

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090119\
 Data File : VN057623.D
 Acq On : 31 Aug 2019 19:06
 Operator : JC/SP
 Sample : K4517-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 31 23:47:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	316458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	546770	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	141897	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	261875	36.63	ug/l	0.00
Spiked Amount			Recovery	=	73.26%	
35) Dibromofluoromethane	7.58	113	166323	34.83	ug/l	0.00
Spiked Amount			Recovery	=	69.66%	
50) Toluene-d8	10.08	98	692610	37.78	ug/l	0.00
Spiked Amount			Recovery	=	75.56%	
62) 4-Bromofluorobenzene	12.40	95	219013	31.42	ug/l	0.00
Spiked Amount			Recovery	=	62.84%	

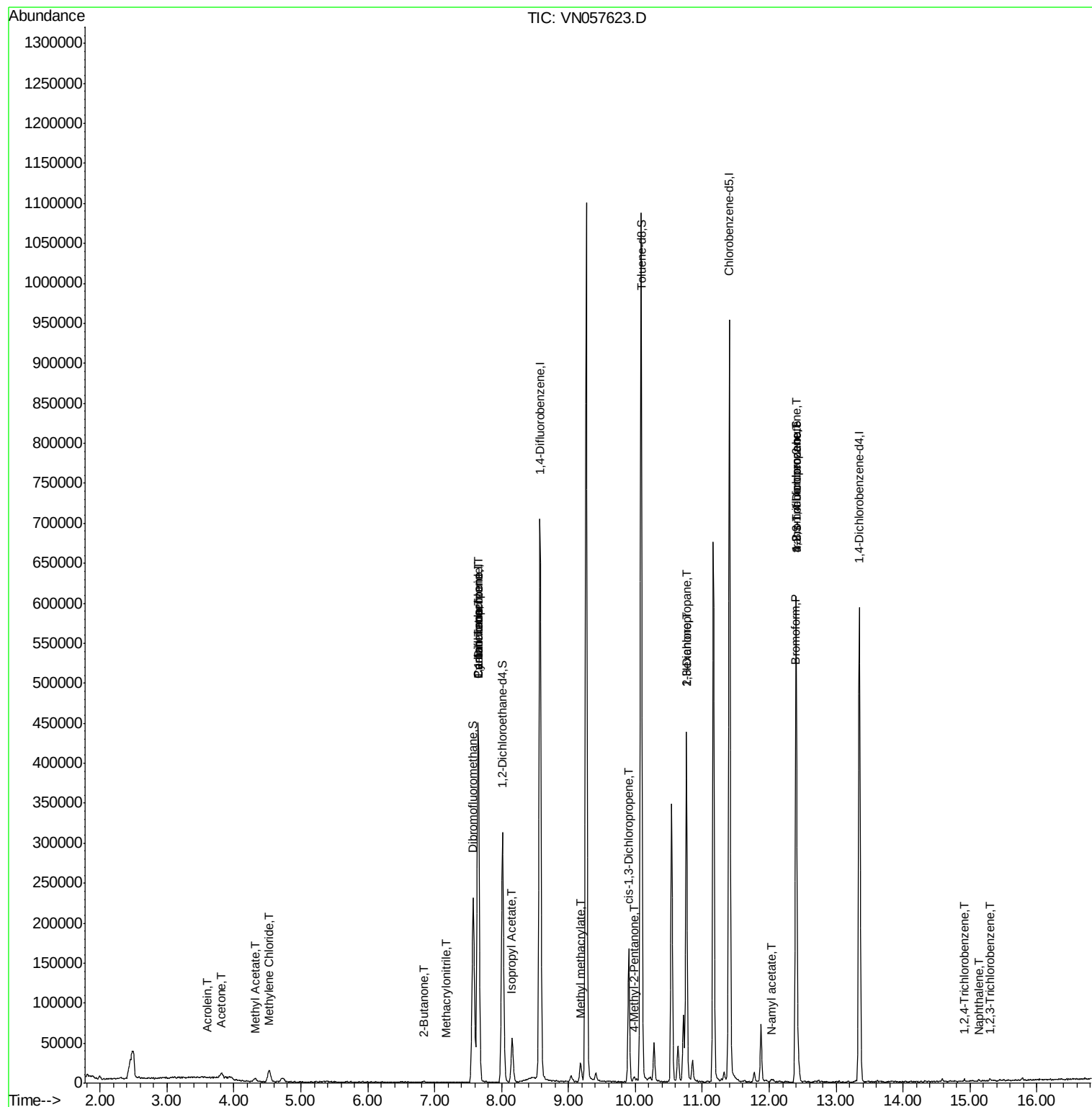
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	104	0.349	ug/l #	1
16) Acetone	3.81	43	5360	2.675	ug/l	100
18) Methyl Acetate	4.31	43	7905	1.149	ug/l	96
20) Methylene Chloride	4.52	84	9582	1.932	ug/l #	93
25) 2-Butanone	6.84	43	982	0.294	ug/l #	53
31) Cyclohexane	7.65	56	10521	1.111	ug/l #	23
36) 1,1-Dichloropropene	7.65	75	32547	4.490	ug/l #	51
38) Carbon Tetrachloride	7.65	117	34983	5.391	ug/l #	14
41) Methacrylonitrile	7.17	41	91	2.305	ug/l #	34
43) Isopropyl Acetate	8.16	43	67353	5.421	ug/l	98
48) Methyl methacrylate	9.18	41	4745	0.748	ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	6133	0.861	ug/l #	82
54) cis-1,3-Dichloropropene	9.90	75	25282	4.498	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	3858	0.444	ug/l #	43
59) 2-Hexanone	10.76	43	70123	13.411	ug/l #	56
71) Bromoform	12.38	173	208	6.278	ug/l #	28
74) N-amyl acetate	12.04	43	2677	0.396	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	128156	34.335	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128156	117.694	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	910	8.665	ug/l	89
95) Naphthalene	15.13	128	1349	7.092	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.29	180	899	8.133	ug/l #	90

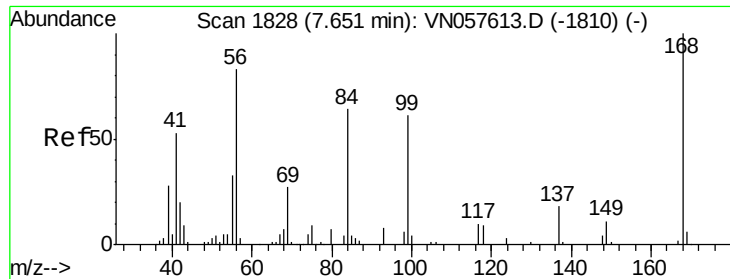
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 31 15:54:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

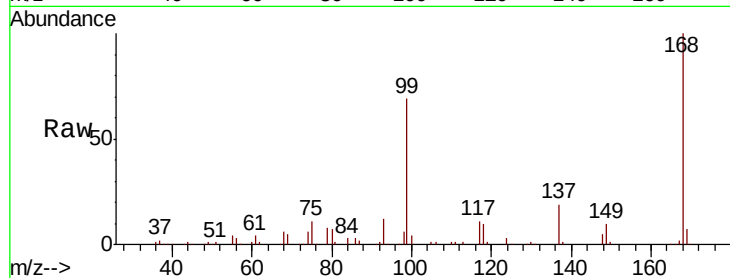
ClientSampleId :

Tot Ion:168 Resp: 316458

Ion Ratio Lower Upper

168 100

99 69.5 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN057613.D (-1810) (-)

Ion 98.90 (98.60 to 99.60): VN057613.D (-1810) (-)

7.65

150000

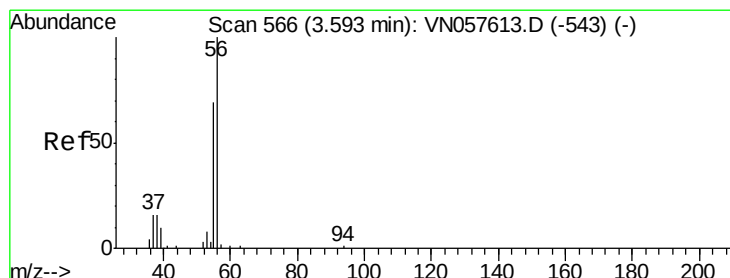
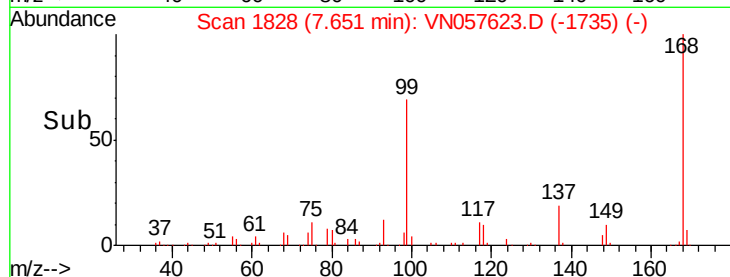
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#13

Acrolein

Concen: 0.349 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN057623.D

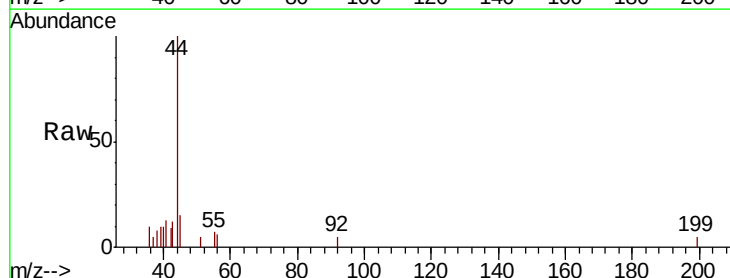
Acq: 31 Aug 2019 19:06

Tgt Ion: 56 Resp: 104

Ion Ratio Lower Upper

56 100

55 373.1 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN057613.D (-543) (-)

Ion 55.00 (54.70 to 55.70): VN057613.D (-543) (-)

400

300

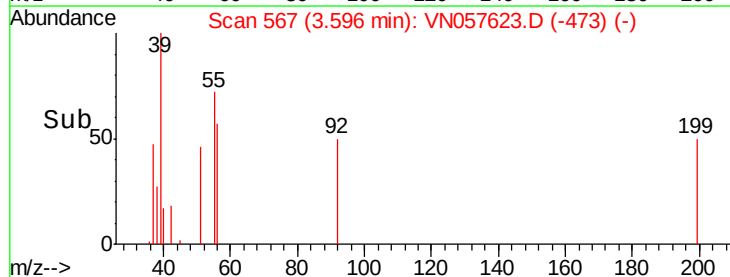
200

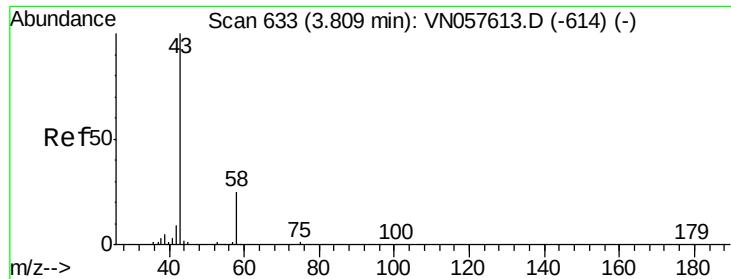
100

0

3.59 3.60 3.61

Time-->

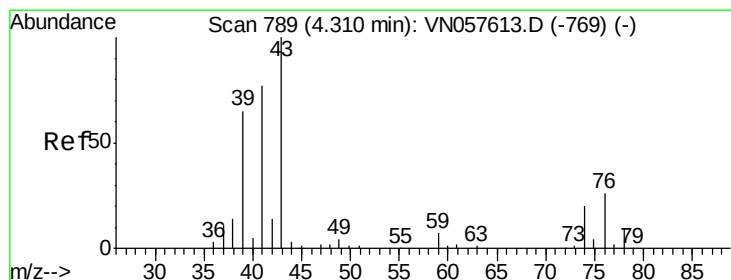
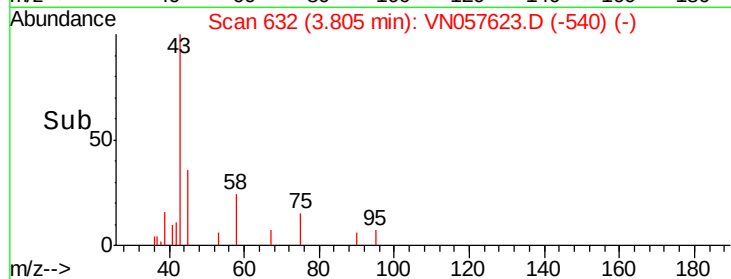
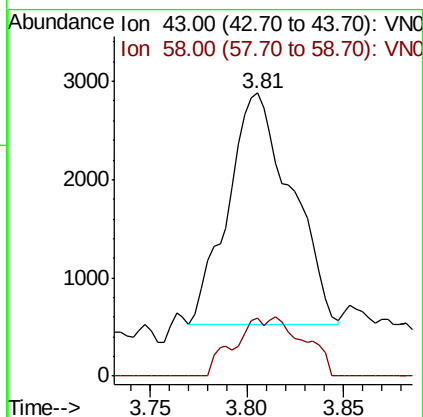
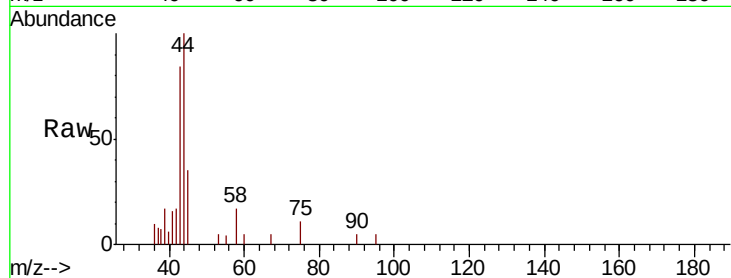




#16
Acetone
Concen: 2.675 ug/l
RT: 3.81 min Scan# 632
Delta R.T. -0.00 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

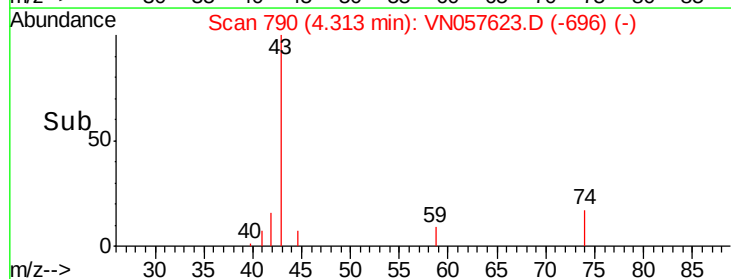
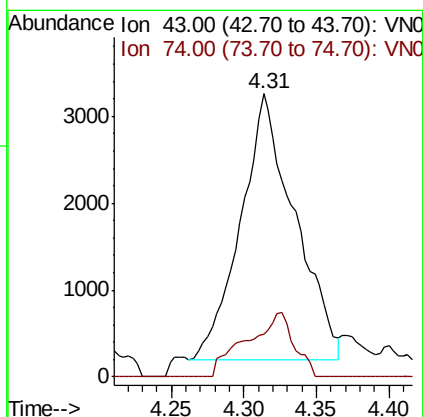
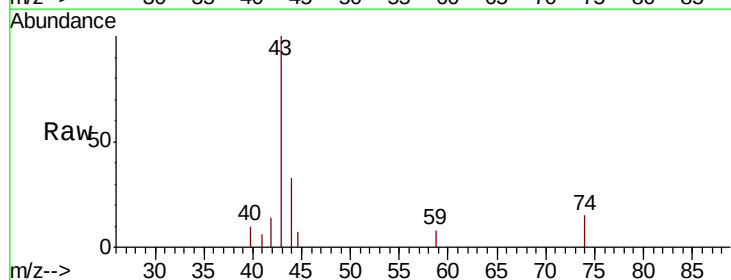
Instrument :
MSVOA_N
ClientSampled :

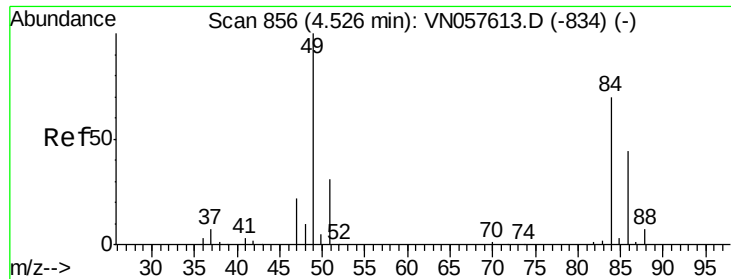
Tot Ion: 43 Resp: 5360
Ion Ratio Lower Upper
43 100
58 24.9 20.0 30.0



#18
Methyl Acetate
Concen: 1.149 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Tgt Ion: 43 Resp: 7905
Ion Ratio Lower Upper
43 100
74 21.3 15.7 23.5

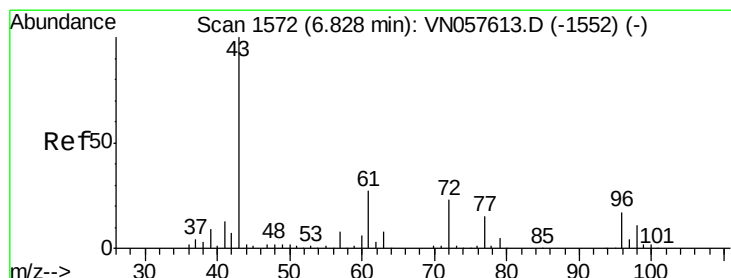
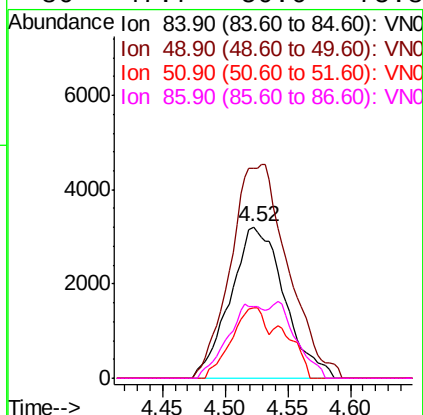
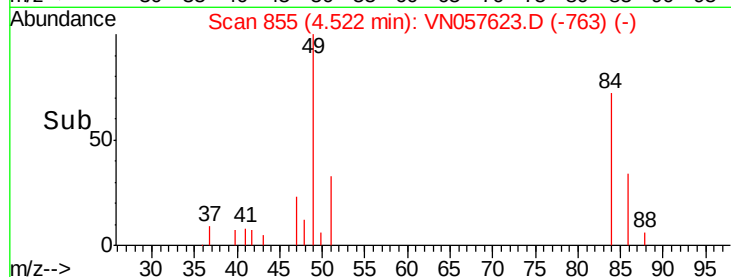
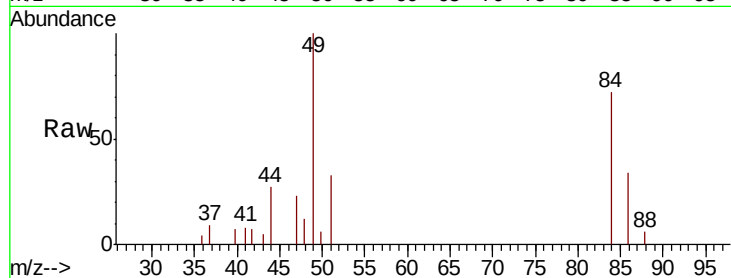




#20
Methvlene Chloride
Concen: 1.932 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

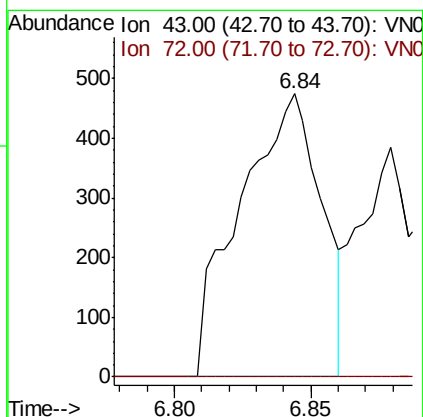
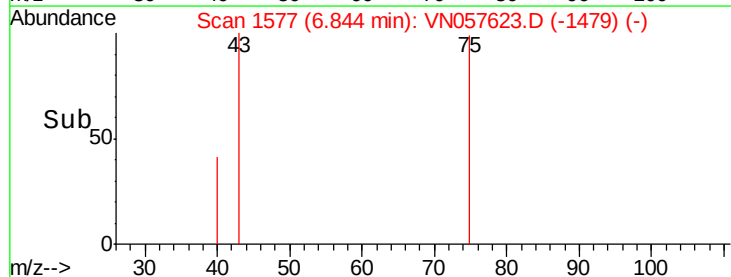
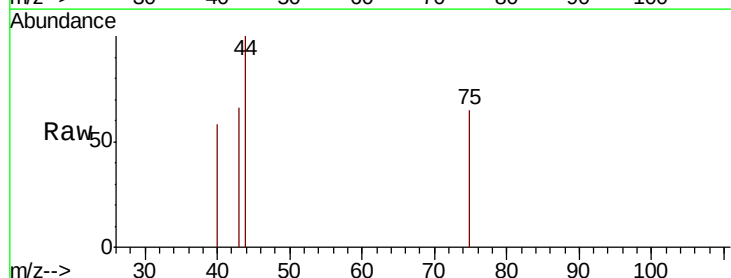
Instrument :
MSVOA_N
ClientSampleId :

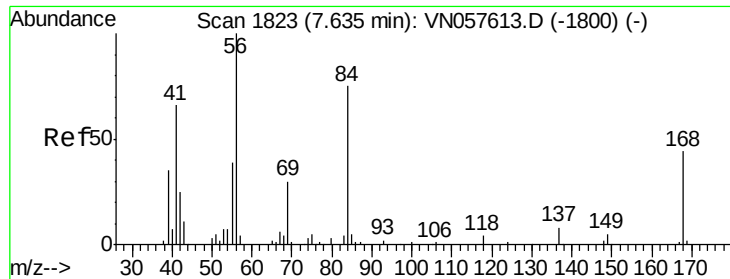
Tot Ion: 84 Resp: 9582
Ion Ratio Lower Upper
84 100
49 139.1 113.8 170.6
51 46.5 35.0 52.6
86 47.7 50.6 75.8#



#25
2-Butanone
Concen: 0.294 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.02 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Tgt Ion: 43 Resp: 982
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#

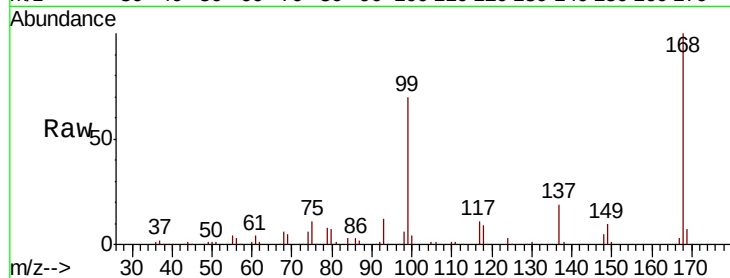




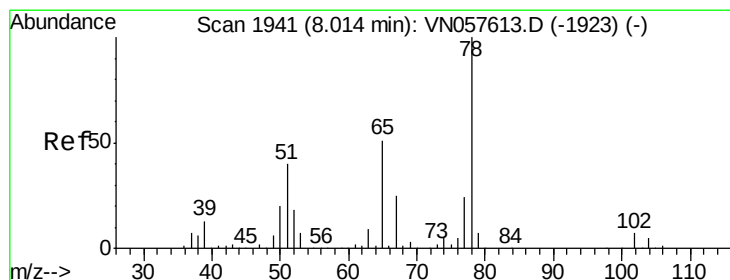
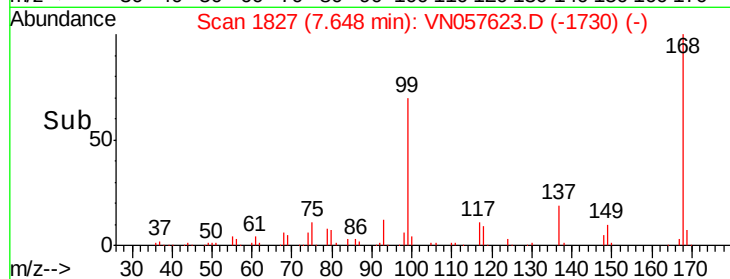
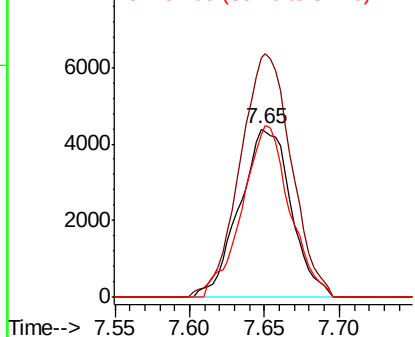
#31
Cyclohexane
Concen: 1.111 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 10521
Ion Ratio Lower Upper
56 100
69 142.2 24.4 36.6#
84 96.7 59.9 89.9#

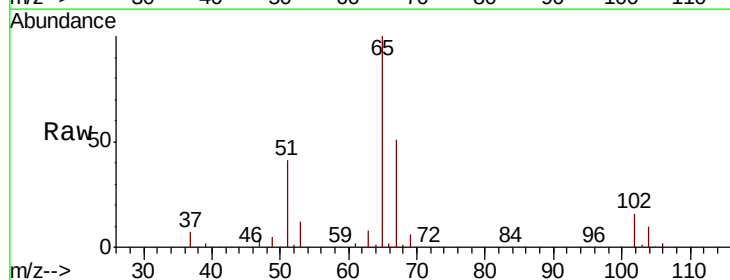


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

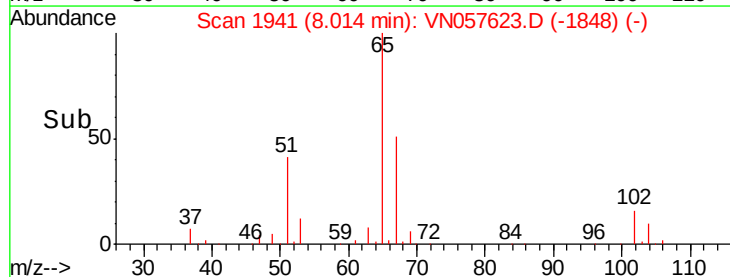
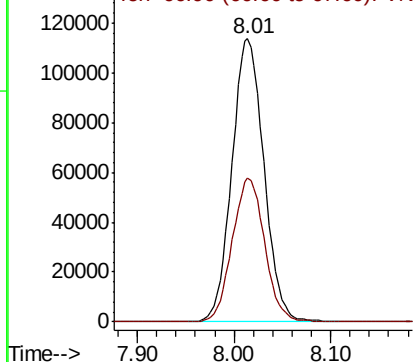


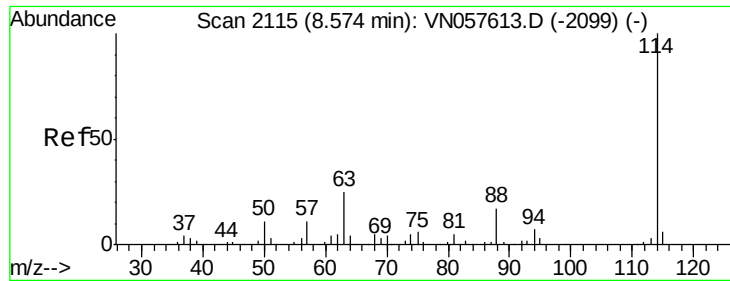
#33
1,2-Dichloroethane-d4
Concen: 36.632 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Tgt Ion: 65 Resp: 261875
Ion Ratio Lower Upper
65 100
67 51.3 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

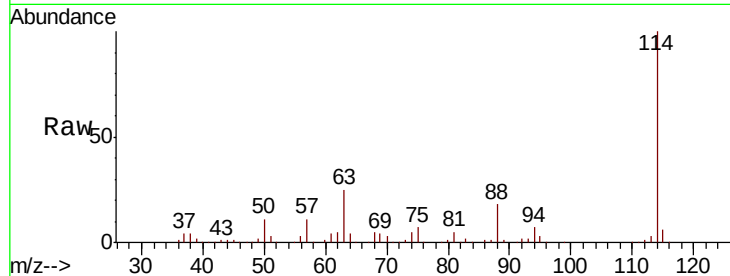




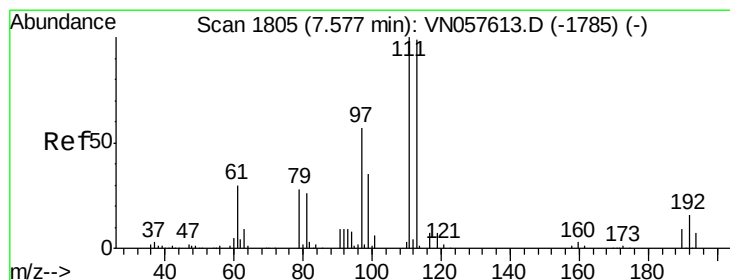
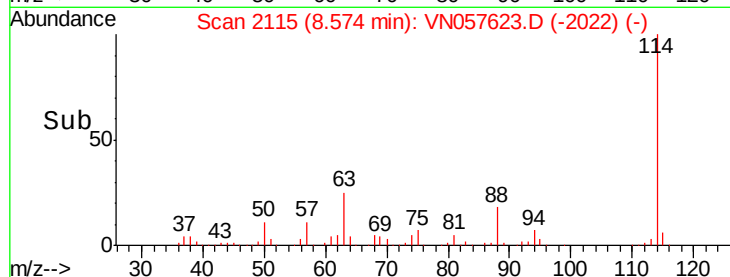
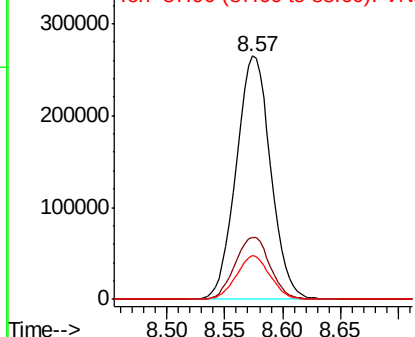
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN057623.D
 Acq: 31 Aug 2019 19:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 546770
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 49.0
 88 18.3 0.0 33.0

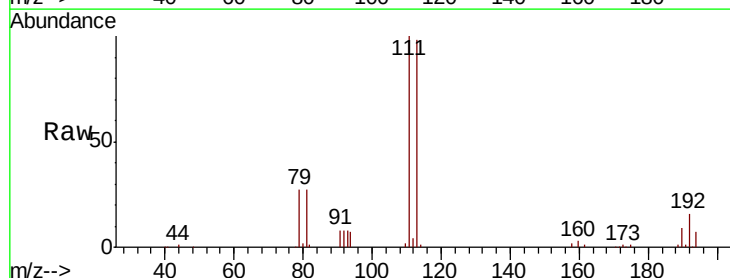


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

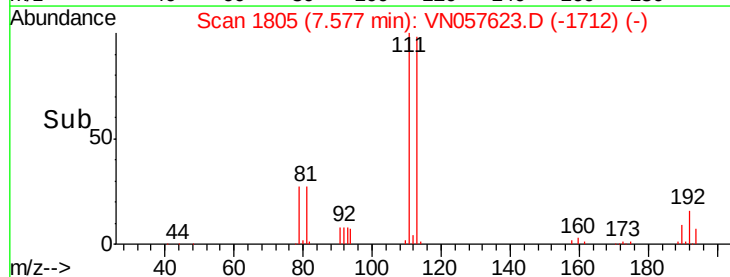
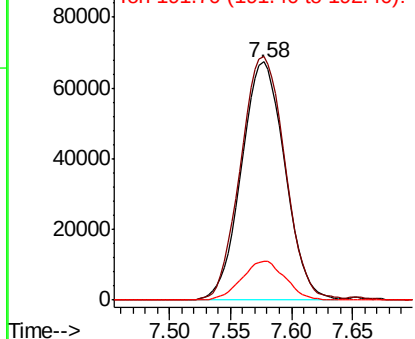


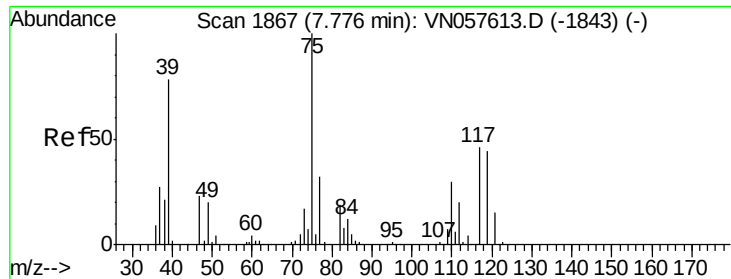
#35
 Dibromofluoromethane
 Concen: 34.833 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN057623.D
 Acq: 31 Aug 2019 19:06

Tgt Ion:113 Resp: 166323
 Ion Ratio Lower Upper
 113 100
 111 104.7 81.3 121.9
 192 16.4 13.5 20.3



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

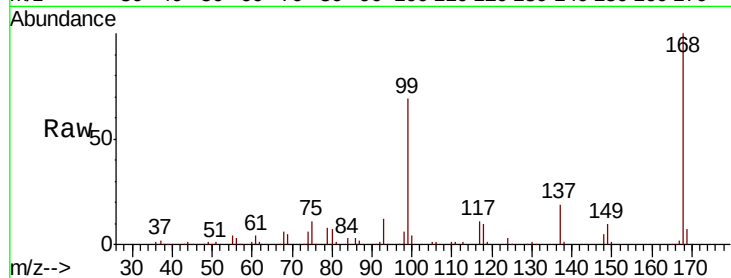




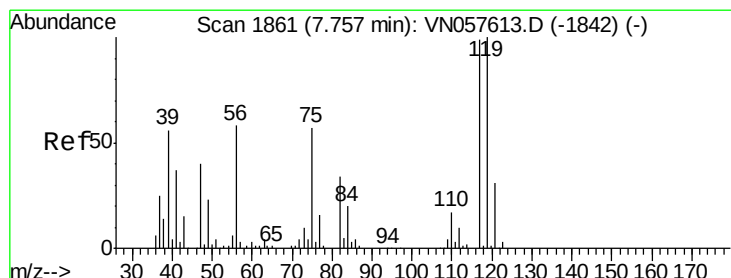
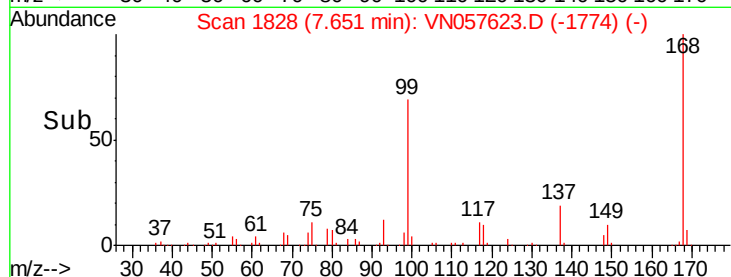
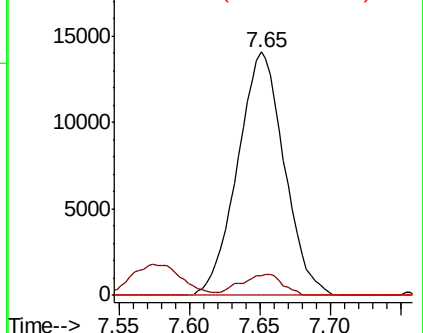
#36
 1,1-Dichloropropene
 Concen: 4.490 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057623.D
 Acq: 31 Aug 2019 19:06

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	15.6	46.8#
77	0.0	24.9	37.3#

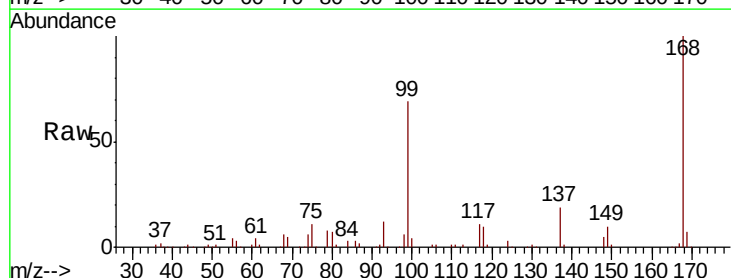


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

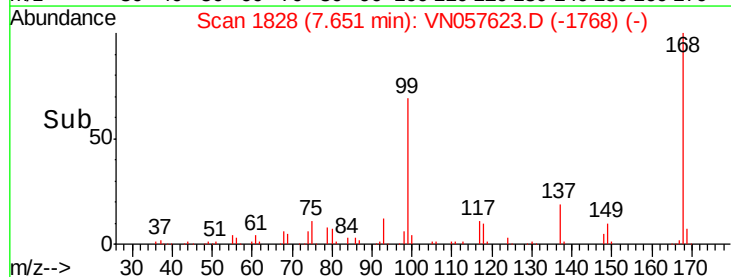
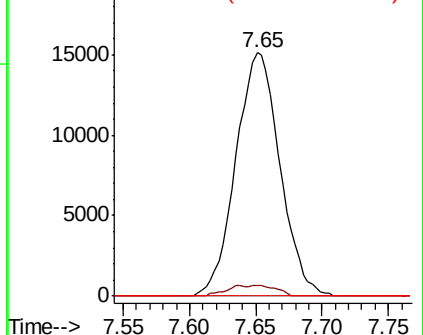


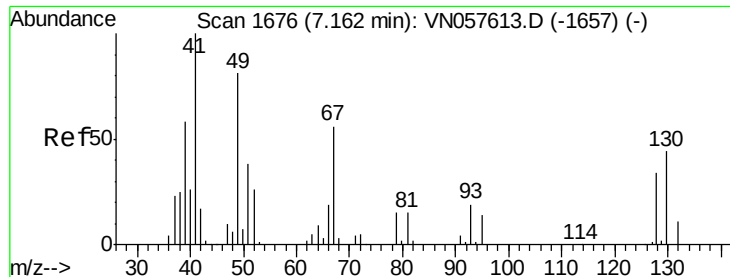
#38
 Carbon Tetrachloride
 Concen: 5.391 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057623.D
 Acq: 31 Aug 2019 19:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	80.6	120.8#
121	0.0	25.1	37.7#



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

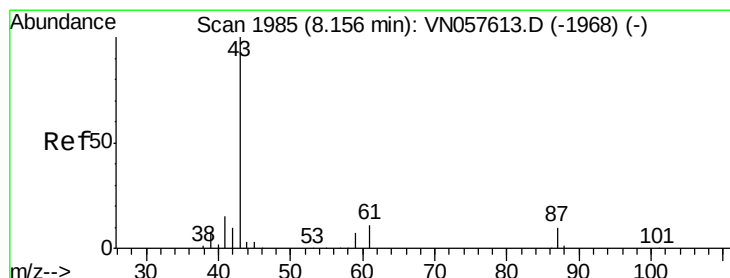
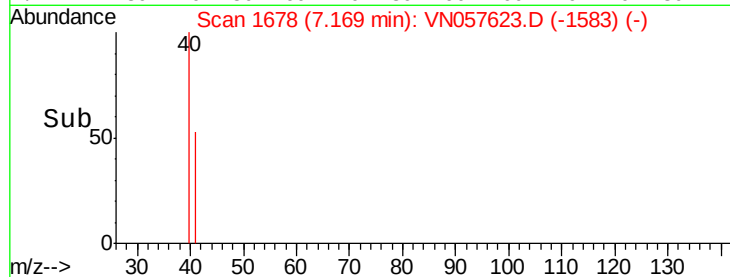
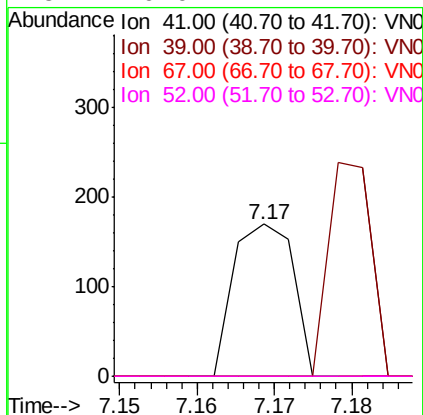
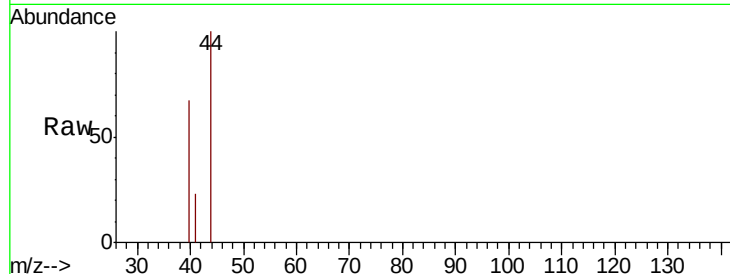




#41
Methacrylonitrile
Concen: 2.305 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.01 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

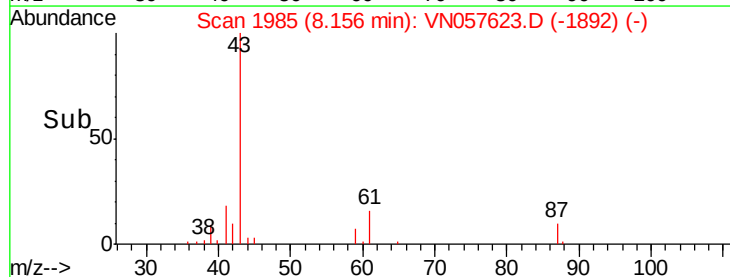
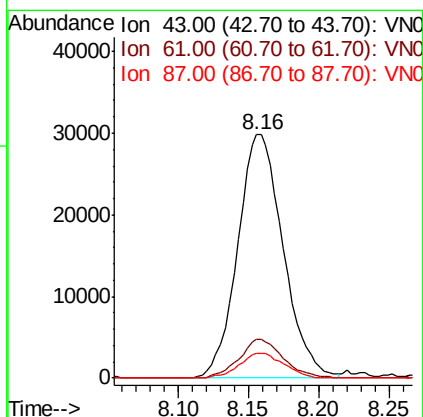
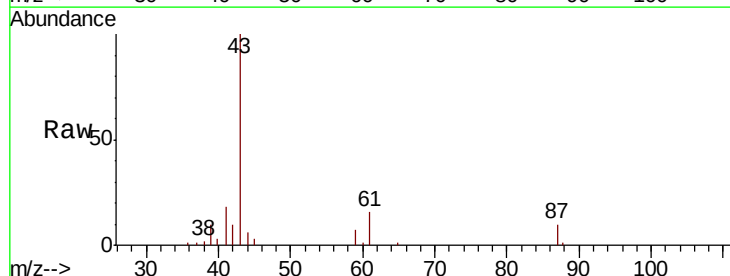
Instrument :
MSVOA_N
ClientSampled :

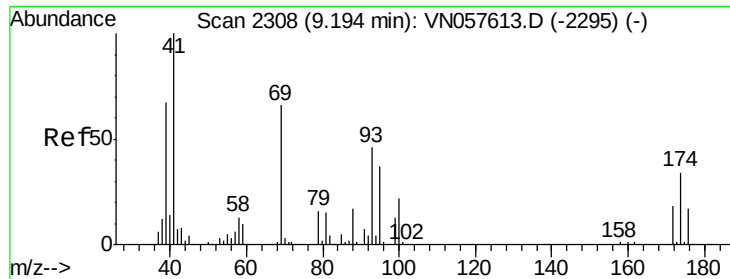
Tot Ion: 41 Resp: 91
Ion Ratio Lower Upper
41 100
39 100.0 50.6 75.8#
67 0.0 56.9 85.3#
52 0.0 27.4 41.2#



#43
Isopropyl Acetate
Concen: 5.421 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. -0.00 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Tgt Ion: 43 Resp: 67353
Ion Ratio Lower Upper
43 100
61 15.4 13.1 19.7
87 9.9 8.1 12.1

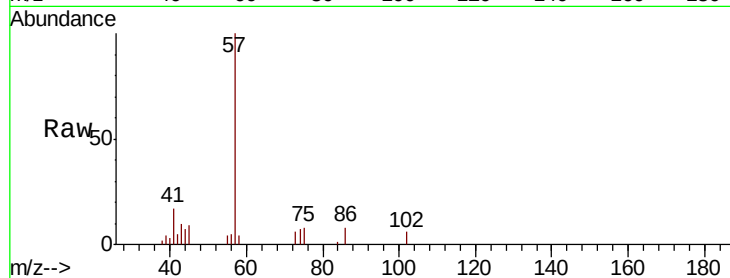




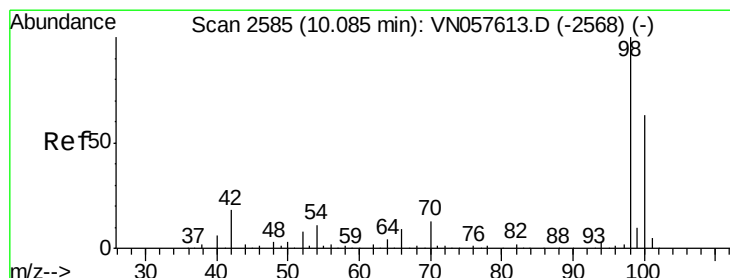
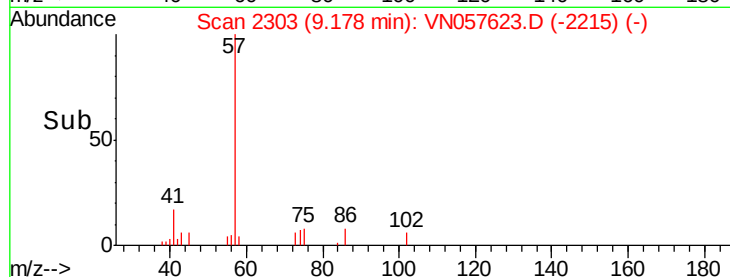
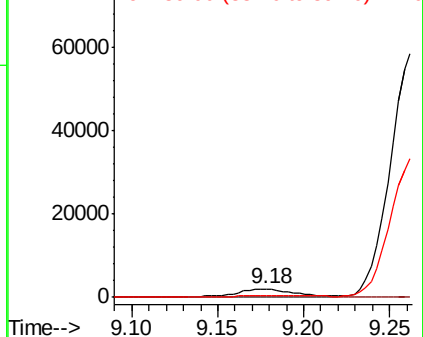
#48
Methvl methacrylate
Concen: 0.748 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 4745
Ion Ratio Lower Upper
41 100
69 0.0 55.1 82.7#
39 0.0 55.4 83.2#

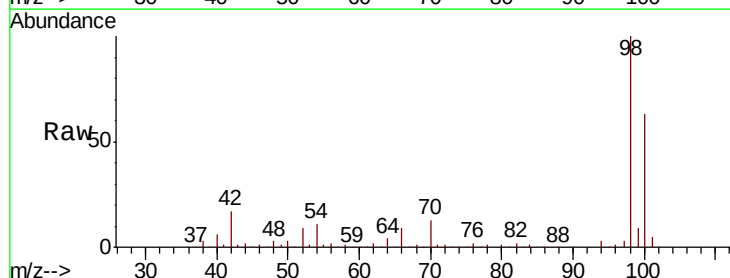


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

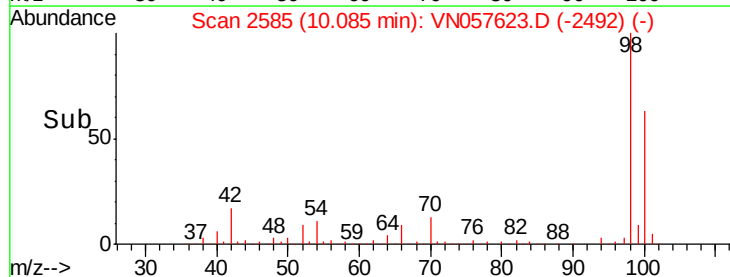
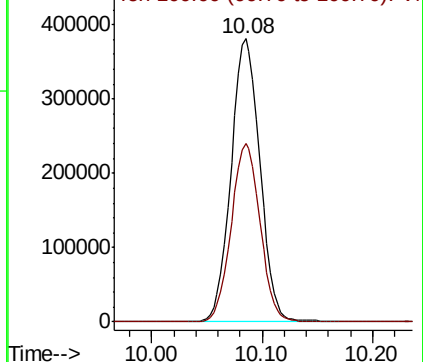


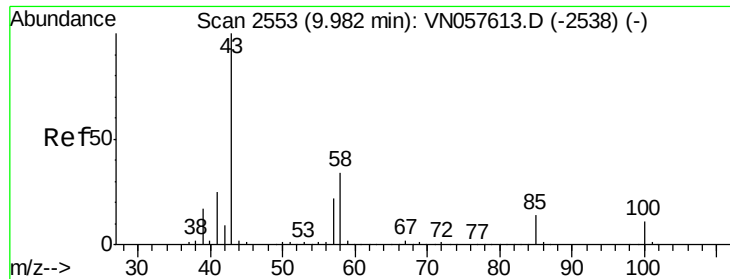
#50
Toluene-d8
Concen: 37.782 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Tgt Ion: 98 Resp: 692610
Ion Ratio Lower Upper
98 100
100 62.9 49.8 74.8



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: 0.861 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

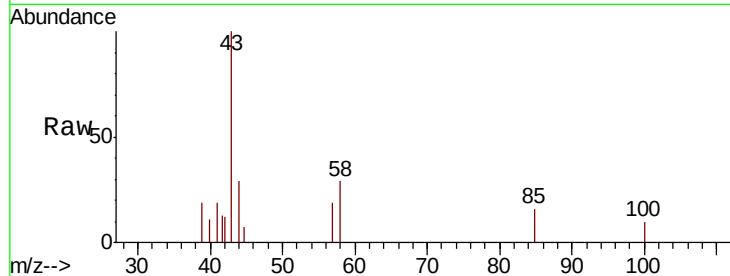
ClientSampled :

Tot Ion: 43 Resp: 6133

Ion Ratio Lower Upper

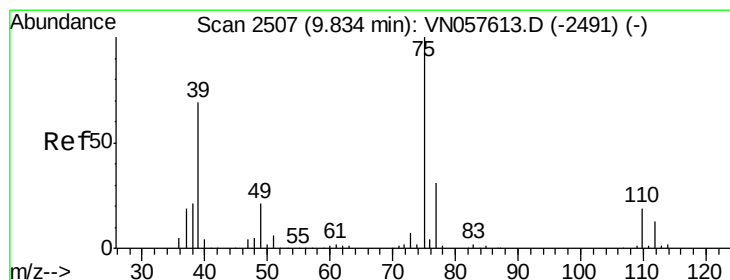
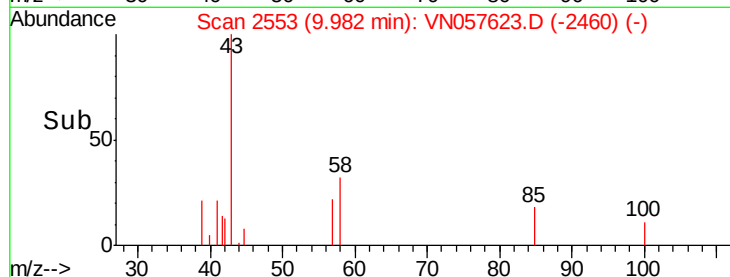
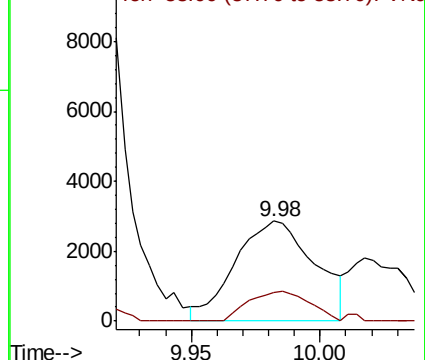
43 100

58 23.1 26.9 40.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.498 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

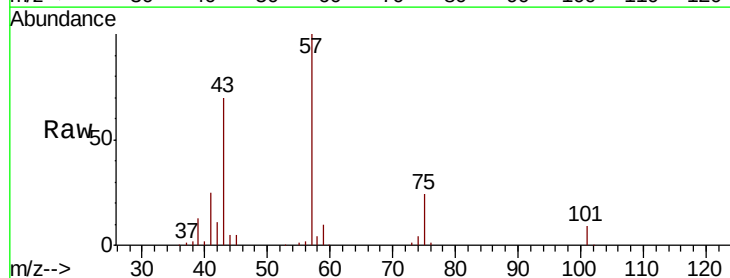
Tgt Ion: 75 Resp: 25282

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

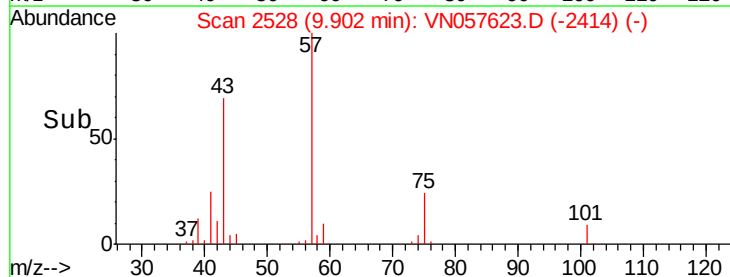
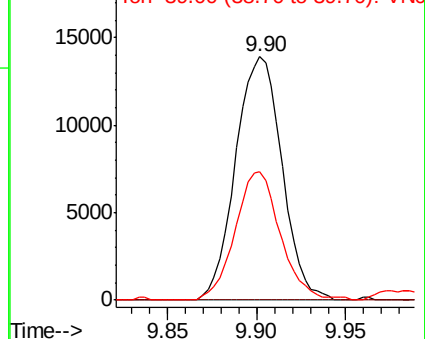
39 52.5 55.0 82.4#

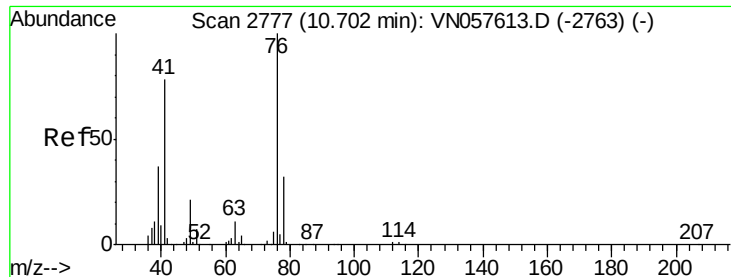


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.444 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

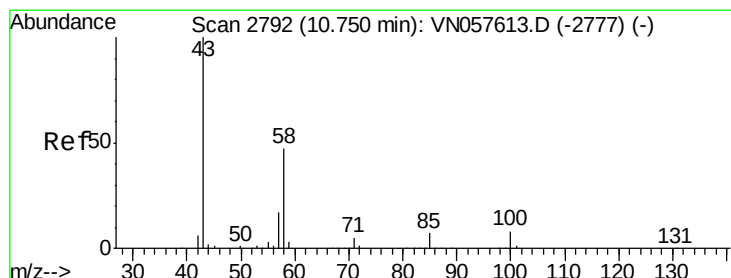
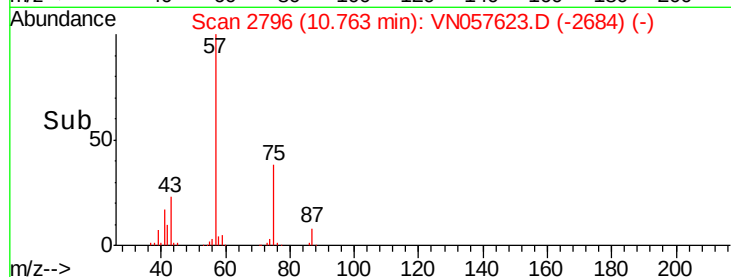
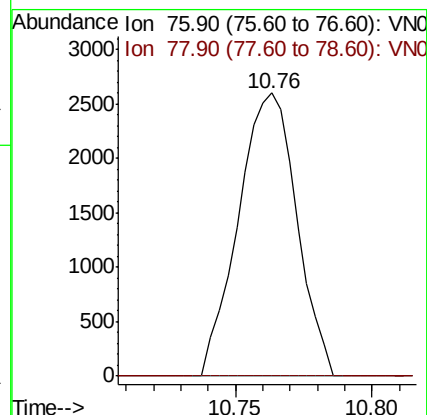
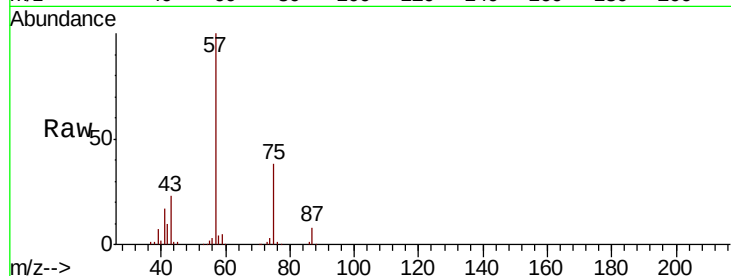
ClientSampled :

Tot Ion: 76 Resp: 3858

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 13.411 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057623.D

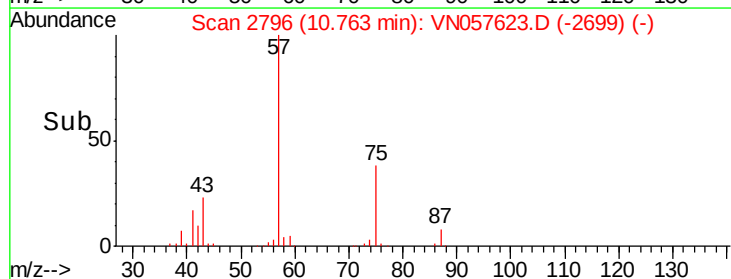
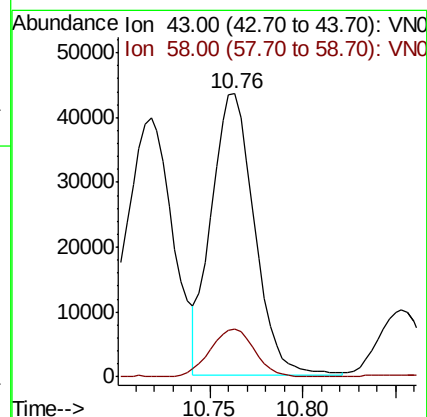
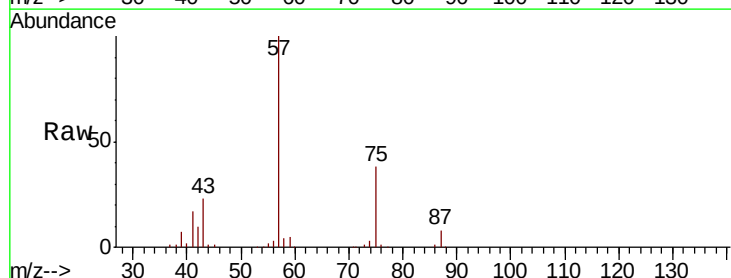
Acq: 31 Aug 2019 19:06

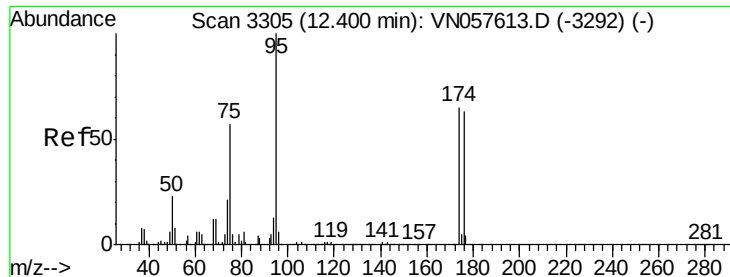
Tgt Ion: 43 Resp: 70123

Ion Ratio Lower Upper

43 100

58 17.4 23.5 70.5#





#62

4-Bromofluorobenzene

Concen: 31.418 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

ClientSampled :

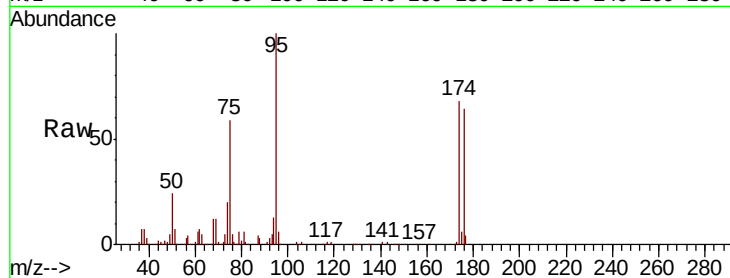
Tot Ion: 95 Resp: 219013

Ion Ratio Lower Upper

95 100

174 67.0 0.0 134.8

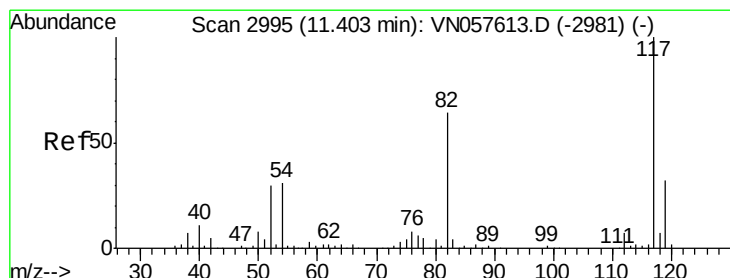
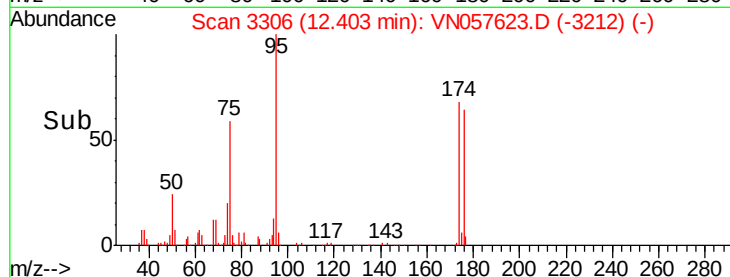
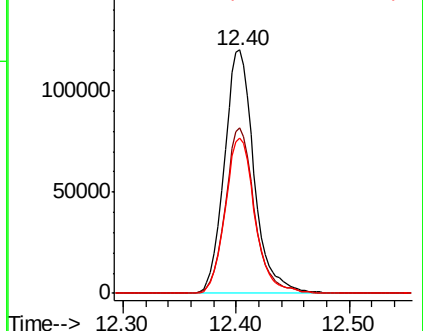
176 64.2 0.0 131.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

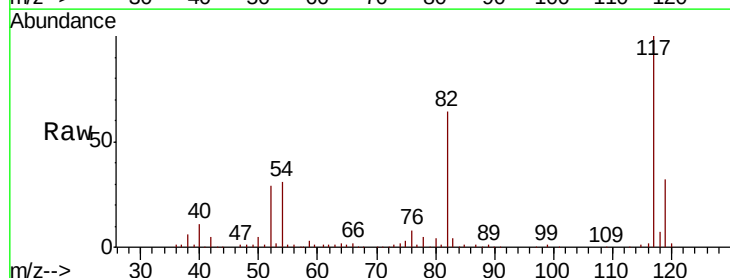
Tgt Ion: 117 Resp: 474260

Ion Ratio Lower Upper

117 100

82 64.3 51.6 77.4

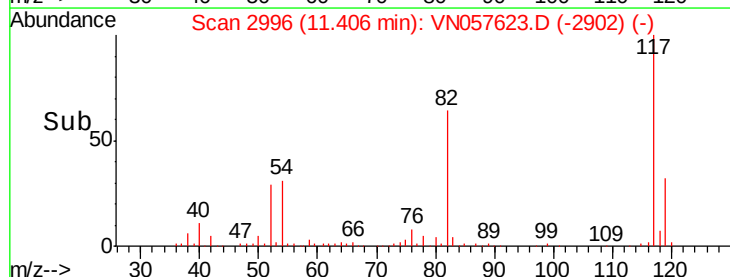
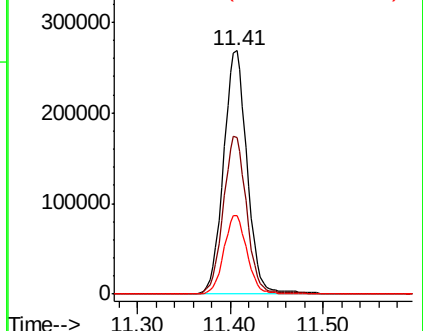
119 32.4 25.8 38.6

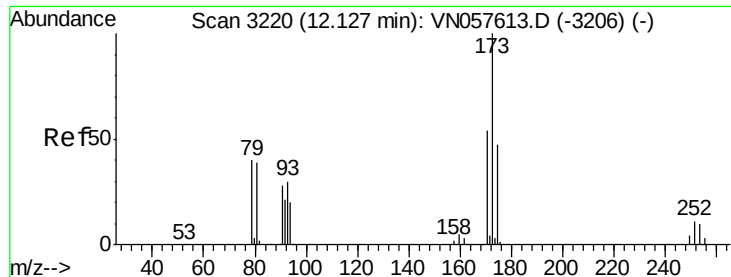


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 6.278 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

ClientSampled :

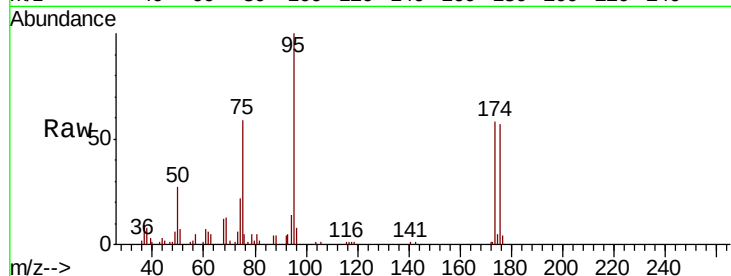
Tot Ion:173 Resp: 208

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.4#

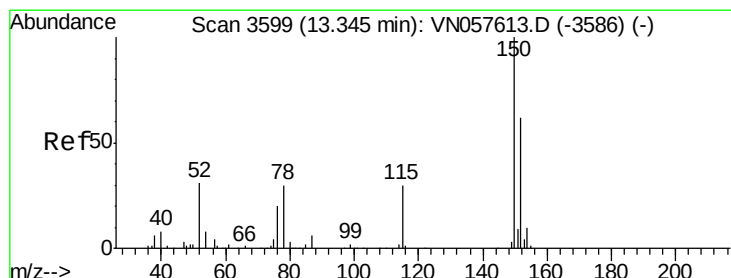
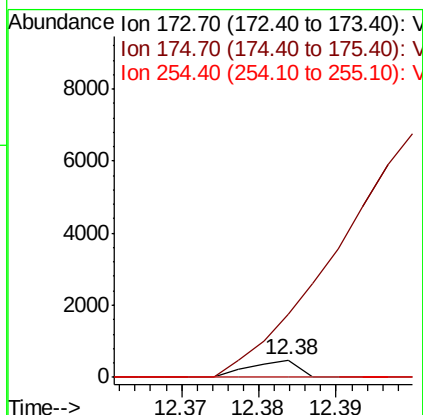
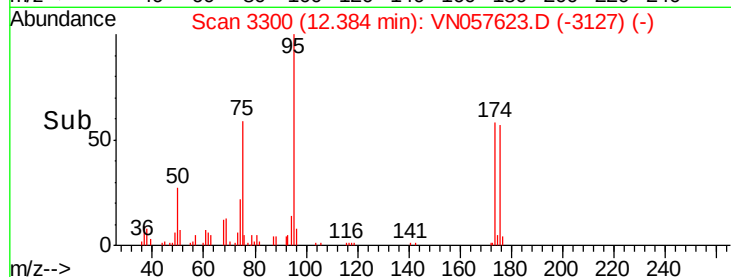
254 0.0 0.0 0.0



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: VN057623.D

Acq: 31 Aug 2019 19:06

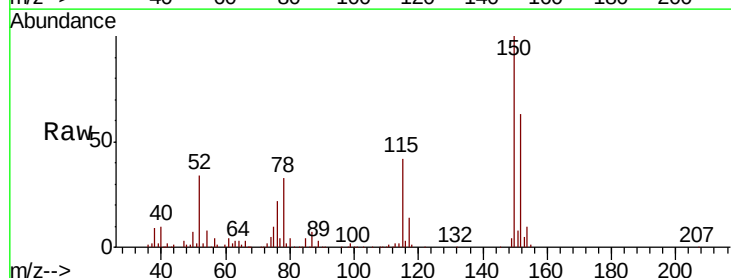
Tgt Ion:152 Resp: 141897

Ion Ratio Lower Upper

152 100

115 66.2 33.2 99.6

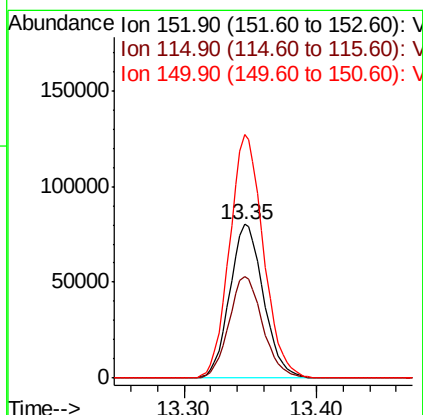
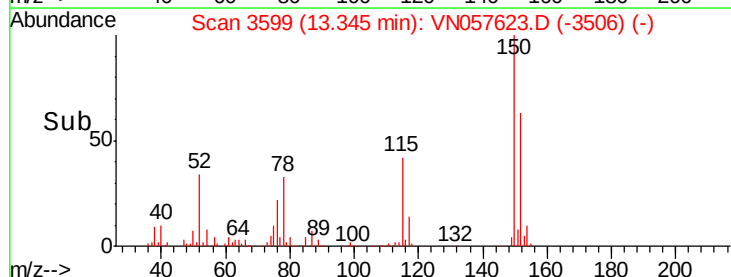
150 158.4 0.0 365.2

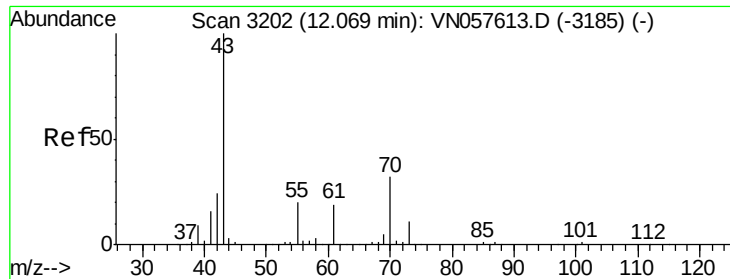


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

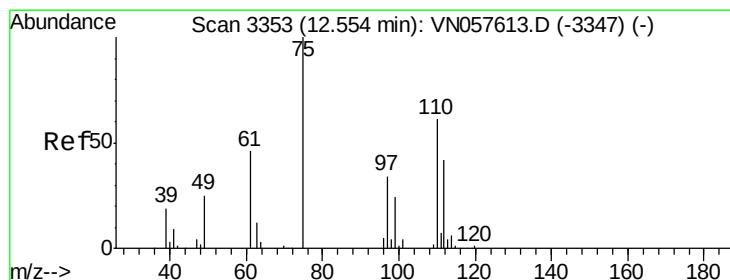
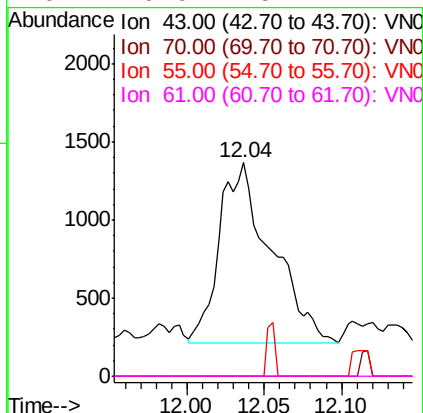
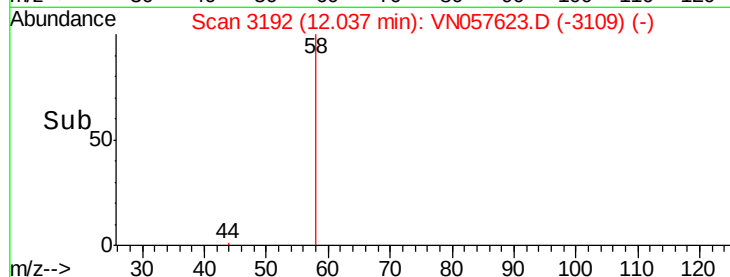
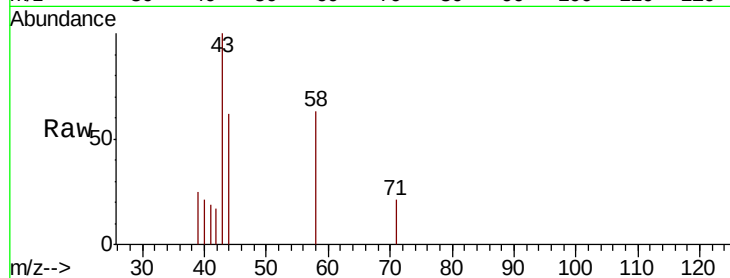




#74
N-amyl acetate
Concen: 0.396 ug/l
RT: 12.04 min Scan# 3192
Delta R.T. -0.03 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

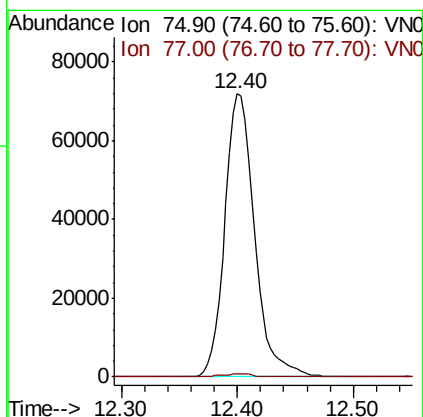
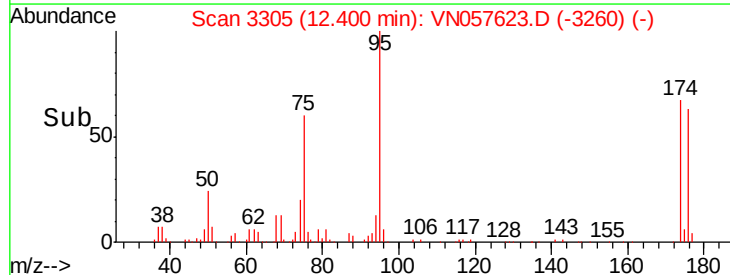
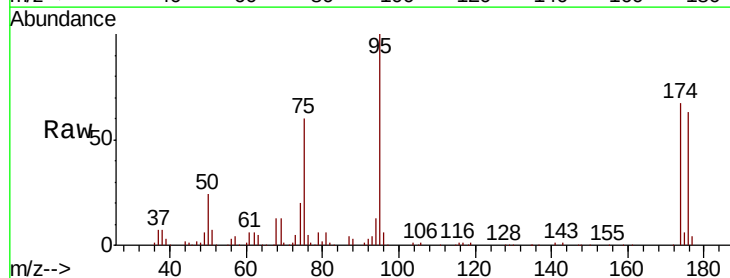
Instrument :
MSVOA_N
ClientSampled :

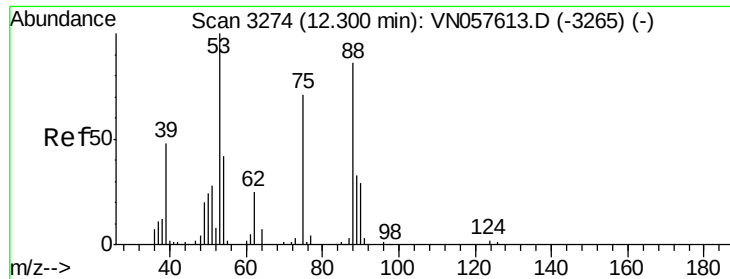
Tot Ion: 43 Resp: 2677
Ion Ratio Lower Upper
43 100
70 0.0 26.9 40.3#
55 4.7 16.8 25.2#
61 0.0 15.1 22.7#



#76
1,2,3-Trichloropropane
Concen: 34.335 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN057623.D
Acq: 31 Aug 2019 19:06

Tgt Ion: 75 Resp: 128156
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 117.694 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

ClientSampled :

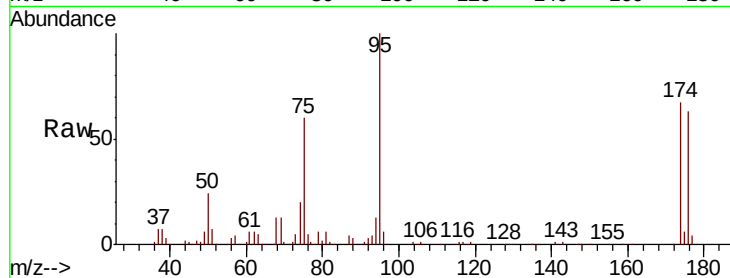
Tot Ion: 75 Resp: 128156

Ion Ratio Lower Upper

75 100

53 0.0 111.0 166.6#

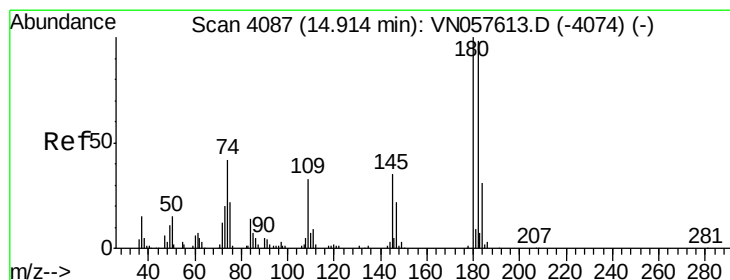
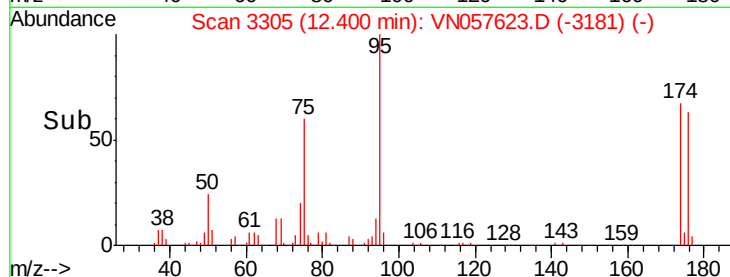
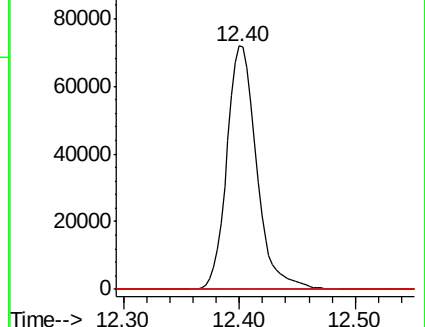
89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VN057613.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057613.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057613.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 8.665 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

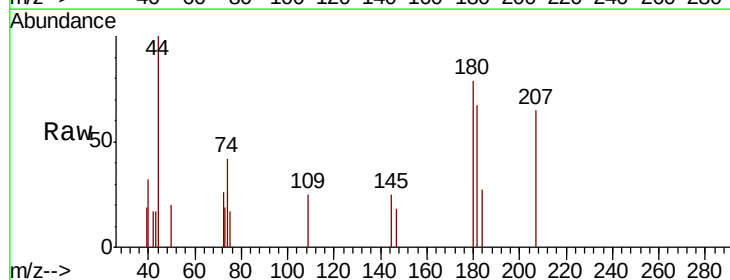
Tgt Ion:180 Resp: 910

Ion Ratio Lower Upper

180 100

182 88.6 47.8 143.3

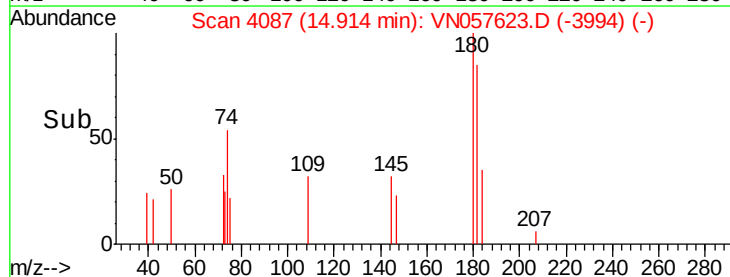
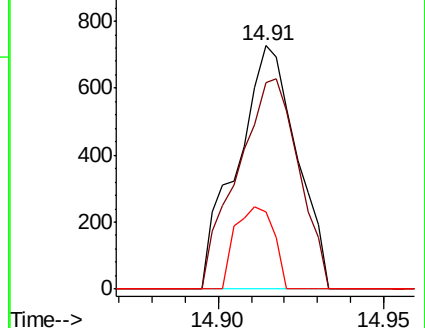
145 21.9 16.9 50.7

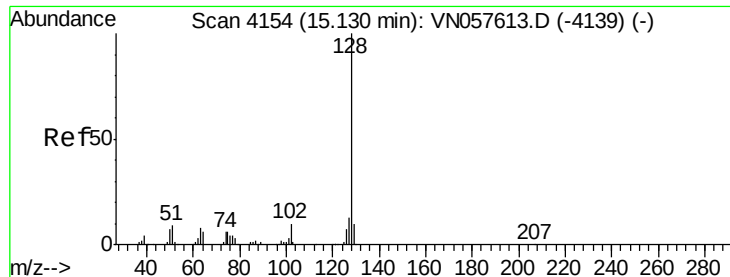


Abundance Ion 179.80 (179.50 to 180.50): VN057613.D (-4074) (-)

Ion 181.80 (181.50 to 182.50): VN057613.D (-4074) (-)

Ion 144.80 (144.50 to 145.50): VN057613.D (-4074) (-)





#95

Naphthalene

Concen: 7.092 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

Instrument :

MSVOA_N

ClientSampled :

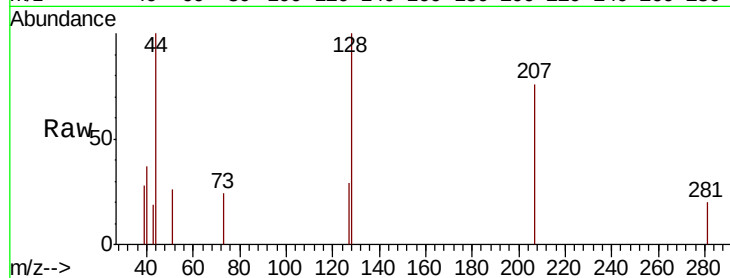
Tot Ion:128 Resp: 1349

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

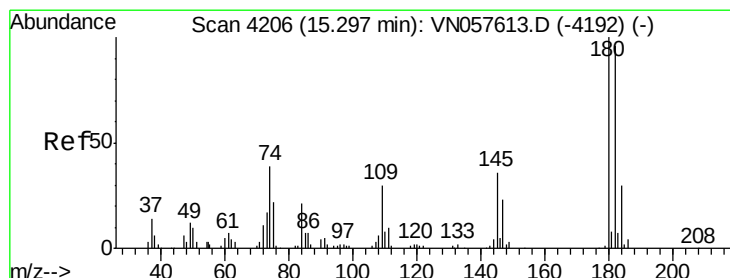
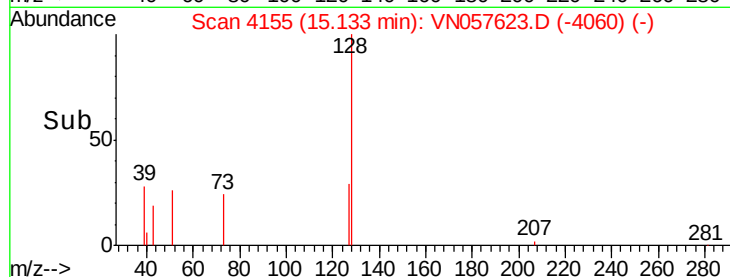
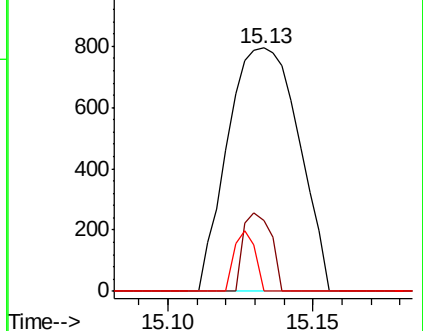
129 7.2 8.6 12.8#



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: 8.133 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN057623.D

Acq: 31 Aug 2019 19:06

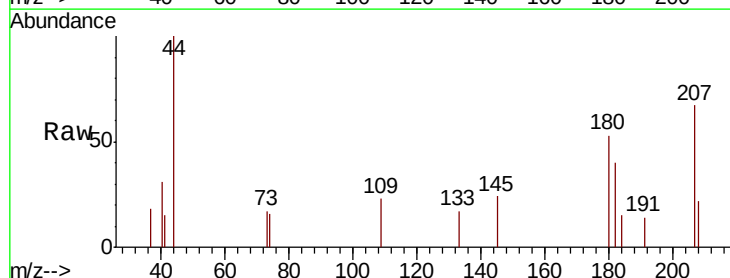
Tgt Ion:180 Resp: 899

Ion Ratio Lower Upper

180 100

182 93.4 46.3 138.9

145 16.1 17.8 53.3#



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

