

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032720\
 Data File : VX015387.D
 Acq On : 27 Mar 2020 17:21
 Operator : JC/SP
 Sample : L1997-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20200316

Quant Time: Mar 30 01:45:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1164989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1873693	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1795934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	940019	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	761802	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
35) Dibromofluoromethane	5.47	113	587480	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	8.70	98	2263768	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.12	95	980509	54.71	ug/l	0.00
Spiked Amount			Recovery	=	109.42%	

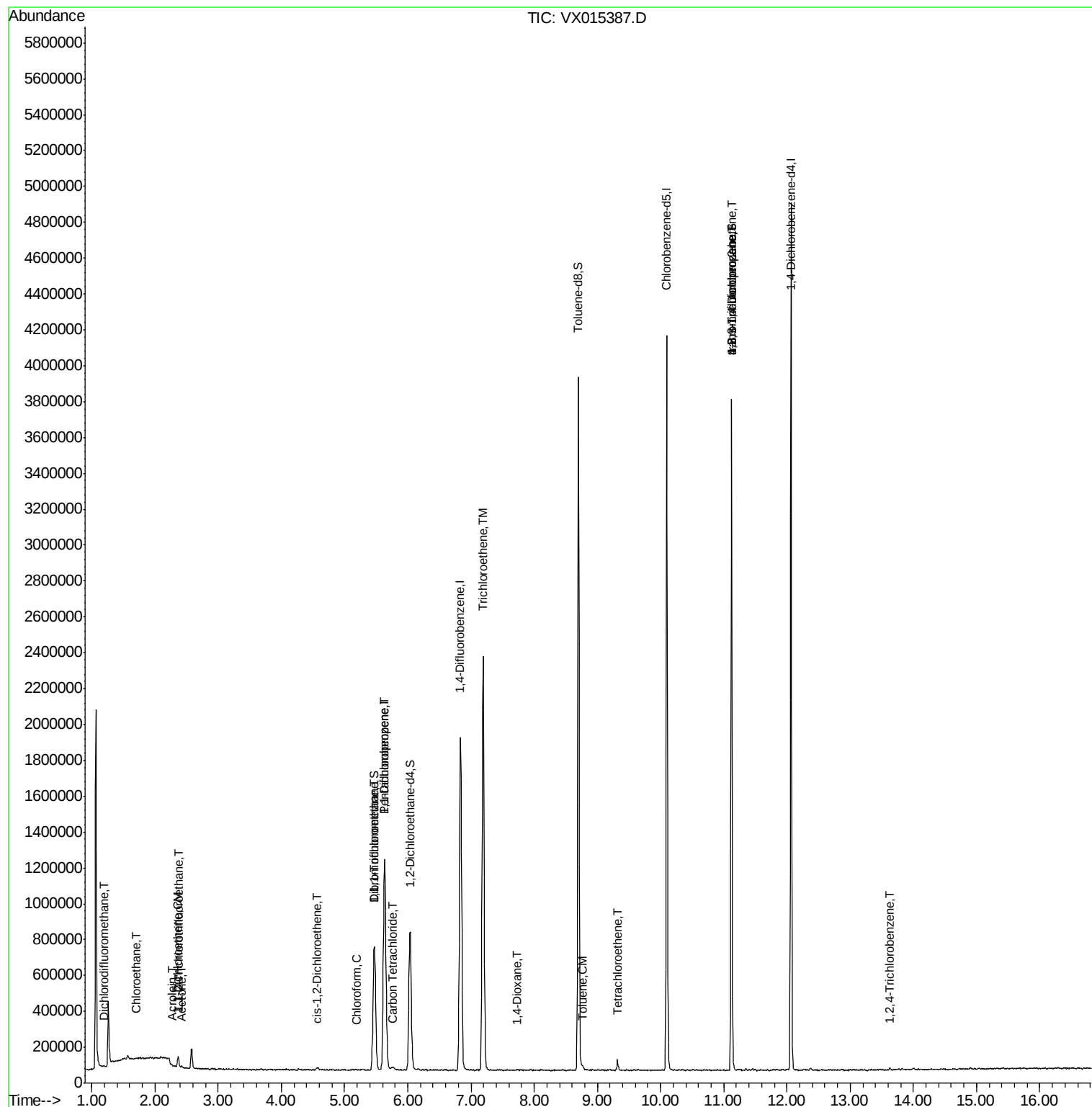
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	2332	0.227	ug/l	98
5) Bromomethane	1.61	94	395	Below Cal		97
6) Chloroethane	1.72	64	2679	0.360	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.37	101	21724	2.070	ug/l	95
12) 1,1-Dichloroethene	2.36	96	4568	0.415	ug/l	87
13) Acrolein	2.28	56	533	0.238	ug/l #	14
16) Acetone	2.42	43	12998	1.841	ug/l	94
27) cis-1,2-Dichloroethene	4.56	96	7562	0.535	ug/l	87
30) Chloroform	5.19	83	4629	0.201	ug/l	92
32) 1,1,1-Trichloroethane	5.47	97	6793	0.325	ug/l #	52
36) 1,1-Dichloropropene	5.63	75	88512	5.127	ug/l #	51
38) Carbon Tetrachloride	5.76	117	10999	0.588	ug/l	91
44) Trichloroethene	7.19	130	874525	63.408	ug/l	93
49) 1,4-Dioxane	7.73	88	3758	10.628	ug/l #	79
52) Toluene	8.78	92	8465	0.272	ug/l	79
64) Tetrachloroethene	9.32	164	12829	0.947	ug/l #	83
76) 1,2,3-Trichloropropane	11.12	75	507809	26.270	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	507809	63.033	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	4782	0.210	ug/l	81

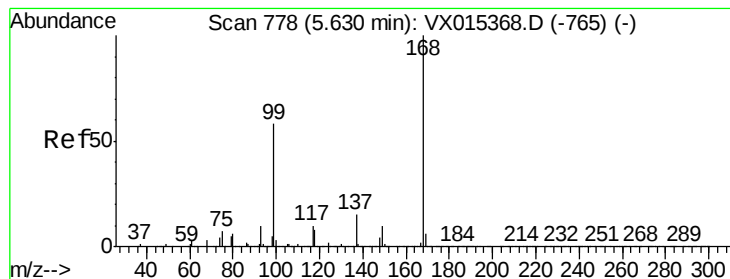
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 27 09:35:51 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

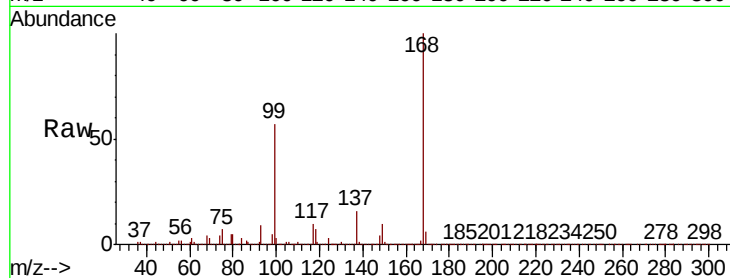
RE109D3-20200316

Tot Ion:168 Resp: 1164989

Ion Ratio Lower Upper

168 100

99 56.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

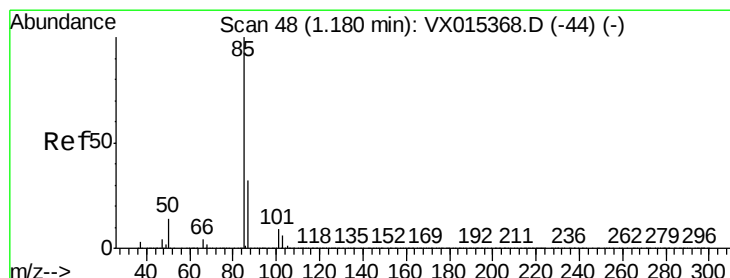
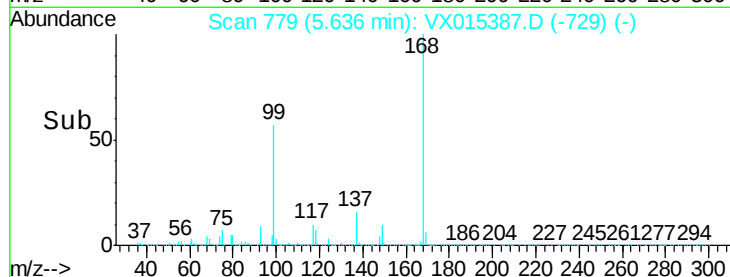
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.227 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.01 min

Lab File: VX015387.D

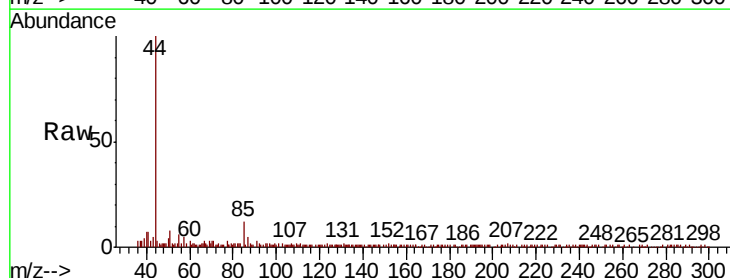
Acq: 27 Mar 2020 17:21

Tgt Ion: 85 Resp: 2332

Ion Ratio Lower Upper

85 100

87 33.0 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

3000

2500

2000

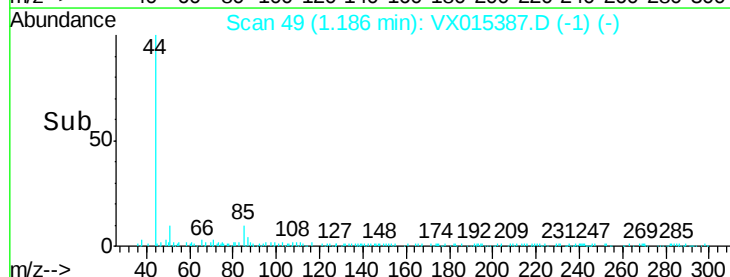
1500

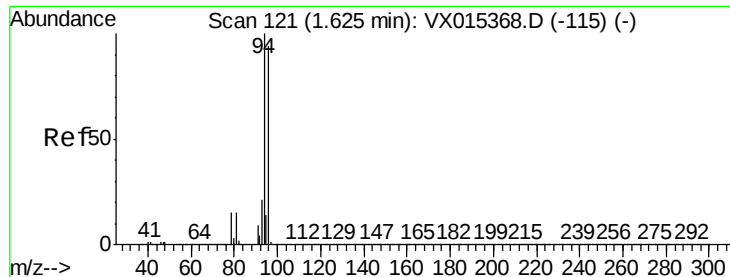
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

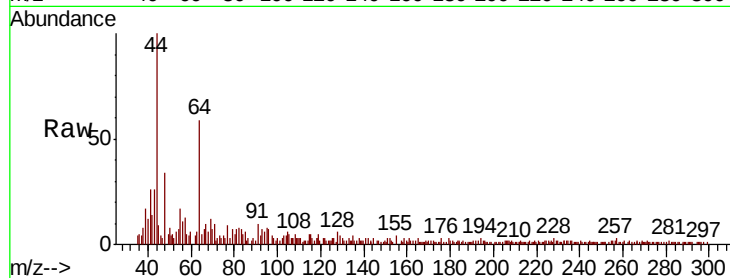
RE109D3-20200316

Tot Ion: 94 Resp: 395

Ion Ratio Lower Upper

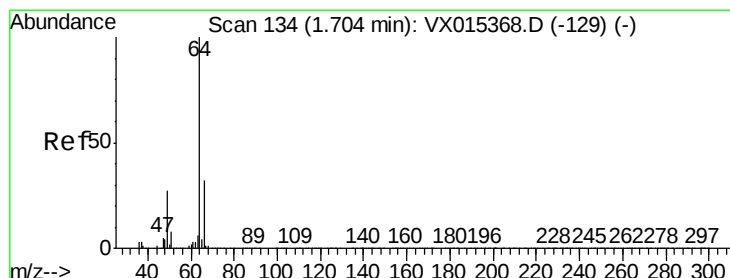
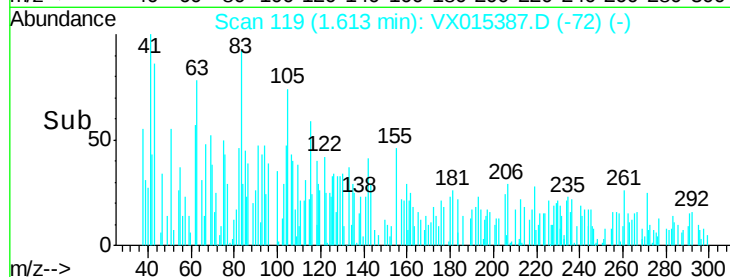
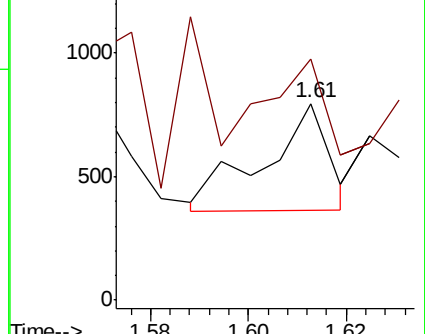
94 100

96 96.5 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.360 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX015387.D

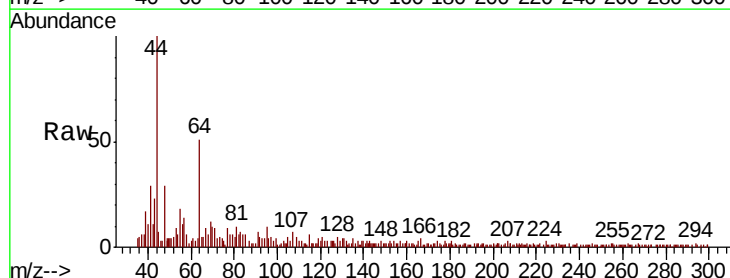
Acq: 27 Mar 2020 17:21

Tgt Ion: 64 Resp: 2679

Ion Ratio Lower Upper

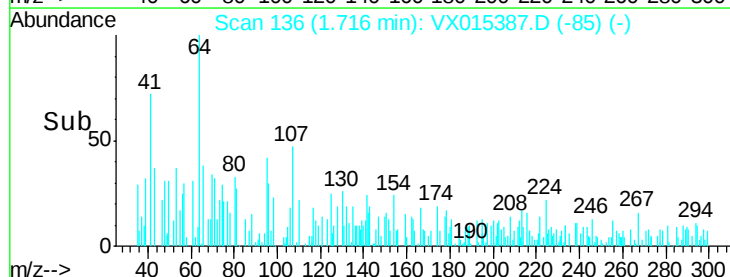
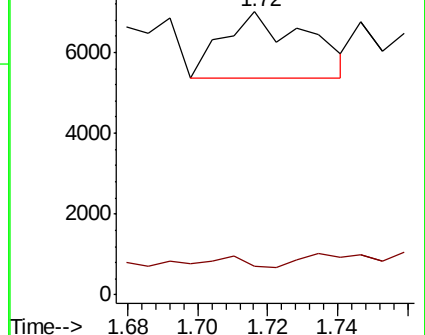
64 100

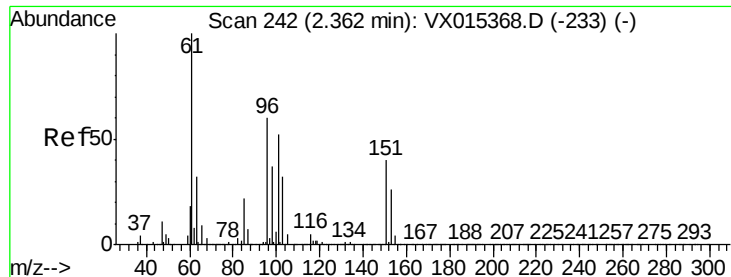
66 0.0 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.070 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20200316

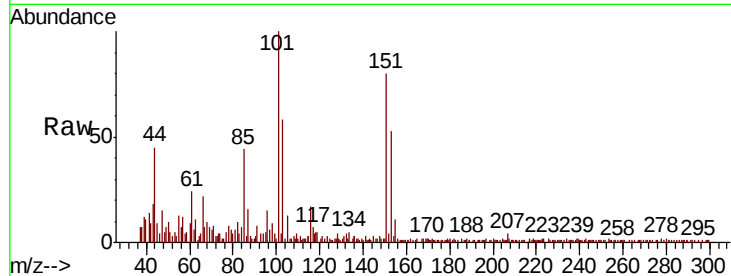
Tot Ion:101 Resp: 21724

Ion Ratio Lower Upper

101 100

85 50.9 35.0 52.4

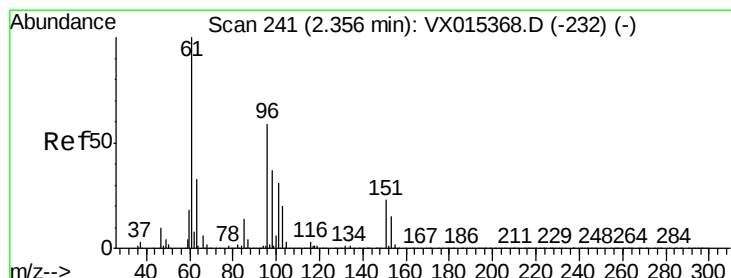
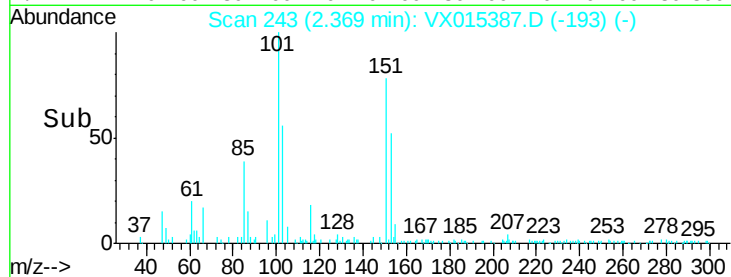
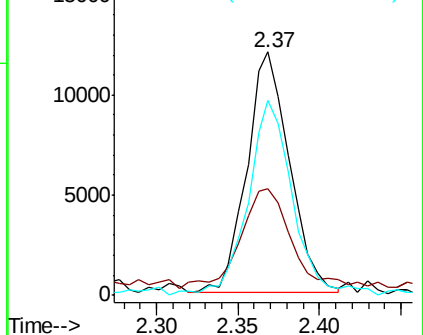
151 79.1 64.1 96.1



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



#12

1,1-Dichloroethene

Concen: 0.415 ug/l

RT: 2.36 min Scan# 241

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

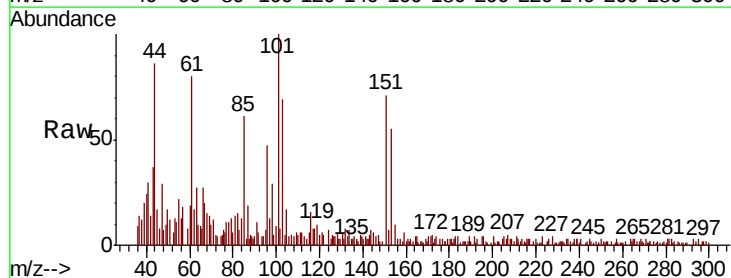
Tgt Ion: 96 Resp: 4568

Ion Ratio Lower Upper

96 100

61 189.8 135.7 203.5

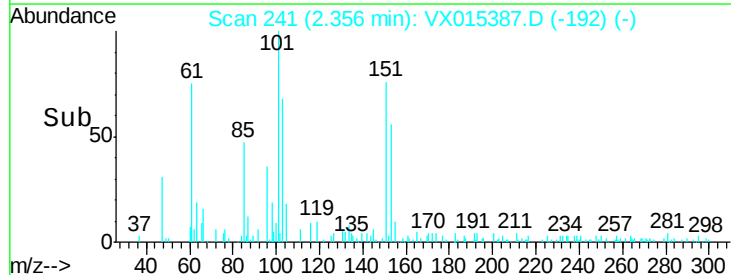
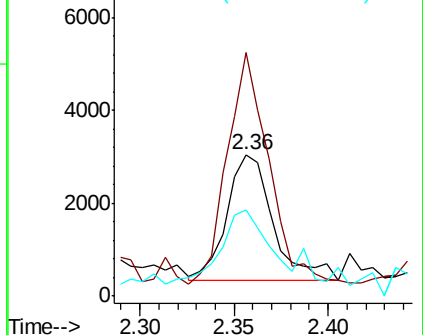
98 56.2 50.6 75.8

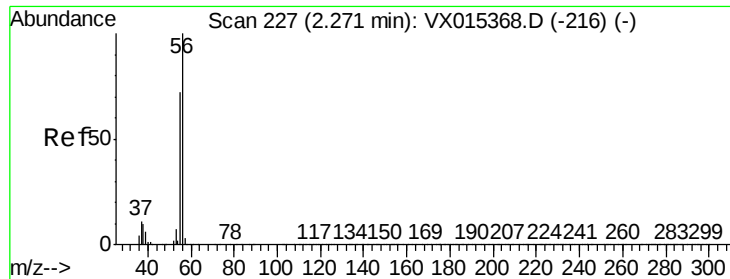


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

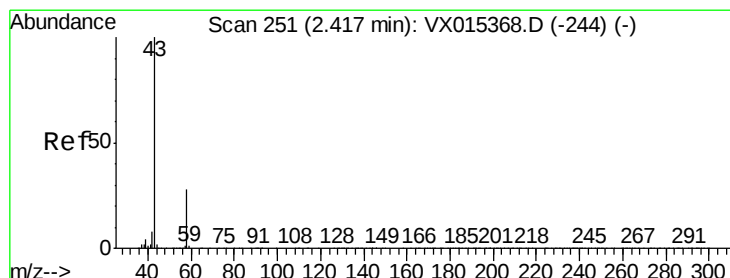
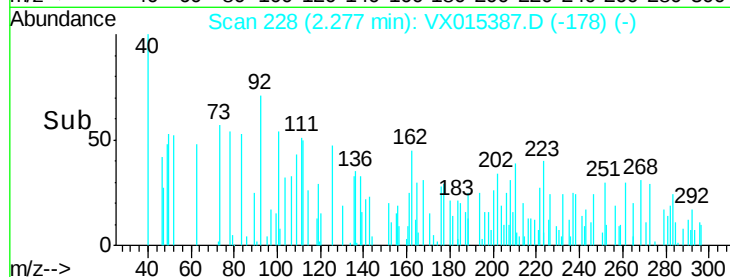
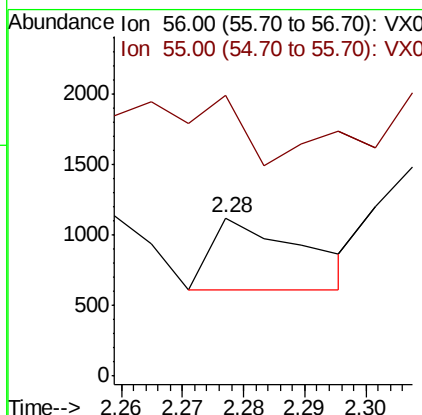
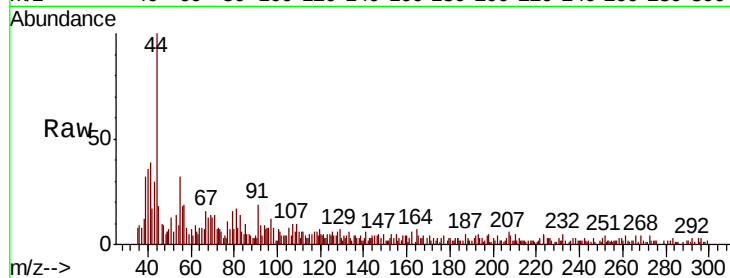




#13
Acrolein
Concen: 0.238 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015387.D
Acq: 27 Mar 2020 17:21

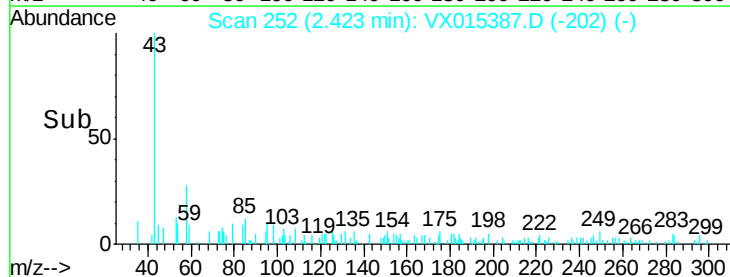
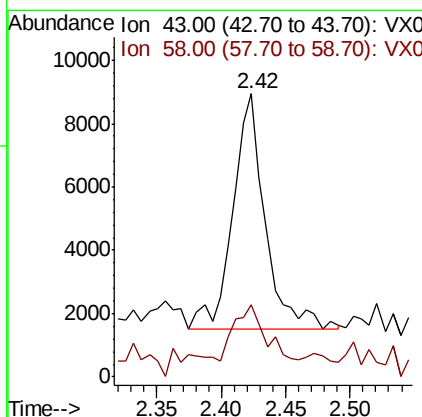
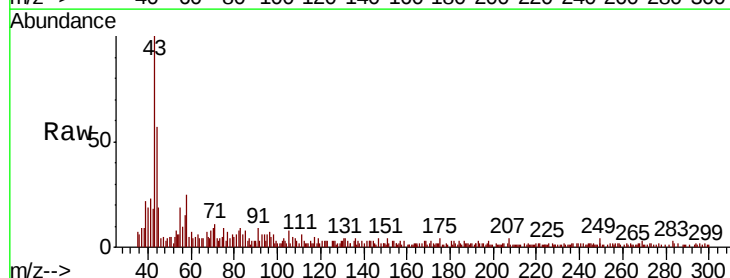
Instrument :
MSVOA_X
ClientSampleId :
RE109D3-20200316

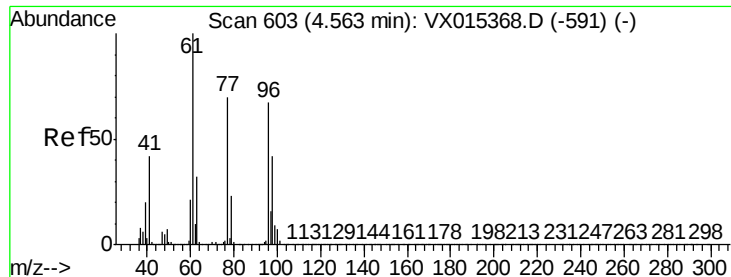
Tot Ion: 56 Resp: 533
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#16
Acetone
Concen: 1.841 ug/l
RT: 2.42 min Scan# 252
Delta R.T. 0.01 min
Lab File: VX015387.D
Acq: 27 Mar 2020 17:21

Tgt Ion: 43 Resp: 12998
Ion Ratio Lower Upper
43 100
58 24.5 22.1 33.1



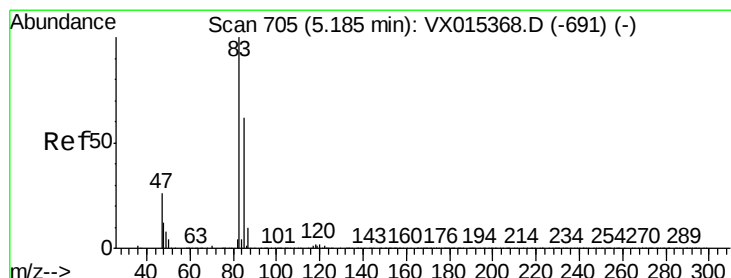
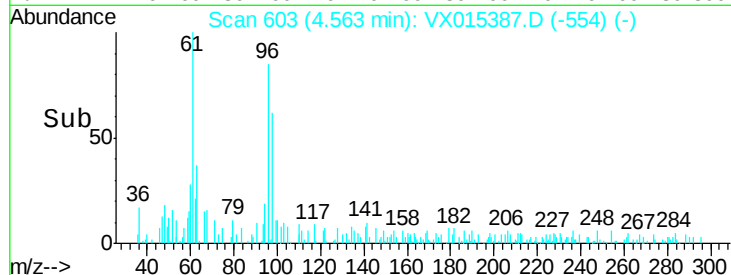
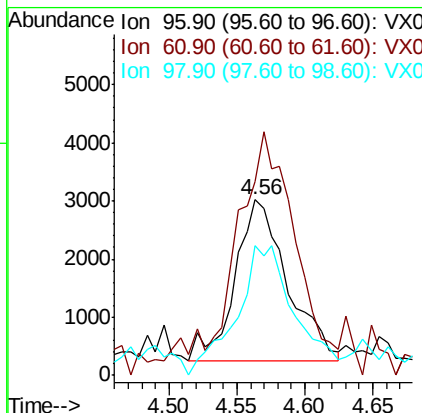
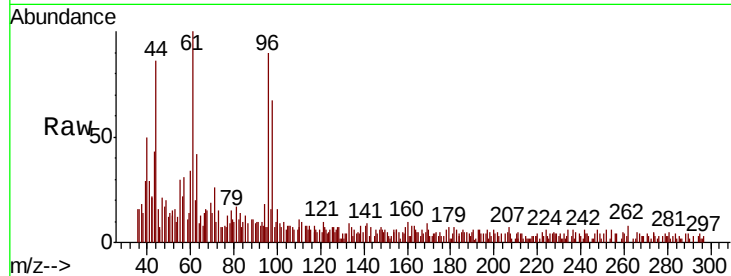


#27

cis-1,2-Dichloroethene
 Concen: 0.535 ug/l
 RT: 4.56 min Scan# 603
 Delta R.T. 0.00 min
 Lab File: VX015387.D
 Acq: 27 Mar 2020 17:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20200316

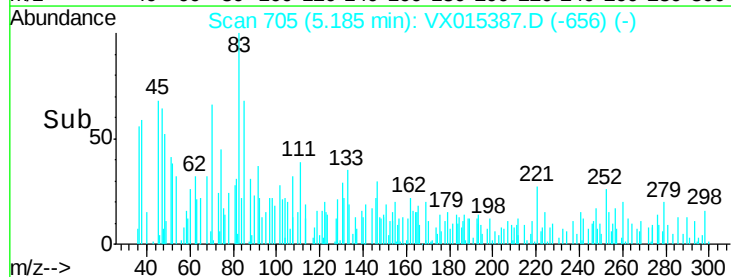
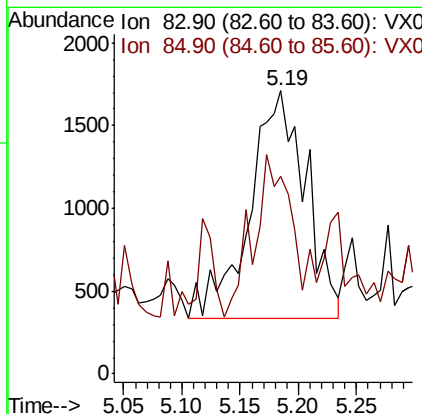
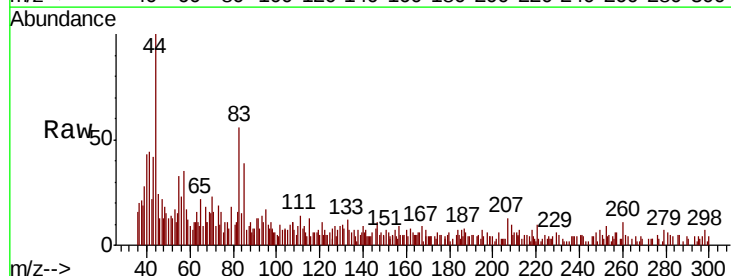
Tot Ion	Ratio	Lower	Upper
96	100		
61	147.8	0.0	308.4
98	88.8	0.0	129.2

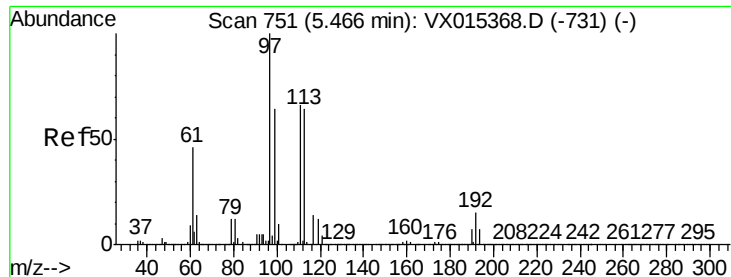


#30

Chloroform
 Concen: 0.201 ug/l
 RT: 5.19 min Scan# 705
 Delta R.T. 0.00 min
 Lab File: VX015387.D
 Acq: 27 Mar 2020 17:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.9	49.5	74.3





#32

1,1,1-Trichloroethane

Concen: 0.325 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20200316

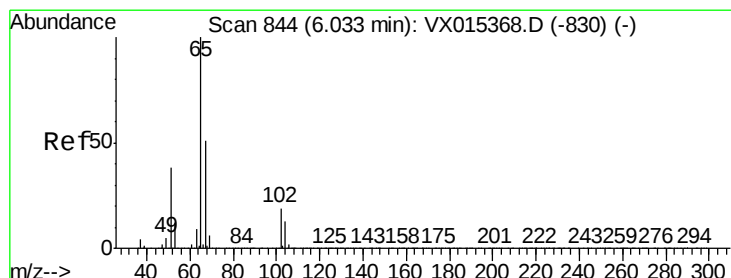
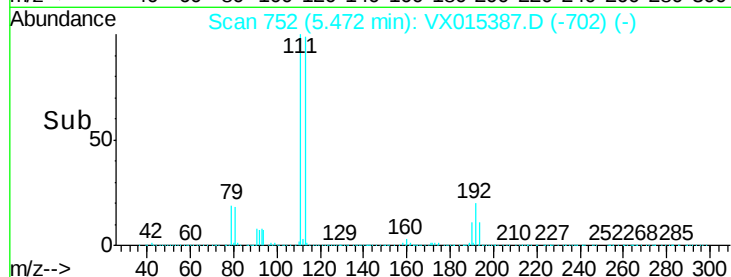
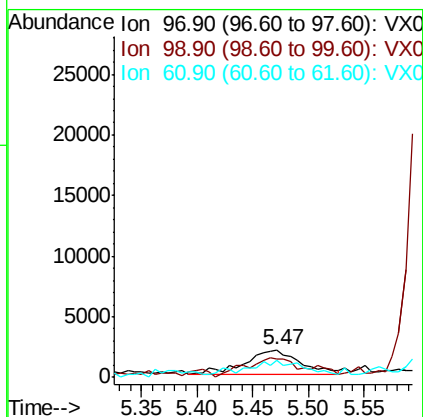
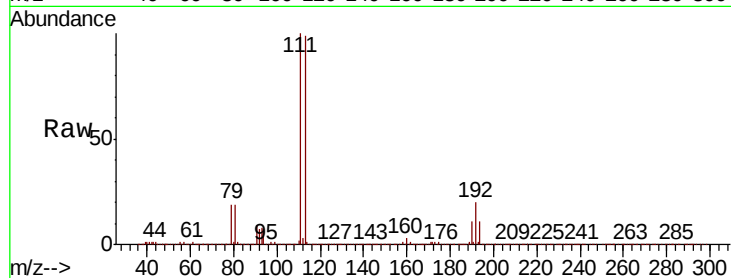
Tot Ion: 97 Resp: 6793

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

61 45.9 36.1 54.1



#33

1,2-Dichloroethane-d4

Concen: 46.364 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015387.D

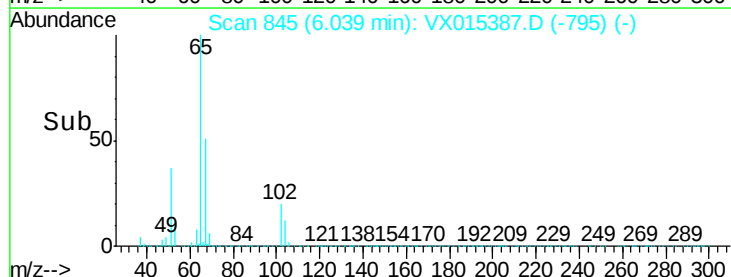
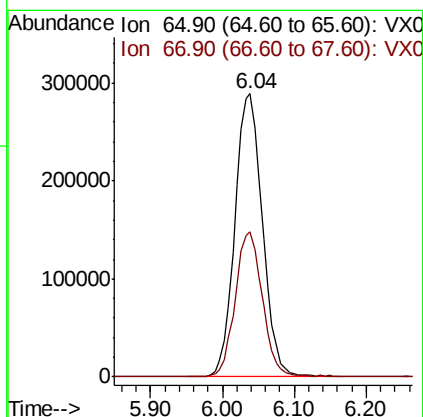
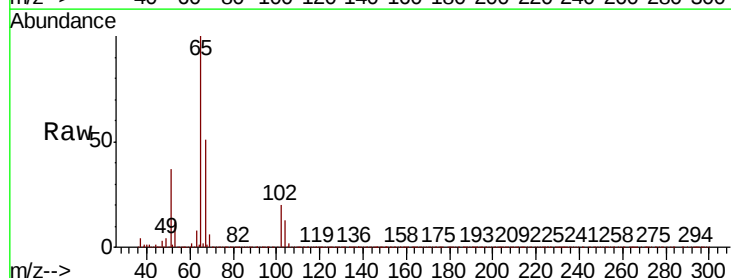
Acq: 27 Mar 2020 17:21

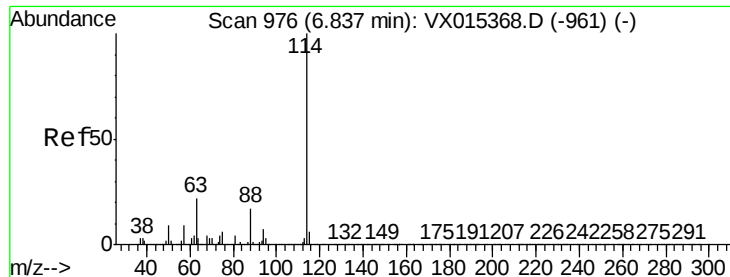
Tgt Ion: 65 Resp: 761802

Ion Ratio Lower Upper

65 100

67 50.5 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20200316

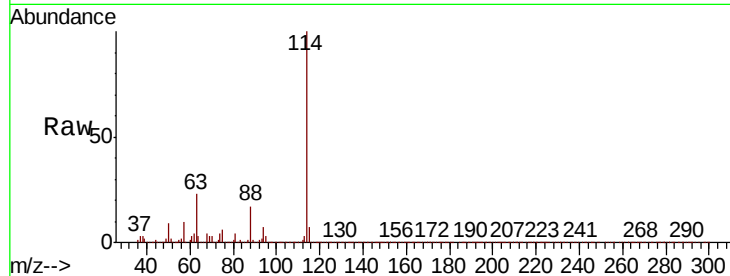
Tot Ion:114 Resp: 1873693

Ion Ratio Lower Upper

114 100

63 23.1 0.0 44.2

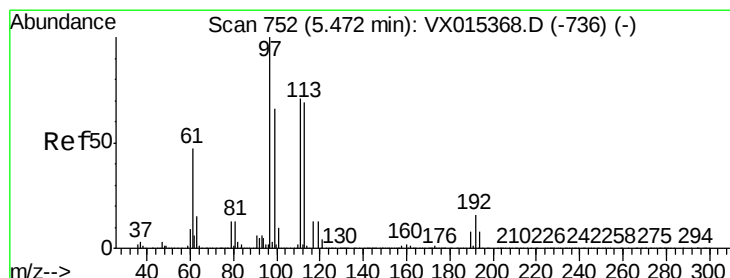
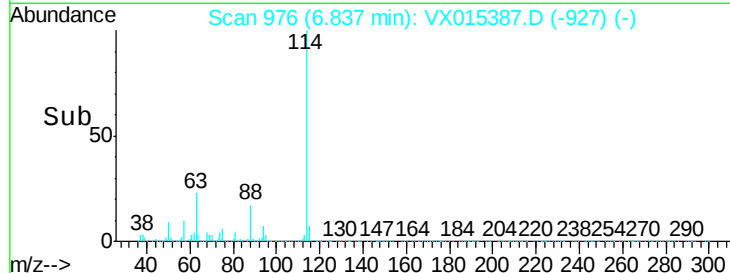
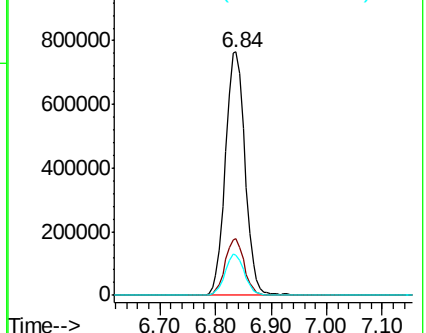
88 16.7 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.050 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

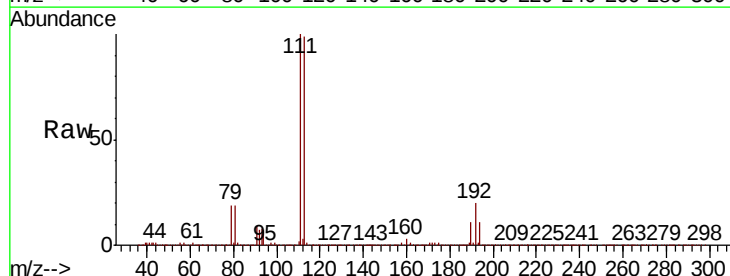
Tgt Ion:113 Resp: 587480

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

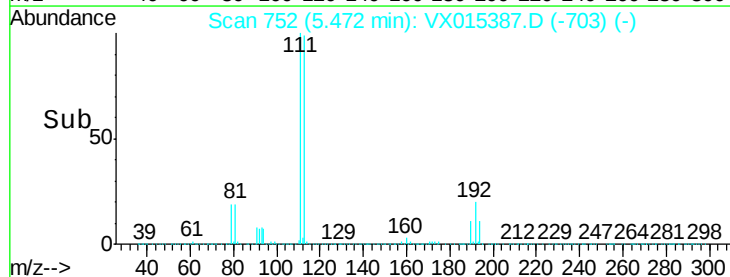
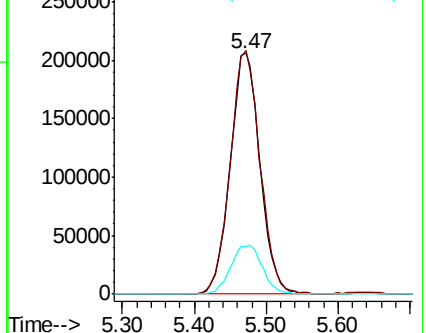
192 21.7 17.8 26.6

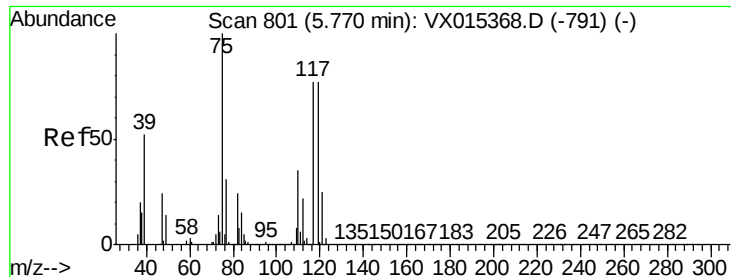


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

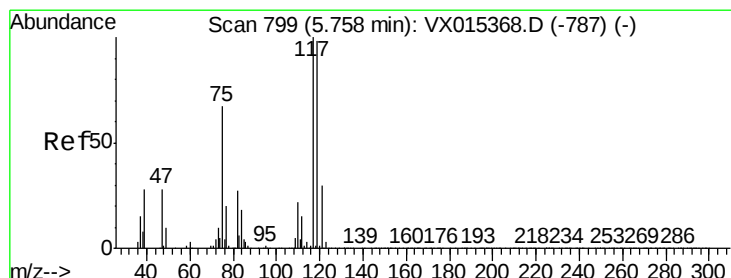
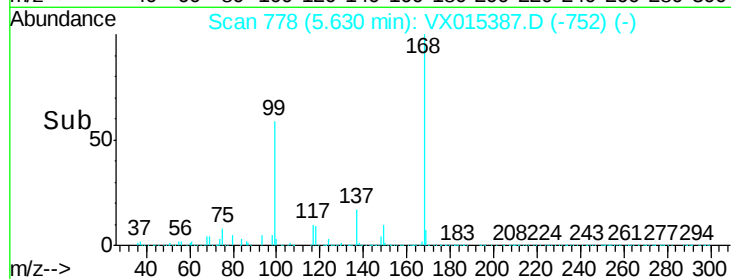
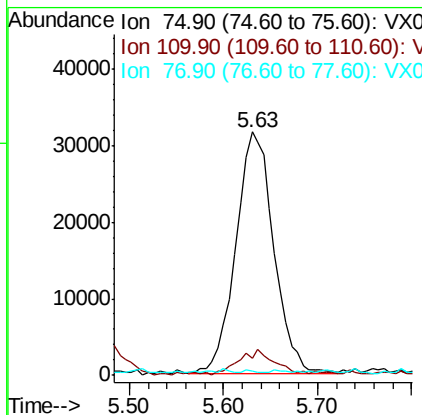
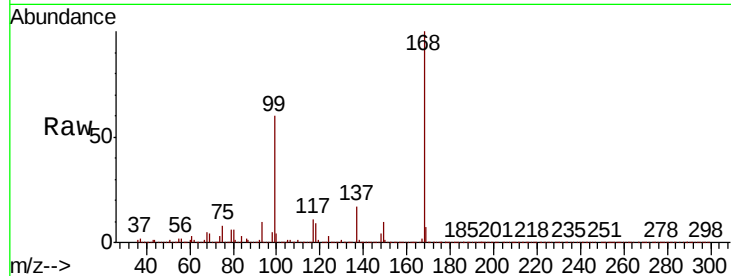




#36
 1,1-Dichloropropene
 Concen: 5.127 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015387.D
 Acq: 27 Mar 2020 17:21

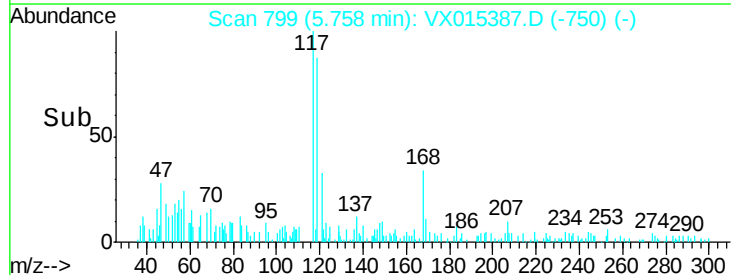
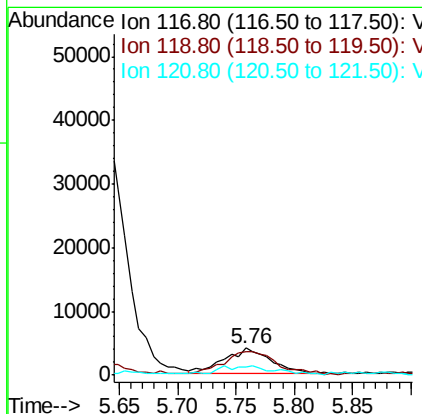
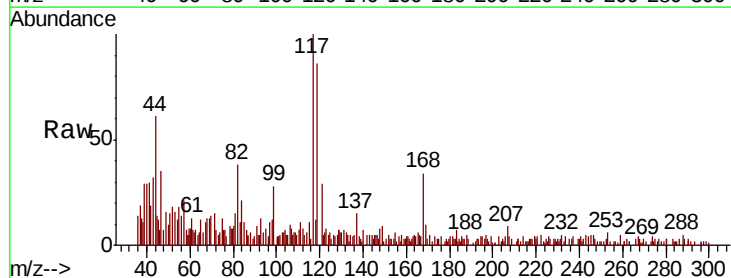
Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20200316

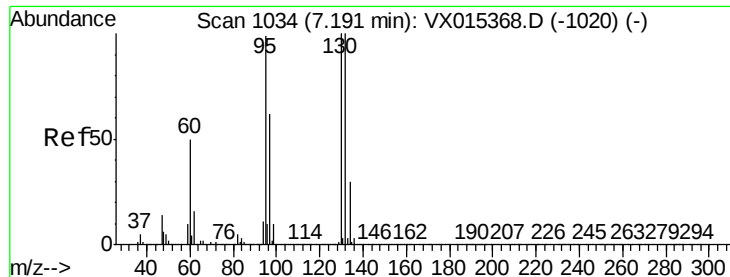
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	17.1	51.3#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 0.588 ug/l
 RT: 5.76 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VX015387.D
 Acq: 27 Mar 2020 17:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.5	78.0	117.0
121	26.1	23.8	35.8





#44

Trichloroethene

Concen: 63.408 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

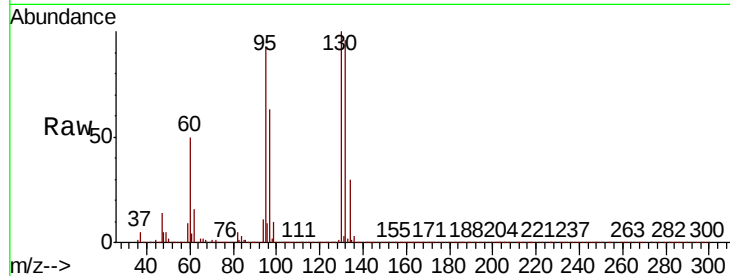
RE109D3-20200316

Tot Ion:130 Resp: 874525

Ion Ratio Lower Upper

130 100

95 92.8 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

400000

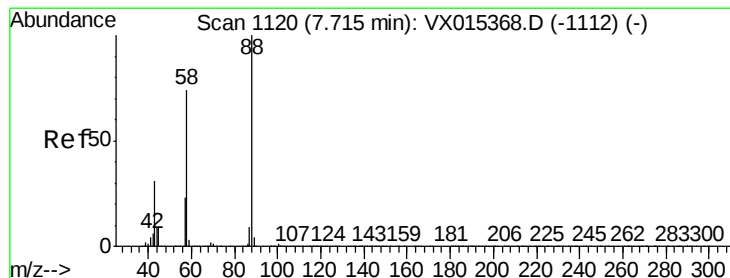
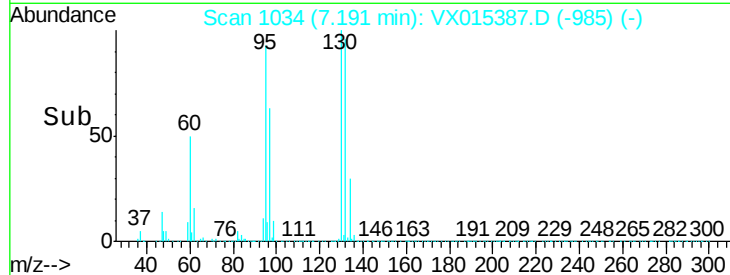
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 10.628 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

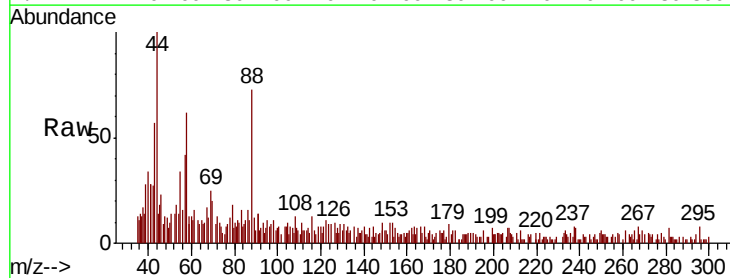
Tgt Ion: 88 Resp: 3758

Ion Ratio Lower Upper

88 100

43 59.6 30.1 45.1#

58 86.7 60.6 90.8



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

7.73

3000

2500

2000

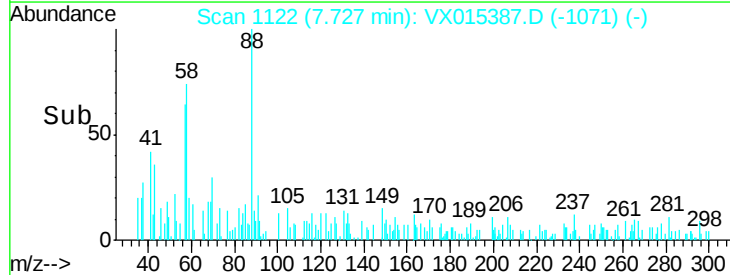
1500

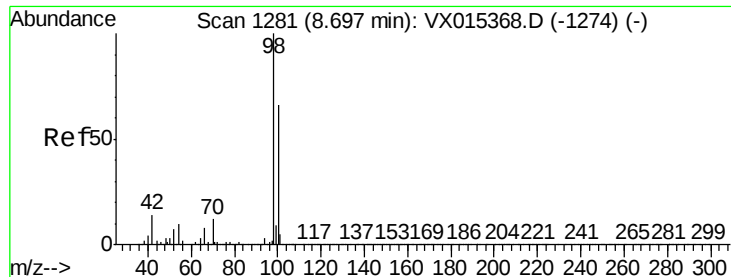
1000

500

0

Time-->





#50

Toluene-d8

Concen: 51.336 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

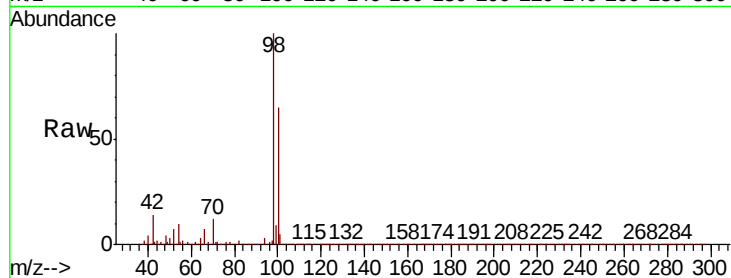
RE109D3-20200316

Tot Ion: 98 Resp: 2263768

Ion Ratio Lower Upper

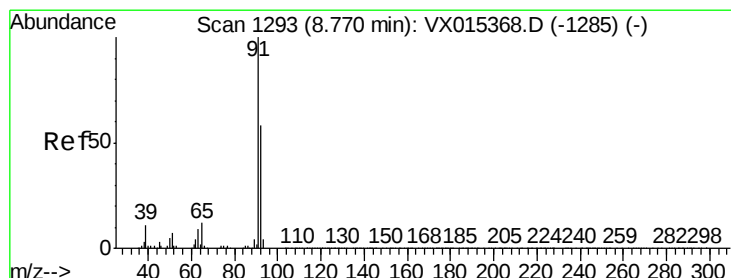
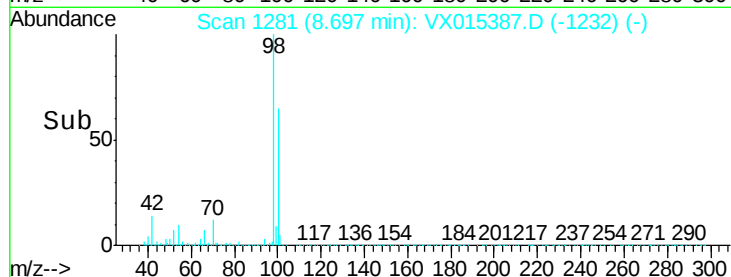
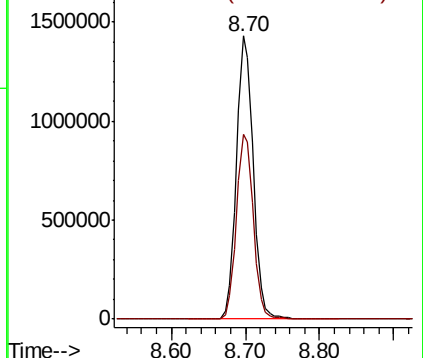
98 100

100 66.0 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.272 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. 0.01 min

Lab File: VX015387.D

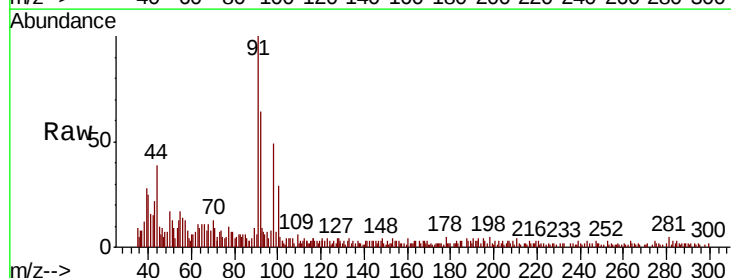
Acq: 27 Mar 2020 17:21

Tgt Ion: 92 Resp: 8465

Ion Ratio Lower Upper

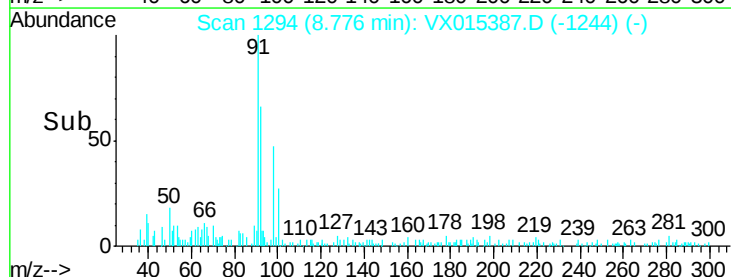
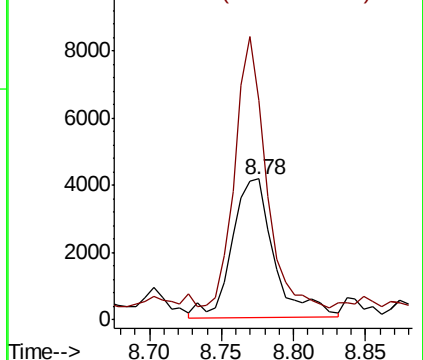
92 100

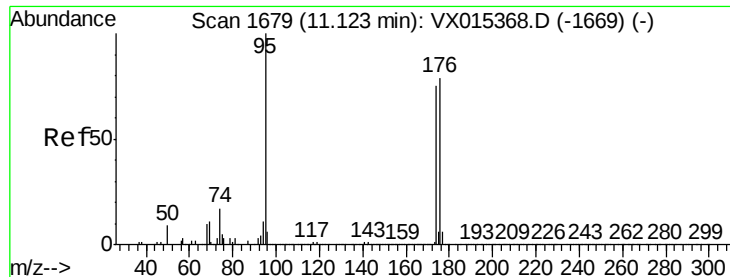
91 142.0 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#62

4-Bromofluorobenzene

Concen: 54.713 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

RE109D3-20200316

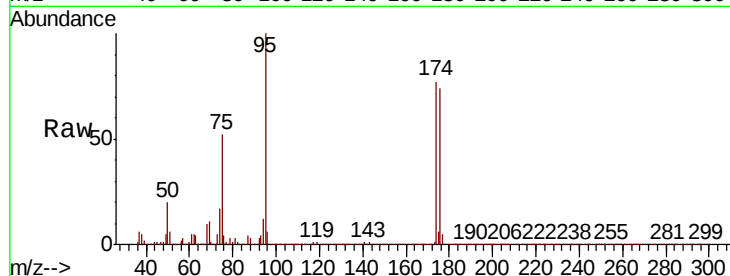
Tot Ion: 95 Resp: 980509

Ion Ratio Lower Upper

95 100

174 78.5 0.0 158.6

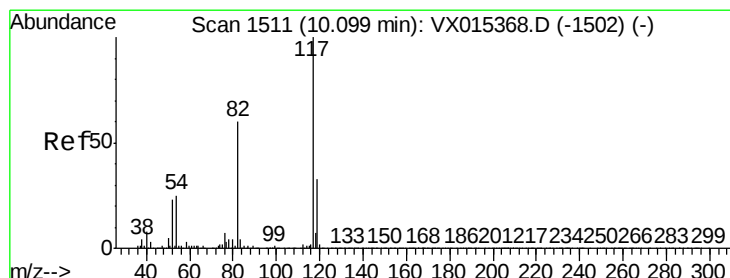
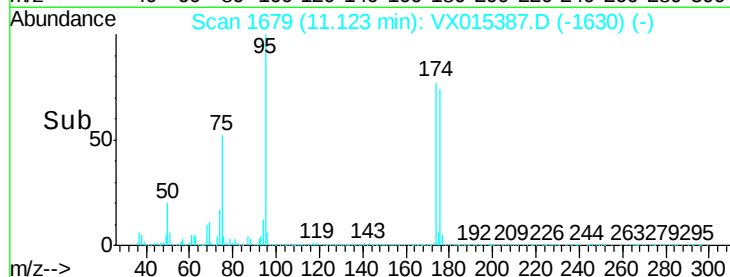
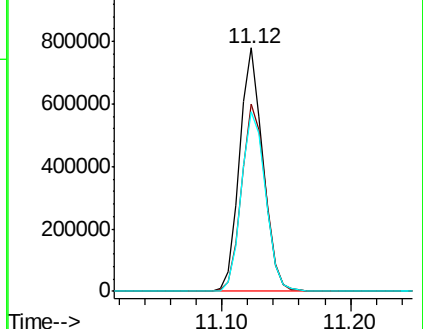
176 76.1 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX015387.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX015387.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015387.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

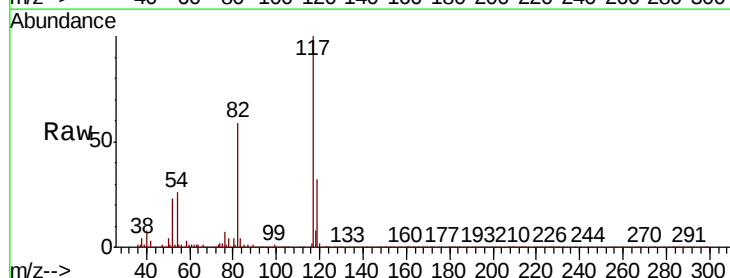
Tgt Ion: 117 Resp: 1795934

Ion Ratio Lower Upper

117 100

82 59.4 47.8 71.8

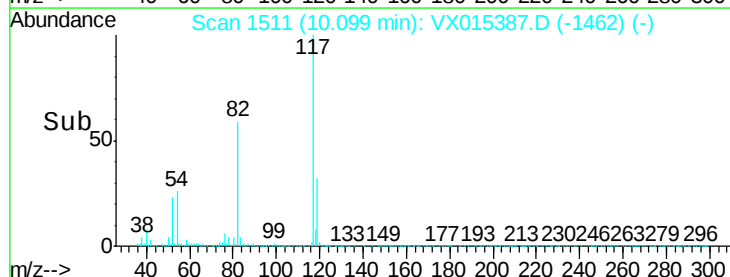
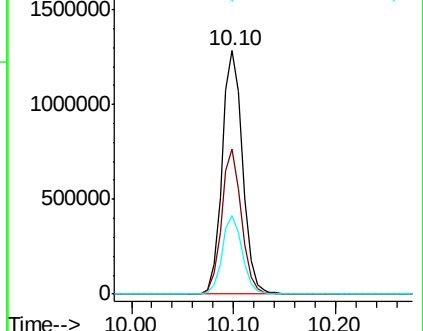
119 32.4 26.8 40.2

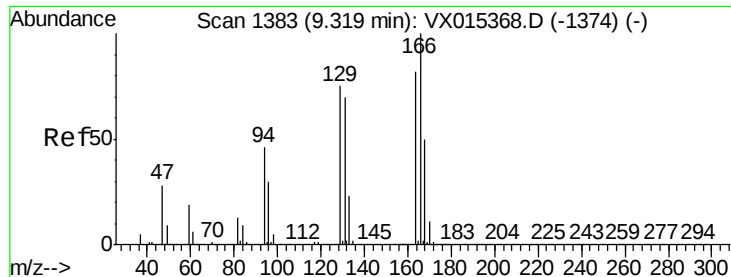


Abundance Ion 116.90 (116.60 to 117.60): VX015387.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015387.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015387.D (-1462) (-)

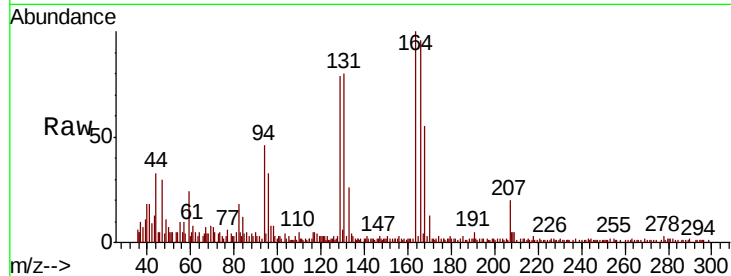




#64
Tetrachloroethene
Concen: 0.947 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VX015387.D
Acq: 27 Mar 2020 17:21

Instrument :
MSVOA_X
ClientSampleId :
RE109D3-20200316

Tot Ion	Ratio	Lower	Upper
164	100		
166	94.8	97.8	146.6#
129	76.5	73.0	109.4
131	79.2	68.6	103.0

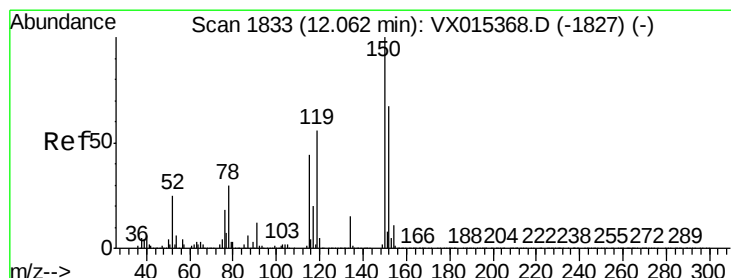
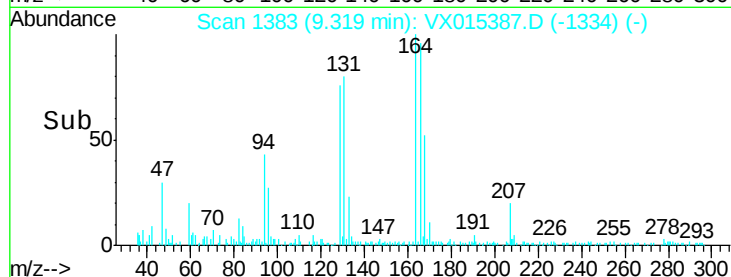
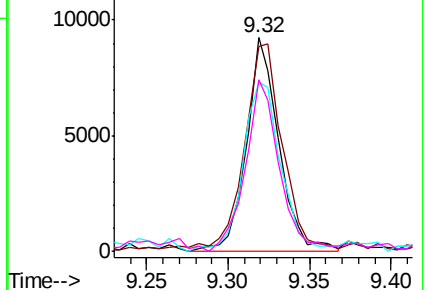


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

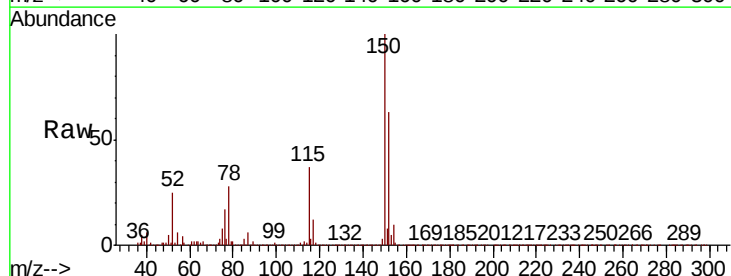
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VX015387.D
Acq: 27 Mar 2020 17:21

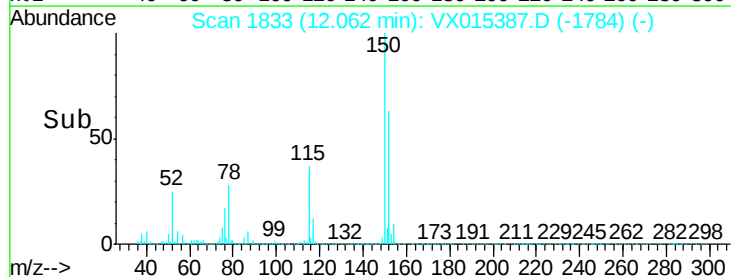
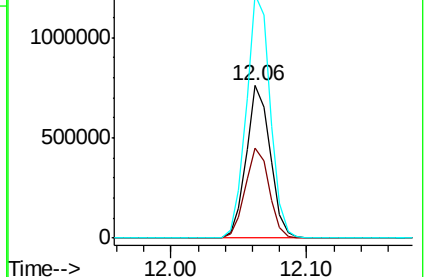
Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.9	39.0	116.9
150	159.4	0.0	340.8

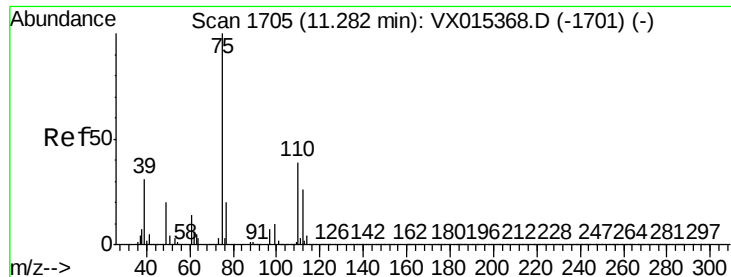


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.270 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

Instrument :

MSVOA_X

ClientSampleId :

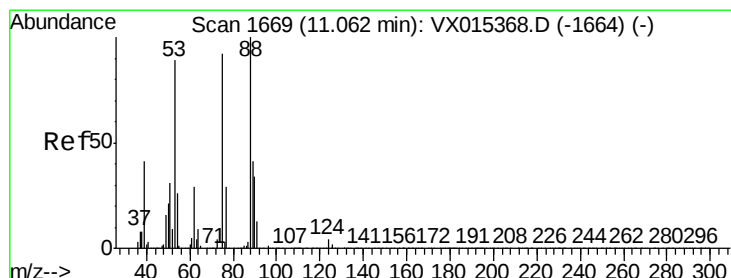
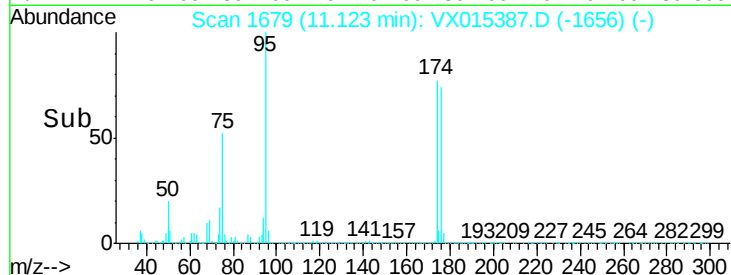
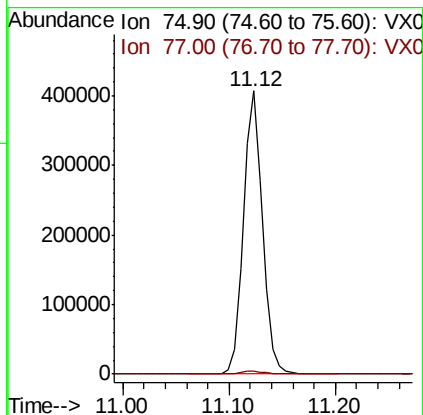
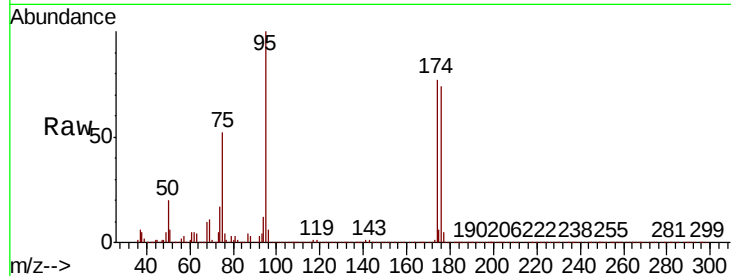
RE109D3-20200316

Tot Ion: 75 Resp: 507809

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.033 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015387.D

Acq: 27 Mar 2020 17:21

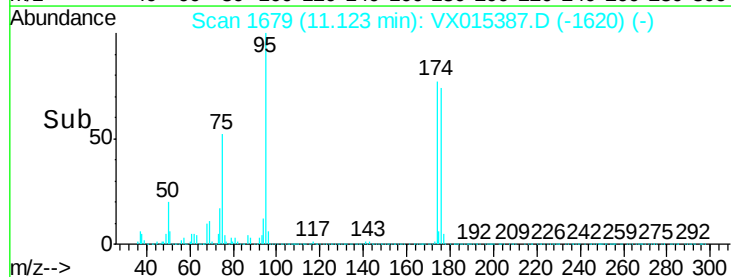
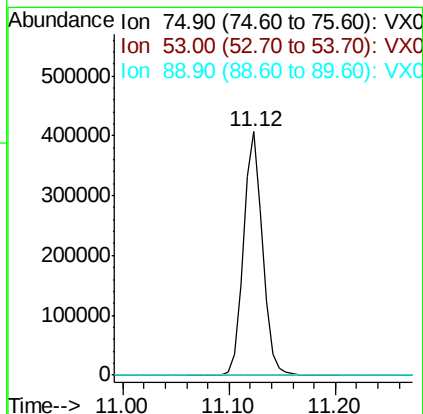
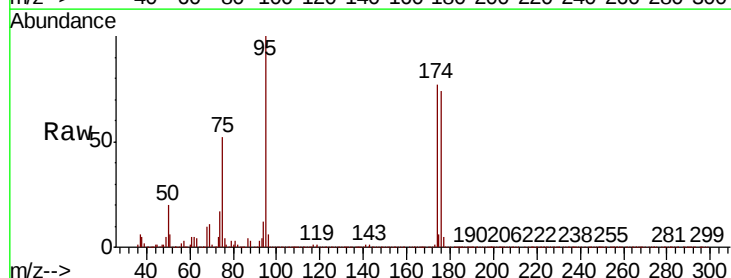
Tgt Ion: 75 Resp: 507809

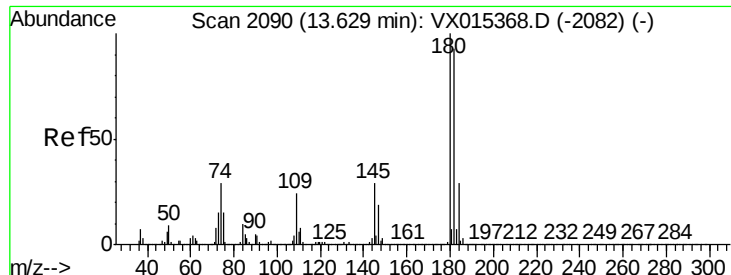
Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#





#93
 1,2,4-Trichlorobenzene
 Concen: 0.210 ug/l
 RT: 13.63 min Scan# 2091
 Delta R.T. 0.01 min
 Lab File: VX015387.D
 Acq: 27 Mar 2020 17:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D3-20200316

Tot Ion	Ratio	Lower	Upper
180	100		
182	74.7	46.9	140.7
145	37.8	14.9	44.5

