

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112019\
 Data File : VX013486.D
 Acq On : 20 Nov 2019 18:41
 Operator : JC/SP
 Sample : K5957-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 21 00:51:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	719987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1164526	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1031910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	456634	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	418751	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
35) Dibromofluoromethane	5.49	113	352104	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
50) Toluene-d8	8.71	98	1381767	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	11.14	95	454571	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

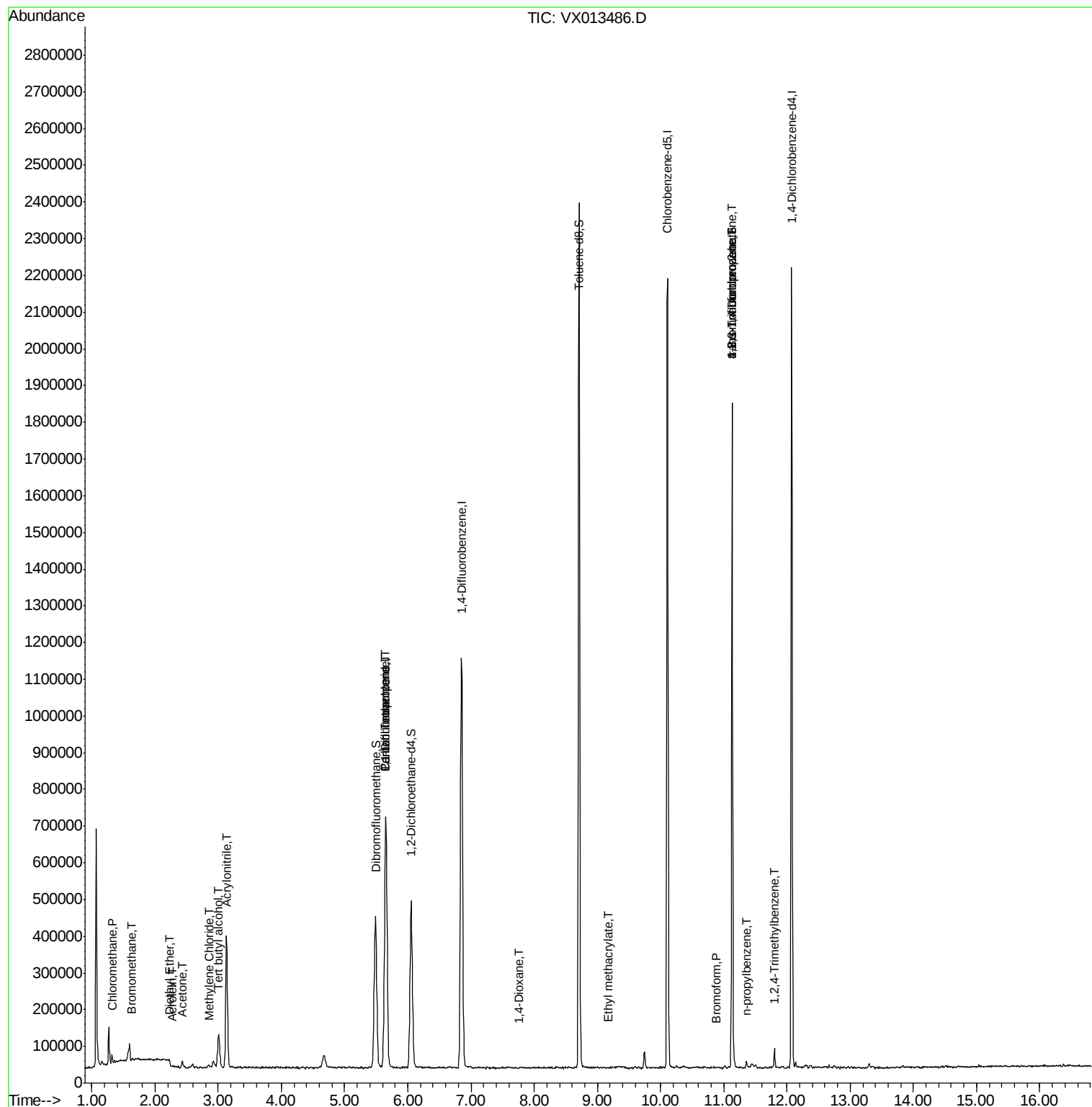
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	13484	1.499	ug/l	99
5) Bromomethane	1.64	94	2625	0.368	ug/l #	61
6) Chloroethane	1.69	64	1935	Below Cal	#	43
8) Diethyl Ether	2.22	74	1486	0.278	ug/l	96
11) Tert butyl alcohol	3.00	59	58585	26.059	ug/l #	78
13) Acrolein	2.28	56	561	0.460	ug/l #	26
15) Acrylonitrile	3.14	53	882	0.210	ug/l #	41
16) Acetone	2.43	43	19080	4.485	ug/l	97
20) Methylene Chloride	2.85	84	3693	0.470	ug/l #	75
36) 1,1-Dichloropropene	5.65	75	49280	4.933	ug/l #	51
38) Carbon Tetrachloride	5.65	117	62613	6.409	ug/l #	15
49) 1,4-Dioxane	7.75	88	174	0.792	ug/l #	1
56) Ethyl methacrylate	9.17	69	762	1.617	ug/l #	54
71) Bromoform	10.87	173	286	3.240	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	225066	24.266	ug/l #	34
78) n-propylbenzene	11.35	91	9731	0.289	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	225066	62.461	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	25992	1.027	ug/l	94

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

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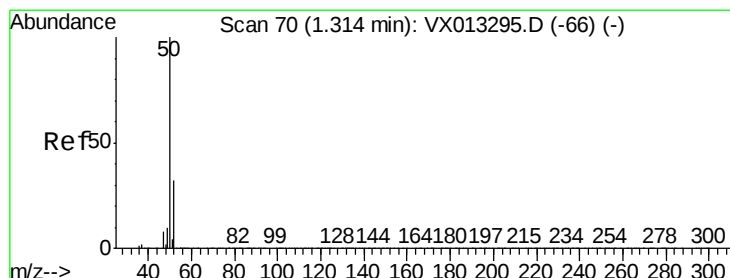
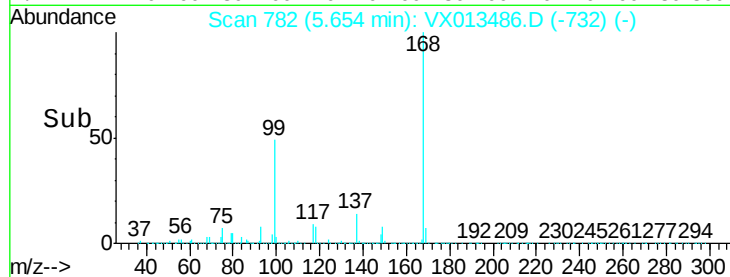
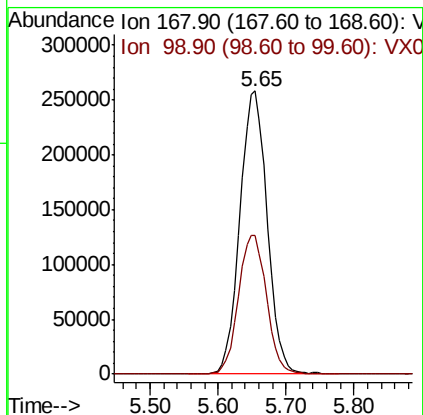
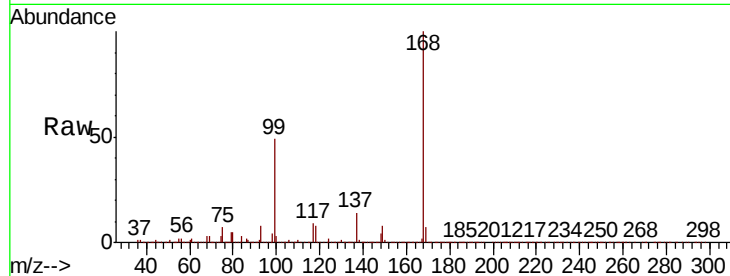


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VX013486.D
 Acq: 20 Nov 2019 18:41

Instrument :
 MSVOA_X
 ClientSampled :

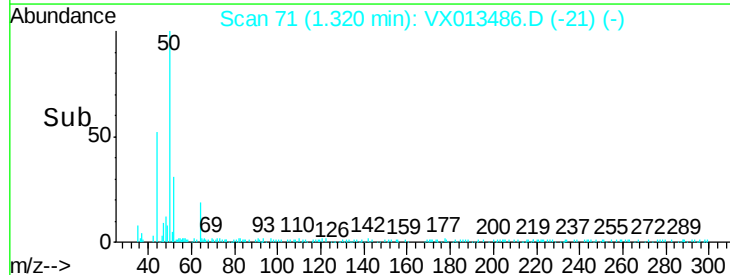
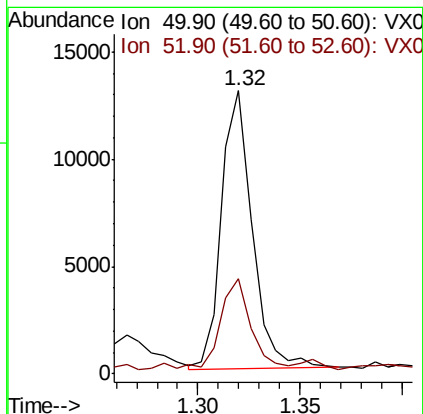
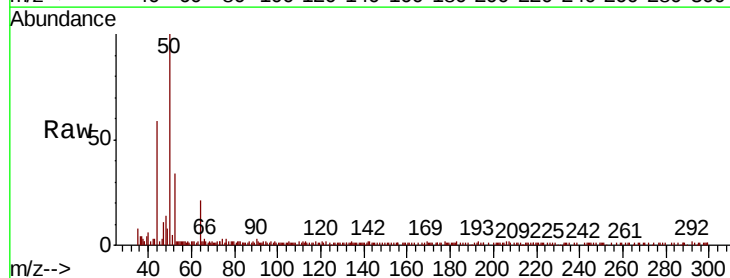
Tot Ion	Ratio	Lower	Upper
168	100		
99	48.9	40.8	61.2

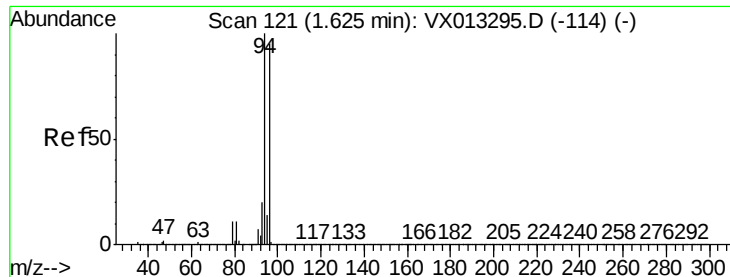


#3

Chloromethane
 Concen: 1.499 ug/l
 RT: 1.32 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VX013486.D
 Acq: 20 Nov 2019 18:41

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.5	38.3





#5

Bromomethane

Concen: 0.368 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

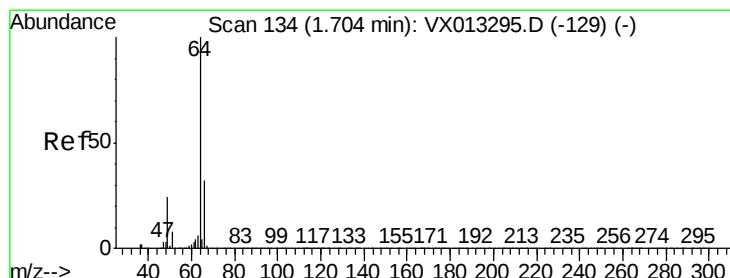
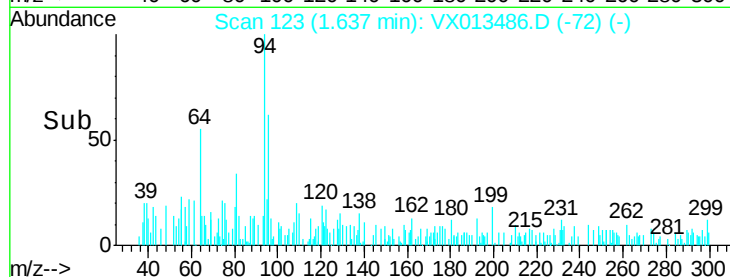
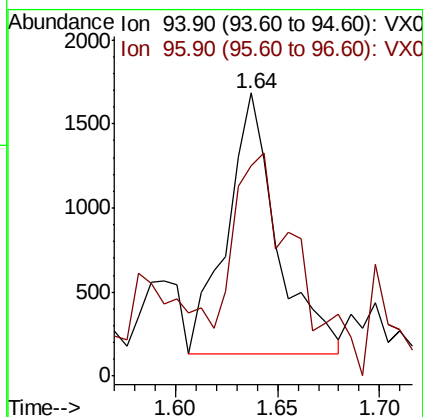
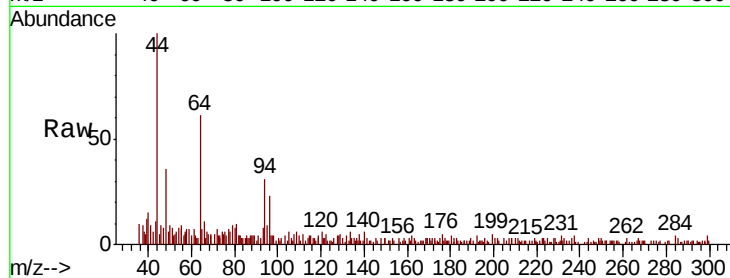
ClientSampleId :

Tot Ion: 94 Resp: 2625

Ion Ratio Lower Upper

94 100

96 56.9 75.8 113.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 132

Delta R.T. -0.01 min

Lab File: VX013486.D

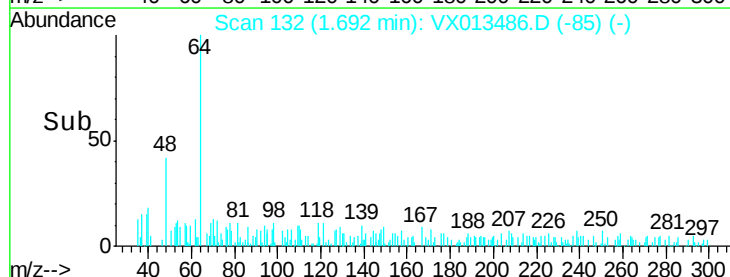
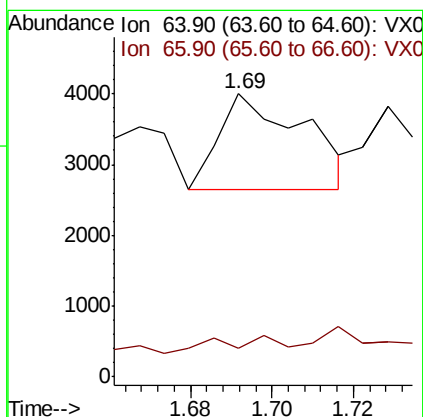
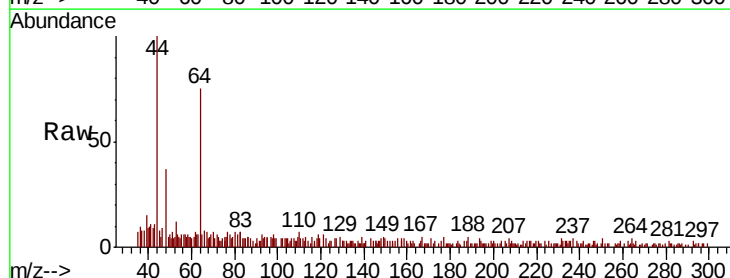
Acq: 20 Nov 2019 18:41

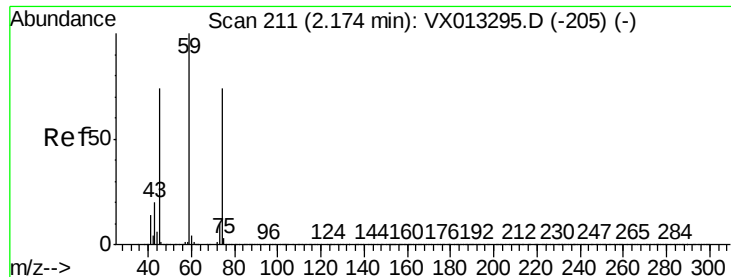
Tgt Ion: 64 Resp: 1935

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#





#8

Diethyl Ether

Concen: 0.278 ug/l

RT: 2.22 min Scan# 218

Delta R.T. 0.04 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

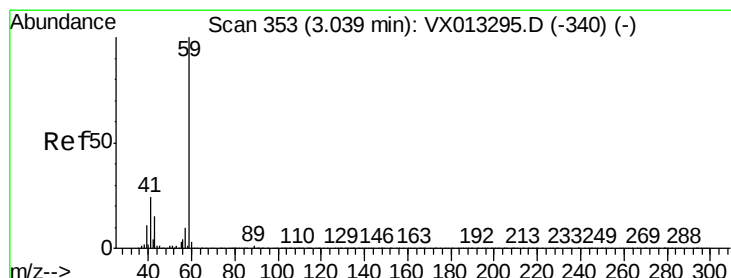
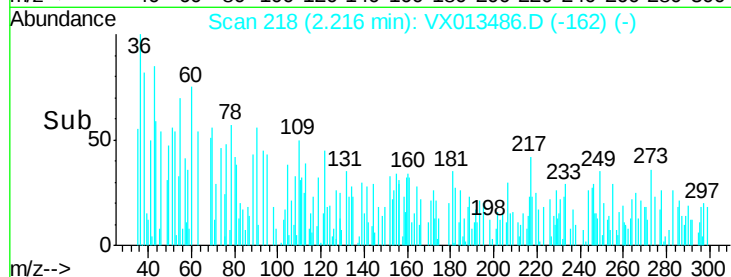
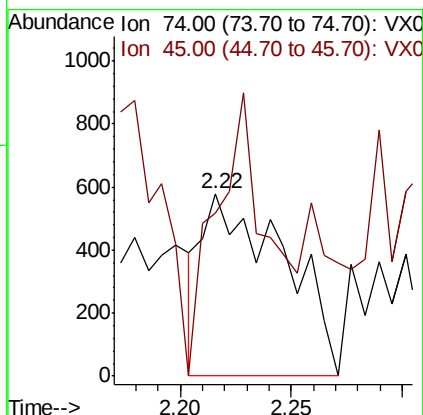
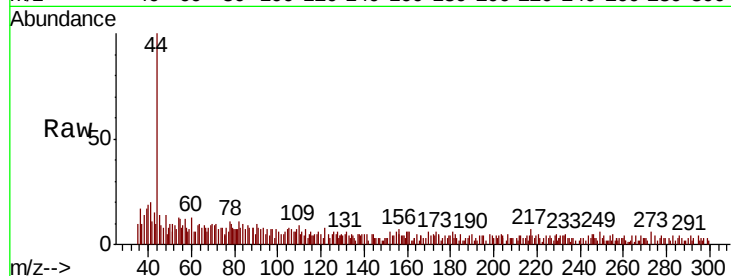
ClientSampleId :

Tot Ion: 74 Resp: 1486

Ion Ratio Lower Upper

74 100

45 100.9 48.5 145.6



#11

Tert butyl alcohol

Concen: 26.059 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX013486.D

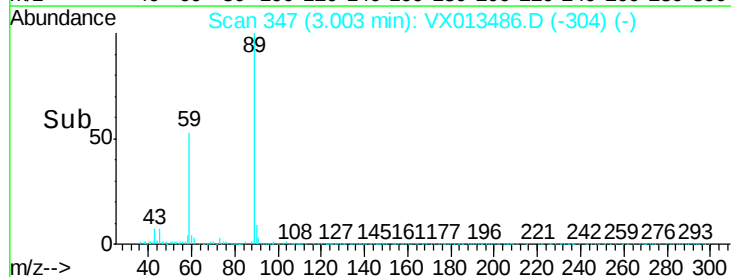
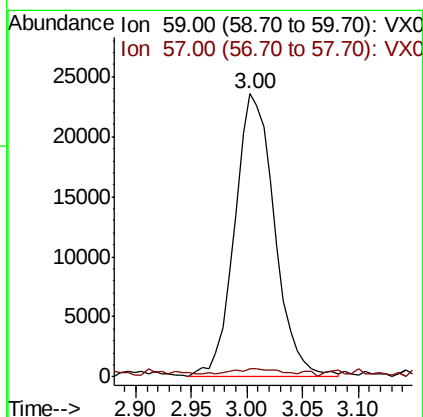
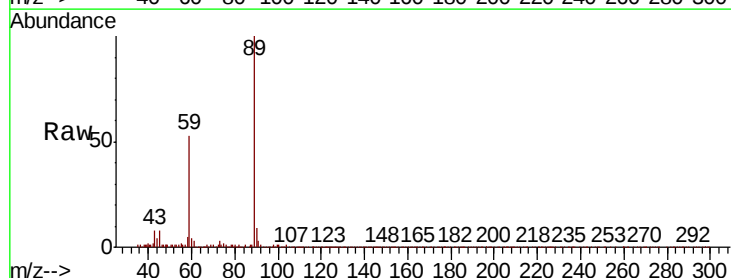
Acq: 20 Nov 2019 18:41

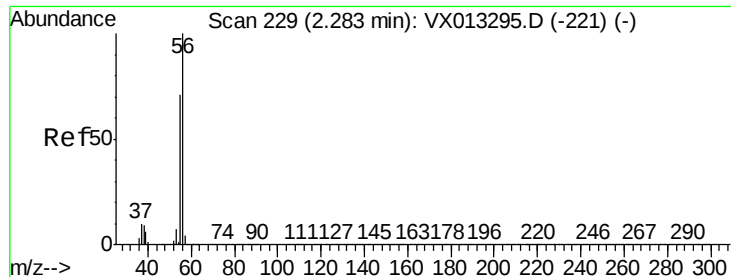
Tgt Ion: 59 Resp: 58585

Ion Ratio Lower Upper

59 100

57 1.9 8.0 12.0#





#13

Acrolein

Concen: 0.460 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

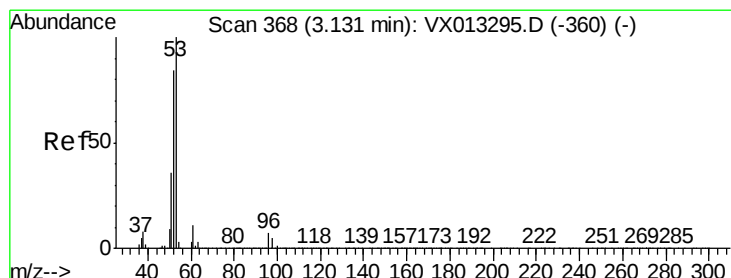
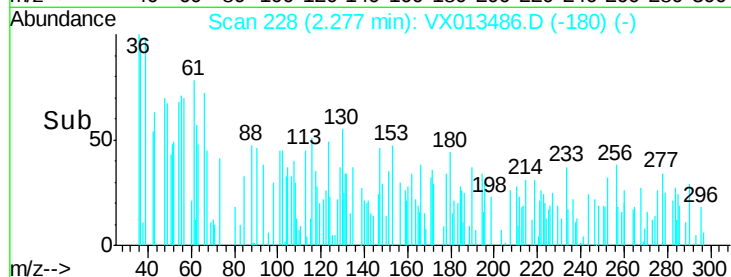
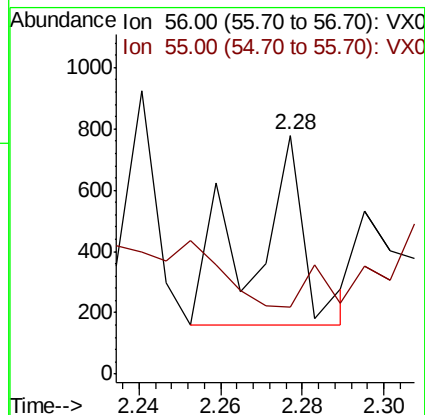
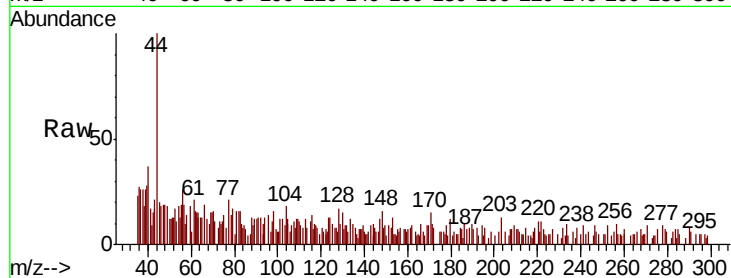
ClientSampleId :

Tot Ion: 56 Resp: 561

Ion Ratio Lower Upper

56 100

55 10.0 57.4 86.0#



#15

Acrylonitrile

Concen: 0.210 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

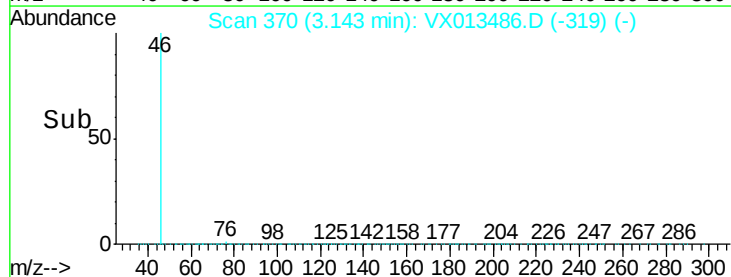
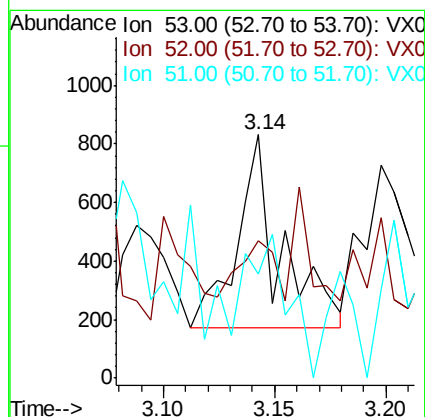
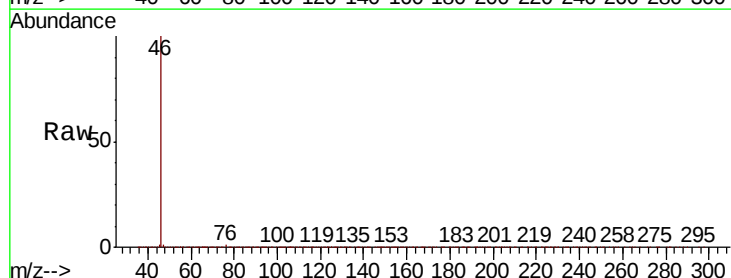
Tgt Ion: 53 Resp: 882

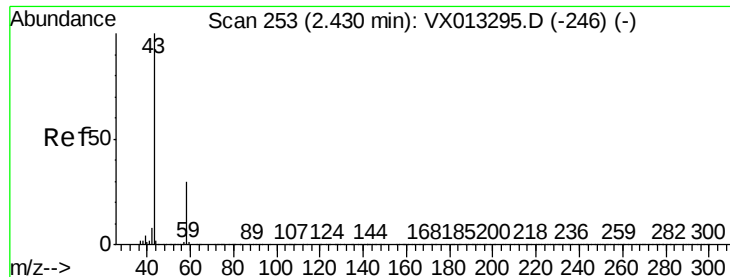
Ion Ratio Lower Upper

53 100

52 31.5 67.4 101.0#

51 73.5 29.4 44.2#





#16

Acetone

Concen: 4.485 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

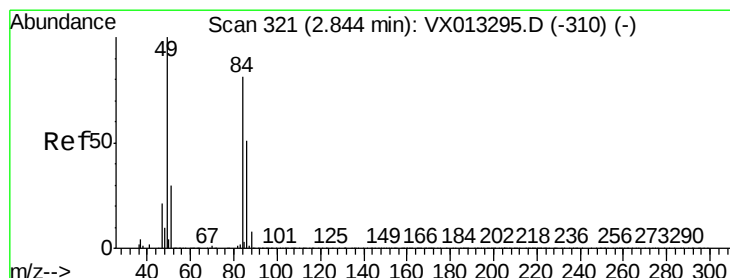
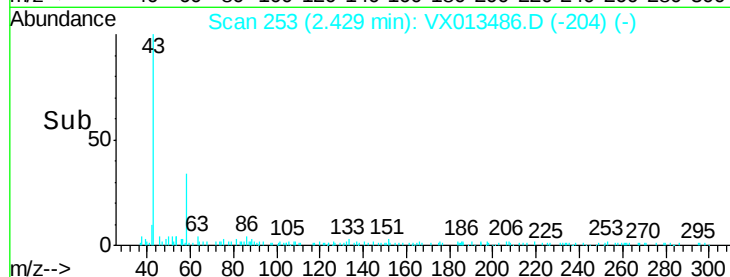
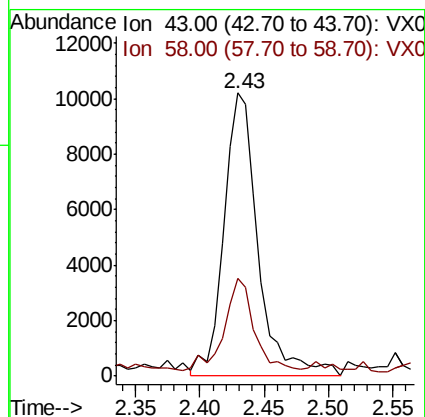
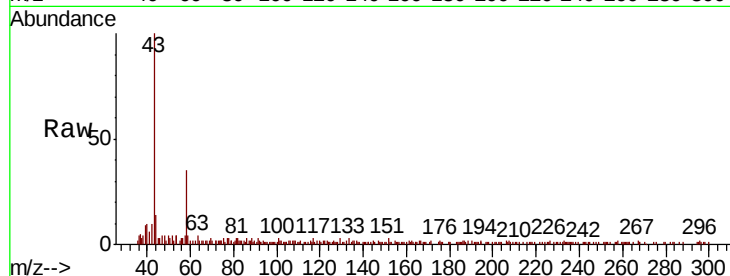
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 19080

Ion Ratio Lower Upper

43 100

58 32.3 24.3 36.5



#20

Methylene Chloride

Concen: 0.470 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Tgt Ion: 84 Resp: 3693

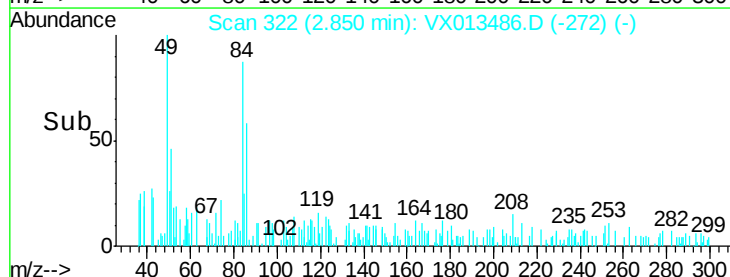
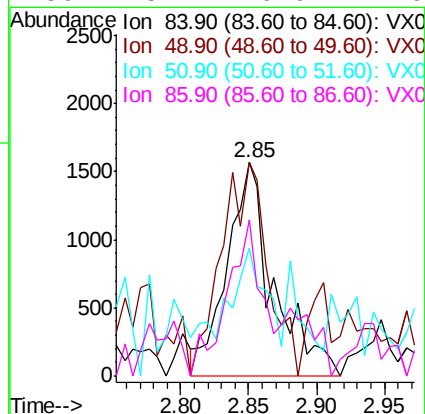
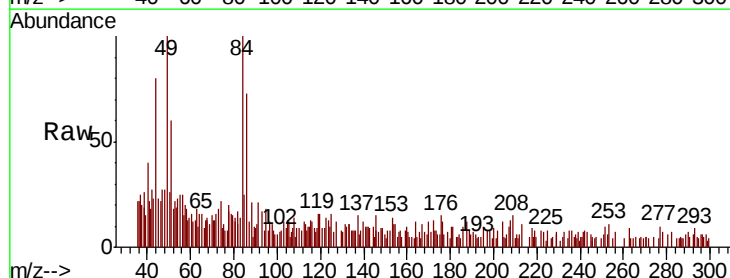
Ion Ratio Lower Upper

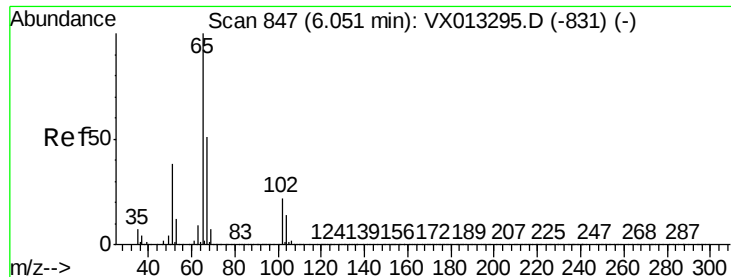
84 100

49 81.9 98.2 147.4#

51 34.7 29.9 44.9

86 73.1 49.9 74.9





#33

1,2-Dichloroethane-d4

Concen: 49.093 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

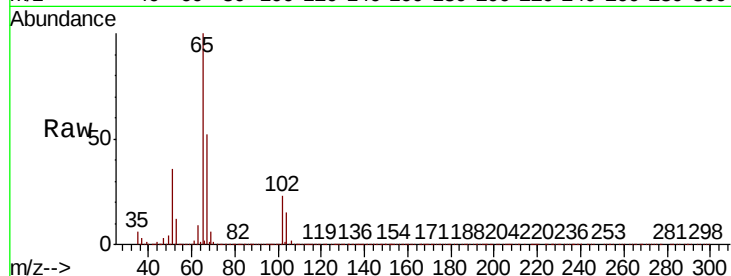
ClientSampleId :

Tot Ion: 65 Resp: 418751

Ion Ratio Lower Upper

65 100

67 52.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

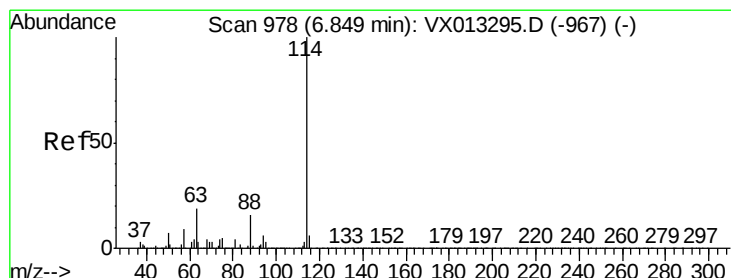
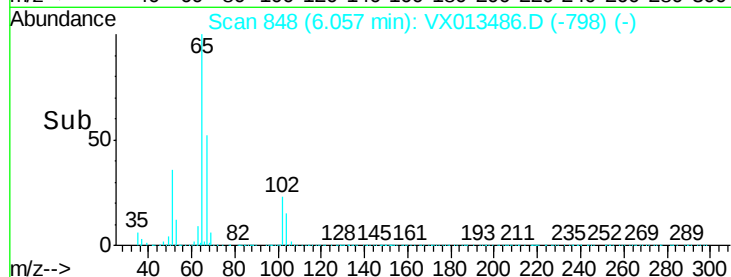
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

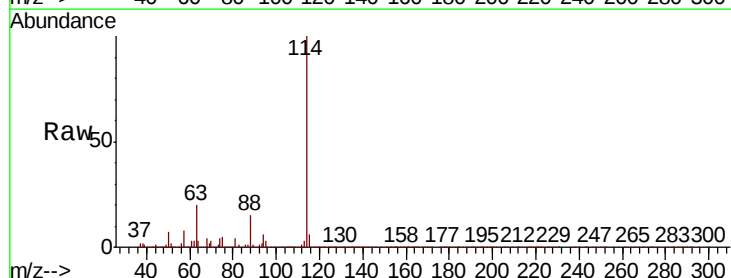
Tgt Ion: 114 Resp: 1164526

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.4

88 15.2 0.0 32.2



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

6.85

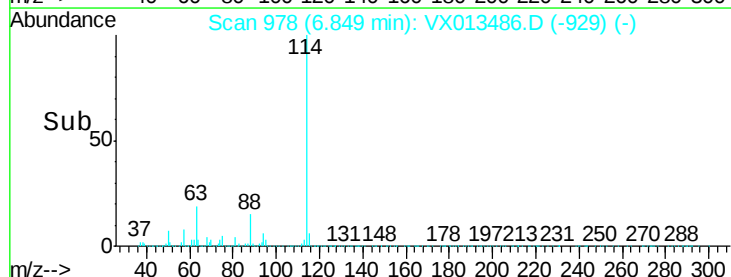
600000

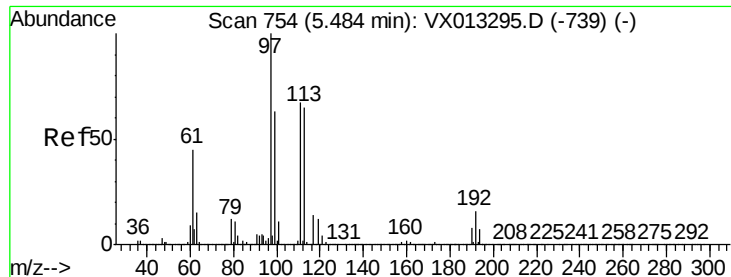
400000

200000

0

Time--> 6.70 6.80 6.90 7.00

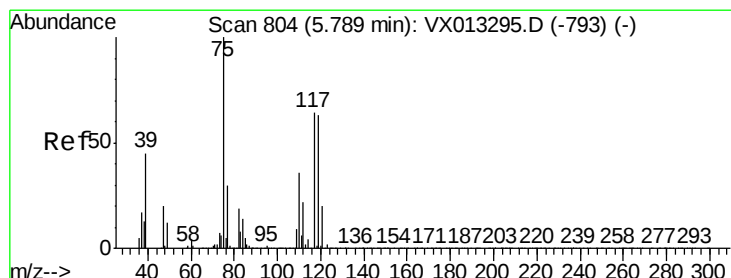
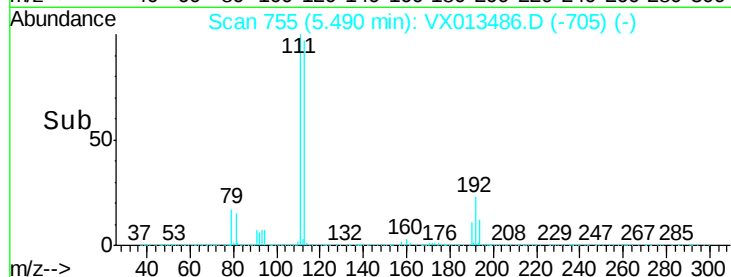
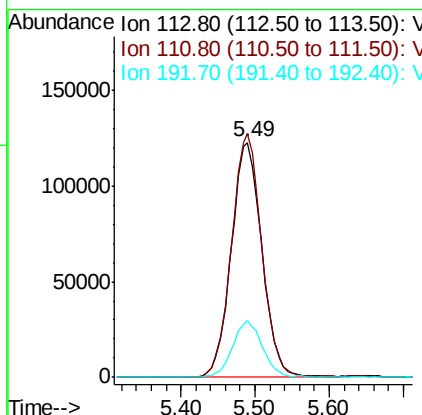
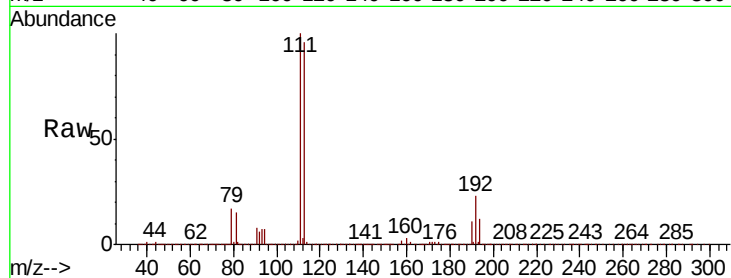




#35
Dibromofluoromethane
Concen: 48.207 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013486.D
Acq: 20 Nov 2019 18:41

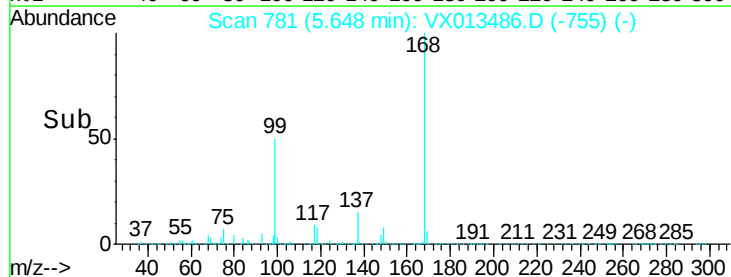
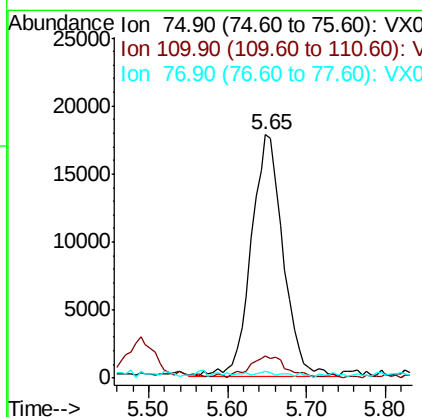
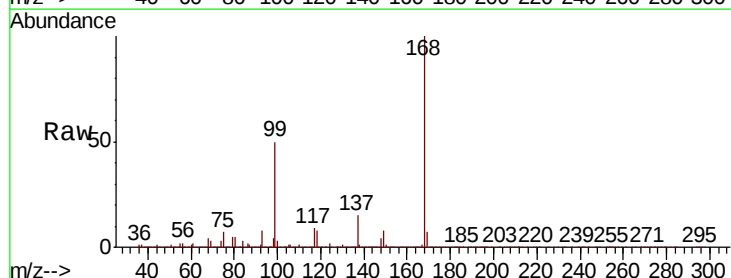
Instrument :
MSVOA_X
ClientSampleId :

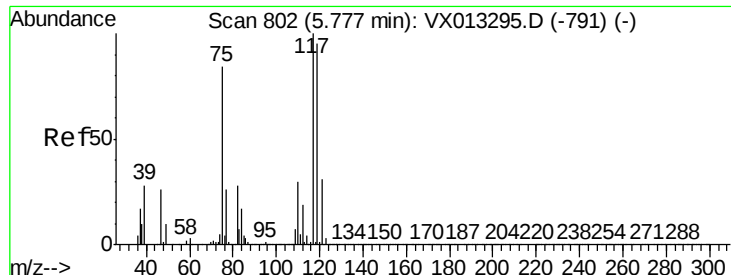
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	23.6	19.1	28.7



#36
1,1-Dichloropropene
Concen: 4.933 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013486.D
Acq: 20 Nov 2019 18:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.1	54.1#
77	0.7	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.409 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

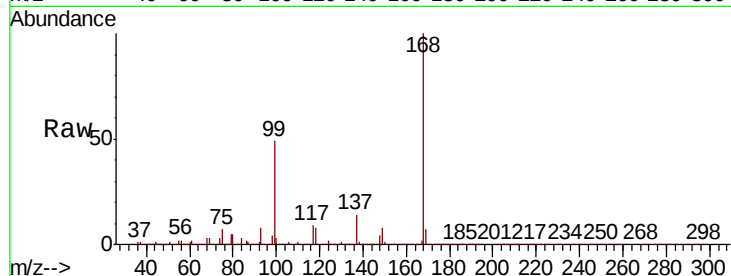
Tot Ion:117 Resp: 62613

Ion Ratio Lower Upper

117 100

119 3.5 76.1 114.1#

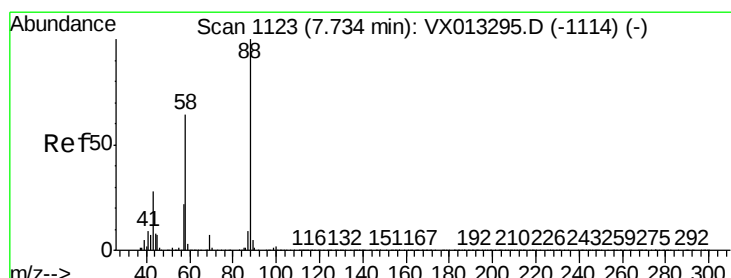
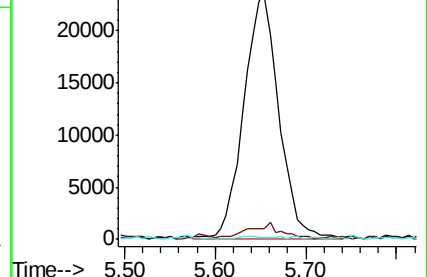
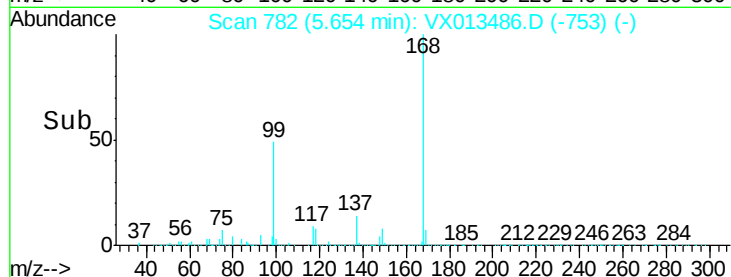
121 0.0 24.6 37.0#



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



#49

1,4-Dioxane

Concen: 0.792 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

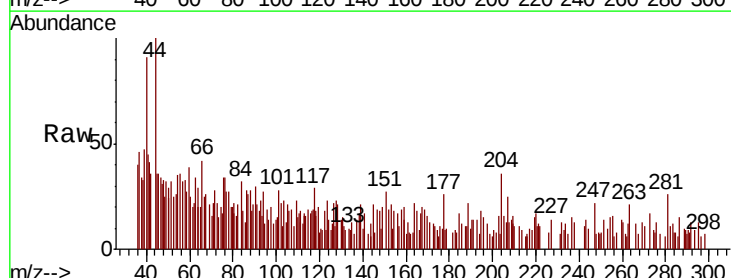
Tgt Ion: 88 Resp: 174

Ion Ratio Lower Upper

88 100

43 137.9 26.6 39.8#

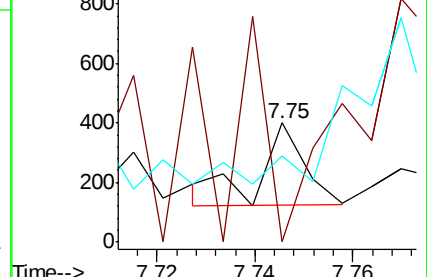
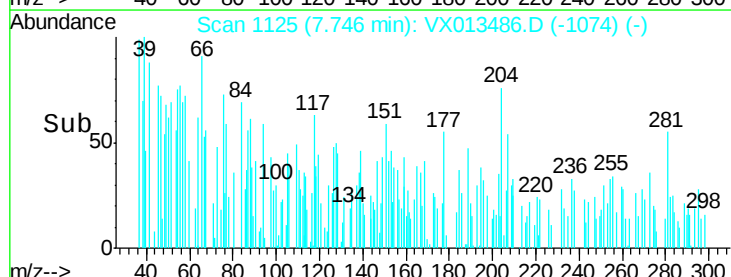
58 0.0 55.0 82.6#

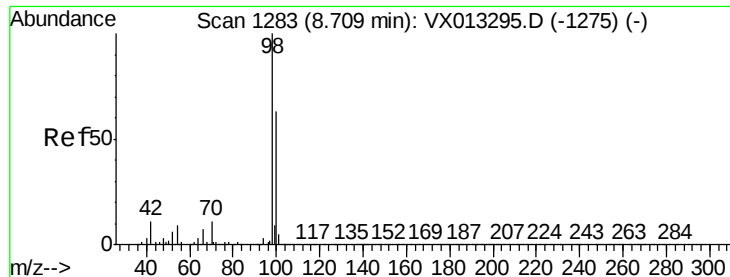


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.181 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

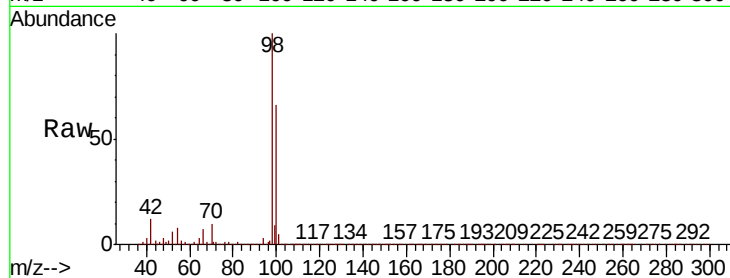
ClientSampled :

Tot Ion: 98 Resp: 1381767

Ion Ratio Lower Upper

98 100

100 65.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

1000000

800000

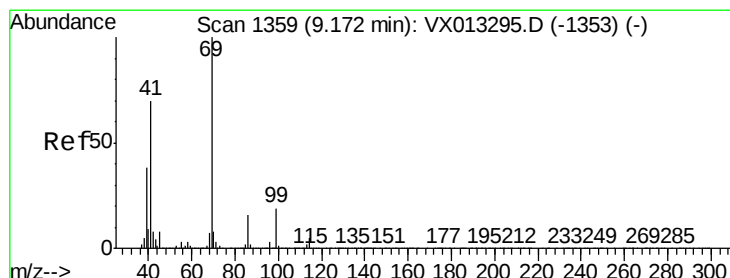
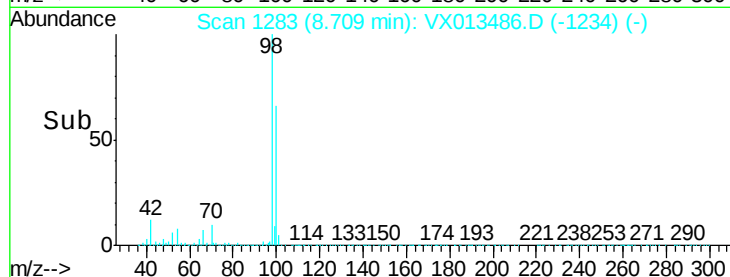
600000

400000

200000

0

Time-->



#56

Ethyl methacrylate

Concen: 1.617 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

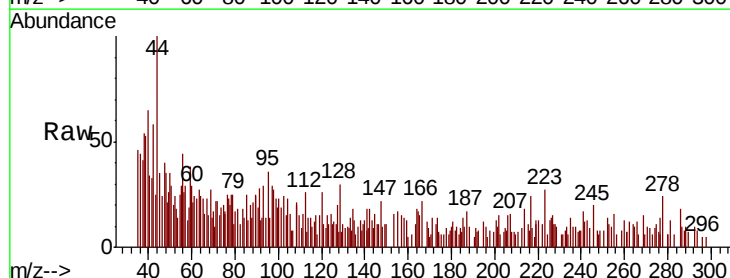
Tgt Ion: 69 Resp: 762

Ion Ratio Lower Upper

69 100

41 14.2 56.2 84.2#

39 35.6 31.1 46.7



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

1000

800

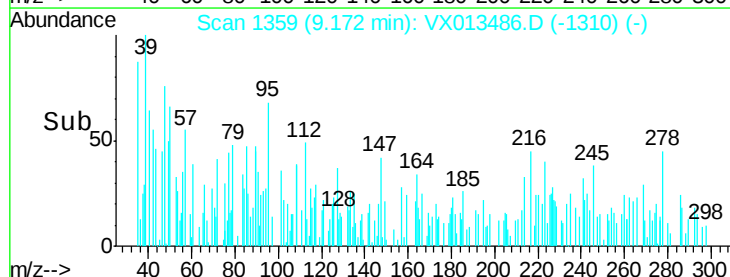
600

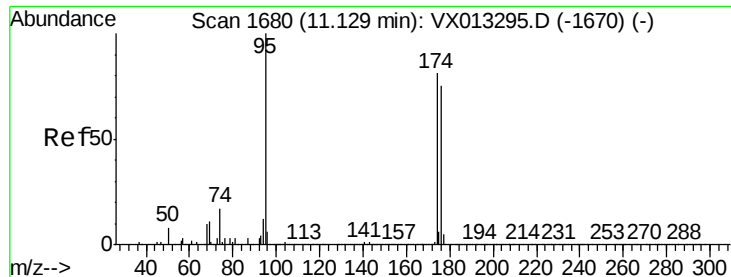
400

200

0

Time-->

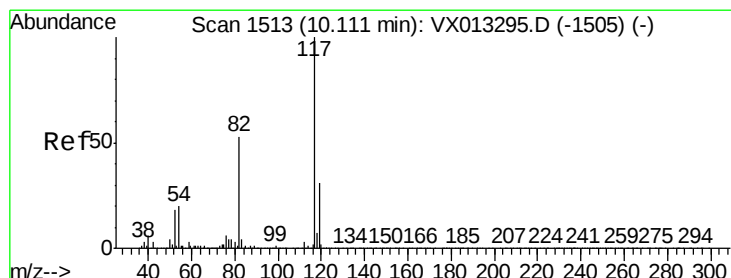
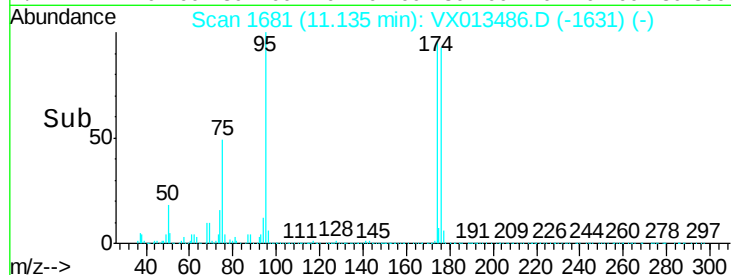
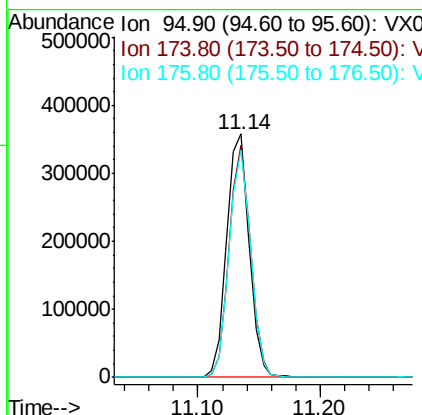
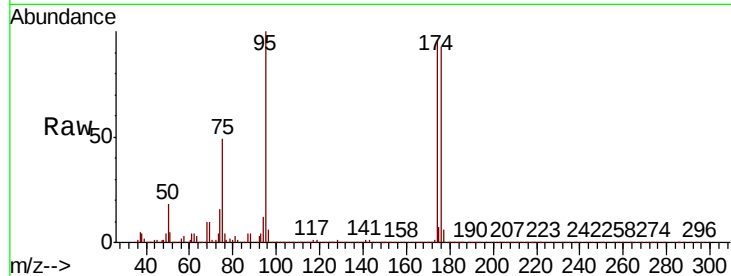




#62
4-Bromofluorobenzene
Concen: 45.742 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX013486.D
Acq: 20 Nov 2019 18:41

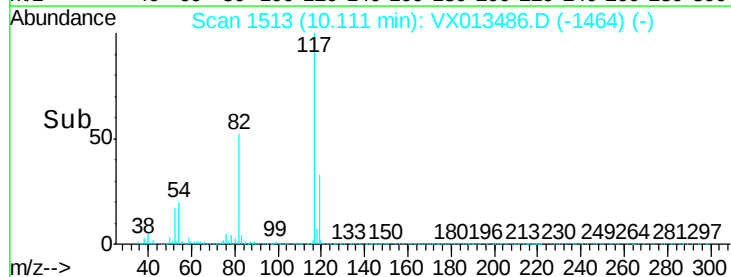
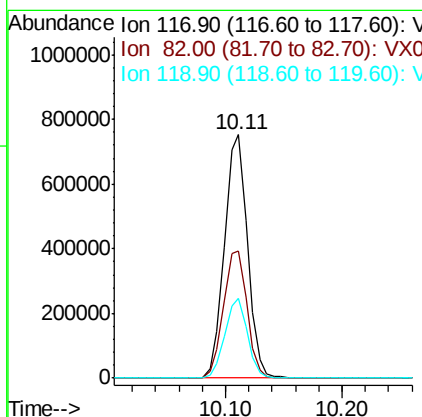
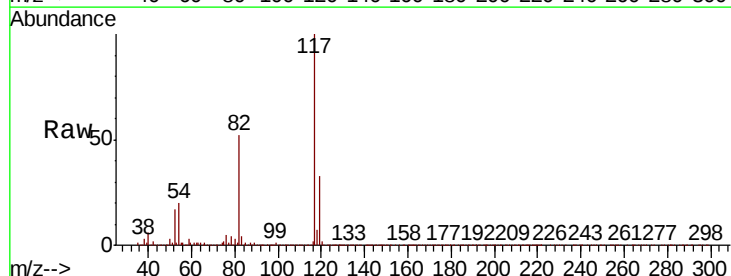
Instrument :
MSVOA_X
ClientSampleId :

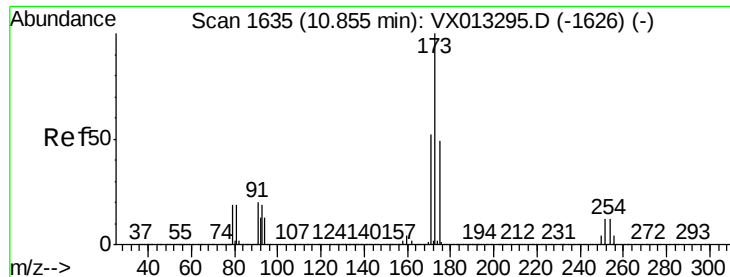
Tot Ion: 95 Resp: 454571
Ion Ratio Lower Upper
95 100
174 90.8 0.0 179.8
176 89.7 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013486.D
Acq: 20 Nov 2019 18:41

Tgt Ion: 117 Resp: 1031910
Ion Ratio Lower Upper
117 100
82 52.2 42.6 64.0
119 32.6 24.8 37.2





#71

Bromoform

Concen: 3.240 ug/l

RT: 10.87 min Scan# 1638

Delta R.T. 0.02 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

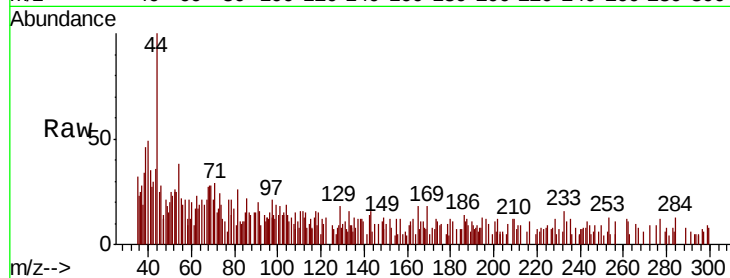
Tot Ion:173 Resp: 286

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

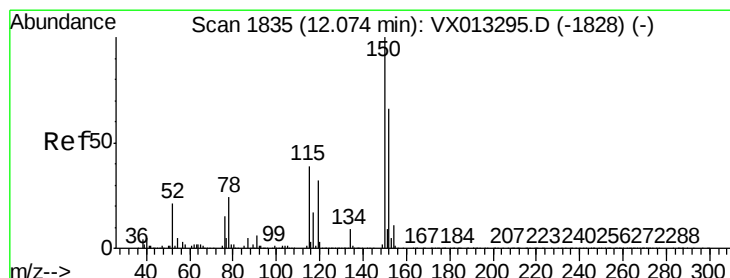
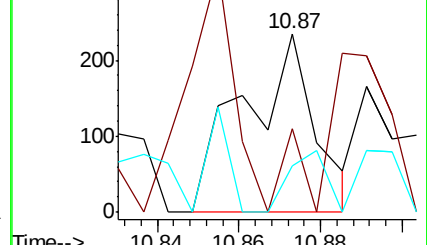
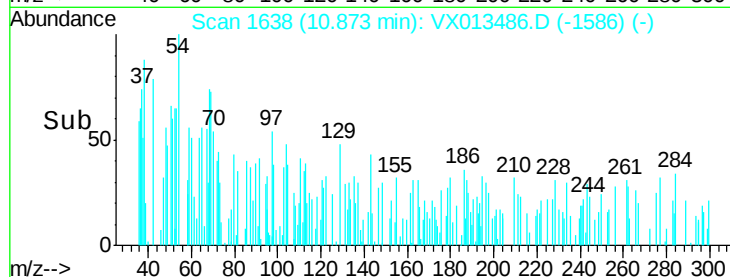
254 18.2 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX013486.D

Acq: 20 Nov 2019 18:41

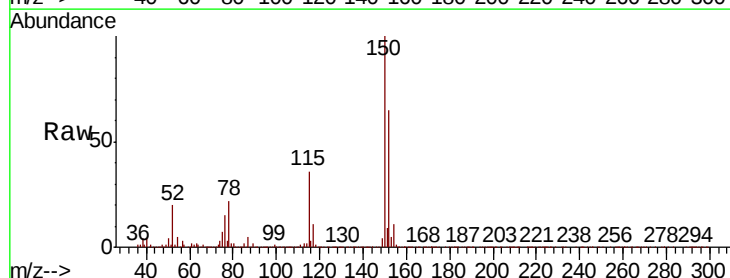
Tgt Ion:152 Resp: 456634

Ion Ratio Lower Upper

152 100

115 55.6 39.5 118.3

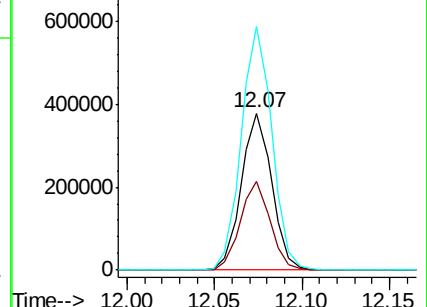
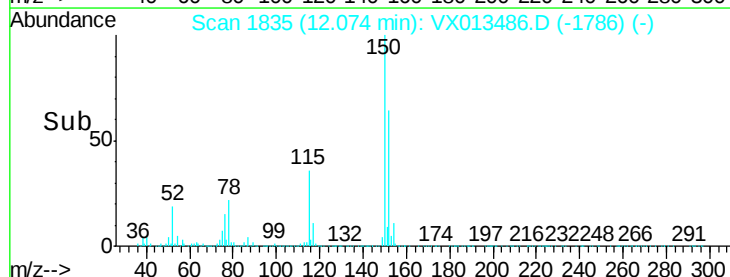
150 156.6 0.0 344.4

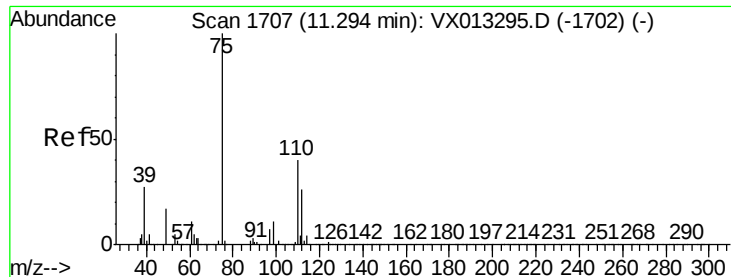


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.266 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

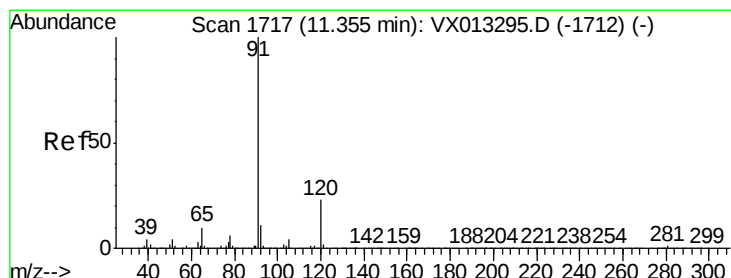
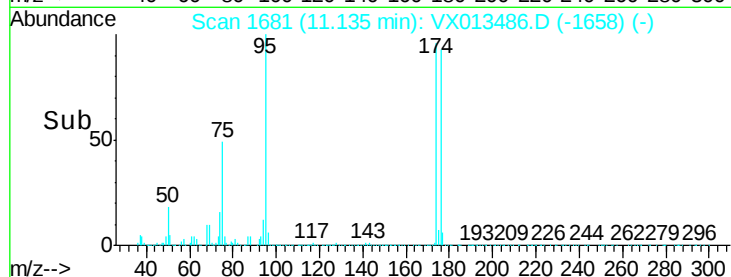
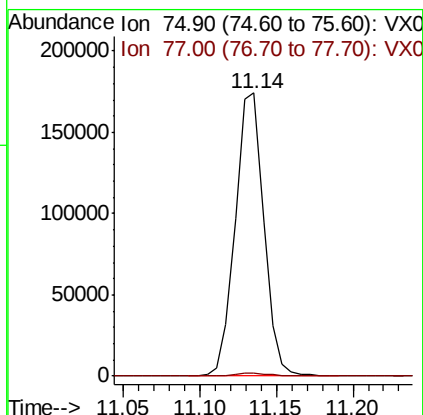
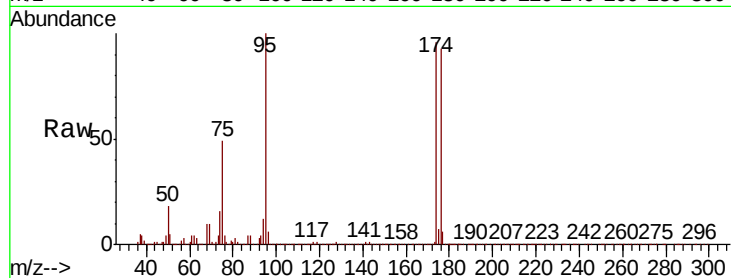
ClientSampleId :

Tot Ion: 75 Resp: 225066

Ion Ratio Lower Upper

75 100

77 1.8 22.3 66.8#



#78

n-propylbenzene

Concen: 0.289 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013486.D

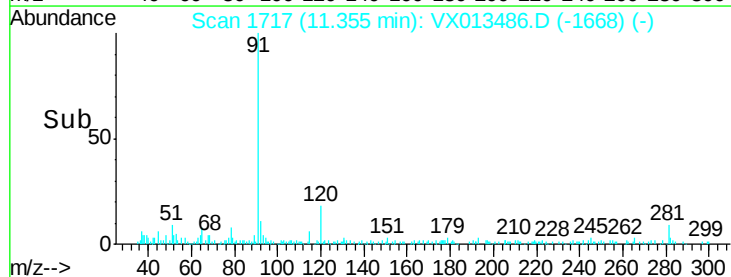
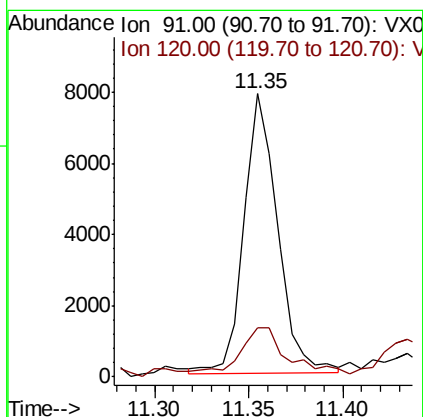
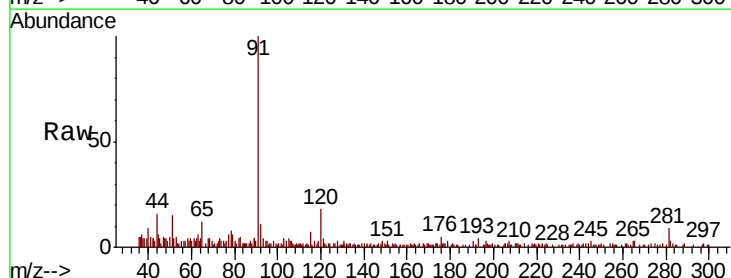
Acq: 20 Nov 2019 18:41

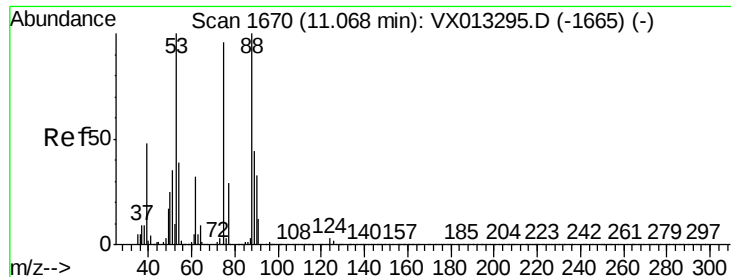
Tgt Ion: 91 Resp: 9731

Ion Ratio Lower Upper

91 100

120 22.5 11.6 34.8





#81

trans-1,4-Dichloro-2-butene

Concen: 62.461 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013486.D

Acq: 20 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

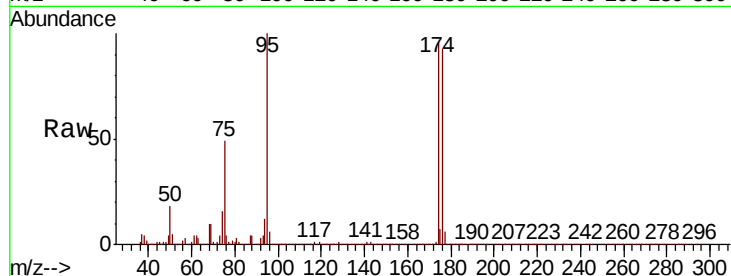
Tot Ion: 75 Resp: 225066

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

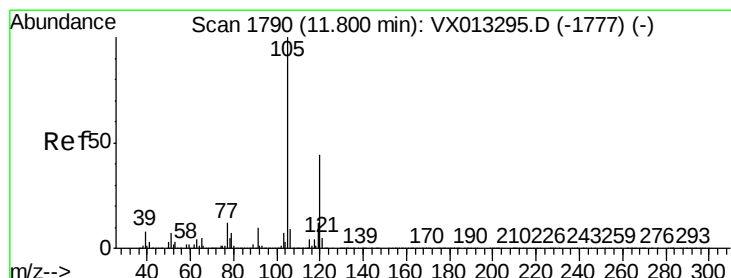
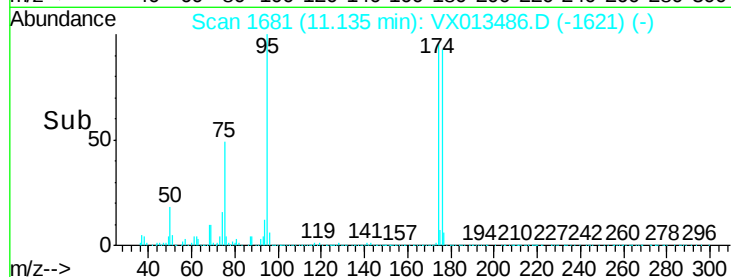
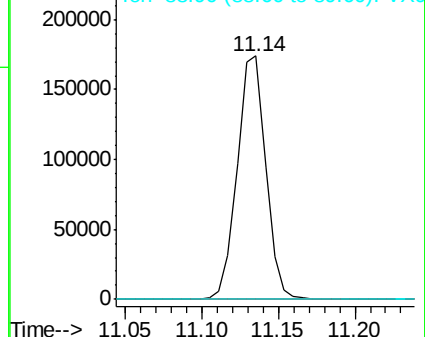
89 0.2 36.0 54.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.027 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VX013486.D

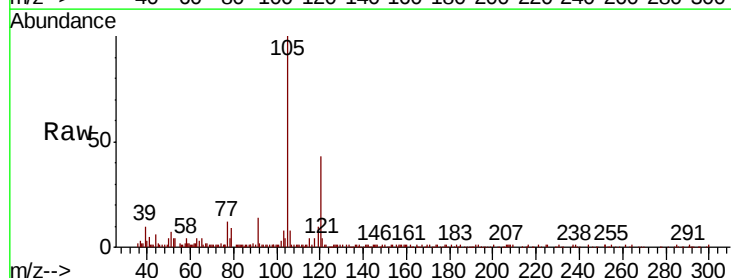
Acq: 20 Nov 2019 18:41

Tgt Ion: 105 Resp: 25992

Ion Ratio Lower Upper

105 100

120 49.1 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

