

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058734.D
 Acq On : 12 Oct 2019 4:07
 Operator : JC/SP
 Sample : K5323-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 12 05:49:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	412848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	651634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	599316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	247891	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	300852	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
35) Dibromofluoromethane	7.57	113	214731	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
50) Toluene-d8	10.08	98	857232	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	
62) 4-Bromofluorobenzene	12.40	95	288480	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	

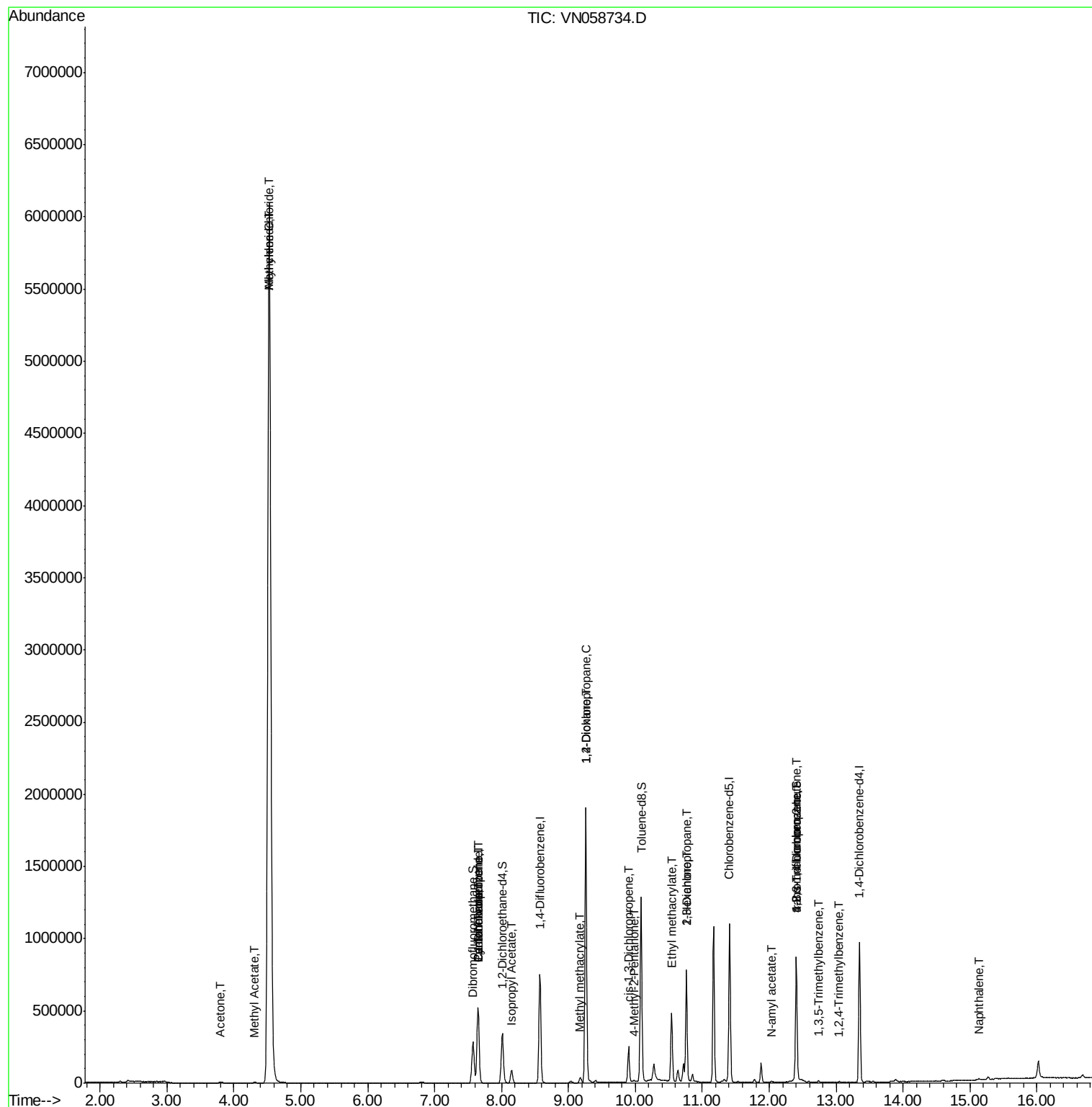
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.53	41	170627	21.325	ug/l #	23
16) Acetone	3.80	43	14511	6.064	ug/l	93
18) Methyl Acetate	4.30	43	4482	0.738	ug/l #	60
20) Methylene Chloride	4.53	84	4632923	926.426	ug/l	93
31) Cyclohexane	7.65	56	9921	1.170	ug/l #	7
36) 1,1-Dichloropropene	7.65	75	33845	5.137	ug/l #	50
38) Carbon Tetrachloride	7.65	117	40926	6.374	ug/l #	17
43) Isopropyl Acetate	8.15	43	104129	9.174	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	2285	0.451	ug/l #	45
48) Methyl methacrylate	9.17	41	6088	1.183	ug/l #	14
49) 1,4-Dioxane	9.26	88	159	1.997	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6954	1.091	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	41821	5.251	ug/l #	65
56) Ethyl methacrylate	10.54	69	2030	0.293	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7469	0.925	ug/l #	42
59) 2-Hexanone	10.76	43	113907	23.121	ug/l #	53
74) N-amyl acetate	12.03	43	4940	0.613	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	155436	28.583	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4748	0.310	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	155436	76.564	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.05	105	3110	0.204	ug/l	99
95) Naphthalene	15.14	128	3323	0.241	ug/l #	91

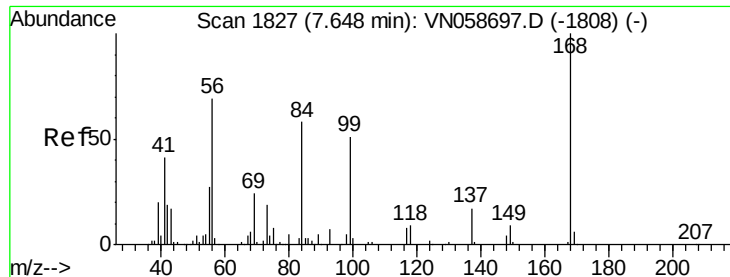
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

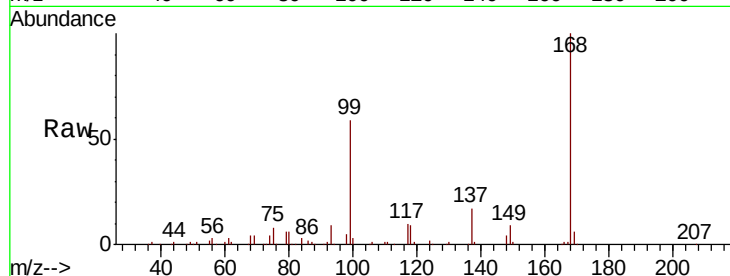
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 412848

Ion Ratio Lower Upper

168 100

99 59.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

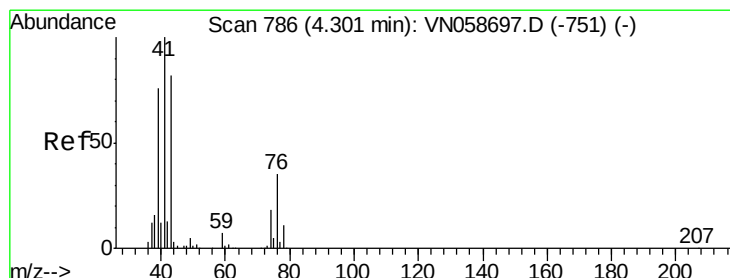
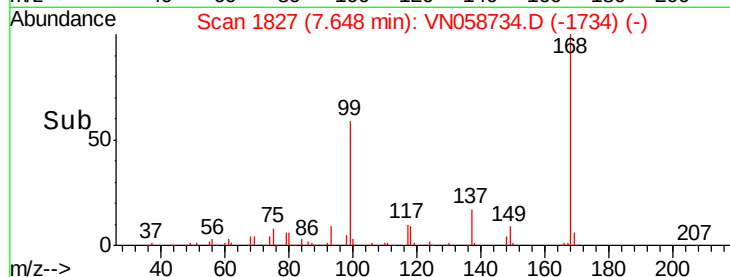
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#14

Allyl chloride

Concen: 21.325 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.23 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

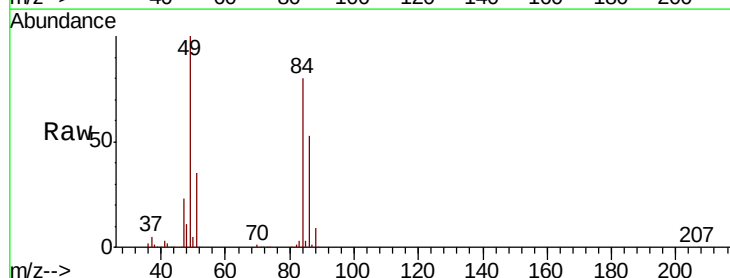
Tgt Ion: 41 Resp: 170627

Ion Ratio Lower Upper

41 100

39 0.8 57.2 85.8#

76 0.0 25.0 37.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.53

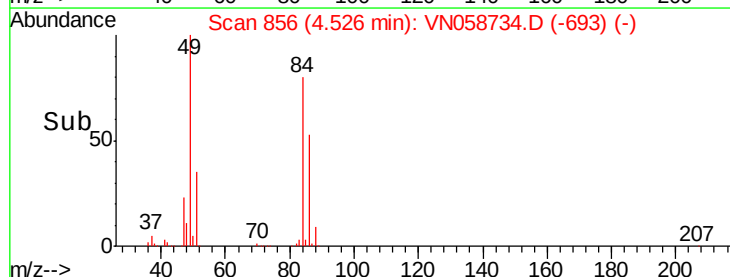
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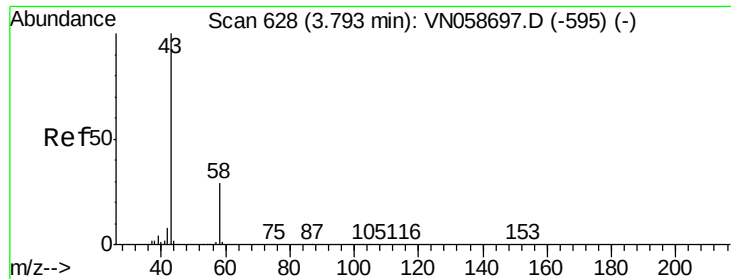
40000

20000

0

Time--> 4.40 4.50 4.60





#16

Acetone

Concen: 6.064 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :

MSVOA_N

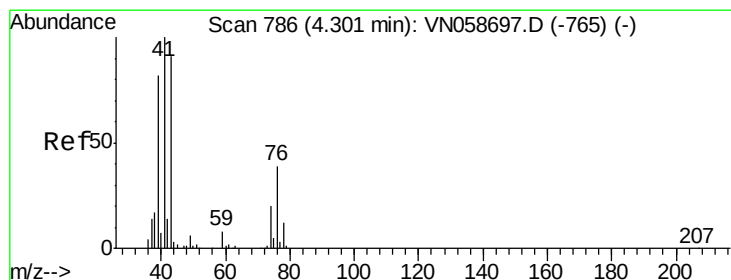
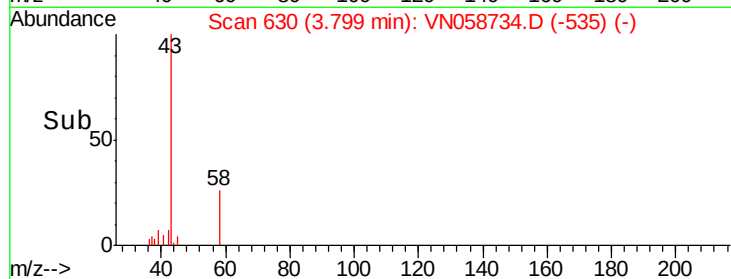
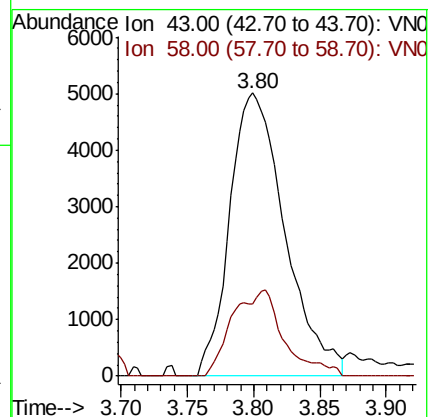
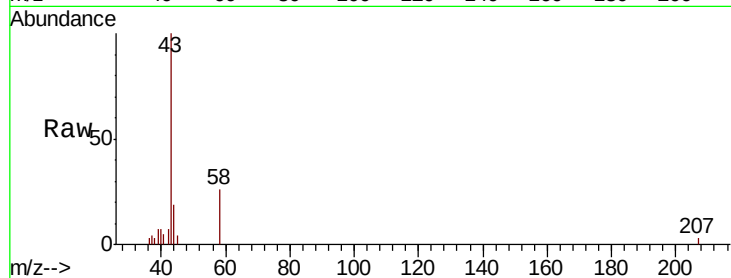
ClientSampleId :

Tot Ion: 43 Resp: 14511

Ion Ratio Lower Upper

43 100

58 25.6 23.3 34.9



#18

Methyl Acetate

Concen: 0.738 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058734.D

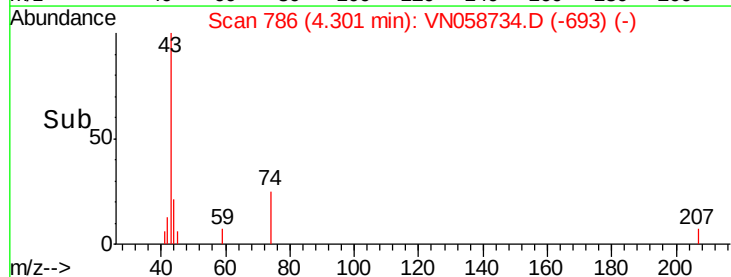
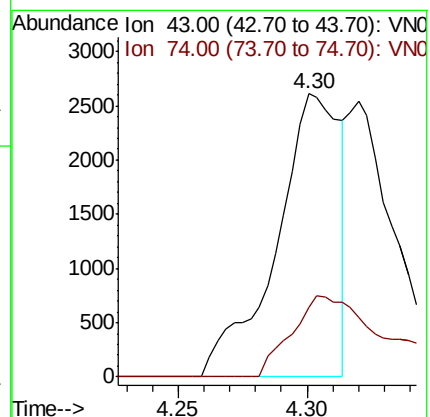
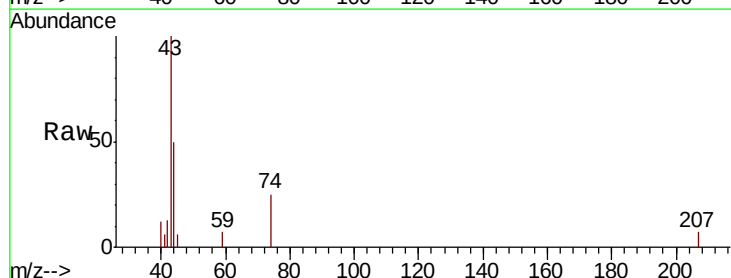
Acq: 12 Oct 2019 4:07

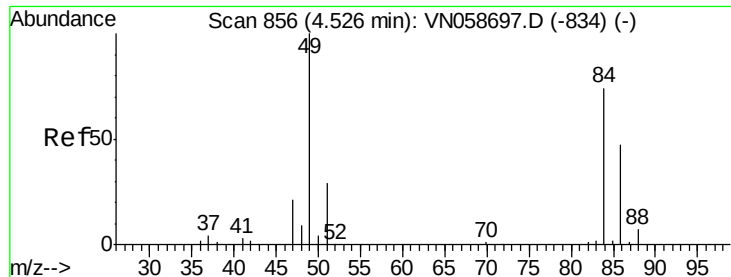
Tgt Ion: 43 Resp: 4482

Ion Ratio Lower Upper

43 100

74 40.6 17.2 25.8#

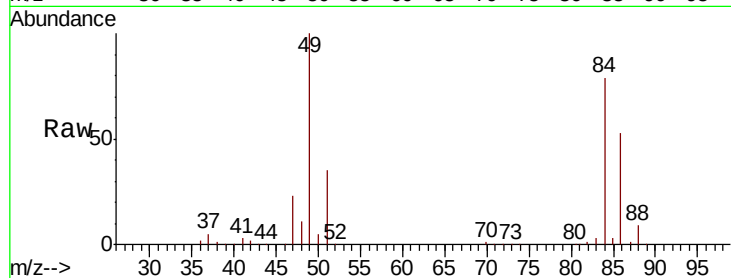




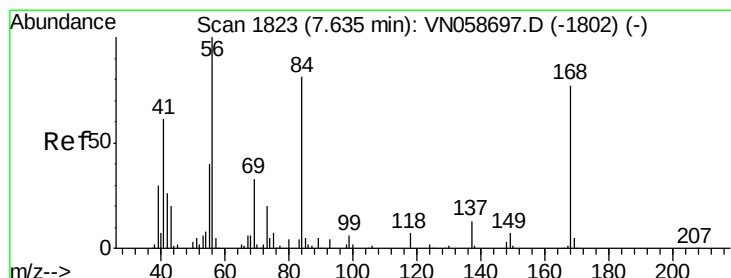
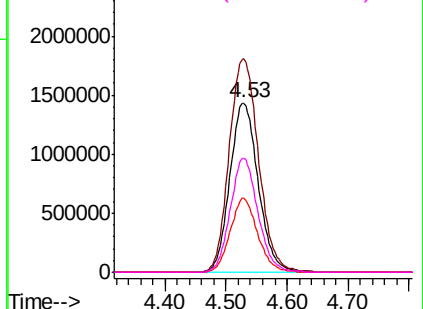
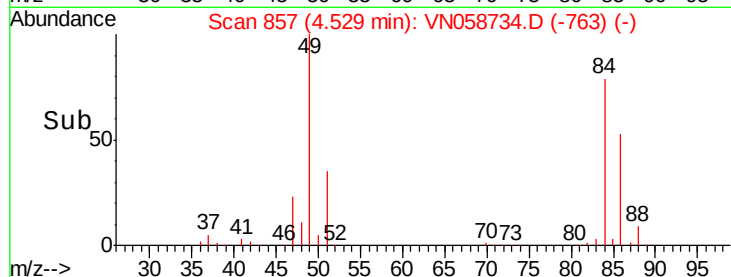
#20
Methylene Chloride
Concen: 926.426 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 4632923
Ion Ratio Lower Upper
84 100
49 125.9 107.6 161.4
51 43.6 31.4 47.0
86 67.3 50.3 75.5

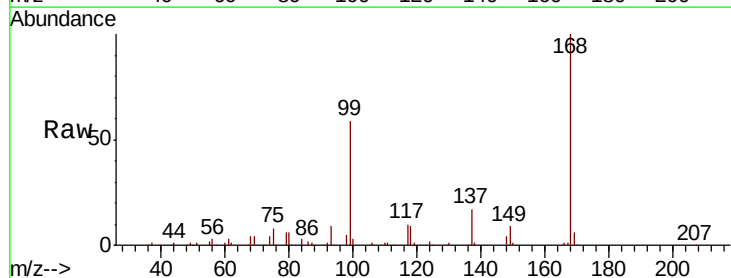


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

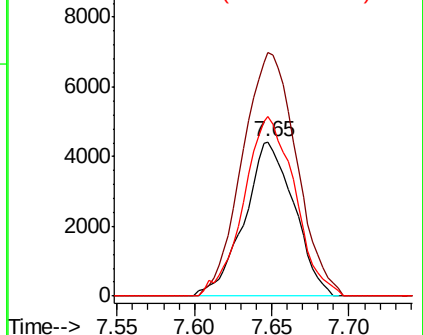
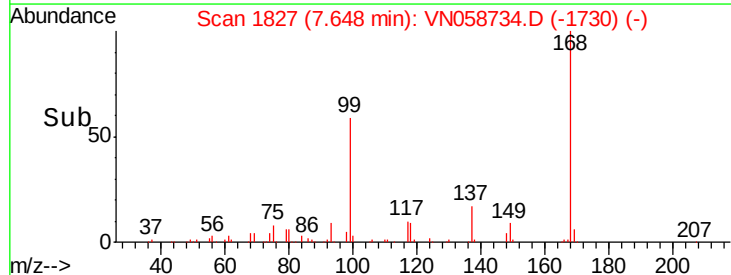


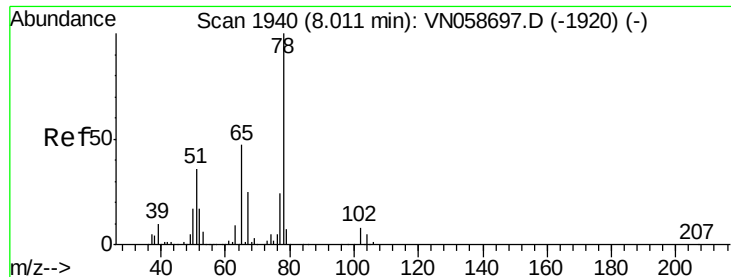
#31
Cyclohexane
Concen: 1.170 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

Tgt Ion: 56 Resp: 9921
Ion Ratio Lower Upper
56 100
69 157.9 26.2 39.4#
84 116.9 64.9 97.3#



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

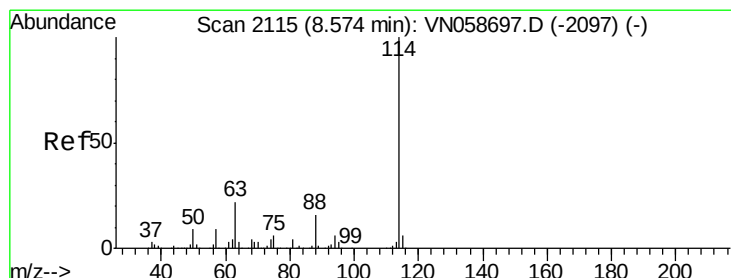
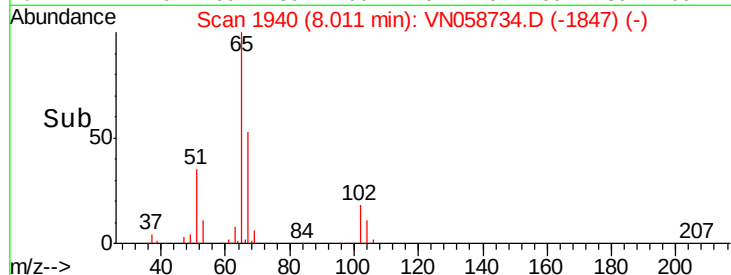
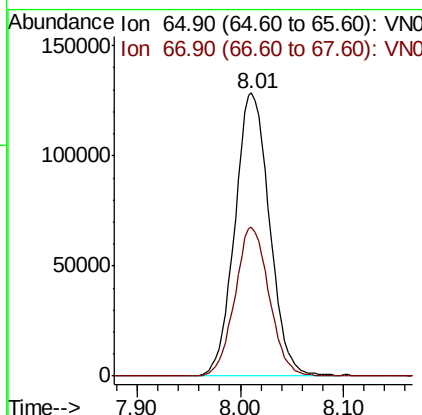
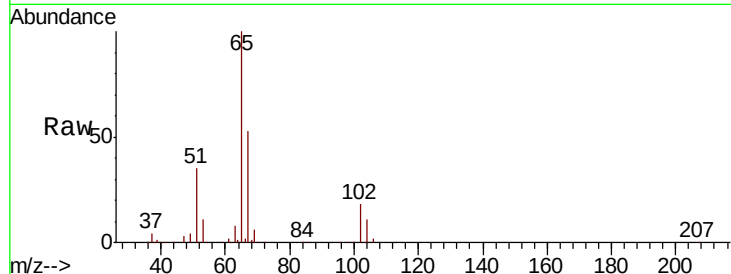




#33
 1,2-Dichloroethane-d4
 Concen: 52.052 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058734.D
 Acq: 12 Oct 2019 4:07

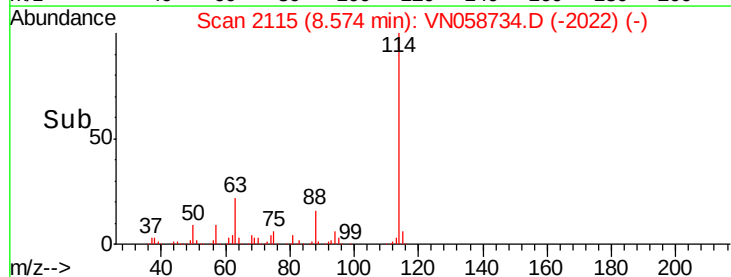
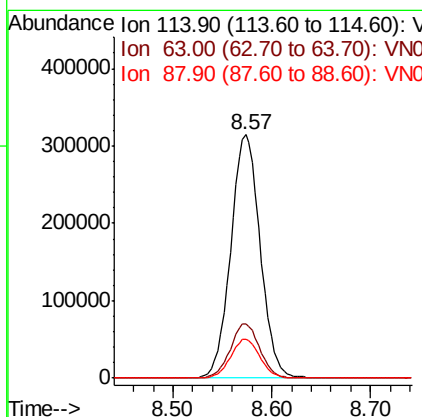
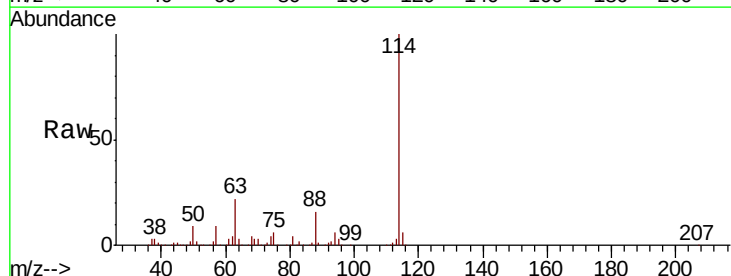
Instrument :
 MSVOA_N
 ClientSampled :

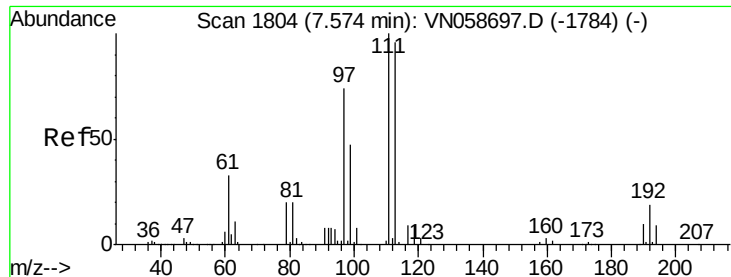
Tot Ion: 65 Resp: 300852
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058734.D
 Acq: 12 Oct 2019 4:07

Tgt Ion: 114 Resp: 651634
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.8
 88 16.1 0.0 32.0

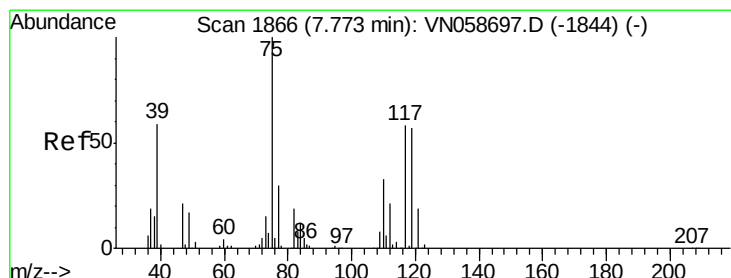
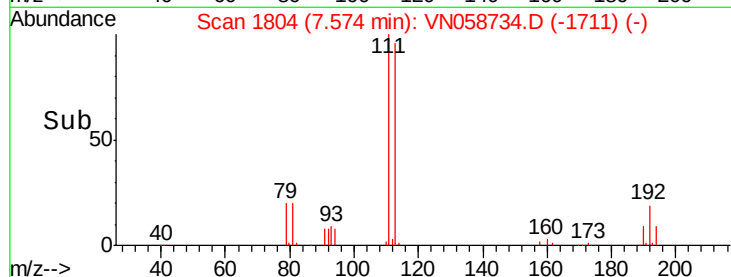
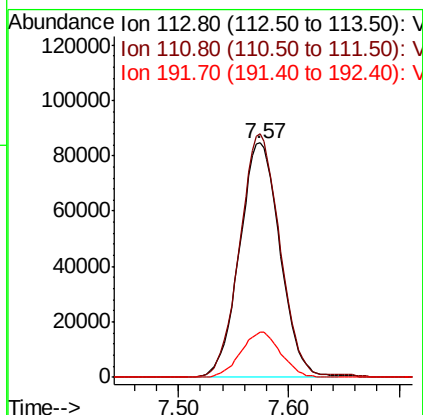
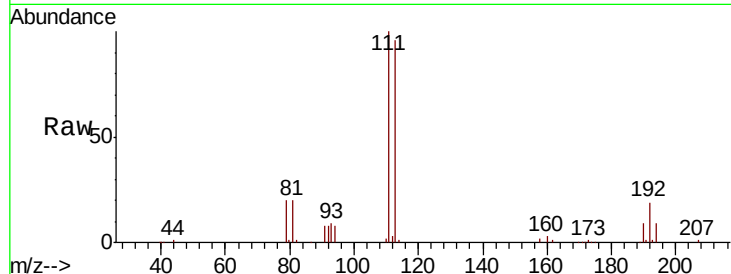




#35
Dibromofluoromethane
Concen: 53.349 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

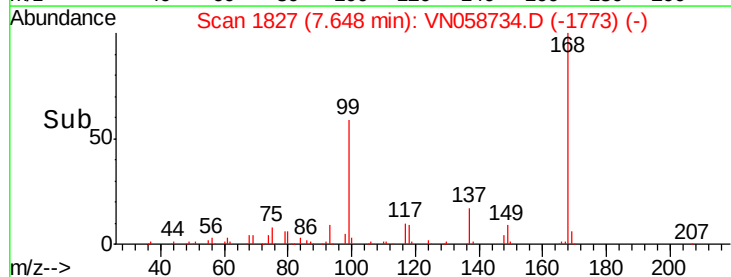
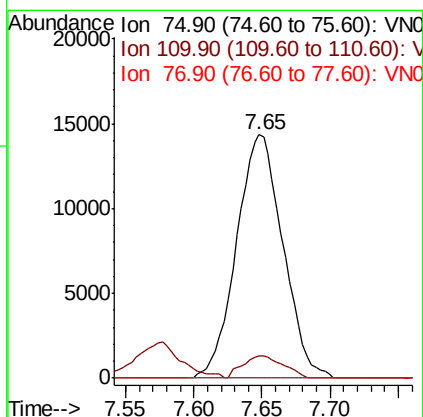
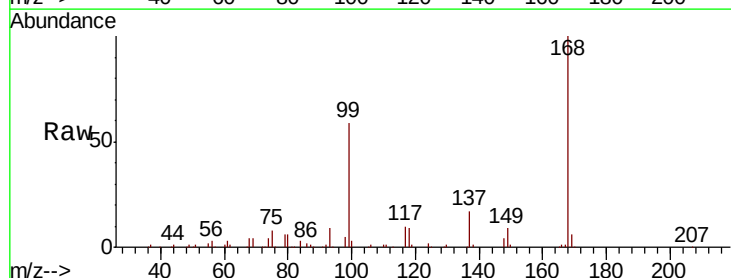
Instrument :
MSVOA_N
ClientSampled :

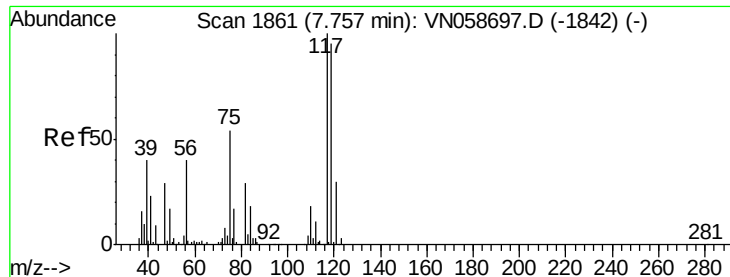
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.3	123.5
192	19.1	15.0	22.6



#36
1,1-Dichloropropene
Concen: 5.137 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.6	49.8#
77	0.0	24.6	37.0#

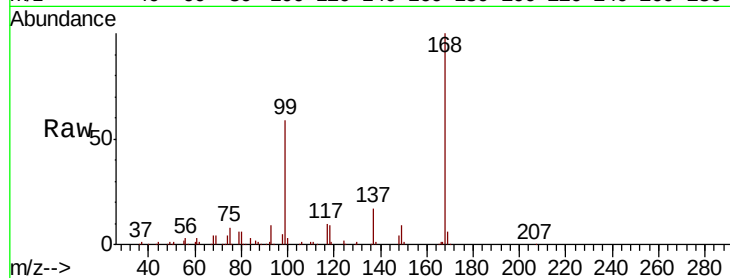




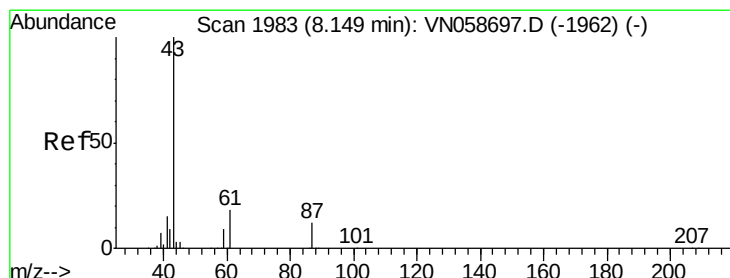
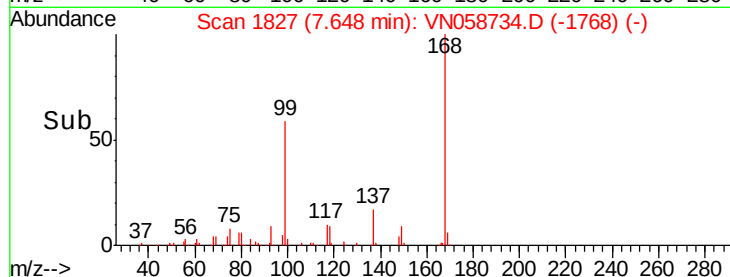
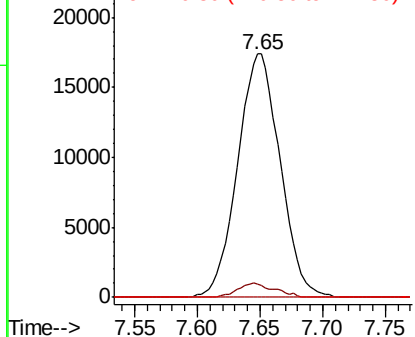
#38
Carbon Tetrachloride
Concen: 6.374 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
119	5.6	75.7	113.5#
121	0.0	23.9	35.9#

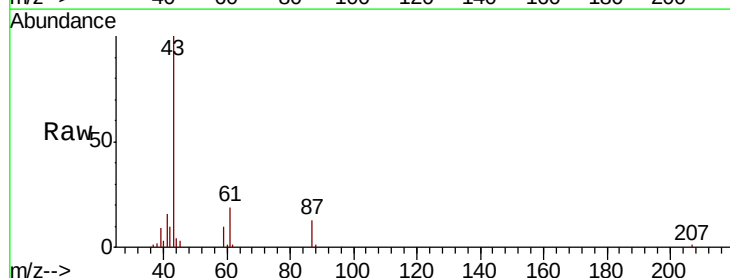


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

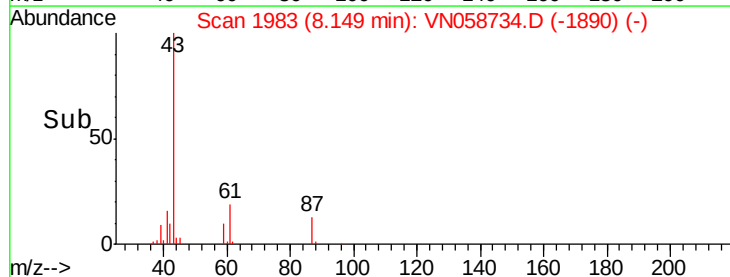
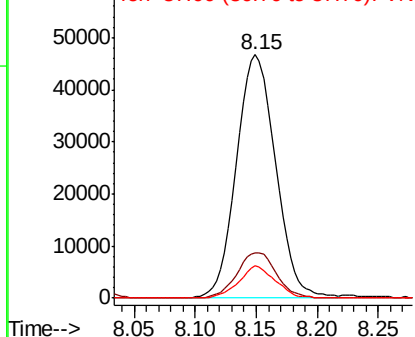


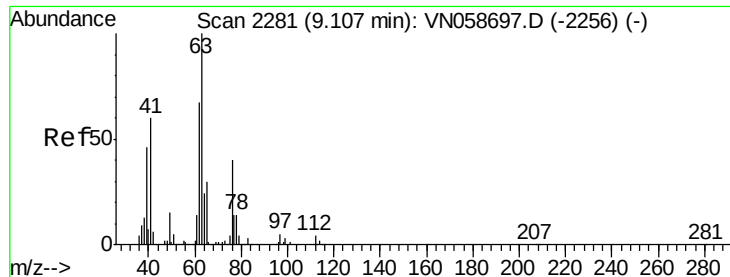
#43
Isopropyl Acetate
Concen: 9.174 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

Tgt Ion	Ratio	Lower	Upper
43	100		
61	18.6	20.3	30.5#
87	12.1	9.8	14.6



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

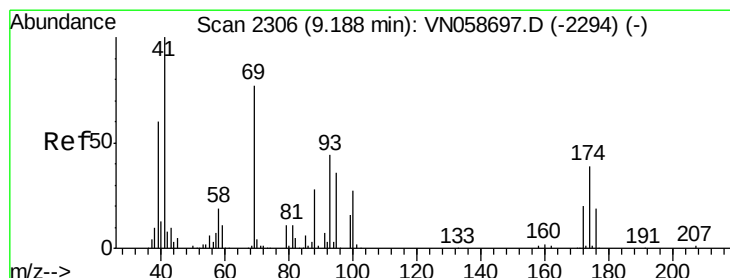
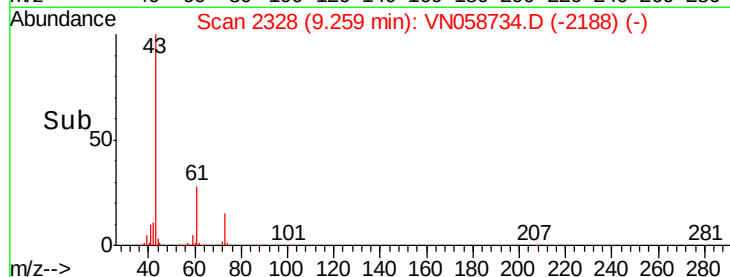
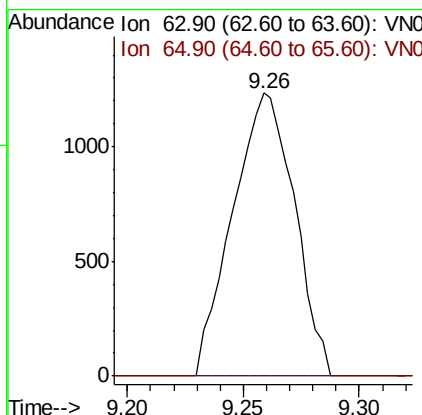
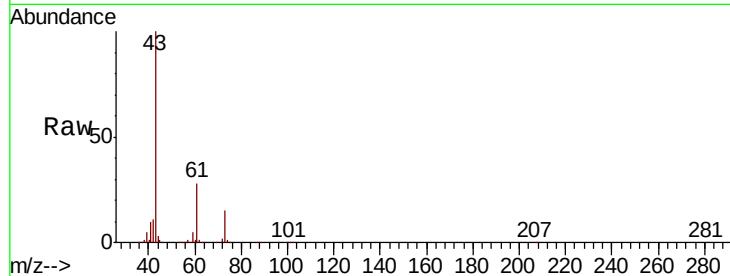




#45
 1,2-Dichloropropane
 Concen: 0.451 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN058734.D
 Acq: 12 Oct 2019 4:07

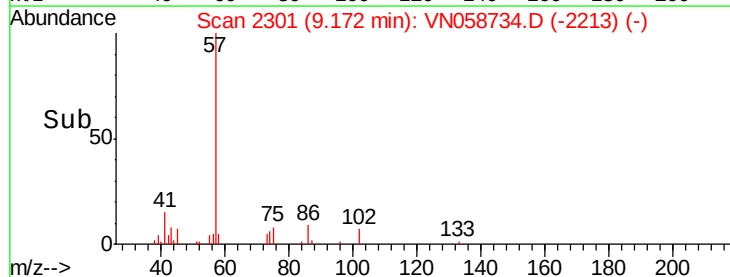
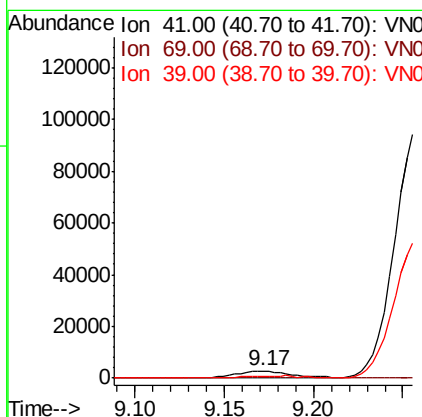
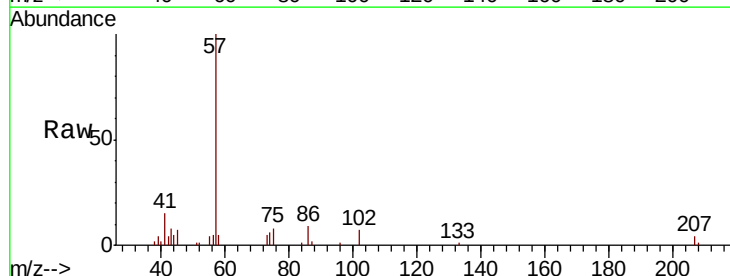
Instrument :
 MSVOA_N
 ClientSampled :

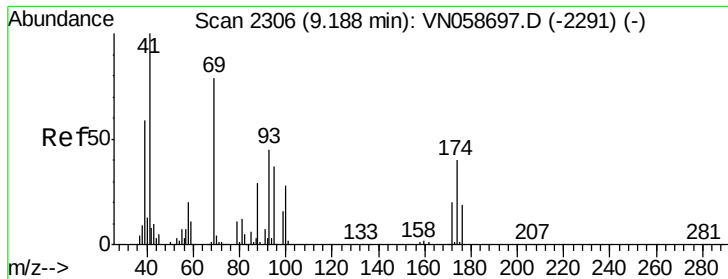
Tot Ion: 63 Resp: 2285
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.1 36.1#



#48
 Methyl methacrylate
 Concen: 1.183 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058734.D
 Acq: 12 Oct 2019 4:07

Tgt Ion: 41 Resp: 6088
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.4 95.2#
 39 0.0 48.9 73.3#





#49

1,4-Dioxane

Concen: 1.997 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :
MSVOA_N
ClientSampled :

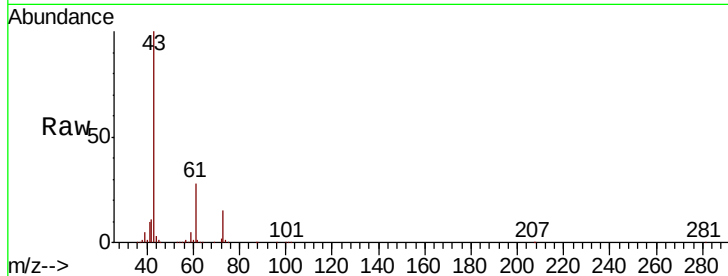
Tot Ion: 88 Resp: 159

Ion Ratio Lower Upper

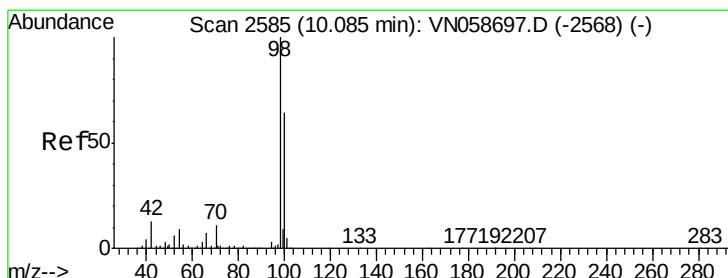
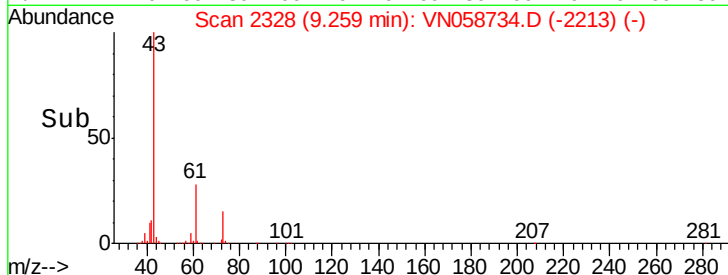
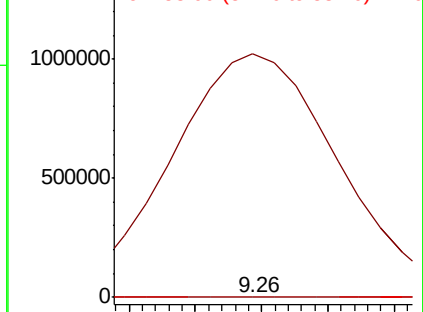
88 100

43 1163873.6 28.6 43.0#

58 5247.2 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 53.259 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058734.D

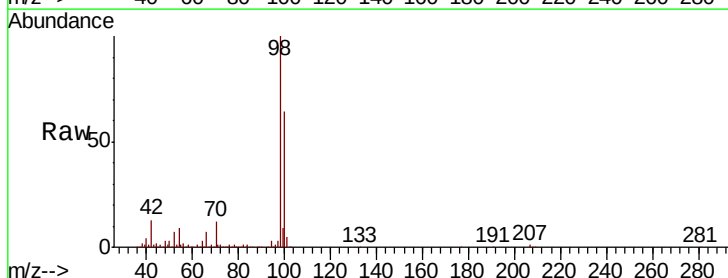
Acq: 12 Oct 2019 4:07

Tgt Ion: 98 Resp: 857232

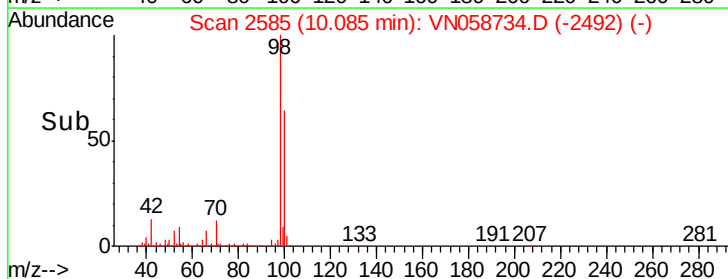
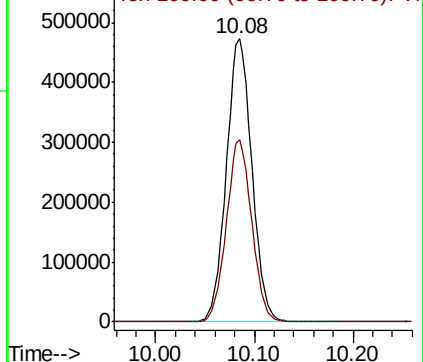
Ion Ratio Lower Upper

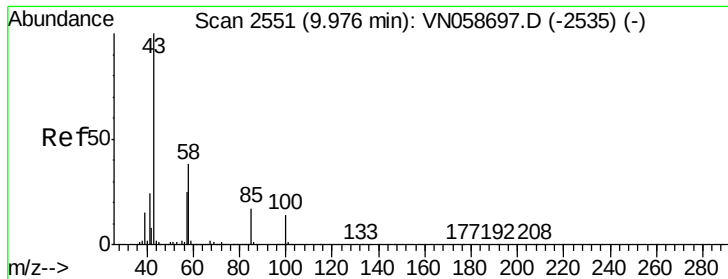
98 100

100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.091 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :

MSVOA_N

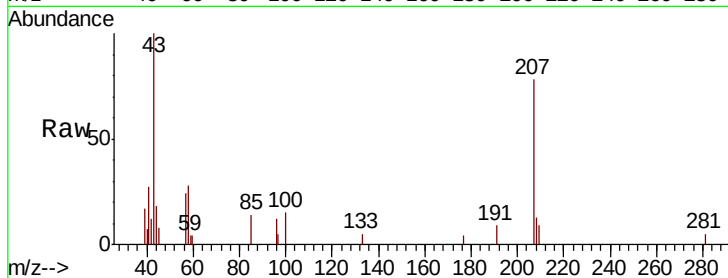
ClientSampled :

Tot Ion: 43 Resp: 6954

Ion Ratio Lower Upper

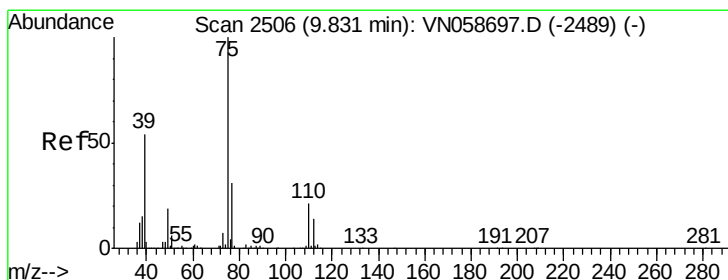
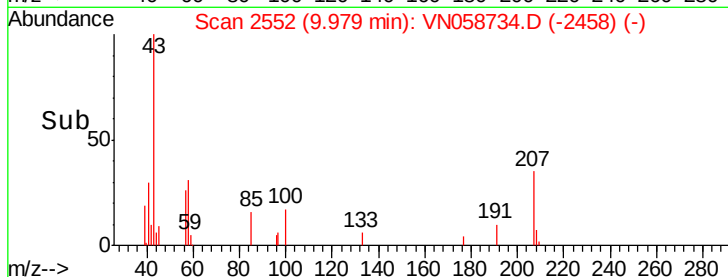
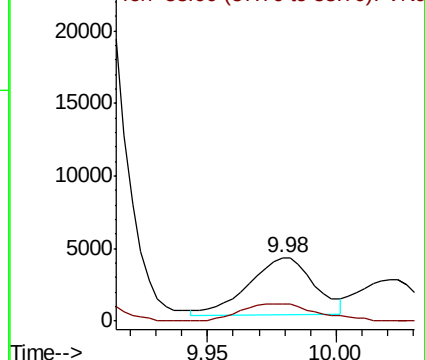
43 100

58 35.8 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.251 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

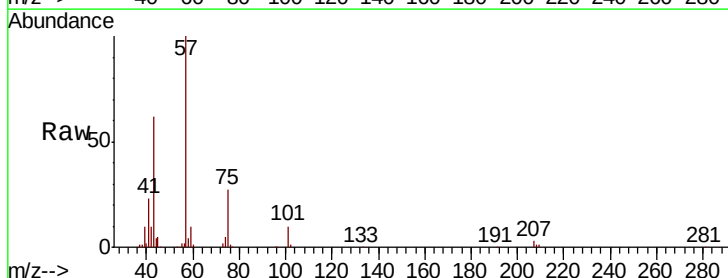
Tgt Ion: 75 Resp: 41821

Ion Ratio Lower Upper

75 100

77 0.8 24.4 36.6#

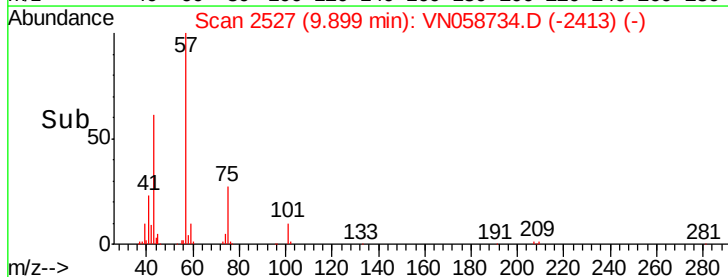
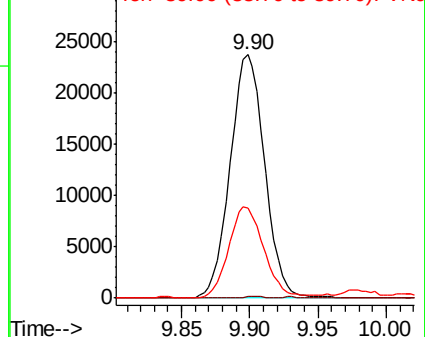
39 36.8 43.1 64.7#

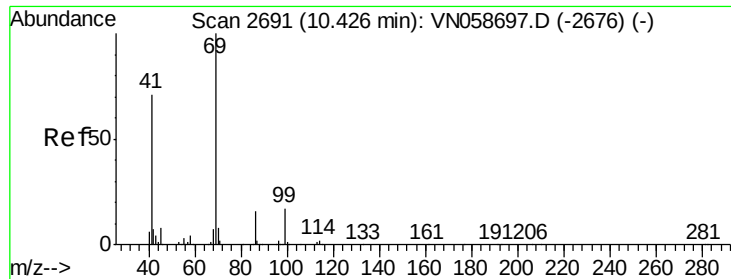


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.293 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :

MSVOA_N

ClientSampleId :

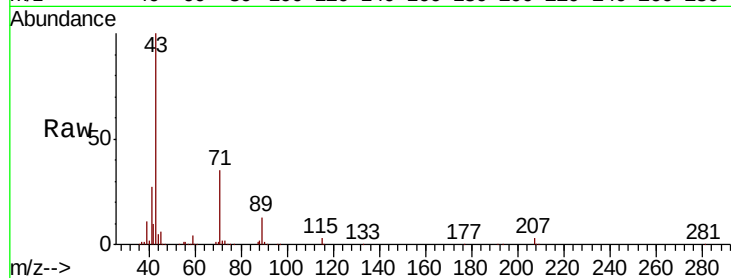
Tot Ion: 69 Resp: 2030

Ion Ratio Lower Upper

69 100

41 4627.8 56.8 85.2#

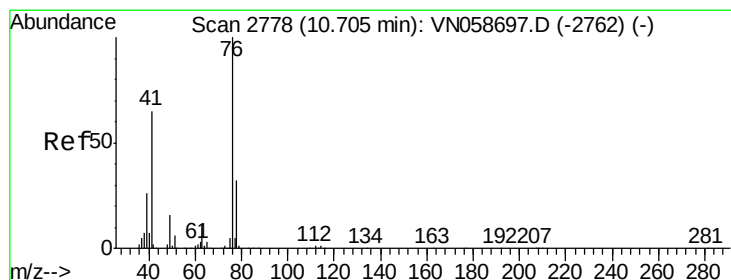
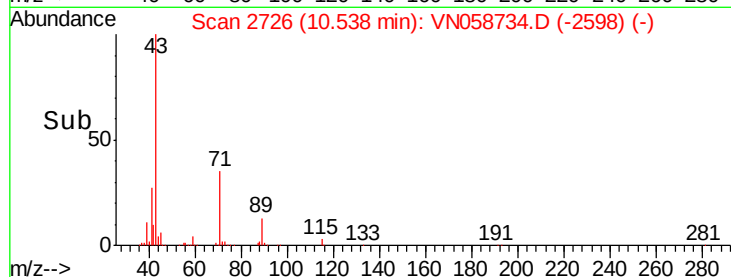
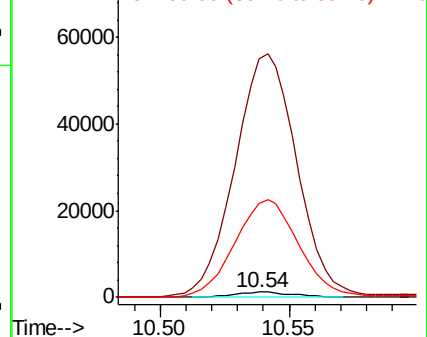
39 1940.5 32.5 48.7#



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: 0.925 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058734.D

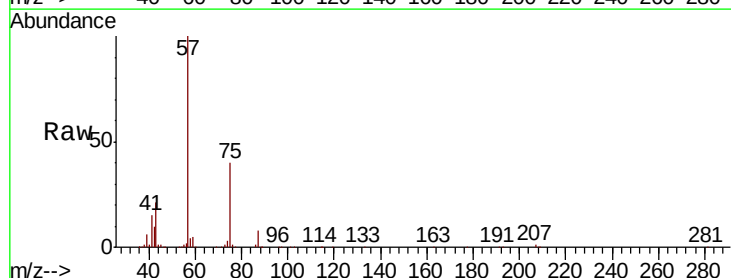
Acq: 12 Oct 2019 4:07

Tgt Ion: 76 Resp: 7469

Ion Ratio Lower Upper

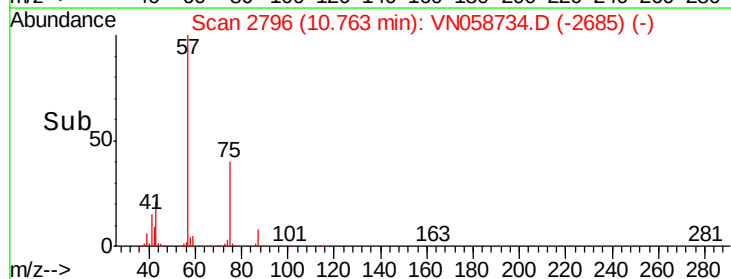
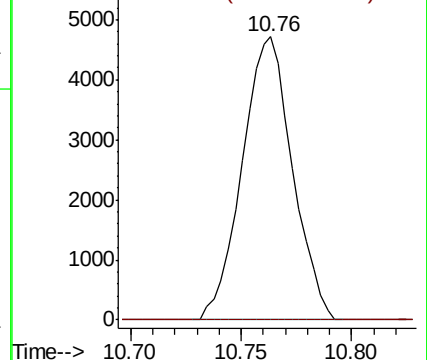
76 100

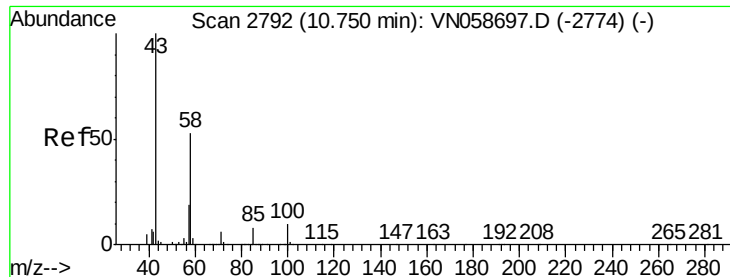
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

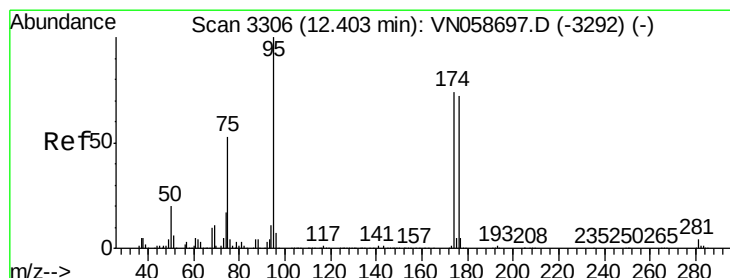
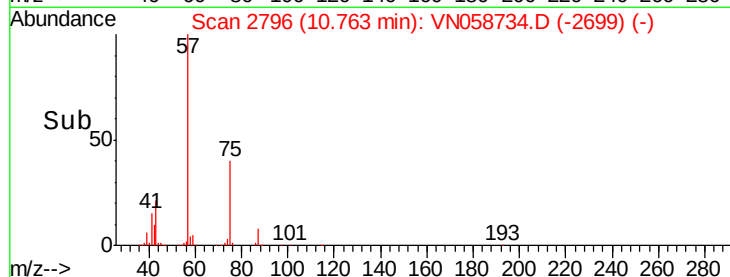
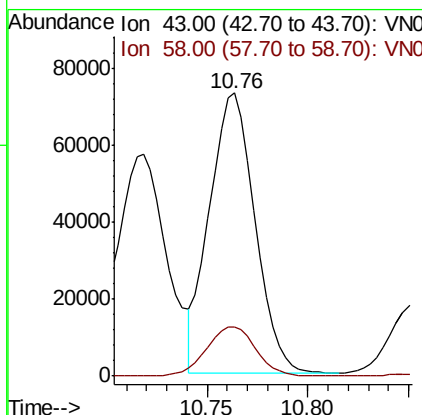
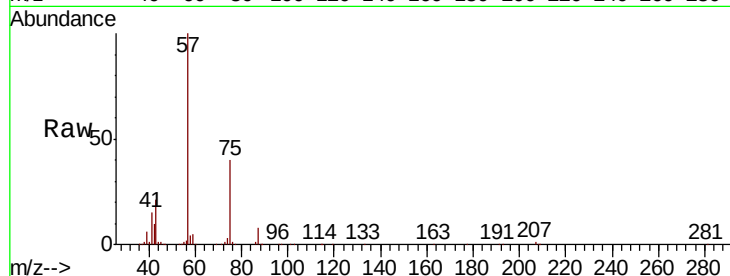




#59
2-Hexanone
Concen: 23.121 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

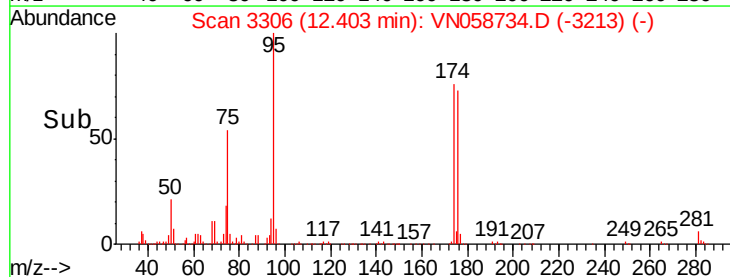
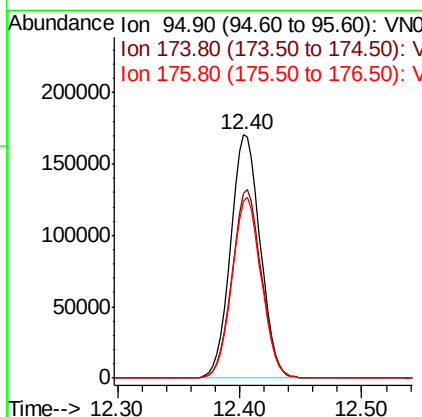
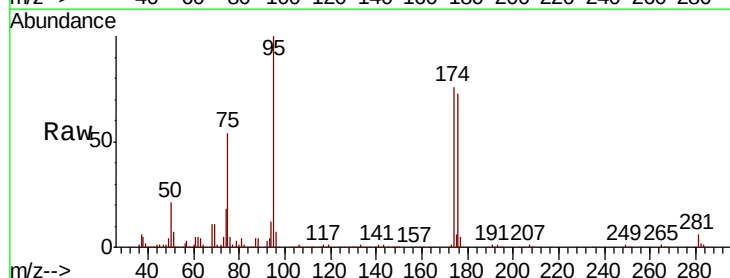
Instrument :
MSVOA_N
ClientSampled :

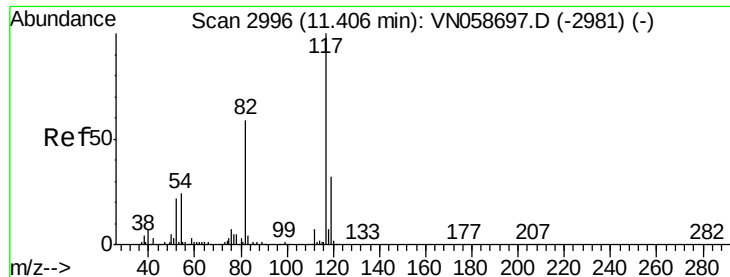
Tot Ion: 43 Resp: 113907
Ion Ratio Lower Upper
43 100
58 19.2 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 47.349 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058734.D
Acq: 12 Oct 2019 4:07

Tgt Ion: 95 Resp: 288480
Ion Ratio Lower Upper
95 100
174 76.7 0.0 150.4
176 73.4 0.0 146.8

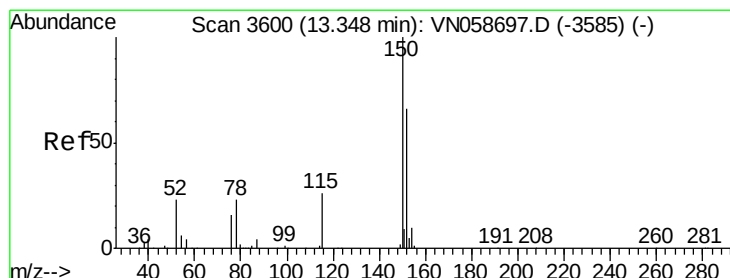
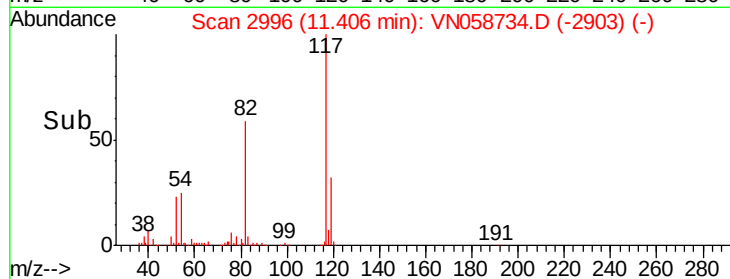
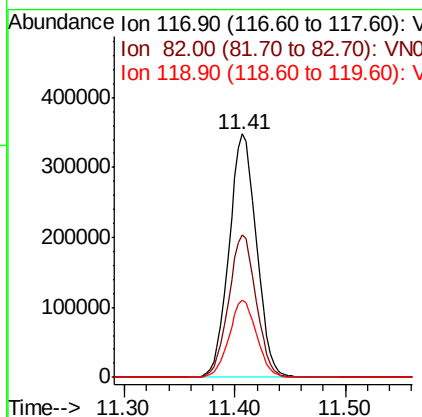
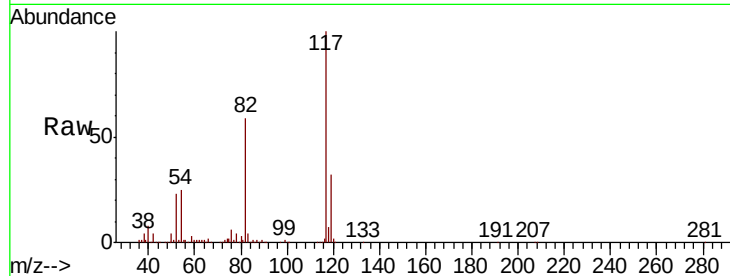




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN058734.D
 Acq: 12 Oct 2019 4:07

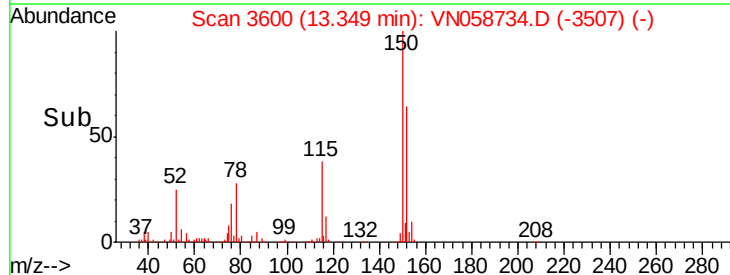
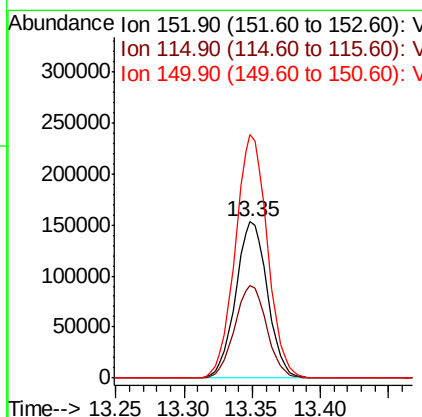
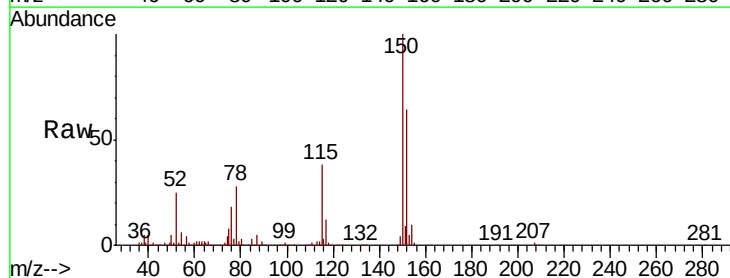
Instrument :
 MSVOA_N
 ClientSampleId :

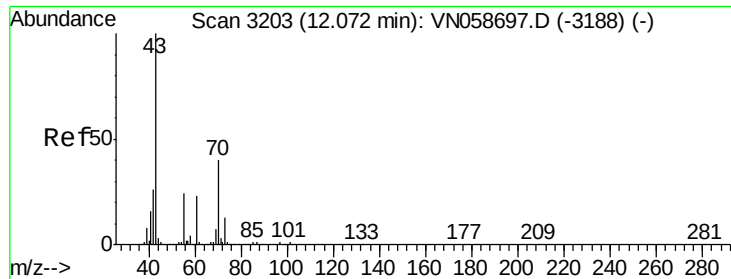
Tot Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.0	70.4
119	31.7	25.4	38.2



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN058734.D
 Acq: 12 Oct 2019 4:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.4	91.2
150	156.7	0.0	345.4





#74

N-amvl acetate

Concen: 0.613 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4940

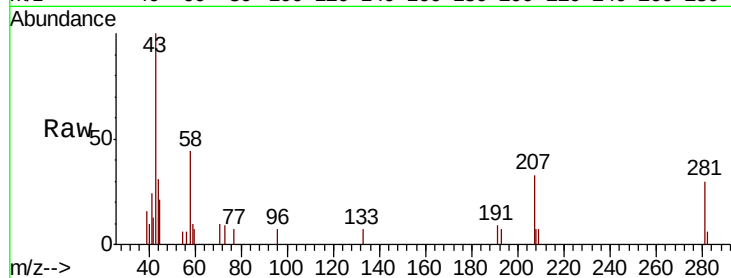
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 4.8 19.6 29.4#

61 0.0 18.6 28.0#

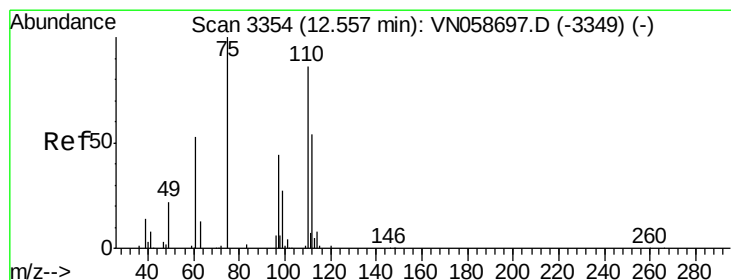
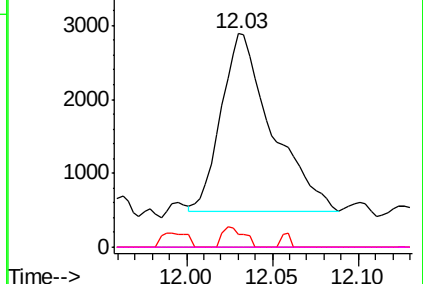
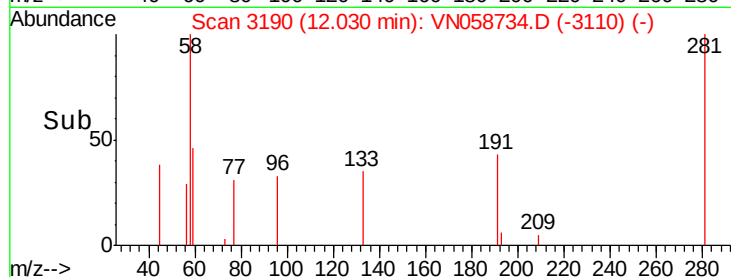


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.583 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058734.D

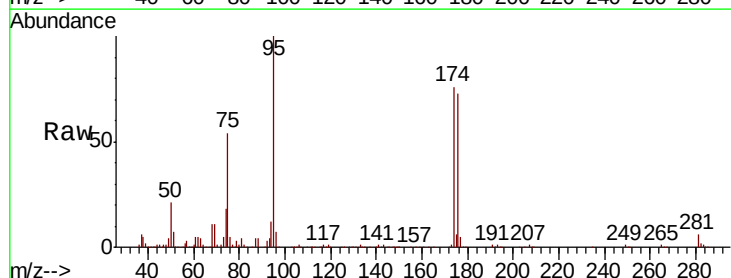
Acq: 12 Oct 2019 4:07

Tgt Ion: 75 Resp: 155436

Ion Ratio Lower Upper

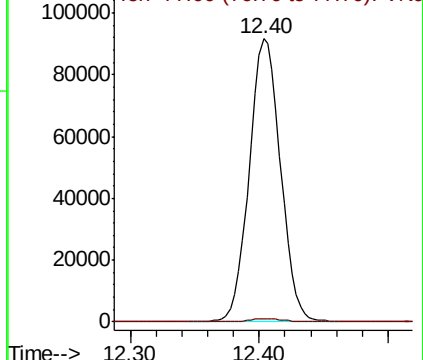
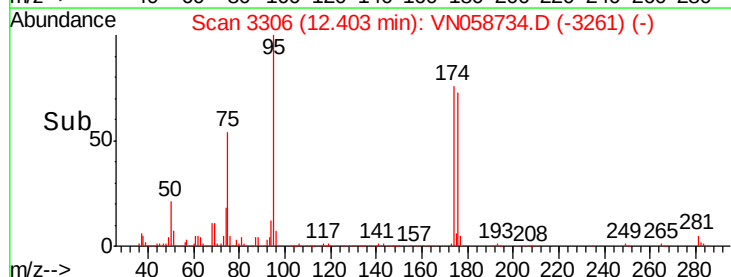
75 100

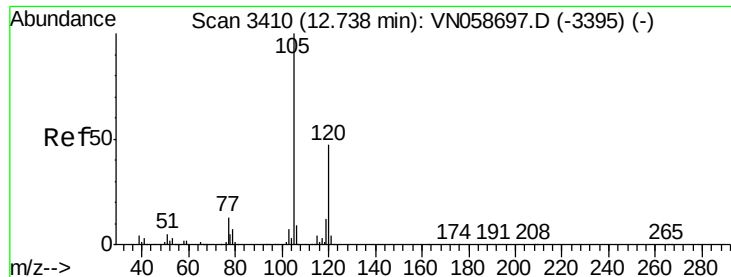
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.310 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :

MSVOA_N

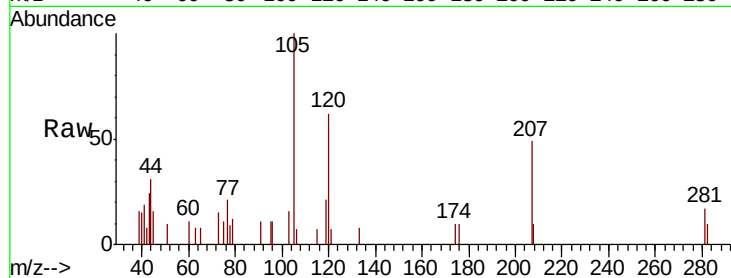
ClientSampled :

Tot Ion:105 Resp: 4748

Ion Ratio Lower Upper

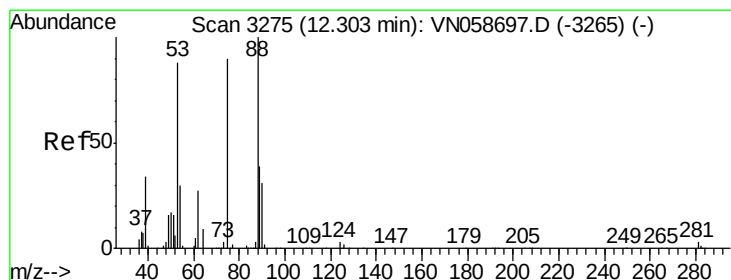
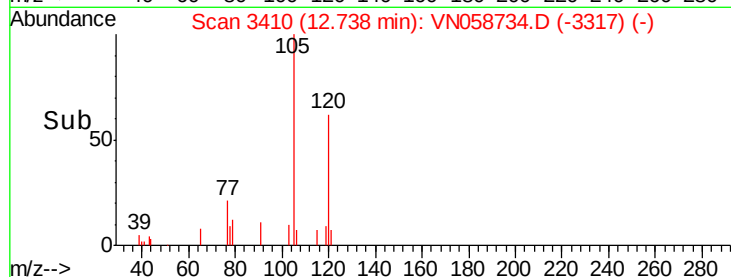
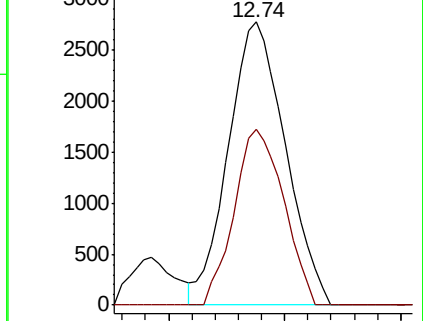
105 100

120 53.6 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 76.564 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

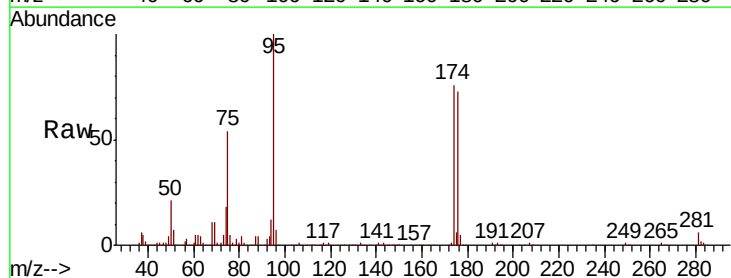
Tgt Ion: 75 Resp: 155436

Ion Ratio Lower Upper

75 100

53 0.1 78.4 117.6#

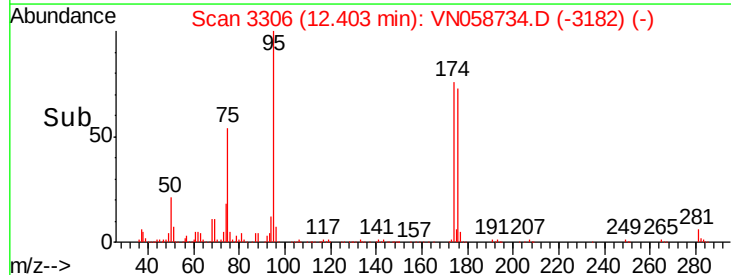
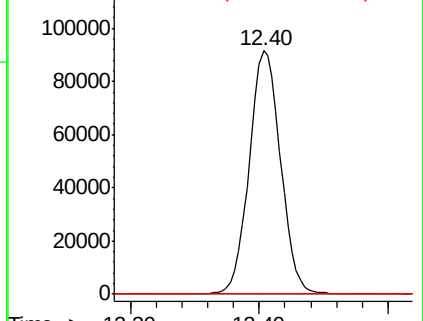
89 0.0 34.9 52.3#

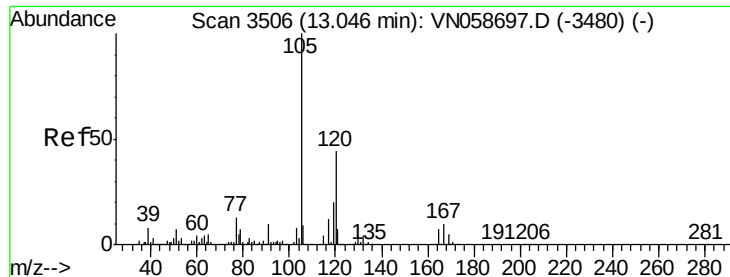


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.204 ug/l

RT: 13.05 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

Instrument :

MSVOA_N

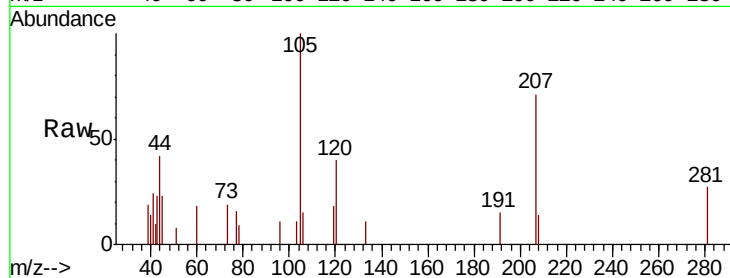
ClientSampled :

Tot Ion:105 Resp: 3110

Ion Ratio Lower Upper

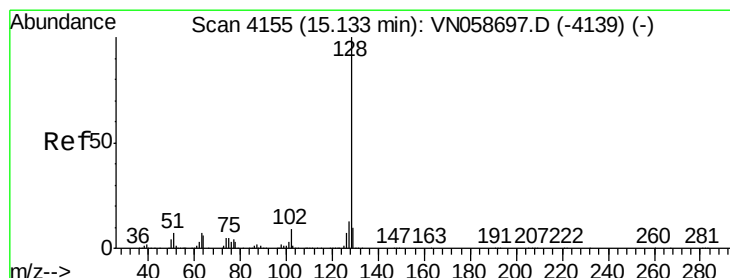
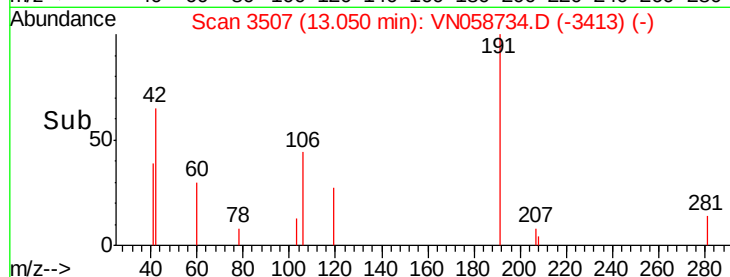
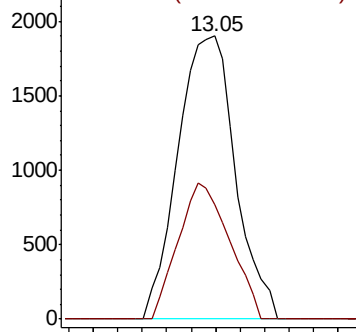
105 100

120 43.0 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 0.241 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058734.D

Acq: 12 Oct 2019 4:07

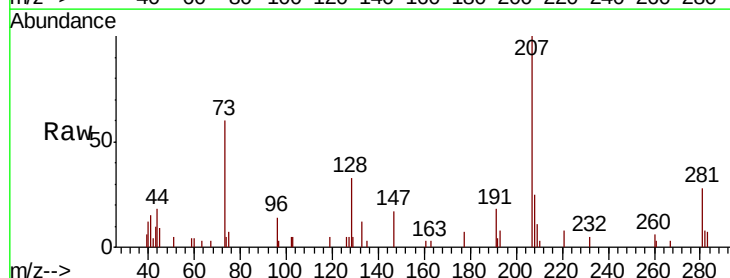
Tgt Ion:128 Resp: 3323

Ion Ratio Lower Upper

128 100

127 6.6 10.2 15.4#

129 11.3 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

