

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011098.D
 Acq On : 26 Jul 2019 18:09
 Operator : JC/SP
 Sample : PB121723ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#04

Quant Time: Jul 27 02:04:47 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	198261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	320255	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	310244	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143445	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	110170	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
35) Dibromofluoromethane	5.50	113	100964	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	8.71	98	396158	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	11.13	95	141289	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	

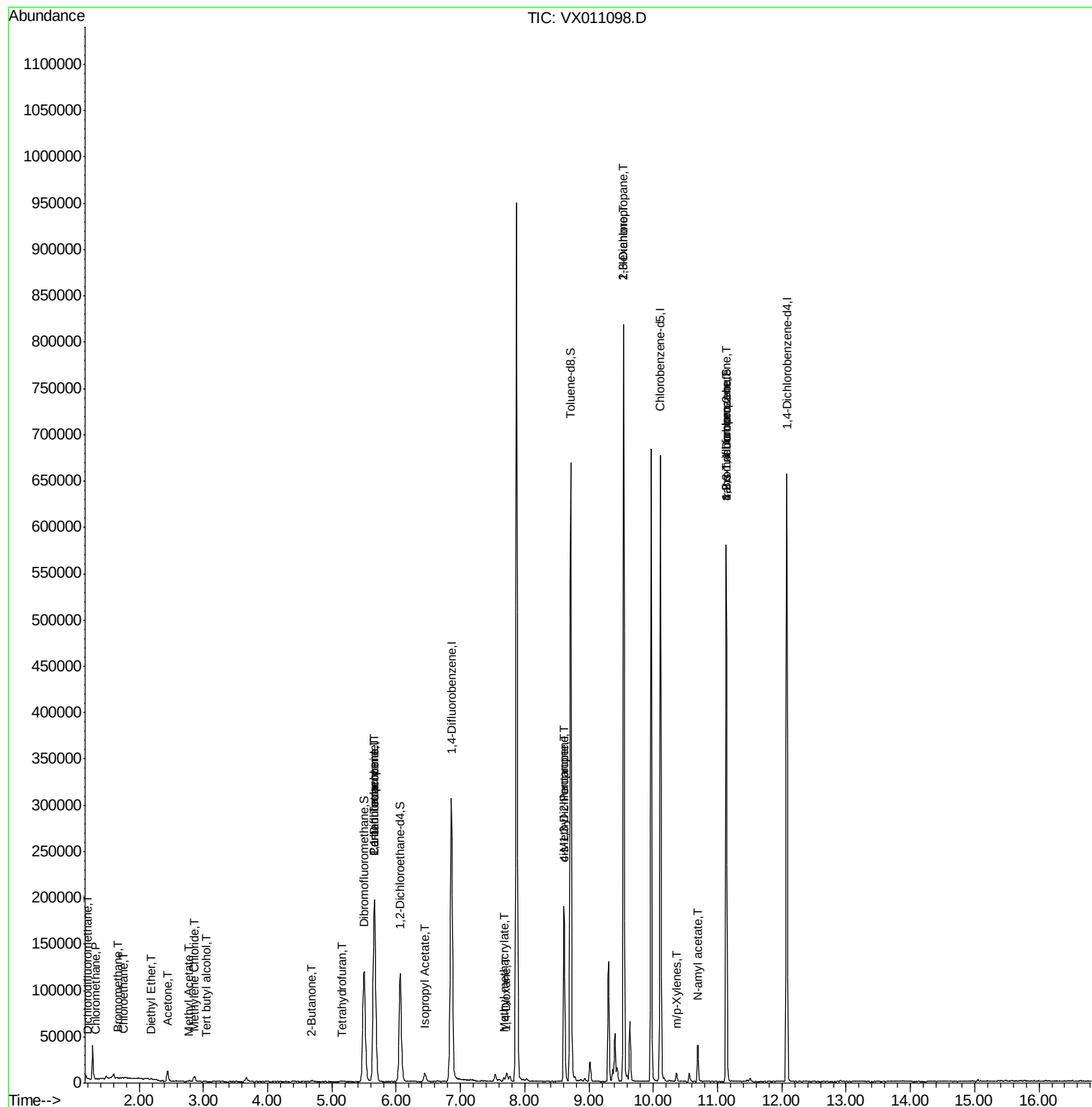
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	25	0.558	ug/l #	43
3) Chloromethane	1.33	50	376	0.206	ug/l #	73
5) Bromomethane	1.67	94	378	0.361	ug/l #	2
6) Chloroethane	1.75	64	282	0.239	ug/l #	64
8) Diethyl Ether	2.19	74	375	0.346	ug/l	70
11) Tert butyl alcohol	3.05	59	516	1.050	ug/l #	86
16) Acetone	2.44	43	12235	12.844	ug/l	96
18) Methyl Acetate	2.77	43	1648	0.760	ug/l	99
20) Methylene Chloride	2.86	84	2940	1.456	ug/l #	82
25) 2-Butanone	4.68	43	2119	1.550	ug/l	94
29) Tetrahydrofuran	5.15	42	331	0.382	ug/l #	69
36) 1,1-Dichloropropene	5.67	75	13349	5.075	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18901	6.895	ug/l #	18
43) Isopropyl Acetate	6.45	43	11964	2.701	ug/l	95
48) Methyl methacrylate	7.68	41	5002	2.318	ug/l #	10
49) 1,4-Dioxane	7.70	88	25	0.414	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	61185	21.310	ug/l #	48
54) cis-1,3-Dichloropropene	8.61	75	30980	9.925	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	7456	2.156	ug/l #	44
59) 2-Hexanone	9.54	43	93776	42.110	ug/l #	52
68) m/p-Xylenes	10.36	106	1929	0.464	ug/l	87
74) N-amyl acetate	10.69	43	9245	2.496	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	71264	27.531	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	71264	68.178	ug/l #	11

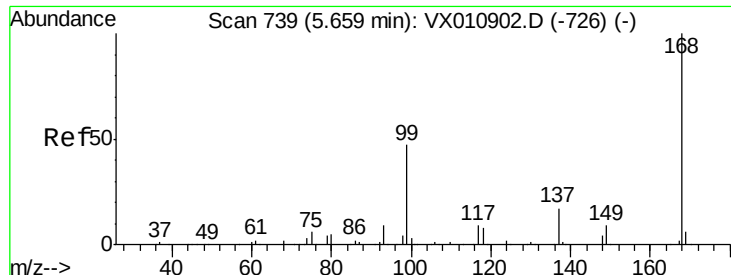
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 02:04:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
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: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

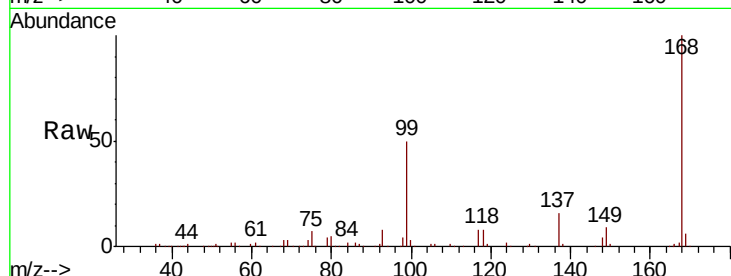
PB121723ZHE#04

Tot Ion:168 Resp: 198261

Ion Ratio Lower Upper

168 100

99 50.4 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

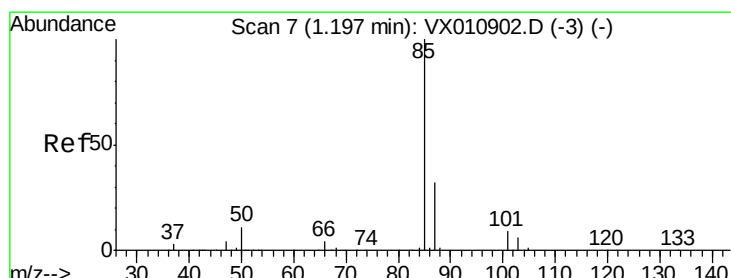
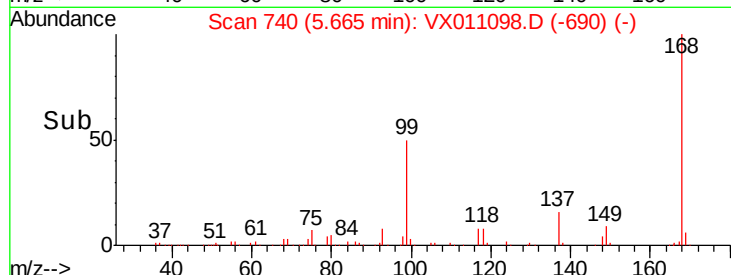
40000

20000

0

5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.558 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011098.D

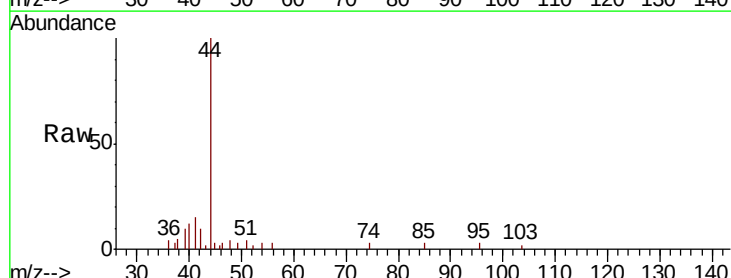
Acq: 26 Jul 2019 18:09

Tgt Ion: 85 Resp: 25

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

1.20

60

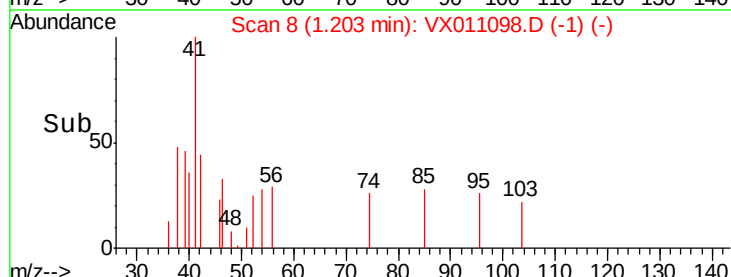
40

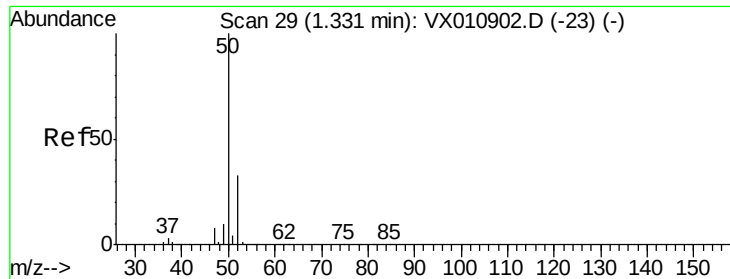
20

0

1.18 1.19 1.20 1.21 1.22

Time-->





#3

Chloromethane

Concen: 0.206 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

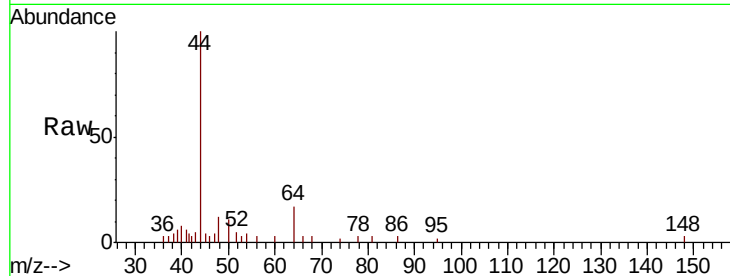
PB121723ZHE#04

Tot Ion: 50 Resp: 376

Ion Ratio Lower Upper

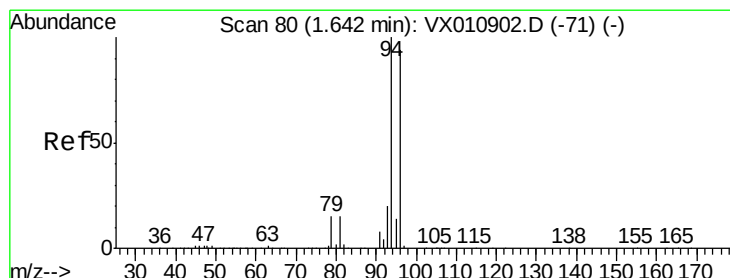
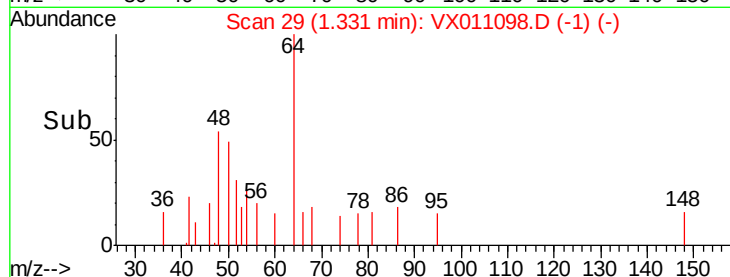
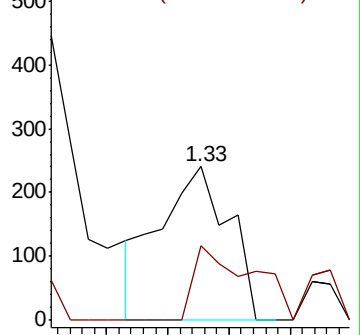
50 100

52 48.3 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.361 ug/l

RT: 1.67 min Scan# 85

Delta R.T. 0.03 min

Lab File: VX011098.D

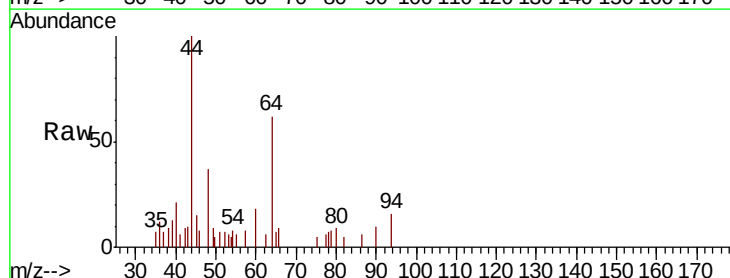
Acq: 26 Jul 2019 18:09

Tgt Ion: 94 Resp: 378

Ion Ratio Lower Upper

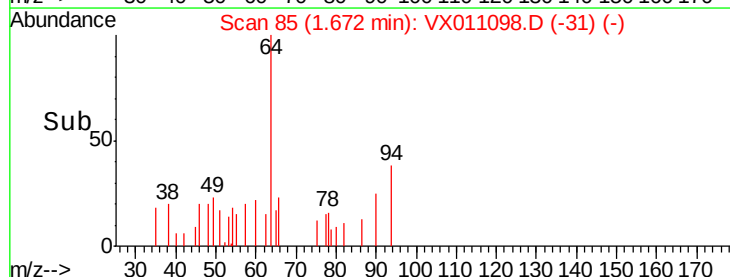
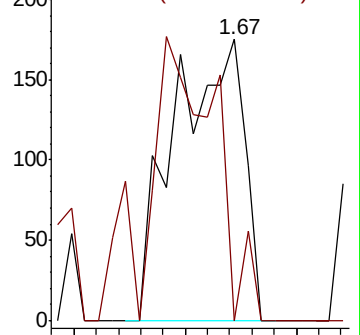
94 100

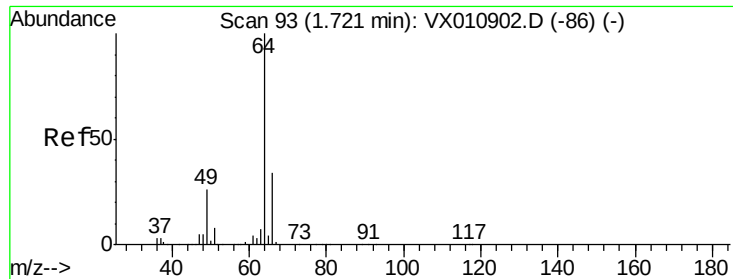
96 0.0 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.239 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

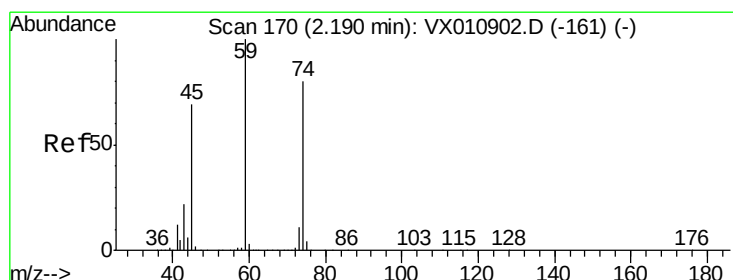
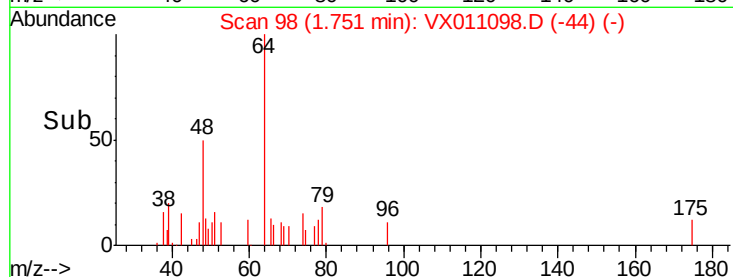
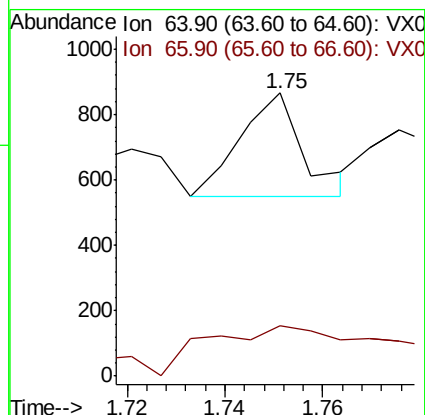
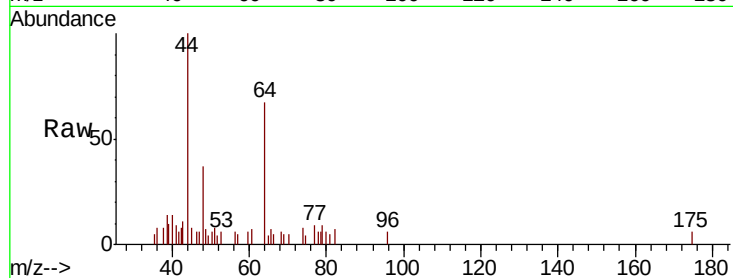
PB121723ZHE#04

Tot Ion: 64 Resp: 282

Ion Ratio Lower Upper

64 100

66 13.3 27.0 40.6#



#8

Diethyl Ether

Concen: 0.346 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX011098.D

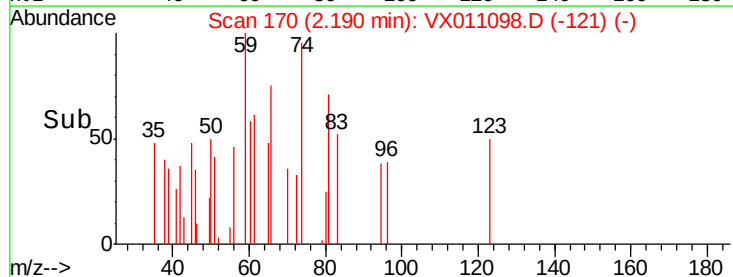
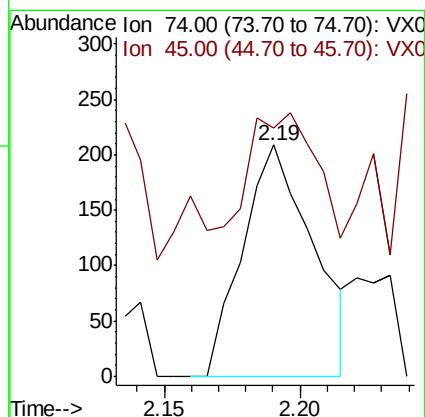
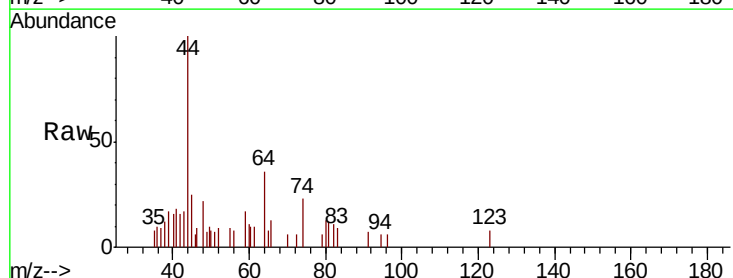
Acq: 26 Jul 2019 18:09

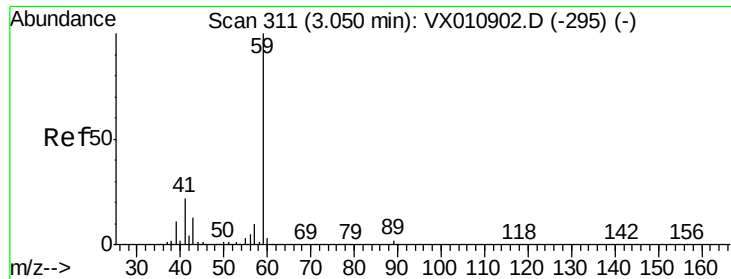
Tgt Ion: 74 Resp: 375

Ion Ratio Lower Upper

74 100

45 62.1 45.5 136.5





#11

Tert butyl alcohol

Concen: 1.050 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.00 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

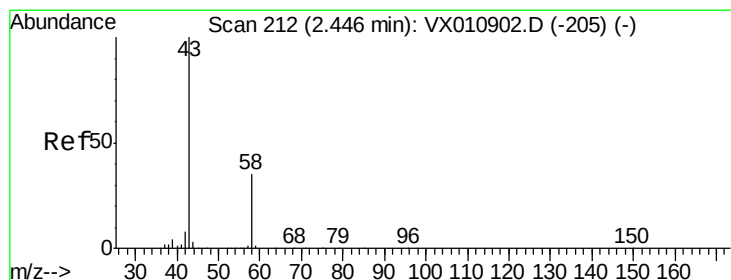
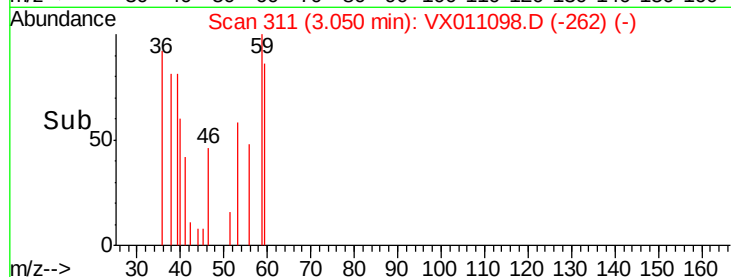
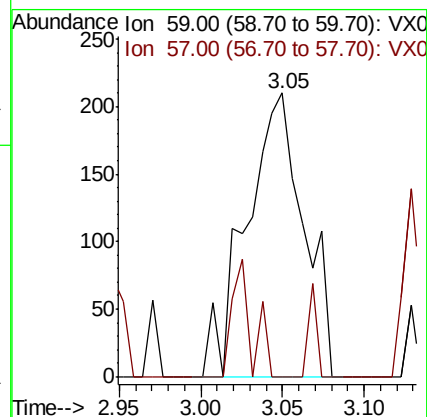
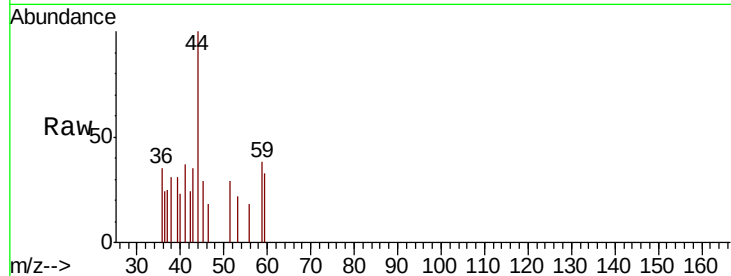
PB121723ZHE#04

Tot Ion: 59 Resp: 516

Ion Ratio Lower Upper

59 100

57 4.8 7.9 11.9#



#16

Acetone

Concen: 12.844 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011098.D

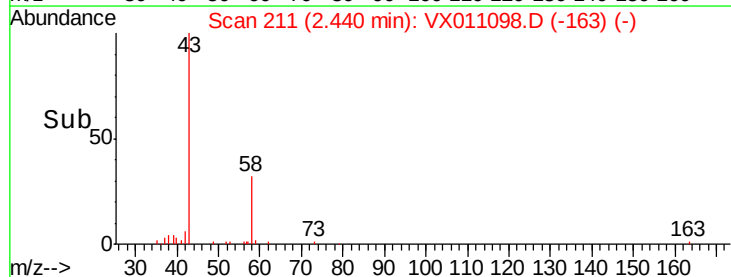
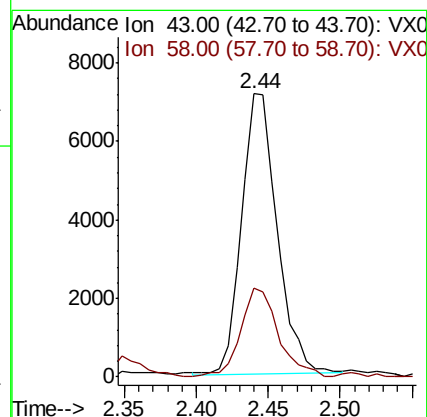
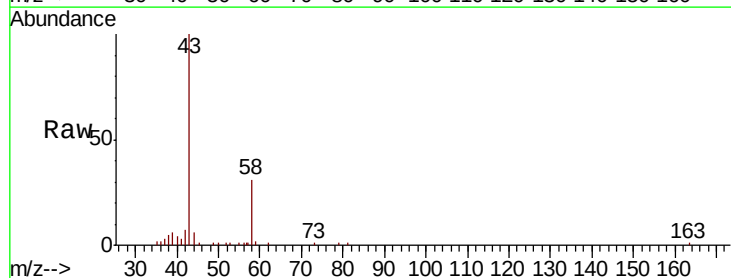
Acq: 26 Jul 2019 18:09

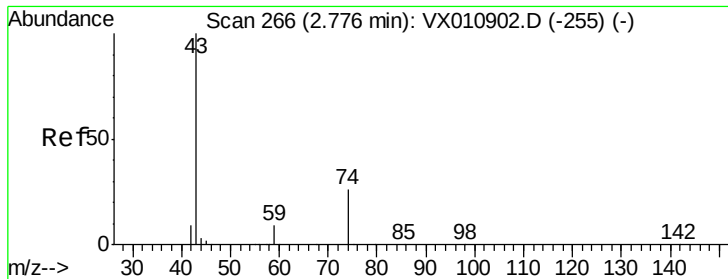
Tgt Ion: 43 Resp: 12235

Ion Ratio Lower Upper

43 100

58 32.0 27.7 41.5





#18

Methyl Acetate

Concen: 0.760 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

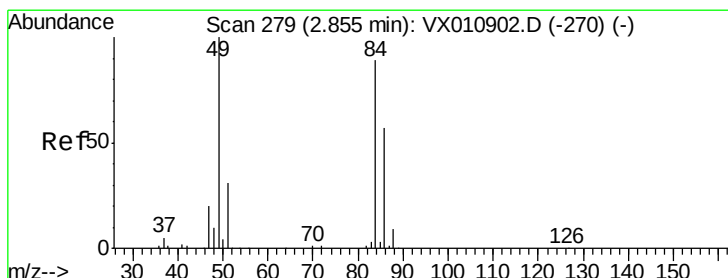
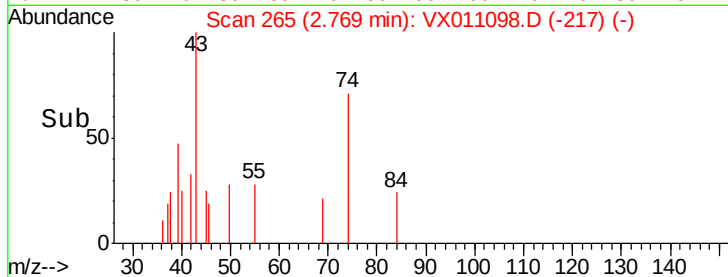
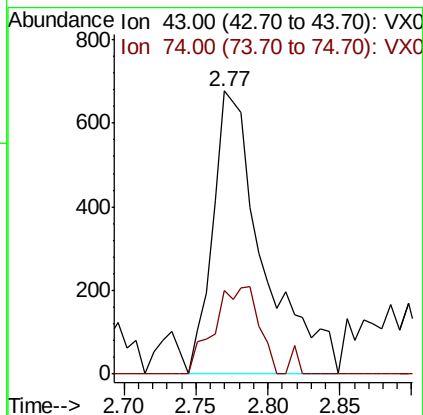
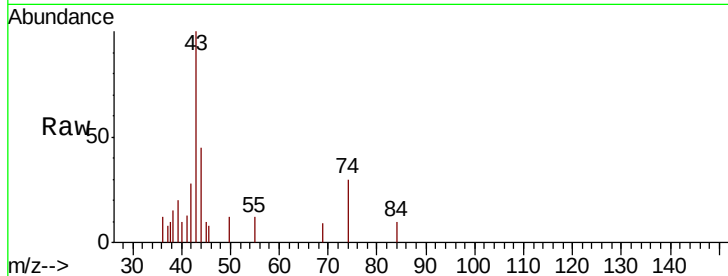
PB121723ZHE#04

Tot Ion: 43 Resp: 1648

Ion Ratio Lower Upper

43 100

74 27.6 21.5 32.3



#20

Methylene Chloride

Concen: 1.456 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Tgt Ion: 84 Resp: 2940

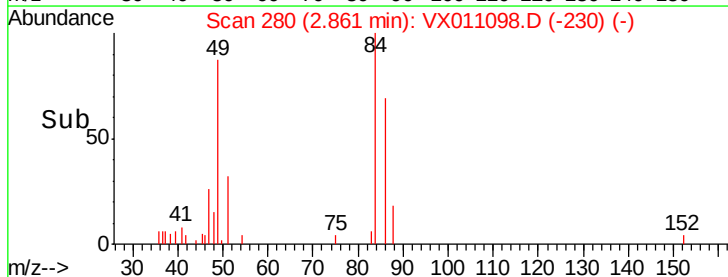
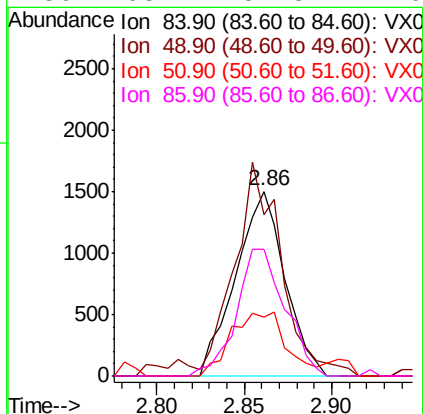
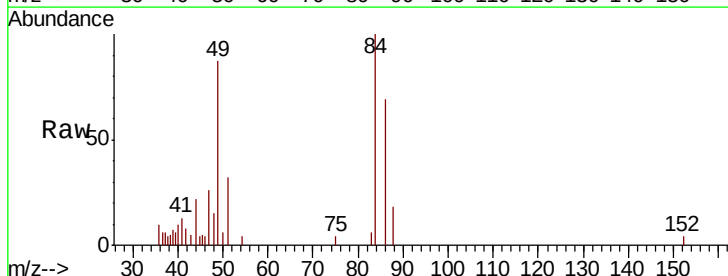
Ion Ratio Lower Upper

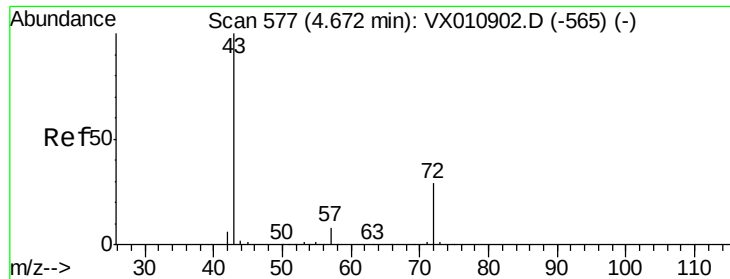
84 100

49 82.0 89.9 134.9#

51 31.7 27.8 41.6

86 68.7 51.8 77.6





#25

2-Butanone

Concen: 1.550 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

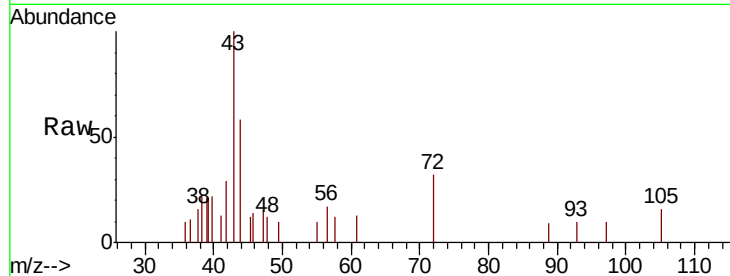
PB121723ZHE#04

Tot Ion: 43 Resp: 2119

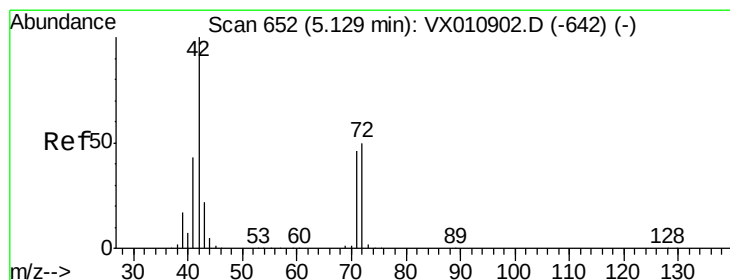
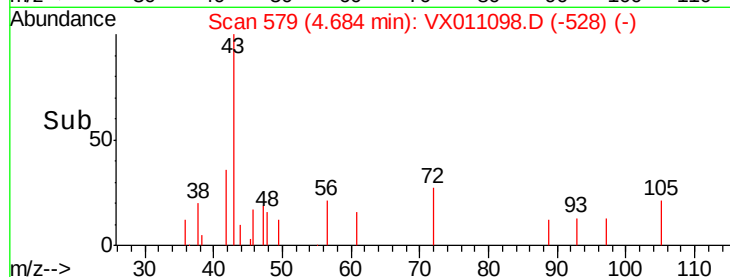
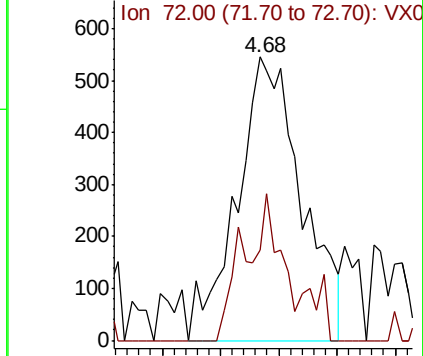
Ion Ratio Lower Upper

43 100

72 31.9 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.382 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

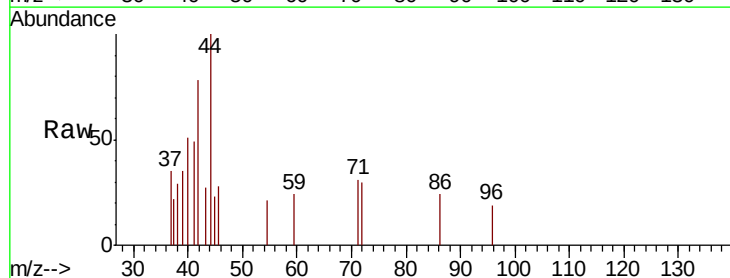
Tgt Ion: 42 Resp: 331

Ion Ratio Lower Upper

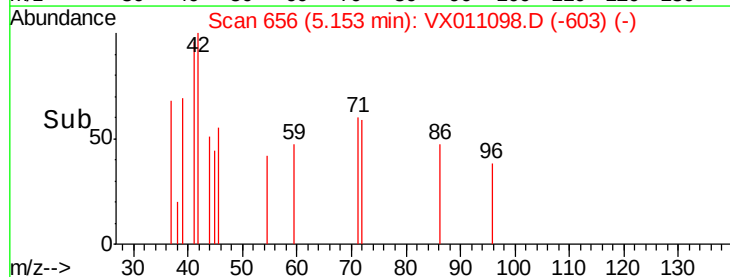
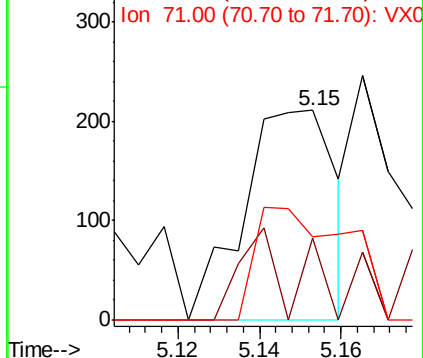
42 100

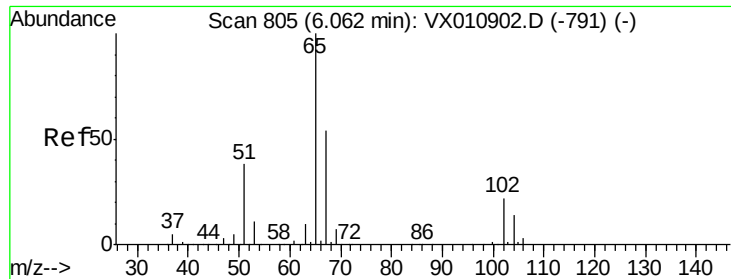
72 16.3 39.8 59.8#

71 53.5 37.0 55.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

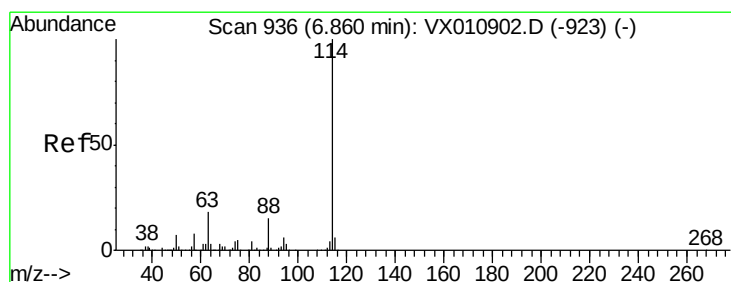
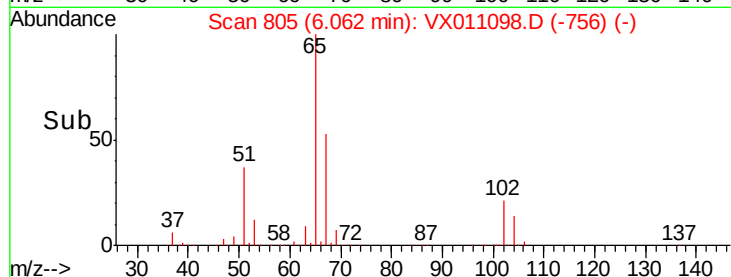
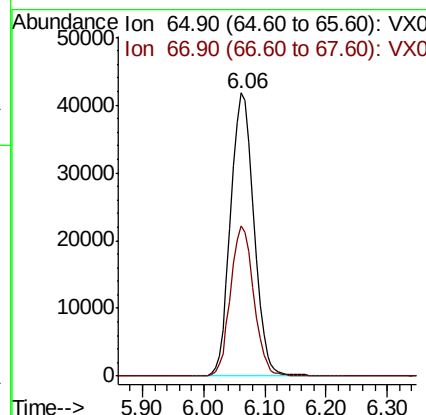
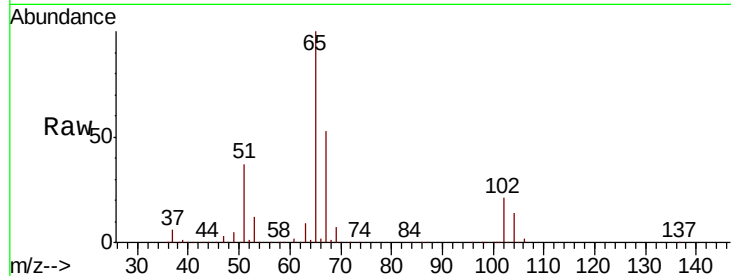




#33
 1,2-Dichloroethane-d4
 Concen: 52.233 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

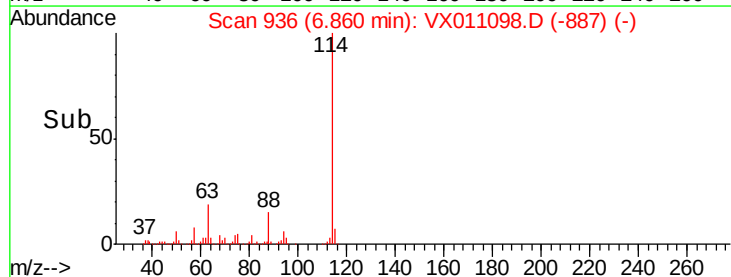
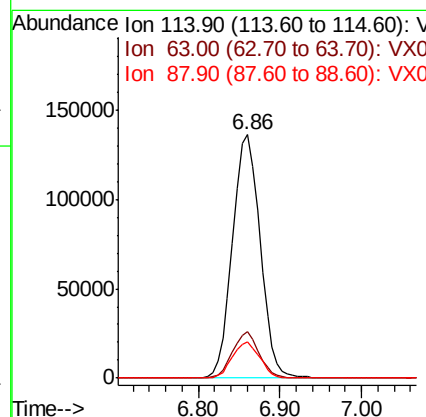
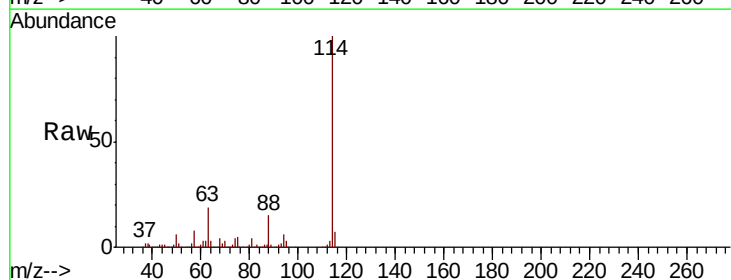
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#04

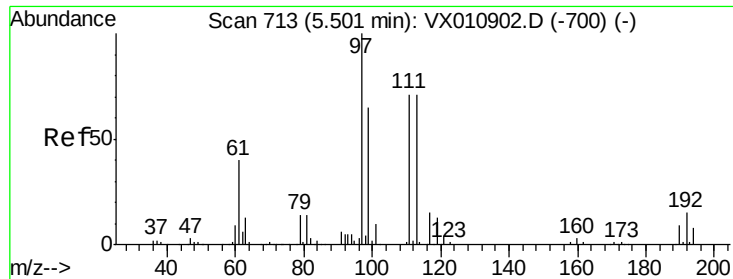
Tot Ion: 65 Resp: 110170
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

Tgt Ion: 114 Resp: 320255
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 35.6
 88 14.7 0.0 29.8

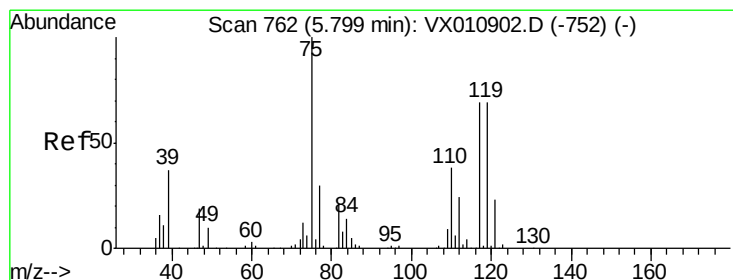
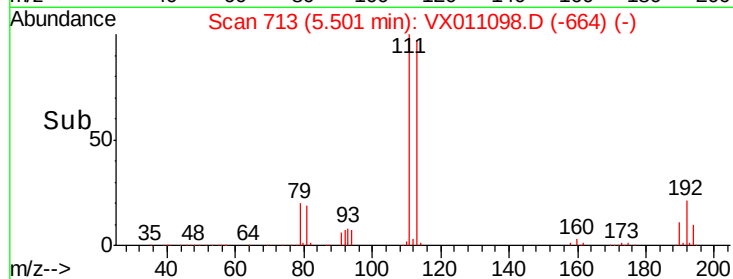
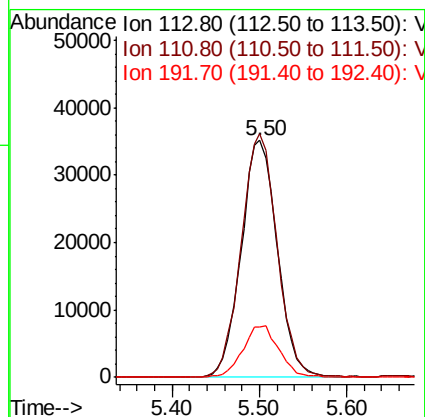
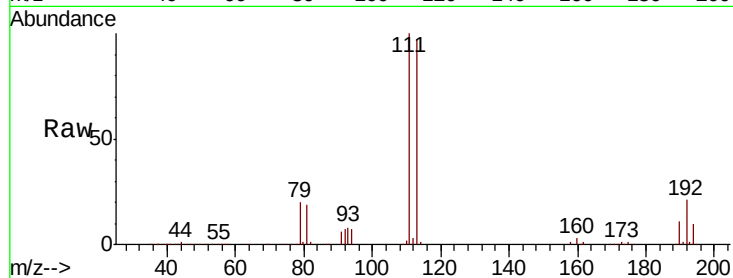




#35
 Dibromofluoromethane
 Concen: 49.669 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

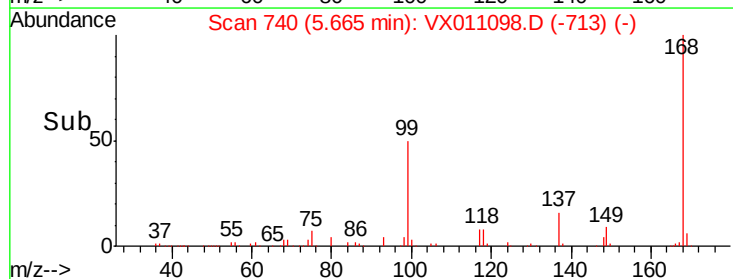
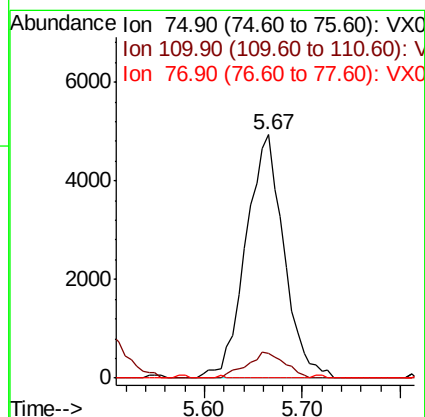
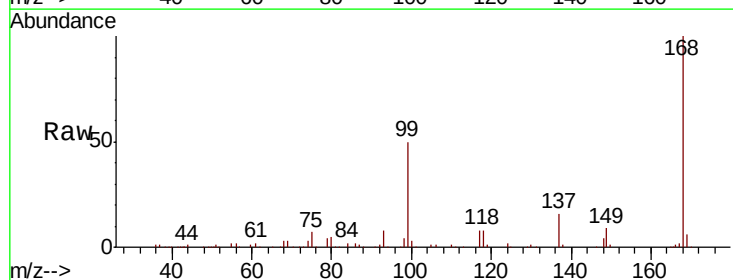
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#04

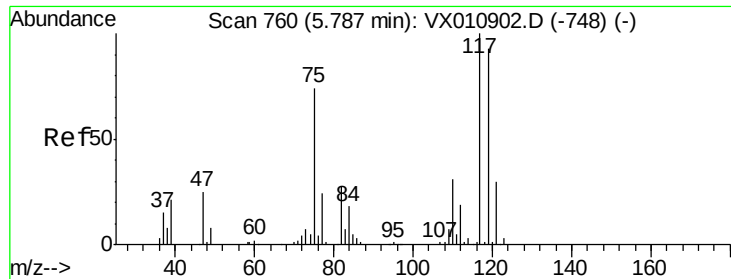
Tot Ion:113 Resp: 100964
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.3 123.5
 192 21.6 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.075 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

Tgt Ion: 75 Resp: 13349
 Ion Ratio Lower Upper
 75 100
 110 10.6 19.9 59.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.895 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#04

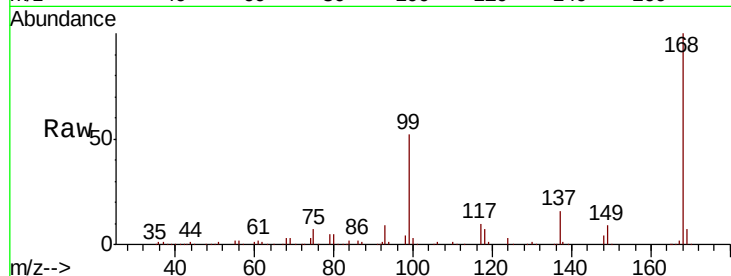
Tot Ion:117 Resp: 18901

Ion Ratio Lower Upper

117 100

119 5.8 74.2 111.2#

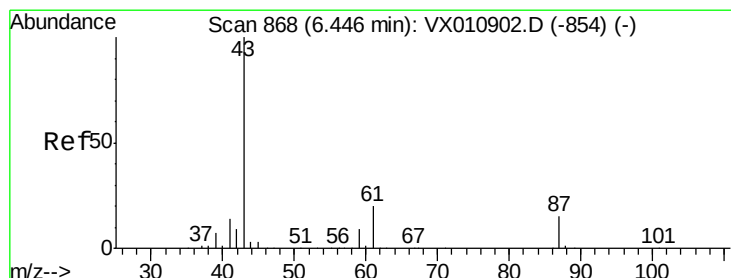
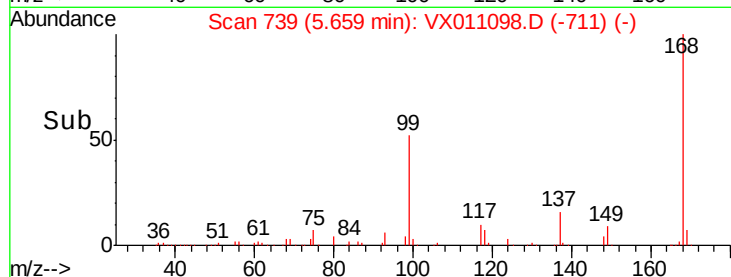
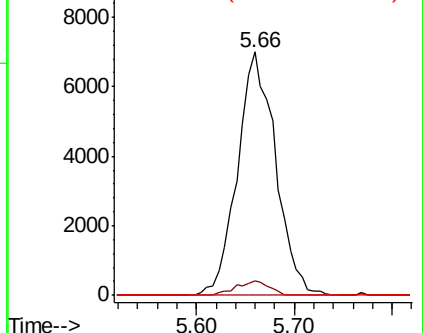
121 0.0 24.2 36.2#



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: 2.701 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

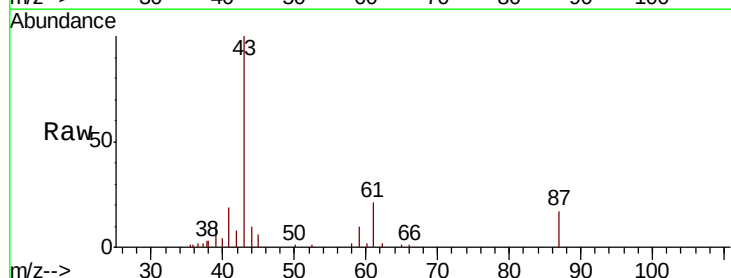
Tgt Ion: 43 Resp: 11964

Ion Ratio Lower Upper

43 100

61 23.7 17.1 25.7

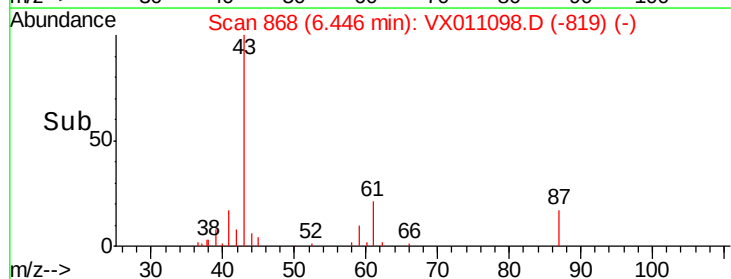
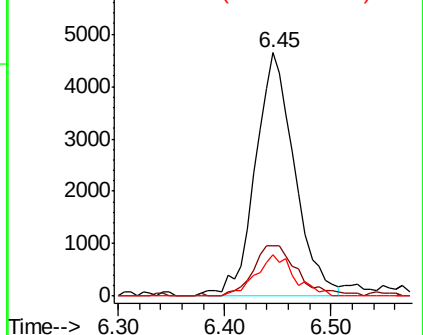
87 16.7 12.0 18.0

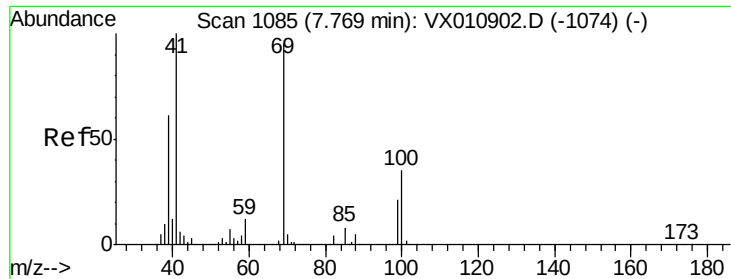


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.318 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#04

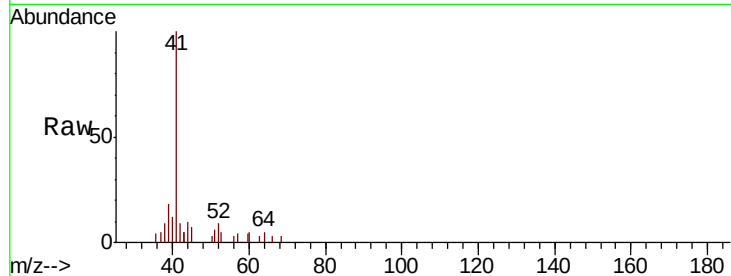
Tot Ion: 41 Resp: 5002

Ion Ratio Lower Upper

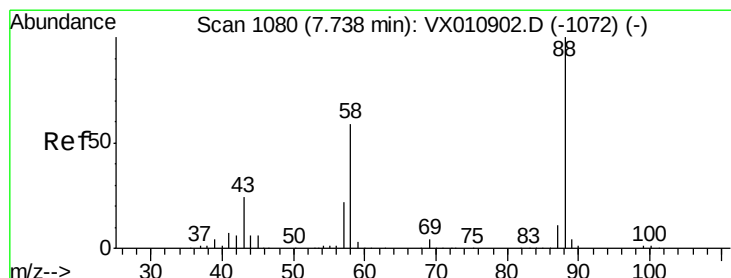
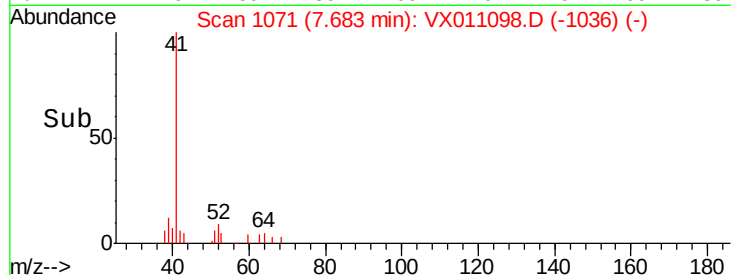
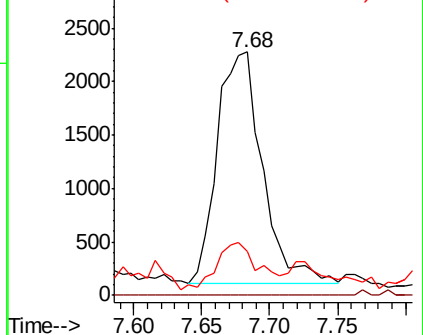
41 100

69 0.0 74.4 111.6#

39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 0.414 ug/l

RT: 7.70 min Scan# 1074

Delta R.T. -0.04 min

Lab File: VX011098.D

Acq: 26 Jul 2019 18:09

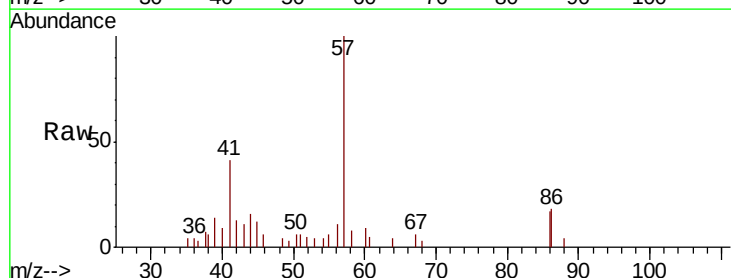
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

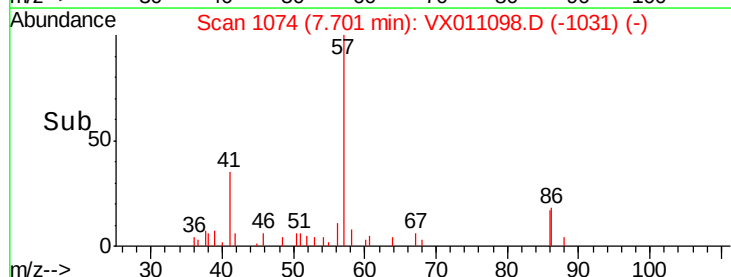
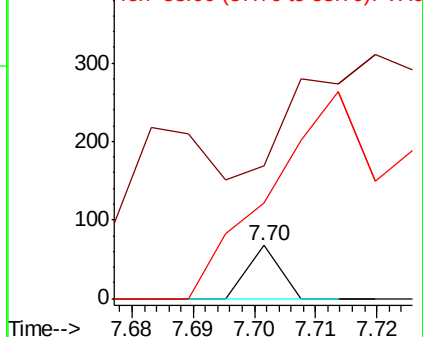
88 100

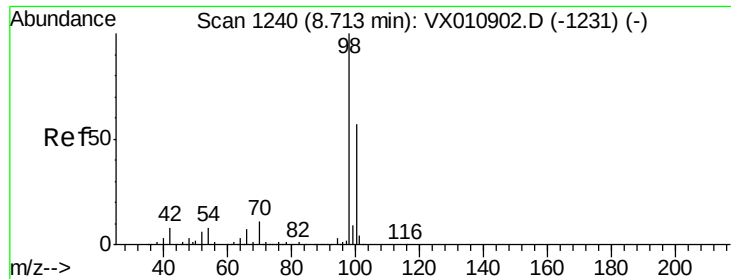
43 0.0 22.9 34.3#

58 2480.0 49.8 74.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

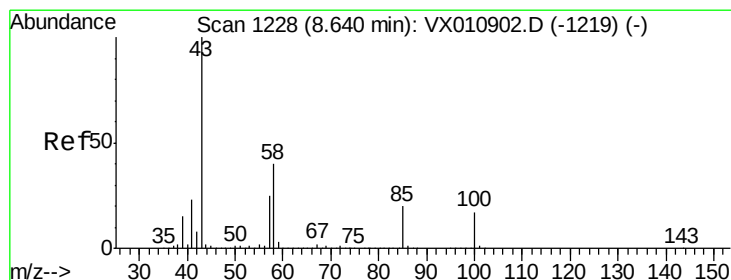
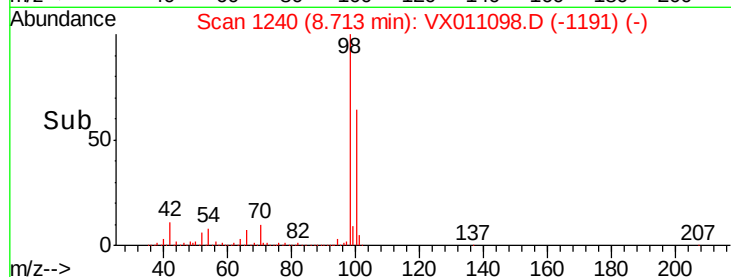
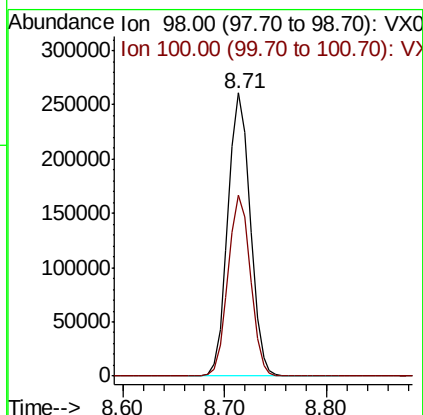
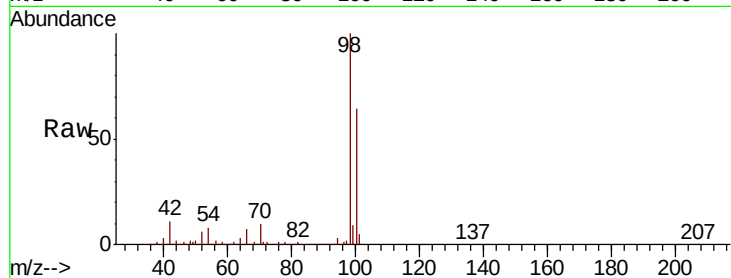




#50
Toluene-d8
Concen: 51.962 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

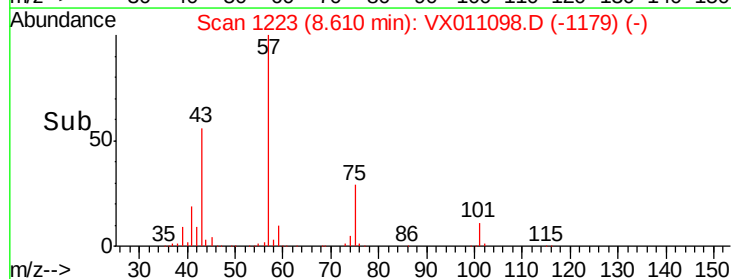
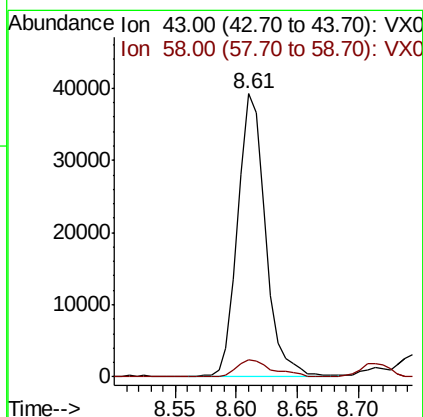
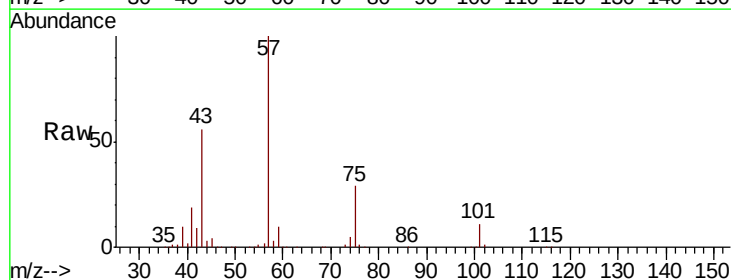
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#04

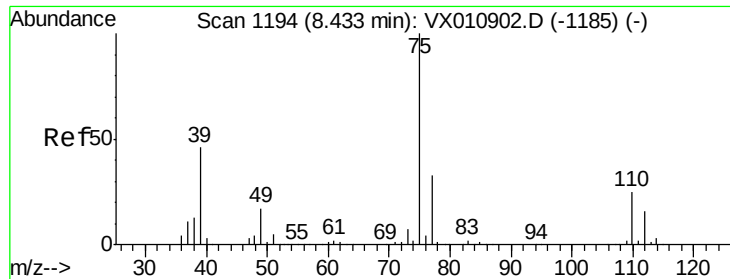
Tot Ion: 98 Resp: 396158
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 21.310 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

Tgt Ion: 43 Resp: 61185
Ion Ratio Lower Upper
43 100
58 7.9 32.2 48.4#



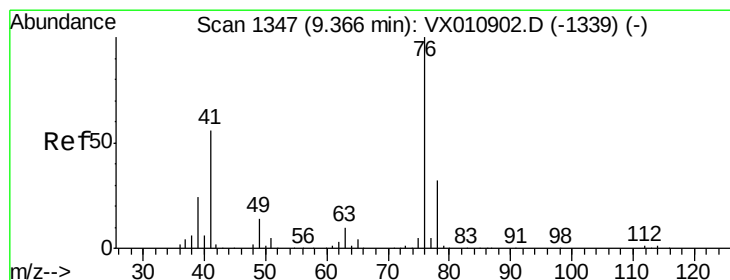
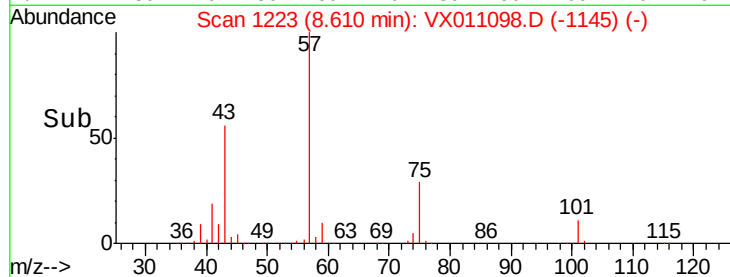
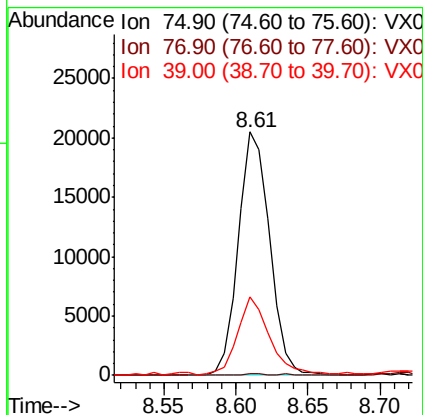
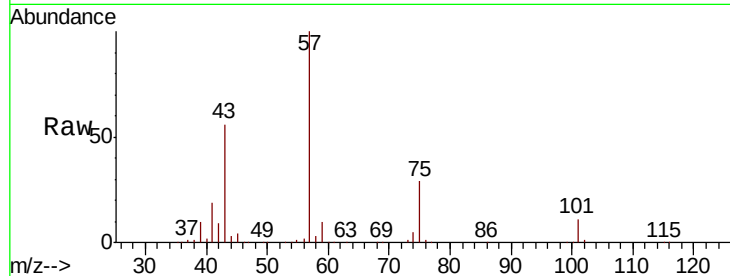


#54

cis-1,3-Dichloropropene
 Concen: 9.925 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#04

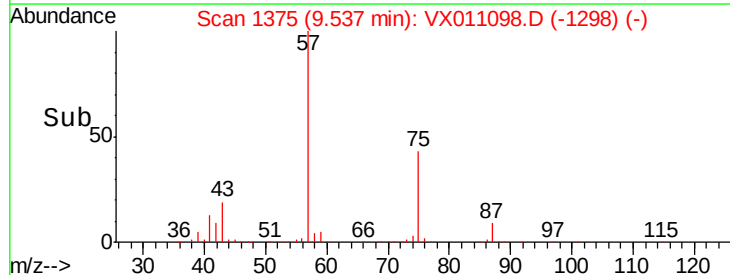
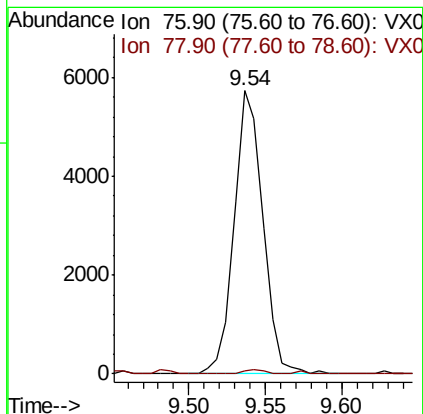
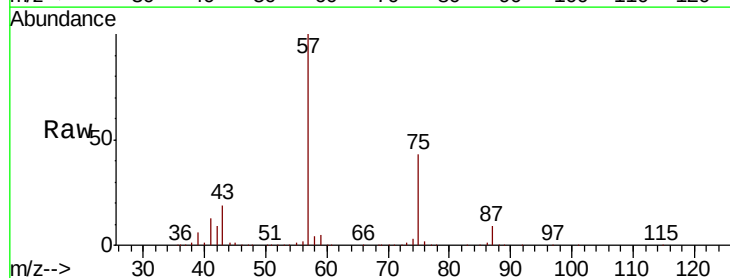
Tot Ion: 75 Resp: 30980
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 31.8 36.6 54.8#

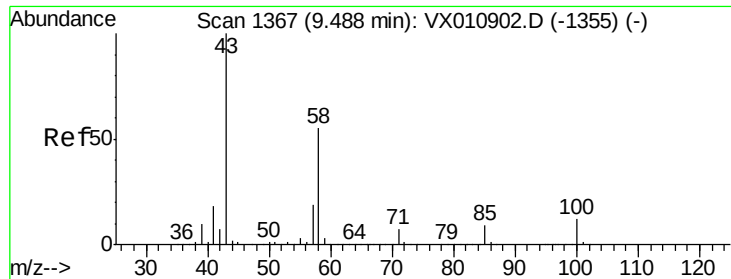


#57

1,3-Dichloropropane
 Concen: 2.156 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

Tgt Ion: 76 Resp: 7456
 Ion Ratio Lower Upper
 76 100
 78 1.0 25.6 38.4#

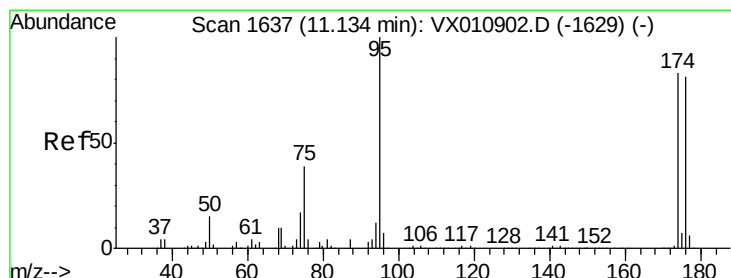
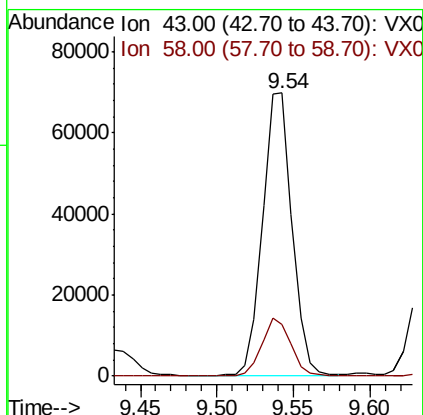
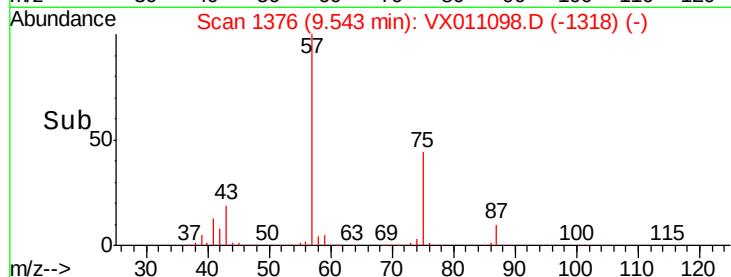
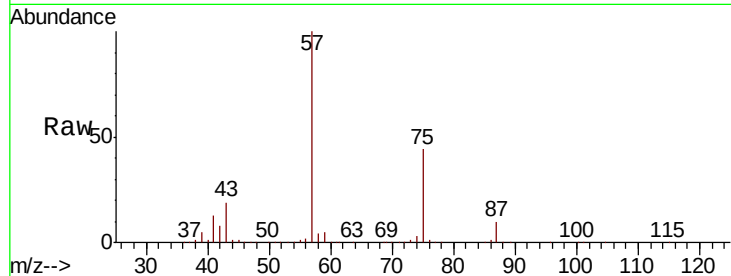




#59
2-Hexanone
Concen: 42.110 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

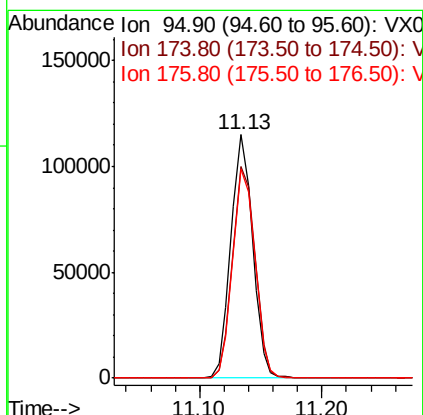
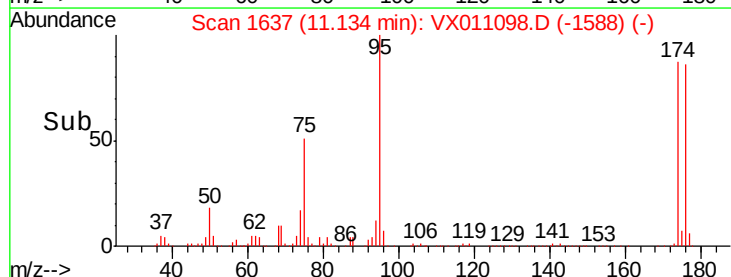
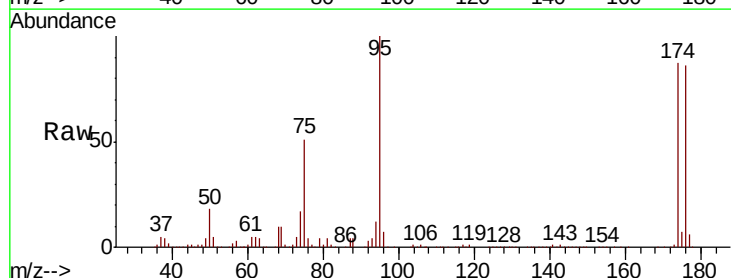
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#04

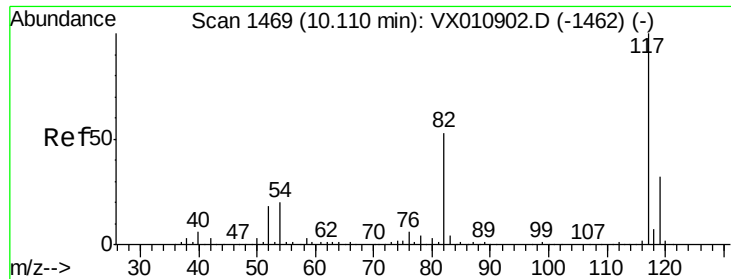
Tot Ion: 43 Resp: 93776
Ion Ratio Lower Upper
43 100
58 20.9 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 50.418 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

Tgt Ion: 95 Resp: 141289
Ion Ratio Lower Upper
95 100
174 90.3 0.0 180.6
176 88.4 0.0 173.8

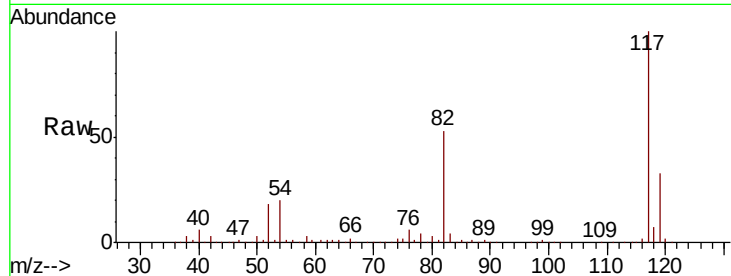




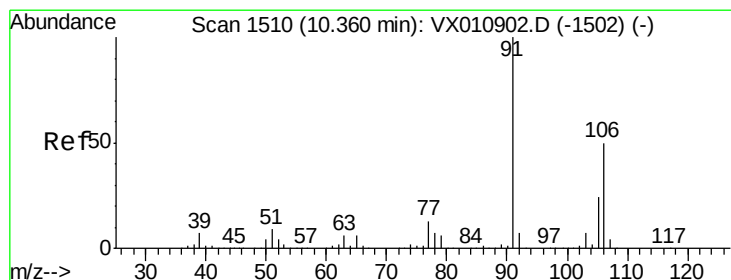
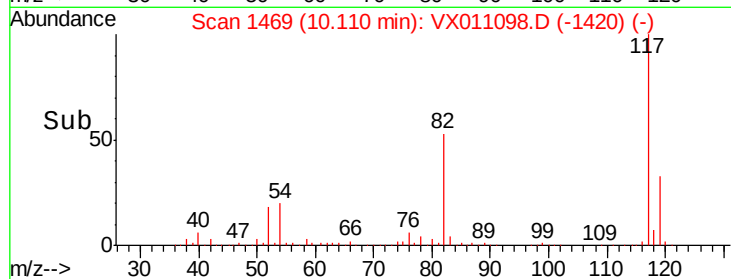
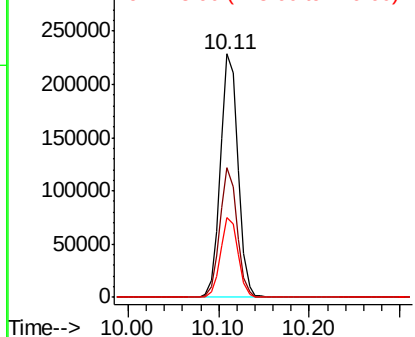
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#04

Tot Ion:117 Resp: 310244
Ion Ratio Lower Upper
117 100
82 53.3 42.6 63.8
119 32.6 25.9 38.9

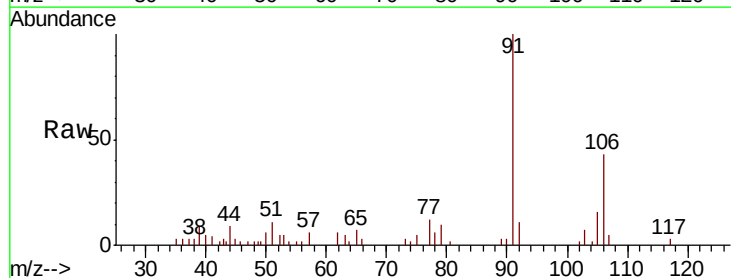


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

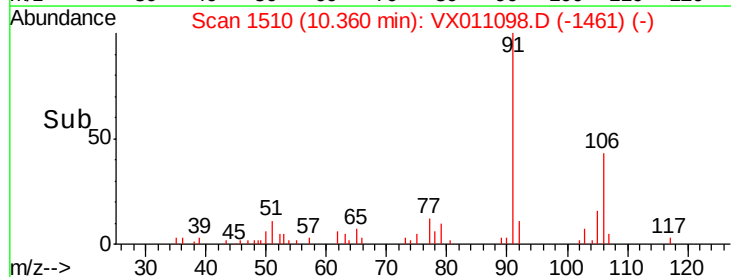
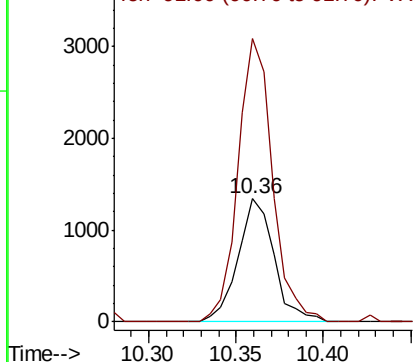


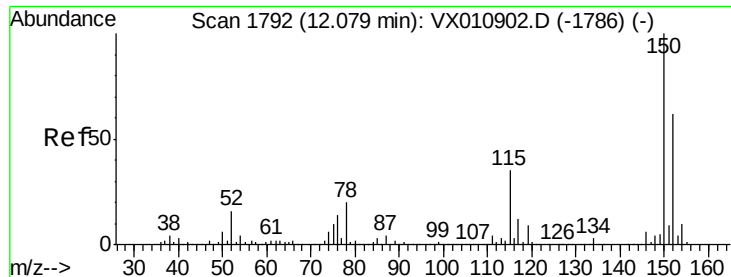
#68
m/p-Xylenes
Concen: 0.464 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

Tgt Ion:106 Resp: 1929
Ion Ratio Lower Upper
106 100
91 219.2 160.1 240.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0



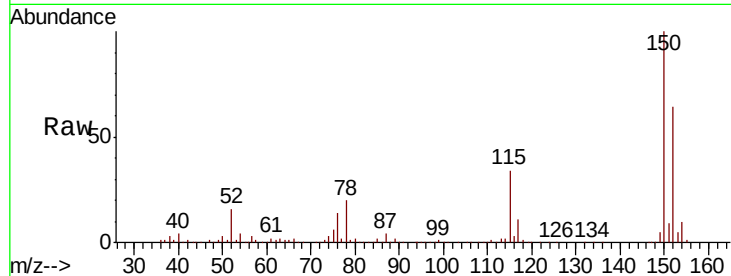


#72

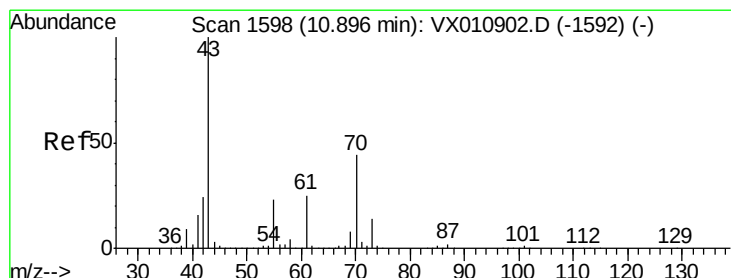
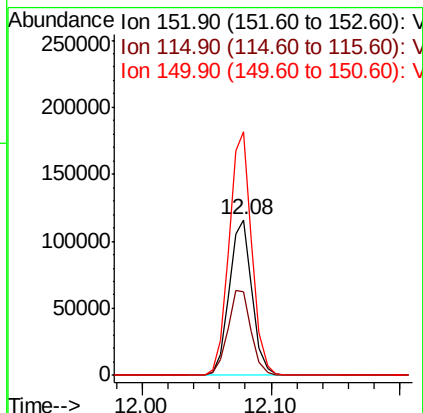
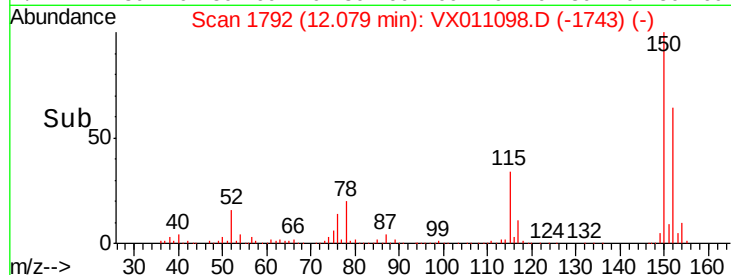
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#04

Tot Ion:152 Resp: 143445
Ion Ratio Lower Upper
152 100
115 56.0 39.7 119.1
150 156.6 0.0 345.6



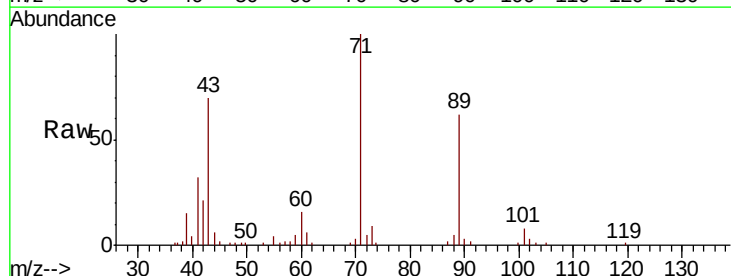
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



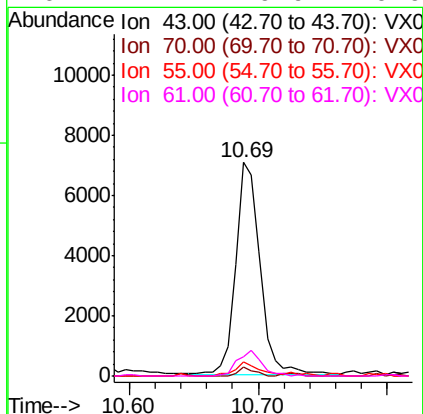
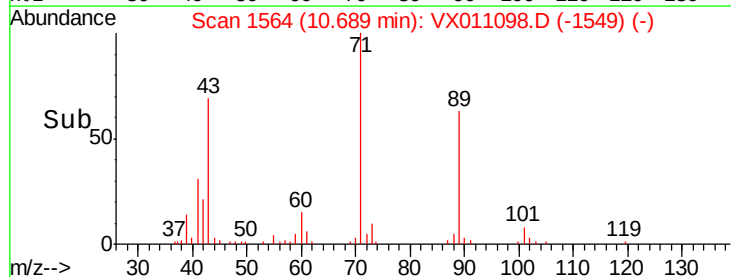
#74

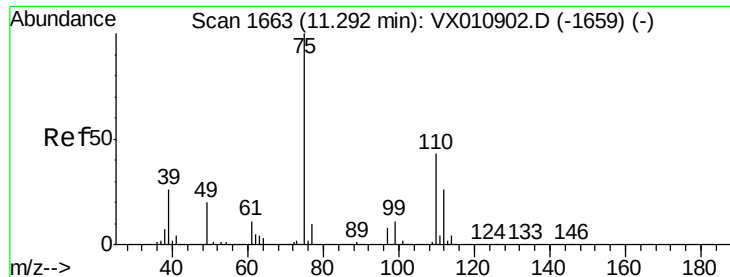
N-ethyl acetate
Concen: 2.496 ug/l
RT: 10.69 min Scan# 1564
Delta R.T. -0.21 min
Lab File: VX011098.D
Acq: 26 Jul 2019 18:09

Tgt Ion: 43 Resp: 9245
Ion Ratio Lower Upper
43 100
70 2.6 34.7 52.1#
55 6.6 19.1 28.7#
61 12.2 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0

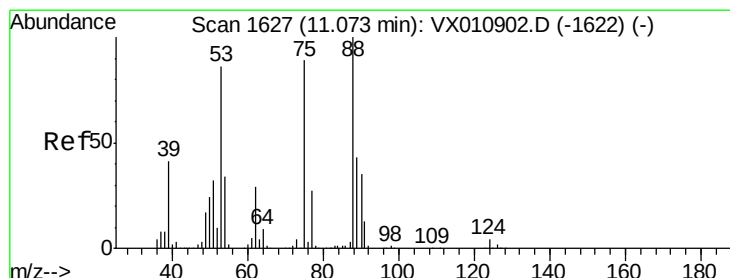
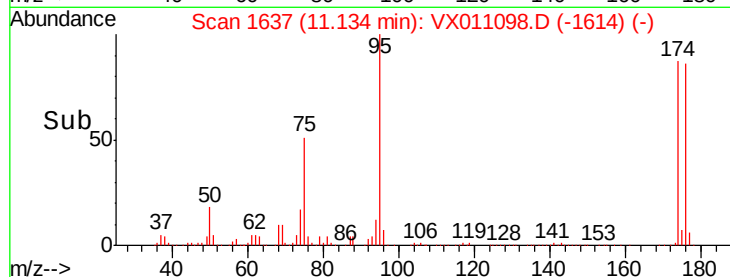
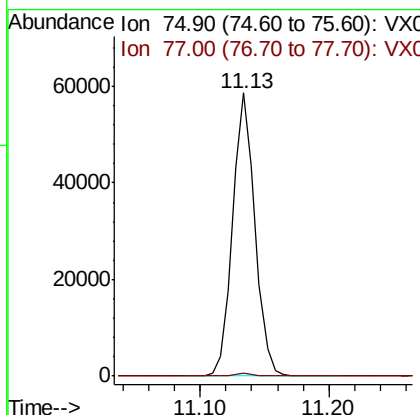
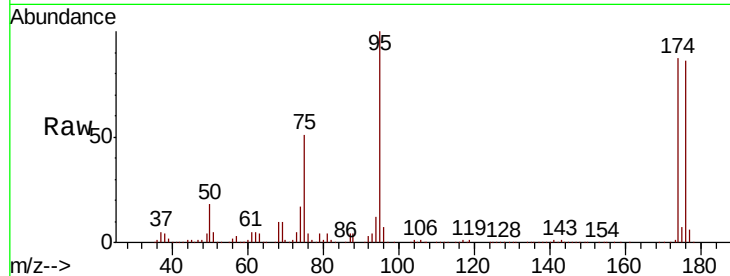




#76
 1,2,3-Trichloropropane
 Concen: 27.531 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#04

Tot Ion: 75 Resp: 71264
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.178 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011098.D
 Acq: 26 Jul 2019 18:09

Tgt Ion: 75 Resp: 71264
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.7 115.1#
 89 0.0 38.5 57.7#

