

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083119\
 Data File : VN057601.D
 Acq On : 30 Aug 2019 20:54
 Operator : JC/SP
 Sample : K4517-25
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D1-(2.5)

Quant Time: Aug 31 00:50:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 11:59:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	580740	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	906361	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	795137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	222097	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	350653	36.89	ug/l	0.00
Spiked Amount			Recovery	=	73.78%	
35) Dibromofluoromethane	7.58	113	277658	34.27	ug/l	0.00
Spiked Amount			Recovery	=	68.54%	
50) Toluene-d8	10.09	98	1113913	38.87	ug/l	0.00
Spiked Amount			Recovery	=	77.74%	
62) 4-Bromofluorobenzene	12.40	95	305639	31.78	ug/l	0.00
Spiked Amount			Recovery	=	63.56%	

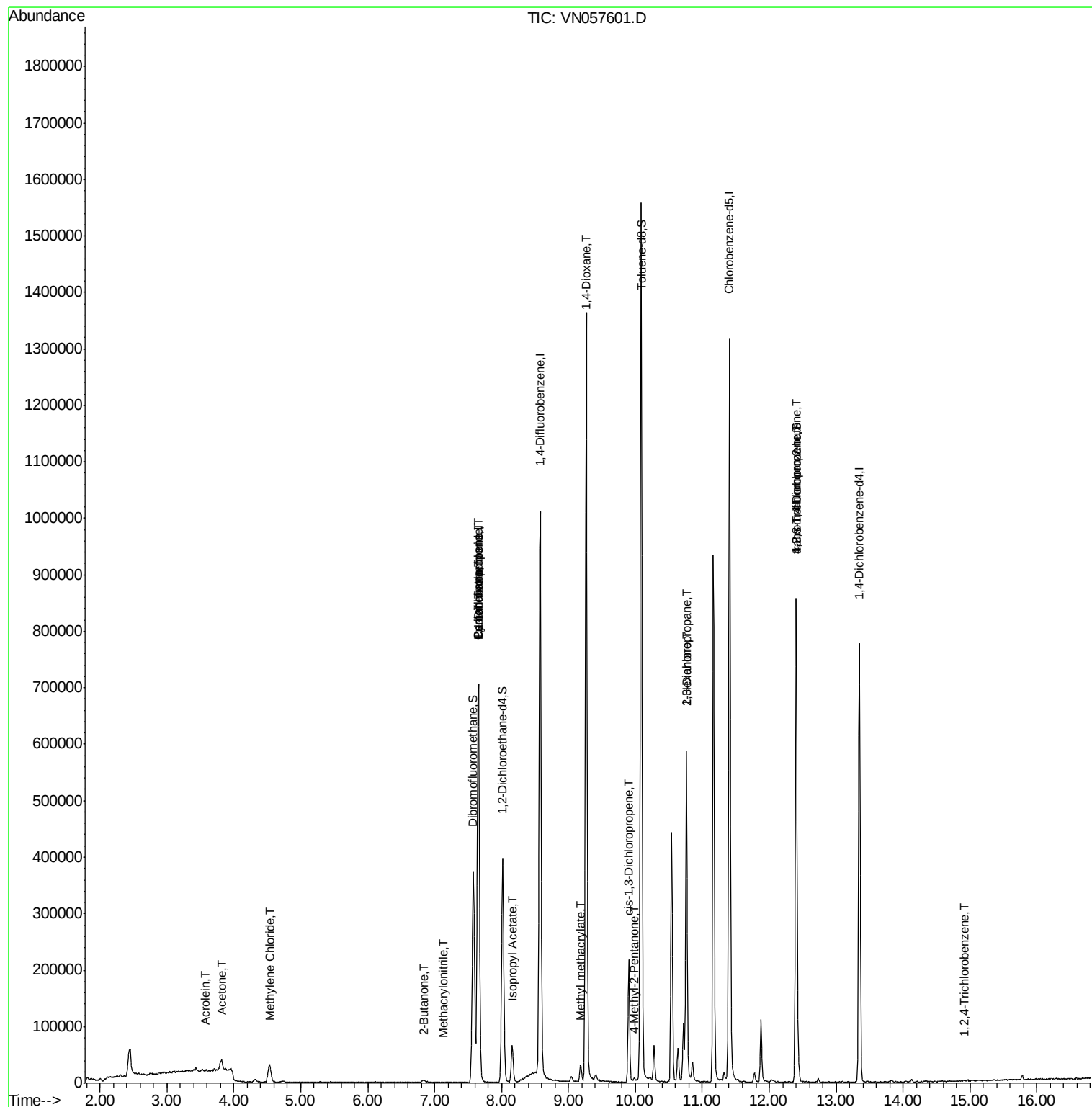
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.58	56	633	0.789	ug/l #	51
16) Acetone	3.81	43	25089	6.530	ug/l #	78
18) Methyl Acetate	4.32	43	9178	Below Cal	#	65
20) Methylene Chloride	4.53	84	23114	3.247	ug/l #	82
25) 2-Butanone	6.84	43	940	0.310	ug/l #	78
31) Cyclohexane	7.64	56	13064	1.183	ug/l #	25
36) 1,1-Dichloropropene	7.65	75	43490	4.436	ug/l #	52
38) Carbon Tetrachloride	7.65	117	58120	5.069	ug/l #	15
41) Methacrylonitrile	7.14	41	142	1.313	ug/l #	28
43) Isopropyl Acetate	8.16	43	75843	6.255	ug/l #	95
48) Methyl methacrylate	9.18	41	4359	0.761	ug/l #	15
49) 1,4-Dioxane	9.28	88	96	0.919	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5199	0.802	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	38452	3.239	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	6819	0.571	ug/l #	43
59) 2-Hexanone	10.76	43	76898	17.187	ug/l #	58
73) Isopropylbenzene	12.40	105	321	Below Cal	#	50
74) N-amyl acetate	12.04	43	2896	Below Cal	#	50
75) 1,1,2,2-Tetrachloroethane	12.40	83	300	Below Cal	#	11
76) 1,2,3-Trichloropropane	12.40	75	166522	40.110	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166522	112.740	ug/l #	8
83) tert-Butylbenzene	12.74	119	322	Below Cal	#	71
93) 1,2,4-Trichlorobenzene	14.92	180	498	3.933	ug/l #	78

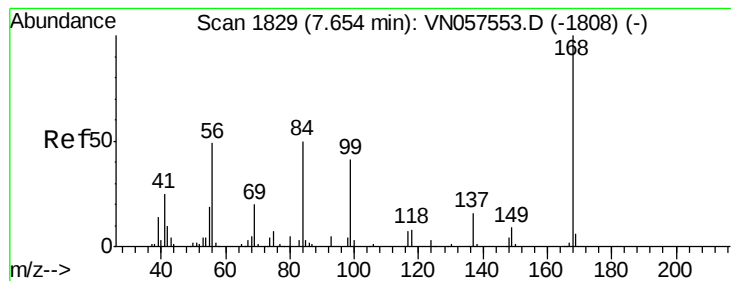
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T4-S-D1-(2.5)

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Quant Title : SW846 8260
QLast Update : Fri Aug 30 11:59:03 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampled :

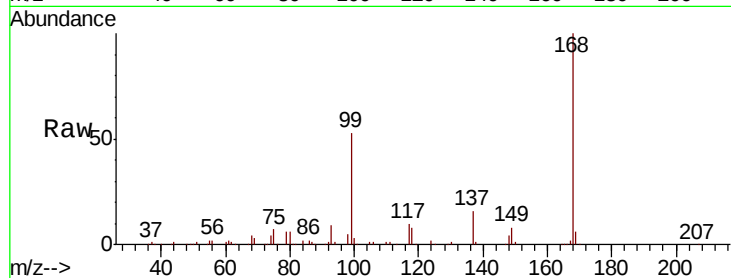
T4-S-D1-(2.5)

Tgt Ion:168 Resp: 580740

Ion Ratio Lower Upper

168 100

99 53.2 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

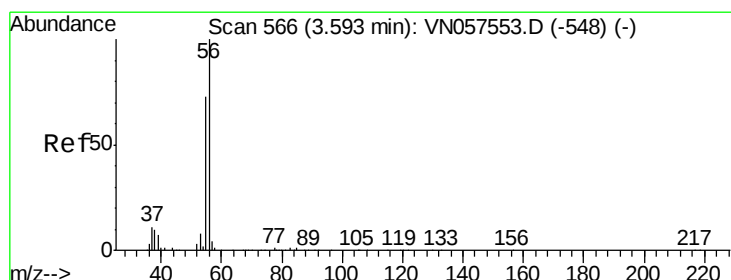
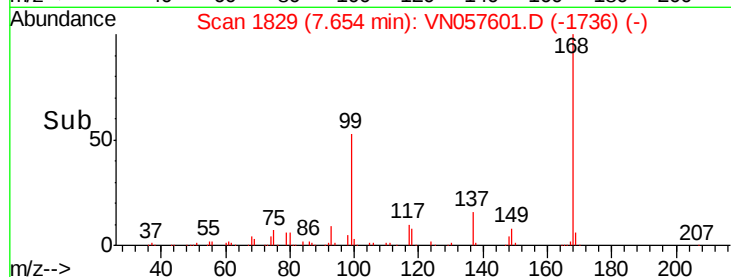
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.789 ug/l

RT: 3.58 min Scan# 561

Delta R.T. -0.02 min

Lab File: VN057601.D

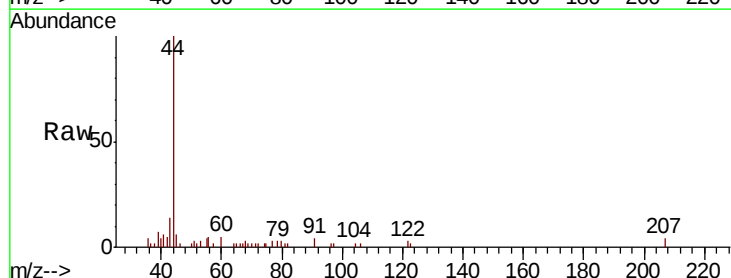
Acq: 30 Aug 2019 20:54

Tgt Ion: 56 Resp: 633

Ion Ratio Lower Upper

56 100

55 32.1 59.0 88.4#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.58

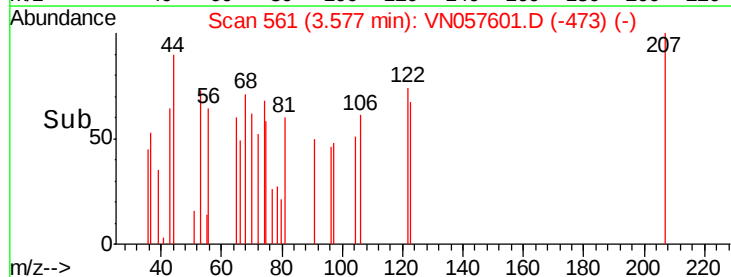
600

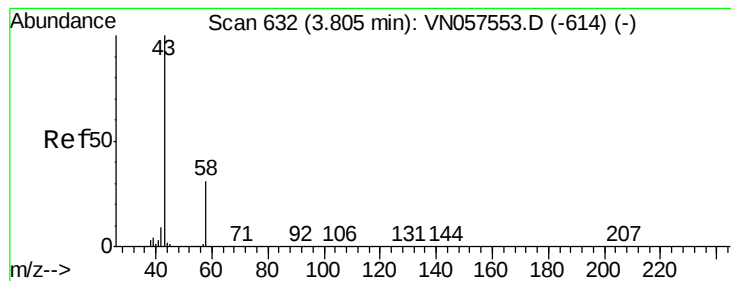
400

200

0

Time-->





#16

Acetone

Concen: 6.530 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampleId :

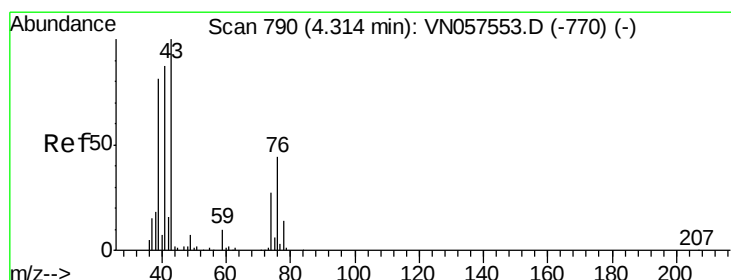
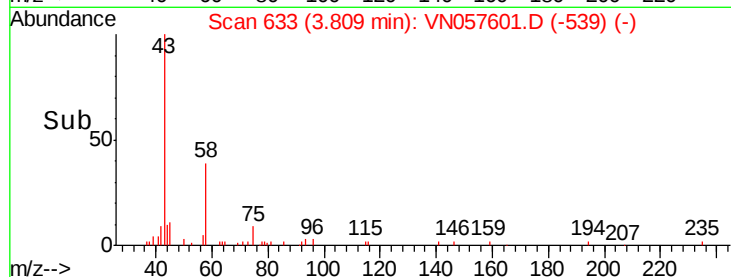
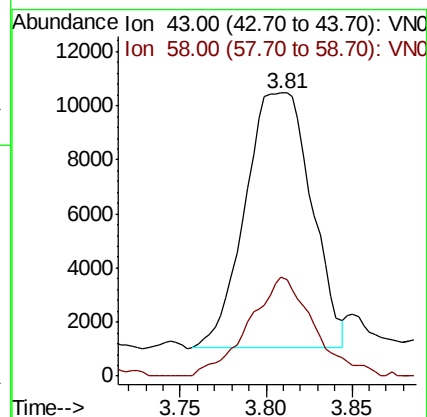
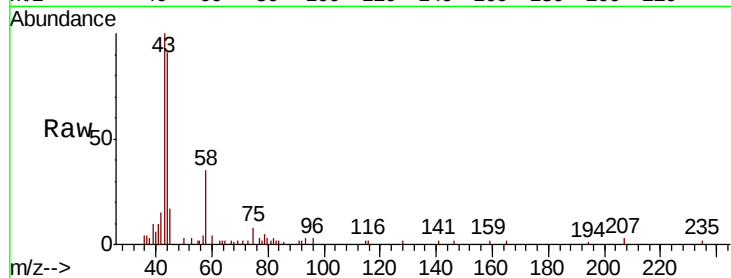
T4-S-D1-(2.5)

Tgt Ion: 43 Resp: 25089

Ion Ratio Lower Upper

43 100

58 39.1 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN057601.D

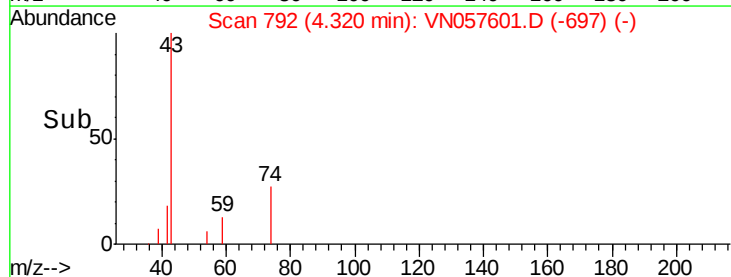
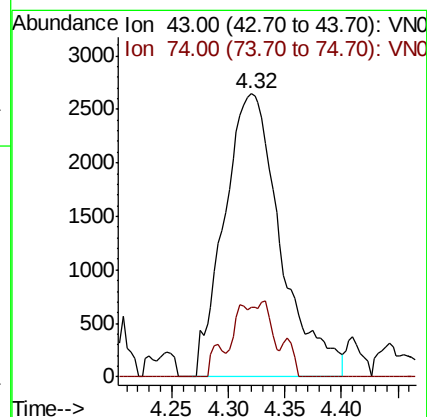
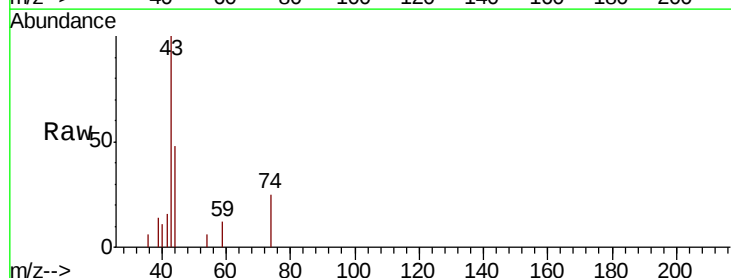
Acq: 30 Aug 2019 20:54

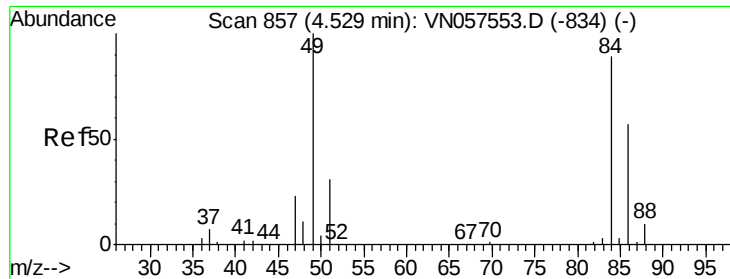
Tgt Ion: 43 Resp: 9178

Ion Ratio Lower Upper

43 100

74 3.8 15.9 23.9#

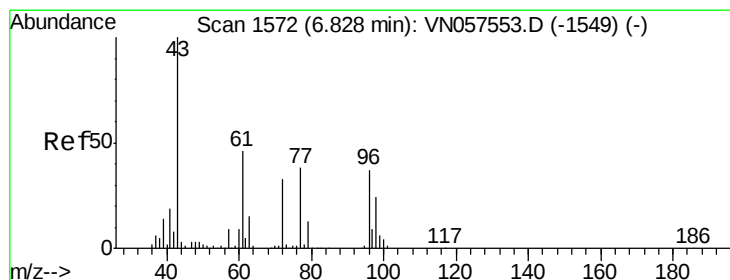
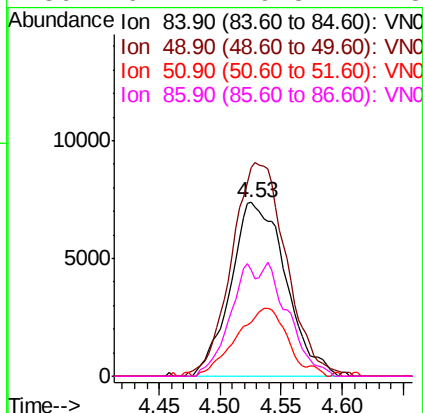
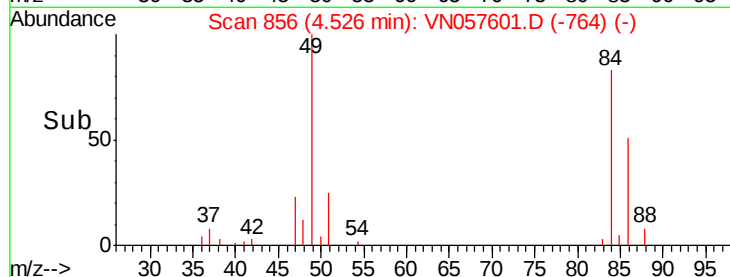
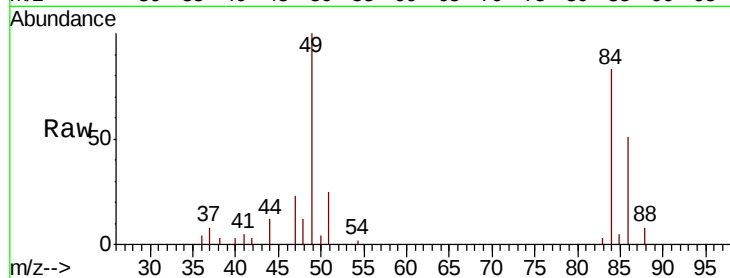




#20
Methylene Chloride
Concen: 3.247 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

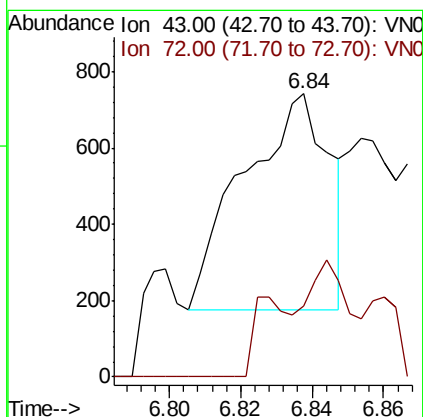
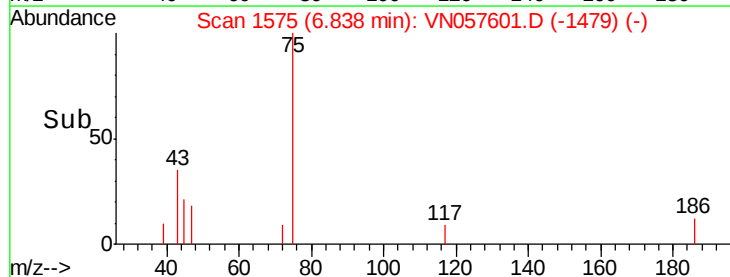
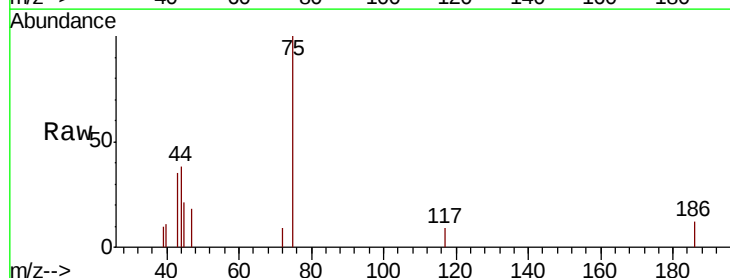
Instrument :
MSVOA_N
ClientSampled :
T4-S-D1-(2.5)

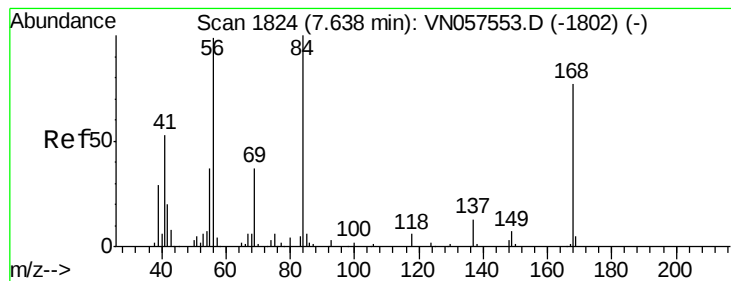
Tgt Ion: 84 Resp: 23114
Ion Ratio Lower Upper
84 100
49 118.3 117.0 175.4
51 28.6 35.5 53.3#
86 61.1 49.8 74.8



#25
2-Butanone
Concen: 0.310 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

Tgt Ion: 43 Resp: 940
Ion Ratio Lower Upper
43 100
72 33.0 17.8 26.8#





#31

Cyclohexane

Concen: 1.183 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampled :

T4-S-D1-(2.5)

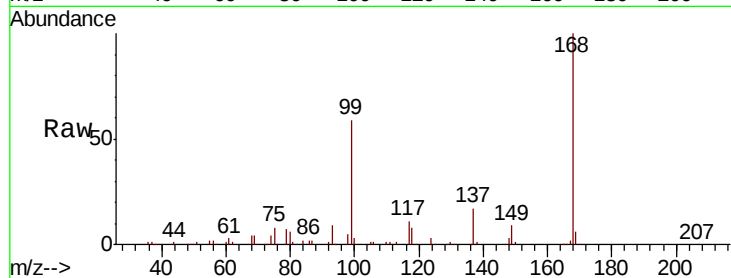
Tgt Ion: 56 Resp: 13064

Ion Ratio Lower Upper

56 100

69 148.3 25.0 37.6#

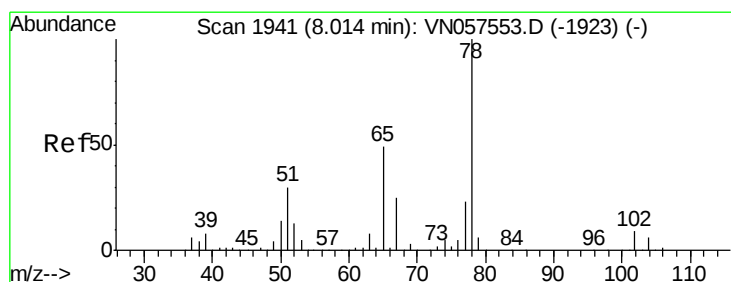
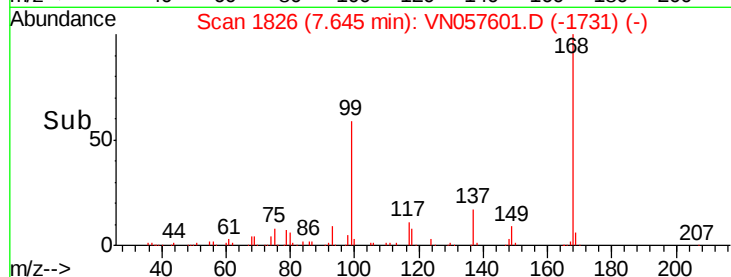
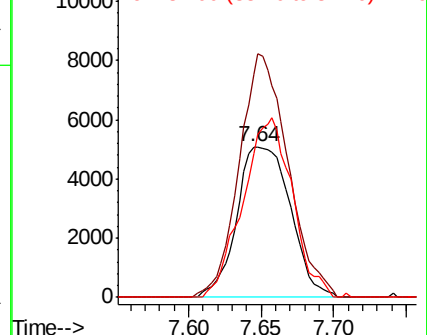
84 95.2 62.5 93.7#



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: 36.890 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057601.D

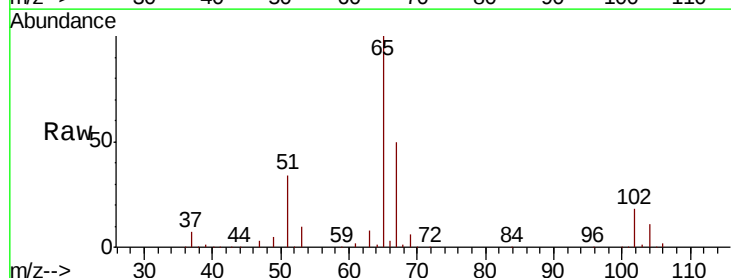
Acq: 30 Aug 2019 20:54

Tgt Ion: 65 Resp: 350653

Ion Ratio Lower Upper

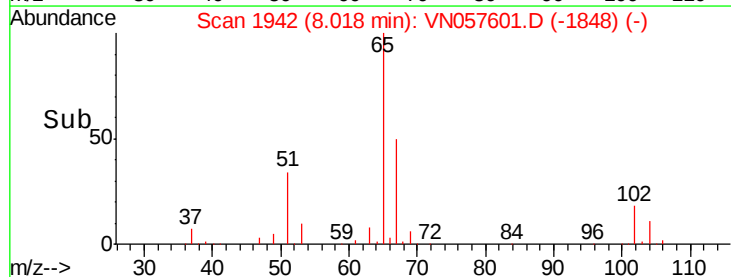
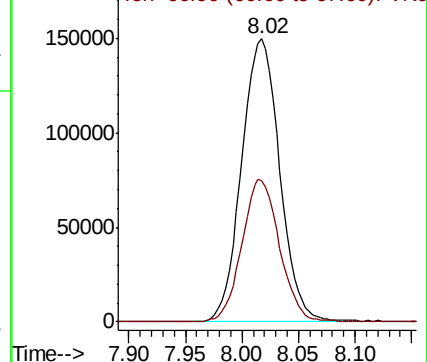
65 100

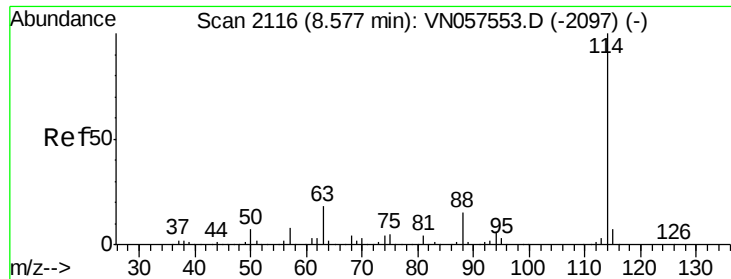
67 49.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

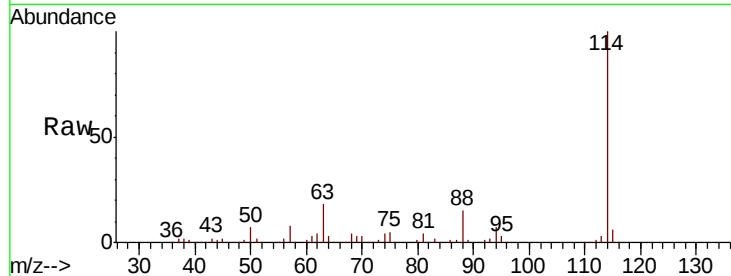




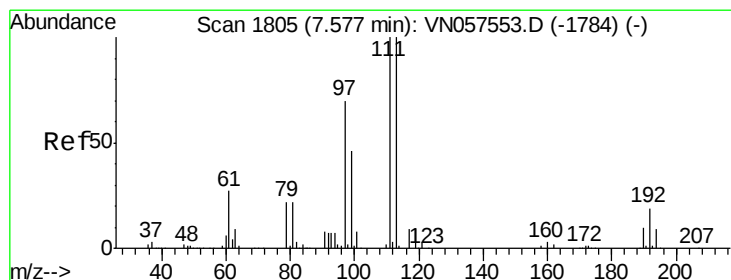
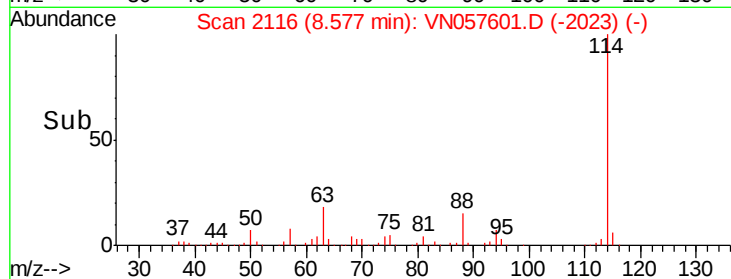
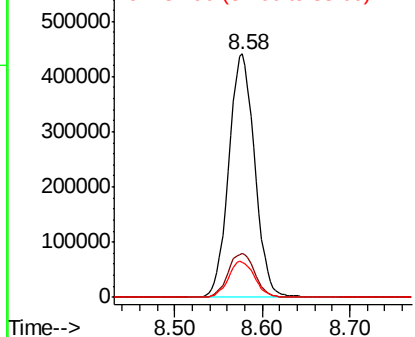
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

Instrument :
 MSVOA_N
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 T4-S-D1-(2.5)

Tgt Ion:114 Resp: 906361
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 50.2
 88 14.6 0.0 34.6

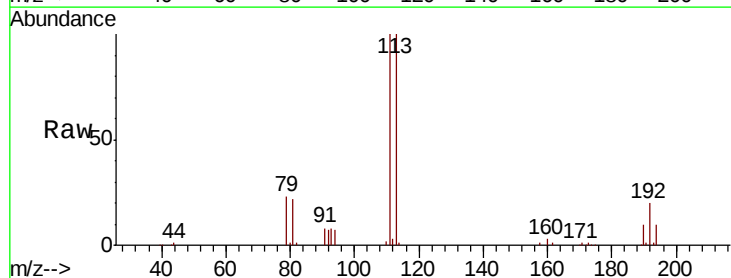


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

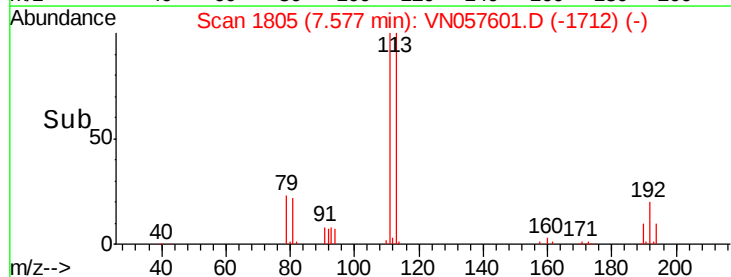
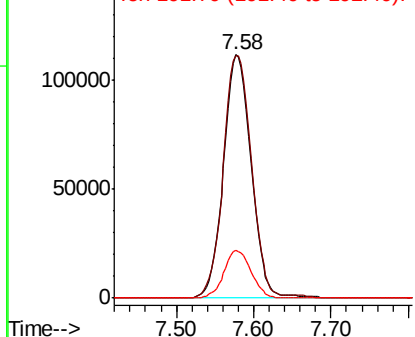


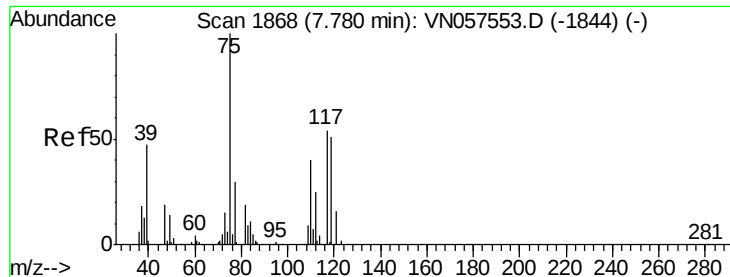
#35
 Dibromofluoromethane
 Concen: 34.274 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

Tgt Ion:113 Resp: 277658
 Ion Ratio Lower Upper
 113 100
 111 101.3 83.8 125.6
 192 19.2 13.5 20.3



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

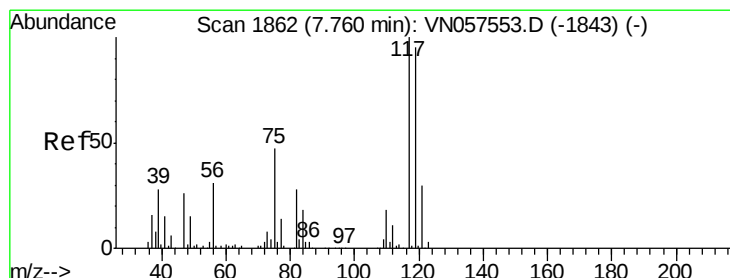
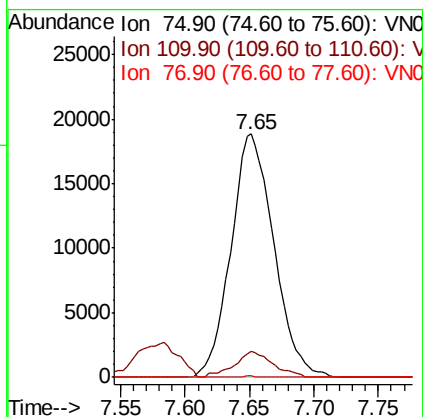
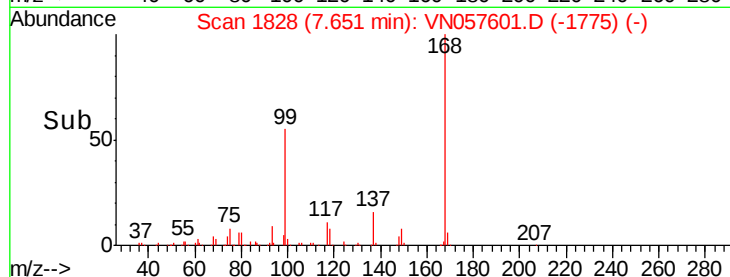
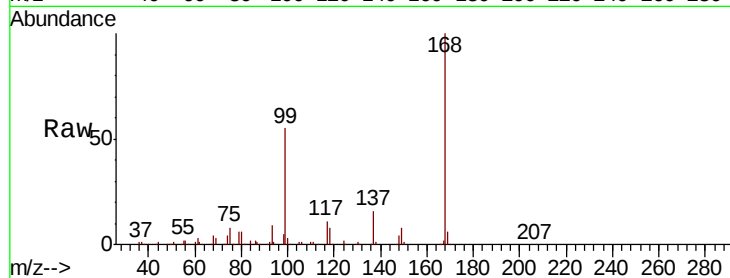




#36
 1,1-Dichloropropene
 Concen: 4.436 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

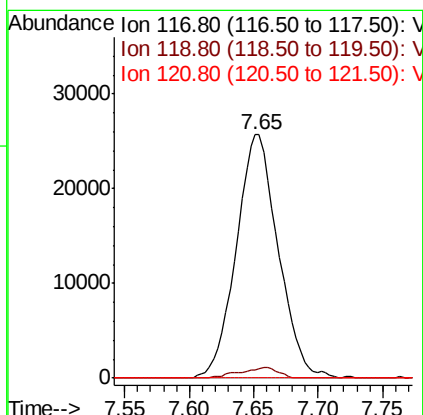
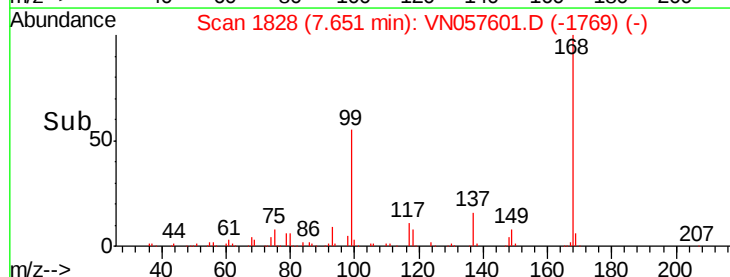
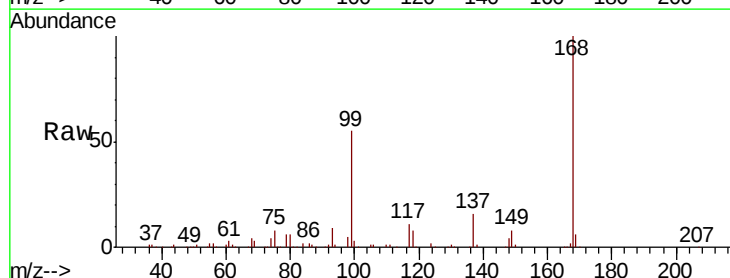
Instrument :
 MSVOA_N
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 T4-S-D1-(2.5)

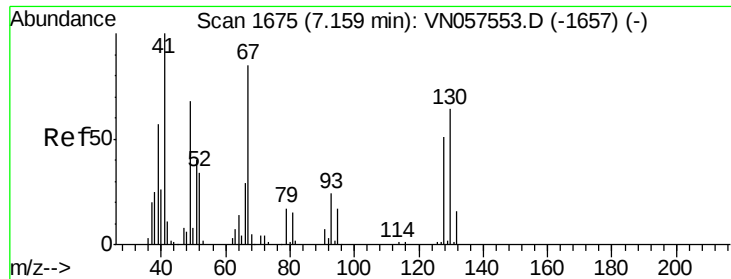
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.1	48.3#
77	0.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.069 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.2	76.2	114.4#
121	0.0	23.8	35.6#

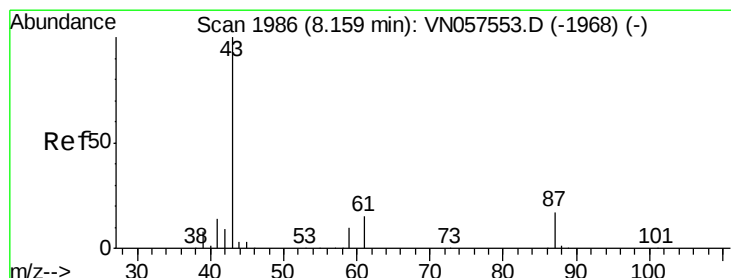
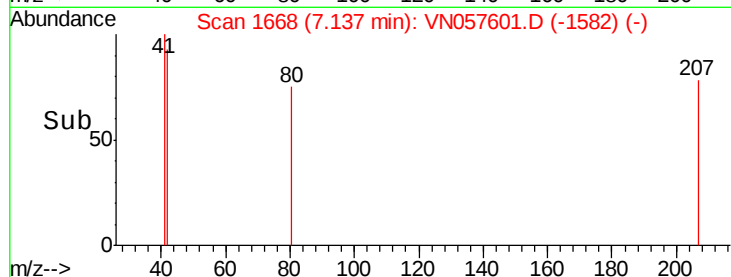
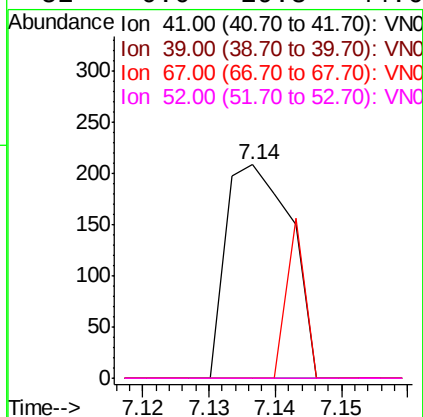
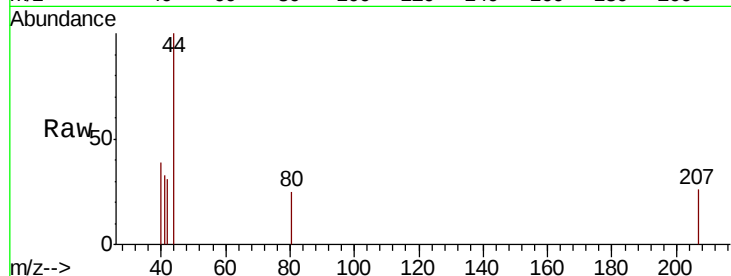




#41
Methacrylonitrile
Concen: 1.313 ug/l
RT: 7.14 min Scan# 1668
Delta R.T. -0.02 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

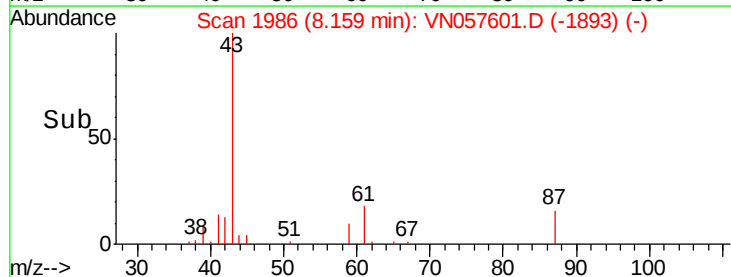
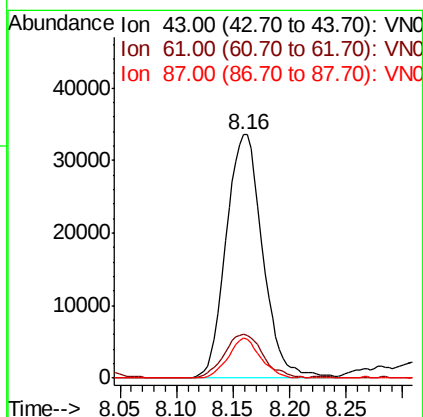
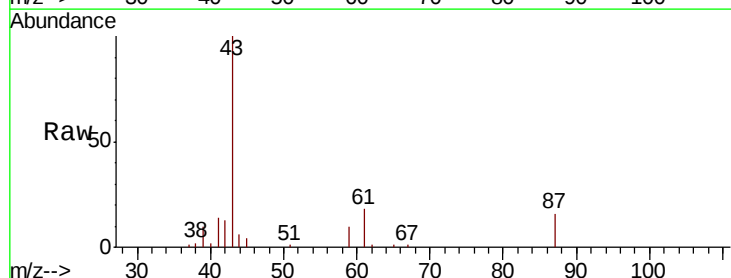
Instrument :
MSVOA_N
ClientSampled :
T4-S-D1-(2.5)

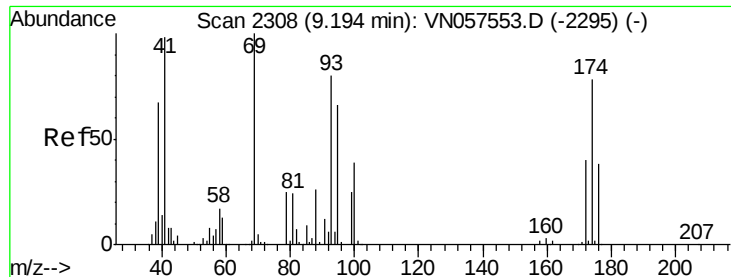
Tgt Ion: 41 Resp: 142
Ion Ratio Lower Upper
41 100
39 0.0 53.6 80.4#
67 21.1 65.4 98.2#
52 0.0 29.8 44.6#



#43
Isopropyl Acetate
Concen: 6.255 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

Tgt Ion: 43 Resp: 75843
Ion Ratio Lower Upper
43 100
61 19.0 14.5 21.7
87 14.4 8.6 12.8#

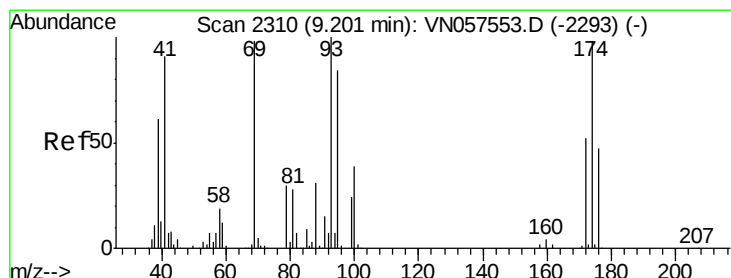
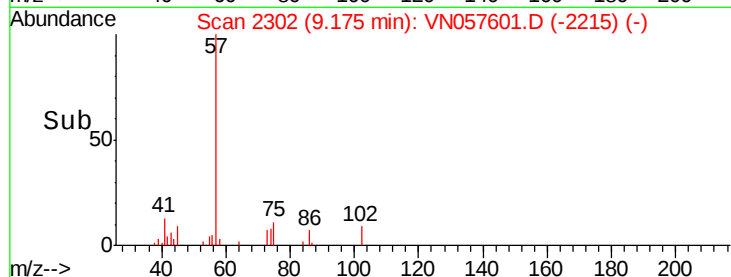
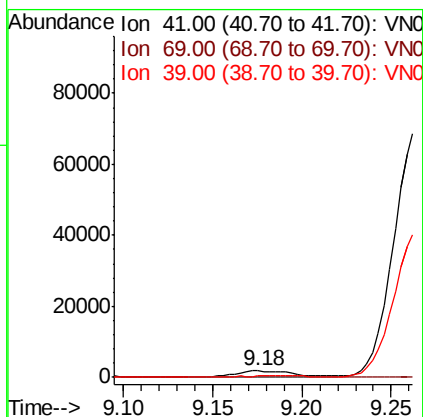
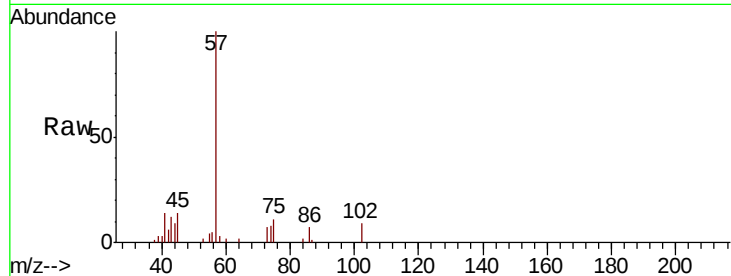




#48
Methyl methacrylate
Concen: 0.761 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

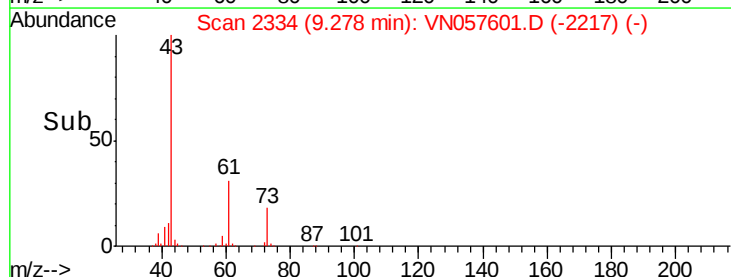
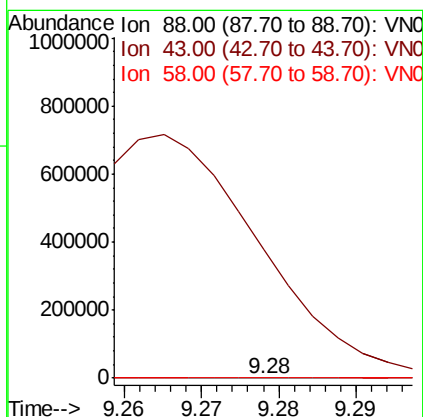
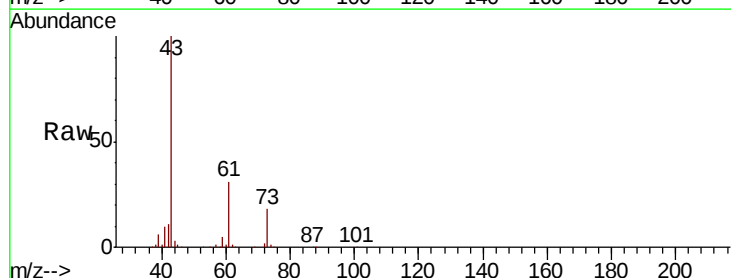
Instrument :
MSVOA_N
ClientSampleId :
T4-S-D1-(2.5)

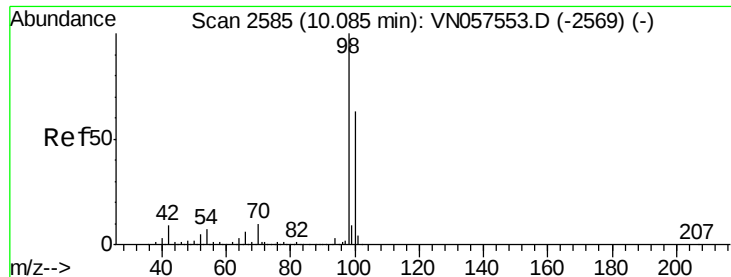
Tgt Ion: 41 Resp: 4359
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 50.6 75.8#



#49
1,4-Dioxane
Concen: 0.919 ug/l
RT: 9.28 min Scan# 2334
Delta R.T. 0.08 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

Tgt Ion: 88 Resp: 96
Ion Ratio Lower Upper
88 100
43 1339925.0 31.0 46.6#
58 6110.4 64.5 96.7#





#50

Toluene-d8

Concen: 38.873 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampleId :

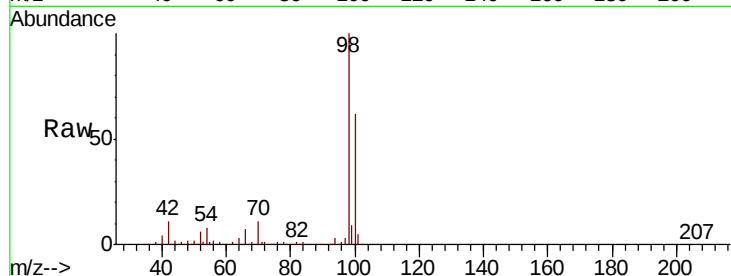
T4-S-D1-(2.5)

Tgt Ion: 98 Resp: 1113913

Ion Ratio Lower Upper

98 100

100 62.0 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN057553.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057553.D (-2569) (-)

10.09

600000

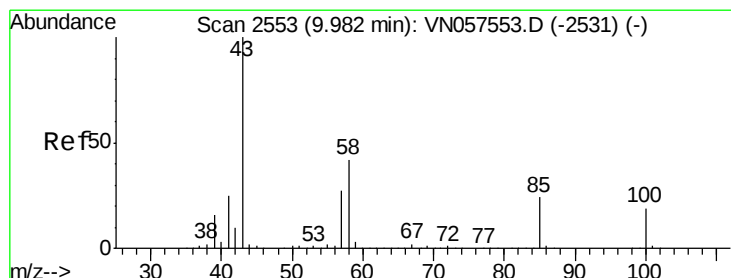
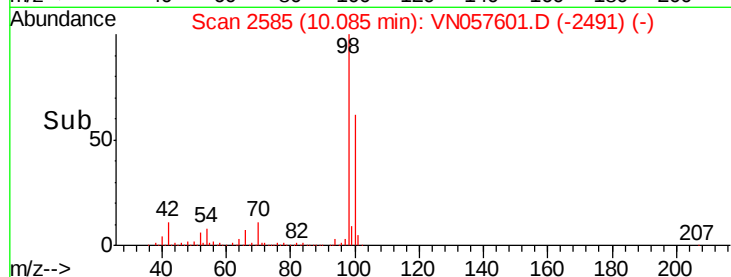
400000

200000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.802 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN057601.D

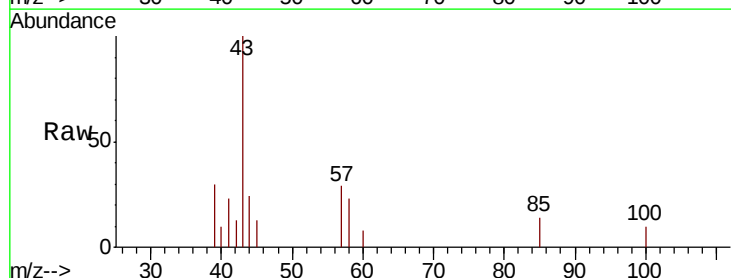
Acq: 30 Aug 2019 20:54

Tgt Ion: 43 Resp: 5199

Ion Ratio Lower Upper

43 100

58 30.3 27.9 41.9



Abundance Ion 43.00 (42.70 to 43.70): VN057553.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN057553.D (-2531) (-)

9.99

6000

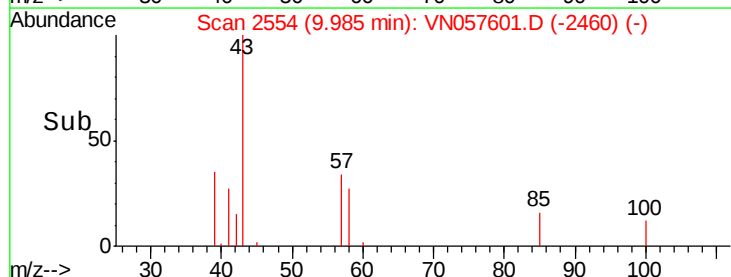
4000

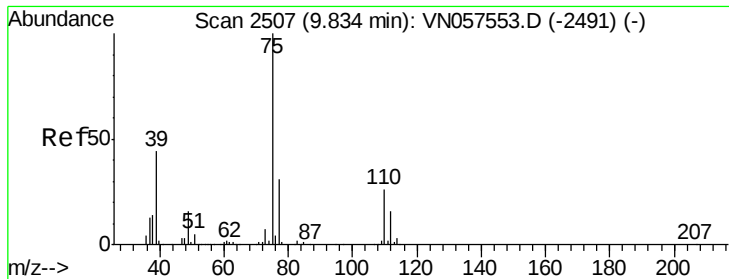
2000

0

Time-->

9.95 10.00





#54

cis-1,3-Dichloropropene

Concen: 3.239 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D1-(2.5)

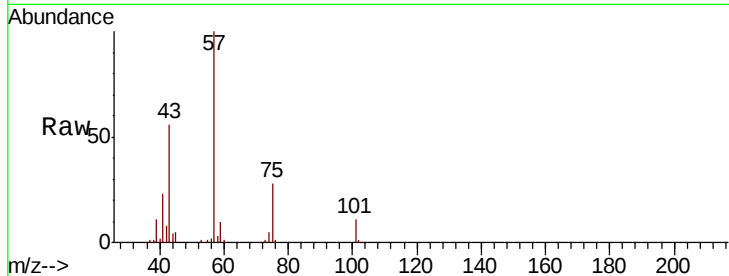
Tgt Ion: 75 Resp: 38452

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

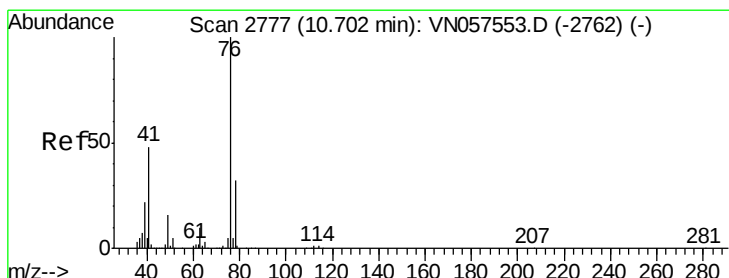
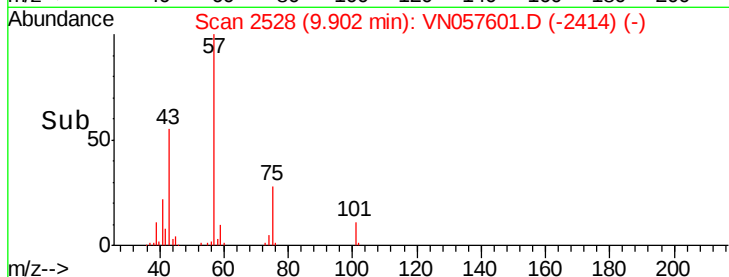
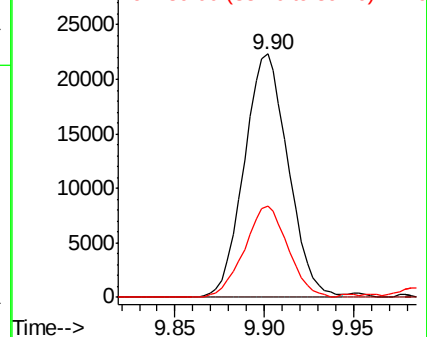
39 37.3 49.2 73.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.571 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057601.D

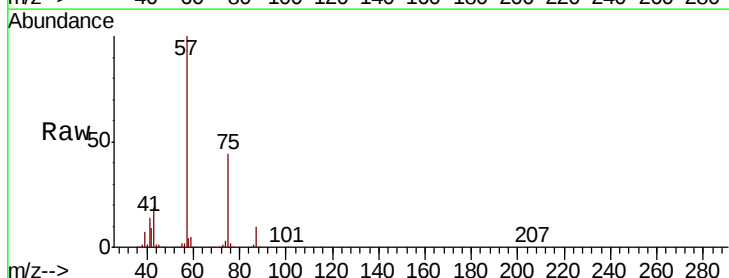
Acq: 30 Aug 2019 20:54

Tgt Ion: 76 Resp: 6819

Ion Ratio Lower Upper

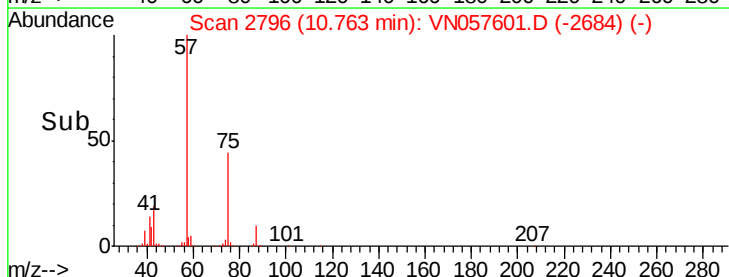
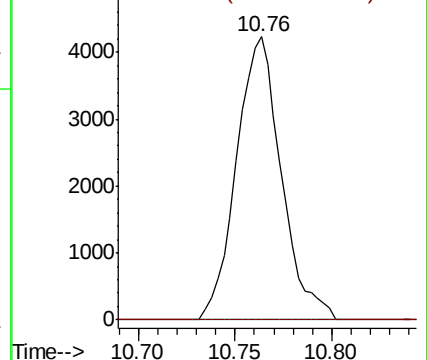
76 100

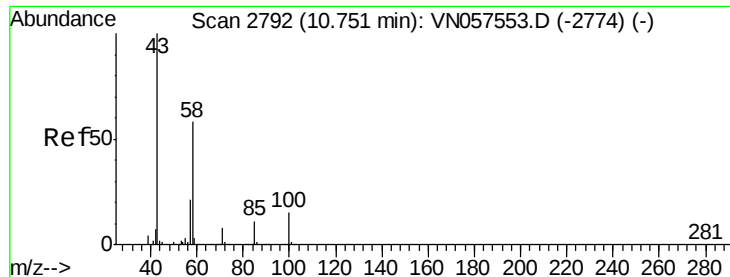
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

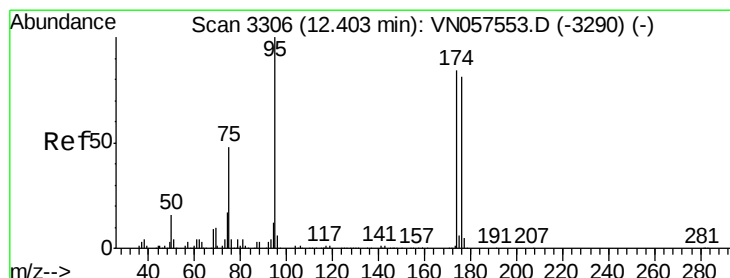
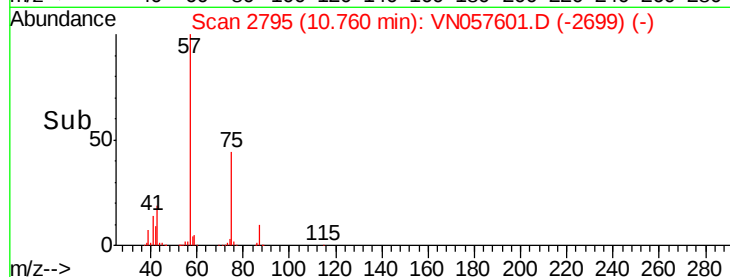
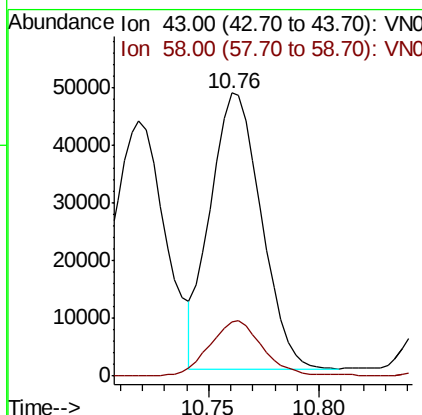
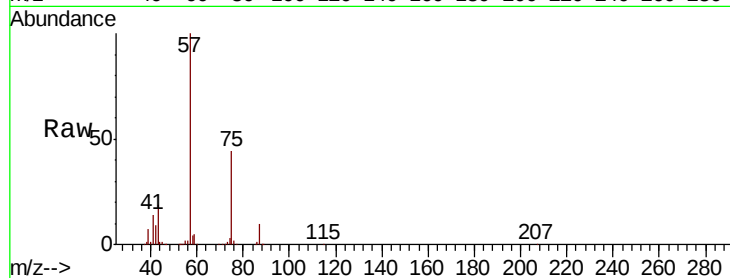




#59
2-Hexanone
Concen: 17.187 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

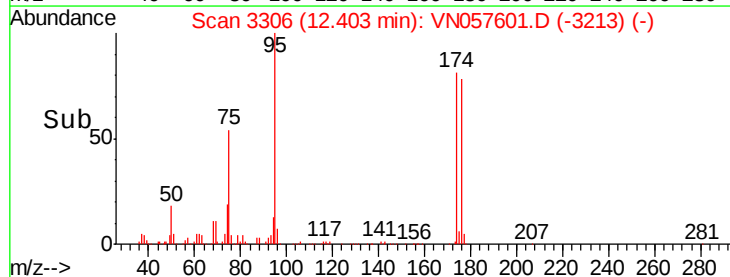
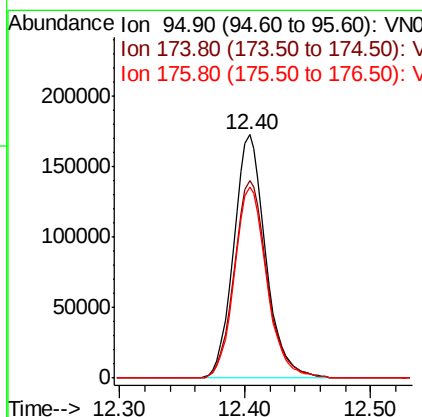
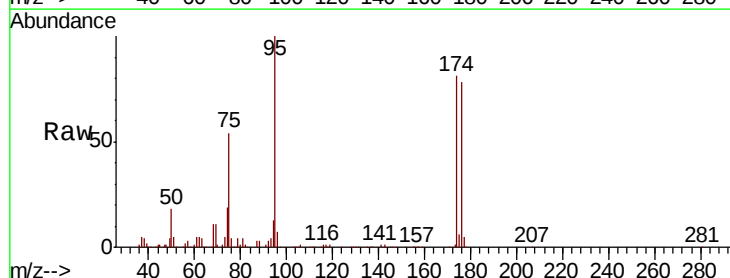
Instrument :
MSVOA_N
ClientSampled :
T4-S-D1-(2.5)

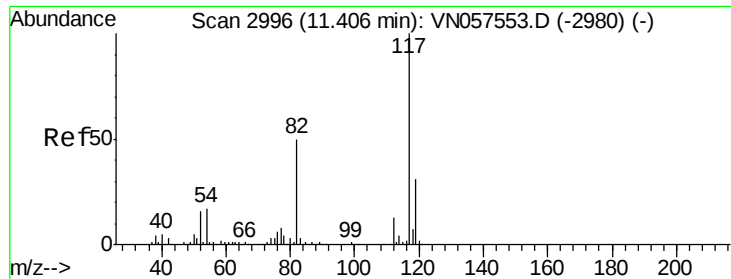
Tgt Ion: 43 Resp: 76898
Ion Ratio Lower Upper
43 100
58 20.7 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 31.775 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057601.D
Acq: 30 Aug 2019 20:54

Tgt Ion: 95 Resp: 305639
Ion Ratio Lower Upper
95 100
174 83.7 0.0 133.0
176 79.6 0.0 130.8

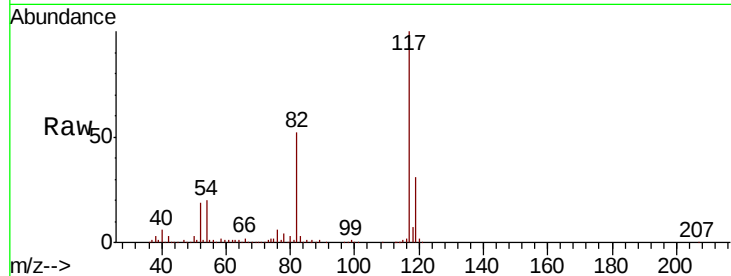




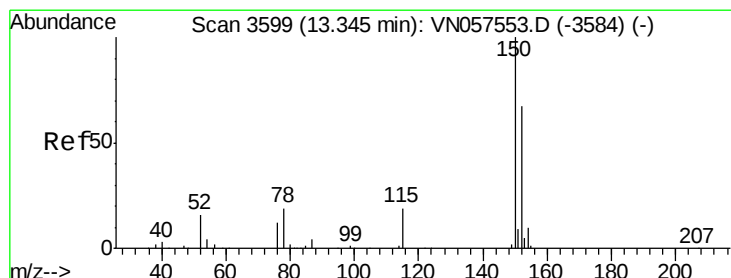
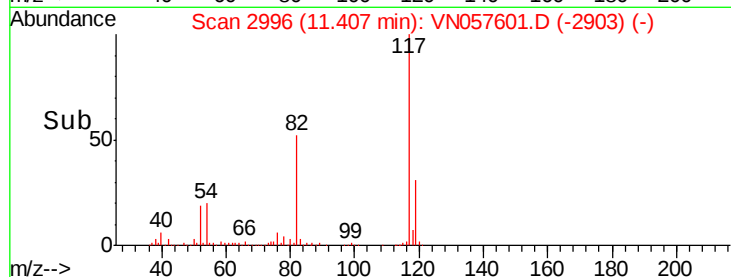
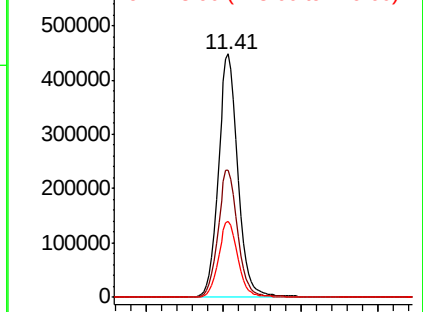
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D1-(2.5)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	50.6	75.8
119	31.3	24.6	36.8

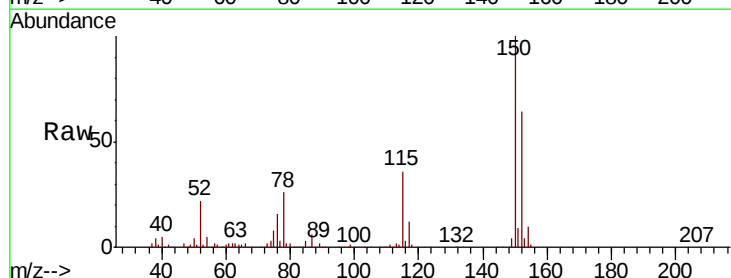


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

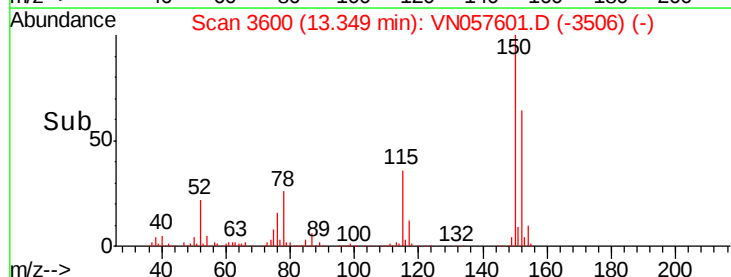
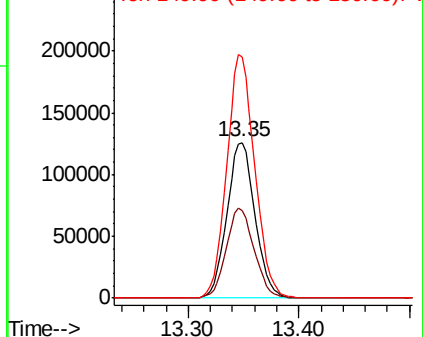


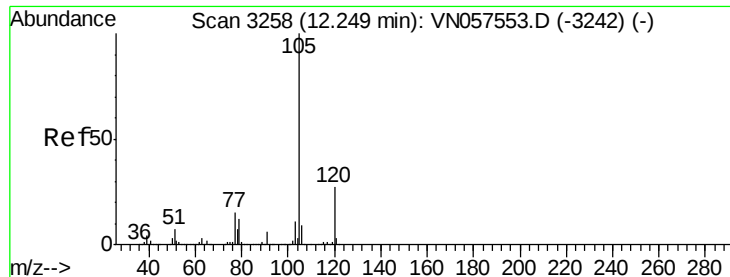
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	32.0	96.0
150	155.5	0.0	346.6



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampleId :

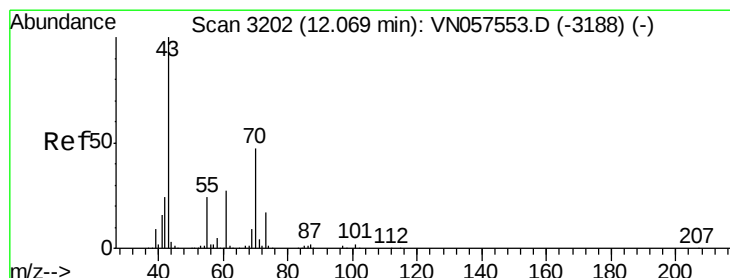
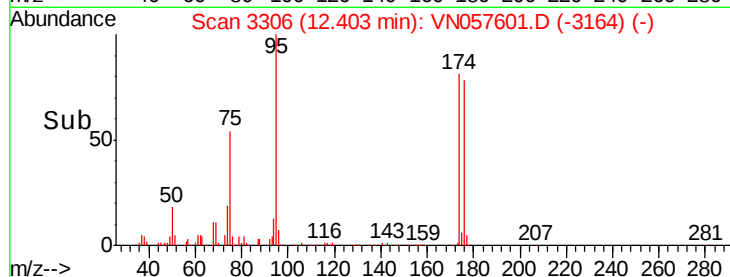
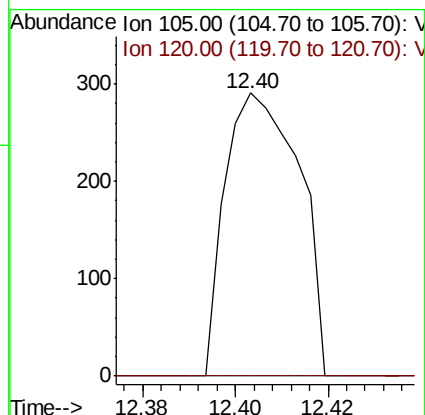
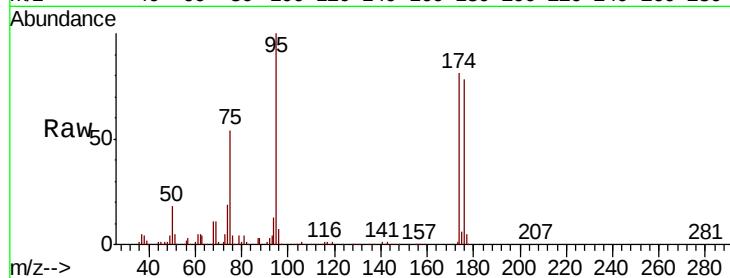
T4-S-D1-(2.5)

Tgt Ion: 105 Resp: 321

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.0#



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Tgt Ion: 43 Resp: 2896

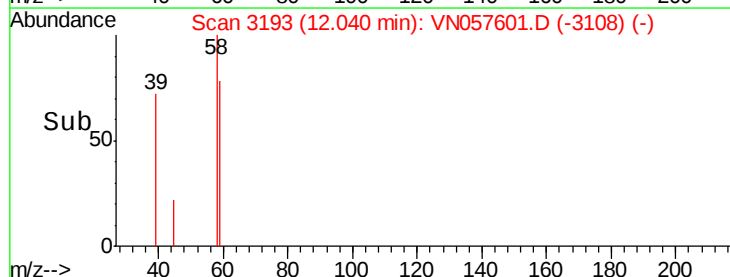
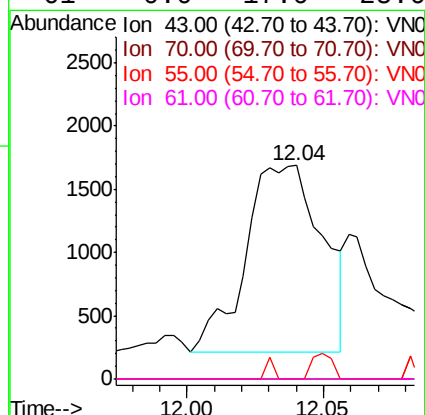
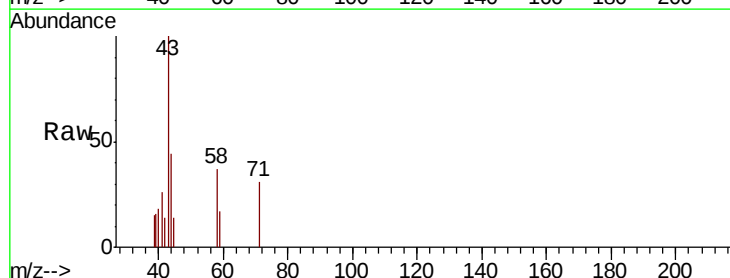
Ion Ratio Lower Upper

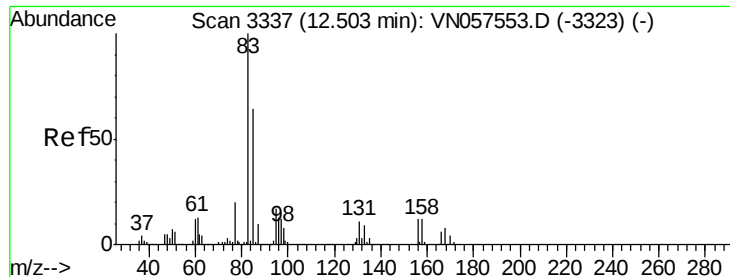
43 100

70 0.0 27.8 41.6#

55 3.6 17.0 25.4#

61 0.0 17.0 25.6#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D1-(2.5)

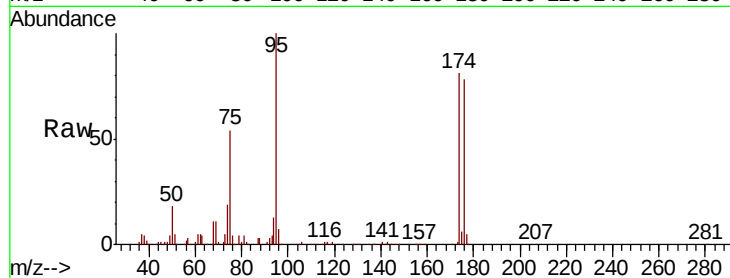
Tgt Ion: 83 Resp: 300

Ion Ratio Lower Upper

83 100

131 105.0 4.3 13.1#

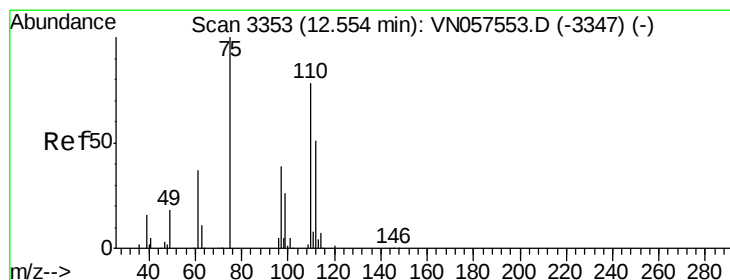
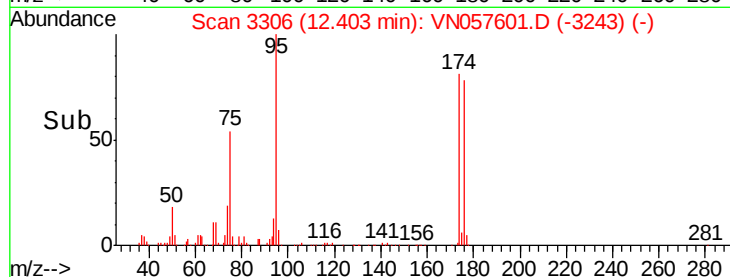
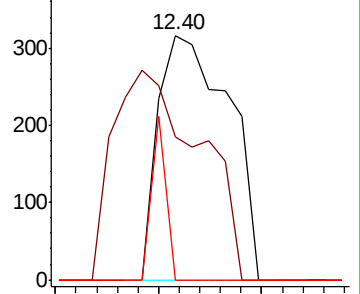
85 13.7 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 40.110 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057601.D

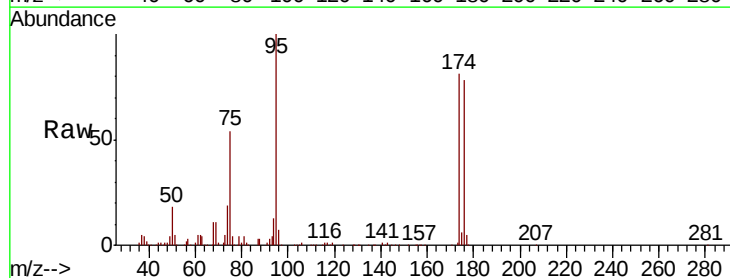
Acq: 30 Aug 2019 20:54

Tgt Ion: 75 Resp: 166522

Ion Ratio Lower Upper

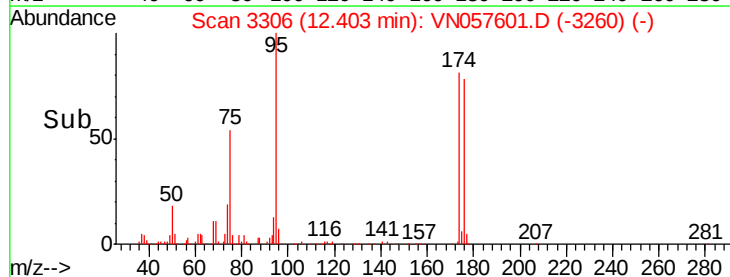
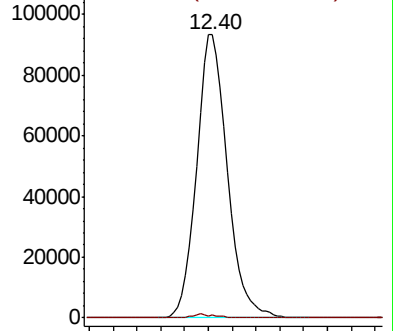
75 100

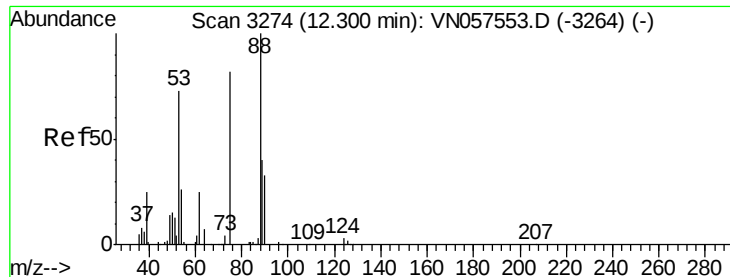
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

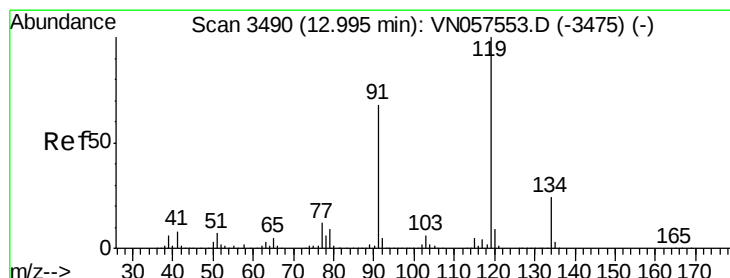
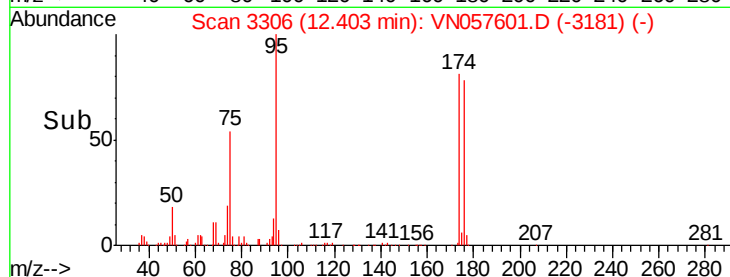
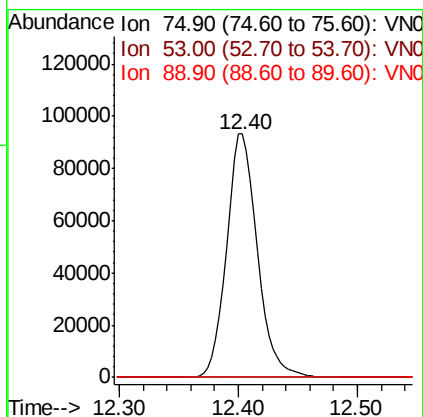
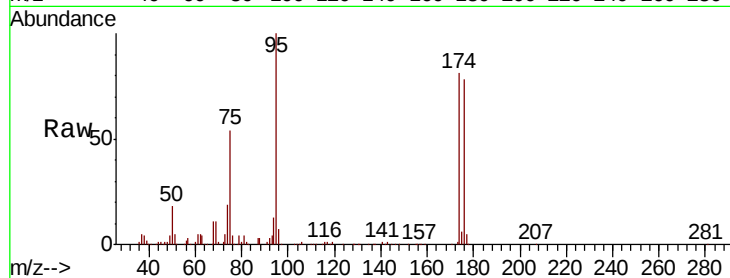




#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.740 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

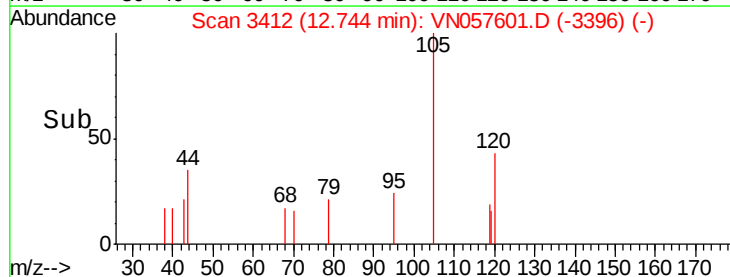
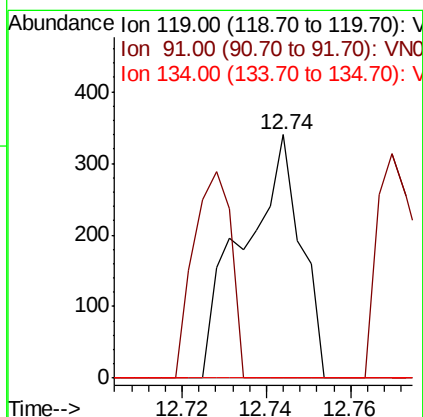
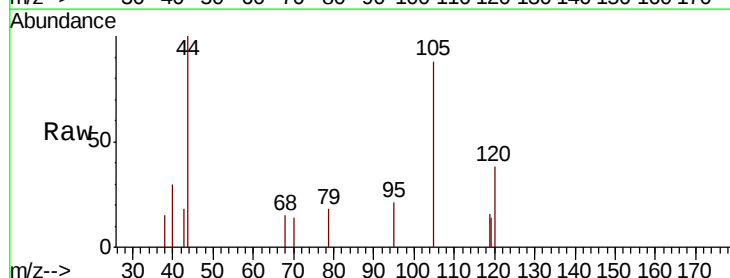
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D1-(2.5)

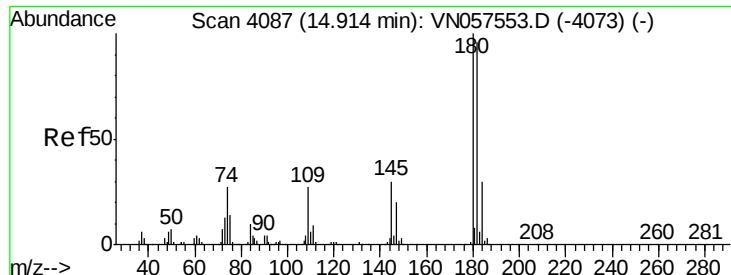
Tgt Ion: 75 Resp: 166522
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.7 124.1#
 89 0.0 35.8 53.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.74 min Scan# 3412
 Delta R.T. -0.25 min
 Lab File: VN057601.D
 Acq: 30 Aug 2019 20:54

Tgt Ion: 119 Resp: 322
 Ion Ratio Lower Upper
 119 100
 91 55.6 37.0 111.0
 134 0.0 12.2 36.6#





#93

1,2,4-Trichlorobenzene

Concen: 3.933 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN057601.D

Acq: 30 Aug 2019 20:54

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D1-(2.5)

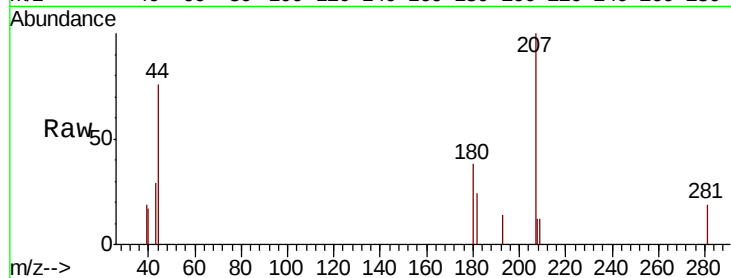
Tgt Ion:180 Resp: 498

Ion Ratio Lower Upper

180 100

182 82.7 46.7 140.1

145 0.0 15.6 46.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

