

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011239.D
 Acq On : 31 Jul 2019 09:15
 Operator : JC/SP
 Sample : K4044-18
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Quant Time: Aug 08 05:28:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

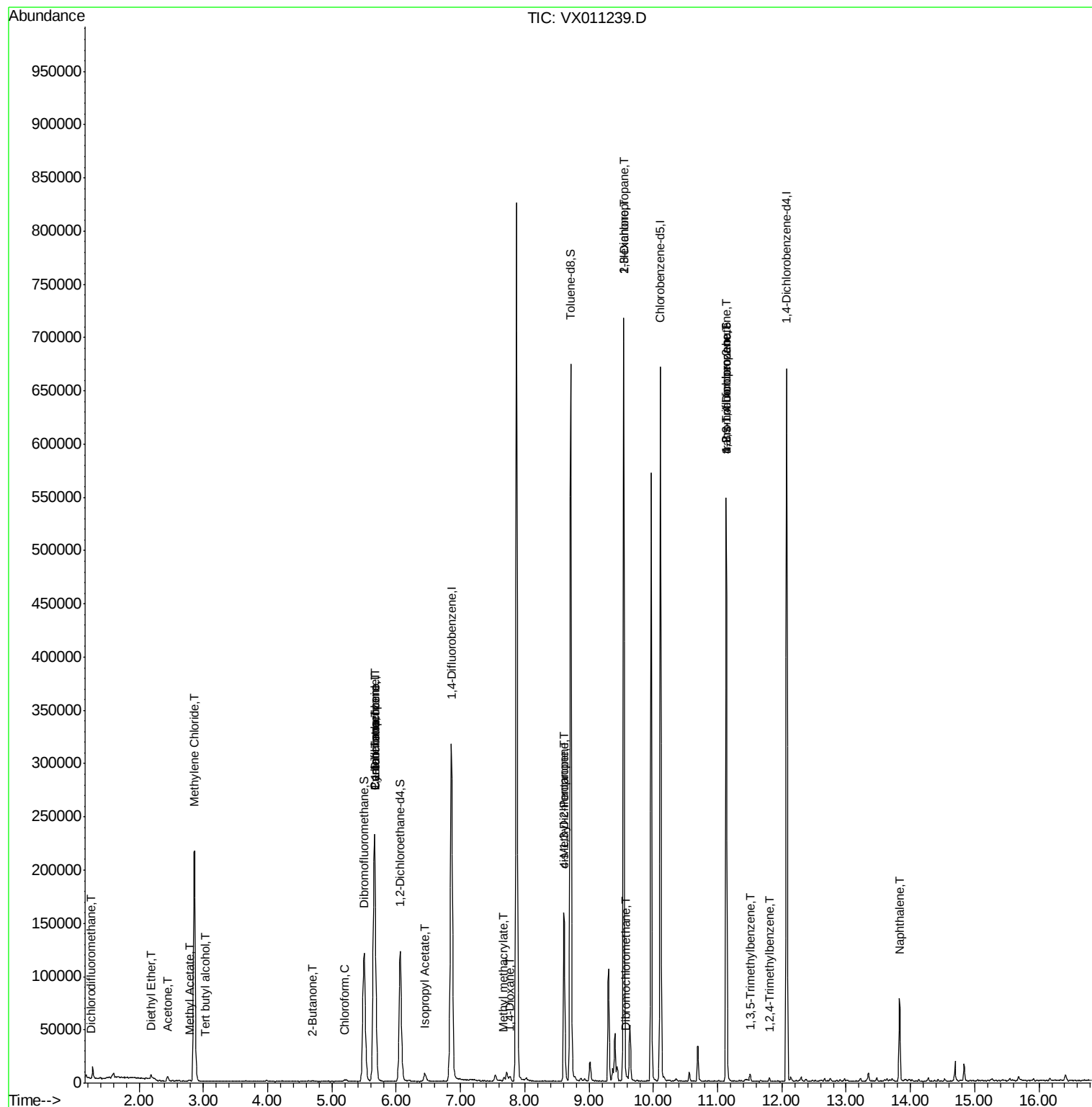
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	234441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	336360	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	305031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	142059	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	114409	45.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.74%	
35) Dibromofluoromethane	5.50	113	101609	47.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.18%	
50) Toluene-d8	8.71	98	398042	49.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	11.13	95	131376	44.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.28%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.25	85	45	0.564	ug/l #	43
8) Diethyl Ether	2.18	74	1409	1.099	ug/l	100
11) Tert butyl alcohol	3.04	59	233	0.401	ug/l #	73
16) Acetone	2.44	43	5150	4.572	ug/l	94
18) Methyl Acetate	2.78	43	1167	0.455	ug/l #	85
20) Methylene Chloride	2.86	84	107360	44.973	ug/l	98
25) 2-Butanone	4.69	43	481	0.297	ug/l	95
30) Chloroform	5.20	83	1658	0.413	ug/l	85
31) Cyclohexane	5.66	56	4646	1.372	ug/l #	7
36) 1,1-Dichloropropene	5.66	75	15598	5.646	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22134	7.688	ug/l #	18
43) Isopropyl Acetate	6.45	43	10666	2.293	ug/l	96
48) Methyl methacrylate	7.67	41	4758	2.100	ug/l #	10
49) 1,4-Dioxane	7.76	88	20	0.316	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	51936	17.223	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	26271	8.014	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	6646	1.830	ug/l #	44
59) 2-Hexanone	9.54	43	82695	35.356	ug/l #	51
60) Dibromochloromethane	9.58	129	46	2.544	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	67590	26.366	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	2953	0.368	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.13	75	67590	65.463	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	1764	0.218	ug/l	88
95) Naphthalene	13.83	128	47996	5.267	ug/l	100

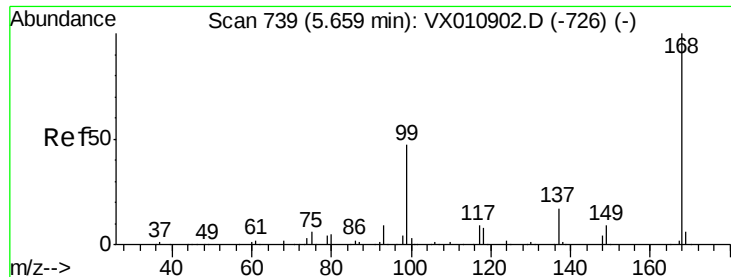
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampleId :

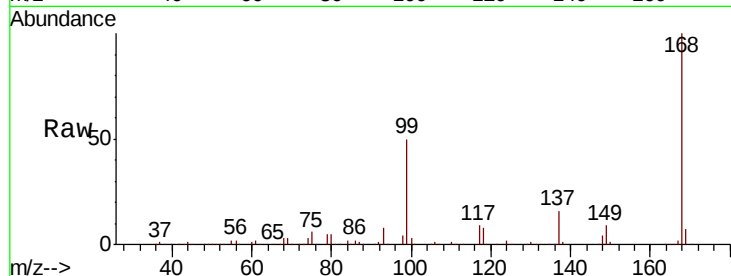
TP-3

Tgt Ion:168 Resp: 234441

Ion Ratio Lower Upper

168 100

99 49.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

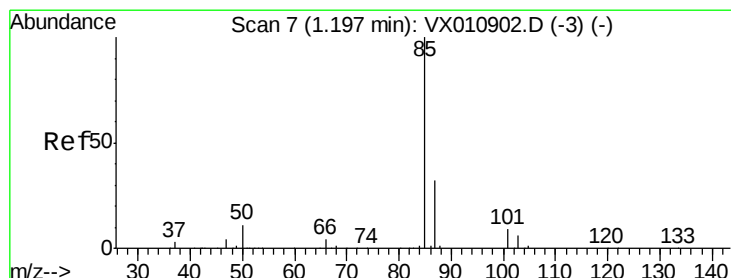
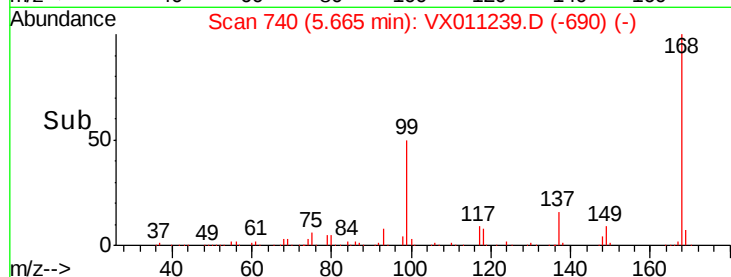
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.564 ug/l

RT: 1.25 min Scan# 16

Delta R.T. 0.06 min

Lab File: VX011239.D

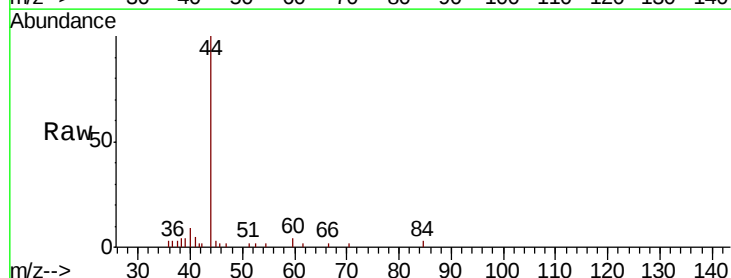
Acq: 31 Jul 2019 09:15

Tgt Ion: 85 Resp: 45

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.25

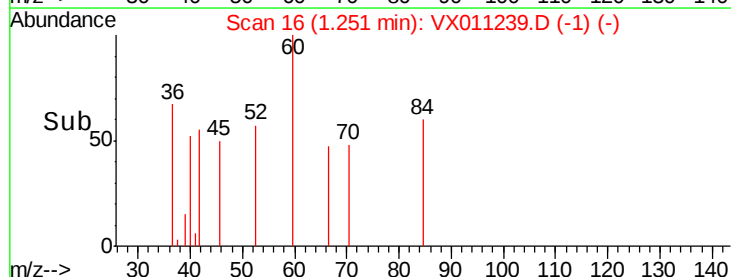
60

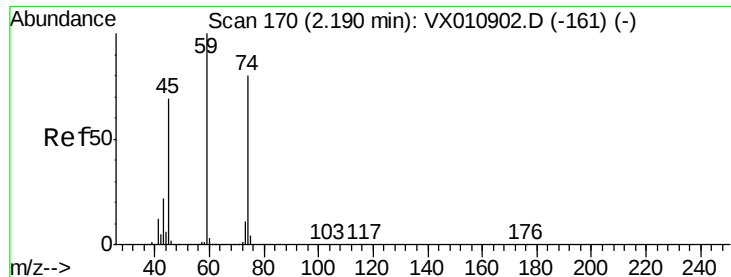
40

20

0

Time--> 1.22 1.24 1.26





#8

Diethyl Ether

Concen: 1.099 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampled :

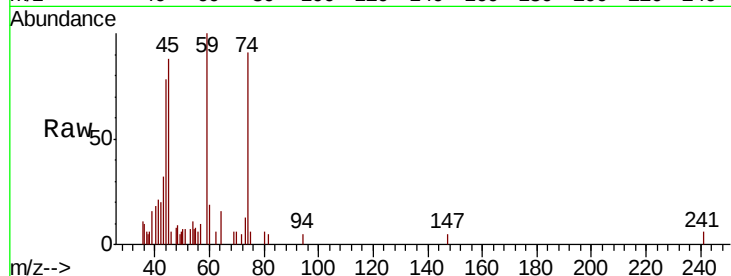
TP-3

Tgt Ion: 74 Resp: 1409

Ion Ratio Lower Upper

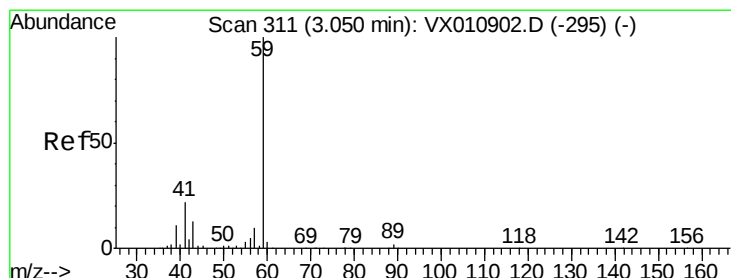
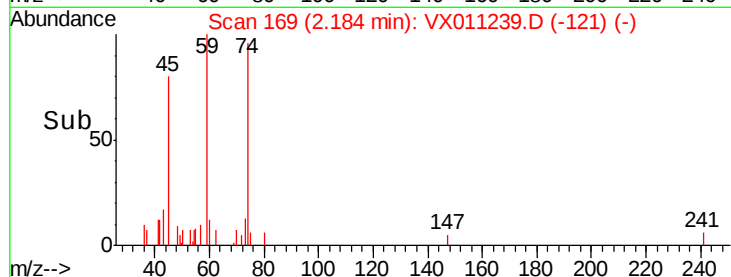
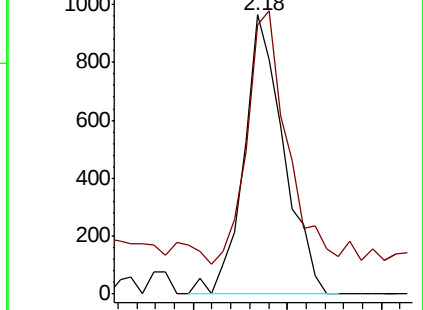
74 100

45 90.8 45.5 136.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.401 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX011239.D

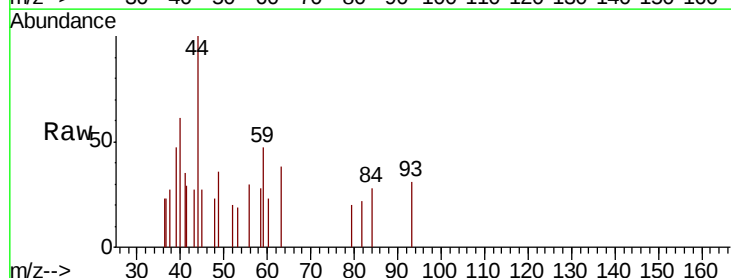
Acq: 31 Jul 2019 09:15

Tgt Ion: 59 Resp: 233

Ion Ratio Lower Upper

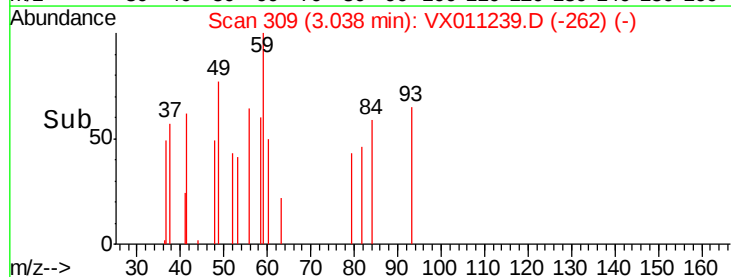
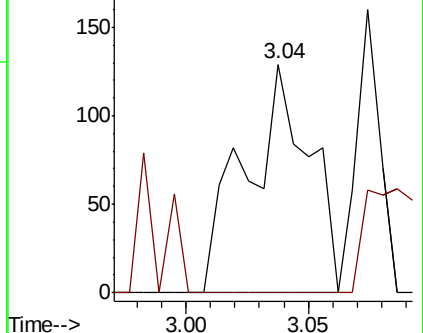
59 100

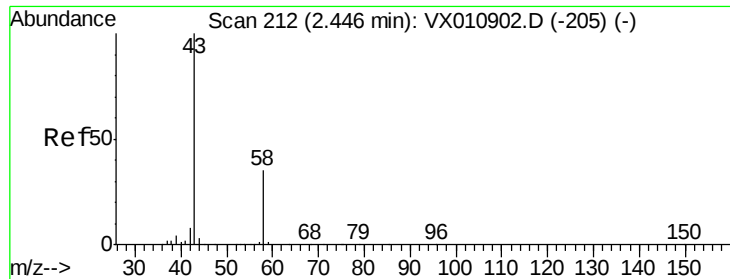
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.572 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampleId :

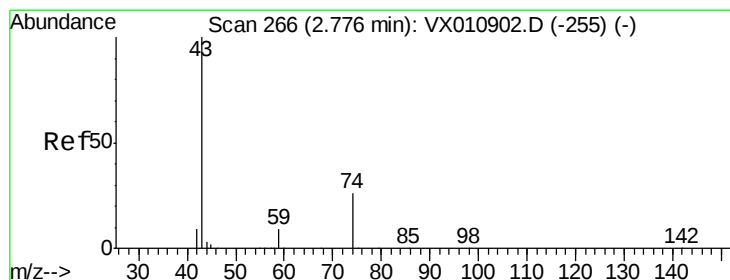
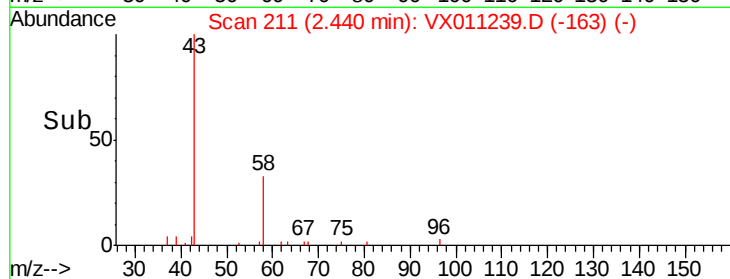
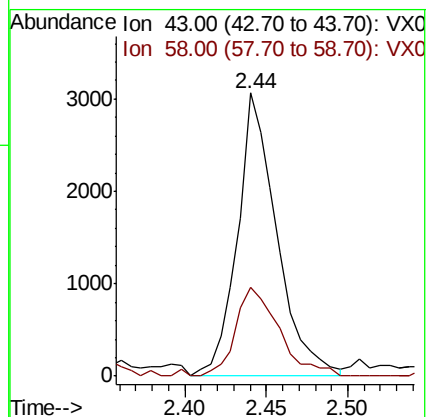
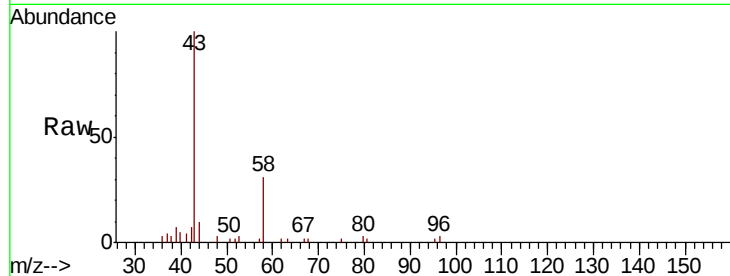
TP-3

Tgt Ion: 43 Resp: 5150

Ion Ratio Lower Upper

43 100

58 31.4 27.7 41.5



#18

Methyl Acetate

Concen: 0.455 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX011239.D

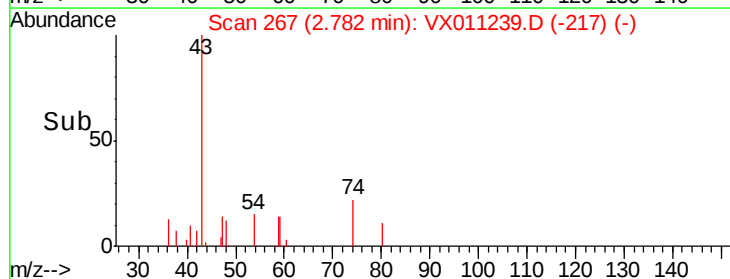
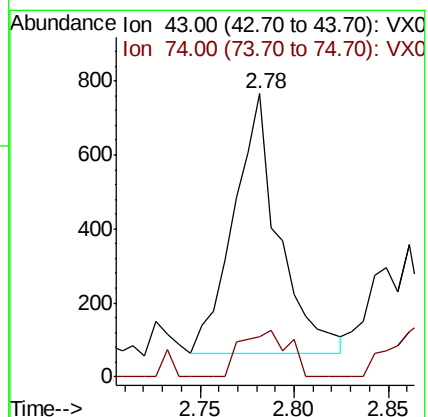
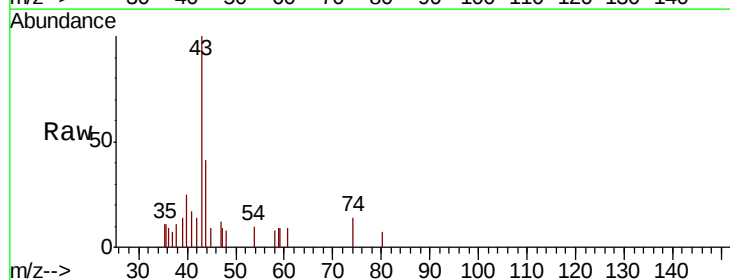
Acq: 31 Jul 2019 09:15

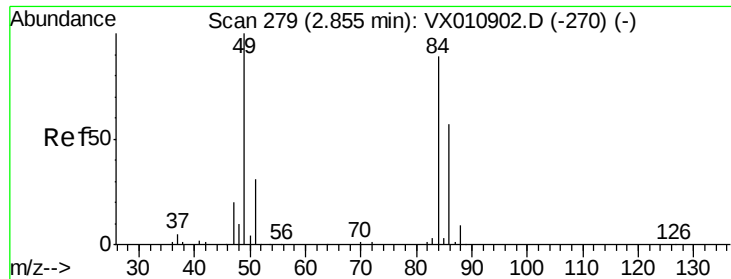
Tgt Ion: 43 Resp: 1167

Ion Ratio Lower Upper

43 100

74 18.9 21.5 32.3#





#20

Methylene Chloride

Concen: 44.973 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampleId :

TP-3

Tgt Ion: 84 Resp: 107360

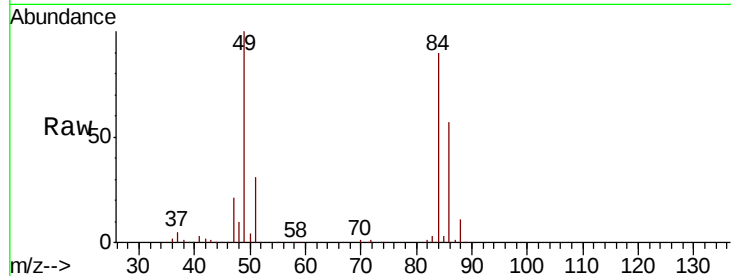
Ion Ratio Lower Upper

84 100

49 110.4 89.9 134.9

51 34.1 27.8 41.6

86 63.0 51.8 77.6

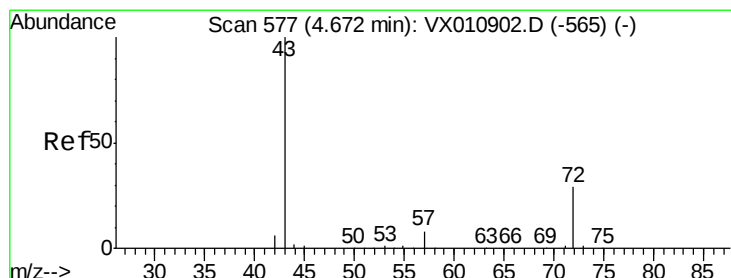
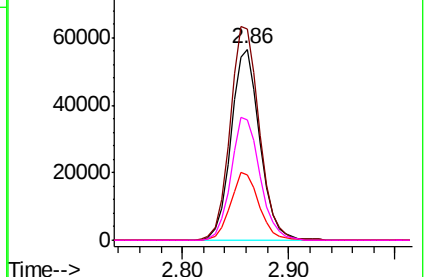
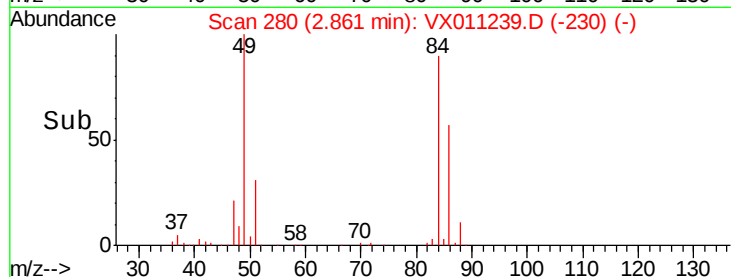


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.297 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX011239.D

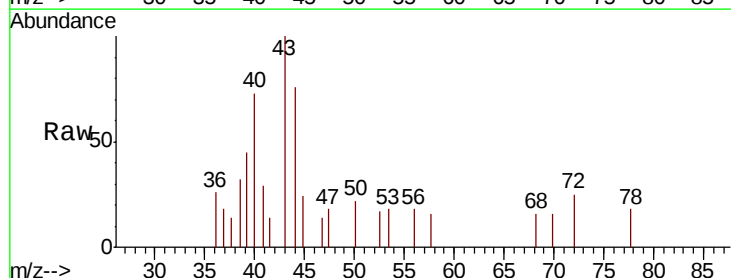
Acq: 31 Jul 2019 09:15

Tgt Ion: 43 Resp: 481

Ion Ratio Lower Upper

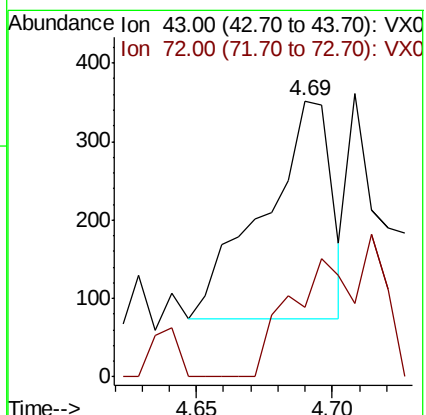
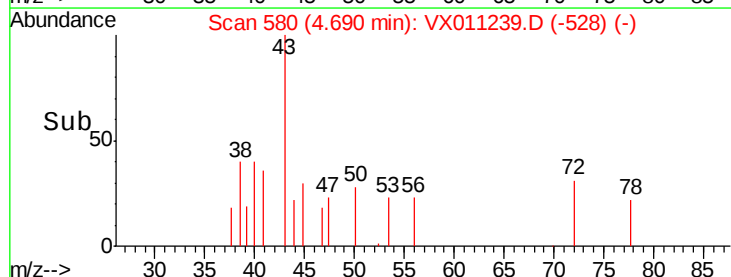
43 100

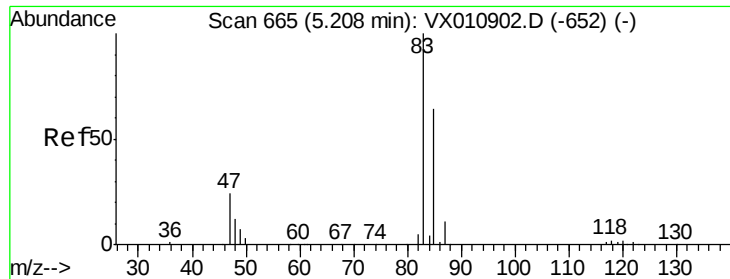
72 31.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

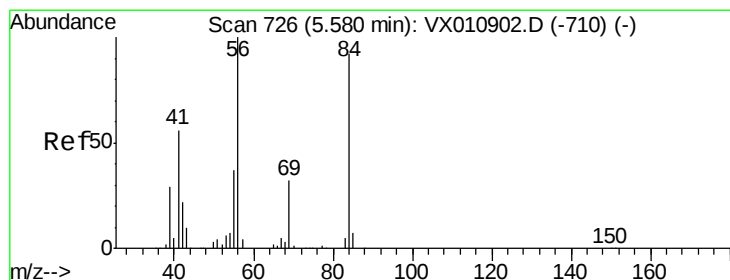
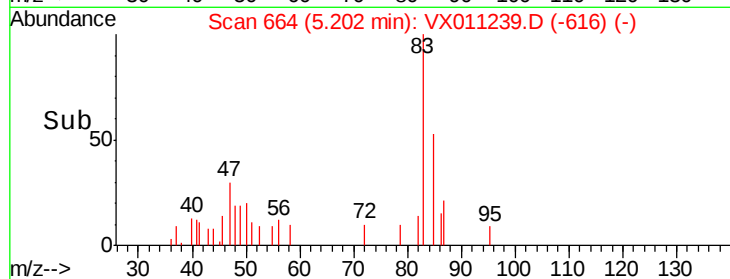
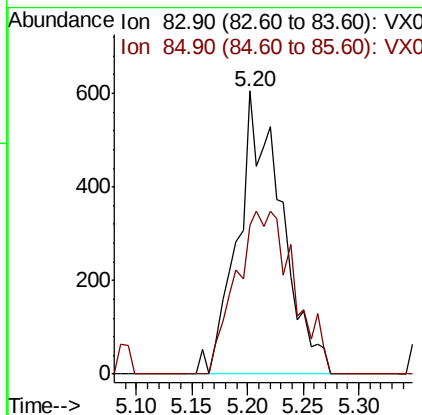
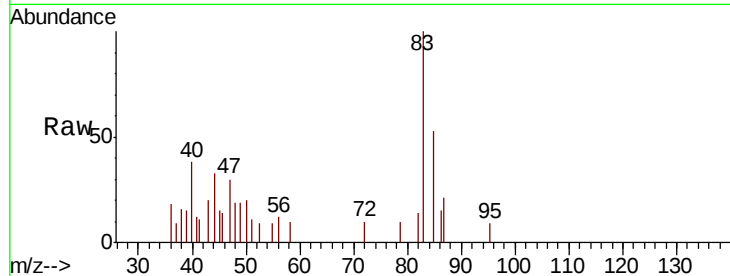




#30
Chloroform
Concen: 0.413 ug/l
RT: 5.20 min Scan# 664
Delta R.T. -0.01 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

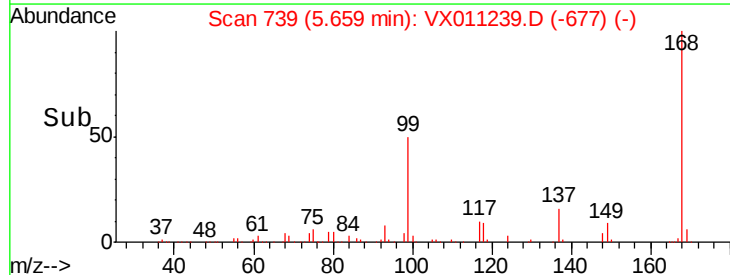
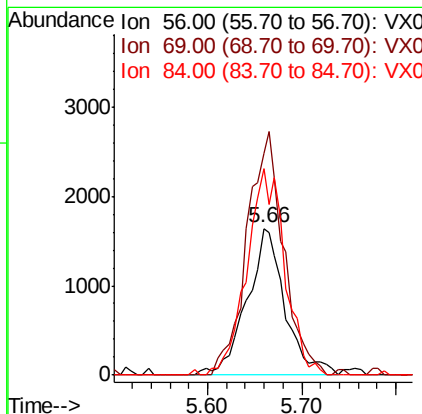
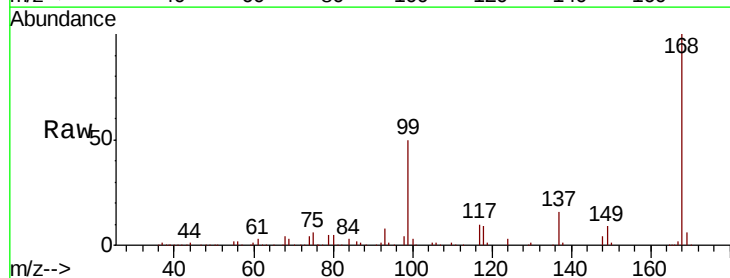
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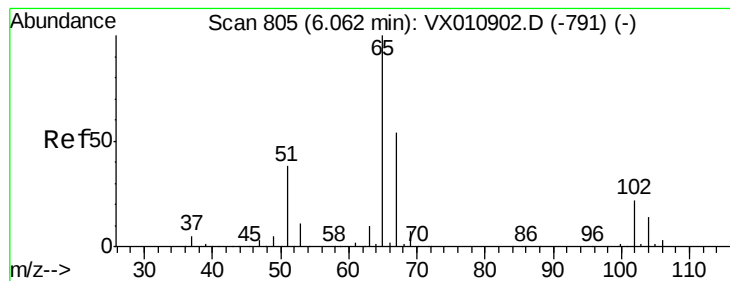
Tgt Ion: 83 Resp: 1658
Ion Ratio Lower Upper
83 100
85 52.6 51.4 77.0



#31
Cyclohexane
Concen: 1.372 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

Tgt Ion: 56 Resp: 4646
Ion Ratio Lower Upper
56 100
69 151.4 25.8 38.8#
84 140.8 73.8 110.6#





#33

1,2-Dichloroethane-d4

Concen: 45.872 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampled :

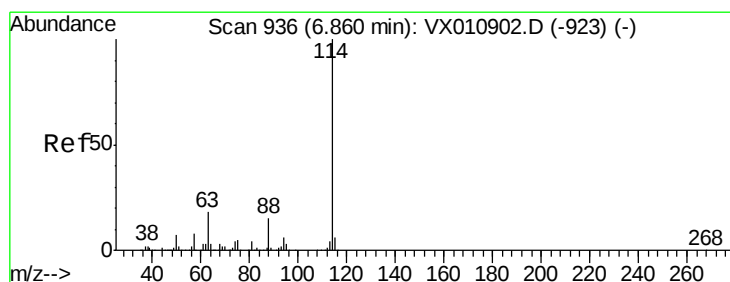
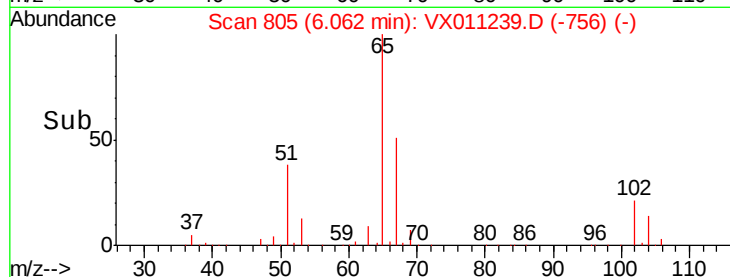
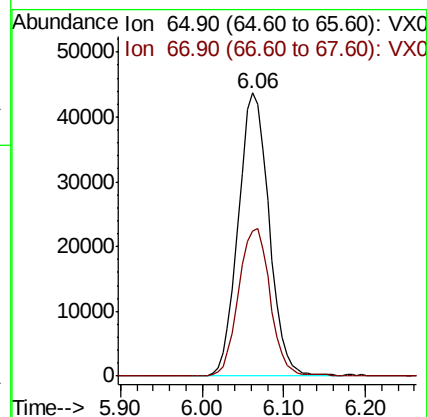
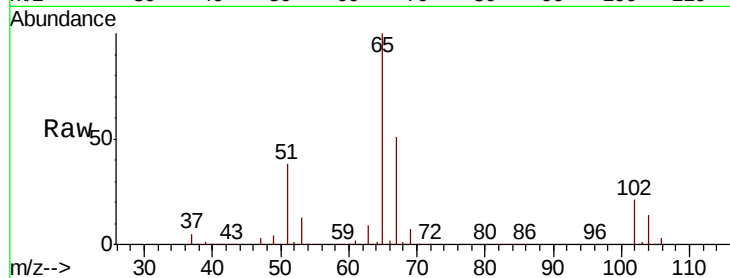
TP-3

Tgt Ion: 65 Resp: 114409

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

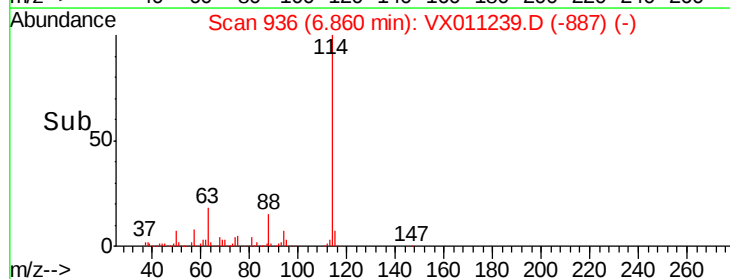
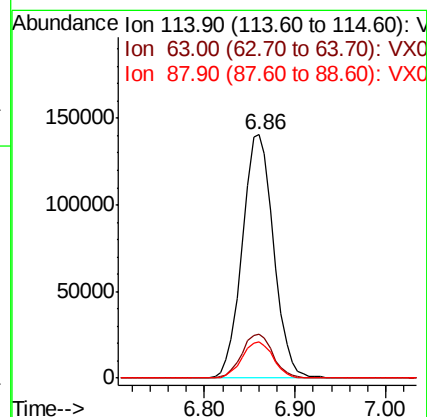
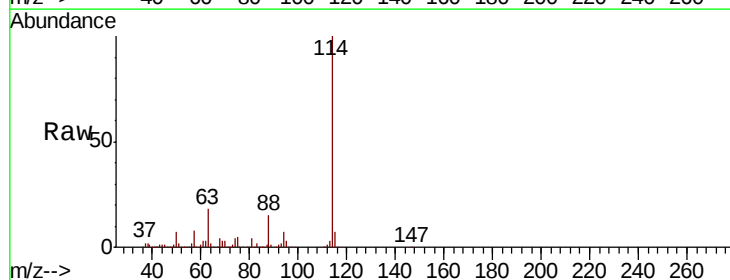
Tgt Ion: 114 Resp: 336360

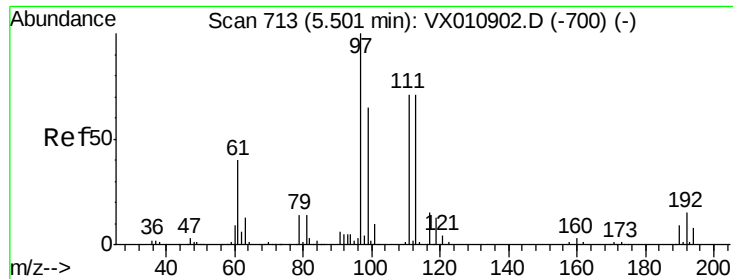
Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

88 15.0 0.0 29.8

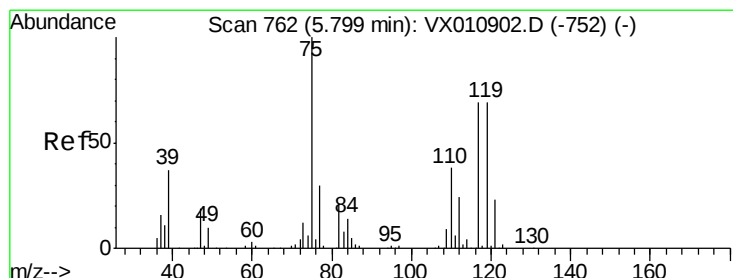
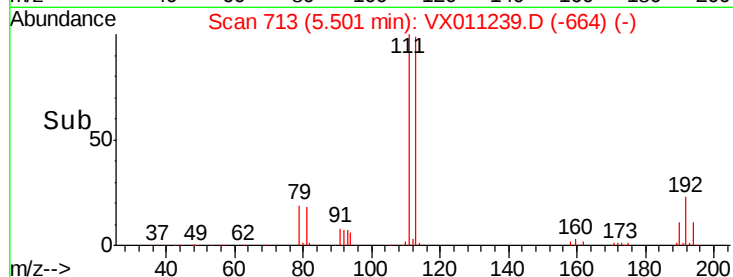
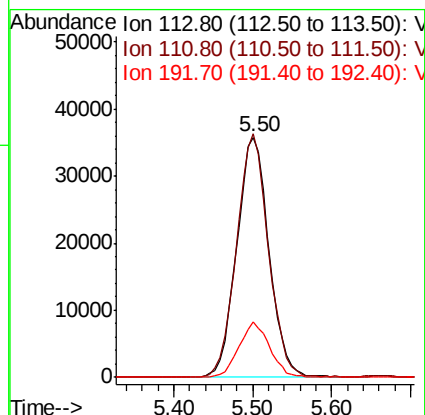
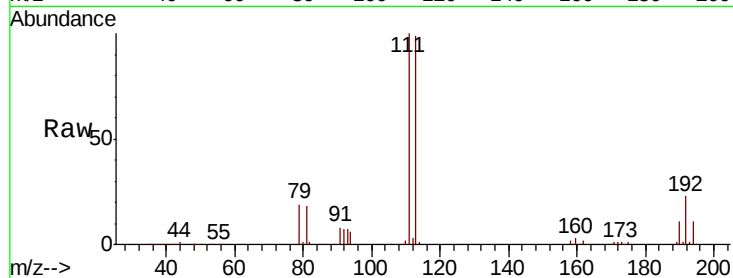




#35
 Dibromofluoromethane
 Concen: 47.593 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

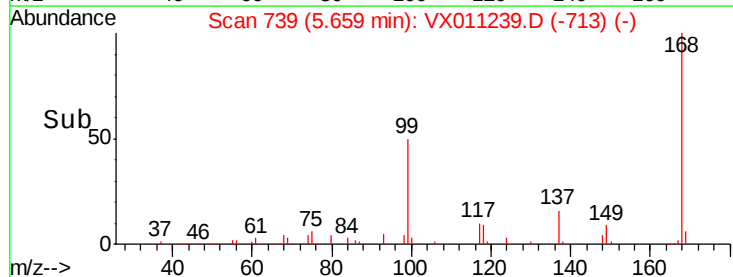
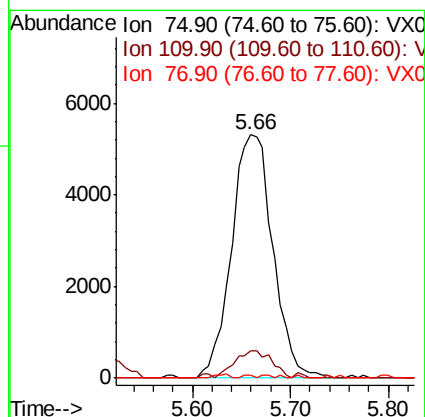
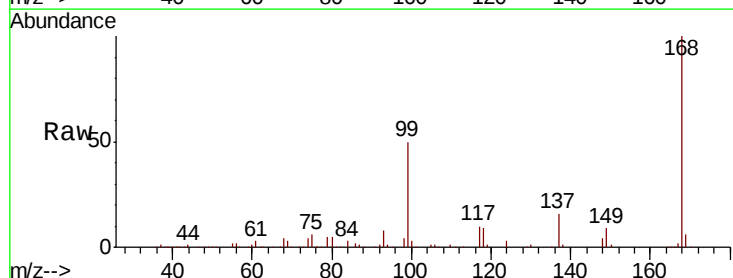
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

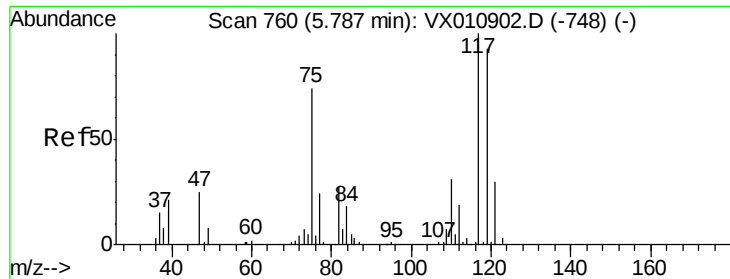
Tgt Ion:113 Resp: 101609
 Ion Ratio Lower Upper
 113 100
 111 100.0 82.3 123.5
 192 21.9 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.646 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

Tgt Ion: 75 Resp: 15598
 Ion Ratio Lower Upper
 75 100
 110 10.5 19.9 59.7#
 77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 7.688 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampled :

TP-3

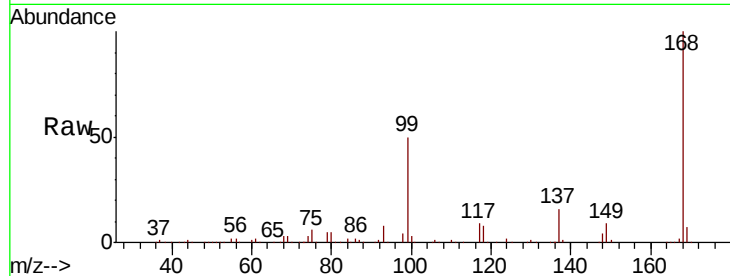
Tgt Ion:117 Resp: 22134

Ion Ratio Lower Upper

117 100

119 4.9 74.2 111.2#

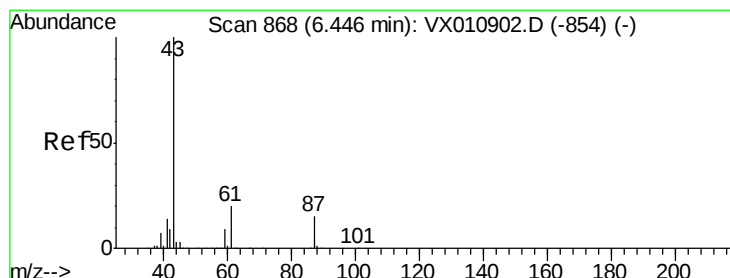
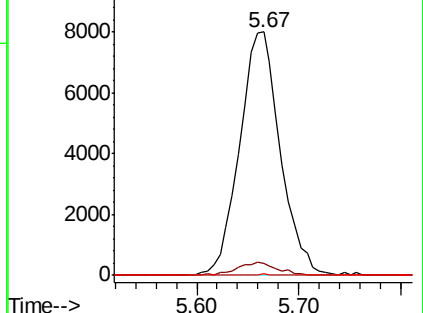
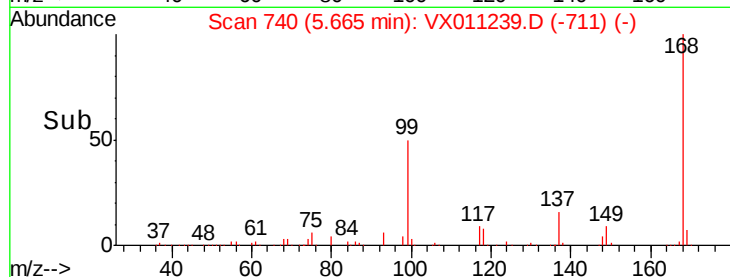
121 0.7 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.293 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

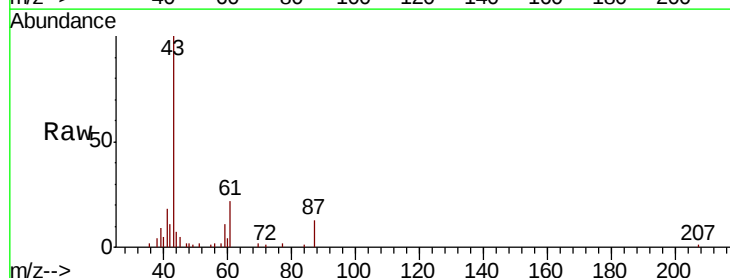
Tgt Ion: 43 Resp: 10666

Ion Ratio Lower Upper

43 100

61 23.7 17.1 25.7

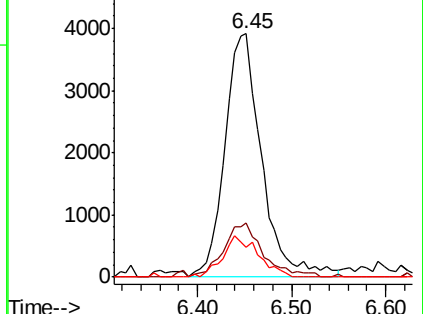
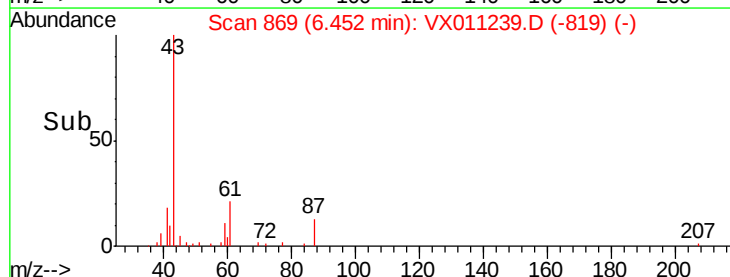
87 16.3 12.0 18.0

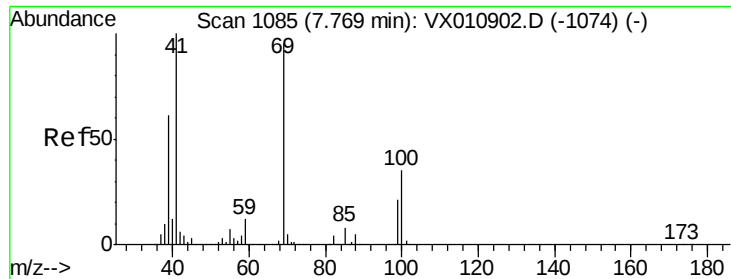


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

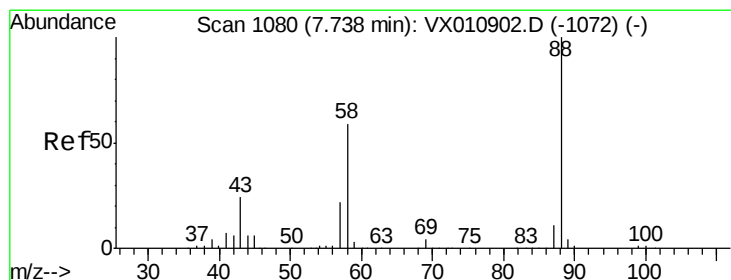
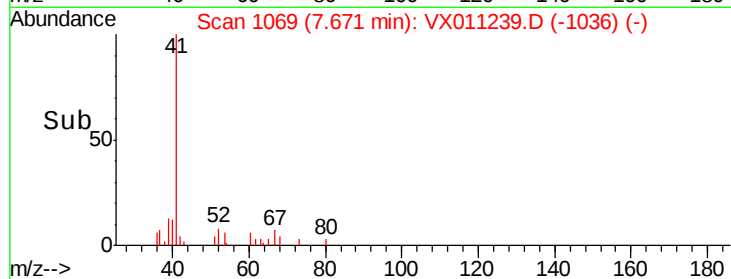
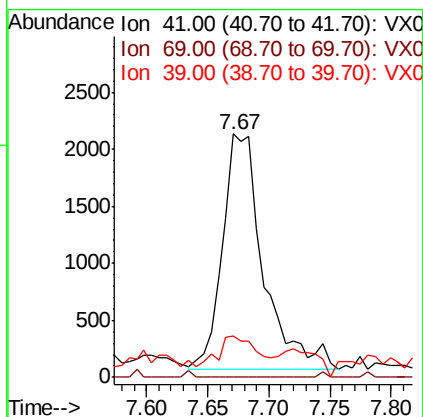
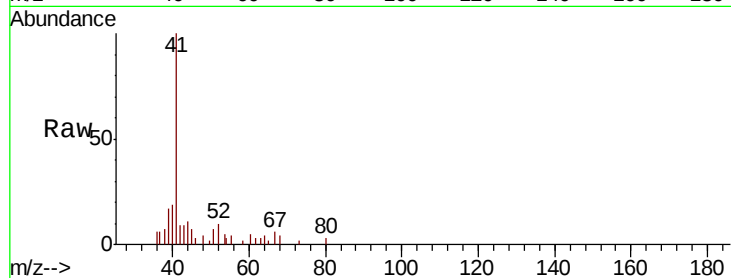




#48
Methyl methacrylate
Concen: 2.100 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.10 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

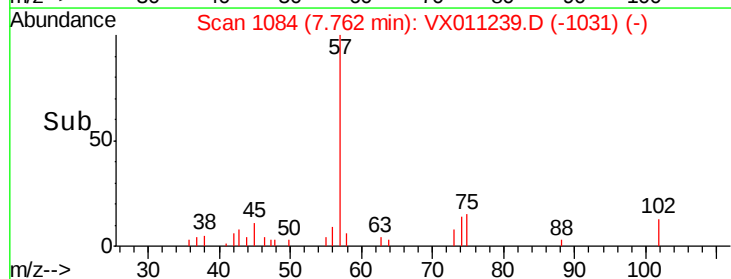
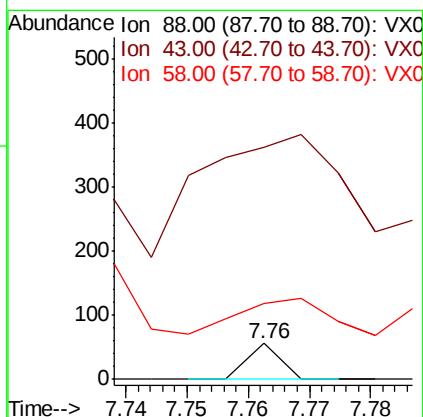
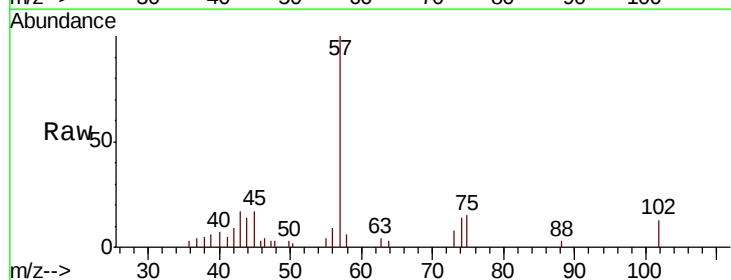
Instrument :
MSVOA_X
ClientSampled :
TP-3

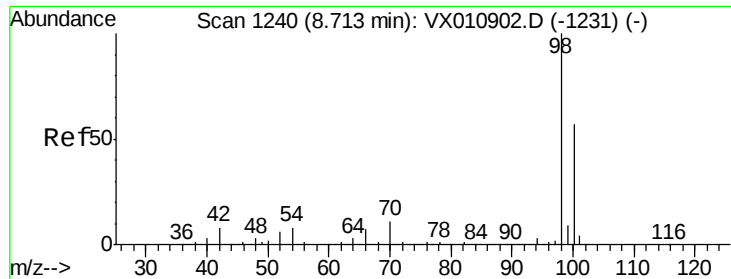
Tgt Ion: 41 Resp: 4758
Ion Ratio Lower Upper
41 100
69 0.0 74.4 111.6#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.316 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 1105.0 49.8 74.8#

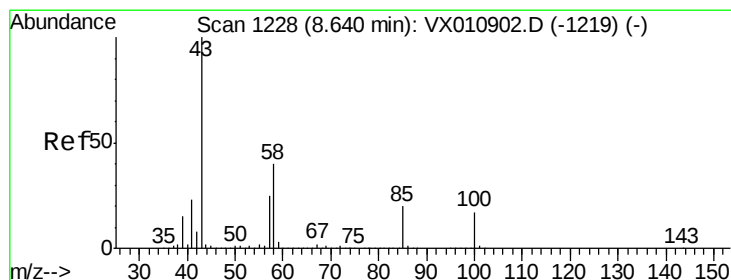
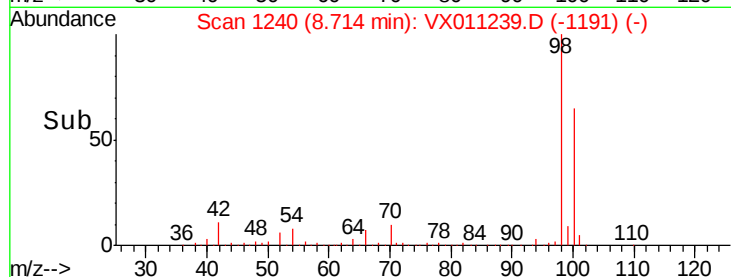
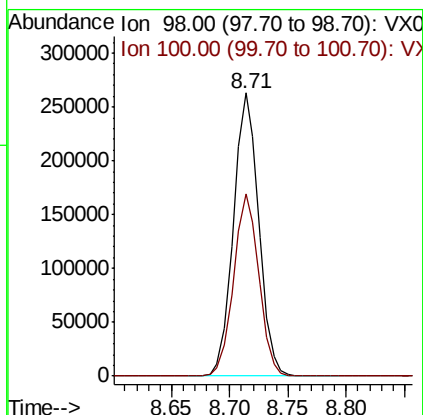
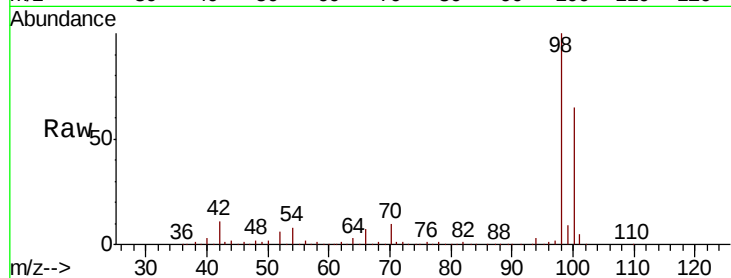




#50
Toluene-d8
Concen: 49.709 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

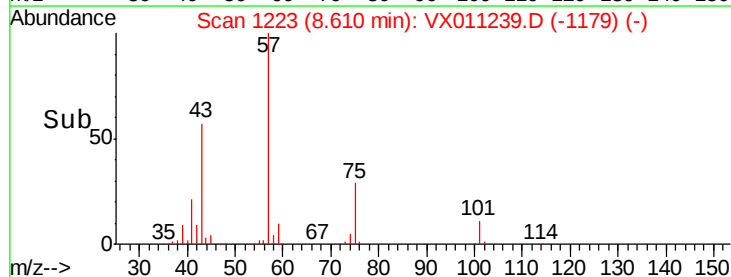
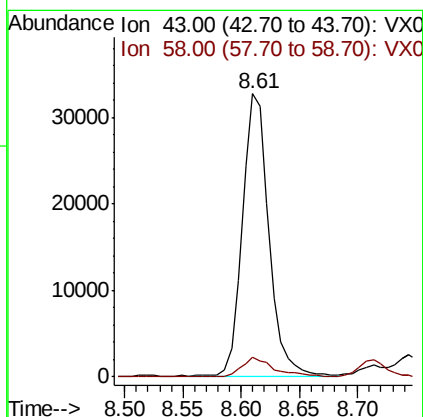
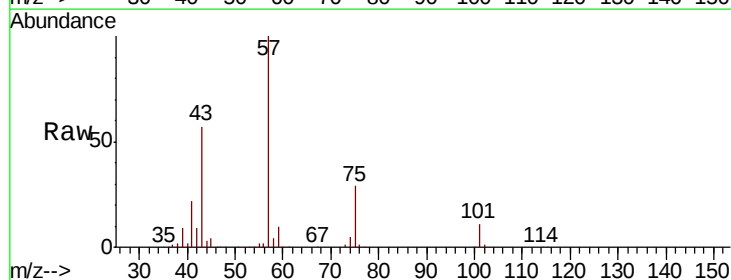
Instrument :
MSVOA_X
ClientSampleId :
TP-3

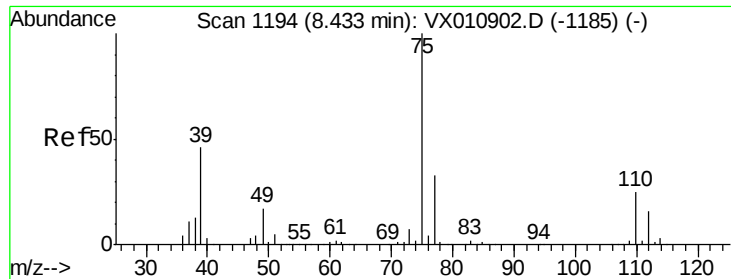
Tgt Ion: 98 Resp: 398042
Ion Ratio Lower Upper
98 100
100 64.3 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 17.223 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

Tgt Ion: 43 Resp: 51936
Ion Ratio Lower Upper
43 100
58 8.4 32.2 48.4#



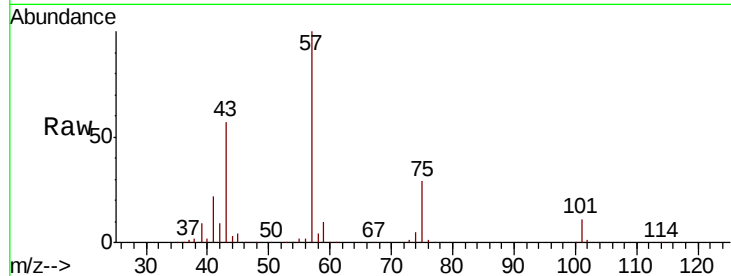


#54

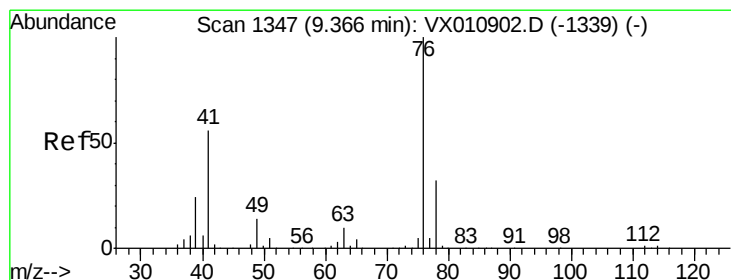
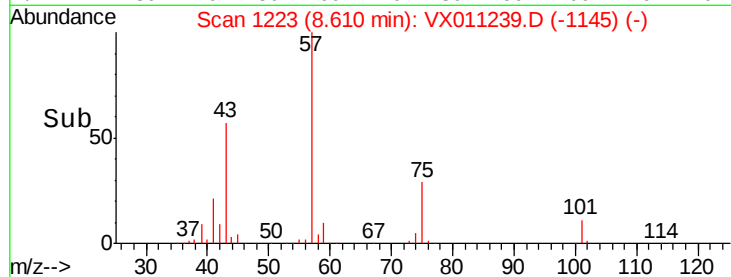
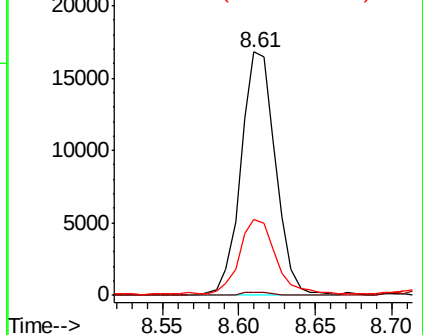
cis-1,3-Dichloropropene
 Concen: 8.014 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Tgt Ion: 75 Resp: 26271
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.1 39.1#
 39 30.3 36.6 54.8#



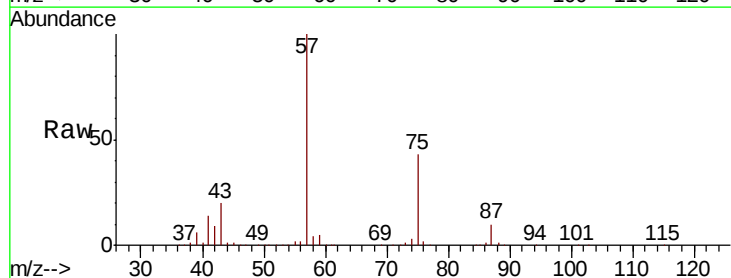
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



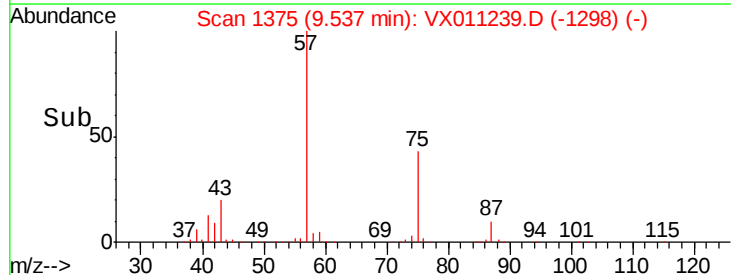
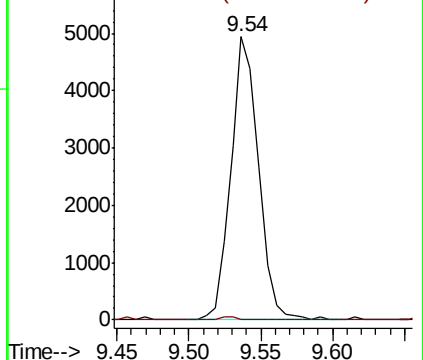
#57

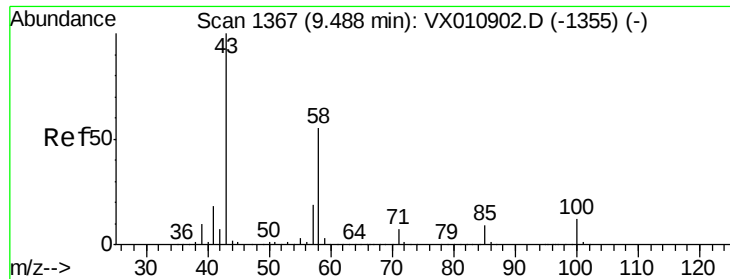
1,3-Dichloropropane
 Concen: 1.830 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

Tgt Ion: 76 Resp: 6646
 Ion Ratio Lower Upper
 76 100
 78 0.6 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

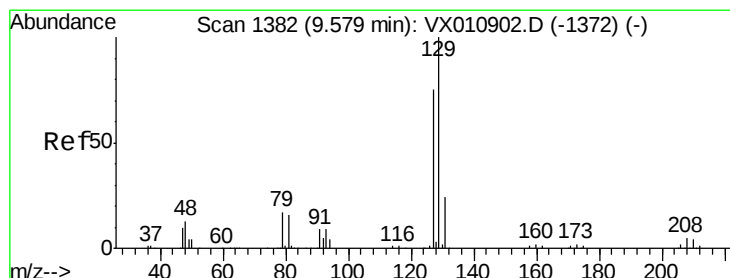
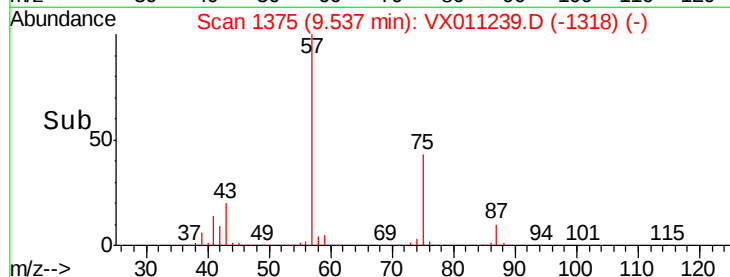
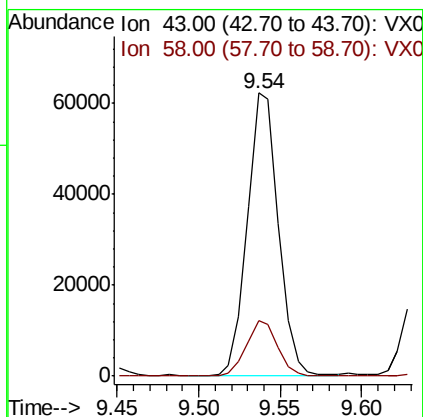
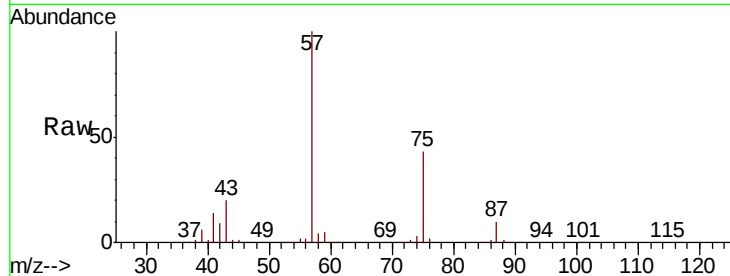




#59
2-Hexanone
Concen: 35.356 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

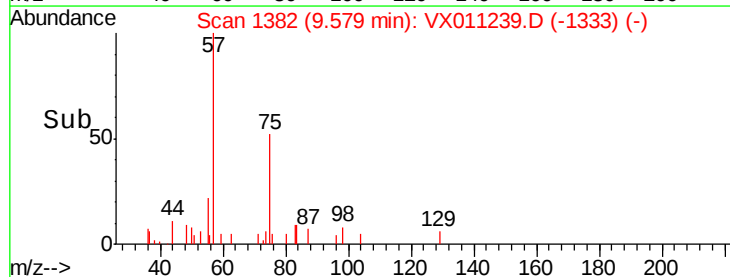
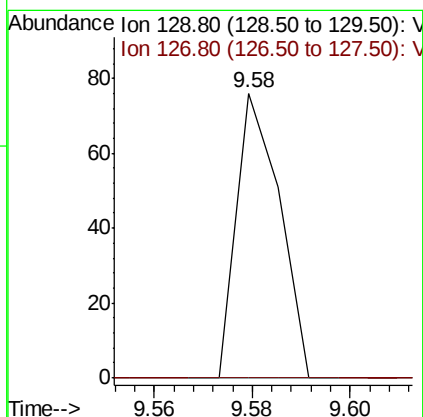
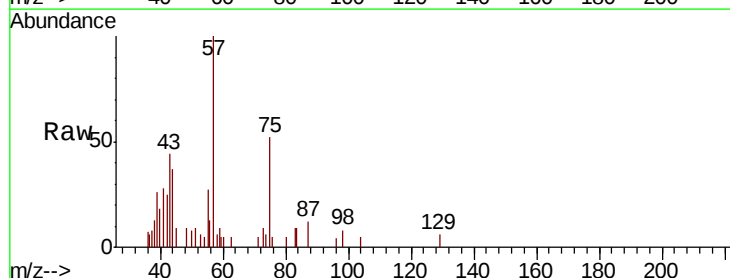
Instrument :
MSVOA_X
ClientSampleId :
TP-3

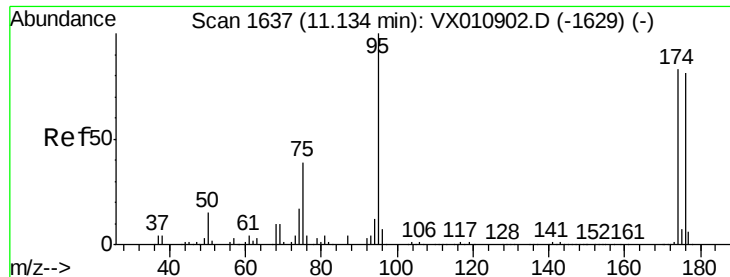
Tgt Ion: 43 Resp: 82695
Ion Ratio Lower Upper
43 100
58 20.2 28.0 83.9#



#60
Dibromochloromethane
Concen: 2.544 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

Tgt Ion: 129 Resp: 46
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 44.636 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

Instrument :

MSVOA_X

ClientSampled :

TP-3

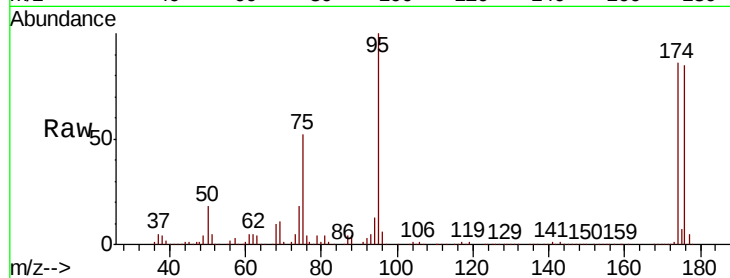
Tgt Ion: 95 Resp: 131376

Ion Ratio Lower Upper

95 100

174 91.2 0.0 180.6

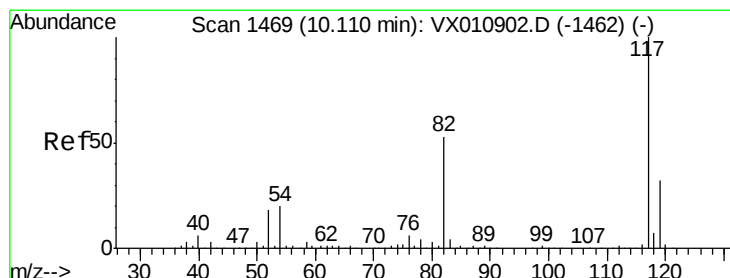
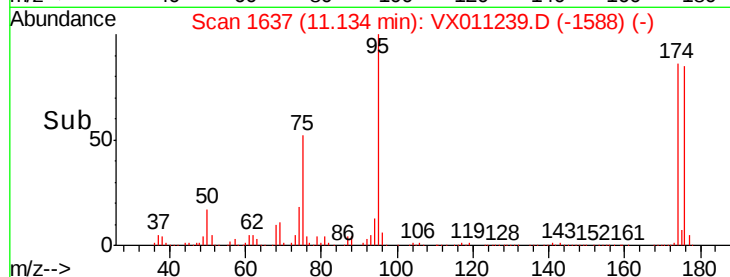
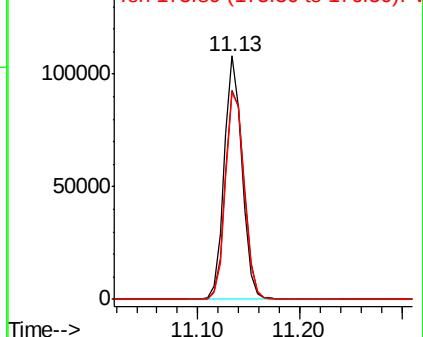
176 88.7 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011239.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011239.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011239.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011239.D

Acq: 31 Jul 2019 09:15

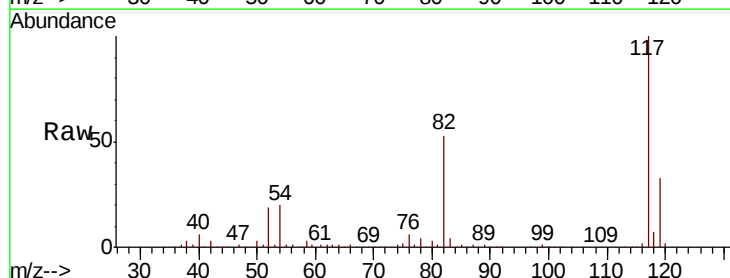
Tgt Ion: 117 Resp: 305031

Ion Ratio Lower Upper

117 100

82 52.7 42.6 63.8

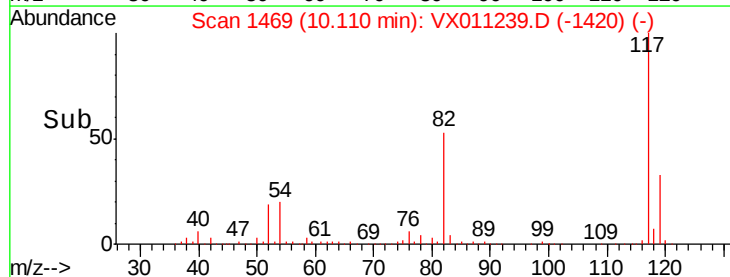
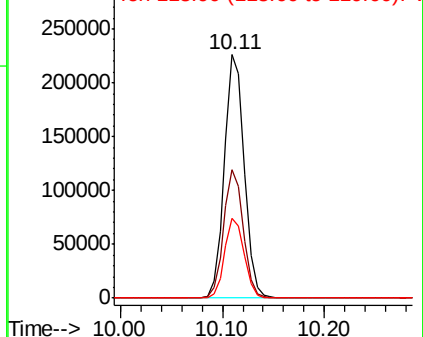
119 32.6 25.9 38.9

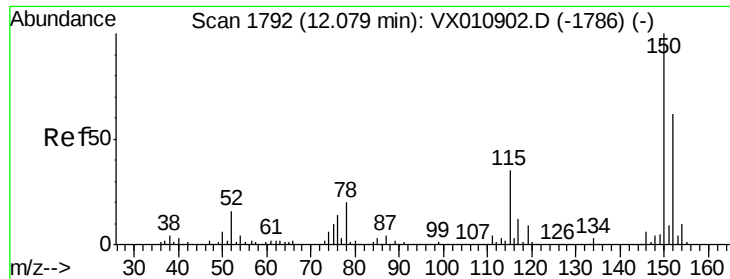


Abundance Ion 116.90 (116.60 to 117.60): VX011239.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011239.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011239.D (-1420) (-)



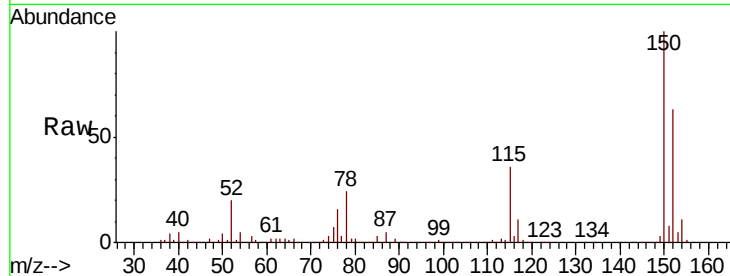


#72

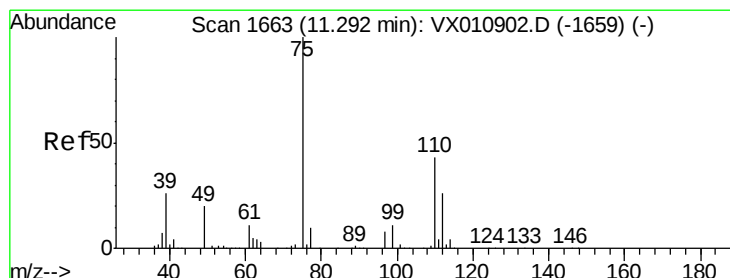
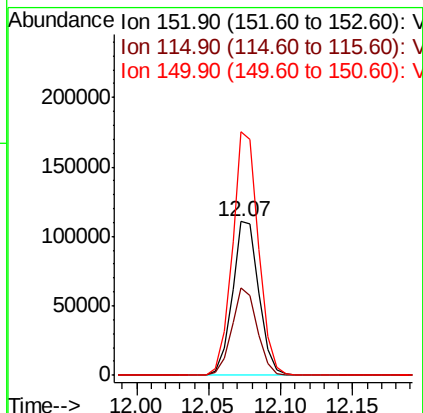
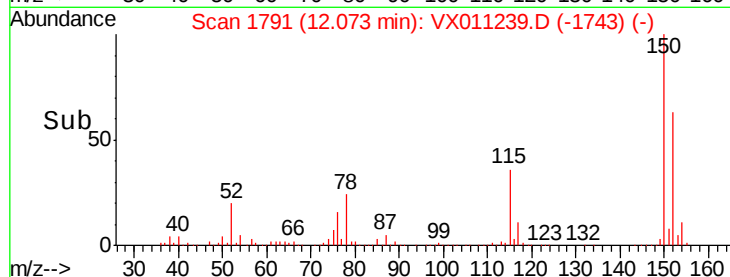
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

Instrument :
MSVOA_X
ClientSampleId :
TP-3

Tgt Ion:152 Resp: 142059
Ion Ratio Lower Upper
152 100
115 54.8 39.7 119.1
150 156.0 0.0 345.6



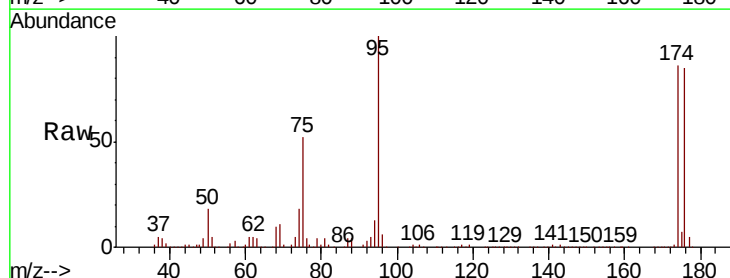
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



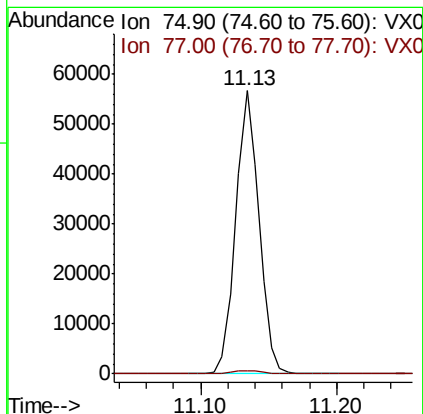
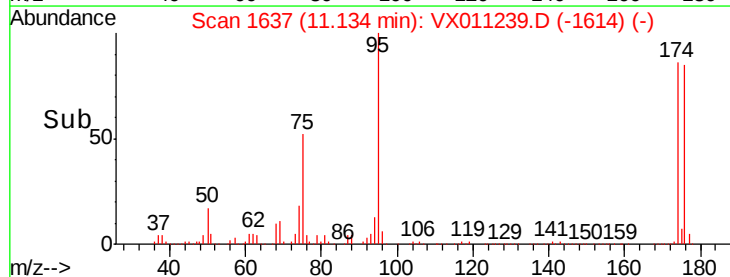
#76

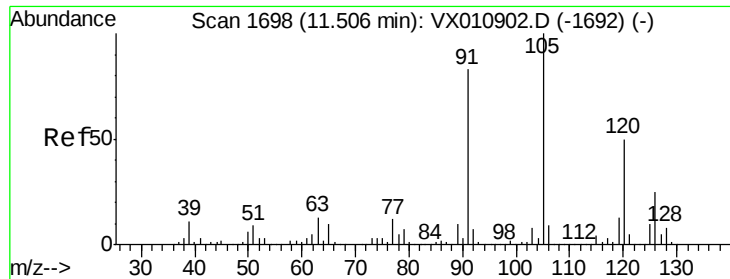
1,2,3-Trichloropropane
Concen: 26.366 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011239.D
Acq: 31 Jul 2019 09:15

Tgt Ion: 75 Resp: 67590
Ion Ratio Lower Upper
75 100
77 1.5 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

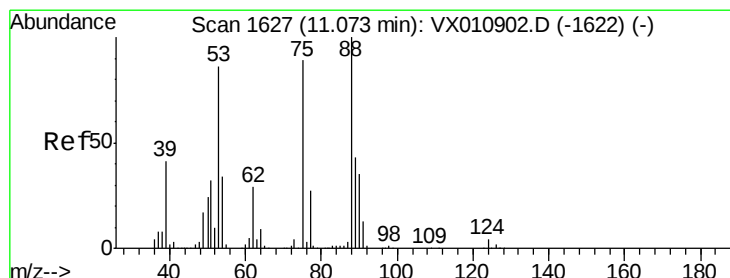
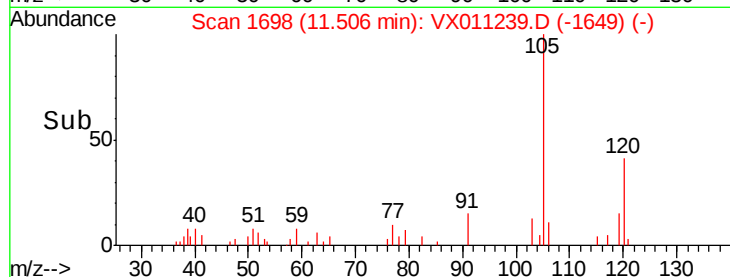
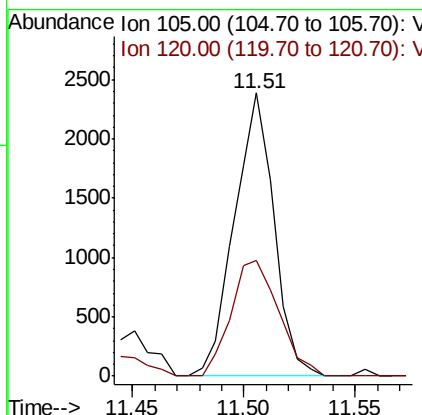
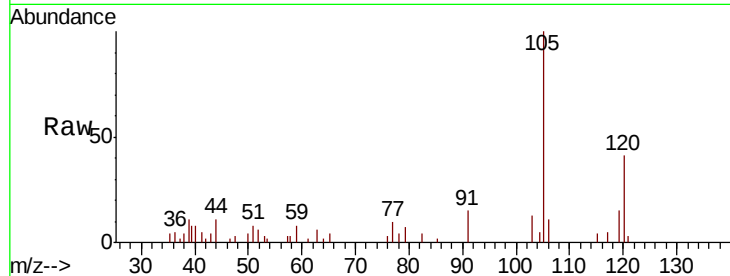




#80
 1,3,5-Trimethylbenzene
 Concen: 0.368 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

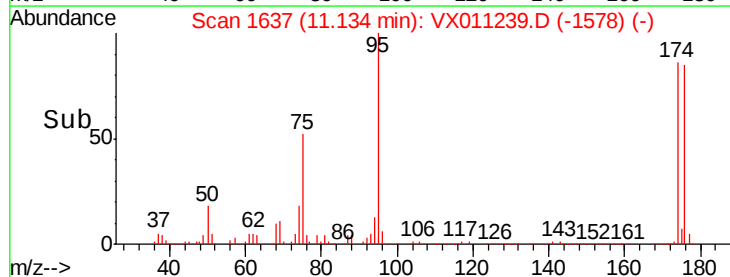
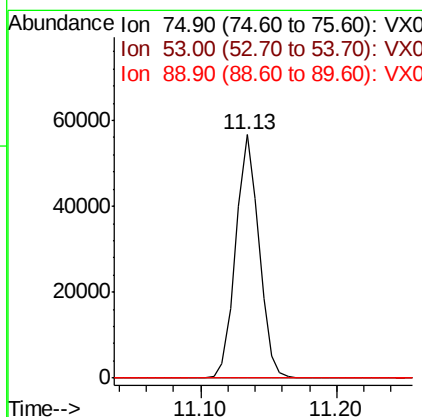
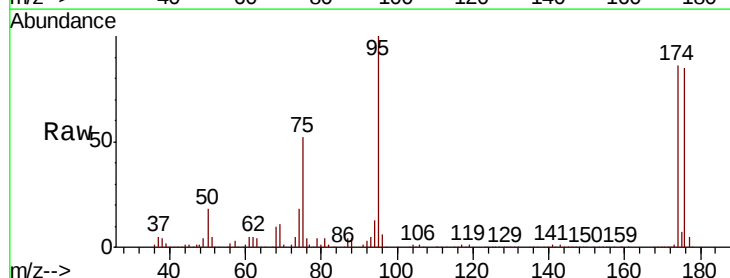
Instrument :
 MSVOA_X
 ClientSampled :
 TP-3

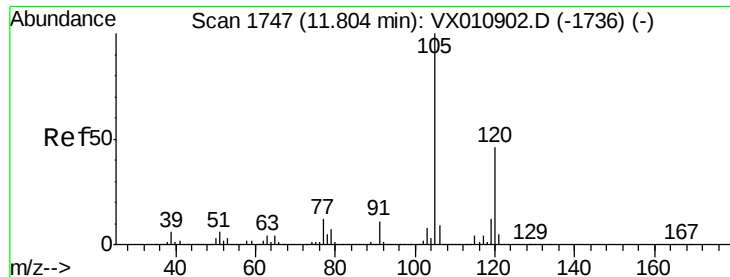
Tgt Ion: 105 Resp: 2953
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.6 73.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.463 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

Tgt Ion: 75 Resp: 67590
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.7 115.1#
 89 0.1 38.5 57.7#

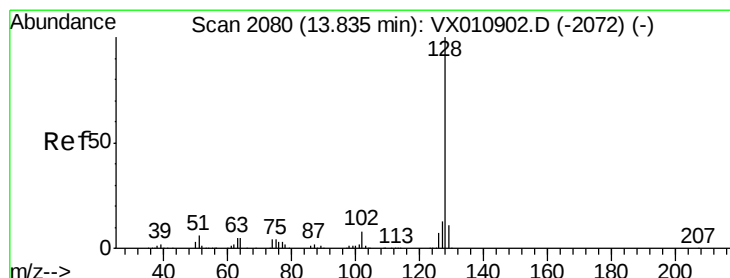
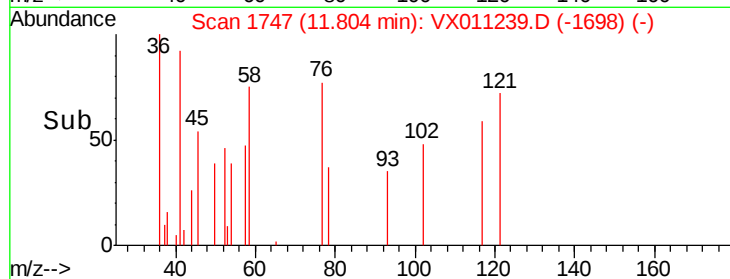
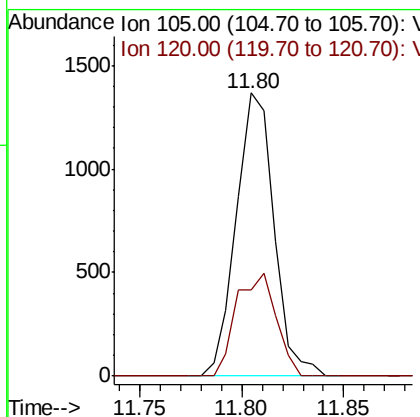
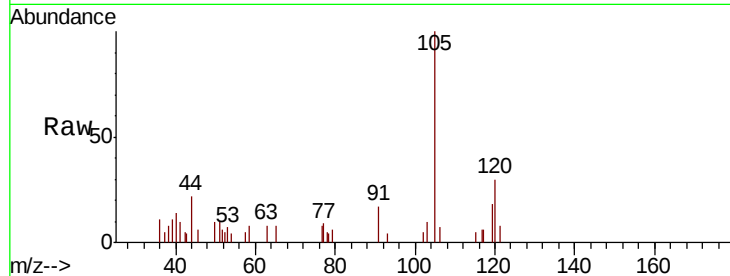




#84
 1,2,4-Trimethylbenzene
 Concen: 0.218 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Tgt Ion:105 Resp: 1764
 Ion Ratio Lower Upper
 105 100
 120 38.0 22.9 68.5



#95
 Naphthalene
 Concen: 5.267 ug/l
 RT: 13.83 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX011239.D
 Acq: 31 Jul 2019 09:15

Tgt Ion:128 Resp: 47996
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.4 15.6
 129 10.8 8.9 13.3

