

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058962.D
 Acq On : 24 Oct 2019 15:34
 Operator : JC/SP
 Sample : K5486-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:25:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	347184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	542983	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	479035	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	173065	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	258895	50.84	ug/l	0.00
Spiked Amount						
			Recovery	=	101.68%	
35) Dibromofluoromethane	7.57	113	185034	51.83	ug/l	0.00
Spiked Amount						
			Recovery	=	103.66%	
50) Toluene-d8	10.08	98	692396	49.96	ug/l	0.00
Spiked Amount						
			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.40	95	217901	42.82	ug/l	0.00
Spiked Amount						
			Recovery	=	85.64%	

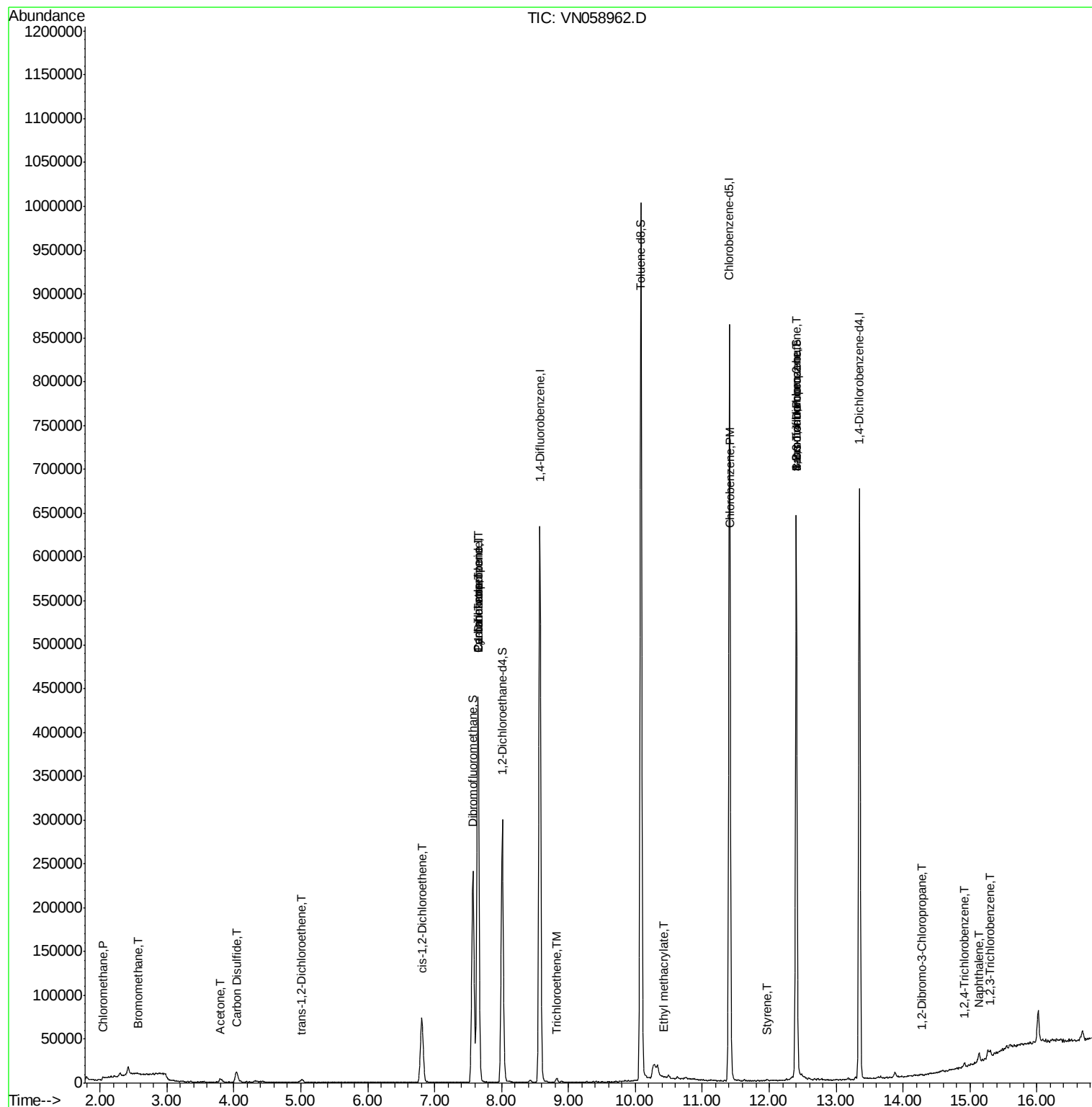
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1594	0.297	ug/l	98
5) Bromomethane	2.56	94	708	0.212	ug/l #	59
16) Acetone	3.79	43	3472	1.380	ug/l	94
17) Carbon Disulfide	4.03	76	4733	0.429	ug/l #	92
21) trans-1,2-Dichloroethene	5.01	96	1983	0.525	ug/l #	73
27) cis-1,2-Dichloroethene	6.81	96	46658	10.806	ug/l	88
31) Cyclohexane	7.65	56	8236	1.125	ug/l #	9
36) 1,1-Dichloropropene	7.65	75	28440	5.116	ug/l #	51
38) Carbon Tetrachloride	7.65	117	34146	5.962	ug/l #	17
44) Trichloroethene	8.82	130	1605	0.404	ug/l	92
56) Ethyl methacrylate	10.43	69	62	2.106	ug/l #	55
65) Chlorobenzene	11.43	112	2941	0.302	ug/l	93
70) Styrene	11.96	104	235	1.734	ug/l #	24
71) Bromoform	12.40	173	1348	0.472	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	116458	29.035	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	116458	75.638	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.27	75	391	0.389	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.92	180	1578	2.955	ug/l	95
95) Naphthalene	15.13	128	6444	2.846	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	2180	3.013	ug/l	87

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

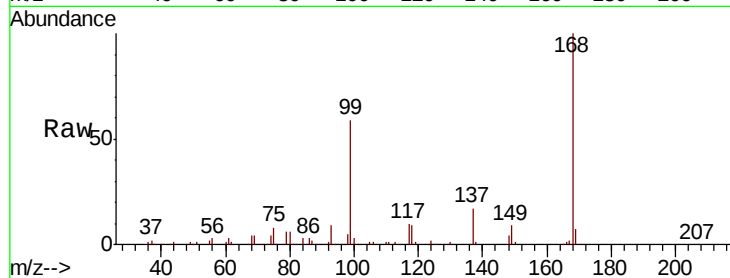
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 347184

Ion Ratio Lower Upper

168 100

99 58.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

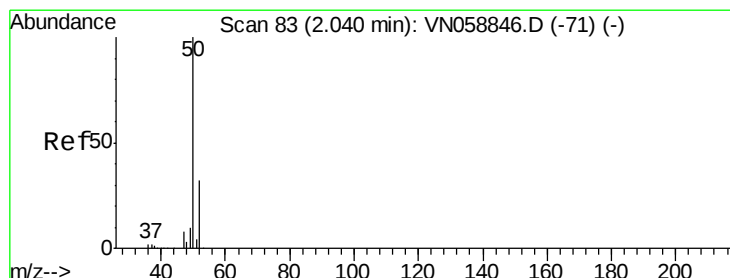
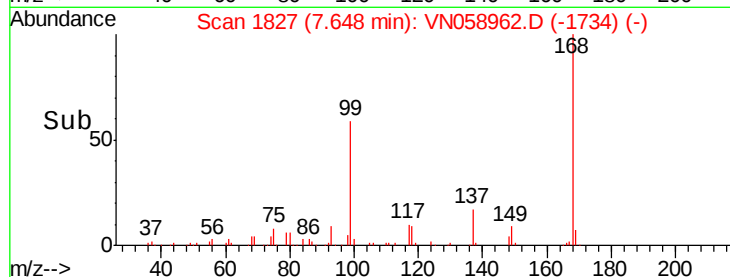
100000

50000

0

Time-->

7.60 7.70



#3

Chloromethane

Concen: 0.297 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058962.D

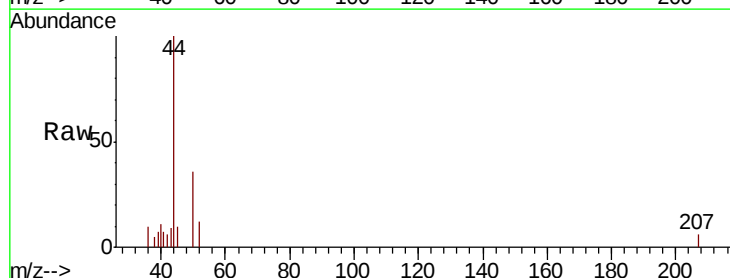
Acq: 24 Oct 2019 15:34

Tgt Ion: 50 Resp: 1594

Ion Ratio Lower Upper

50 100

52 33.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

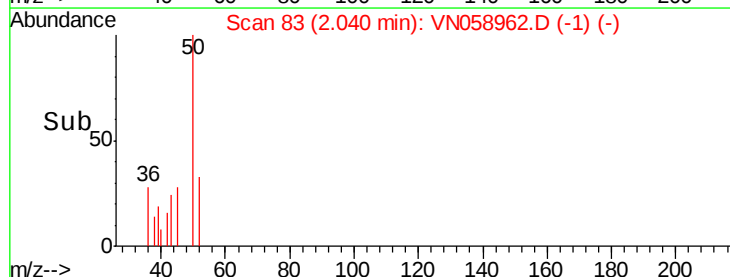
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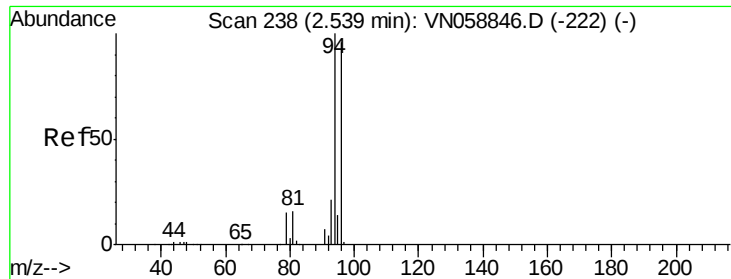
500

0

Time-->

2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: 0.212 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.03 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

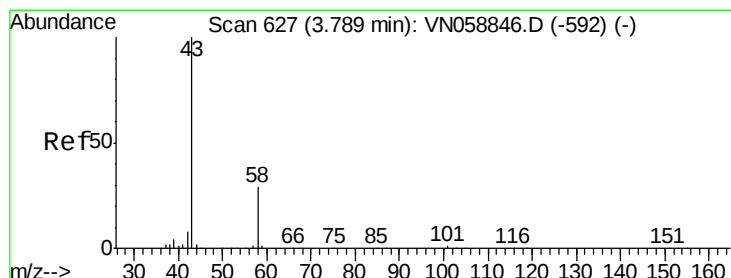
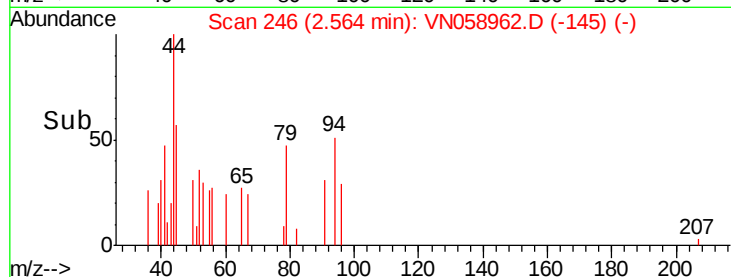
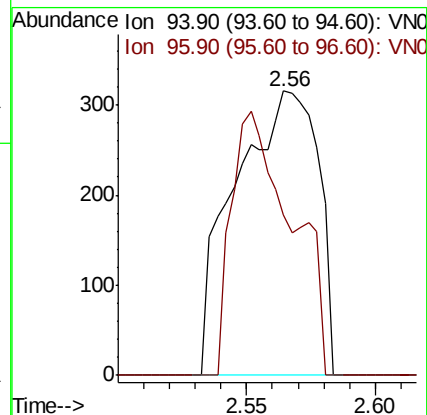
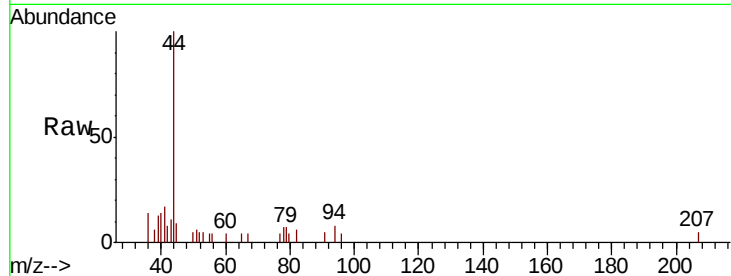
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 708

Ion Ratio Lower Upper

94 100

96 56.3 77.0 115.6#



#16

Acetone

Concen: 1.380 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058962.D

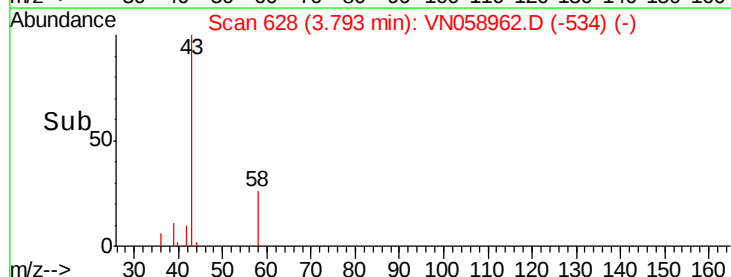
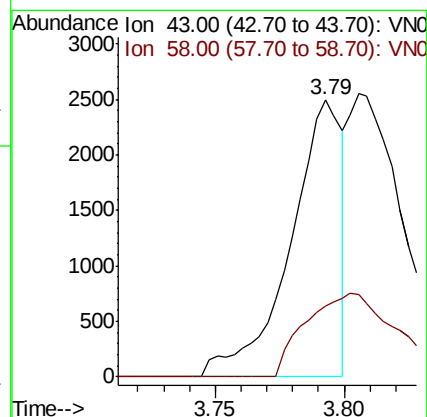
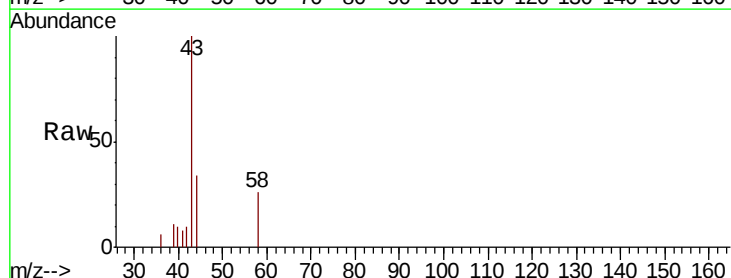
Acq: 24 Oct 2019 15:34

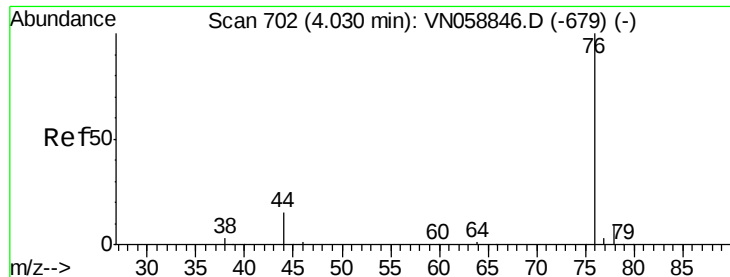
Tgt Ion: 43 Resp: 3472

Ion Ratio Lower Upper

43 100

58 25.8 23.1 34.7

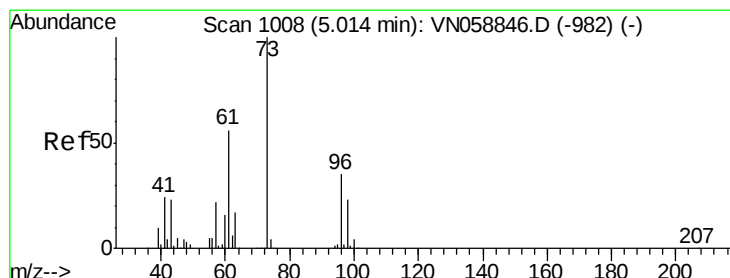
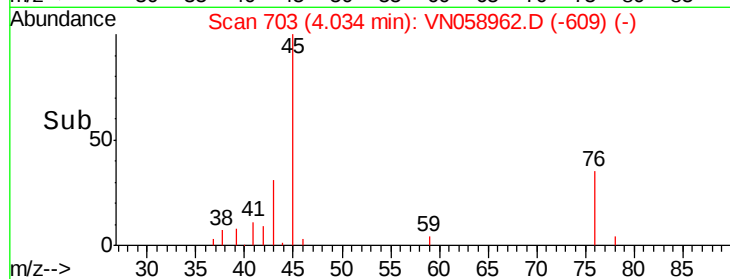
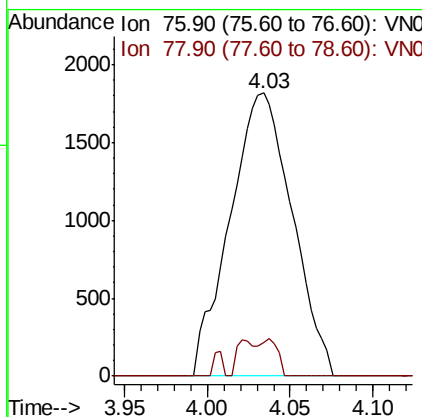
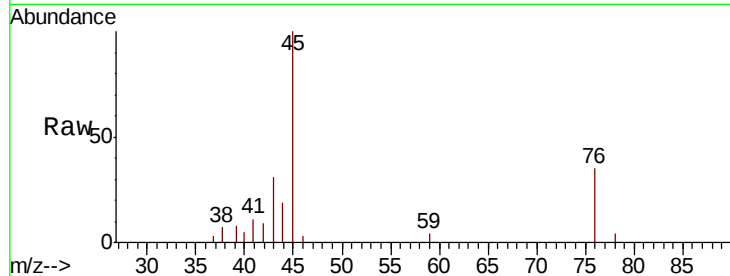




#17
Carbon Disulfide
Concen: 0.429 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN058962.D
Acq: 24 Oct 2019 15:34

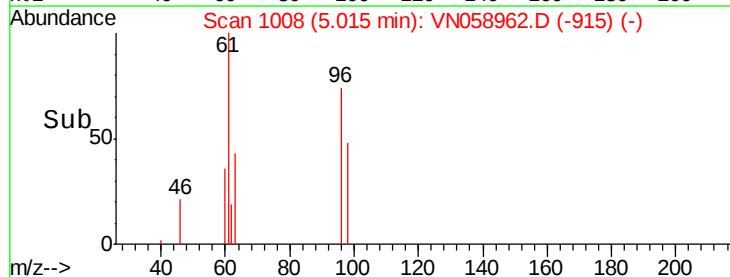
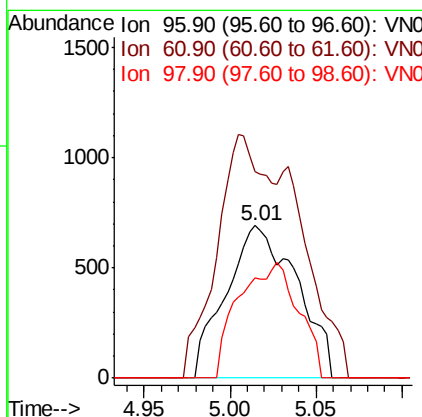
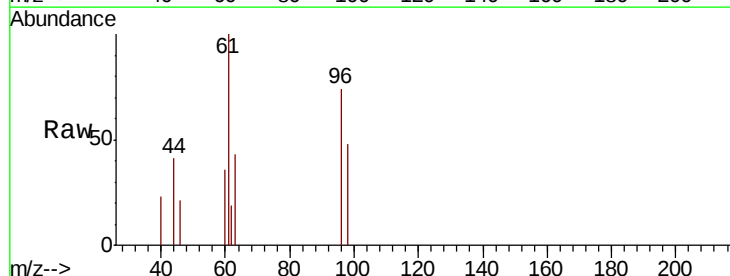
Instrument :
MSVOA_N
ClientSampled :

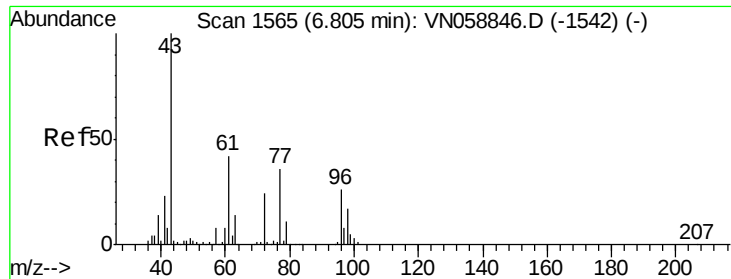
Tot Ion: 76 Resp: 4733
Ion Ratio Lower Upper
76 100
78 11.9 7.1 10.7#



#21
trans-1,2-Dichloroethene
Concen: 0.525 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN058962.D
Acq: 24 Oct 2019 15:34

Tgt Ion: 96 Resp: 1983
Ion Ratio Lower Upper
96 100
61 108.7 126.7 190.1#
98 65.4 52.0 78.0





#27

cis-1,2-Dichloroethene

Concen: 10.806 ug/l

RT: 6.81 min Scan# 1566

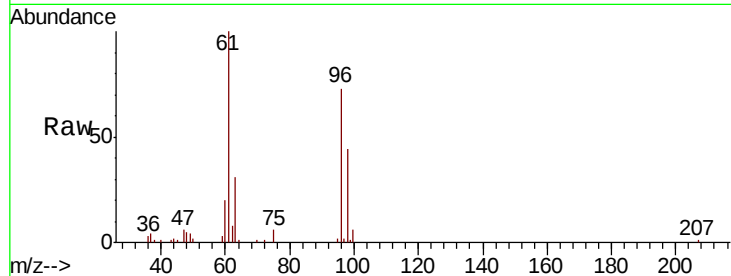
Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :
MSVOA_N
ClientSampled :

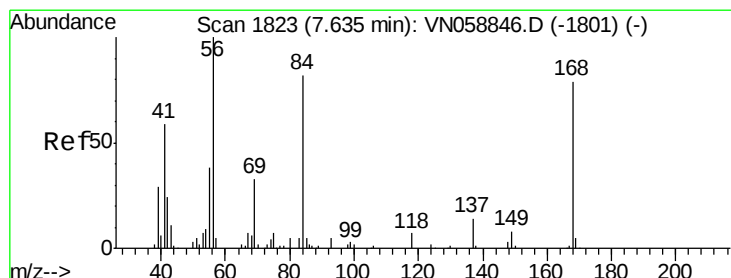
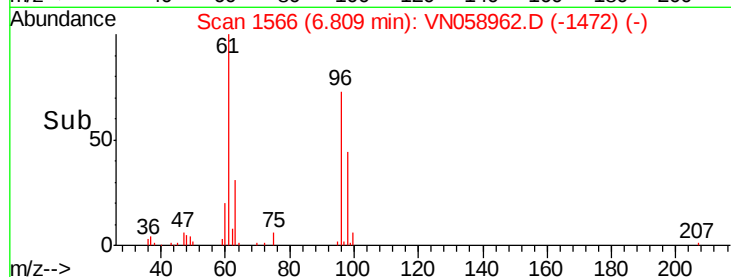
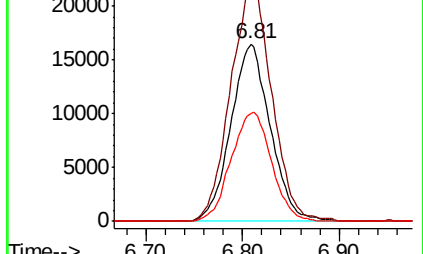
Tot Ion:	96	Resp:	46658
Ion	Ratio	Lower	Upper
96	100		
61	140.0	0.0	325.0
98	62.9	0.0	128.0



Abundance Ion 95.90 (95.60 to 96.60): VN058846.D (-1542) (-)

Ion 60.90 (60.60 to 61.60): VN058846.D (-1542) (-)

Ion 97.90 (97.60 to 98.60): VN058846.D (-1542) (-)



#31

Cyclohexane

Concen: 1.125 ug/l

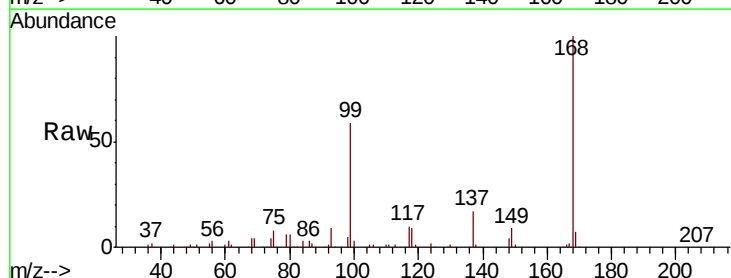
RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

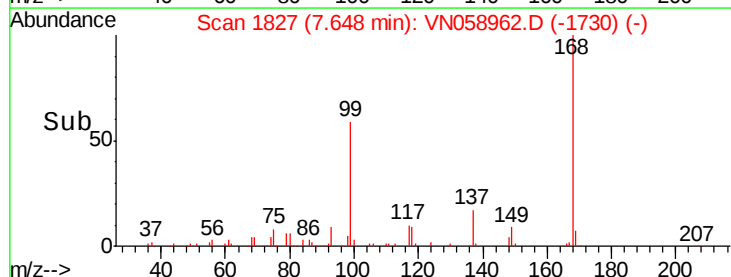
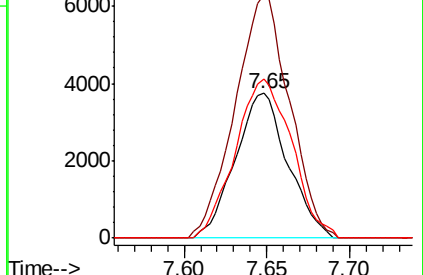
Tgt Ion:	56	Resp:	8236
Ion	Ratio	Lower	Upper
56	100		
69	168.0	26.2	39.4#
84	110.0	65.6	98.4#

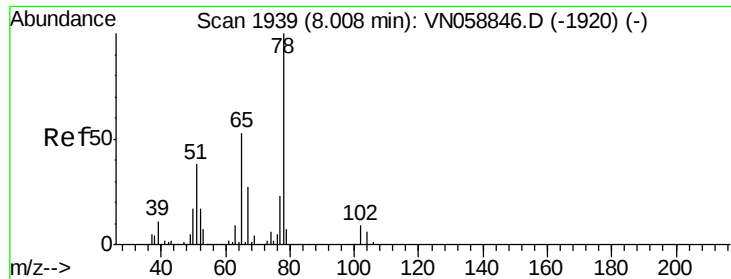


Abundance Ion 56.00 (55.70 to 56.70): VN058846.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN058846.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN058846.D (-1801) (-)

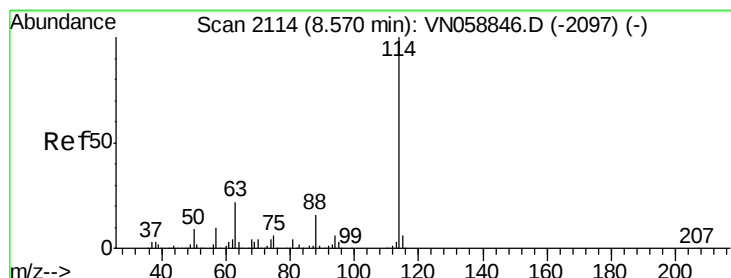
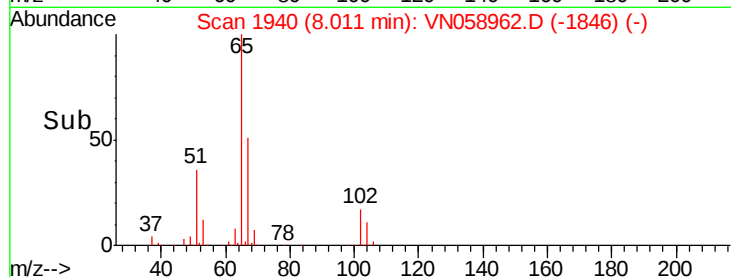
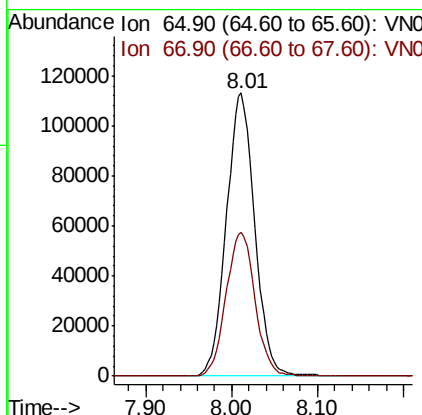
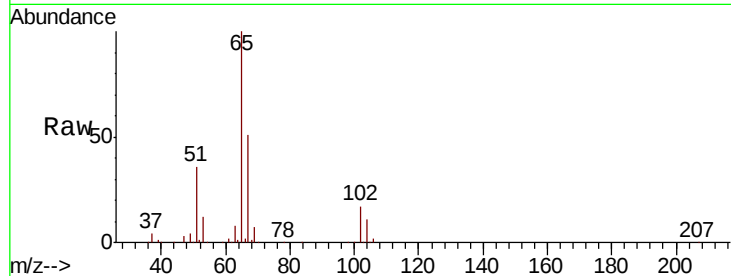




#33
 1,2-Dichloroethane-d4
 Concen: 50.844 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058962.D
 Acq: 24 Oct 2019 15:34

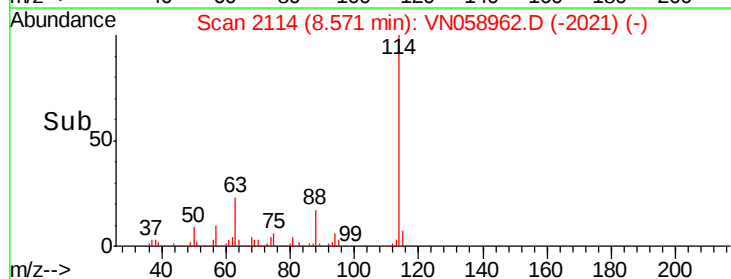
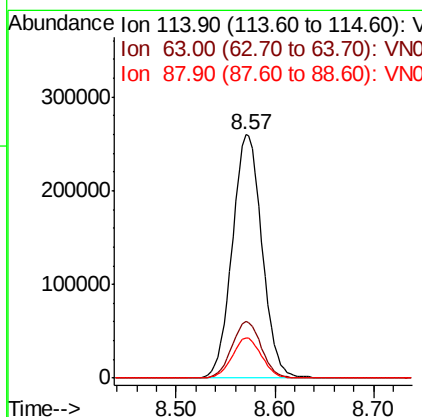
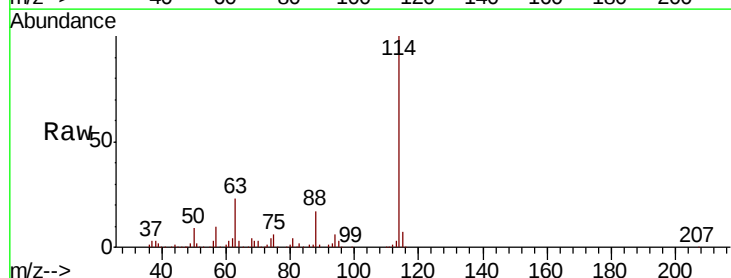
Instrument :
 MSVOA_N
 ClientSampleId :

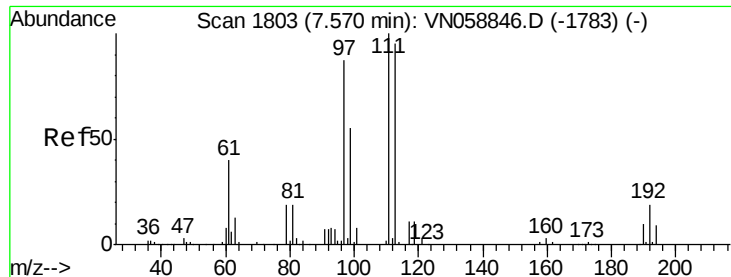
Tot Ion: 65 Resp: 258895
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058962.D
 Acq: 24 Oct 2019 15:34

Tgt Ion: 114 Resp: 542983
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 44.4
 88 16.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.831 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :
MSVOA_N
ClientSampled :

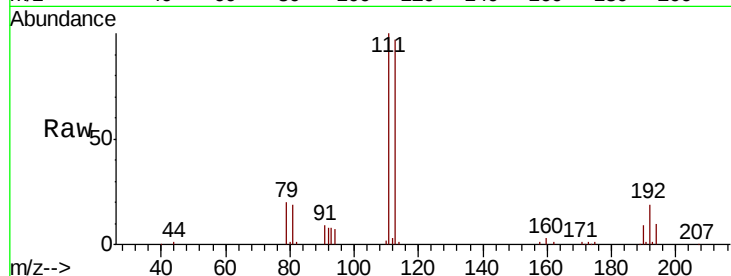
Tot Ion:113 Resp: 185034

Ion Ratio Lower Upper

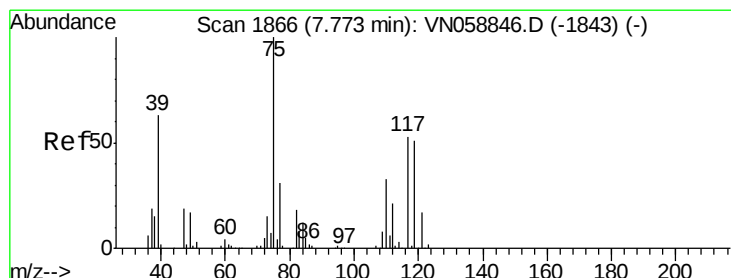
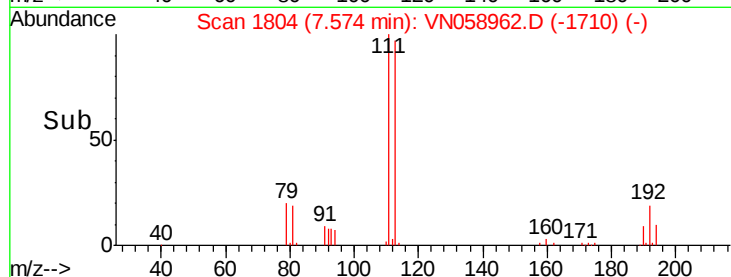
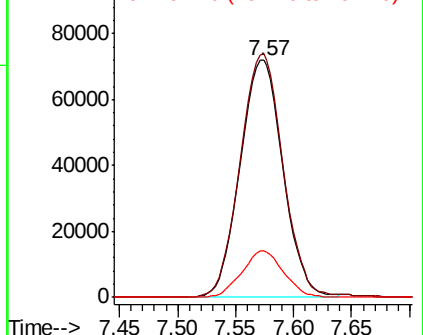
113 100

111 103.4 82.0 123.0

192 19.0 15.0 22.6



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: 5.116 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

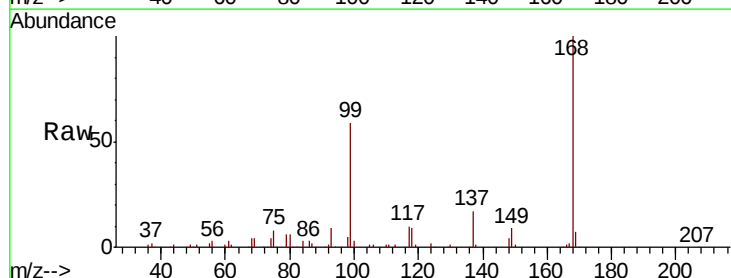
Tgt Ion: 75 Resp: 28440

Ion Ratio Lower Upper

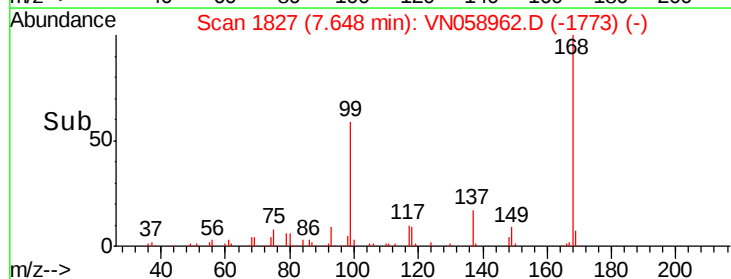
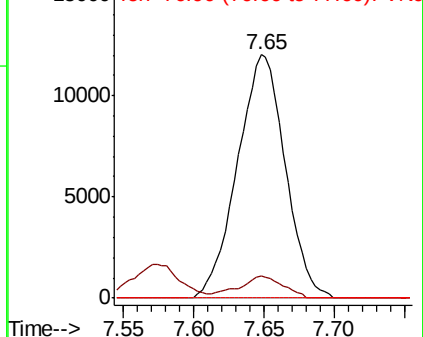
75 100

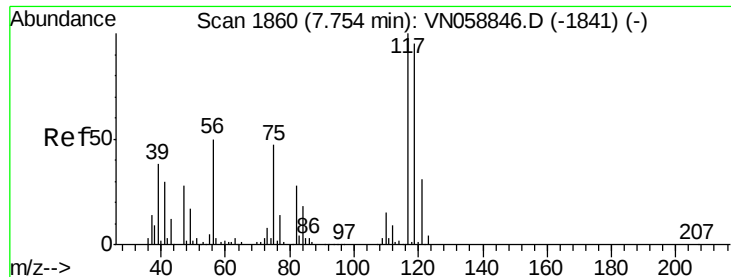
110 8.5 16.3 48.9#

77 0.0 24.6 36.8#



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





#38

Carbon Tetrachloride

Concen: 5.962 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

ClientSampled :

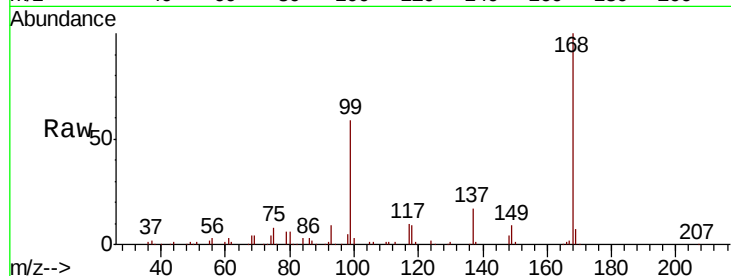
Tot Ion:117 Resp: 34146

Ion Ratio Lower Upper

117 100

119 5.8 75.7 113.5#

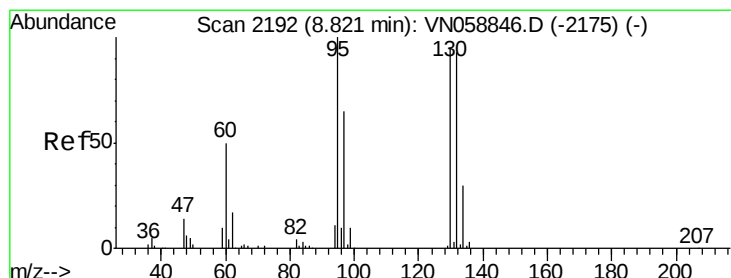
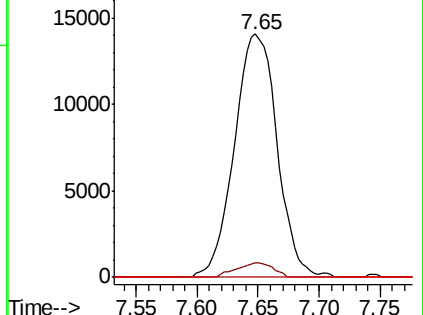
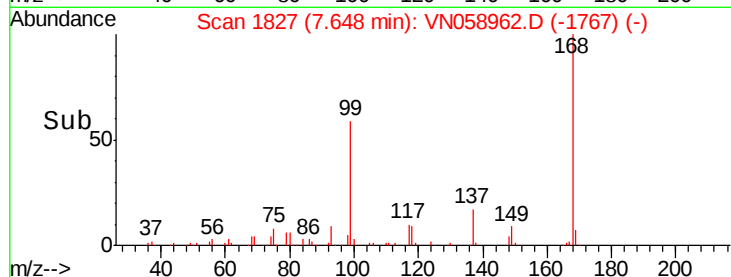
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.404 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN058962.D

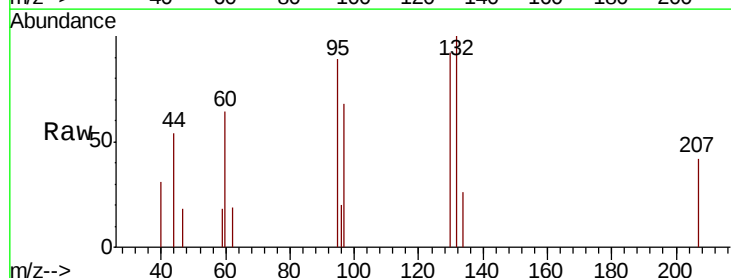
Acq: 24 Oct 2019 15:34

Tgt Ion:130 Resp: 1605

Ion Ratio Lower Upper

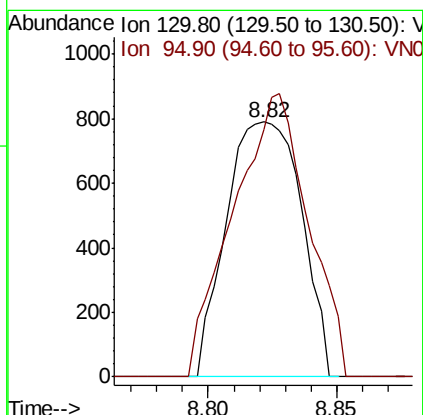
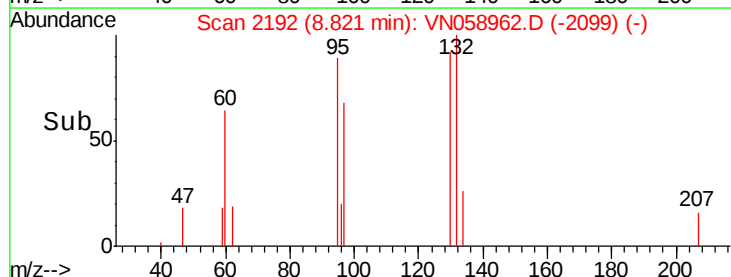
130 100

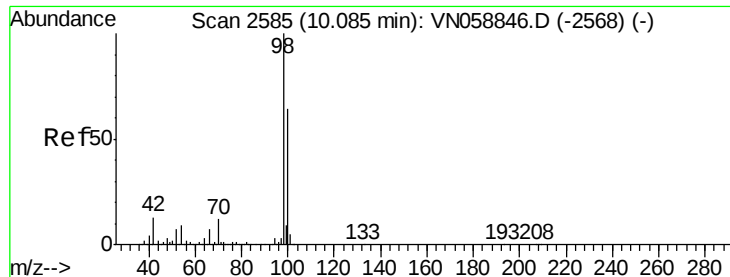
95 97.1 0.0 209.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 49.963 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

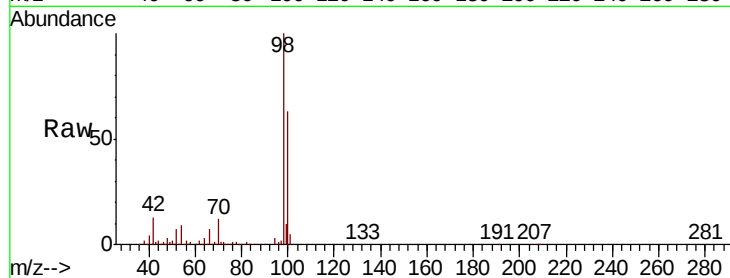
ClientSampleId :

Tot Ion: 98 Resp: 692396

Ion Ratio Lower Upper

98 100

100 63.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

400000

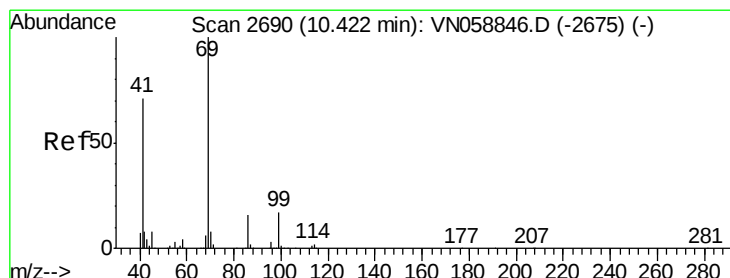
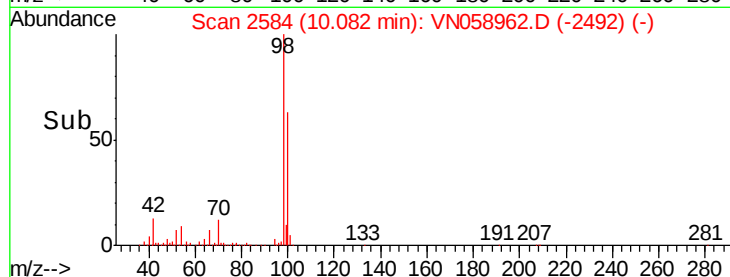
300000

200000

100000

0

Time-->



#56

Ethyl methacrylate

Concen: 2.106 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

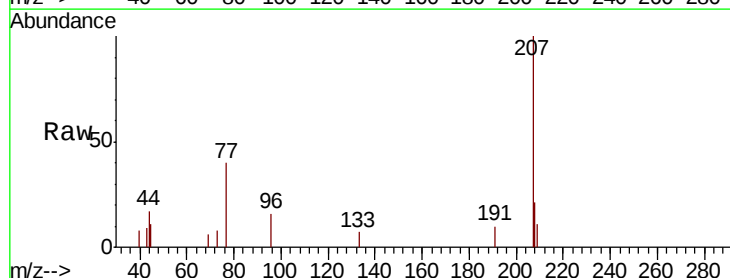
Tgt Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 100.0 57.2 85.8#

39 0.0 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

200

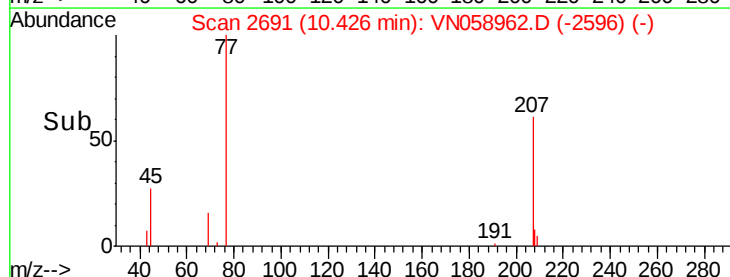
150

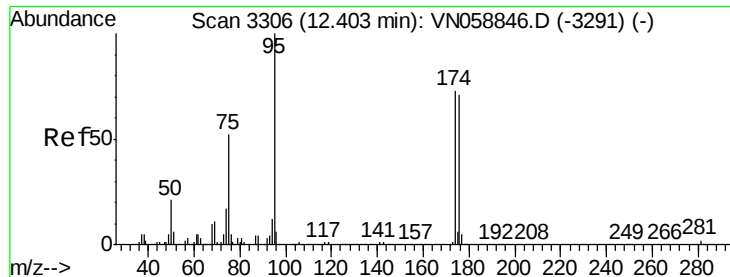
100

50

0

Time-->

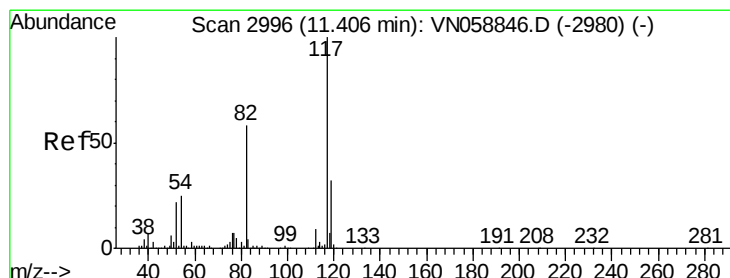
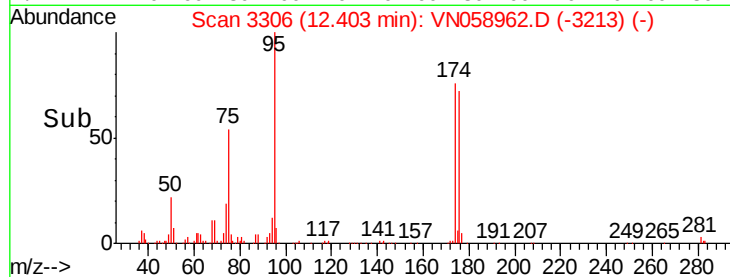
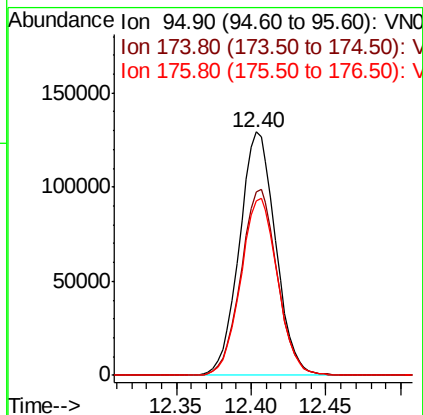
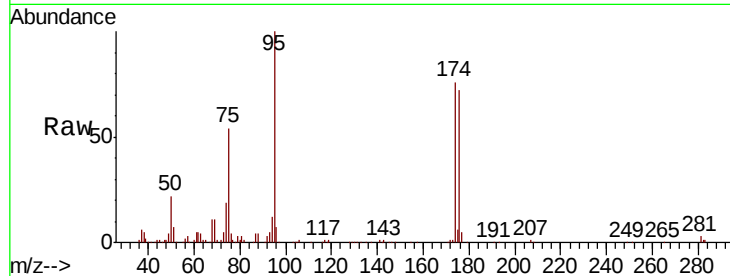




#62
4-Bromofluorobenzene
Concen: 42.817 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058962.D
Acq: 24 Oct 2019 15:34

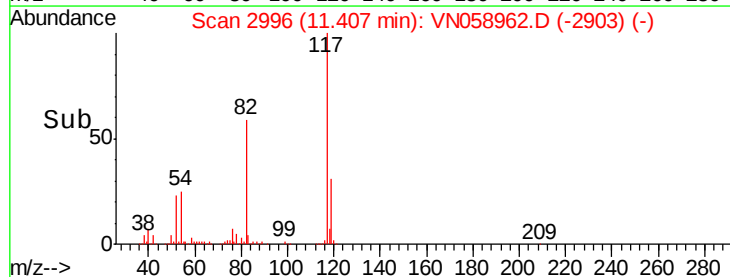
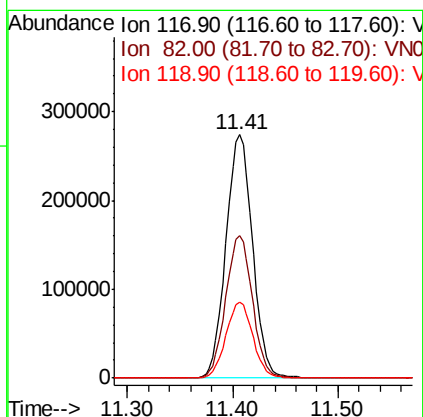
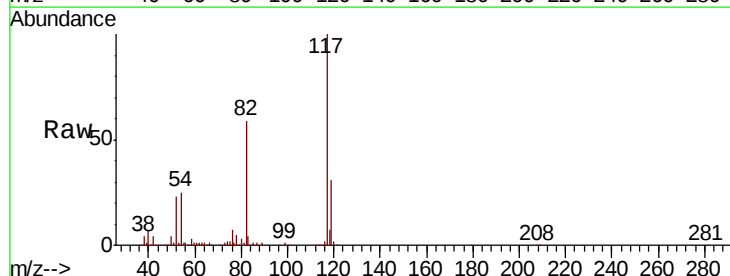
Instrument :
MSVOA_N
ClientSampleId :

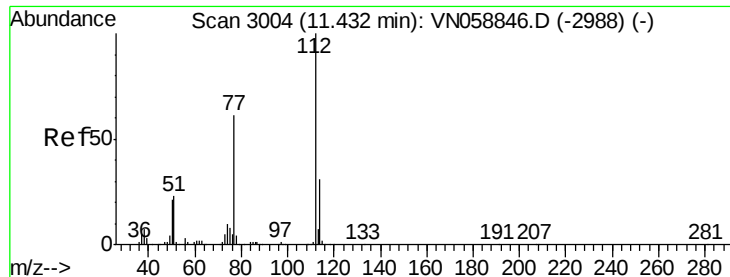
Tot Ion: 95 Resp: 217901
Ion Ratio Lower Upper
95 100
174 76.7 0.0 147.6
176 74.1 0.0 143.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058962.D
Acq: 24 Oct 2019 15:34

Tgt Ion: 117 Resp: 479035
Ion Ratio Lower Upper
117 100
82 58.8 46.6 69.8
119 31.3 25.6 38.4





#65

Chlorobenzene

Concen: 0.302 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.01 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

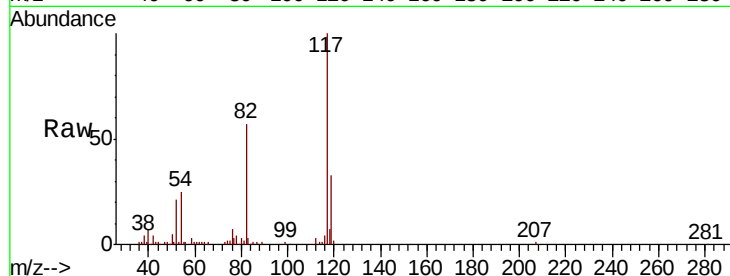
ClientSampled :

Tot Ion:112 Resp: 2941

Ion Ratio Lower Upper

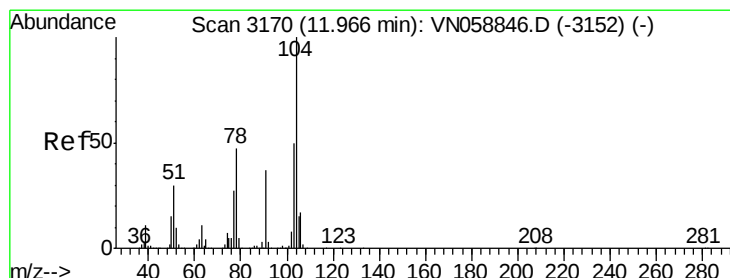
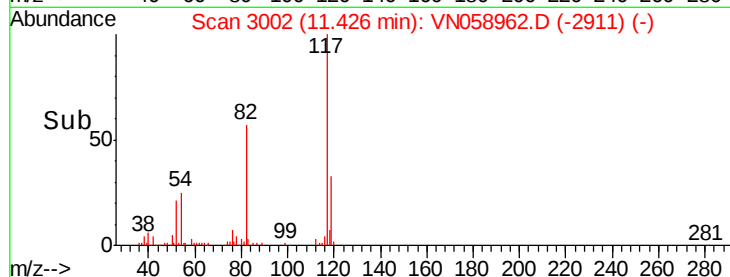
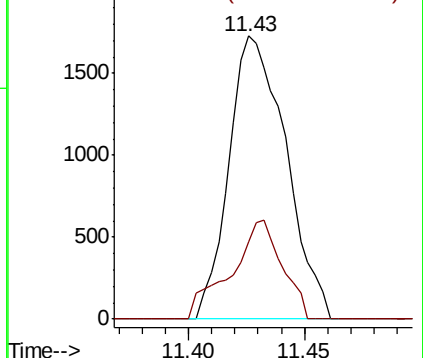
112 100

114 27.4 25.1 37.7



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#70

Styrene

Concen: 1.734 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

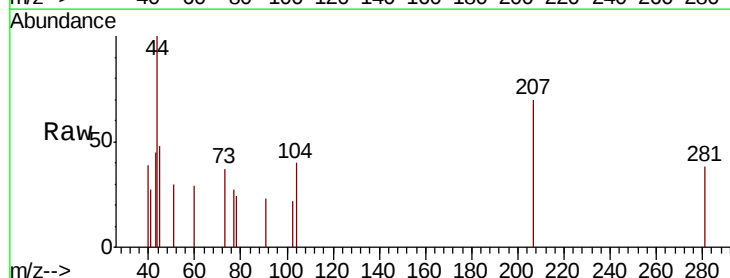
Tgt Ion:104 Resp: 235

Ion Ratio Lower Upper

104 100

78 0.0 42.8 64.2#

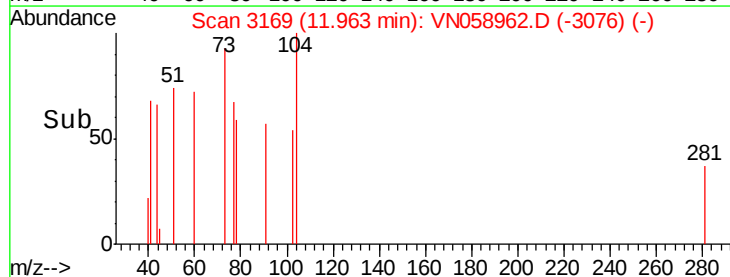
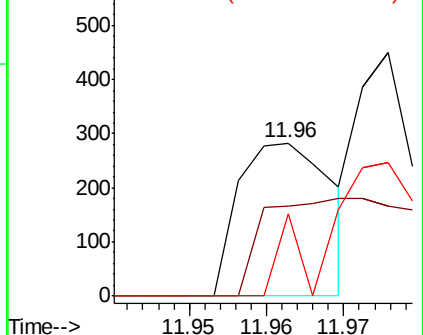
103 0.0 44.3 66.5#

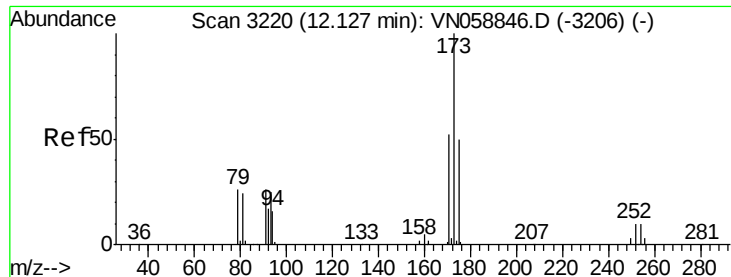


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.472 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

ClientSampleId :

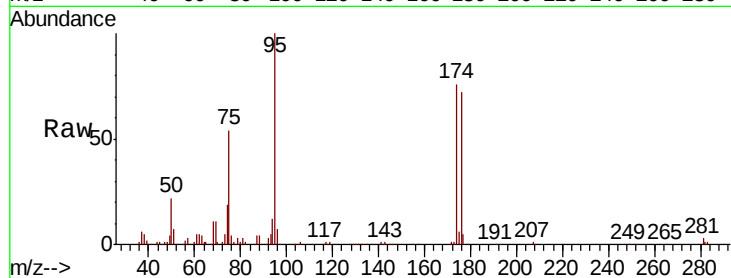
Tot Ion:173 Resp: 1348

Ion Ratio Lower Upper

173 100

175 772.4 24.7 74.1#

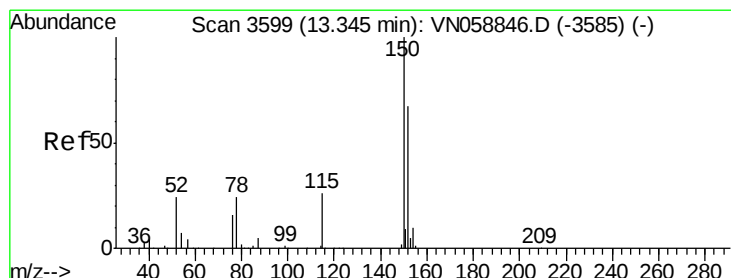
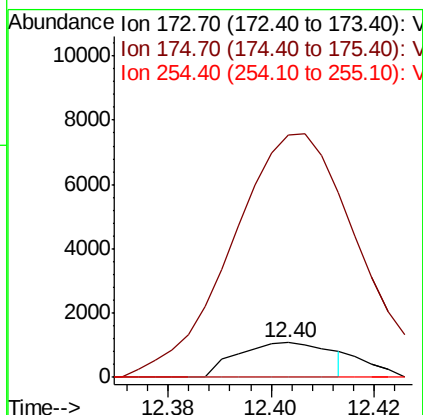
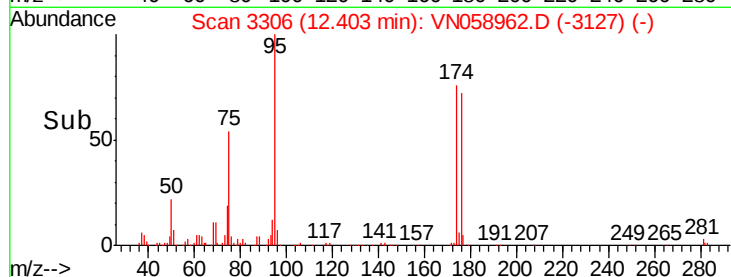
254 0.0 0.0 0.0



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# 3600

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

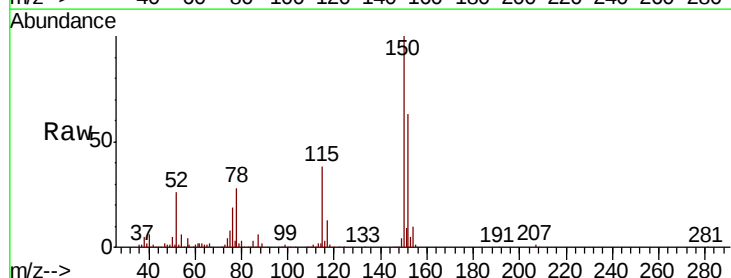
Tgt Ion:152 Resp: 173065

Ion Ratio Lower Upper

152 100

115 59.9 30.5 91.5

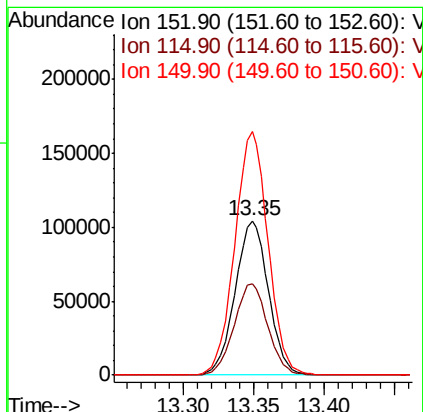
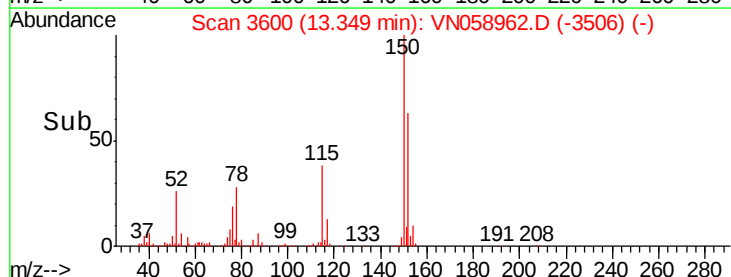
150 157.2 0.0 344.4

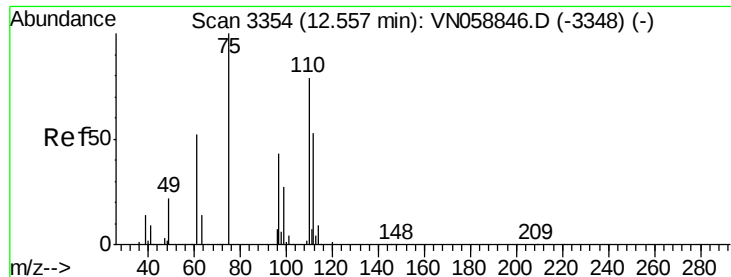


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.035 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

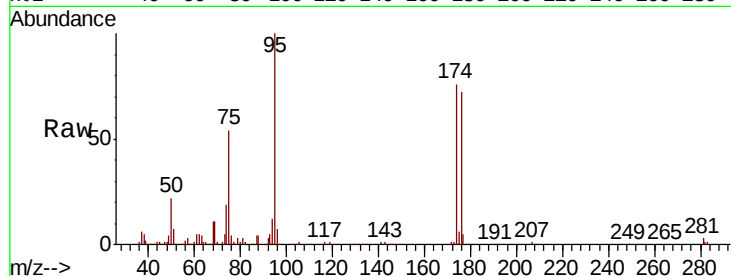
ClientSampleId :

Tot Ion: 75 Resp: 116458

Ion Ratio Lower Upper

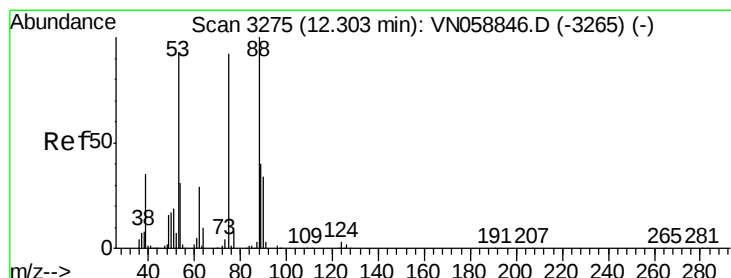
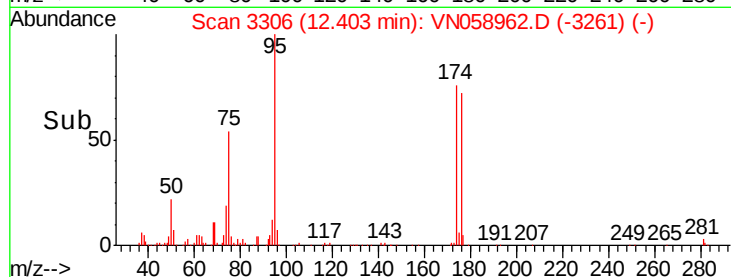
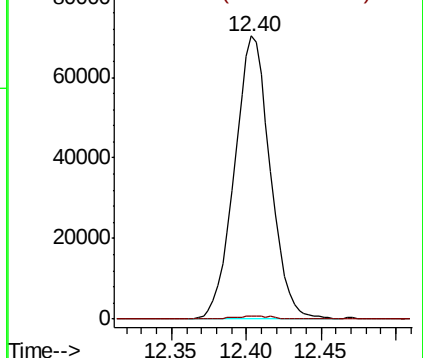
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 75.638 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

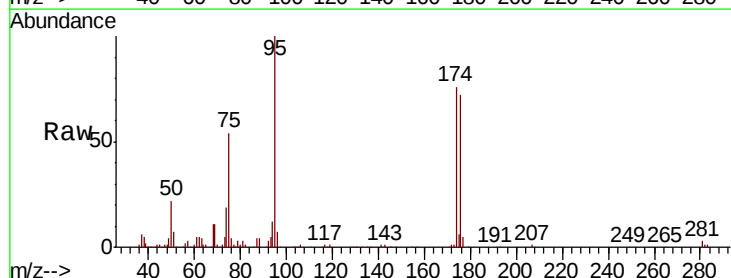
Tgt Ion: 75 Resp: 116458

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

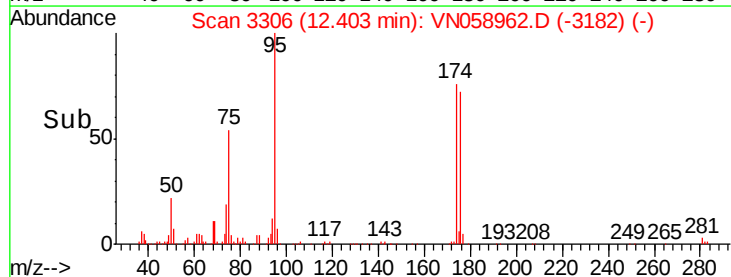
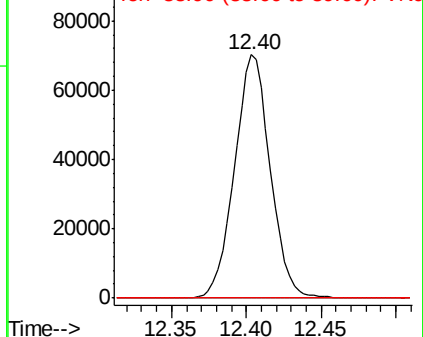
89 0.0 35.4 53.0#

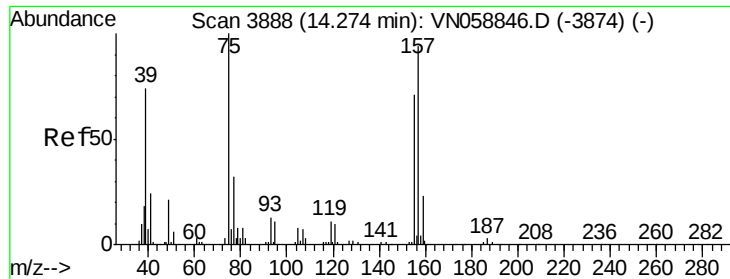


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.389 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

ClientSampleId :

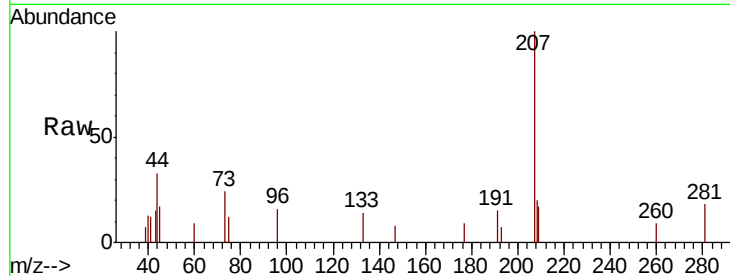
Tot Ion: 75 Resp: 391

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.8#

157 0.0 47.4 142.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3874) (-)

Ion 154.80 (154.50 to 155.50): VN058846.D (-3874) (-)

Ion 156.80 (156.50 to 157.50): VN058846.D (-3874) (-)

14.27

300

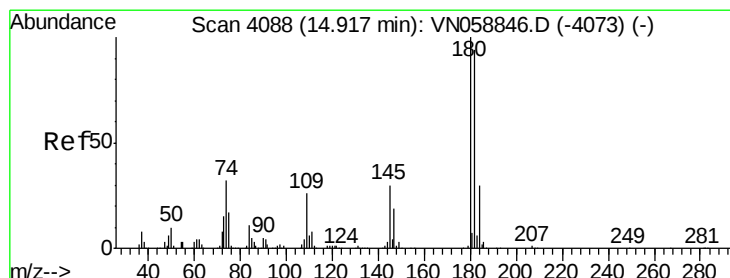
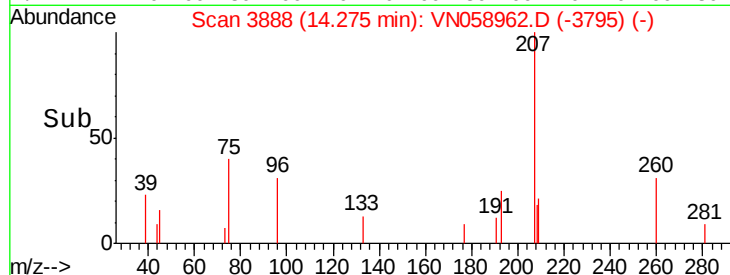
200

100

0

14.26 14.28 14.30

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.955 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

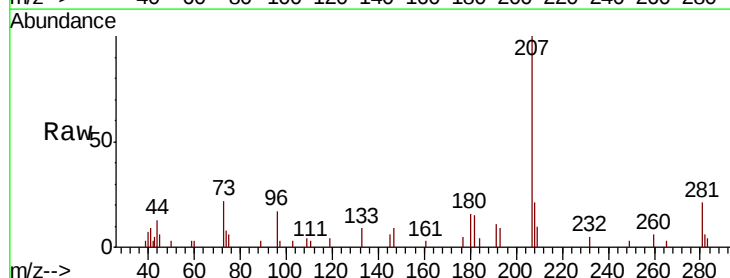
Tgt Ion: 180 Resp: 1578

Ion Ratio Lower Upper

180 100

182 88.8 47.3 142.0

145 28.8 15.3 45.8



Abundance Ion 179.80 (179.50 to 180.50): VN058846.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN058846.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN058846.D (-4073) (-)

14.92

1200

1000

800

600

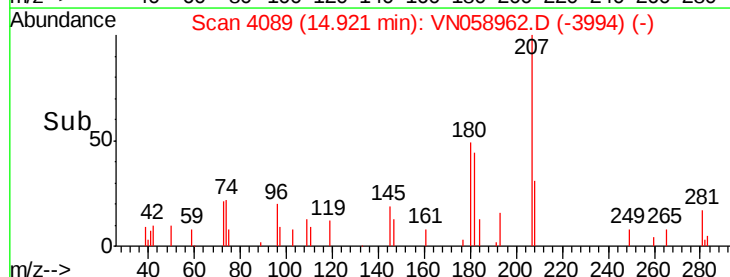
400

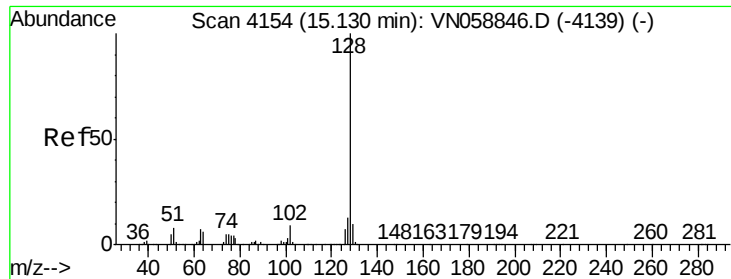
200

0

14.90 14.95

Time-->





#95

Naphthalene

Concen: 2.846 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA_N

ClientSampled :

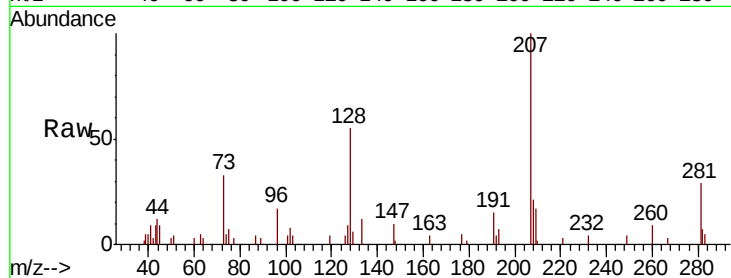
Tot Ion:128 Resp: 6444

Ion Ratio Lower Upper

128 100

127 11.1 10.2 15.2

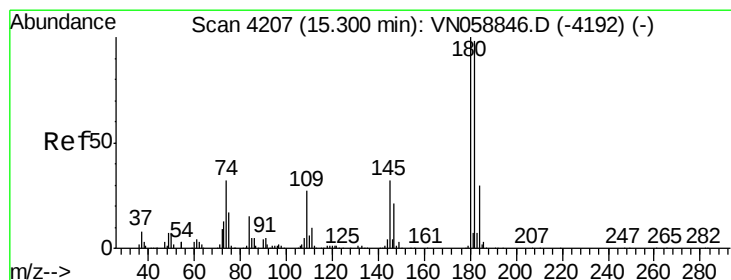
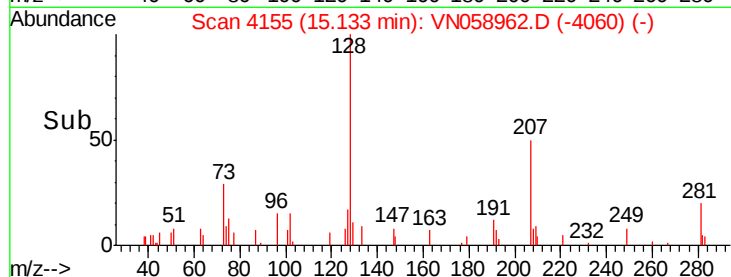
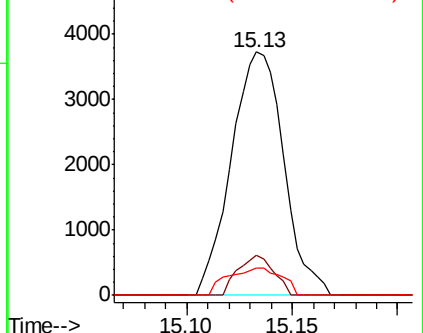
129 11.5 8.4 12.6



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: 3.013 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

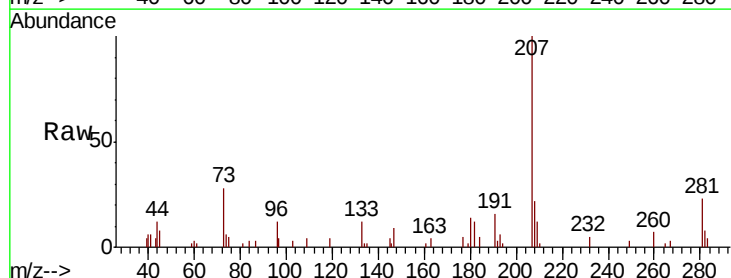
Tgt Ion:180 Resp: 2180

Ion Ratio Lower Upper

180 100

182 80.9 47.9 143.7

145 28.7 15.9 47.7



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

