

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083119\
 Data File : VN057598.D
 Acq On : 30 Aug 2019 19:37
 Operator : JC/SP
 Sample : K4517-21
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-S-A2-(0)

Quant Time: Aug 31 00:49:57 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

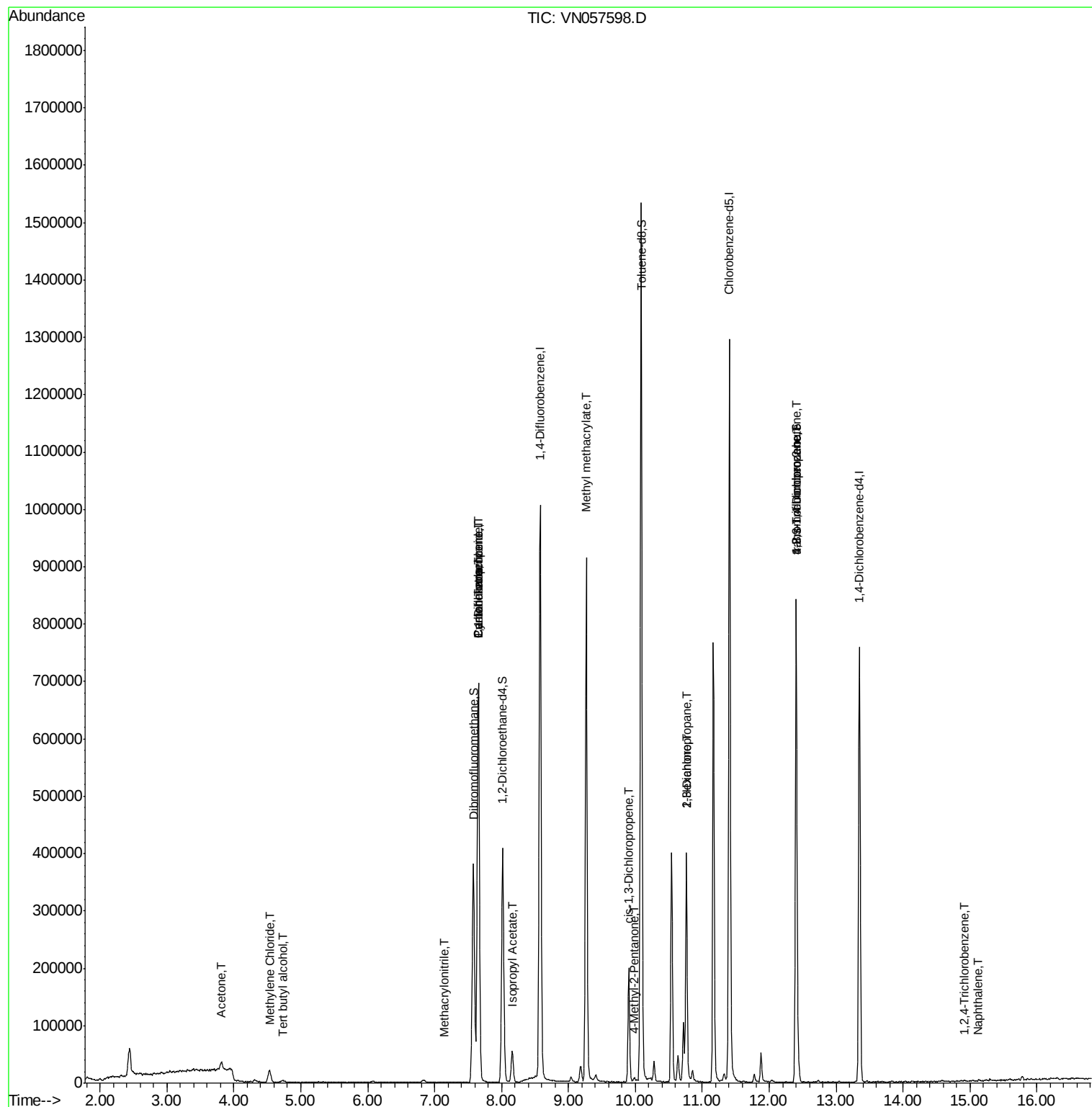
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	576033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	912619	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	780267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	215411	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	351776	37.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.62%	
35) Dibromofluoromethane	7.58	113	274812	33.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.38%	
50) Toluene-d8	10.09	98	1089902	37.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.54%	
62) 4-Bromofluorobenzene	12.40	95	294510	30.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.82%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	1203	1.294	ug/l #	70
16) Acetone	3.81	43	14637	3.841	ug/l	94
18) Methyl Acetate	4.31	43	6314	Below Cal		97
20) Methylene Chloride	4.54	84	15413	2.183	ug/l #	77
31) Cyclohexane	7.66	56	12094	1.104	ug/l #	12
36) 1,1-Dichloropropene	7.65	75	44137	4.471	ug/l #	48
38) Carbon Tetrachloride	7.65	117	54057	4.682	ug/l #	15
41) Methacrylonitrile	7.14	41	29	1.276	ug/l #	17
43) Isopropyl Acetate	8.16	43	67121	5.498	ug/l #	96
48) Methyl methacrylate	9.26	41	85087	14.756	ug/l #	52
51) 4-Methyl-2-Pentanone	9.99	43	4464	0.684	ug/l #	85
54) cis-1,3-Dichloropropene	9.90	75	37241	3.115	ug/l #	57
57) 1,3-Dichloropropane	10.76	76	3900	0.324	ug/l #	46
59) 2-Hexanone	10.76	43	55590	12.339	ug/l #	58
73) Isopropylbenzene	12.25	105	359	Below Cal	#	50
74) N-amyl acetate	12.08	43	574	Below Cal	#	64
75) 1,1,2,2-Tetrachloroethane	12.39	83	268	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	165192	41.105	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165192	115.311	ug/l #	8
83) tert-Butylbenzene	12.99	119	98	Below Cal	#	22
93) 1,2,4-Trichlorobenzene	14.92	180	573	3.960	ug/l	68
95) Naphthalene	15.13	128	1893	0.266	ug/l #	69

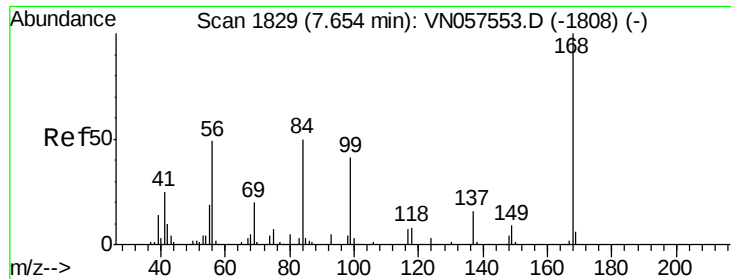
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 30 11:59:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

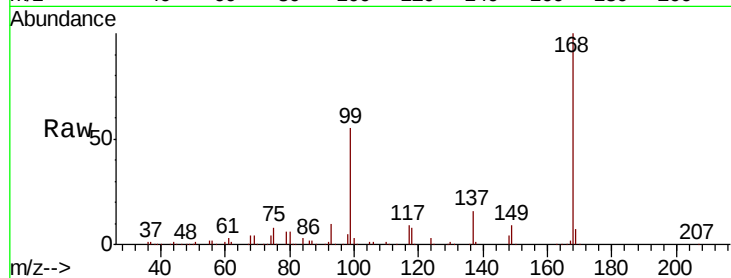
T2-S-A2-(0)

Tgt Ion:168 Resp: 576033

Ion Ratio Lower Upper

168 100

99 55.5 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

250000

200000

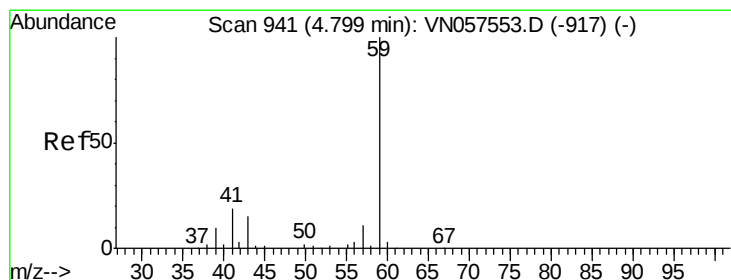
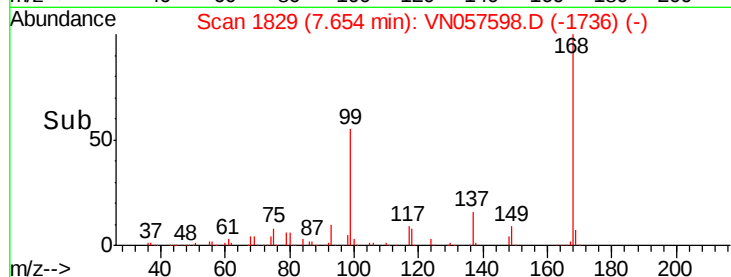
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.294 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.06 min

Lab File: VN057598.D

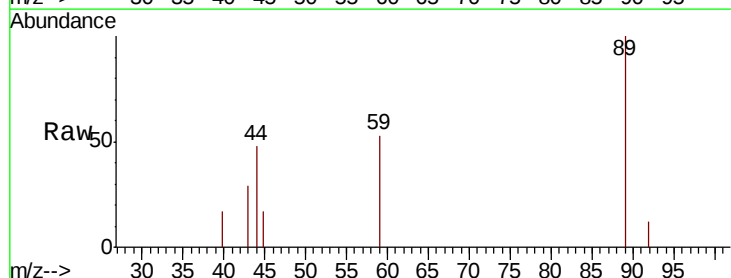
Acq: 30 Aug 2019 19:37

Tgt Ion: 59 Resp: 1203

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

800

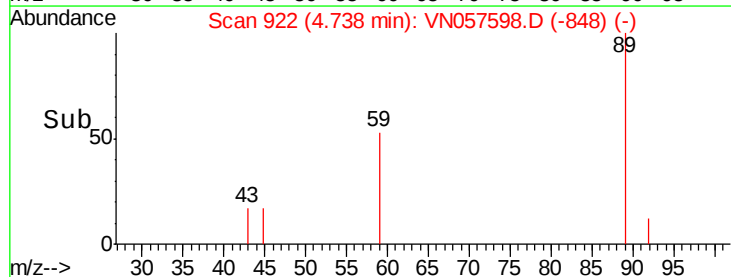
600

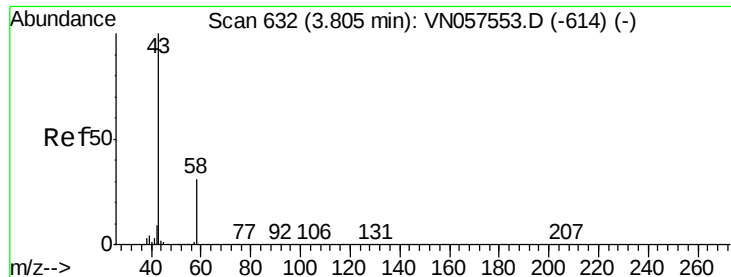
400

200

0

Time-->

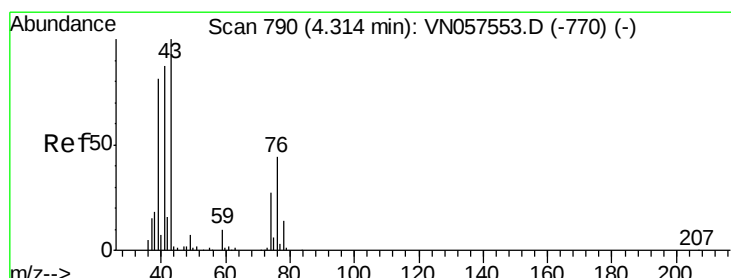
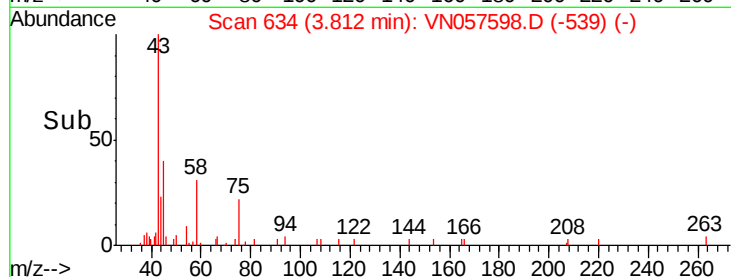
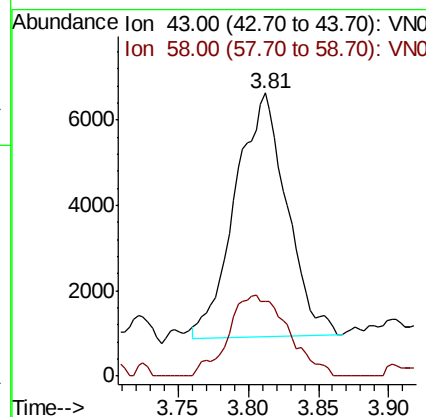
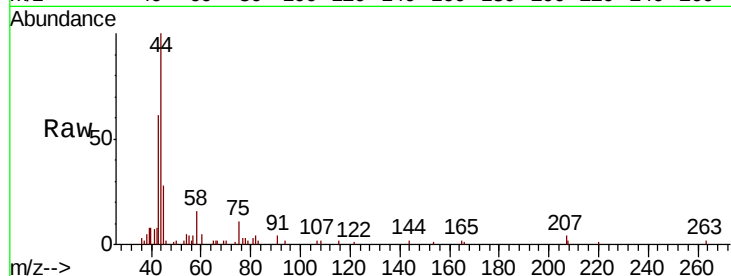




#16
Acetone
Concen: 3.841 ug/l
RT: 3.81 min Scan# 634
Delta R.T. 0.01 min
Lab File: VN057598.D
Acq: 30 Aug 2019 19:37

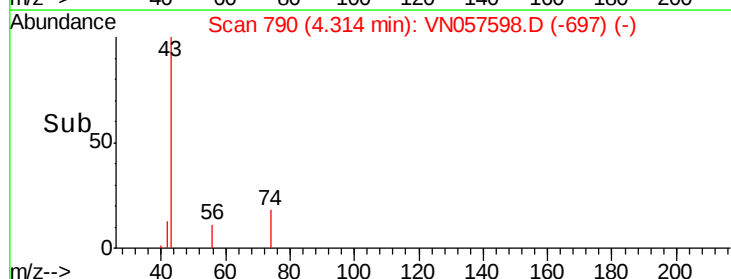
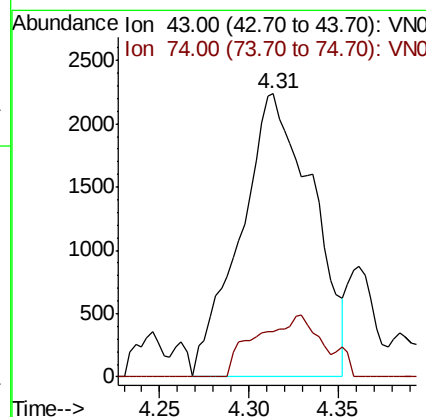
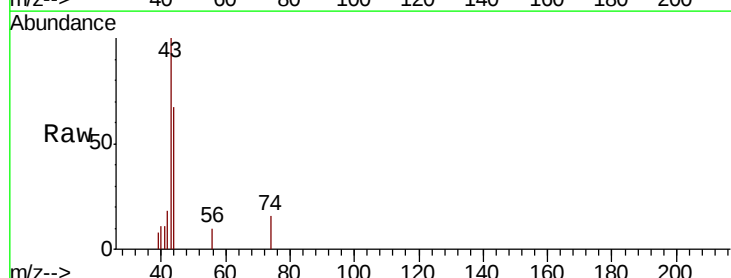
Instrument :
MSVOA_N
ClientSampleId :
T2-S-A2-(0)

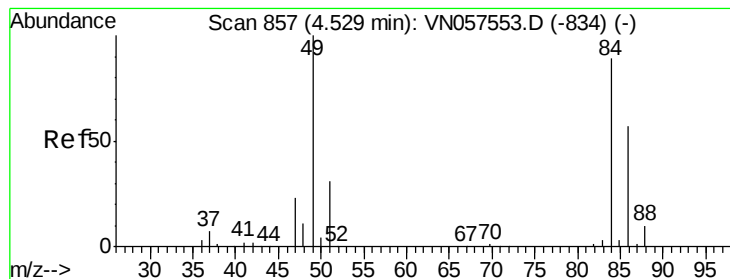
Tgt Ion: 43 Resp: 14637
Ion Ratio Lower Upper
43 100
58 30.8 22.1 33.1



#18
Methyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN057598.D
Acq: 30 Aug 2019 19:37

Tgt Ion: 43 Resp: 6314
Ion Ratio Lower Upper
43 100
74 18.5 15.9 23.9





#20

Methylene Chloride

Concen: 2.183 ug/l

RT: 4.54 min Scan# 859

Delta R.T. 0.01 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

T2-S-A2-(0)

Tgt Ion: 84 Resp: 15413

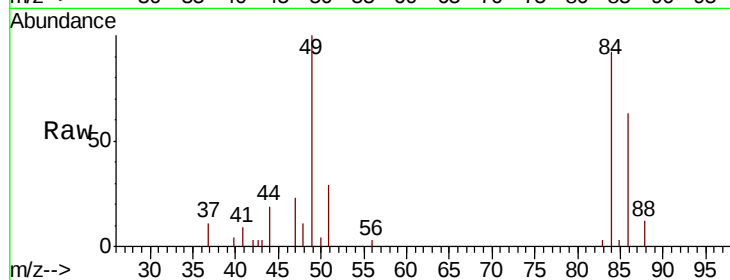
Ion Ratio Lower Upper

84 100

49 108.3 117.0 175.4#

51 31.5 35.5 53.3#

86 67.8 49.8 74.8



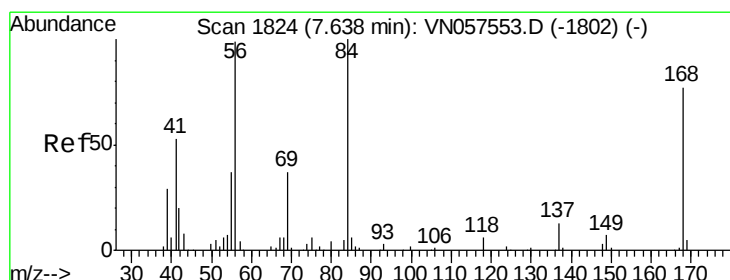
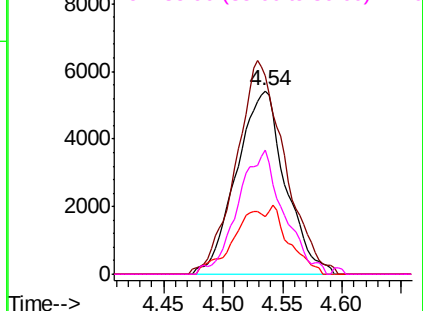
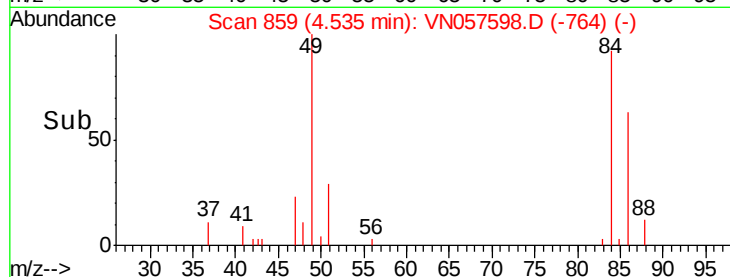
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31

Cyclohexane

Concen: 1.104 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.02 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

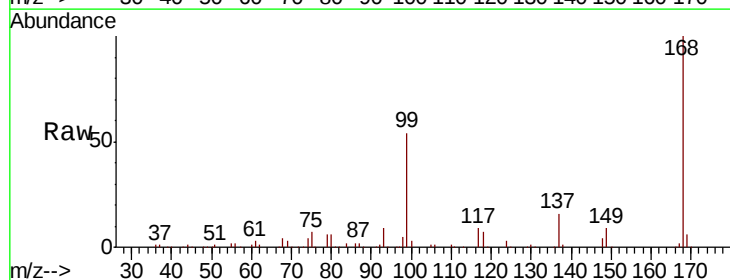
Tgt Ion: 56 Resp: 12094

Ion Ratio Lower Upper

56 100

69 156.5 25.0 37.6#

84 105.8 62.5 93.7#

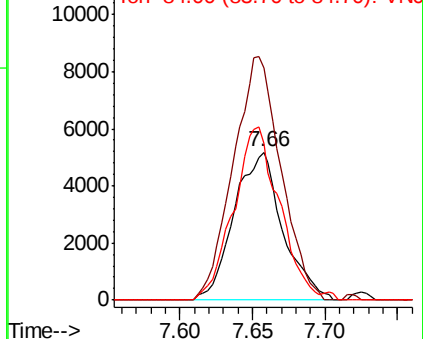
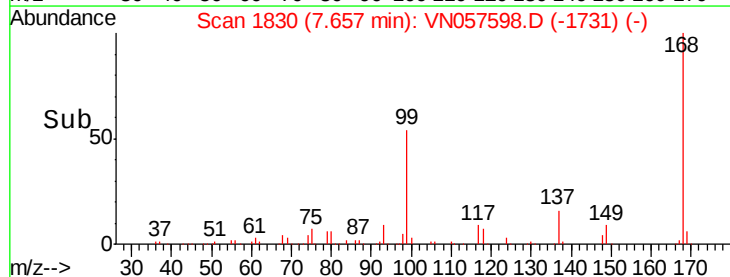


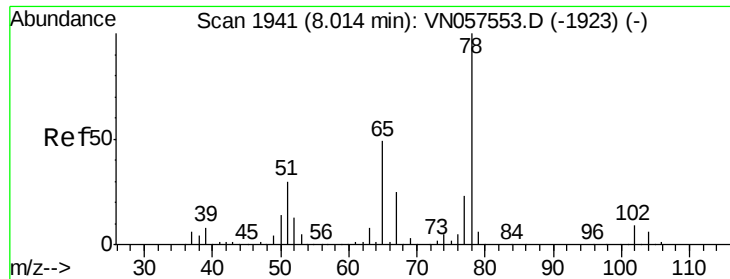
Abundance

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: 37.311 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

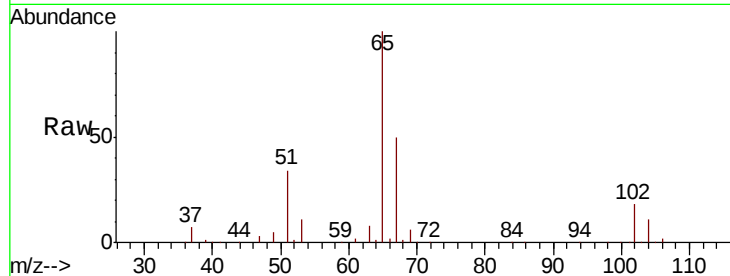
T2-S-A2-(0)

Tgt Ion: 65 Resp: 351776

Ion Ratio Lower Upper

65 100

67 49.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN057553.D (-1923) (-)

Ion 66.90 (66.60 to 67.60): VN057553.D (-1923) (-)

8.02

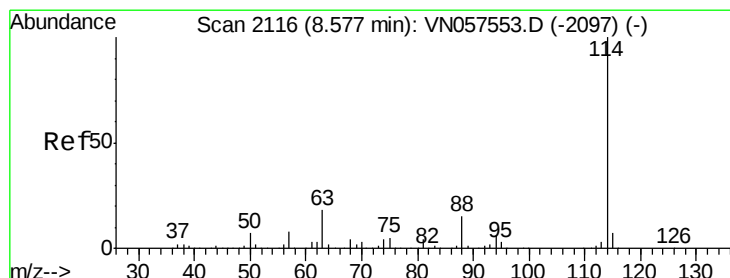
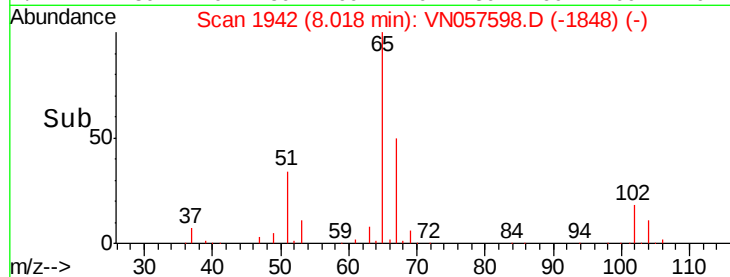
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

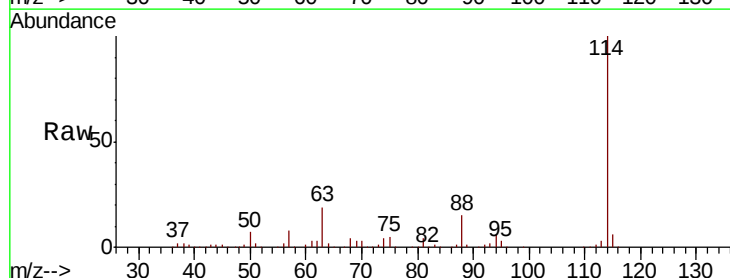
Tgt Ion: 114 Resp: 912619

Ion Ratio Lower Upper

114 100

63 18.8 0.0 50.2

88 14.8 0.0 34.6



Abundance Ion 113.90 (113.60 to 114.60): VN057553.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057553.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057553.D (-2097) (-)

8.58

600000

500000

400000

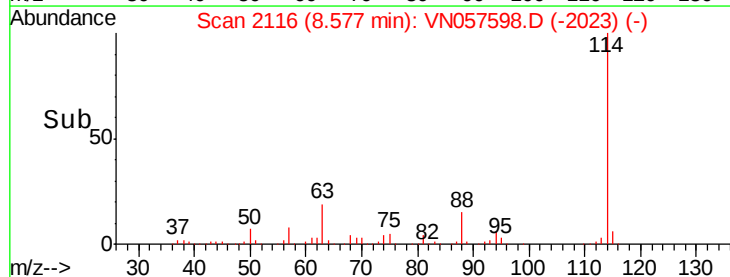
300000

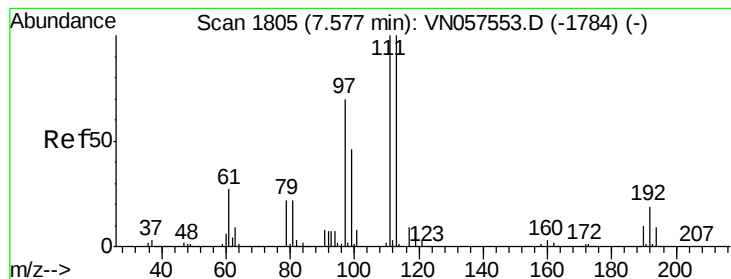
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 33.690 ug/l

RT: 7.58 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

T2-S-A2-(0)

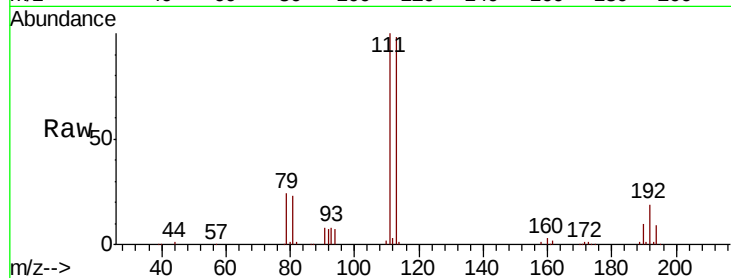
Tgt Ion:113 Resp: 274812

Ion Ratio Lower Upper

113 100

111 103.3 83.8 125.6

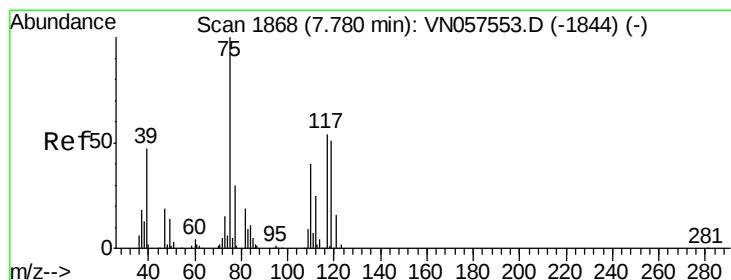
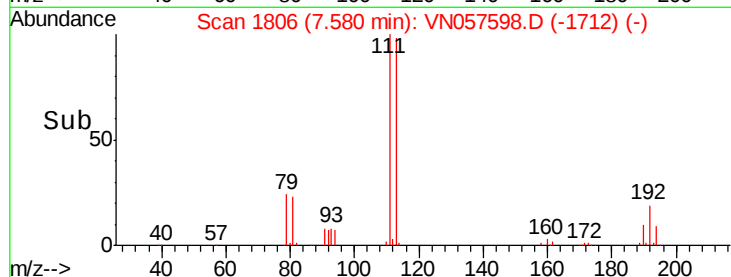
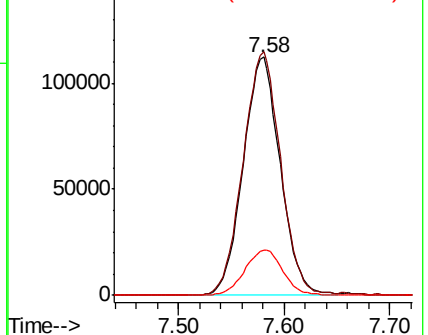
192 19.5 13.5 20.3



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: 4.471 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

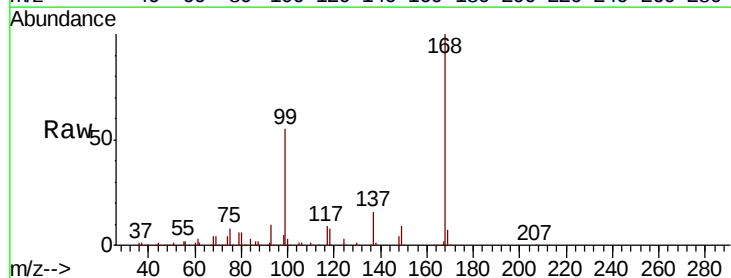
Tgt Ion: 75 Resp: 44137

Ion Ratio Lower Upper

75 100

110 5.6 16.1 48.3#

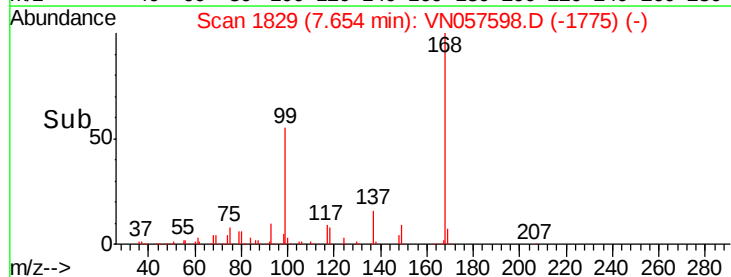
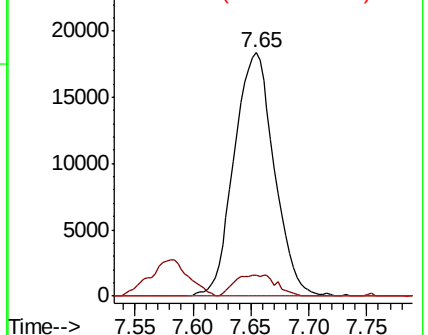
77 0.0 24.8 37.2#

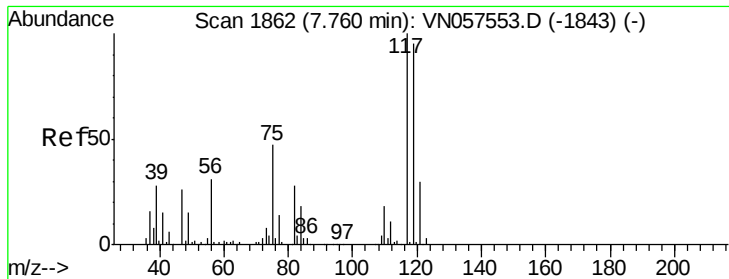


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 4.682 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

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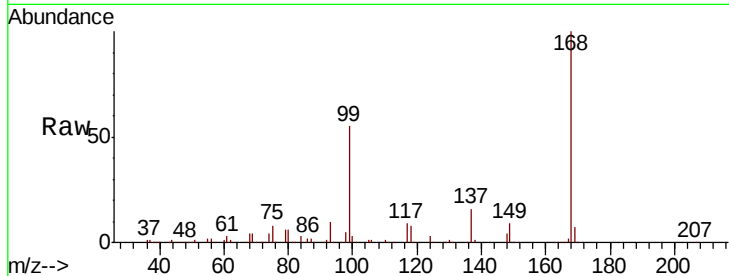
Tgt Ion:117 Resp: 54057

Ion Ratio Lower Upper

117 100

119 4.0 76.2 114.4#

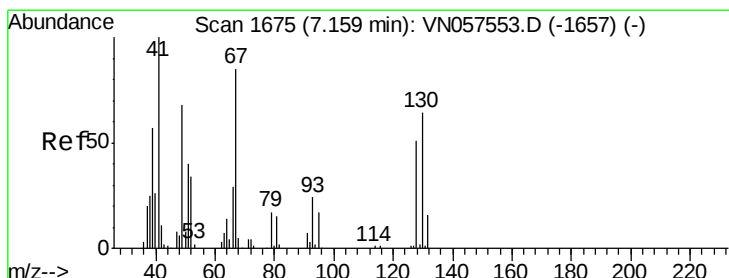
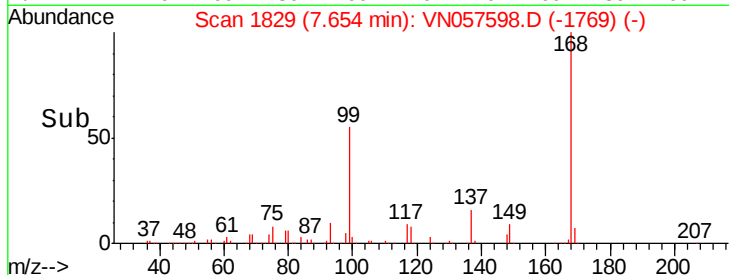
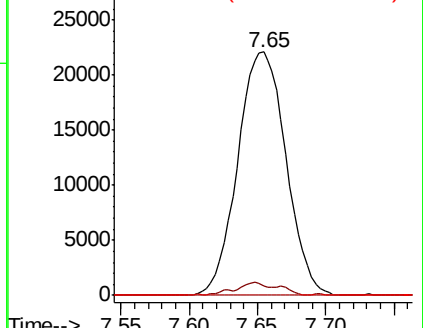
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.276 ug/l

RT: 7.14 min Scan# 1669

Delta R.T. -0.02 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Tgt Ion: 41 Resp: 29

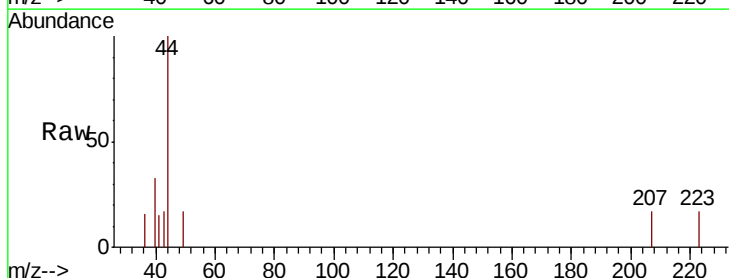
Ion Ratio Lower Upper

41 100

39 0.0 53.6 80.4#

67 0.0 65.4 98.2#

52 0.0 29.8 44.6#

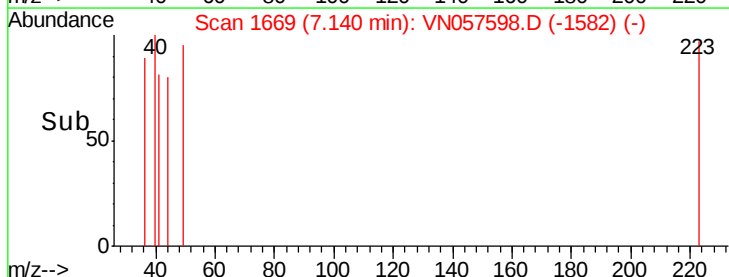
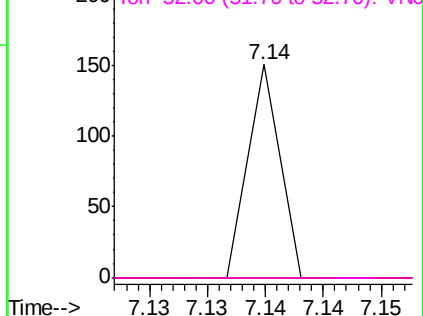


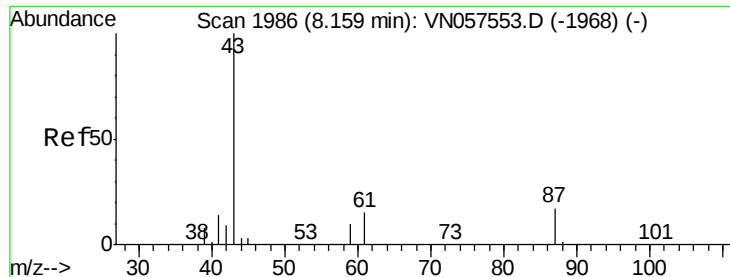
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 5.498 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

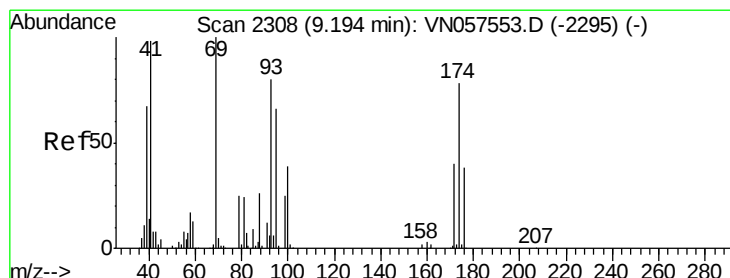
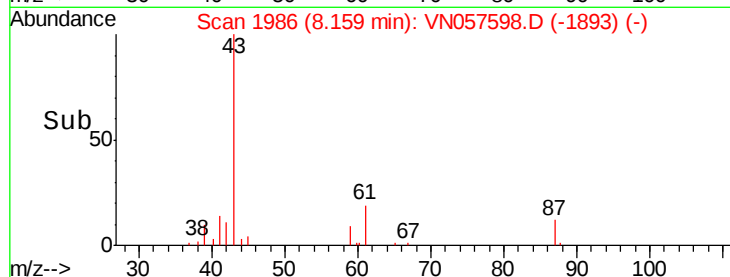
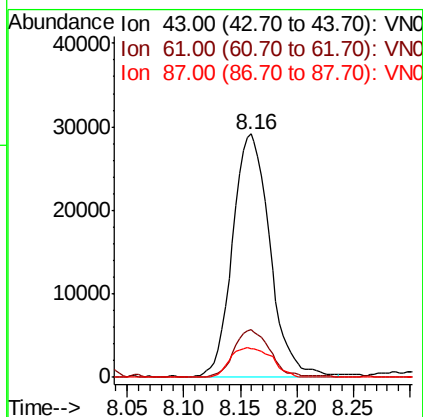
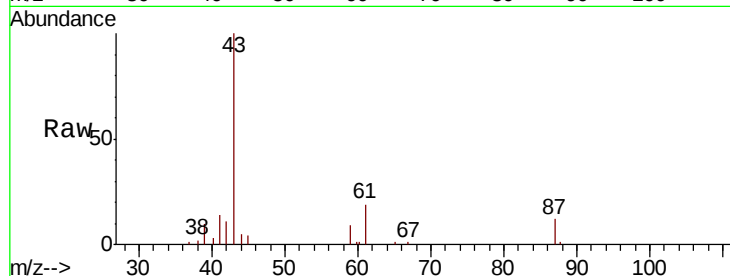
Instrument :

MSVOA_N

ClientSampleId :

T2-S-A2-(0)

Tgt Ion:	43	Resp:	67121
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.5	21.7
87	13.6	8.6	12.8#



#48

Methyl methacrylate

Concen: 14.756 ug/l

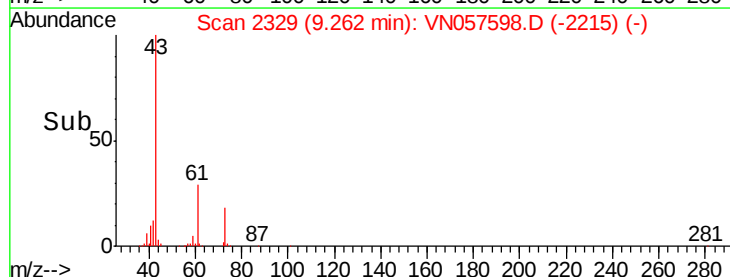
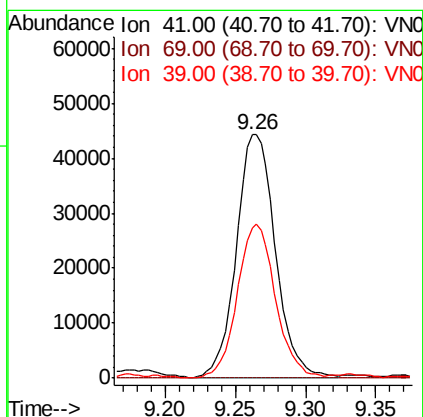
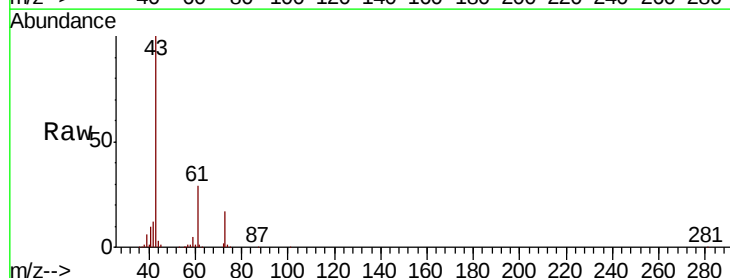
RT: 9.26 min Scan# 2329

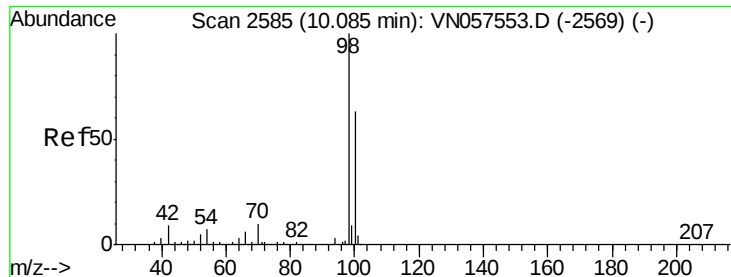
Delta R.T. 0.07 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Tgt Ion:	41	Resp:	85087
Ion	Ratio	Lower	Upper
41	100		
69	0.0	59.3	88.9#
39	62.4	50.6	75.8





#50

Toluene-d8

Concen: 37.775 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

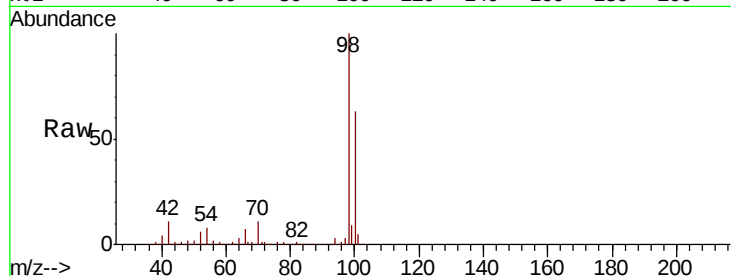
T2-S-A2-(0)

Tgt Ion: 98 Resp: 1089902

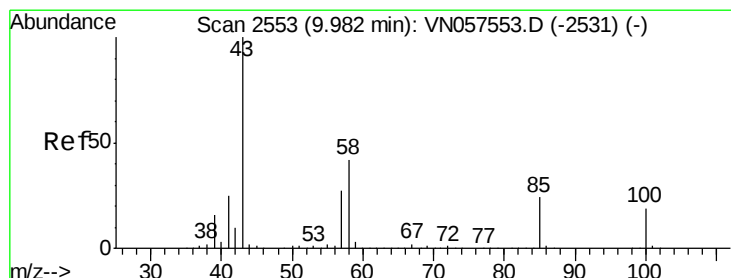
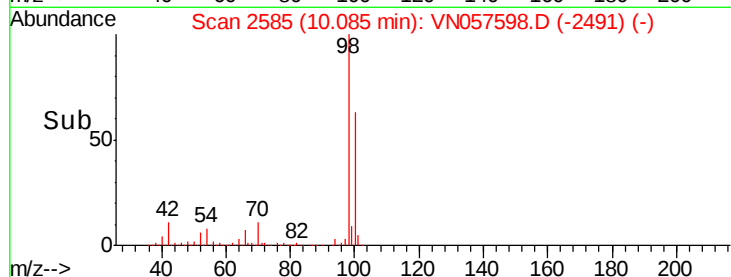
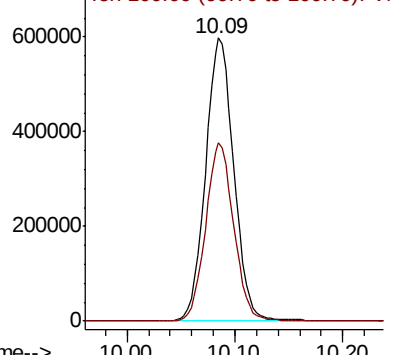
Ion Ratio Lower Upper

98 100

100 62.9 50.4 75.6



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



#51

4-Methyl-2-Pentanone

Concen: 0.684 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN057598.D

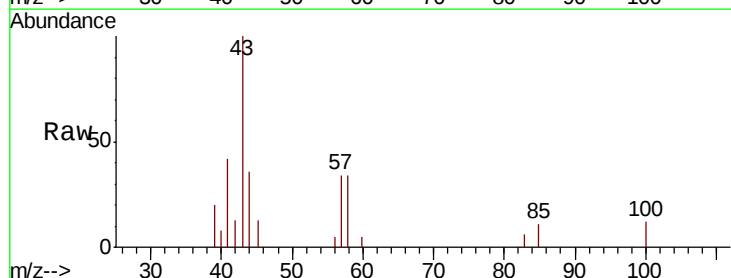
Acq: 30 Aug 2019 19:37

Tgt Ion: 43 Resp: 4464

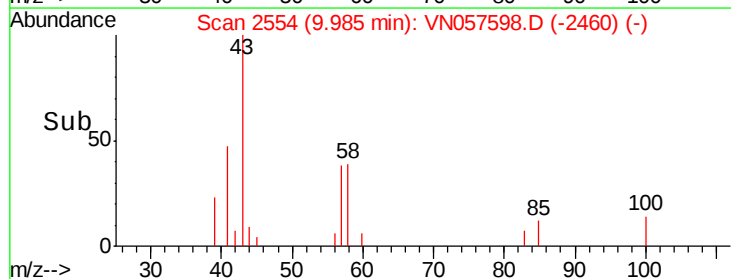
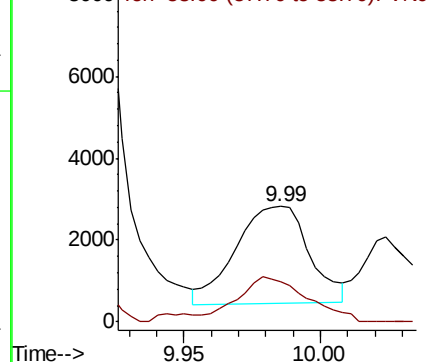
Ion Ratio Lower Upper

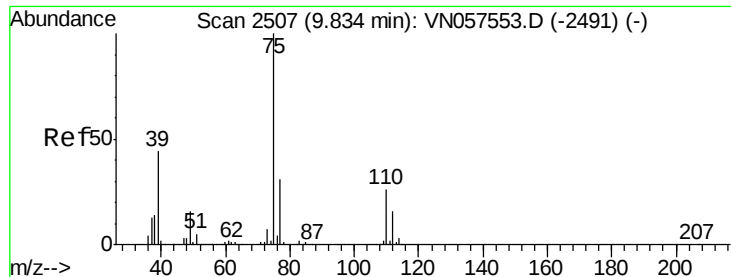
43 100

58 43.6 27.9 41.9#



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





#54

cis-1,3-Dichloropropene

Concen: 3.115 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

T2-S-A2-(0)

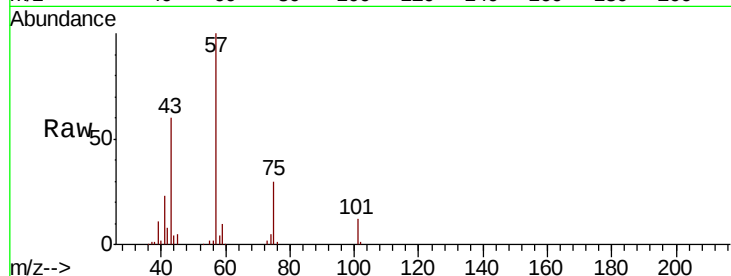
Tgt Ion: 75 Resp: 37241

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

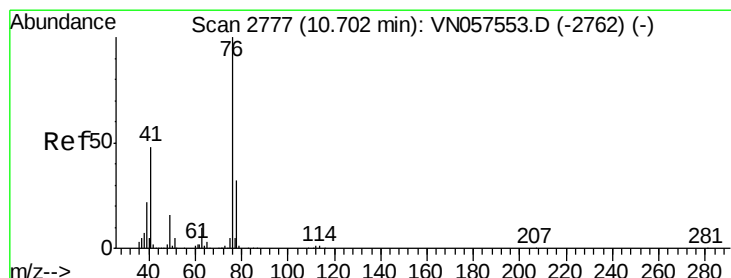
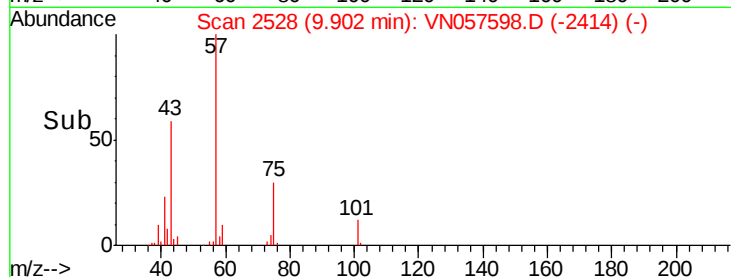
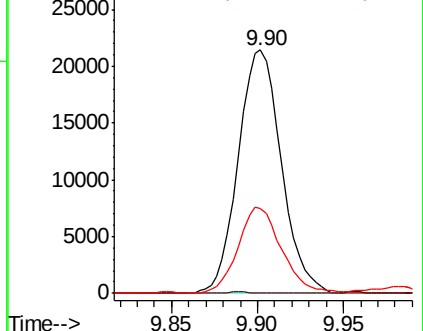
39 33.9 49.2 73.8#



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: 0.324 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057598.D

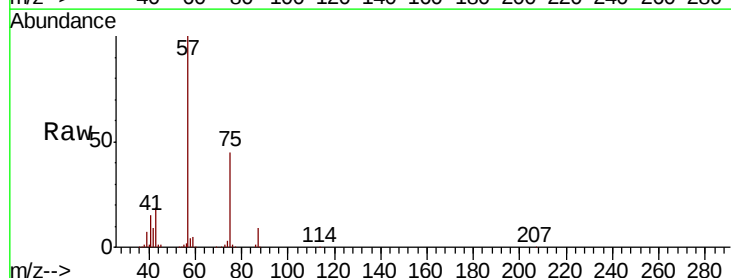
Acq: 30 Aug 2019 19:37

Tgt Ion: 76 Resp: 3900

Ion Ratio Lower Upper

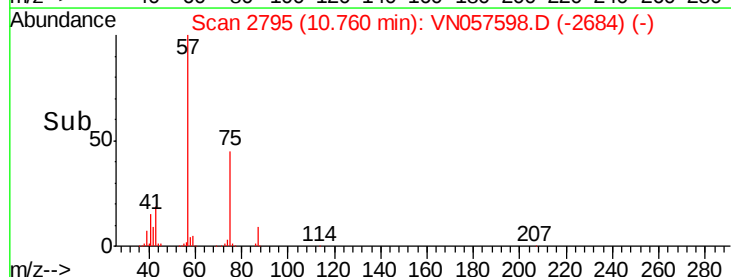
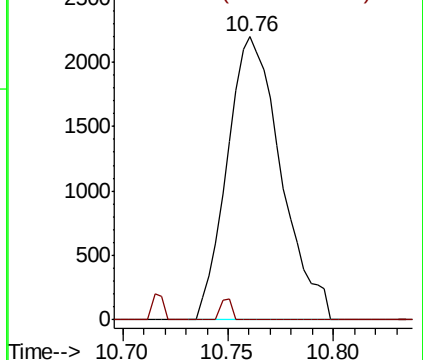
76 100

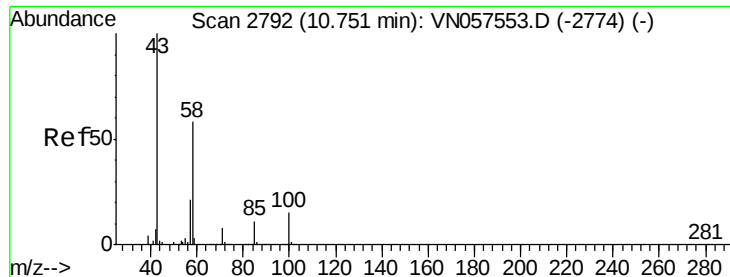
78 1.6 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

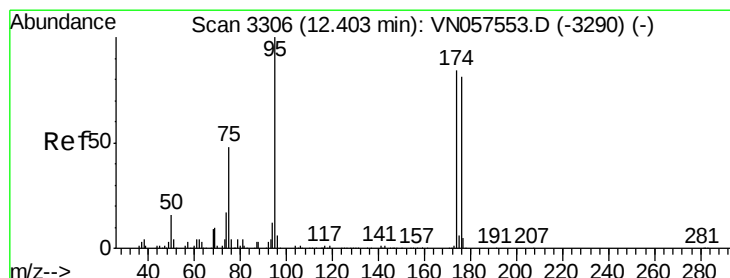
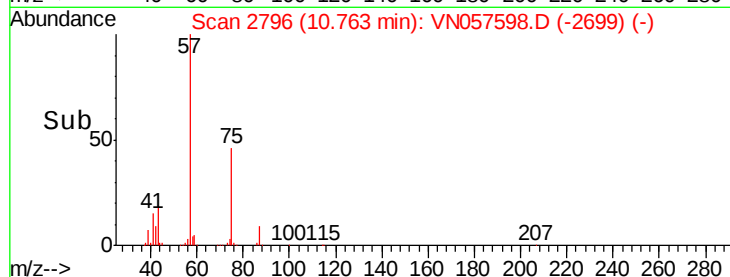
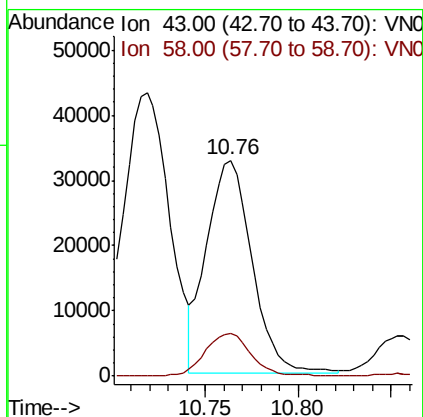
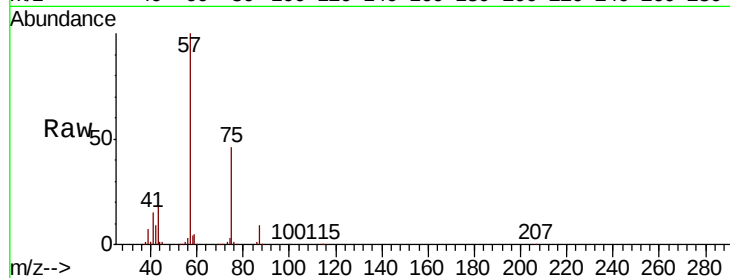




#59
2-Hexanone
Concen: 12.339 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057598.D
Acq: 30 Aug 2019 19:37

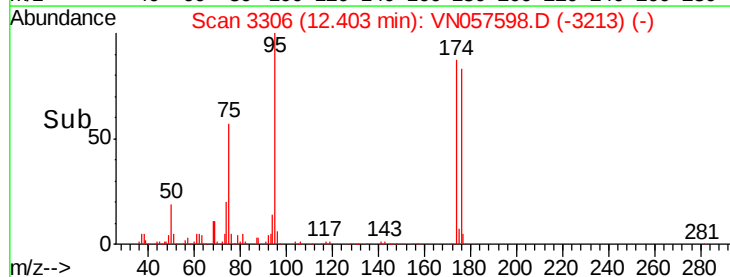
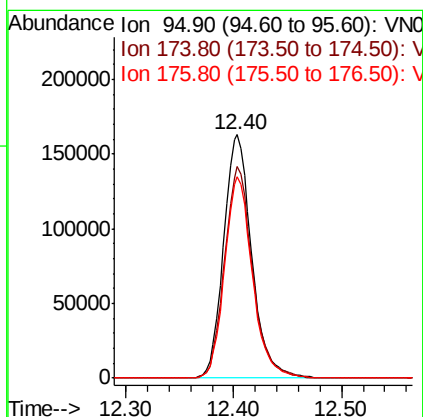
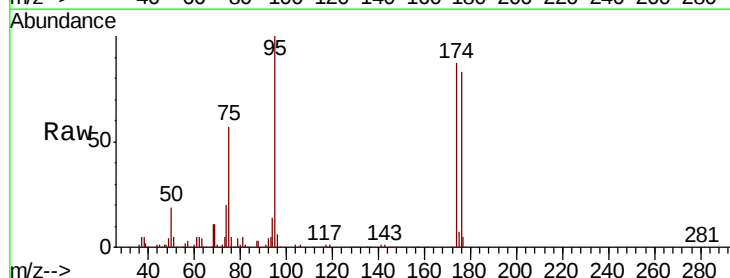
Instrument :
MSVOA_N
ClientSampleId :
T2-S-A2-(0)

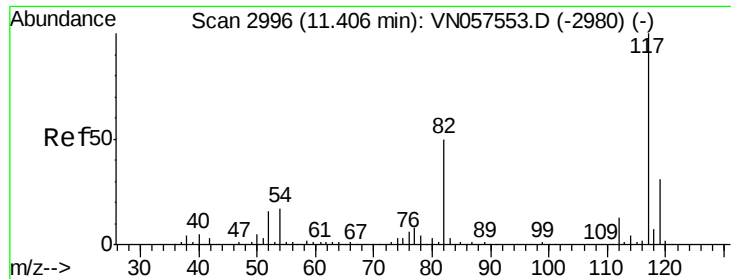
Tgt Ion: 43 Resp: 55590
Ion Ratio Lower Upper
43 100
58 20.4 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 30.408 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057598.D
Acq: 30 Aug 2019 19:37

Tgt Ion: 95 Resp: 294510
Ion Ratio Lower Upper
95 100
174 87.1 0.0 133.0
176 82.4 0.0 130.8

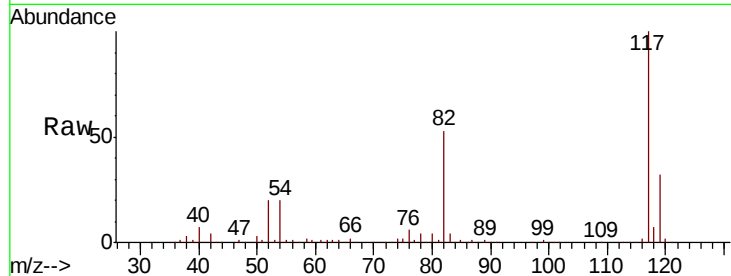




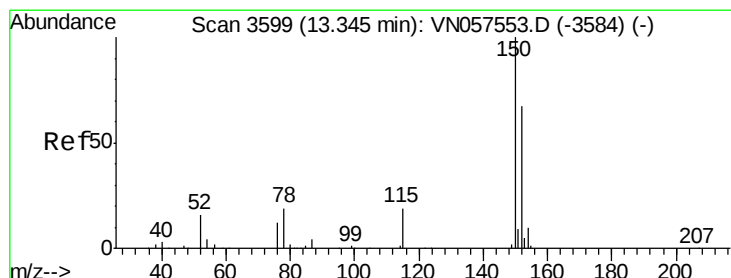
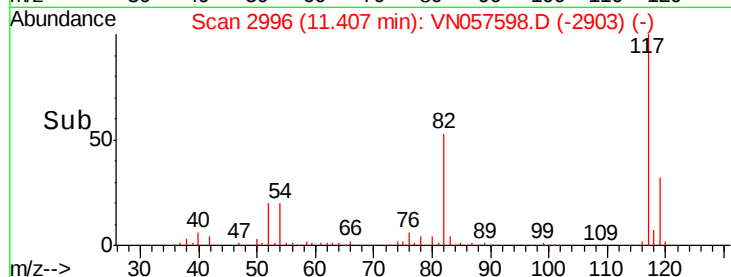
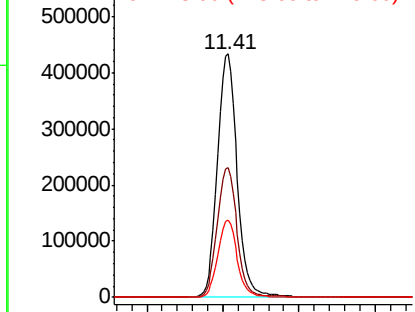
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057598.D
Acq: 30 Aug 2019 19:37

Instrument :
MSVOA_N
ClientSampled :
T2-S-A2-(0)

Tgt Ion:117 Resp: 780267
Ion Ratio Lower Upper
117 100
82 53.4 50.6 75.8
119 31.7 24.6 36.8

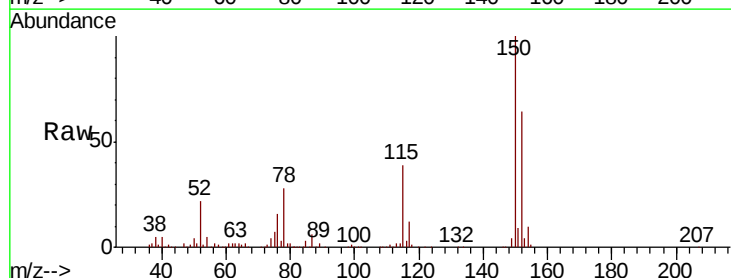


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

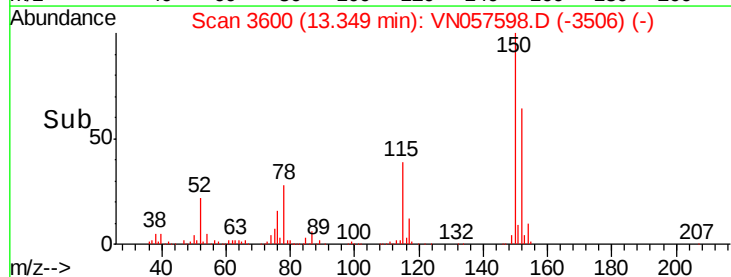
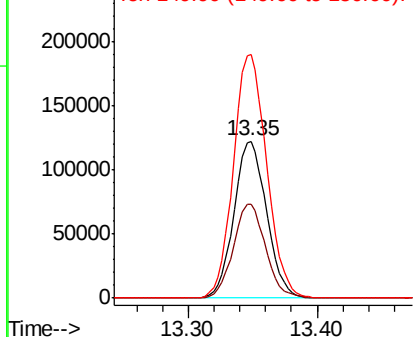


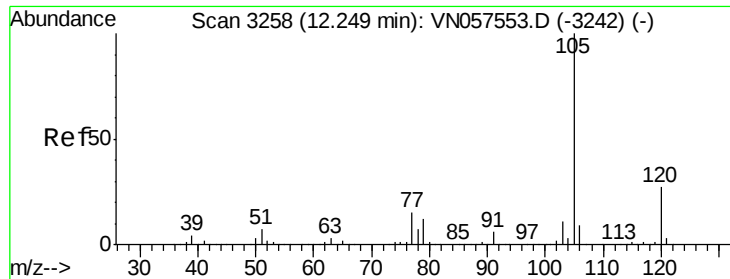
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057598.D
Acq: 30 Aug 2019 19:37

Tgt Ion:152 Resp: 215411
Ion Ratio Lower Upper
152 100
115 59.0 32.0 96.0
150 158.0 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: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

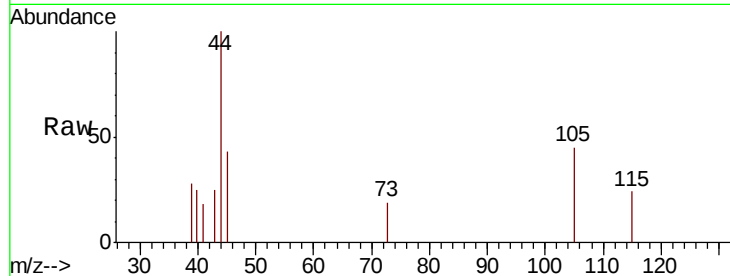
T2-S-A2-(0)

Tgt Ion: 105 Resp: 359

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400

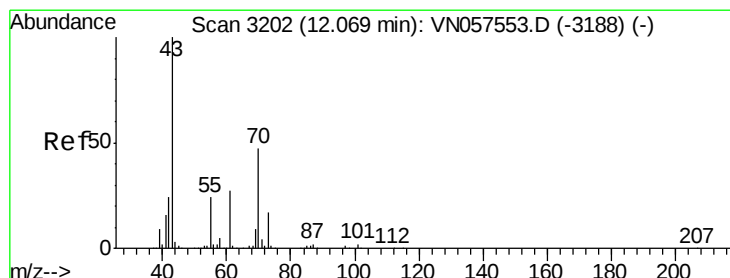
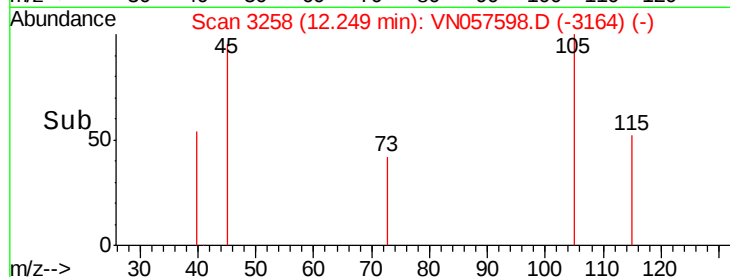
300

200

100

0

Time--> 12.22 12.24 12.26



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Tgt Ion: 43 Resp: 574

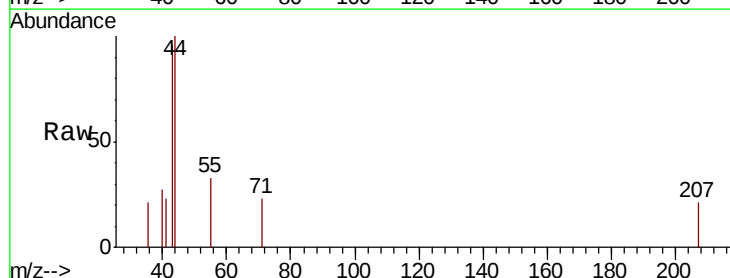
Ion Ratio Lower Upper

43 100

70 10.6 27.8 41.6#

55 30.1 17.0 25.4#

61 0.0 17.0 25.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

1200

1000

800

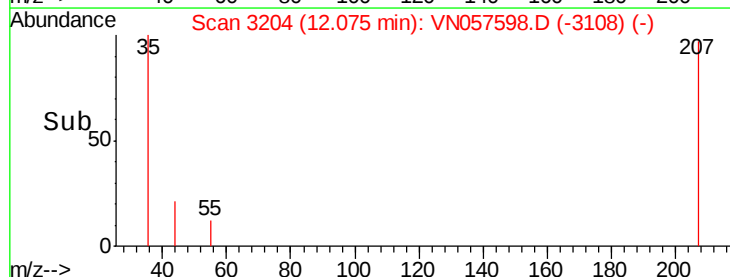
600

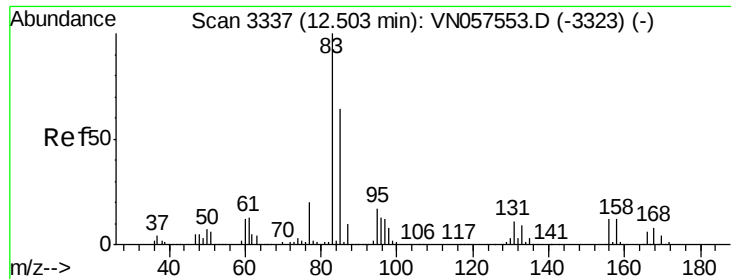
400

200

0

Time--> 12.06 12.08 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.11 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

T2-S-A2-(0)

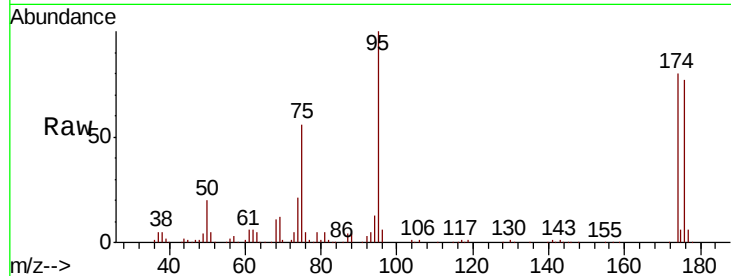
Tgt Ion: 83 Resp: 268

Ion Ratio Lower Upper

83 100

131 91.4 4.3 13.1#

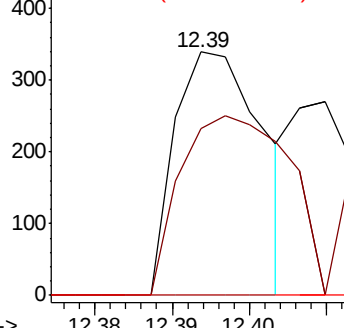
85 0.0 32.3 96.8#



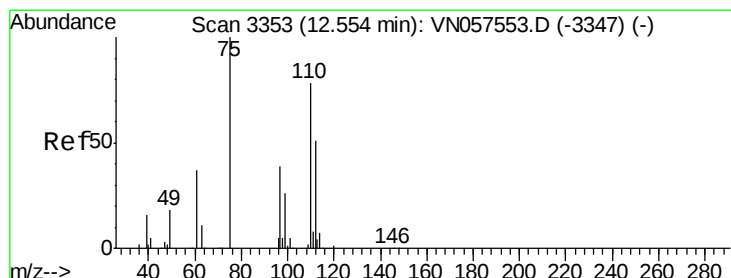
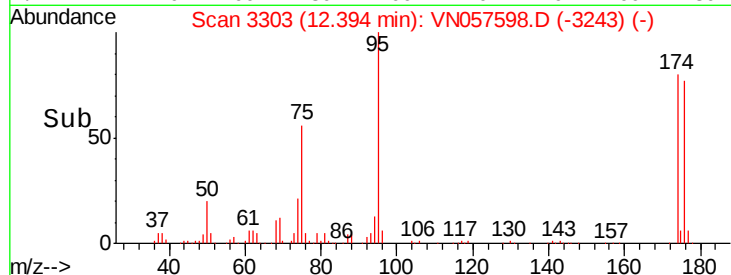
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 41.105 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057598.D

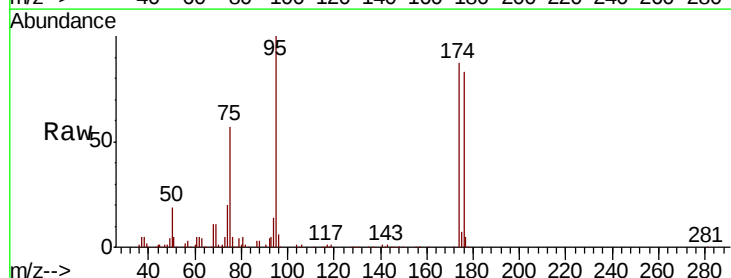
Acq: 30 Aug 2019 19:37

Tgt Ion: 75 Resp: 165192

Ion Ratio Lower Upper

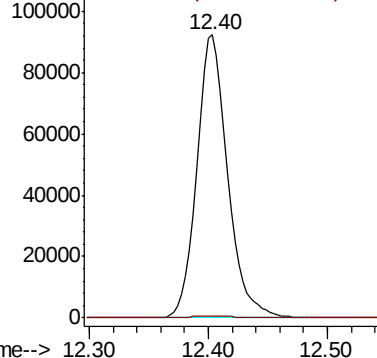
75 100

77 0.9 0.0 0.0#

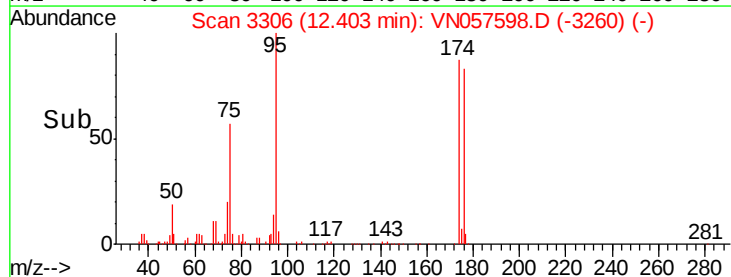


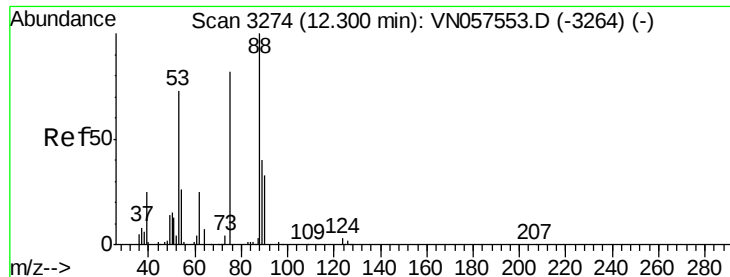
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 115.311 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

T2-S-A2-(0)

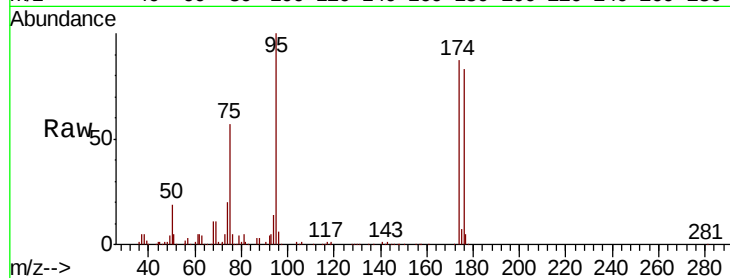
Tgt Ion: 75 Resp: 165192

Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

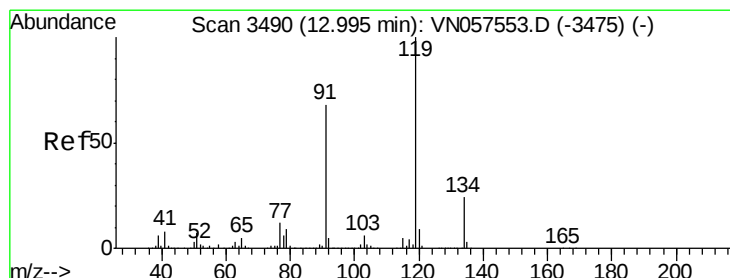
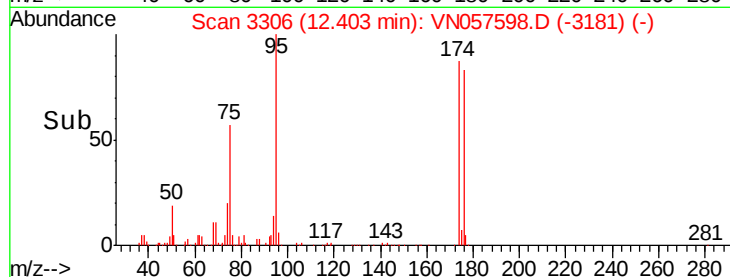
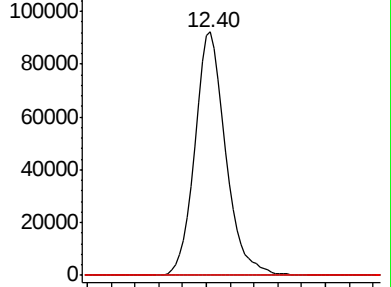
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN057553.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN057553.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN057553.D (-3264) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN057598.D

Acq: 30 Aug 2019 19:37

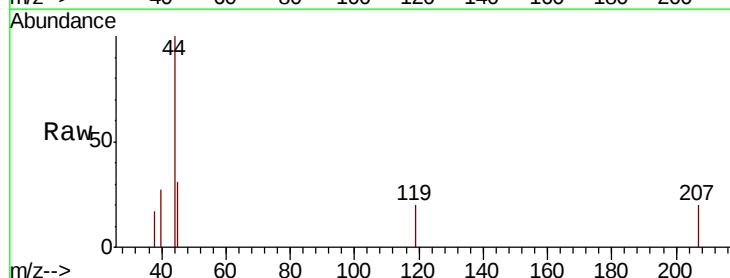
Tgt Ion: 119 Resp: 98

Ion Ratio Lower Upper

119 100

91 0.0 37.0 111.0#

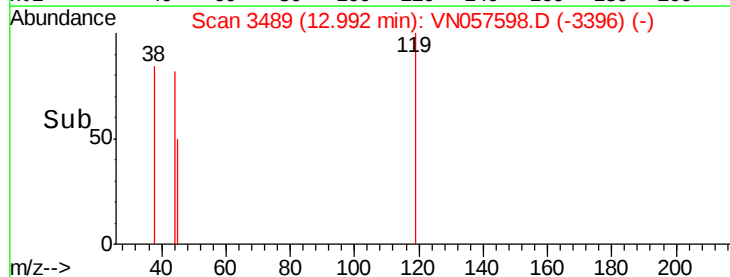
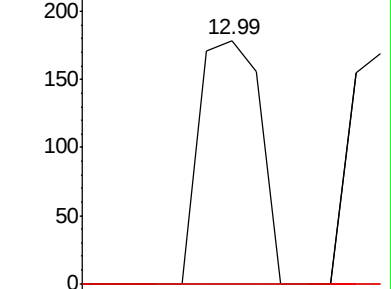
134 0.0 12.2 36.6#

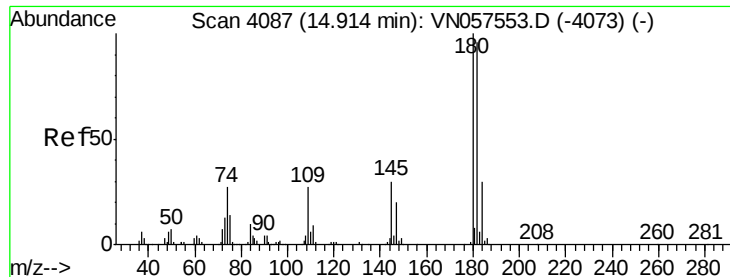


Abundance Ion 119.00 (118.70 to 119.70): VN057553.D (-3475) (-)

Ion 91.00 (90.70 to 91.70): VN057553.D (-3475) (-)

Ion 134.00 (133.70 to 134.70): VN057553.D (-3475) (-)

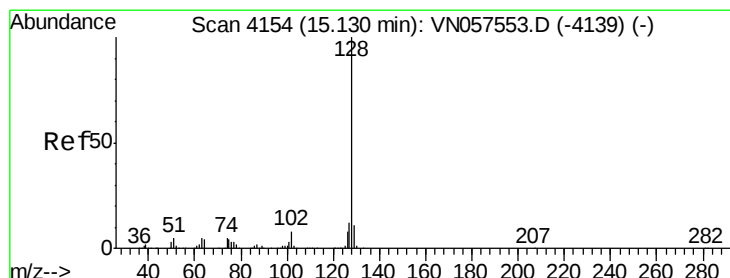
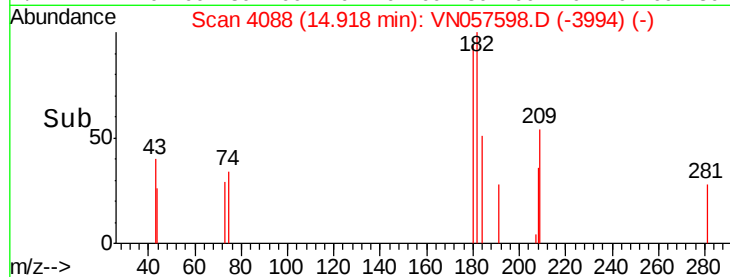
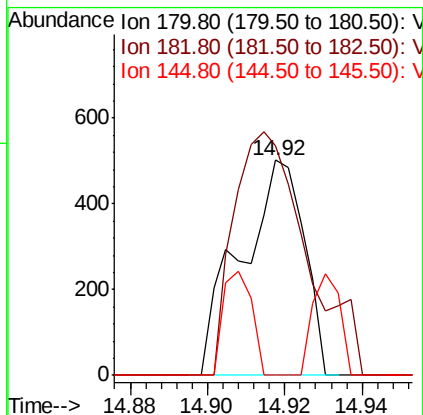
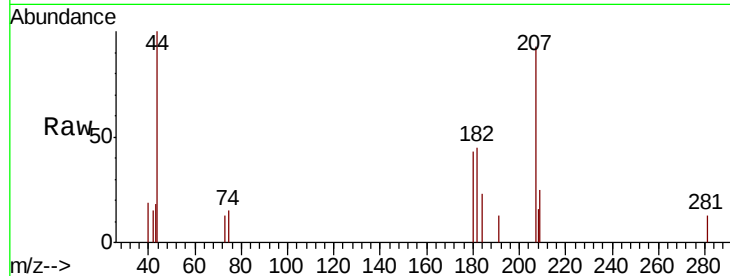




#93
 1,2,4-Trichlorobenzene
 Concen: 3.960 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN057598.D
 Acq: 30 Aug 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-S-A2-(0)

Tgt Ion:180 Resp: 573
 Ion Ratio Lower Upper
 180 100
 182 129.1 46.7 140.1
 145 21.5 15.6 46.8



#95
 Naphthalene
 Concen: 0.266 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN057598.D
 Acq: 30 Aug 2019 19:37

Tgt Ion:128 Resp: 1893
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.6 13.0#

