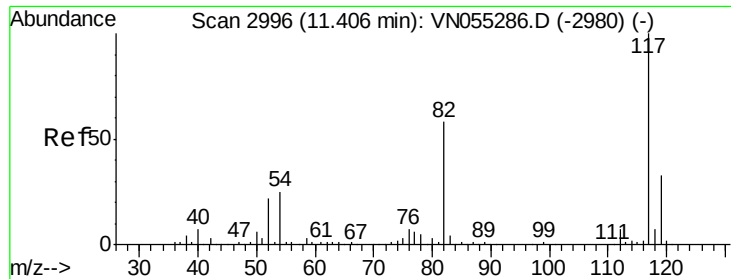
Ion Ratio Lower Upper

95 100

174 82.0 0.0 166.6

176 79.4 0.0 157.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

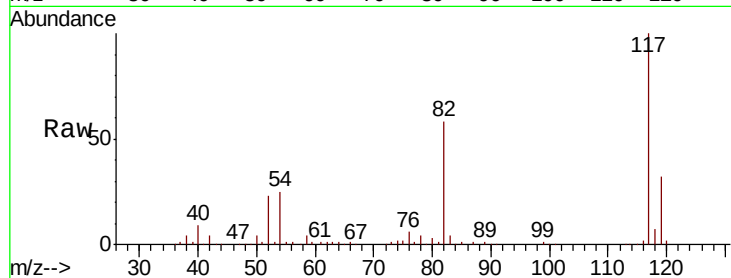
Tot Ion:117 Resp: 553976

Ion Ratio Lower Upper

117 100

82 57.8 46.2 69.4

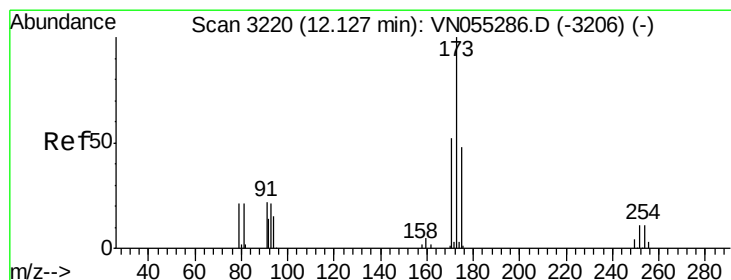
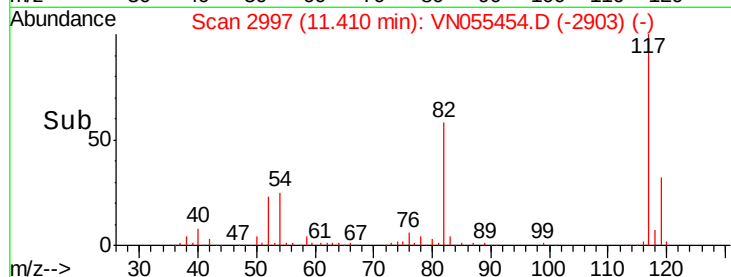
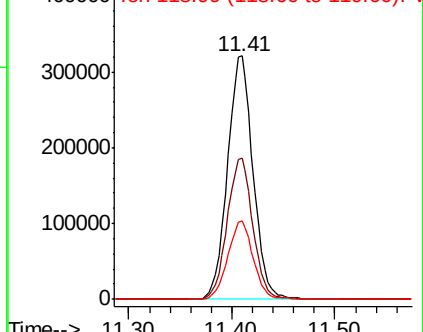
119 32.1 26.6 40.0



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



#71

Bromoform

Concen: 0.997 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

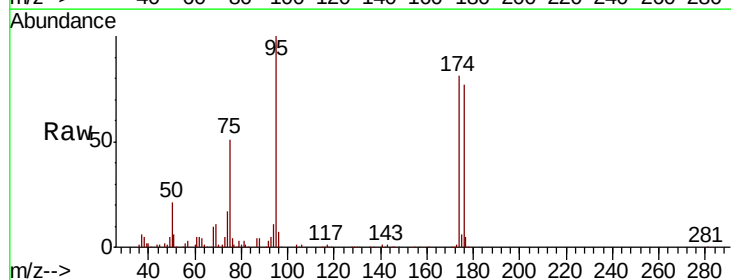
Tgt Ion:173 Resp: 2346

Ion Ratio Lower Upper

173 100

175 548.2 23.6 71.0#

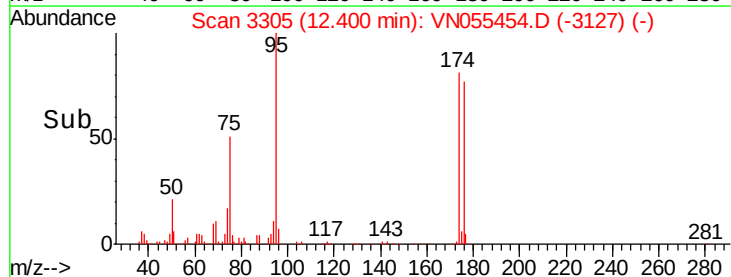
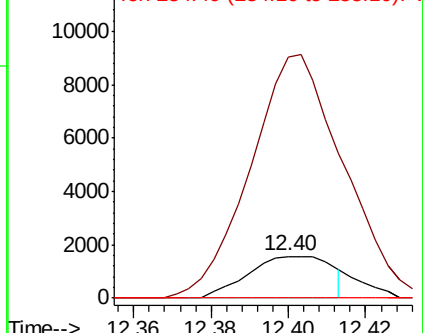
254 0.0 0.0 0.0

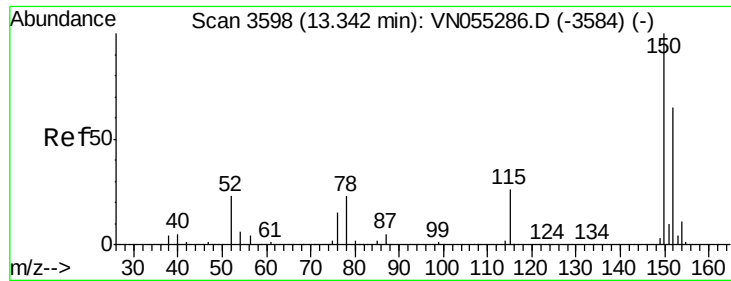


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

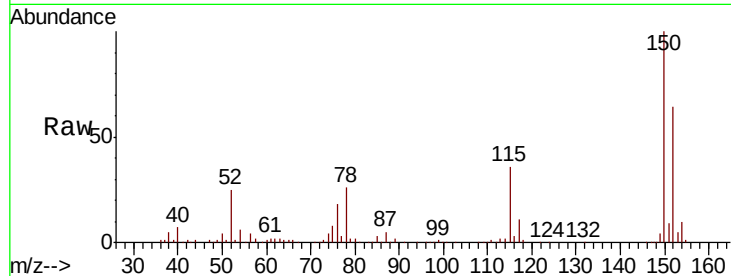
Tot Ion:152 Resp: 201084

Ion Ratio Lower Upper

152 100

115 57.5 29.0 87.0

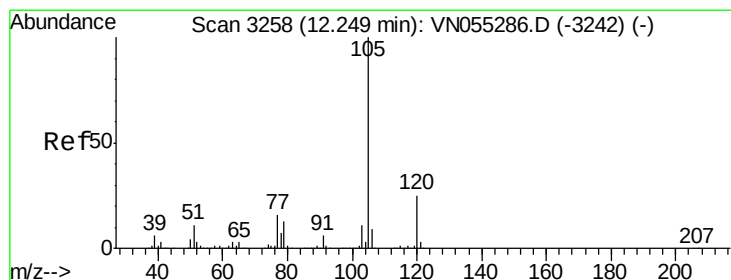
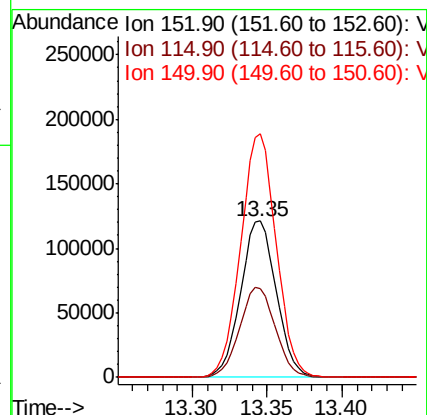
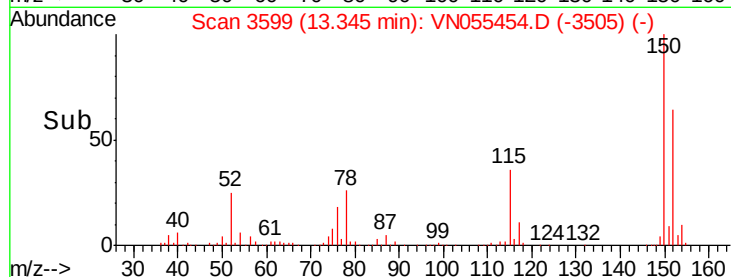
150 155.2 0.0 345.6



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: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055454.D

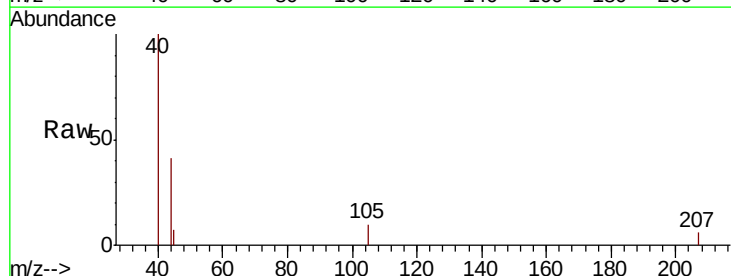
Acq: 7 May 2019 23:03

Tgt Ion:105 Resp: 366

Ion Ratio Lower Upper

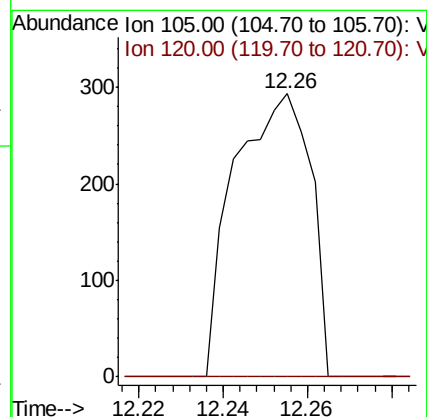
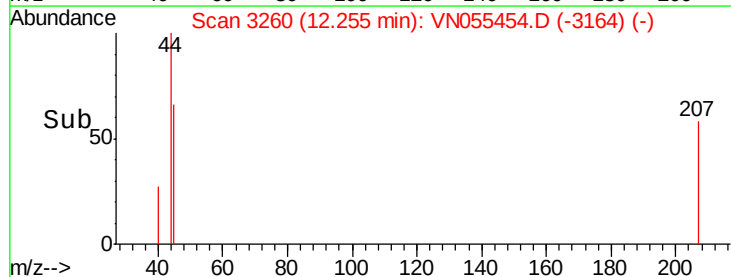
105 100

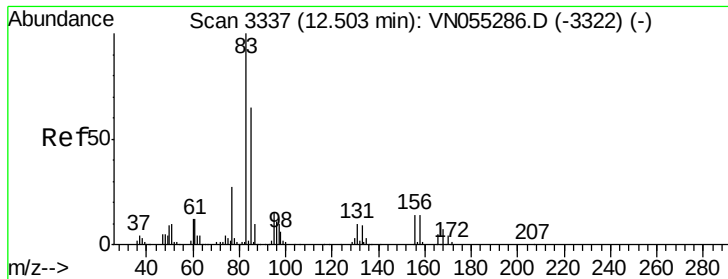
120 0.0 12.9 38.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

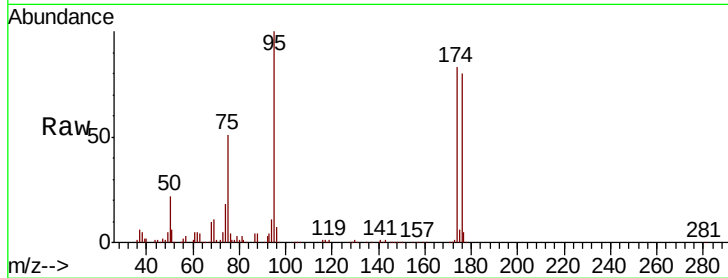
Tot Ion: 83 Resp: 99

Ion Ratio Lower Upper

83 100

131 171.7 5.1 15.2#

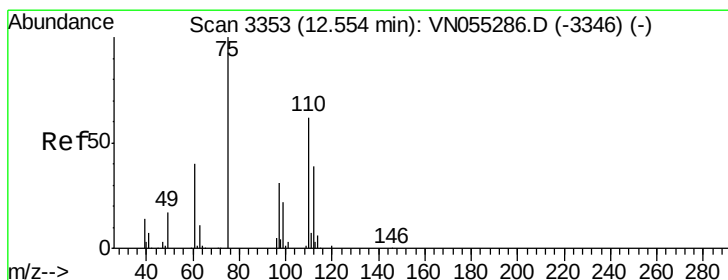
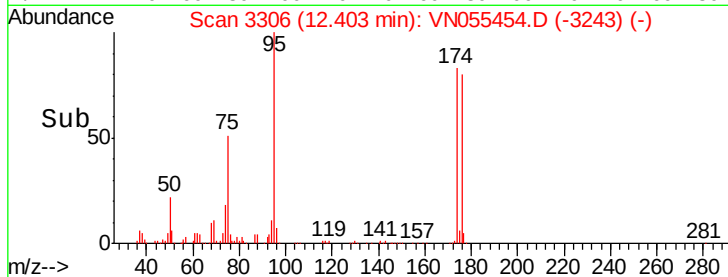
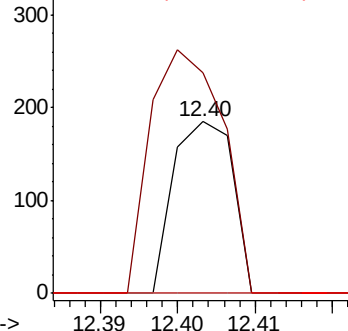
85 0.0 32.3 96.8#



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



#76

1,2,3-Trichloropropane

Concen: 33.477 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055454.D

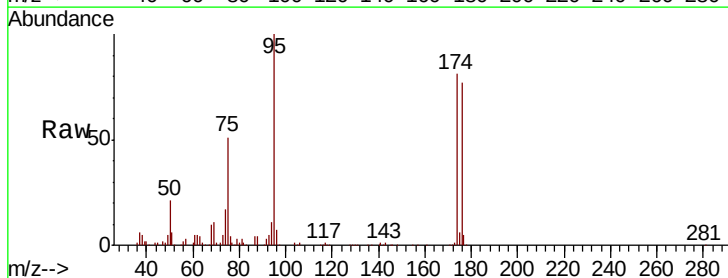
Acq: 7 May 2019 23:03

Tgt Ion: 75 Resp: 128234

Ion Ratio Lower Upper

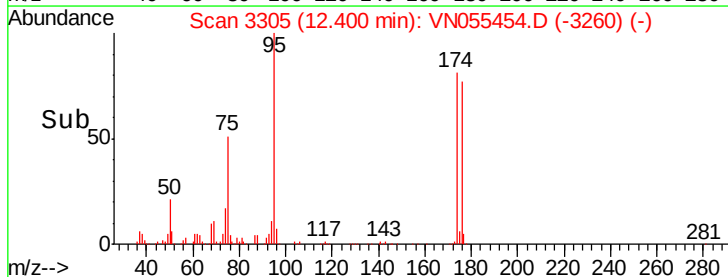
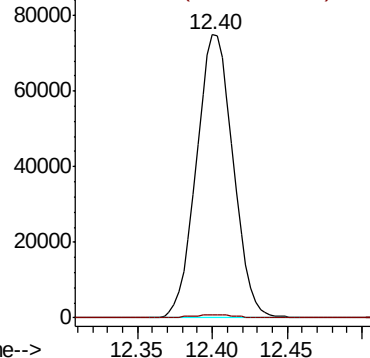
75 100

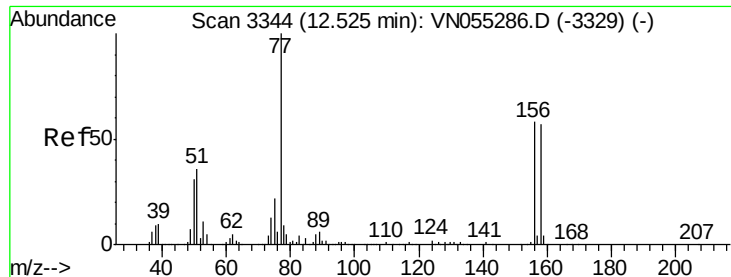
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

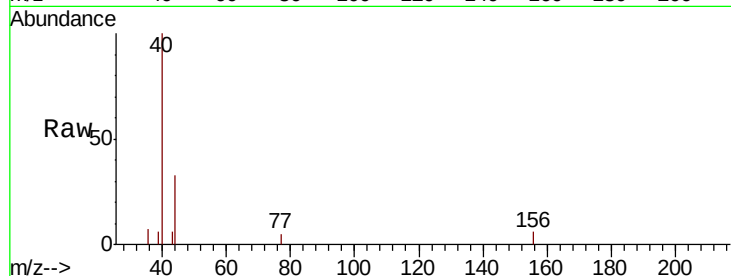
Tot Ion:156 Resp: 68

Ion Ratio Lower Upper

156 100

77 367.6 99.6 298.8#

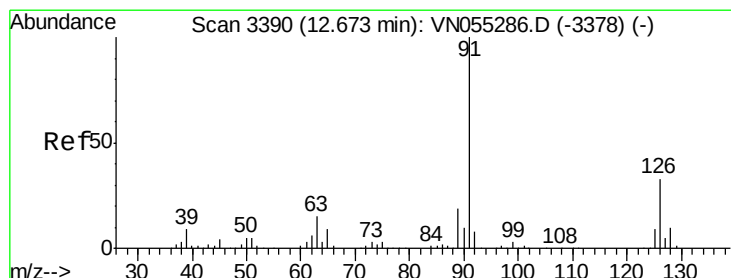
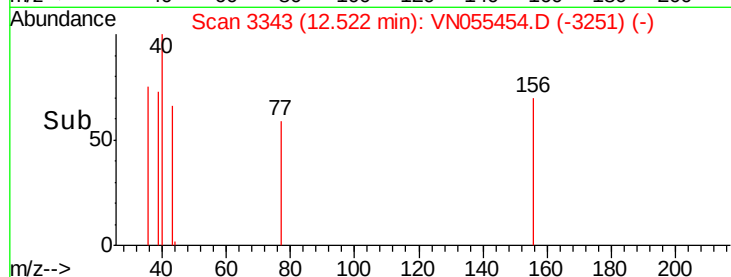
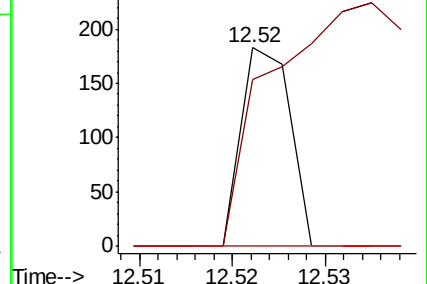
158 0.0 49.3 147.8#



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: VN055454.D

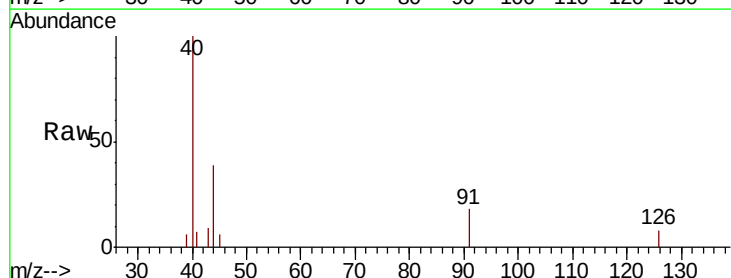
Acq: 7 May 2019 23:03

Tgt Ion: 91 Resp: 634

Ion Ratio Lower Upper

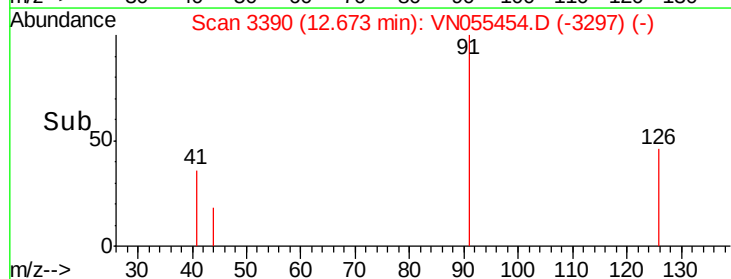
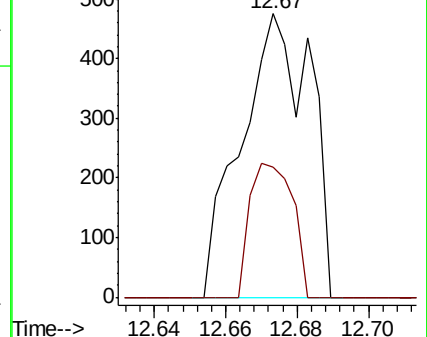
91 100

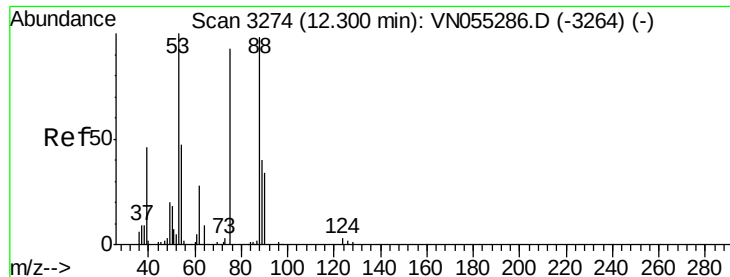
126 29.3 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 120.851 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

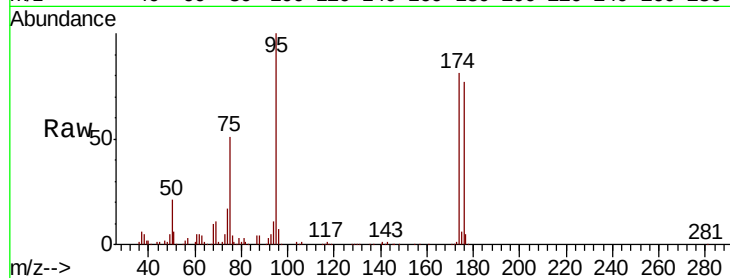
Tot Ion: 75 Resp: 128234

Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

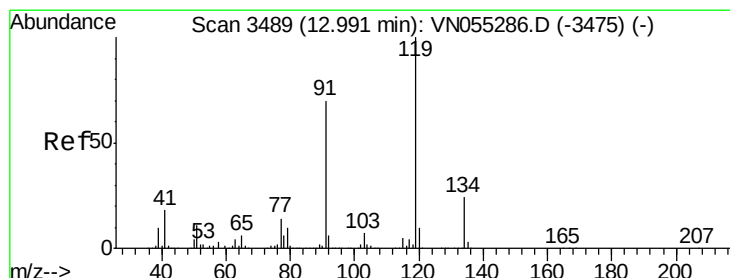
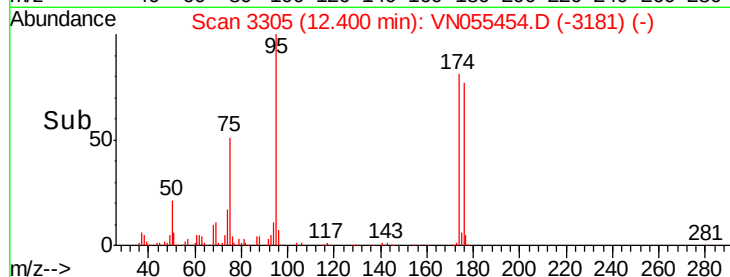
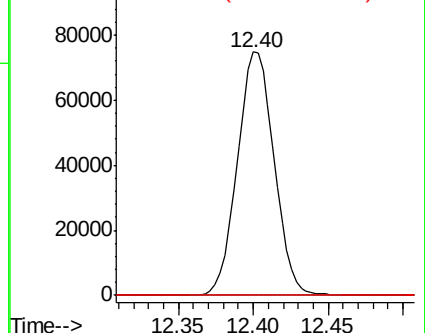
89 0.0 34.6 51.8#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.98 min Scan# 3486

Delta R.T. -0.01 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

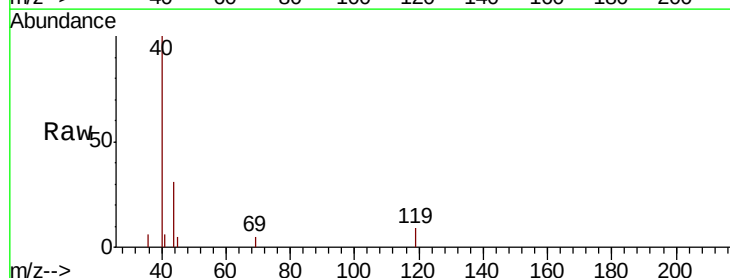
Tgt Ion: 119 Resp: 226

Ion Ratio Lower Upper

119 100

91 41.2 34.3 102.9

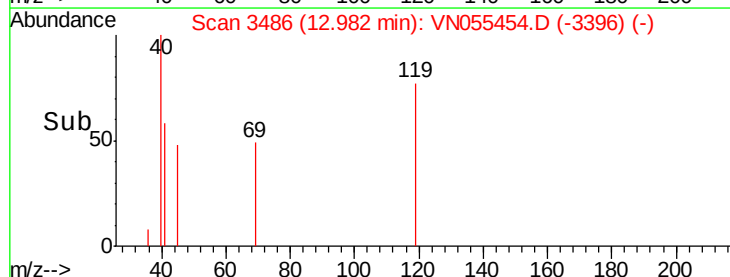
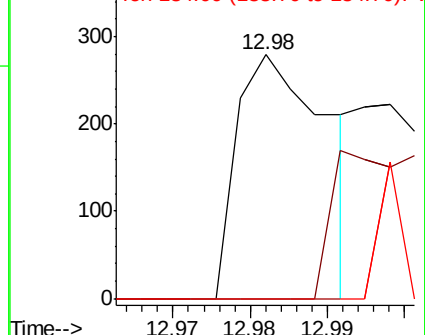
134 13.3 13.1 39.3

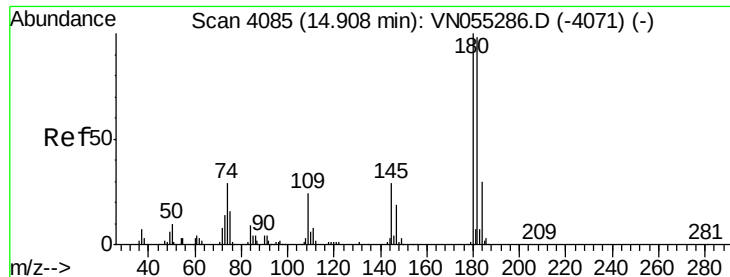


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 3.560 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

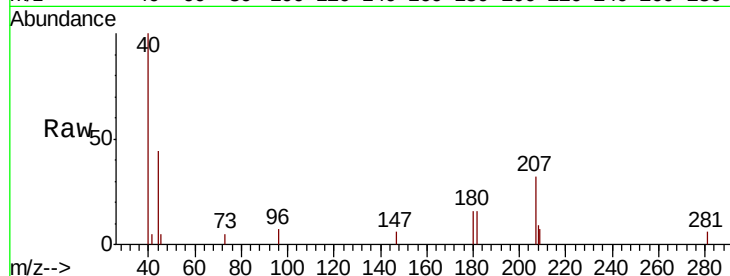
Tot Ion:180 Resp: 702

Ion Ratio Lower Upper

180 100

182 93.6 48.3 144.9

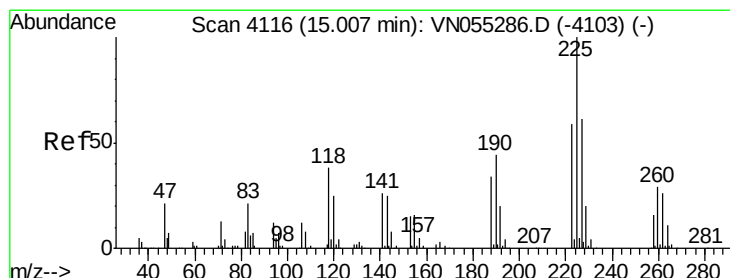
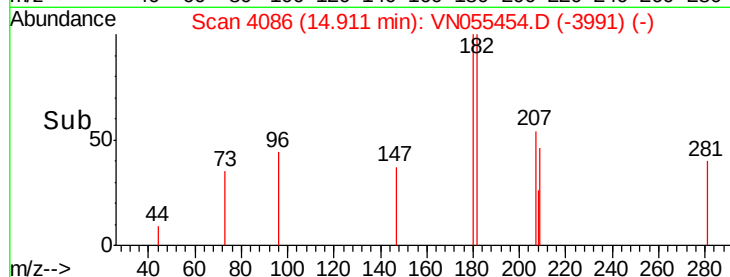
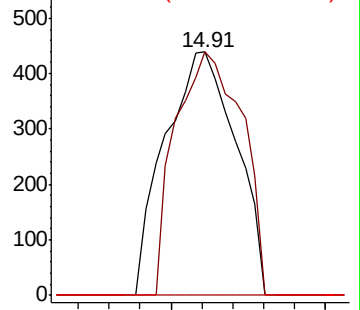
145 0.0 14.2 42.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

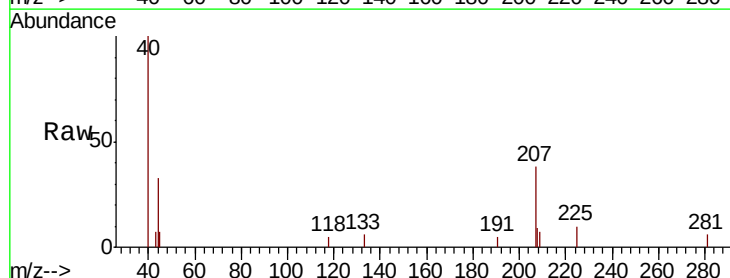
Tgt Ion:225 Resp: 235

Ion Ratio Lower Upper

225 100

223 0.0 30.3 90.8#

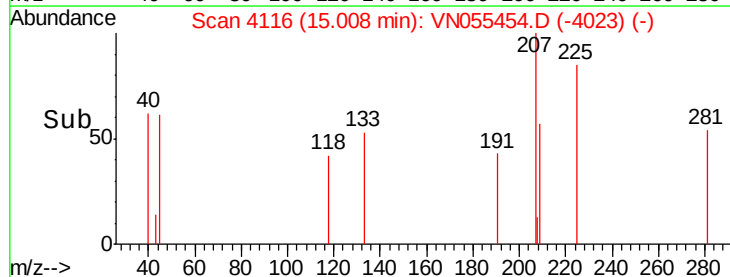
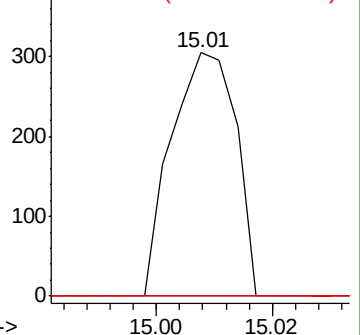
227 0.0 30.9 92.7#

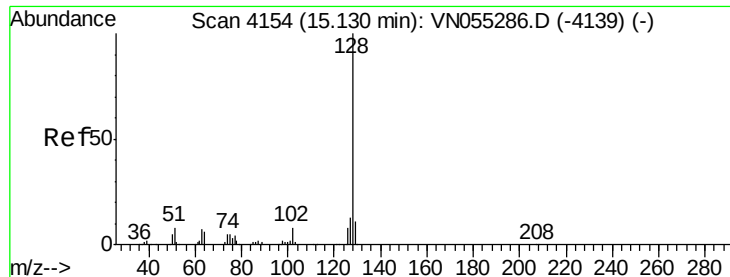


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.556 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

P026-SS001-0206-01

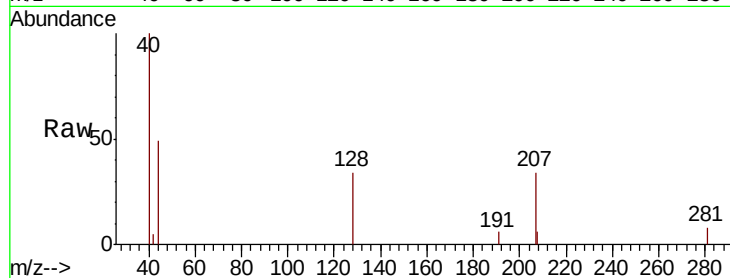
Tot Ion:128 Resp: 1361

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

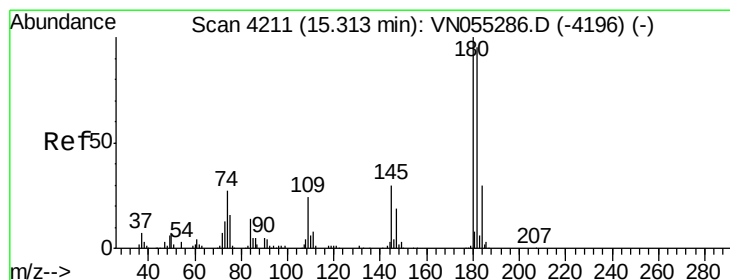
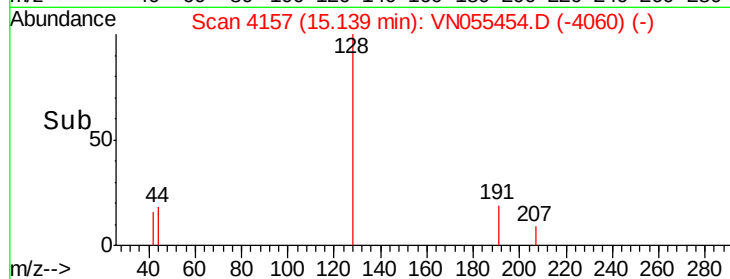
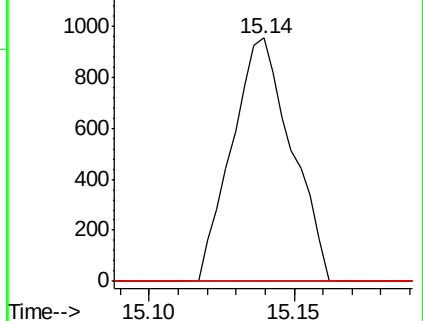
129 0.0 8.6 13.0#



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: 2.834 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN055454.D

Acq: 7 May 2019 23:03

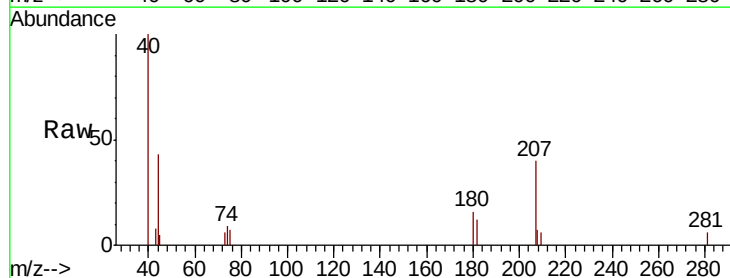
Tgt Ion:180 Resp: 606

Ion Ratio Lower Upper

180 100

182 77.2 48.3 144.9

145 9.7 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

