

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101619\
 Data File : VN058795.D
 Acq On : 16 Oct 2019 12:52
 Operator : JC/SP
 Sample : K5152-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

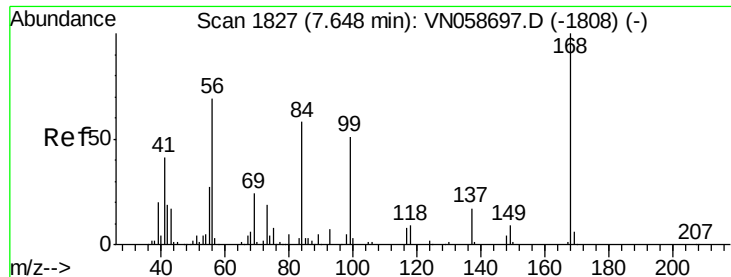
Quant Time: Oct 17 01:31:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	417599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	653528	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	601238	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236696	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	300551	51.41	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.82%		
35) Dibromofluoromethane	7.57	113	214106	53.04	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.08%		
50) Toluene-d8	10.08	98	838597	51.95	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.90%		
62) 4-Bromofluorobenzene	12.40	95	276154	45.19	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.38%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	17926	7.406	ug/l	98
18) Methyl Acetate	4.31	43	2834	0.462	ug/l #	91
20) Methylene Chloride	4.53	84	19589	3.873	ug/l	98
25) 2-Butanone	6.83	43	903	0.258	ug/l #	50
31) Cyclohexane	7.65	56	9915	1.156	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	34891	5.280	ug/l #	50
38) Carbon Tetrachloride	7.65	117	41325	6.417	ug/l #	17
43) Isopropyl Acetate	8.15	43	96286	8.458	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1688	0.332	ug/l #	45
48) Methyl methacrylate	9.17	41	5861	1.136	ug/l #	14
49) 1,4-Dioxane	9.26	88	116	1.453	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7424	1.161	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	37906	4.746	ug/l #	69
56) Ethyl methacrylate	10.54	69	1987	0.286	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6691	0.827	ug/l #	42
59) 2-Hexanone	10.76	43	106657	21.587	ug/l #	52
71) Bromoform	12.40	173	682	0.206	ug/l #	1
74) N-amyl acetate	12.03	43	5026	0.653	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	148119	28.525	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	8935	0.611	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	148119	76.410	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.05	105	6245	0.430	ug/l	98
90) Hexachloroethane	13.90	117	859	0.320	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.26	75	422	0.320	ug/l #	5
95) Naphthalene	15.13	128	21165	1.611	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

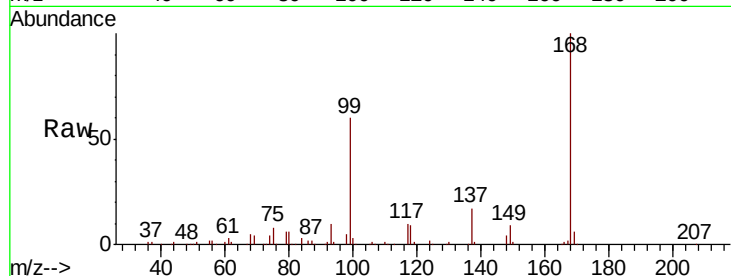
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 417599

Ion Ratio Lower Upper

168 100

99 60.1 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

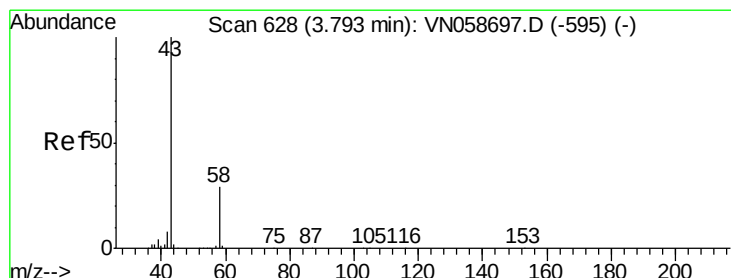
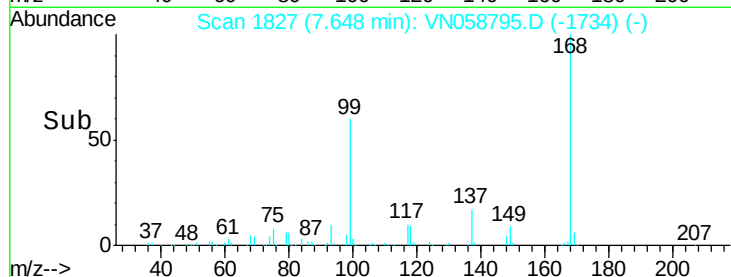
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 7.406 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058795.D

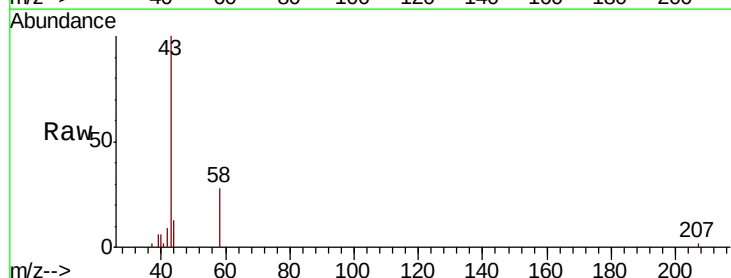
Acq: 16 Oct 2019 12:52

Tgt Ion: 43 Resp: 17926

Ion Ratio Lower Upper

43 100

58 28.1 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

8000

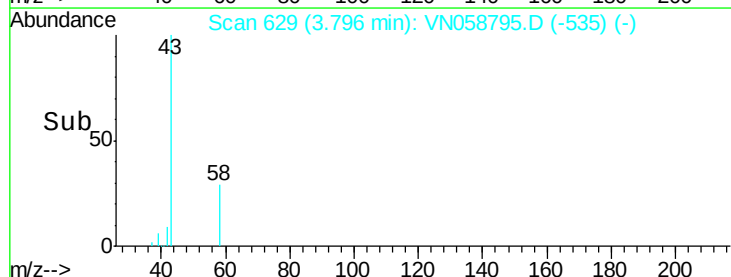
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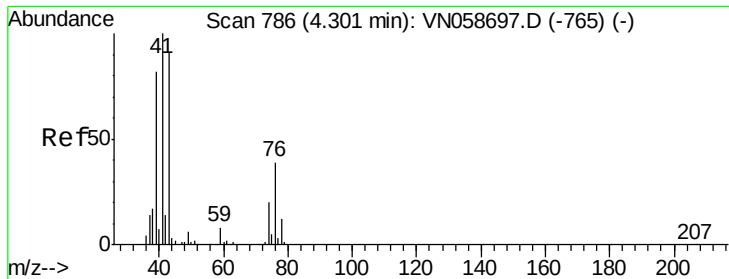
4000

2000

0

Time-->

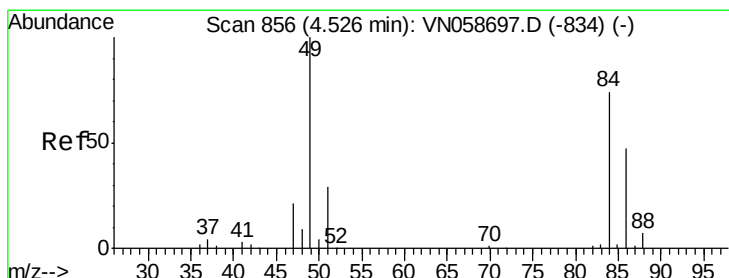
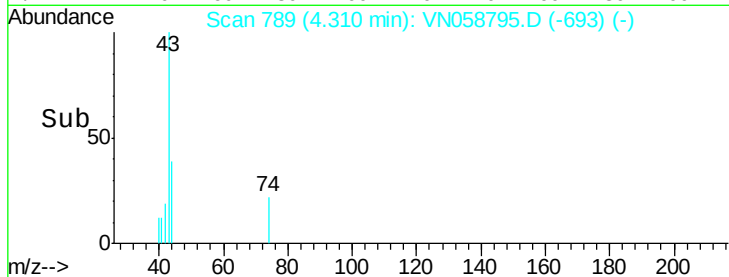
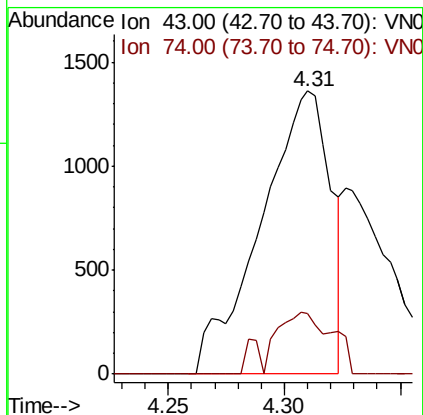
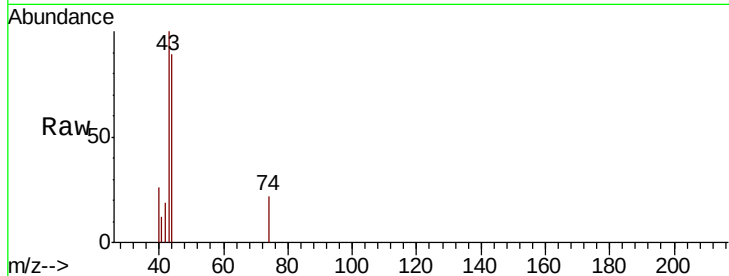




#18
Methyl Acetate
Concen: 0.462 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

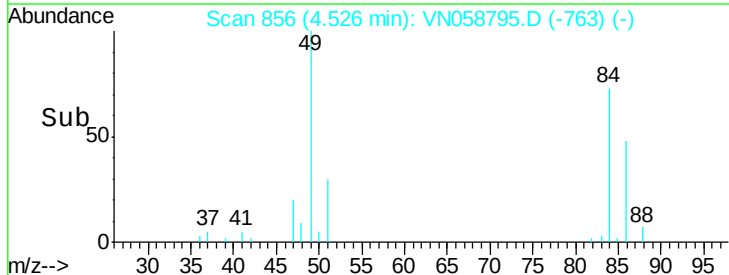
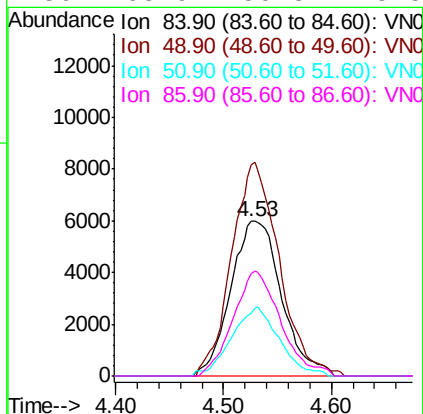
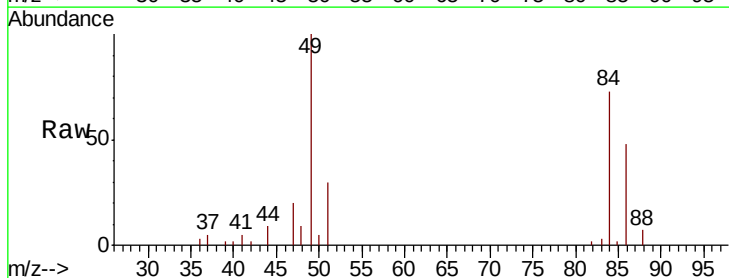
Instrument :
MSVOA_N
ClientSampleId :

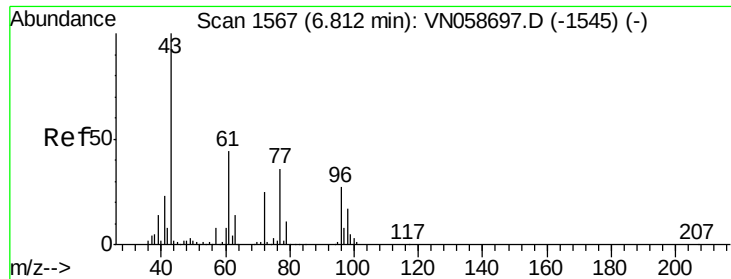
Tot Ion: 43 Resp: 2834
Ion Ratio Lower Upper
43 100
74 17.1 17.2 25.8#



#20
Methylene Chloride
Concen: 3.873 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Tgt Ion: 84 Resp: 19589
Ion Ratio Lower Upper
84 100
49 136.6 107.6 161.4
51 40.4 31.4 47.0
86 65.9 50.3 75.5





#25

2-Butanone

Concen: 0.258 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

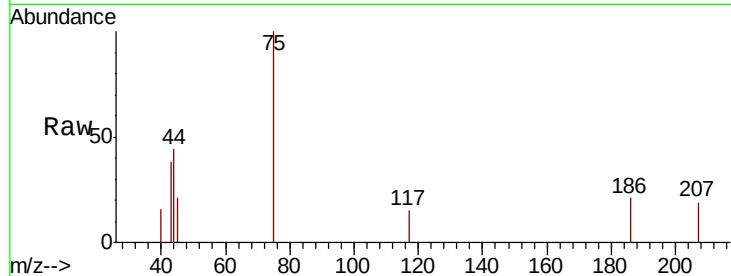
ClientSampleId :

Tot Ion: 43 Resp: 903

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.83

400

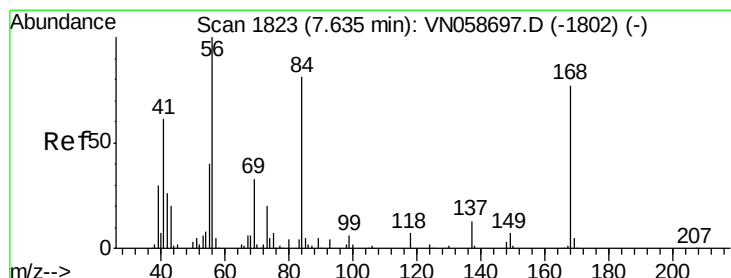
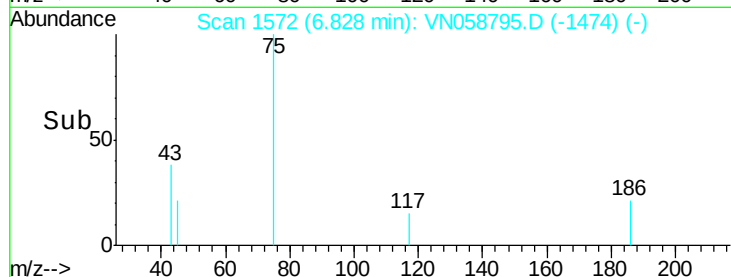
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.02 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

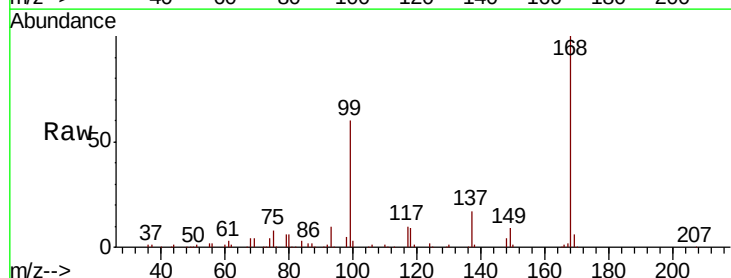
Tgt Ion: 56 Resp: 9915

Ion Ratio Lower Upper

56 100

69 163.3 26.2 39.4#

84 132.0 64.9 97.3#



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

8000

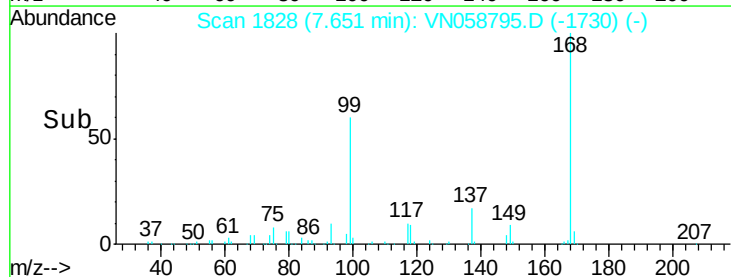
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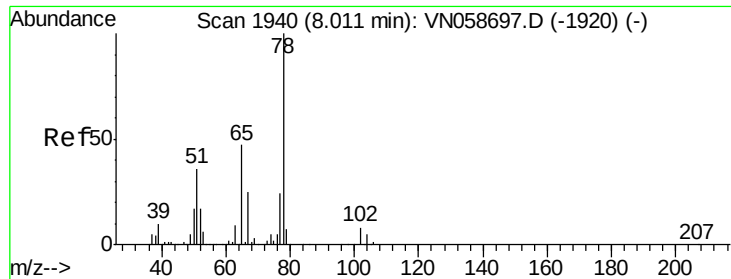
4000

2000

0

Time-->

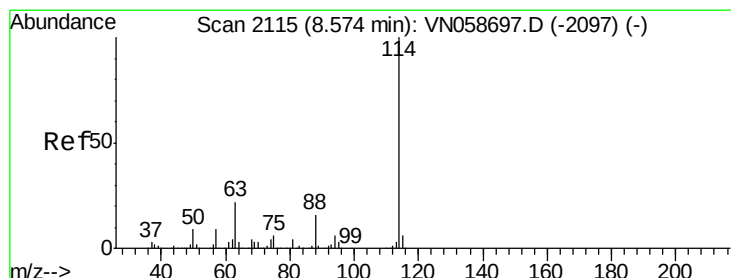
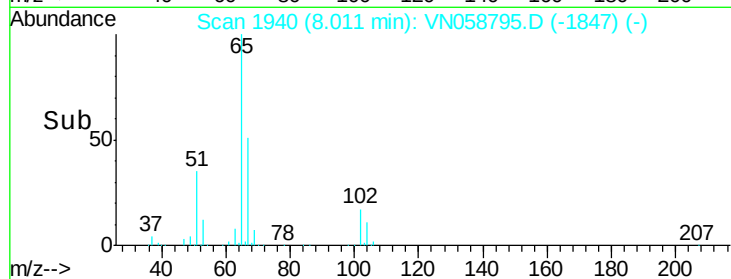
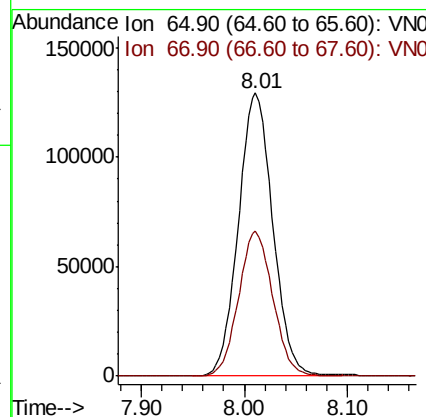
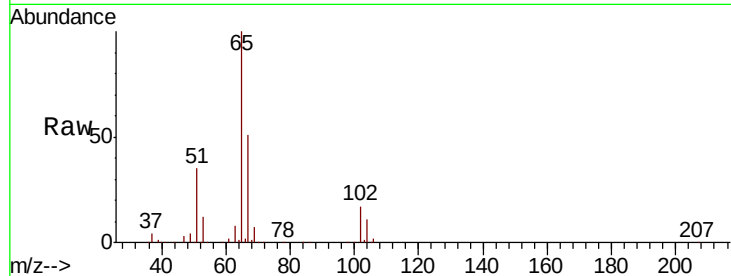




#33
 1,2-Dichloroethane-d4
 Concen: 51.409 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058795.D
 Acq: 16 Oct 2019 12:52

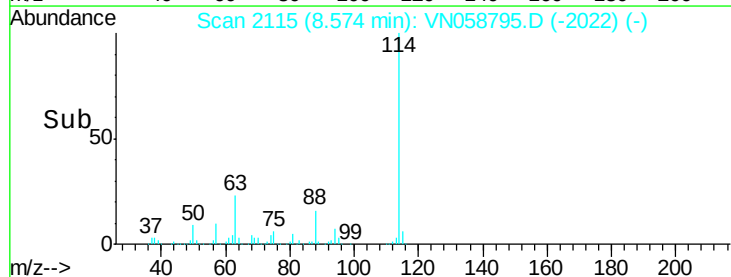
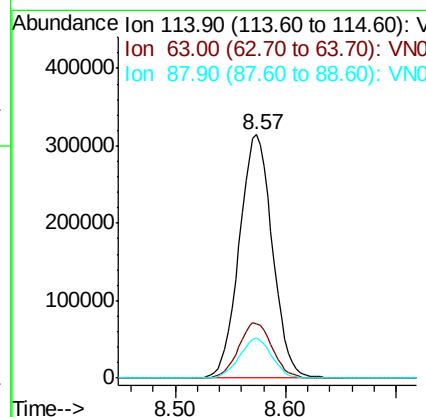
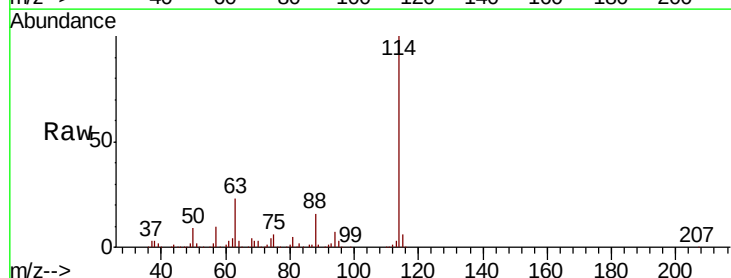
Instrument :
 MSVOA_N
 ClientSampled :

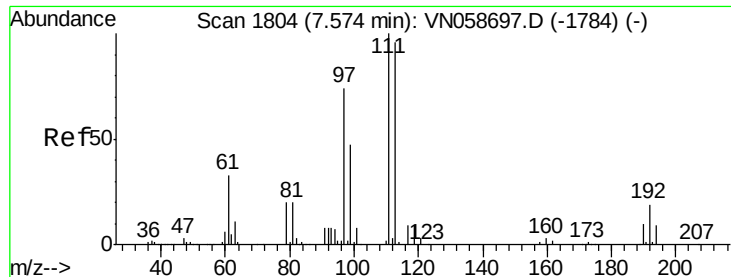
Tot Ion: 65 Resp: 300551
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058795.D
 Acq: 16 Oct 2019 12:52

Tgt Ion: 114 Resp: 653528
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.8
 88 16.3 0.0 32.0

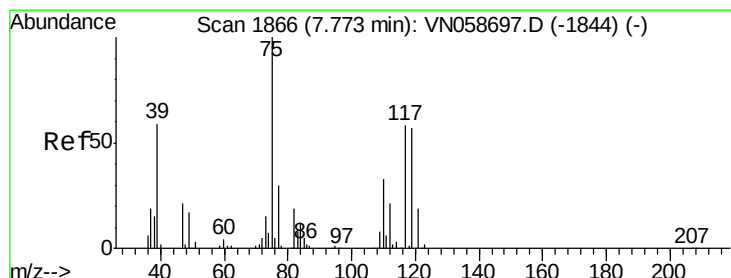
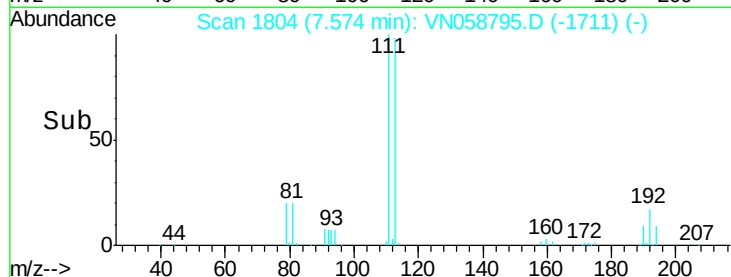
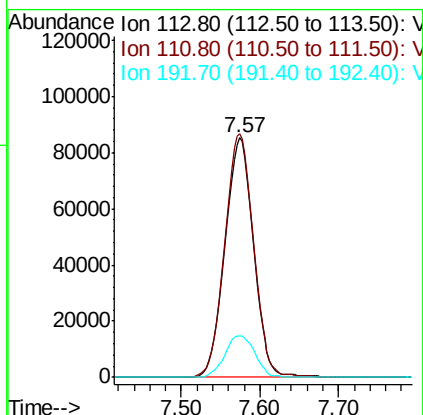
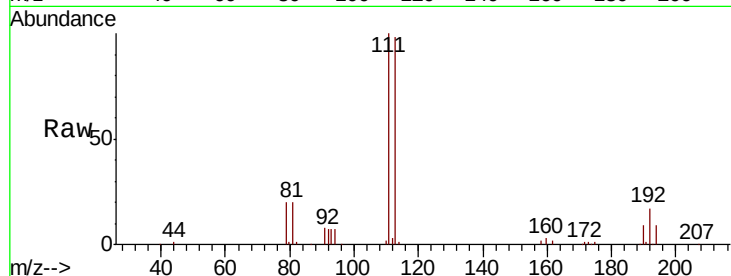




#35
 Dibromofluoromethane
 Concen: 53.040 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058795.D
 Acq: 16 Oct 2019 12:52

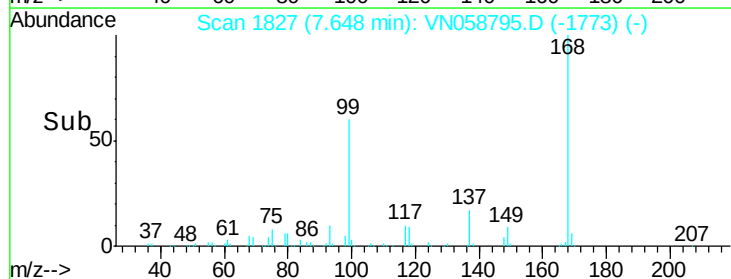
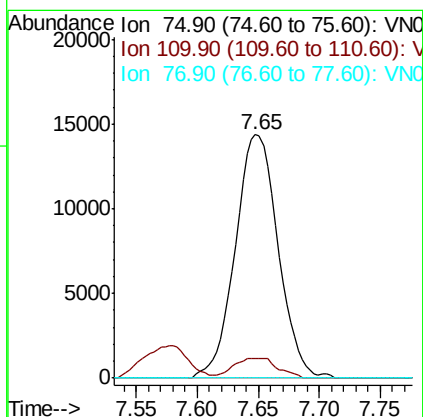
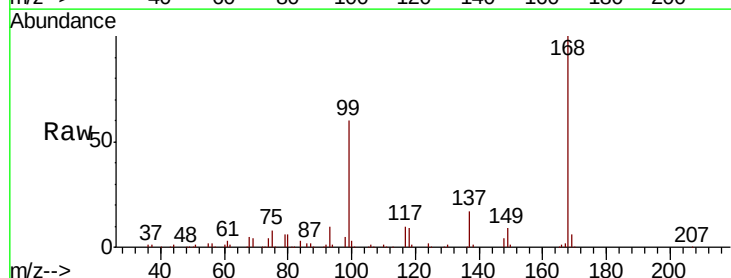
Instrument :
 MSVOA_N
 ClientSampled :

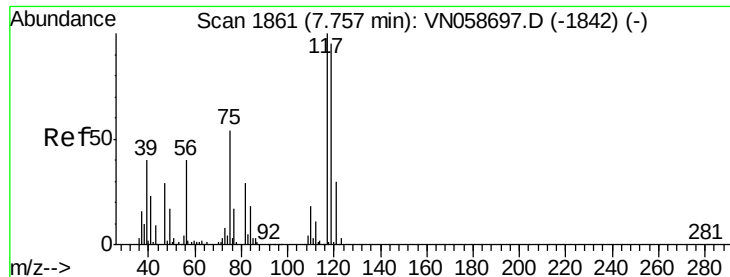
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.3	123.5
192	18.4	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.280 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058795.D
 Acq: 16 Oct 2019 12:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.6	49.8#
77	0.0	24.6	37.0#

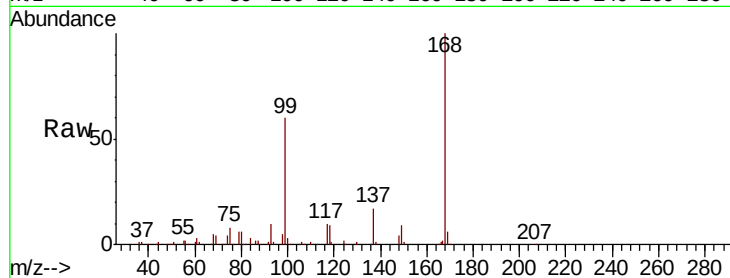




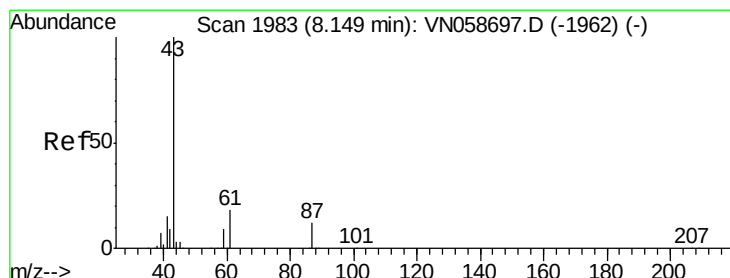
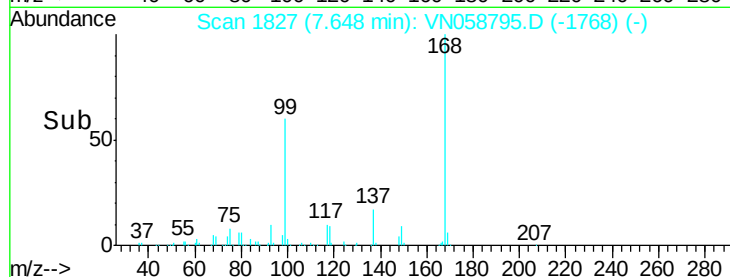
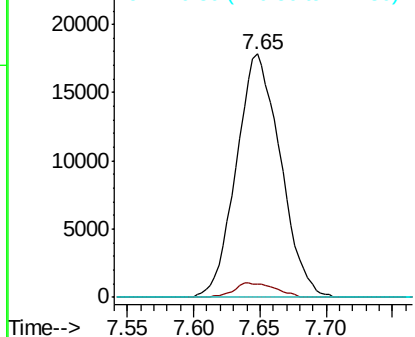
#38
Carbon Tetrachloride
Concen: 6.417 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.7	113.5#
121	0.0	23.9	35.9#

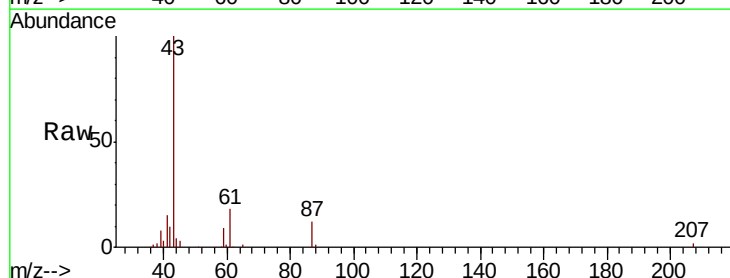


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

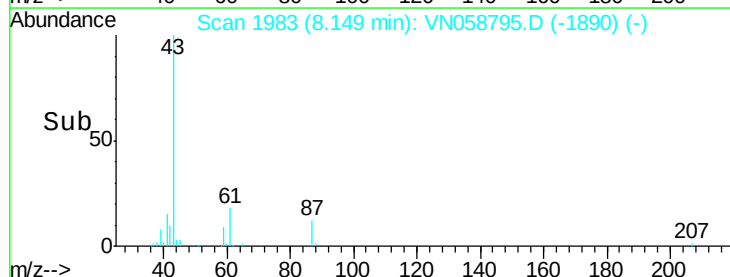
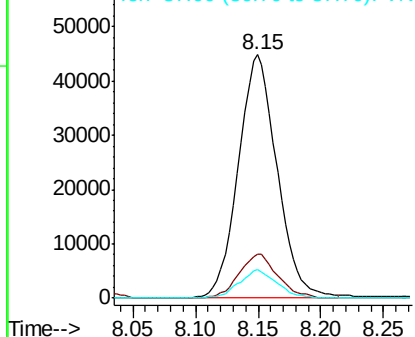


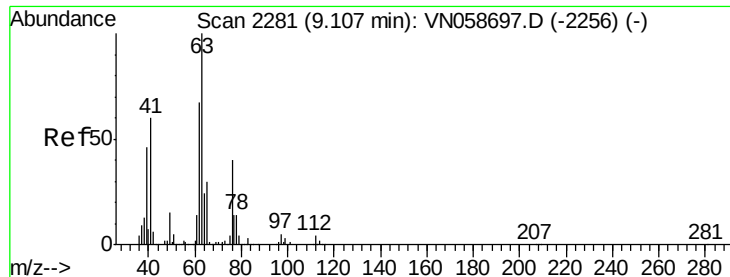
#43
Isopropyl Acetate
Concen: 8.458 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Tgt Ion	Ratio	Lower	Upper
43	100		
61	18.0	20.3	30.5#
87	11.2	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

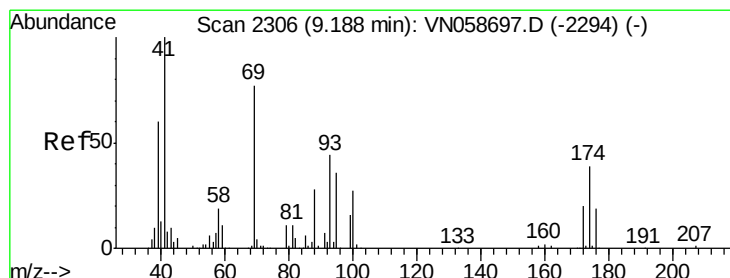
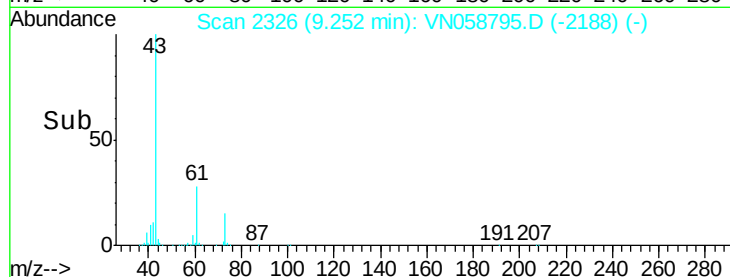
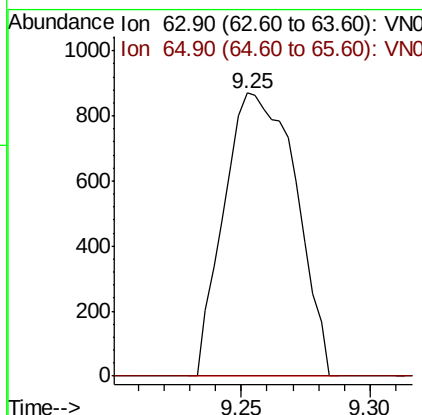
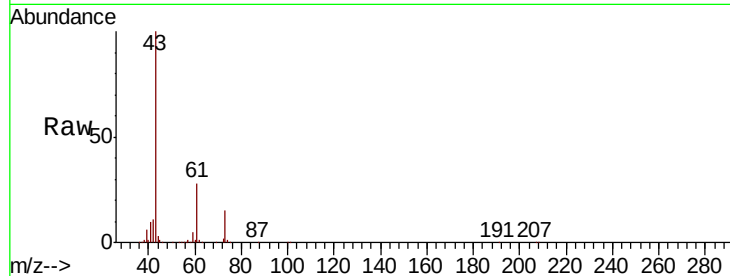




#45
 1,2-Dichloropropane
 Concen: 0.332 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.14 min
 Lab File: VN058795.D
 Acq: 16 Oct 2019 12:52

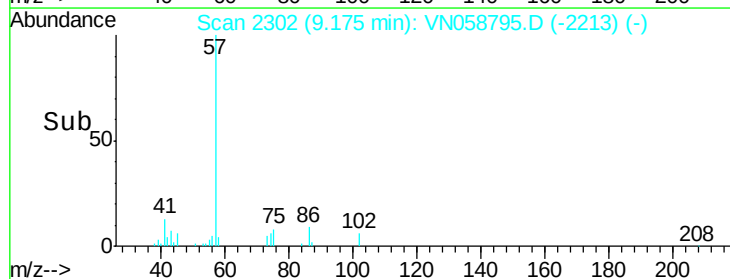
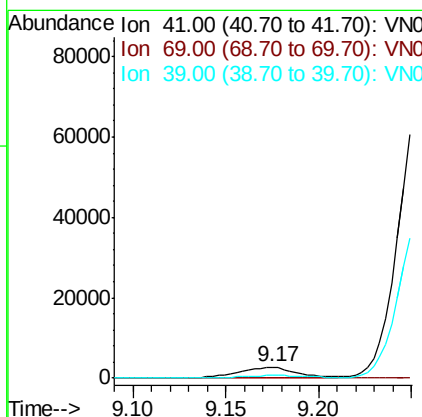
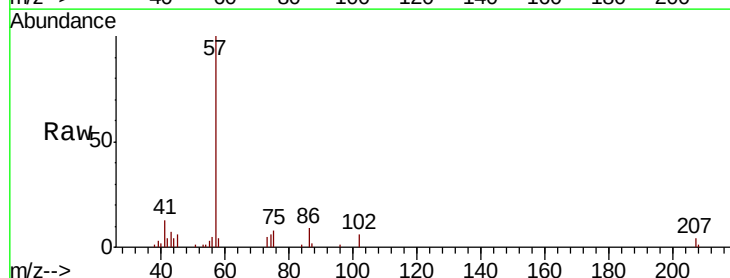
Instrument :
 MSVOA_N
 ClientSampleId :

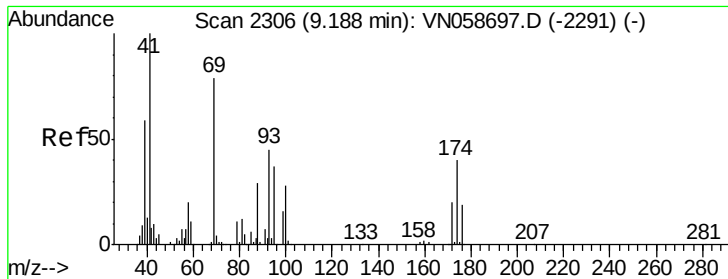
Tot Ion: 63 Resp: 1688
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.1 36.1#



#48
 Methyl methacrylate
 Concen: 1.136 ug/l
 RT: 9.17 min Scan# 2302
 Delta R.T. -0.01 min
 Lab File: VN058795.D
 Acq: 16 Oct 2019 12:52

Tgt Ion: 41 Resp: 5861
 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: 1.453 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :
MSVOA_N
ClientSampled :

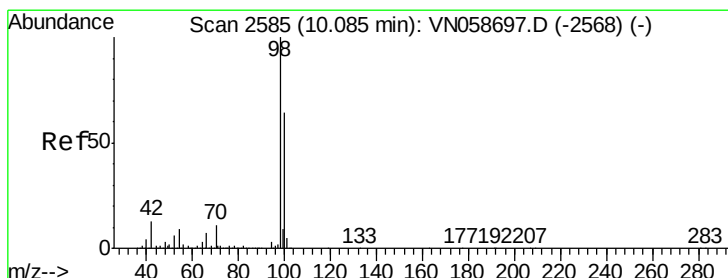
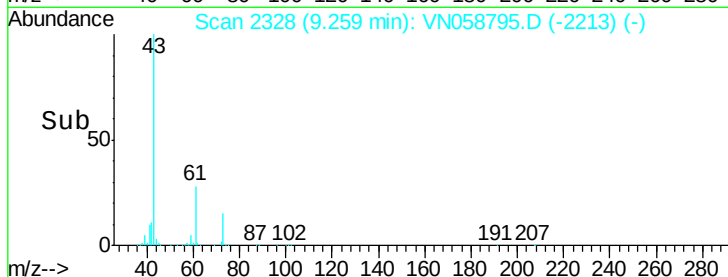
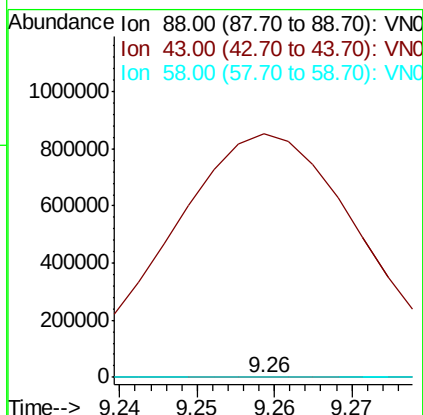
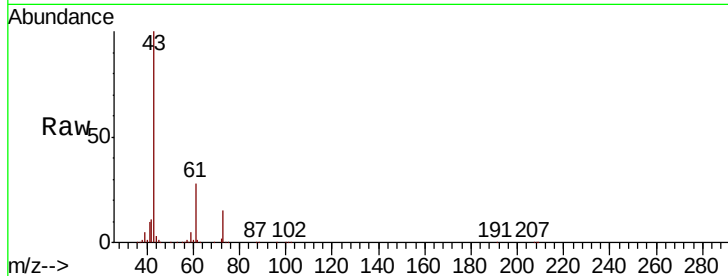
Tot Ion: 88 Resp: 116

Ion Ratio Lower Upper

88 100

43 1345797.4 28.6 43.0#

58 6031.9 57.2 85.8#



#50

Toluene-d8

Concen: 51.951 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058795.D

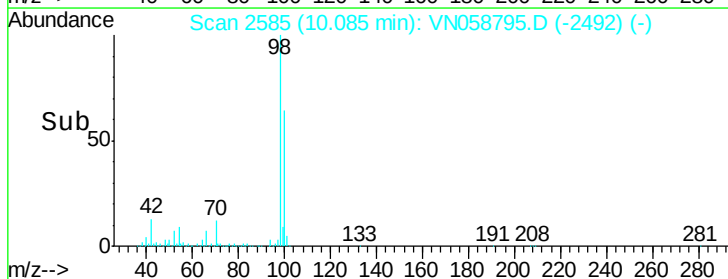
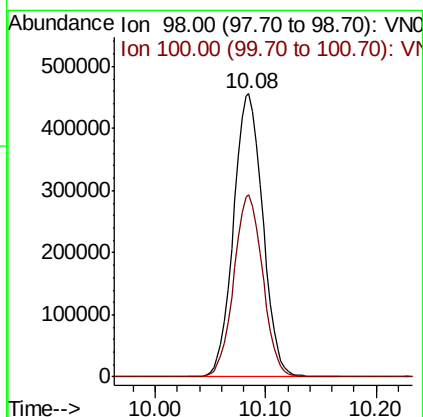
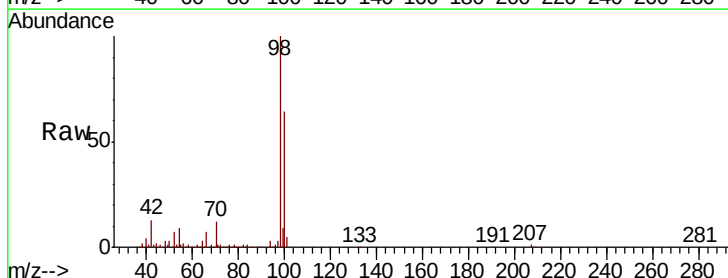
Acq: 16 Oct 2019 12:52

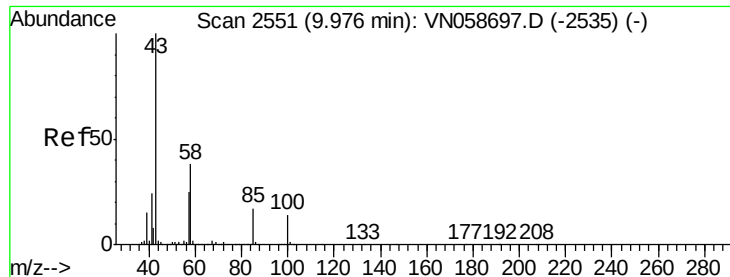
Tgt Ion: 98 Resp: 838597

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.161 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

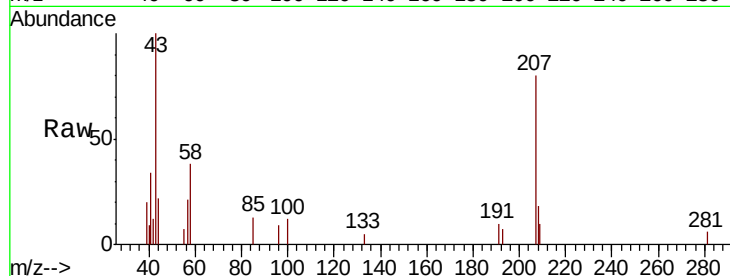
ClientSampleId :

Tot Ion: 43 Resp: 7424

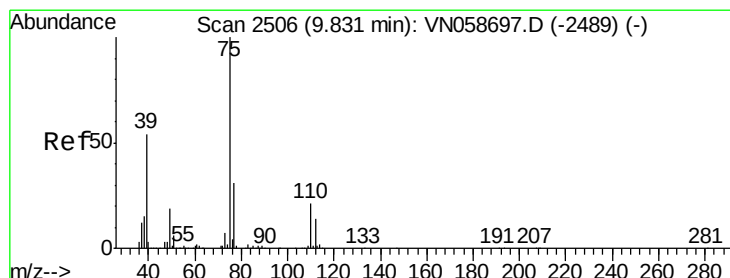
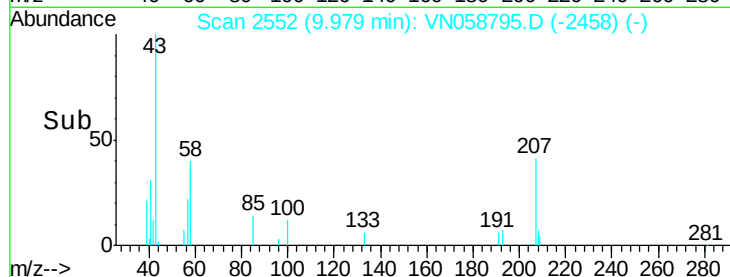
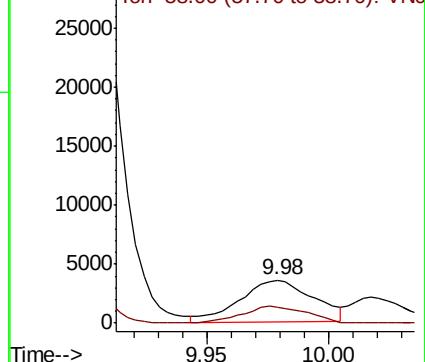
Ion Ratio Lower Upper

43 100

58 35.1 30.3 45.5



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



#54

cis-1,3-Dichloropropene

Concen: 4.746 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

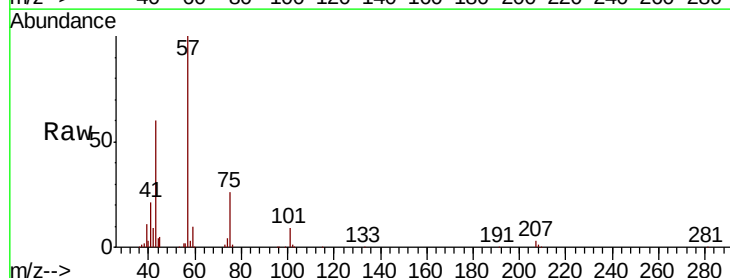
Tgt Ion: 75 Resp: 37906

Ion Ratio Lower Upper

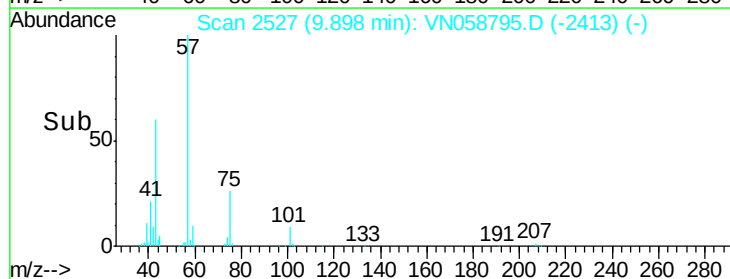
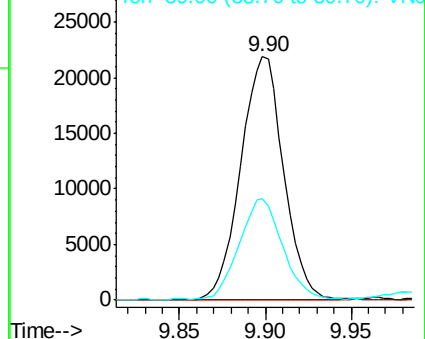
75 100

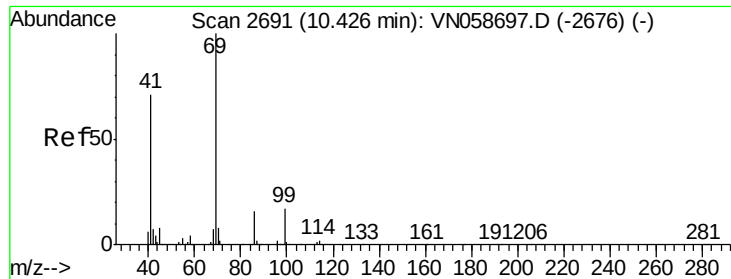
77 0.0 24.4 36.6#

39 41.8 43.1 64.7#



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





#56

Ethyl methacrylate

Concen: 0.286 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

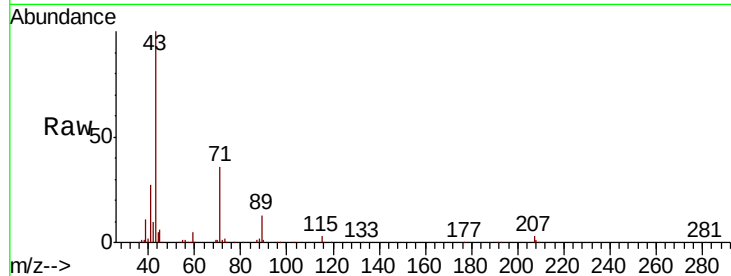
Tot Ion: 69 Resp: 1987

Ion Ratio Lower Upper

69 100

41 4436.9 56.8 85.2#

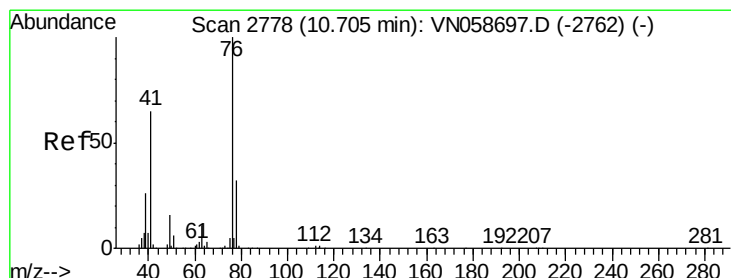
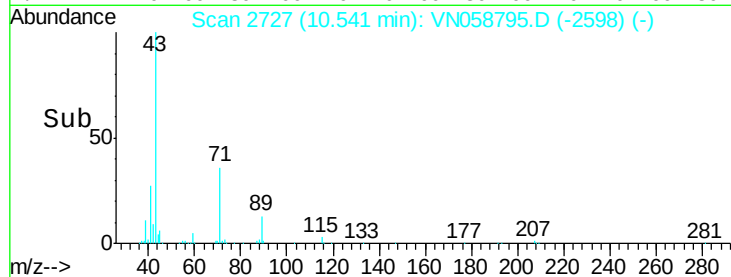
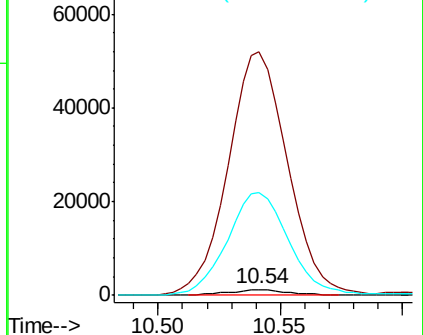
39 1942.1 32.5 48.7#



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: 0.827 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058795.D

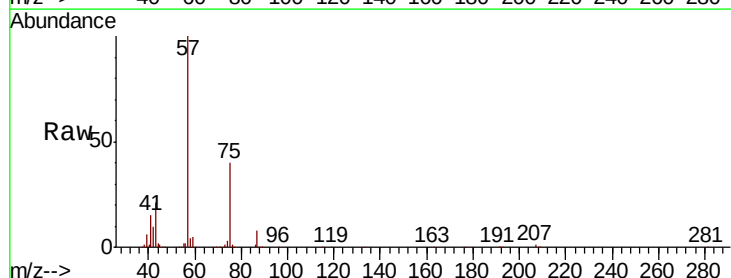
Acq: 16 Oct 2019 12:52

Tgt Ion: 76 Resp: 6691

Ion Ratio Lower Upper

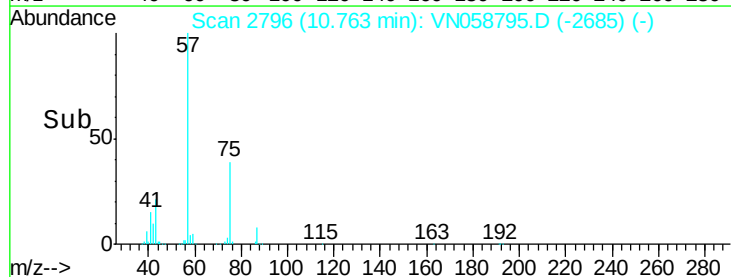
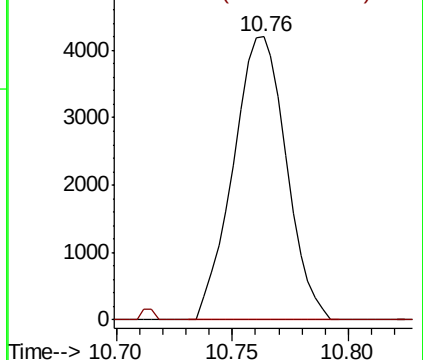
76 100

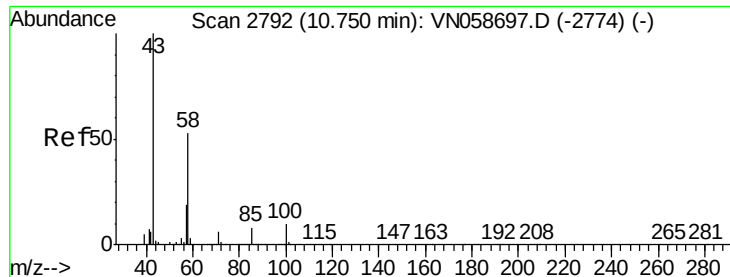
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 21.587 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

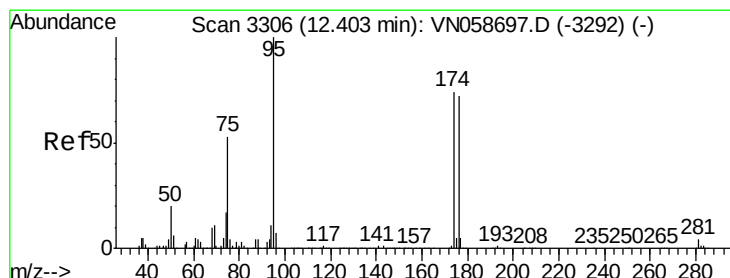
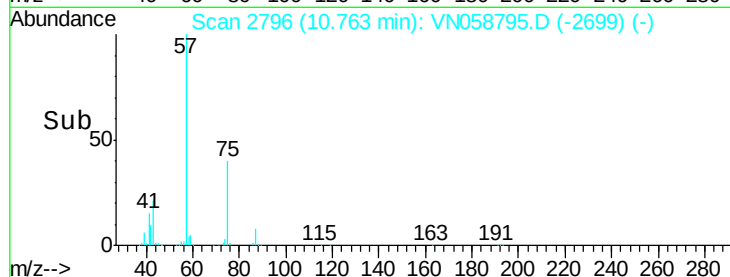
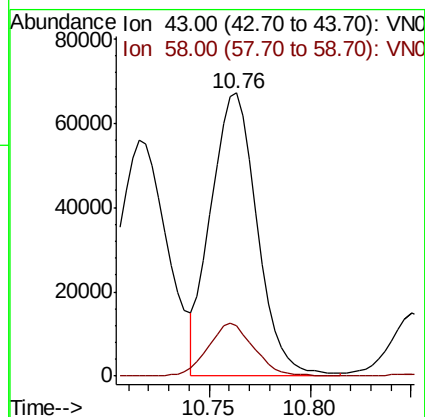
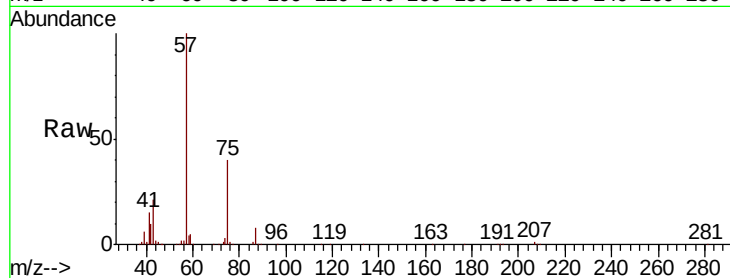
ClientSampled :

Tot Ion: 43 Resp: 106657

Ion Ratio Lower Upper

43 100

58 18.7 26.1 78.3#



#62

4-Bromofluorobenzene

Concen: 45.195 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

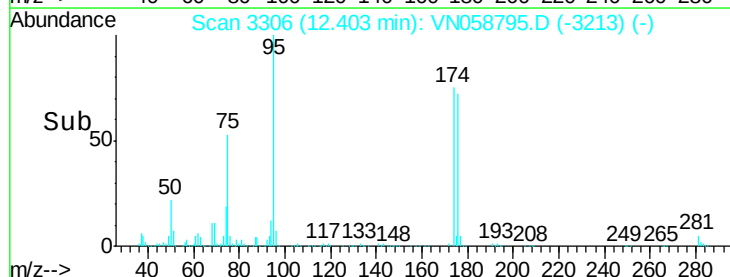
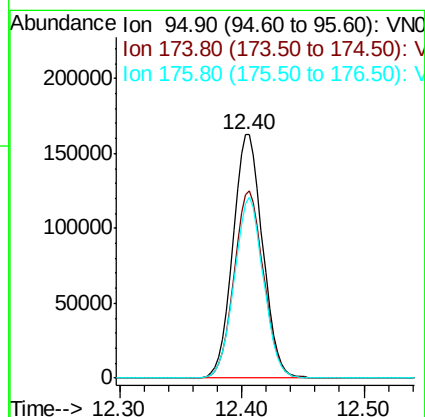
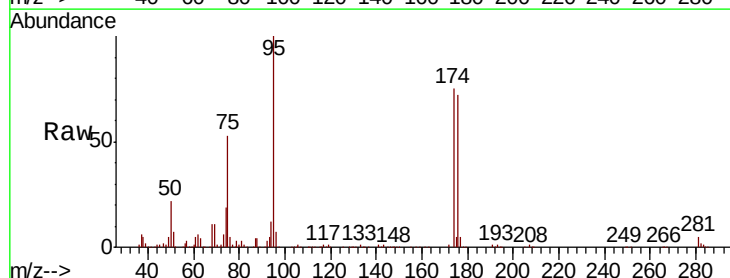
Tgt Ion: 95 Resp: 276154

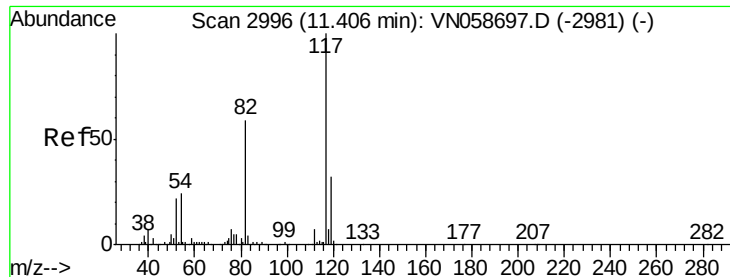
Ion Ratio Lower Upper

95 100

174 76.4 0.0 150.4

176 72.8 0.0 146.8

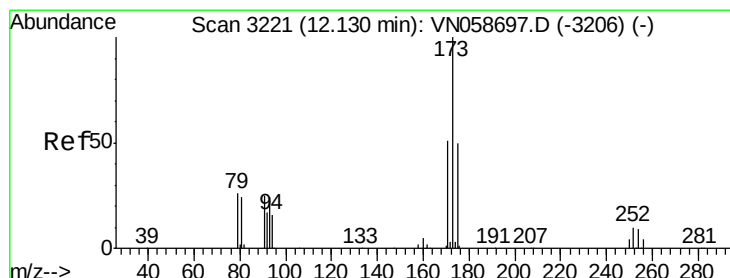
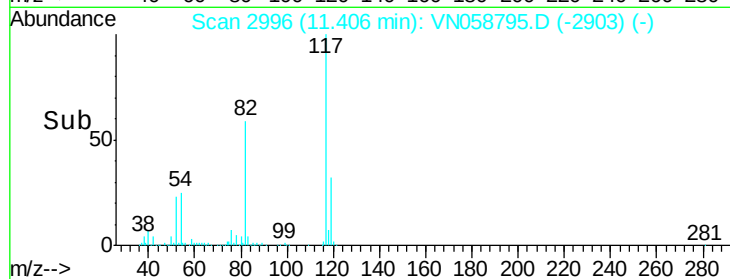
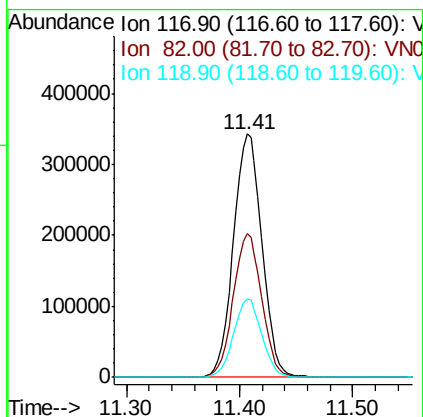
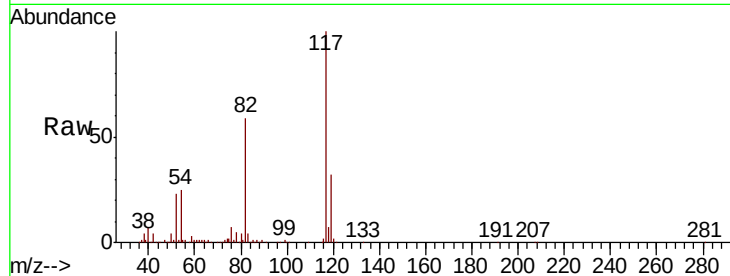




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

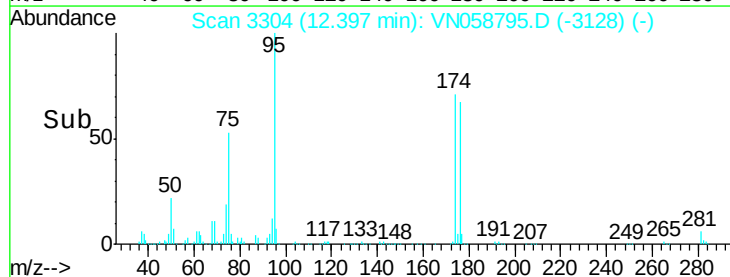
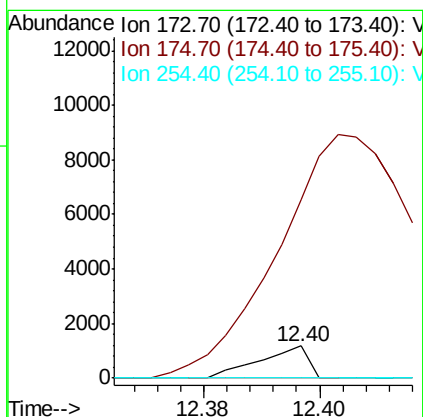
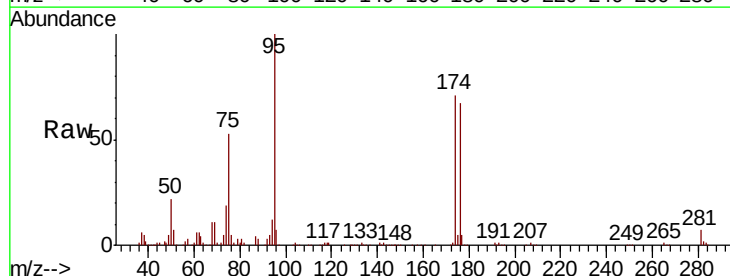
Instrument :
MSVOA_N
ClientSampled :

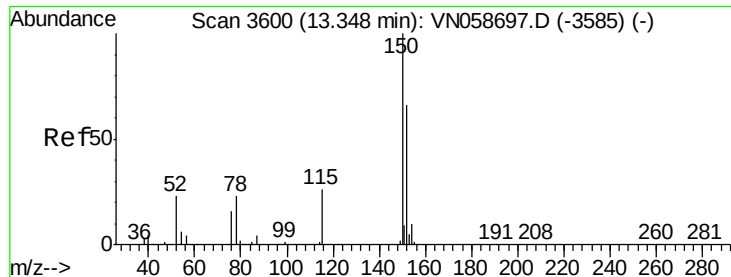
Tot Ion:117 Resp: 601238
Ion Ratio Lower Upper
117 100
82 59.1 47.0 70.4
119 32.4 25.4 38.2



#71
Bromoform
Concen: 0.206 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Tgt Ion:173 Resp: 682
Ion Ratio Lower Upper
173 100
175 1912.9 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

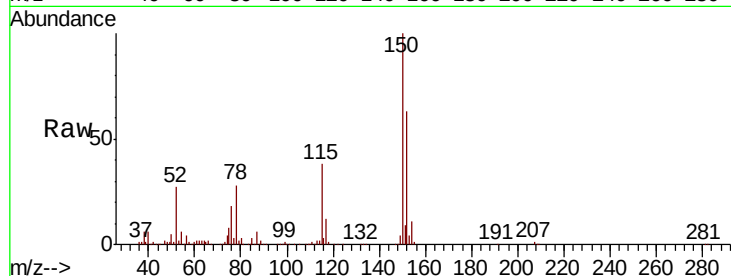
Tot Ion:152 Resp: 236696

Ion Ratio Lower Upper

152 100

115 61.2 30.4 91.2

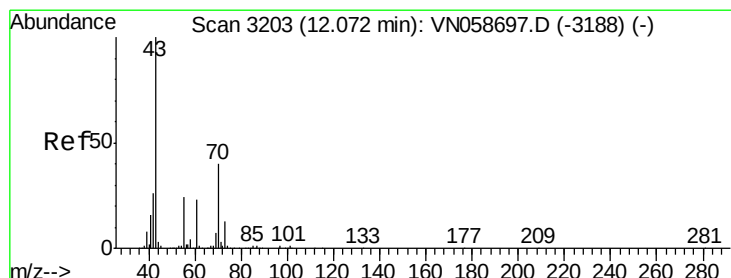
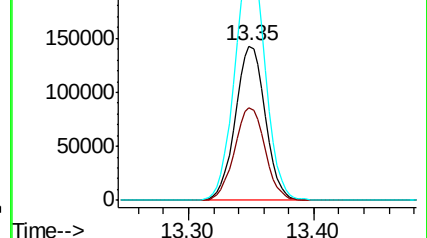
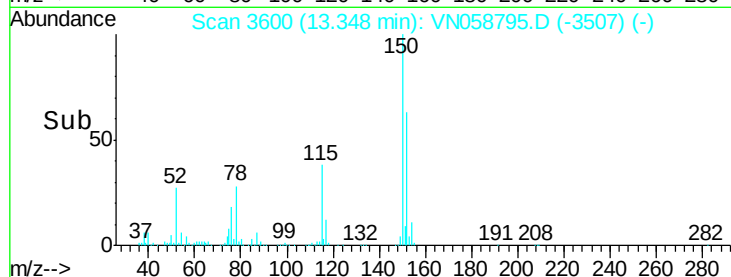
150 159.0 0.0 345.4



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: 0.653 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Tgt Ion: 43 Resp: 5026

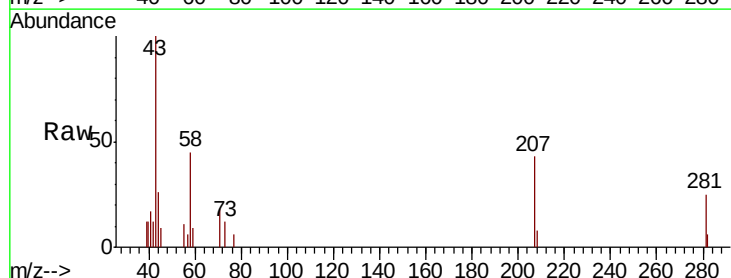
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 5.4 19.6 29.4#

61 0.0 18.6 28.0#

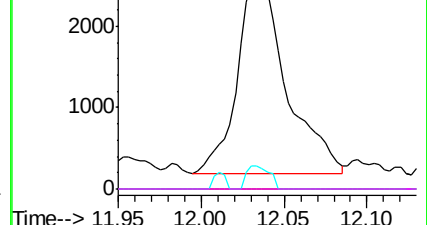
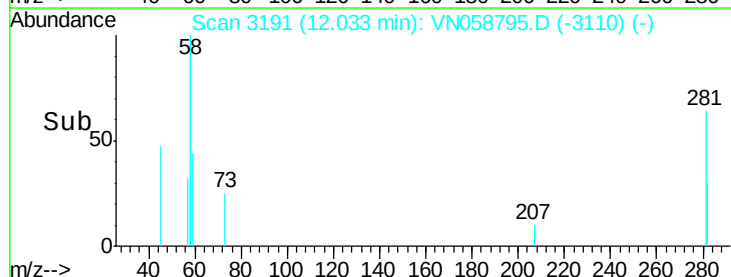


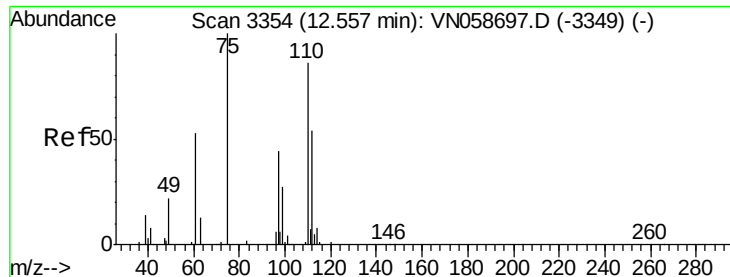
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.525 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

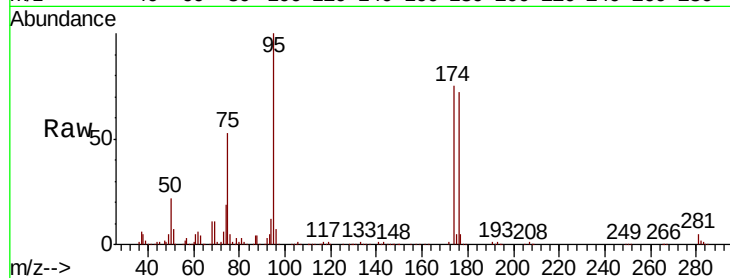
ClientSampleId :

Tot Ion: 75 Resp: 148119

Ion Ratio Lower Upper

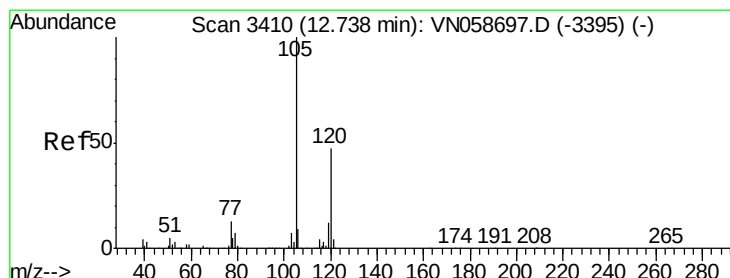
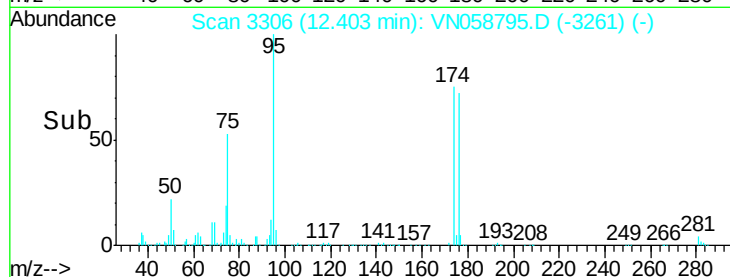
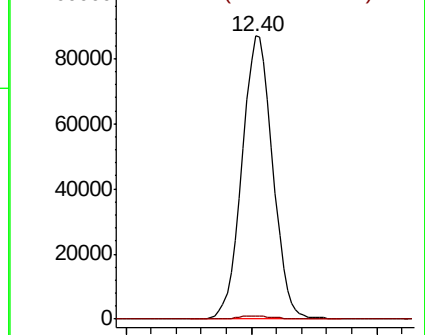
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058697.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN058697.D (-3349) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.611 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058795.D

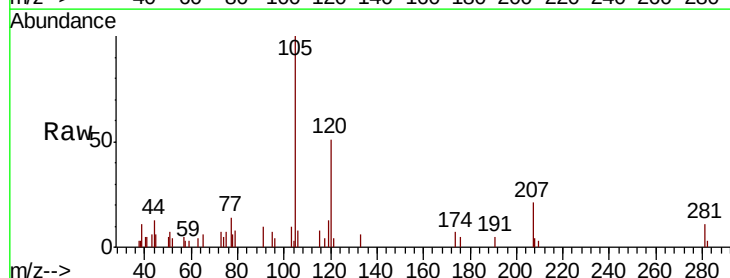
Acq: 16 Oct 2019 12:52

Tgt Ion: 105 Resp: 8935

Ion Ratio Lower Upper

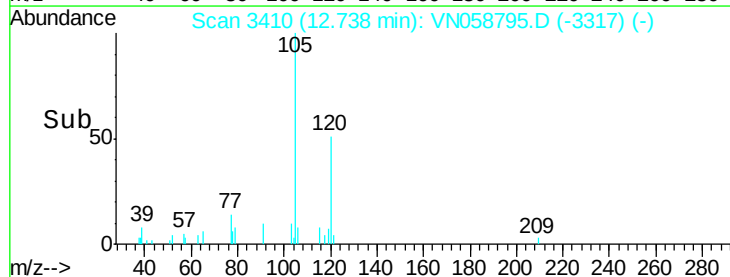
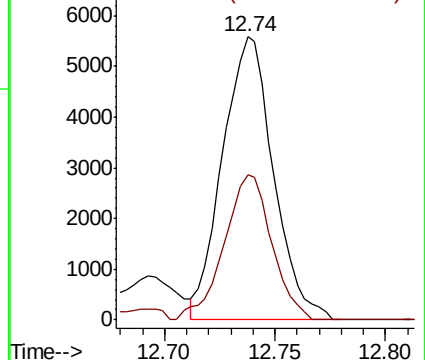
105 100

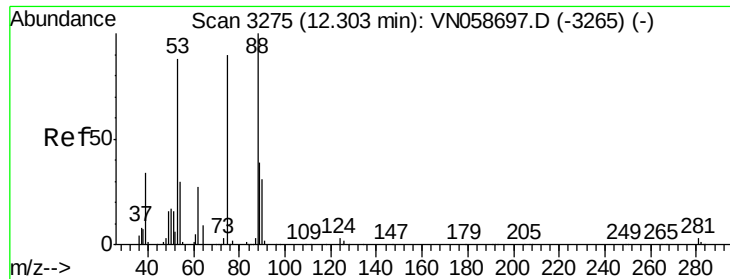
120 47.8 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): VN058697.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN058697.D (-3395) (-)

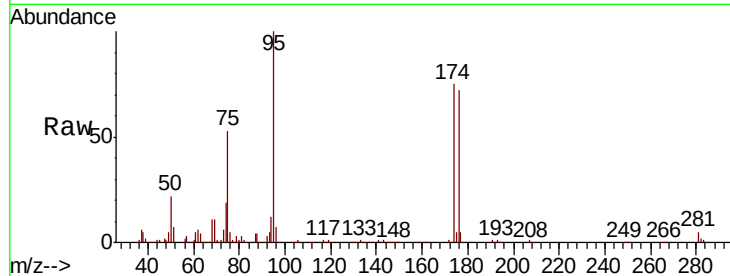




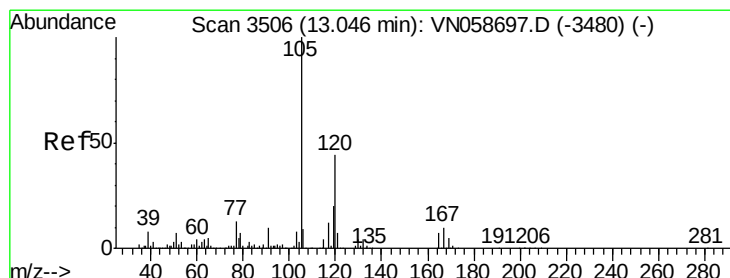
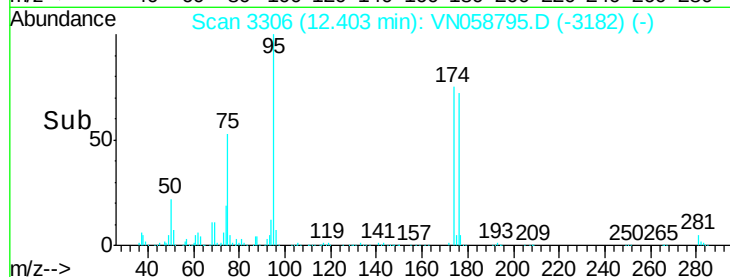
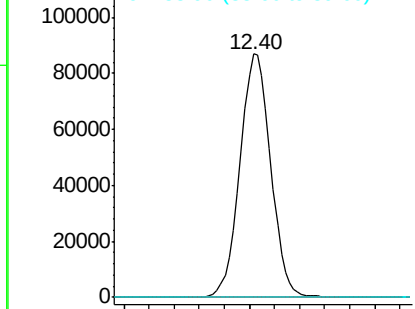
#81
trans-1,4-Dichloro-2-butene
Concen: 76.410 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 148119
Ion Ratio Lower Upper
75 100
53 0.0 78.4 117.6#
89 0.1 34.9 52.3#

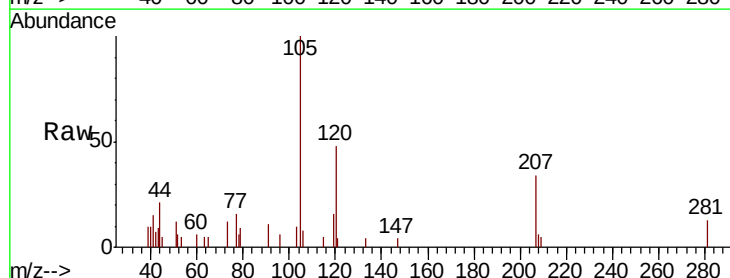


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

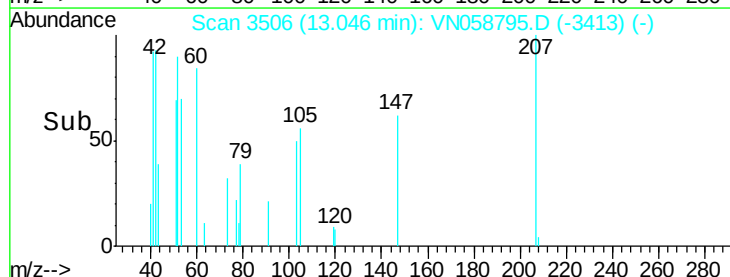
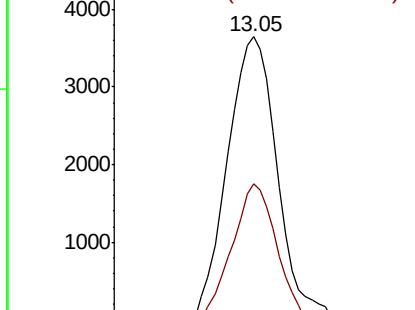


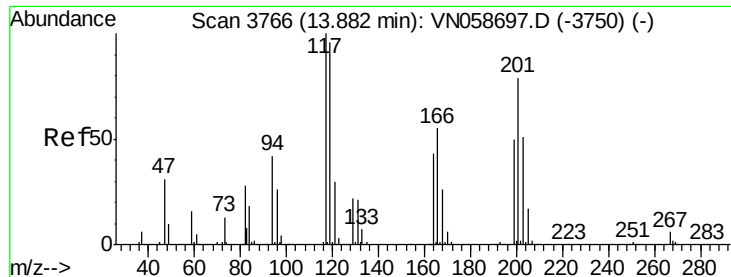
#84
1,2,4-Trimethylbenzene
Concen: 0.430 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Tgt Ion: 105 Resp: 6245
Ion Ratio Lower Upper
105 100
120 42.7 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

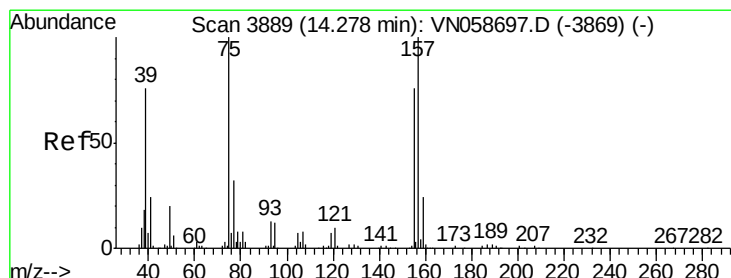
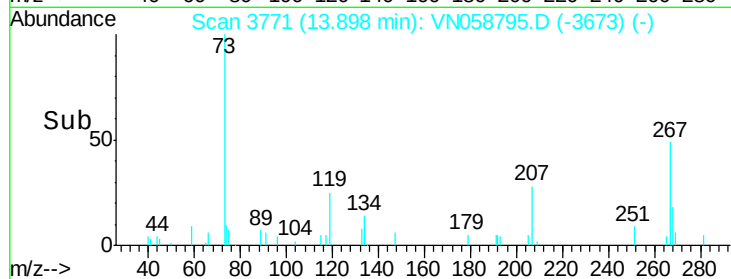
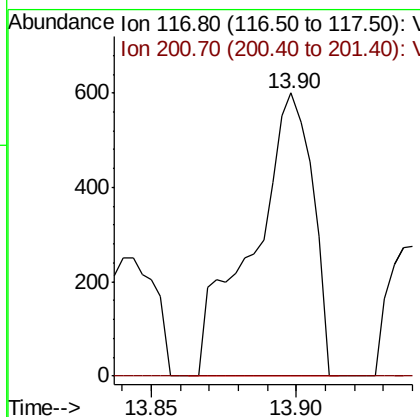
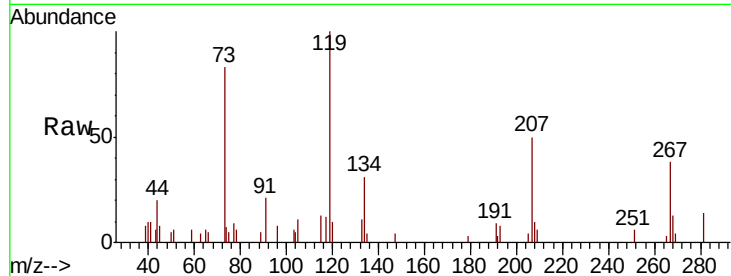




#90
Hexachloroethane
Concen: 0.320 ug/l
RT: 13.90 min Scan# 3771
Delta R.T. 0.02 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

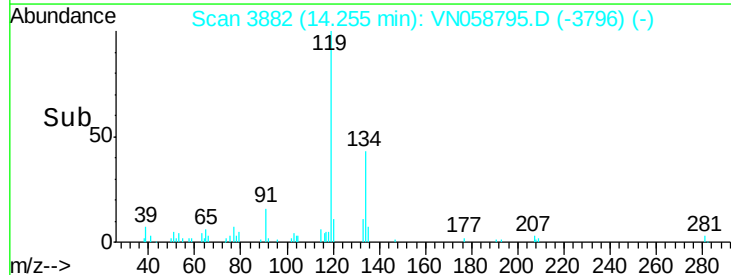
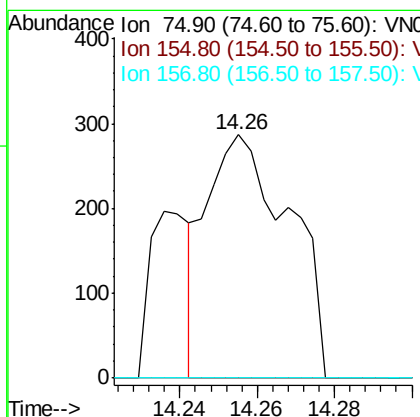
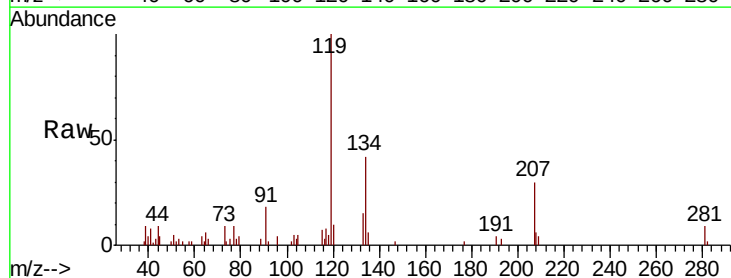
Instrument :
MSVOA_N
ClientSampled :

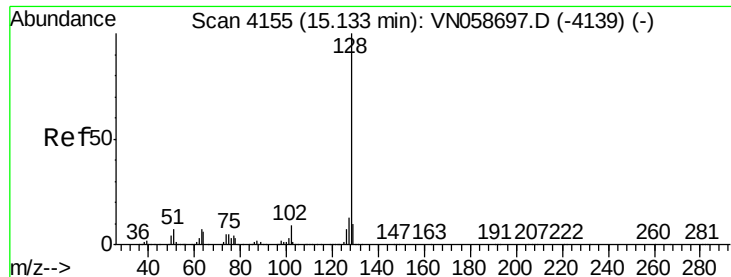
Tot Ion:117 Resp: 859
Ion Ratio Lower Upper
117 100
201 0.0 39.6 118.7#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.320 ug/l
RT: 14.26 min Scan# 3882
Delta R.T. -0.02 min
Lab File: VN058795.D
Acq: 16 Oct 2019 12:52

Tgt Ion: 75 Resp: 422
Ion Ratio Lower Upper
75 100
155 0.0 37.9 113.6#
157 0.0 49.4 148.2#





#95

Naphthalene

Concen: 1.611 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058795.D

Acq: 16 Oct 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

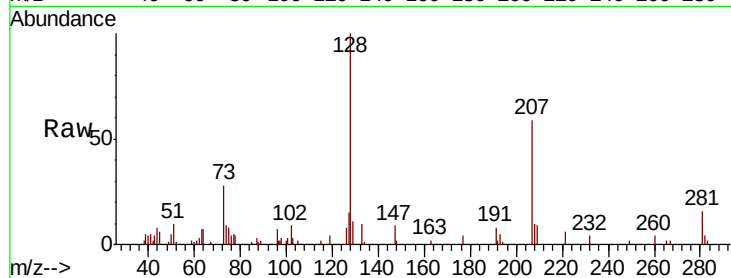
Tot Ion:128 Resp: 21165

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 12.3 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

