

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082719\
 Data File : VX011853.D
 Acq On : 27 Aug 2019 16:27
 Operator : JC/SP
 Sample : PB122565TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB122565TB

Quant Time: Aug 28 02:23:41 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	429632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	591254	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	523856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	255594	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	214568	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
35) Dibromofluoromethane	5.49	113	183946	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	8.71	98	674751	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.13	95	247467	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	

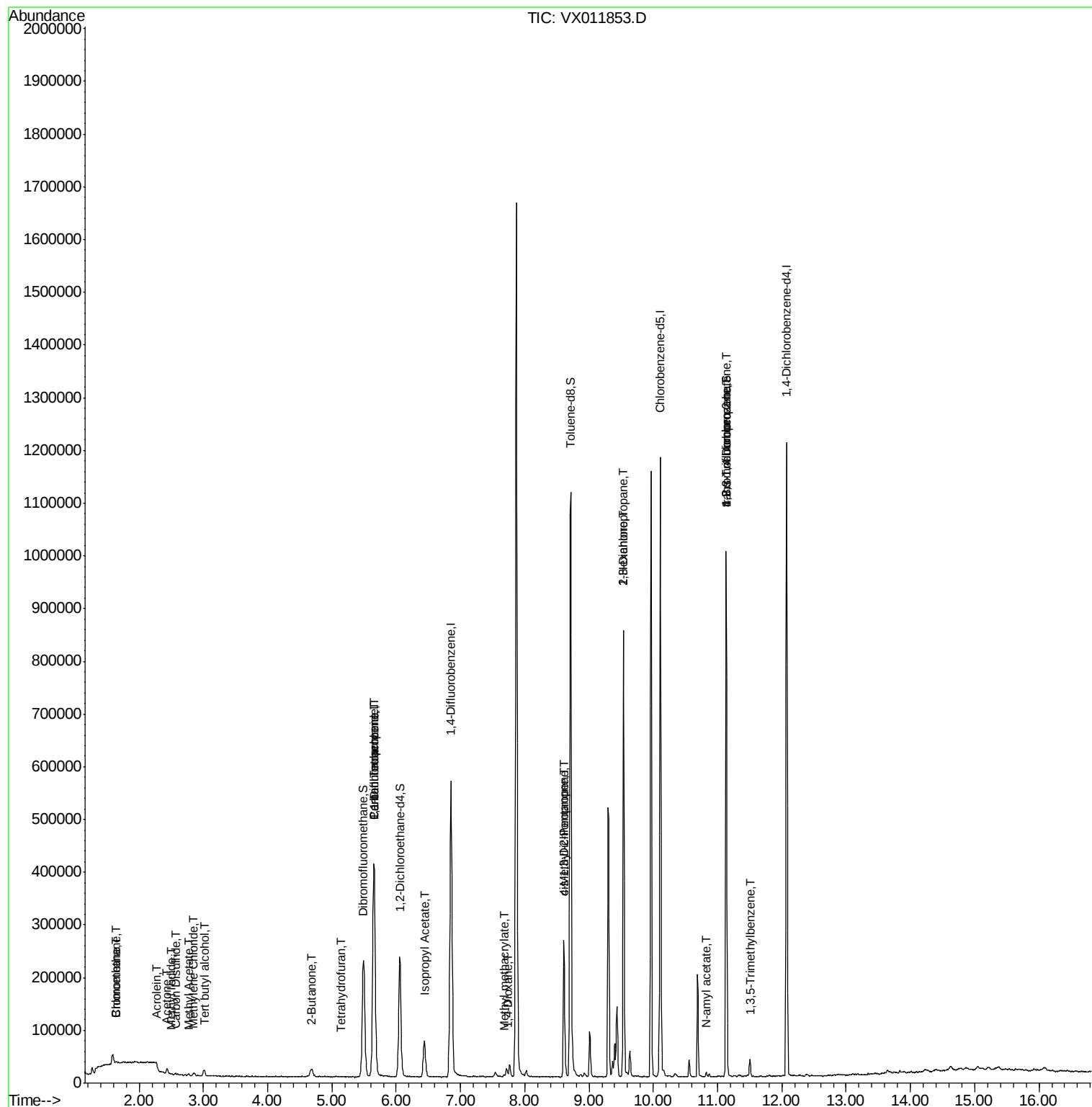
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	494	0.255	ug/l #	62
6) Chloroethane	1.64	64	425	0.207	ug/l #	77
10) Methyl Iodide	2.51	142	1031	0.244	ug/l #	57
11) Tert butyl alcohol	3.01	59	6575	7.710	ug/l #	86
13) Acrolein	2.28	56	406	1.232	ug/l #	16
16) Acetone	2.43	43	9957	5.303	ug/l	92
17) Carbon Disulfide	2.56	76	2218	0.260	ug/l	97
18) Methyl Acetate	2.77	43	3397	0.667	ug/l #	71
20) Methylene Chloride	2.85	84	2665	0.694	ug/l	90
25) 2-Butanone	4.68	43	3658	1.357	ug/l #	84
29) Tetrahydrofuran	5.14	42	1019	0.590	ug/l #	47
36) 1,1-Dichloropropene	5.65	75	27149	5.856	ug/l #	50
38) Carbon Tetrachloride	5.65	117	36683	6.981	ug/l #	15
43) Isopropyl Acetate	6.44	43	97053	12.221	ug/l	98
48) Methyl methacrylate	7.68	41	5226	1.322	ug/l #	15
49) 1,4-Dioxane	7.74	88	46	0.420	ug/l #	26
51) 4-Methyl-2-Pentanone	8.61	43	92334	17.645	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	42506	7.757	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	7413	1.187	ug/l #	45
59) 2-Hexanone	9.54	43	101102	25.173	ug/l #	49
74) N-amyl acetate	10.82	43	4333	0.727	ug/l #	45
76) 1,2,3-Trichloropropane	11.13	75	122443	27.301	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	13374	1.041	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	122443	82.335	ug/l #	11

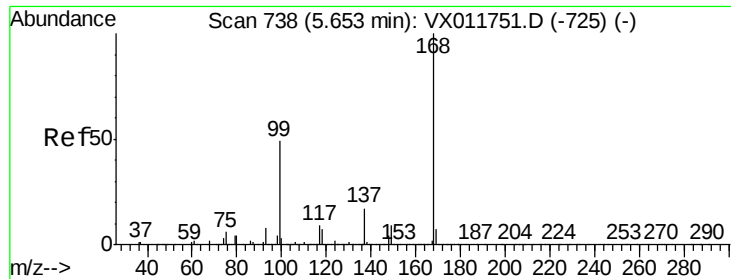
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 28 02:23:41 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

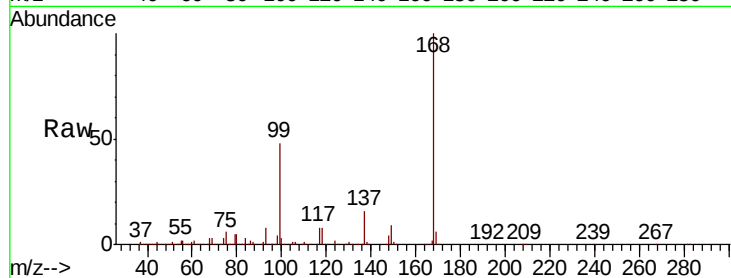
PB122565TB

Tgt Ion:168 Resp: 429632

Ion Ratio Lower Upper

168 100

99 48.4 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

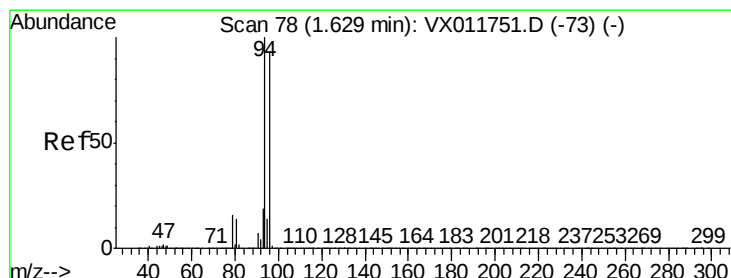
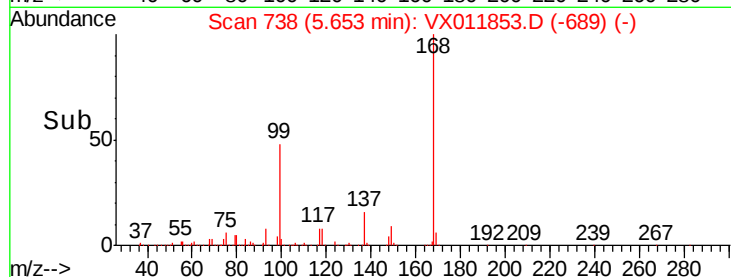
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.255 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011853.D

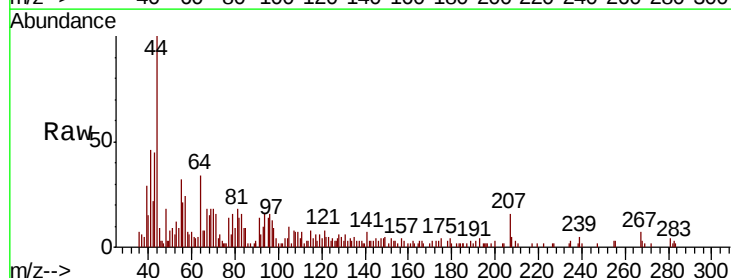
Acq: 27 Aug 2019 16:27

Tgt Ion: 94 Resp: 494

Ion Ratio Lower Upper

94 100

96 55.8 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

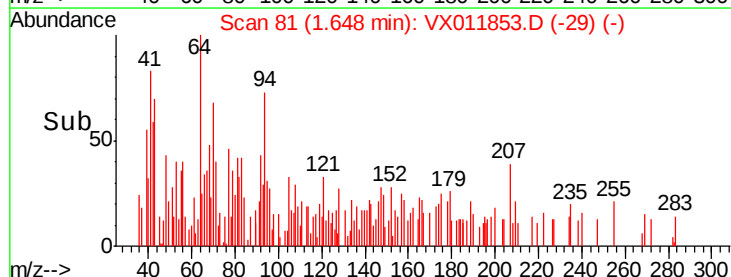
400

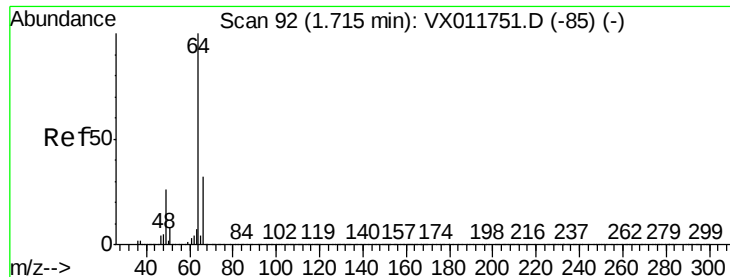
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.207 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

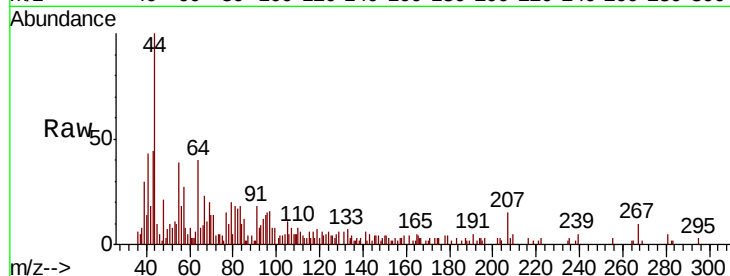
PB122565TB

Tgt Ion: 64 Resp: 425

Ion Ratio Lower Upper

64 100

66 43.8 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

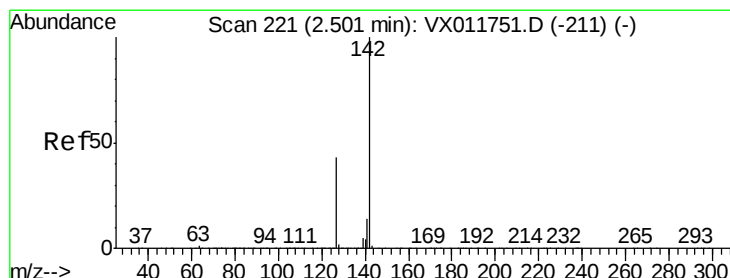
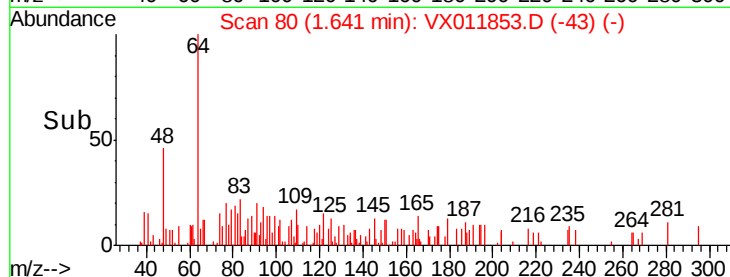
1.64

1000

500

0

Time-->



#10

Methyl Iodide

Concen: 0.244 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

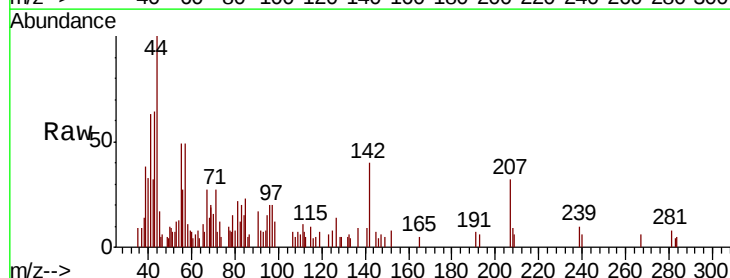
Tgt Ion: 142 Resp: 1031

Ion Ratio Lower Upper

142 100

127 15.0 33.5 50.3#

141 32.5 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

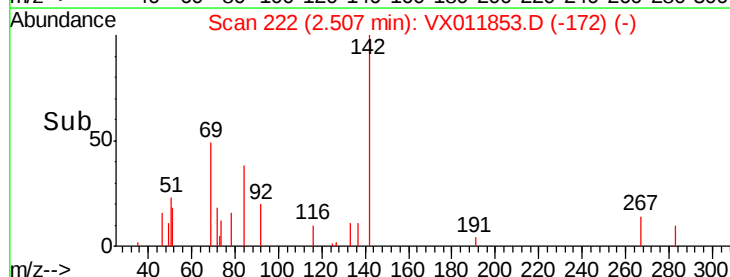
600

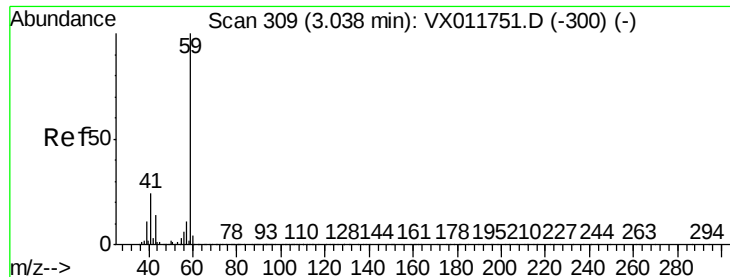
400

200

0

Time-->

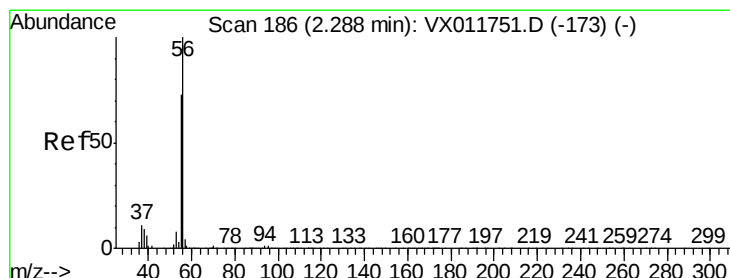
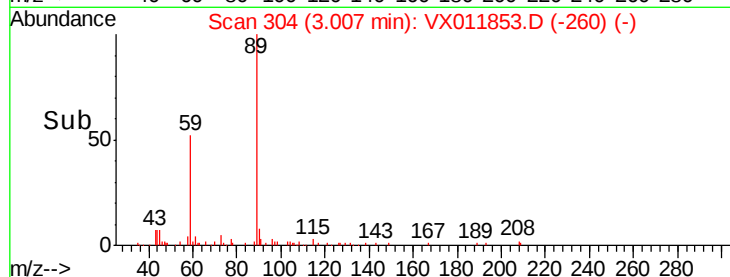
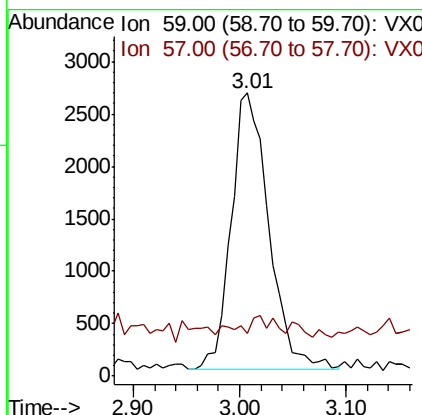
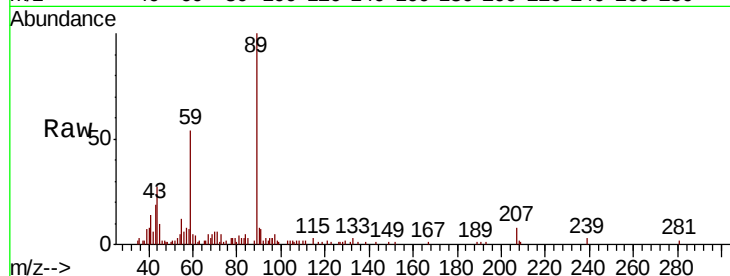




#11
Tert butyl alcohol
Concen: 7.710 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

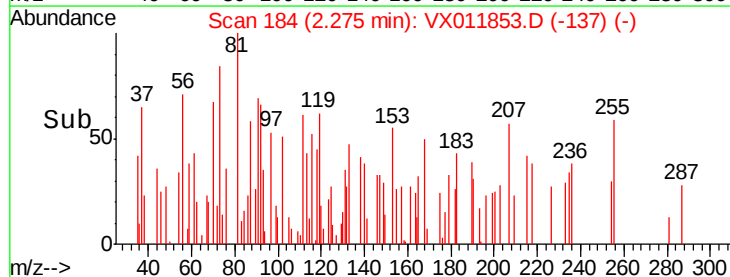
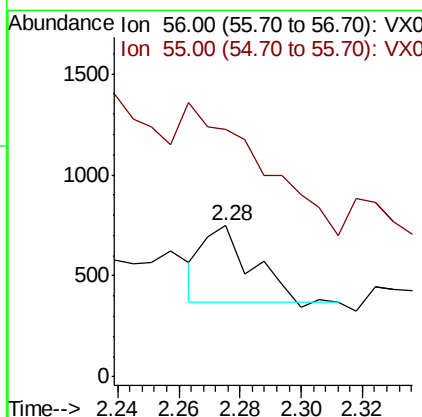
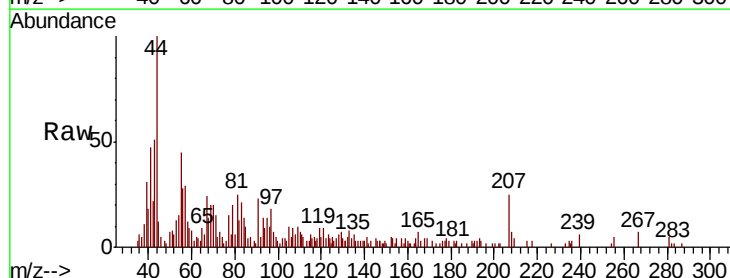
Instrument :
MSVOA_X
ClientSampleId :
PB122565TB

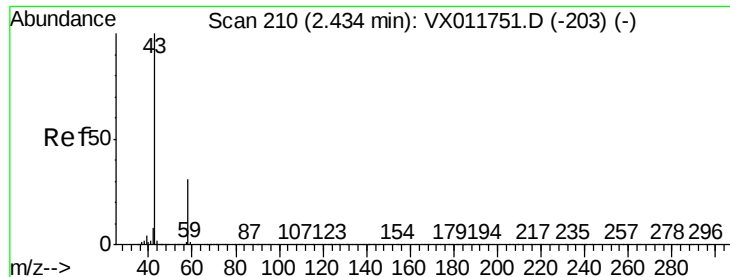
Tgt Ion: 59 Resp: 6575
Ion Ratio Lower Upper
59 100
57 5.4 8.4 12.6#



#13
Acrolein
Concen: 1.232 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.01 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

Tgt Ion: 56 Resp: 406
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#





#16

Acetone

Concen: 5.303 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

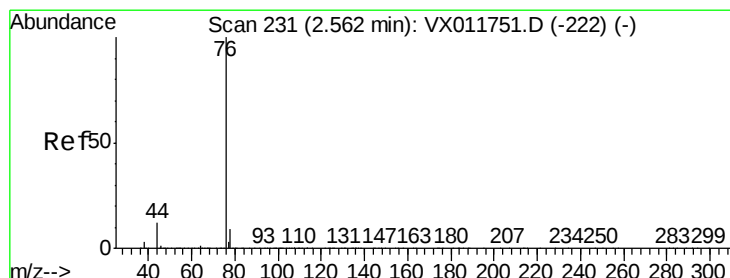
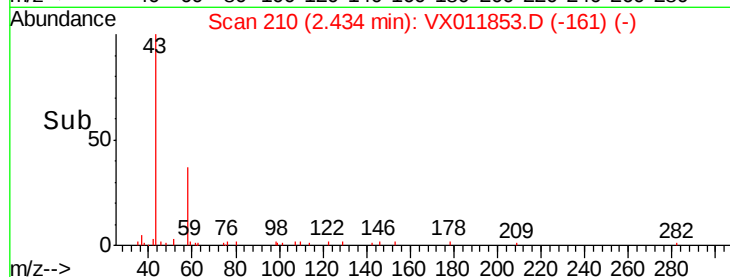
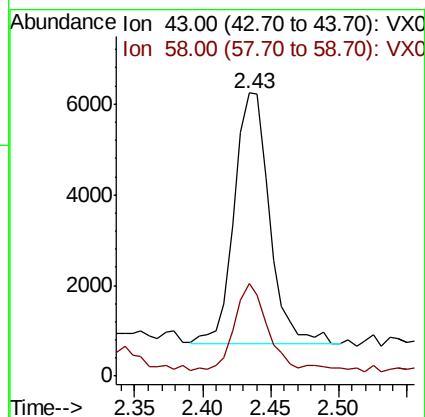
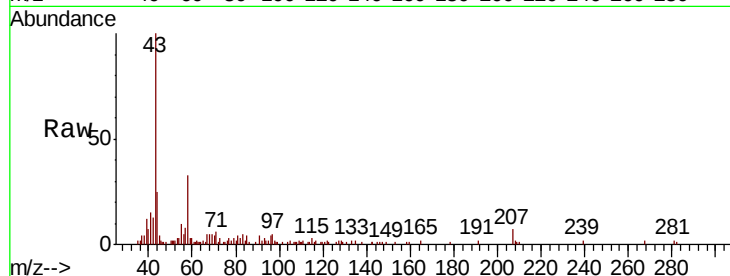
PB122565TB

Tgt Ion: 43 Resp: 9957

Ion Ratio Lower Upper

43 100

58 34.9 24.4 36.6



#17

Carbon Disulfide

Concen: 0.260 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011853.D

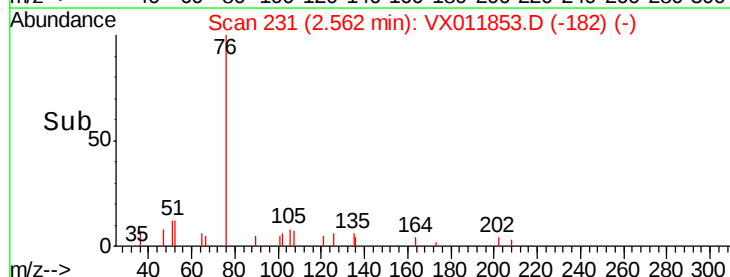
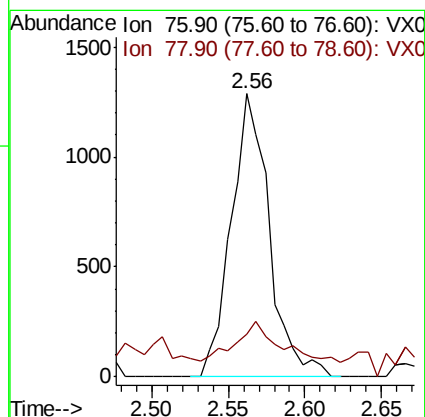
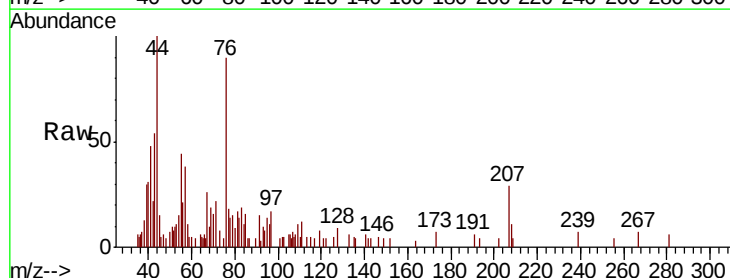
Acq: 27 Aug 2019 16:27

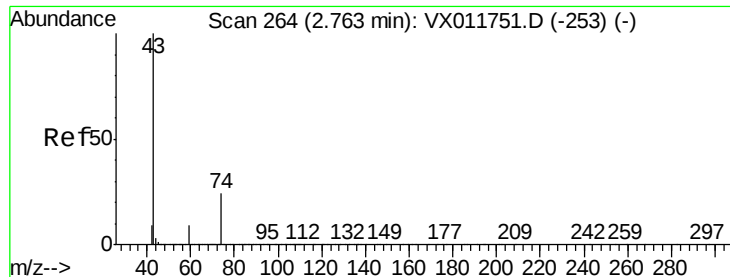
Tgt Ion: 76 Resp: 2218

Ion Ratio Lower Upper

76 100

78 10.3 7.4 11.0





#18

Methyl Acetate

Concen: 0.667 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

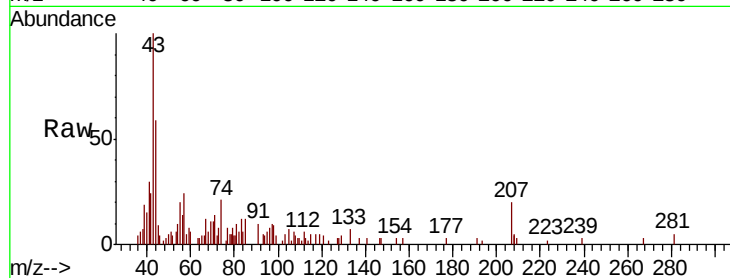
PB122565TB

Tgt Ion: 43 Resp: 3397

Ion Ratio Lower Upper

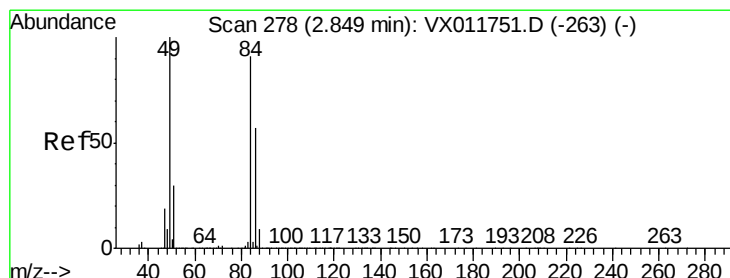
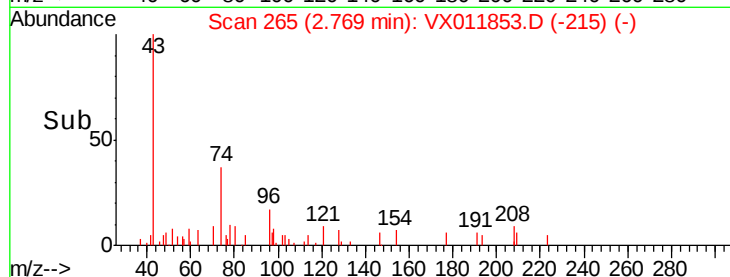
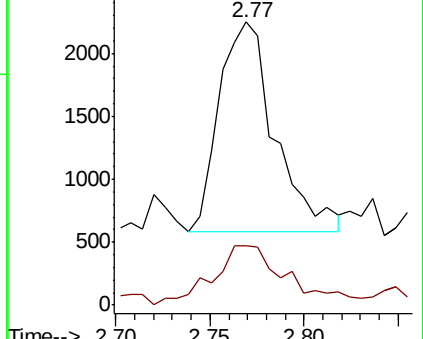
43 100

74 38.7 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.694 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Tgt Ion: 84 Resp: 2665

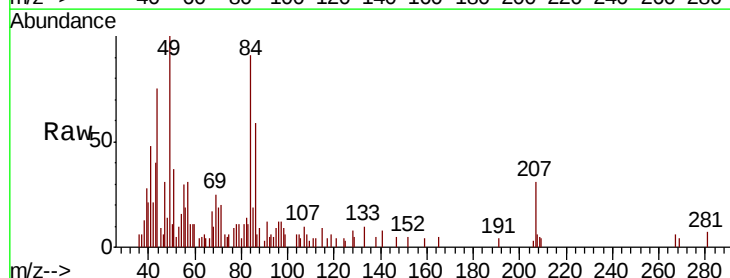
Ion Ratio Lower Upper

84 100

49 121.6 88.3 132.5

51 38.1 26.2 39.2

86 71.2 50.6 76.0

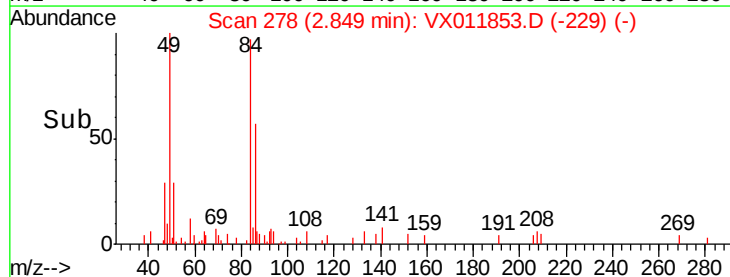
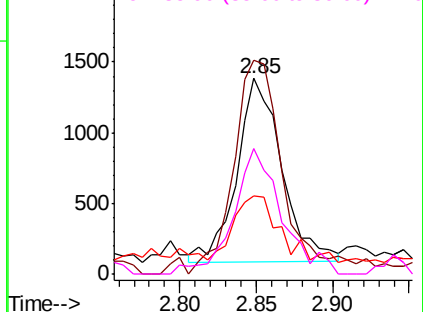


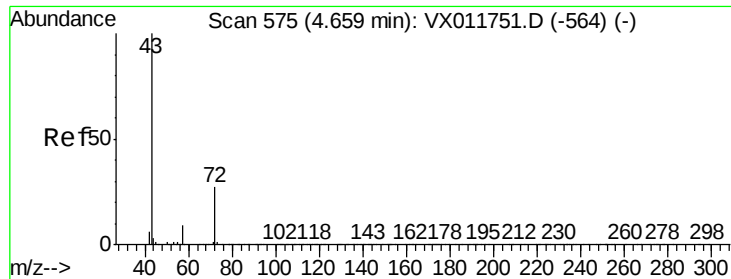
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.357 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.02 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

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ClientSampleId :

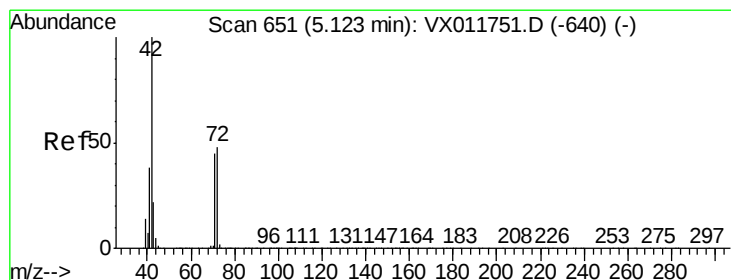
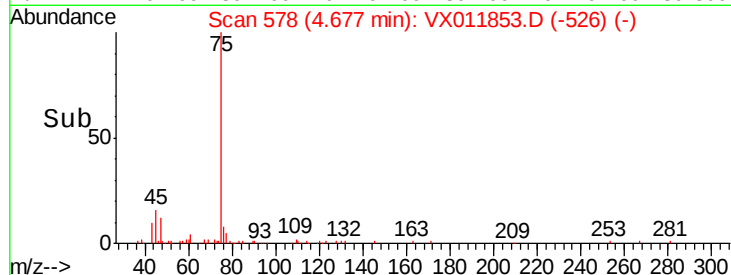
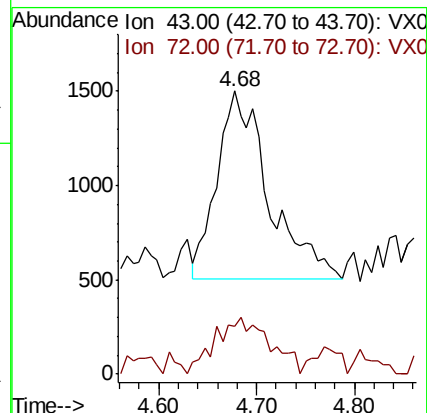
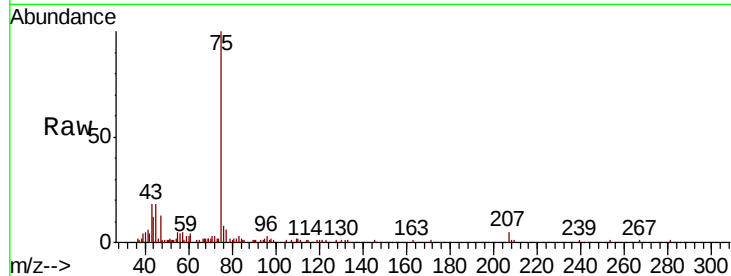
PB122565TB

Tgt Ion: 43 Resp: 3658

Ion Ratio Lower Upper

43 100

72 18.9 21.8 32.6#



#29

Tetrahydrofuran

Concen: 0.590 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.02 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

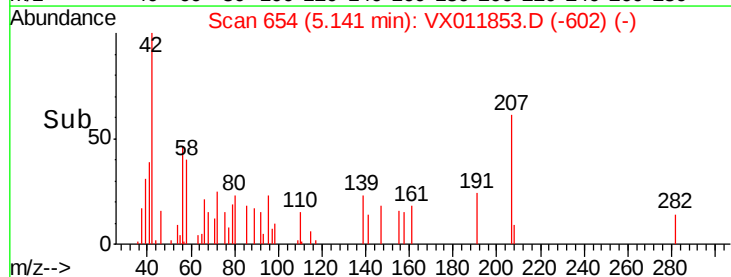
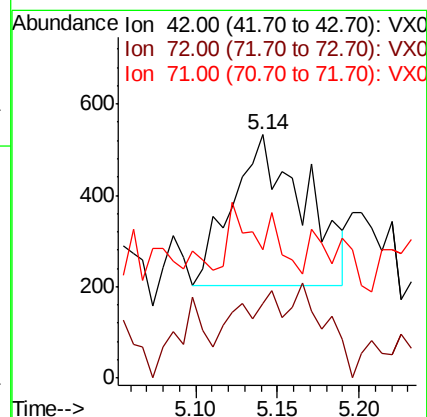
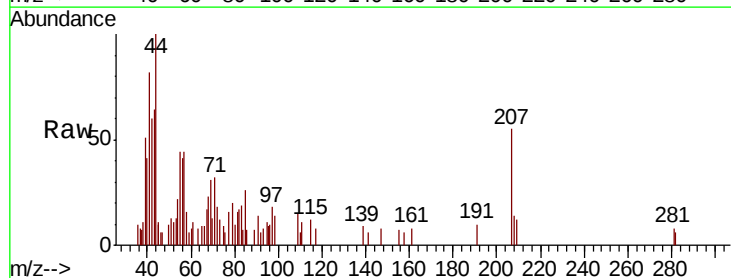
Tgt Ion: 42 Resp: 1019

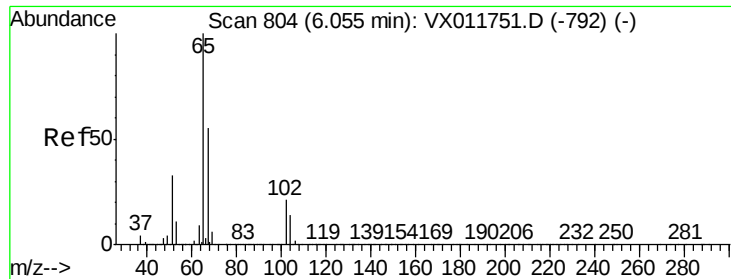
Ion Ratio Lower Upper

42 100

72 20.5 37.6 56.4#

71 0.0 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 49.716 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

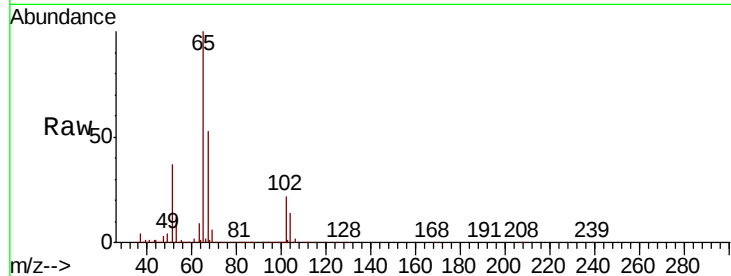
PB122565TB

Tgt Ion: 65 Resp: 214568

Ion Ratio Lower Upper

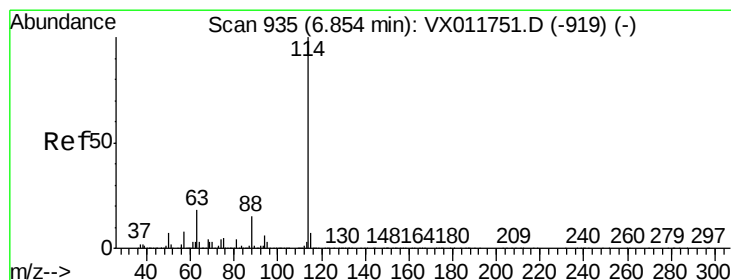
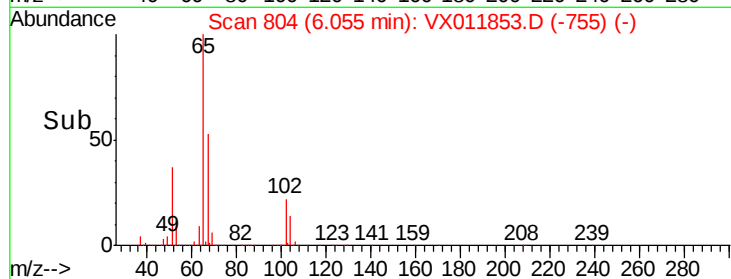
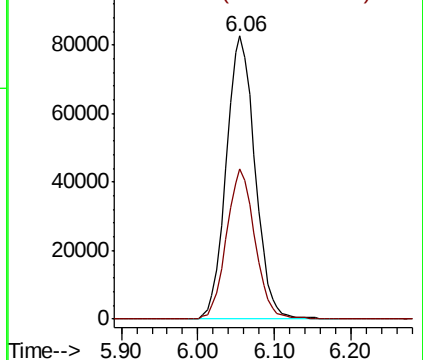
65 100

67 51.8 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

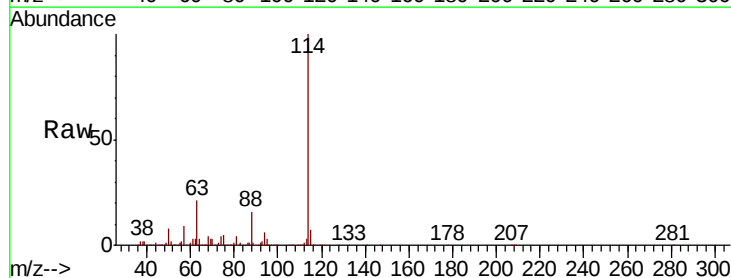
Tgt Ion: 114 Resp: 591254

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.8

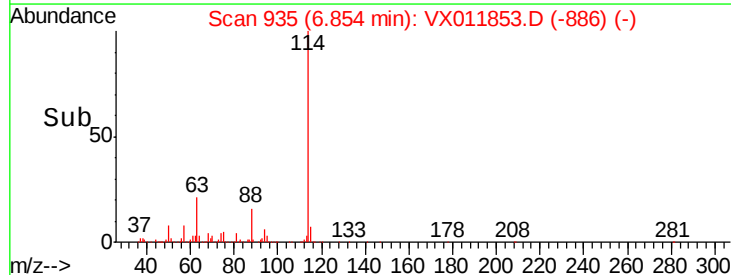
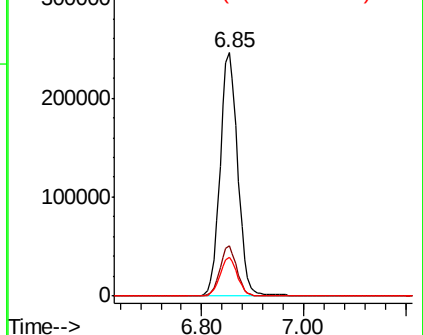
88 16.0 0.0 30.2

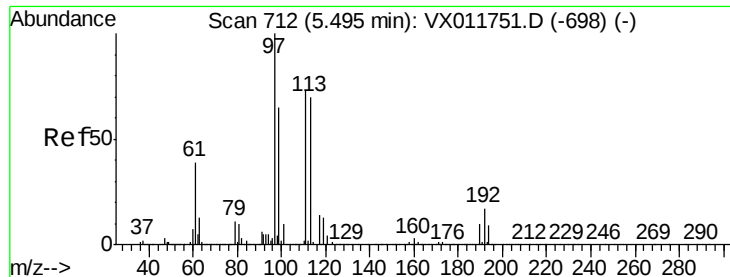


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

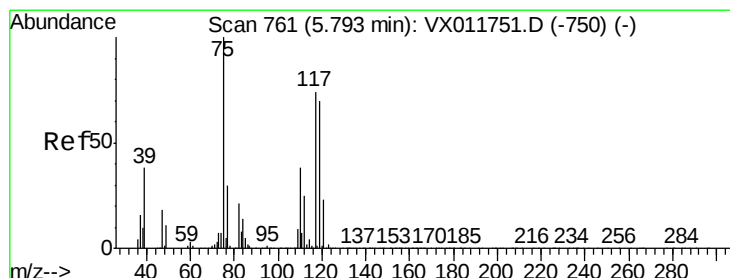
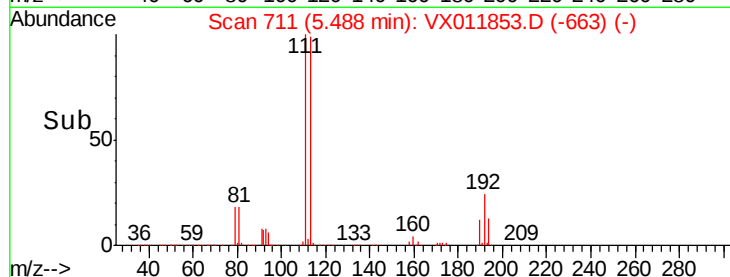
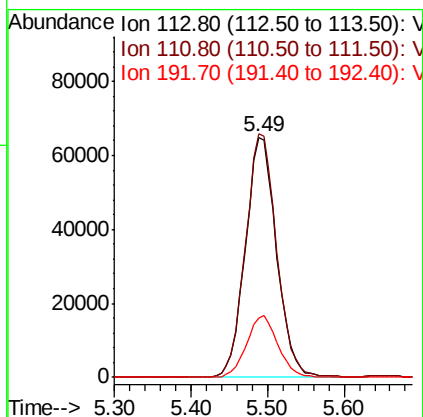
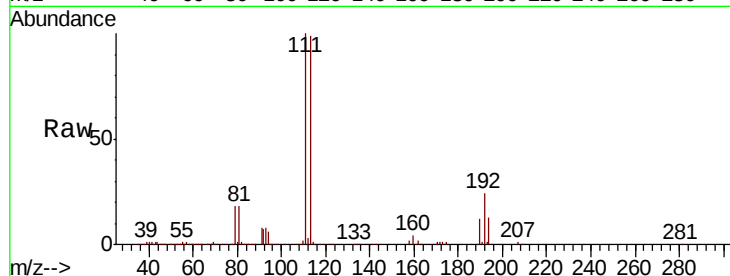




#35
 Dibromofluoromethane
 Concen: 48.112 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011853.D
 Acq: 27 Aug 2019 16:27

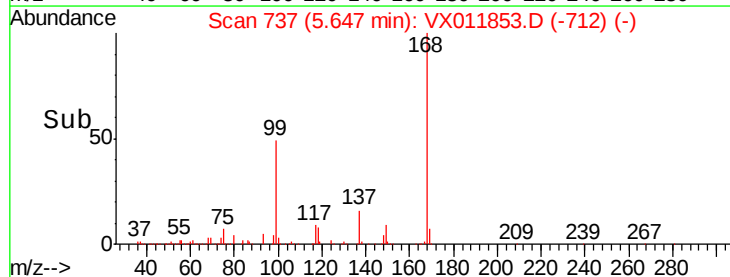
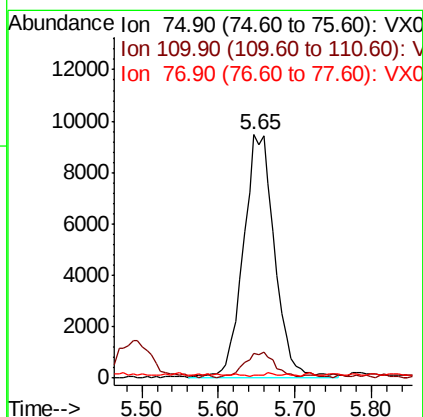
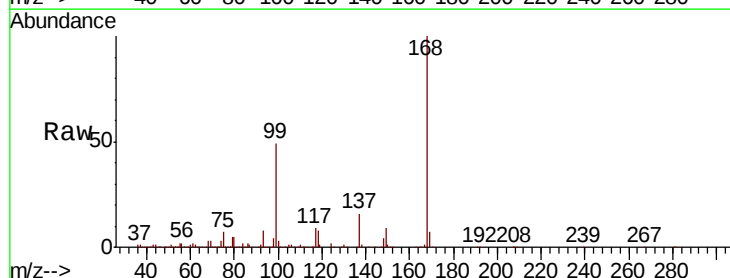
Instrument :
 MSVOA_X
 ClientSampleId :
 PB122565TB

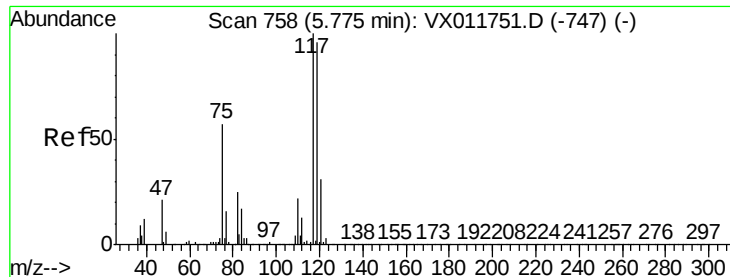
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.0	121.4
192	25.9	19.9	29.9



#36
 1,1-Dichloropropene
 Concen: 5.856 ug/l
 RT: 5.65 min Scan# 737
 Delta R.T. -0.15 min
 Lab File: VX011853.D
 Acq: 27 Aug 2019 16:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	19.0	57.0#
77	0.5	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.981 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

PB122565TB

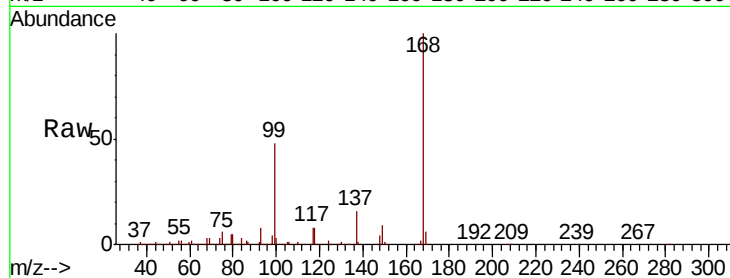
Tgt Ion:117 Resp: 36683

Ion Ratio Lower Upper

117 100

119 4.4 76.6 114.8#

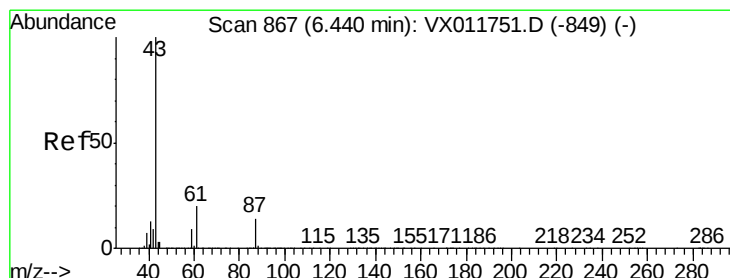
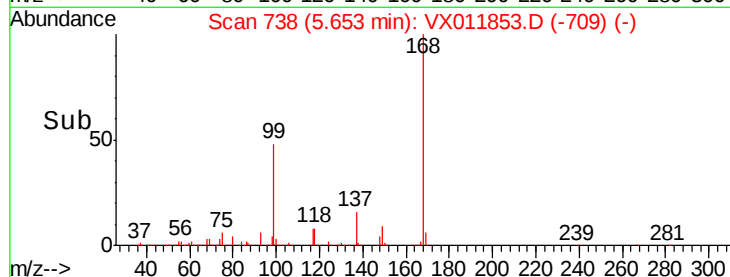
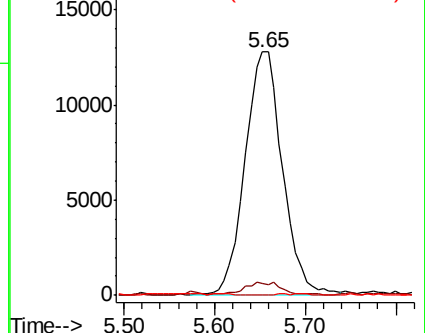
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.221 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

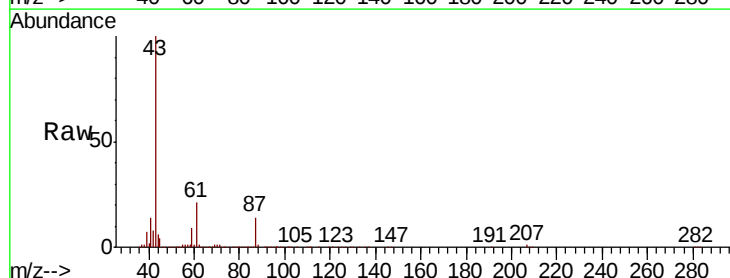
Tgt Ion: 43 Resp: 97053

Ion Ratio Lower Upper

43 100

61 20.0 16.2 24.2

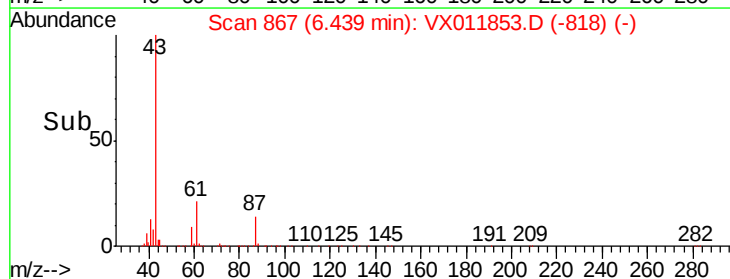
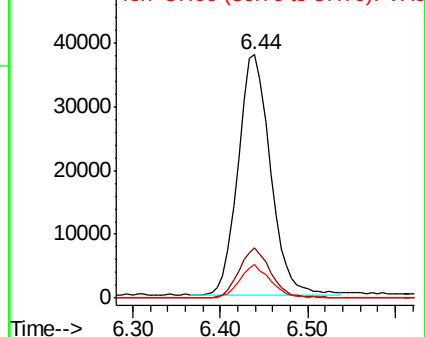
87 13.1 11.6 17.4

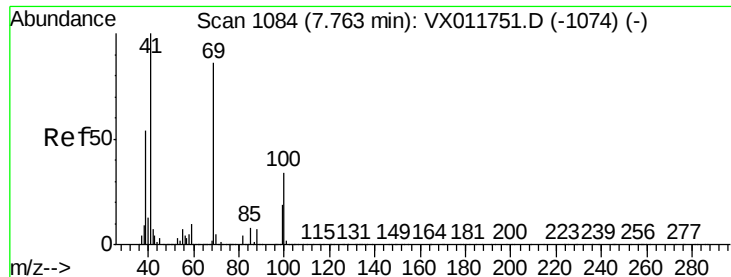


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

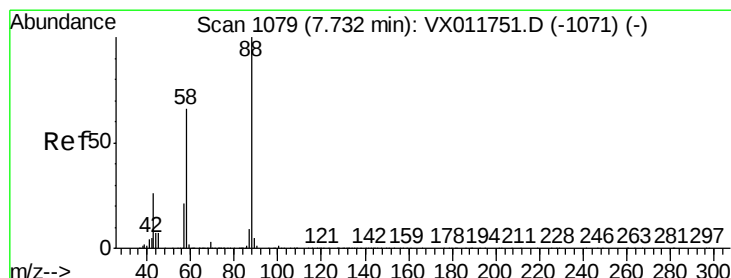
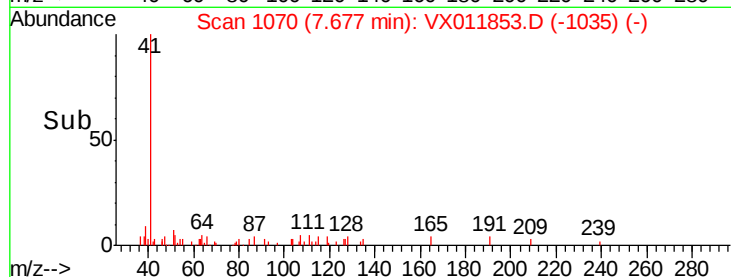
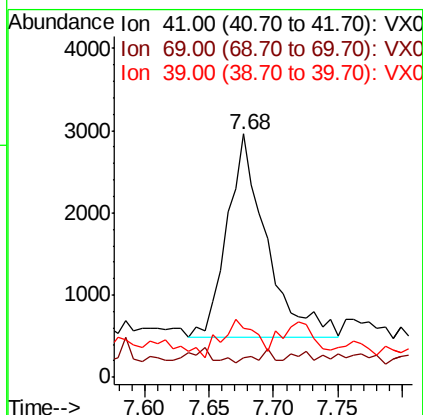
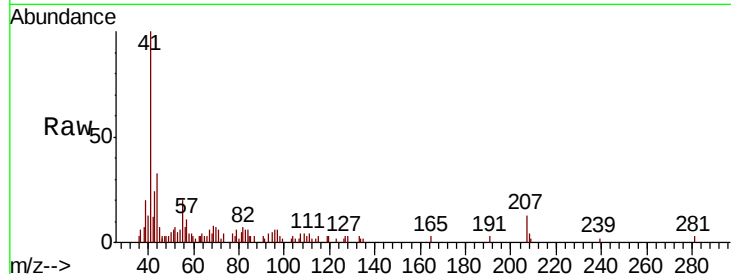




#48
Methyl methacrylate
Concen: 1.322 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

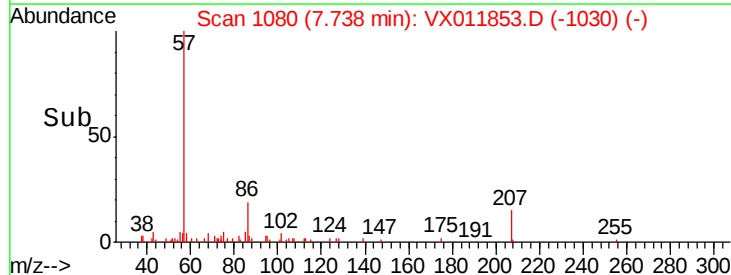
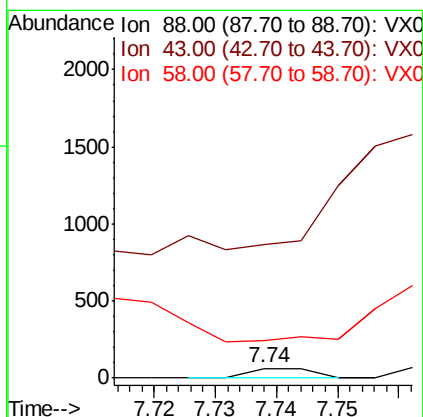
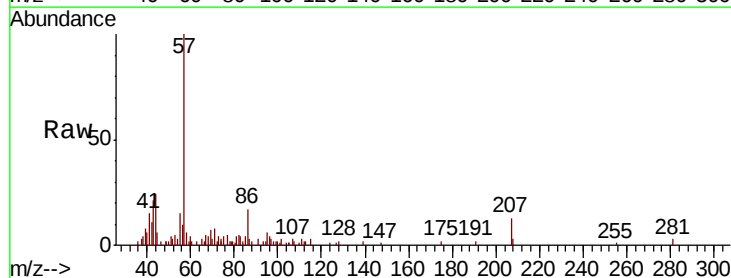
Instrument :
MSVOA_X
ClientSampleId :
PB122565TB

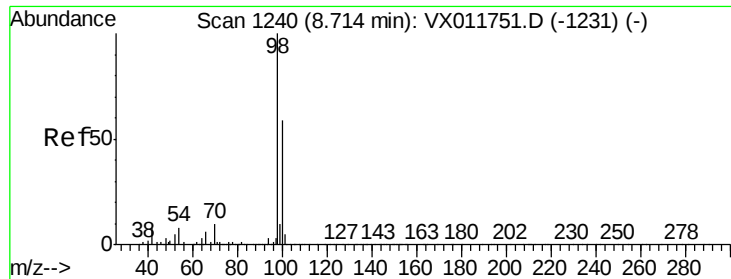
Tgt Ion: 41 Resp: 5226
Ion Ratio Lower Upper
41 100
69 2.8 69.4 104.2#
39 0.0 43.6 65.4#



#49
1,4-Dioxane
Concen: 0.420 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

Tgt Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 0.0 51.4 77.2#





#50

Toluene-d8

Concen: 50.597 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

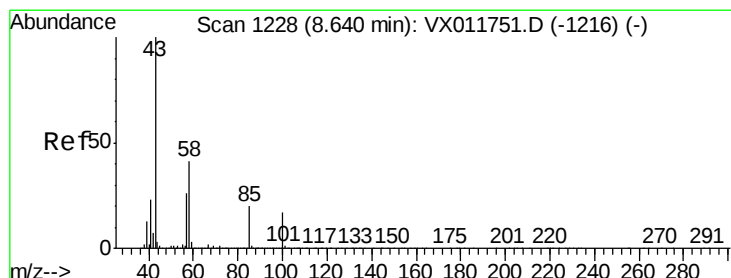
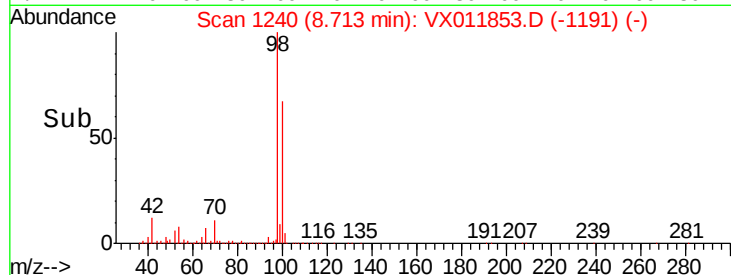
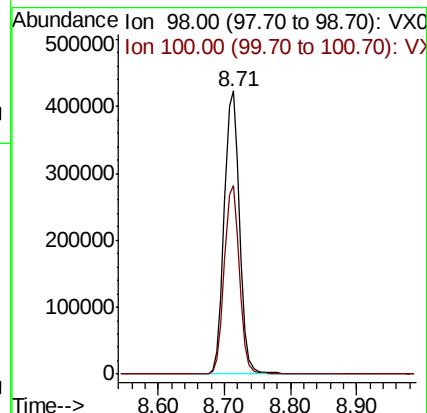
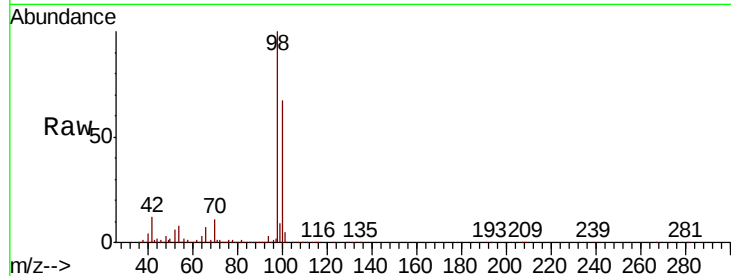
PB122565TB

Tgt Ion: 98 Resp: 674751

Ion Ratio Lower Upper

98 100

100 66.1 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 17.645 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011853.D

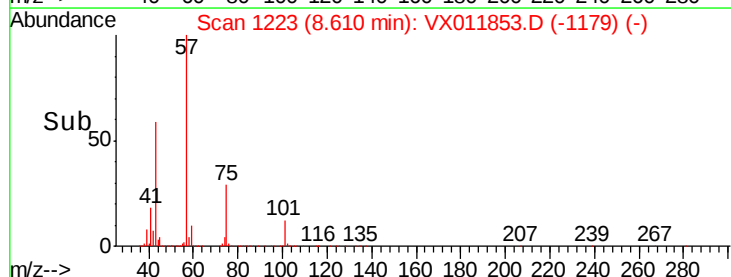
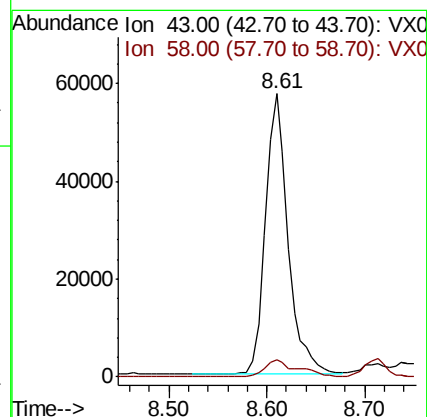
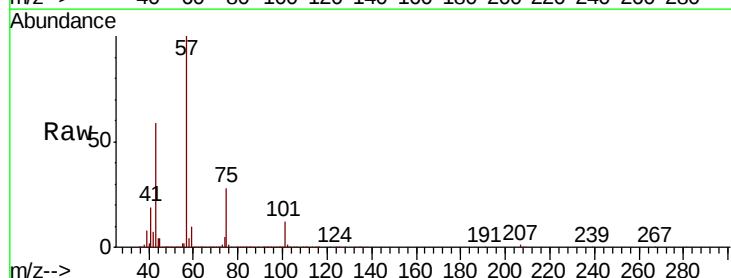
Acq: 27 Aug 2019 16:27

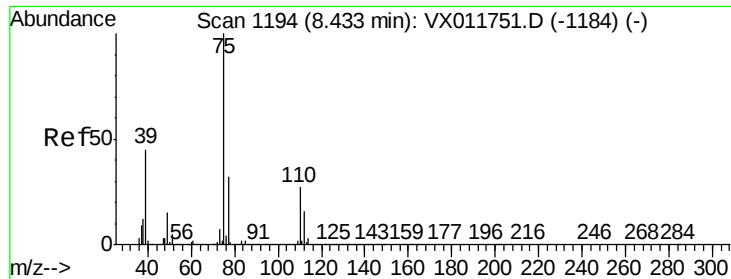
Tgt Ion: 43 Resp: 92334

Ion Ratio Lower Upper

43 100

58 8.0 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 7.757 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

PB122565TB

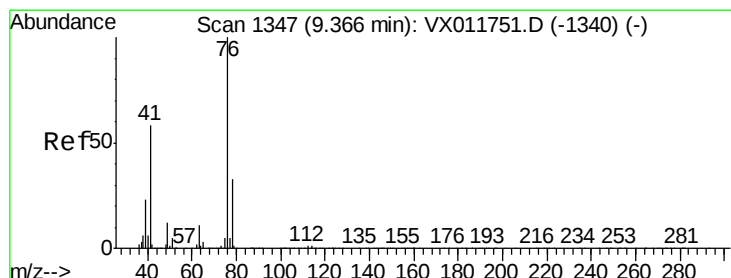
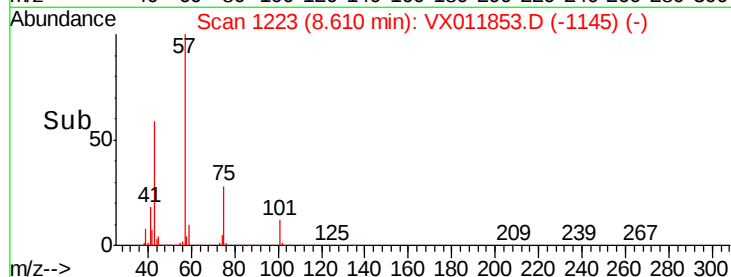
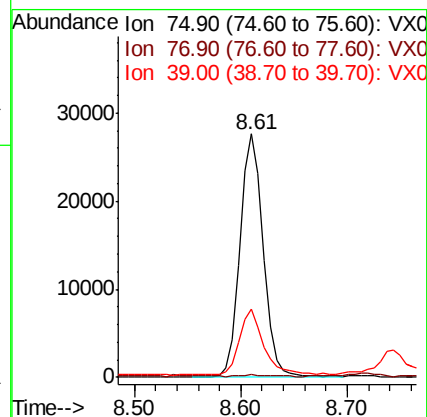
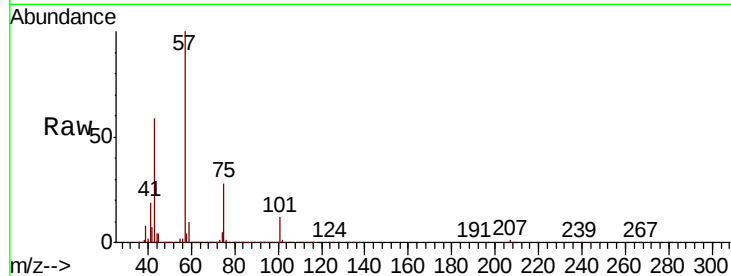
Tgt Ion: 75 Resp: 42506

Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.2#

39 26.8 36.2 54.4#



#57

1,3-Dichloropropane

Concen: 1.187 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011853.D

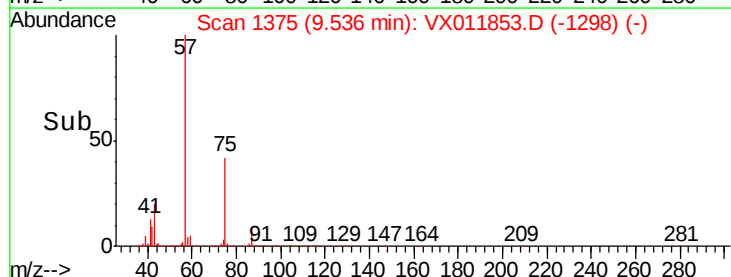
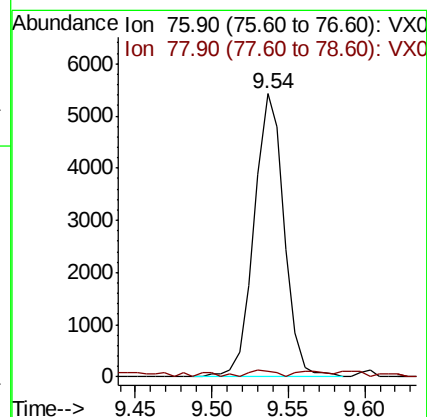
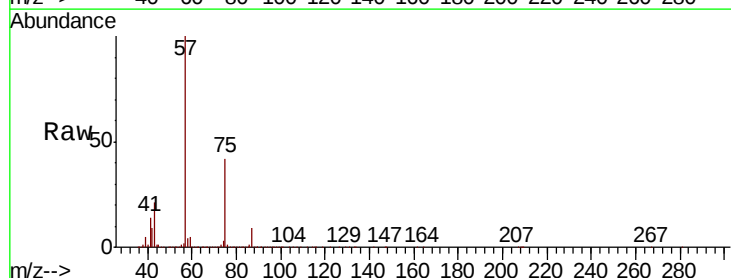
Acq: 27 Aug 2019 16:27

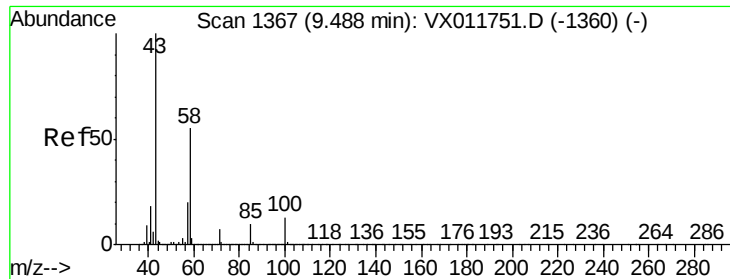
Tgt Ion: 76 Resp: 7413

Ion Ratio Lower Upper

76 100

78 1.9 26.6 39.8#

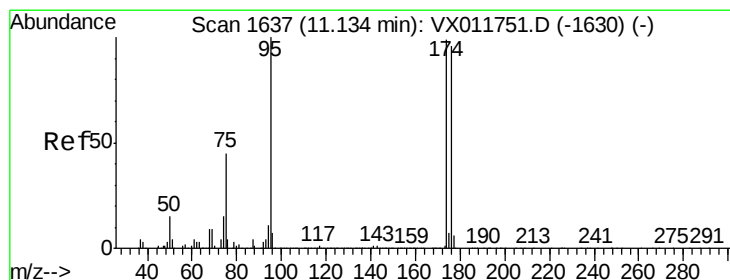
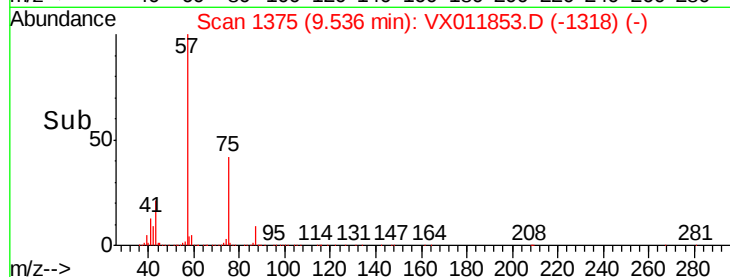
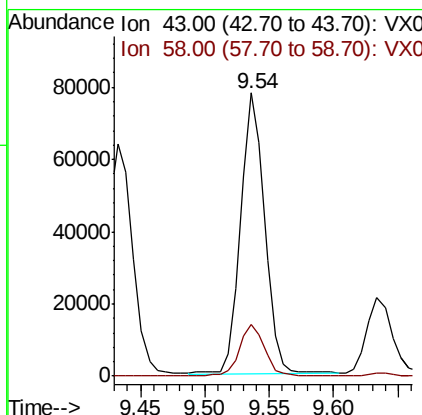
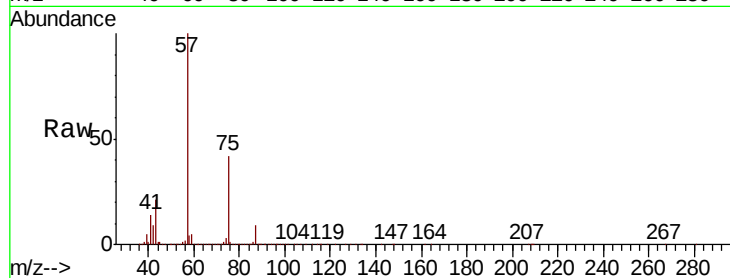




#59
2-Hexanone
Concen: 25.173 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

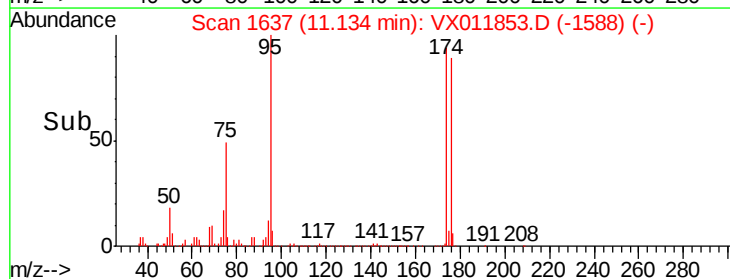
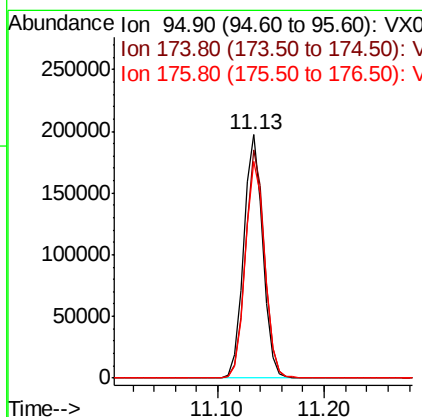
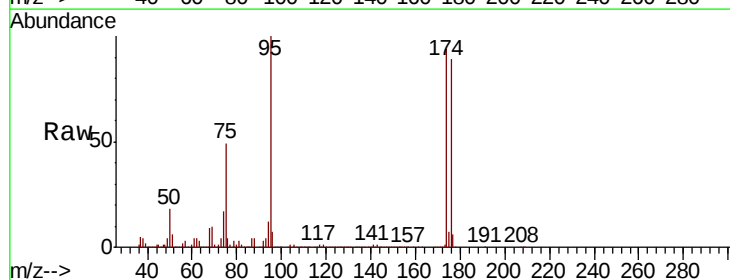
Instrument :
MSVOA_X
ClientSampleId :
PB122565TB

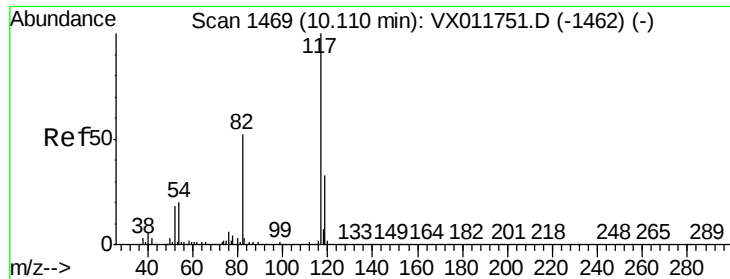
Tgt Ion: 43 Resp: 101102
Ion Ratio Lower Upper
43 100
58 18.7 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 46.948 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

Tgt Ion: 95 Resp: 247467
Ion Ratio Lower Upper
95 100
174 94.3 0.0 197.4
176 91.3 0.0 194.4

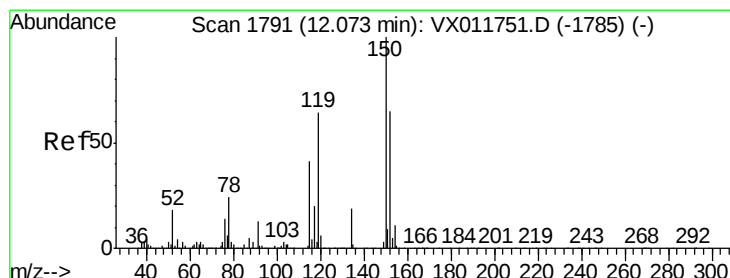
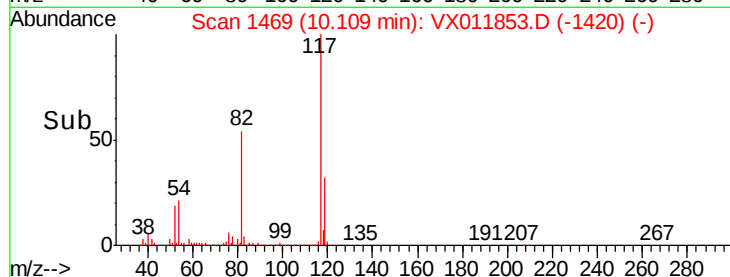
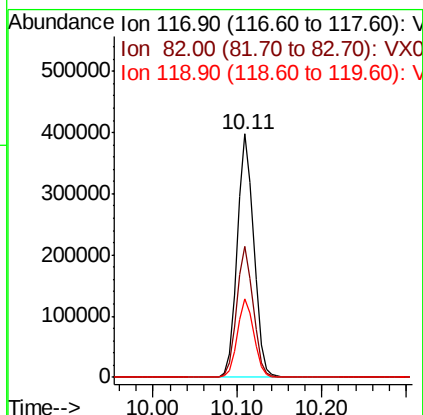
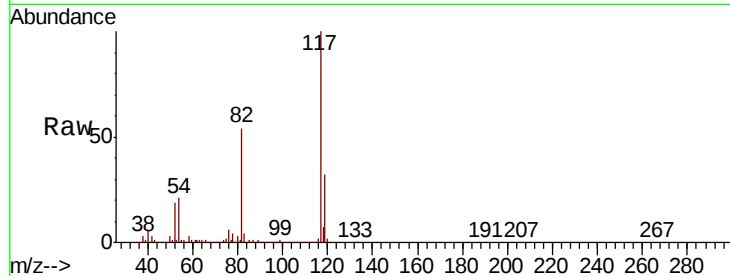




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

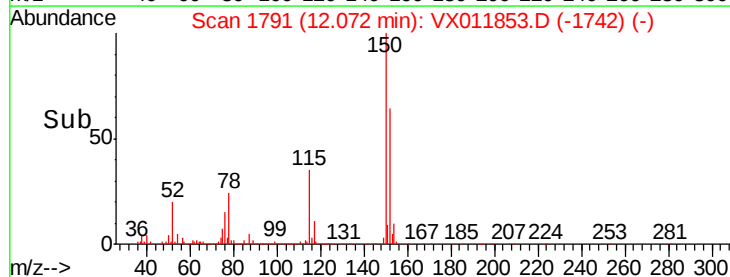
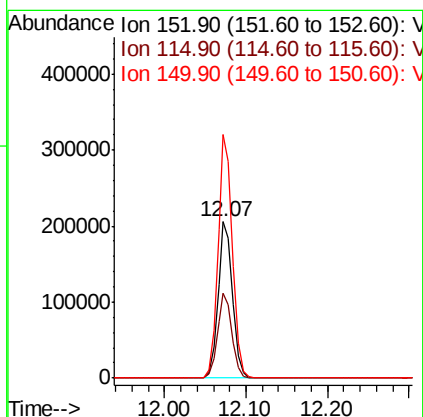
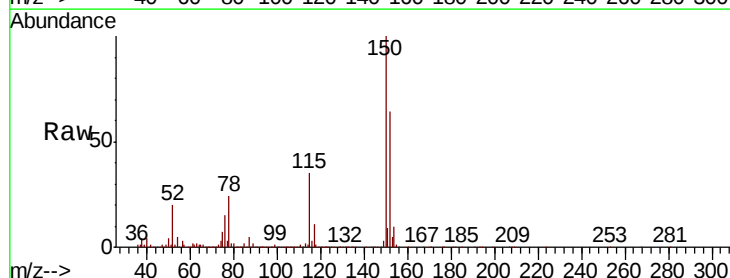
Instrument :
MSVOA_X
ClientSampled :
PB122565TB

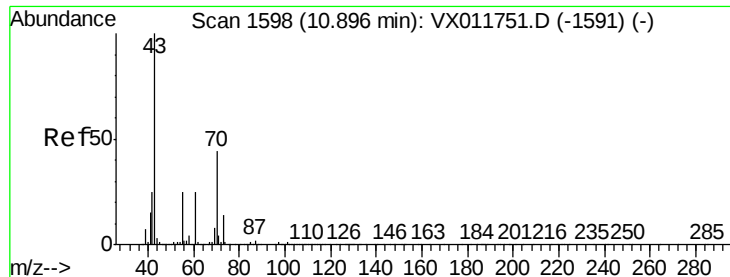
Tgt Ion:117 Resp: 523856
Ion Ratio Lower Upper
117 100
82 53.7 41.7 62.5
119 32.0 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX011853.D
Acq: 27 Aug 2019 16:27

Tgt Ion:152 Resp: 255594
Ion Ratio Lower Upper
152 100
115 54.2 37.3 111.8
150 155.2 0.0 343.0





#74

N-ethyl acetate

Concen: 0.727 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleID :

PB122565TB

Tgt Ion: 43 Resp: 4333

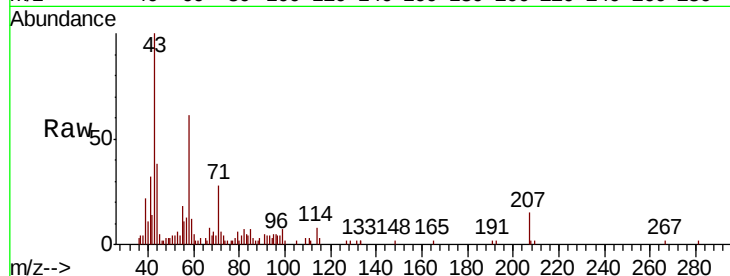
Ion Ratio Lower Upper

43 100

70 0.0 34.8 52.2#

55 5.9 19.5 29.3#

61 0.0 19.8 29.6#

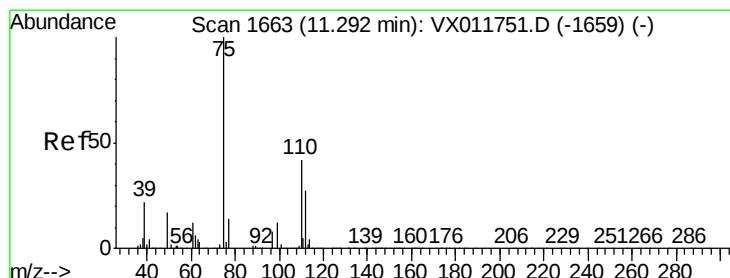
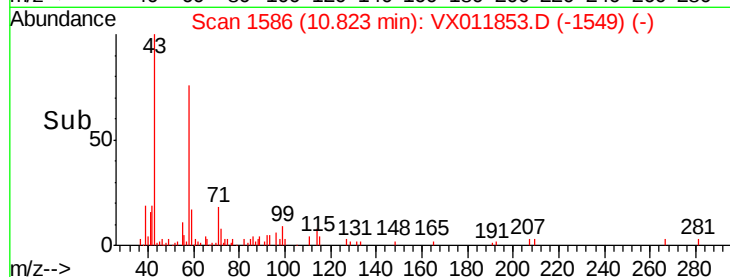
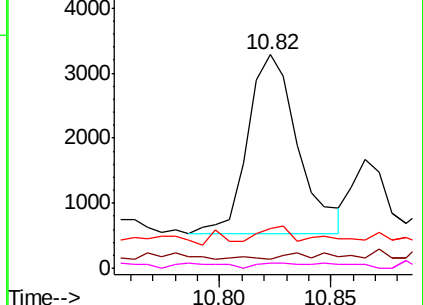


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 27.301 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011853.D

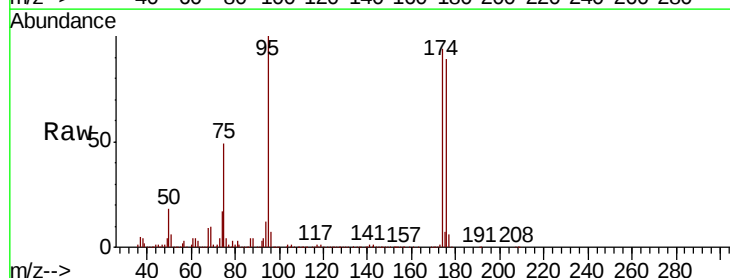
Acq: 27 Aug 2019 16:27

Tgt Ion: 75 Resp: 122443

Ion Ratio Lower Upper

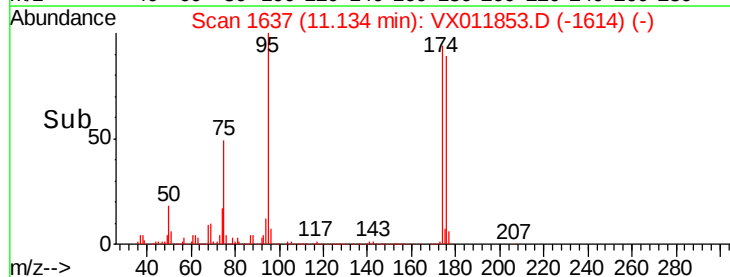
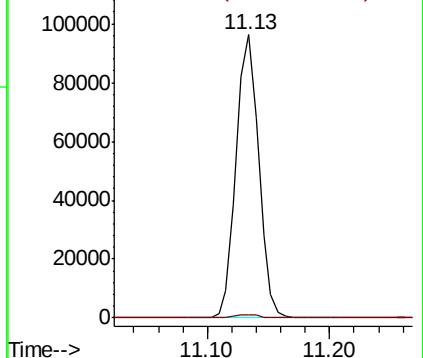
75 100

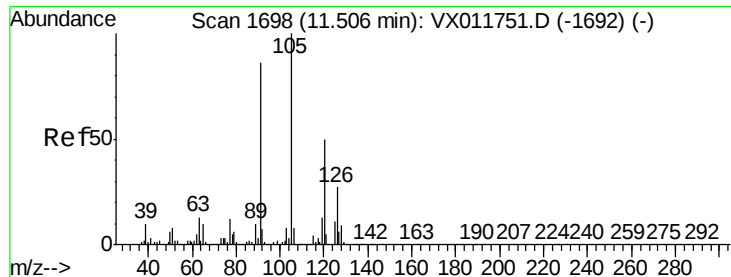
77 1.2 21.1 63.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 1.041 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

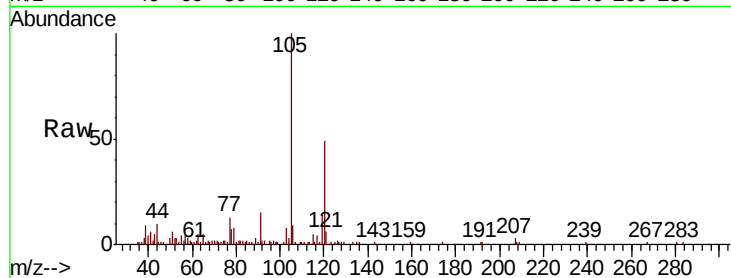
PB122565TB

Tgt Ion: 105 Resp: 13374

Ion Ratio Lower Upper

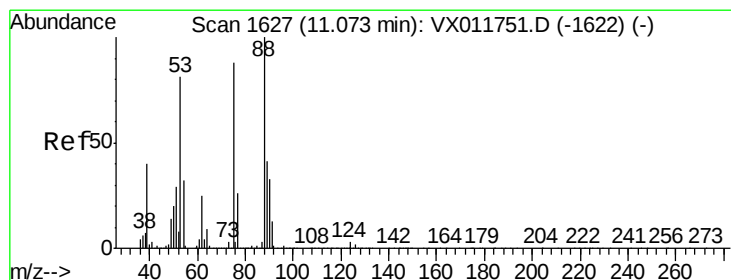
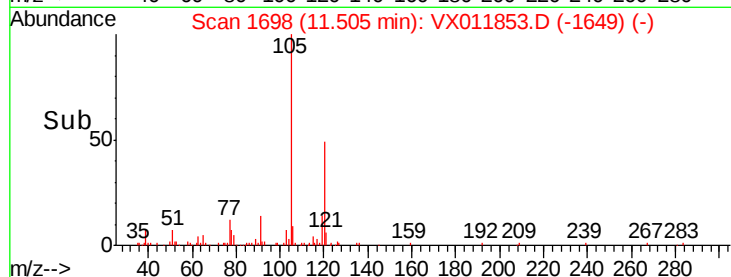
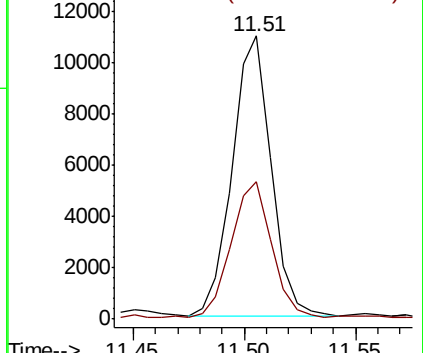
105 100

120 51.7 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 82.335 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011853.D

Acq: 27 Aug 2019 16:27

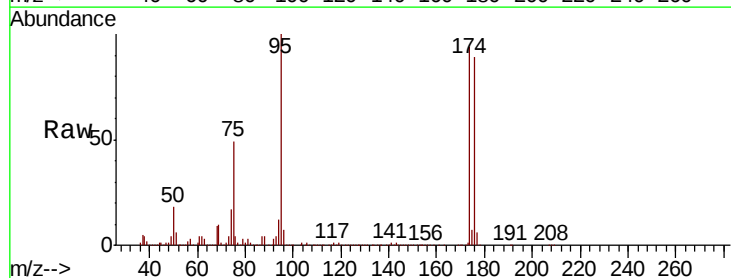
Tgt Ion: 75 Resp: 122443

Ion Ratio Lower Upper

75 100

53 0.1 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

