

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX030920\
 Data File : VX015149.D
 Acq On : 09 Mar 2020 17:37
 Operator : JC/SP
 Sample : L1842-25
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20200305

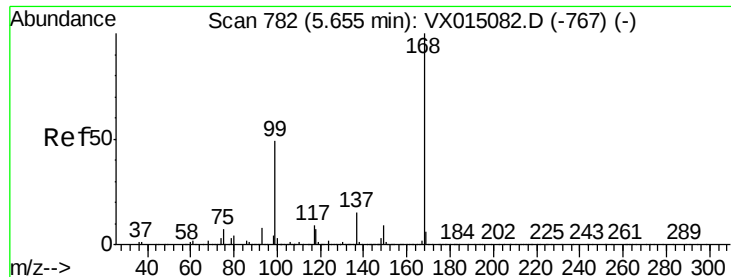
Quant Time: Mar 10 11:22:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	336787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	548185	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	533484	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	272290	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	206519	51.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.38%	
35) Dibromofluoromethane	5.49	113	173889	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
50) Toluene-d8	8.71	98	667579	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.13	95	241914	51.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1446	0.49	ug/l	81
3) Chloromethane	1.32	50	1707	0.41	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	75202	23.71	ug/l	99
11) Tert butyl alcohol	3.03	59	287	0.41	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	19634	6.00	ug/l	93
15) Acrylonitrile	3.14	53	455	0.26	ug/l #	67
16) Acetone	2.44	43	3265	2.02	ug/l	97
20) Methylene Chloride	2.85	84	958	0.25	ug/l #	88
24) 1,1-Dichloroethane	3.69	63	9601	1.52	ug/l #	93
25) 2-Butanone	4.69	43	1129	0.48	ug/l #	66
27) cis-1,2-Dichloroethene	4.58	96	14069	3.59	ug/l	92
29) Tetrahydrofuran	5.12	42	1107	0.72	ug/l #	61
30) Chloroform	5.20	83	11201	1.82	ug/l	96
32) 1,1,1-Trichloroethane	5.48	97	2186	0.43	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	23431	4.62	ug/l #	52
38) Carbon Tetrachloride	5.78	117	15676	3.28	ug/l	88
39) Methylcyclohexane	7.22	83	101470	17.15	ug/l #	1
42) 1,2-Dichloroethane	6.18	62	1964	0.38	ug/l	75
44) Trichloroethene	7.22	130	8754391	2090.73	ug/l	97
49) 1,4-Dioxane	7.76	88	1120	12.31	ug/l #	43
55) 1,1,2-Trichloroethane	9.21	97	4521	1.19	ug/l	88
64) Tetrachloroethene	9.33	164	13033	2.95	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	124838	22.98	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	124838	65.23	ug/l #	11
95) Naphthalene	13.84	128	638	1.45	ug/l #	73

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX015149.D

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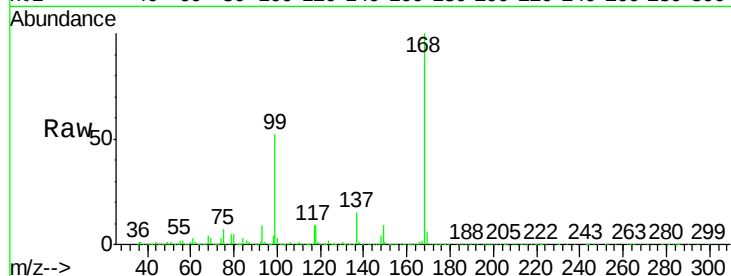
RE105D2-20200305

Tgt Ion:168 Resp: 336787

Ion Ratio Lower Upper

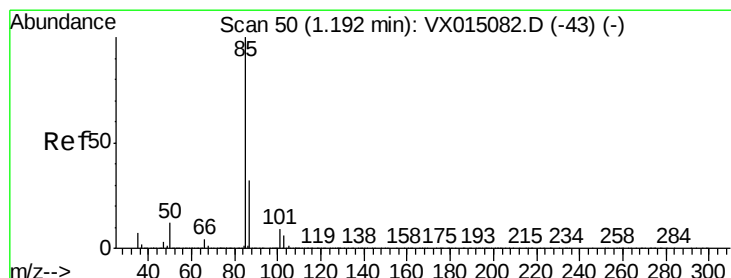
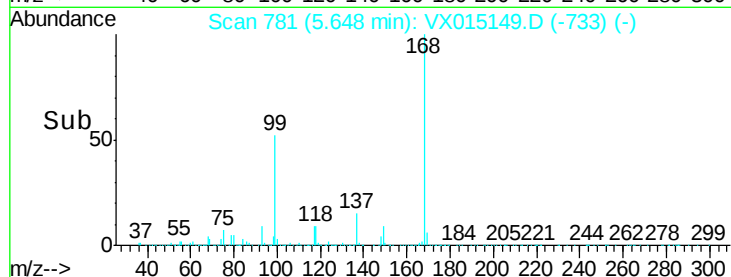
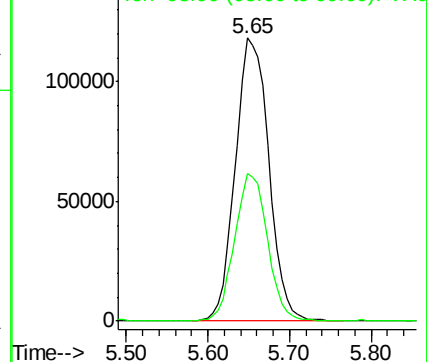
168 100

99 51.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.49 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015149.D

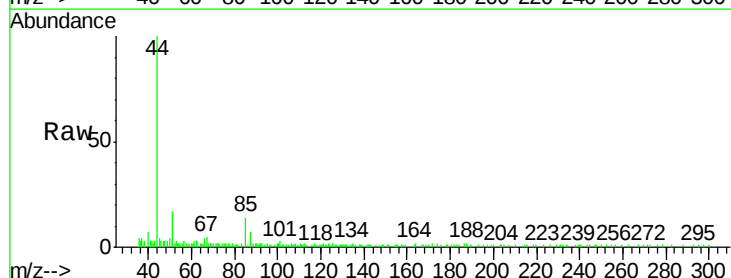
Acq: 09 Mar 2020 17:37

Tgt Ion: 85 Resp: 1446

Ion Ratio Lower Upper

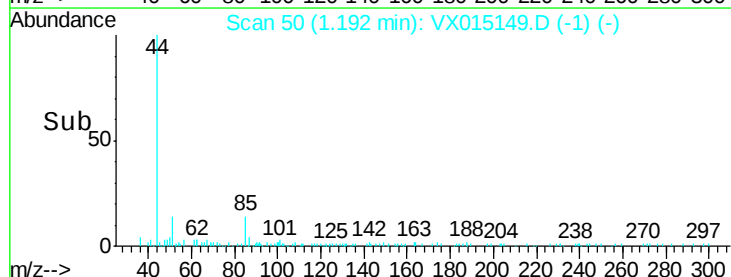
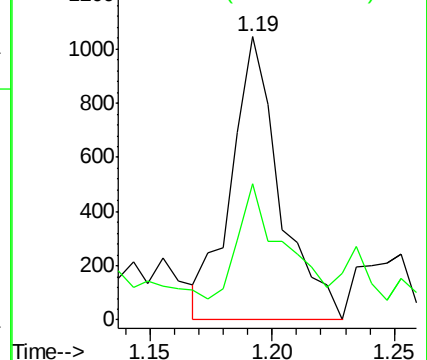
85 100

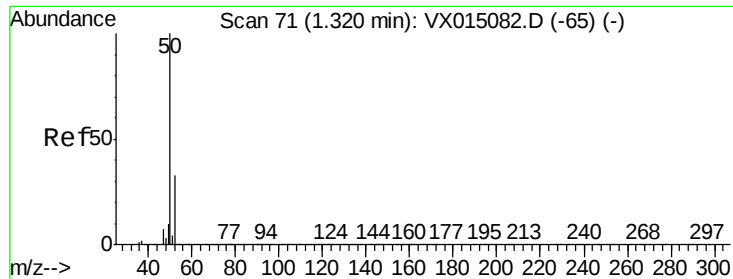
87 43.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

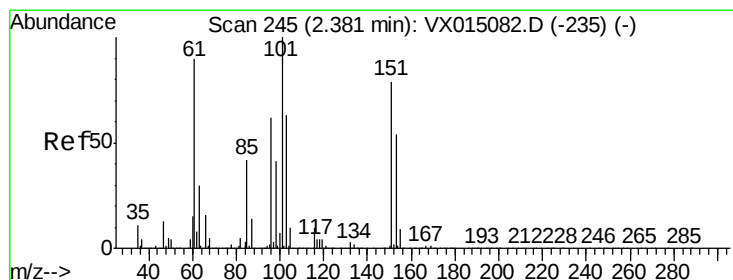
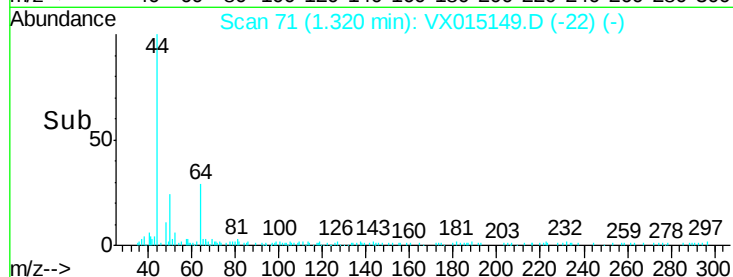
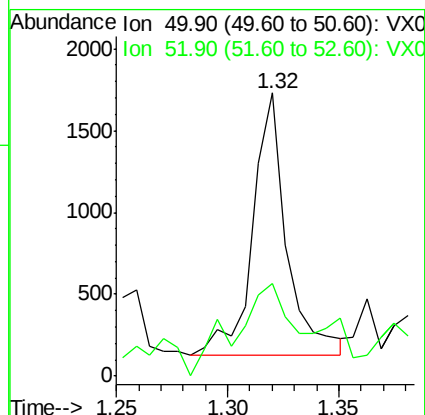
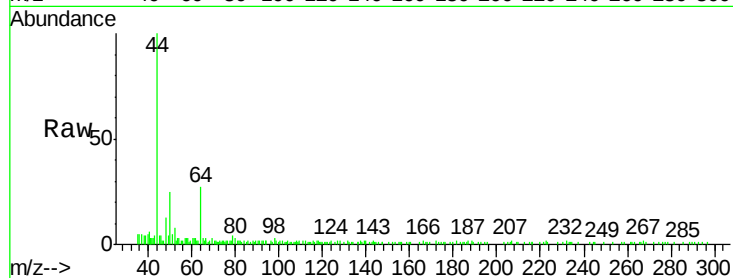




#3
Chloromethane
Concen: 0.41 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX015149.D
Acq: 09 Mar 2020 17:37

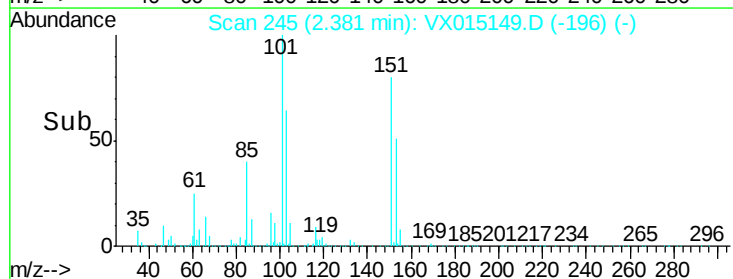
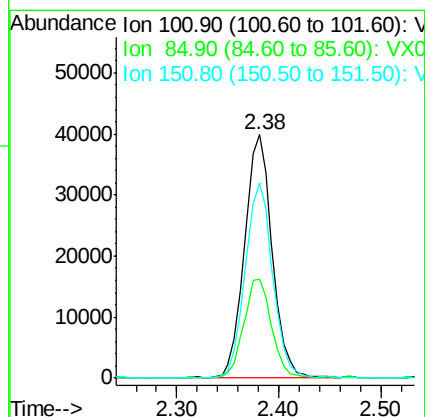
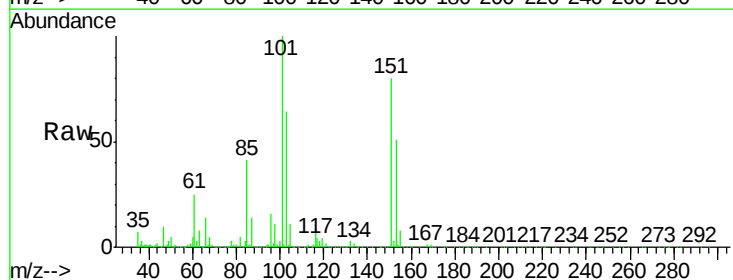
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20200305

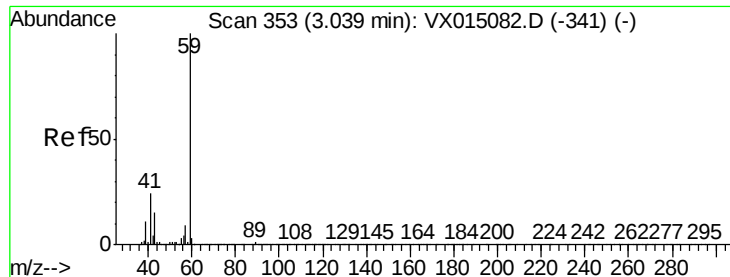
Tgt Ion: 50 Resp: 1707
Ion Ratio Lower Upper
50 100
52 35.4 26.2 39.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 23.71 ug/l
RT: 2.38 min Scan# 245
Delta R.T. 0.00 min
Lab File: VX015149.D
Acq: 09 Mar 2020 17:37

Tgt Ion: 101 Resp: 75202
Ion Ratio Lower Upper
101 100
85 40.6 33.7 50.5
151 80.1 64.0 96.0

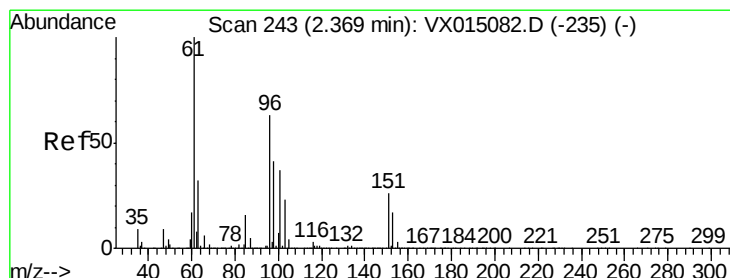
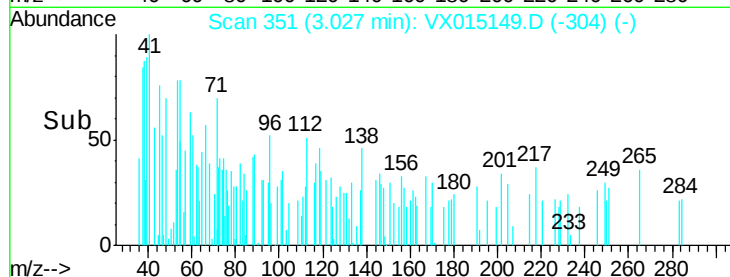
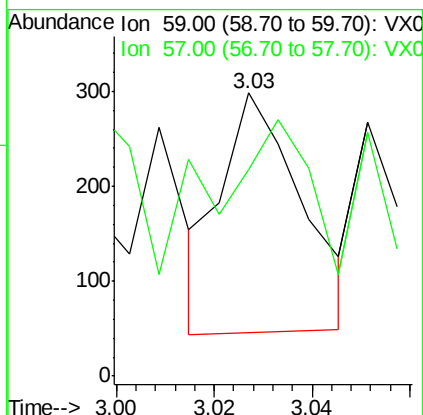
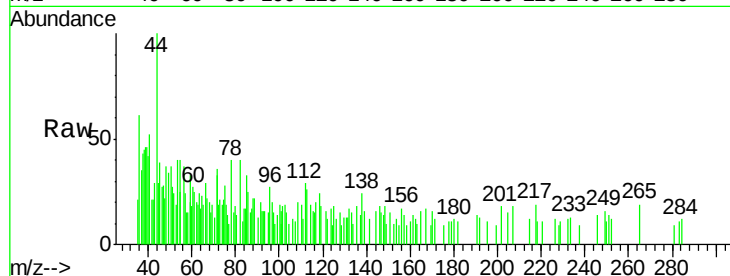




#11
Tert butyl alcohol
Concen: 0.41 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX015149.D
Acq: 09 Mar 2020 17:37

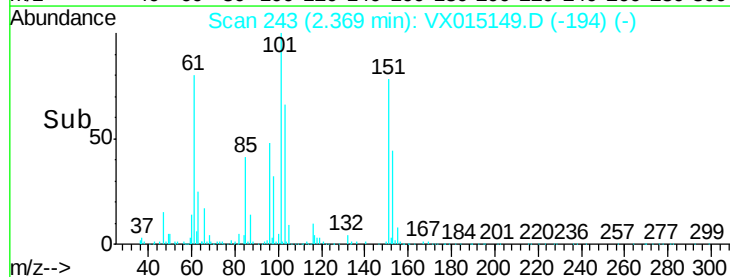
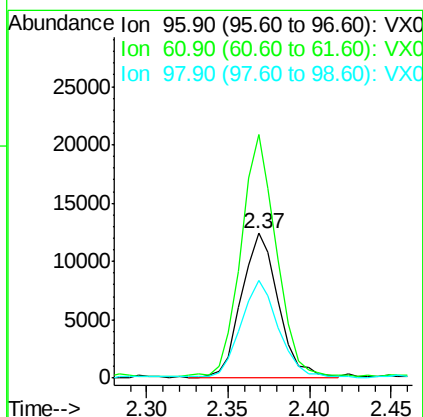
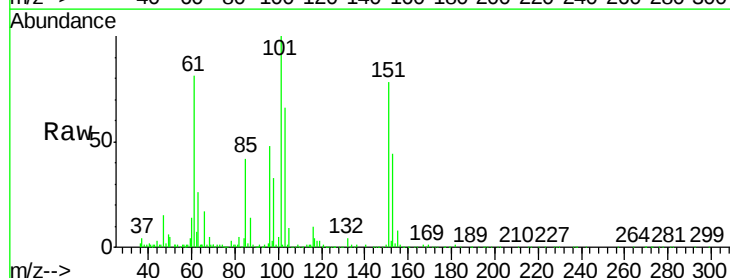
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20200305

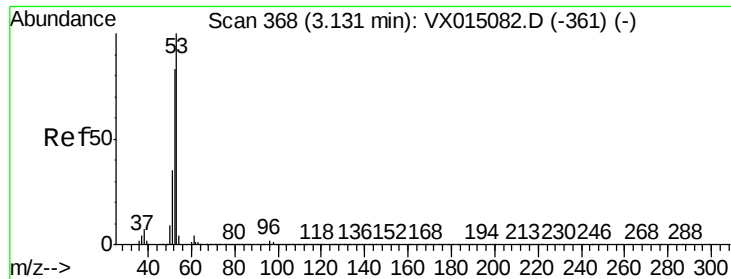
Tgt Ion: 59 Resp: 287
Ion Ratio Lower Upper
59 100
57 73.2 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 6.00 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.00 min
Lab File: VX015149.D
Acq: 09 Mar 2020 17:37

Tgt Ion: 96 Resp: 19634
Ion Ratio Lower Upper
96 100
61 168.2 126.2 189.4
98 67.4 51.4 77.0





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

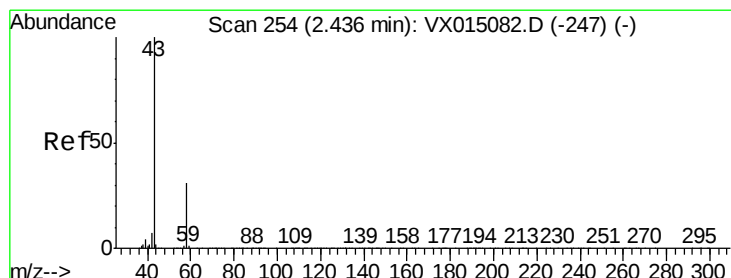
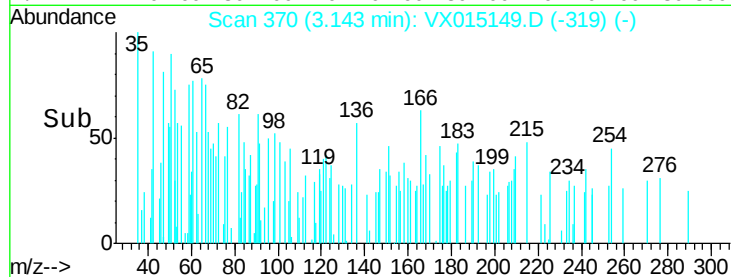
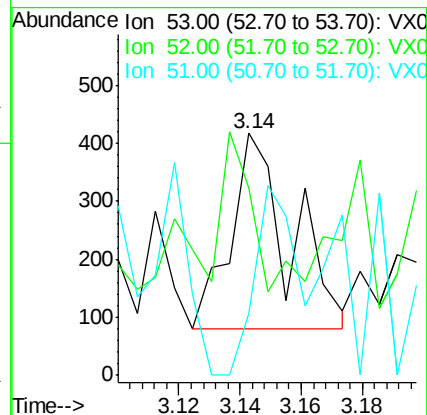
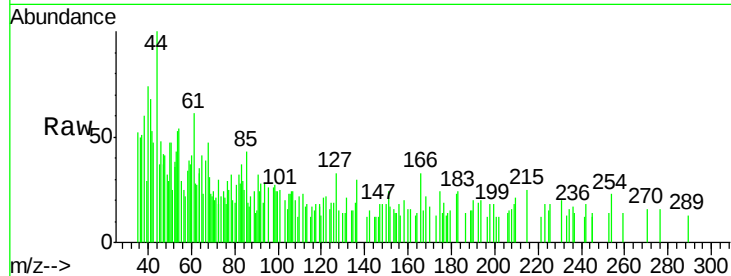
Tgt Ion: 53 Resp: 455

Ion Ratio Lower Upper

53 100

52 70.8 66.6 100.0

51 81.1 29.0 43.6#



#16

Acetone

Concen: 2.02 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015149.D

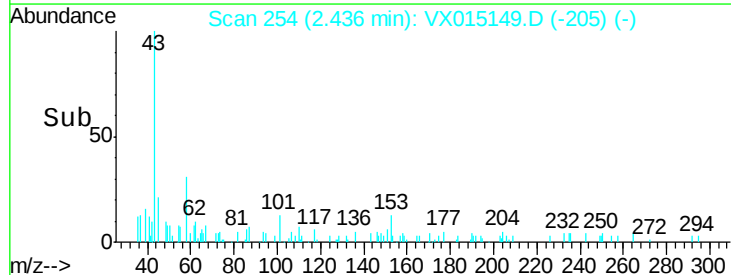
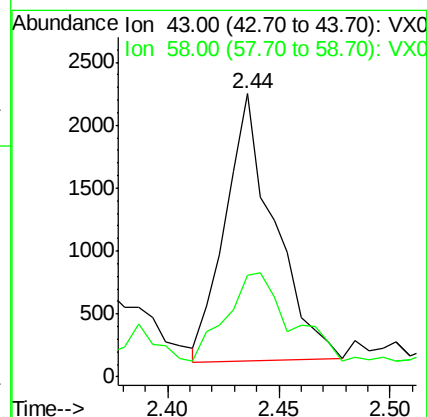
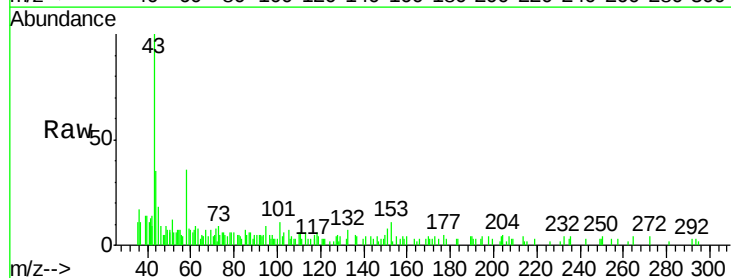
Acq: 09 Mar 2020 17:37

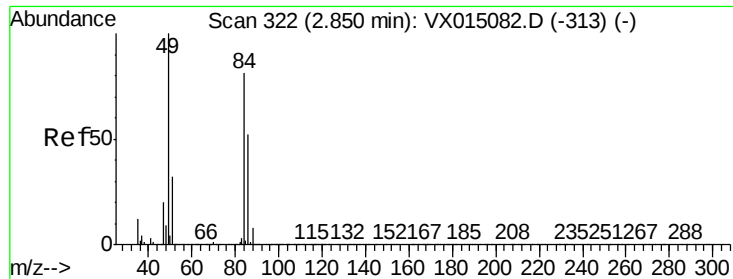
Tgt Ion: 43 Resp: 3265

Ion Ratio Lower Upper

43 100

58 32.4 24.8 37.2





#20

Methylene Chloride

Concen: 0.25 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

Tgt Ion: 84 Resp: 958

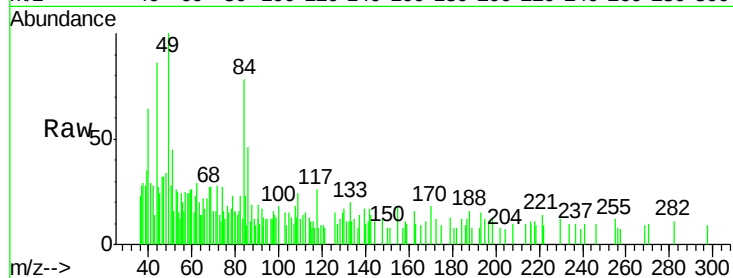
Ion Ratio Lower Upper

84 100

49 133.6 99.4 149.2

51 38.7 31.5 47.3

86 43.8 51.6 77.4#

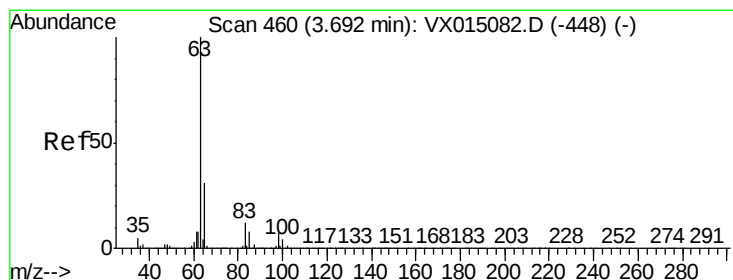
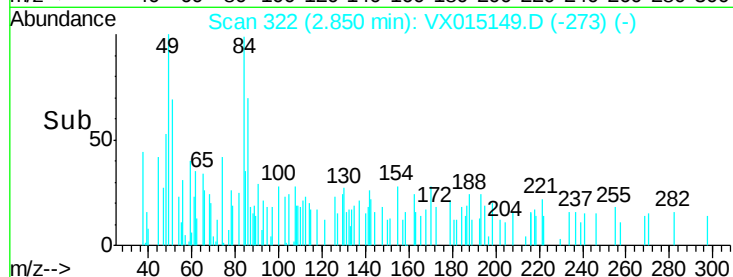
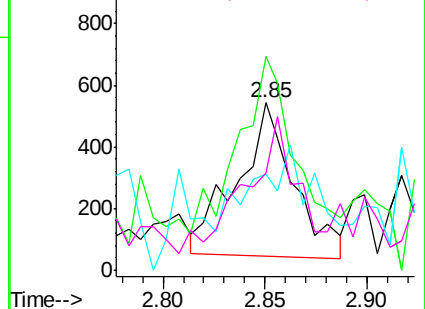


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#24

1,1-Dichloroethane

Concen: 1.52 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

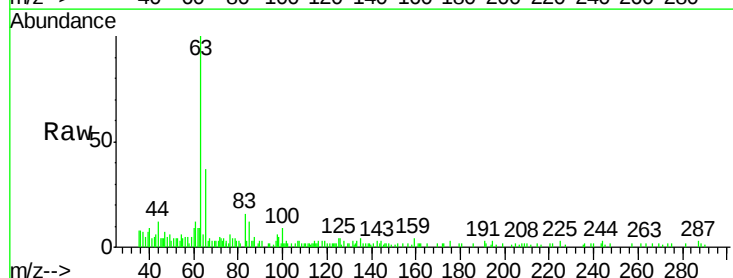
Tgt Ion: 63 Resp: 9601

Ion Ratio Lower Upper

63 100

98 9.4 3.7 11.1

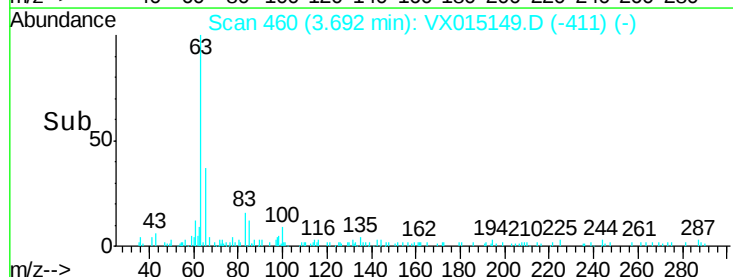
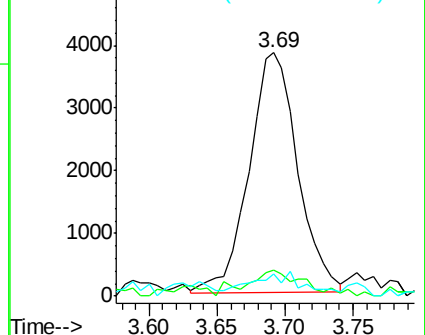
100 7.3 2.1 6.5#

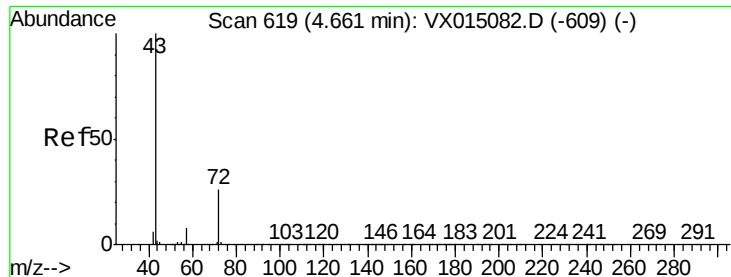


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 0.48 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

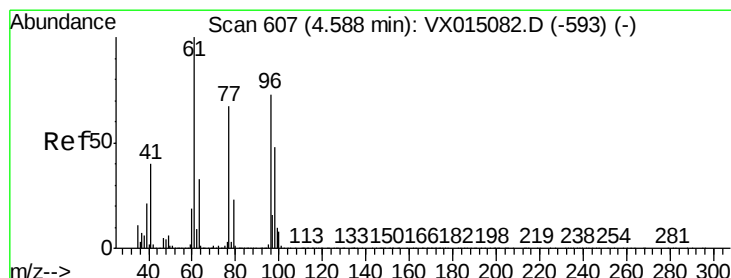
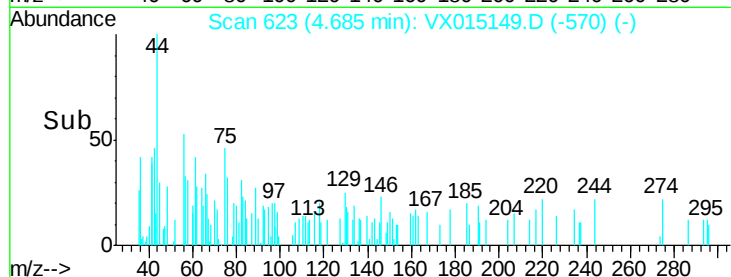
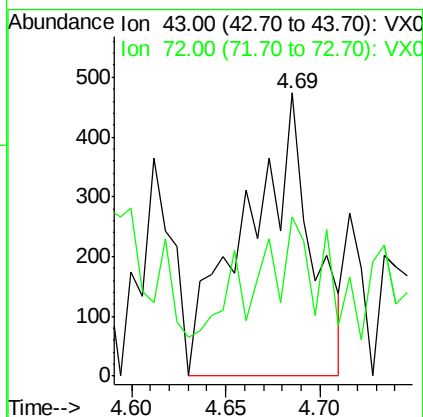
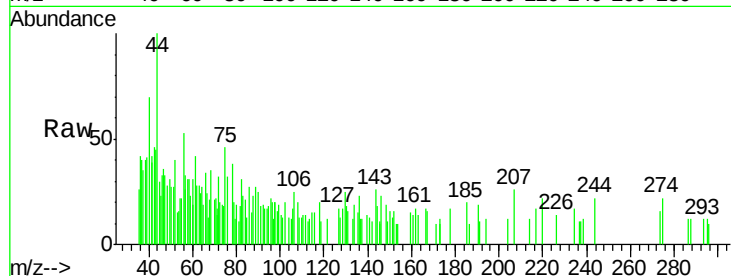
RE105D2-20200305

Tgt Ion: 43 Resp: 1129

Ion Ratio Lower Upper

43 100

72 42.7 20.6 30.8#



#27

cis-1,2-Dichloroethene

Concen: 3.59 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

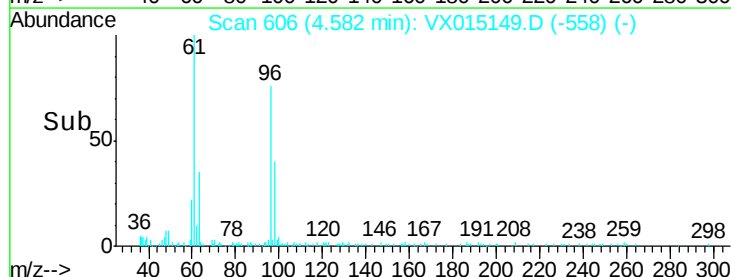
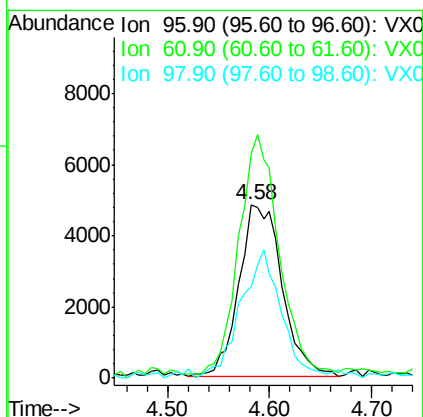
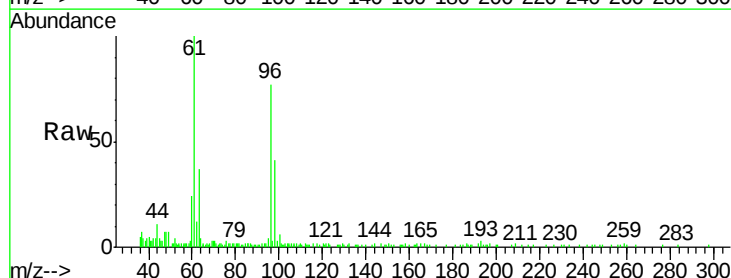
Tgt Ion: 96 Resp: 14069

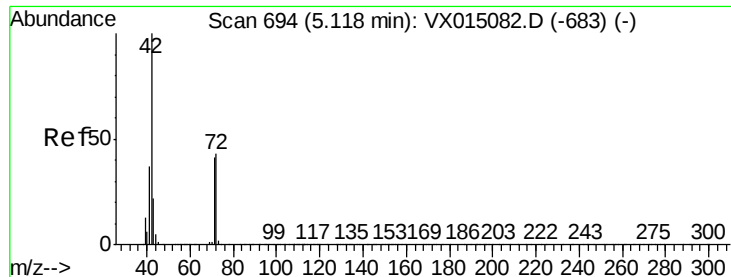
Ion Ratio Lower Upper

96 100

61 133.1 0.0 286.8

98 70.7 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.72 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

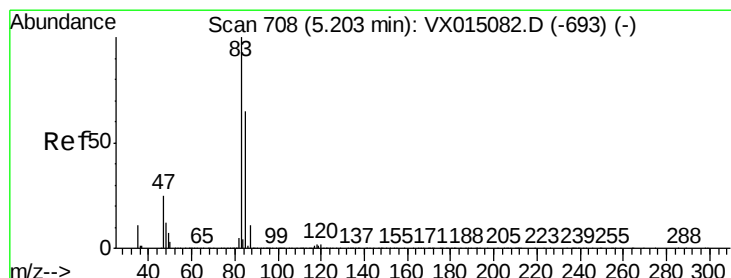
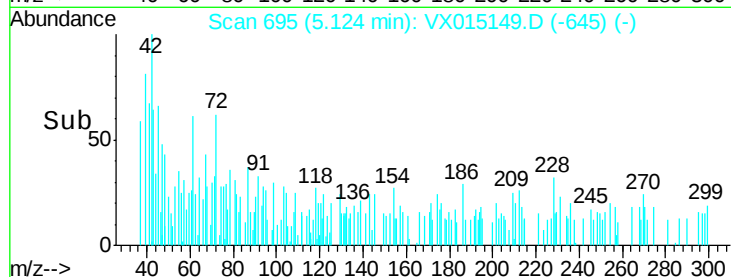
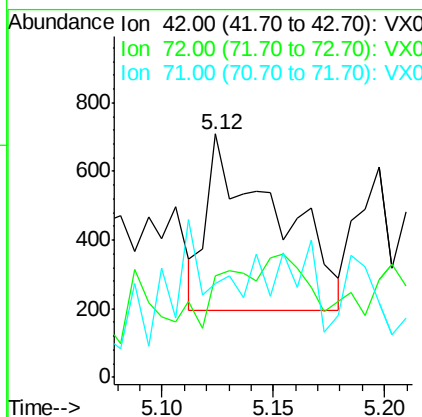
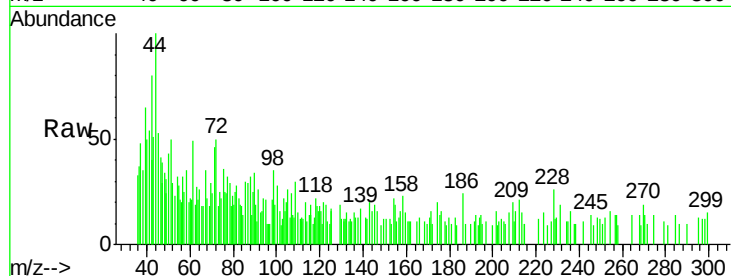
Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

Tgt Ion:	42	Resp:	1107
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.4	54.6#
71	37.8	33.3	49.9



#30

Chloroform

Concen: 1.82 ug/l

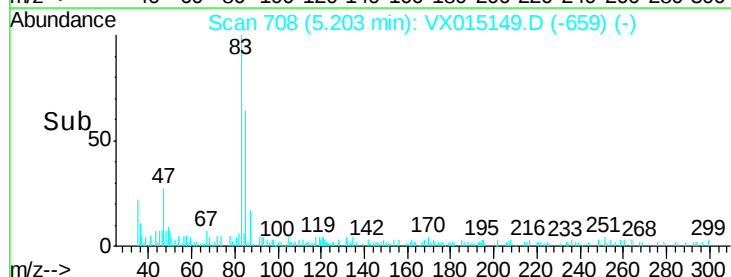
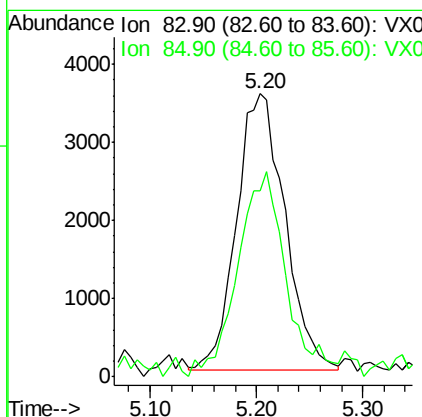
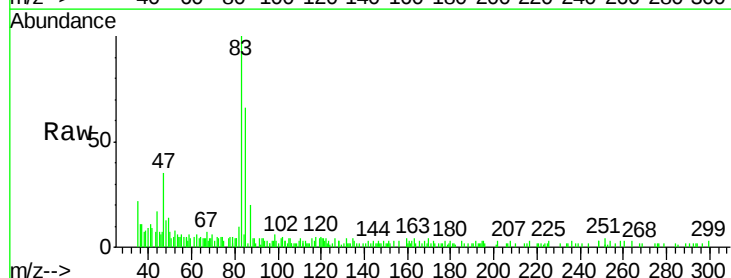
RT: 5.20 min Scan# 708

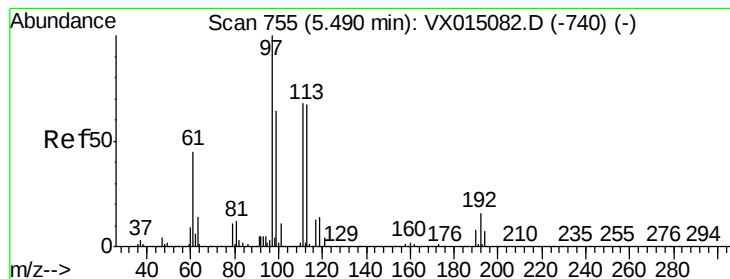
Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Tgt Ion:	83	Resp:	11201
Ion	Ratio	Lower	Upper
83	100		
85	68.5	52.0	78.0





#32

1,1,1-Trichloroethane

Concen: 0.43 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

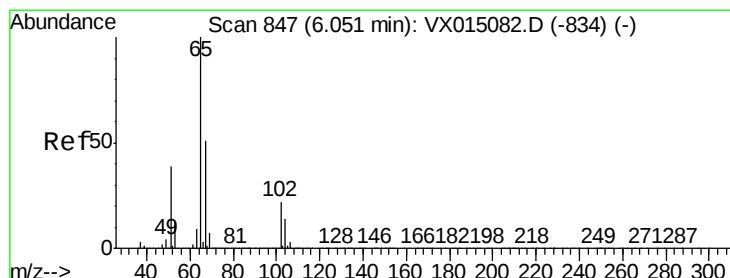
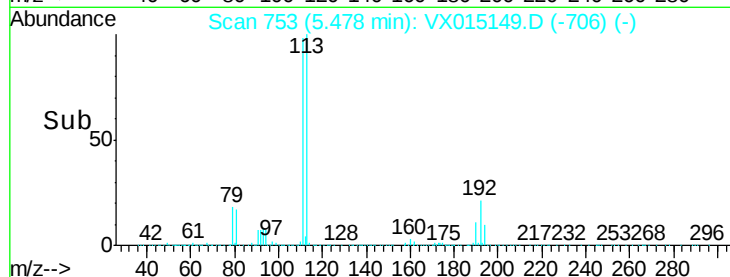
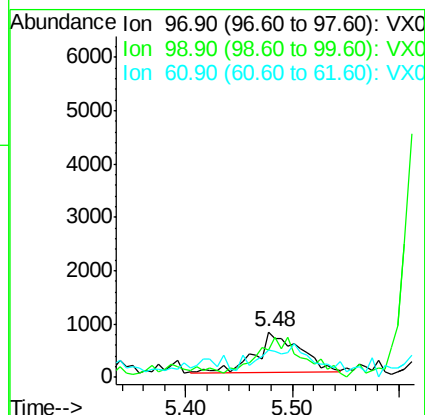
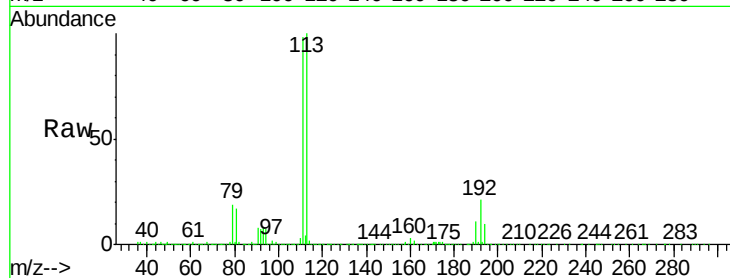
Tgt Ion: 97 Resp: 2186

Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

61 0.0 36.6 54.8#



#33

1,2-Dichloroethane-d4

Concen: 51.69 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015149.D

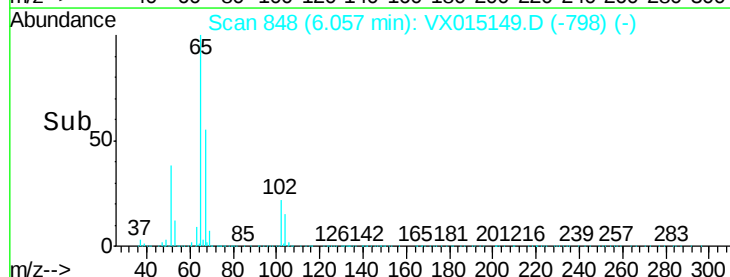
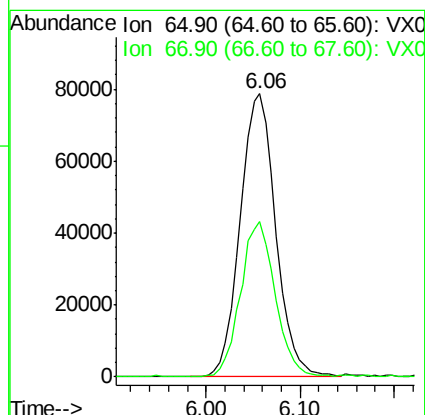
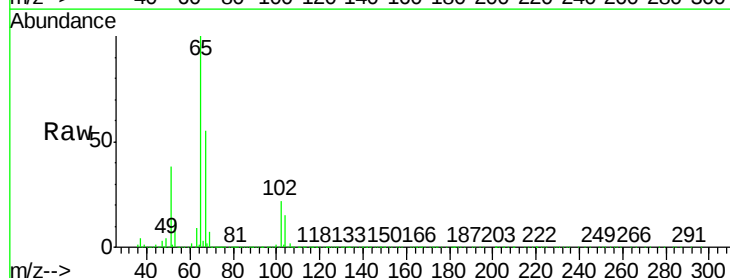
Acq: 09 Mar 2020 17:37

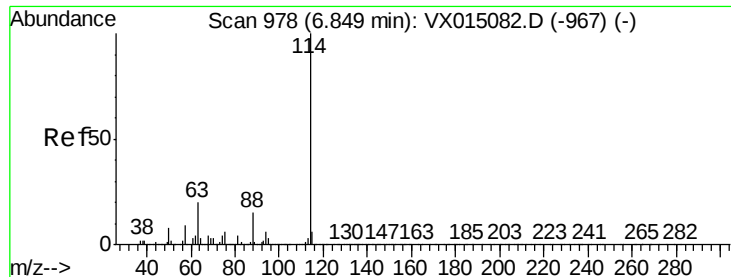
Tgt Ion: 65 Resp: 206519

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

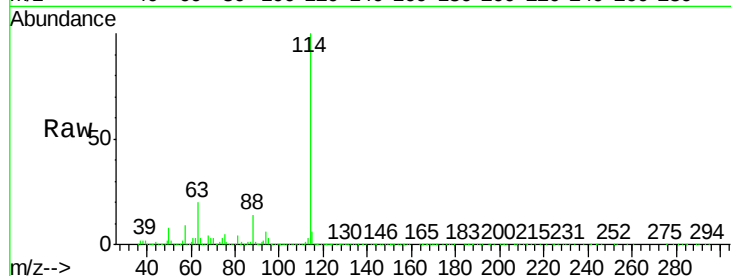
Tgt Ion:114 Resp: 548185

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

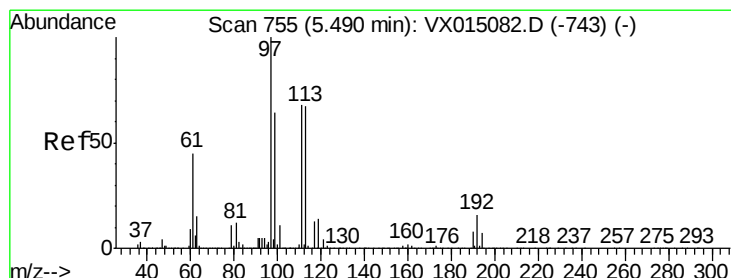
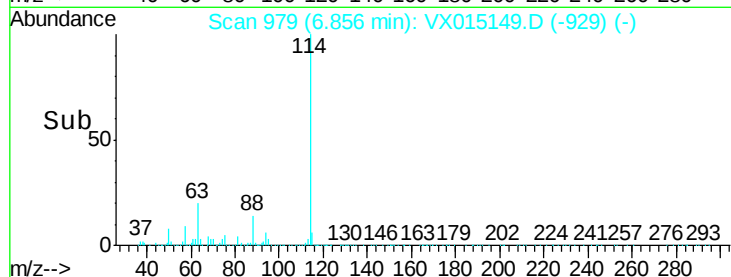
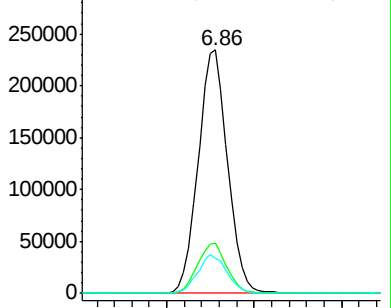
88 14.3 0.0 30.6



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: 50.28 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

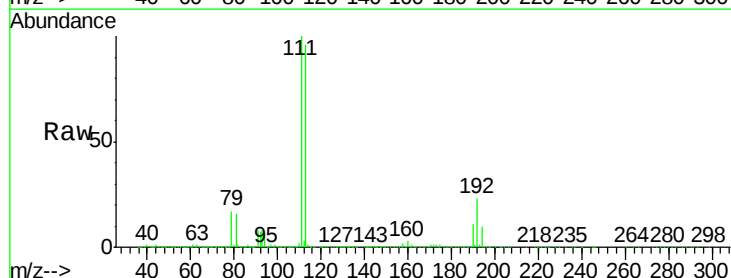
Tgt Ion:113 Resp: 173889

Ion Ratio Lower Upper

113 100

111 101.4 82.6 123.8

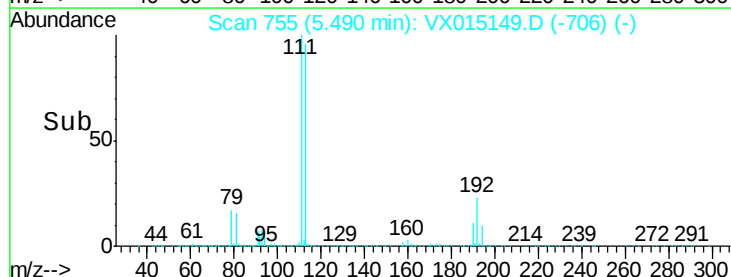
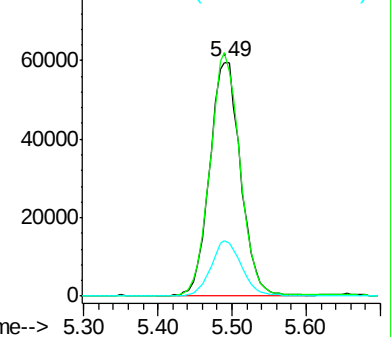
192 23.4 18.6 28.0

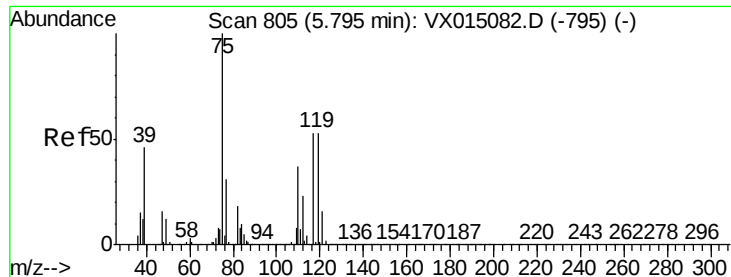


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

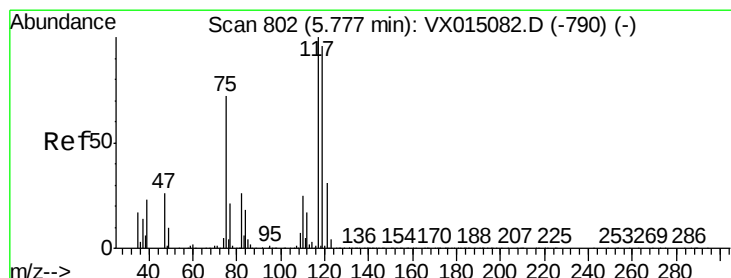
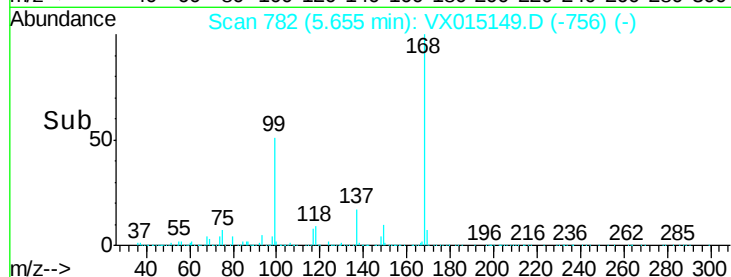
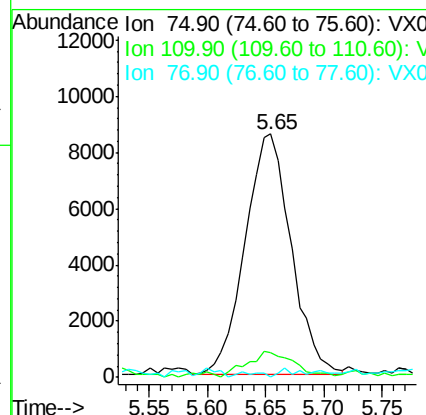
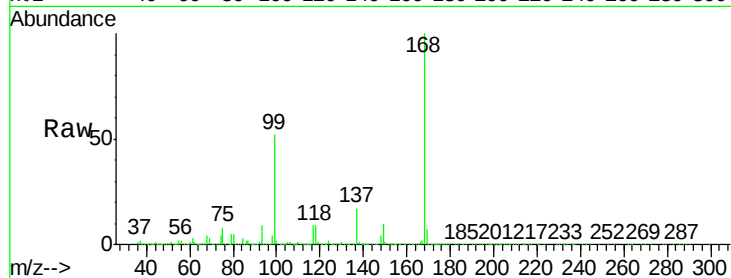




#36
 1,1-Dichloropropene
 Concen: 4.62 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015149.D
 Acq: 09 Mar 2020 17:37

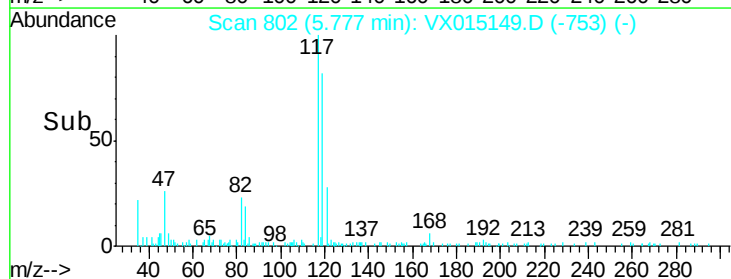
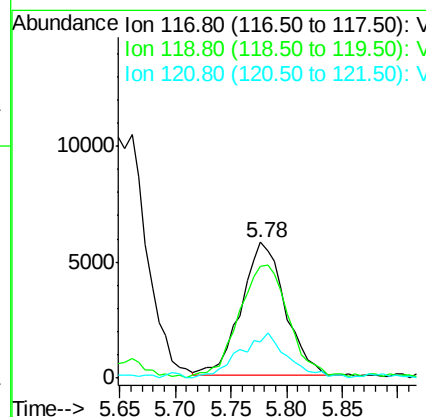
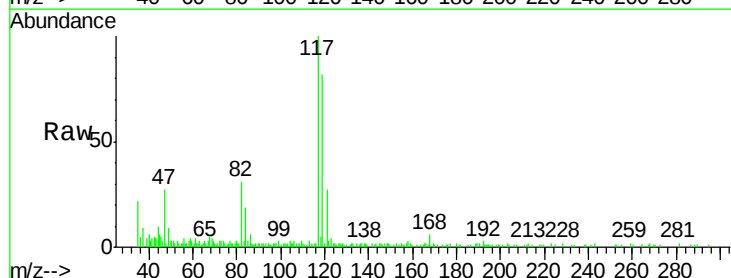
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20200305

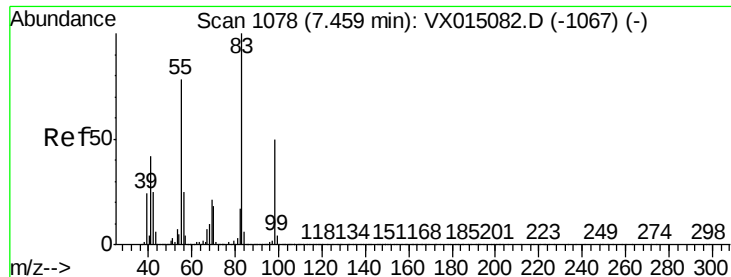
Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	17.9	53.8#
77	1.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 3.28 ug/l
 RT: 5.78 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VX015149.D
 Acq: 09 Mar 2020 17:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	81.9	76.9	115.3
121	27.5	24.6	37.0





#39

Methylcyclohexane

Concen: 17.15 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. -0.24 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

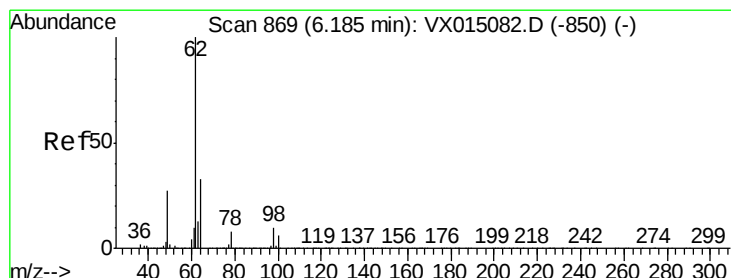
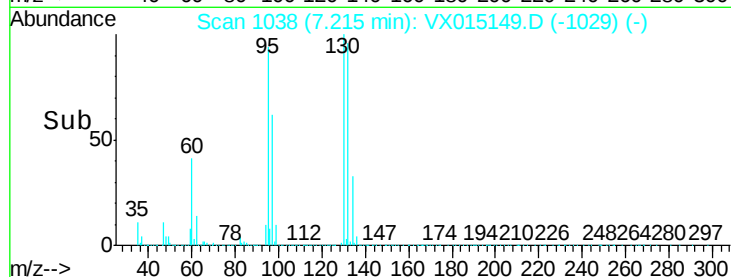
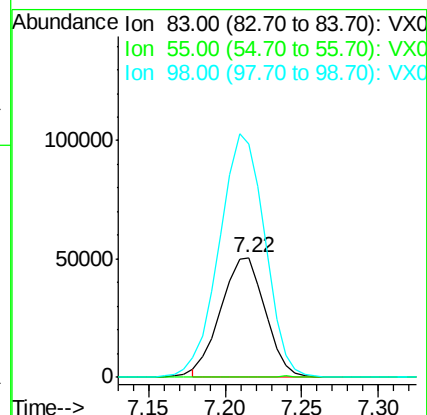
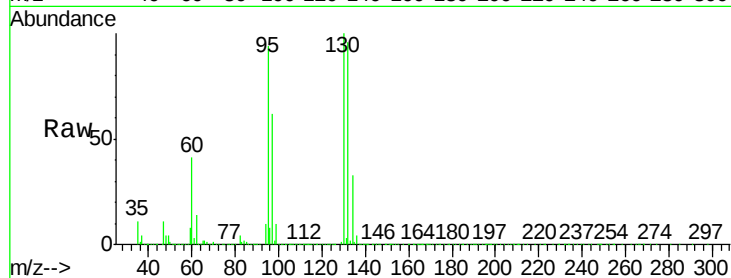
Tgt Ion: 83 Resp: 101470

Ion Ratio Lower Upper

83 100

55 0.1 62.4 93.6#

98 194.8 39.7 59.5#



#42

1,2-Dichloroethane

Concen: 0.38 ug/l

RT: 6.18 min Scan# 868

Delta R.T. -0.01 min

Lab File: VX015149.D

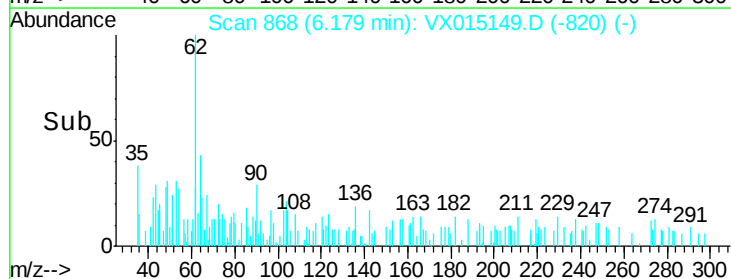
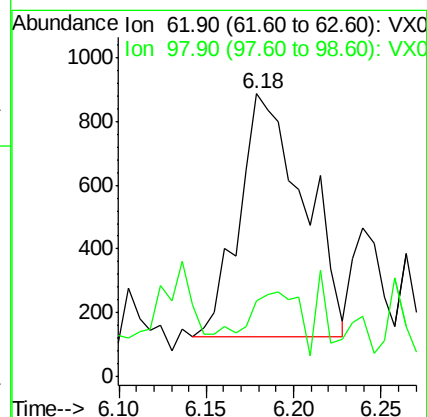
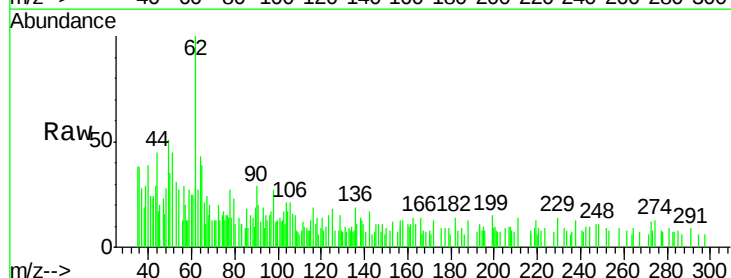
Acq: 09 Mar 2020 17:37

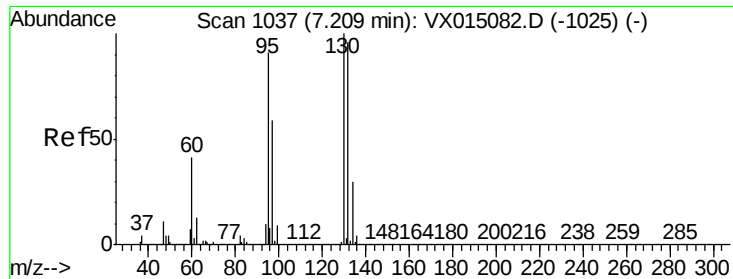
Tgt Ion: 62 Resp: 1964

Ion Ratio Lower Upper

62 100

98 19.5 0.0 20.6





#44

Trichloroethene

Concen: 2090.73 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

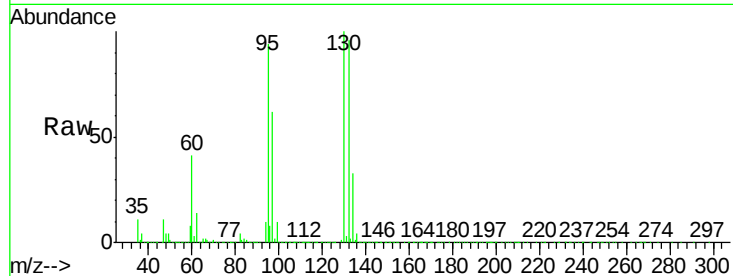
RE105D2-20200305

Tgt Ion:130 Resp: 8754391

Ion Ratio Lower Upper

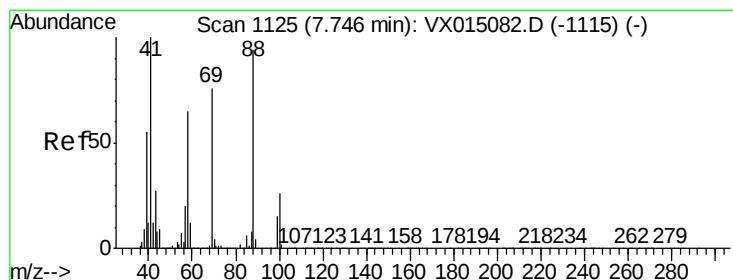
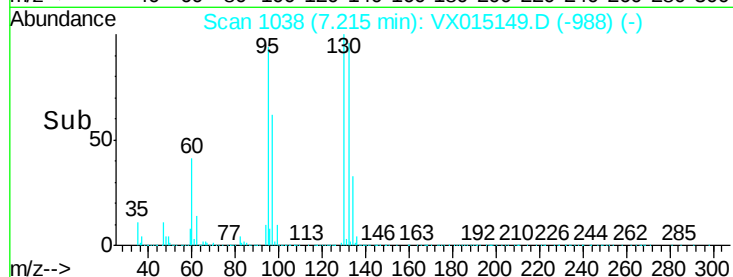
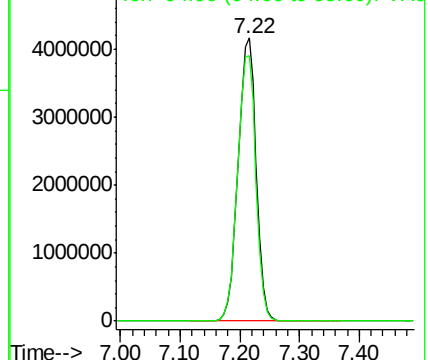
130 100

95 93.8 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 12.31 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.02 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

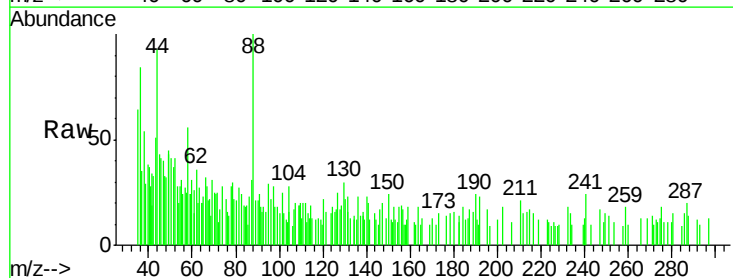
Tgt Ion: 88 Resp: 1120

Ion Ratio Lower Upper

88 100

43 67.0 27.0 40.4#

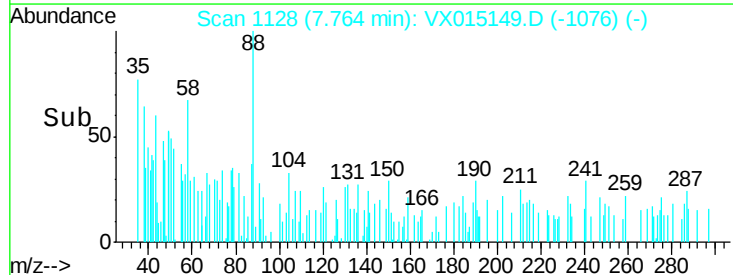
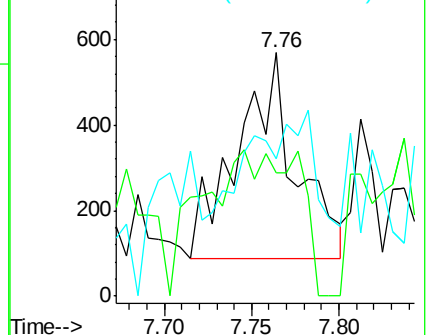
58 22.9 55.6 83.4#

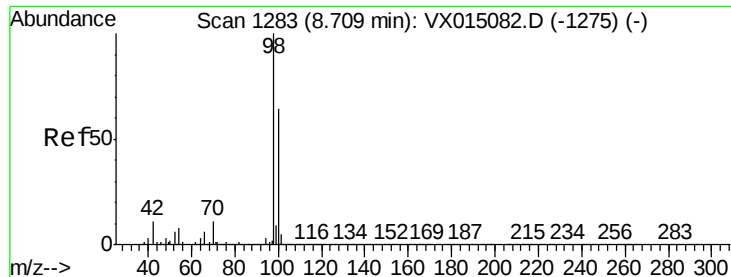


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.75 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

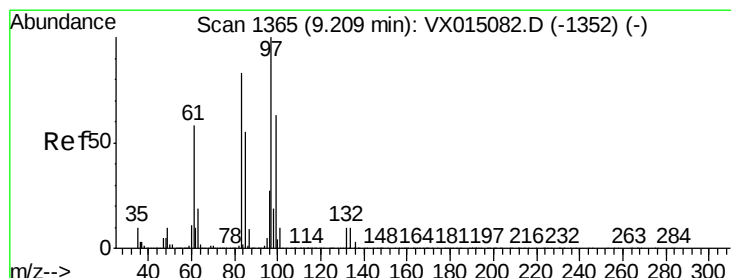
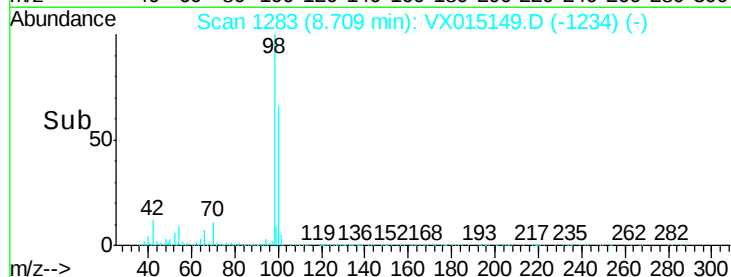
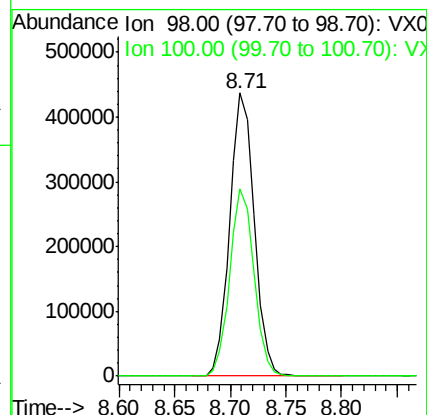
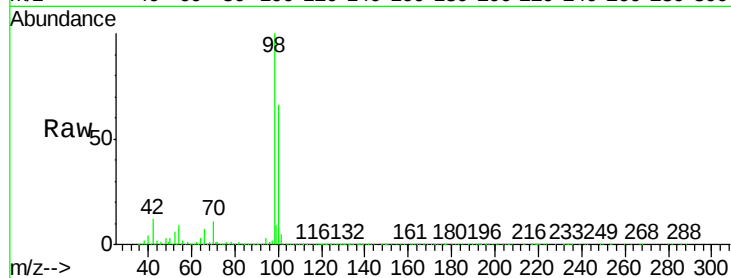
RE105D2-20200305

Tgt Ion: 98 Resp: 667579

Ion Ratio Lower Upper

98 100

100 65.7 52.4 78.6



#55

1,1,2-Trichloroethane

Concen: 1.19 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Tgt Ion: 97 Resp: 4521

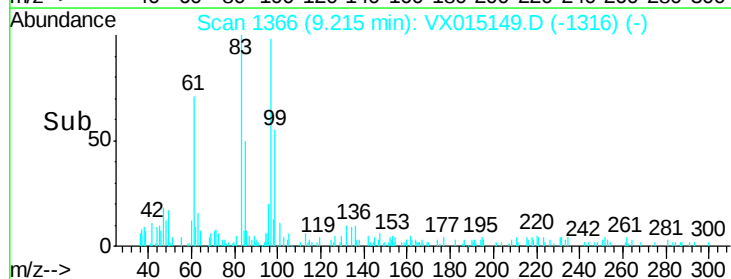
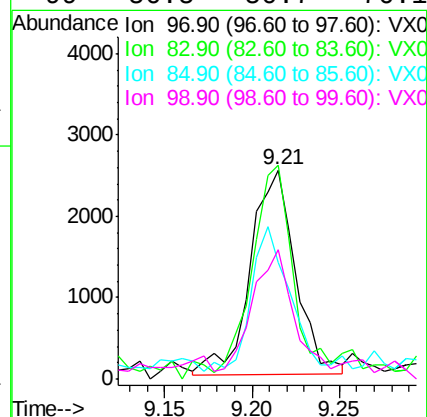
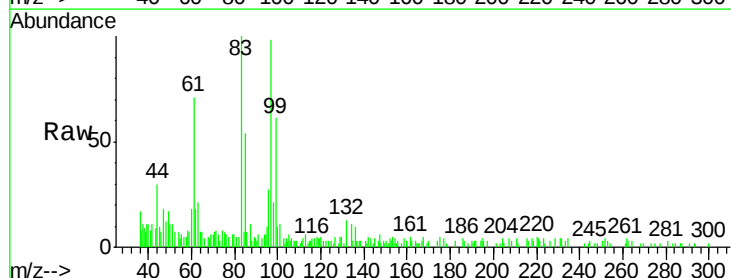
Ion Ratio Lower Upper

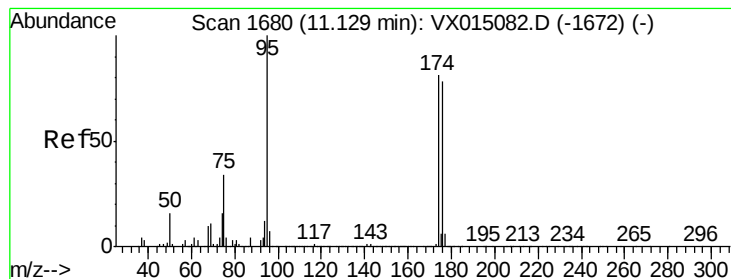
97 100

83 97.5 66.4 99.6

85 48.9 43.5 65.3

99 56.5 50.7 76.1





#62

4-Bromofluorobenzene

Concen: 51.56 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

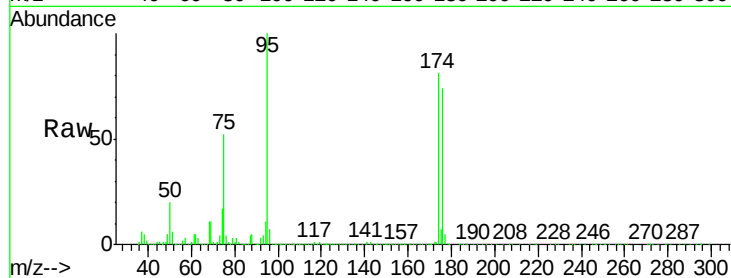
Tgt Ion: 95 Resp: 241914

Ion Ratio Lower Upper

95 100

174 90.3 0.0 177.6

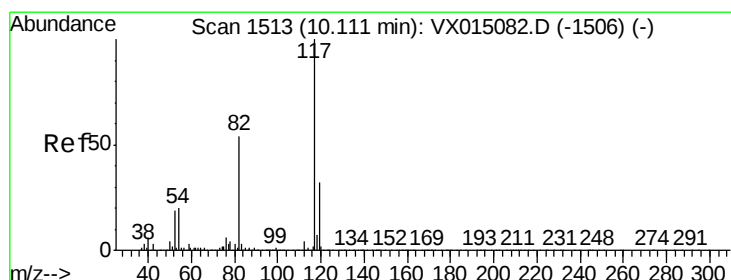
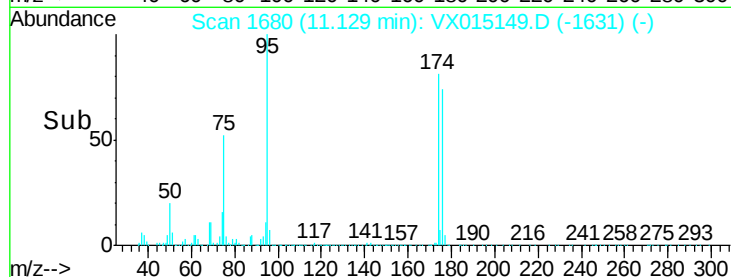
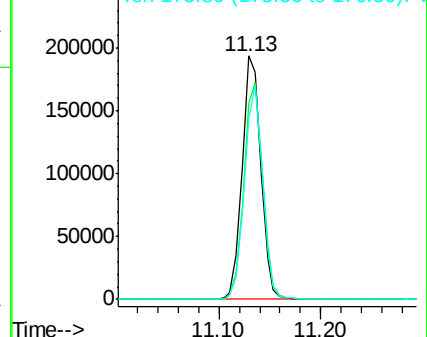
176 86.4 0.0 170.2



Abundance Ion 94.90 (94.60 to 95.60): VX015149.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX015149.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX015149.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

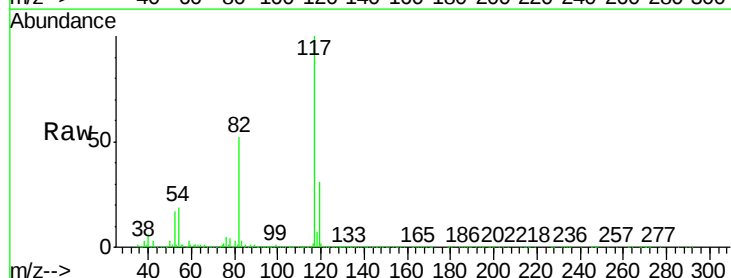
Tgt Ion: 117 Resp: 533484

Ion Ratio Lower Upper

117 100

82 51.7 43.3 64.9

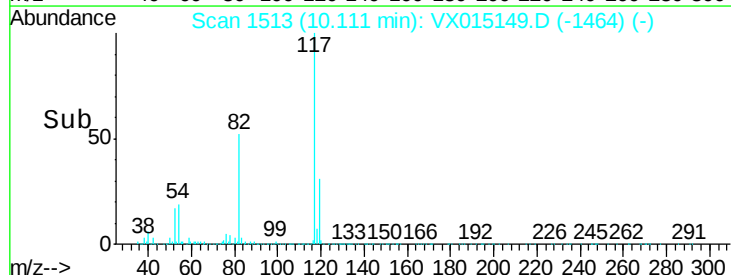
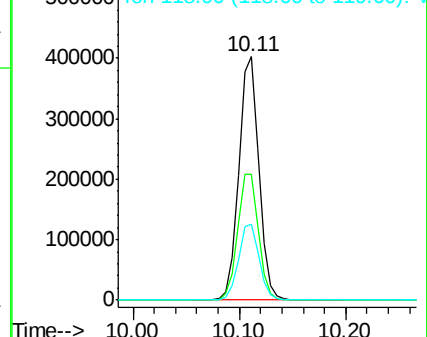
119 31.2 25.8 38.8

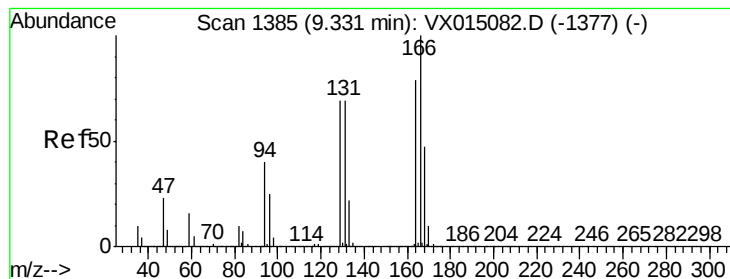


Abundance Ion 116.90 (116.60 to 117.60): VX015149.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX015149.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX015149.D (-1464) (-)





#64

Tetrachloroethene

Concen: 2.95 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

Tgt Ion:164 Resp: 13033

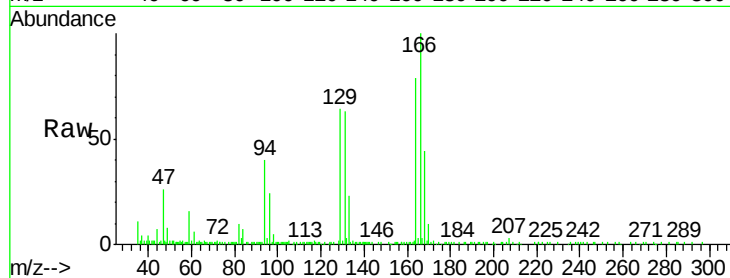
Ion Ratio Lower Upper

164 100

166 127.0 101.1 151.7

129 79.8 69.4 104.0

131 79.7 69.8 104.8

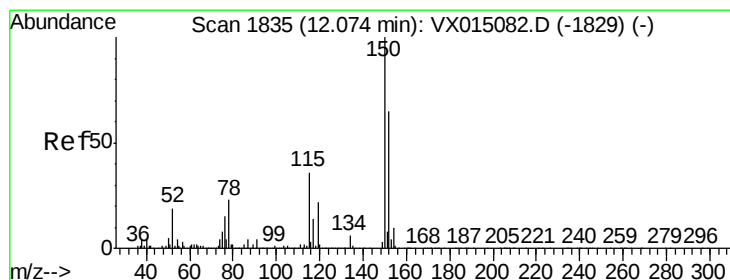
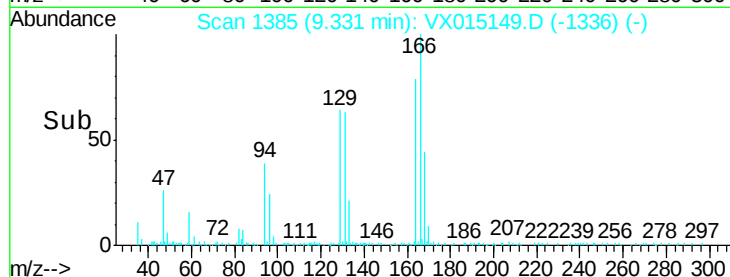
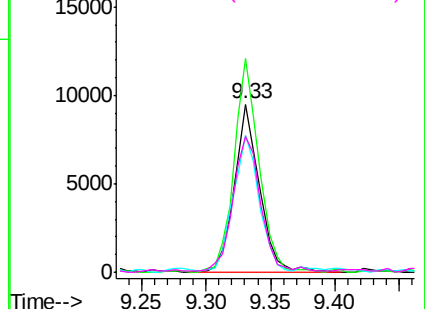


Abundance Ion 163.80 (163.50 to 164.50): V

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: 50.00 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

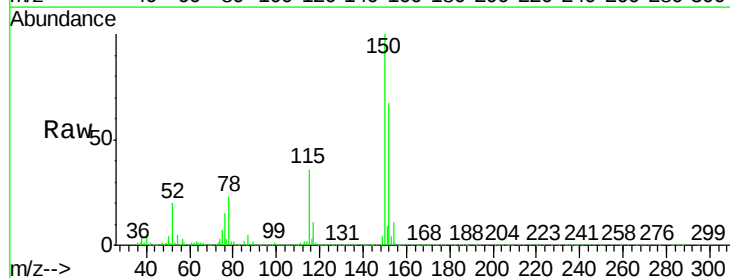
Tgt Ion:152 Resp: 272290

Ion Ratio Lower Upper

152 100

115 55.8 38.2 114.6

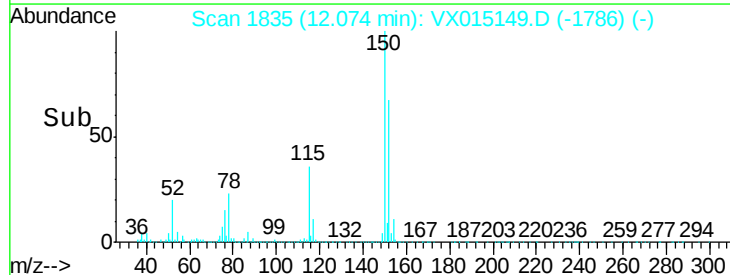
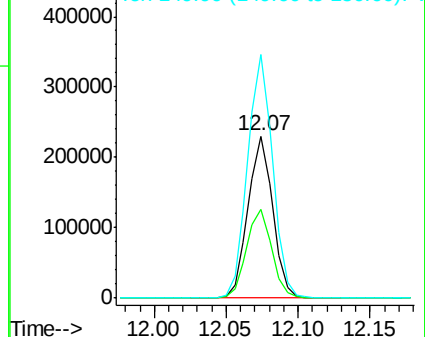
150 153.0 0.0 343.8

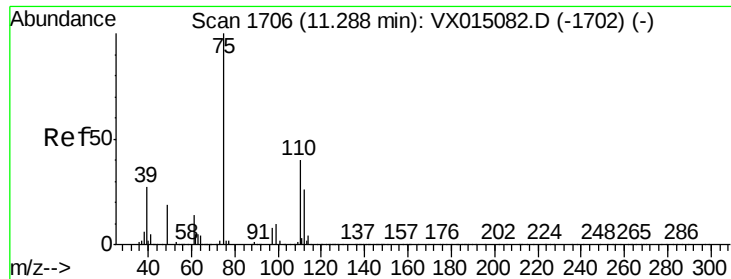


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

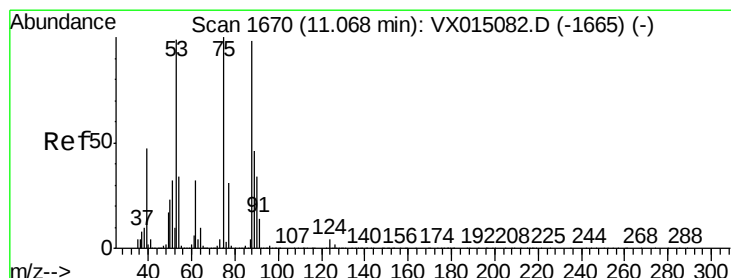
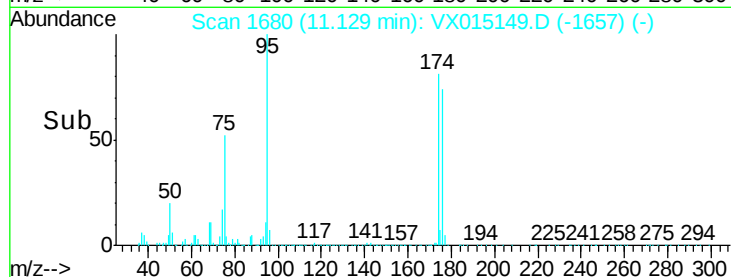
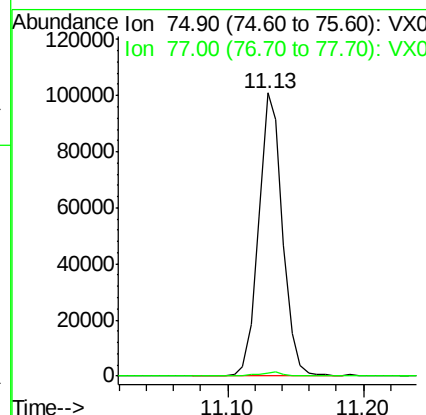
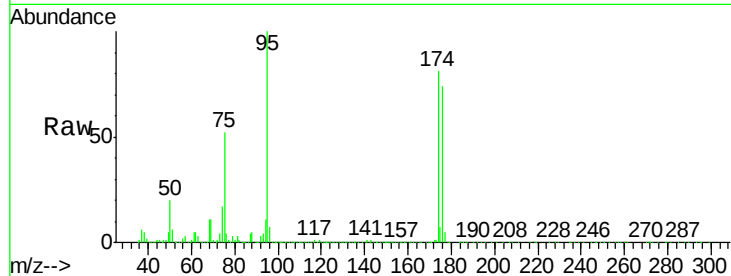




#76
 1,2,3-Trichloropropane
 Concen: 22.98 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015149.D
 Acq: 09 Mar 2020 17:37

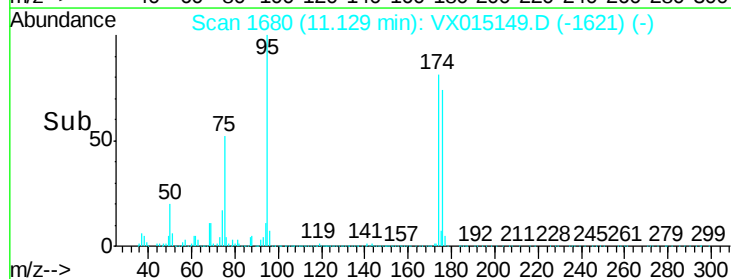
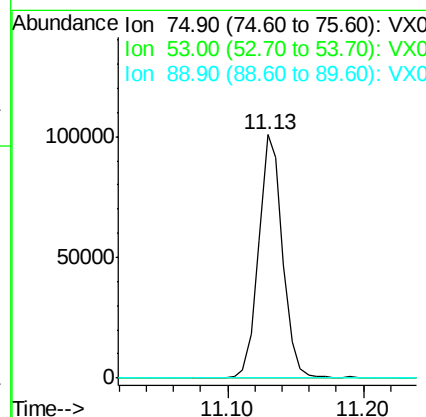
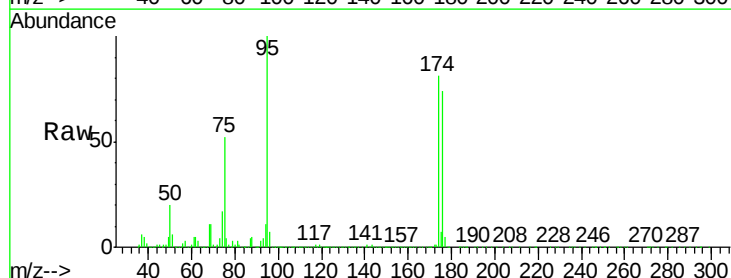
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20200305

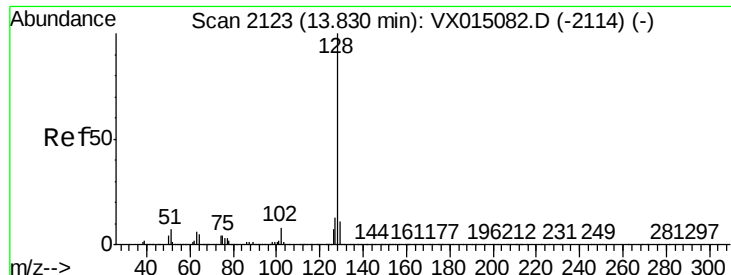
Tgt Ion: 75 Resp: 124838
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.23 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX015149.D
 Acq: 09 Mar 2020 17:37

Tgt Ion: 75 Resp: 124838
 Ion Ratio Lower Upper
 75 100
 53 0.2 77.9 116.9#
 89 0.1 36.2 54.2#





#95

Naphthalene

Concen: 1.45 ug/l

RT: 13.84 min Scan# 2125

Delta R.T. 0.01 min

Lab File: VX015149.D

Acq: 09 Mar 2020 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20200305

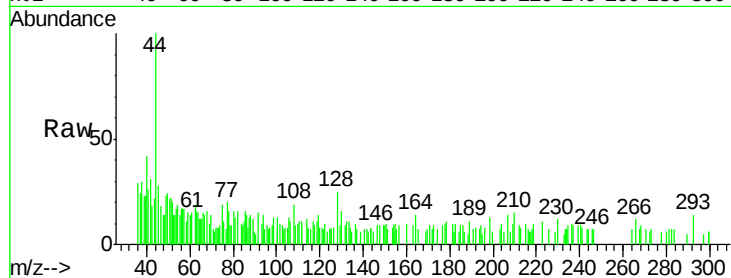
Tgt Ion:128 Resp: 638

Ion Ratio Lower Upper

128 100

127 27.3 10.3 15.5#

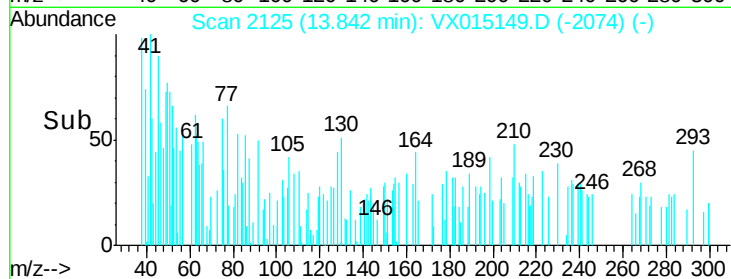
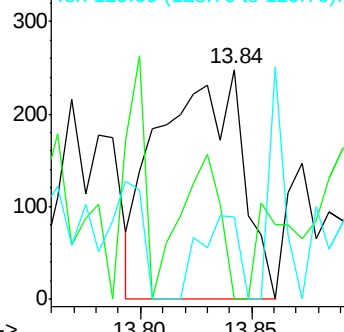
129 17.2 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->