

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030220\
 Data File : VN060313.D
 Acq On : 2 Mar 2020 15:50
 Operator : JC/MD
 Sample : L1745-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 03 05:47:29 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	195132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	314431	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293285	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137745	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	125087	49.96	ug/l	0.00
Spiked Amount						
			Recovery	=	99.92%	
35) Dibromofluoromethane	7.57	113	90220	61.82	ug/l	0.00
Spiked Amount						
			Recovery	=	123.64%	
50) Toluene-d8	10.08	98	389377	52.71	ug/l	0.00
Spiked Amount						
			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.40	95	143414	51.22	ug/l	0.00
Spiked Amount						
			Recovery	=	102.44%	

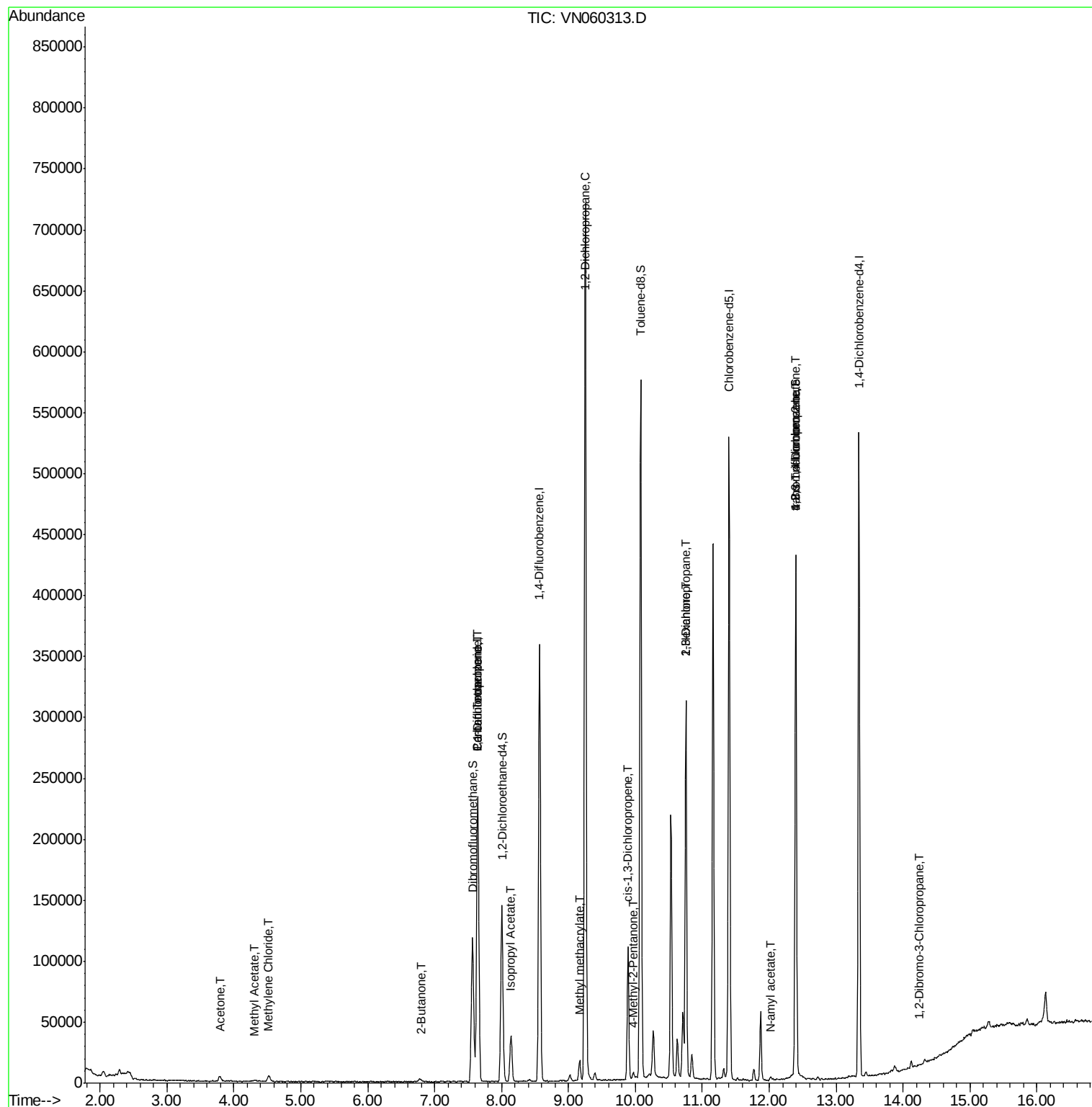
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.79	96	30	Below Cal	#	1
16) Acetone	3.79	43	7739	9.572	ug/l	100
18) Methyl Acetate	4.30	43	1554	0.576	ug/l #	52
20) Methylene Chloride	4.52	84	3556	1.602	ug/l	98
21) trans-1,2-Dichloroethene	4.76	96	59	Below Cal	#	1
25) 2-Butanone	6.80	43	1396	1.069	ug/l #	49
31) Cyclohexane	7.64	56	3991	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15458	5.158	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18327	6.281	ug/l #	16
43) Isopropyl Acetate	8.14	43	45325	9.124	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	852	0.374	ug/l #	44
48) Methyl methacrylate	9.16	41	2635	1.163	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4118	1.462	ug/l #	69
54) cis-1,3-Dichloropropene	9.89	75	19608	5.132	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2979	0.829	ug/l #	42
59) 2-Hexanone	10.75	43	45705	22.102	ug/l #	51
74) N-amyl acetate	12.02	43	2560	0.574	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	74919	24.790	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	74919	68.432	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.25	75	222	0.353	ug/l #	3
95) Naphthalene	15.13	128	242	Below Cal	#	69

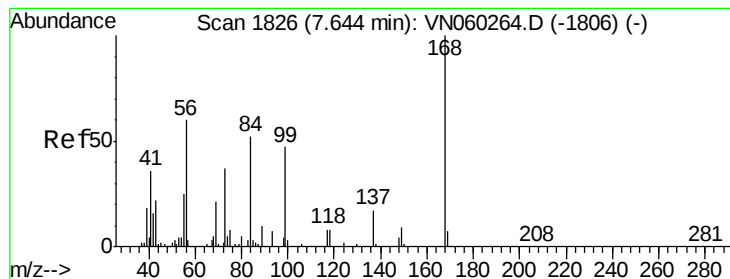
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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# 1826

Delta R.T. 0.00 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

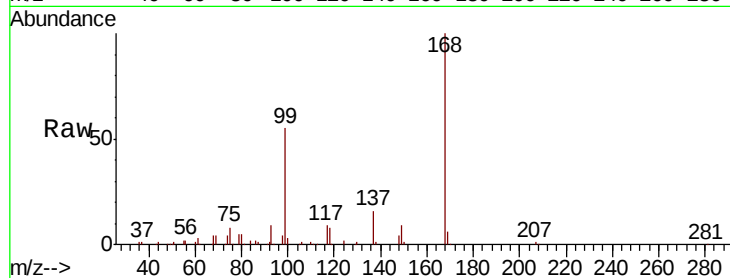
ClientSampled :

Tot Ion:168 Resp: 195132

Ion Ratio Lower Upper

168 100

99 55.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060313.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060313.D (-1733) (-)

7.64

80000

60000

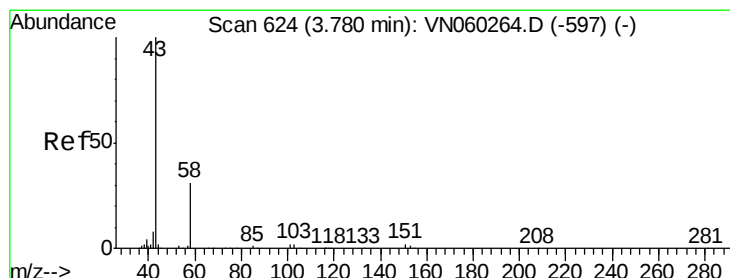
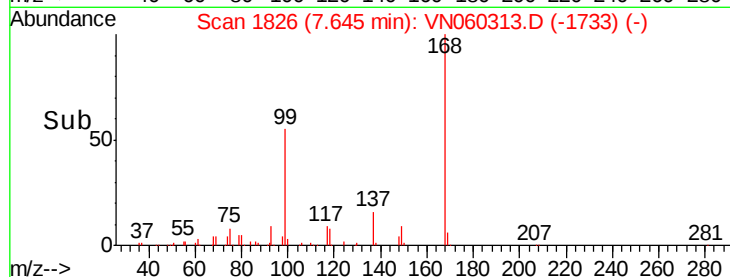
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 9.572 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060313.D

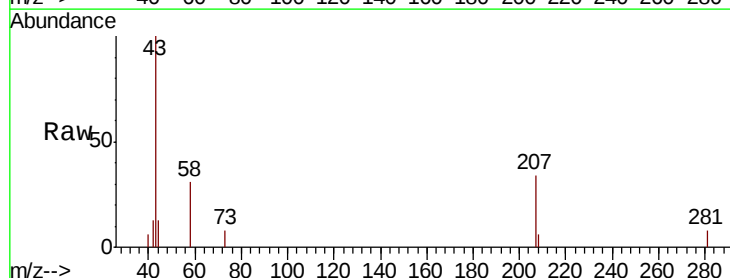
Acq: 2 Mar 2020 15:50

Tgt Ion: 43 Resp: 7739

Ion Ratio Lower Upper

43 100

58 30.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060313.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060313.D (-531) (-)

3.79

3000

2500

2000

1500

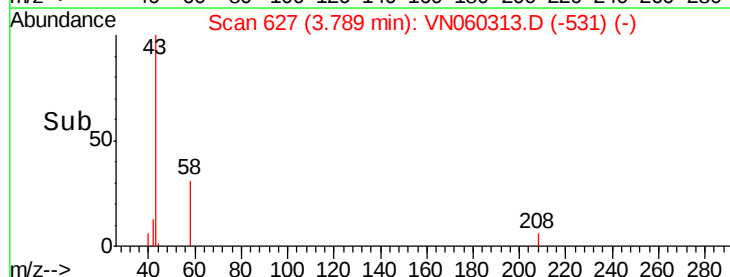
1000

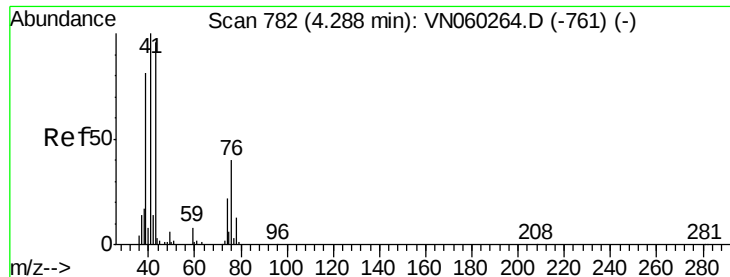
500

0

3.70 3.75 3.80 3.85 3.90

Time-->

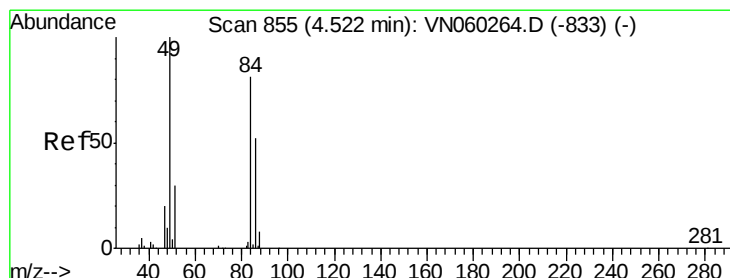
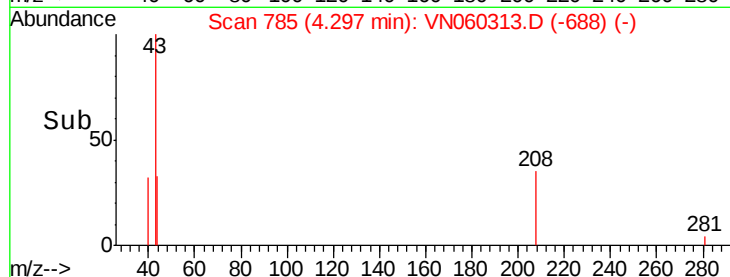
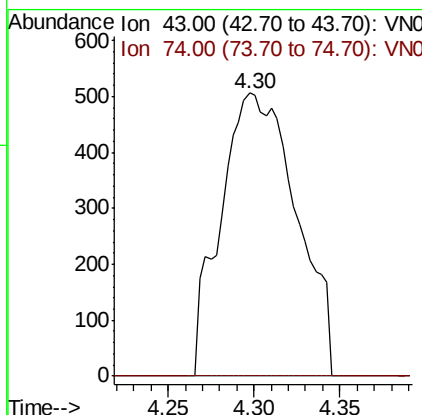
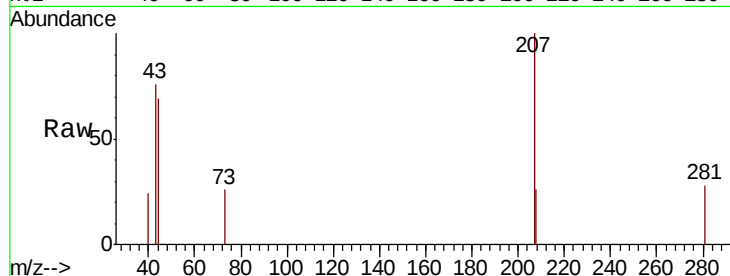




#18
Methyl Acetate
Concen: 0.576 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

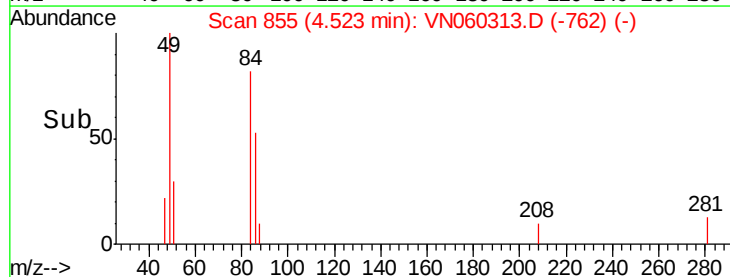
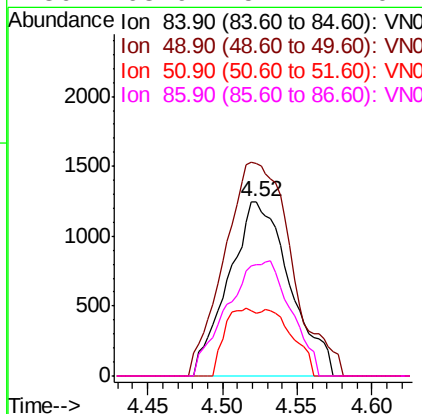
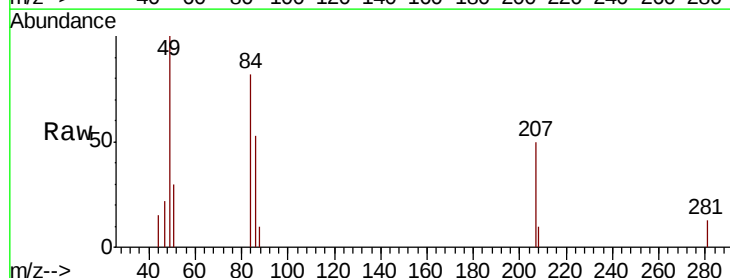
Instrument :
MSVOA_N
ClientSampleId :

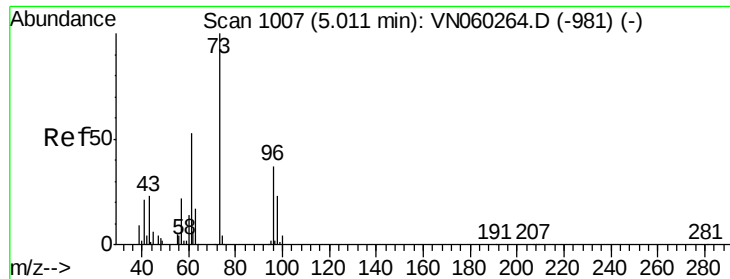
Tot Ion: 43 Resp: 1554
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.602 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

Tgt Ion: 84 Resp: 3556
Ion Ratio Lower Upper
84 100
49 121.6 99.3 148.9
51 36.1 30.1 45.1
86 63.9 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 4.76 min Scan# 928

Delta R.T. -0.25 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

ClientSampled :

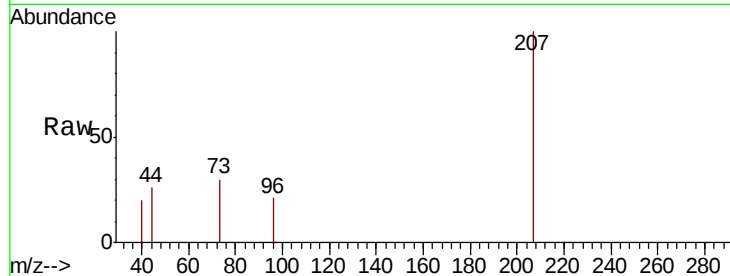
Tot Ion: 96 Resp: 59

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

4.76

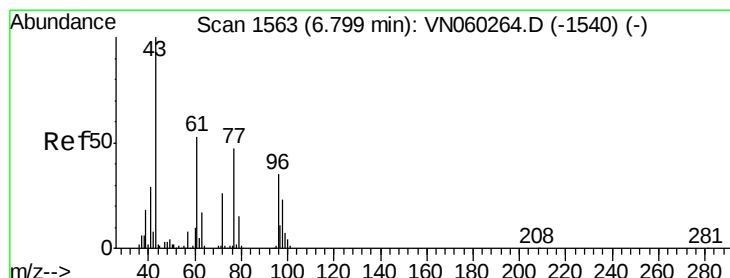
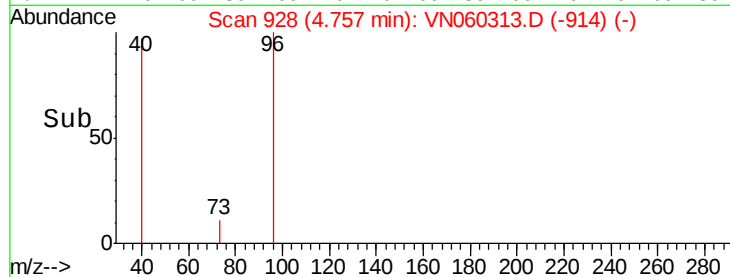
150

100

50

0

Time--> 4.74 4.75 4.76



#25

2-Butanone

Concen: 1.069 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060313.D

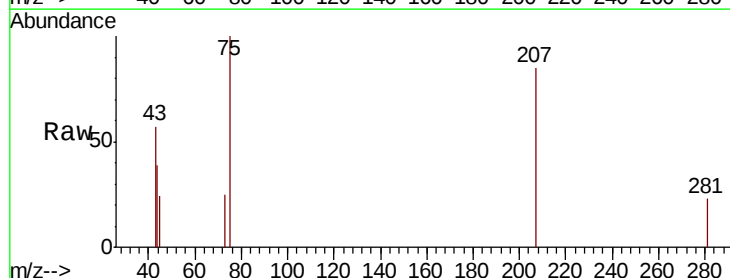
Acq: 2 Mar 2020 15:50

Tgt Ion: 43 Resp: 1396

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

6.80

500

400

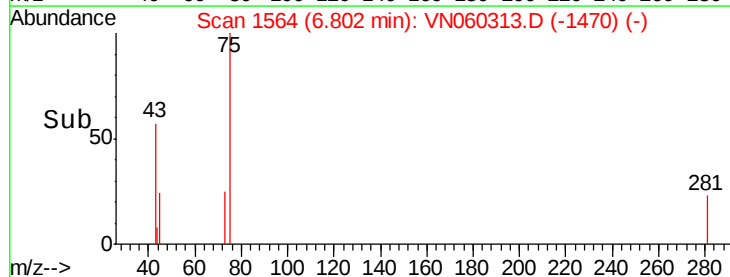
300

200

100

0

Time--> 6.75 6.80 6.85





#33

1,2-Dichloroethane-d4

Concen: 49.963 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

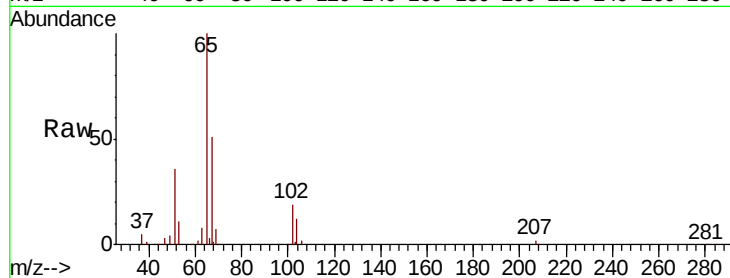
ClientSampled :

Tot Ion: 65 Resp: 125087

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060313.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060313.D (-1845) (-)

8.00

60000

50000

40000

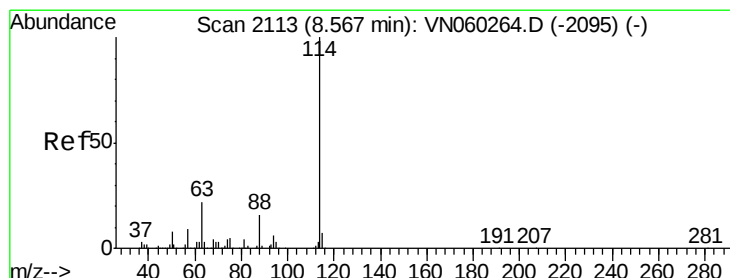
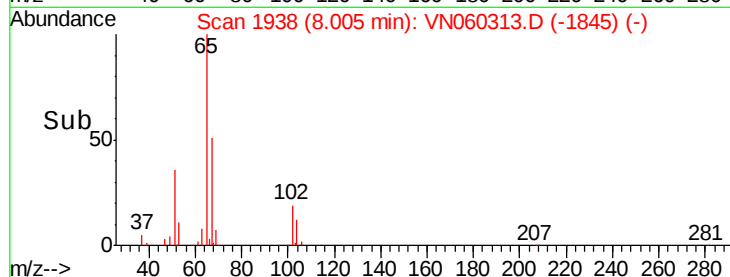
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

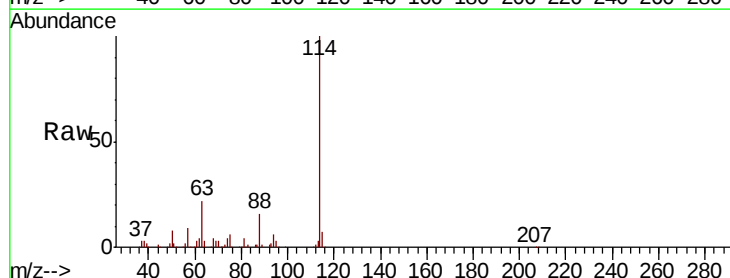
Tgt Ion: 114 Resp: 314431

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

88 16.0 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN060313.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060313.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060313.D (-2020) (-)

8.57

200000

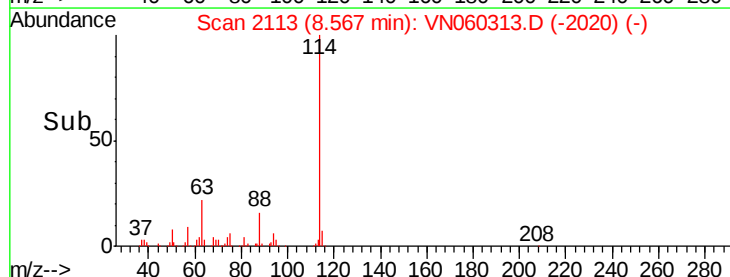
150000

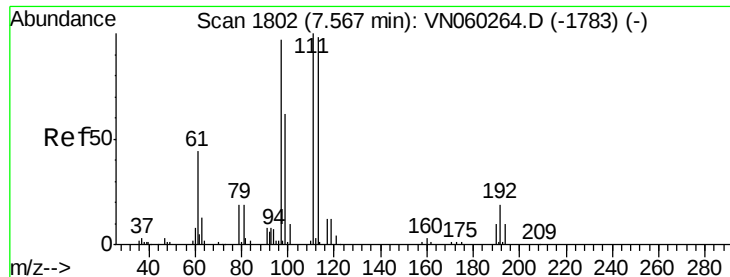
100000

50000

0

Time-->

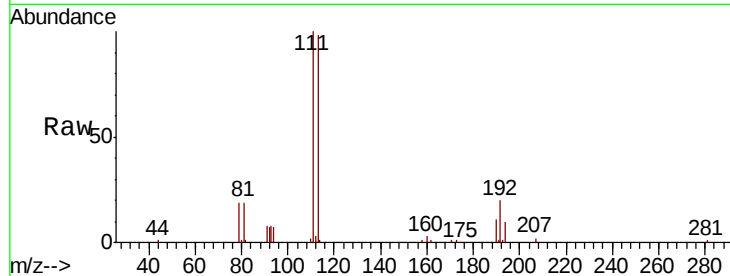




#35
 Dibromofluoromethane
 Concen: 61.816 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060313.D
 Acq: 2 Mar 2020 15:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	20.3	16.2	24.2

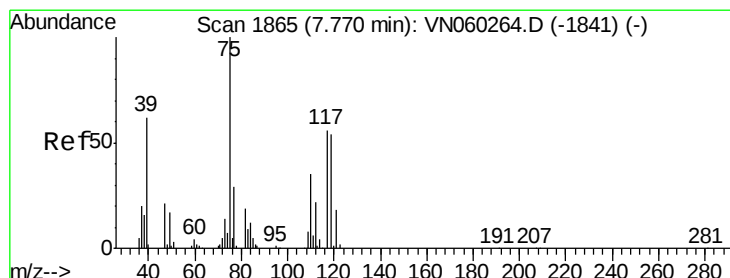
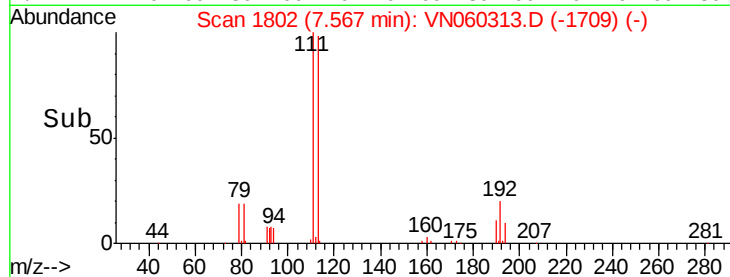
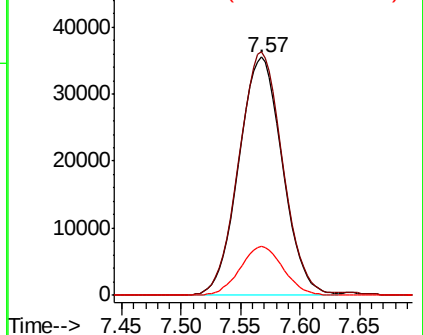


Abundance

Ion 112.80 (112.50 to 113.50): V

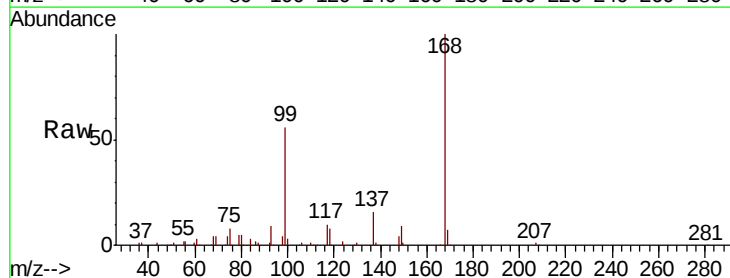
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.158 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060313.D
 Acq: 2 Mar 2020 15:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	17.3	52.0#
77	0.0	24.2	36.2#

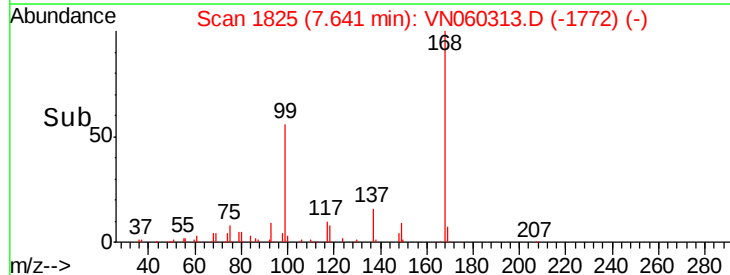
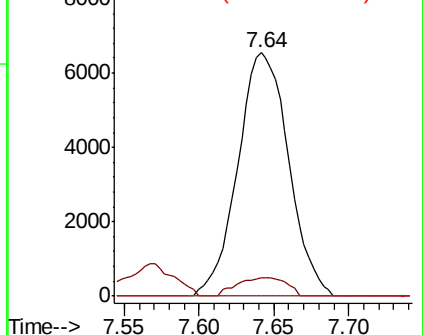


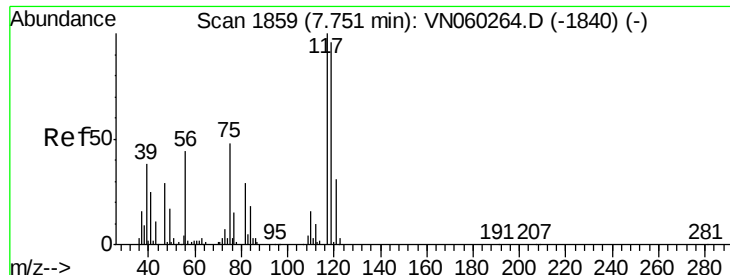
Abundance

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: 6.281 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

ClientSampled :

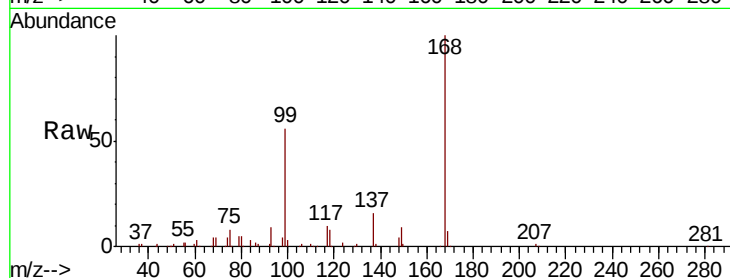
Tot Ion:117 Resp: 18327

Ion Ratio Lower Upper

117 100

119 4.9 76.7 115.1#

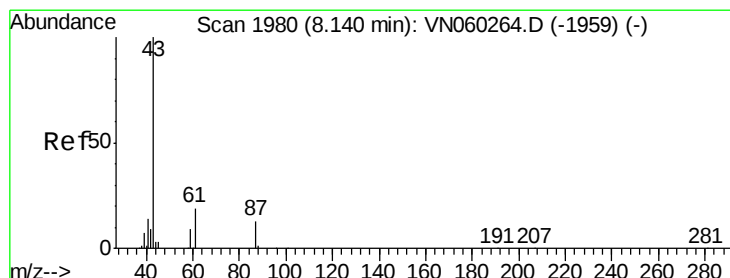
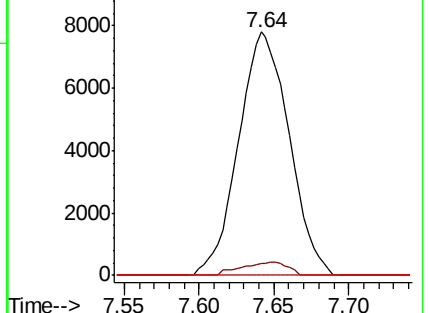
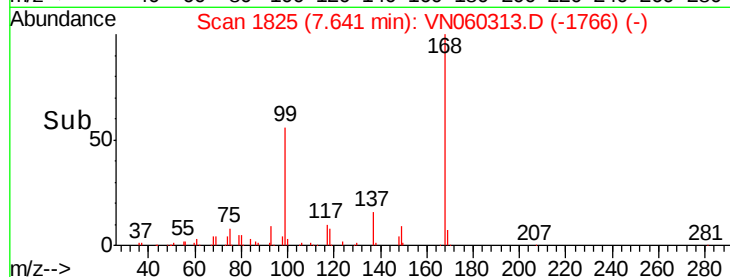
121 0.0 24.5 36.7#



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: 9.124 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

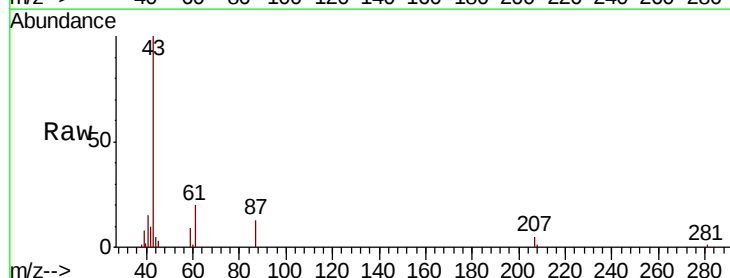
Tgt Ion: 43 Resp: 45325

Ion Ratio Lower Upper

43 100

61 20.1 20.9 31.3#

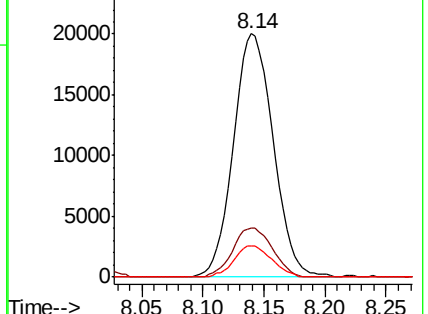
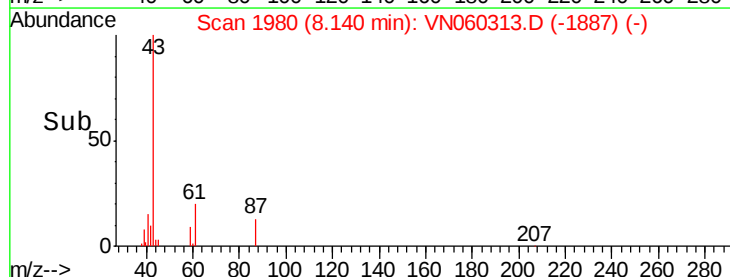
87 12.1 10.6 16.0

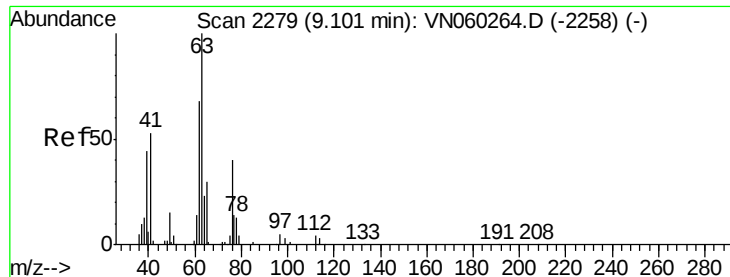


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.374 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

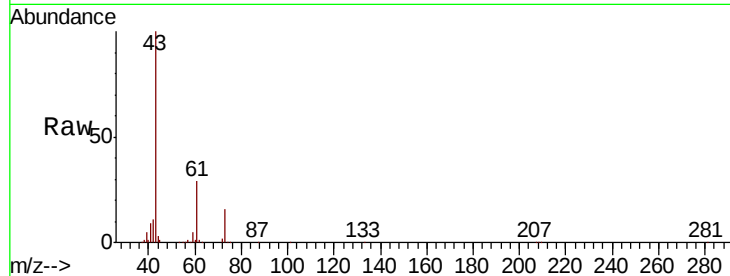
ClientSampleId :

Tot Ion: 63 Resp: 852

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

500

400

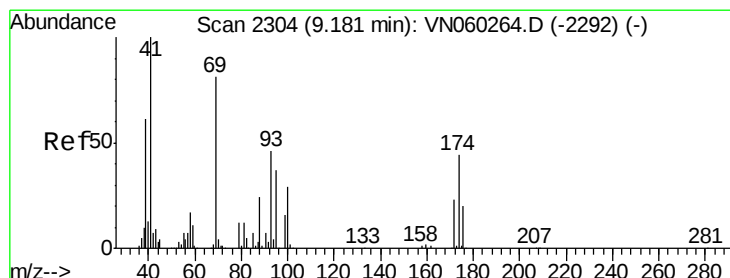
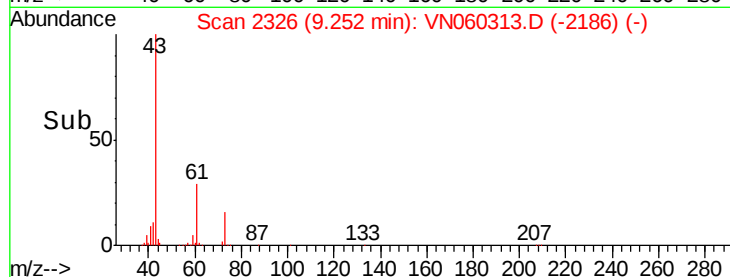
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.163 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

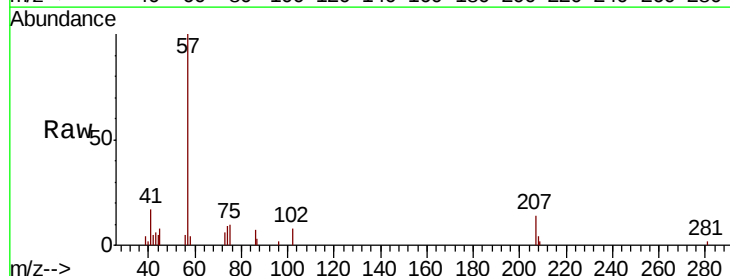
Tgt Ion: 41 Resp: 2635

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

40000

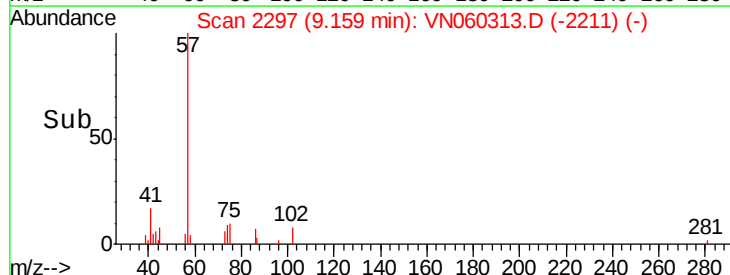
30000

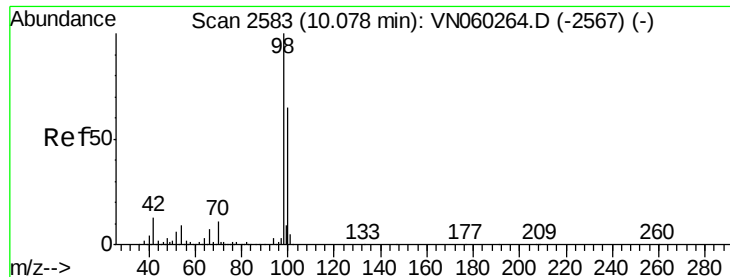
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 52.714 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

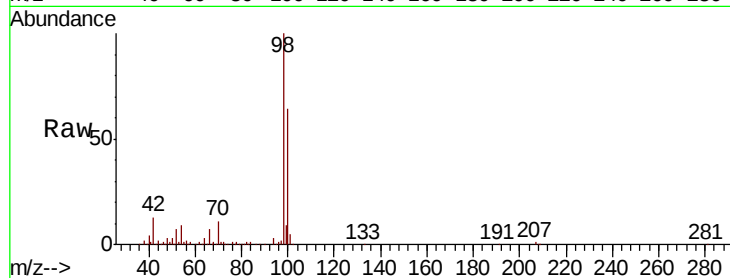
ClientSampleId :

Tot Ion: 98 Resp: 389377

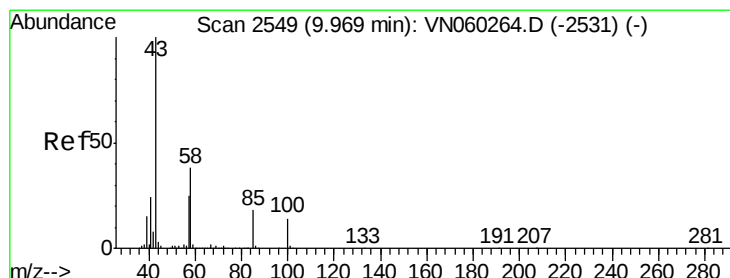
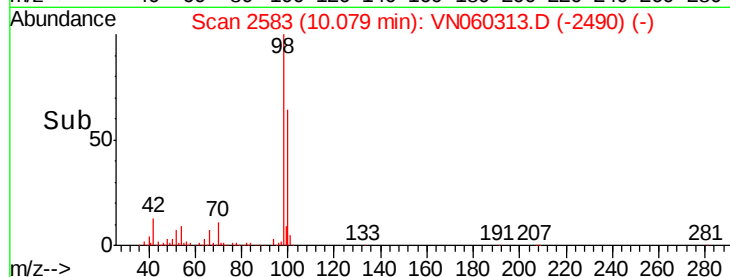
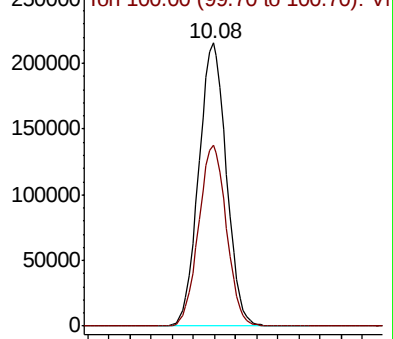
Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060313.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.462 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060313.D

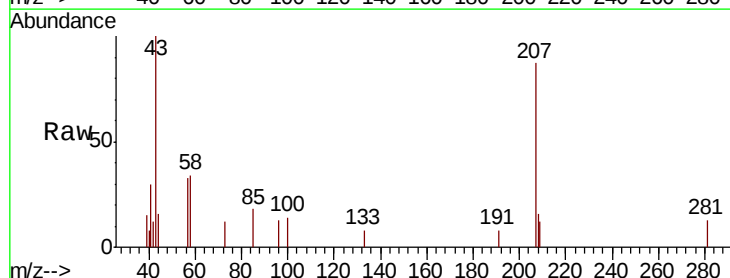
Acq: 2 Mar 2020 15:50

Tgt Ion: 43 Resp: 4118

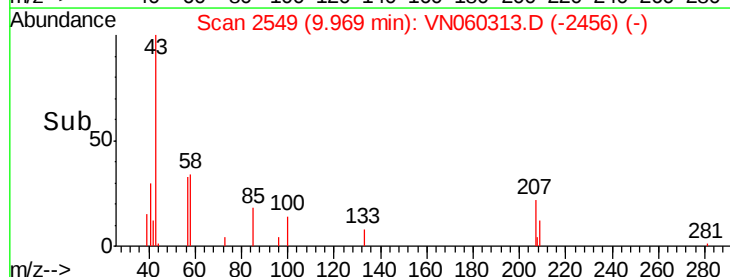
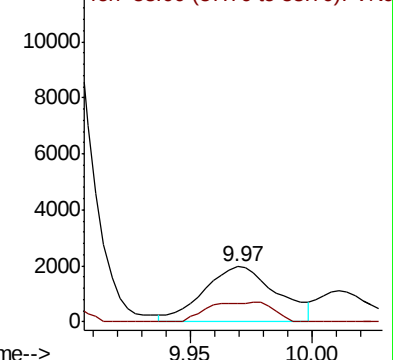
Ion Ratio Lower Upper

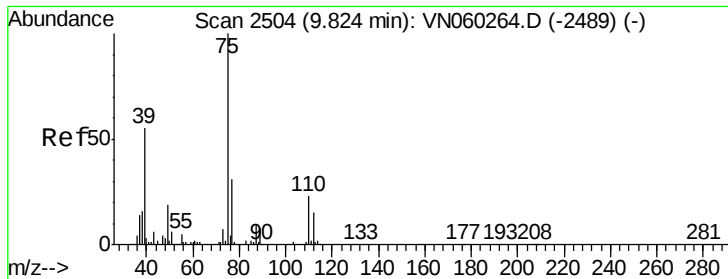
43 100

58 19.9 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060313.D (-2456) (-)



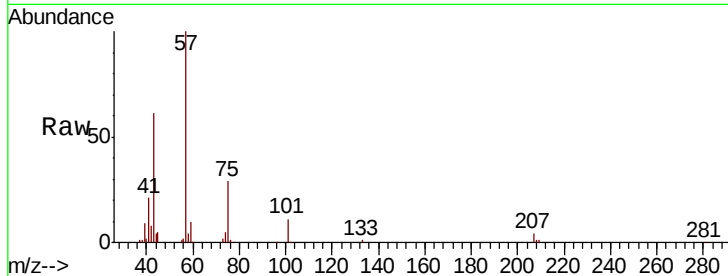


#54

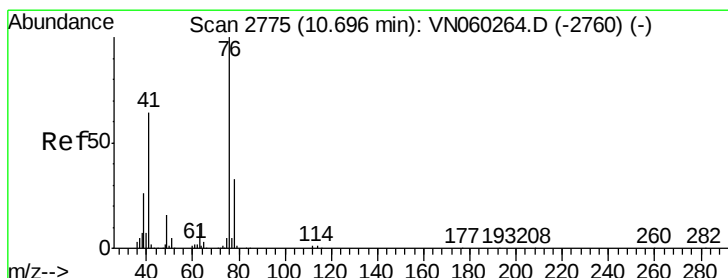
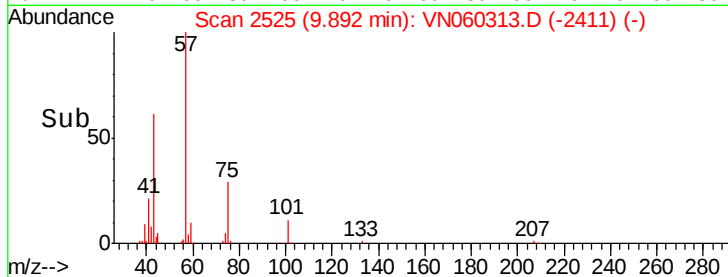
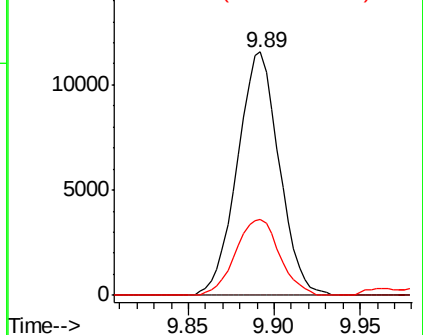
cis-1,3-Dichloropropene
 Concen: 5.132 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN060313.D
 Acq: 2 Mar 2020 15:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	31.2	43.8	65.8#



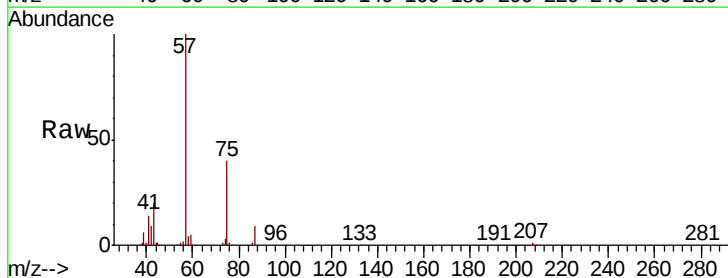
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



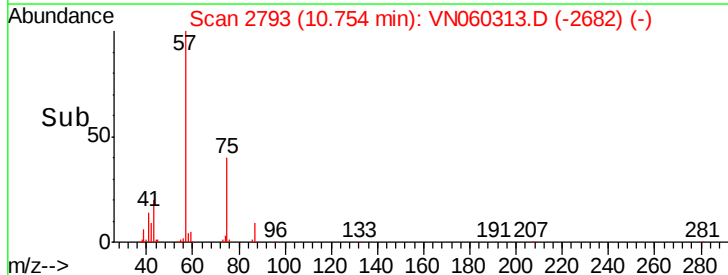
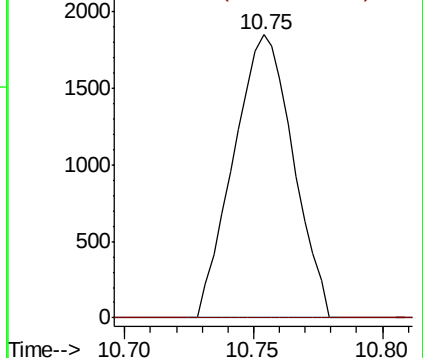
#57

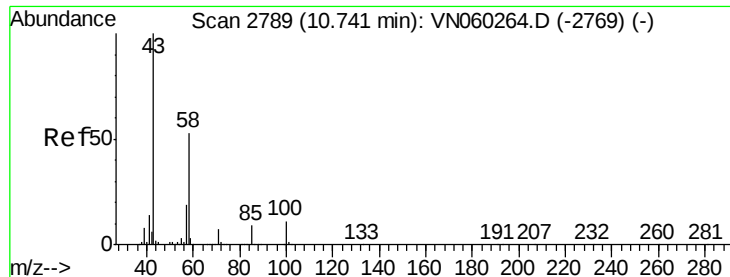
1,3-Dichloropropane
 Concen: 0.829 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060313.D
 Acq: 2 Mar 2020 15:50

Tgt 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

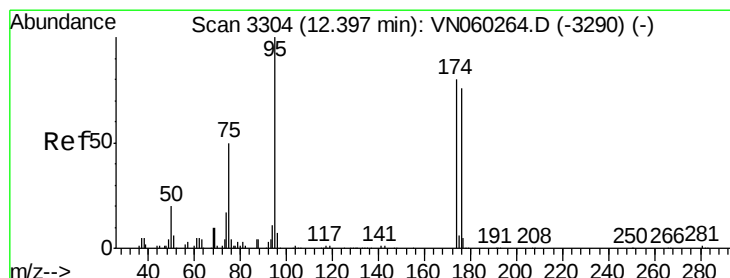
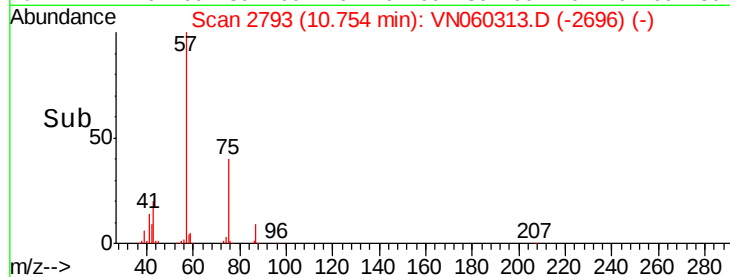
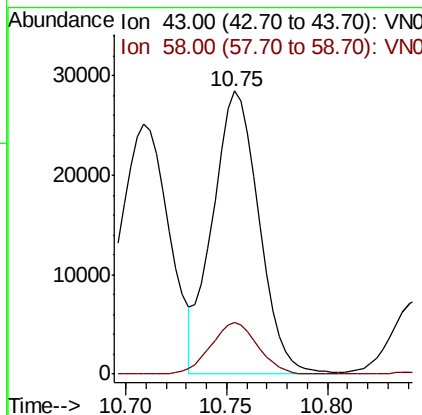
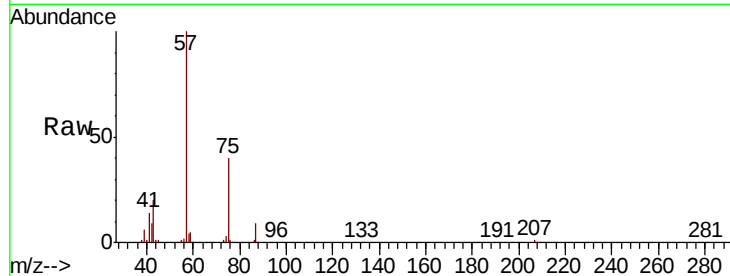




#59
2-Hexanone
Concen: 22.102 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

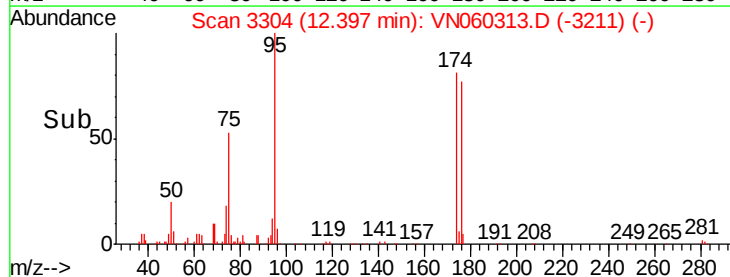
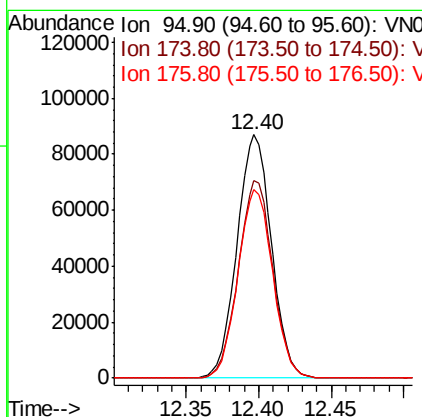
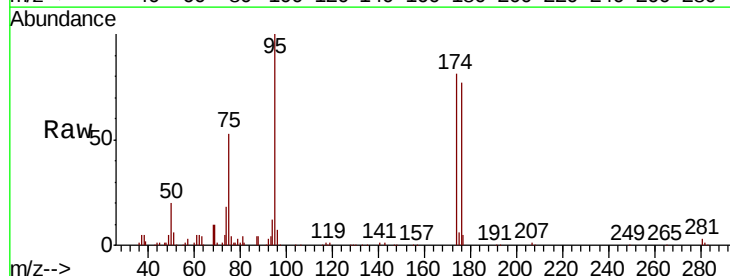
Instrument :
MSVOA_N
ClientSampleId :

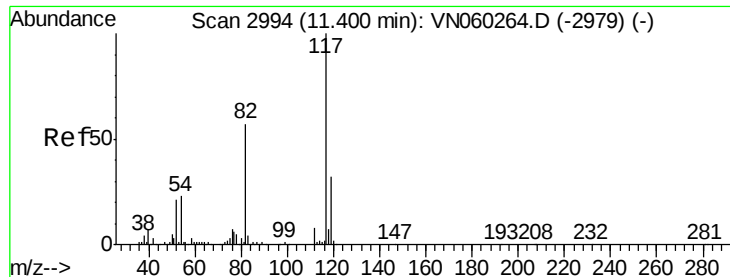
Tot Ion: 43 Resp: 45705
Ion Ratio Lower Upper
43 100
58 18.4 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.218 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

Tgt Ion: 95 Resp: 143414
Ion Ratio Lower Upper
95 100
174 81.5 0.0 159.2
176 78.0 0.0 153.8

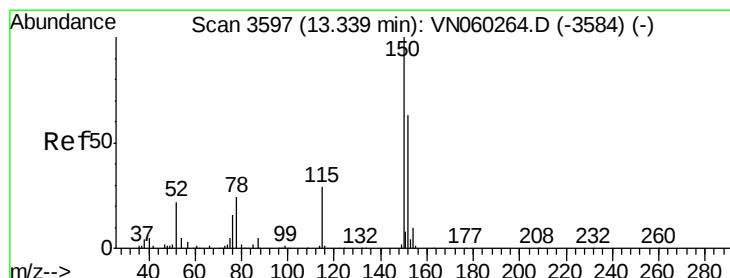
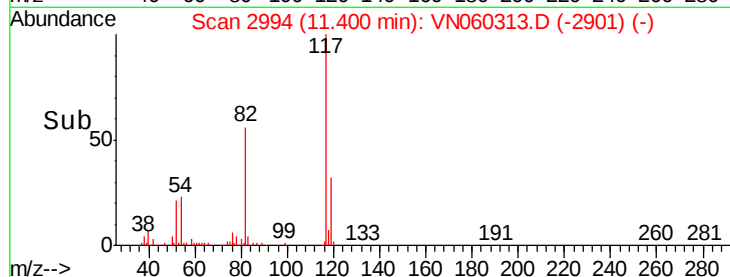
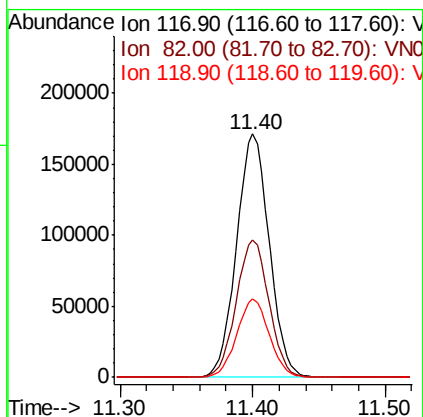
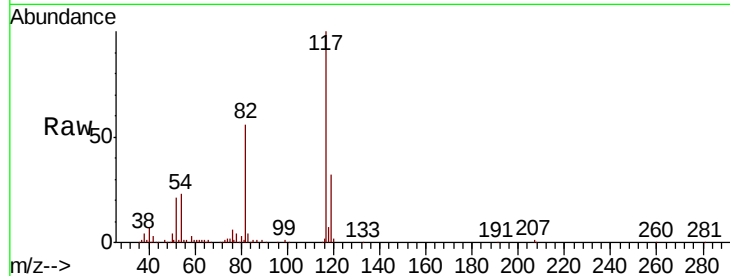




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

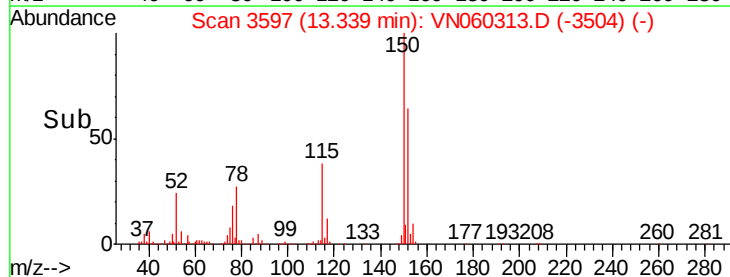
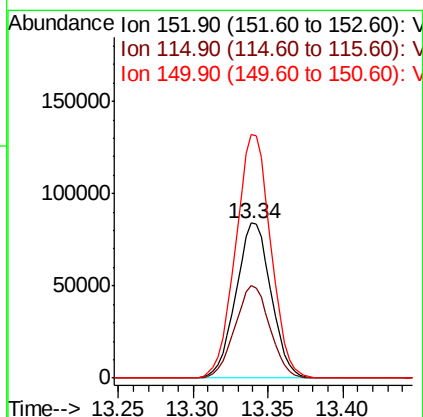
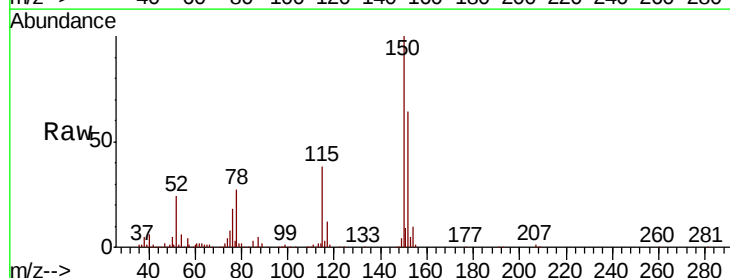
Instrument :
MSVOA_N
ClientSampled :

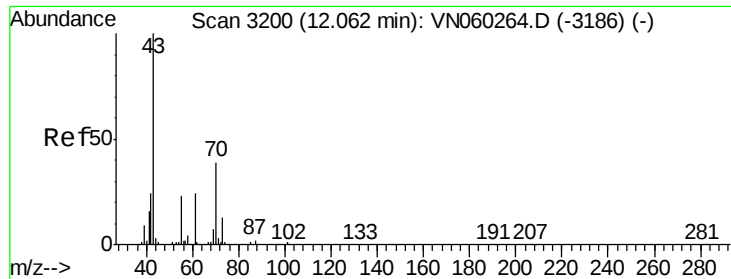
Tot Ion:117 Resp: 293285
Ion Ratio Lower Upper
117 100
82 56.4 45.8 68.6
119 32.2 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

Tgt Ion:152 Resp: 137745
Ion Ratio Lower Upper
152 100
115 59.4 30.0 90.0
150 156.5 0.0 349.6





#74

N-amvl acetate

Concen: 0.574 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2560

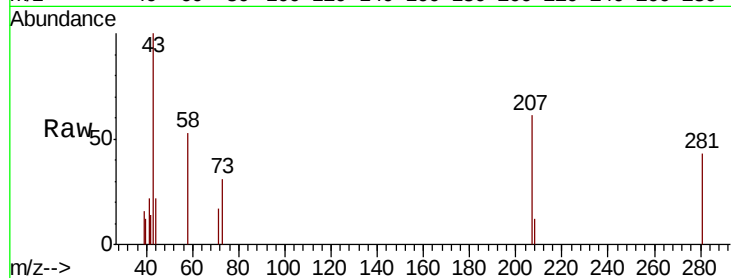
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

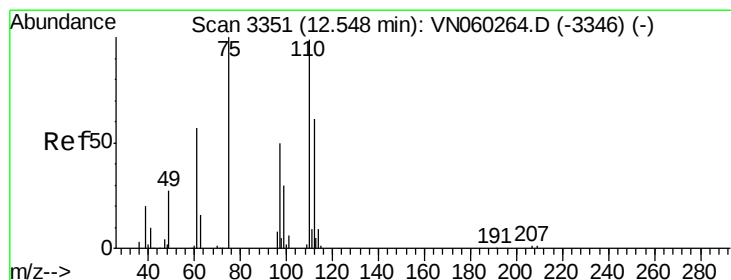
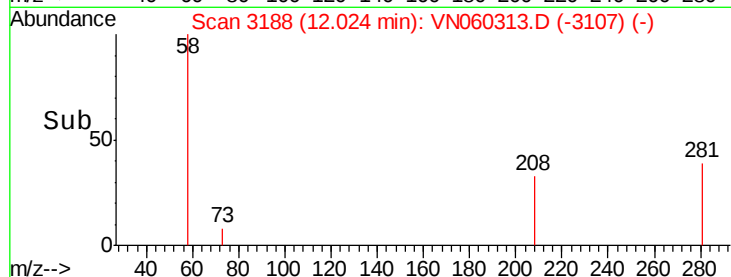
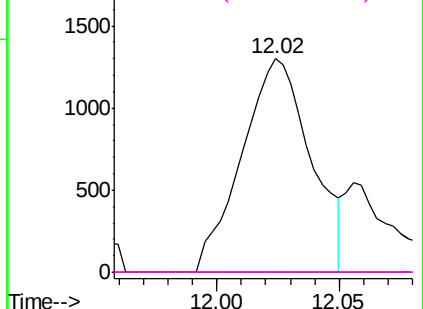


Abundance Ion 43.00 (42.70 to 43.70): VN060313.D (-3186) (-)

Ion 70.00 (69.70 to 70.70): VN060313.D (-3186) (-)

Ion 55.00 (54.70 to 55.70): VN060313.D (-3186) (-)

Ion 61.00 (60.70 to 61.70): VN060313.D (-3186) (-)



#76

1,2,3-Trichloropropane

Concen: 24.790 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060313.D

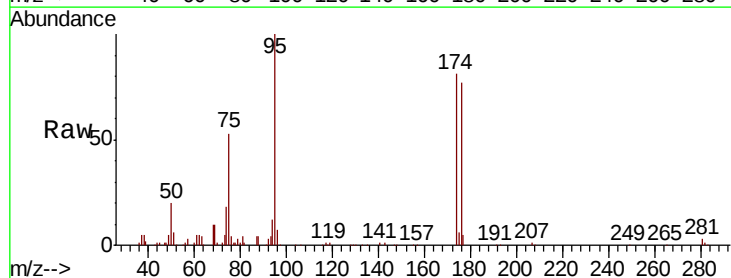
Acq: 2 Mar 2020 15:50

Tgt Ion: 75 Resp: 74919

Ion Ratio Lower Upper

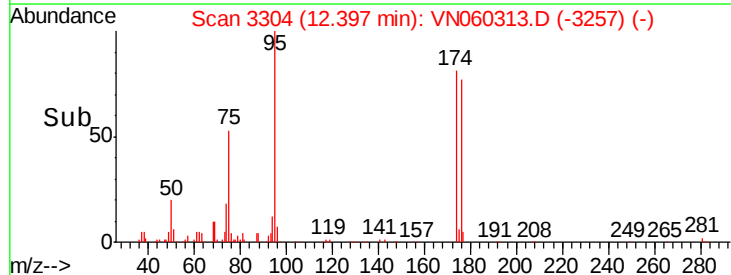
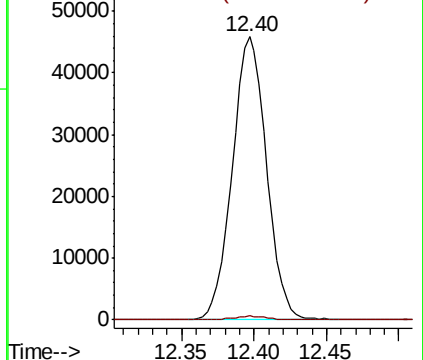
75 100

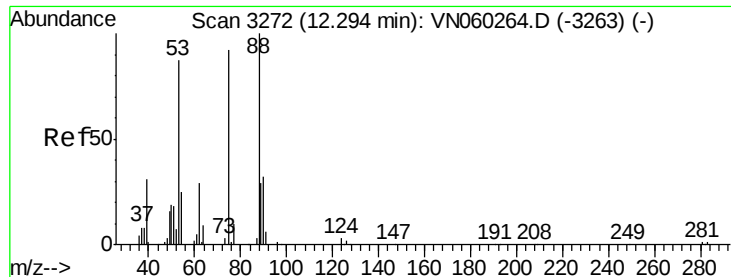
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060313.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060313.D (-3346) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.432 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

Instrument :

MSVOA_N

ClientSampled :

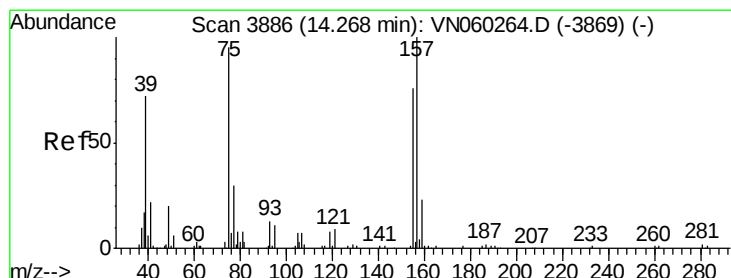
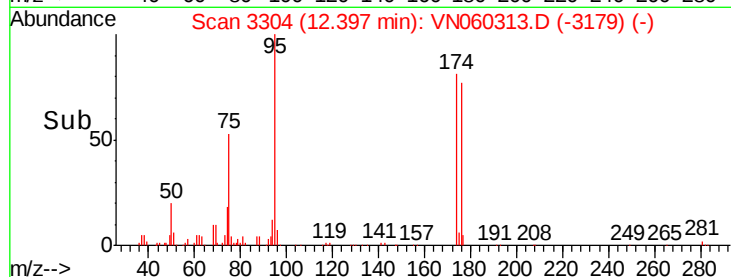
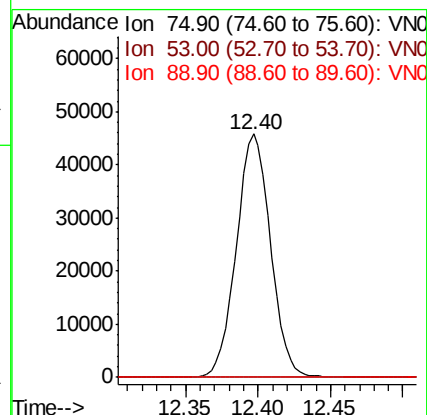
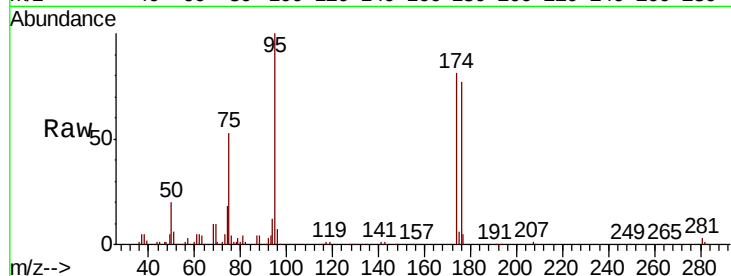
Tot Ion: 75 Resp: 74919

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.353 ug/l

RT: 14.25 min Scan# 3881

Delta R.T. -0.02 min

Lab File: VN060313.D

Acq: 2 Mar 2020 15:50

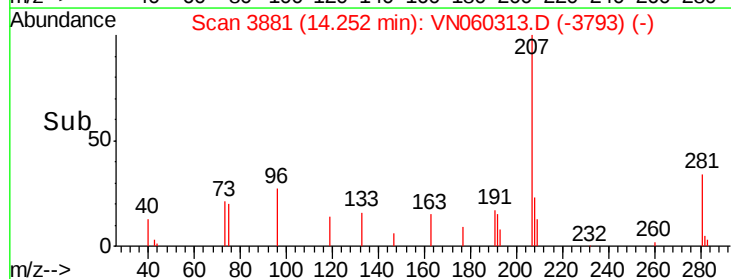
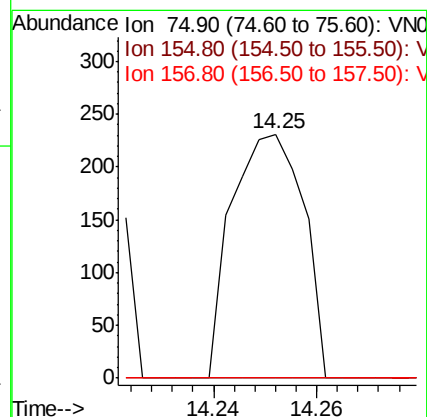
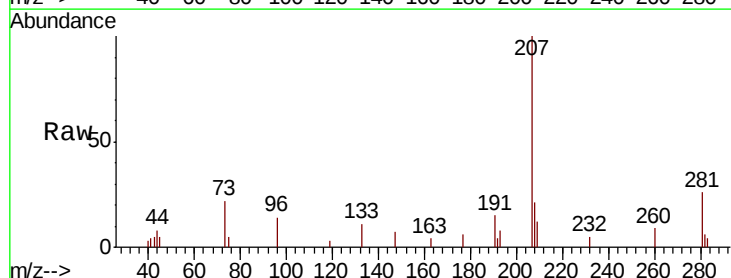
Tgt Ion: 75 Resp: 222

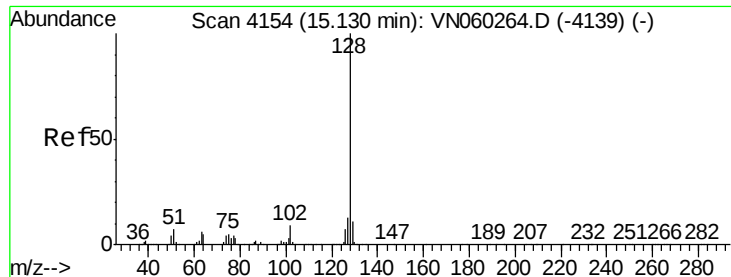
Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

157 0.0 52.5 157.5#

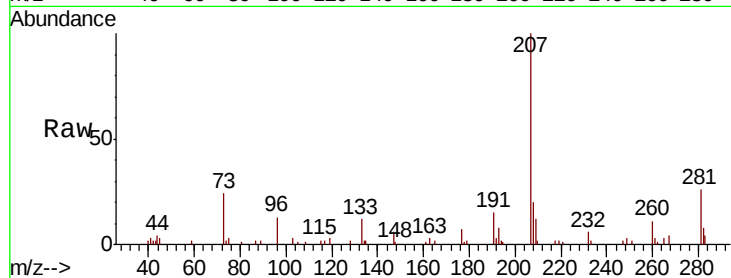




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060313.D
Acq: 2 Mar 2020 15:50

Instrument :
MSVOA_N
ClientSampleId :

Tot 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

