

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058031.D
 Acq On : 13 Sep 2019 20:51
 Operator : JC/SP
 Sample : K4680-37
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-4-(1.5)

Quant Time: Sep 14 03:39:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	281789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	488814	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	438288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	218322	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	325209	56.98	ug/l	0.00
Spiked Amount			Recovery	=	113.96%	
35) Dibromofluoromethane	7.58	113	226453	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
50) Toluene-d8	10.09	98	792110	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	
62) 4-Bromofluorobenzene	12.40	95	270609	40.54	ug/l	0.00
Spiked Amount			Recovery	=	81.08%	

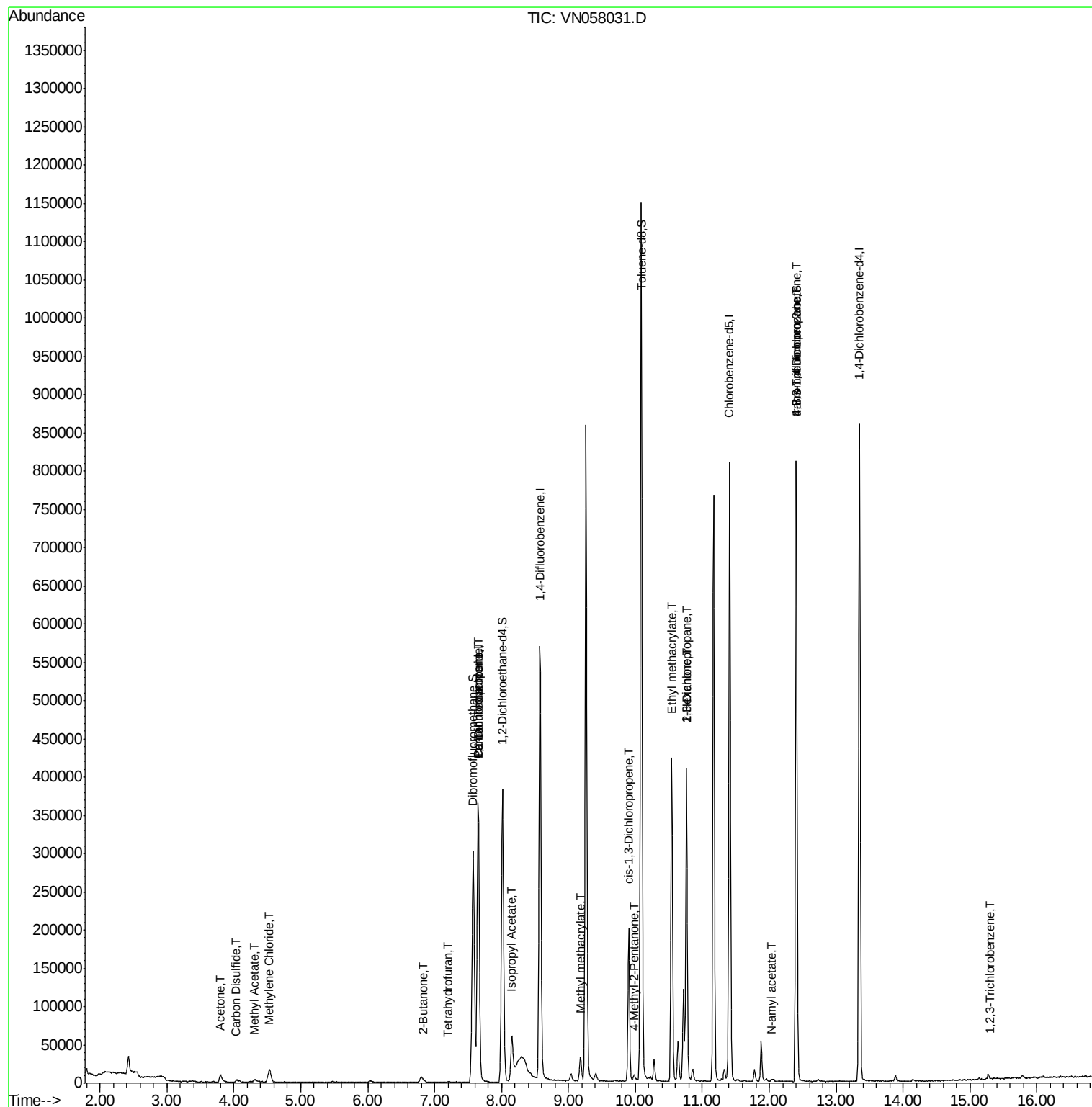
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	529	Below Cal	#	58
16) Acetone	3.80	43	16245	8.683	ug/l	93
17) Carbon Disulfide	4.02	76	241	0.210	ug/l #	75
18) Methyl Acetate	4.31	43	4256	0.853	ug/l #	86
20) Methylene Chloride	4.53	84	11865	2.153	ug/l	94
25) 2-Butanone	6.83	43	1315	0.486	ug/l #	49
29) Tetrahydrofuran	7.20	42	733	0.439	ug/l #	38
31) Cyclohexane	7.65	56	7486	Below Cal	#	31
36) 1,1-Dichloropropene	7.65	75	24405	4.305	ug/l #	49
38) Carbon Tetrachloride	7.65	117	28603	5.526	ug/l #	15
43) Isopropyl Acetate	8.15	43	78813	8.002	ug/l #	87
48) Methyl methacrylate	9.18	41	3889	0.778	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6940	1.191	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	30643	4.398	ug/l #	75
56) Ethyl methacrylate	10.54	69	1500	0.219	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4273	0.545	ug/l #	43
59) 2-Hexanone	10.76	43	62444	14.293	ug/l #	54
74) N-amyl acetate	12.04	43	1890	0.256	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	148678	30.104	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	148678	105.936	ug/l #	6
95) Naphthalene	15.14	128	1975	Below Cal	#	76
96) 1,2,3-Trichlorobenzene	15.30	180	469	1.102	ug/l #	42

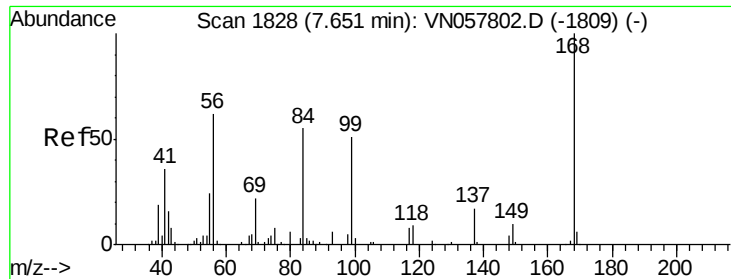
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

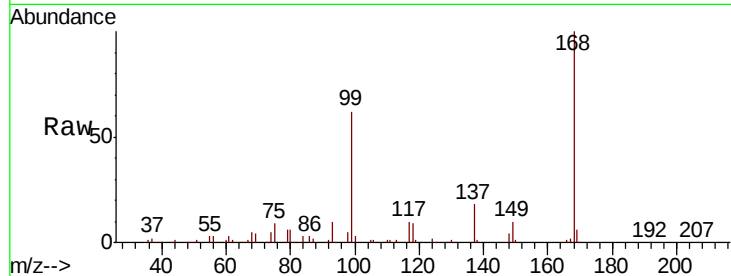
T3-4-(1.5)

Tgt Ion:168 Resp: 281789

Ion Ratio Lower Upper

168 100

99 62.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

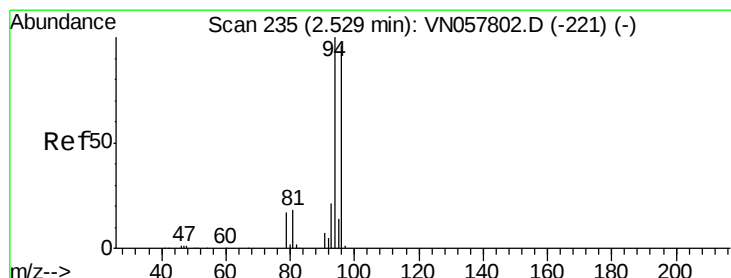
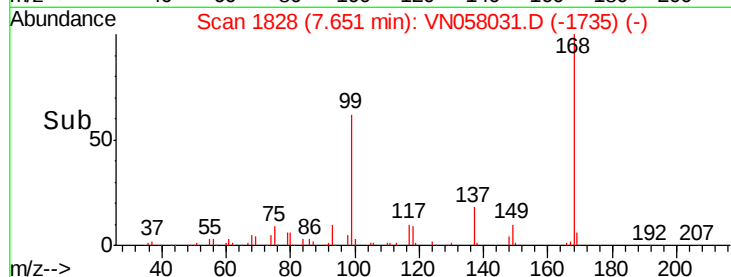
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN058031.D

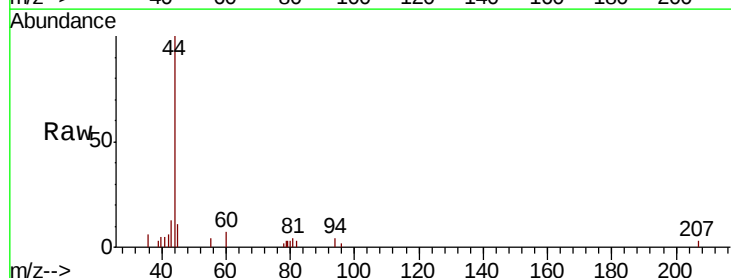
Acq: 13 Sep 2019 20:51

Tgt Ion: 94 Resp: 529

Ion Ratio Lower Upper

94 100

96 55.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.56

400

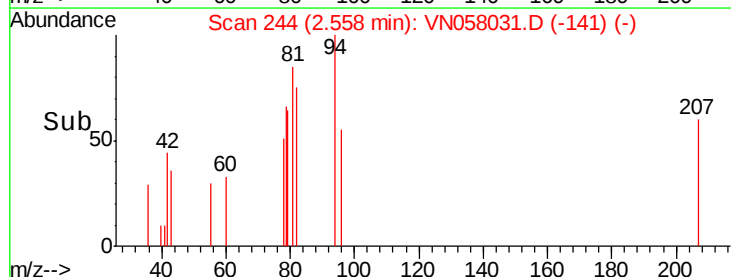
300

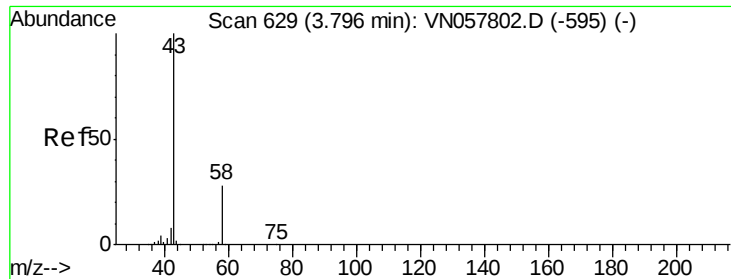
200

100

0

Time-->

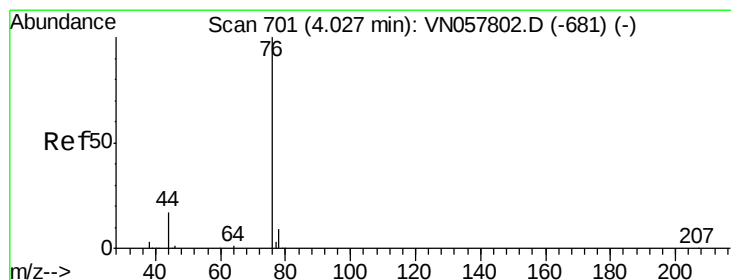
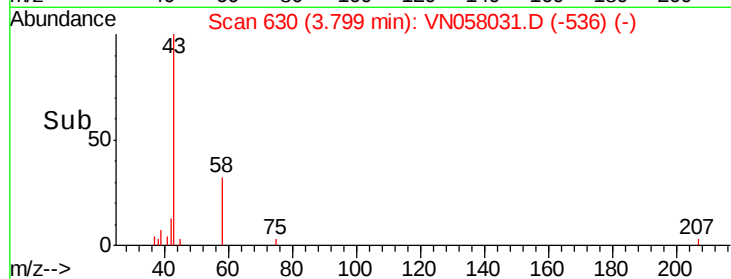
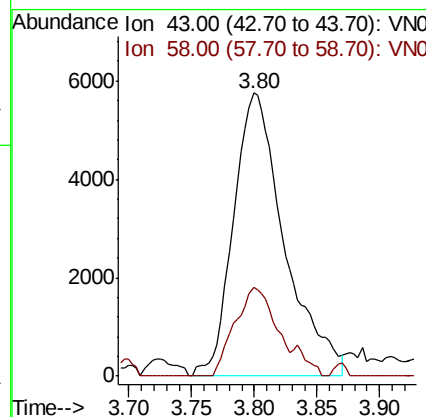
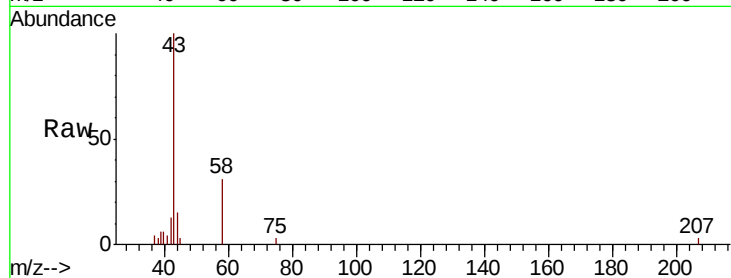




#16
Acetone
Concen: 8.683 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

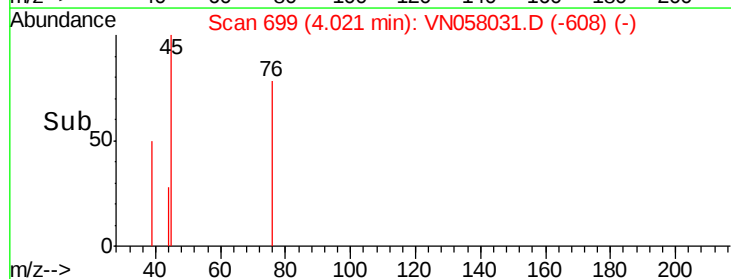
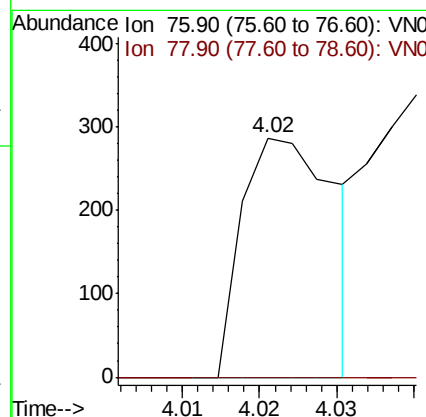
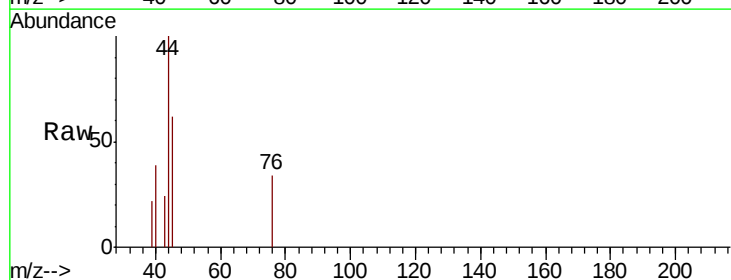
Instrument :
MSVOA_N
ClientSampled :
T3-4-(1.5)

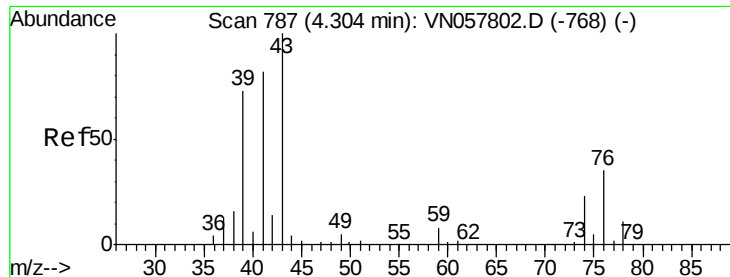
Tgt Ion: 43 Resp: 16245
Ion Ratio Lower Upper
43 100
58 31.3 22.2 33.2



#17
Carbon Disulfide
Concen: 0.210 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.01 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

Tgt Ion: 76 Resp: 241
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

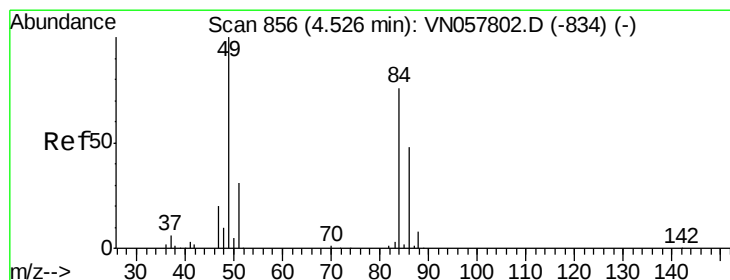
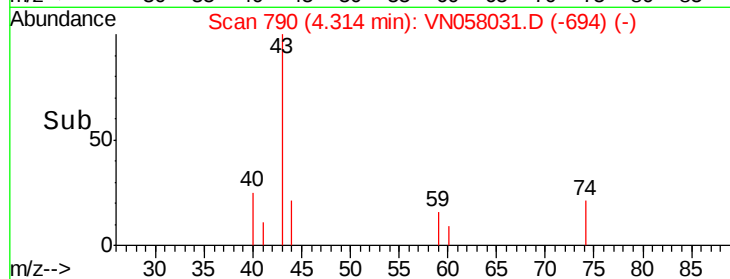
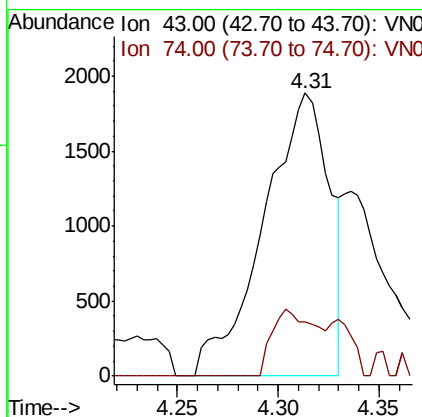
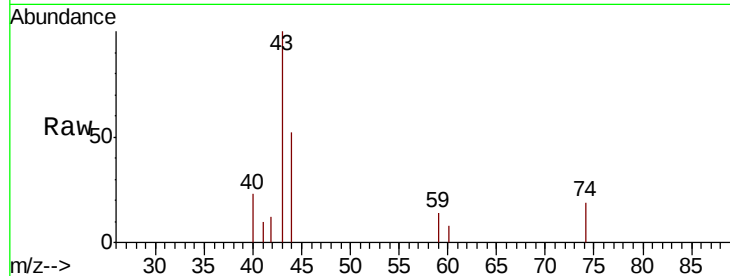




#18
Methyl Acetate
Concen: 0.853 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

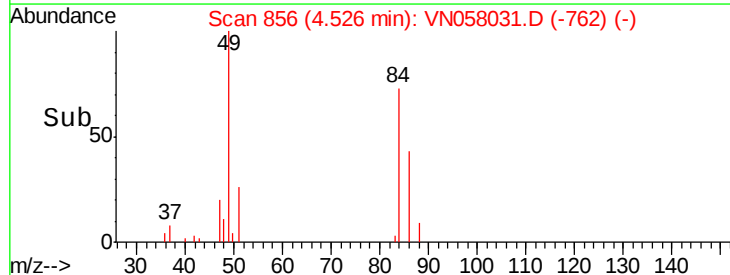
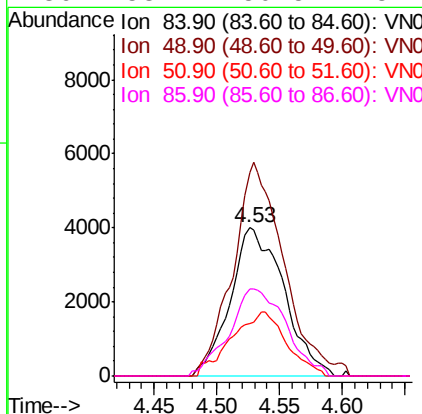
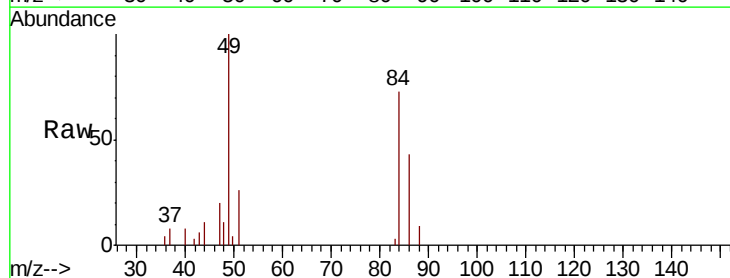
Instrument :
MSVOA_N
ClientSampleId :
T3-4-(1.5)

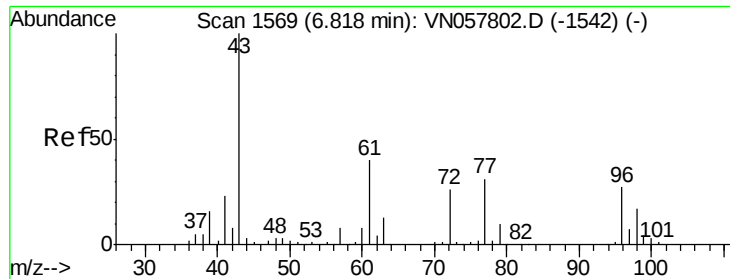
Tgt Ion: 43 Resp: 4256
Ion Ratio Lower Upper
43 100
74 15.7 17.9 26.9#



#20
Methylene Chloride
Concen: 2.153 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

Tgt Ion: 84 Resp: 11865
Ion Ratio Lower Upper
84 100
49 137.7 104.8 157.2
51 35.5 33.0 49.4
86 58.7 50.5 75.7

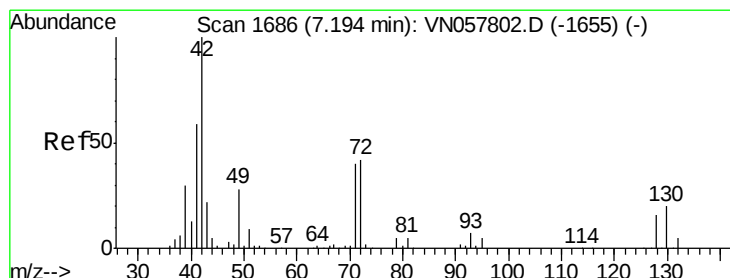
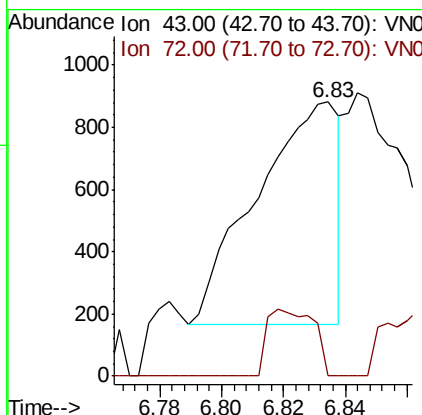
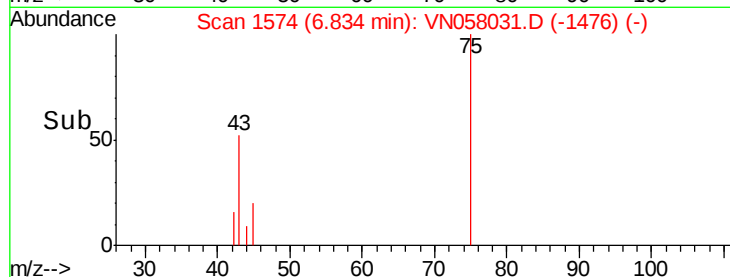
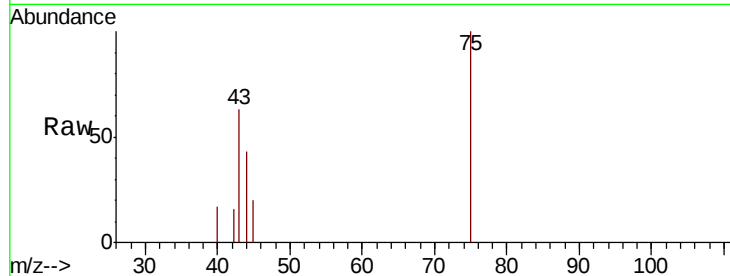




#25
2-Butanone
Concen: 0.486 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

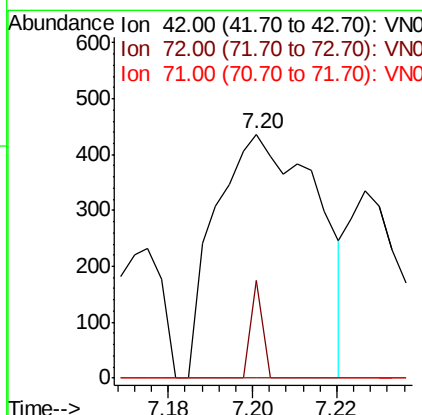
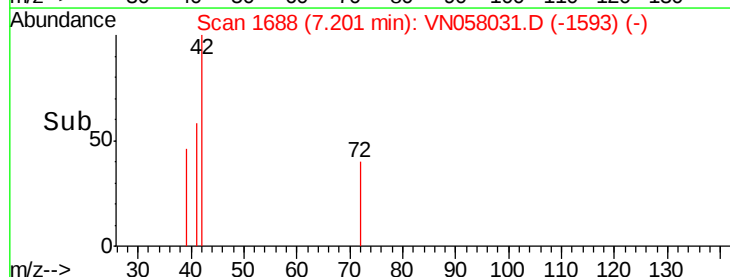
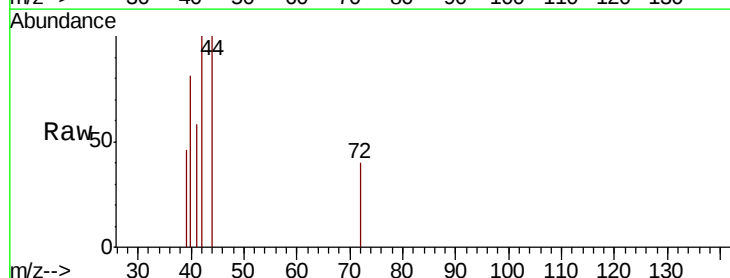
Instrument :
MSVOA_N
ClientSampleId :
T3-4-(1.5)

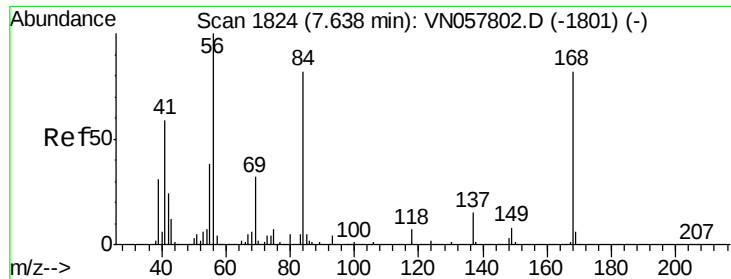
Tgt Ion: 43 Resp: 1315
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.439 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

Tgt Ion: 42 Resp: 733
Ion Ratio Lower Upper
42 100
72 4.6 33.7 50.5#
71 0.0 31.9 47.9#

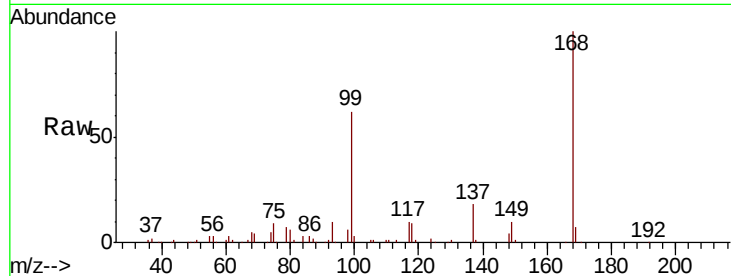




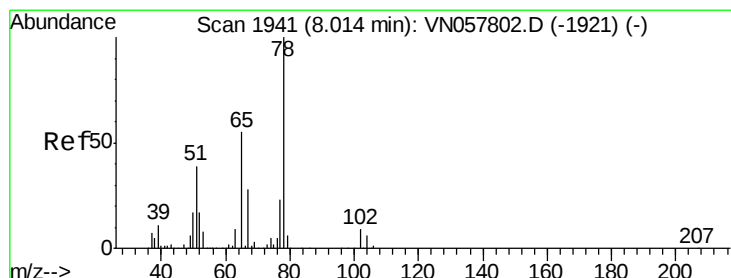
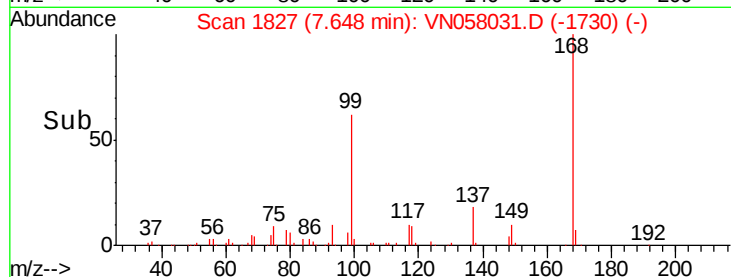
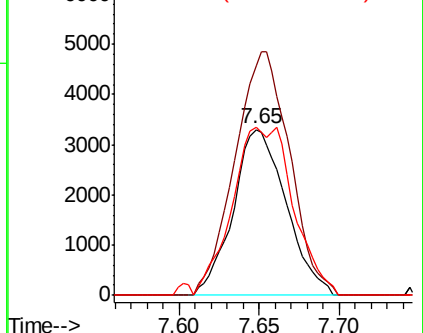
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

Instrument :
MSVOA_N
ClientSampled :
T3-4-(1.5)

Tgt Ion: 56 Resp: 7486
Ion Ratio Lower Upper
56 100
69 138.8 25.9 38.9#
84 101.5 65.6 98.4#

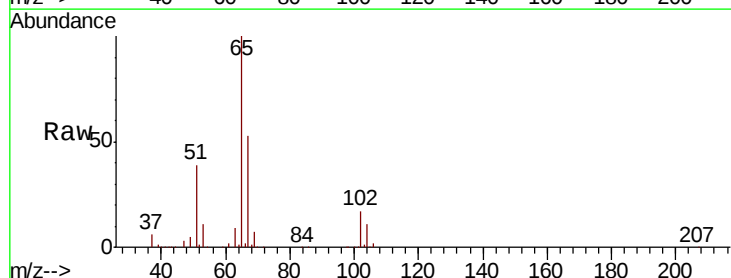


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

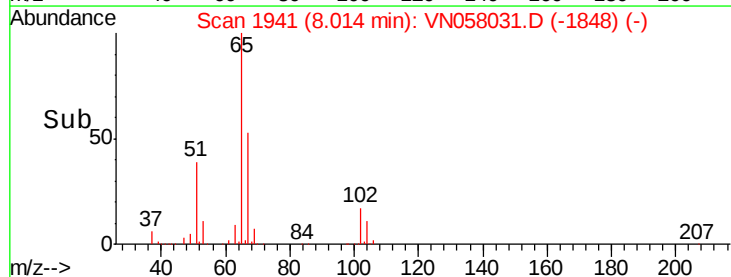
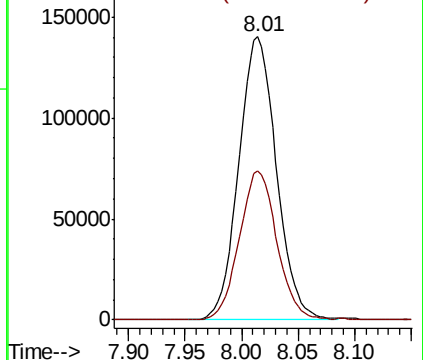


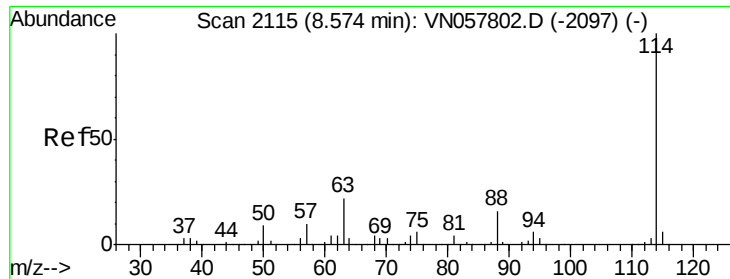
#33
1,2-Dichloroethane-d4
Concen: 56.980 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

Tgt Ion: 65 Resp: 325209
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

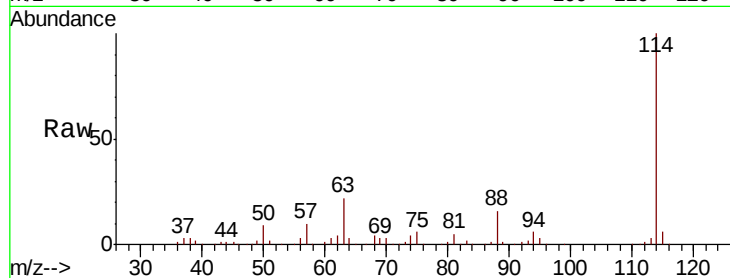




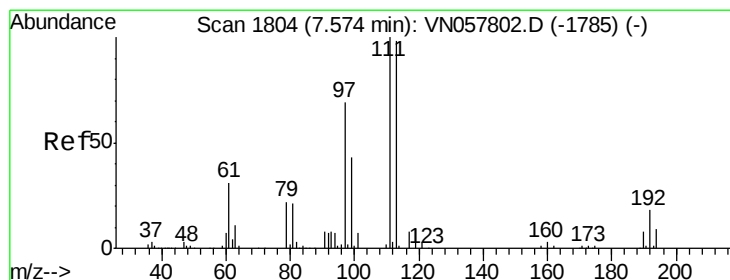
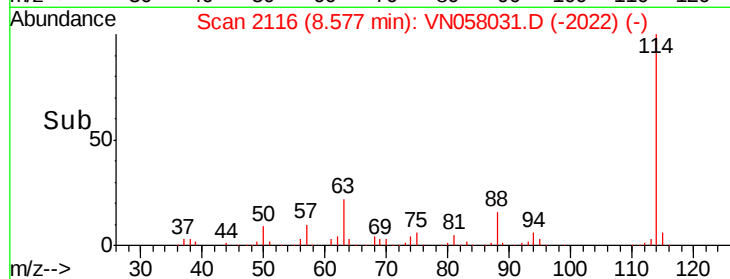
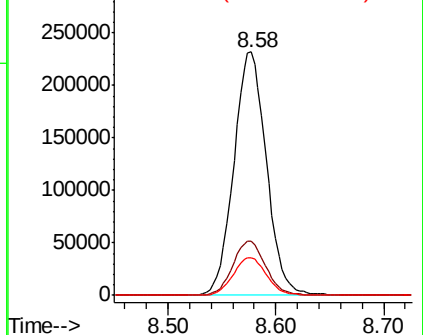
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058031.D
 Acq: 13 Sep 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-4-(1.5)

Tgt Ion:114 Resp: 488814
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 44.0
 88 15.5 0.0 31.4

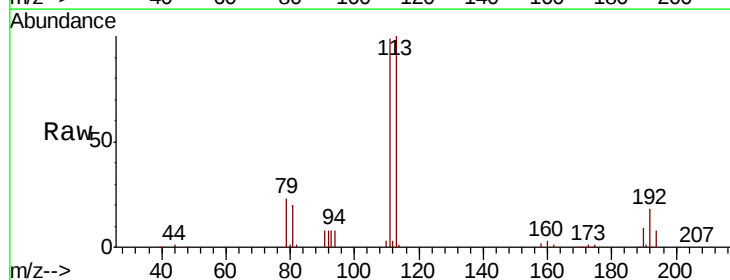


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

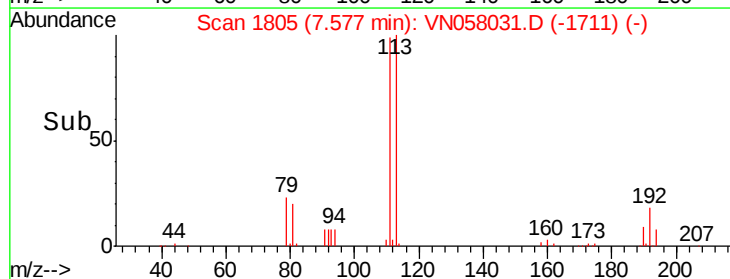
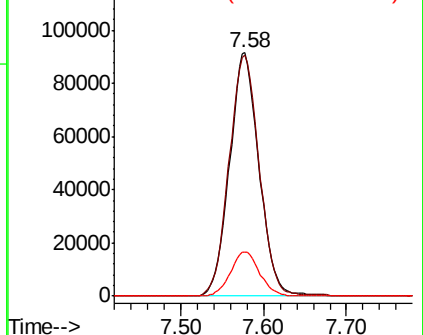


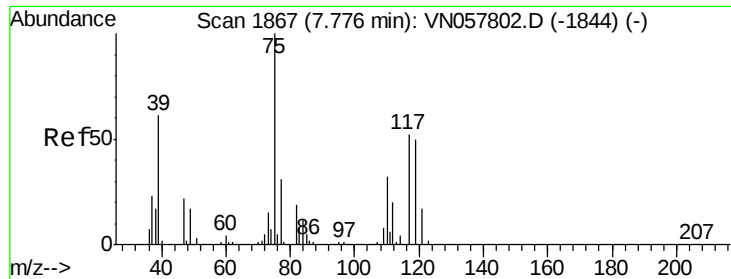
#35
 Dibromofluoromethane
 Concen: 50.194 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058031.D
 Acq: 13 Sep 2019 20:51

Tgt Ion:113 Resp: 226453
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.3 121.9
 192 18.0 14.6 22.0



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

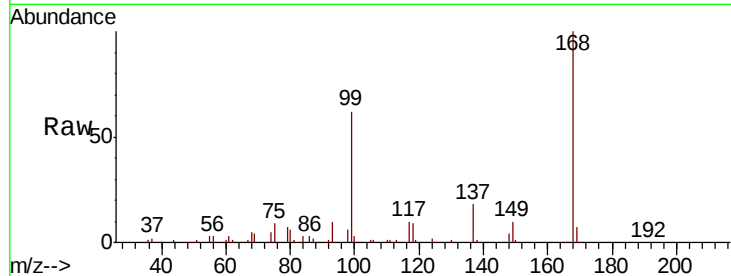




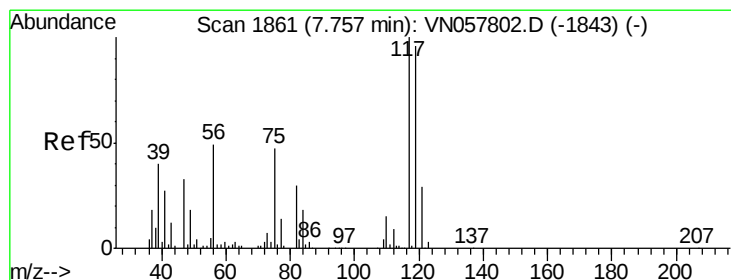
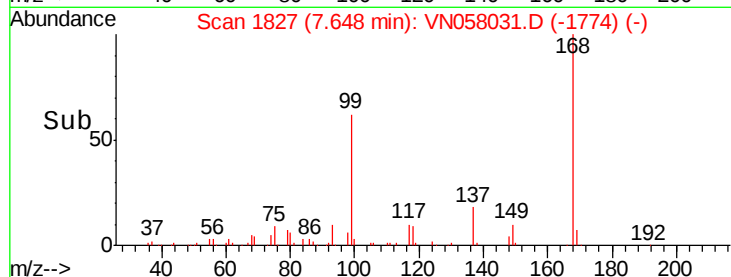
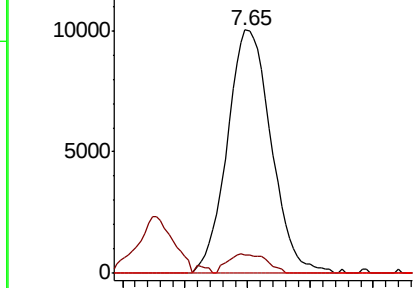
#36
 1,1-Dichloropropene
 Concen: 4.305 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058031.D
 Acq: 13 Sep 2019 20:51

Instrument :
 MSVOA_N
 ClientSampled :
 T3-4-(1.5)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.0	16.3	48.9#
77	0.0	25.0	37.4#

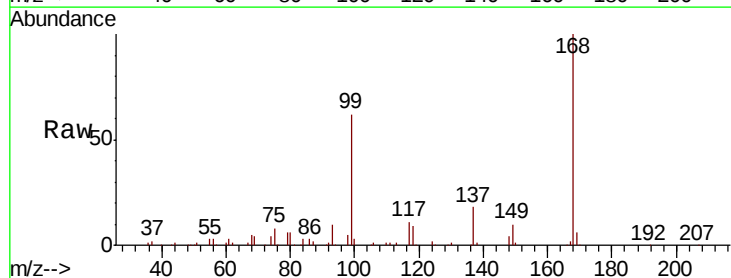


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

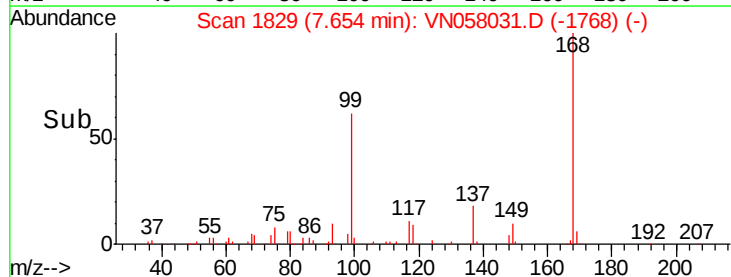
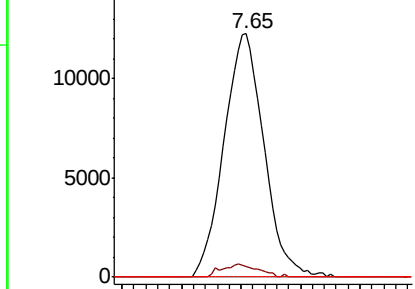


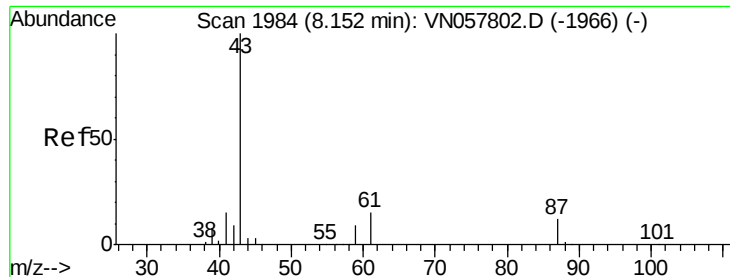
#38
 Carbon Tetrachloride
 Concen: 5.526 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058031.D
 Acq: 13 Sep 2019 20:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN058031.D (-1768) (-)
 Ion 118.80 (118.50 to 119.50): VN058031.D (-1768) (-)
 Ion 120.80 (120.50 to 121.50): VN058031.D (-1768) (-)





#43

Isopropyl Acetate

Concen: 8.002 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

T3-4-(1.5)

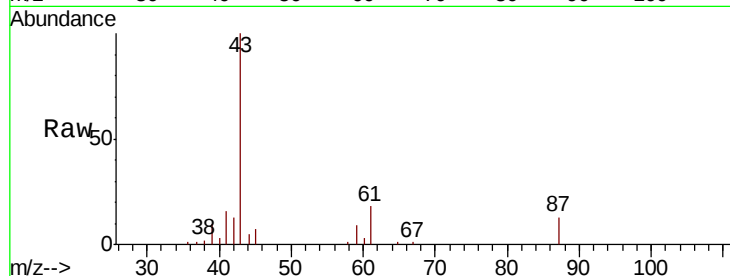
Tgt Ion: 43 Resp: 78813

Ion Ratio Lower Upper

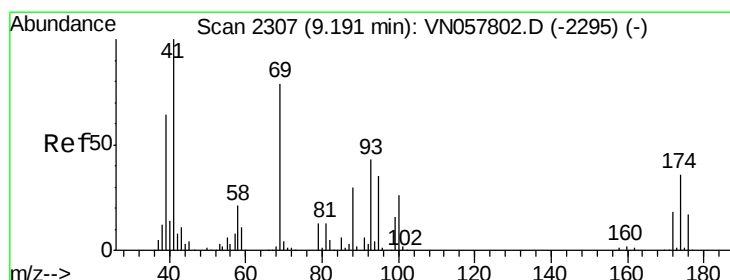
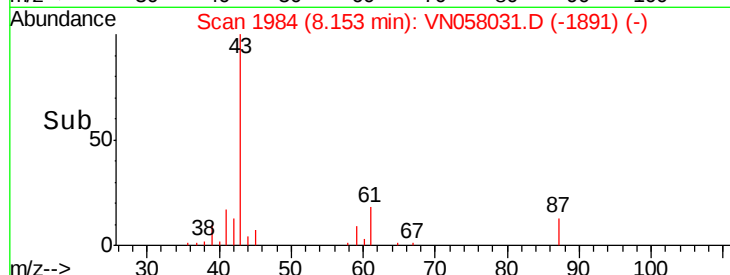
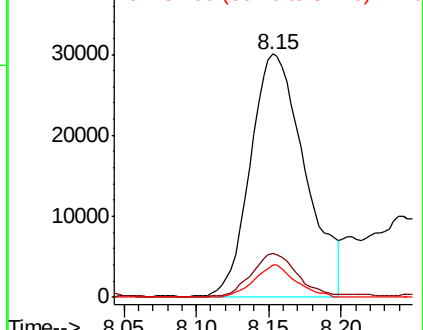
43 100

61 16.2 20.1 30.1#

87 10.1 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 0.778 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

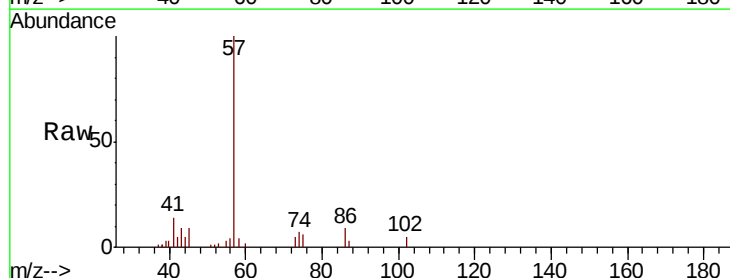
Tgt Ion: 41 Resp: 3889

Ion Ratio Lower Upper

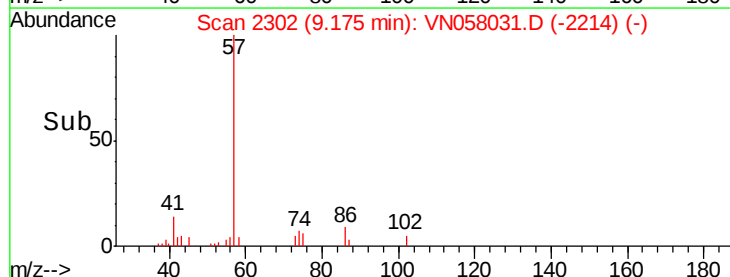
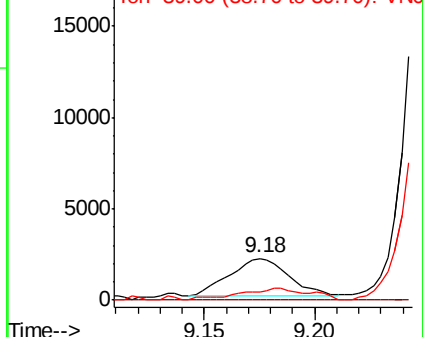
41 100

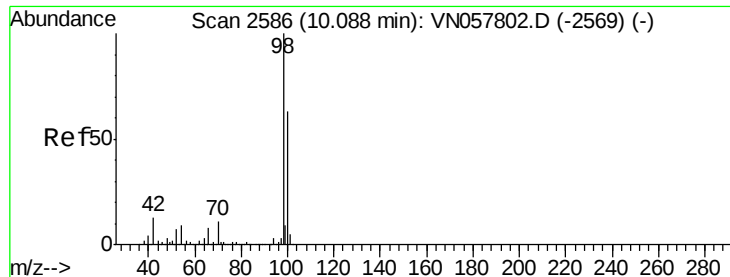
69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



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: 45.221 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

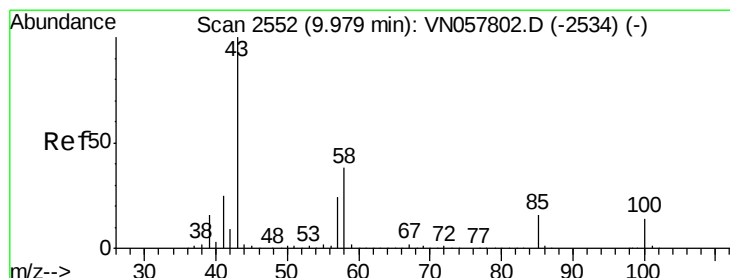
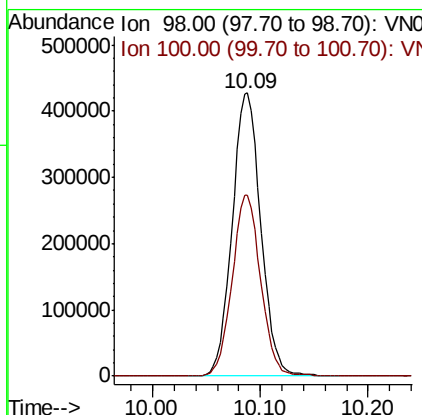
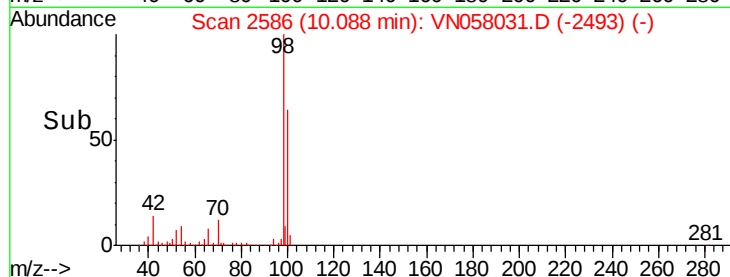
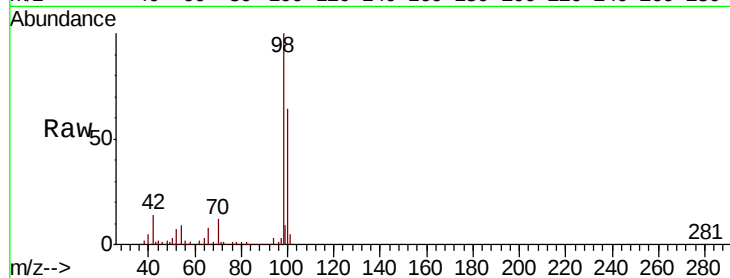
T3-4-(1.5)

Tgt Ion: 98 Resp: 792110

Ion Ratio Lower Upper

98 100

100 63.4 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.191 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058031.D

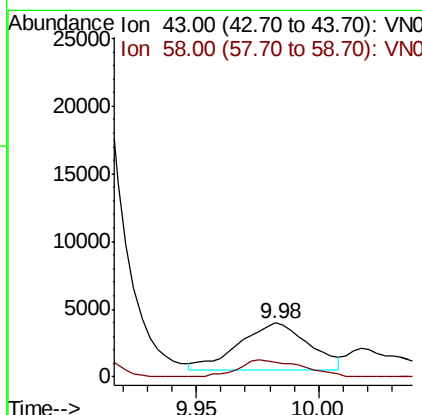
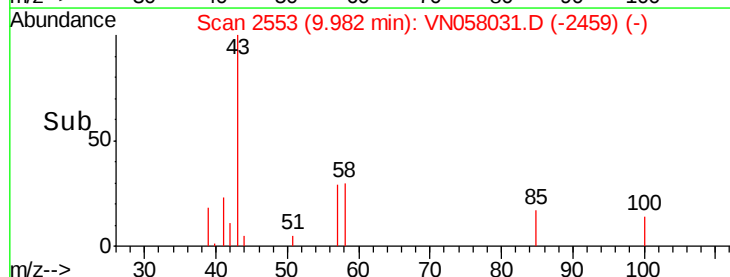
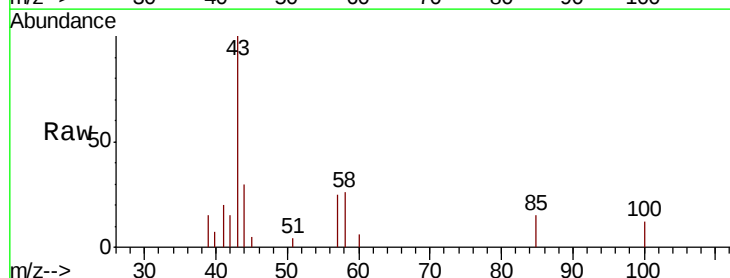
Acq: 13 Sep 2019 20:51

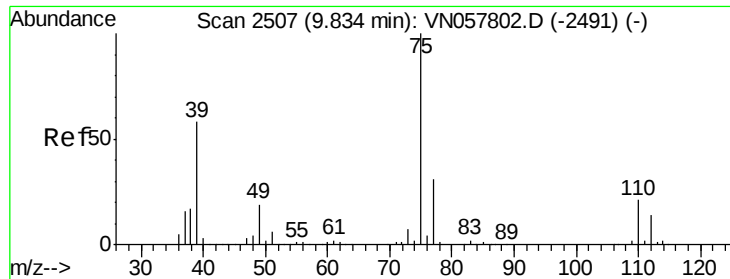
Tgt Ion: 43 Resp: 6940

Ion Ratio Lower Upper

43 100

58 32.1 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 4.398 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampled :

T3-4-(1.5)

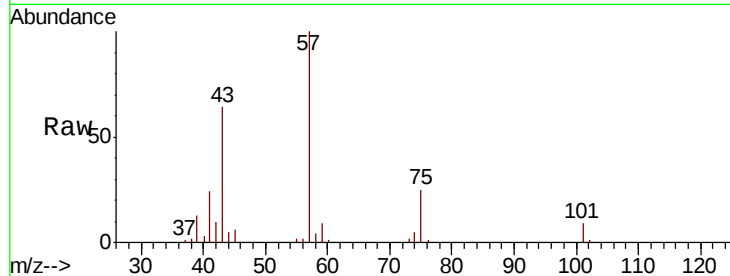
Tgt Ion: 75 Resp: 30643

Ion Ratio Lower Upper

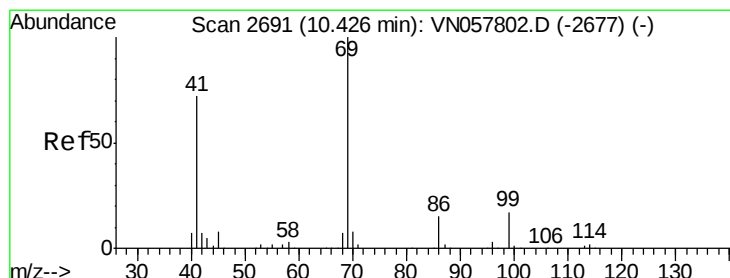
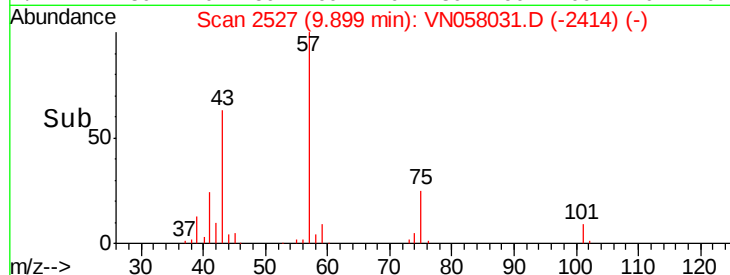
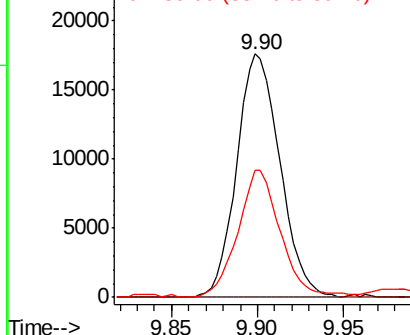
75 100

77 0.0 24.8 37.2#

39 52.0 46.2 69.4



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 0.219 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

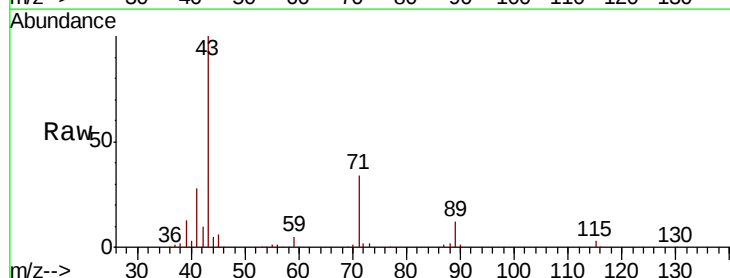
Tgt Ion: 69 Resp: 1500

Ion Ratio Lower Upper

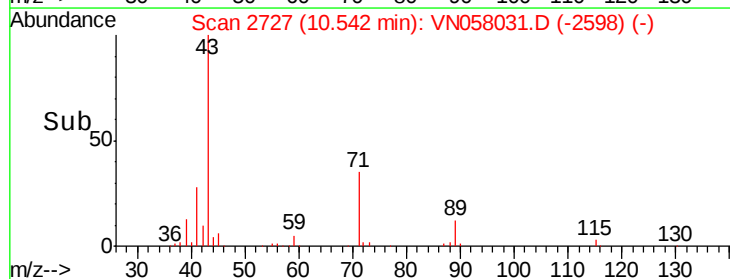
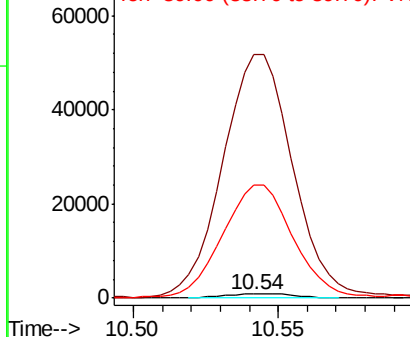
69 100

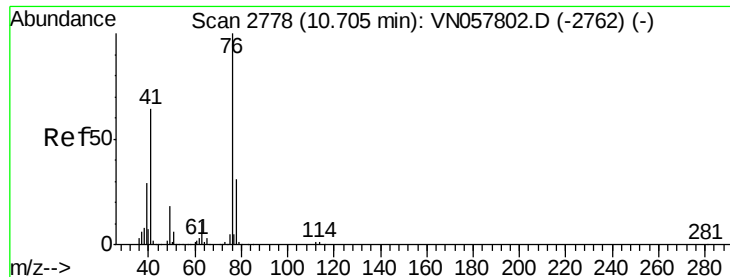
41 5810.3 56.7 85.1#

39 2734.9 36.3 54.5#



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





#57

1,3-Dichloropropane

Concen: 0.545 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

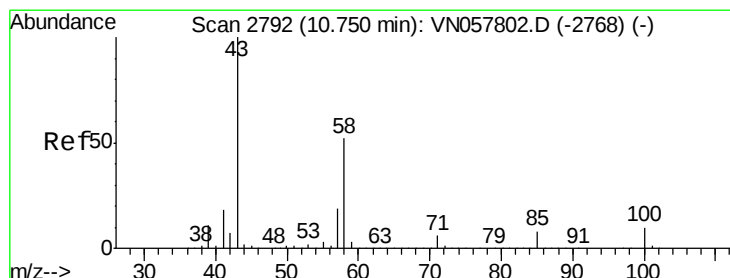
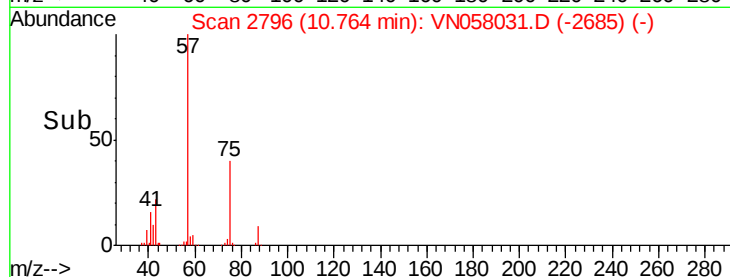
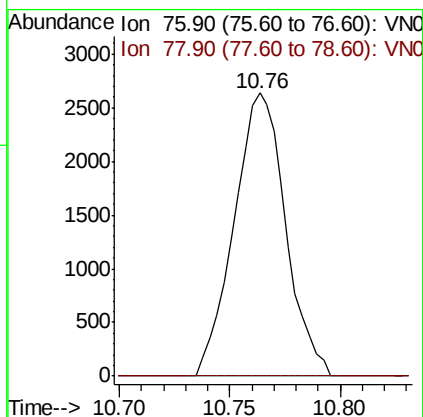
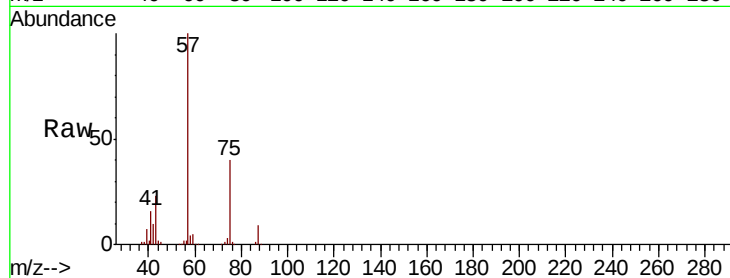
T3-4-(1.5)

Tgt Ion: 76 Resp: 4273

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 14.293 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058031.D

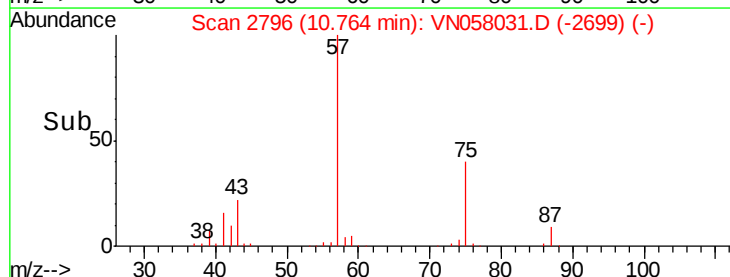
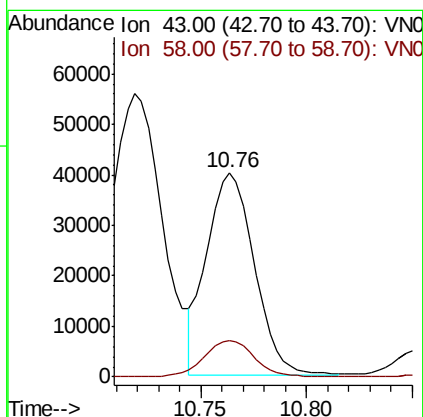
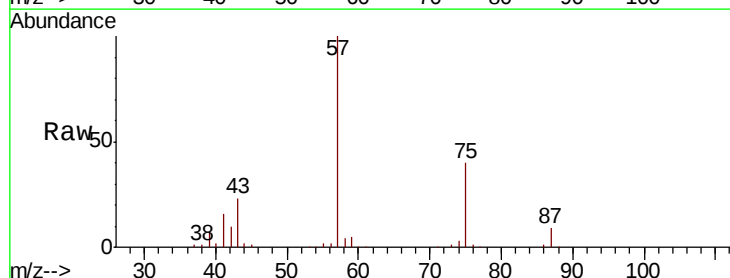
Acq: 13 Sep 2019 20:51

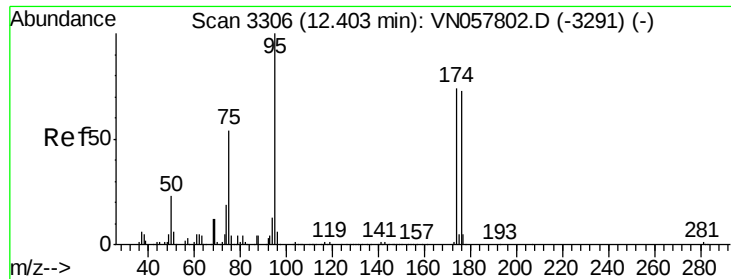
Tgt Ion: 43 Resp: 62444

Ion Ratio Lower Upper

43 100

58 19.1 25.6 76.8#

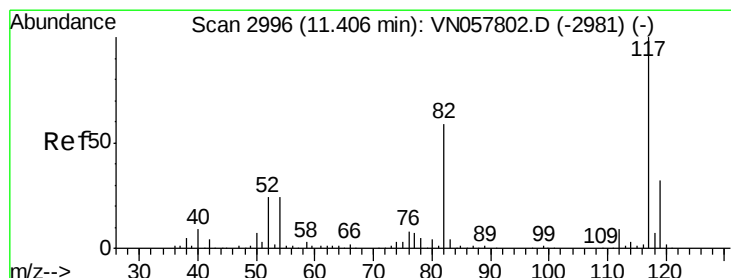
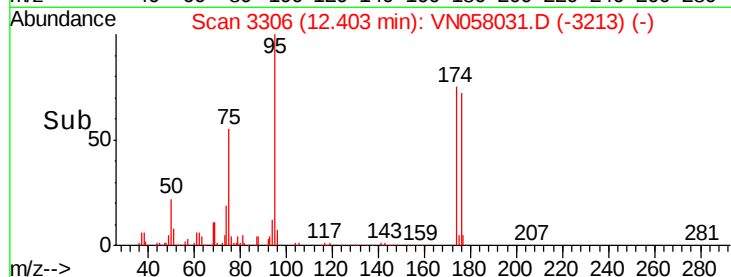
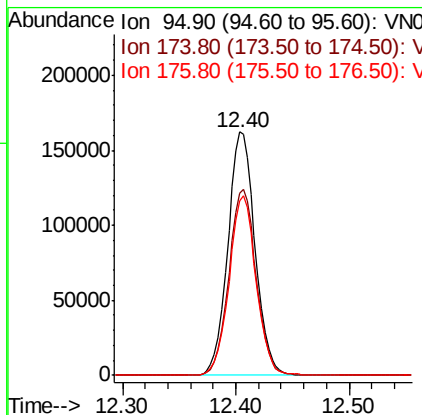
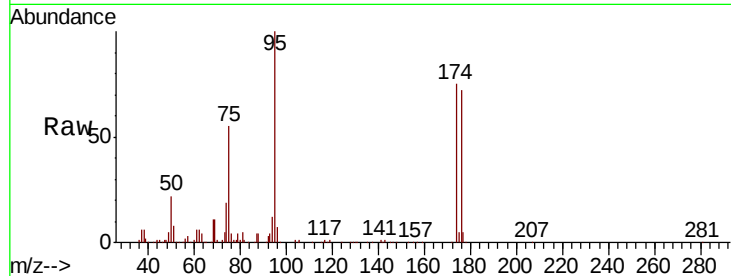




#62
4-Bromofluorobenzene
Concen: 40.539 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

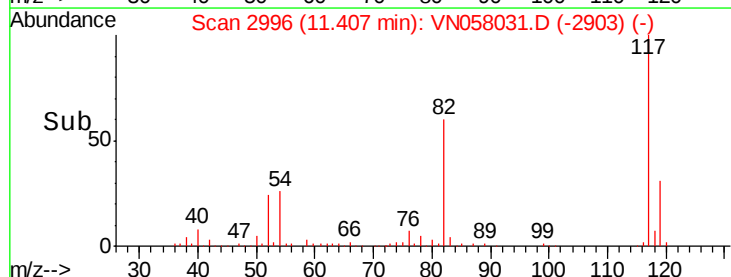
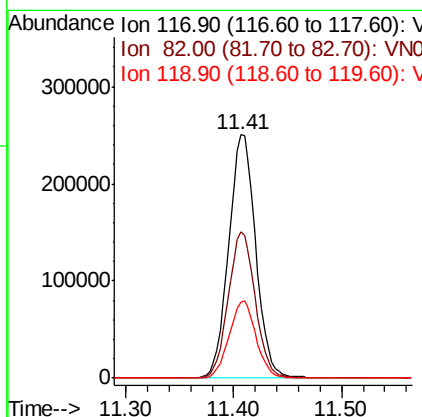
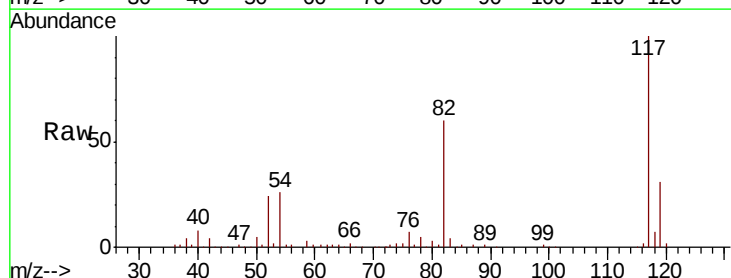
Instrument :
MSVOA_N
ClientSampleId :
T3-4-(1.5)

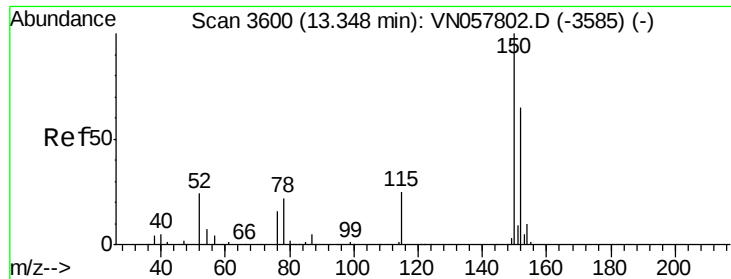
Tgt Ion: 95 Resp: 270609
Ion Ratio Lower Upper
95 100
174 76.6 0.0 150.2
176 73.4 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058031.D
Acq: 13 Sep 2019 20:51

Tgt Ion: 117 Resp: 438288
Ion Ratio Lower Upper
117 100
82 59.9 47.2 70.8
119 31.1 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

T3-4-(1.5)

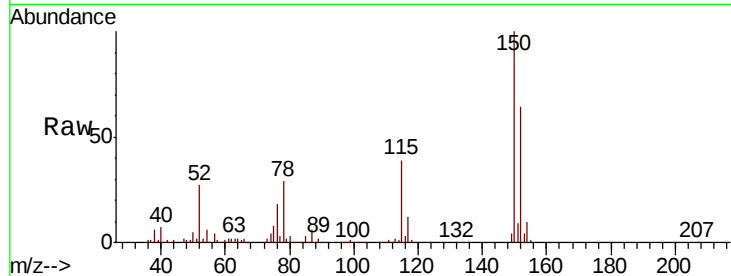
Tgt Ion:152 Resp: 218322

Ion Ratio Lower Upper

152 100

115 60.9 30.3 91.0

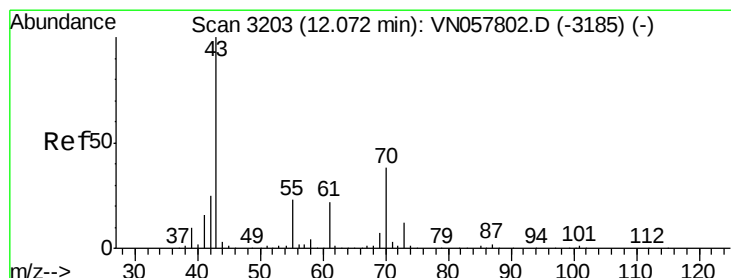
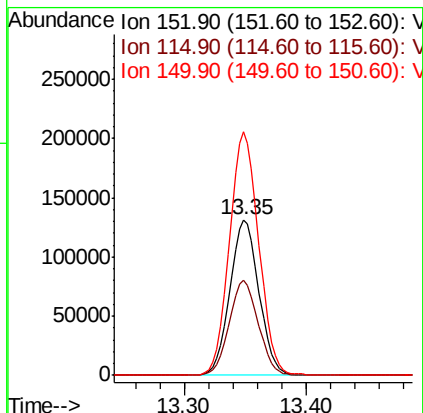
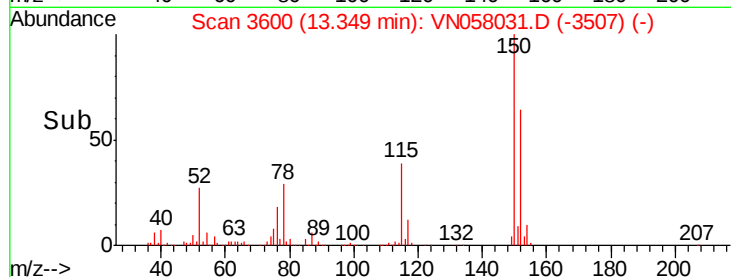
150 157.4 0.0 352.4



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



#74

N-ethyl acetate

Concen: 0.256 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Tgt Ion: 43 Resp: 1890

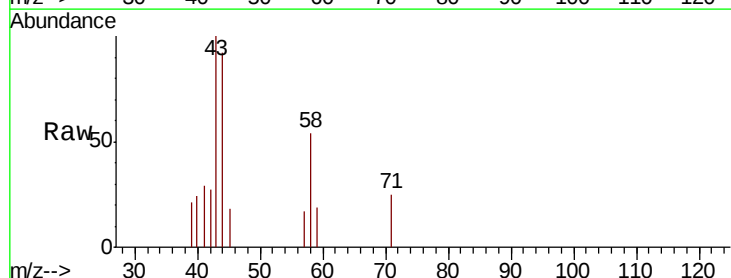
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.8 18.6 27.8#

61 0.0 17.4 26.2#

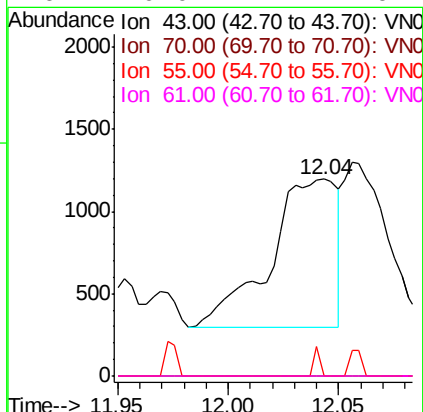
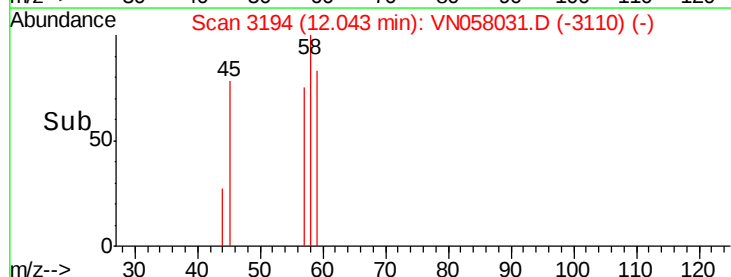


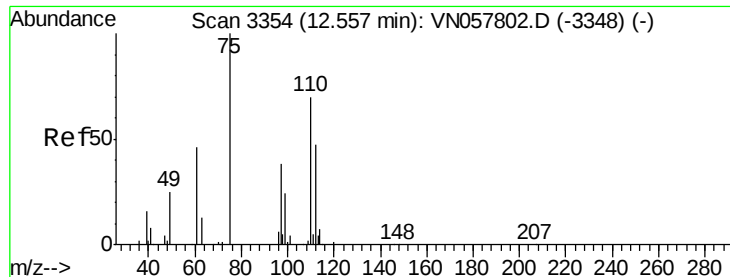
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.104 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

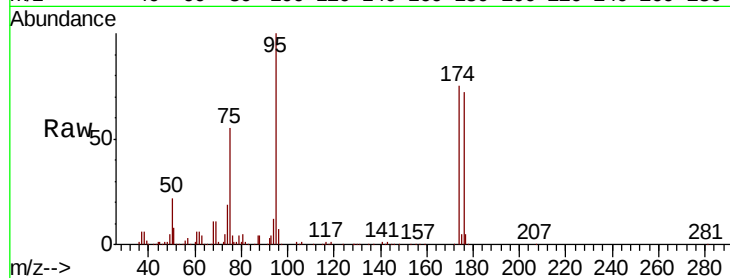
T3-4-(1.5)

Tgt Ion: 75 Resp: 148678

Ion Ratio Lower Upper

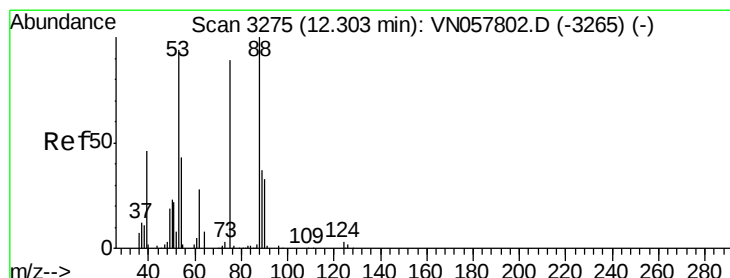
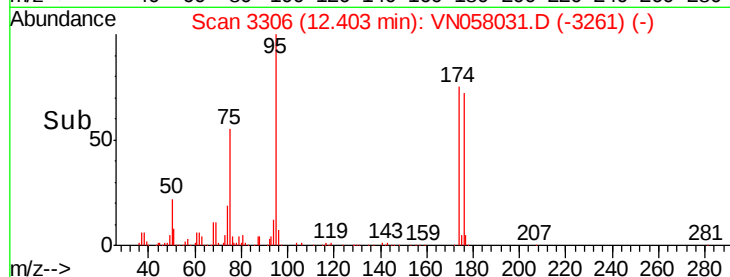
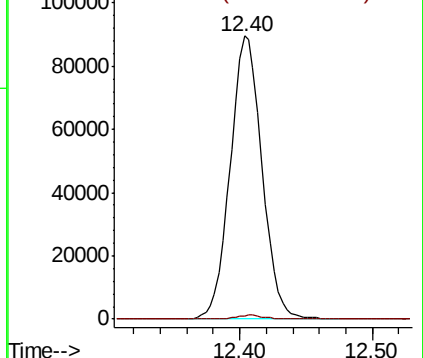
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 105.936 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

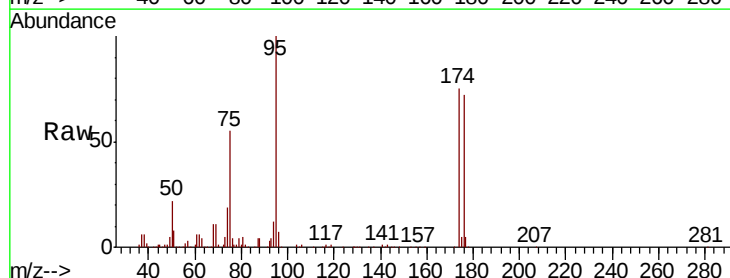
Tgt Ion: 75 Resp: 148678

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

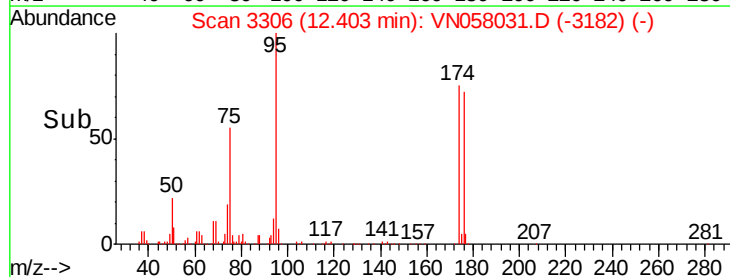
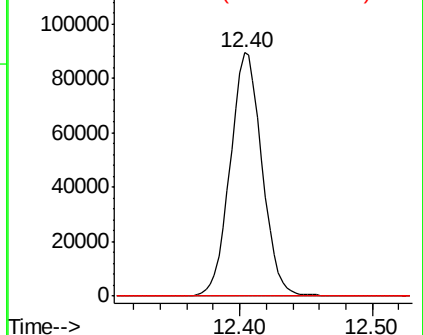
89 0.1 35.3 52.9#

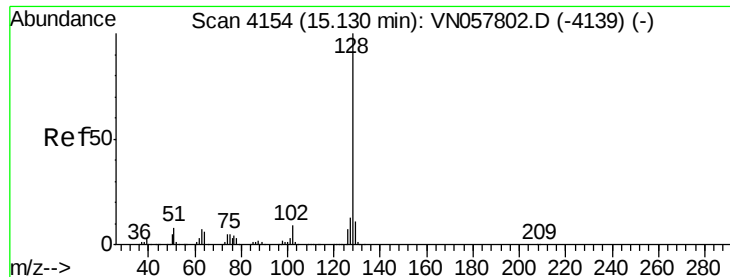


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

T3-4-(1.5)

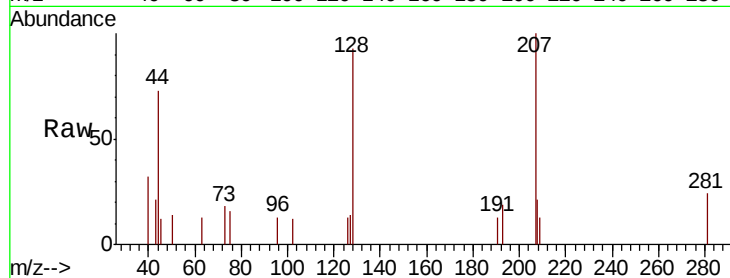
Tgt Ion:128 Resp: 1975

Ion Ratio Lower Upper

128 100

127 3.5 10.3 15.5#

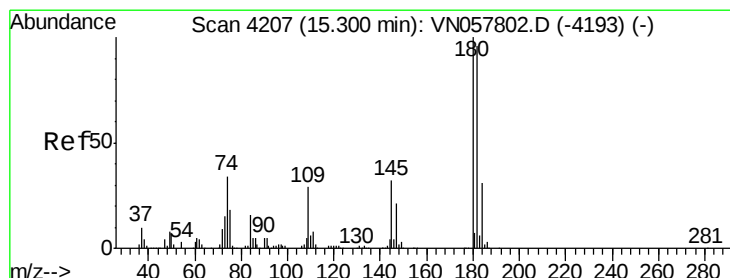
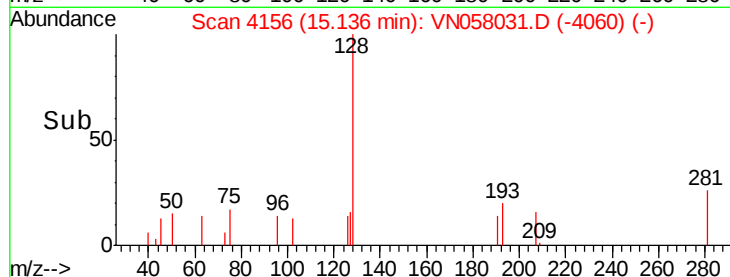
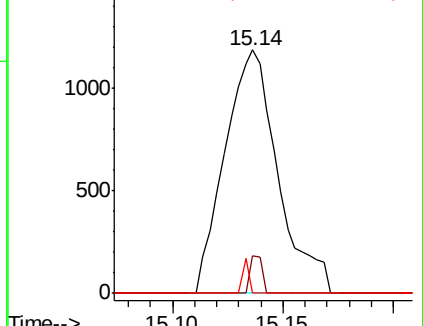
129 1.6 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.102 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058031.D

Acq: 13 Sep 2019 20:51

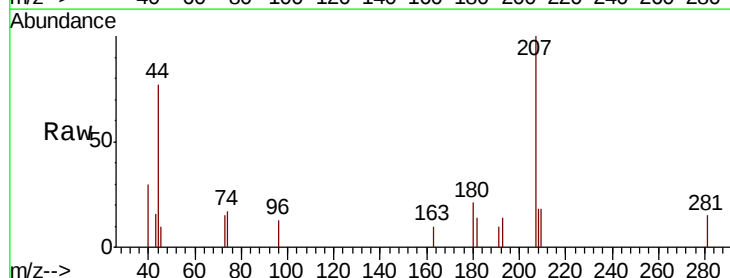
Tgt Ion:180 Resp: 469

Ion Ratio Lower Upper

180 100

182 40.1 48.3 144.8#

145 0.0 16.3 48.8#



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

