

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121718\
 Data File : VN052932.D
 Acq On : 17 Dec 2018 17:24
 Operator : MD\SY
 Sample : PB115729ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 18 04:45:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1298122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2013735	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1777396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	717637	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	667252	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	7.59	113	464915	41.36	ug/l	0.00
Spiked Amount			Recovery	=	82.72%	
50) Toluene-d8	10.09	98	2441629	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
62) 4-Bromofluorobenzene	12.40	95	799502	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

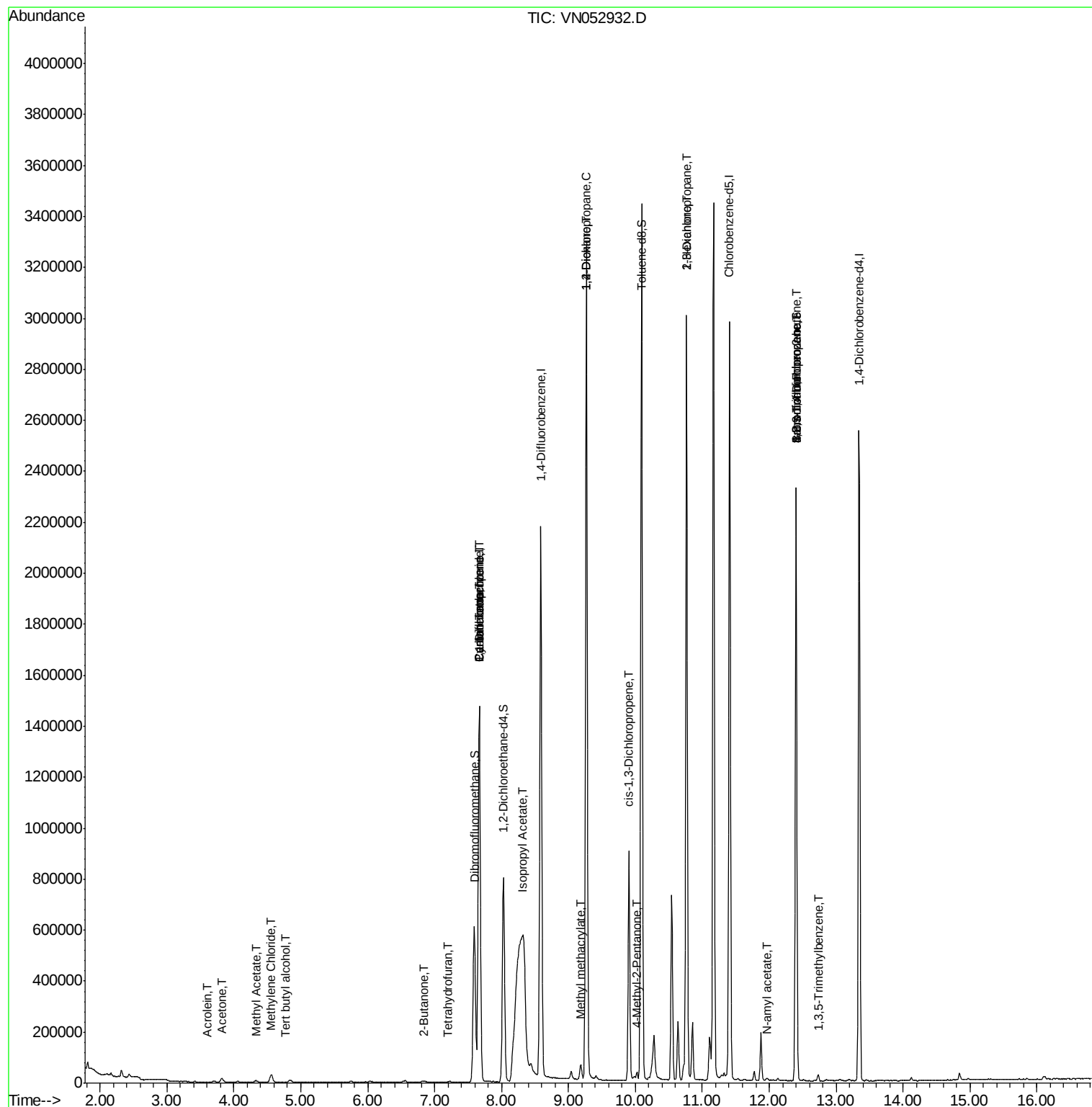
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	396	0.513	ug/l #	74
13) Acrolein	3.61	56	532	0.733	ug/l	96
16) Acetone	3.82	43	26715	8.618	ug/l	99
18) Methyl Acetate	4.33	43	11623	1.022	ug/l #	80
20) Methylene Chloride	4.56	84	22468	1.611	ug/l	99
25) 2-Butanone	6.84	43	3465	0.720	ug/l	99
29) Tetrahydrofuran	7.21	42	894	0.272	ug/l #	48
31) Cyclohexane	7.67	56	20975	0.320	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	88538	4.775	ug/l #	48
38) Carbon Tetrachloride	7.67	117	112194	6.573	ug/l #	16
43) Isopropyl Acetate	8.30	43	1251111	54.777	ug/l #	53
45) 1,2-Dichloropropane	9.26	63	3864	0.265	ug/l #	44
48) Methyl methacrylate	9.18	41	20882	2.085	ug/l #	23
49) 1,4-Dioxane	9.26	88	338	2.973	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	24715	2.360	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	169552	8.065	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	31903	1.546	ug/l #	42
59) 2-Hexanone	10.76	43	433291	60.369	ug/l #	50
71) Bromoform	12.40	173	5206	0.598	ug/l #	1
74) N-amyl acetate	11.97	43	7465	0.507	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	378351	35.734	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	10932	0.253	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	378351	114.796	ug/l #	12

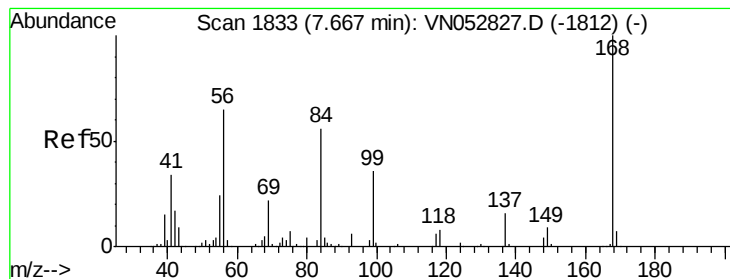
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 18 04:45:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 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: VN052932.D

Acq: 17 Dec 2018 17:24

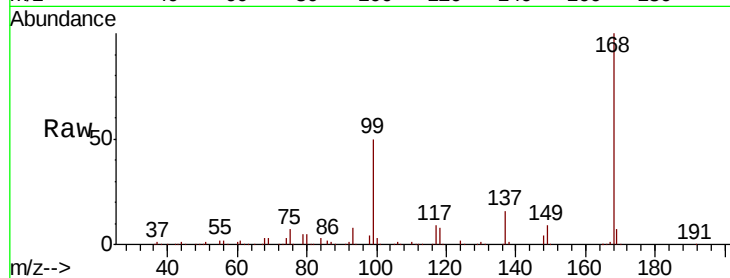
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1298122

Ion Ratio Lower Upper

168 100

99 50.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

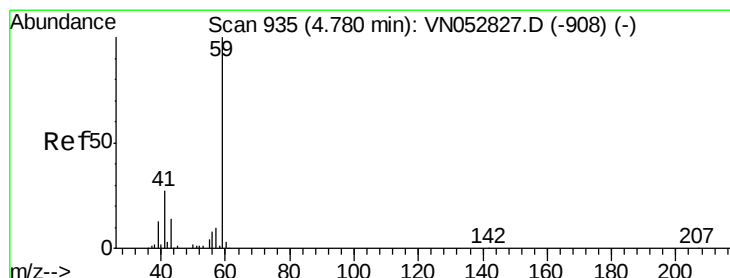
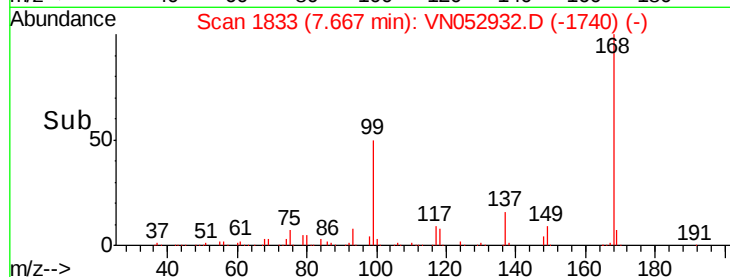
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.513 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.01 min

Lab File: VN052932.D

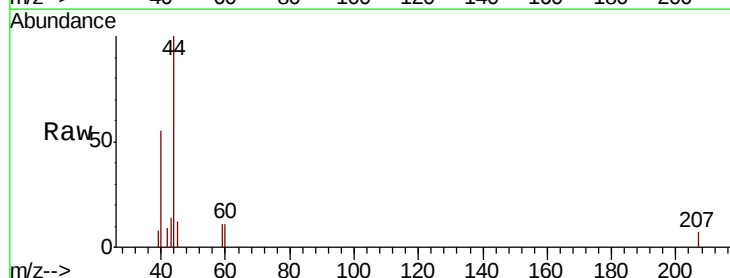
Acq: 17 Dec 2018 17:24

Tgt Ion: 59 Resp: 396

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.77

300

250

200

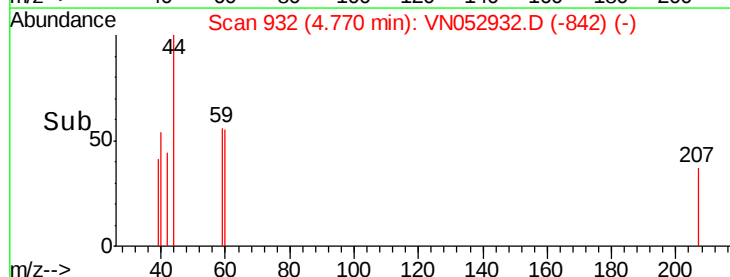
150

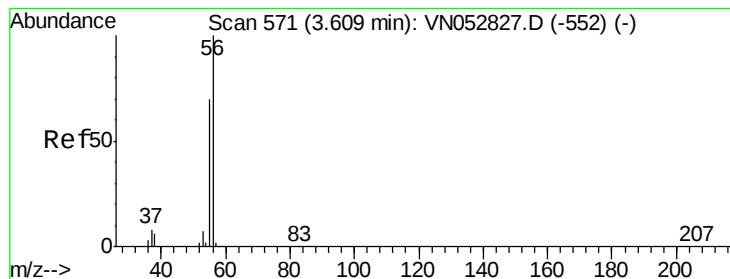
100

50

0

Time-->





#13

Acrolein

Concen: 0.733 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

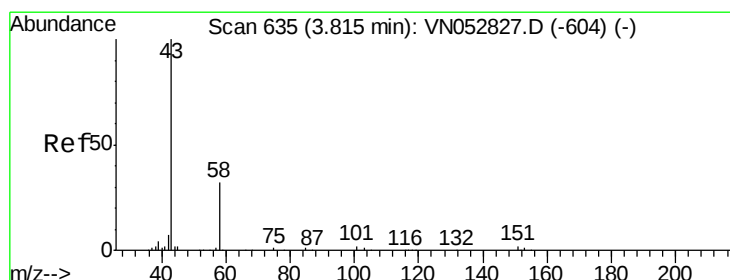
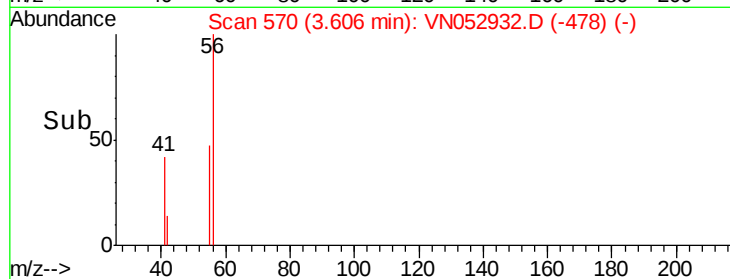
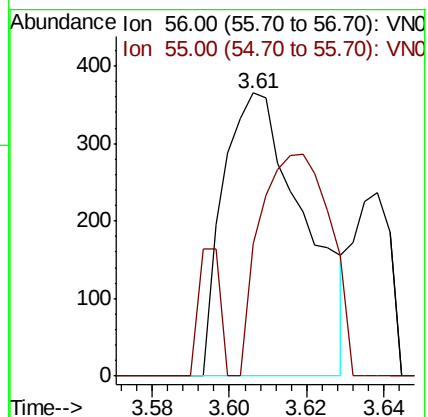
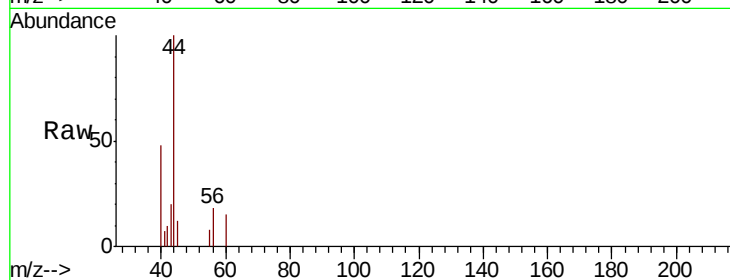
ClientSampleId :

Tot Ion: 56 Resp: 532

Ion Ratio Lower Upper

56 100

55 67.9 56.6 85.0



#16

Acetone

Concen: 8.618 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052932.D

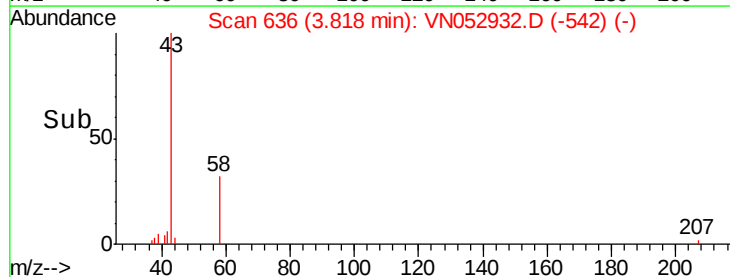
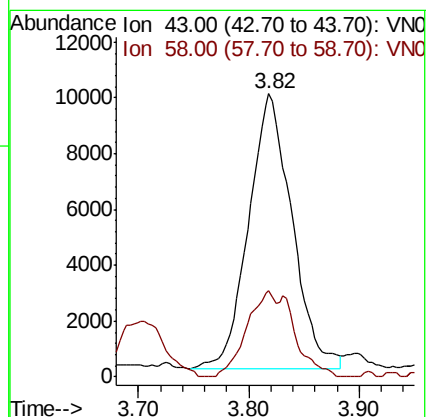
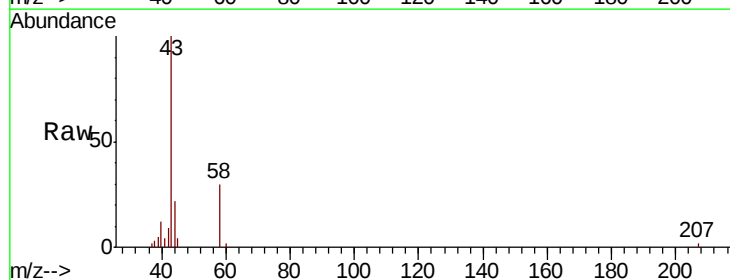
Acq: 17 Dec 2018 17:24

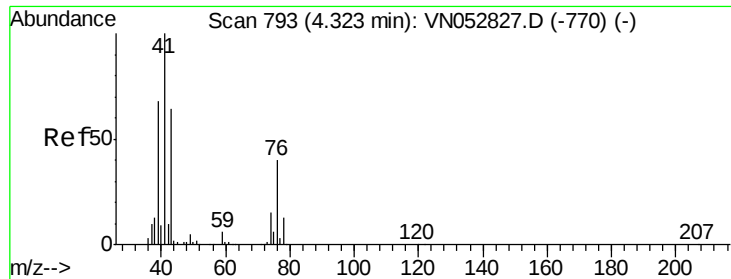
Tgt Ion: 43 Resp: 26715

Ion Ratio Lower Upper

43 100

58 31.2 25.4 38.0

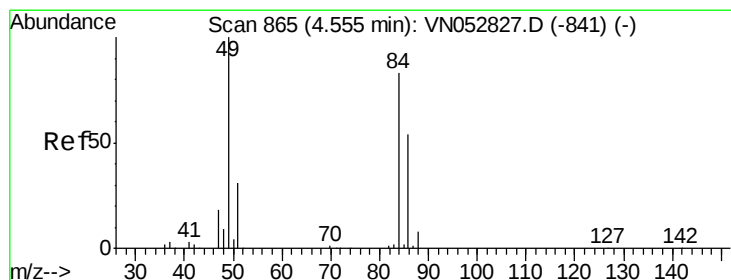
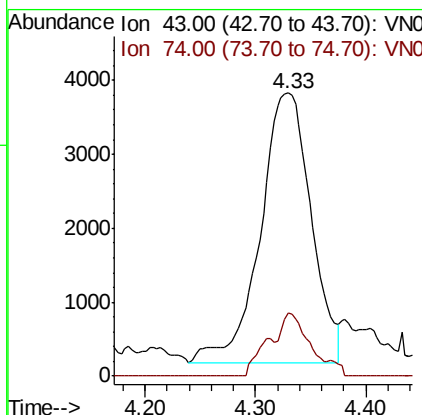
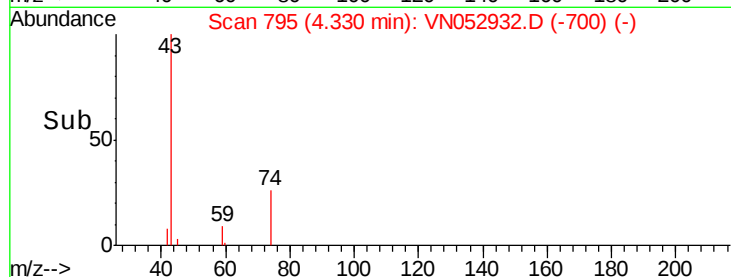
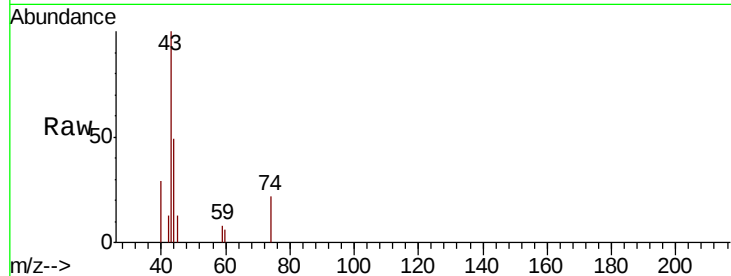




#18
Methvl Acetate
Concen: 1.022 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

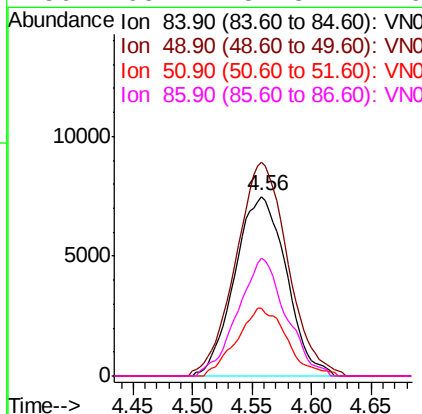
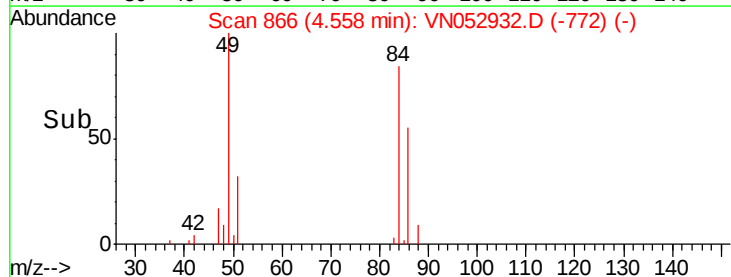
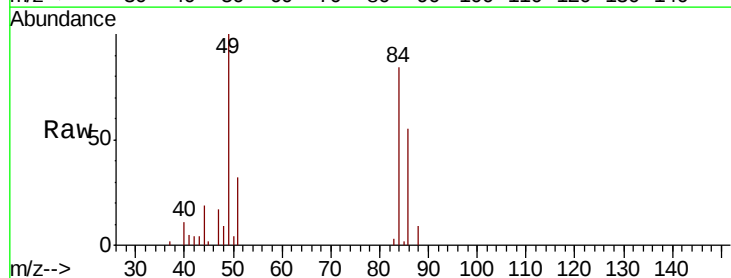
Instrument :
MSVOA_N
ClientSampleId :

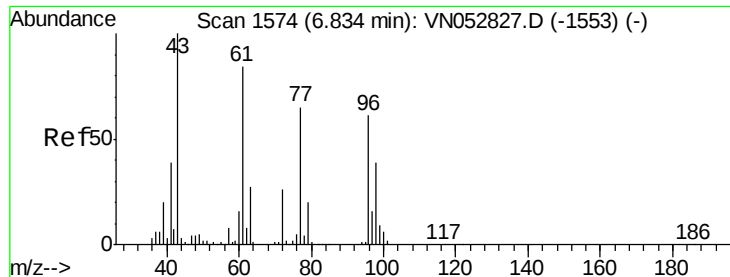
Tot Ion: 43 Resp: 11623
Ion Ratio Lower Upper
43 100
74 14.3 19.2 28.8#



#20
Methylene Chloride
Concen: 1.611 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

Tgt Ion: 84 Resp: 22468
Ion Ratio Lower Upper
84 100
49 119.1 96.8 145.2
51 37.9 29.9 44.9
86 65.7 51.8 77.6





#25

2-Butanone

Concen: 0.720 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

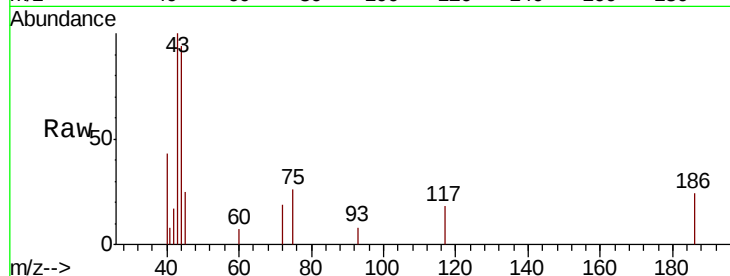
ClientSampled :

Tot Ion: 43 Resp: 3465

Ion Ratio Lower Upper

43 100

72 25.6 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

2500

2000

1500

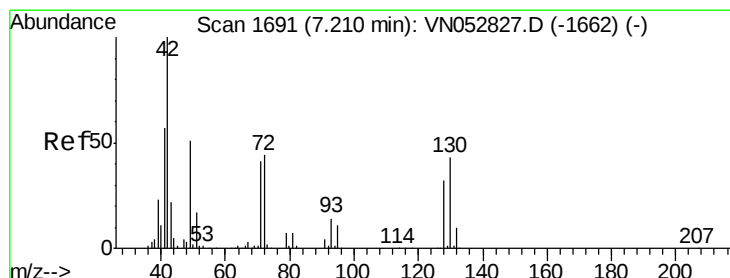
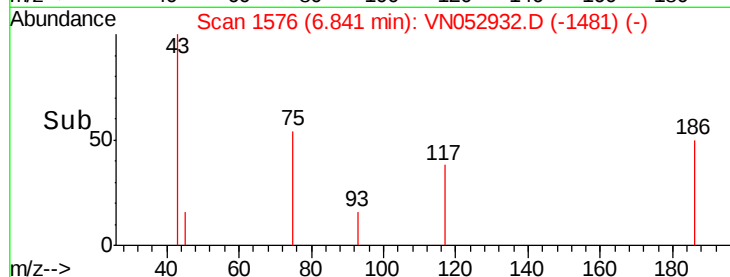
1000

500

0

6.80 6.85

Time-->



#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

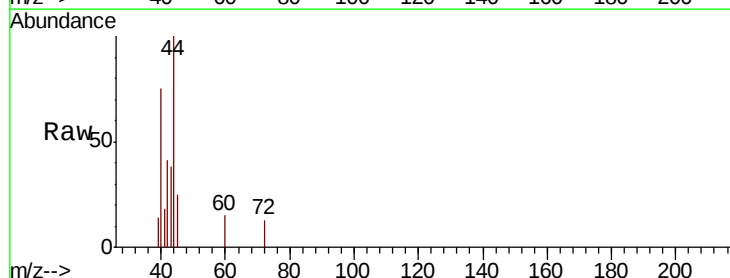
Tgt Ion: 42 Resp: 894

Ion Ratio Lower Upper

42 100

72 11.2 34.7 52.1#

71 7.3 32.3 48.5#



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

800

600

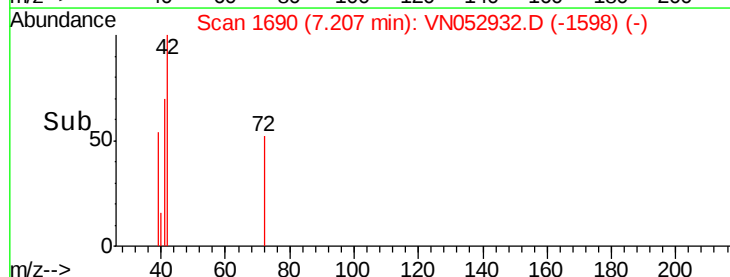
400

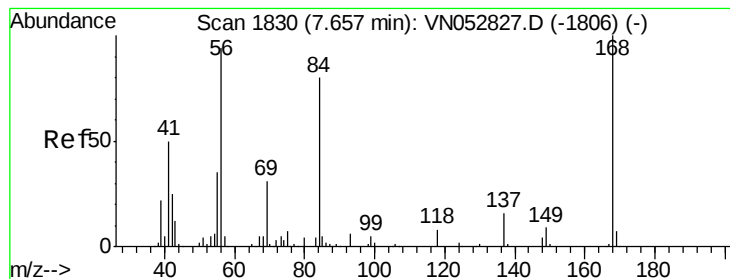
200

0

7.16 7.18 7.20 7.22

Time-->





#31

Cyclohexane

Concen: 0.320 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :
MSVOA_N
ClientSampled :

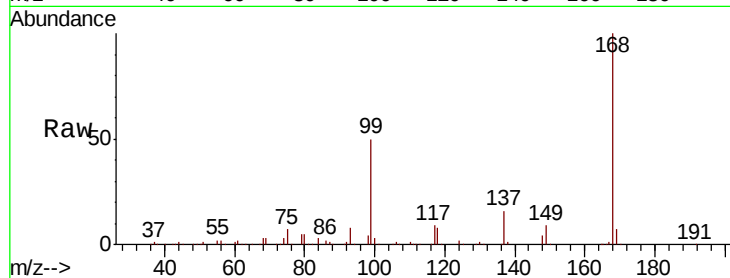
Tot Ion: 56 Resp: 20975

Ion Ratio Lower Upper

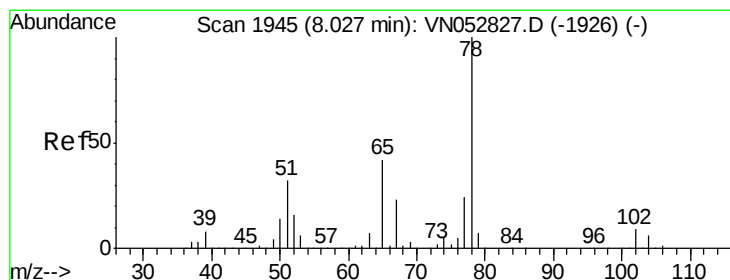
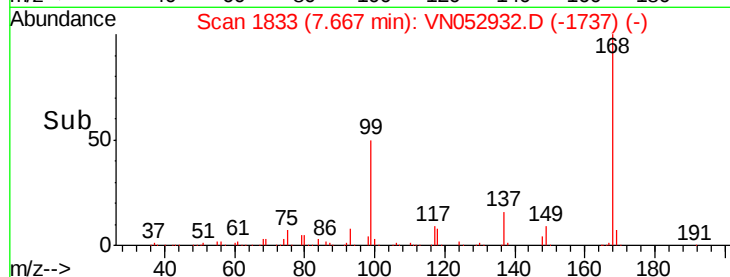
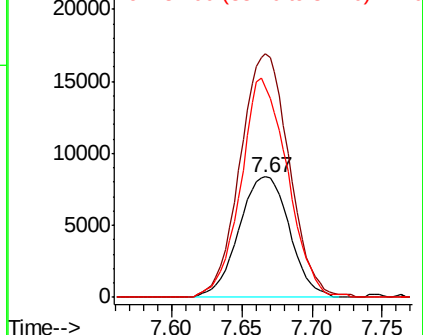
56 100

69 202.0 26.6 39.8#

84 174.3 68.4 102.6#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052932.D

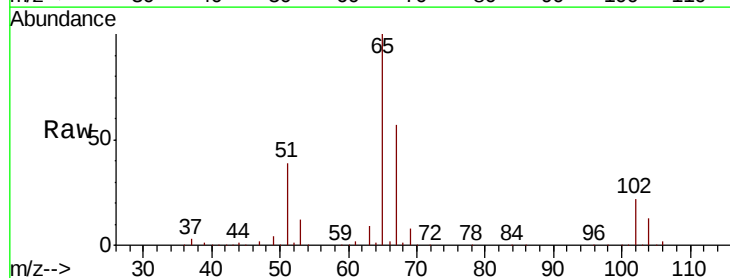
Acq: 17 Dec 2018 17:24

Tgt Ion: 65 Resp: 667252

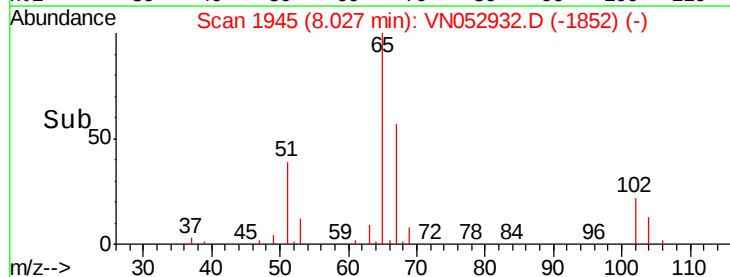
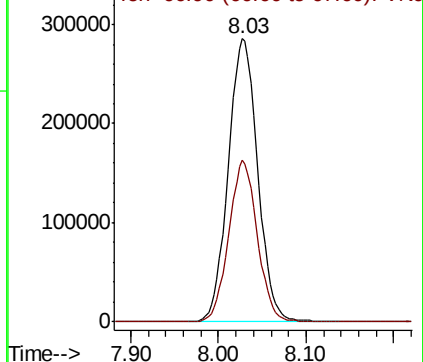
Ion Ratio Lower Upper

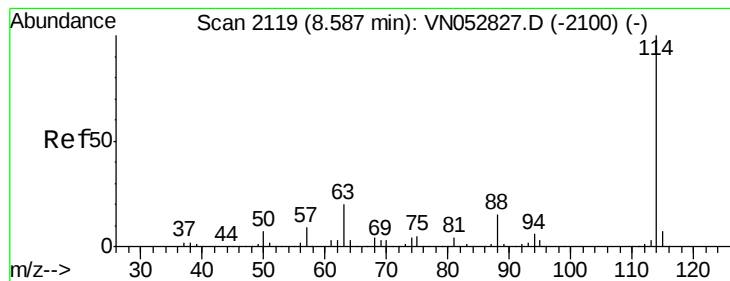
65 100

67 55.3 0.0 110.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

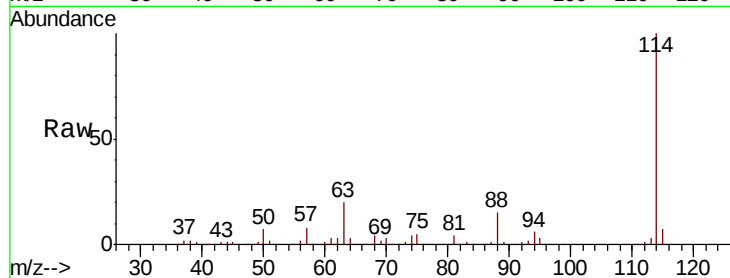
Tot Ion:114 Resp: 2013735

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.8

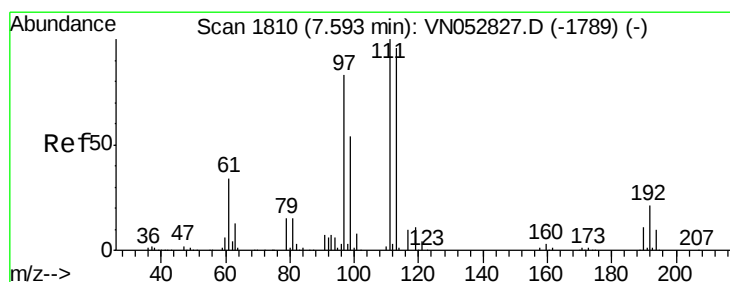
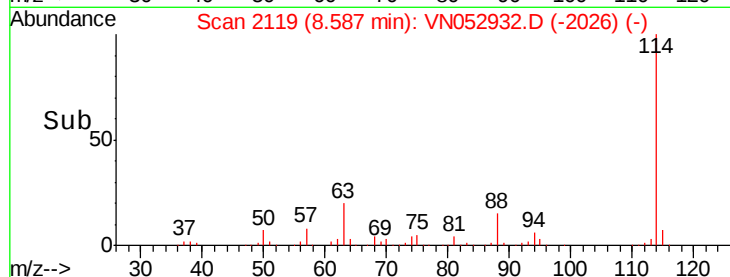
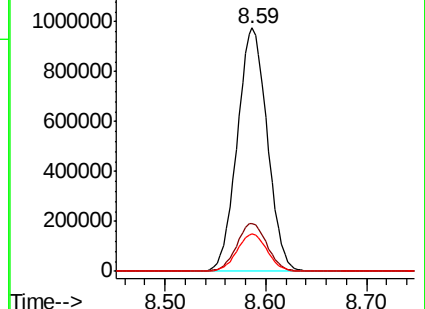
88 15.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

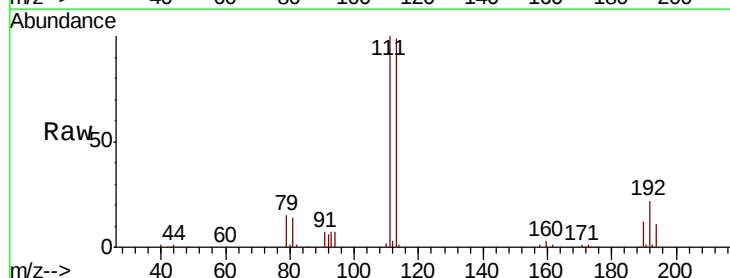
Tgt Ion:113 Resp: 464915

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.4

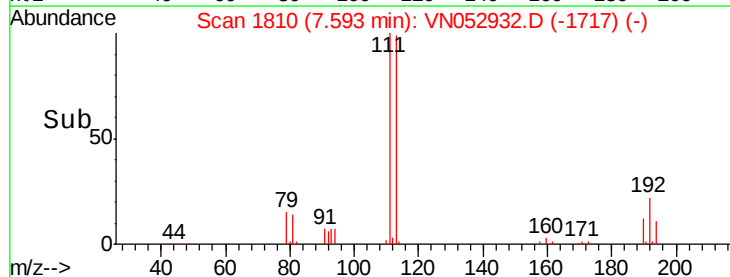
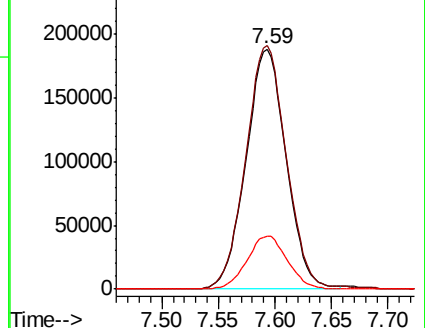
192 22.3 17.5 26.3

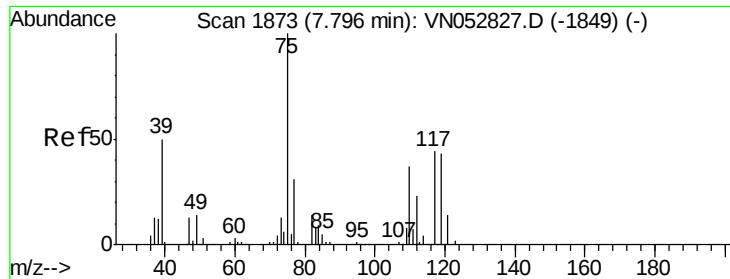


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

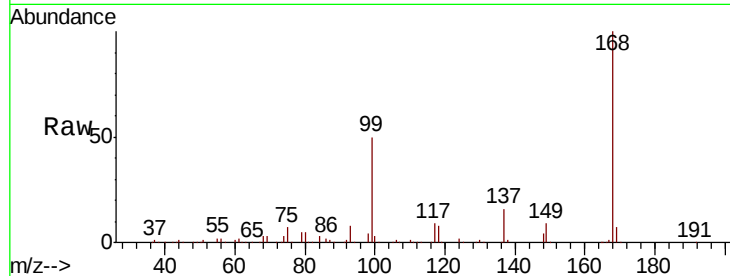




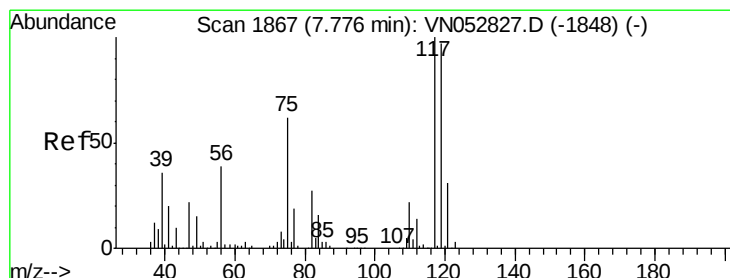
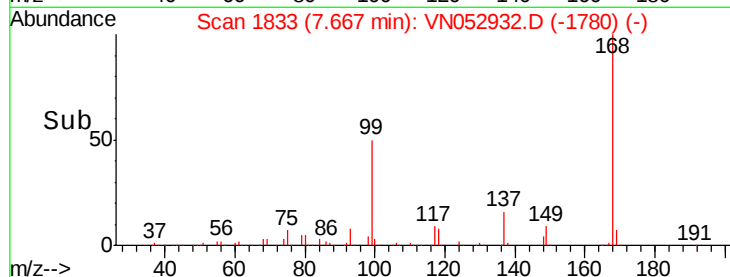
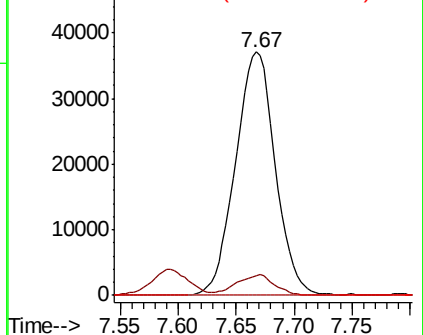
#36
 1,1-Dichloropropene
 Concen: 4.775 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052932.D
 Acq: 17 Dec 2018 17:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.2	54.6#
77	0.0	24.9	37.3#

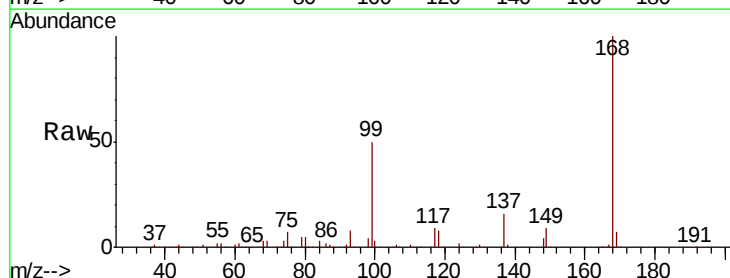


Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052827.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052827.D (-1849) (-)

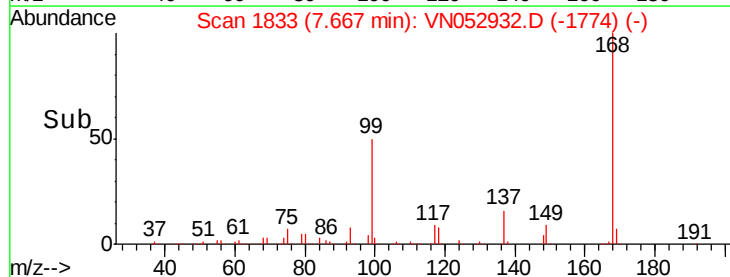
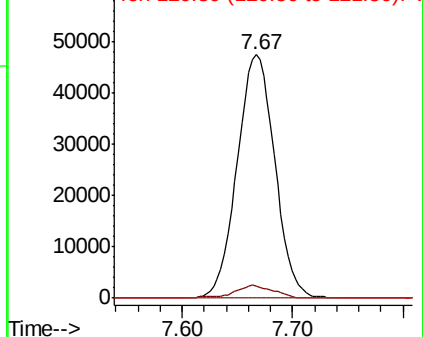


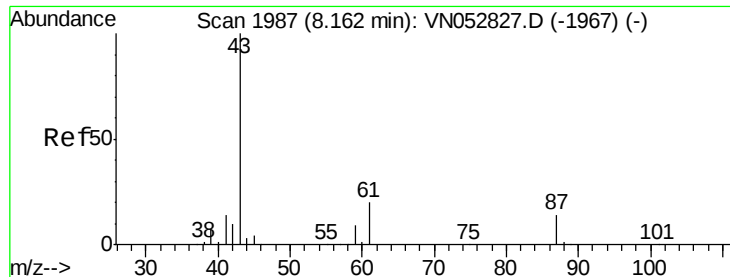
#38
 Carbon Tetrachloride
 Concen: 6.573 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052932.D
 Acq: 17 Dec 2018 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.1	115.7#
121	0.0	24.9	37.3#



Abundance Ion 116.80 (116.50 to 117.50): VN052827.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052827.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052827.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 54.777 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

ClientSampled :

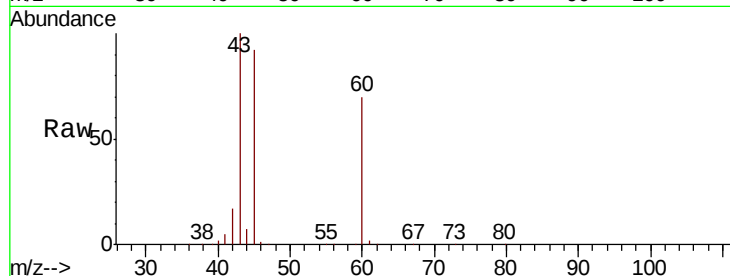
Tot Ion: 43 Resp: 1251111

Ion Ratio Lower Upper

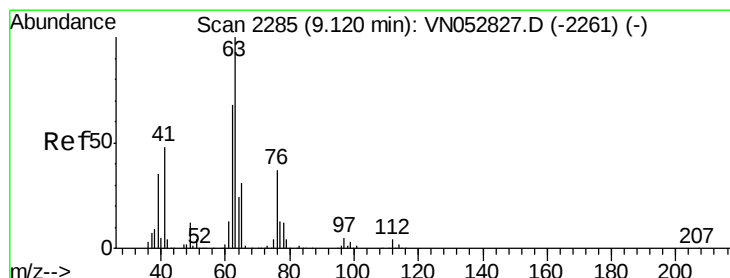
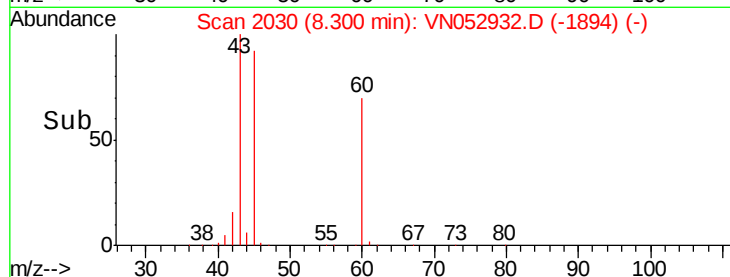
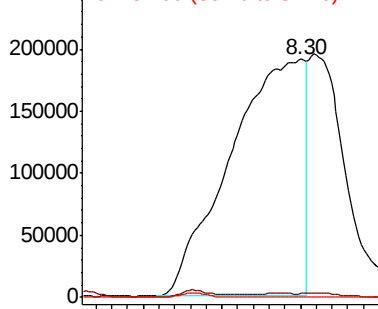
43 100

61 0.0 22.9 34.3#

87 0.0 10.6 15.8#



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: 0.265 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN052932.D

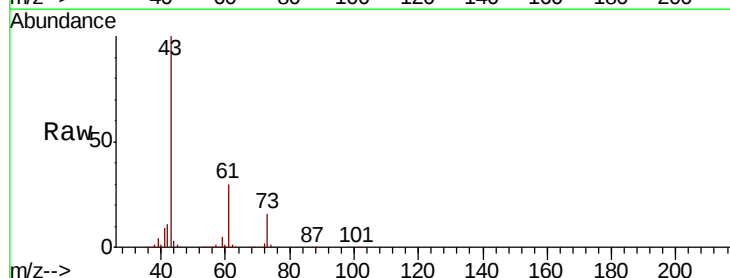
Acq: 17 Dec 2018 17:24

Tgt Ion: 63 Resp: 3864

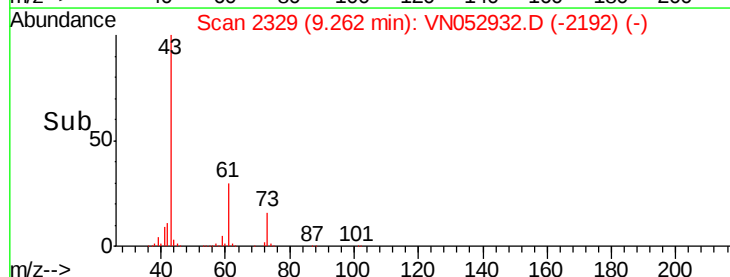
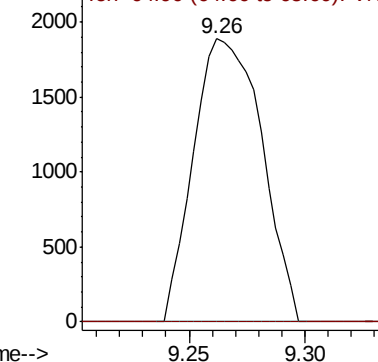
Ion Ratio Lower Upper

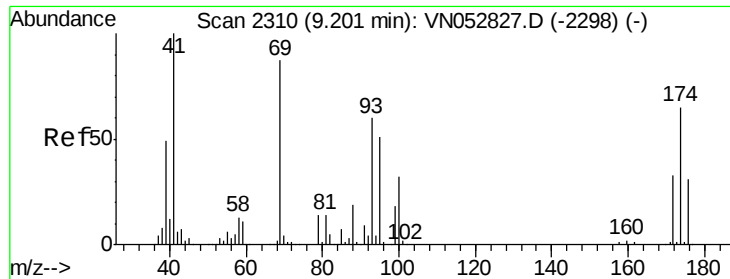
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

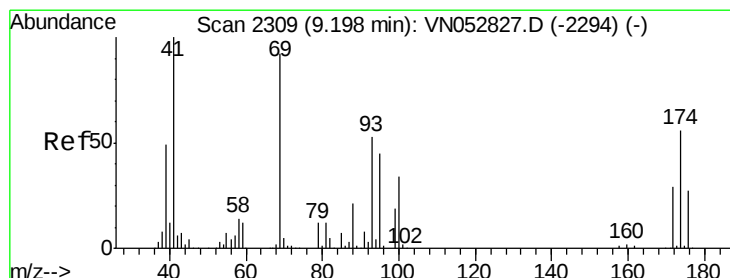
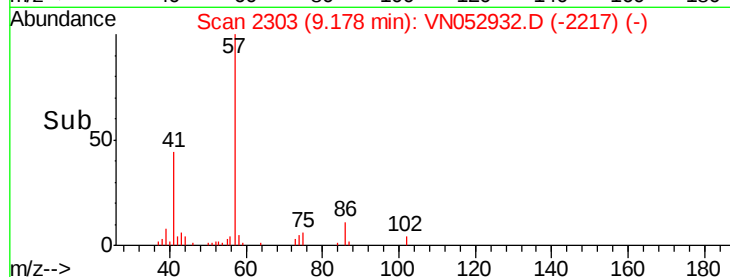
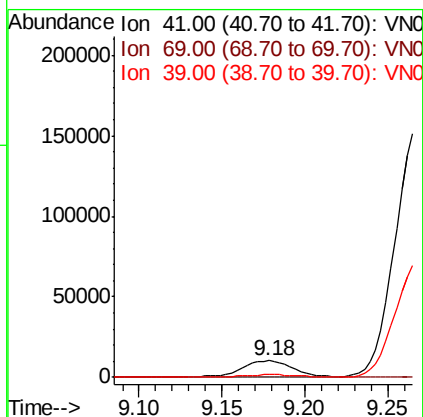
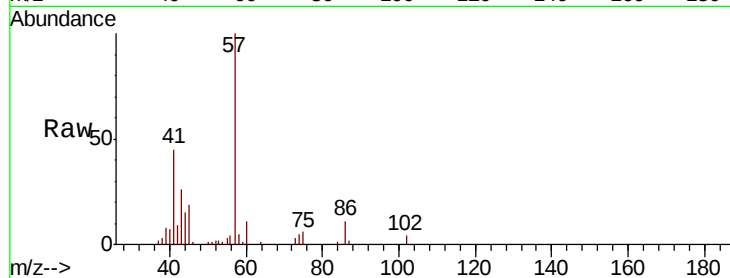




#48
Methyl methacrylate
Concen: 2.085 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

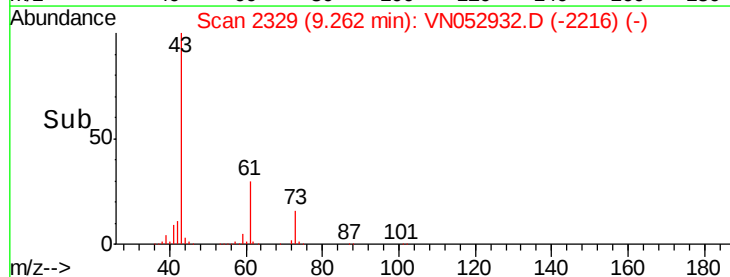
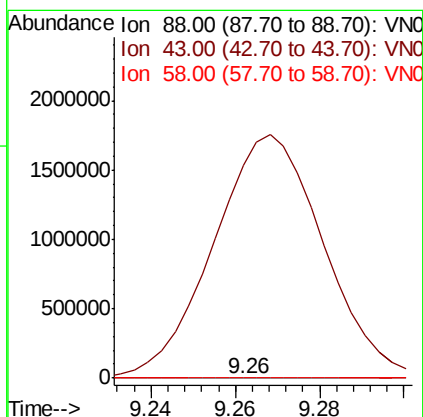
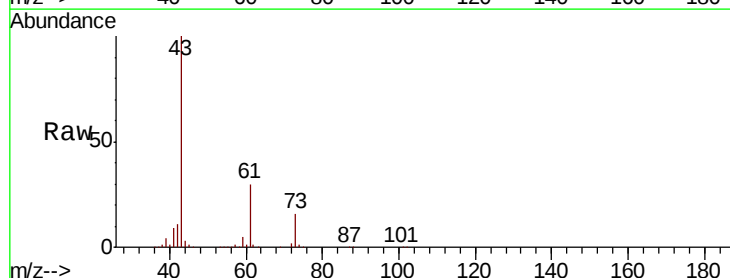
Instrument :
MSVOA_N
ClientSampleId :

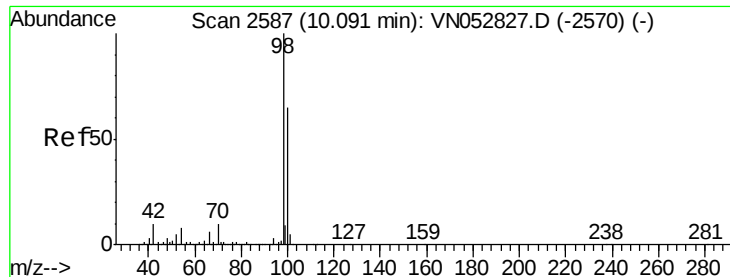
Tot Ion: 41 Resp: 20882
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 20.2 41.9 62.9#



#49
1,4-Dioxane
Concen: 2.973 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

Tgt Ion: 88 Resp: 338
Ion Ratio Lower Upper
88 100
43 945129.3 26.6 40.0#
58 3851.2 58.4 87.6#





#50

Toluene-d8

Concen: 2.973 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

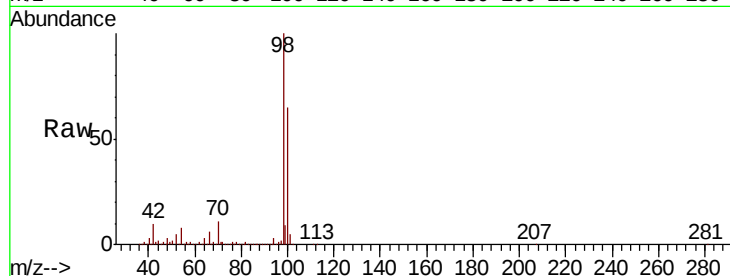
ClientSampled :

Tot Ion: 98 Resp: 2441629

Ion Ratio Lower Upper

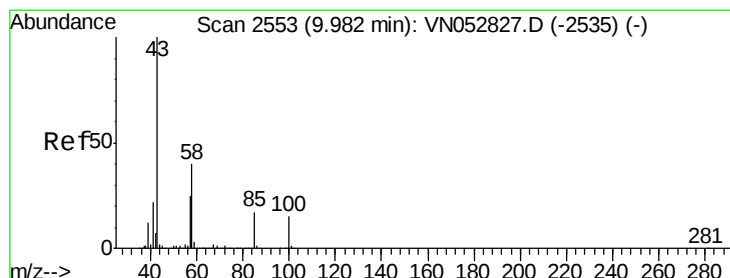
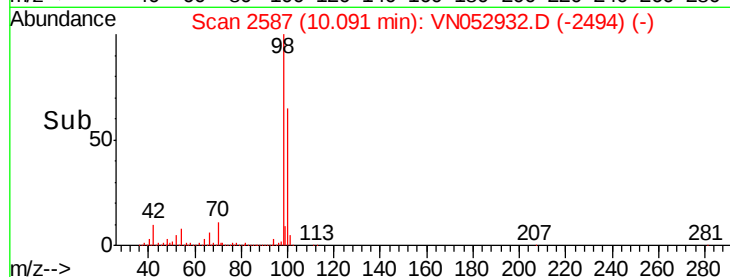
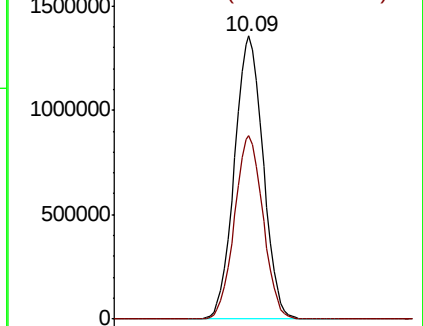
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.360 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052932.D

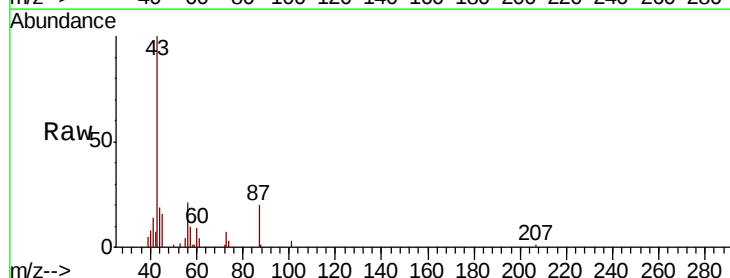
Acq: 17 Dec 2018 17:24

Tgt Ion: 43 Resp: 24715

Ion Ratio Lower Upper

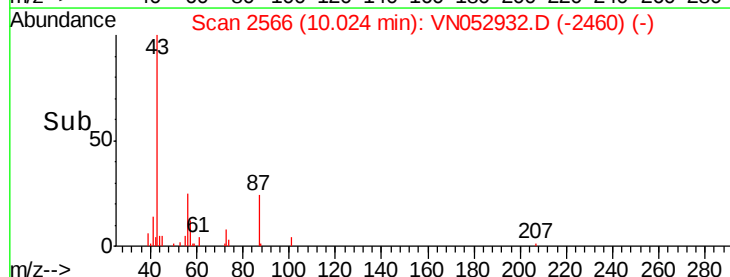
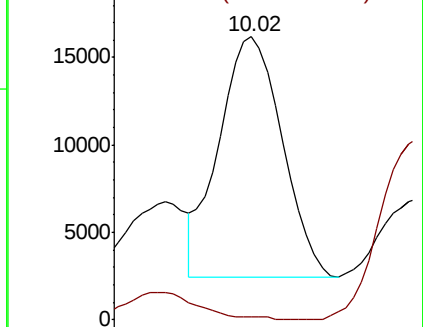
43 100

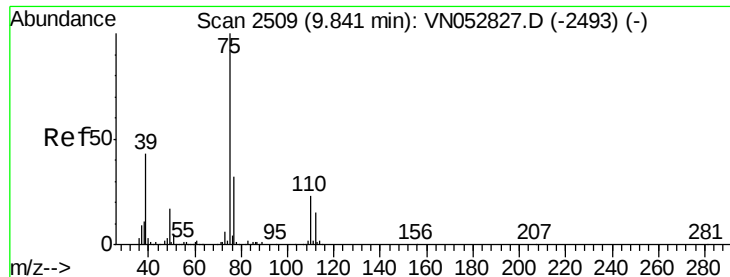
58 0.0 32.2 48.4#



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: 8.065 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

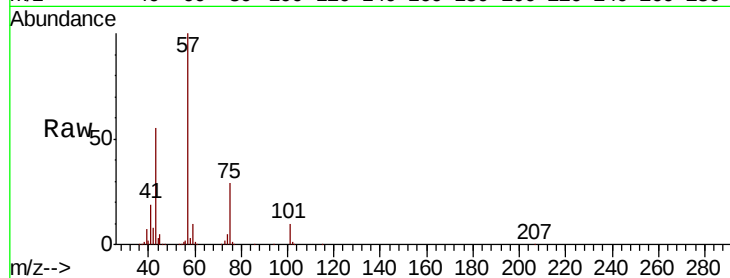
Tot Ion: 75 Resp: 169552

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

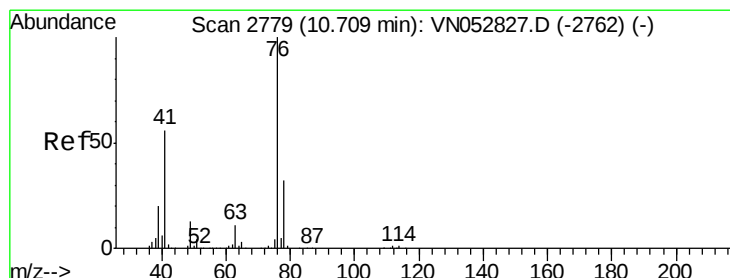
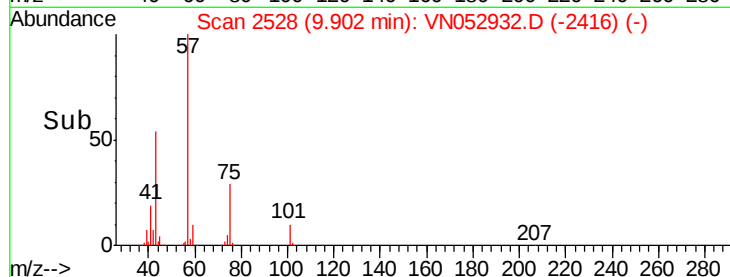
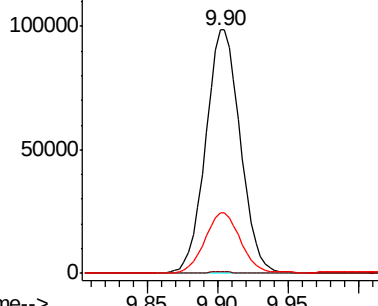
39 24.8 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN052827.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN052827.D (-2493) (-)



#57

1,3-Dichloropropane

Concen: 1.546 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052932.D

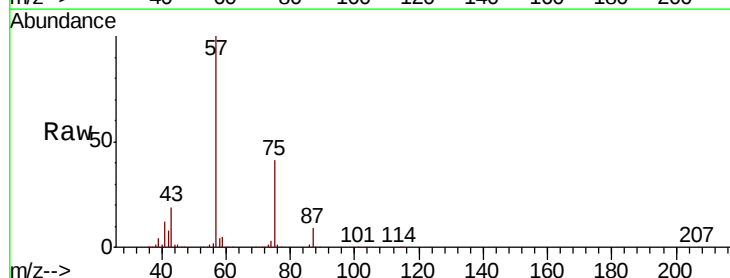
Acq: 17 Dec 2018 17:24

Tgt Ion: 76 Resp: 31903

Ion Ratio Lower Upper

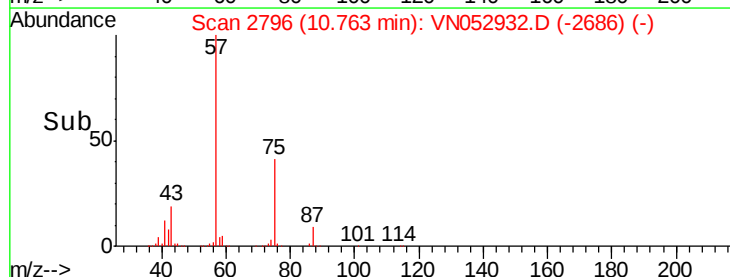
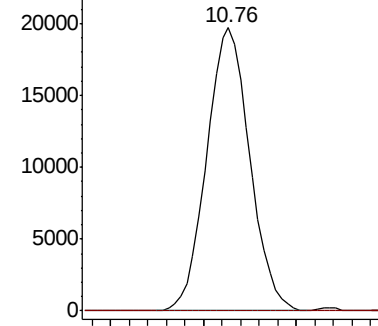
76 100

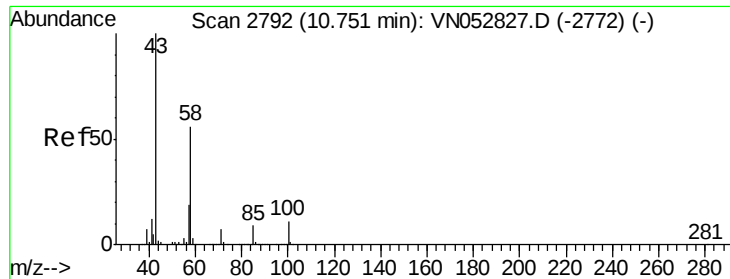
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN052827.D (-2762) (-)

Ion 77.90 (77.60 to 78.60): VN052827.D (-2762) (-)

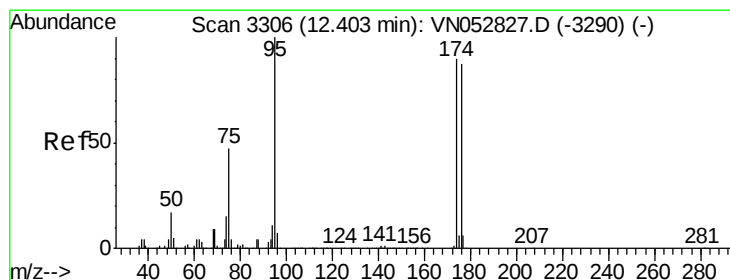
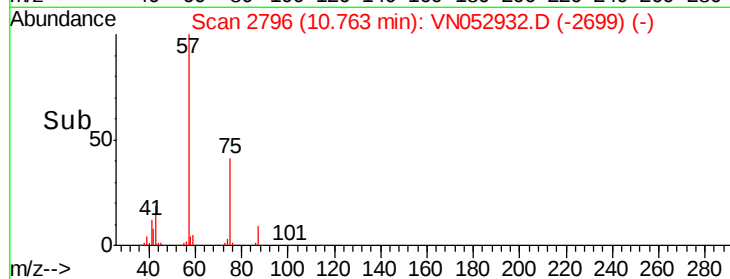
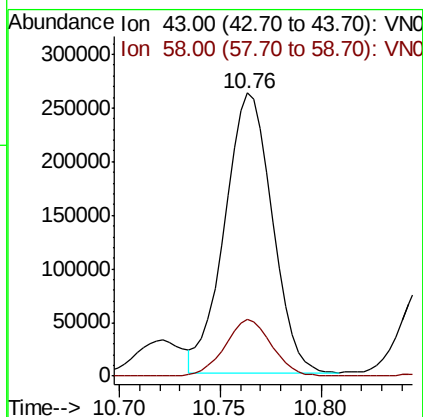
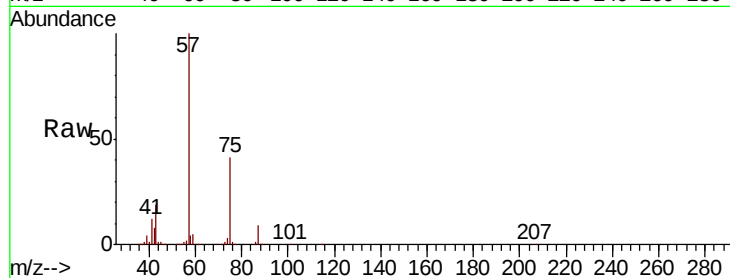




#59
2-Hexanone
Concen: 60.369 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

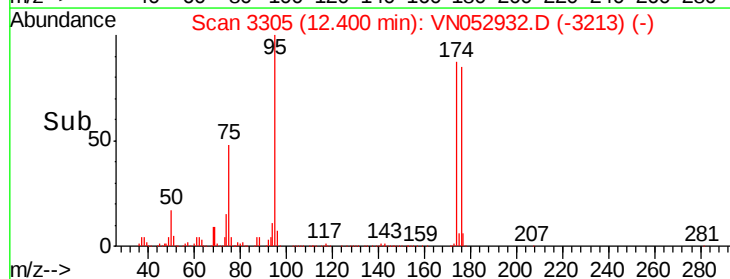
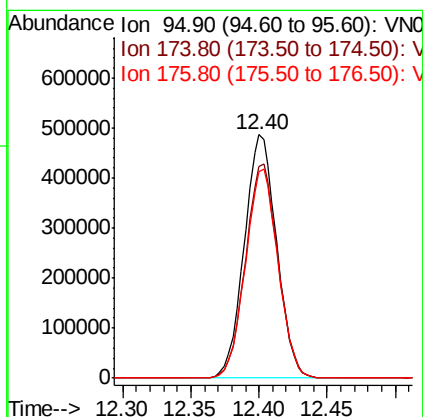
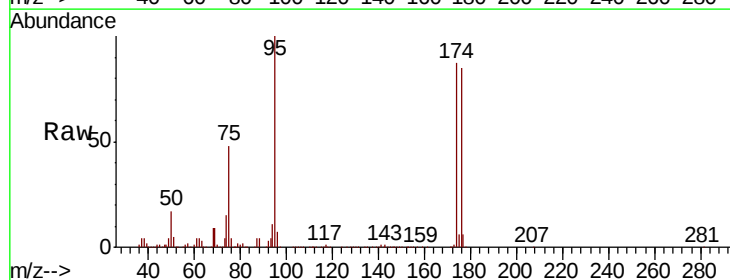
Instrument :
MSVOA_N
ClientSampleId :

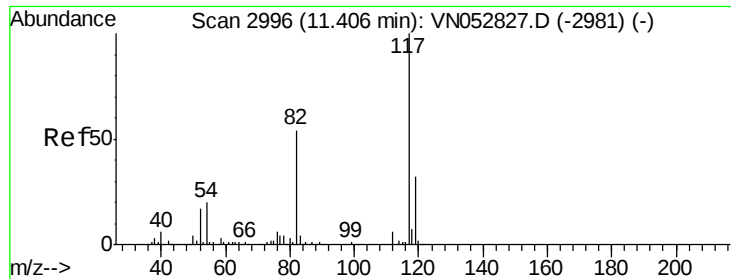
Tot Ion: 43 Resp: 433291
Ion Ratio Lower Upper
43 100
58 19.7 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

Tgt Ion: 95 Resp: 799502
Ion Ratio Lower Upper
95 100
174 88.7 0.0 178.8
176 86.4 0.0 173.8

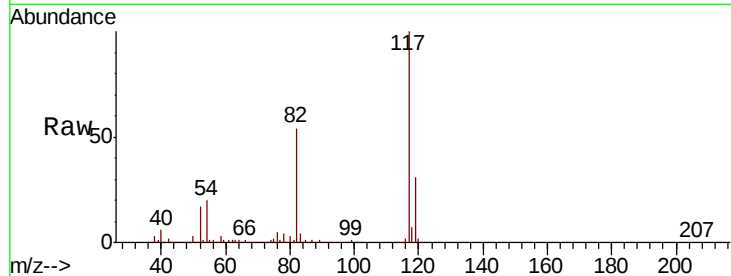




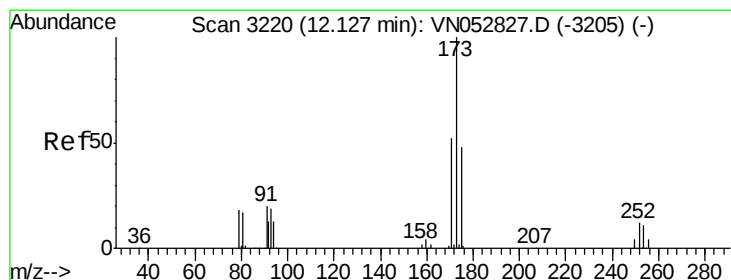
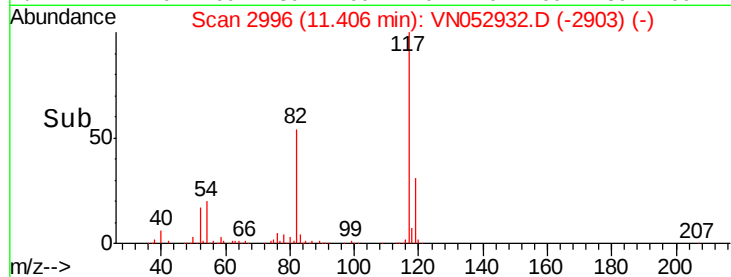
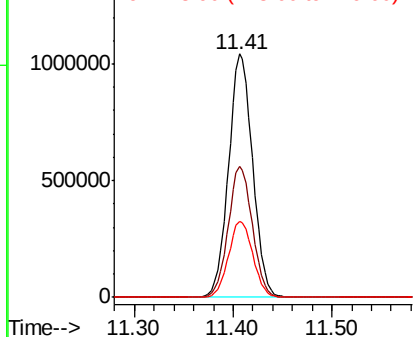
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1777396
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 31.3 25.5 38.3

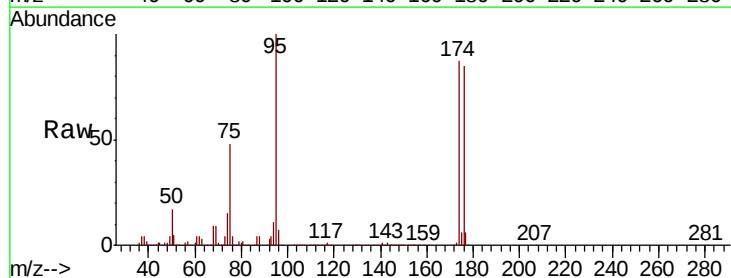


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

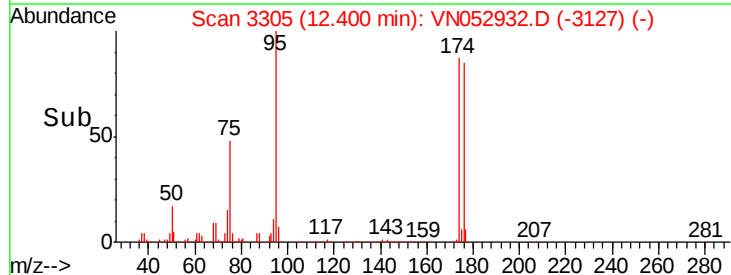
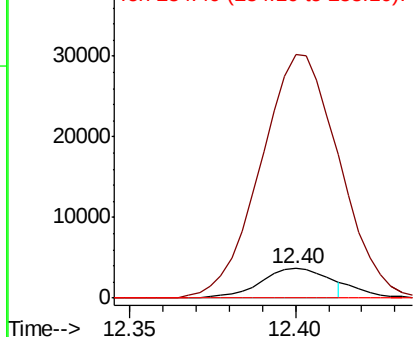


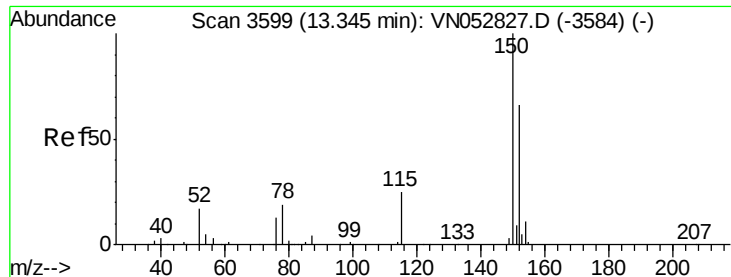
#71
Bromoform
Concen: 0.598 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052932.D
Acq: 17 Dec 2018 17:24

Tgt Ion:173 Resp: 5206
Ion Ratio Lower Upper
173 100
175 845.1 24.3 72.9#
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# 3599

Delta R.T. 0.00 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

ClientSampled :

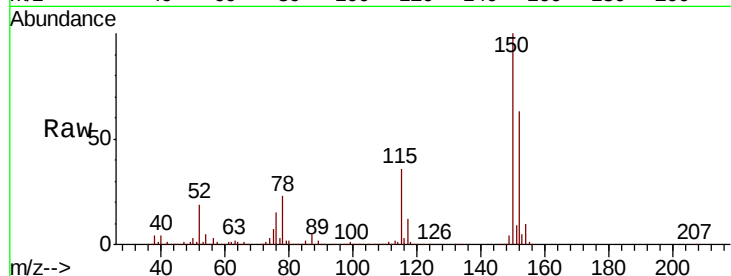
Tot Ion:152 Resp: 717637

Ion Ratio Lower Upper

152 100

115 57.0 28.3 85.0

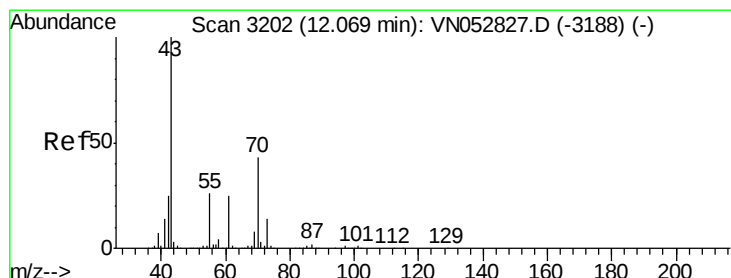
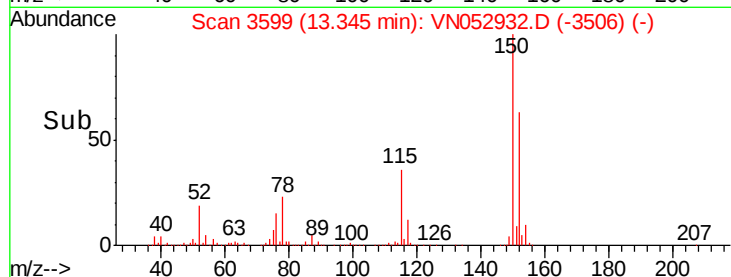
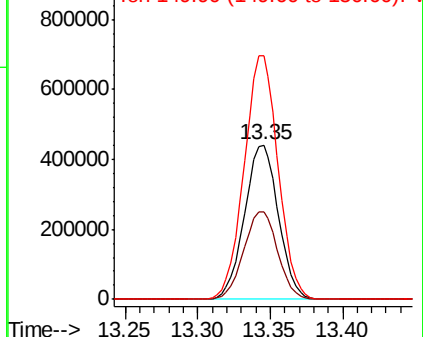
150 158.0 0.0 347.8



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: 0.507 ug/l

RT: 11.97 min Scan# 3172

Delta R.T. -0.10 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Tgt Ion: 43 Resp: 7465

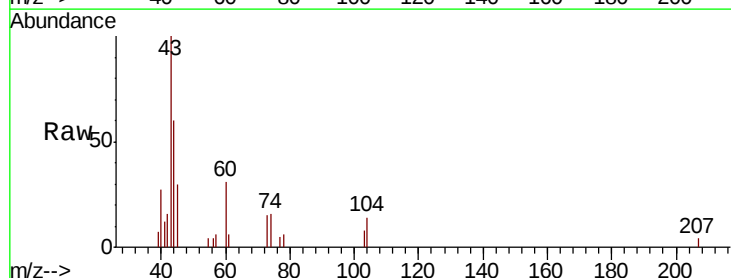
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.4#

55 3.5 20.3 30.5#

61 5.6 20.0 30.0#

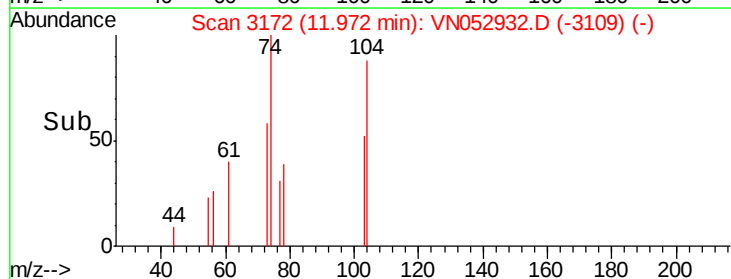
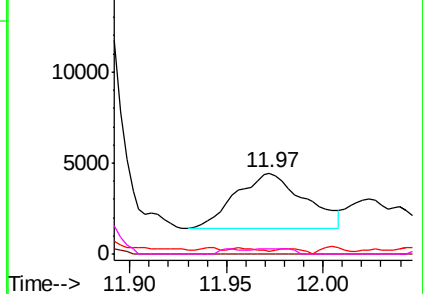


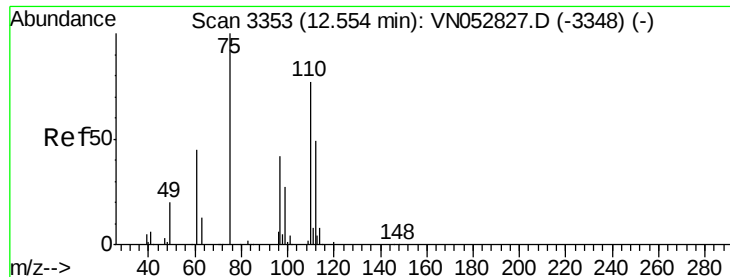
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 35.734 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

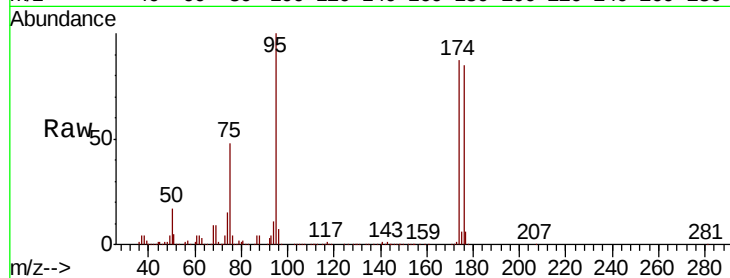
ClientSampled :

Tot Ion: 75 Resp: 378351

Ion Ratio Lower Upper

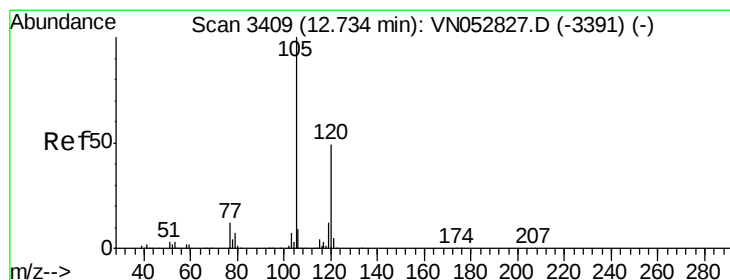
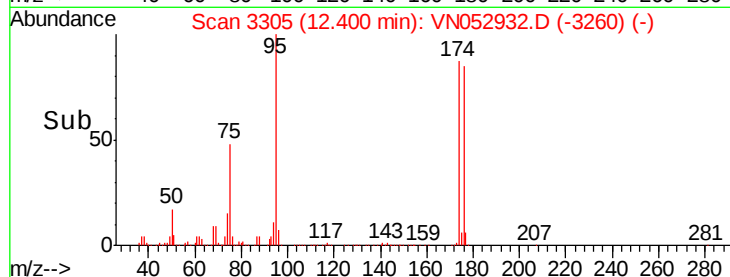
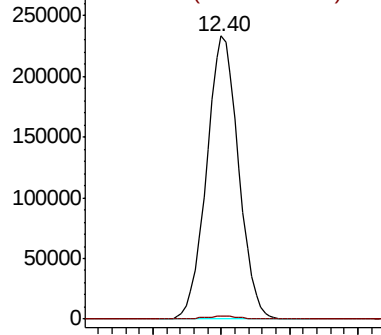
75 100

77 1.2 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: 0.253 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052932.D

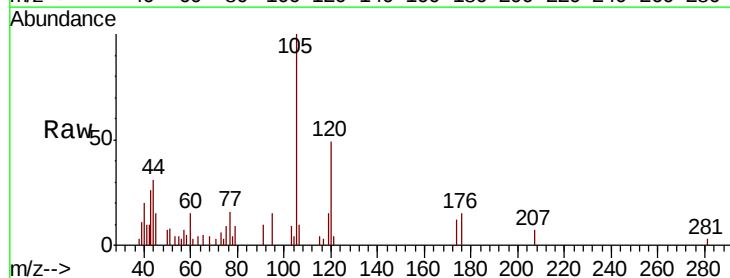
Acq: 17 Dec 2018 17:24

Tgt Ion: 105 Resp: 10932

Ion Ratio Lower Upper

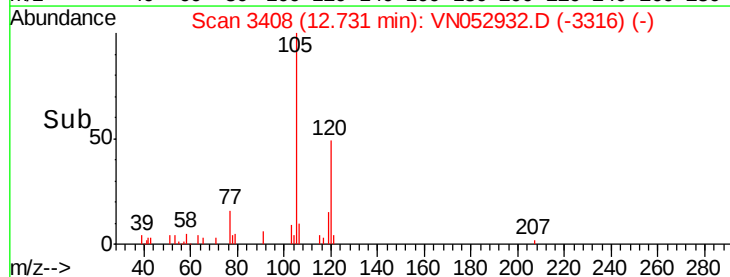
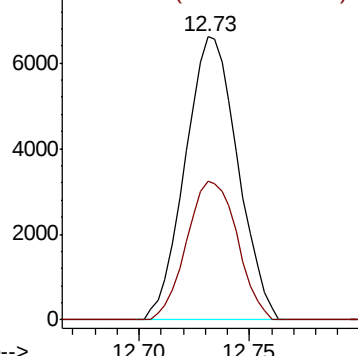
105 100

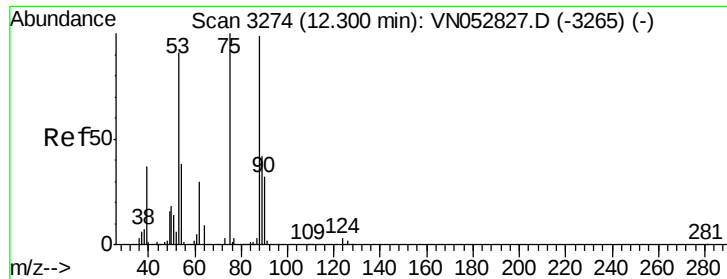
120 47.2 24.4 73.2



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: 114.796 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052932.D

Acq: 17 Dec 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 378351

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

