

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057723.D
 Acq On : 6 Sep 2019 19:21
 Operator : JC/SP
 Sample : K4580-21
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A3-(3.5)

Quant Time: Sep 06 23:26:54 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	192742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330272	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	298083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152314	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	248226	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
35) Dibromofluoromethane	7.58	113	147616	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	10.09	98	572248	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
62) 4-Bromofluorobenzene	12.40	95	214864	46.49	ug/l	0.00
Spiked Amount			Recovery	=	92.98%	

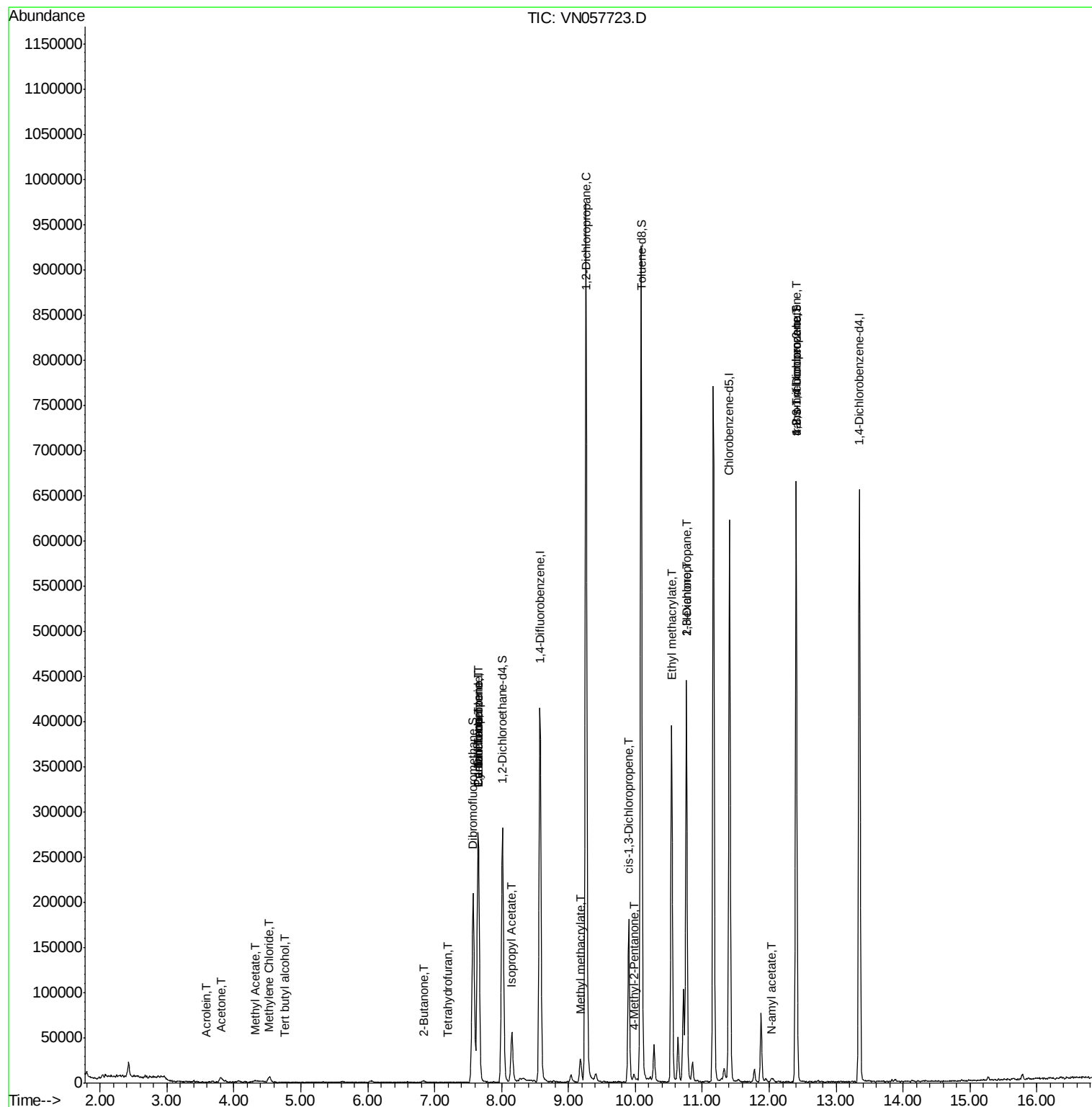
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2124	Below Cal		95
11) Tert butyl alcohol	4.76	59	272	0.511	ug/l #	71
13) Acrolein	3.59	56	72	0.284	ug/l #	15
16) Acetone	3.81	43	8778	6.083	ug/l	98
18) Methyl Acetate	4.31	43	2273	0.579	ug/l	100
20) Methylene Chloride	4.52	84	2235	0.716	ug/l #	60
25) 2-Butanone	6.83	43	1868	0.904	ug/l #	55
29) Tetrahydrofuran	7.20	42	318	0.239	ug/l #	40
31) Cyclohexane	7.65	56	6423	1.220	ug/l #	28
36) 1,1-Dichloropropene	7.65	75	20466	4.658	ug/l #	53
38) Carbon Tetrachloride	7.65	117	22816	5.423	ug/l #	16
43) Isopropyl Acetate	8.15	43	67690	8.085	ug/l	99
45) 1,2-Dichloropropane	9.27	63	1106	0.318	ug/l #	44
48) Methyl methacrylate	9.18	41	4169	0.968	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	4404	0.947	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	27239	5.304	ug/l #	67
56) Ethyl methacrylate	10.54	69	1154	0.239	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4180	0.768	ug/l #	43
59) 2-Hexanone	10.76	43	73388	22.382	ug/l #	59
74) N-amyl acetate	12.03	43	2694	0.400	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	127486	36.449	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	127486	113.355	ug/l #	1

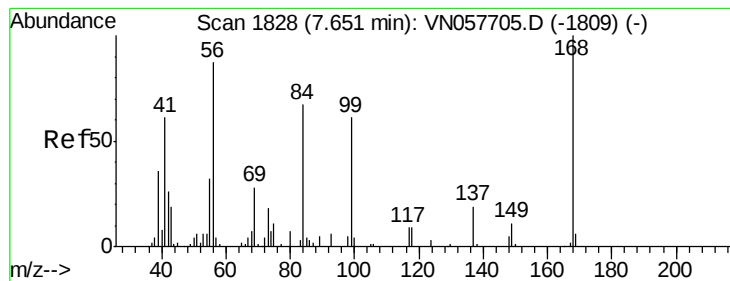
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
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Instrument :
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ClientSampleId :
T12-A3-(3.5)

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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: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

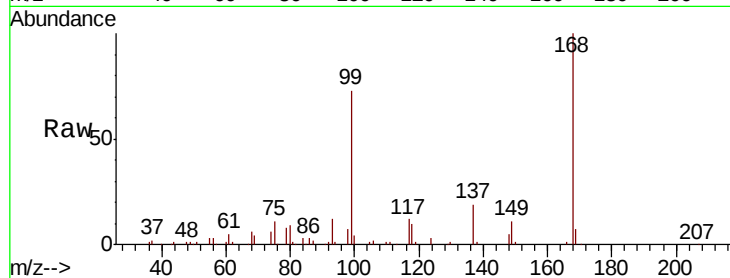
T12-A3-(3.5)

Tgt Ion:168 Resp: 192742

Ion Ratio Lower Upper

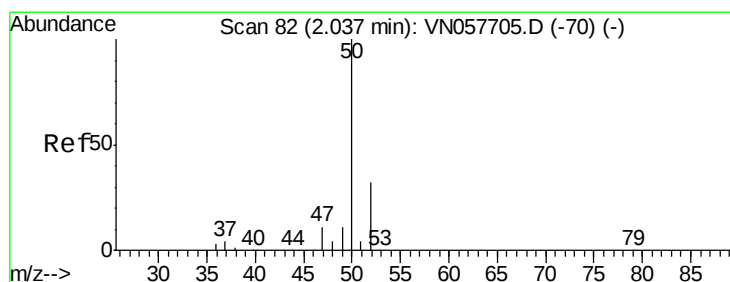
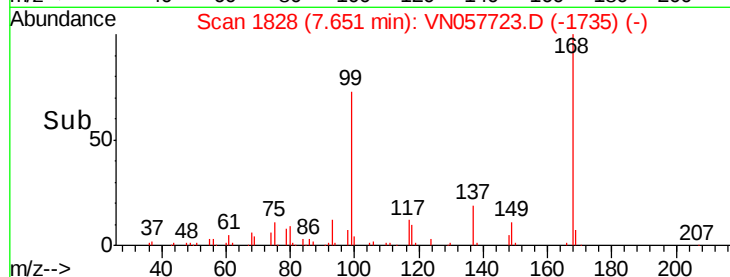
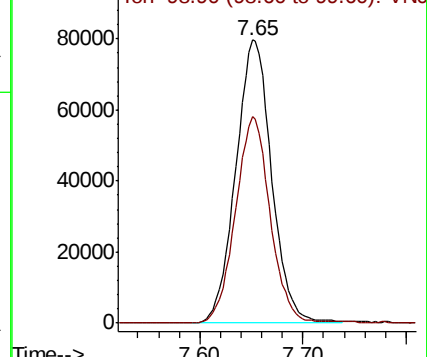
168 100

99 72.9 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057723.D

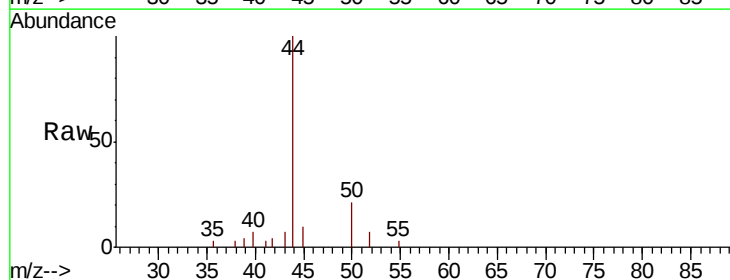
Acq: 6 Sep 2019 19:21

Tgt Ion: 50 Resp: 2124

Ion Ratio Lower Upper

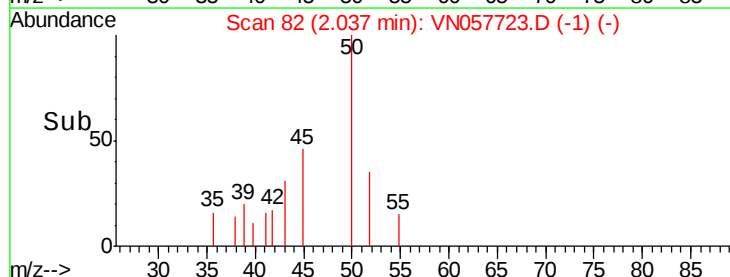
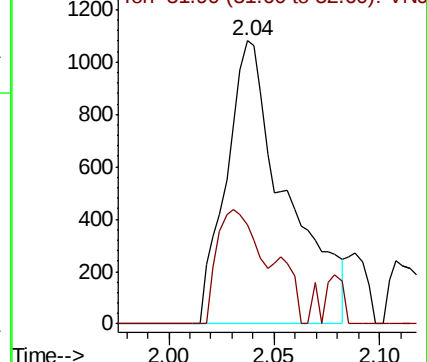
50 100

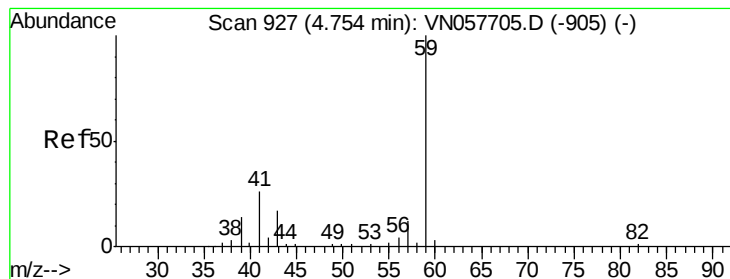
52 35.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN



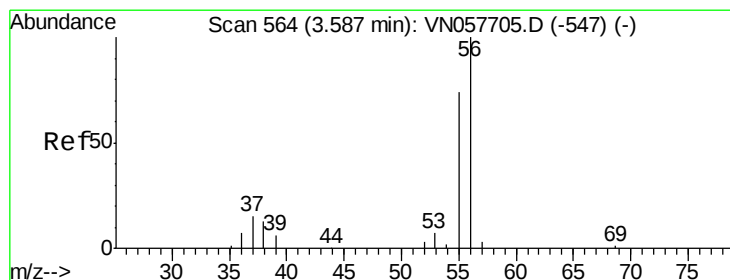
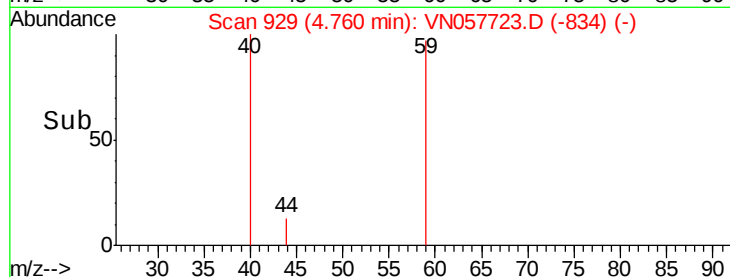
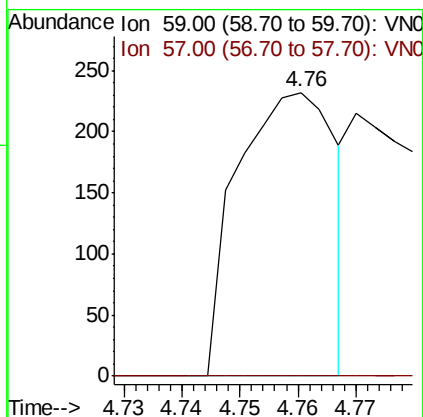
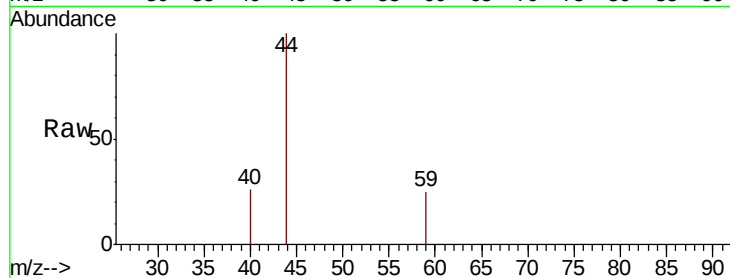


#11

Tert butyl alcohol
 Concen: 0.511 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Instrument :
 MSVOA_N
 ClientSampled :
 T12-A3-(3.5)

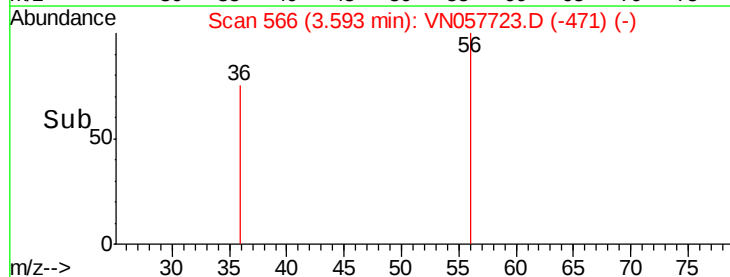
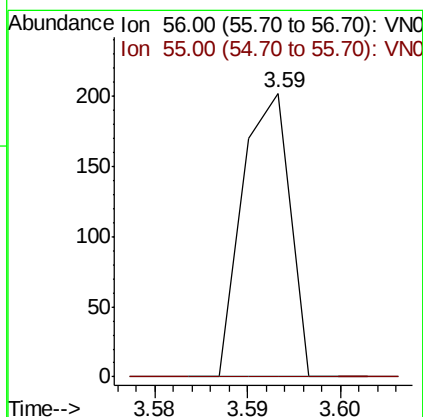
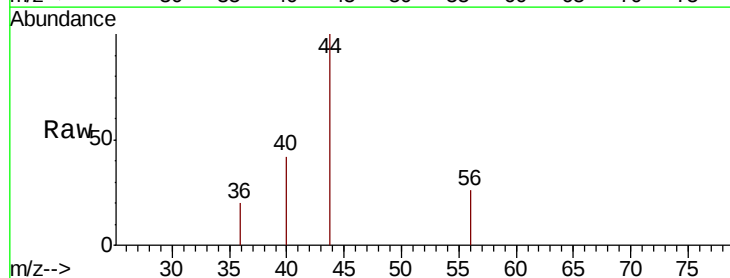
Tgt Ion: 59 Resp: 272
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.9 13.3#

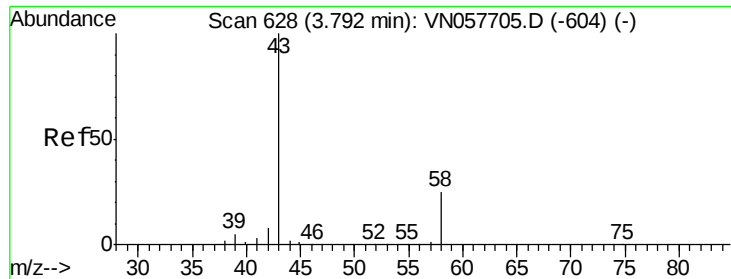


#13

Acrolein
 Concen: 0.284 ug/l
 RT: 3.59 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Tgt Ion: 56 Resp: 72
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.0#

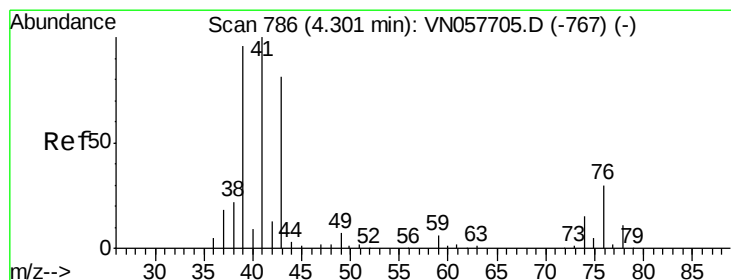
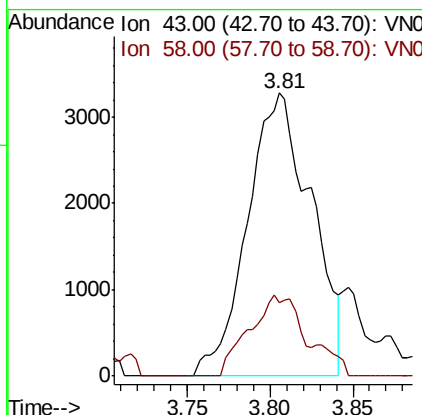
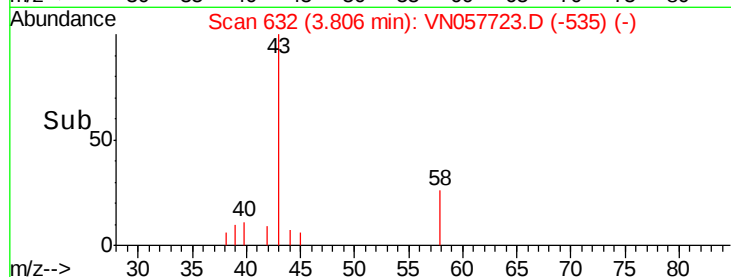
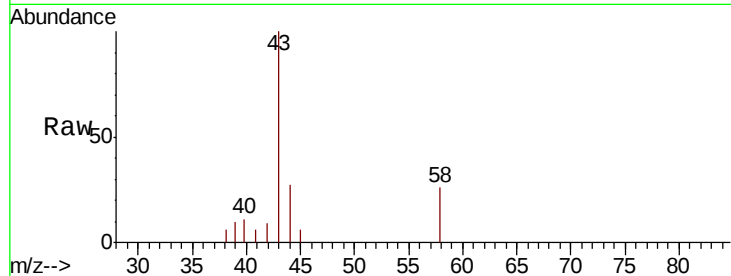




#16
 Acetone
 Concen: 6.083 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

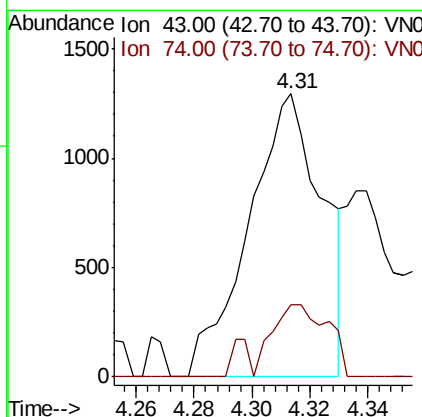
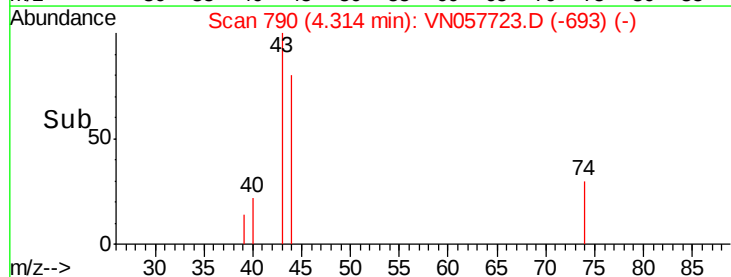
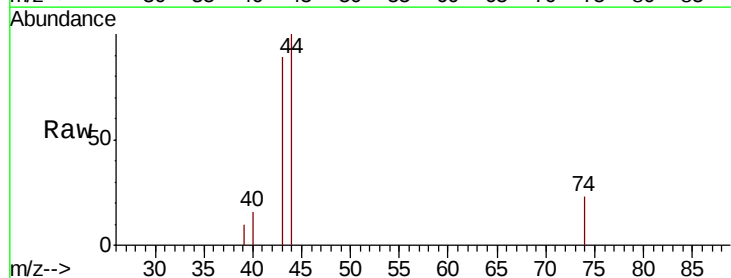
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A3-(3.5)

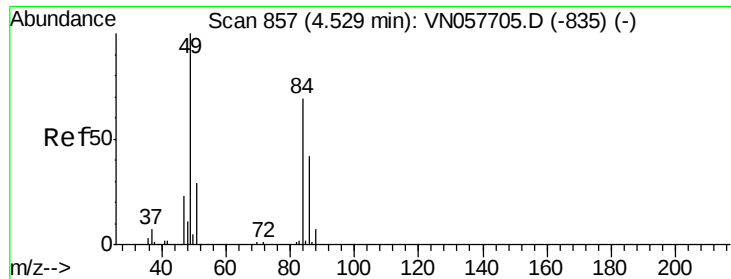
Tgt Ion: 43 Resp: 8778
 Ion Ratio Lower Upper
 43 100
 58 25.8 19.8 29.8



#18
 Methyl Acetate
 Concen: 0.579 ug/l
 RT: 4.31 min Scan# 790
 Delta R.T. 0.01 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Tgt Ion: 43 Resp: 2273
 Ion Ratio Lower Upper
 43 100
 74 19.3 15.3 22.9





#20

Methylene Chloride

Concen: 0.716 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.01 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :
MSVOA_N
ClientSampled :
T12-A3-(3.5)

Tgt Ion: 84 Resp: 2235

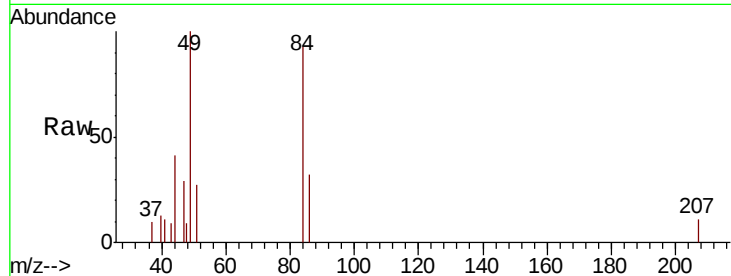
Ion Ratio Lower Upper

84 100

49 84.9 115.0 172.6#

51 28.9 33.8 50.8#

86 34.6 48.2 72.2#

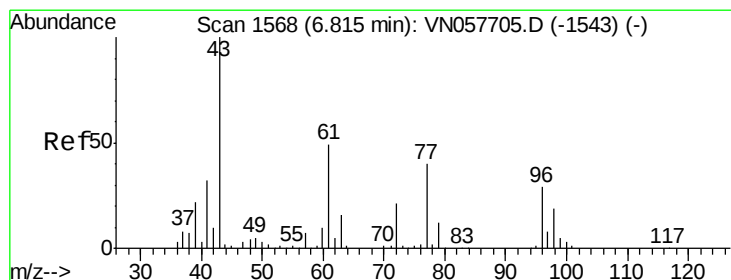
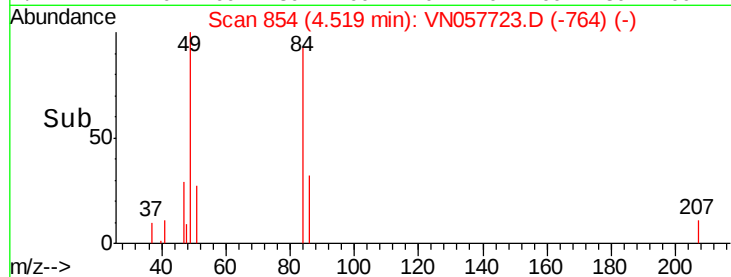
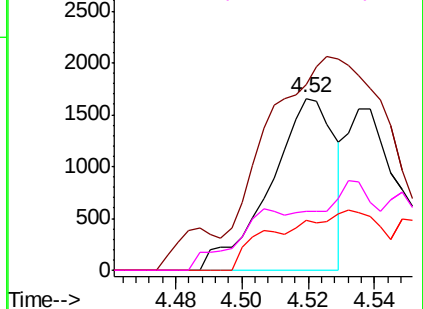


Abundance Ion 83.90 (83.60 to 84.60): VN057723.D (-835) (-)

Ion 48.90 (48.60 to 49.60): VN057723.D (-835) (-)

Ion 50.90 (50.60 to 51.60): VN057723.D (-835) (-)

Ion 85.90 (85.60 to 86.60): VN057723.D (-835) (-)



#25

2-Butanone

Concen: 0.904 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN057723.D

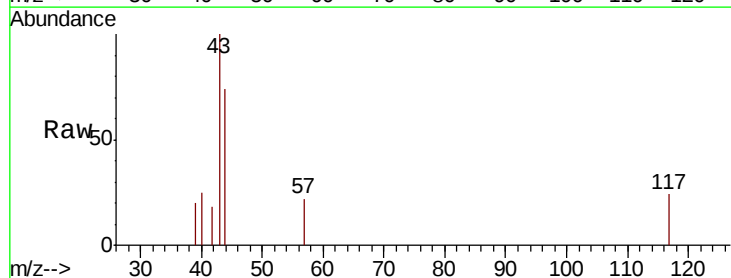
Acq: 6 Sep 2019 19:21

Tgt Ion: 43 Resp: 1868

Ion Ratio Lower Upper

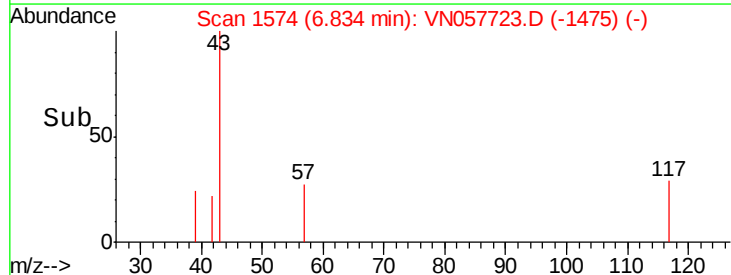
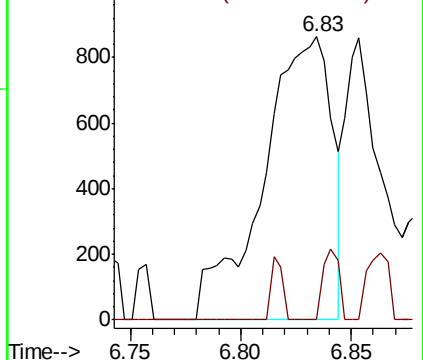
43 100

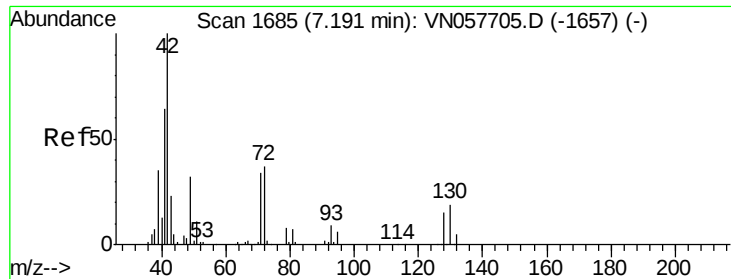
72 0.0 17.0 25.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057723.D (-1475) (-)

Ion 72.00 (71.70 to 72.70): VN057723.D (-1475) (-)





#29

Tetrahydrofuran

Concen: 0.239 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

T12-A3-(3.5)

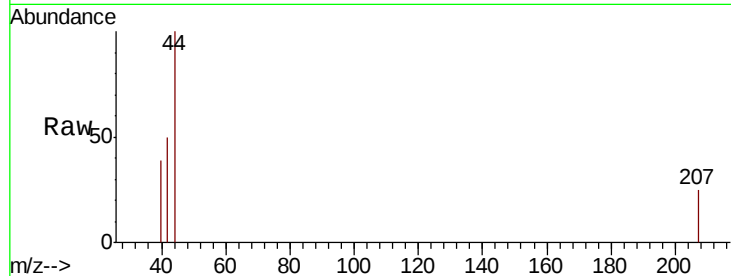
Tgt Ion: 42 Resp: 318

Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

71 0.0 27.0 40.4#

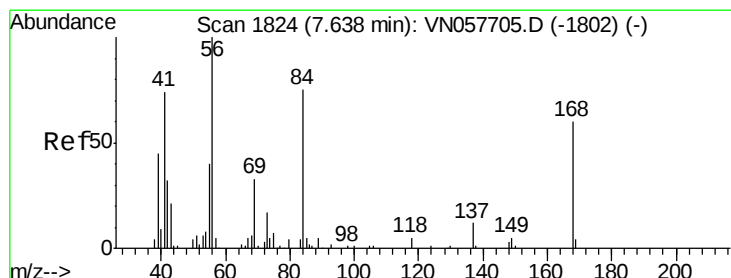
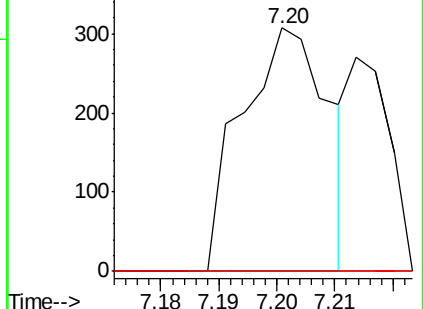
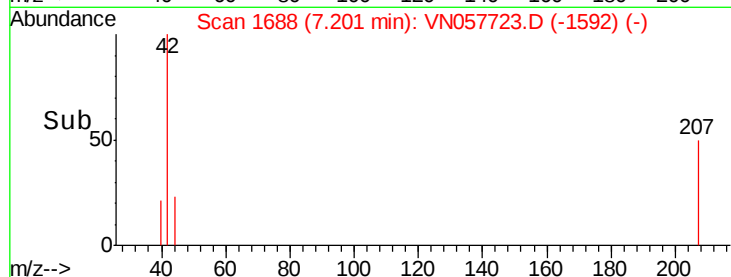


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

Time-->



#31

Cyclohexane

Concen: 1.220 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

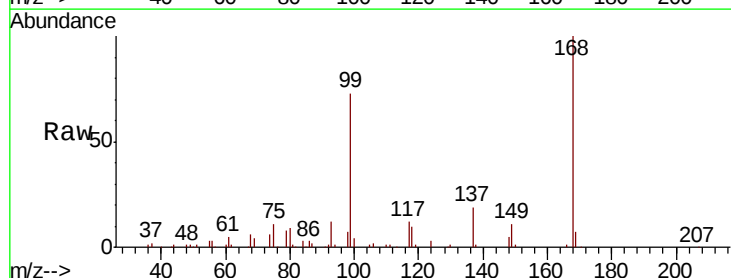
Tgt Ion: 56 Resp: 6423

Ion Ratio Lower Upper

56 100

69 127.5 26.2 39.2#

84 100.1 59.8 89.8#

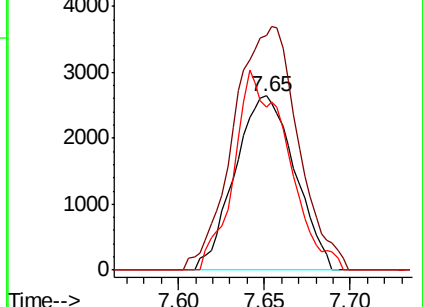
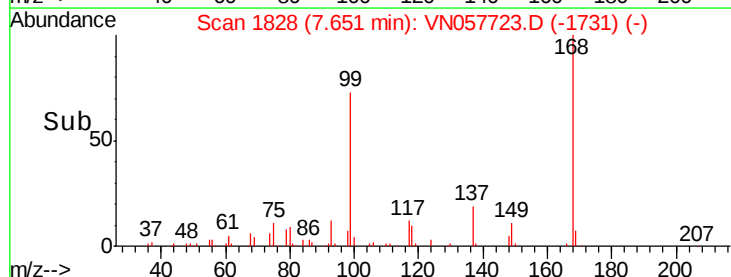


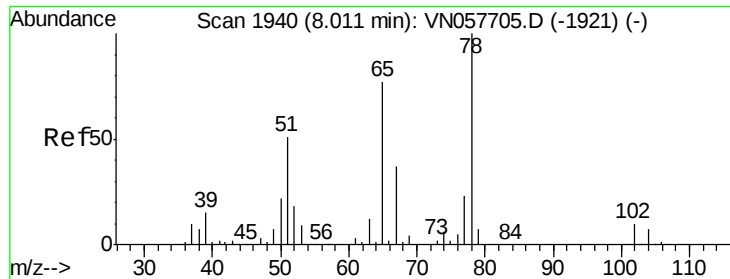
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

Time-->

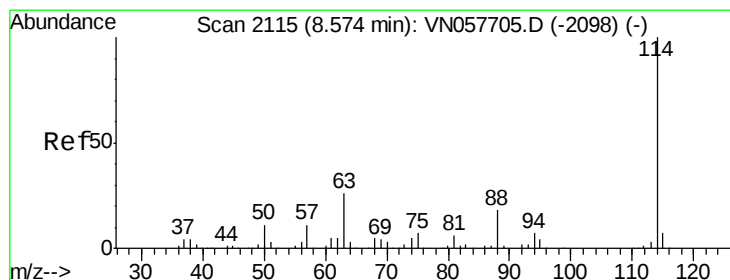
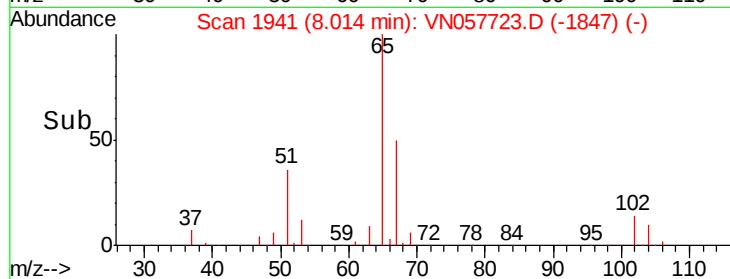
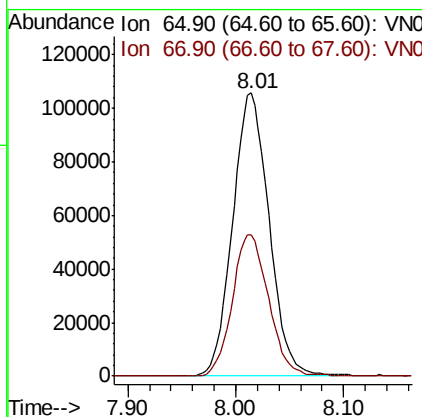
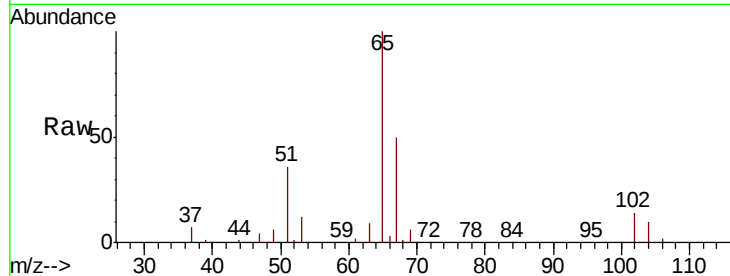




#33
 1,2-Dichloroethane-d4
 Concen: 52.940 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

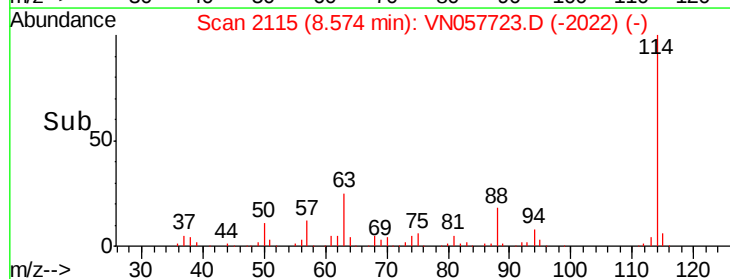
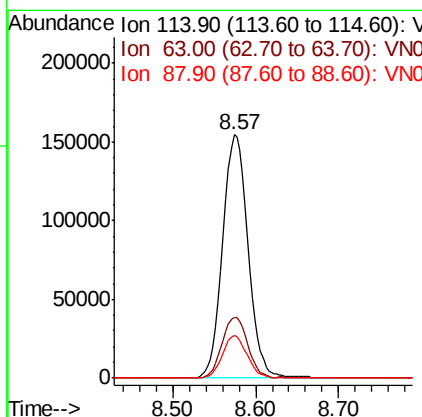
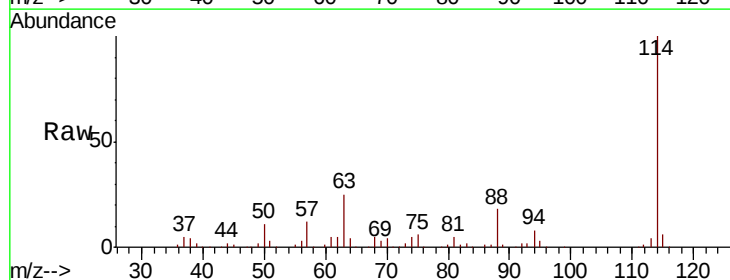
Instrument :
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 T12-A3-(3.5)

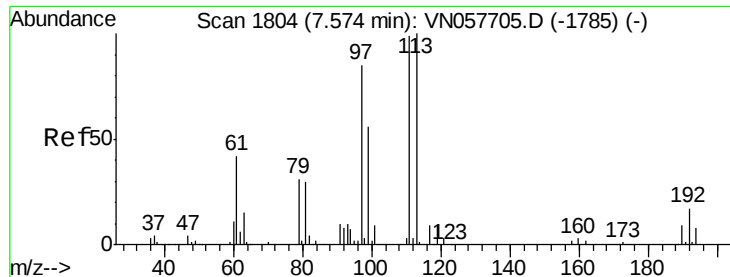
Tgt Ion: 65 Resp: 248226
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Tgt Ion: 114 Resp: 330272
 Ion Ratio Lower Upper
 114 100
 63 25.1 0.0 52.4
 88 17.6 0.0 35.4





#35

Dibromofluoromethane

Concen: 49.070 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

T12-A3-(3.5)

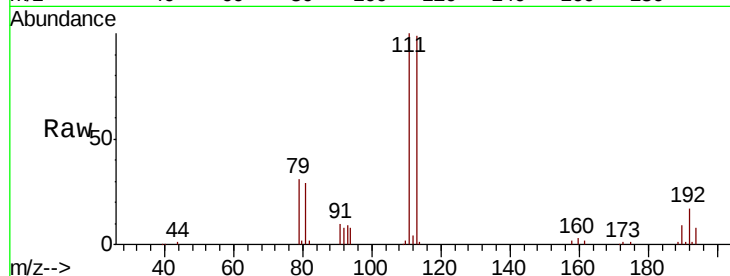
Tgt Ion:113 Resp: 147616

Ion Ratio Lower Upper

113 100

111 103.8 82.7 124.1

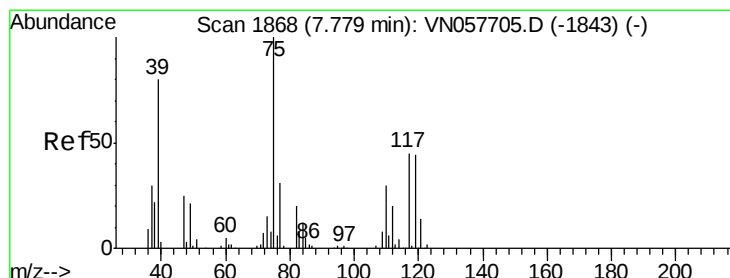
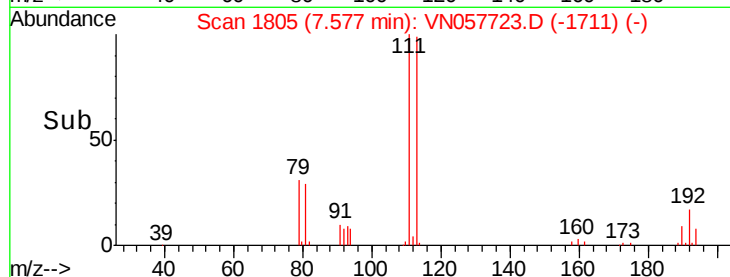
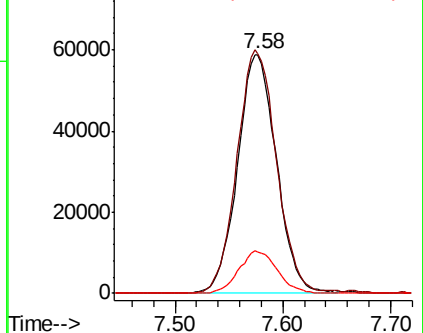
192 17.6 13.8 20.6



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: 4.658 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

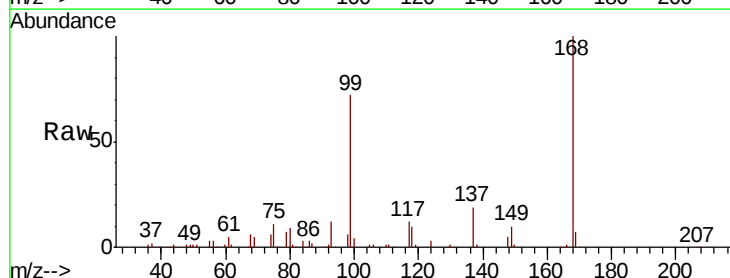
Tgt Ion: 75 Resp: 20466

Ion Ratio Lower Upper

75 100

110 9.2 15.0 45.0#

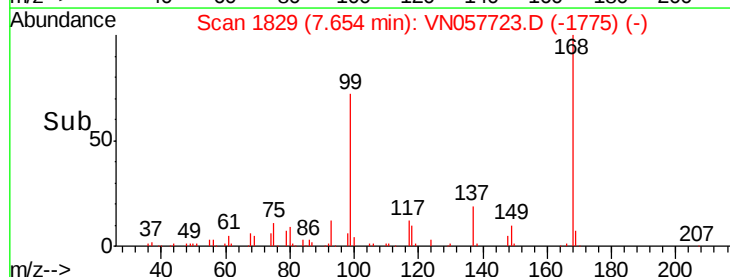
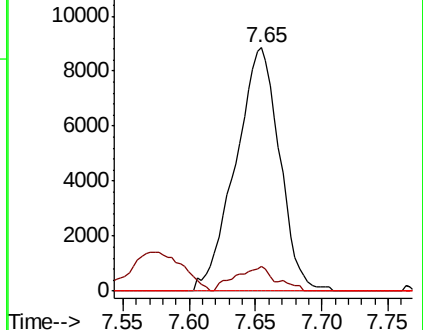
77 0.0 24.6 37.0#

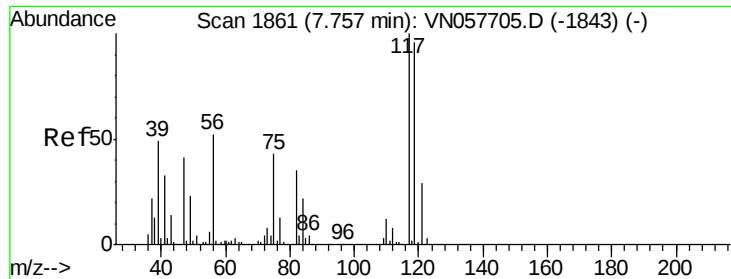


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

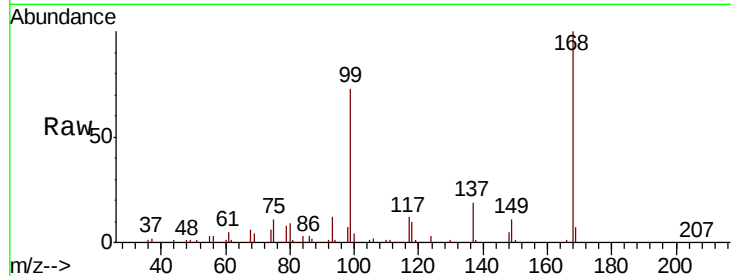




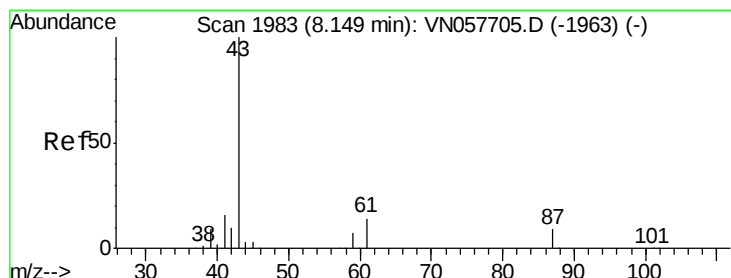
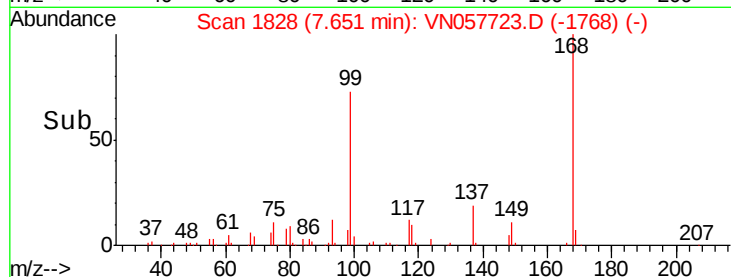
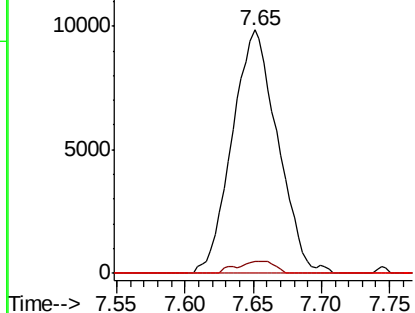
#38
Carbon Tetrachloride
Concen: 5.423 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN057723.D
Acq: 6 Sep 2019 19:21

Instrument :
MSVOA_N
ClientSampleId :
T12-A3-(3.5)

Tgt Ion:117 Resp: 22816
Ion Ratio Lower Upper
117 100
119 4.8 76.1 114.1#
121 0.0 23.4 35.2#

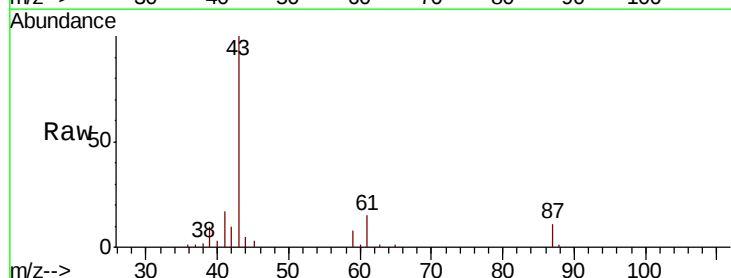


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

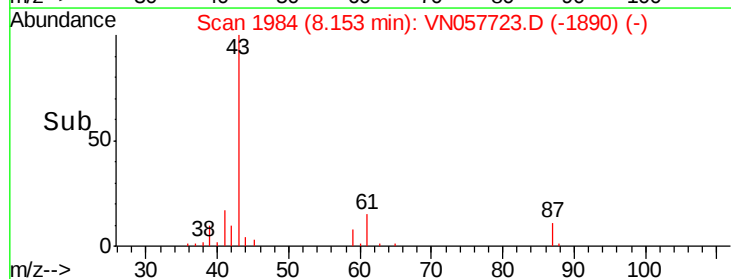
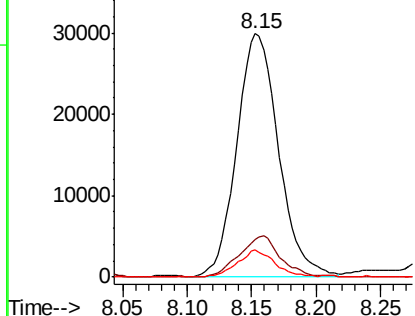


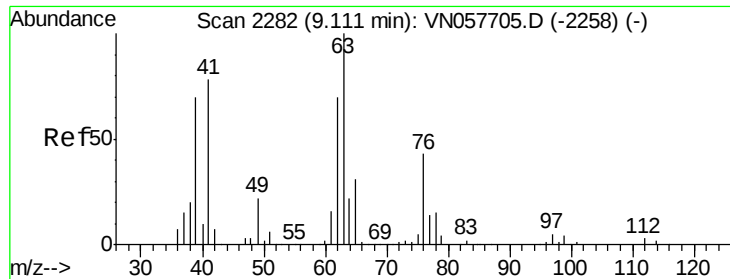
#43
Isopropyl Acetate
Concen: 8.085 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN057723.D
Acq: 6 Sep 2019 19:21

Tgt Ion: 43 Resp: 67690
Ion Ratio Lower Upper
43 100
61 16.4 12.8 19.2
87 10.0 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

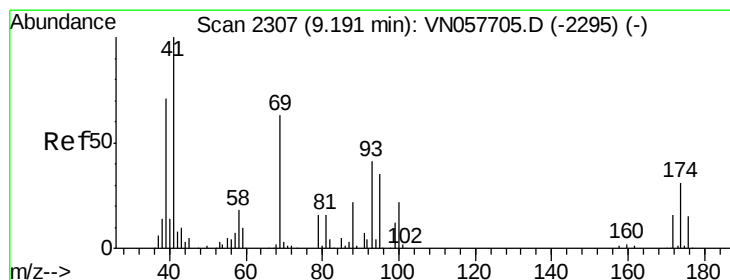
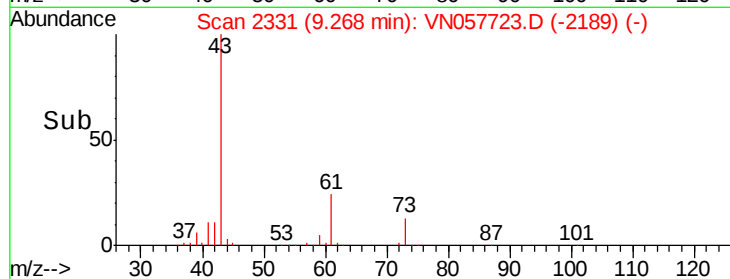
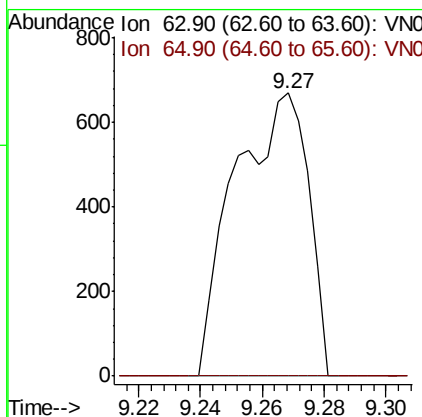
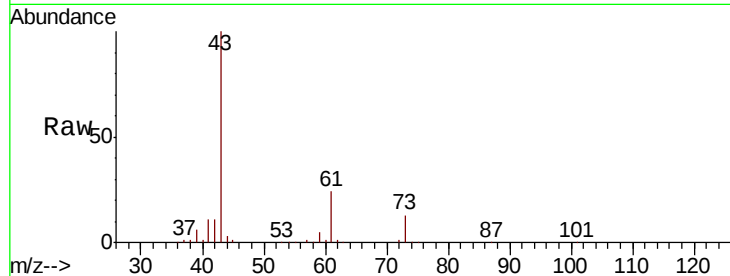




#45
 1,2-Dichloropropane
 Concen: 0.318 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.16 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

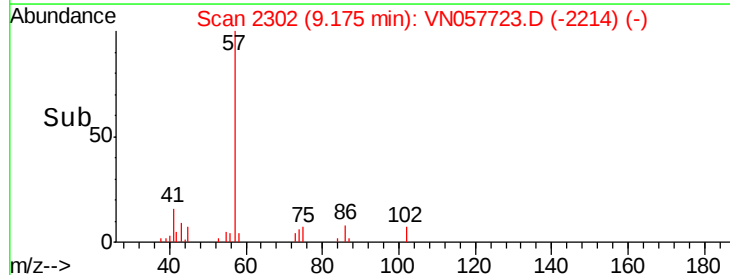
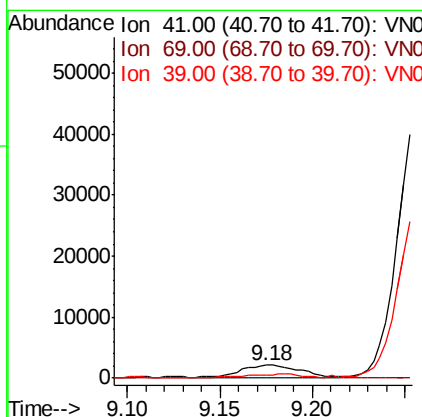
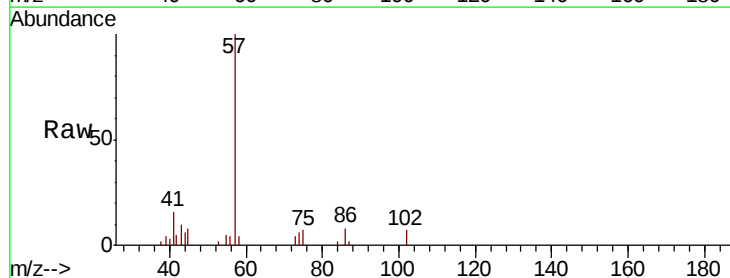
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A3-(3.5)

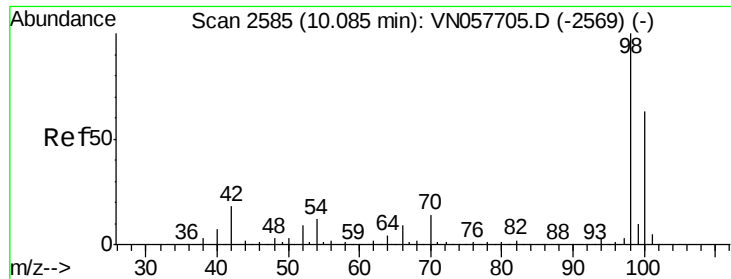
Tgt Ion: 63 Resp: 1106
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.5 36.7#



#48
 Methyl methacrylate
 Concen: 0.968 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Tgt Ion: 41 Resp: 4169
 Ion Ratio Lower Upper
 41 100
 69 0.0 51.2 76.8#
 39 0.0 57.3 85.9#





#50

Toluene-d8

Concen: 51.423 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

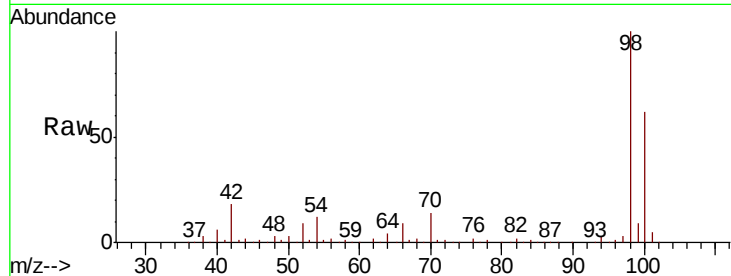
T12-A3-(3.5)

Tgt Ion: 98 Resp: 572248

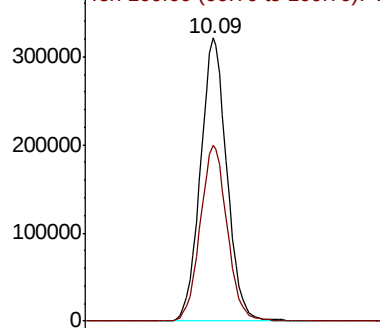
Ion Ratio Lower Upper

98 100

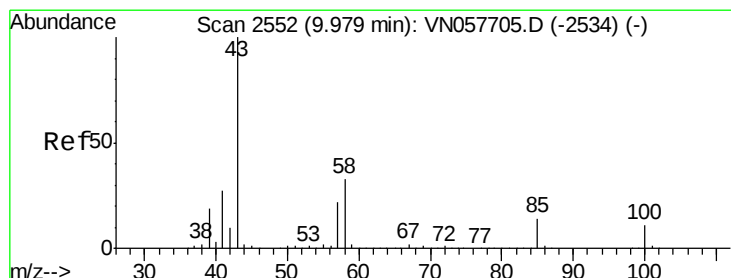
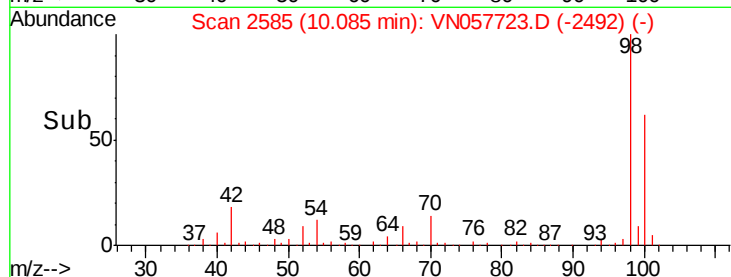
100 63.5 50.7 76.1



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



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.947 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN057723.D

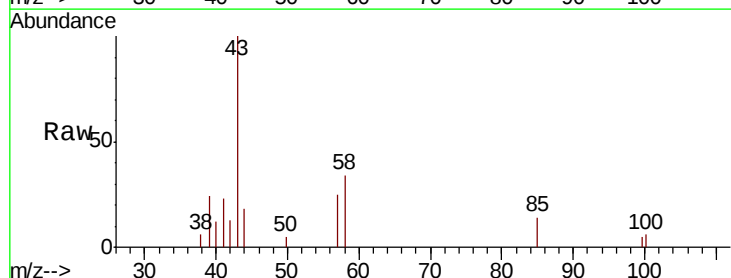
Acq: 6 Sep 2019 19:21

Tgt Ion: 43 Resp: 4404

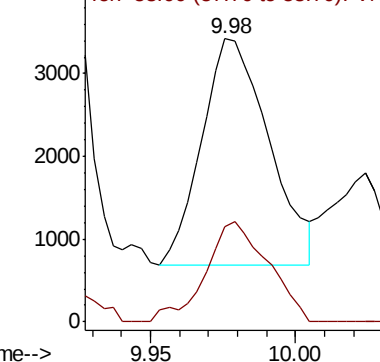
Ion Ratio Lower Upper

43 100

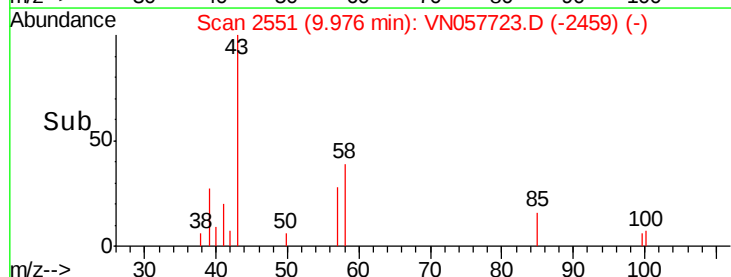
58 41.1 25.8 38.8#

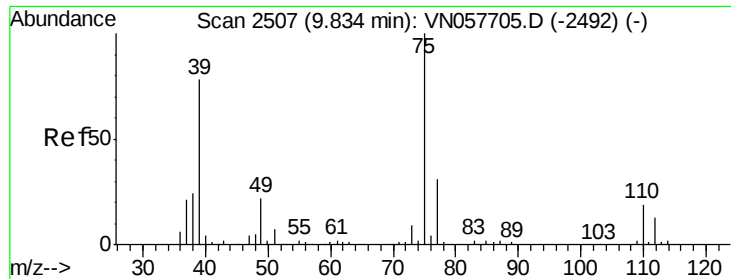


Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)



Time-->



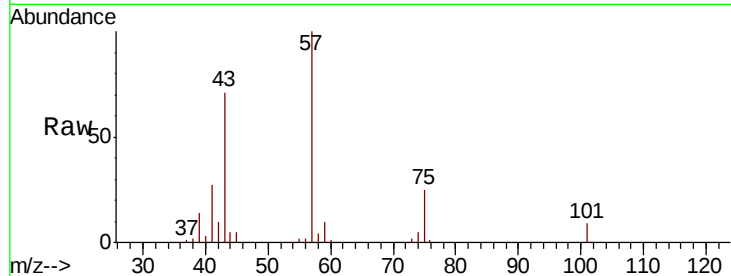


#54

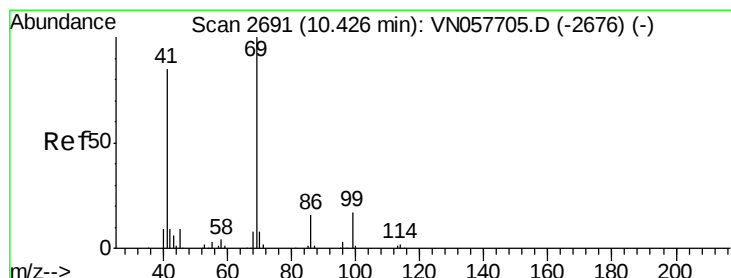
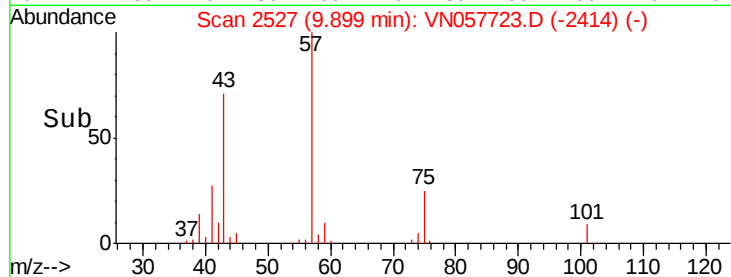
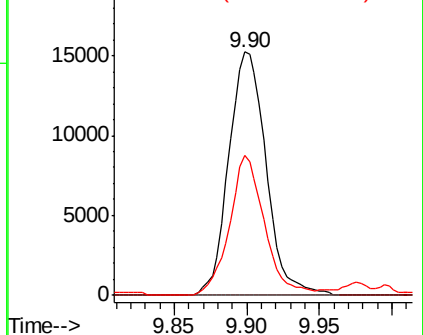
cis-1,3-Dichloropropene
 Concen: 5.304 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A3-(3.5)

Tgt Ion: 75 Resp: 27239
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 57.3 62.4 93.6#



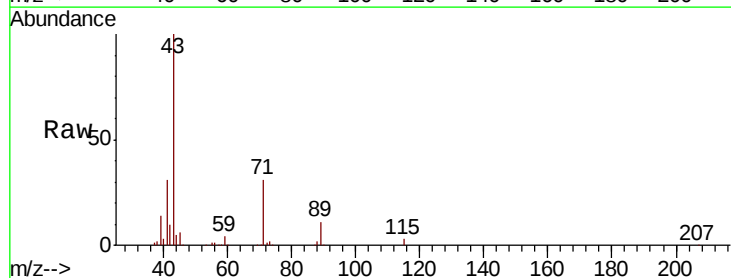
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



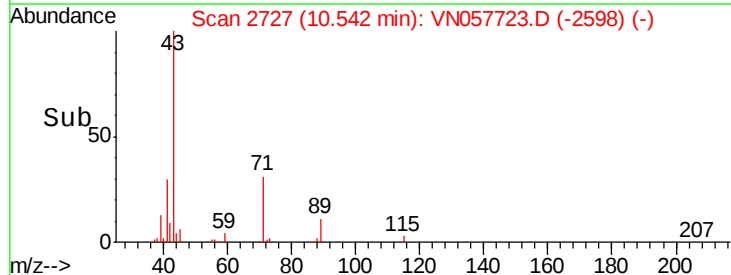
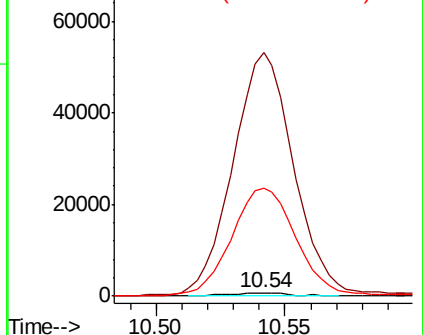
#56

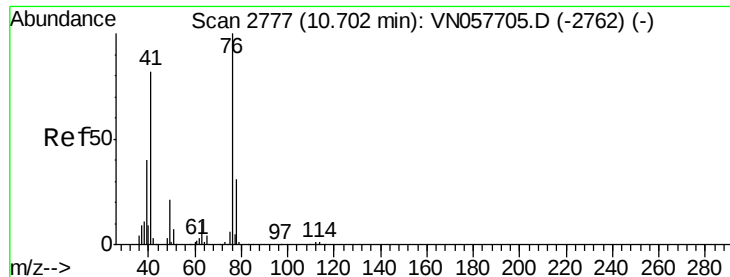
Ethyl methacrylate
 Concen: 0.239 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Tgt Ion: 69 Resp: 1154
 Ion Ratio Lower Upper
 69 100
 41 7654.8 69.0 103.4#
 39 3562.7 49.2 73.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0

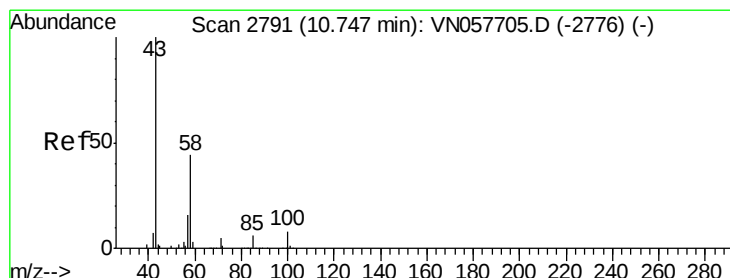
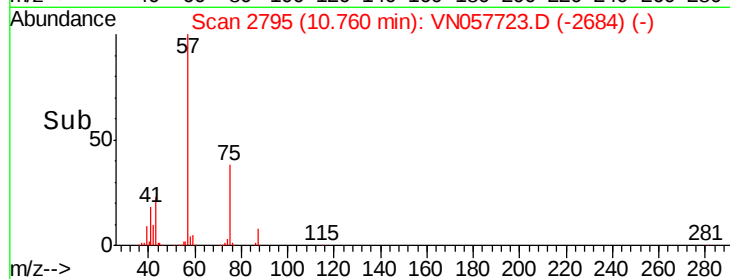
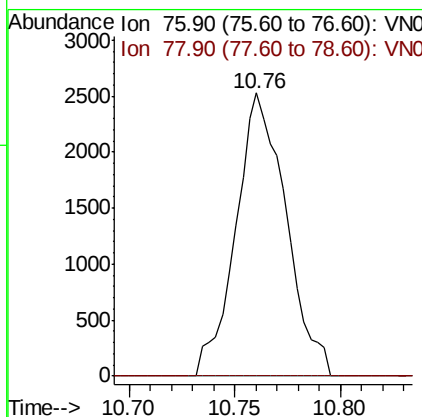
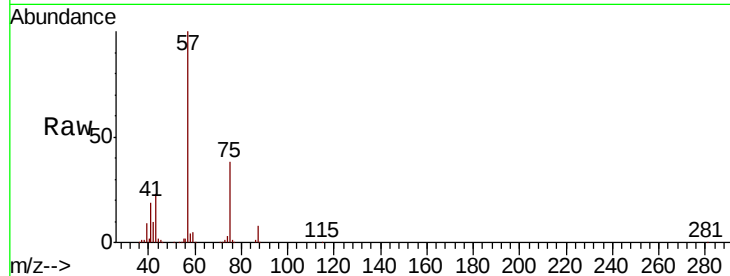




#57
 1,3-Dichloropropane
 Concen: 0.768 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

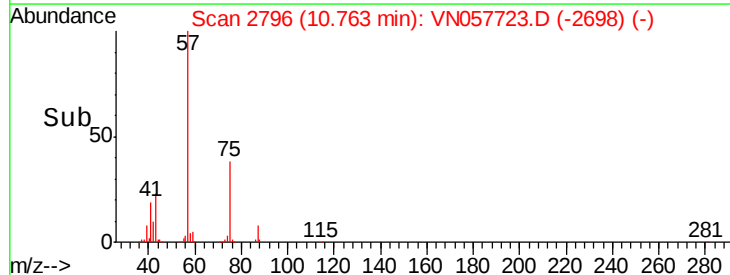
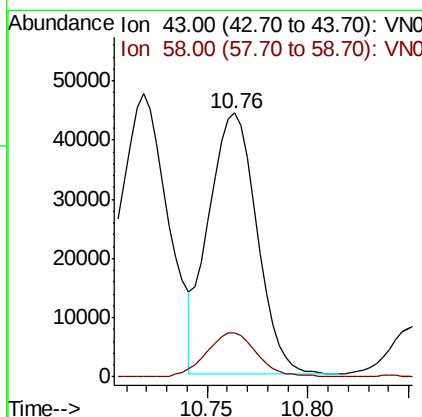
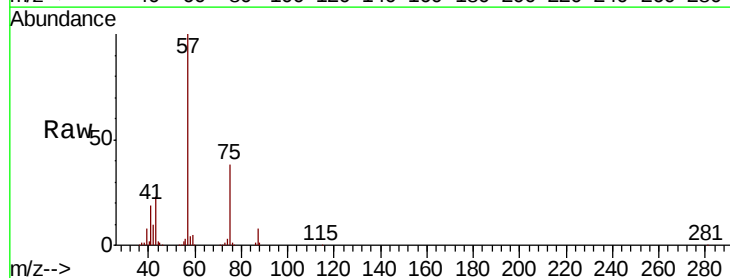
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A3-(3.5)

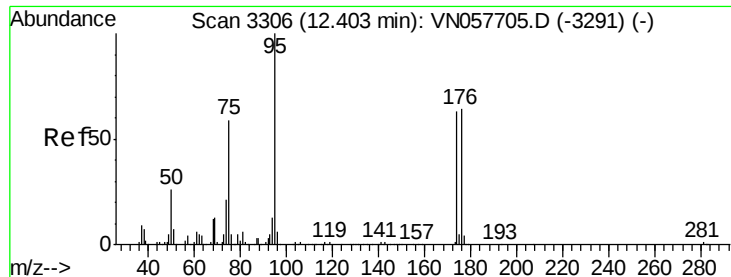
Tgt Ion: 76 Resp: 4180
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 22.382 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.02 min
 Lab File: VN057723.D
 Acq: 6 Sep 2019 19:21

Tgt Ion: 43 Resp: 73388
 Ion Ratio Lower Upper
 43 100
 58 17.6 22.1 66.5#





#62

4-Bromofluorobenzene

Concen: 46.485 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

T12-A3-(3.5)

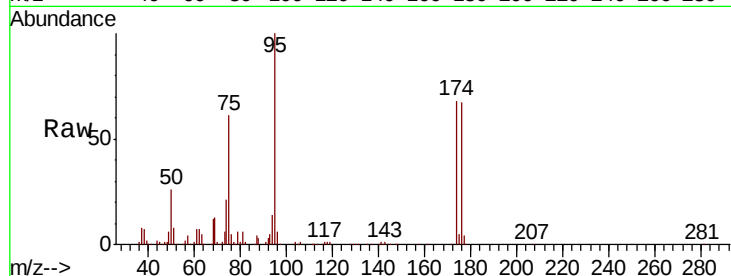
Tgt Ion: 95 Resp: 214864

Ion Ratio Lower Upper

95 100

174 67.8 0.0 128.0

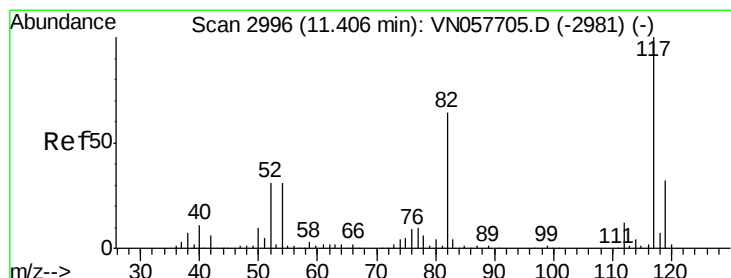
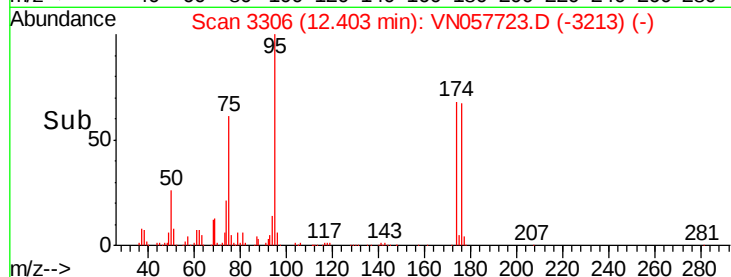
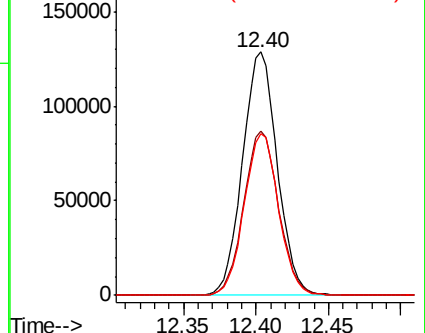
176 65.7 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): VN057723.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN057723.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN057723.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

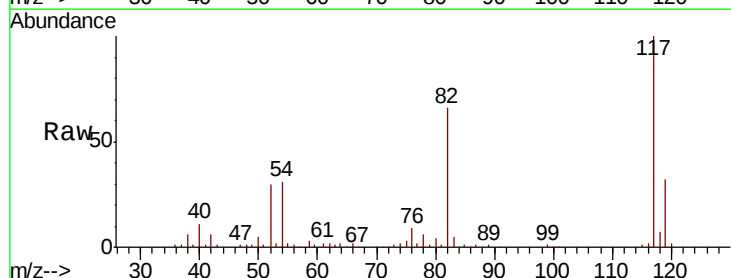
Tgt Ion: 117 Resp: 298083

Ion Ratio Lower Upper

117 100

82 65.8 51.4 77.0

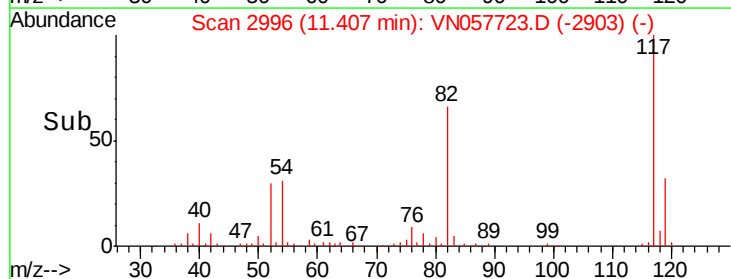
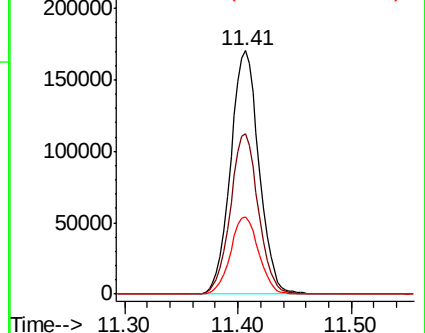
119 31.7 25.4 38.2

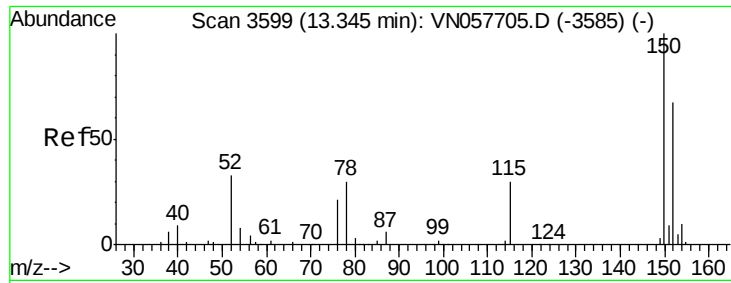


Abundance Ion 116.90 (116.60 to 117.60): VN057723.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057723.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057723.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

T12-A3-(3.5)

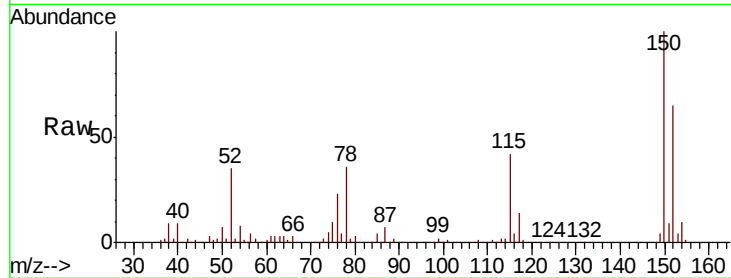
Tgt Ion:152 Resp: 152314

Ion Ratio Lower Upper

152 100

115 64.5 33.8 101.3

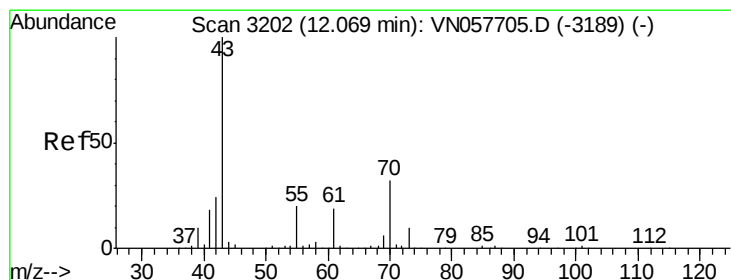
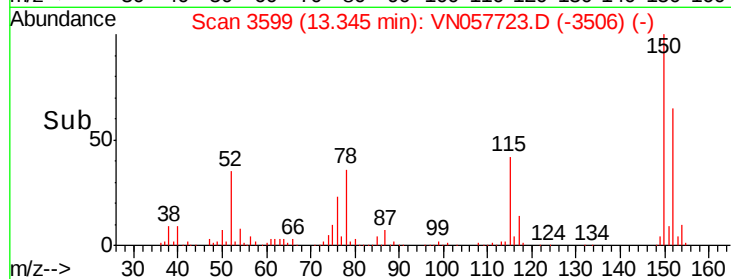
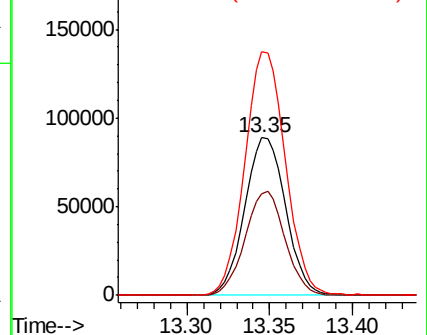
150 154.1 0.0 345.4



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: 0.400 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Tgt Ion: 43 Resp: 2694

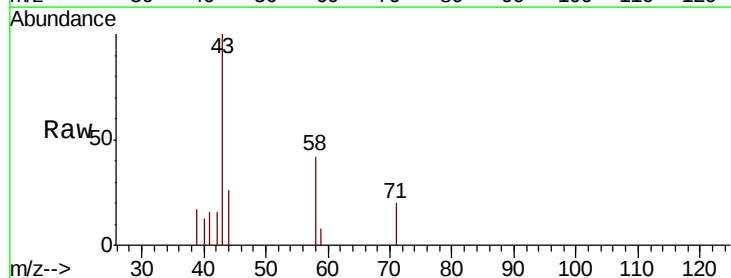
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 6.4 16.3 24.5#

61 0.0 15.0 22.4#

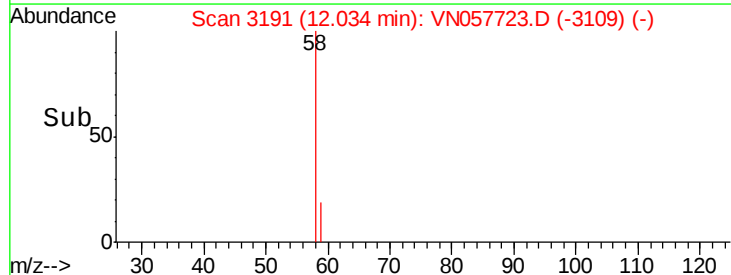
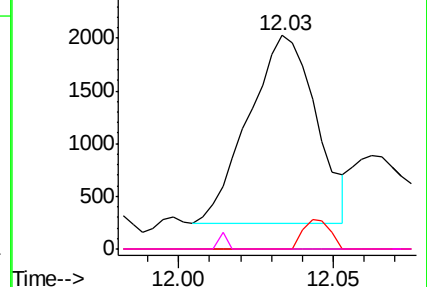


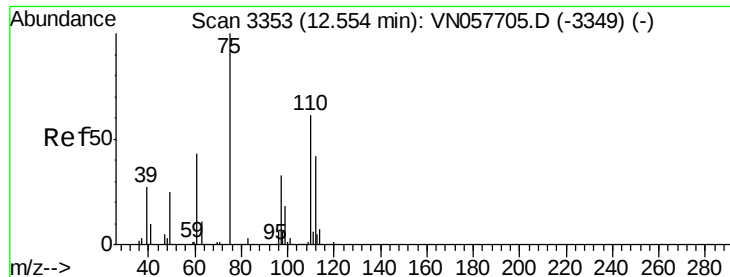
Abundance Ion 43.00 (42.70 to 43.70): V

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: 36.449 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

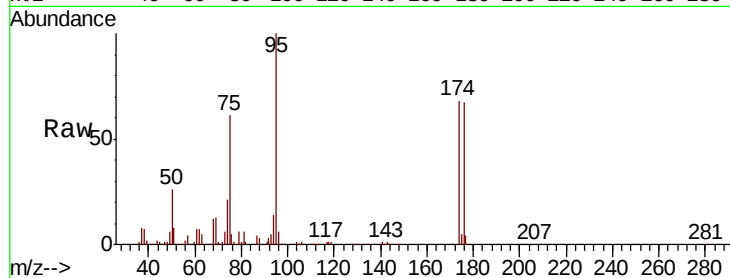
T12-A3-(3.5)

Tgt Ion: 75 Resp: 127486

Ion Ratio Lower Upper

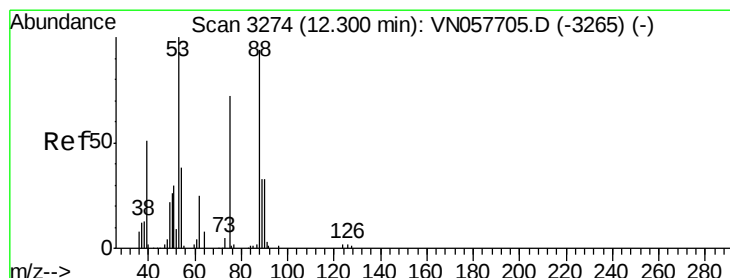
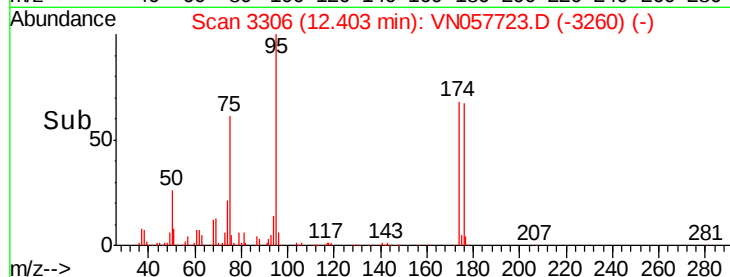
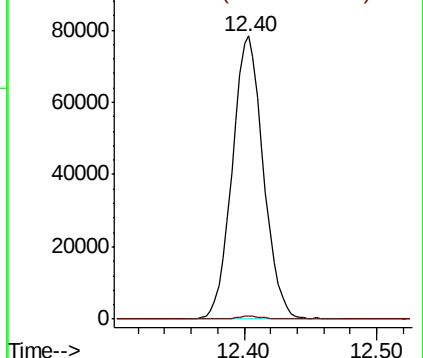
75 100

77 0.9 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: 113.355 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057723.D

Acq: 6 Sep 2019 19:21

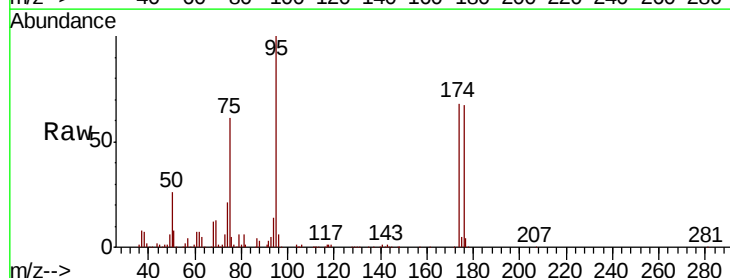
Tgt Ion: 75 Resp: 127486

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

