

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031620\
 Data File : VX015287.D
 Acq On : 16 Mar 2020 12:34
 Operator : JC/SP
 Sample : L1903-17DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D1-20200310DL

Quant Time: Mar 17 07:40:12 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	280242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	440541	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	424457	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	232403	50.00	ug/l	0.00

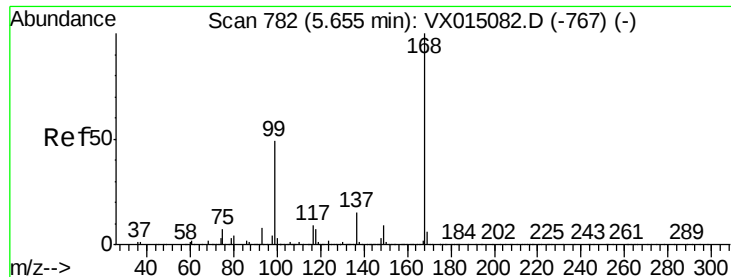
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	155709	46.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.66%	
35) Dibromofluoromethane	5.48	113	134109	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
50) Toluene-d8	8.71	98	531660	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
62) 4-Bromofluorobenzene	11.13	95	208016	55.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	947	0.386	ug/l	73
3) Chloromethane	1.31	50	911	0.262	ug/l #	78
5) Bromomethane	1.64	94	1536	0.709	ug/l #	68
9) 1,1,2-Trichlorotrifluoroet	2.37	101	10239	3.880	ug/l	97
10) Methyl Iodide	2.50	142	2103	0.705	ug/l #	87
11) Tert butyl alcohol	3.00	59	5793	10.043	ug/l #	80
12) 1,1-Dichloroethene	2.36	96	4040	1.483	ug/l #	81
13) Acrolein	2.26	56	241	0.445	ug/l #	75
15) Acrylonitrile	3.14	53	558	0.388	ug/l #	62
16) Acetone	2.44	43	1602	1.190	ug/l #	72
17) Carbon Disulfide	2.56	76	1647	0.218	ug/l #	78
20) Methylene Chloride	2.84	84	1582	0.502	ug/l #	68
24) 1,1-Dichloroethane	3.69	63	1471	0.280	ug/l #	38
25) 2-Butanone	4.64	43	416	0.211	ug/l #	69
27) cis-1,2-Dichloroethene	4.58	96	1799	0.551	ug/l	71
36) 1,1-Dichloropropene	5.65	75	18577	4.561	ug/l #	51
38) Carbon Tetrachloride	5.78	117	1695	0.441	ug/l #	88
41) Methacrylonitrile	5.04	41	570	0.251	ug/l #	53
42) 1,2-Dichloroethane	6.18	62	1316	0.317	ug/l	80
44) Trichloroethene	7.20	130	160974	47.838	ug/l	94
49) 1,4-Dioxane	7.75	88	328	4.485	ug/l #	25
76) 1,2,3-Trichloropropane	11.13	75	97501	21.032	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	97501	59.690	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	1527	0.203	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	1092	0.218	ug/l #	86
95) Naphthalene	13.84	128	1383	1.507	ug/l #	89

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

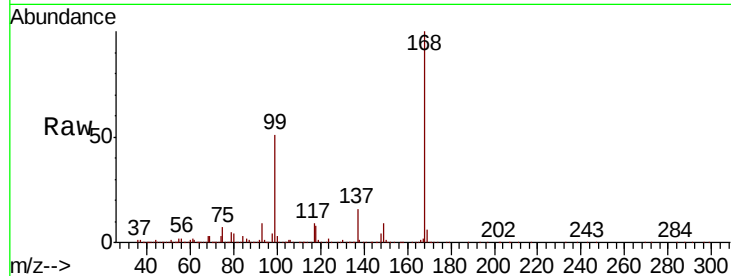


#1

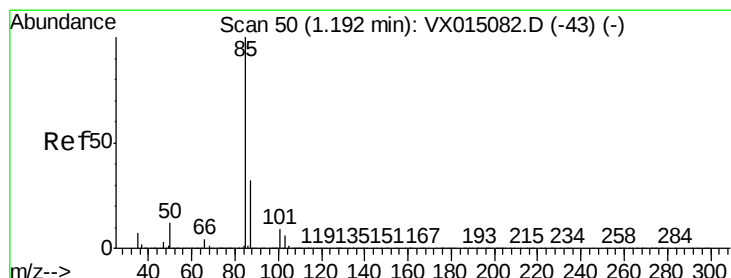
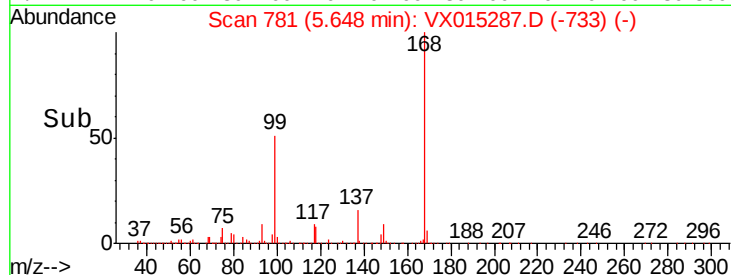
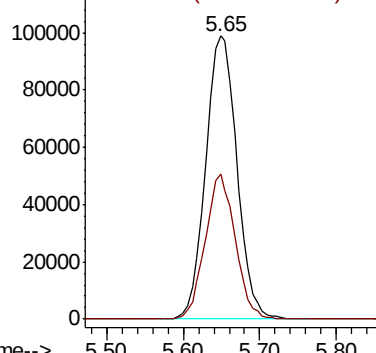
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.01 min
 Lab File: VX015287.D
 Acq: 16 Mar 2020 12:34

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D1-20200310DL

Tot Ion:168 Resp: 280242
 Ion Ratio Lower Upper
 168 100
 99 51.1 39.4 59.2



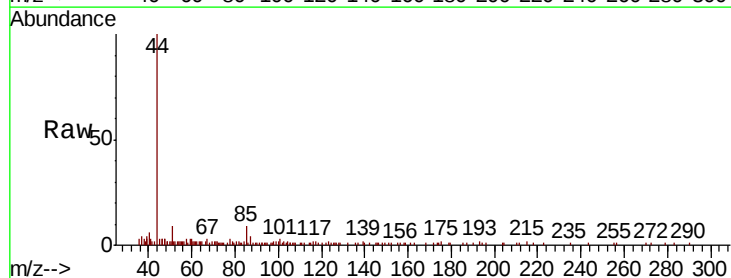
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



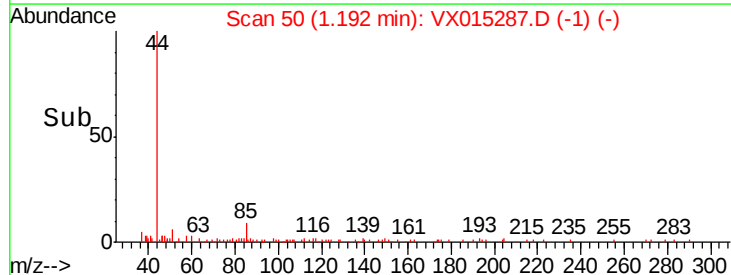
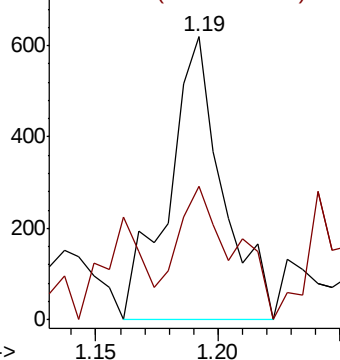
#2

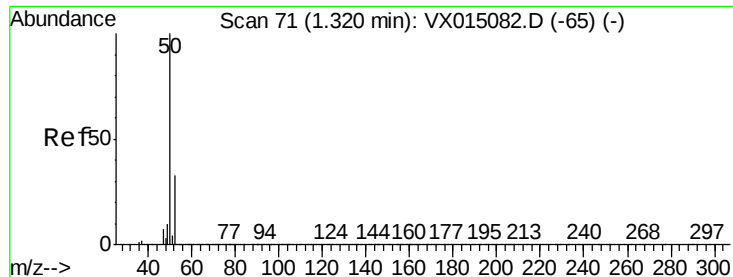
Dichlorodifluoromethane
 Concen: 0.386 ug/l
 RT: 1.19 min Scan# 50
 Delta R.T. -0.00 min
 Lab File: VX015287.D
 Acq: 16 Mar 2020 12:34

Tgt Ion: 85 Resp: 947
 Ion Ratio Lower Upper
 85 100
 87 47.2 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: 0.262 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

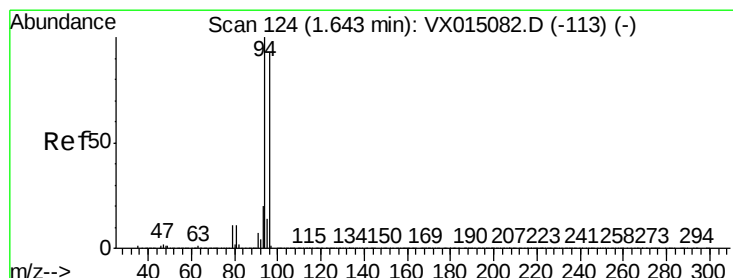
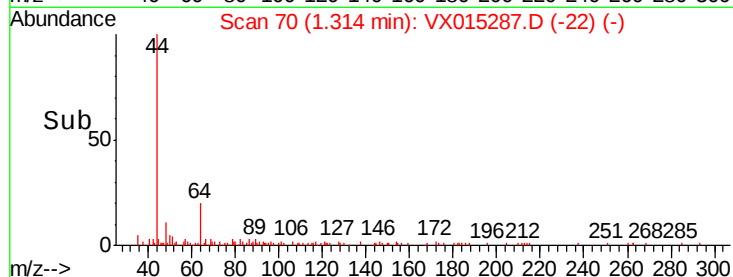
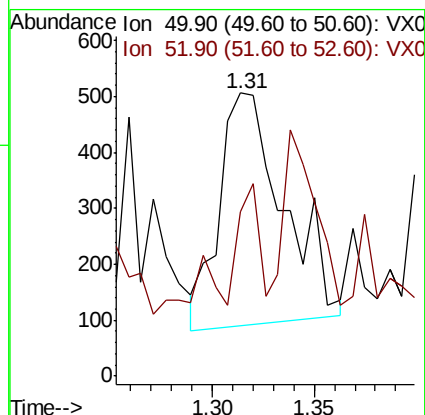
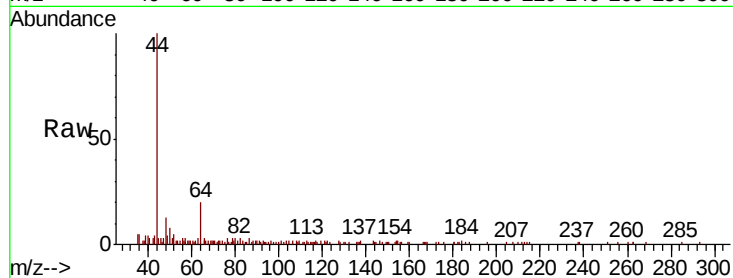
TT101D1-20200310DL

Tot Ion: 50 Resp: 911

Ion Ratio Lower Upper

50 100

52 45.0 26.2 39.2#



#5

Bromomethane

Concen: 0.709 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.01 min

Lab File: VX015287.D

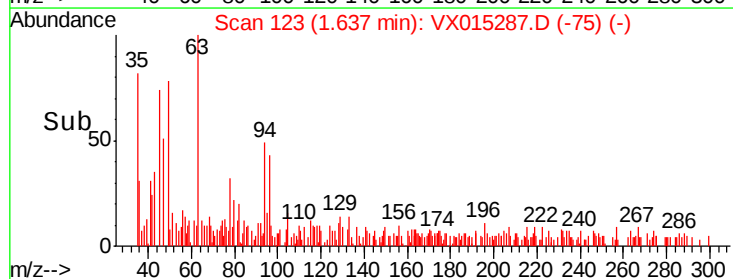
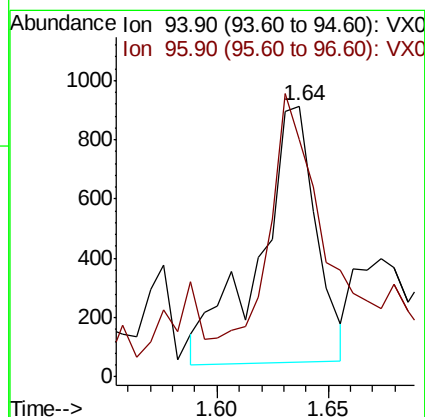
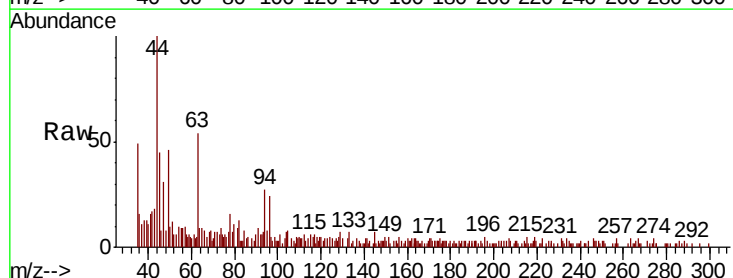
Acq: 16 Mar 2020 12:34

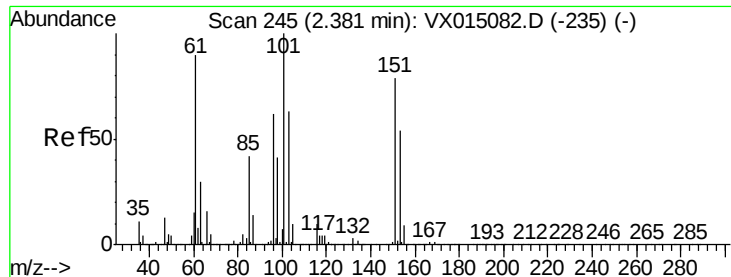
Tgt Ion: 94 Resp: 1536

Ion Ratio Lower Upper

94 100

96 62.2 74.6 111.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.880 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-20200310DL

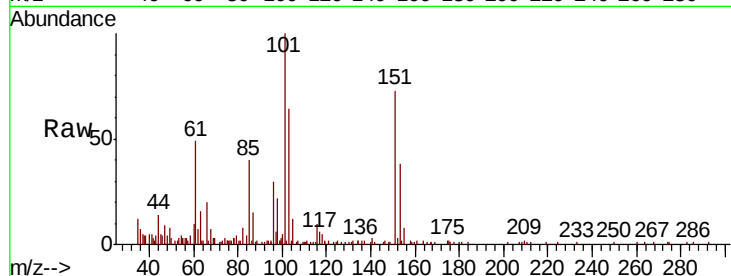
Tot Ion:101 Resp: 10239

Ion Ratio Lower Upper

101 100

85 44.5 33.7 50.5

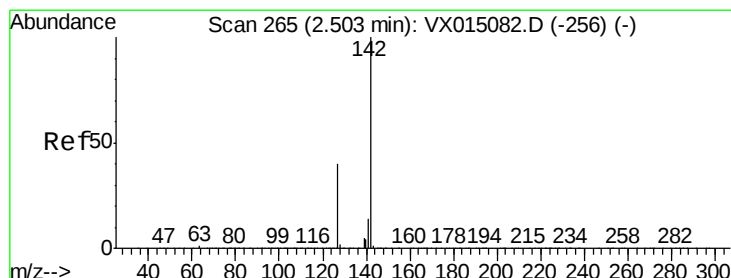
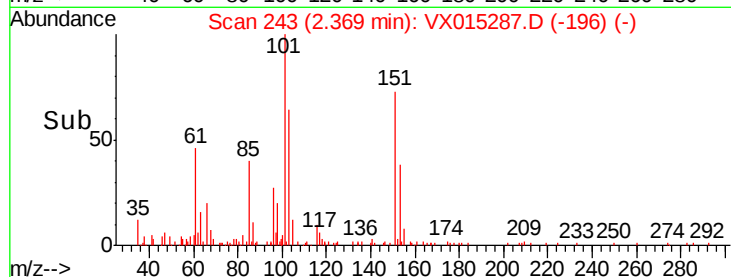
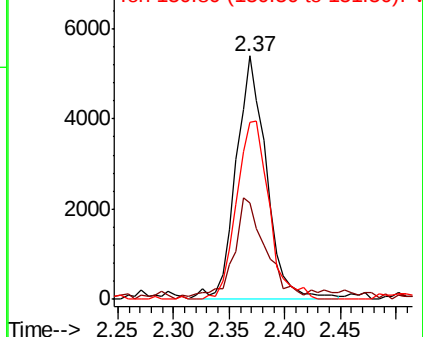
151 77.7 64.0 96.0



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

Methyl Iodide

Concen: 0.705 ug/l

RT: 2.50 min Scan# 265

Delta R.T. -0.00 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

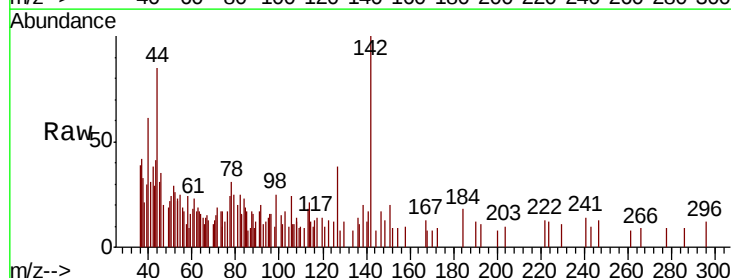
Tgt Ion:142 Resp: 2103

Ion Ratio Lower Upper

142 100

127 33.6 31.7 47.5

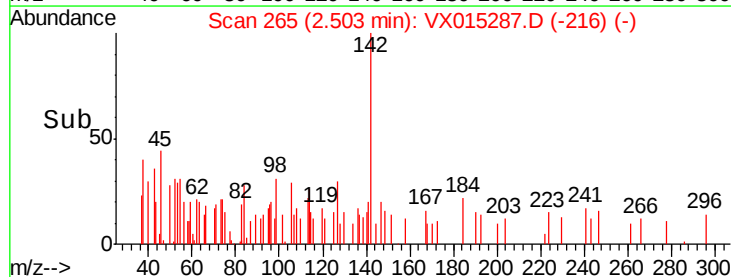
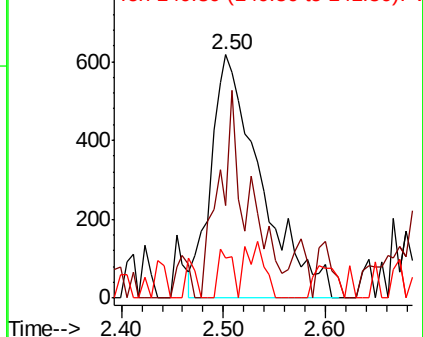
141 5.8 11.3 16.9#

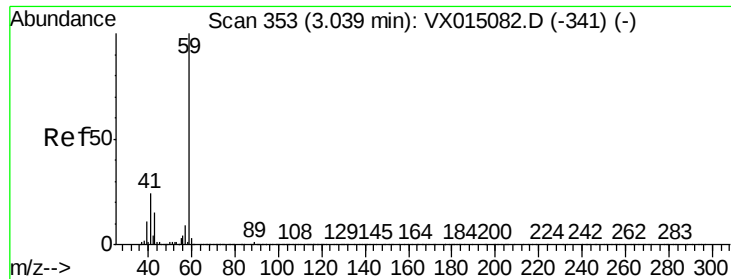


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

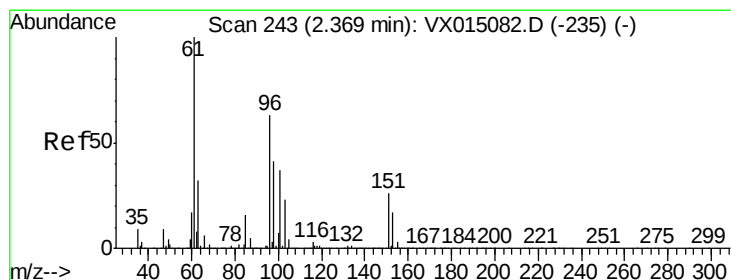
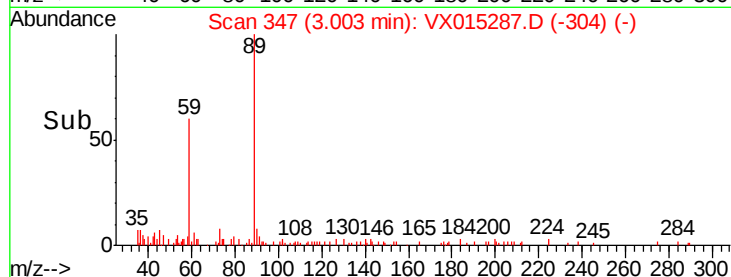
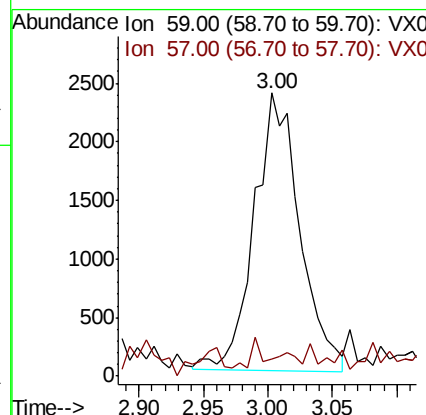
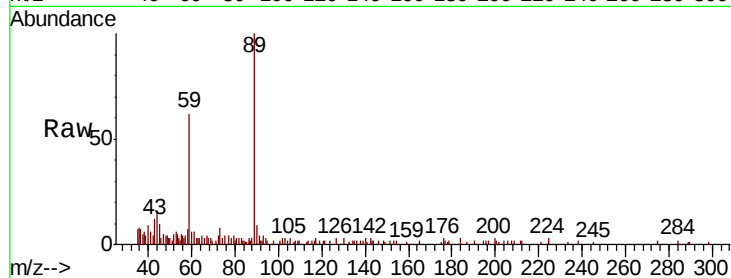




#11
Tert butyl alcohol
Concen: 10.043 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

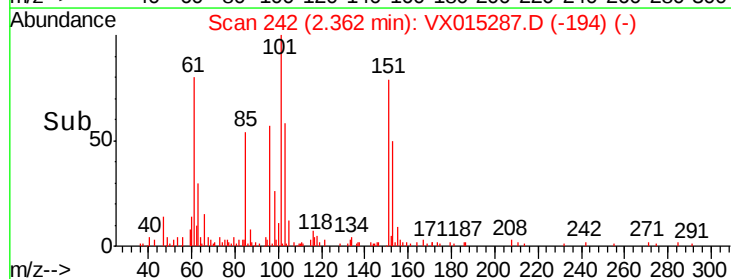
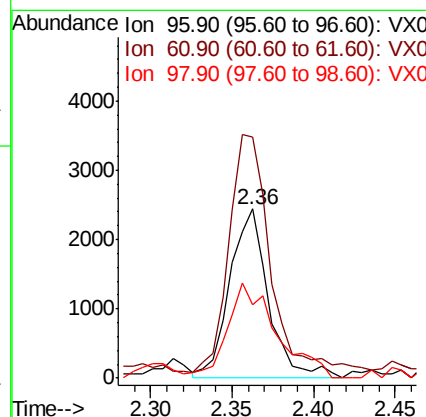
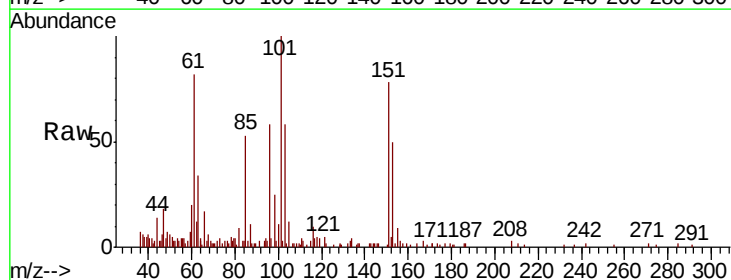
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-20200310DL

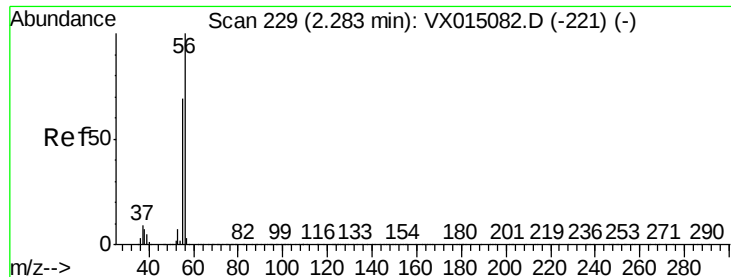
Tot Ion: 59 Resp: 5793
Ion Ratio Lower Upper
59 100
57 2.9 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 1.483 ug/l
RT: 2.36 min Scan# 242
Delta R.T. -0.01 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

Tgt Ion: 96 Resp: 4040
Ion Ratio Lower Upper
96 100
61 139.4 126.2 189.4
98 40.7 51.4 77.0#





#13

Acrolein

Concen: 0.445 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleID :

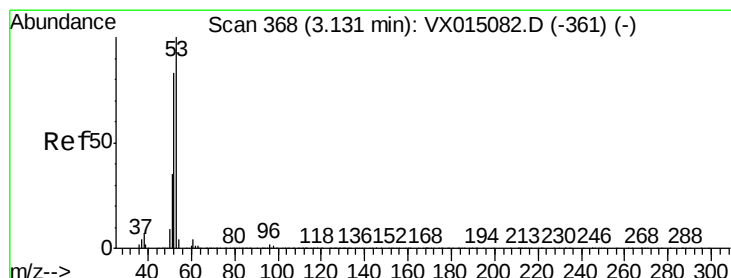
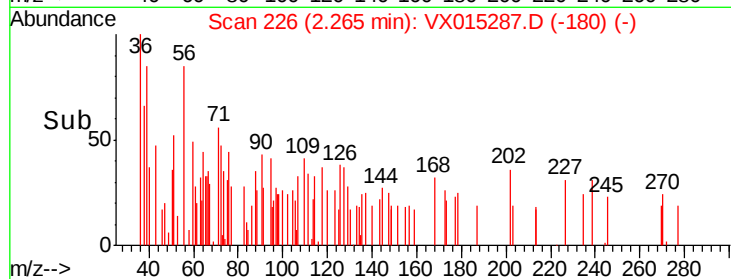
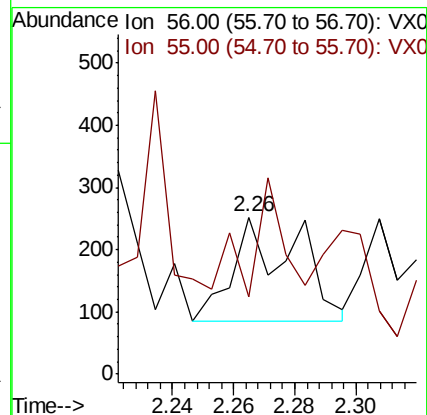
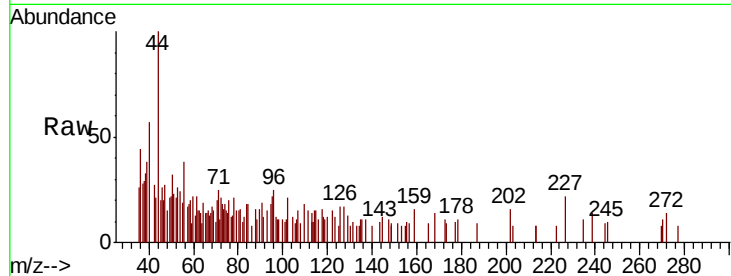
TT101D1-20200310DL

Tot Ion: 56 Resp: 241

Ion Ratio Lower Upper

56 100

55 48.5 55.4 83.0#



#15

Acrylonitrile

Concen: 0.388 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

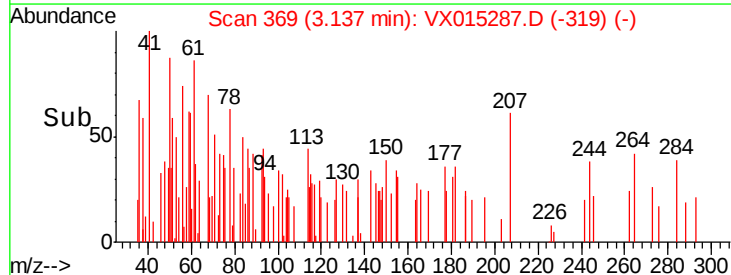
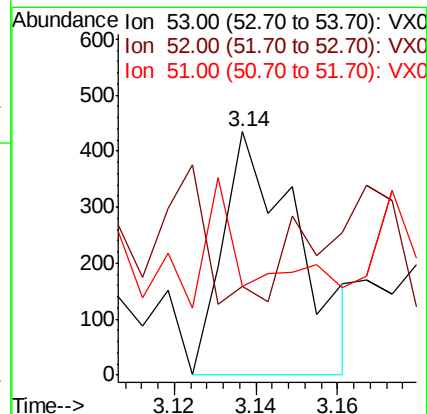
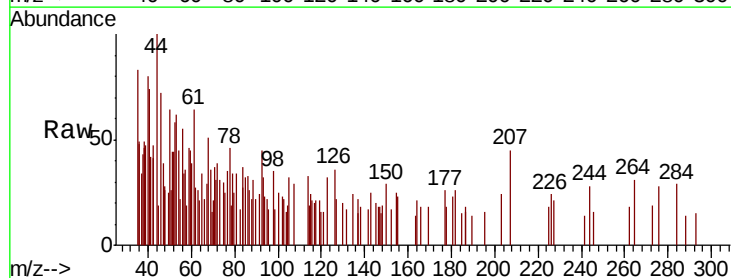
Tgt Ion: 53 Resp: 558

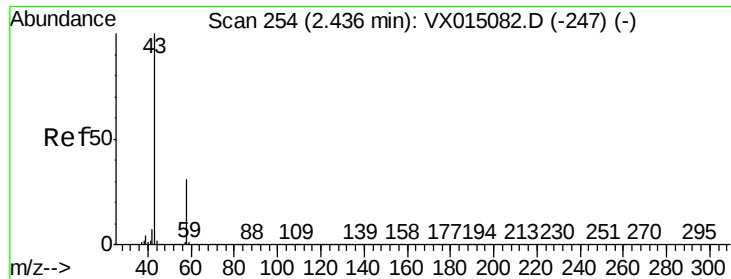
Ion Ratio Lower Upper

53 100

52 39.1 66.6 100.0#

51 28.1 29.0 43.6#





#16

Acetone

Concen: 1.190 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

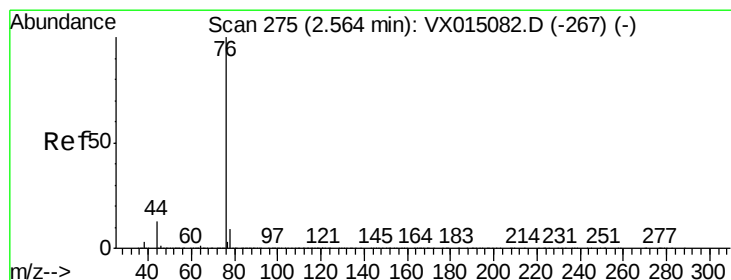
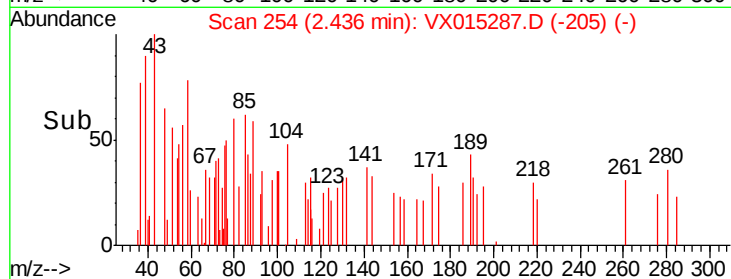
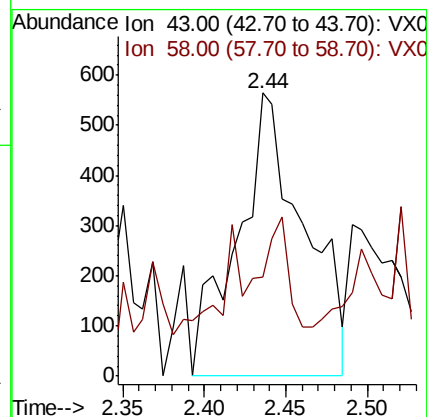
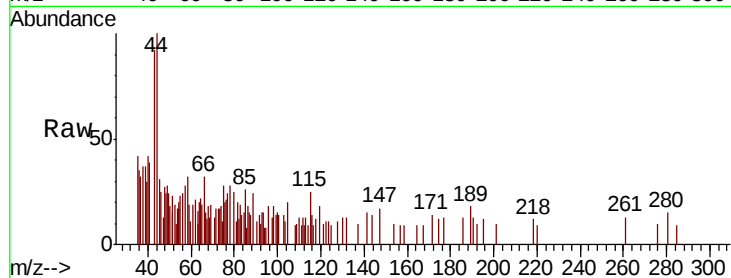
TT101D1-20200310DL

Tot Ion: 43 Resp: 1602

Ion Ratio Lower Upper

43 100

58 15.4 24.8 37.2#



#17

Carbon Disulfide

Concen: 0.218 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX015287.D

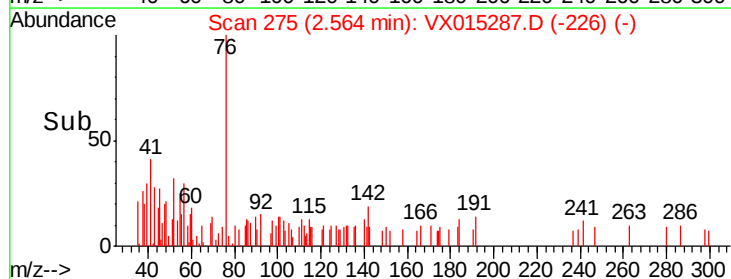
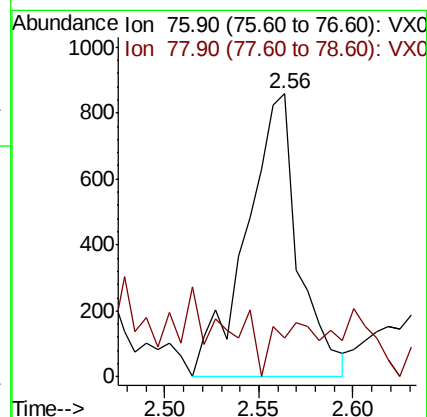
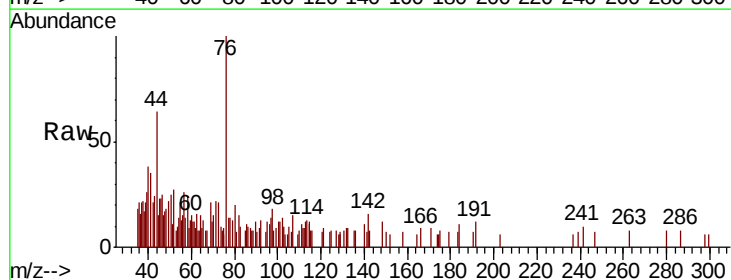
Acq: 16 Mar 2020 12:34

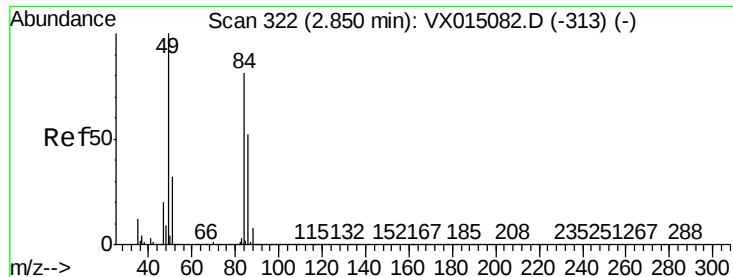
Tgt Ion: 76 Resp: 1647

Ion Ratio Lower Upper

76 100

78 1.0 7.3 10.9#





#20

Methylene Chloride

Concen: 0.502 ug/l

RT: 2.84 min Scan# 320

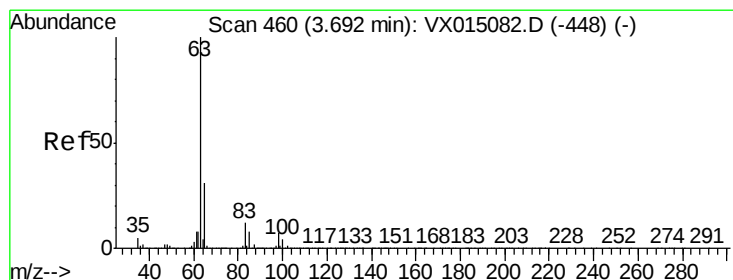
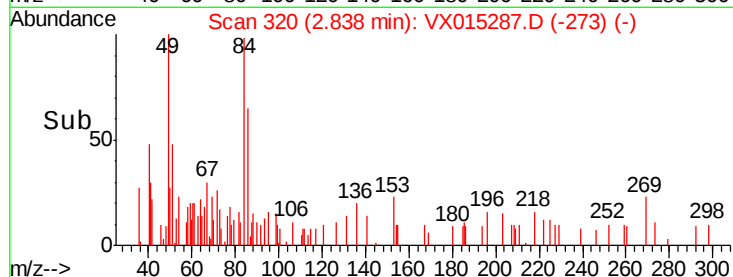
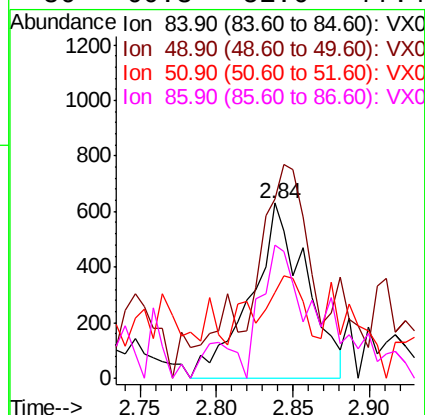
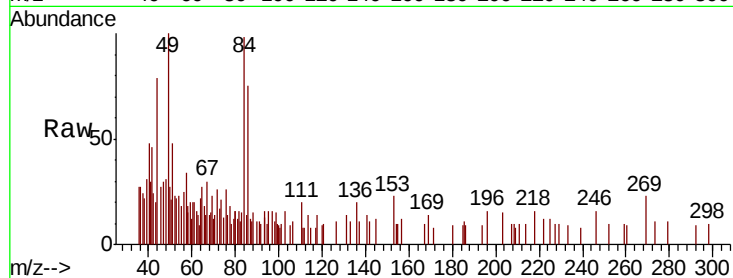
Delta R.T. -0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :
MSVOA_X
ClientSampleId :
TT101D1-20200310DL

Tot Ion:	84	Resp:	1582
Ion	Ratio	Lower	Upper
84	100		
49	68.6	99.4	149.2#
51	24.4	31.5	47.3#
86	60.3	51.6	77.4



#24

1,1-Dichloroethane

Concen: 0.280 ug/l

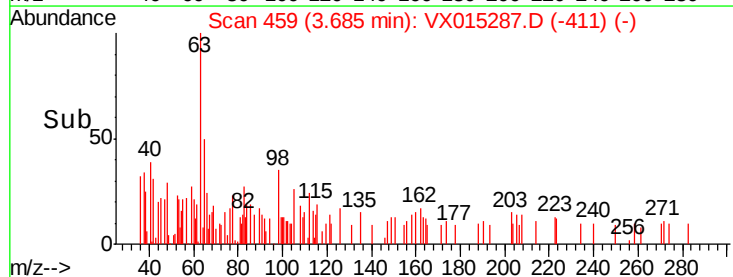
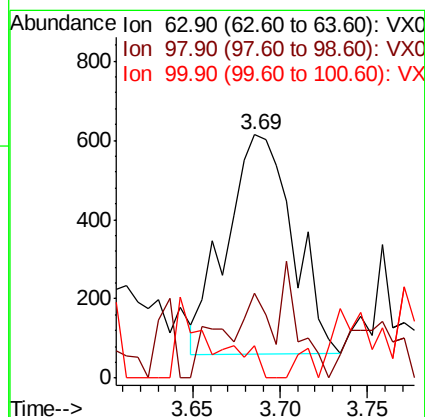
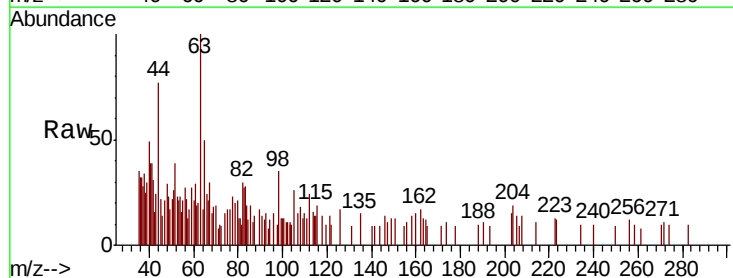
RT: 3.69 min Scan# 459

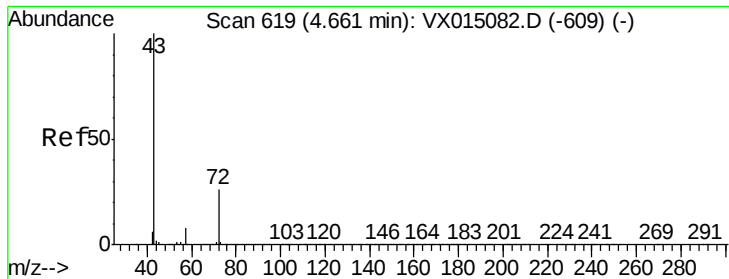
Delta R.T. -0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Tgt Ion:	63	Resp:	1471
Ion	Ratio	Lower	Upper
63	100		
98	38.7	3.7	11.1#
100	8.7	2.1	6.5#





#25

2-Butanone

Concen: 0.211 ug/l

RT: 4.64 min Scan# 616

Delta R.T. -0.02 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

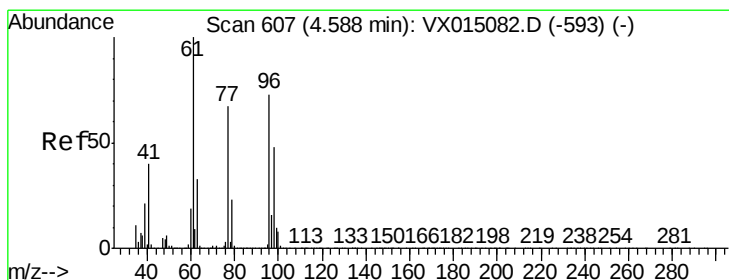
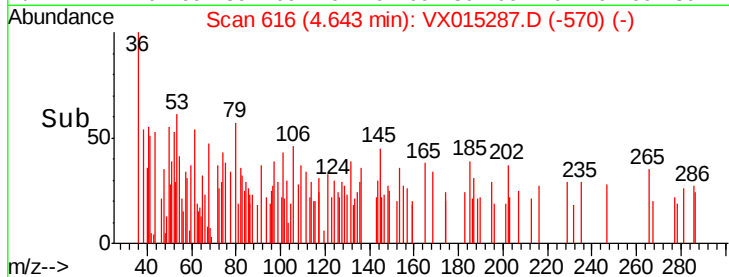
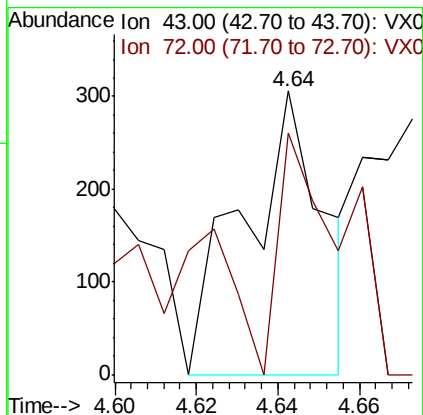
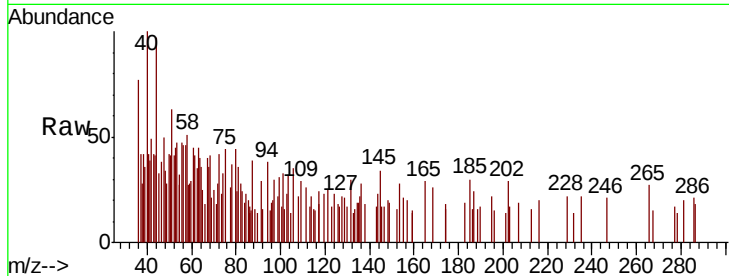
TT101D1-20200310DL

Tot Ion: 43 Resp: 416

Ion Ratio Lower Upper

43 100

72 41.2 20.6 30.8#



#27

cis-1,2-Dichloroethene

Concen: 0.551 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

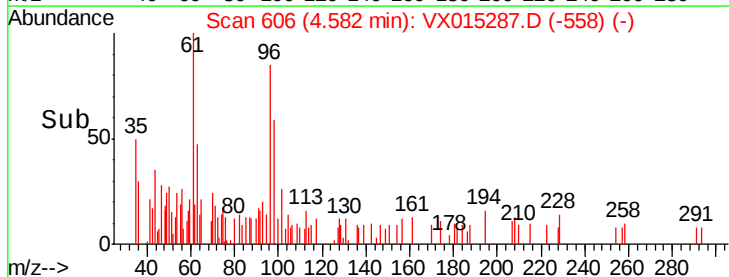
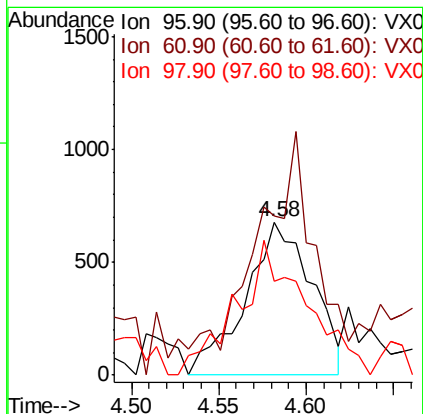
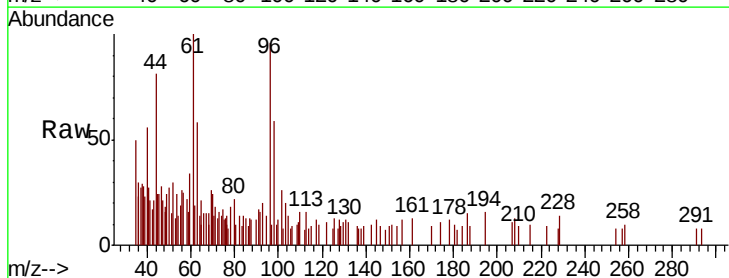
Tgt Ion: 96 Resp: 1799

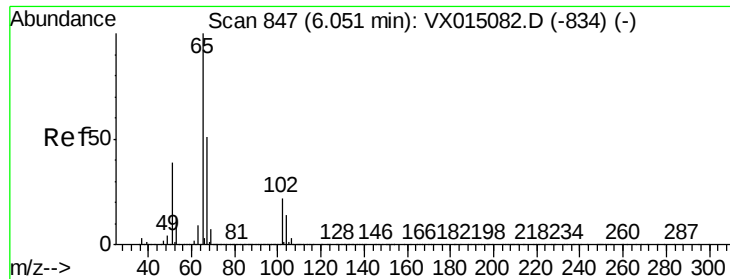
Ion Ratio Lower Upper

96 100

61 110.7 0.0 286.8

98 91.5 0.0 128.4





#33

1,2-Dichloroethane-d4

Concen: 46.834 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

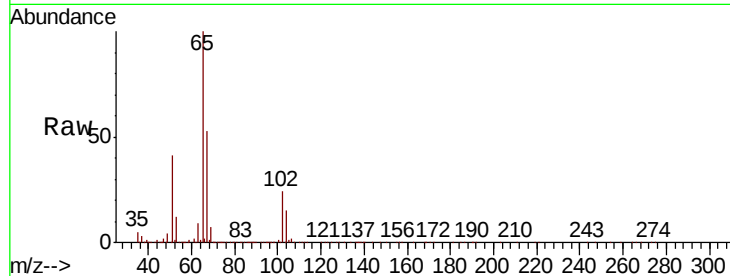
TT101D1-20200310DL

Tot Ion: 65 Resp: 155709

Ion Ratio Lower Upper

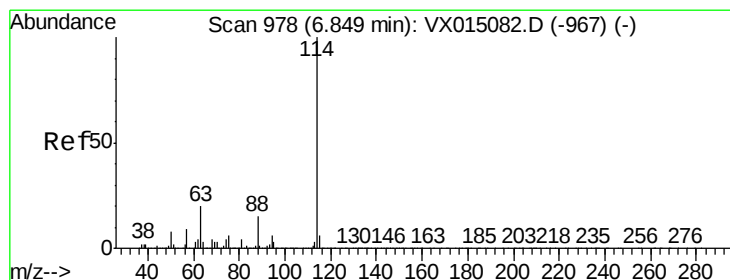
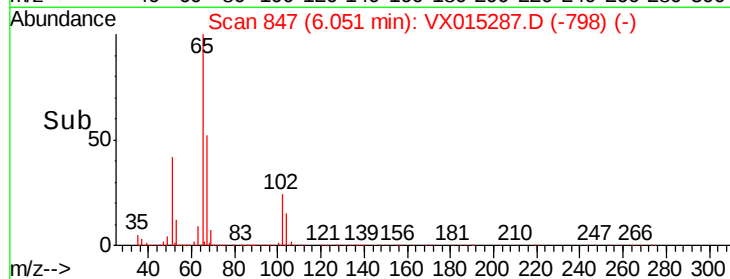
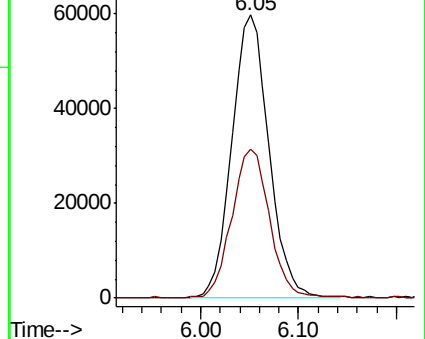
65 100

67 53.9 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: VX015287.D

Acq: 16 Mar 2020 12:34

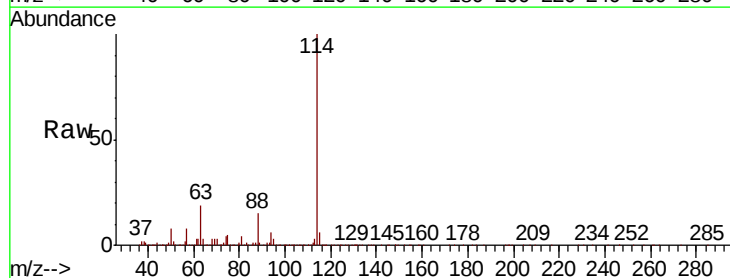
Tgt Ion: 114 Resp: 440541

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

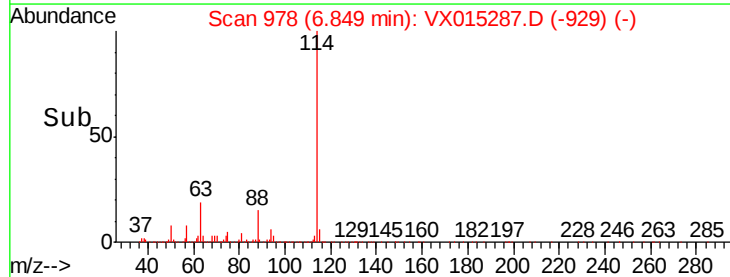
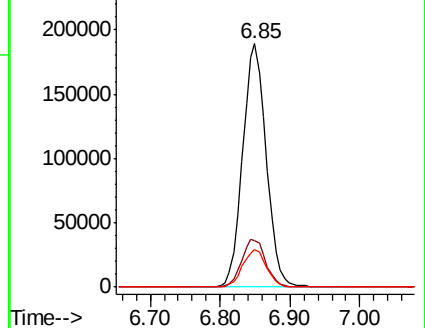
88 15.5 0.0 30.6

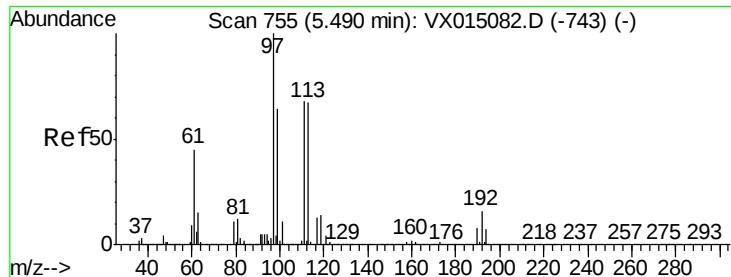


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.254 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-20200310DL

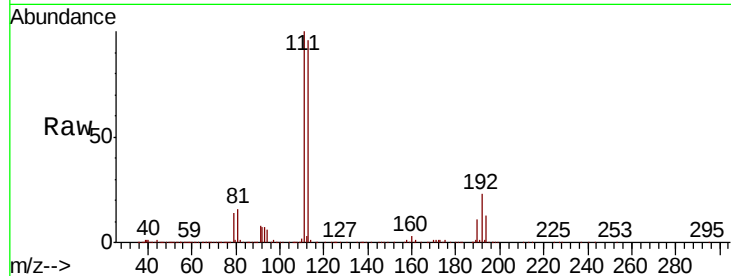
Tot Ion:113 Resp: 134109

Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

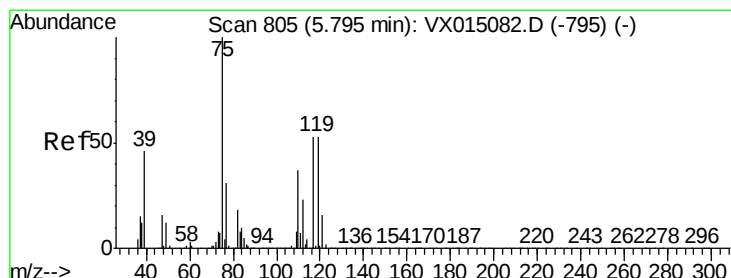
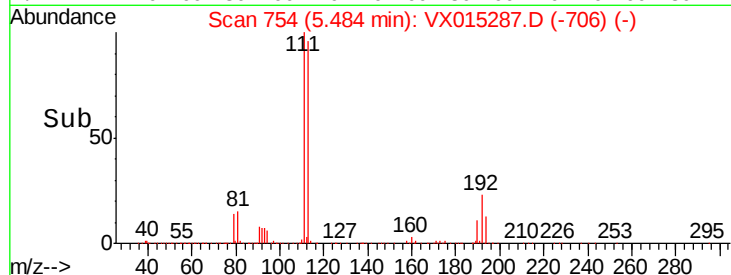
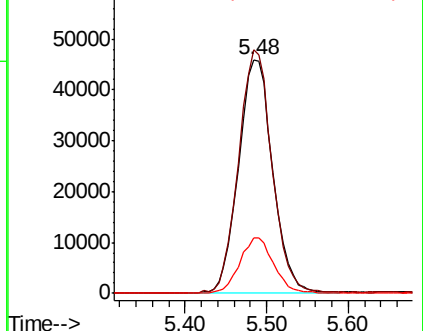
192 23.7 18.6 28.0



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: 4.561 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

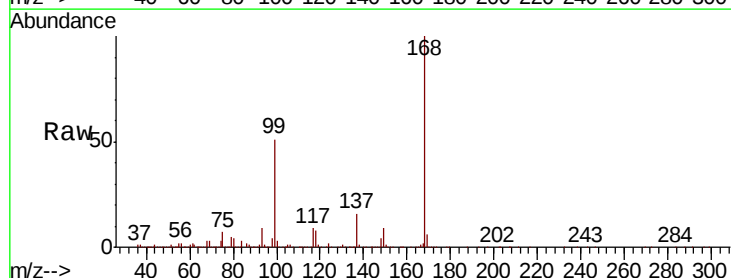
Tgt Ion: 75 Resp: 18577

Ion Ratio Lower Upper

75 100

110 10.2 17.9 53.8#

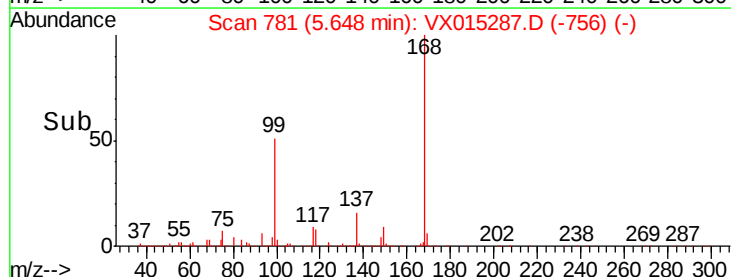
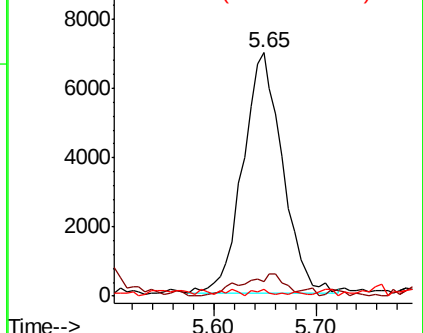
77 1.2 24.8 37.2#

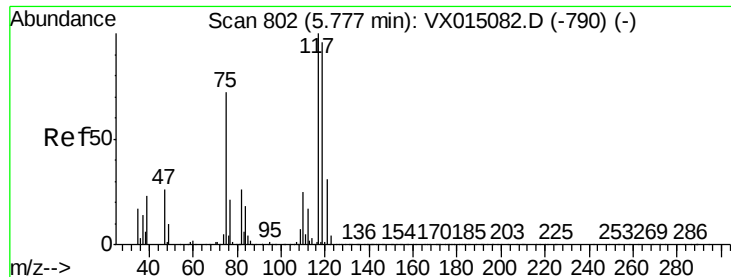


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.441 ug/l

RT: 5.78 min Scan# 802

Delta R.T. -0.00 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-20200310DL

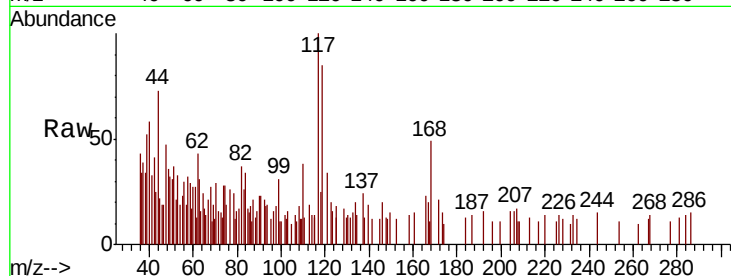
Tot Ion:117 Resp: 1695

Ion Ratio Lower Upper

117 100

119 85.2 76.9 115.3

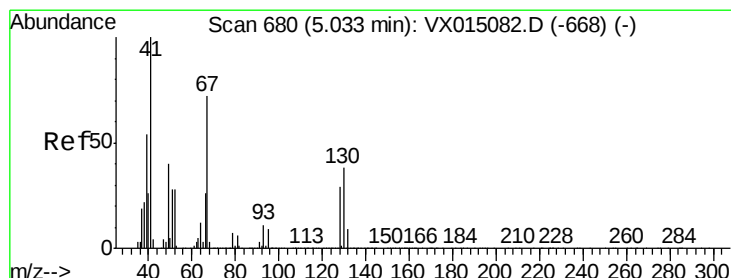
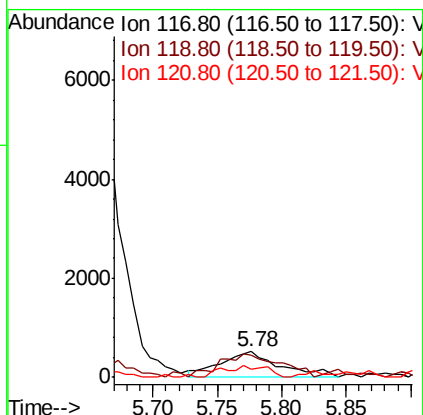
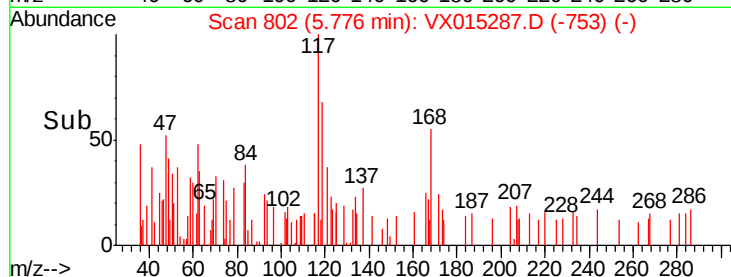
121 23.6 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.251 ug/l

RT: 5.04 min Scan# 682

Delta R.T. 0.01 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Tgt Ion: 41 Resp: 570

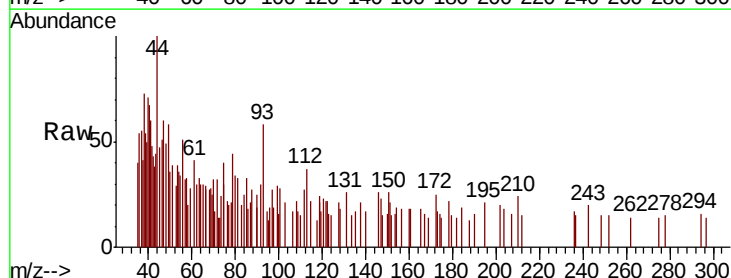
Ion Ratio Lower Upper

41 100

39 0.0 43.9 65.9#

67 38.9 57.8 86.8#

52 23.2 22.6 34.0

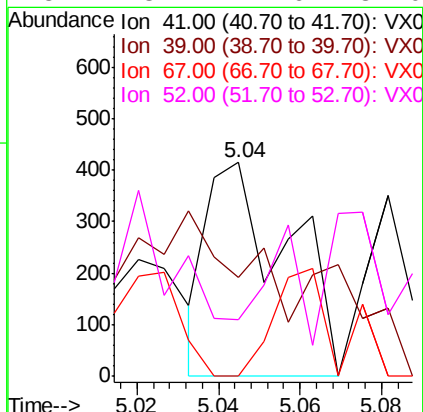
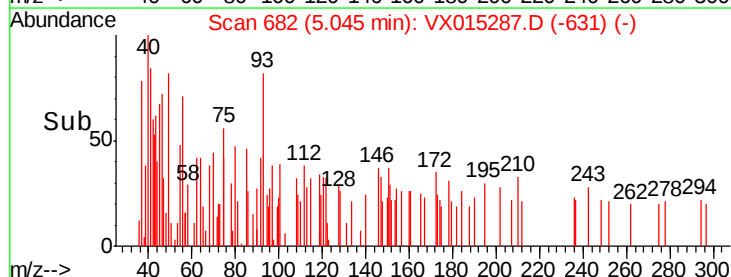


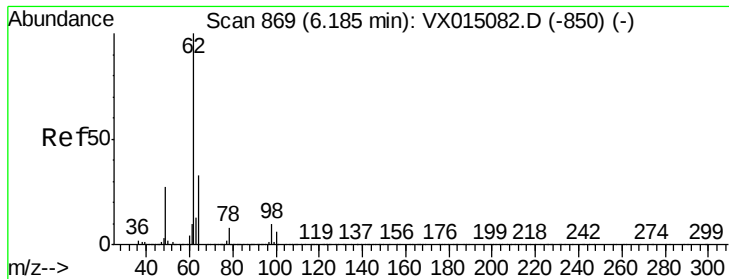
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

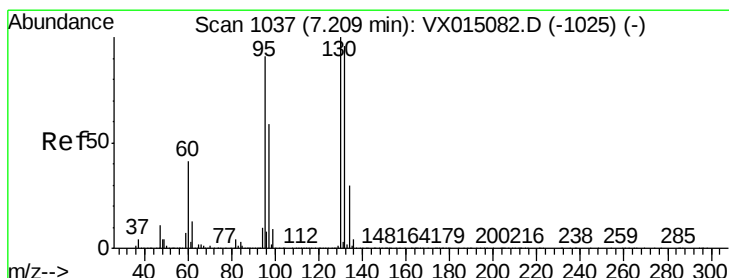
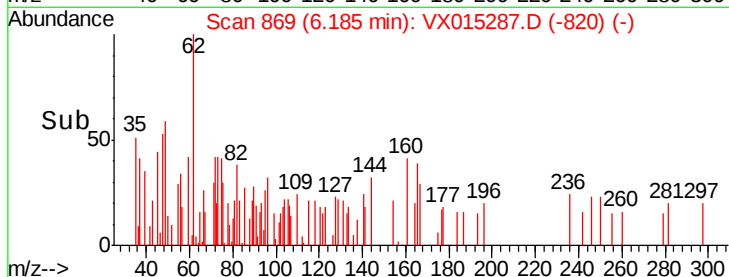
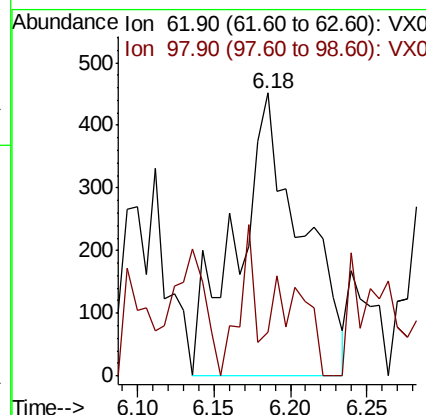
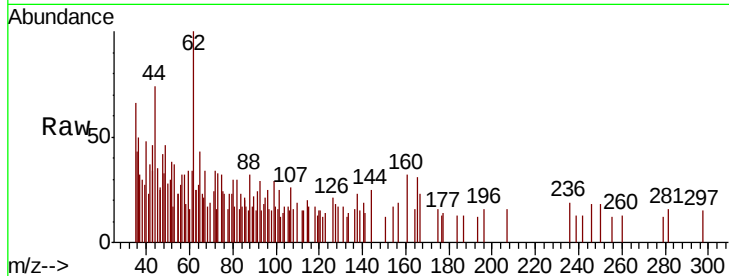




#42
1,2-Dichloroethane
Concen: 0.317 ug/l
RT: 6.18 min Scan# 869
Delta R.T. -0.00 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

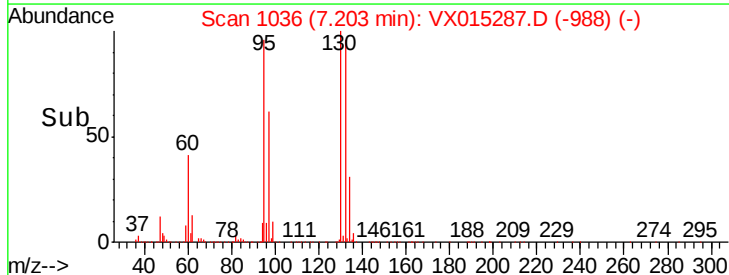
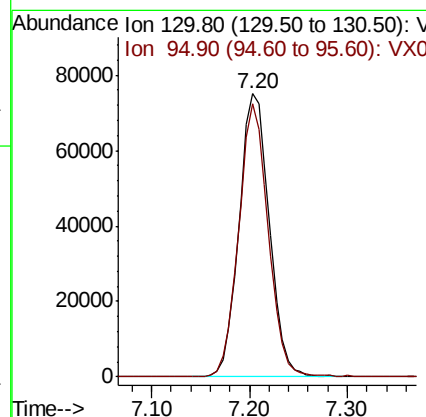
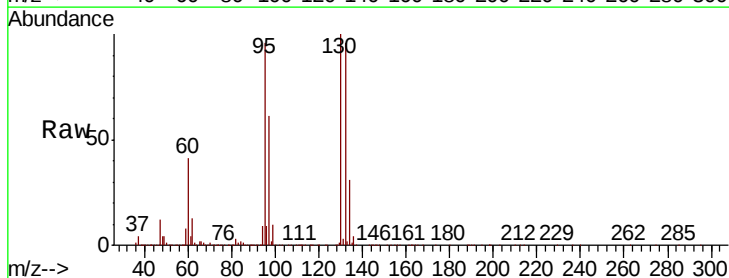
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-20200310DL

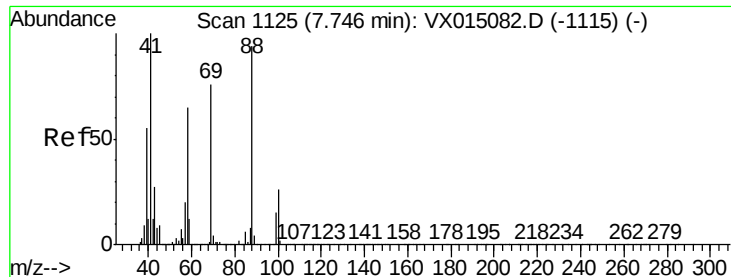
Tot Ion: 62 Resp: 1316
Ion Ratio Lower Upper
62 100
98 2.8 0.0 20.6



#44
Trichloroethene
Concen: 47.838 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. -0.01 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

Tgt Ion: 130 Resp: 160974
Ion Ratio Lower Upper
130 100
95 96.3 0.0 181.2

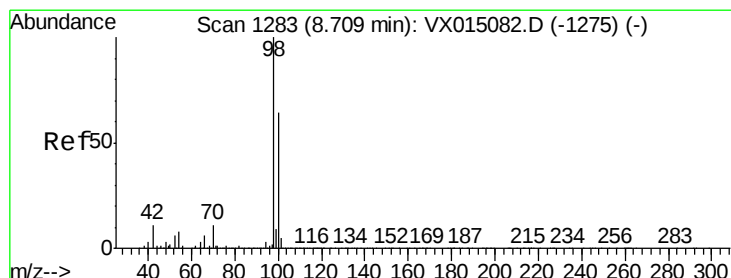
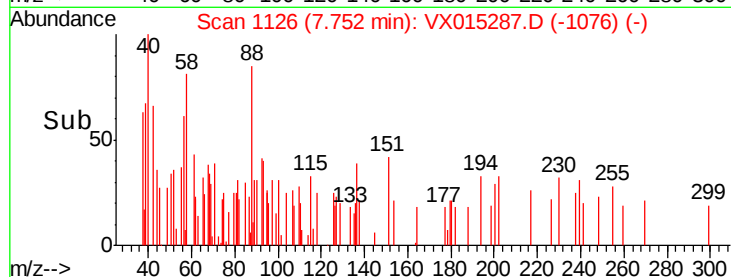
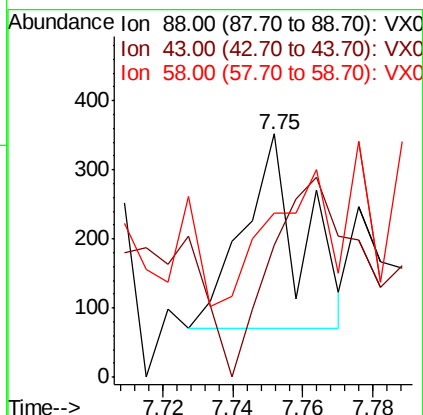
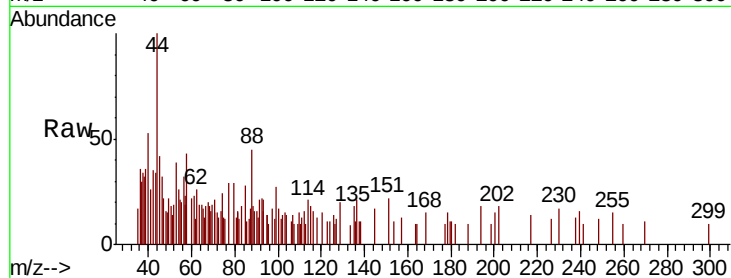




#49
1,4-Dioxane
Concen: 4.485 ug/l
RT: 7.75 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

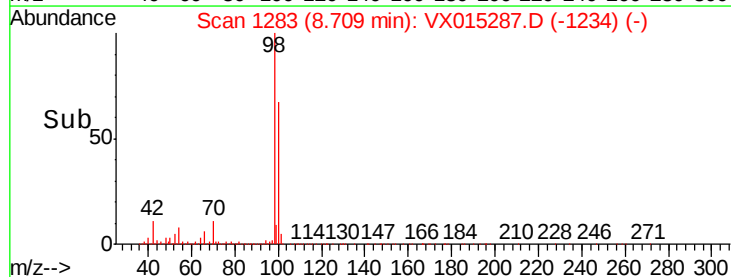
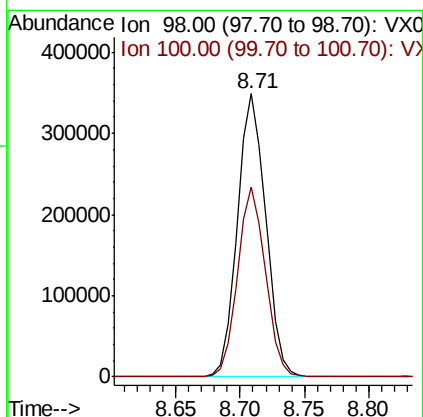
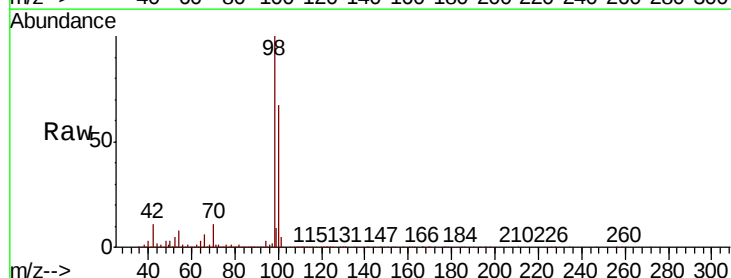
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-20200310DL

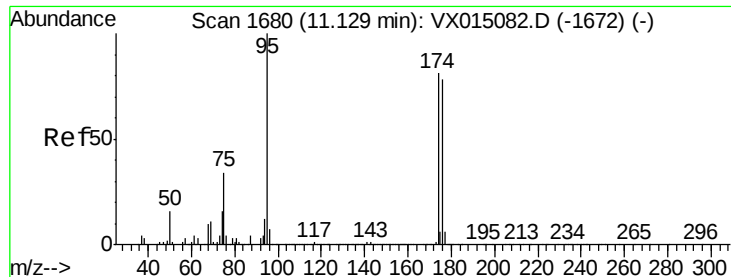
Tot Ion: 88 Resp: 328
Ion Ratio Lower Upper
88 100
43 152.4 27.0 40.4#
58 60.4 55.6 83.4



#50
Toluene-d8
Concen: 50.290 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

Tgt Ion: 98 Resp: 531660
Ion Ratio Lower Upper
98 100
100 65.8 52.4 78.6

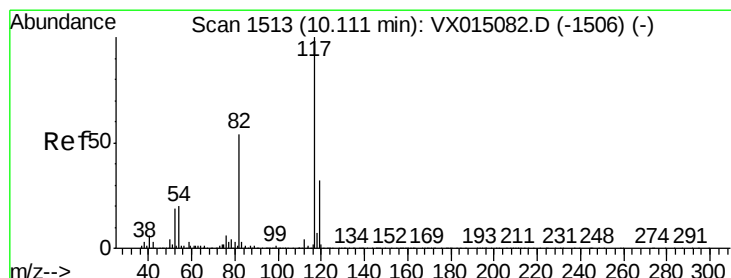
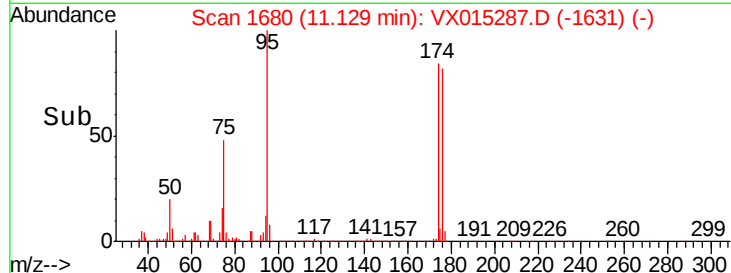
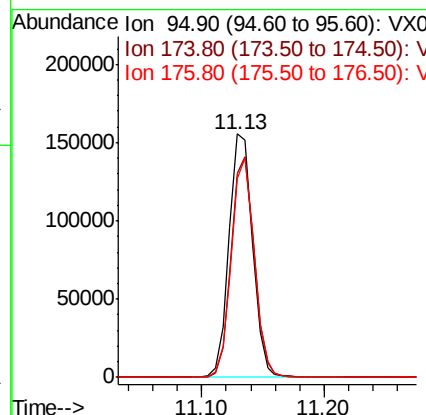
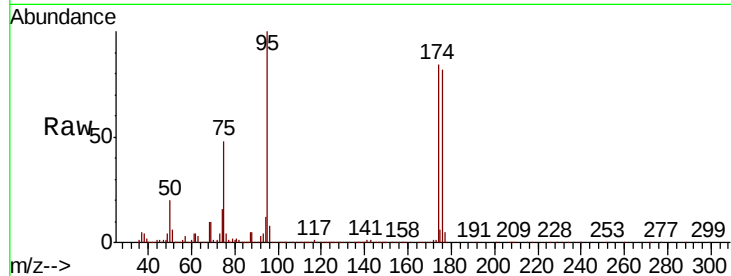




#62
4-Bromofluorobenzene
Concen: 55.164 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

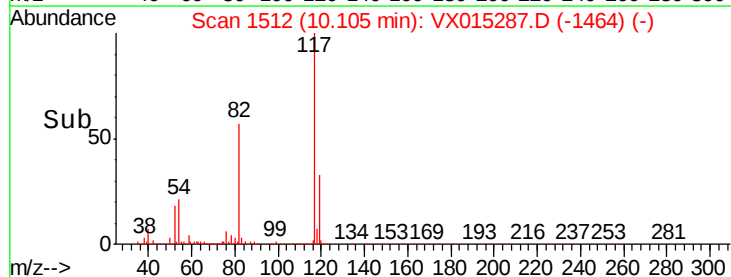
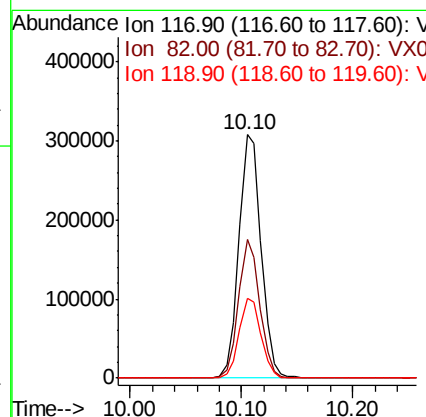
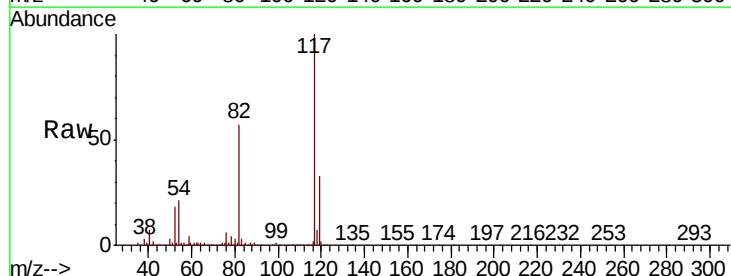
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-20200310DL

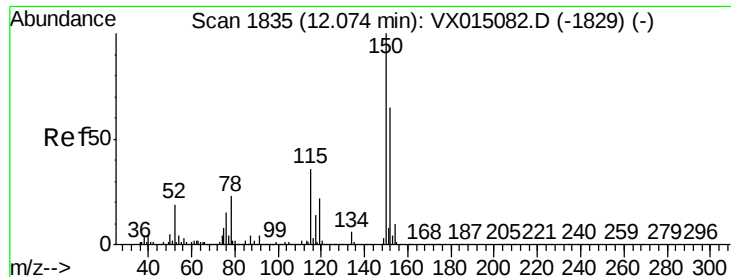
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.5	0.0	177.6
176	87.1	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.0	43.3	64.9
119	32.8	25.8	38.8



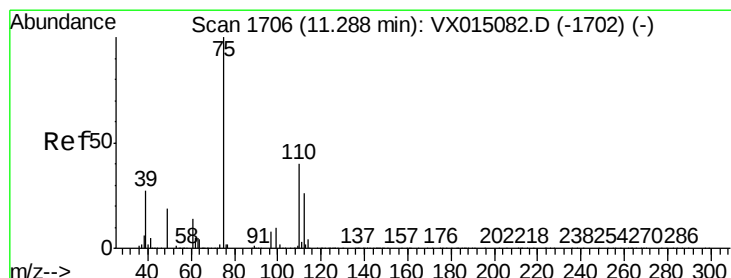
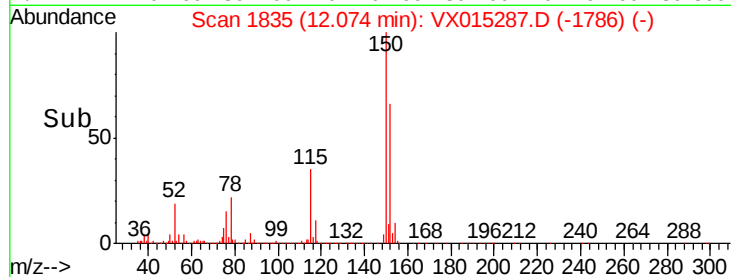
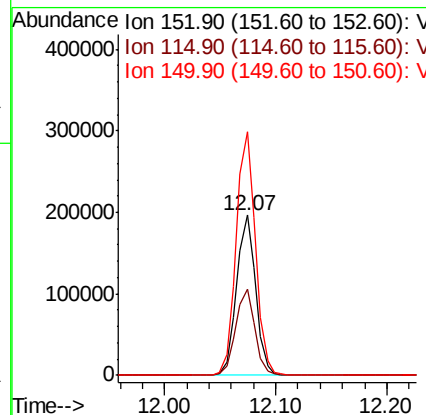
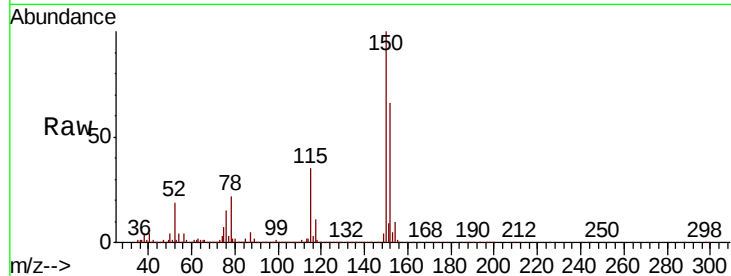


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

Instrument :
MSVOA_X
ClientSampleId :
TT101D1-20200310DL

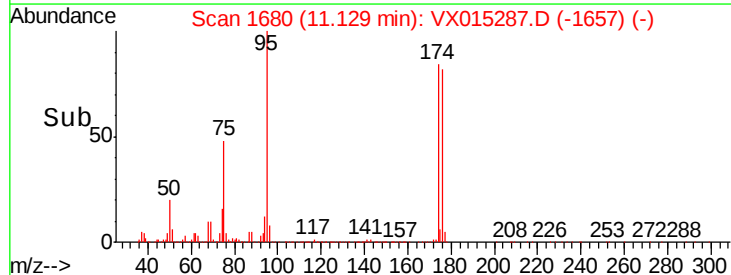
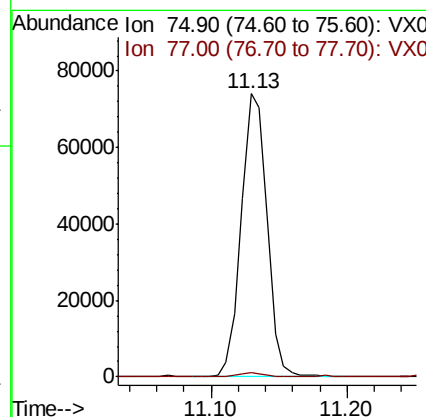
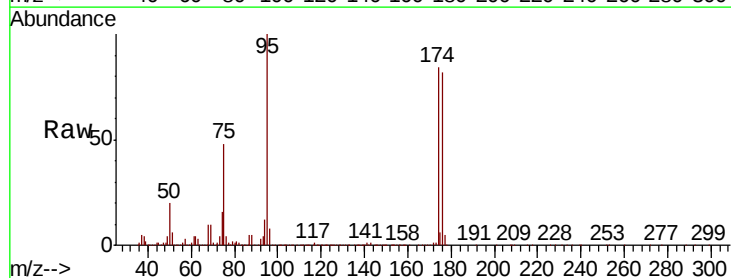
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.4	38.2	114.6
150	153.7	0.0	343.8

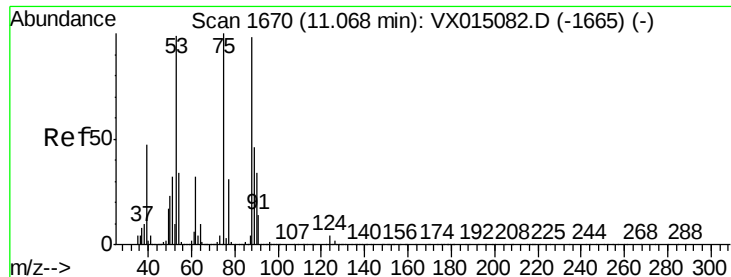


#76

1,2,3-Trichloropropane
Concen: 21.032 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX015287.D
Acq: 16 Mar 2020 12:34

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	22.6	67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 59.690 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-20200310DL

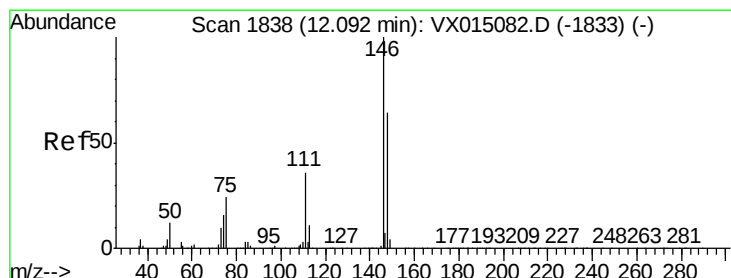
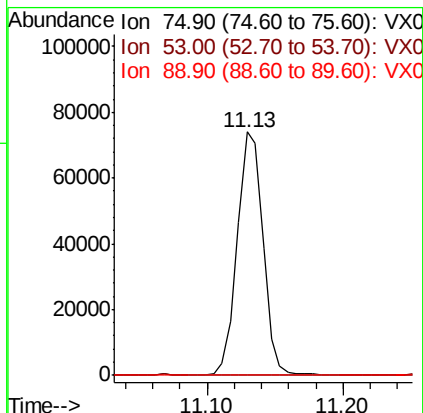
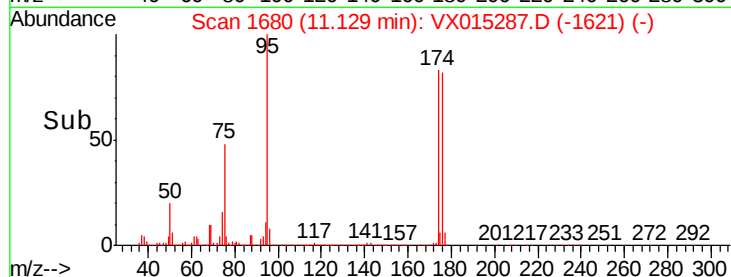
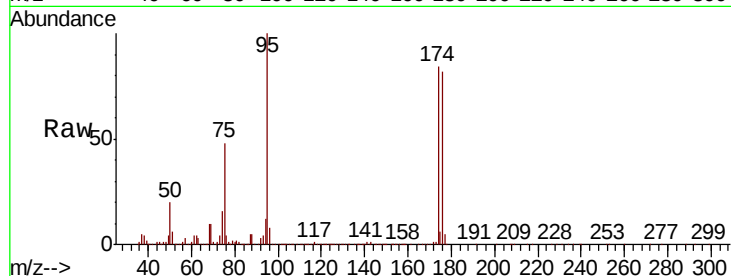
Tot Ion: 75 Resp: 97501

Ion Ratio Lower Upper

75 100

53 0.1 77.9 116.9#

89 0.3 36.2 54.2#



#88

1,4-Dichlorobenzene

Concen: 0.203 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX015287.D

Acq: 16 Mar 2020 12:34

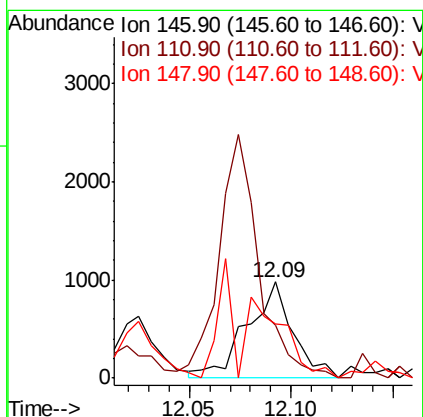
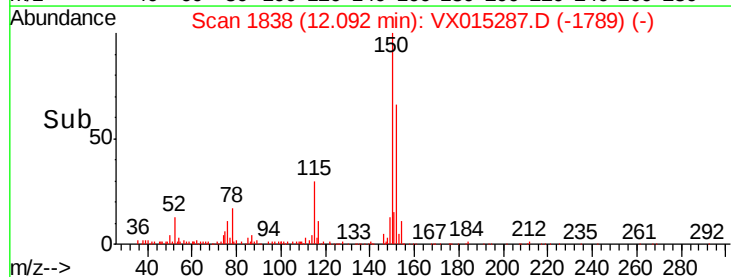
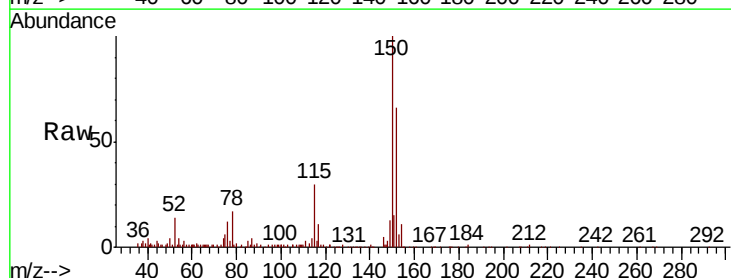
Tgt Ion: 146 Resp: 1527

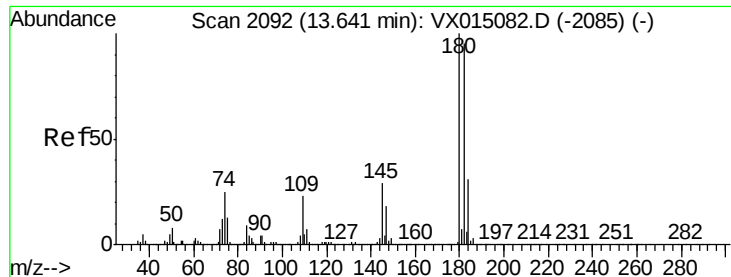
Ion Ratio Lower Upper

146 100

111 218.9 18.7 56.1#

148 69.4 32.5 97.4

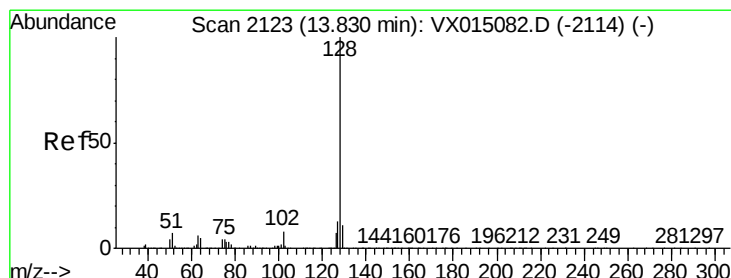
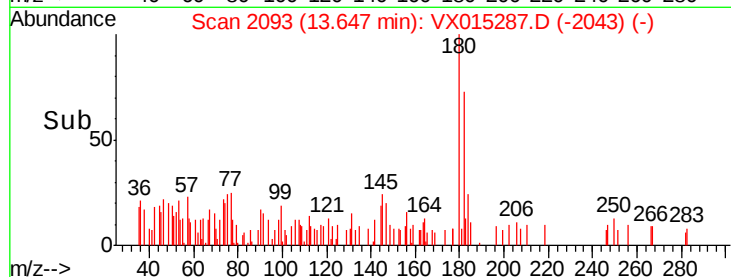
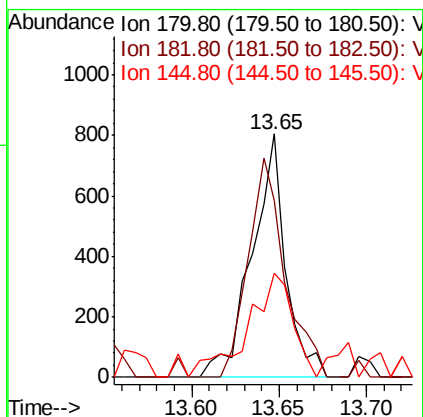
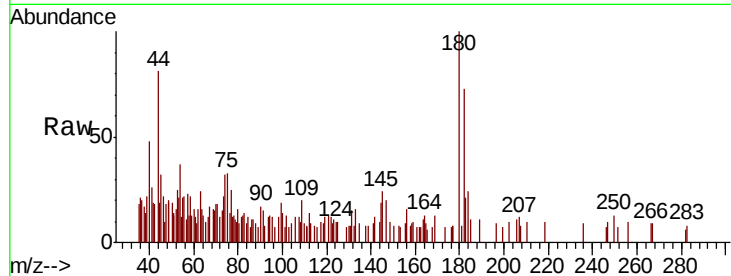




#93
 1,2,4-Trichlorobenzene
 Concen: 0.218 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX015287.D
 Acq: 16 Mar 2020 12:34

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D1-20200310DL

Tot Ion:180 Resp: 1092
 Ion Ratio Lower Upper
 180 100
 182 97.4 47.6 142.8
 145 56.7 14.1 42.2#



#95
 Naphthalene
 Concen: 1.507 ug/l
 RT: 13.84 min Scan# 2124
 Delta R.T. 0.01 min
 Lab File: VX015287.D
 Acq: 16 Mar 2020 12:34

Tgt Ion:128 Resp: 1383
 Ion Ratio Lower Upper
 128 100
 127 14.5 10.3 15.5
 129 18.1 8.6 13.0#

