

Data File : VN060450.D
Acq On : 11 Mar 2020 15:12
Operator : JC/MD
Sample : L1864-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
SP-1

Quant Time: Mar 12 03:38:34 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	193312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	318625	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	302384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142658	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	127361	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
35) Dibromofluoromethane	7.57	113	95968	64.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.78%	
50) Toluene-d8	10.08	98	398469	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	
62) 4-Bromofluorobenzene	12.40	95	150441	53.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.04%	

Target Compounds

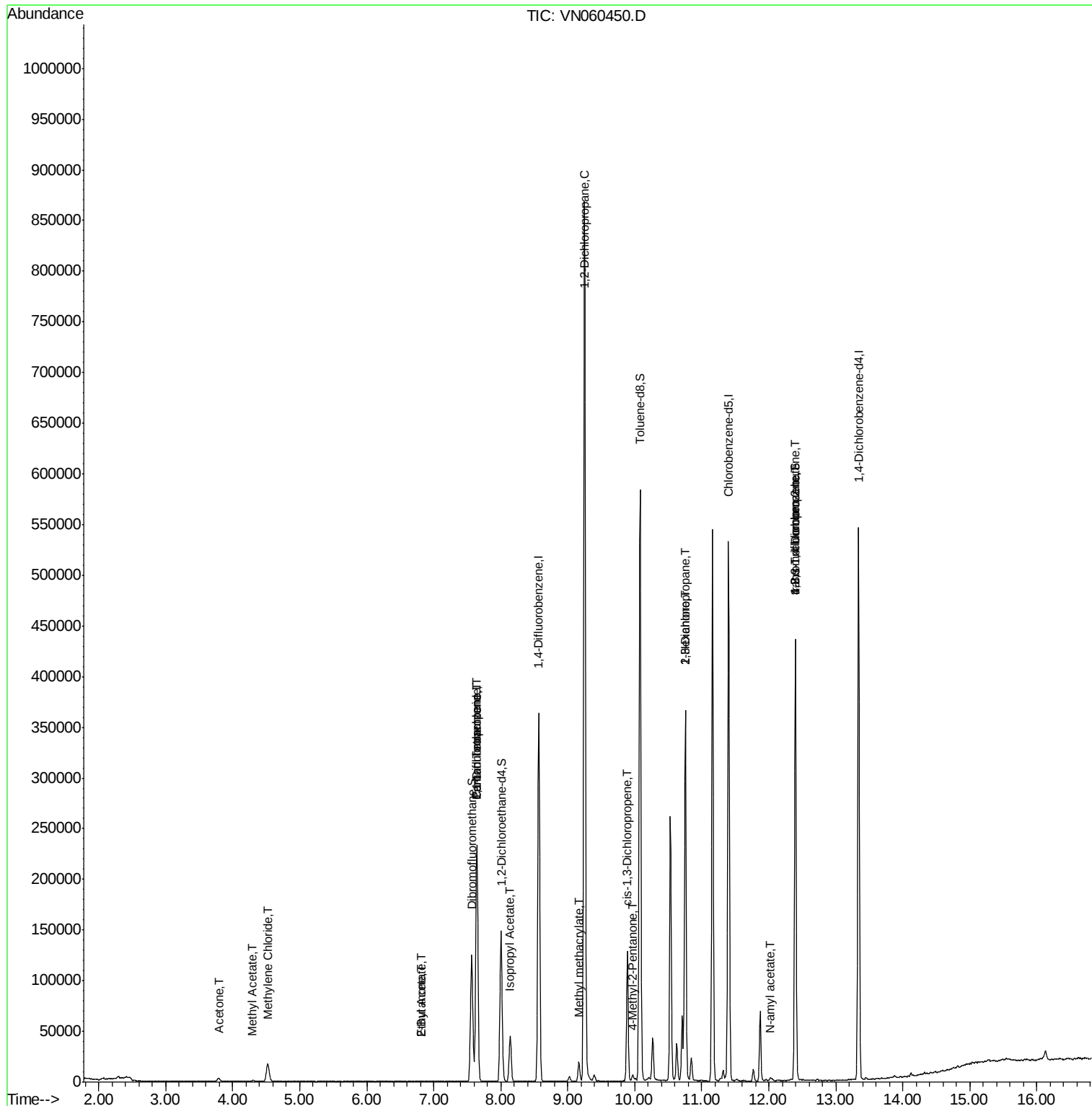
						Qvalue
16) Acetone	3.79	43	6468	8.076	ug/l	94
18) Methyl Acetate	4.29	43	603	0.226	ug/l #	52
20) Methylene Chloride	4.53	84	13117	5.963	ug/l	94
25) 2-Butanone	6.82	43	1126	0.870	ug/l #	49
31) Cyclohexane	7.64	56	4053	Below Cal	#	3
36) 1,1-Dichloropropene	7.64	75	15068	4.962	ug/l #	50
37) Ethyl Acetate	6.82	43	1126	0.392	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18700	6.325	ug/l #	16
43) Isopropyl Acetate	8.14	43	53983	10.724	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	802	0.347	ug/l #	44
48) Methyl methacrylate	9.16	41	2720	1.185	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4216	1.477	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	23501	6.069	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3583	0.984	ug/l #	42
59) 2-Hexanone	10.75	43	53647	25.601	ug/l #	51
74) N-amyl acetate	12.02	43	3485	0.754	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	76564	24.462	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76564	67.526	ug/l #	8
95) Naphthalene	15.12	128	287	Below Cal	#	69

(#) = 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# 1826

Delta R.T. 0.00 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

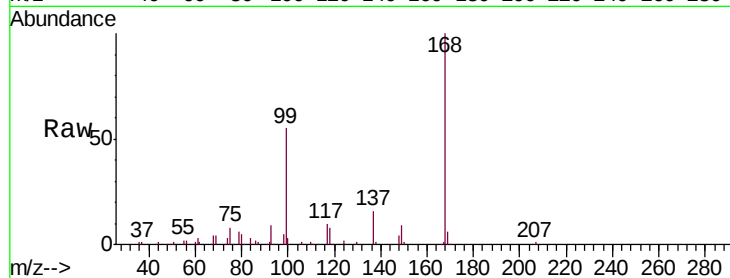
SP-1

Tgt Ion:168 Resp: 193312

Ion Ratio Lower Upper

168 100

99 54.6 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

80000

60000

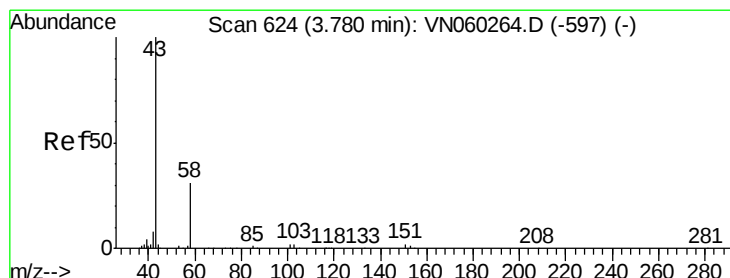
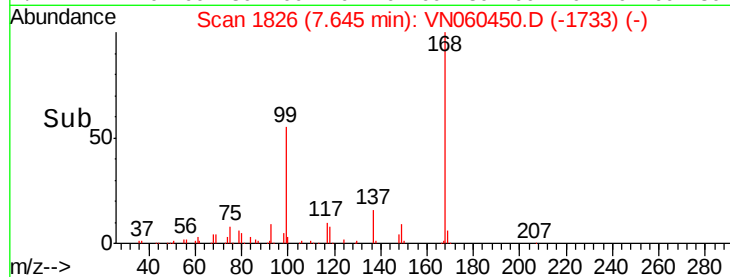
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 8.076 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060450.D

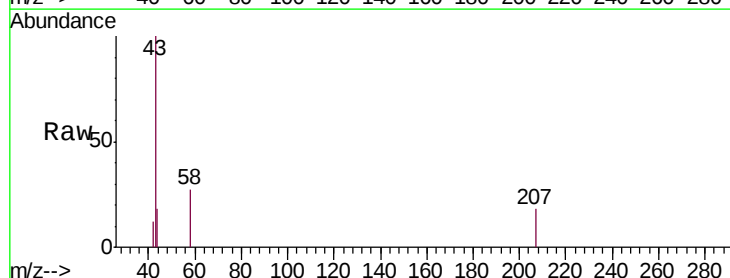
Acq: 11 Mar 2020 15:12

Tgt Ion: 43 Resp: 6468

Ion Ratio Lower Upper

43 100

58 27.4 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

2500

2000

1500

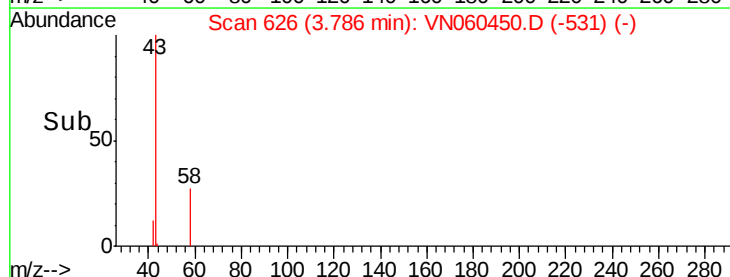
1000

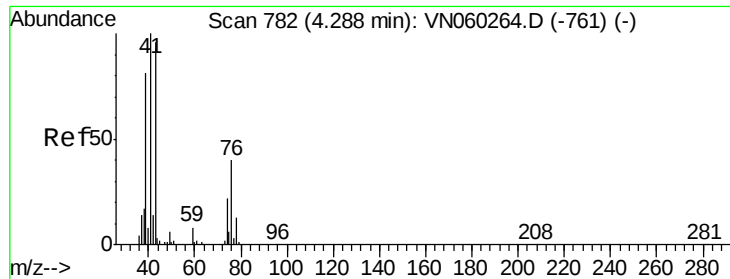
500

0

3.70 3.75 3.80 3.85

Time-->

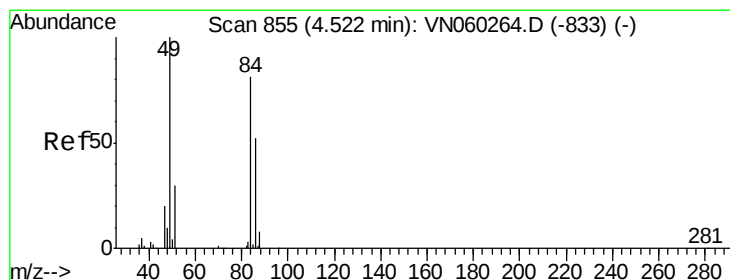
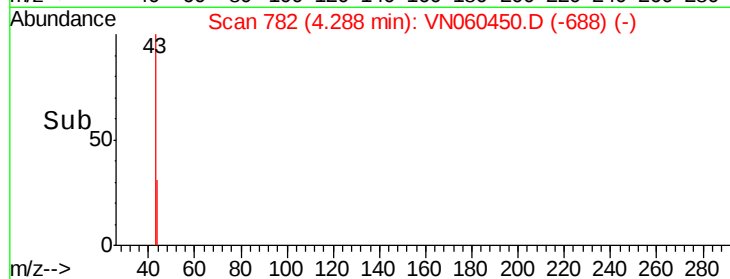
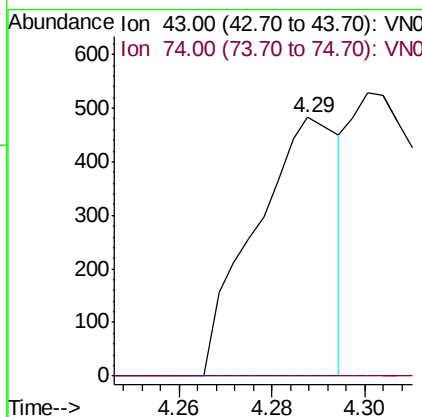
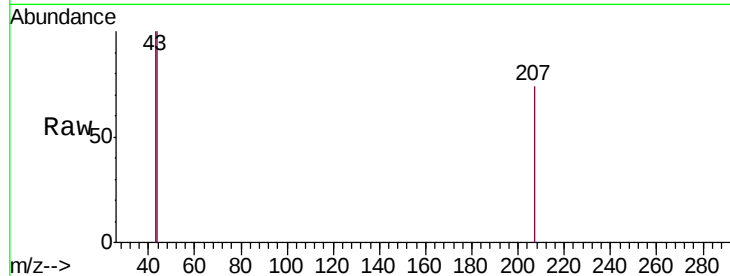




#18
Methyl Acetate
Concen: 0.226 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060450.D
Acq: 11 Mar 2020 15:12

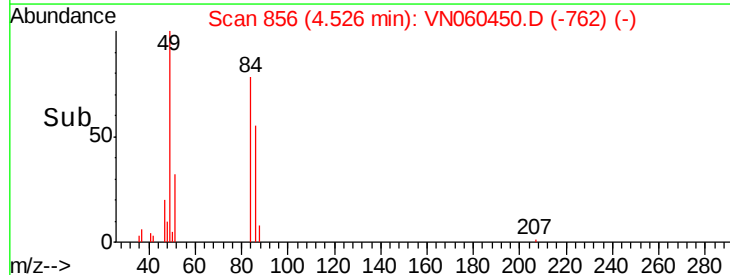
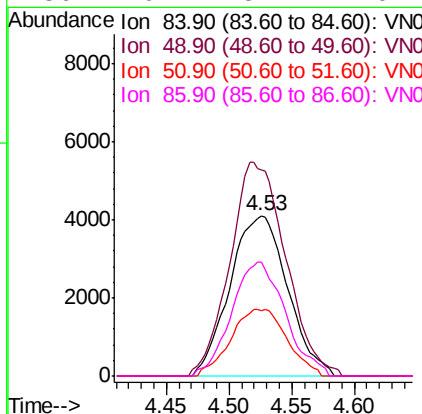
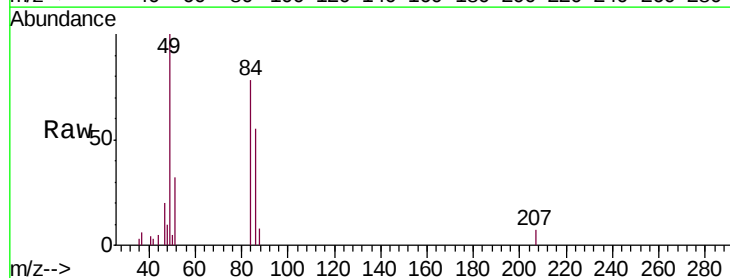
Instrument :
MSVOA_N
ClientSampled :
SP-1

Tgt Ion: 43 Resp: 603
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 5.963 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060450.D
Acq: 11 Mar 2020 15:12

Tgt Ion: 84 Resp: 13117
Ion Ratio Lower Upper
84 100
49 128.7 99.3 148.9
51 41.1 30.1 45.1
86 70.7 51.1 76.7





#25

2-Butanone

Concen: 0.870 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

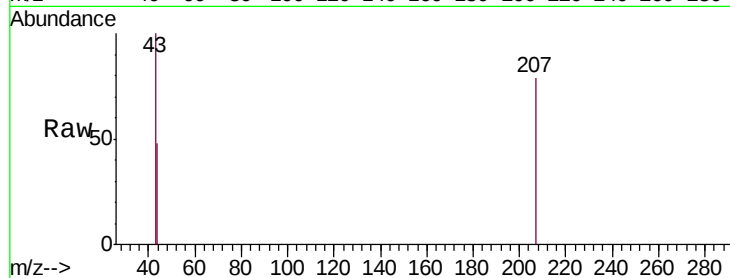
SP-1

Tgt Ion: 43 Resp: 1126

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

400

300

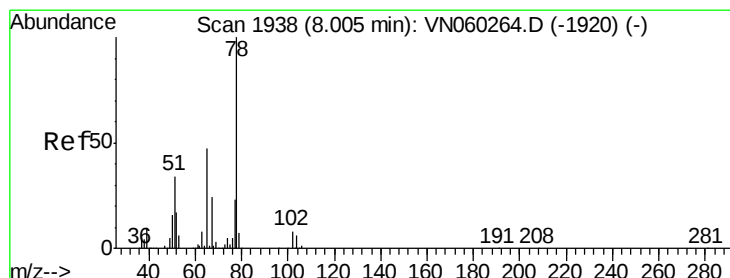
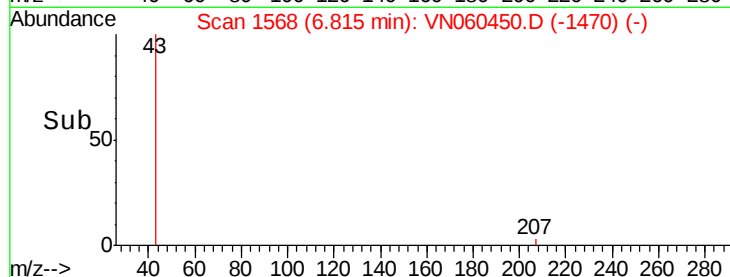
200

100

0

6.75 6.80 6.85

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.351 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060450.D

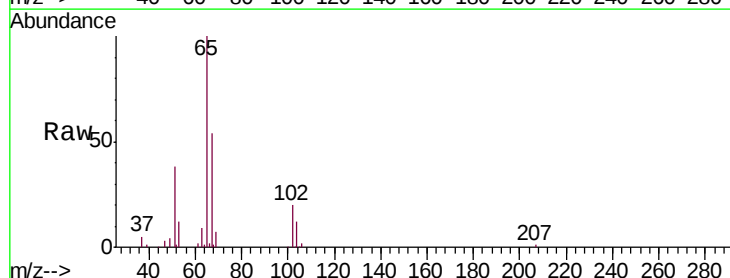
Acq: 11 Mar 2020 15:12

Tgt Ion: 65 Resp: 127361

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.00

60000

50000

40000

30000

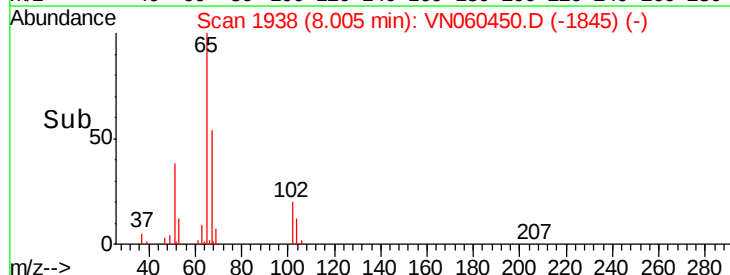
20000

10000

0

7.90 8.00 8.10

Time-->

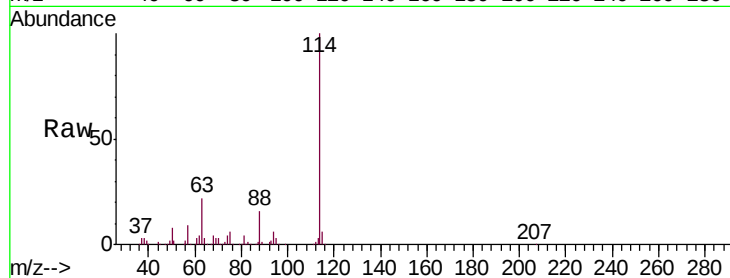




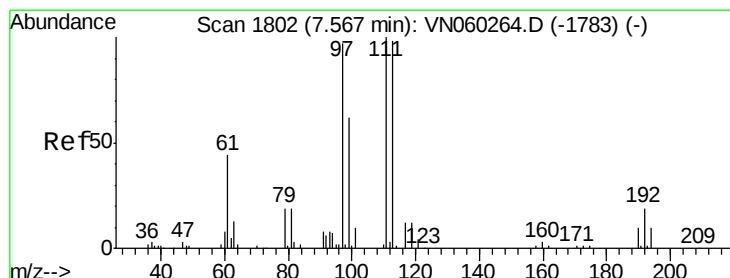
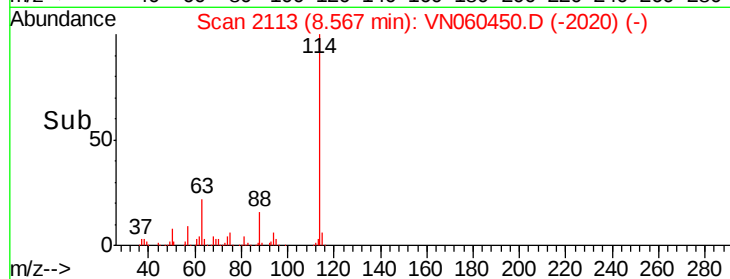
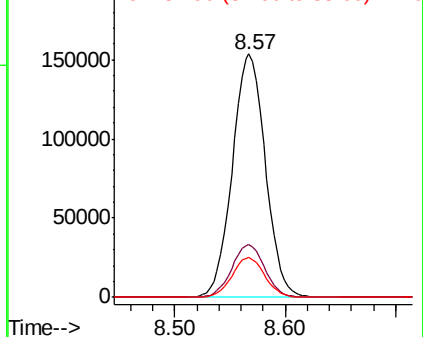
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060450.D
 Acq: 11 Mar 2020 15:12

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.2
88	16.2	0.0	31.6

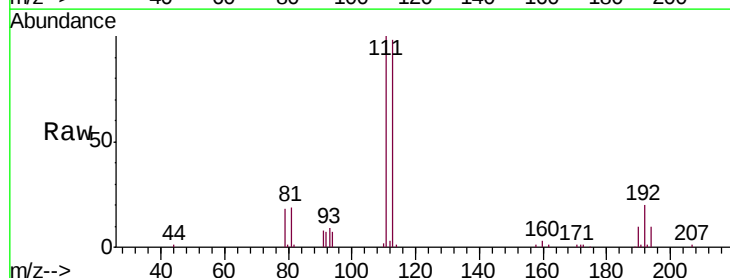


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

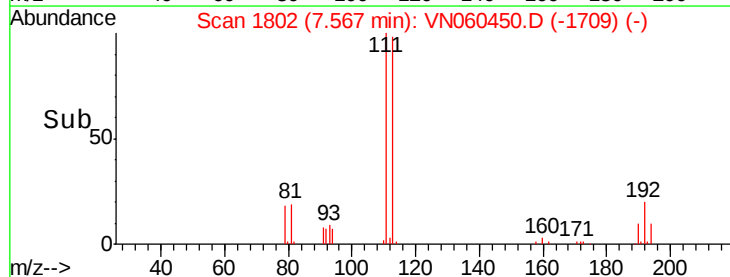
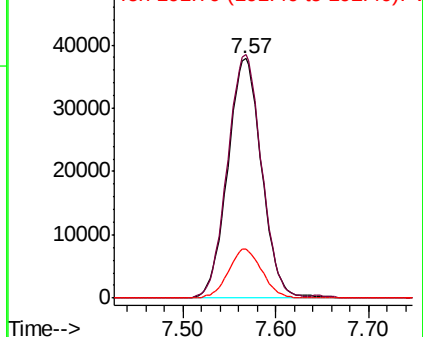


#35
 Dibromofluoromethane
 Concen: 64.889 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060450.D
 Acq: 11 Mar 2020 15:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	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: 4.962 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

SP-1

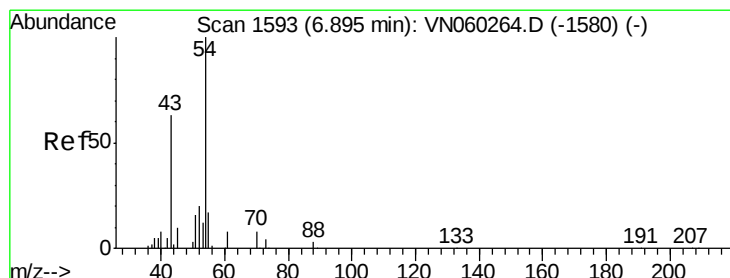
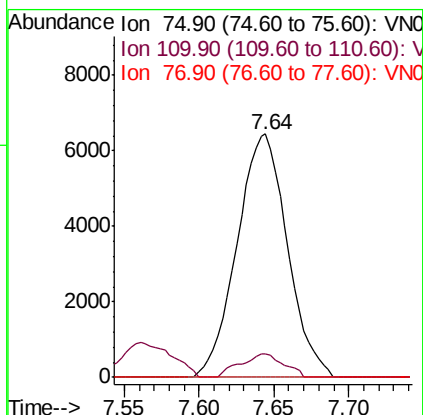
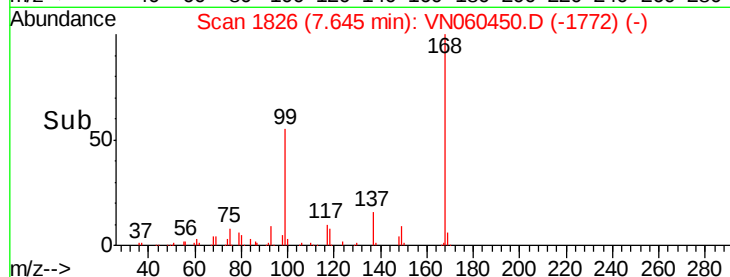
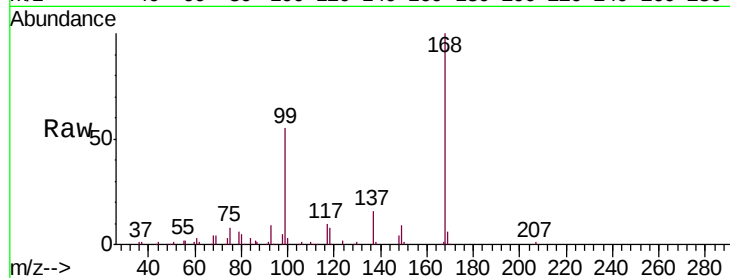
Tgt Ion: 75 Resp: 15068

Ion Ratio Lower Upper

75 100

110 8.3 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.392 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

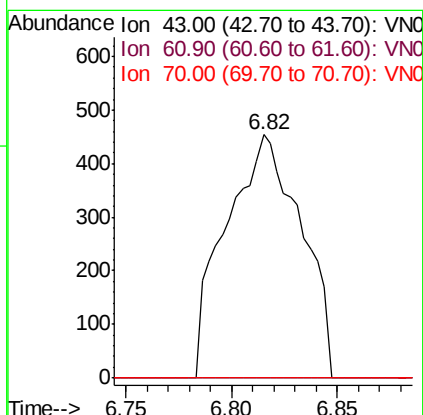
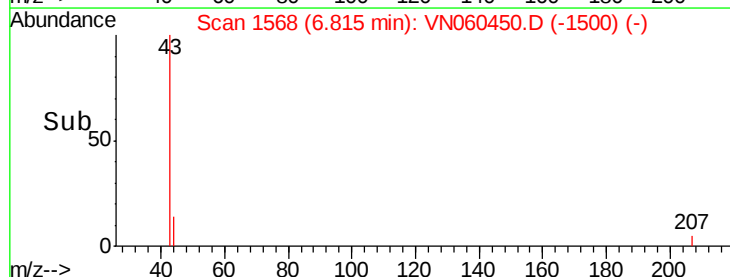
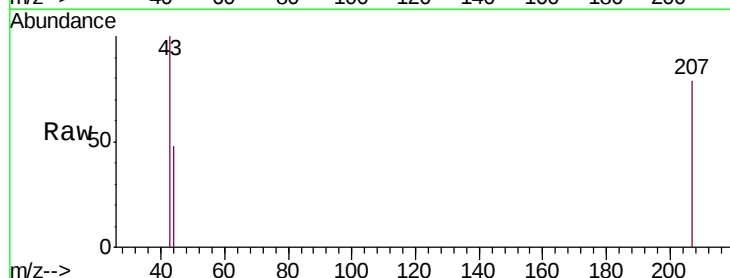
Tgt Ion: 43 Resp: 1126

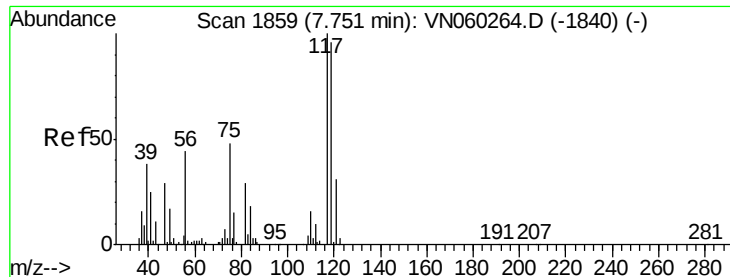
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.325 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

SP-1

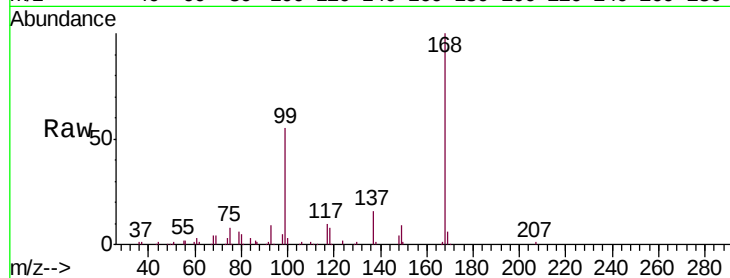
Tgt Ion:117 Resp: 18700

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

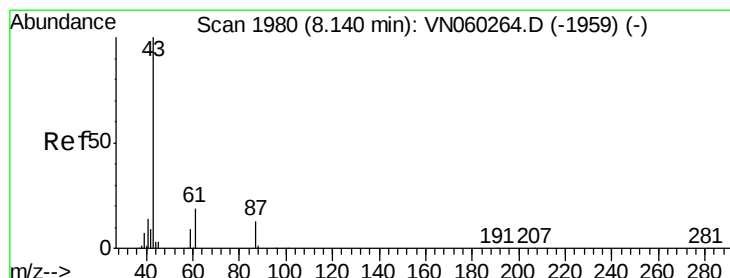
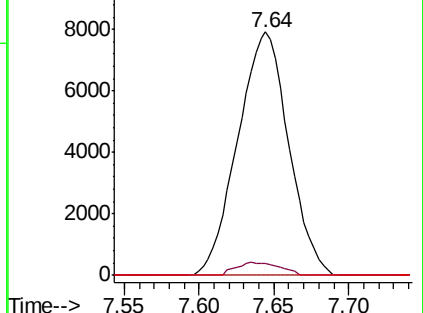
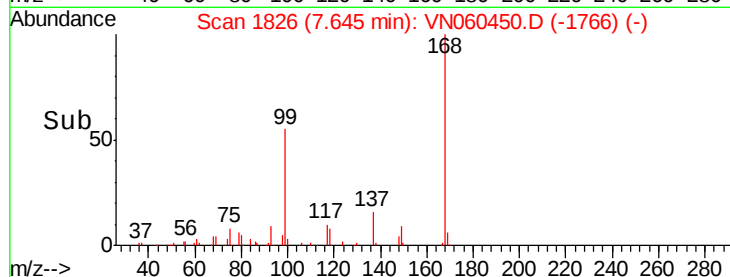
121 0.0 24.5 36.7#



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: 10.724 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

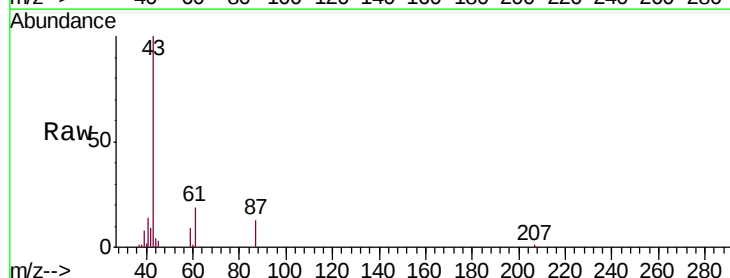
Tgt Ion: 43 Resp: 53983

Ion Ratio Lower Upper

43 100

61 19.6 20.9 31.3#

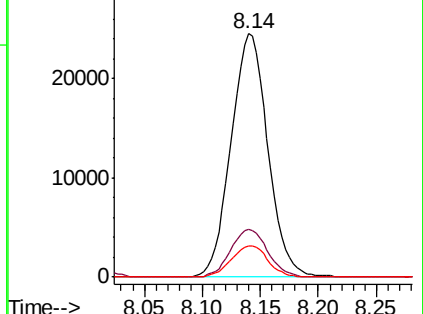
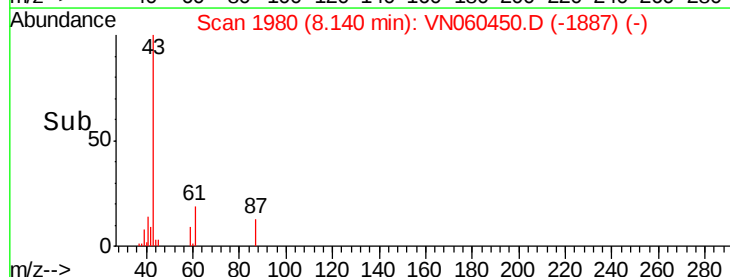
87 12.8 10.6 16.0

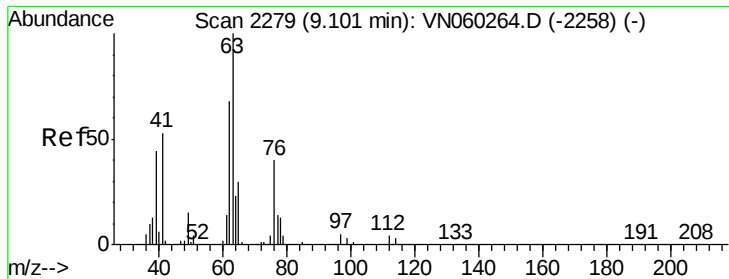


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.347 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

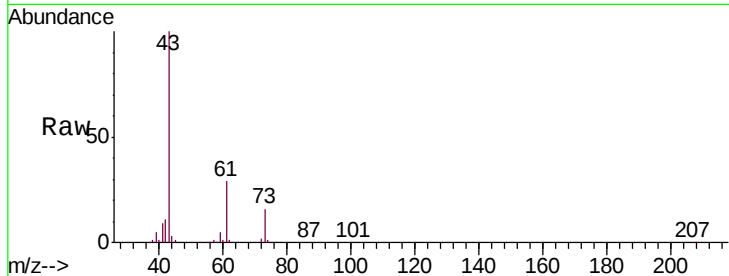
SP-1

Tgt Ion: 63 Resp: 802

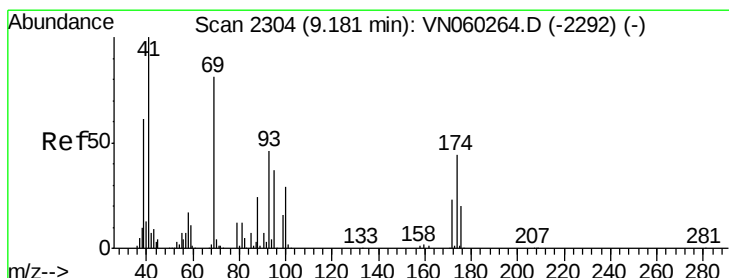
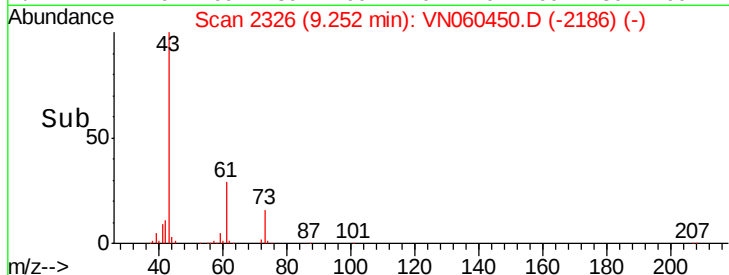
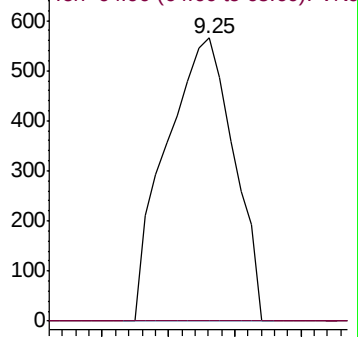
Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060450.D (-2186) (-)



#48

Methyl methacrylate

Concen: 1.185 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

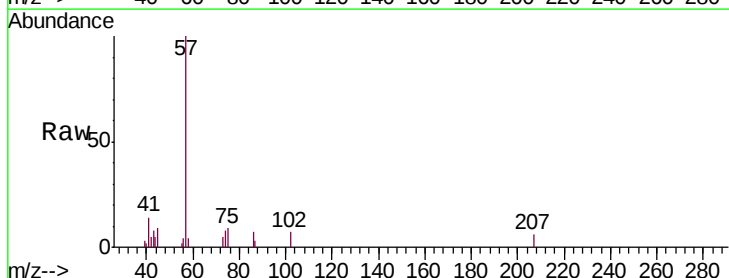
Tgt Ion: 41 Resp: 2720

Ion Ratio Lower Upper

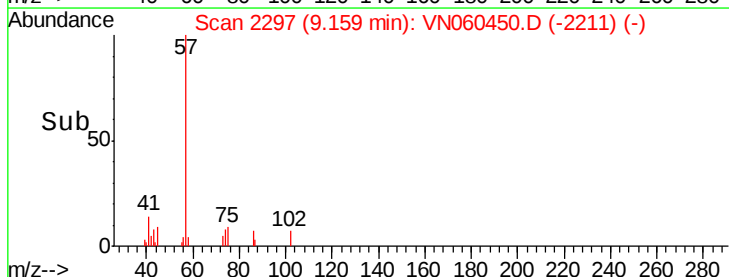
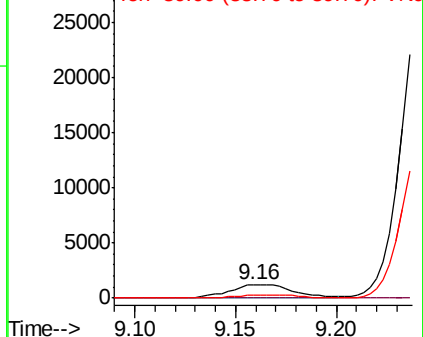
41 100

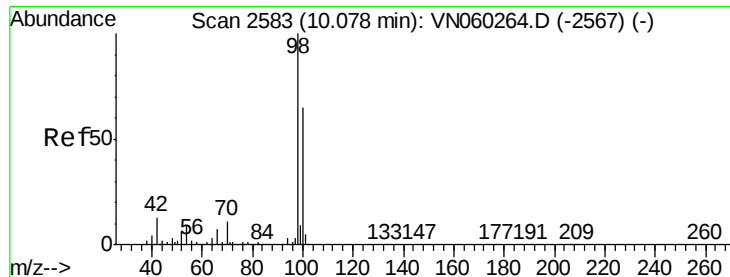
69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN060450.D (-2211) (-)





#50

Toluene-d8

Concen: 53.234 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

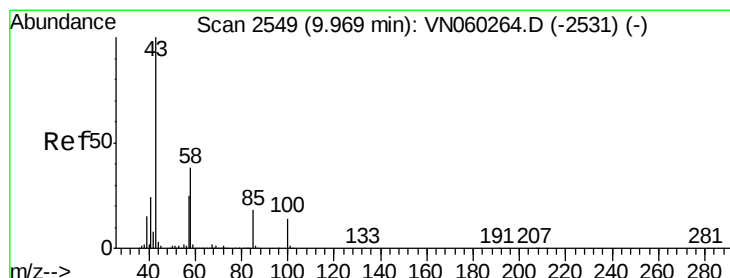
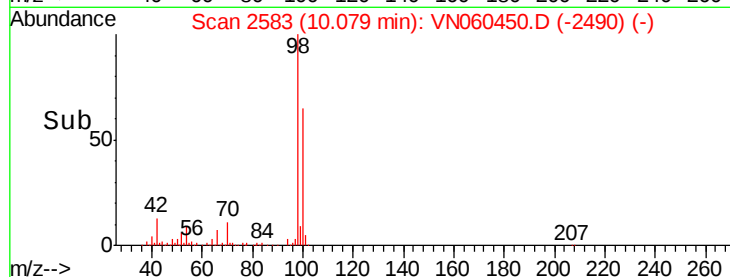
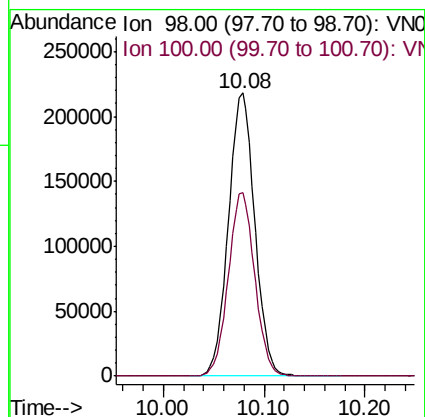
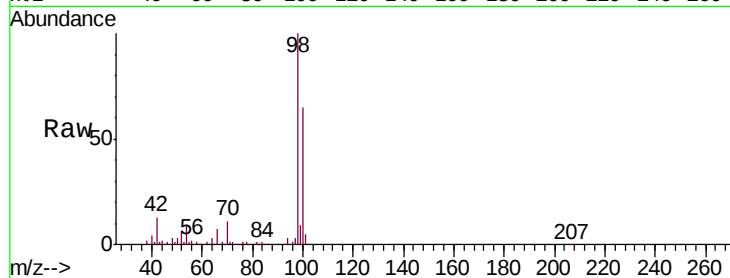
SP-1

Tgt Ion: 98 Resp: 398469

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.477 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060450.D

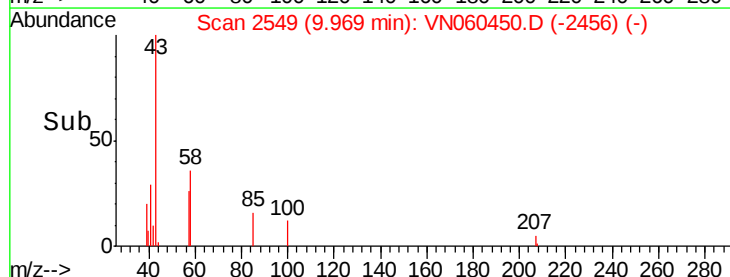
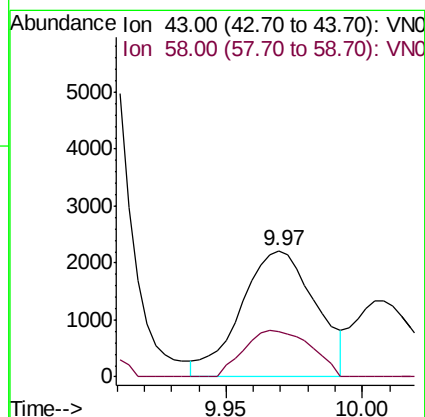
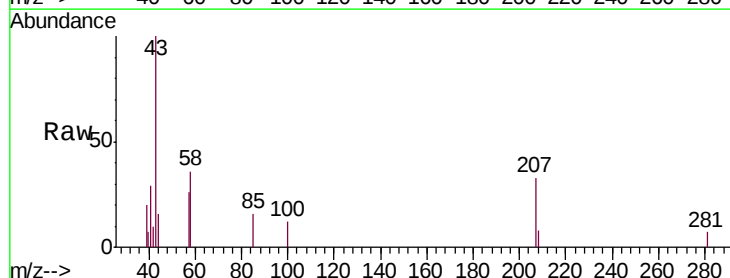
Acq: 11 Mar 2020 15:12

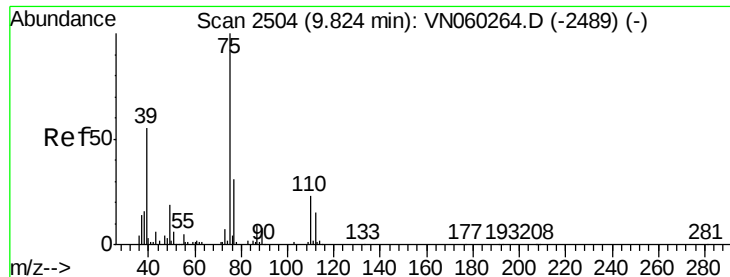
Tgt Ion: 43 Resp: 4216

Ion Ratio Lower Upper

43 100

58 33.1 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 6.069 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

SP-1

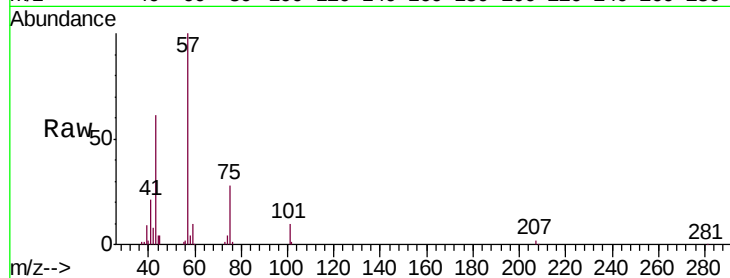
Tgt Ion: 75 Resp: 23501

Ion Ratio Lower Upper

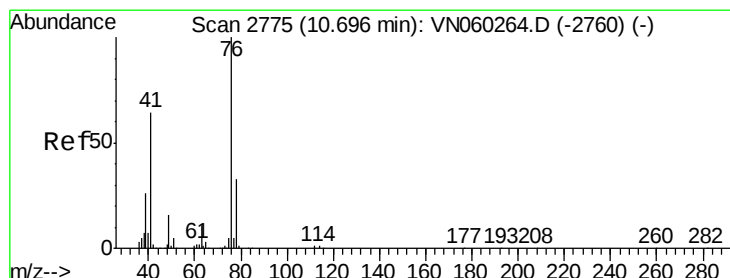
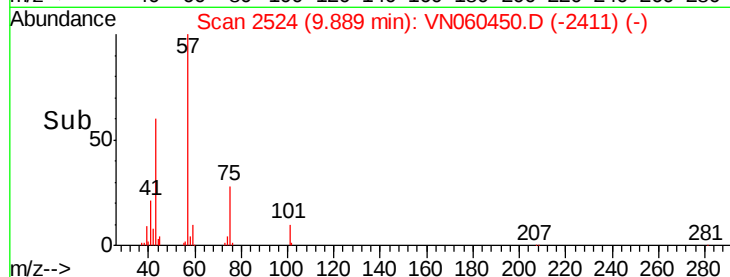
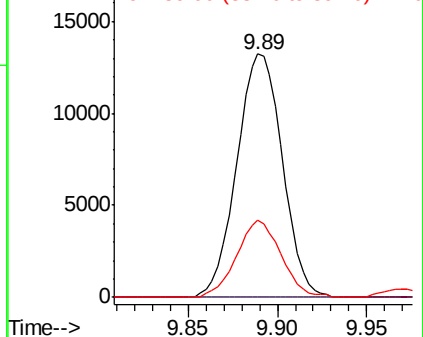
75 100

77 0.0 24.8 37.2#

39 31.5 43.8 65.8#



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



#57

1,3-Dichloropropene

Concen: 0.984 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060450.D

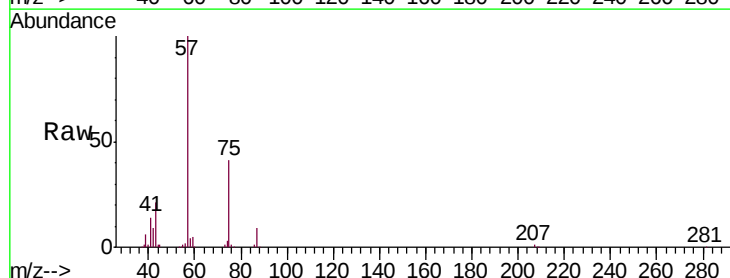
Acq: 11 Mar 2020 15:12

Tgt Ion: 76 Resp: 3583

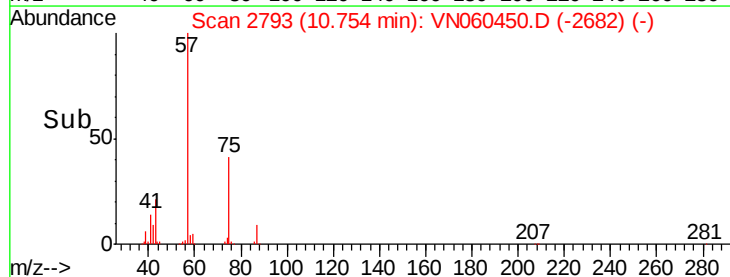
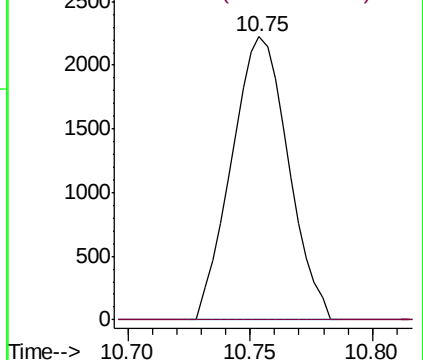
Ion Ratio Lower Upper

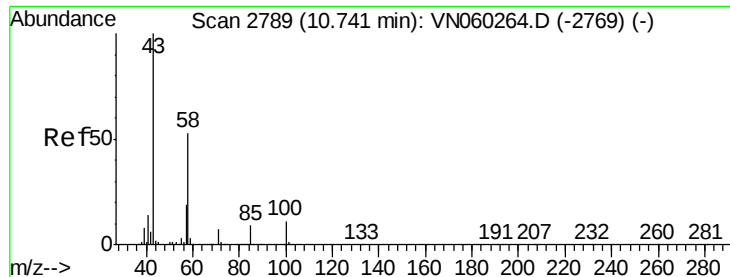
76 100

78 0.0 26.2 39.2#



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

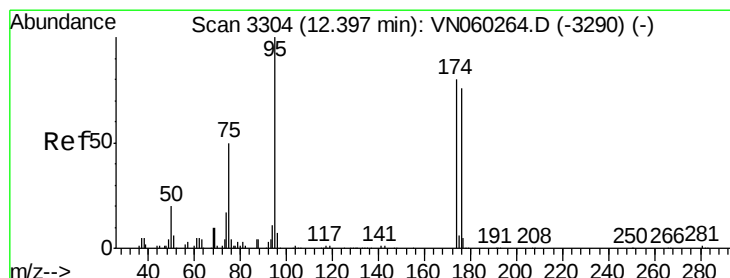
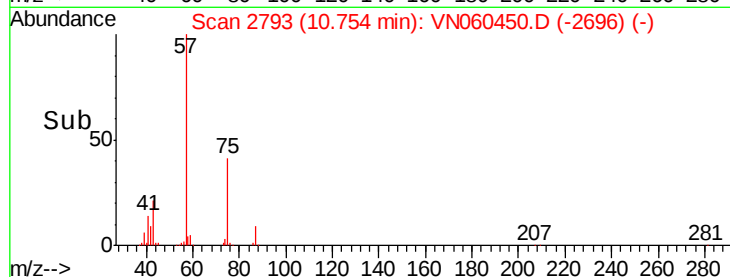
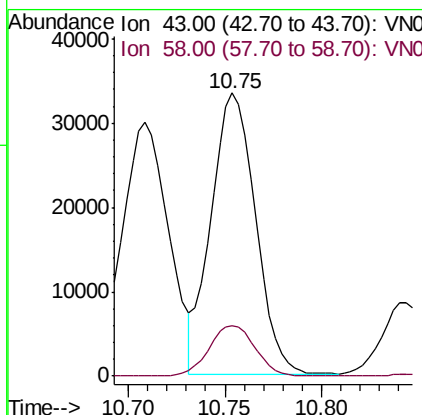
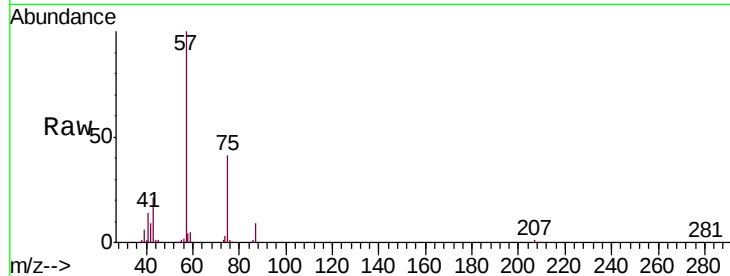




#59
2-Hexanone
Concen: 25.601 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060450.D
Acq: 11 Mar 2020 15:12

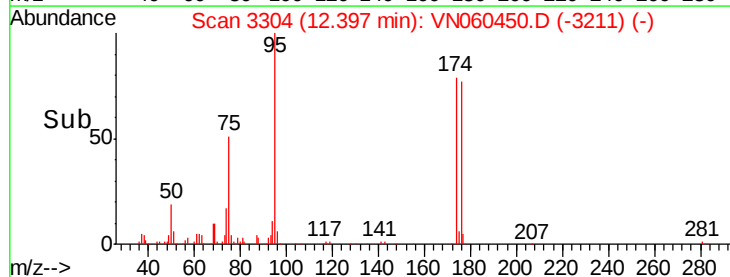
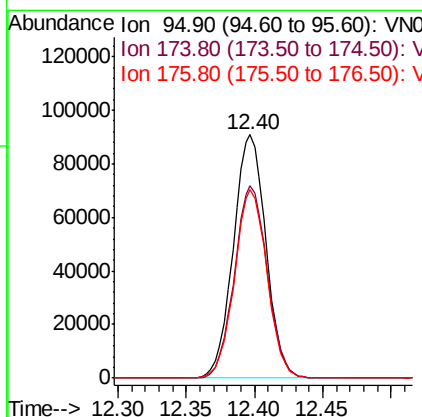
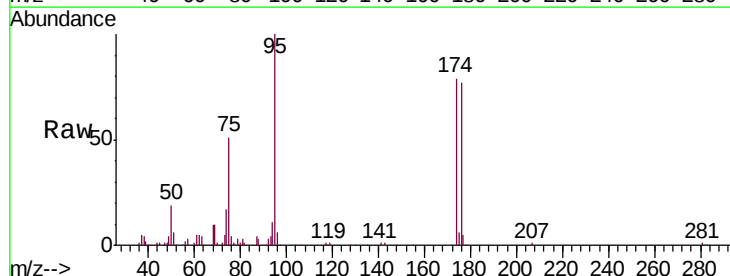
Instrument :
MSVOA_N
ClientSampled :
SP-1

Tgt Ion: 43 Resp: 53647
Ion Ratio Lower Upper
43 100
58 18.6 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 53.020 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060450.D
Acq: 11 Mar 2020 15:12

Tgt Ion: 95 Resp: 150441
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: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

SP-1

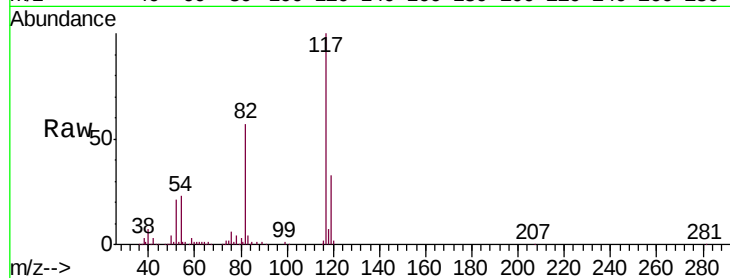
Tgt Ion:117 Resp: 302384

Ion Ratio Lower Upper

117 100

82 57.4 45.8 68.6

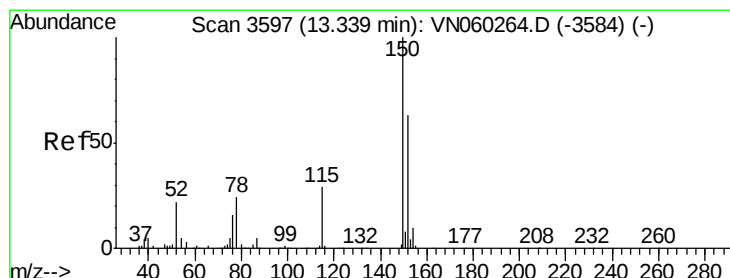
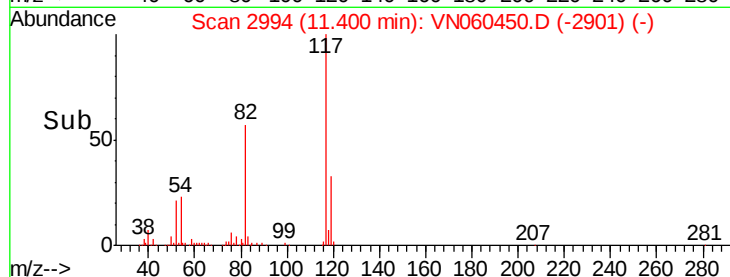
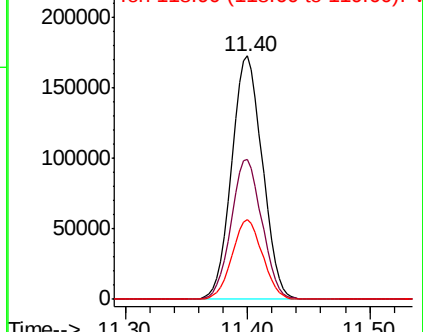
119 32.8 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

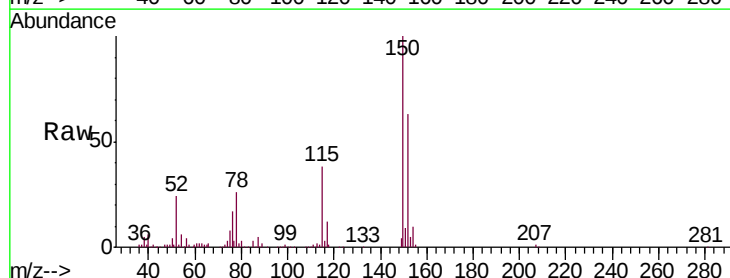
Tgt Ion:152 Resp: 142658

Ion Ratio Lower Upper

152 100

115 60.2 30.0 90.0

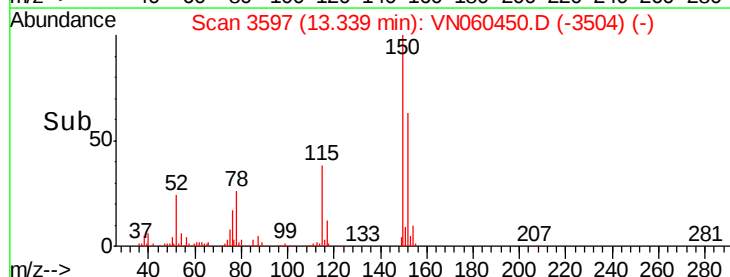
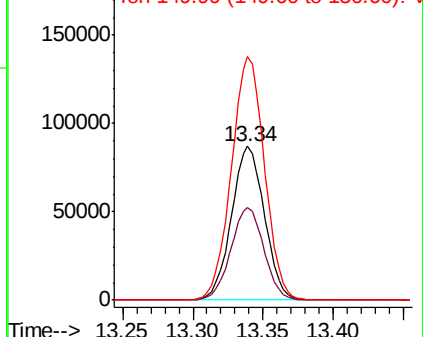
150 158.8 0.0 349.6

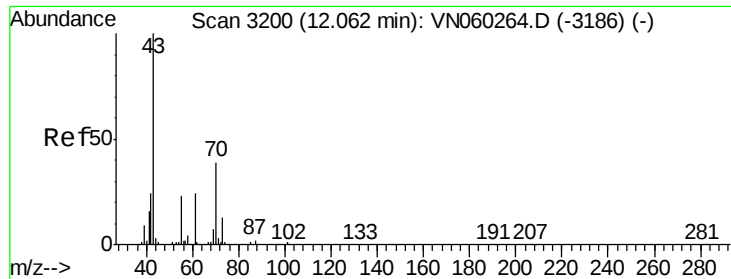


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.754 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

SP-1

Tgt Ion: 43 Resp: 3485

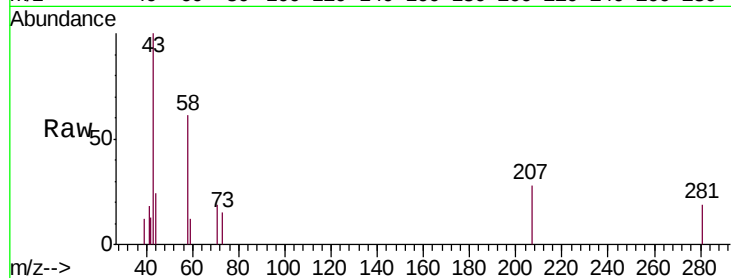
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

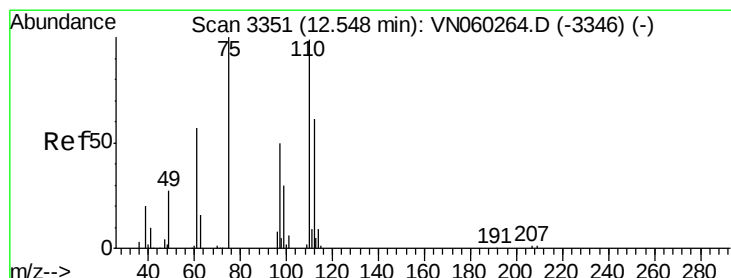
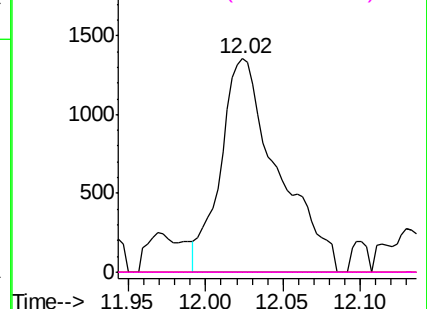
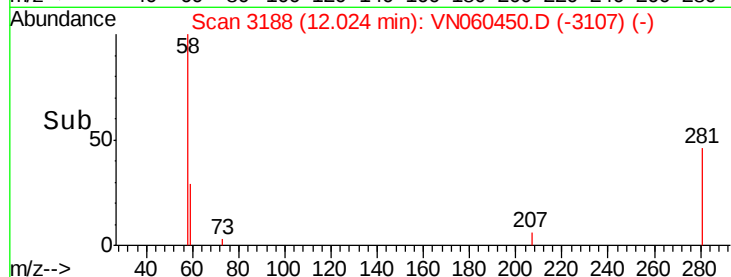


Abundance Ion 43.00 (42.70 to 43.70): VN060450.D (-3186) (-)

Ion 70.00 (69.70 to 70.70): VN060450.D (-3186) (-)

Ion 55.00 (54.70 to 55.70): VN060450.D (-3186) (-)

Ion 61.00 (60.70 to 61.70): VN060450.D (-3186) (-)



#76

1,2,3-Trichloropropane

Concen: 24.462 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060450.D

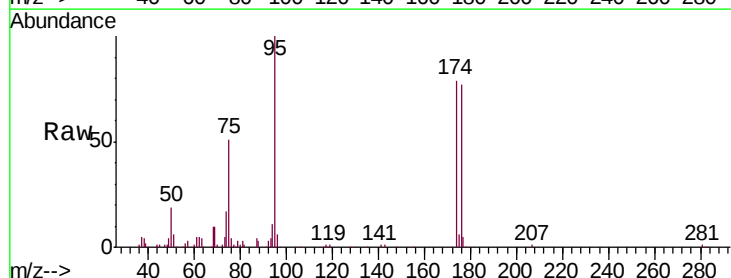
Acq: 11 Mar 2020 15:12

Tgt Ion: 75 Resp: 76564

Ion Ratio Lower Upper

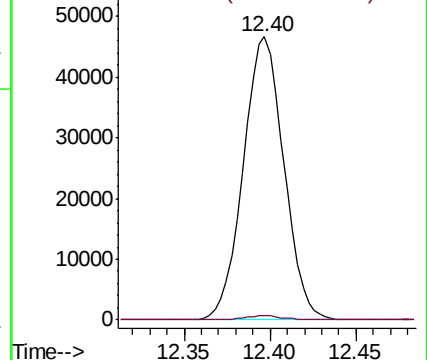
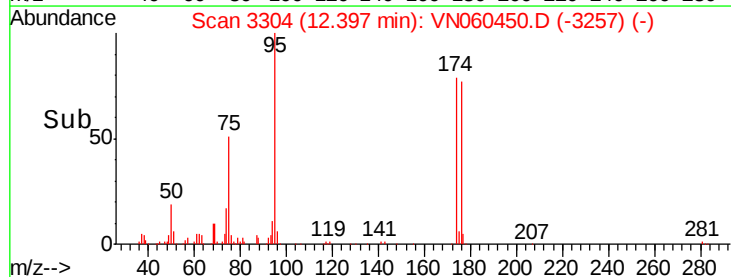
75 100

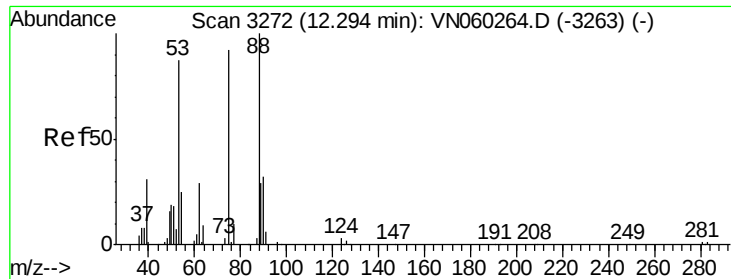
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060450.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060450.D (-3346) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 67.526 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

SP-1

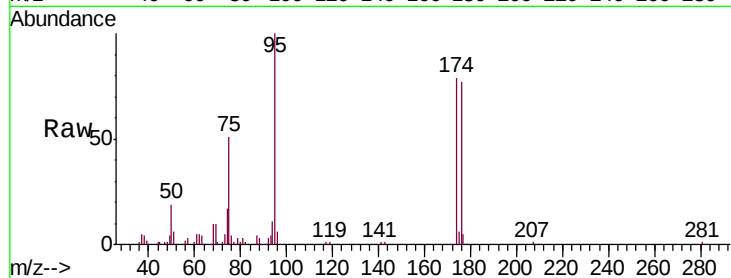
Tgt Ion: 75 Resp: 76564

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

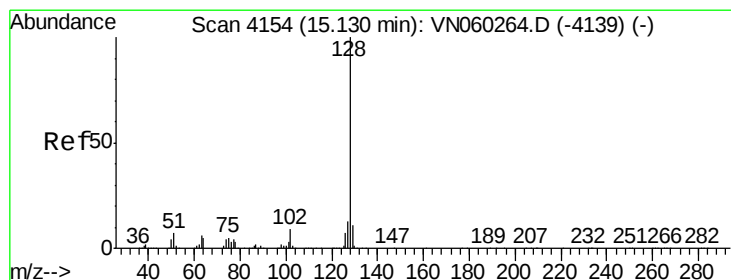
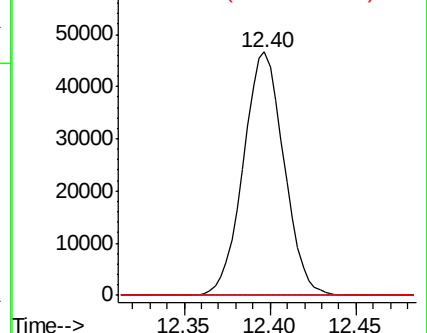
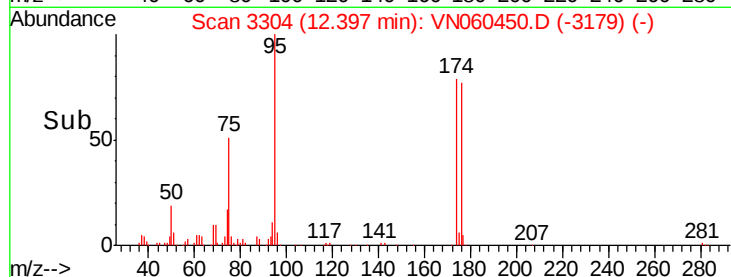
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060450.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060450.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060450.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.12 min Scan# 4152

Delta R.T. -0.01 min

Lab File: VN060450.D

Acq: 11 Mar 2020 15:12

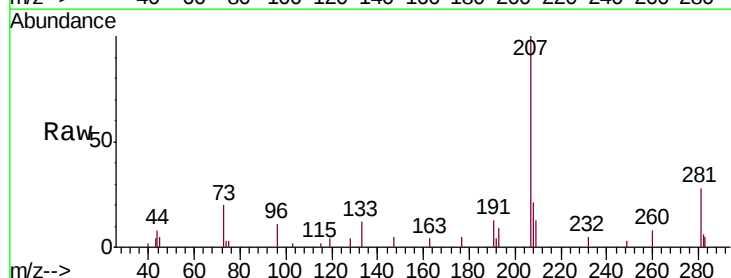
Tgt Ion: 128 Resp: 287

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): VN060450.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060450.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060450.D (-4060) (-)

