

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057729.D
 Acq On : 6 Sep 2019 21:33
 Operator : JC/SP
 Sample : K4580-28
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B1-(3.5)

Quant Time: Sep 06 23:28:21 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	195313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	325954	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	301492	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	151452	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	251386	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
35) Dibromofluoromethane	7.57	113	150173	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
50) Toluene-d8	10.08	98	581688	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
62) 4-Bromofluorobenzene	12.40	95	211747	46.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.84%	

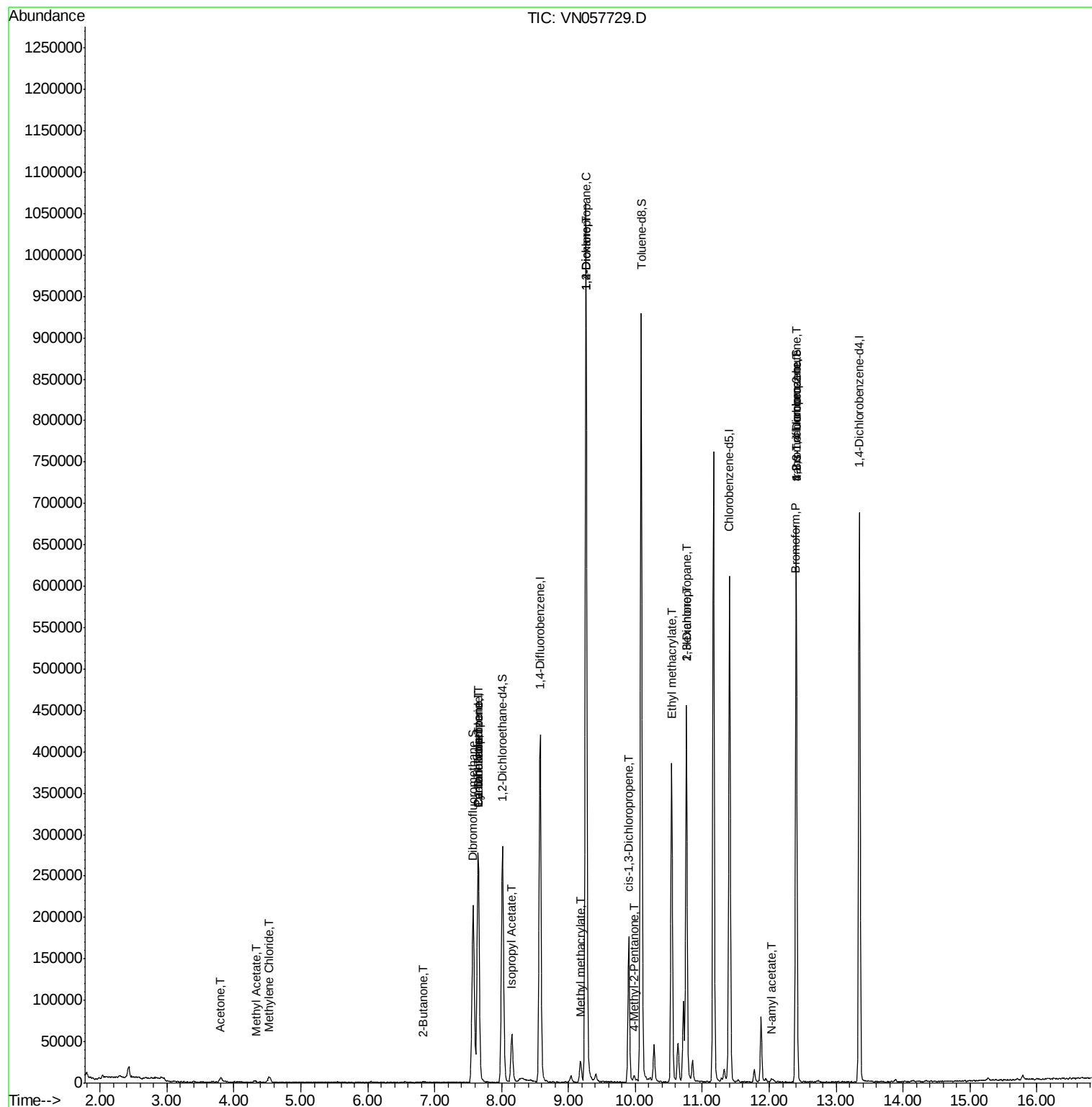
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1491	Below Cal	#	75
16) Acetone	3.80	43	8614	5.891	ug/l #	81
18) Methyl Acetate	4.33	43	3938	0.990	ug/l #	72
20) Methylene Chloride	4.54	84	4211	1.332	ug/l #	80
25) 2-Butanone	6.82	43	612	0.292	ug/l #	44
31) Cyclohexane	7.65	56	6293	1.180	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	19230	4.435	ug/l #	54
38) Carbon Tetrachloride	7.65	117	21969	5.291	ug/l #	17
43) Isopropyl Acetate	8.16	43	73251	8.865	ug/l	98
45) 1,2-Dichloropropane	9.27	63	1082	0.315	ug/l #	44
48) Methyl methacrylate	9.17	41	5093	1.198	ug/l #	16
49) 1,4-Dioxane	9.26	88	68	1.375	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5640	1.229	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	27056	5.338	ug/l #	62
56) Ethyl methacrylate	10.54	69	1350	0.283	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3913	0.728	ug/l #	43
59) 2-Hexanone	10.76	43	78123	24.142	ug/l #	57
71) Bromoform	12.39	173	185	3.327	ug/l #	28
74) N-amyl acetate	12.04	43	2114	0.316	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	128701	37.005	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128701	115.087	ug/l #	1

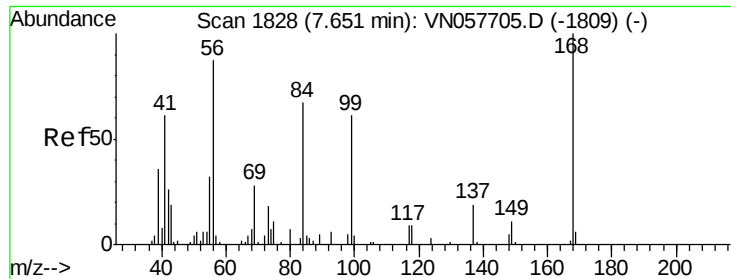
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampleId :

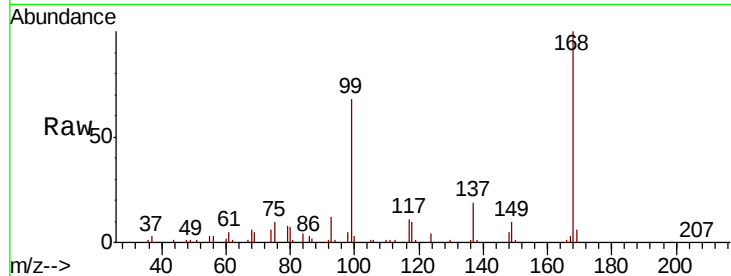
T12-B1-(3.5)

Tgt Ion:168 Resp: 195313

Ion Ratio Lower Upper

168 100

99 68.4 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

80000

60000

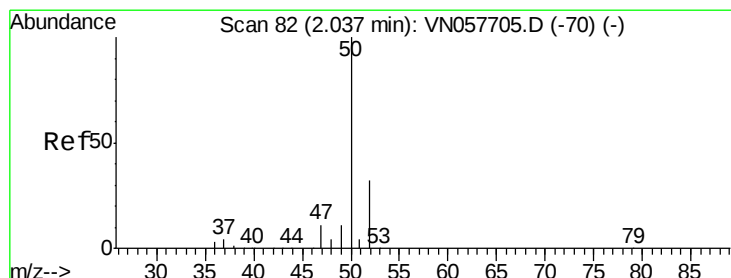
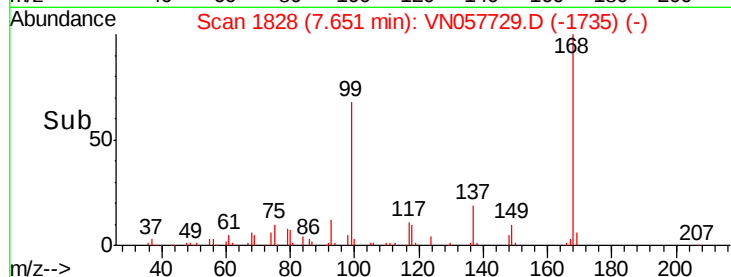
40000

20000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN057729.D

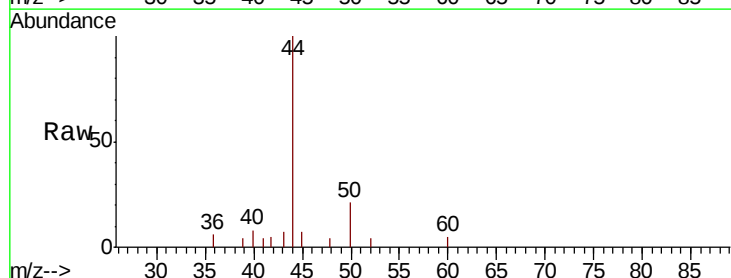
Acq: 6 Sep 2019 21:33

Tgt Ion: 50 Resp: 1491

Ion Ratio Lower Upper

50 100

52 18.3 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1200

1000

800

600

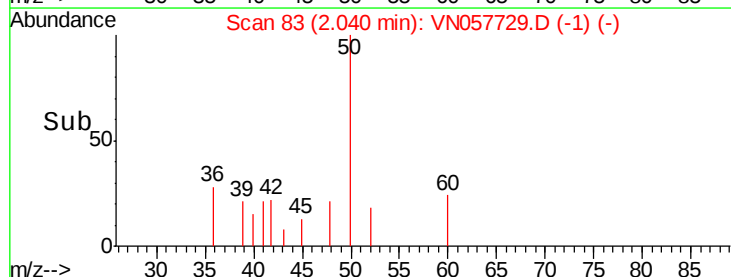
400

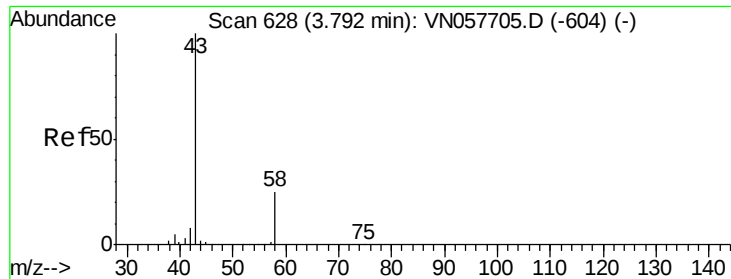
200

0

2.00 2.02 2.04 2.06

Time-->





#16

Acetone

Concen: 5.891 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampleId :

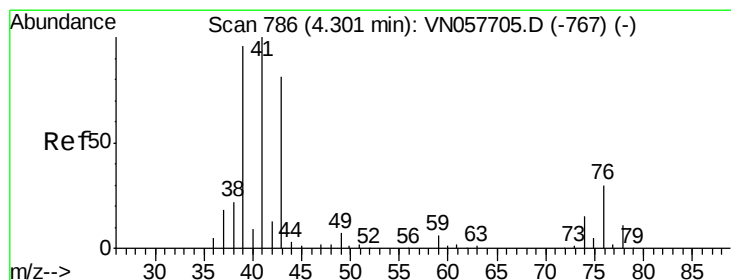
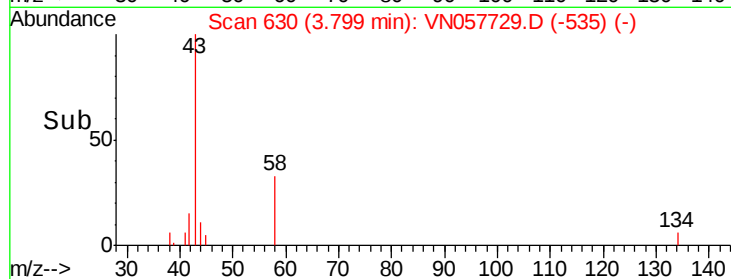
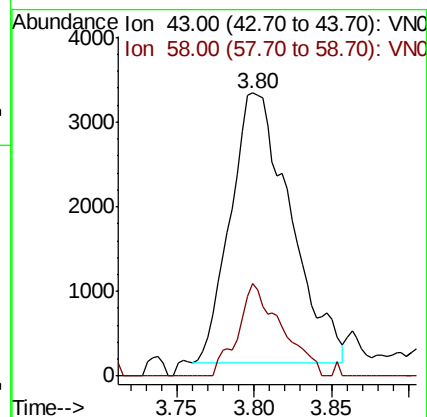
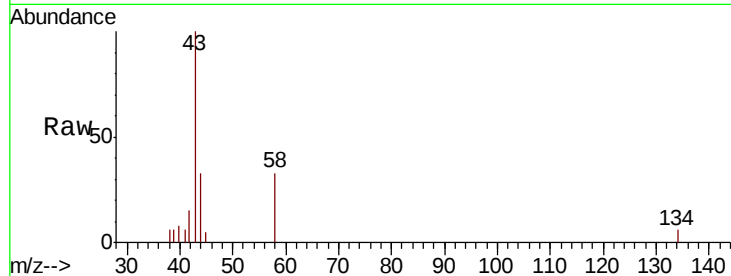
T12-B1-(3.5)

Tgt Ion: 43 Resp: 8614

Ion Ratio Lower Upper

43 100

58 34.5 19.8 29.8#



#18

Methyl Acetate

Concen: 0.990 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.03 min

Lab File: VN057729.D

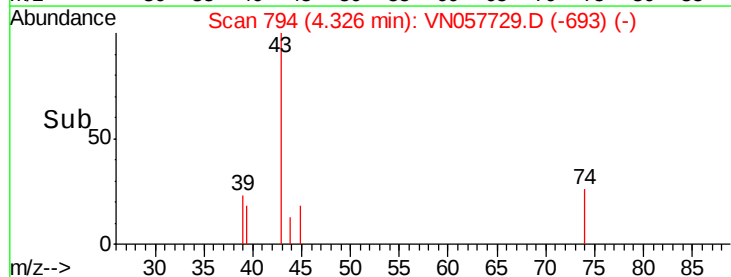
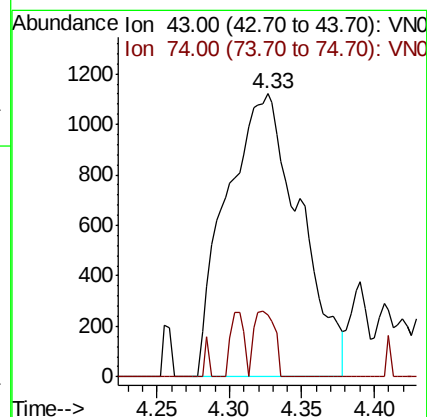
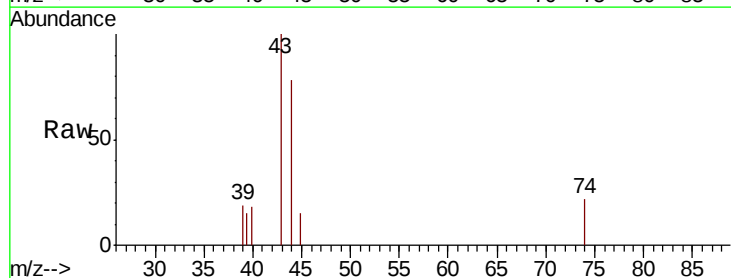
Acq: 6 Sep 2019 21:33

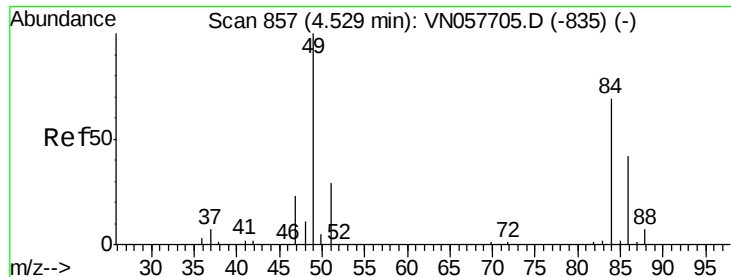
Tgt Ion: 43 Resp: 3938

Ion Ratio Lower Upper

43 100

74 6.6 15.3 22.9#

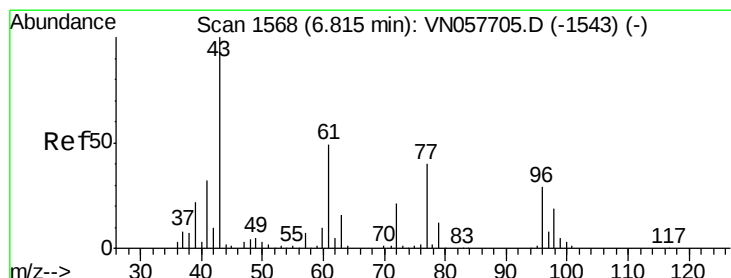
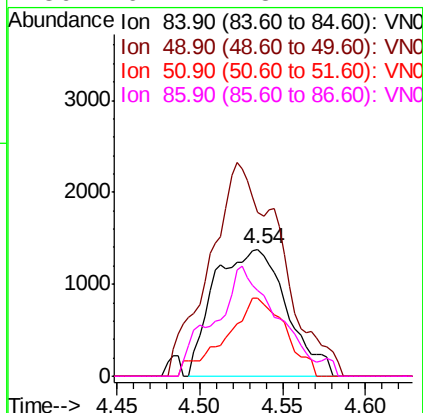
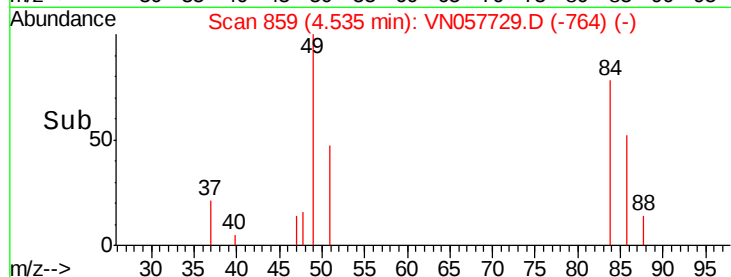
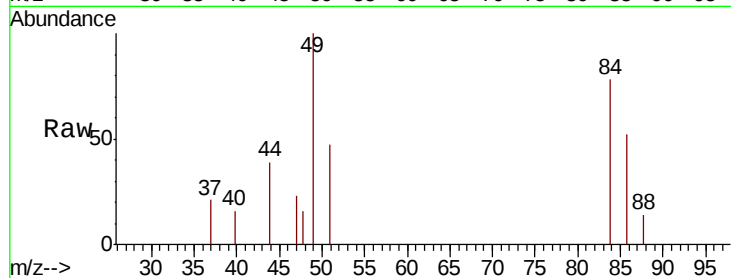




#20
Methylene Chloride
Concen: 1.332 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

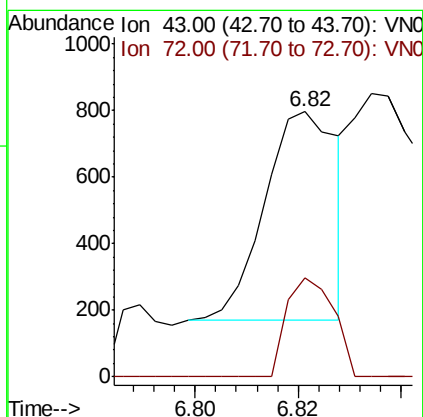
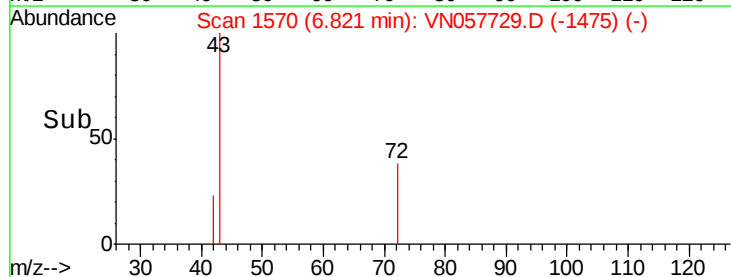
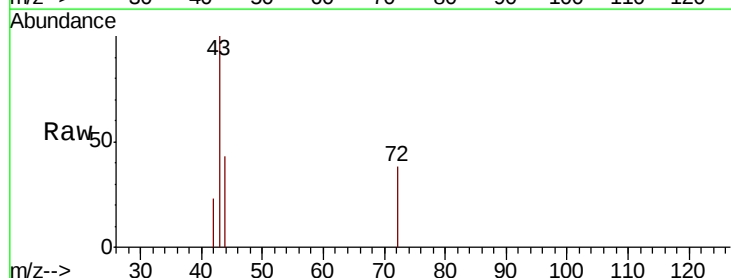
Instrument :
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T12-B1-(3.5)

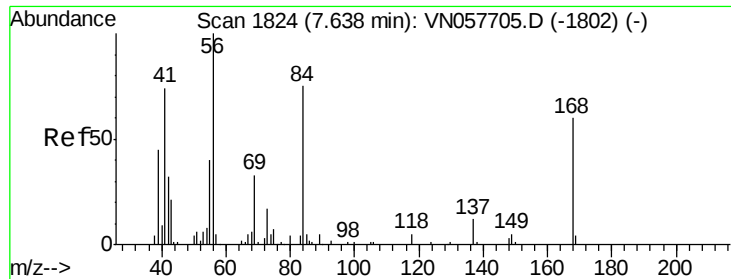
Tgt Ion: 84 Resp: 4211
Ion Ratio Lower Upper
84 100
49 117.7 115.0 172.6
51 60.9 33.8 50.8#
86 67.2 48.2 72.2



#25
2-Butanone
Concen: 0.292 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

Tgt Ion: 43 Resp: 612
Ion Ratio Lower Upper
43 100
72 47.8 17.0 25.6#

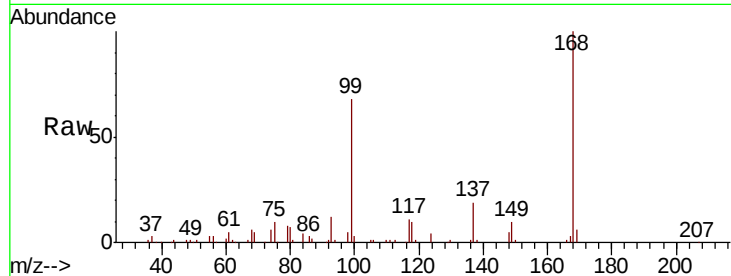




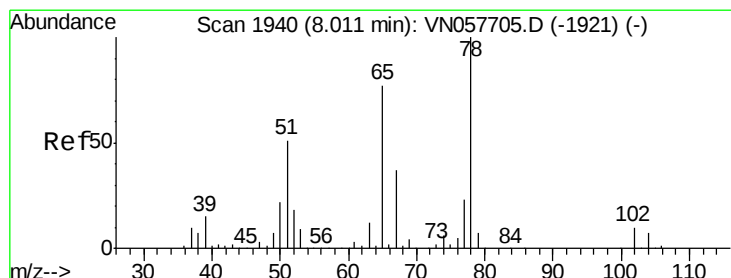
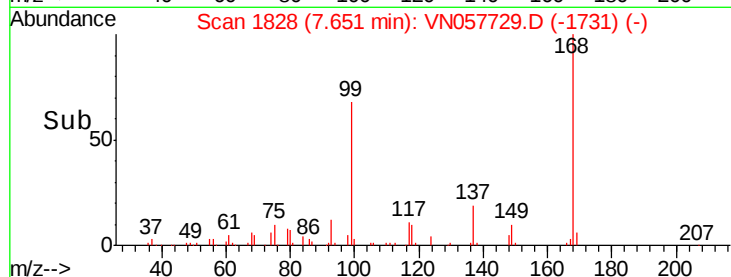
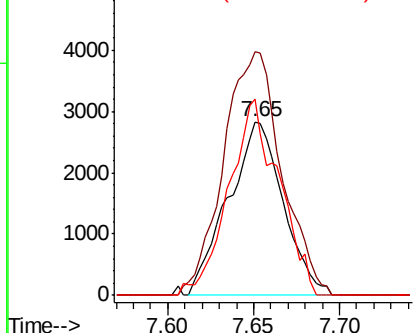
#31
Cyclohexane
Concen: 1.180 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

Instrument :
MSVOA_N
ClientSampled :
T12-B1-(3.5)

Tgt Ion: 56 Resp: 6293
Ion Ratio Lower Upper
56 100
69 140.4 26.2 39.2#
84 113.1 59.8 89.8#

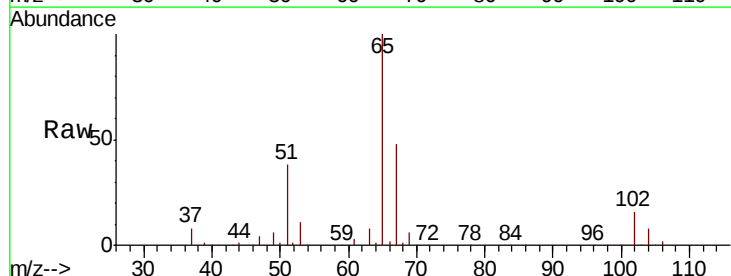


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

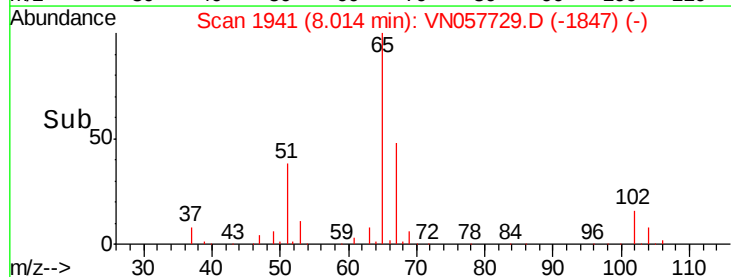
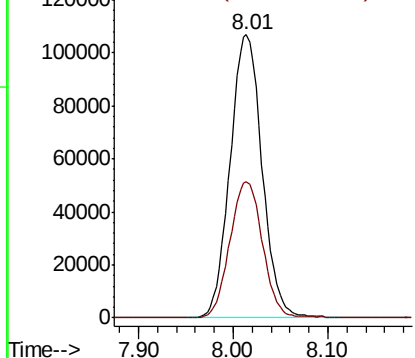


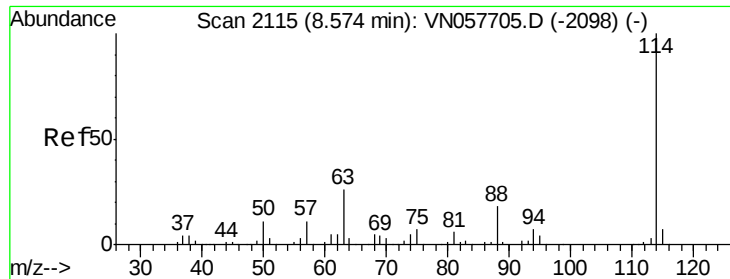
#33
1,2-Dichloroethane-d4
Concen: 52.908 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

Tgt Ion: 65 Resp: 251386
Ion Ratio Lower Upper
65 100
67 49.0 0.0 98.2



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

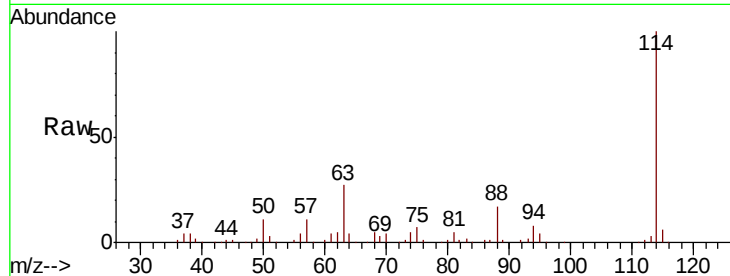




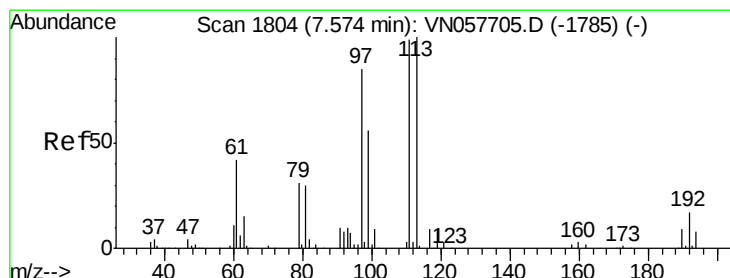
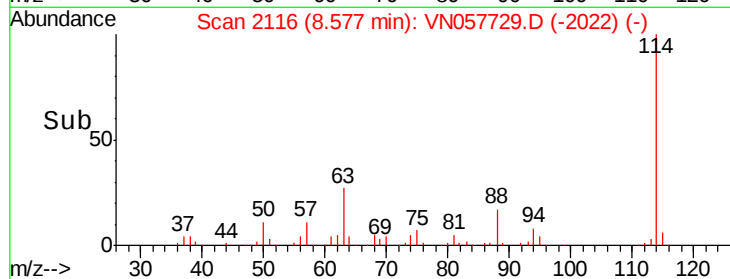
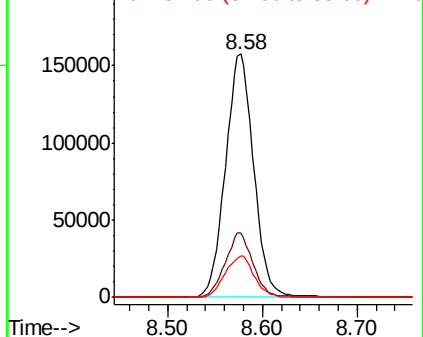
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

Instrument :
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 T12-B1-(3.5)

Tgt Ion:114 Resp: 325954
 Ion Ratio Lower Upper
 114 100
 63 26.6 0.0 52.4
 88 17.0 0.0 35.4

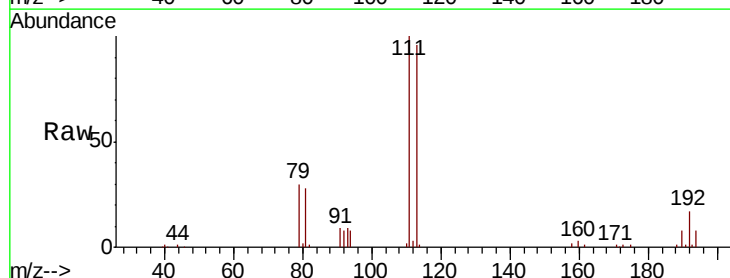


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

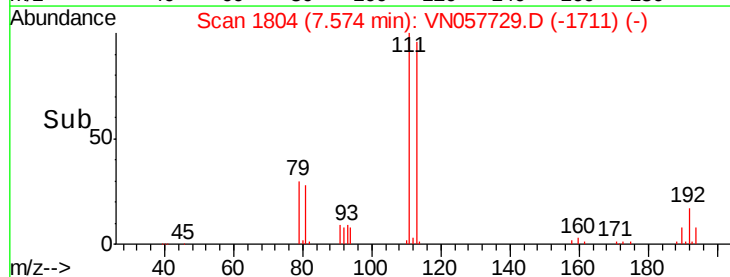
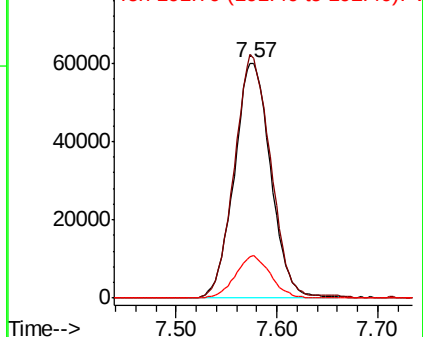


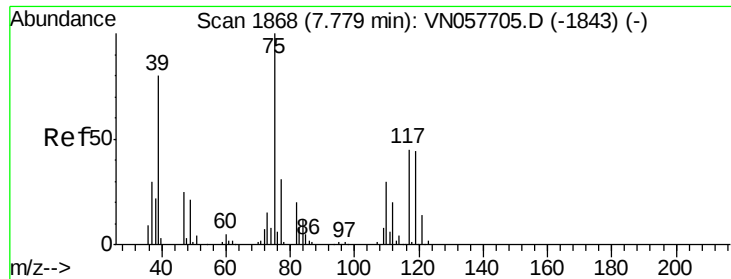
#35
 Dibromofluoromethane
 Concen: 50.581 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

Tgt Ion:113 Resp: 150173
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.7 124.1
 192 17.2 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

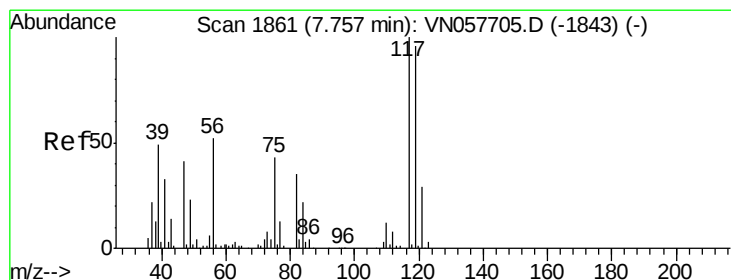
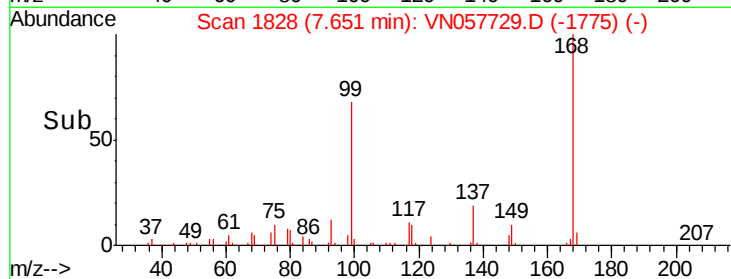
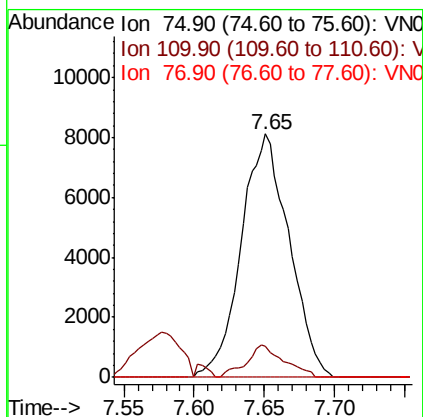
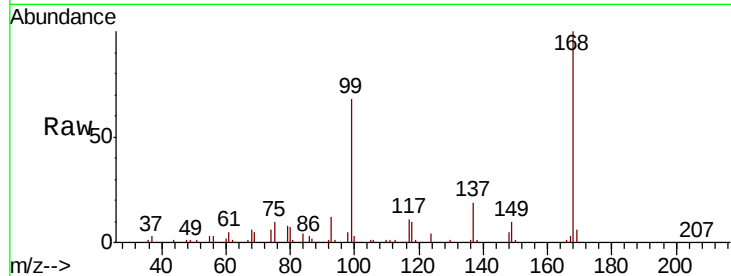




#36
 1,1-Dichloropropene
 Concen: 4.435 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

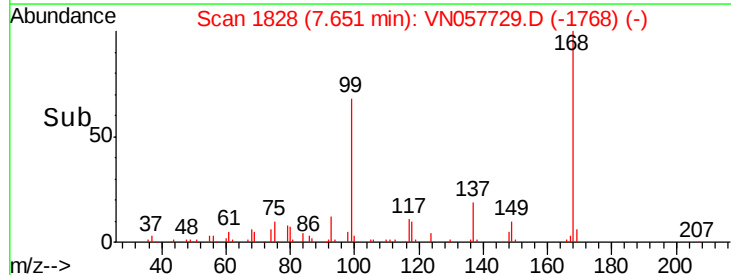
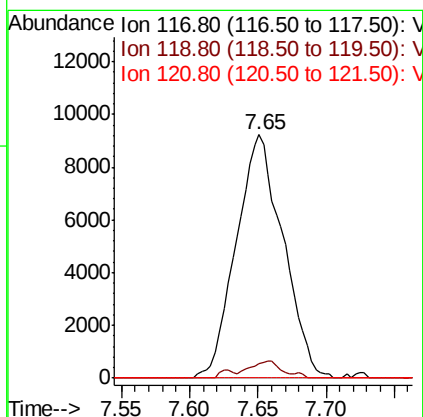
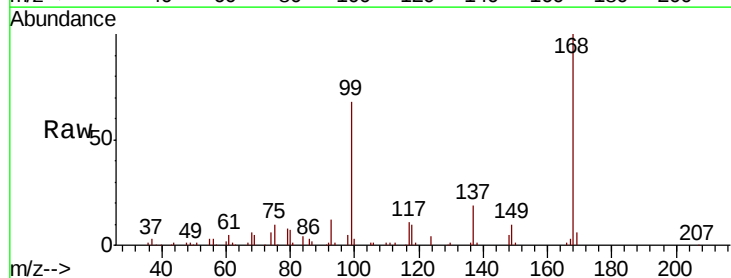
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B1-(3.5)

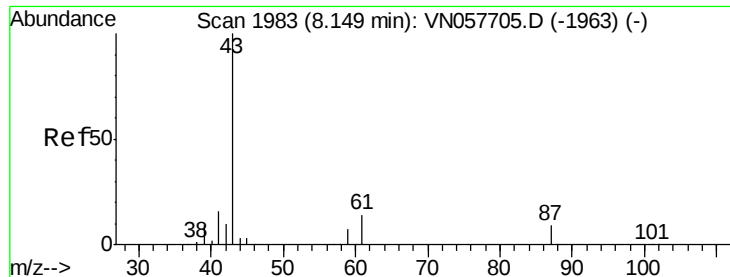
Tgt Ion: 75 Resp: 19230
 Ion Ratio Lower Upper
 75 100
 110 10.5 15.0 45.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.291 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

Tgt Ion: 117 Resp: 21969
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.1 114.1#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 8.865 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampleId :

T12-B1-(3.5)

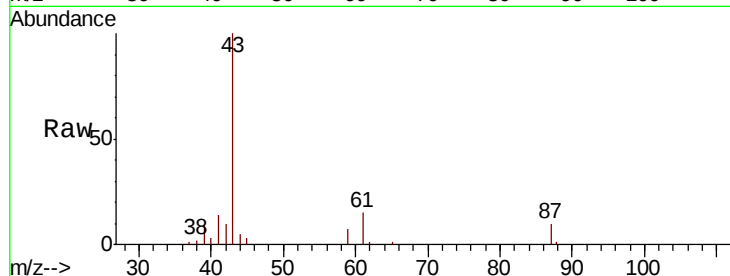
Tgt Ion: 43 Resp: 73251

Ion Ratio Lower Upper

43 100

61 15.3 12.8 19.2

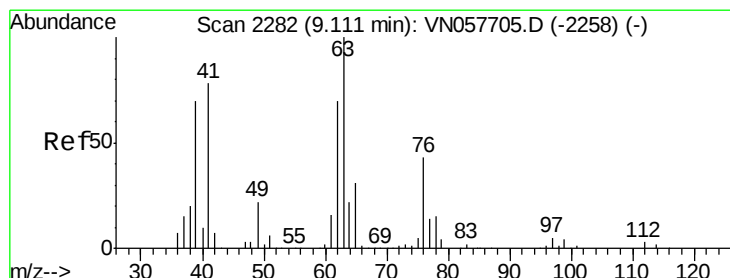
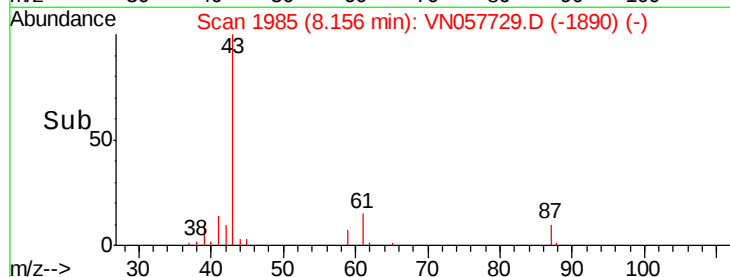
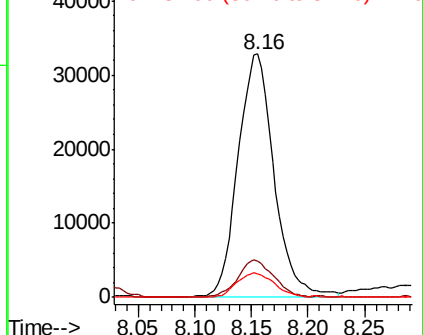
87 10.5 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.315 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.16 min

Lab File: VN057729.D

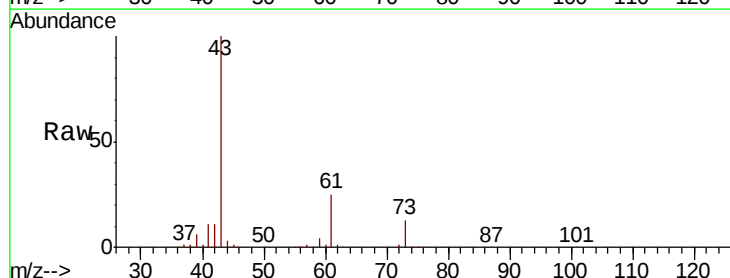
Acq: 6 Sep 2019 21:33

Tgt Ion: 63 Resp: 1082

Ion Ratio Lower Upper

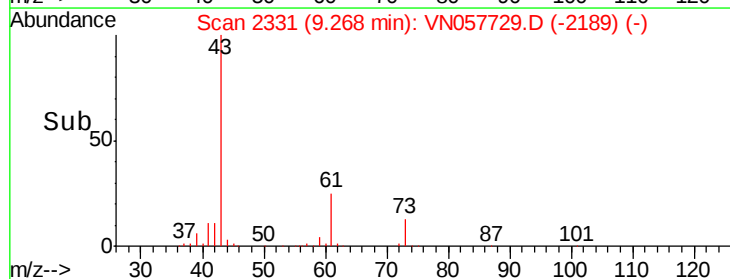
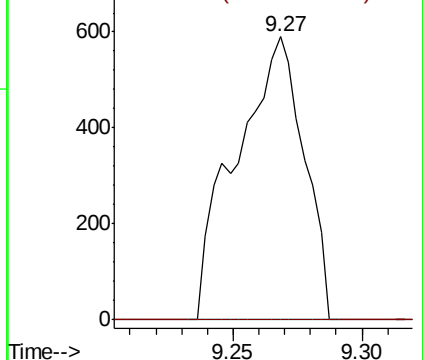
63 100

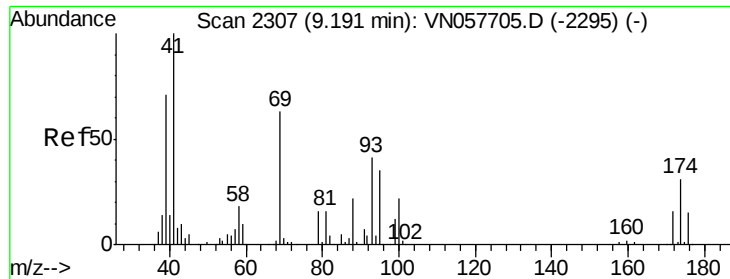
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

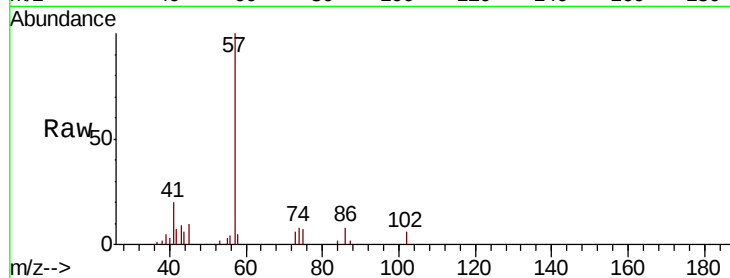




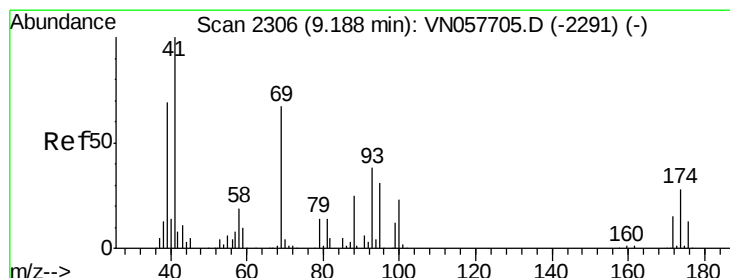
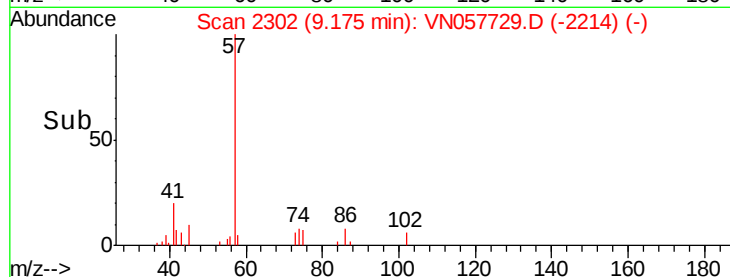
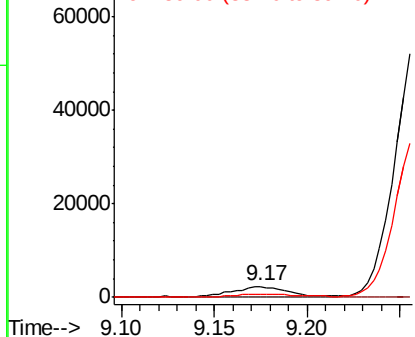
#48
Methyl methacrylate
Concen: 1.198 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

Instrument :
MSVOA_N
ClientSampleId :
T12-B1-(3.5)

Tgt Ion: 41 Resp: 5093
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#

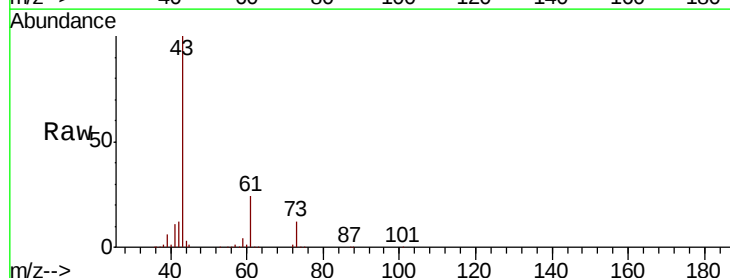


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

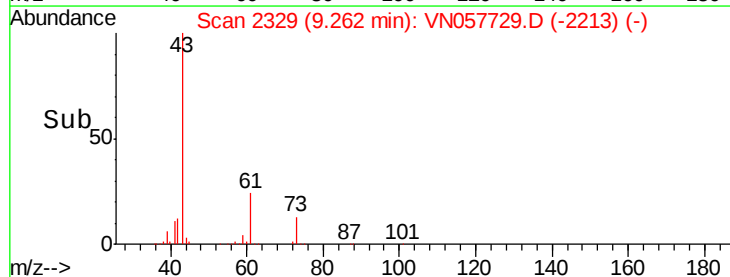
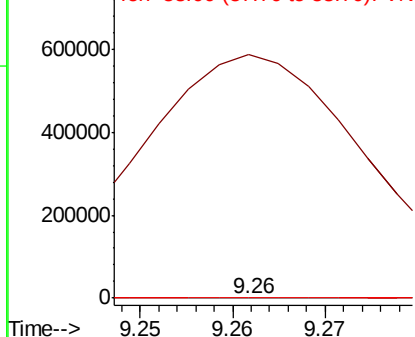


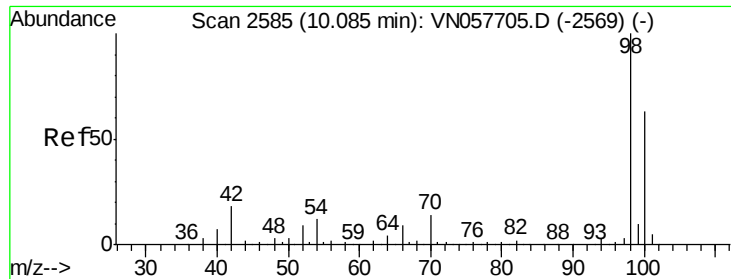
#49
1,4-Dioxane
Concen: 1.375 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.07 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 1602525.0 35.4 53.2#
58 6569.1 61.5 92.3#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 52.963 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampleId :

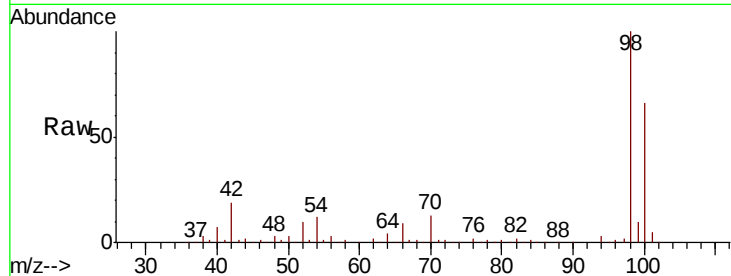
T12-B1-(3.5)

Tgt Ion: 98 Resp: 581688

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057729.D (-2492) (-)

Ion 100.00 (99.70 to 100.70): VN057729.D (-2492) (-)

10.08

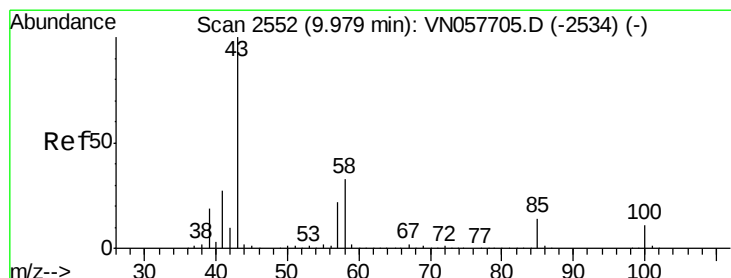
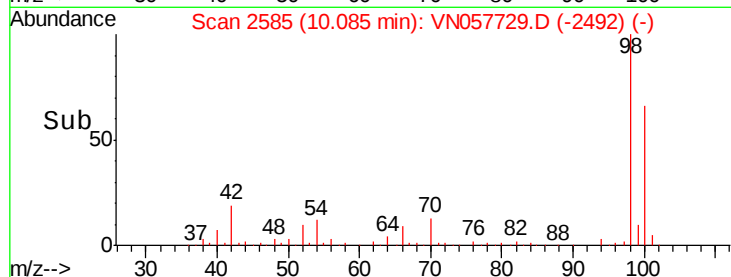
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.229 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057729.D

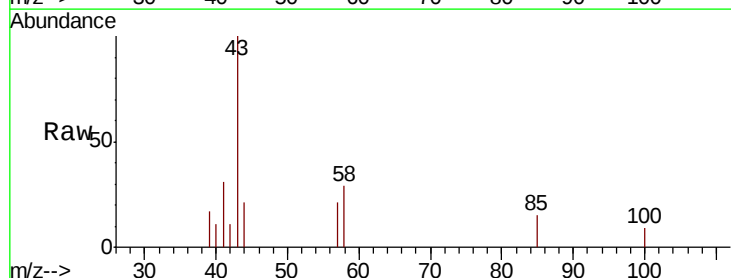
Acq: 6 Sep 2019 21:33

Tgt Ion: 43 Resp: 5640

Ion Ratio Lower Upper

43 100

58 30.1 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN057729.D (-2459) (-)

Ion 58.00 (57.70 to 58.70): VN057729.D (-2459) (-)

9.98

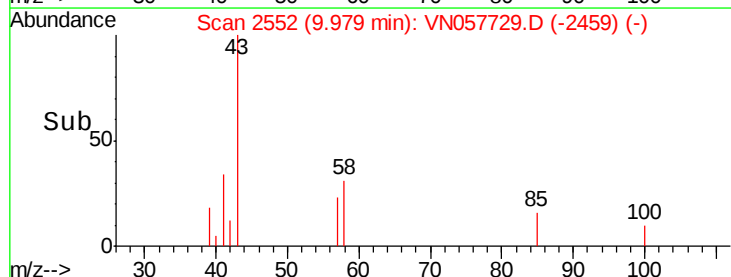
3000

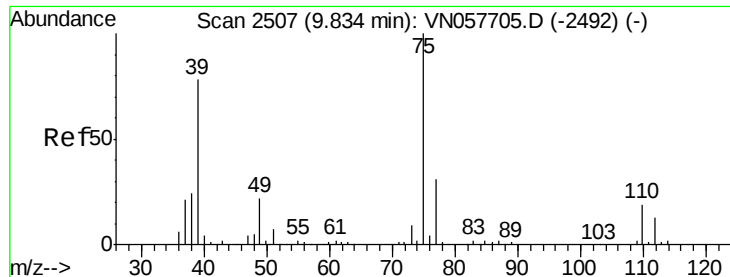
2000

1000

0

Time-->



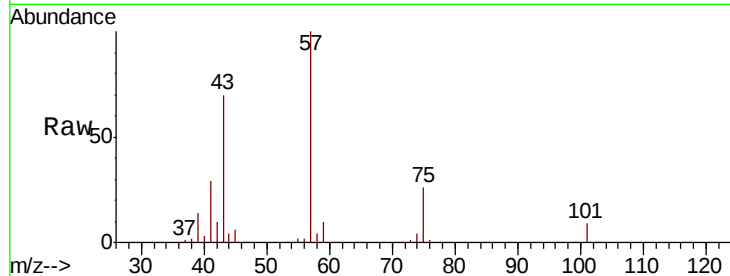


#54

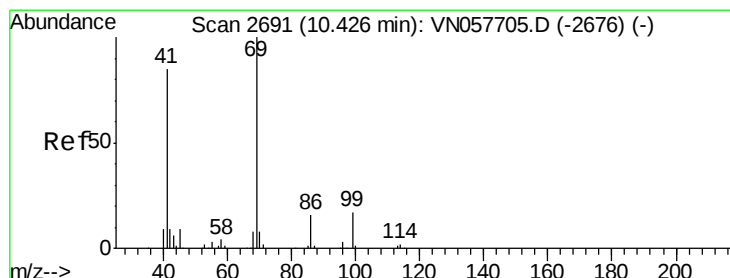
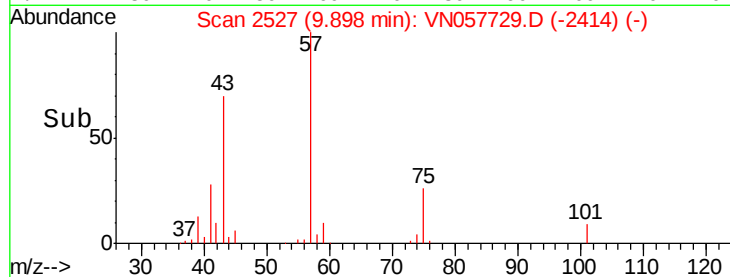
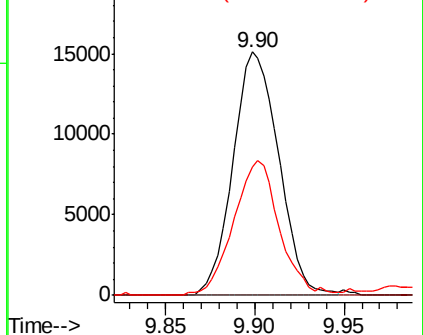
cis-1,3-Dichloropropene
 Concen: 5.338 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B1-(3.5)

Tgt Ion: 75 Resp: 27056
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 51.8 62.4 93.6#



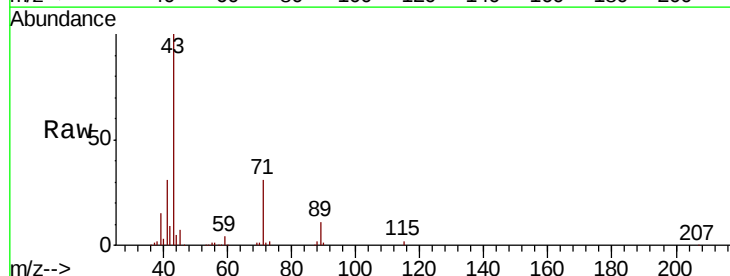
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



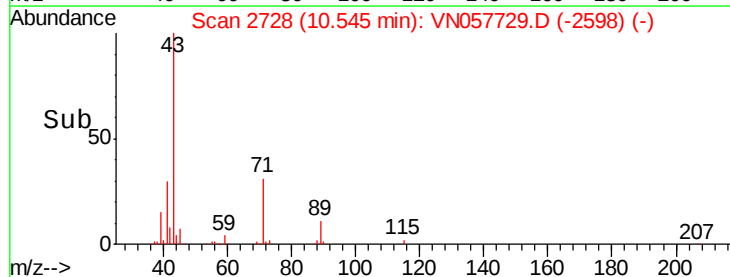
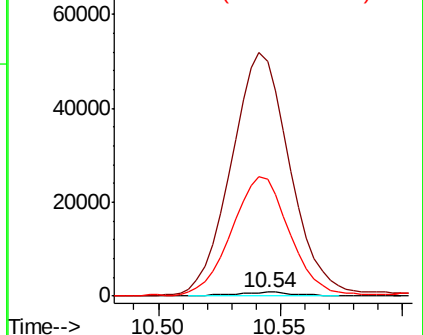
#56

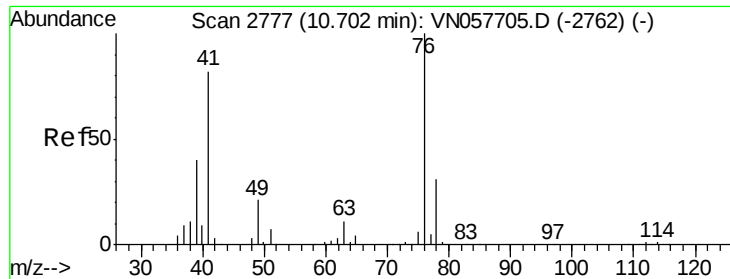
Ethyl methacrylate
 Concen: 0.283 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

Tgt Ion: 69 Resp: 1350
 Ion Ratio Lower Upper
 69 100
 41 6523.9 69.0 103.4#
 39 3154.1 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

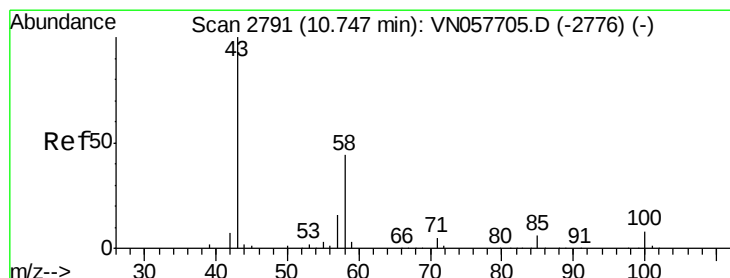
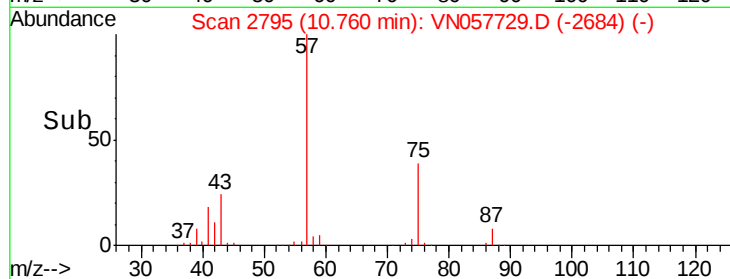
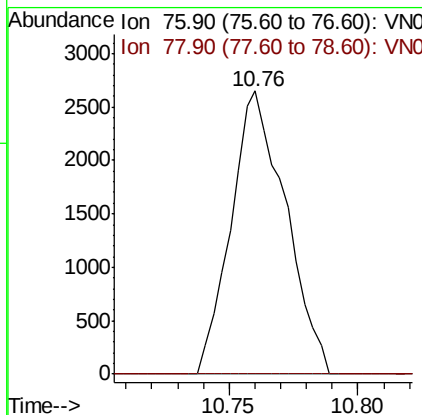
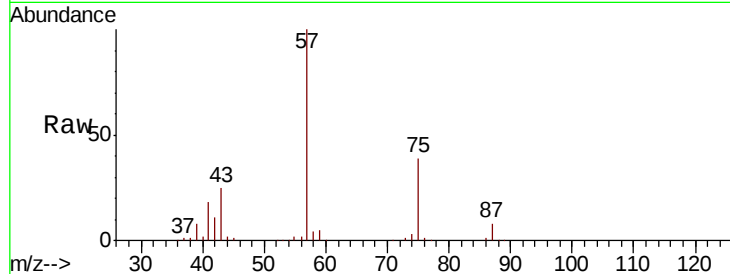




#57
 1,3-Dichloropropane
 Concen: 0.728 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

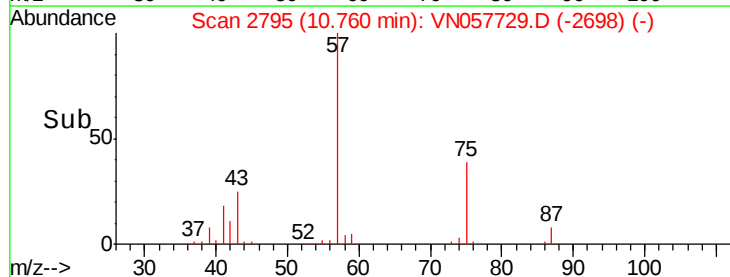
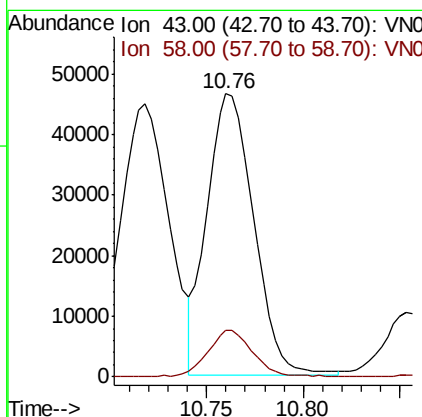
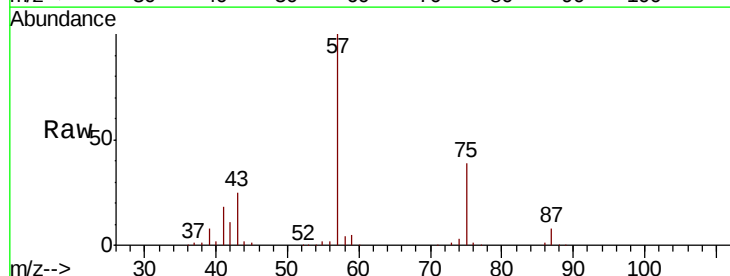
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B1-(3.5)

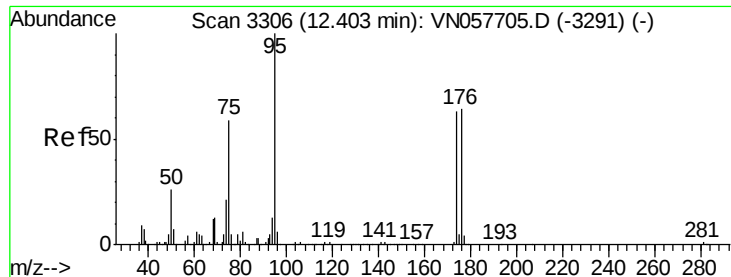
Tgt Ion: 76 Resp: 3913
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 24.142 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN057729.D
 Acq: 6 Sep 2019 21:33

Tgt Ion: 43 Resp: 78123
 Ion Ratio Lower Upper
 43 100
 58 16.2 22.1 66.5#





#62

4-Bromofluorobenzene

Concen: 46.418 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampleId :

T12-B1-(3.5)

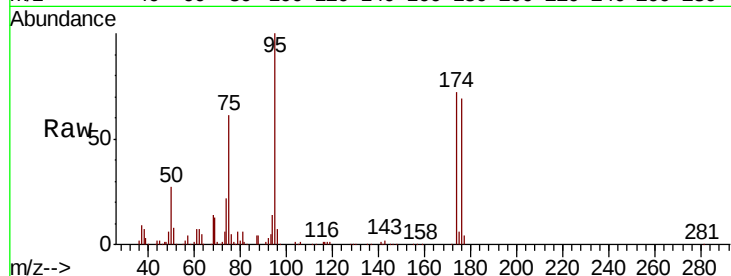
Tgt Ion: 95 Resp: 211747

Ion Ratio Lower Upper

95 100

174 71.0 0.0 128.0

176 67.2 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): VN057729.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN057729.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN057729.D (-2903) (-)

12.40

150000

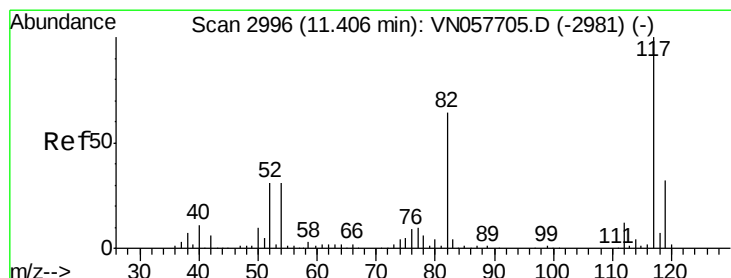
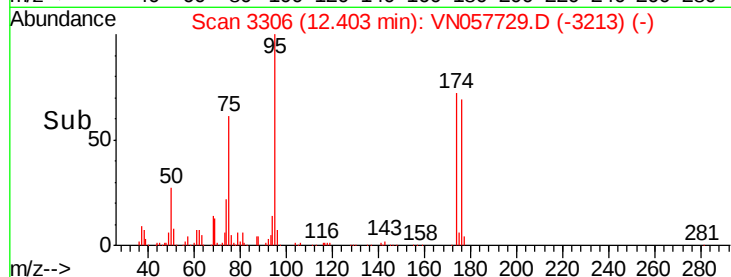
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

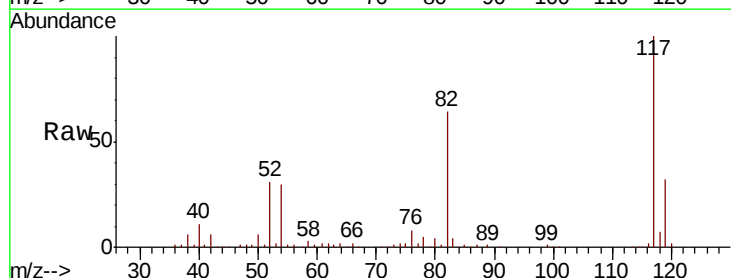
Tgt Ion: 117 Resp: 301492

Ion Ratio Lower Upper

117 100

82 63.6 51.4 77.0

119 32.0 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN057729.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057729.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057729.D (-2903) (-)

11.41

200000

150000

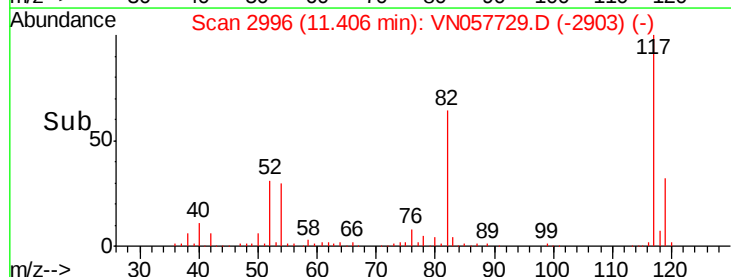
100000

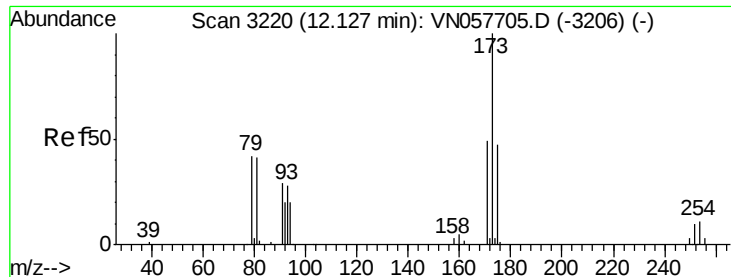
50000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 3.327 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampled :

T12-B1-(3.5)

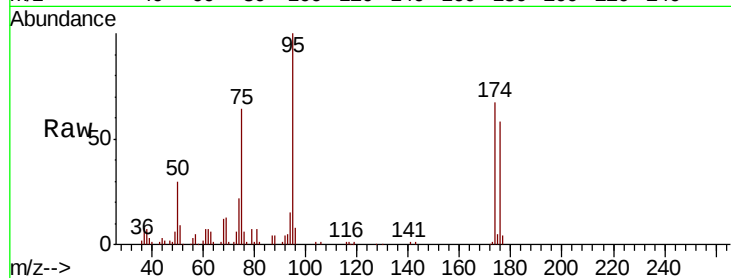
Tgt Ion:173 Resp: 185

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

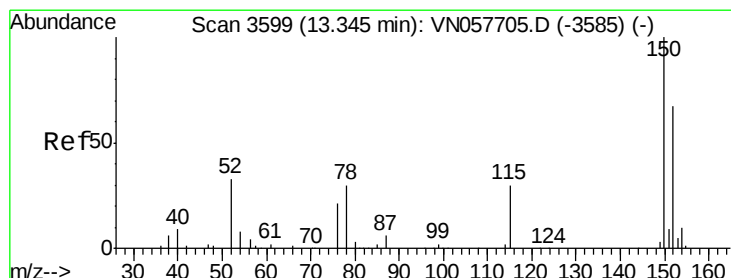
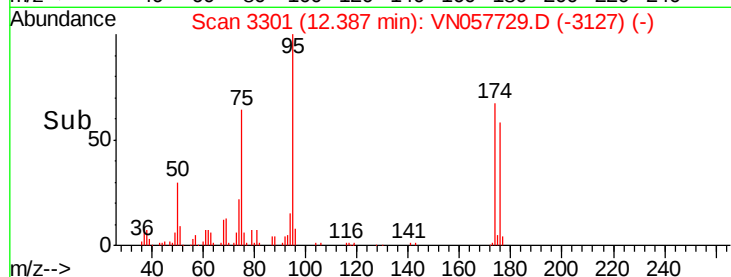
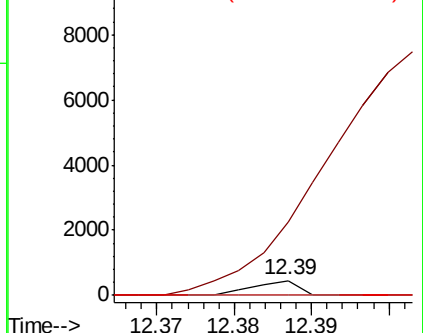
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

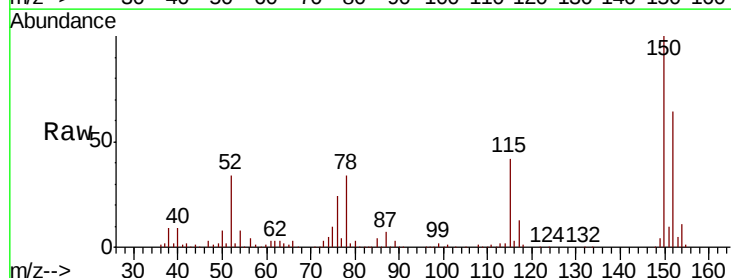
Tgt Ion:152 Resp: 151452

Ion Ratio Lower Upper

152 100

115 66.3 33.8 101.3

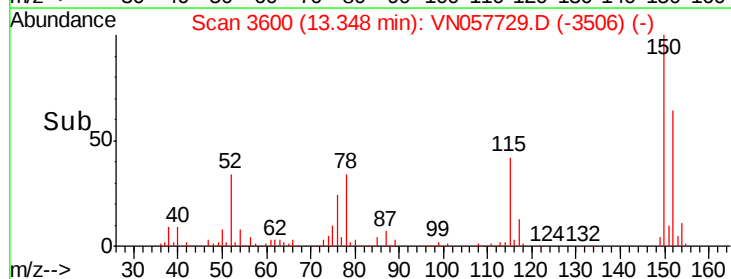
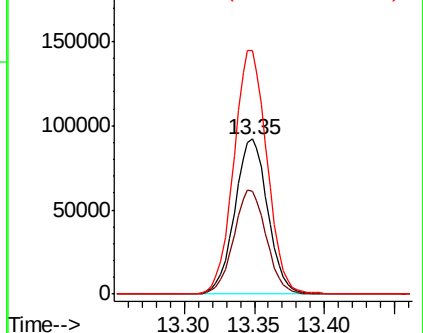
150 157.6 0.0 345.4

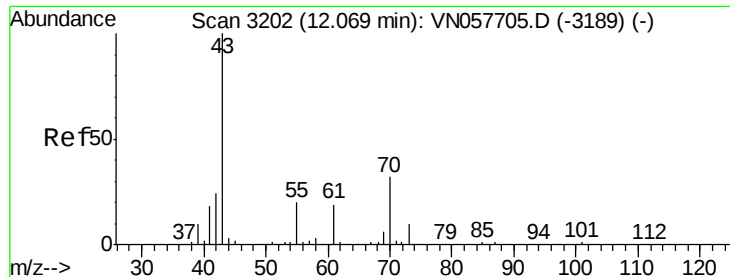


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

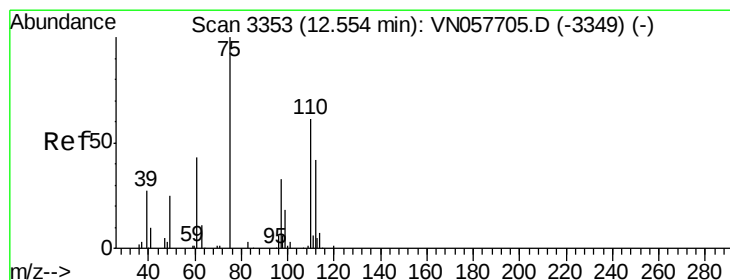
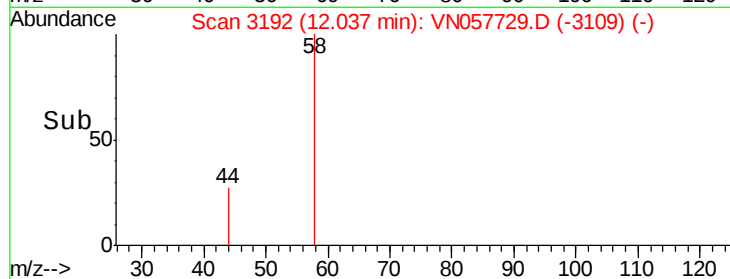
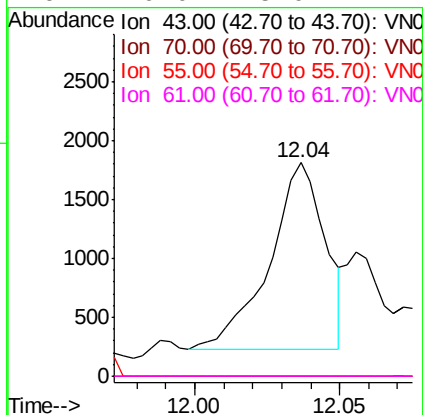
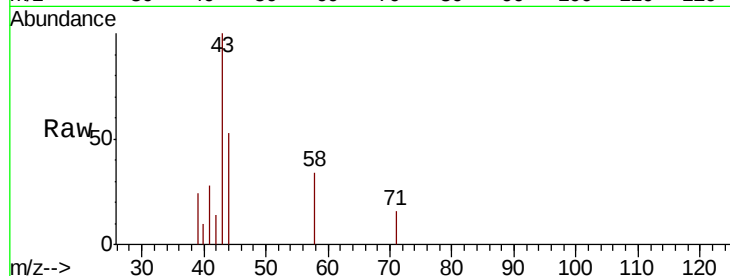




#74
N-amyI acetate
Concen: 0.316 ug/l
RT: 12.04 min Scan# 3192
Delta R.T. -0.03 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

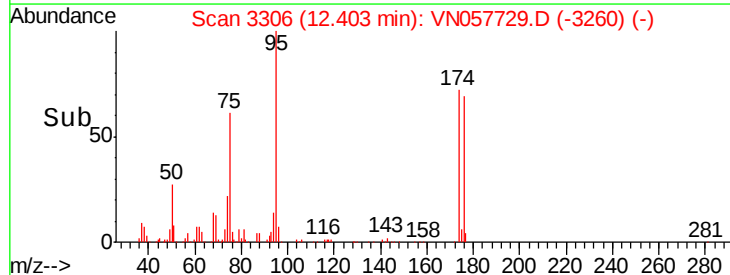
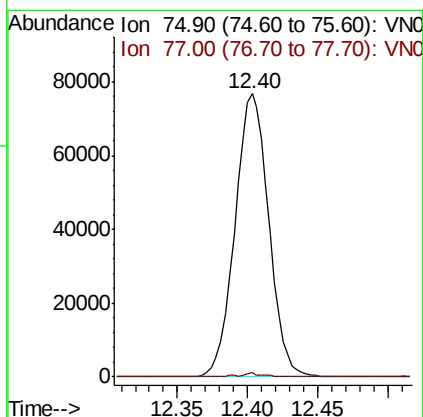
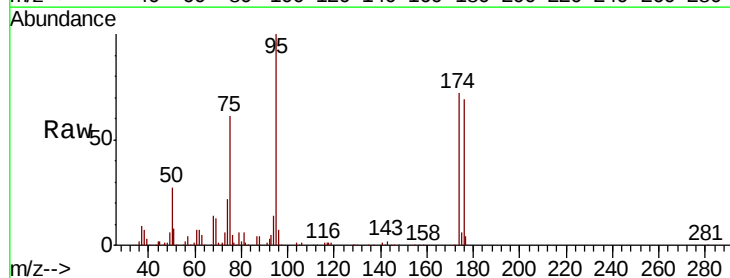
Instrument :
MSVOA_N
ClientSampled :
T12-B1-(3.5)

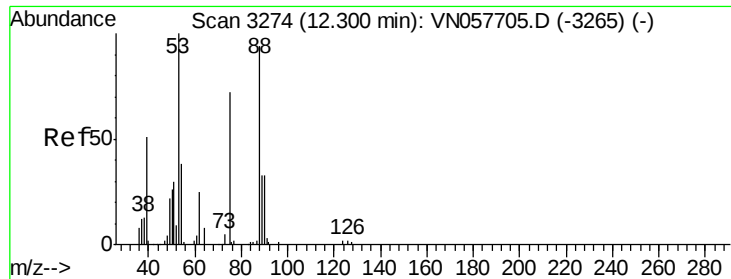
Tgt Ion: 43 Resp: 2114
Ion Ratio Lower Upper
43 100
70 0.0 26.1 39.1#
55 0.0 16.3 24.5#
61 0.0 15.0 22.4#



#76
1,2,3-Trichloropropane
Concen: 37.005 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN057729.D
Acq: 6 Sep 2019 21:33

Tgt Ion: 75 Resp: 128701
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 115.087 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057729.D

Acq: 6 Sep 2019 21:33

Instrument :

MSVOA_N

ClientSampleId :

T12-B1-(3.5)

Tgt Ion: 75 Resp: 128701

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#

