

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101819\
 Data File : VX013138.D
 Acq On : 18 Oct 2019 19:27
 Operator : JC/SP
 Sample : K5451-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW0542

Quant Time: Oct 18 23:59:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	162733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	259398	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	213150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	79413	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	99429	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
35) Dibromofluoromethane	5.49	113	77280	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
50) Toluene-d8	8.71	98	298295	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	11.14	95	95203	42.20	ug/l	0.00
Spiked Amount			Recovery	=	84.40%	

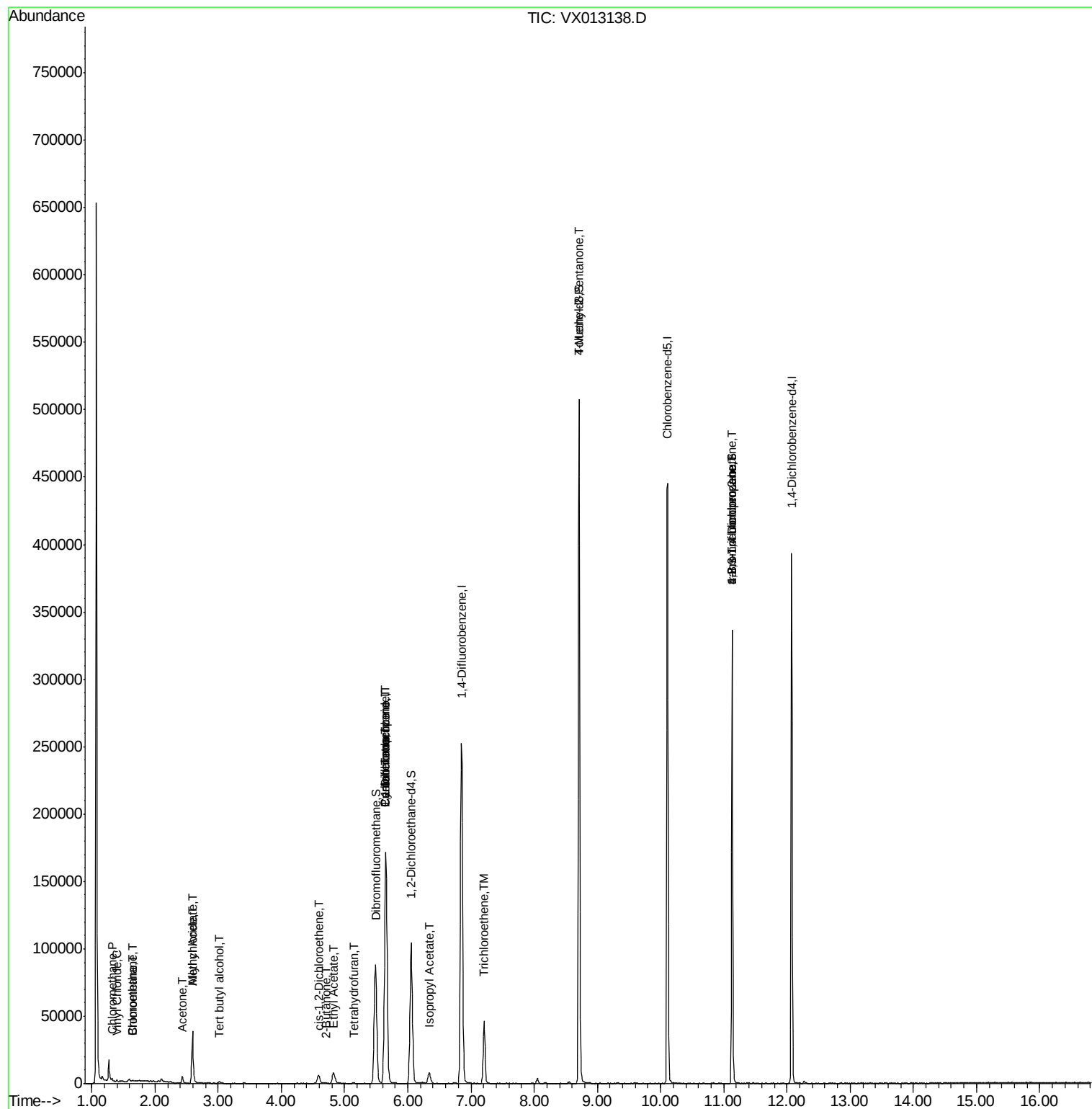
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	998	0.553	ug/l	93
4) Vinyl Chloride	1.40	62	520	0.279	ug/l #	83
5) Bromomethane	1.65	94	221	0.285	ug/l #	61
6) Chloroethane	1.65	64	356	0.678	ug/l #	43
11) Tert butyl alcohol	3.01	59	1534	2.845	ug/l #	76
14) Allyl chloride	2.59	41	3956	1.351	ug/l #	64
16) Acetone	2.43	43	5248	4.895	ug/l	94
18) Methyl Acetate	2.59	43	10140	3.990	ug/l #	51
25) 2-Butanone	4.71	43	486	0.327	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	4080	2.008	ug/l	90
29) Tetrahydrofuran	5.14	42	395	0.432	ug/l #	62
31) Cyclohexane	5.65	56	3121	1.057	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12441	5.455	ug/l #	49
37) Ethyl Acetate	4.82	43	14547	5.704	ug/l	99
38) Carbon Tetrachloride	5.65	117	16417	7.396	ug/l #	17
43) Isopropyl Acetate	6.33	43	2169	0.530	ug/l #	60
44) Trichloroethene	7.21	130	18305	9.800	ug/l	97
51) 4-Methyl-2-Pentanone	8.71	43	1296	0.508	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	47562	27.003	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	47562	67.849	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

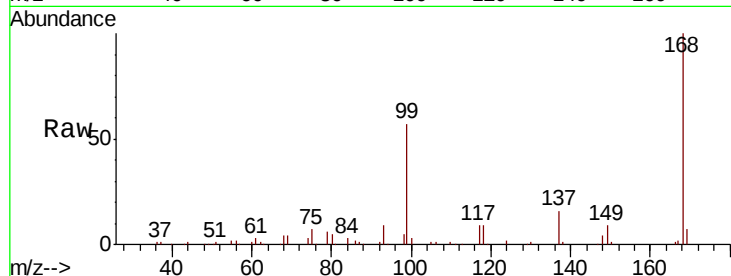
FA19-JMW0542

Tot Ion:168 Resp: 162733

Ion Ratio Lower Upper

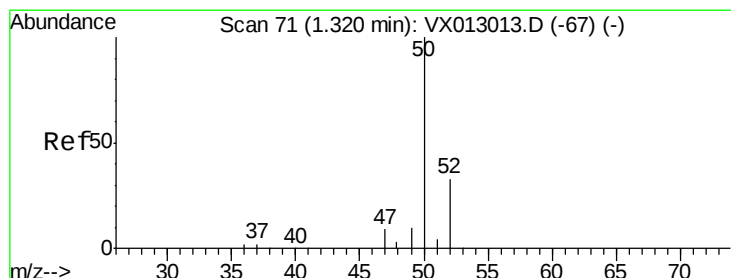
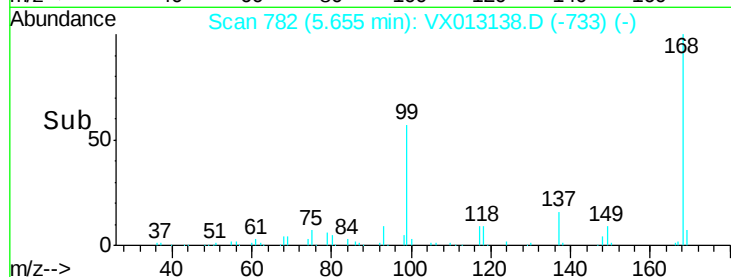
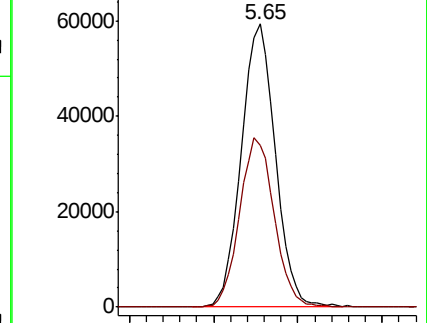
168 100

99 57.0 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.553 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013138.D

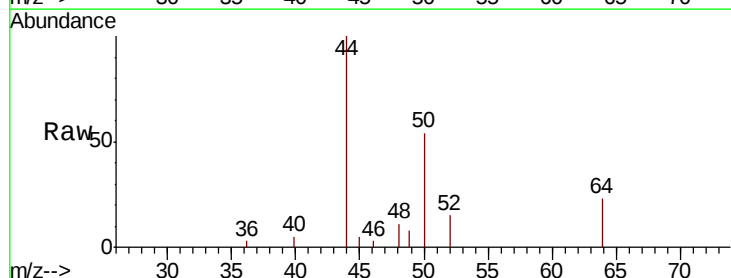
Acq: 18 Oct 2019 19:27

Tgt Ion: 50 Resp: 998

Ion Ratio Lower Upper

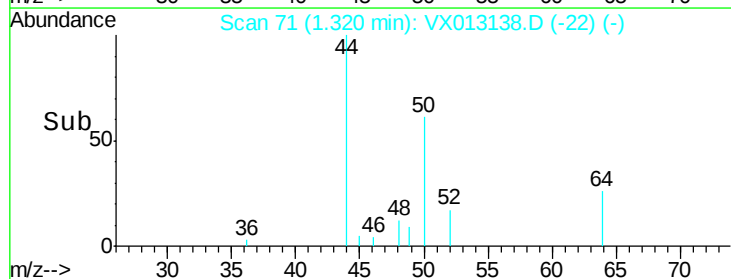
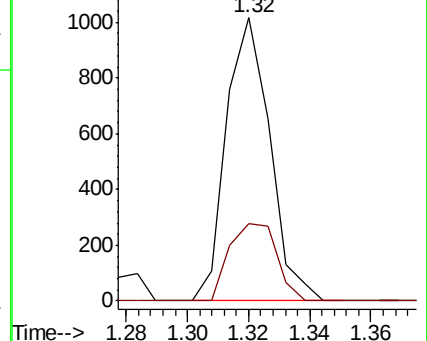
50 100

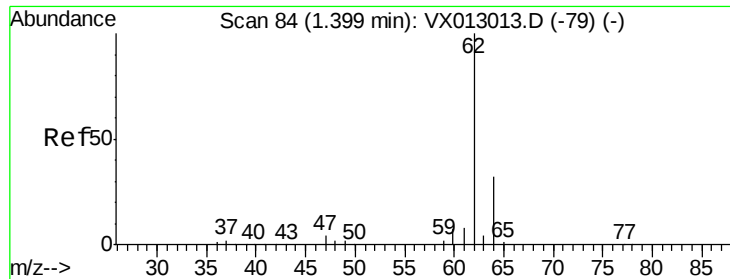
52 27.4 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.279 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

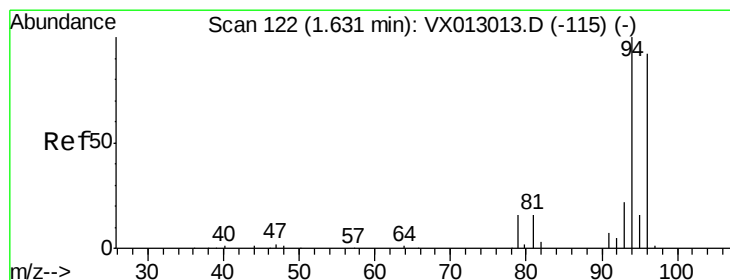
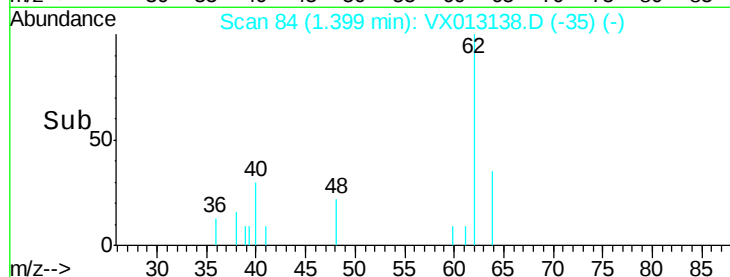
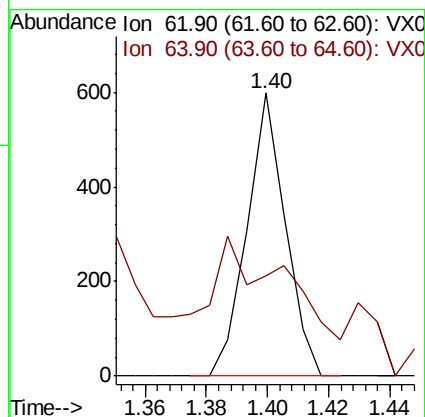
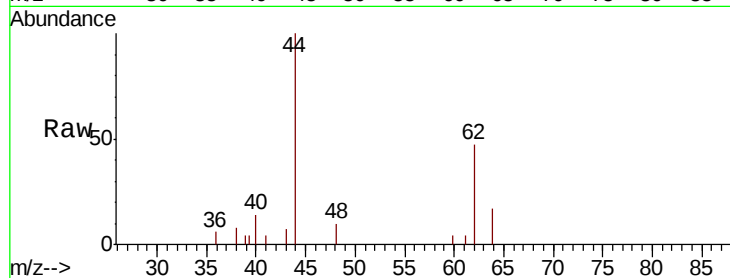
FA19-JMW0542

Tot Ion: 62 Resp: 520

Ion Ratio Lower Upper

62 100

64 22.4 25.3 37.9#



#5

Bromomethane

Concen: 0.285 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013138.D

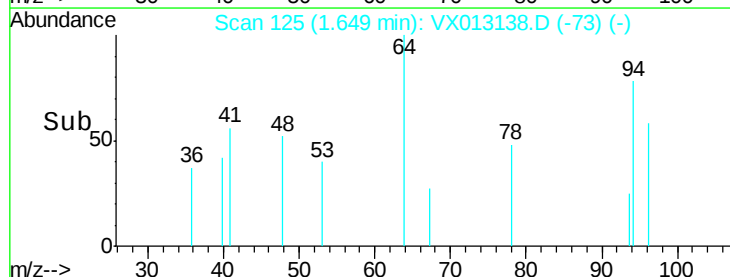
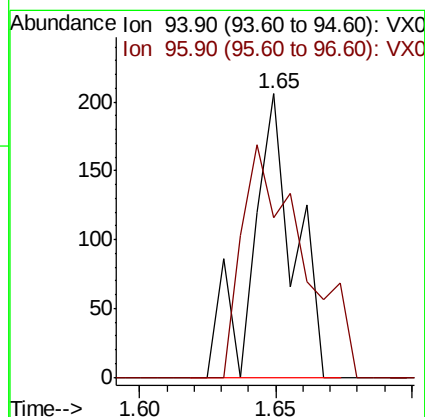
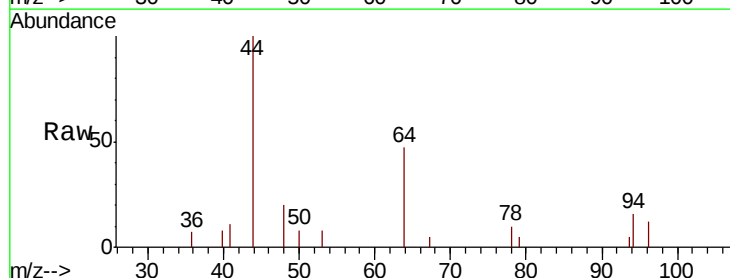
Acq: 18 Oct 2019 19:27

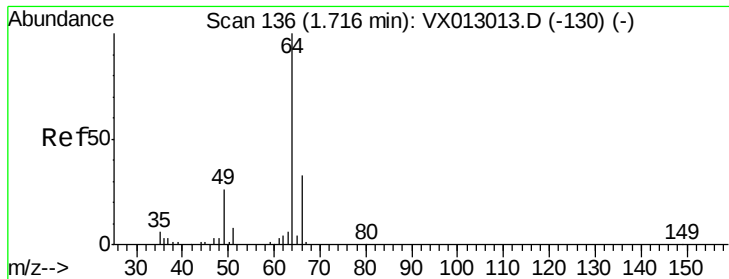
Tgt Ion: 94 Resp: 221

Ion Ratio Lower Upper

94 100

96 56.3 74.7 112.1#





#6

Chloroethane

Concen: 0.678 ug/l

RT: 1.65 min Scan# 125

Delta R.T. -0.06 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

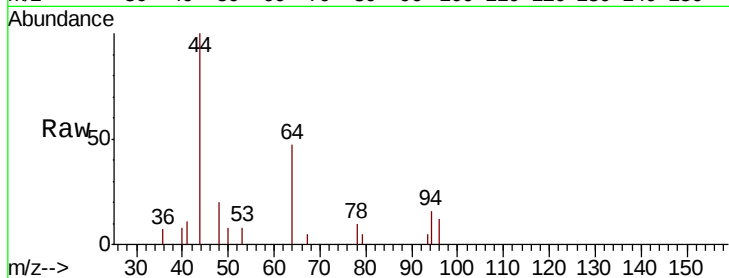
FA19-JMW0542

Tot Ion: 64 Resp: 356

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.65

400

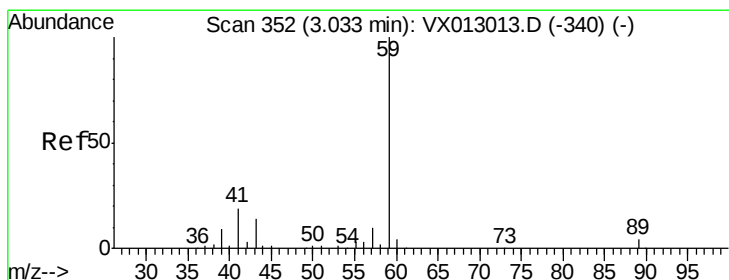
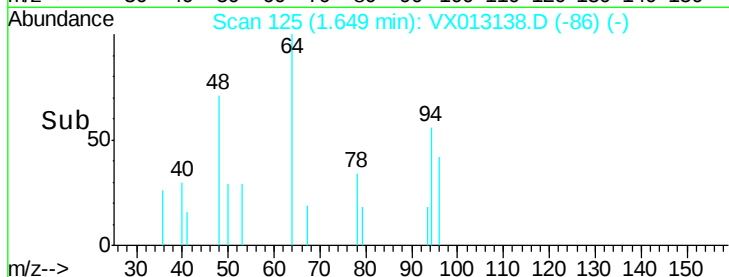
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 2.845 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013138.D

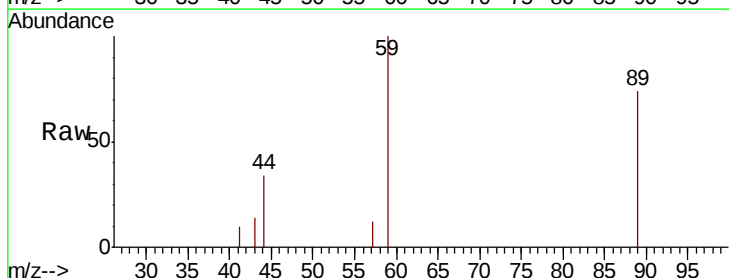
Acq: 18 Oct 2019 19:27

Tgt Ion: 59 Resp: 1534

Ion Ratio Lower Upper

59 100

57 1.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

600

500

400

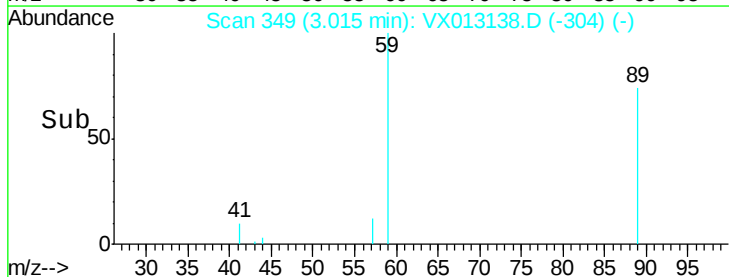
300

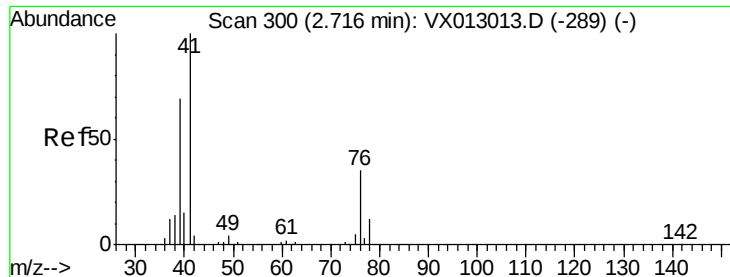
200

100

0

Time-->

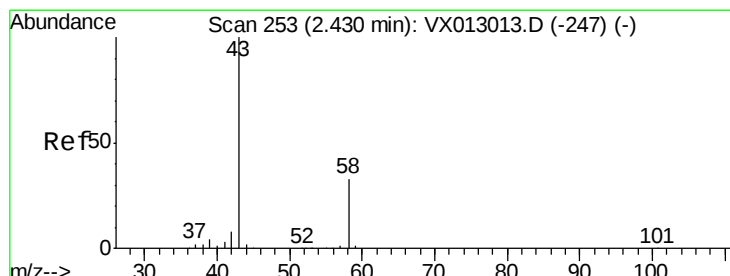
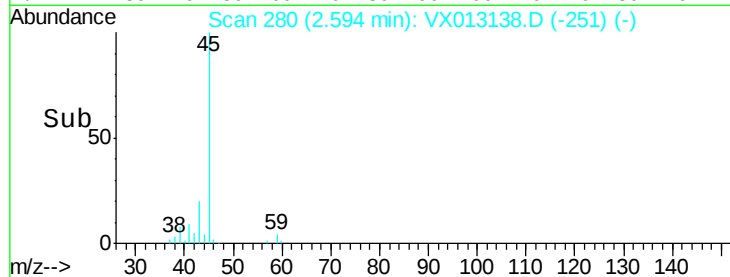
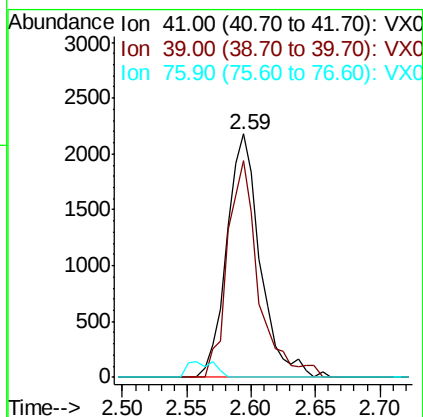
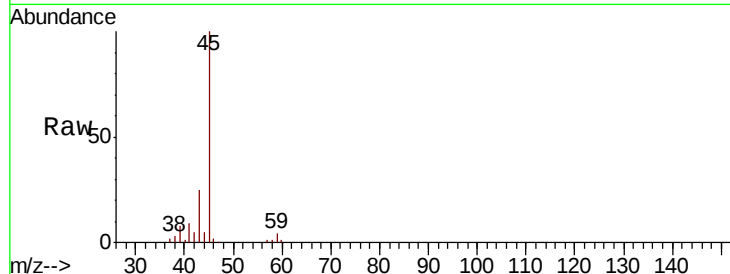




#14
Allvl chloride
Concen: 1.351 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.12 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

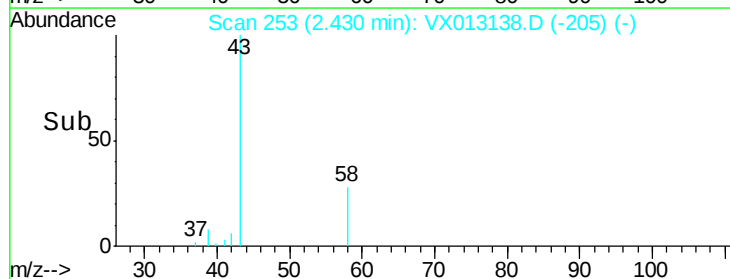
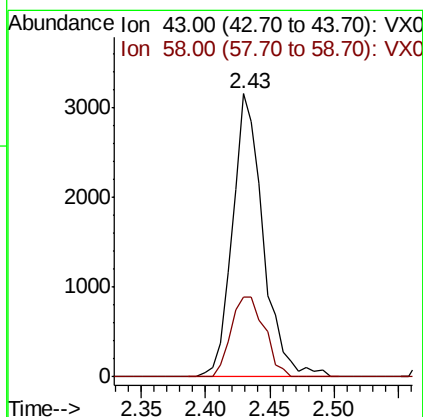
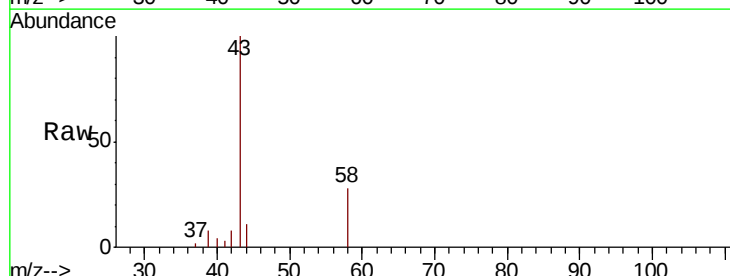
Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW0542

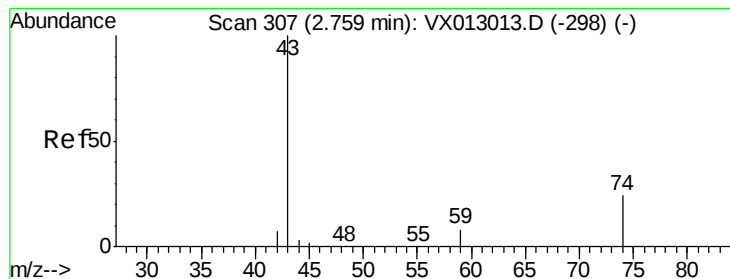
Tot Ion	Ratio	Lower	Upper
41	100		
39	83.1	51.0	76.6#
76	0.0	26.2	39.4#



#16
Acetone
Concen: 4.895 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.2	25.4	38.2





#18

Methvl Acetate

Concen: 3.990 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

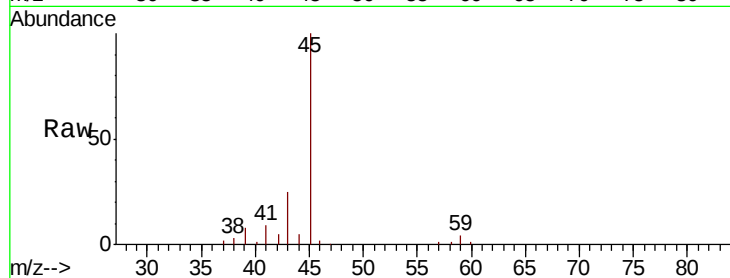
FA19-JMW0542

Tot Ion: 43 Resp: 10140

Ion Ratio Lower Upper

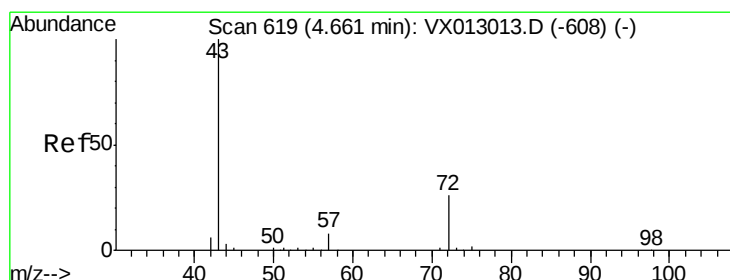
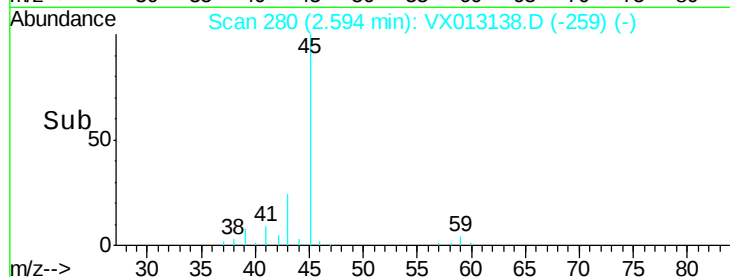
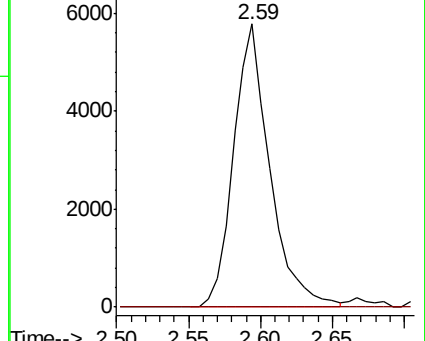
43 100

74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#25

2-Butanone

Concen: 0.327 ug/l

RT: 4.71 min Scan# 627

Delta R.T. 0.05 min

Lab File: VX013138.D

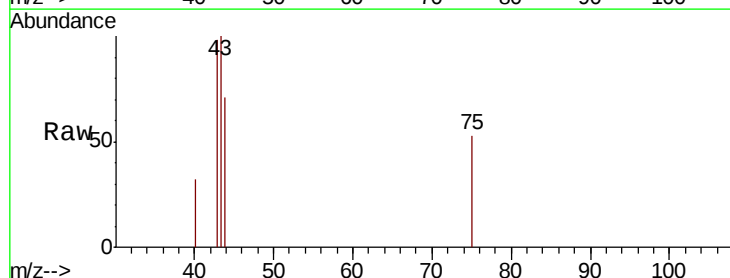
Acq: 18 Oct 2019 19:27

Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

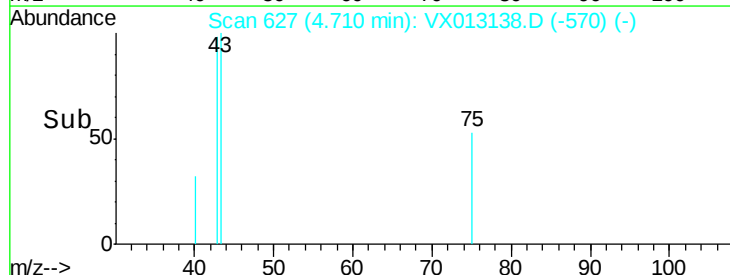
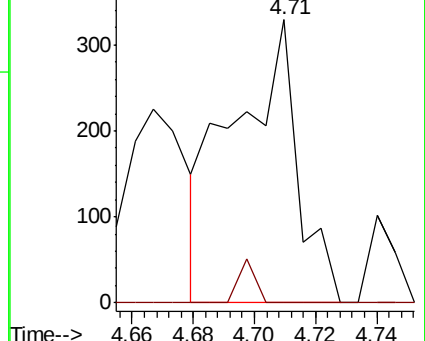
43 100

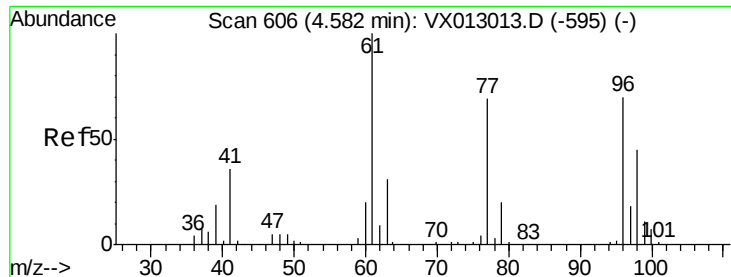
72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



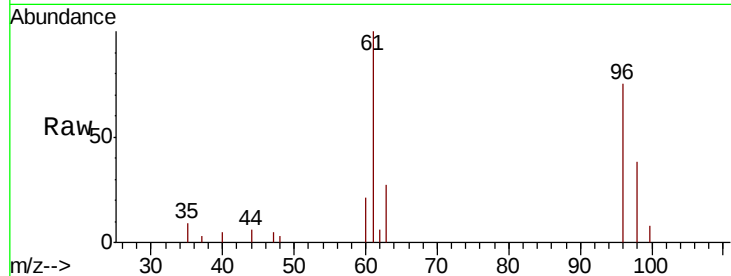


#27

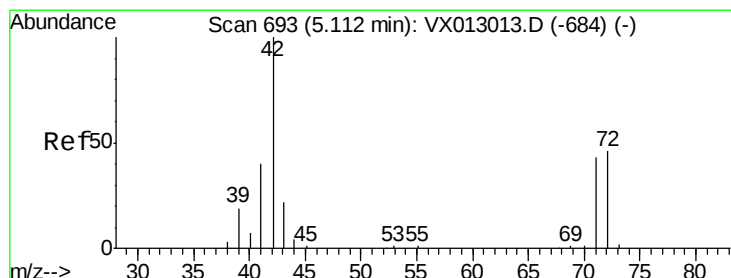
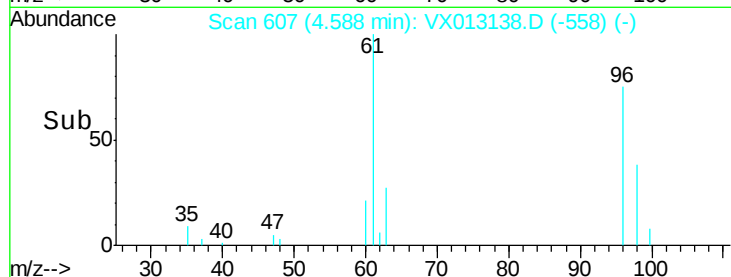
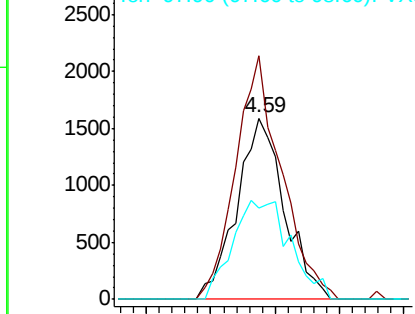
cis-1,2-Dichloroethene
Concen: 2.008 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW0542

Tot Ion: 96 Resp: 4080
Ion Ratio Lower Upper
96 100
61 129.2 0.0 290.6
98 66.2 0.0 128.8



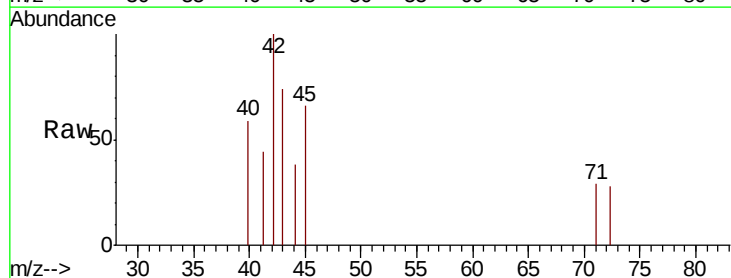
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



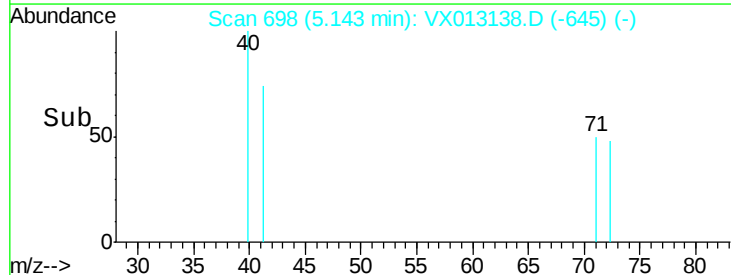
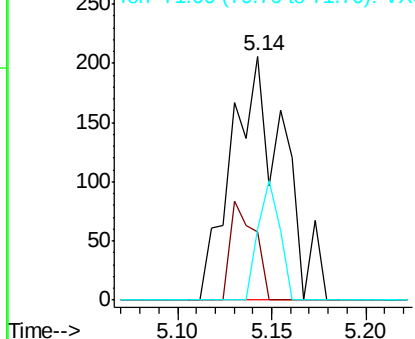
#29

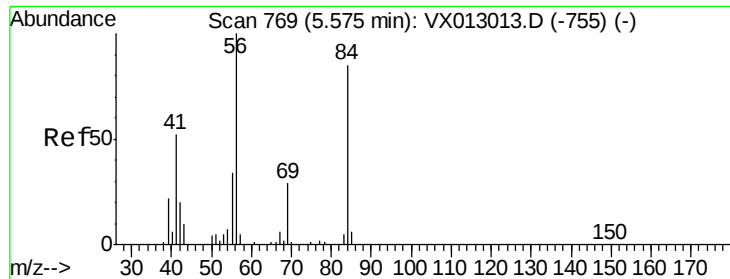
Tetrahydrofuran
Concen: 0.432 ug/l
RT: 5.14 min Scan# 698
Delta R.T. 0.02 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Tgt Ion: 42 Resp: 395
Ion Ratio Lower Upper
42 100
72 19.0 36.9 55.3#
71 20.3 33.5 50.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

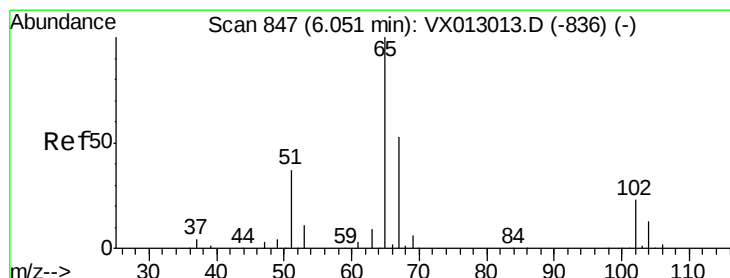
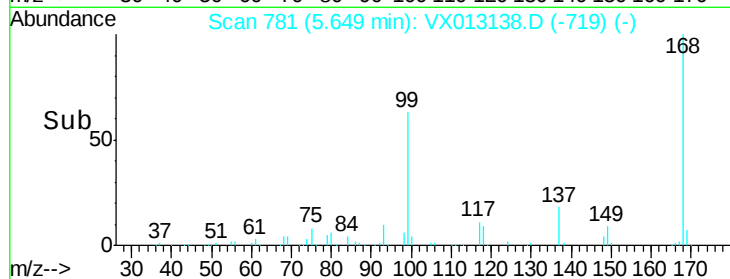
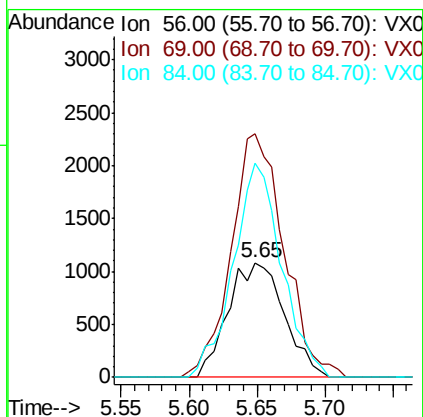
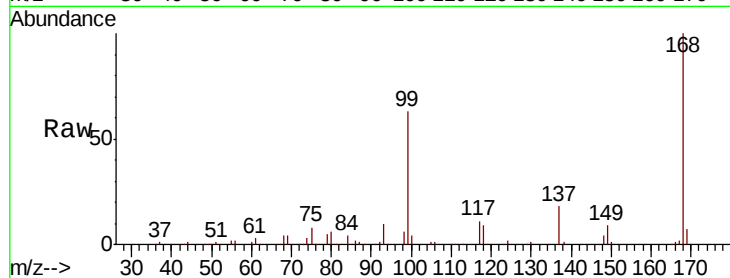




#31
Cyclohexane
Concen: 1.057 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

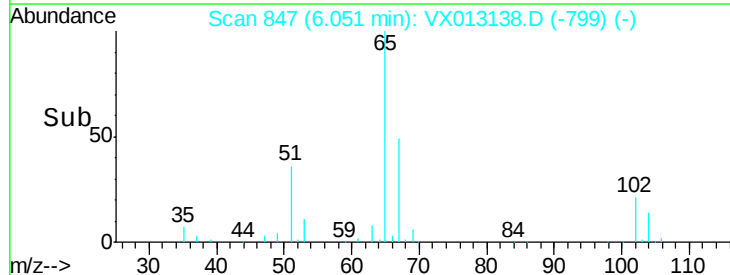
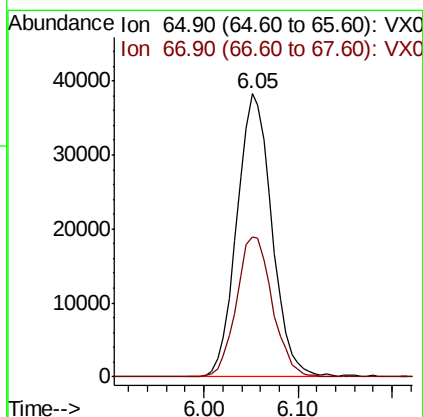
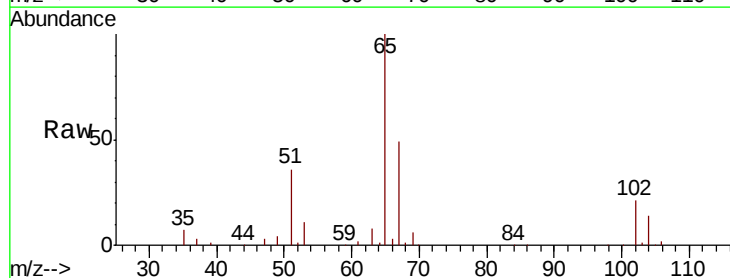
Instrument :
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FA19-JMW0542

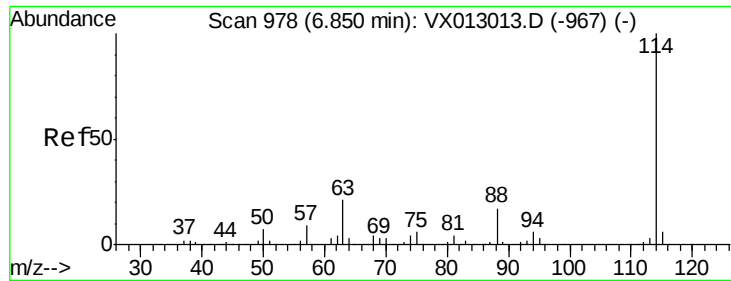
Tot Ion: 56 Resp: 3121
Ion Ratio Lower Upper
56 100
69 207.3 25.2 37.8#
84 186.7 71.3 106.9#



#33
1,2-Dichloroethane-d4
Concen: 48.885 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Tgt Ion: 65 Resp: 99429
Ion Ratio Lower Upper
65 100
67 50.8 0.0 104.4

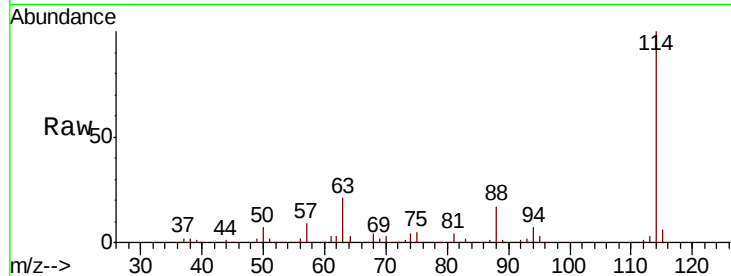




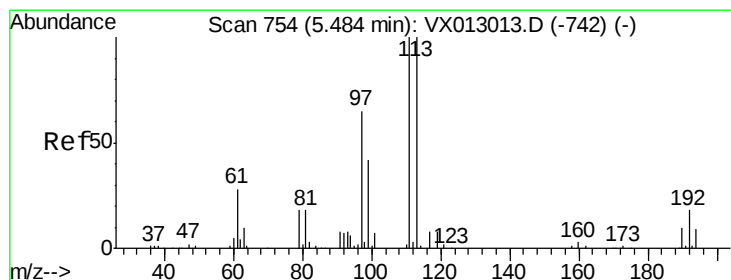
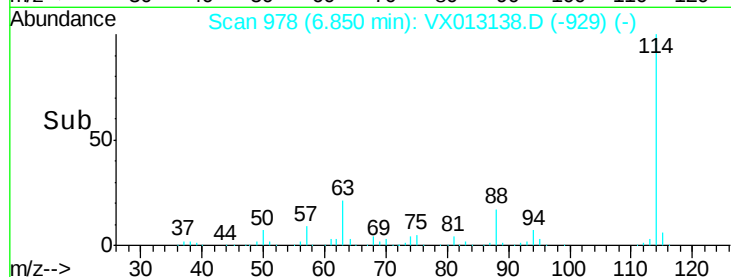
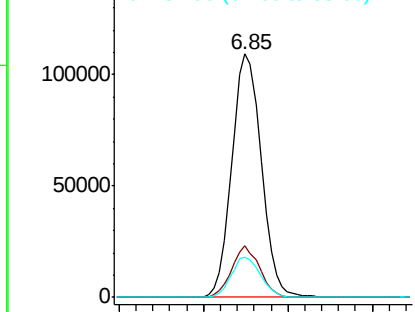
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW0542

Tot Ion:114 Resp: 259398
Ion Ratio Lower Upper
114 100
63 21.1 0.0 40.8
88 16.5 0.0 33.8

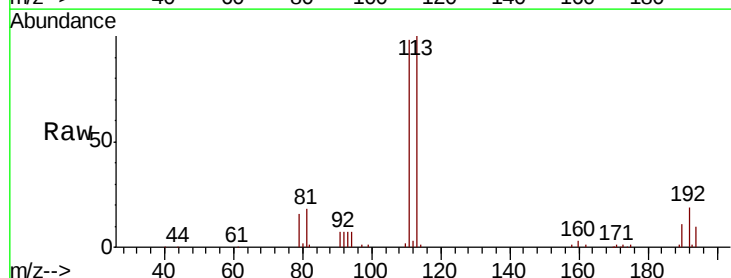


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

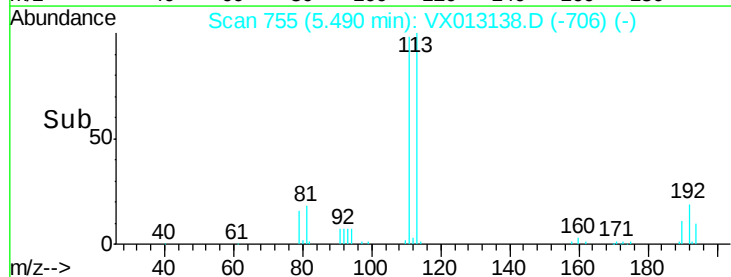
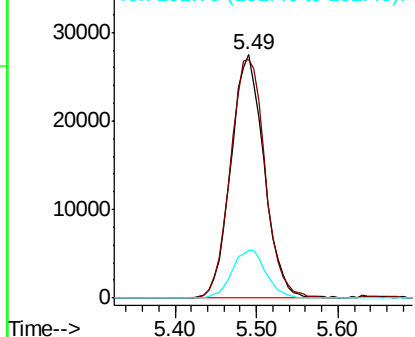


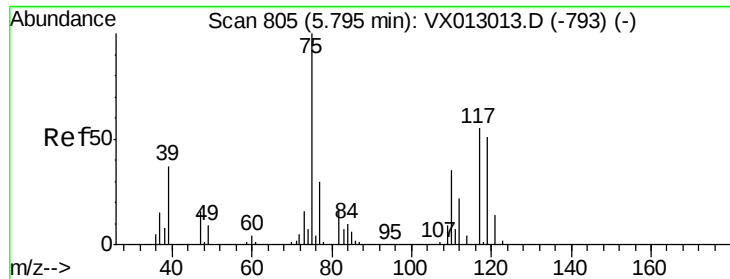
#35
Dibromofluoromethane
Concen: 51.907 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Tgt Ion:113 Resp: 77280
Ion Ratio Lower Upper
113 100
111 102.3 83.2 124.8
192 20.1 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

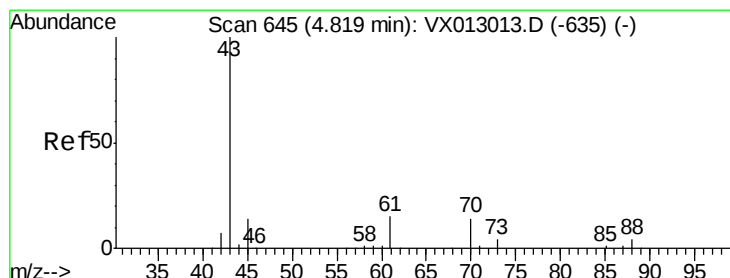
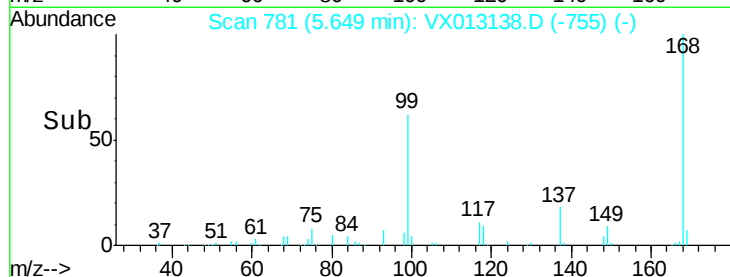
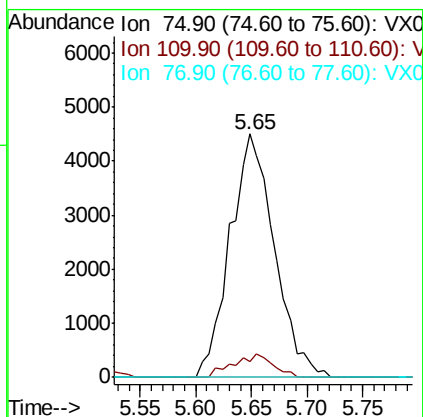
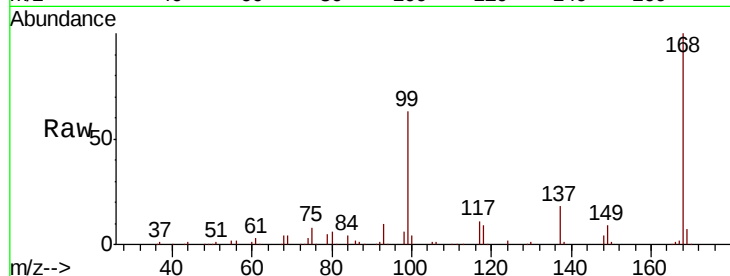




#36
 1,1-Dichloropropene
 Concen: 5.455 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013138.D
 Acq: 18 Oct 2019 19:27

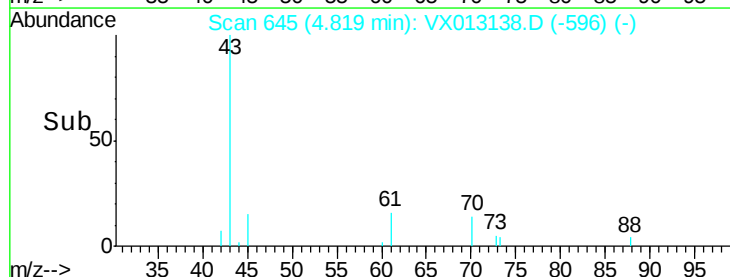
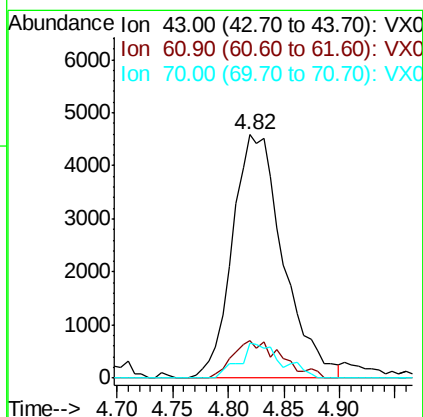
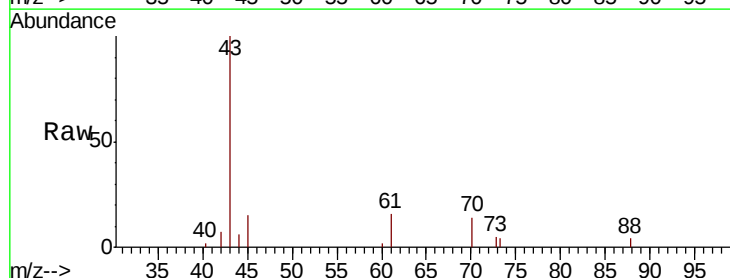
Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW0542

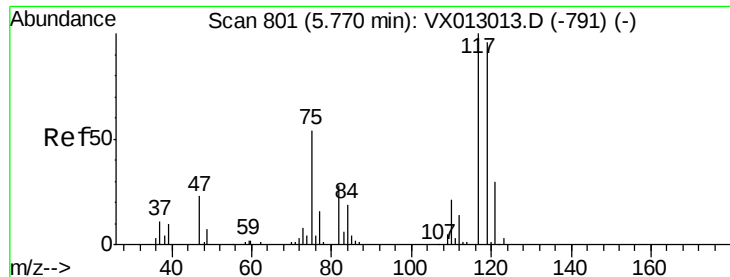
Tot Ion: 75 Resp: 12441
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.6 52.9#
 77 0.0 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 5.704 ug/l
 RT: 4.82 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VX013138.D
 Acq: 18 Oct 2019 19:27

Tgt Ion: 43 Resp: 14547
 Ion Ratio Lower Upper
 43 100
 61 14.9 11.4 17.0
 70 11.9 9.8 14.6





#38

Carbon Tetrachloride

Concen: 7.396 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW0542

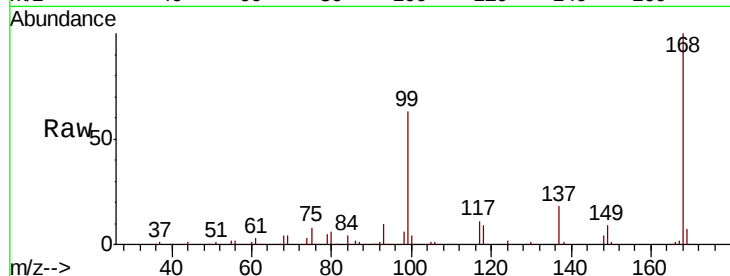
Tot Ion:117 Resp: 16417

Ion Ratio Lower Upper

117 100

119 4.3 74.5 111.7#

121 0.0 24.2 36.4#

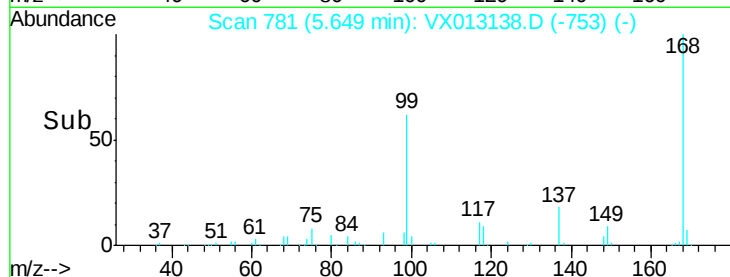


Abundance Ion 116.80 (116.50 to 117.50): V

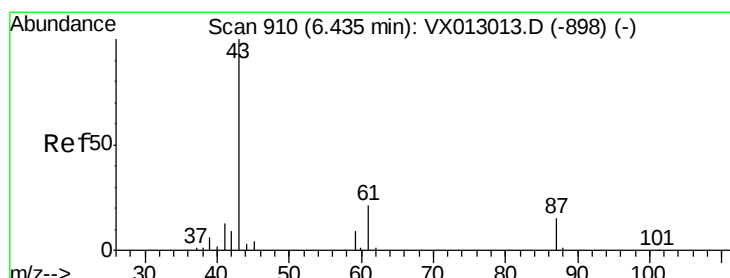
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

5.65



Time-->



#43

Isopropyl Acetate

Concen: 0.530 ug/l

RT: 6.33 min Scan# 893

Delta R.T. -0.10 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

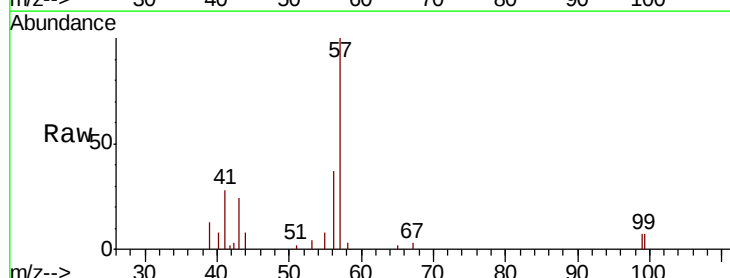
Tgt Ion: 43 Resp: 2169

Ion Ratio Lower Upper

43 100

61 0.0 16.6 24.8#

87 0.0 11.0 16.6#

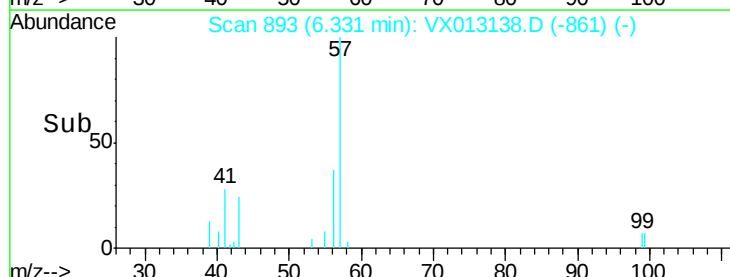


Abundance Ion 43.00 (42.70 to 43.70): VX0

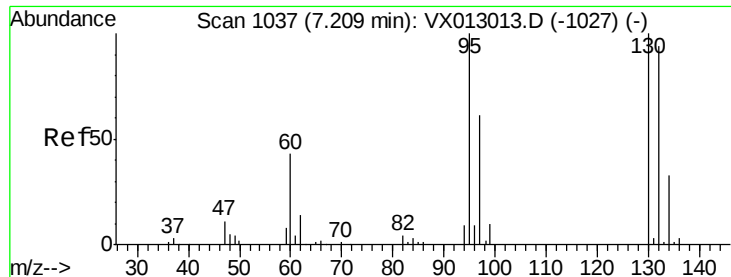
Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

6.33



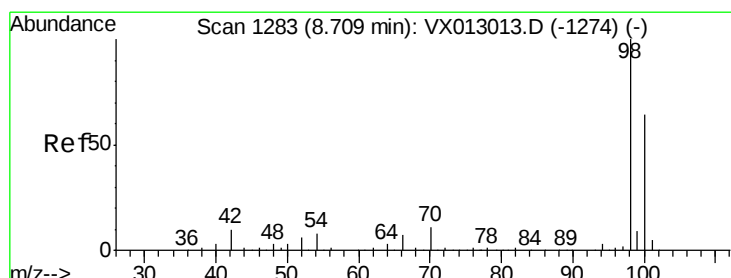
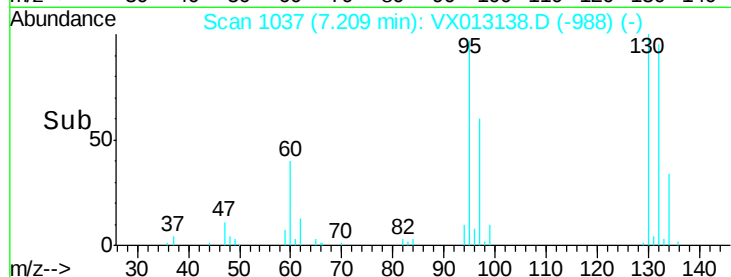
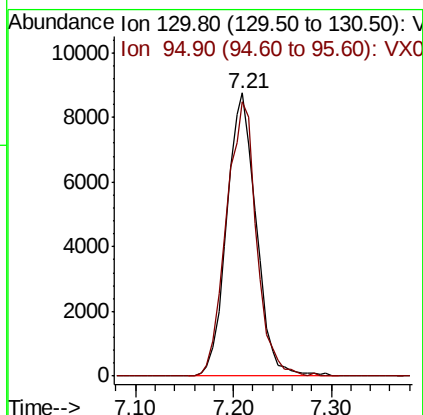
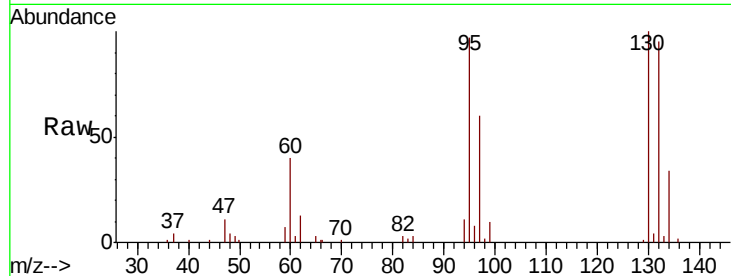
Time-->



#44
 Trichloroethene
 Concen: 9.800 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VX013138.D
 Acq: 18 Oct 2019 19:27

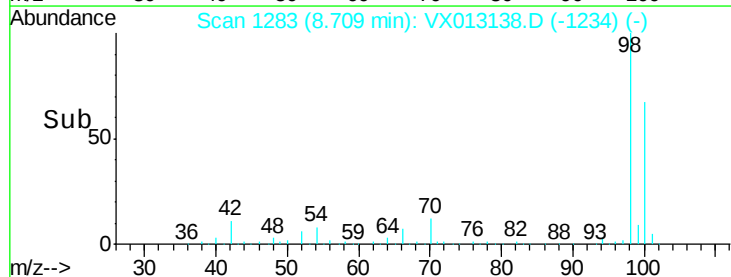
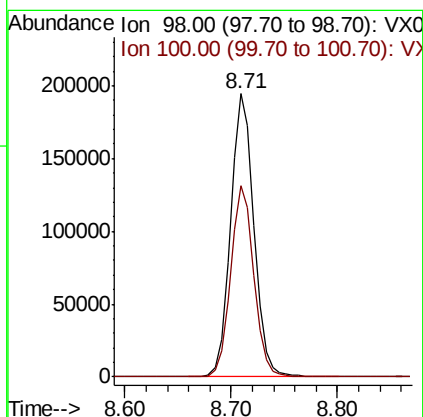
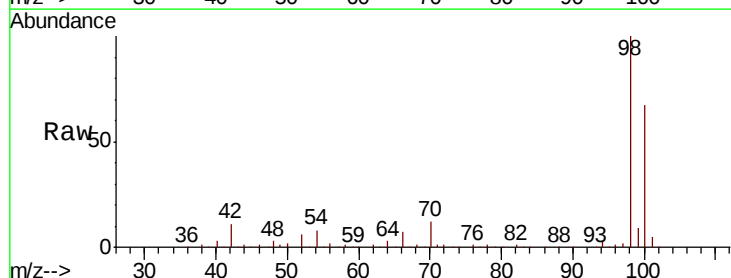
Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW0542

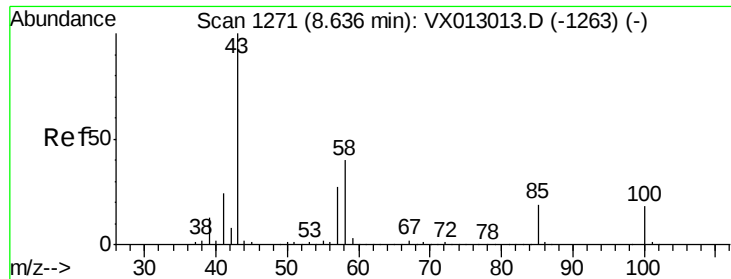
Tot Ion:130 Resp: 18305
 Ion Ratio Lower Upper
 130 100
 95 97.1 0.0 189.2



#50
 Toluene-d8
 Concen: 51.371 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VX013138.D
 Acq: 18 Oct 2019 19:27

Tgt Ion: 98 Resp: 298295
 Ion Ratio Lower Upper
 98 100
 100 67.3 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 0.508 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

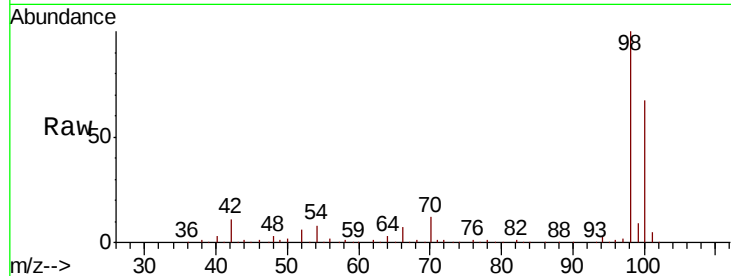
FA19-JMW0542

Tot Ion: 43 Resp: 1296

Ion Ratio Lower Upper

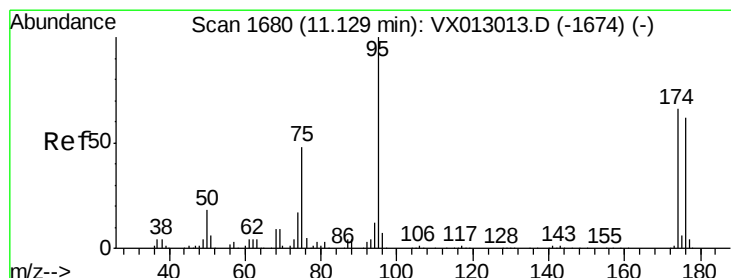
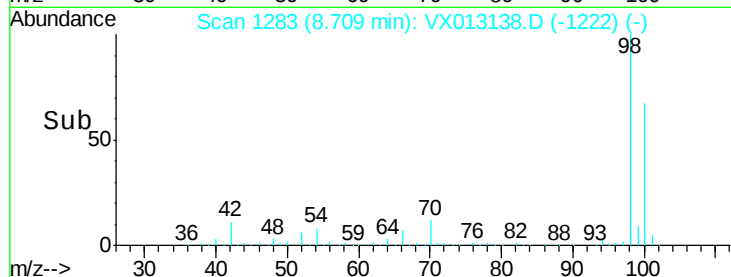
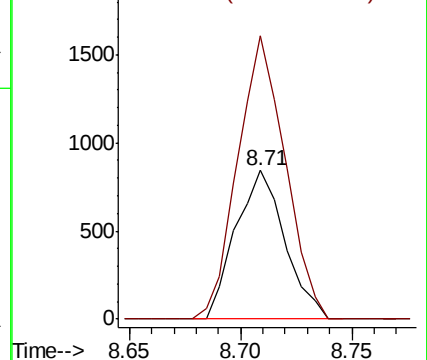
43 100

58 184.3 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.195 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

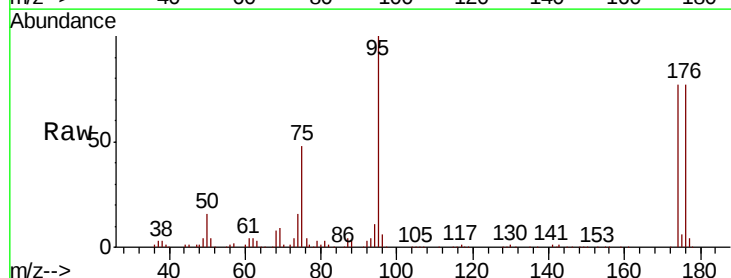
Tgt Ion: 95 Resp: 95203

Ion Ratio Lower Upper

95 100

174 75.0 0.0 143.4

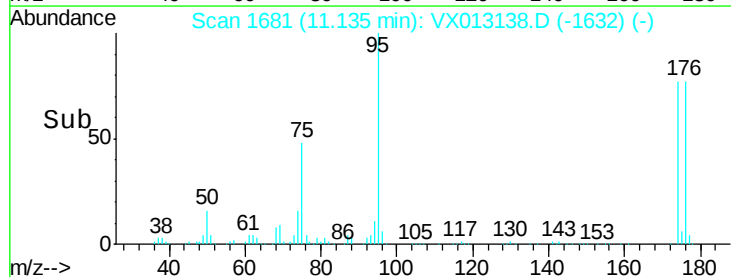
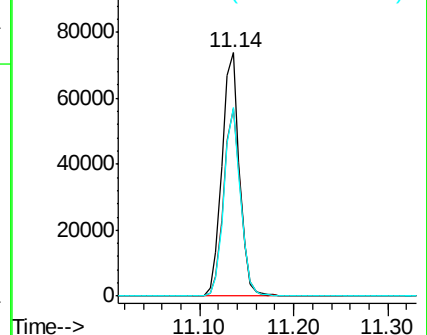
176 73.6 0.0 136.0

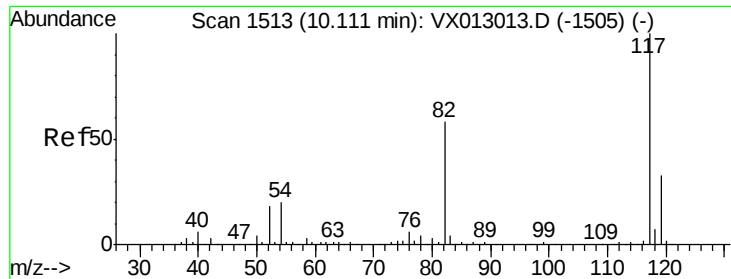


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

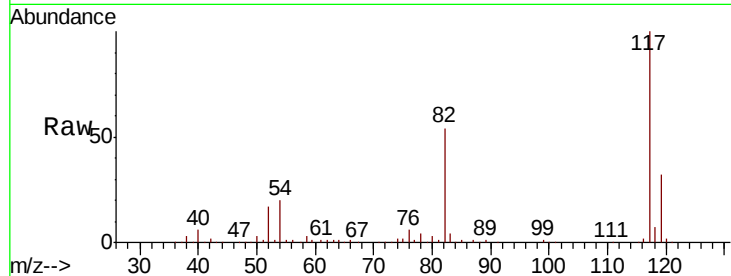




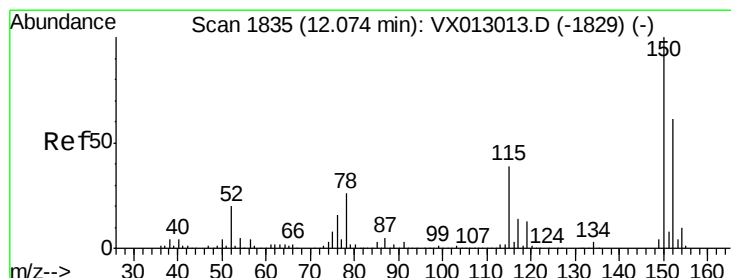
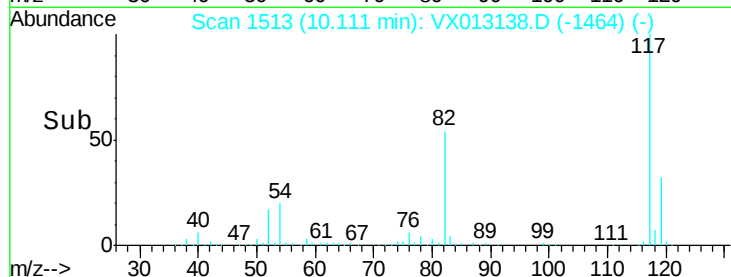
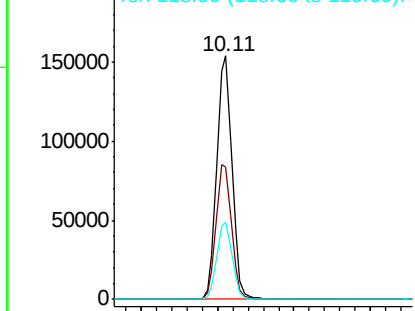
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW0542

Tot Ion:117 Resp: 213150
Ion Ratio Lower Upper
117 100
82 54.4 44.1 66.1
119 31.7 25.8 38.8

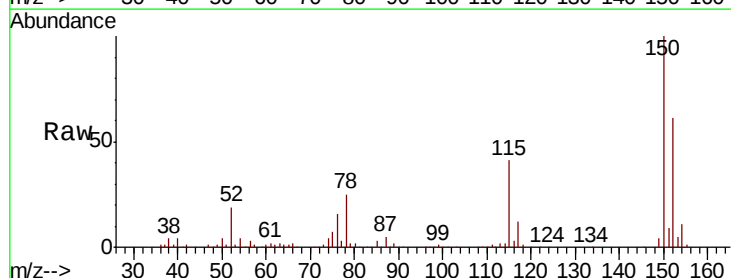


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

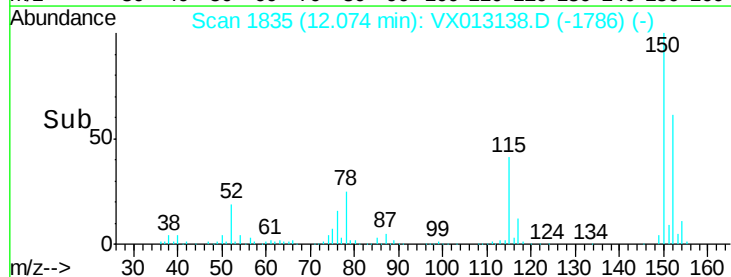
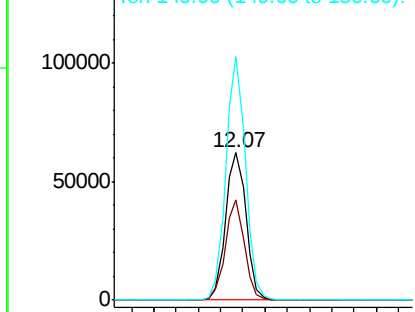


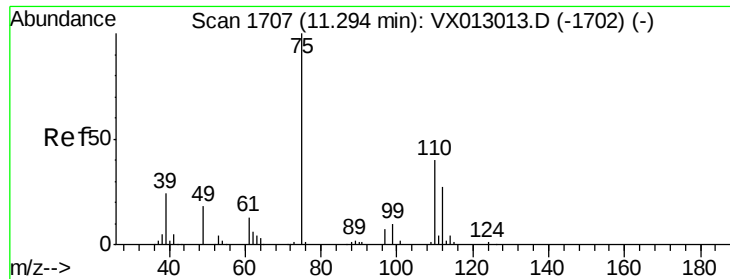
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013138.D
Acq: 18 Oct 2019 19:27

Tgt Ion:152 Resp: 79413
Ion Ratio Lower Upper
152 100
115 63.0 44.5 133.5
150 157.6 0.0 353.4



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: 27.003 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

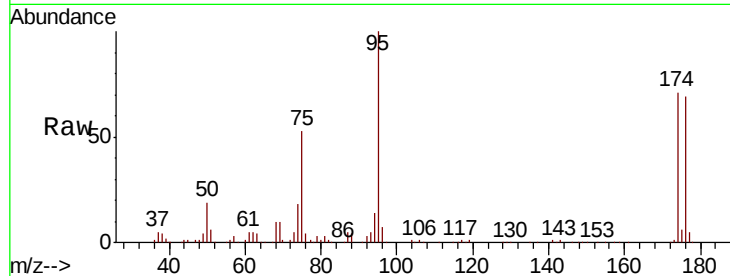
FA19-JMW0542

Tot Ion: 75 Resp: 47562

Ion Ratio Lower Upper

75 100

77 1.6 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

40000

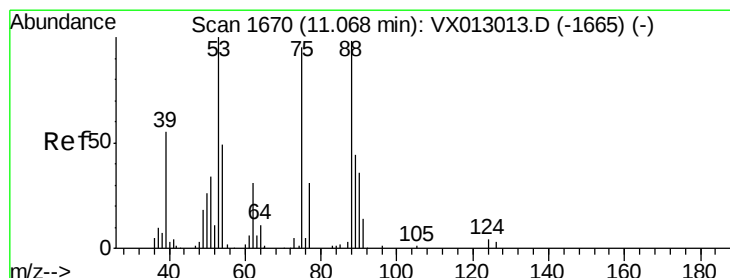
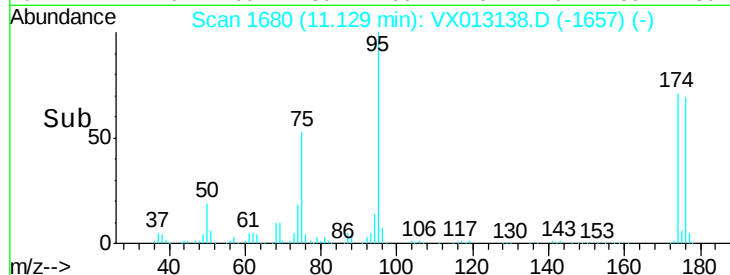
30000

20000

10000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 67.849 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013138.D

Acq: 18 Oct 2019 19:27

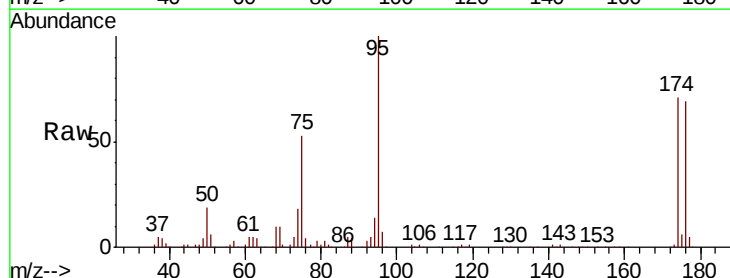
Tgt Ion: 75 Resp: 47562

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

40000

30000

20000

10000

0

Time--> 11.05 11.10 11.15 11.20

