

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060278.D
 Acq On : 28 Feb 2020 12:48
 Operator : JC/MD
 Sample : L1733-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 29 00:35:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	214680	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	347721	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	320003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149253	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	134066	48.67	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.34%	
35) Dibromofluoromethane	7.56	113	88235	54.67	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.34%	
50) Toluene-d8	10.08	98	424462	51.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.40	95	157802	50.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.92%	

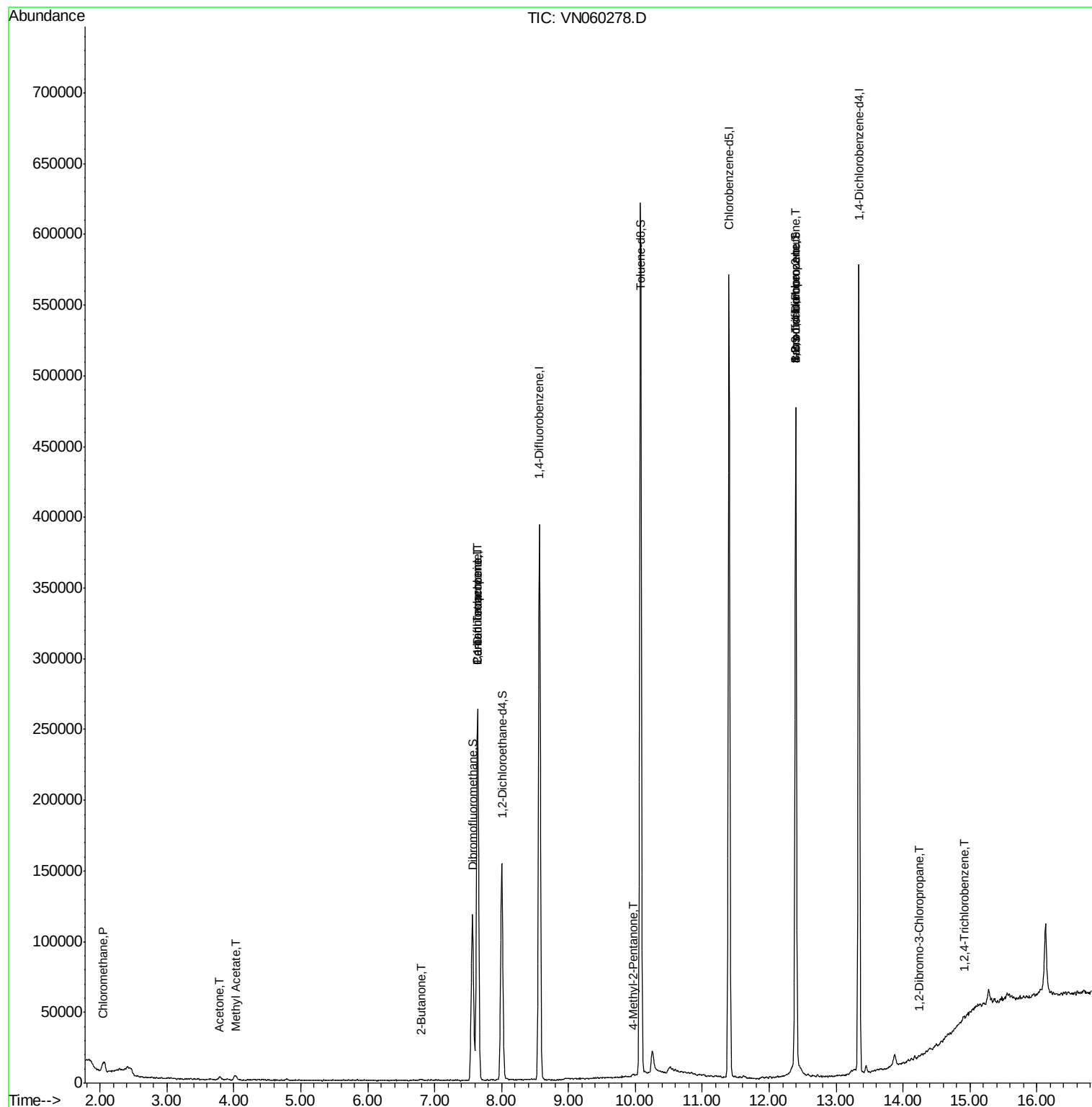
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	715	0.209	ug/l #	52
16) Acetone	3.79	43	3731	4.195	ug/l	93
17) Carbon Disulfide	4.02	76	222	Below Cal	#	75
18) Methyl Acetate	4.02	43	1136	0.383	ug/l #	52
21) trans-1,2-Dichloroethene	4.98	96	136	Below Cal	#	1
25) 2-Butanone	6.81	43	523	0.364	ug/l #	49
31) Cyclohexane	7.64	56	4470	Below Cal	#	10
36) 1,1-Dichloropropene	7.64	75	16994	5.128	ug/l #	50
38) Carbon Tetrachloride	7.64	117	20604	6.386	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	814	0.261	ug/l #	72
71) Bromoform	12.39	173	1015	0.589	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	81949	25.026	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	81949	69.082	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	623	Below Cal	#	42
88) 1,4-Dichlorobenzene	13.35	146	338	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.24	75	445	0.653	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	616	0.292	ug/l #	75
95) Naphthalene	15.13	128	1225	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	494	Below Cal	#	21

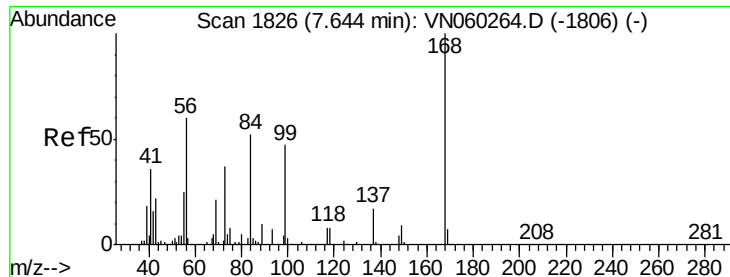
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

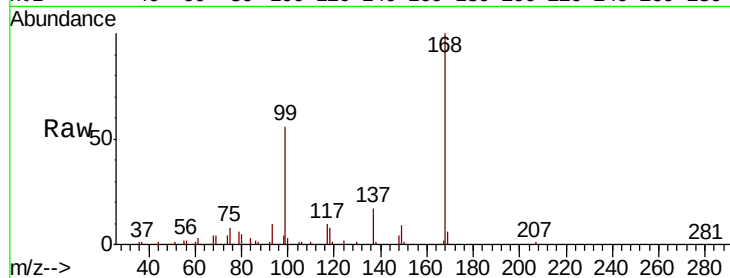
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 214680

Ion Ratio Lower Upper

168 100

99 56.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

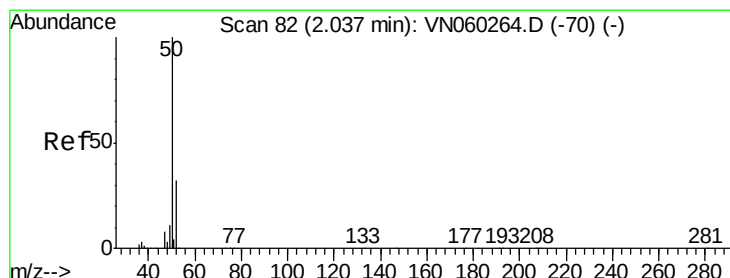
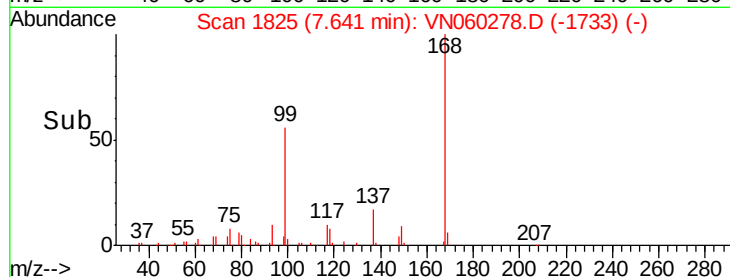
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.209 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060278.D

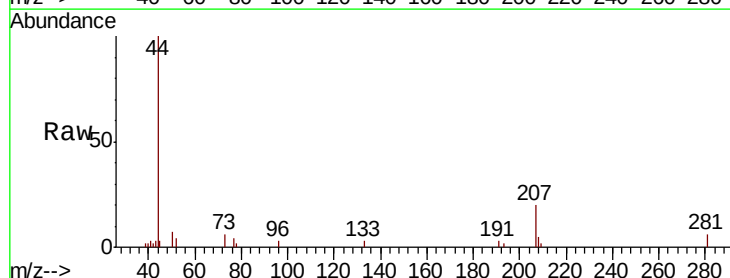
Acq: 28 Feb 2020 12:48

Tgt Ion: 50 Resp: 715

Ion Ratio Lower Upper

50 100

52 58.7 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

600

500

400

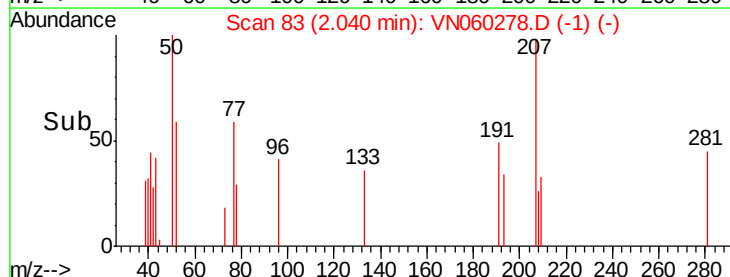
300

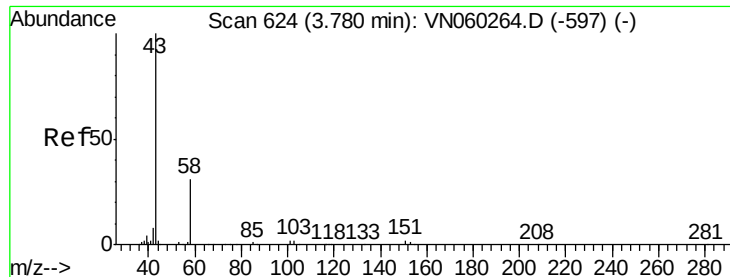
200

100

0

Time-->





#16

Acetone

Concen: 4.195 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

Instrument :

MSVOA_N

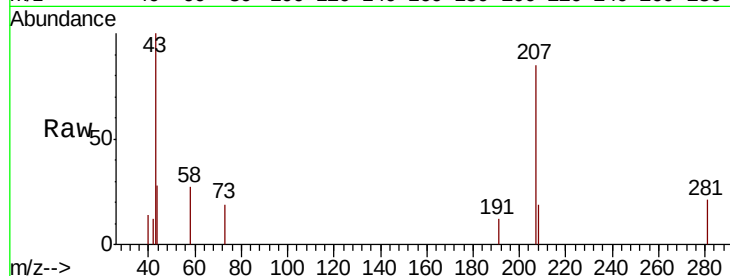
ClientSampleId :

Tot Ion: 43 Resp: 3731

Ion Ratio Lower Upper

43 100

58 26.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)

3.79

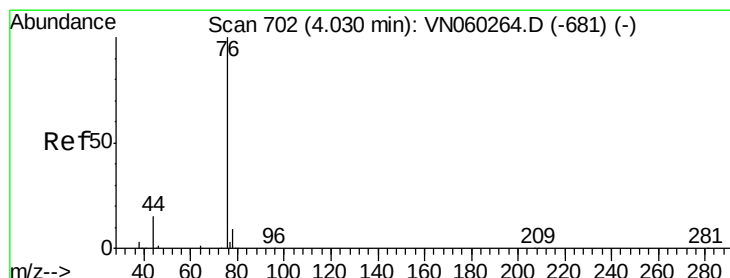
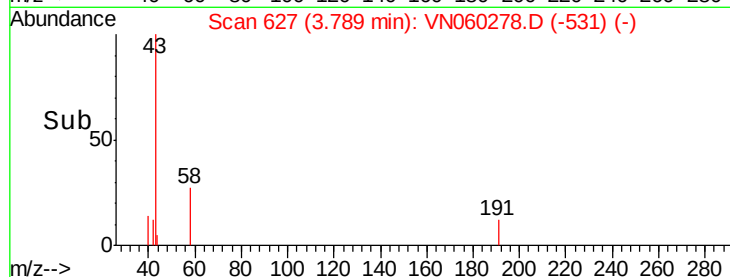
1500

1000

500

0

Time--> 3.70 3.75 3.80 3.85



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN060278.D

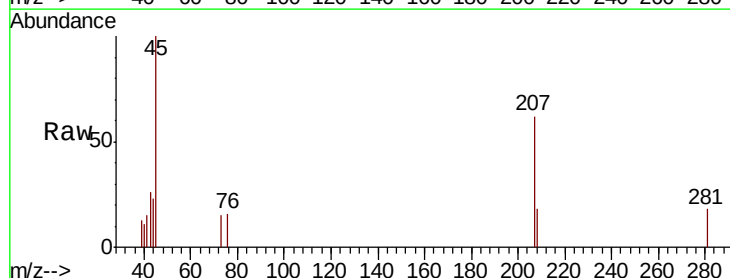
Acq: 28 Feb 2020 12:48

Tgt Ion: 76 Resp: 222

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)

4.02

300

250

200

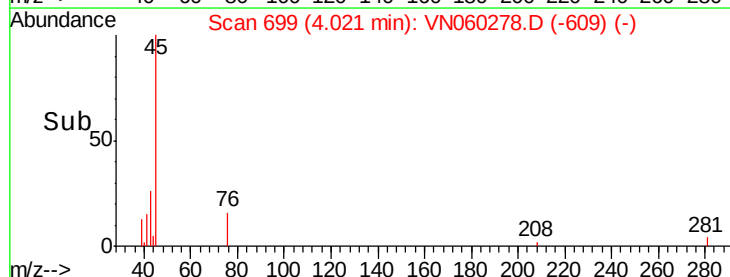
150

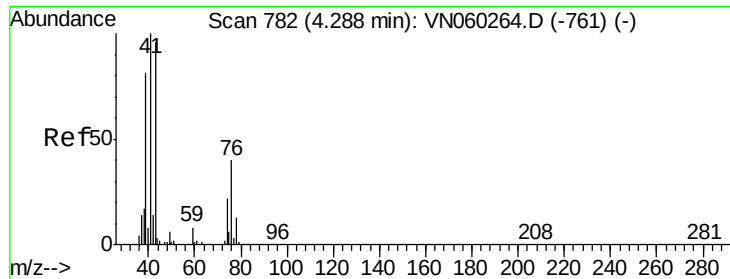
100

50

0

Time--> 4.00 4.01 4.02 4.03

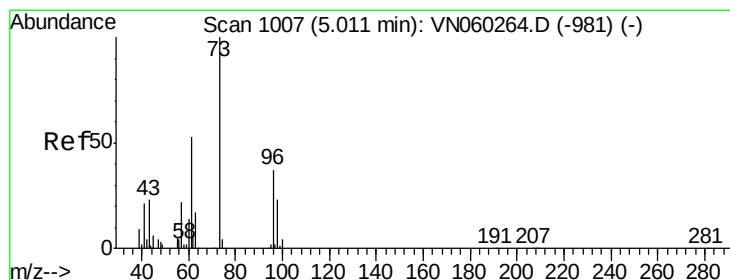
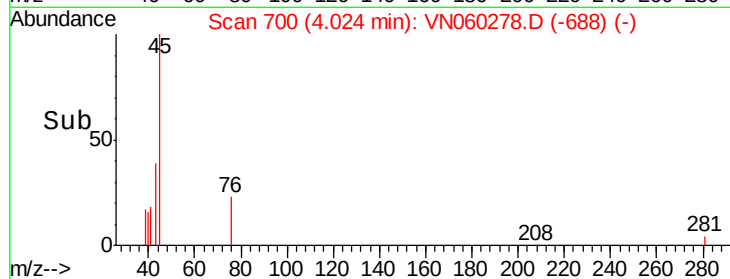
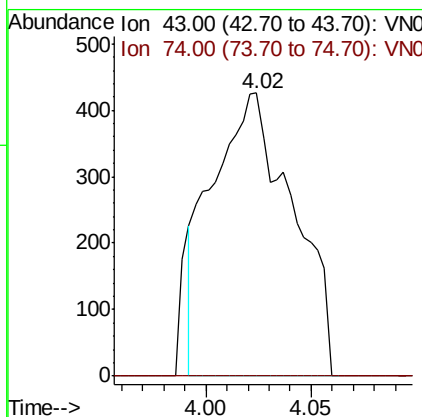
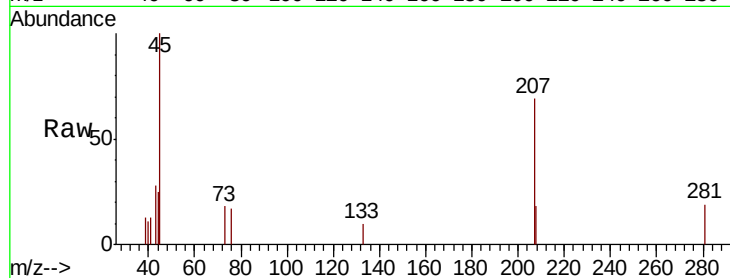




#18
Methyl Acetate
Concen: 0.383 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.26 min
Lab File: VN060278.D
Acq: 28 Feb 2020 12:48

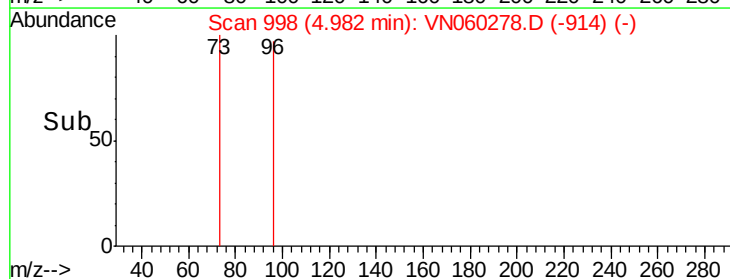
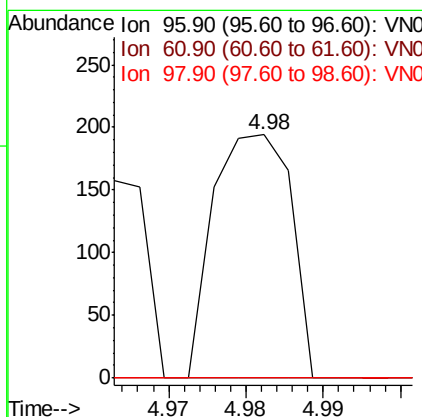
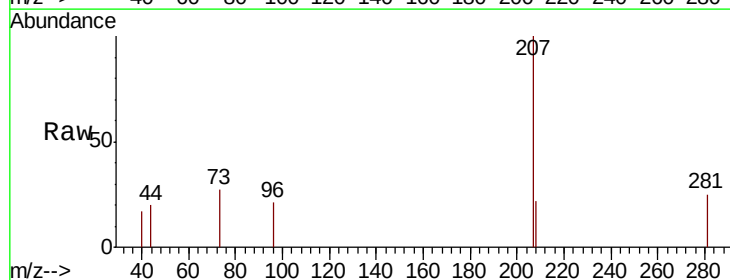
Instrument :
MSVOA_N
ClientSampled :

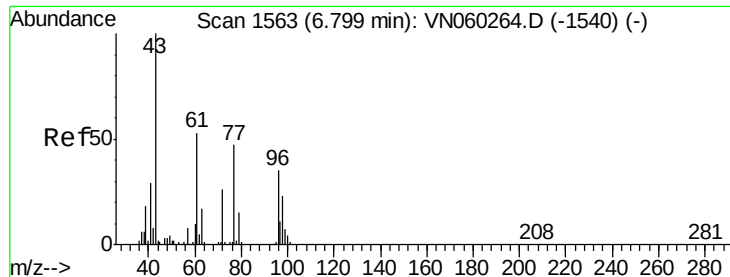
Tot Ion: 43 Resp: 1136
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 4.98 min Scan# 998
Delta R.T. -0.03 min
Lab File: VN060278.D
Acq: 28 Feb 2020 12:48

Tgt Ion: 96 Resp: 136
Ion Ratio Lower Upper
96 100
61 0.0 113.8 170.8#
98 0.0 48.8 73.2#

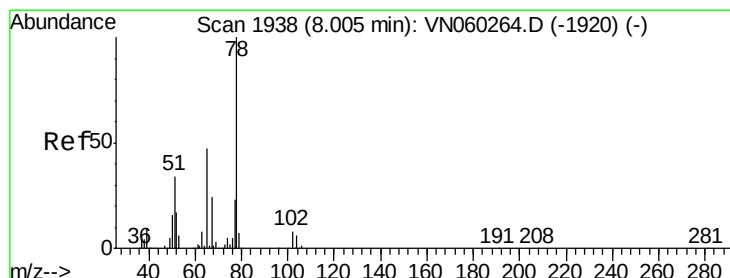
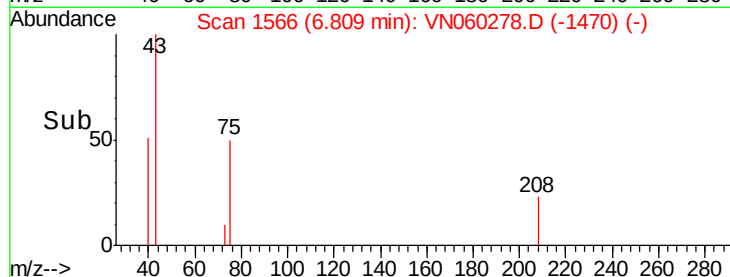
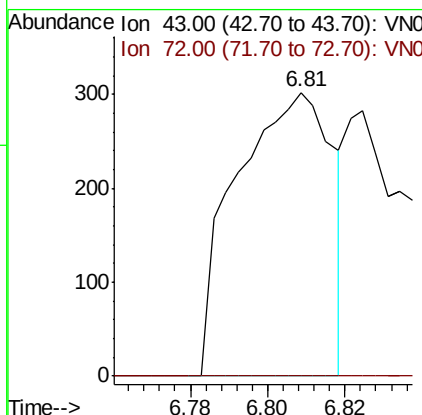
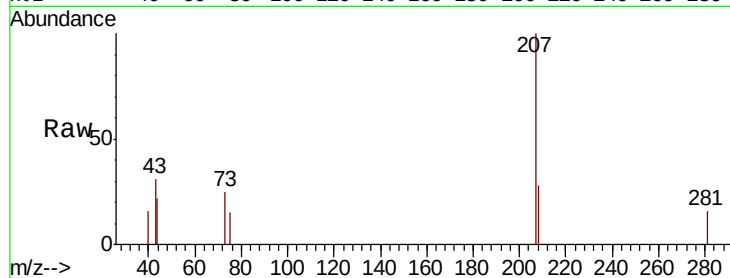




#25
2-Butanone
Concen: 0.364 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060278.D
Acq: 28 Feb 2020 12:48

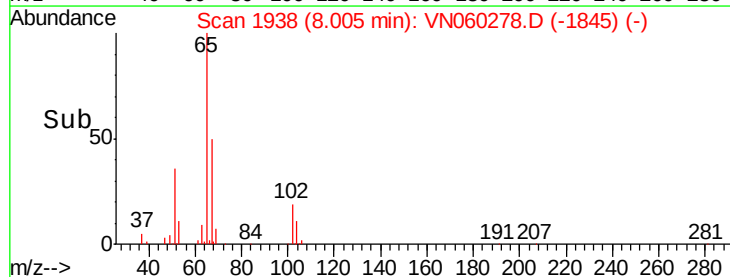
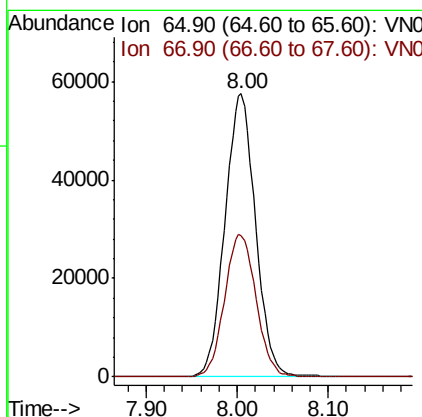
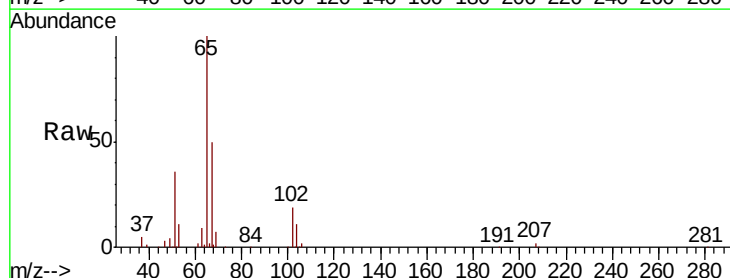
Instrument :
MSVOA_N
ClientSampleId :

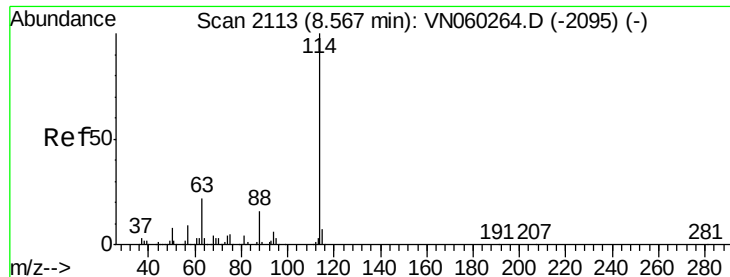
Tot Ion: 43 Resp: 523
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 48.674 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060278.D
Acq: 28 Feb 2020 12:48

Tgt Ion: 65 Resp: 134066
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.8

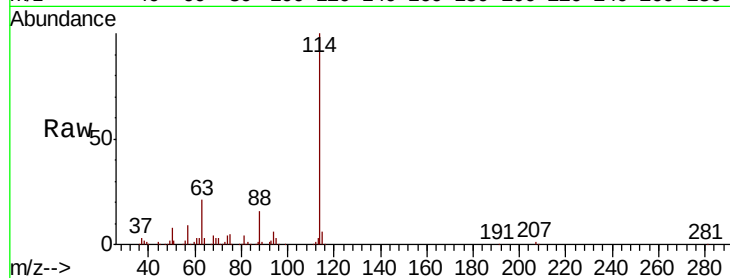




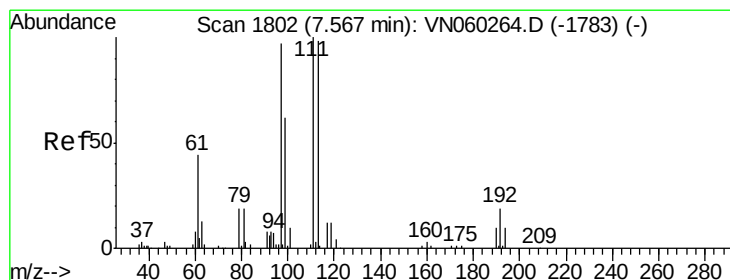
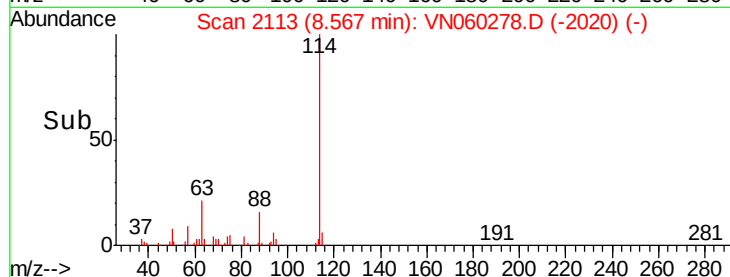
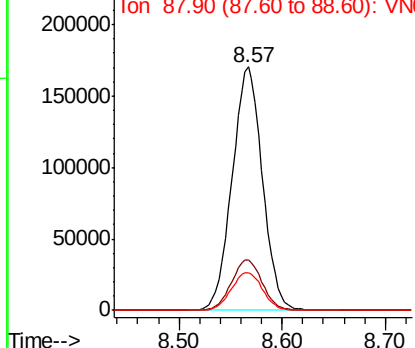
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060278.D
 Acq: 28 Feb 2020 12:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 347721
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 43.2
 88 15.7 0.0 31.6

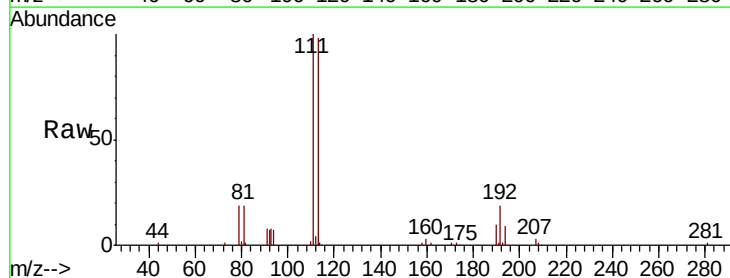


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

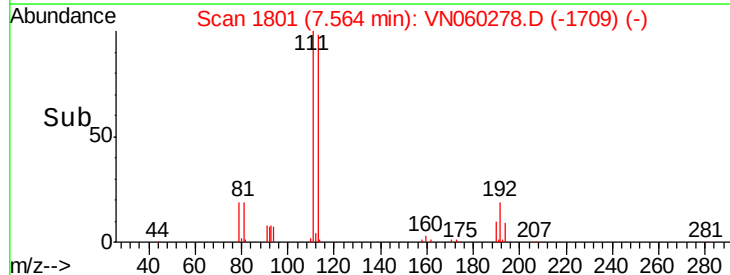
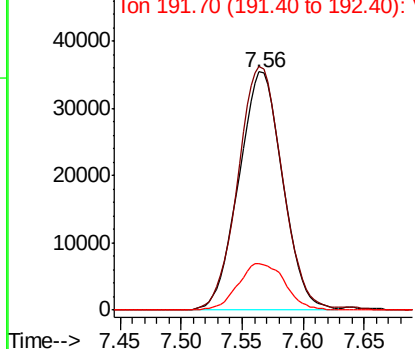


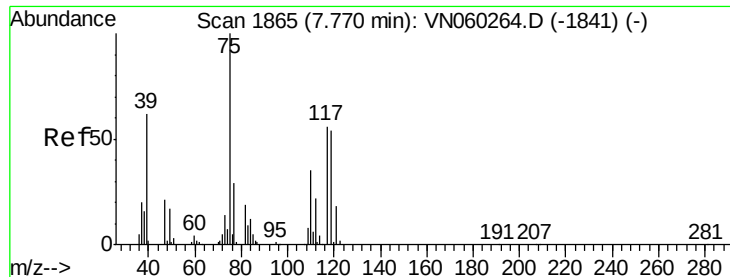
#35
 Dibromofluoromethane
 Concen: 54.668 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060278.D
 Acq: 28 Feb 2020 12:48

Tgt Ion:113 Resp: 88235
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.4 123.6
 192 20.9 16.2 24.2



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: 5.128 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

Instrument :

MSVOA_N

ClientSampleId :

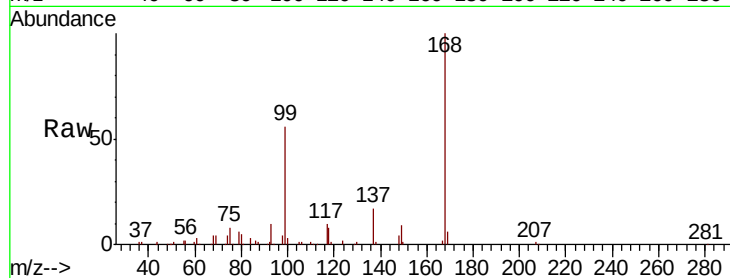
Tot Ion: 75 Resp: 16994

Ion Ratio Lower Upper

75 100

110 8.4 17.3 52.0#

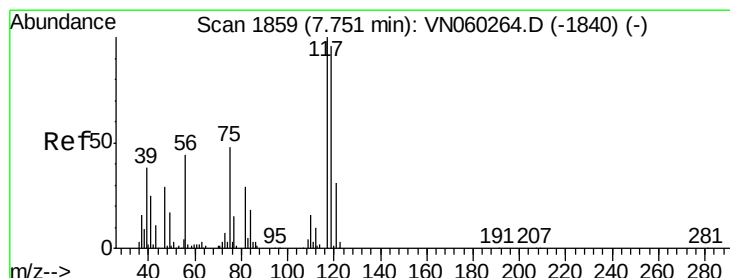
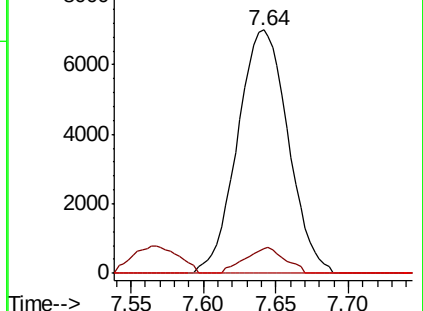
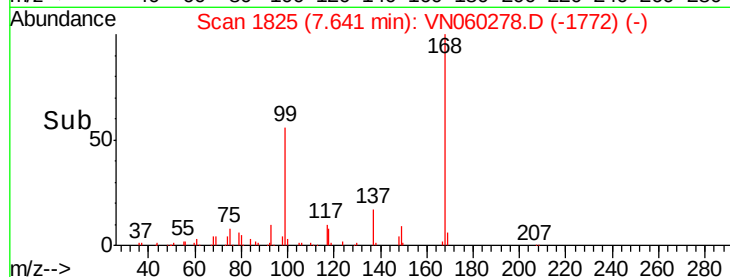
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060278.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060278.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060278.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.386 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

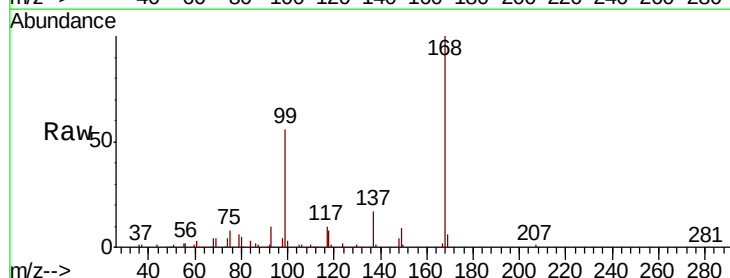
Tgt Ion: 117 Resp: 20604

Ion Ratio Lower Upper

117 100

119 5.5 76.7 115.1#

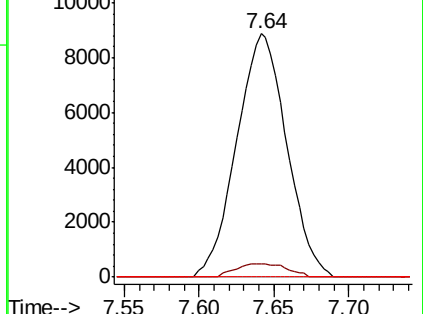
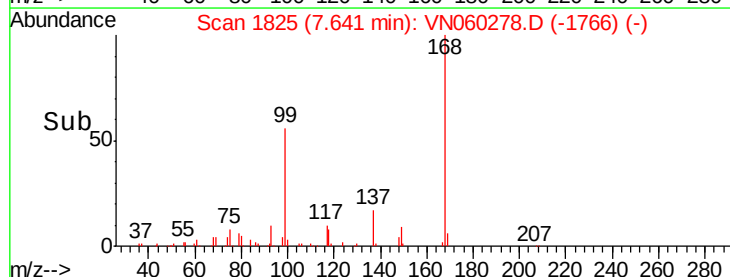
121 0.0 24.5 36.7#

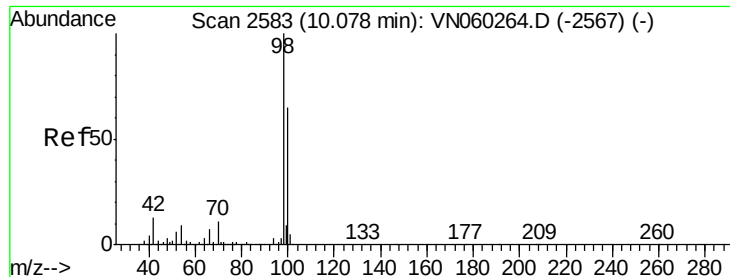


Abundance Ion 116.80 (116.50 to 117.50): VN060278.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060278.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060278.D (-1766) (-)





#50

Toluene-d8

Concen: 51.962 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

Instrument :

MSVOA_N

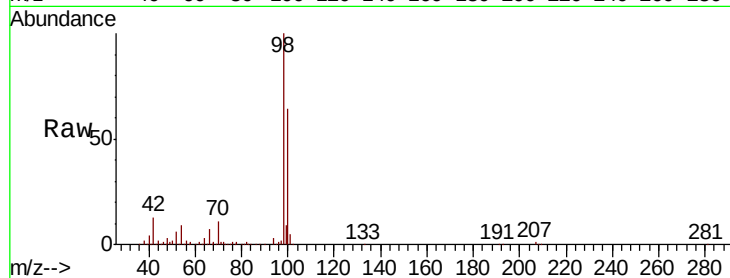
ClientSampleId :

Tot Ion: 98 Resp: 424462

Ion Ratio Lower Upper

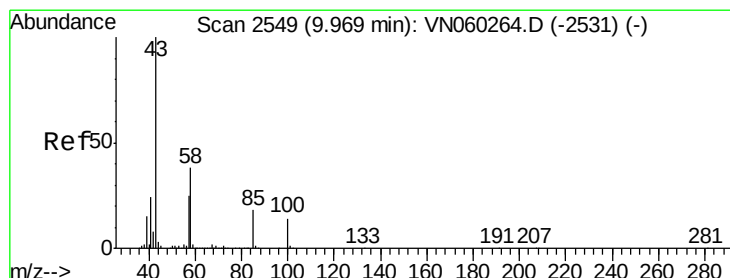
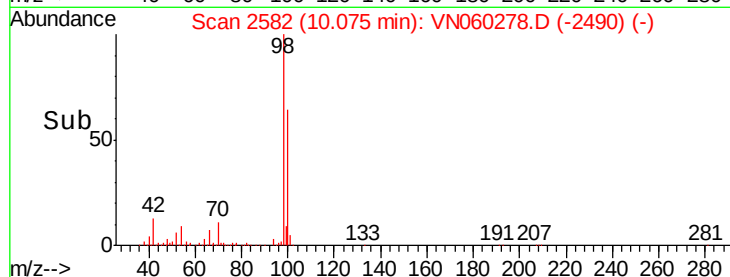
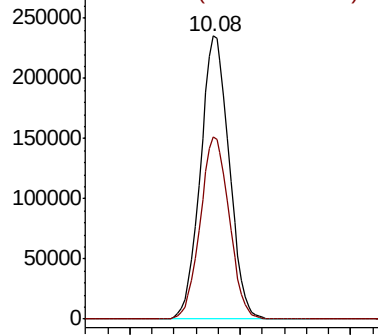
98 100

100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.261 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060278.D

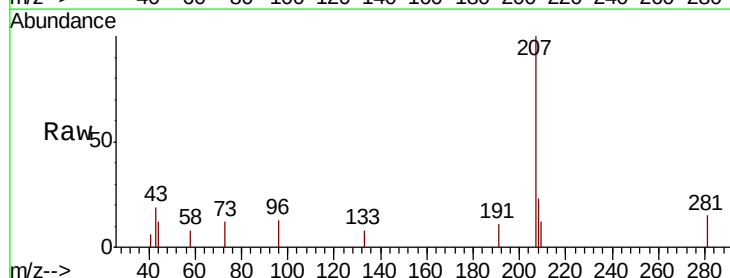
Acq: 28 Feb 2020 12:48

Tgt Ion: 43 Resp: 814

Ion Ratio Lower Upper

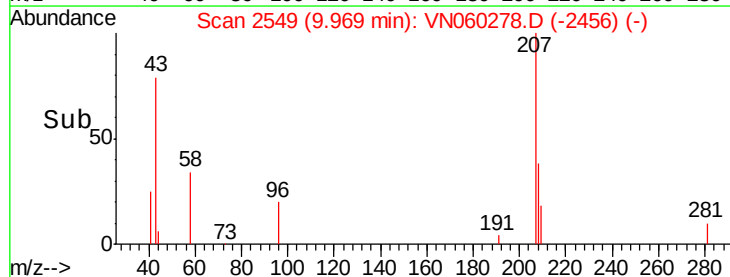
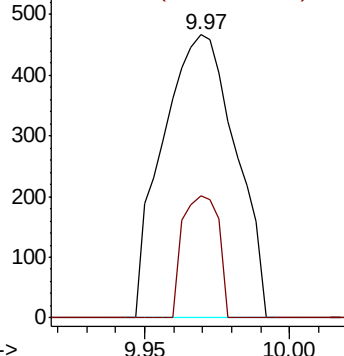
43 100

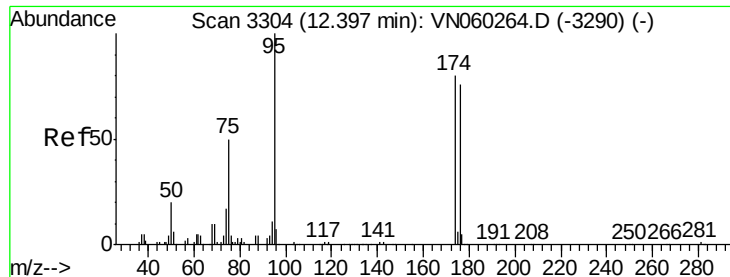
58 21.6 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

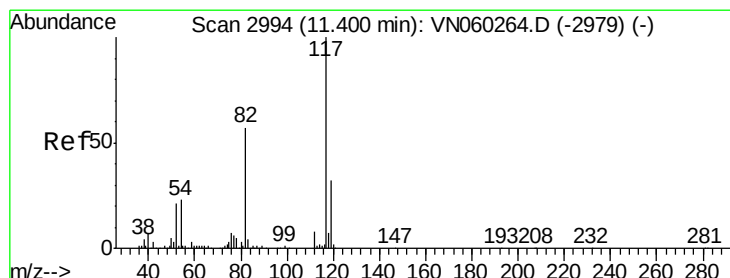
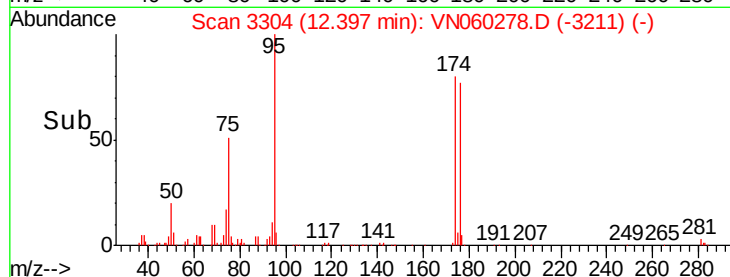
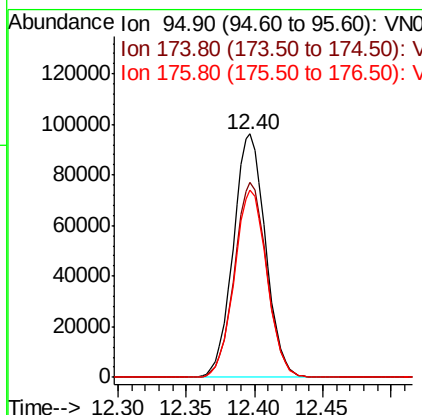
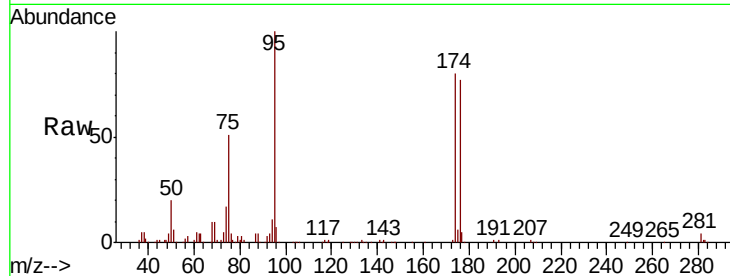




#62
4-Bromofluorobenzene
Concen: 50.961 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060278.D
Acq: 28 Feb 2020 12:48

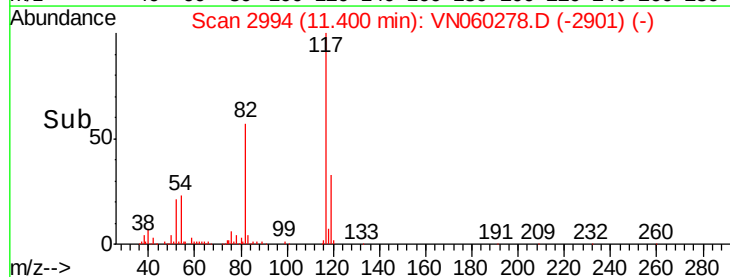
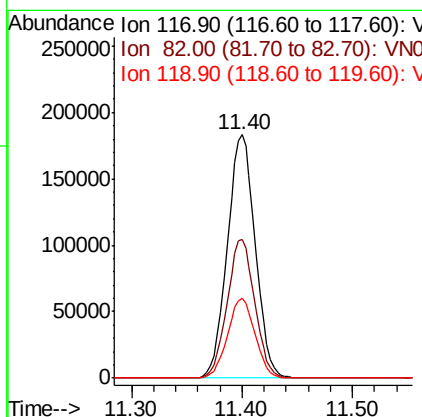
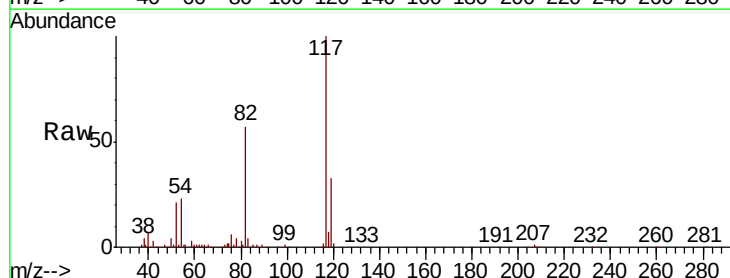
Instrument :
MSVOA_N
ClientSampleId :

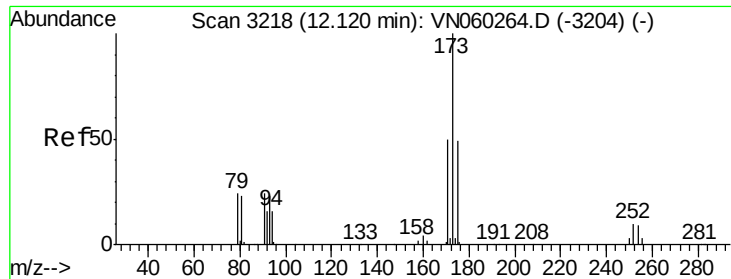
Tot Ion: 95 Resp: 157802
Ion Ratio Lower Upper
95 100
174 80.3 0.0 159.2
176 77.7 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060278.D
Acq: 28 Feb 2020 12:48

Tgt Ion: 117 Resp: 320003
Ion Ratio Lower Upper
117 100
82 57.0 45.8 68.6
119 32.6 25.8 38.8





#71

Bromoform

Concen: 0.589 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

Instrument :

MSVOA_N

ClientSampled :

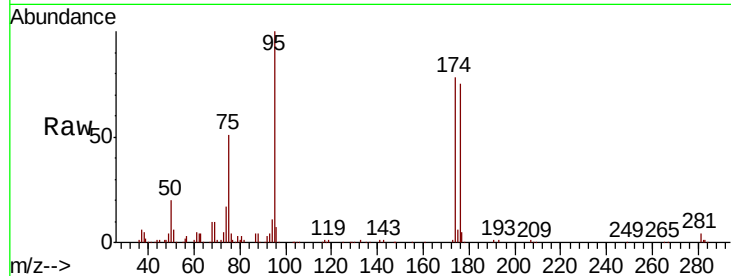
Tot Ion:173 Resp: 1015

Ion Ratio Lower Upper

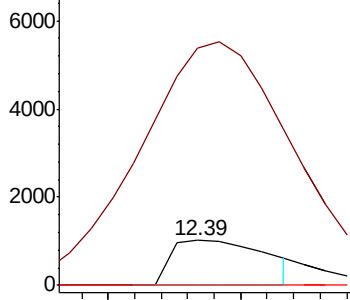
173 100

175 759.6 24.1 72.2#

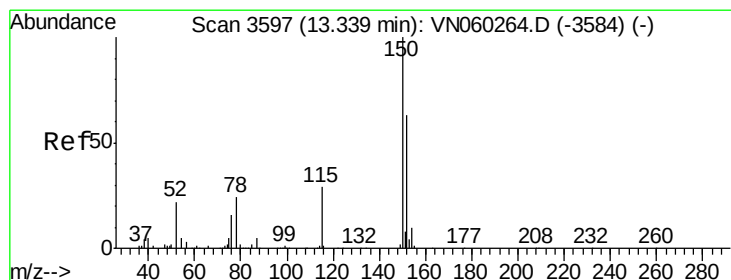
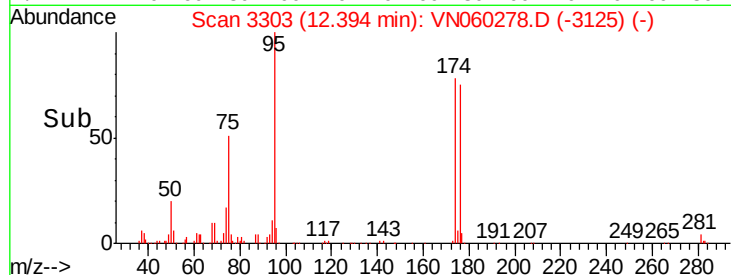
254 0.0 0.0 0.0



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



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

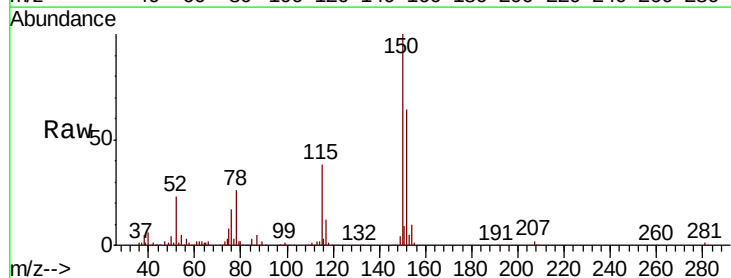
Tgt Ion:152 Resp: 149253

Ion Ratio Lower Upper

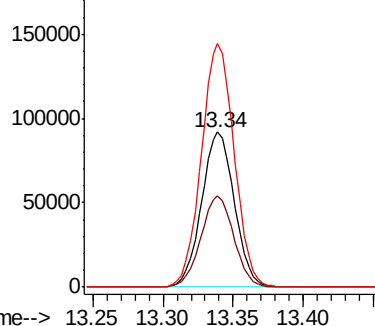
152 100

115 59.2 30.0 90.0

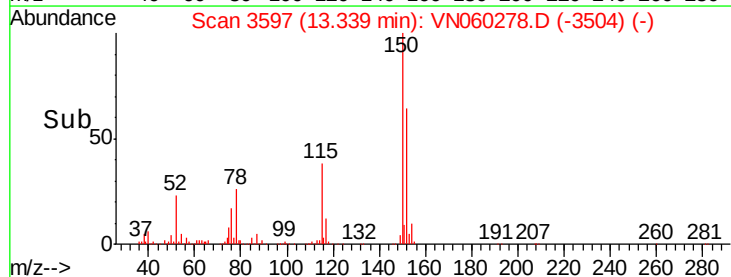
150 157.3 0.0 349.6

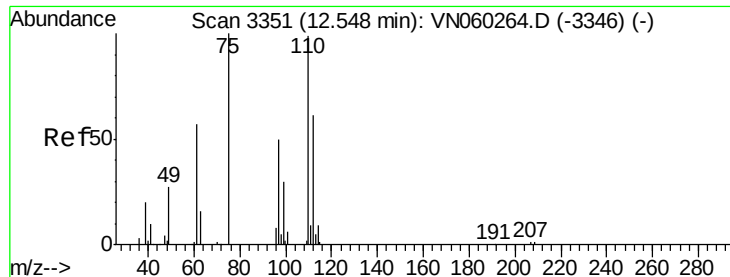


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#76

1,2,3-Trichloropropane

Concen: 25.026 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

Instrument :

MSVOA_N

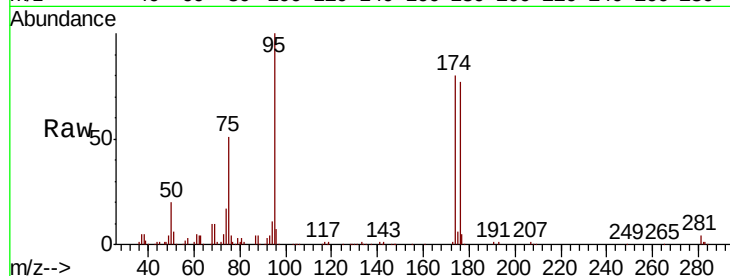
ClientSampled :

Tot Ion: 75 Resp: 81949

Ion Ratio Lower Upper

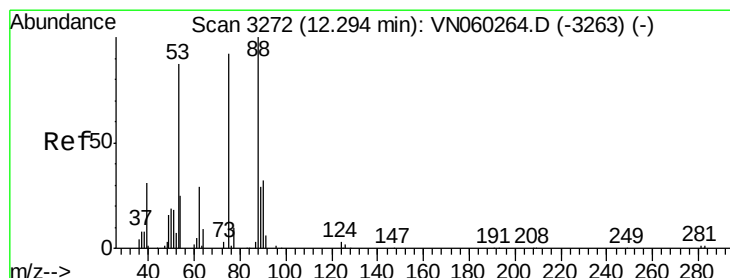
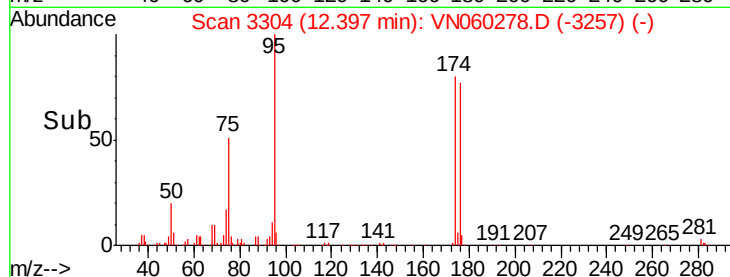
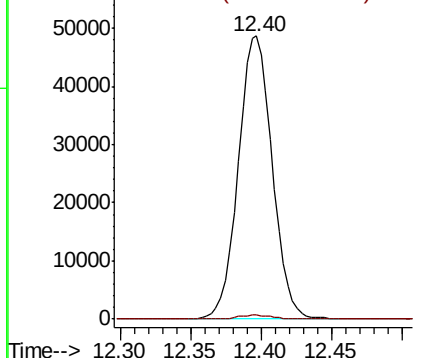
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 69.082 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

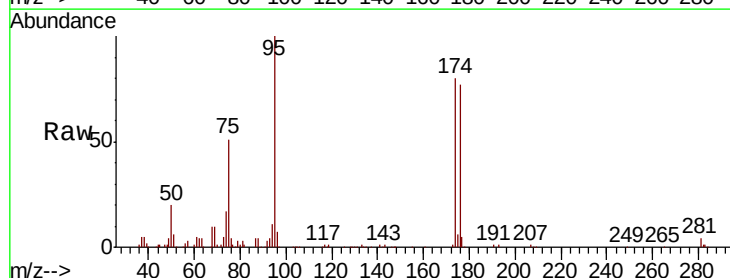
Tgt Ion: 75 Resp: 81949

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

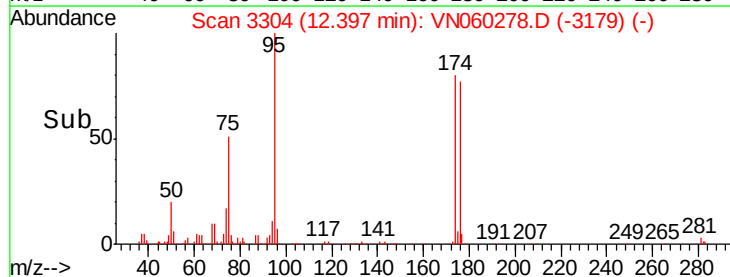
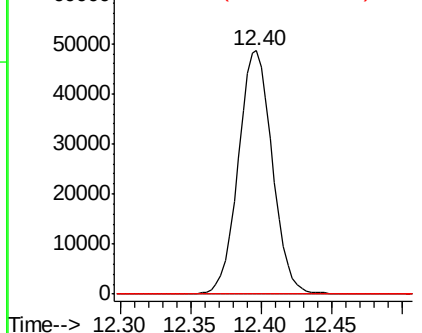
89 0.1 57.1 85.7#

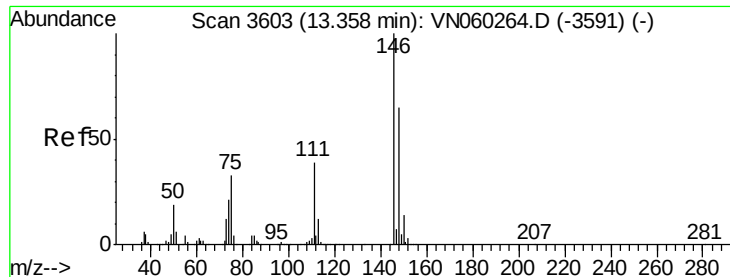


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

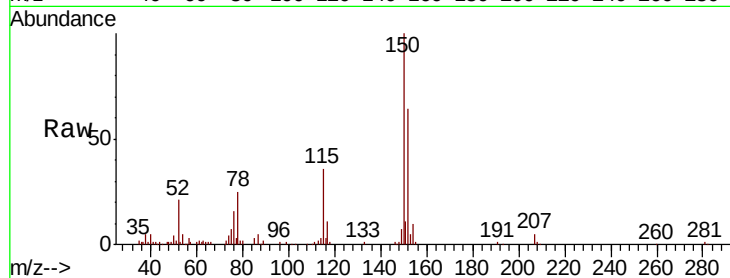




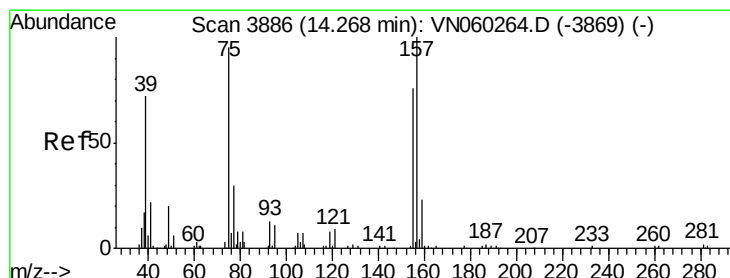
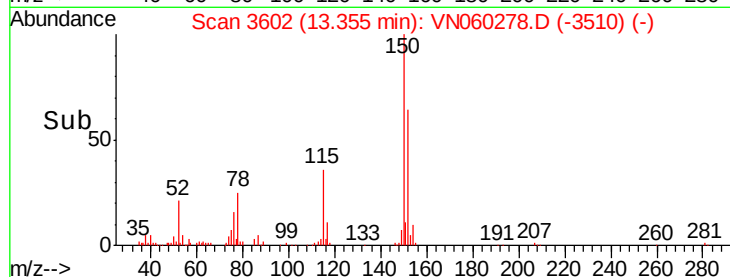
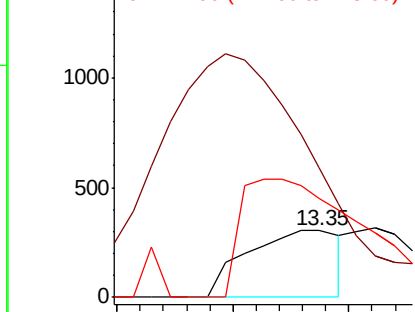
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.35 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN060278.D
 Acq: 28 Feb 2020 12:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 338
 Ion Ratio Lower Upper
 146 100
 111 607.1 19.8 59.4#
 148 226.6 32.3 96.9#

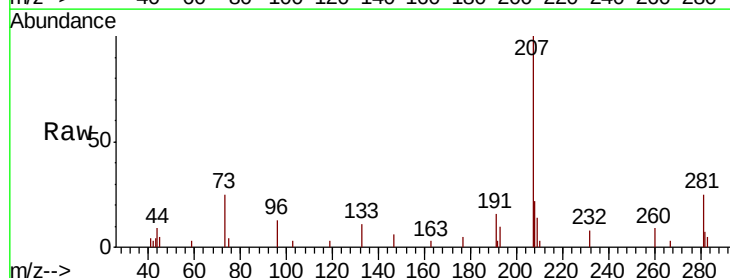


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

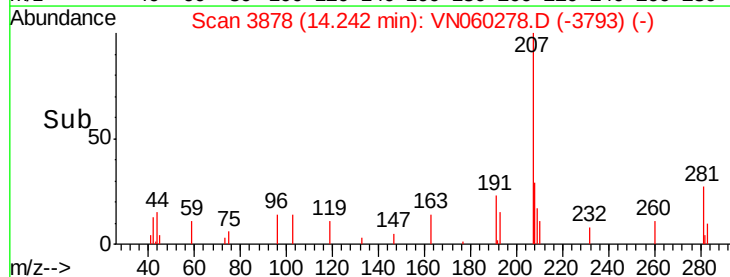
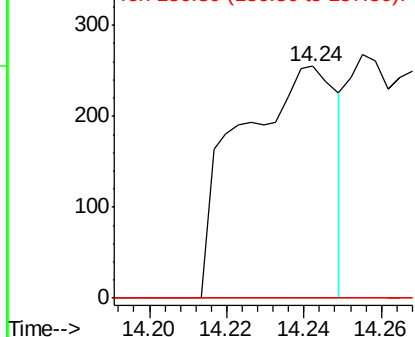


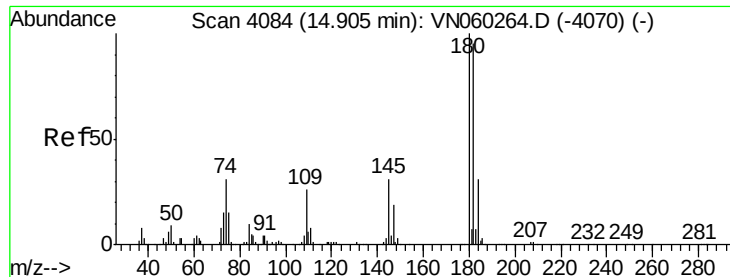
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.653 ug/l
 RT: 14.24 min Scan# 3878
 Delta R.T. -0.03 min
 Lab File: VN060278.D
 Acq: 28 Feb 2020 12:48

Tgt Ion: 75 Resp: 445
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.2#
 157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.292 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060278.D

Acq: 28 Feb 2020 12:48

Instrument :

MSVOA_N

ClientSampleId :

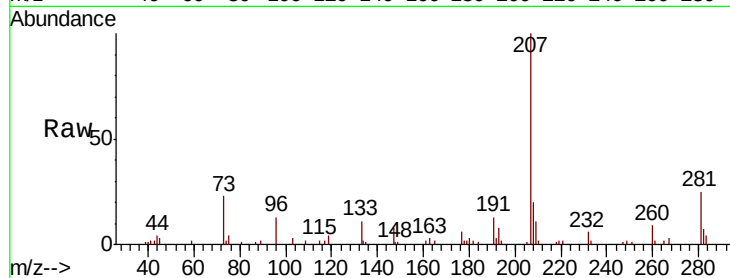
Tot Ion:180 Resp: 616

Ion Ratio Lower Upper

180 100

182 81.2 47.8 143.3

145 0.0 15.4 46.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

