

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058042.D
 Acq On : 14 Sep 2019 00:53
 Operator : JC/SP
 Sample : K4694-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-2-(0)

Quant Time: Sep 14 03:42:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	313683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	534088	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	485781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	248369	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	329642	51.88	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.76%		
35) Dibromofluoromethane	7.58	113	227234	46.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.20%		
50) Toluene-d8	10.09	98	863358	45.11	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.22%		
62) 4-Bromofluorobenzene	12.40	95	299511	41.07	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.14%		

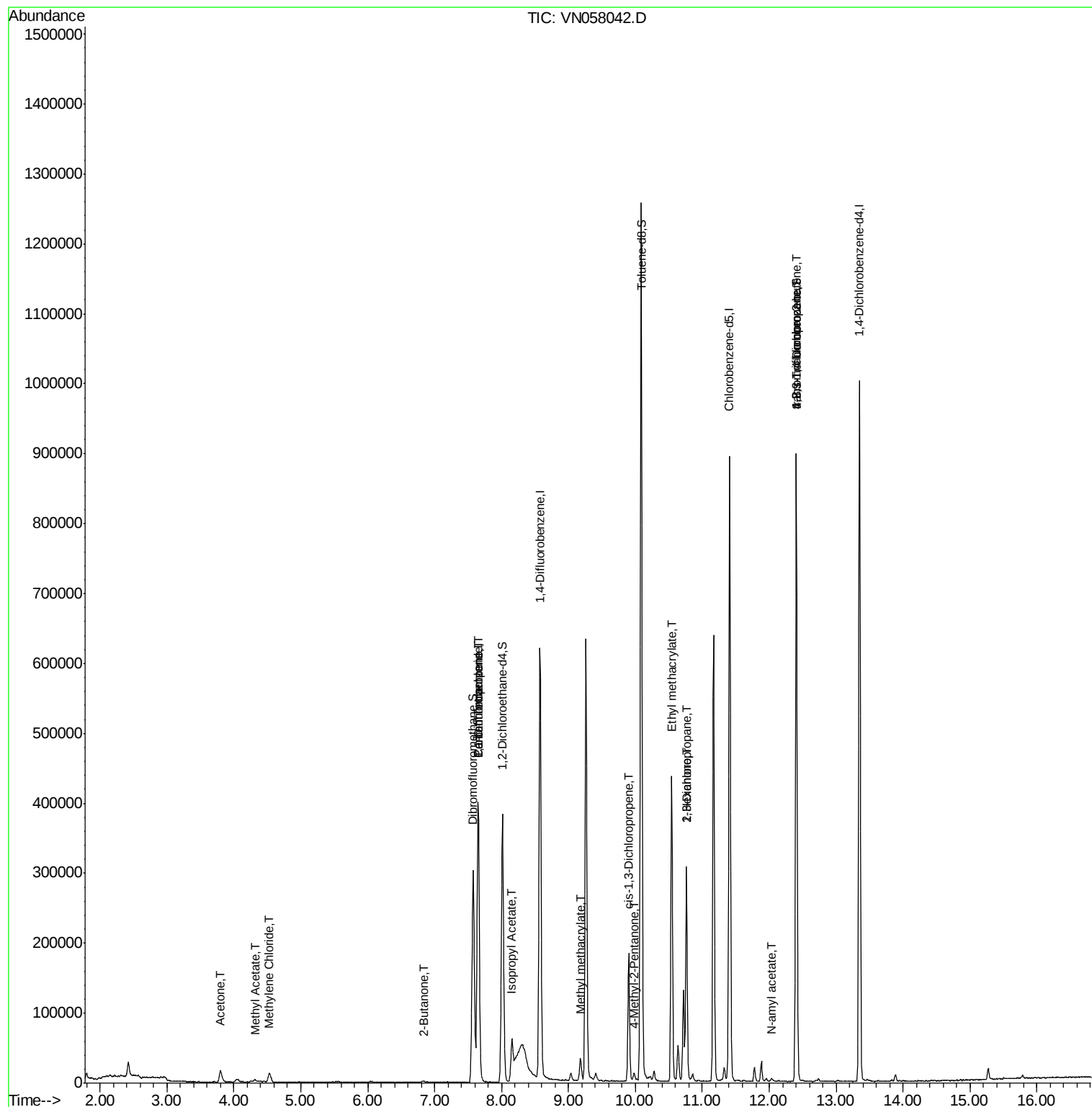
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	169	Below Cal	#	2
16) Acetone	3.80	43	28163	13.522	ug/l	95
18) Methyl Acetate	4.31	43	5320	0.958	ug/l #	76
20) Methylene Chloride	4.54	84	8798	1.013	ug/l	95
25) 2-Butanone	6.83	43	3645	1.209	ug/l #	88
31) Cyclohexane	7.65	56	8205	Below Cal	#	19
36) 1,1-Dichloropropene	7.65	75	28085	4.534	ug/l #	46
38) Carbon Tetrachloride	7.65	117	32540	5.754	ug/l #	15
43) Isopropyl Acetate	8.16	43	74930	6.962	ug/l #	85
48) Methyl methacrylate	9.18	41	4813	0.882	ug/l #	30
51) 4-Methyl-2-Pentanone	9.98	43	6912	1.085	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	31849	4.184	ug/l #	64
56) Ethyl methacrylate	10.54	69	1968	0.263	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3118	0.364	ug/l #	43
59) 2-Hexanone	10.76	43	48568	10.174	ug/l #	54
74) N-amyl acetate	12.04	43	3412	0.407	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	165834	29.516	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165834	103.866	ug/l #	6
95) Naphthalene	15.13	128	542	Below Cal	#	69

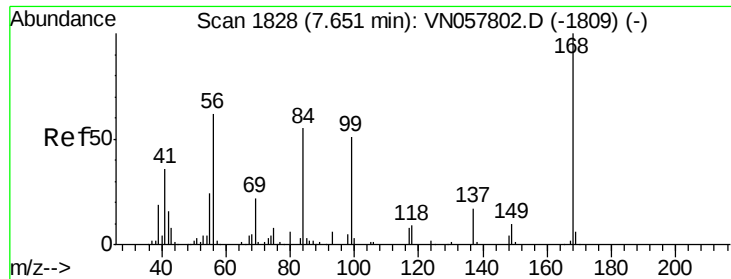
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

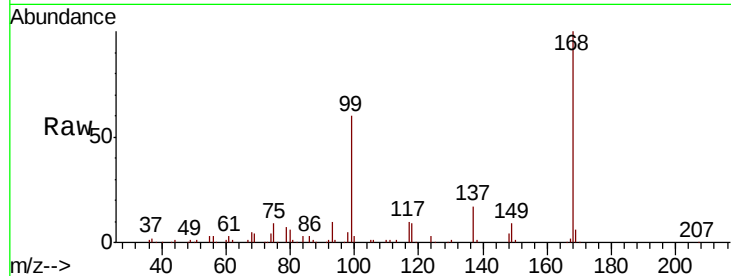
T2-2-(0)

Tgt Ion: 168 Resp: 313683

Ion Ratio Lower Upper

168 100

99 60.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

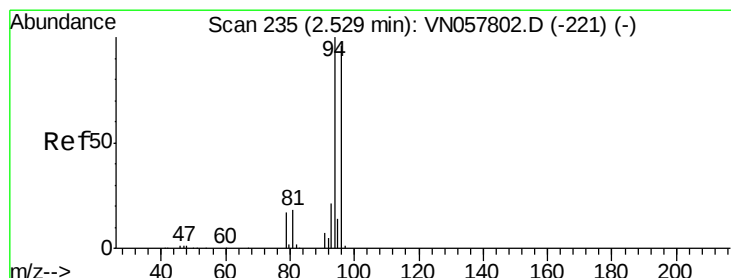
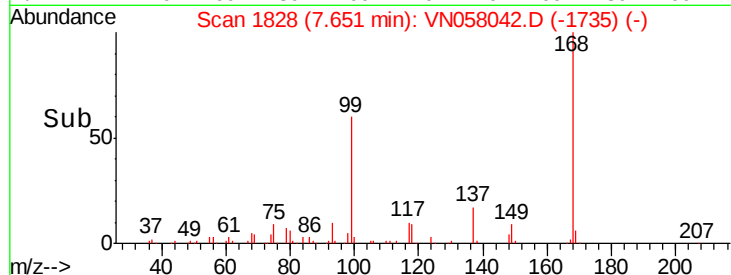
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN058042.D

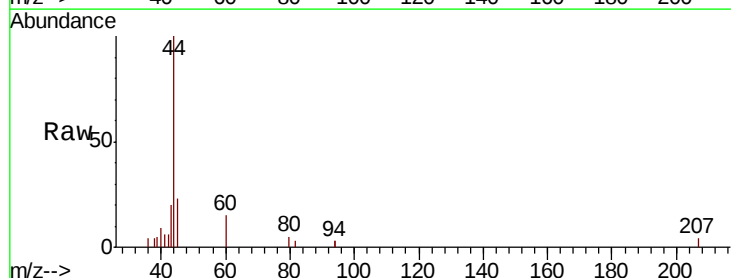
Acq: 14 Sep 2019 00:53

Tgt Ion: 94 Resp: 169

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.55

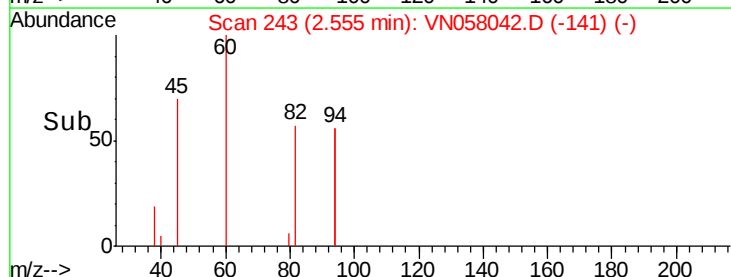
300

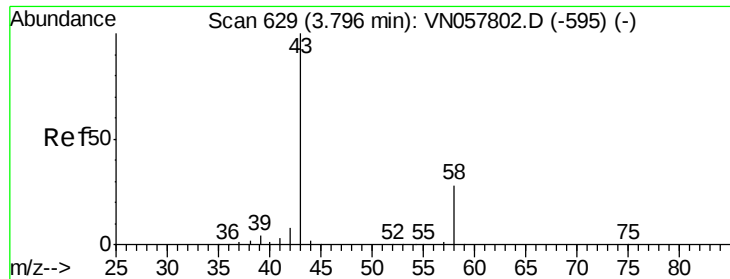
200

100

0

Time--> 2.54 2.55 2.56 2.57





#16

Acetone

Concen: 13.522 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

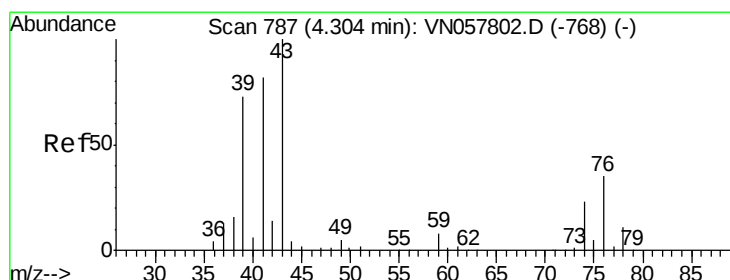
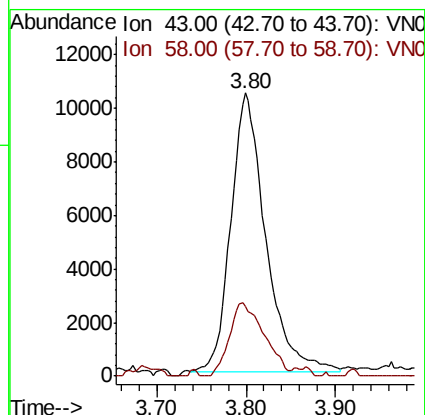
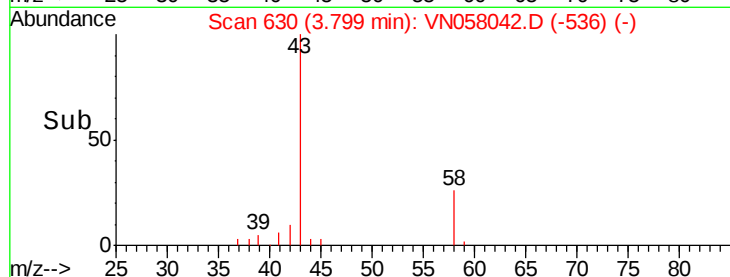
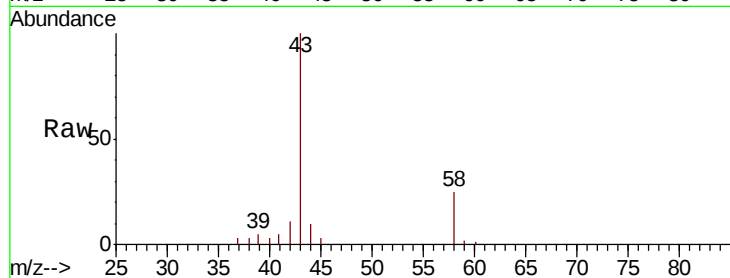
T2-2-(0)

Tgt Ion: 43 Resp: 28163

Ion Ratio Lower Upper

43 100

58 25.0 22.2 33.2



#18

Methyl Acetate

Concen: 0.958 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058042.D

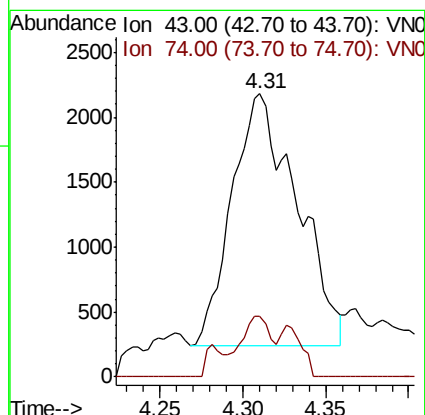
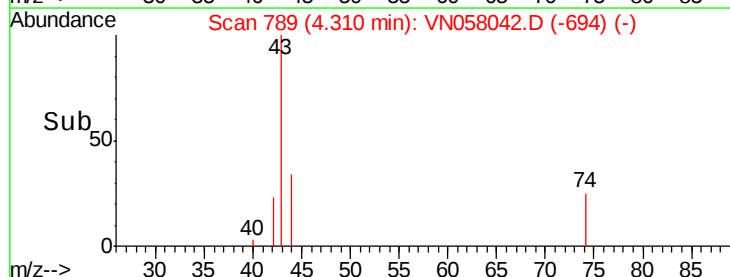
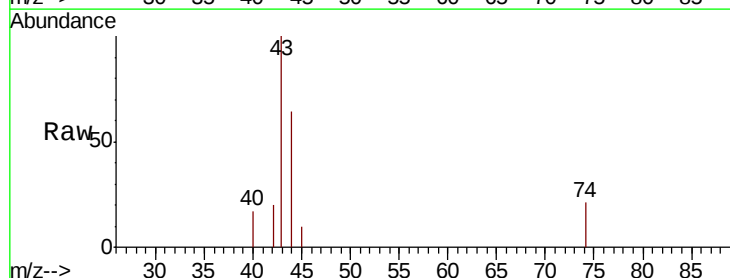
Acq: 14 Sep 2019 00:53

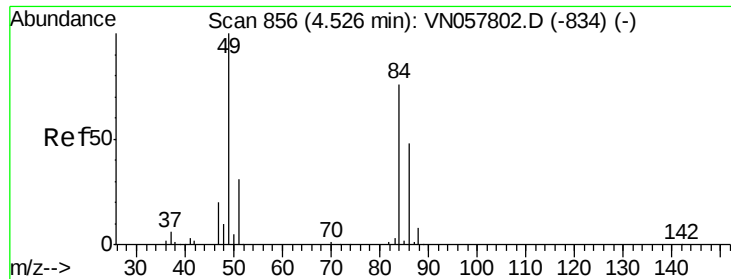
Tgt Ion: 43 Resp: 5320

Ion Ratio Lower Upper

43 100

74 11.0 17.9 26.9#

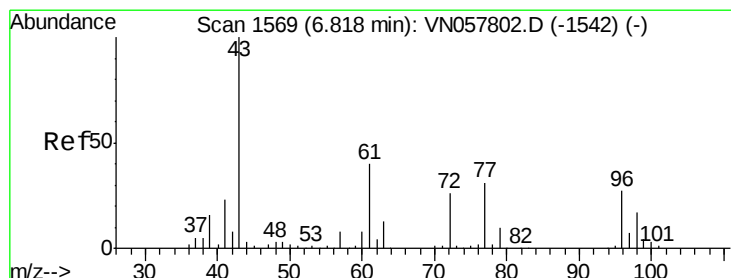
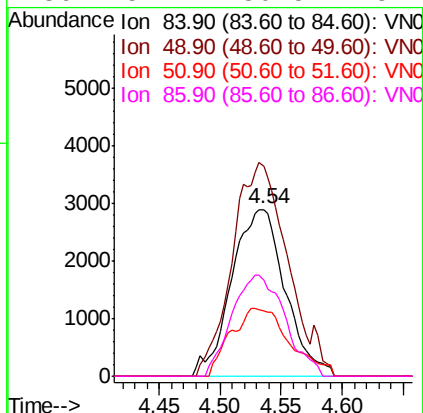
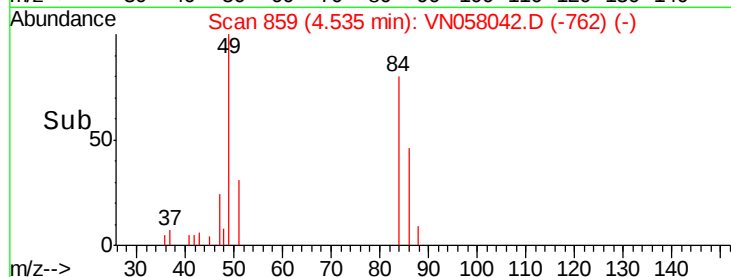
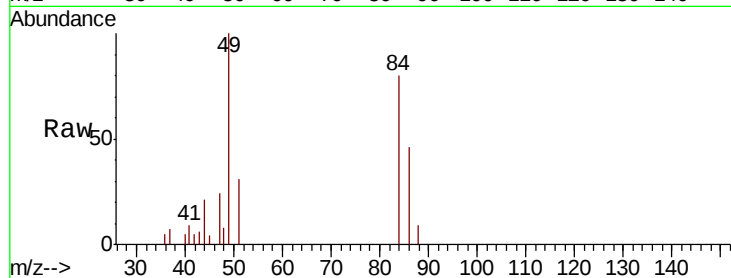




#20
Methylene Chloride
Concen: 1.013 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058042.D
Acq: 14 Sep 2019 00:53

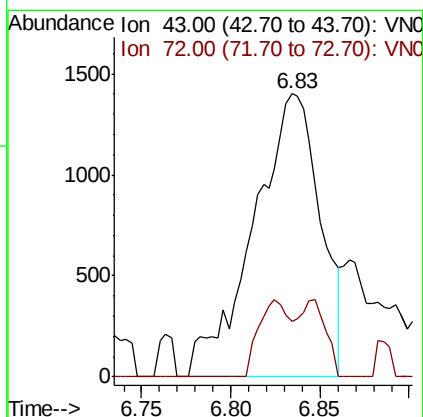
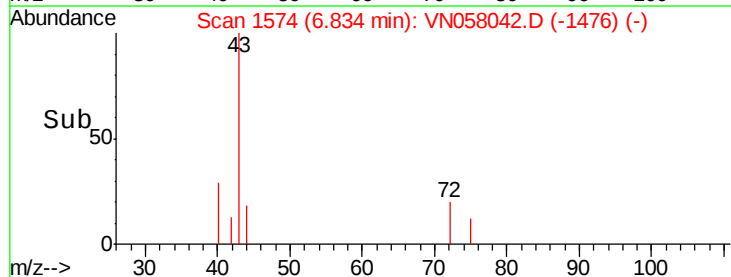
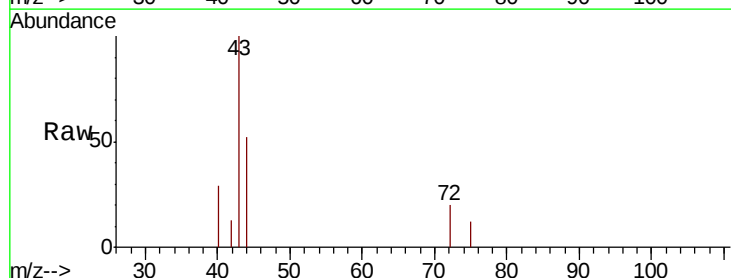
Instrument :
MSVOA_N
ClientSampled :
T2-2-(0)

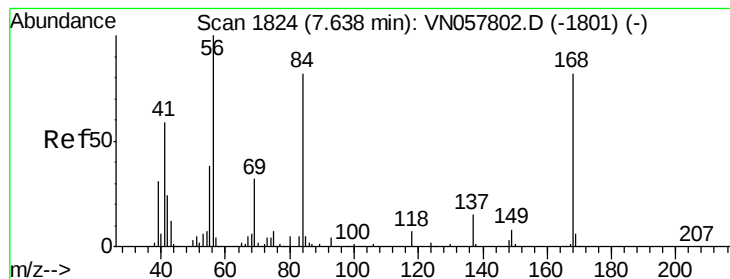
Tgt Ion: 84 Resp: 8798
Ion Ratio Lower Upper
84 100
49 125.6 104.8 157.2
51 38.8 33.0 49.4
86 57.1 50.5 75.7



#25
2-Butanone
Concen: 1.209 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058042.D
Acq: 14 Sep 2019 00:53

Tgt Ion: 43 Resp: 3645
Ion Ratio Lower Upper
43 100
72 19.8 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :
MSVOA_N
ClientSampled :
T2-2-(0)

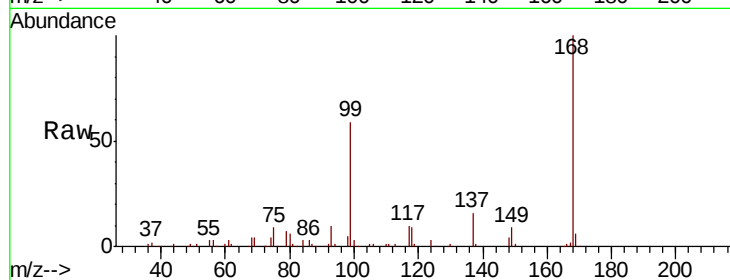
Tgt Ion: 56 Resp: 8205

Ion Ratio Lower Upper

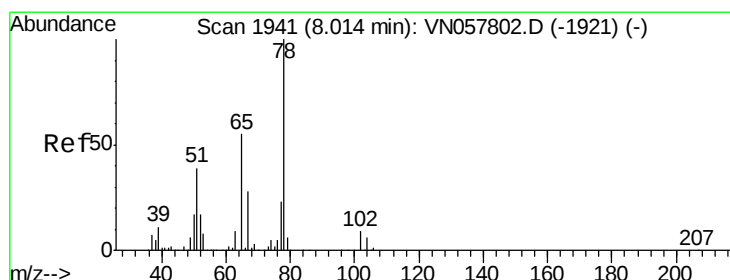
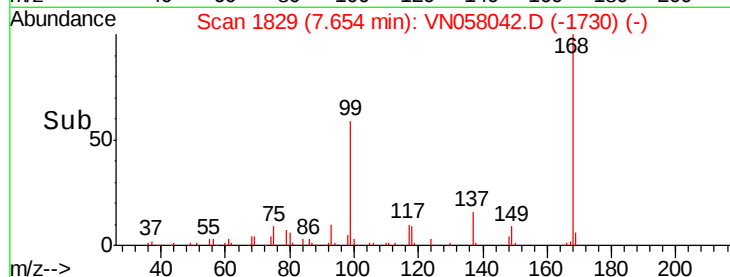
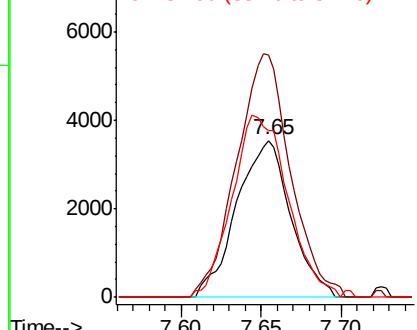
56 100

69 154.8 25.9 38.9#

84 106.4 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.884 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058042.D

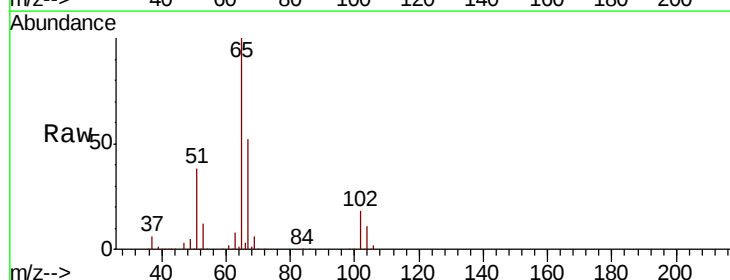
Acq: 14 Sep 2019 00:53

Tgt Ion: 65 Resp: 329642

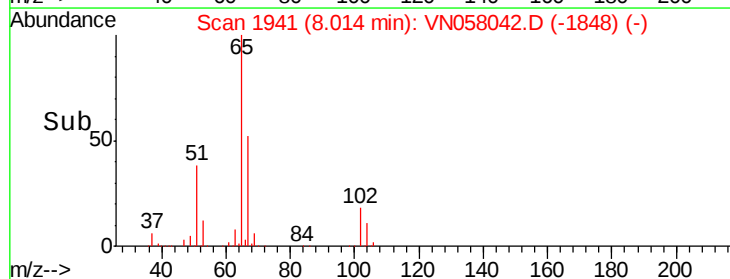
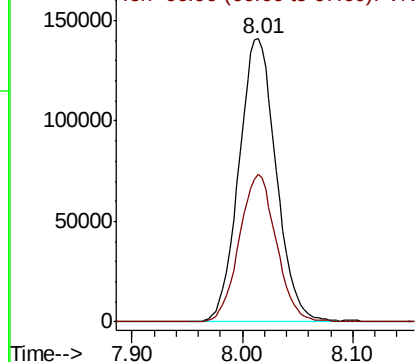
Ion Ratio Lower Upper

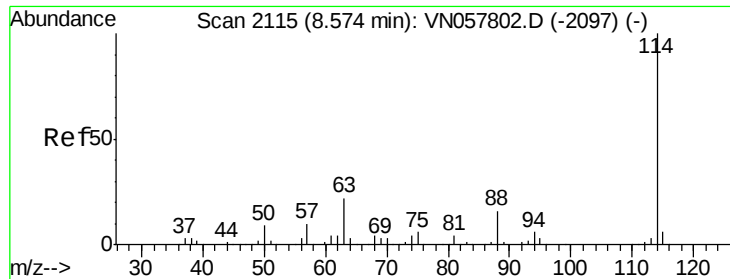
65 100

67 51.8 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

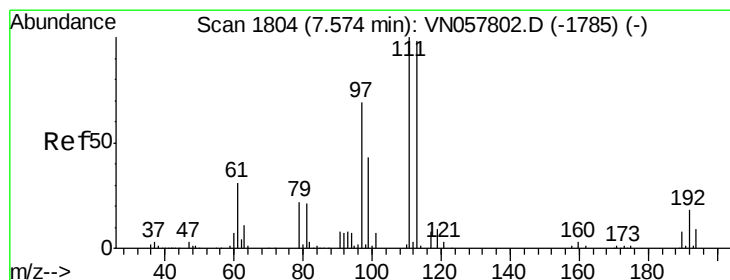
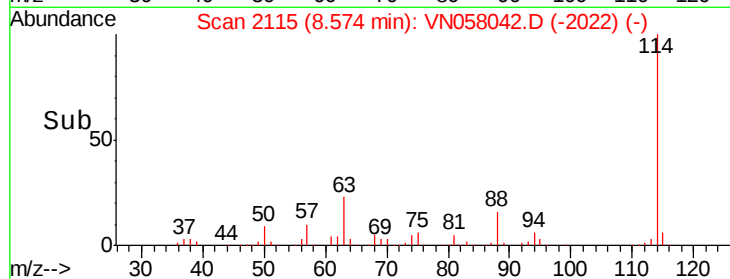
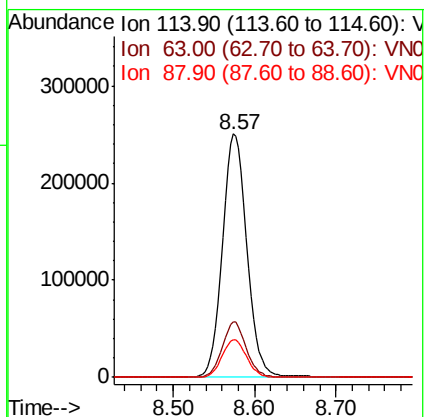
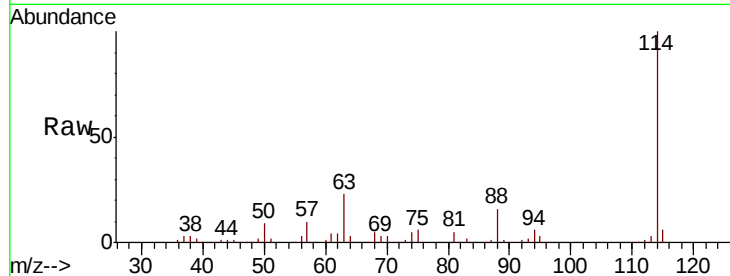




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058042.D
 Acq: 14 Sep 2019 00:53

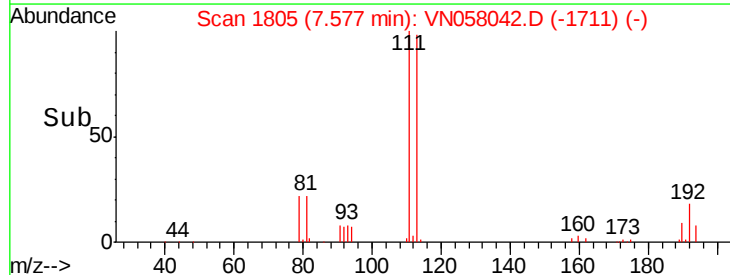
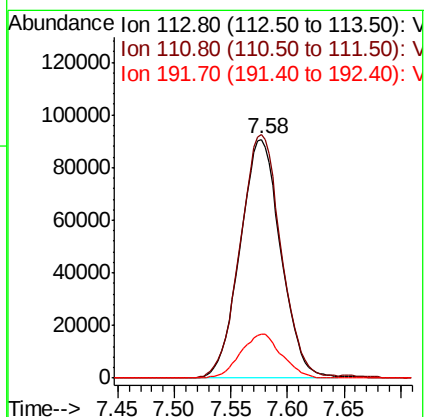
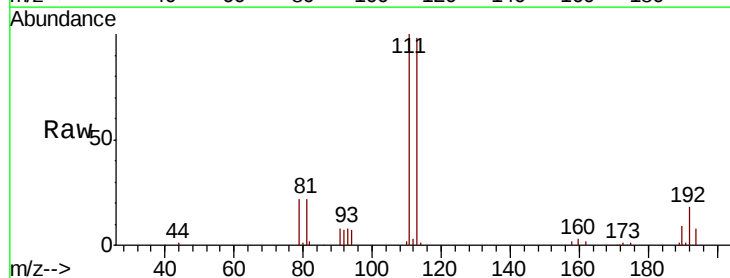
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-2-(0)

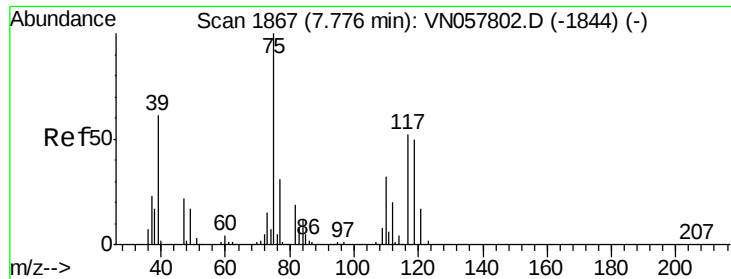
Tgt Ion:114 Resp: 534088
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.0
 88 15.7 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 46.098 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058042.D
 Acq: 14 Sep 2019 00:53

Tgt Ion:113 Resp: 227234
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.3 121.9
 192 18.6 14.6 22.0

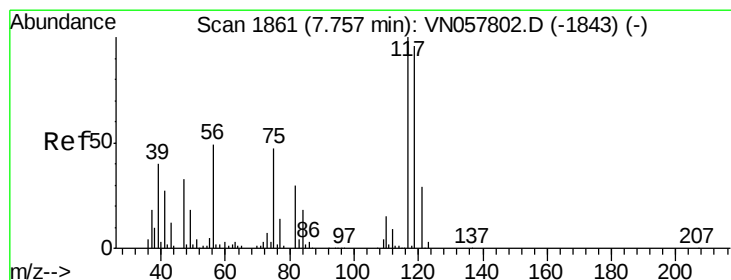
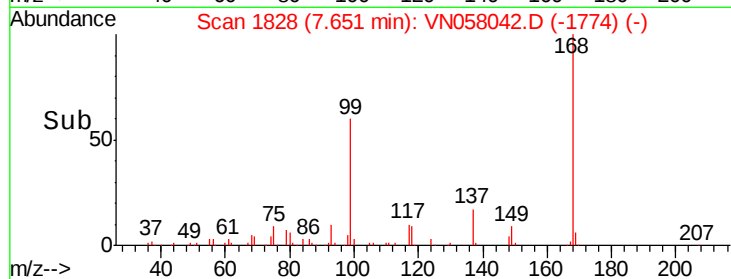
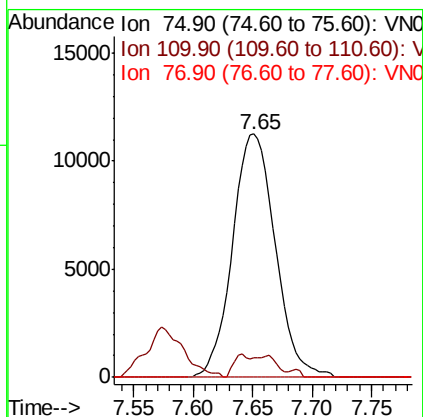
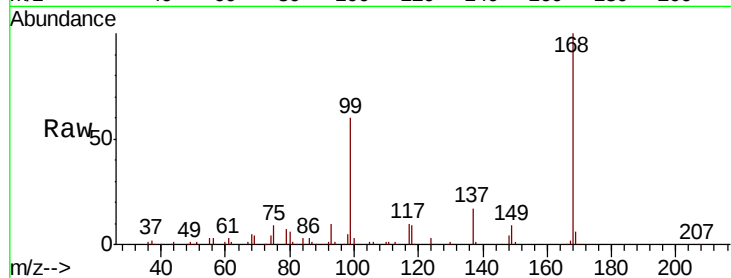




#36
 1,1-Dichloropropene
 Concen: 4.534 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058042.D
 Acq: 14 Sep 2019 00:53

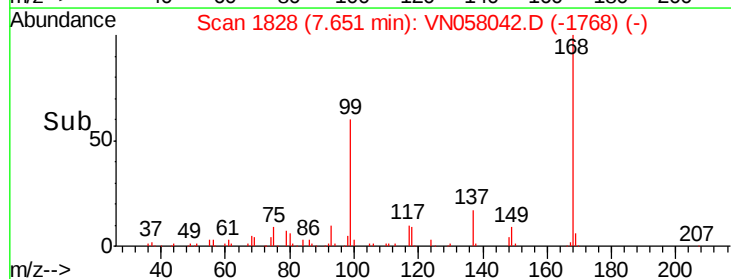
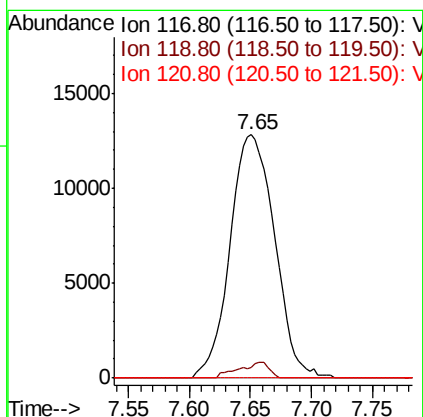
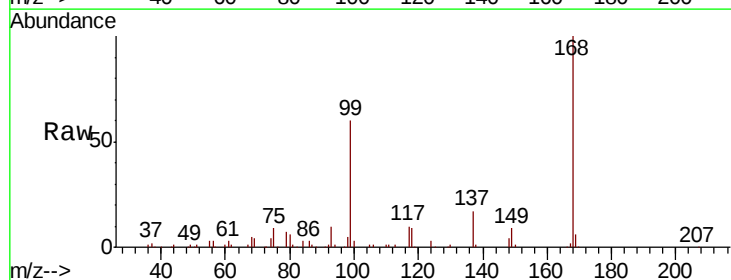
Instrument :
 MSVOA_N
 ClientSampled :
 T2-2-(0)

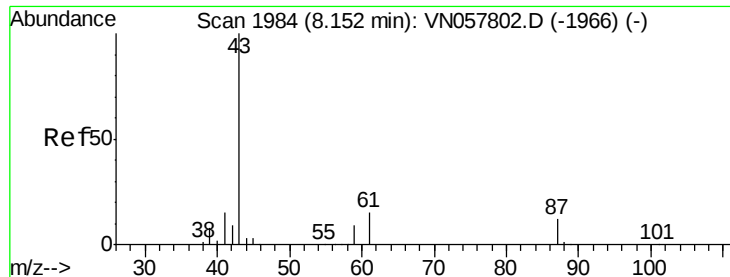
Tgt Ion: 75 Resp: 28085
 Ion Ratio Lower Upper
 75 100
 110 3.5 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.754 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058042.D
 Acq: 14 Sep 2019 00:53

Tgt Ion: 117 Resp: 32540
 Ion Ratio Lower Upper
 117 100
 119 4.4 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 6.962 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

T2-2-(0)

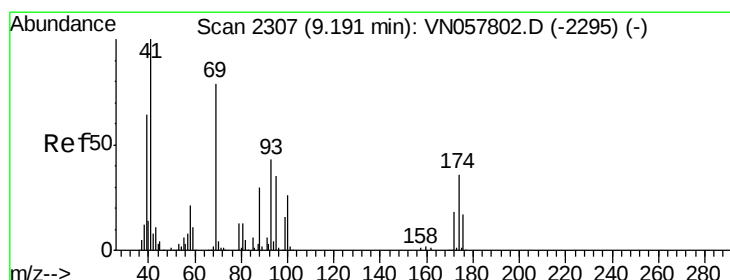
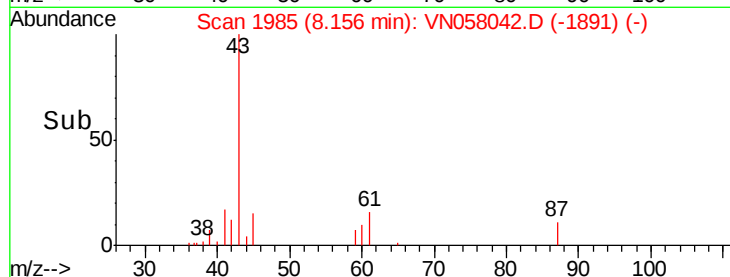
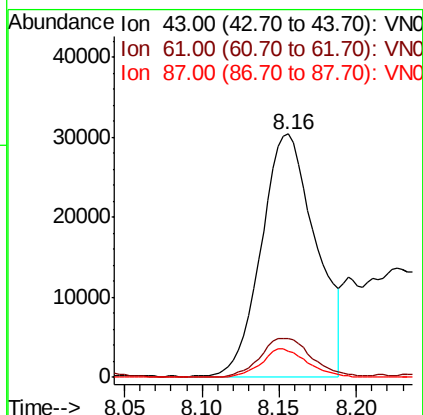
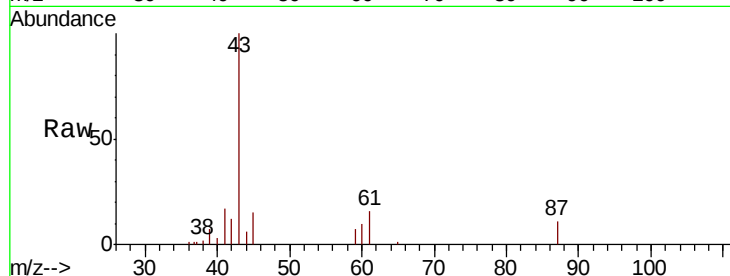
Tgt Ion: 43 Resp: 74930

Ion Ratio Lower Upper

43 100

61 15.3 20.1 30.1#

87 9.9 9.5 14.3



#48

Methyl methacrylate

Concen: 0.882 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

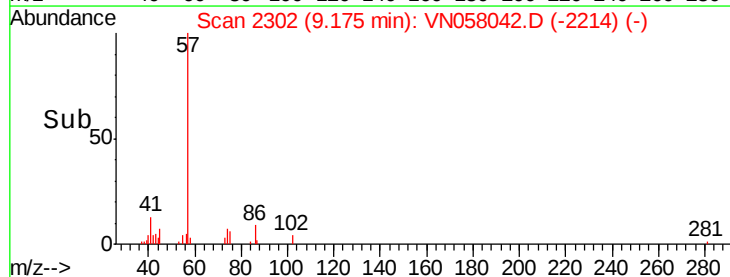
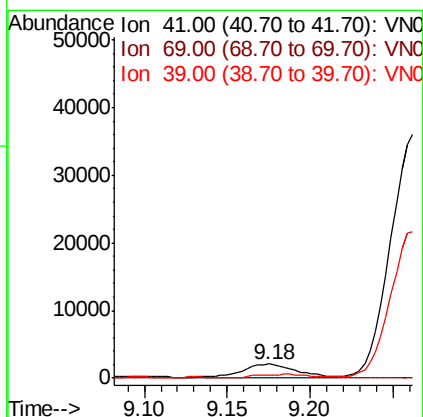
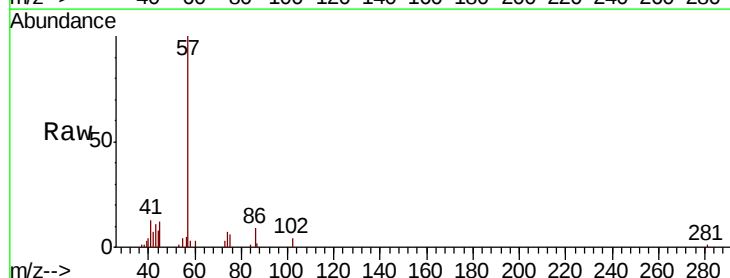
Tgt Ion: 41 Resp: 4813

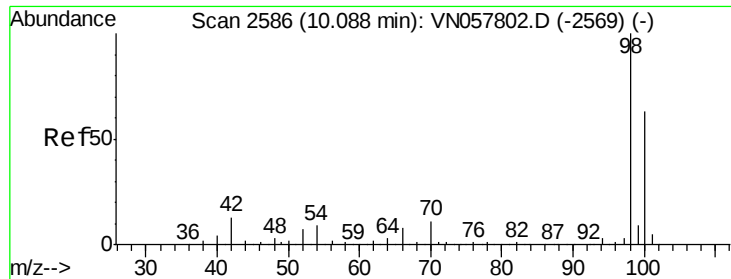
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 29.1 52.7 79.1#





#50

Toluene-d8

Concen: 45.111 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

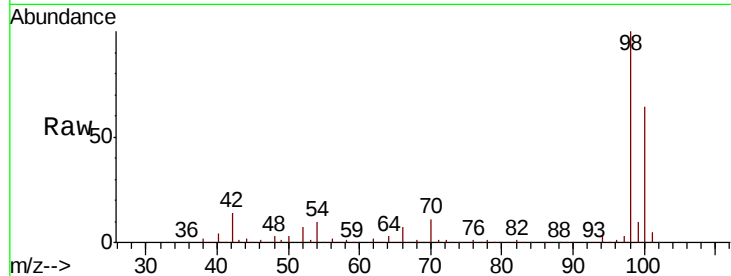
T2-2-(0)

Tgt Ion: 98 Resp: 863358

Ion Ratio Lower Upper

98 100

100 63.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

500000

400000

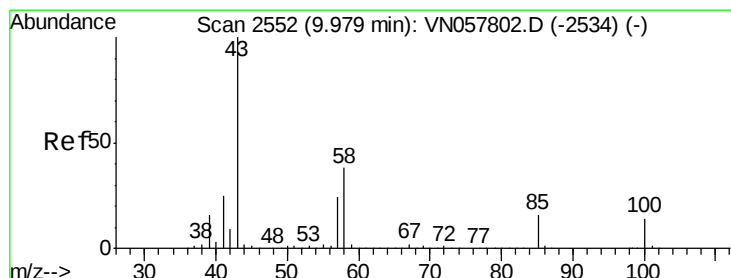
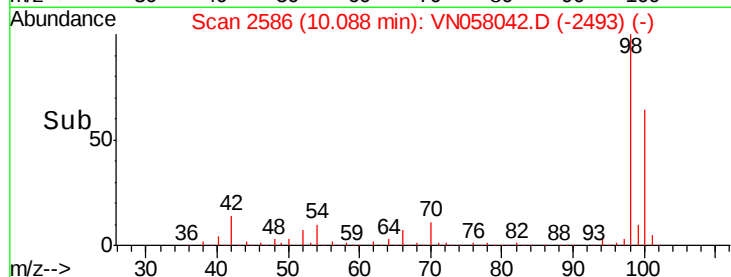
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.085 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058042.D

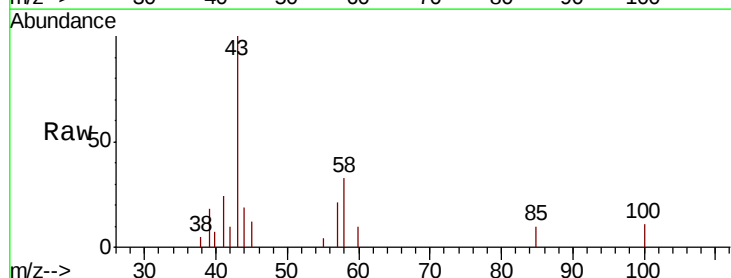
Acq: 14 Sep 2019 00:53

Tgt Ion: 43 Resp: 6912

Ion Ratio Lower Upper

43 100

58 34.8 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

9.98

10000

8000

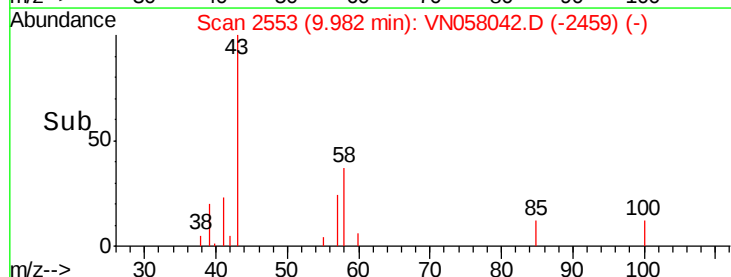
6000

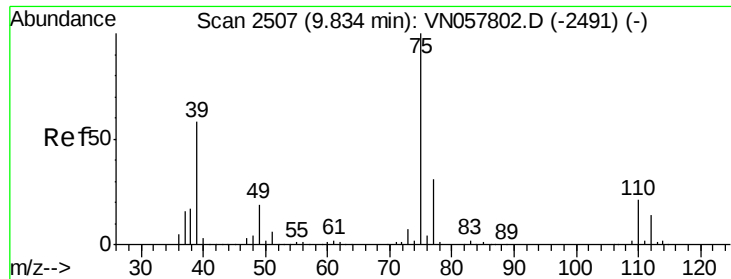
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.184 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T2-2-(0)

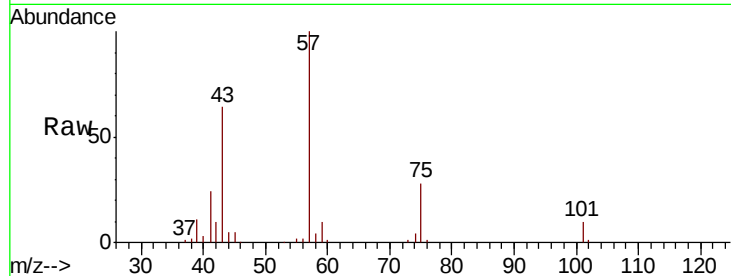
Tgt Ion: 75 Resp: 31849

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

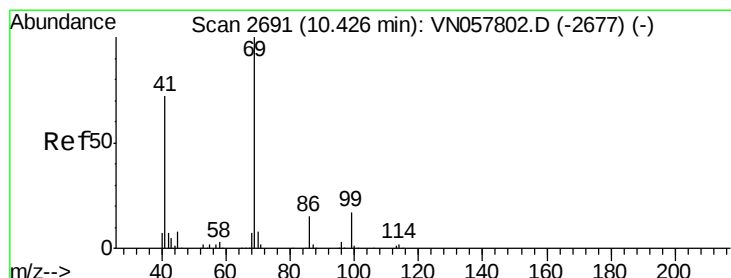
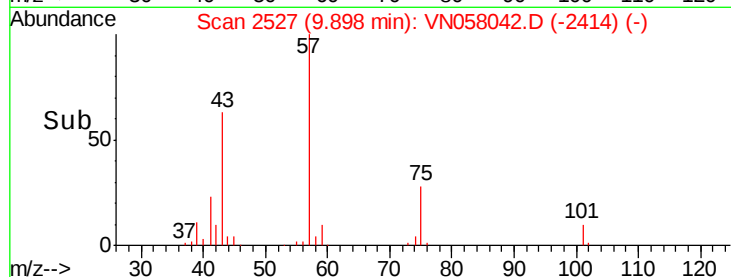
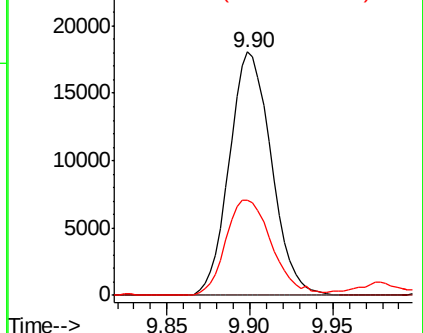
39 39.2 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)



#56

Ethyl methacrylate

Concen: 0.263 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

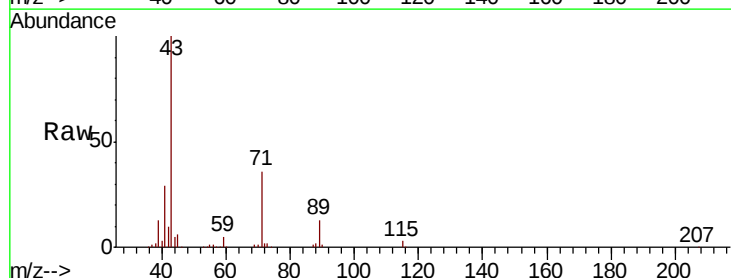
Tgt Ion: 69 Resp: 1968

Ion Ratio Lower Upper

69 100

41 4647.5 56.7 85.1#

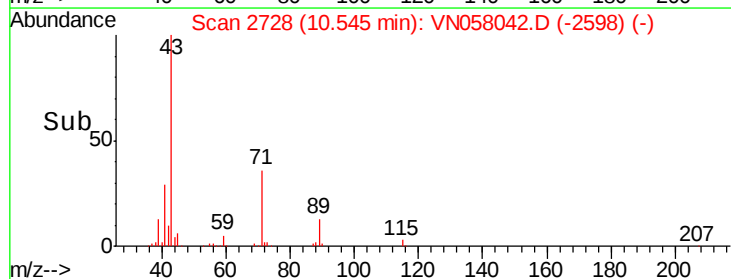
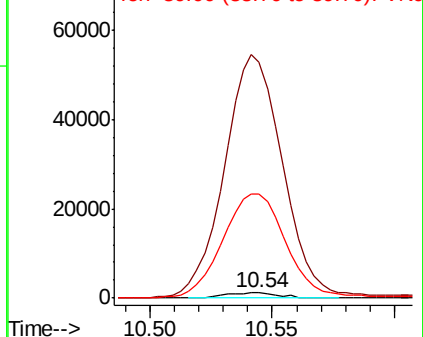
39 2160.4 36.3 54.5#

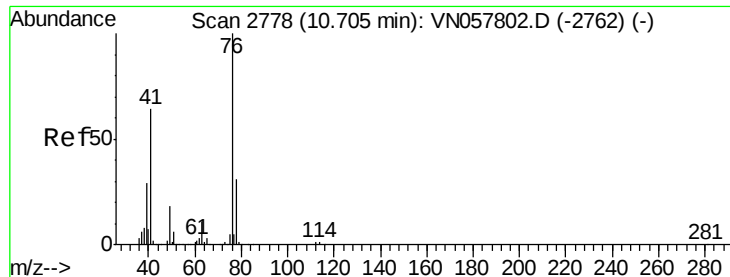


Abundance Ion 69.00 (68.70 to 69.70): VN057802.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN057802.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2677) (-)

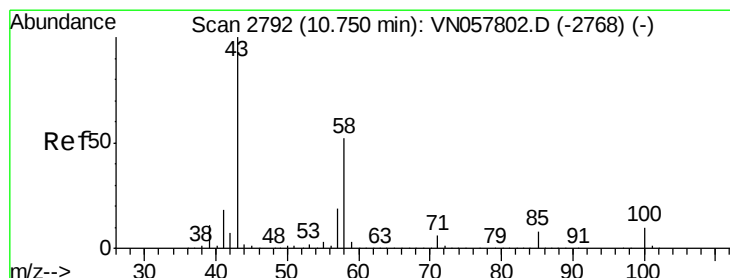
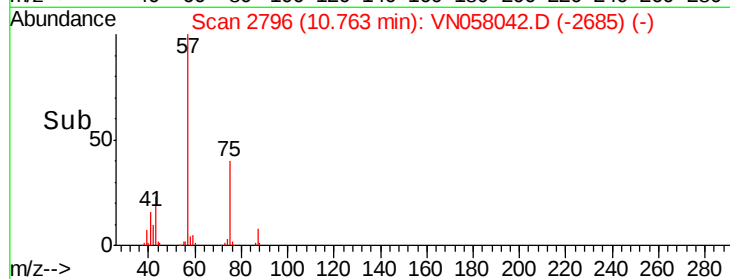
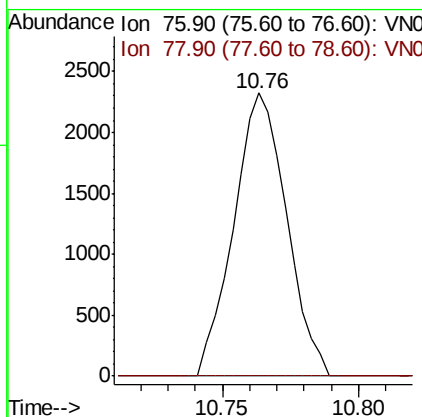
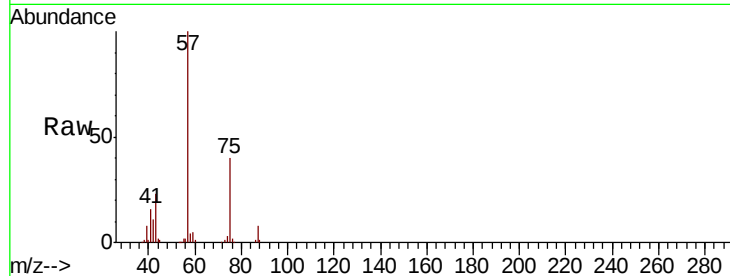




#57
 1,3-Dichloropropane
 Concen: 0.364 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058042.D
 Acq: 14 Sep 2019 00:53

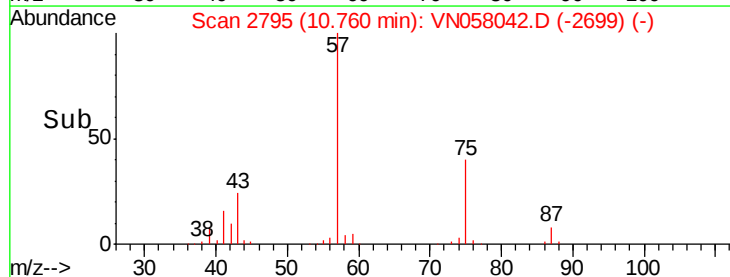
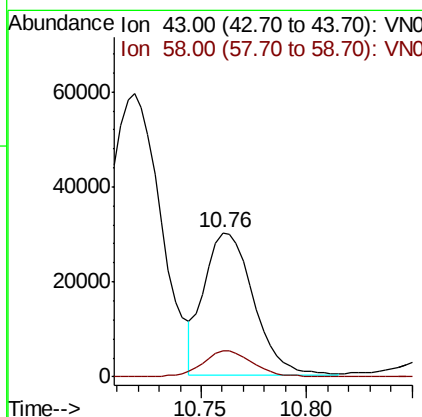
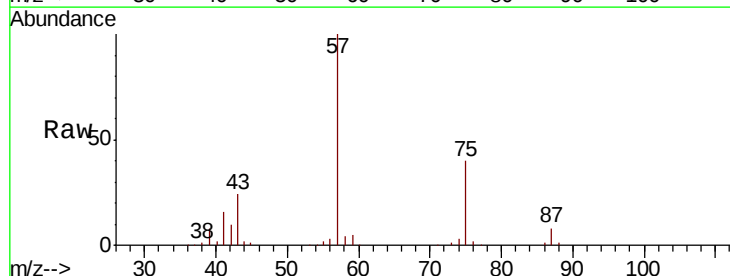
Instrument :
 MSVOA_N
 ClientSampled :
 T2-2-(0)

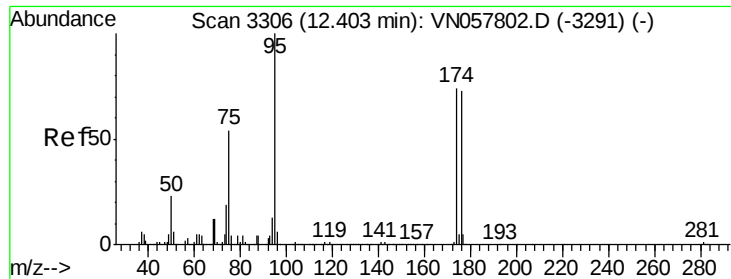
Tgt Ion: 76 Resp: 3118
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 10.174 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN058042.D
 Acq: 14 Sep 2019 00:53

Tgt Ion: 43 Resp: 48568
 Ion Ratio Lower Upper
 43 100
 58 18.8 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 41.065 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T2-2-(0)

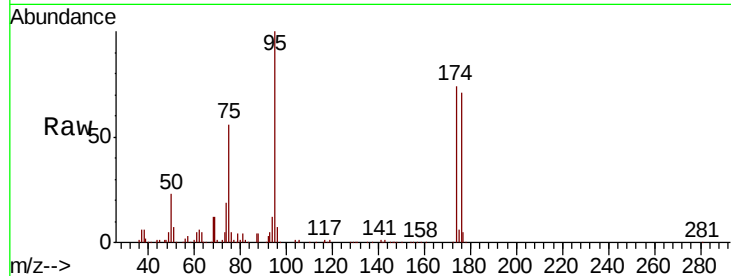
Tgt Ion: 95 Resp: 299511

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.2

176 72.7 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

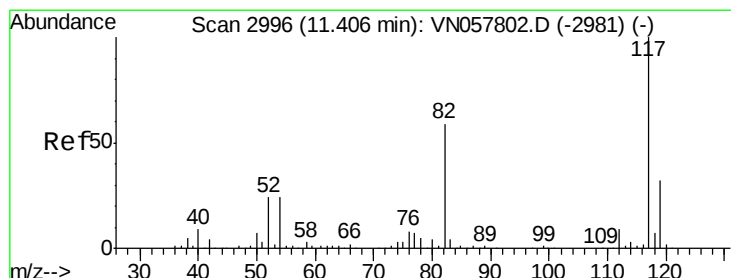
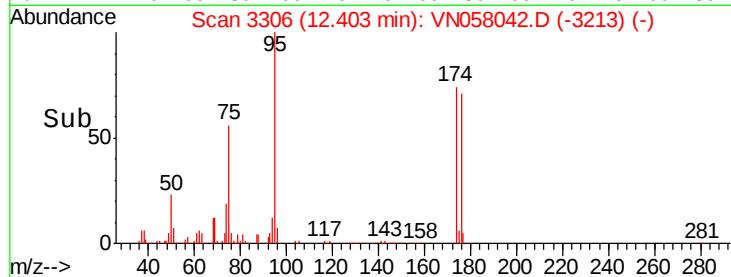
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

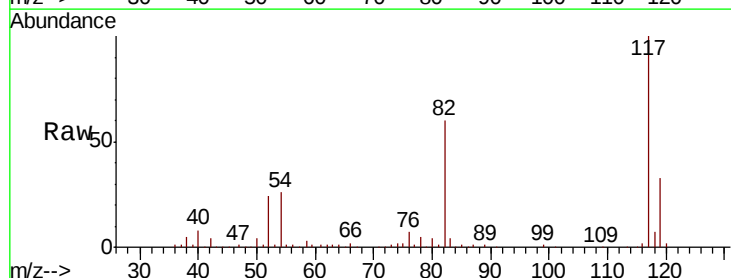
Tgt Ion: 117 Resp: 485781

Ion Ratio Lower Upper

117 100

82 59.6 47.2 70.8

119 32.6 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

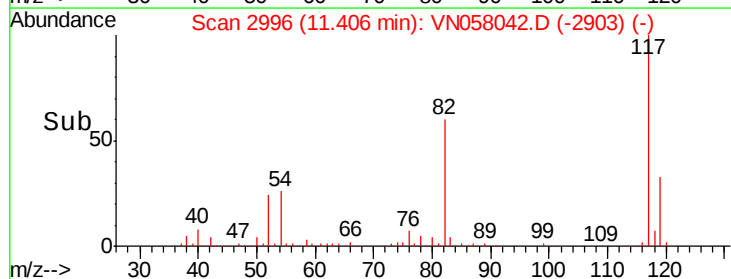
300000

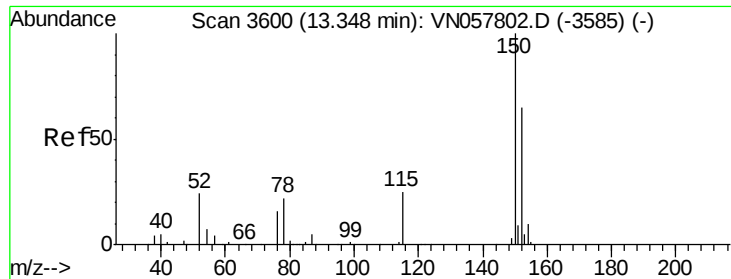
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

T2-2-(0)

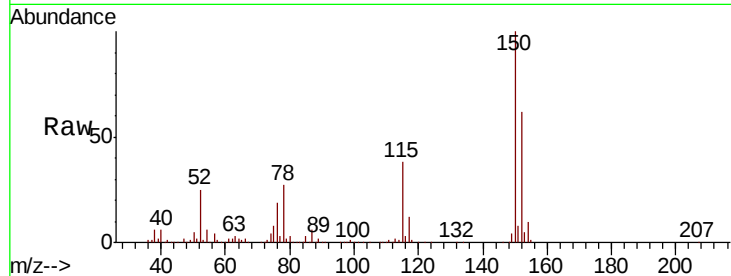
Tgt Ion:152 Resp: 248369

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

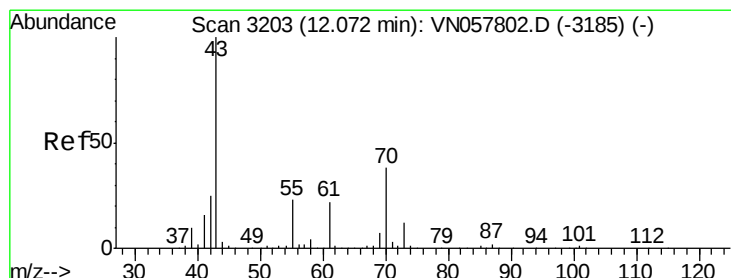
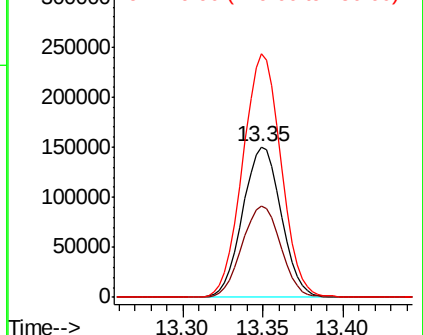
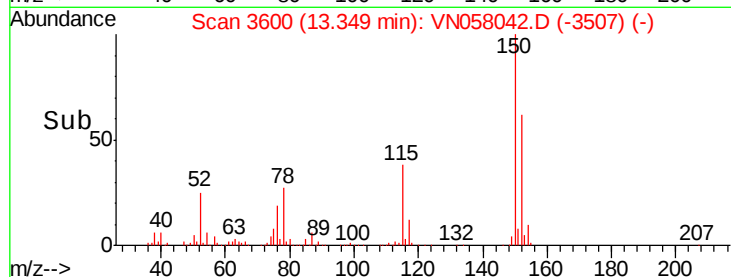
150 161.1 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.407 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Tgt Ion: 43 Resp: 3412

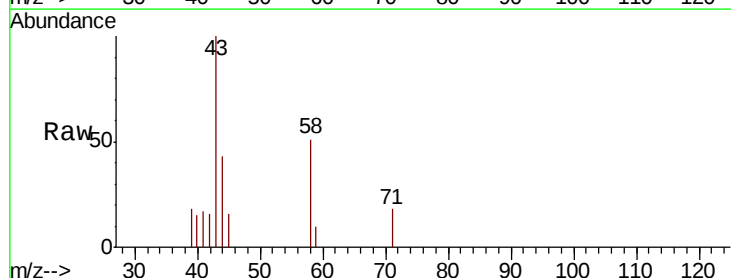
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.7 18.6 27.8#

61 0.0 17.4 26.2#

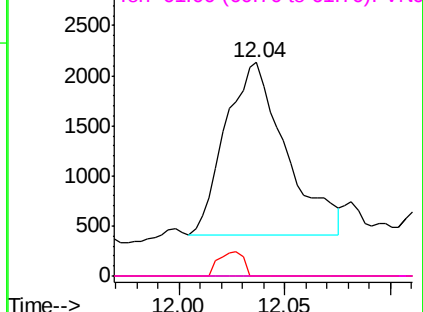
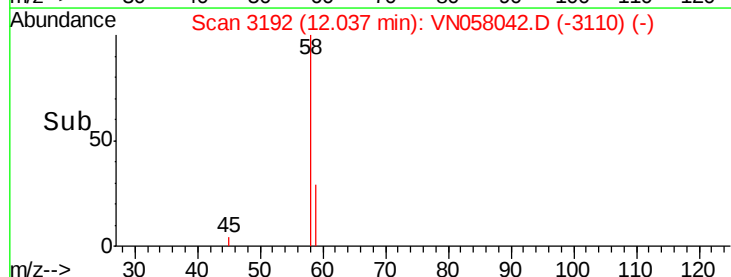


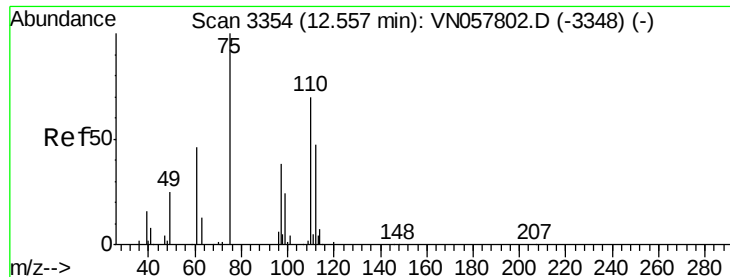
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 29.516 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

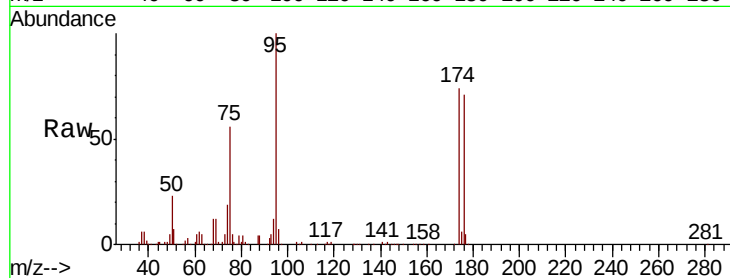
T2-2-(0)

Tgt Ion: 75 Resp: 165834

Ion Ratio Lower Upper

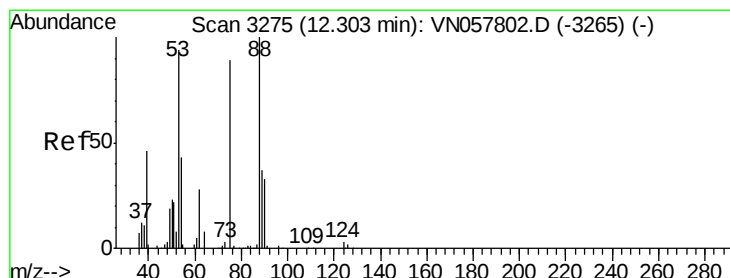
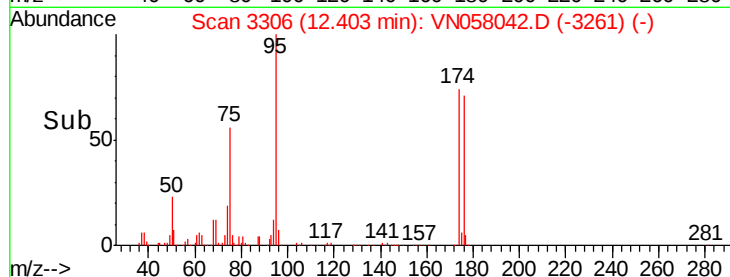
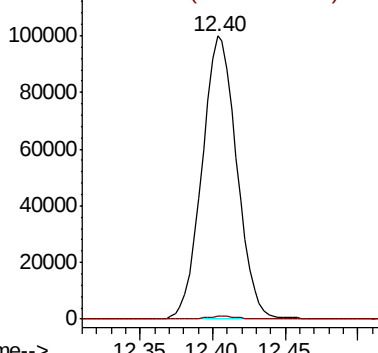
75 100

77 1.0 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: 103.866 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058042.D

Acq: 14 Sep 2019 00:53

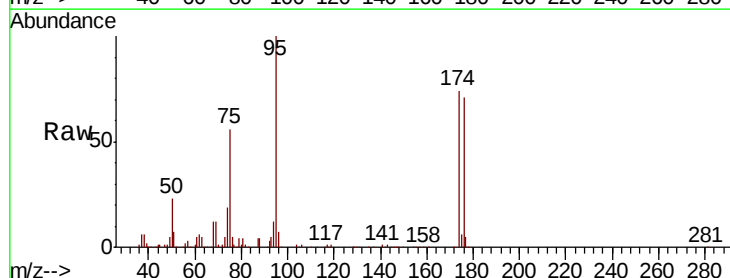
Tgt Ion: 75 Resp: 165834

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

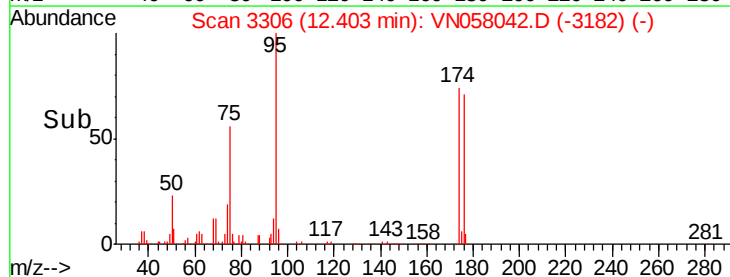
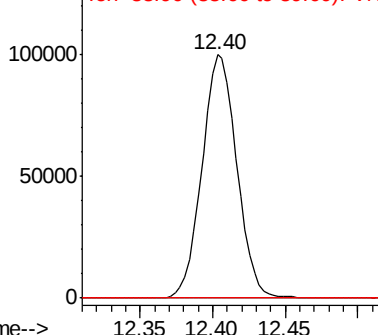
89 0.0 35.3 52.9#

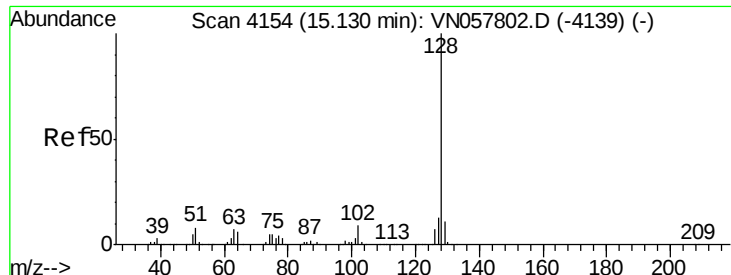


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN058042.D
Acq: 14 Sep 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
T2-2-(0)

Tgt Ion:128 Resp: 542
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

