

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054299.D
 Acq On : 15 Mar 2019 9:07
 Operator : JC/SP
 Sample : K1902-02 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30276

Quant Time: Mar 15 09:57:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1409055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2396717	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2498243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1129869	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	715865	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
35) Dibromofluoromethane	7.59	113	713763	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	
50) Toluene-d8	10.09	98	2959385	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.40	95	1157344	57.94	ug/l	0.00
Spiked Amount			Recovery	=	115.88%	

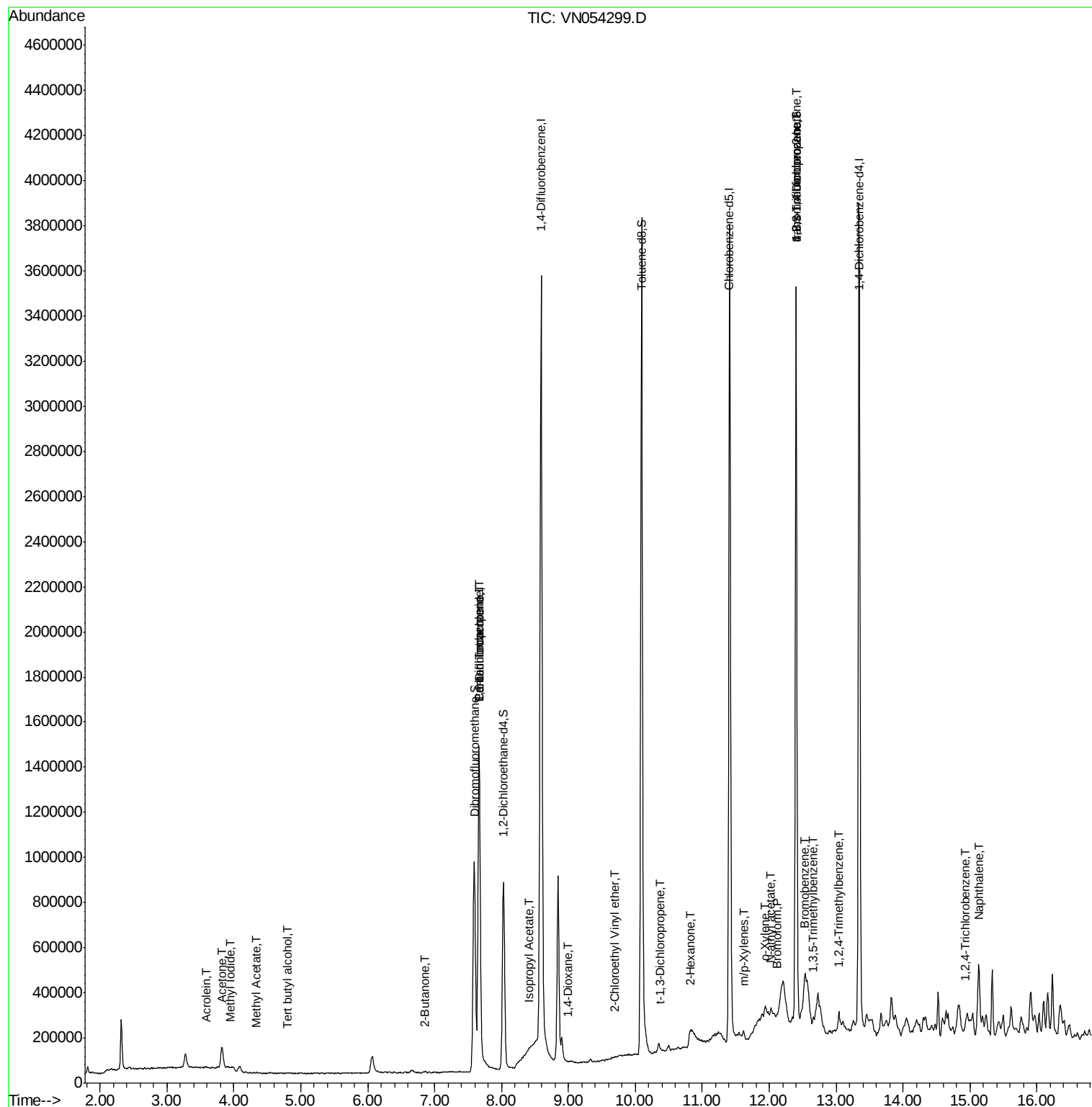
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	264	1.509	ug/l #	52
11) Tert butyl alcohol	4.81	59	430	0.419	ug/l #	61
13) Acrolein	3.59	56	1596	1.642	ug/l #	20
16) Acetone	3.82	43	152673	35.633	ug/l	97
18) Methyl Acetate	4.34	43	8057	0.929	ug/l #	70
25) 2-Butanone	6.85	43	3135	0.623	ug/l	90
31) Cyclohexane	7.66	56	21252	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	83403	3.779	ug/l #	48
38) Carbon Tetrachloride	7.66	117	120415	5.202	ug/l #	16
43) Isopropyl Acetate	8.41	43	192811	8.662	ug/l #	60
49) 1,4-Dioxane	8.99	88	69	0.432	ug/l #	27
53) t-1,3-Dichloropropene	10.38	75	334	1.999	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.69	63	306	16.866	ug/l #	44
59) 2-Hexanone	10.82	43	17294	2.206	ug/l	95
68) m/p-Xylenes	11.62	106	12455	0.350	ug/l	93
69) o-Xylene	11.95	106	7503	0.217	ug/l	73
71) Bromoform	12.12	173	1136	2.422	ug/l #	28
74) N-amyl acetate	12.03	43	5532	0.276	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	527499	31.748	ug/l #	100
77) Bromobenzene	12.54	156	111094	4.644	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.66	105	22217	0.295	ug/l	68
81) trans-1,4-Dichloro-2-buten	12.40	75	527499	108.529	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	51166	0.694	ug/l	89
93) 1,2,4-Trichlorobenzene	14.92	180	524	2.537	ug/l #	23
95) Naphthalene	15.13	128	267057	8.485	ug/l	99

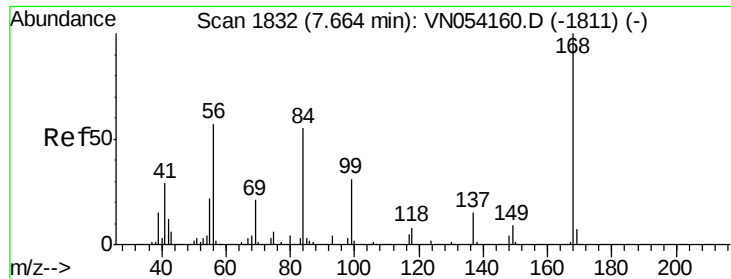
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampled :

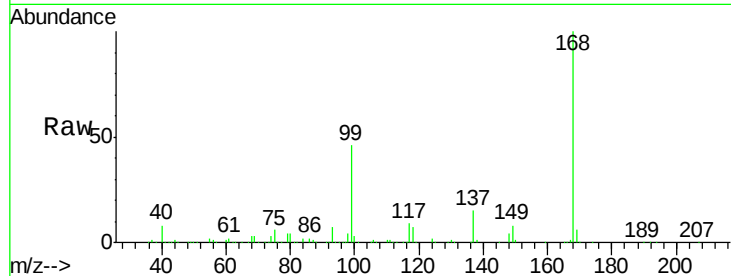
30276

Tot Ion:168 Resp: 1409055

Ion Ratio Lower Upper

168 100

99 45.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

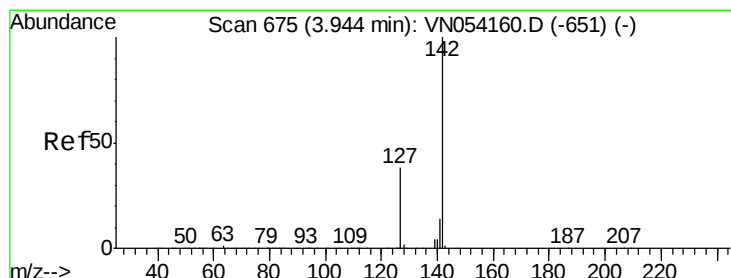
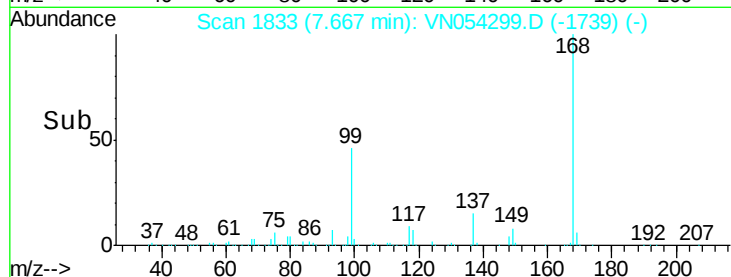
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 1.509 ug/l

RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

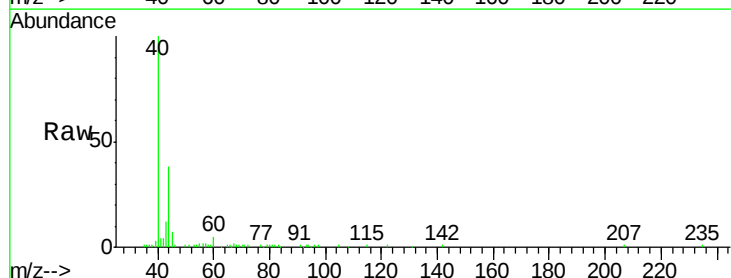
Tgt Ion:142 Resp: 264

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 11.4 11.2 16.8



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

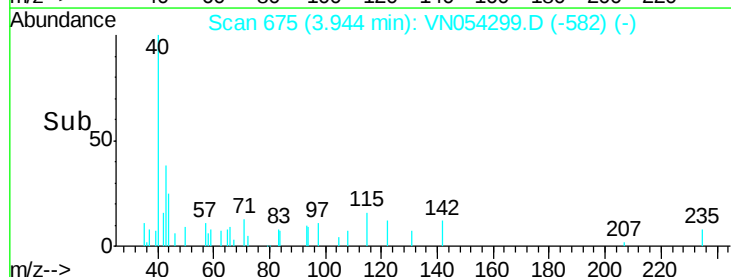
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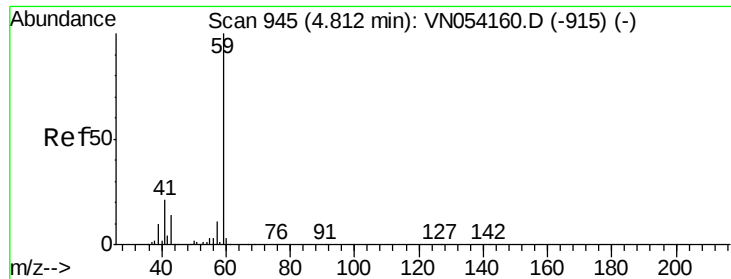
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.419 ug/l

RT: 4.81 min Scan# 944

Delta R.T. -0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampled :

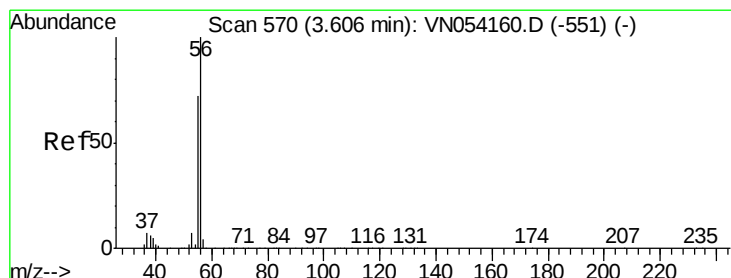
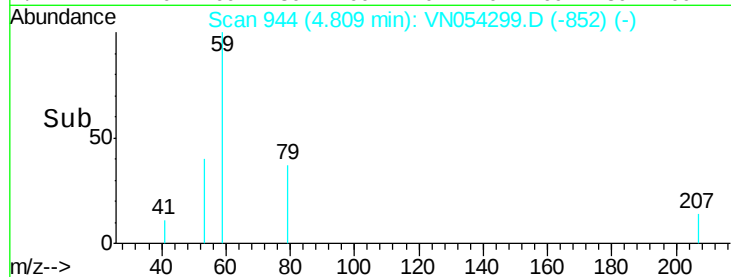
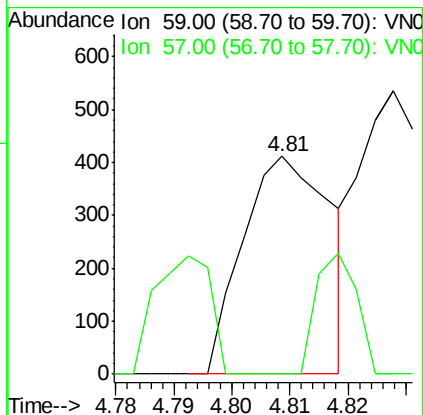
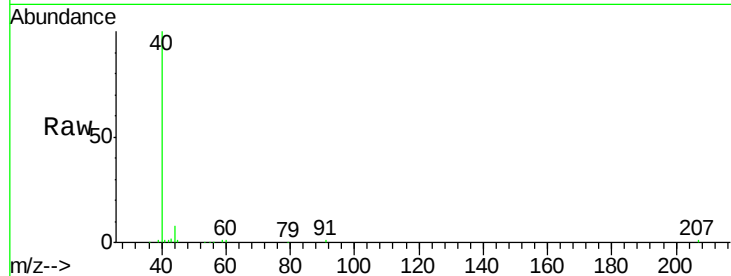
30276

Tot Ion: 59 Resp: 430

Ion Ratio Lower Upper

59 100

57 26.0 9.0 13.6#



#13

Acrolein

Concen: 1.642 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN054299.D

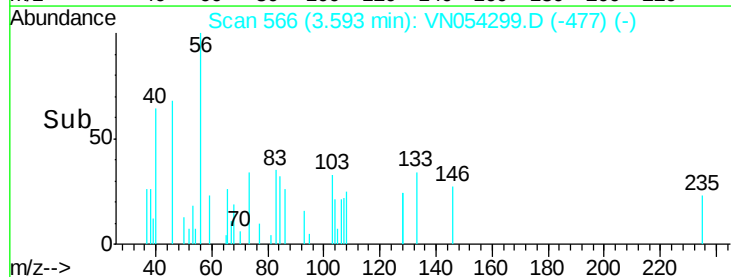
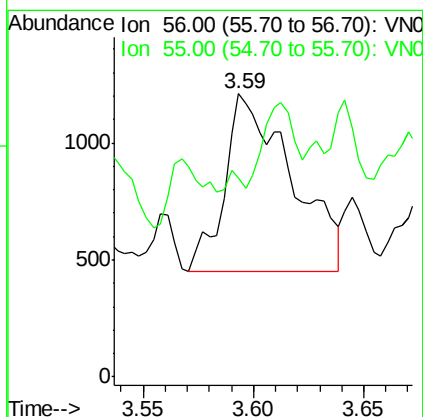
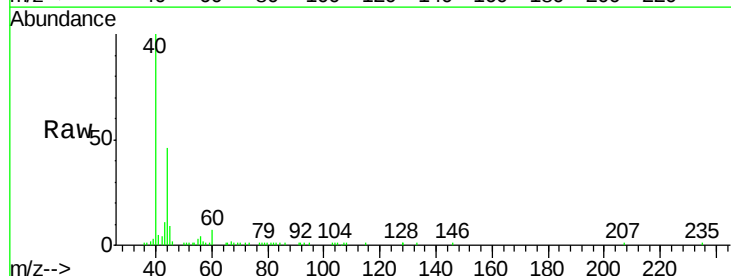
Acq: 15 Mar 2019 9:07

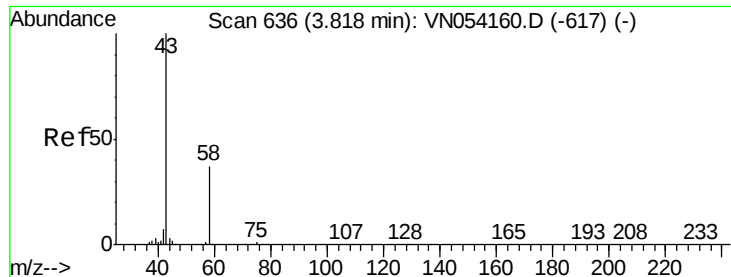
Tgt Ion: 56 Resp: 1596

Ion Ratio Lower Upper

56 100

55 4.5 56.7 85.1#





#16

Acetone

Concen: 35.633 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampled :

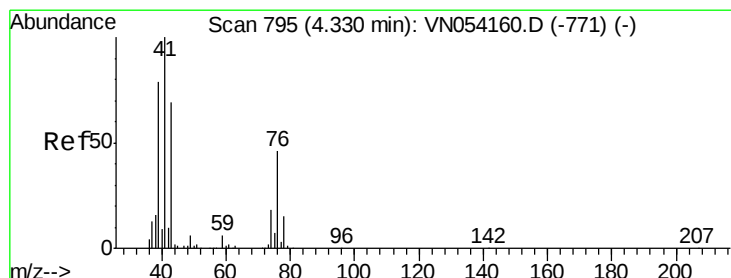
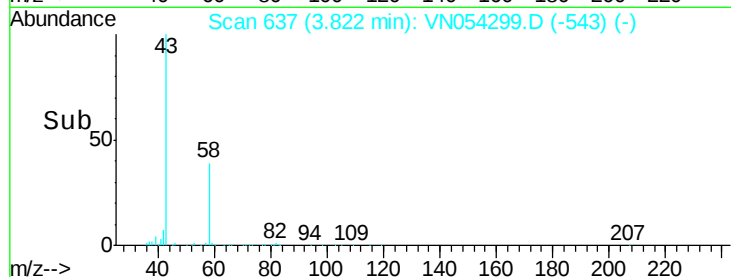
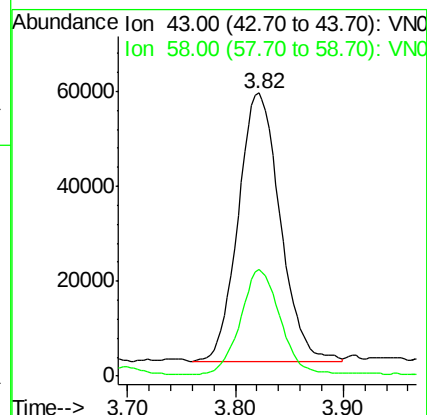
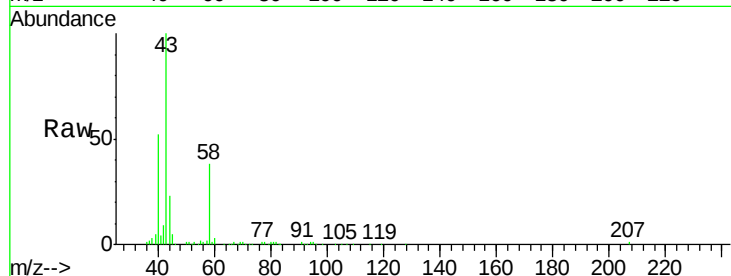
30276

Tot Ion: 43 Resp: 152673

Ion Ratio Lower Upper

43 100

58 38.9 29.9 44.9



#18

Methyl Acetate

Concen: 0.929 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054299.D

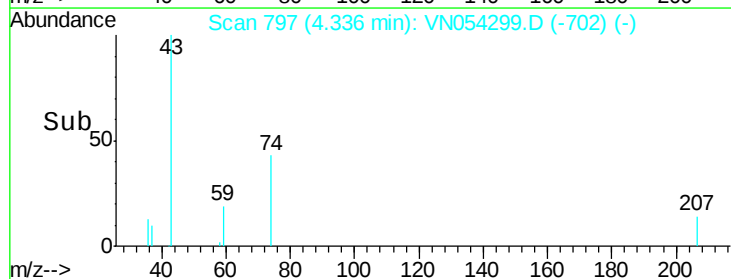
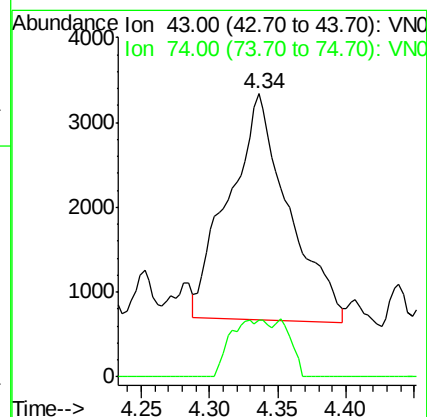
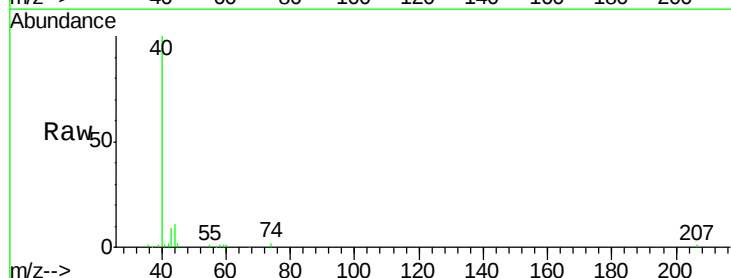
Acq: 15 Mar 2019 9:07

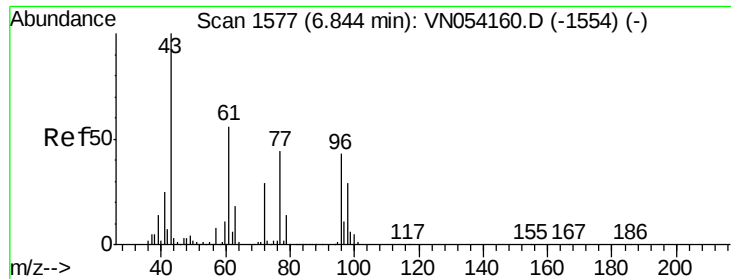
Tgt Ion: 43 Resp: 8057

Ion Ratio Lower Upper

43 100

74 11.0 20.8 31.2#





#25

2-Butanone

Concen: 0.623 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampled :

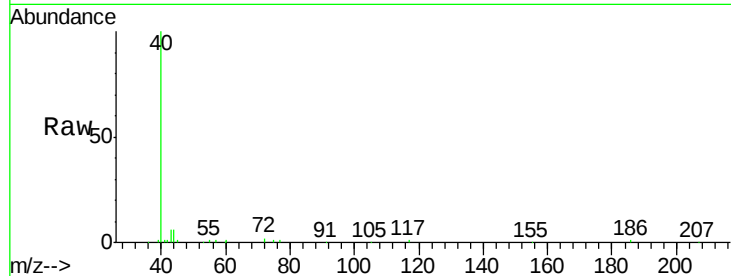
30276

Tot Ion: 43 Resp: 3135

Ion Ratio Lower Upper

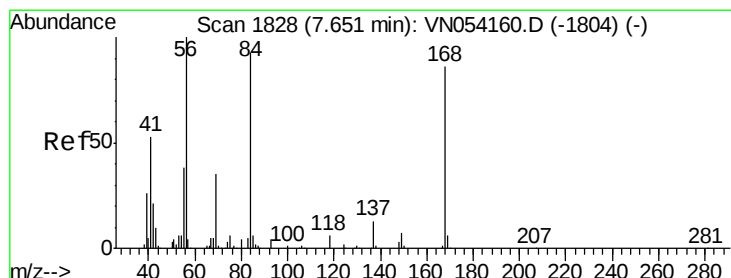
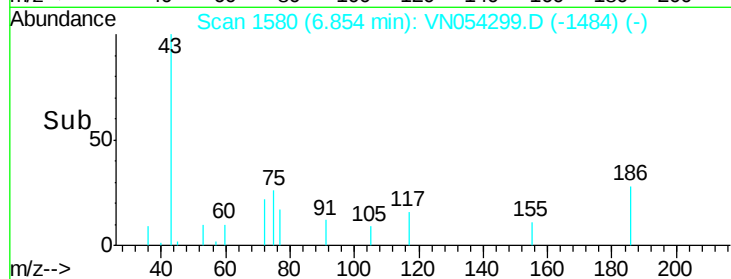
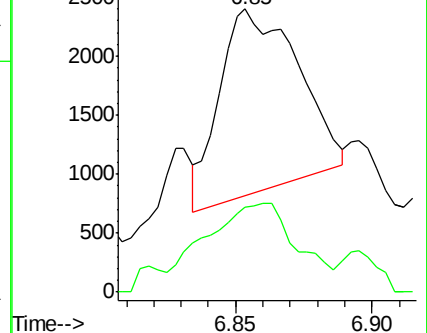
43 100

72 34.3 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

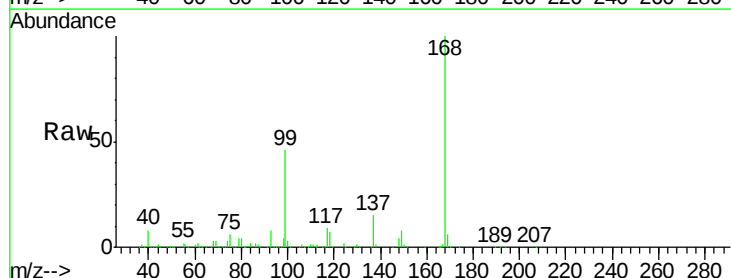
Tgt Ion: 56 Resp: 21252

Ion Ratio Lower Upper

56 100

69 193.5 27.8 41.6#

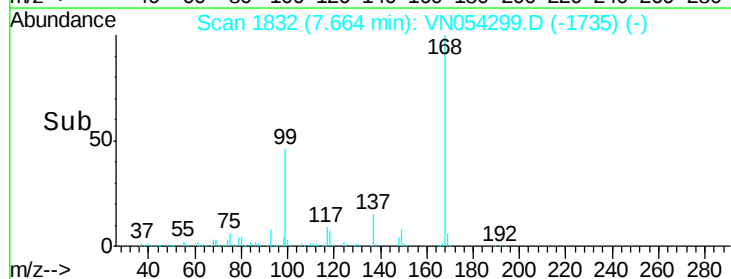
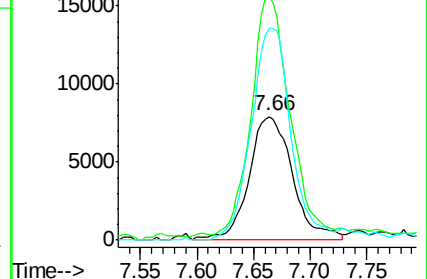
84 171.4 74.6 111.8#

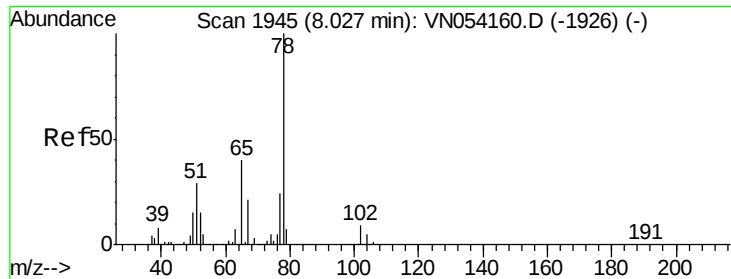


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

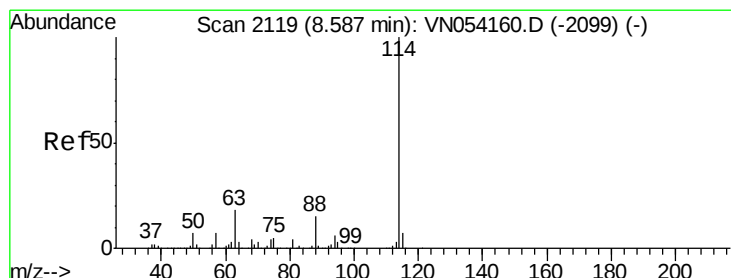
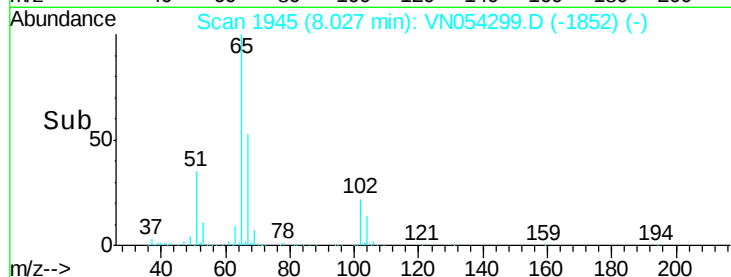
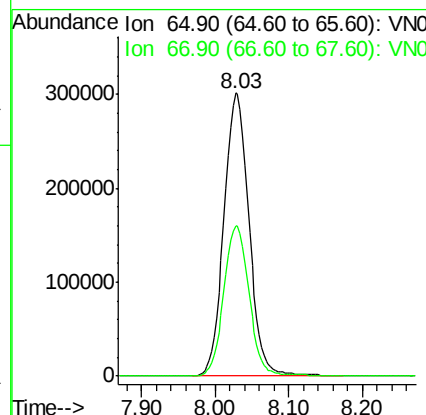
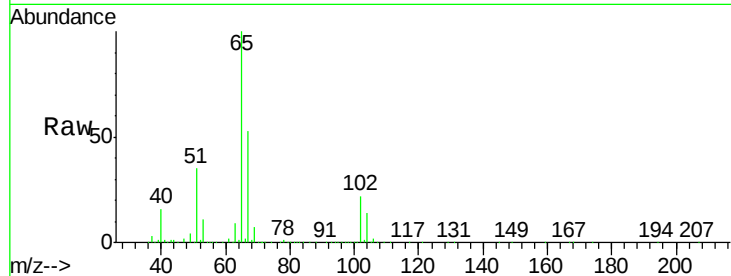




#33
 1,2-Dichloroethane-d4
 Concen: 47.838 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054299.D
 Acq: 15 Mar 2019 9:07

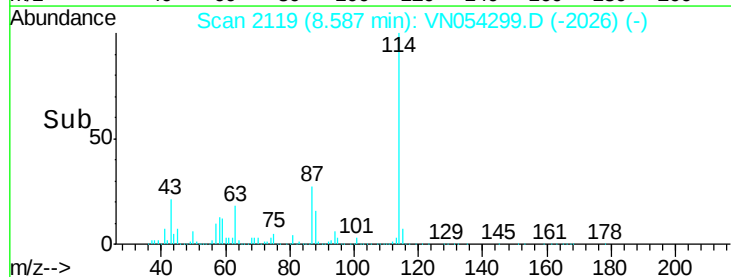
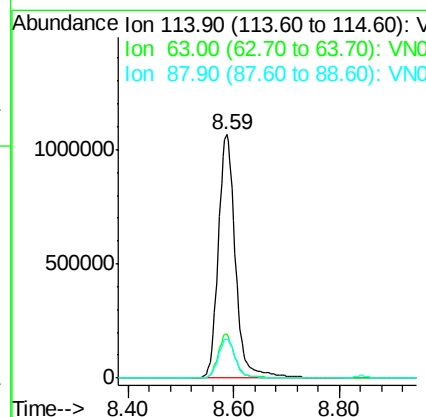
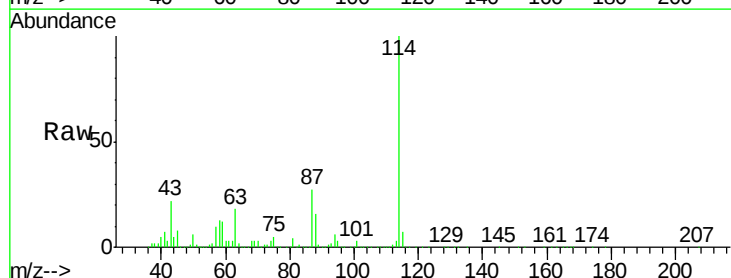
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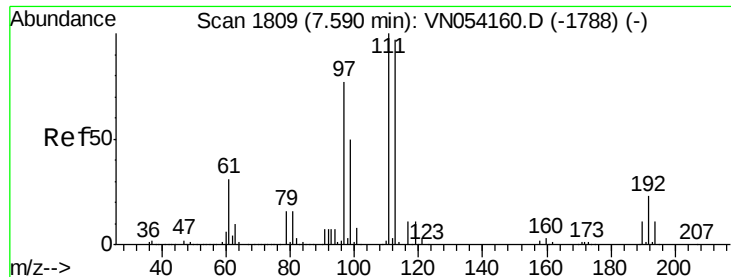
Tot Ion: 65 Resp: 715865
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054299.D
 Acq: 15 Mar 2019 9:07

Tgt Ion: 114 Resp: 2396717
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.2
 88 16.2 0.0 30.2

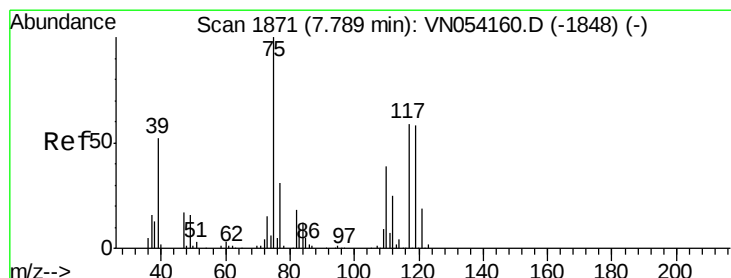
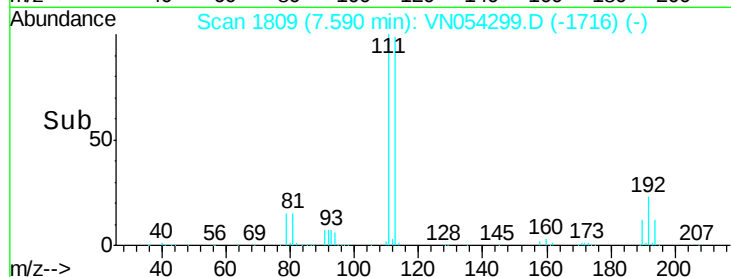
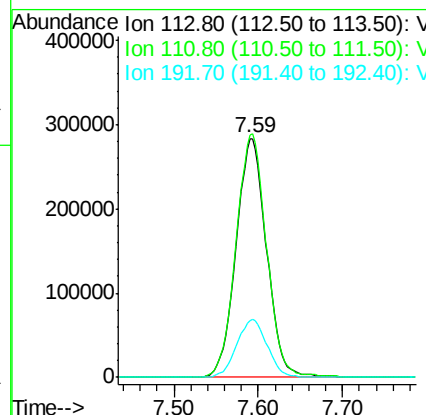
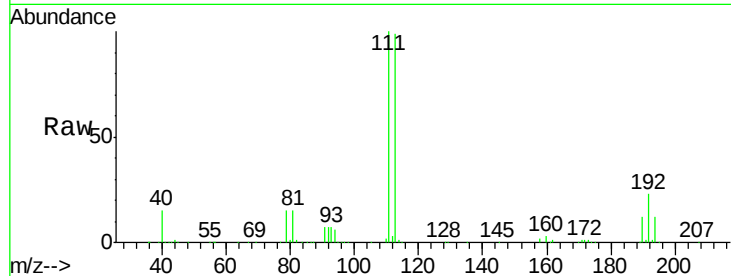




#35
 Dibromofluoromethane
 Concen: 46.175 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054299.D
 Acq: 15 Mar 2019 9:07

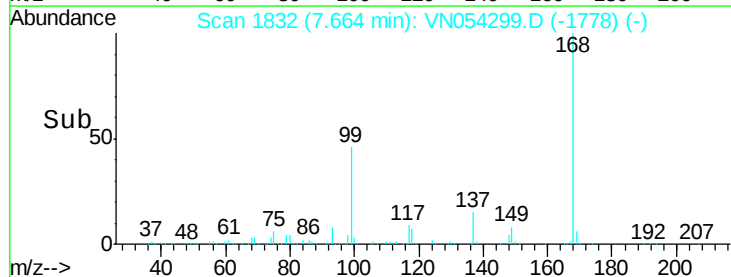
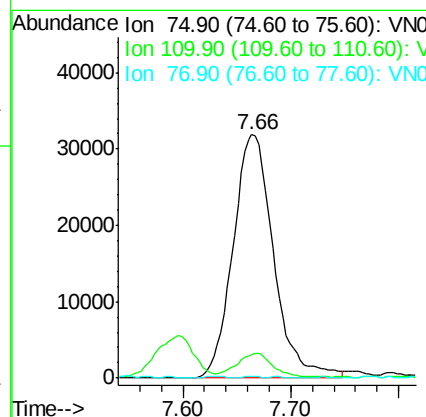
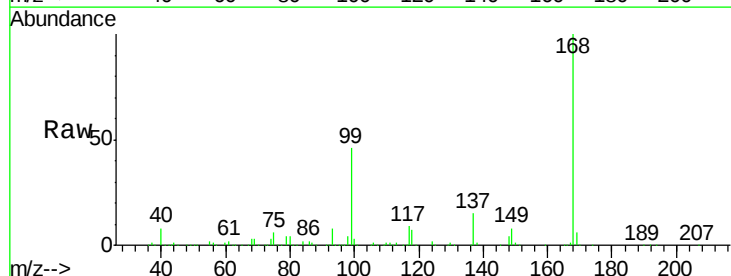
Instrument :
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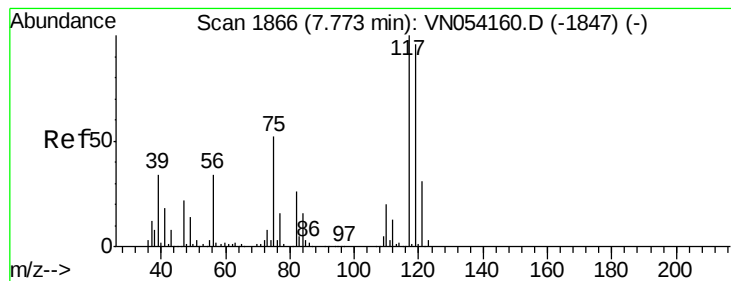
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.4
192	24.3	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 3.779 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054299.D
 Acq: 15 Mar 2019 9:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	19.1	57.5#
77	0.2	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.202 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampleId :

30276

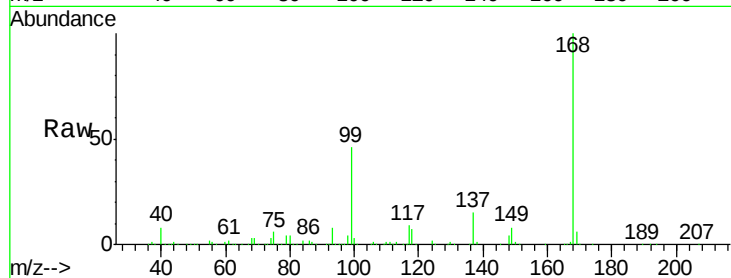
Tot Ion:117 Resp: 120415

Ion Ratio Lower Upper

117 100

119 4.5 76.3 114.5#

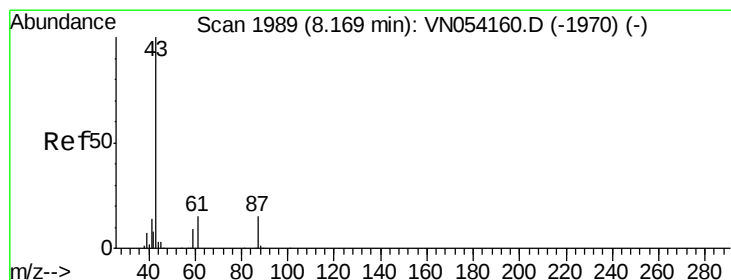
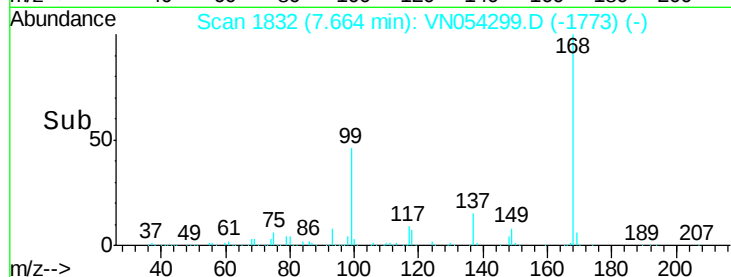
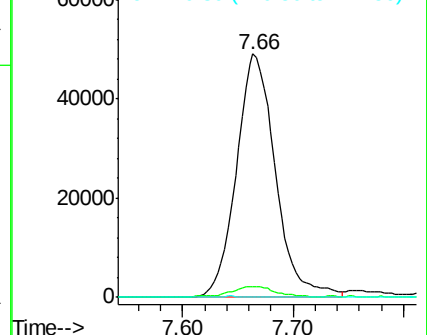
121 0.0 24.6 36.8#



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: 8.662 ug/l

RT: 8.41 min Scan# 2063

Delta R.T. 0.24 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

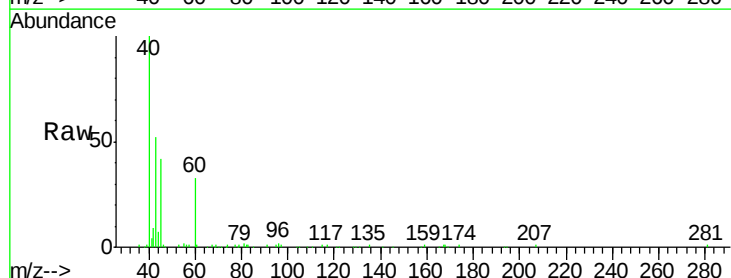
Tgt Ion: 43 Resp: 192811

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

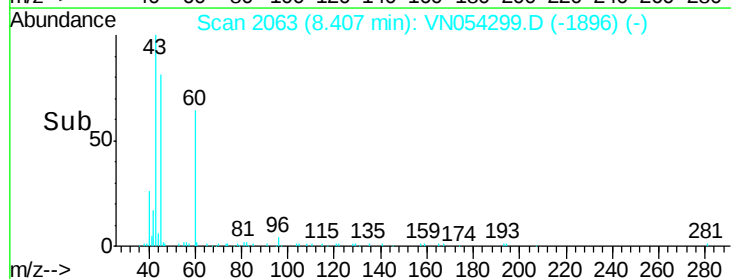
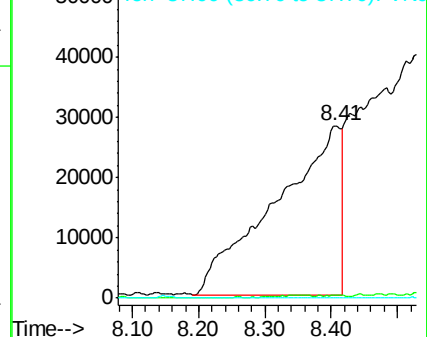
87 0.0 12.0 18.0#

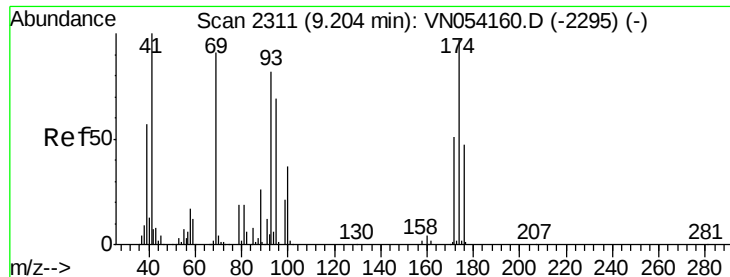


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#49

1,4-Dioxane

Concen: 0.432 ug/l

RT: 8.99 min Scan# 2244

Delta R.T. -0.22 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampled :

30276

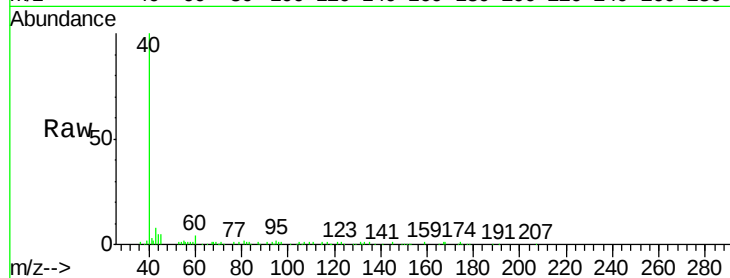
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 0.0 24.1 36.1#

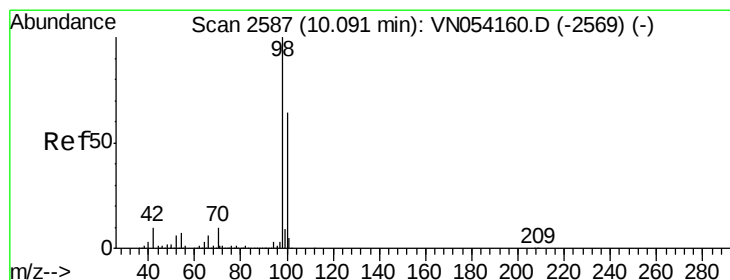
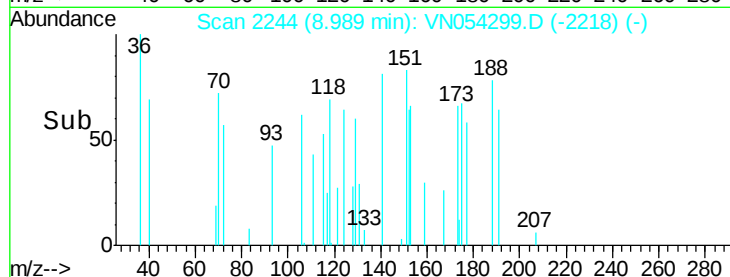
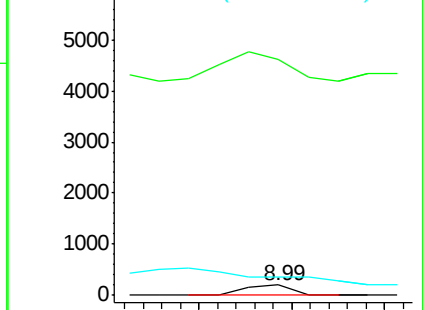
58 0.0 50.8 76.2#



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: 51.839 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054299.D

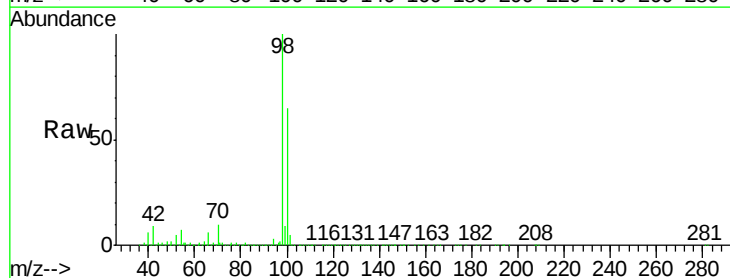
Acq: 15 Mar 2019 9:07

Tgt Ion: 98 Resp: 2959385

Ion Ratio Lower Upper

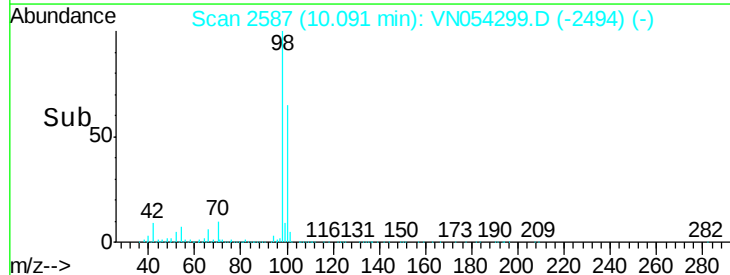
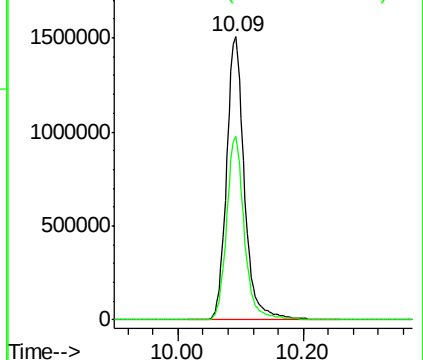
98 100

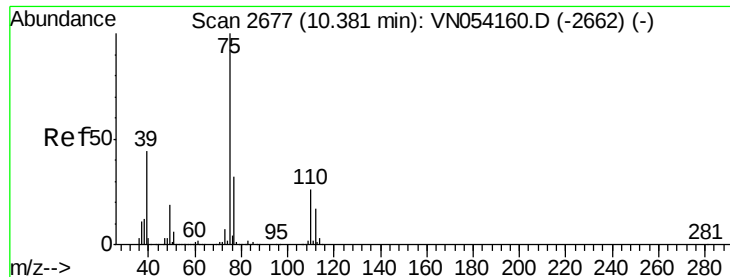
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 1.999 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampleId :

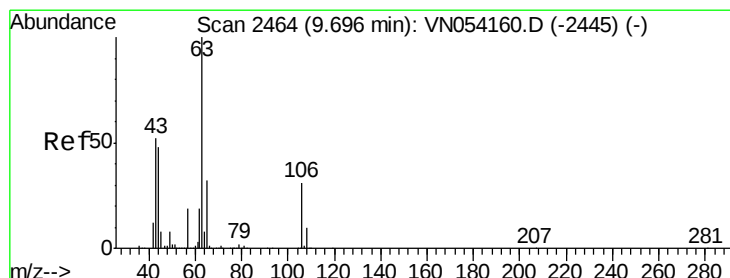
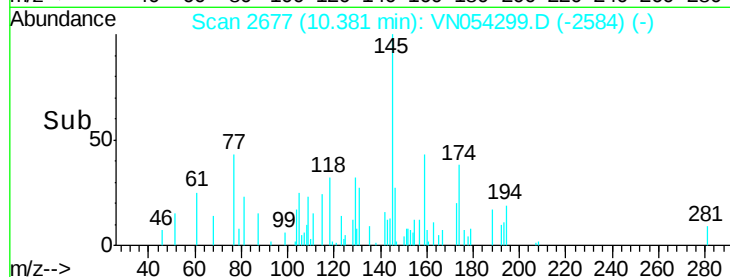
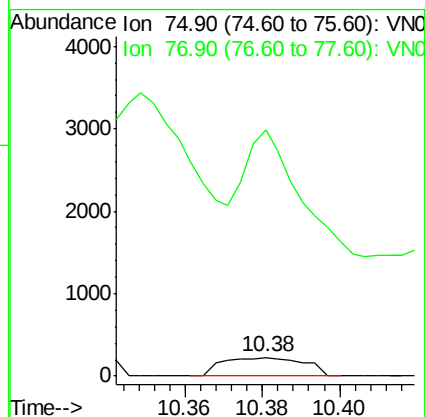
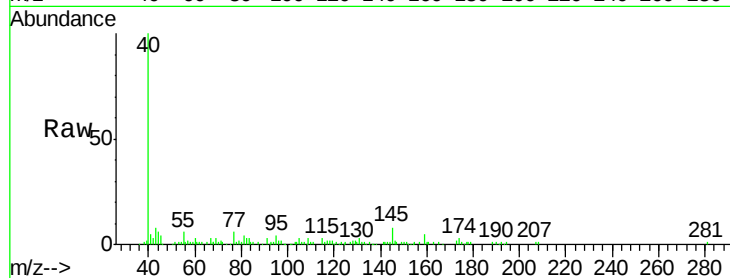
30276

Tot Ion: 75 Resp: 334

Ion Ratio Lower Upper

75 100

77 600.9 25.8 38.8#



#58

2-Chloroethyl Vinyl ether

Concen: 16.866 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054299.D

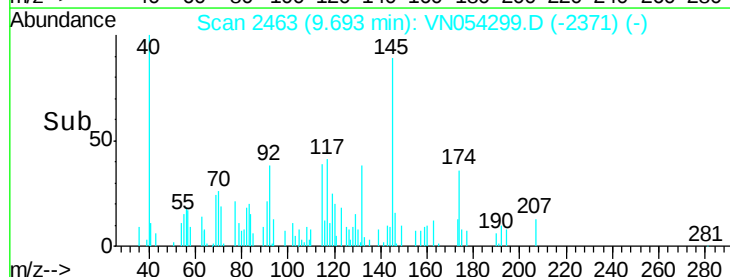
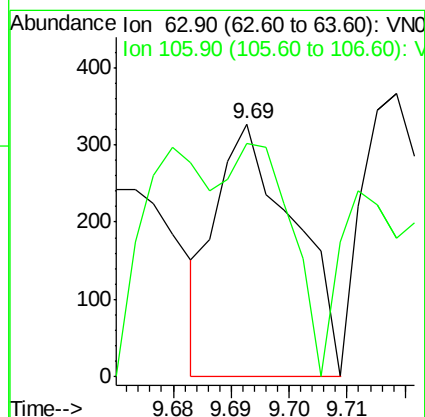
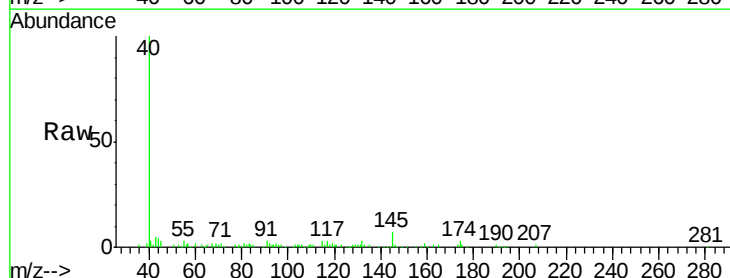
Acq: 15 Mar 2019 9:07

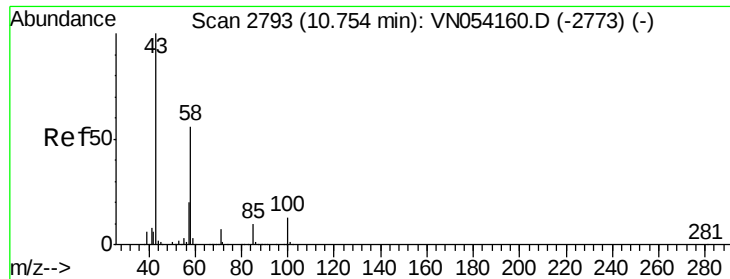
Tgt Ion: 63 Resp: 306

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#

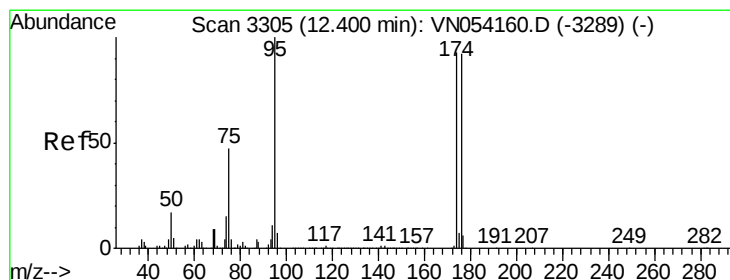
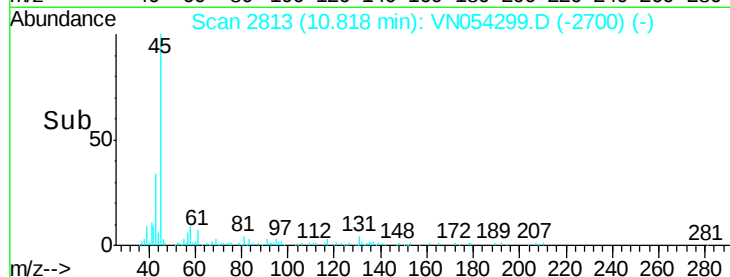
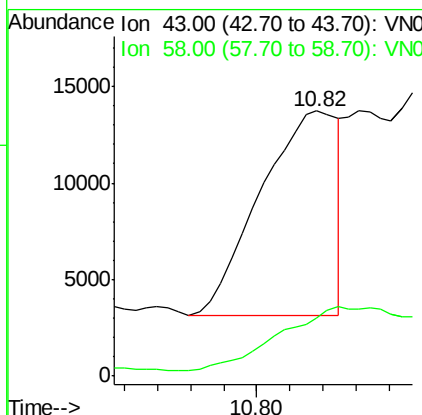
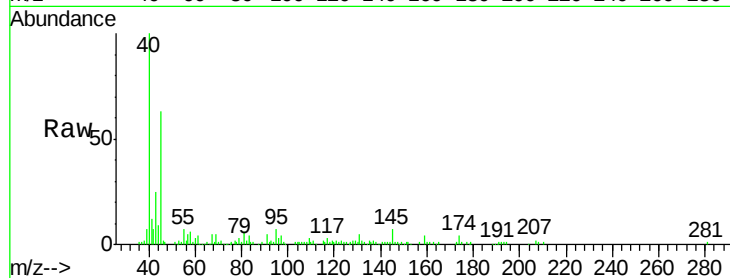




#59
2-Hexanone
Concen: 2.206 ug/l
RT: 10.82 min Scan# 2813
Delta R.T. 0.06 min
Lab File: VN054299.D
Acq: 15 Mar 2019 9:07

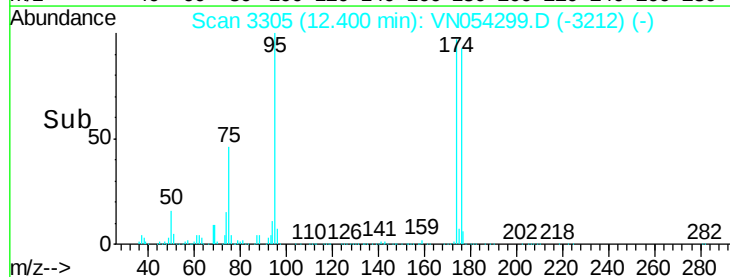
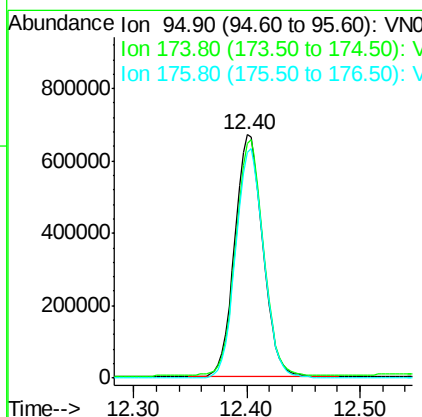
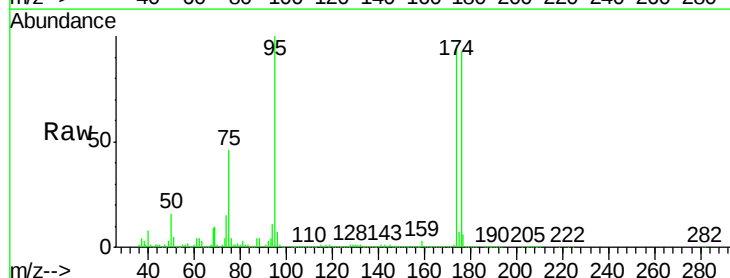
Instrument :
MSVOA_N
ClientSampleId :
30276

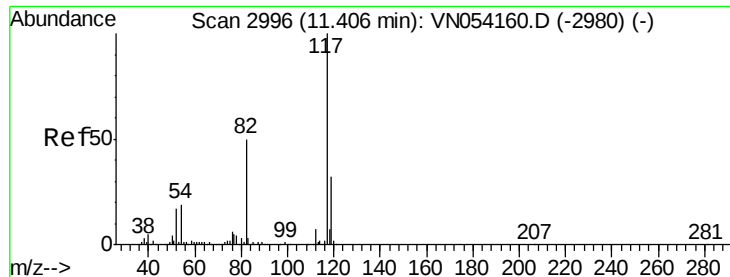
Tot Ion: 43 Resp: 17294
Ion Ratio Lower Upper
43 100
58 52.2 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 57.939 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054299.D
Acq: 15 Mar 2019 9:07

Tgt Ion: 95 Resp: 1157344
Ion Ratio Lower Upper
95 100
174 97.3 0.0 191.0
176 94.6 0.0 187.4

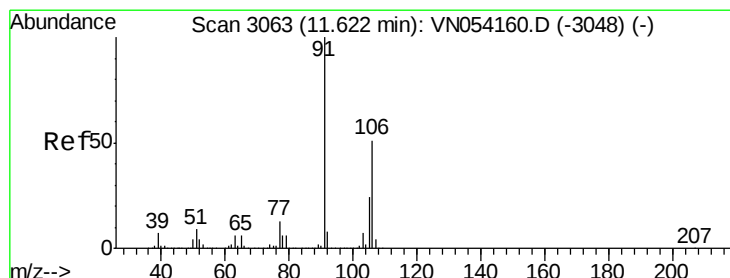
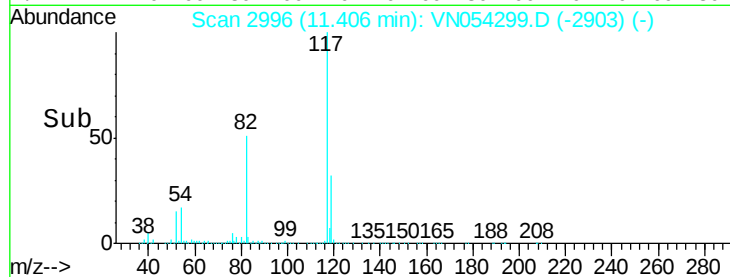
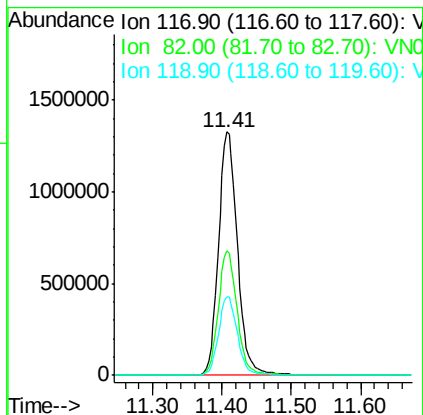
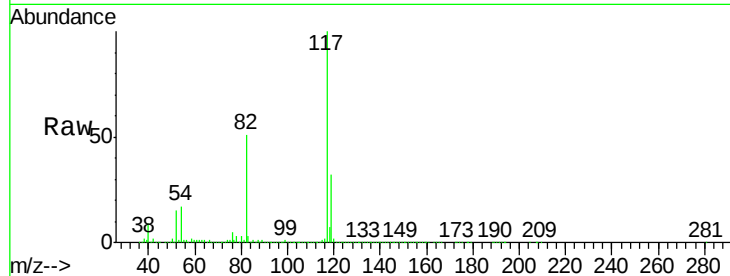




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054299.D
Acq: 15 Mar 2019 9:07

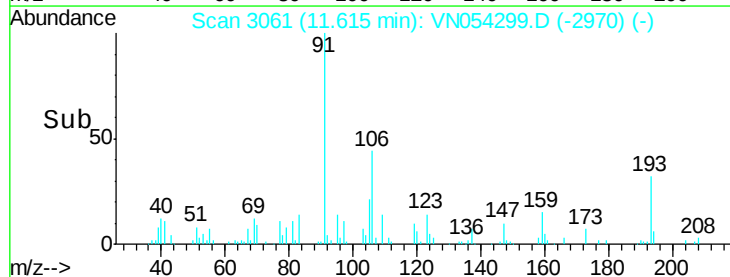
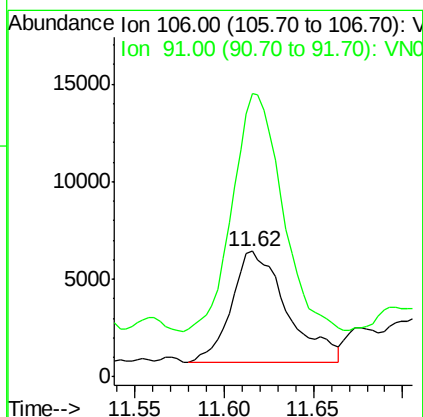
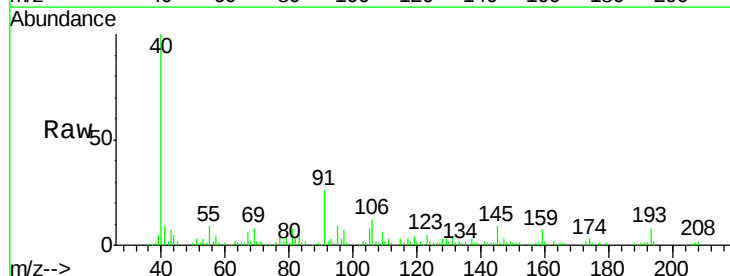
Instrument :
MSVOA_N
ClientSampled :
30276

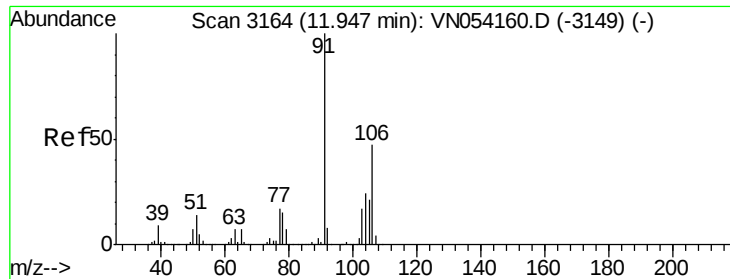
Tot Ion:117 Resp: 2498243
Ion Ratio Lower Upper
117 100
82 51.1 40.0 60.0
119 32.4 25.8 38.6



#68
m/p-Xylenes
Concen: 0.350 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN054299.D
Acq: 15 Mar 2019 9:07

Tgt Ion:106 Resp: 12455
Ion Ratio Lower Upper
106 100
91 188.9 159.4 239.2

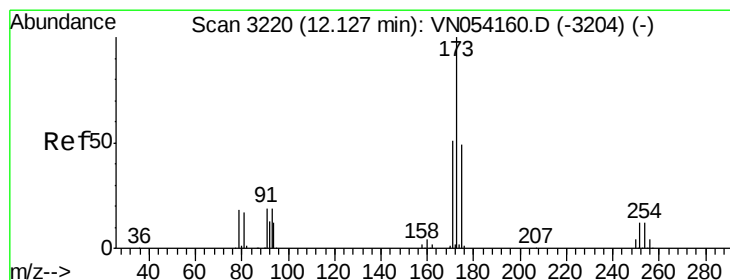
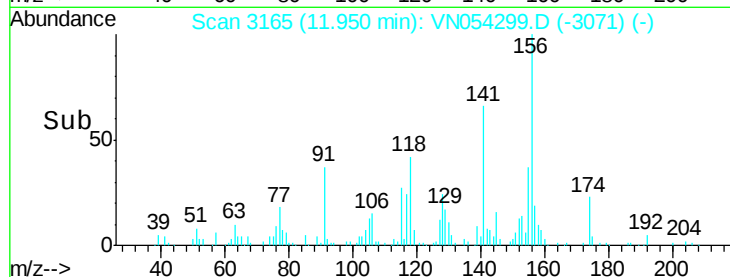
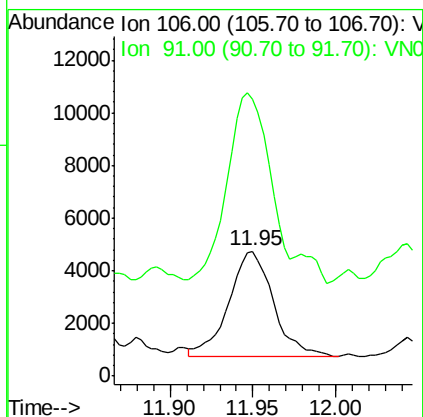
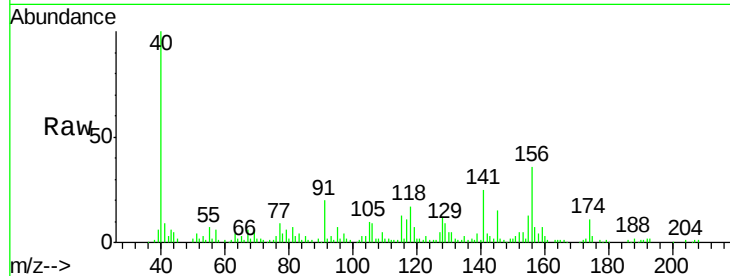




#69
o-Xylene
Concen: 0.217 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054299.D
Acq: 15 Mar 2019 9:07

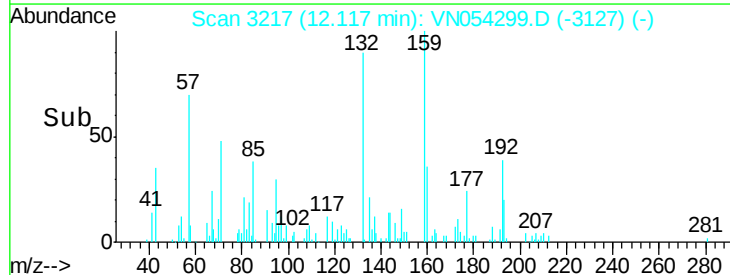
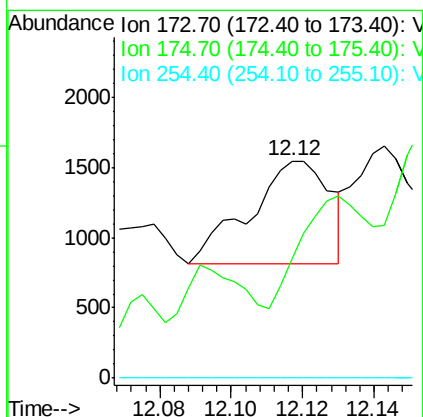
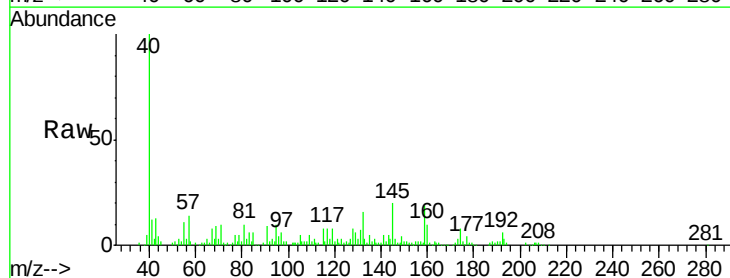
Instrument :
MSVOA_N
ClientSampled :
30276

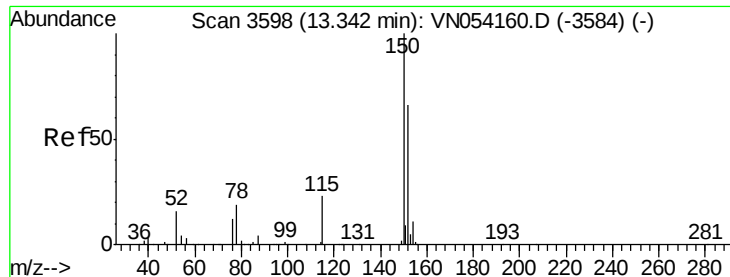
Tot Ion:106 Resp: 7503
Ion Ratio Lower Upper
106 100
91 169.1 105.7 317.1



#71
Bromoform
Concen: 2.422 ug/l
RT: 12.12 min Scan# 3217
Delta R.T. -0.01 min
Lab File: VN054299.D
Acq: 15 Mar 2019 9:07

Tgt Ion:173 Resp: 1136
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampleId :

30276

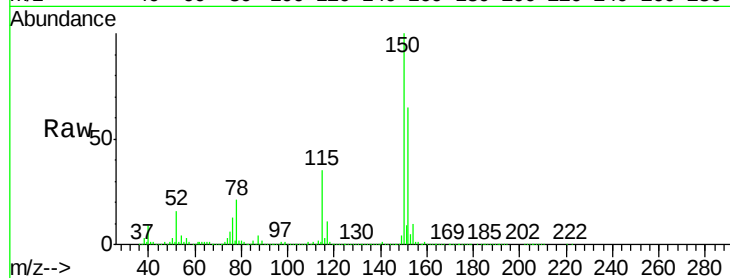
Tot Ion:152 Resp: 1129869

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

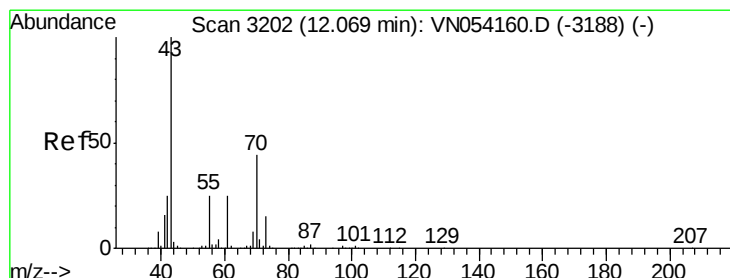
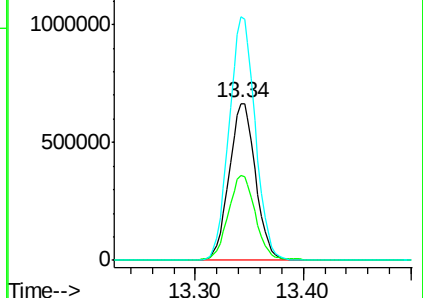
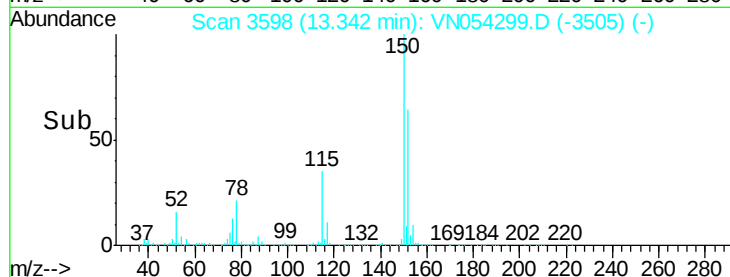
150 154.1 0.0 349.2



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: 0.276 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Tgt Ion: 43 Resp: 5532

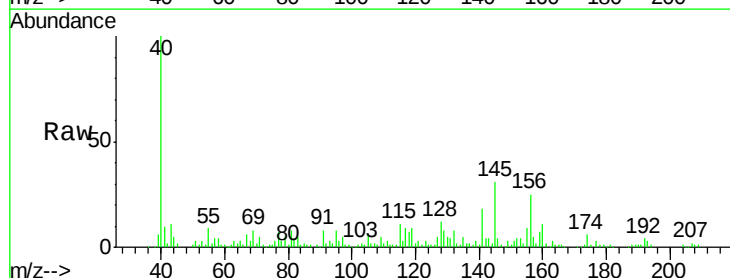
Ion Ratio Lower Upper

43 100

70 0.0 35.4 53.0#

55 0.0 19.8 29.6#

61 4.2 19.8 29.6#

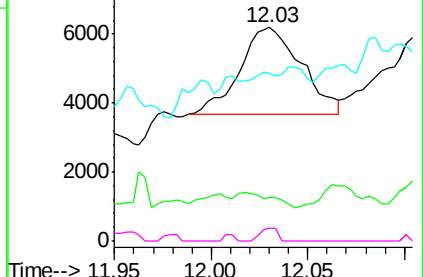
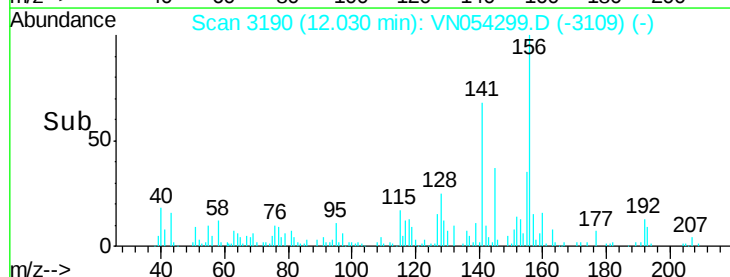


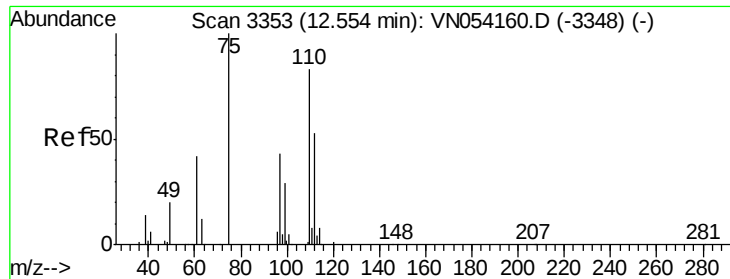
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.748 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampleId :

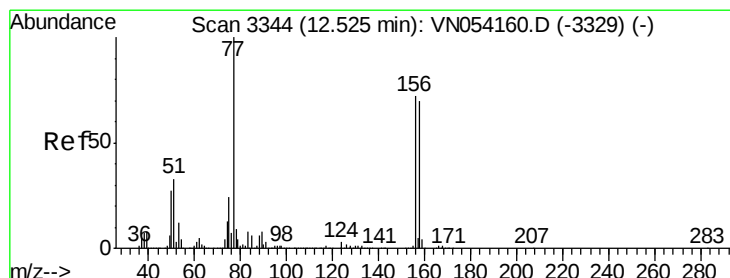
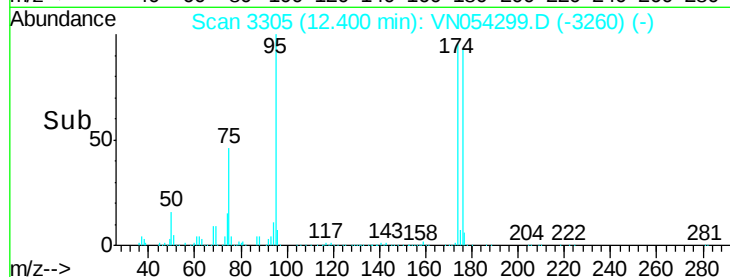
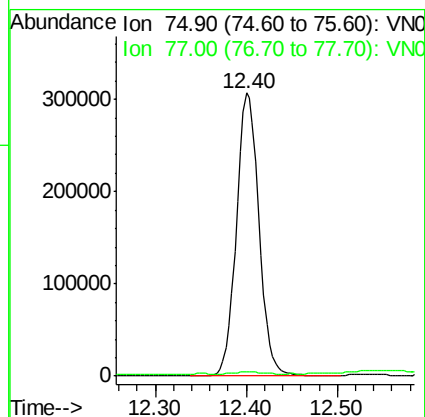
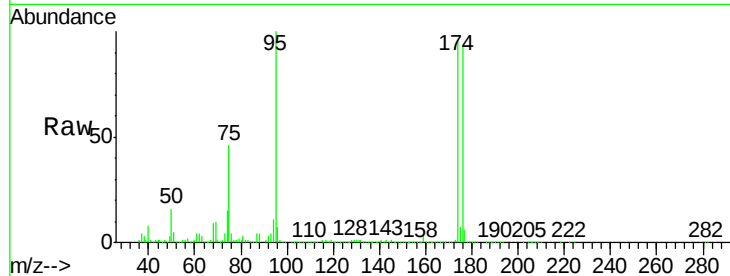
30276

Tot Ion: 75 Resp: 527499

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#77

Bromobenzene

Concen: 4.644 ug/l

RT: 12.54 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

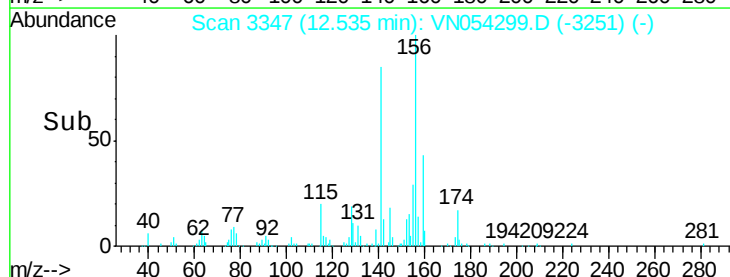
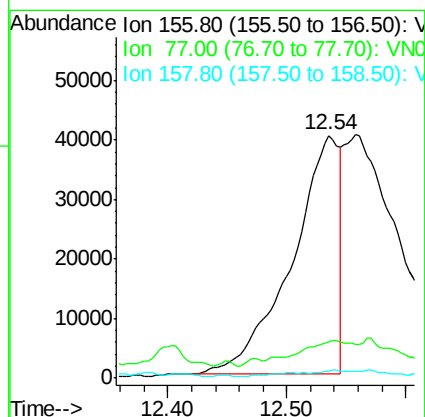
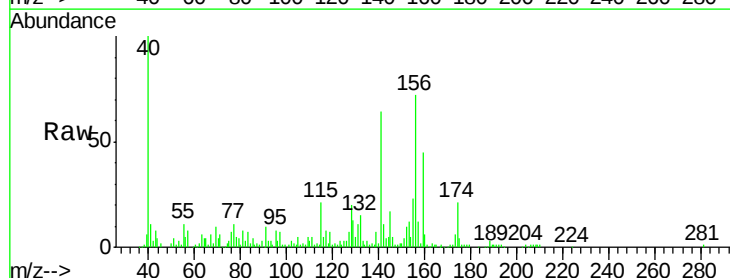
Tgt Ion: 156 Resp: 111094

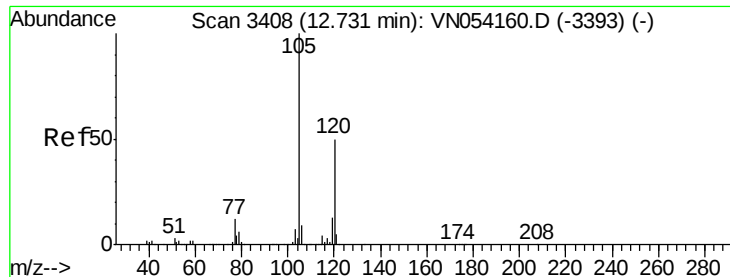
Ion Ratio Lower Upper

156 100

77 8.7 81.5 244.4#

158 0.4 49.0 147.2#





#80

1,3,5-Trimethylbenzene

Concen: 0.295 ug/l

RT: 12.66 min Scan# 3385

Delta R.T. -0.07 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampled :

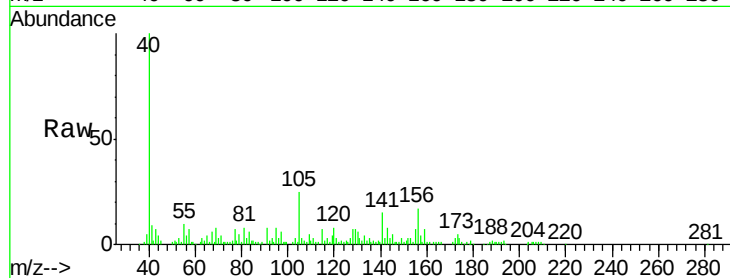
30276

Tot Ion:105 Resp: 22217

Ion Ratio Lower Upper

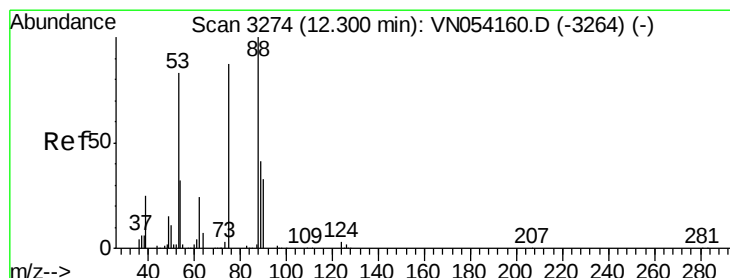
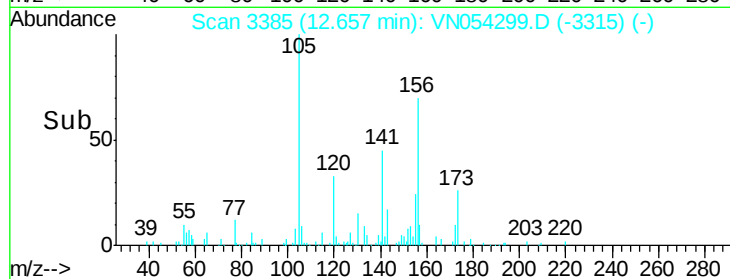
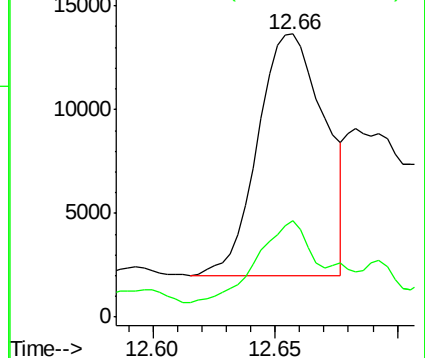
105 100

120 27.8 25.0 75.0



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: 108.529 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

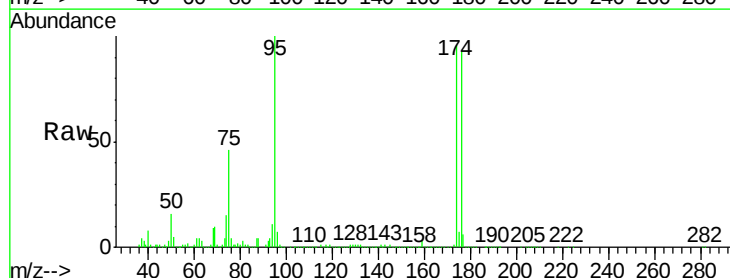
Tgt Ion: 75 Resp: 527499

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

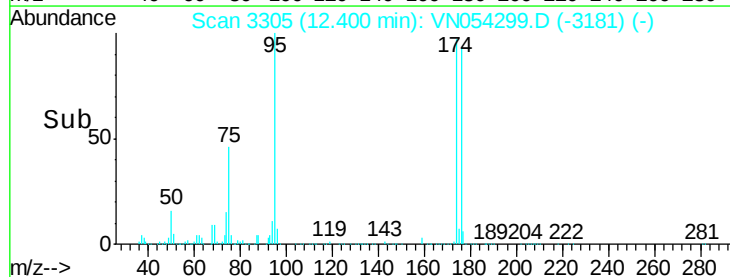
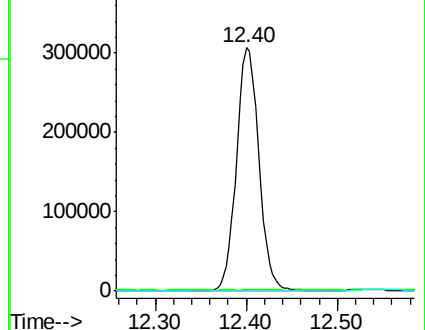
89 0.2 39.2 58.8#

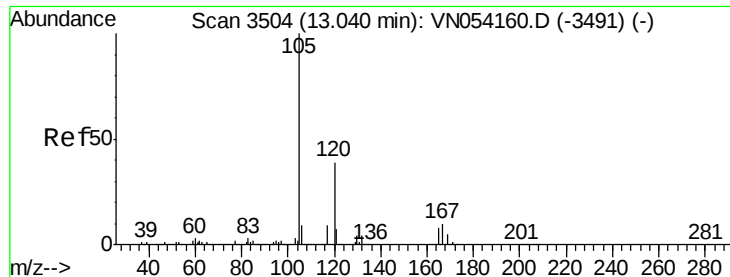


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.694 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampleId :

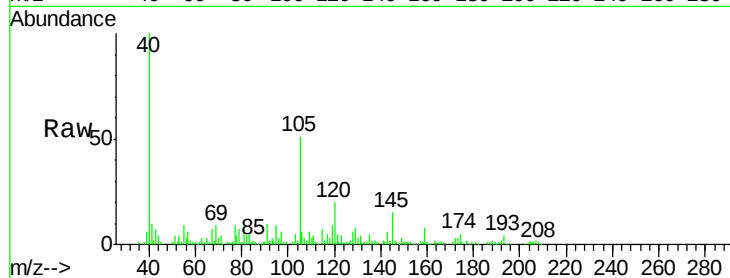
30276

Tot Ion:105 Resp: 51166

Ion Ratio Lower Upper

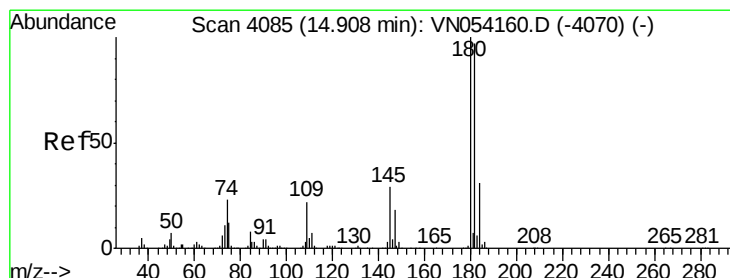
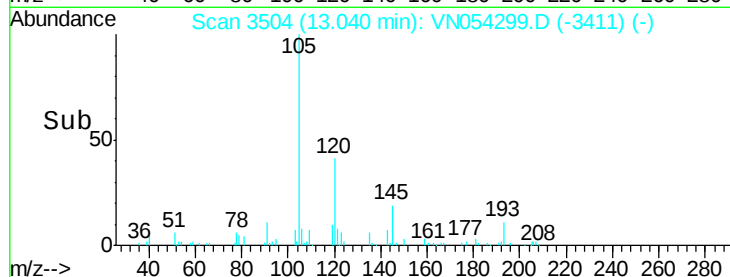
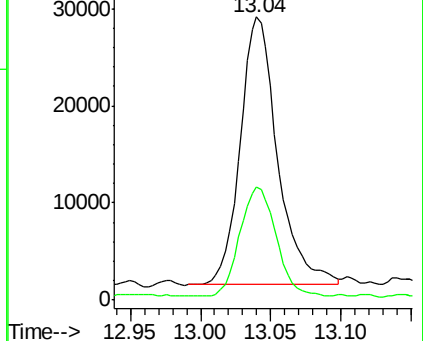
105 100

120 39.6 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 2.537 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

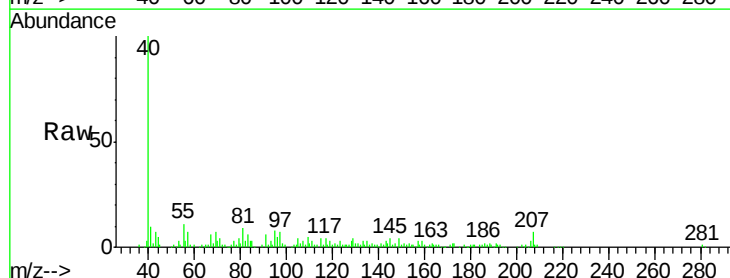
Tgt Ion:180 Resp: 524

Ion Ratio Lower Upper

180 100

182 110.3 48.0 144.2

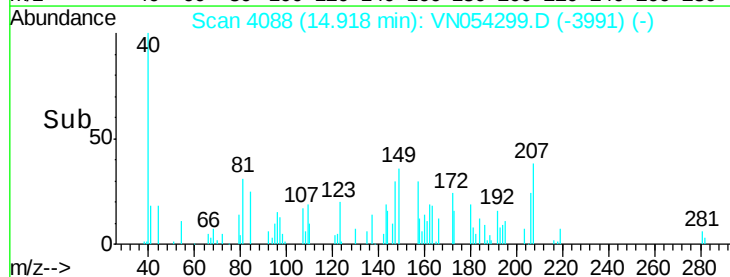
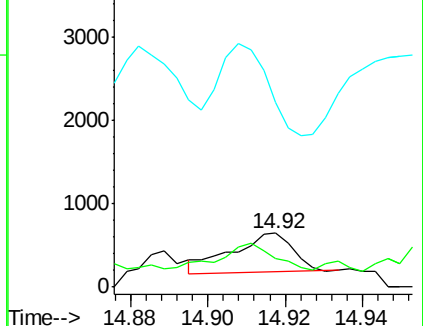
145 180.3 14.2 42.8#

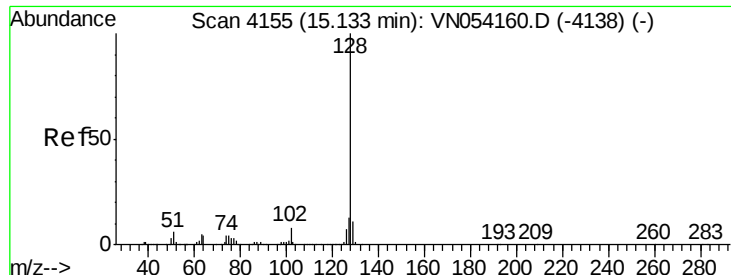


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 8.485 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054299.D

Acq: 15 Mar 2019 9:07

Instrument :

MSVOA_N

ClientSampleId :

30276

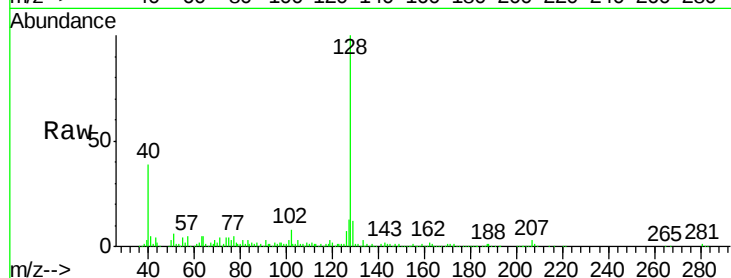
Tot Ion:128 Resp: 267057

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

129 11.2 8.7 13.1



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

