

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031620\
 Data File : VX015288.D
 Acq On : 16 Mar 2020 12:57
 Operator : JC/SP
 Sample : L1903-26DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20200311DL

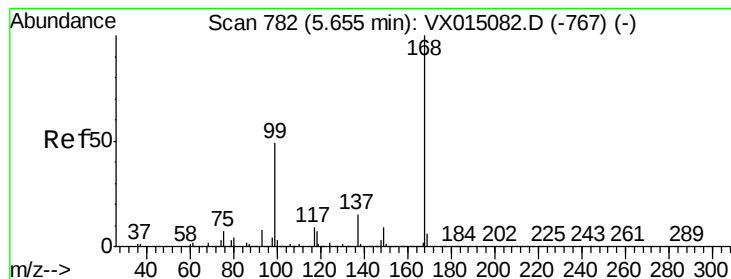
Quant Time: Mar 17 07:40:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	290336	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	486446	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	468574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	243911	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	164434	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
35) Dibromofluoromethane	5.49	113	142216	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	
50) Toluene-d8	8.71	98	609437	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
62) 4-Bromofluorobenzene	11.13	95	212966	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	575	0.226	ug/l #	63
5) Bromomethane	1.66	94	1182	0.526	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	6895	2.522	ug/l	93
10) Methyl Iodide	2.53	142	1064	0.344	ug/l #	22
11) Tert butyl alcohol	3.05	59	167	0.279	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	1560	0.553	ug/l	86
13) Acrolein	2.29	56	166	0.296	ug/l	92
15) Acrylonitrile	3.13	53	524	0.352	ug/l #	35
16) Acetone	2.44	43	977	0.700	ug/l #	44
20) Methylene Chloride	2.86	84	1121	0.343	ug/l #	40
24) 1,1-Dichloroethane	3.70	63	1848	0.340	ug/l #	72
25) 2-Butanone	4.69	43	804	0.394	ug/l #	52
27) cis-1,2-Dichloroethene	4.59	96	3882	1.149	ug/l	74
29) Tetrahydrofuran	5.13	42	702	0.533	ug/l #	84
36) 1,1-Dichloropropene	5.65	75	19560	4.350	ug/l #	51
38) Carbon Tetrachloride	5.65	117	25997	6.124	ug/l #	17
41) Methacrylonitrile	5.05	41	623	0.249	ug/l #	47
44) Trichloroethene	7.20	130	189448	50.986	ug/l	97
49) 1,4-Dioxane	7.75	88	837	10.365	ug/l #	63
64) Tetrachloroethene	9.33	164	7193	1.857	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	100947	20.748	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	100947	58.884	ug/l #	11
95) Naphthalene	13.83	128	1393	1.504	ug/l #	55

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015288.D

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MSVOA_X

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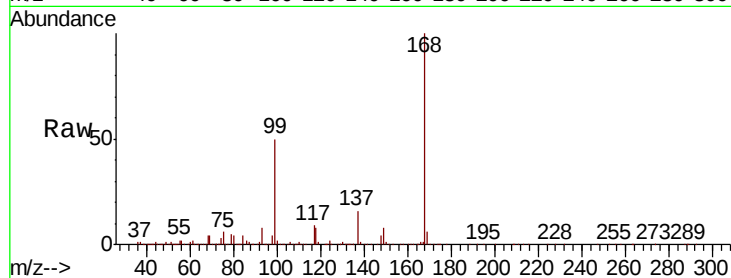
RE125D1-20200311DL

Tot Ion:168 Resp: 290336

Ion Ratio Lower Upper

168 100

99 49.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

20000

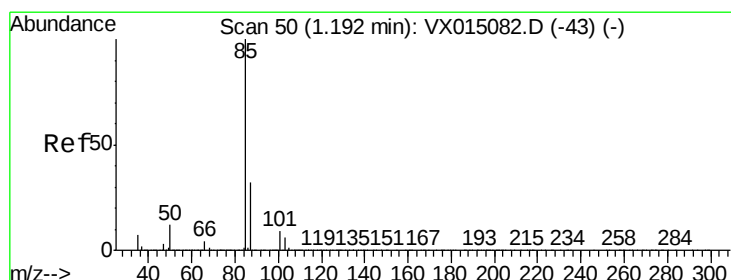
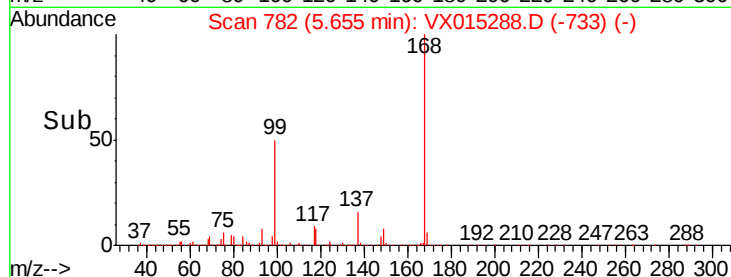
0

5.50

5.60

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.226 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX015288.D

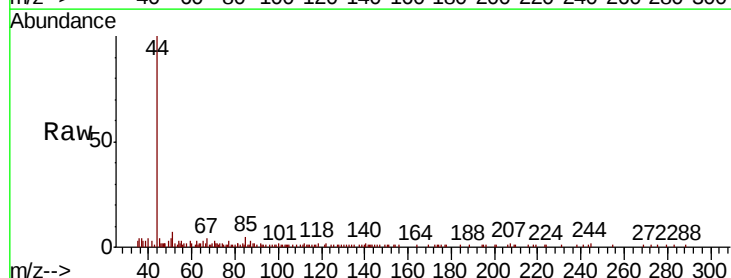
Acq: 16 Mar 2020 12:57

Tgt Ion: 85 Resp: 575

Ion Ratio Lower Upper

85 100

87 11.8 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

200

100

0

1.16

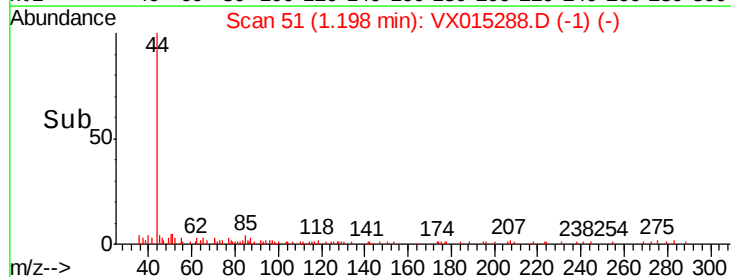
1.18

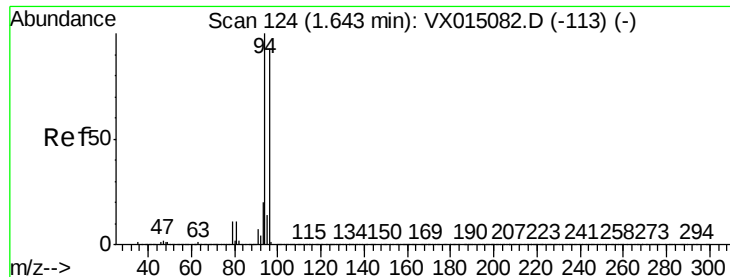
1.20

1.22

1.24

Time-->





#5

Bromomethane

Concen: 0.526 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.02 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

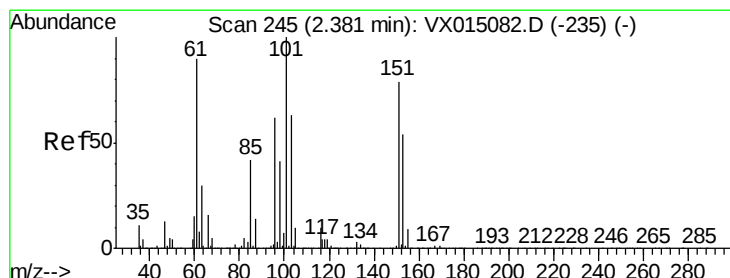
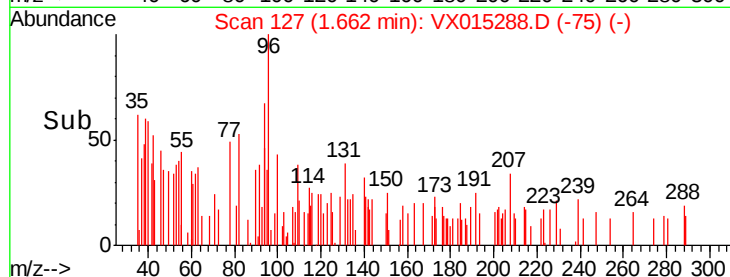
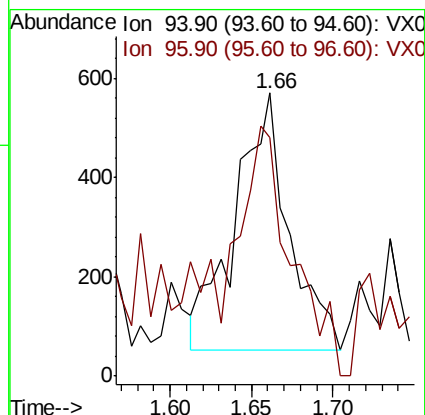
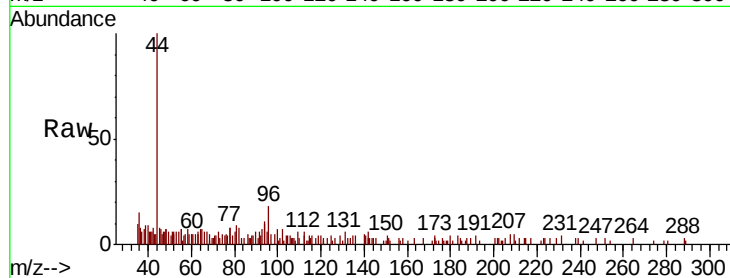
RE125D1-20200311DL

Tot Ion: 94 Resp: 1182

Ion Ratio Lower Upper

94 100

96 93.1 74.6 111.8



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.522 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

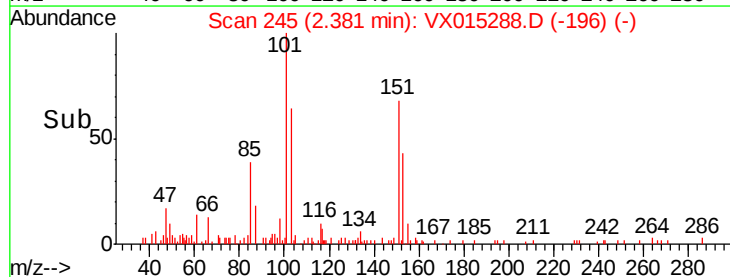
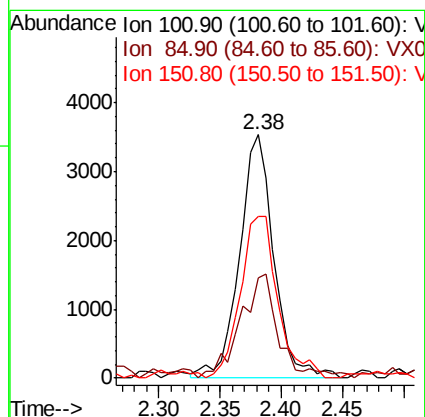
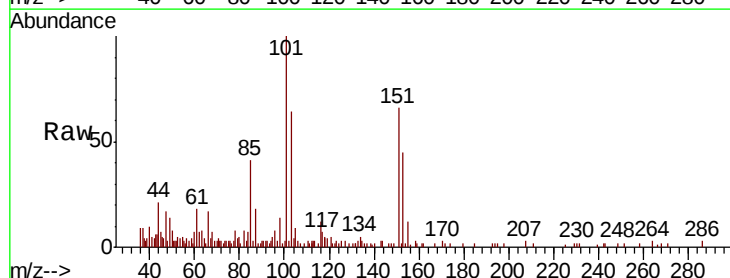
Tgt Ion:101 Resp: 6895

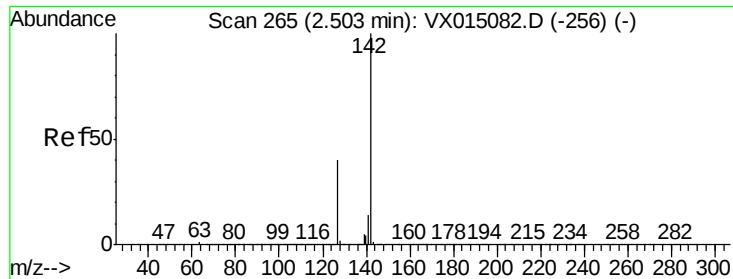
Ion Ratio Lower Upper

101 100

85 44.9 33.7 50.5

151 72.8 64.0 96.0

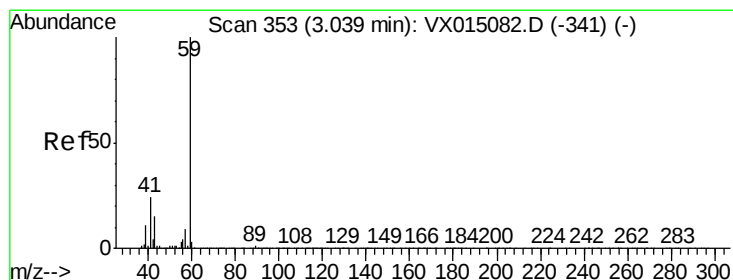
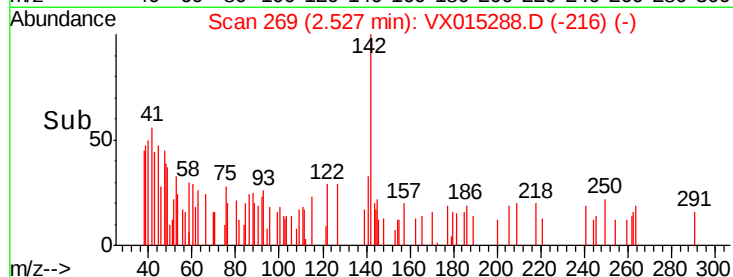
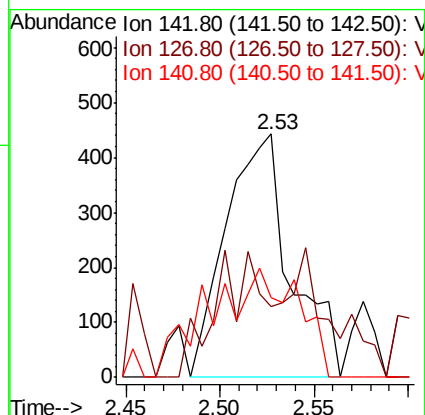
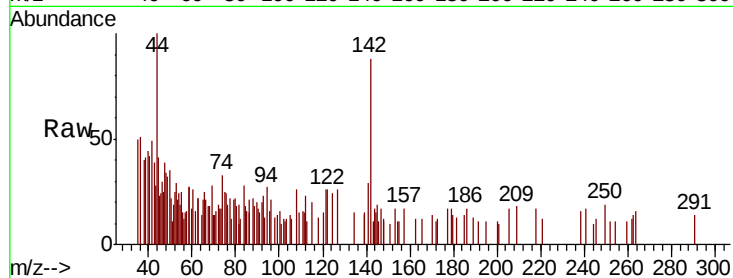




#10
Methvl Iodide
Concen: 0.344 ug/l
RT: 2.53 min Scan# 269
Delta R.T. 0.02 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

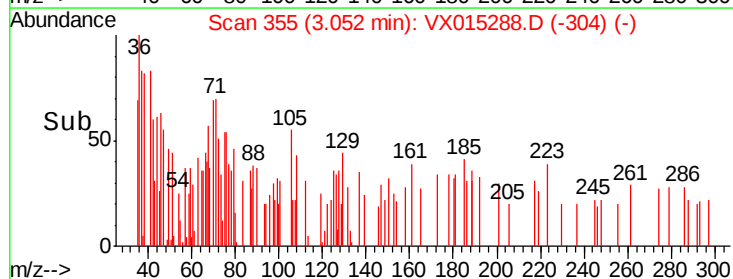
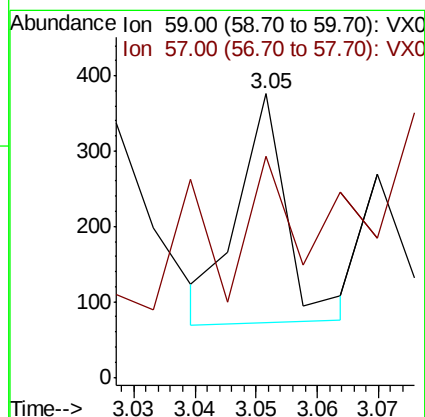
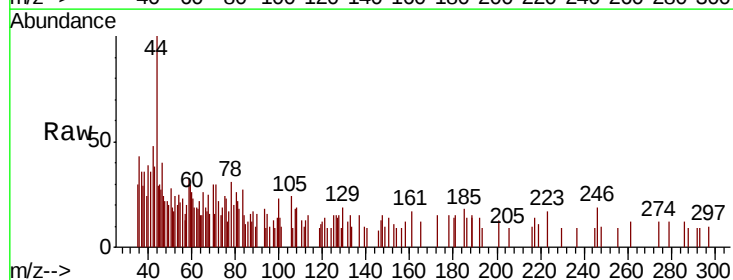
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20200311DL

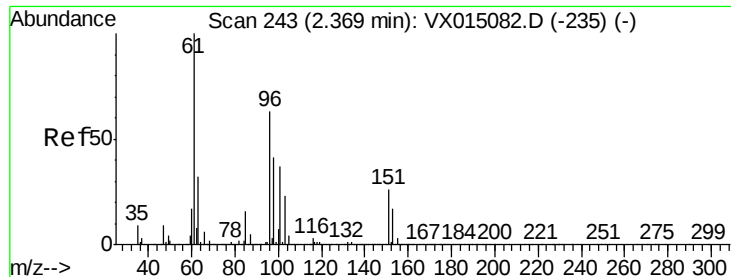
Tot Ion:142 Resp: 1064
Ion Ratio Lower Upper
142 100
127 0.0 31.7 47.5#
141 61.3 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.279 ug/l
RT: 3.05 min Scan# 355
Delta R.T. 0.01 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

Tgt Ion: 59 Resp: 167
Ion Ratio Lower Upper
59 100
57 53.3 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.553 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

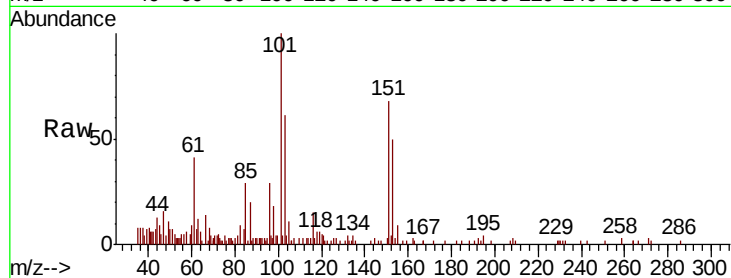
Tot Ion: 96 Resp: 1560

Ion Ratio Lower Upper

96 100

61 134.9 126.2 189.4

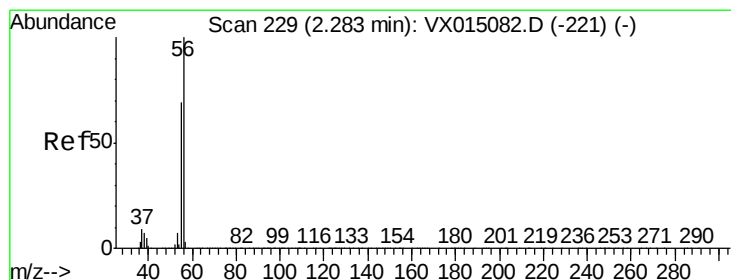
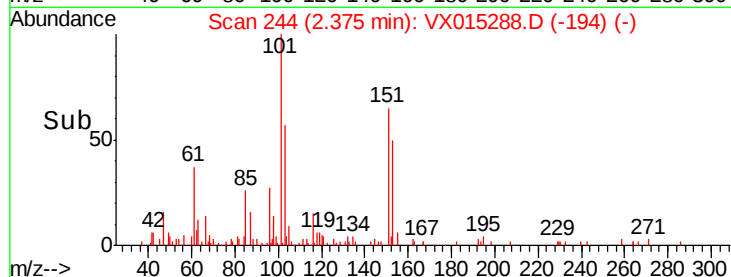
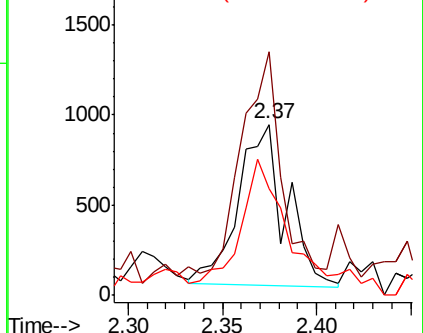
98 59.2 51.4 77.0



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: 0.296 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX015288.D

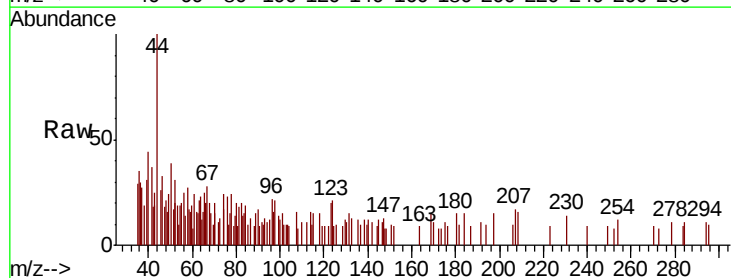
Acq: 16 Mar 2020 12:57

Tgt Ion: 56 Resp: 166

Ion Ratio Lower Upper

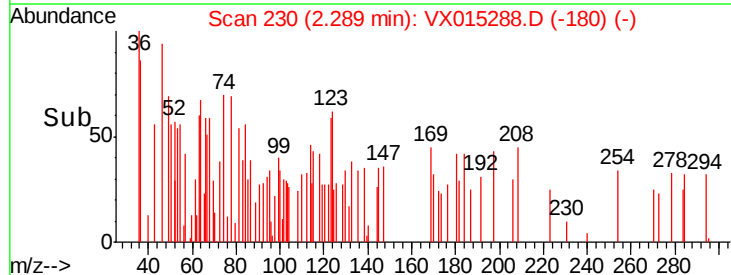
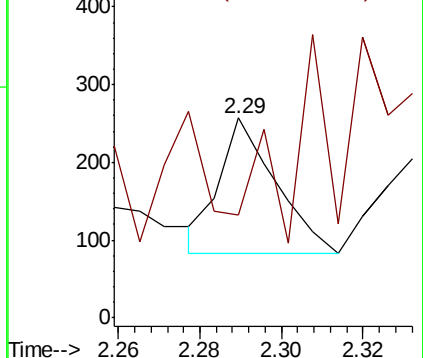
56 100

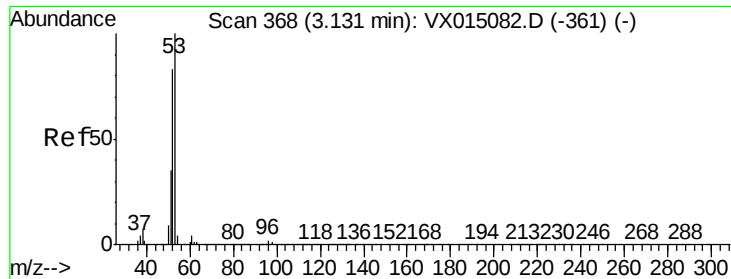
55 75.9 55.4 83.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.352 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

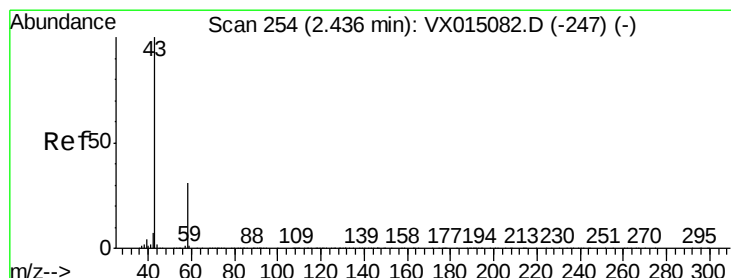
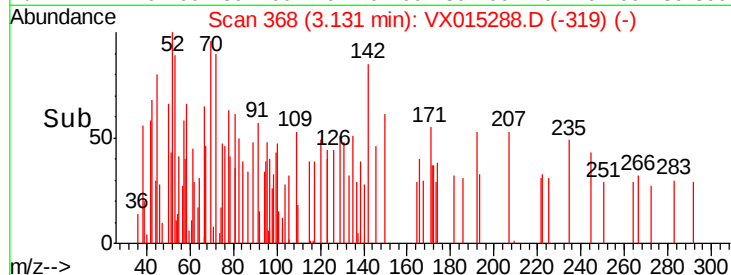
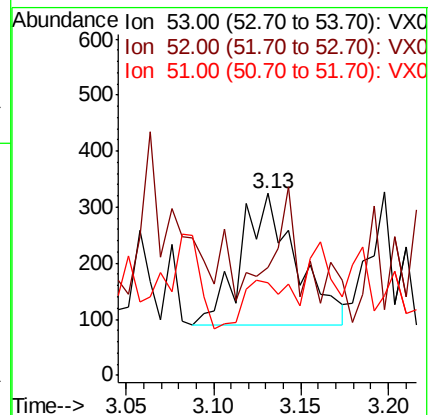
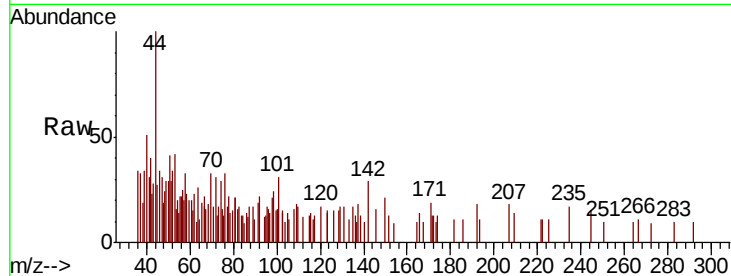
Tot Ion: 53 Resp: 524

Ion Ratio Lower Upper

53 100

52 0.0 66.6 100.0#

51 34.4 29.0 43.6



#16

Acetone

Concen: 0.700 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015288.D

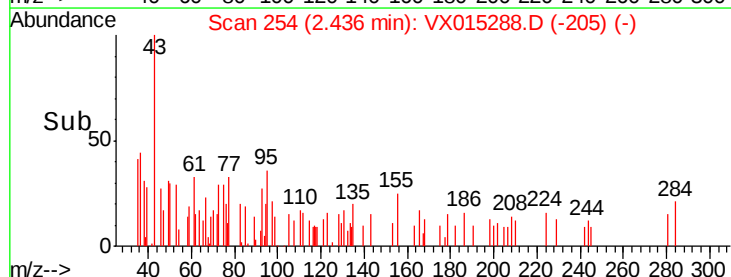
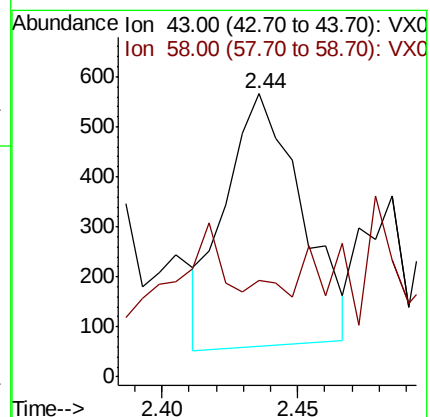
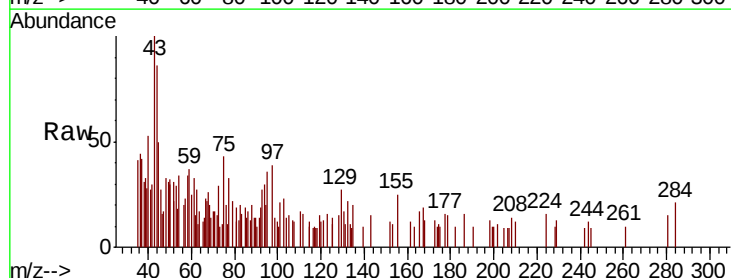
Acq: 16 Mar 2020 12:57

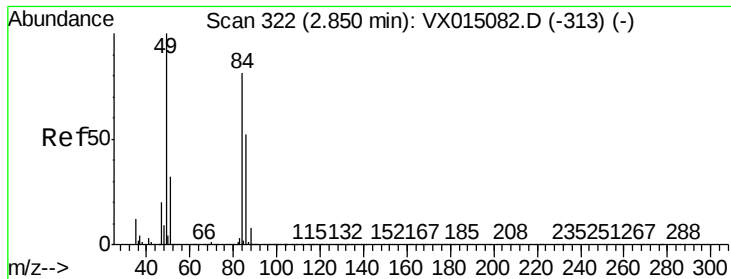
Tgt Ion: 43 Resp: 977

Ion Ratio Lower Upper

43 100

58 0.0 24.8 37.2#

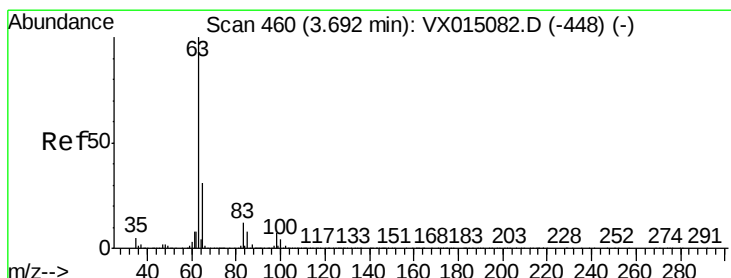
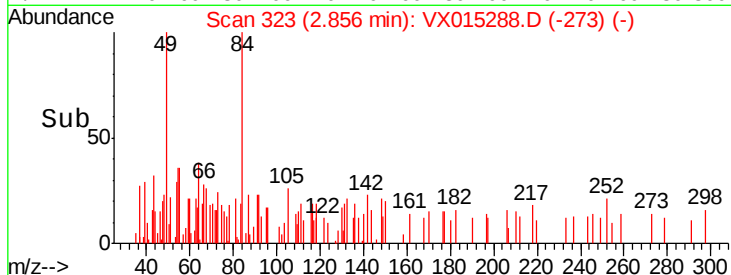
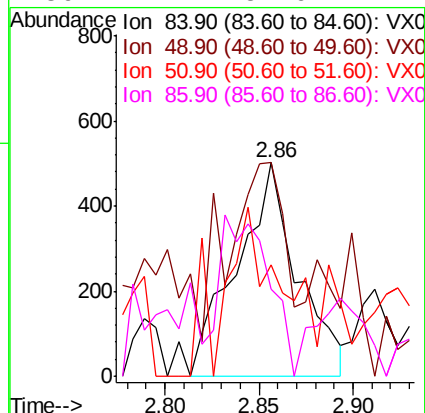
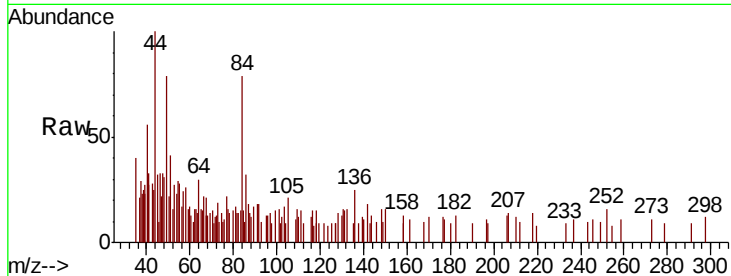




#20
Methvlene Chloride
Concen: 0.343 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

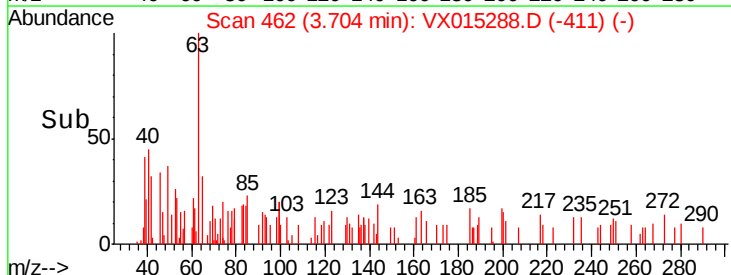
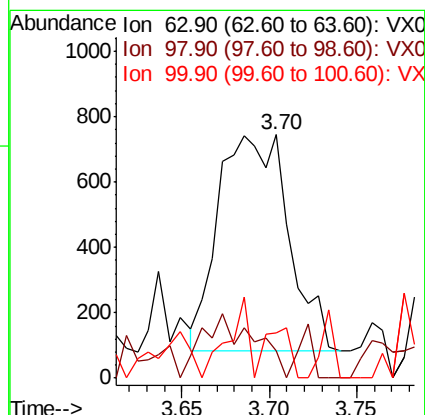
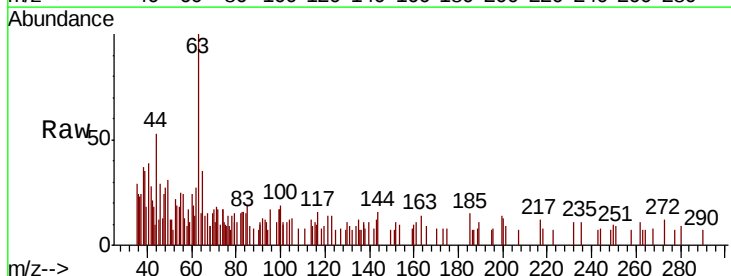
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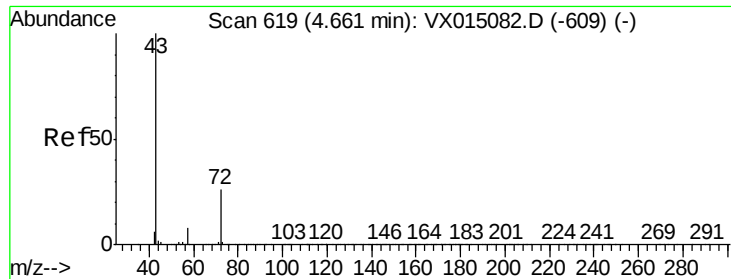
Tot Ion: 84 Resp: 1121
Ion Ratio Lower Upper
84 100
49 51.6 99.4 149.2#
51 52.2 31.5 47.3#
86 4.4 51.6 77.4#



#24
1,1-Dichloroethane
Concen: 0.340 ug/l
RT: 3.70 min Scan# 462
Delta R.T. 0.01 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

Tgt Ion: 63 Resp: 1848
Ion Ratio Lower Upper
63 100
98 12.8 3.7 11.1#
100 21.0 2.1 6.5#

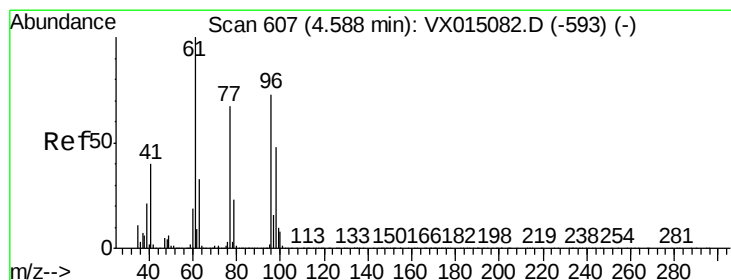
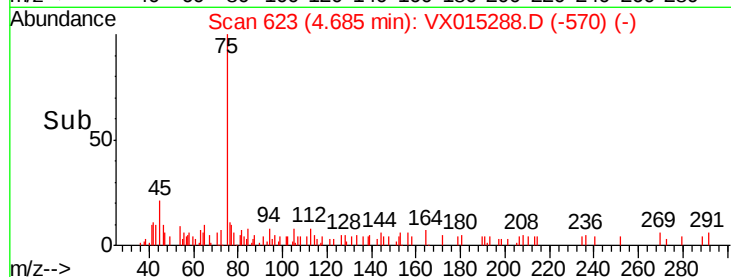
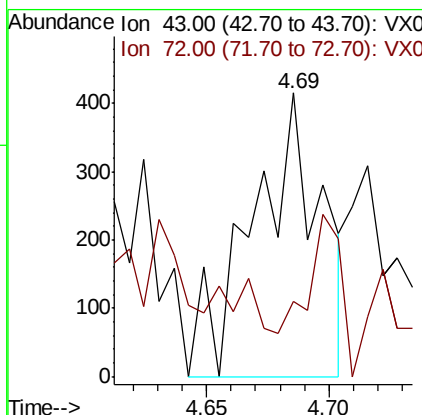
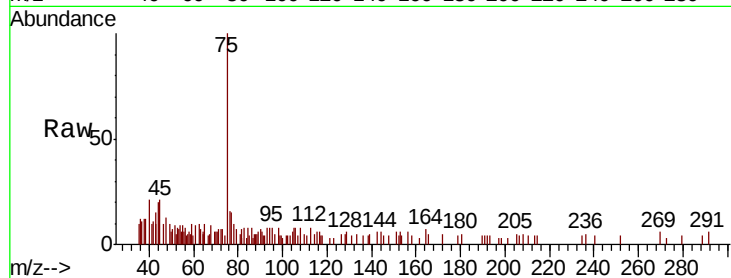




#25
2-Butanone
Concen: 0.394 ug/l
RT: 4.69 min Scan# 623
Delta R.T. 0.02 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

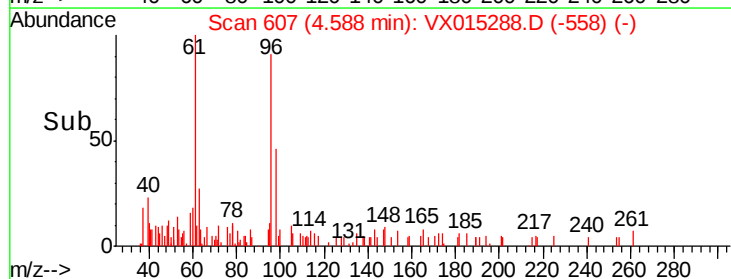
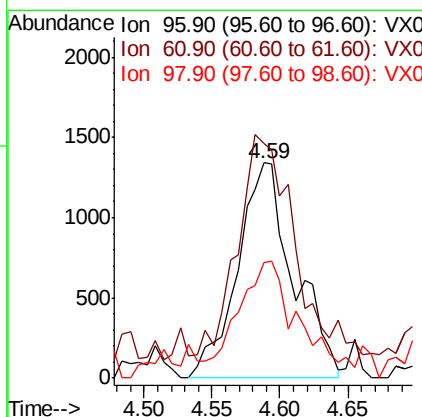
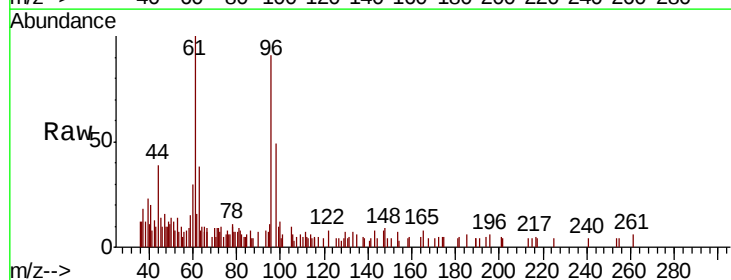
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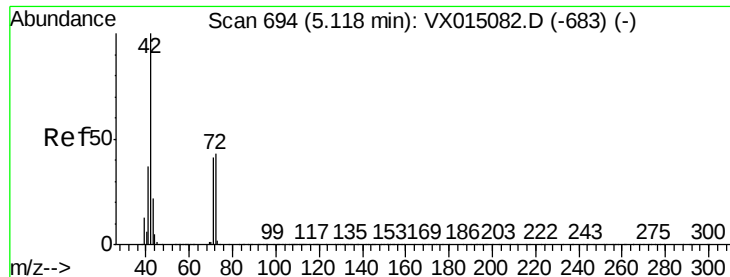
Tot Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
72 1.4 20.6 30.8#



#27
cis-1,2-Dichloroethene
Concen: 1.149 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

Tgt Ion: 96 Resp: 3882
Ion Ratio Lower Upper
96 100
61 107.2 0.0 286.8
98 49.2 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.533 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

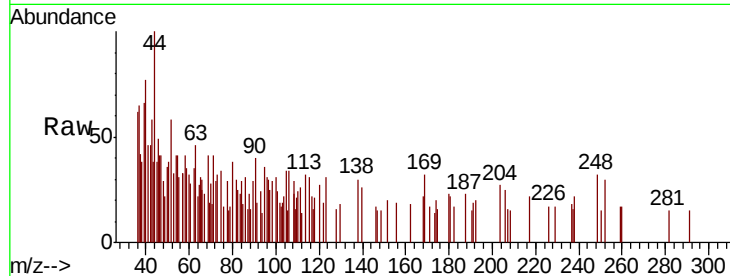
Tot Ion: 42 Resp: 702

Ion Ratio Lower Upper

42 100

72 35.8 36.4 54.6#

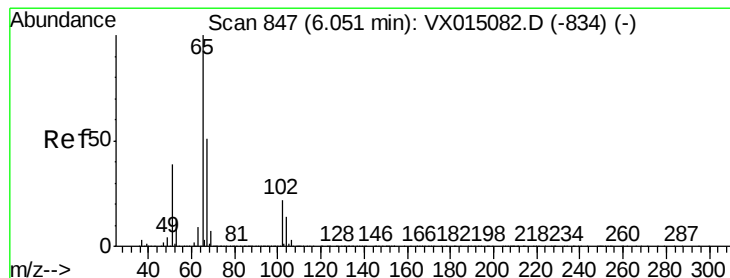
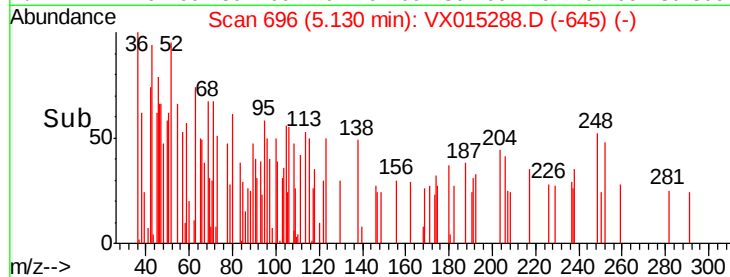
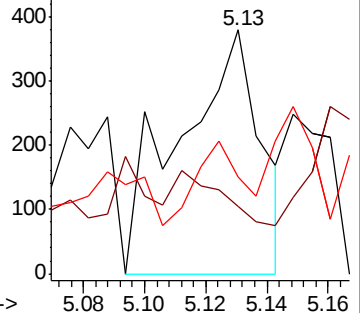
71 31.1 33.3 49.9#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.739 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015288.D

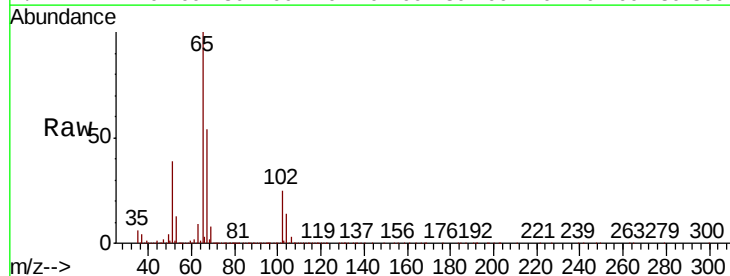
Acq: 16 Mar 2020 12:57

Tgt Ion: 65 Resp: 164434

Ion Ratio Lower Upper

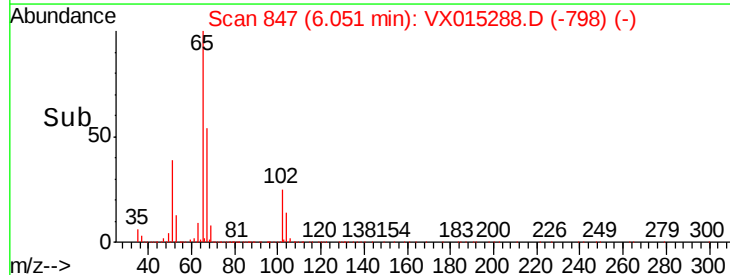
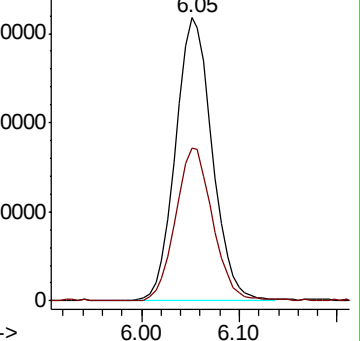
65 100

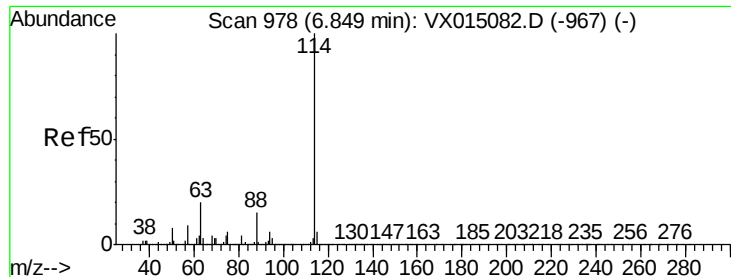
67 55.1 0.0 105.6



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: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

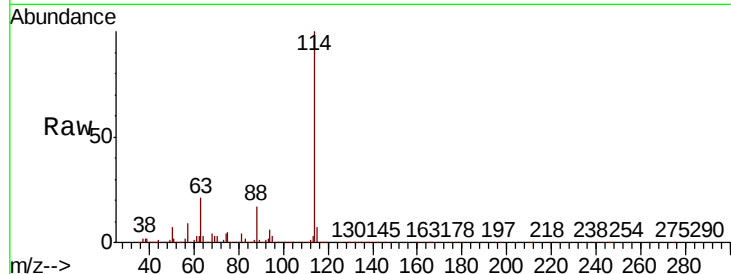
Tot Ion:114 Resp: 486446

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

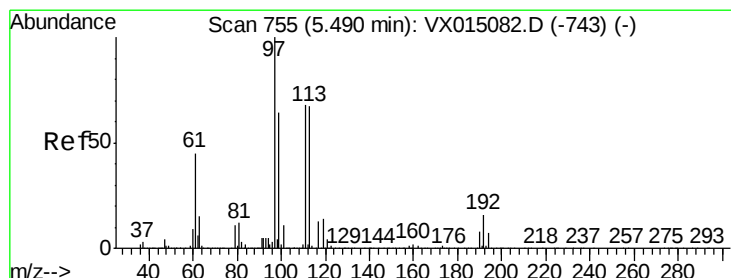
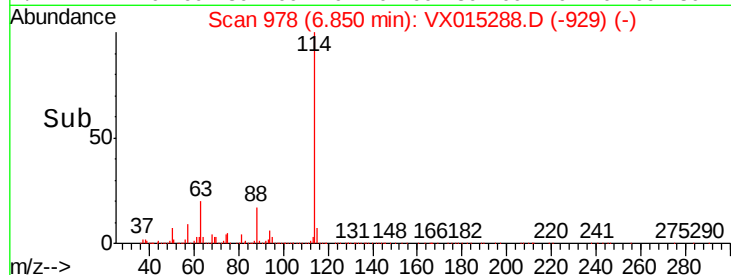
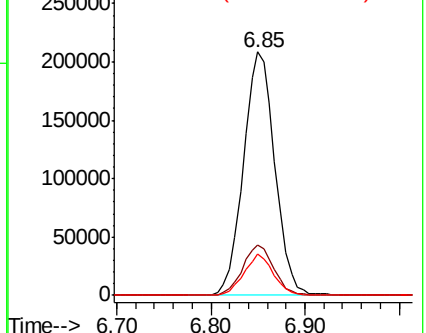
88 16.9 0.0 30.6



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: 46.342 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

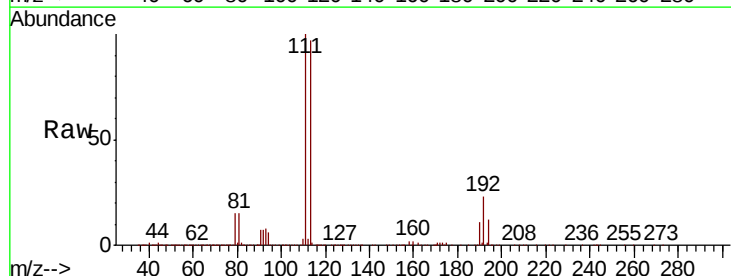
Tgt Ion:113 Resp: 142216

Ion Ratio Lower Upper

113 100

111 102.0 82.6 123.8

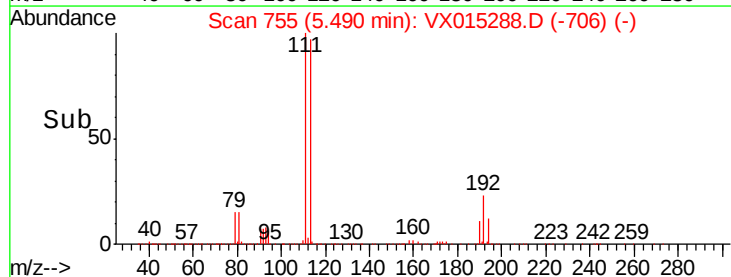
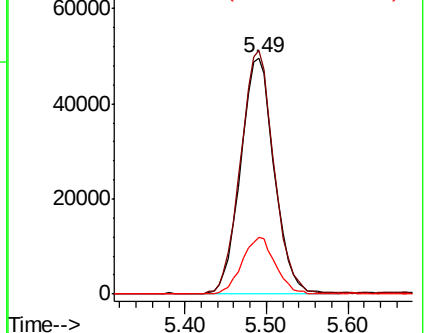
192 24.0 18.6 28.0

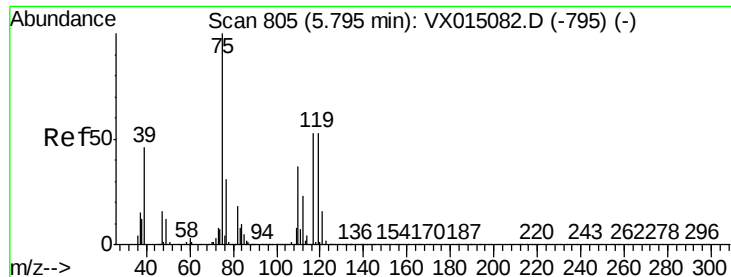


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

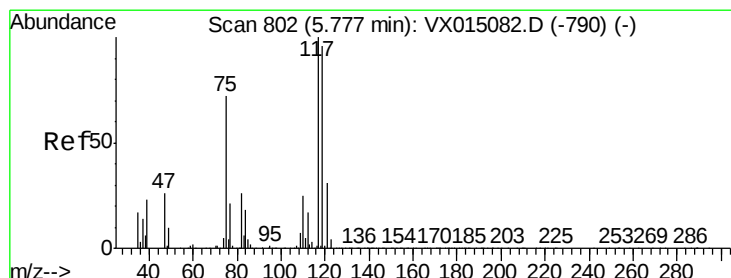
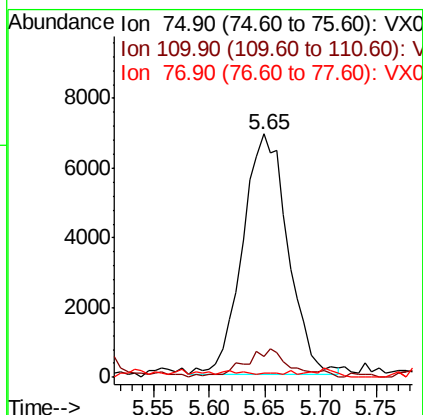
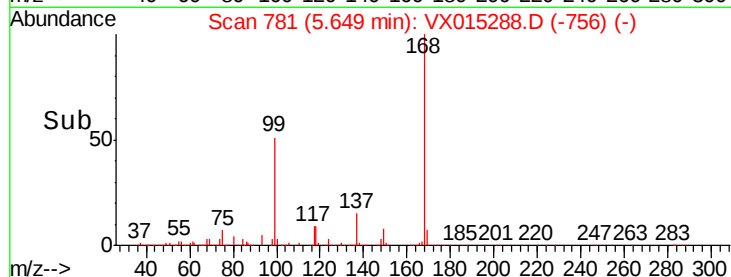
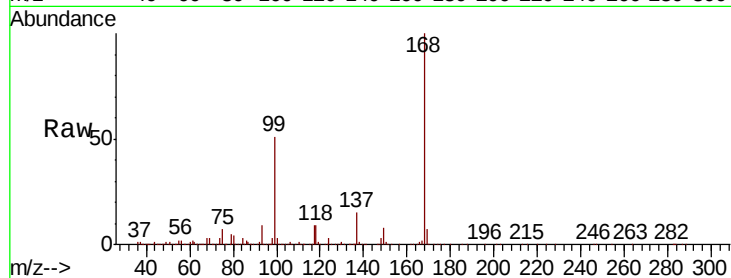




#36
 1,1-Dichloropropene
 Concen: 4.350 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015288.D
 Acq: 16 Mar 2020 12:57

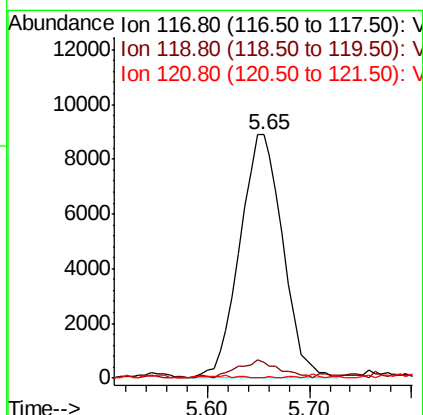
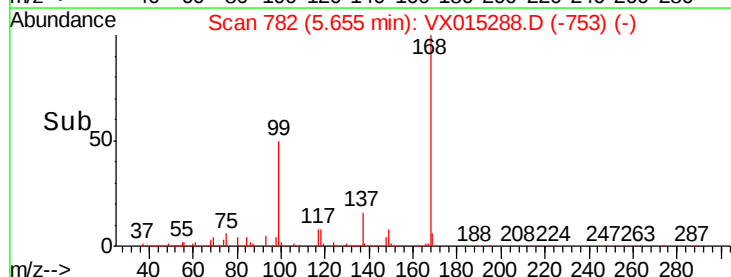
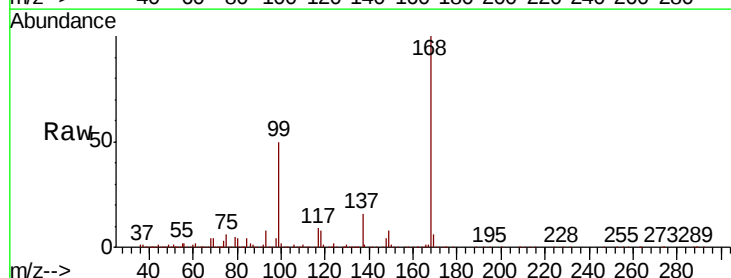
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20200311DL

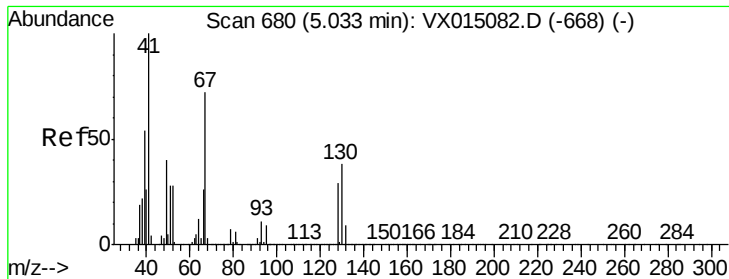
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.1	17.9	53.8#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.124 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015288.D
 Acq: 16 Mar 2020 12:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	76.9	115.3#
121	0.0	24.6	37.0#

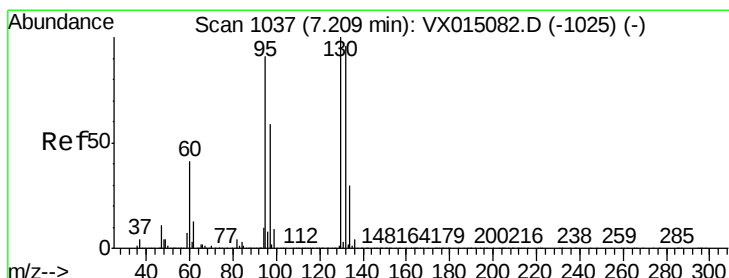
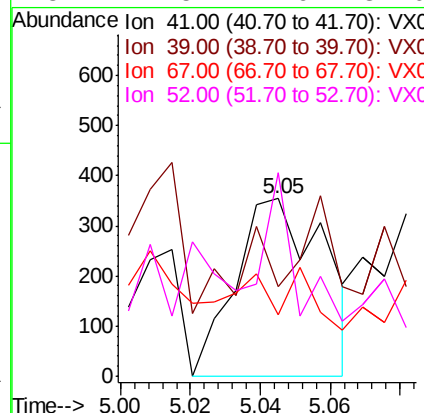
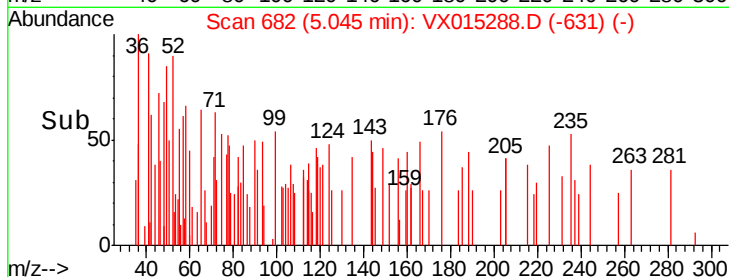
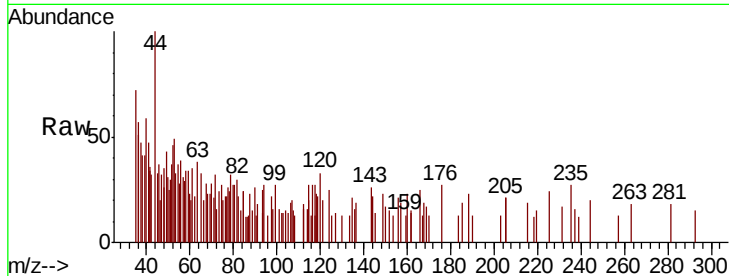




#41
Methacrylonitrile
Concen: 0.249 ug/l
RT: 5.05 min Scan# 682
Delta R.T. 0.01 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

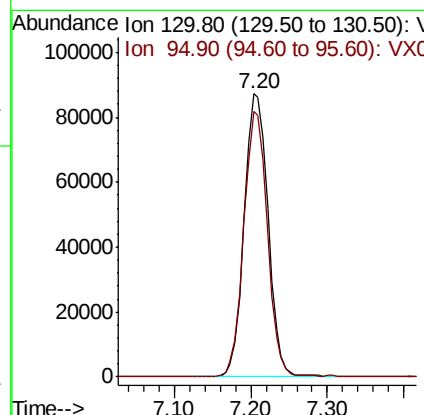
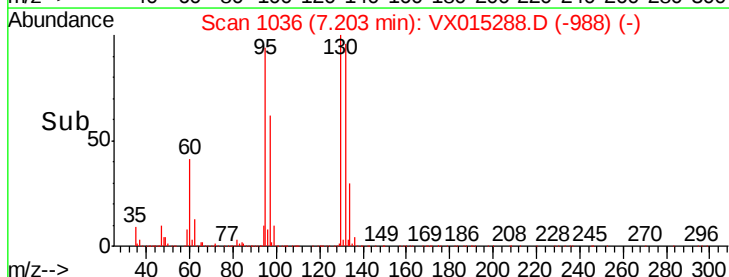
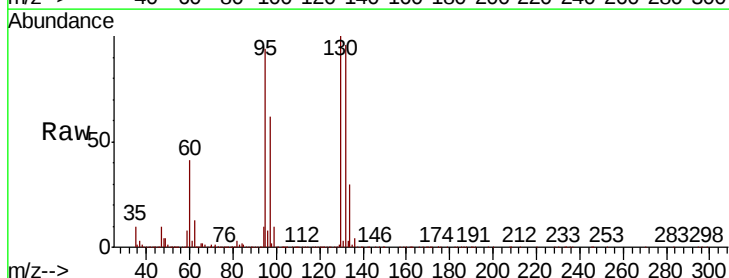
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20200311DL

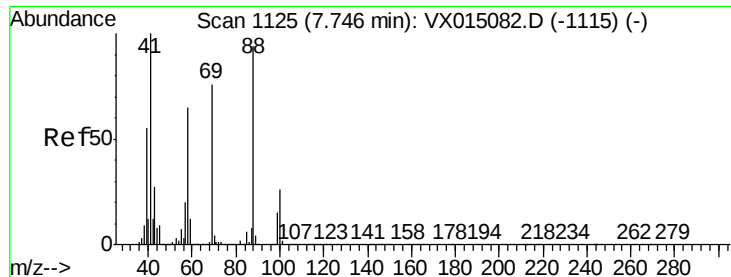
Tot Ion: 41 Resp: 623
Ion Ratio Lower Upper
41 100
39 42.9 43.9 65.9#
67 0.0 57.8 86.8#
52 47.5 22.6 34.0#



#44
Trichloroethene
Concen: 50.986 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. -0.01 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

Tgt Ion:130 Resp: 189448
Ion Ratio Lower Upper
130 100
95 93.8 0.0 181.2

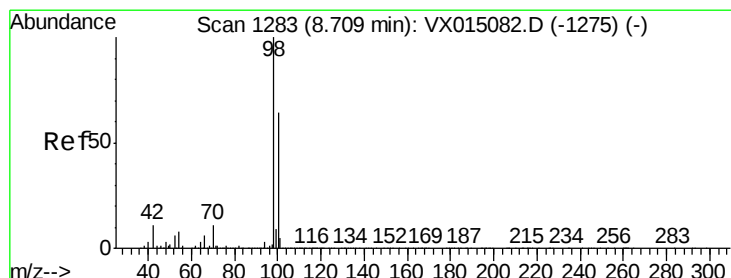
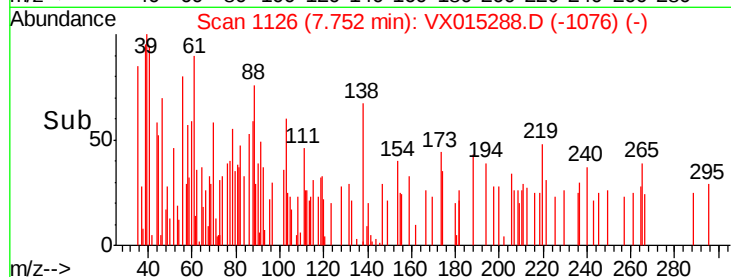
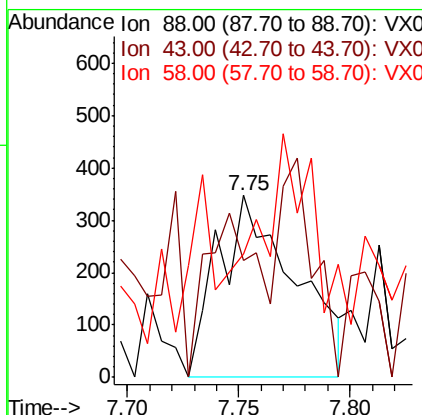
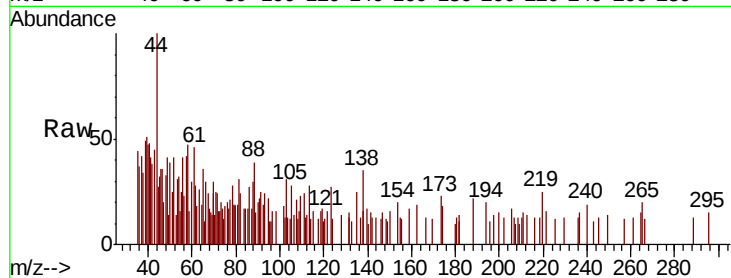




#49
1,4-Dioxane
Concen: 10.365 ug/l
RT: 7.75 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

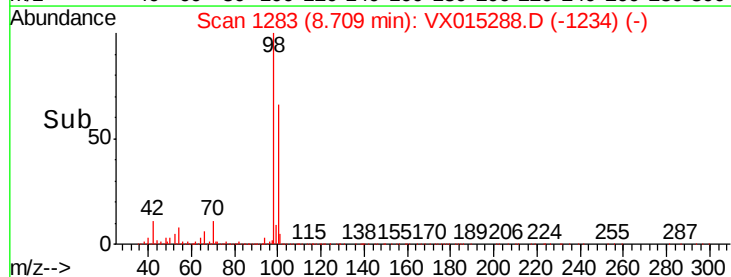
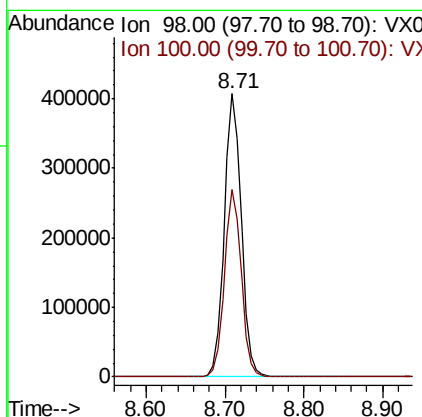
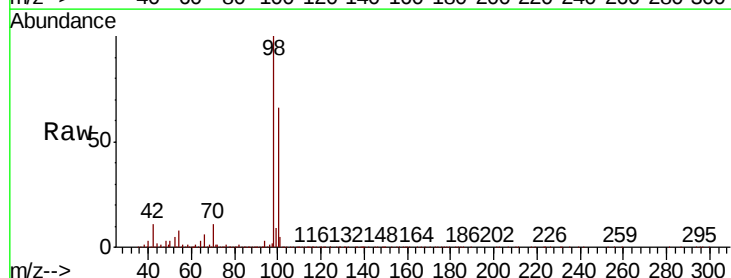
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20200311DL

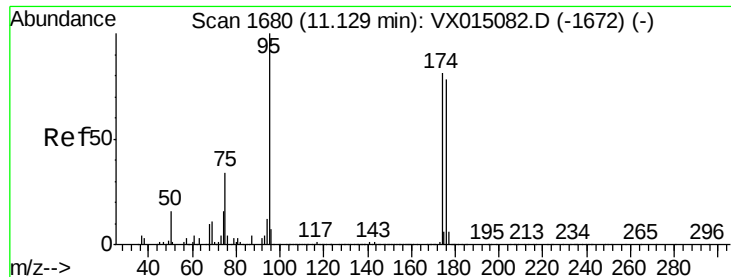
Tot Ion: 88 Resp: 837
Ion Ratio Lower Upper
88 100
43 60.7 27.0 40.4#
58 43.2 55.6 83.4#



#50
Toluene-d8
Concen: 52.207 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015288.D
Acq: 16 Mar 2020 12:57

Tgt Ion: 98 Resp: 609437
Ion Ratio Lower Upper
98 100
100 65.4 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 51.147 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

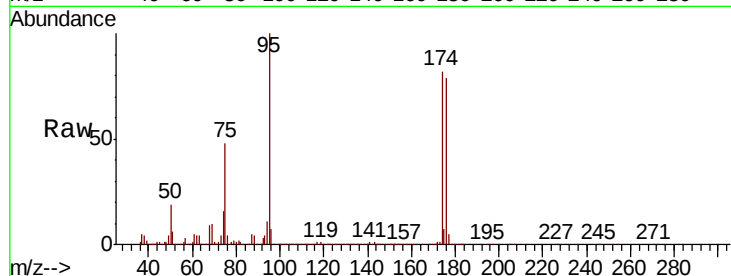
Tot Ion: 95 Resp: 212966

Ion Ratio Lower Upper

95 100

174 89.5 0.0 177.6

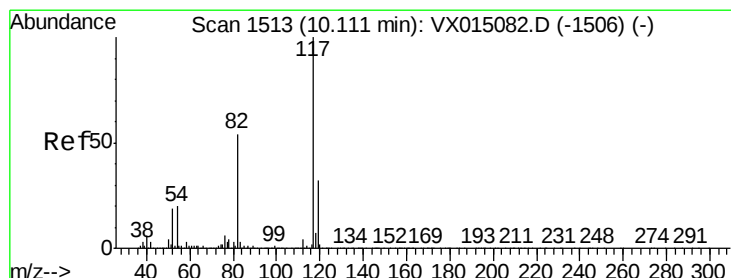
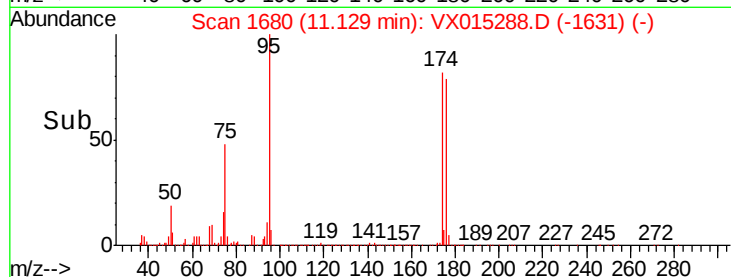
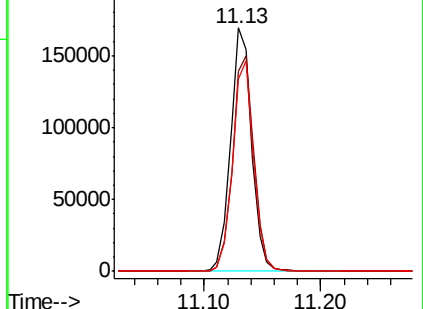
176 86.7 0.0 170.2



Abundance Ion 94.90 (94.60 to 95.60): VX015288.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX015288.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX015288.D (-1672) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

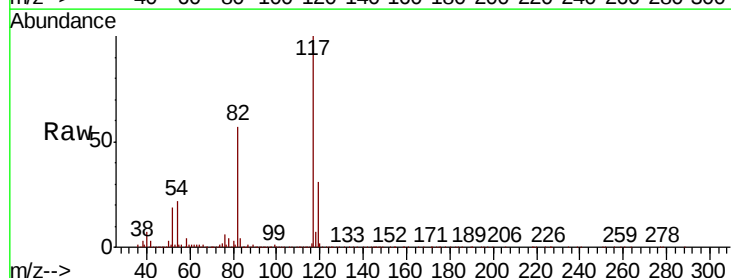
Tgt Ion: 117 Resp: 468574

Ion Ratio Lower Upper

117 100

82 56.4 43.3 64.9

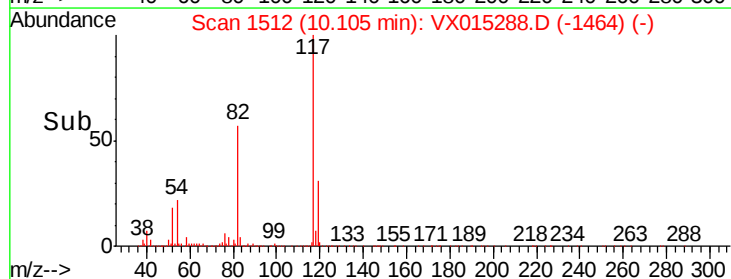
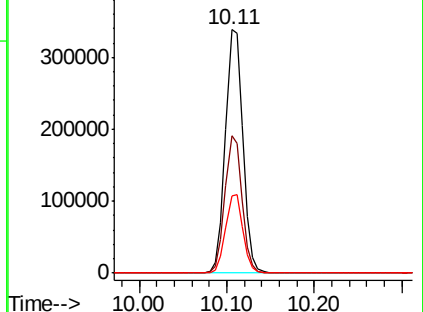
119 31.5 25.8 38.8

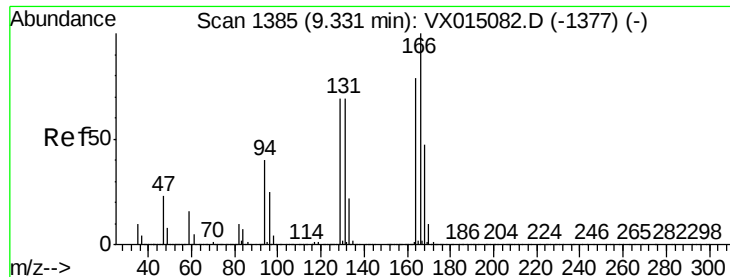


Abundance Ion 116.90 (116.60 to 117.60): VX015288.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX015288.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX015288.D (-1464) (-)





#64

Tetrachloroethene

Concen: 1.857 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

Tot Ion:164 Resp: 7193

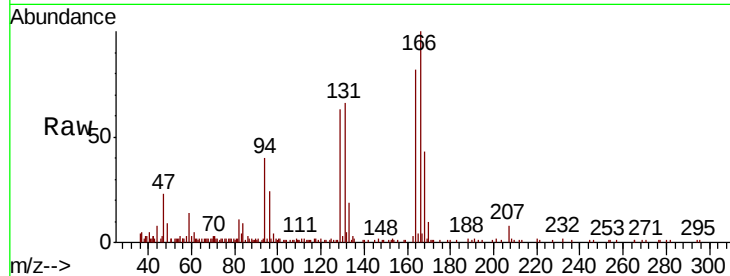
Ion Ratio Lower Upper

164 100

166 122.6 101.1 151.7

129 76.0 69.4 104.0

131 80.2 69.8 104.8



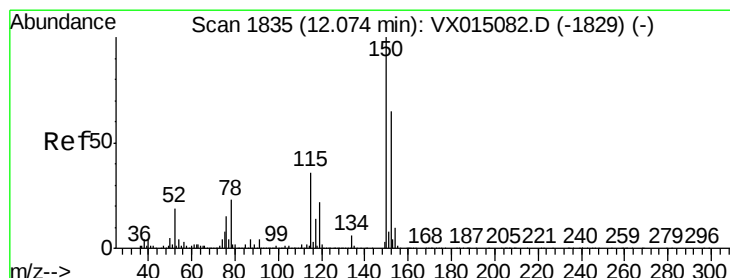
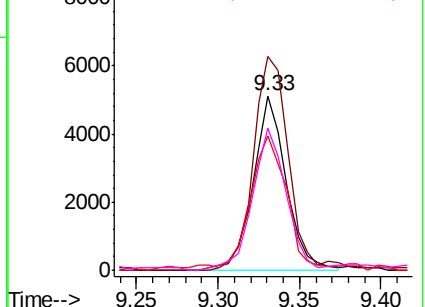
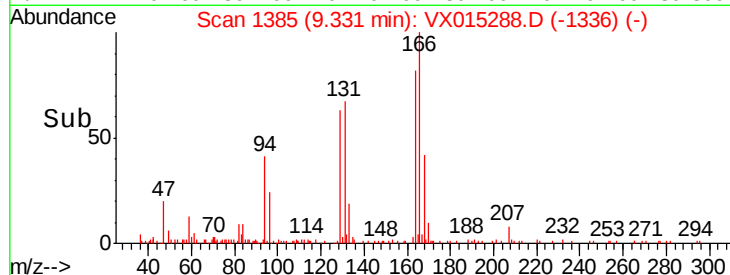
Abundance

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: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

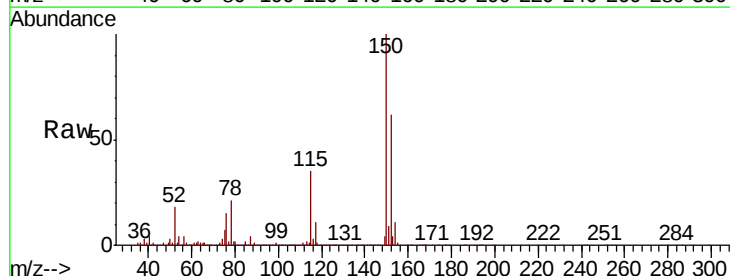
Tgt Ion:152 Resp: 243911

Ion Ratio Lower Upper

152 100

115 55.4 38.2 114.6

150 158.9 0.0 343.8

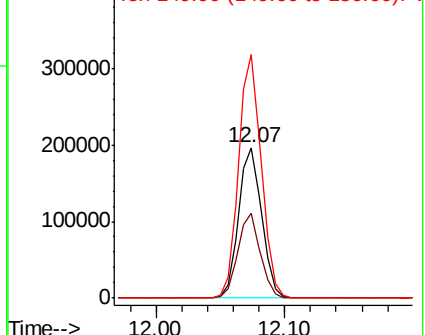
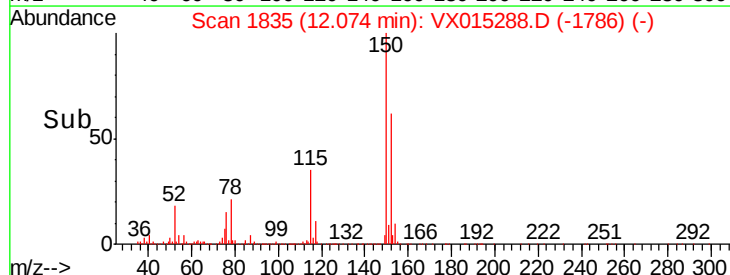


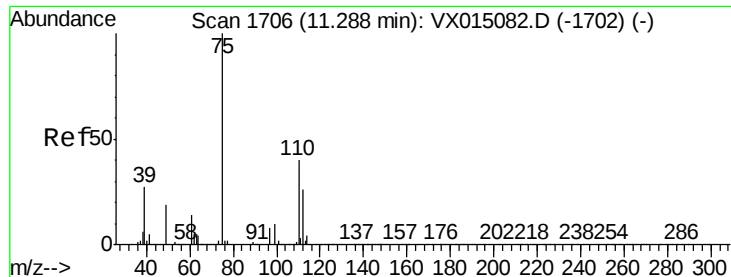
Abundance

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: 20.748 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

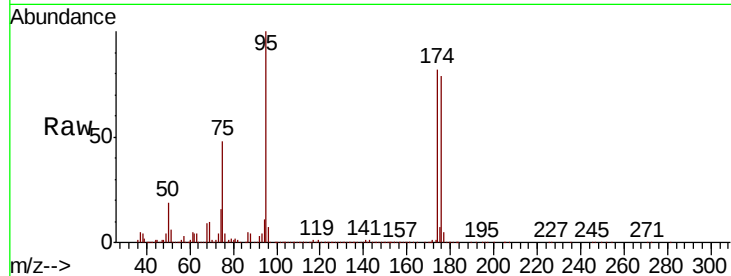
RE125D1-20200311DL

Tot Ion: 75 Resp: 100947

Ion Ratio Lower Upper

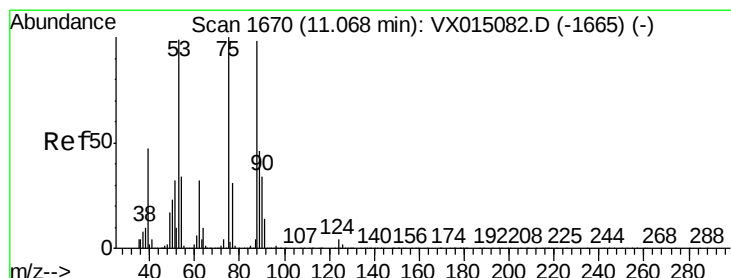
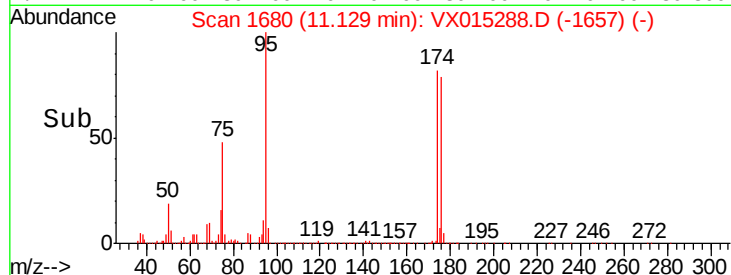
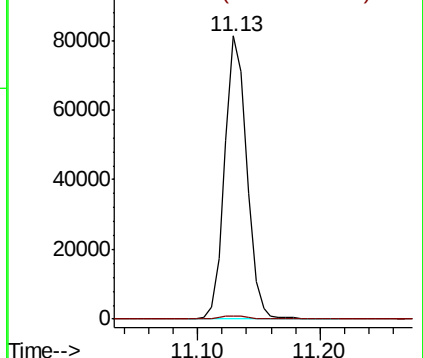
75 100

77 1.8 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 58.884 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

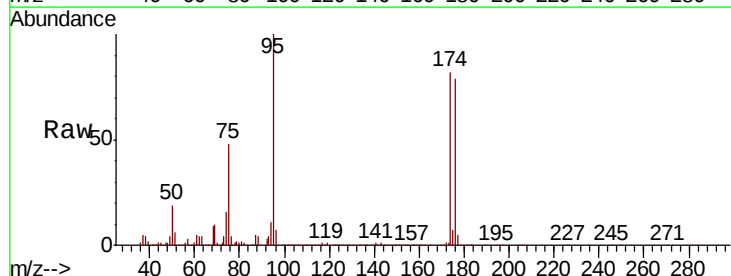
Tgt Ion: 75 Resp: 100947

Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

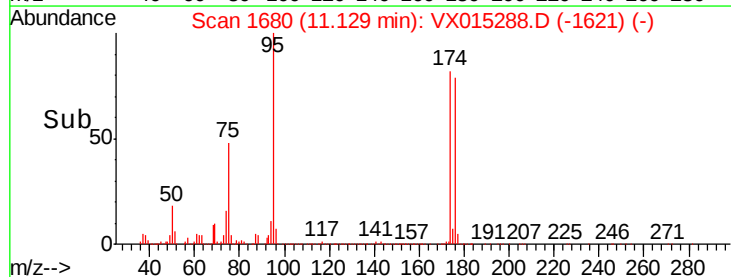
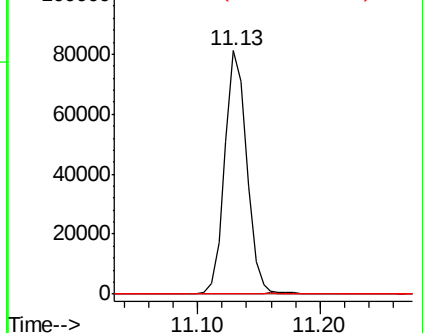
89 0.2 36.2 54.2#

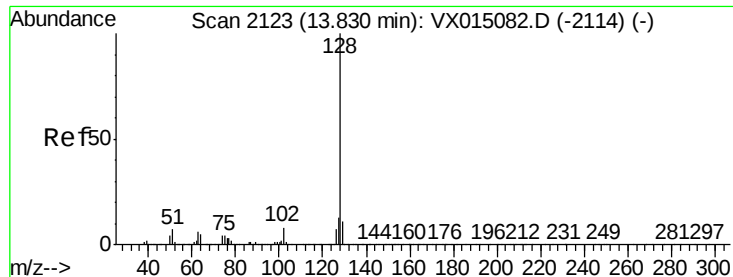


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.504 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015288.D

Acq: 16 Mar 2020 12:57

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20200311DL

Tot Ion:128 Resp: 1393

Ion Ratio Lower Upper

128 100

127 41.2 10.3 15.5#

129 15.7 8.6 13.0#

