

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060294.D
 Acq On : 28 Feb 2020 18:50
 Operator : JC/MD
 Sample : L1719-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 29 00:40:13 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	205025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	321746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	154728	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	131074	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
35) Dibromofluoromethane	7.56	113	93916	60.33	ug/l	0.00
Spiked Amount			Recovery	=	120.66%	
50) Toluene-d8	10.08	98	417736	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
62) 4-Bromofluorobenzene	12.39	95	159161	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	

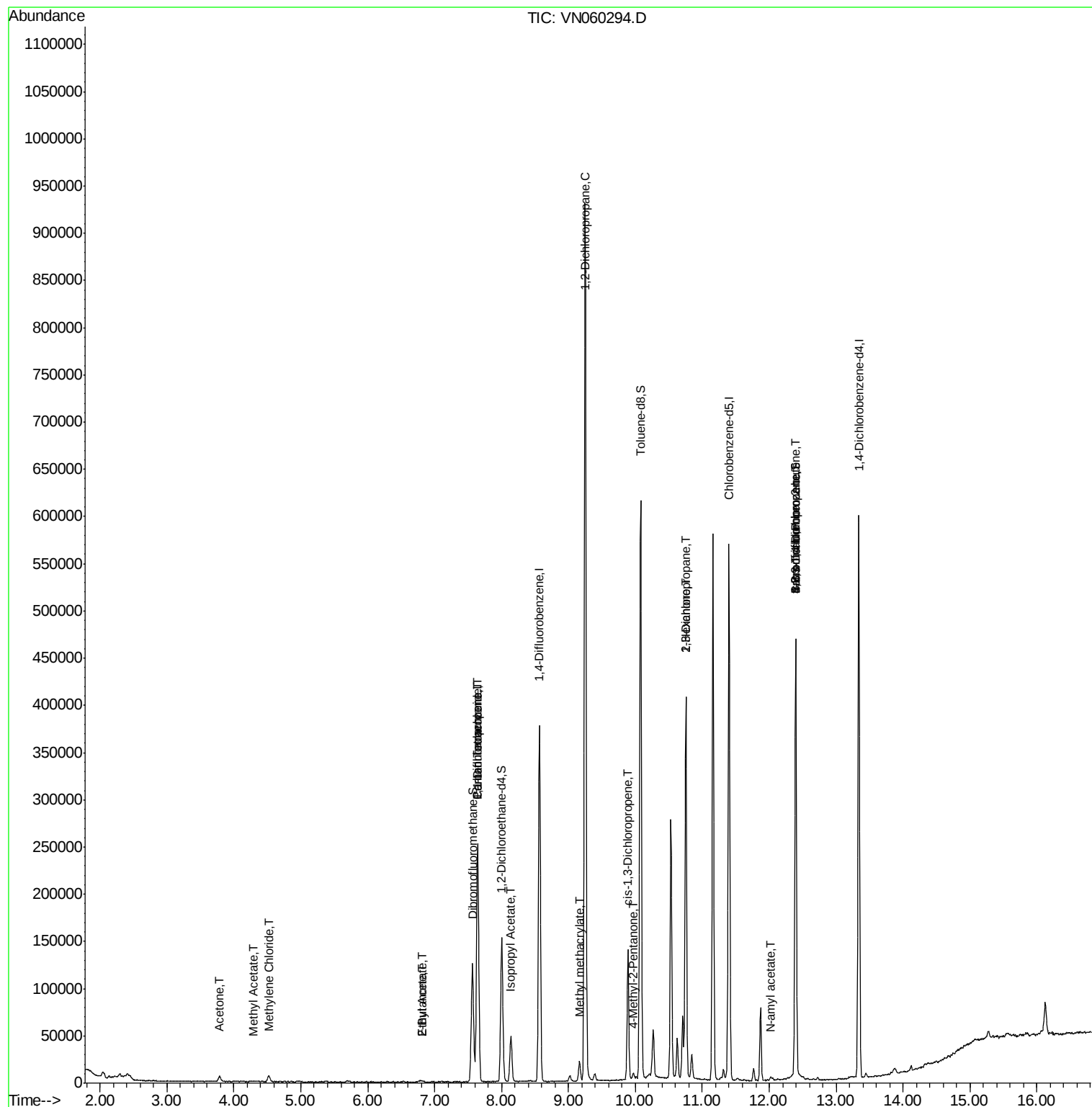
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.71	96	30	Below Cal	#	1
16) Acetone	3.79	43	10008	11.781	ug/l	99
17) Carbon Disulfide	4.03	76	1712	Below Cal	#	75
18) Methyl Acetate	4.29	43	842	0.297	ug/l	59
20) Methylene Chloride	4.52	84	4958	2.125	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	134	Below Cal	#	1
25) 2-Butanone	6.81	43	2000	1.458	ug/l	49
31) Cyclohexane	7.64	56	4151	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15407	4.820	ug/l	50
37) Ethyl Acetate	6.81	43	2000	0.661	ug/l	68
38) Carbon Tetrachloride	7.64	117	19971	6.417	ug/l	16
43) Isopropyl Acetate	8.14	43	57438	10.840	ug/l	90
45) 1,2-Dichloropropane	9.25	63	1096	0.451	ug/l	44
48) Methyl methacrylate	9.16	41	3032	1.255	ug/l	13
51) 4-Methyl-2-Pentanone	9.97	43	4772	1.588	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	24557	6.025	ug/l	59
57) 1,3-Dichloropropane	10.75	76	4238	1.106	ug/l	42
59) 2-Hexanone	10.75	43	57626	26.125	ug/l	52
71) Bromoform	12.40	173	450	0.260	ug/l	1
74) N-amyl acetate	12.02	43	3197	0.638	ug/l	44
76) 1,2,3-Trichloropropane	12.39	75	82371	24.264	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.39	75	82371	66.981	ug/l	8
87) 1,3-Dichlorobenzene	13.27	146	61	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	91	Below Cal	#	1
95) Naphthalene	15.13	128	258	Below Cal	#	69

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

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QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

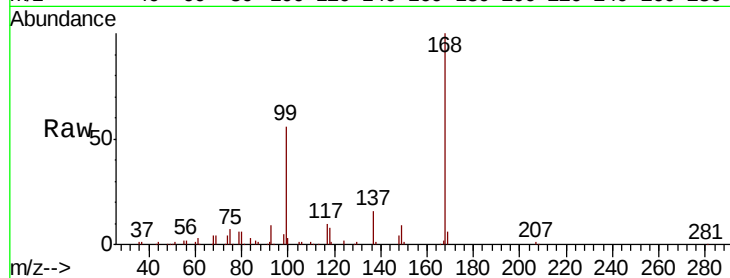
ClientSampled :

Tot Ion:168 Resp: 205025

Ion Ratio Lower Upper

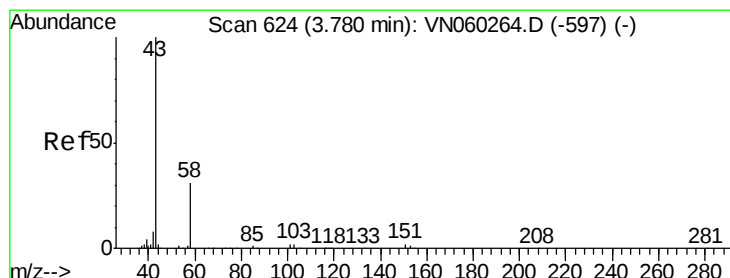
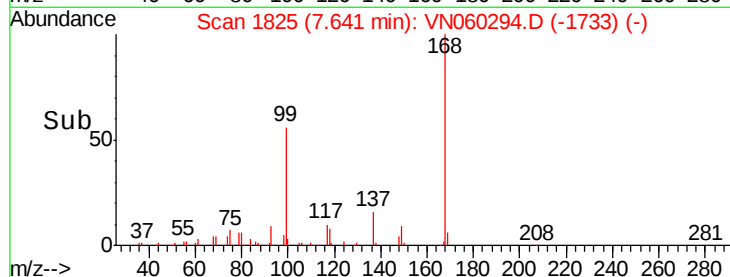
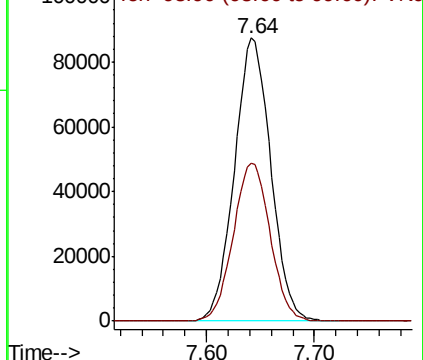
168 100

99 55.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 11.781 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060294.D

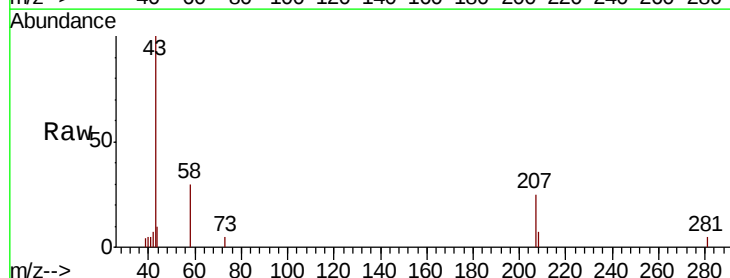
Acq: 28 Feb 2020 18:50

Tgt Ion: 43 Resp: 10008

Ion Ratio Lower Upper

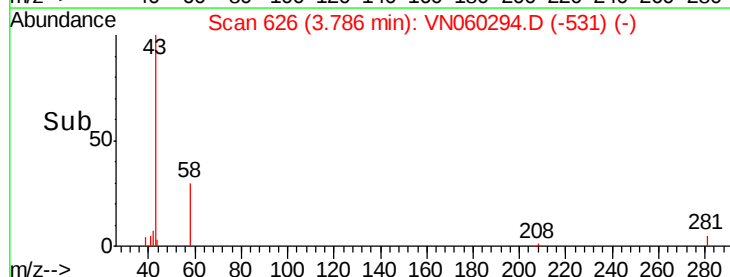
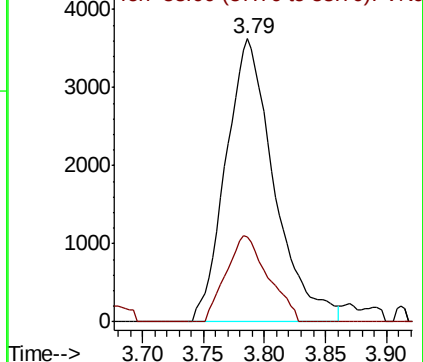
43 100

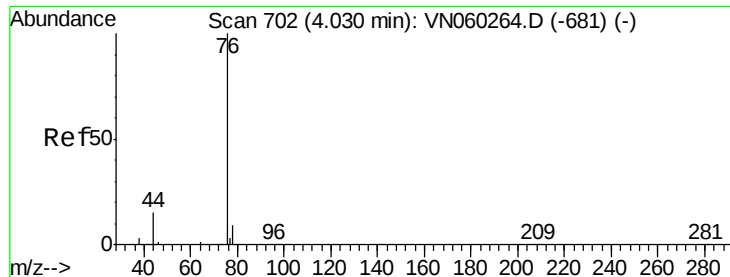
58 30.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

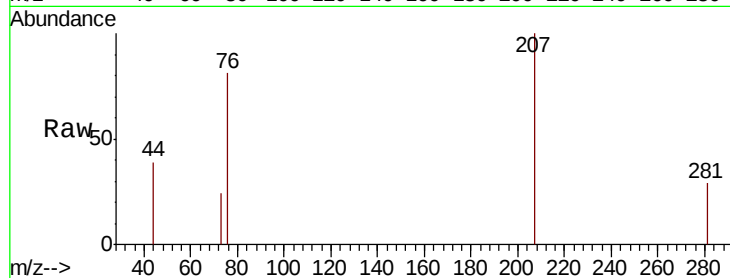
ClientSampleId :

Tot Ion: 76 Resp: 1712

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

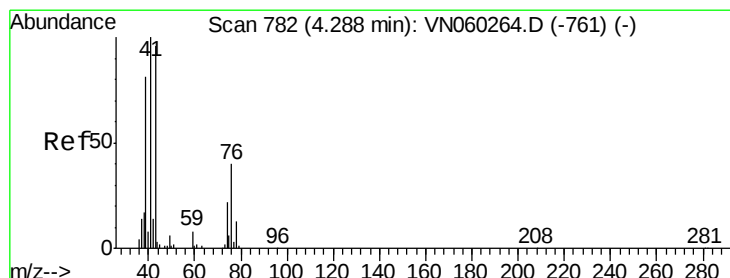
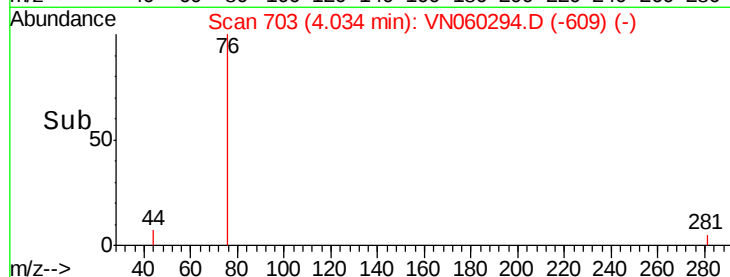
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 0.297 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060294.D

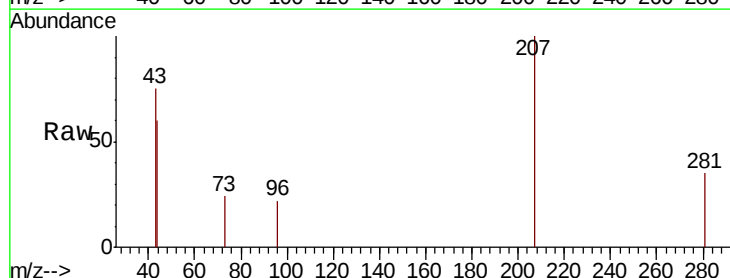
Acq: 28 Feb 2020 18:50

Tgt Ion: 43 Resp: 842

Ion Ratio Lower Upper

43 100

74 3.4 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

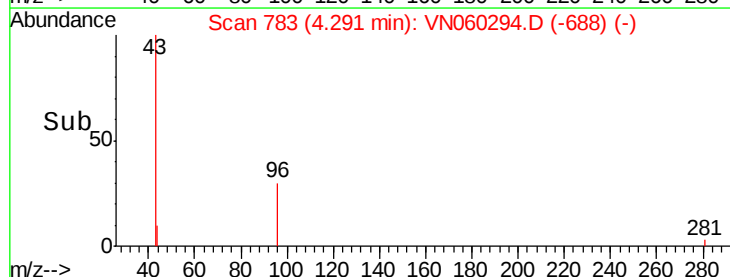
600

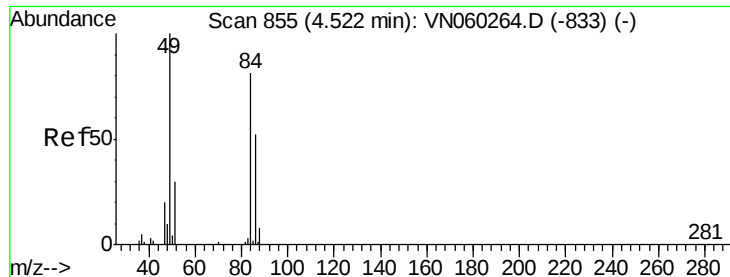
400

200

0

Time-->

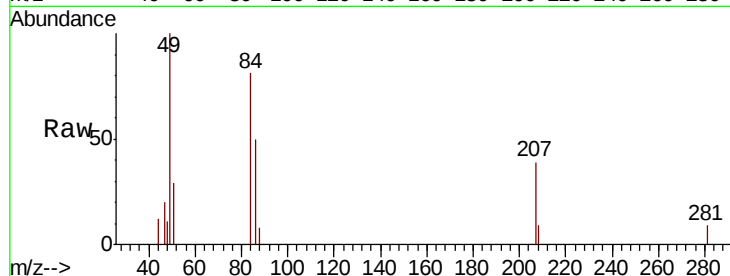




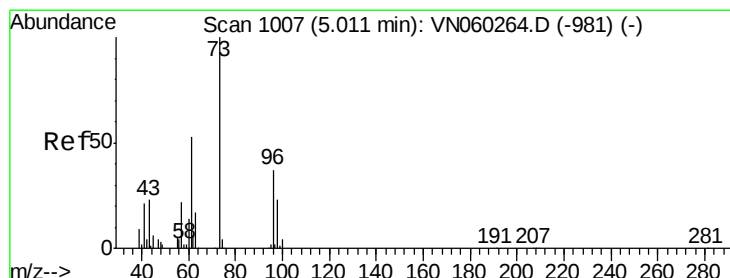
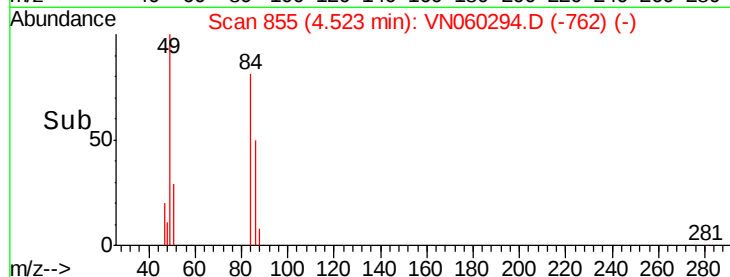
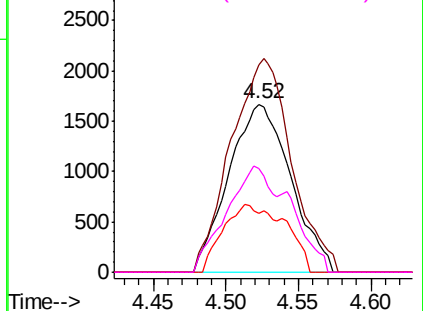
#20
Methvlene Chloride
Concen: 2.125 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 4958
Ion Ratio Lower Upper
84 100
49 123.4 99.3 148.9
51 35.3 30.1 45.1
86 61.6 51.1 76.7

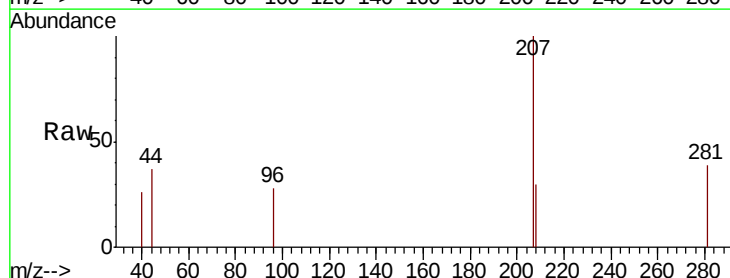


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

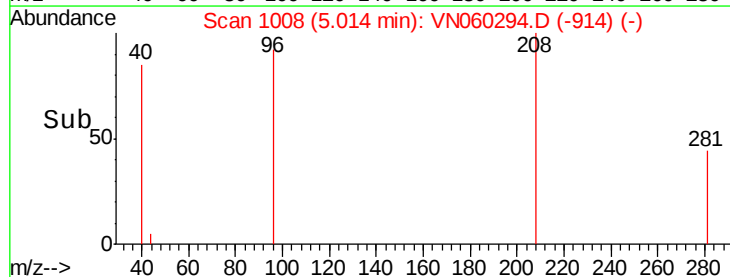
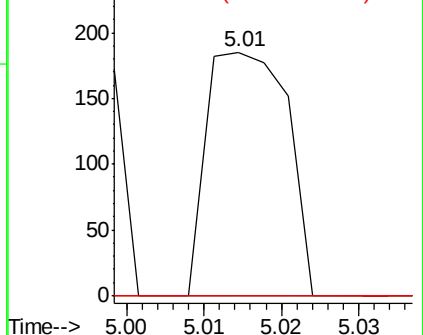


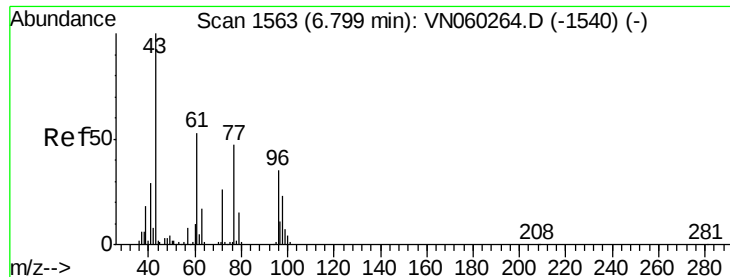
#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Tgt Ion: 96 Resp: 134
Ion Ratio Lower Upper
96 100
61 0.0 113.8 170.8#
98 0.0 48.8 73.2#



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

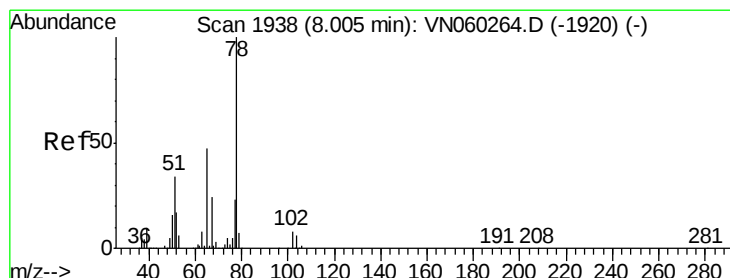
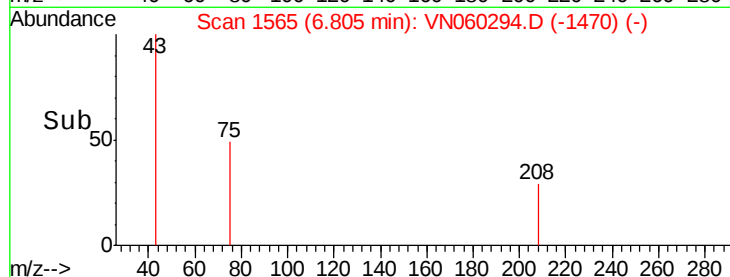
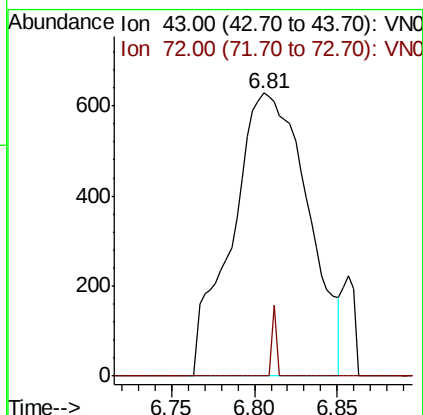
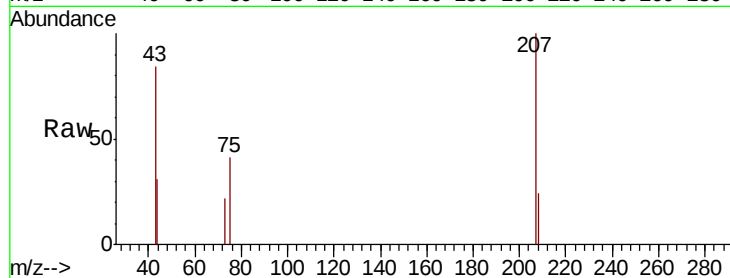




#25
 2-Butanone
 Concen: 1.458 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VN060294.D
 Acq: 28 Feb 2020 18:50

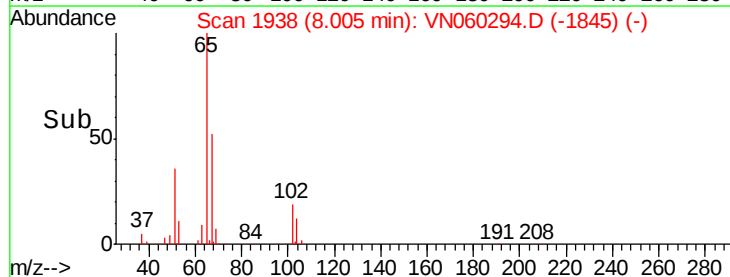
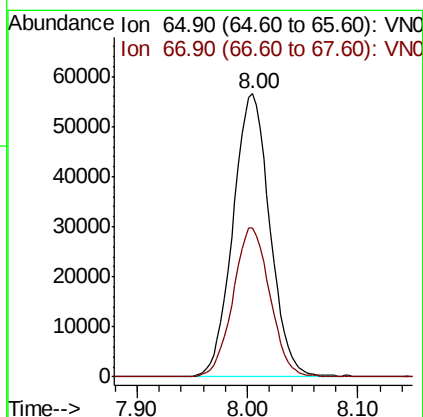
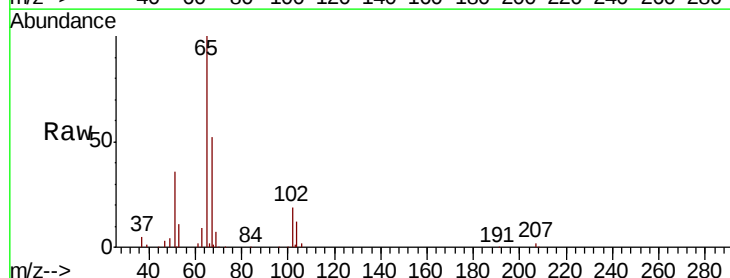
Instrument :
 MSVOA_N
 ClientSampleId :

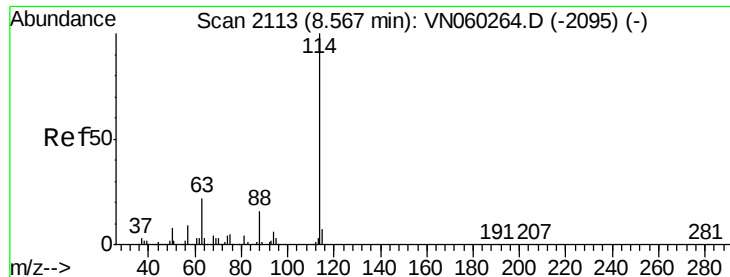
Tot Ion: 43 Resp: 2000
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 49.829 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060294.D
 Acq: 28 Feb 2020 18:50

Tgt Ion: 65 Resp: 131074
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8

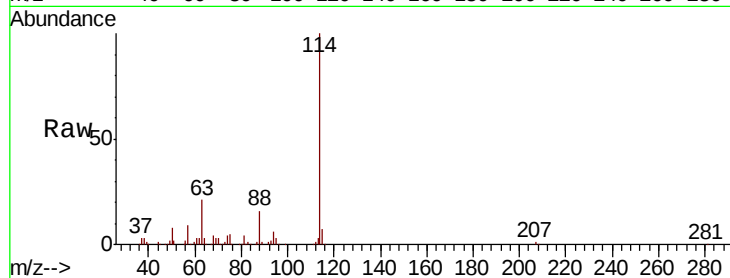




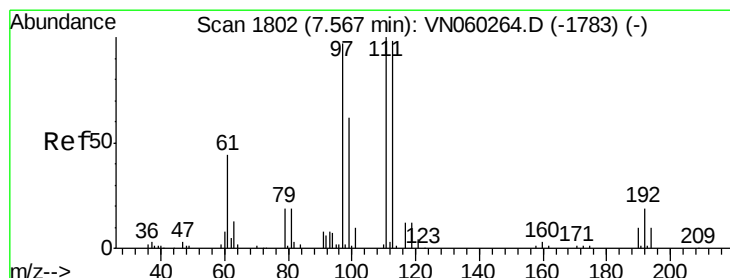
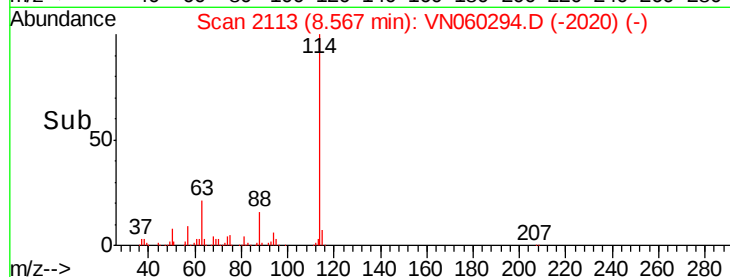
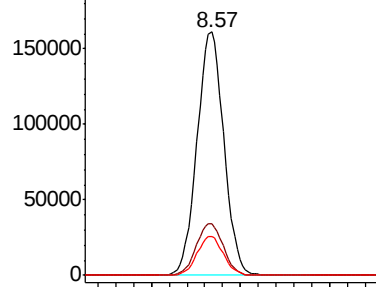
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.2
88	16.2	0.0	31.6

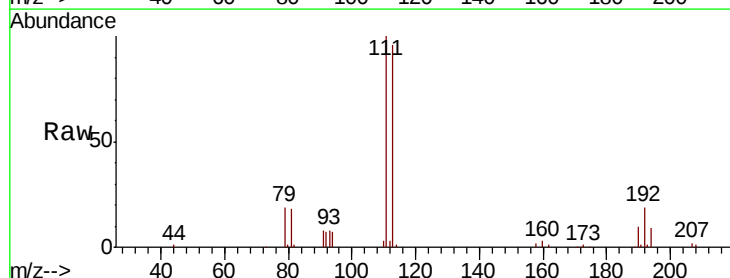


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

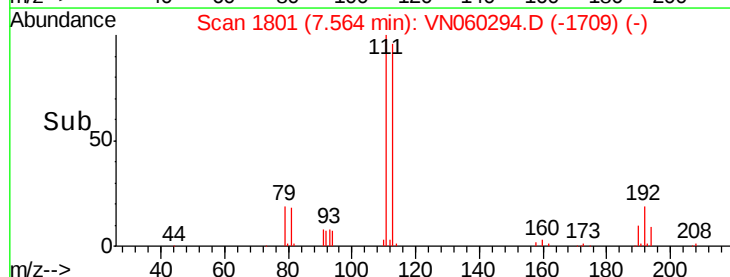
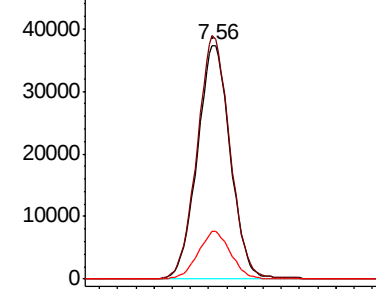


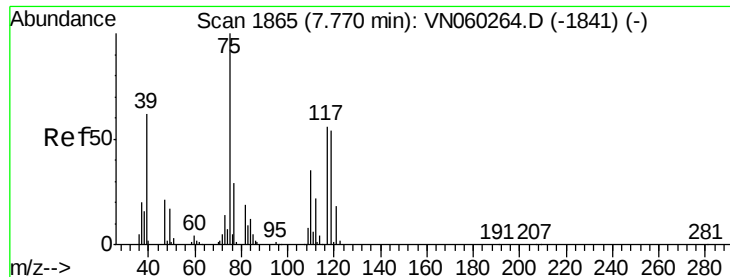
#35
Dibromofluoromethane
Concen: 60.326 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	20.1	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: 4.820 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

ClientSampleId :

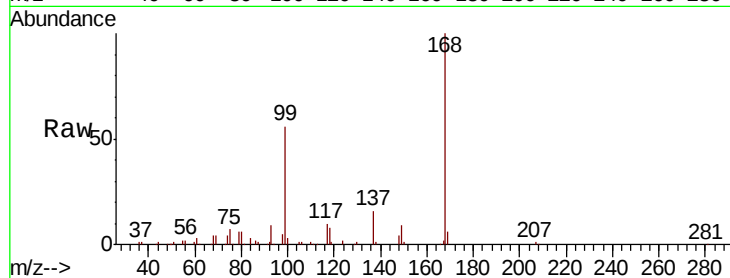
Tot Ion: 75 Resp: 15407

Ion Ratio Lower Upper

75 100

110 9.0 17.3 52.0#

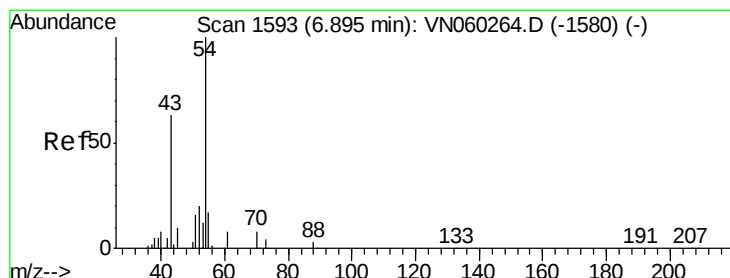
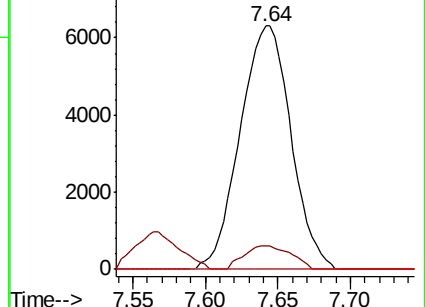
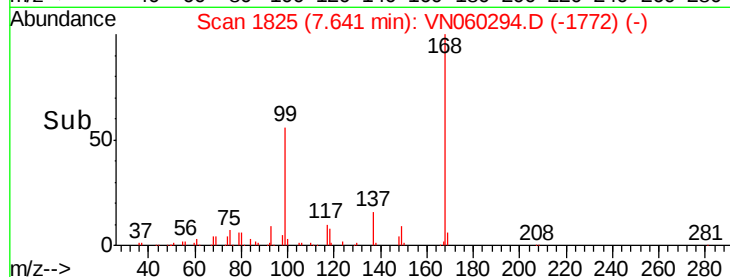
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060294.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060294.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060294.D (-1841) (-)



#37

Ethyl Acetate

Concen: 0.661 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

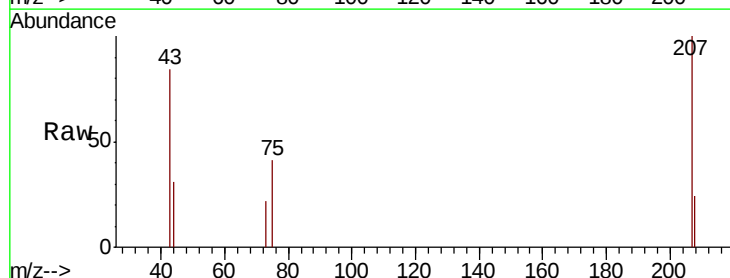
Tgt Ion: 43 Resp: 2000

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

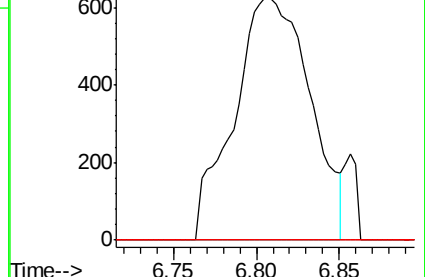
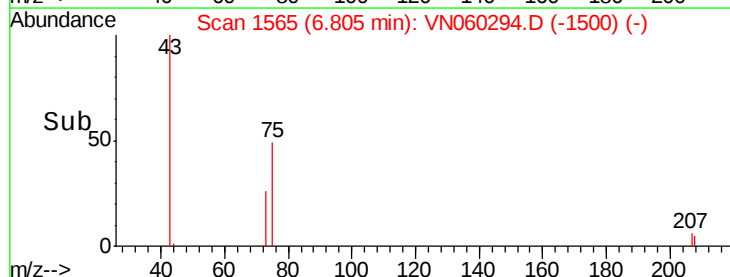
70 0.0 8.4 12.6#

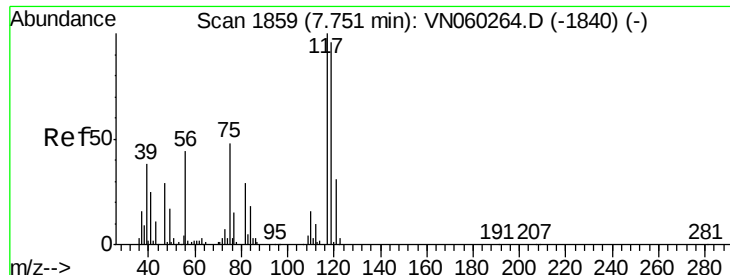


Abundance Ion 43.00 (42.70 to 43.70): VN060294.D (-1580) (-)

Ion 60.90 (60.60 to 61.60): VN060294.D (-1580) (-)

Ion 70.00 (69.70 to 70.70): VN060294.D (-1580) (-)





#38

Carbon Tetrachloride

Concen: 6.417 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

ClientSampled :

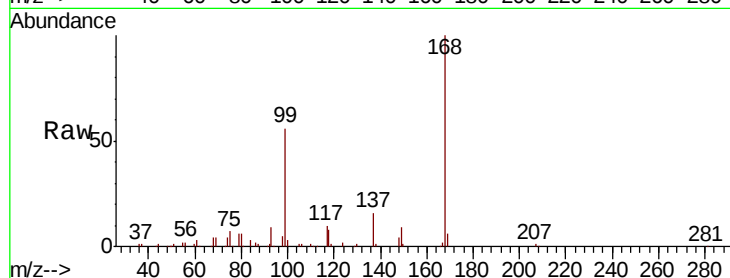
Tot Ion:117 Resp: 19971

Ion Ratio Lower Upper

117 100

119 5.2 76.7 115.1#

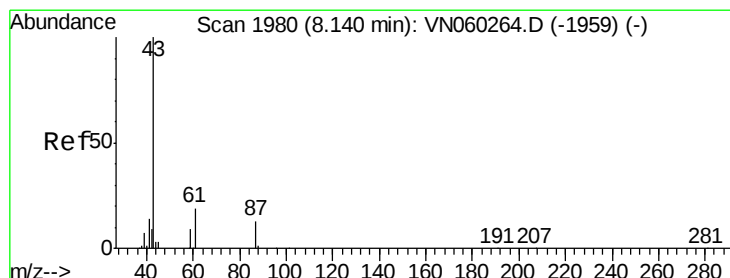
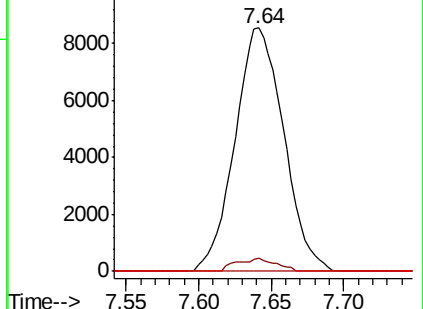
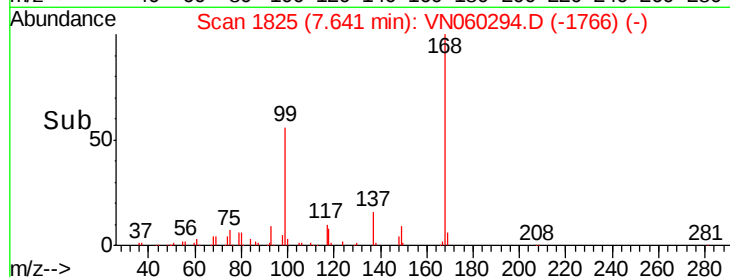
121 0.0 24.5 36.7#



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



#43

Isopropyl Acetate

Concen: 10.840 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

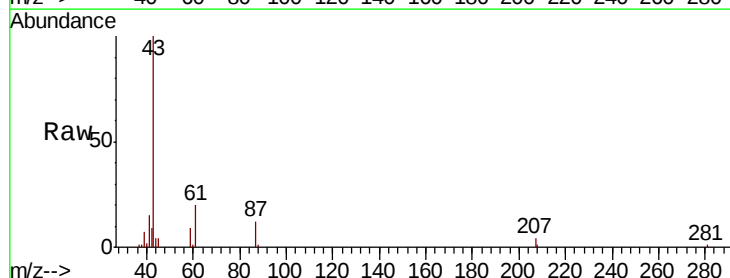
Tgt Ion: 43 Resp: 57438

Ion Ratio Lower Upper

43 100

61 19.4 20.9 31.3#

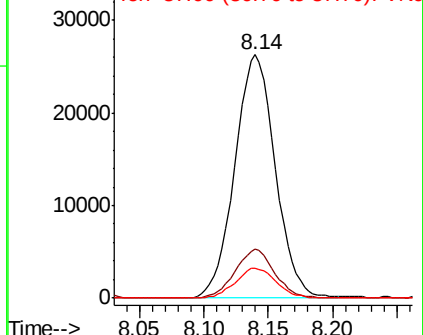
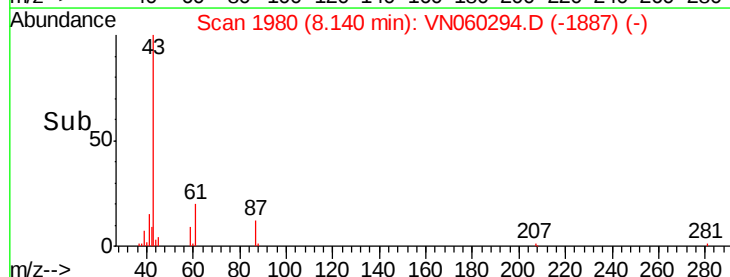
87 12.2 10.6 16.0

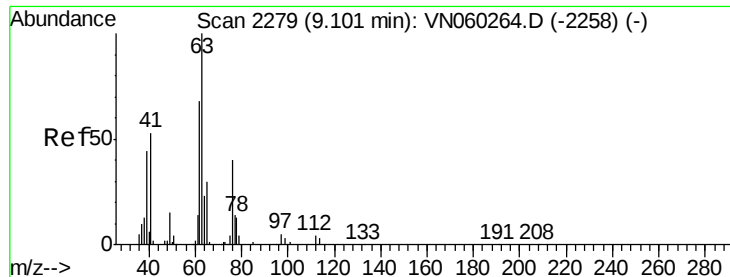


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.451 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

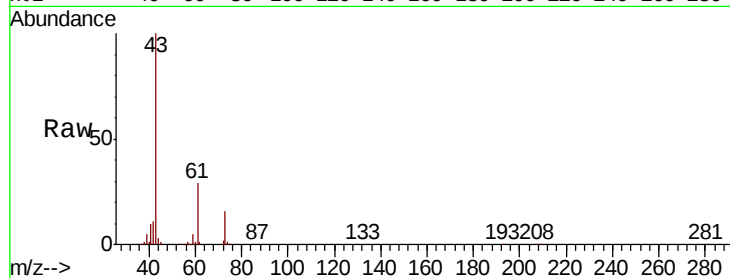
ClientSampleId :

Tot Ion: 63 Resp: 1096

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

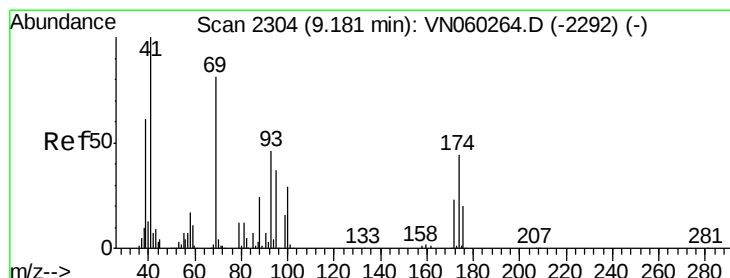
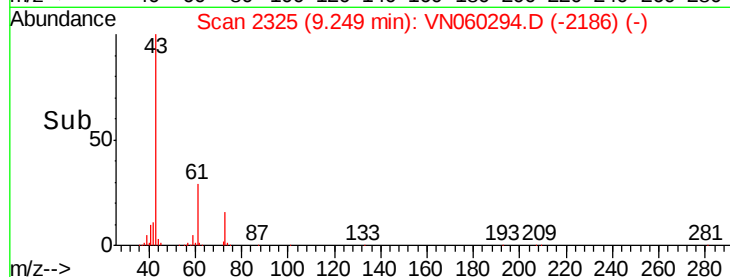
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.255 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

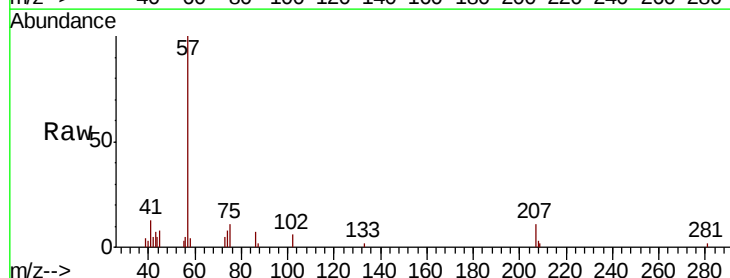
Tgt Ion: 41 Resp: 3032

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



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

30000

25000

20000

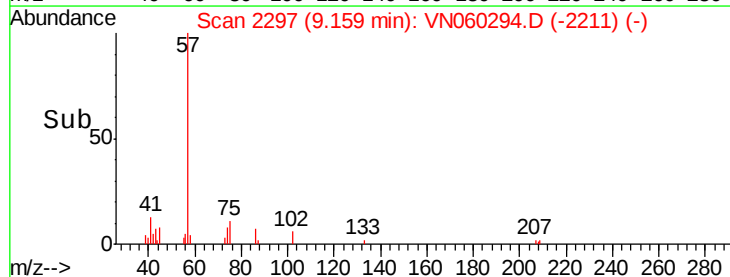
15000

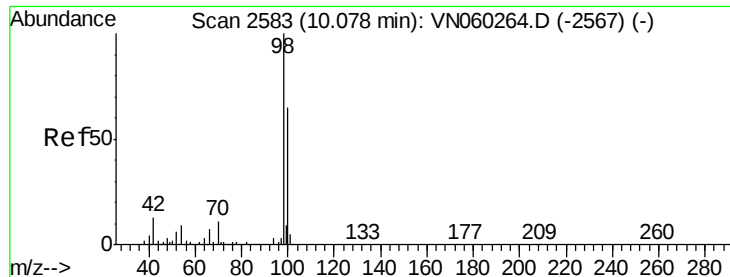
10000

5000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 53.018 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

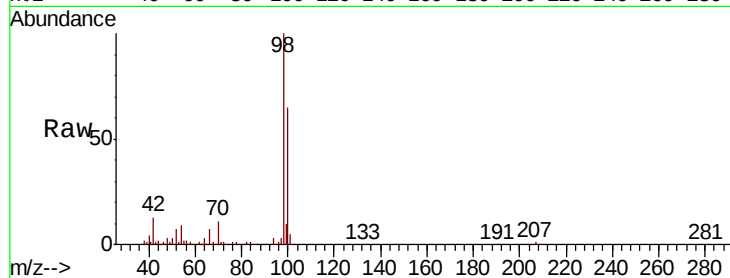
ClientSampled :

Tot Ion: 98 Resp: 417736

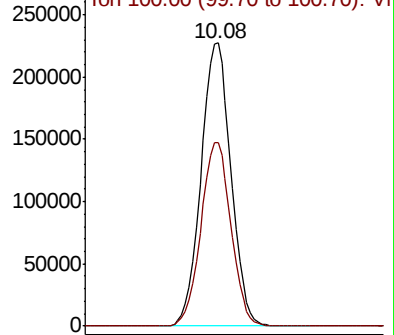
Ion Ratio Lower Upper

98 100

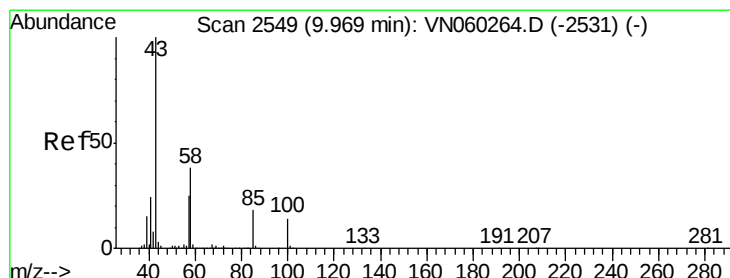
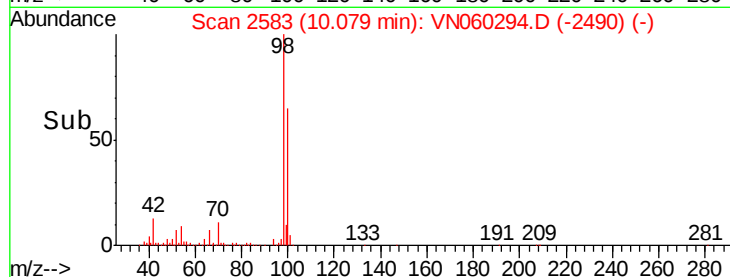
100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.588 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060294.D

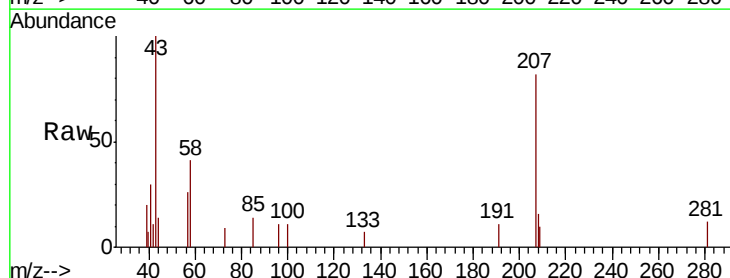
Acq: 28 Feb 2020 18:50

Tgt Ion: 43 Resp: 4772

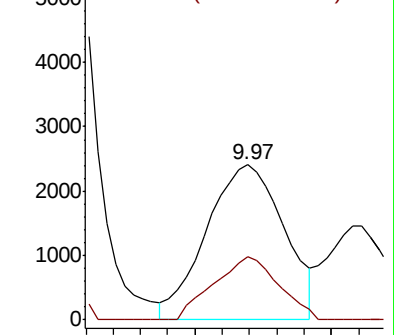
Ion Ratio Lower Upper

43 100

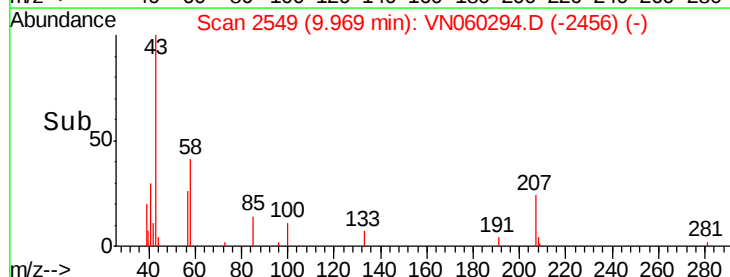
58 34.1 30.9 46.3

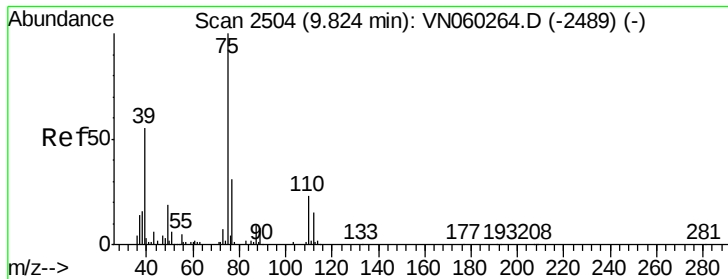


Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)



Time-->



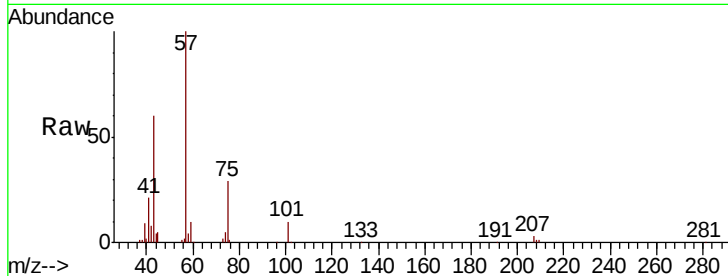


#54

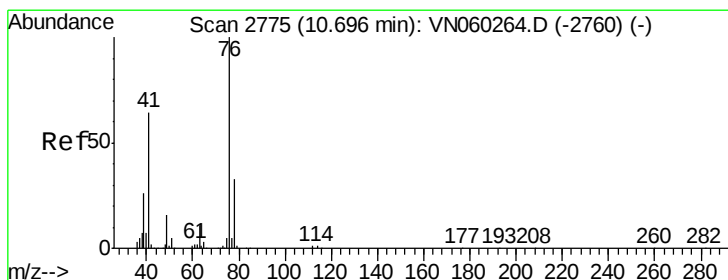
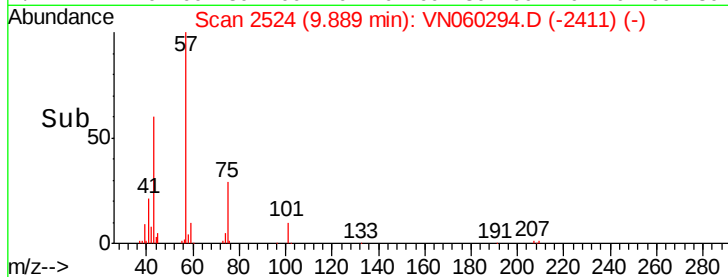
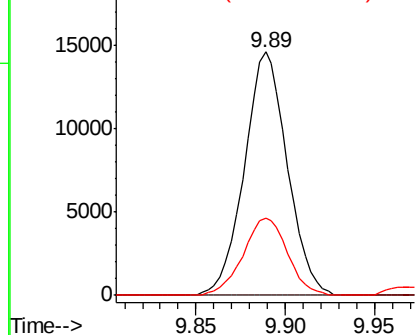
cis-1,3-Dichloropropene
 Concen: 6.025 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060294.D
 Acq: 28 Feb 2020 18:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	31.8	43.8	65.8#



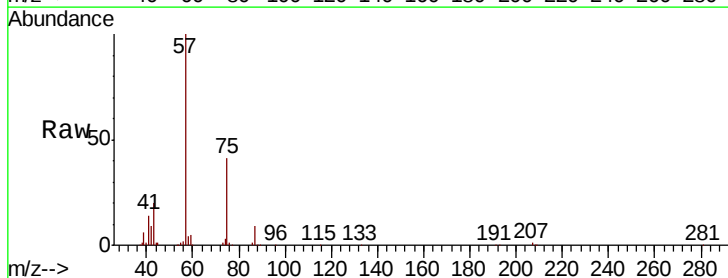
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



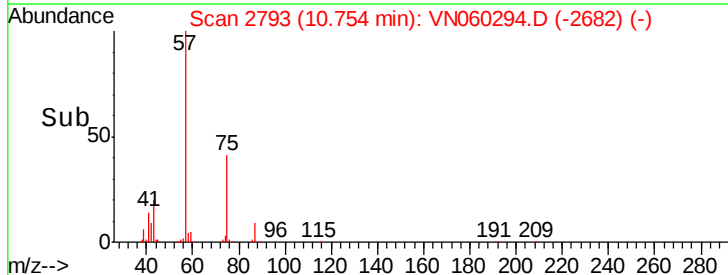
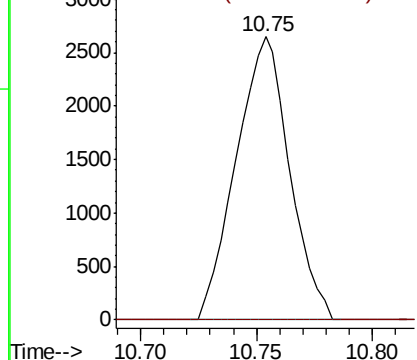
#57

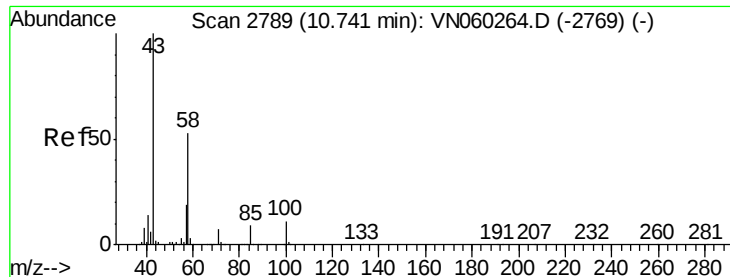
1,3-Dichloropropane
 Concen: 1.106 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060294.D
 Acq: 28 Feb 2020 18:50

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

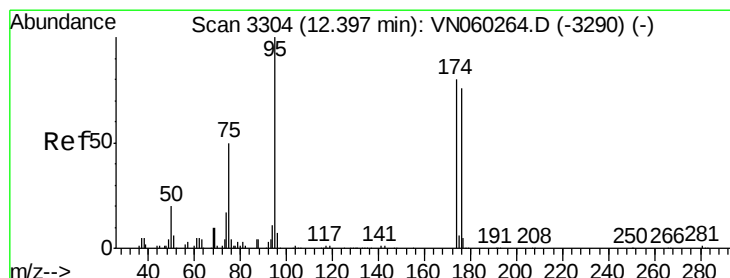
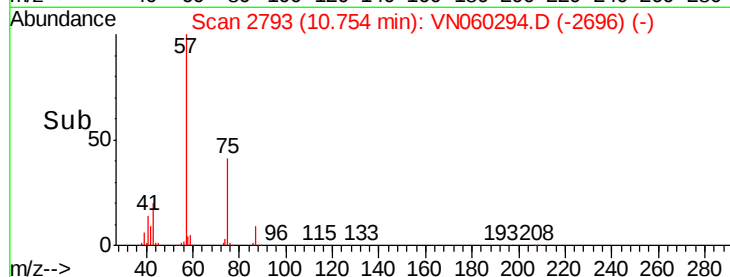
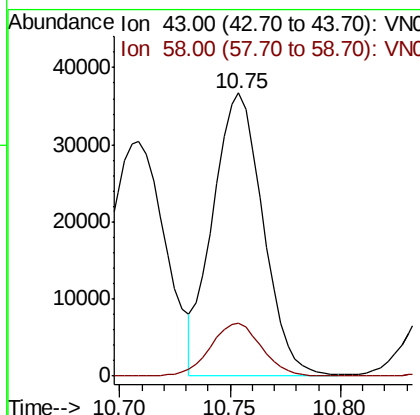
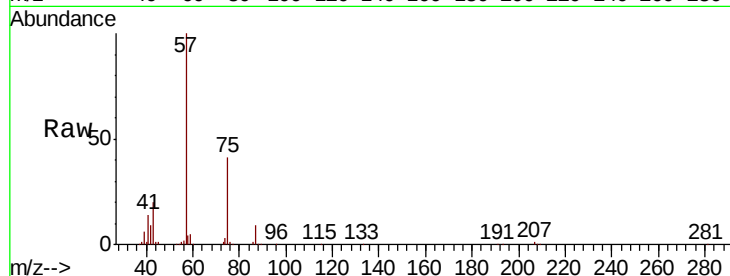




#59
2-Hexanone
Concen: 26.125 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

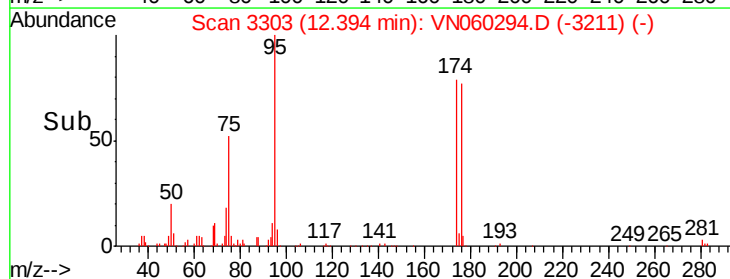
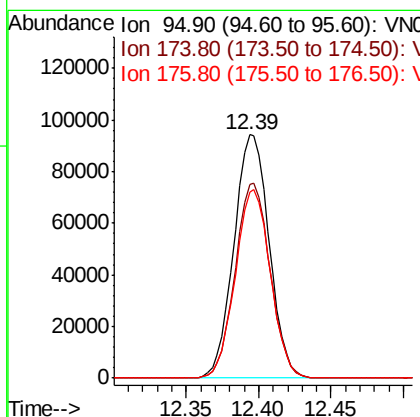
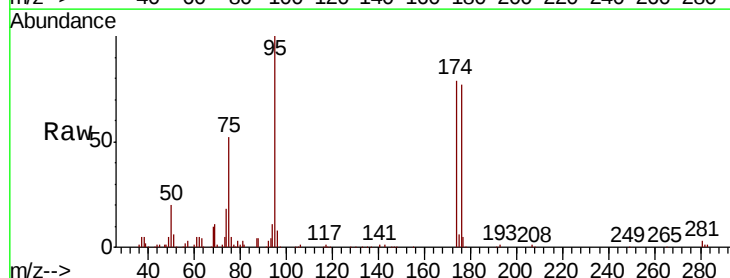
Instrument :
MSVOA_N
ClientSampleId :

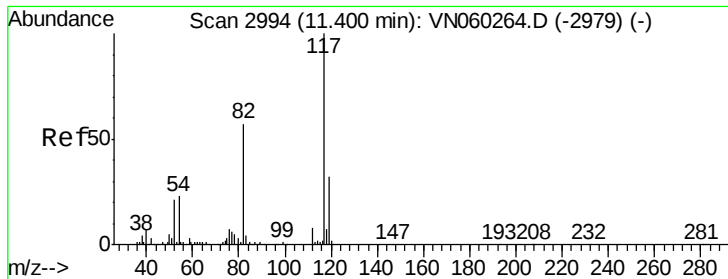
Tot Ion: 43 Resp: 57626
Ion Ratio Lower Upper
43 100
58 19.1 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 53.288 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Tgt Ion: 95 Resp: 159161
Ion Ratio Lower Upper
95 100
174 79.7 0.0 159.2
176 77.2 0.0 153.8

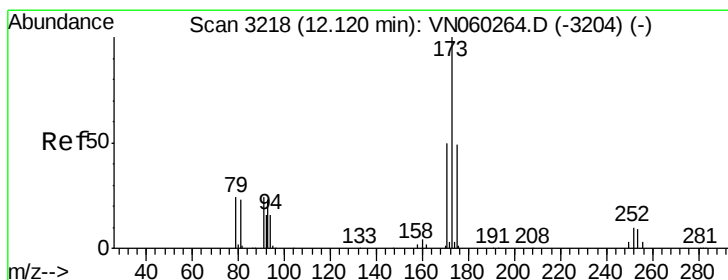
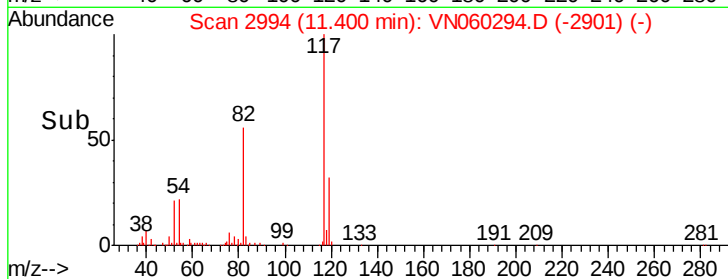
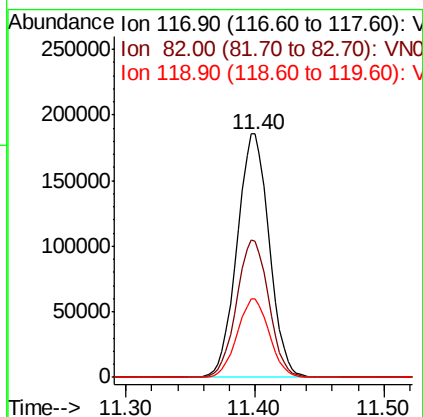
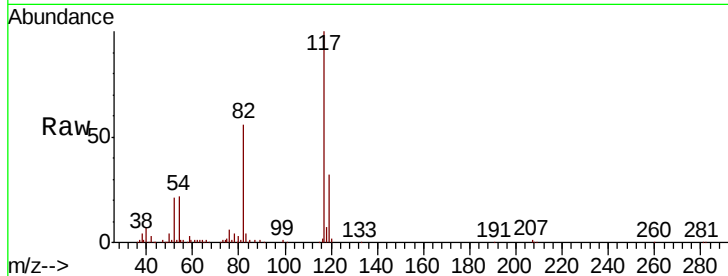




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

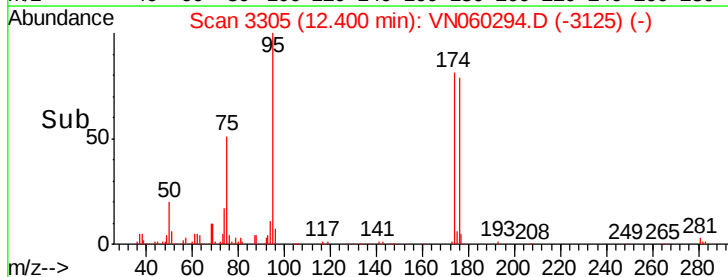
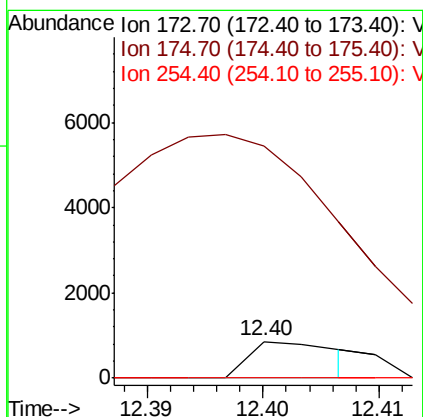
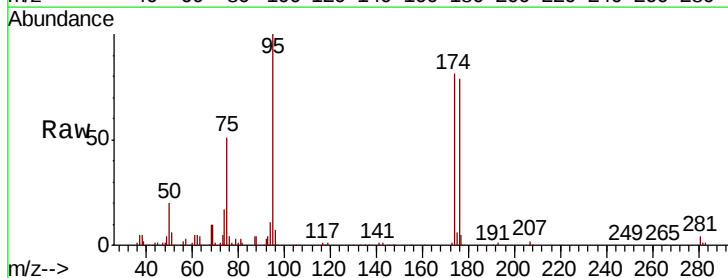
Instrument :
MSVOA_N
ClientSampled :

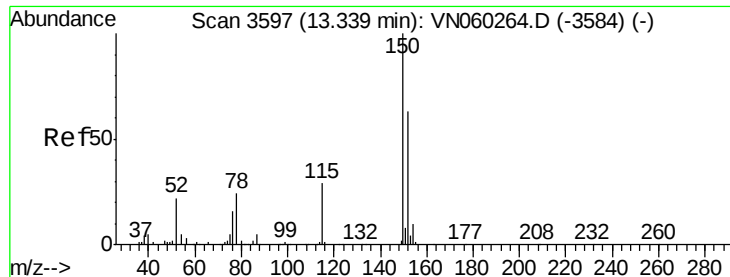
Tot Ion:117 Resp: 321746
Ion Ratio Lower Upper
117 100
82 55.8 45.8 68.6
119 32.2 25.8 38.8



#71
Bromoform
Concen: 0.260 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Tgt Ion:173 Resp: 450
Ion Ratio Lower Upper
173 100
175 1898.2 24.1 72.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

ClientSampled :

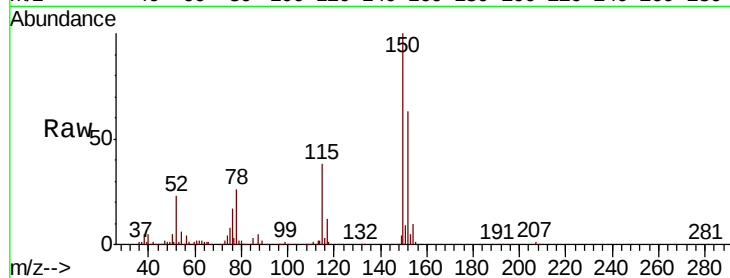
Tot Ion:152 Resp: 154728

Ion Ratio Lower Upper

152 100

115 60.4 30.0 90.0

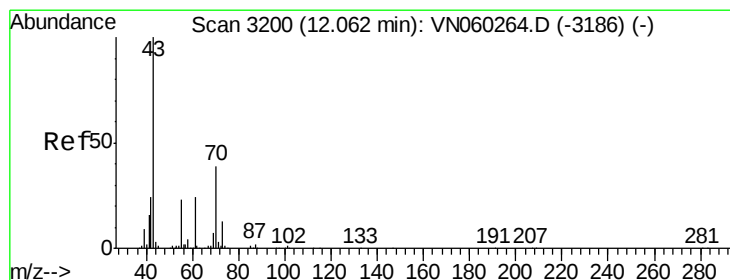
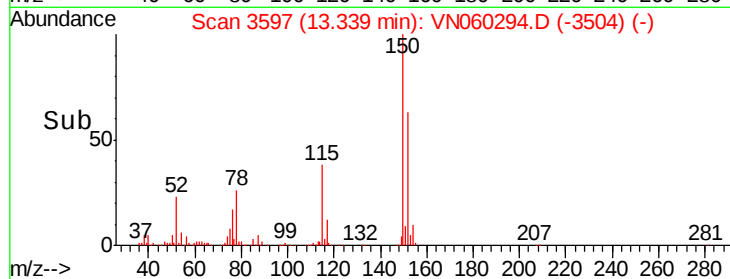
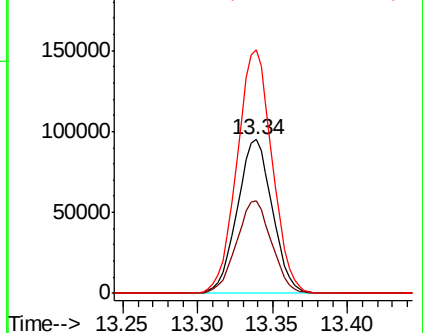
150 159.0 0.0 349.6



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



#74

N-ethyl acetate

Concen: 0.638 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Tgt Ion: 43 Resp: 3197

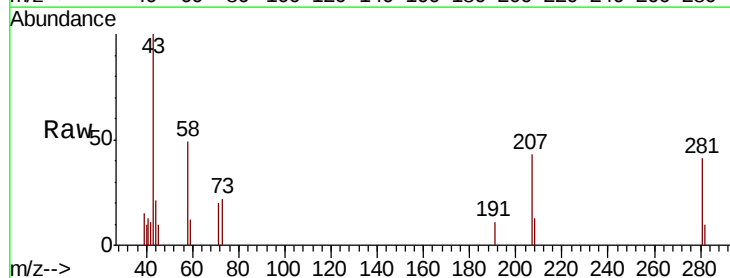
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

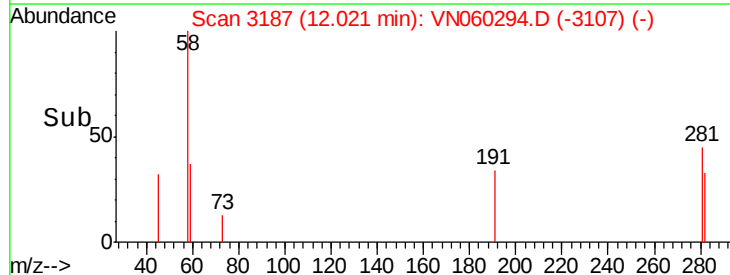
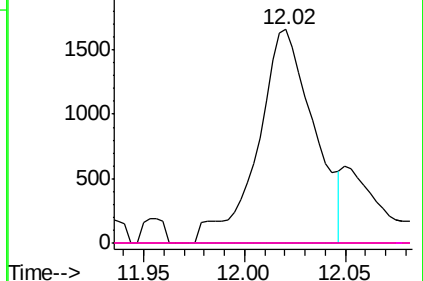


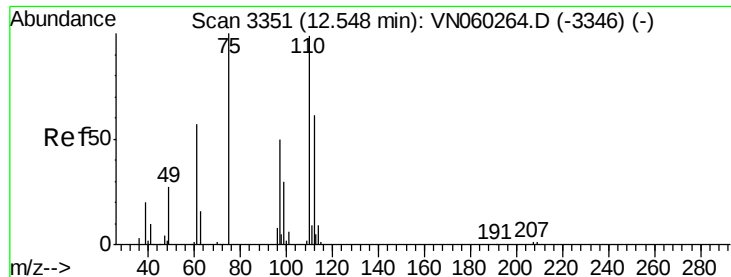
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.264 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

Instrument :

MSVOA_N

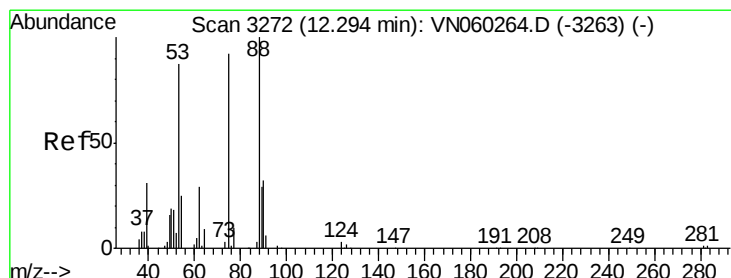
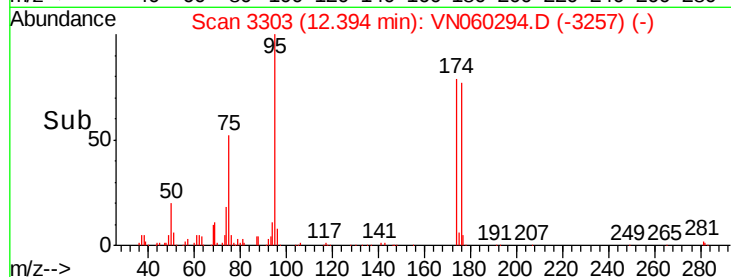
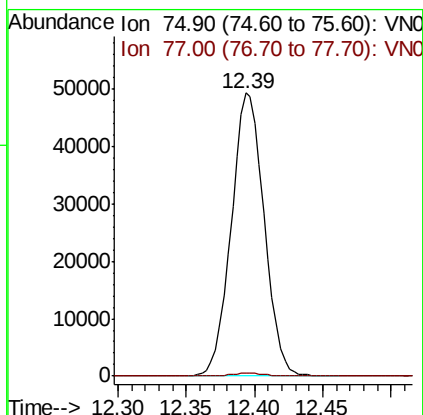
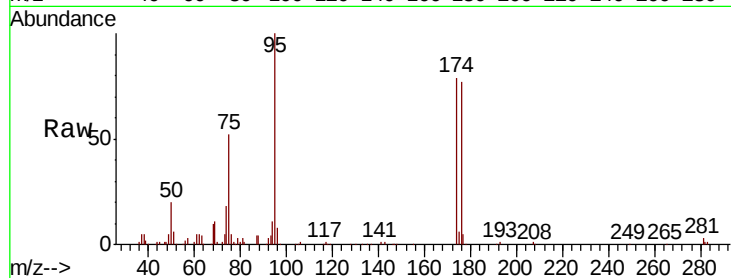
ClientSampleId :

Tot Ion: 75 Resp: 82371

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.981 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060294.D

Acq: 28 Feb 2020 18:50

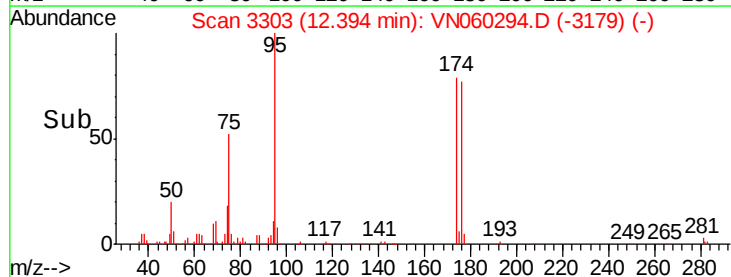
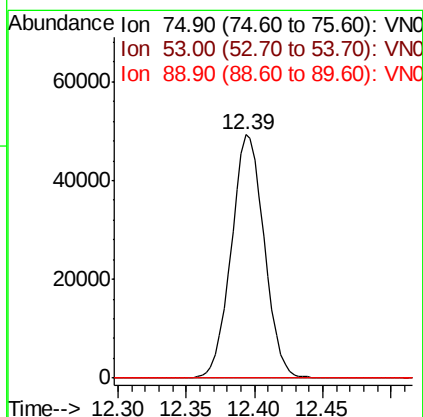
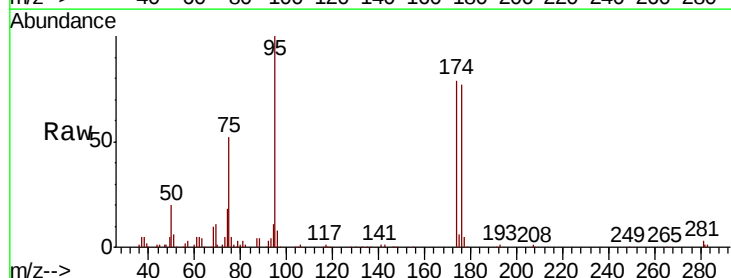
Tgt Ion: 75 Resp: 82371

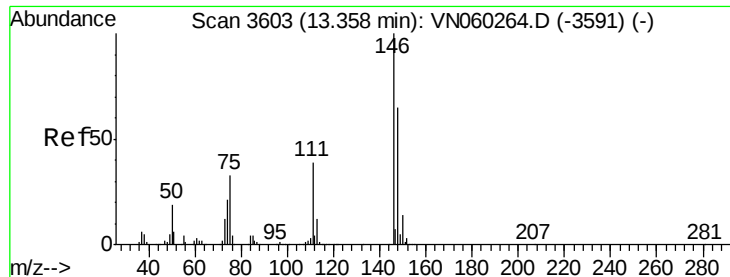
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

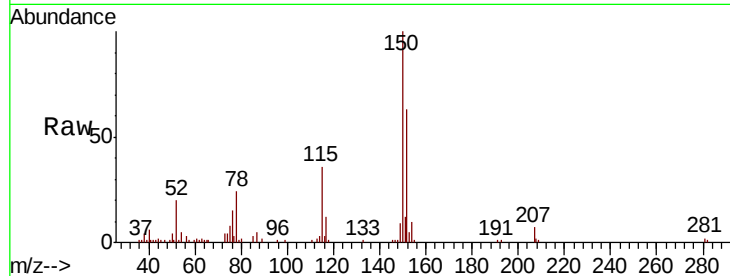




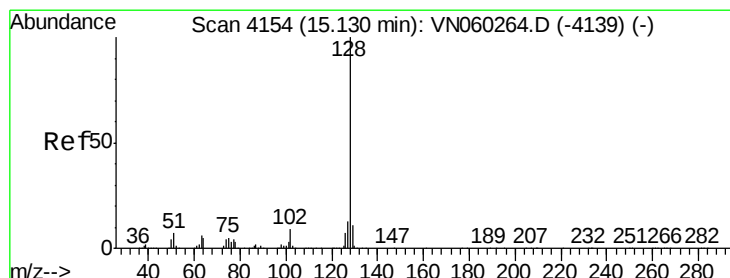
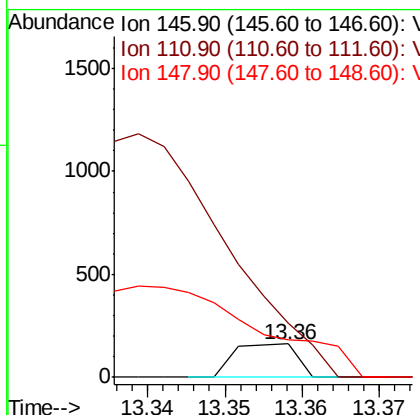
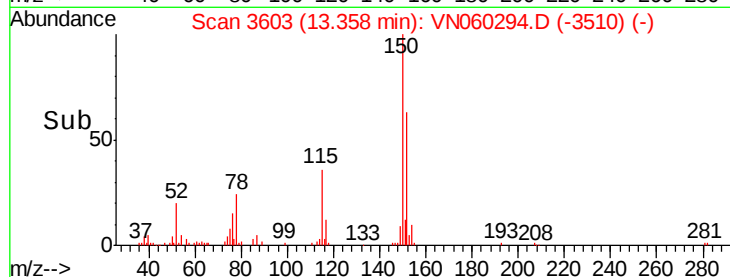
#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3603
Delta R.T. 0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:146 Resp: 91
Ion Ratio Lower Upper
146 100
111 2122.0 19.8 59.4#
148 825.3 32.3 96.9#

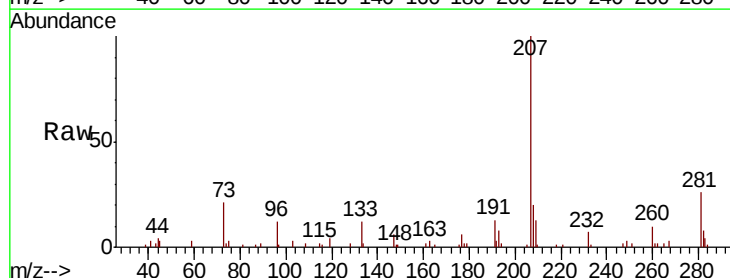


Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060294.D
Acq: 28 Feb 2020 18:50

Tgt Ion:128 Resp: 258
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

