

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049595.D
 Acq On : 28 Jun 2018 17:34
 Operator : MD\SY
 Sample : J3677-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 01:40:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1074182	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1721118	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1408397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	558833	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	716758	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
35) Dibromofluoromethane	7.59	113	640473	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	
50) Toluene-d8	10.09	98	2293598	43.26	ug/l	0.00
Spiked Amount			Recovery	=	86.52%	
62) 4-Bromofluorobenzene	12.40	95	655277	37.38	ug/l	0.00
Spiked Amount			Recovery	=	74.76%	

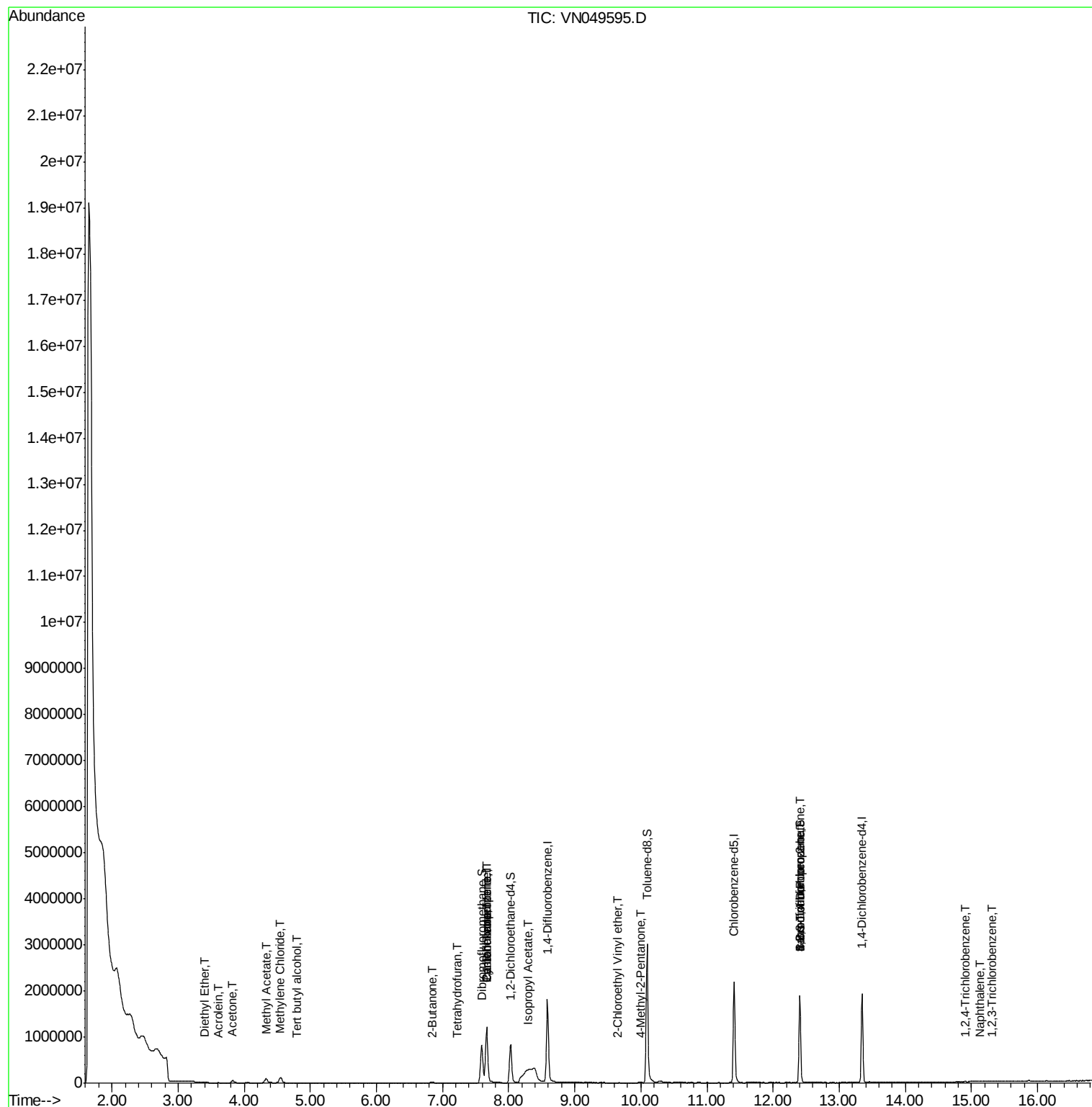
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	7870	1.06	ug/l	92
11) Tert butyl alcohol	4.81	59	557	0.67	ug/l #	70
13) Acrolein	3.61	56	2643	3.01	ug/l #	35
16) Acetone	3.82	43	78886	22.80	ug/l	90
18) Methyl Acetate	4.33	43	173639	16.46	ug/l	91
20) Methylene Chloride	4.55	84	89852	6.22	ug/l	90
25) 2-Butanone	6.85	43	8746	1.88	ug/l	98
29) Tetrahydrofuran	7.22	42	2431	0.81	ug/l #	62
31) Cyclohexane	7.67	56	20221	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	72632	3.68	ug/l #	51
38) Carbon Tetrachloride	7.67	117	97390	4.77	ug/l #	17
43) Isopropyl Acetate	8.29	43	509096	24.85	ug/l #	64
51) 4-Methyl-2-Pentanone	9.99	43	6075	0.57	ug/l #	77
58) 2-Chloroethyl Vinyl ether	9.64	63	62	14.34	ug/l #	51
71) Bromoform	12.41	173	5107	0.58	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.43	83	106	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	319098	33.47	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	319098	105.77	ug/l #	9
90) Hexachloroethane	13.89	117	125	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.92	180	704	4.81	ug/l #	81
94) Hexachlorobutadiene	15.01	225	128	Below Cal	#	18
95) Naphthalene	15.14	128	2489	2.24	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.32	180	730	3.53	ug/l	90

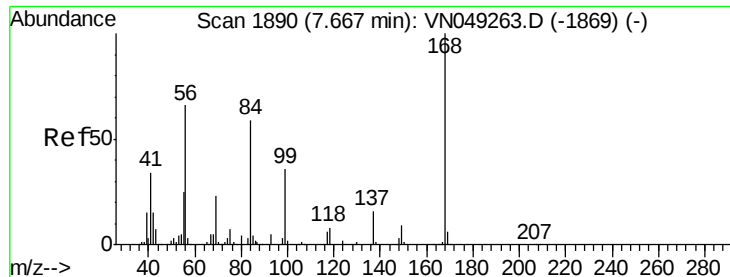
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
Data File : VN049595.D
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Instrument :
MSVOA_N
ClientSampled :

Quant Time: Jun 29 01:40:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

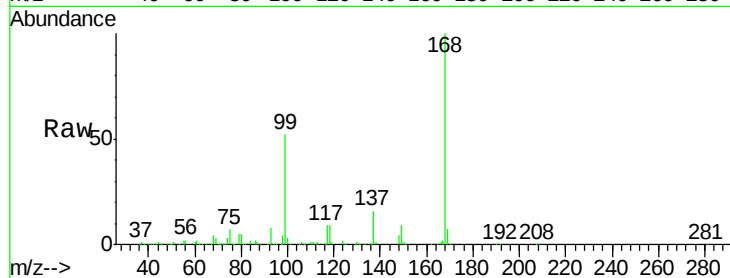
ClientSampleId :

Tot Ion:168 Resp: 1074182

Ion Ratio Lower Upper

168 100

99 51.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049263.D (-1869) (-)

Ion 98.90 (98.60 to 99.60): VN049263.D (-1869) (-)

7.67

400000

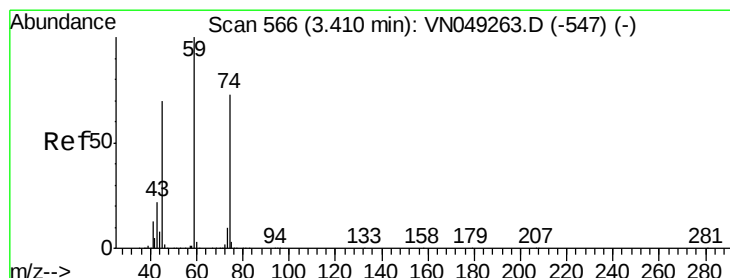
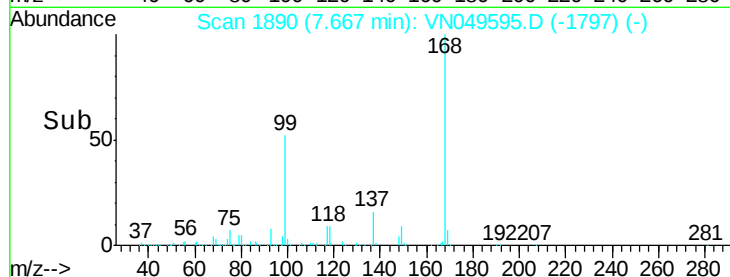
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.06 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049595.D

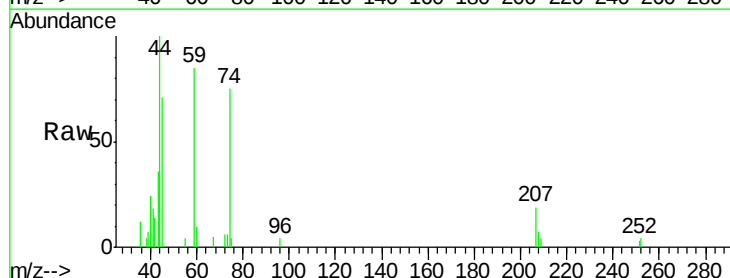
Acq: 28 Jun 2018 17:34

Tgt Ion: 74 Resp: 7870

Ion Ratio Lower Upper

74 100

45 111.7 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VN049263.D (-547) (-)

Ion 45.00 (44.70 to 45.70): VN049263.D (-547) (-)

3.41

4000

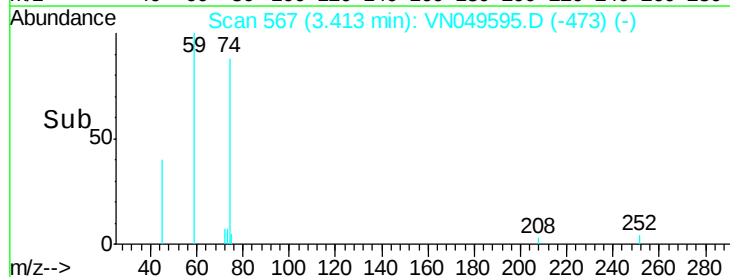
3000

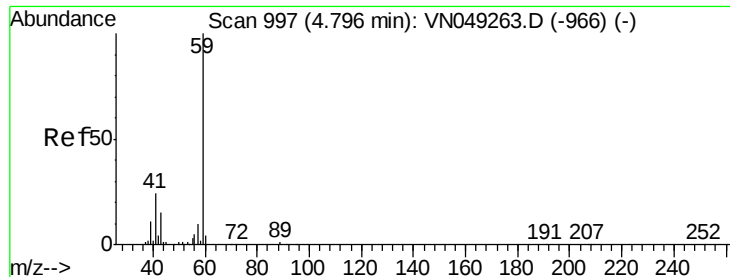
2000

1000

0

Time-->

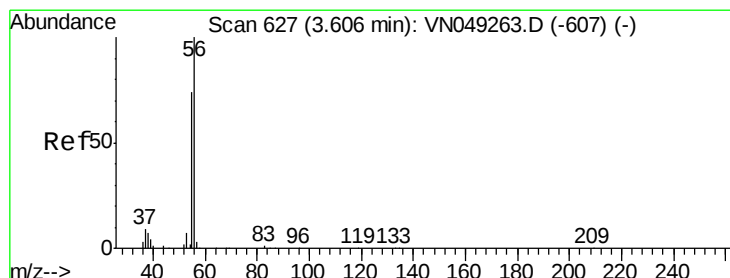
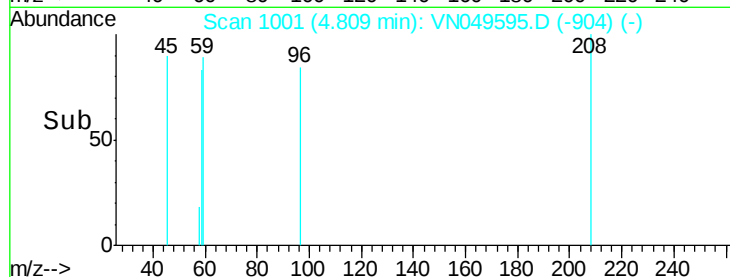
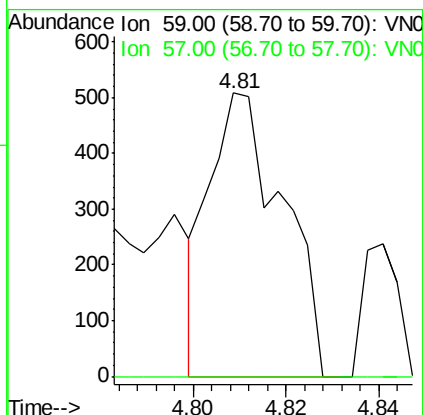
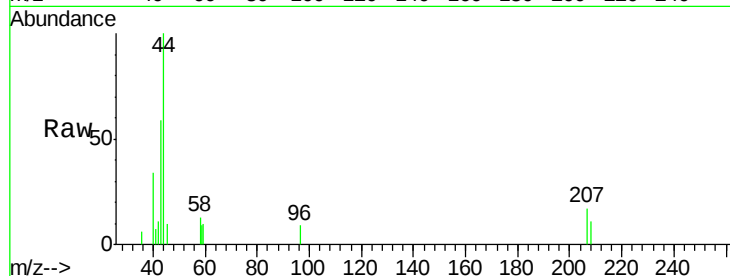




#11
Tert butyl alcohol
Concen: 0.67 ug/l
RT: 4.81 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

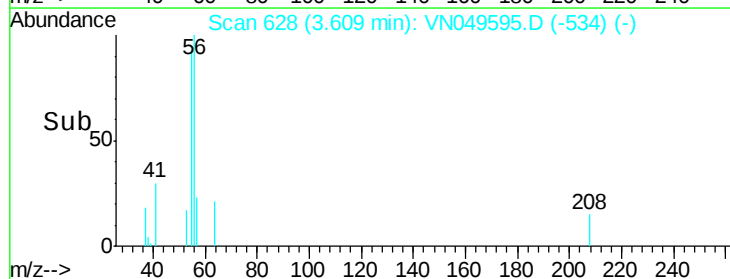
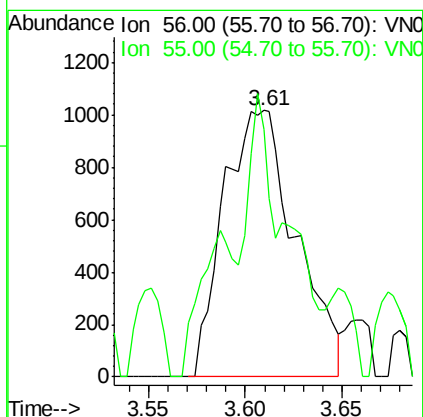
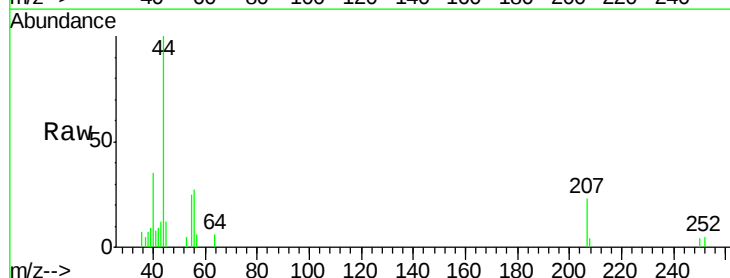
Instrument :
MSVOA_N
ClientSampled :

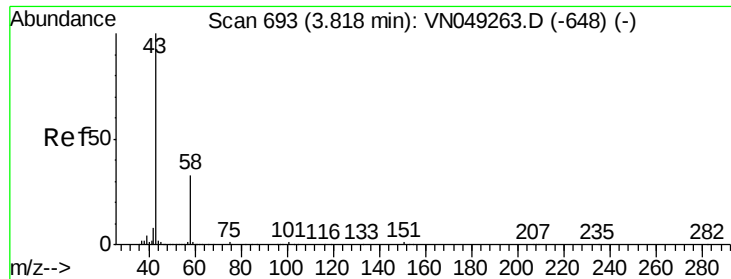
Tot Ion: 59 Resp: 557
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#13
Acrolein
Concen: 3.01 ug/l
RT: 3.61 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

Tgt Ion: 56 Resp: 2643
Ion Ratio Lower Upper
56 100
55 17.4 57.1 85.7#

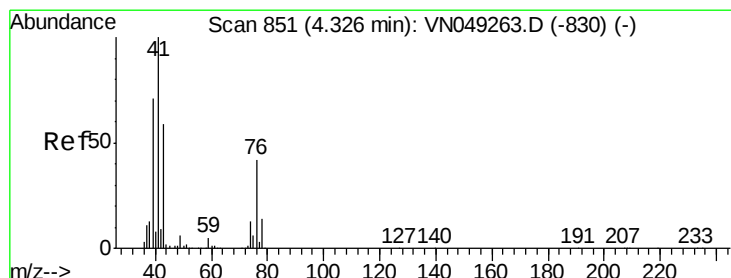
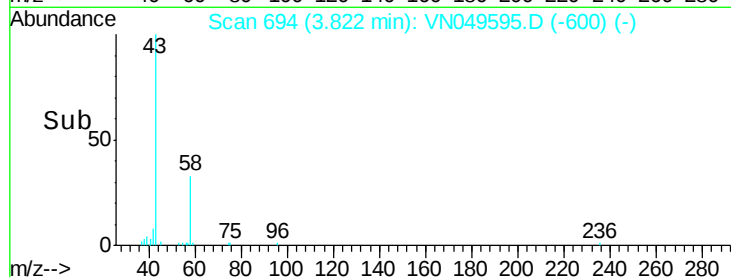
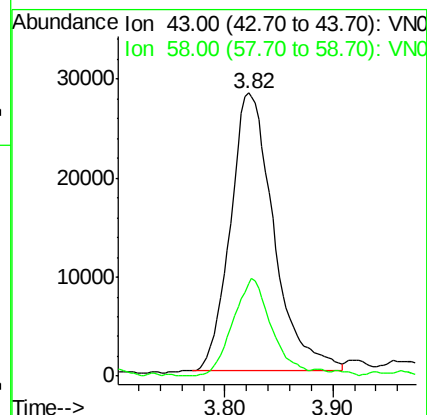
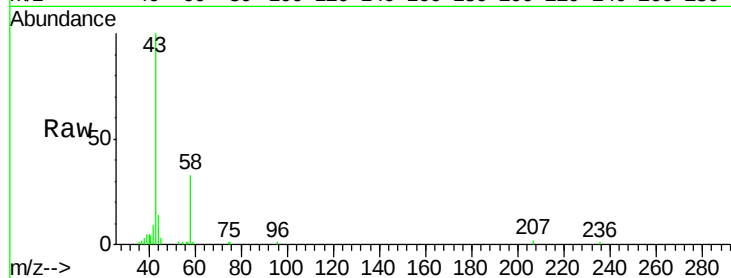




#16
Acetone
Concen: 22.80 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

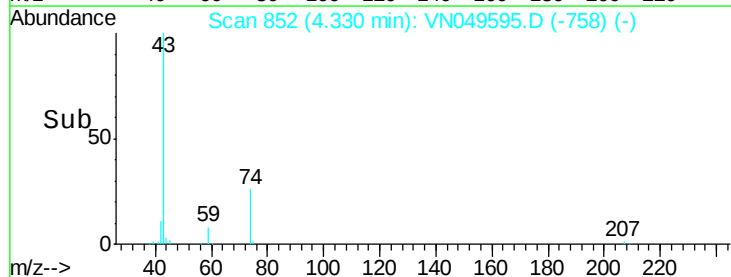
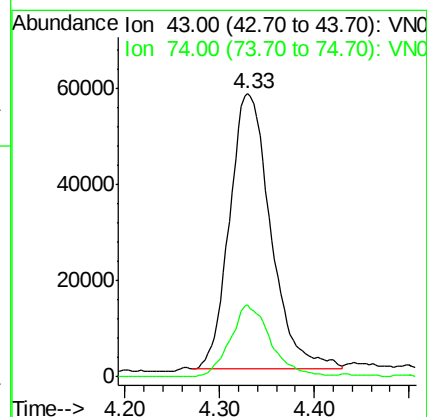
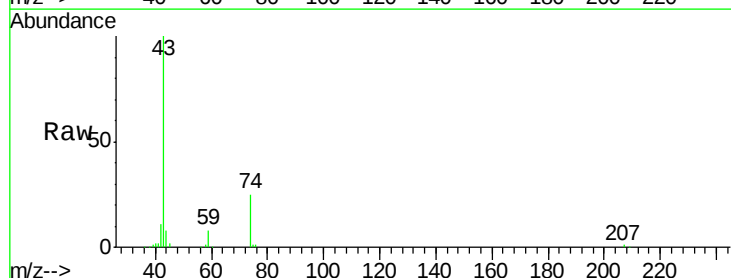
Instrument :
MSVOA_N
ClientSampleId :

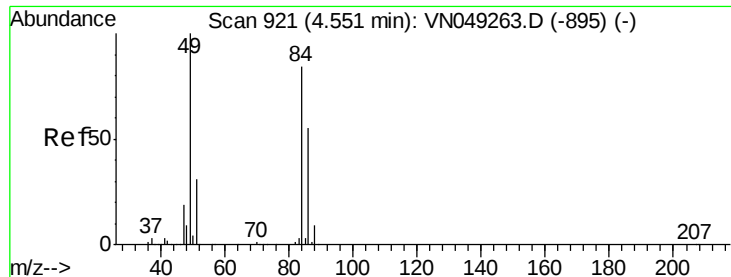
Tot Ion: 43 Resp: 78886
Ion Ratio Lower Upper
43 100
58 33.2 22.4 33.6



#18
Methyl Acetate
Concen: 16.46 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

Tgt Ion: 43 Resp: 173639
Ion Ratio Lower Upper
43 100
74 25.9 17.4 26.0

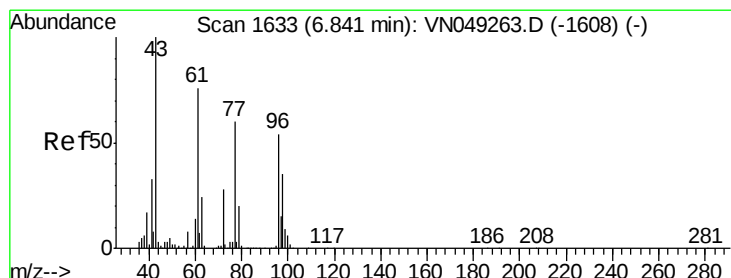
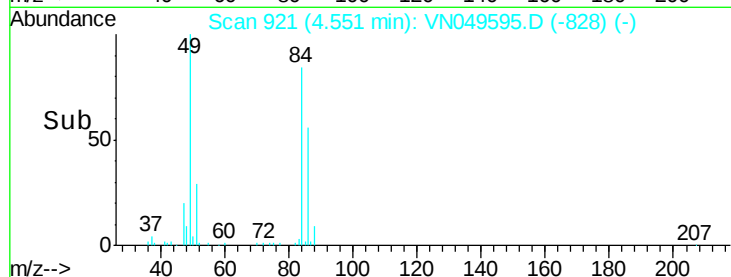
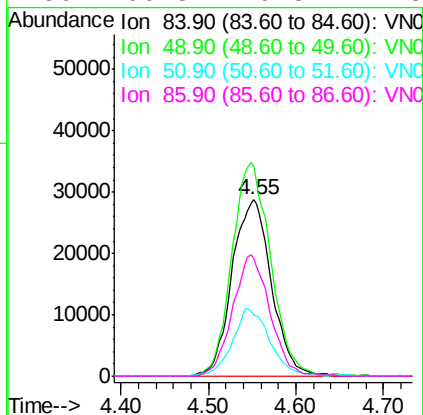
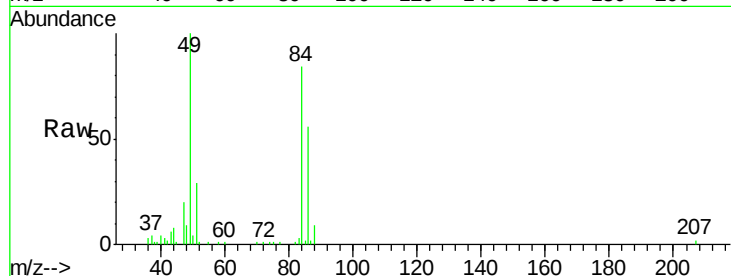




#20
Methvlene Chloride
Concen: 6.22 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

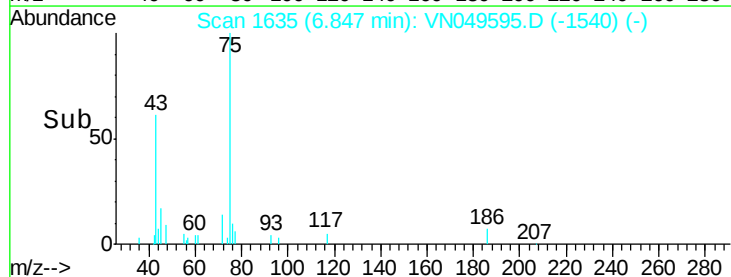
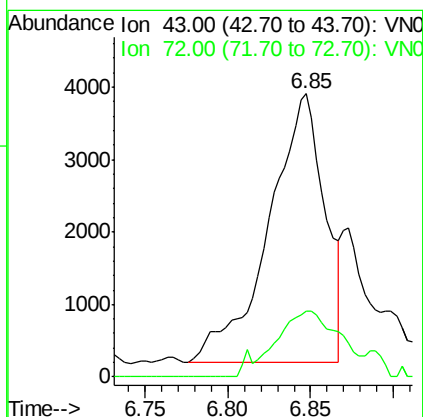
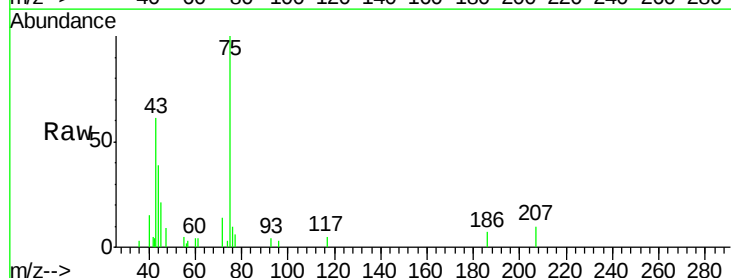
Instrument :
MSVOA_N
ClientSampled :

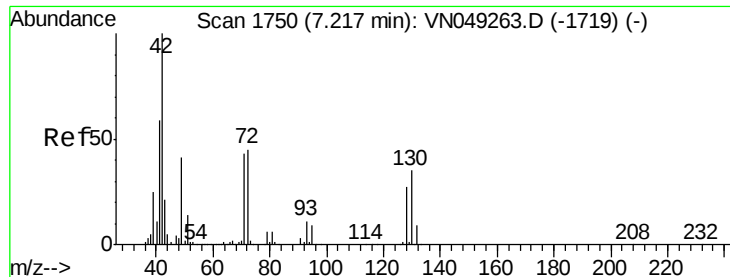
Tot Ion:	84	Resp:	89852
Ion	Ratio	Lower	Upper
84	100		
49	119.2	106.9	160.3
51	35.1	32.7	49.1
86	66.8	49.8	74.8



#25
2-Butanone
Concen: 1.88 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

Tgt Ion:	43	Resp:	8746
Ion	Ratio	Lower	Upper
43	100		
72	24.4	20.2	30.2





#29

Tetrahydrofuran

Concen: 0.81 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

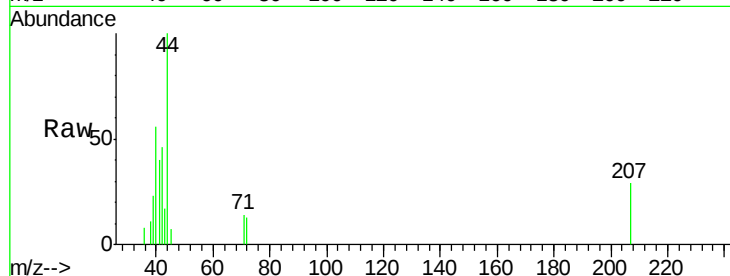
Tot Ion: 42 Resp: 2431

Ion Ratio Lower Upper

42 100

72 24.4 32.2 48.4#

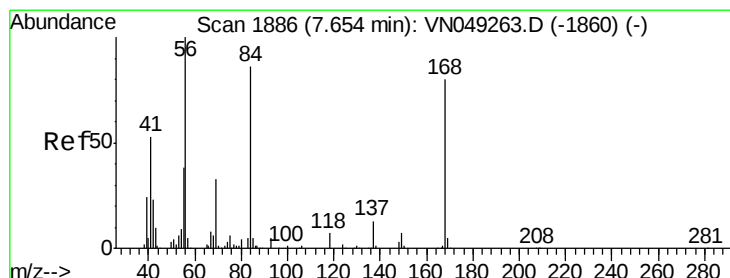
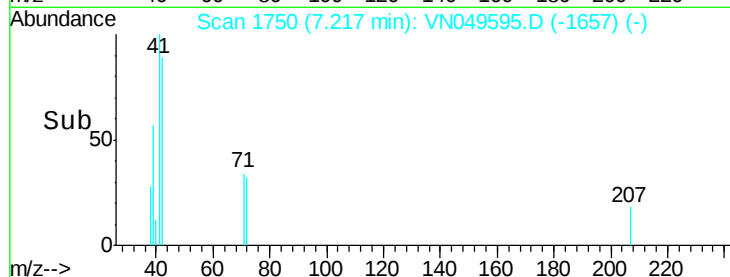
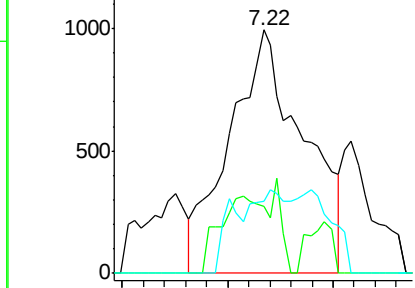
71 7.6 30.5 45.7#



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: 0.79 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

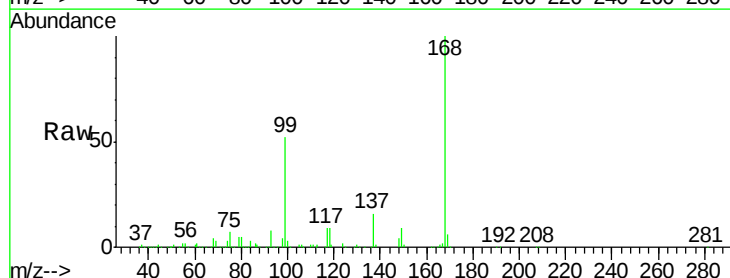
Tgt Ion: 56 Resp: 20221

Ion Ratio Lower Upper

56 100

69 168.8 25.0 37.4#

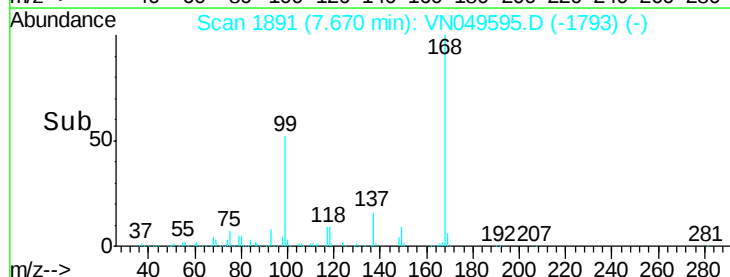
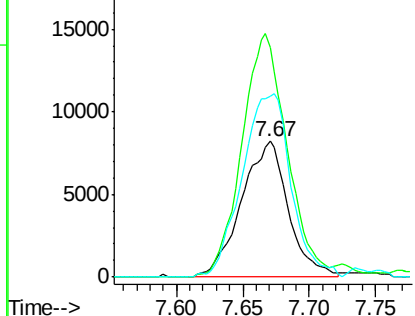
84 133.0 64.6 96.8#

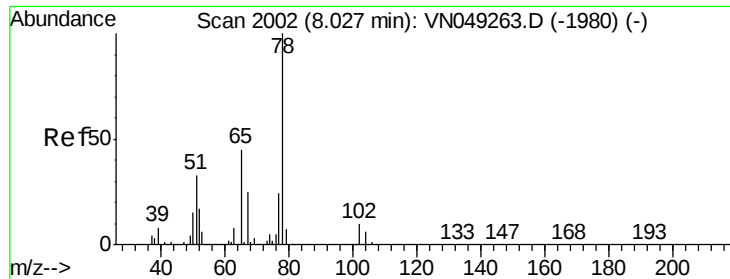


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.31 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

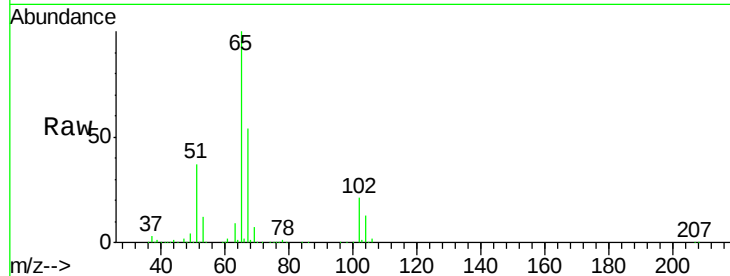
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 716758

Ion Ratio Lower Upper

65 100

67 53.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

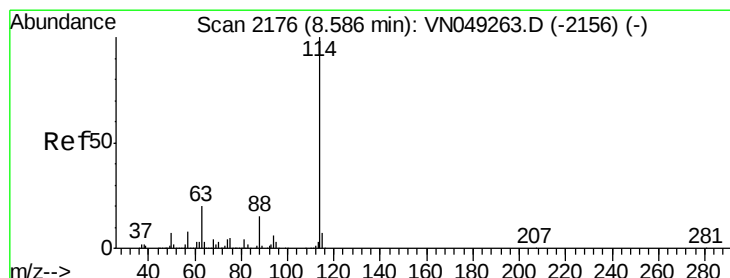
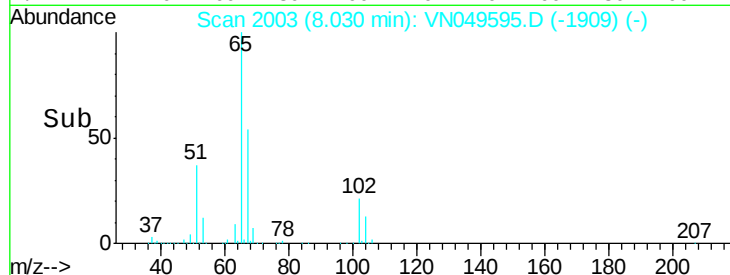
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

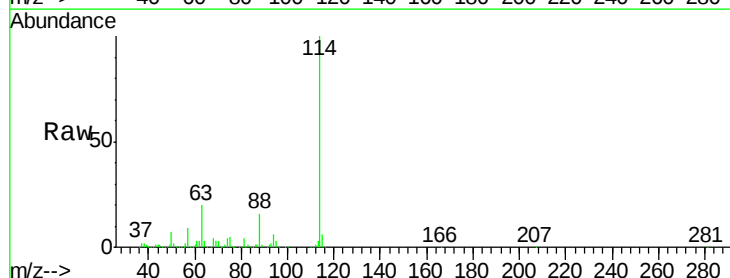
Tgt Ion: 114 Resp: 1721118

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

1000000

800000

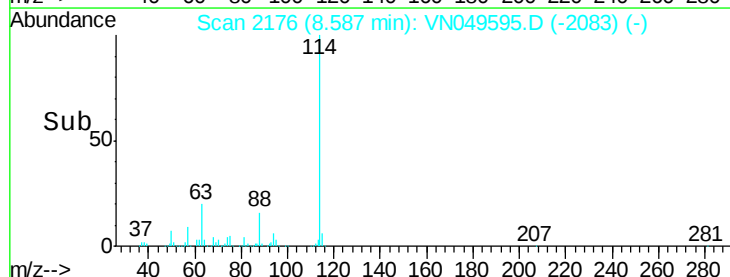
600000

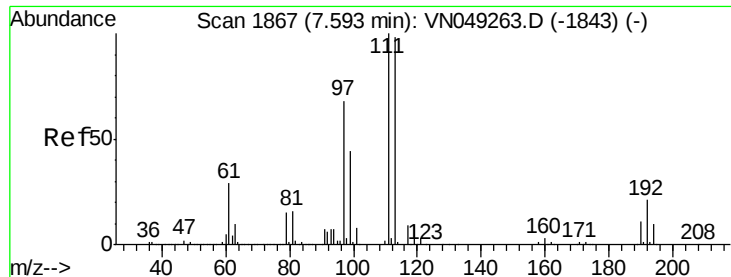
400000

200000

0

Time--> 8.50 8.60 8.70

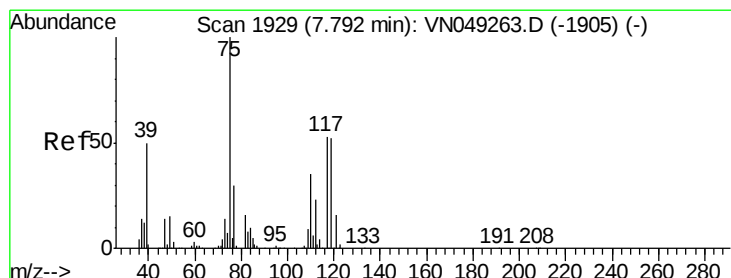
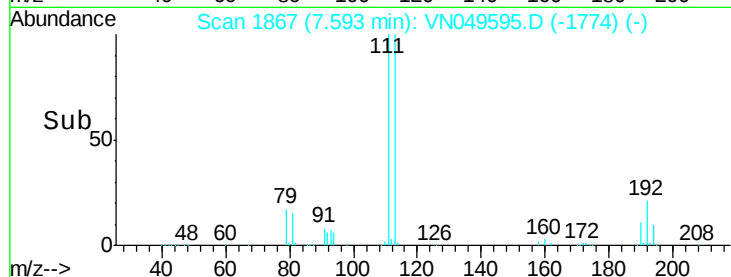
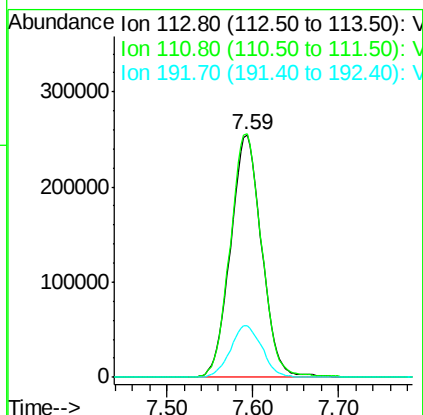
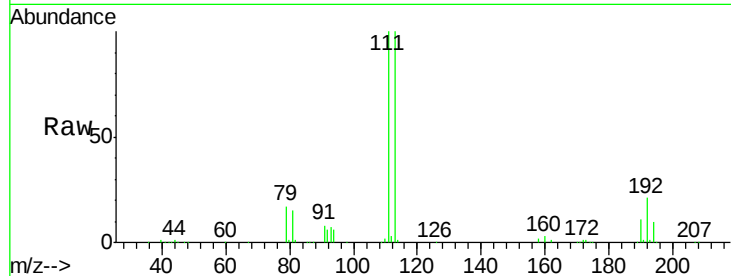




#35
 Dibromofluoromethane
 Concen: 46.00 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049595.D
 Acq: 28 Jun 2018 17:34

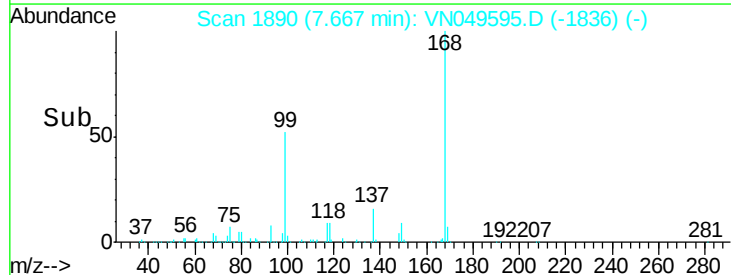
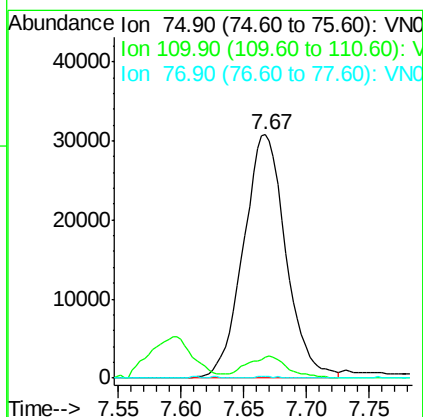
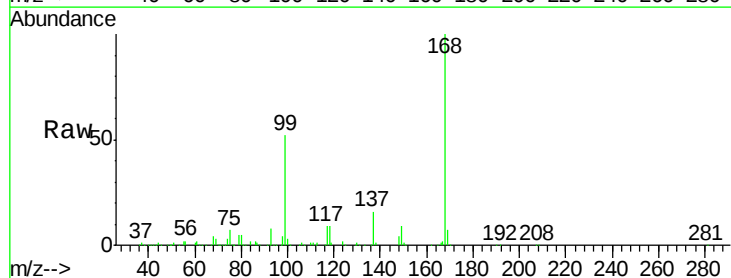
Instrument :
 MSVOA_N
 ClientSampled :

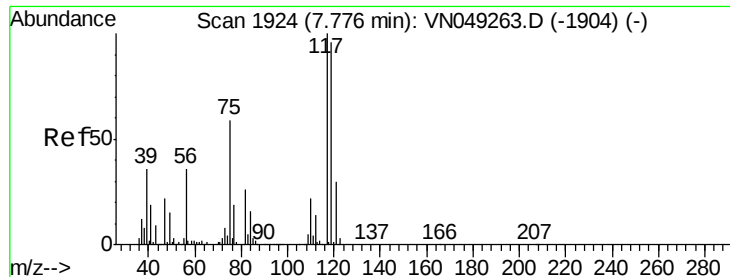
Tot Ion:113 Resp: 640473
 Ion Ratio Lower Upper
 113 100
 111 101.0 82.4 123.6
 192 21.7 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049595.D
 Acq: 28 Jun 2018 17:34

Tgt Ion: 75 Resp: 72632
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.0 50.9#
 77 0.3 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.77 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

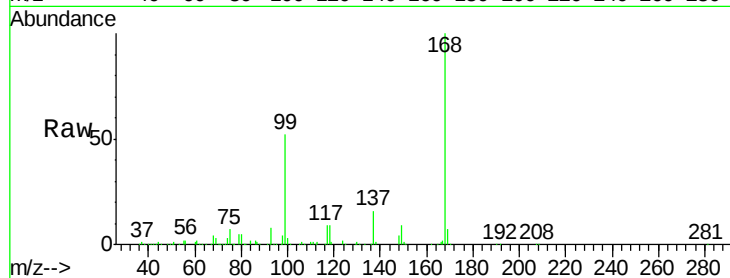
Tot Ion:117 Resp: 97390

Ion Ratio Lower Upper

117 100

119 6.3 75.6 113.4#

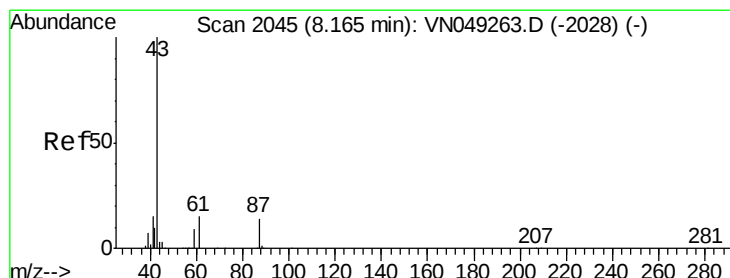
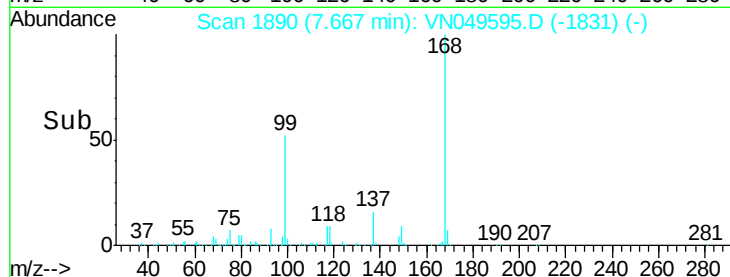
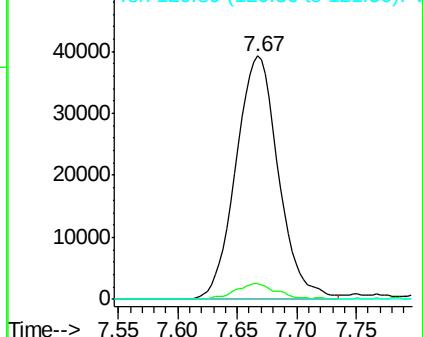
121 0.0 24.7 37.1#



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: 24.85 ug/l

RT: 8.29 min Scan# 2083

Delta R.T. 0.12 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

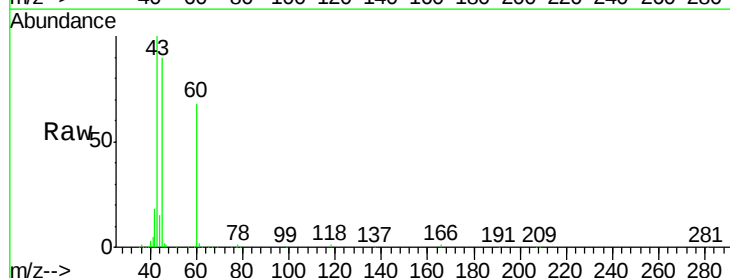
Tgt Ion: 43 Resp: 509096

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

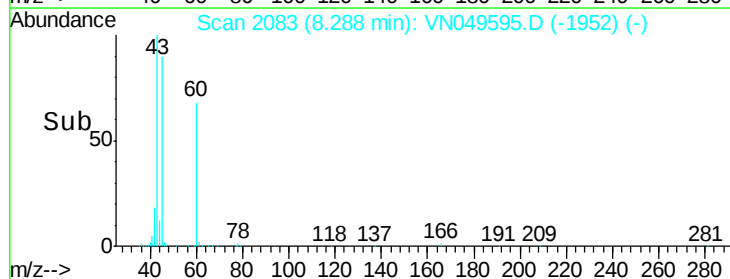
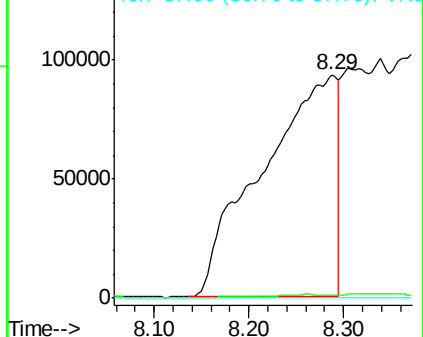
87 0.0 9.4 14.0#

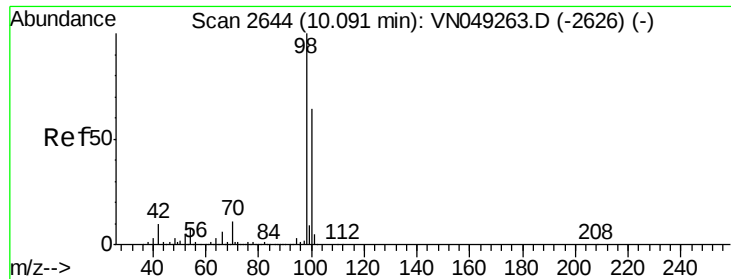


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

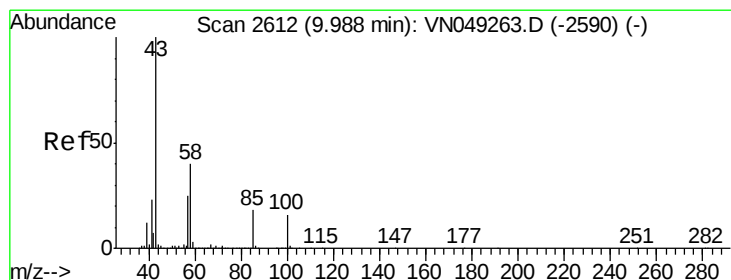
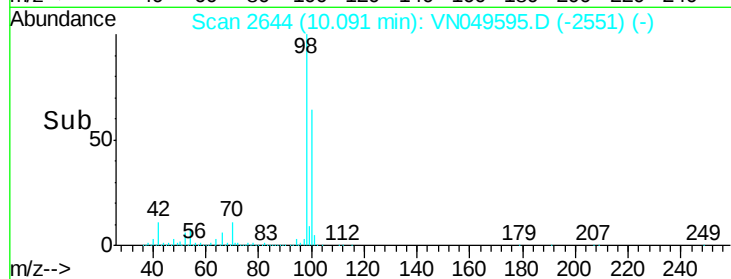
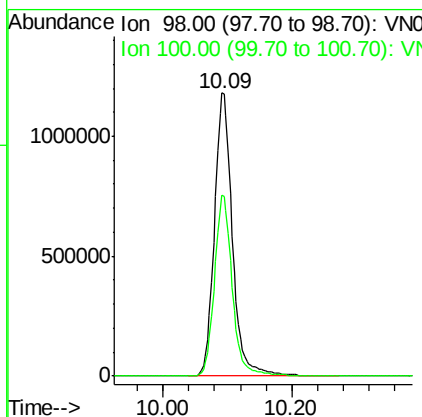
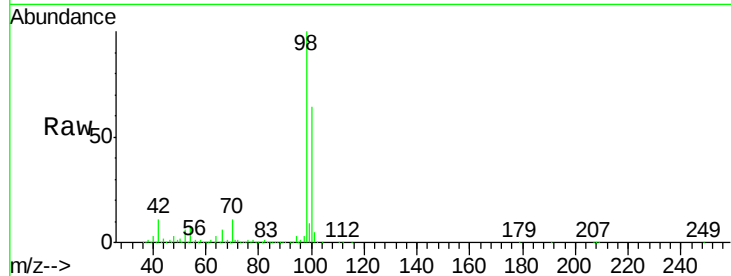




#50
Toluene-d8
Concen: 43.26 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

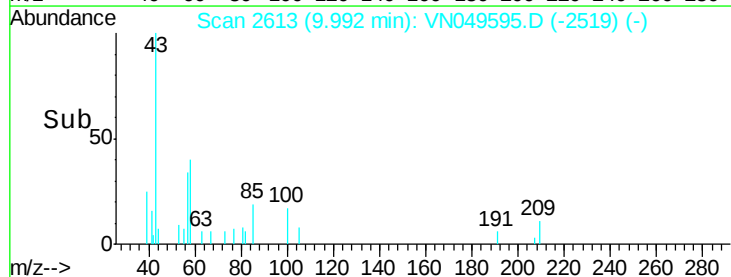
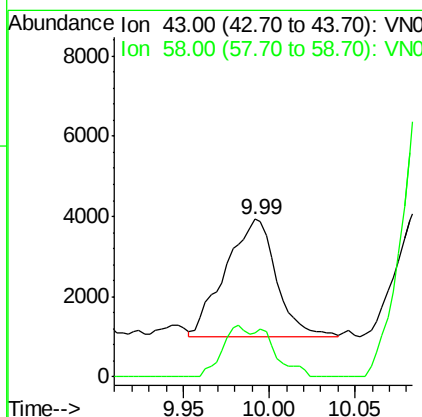
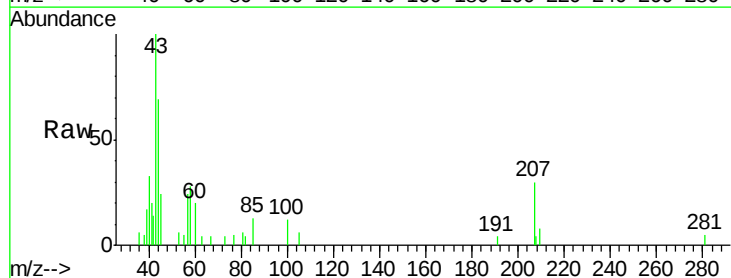
Instrument :
MSVOA_N
ClientSampled :

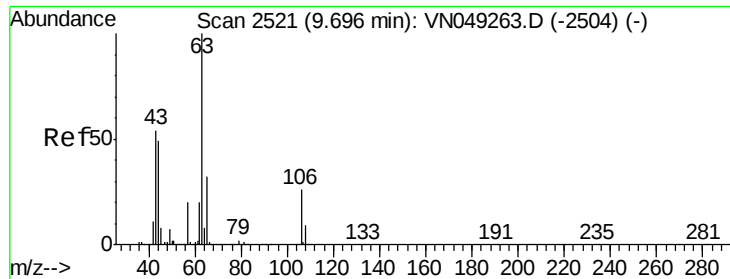
Tot Ion: 98 Resp: 2293598
Ion Ratio Lower Upper
98 100
100 63.4 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.57 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

Tgt Ion: 43 Resp: 6075
Ion Ratio Lower Upper
43 100
58 22.9 29.0 43.6#





#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.64 min Scan# 2505

Delta R.T. -0.05 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

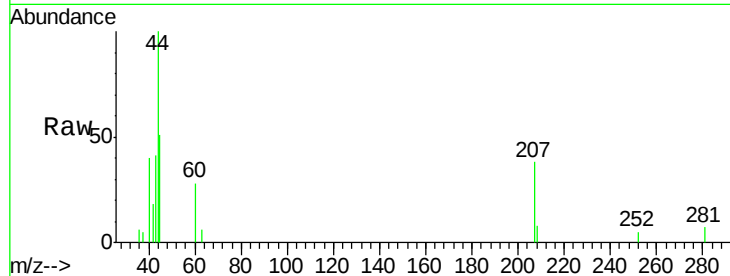
ClientSampleId :

Tot Ion: 63 Resp: 62

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049263.D (-2504) (-)

Ion 105.90 (105.60 to 106.60): VN049263.D (-2504) (-)

9.64

150

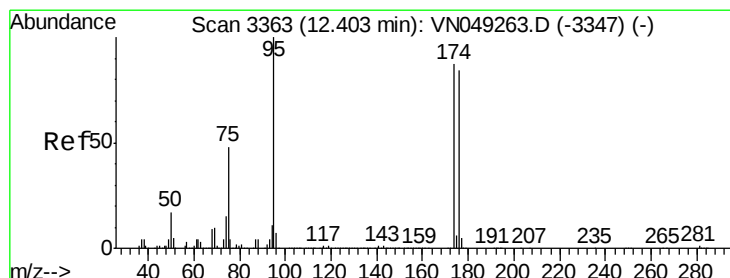
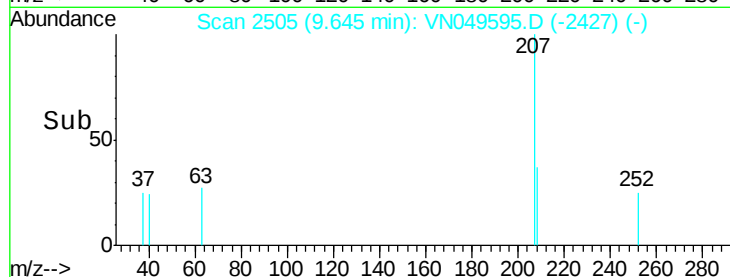
100

50

0

9.64 9.65

Time-->



#62

4-Bromofluorobenzene

Concen: 37.38 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

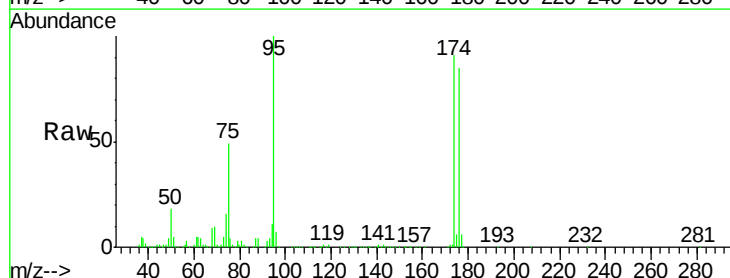
Tgt Ion: 95 Resp: 655277

Ion Ratio Lower Upper

95 100

174 90.0 0.0 165.6

176 85.8 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)

500000

400000

300000

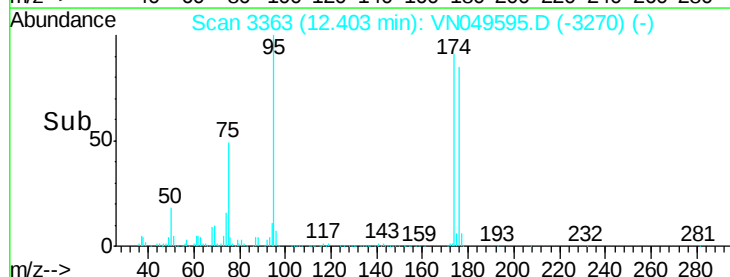
200000

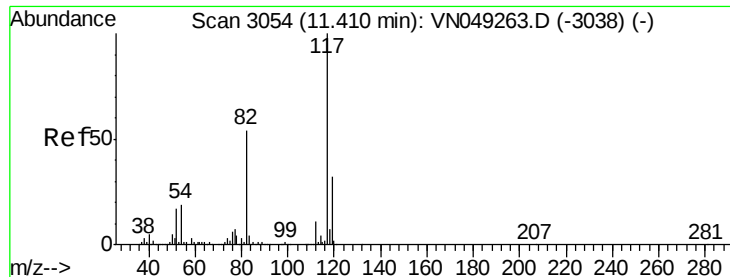
100000

0

12.30 12.40 12.50

Time-->

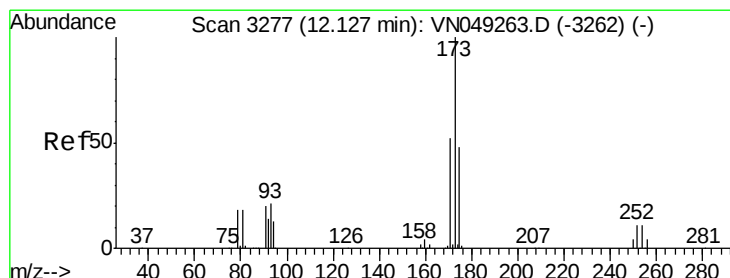
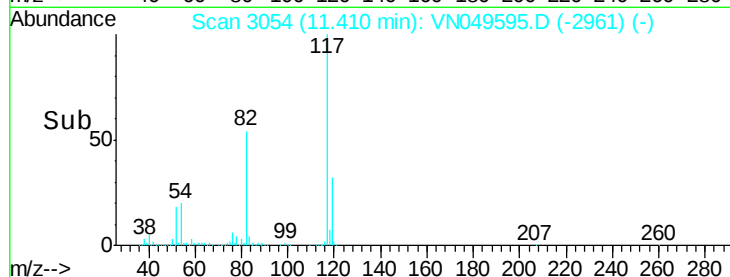
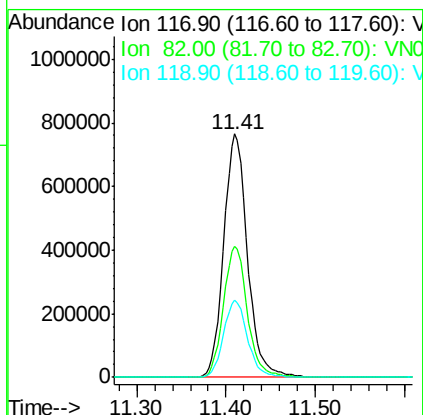
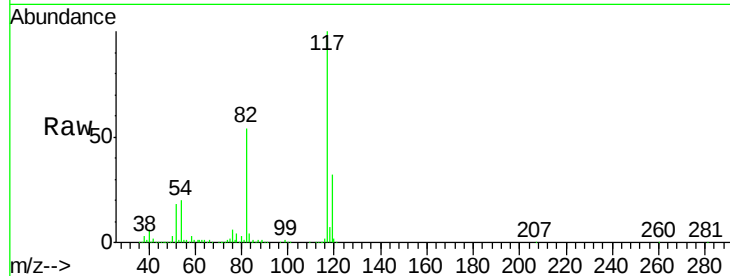




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

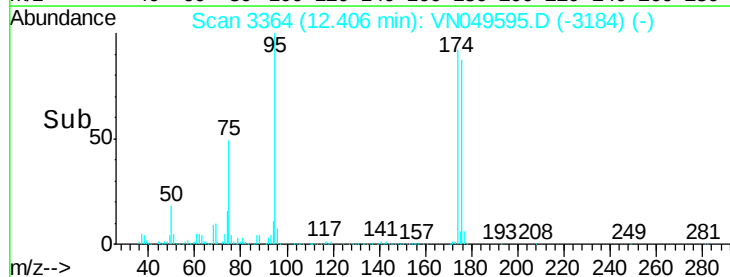
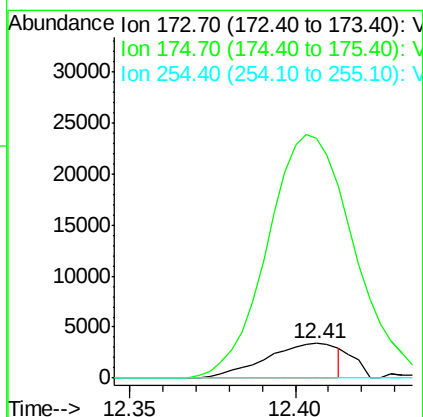
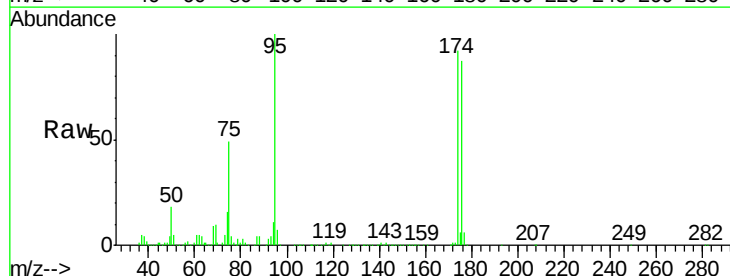
Instrument :
MSVOA_N
ClientSampled :

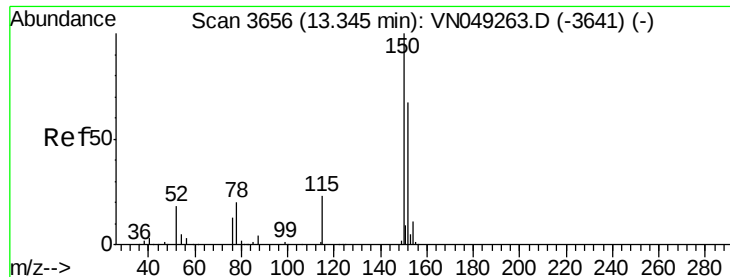
Tot Ion:117 Resp: 1408397
Ion Ratio Lower Upper
117 100
82 53.9 45.9 68.9
119 31.7 25.5 38.3



#71
Bromoform
Concen: 0.58 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049595.D
Acq: 28 Jun 2018 17:34

Tgt Ion:173 Resp: 5107
Ion Ratio Lower Upper
173 100
175 665.4 24.5 73.5#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

ClientSampleId :

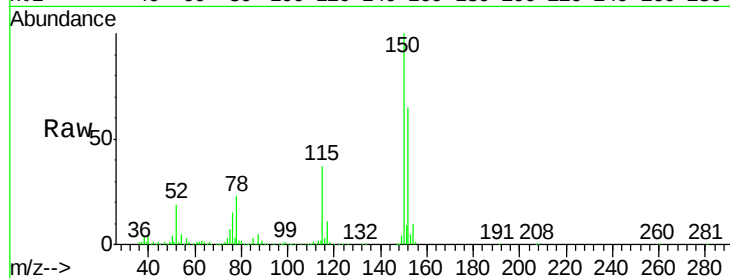
Tot Ion:152 Resp: 558833

Ion Ratio Lower Upper

152 100

115 56.3 28.7 86.1

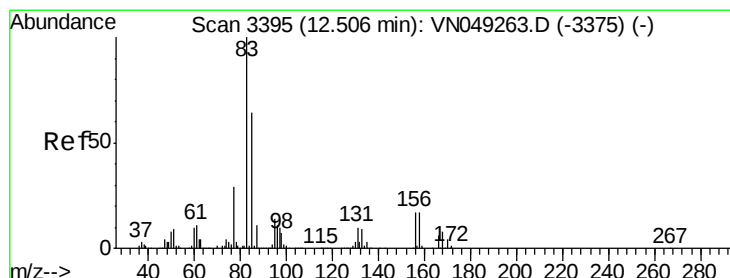
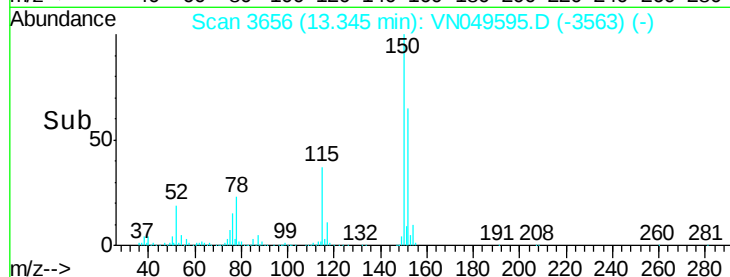
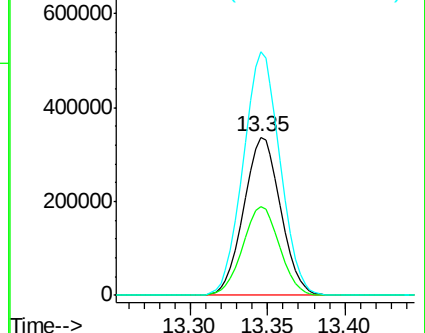
150 153.7 0.0 351.0



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.43 min Scan# 3370

Delta R.T. -0.08 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

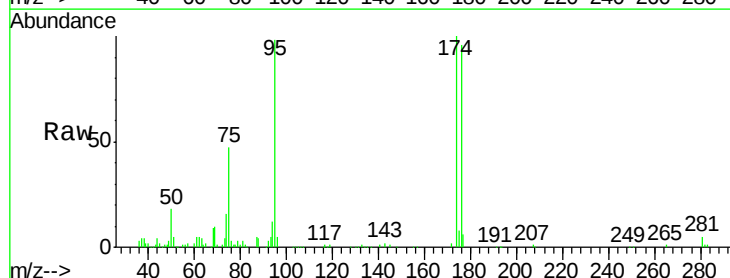
Tgt Ion: 83 Resp: 106

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

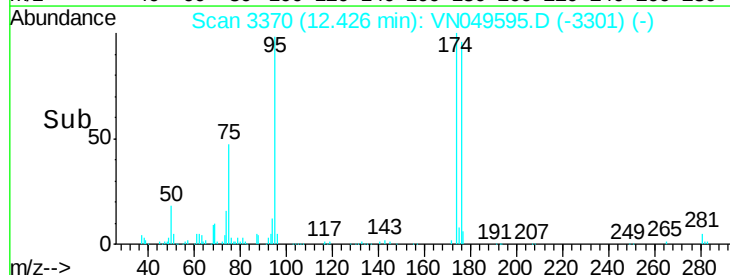
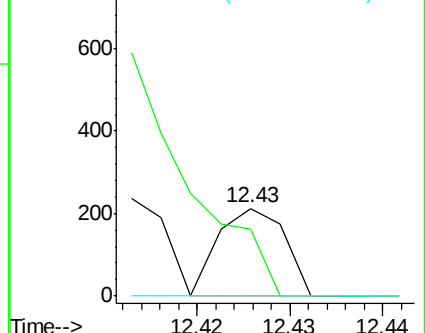
85 0.0 32.0 96.0#

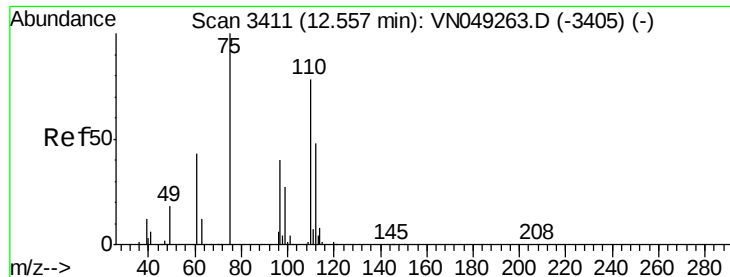


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 33.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

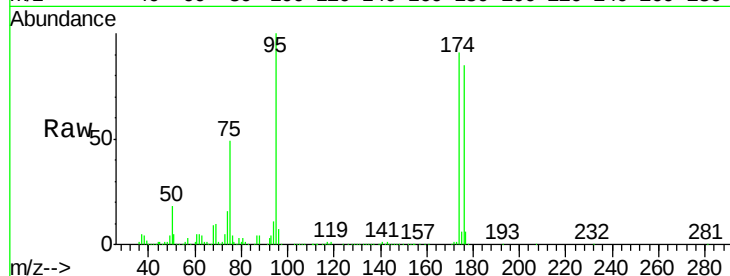
ClientSampled :

Tot Ion: 75 Resp: 319098

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

200000

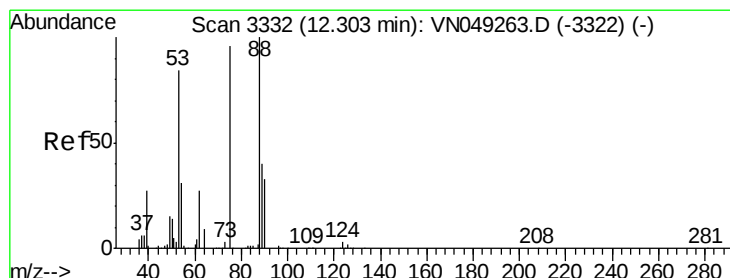
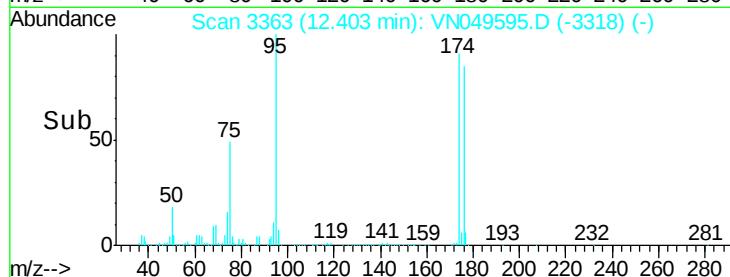
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 105.77 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

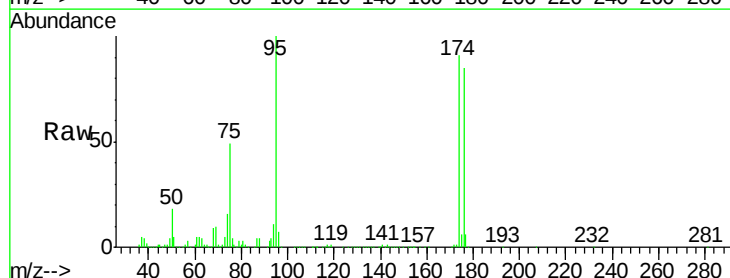
Tgt Ion: 75 Resp: 319098

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#



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

12.40

250000

200000

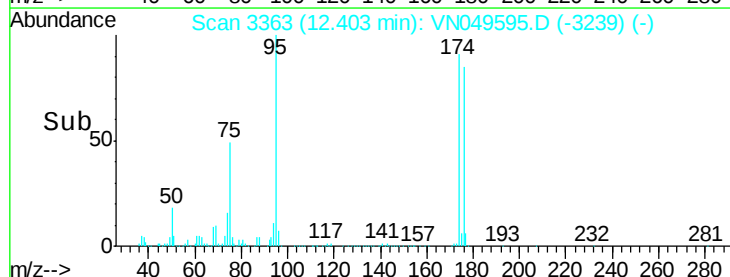
150000

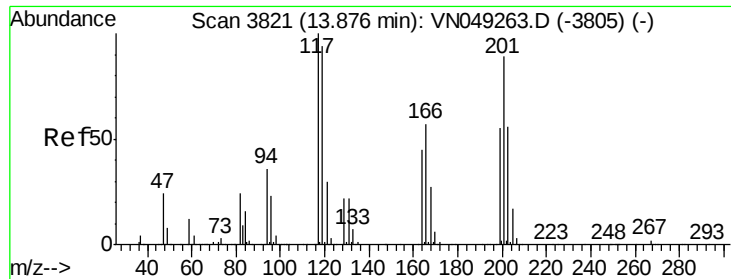
100000

50000

0

Time--> 12.30 12.40 12.50





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3824

Delta R.T. 0.01 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

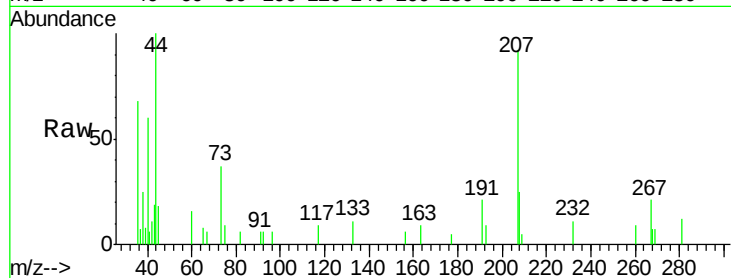
ClientSampled :

Tot Ion:117 Resp: 125

Ion Ratio Lower Upper

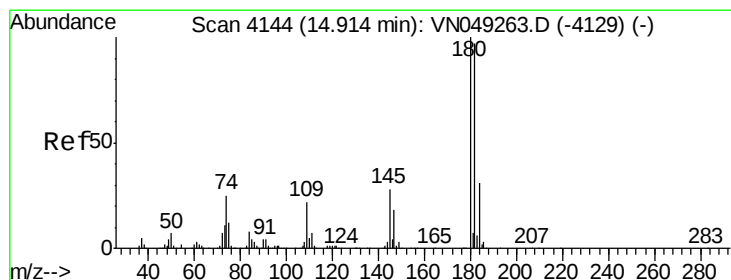
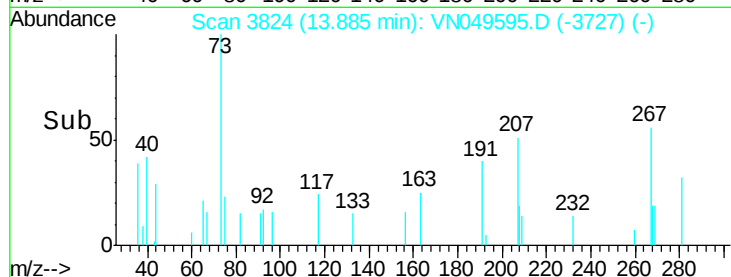
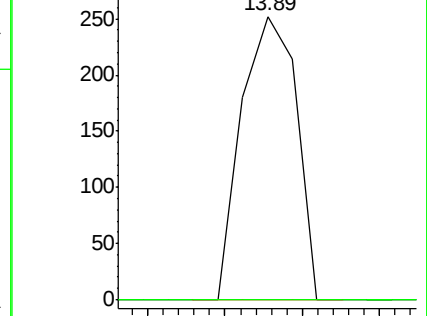
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.81 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

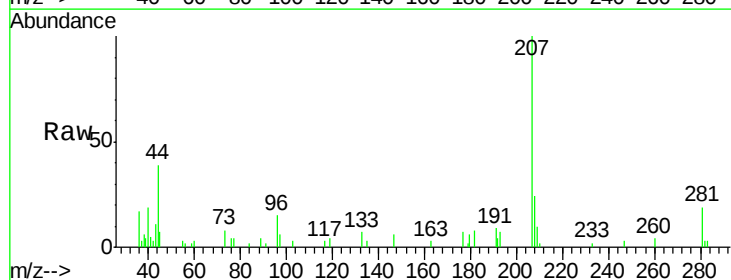
Tgt Ion:180 Resp: 704

Ion Ratio Lower Upper

180 100

182 101.6 46.9 140.8

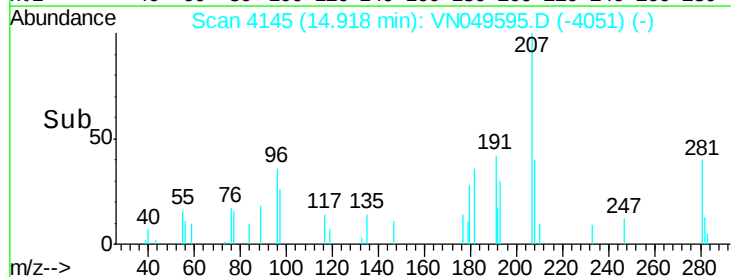
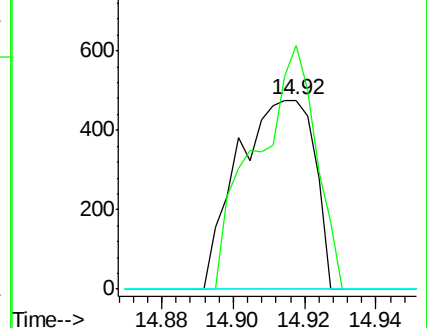
145 0.0 14.7 44.1#

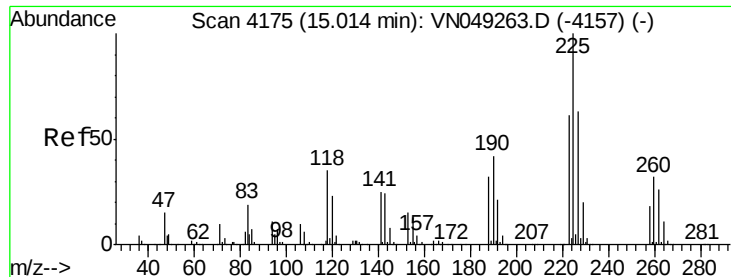


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

Instrument :

MSVOA_N

ClientSampleId :

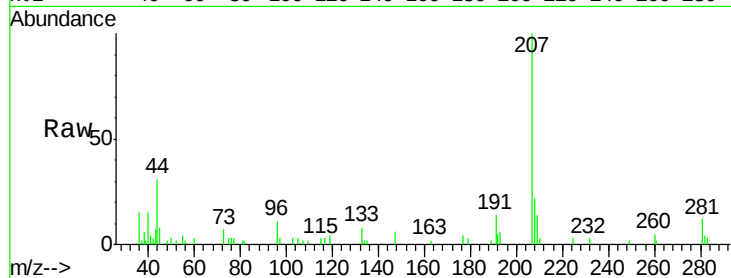
Tot Ion:225 Resp: 128

Ion Ratio Lower Upper

225 100

223 0.0 32.1 96.3#

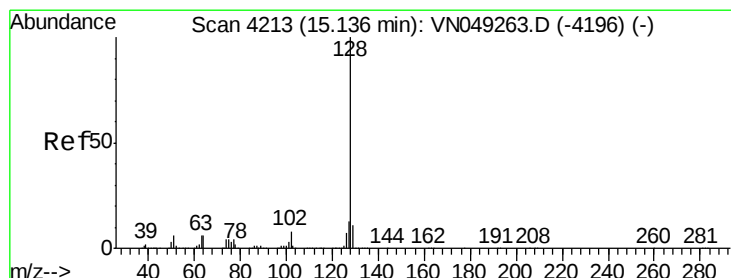
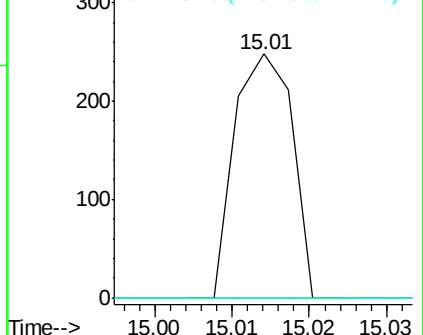
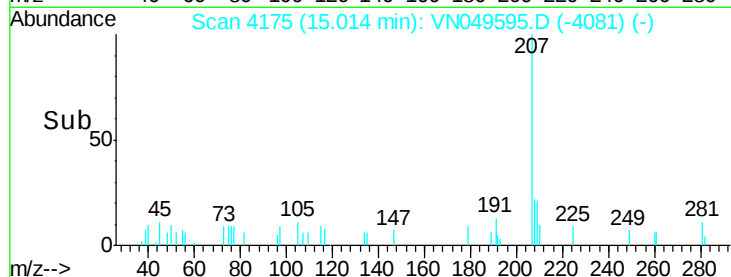
227 0.0 31.8 95.3#



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: 2.24 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049595.D

Acq: 28 Jun 2018 17:34

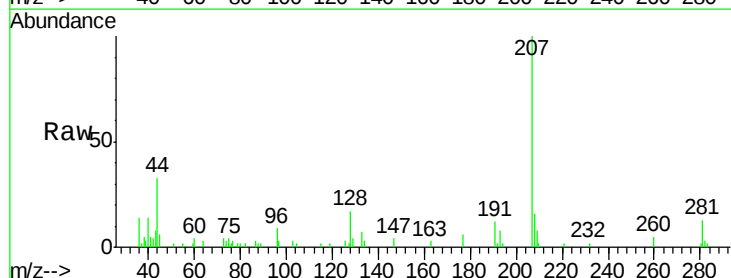
Tgt Ion:128 Resp: 2489

Ion Ratio Lower Upper

128 100

127 14.8 10.6 16.0

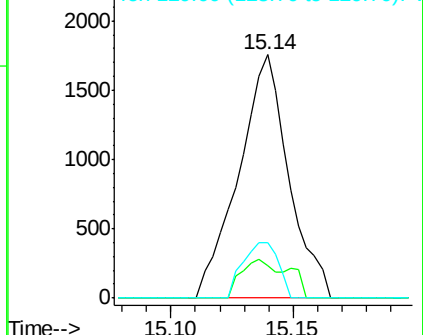
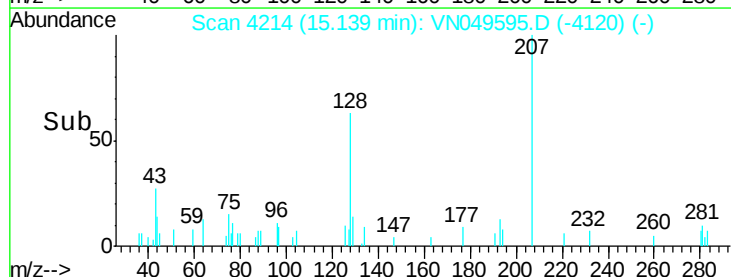
129 16.1 8.5 12.7#

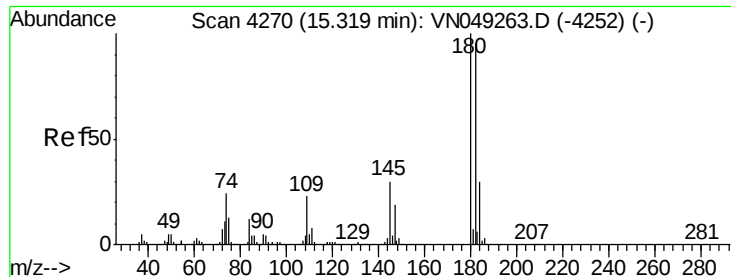


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

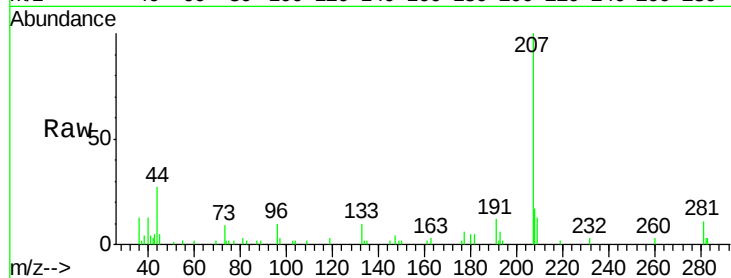




#96
 1,2,3-Trichlorobenzene
 Concen: 3.53 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. -0.00 min
 Lab File: VN049595.D
 Acq: 28 Jun 2018 17:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.9	47.3	141.8
145	37.4	15.6	46.7



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

