

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052366.D
 Acq On : 16 Nov 2018 15:53
 Operator : MD\SY
 Sample : J5966-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 RAV-GT103

Quant Time: Nov 16 22:40:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	303208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	503757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	416073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146776	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	217576	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
35) Dibromofluoromethane	7.59	113	162595	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	10.09	98	627801	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	12.40	95	183226	43.57	ug/l	0.00
Spiked Amount			Recovery	=	87.14%	

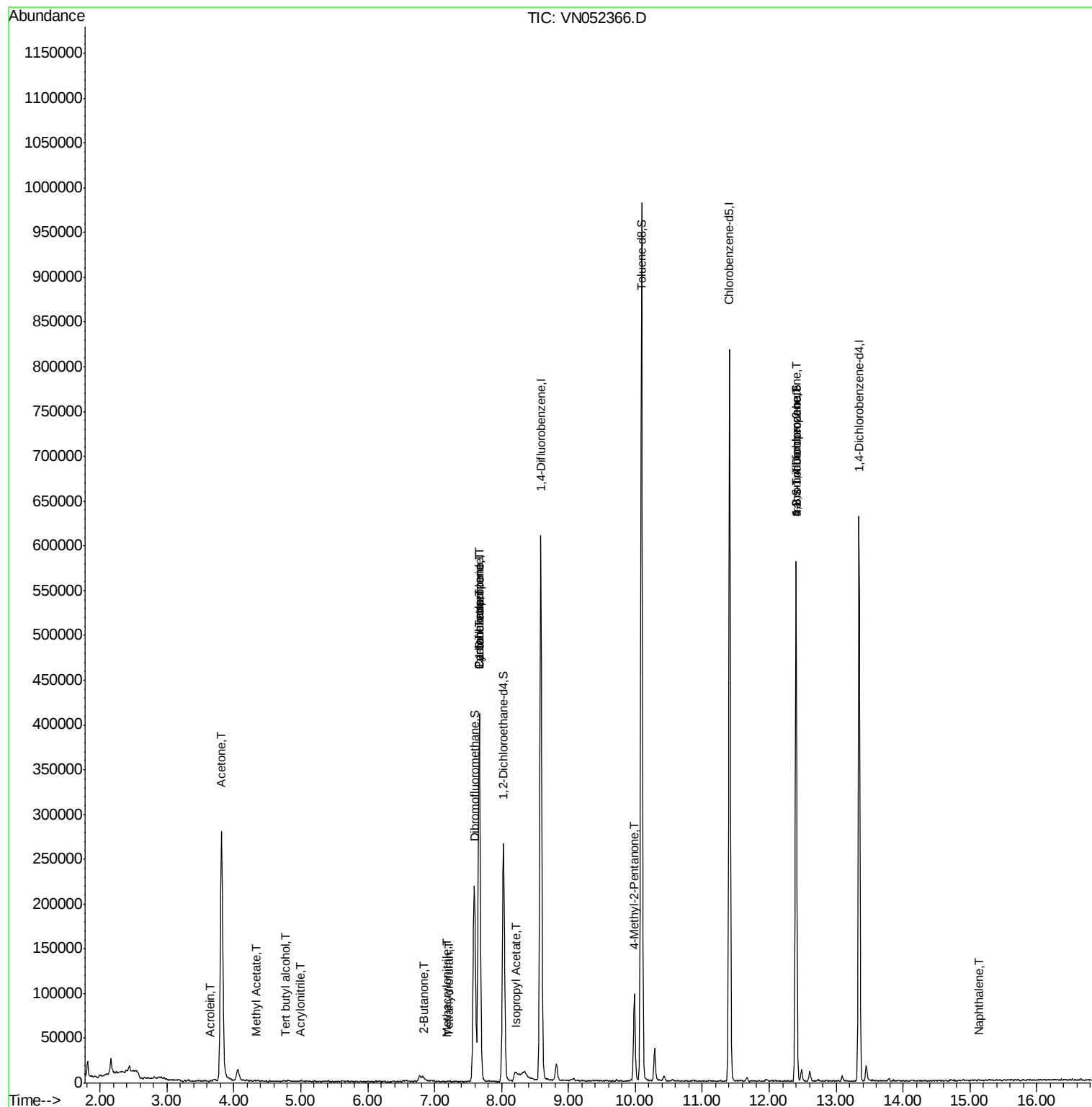
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	332	1.468	ug/l #	72
13) Acrolein	3.63	56	62	21.936	ug/l #	64
15) Acrylonitrile	5.00	53	593	0.459	ug/l #	38
16) Acetone	3.82	43	476551	404.166	ug/l	93
18) Methyl Acetate	4.33	43	248	0.506	ug/l #	57
25) 2-Butanone	6.84	43	1998	1.204	ug/l #	81
29) Tetrahydrofuran	7.22	42	395	0.362	ug/l #	40
31) Cyclohexane	7.66	56	9550	0.415	ug/l #	49
36) 1,1-Dichloropropene	7.67	75	28748	5.694	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33216	7.160	ug/l #	16
41) Methacrylonitrile	7.19	41	194	3.784	ug/l #	100
43) Isopropyl Acetate	8.21	43	6726	0.951	ug/l #	67
51) 4-Methyl-2-Pentanone	9.99	43	68962	19.375	ug/l	97
76) 1,2,3-Trichloropropane	12.40	75	103633	41.611	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	103633	134.961	ug/l #	5
95) Naphthalene	15.13	128	208	2.642	ug/l #	84

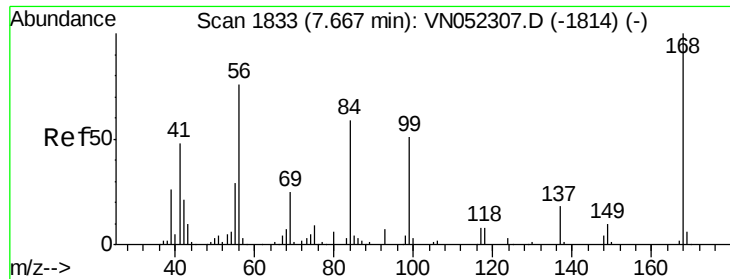
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
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: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

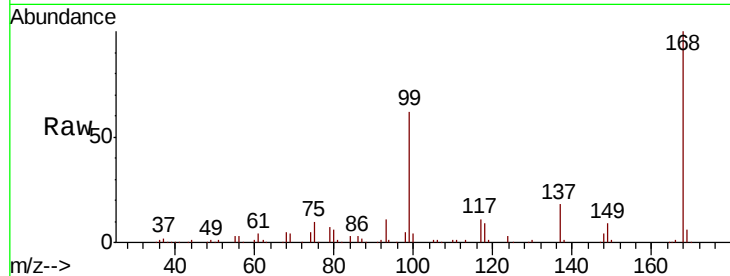
RAV-GT103

Tot Ion:168 Resp: 303208

Ion Ratio Lower Upper

168 100

99 61.7 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

150000

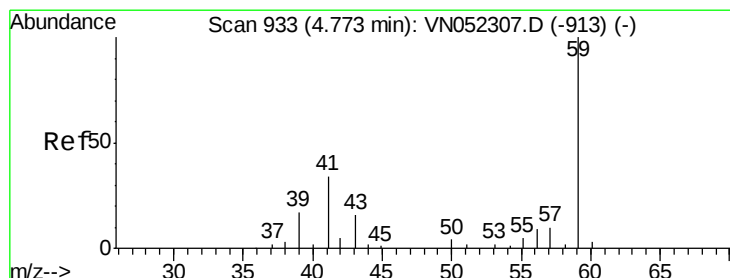
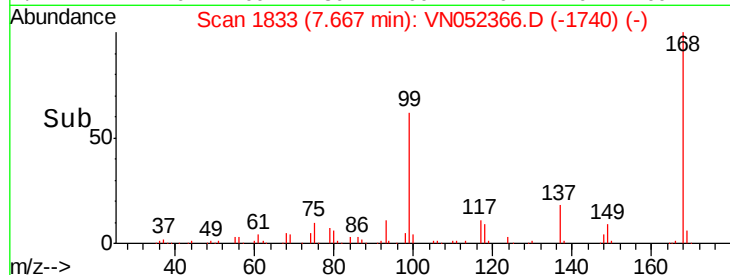
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 1.468 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.00 min

Lab File: VN052366.D

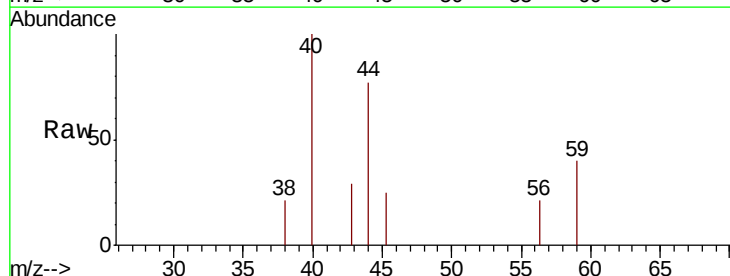
Acq: 16 Nov 2018 15:53

Tgt Ion: 59 Resp: 332

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)

4.77

400

300

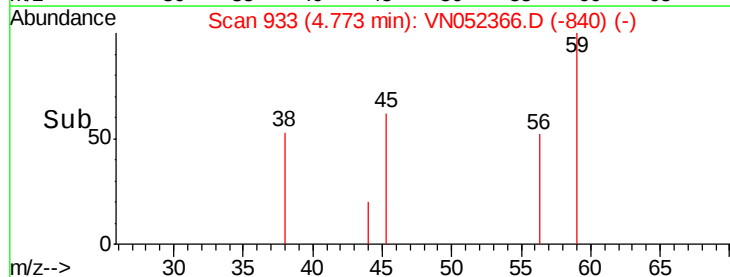
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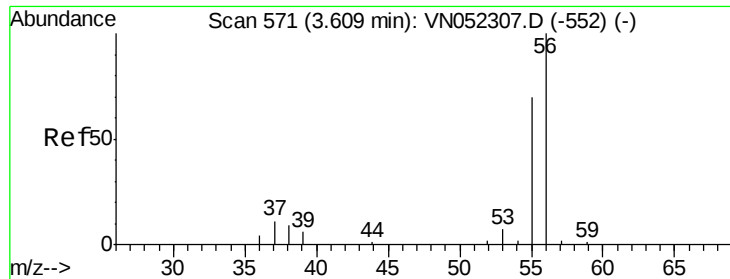
100

0

4.75 4.76 4.77 4.78

Time-->





#13

Acrolein

Concen: 21.936 ug/l

RT: 3.63 min Scan# 578

Delta R.T. 0.02 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

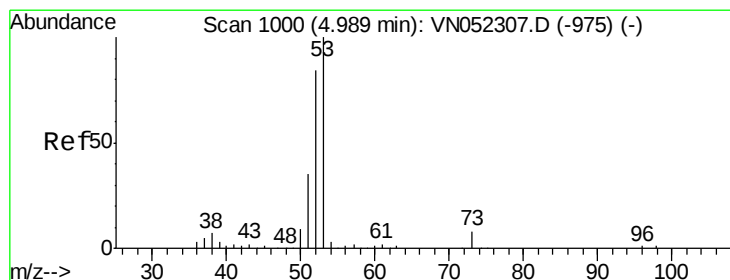
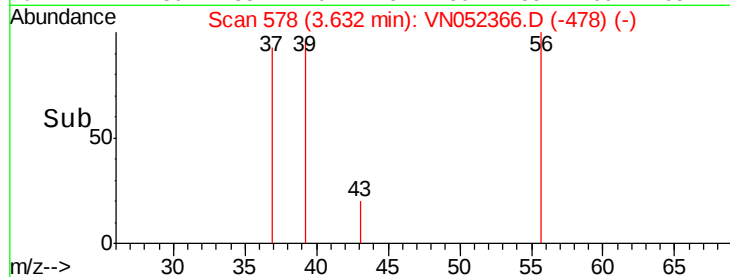
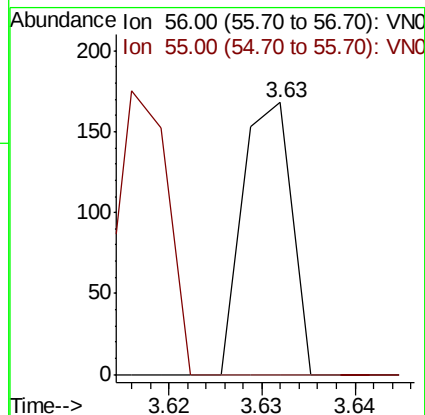
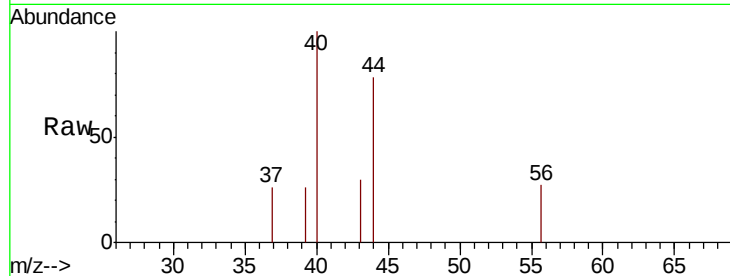
RAV-GT103

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 101.6 57.6 86.4#



#15

Acrylonitrile

Concen: 0.459 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

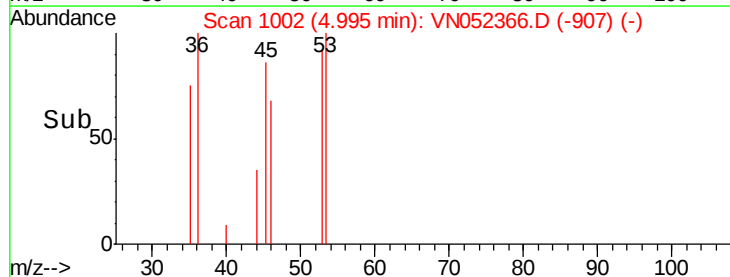
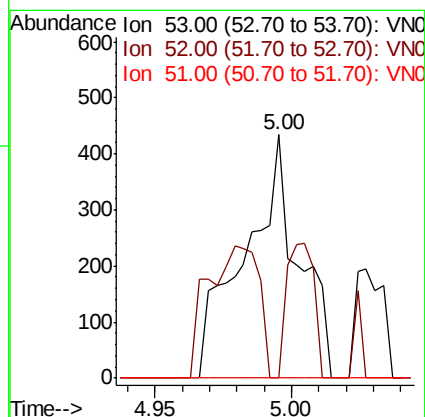
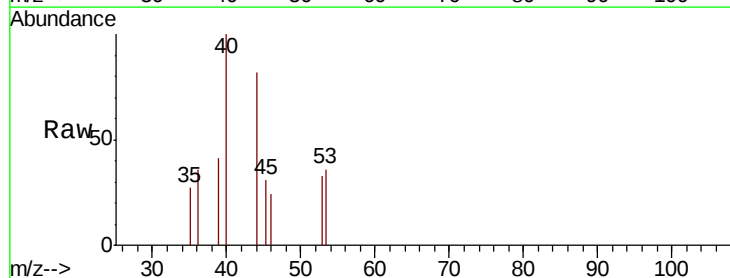
Tgt Ion: 53 Resp: 593

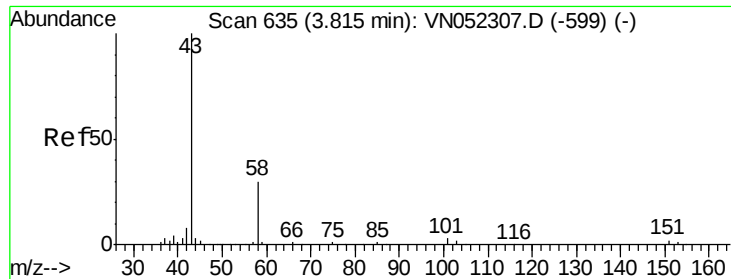
Ion Ratio Lower Upper

53 100

52 28.5 67.5 101.3#

51 0.0 29.9 44.9#





#16

Acetone

Concen: 404.166 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

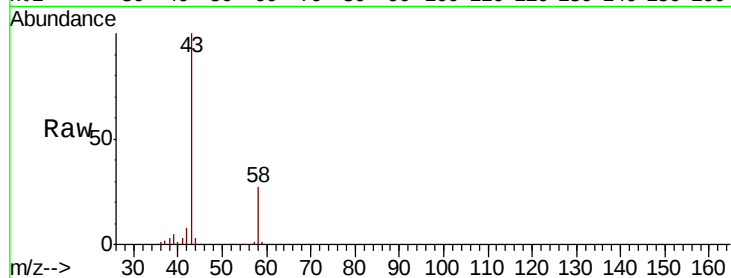
RAV-GT103

Tot Ion: 43 Resp: 476551

Ion Ratio Lower Upper

43 100

58 26.7 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-599) (-)

3.82

200000

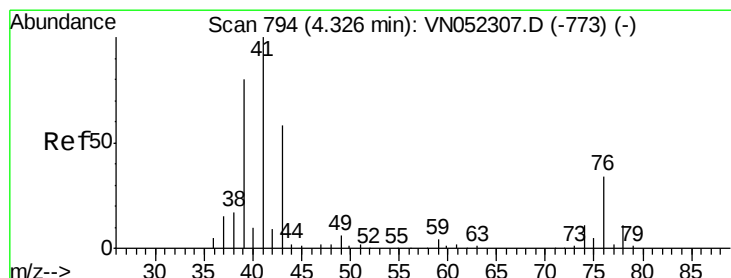
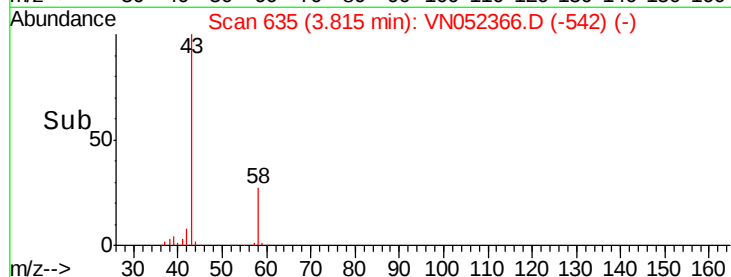
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 0.506 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052366.D

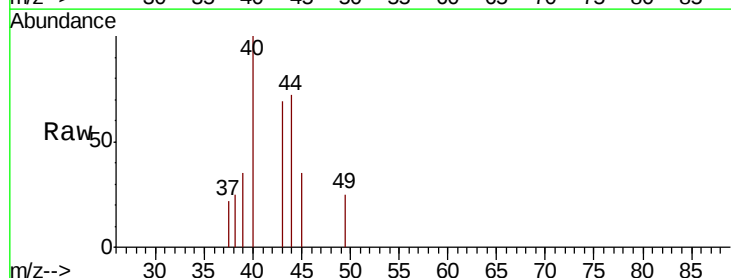
Acq: 16 Nov 2018 15:53

Tgt Ion: 43 Resp: 248

Ion Ratio Lower Upper

43 100

74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-773) (-)

Ion 74.00 (73.70 to 74.70): VN052307.D (-773) (-)

4.33

600

500

400

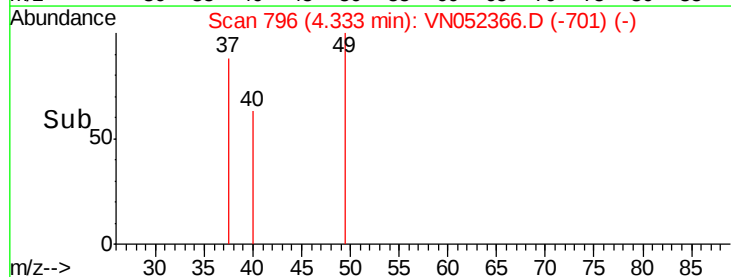
300

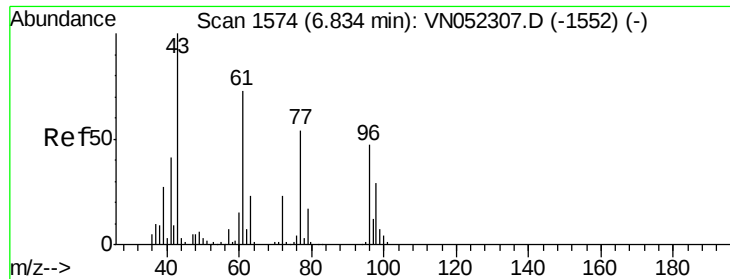
200

100

0

Time-->





#25

2-Butanone

Concen: 1.204 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampled :

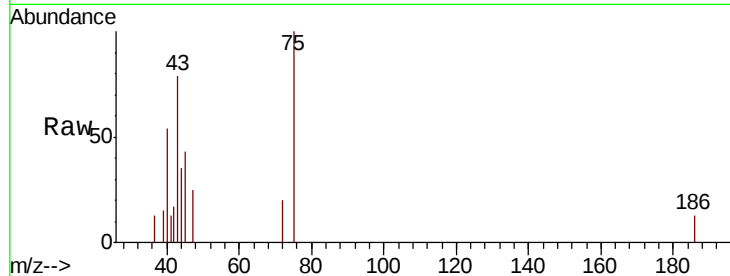
RAV-GT103

Tot Ion: 43 Resp: 1998

Ion Ratio Lower Upper

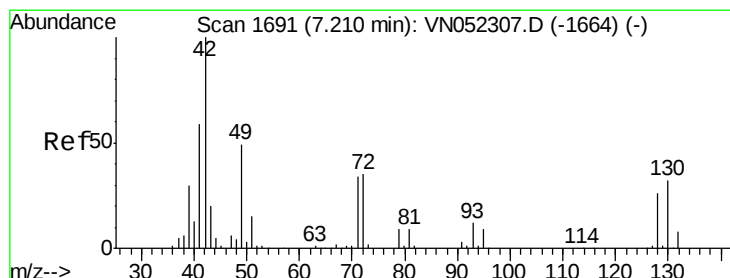
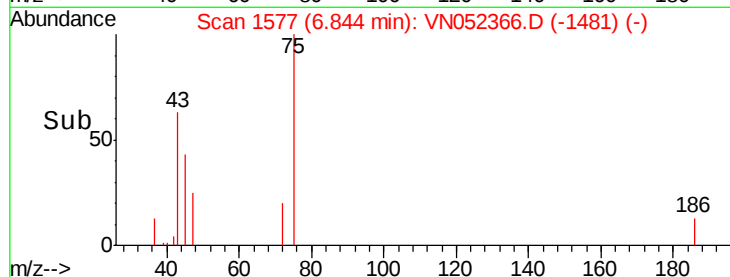
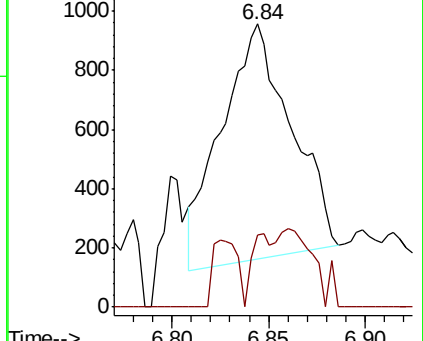
43 100

72 32.4 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.362 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

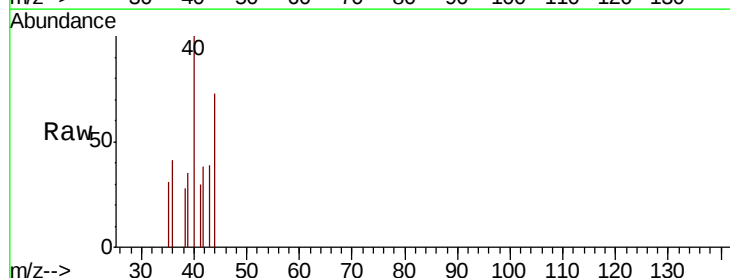
Tgt Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

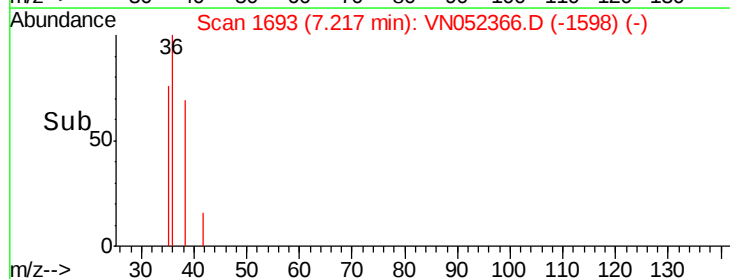
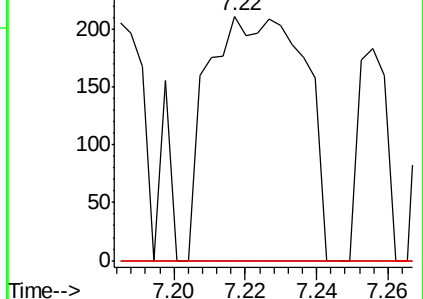
71 0.0 26.7 40.1#

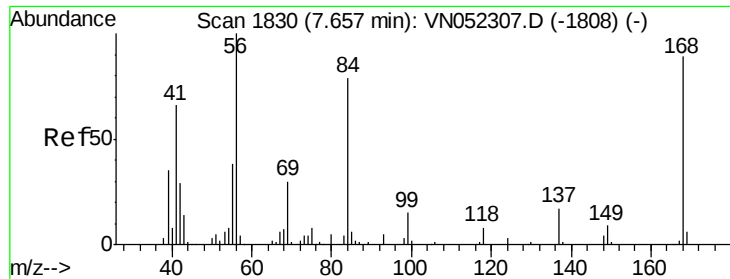


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

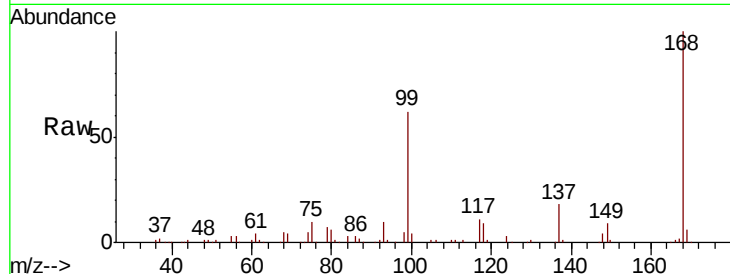




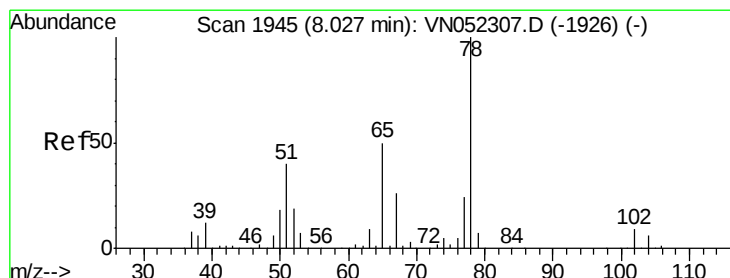
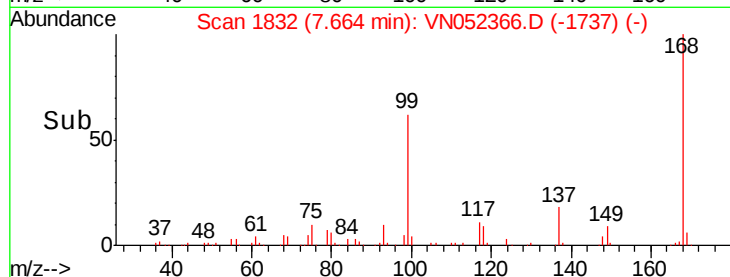
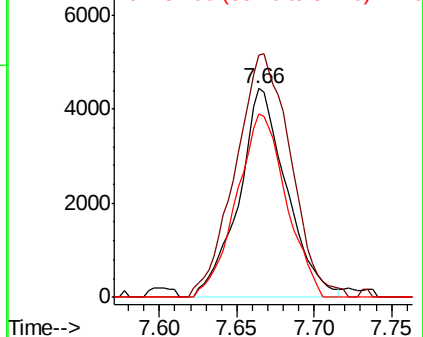
#31
Cyclohexane
Concen: 0.415 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052366.D
Acq: 16 Nov 2018 15:53

Instrument :
MSVOA_N
ClientSampleId :
RAV-GT103

Tot Ion: 56 Resp: 9550
Ion Ratio Lower Upper
56 100
69 116.0 23.8 35.8#
84 87.9 63.0 94.6

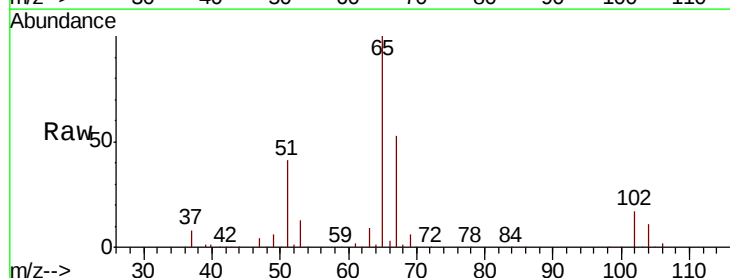


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

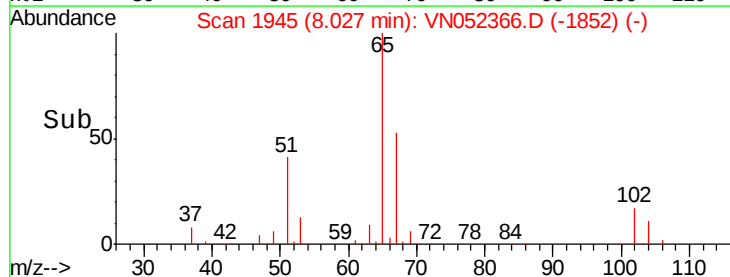
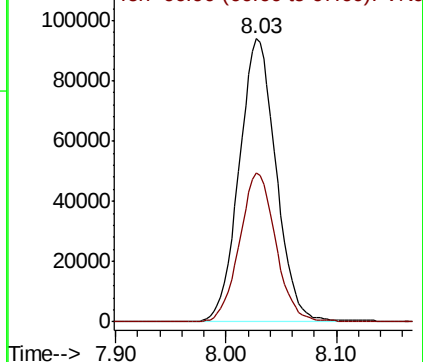


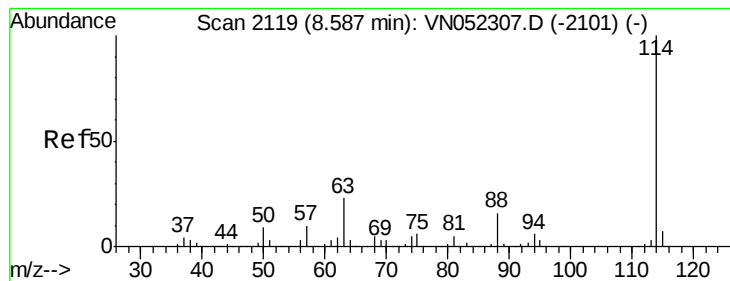
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052366.D
Acq: 16 Nov 2018 15:53

Tgt Ion: 65 Resp: 217576
Ion Ratio Lower Upper
65 100
67 51.8 0.0 105.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

RAV-GT103

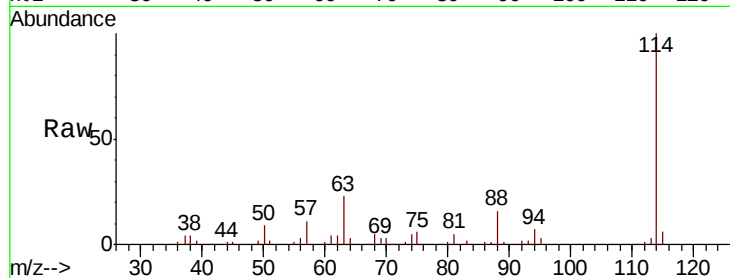
Tot Ion:114 Resp: 503757

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.4

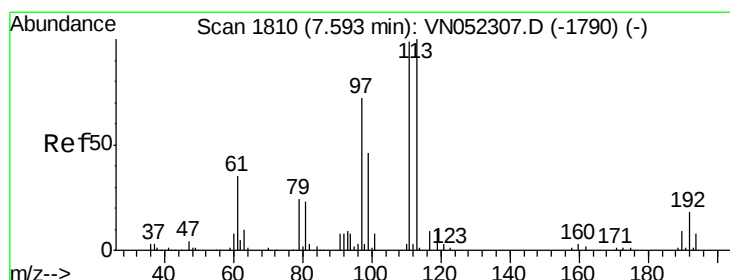
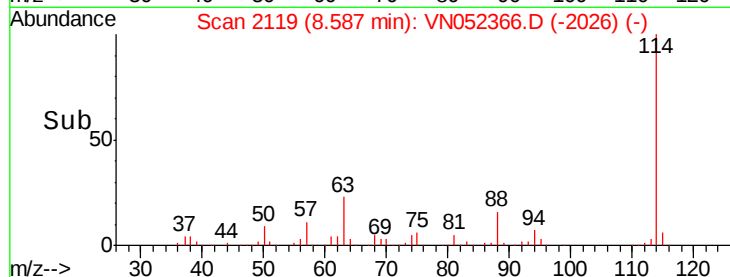
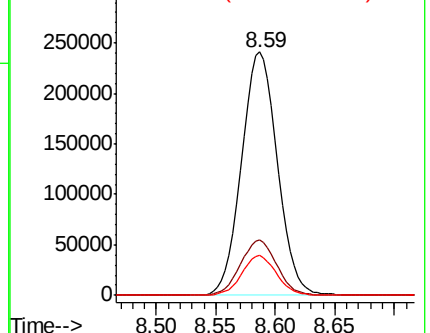
88 16.5 0.0 31.2



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

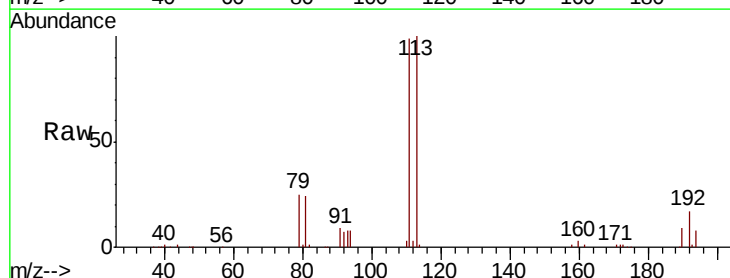
Tgt Ion:113 Resp: 162595

Ion Ratio Lower Upper

113 100

111 102.1 81.0 121.6

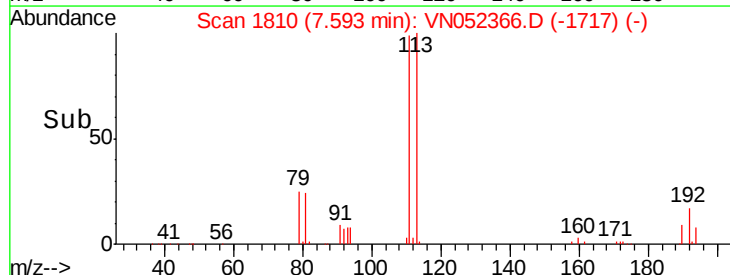
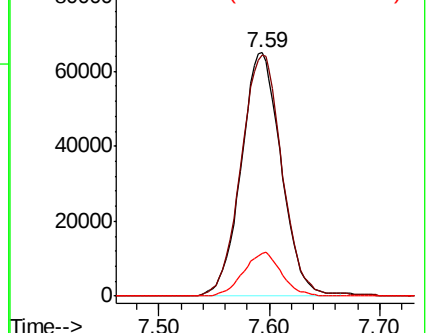
192 17.3 13.8 20.6

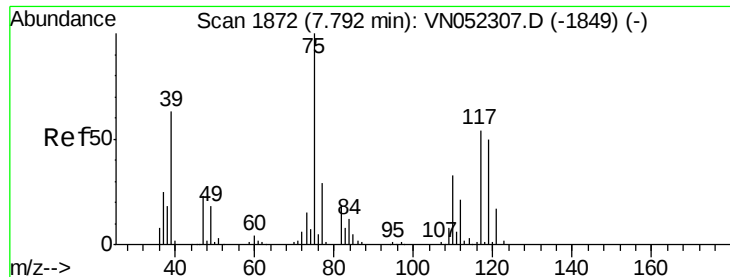


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

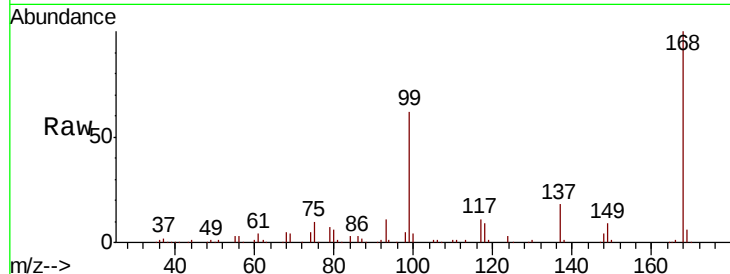




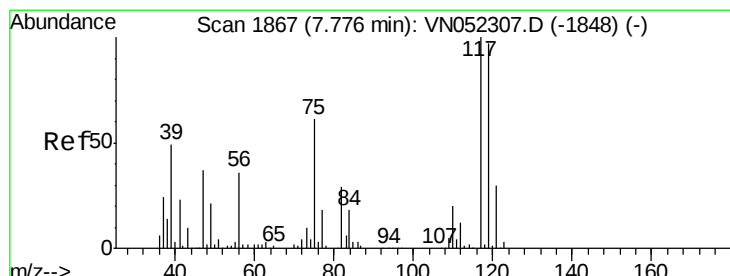
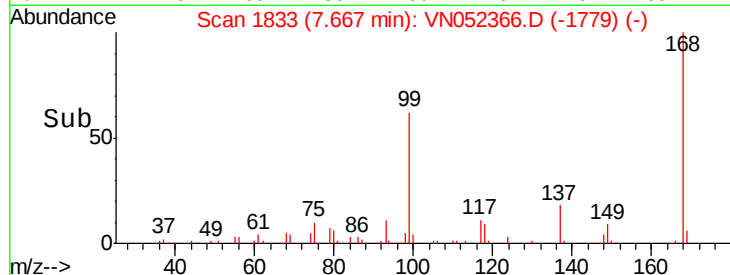
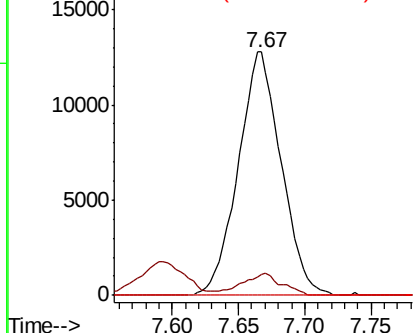
#36
 1,1-Dichloropropene
 Concen: 5.694 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052366.D
 Acq: 16 Nov 2018 15:53

Instrument :
 MSVOA_N
 ClientSampleId :
 RAV-GT103

Tot Ion	75	Resp	28748
Ion Ratio	Lower	Upper	
75	100		
110	8.2	16.5	49.5#
77	0.0	24.2	36.2#

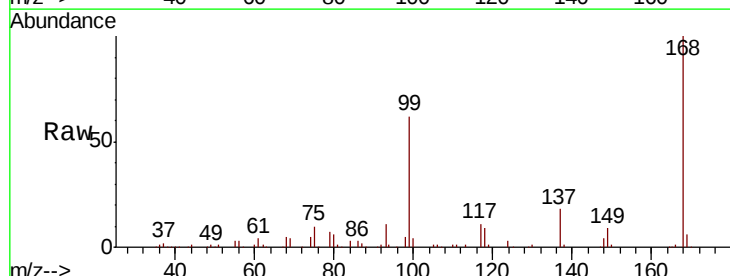


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)

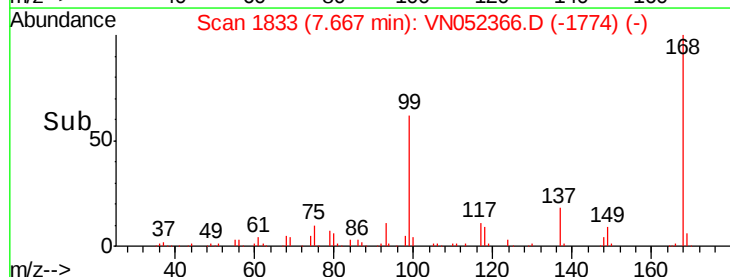
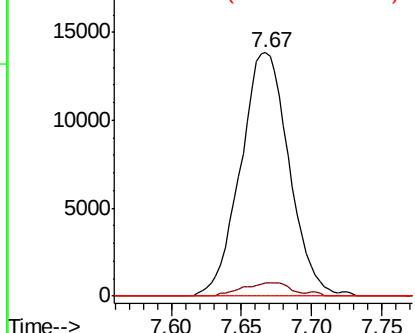


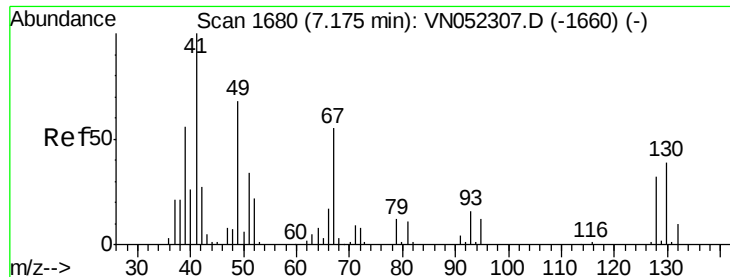
#38
 Carbon Tetrachloride
 Concen: 7.160 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052366.D
 Acq: 16 Nov 2018 15:53

Tgt Ion	117	Resp	33216
Ion Ratio	Lower	Upper	
117	100		
119	5.5	77.4	116.0#
121	0.0	24.0	36.0#



Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

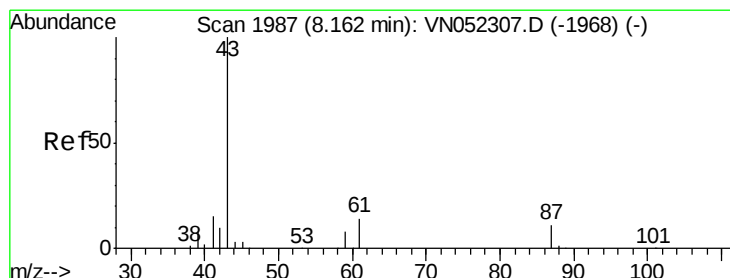
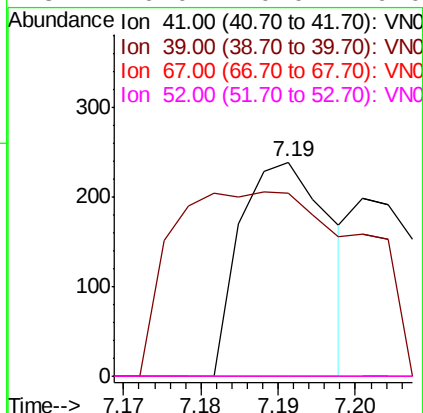
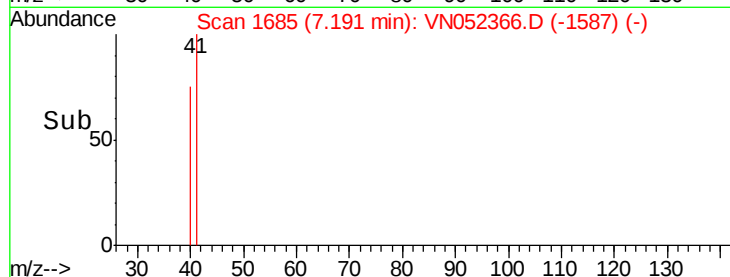
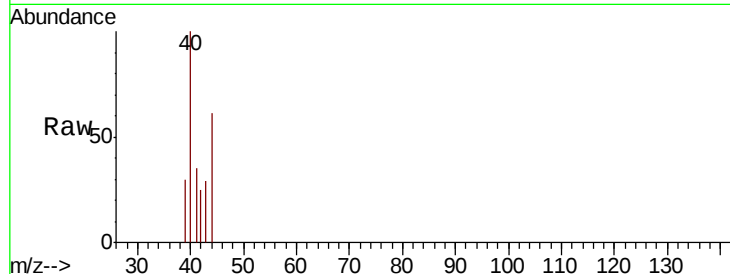




#41
Methacrylonitrile
Concen: 3.784 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.02 min
Lab File: VN052366.D
Acq: 16 Nov 2018 15:53

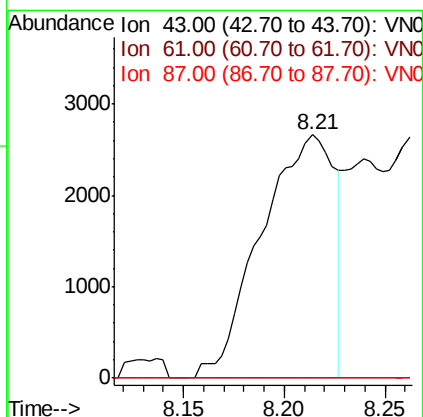
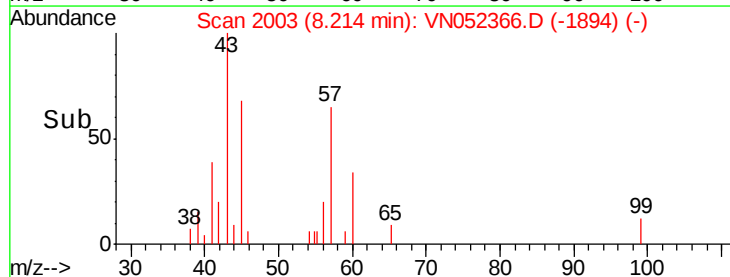
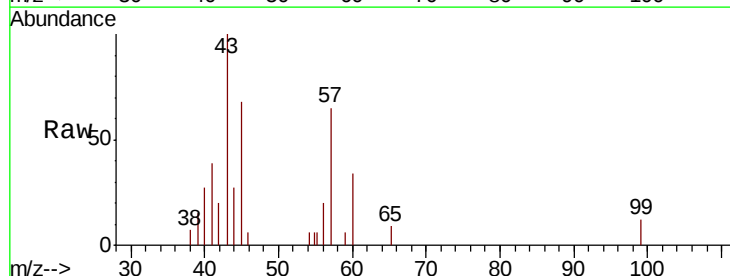
Instrument :
MSVOA_N
ClientSampled :
RAV-GT103

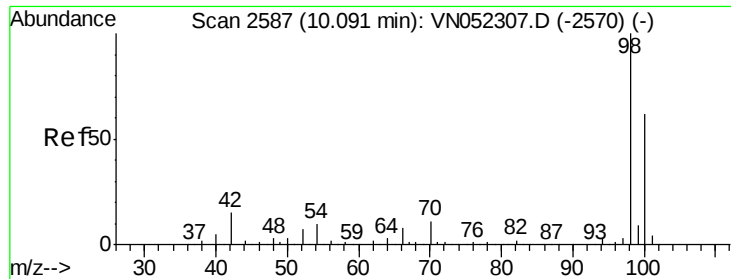
Tot Ion:	41	Resp:	194
Ion	Ratio	Lower	Upper
41	100		
39	179.9	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 0.951 ug/l
RT: 8.21 min Scan# 2003
Delta R.T. 0.05 min
Lab File: VN052366.D
Acq: 16 Nov 2018 15:53

Tgt Ion:	43	Resp:	6726
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.0	18.0#
87	0.0	8.3	12.5#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

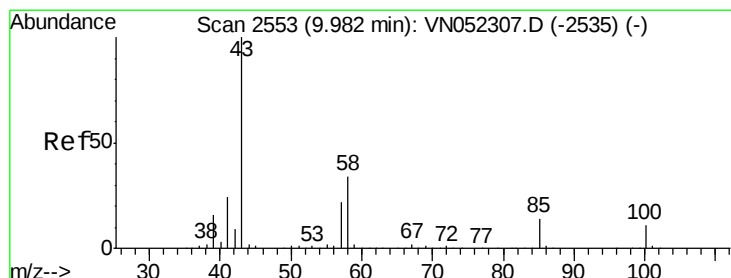
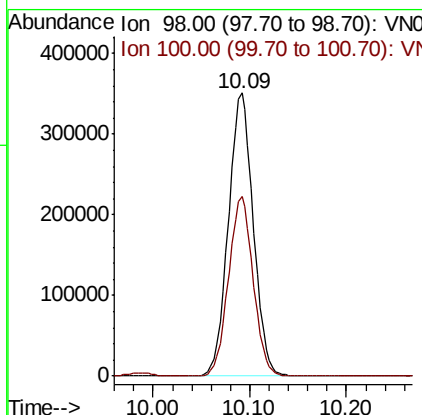
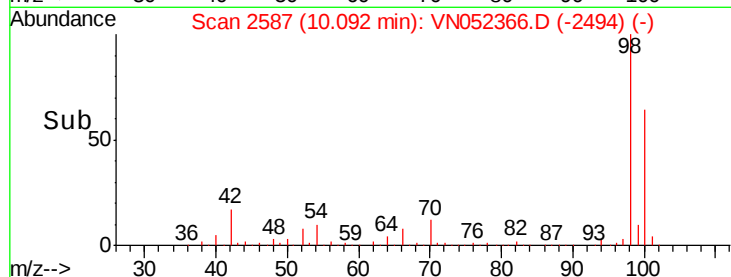
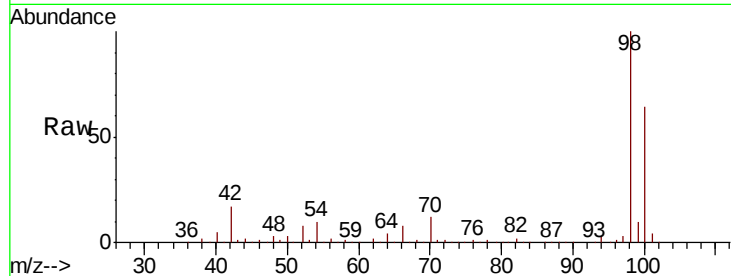
RAV-GT103

Tot Ion: 98 Resp: 627801

Ion Ratio Lower Upper

98 100

100 62.6 49.5 74.3



#51

4-Methyl-2-Pentanone

Concen: 19.375 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052366.D

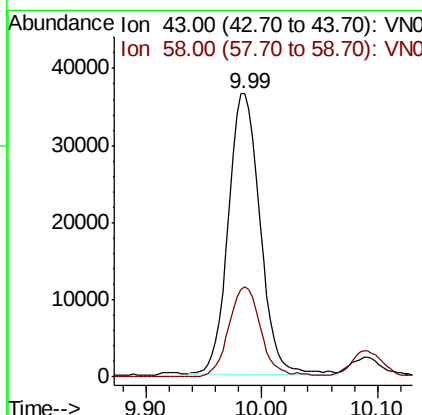
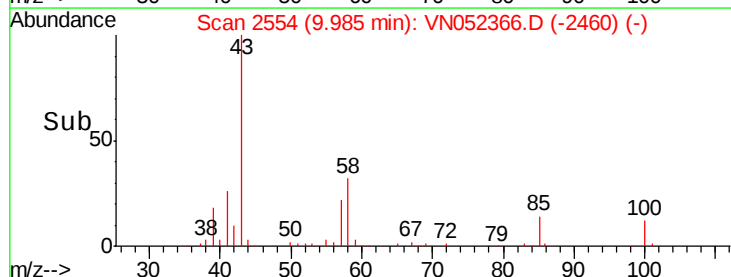
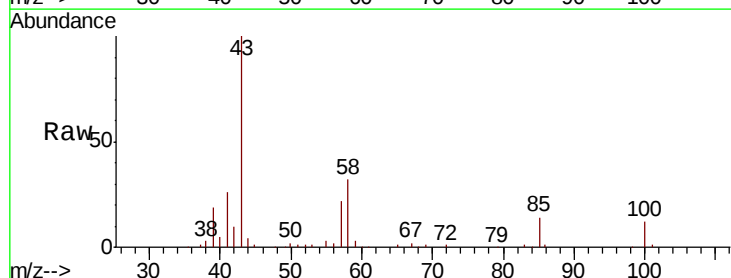
Acq: 16 Nov 2018 15:53

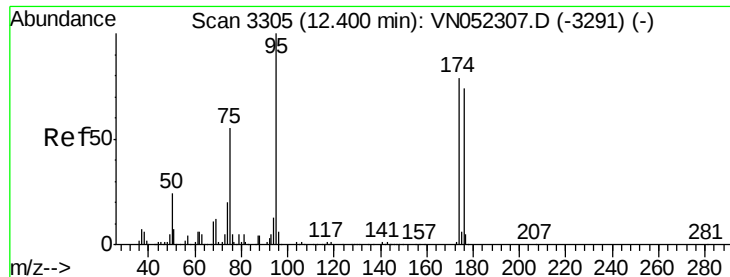
Tgt Ion: 43 Resp: 68962

Ion Ratio Lower Upper

43 100

58 32.1 27.0 40.6

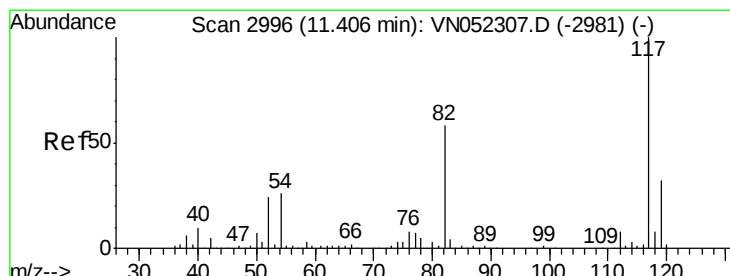
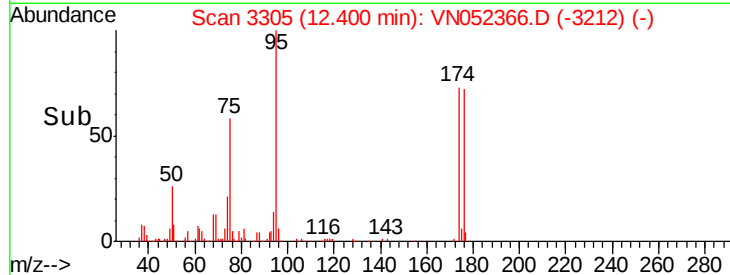
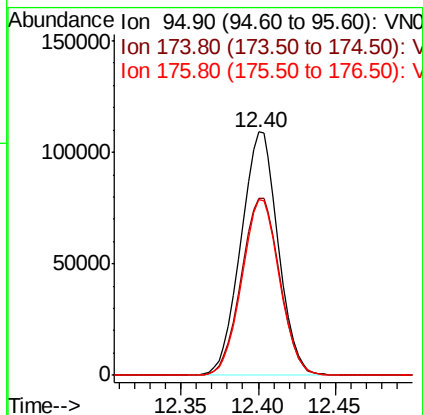
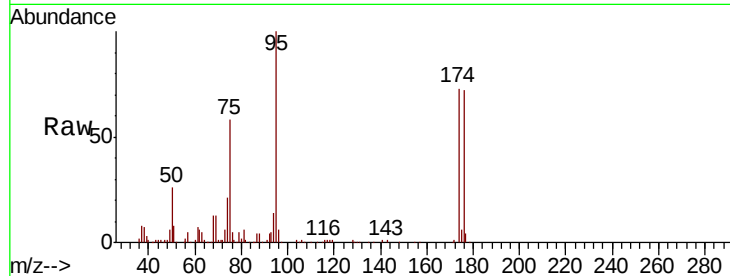




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052366.D
Acq: 16 Nov 2018 15:53

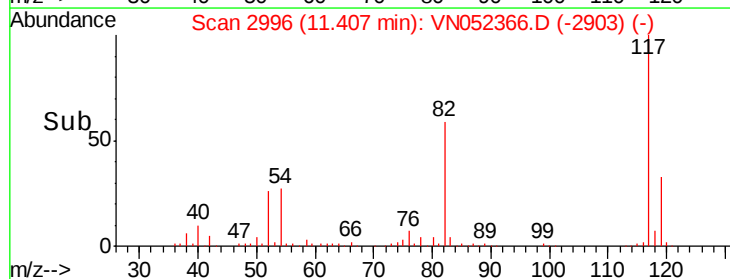
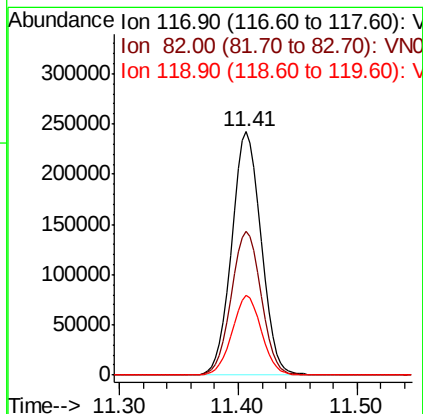
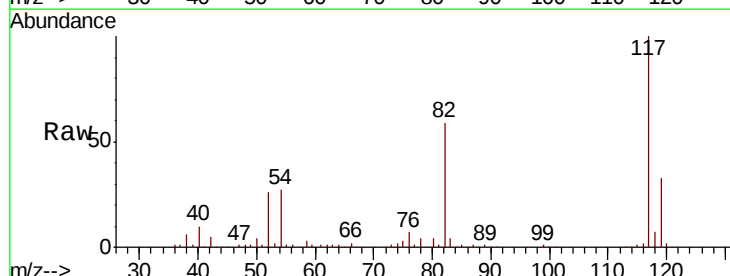
Instrument :
MSVOA_N
ClientSampled :
RAV-GT103

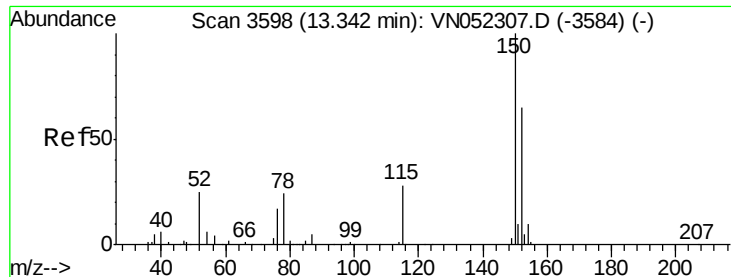
Tot Ion	95	Resp	183226
Ion Ratio	100	Lower	Upper
174	75.1	0.0	156.0
176	72.6	0.0	148.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052366.D
Acq: 16 Nov 2018 15:53

Tgt Ion	117	Resp	416073
Ion Ratio	100	Lower	Upper
82	59.0	46.5	69.7
119	32.5	25.7	38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

RAV-GT103

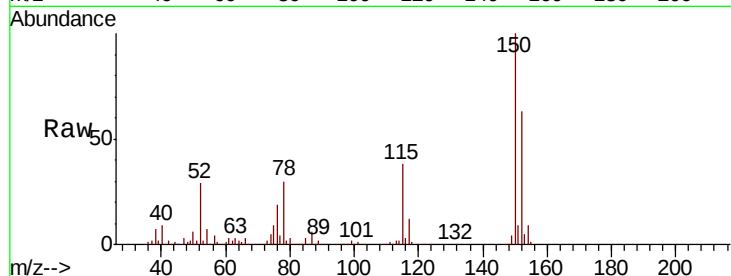
Tot Ion:152 Resp: 146776

Ion Ratio Lower Upper

152 100

115 61.6 30.3 91.0

150 159.6 0.0 348.2

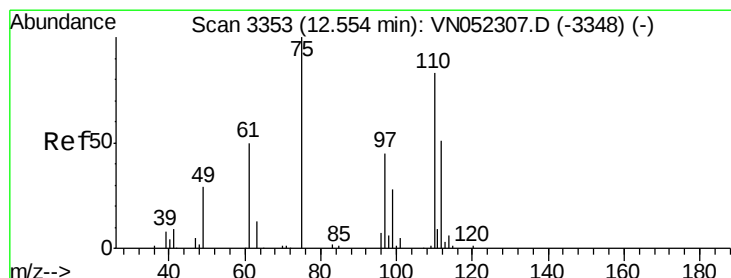
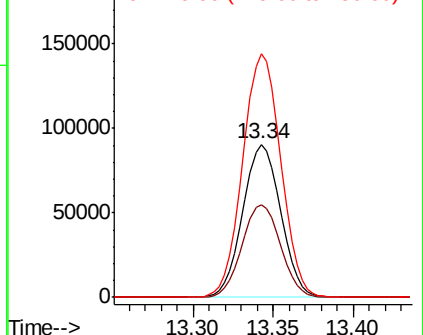
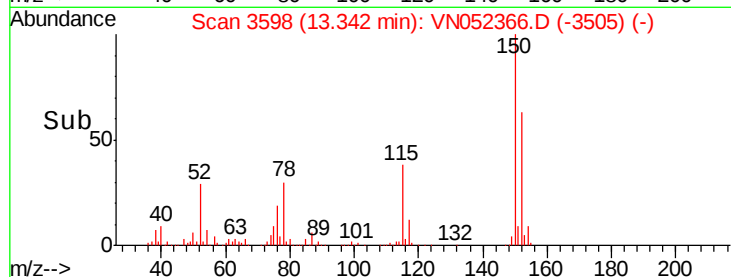


Abundance

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



#76

1,2,3-Trichloropropane

Concen: 41.611 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052366.D

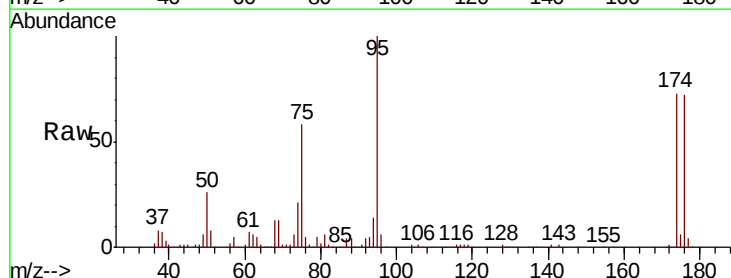
Acq: 16 Nov 2018 15:53

Tgt Ion: 75 Resp: 103633

Ion Ratio Lower Upper

75 100

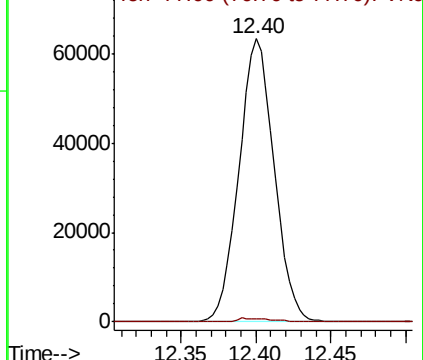
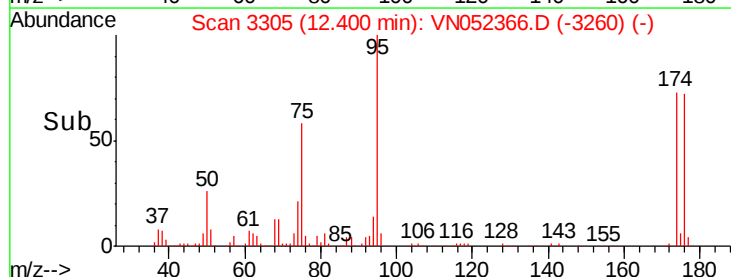
77 0.7 0.0 0.0#

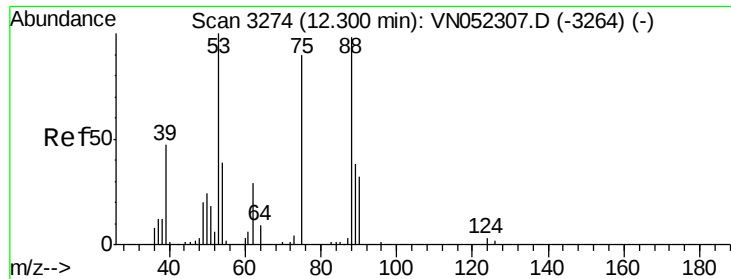


Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 134.961 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

RAV-GT103

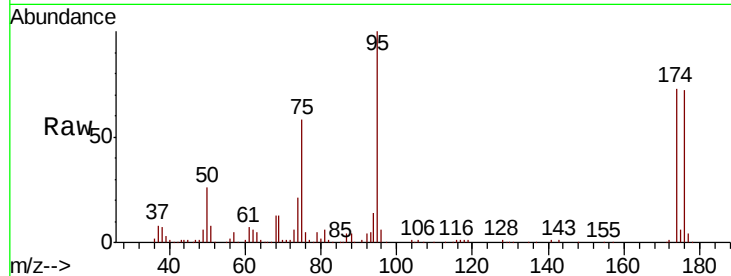
Tot Ion: 75 Resp: 103633

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

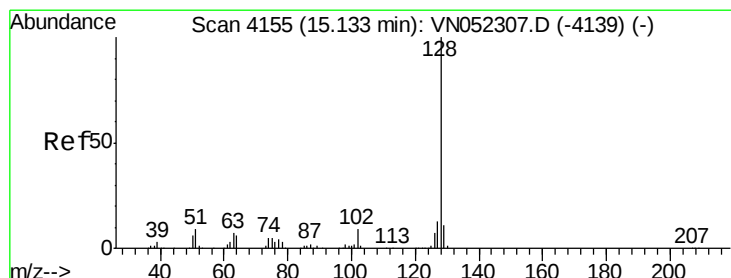
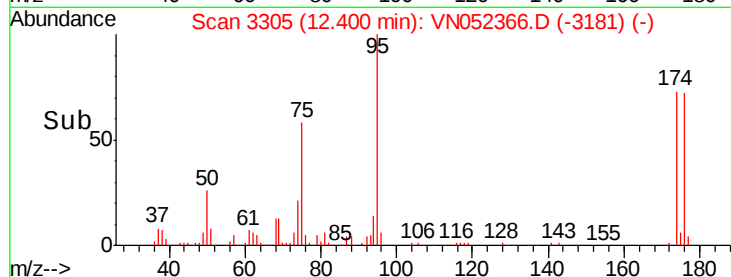
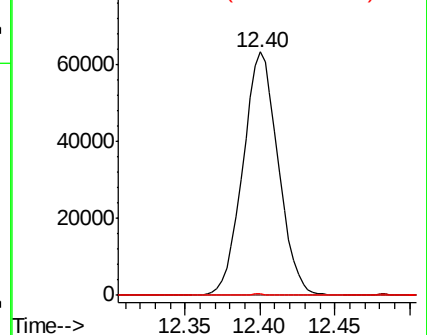
89 0.2 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)



#95

Naphthalene

Concen: 2.642 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052366.D

Acq: 16 Nov 2018 15:53

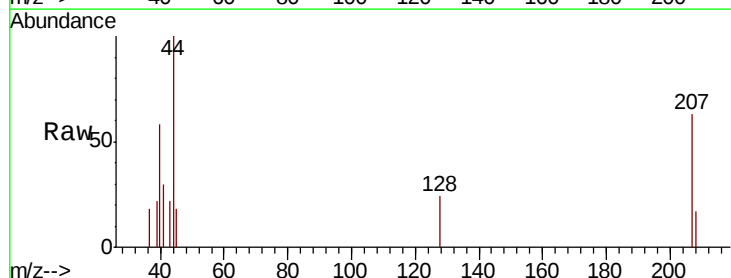
Tgt Ion:128 Resp: 208

Ion Ratio Lower Upper

128 100

127 15.4 10.4 15.6

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN052307.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052307.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052307.D (-4139) (-)

