

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054347.D
 Acq On : 16 Mar 2019 19:57
 Operator : JC/SP
 Sample : K1960-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-2-8.0-031519

Quant Time: Mar 18 04:54:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1899920	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2684208	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2233543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	873646	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	916702	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
35) Dibromofluoromethane	7.59	113	819997	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	10.09	98	3087177	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.40	95	935793	41.83	ug/l	0.00
Spiked Amount			Recovery	=	83.66%	

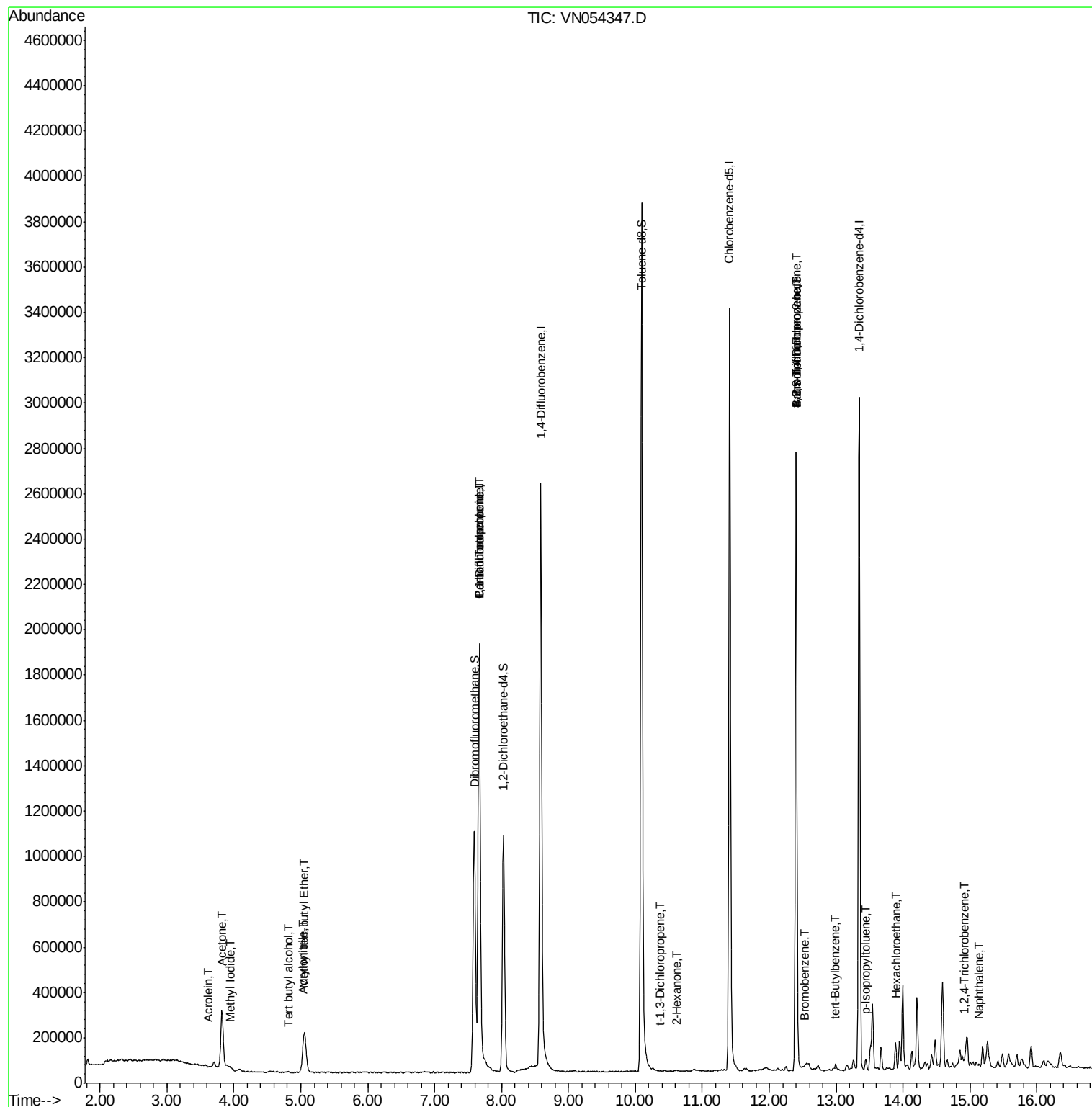
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.95	142	219	1.504	ug/l #	45
11) Tert butyl alcohol	4.81	59	1561	1.129	ug/l #	70
13) Acrolein	3.61	56	324	0.247	ug/l #	63
15) Acrylonitrile	5.03	53	1237	0.218	ug/l #	39
16) Acetone	3.82	43	395095	68.389	ug/l	97
19) Methyl tert-butyl Ether	5.06	73	316956	6.478	ug/l	99
31) Cyclohexane	7.66	56	29751	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	110147	4.456	ug/l #	48
38) Carbon Tetrachloride	7.67	117	152274	5.874	ug/l #	16
53) t-1,3-Dichloropropene	10.37	75	128	1.990	ug/l #	1
59) 2-Hexanone	10.61	43	4354	0.496	ug/l	66
71) Bromoform	12.40	173	5872	2.763	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	445276	34.659	ug/l #	100
77) Bromobenzene	12.53	156	12467	0.674	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	445276	118.480	ug/l #	11
83) tert-Butylbenzene	12.99	119	12416	0.232	ug/l	96
86) p-Isopropyltoluene	13.44	119	26801	0.440	ug/l	96
90) Hexachloroethane	13.89	117	6151	0.610	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	251	2.530	ug/l #	1
95) Naphthalene	15.13	128	14693	3.827	ug/l #	92

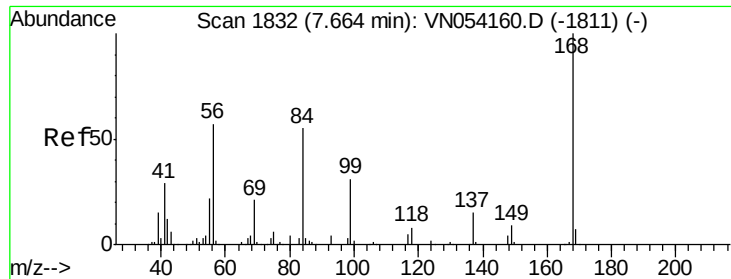
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

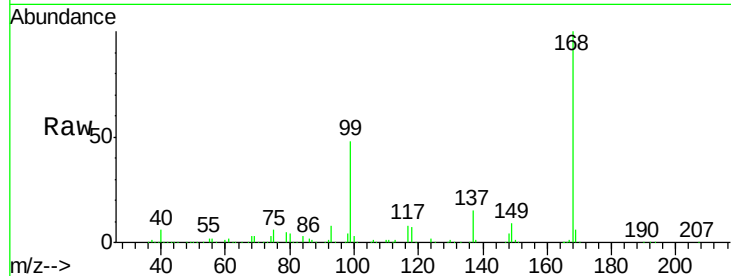
T11-MW-2-8.0-031519

Tot Ion:168 Resp: 1899920

Ion Ratio Lower Upper

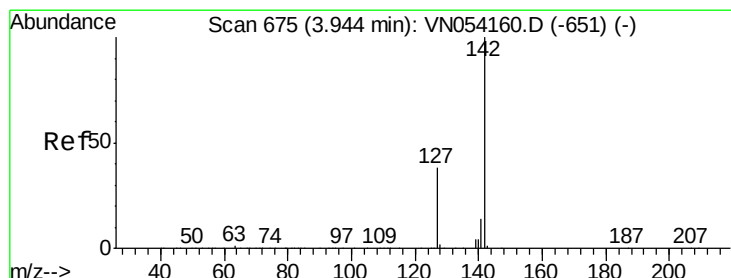
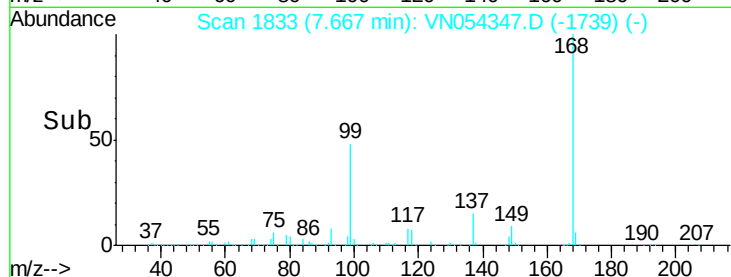
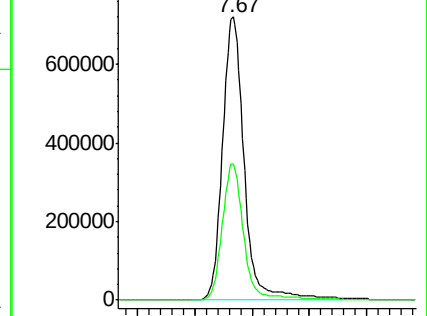
168 100

99 48.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#10

Methyl Iodide

Concen: 1.504 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

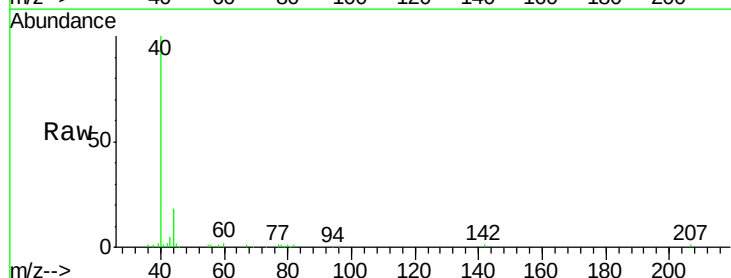
Tgt Ion:142 Resp: 219

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

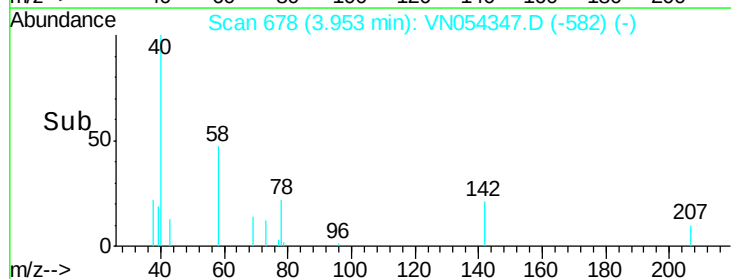
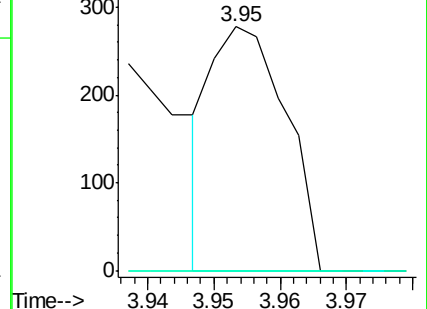
141 0.0 11.2 16.8#

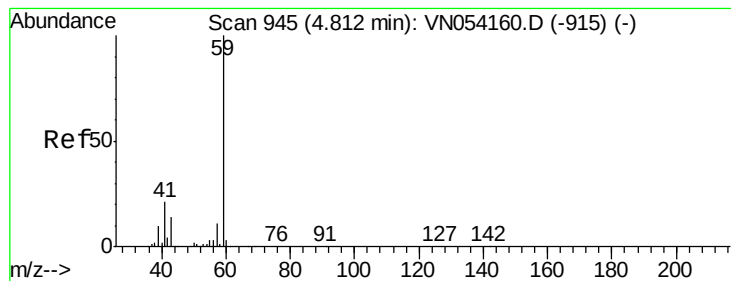


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 1.129 ug/l

RT: 4.81 min Scan# 943

Delta R.T. -0.01 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

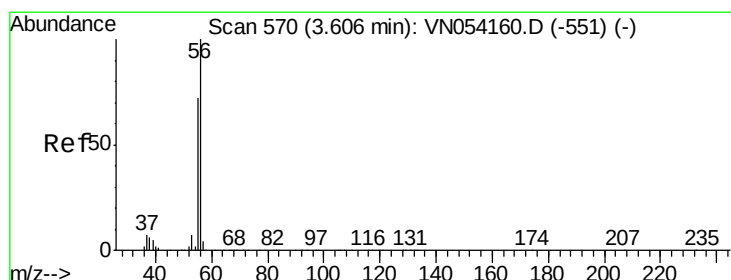
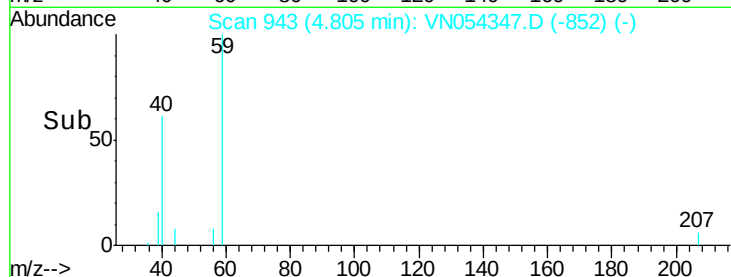
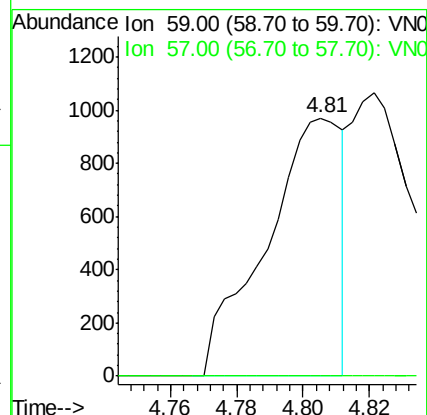
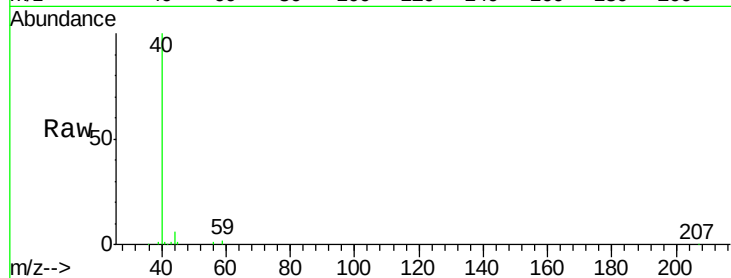
T11-MW-2-8.0-031519

Tot Ion: 59 Resp: 1561

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



#13

Acrolein

Concen: 0.247 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054347.D

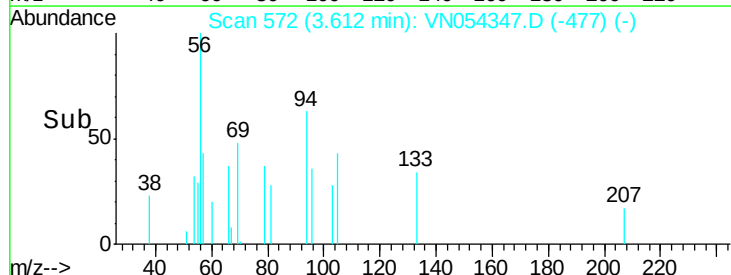
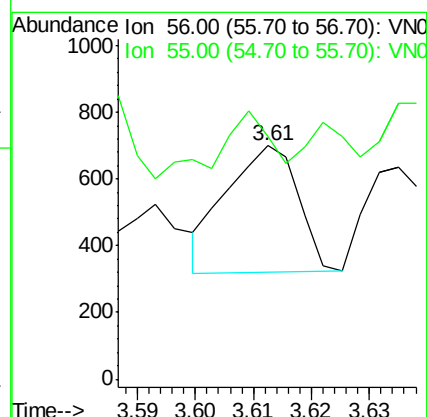
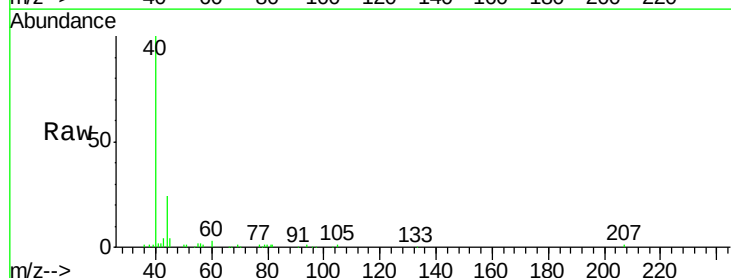
Acq: 16 Mar 2019 19:57

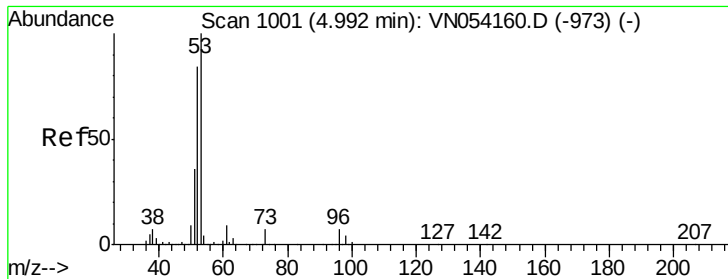
Tgt Ion: 56 Resp: 324

Ion Ratio Lower Upper

56 100

55 40.1 56.7 85.1#





#15

Acrylonitrile

Concen: 0.218 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. 0.04 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-2-8.0-031519

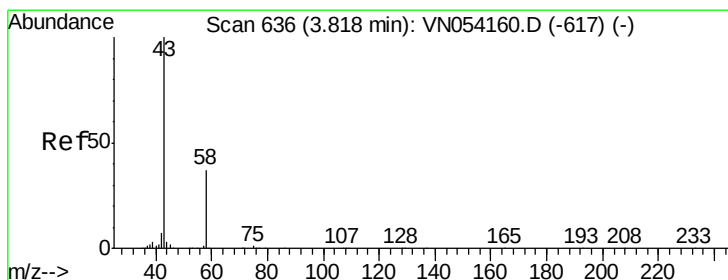
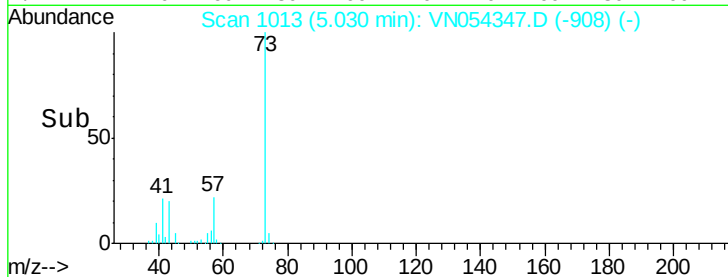
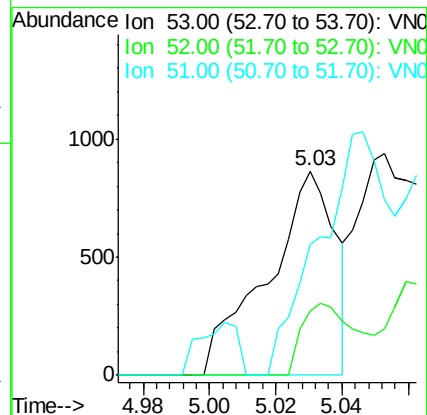
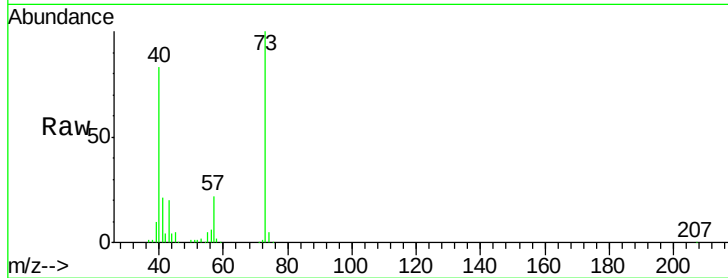
Tot Ion: 53 Resp: 1237

Ion Ratio Lower Upper

53 100

52 28.5 66.4 99.6#

51 0.0 29.6 44.4#



#16

Acetone

Concen: 68.389 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054347.D

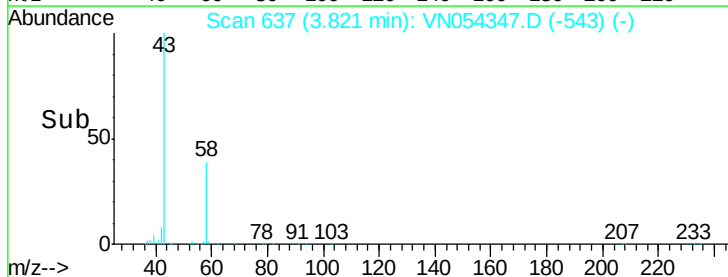
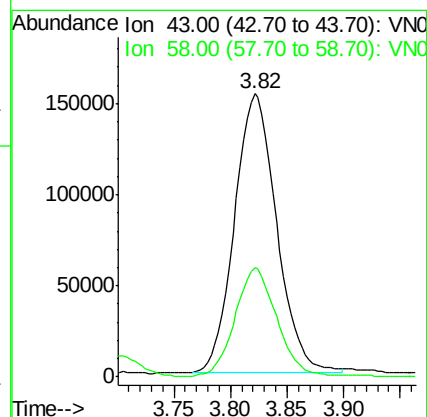
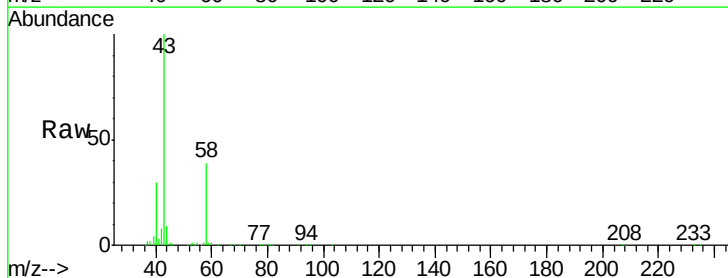
Acq: 16 Mar 2019 19:57

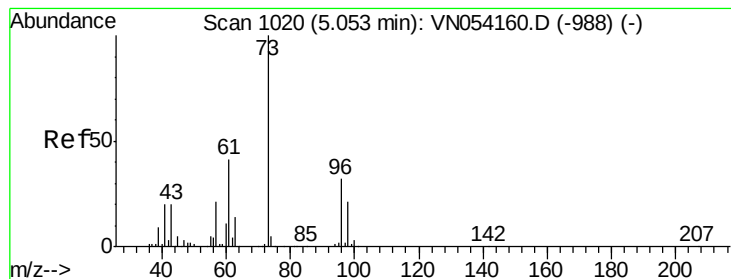
Tgt Ion: 43 Resp: 395095

Ion Ratio Lower Upper

43 100

58 39.0 29.9 44.9





#19

Methvl tert-butyl Ether

Concen: 6.478 ug/l

RT: 5.06 min Scan# 1021

Delta R.T. 0.00 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

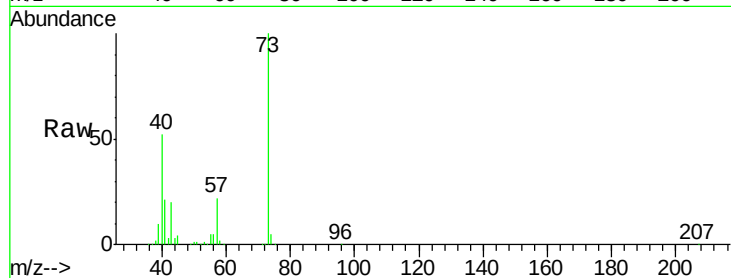
T11-MW-2-8.0-031519

Tot Ion: 73 Resp: 316956

Ion Ratio Lower Upper

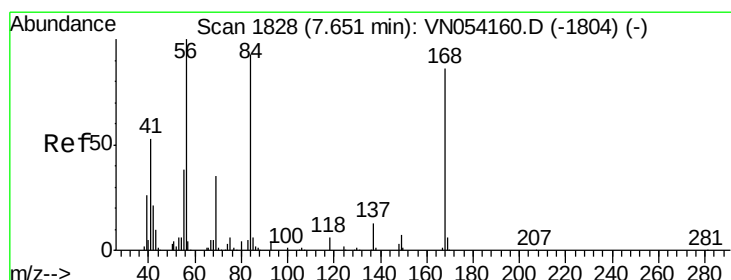
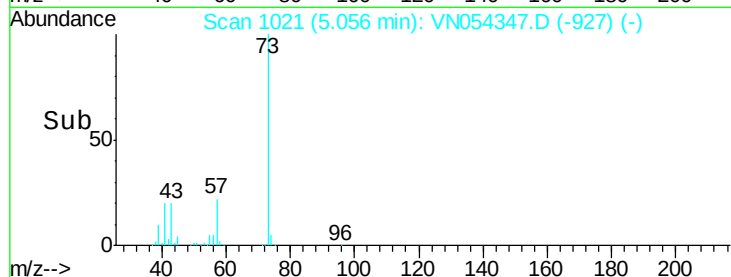
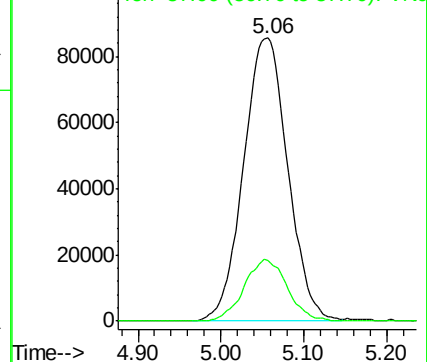
73 100

57 21.4 16.8 25.2



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

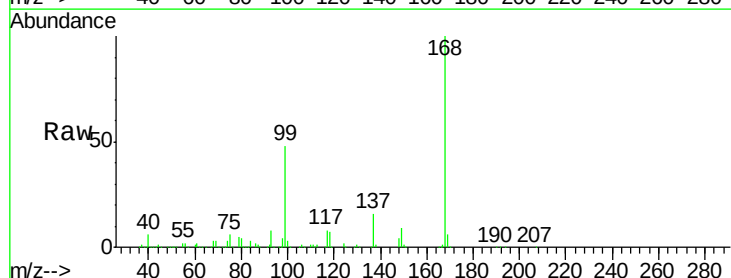
Tgt Ion: 56 Resp: 29751

Ion Ratio Lower Upper

56 100

69 181.3 27.8 41.6#

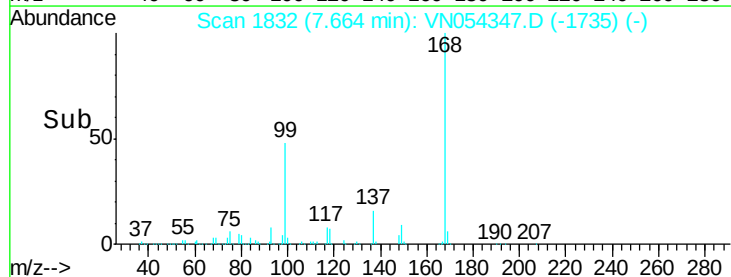
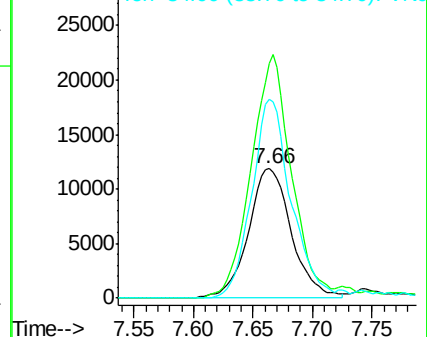
84 153.9 74.6 111.8#

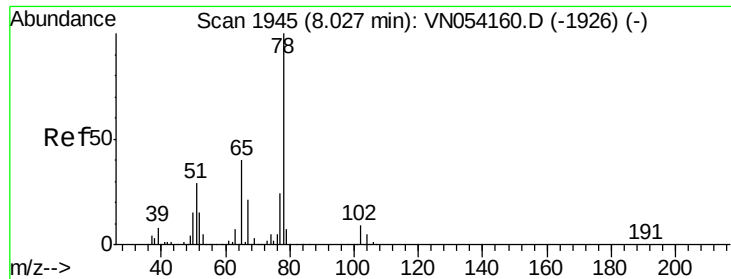


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

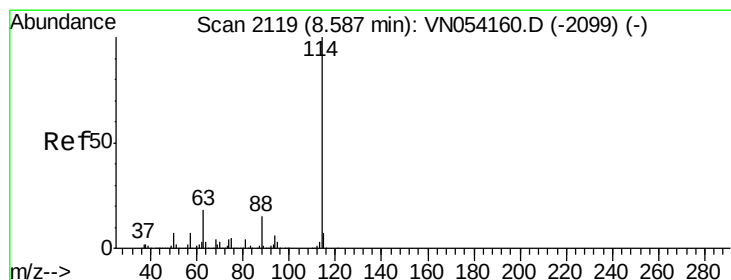
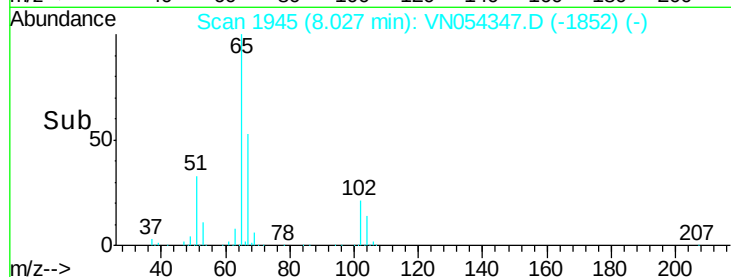
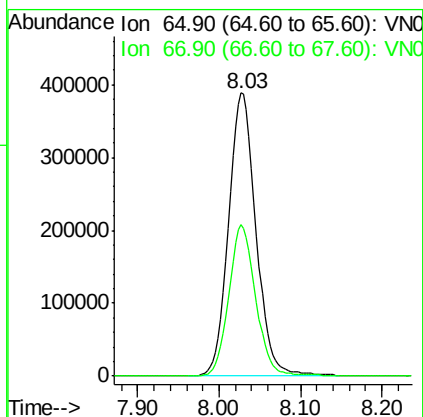
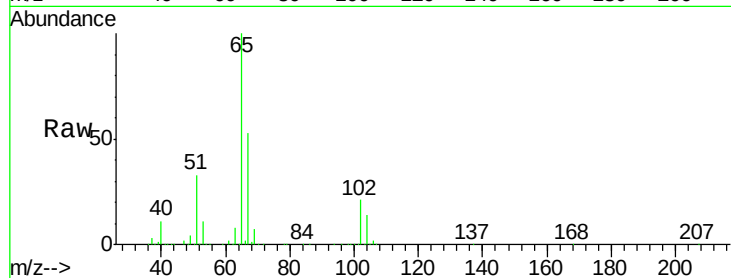




#33
 1,2-Dichloroethane-d4
 Concen: 45.433 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

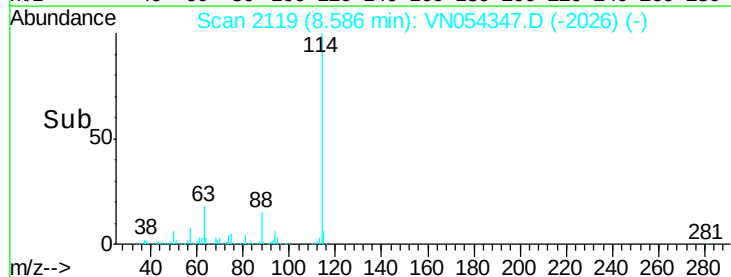
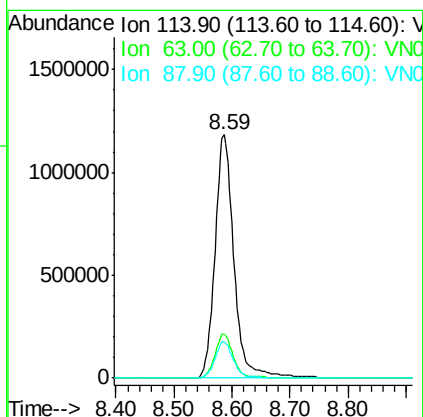
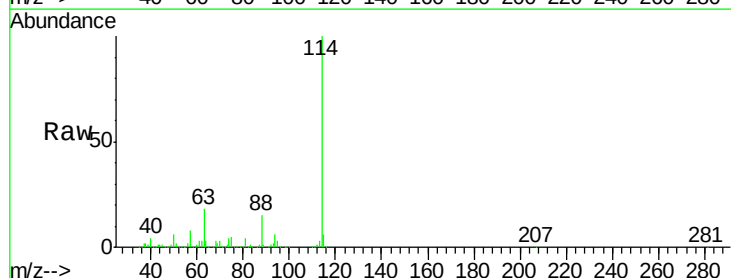
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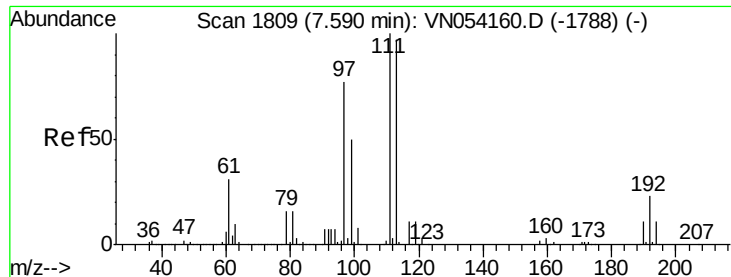
Tot Ion: 65 Resp: 916702
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

Tgt Ion: 114 Resp: 2684208
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 35.2
 88 15.1 0.0 30.2

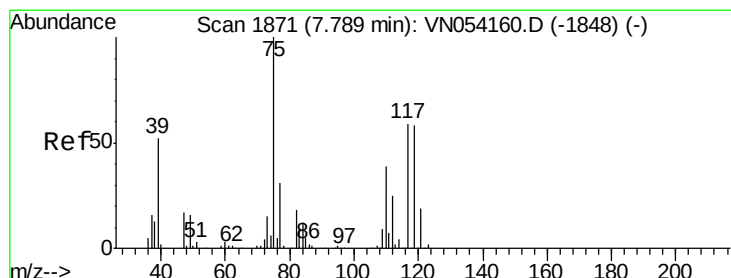
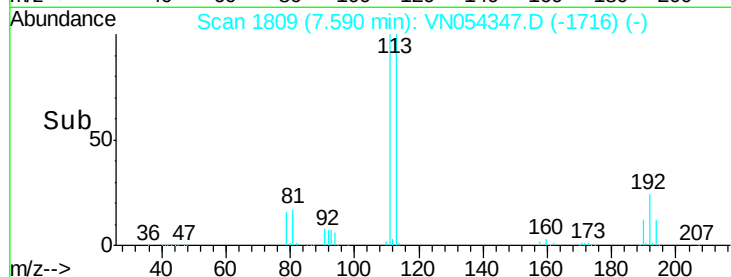
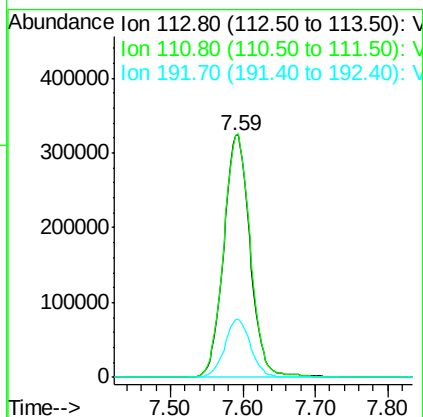
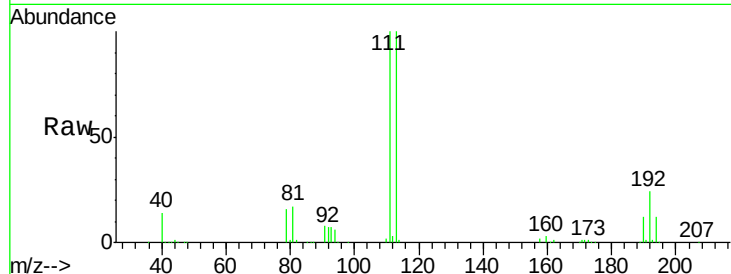




#35
 Dibromofluoromethane
 Concen: 47.366 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

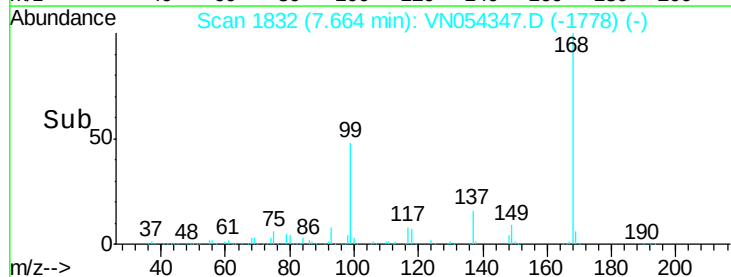
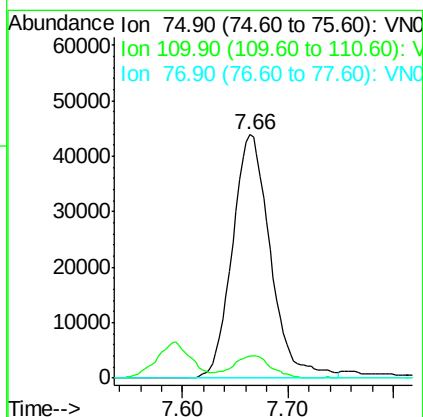
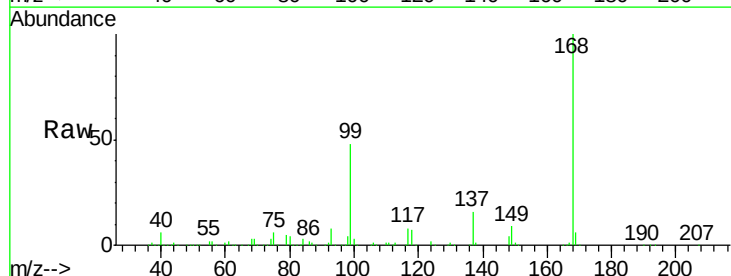
Instrument :
 MSVOA_N
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 T11-MW-2-8.0-031519

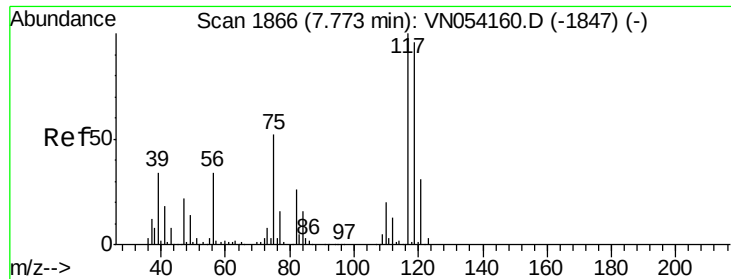
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.2	123.4
192	23.7	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.456 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.874 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-2-8.0-031519

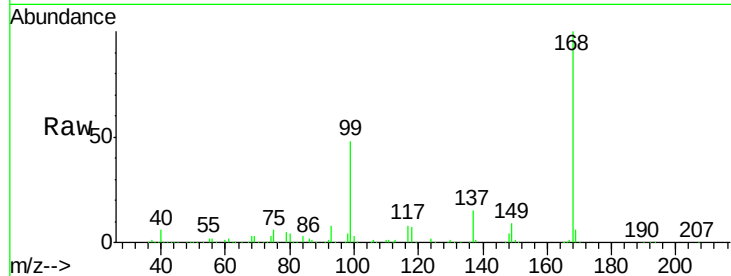
Tot Ion:117 Resp: 152274

Ion Ratio Lower Upper

117 100

119 4.6 76.3 114.5#

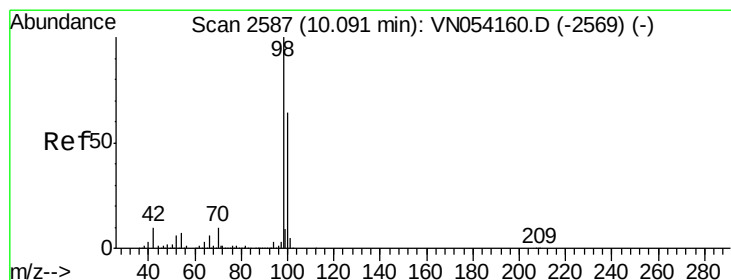
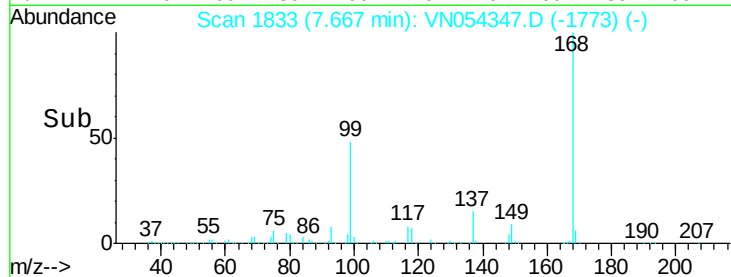
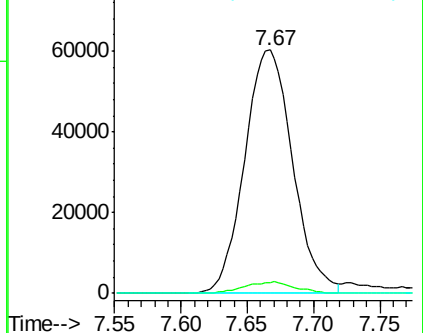
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.286 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054347.D

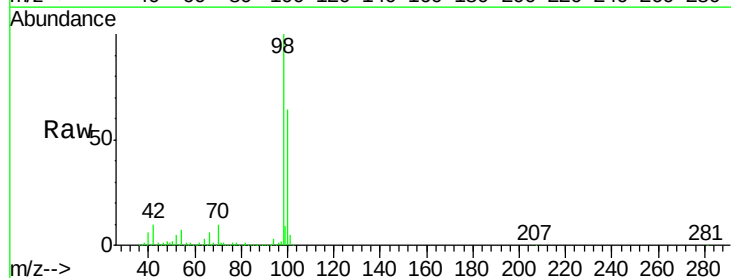
Acq: 16 Mar 2019 19:57

Tgt Ion: 98 Resp: 3087177

Ion Ratio Lower Upper

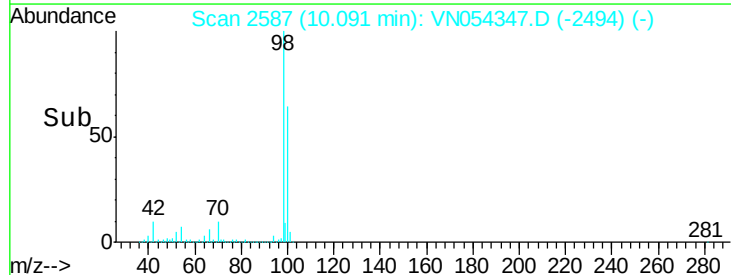
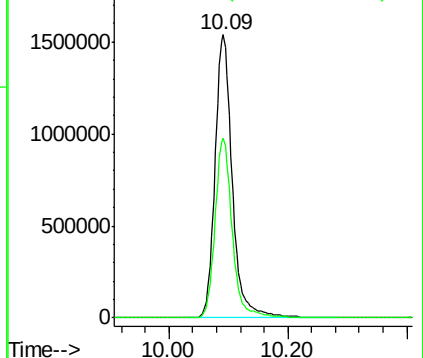
98 100

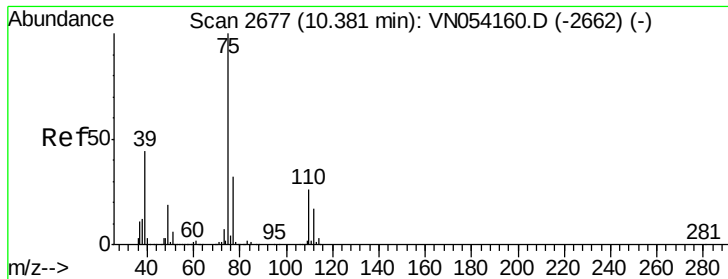
100 63.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 1.990 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.01 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

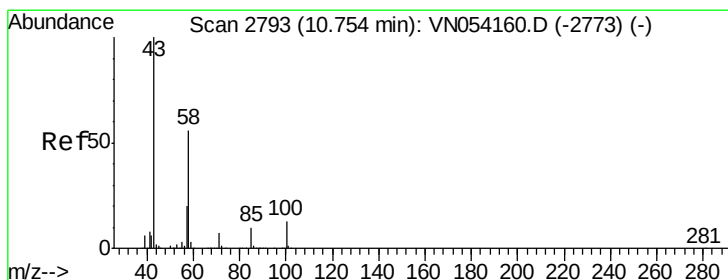
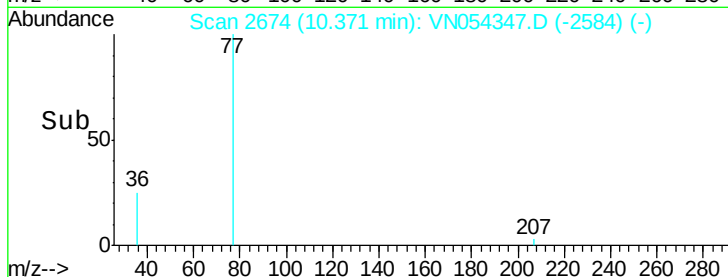
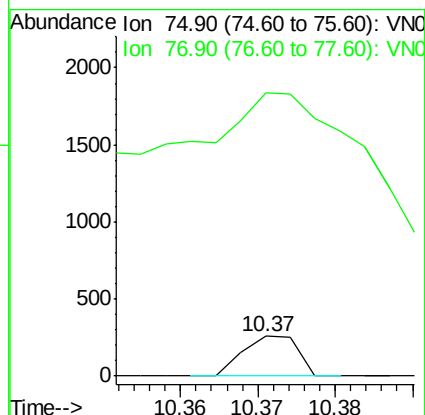
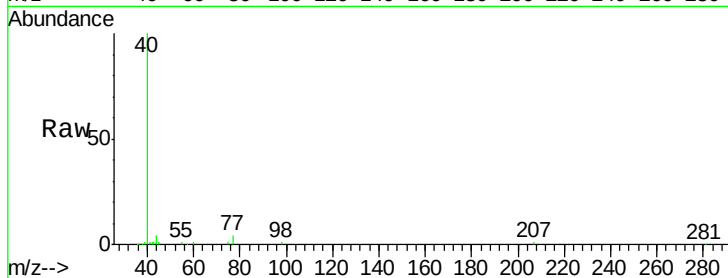
T11-MW-2-8.0-031519

Tot Ion: 75 Resp: 128

Ion Ratio Lower Upper

75 100

77 119.6 25.8 38.8#



#59

2-Hexanone

Concen: 0.496 ug/l

RT: 10.61 min Scan# 2749

Delta R.T. -0.14 min

Lab File: VN054347.D

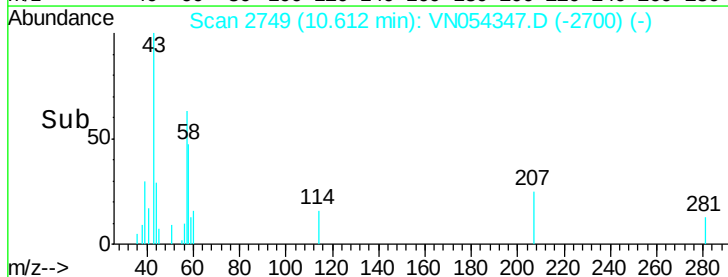
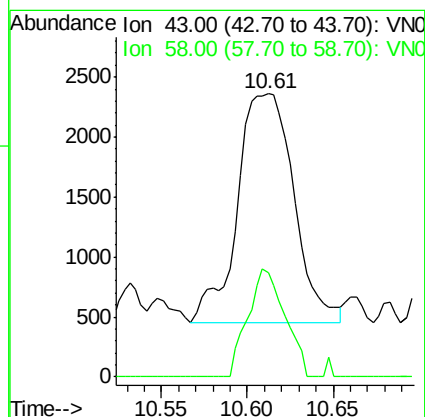
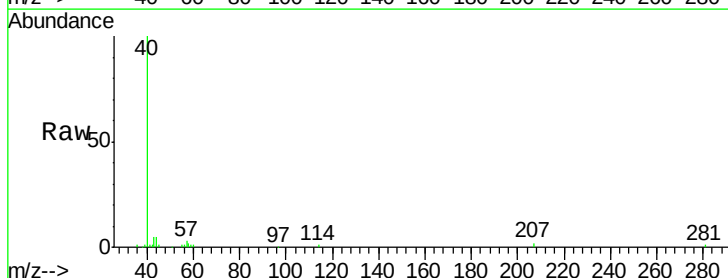
Acq: 16 Mar 2019 19:57

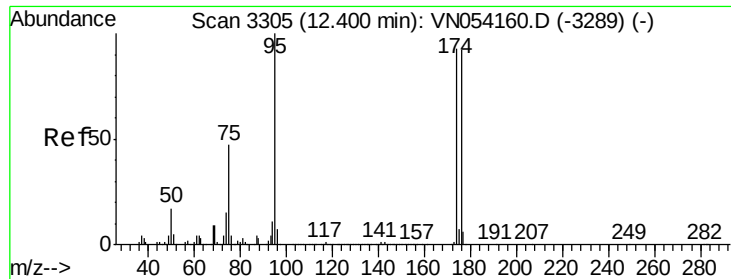
Tgt Ion: 43 Resp: 4354

Ion Ratio Lower Upper

43 100

58 31.0 28.0 83.9





#62

4-Bromofluorobenzene

Concen: 41.830 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-2-8.0-031519

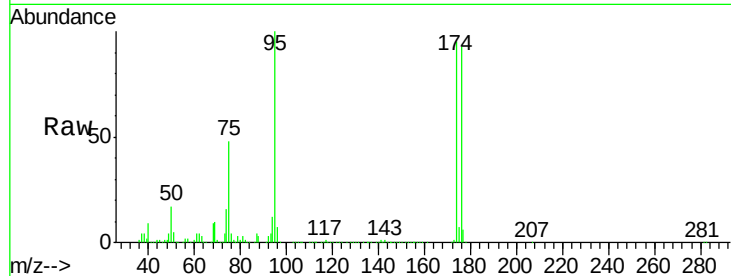
Tot Ion: 95 Resp: 935793

Ion Ratio Lower Upper

95 100

174 96.7 0.0 191.0

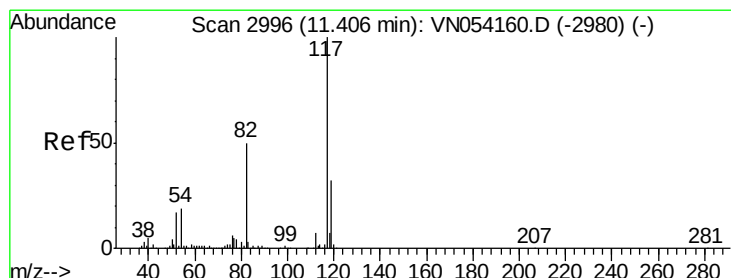
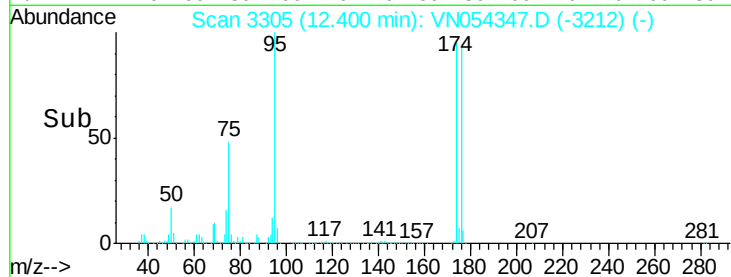
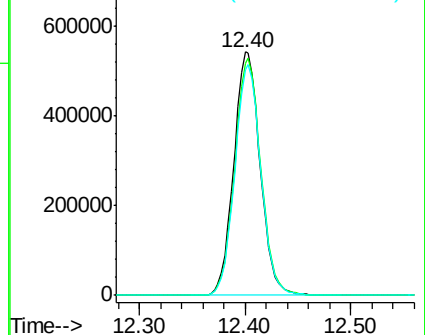
176 93.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054347.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054347.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054347.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

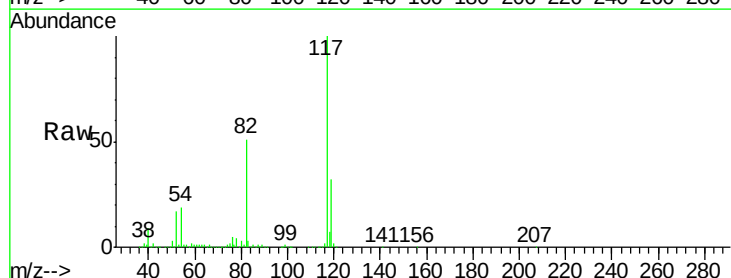
Tgt Ion: 117 Resp: 2233543

Ion Ratio Lower Upper

117 100

82 50.7 40.0 60.0

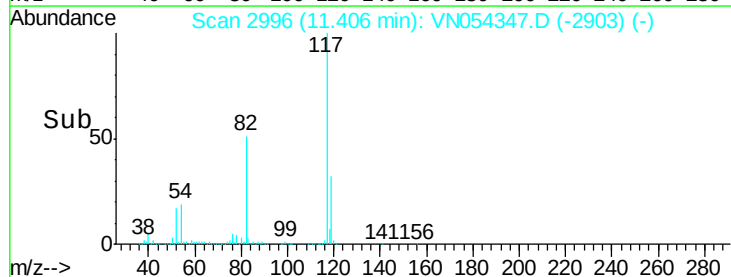
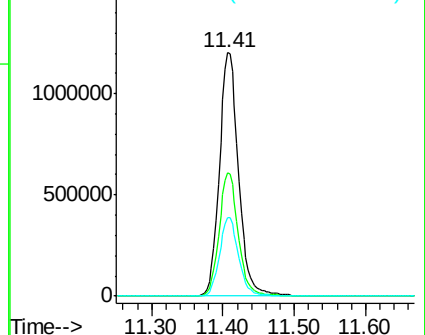
119 32.1 25.8 38.6

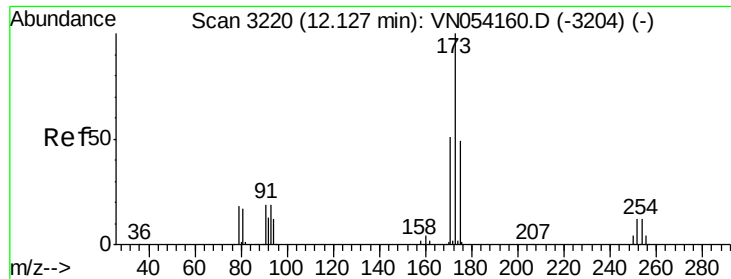


Abundance Ion 116.90 (116.60 to 117.60): VN054347.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054347.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054347.D (-2903) (-)

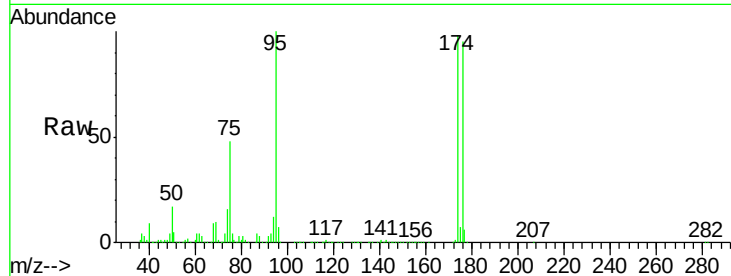




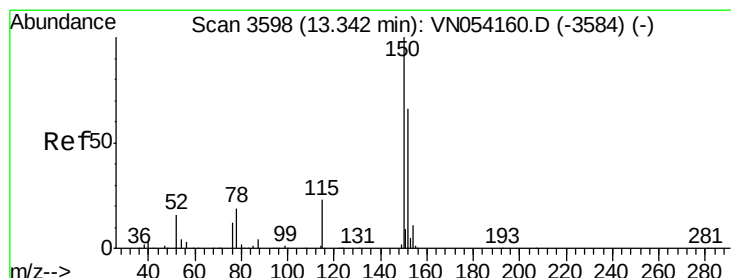
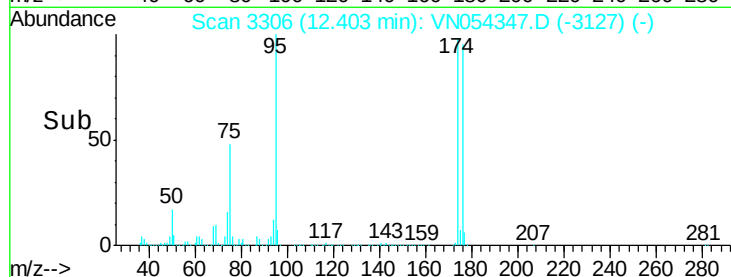
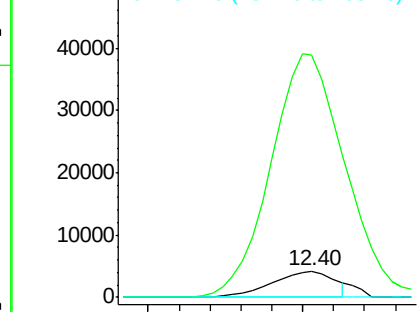
#71
Bromoform
Concen: 2.763 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054347.D
Acq: 16 Mar 2019 19:57

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-2-8.0-031519

Tot Ion:173 Resp: 5872
Ion Ratio Lower Upper
173 100
175 949.3 24.4 73.2#
254 0.0 0.1 0.1#

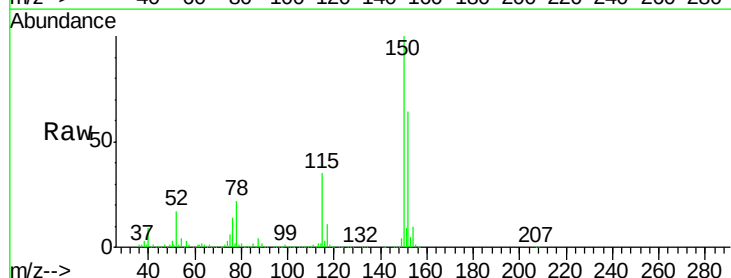


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

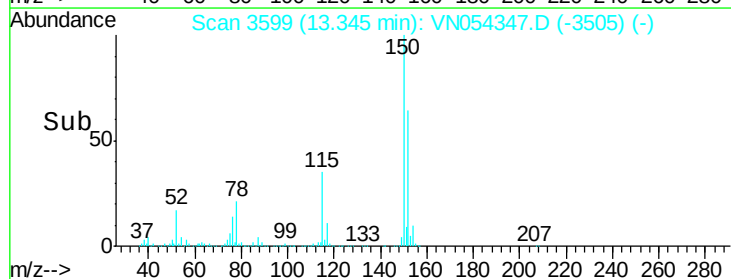
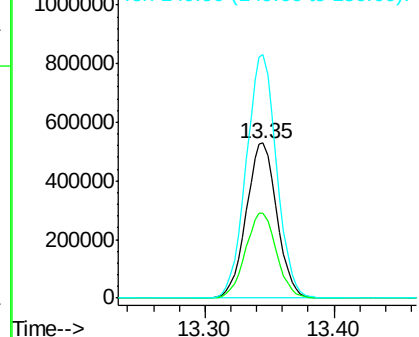


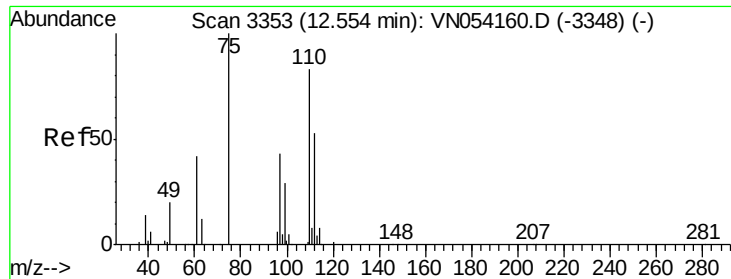
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054347.D
Acq: 16 Mar 2019 19:57

Tgt Ion:152 Resp: 873646
Ion Ratio Lower Upper
152 100
115 55.2 27.2 81.6
150 156.2 0.0 349.2



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

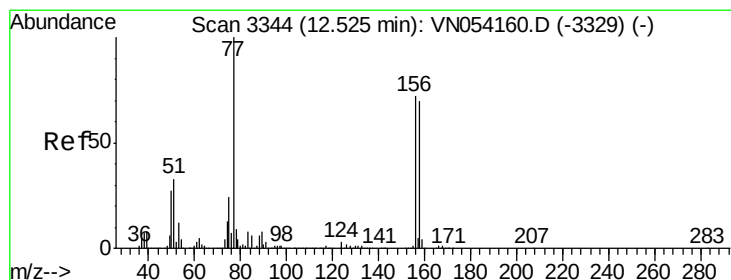
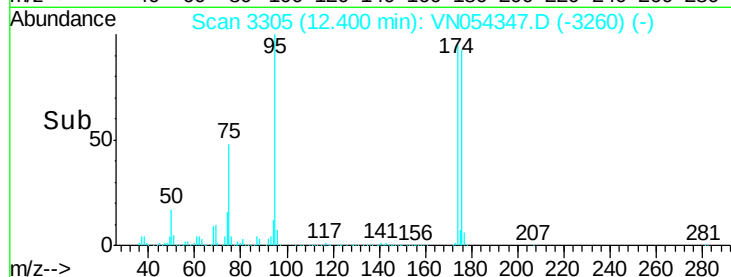
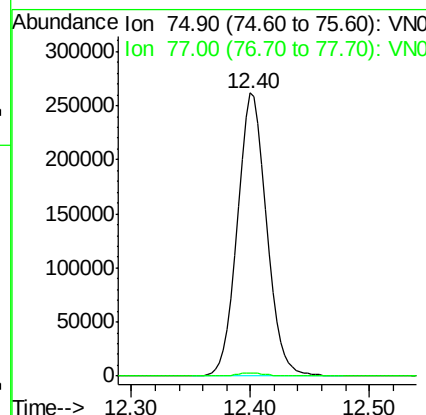
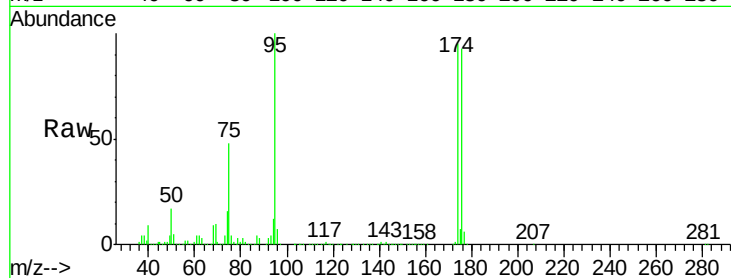




#76
 1,2,3-Trichloropropane
 Concen: 34.659 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

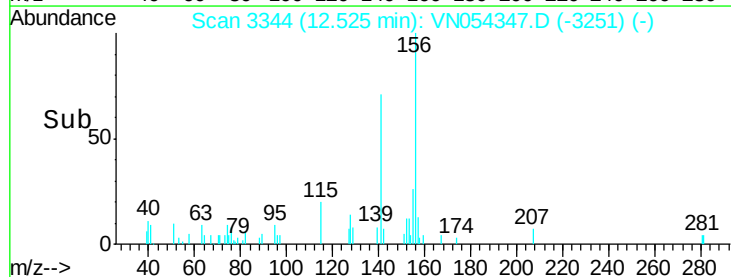
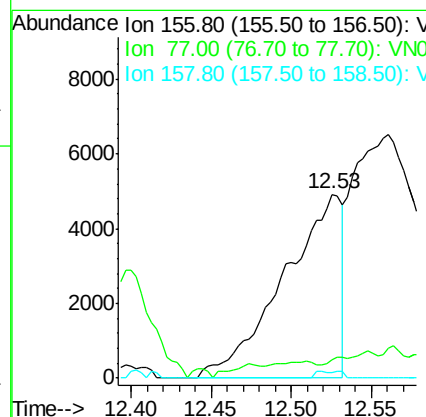
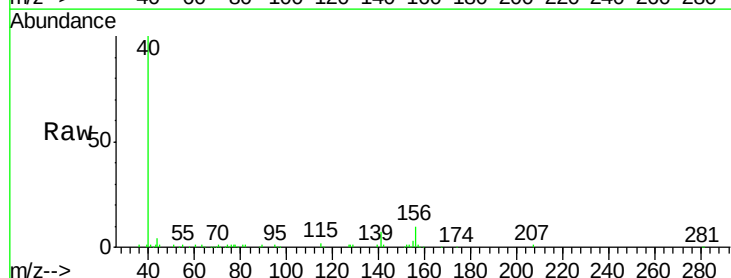
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-2-8.0-031519

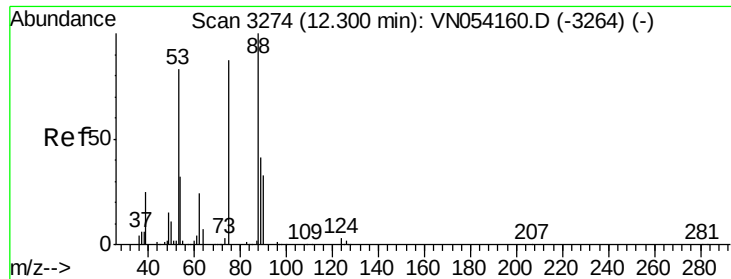
Tot Ion: 75 Resp: 445276
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#77
 Bromobenzene
 Concen: 0.674 ug/l
 RT: 12.53 min Scan# 3344
 Delta R.T. -0.00 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

Tgt Ion: 156 Resp: 12467
 Ion Ratio Lower Upper
 156 100
 77 1.3 81.5 244.4#
 158 0.8 49.0 147.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 118.480 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-2-8.0-031519

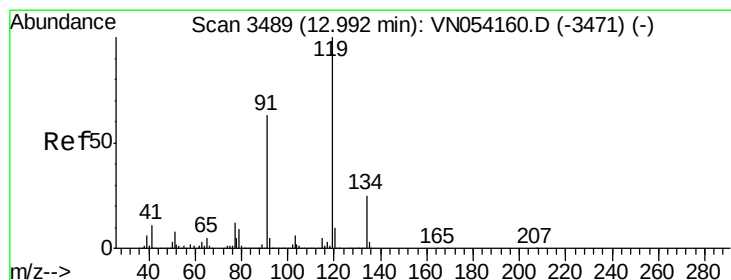
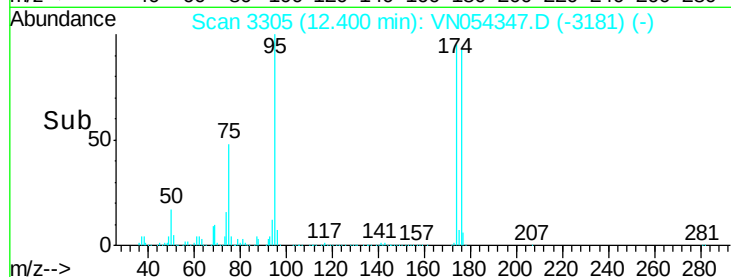
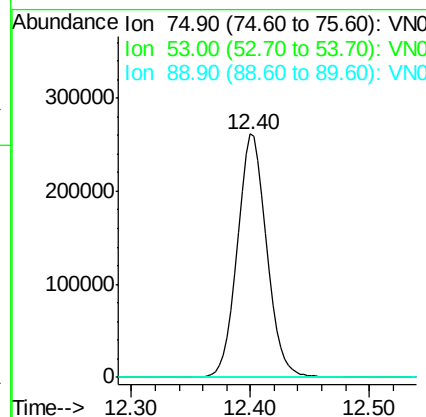
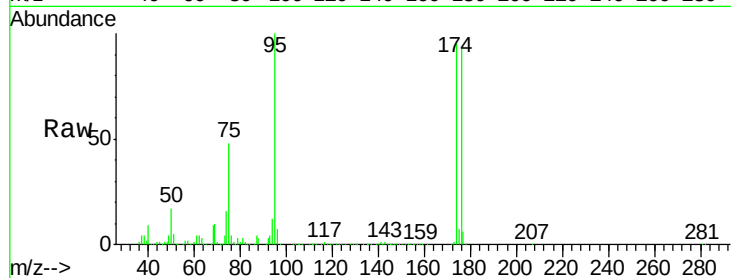
Tot Ion: 75 Resp: 445276

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 39.2 58.8#



#83

tert-Butylbenzene

Concen: 0.232 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

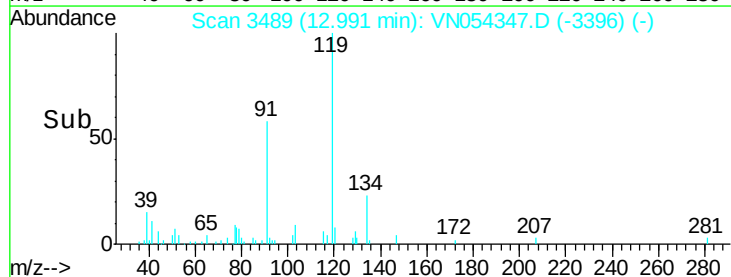
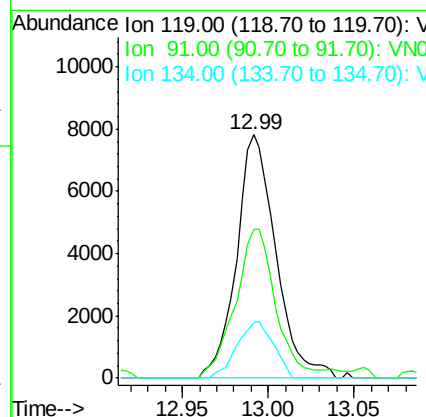
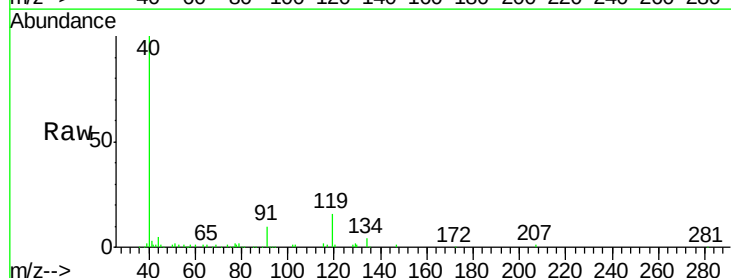
Tgt Ion: 119 Resp: 12416

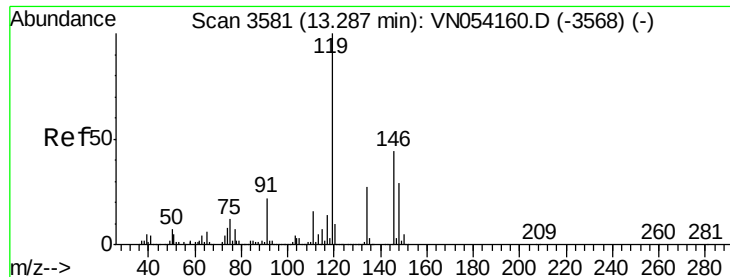
Ion Ratio Lower Upper

119 100

91 62.8 30.9 92.8

134 21.3 13.2 39.6





#86

p-Isopropyltoluene

Concen: 0.440 ug/l

RT: 13.44 min Scan# 3629

Delta R.T. 0.15 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

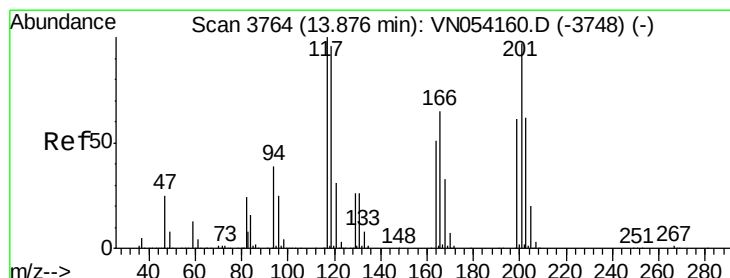
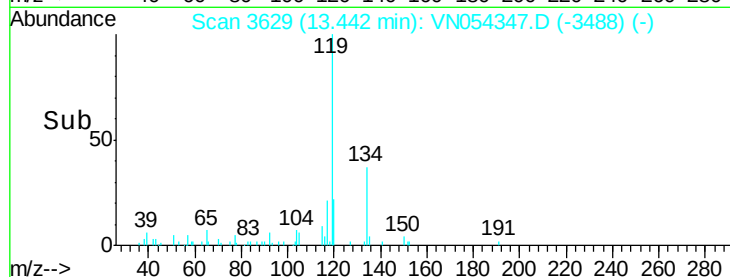
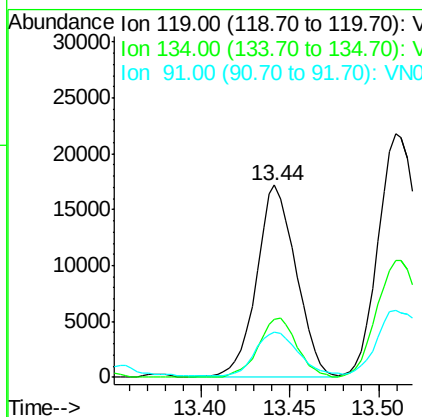
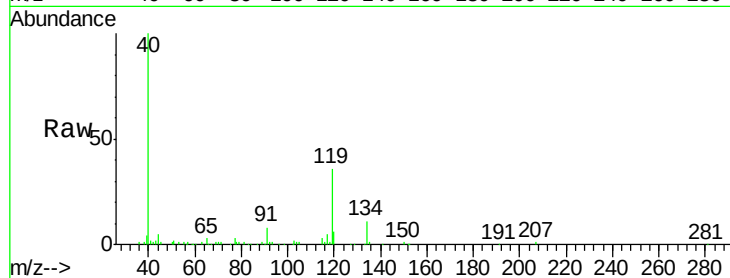
Instrument :

MSVOA_N

ClientSampleId :

T11-MW-2-8.0-031519

Tot Ion:119	Resp:	26801
Ion Ratio	Lower	Upper
119	100	
134	29.8	13.6 40.8
91	23.9	11.1 33.3



#90

Hexachloroethane

Concen: 0.610 ug/l

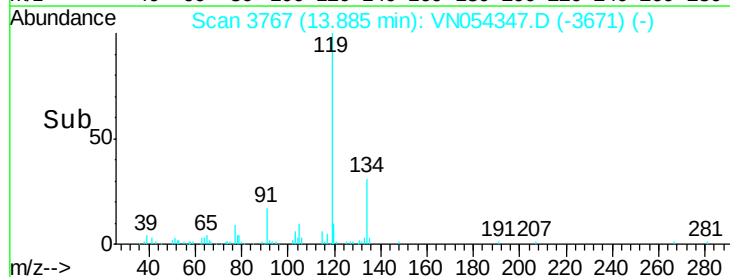
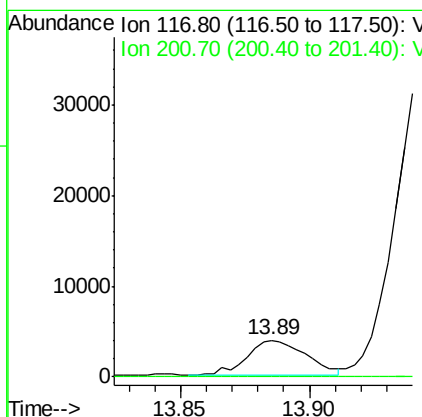
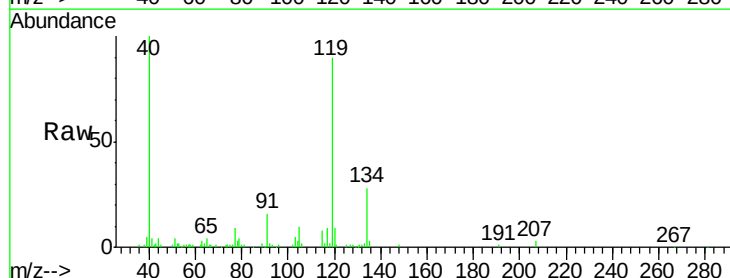
RT: 13.89 min Scan# 3767

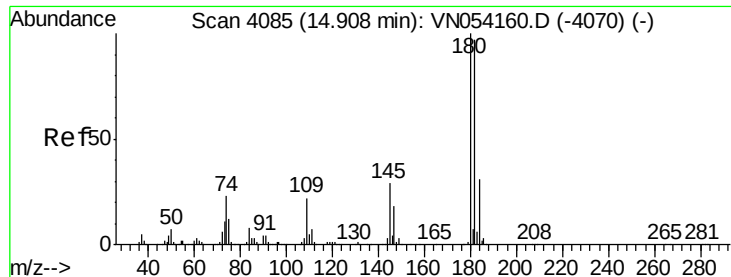
Delta R.T. 0.01 min

Lab File: VN054347.D

Acq: 16 Mar 2019 19:57

Tgt Ion:117	Resp:	6151
Ion Ratio	Lower	Upper
117	100	
201	0.0	48.1 144.4#

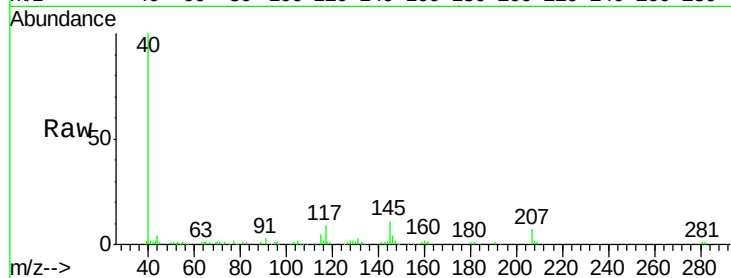




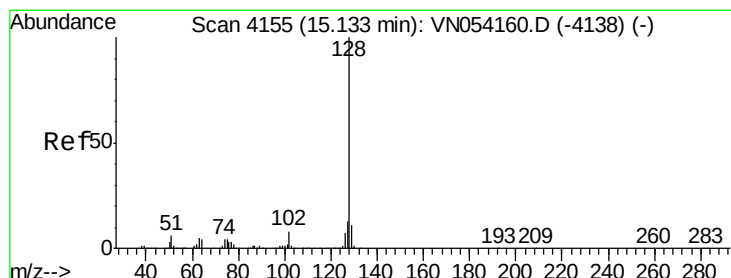
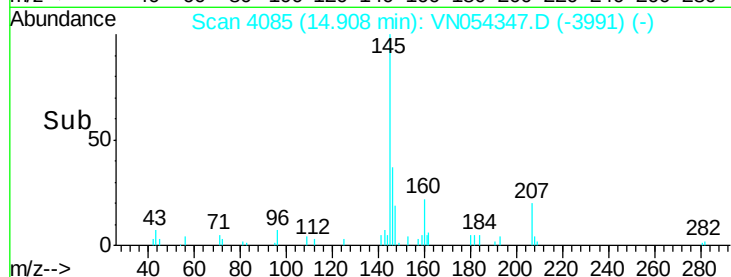
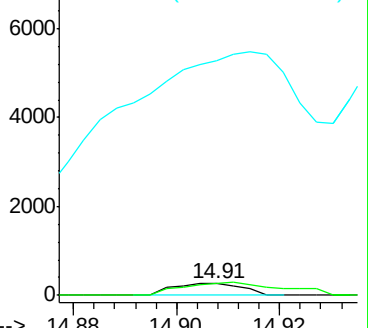
#93
 1,2,4-Trichlorobenzene
 Concen: 2.530 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-2-8.0-031519

Tot Ion:180 Resp: 251
 Ion Ratio Lower Upper
 180 100
 182 157.8 48.0 144.2#
 145 6468.5 14.2 42.8#

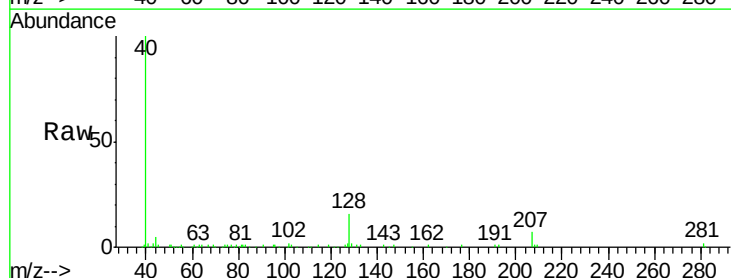


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.827 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN054347.D
 Acq: 16 Mar 2019 19:57

Tgt Ion:128 Resp: 14693
 Ion Ratio Lower Upper
 128 100
 127 10.7 10.1 15.1
 129 6.8 8.7 13.1#



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

