

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062619\
 Data File : VN056501.D
 Acq On : 26 Jun 2019 13:14
 Operator : JC/SP
 Sample : K3539-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 27 07:38:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	351601	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	598101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	575548	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155399	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	204645	52.52	ug/l	0.00
Spiked Amount						
			Recovery	=	105.04%	
35) Dibromofluoromethane	7.59	113	176690	47.36	ug/l	0.00
Spiked Amount						
			Recovery	=	94.72%	
50) Toluene-d8	10.09	98	735955	50.69	ug/l	0.00
Spiked Amount						
			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.40	95	228721	47.26	ug/l	0.00
Spiked Amount						
			Recovery	=	94.52%	

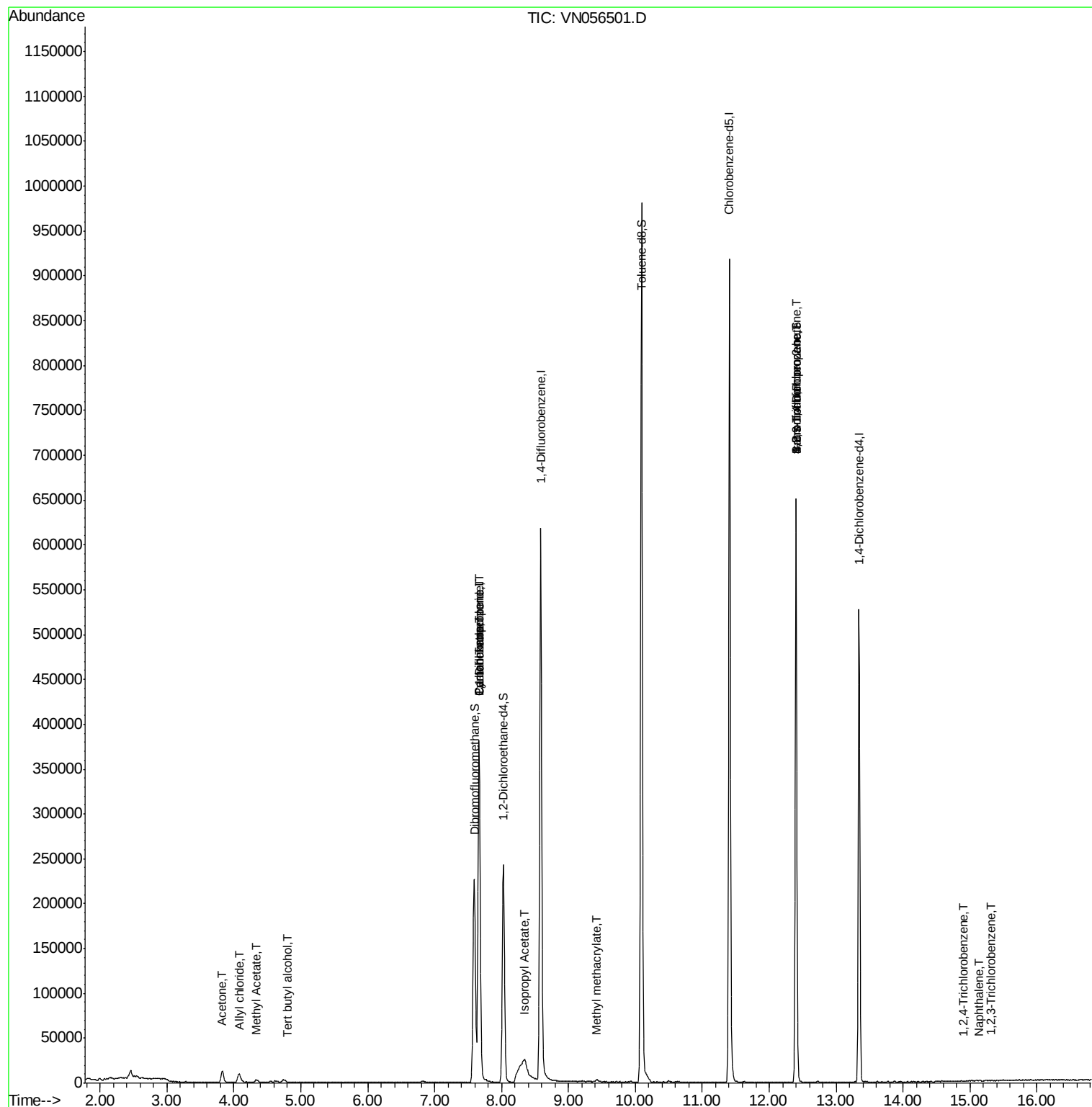
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.81	59	208	0.317	ug/l #	74
14) Allyl chloride	4.08	41	1394	0.270	ug/l #	73
16) Acetone	3.83	43	6247	3.200	ug/l #	81
18) Methyl Acetate	4.34	43	6084	0.736	ug/l #	64
20) Methylene Chloride	4.55	84	902	Below Cal	#	72
31) Cyclohexane	7.66	56	5440	0.904	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22683	4.309	ug/l #	49
38) Carbon Tetrachloride	7.67	117	30093	6.537	ug/l #	16
43) Isopropyl Acetate	8.34	43	74631	9.355	ug/l #	54
48) Methyl methacrylate	9.43	41	1231	0.308	ug/l #	28
71) Bromoform	12.40	173	1369	3.549	ug/l #	1
73) Isopropylbenzene	12.25	105	139	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.40	83	62	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	105333	32.690	ug/l #	100
79) 2-Chlorotoluene	12.59	91	448	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	12.40	75	105333	116.183	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	230	5.689	ug/l #	68
95) Naphthalene	15.13	128	786	5.344	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.32	180	264	4.567	ug/l #	55

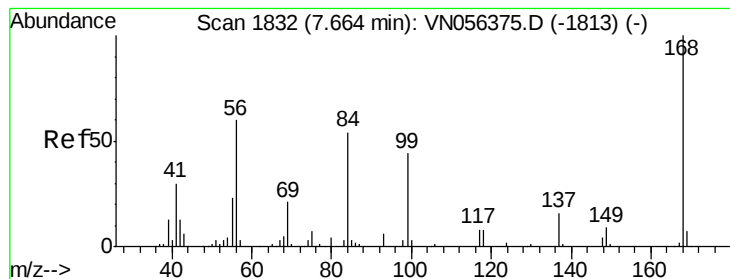
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062619\
Data File : VN056501.D
Acq On : 26 Jun 2019 13:14
Operator : JC/SP
Sample : K3539-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 27 07:38:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 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: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

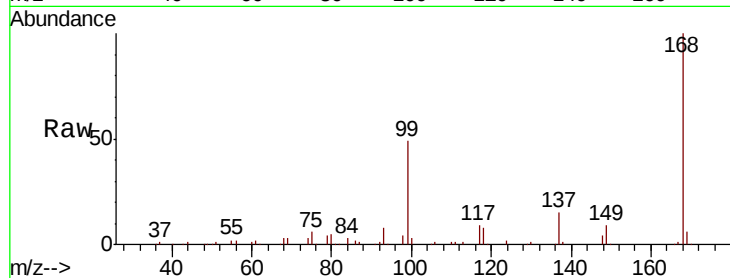
ClientSampleId :

Tot Ion:168 Resp: 351601

Ion Ratio Lower Upper

168 100

99 48.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

100000

50000

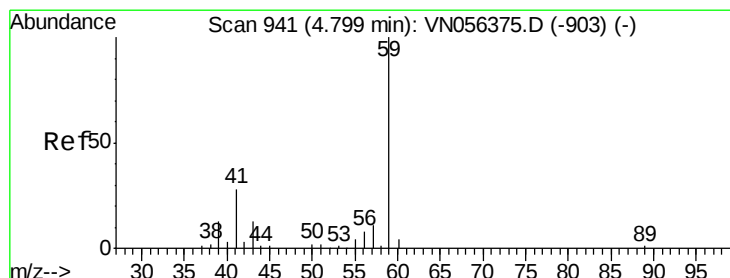
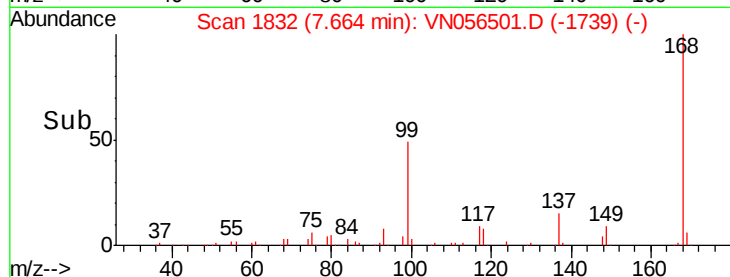
0

Time-->

7.60

7.70

7.80



#11

Tert butyl alcohol

Concen: 0.317 ug/l

RT: 4.81 min Scan# 945

Delta R.T. 0.01 min

Lab File: VN056501.D

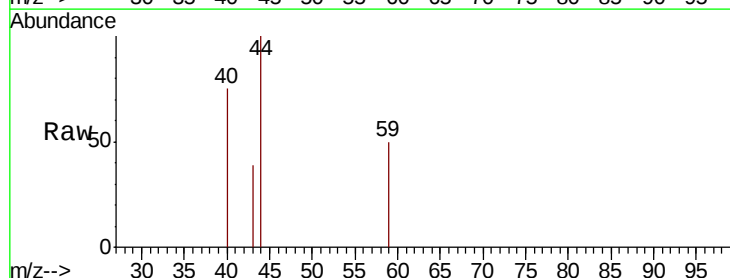
Acq: 26 Jun 2019 13:14

Tgt Ion: 59 Resp: 208

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.81

300

200

100

0

Time-->

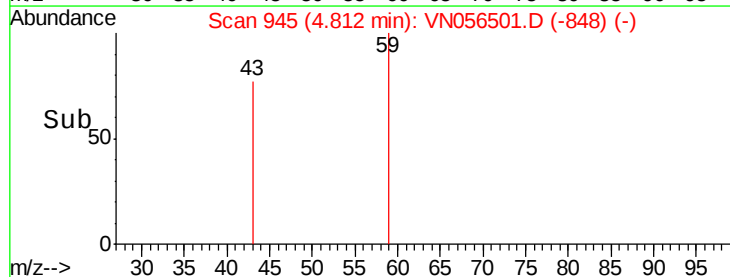
4.80

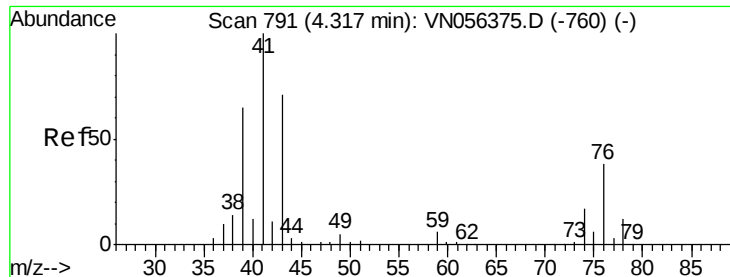
4.81

4.82

4.83

4.84





#14

Allvl chloride

Concen: 0.270 ug/l

RT: 4.08 min Scan# 718

Delta R.T. -0.23 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

ClientSampleId :

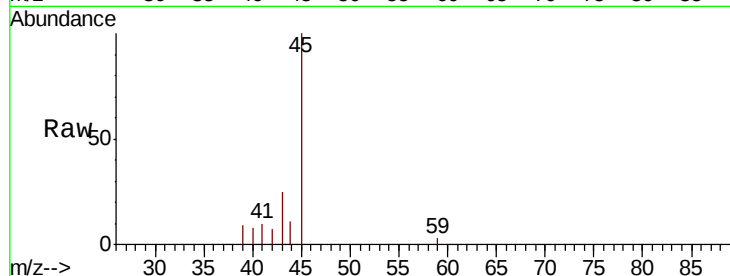
Tot Ion: 41 Resp: 1394

Ion Ratio Lower Upper

41 100

39 68.3 48.6 73.0

76 0.0 26.6 40.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

800

600

400

200

0

4.05

4.10

4.15

4.18

4.20

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

4.70

4.75

4.80

4.85

4.90

4.95

5.00

5.05

5.10

5.15

5.20

5.25

5.30

5.35

5.40

5.45

5.50

5.55

5.60

5.65

5.70

5.75

5.80

5.85

5.90

5.95

6.00

6.05

6.10

6.15

6.20

6.25

6.30

6.35

6.40

6.45

6.50

6.55

6.60

6.65

6.70

6.75

6.80

6.85

6.90

6.95

7.00

7.05

7.10

7.15

7.20

7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

7.80

7.85

7.90

7.95

8.00

8.05

8.10

8.15

8.20

8.25

8.30

8.35

8.40

8.45

8.50

8.55

8.60

8.65

8.70

8.75

8.80

8.85

8.90

8.95

9.00

9.05

9.10

9.15

9.20

9.25

9.30

9.35

9.40

9.45

9.50

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

14.90

14.95

15.00

15.05

15.10

15.15

15.20

15.25

15.30

15.35

15.40

15.45

15.50

15.55

15.60

15.65

15.70

15.75

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

16.35

16.40

16.45

16.50

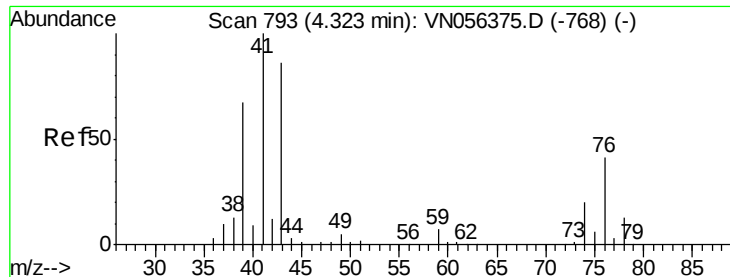
16.55

16.60

16.65

16.70

16.75



#18

Methyl Acetate

Concen: 0.736 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

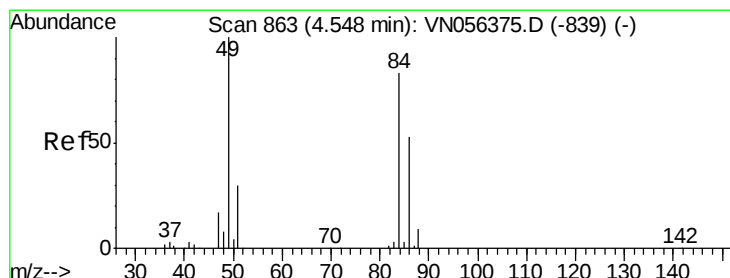
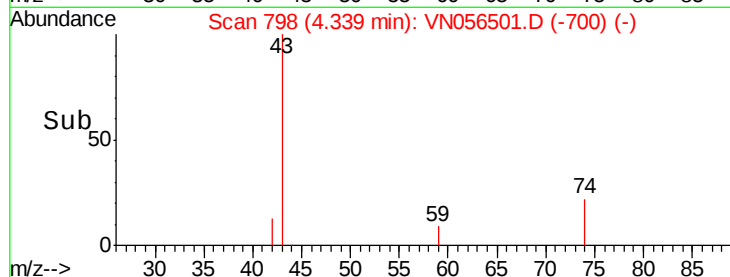
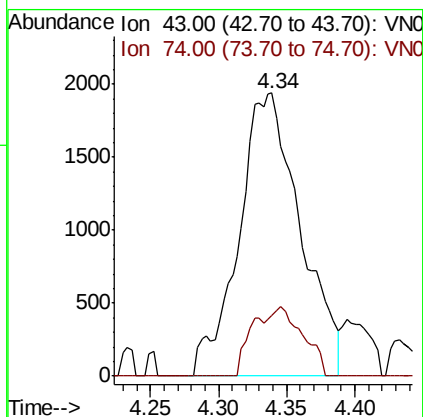
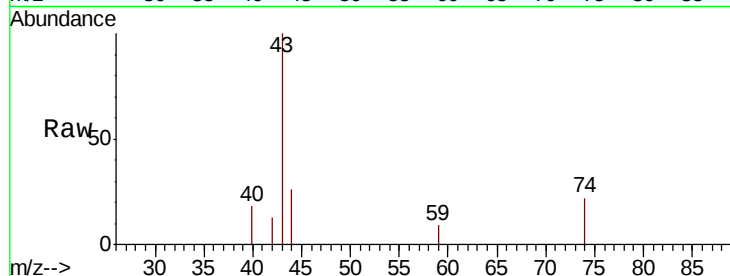
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 6084

Ion Ratio Lower Upper

43 100

74 6.1 19.2 28.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 865

Delta R.T. 0.01 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Tgt Ion: 84 Resp: 902

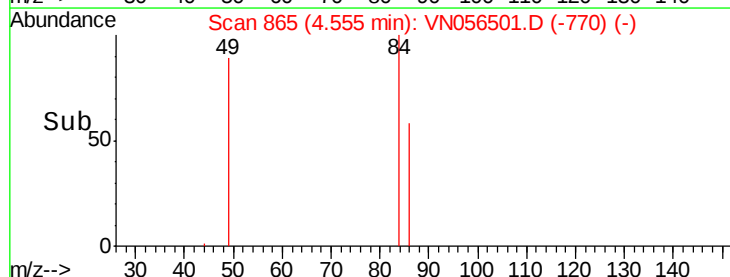
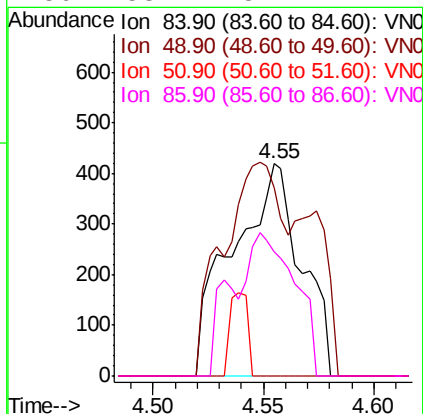
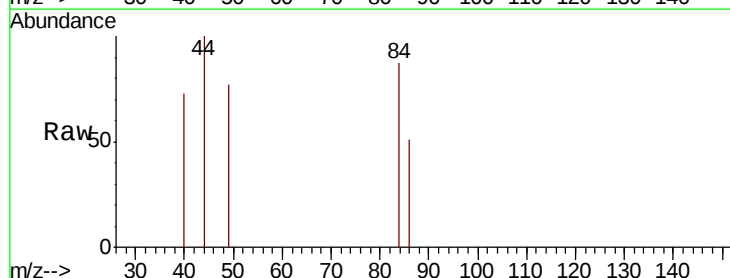
Ion Ratio Lower Upper

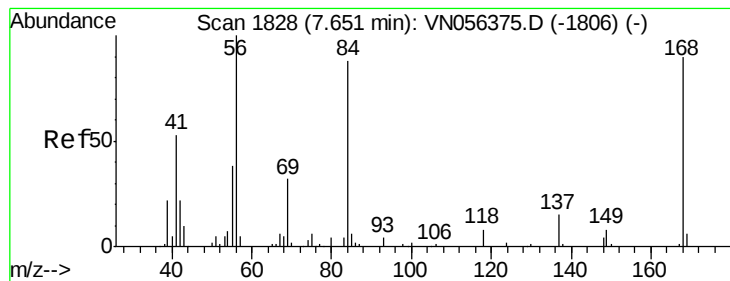
84 100

49 88.8 96.4 144.6#

51 0.0 28.6 43.0#

86 58.2 51.4 77.2





#31

Cyclohexane

Concen: 0.904 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :
MSVOA_N
ClientSampleId :

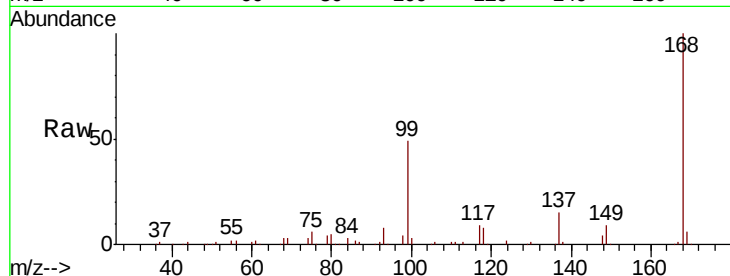
Tot Ion: 56 Resp: 5440

Ion Ratio Lower Upper

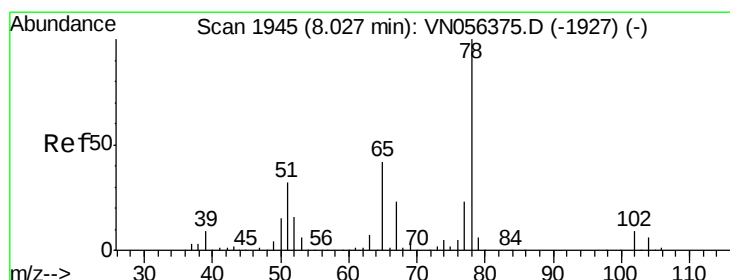
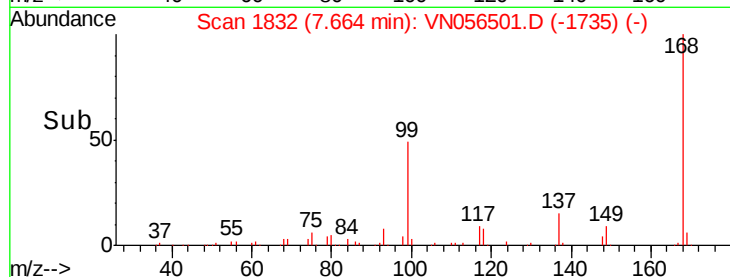
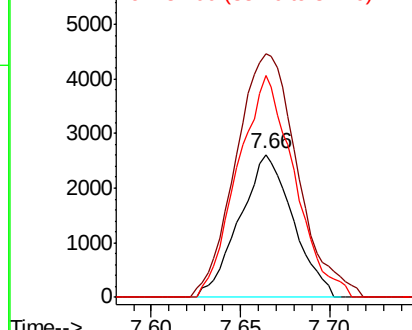
56 100

69 170.8 25.8 38.6#

84 155.6 69.4 104.0#



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: 52.516 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056501.D

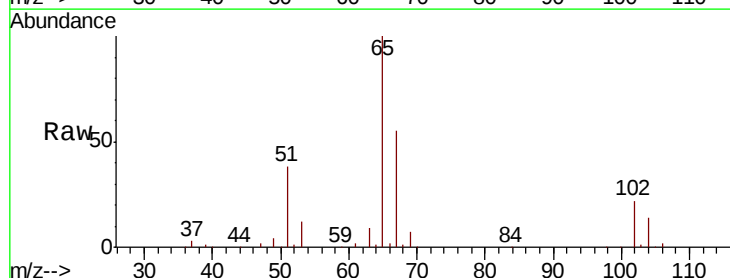
Acq: 26 Jun 2019 13:14

Tgt Ion: 65 Resp: 204645

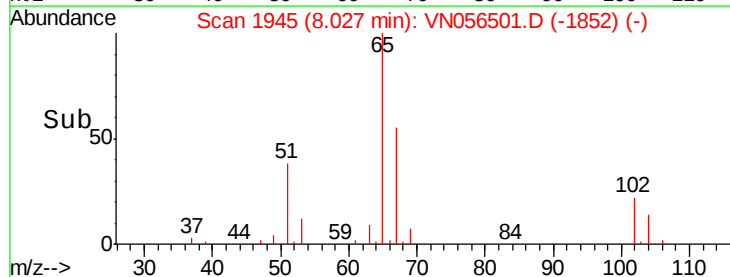
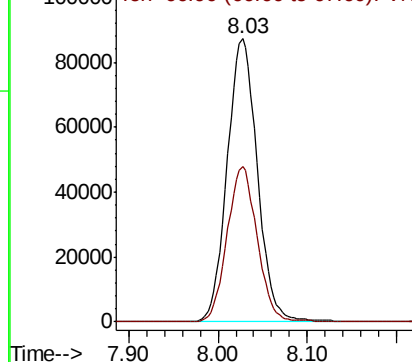
Ion Ratio Lower Upper

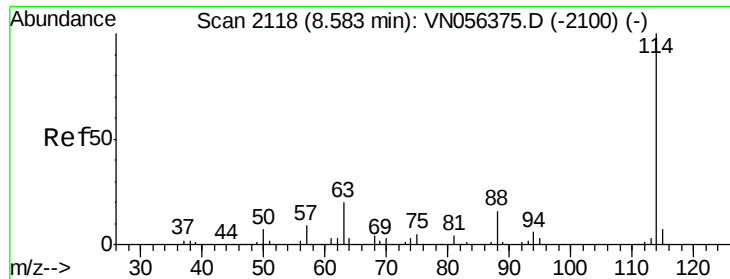
65 100

67 54.7 0.0 109.0



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

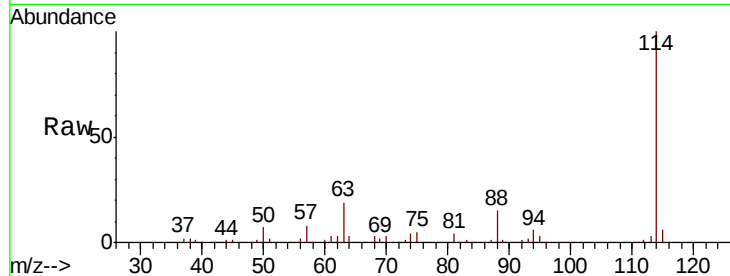




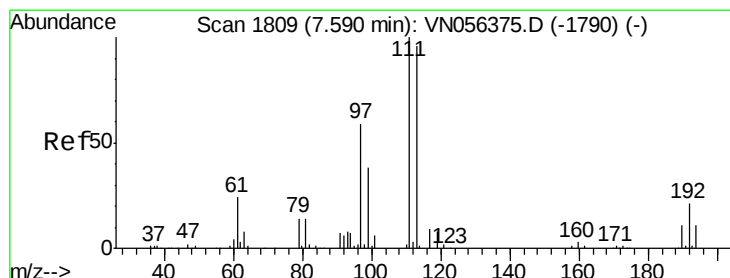
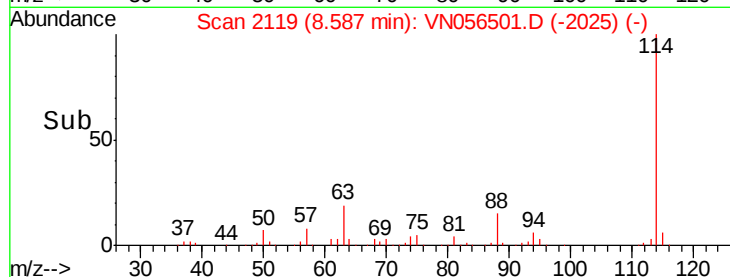
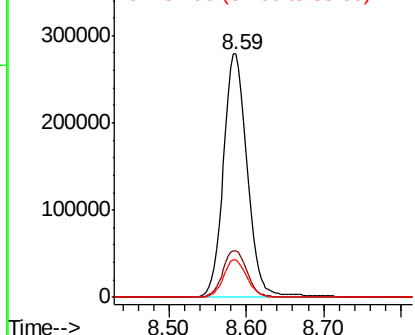
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056501.D
 Acq: 26 Jun 2019 13:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	39.2
88	15.2	0.0	31.4

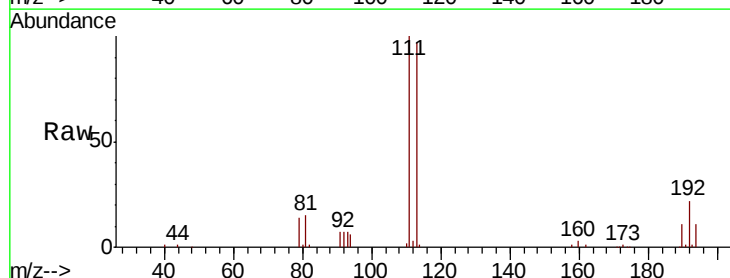


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

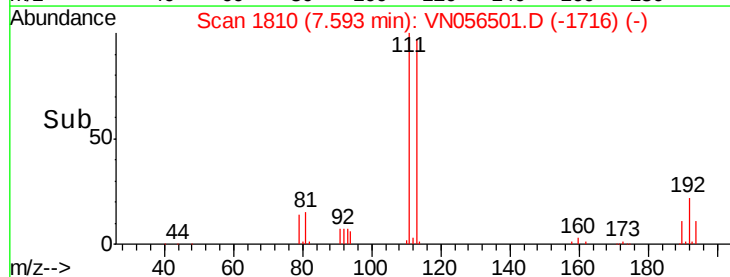
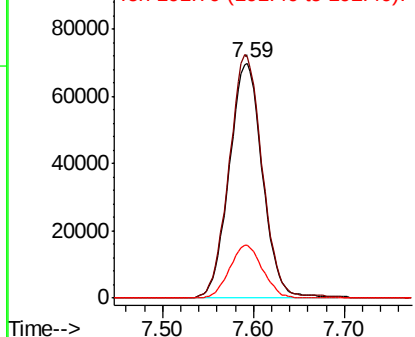


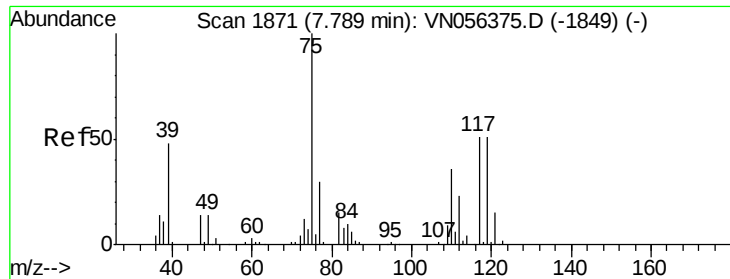
#35
 Dibromofluoromethane
 Concen: 47.355 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056501.D
 Acq: 26 Jun 2019 13:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.9	124.3
192	22.4	17.7	26.5



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

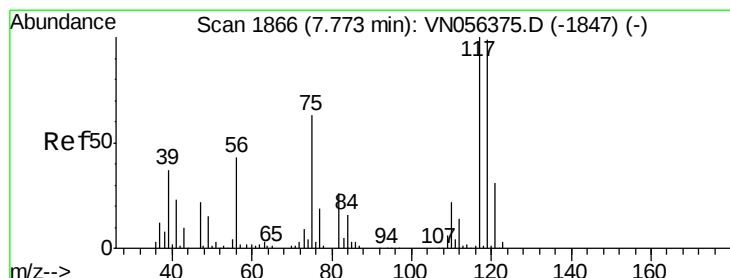
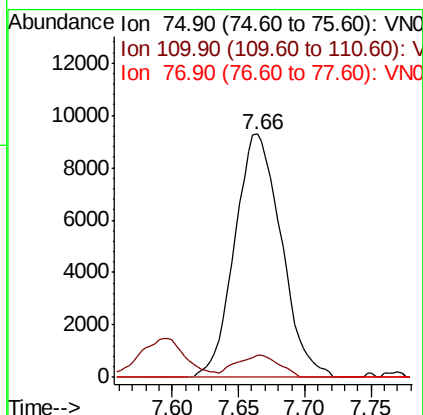
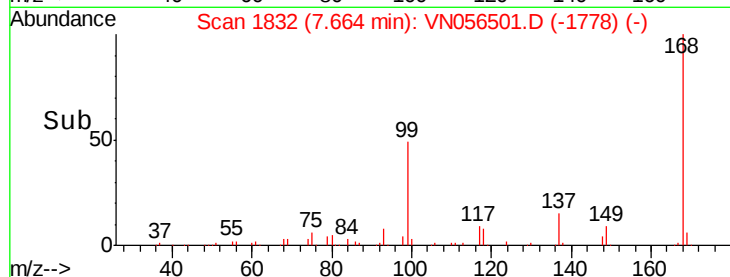
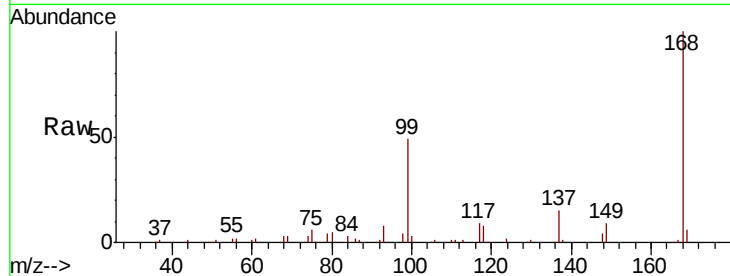




#36
 1,1-Dichloropropene
 Concen: 4.309 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056501.D
 Acq: 26 Jun 2019 13:14

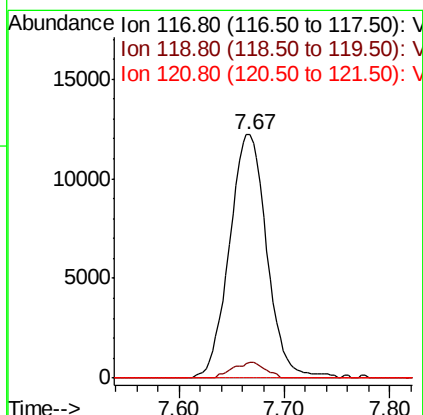
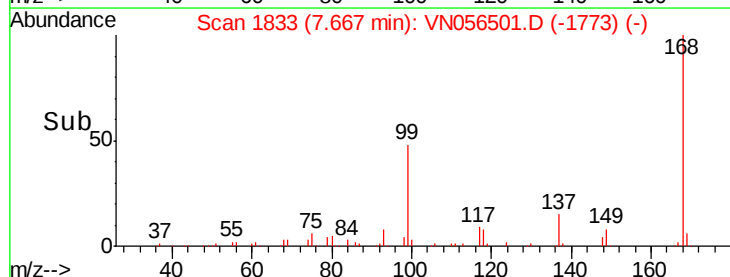
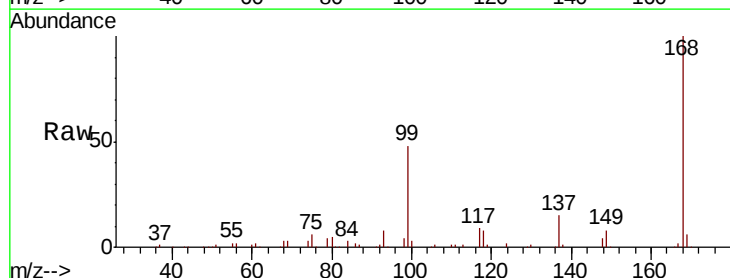
Instrument :
 MSVOA_N
 ClientSampleId :

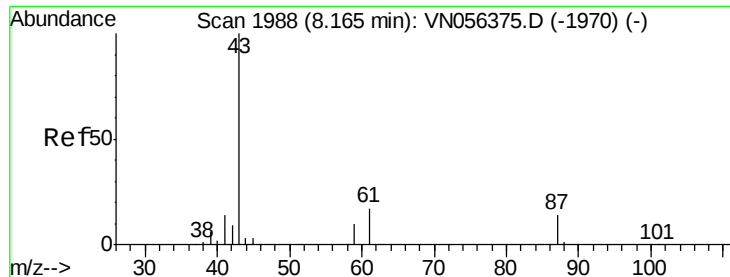
Tot Ion: 75 Resp: 22683
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.3#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.537 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056501.D
 Acq: 26 Jun 2019 13:14

Tgt Ion: 117 Resp: 30093
 Ion Ratio Lower Upper
 117 100
 119 6.5 79.1 118.7#
 121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 9.355 ug/l

RT: 8.34 min Scan# 2042

Delta R.T. 0.17 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

ClientSampled :

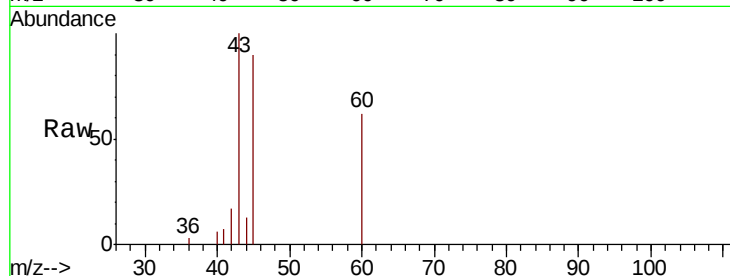
Tot Ion: 43 Resp: 74631

Ion Ratio Lower Upper

43 100

61 0.2 22.0 33.0#

87 0.0 11.0 16.4#

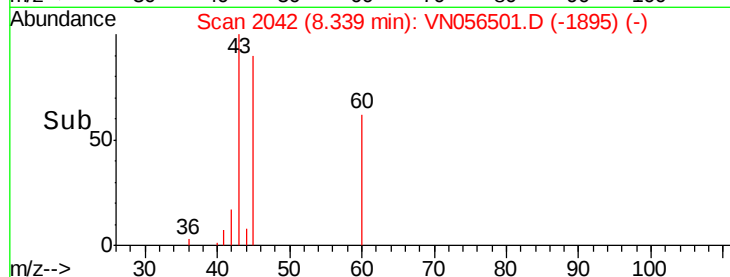


Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN056375.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN056375.D (-1970) (-)

Time-->

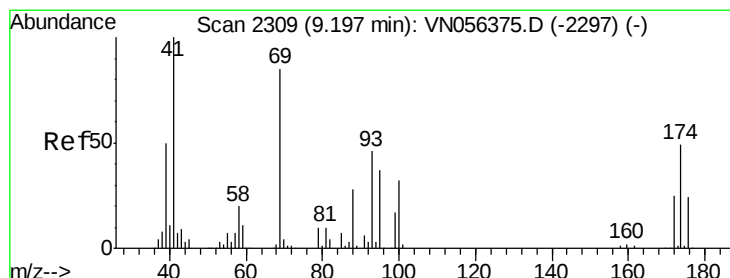


Abundance Ion 43.00 (42.70 to 43.70): VN056501.D (-1895) (-)

Ion 61.00 (60.70 to 61.70): VN056501.D (-1895) (-)

Ion 87.00 (86.70 to 87.70): VN056501.D (-1895) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.308 ug/l

RT: 9.43 min Scan# 2380

Delta R.T. 0.23 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

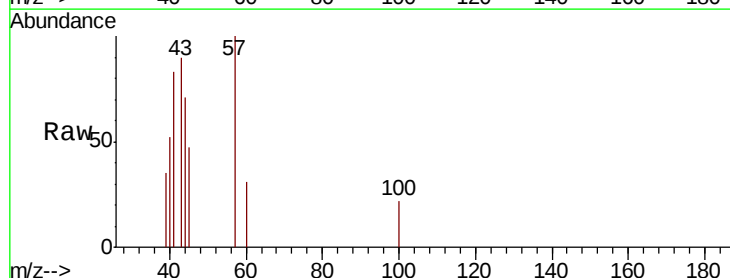
Tgt Ion: 41 Resp: 1231

Ion Ratio Lower Upper

41 100

69 0.0 72.6 109.0#

39 31.9 42.6 63.8#

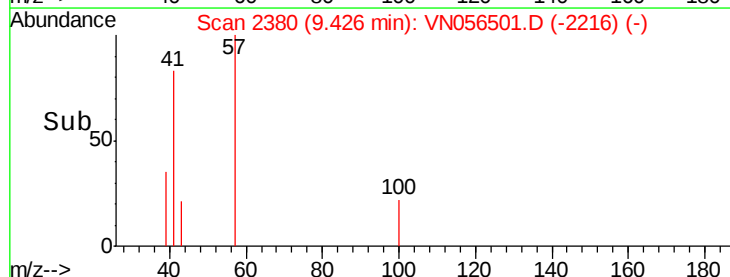


Abundance Ion 41.00 (40.70 to 41.70): VN056375.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN056375.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN056375.D (-2297) (-)

Time-->

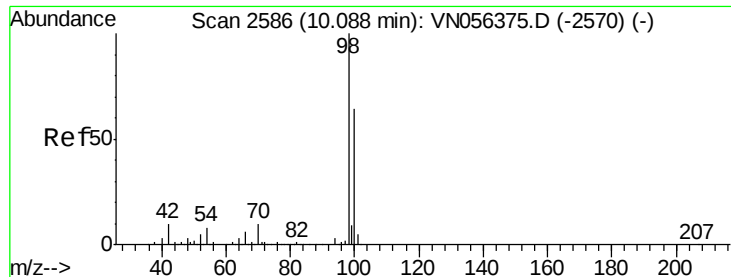


Abundance Ion 41.00 (40.70 to 41.70): VN056501.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN056501.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN056501.D (-2216) (-)

Time-->



#50

Toluene-d8

Concen: 50.692 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

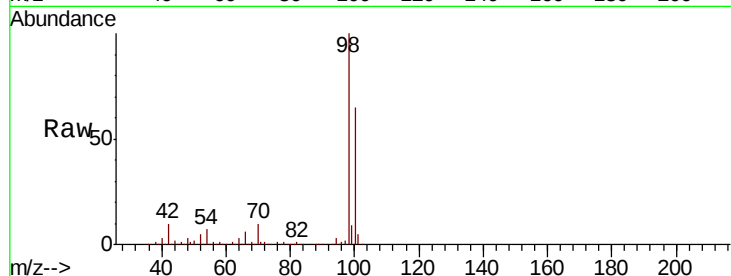
ClientSampled :

Tot Ion: 98 Resp: 735955

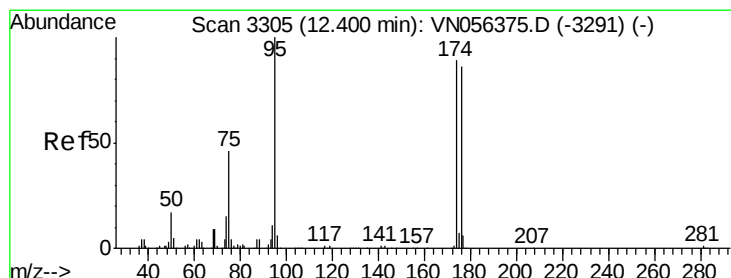
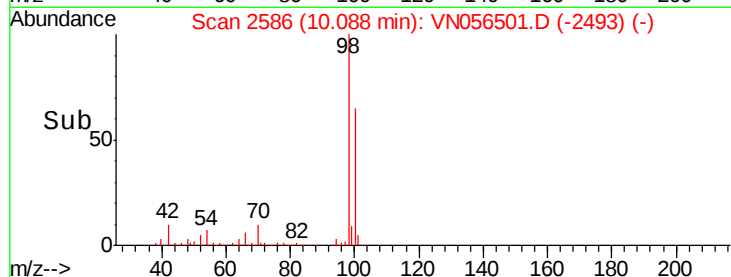
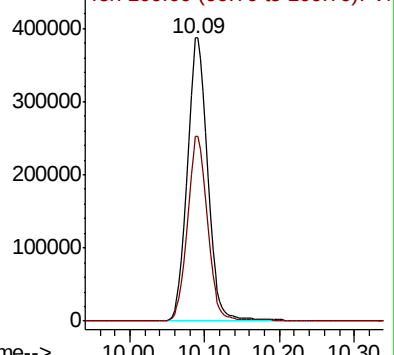
Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)



#62

4-Bromofluorobenzene

Concen: 47.259 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

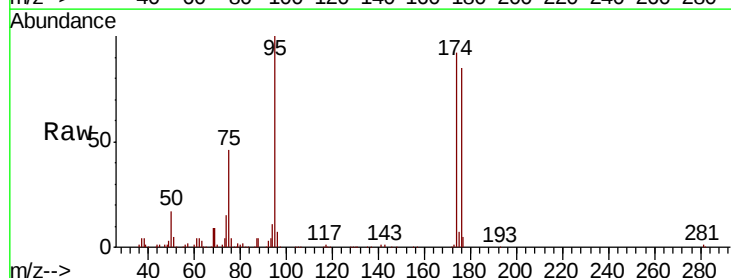
Tgt Ion: 95 Resp: 228721

Ion Ratio Lower Upper

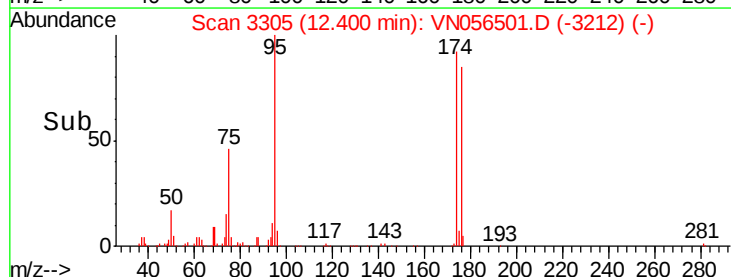
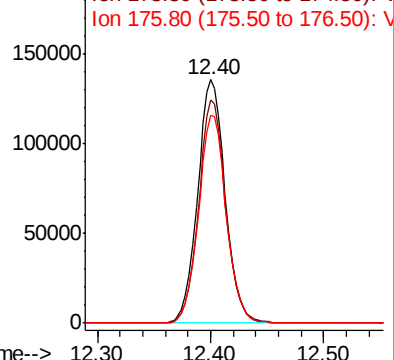
95 100

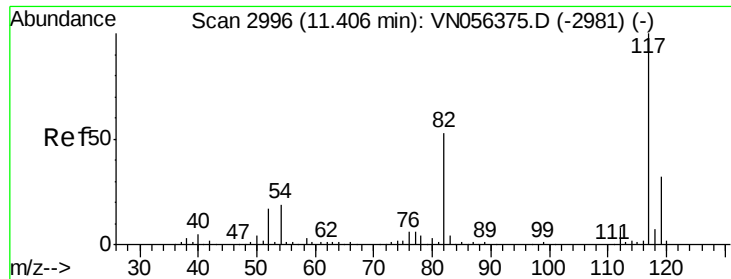
174 90.2 0.0 179.4

176 86.1 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN056375.D (-3291) (-)

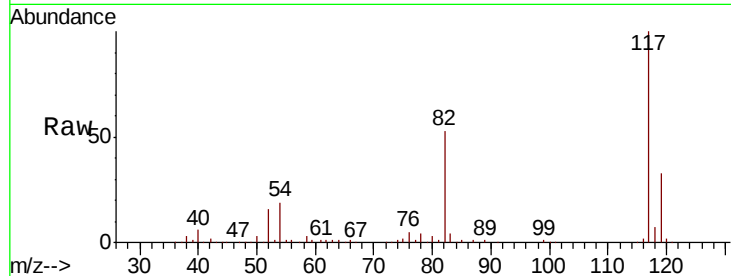




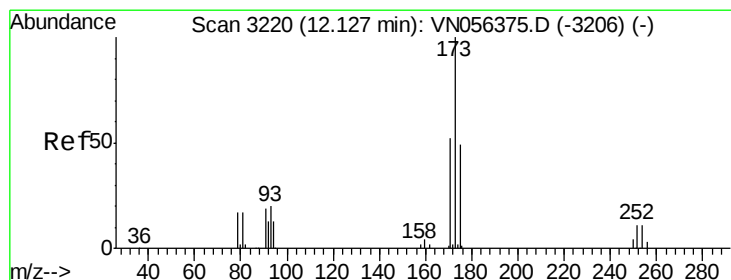
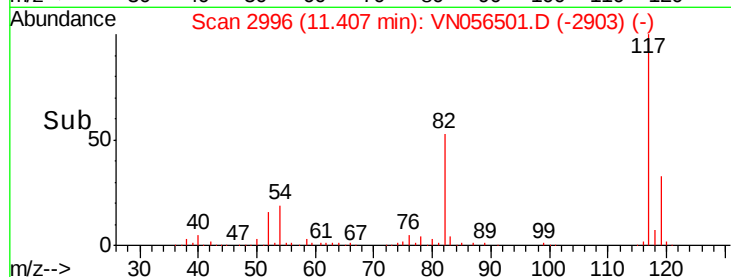
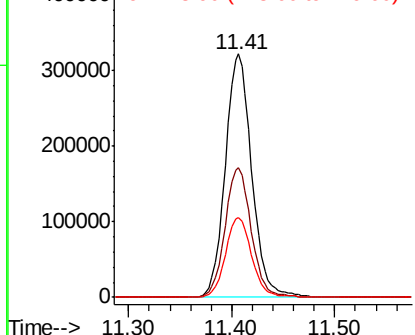
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056501.D
Acq: 26 Jun 2019 13:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 575548
Ion Ratio Lower Upper
117 100
82 53.1 42.0 63.0
119 32.9 25.3 37.9

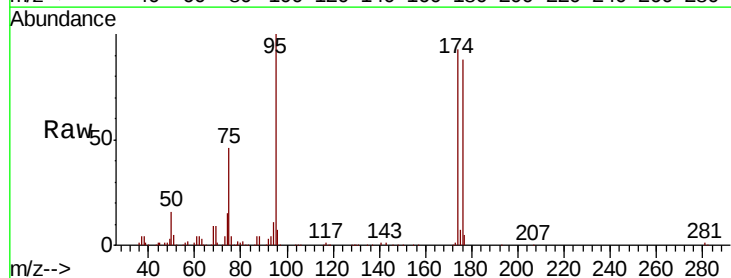


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

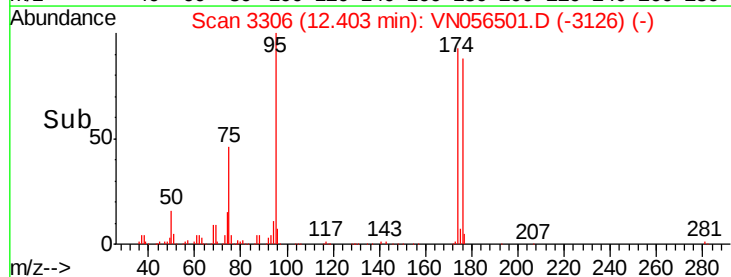
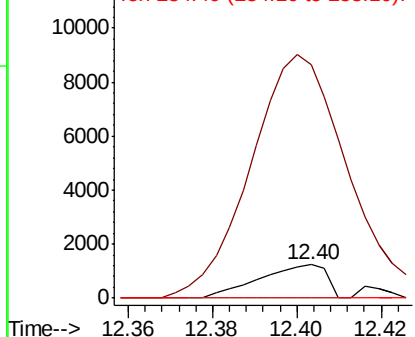


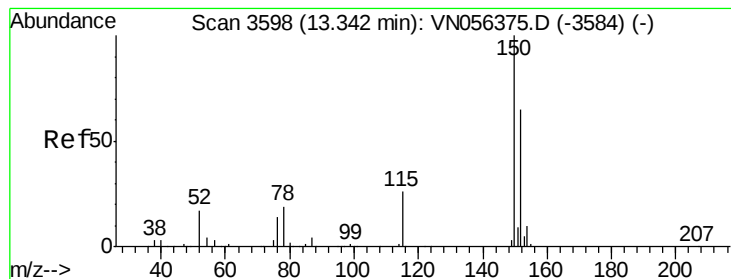
#71
Bromoform
Concen: 3.549 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056501.D
Acq: 26 Jun 2019 13:14

Tgt Ion:173 Resp: 1369
Ion Ratio Lower Upper
173 100
175 937.6 24.4 73.4#
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



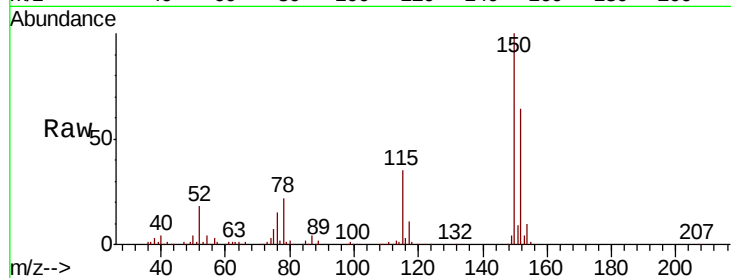


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056501.D
Acq: 26 Jun 2019 13:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	28.1	84.4
150	156.3	0.0	348.4

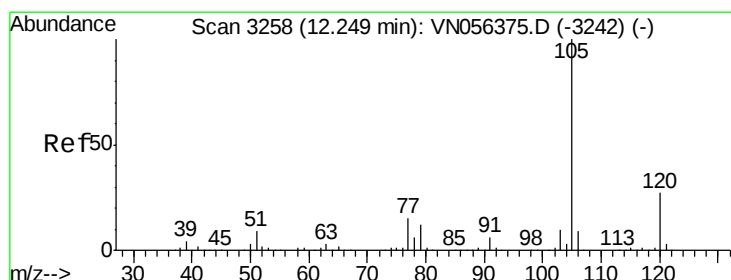
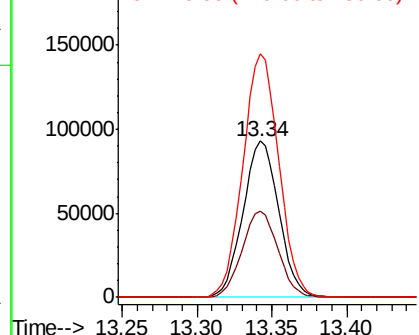
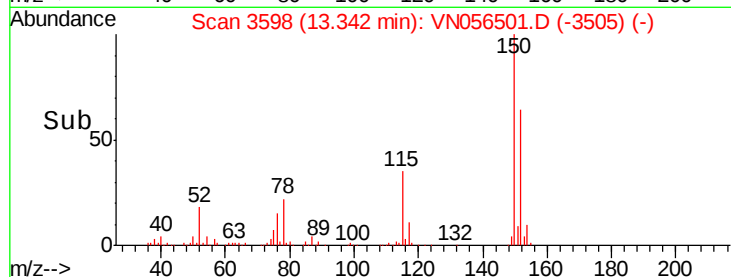


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

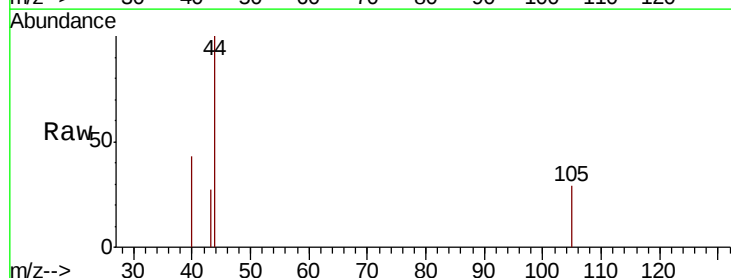
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN056501.D
Acq: 26 Jun 2019 13:14

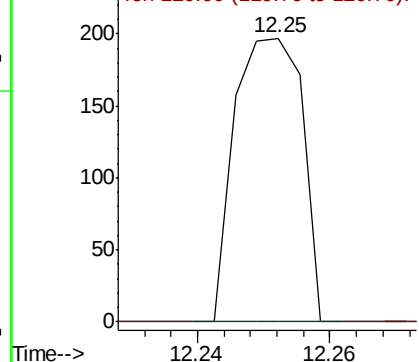
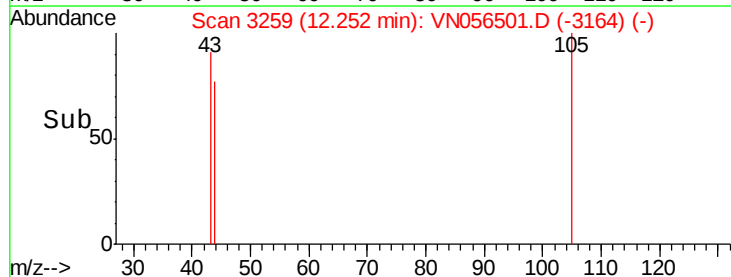
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.4	40.2#

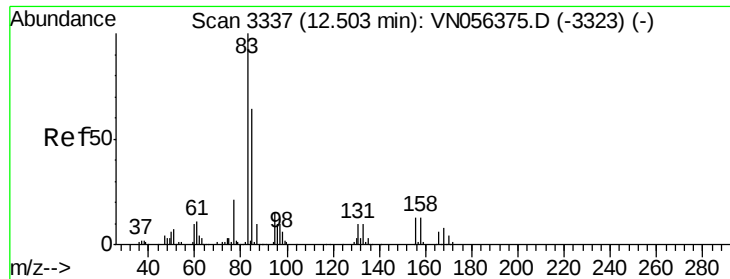


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

ClientSampleId :

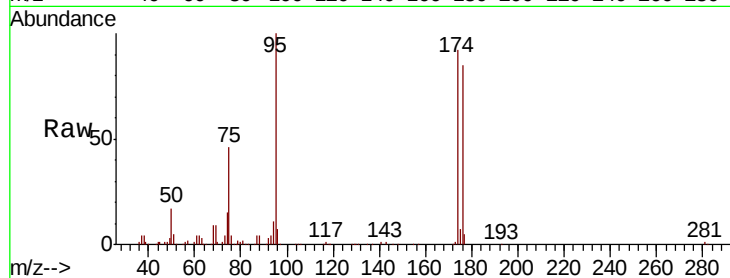
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

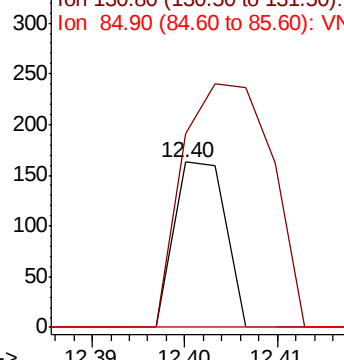
83 100

131 258.1 5.3 15.8#

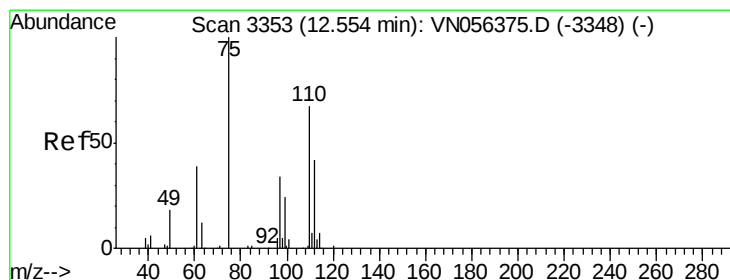
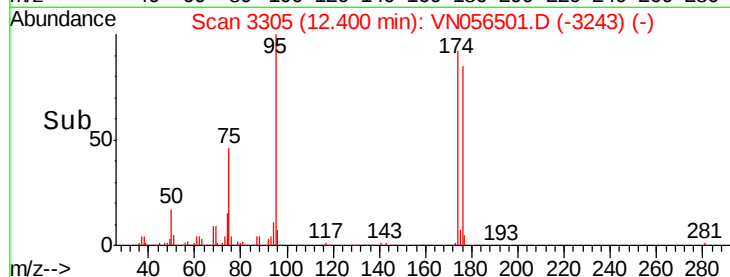
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



Time-->



#76

1,2,3-Trichloropropane

Concen: 32.690 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056501.D

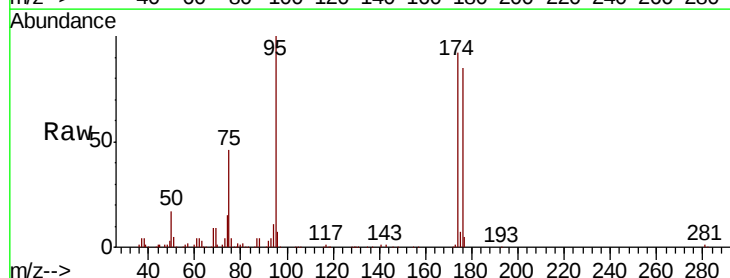
Acq: 26 Jun 2019 13:14

Tgt Ion: 75 Resp: 105333

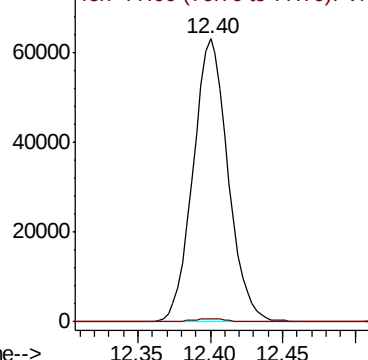
Ion Ratio Lower Upper

75 100

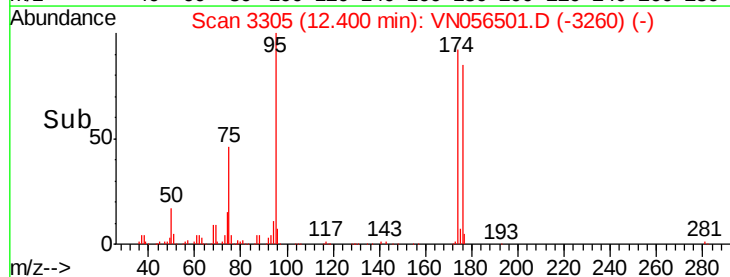
77 1.0 0.0 0.0#

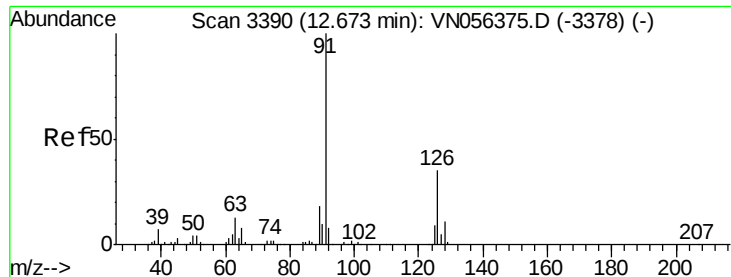


Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO



Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

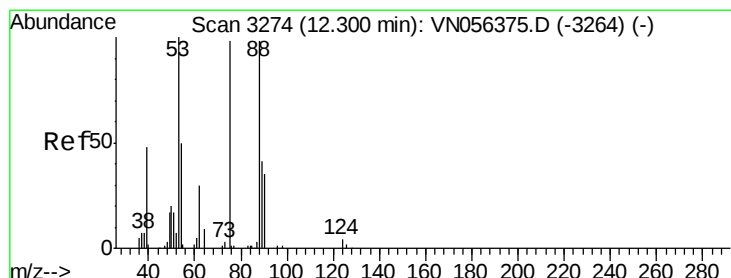
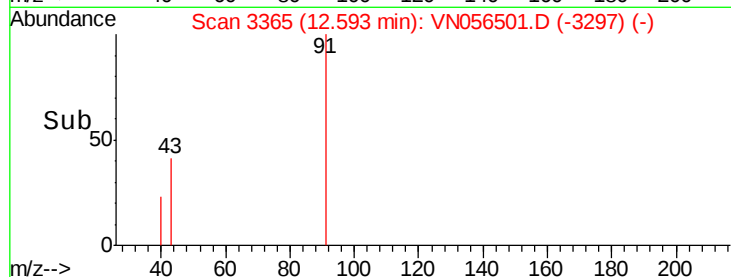
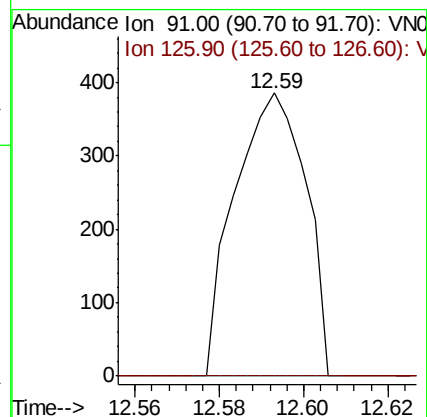
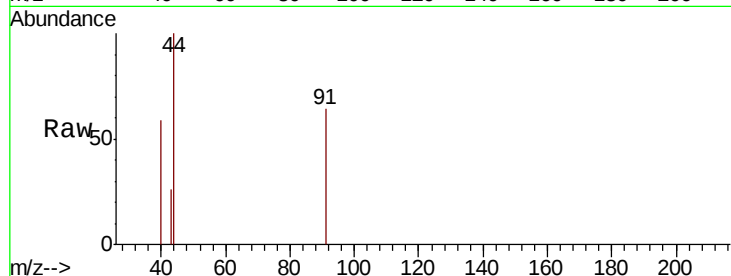
ClientSampleId :

Tot Ion: 91 Resp: 448

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 116.183 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

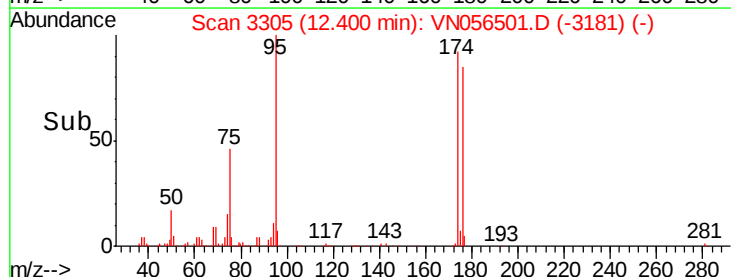
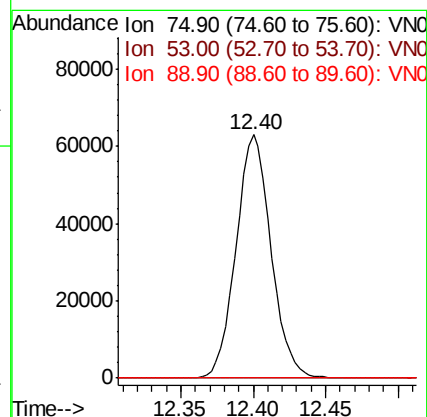
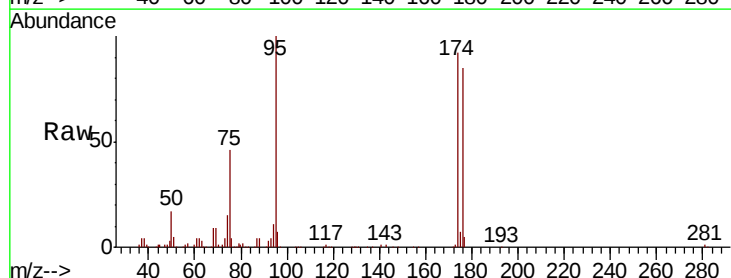
Tgt Ion: 75 Resp: 105333

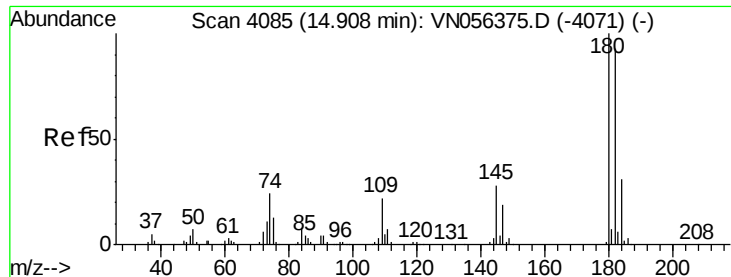
Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

89 0.0 35.0 52.6#





#93

1,2,4-Trichlorobenzene

Concen: 5.689 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

Instrument :

MSVOA_N

ClientSampleId :

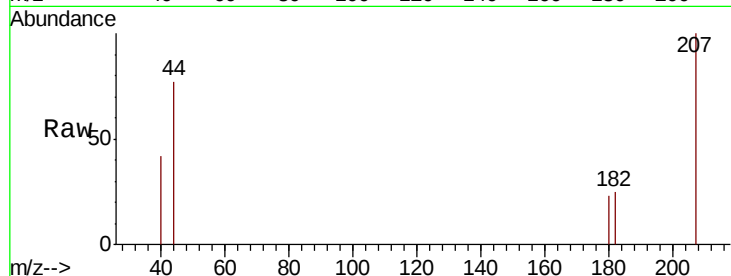
Tot Ion:180 Resp: 230

Ion Ratio Lower Upper

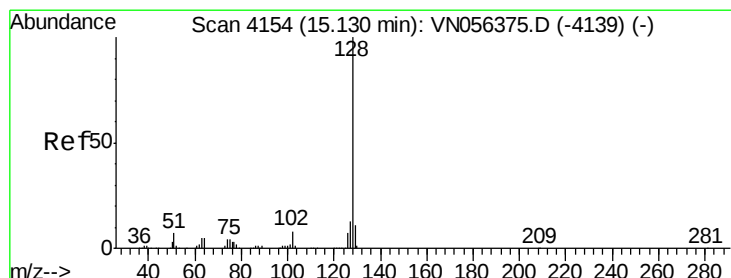
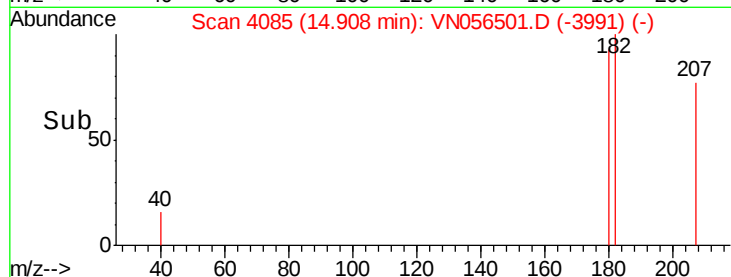
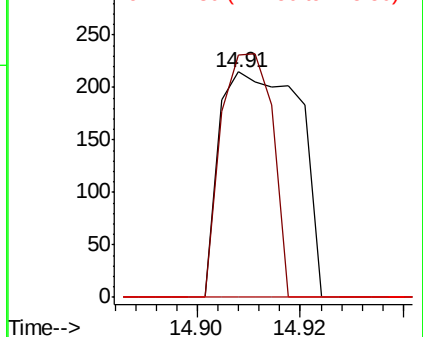
180 100

182 69.1 46.9 140.6

145 0.0 14.4 43.0#



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: 5.344 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056501.D

Acq: 26 Jun 2019 13:14

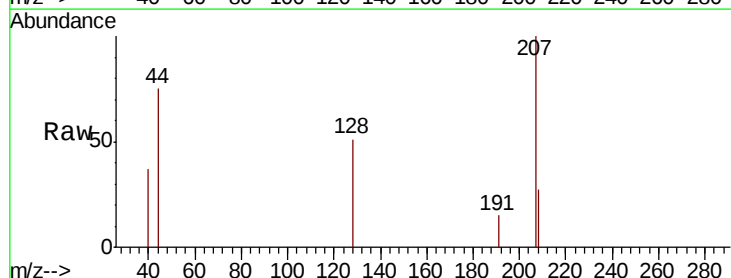
Tgt Ion:128 Resp: 786

Ion Ratio Lower Upper

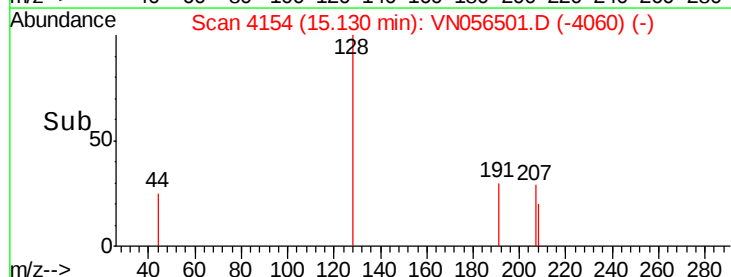
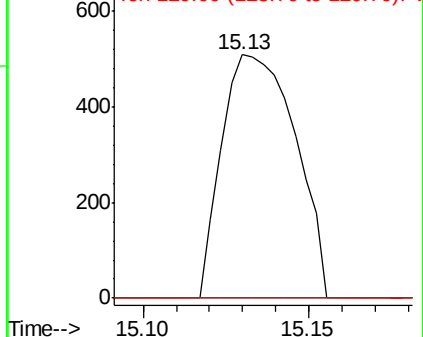
128 100

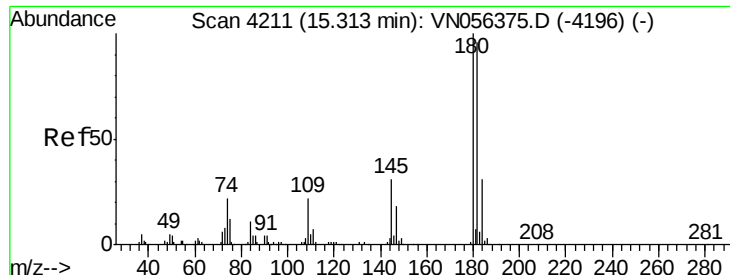
127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

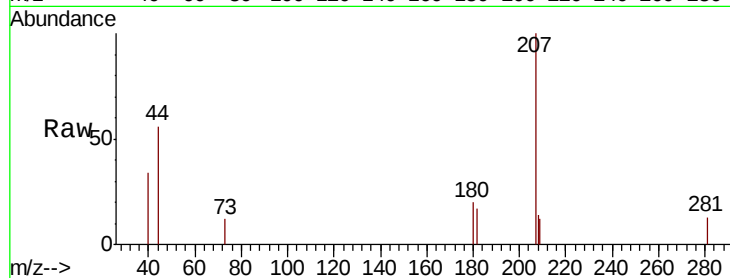




#96
 1,2,3-Trichlorobenzene
 Concen: 4.567 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN056501.D
 Acq: 26 Jun 2019 13:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	55.7	48.3	144.8
145	0.0	15.4	46.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

