

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015305.D
 Acq On : 16 Mar 2020 19:43
 Operator : JC/SP
 Sample : L1945-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20200312

Quant Time: Mar 17 07:44:31 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	302182	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	478557	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	469629	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	236497	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	170550	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
35) Dibromofluoromethane	5.49	113	149716	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	
50) Toluene-d8	8.71	98	591856	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	11.13	95	219385	53.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.12%	

Target Compounds

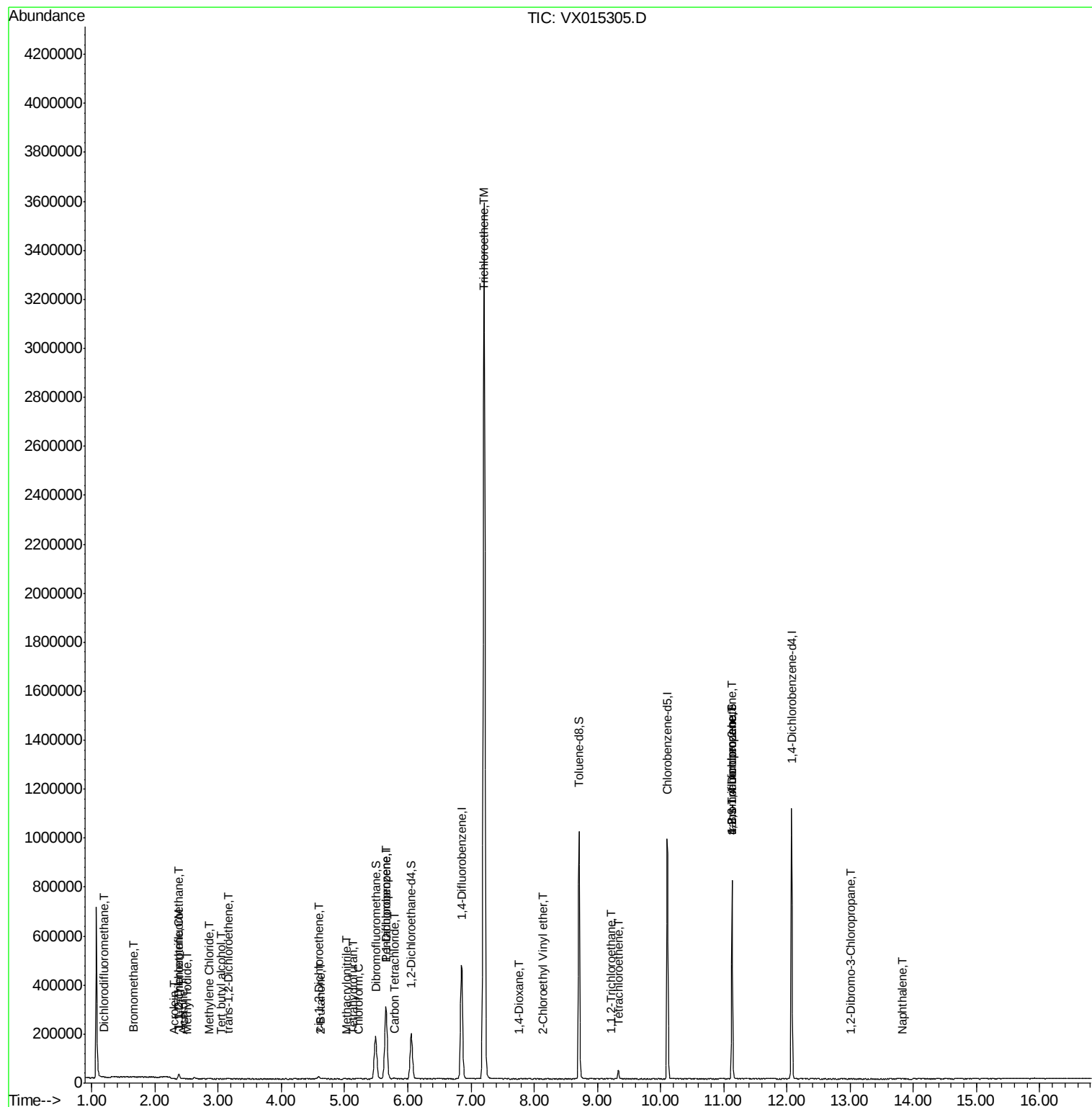
						Qvalue
2) Dichlorodifluoromethane	1.19	85	898	0.339	ug/l #	65
5) Bromomethane	1.66	94	761	0.326	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	8000	2.812	ug/l #	94
10) Methyl Iodide	2.51	142	796	0.248	ug/l #	67
11) Tert butyl alcohol	3.05	59	162	0.260	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	1494	0.509	ug/l #	76
13) Acrolein	2.29	56	433	0.741	ug/l #	61
16) Acetone	2.45	43	2821	1.943	ug/l #	82
20) Methylene Chloride	2.85	84	1187	0.349	ug/l #	51
21) trans-1,2-Dichloroethene	3.16	96	1605	0.512	ug/l #	42
25) 2-Butanone	4.63	43	662	0.311	ug/l #	70
27) cis-1,2-Dichloroethene	4.58	96	5542	1.575	ug/l	90
29) Tetrahydrofuran	5.14	42	426	0.311	ug/l #	32
30) Chloroform	5.22	83	2693	0.488	ug/l	91
36) 1,1-Dichloropropene	5.65	75	20704	4.680	ug/l #	52
38) Carbon Tetrachloride	5.79	117	1666	0.399	ug/l #	76
41) Methacrylonitrile	5.02	41	707	0.287	ug/l #	1
44) Trichloroethene	7.21	130	1419730	388.393	ug/l	99
49) 1,4-Dioxane	7.76	88	1379	17.358	ug/l #	85
55) 1,1,2-Trichloroethane	9.21	97	1250	0.378	ug/l #	80
58) 2-Chloroethyl Vinyl ether	8.14	63	567	0.221	ug/l	90
64) Tetrachloroethene	9.33	164	7596	1.956	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	105240	22.309	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	105240	63.313	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.01	75	231	0.229	ug/l #	31
95) Naphthalene	13.83	128	1049	1.485	ug/l #	69

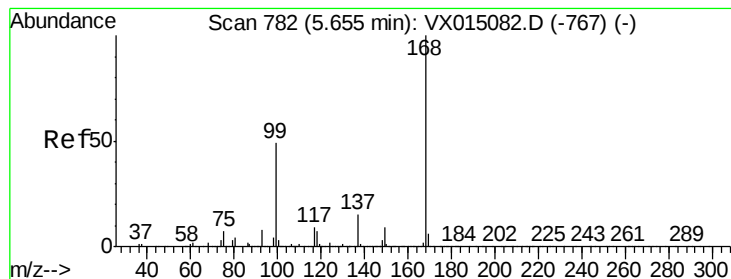
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

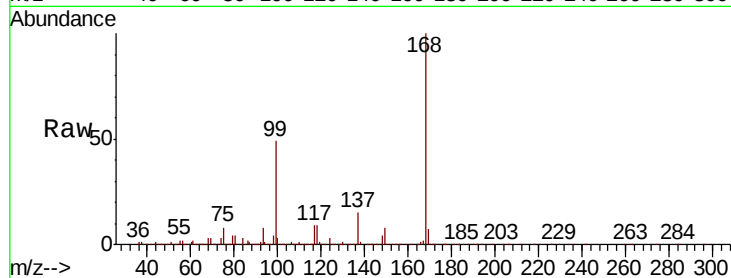
RE122D1-20200312

Tot Ion:168 Resp: 302182

Ion Ratio Lower Upper

168 100

99 48.7 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

120000

100000

80000

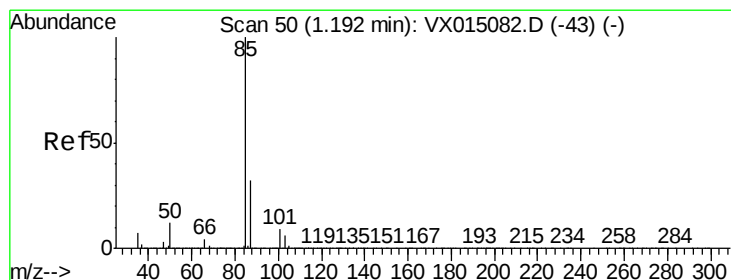
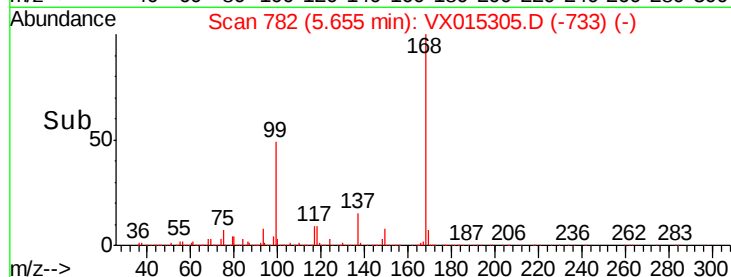
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.339 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015305.D

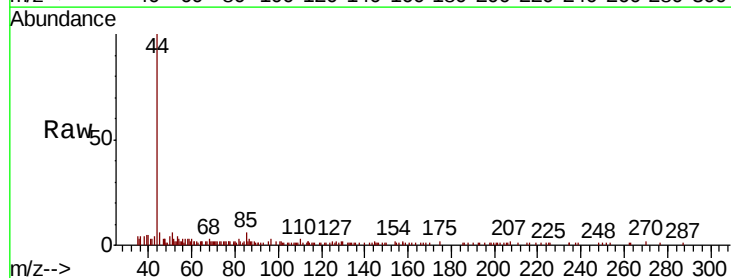
Acq: 16 Mar 2020 19:43

Tgt Ion: 85 Resp: 898

Ion Ratio Lower Upper

85 100

87 52.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

400

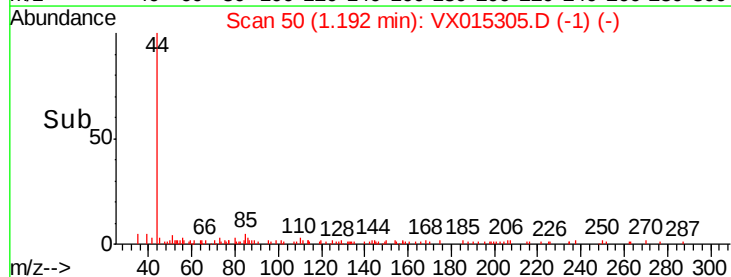
300

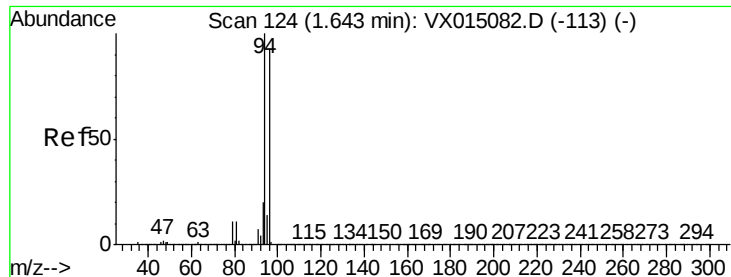
200

100

0

Time-->





#5

Bromomethane

Concen: 0.326 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

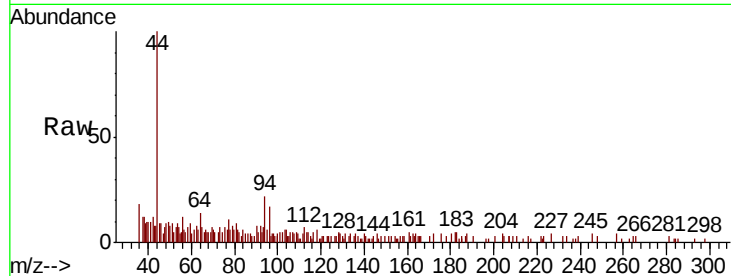
RE122D1-20200312

Tot Ion: 94 Resp: 761

Ion Ratio Lower Upper

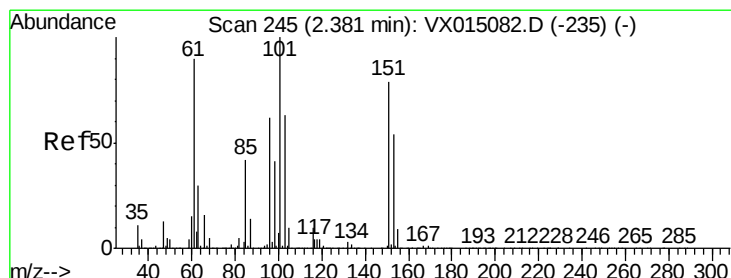
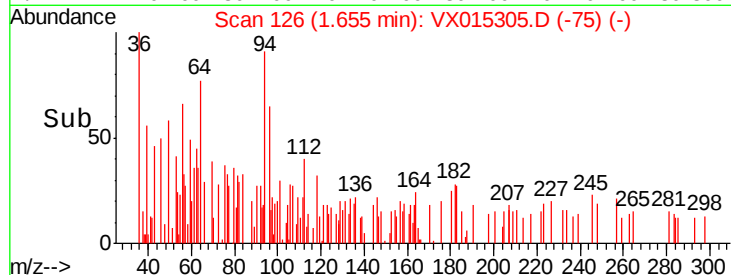
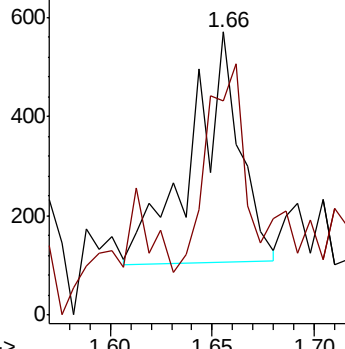
94 100

96 76.2 74.6 111.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.812 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

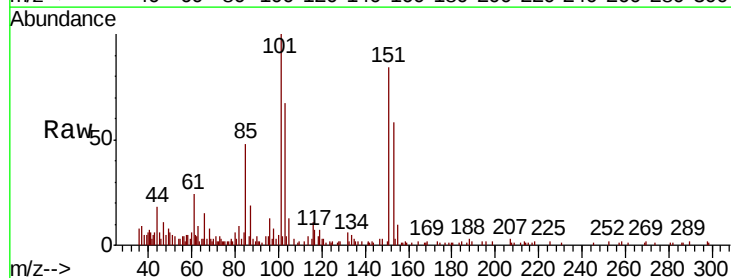
Tgt Ion: 101 Resp: 8000

Ion Ratio Lower Upper

101 100

85 51.6 33.7 50.5#

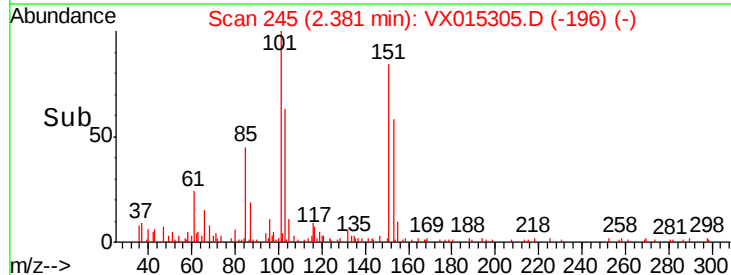
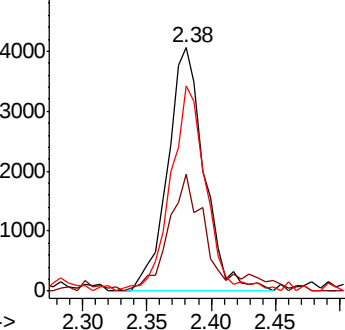
151 81.6 64.0 96.0

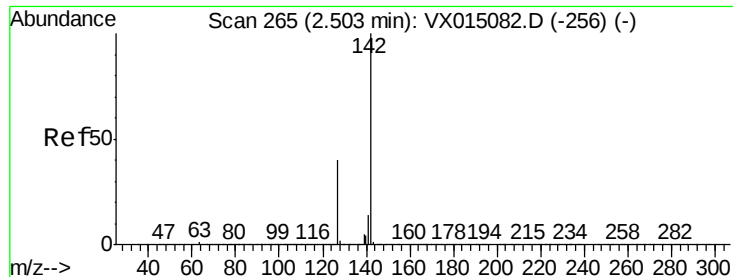


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

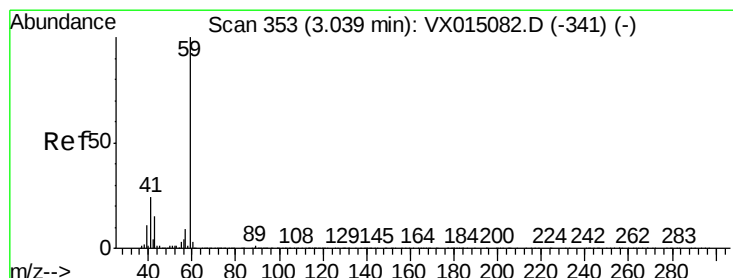
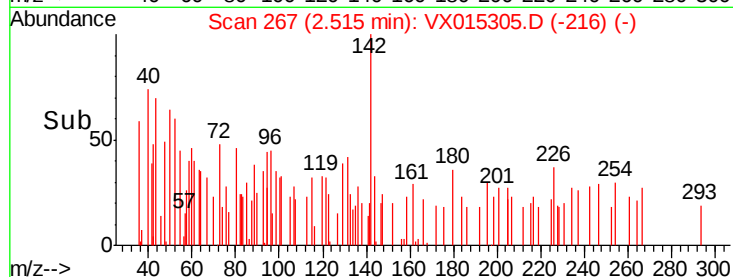
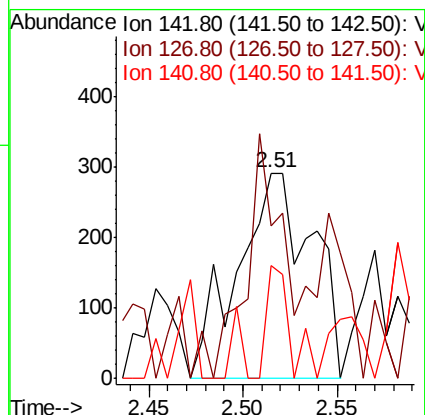
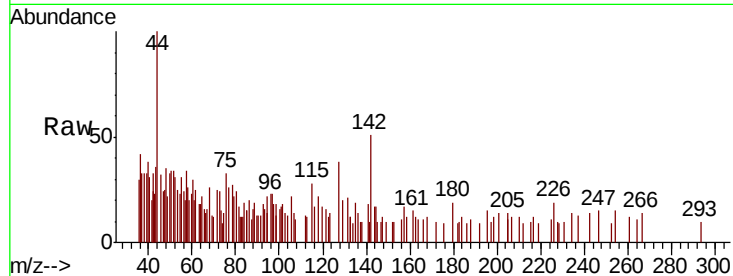




#10
Methvl Iodide
Concen: 0.248 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

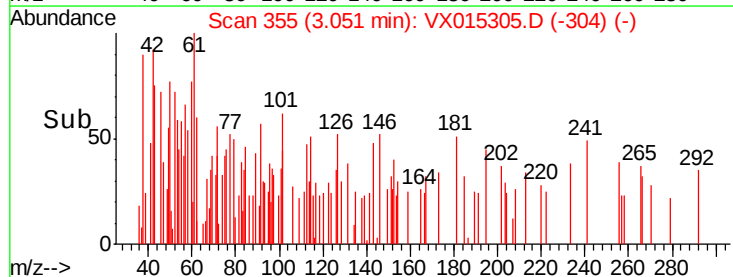
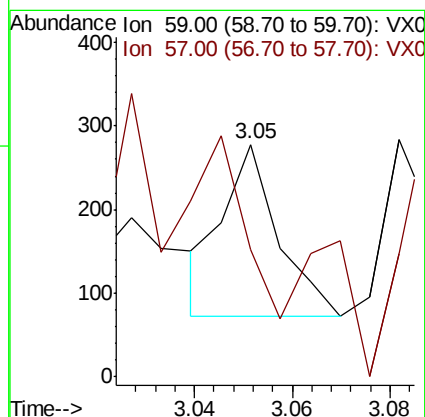
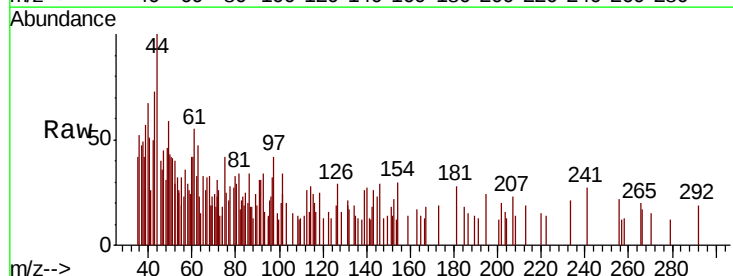
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20200312

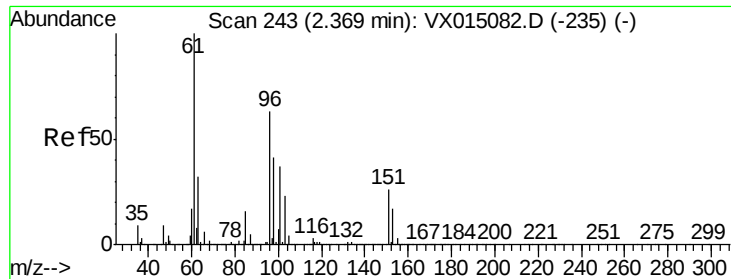
Tot Ion:142 Resp: 796
Ion Ratio Lower Upper
142 100
127 65.8 31.7 47.5#
141 17.2 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.260 ug/l
RT: 3.05 min Scan# 355
Delta R.T. 0.01 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

Tgt Ion: 59 Resp: 162
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.509 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20200312

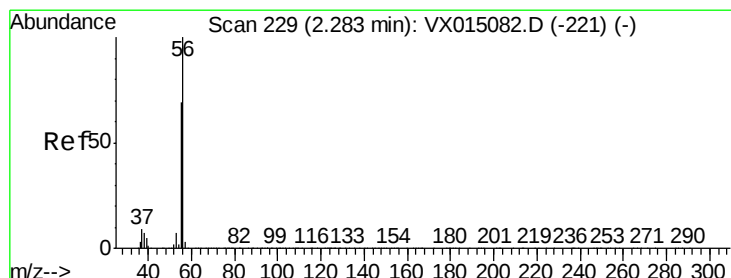
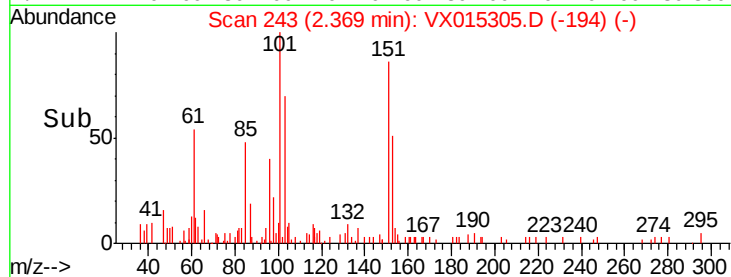
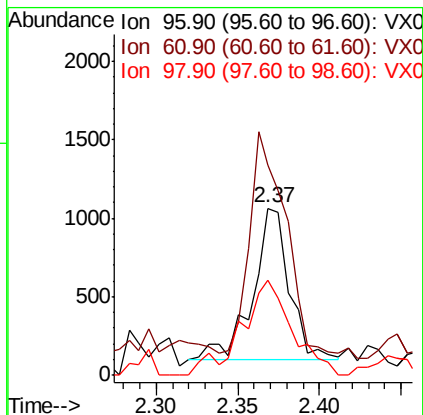
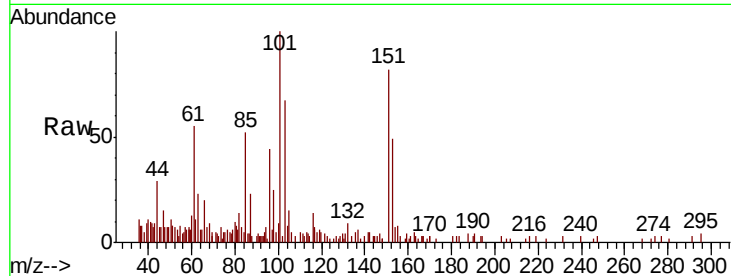
Tot Ion: 96 Resp: 1494

Ion Ratio Lower Upper

96 100

61 118.0 126.2 189.4#

98 56.7 51.4 77.0



#13

Acrolein

Concen: 0.741 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX015305.D

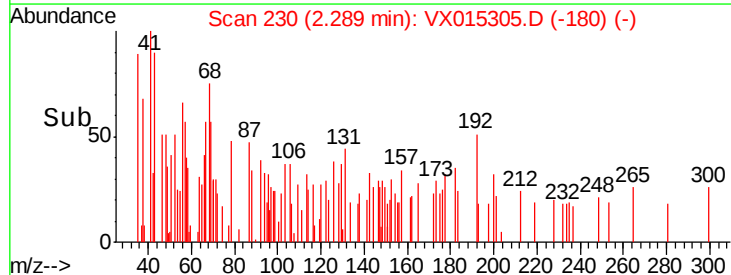
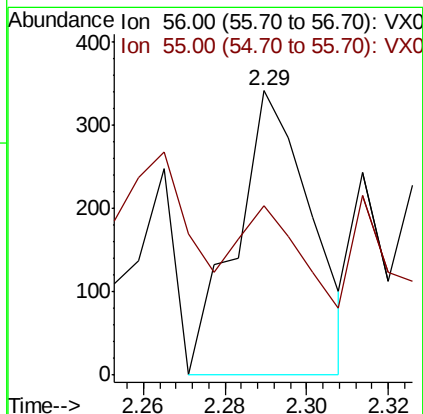
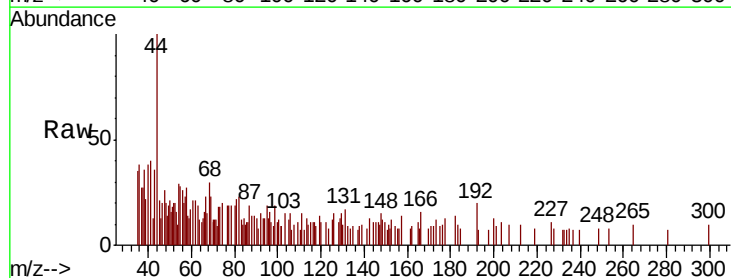
Acq: 16 Mar 2020 19:43

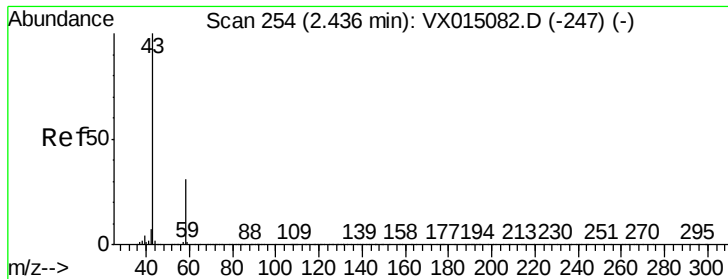
Tgt Ion: 56 Resp: 433

Ion Ratio Lower Upper

56 100

55 37.2 55.4 83.0#





#16

Acetone

Concen: 1.943 ug/l

RT: 2.45 min Scan# 256

Delta R.T. 0.01 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

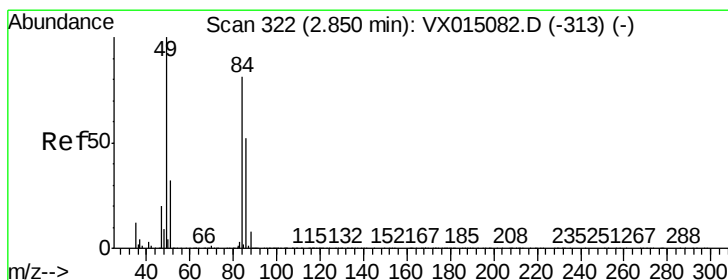
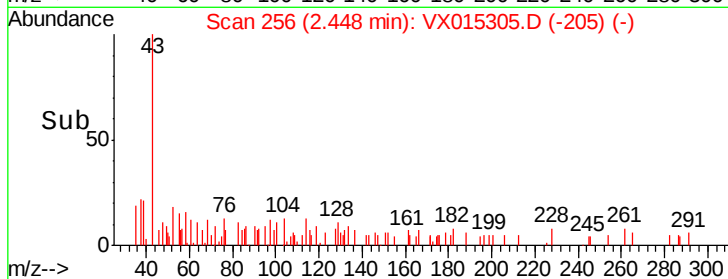
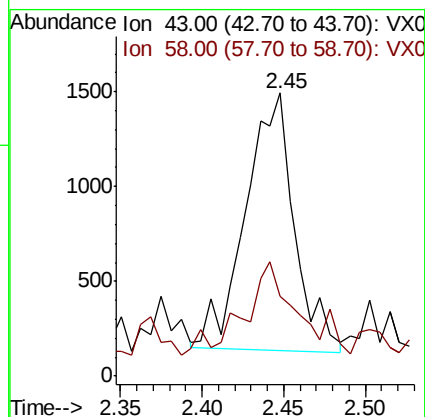
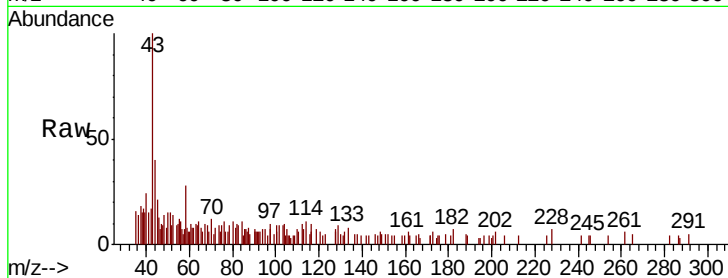
RE122D1-20200312

Tot Ion: 43 Resp: 2821

Ion Ratio Lower Upper

43 100

58 21.0 24.8 37.2#



#20

Methylene Chloride

Concen: 0.349 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Tgt Ion: 84 Resp: 1187

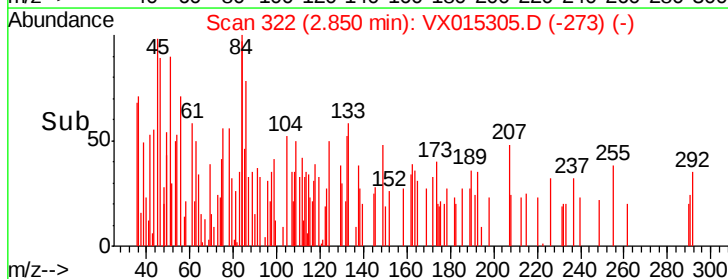
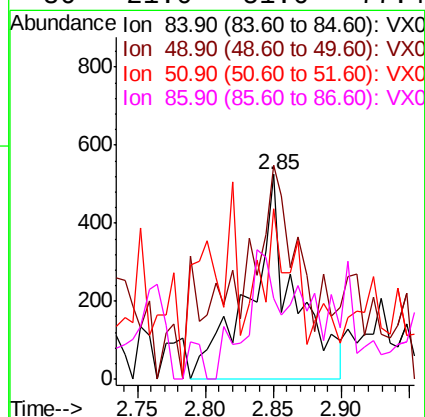
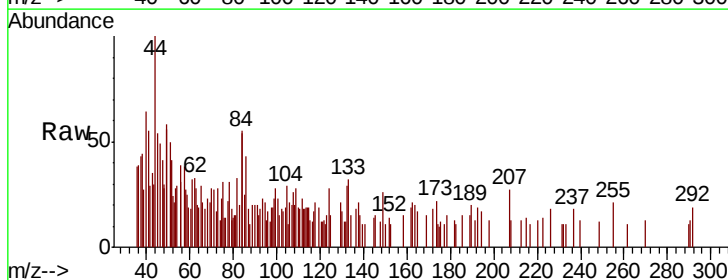
Ion Ratio Lower Upper

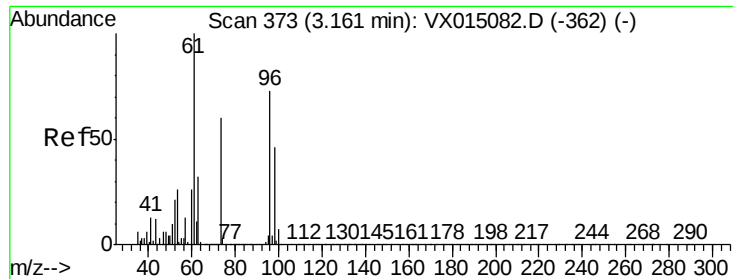
84 100

49 69.3 99.4 149.2#

51 65.7 31.5 47.3#

86 21.0 51.6 77.4#





#21

trans-1,2-Dichloroethene

Concen: 0.512 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20200312

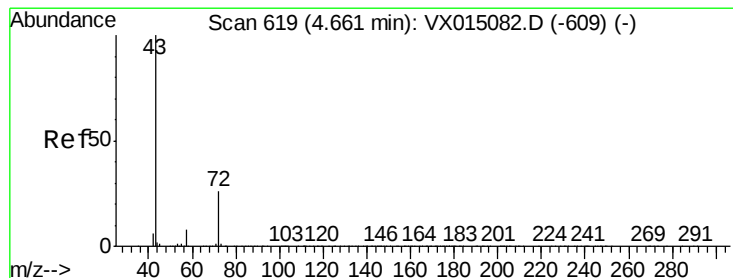
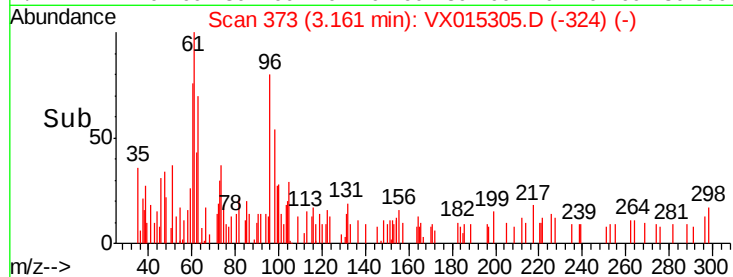
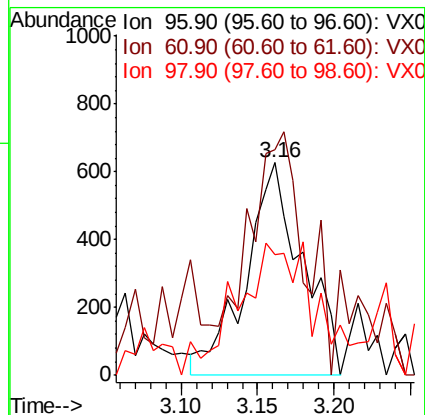
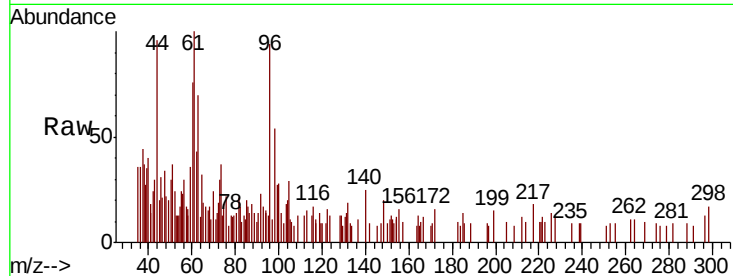
Tot Ion: 96 Resp: 1605

Ion Ratio Lower Upper

96 100

61 56.6 109.9 164.9#

98 33.0 50.2 75.2#



#25

2-Butanone

Concen: 0.311 ug/l

RT: 4.63 min Scan# 614

Delta R.T. -0.03 min

Lab File: VX015305.D

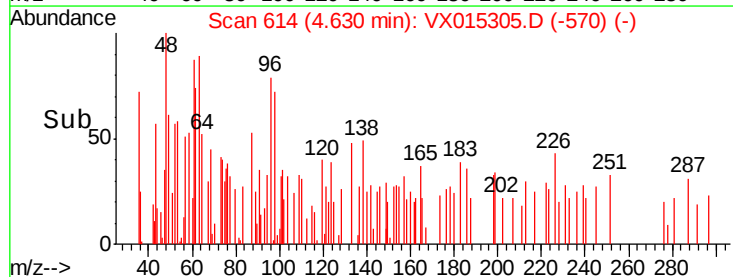
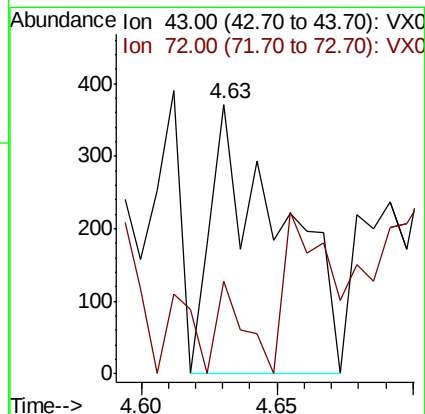
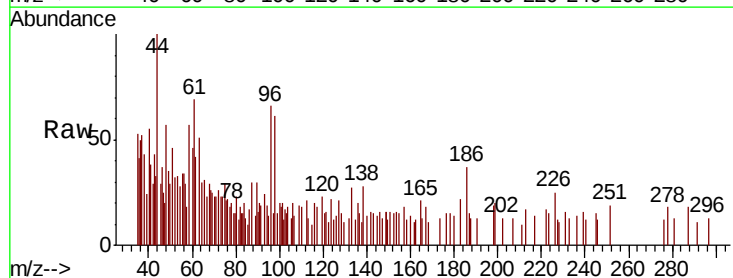
Acq: 16 Mar 2020 19:43

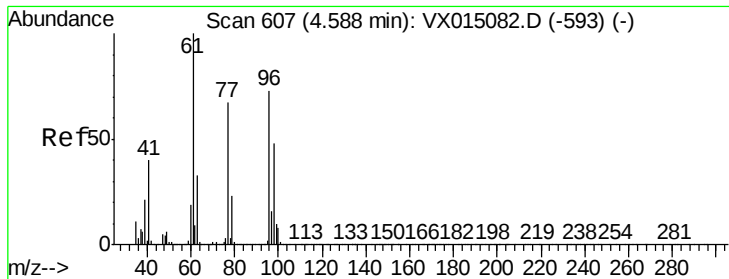
Tgt Ion: 43 Resp: 662

Ion Ratio Lower Upper

43 100

72 10.5 20.6 30.8#



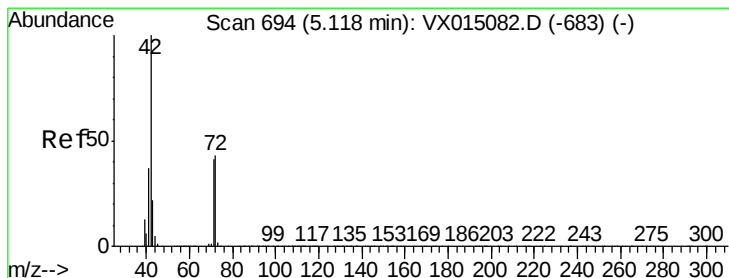
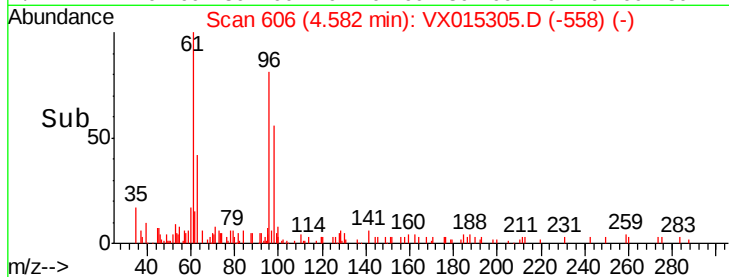
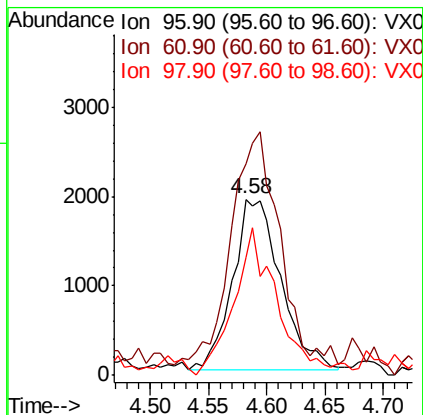
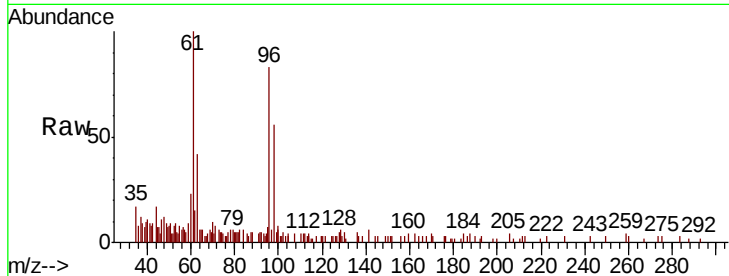


#27

cis-1,2-Dichloroethene
 Concen: 1.575 ug/l
 RT: 4.58 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20200312

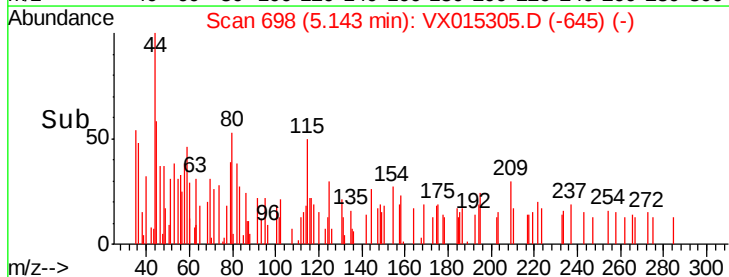
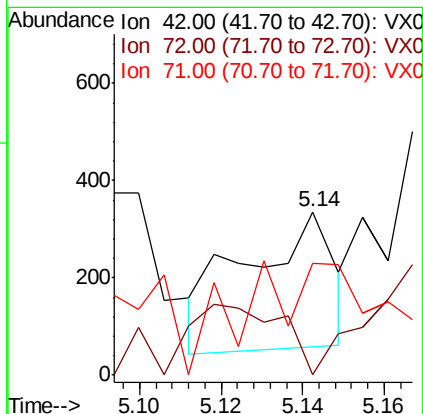
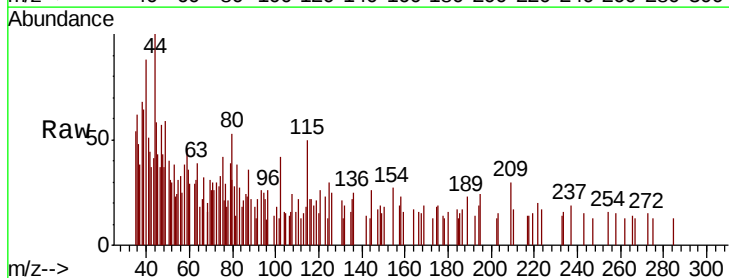
Tot Ion	Ratio	Lower	Upper
96	100		
61	133.4	0.0	286.8
98	76.2	0.0	128.4

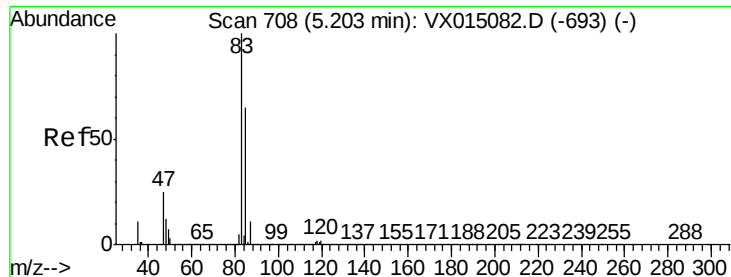


#29

Tetrahydrofuran
 Concen: 0.311 ug/l
 RT: 5.14 min Scan# 698
 Delta R.T. 0.02 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.4	54.6#
71	0.0	33.3	49.9#





#30

Chloroform

Concen: 0.488 ug/l

RT: 5.22 min Scan# 710

Delta R.T. 0.01 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

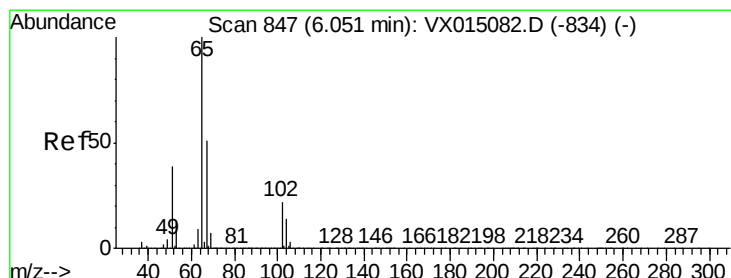
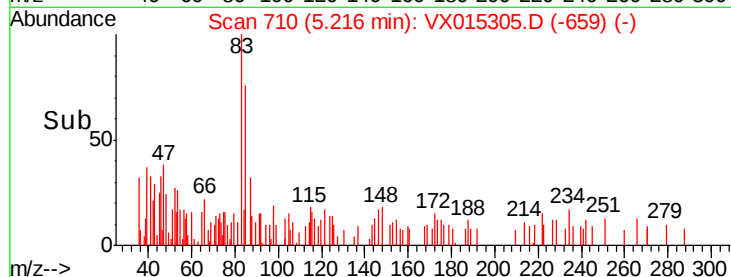
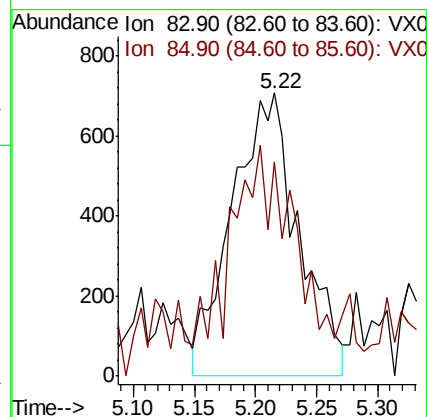
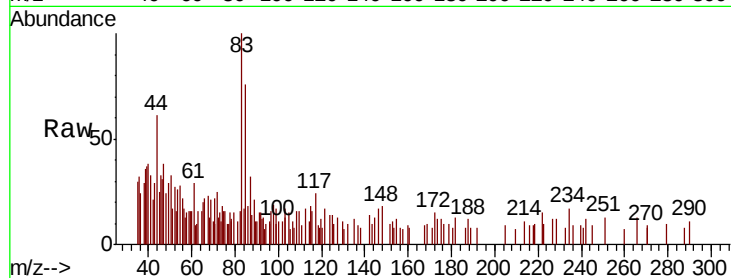
RE122D1-20200312

Tot Ion: 83 Resp: 2693

Ion Ratio Lower Upper

83 100

85 71.7 52.0 78.0



#33

1,2-Dichloroethane-d4

Concen: 47.573 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015305.D

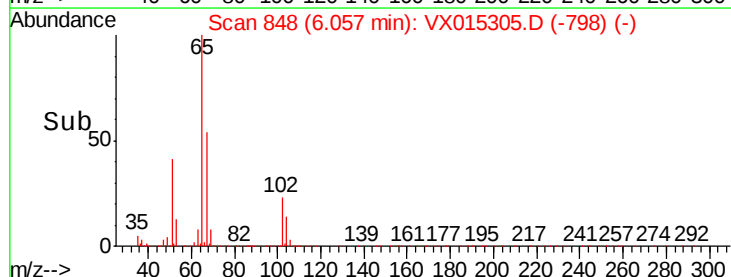
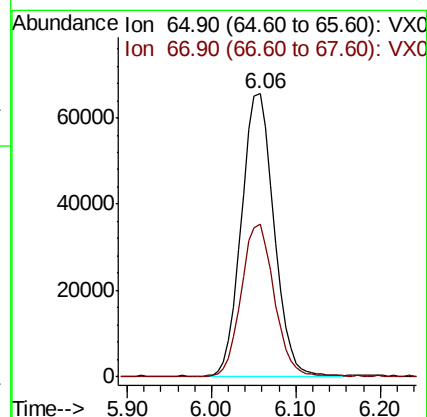
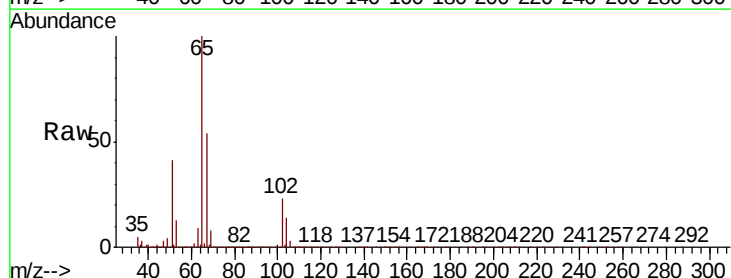
Acq: 16 Mar 2020 19:43

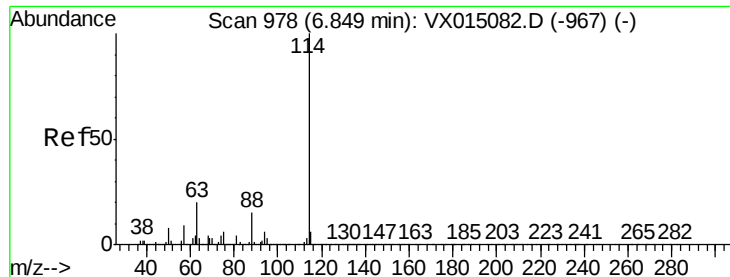
Tgt Ion: 65 Resp: 170550

Ion Ratio Lower Upper

65 100

67 54.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20200312

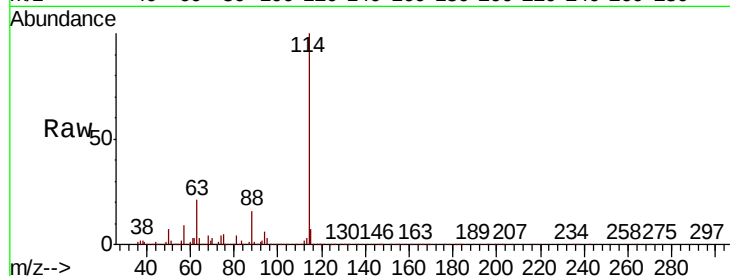
Tot Ion:114 Resp: 478557

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.0

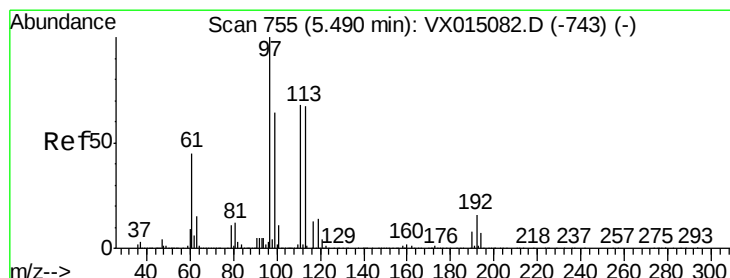
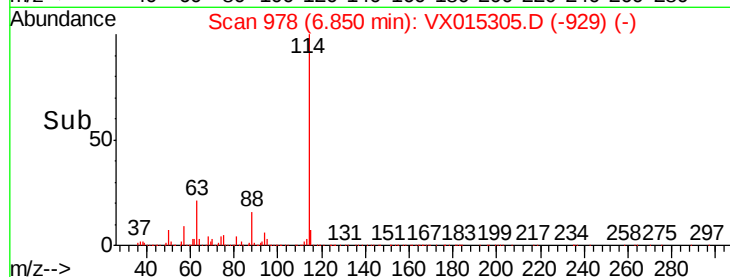
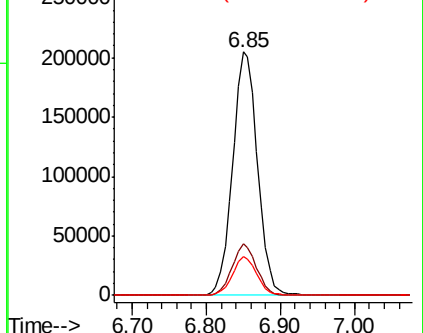
88 16.1 0.0 30.6



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: 49.590 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

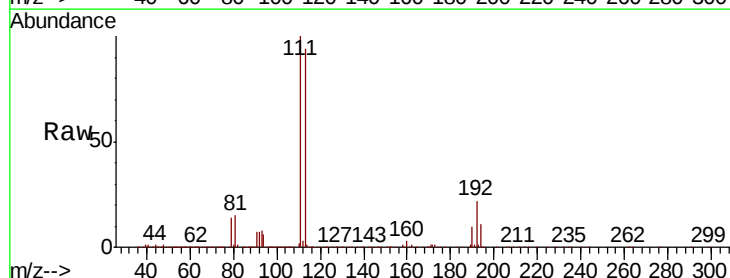
Tgt Ion:113 Resp: 149716

Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

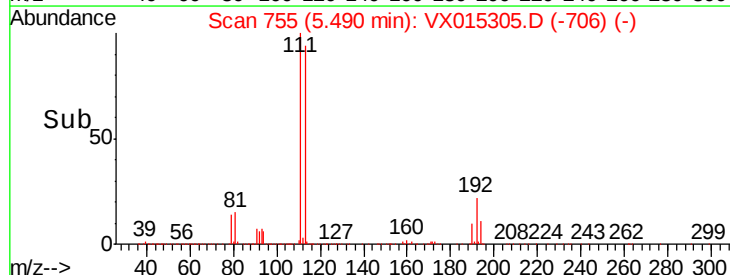
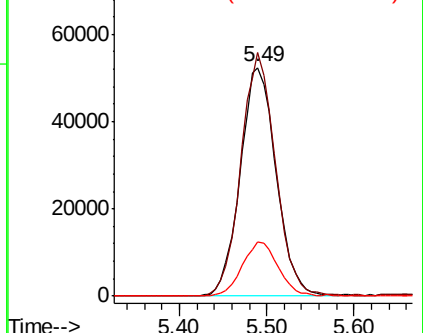
192 23.2 18.6 28.0

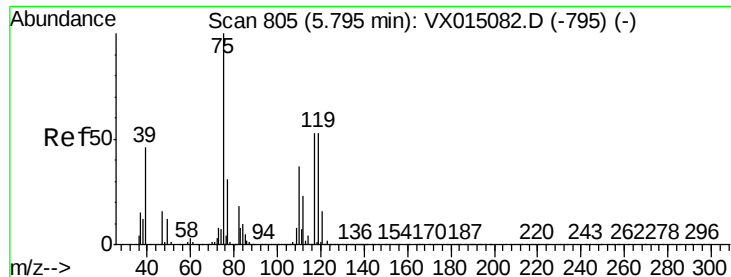


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.680 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20200312

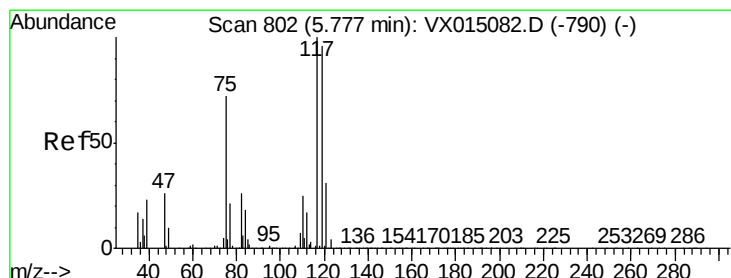
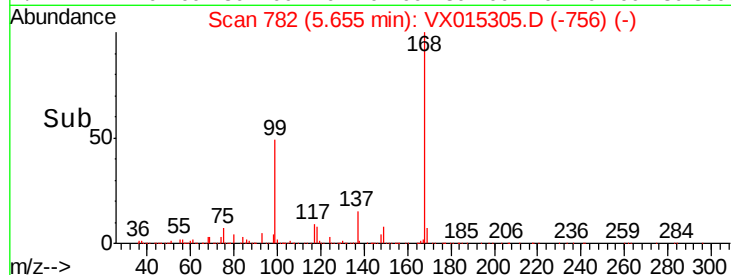
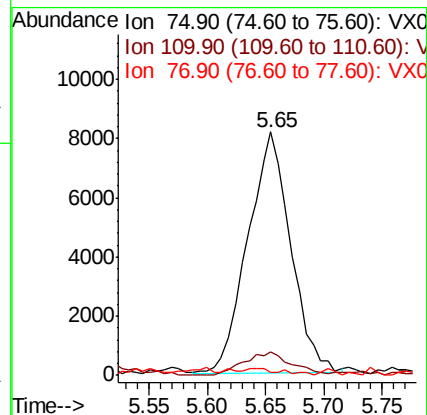
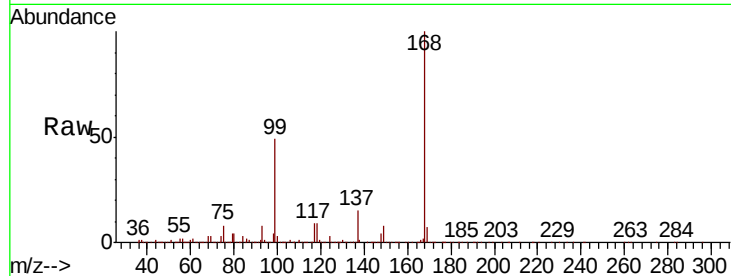
Tot Ion: 75 Resp: 20704

Ion Ratio Lower Upper

75 100

110 10.9 17.9 53.8#

77 0.8 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 0.399 ug/l

RT: 5.79 min Scan# 804

Delta R.T. 0.01 min

Lab File: VX015305.D

Acq: 16 Mar 2020 19:43

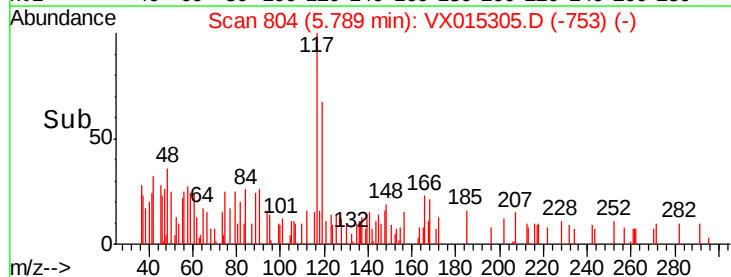
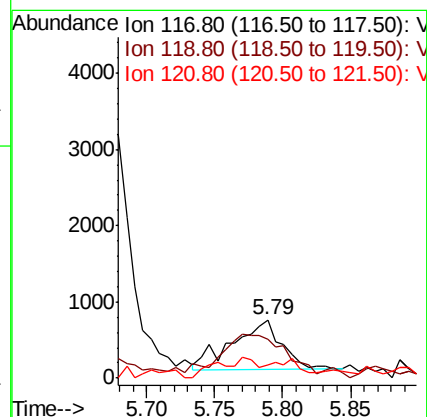
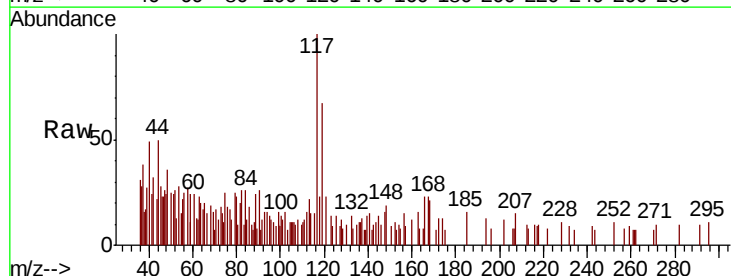
Tgt Ion: 117 Resp: 1666

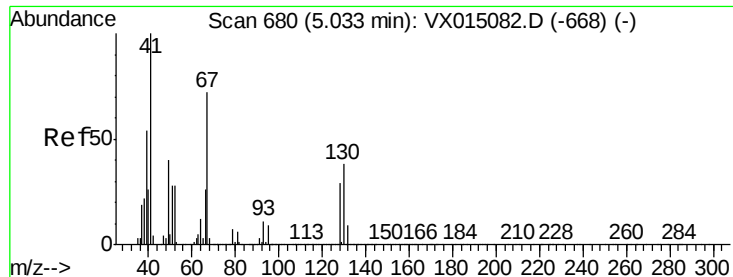
Ion Ratio Lower Upper

117 100

119 67.7 76.9 115.3#

121 27.1 24.6 37.0

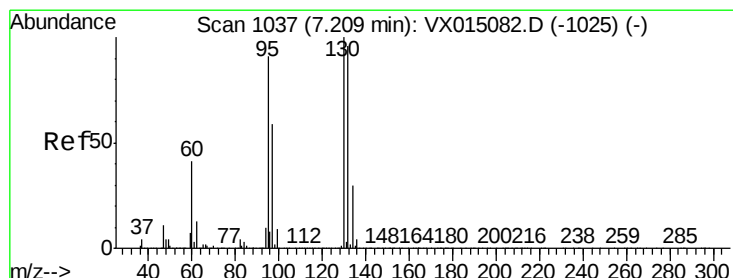
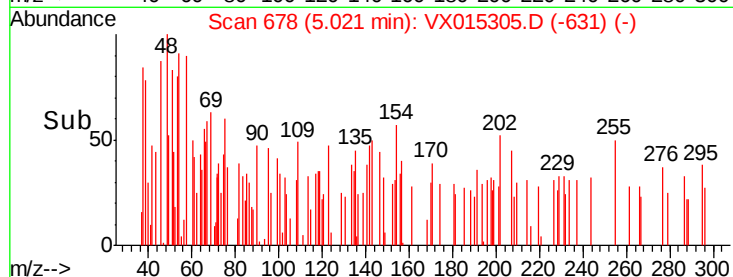
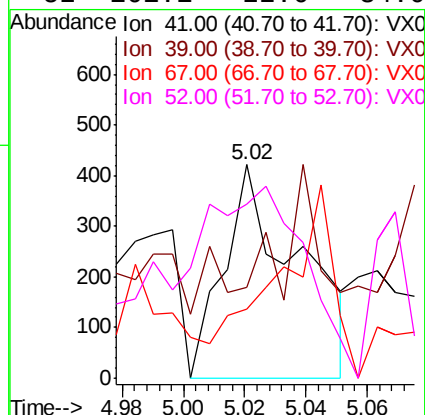
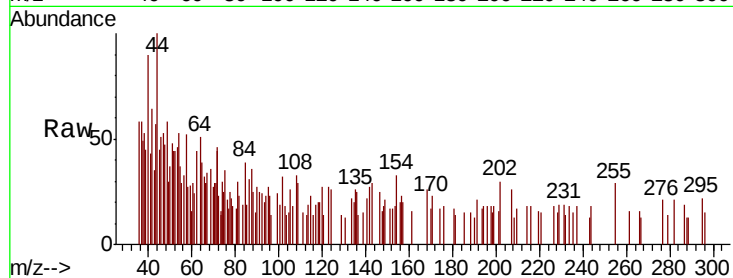




#41
Methacrylonitrile
Concen: 0.287 ug/l
RT: 5.02 min Scan# 678
Delta R.T. -0.01 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

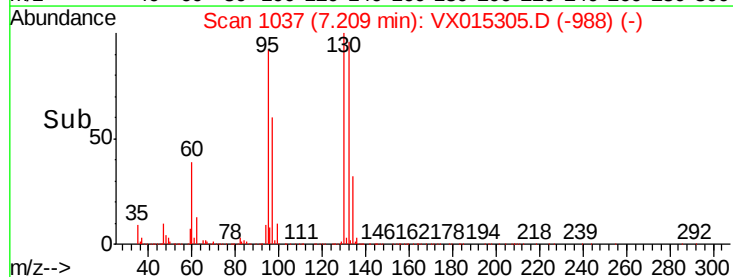
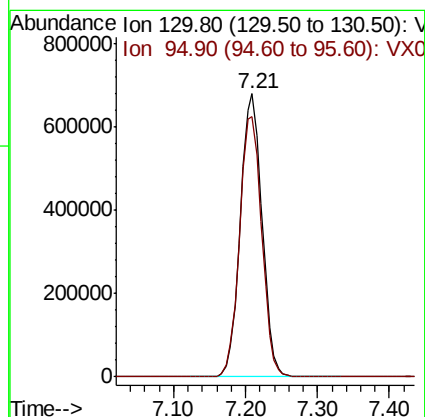
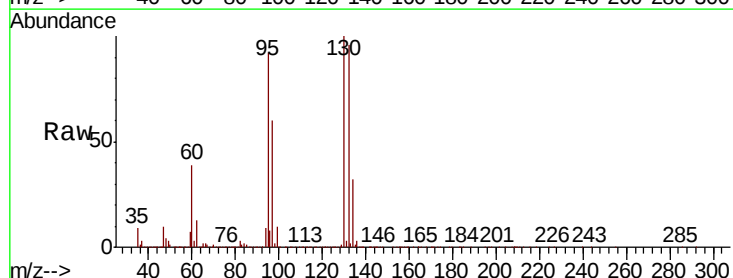
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20200312

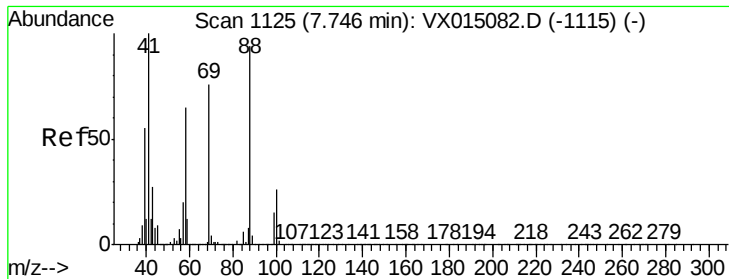
Tot Ion: 41 Resp: 707
Ion Ratio Lower Upper
41 100
39 0.0 43.9 65.9#
67 0.0 57.8 86.8#
52 161.1 22.6 34.0#



#44
Trichloroethene
Concen: 388.393 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

Tgt Ion: 130 Resp: 1419730
Ion Ratio Lower Upper
130 100
95 91.9 0.0 181.2

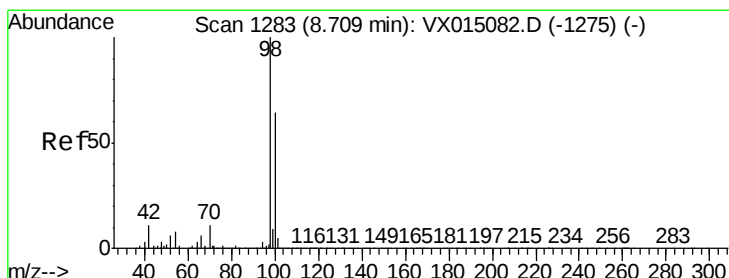
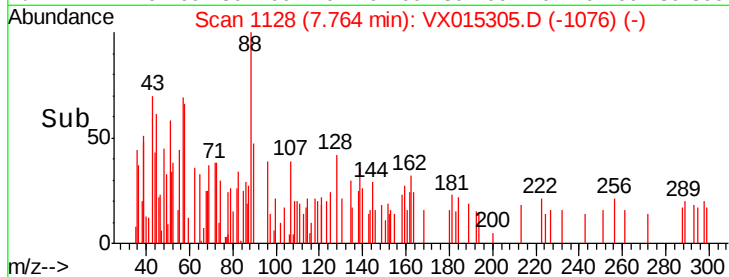
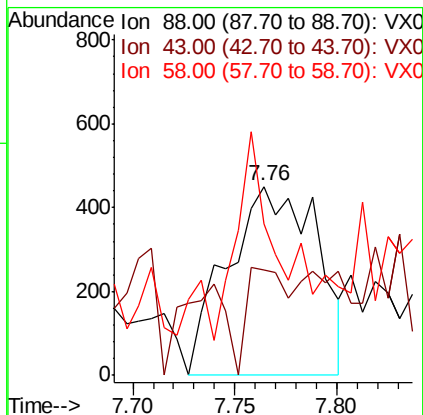
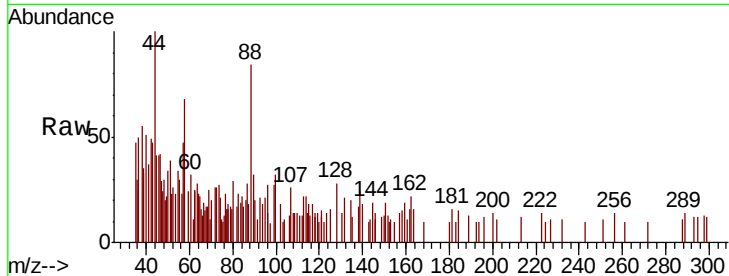




#49
1,4-Dioxane
Concen: 17.358 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

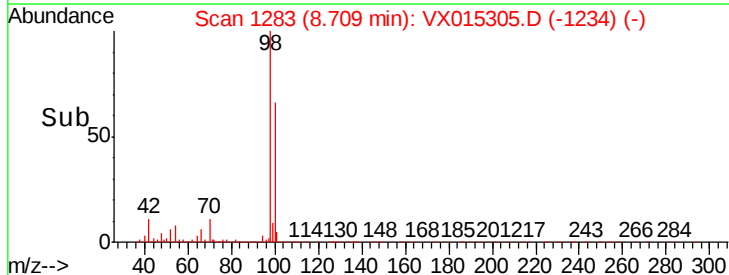
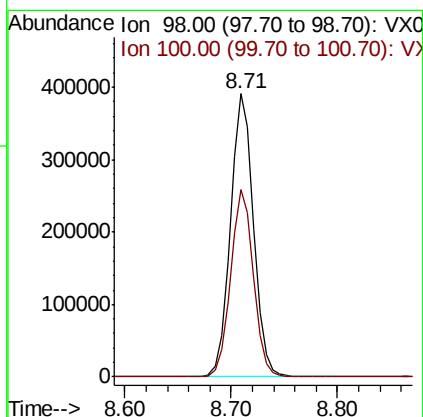
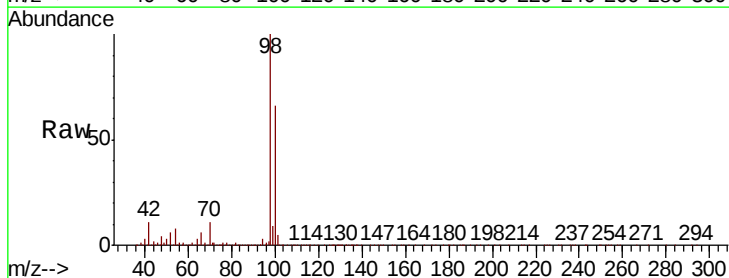
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20200312

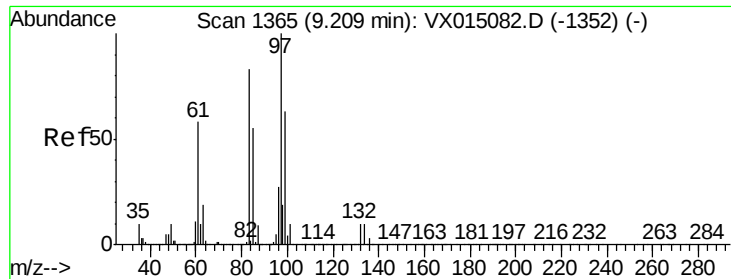
Tot Ion: 88 Resp: 1379
Ion Ratio Lower Upper
88 100
43 24.9 27.0 40.4#
58 57.3 55.6 83.4



#50
Toluene-d8
Concen: 51.537 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

Tgt Ion: 98 Resp: 591856
Ion Ratio Lower Upper
98 100
100 65.4 52.4 78.6

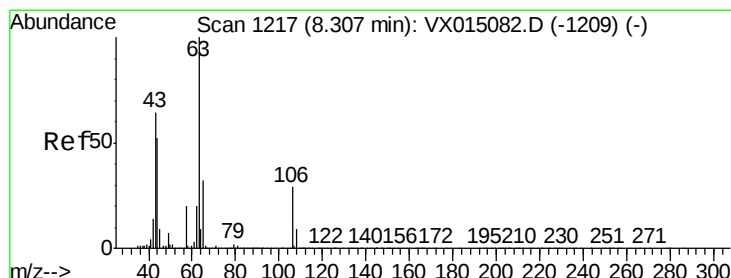
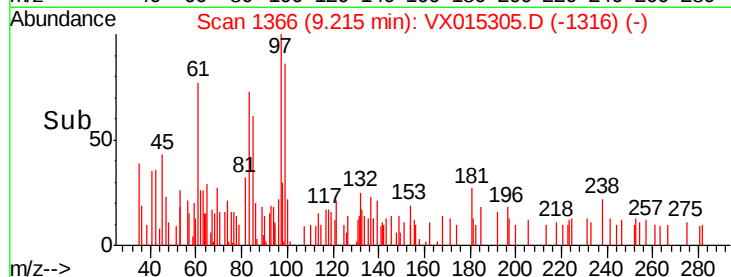
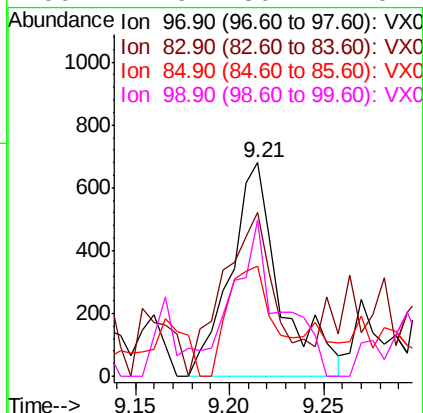
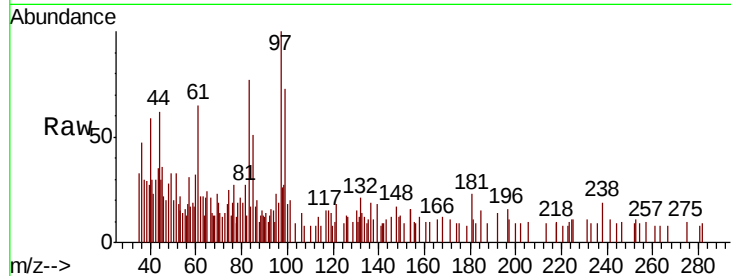




#55
 1,1,2-Trichloroethane
 Concen: 0.378 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

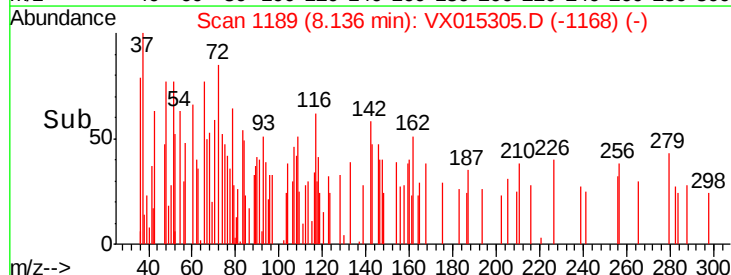
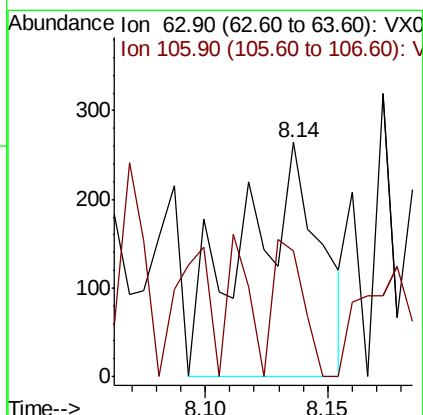
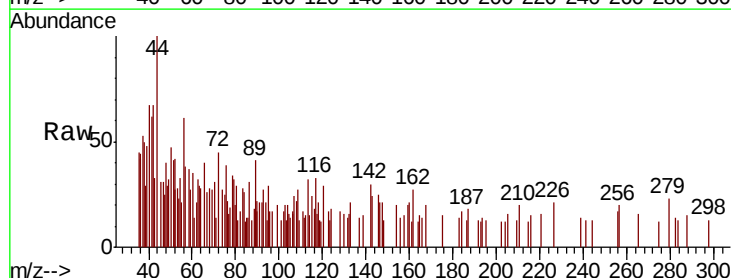
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20200312

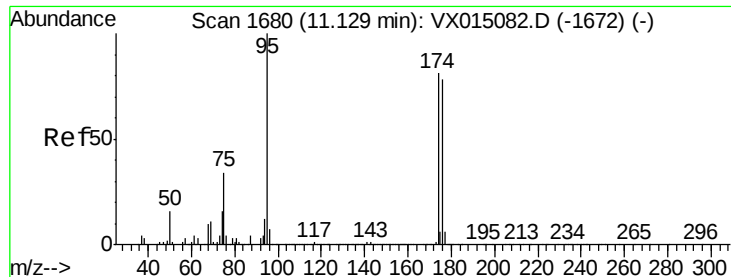
Tot Ion:	97	Resp:	1250
Ion	Ratio	Lower	Upper
97	100		
83	62.2	66.4	99.6#
85	35.9	43.5	65.3#
99	72.9	50.7	76.1



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.221 ug/l
 RT: 8.14 min Scan# 1189
 Delta R.T. -0.17 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

Tgt Ion:	63	Resp:	567
Ion	Ratio	Lower	Upper
63	100		
106	23.5	22.8	34.2

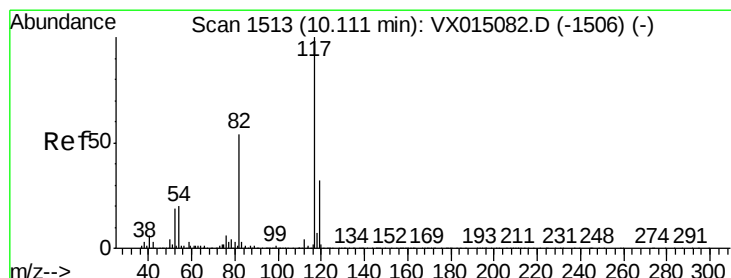
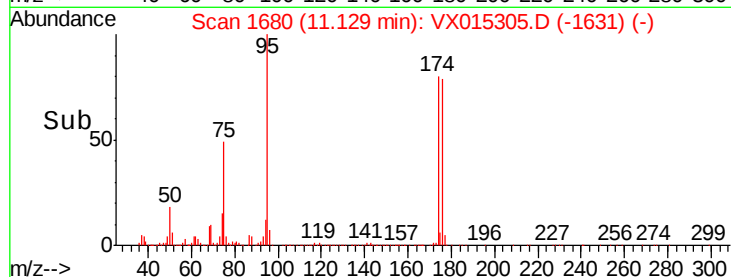
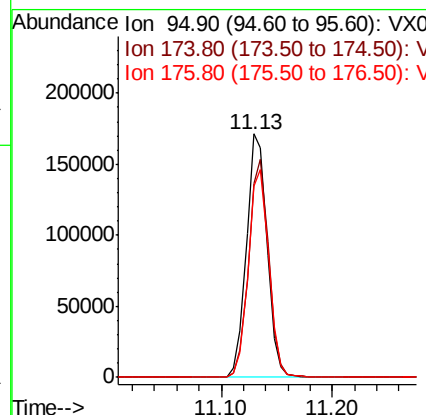
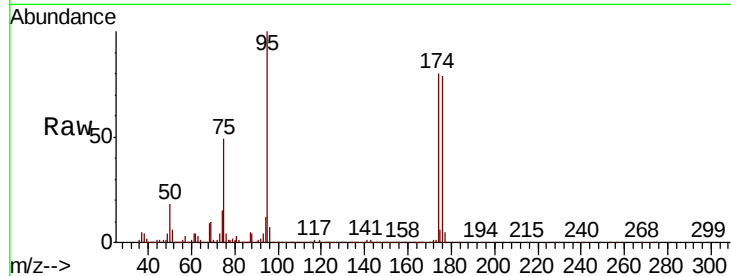




#62
4-Bromofluorobenzene
Concen: 53.557 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

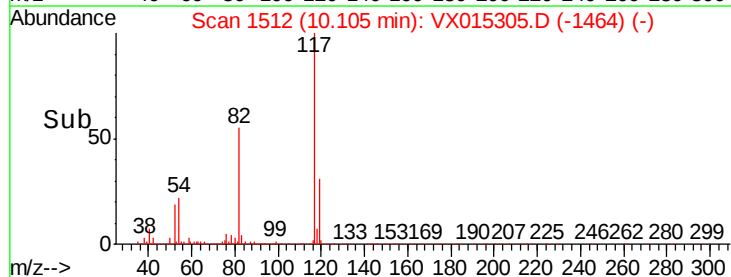
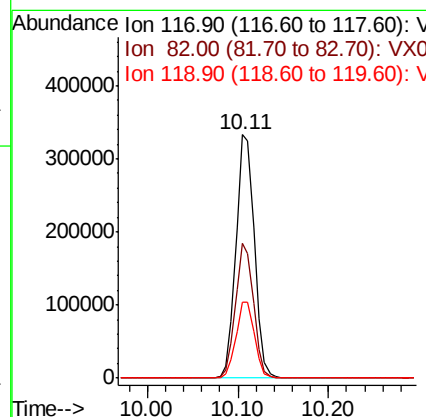
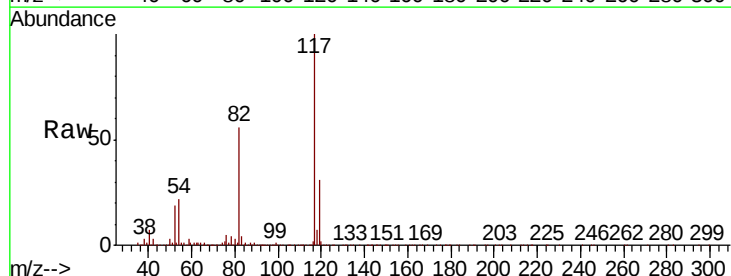
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20200312

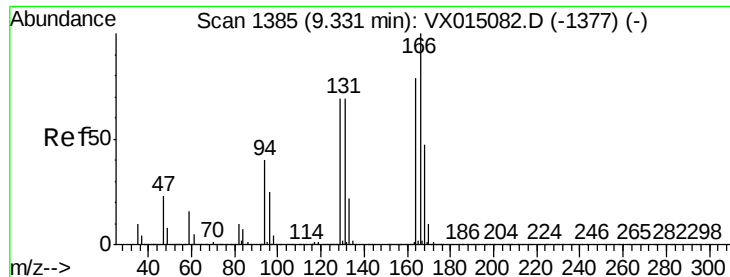
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	177.6
176	85.4	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.5	43.3	64.9
119	31.0	25.8	38.8

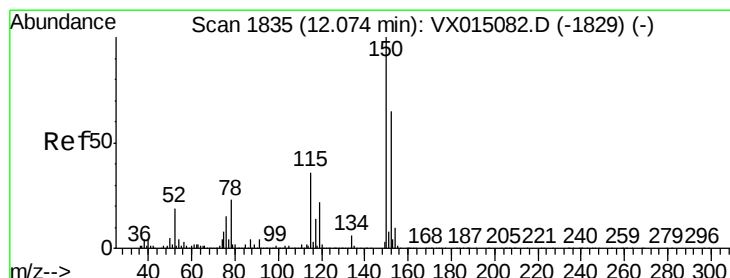
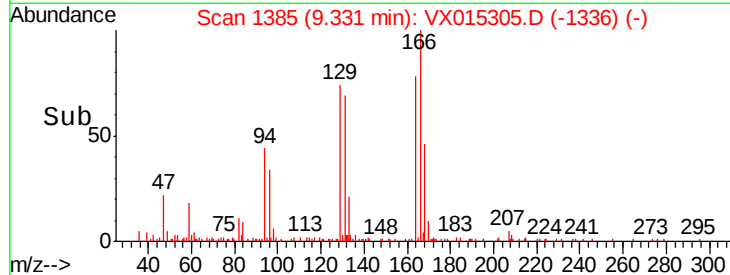
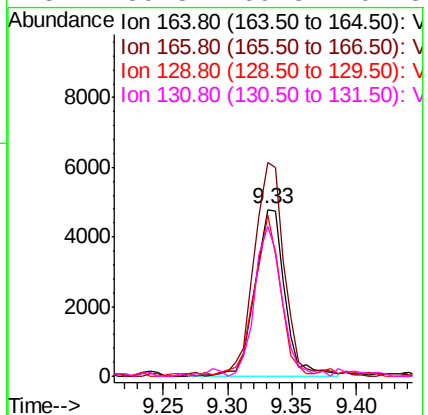
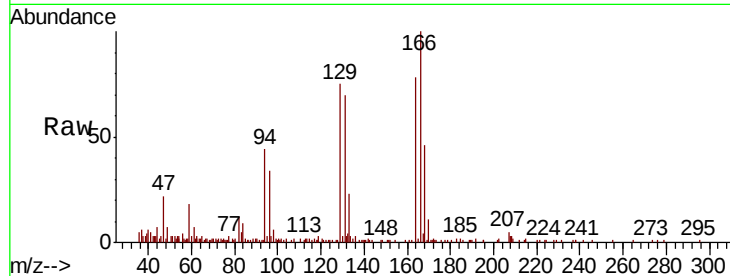




#64
Tetrachloroethene
Concen: 1.956 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

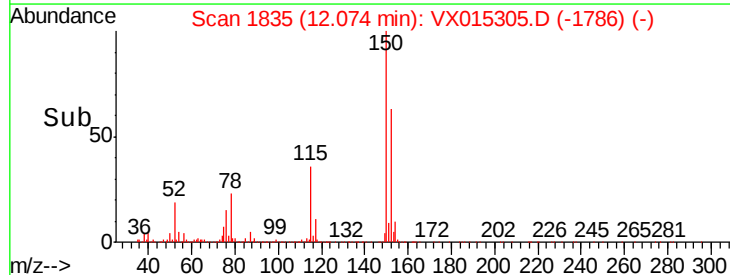
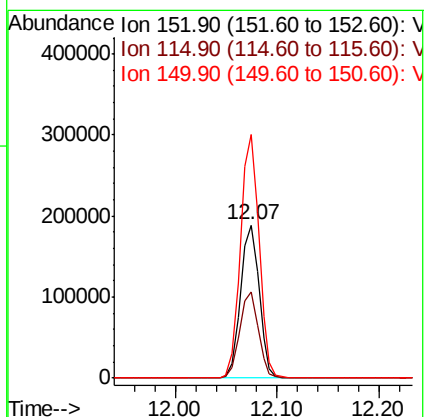
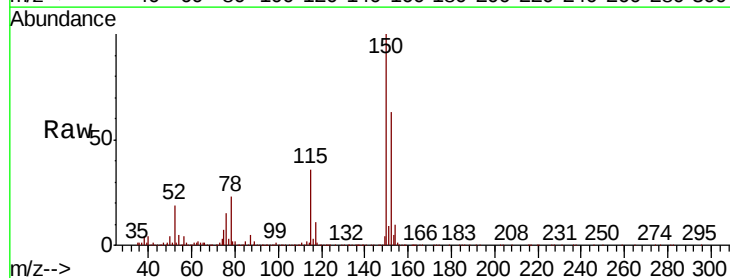
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20200312

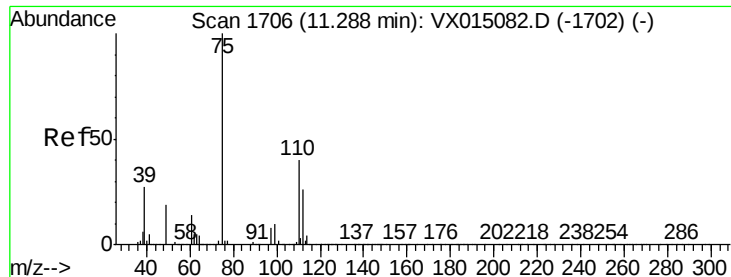
Tot Ion	Ratio	Lower	Upper
164	100		
166	126.8	101.1	151.7
129	95.1	69.4	104.0
131	89.8	69.8	104.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX015305.D
Acq: 16 Mar 2020 19:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	38.2	114.6
150	158.1	0.0	343.8

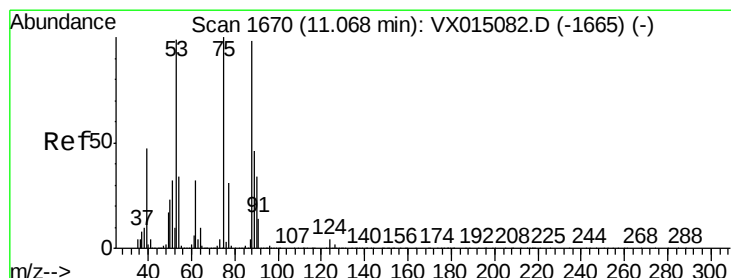
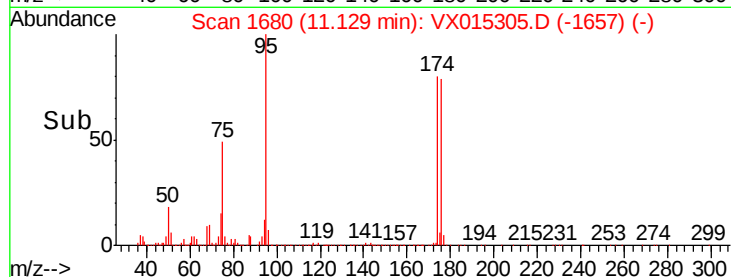
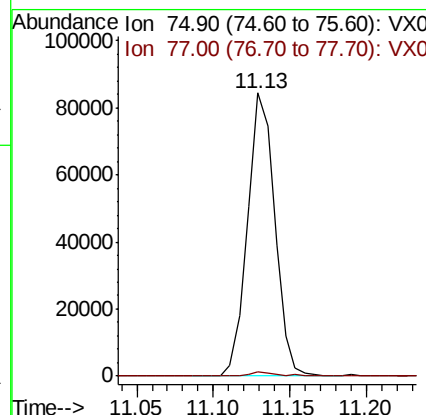
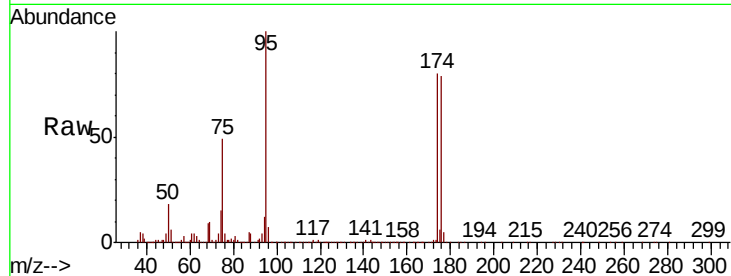




#76
 1,2,3-Trichloropropane
 Concen: 22.309 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

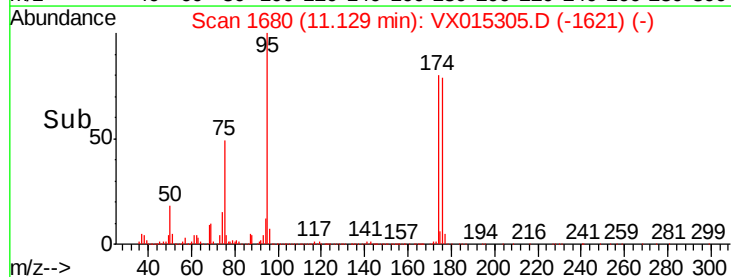
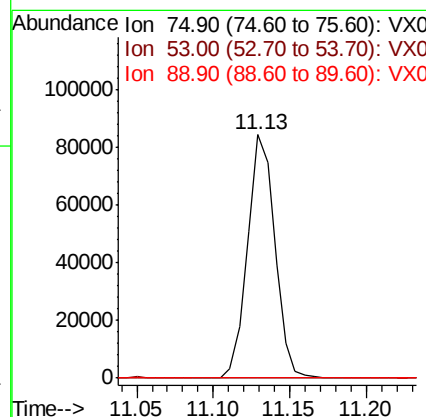
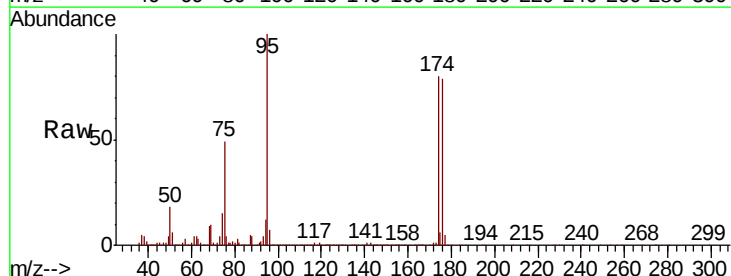
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20200312

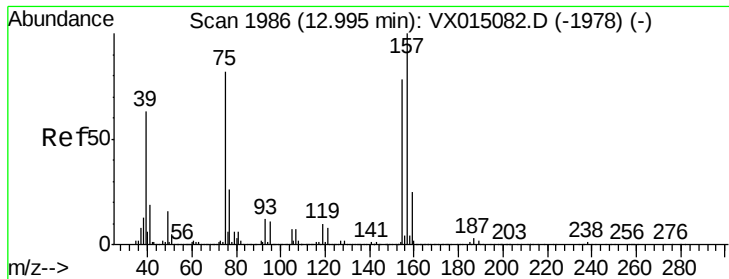
Tot Ion: 75 Resp: 105240
 Ion Ratio Lower Upper
 75 100
 77 1.7 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.313 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

Tgt Ion: 75 Resp: 105240
 Ion Ratio Lower Upper
 75 100
 53 0.4 77.9 116.9#
 89 0.0 36.2 54.2#

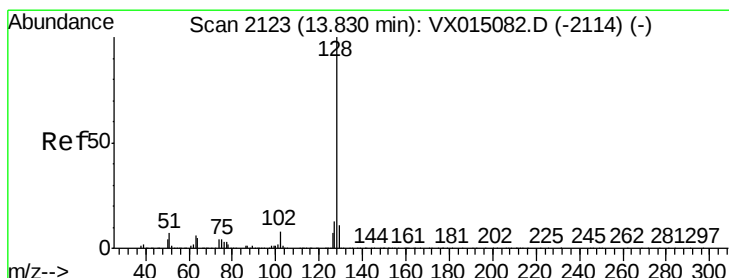
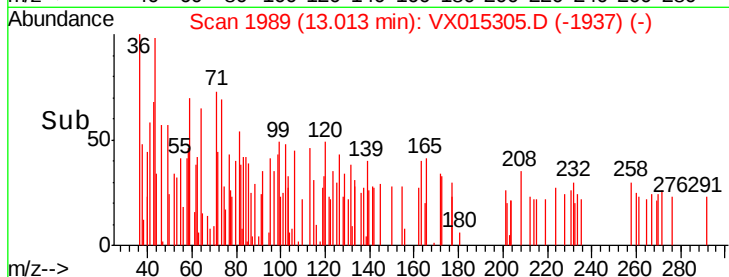
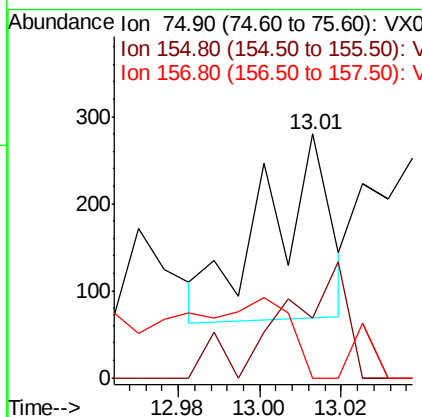
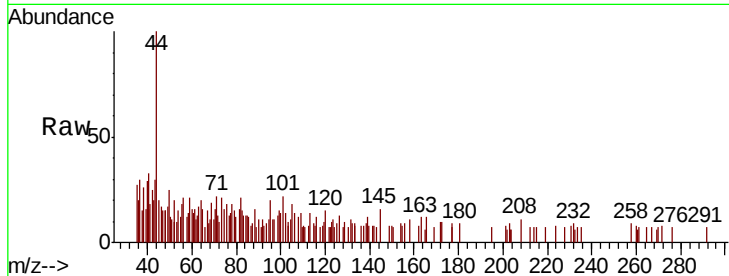




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.229 ug/l
 RT: 13.01 min Scan# 1989
 Delta R.T. 0.02 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20200312

Tot Ion: 75 Resp: 231
 Ion Ratio Lower Upper
 75 100
 155 62.8 46.6 139.7
 157 10.0 59.2 177.5#



#95
 Naphthalene
 Concen: 1.485 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX015305.D
 Acq: 16 Mar 2020 19:43

Tgt Ion: 128 Resp: 1049
 Ion Ratio Lower Upper
 128 100
 127 7.8 10.3 15.5#
 129 30.6 8.6 13.0#

