

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056167.D
 Acq On : 10 Jun 2019 14:07
 Operator : JC/SP
 Sample : K3255-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:19:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	295899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	457822	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	446012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	143076	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	162379	55.27	ug/l	0.00
Spiked Amount			Recovery	=	110.54%	
35) Dibromofluoromethane	7.59	113	146824	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
50) Toluene-d8	10.09	98	589036	54.50	ug/l	0.00
Spiked Amount			Recovery	=	109.00%	
62) 4-Bromofluorobenzene	12.40	95	190784	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	

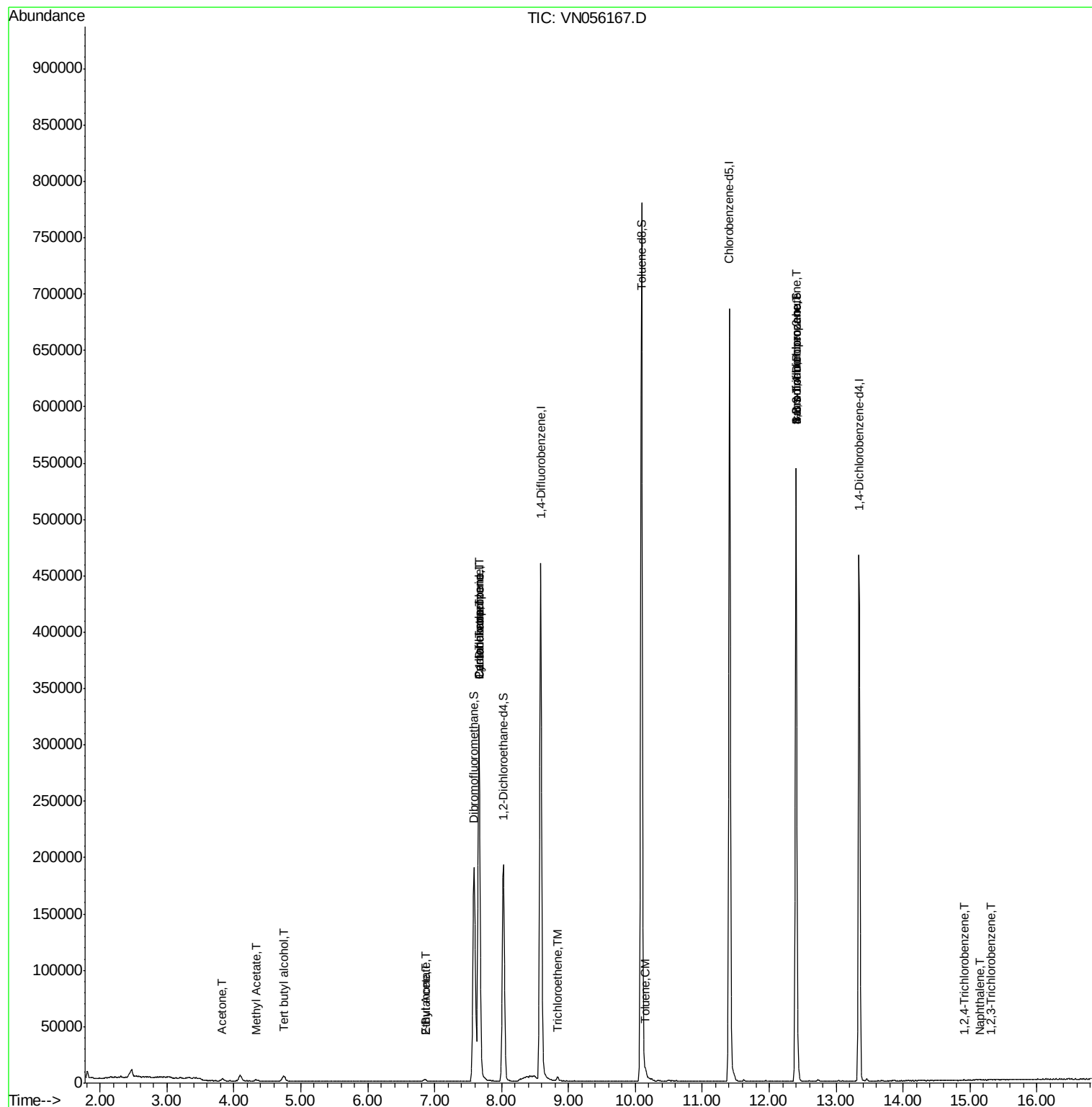
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4585	8.968	ug/l #	74
16) Acetone	3.83	43	3505	2.494	ug/l	99
18) Methyl Acetate	4.33	43	2771	0.431	ug/l #	74
25) 2-Butanone	6.86	43	1031	0.581	ug/l #	47
31) Cyclohexane	7.66	56	4058	0.870	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17606	4.472	ug/l #	47
37) Ethyl Acetate	6.86	43	1031	0.294	ug/l #	67
38) Carbon Tetrachloride	7.66	117	24283	6.691	ug/l #	14
44) Trichloroethene	8.83	130	1515	0.441	ug/l	90
52) Toluene	10.16	92	1780	0.239	ug/l	95
71) Bromoform	12.40	173	1474	3.284	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	86819	32.978	ug/l #	100
79) 2-Chlorotoluene	12.59	91	414	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	86819	109.822	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	326	4.383	ug/l #	37
95) Naphthalene	15.14	128	693	3.945	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	279	3.129	ug/l #	82

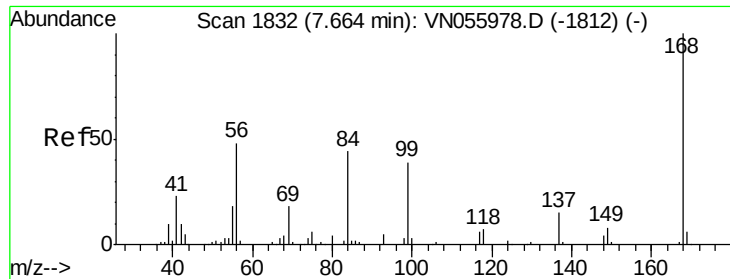
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

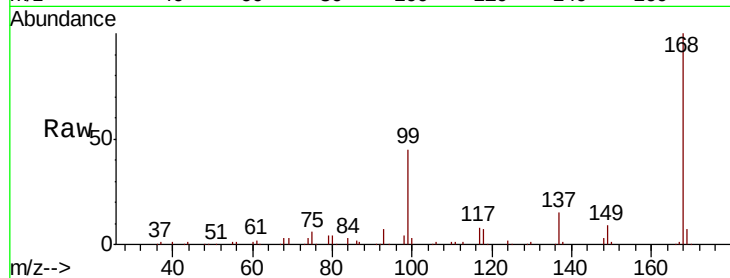
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 295899

Ion Ratio Lower Upper

168 100

99 45.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

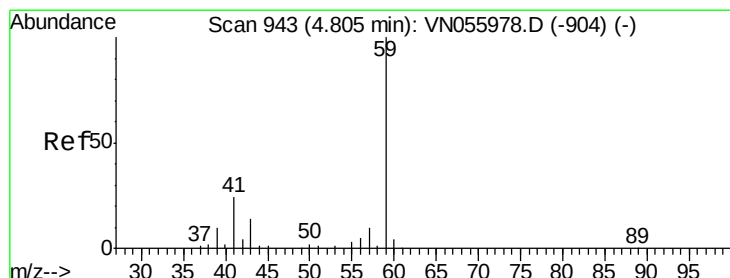
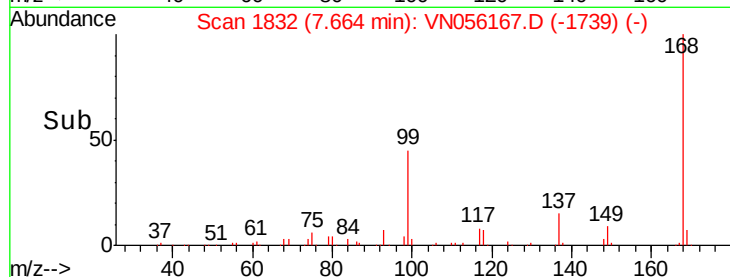
7.66

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 8.968 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056167.D

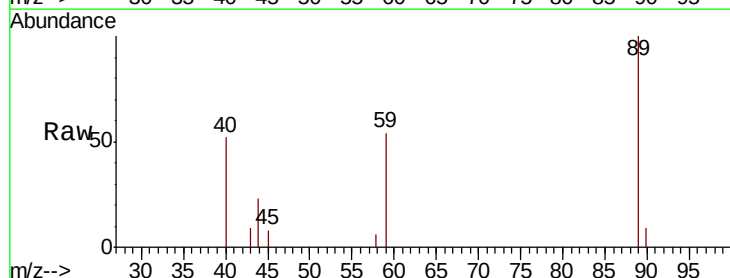
Acq: 10 Jun 2019 14:07

Tgt Ion: 59 Resp: 4585

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

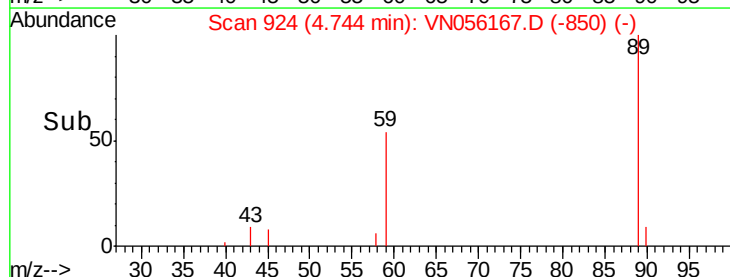
1500

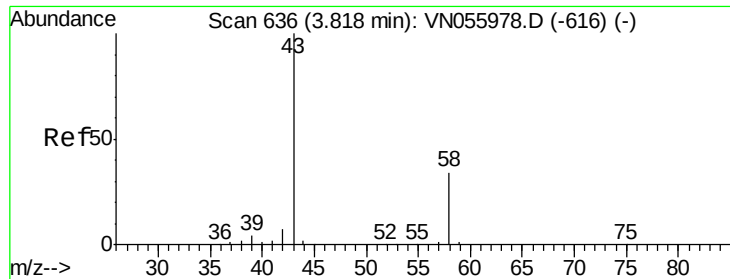
1000

500

0

Time-->





#16

Acetone

Concen: 2.494 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

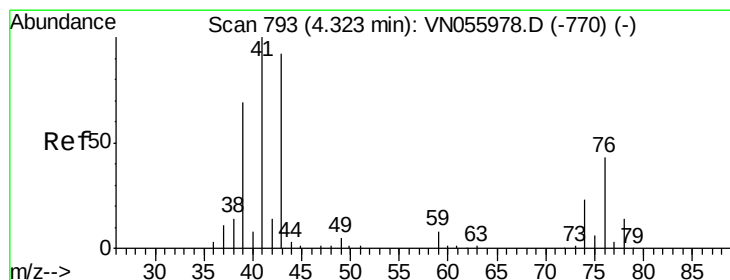
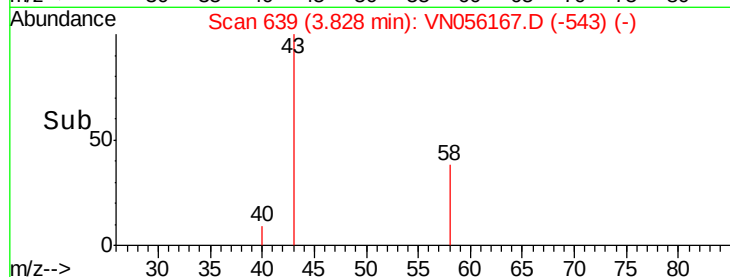
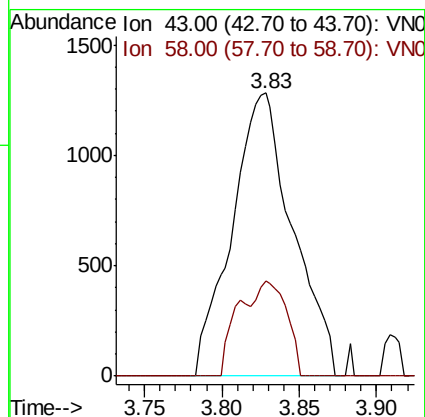
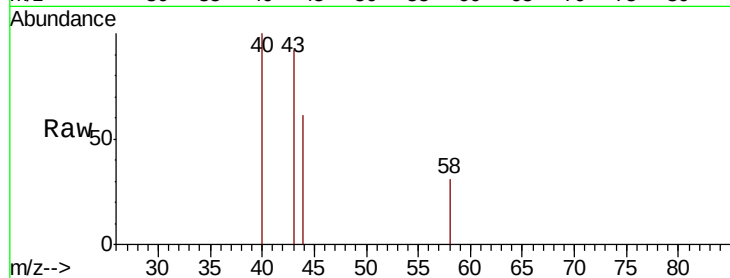
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3505

Ion Ratio Lower Upper

43 100

58 33.7 26.6 39.8



#18

Methyl Acetate

Concen: 0.431 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056167.D

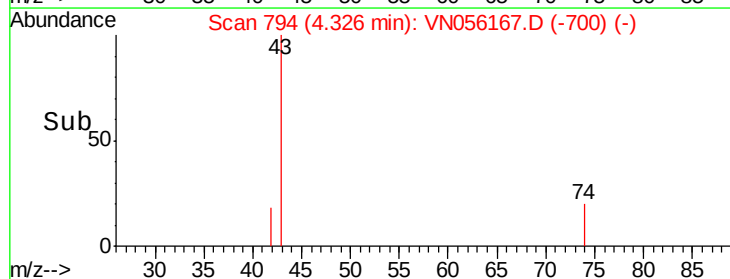
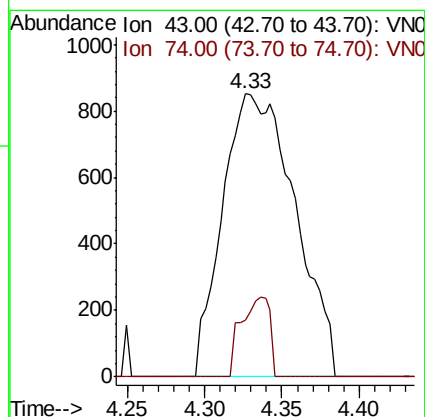
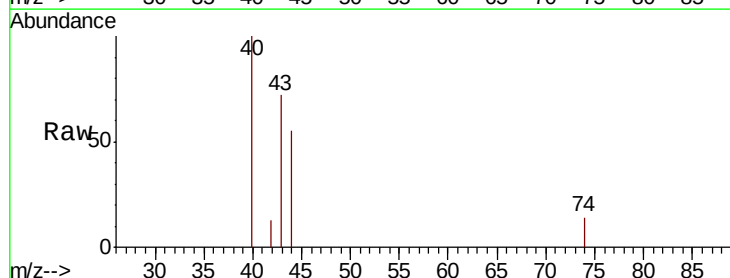
Acq: 10 Jun 2019 14:07

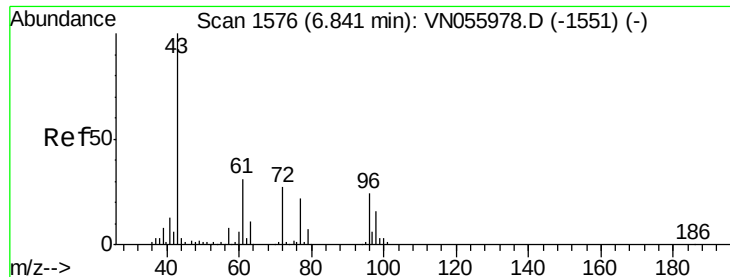
Tgt Ion: 43 Resp: 2771

Ion Ratio Lower Upper

43 100

74 11.1 19.3 28.9#





#25

2-Butanone

Concen: 0.581 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

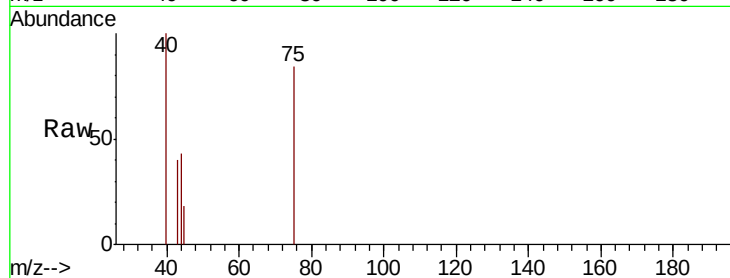
ClientSampleId :

Tot Ion: 43 Resp: 1031

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

500

400

300

200

100

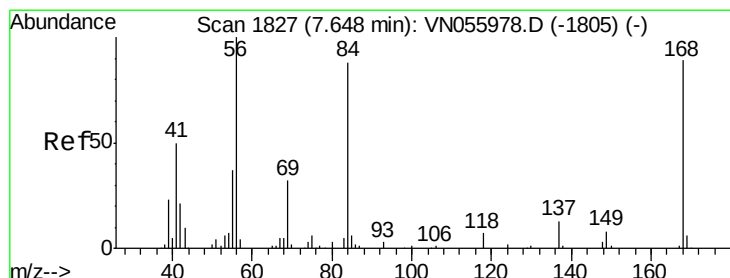
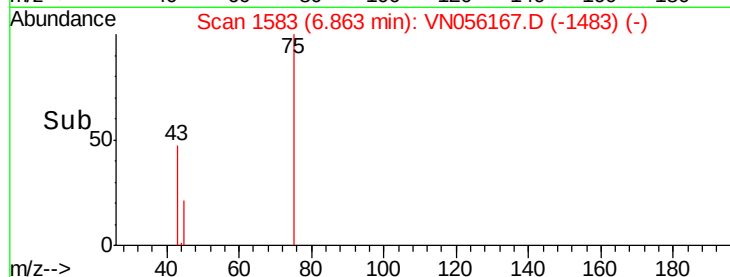
0

6.80

6.85

6.90

Time-->



#31

Cyclohexane

Concen: 0.870 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

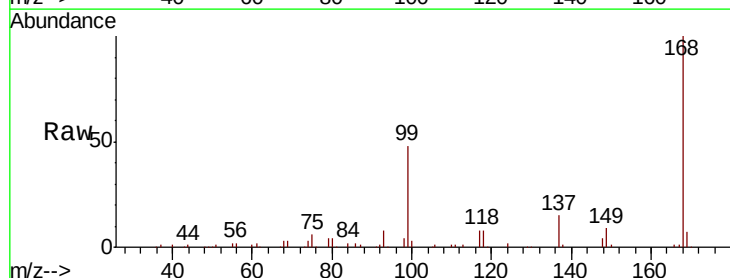
Tgt Ion: 56 Resp: 4058

Ion Ratio Lower Upper

56 100

69 191.1 25.6 38.4#

84 162.1 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

4000

3000

2000

1000

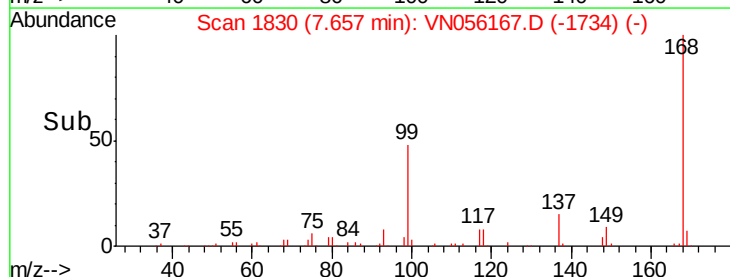
0

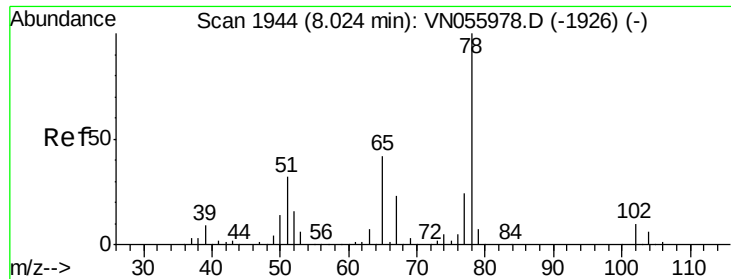
7.60

7.65

7.70

Time-->

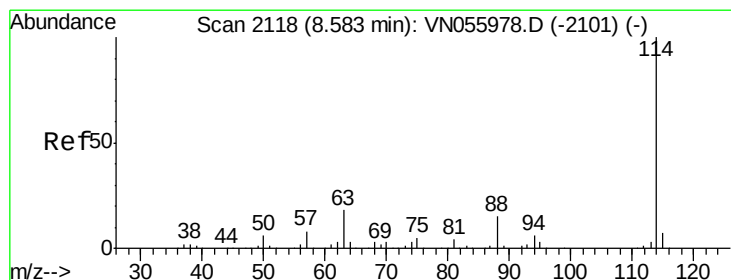
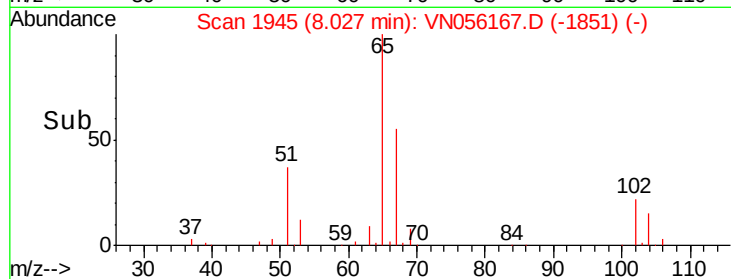
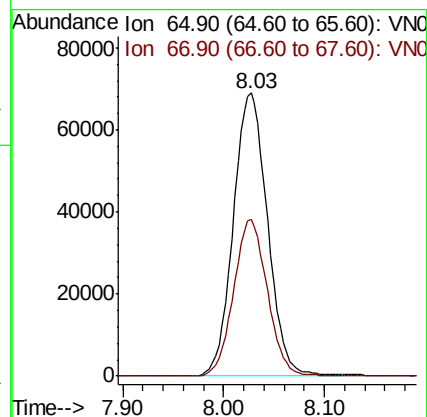
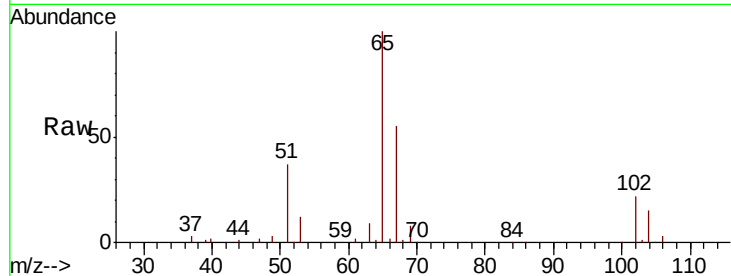




#33
 1,2-Dichloroethane-d4
 Concen: 55.268 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056167.D
 Acq: 10 Jun 2019 14:07

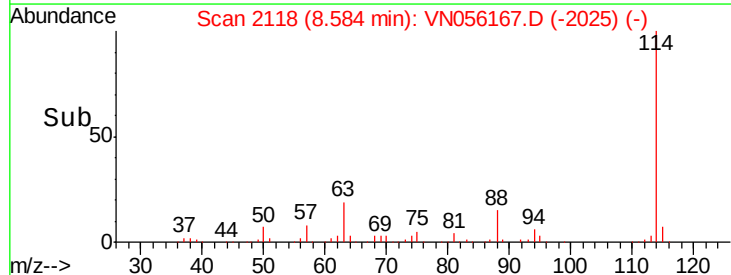
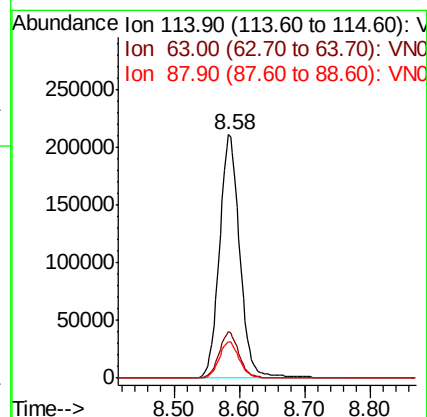
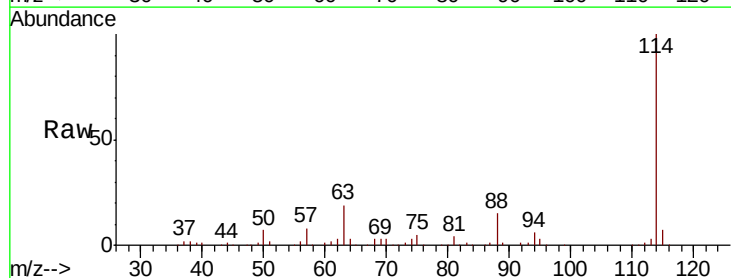
Instrument :
 MSVOA_N
 ClientSampled :

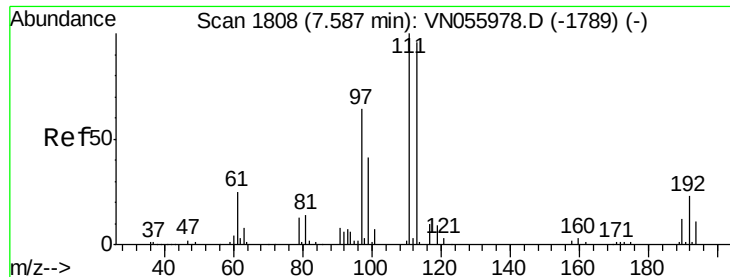
Tot Ion: 65 Resp: 162379
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056167.D
 Acq: 10 Jun 2019 14:07

Tgt Ion: 114 Resp: 457822
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 52.271 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

ClientSampleId :

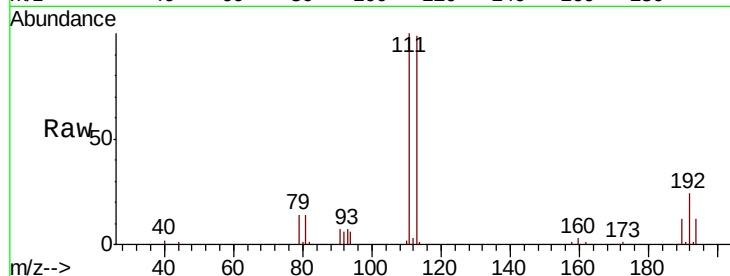
Tot Ion:113 Resp: 146824

Ion Ratio Lower Upper

113 100

111 103.1 81.9 122.9

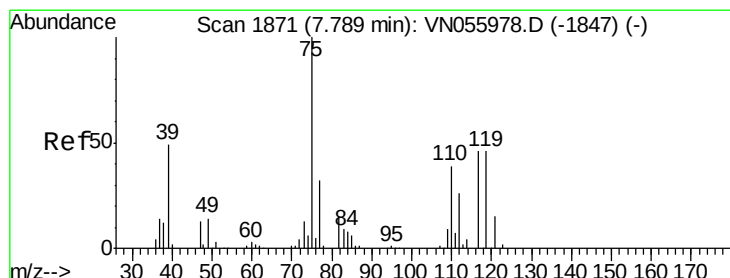
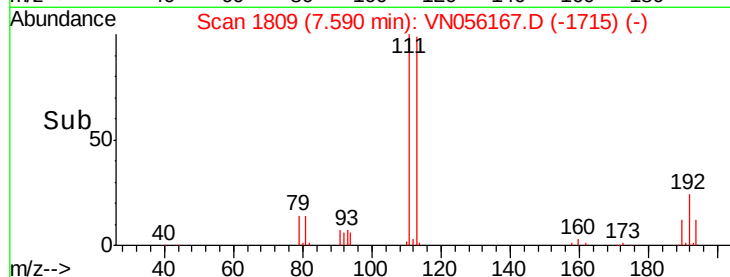
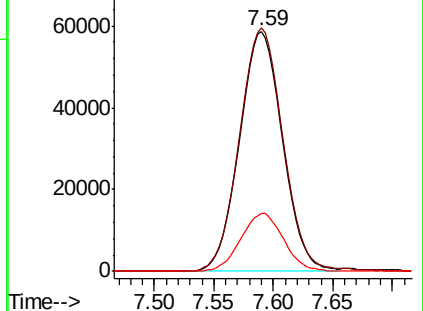
192 24.1 19.5 29.3



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: 4.472 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

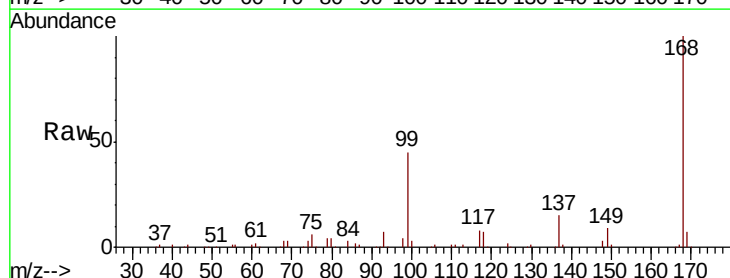
Tgt Ion: 75 Resp: 17606

Ion Ratio Lower Upper

75 100

110 8.1 19.0 57.0#

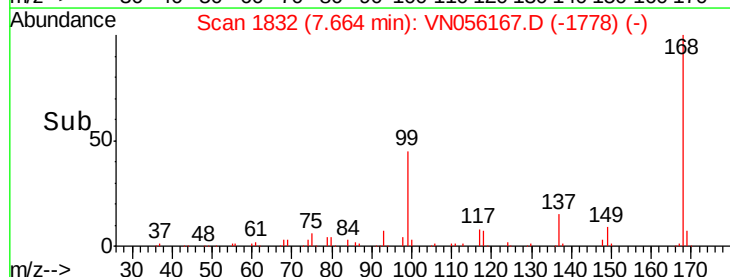
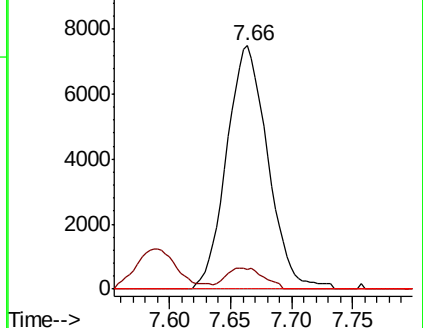
77 0.0 25.1 37.7#

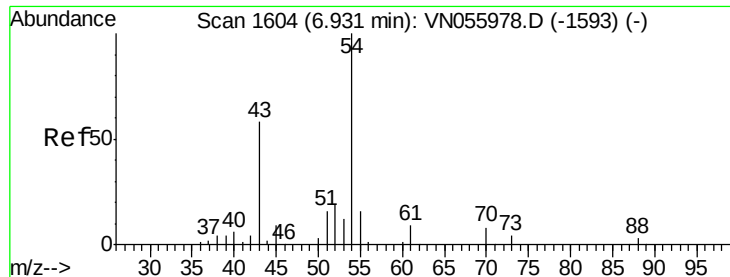


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

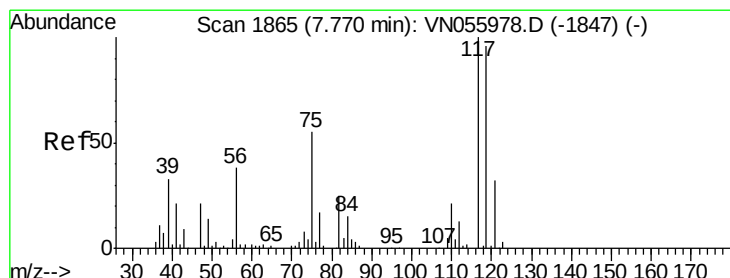
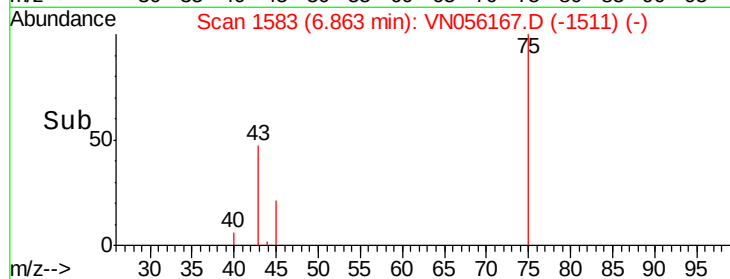
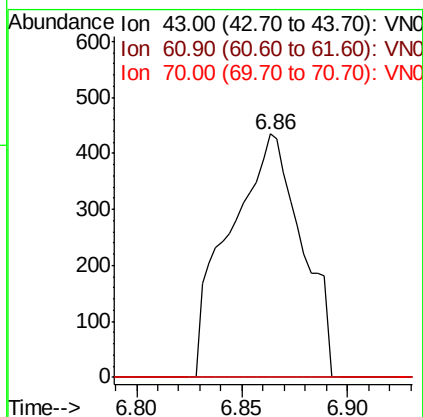
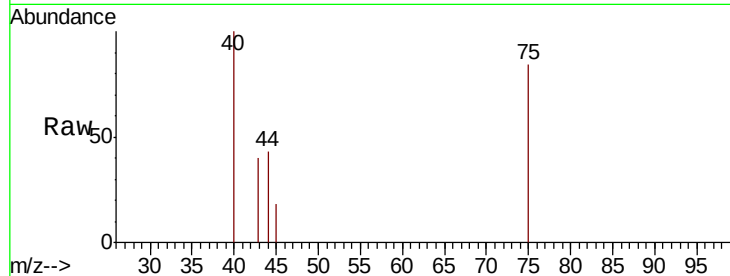




#37
Ethyl Acetate
Concen: 0.294 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. -0.07 min
Lab File: VN056167.D
Acq: 10 Jun 2019 14:07

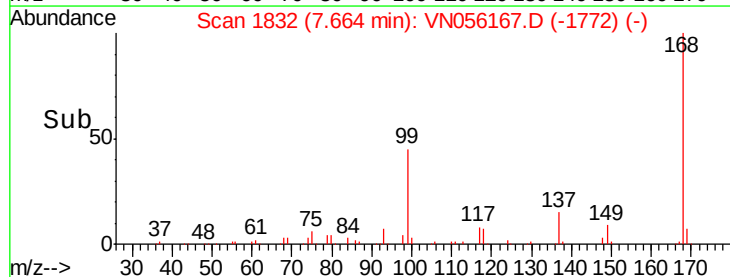
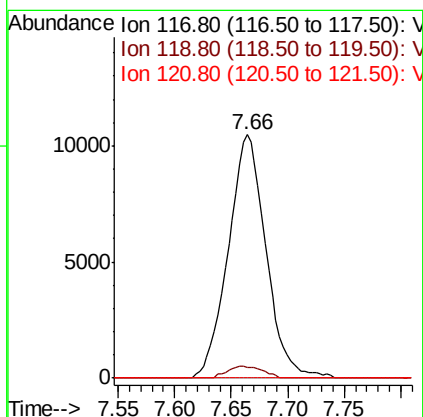
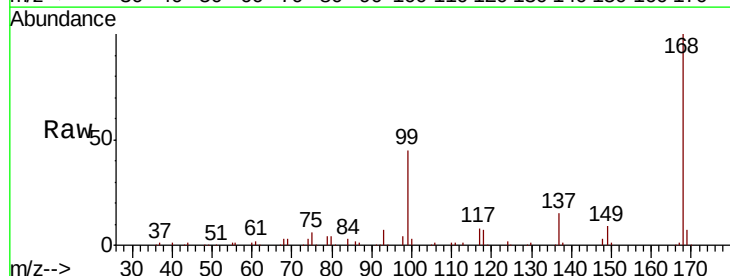
Instrument :
MSVOA_N
ClientSampleId :

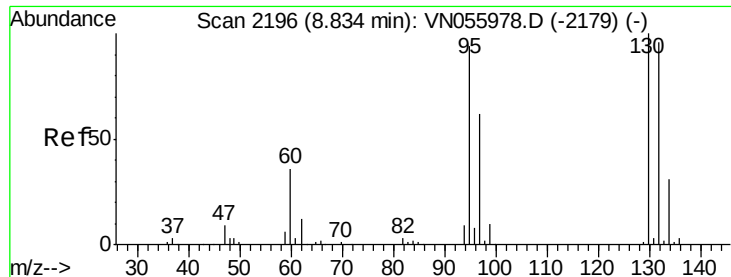
Tot Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.2#
70 0.0 8.9 13.3#



#38
Carbon Tetrachloride
Concen: 6.691 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056167.D
Acq: 10 Jun 2019 14:07

Tgt Ion: 117 Resp: 24283
Ion Ratio Lower Upper
117 100
119 4.6 79.0 118.6#
121 0.0 24.7 37.1#





#44

Trichloroethene

Concen: 0.441 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

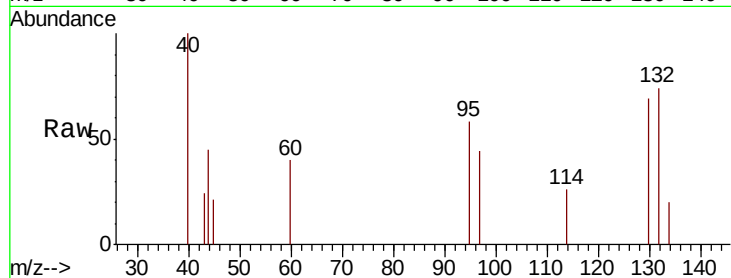
ClientSampleId :

Tot Ion:130 Resp: 1515

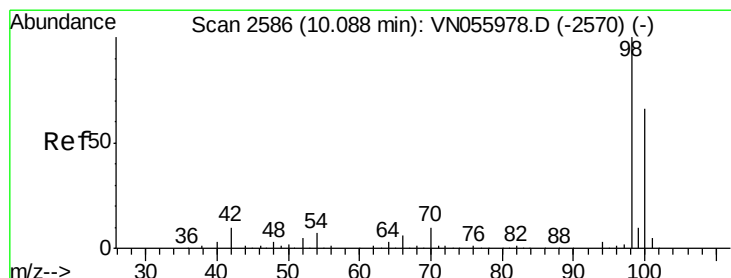
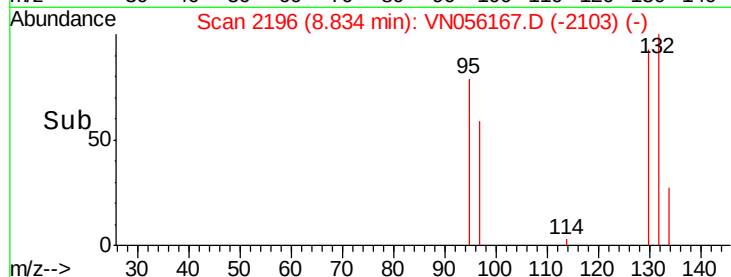
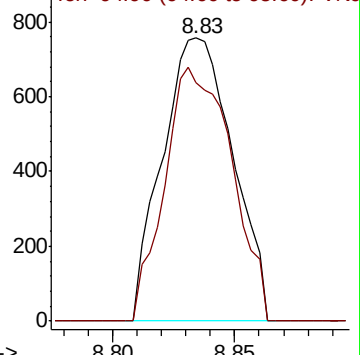
Ion Ratio Lower Upper

130 100

95 84.4 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 54.497 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056167.D

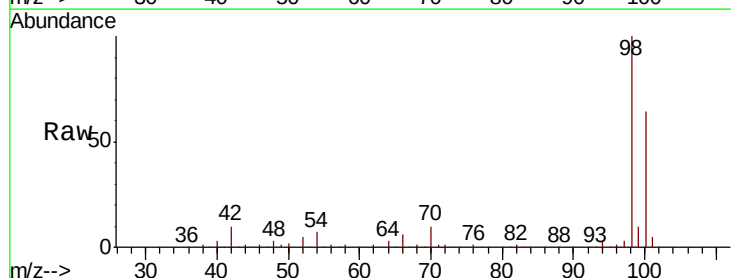
Acq: 10 Jun 2019 14:07

Tgt Ion: 98 Resp: 589036

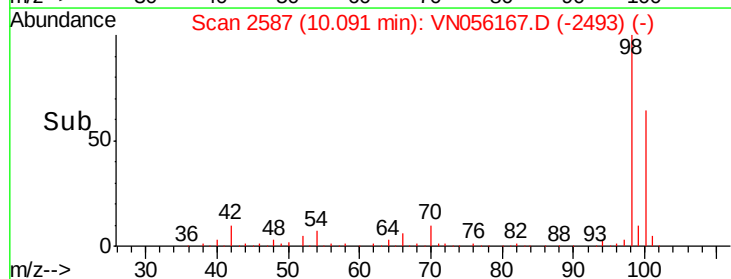
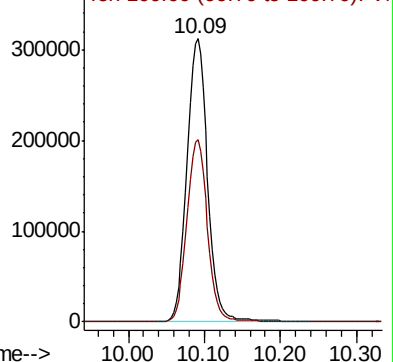
Ion Ratio Lower Upper

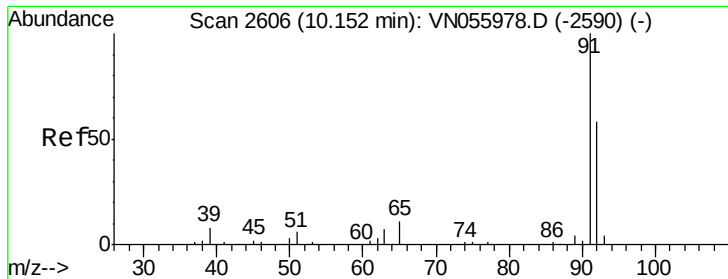
98 100

100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN





#52

Toluene

Concen: 0.239 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

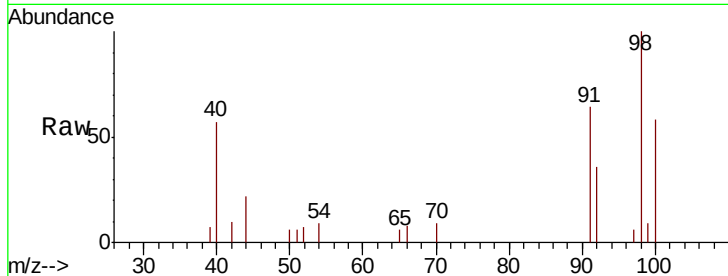
ClientSampleId :

Tot Ion: 92 Resp: 1780

Ion Ratio Lower Upper

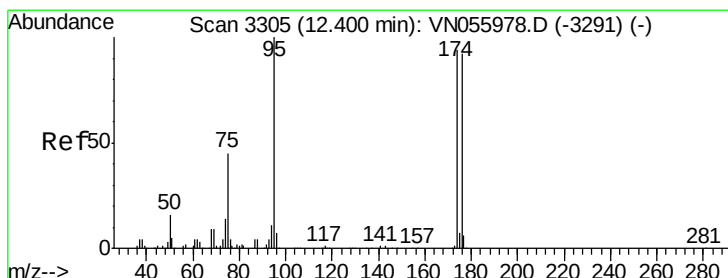
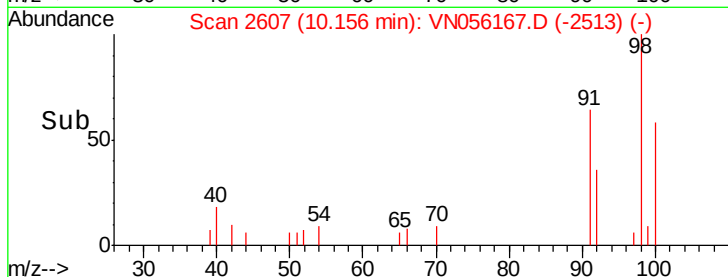
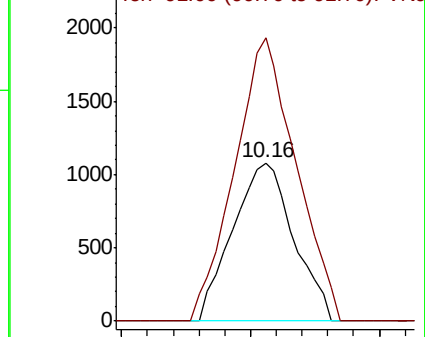
92 100

91 180.6 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 51.903 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

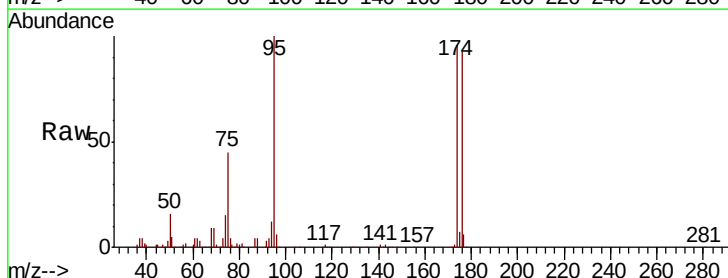
Tgt Ion: 95 Resp: 190784

Ion Ratio Lower Upper

95 100

174 97.4 0.0 191.0

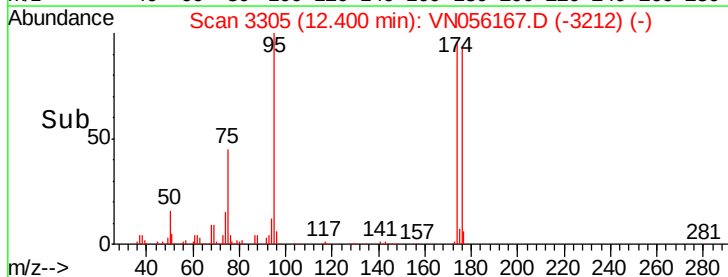
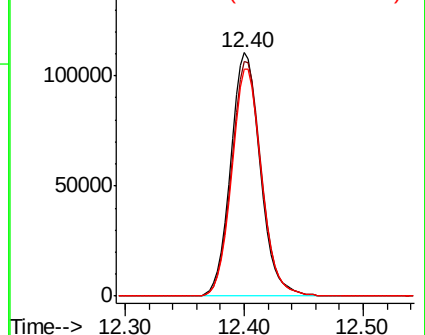
176 93.9 0.0 185.2

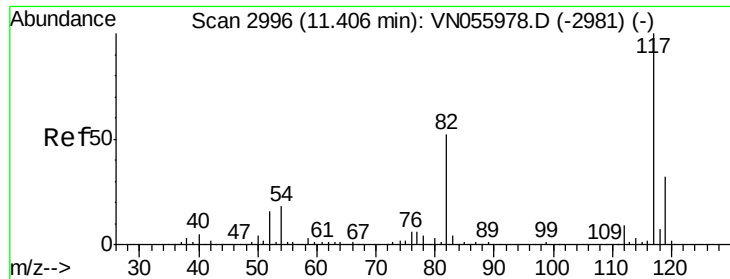


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

ClientSampleId :

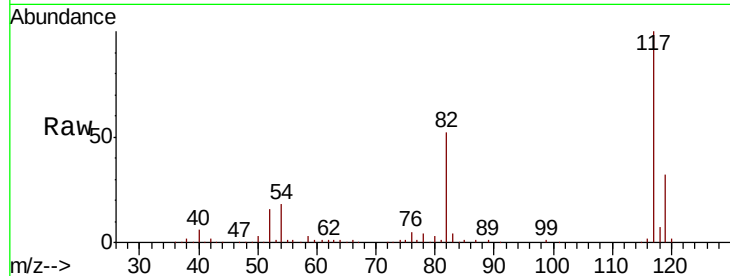
Tot Ion:117 Resp: 446012

Ion Ratio Lower Upper

117 100

82 52.1 41.8 62.8

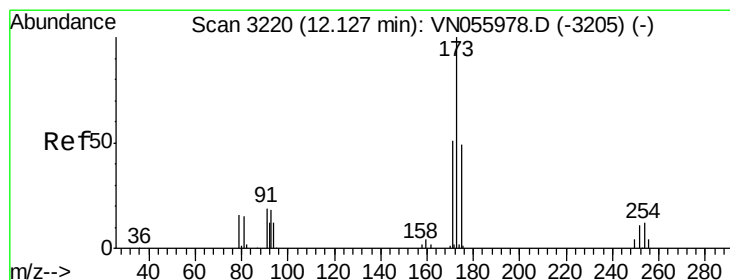
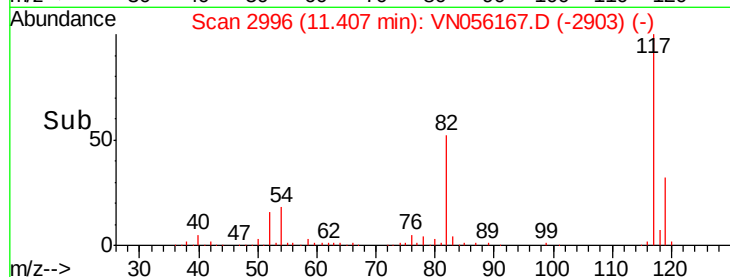
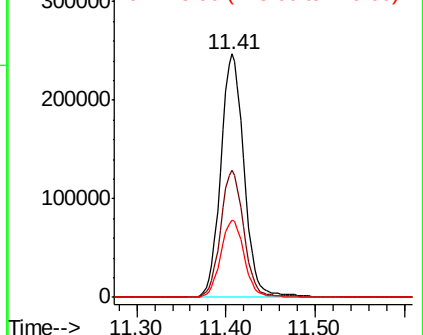
119 31.9 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.284 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

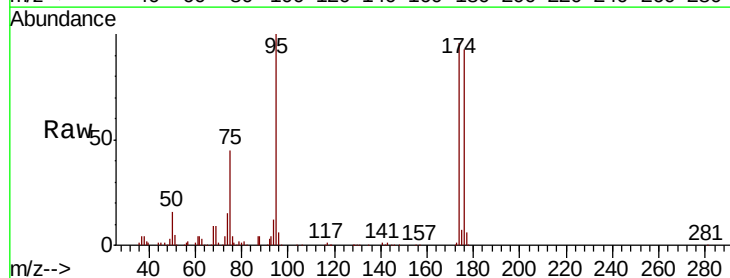
Tgt Ion:173 Resp: 1474

Ion Ratio Lower Upper

173 100

175 777.2 24.3 72.8#

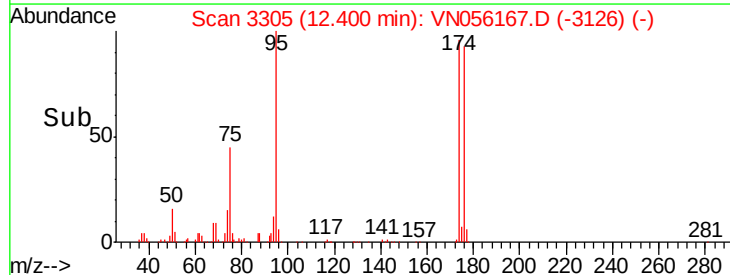
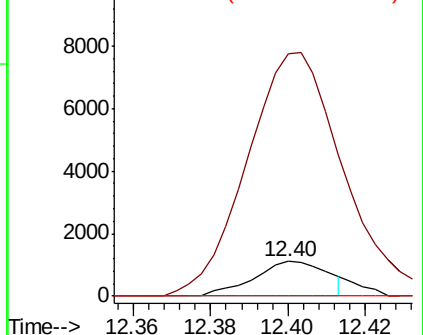
254 0.0 0.0 0.0

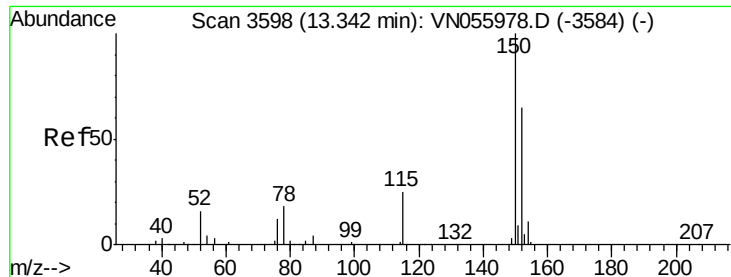


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

ClientSampleId :

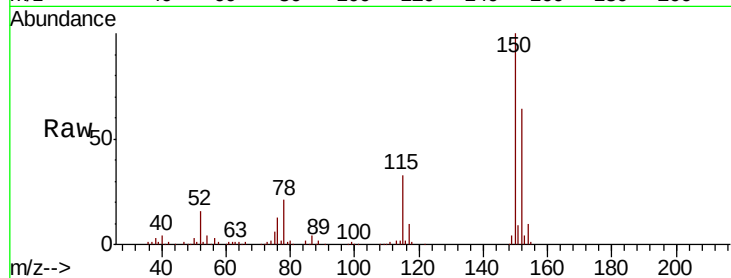
Tot Ion:152 Resp: 143076

Ion Ratio Lower Upper

152 100

115 52.3 27.0 81.0

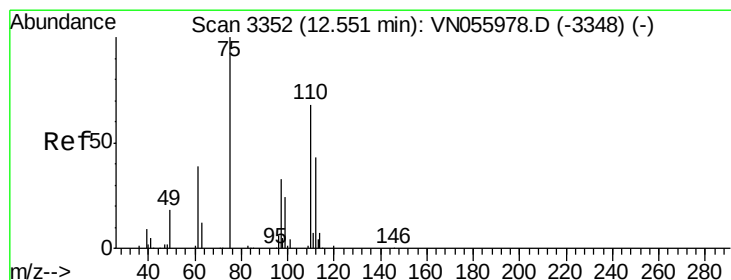
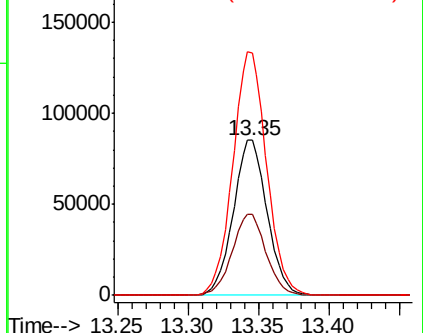
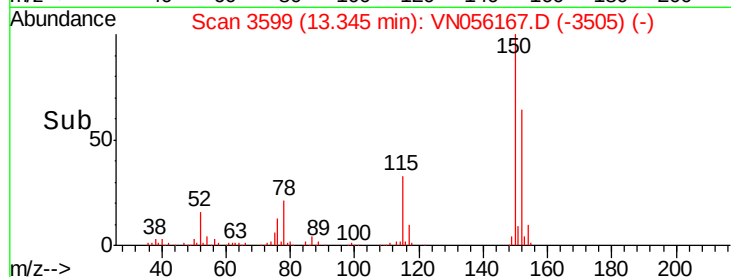
150 156.7 0.0 343.2



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: 32.978 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056167.D

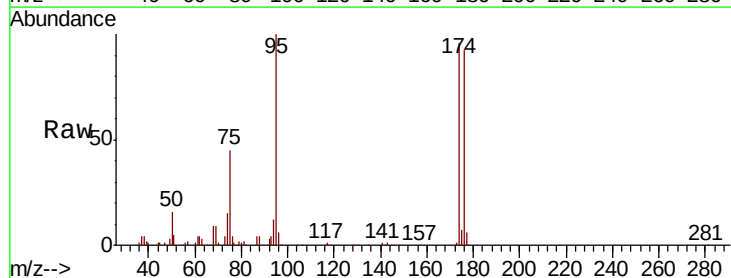
Acq: 10 Jun 2019 14:07

Tgt Ion: 75 Resp: 86819

Ion Ratio Lower Upper

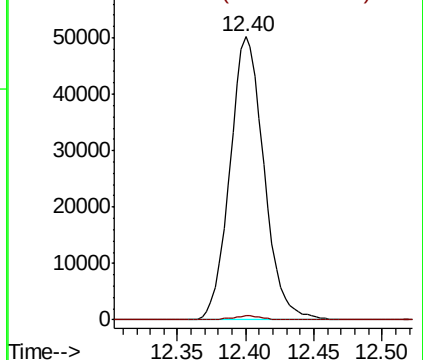
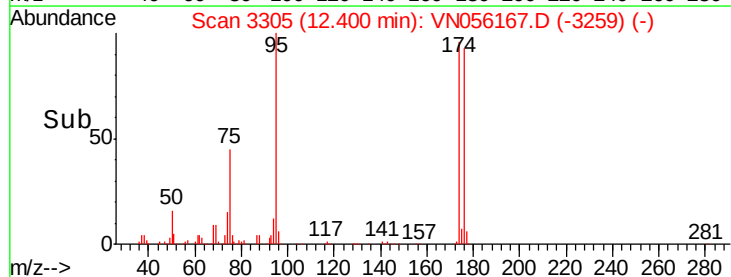
75 100

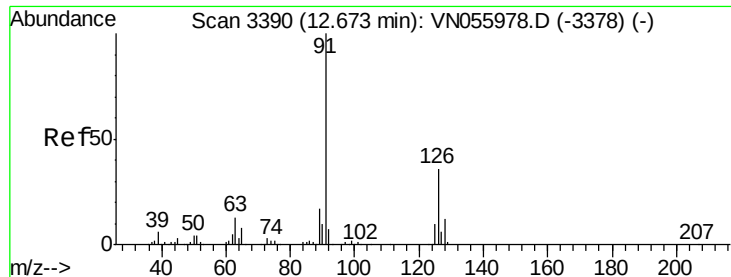
77 1.2 0.0 0.0#



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: VN056167.D

Acq: 10 Jun 2019 14:07

Instrument :

MSVOA_N

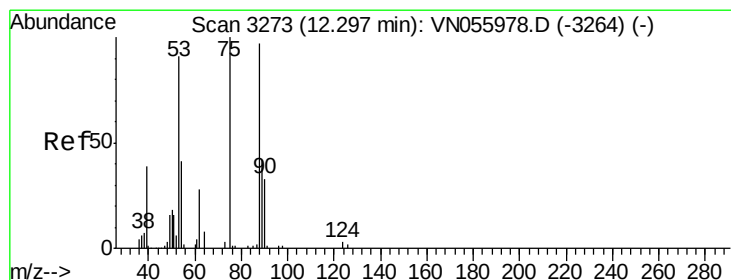
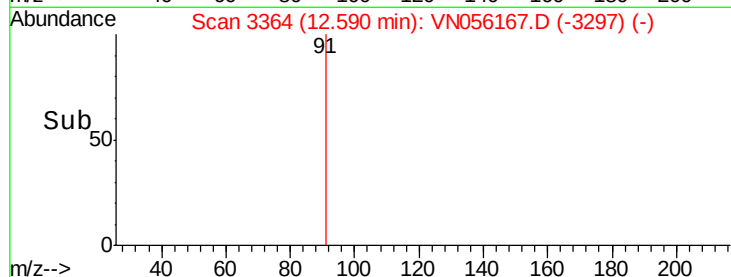
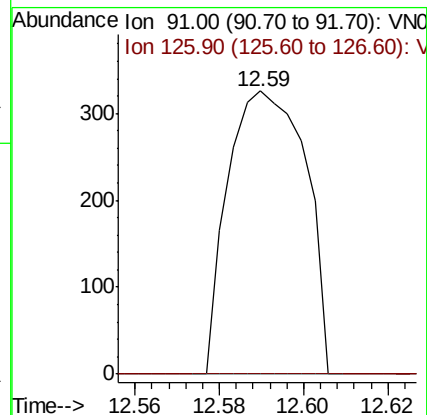
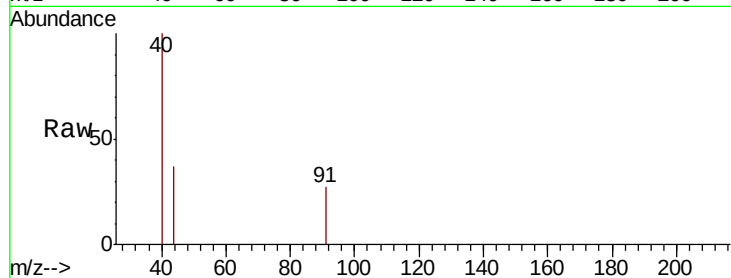
ClientSampleId :

Tot Ion: 91 Resp: 414

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 109.822 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056167.D

Acq: 10 Jun 2019 14:07

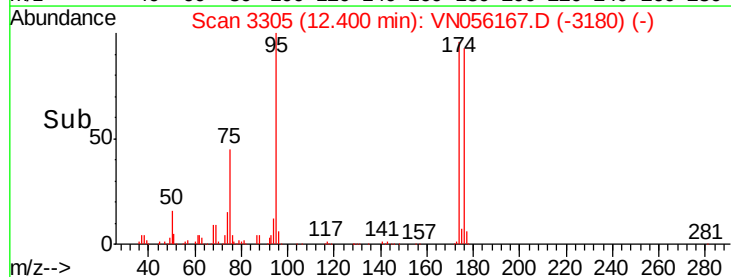
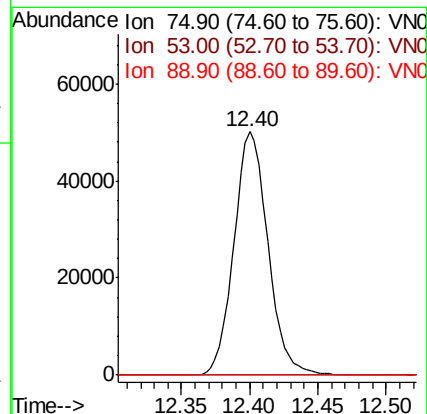
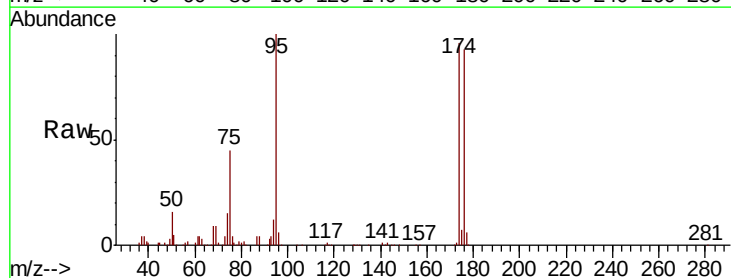
Tgt Ion: 75 Resp: 86819

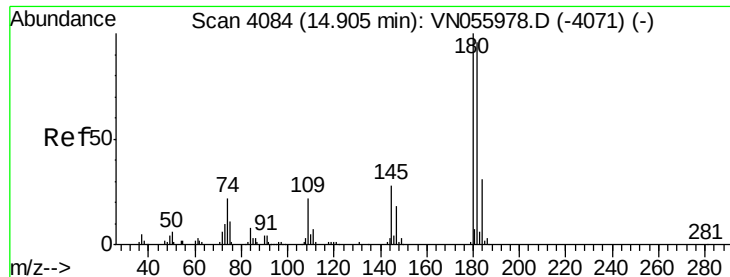
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

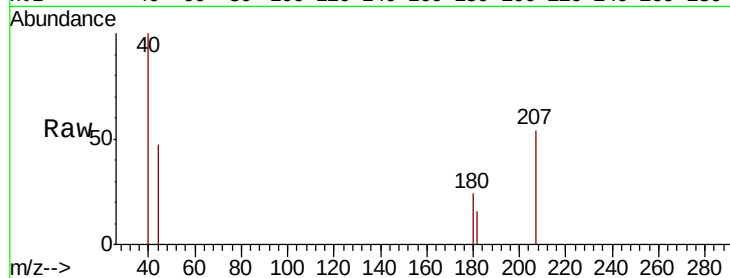




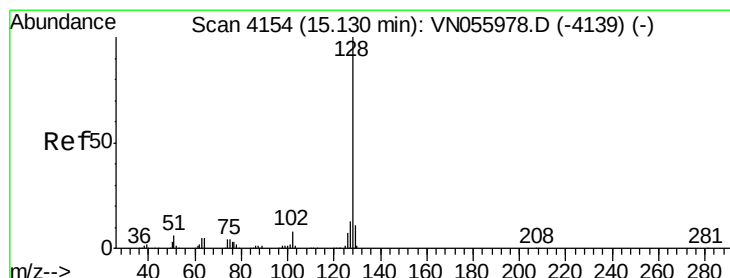
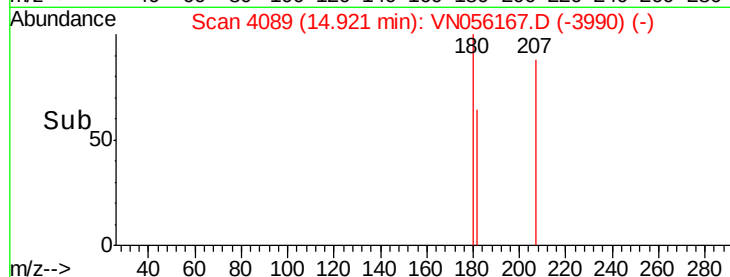
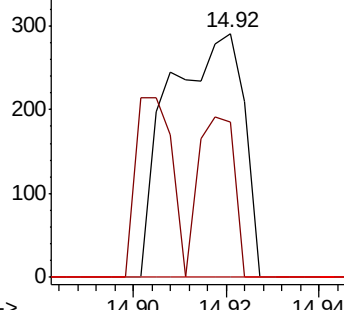
#93
 1,2,4-Trichlorobenzene
 Concen: 4.383 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.02 min
 Lab File: VN056167.D
 Acq: 10 Jun 2019 14:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 326
 Ion Ratio Lower Upper
 180 100
 182 31.9 48.3 144.9#
 145 0.0 14.0 41.9#

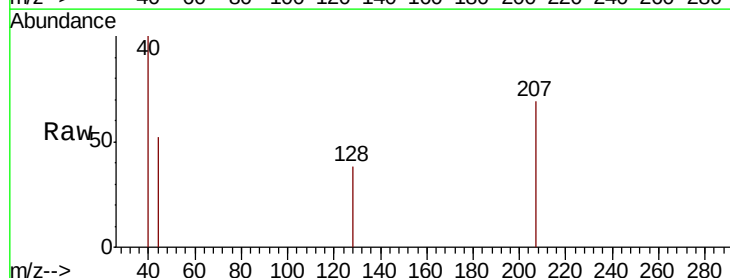


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

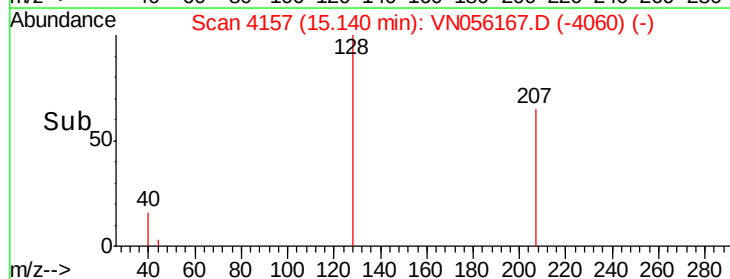
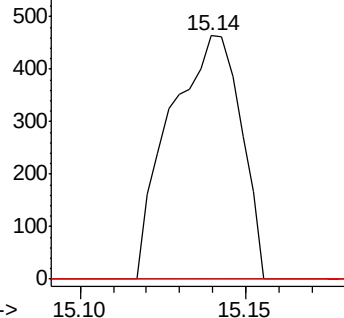


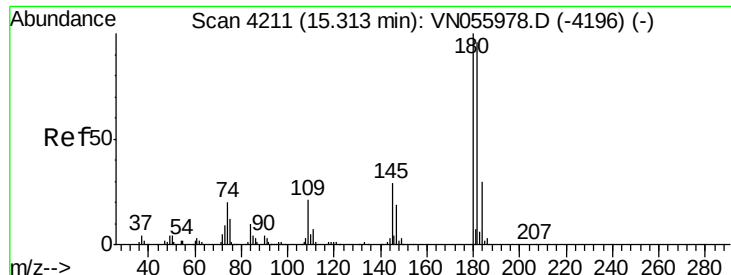
#95
 Naphthalene
 Concen: 3.945 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN056167.D
 Acq: 10 Jun 2019 14:07

Tgt Ion:128 Resp: 693
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.129 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN056167.D
 Acq: 10 Jun 2019 14:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.2	47.9	143.7
145	0.0	14.9	44.7

