

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057726.D
 Acq On : 6 Sep 2019 20:27
 Operator : JC/SP
 Sample : K4580-25
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B2-(0)

Quant Time: Sep 06 23:27:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 03:46:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	193472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	326232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	302294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	151326	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	246858	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
35) Dibromofluoromethane	7.58	113	144675	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
50) Toluene-d8	10.08	98	569182	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
62) 4-Bromofluorobenzene	12.40	95	208166	45.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.18%	

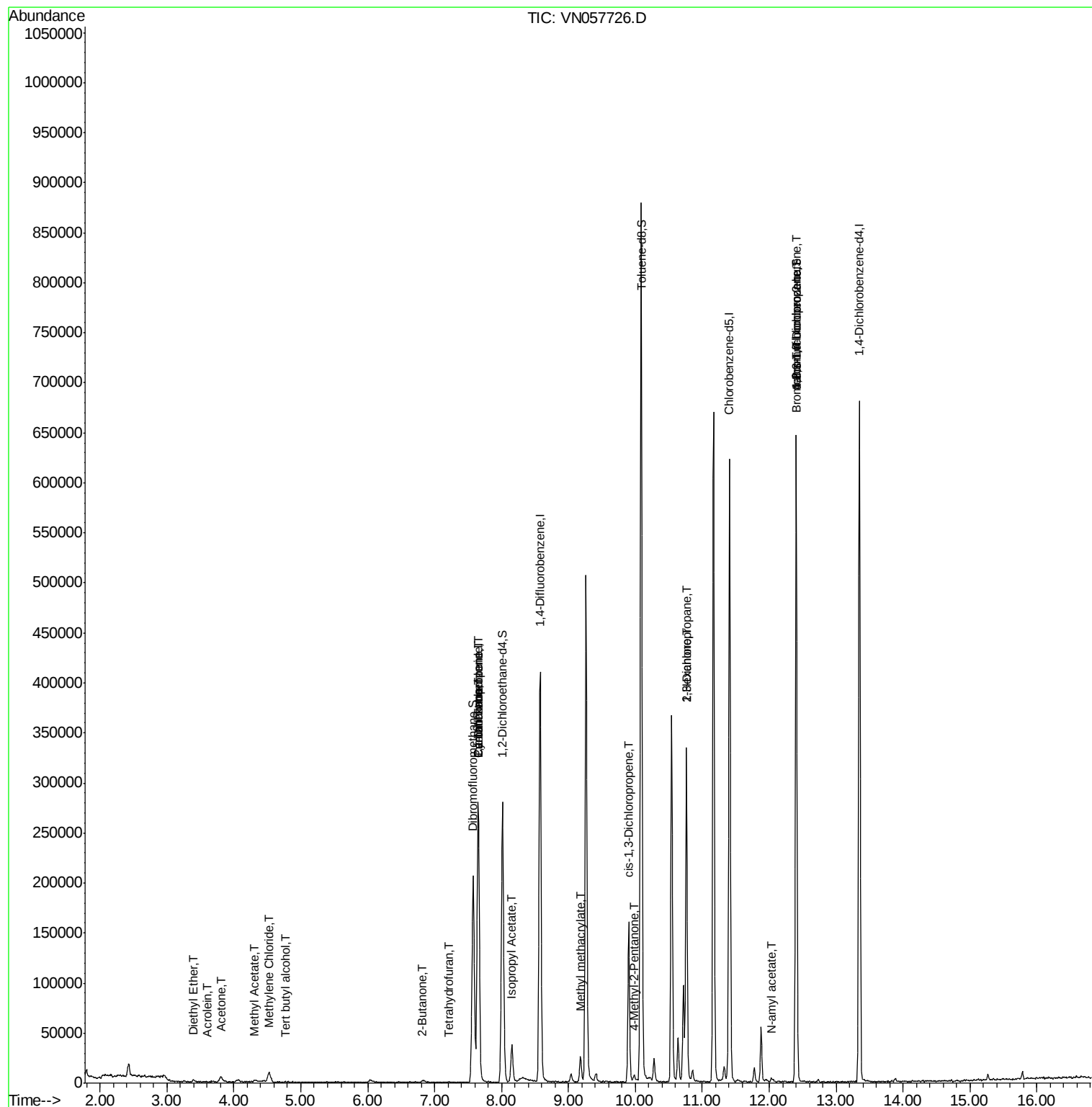
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1006	Below Cal		99
8) Diethyl Ether	3.38	74	378	0.222	ug/l	66
11) Tert butyl alcohol	4.77	59	175	0.327	ug/l #	71
13) Acrolein	3.61	56	109	0.429	ug/l #	15
16) Acetone	3.80	43	9966	6.881	ug/l	93
18) Methyl Acetate	4.30	43	875	0.222	ug/l #	58
20) Methylene Chloride	4.53	84	6041	1.929	ug/l	96
25) 2-Butanone	6.82	43	1193	0.575	ug/l #	55
29) Tetrahydrofuran	7.21	42	311	0.232	ug/l #	48
31) Cyclohexane	7.65	56	6992	1.324	ug/l #	34
36) 1,1-Dichloropropene	7.65	75	20246	4.665	ug/l #	50
38) Carbon Tetrachloride	7.65	117	22949	5.522	ug/l #	15
43) Isopropyl Acetate	8.16	43	46470	5.619	ug/l	99
48) Methyl methacrylate	9.17	41	4484	1.054	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	3961	0.862	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	24131	4.757	ug/l #	65
57) 1,3-Dichloropropane	10.77	76	3401	0.632	ug/l #	43
59) 2-Hexanone	10.76	43	56153	17.338	ug/l #	59
71) Bromoform	12.39	173	153	3.312	ug/l #	28
74) N-amyl acetate	12.03	43	3042	0.455	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	126146	36.301	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	126146	112.896	ug/l #	1

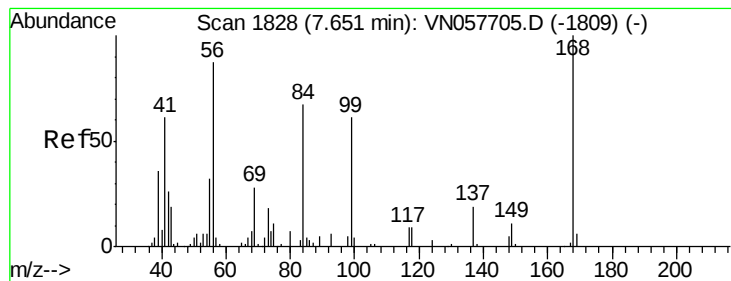
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
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Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

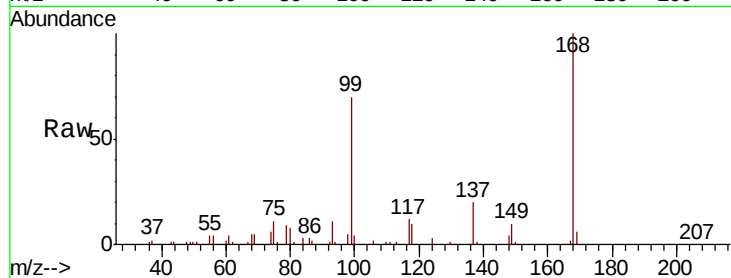
T12-B2-(0)

Tgt Ion:168 Resp: 193472

Ion Ratio Lower Upper

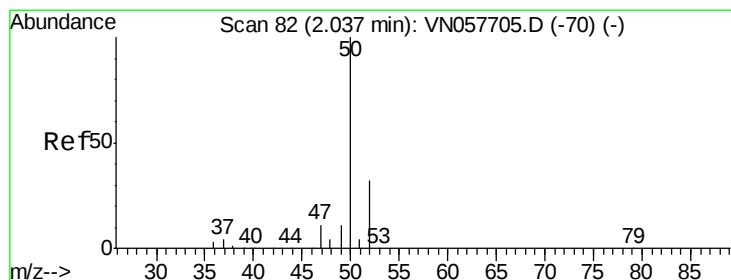
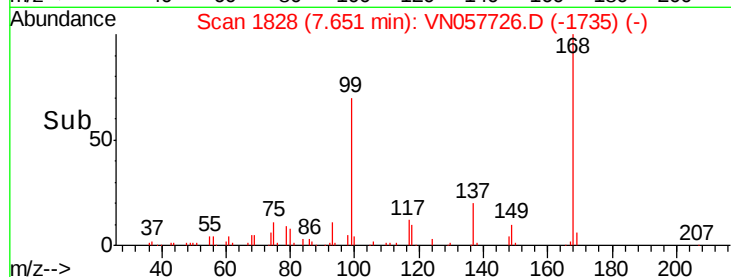
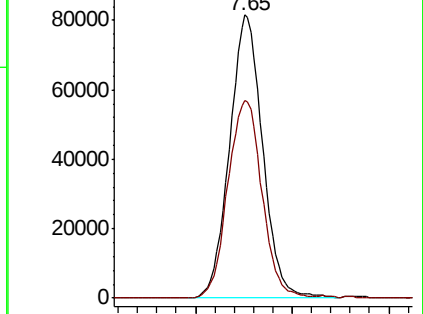
168 100

99 69.6 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): VN057705.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057705.D (-1809) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057726.D

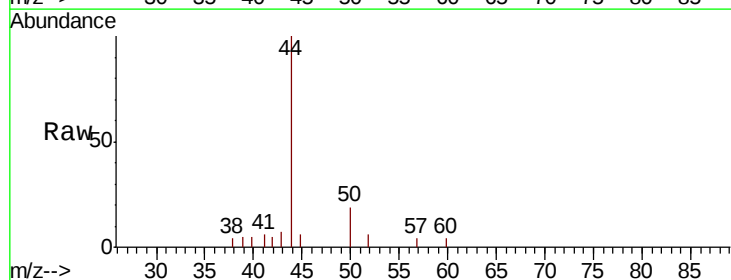
Acq: 6 Sep 2019 20:27

Tgt Ion: 50 Resp: 1006

Ion Ratio Lower Upper

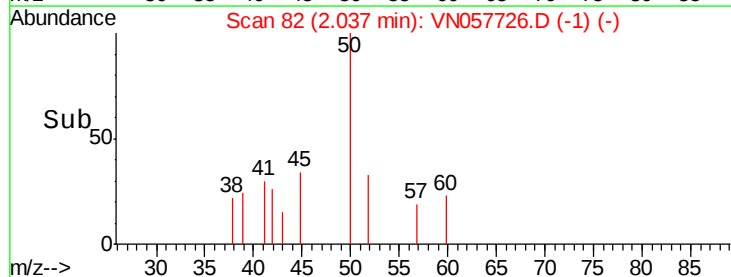
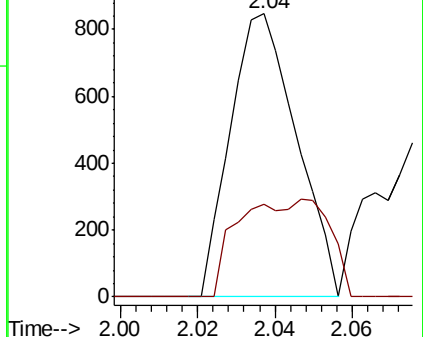
50 100

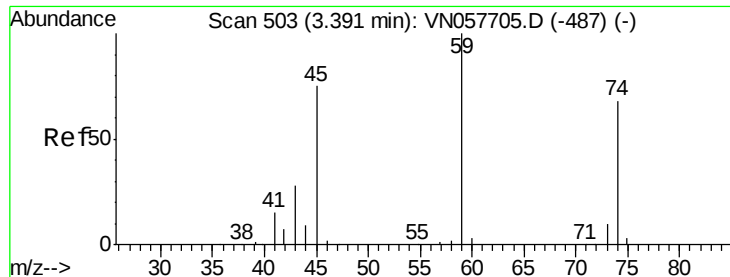
52 32.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN057705.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057705.D (-70) (-)





#8

Diethyl Ether

Concen: 0.222 ug/l

RT: 3.38 min Scan# 501

Delta R.T. -0.01 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampled :

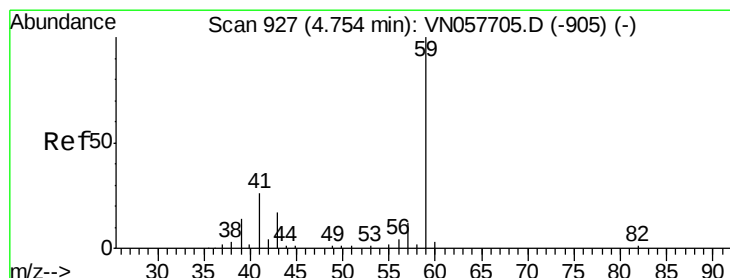
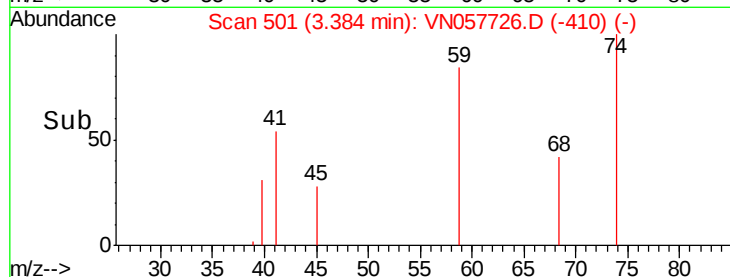
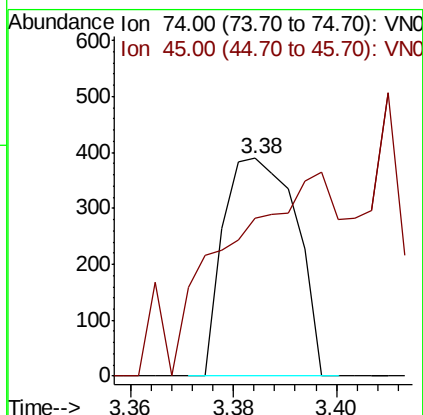
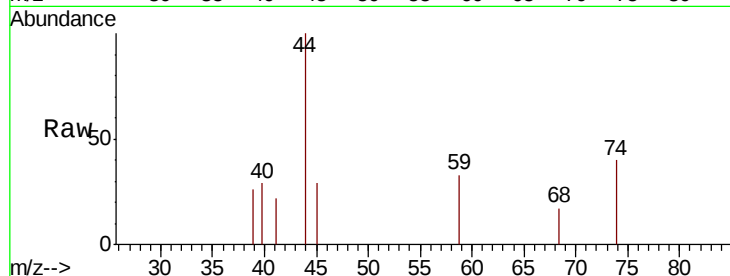
T12-B2-(0)

Tgt Ion: 74 Resp: 378

Ion Ratio Lower Upper

74 100

45 146.3 55.4 166.0



#11

Tert butyl alcohol

Concen: 0.327 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.02 min

Lab File: VN057726.D

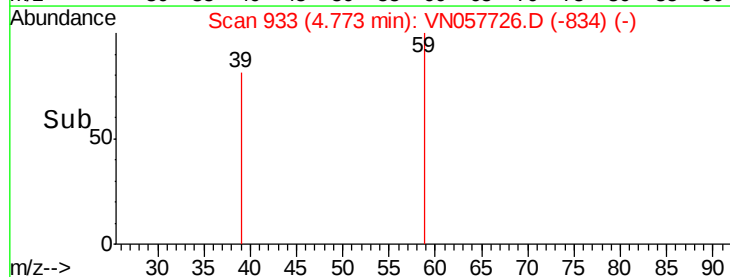
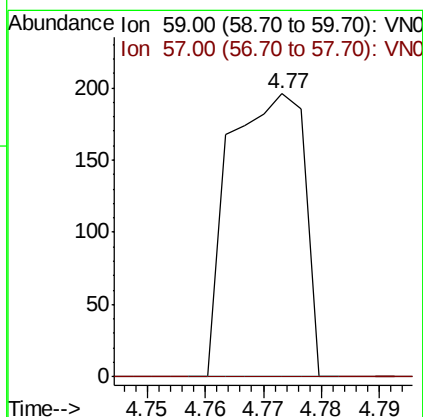
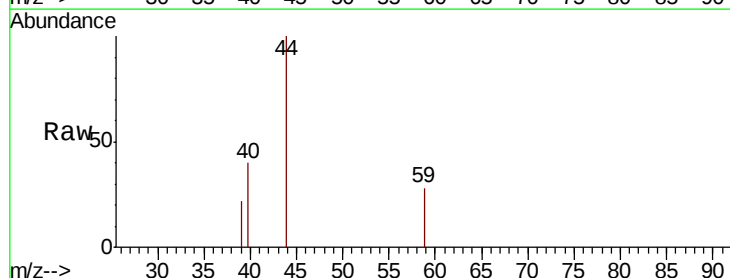
Acq: 6 Sep 2019 20:27

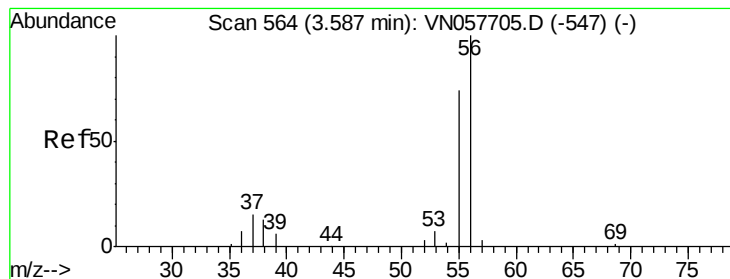
Tgt Ion: 59 Resp: 175

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#





#13

Acrolein

Concen: 0.429 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.02 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

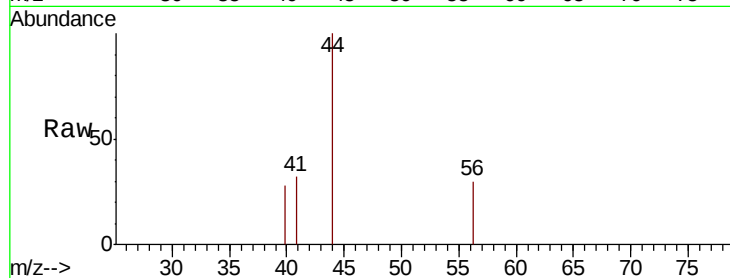
T12-B2-(0)

Tgt Ion: 56 Resp: 109

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

200

150

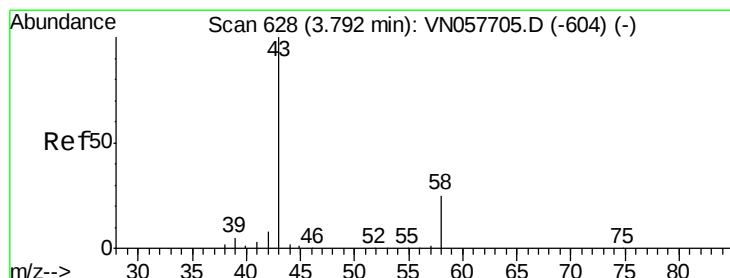
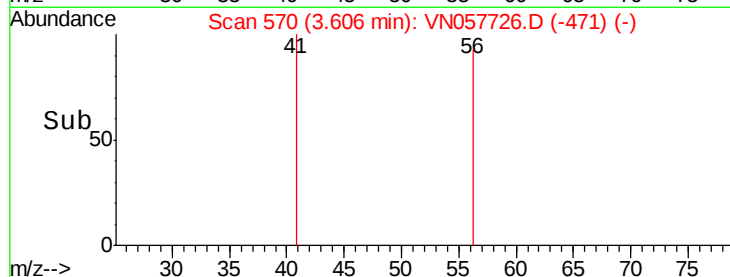
100

50

0

3.59 3.60 3.61

Time-->



#16

Acetone

Concen: 6.881 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057726.D

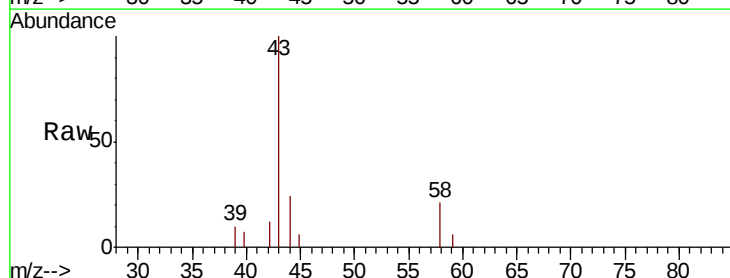
Acq: 6 Sep 2019 20:27

Tgt Ion: 43 Resp: 9966

Ion Ratio Lower Upper

43 100

58 21.1 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

4000

3000

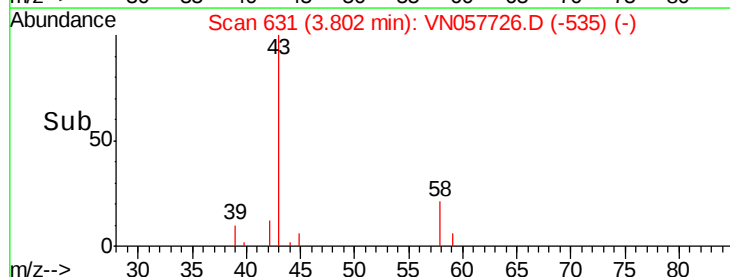
2000

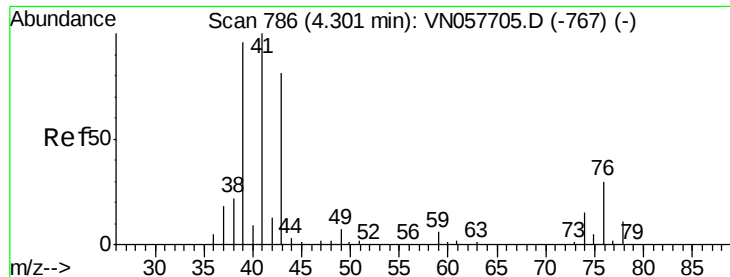
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

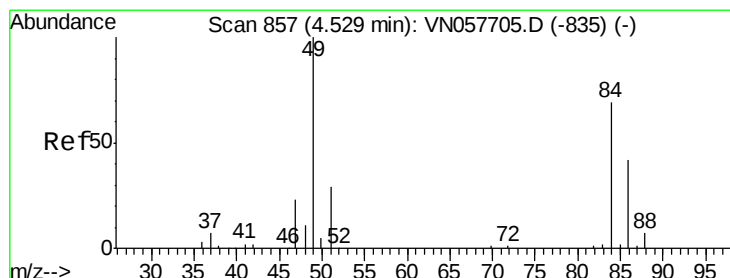
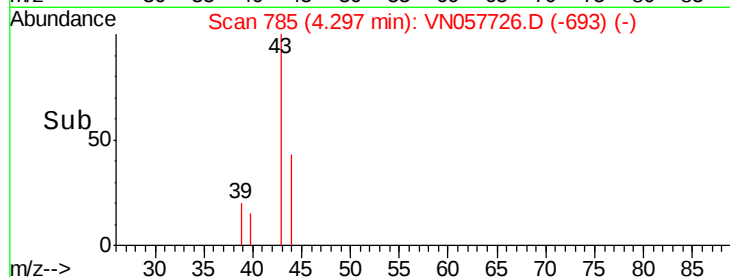
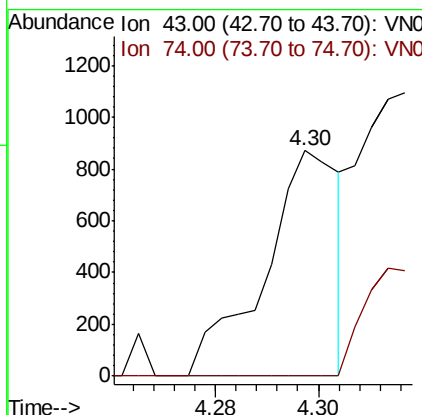
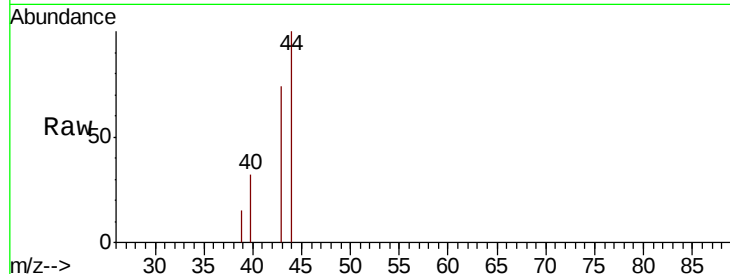




#18
Methyl Acetate
Concen: 0.222 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

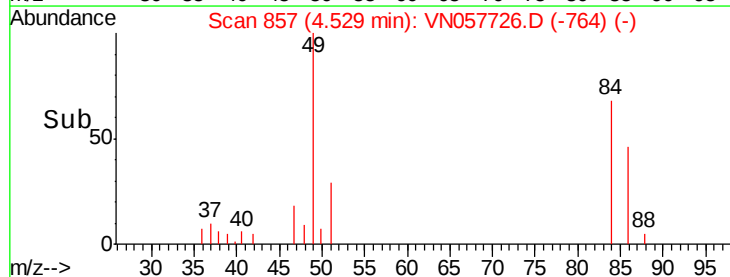
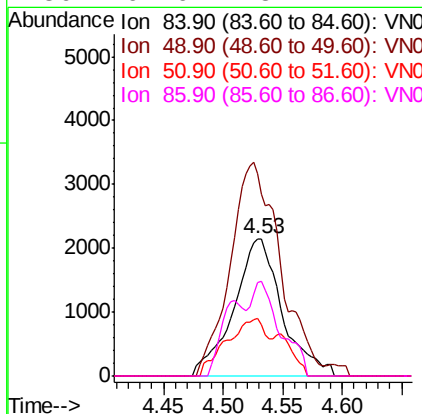
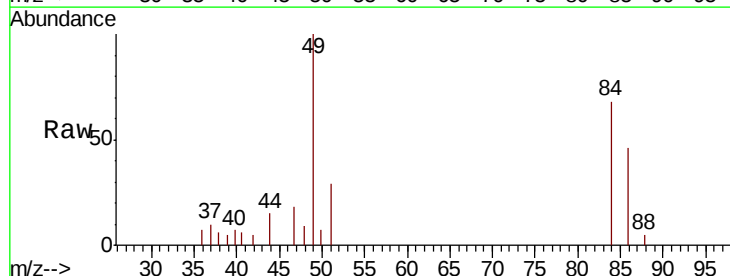
Instrument :
MSVOA_N
ClientSampleId :
T12-B2-(0)

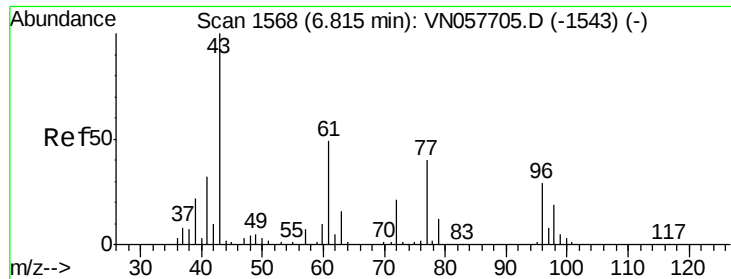
Tgt Ion: 43 Resp: 875
Ion Ratio Lower Upper
43 100
74 0.0 15.3 22.9#



#20
Methylene Chloride
Concen: 1.929 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

Tgt Ion: 84 Resp: 6041
Ion Ratio Lower Upper
84 100
49 146.9 115.0 172.6
51 42.2 33.8 50.8
86 67.6 48.2 72.2





#25

2-Butanone

Concen: 0.575 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampled :

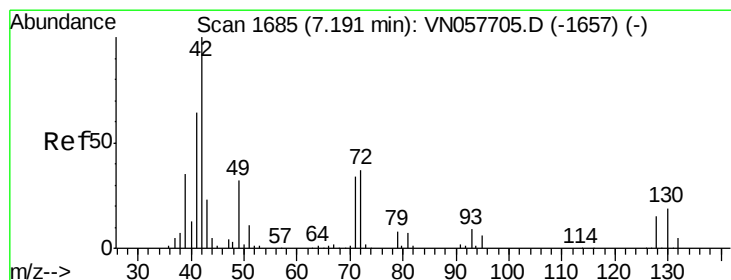
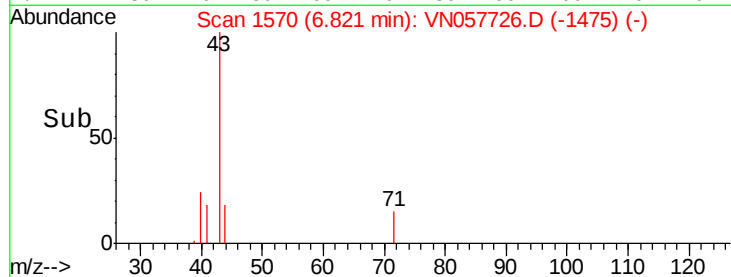
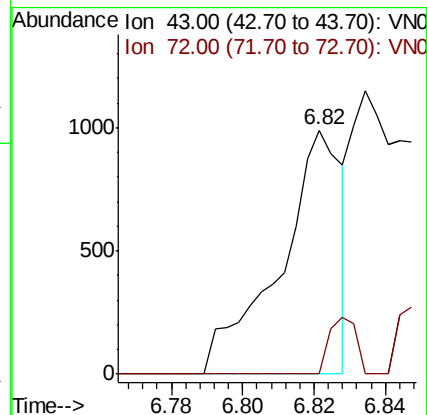
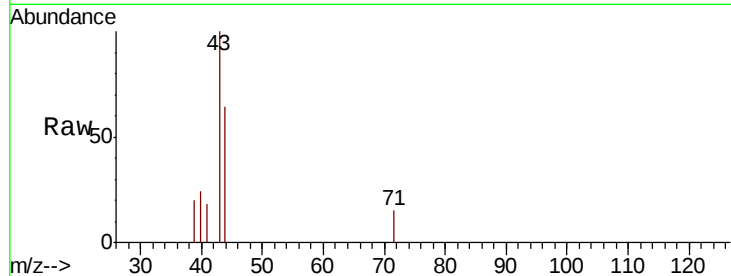
T12-B2-(0)

Tgt Ion: 43 Resp: 1193

Ion Ratio Lower Upper

43 100

72 0.0 17.0 25.6#



#29

Tetrahydrofuran

Concen: 0.232 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

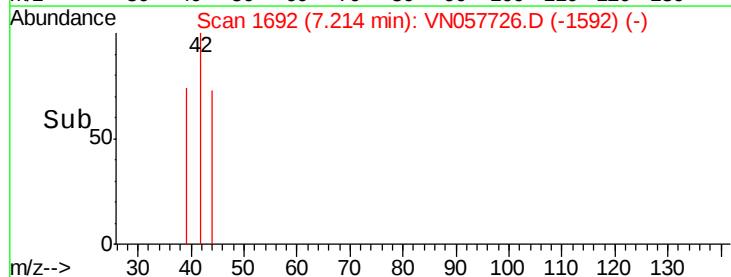
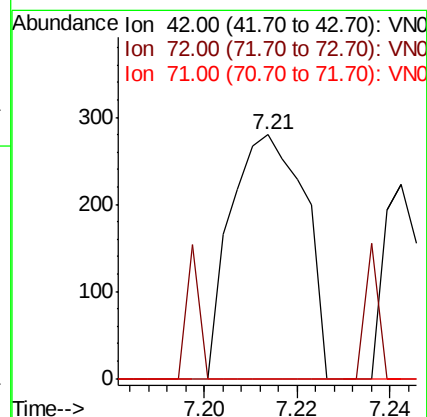
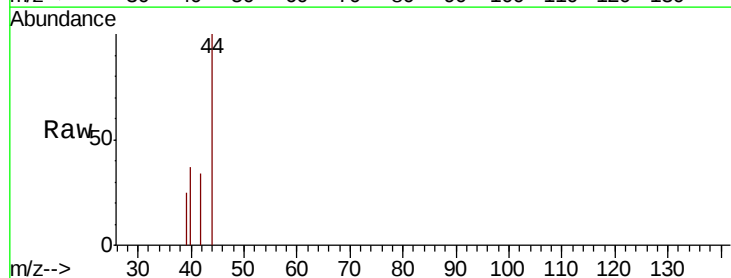
Tgt Ion: 42 Resp: 311

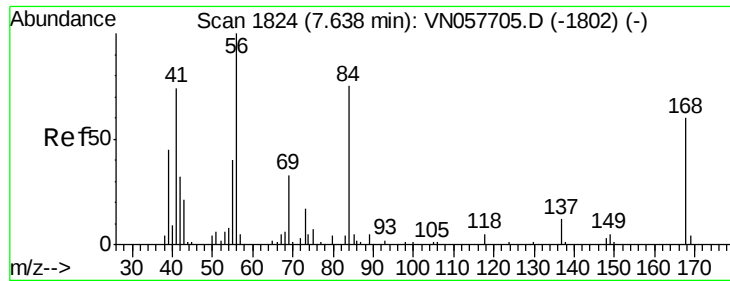
Ion Ratio Lower Upper

42 100

72 9.6 29.2 43.8#

71 0.0 27.0 40.4#

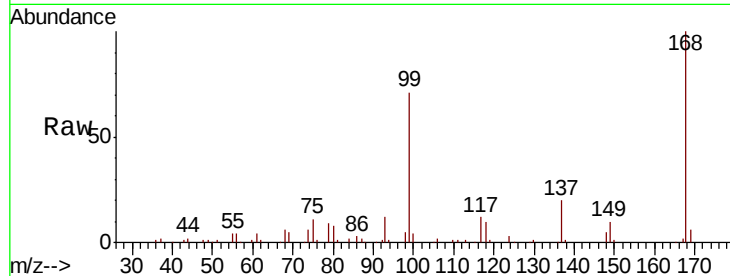




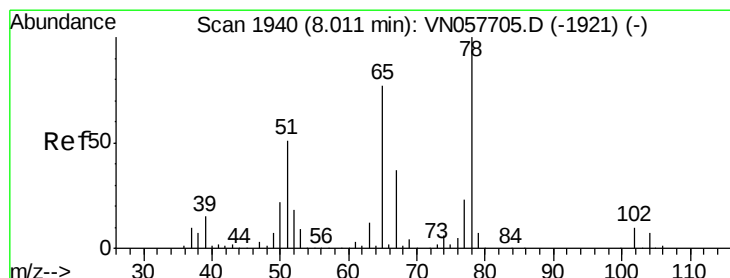
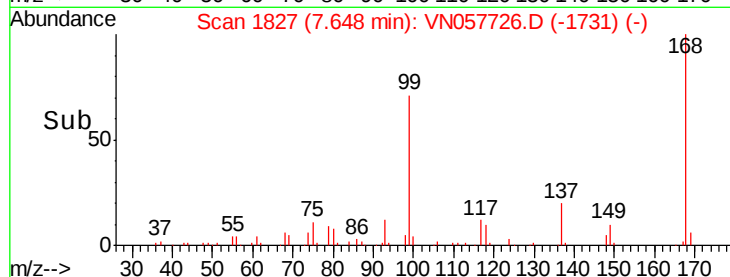
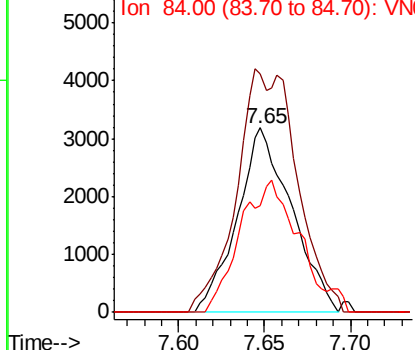
#31
Cyclohexane
Concen: 1.324 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

Instrument :
MSVOA_N
ClientSampled :
T12-B2-(0)

Tgt Ion: 56 Resp: 6992
Ion Ratio Lower Upper
56 100
69 129.2 26.2 39.2#
84 57.8 59.8 89.8#

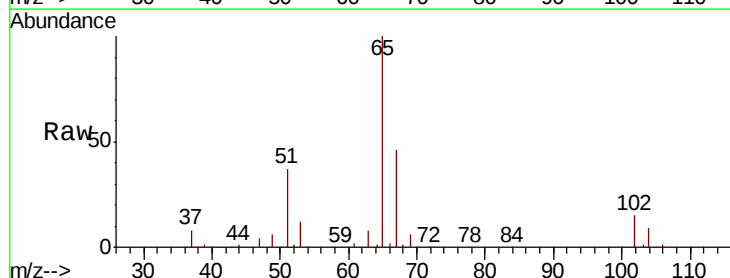


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

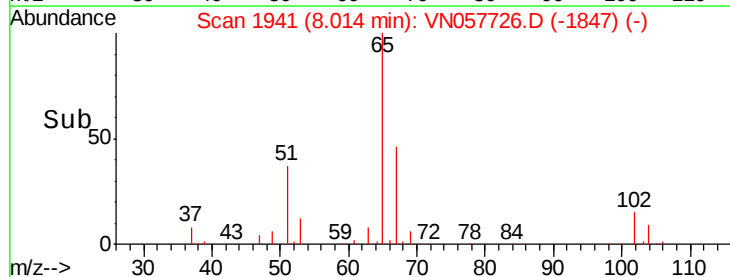
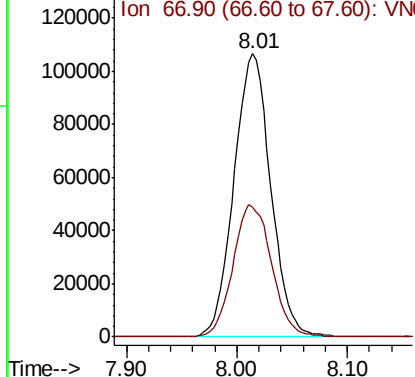


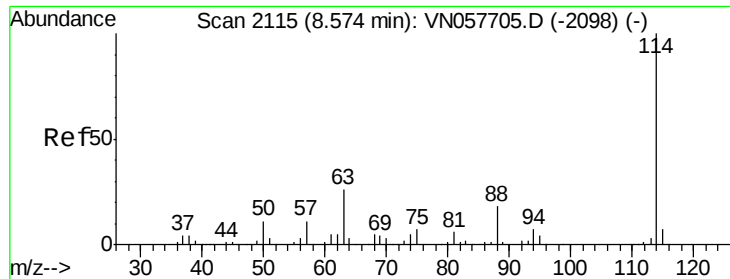
#33
1,2-Dichloroethane-d4
Concen: 52.450 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

Tgt Ion: 65 Resp: 246858
Ion Ratio Lower Upper
65 100
67 49.0 0.0 98.2



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

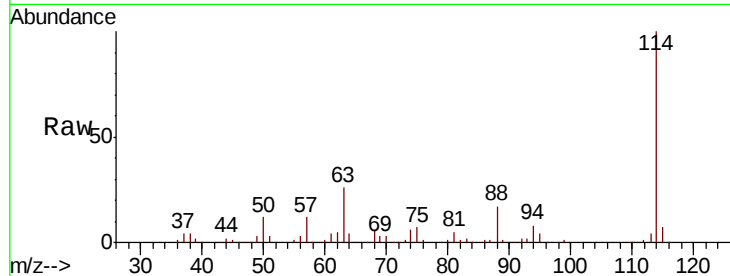




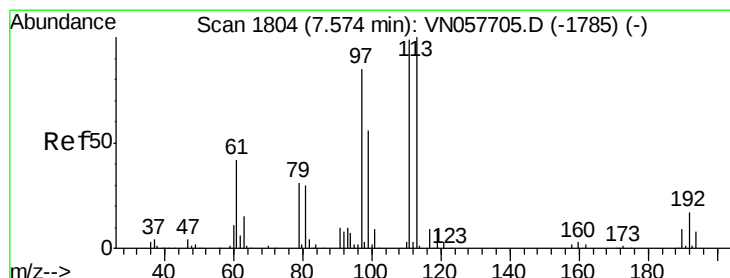
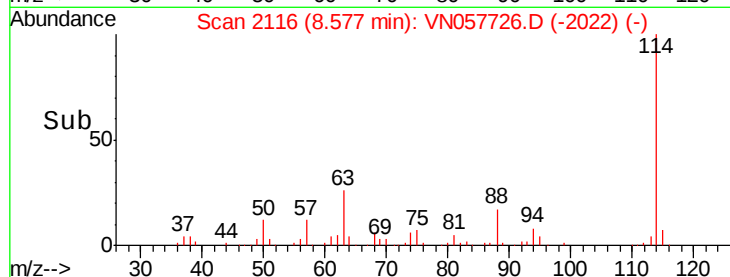
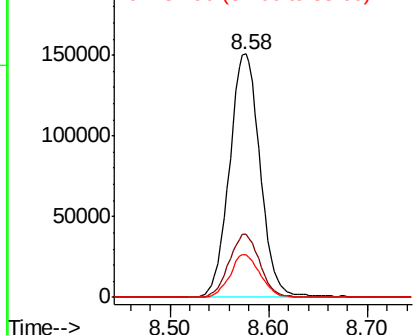
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057726.D
 Acq: 6 Sep 2019 20:27

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B2-(0)

Tgt Ion:114 Resp: 326232
 Ion Ratio Lower Upper
 114 100
 63 26.1 0.0 52.4
 88 17.4 0.0 35.4

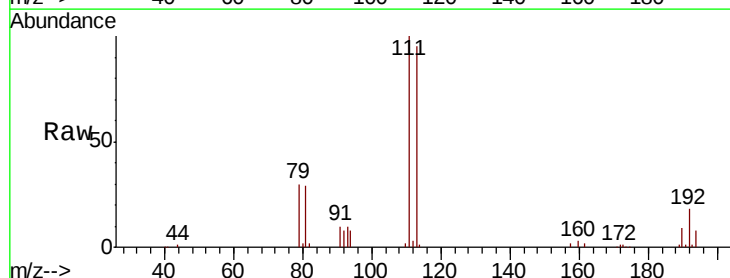


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

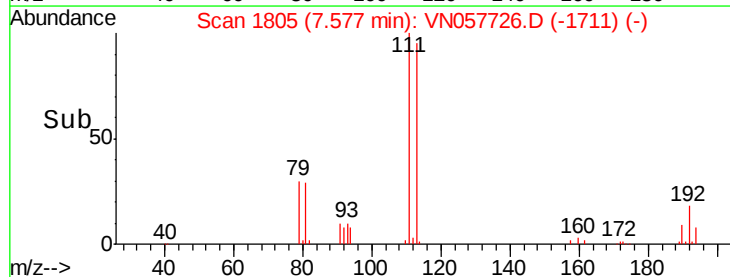
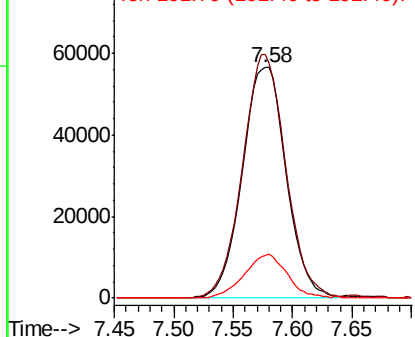


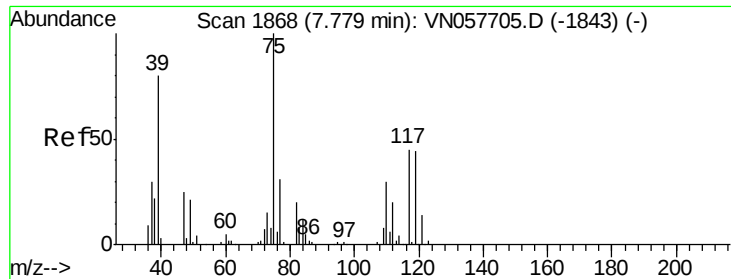
#35
 Dibromofluoromethane
 Concen: 48.688 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057726.D
 Acq: 6 Sep 2019 20:27

Tgt Ion:113 Resp: 144675
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.7 124.1
 192 18.7 13.8 20.6



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

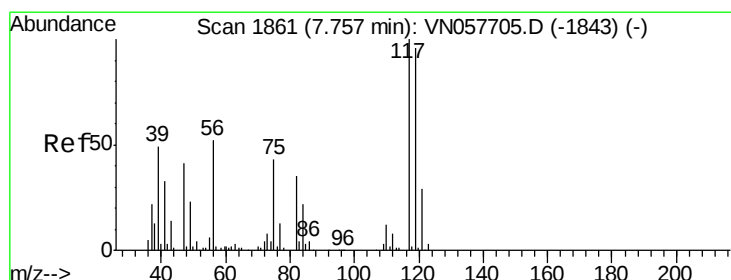
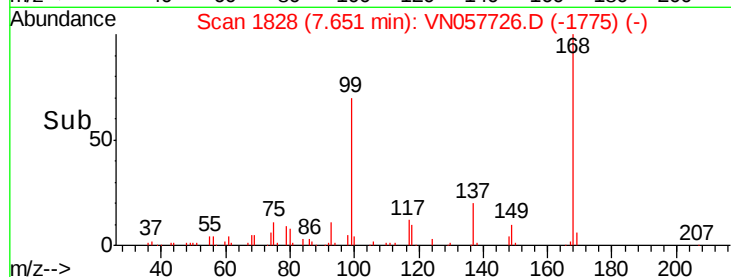
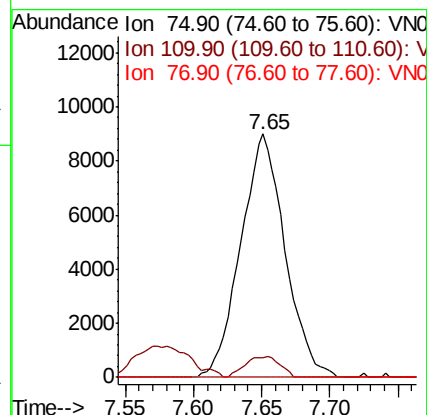
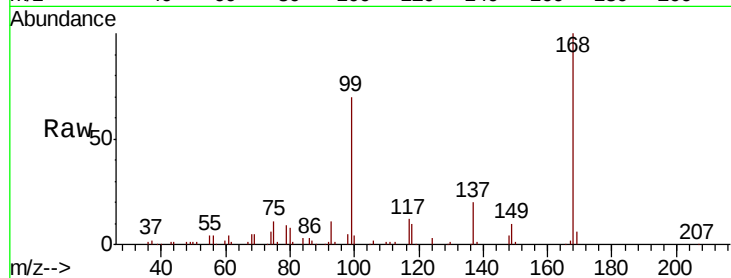




#36
 1,1-Dichloropropene
 Concen: 4.665 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057726.D
 Acq: 6 Sep 2019 20:27

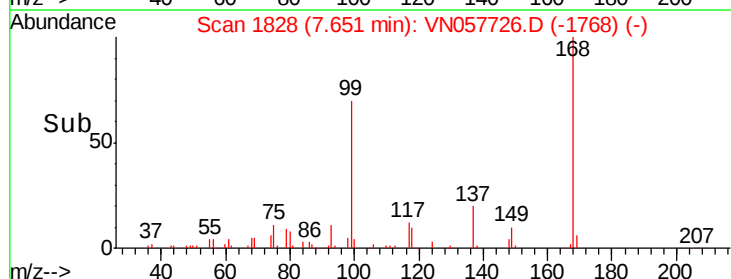
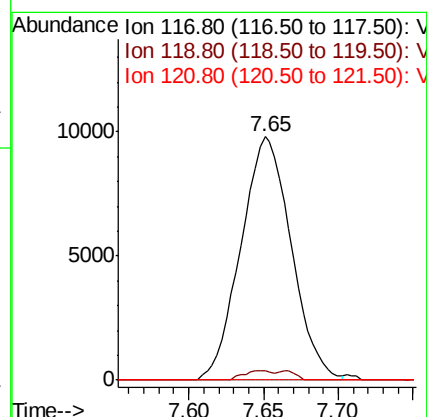
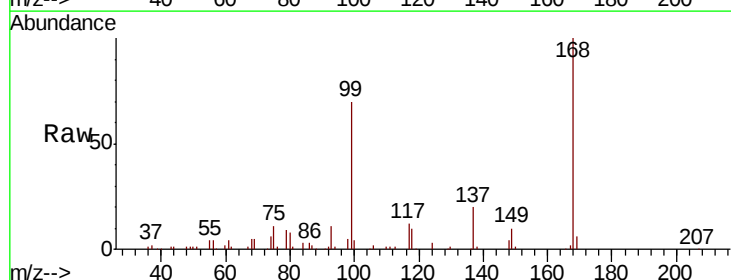
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B2-(0)

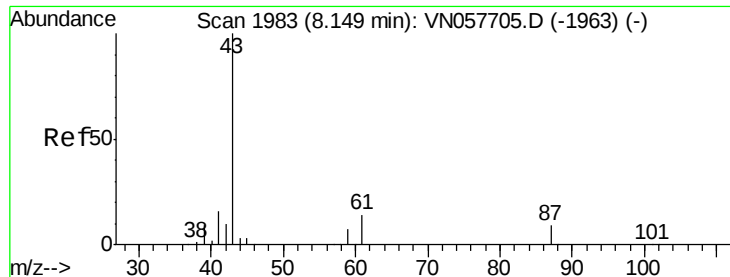
Tgt Ion: 75 Resp: 20246
 Ion Ratio Lower Upper
 75 100
 110 6.7 15.0 45.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.522 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057726.D
 Acq: 6 Sep 2019 20:27

Tgt Ion: 117 Resp: 22949
 Ion Ratio Lower Upper
 117 100
 119 3.8 76.1 114.1#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 5.619 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampled :

T12-B2-(0)

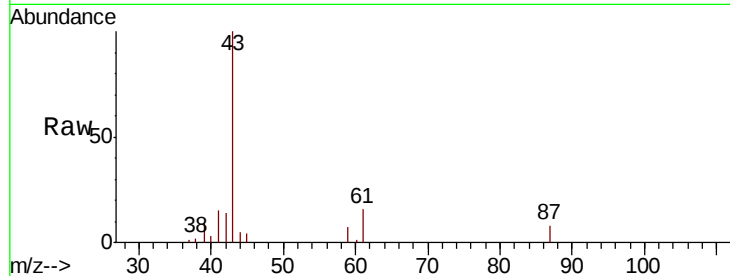
Tgt Ion: 43 Resp: 46470

Ion Ratio Lower Upper

43 100

61 15.5 12.8 19.2

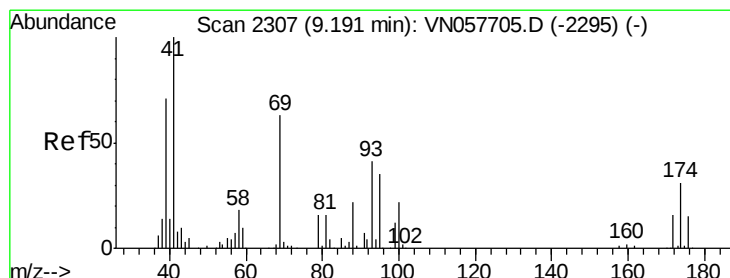
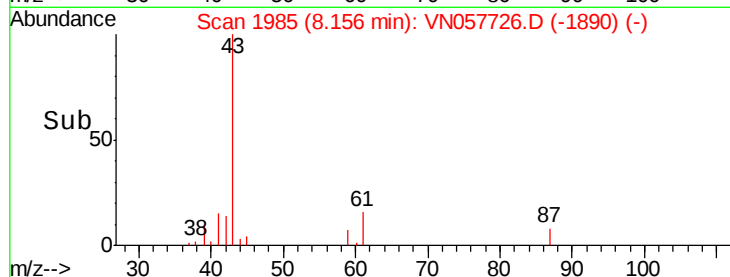
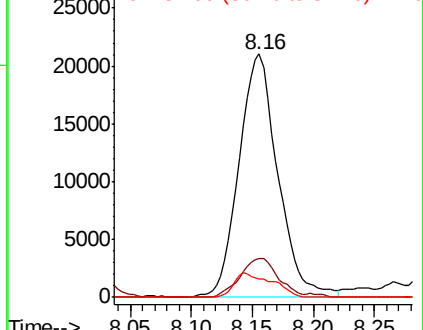
87 9.9 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.054 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

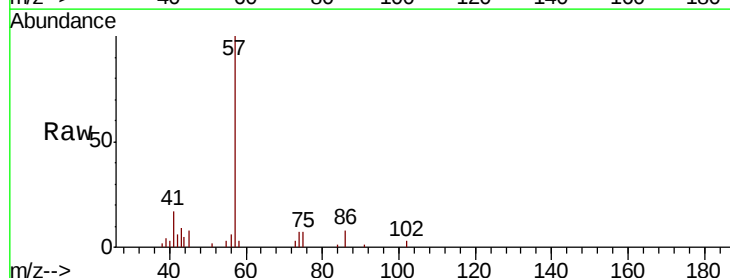
Tgt Ion: 41 Resp: 4484

Ion Ratio Lower Upper

41 100

69 0.0 51.2 76.8#

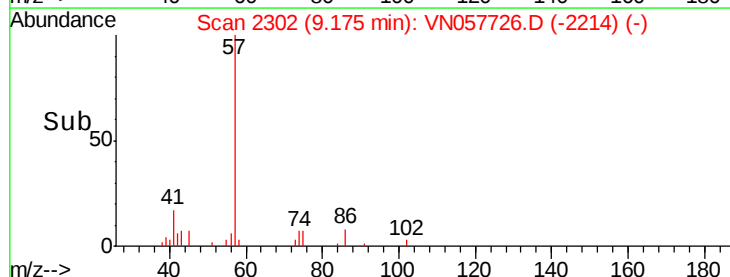
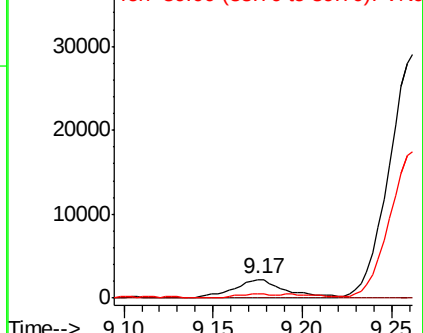
39 0.0 57.3 85.9#

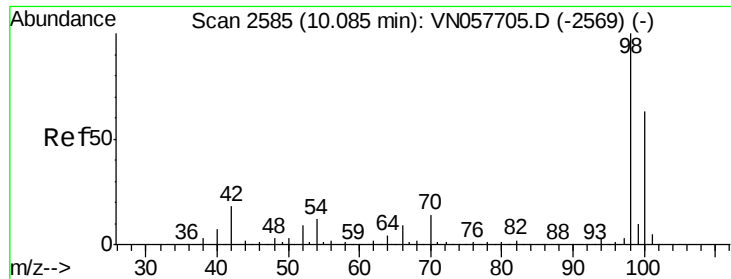


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 51.781 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampled :

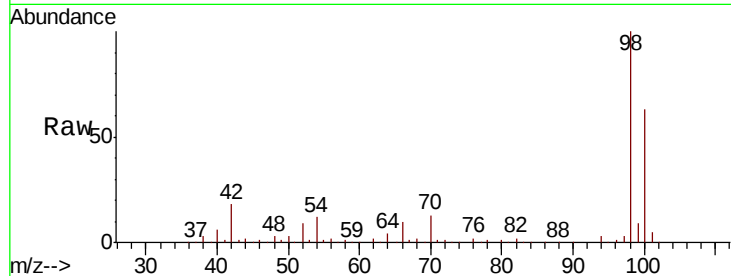
T12-B2-(0)

Tgt Ion: 98 Resp: 569182

Ion Ratio Lower Upper

98 100

100 61.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057705.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057705.D (-2569) (-)

10.08

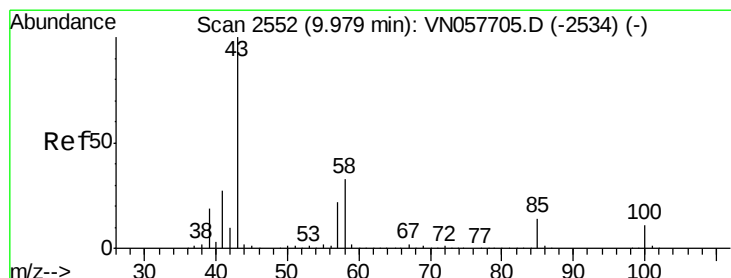
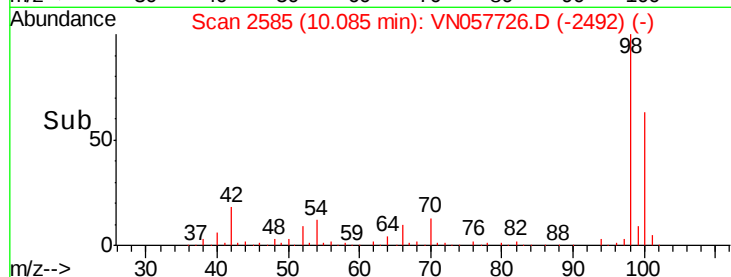
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.862 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057726.D

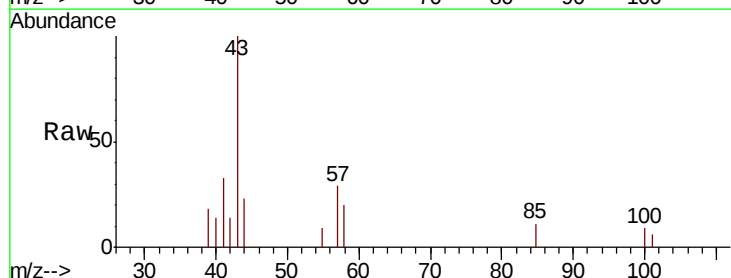
Acq: 6 Sep 2019 20:27

Tgt Ion: 43 Resp: 3961

Ion Ratio Lower Upper

43 100

58 24.4 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057705.D (-2534) (-)

9.98

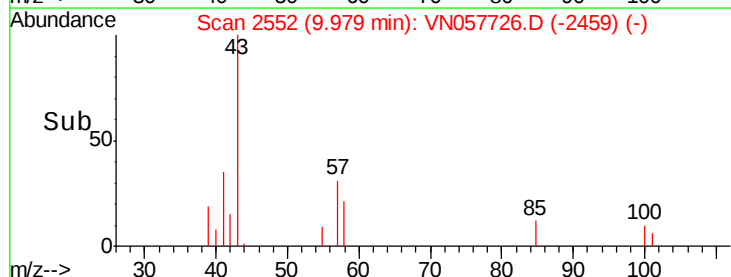
3000

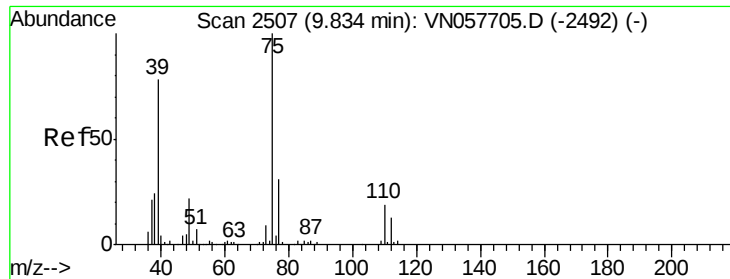
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.757 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

T12-B2-(0)

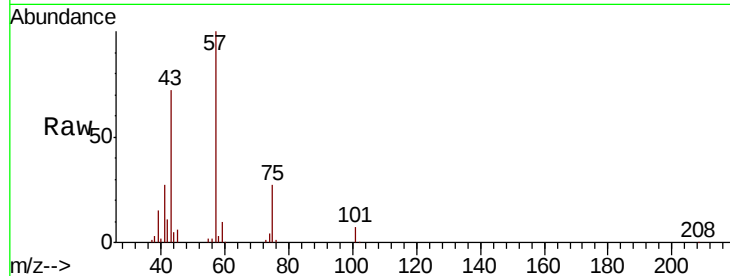
Tgt Ion: 75 Resp: 24131

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

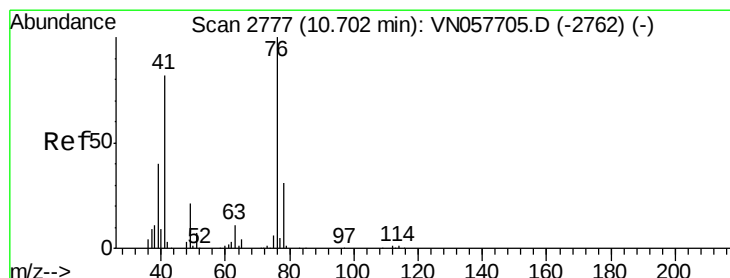
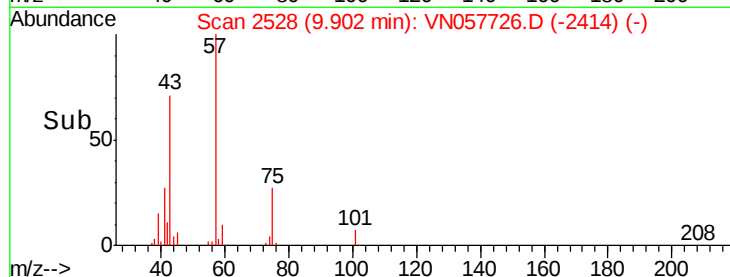
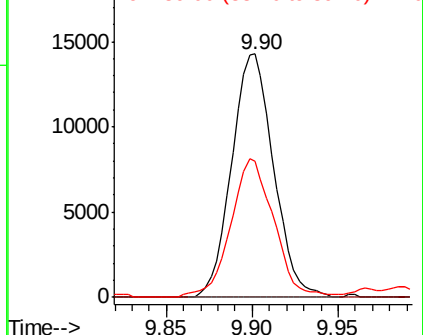
39 54.7 62.4 93.6#



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: 0.632 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN057726.D

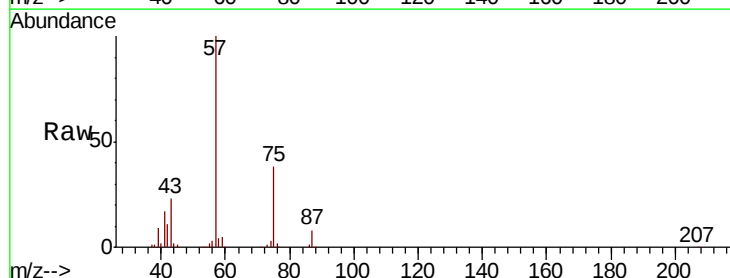
Acq: 6 Sep 2019 20:27

Tgt Ion: 76 Resp: 3401

Ion Ratio Lower Upper

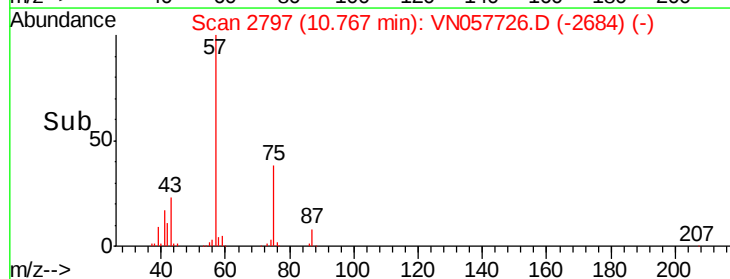
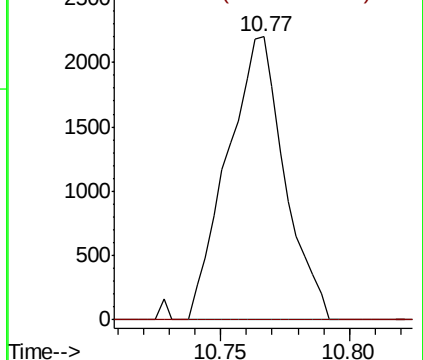
76 100

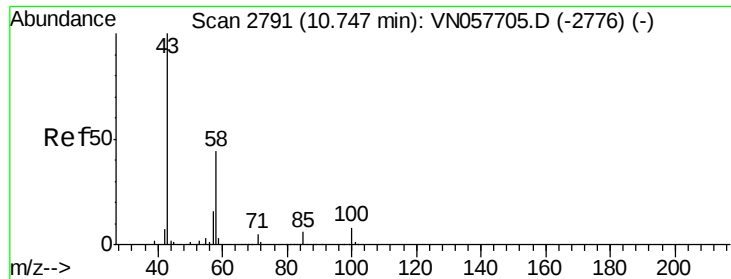
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

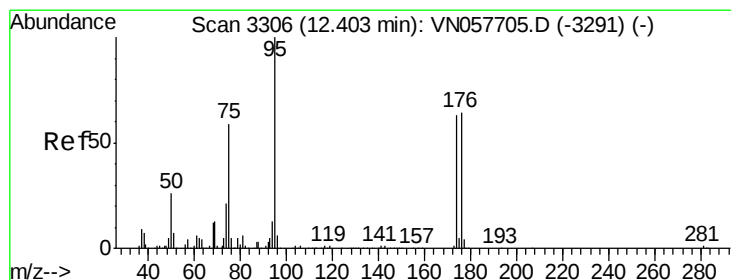
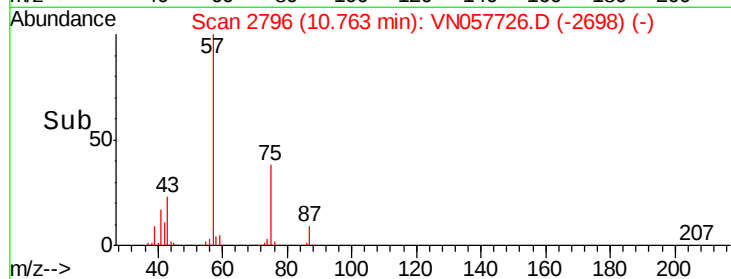
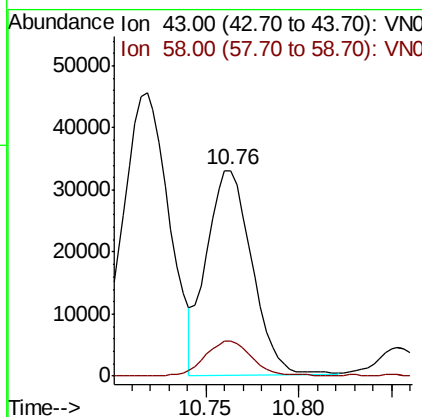
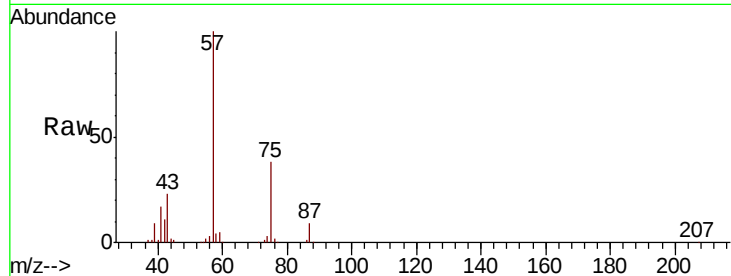




#59
2-Hexanone
Concen: 17.338 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

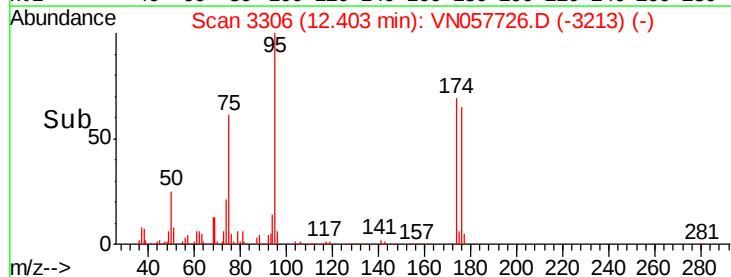
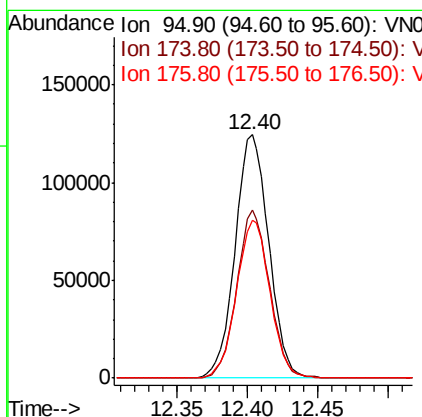
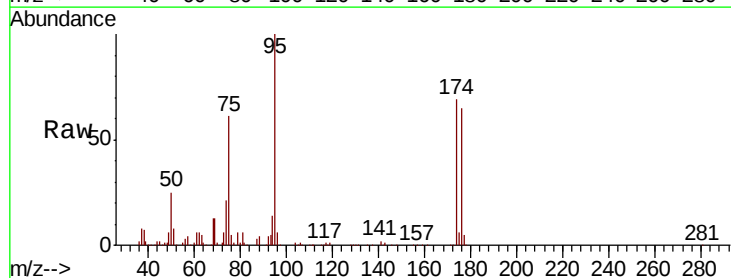
Instrument :
MSVOA_N
ClientSampled :
T12-B2-(0)

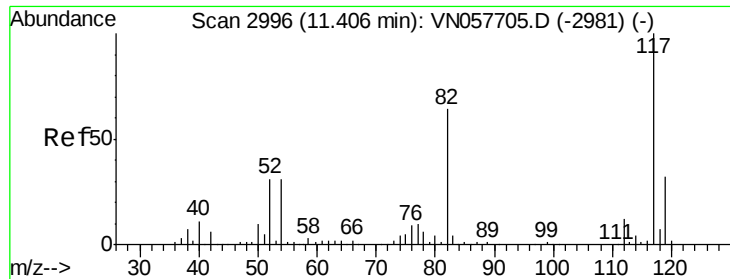
Tgt Ion: 43 Resp: 56153
Ion Ratio Lower Upper
43 100
58 17.7 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 45.594 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

Tgt Ion: 95 Resp: 208166
Ion Ratio Lower Upper
95 100
174 66.8 0.0 128.0
176 64.6 0.0 128.0

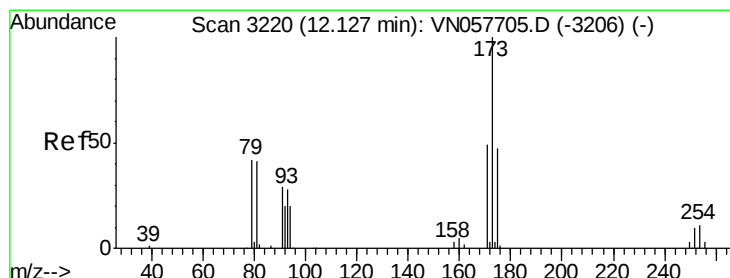
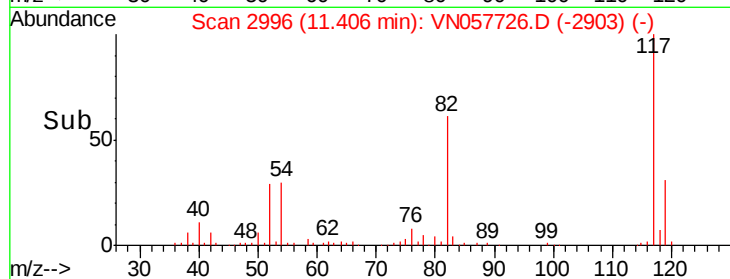
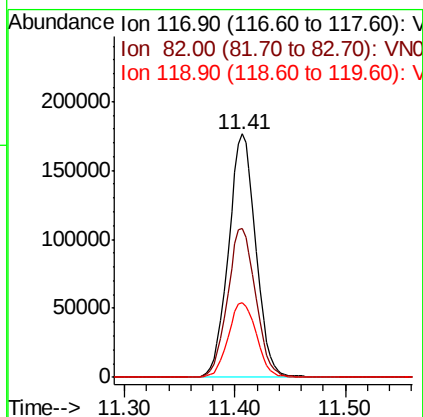
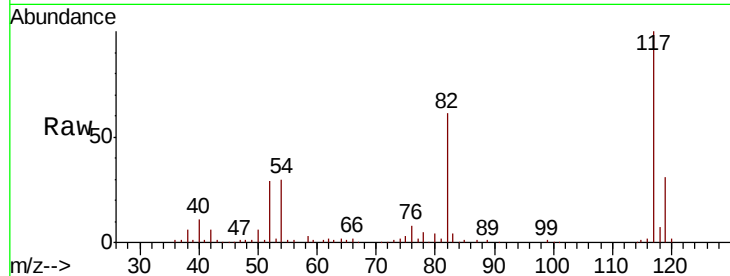




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

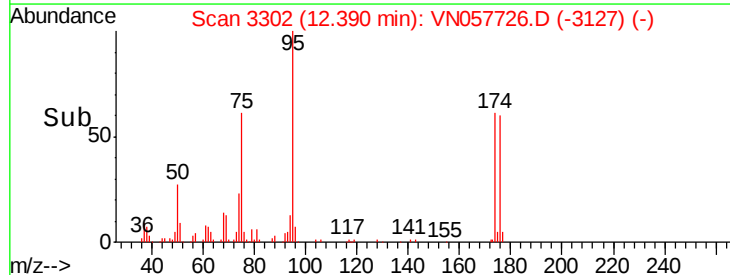
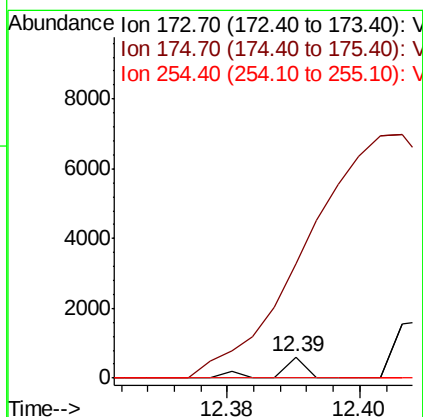
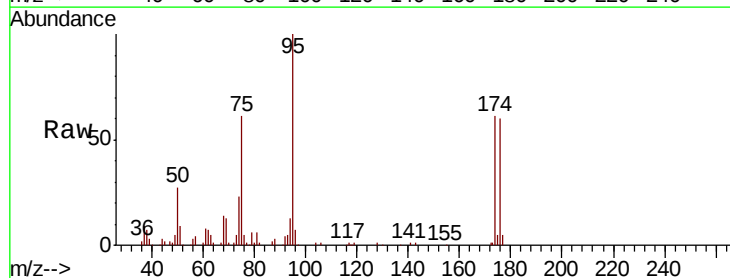
Instrument :
MSVOA_N
ClientSampleId :
T12-B2-(0)

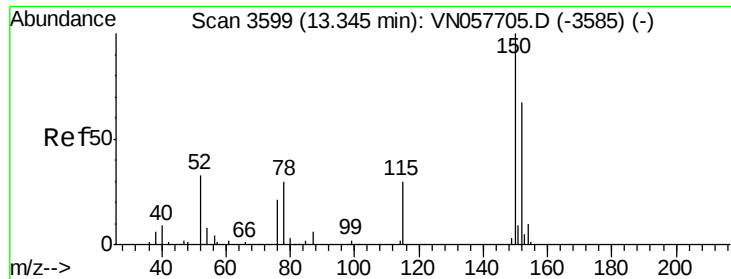
Tgt Ion:117 Resp: 302294
Ion Ratio Lower Upper
117 100
82 61.3 51.4 77.0
119 30.5 25.4 38.2



#71
Bromoform
Concen: 3.312 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN057726.D
Acq: 6 Sep 2019 20:27

Tgt Ion:173 Resp: 153
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

T12-B2-(0)

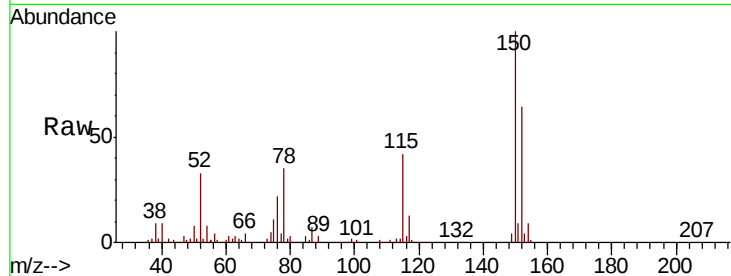
Tgt Ion:152 Resp: 151326

Ion Ratio Lower Upper

152 100

115 66.9 33.8 101.3

150 157.5 0.0 345.4

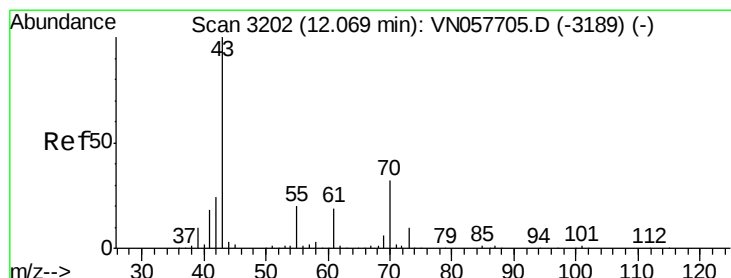
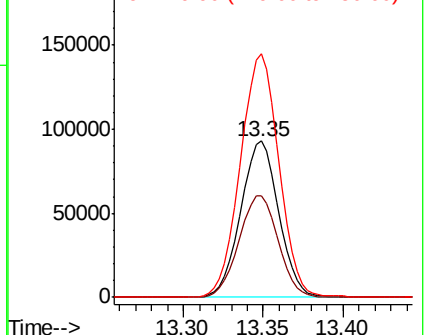
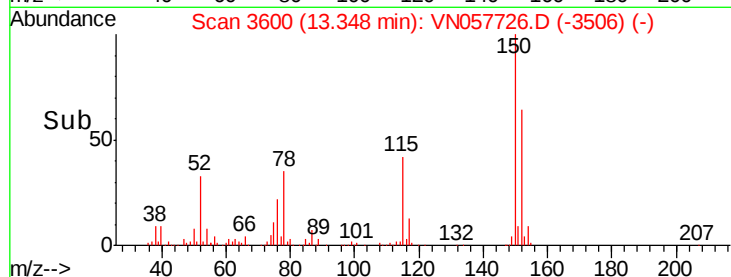


Abundance

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: 0.455 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Tgt Ion: 43 Resp: 3042

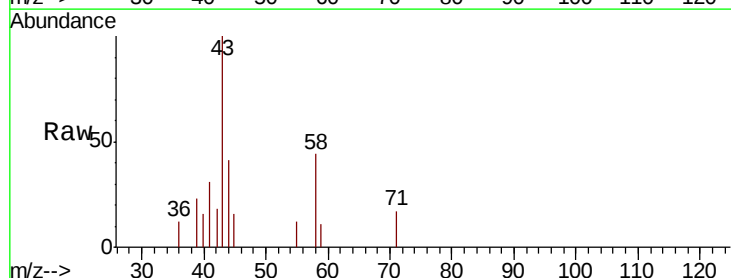
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 5.7 16.3 24.5#

61 0.0 15.0 22.4#



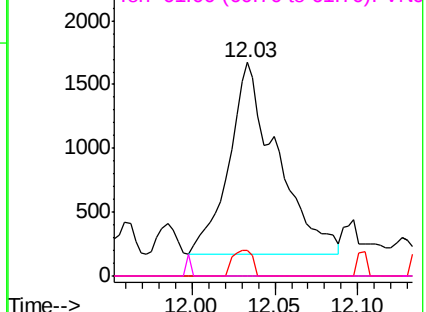
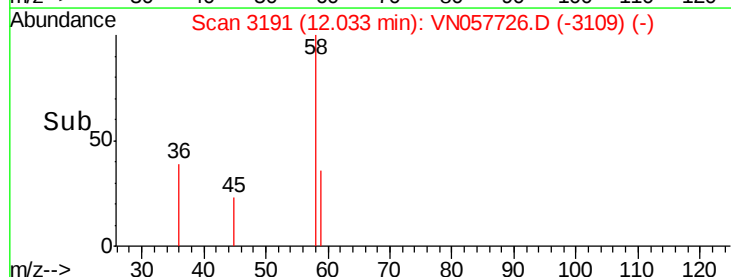
Abundance

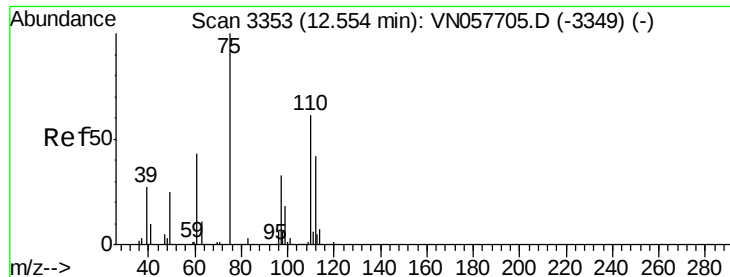
Ion 43.00 (42.70 to 43.70): V

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: 36.301 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

Instrument :

MSVOA_N

ClientSampleId :

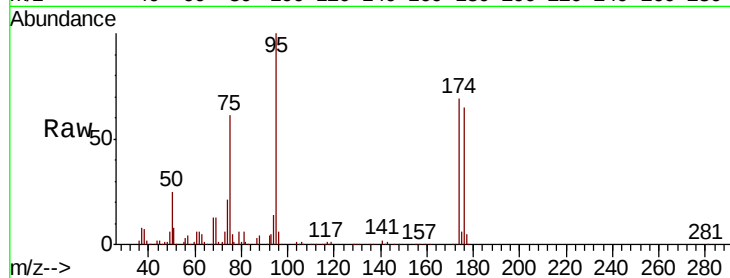
T12-B2-(0)

Tgt Ion: 75 Resp: 126146

Ion Ratio Lower Upper

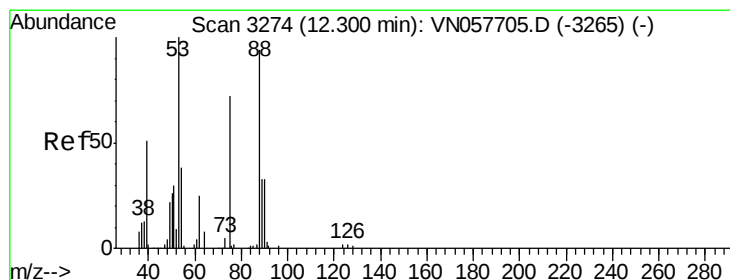
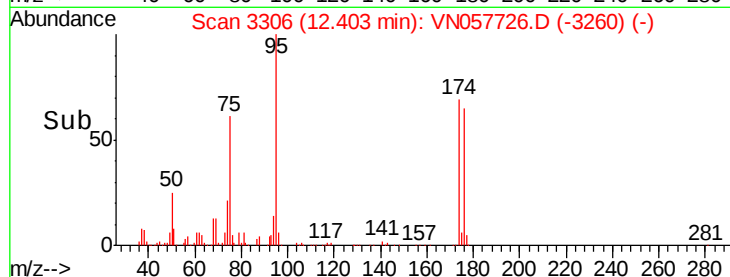
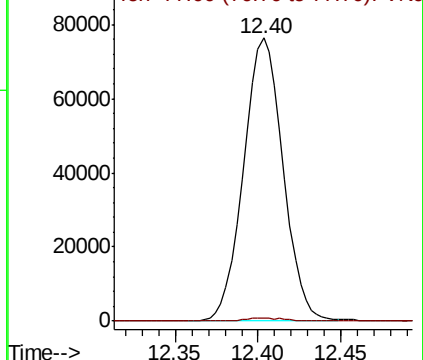
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 112.896 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057726.D

Acq: 6 Sep 2019 20:27

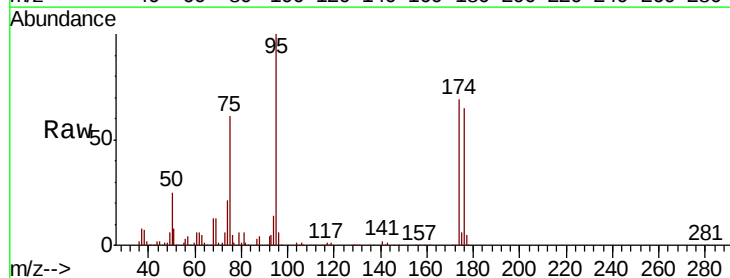
Tgt Ion: 75 Resp: 126146

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

