

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054725.D
 Acq On : 27 Mar 2019 16:36
 Operator : JC/SP
 Sample : K2097-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:37:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	542372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	902406	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	755536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	260294	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	368605	54.64	ug/l	0.00
Spiked Amount			Recovery	=	109.28%	
35) Dibromofluoromethane	7.59	113	289918	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
50) Toluene-d8	10.09	98	1071483	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	12.40	95	325346	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	

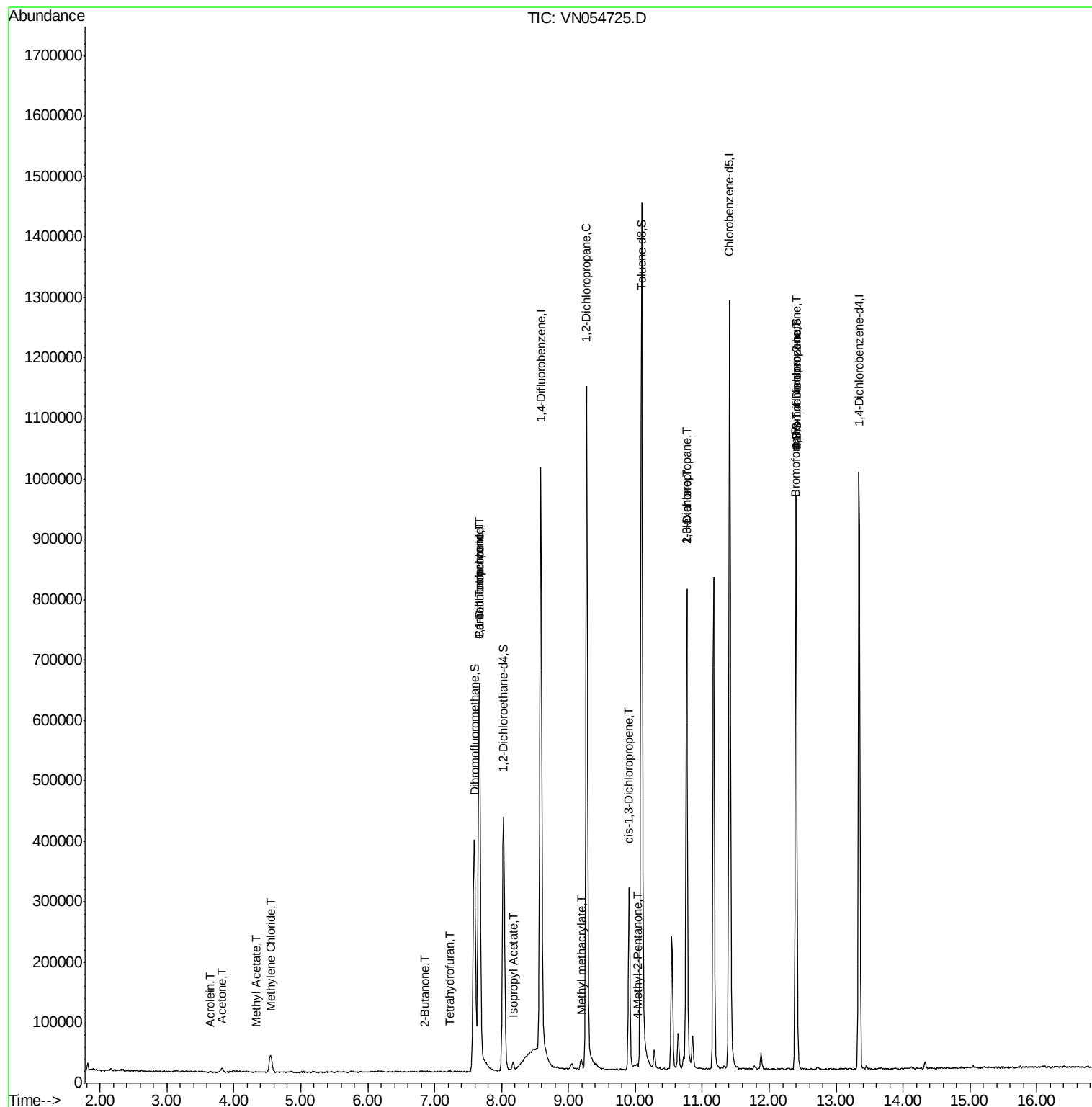
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.64	56	212	0.376	ug/l #	31
16) Acetone	3.82	43	10314	5.085	ug/l	92
18) Methyl Acetate	4.34	43	1914	0.423	ug/l #	52
20) Methylene Chloride	4.54	84	19178	3.208	ug/l	87
25) 2-Butanone	6.85	43	746	0.287	ug/l #	46
29) Tetrahydrofuran	7.23	42	1174	0.696	ug/l #	56
31) Cyclohexane	7.66	56	11622	Below Cal	#	23
36) 1,1-Dichloropropene	7.67	75	40696	4.823	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51242	6.249	ug/l #	16
43) Isopropyl Acetate	8.17	43	15447	1.524	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	1472	0.227	ug/l #	43
48) Methyl methacrylate	9.18	41	6428	1.169	ug/l #	11
51) 4-Methyl-2-Pentanone	10.03	43	7316	1.303	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	48345	5.256	ug/l #	75
57) 1,3-Dichloropropane	10.76	76	8177	0.882	ug/l #	43
59) 2-Hexanone	10.77	43	130299	35.515	ug/l #	48
71) Bromoform	12.39	173	293	2.294	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	167794	40.623	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167794	134.332	ug/l #	11

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

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QLast Update : Fri Mar 22 02:09:07 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: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

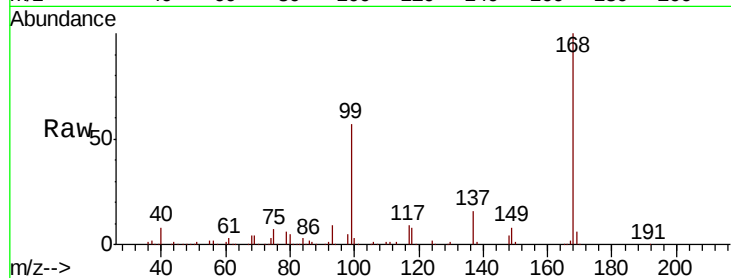
ClientSampled :

Tot Ion:168 Resp: 542372

Ion Ratio Lower Upper

168 100

99 56.5 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

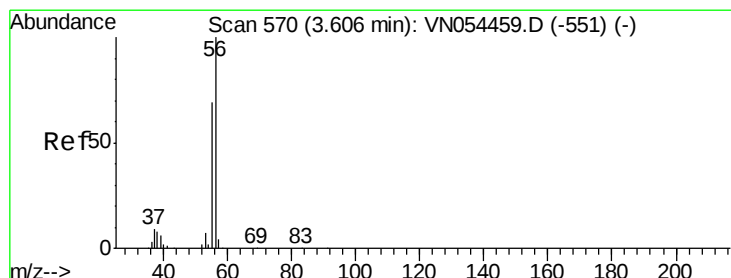
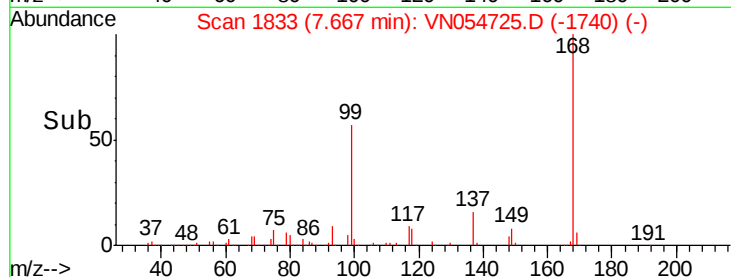
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#13

Acrolein

Concen: 0.376 ug/l

RT: 3.64 min Scan# 579

Delta R.T. 0.03 min

Lab File: VN054725.D

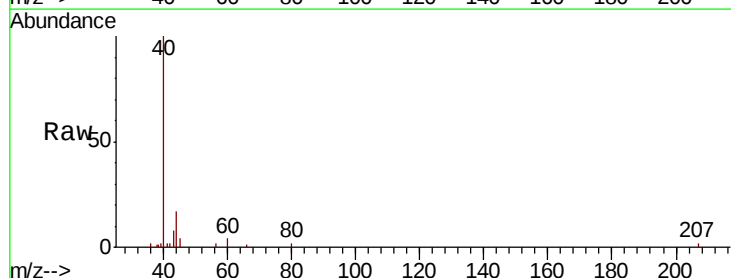
Acq: 27 Mar 2019 16:36

Tgt Ion: 56 Resp: 212

Ion Ratio Lower Upper

56 100

55 13.7 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.64

250

200

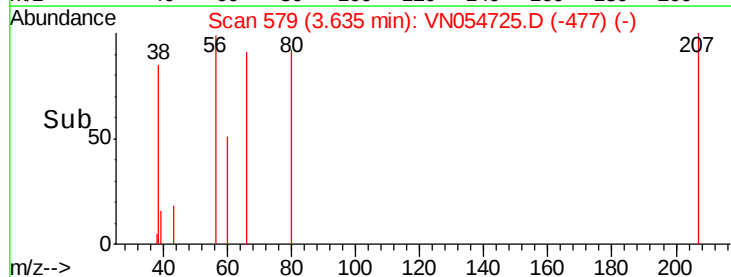
150

100

50

0

Time--> 3.62 3.64





#16

Acetone

Concen: 5.085 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

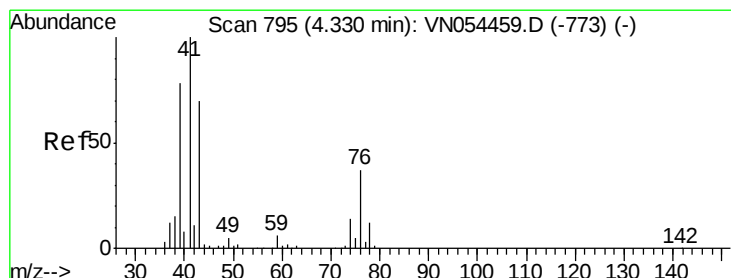
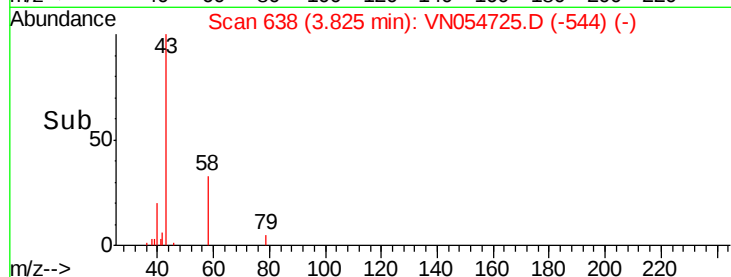
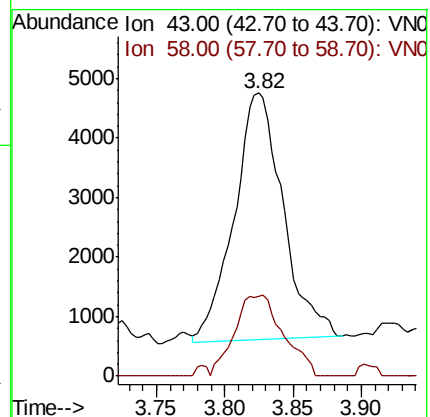
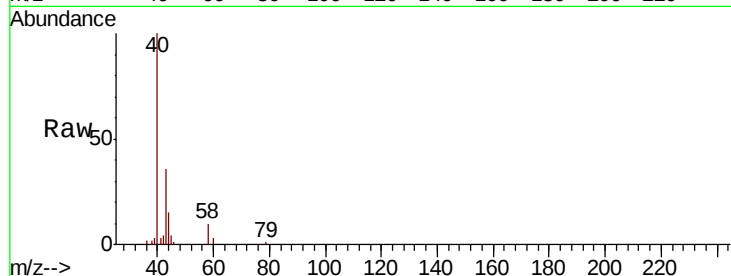
ClientSampled :

Tot Ion: 43 Resp: 10314

Ion Ratio Lower Upper

43 100

58 32.7 29.9 44.9



#18

Methyl Acetate

Concen: 0.423 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN054725.D

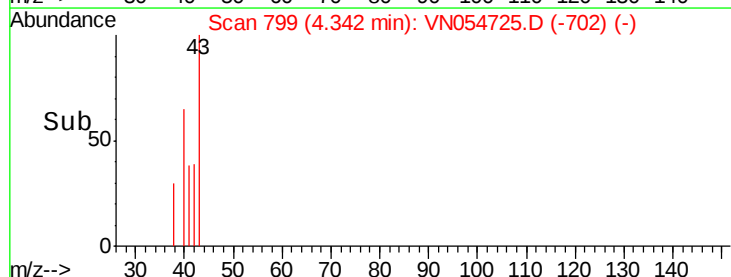
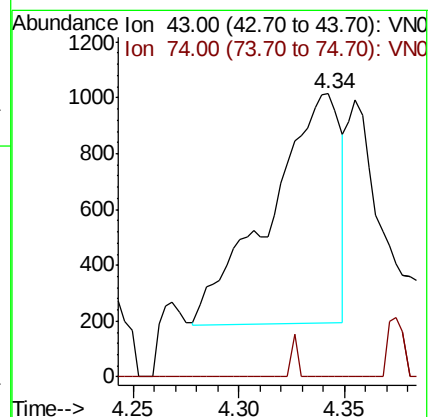
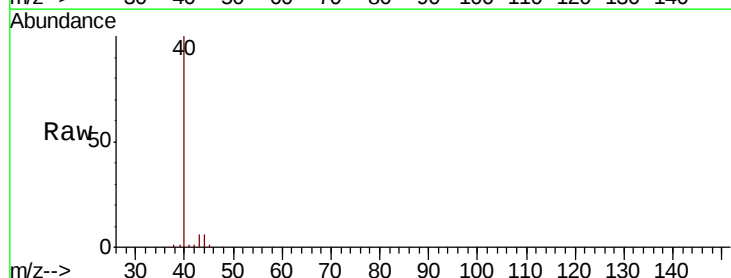
Acq: 27 Mar 2019 16:36

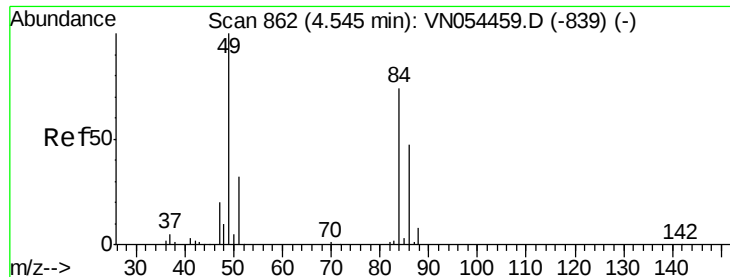
Tgt Ion: 43 Resp: 1914

Ion Ratio Lower Upper

43 100

74 1.5 20.8 31.2#

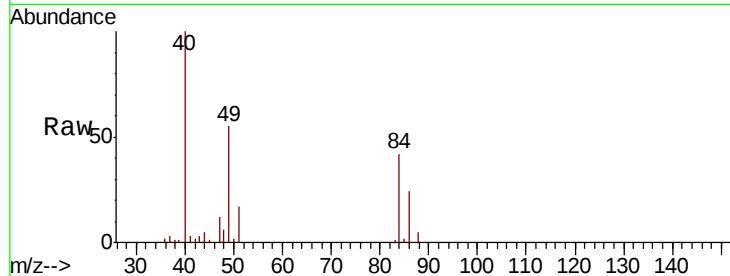




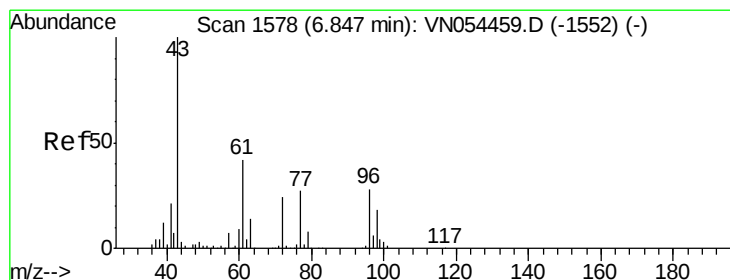
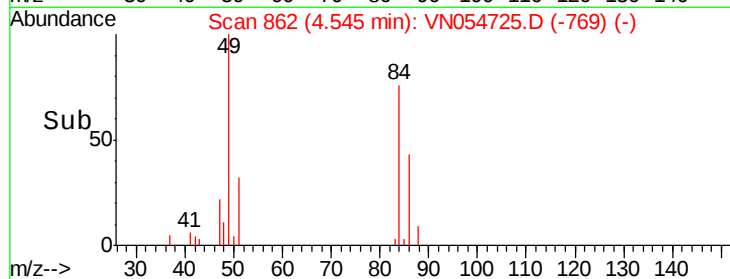
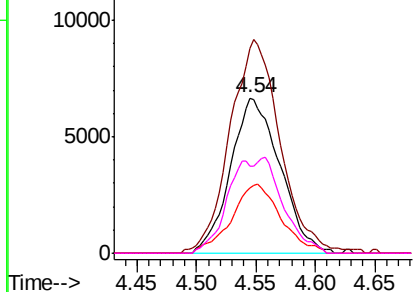
#20
Methvlene Chloride
Concen: 3.208 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 19178
Ion Ratio Lower Upper
84 100
49 129.2 89.7 134.5
51 41.8 28.2 42.4
86 56.6 50.8 76.2

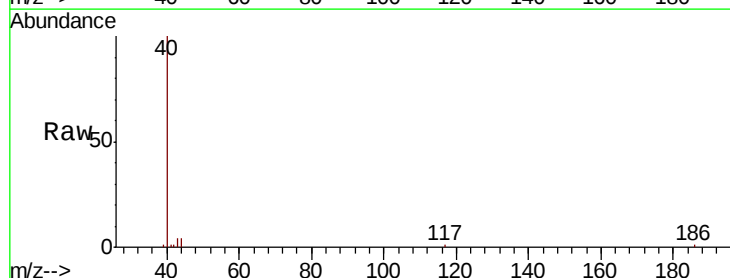


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

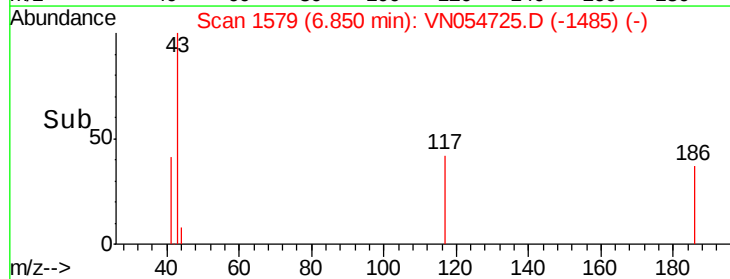
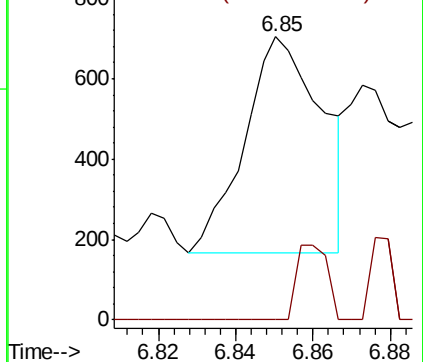


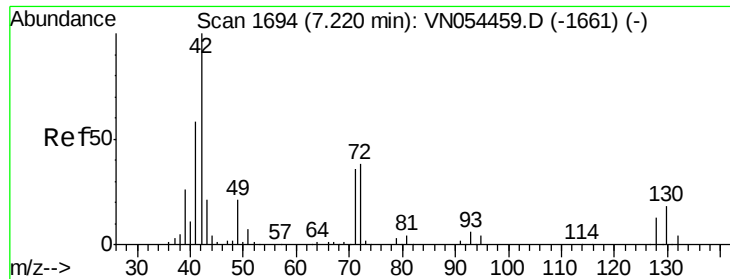
#25
2-Butanone
Concen: 0.287 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

Tgt Ion: 43 Resp: 746
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.696 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

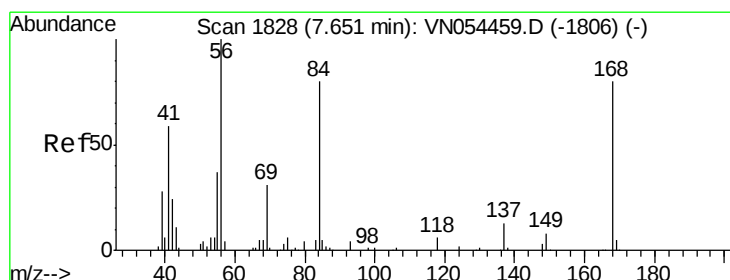
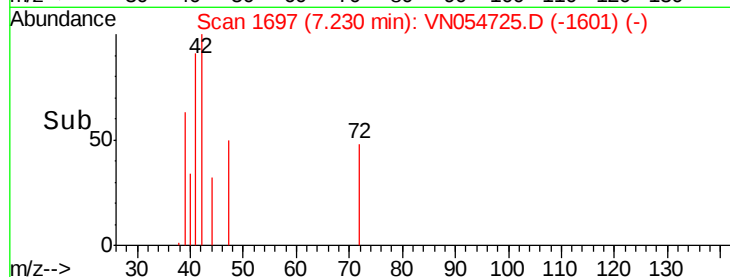
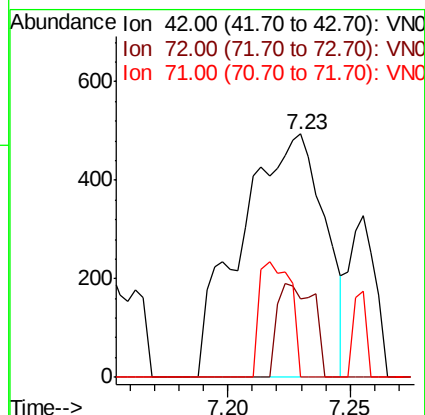
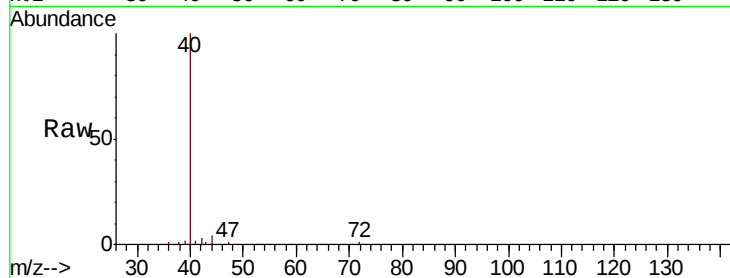
Tot Ion: 42 Resp: 1174

Ion Ratio Lower Upper

42 100

72 16.7 37.8 56.6#

71 17.5 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

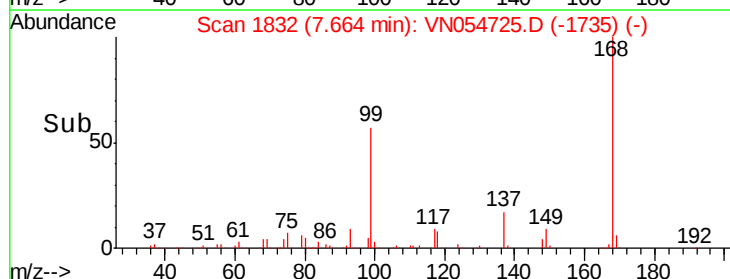
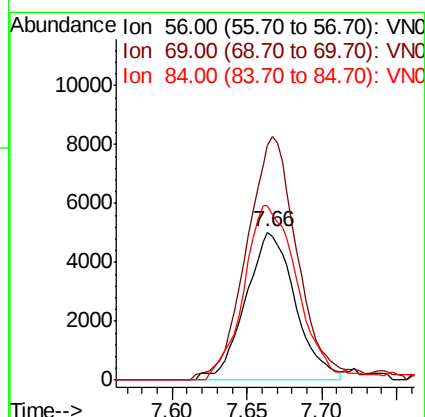
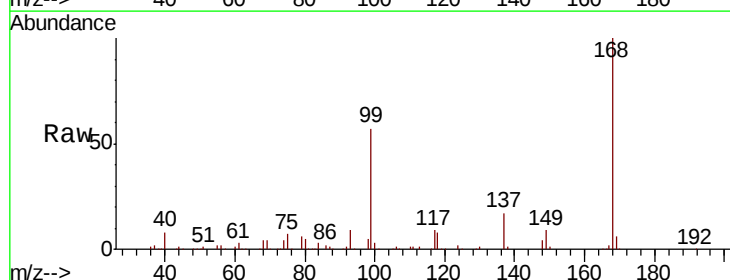
Tgt Ion: 56 Resp: 11622

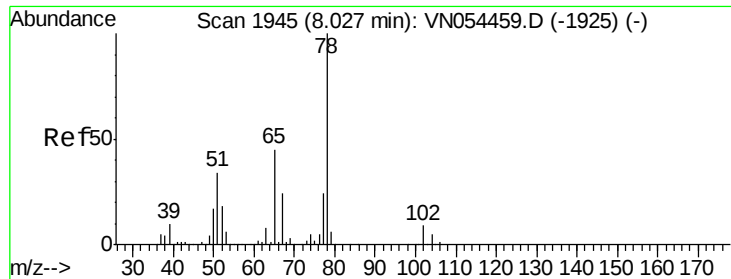
Ion Ratio Lower Upper

56 100

69 158.6 27.8 41.6#

84 118.5 74.6 111.8#

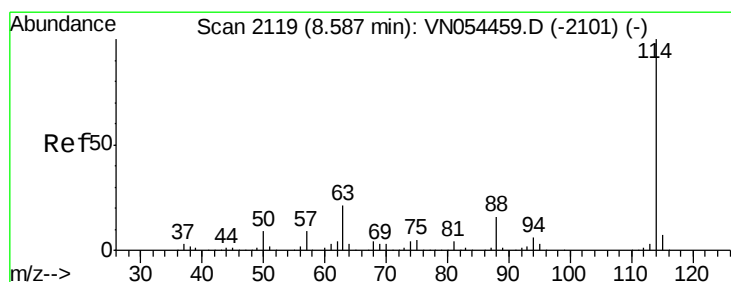
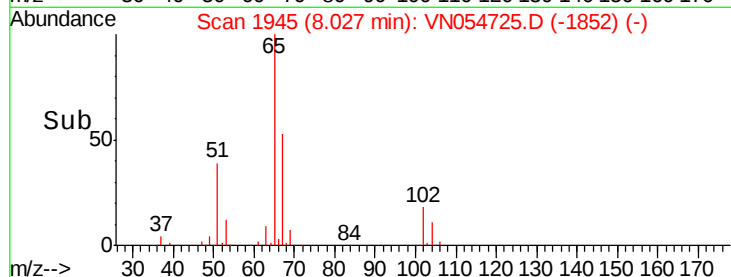
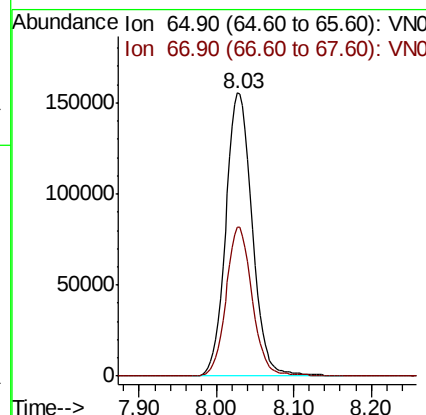
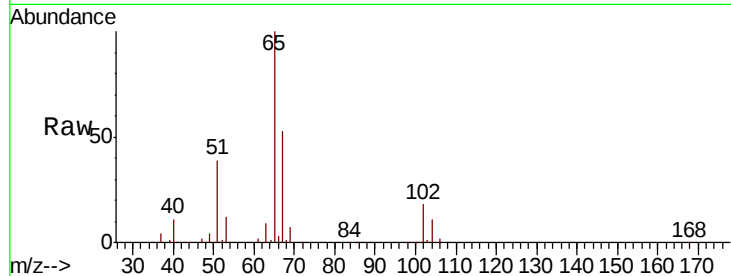




#33
 1,2-Dichloroethane-d4
 Concen: 54.639 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054725.D
 Acq: 27 Mar 2019 16:36

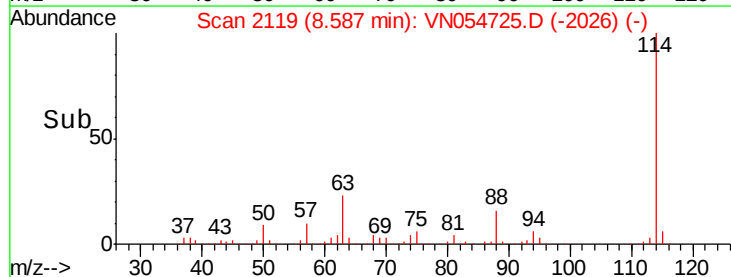
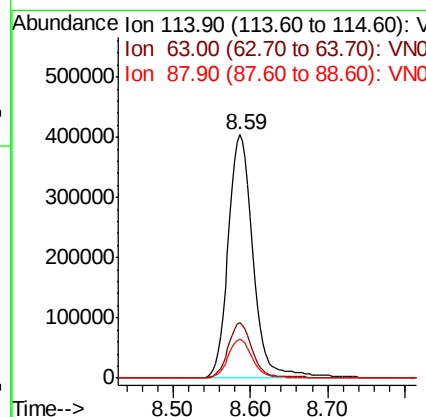
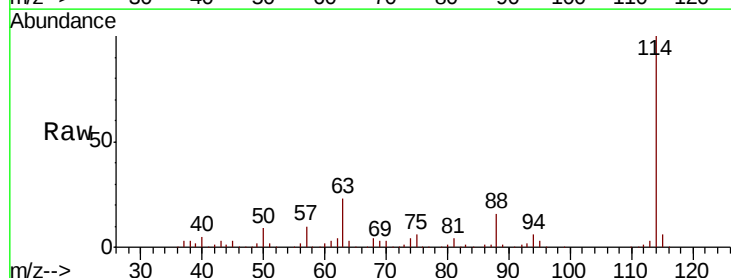
Instrument :
 MSVOA_N
 ClientSampleId :

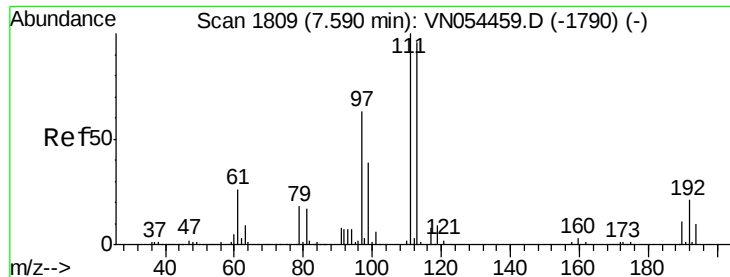
Tot Ion: 65 Resp: 368605
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054725.D
 Acq: 27 Mar 2019 16:36

Tgt Ion: 114 Resp: 902406
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 15.8 0.0 30.2

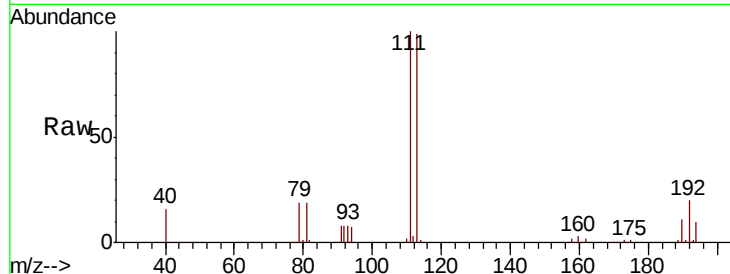




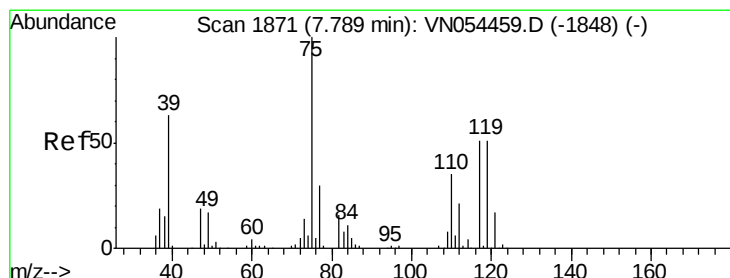
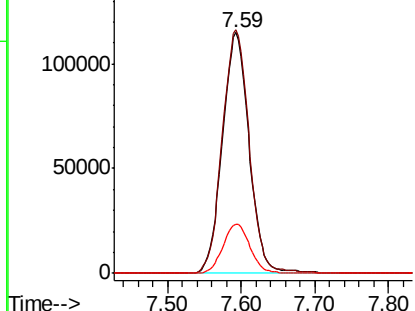
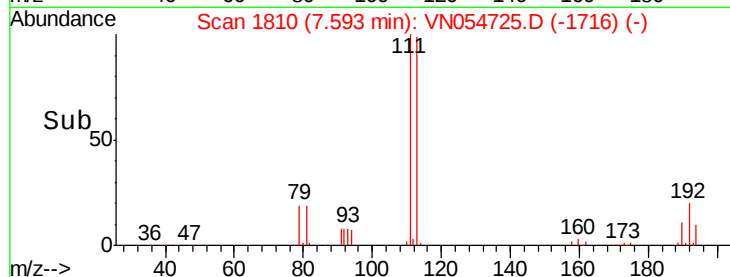
#35
 Dibromofluoromethane
 Concen: 49.868 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054725.D
 Acq: 27 Mar 2019 16:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.2	123.4
192	20.6	19.2	28.8

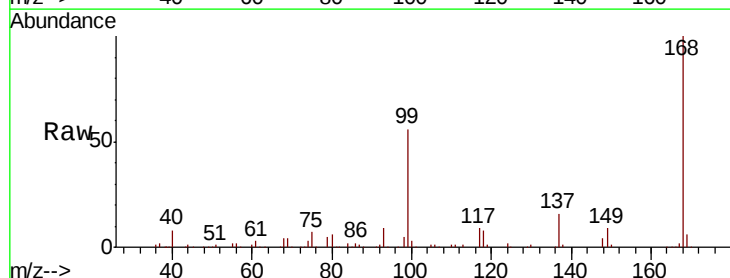


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

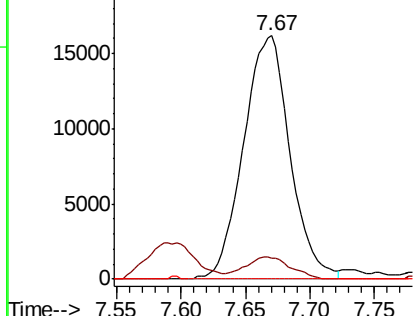
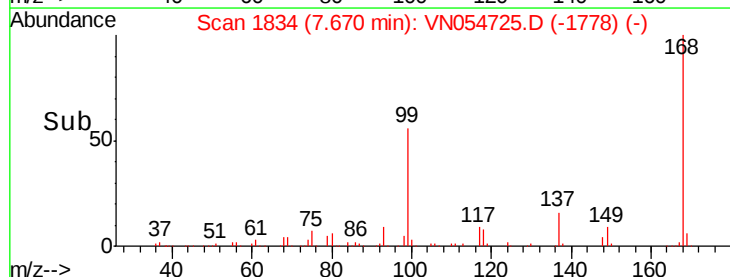


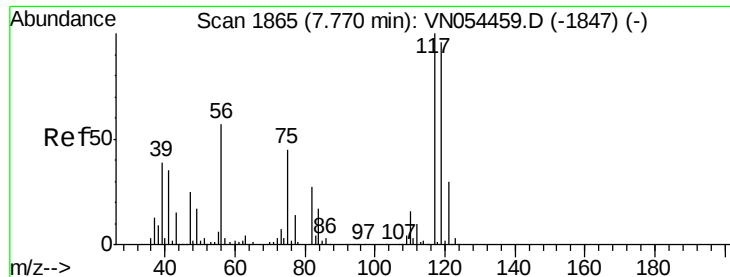
#36
 1,1-Dichloropropene
 Concen: 4.823 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN054725.D
 Acq: 27 Mar 2019 16:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.1	57.5#
77	0.0	25.0	37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.249 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

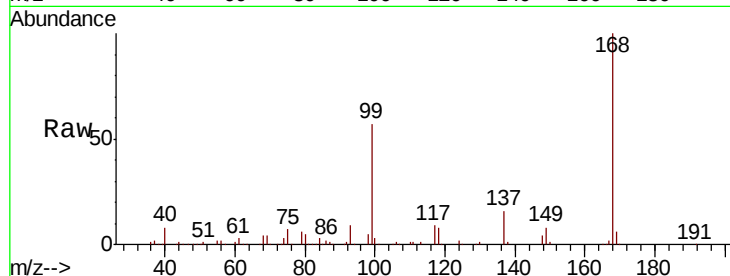
Tot Ion:117 Resp: 51242

Ion Ratio Lower Upper

117 100

119 4.3 76.3 114.5#

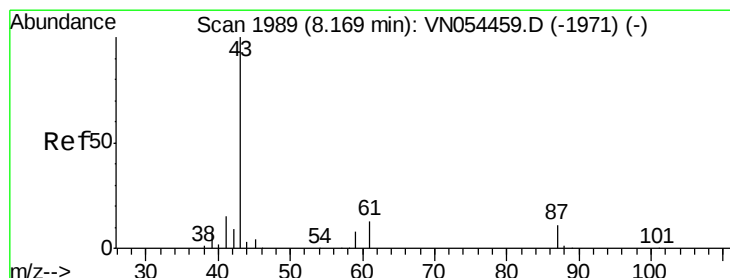
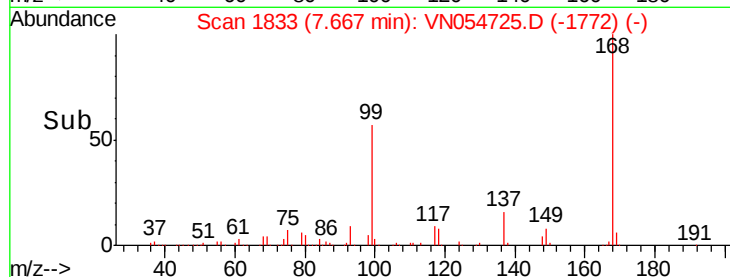
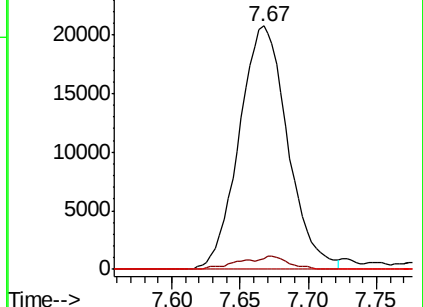
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.524 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

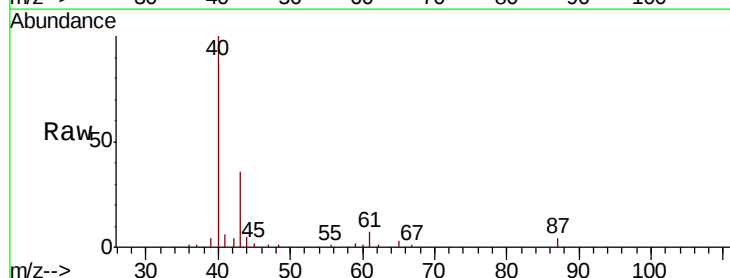
Tgt Ion: 43 Resp: 15447

Ion Ratio Lower Upper

43 100

61 17.3 15.8 23.8

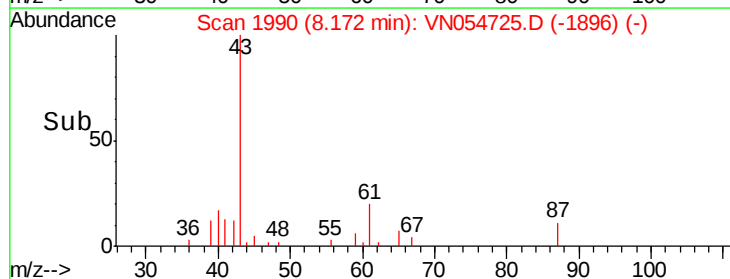
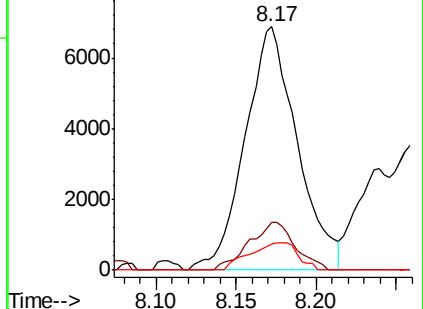
87 10.3 12.0 18.0#

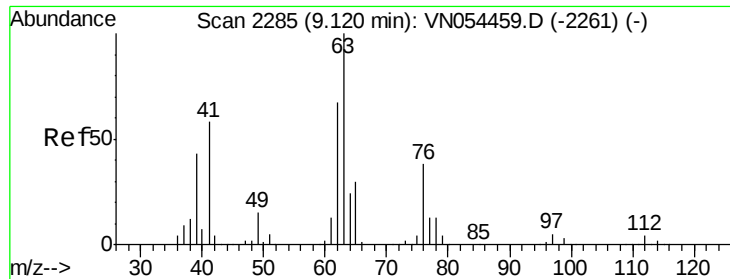


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.227 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

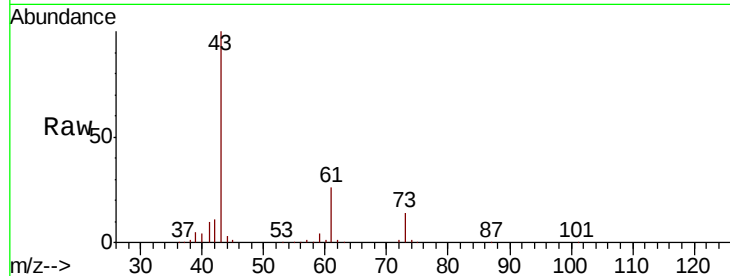
ClientSampleId :

Tot Ion: 63 Resp: 1472

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.27

800

600

400

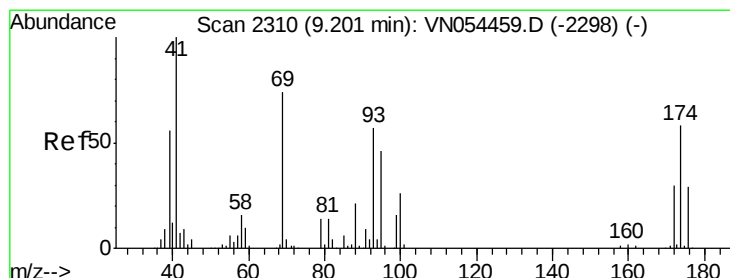
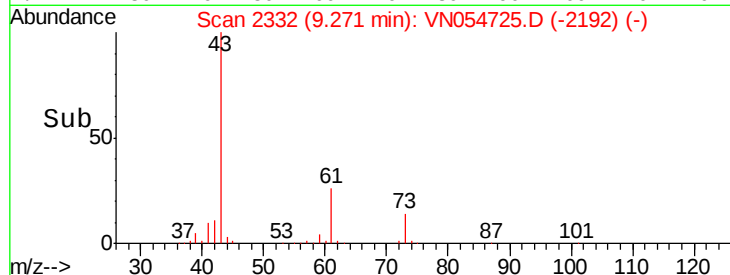
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 1.169 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

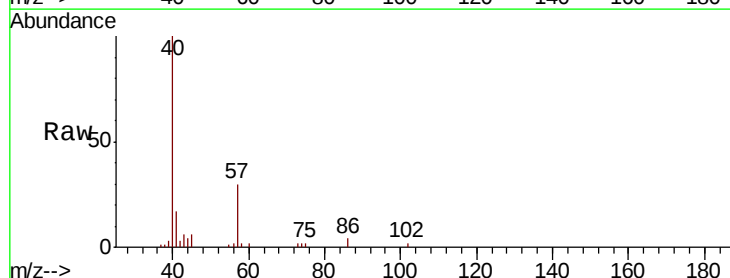
Tgt Ion: 41 Resp: 6428

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

39 0.0 47.5 71.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

60000

40000

20000

0

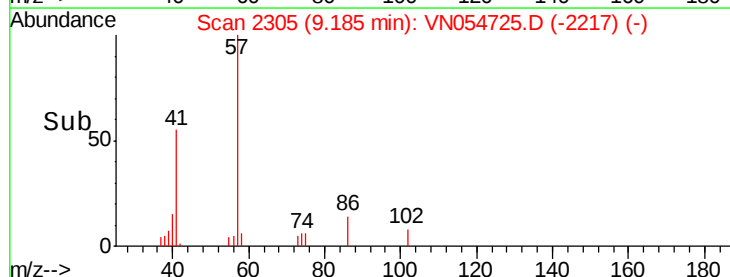
9.10

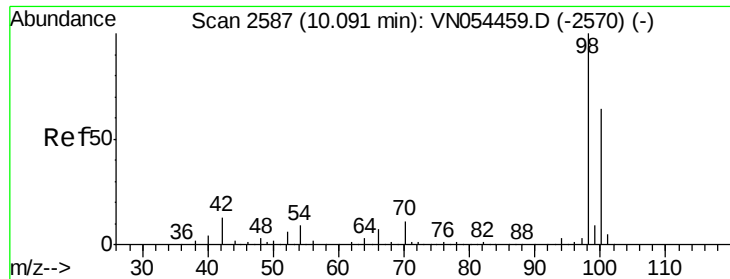
9.15

9.20

9.25

Time-->





#50

Toluene-d8

Concen: 49.024 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

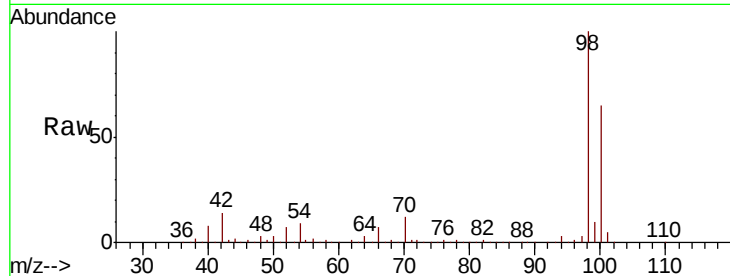
ClientSampled :

Tot Ion: 98 Resp: 1071483

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

600000

500000

400000

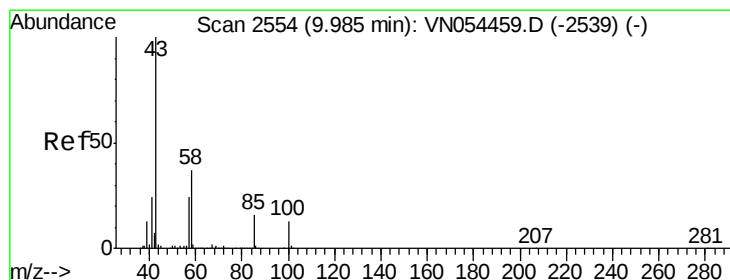
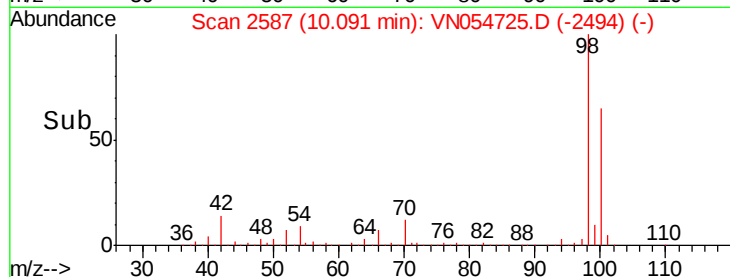
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.303 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054725.D

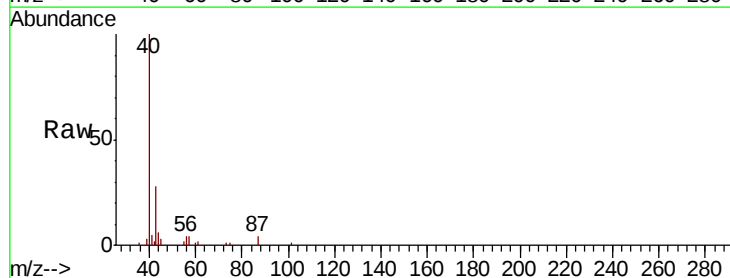
Acq: 27 Mar 2019 16:36

Tgt Ion: 43 Resp: 7316

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)

10.03

6000

5000

4000

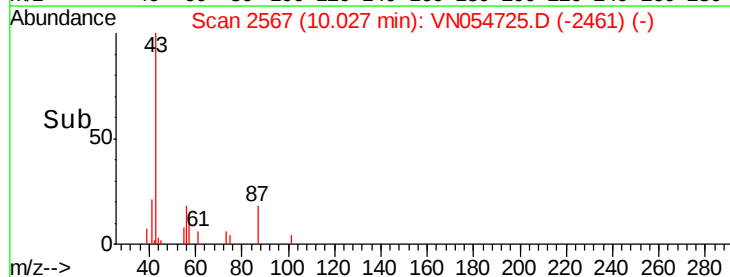
3000

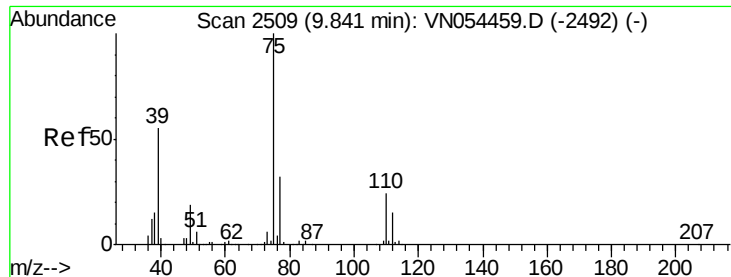
2000

1000

0

Time-->



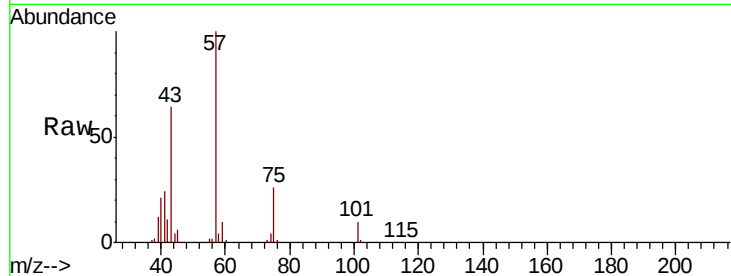


#54

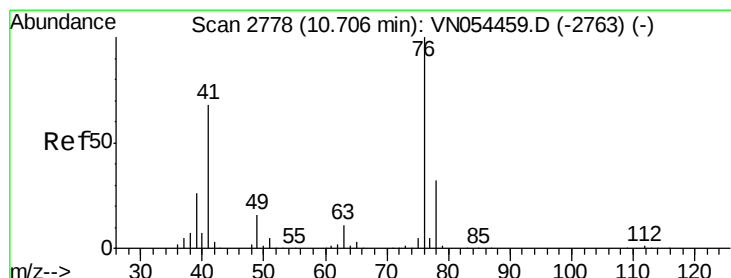
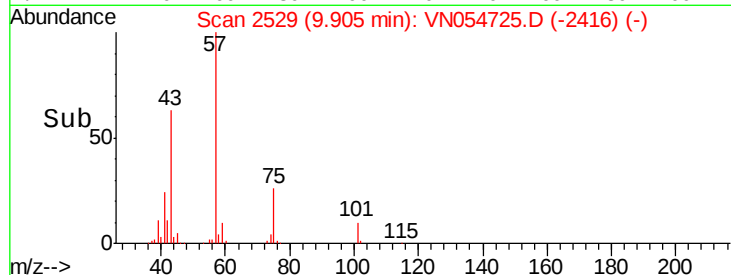
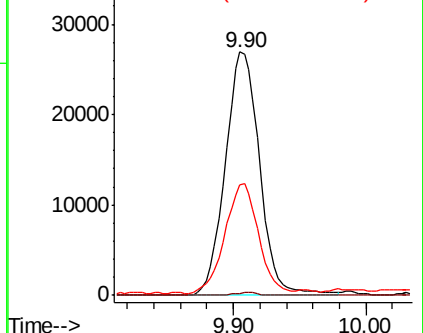
cis-1,3-Dichloropropene
 Concen: 5.256 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054725.D
 Acq: 27 Mar 2019 16:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.4	38.0#
39	44.3	37.2	55.8



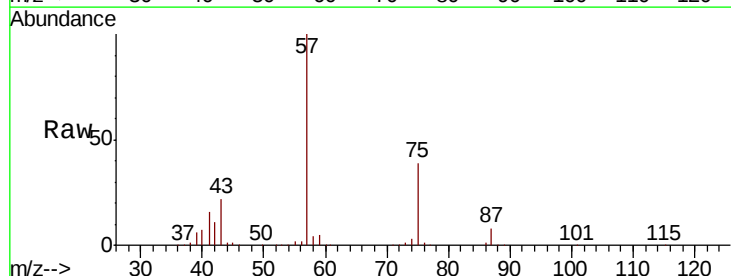
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



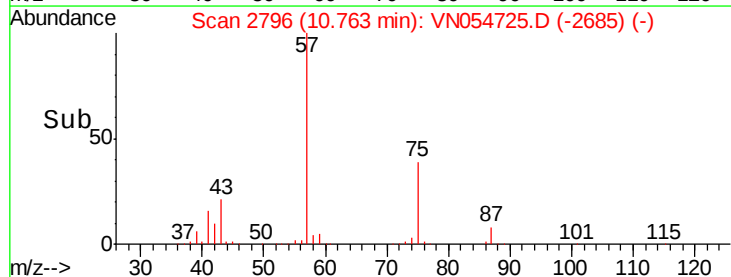
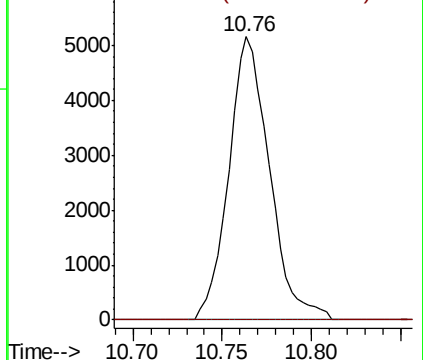
#57

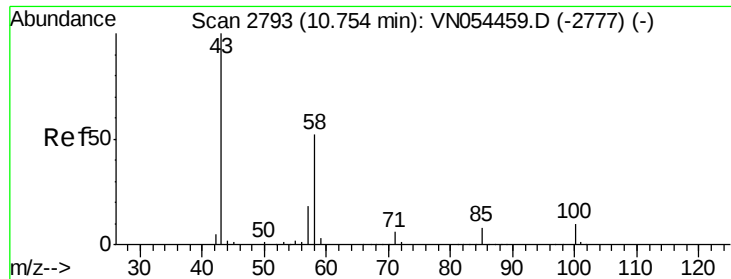
1,3-Dichloropropane
 Concen: 0.882 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054725.D
 Acq: 27 Mar 2019 16:36

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.7	38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

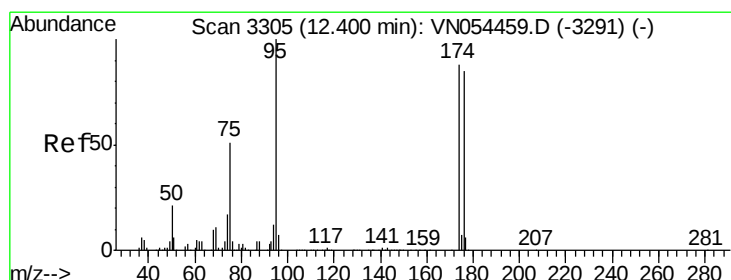
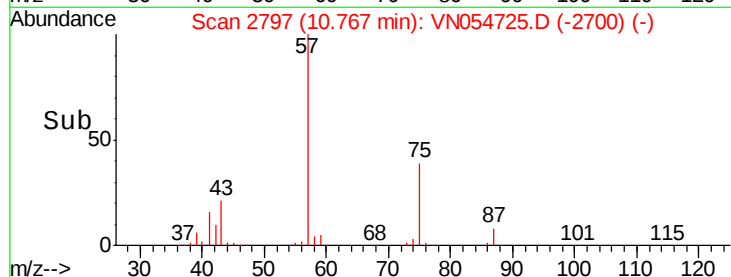
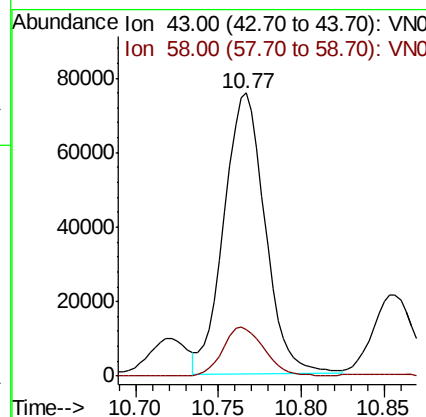
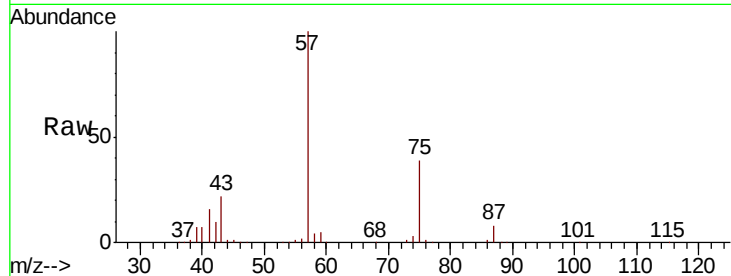




#59
2-Hexanone
Concen: 35.515 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

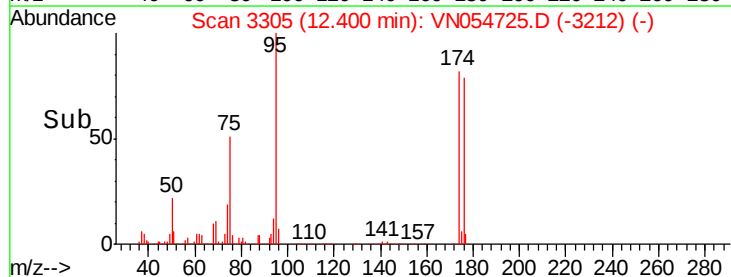
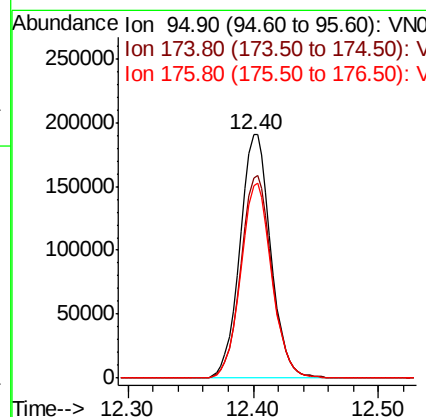
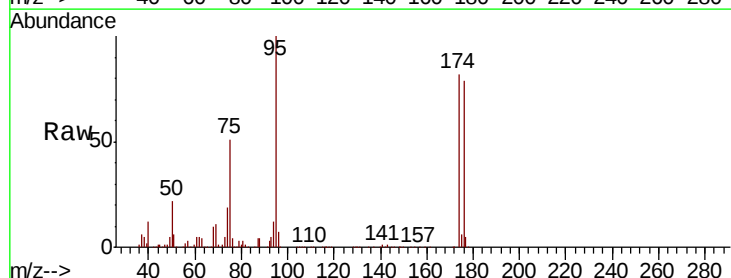
Instrument :
MSVOA_N
ClientSampled :

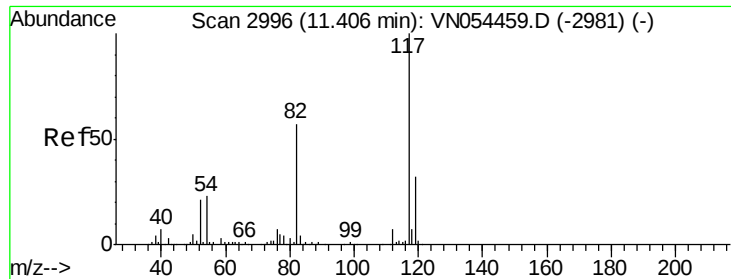
Tot Ion: 43 Resp: 130299
Ion Ratio Lower Upper
43 100
58 17.7 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 43.745 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

Tgt Ion: 95 Resp: 325346
Ion Ratio Lower Upper
95 100
174 83.9 0.0 191.0
176 80.4 0.0 187.4

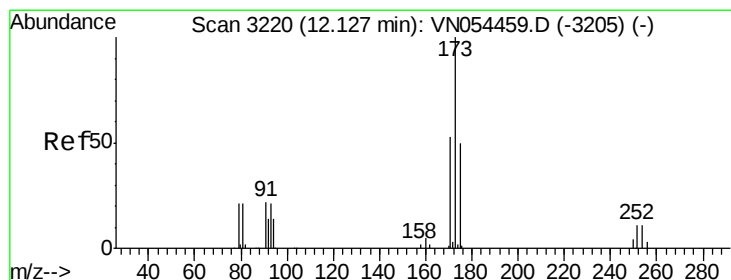
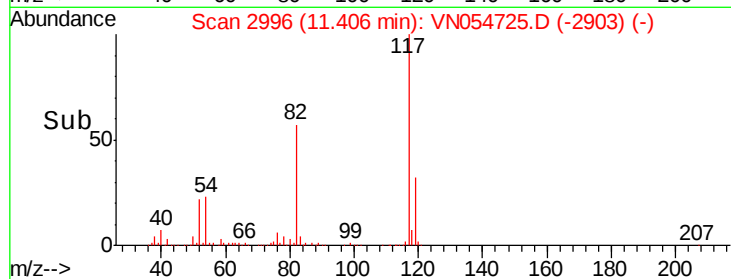
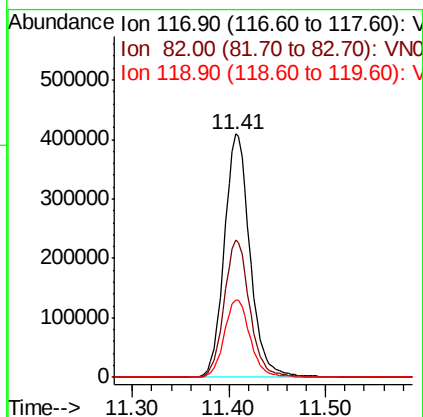
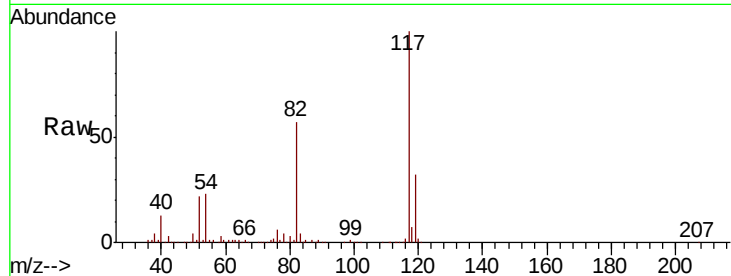




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

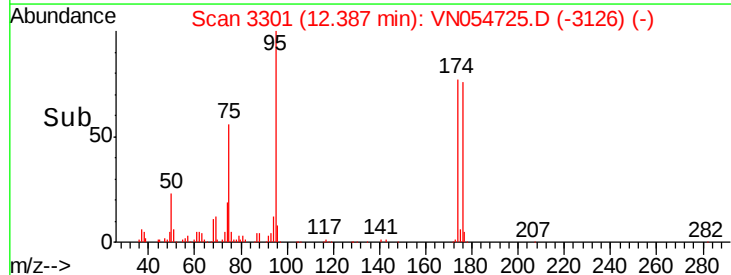
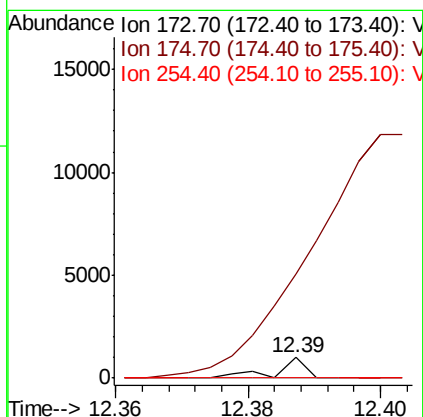
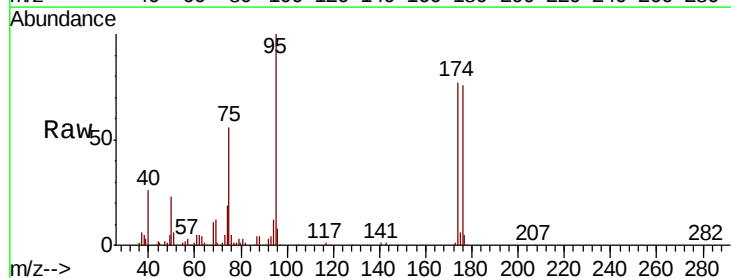
Instrument :
MSVOA_N
ClientSampled :

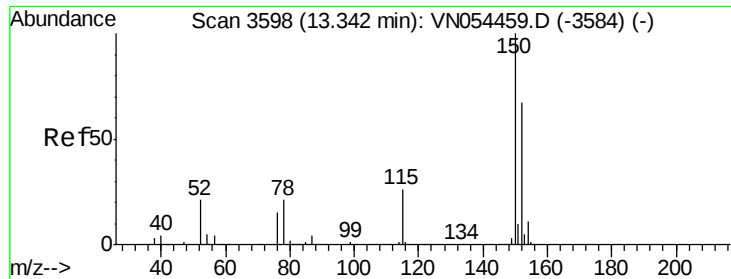
Tot Ion:117 Resp: 75536
Ion Ratio Lower Upper
117 100
82 56.6 40.0 60.0
119 32.0 25.8 38.6



#71
Bromoform
Concen: 2.294 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

Tgt Ion:173 Resp: 293
Ion Ratio Lower Upper
173 100
175 5901.7 24.4 73.2#
254 0.0 0.1 0.1#



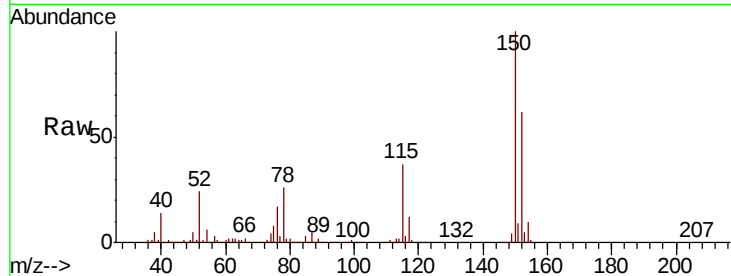


#72

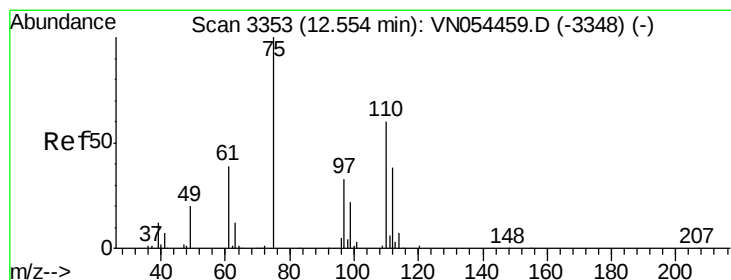
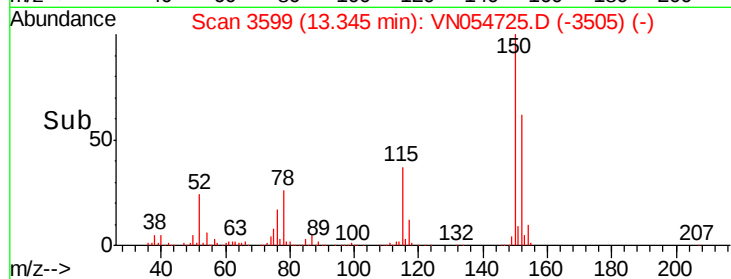
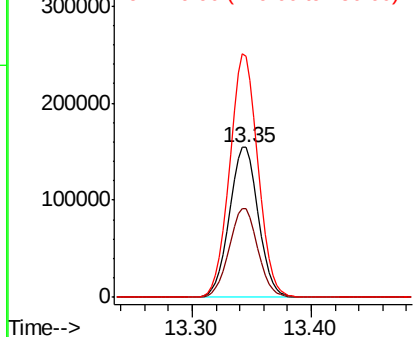
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 260294
Ion Ratio Lower Upper
152 100
115 58.7 27.2 81.6
150 158.2 0.0 349.2



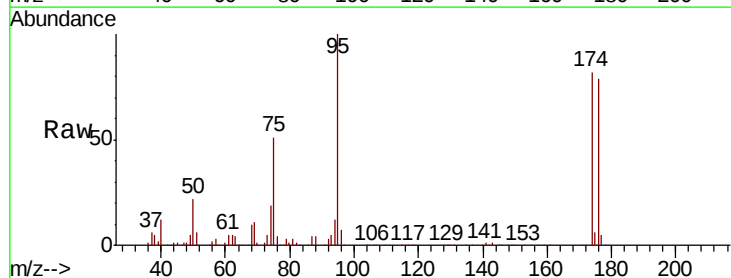
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



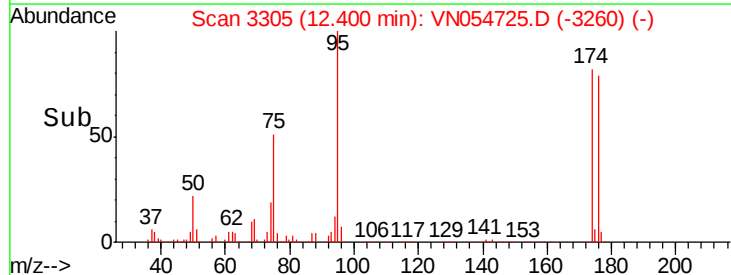
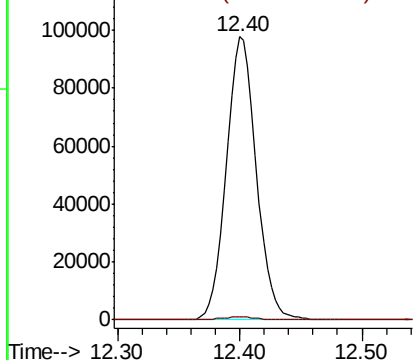
#76

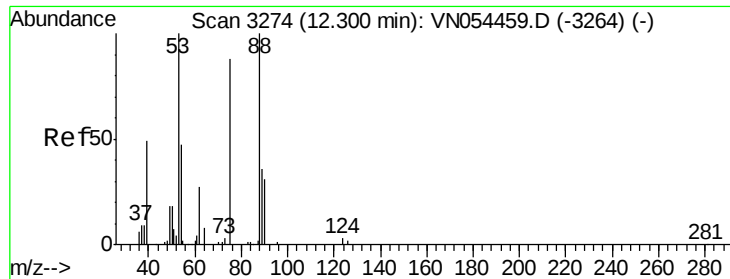
1,2,3-Trichloropropane
Concen: 40.623 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054725.D
Acq: 27 Mar 2019 16:36

Tgt Ion: 75 Resp: 167794
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





#81

trans-1,4-Dichloro-2-butene

Concen: 134.332 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054725.D

Acq: 27 Mar 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

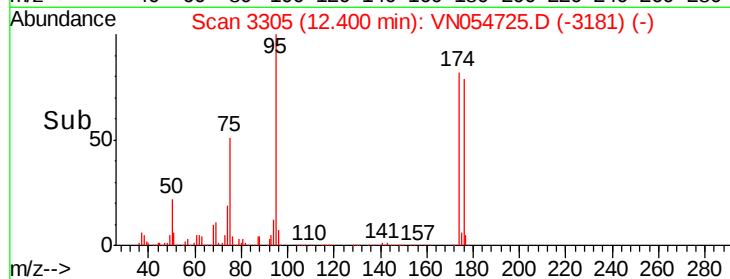
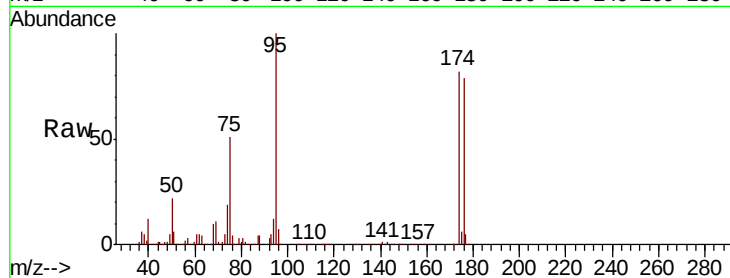
Tot Ion: 75 Resp: 167794

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

