

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091819\
 Data File : VX012484.D
 Acq On : 18 Sep 2019 19:18
 Operator : JC/SP
 Sample : K4858-04DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D3-20190909DL

Quant Time: Sep 19 06:04:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	180077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	277204	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	239696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95626	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	118255	45.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.64%	
35) Dibromofluoromethane	5.49	113	83213	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
50) Toluene-d8	8.71	98	320519	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
62) 4-Bromofluorobenzene	11.14	95	115854	44.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.86%	

Target Compounds

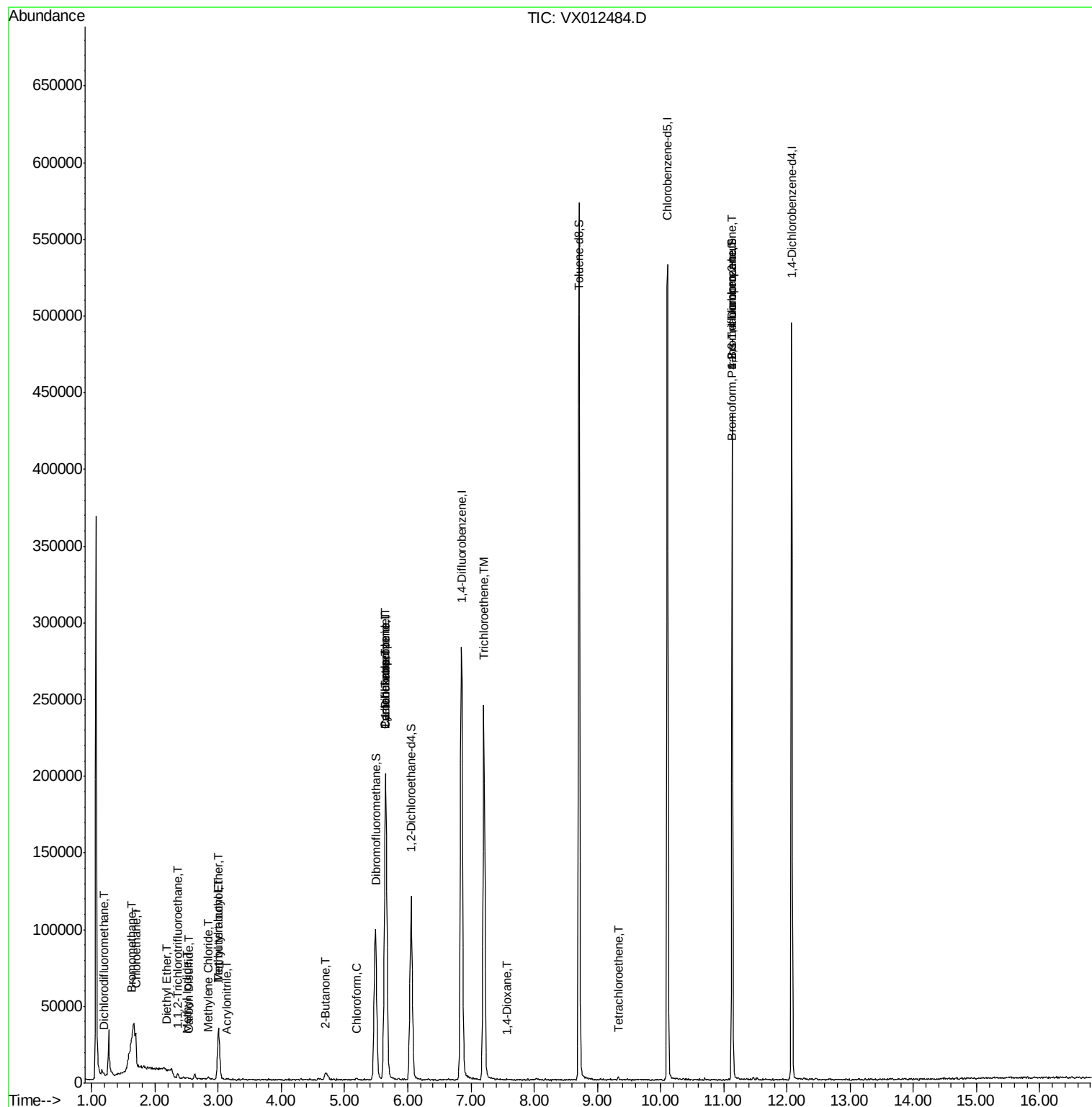
						Qvalue
2) Dichlorodifluoromethane	1.20	85	23	0.410	ug/l #	7
5) Bromomethane	1.63	94	270	0.642	ug/l #	1
6) Chloroethane	1.70	64	411	0.491	ug/l #	49
8) Diethyl Ether	2.19	74	236	0.266	ug/l	57
9) 1,1,2-Trichlorotrifluoroet	2.36	101	694	0.489	ug/l #	89
10) Methyl Iodide	2.50	142	304	4.670	ug/l #	81
11) Tert butyl alcohol	3.00	59	21821	28.129	ug/l #	78
13) Acrolein	2.27	56	203	Below Cal	#	15
15) Acrylonitrile	3.14	53	262	0.234	ug/l #	65
16) Acetone	2.44	43	1308	Below Cal		96
17) Carbon Disulfide	2.55	76	193	1.923	ug/l #	75
19) Methyl tert-butyl Ether	3.00	73	1401	0.227	ug/l #	49
20) Methylene Chloride	2.83	84	518	0.332	ug/l #	76
25) 2-Butanone	4.69	43	708	0.395	ug/l	92
30) Chloroform	5.19	83	728	0.215	ug/l	89
31) Cyclohexane	5.65	56	4443	2.493	ug/l #	16
36) 1,1-Dichloropropene	5.64	75	14830	8.803	ug/l #	54
38) Carbon Tetrachloride	5.65	117	18975	9.056	ug/l #	17
44) Trichloroethene	7.20	130	96376	68.388	ug/l	96
49) 1,4-Dioxane	7.58	88	60	1.127	ug/l #	53
64) Tetrachloroethene	9.34	164	260	0.237	ug/l #	80
71) Bromoform	11.12	173	124	2.952	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	60210	27.411	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60210	73.688	ug/l #	8

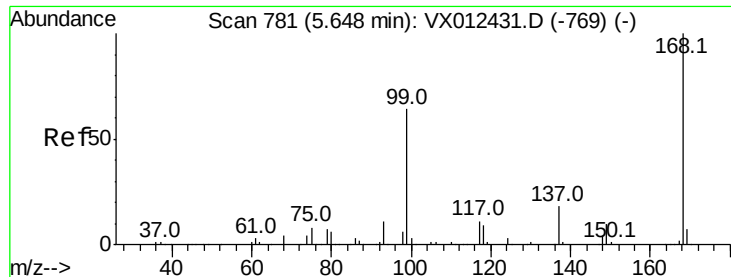
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration

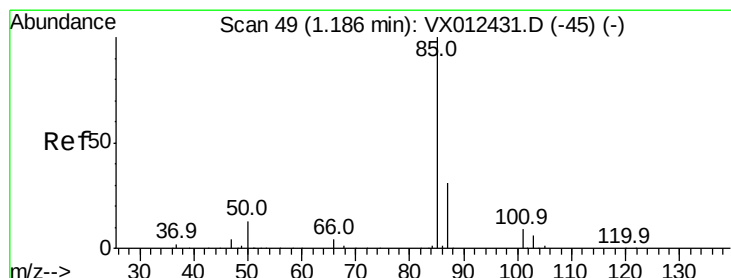
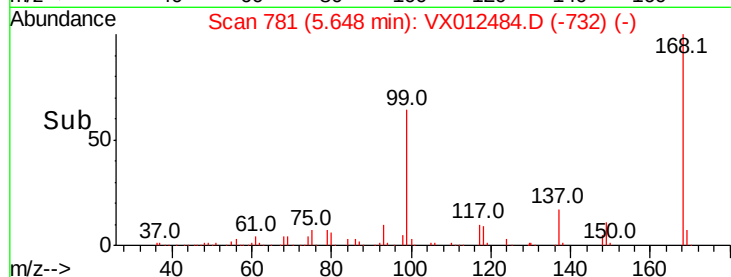
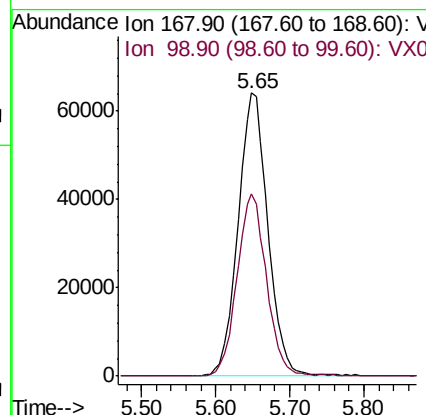
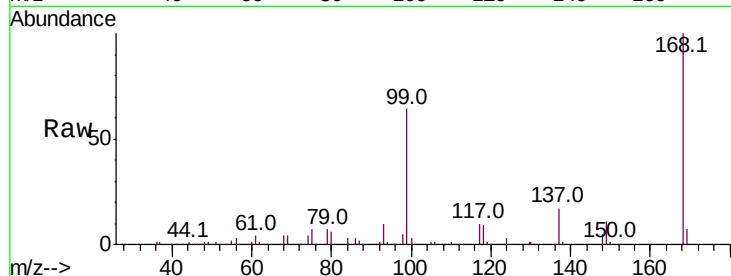




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.00 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

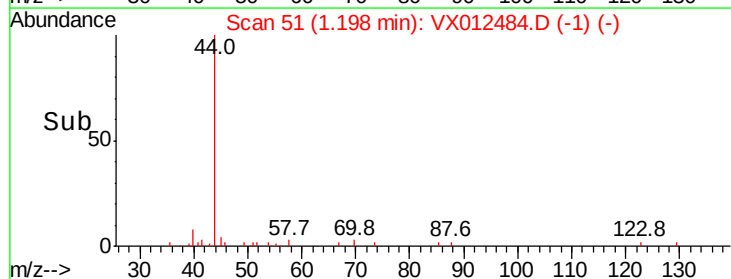
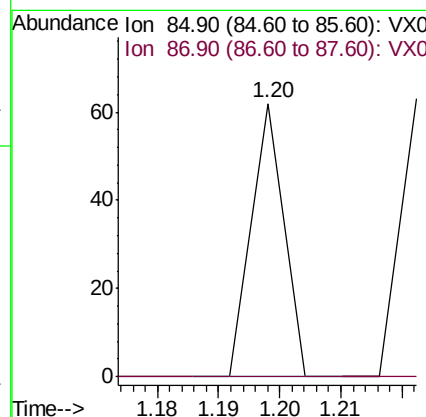
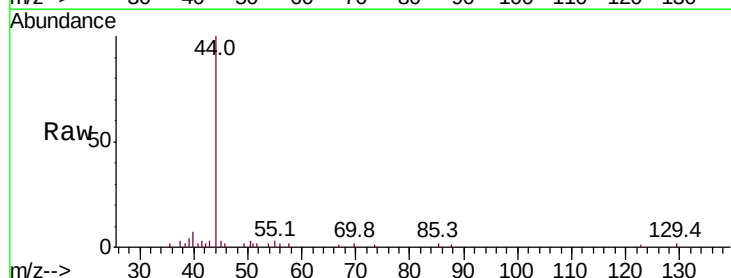
Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20190909DL

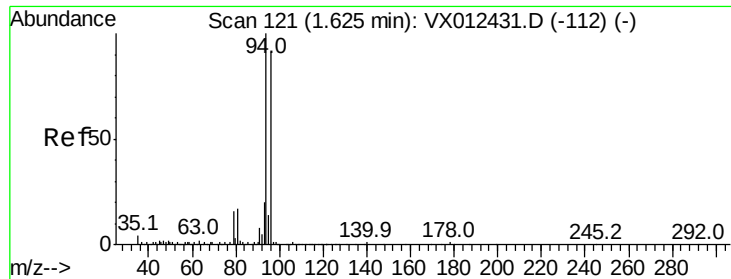
Tot Ion:168 Resp: 180077
Ion Ratio Lower Upper
168 100
99 64.3 51.4 77.2



#2
Dichlorodifluoromethane
Concen: 0.410 ug/l
RT: 1.20 min Scan# 51
Delta R.T. 0.01 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Tgt Ion: 85 Resp: 23
Ion Ratio Lower Upper
85 100
87 82.3 15.6 46.8#





#5

Bromomethane

Concen: 0.642 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

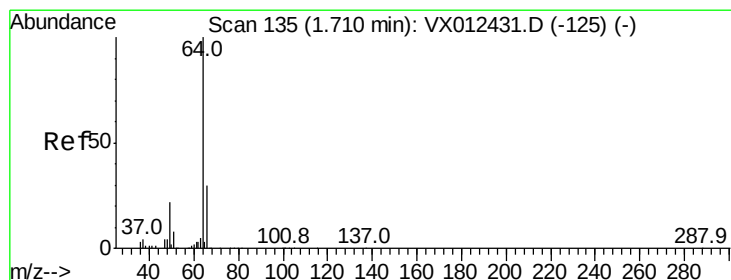
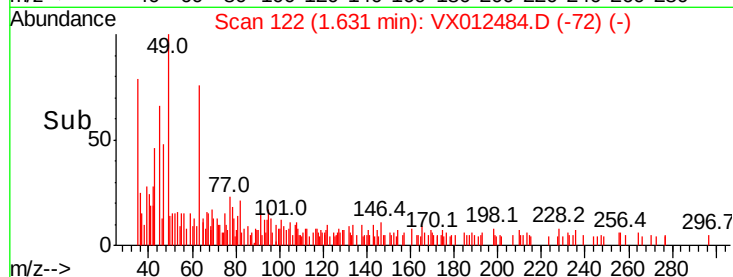
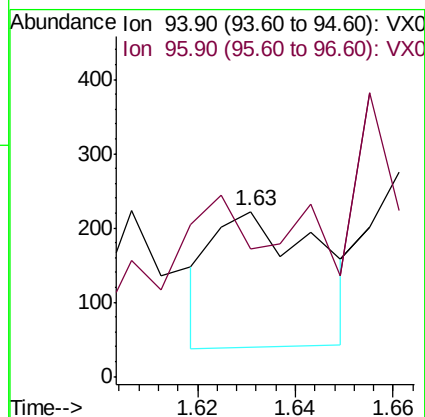
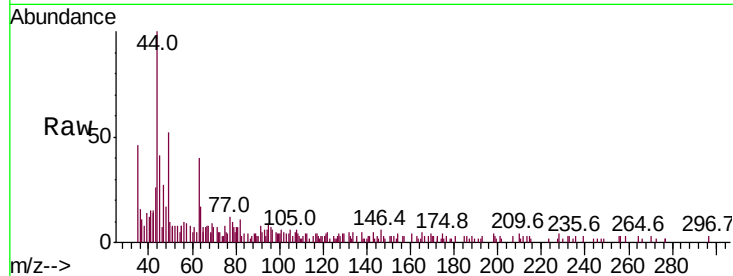
RE103D3-20190909DL

Tot Ion: 94 Resp: 270

Ion Ratio Lower Upper

94 100

96 242.7 72.8 109.2#



#6

Chloroethane

Concen: 0.491 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012484.D

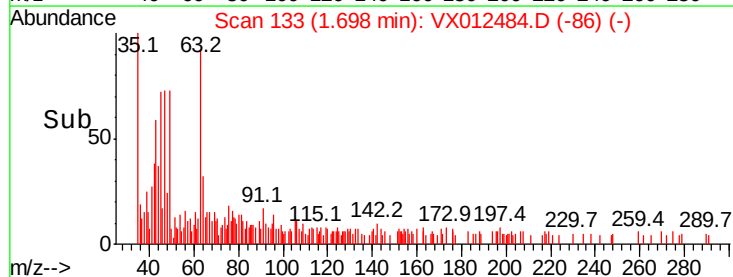
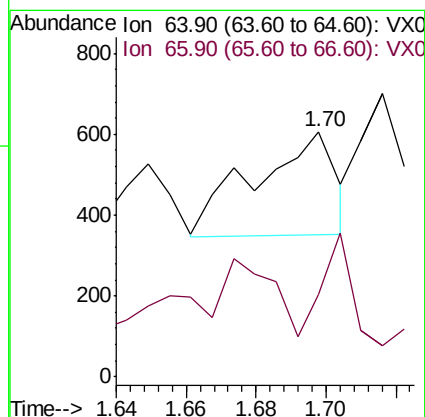
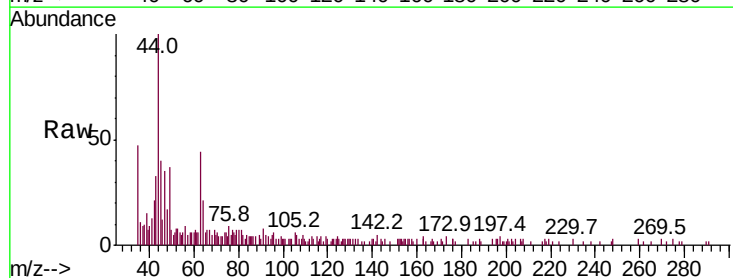
Acq: 18 Sep 2019 19:18

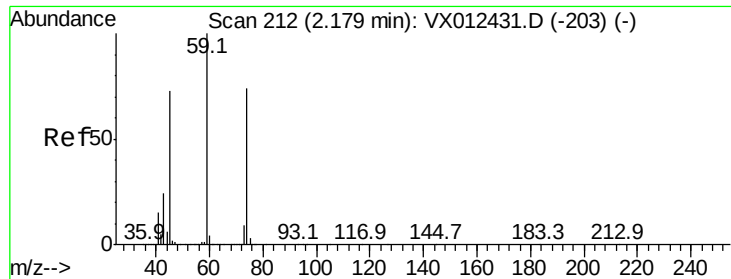
Tgt Ion: 64 Resp: 411

Ion Ratio Lower Upper

64 100

66 2.4 24.0 36.0#





#8

Diethyl Ether

Concen: 0.266 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

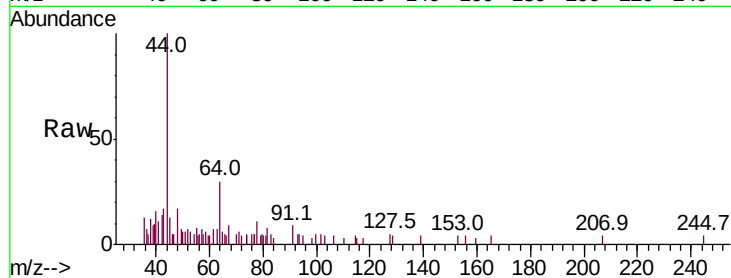
RE103D3-20190909DL

Tot Ion: 74 Resp: 236

Ion Ratio Lower Upper

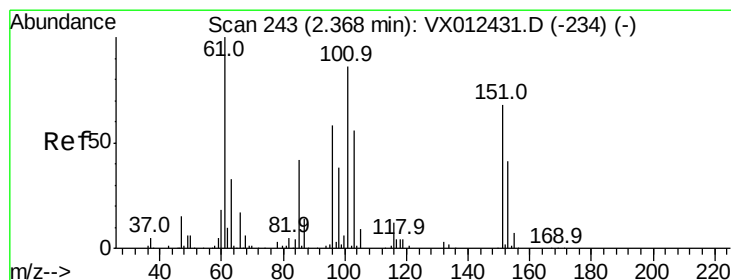
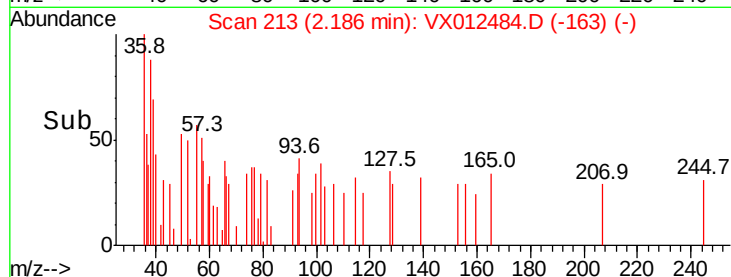
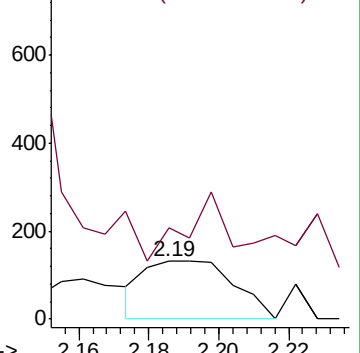
74 100

45 56.8 49.9 149.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.489 ug/l

RT: 2.36 min Scan# 241

Delta R.T. -0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

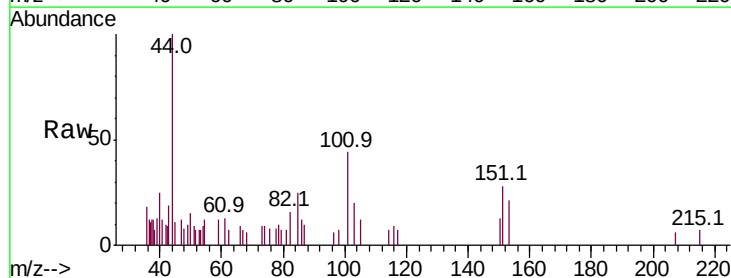
Tgt Ion: 101 Resp: 694

Ion Ratio Lower Upper

101 100

85 57.8 37.3 55.9#

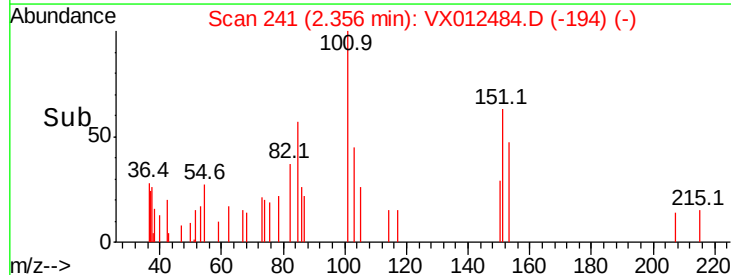
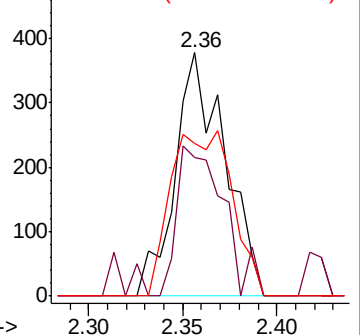
151 83.3 61.0 91.4

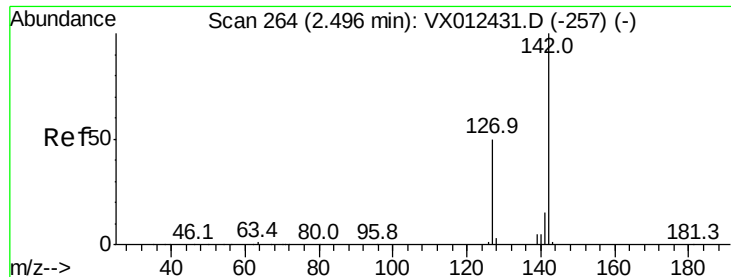


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

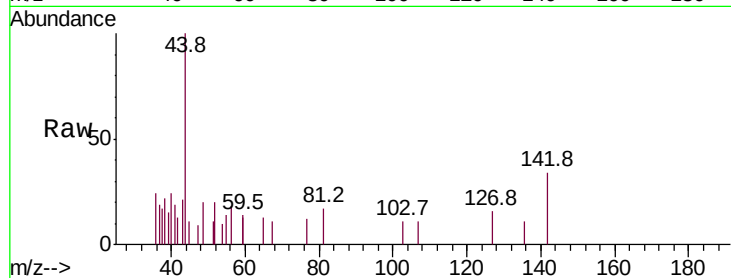




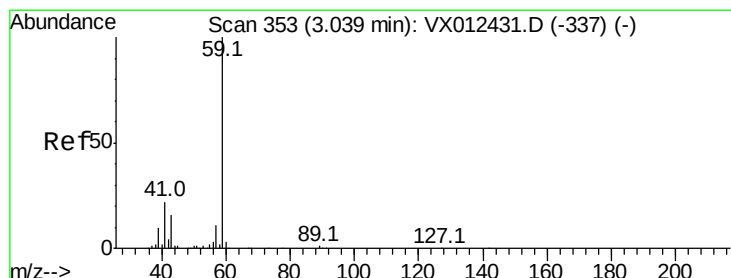
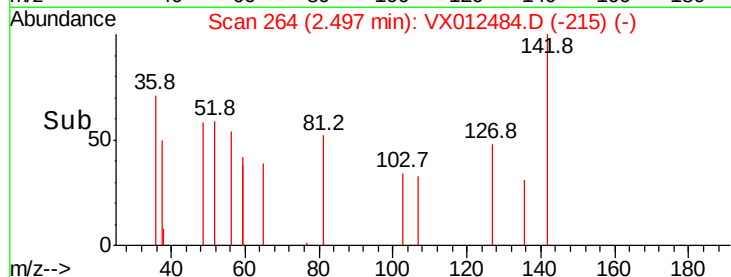
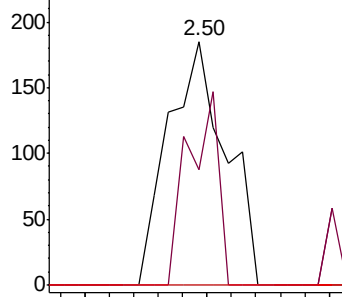
#10
Methvl Iodide
Concen: 4.670 ug/l
RT: 2.50 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20190909DL

Tot Ion:142 Resp: 304
Ion Ratio Lower Upper
142 100
127 41.8 40.8 61.2
141 0.0 12.1 18.1#

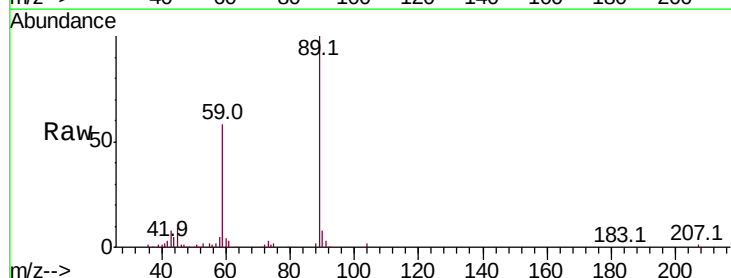


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

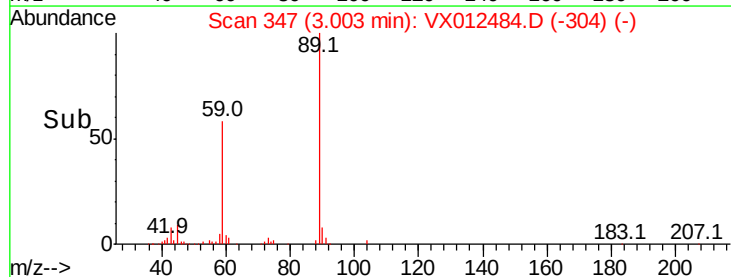
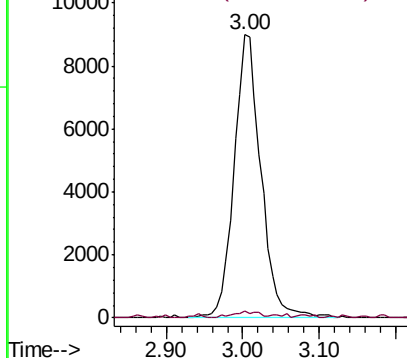


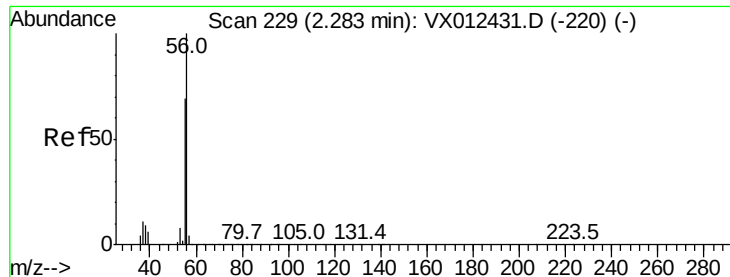
#11
Tert butyl alcohol
Concen: 28.129 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Tgt Ion: 59 Resp: 21821
Ion Ratio Lower Upper
59 100
57 2.3 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

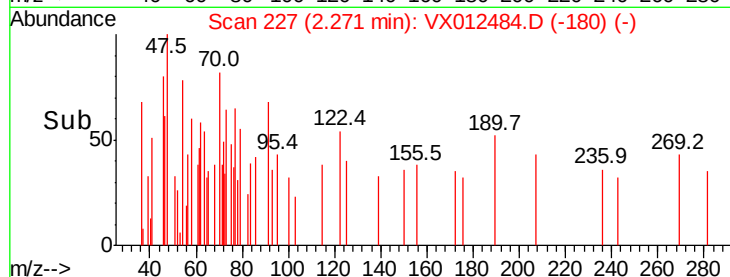
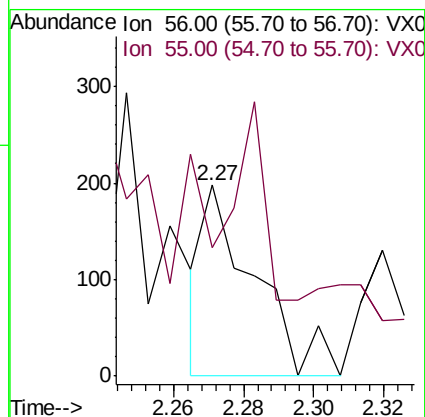
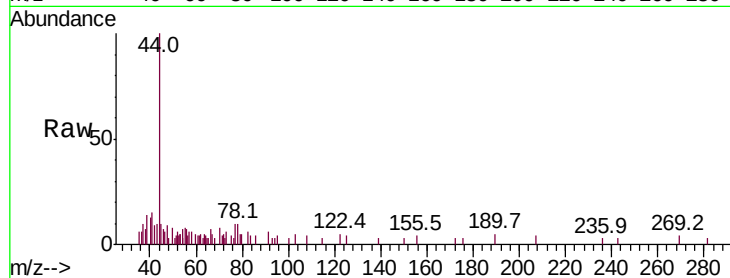
RE103D3-20190909DL

Tot Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#15

Acrylonitrile

Concen: 0.234 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

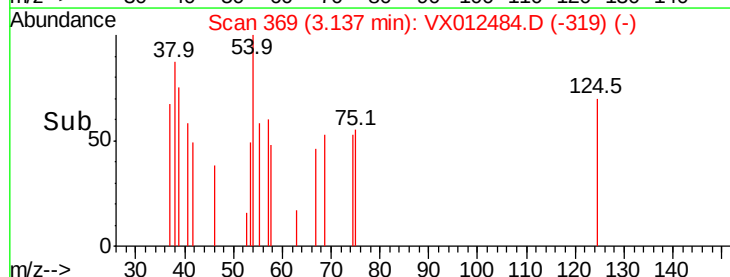
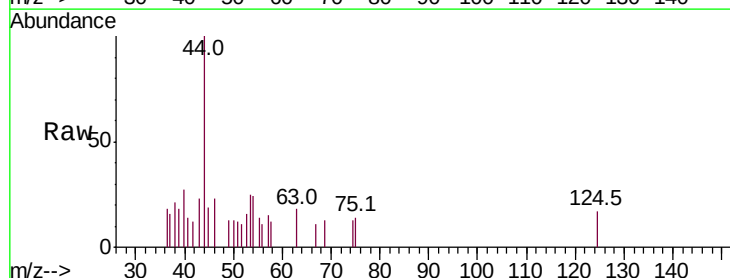
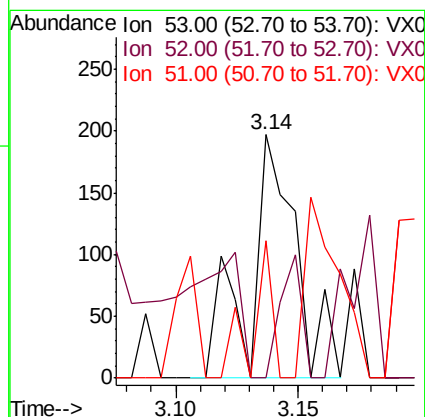
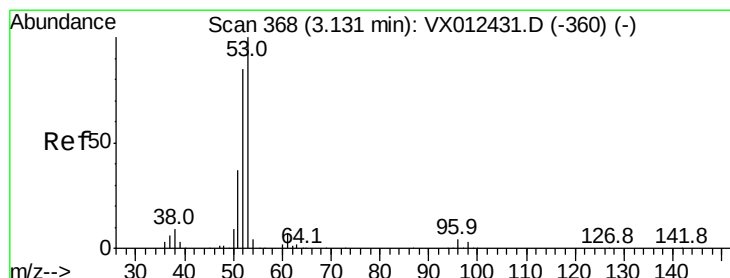
Tgt Ion: 53 Resp: 262

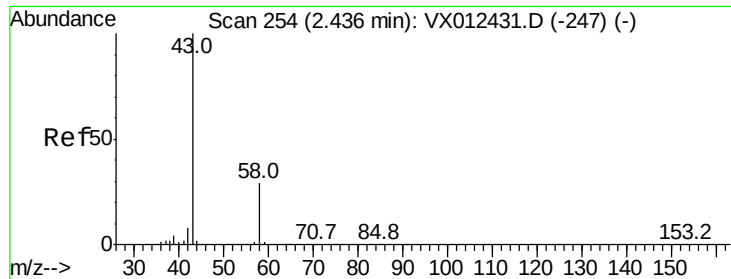
Ion Ratio Lower Upper

53 100

52 47.7 67.0 100.4#

51 23.3 29.6 44.4#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

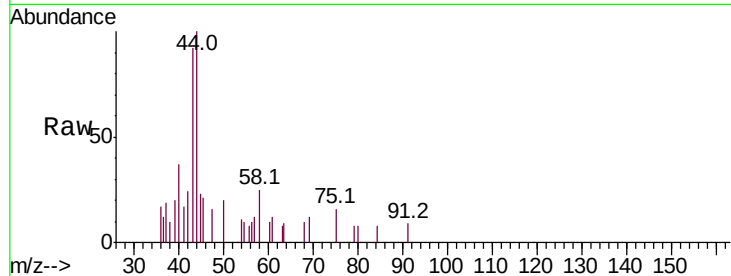
RE103D3-20190909DL

Tot Ion: 43 Resp: 1308

Ion Ratio Lower Upper

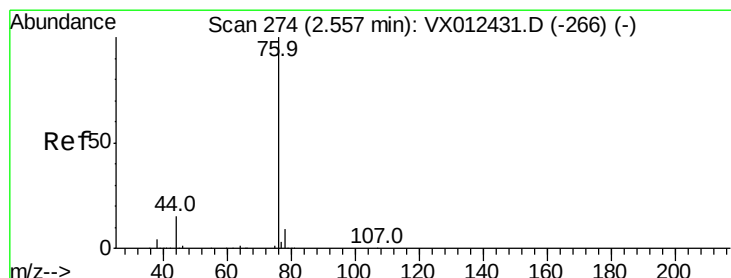
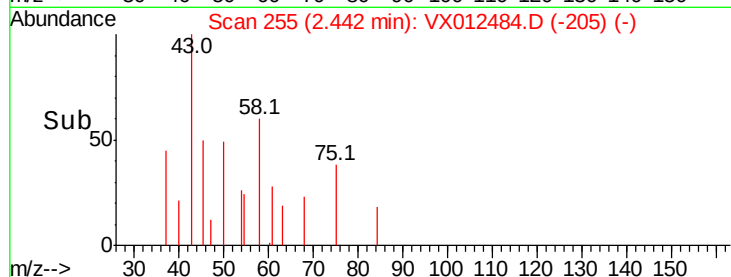
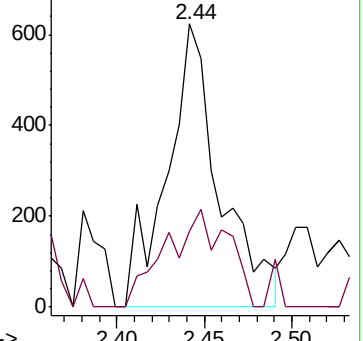
43 100

58 27.0 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.923 ug/l

RT: 2.55 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX012484.D

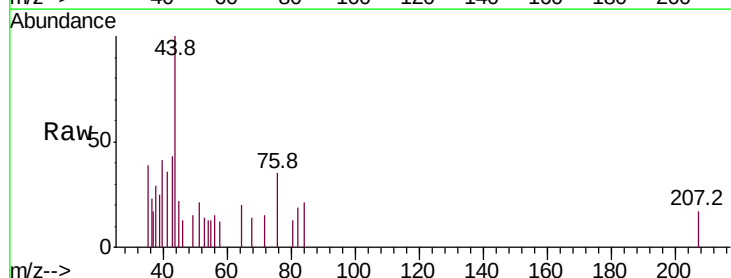
Acq: 18 Sep 2019 19:18

Tgt Ion: 76 Resp: 193

Ion Ratio Lower Upper

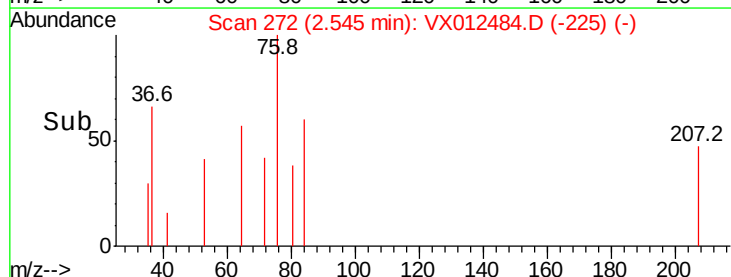
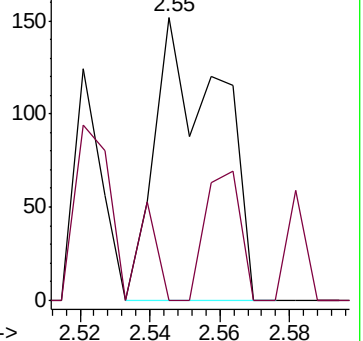
76 100

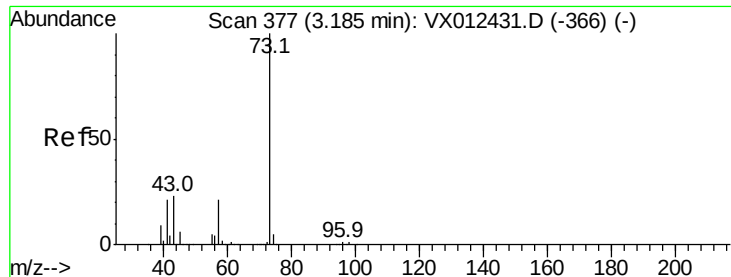
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#19

Methyl tert-butyl Ether

Concen: 0.227 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.18 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

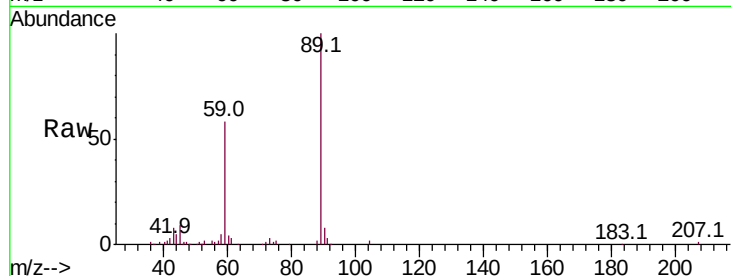
RE103D3-20190909DL

Tot Ion: 73 Resp: 1401

Ion Ratio Lower Upper

73 100

57 45.0 16.8 25.2#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

500

400

300

200

100

0

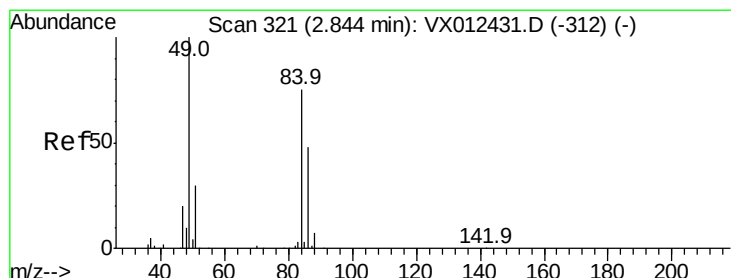
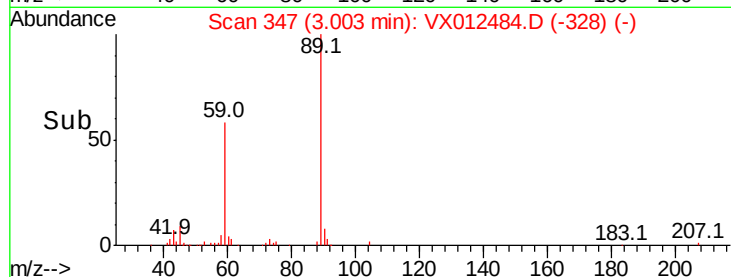
2.95

3.00

3.05

3.10

Time-->



#20

Methylene Chloride

Concen: 0.332 ug/l

RT: 2.83 min Scan# 319

Delta R.T. -0.01 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Tgt Ion: 84 Resp: 518

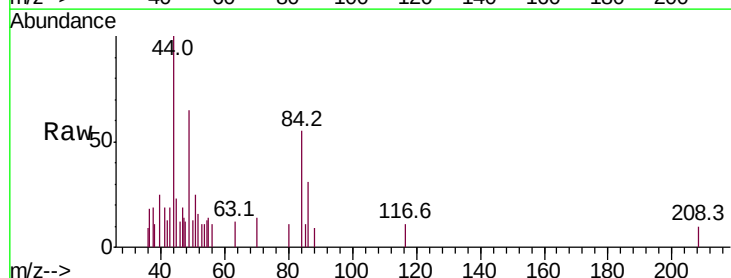
Ion Ratio Lower Upper

84 100

49 90.8 106.8 160.2#

51 46.4 32.3 48.5

86 57.2 51.3 76.9



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

800

600

400

200

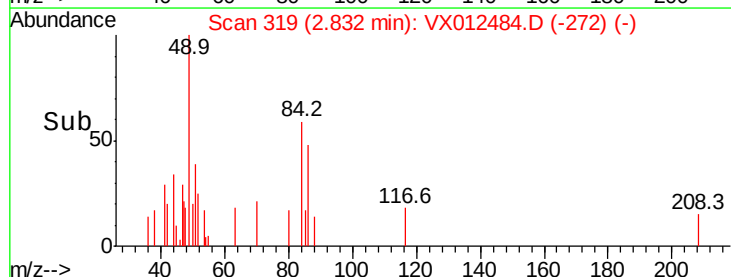
0

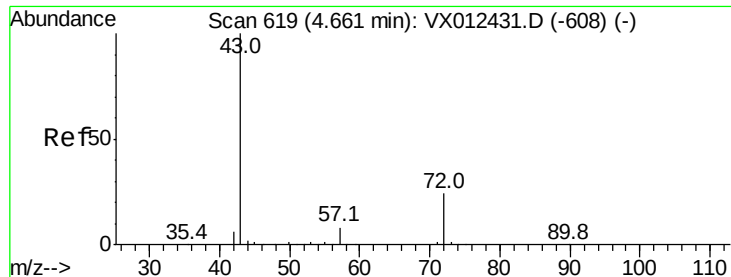
2.80

2.83

2.85

Time-->





#25

2-Butanone

Concen: 0.395 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

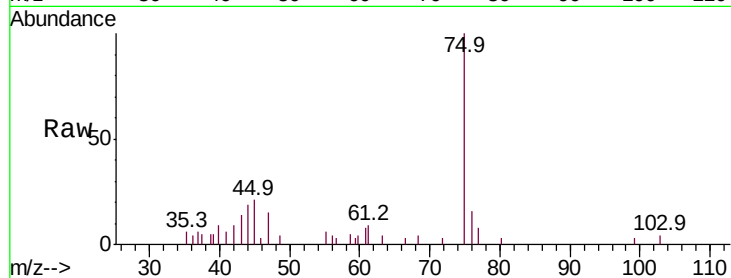
RE103D3-20190909DL

Tot Ion: 43 Resp: 708

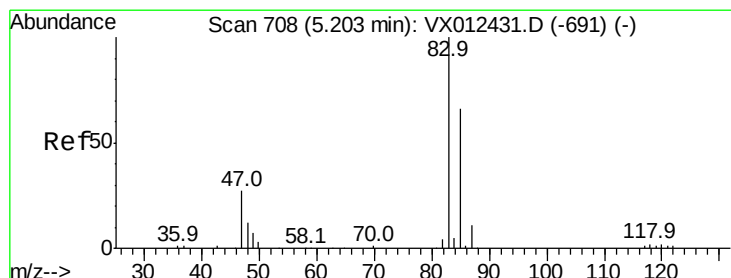
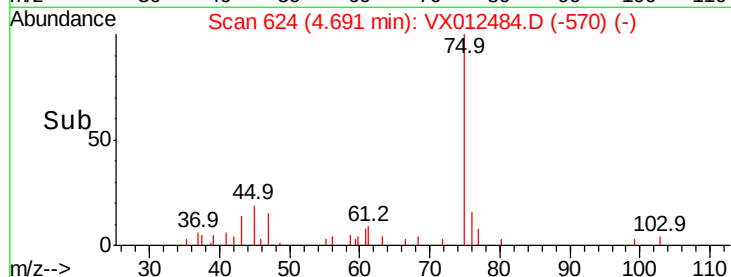
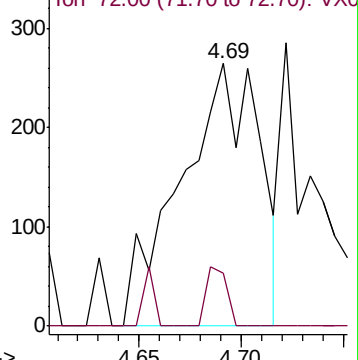
Ion Ratio Lower Upper

43 100

72 20.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0



#30

Chloroform

Concen: 0.215 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX012484.D

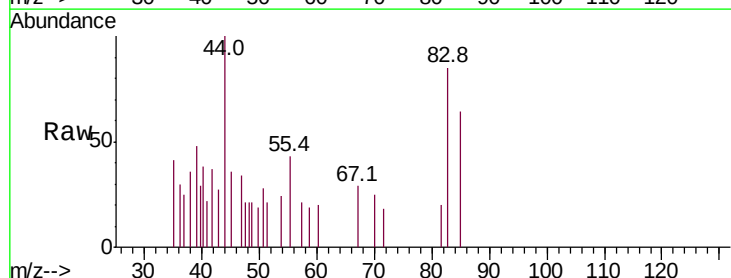
Acq: 18 Sep 2019 19:18

Tgt Ion: 83 Resp: 728

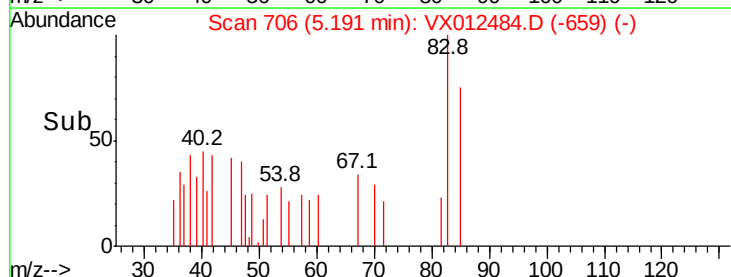
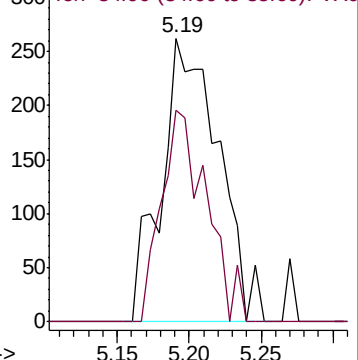
Ion Ratio Lower Upper

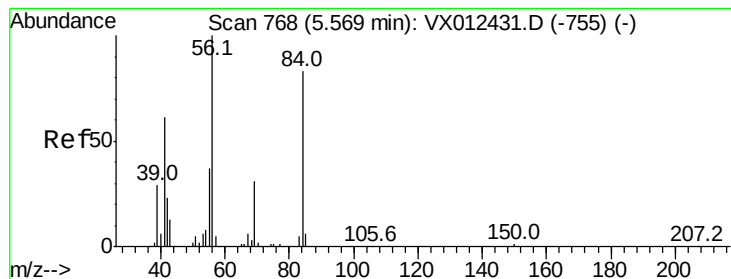
83 100

85 74.8 53.0 79.4



Abundance Ion 82.90 (82.60 to 83.60): VX0





#31

Cyclohexane

Concen: 2.493 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

RE103D3-20190909DL

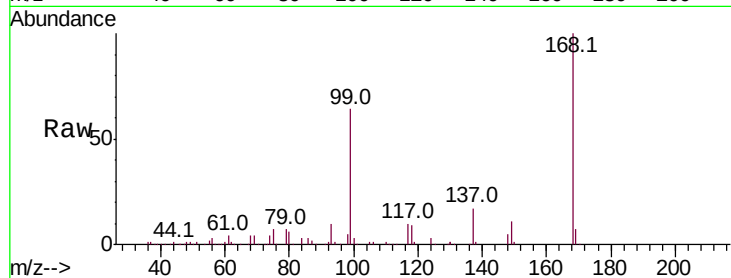
Tot Ion: 56 Resp: 4443

Ion Ratio Lower Upper

56 100

69 150.5 25.0 37.6#

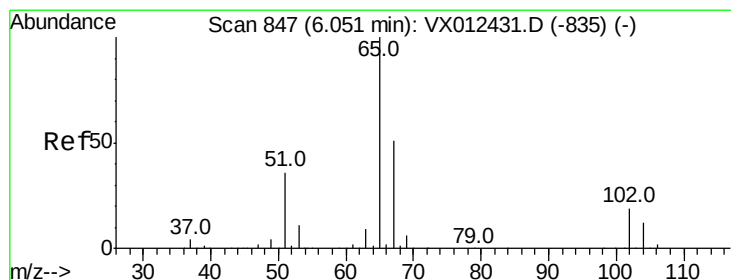
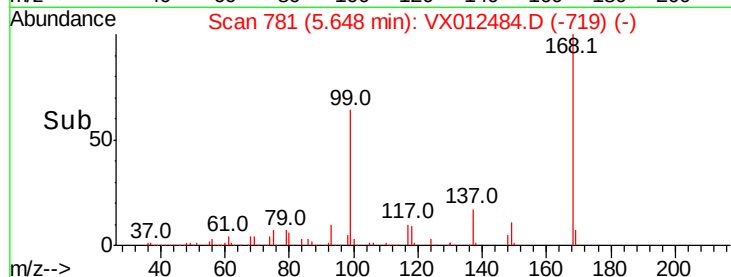
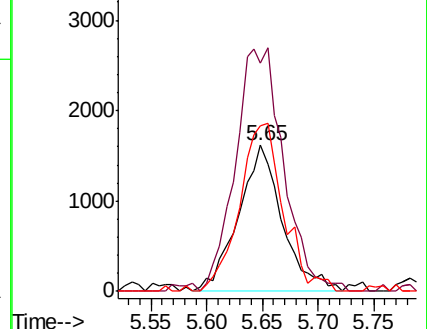
84 113.6 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.820 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012484.D

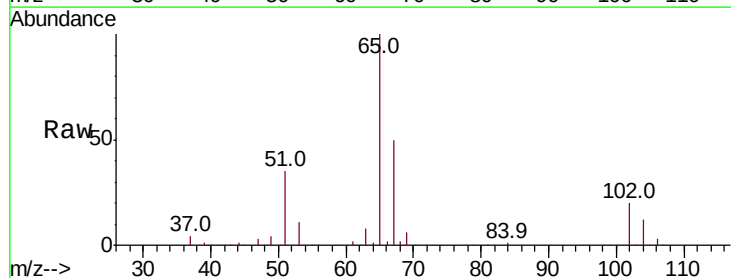
Acq: 18 Sep 2019 19:18

Tgt Ion: 65 Resp: 118255

Ion Ratio Lower Upper

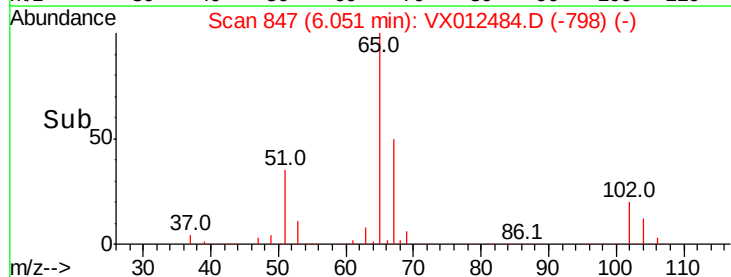
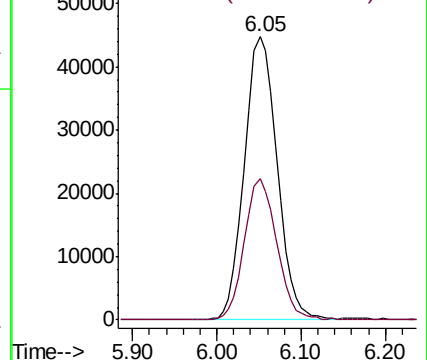
65 100

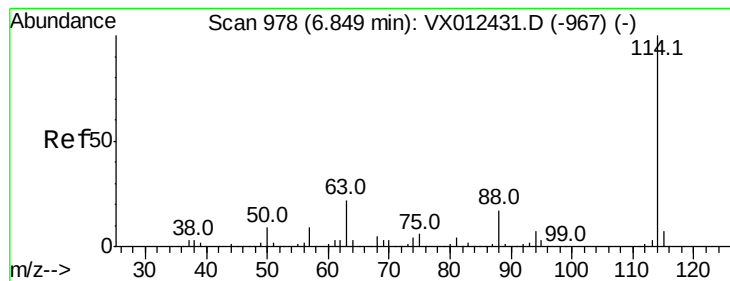
67 49.0 0.0 101.2



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# 978

Delta R.T. 0.00 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

RE103D3-20190909DL

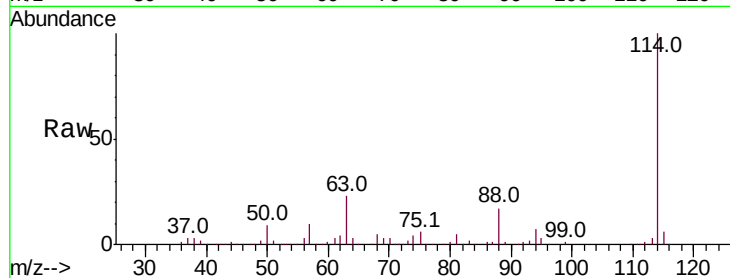
Tot Ion:114 Resp: 277204

Ion Ratio Lower Upper

114 100

63 23.3 0.0 43.2

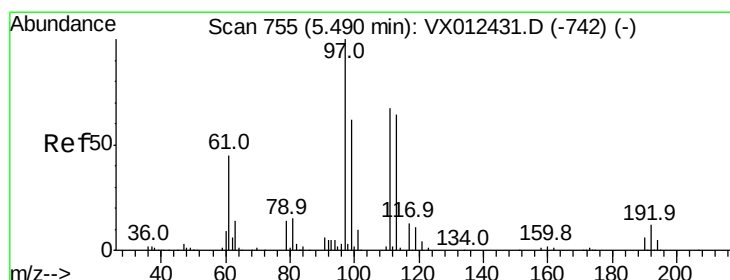
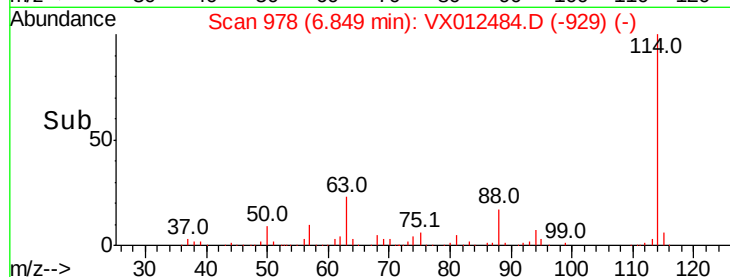
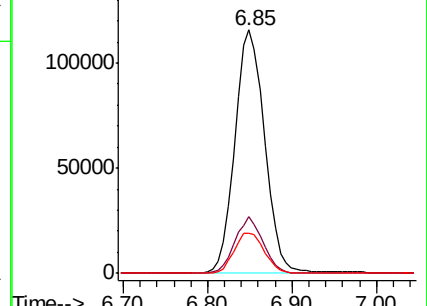
88 16.5 0.0 33.2



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: 49.596 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

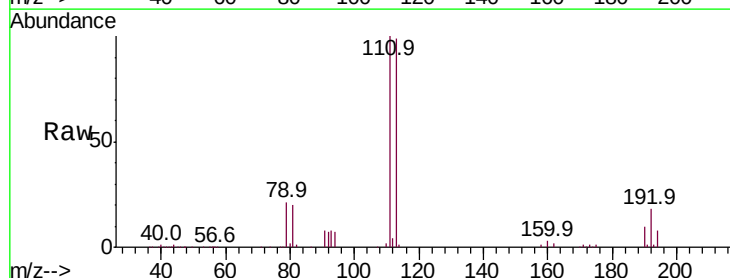
Tgt Ion:113 Resp: 83213

Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.2

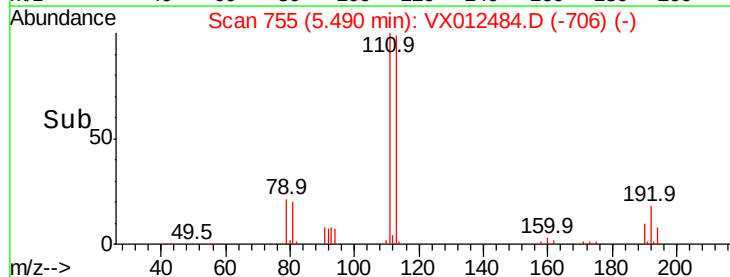
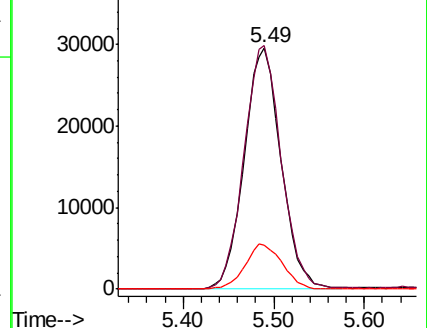
192 18.7 14.4 21.6

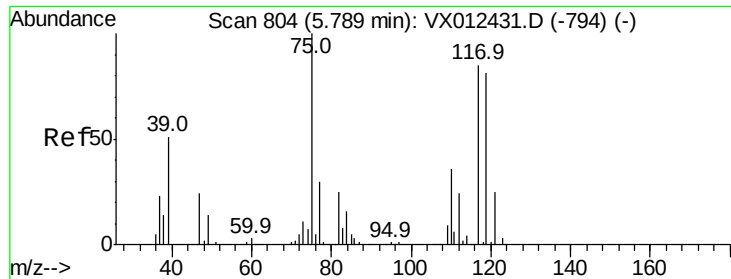


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

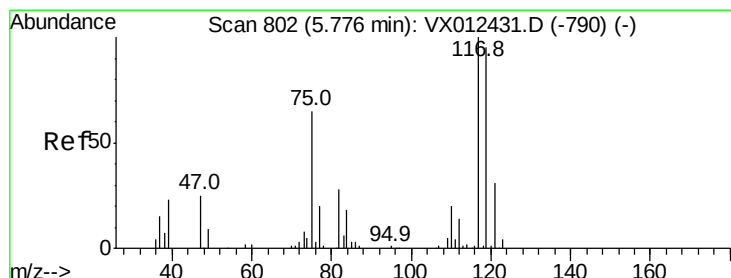
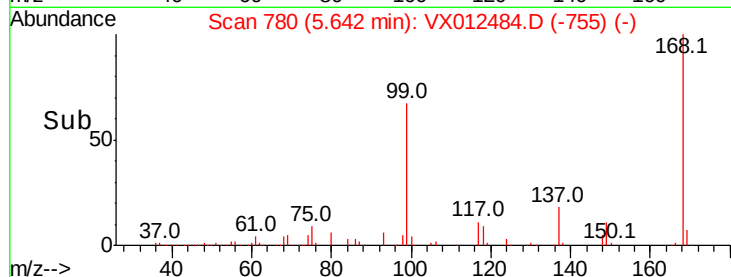
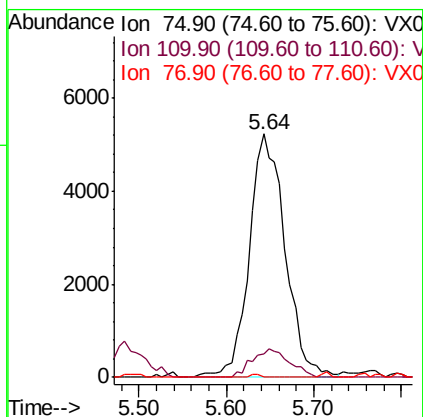
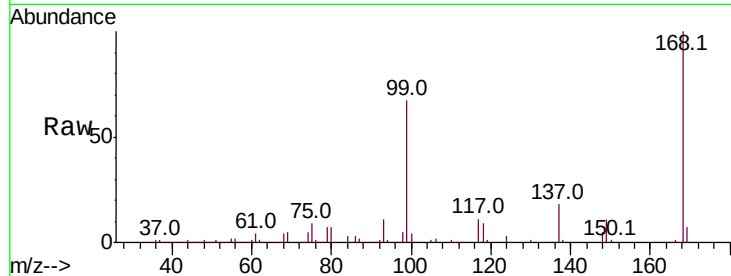




#36
 1,1-Dichloropropene
 Concen: 8.803 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012484.D
 Acq: 18 Sep 2019 19:18

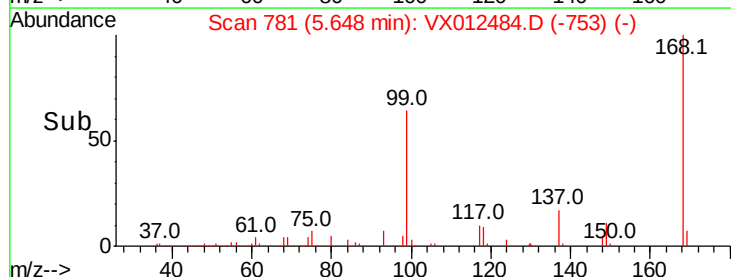
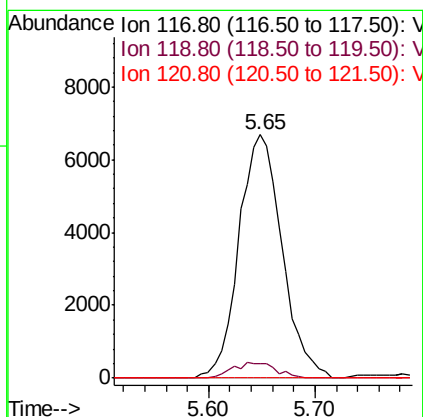
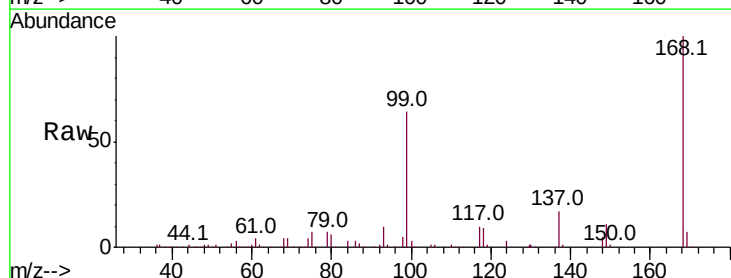
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D3-20190909DL

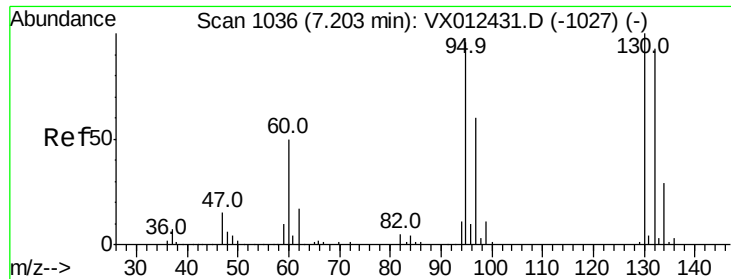
Tot Ion: 75 Resp: 14830
 Ion Ratio Lower Upper
 75 100
 110 12.2 16.7 50.0#
 77 0.3 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 9.056 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012484.D
 Acq: 18 Sep 2019 19:18

Tgt Ion: 117 Resp: 18975
 Ion Ratio Lower Upper
 117 100
 119 5.8 75.7 113.5#
 121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 68.388 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

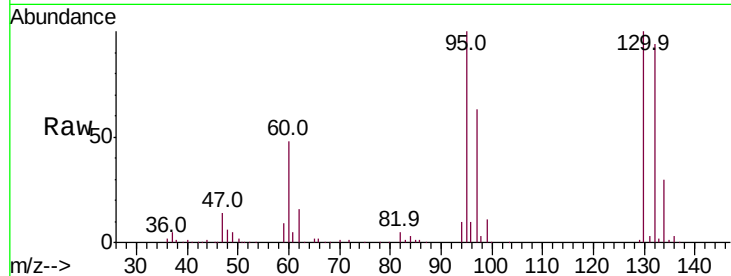
RE103D3-20190909DL

Tot Ion:130 Resp: 96376

Ion Ratio Lower Upper

130 100

95 100.4 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

50000

40000

30000

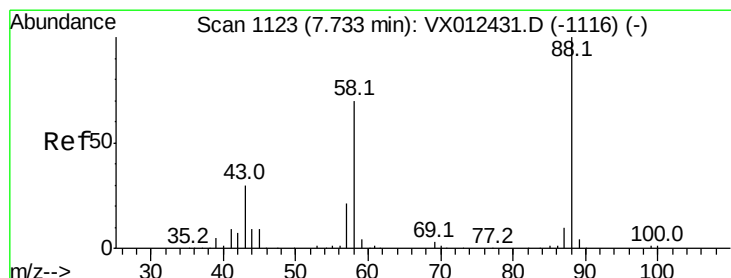
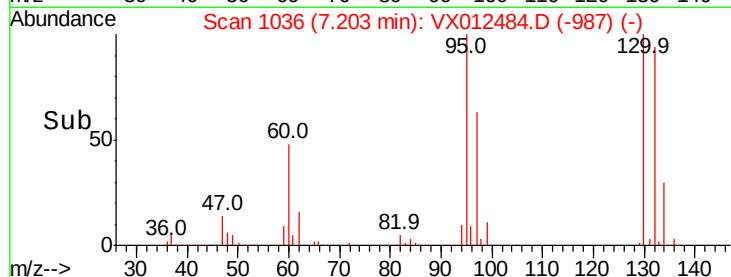
20000

10000

0

Time-->

7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 1.127 ug/l

RT: 7.58 min Scan# 1098

Delta R.T. -0.15 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

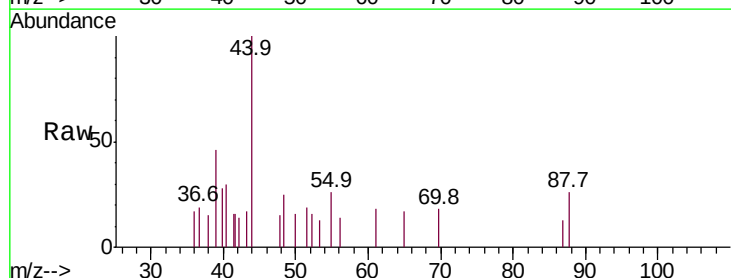
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 65.0 29.4 44.0#

58 33.3 57.5 86.3#



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

150

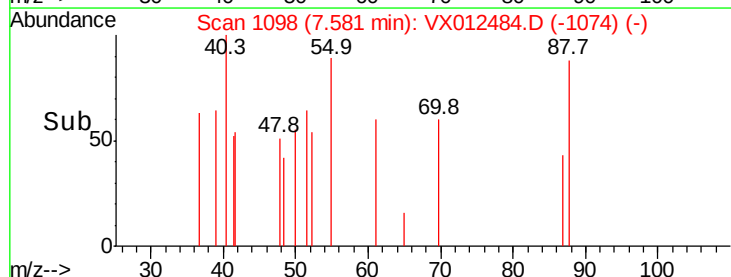
100

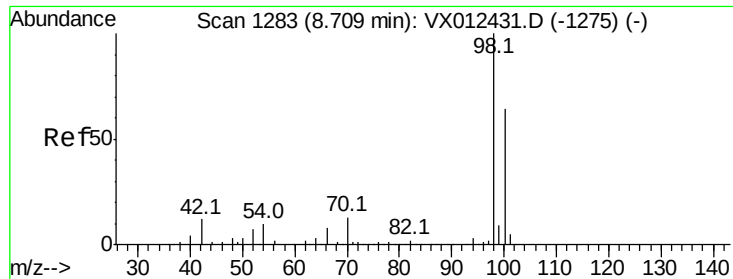
50

0

Time-->

7.56 7.58 7.60

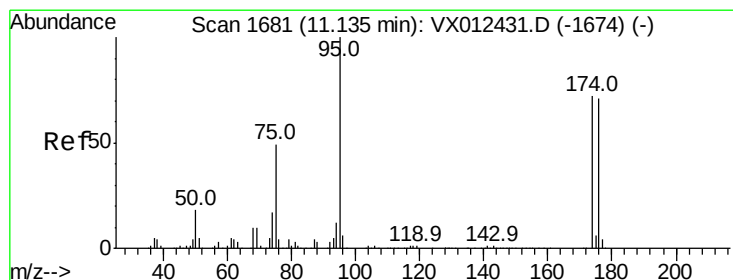
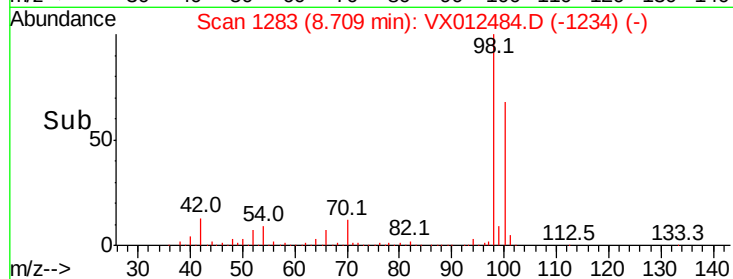
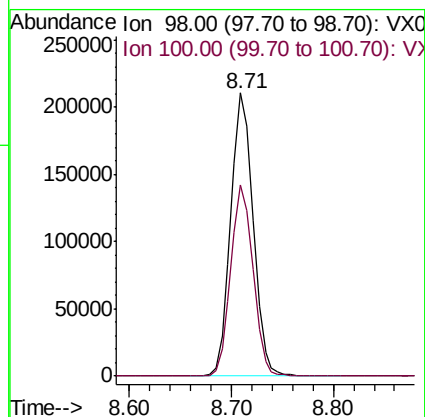
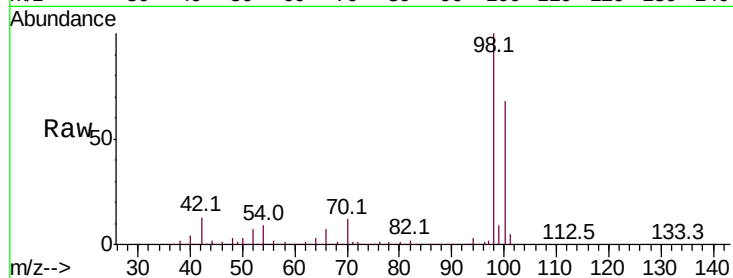




#50
Toluene-d8
Concen: 51.611 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

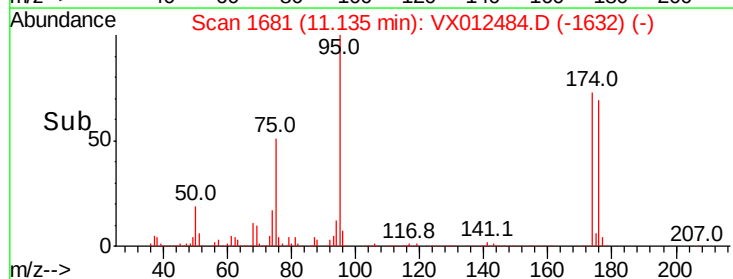
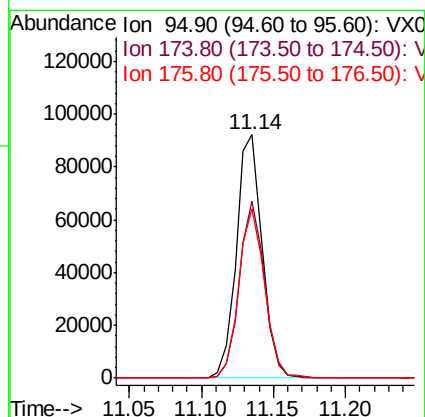
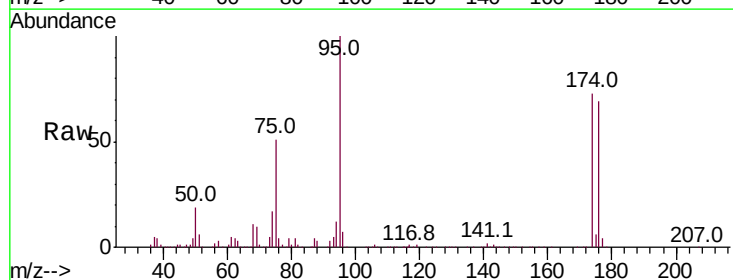
Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20190909DL

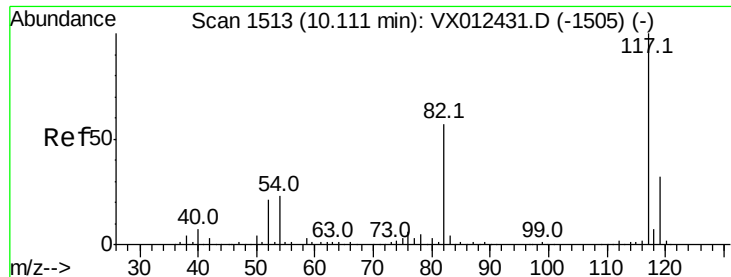
Tot Ion: 98 Resp: 320519
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 44.930 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Tgt Ion: 95 Resp: 115854
Ion Ratio Lower Upper
95 100
174 70.6 0.0 140.0
176 69.2 0.0 135.4

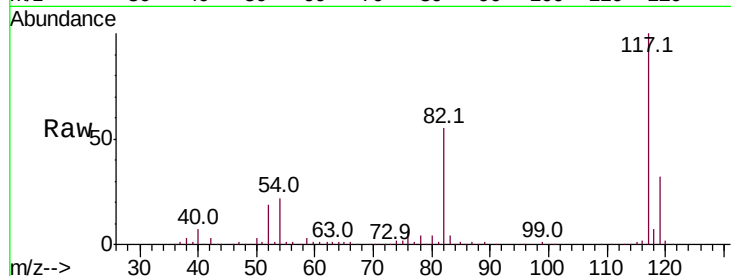




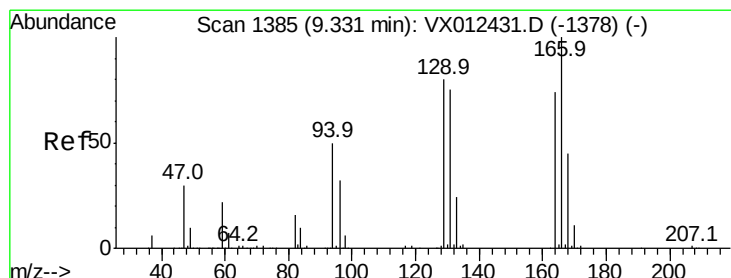
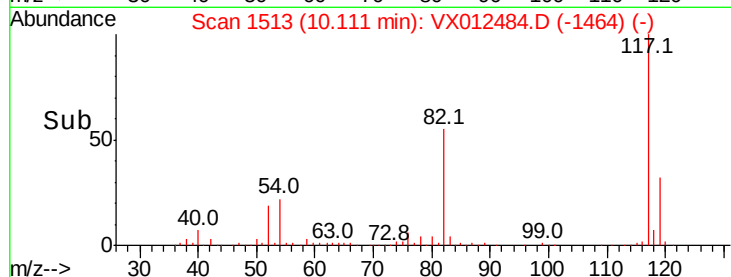
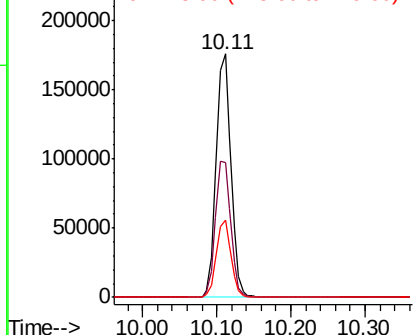
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20190909DL

Tot Ion:117 Resp: 239696
Ion Ratio Lower Upper
117 100
82 55.3 45.9 68.9
119 31.7 25.3 37.9

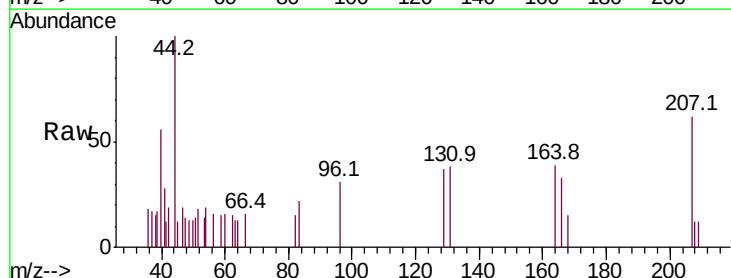


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

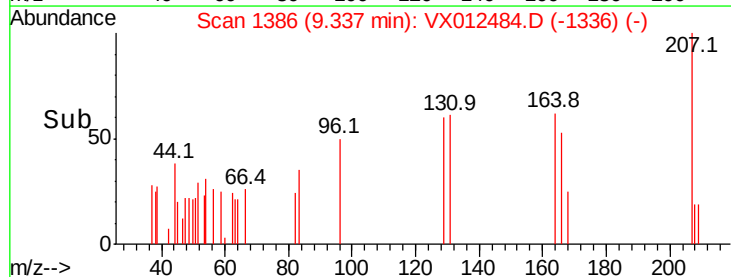
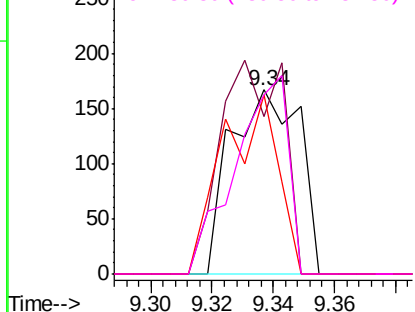


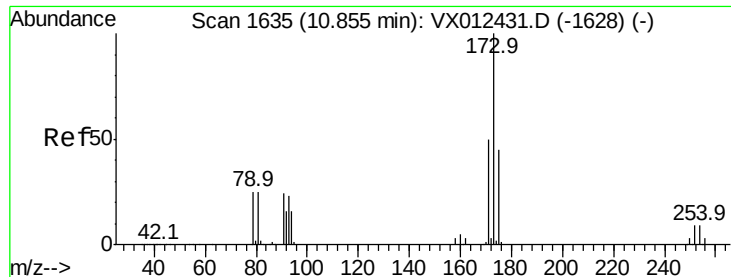
#64
Tetrachloroethene
Concen: 0.237 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Tgt Ion:164 Resp: 260
Ion Ratio Lower Upper
164 100
166 85.6 107.8 161.6#
129 97.0 86.2 129.2
131 97.6 80.4 120.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

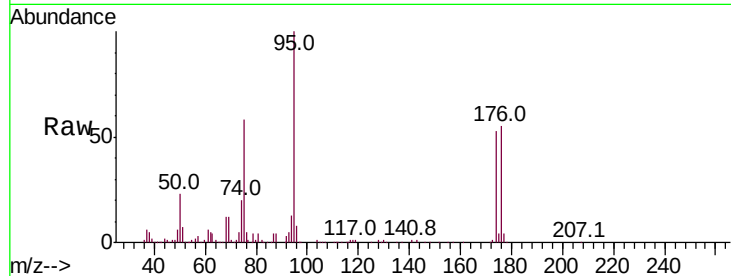




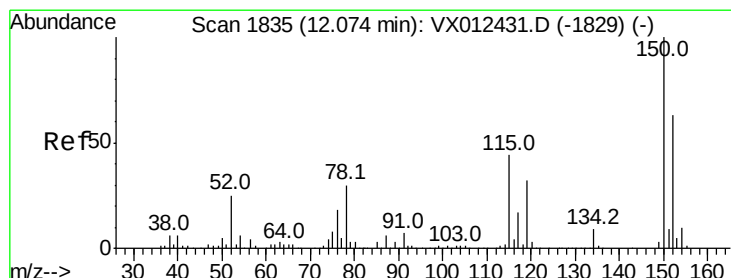
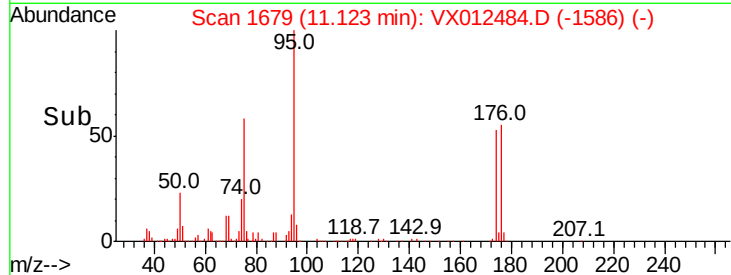
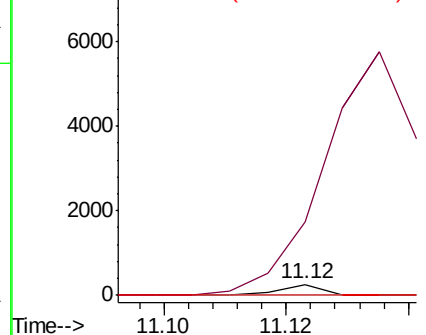
#71
Bromoform
Concen: 2.952 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20190909DL

Tot Ion:173 Resp: 124
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.1 0.1#

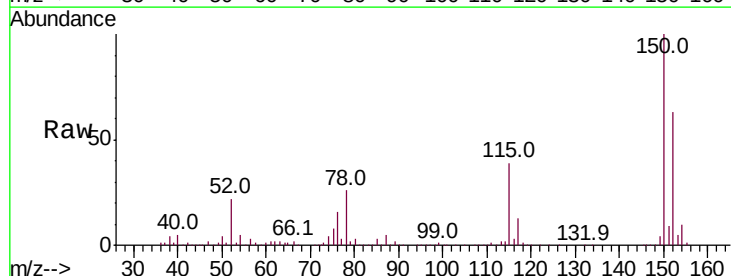


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

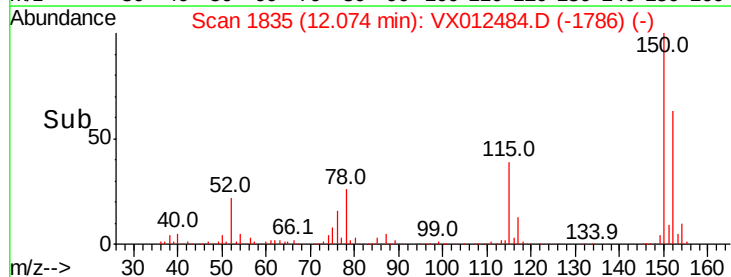
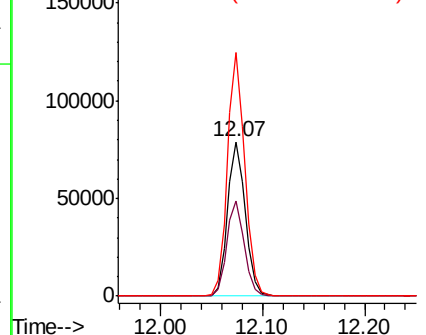


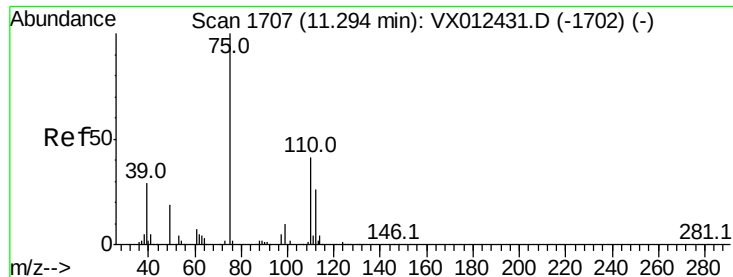
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012484.D
Acq: 18 Sep 2019 19:18

Tgt Ion:152 Resp: 95626
Ion Ratio Lower Upper
152 100
115 61.3 44.1 132.3
150 154.5 0.0 343.8



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: 27.411 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

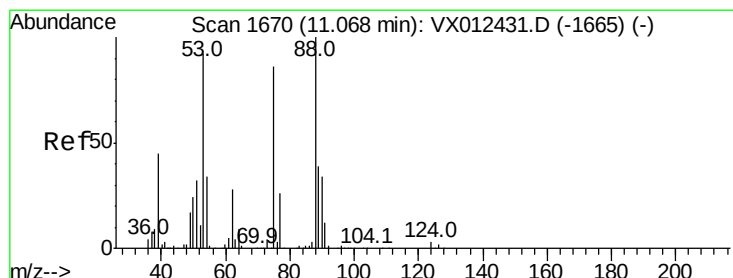
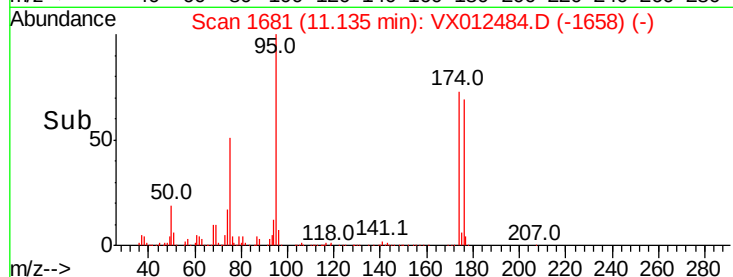
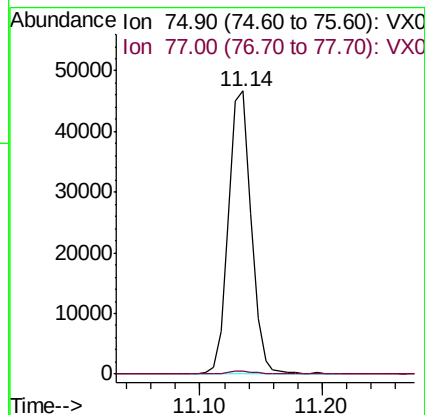
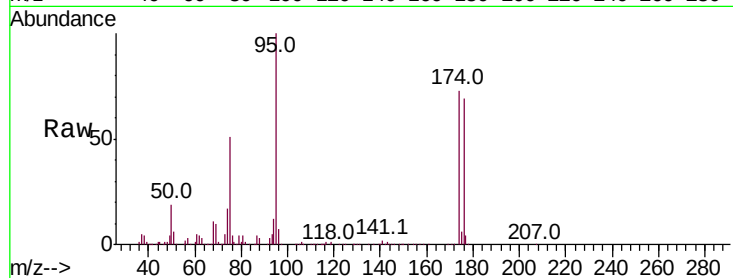
RE103D3-20190909DL

Tot Ion: 75 Resp: 60210

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.688 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012484.D

Acq: 18 Sep 2019 19:18

Tgt Ion: 75 Resp: 60210

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#

