

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056777.D
 Acq On : 16 Jul 2019 18:29
 Operator : JC/SP
 Sample : K3622-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-071519-A

Quant Time: Jul 17 01:11:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	260316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	469223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	508160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190448	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	155350	53.95	ug/l	0.00
Spiked Amount			Recovery	=	107.90%	
35) Dibromofluoromethane	7.59	113	140098	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	10.09	98	604296	53.58	ug/l	0.00
Spiked Amount			Recovery	=	107.16%	
62) 4-Bromofluorobenzene	12.40	95	221838	58.33	ug/l	0.00
Spiked Amount			Recovery	=	116.66%	

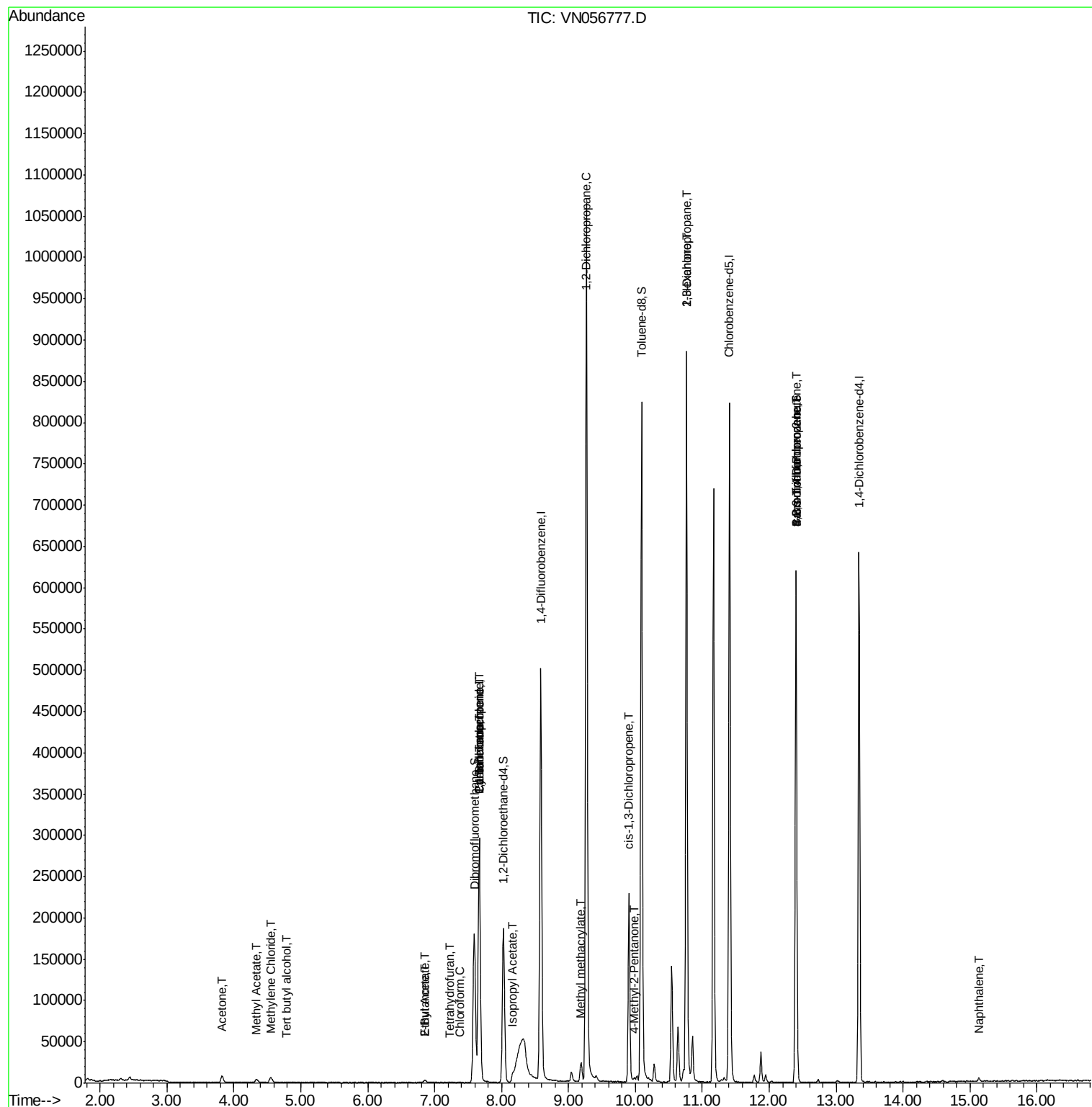
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	749	1.563	ug/l #	73
16) Acetone	3.82	43	14764	11.126	ug/l	92
18) Methyl Acetate	4.33	43	7931	1.721	ug/l #	86
20) Methylene Chloride	4.55	84	5008	1.727	ug/l	97
25) 2-Butanone	6.85	43	6336	3.266	ug/l	92
29) Tetrahydrofuran	7.23	42	534	0.422	ug/l #	39
30) Chloroform	7.38	83	1058	0.218	ug/l	97
31) Cyclohexane	7.66	56	4174	0.907	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17113	3.941	ug/l #	47
37) Ethyl Acetate	6.85	43	6336	1.481	ug/l #	68
38) Carbon Tetrachloride	7.67	117	22367	5.493	ug/l #	15
43) Isopropyl Acetate	8.17	43	14476	2.152	ug/l	93
45) 1,2-Dichloropropane	9.27	63	1352	0.382	ug/l #	45
48) Methyl methacrylate	9.18	41	8548	2.627	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	3335	0.765	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	43830	8.696	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	9394	1.736	ug/l #	42
59) 2-Hexanone	10.76	43	128897	41.226	ug/l #	53
71) Bromoform	12.40	173	1563	0.537	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	102573	24.625	ug/l #	100
79) 2-Chlorotoluene	12.59	91	101	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	102573	76.050	ug/l #	13
95) Naphthalene	15.14	128	4849	4.958	ug/l #	94

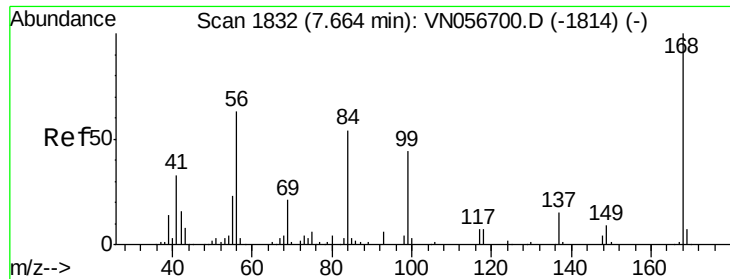
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 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: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

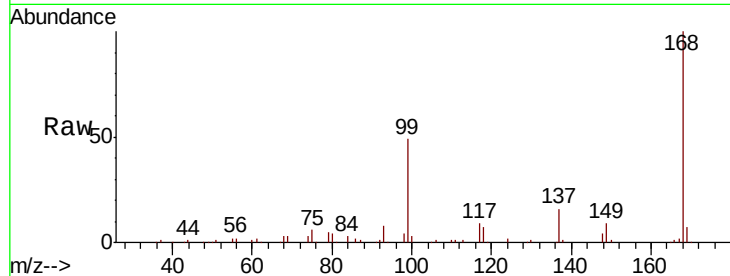
OR-03-071519-A

Tot Ion:168 Resp: 260316

Ion Ratio Lower Upper

168 100

99 49.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN056777.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056777.D (-1739) (-)

7.67

120000

100000

80000

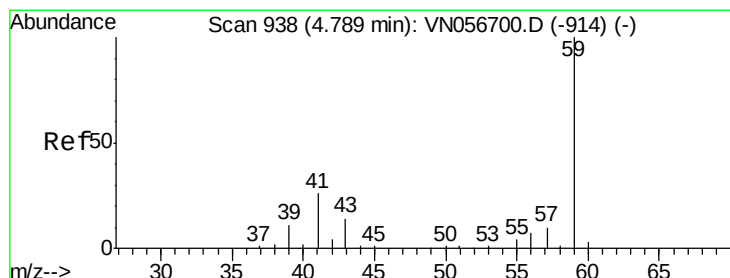
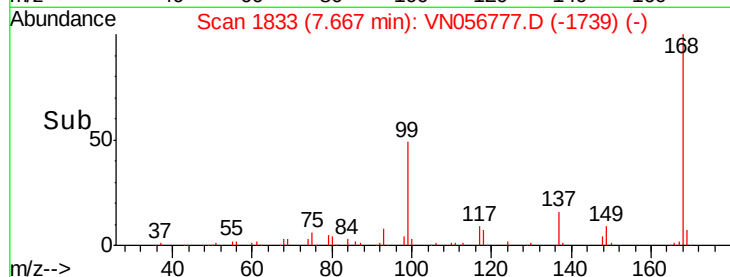
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.563 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.00 min

Lab File: VN056777.D

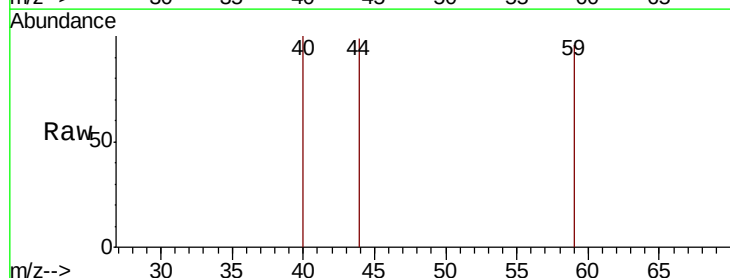
Acq: 16 Jul 2019 18:29

Tgt Ion: 59 Resp: 749

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN056777.D (-845) (-)

Ion 57.00 (56.70 to 57.70): VN056777.D (-845) (-)

4.79

400

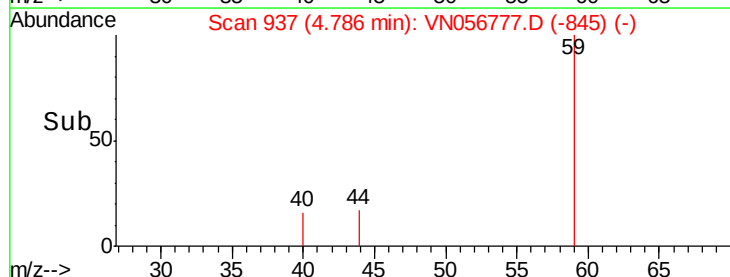
300

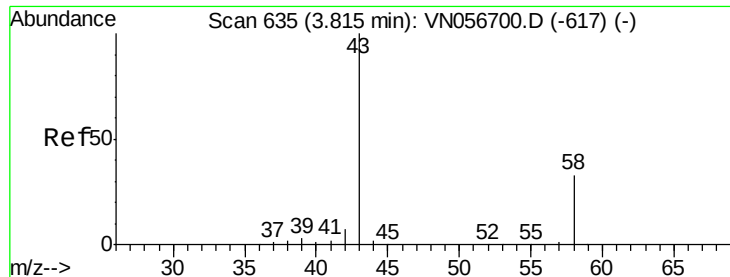
200

100

0

Time-->





#16

Acetone

Concen: 11.126 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

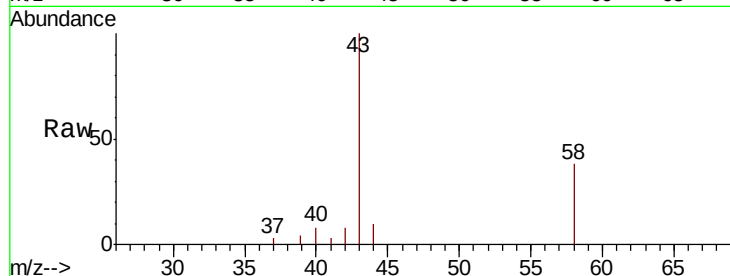
OR-03-071519-A

Tot Ion: 43 Resp: 14764

Ion Ratio Lower Upper

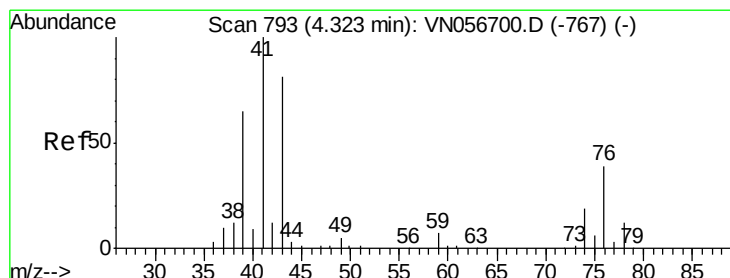
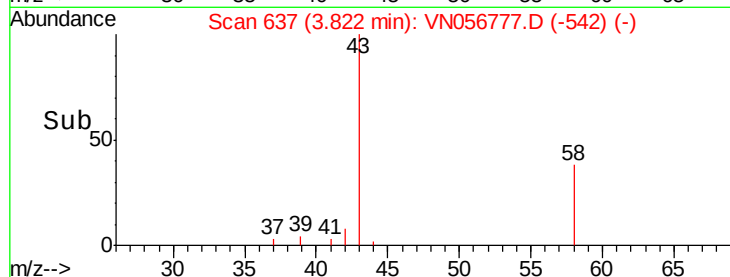
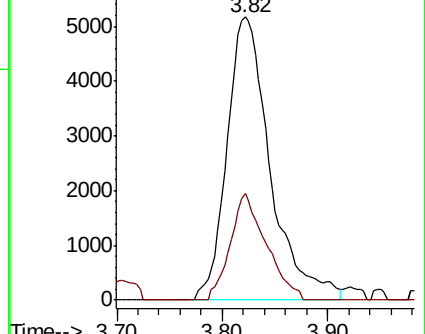
43 100

58 37.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.721 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056777.D

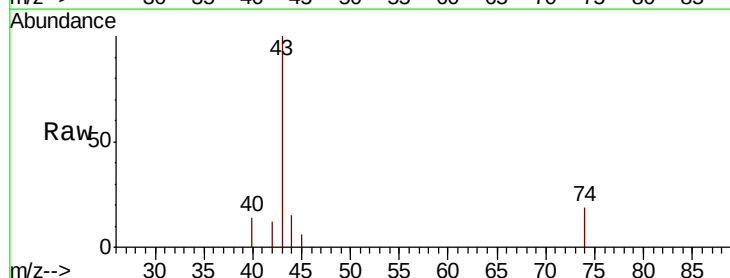
Acq: 16 Jul 2019 18:29

Tgt Ion: 43 Resp: 7931

Ion Ratio Lower Upper

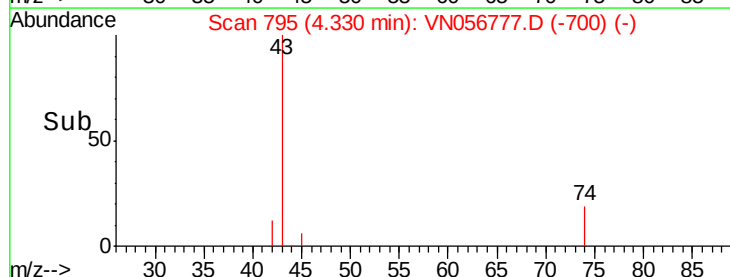
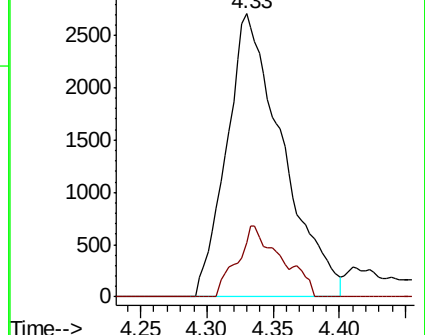
43 100

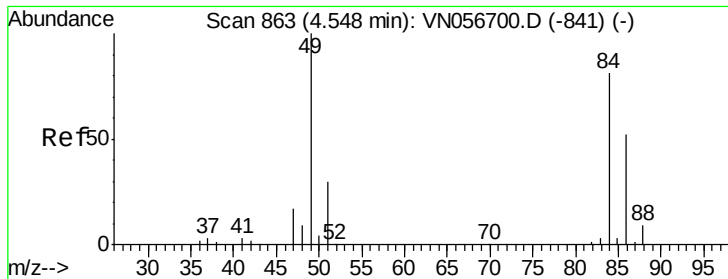
74 16.9 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

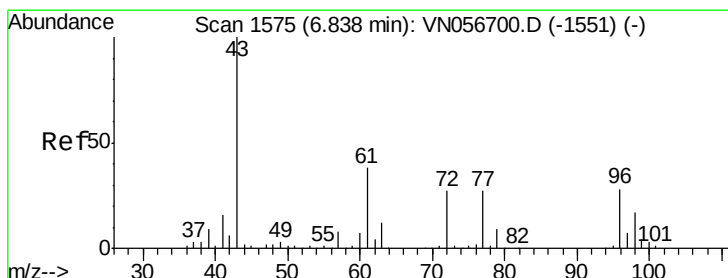
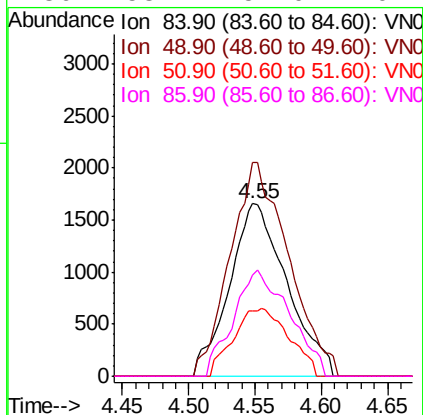
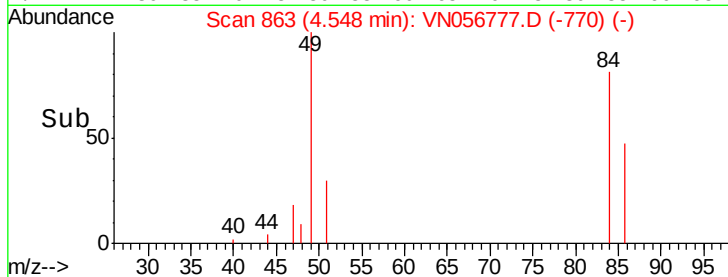
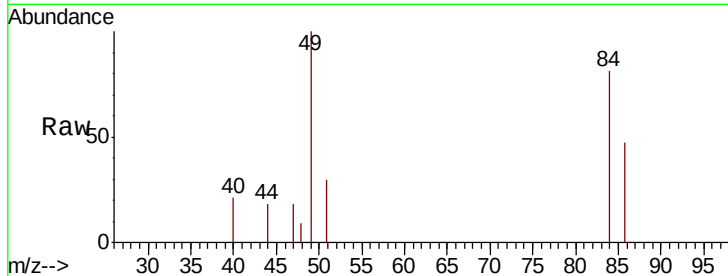




#20
Methvlene Chloride
Concen: 1.727 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

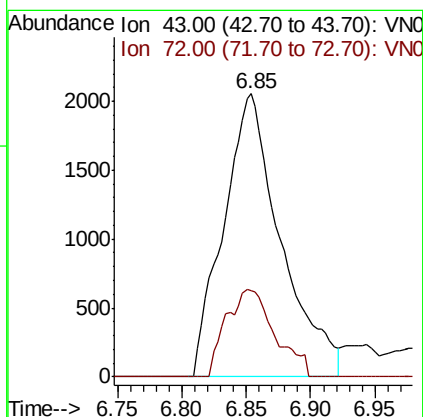
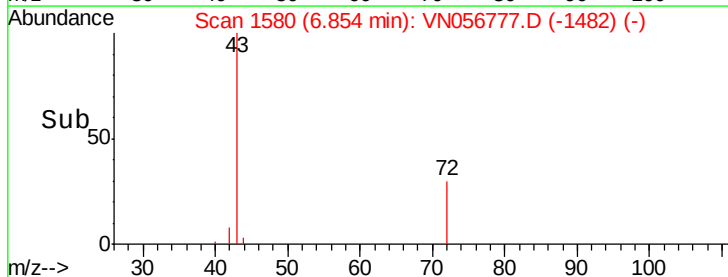
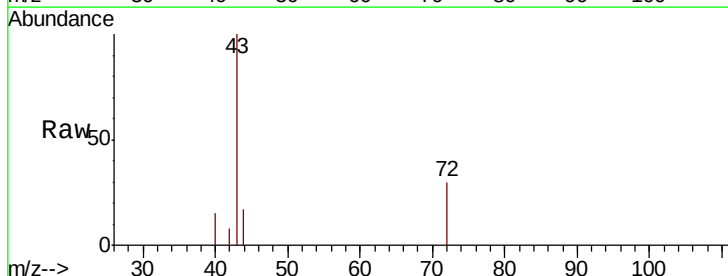
Instrument :
MSVOA_N
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OR-03-071519-A

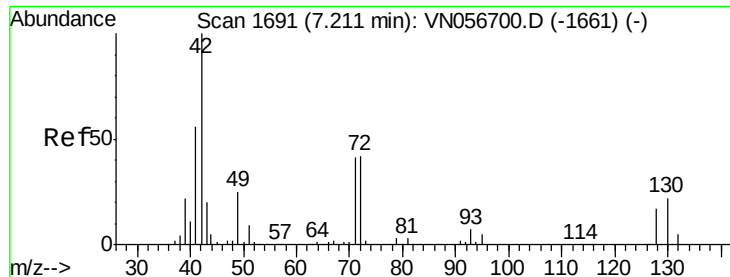
Tot Ion: 84 Resp: 5008
Ion Ratio Lower Upper
84 100
49 123.9 98.2 147.4
51 37.7 29.6 44.4
86 58.7 51.0 76.4



#25
2-Butanone
Concen: 3.266 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

Tgt Ion: 43 Resp: 6336
Ion Ratio Lower Upper
43 100
72 30.4 21.2 31.8





#29

Tetrahydrofuran

Concen: 0.422 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

OR-03-071519-A

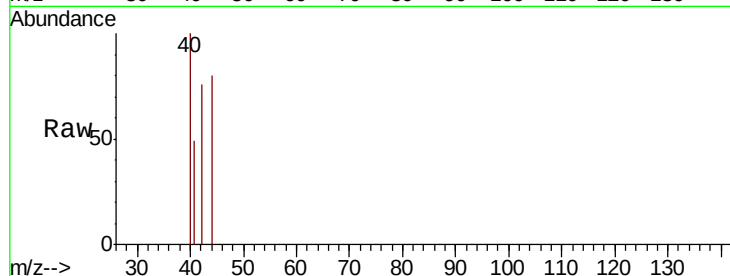
Tot Ion: 42 Resp: 534

Ion Ratio Lower Upper

42 100

72 5.4 33.5 50.3#

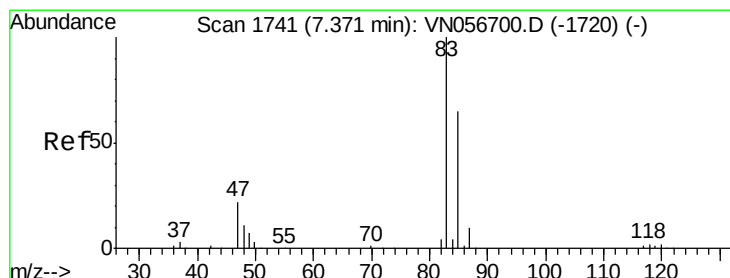
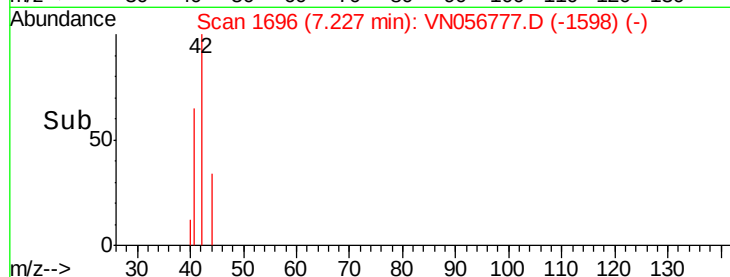
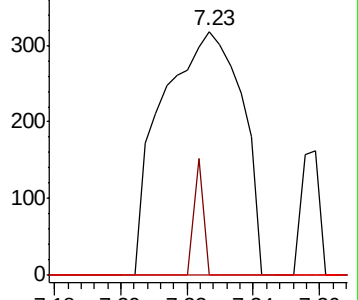
71 0.0 31.8 47.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.218 ug/l

RT: 7.38 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VN056777.D

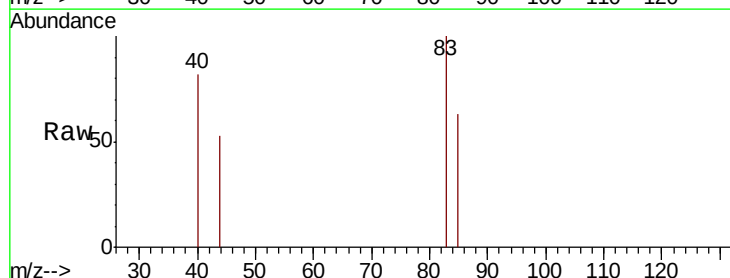
Acq: 16 Jul 2019 18:29

Tgt Ion: 83 Resp: 1058

Ion Ratio Lower Upper

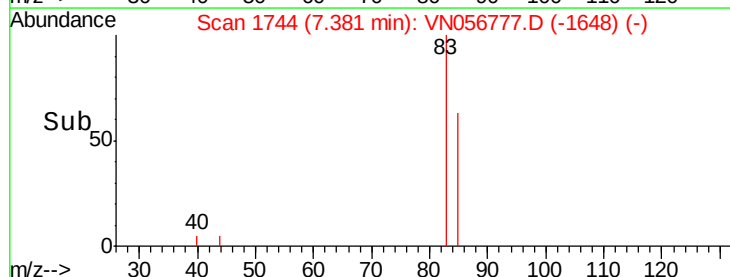
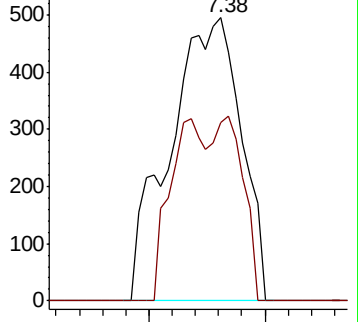
83 100

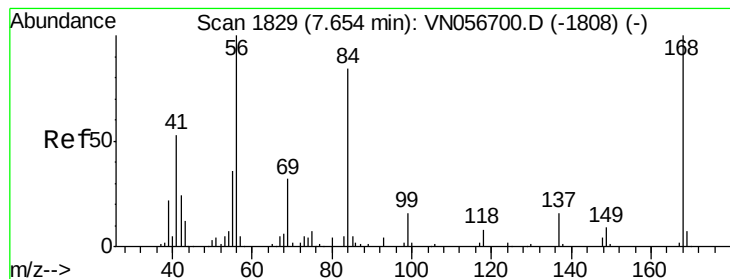
85 62.8 51.9 77.9



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.907 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056777.D

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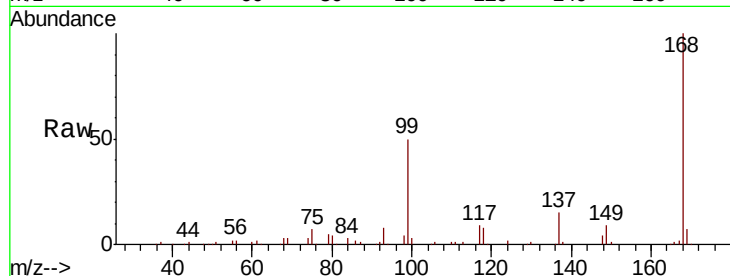
Tot Ion: 56 Resp: 4174

Ion Ratio Lower Upper

56 100

69 177.6 25.8 38.8#

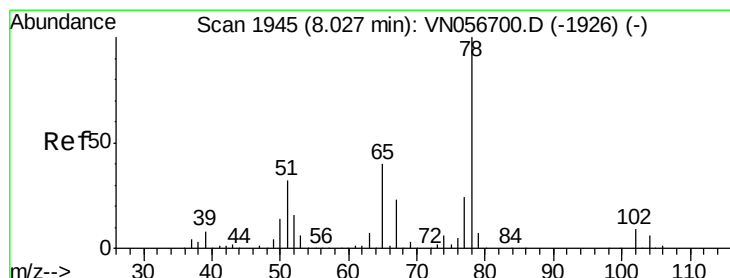
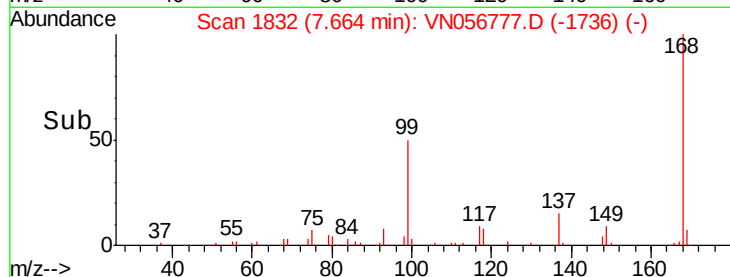
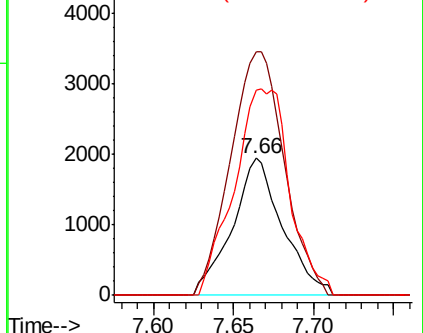
84 149.5 67.4 101.0#



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: 53.951 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056777.D

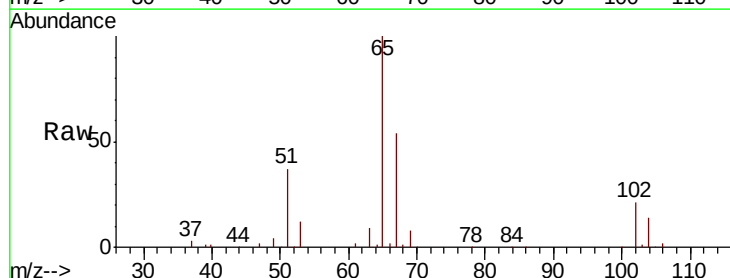
Acq: 16 Jul 2019 18:29

Tgt Ion: 65 Resp: 155350

Ion Ratio Lower Upper

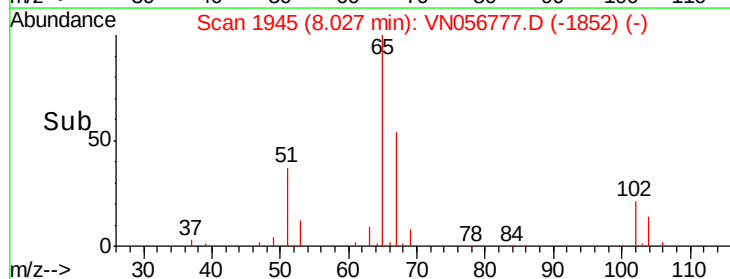
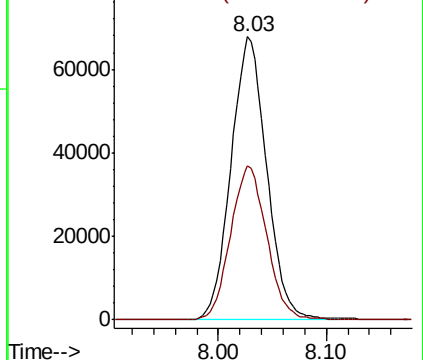
65 100

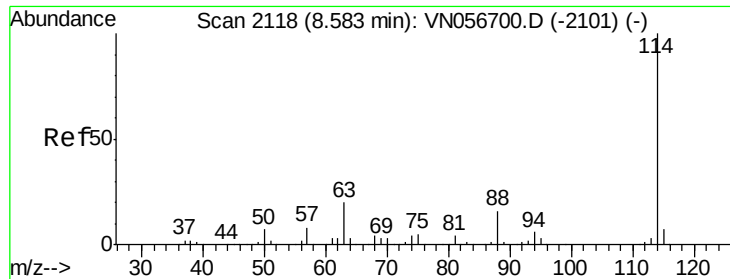
67 55.3 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

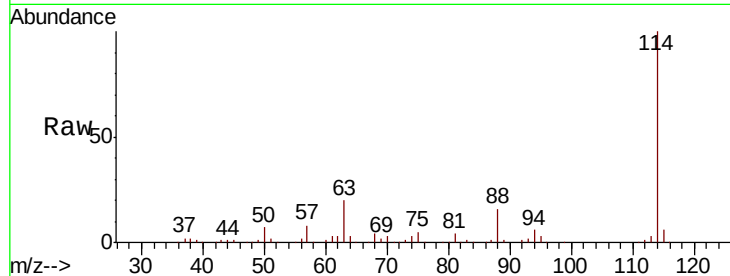




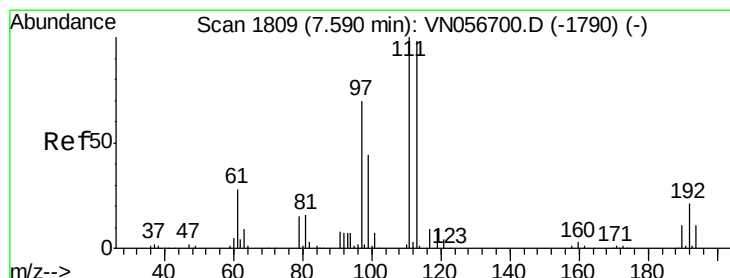
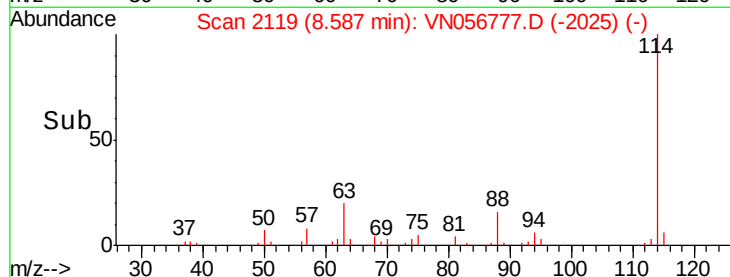
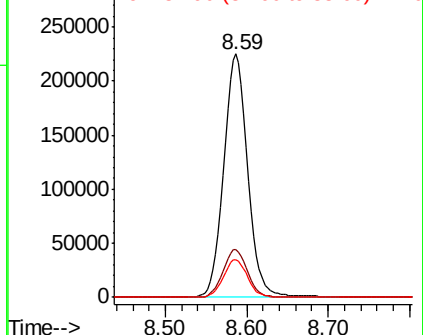
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

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OR-03-071519-A

Tot Ion:114 Resp: 469223
Ion Ratio Lower Upper
114 100
63 19.6 0.0 39.4
88 15.6 0.0 31.2

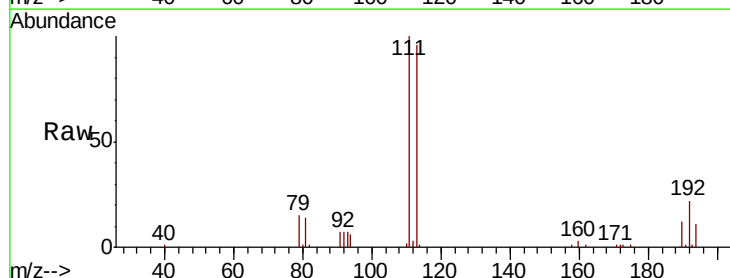


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

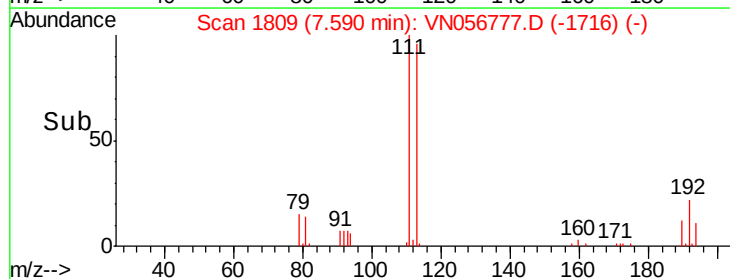
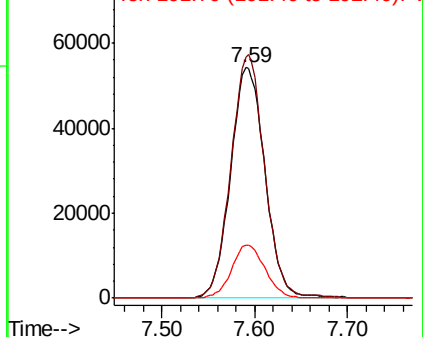


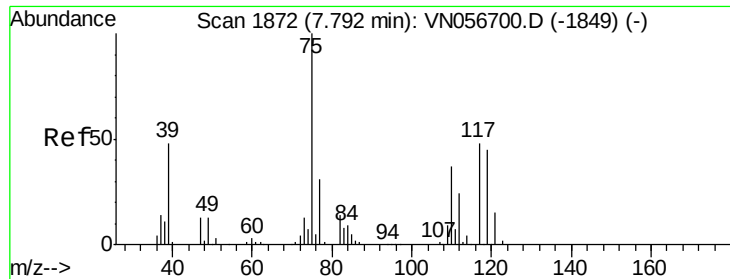
#35
Dibromofluoromethane
Concen: 47.978 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

Tgt Ion:113 Resp: 140098
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.6
192 22.3 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

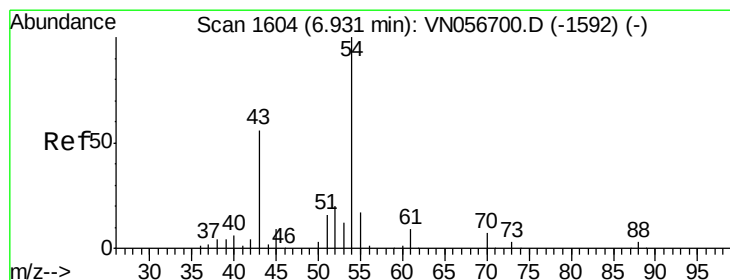
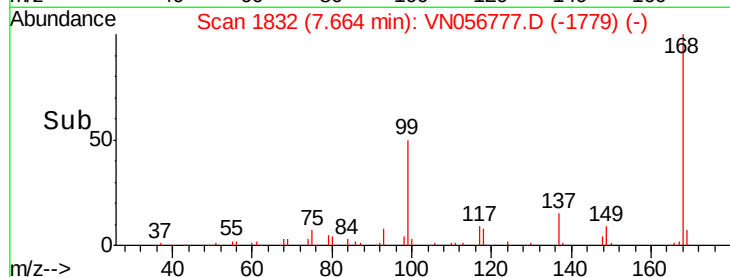
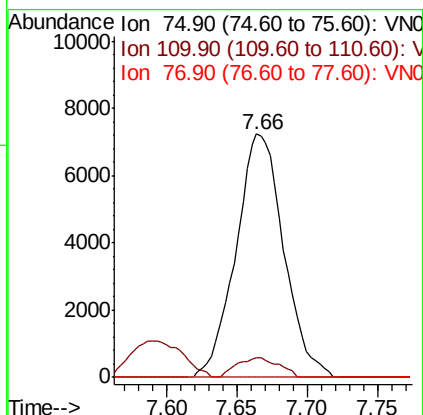
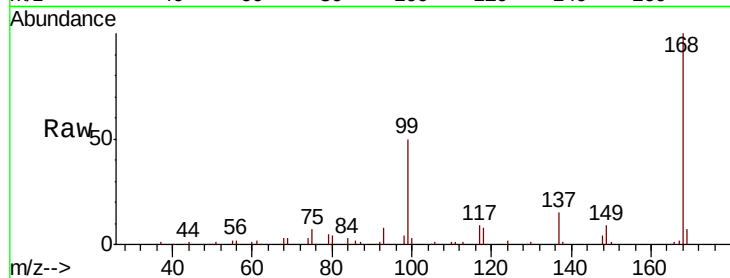




#36
 1,1-Dichloropropene
 Concen: 3.941 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056777.D
 Acq: 16 Jul 2019 18:29

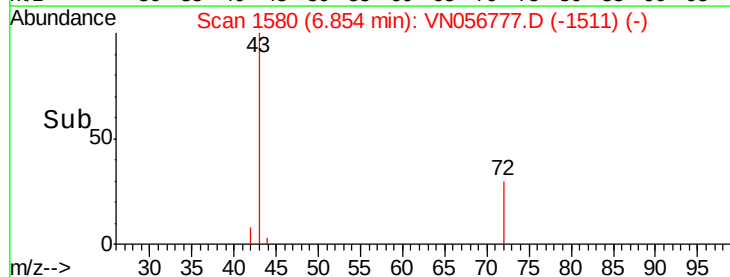
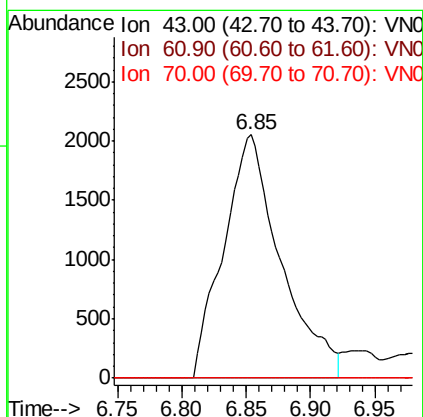
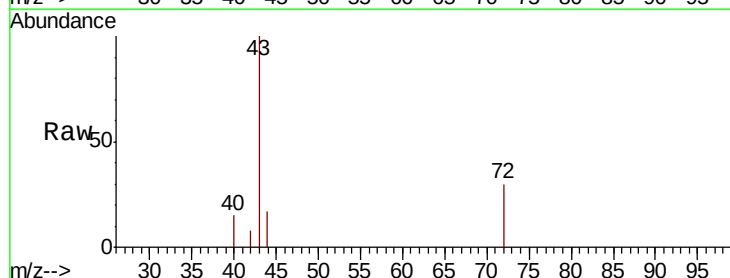
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-071519-A

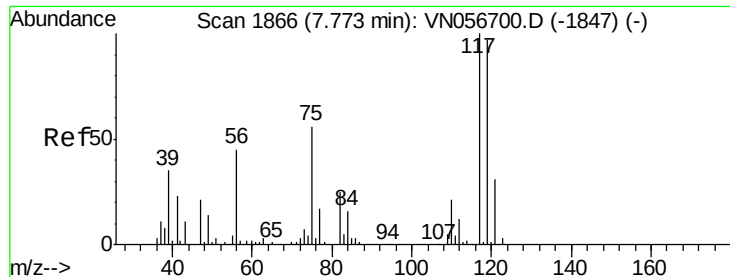
Tot Ion: 75 Resp: 17113
 Ion Ratio Lower Upper
 75 100
 110 7.1 18.4 55.4#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.481 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. -0.08 min
 Lab File: VN056777.D
 Acq: 16 Jul 2019 18:29

Tgt Ion: 43 Resp: 6336
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.3 16.9#
 70 0.0 8.5 12.7#





#38

Carbon Tetrachloride

Concen: 5.493 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

OR-03-071519-A

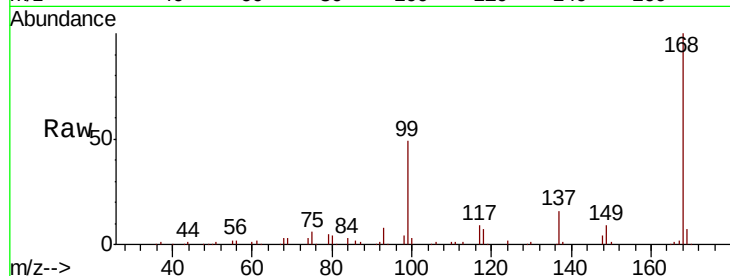
Tot Ion:117 Resp: 22367

Ion Ratio Lower Upper

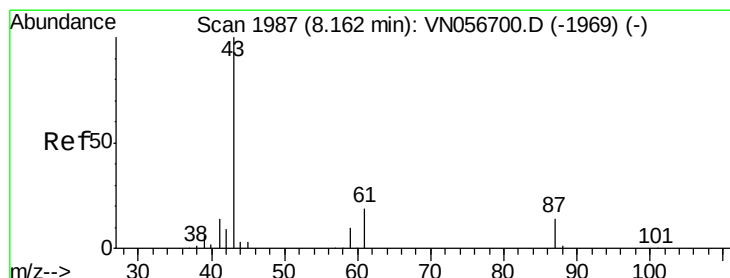
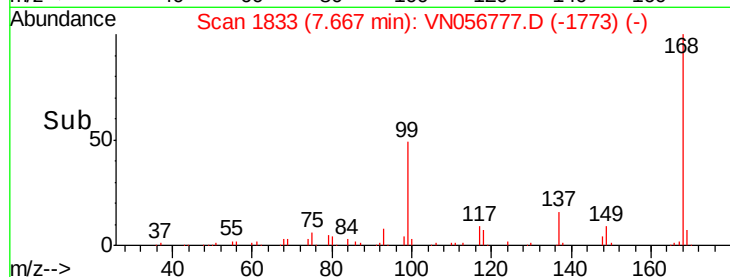
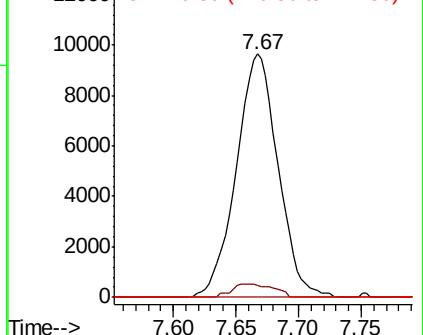
117 100

119 4.7 77.5 116.3#

121 0.0 24.7 37.1#



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: 2.152 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

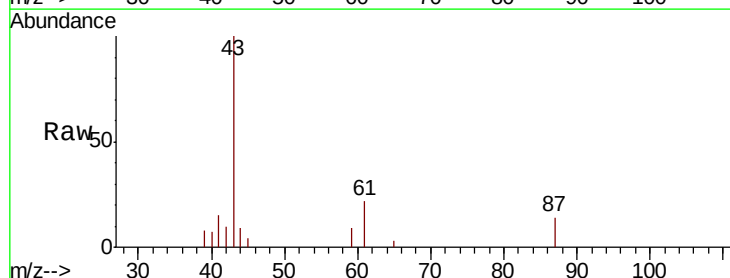
Tgt Ion: 43 Resp: 14476

Ion Ratio Lower Upper

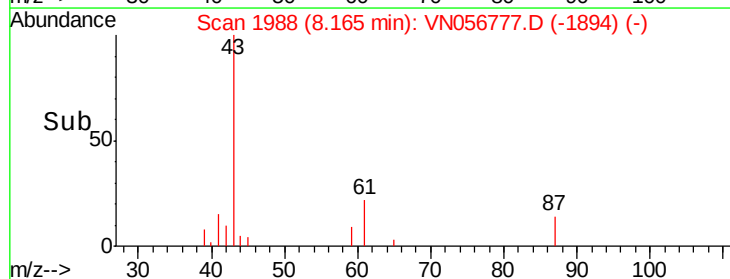
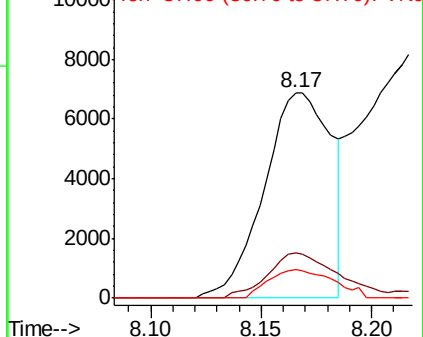
43 100

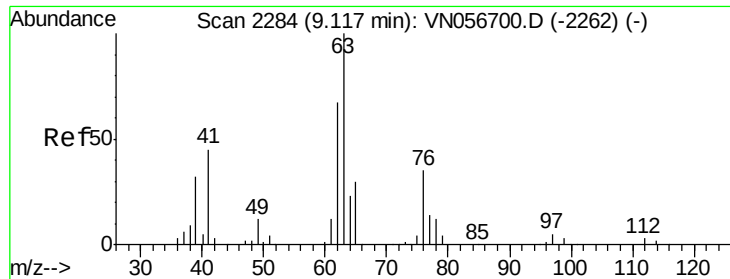
61 23.1 22.3 33.5

87 13.4 11.1 16.7



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

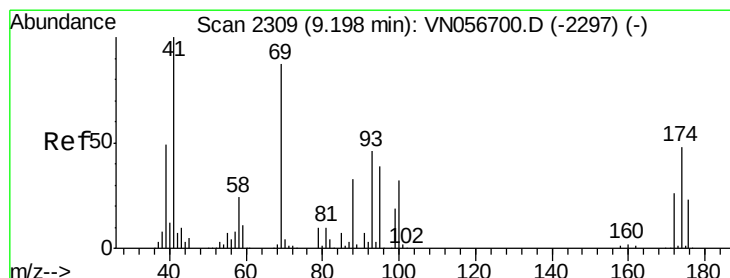
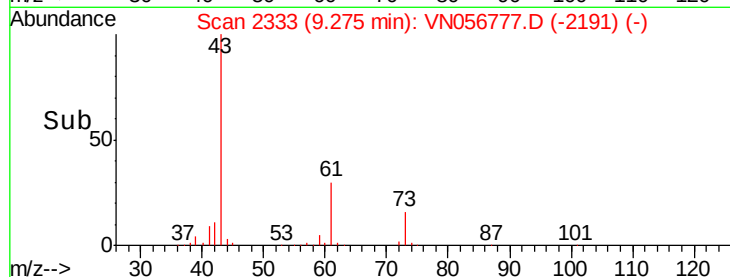
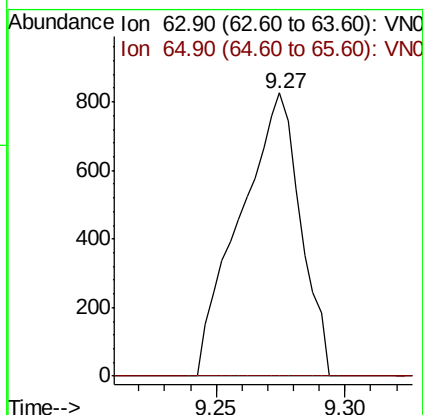
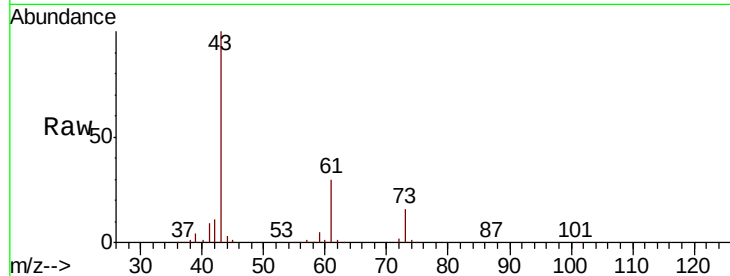




#45
 1,2-Dichloropropane
 Concen: 0.382 ug/l
 RT: 9.27 min Scan# 2333
 Delta R.T. 0.16 min
 Lab File: VN056777.D
 Acq: 16 Jul 2019 18:29

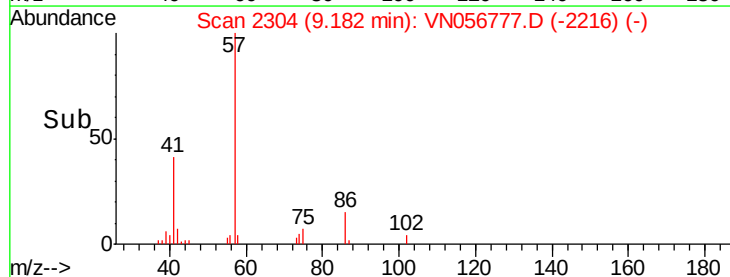
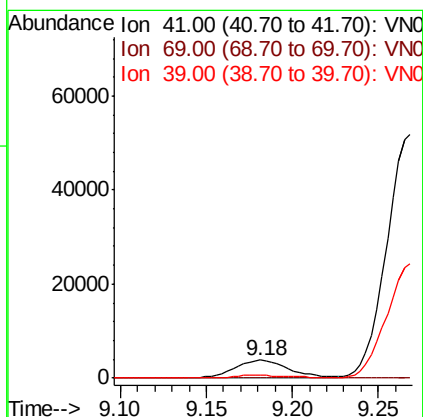
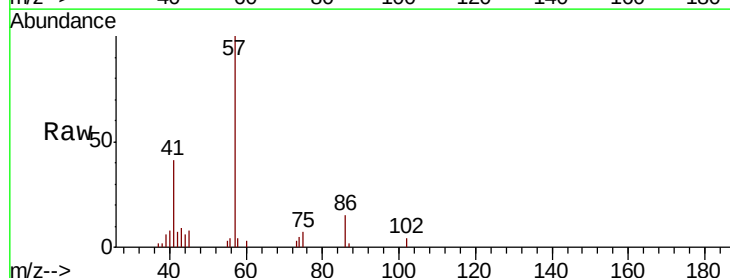
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-071519-A

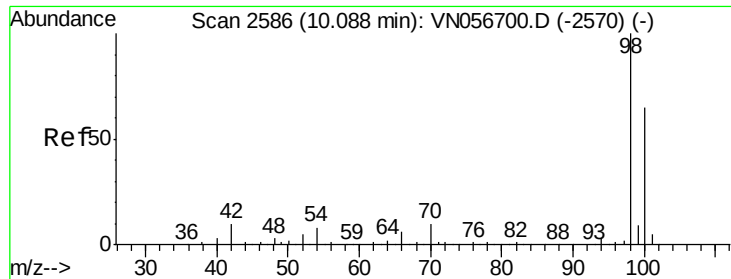
Tot Ion: 63 Resp: 1352
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.627 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN056777.D
 Acq: 16 Jul 2019 18:29

Tgt Ion: 41 Resp: 8548
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 16.6 41.2 61.8#





#50

Toluene-d8

Concen: 53.582 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

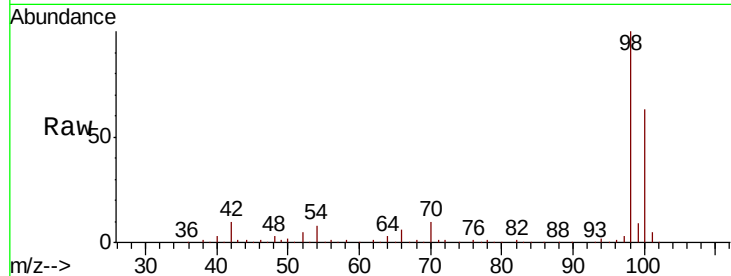
OR-03-071519-A

Tot Ion: 98 Resp: 604296

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

300000

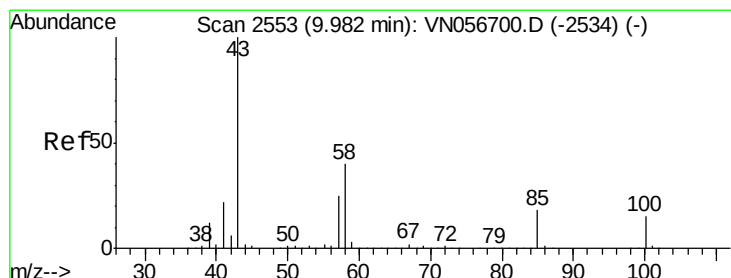
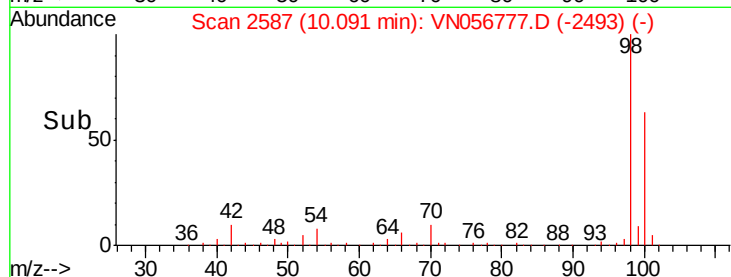
200000

100000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.765 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056777.D

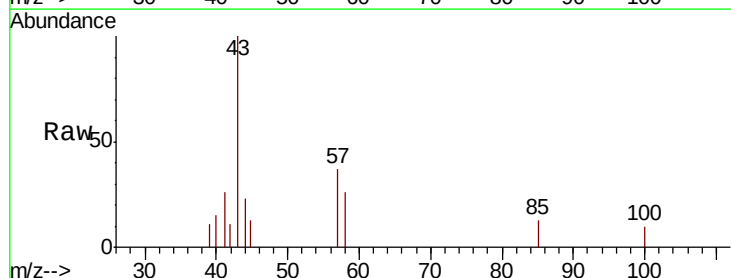
Acq: 16 Jul 2019 18:29

Tgt Ion: 43 Resp: 3335

Ion Ratio Lower Upper

43 100

58 37.1 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

3000

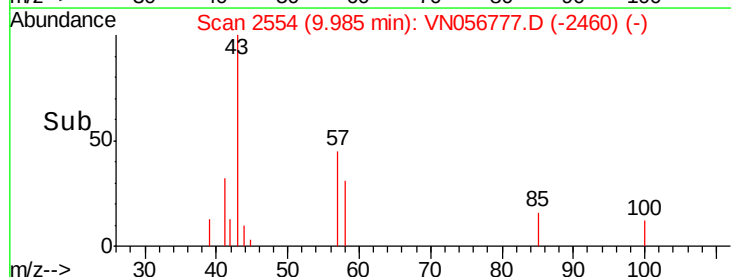
2000

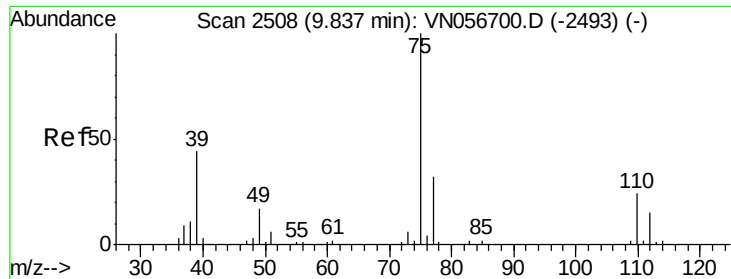
1000

0

Time-->

9.94 9.96 9.98 10.00

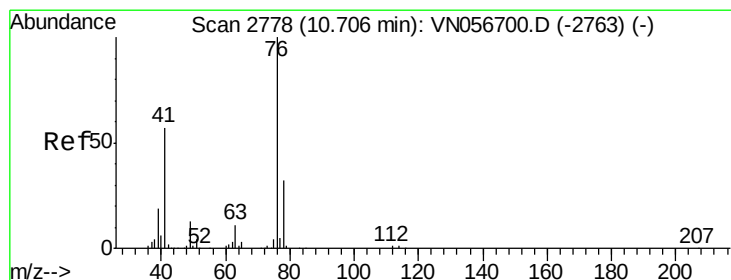
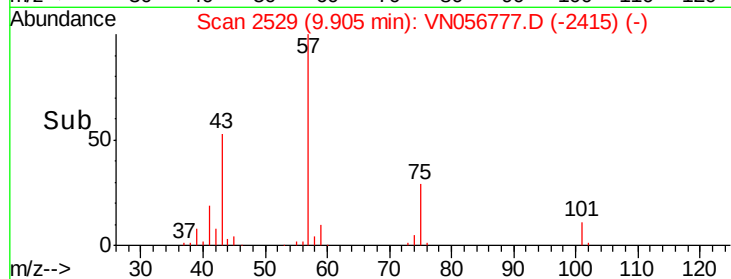
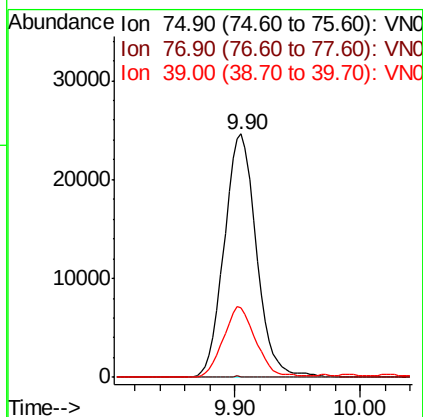
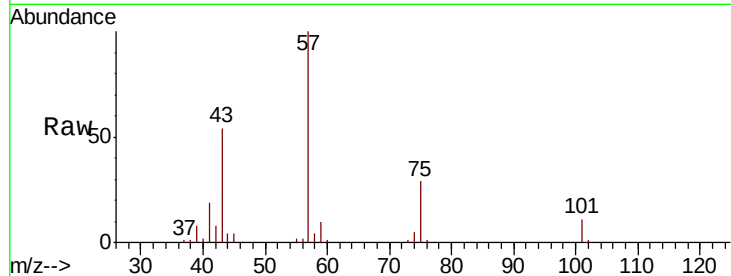




#54
 cis-1,3-Dichloropropene
 Concen: 8.696 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056777.D
 Acq: 16 Jul 2019 18:29

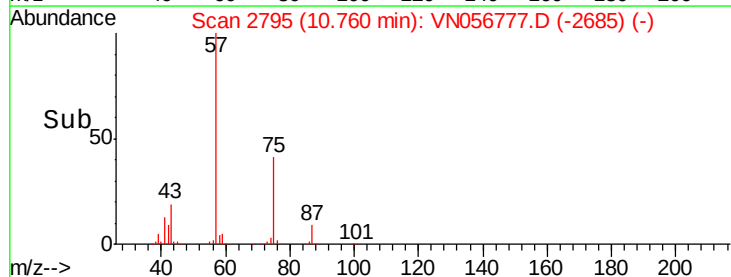
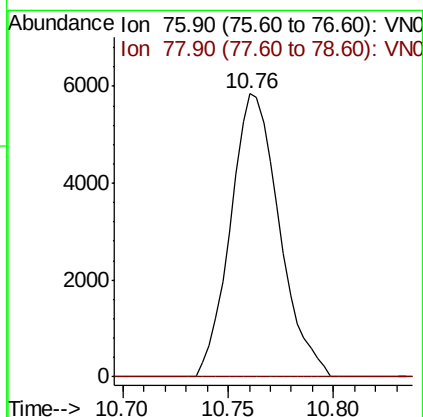
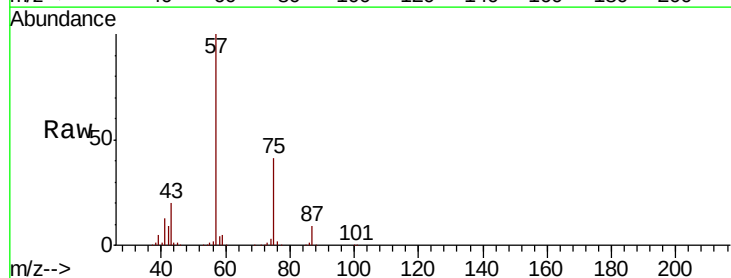
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-071519-A

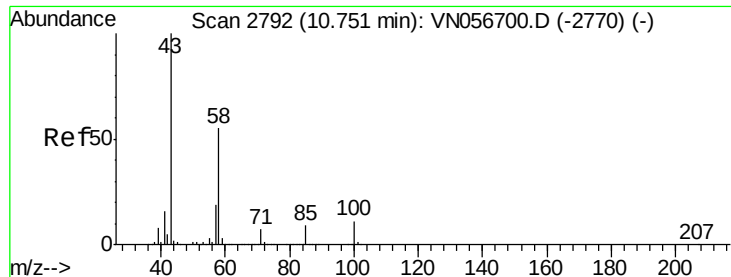
Tot Ion: 75 Resp: 43830
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 28.8 35.1 52.7#



#57
 1,3-Dichloropropane
 Concen: 1.736 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN056777.D
 Acq: 16 Jul 2019 18:29

Tgt Ion: 76 Resp: 9394
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

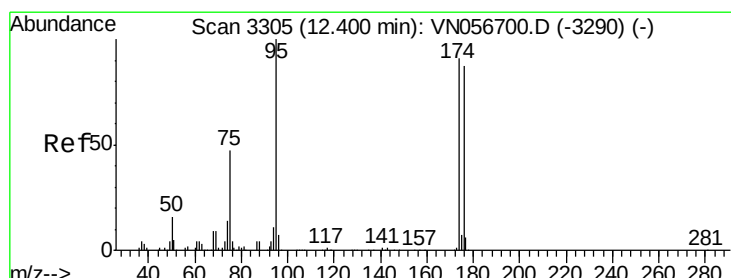
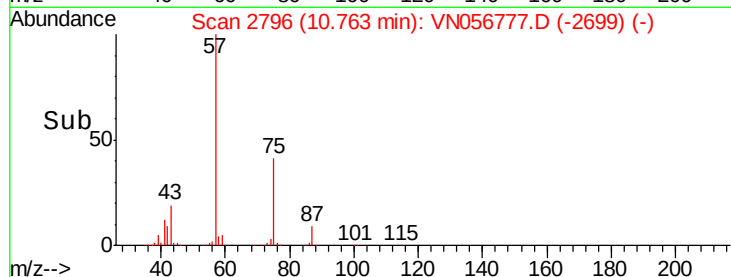
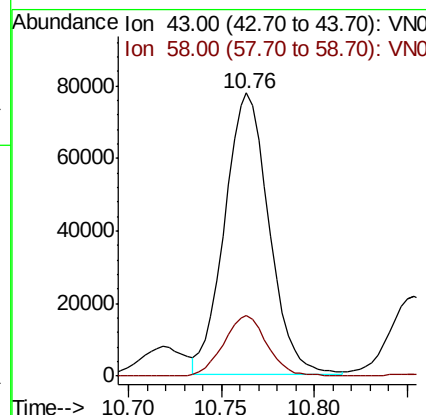
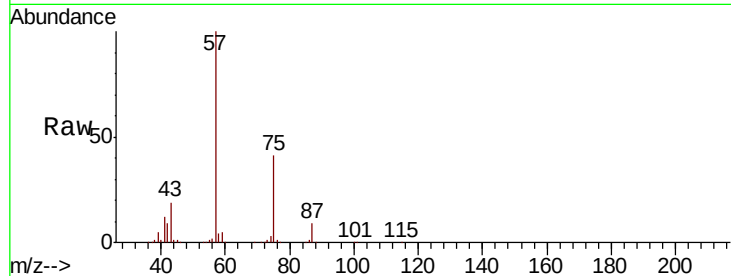




#59
2-Hexanone
Concen: 41.226 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

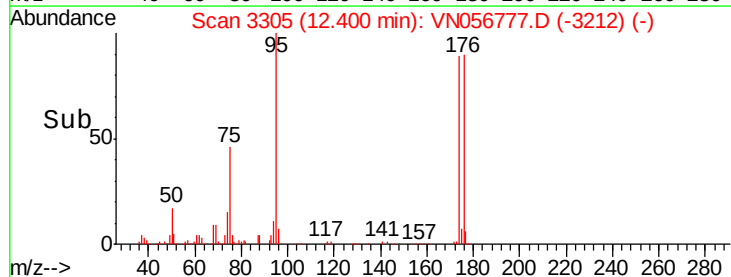
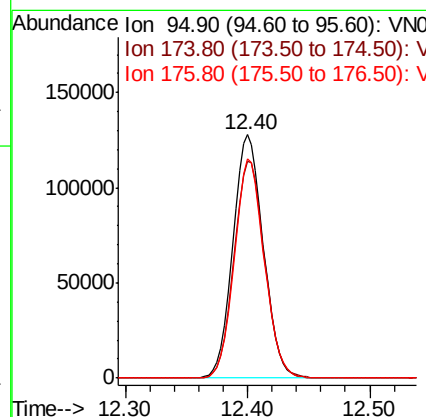
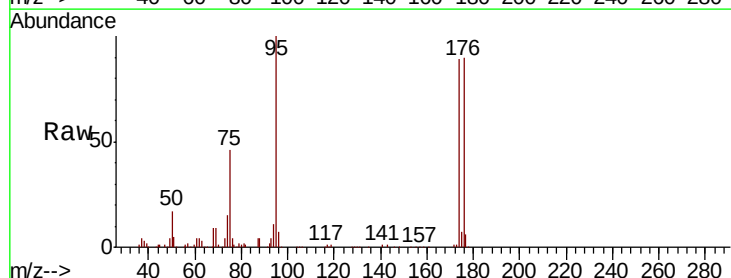
Instrument :
MSVOA_N
ClientSampleId :
OR-03-071519-A

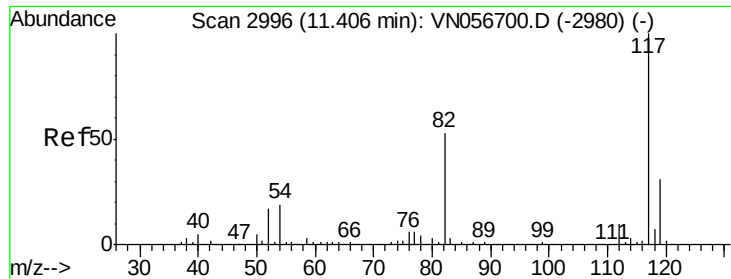
Tot Ion: 43 Resp: 128897
Ion Ratio Lower Upper
43 100
58 21.4 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.327 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

Tgt Ion: 95 Resp: 221838
Ion Ratio Lower Upper
95 100
174 89.9 0.0 180.0
176 88.3 0.0 173.2

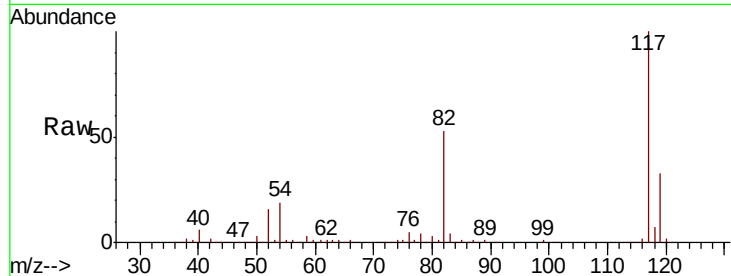




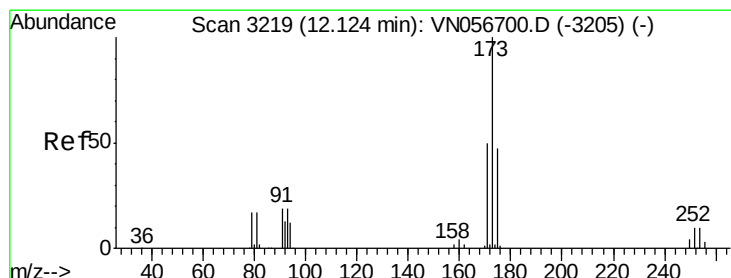
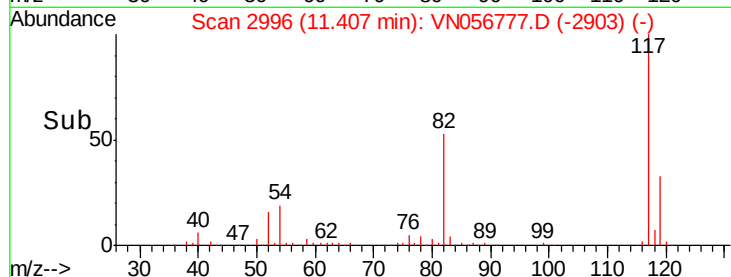
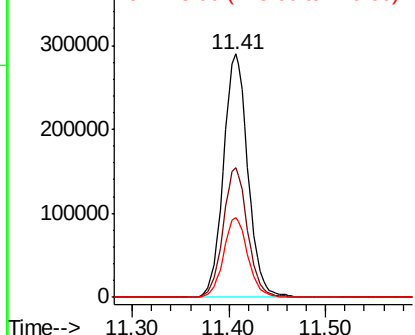
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

Instrument :
MSVOA_N
ClientSampleId :
OR-03-071519-A

Tot Ion:117 Resp: 508160
Ion Ratio Lower Upper
117 100
82 53.1 42.2 63.2
119 32.6 25.2 37.8

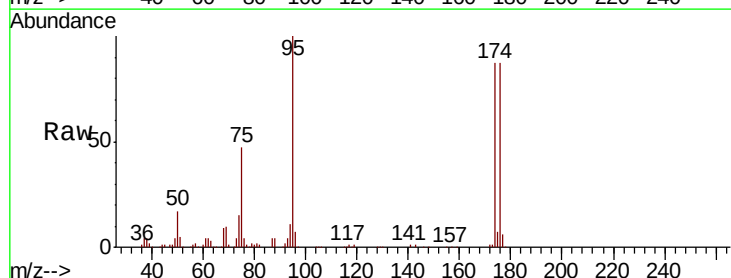


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

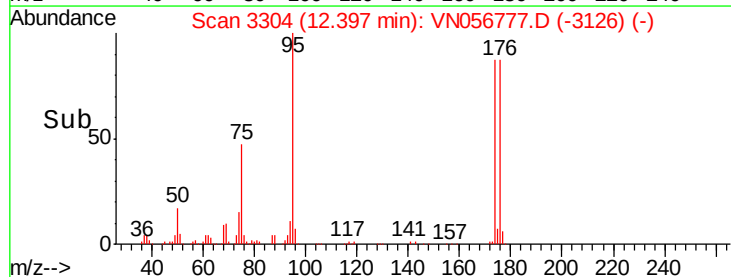
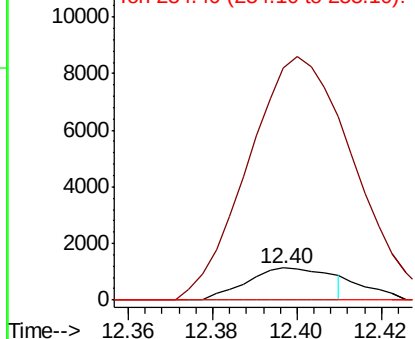


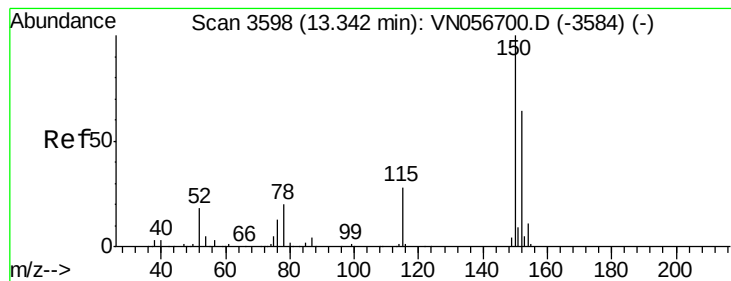
#71
Bromoform
Concen: 0.537 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056777.D
Acq: 16 Jul 2019 18:29

Tgt Ion:173 Resp: 1563
Ion Ratio Lower Upper
173 100
175 769.5 23.8 71.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

OR-03-071519-A

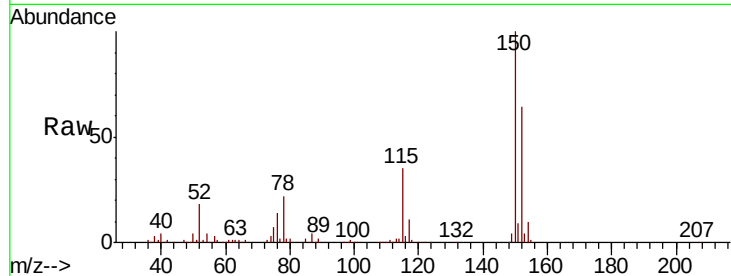
Tot Ion:152 Resp: 190448

Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.7

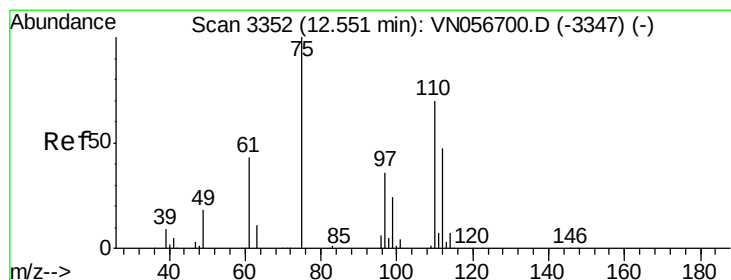
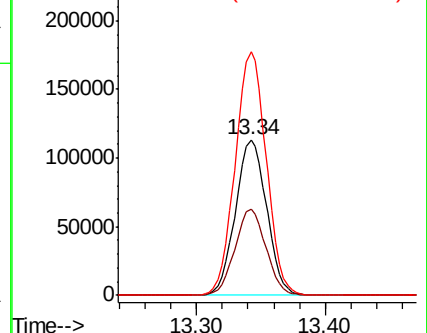
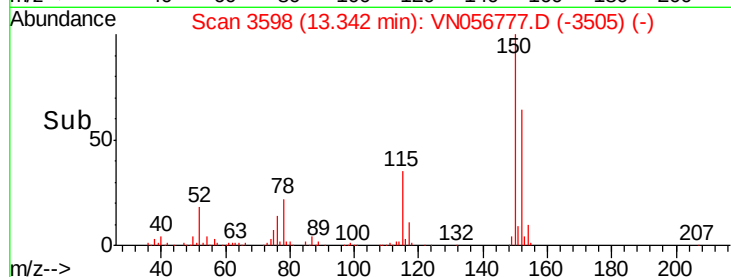
150 155.5 0.0 345.8



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



#76

1,2,3-Trichloropropane

Concen: 24.625 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056777.D

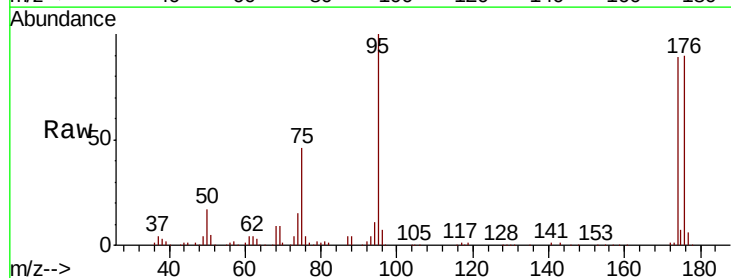
Acq: 16 Jul 2019 18:29

Tgt Ion: 75 Resp: 102573

Ion Ratio Lower Upper

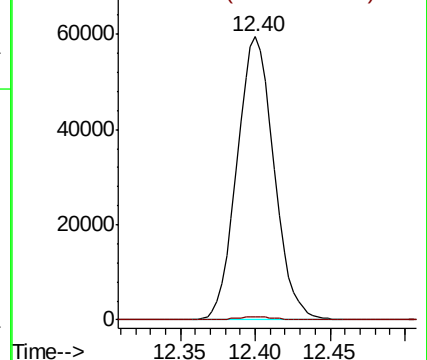
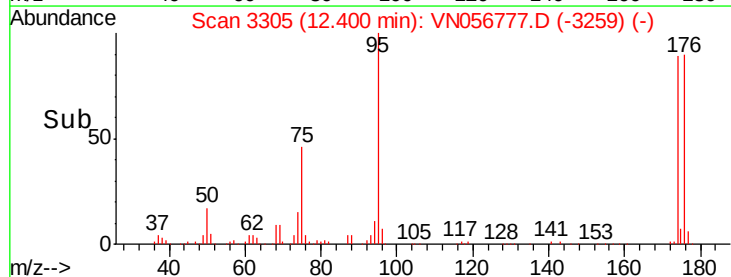
75 100

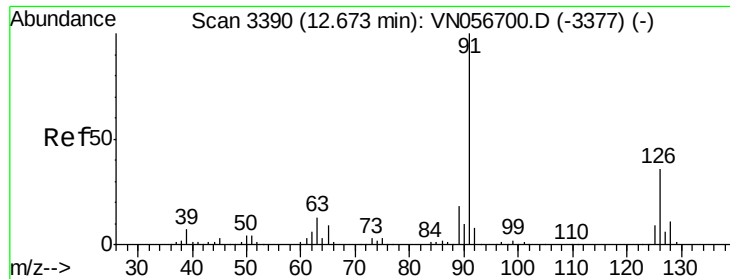
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

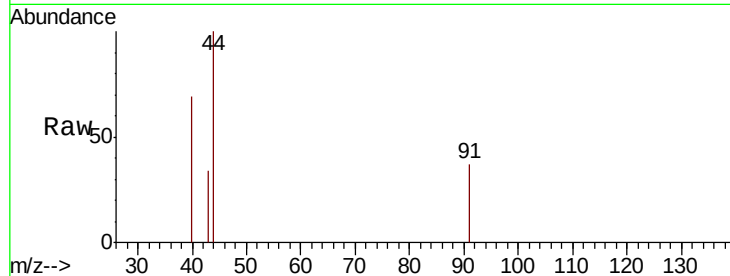
OR-03-071519-A

Tot Ion: 91 Resp: 101

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.59

200

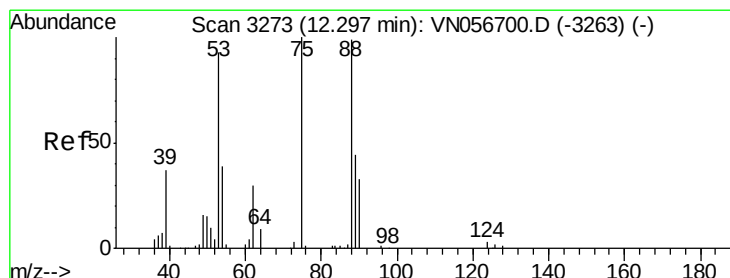
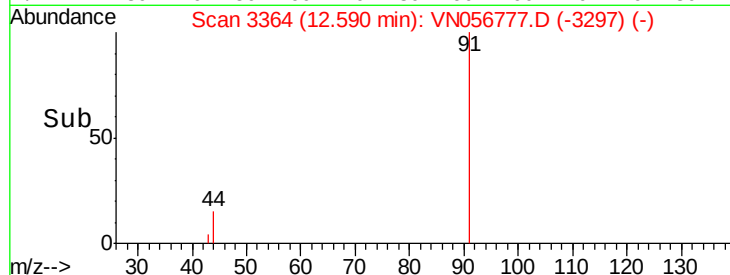
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.050 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

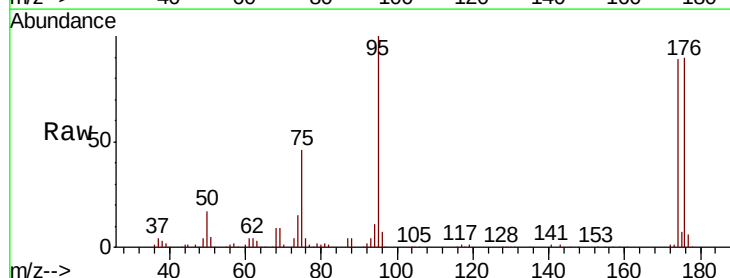
Tgt Ion: 75 Resp: 102573

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#



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

80000

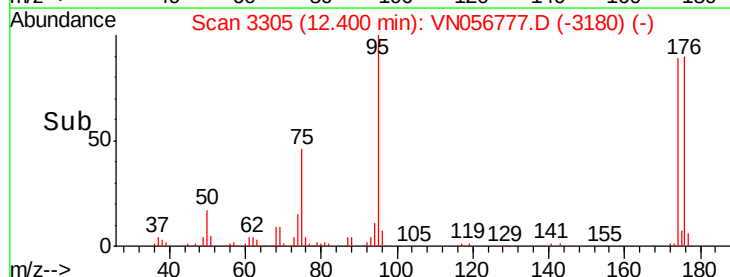
60000

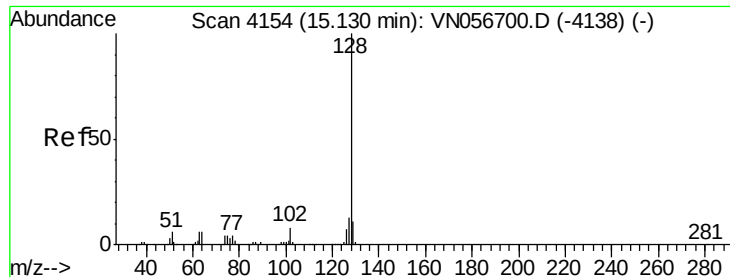
40000

20000

0

Time-->





#95

Naphthalene

Concen: 4.958 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056777.D

Acq: 16 Jul 2019 18:29

Instrument :

MSVOA_N

ClientSampleId :

OR-03-071519-A

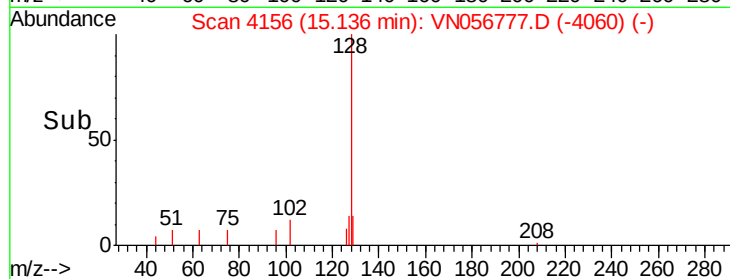
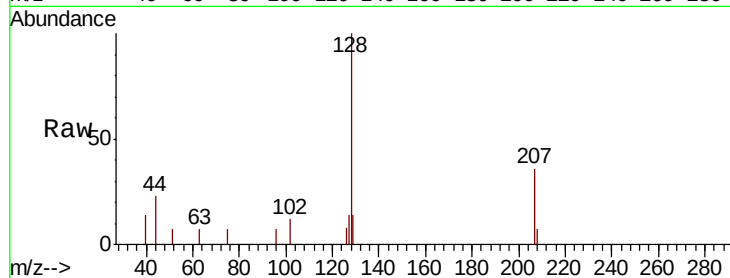
Tot Ion:128 Resp: 4849

Ion Ratio Lower Upper

128 100

127 10.3 10.3 15.5#

129 9.0 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

