

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082419\
 Data File : VX011824.D
 Acq On : 24 Aug 2019 17:25
 Operator : JC/SP
 Sample : K4474-24
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-F2-(2.5)

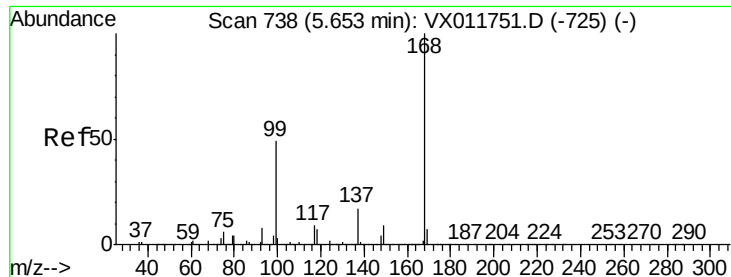
Quant Time: Aug 26 04:10:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	480870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	648112	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	608863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	331452	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	215638	44.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.28%	
35) Dibromofluoromethane	5.49	113	194011	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
50) Toluene-d8	8.71	98	749122	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.13	95	274675	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	

Target Compounds						Qvalue
5) Bromomethane	1.65	94	696	0.321	ug/l #	71
6) Chloroethane	1.60	64	3325	1.445	ug/l #	55
8) Diethyl Ether	2.18	74	2347	1.102	ug/l	82
11) Tert butyl alcohol	3.01	59	2538	2.659	ug/l #	82
13) Acrolein	2.28	56	492	1.333	ug/l #	57
16) Acetone	2.43	43	11461	5.454	ug/l	99
18) Methyl Acetate	2.77	43	3626	0.636	ug/l #	86
20) Methylene Chloride	2.85	84	14860	3.459	ug/l	97
25) 2-Butanone	4.67	43	1389	0.461	ug/l #	86
29) Tetrahydrofuran	5.12	42	688	0.356	ug/l #	42
36) 1,1-Dichloropropene	5.65	75	24871	4.894	ug/l #	53
38) Carbon Tetrachloride	5.66	117	40387	7.012	ug/l #	17
43) Isopropyl Acetate	6.43	43	66324	7.619	ug/l	97
48) Methyl methacrylate	7.68	41	4612	1.065	ug/l #	15
49) 1,4-Dioxane	7.74	88	178	1.483	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	63796	11.122	ug/l #	53
54) cis-1,3-Dichloropropene	8.61	75	31400	5.228	ug/l #	60
59) 2-Hexanone	9.54	43	73241	16.636	ug/l #	51
74) N-amyl acetate	10.82	43	3016	0.390	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	126417	21.736	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	126417	65.552	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011824.D

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MSVOA_X

ClientSampleId :

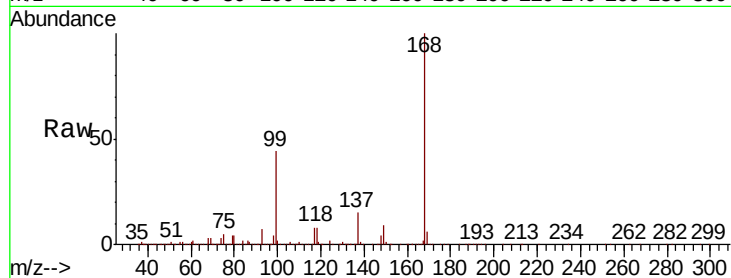
T1-2-F2-(2.5)

Tgt Ion:168 Resp: 480870

Ion Ratio Lower Upper

168 100

99 44.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

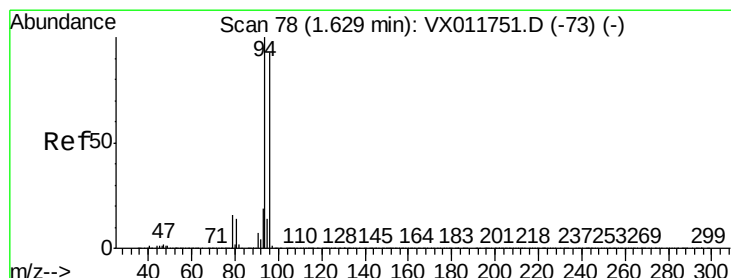
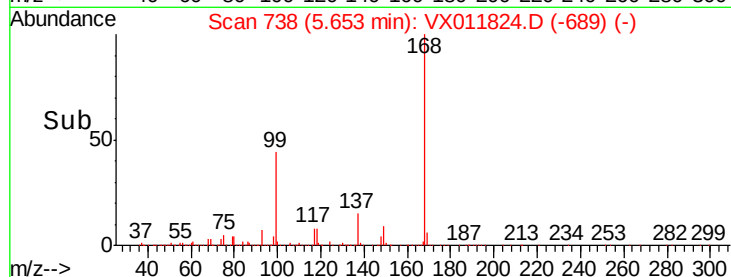
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.321 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011824.D

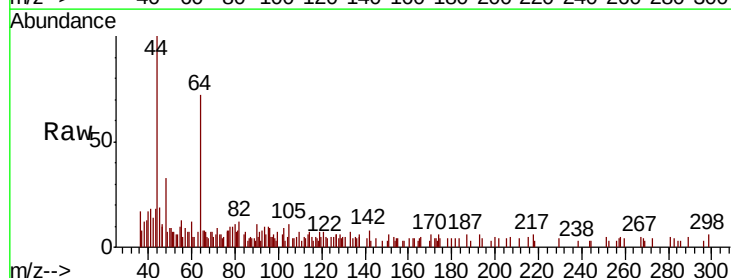
Acq: 24 Aug 2019 17:25

Tgt Ion: 94 Resp: 696

Ion Ratio Lower Upper

94 100

96 65.2 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

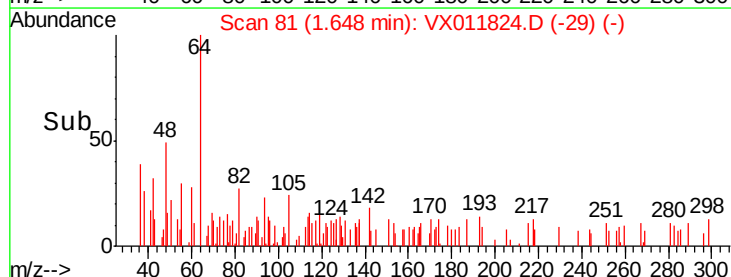
200

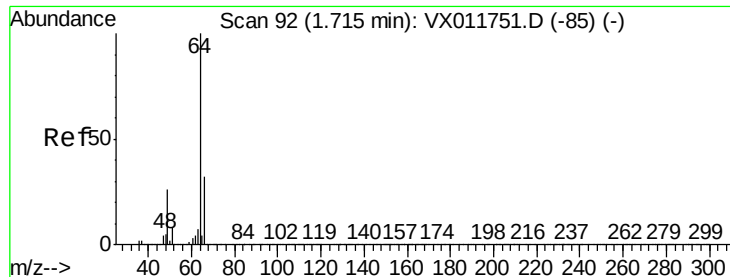
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 1.445 ug/l

RT: 1.60 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampled :

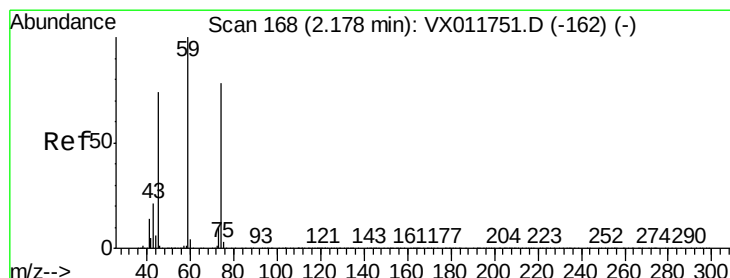
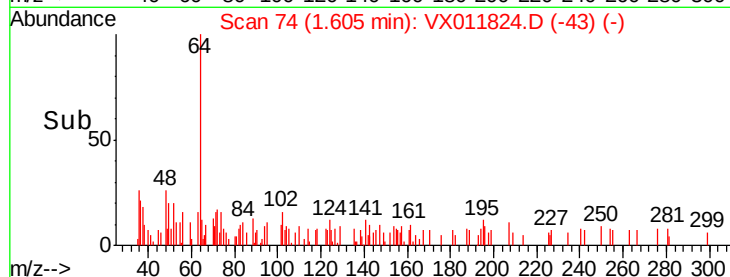
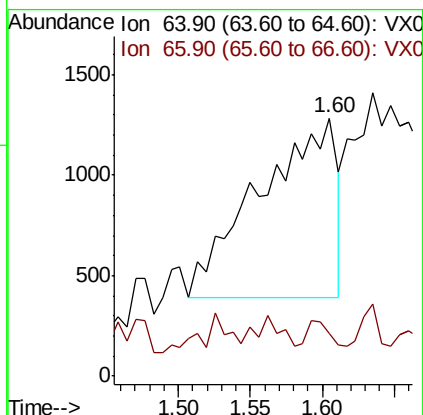
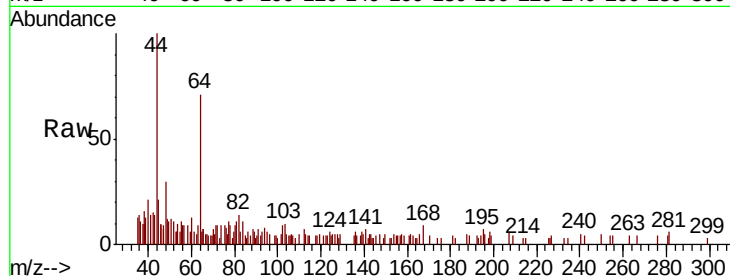
T1-2-F2-(2.5)

Tgt Ion: 64 Resp: 3325

Ion Ratio Lower Upper

64 100

66 6.5 24.9 37.3#



#8

Diethyl Ether

Concen: 1.102 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011824.D

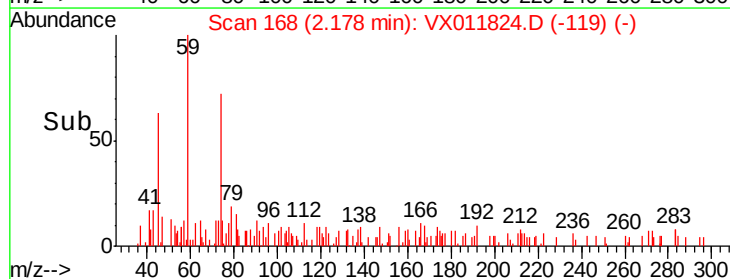
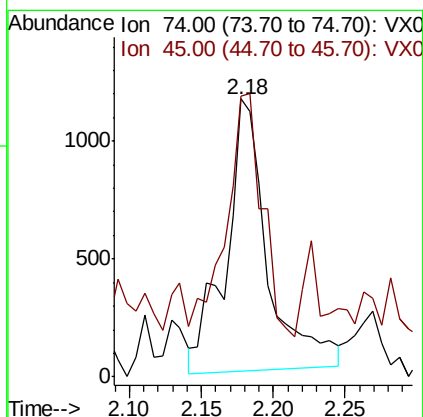
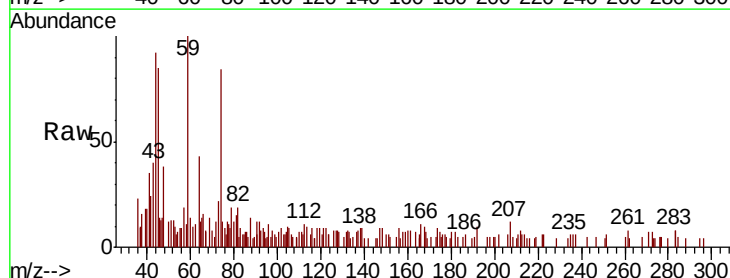
Acq: 24 Aug 2019 17:25

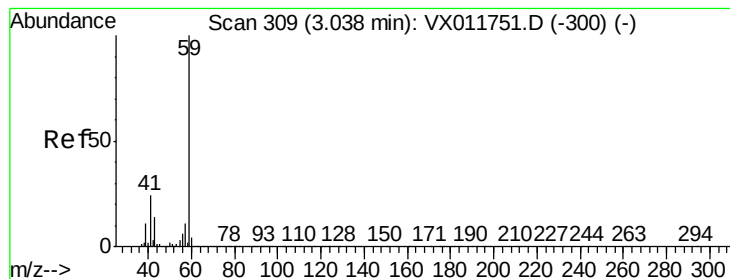
Tgt Ion: 74 Resp: 2347

Ion Ratio Lower Upper

74 100

45 76.2 46.7 140.0



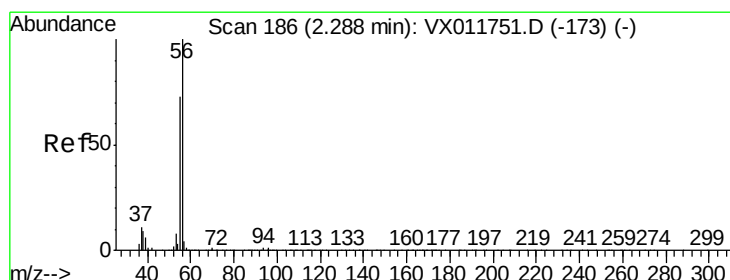
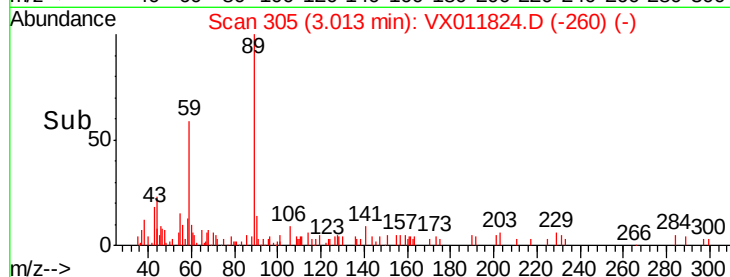
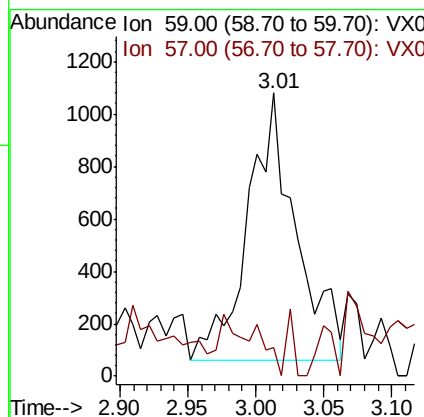
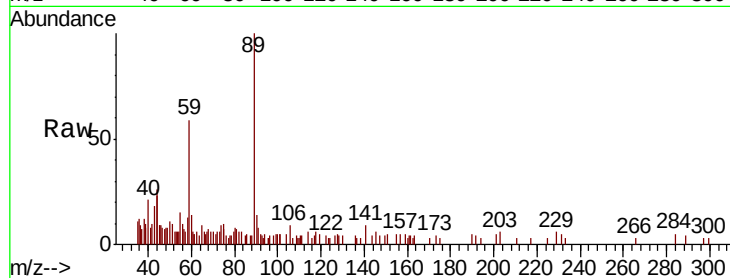


#11

Tert butyl alcohol
Concen: 2.659 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

Instrument :
MSVOA_X
ClientSampleId :
T1-2-F2-(2.5)

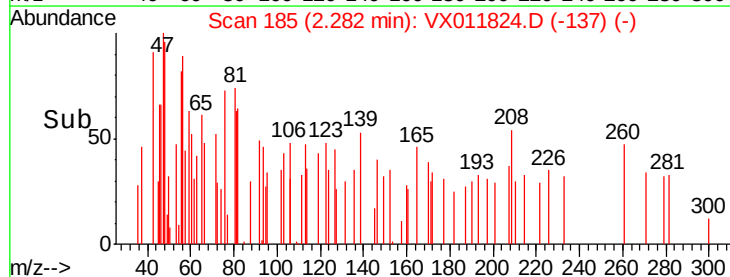
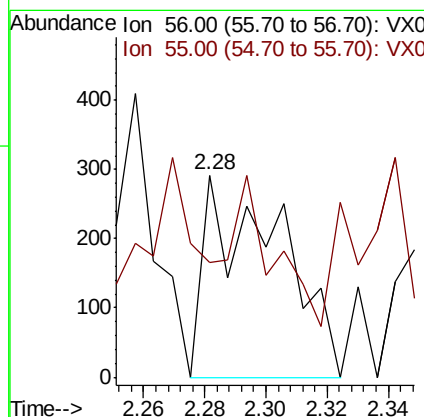
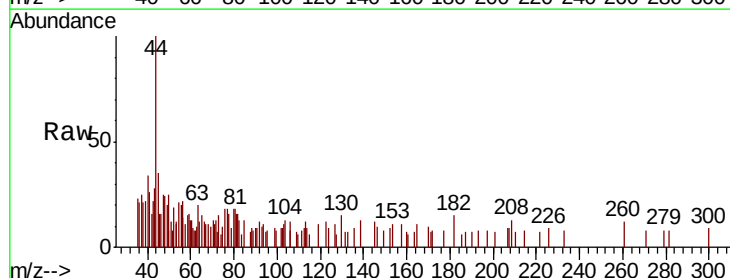
Tgt Ion: 59 Resp: 2538
Ion Ratio Lower Upper
59 100
57 3.7 8.4 12.6#

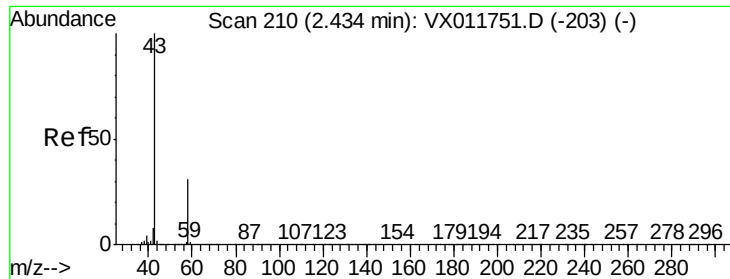


#13

Acrolein
Concen: 1.333 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

Tgt Ion: 56 Resp: 492
Ion Ratio Lower Upper
56 100
55 33.5 54.8 82.2#





#16

Acetone

Concen: 5.454 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

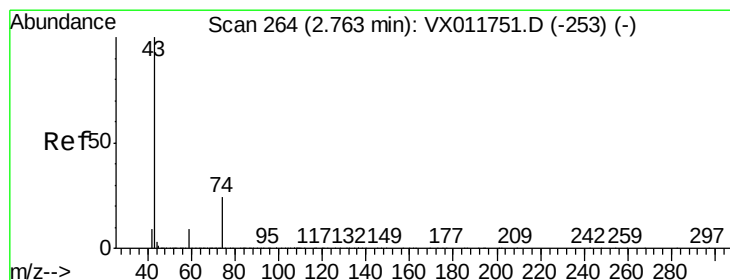
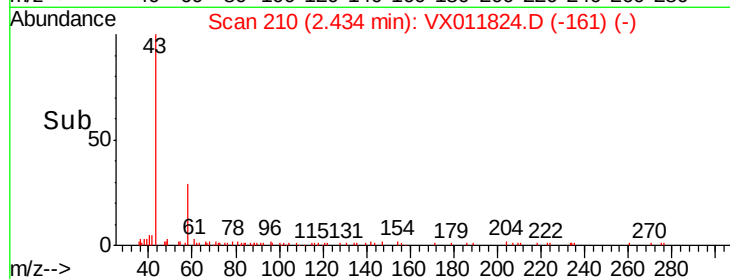
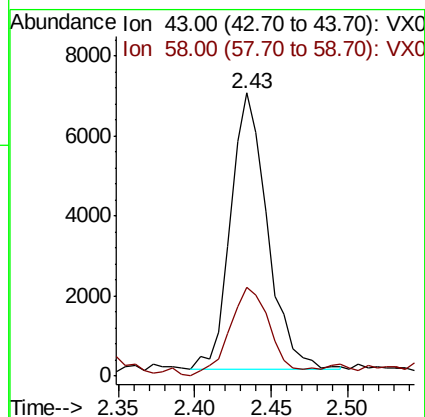
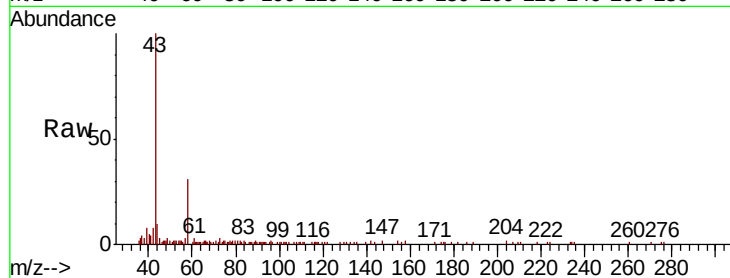
T1-2-F2-(2.5)

Tgt Ion: 43 Resp: 11461

Ion Ratio Lower Upper

43 100

58 29.8 24.4 36.6



#18

Methyl Acetate

Concen: 0.636 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011824.D

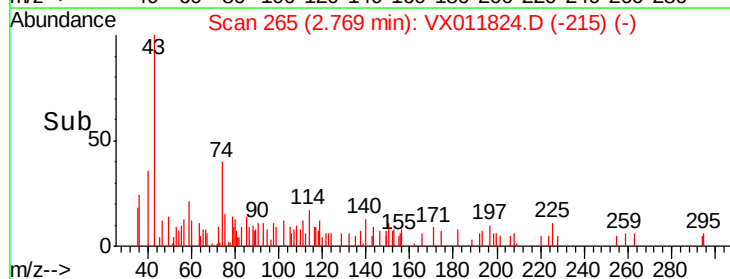
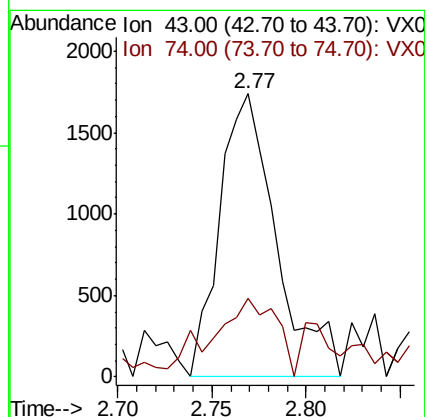
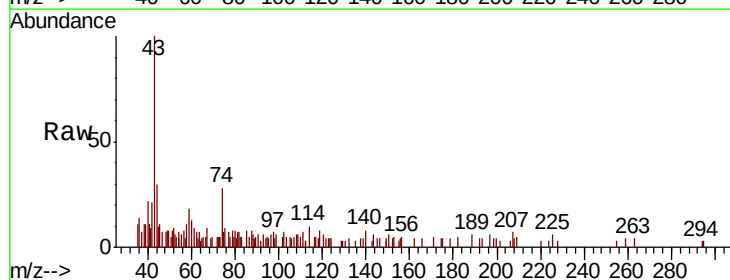
Acq: 24 Aug 2019 17:25

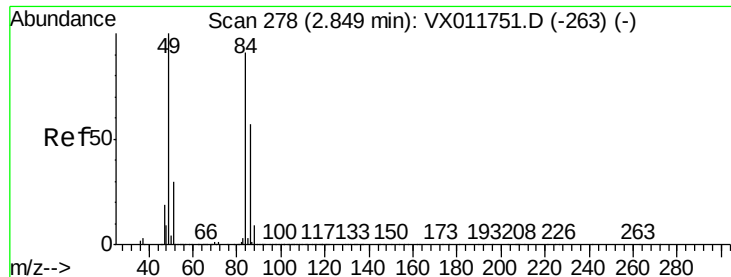
Tgt Ion: 43 Resp: 3626

Ion Ratio Lower Upper

43 100

74 31.1 19.5 29.3#

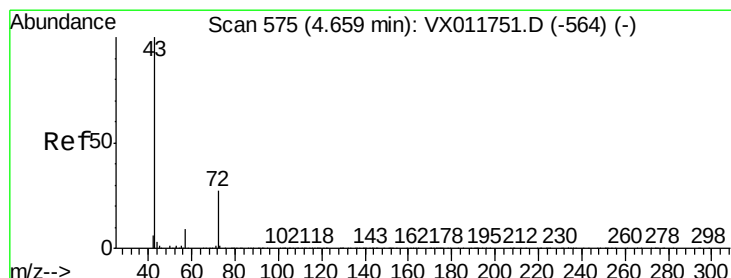
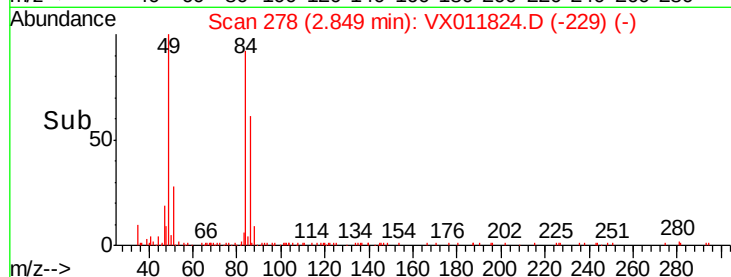
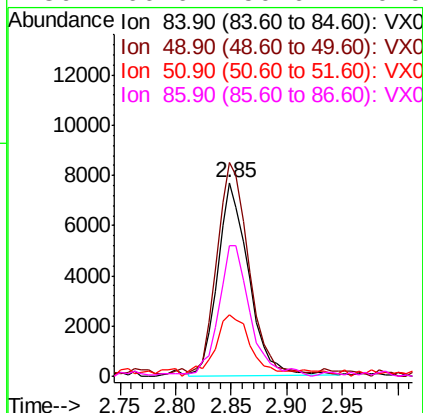
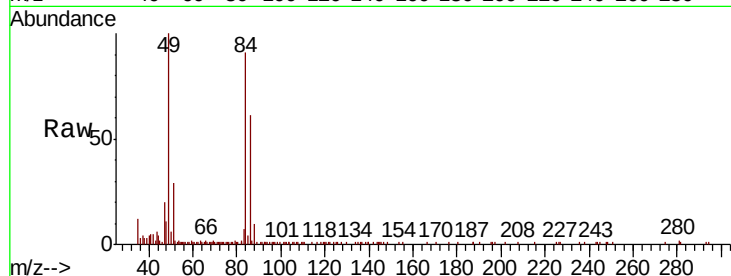




#20
Methylene Chloride
Concen: 3.459 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

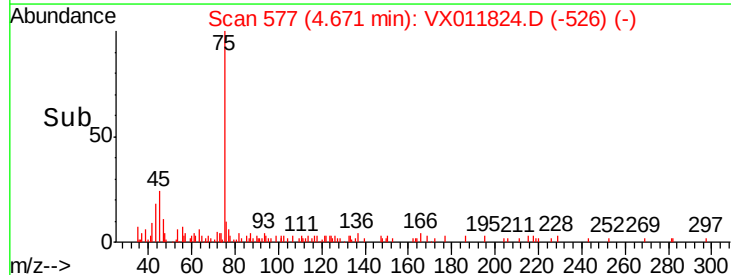
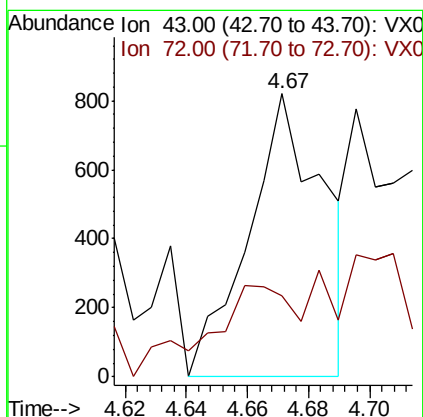
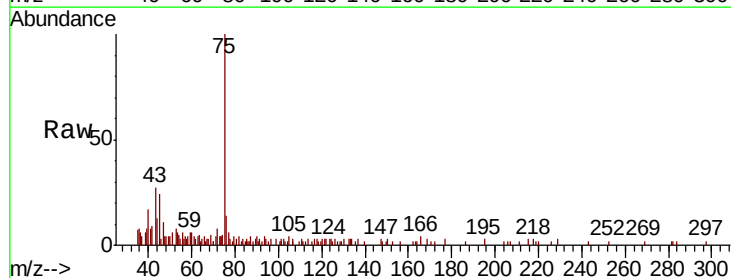
Instrument :
MSVOA_X
ClientSampleId :
T1-2-F2-(2.5)

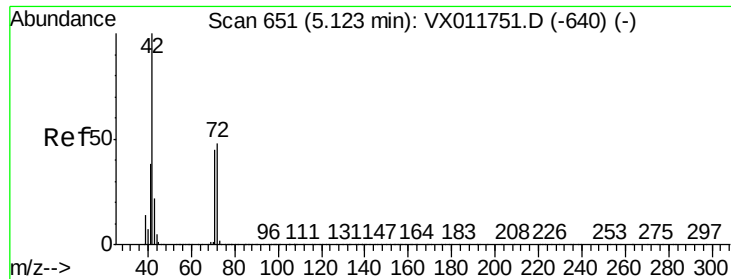
Tgt Ion:	84	Resp:	14860
Ion	Ratio	Lower	Upper
84	100		
49	109.0	88.3	132.5
51	30.5	26.2	39.2
86	66.6	50.6	76.0



#25
2-Butanone
Concen: 0.461 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.01 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

Tgt Ion:	43	Resp:	1389
Ion	Ratio	Lower	Upper
43	100		
72	19.8	21.8	32.6#





#29

Tetrahydrofuran

Concen: 0.356 ug/l

RT: 5.12 min Scan# 650

Delta R.T. -0.01 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampled :

T1-2-F2-(2.5)

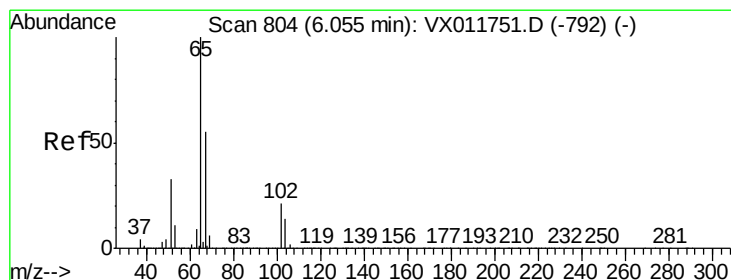
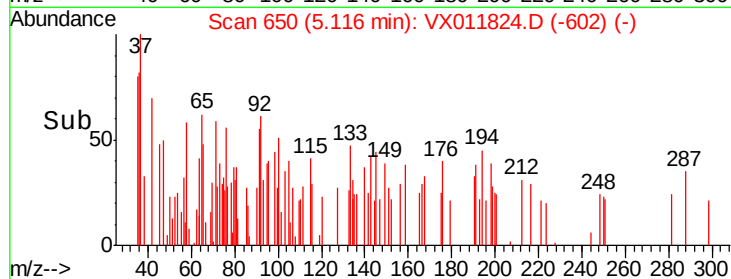
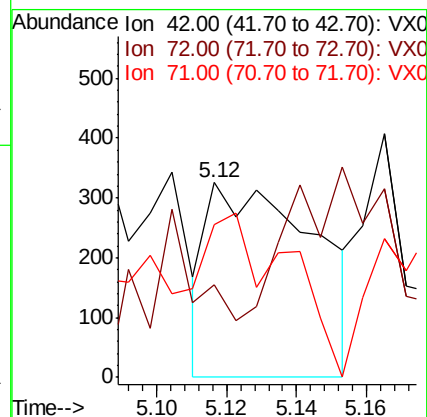
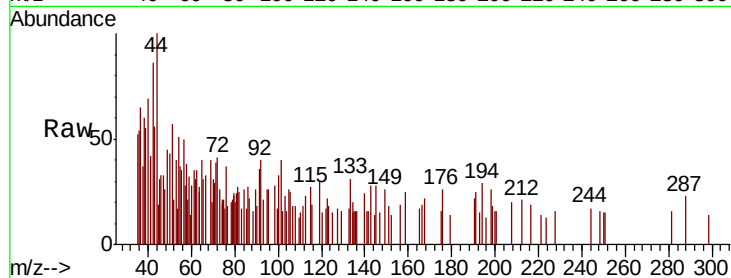
Tgt Ion: 42 Resp: 688

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

71 71.5 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 44.640 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011824.D

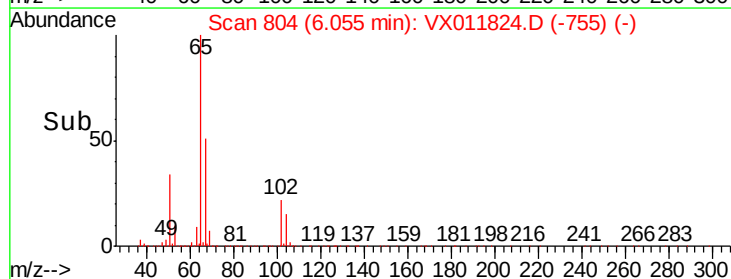
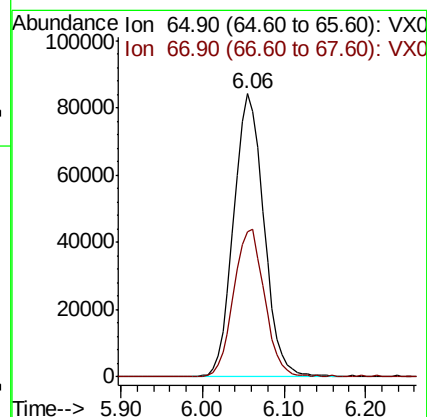
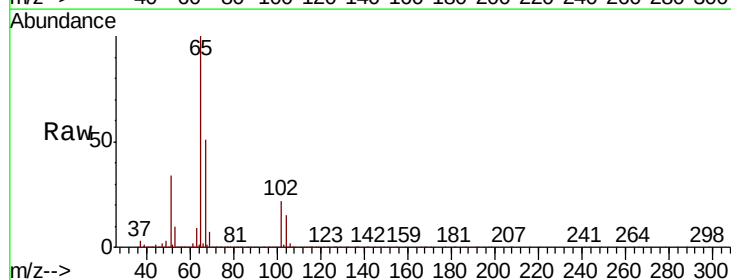
Acq: 24 Aug 2019 17:25

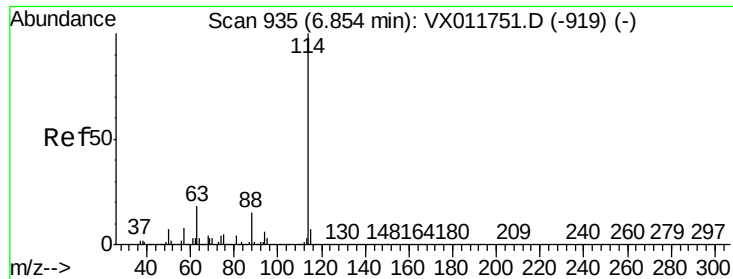
Tgt Ion: 65 Resp: 215638

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

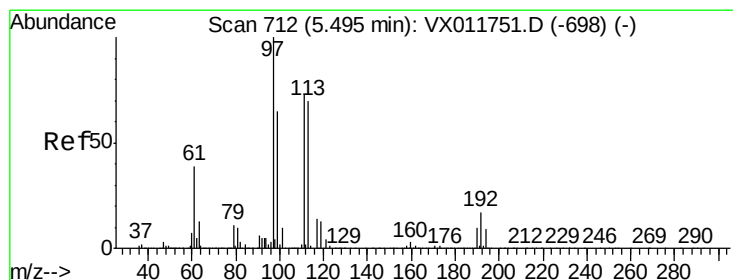
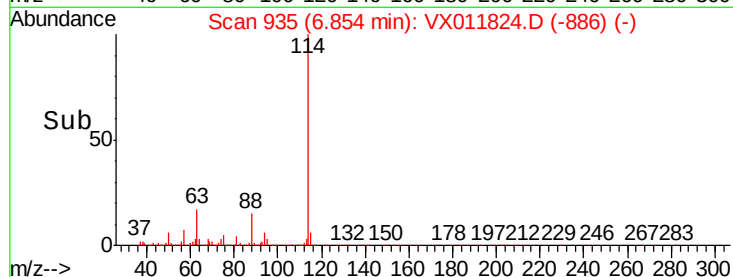
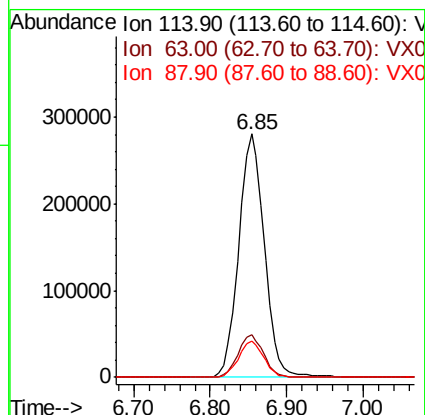
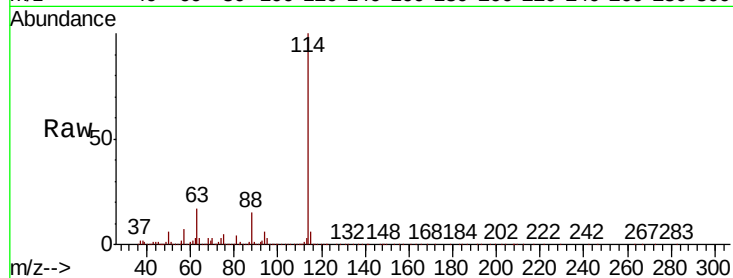
Instrument :

MSVOA_X

ClientSampleId :

T1-2-F2-(2.5)

Tgt Ion:	114	Resp:	648112
Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	36.8
88	14.7	0.0	30.2



#35

Dibromofluoromethane

Concen: 46.293 ug/l

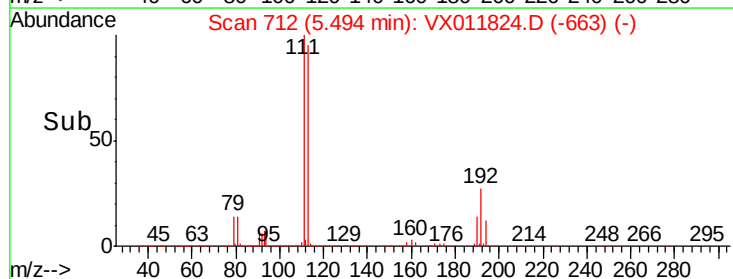
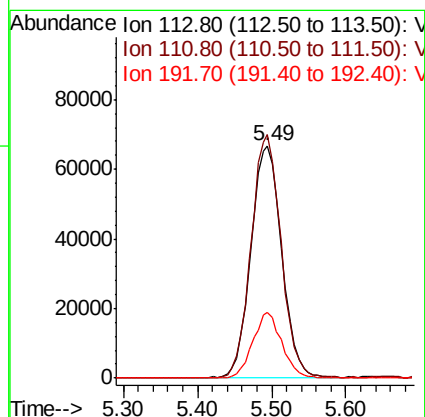
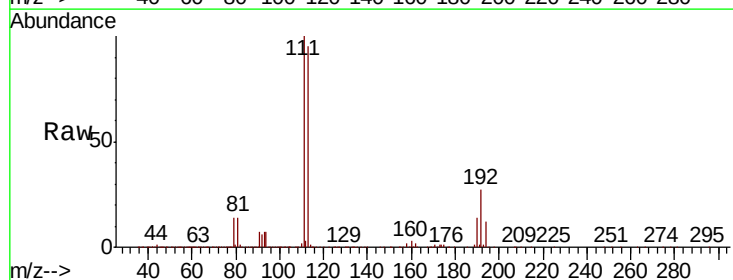
RT: 5.49 min Scan# 712

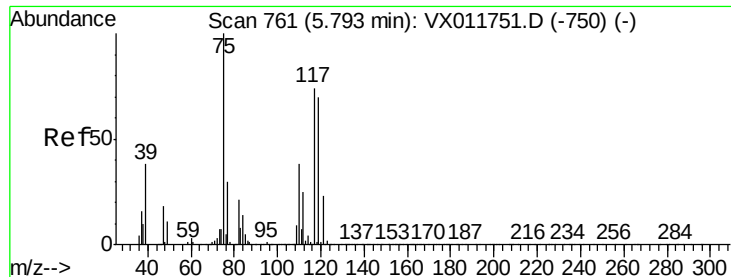
Delta R.T. -0.00 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Tgt Ion:	113	Resp:	194011
Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.0	121.4
192	26.7	19.9	29.9

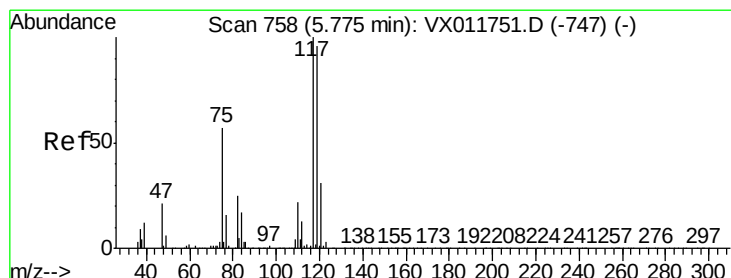
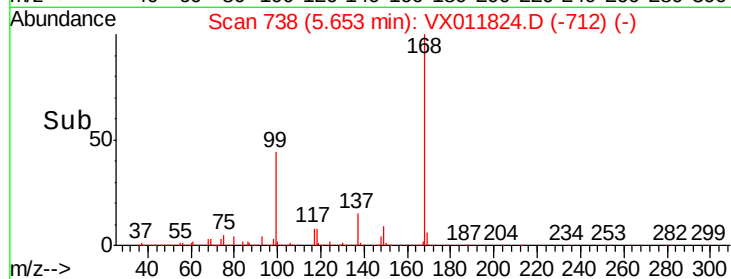
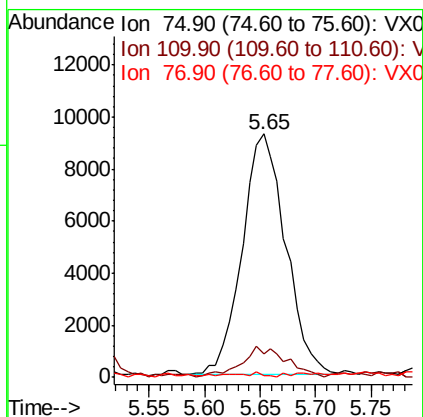
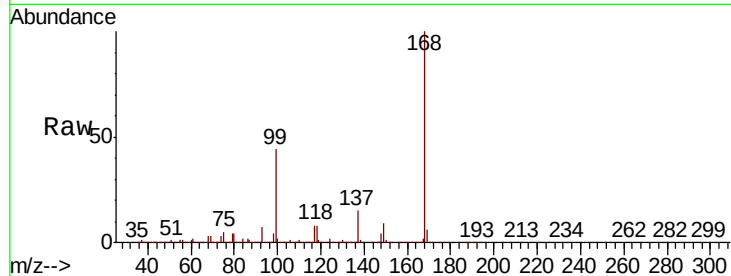




#36
 1,1-Dichloropropene
 Concen: 4.894 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011824.D
 Acq: 24 Aug 2019 17:25

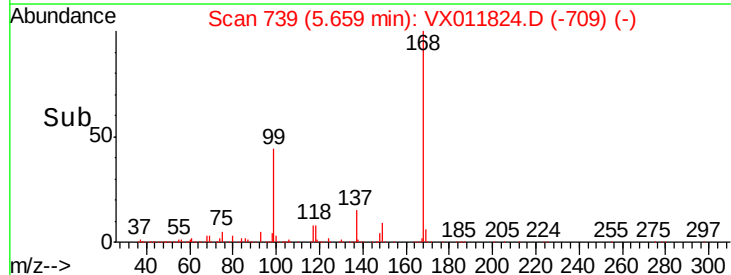
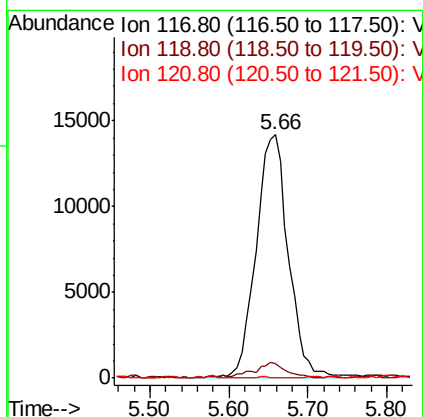
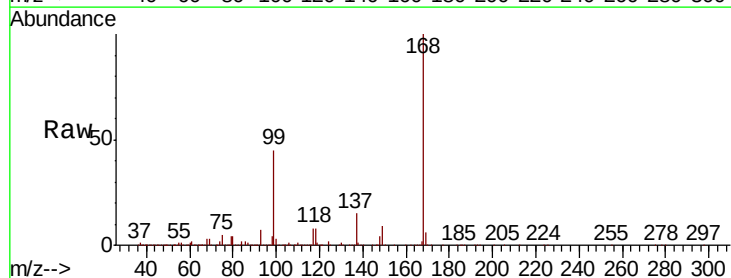
Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-F2-(2.5)

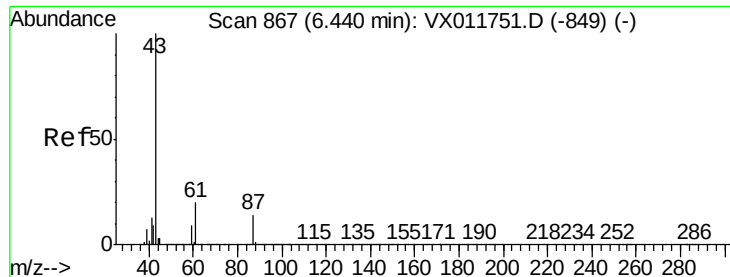
Tgt Ion	Ratio	Lower	Upper
75	100		
110	13.4	19.0	57.0#
77	1.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 7.012 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011824.D
 Acq: 24 Aug 2019 17:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	76.6	114.8#
121	0.8	25.2	37.8#





#43

Isopropyl Acetate

Concen: 7.619 ug/l

RT: 6.43 min Scan# 866

Delta R.T. -0.01 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

T1-2-F2-(2.5)

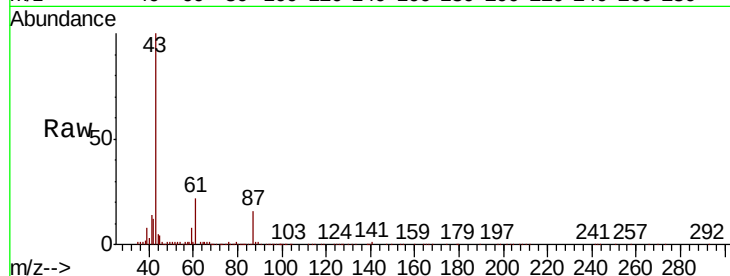
Tgt Ion: 43 Resp: 66324

Ion Ratio Lower Upper

43 100

61 21.5 16.2 24.2

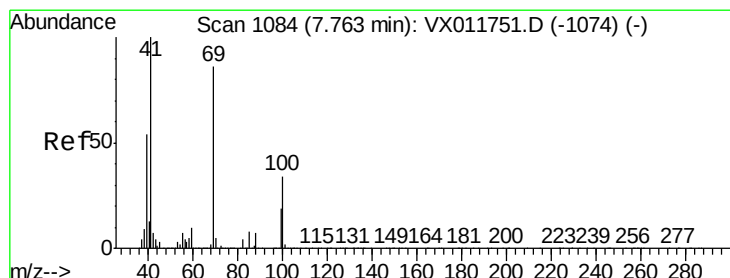
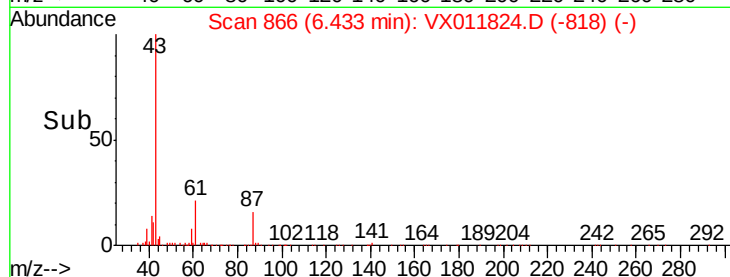
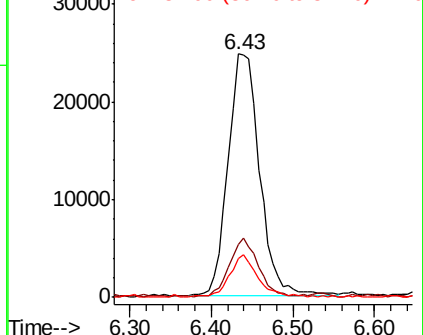
87 15.5 11.6 17.4



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: 1.065 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

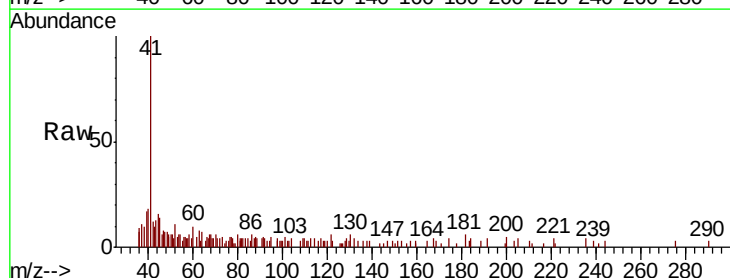
Tgt Ion: 41 Resp: 4612

Ion Ratio Lower Upper

41 100

69 3.3 69.4 104.2#

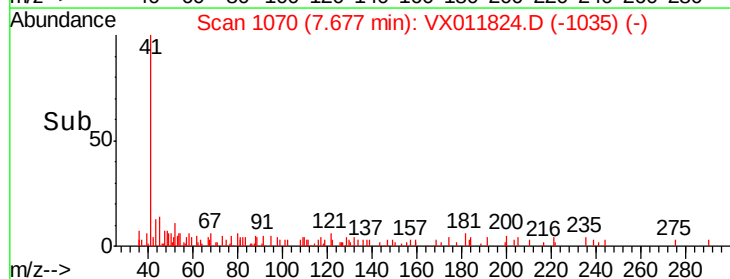
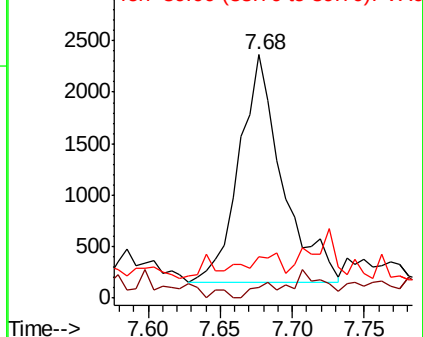
39 0.0 43.6 65.4#

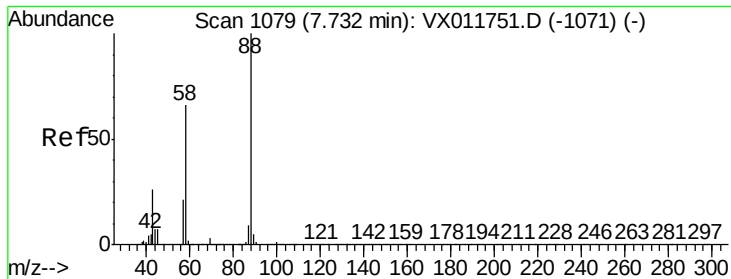


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.483 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampled :

T1-2-F2-(2.5)

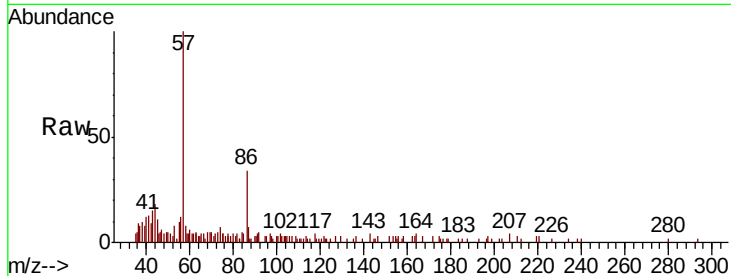
Tgt Ion: 88 Resp: 178

Ion Ratio Lower Upper

88 100

43 0.0 24.6 37.0#

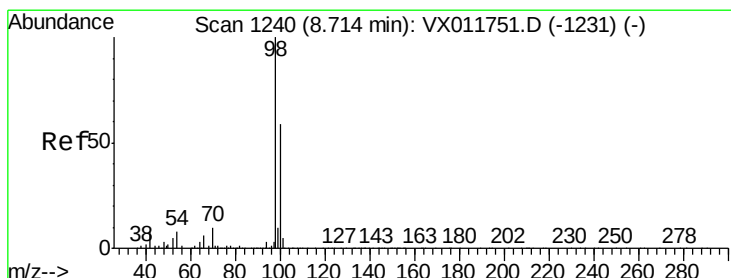
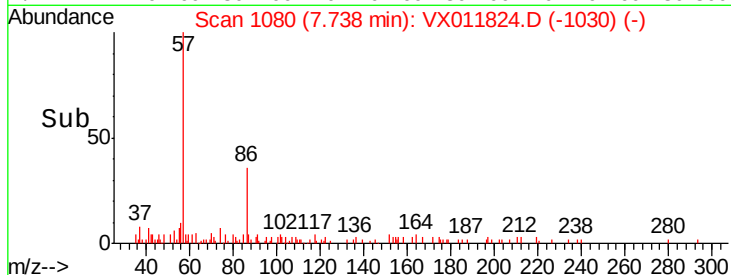
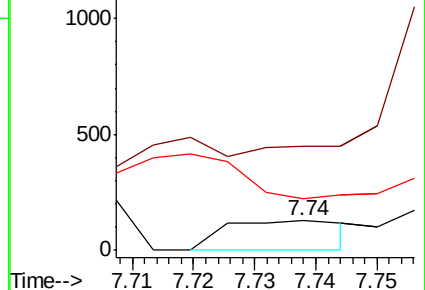
58 620.2 51.4 77.2#



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: 51.246 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011824.D

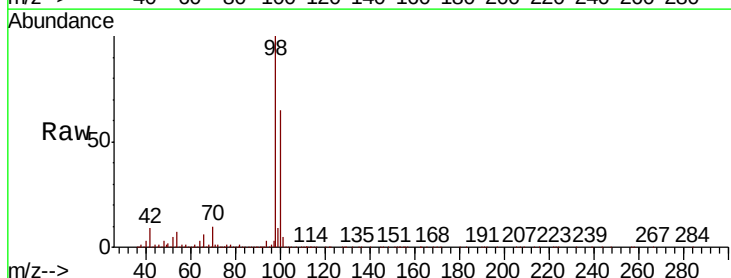
Acq: 24 Aug 2019 17:25

Tgt Ion: 98 Resp: 749122

Ion Ratio Lower Upper

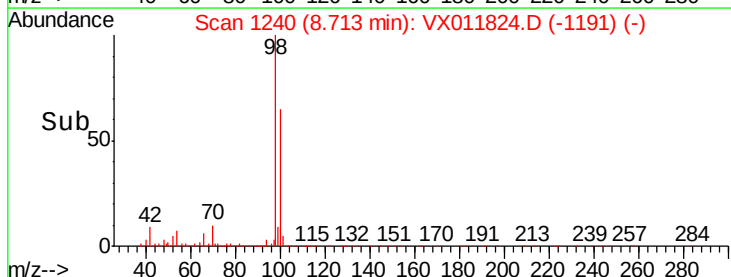
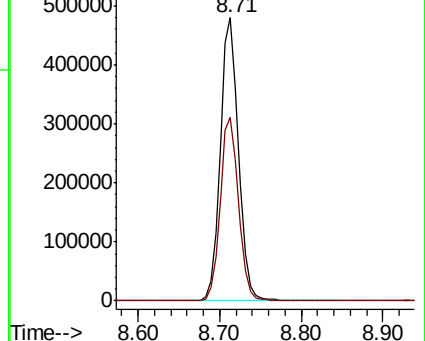
98 100

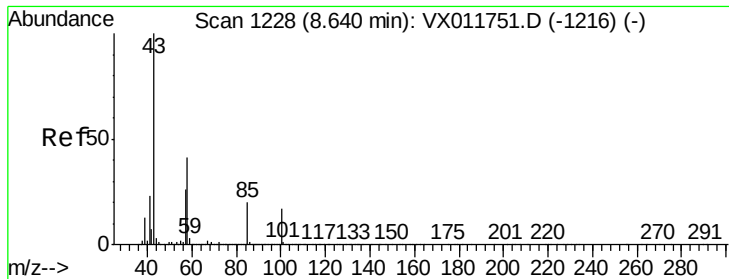
100 65.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 11.122 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

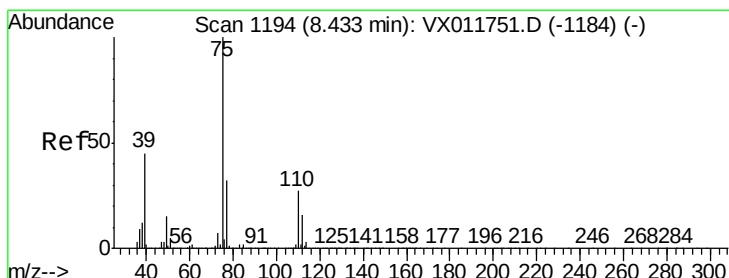
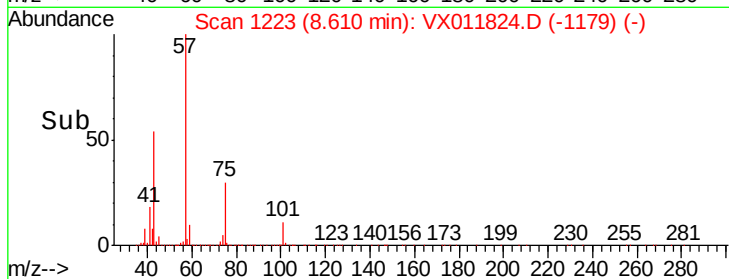
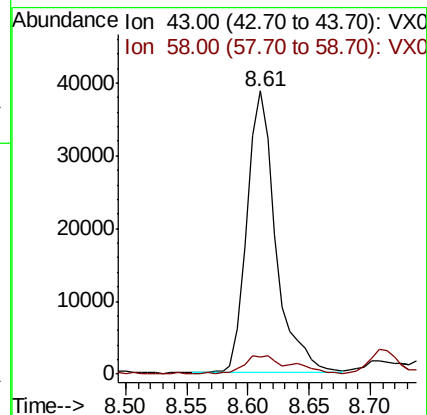
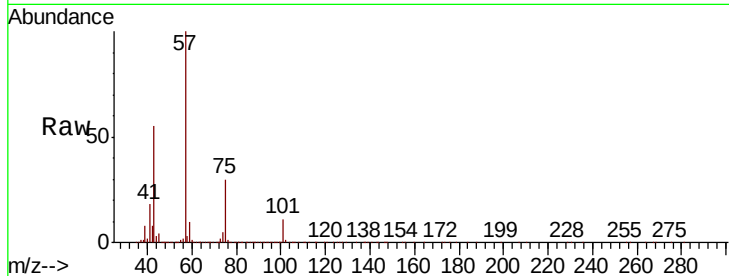
T1-2-F2-(2.5)

Tgt Ion: 43 Resp: 63796

Ion Ratio Lower Upper

43 100

58 10.9 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 5.228 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

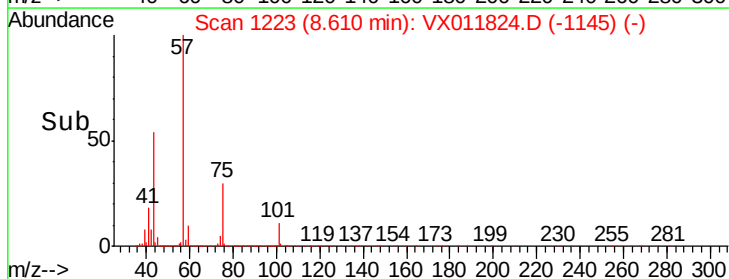
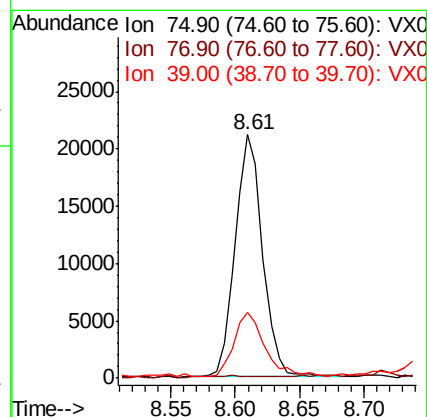
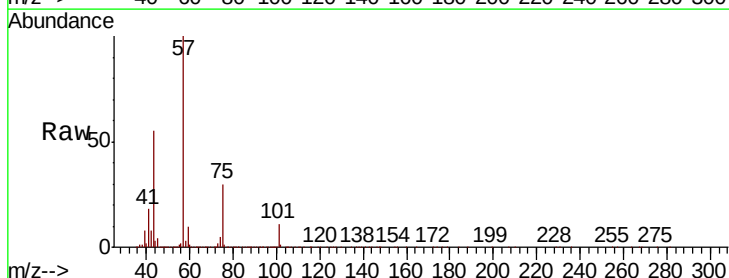
Tgt Ion: 75 Resp: 31400

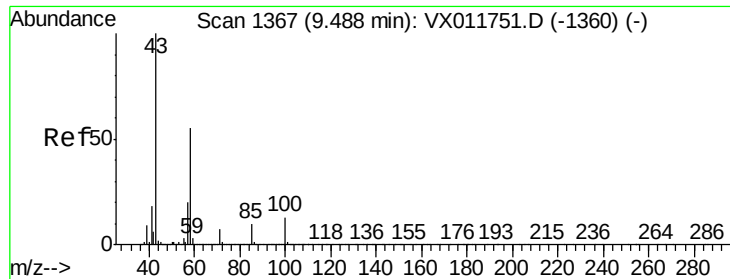
Ion Ratio Lower Upper

75 100

77 0.6 25.4 38.2#

39 26.6 36.2 54.4#

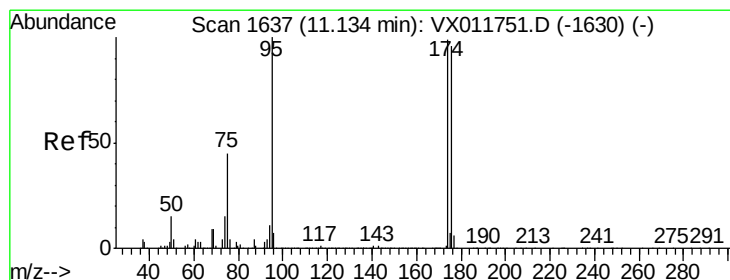
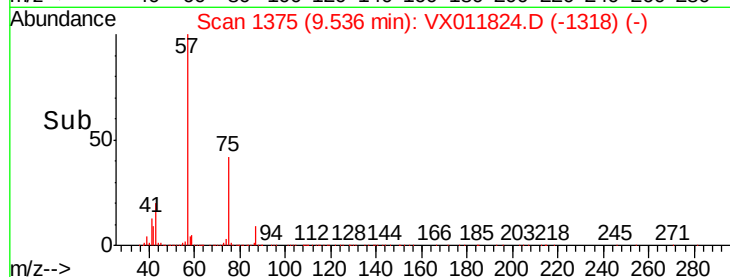
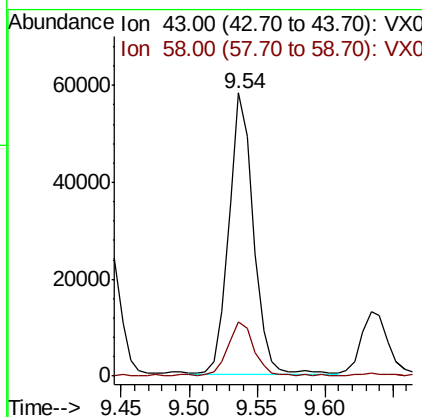
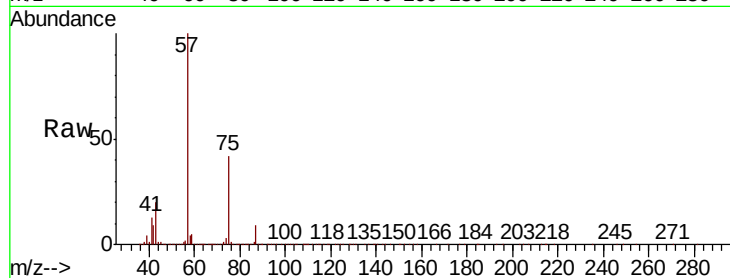




#59
2-Hexanone
Concen: 16.636 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

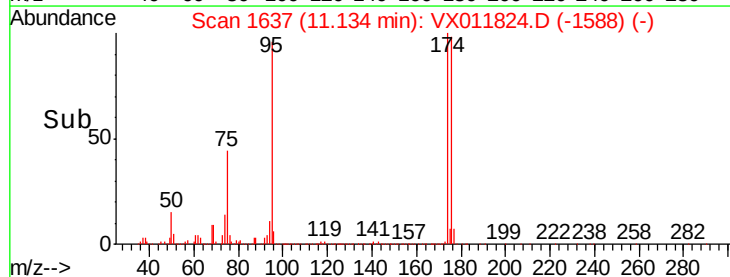
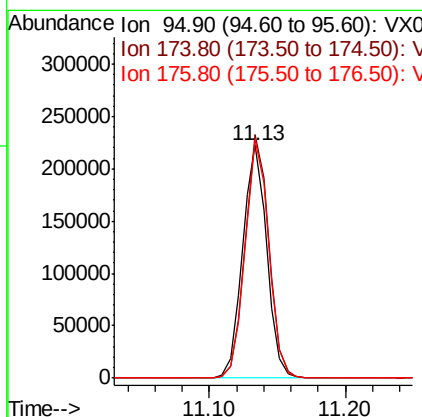
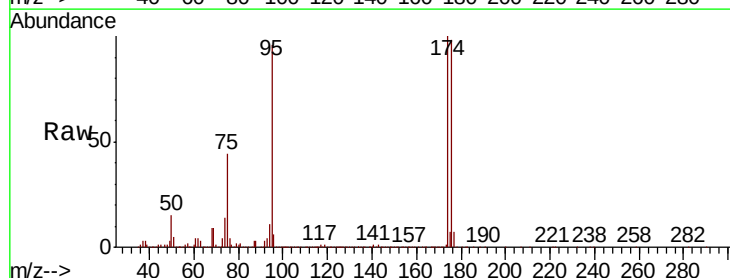
Instrument :
MSVOA_X
ClientSampleId :
T1-2-F2-(2.5)

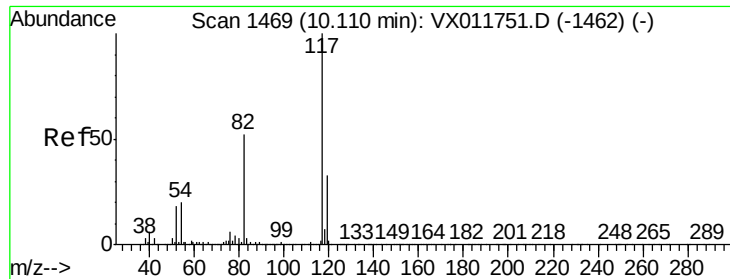
Tgt Ion: 43 Resp: 73241
Ion Ratio Lower Upper
43 100
58 19.7 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 47.538 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

Tgt Ion: 95 Resp: 274675
Ion Ratio Lower Upper
95 100
174 104.2 0.0 197.4
176 101.1 0.0 194.4

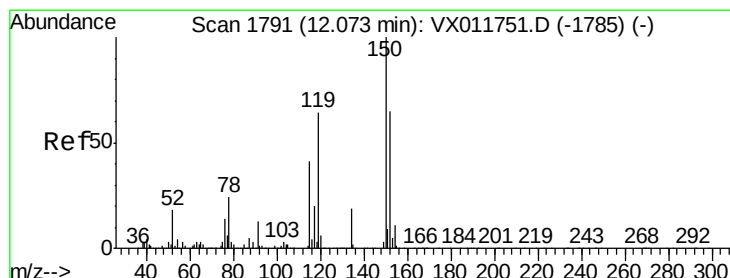
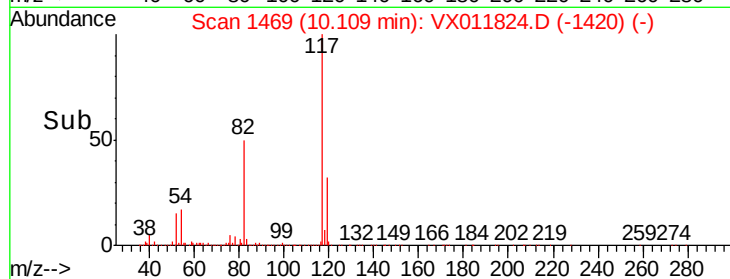
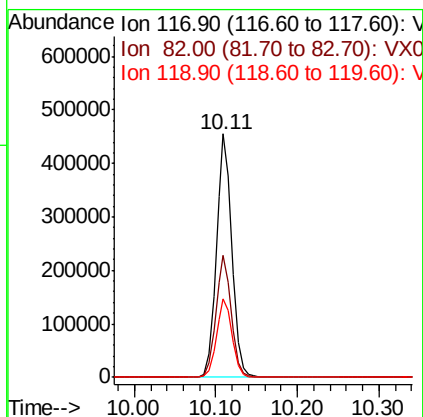
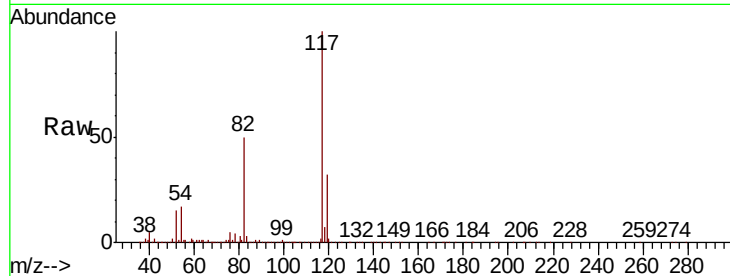




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

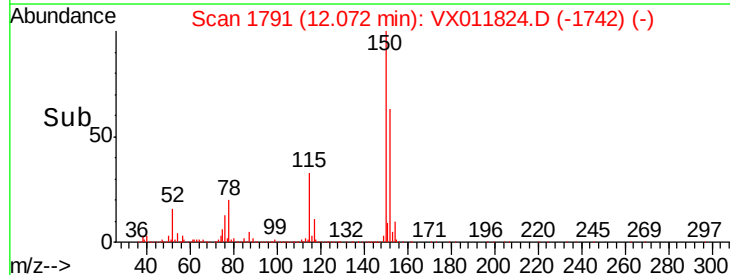
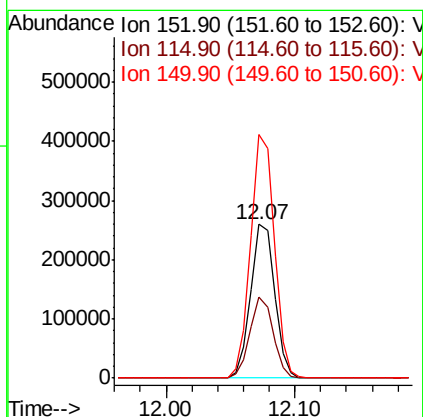
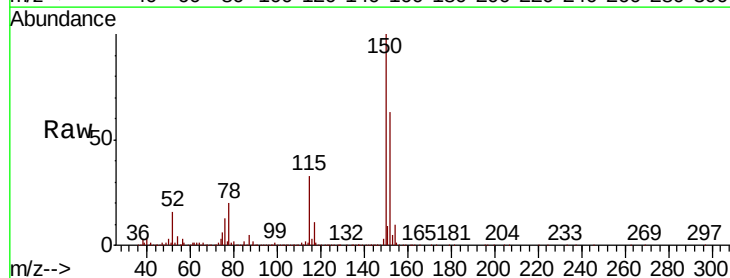
Instrument :
MSVOA_X
ClientSampleId :
T1-2-F2-(2.5)

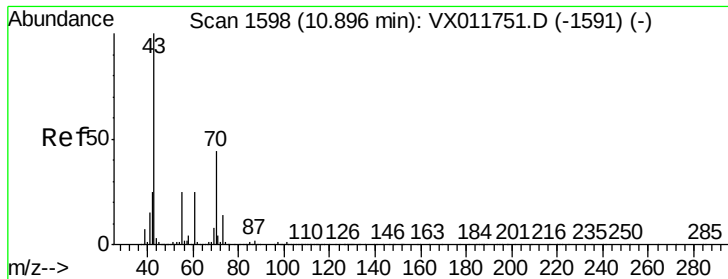
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.0	41.7	62.5
119	32.2	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX011824.D
Acq: 24 Aug 2019 17:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.2	37.3	111.8
150	156.8	0.0	343.0





#74

N-amyI acetate

Concen: 0.390 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

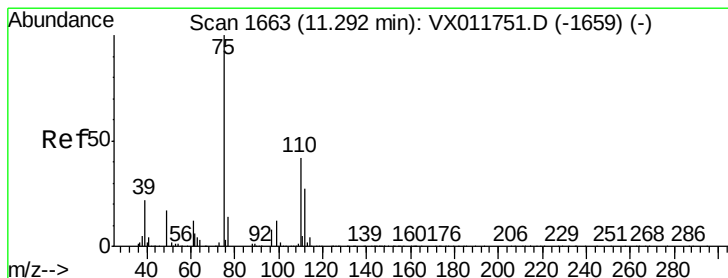
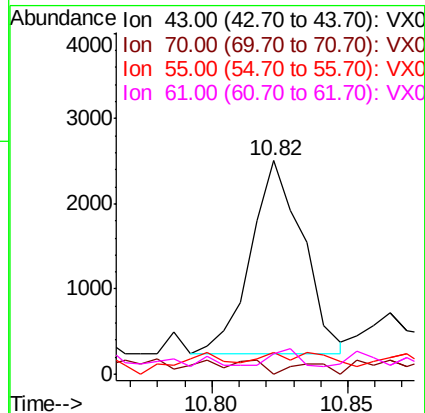
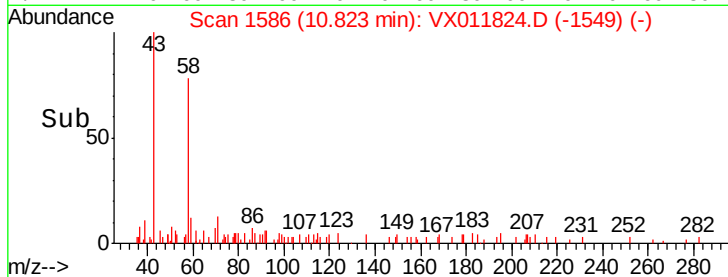
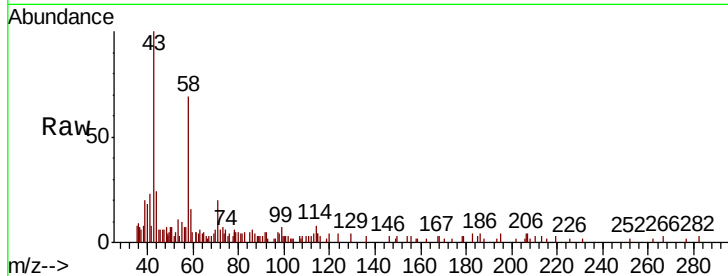
MSVOA_X

ClientSampleId :

T1-2-F2-(2.5)

Tgt Ion: 43 Resp: 3016

Ion	Ratio	Lower	Upper
43	100		
70	4.0	34.8	52.2#
55	3.7	19.5	29.3#
61	0.0	19.8	29.6#



#76

1,2,3-Trichloropropane

Concen: 21.736 ug/l

RT: 11.13 min Scan# 1637

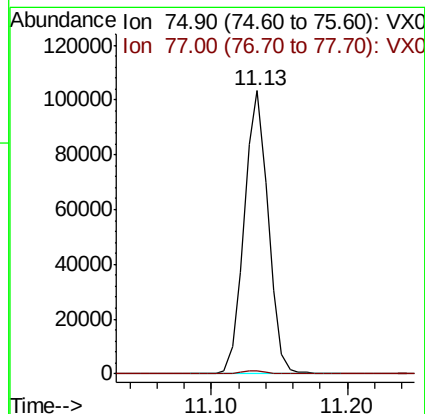
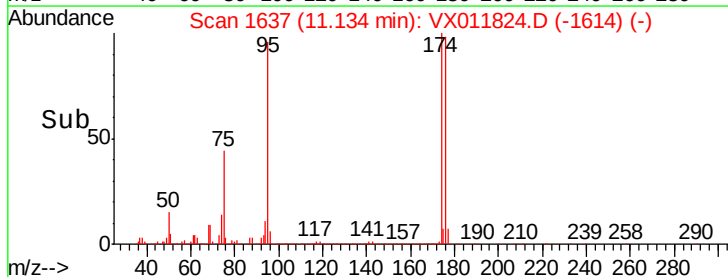
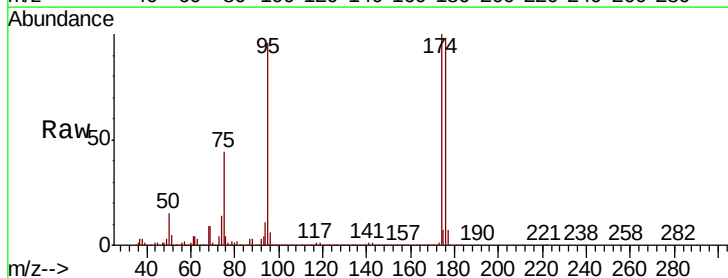
Delta R.T. -0.16 min

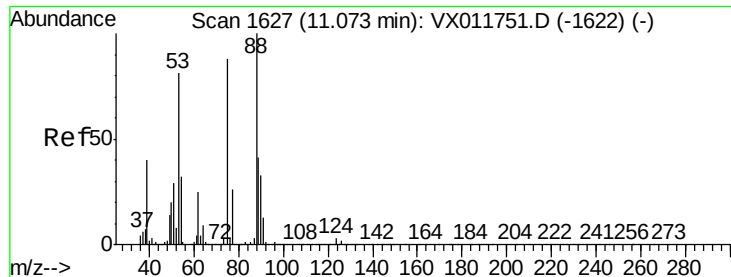
Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Tgt Ion: 75 Resp: 126417

Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.1	63.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.552 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011824.D

Acq: 24 Aug 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

T1-2-F2-(2.5)

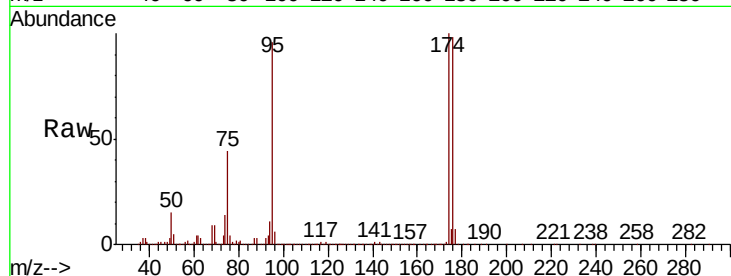
Tgt Ion: 75 Resp: 126417

Ion Ratio Lower Upper

75 100

53 0.3 77.1 115.7#

89 0.0 38.5 57.7#



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

