

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058724.D
 Acq On : 12 Oct 2019 00:27
 Operator : JC/SP
 Sample : PB123806TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123806TB

Quant Time: Oct 12 01:12:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	416379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	655029	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236512	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	294959	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
35) Dibromofluoromethane	7.57	113	210873	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
50) Toluene-d8	10.08	98	845101	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	12.41	95	275812	45.04	ug/l	0.00
Spiked Amount			Recovery	=	90.08%	

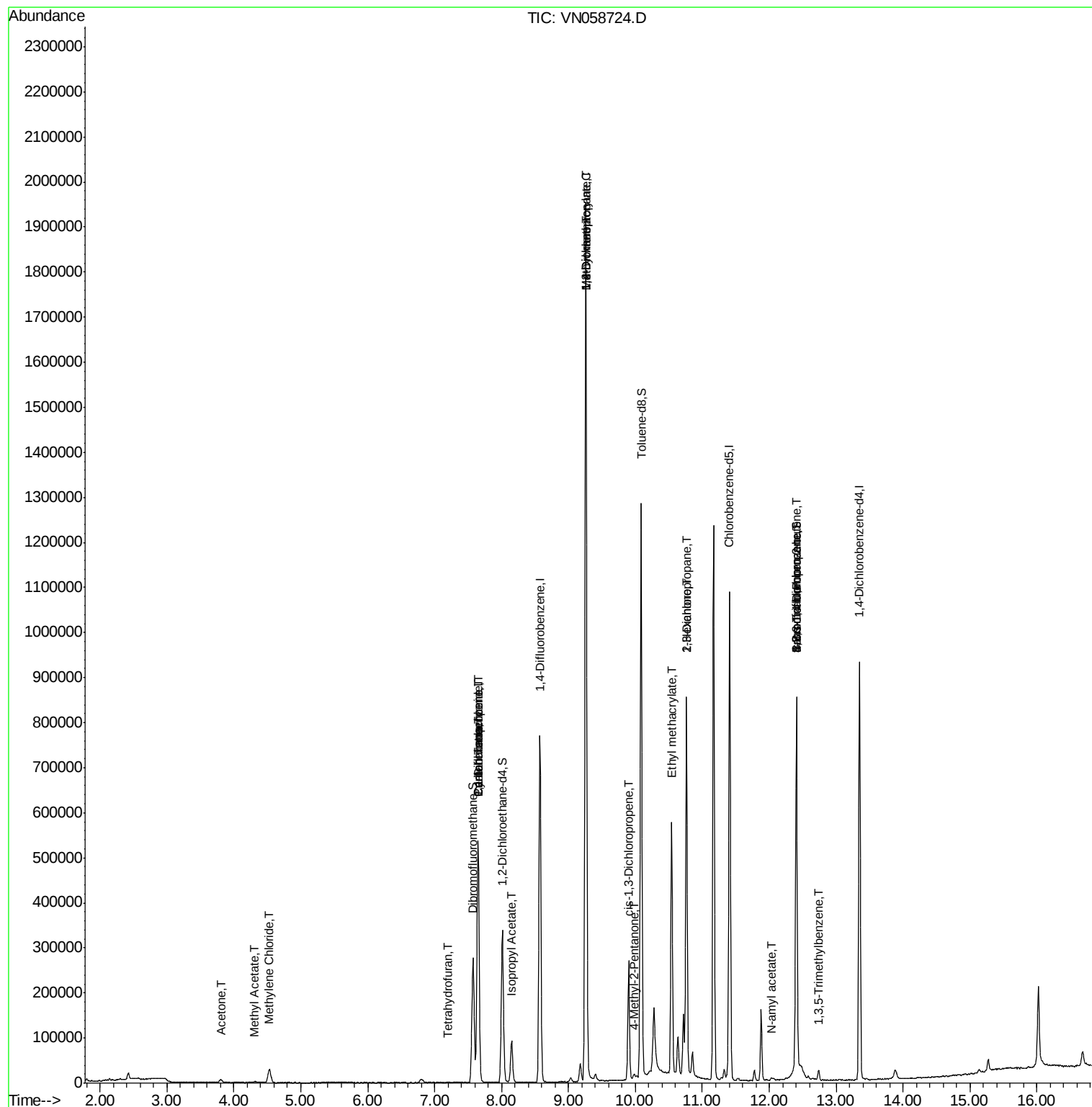
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	11280	4.674	ug/l	97
18) Methyl Acetate	4.31	43	4260	0.696	ug/l #	77
20) Methylene Chloride	4.53	84	22615	4.484	ug/l	93
29) Tetrahydrofuran	7.21	42	641	0.284	ug/l #	35
31) Cyclohexane	7.64	56	10106	1.182	ug/l #	15
36) 1,1-Dichloropropene	7.65	75	35213	5.317	ug/l #	51
38) Carbon Tetrachloride	7.65	117	41346	6.406	ug/l #	16
43) Isopropyl Acetate	8.15	43	108456	9.505	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	2361	0.464	ug/l #	45
48) Methyl methacrylate	9.26	41	190904	36.910	ug/l #	46
49) 1,4-Dioxane	9.25	88	252	3.149	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7166	1.118	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	45383	5.669	ug/l #	65
56) Ethyl methacrylate	10.54	69	2146	0.309	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8245	1.016	ug/l #	42
59) 2-Hexanone	10.76	43	126174	25.479	ug/l #	53
71) Bromoform	12.40	173	1327	0.406	ug/l #	1
74) N-amyl acetate	12.03	43	5896	0.766	ug/l #	46
76) 1,2,3-Trichloropropane	12.41	75	149066	28.730	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	11129	0.761	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.41	75	149066	76.959	ug/l #	11

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

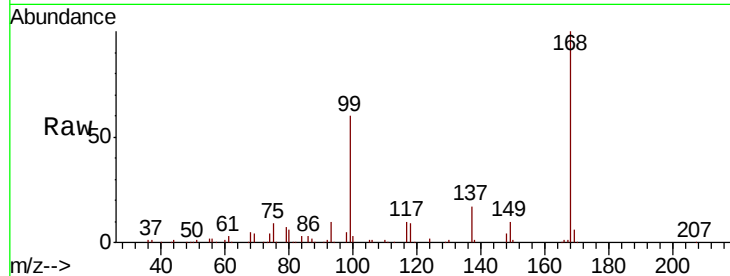
PB123806TB

Tot Ion:168 Resp: 416379

Ion Ratio Lower Upper

168 100

99 59.6 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN058724.D (-1734) (-)

Ion 98.90 (98.60 to 99.60): VN058724.D (-1734) (-)

7.65

200000

150000

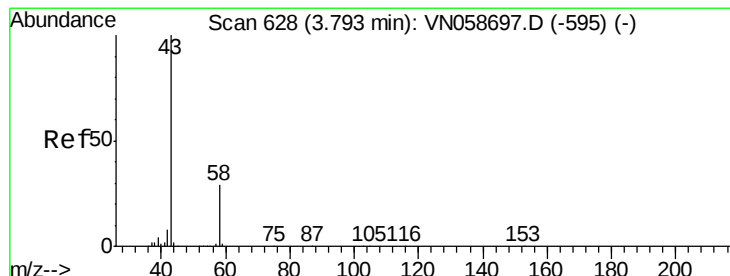
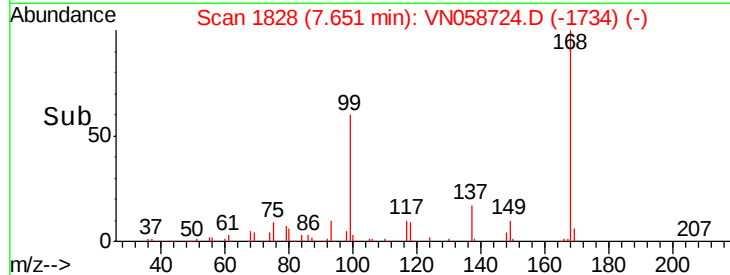
100000

50000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 4.674 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058724.D

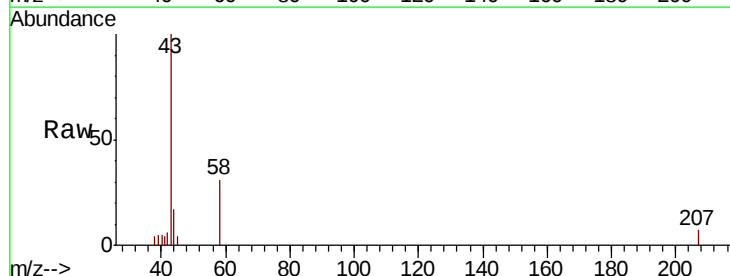
Acq: 12 Oct 2019 00:27

Tgt Ion: 43 Resp: 11280

Ion Ratio Lower Upper

43 100

58 30.9 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058724.D (-535) (-)

Ion 58.00 (57.70 to 58.70): VN058724.D (-535) (-)

3.80

5000

4000

3000

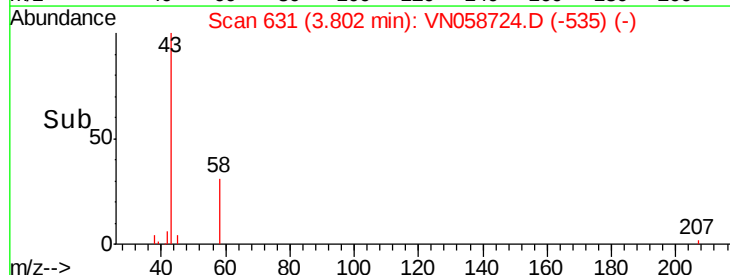
2000

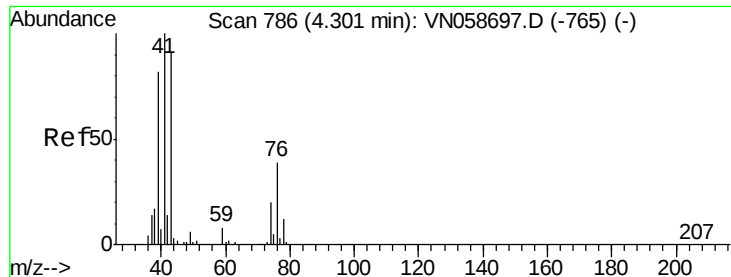
1000

0

3.75 3.80 3.85

Time-->

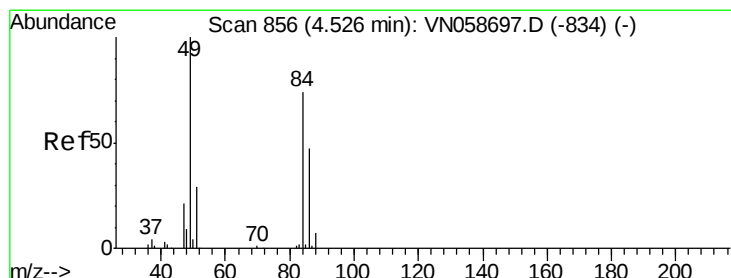
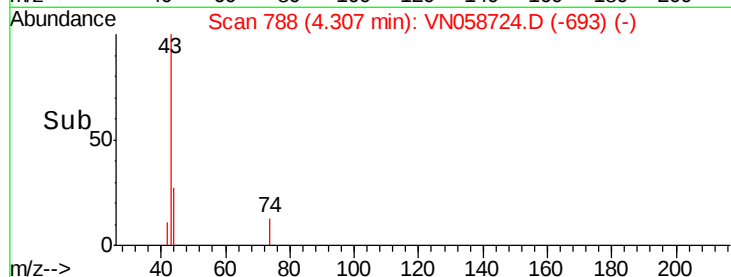
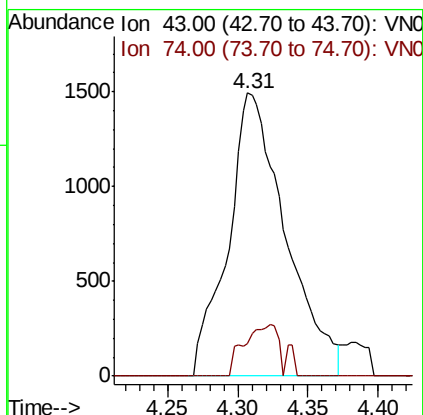
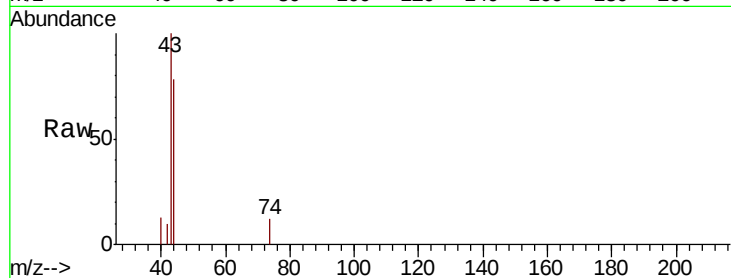




#18
Methyl Acetate
Concen: 0.696 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058724.D
Acq: 12 Oct 2019 00:27

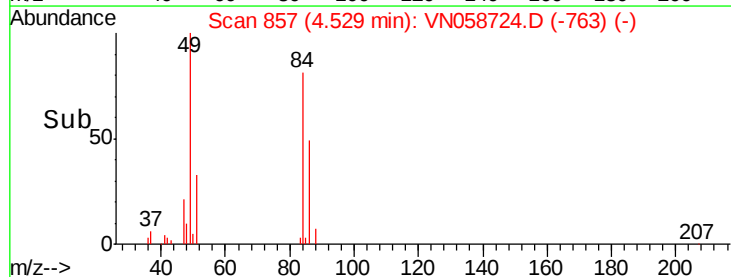
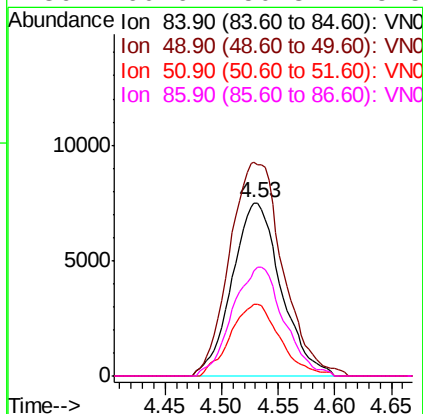
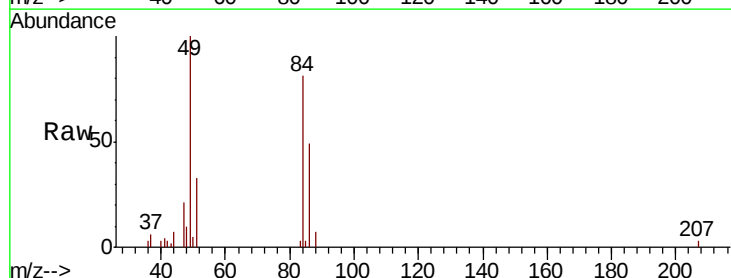
Instrument :
MSVOA_N
ClientSampled :
PB123806TB

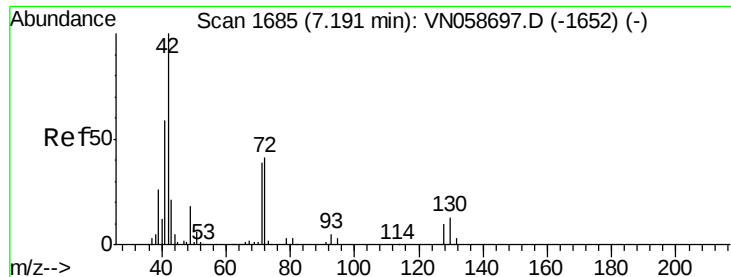
Tot Ion: 43 Resp: 4260
Ion Ratio Lower Upper
43 100
74 10.6 17.2 25.8#



#20
Methylene Chloride
Concen: 4.484 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058724.D
Acq: 12 Oct 2019 00:27

Tgt Ion: 84 Resp: 22615
Ion Ratio Lower Upper
84 100
49 123.4 107.6 161.4
51 41.3 31.4 47.0
86 60.6 50.3 75.5





#29

Tetrahydrofuran

Concen: 0.284 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

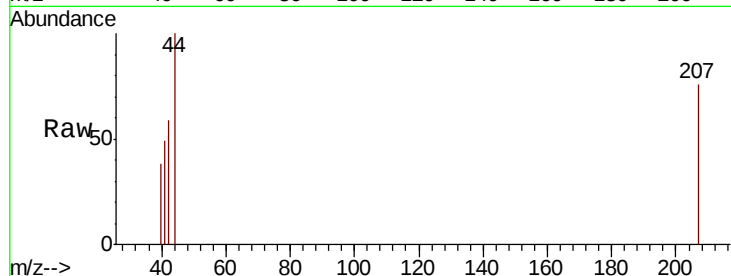
Tot Ion: 42 Resp: 641

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

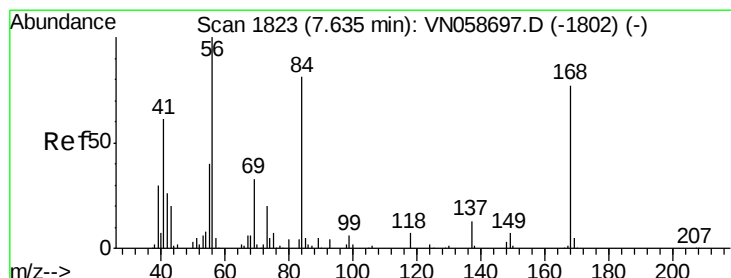
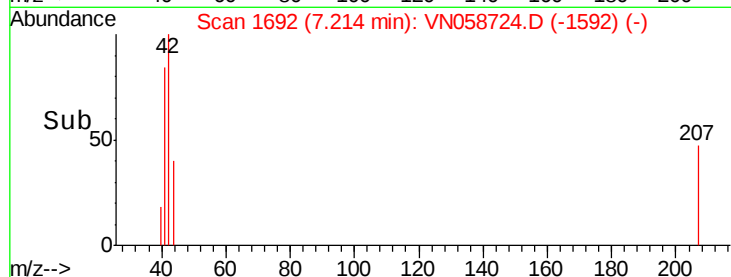
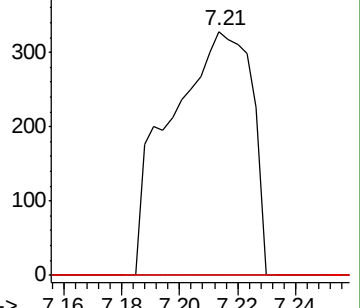
71 0.0 31.1 46.7#



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: 1.182 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

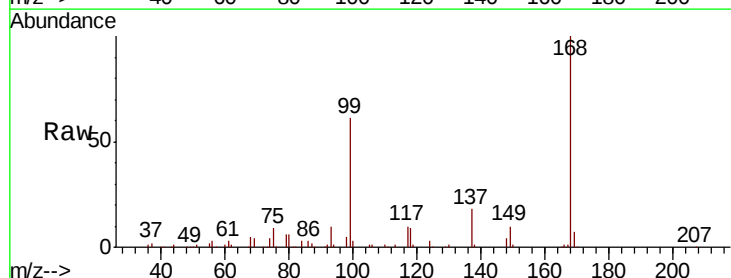
Tgt Ion: 56 Resp: 10106

Ion Ratio Lower Upper

56 100

69 166.7 26.2 39.4#

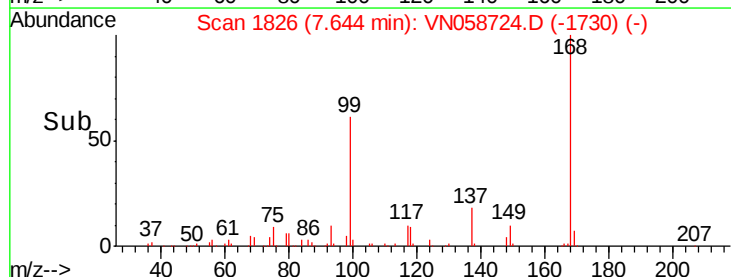
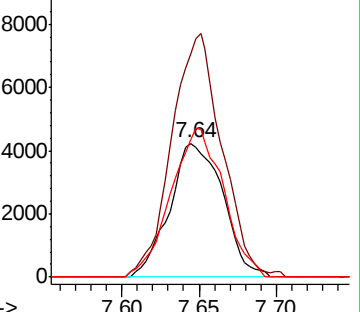
84 102.1 64.9 97.3#

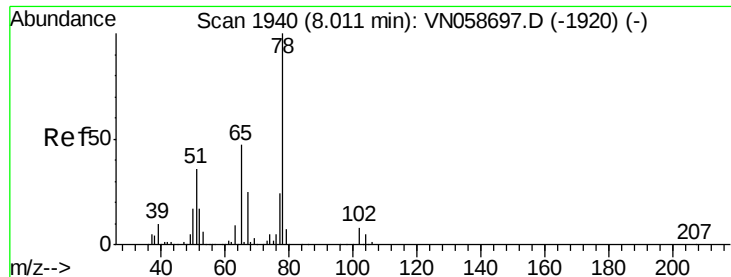


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

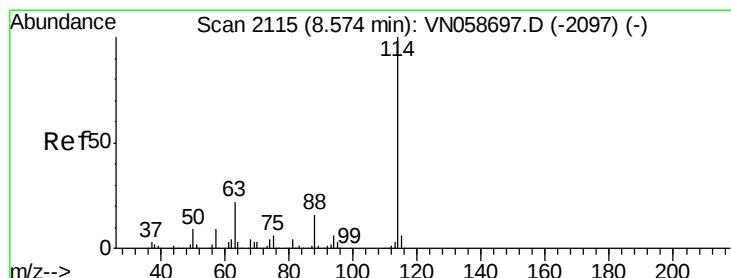
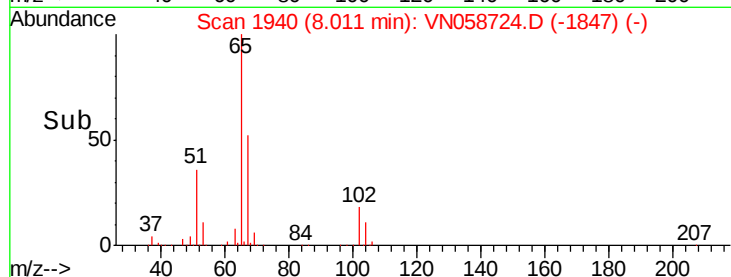
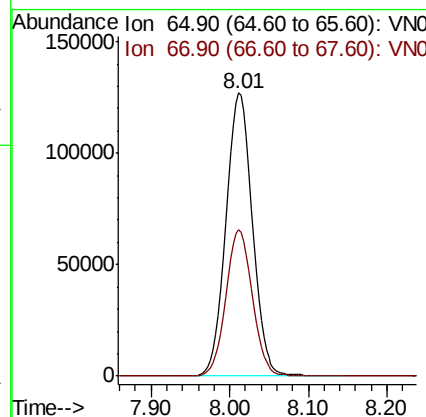
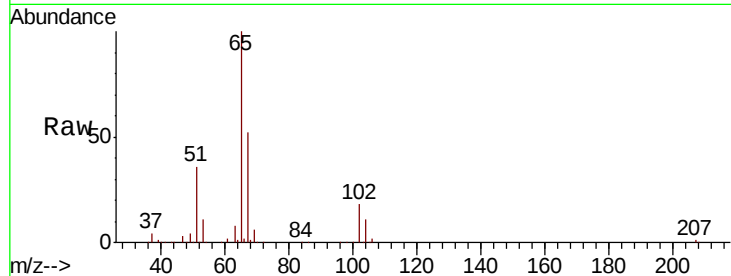




#33
 1,2-Dichloroethane-d4
 Concen: 50.600 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058724.D
 Acq: 12 Oct 2019 00:27

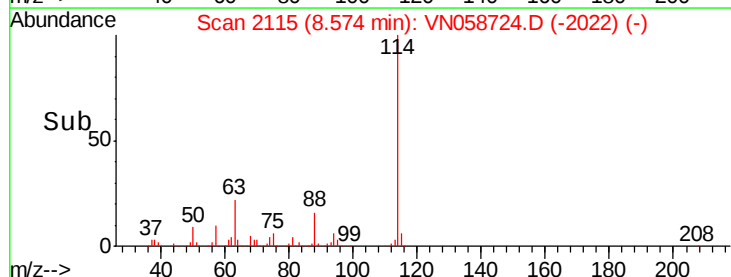
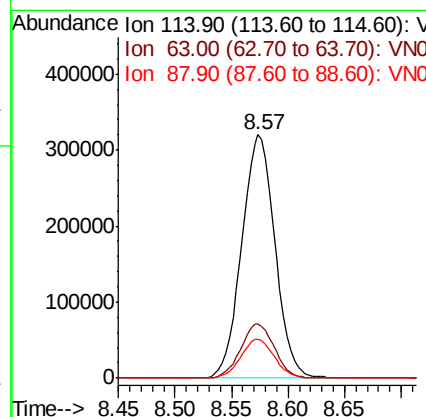
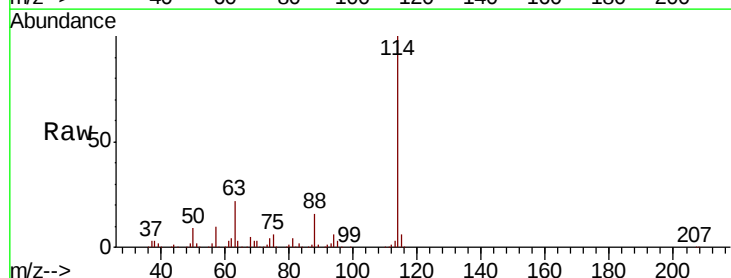
Instrument :
 MSVOA_N
 ClientSampled :
 PB123806TB

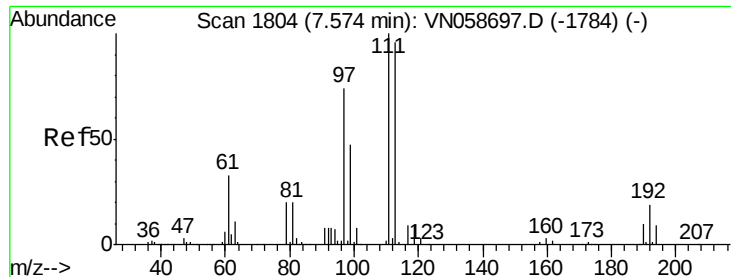
Tot Ion: 65 Resp: 294959
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058724.D
 Acq: 12 Oct 2019 00:27

Tgt Ion: 114 Resp: 655029
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.8
 88 16.1 0.0 32.0

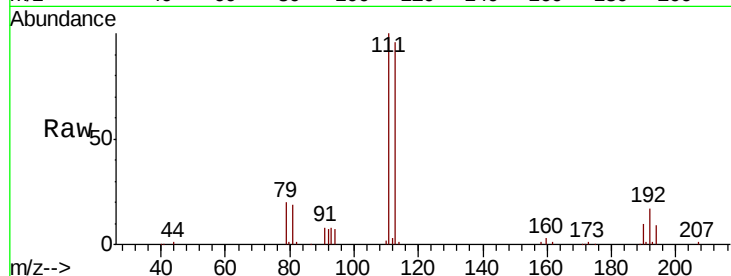




#35
Dibromofluoromethane
Concen: 52.119 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058724.D
Acq: 12 Oct 2019 00:27

Instrument :
MSVOA_N
ClientSampleId :
PB123806TB

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.3	123.5
192	18.7	15.0	22.6

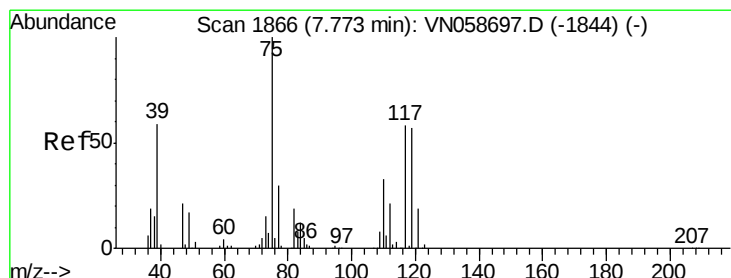
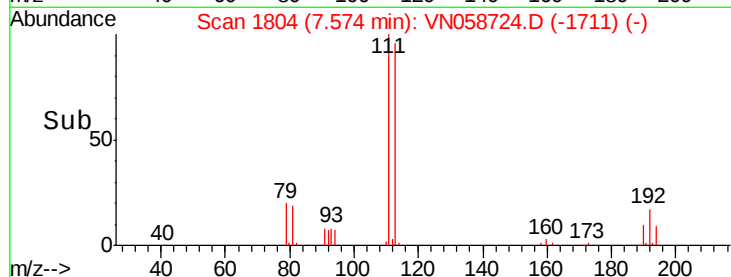
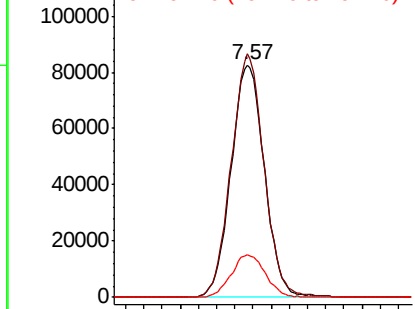


Abundance

Ion 112.80 (112.50 to 113.50): V

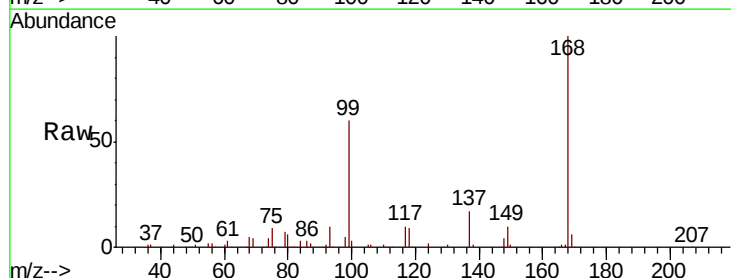
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 5.317 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.12 min
Lab File: VN058724.D
Acq: 12 Oct 2019 00:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.6	49.8#
77	0.0	24.6	37.0#

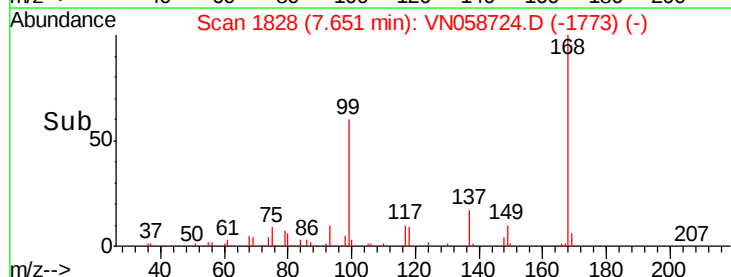
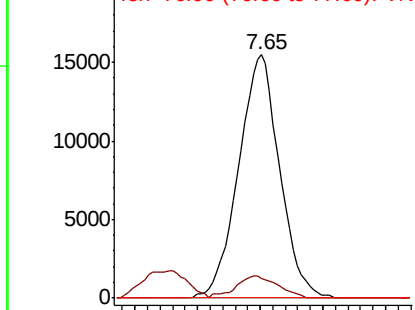


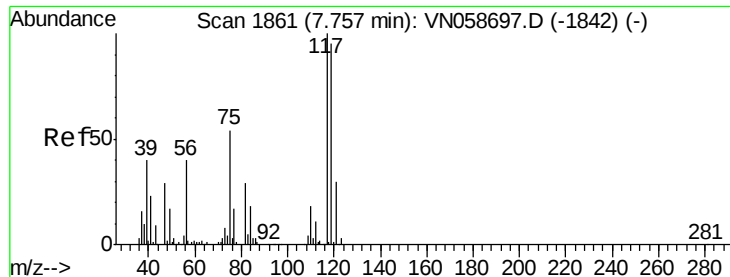
Abundance

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





#38

Carbon Tetrachloride

Concen: 6.406 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

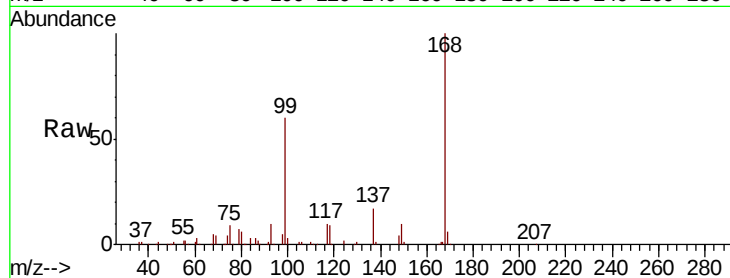
Tot Ion:117 Resp: 41346

Ion Ratio Lower Upper

117 100

119 4.4 75.7 113.5#

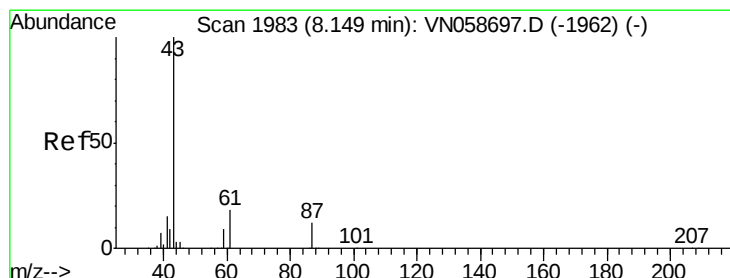
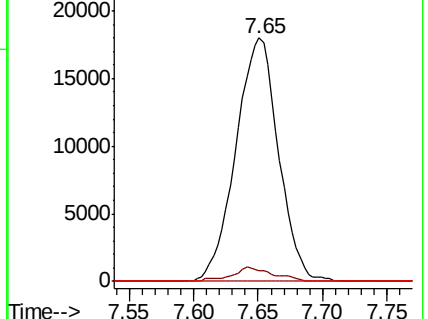
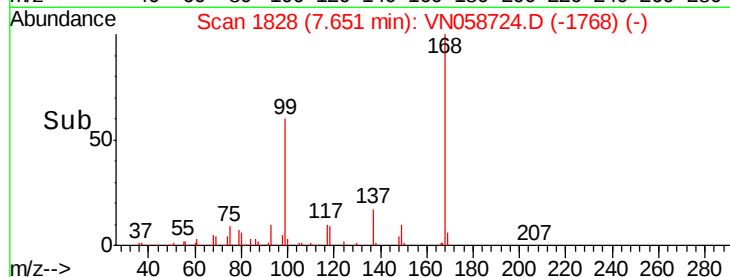
121 0.0 23.9 35.9#



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: 9.505 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

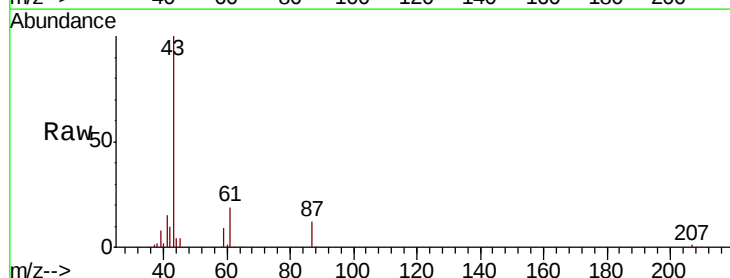
Tgt Ion: 43 Resp: 108456

Ion Ratio Lower Upper

43 100

61 18.7 20.3 30.5#

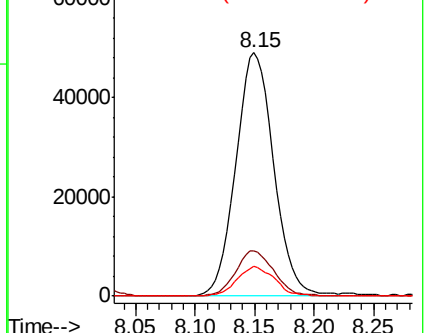
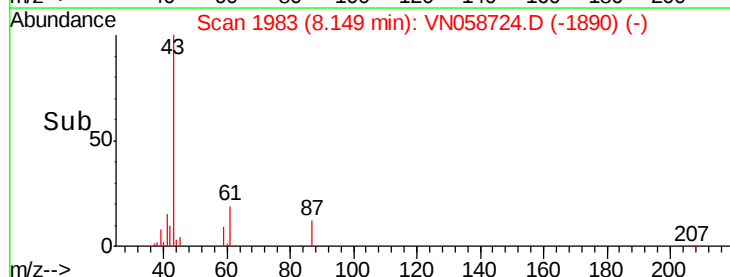
87 12.2 9.8 14.6

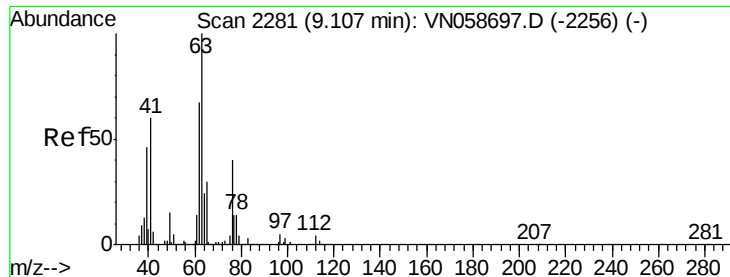


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.464 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

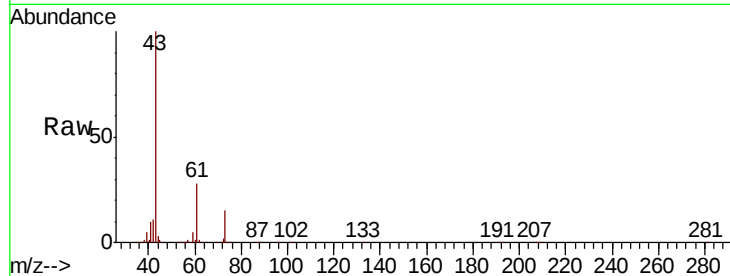
PB123806TB

Tot Ion: 63 Resp: 2361

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.26

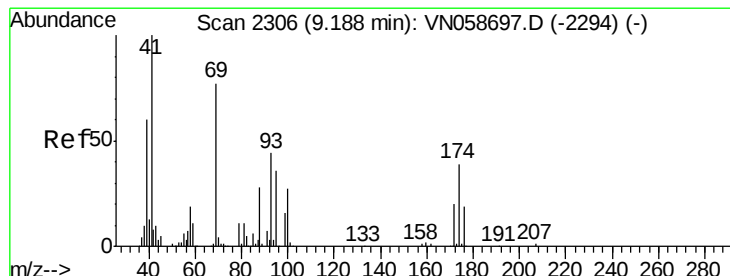
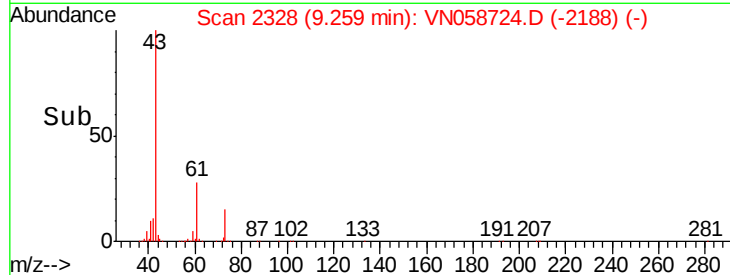
1500

1000

500

0

Time--> 9.20 9.25 9.30



#48

Methyl methacrylate

Concen: 36.910 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

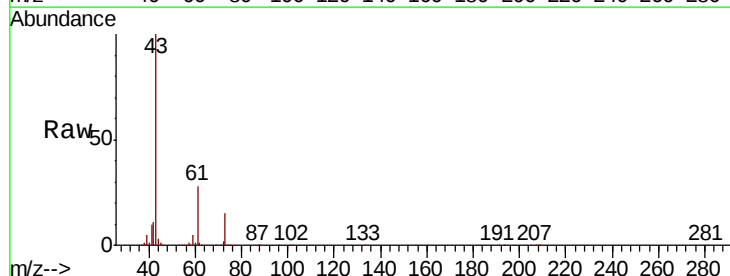
Tgt Ion: 41 Resp: 190904

Ion Ratio Lower Upper

41 100

69 0.2 63.4 95.2#

39 55.2 48.9 73.3



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

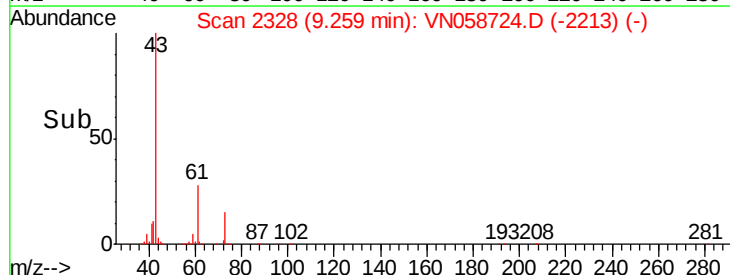
9.26

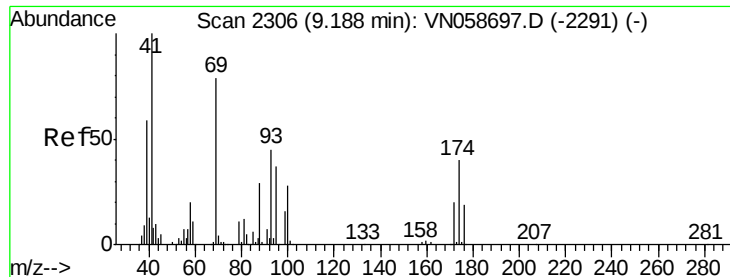
100000

50000

0

Time--> 9.20 9.25 9.30 9.35





#49

1,4-Dioxane

Concen: 3.149 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.06 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

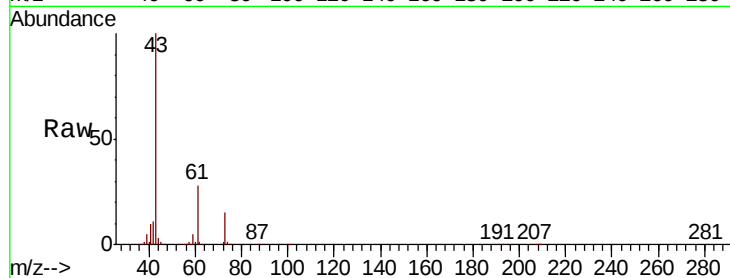
Tot Ion: 88 Resp: 252

Ion Ratio Lower Upper

88 100

43 768975.4 28.6 43.0#

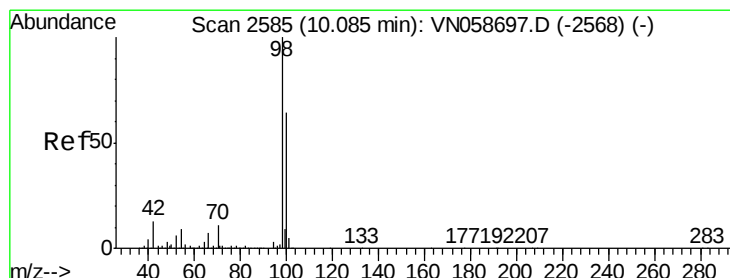
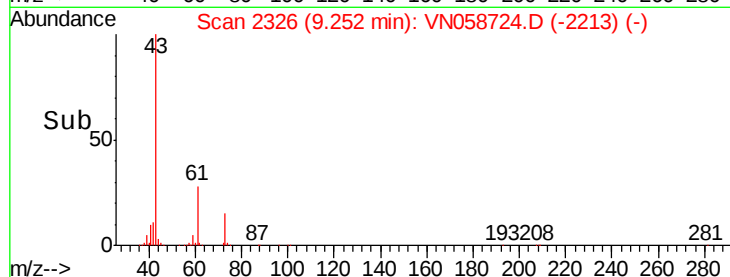
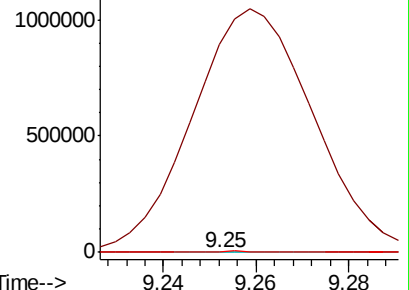
58 3577.4 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.233 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058724.D

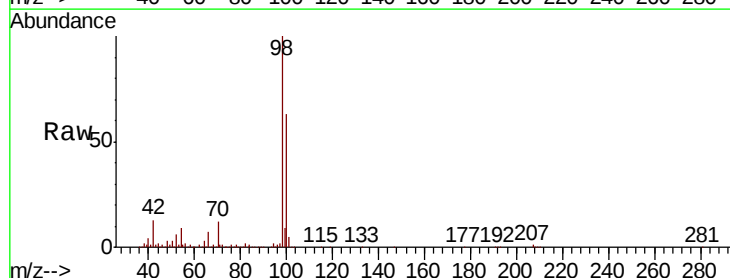
Acq: 12 Oct 2019 00:27

Tgt Ion: 98 Resp: 845101

Ion Ratio Lower Upper

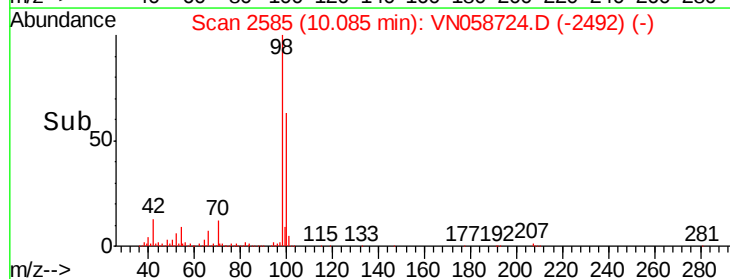
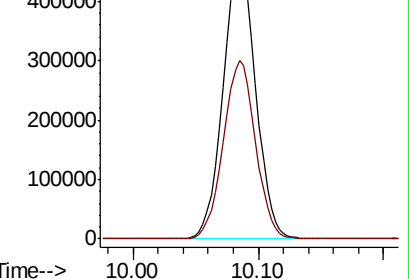
98 100

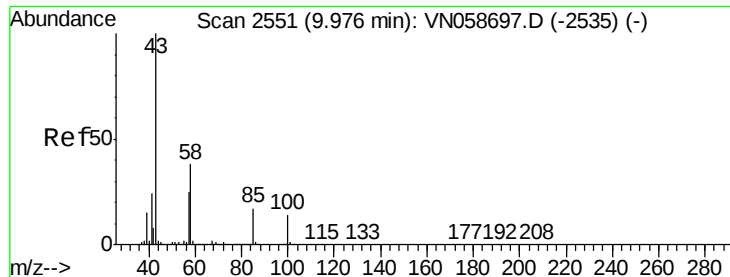
100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.118 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

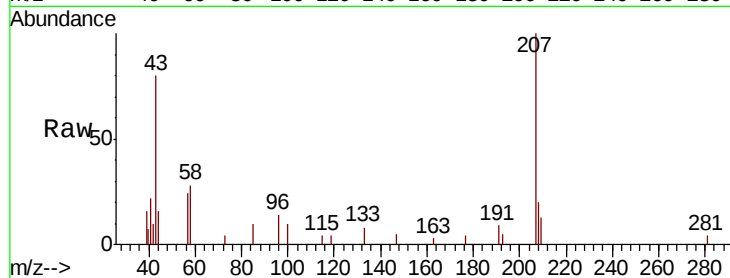
PB123806TB

Tot Ion: 43 Resp: 7166

Ion Ratio Lower Upper

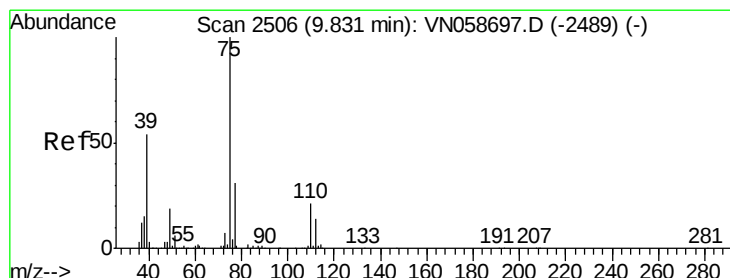
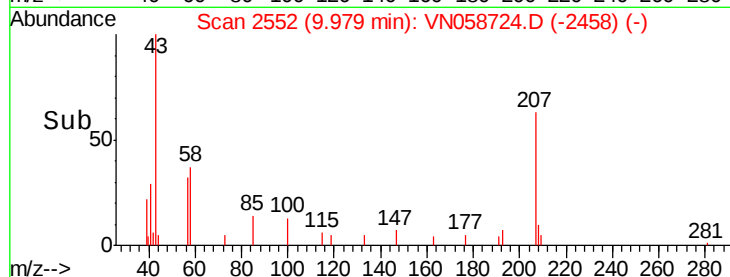
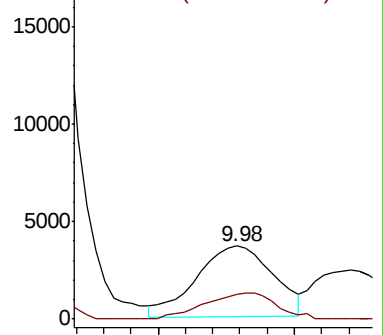
43 100

58 34.4 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.669 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

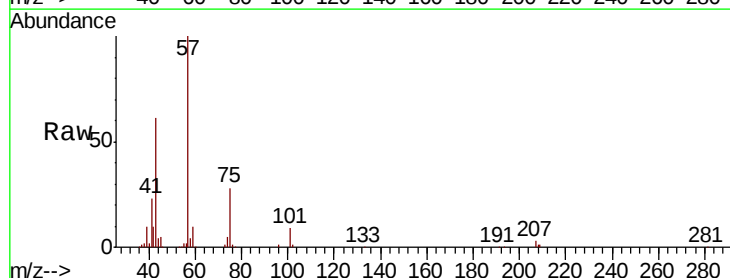
Tgt Ion: 75 Resp: 45383

Ion Ratio Lower Upper

75 100

77 0.7 24.4 36.6#

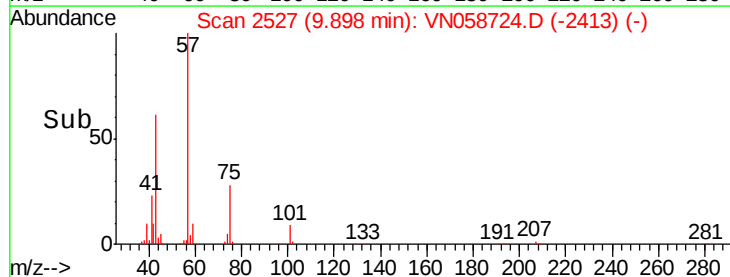
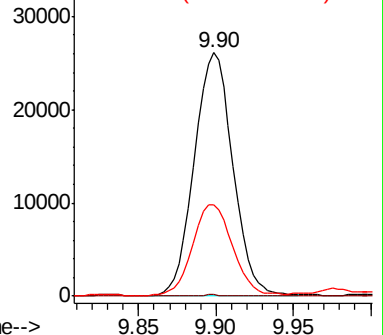
39 37.3 43.1 64.7#

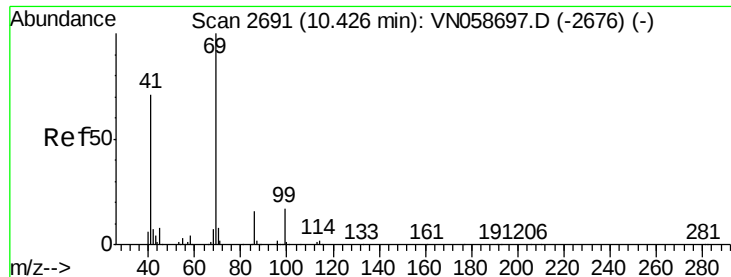


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.309 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

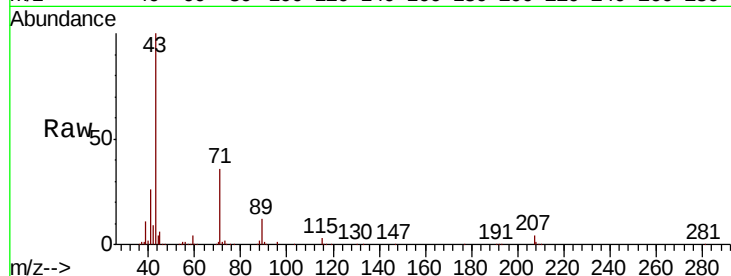
Tot Ion: 69 Resp: 2146

Ion Ratio Lower Upper

69 100

41 5034.5 56.8 85.2#

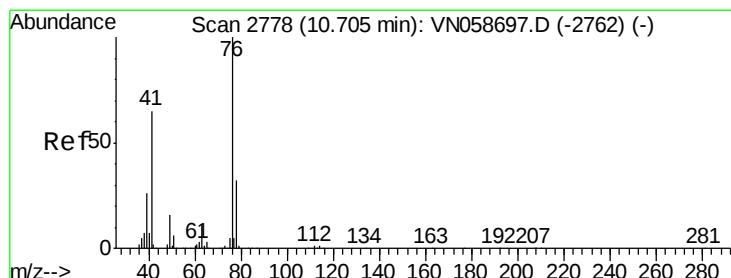
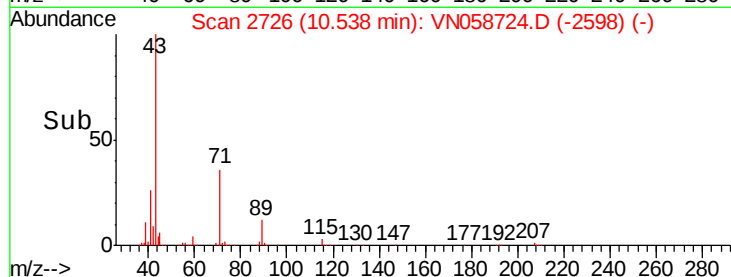
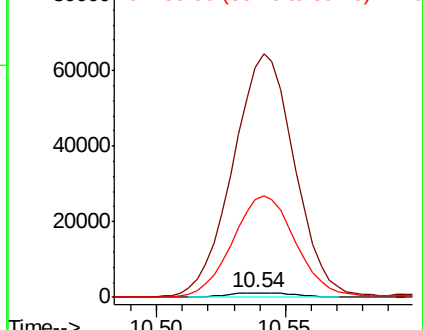
39 2151.9 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.016 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058724.D

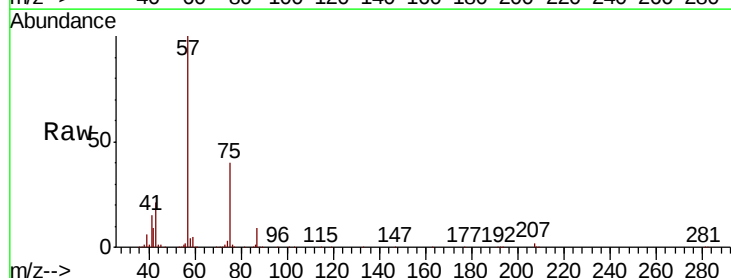
Acq: 12 Oct 2019 00:27

Tgt Ion: 76 Resp: 8245

Ion Ratio Lower Upper

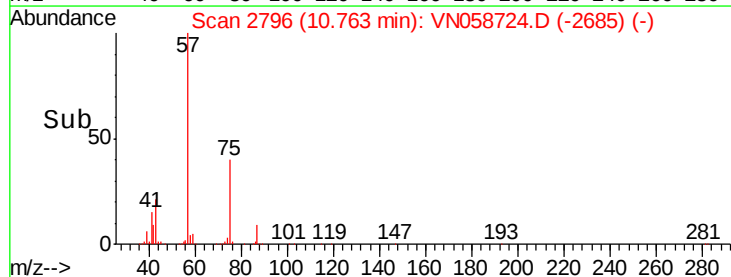
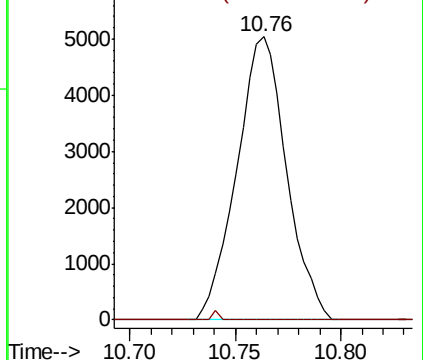
76 100

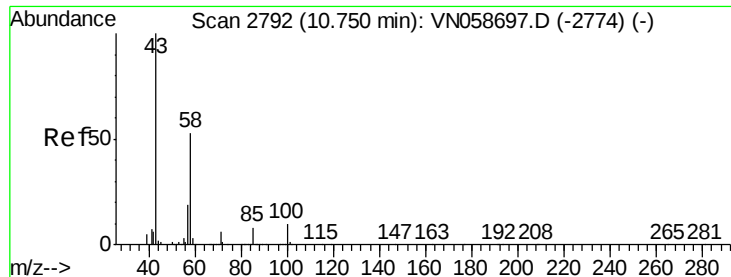
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 25.479 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

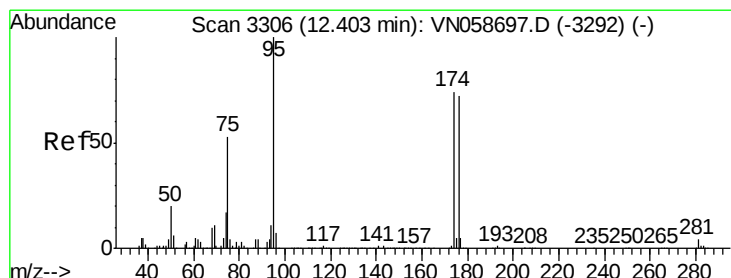
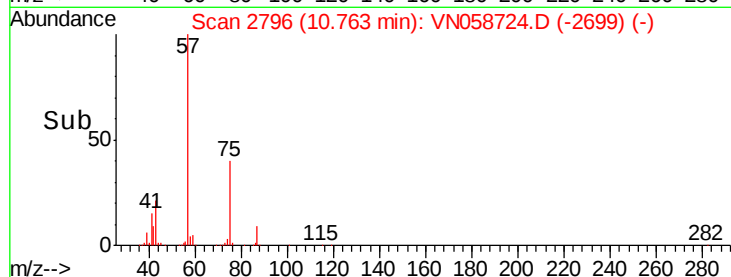
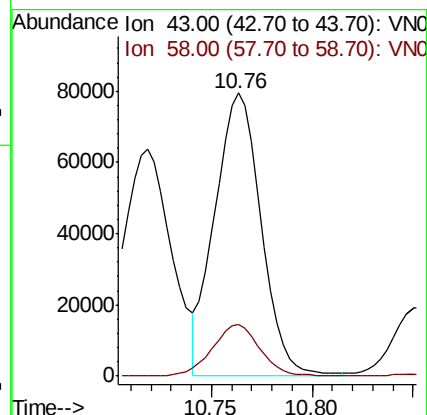
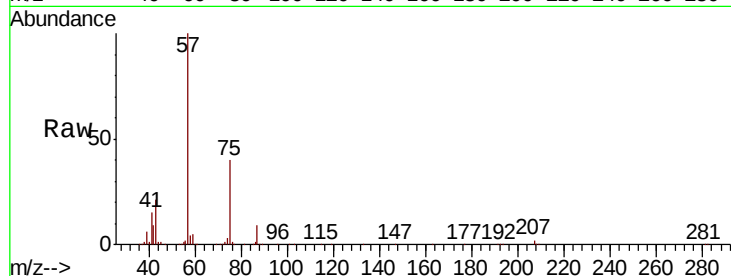
PB123806TB

Tot Ion: 43 Resp: 126174

Ion Ratio Lower Upper

43 100

58 18.9 26.1 78.3#



#62

4-Bromofluorobenzene

Concen: 45.036 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

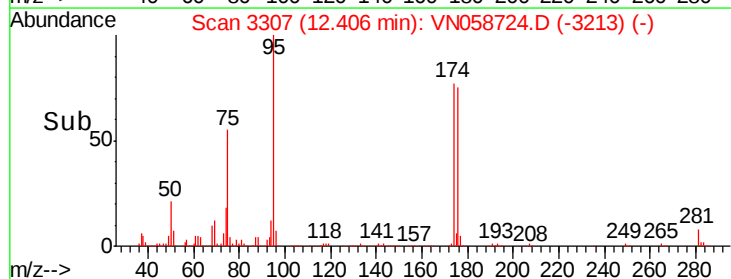
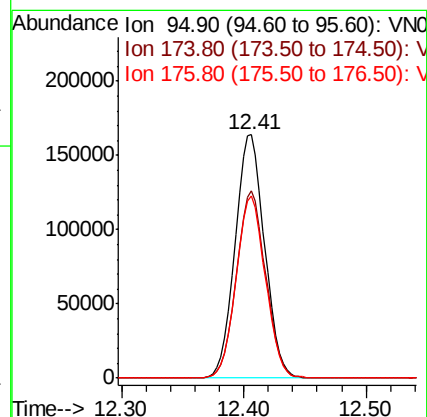
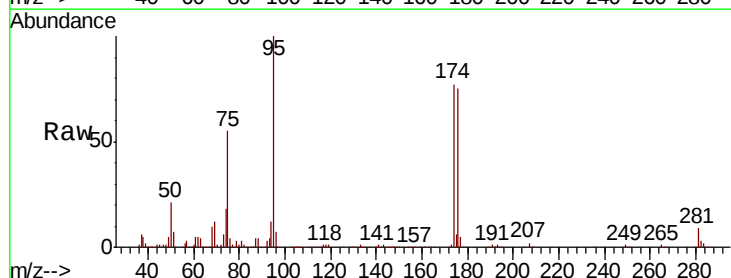
Tgt Ion: 95 Resp: 275812

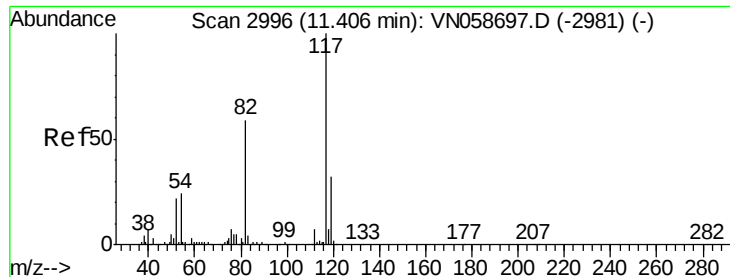
Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.4

176 74.2 0.0 146.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

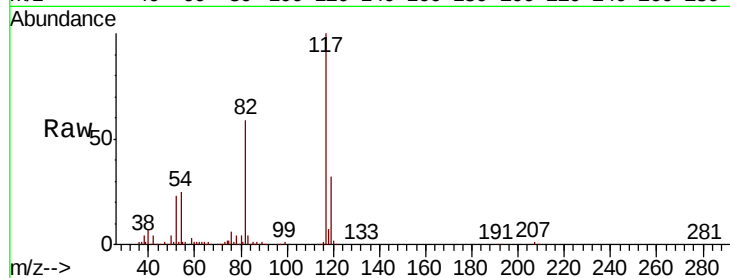
Tot Ion:117 Resp: 593727

Ion Ratio Lower Upper

117 100

82 59.3 47.0 70.4

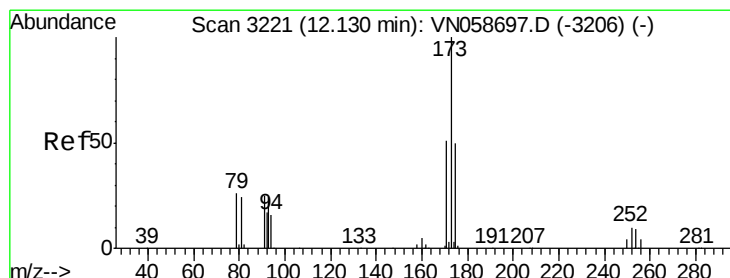
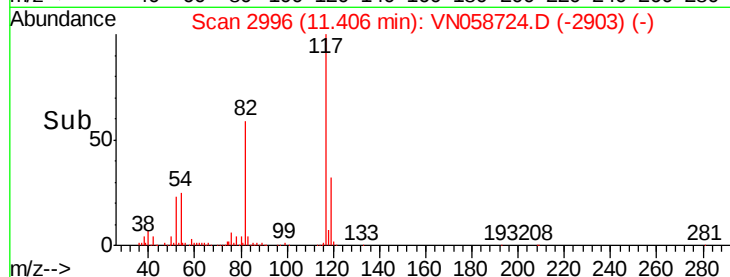
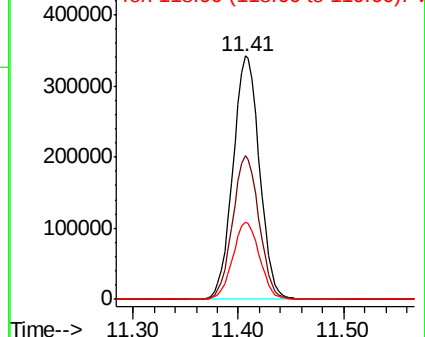
119 31.8 25.4 38.2



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: 0.406 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

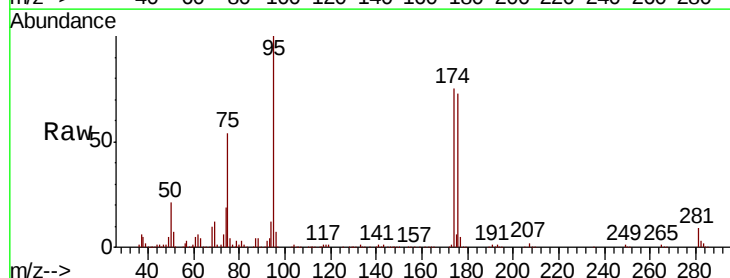
Tgt Ion:173 Resp: 1327

Ion Ratio Lower Upper

173 100

175 1024.7 24.6 73.8#

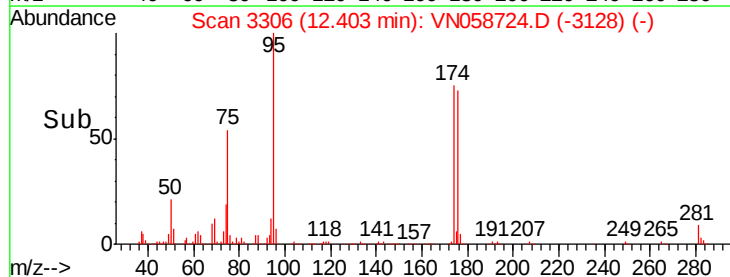
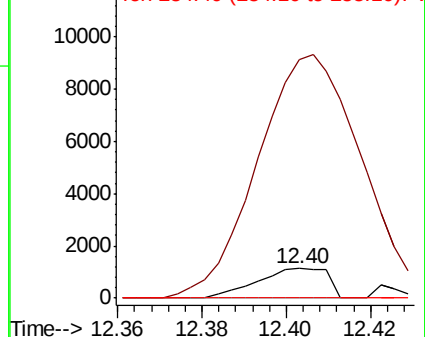
254 0.0 0.1 0.1#

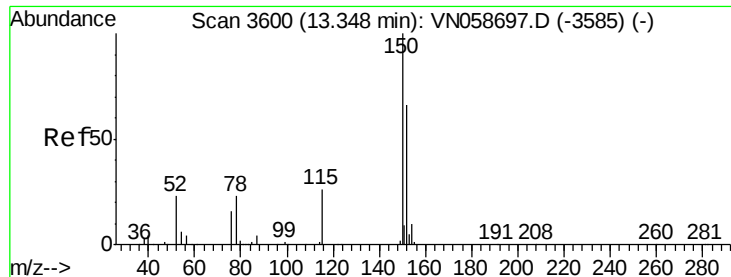


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. -0.00 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

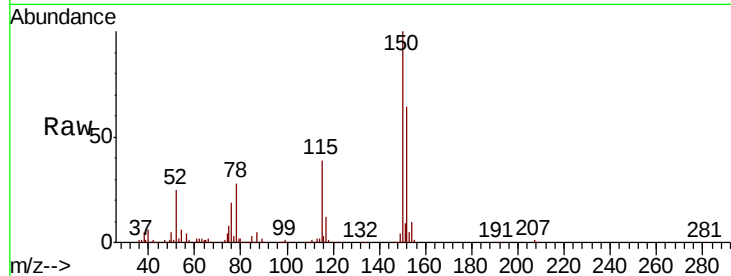
Tot Ion:152 Resp: 236512

Ion Ratio Lower Upper

152 100

115 61.3 30.4 91.2

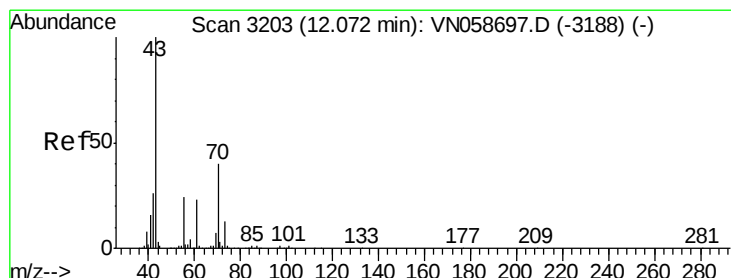
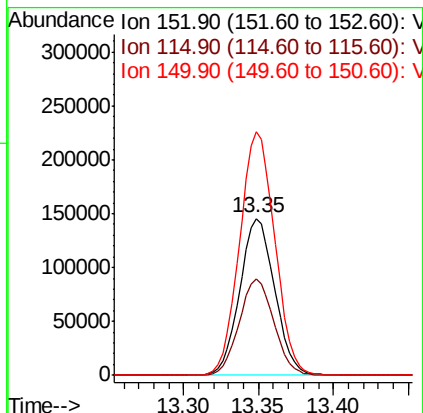
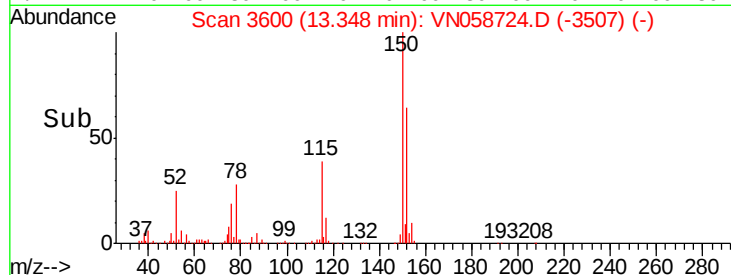
150 156.6 0.0 345.4



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



#74

N-ethyl acetate

Concen: 0.766 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Tgt Ion: 43 Resp: 5896

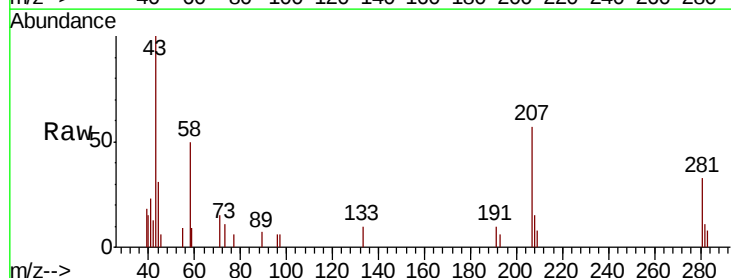
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 3.4 19.6 29.4#

61 0.0 18.6 28.0#

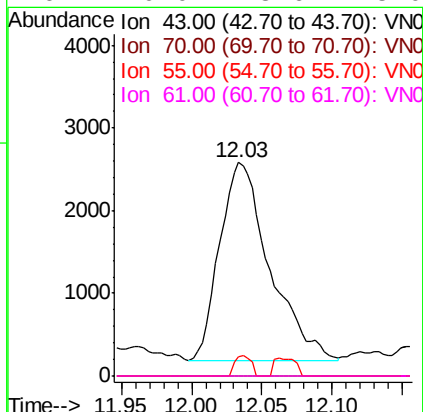
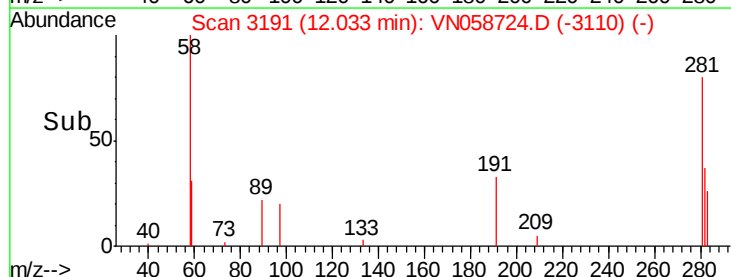


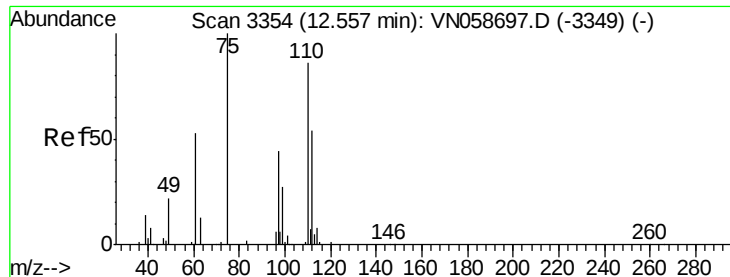
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 28.730 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampled :

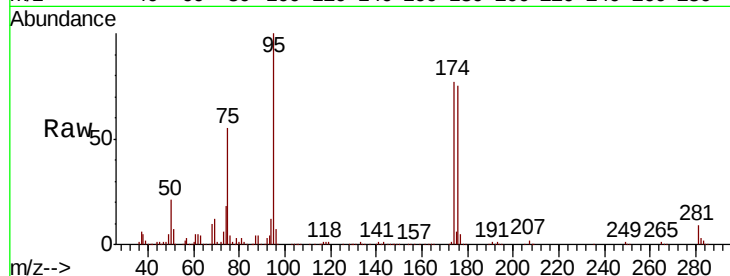
PB123806TB

Tot Ion: 75 Resp: 149066

Ion Ratio Lower Upper

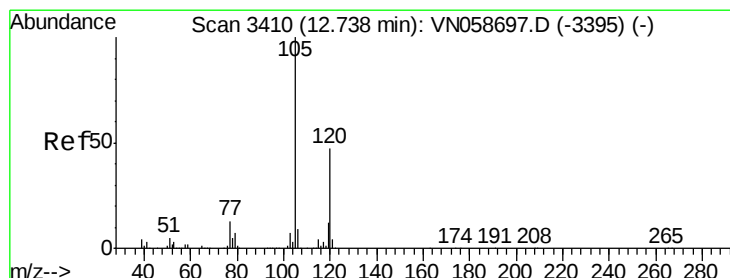
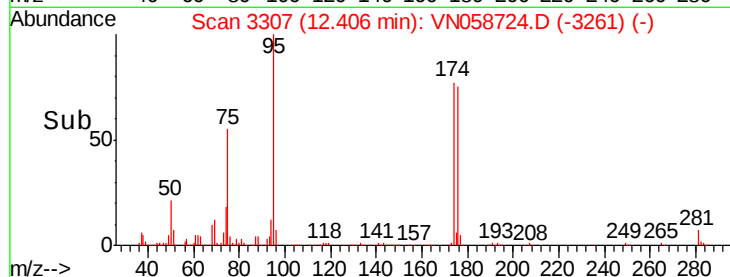
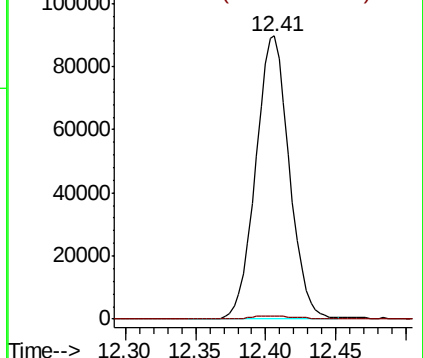
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.761 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058724.D

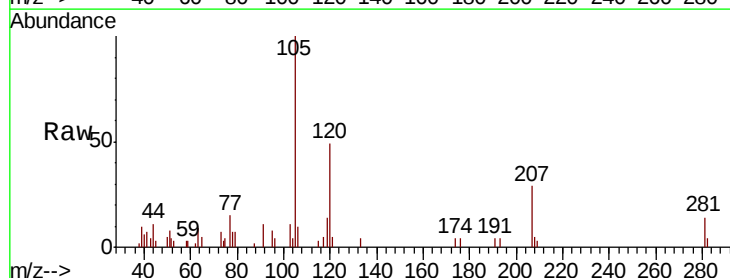
Acq: 12 Oct 2019 00:27

Tgt Ion: 105 Resp: 11129

Ion Ratio Lower Upper

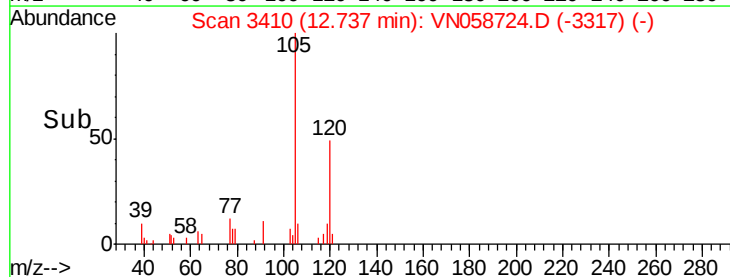
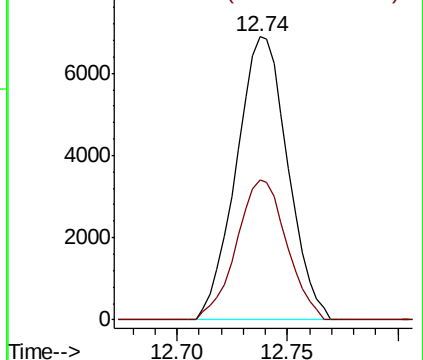
105 100

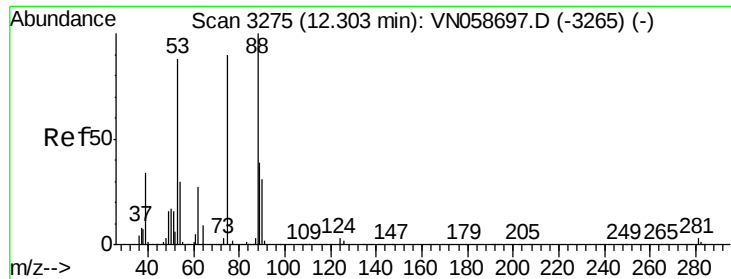
120 48.2 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.959 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058724.D

Acq: 12 Oct 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

PB123806TB

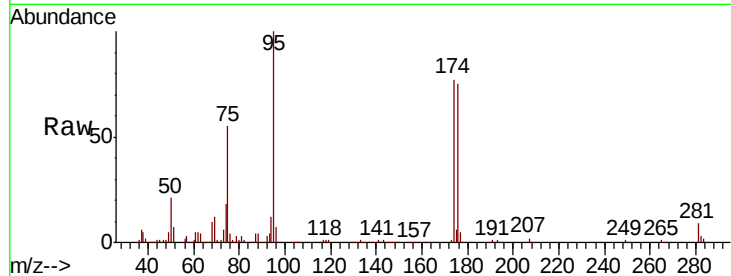
Tot Ion: 75 Resp: 149066

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.1 34.9 52.3#



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

