

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100818\
 Data File : VN051724.D
 Acq On : 8 Oct 2018 10:27
 Operator : MD\SY
 Sample : J5248-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 N48971

Quant Time: Oct 09 03:49:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	768202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1087727	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	938624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	336648	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	452953	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	
35) Dibromofluoromethane	7.59	113	409069	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
50) Toluene-d8	10.09	98	1527341	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
62) 4-Bromofluorobenzene	12.40	95	422578	38.05	ug/l	0.00
Spiked Amount			Recovery	=	76.10%	

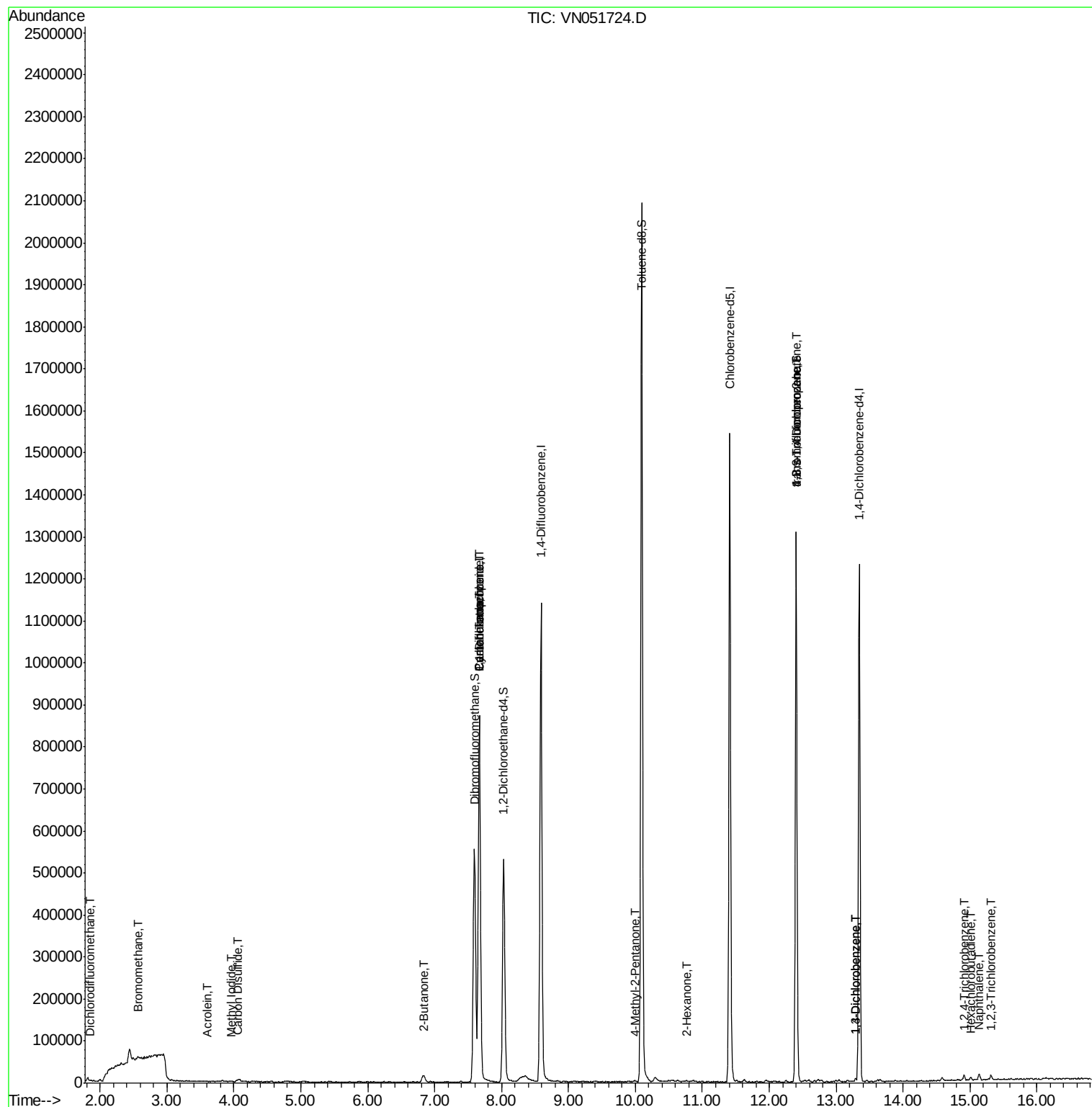
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	421	1.192	ug/l #	42
5) Bromomethane	2.57	94	2753	0.259	ug/l #	78
7) Trichlorofluoromethane	3.00	101	198	Below Cal	#	40
10) Methyl Iodide	3.96	142	807	2.414	ug/l #	91
13) Acrolein	3.60	56	327	0.759	ug/l #	14
16) Acetone	3.82	43	4854	Below Cal	#	84
17) Carbon Disulfide	4.05	76	5445	0.250	ug/l	99
25) 2-Butanone	6.83	43	766	0.261	ug/l #	44
31) Cyclohexane	7.67	56	15302	1.111	ug/l #	56
36) 1,1-Dichloropropene	7.67	75	51919	4.567	ug/l #	48
38) Carbon Tetrachloride	7.67	117	68569	5.026	ug/l #	15
41) Methacrylonitrile	7.18	41	536	Below Cal	#	34
51) 4-Methyl-2-Pentanone	9.99	43	1446	0.231	ug/l	88
59) 2-Hexanone	10.76	43	1831	0.430	ug/l	99
74) N-amyl acetate	12.08	43	1454	Below Cal	#	65
75) 1,1,2,2-Tetrachloroethane	12.50	83	431	Below Cal	#	80
76) 1,2,3-Trichloropropane	12.40	75	231405	55.797	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	231405	126.354	ug/l #	14
87) 1,3-Dichlorobenzene	13.28	146	2491	0.204	ug/l	95
88) 1,4-Dichlorobenzene	13.28	146	2491	0.207	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	4166	0.770	ug/l	90
94) Hexachlorobutadiene	15.00	225	1360	0.371	ug/l #	61
95) Naphthalene	15.13	128	11194	0.958	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	4312	0.809	ug/l	92

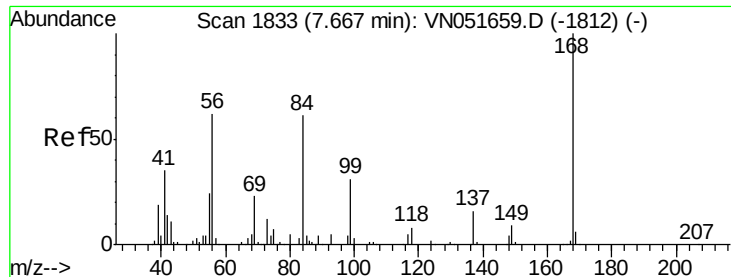
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 05 02:22:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampled :

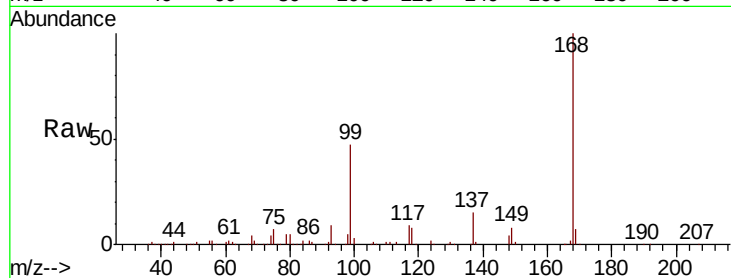
N48971

Tot Ion:168 Resp: 768202

Ion Ratio Lower Upper

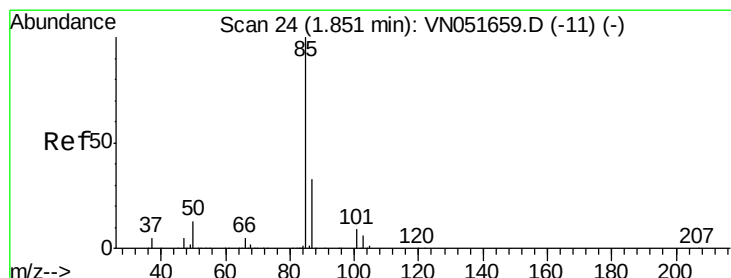
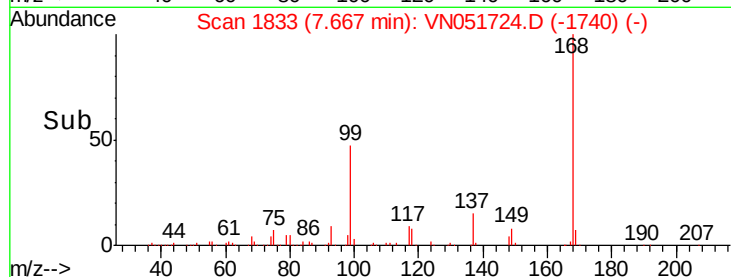
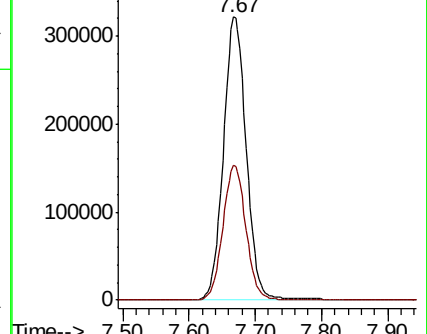
168 100

99 47.5 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 1.192 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051724.D

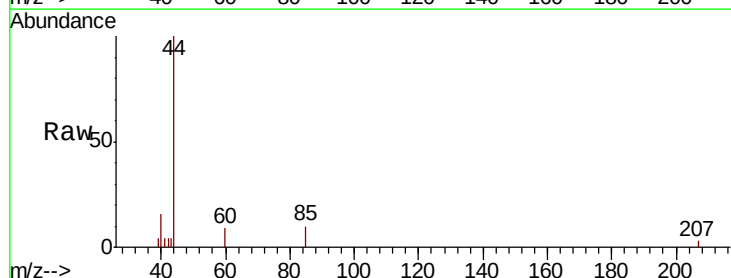
Acq: 8 Oct 2018 10:27

Tgt Ion: 85 Resp: 421

Ion Ratio Lower Upper

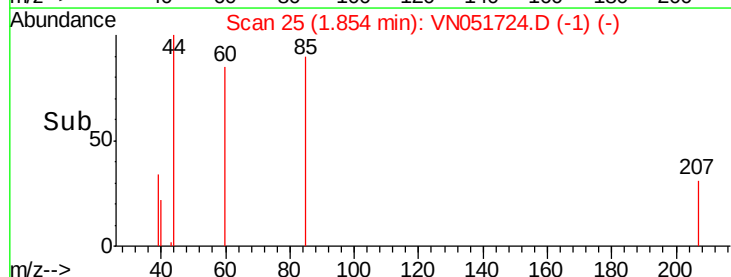
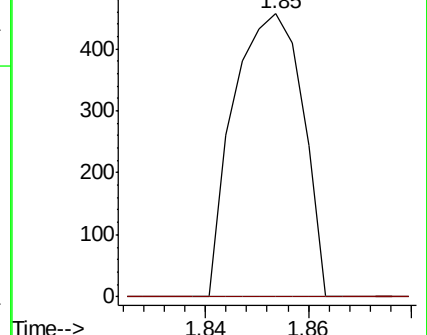
85 100

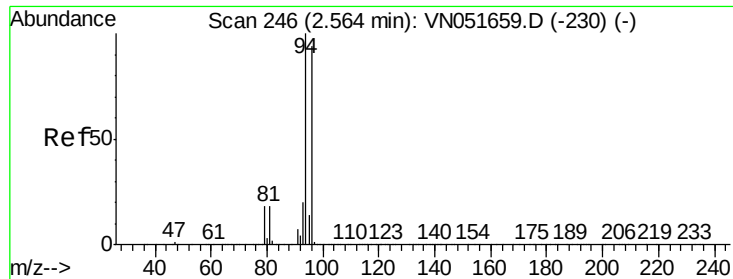
87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#5

Bromomethane

Concen: 0.259 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampled :

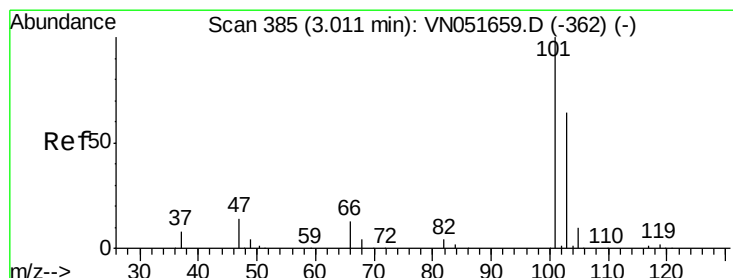
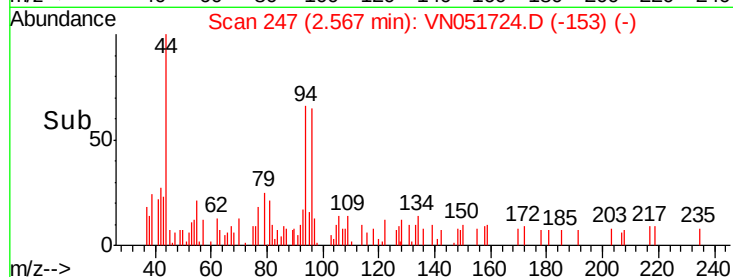
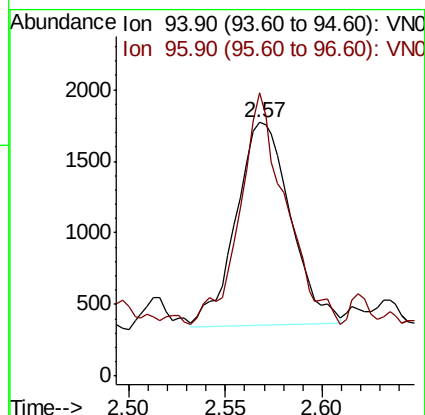
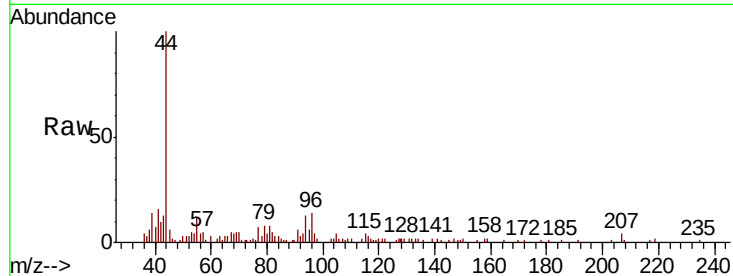
N48971

Tot Ion: 94 Resp: 2753

Ion Ratio Lower Upper

94 100

96 115.7 75.2 112.8#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.00 min Scan# 382

Delta R.T. -0.01 min

Lab File: VN051724.D

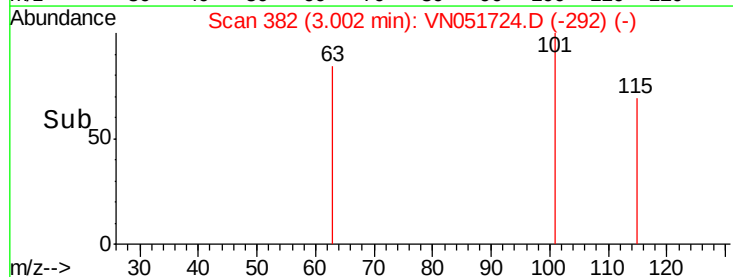
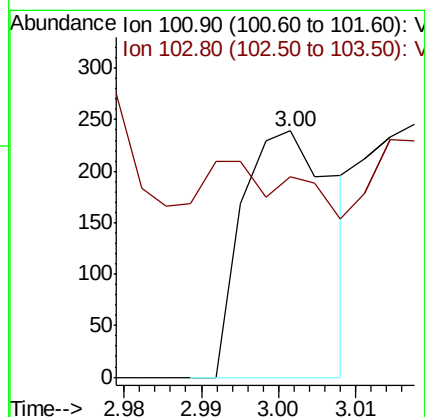
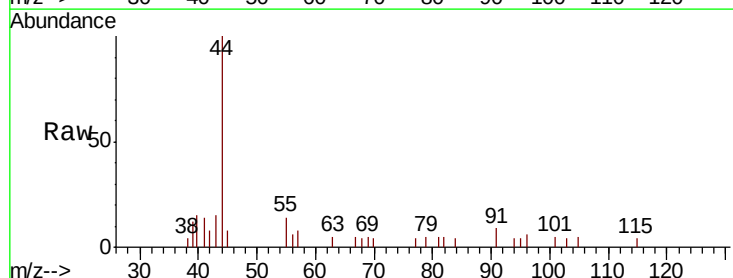
Acq: 8 Oct 2018 10:27

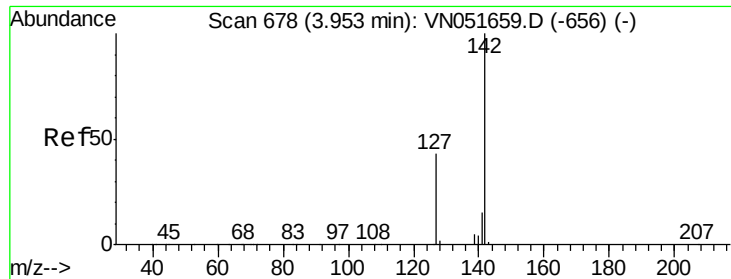
Tgt Ion: 101 Resp: 198

Ion Ratio Lower Upper

101 100

103 17.2 51.1 76.7#

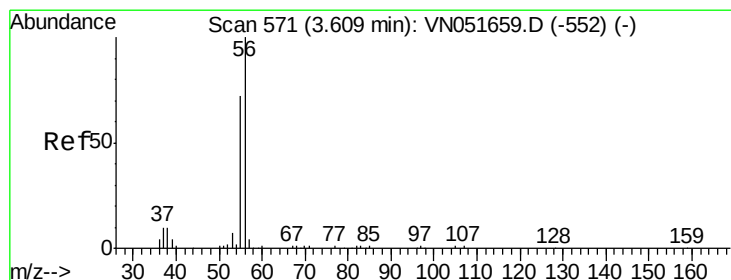
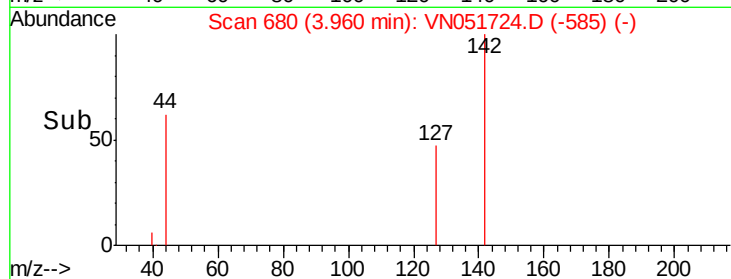
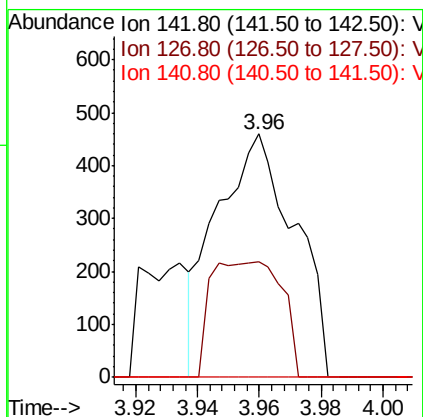
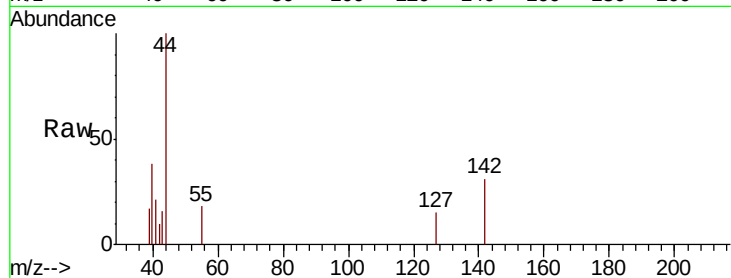




#10
Methvl Iodide
Concen: 2.414 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.01 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

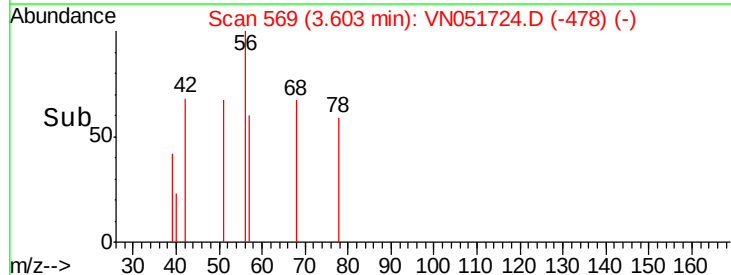
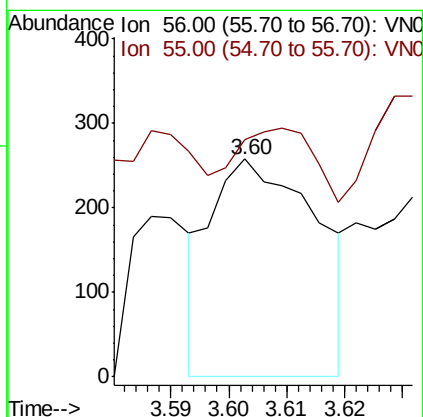
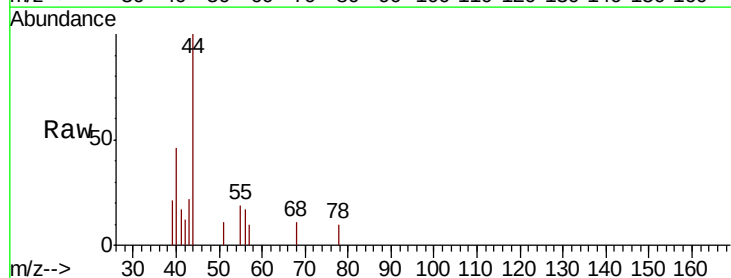
Instrument :
MSVOA_N
ClientSampled :
N48971

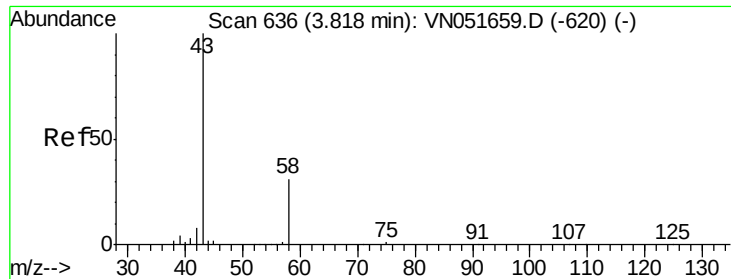
Tot Ion:142 Resp: 807
Ion Ratio Lower Upper
142 100
127 43.1 34.7 52.1
141 0.0 11.4 17.2#



#13
Acrolein
Concen: 0.759 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.01 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

Tgt Ion: 56 Resp: 327
Ion Ratio Lower Upper
56 100
55 0.0 57.5 86.3#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

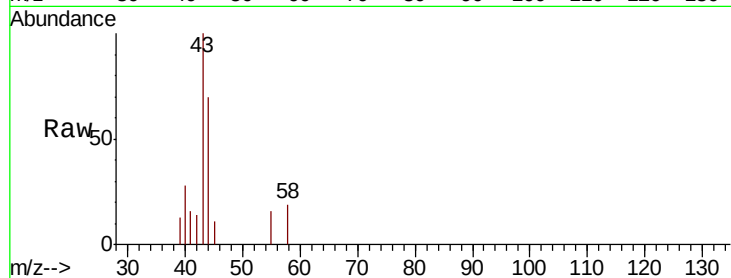
N48971

Tot Ion: 43 Resp: 4854

Ion Ratio Lower Upper

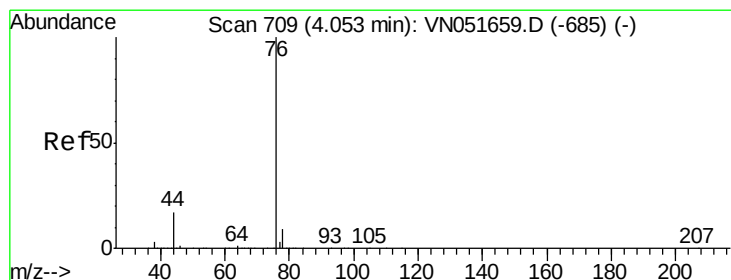
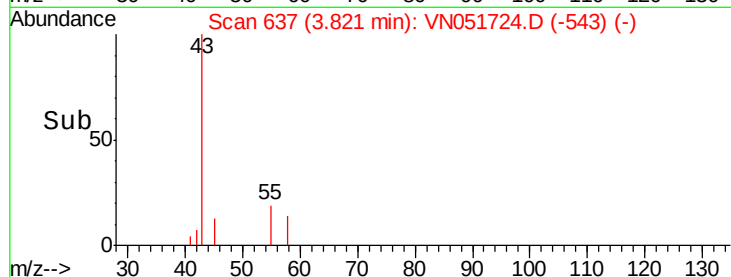
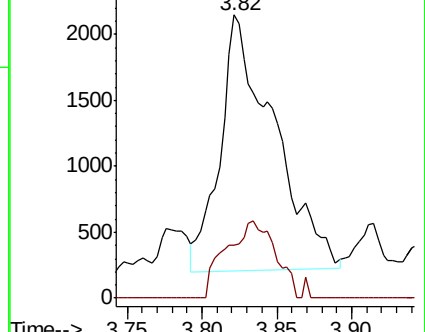
43 100

58 21.8 24.3 36.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-620) (-)

Ion 58.00 (57.70 to 58.70): VN051659.D (-620) (-)



#17

Carbon Disulfide

Concen: 0.250 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051724.D

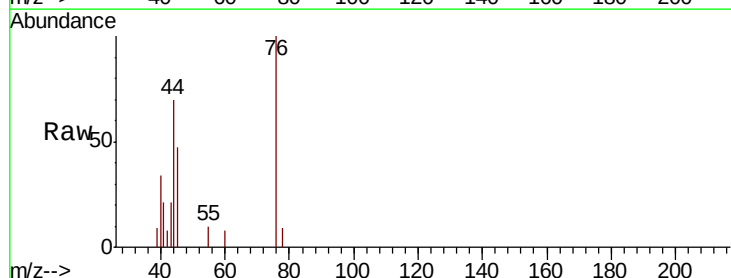
Acq: 8 Oct 2018 10:27

Tgt Ion: 76 Resp: 5445

Ion Ratio Lower Upper

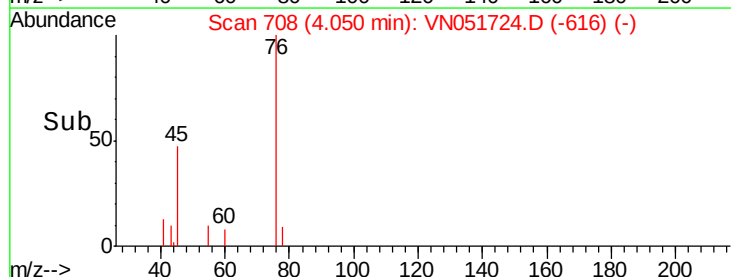
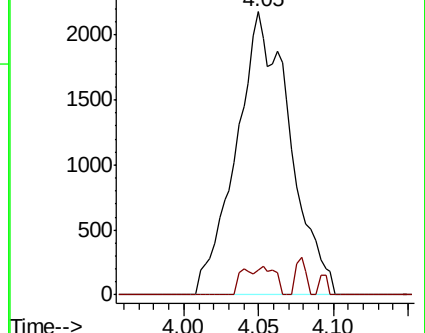
76 100

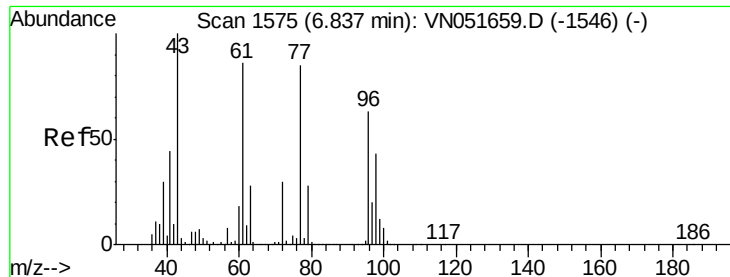
78 8.8 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VN051659.D (-685) (-)

Ion 77.90 (77.60 to 78.60): VN051659.D (-685) (-)





#25

2-Butanone

Concen: 0.261 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

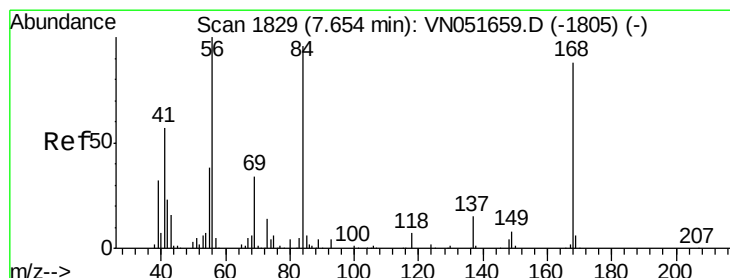
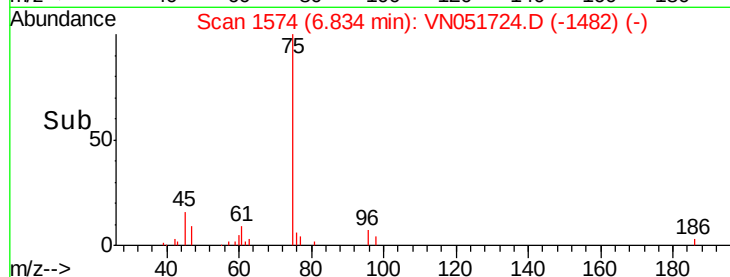
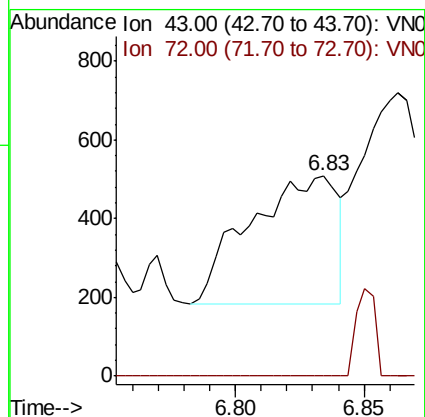
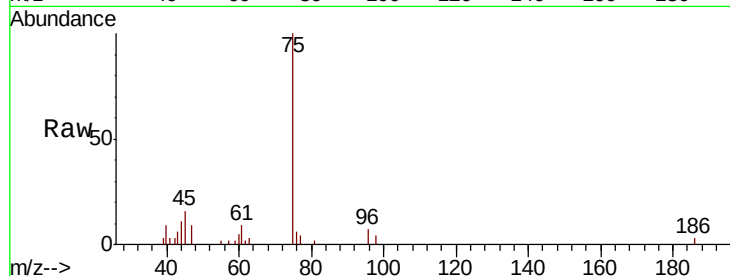
N48971

Tot Ion: 43 Resp: 766

Ion Ratio Lower Upper

43 100

72 0.0 24.2 36.2#



#31

Cyclohexane

Concen: 1.111 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

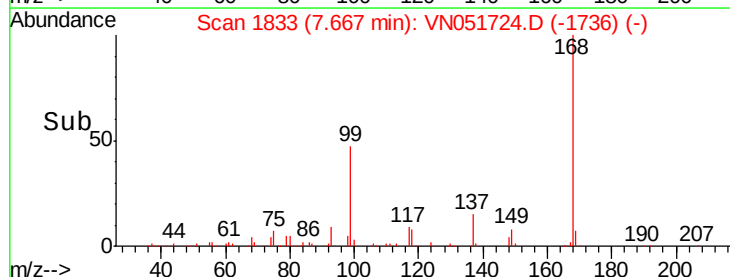
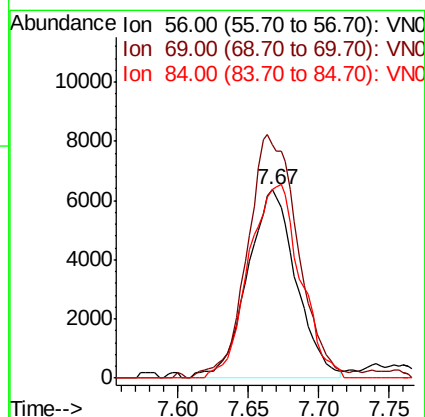
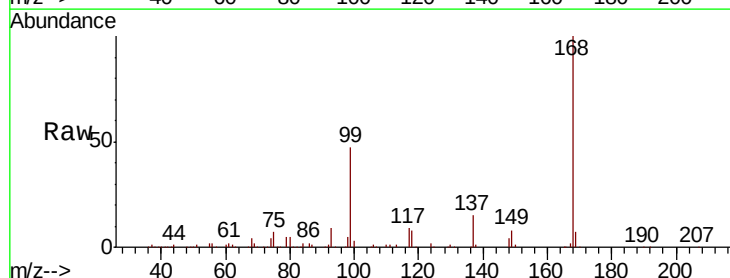
Tgt Ion: 56 Resp: 15302

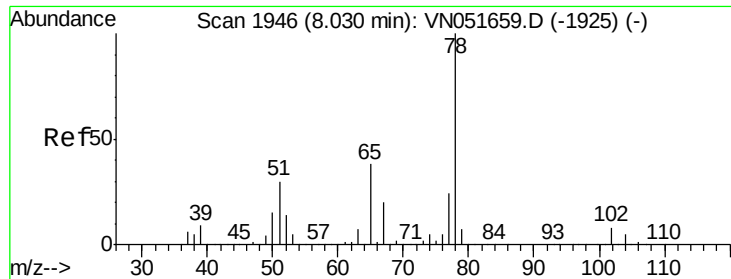
Ion Ratio Lower Upper

56 100

69 123.8 27.5 41.3#

84 99.9 76.7 115.1

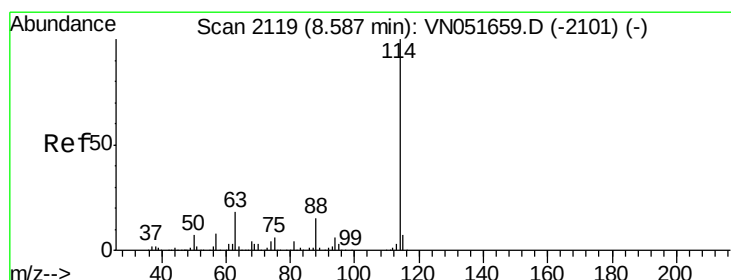
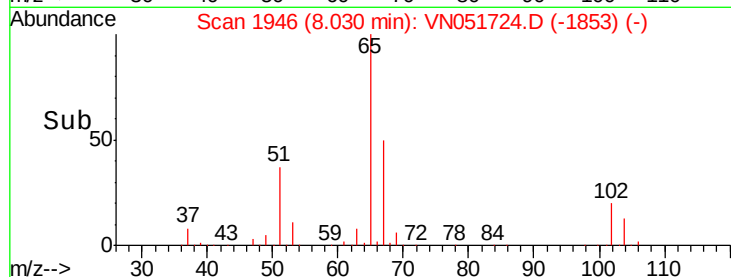
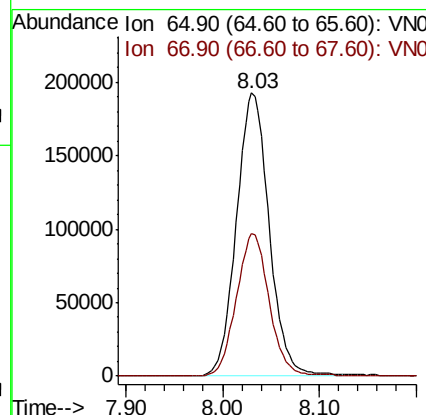
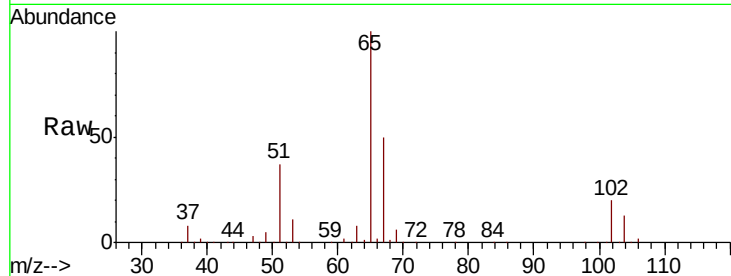




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

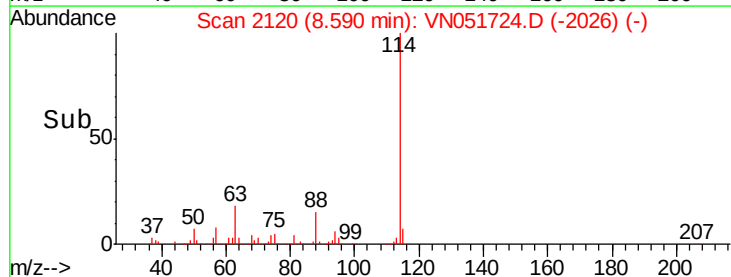
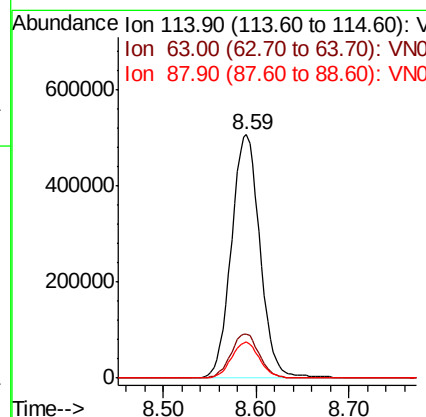
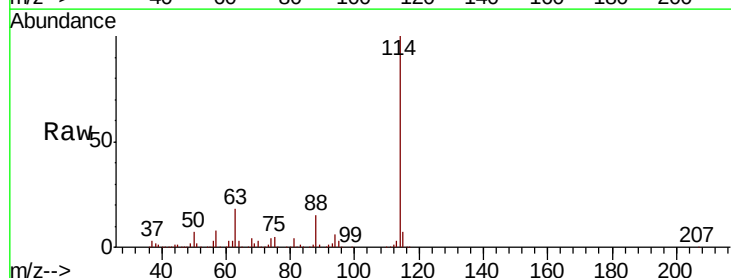
Instrument :
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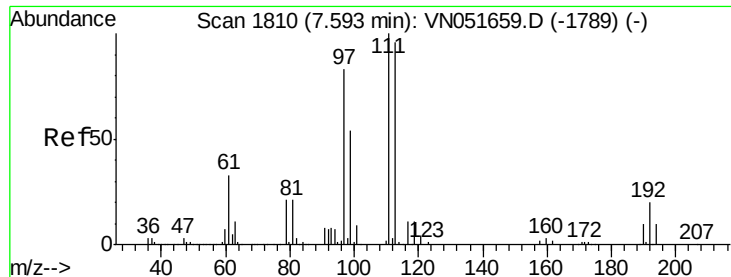
Tot Ion: 65 Resp: 452953
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

Tgt Ion: 114 Resp: 1087727
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 36.2
 88 14.6 0.0 30.2

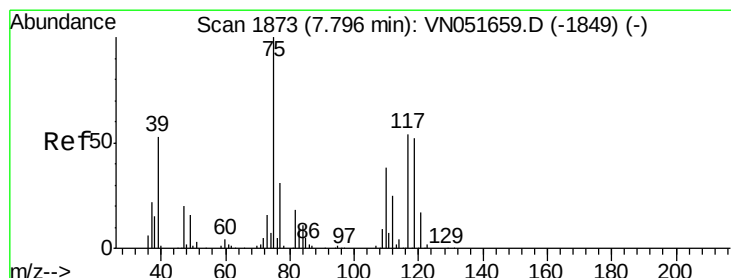
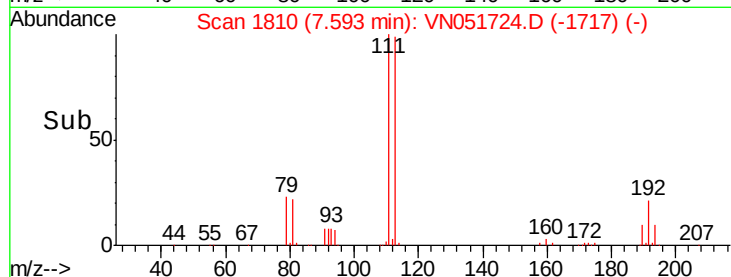
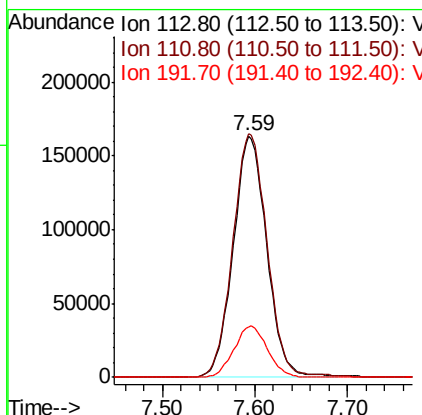
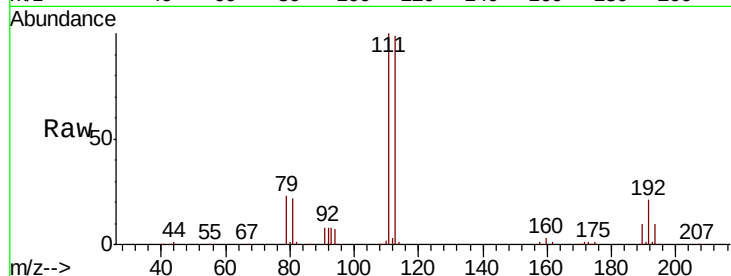




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

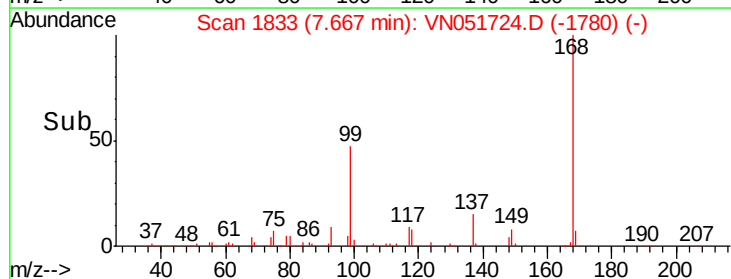
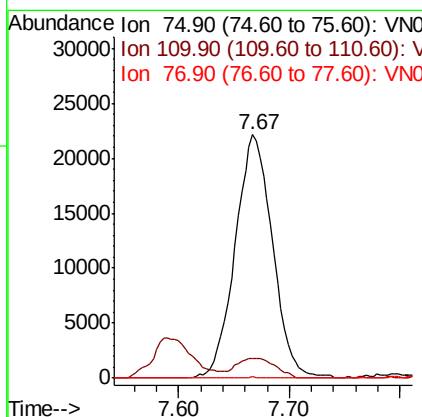
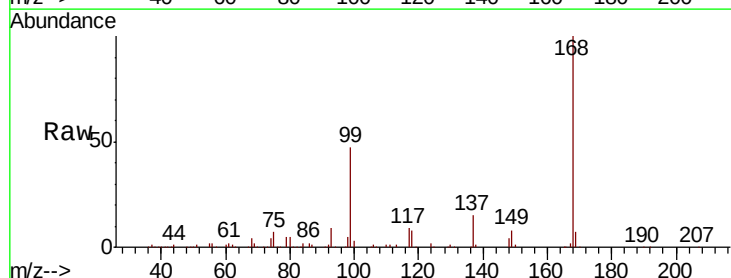
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 N48971

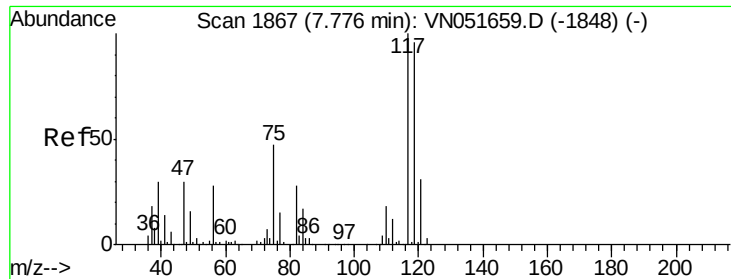
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.8
192	21.3	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.567 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	19.3	57.8#
77	0.1	24.7	37.1#

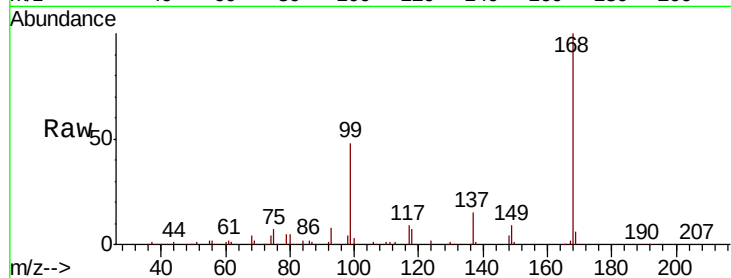




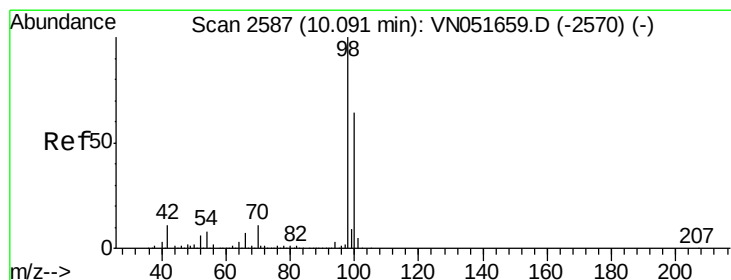
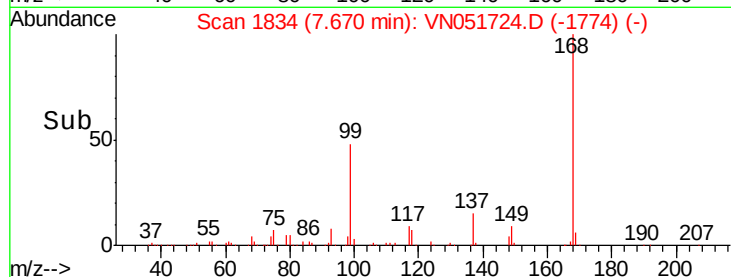
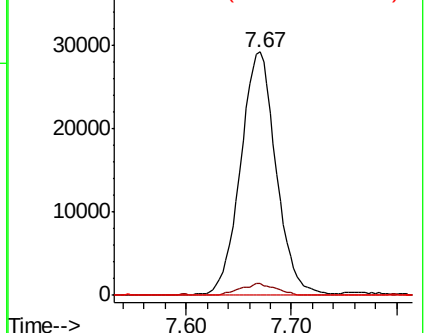
#38
Carbon Tetrachloride
Concen: 5.026 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

Instrument :
MSVOA_N
ClientSampled :
N48971

Tot Ion:117 Resp: 68569
Ion Ratio Lower Upper
117 100
119 4.7 77.0 115.6#
121 0.0 25.0 37.6#

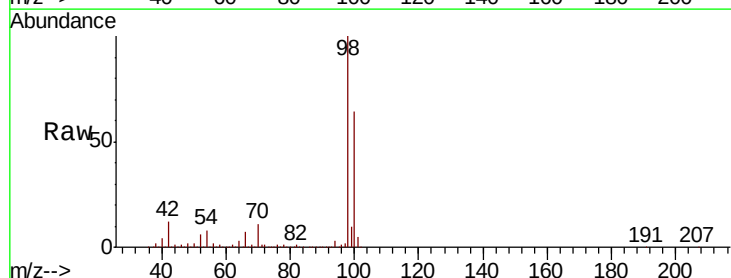


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

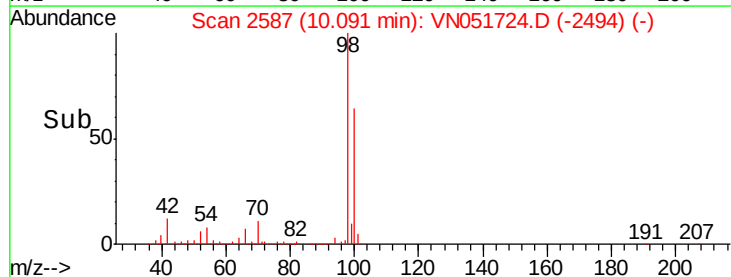
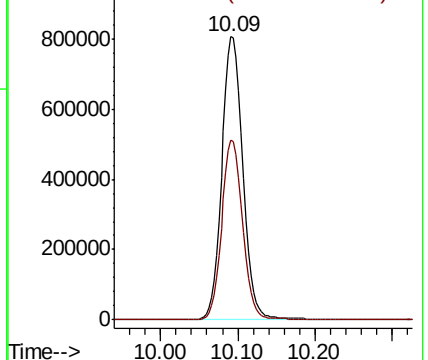


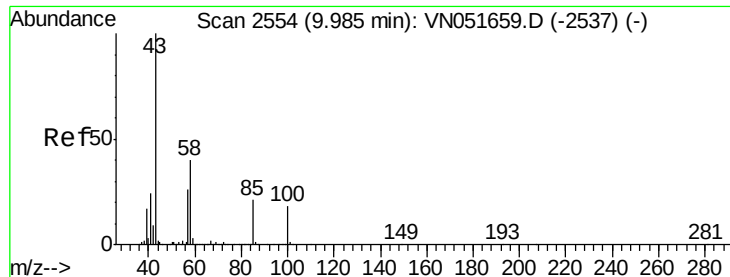
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

Tgt Ion: 98 Resp: 1527341
Ion Ratio Lower Upper
98 100
100 63.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.231 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampled :

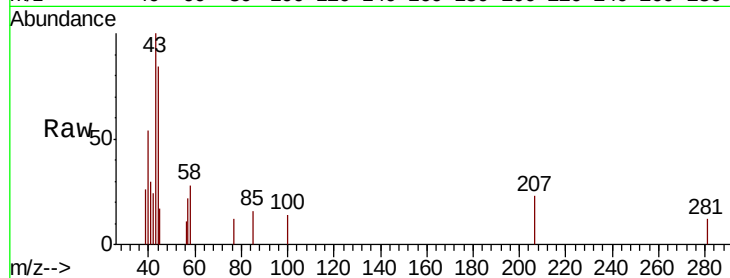
N48971

Tot Ion: 43 Resp: 1446

Ion Ratio Lower Upper

43 100

58 47.6 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

1500

1000

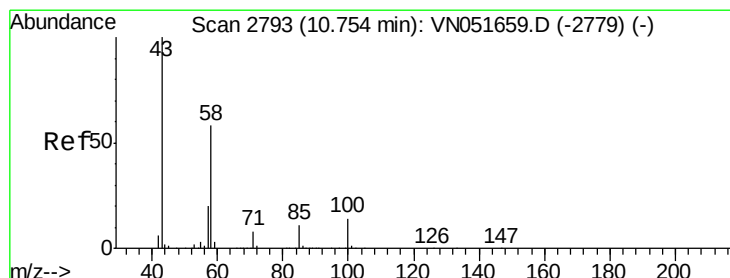
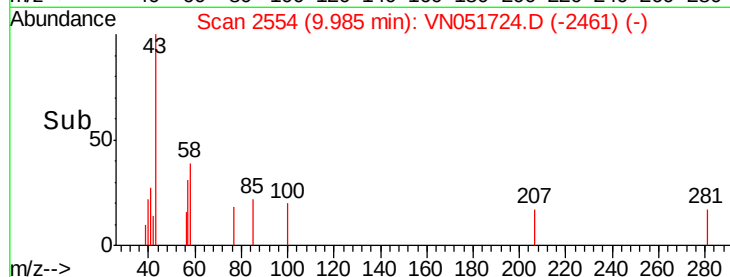
500

0

9.95

10.00

Time-->



#59

2-Hexanone

Concen: 0.430 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051724.D

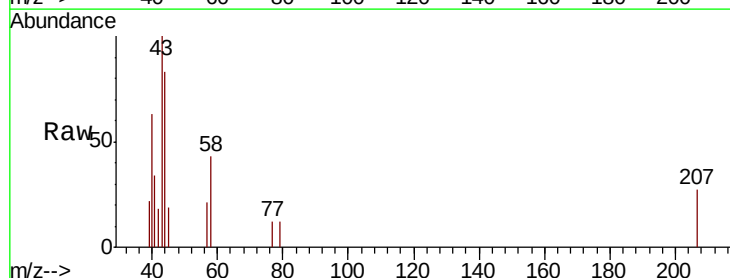
Acq: 8 Oct 2018 10:27

Tgt Ion: 43 Resp: 1831

Ion Ratio Lower Upper

43 100

58 58.5 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

1500

1000

500

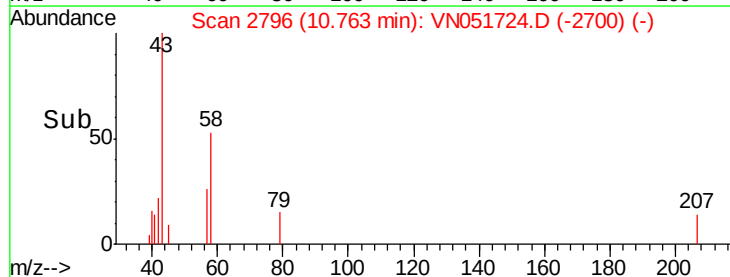
0

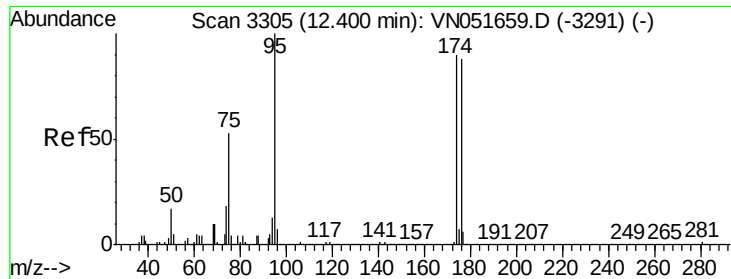
10.70

10.75

10.80

Time-->

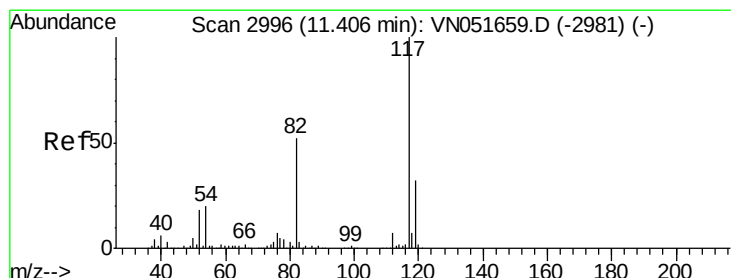
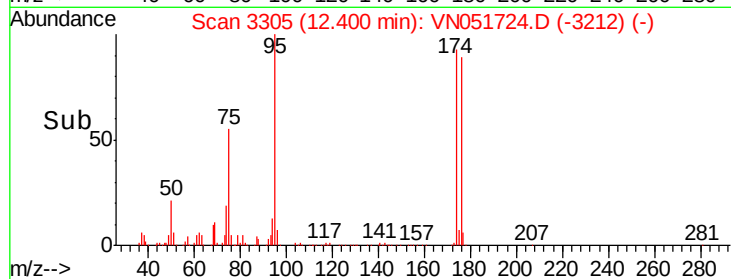
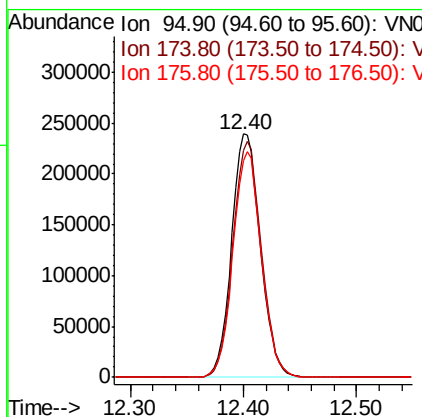
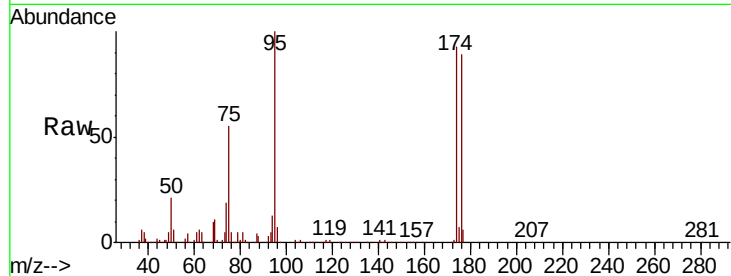




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

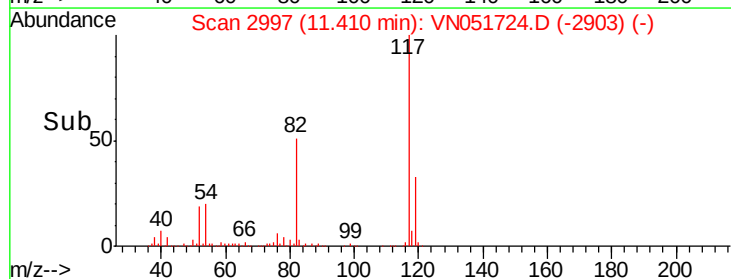
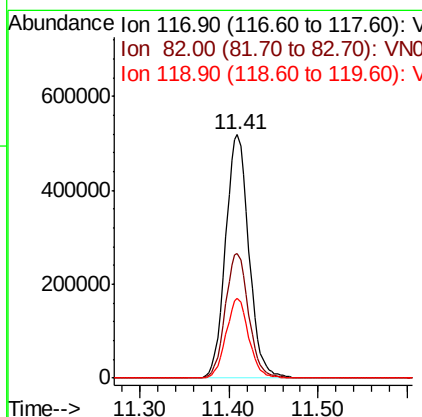
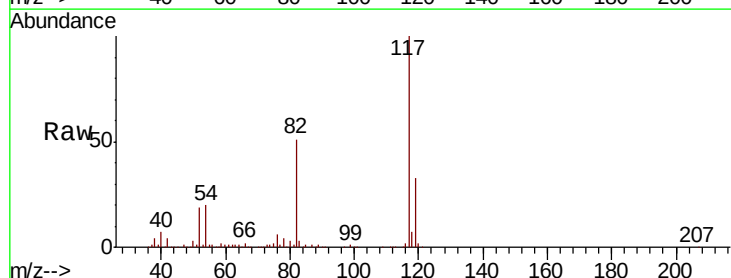
Instrument :
MSVOA_N
ClientSampleId :
N48971

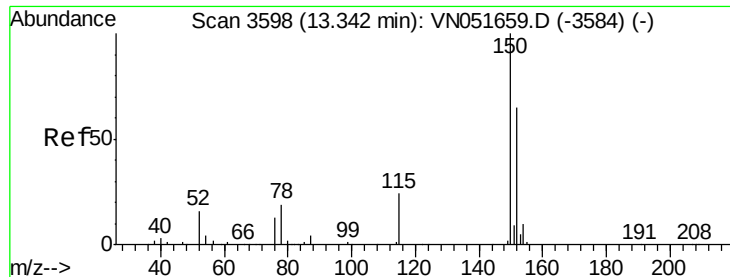
Tot Ion: 95 Resp: 422578
Ion Ratio Lower Upper
95 100
174 96.0 0.0 182.8
176 91.9 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

Tgt Ion: 117 Resp: 938624
Ion Ratio Lower Upper
117 100
82 51.3 41.3 61.9
119 32.8 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampleId :

N48971

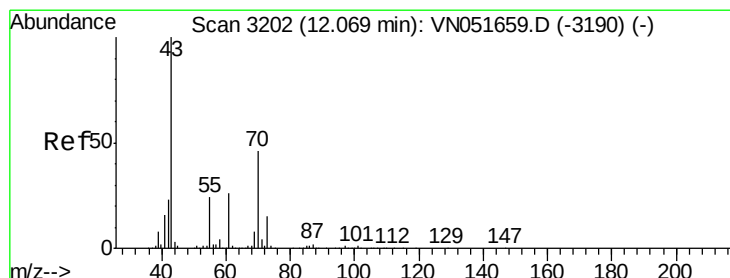
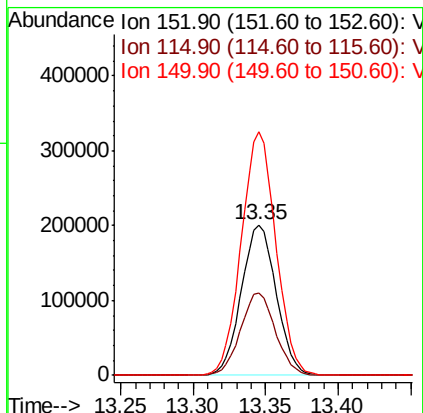
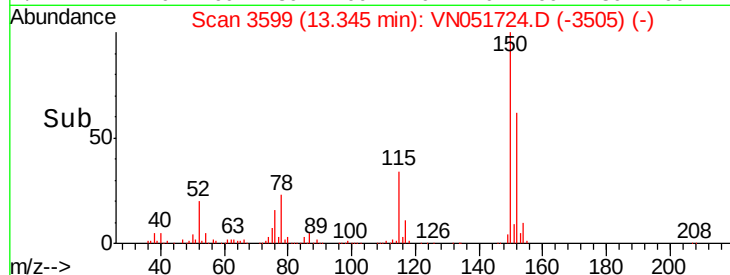
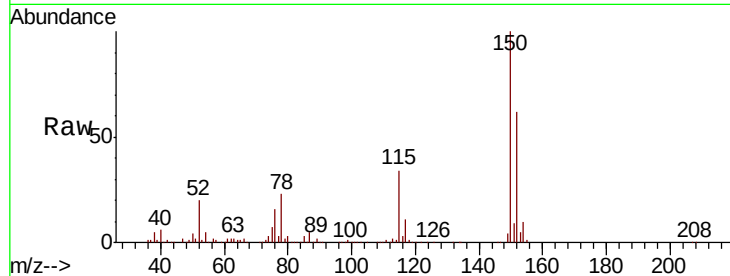
Tot Ion:152 Resp: 336648

Ion Ratio Lower Upper

152 100

115 54.6 28.6 85.8

150 160.0 0.0 352.4



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3207

Delta R.T. 0.02 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Tgt Ion: 43 Resp: 1454

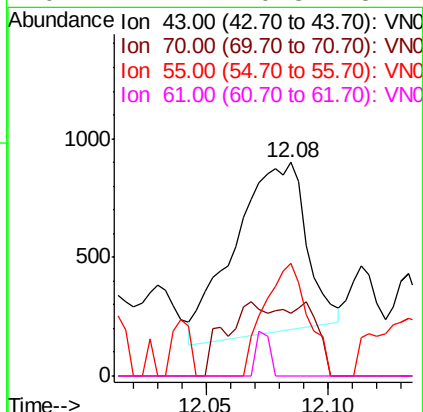
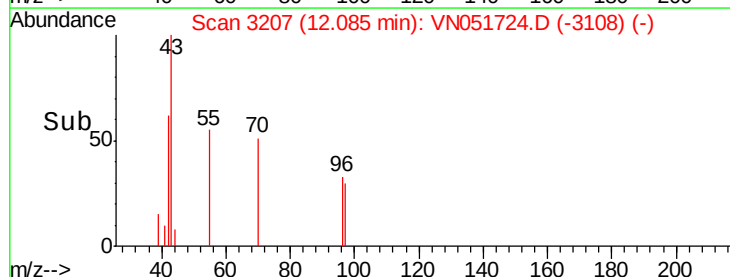
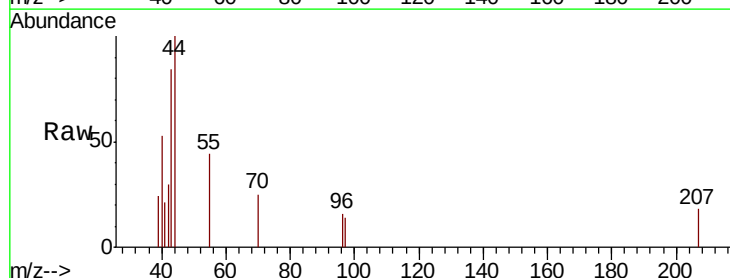
Ion Ratio Lower Upper

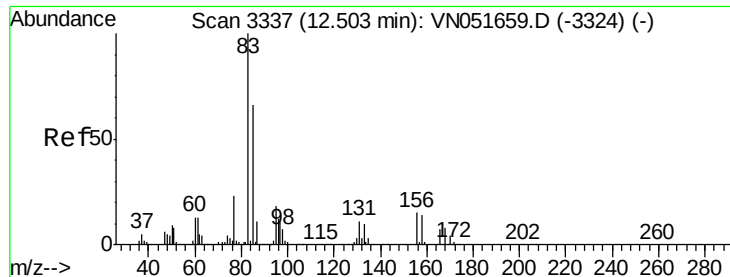
43 100

70 25.4 37.1 55.7#

55 40.5 19.1 28.7#

61 4.7 20.8 31.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampled :

N48971

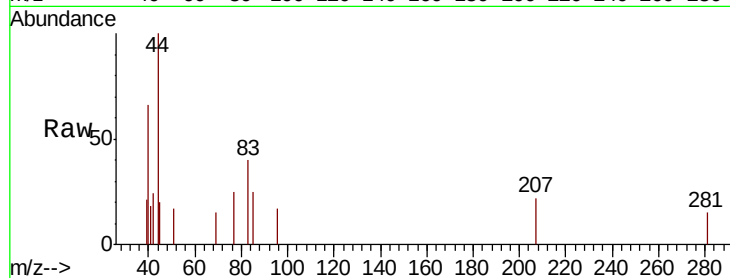
Tot Ion: 83 Resp: 431

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 51.7 33.0 98.9



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.50

400

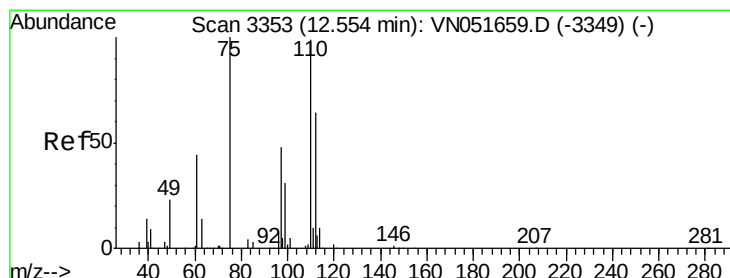
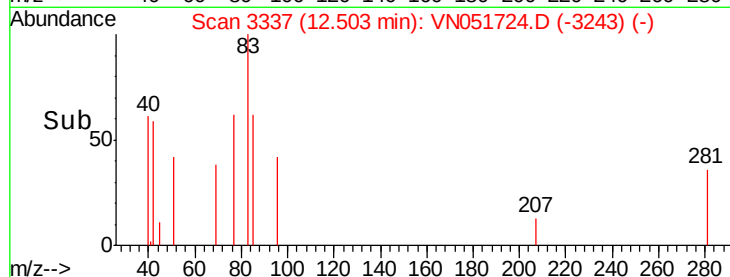
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 55.797 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051724.D

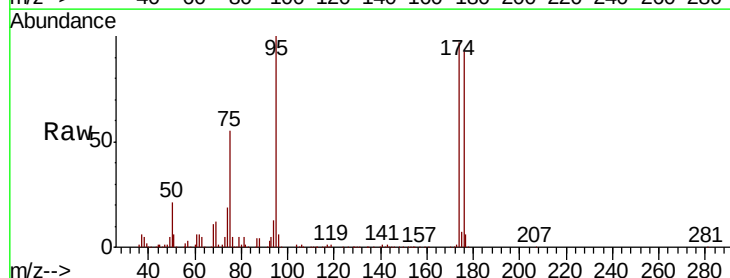
Acq: 8 Oct 2018 10:27

Tgt Ion: 75 Resp: 231405

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

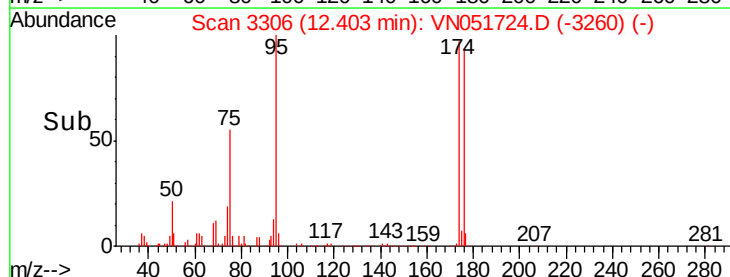
150000

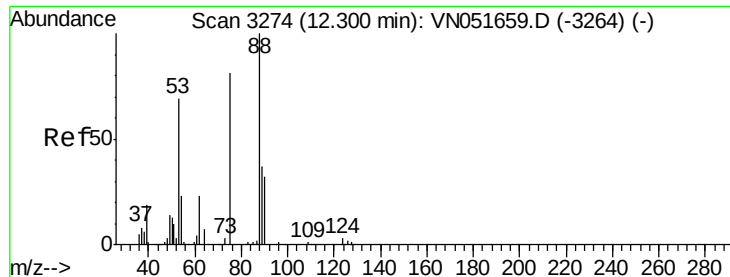
100000

50000

0

Time-->

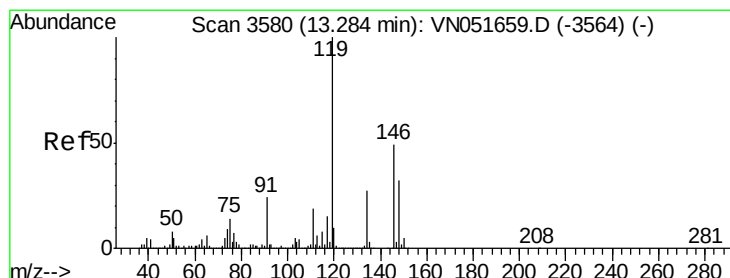
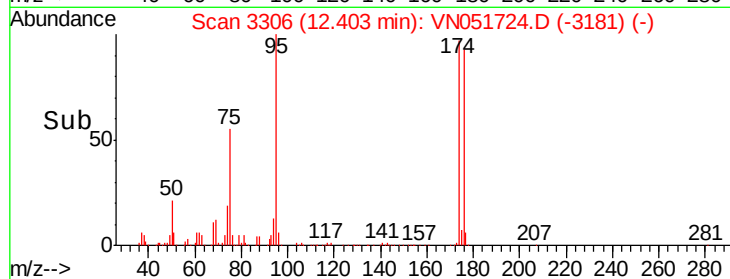
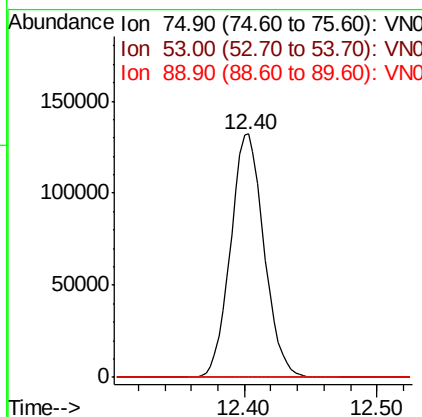
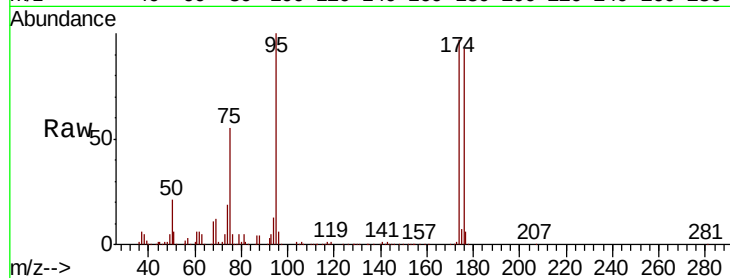




#81
trans-1,4-Dichloro-2-butene
Concen: 126.354 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

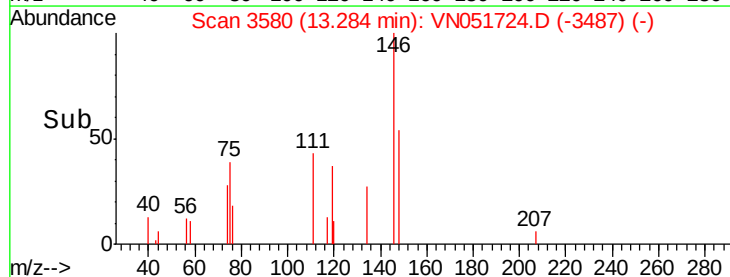
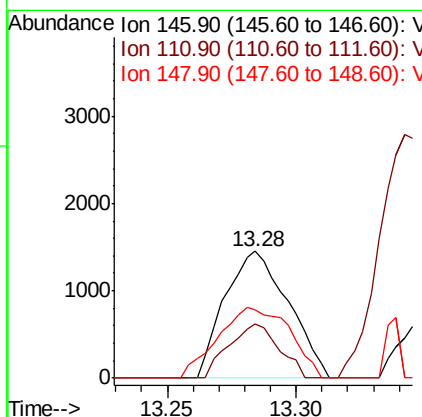
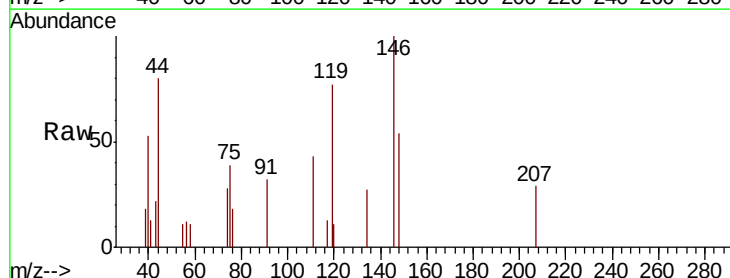
Instrument :
MSVOA_N
ClientSampleId :
N48971

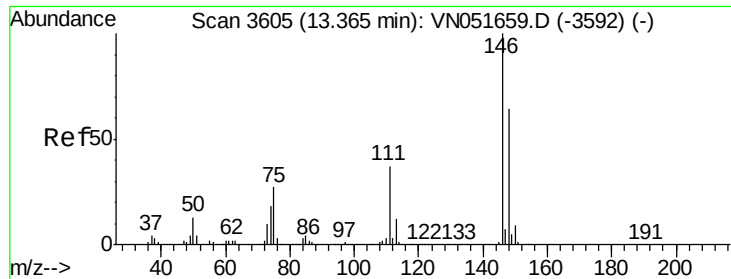
Tot Ion: 75 Resp: 231405
Ion Ratio Lower Upper
75 100
53 0.0 68.6 102.8#
89 0.0 39.4 59.2#



#87
1,3-Dichlorobenzene
Concen: 0.204 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. -0.00 min
Lab File: VN051724.D
Acq: 8 Oct 2018 10:27

Tgt Ion: 146 Resp: 2491
Ion Ratio Lower Upper
146 100
111 33.7 19.3 57.9
148 62.8 32.5 97.5

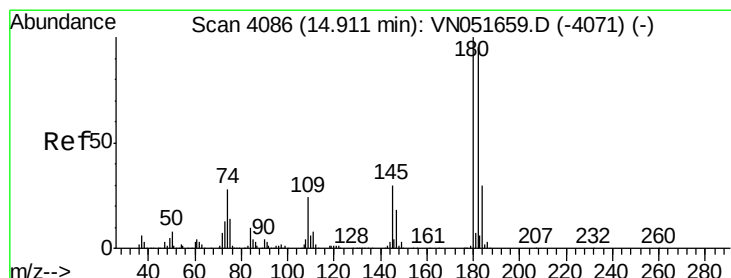
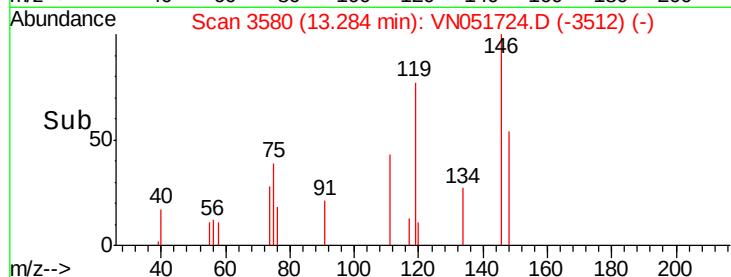
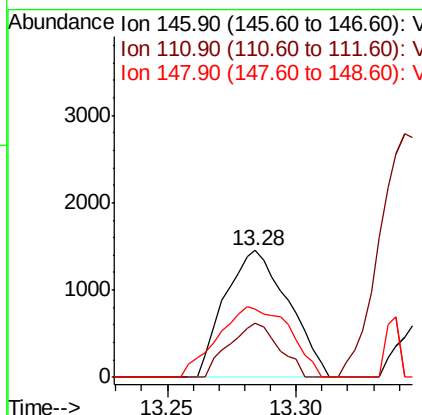
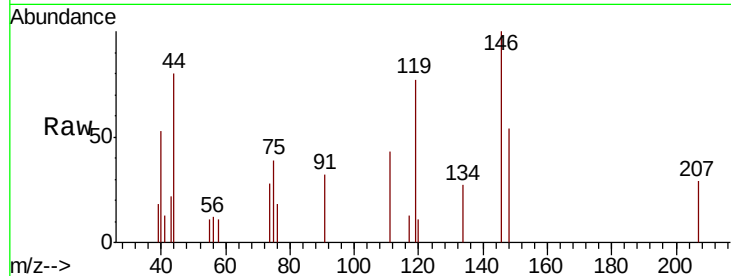




#88
 1,4-Dichlorobenzene
 Concen: 0.207 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

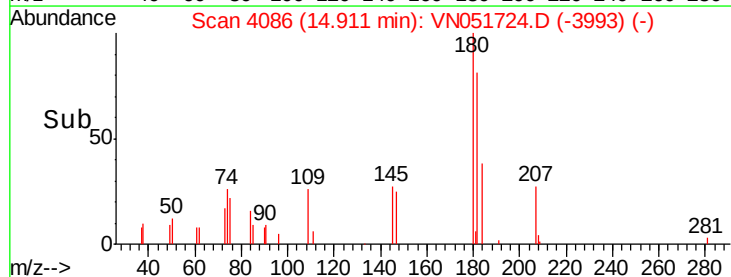
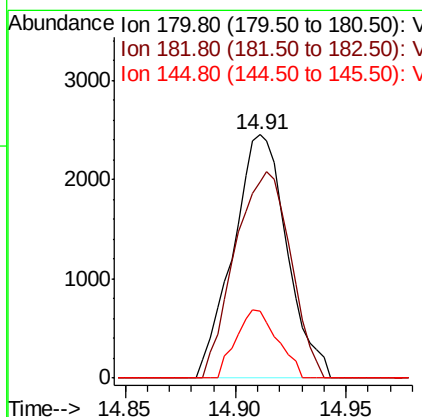
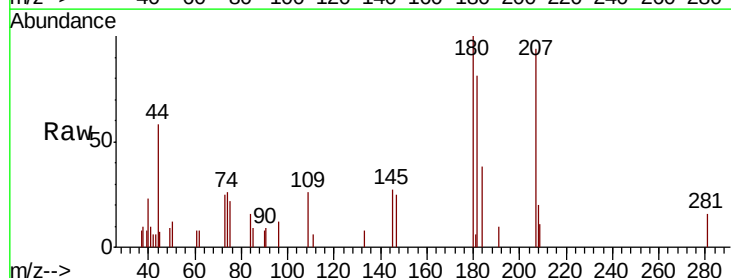
Instrument :
 MSVOA_N
 ClientSampled :
 N48971

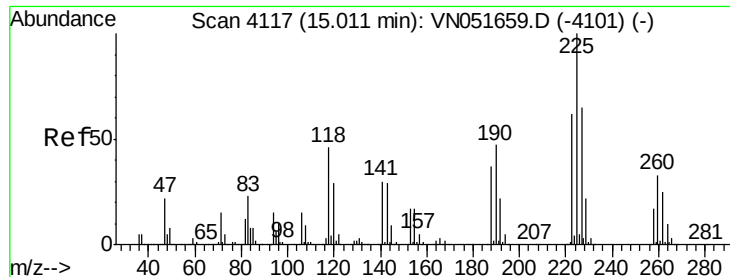
Tot Ion:146 Resp: 2491
 Ion Ratio Lower Upper
 146 100
 111 33.7 18.6 55.8
 148 62.8 32.3 96.8



#93
 1,2,4-Trichlorobenzene
 Concen: 0.770 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

Tgt Ion:180 Resp: 4166
 Ion Ratio Lower Upper
 180 100
 182 87.3 47.7 143.1
 145 21.5 15.3 45.9





#94

Hexachlorobutadiene

Concen: 0.371 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

Instrument :

MSVOA_N

ClientSampled :

N48971

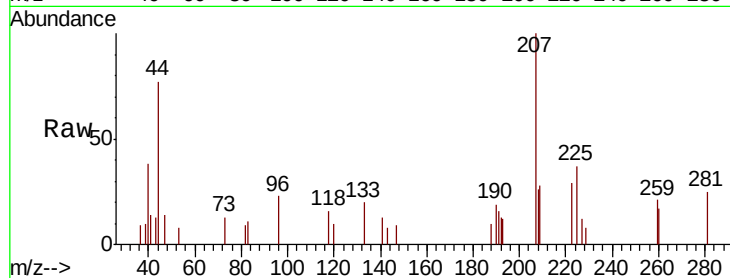
Tot Ion:225 Resp: 1360

Ion Ratio Lower Upper

225 100

223 53.2 31.9 95.5

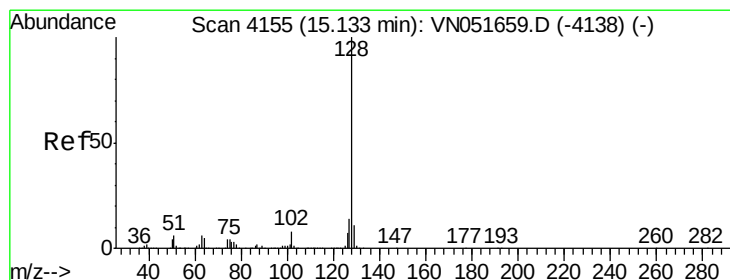
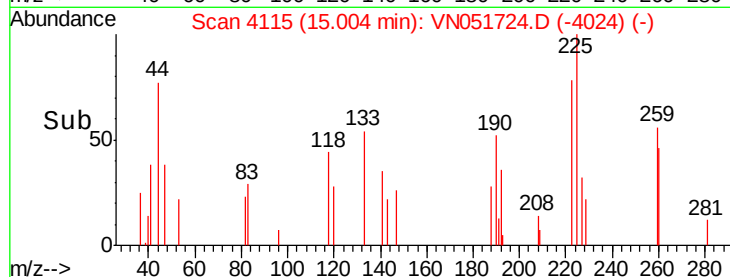
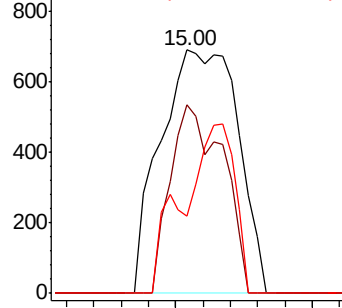
227 13.7 31.7 95.1#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.958 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051724.D

Acq: 8 Oct 2018 10:27

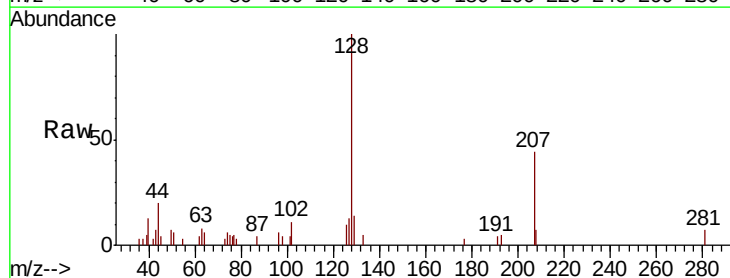
Tgt Ion:128 Resp: 11194

Ion Ratio Lower Upper

128 100

127 12.0 10.6 15.8

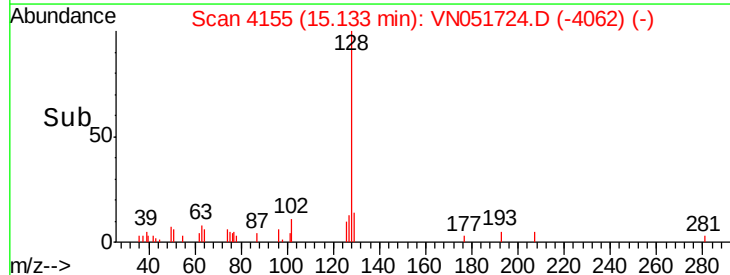
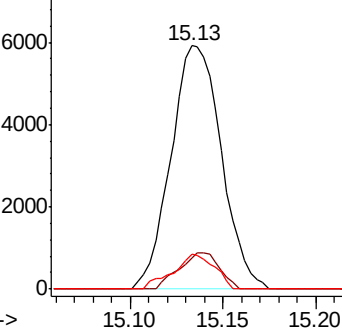
129 11.8 9.0 13.6

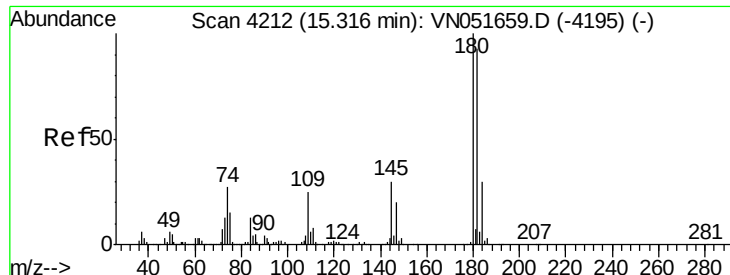


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

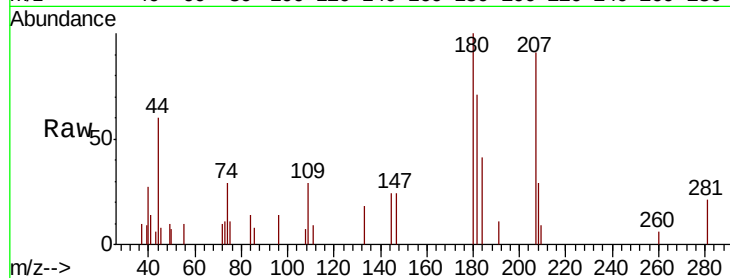




#96
 1,2,3-Trichlorobenzene
 Concen: 0.809 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN051724.D
 Acq: 8 Oct 2018 10:27

Instrument :
 MSVOA_N
 ClientSampleId :
 N48971

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.6	47.3	141.8
145	26.3	15.6	46.8



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

