

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX022720\
 Data File : VX015042.D
 Acq On : 27 Feb 2020 12:59
 Operator : JC/SP
 Sample : L1683-18DL 40X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-02-20200225DL

Quant Time: Feb 27 15:49:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	411599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	656982	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	631731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	320765	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	237335	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
35) Dibromofluoromethane	5.49	113	198815	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	8.71	98	788801	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	11.13	95	283347	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	

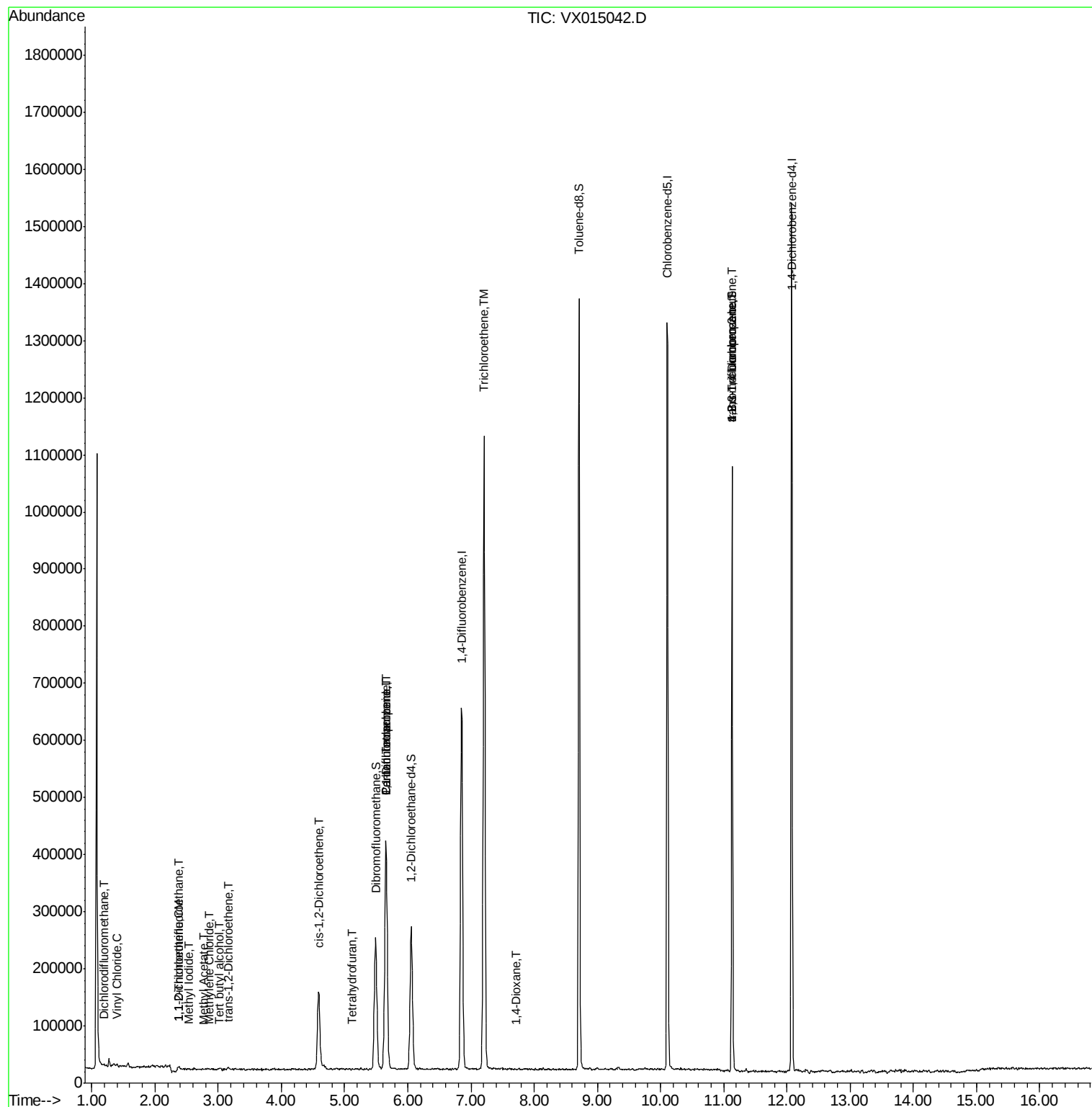
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1081	0.28	ug/l	84
4) Vinyl Chloride	1.41	62	1243	0.26	ug/l #	72
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1154	0.30	ug/l #	81
10) Methyl Iodide	2.53	142	1088	4.60	ug/l #	44
11) Tert butyl alcohol	3.02	59	625	0.76	ug/l #	58
12) 1,1-Dichloroethene	2.37	96	2237	0.59	ug/l #	88
16) Acetone	2.43	43	1653	Below Cal	#	81
18) Methyl Acetate	2.76	43	1025	0.22	ug/l #	76
20) Methylene Chloride	2.84	84	1438	0.32	ug/l #	41
21) trans-1,2-Dichloroethene	3.16	96	2031	0.49	ug/l	85
27) cis-1,2-Dichloroethene	4.59	96	90295	19.40	ug/l	89
29) Tetrahydrofuran	5.13	42	781	0.43	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	28410	4.83	ug/l #	52
38) Carbon Tetrachloride	5.65	117	37020	6.46	ug/l #	17
44) Trichloroethene	7.21	130	440464	86.41	ug/l	96
49) 1,4-Dioxane	7.72	88	171	1.84	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	133466	23.01	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	133466	58.90	ug/l #	12

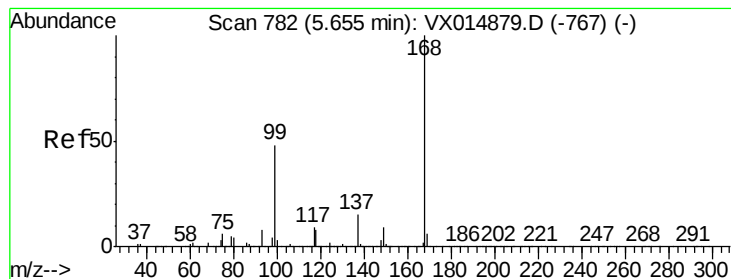
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

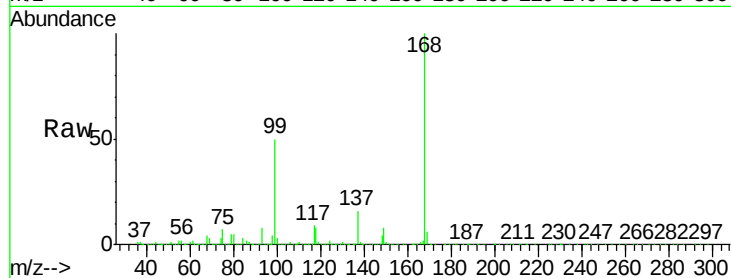
DUP-02-20200225DL

Tgt Ion:168 Resp: 411599

Ion Ratio Lower Upper

168 100

99 49.9 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

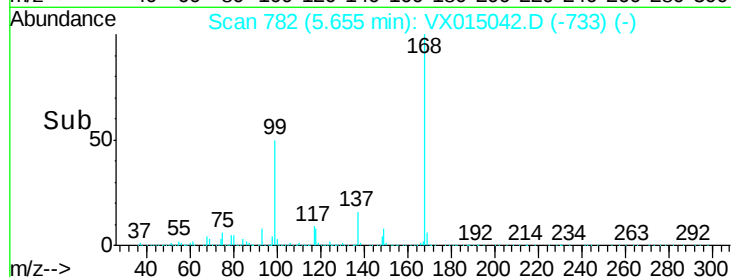
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100000

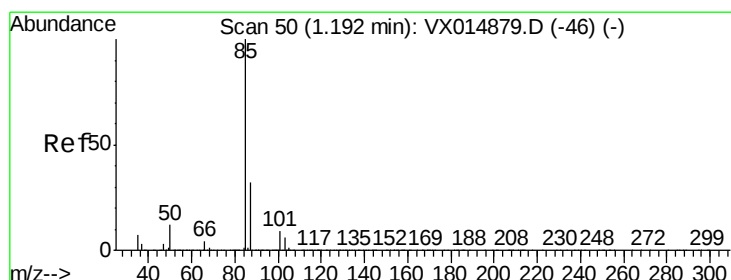
50000

0

5.50 5.60 5.70 5.80



Time-->



#2

Dichlorodifluoromethane

Concen: 0.28 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015042.D

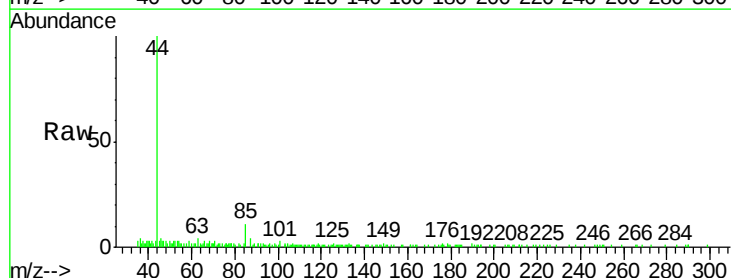
Acq: 27 Feb 2020 12:59

Tgt Ion: 85 Resp: 1081

Ion Ratio Lower Upper

85 100

87 23.1 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1000

800

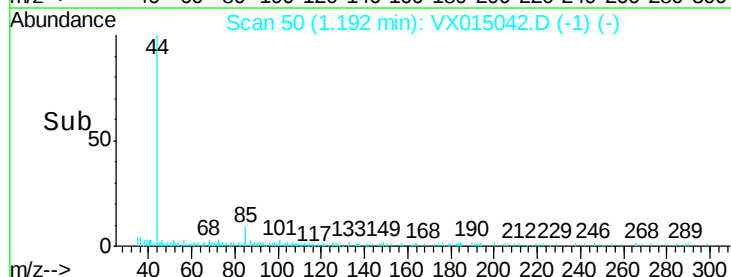
600

400

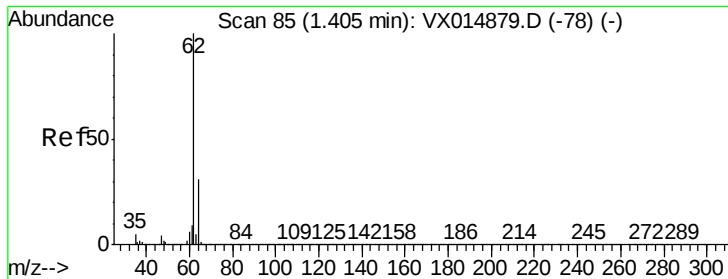
200

0

1.15 1.20 1.25



Time-->



#4

Vinyl Chloride

Concen: 0.26 ug/l

RT: 1.41 min Scan# 85

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

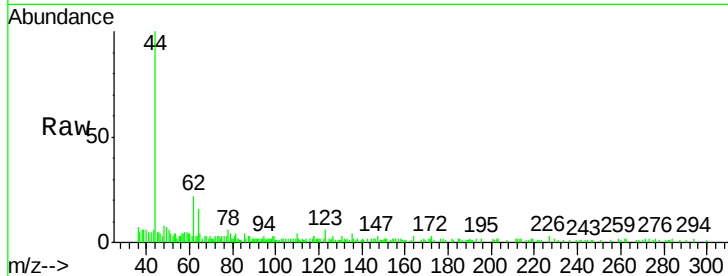
DUP-02-20200225DL

Tgt Ion: 62 Resp: 1243

Ion Ratio Lower Upper

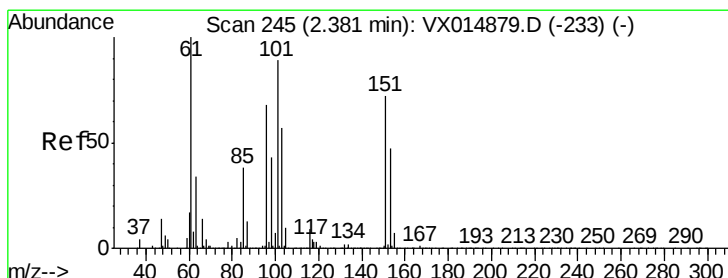
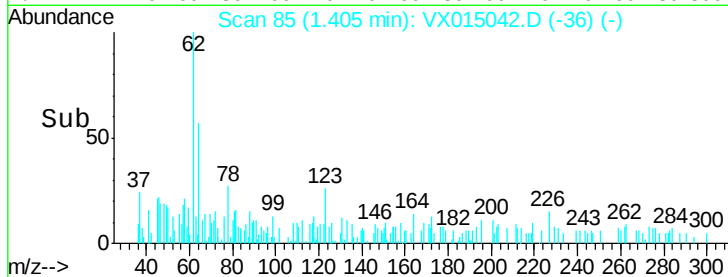
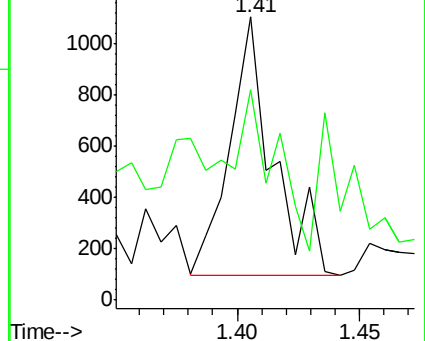
62 100

64 46.6 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.30 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

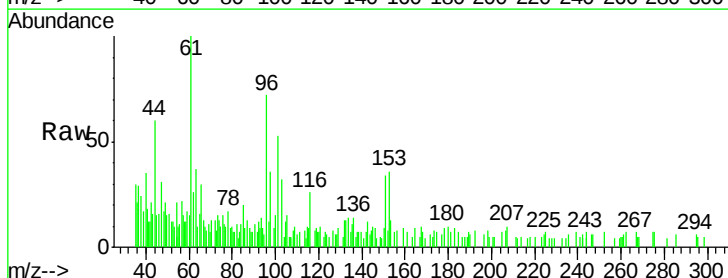
Tgt Ion: 101 Resp: 1154

Ion Ratio Lower Upper

101 100

85 56.4 34.1 51.1#

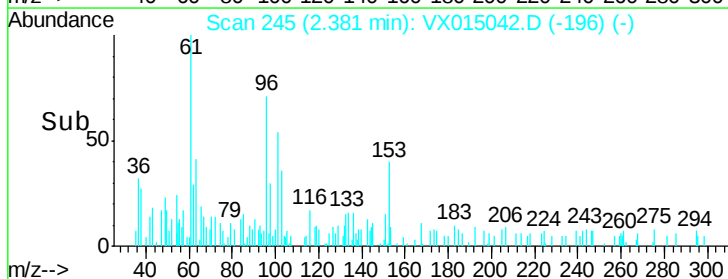
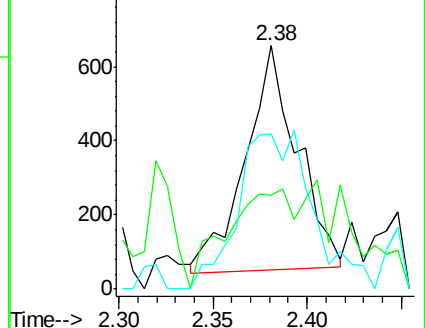
151 100.0 67.3 100.9

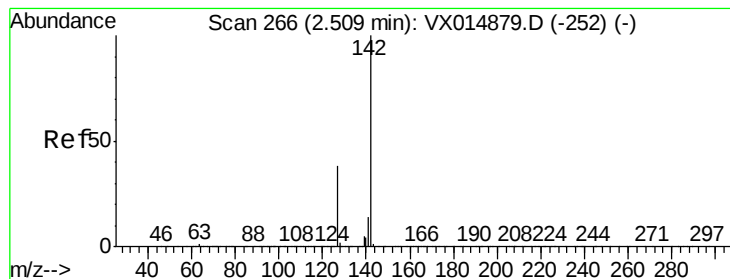


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





#10

Methyl Iodide

Concen: 4.60 ug/l

RT: 2.53 min Scan# 270

Delta R.T. 0.03 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

DUP-02-20200225DL

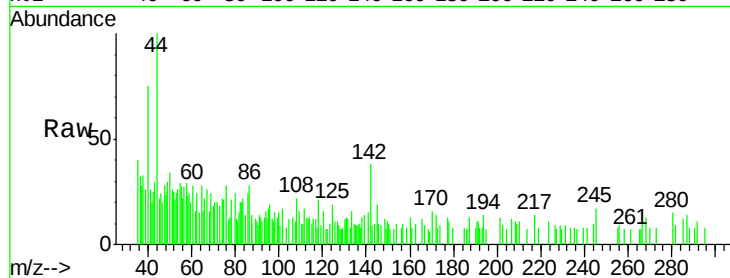
Tgt Ion: 142 Resp: 1088

Ion Ratio Lower Upper

142 100

127 0.0 31.1 46.7#

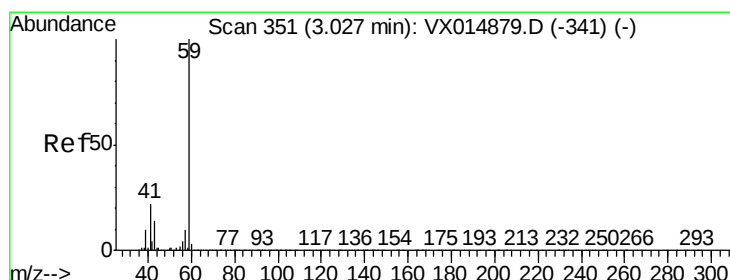
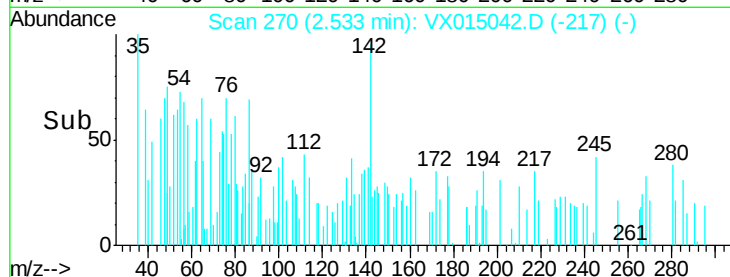
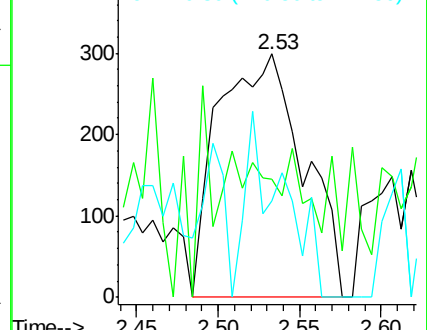
141 0.0 11.3 16.9#



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: 0.76 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX015042.D

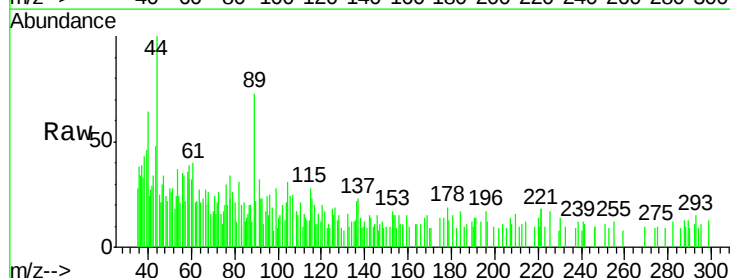
Acq: 27 Feb 2020 12:59

Tgt Ion: 59 Resp: 625

Ion Ratio Lower Upper

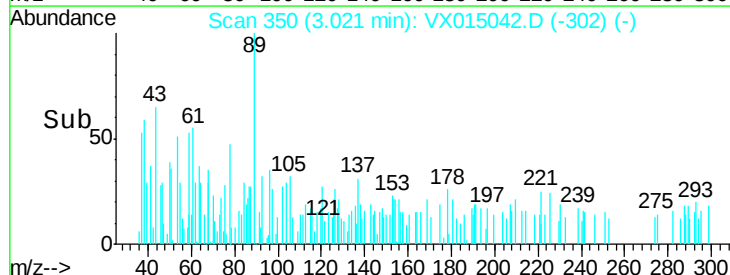
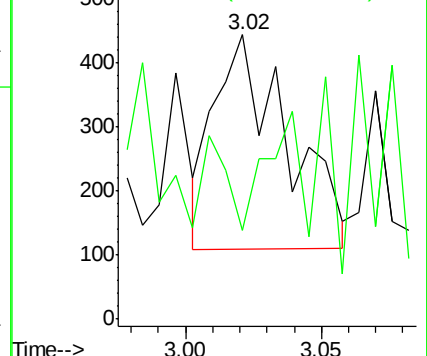
59 100

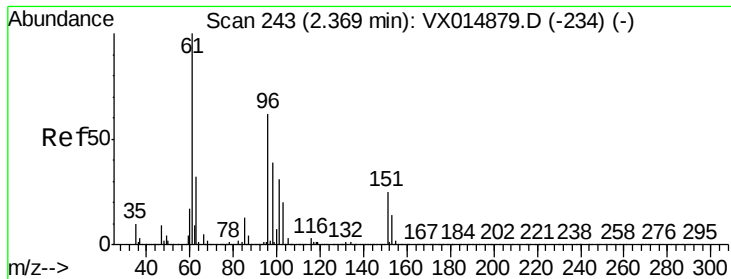
57 25.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

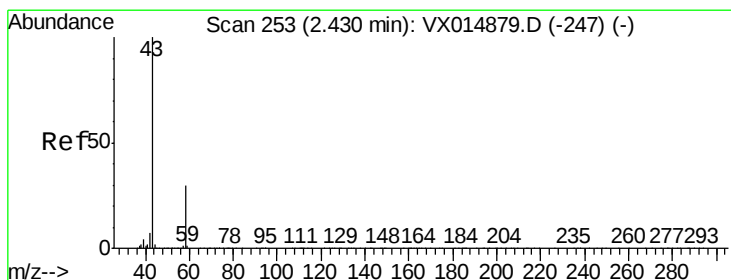
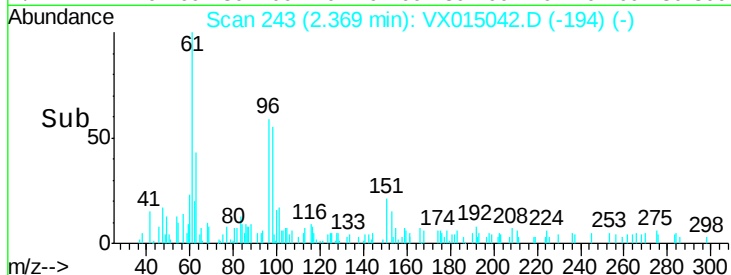
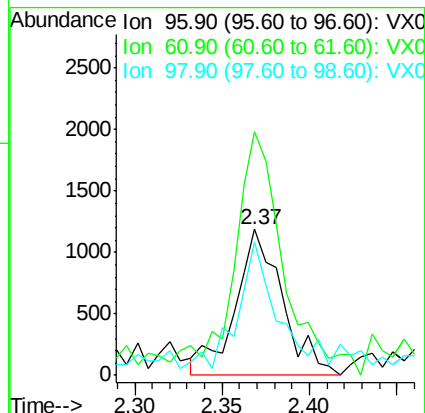
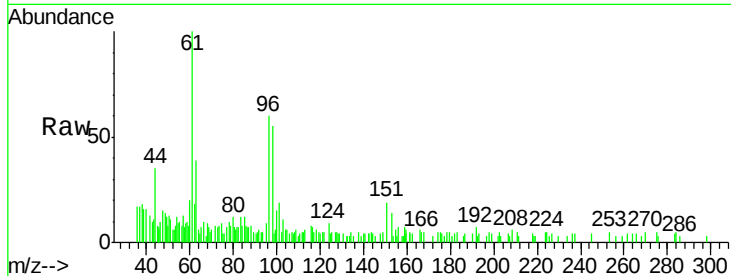




#12
 1,1-Dichloroethene
 Concen: 0.59 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.00 min
 Lab File: VX015042.D
 Acq: 27 Feb 2020 12:59

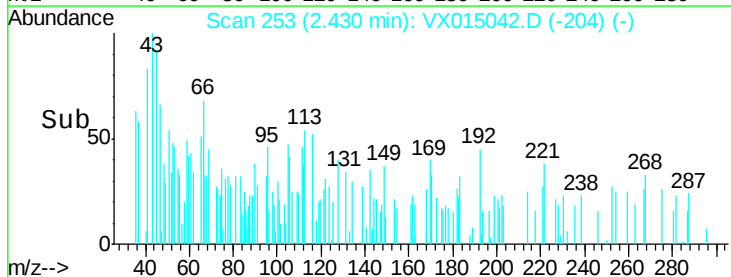
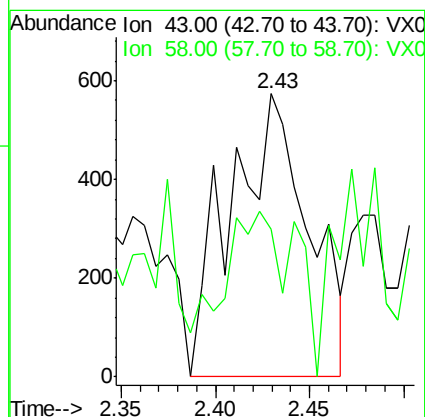
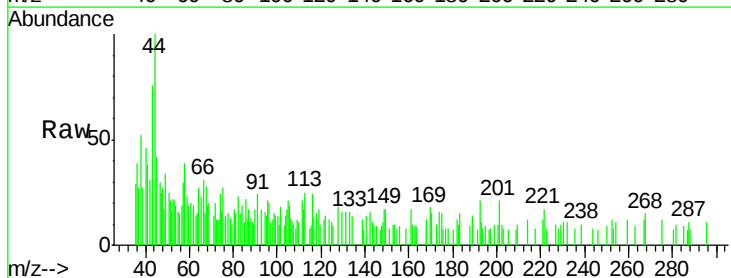
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-02-20200225DL

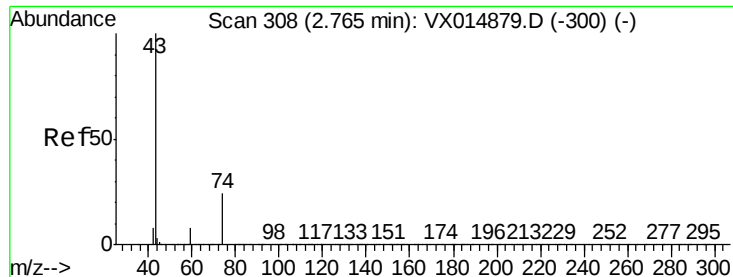
Tgt Ion: 96 Resp: 2237
 Ion Ratio Lower Upper
 96 100
 61 152.5 129.5 194.3
 98 82.5 50.6 76.0#



#16
 Acetone
 Concen: Below Cal
 RT: 2.43 min Scan# 253
 Delta R.T. 0.00 min
 Lab File: VX015042.D
 Acq: 27 Feb 2020 12:59

Tgt Ion: 43 Resp: 1653
 Ion Ratio Lower Upper
 43 100
 58 40.5 24.1 36.1#

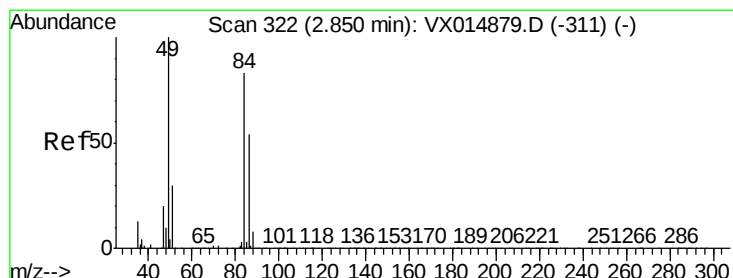
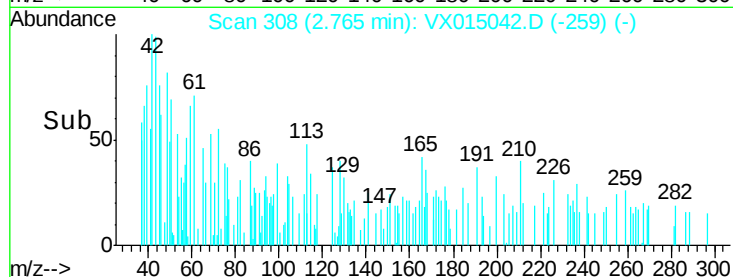
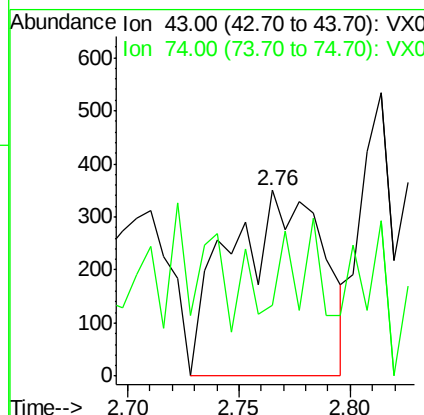
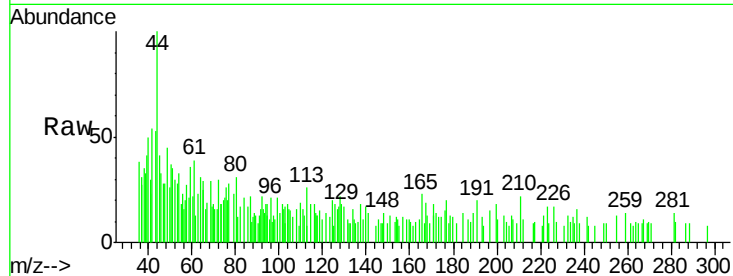




#18
Methyl Acetate
Concen: 0.22 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX015042.D
Acq: 27 Feb 2020 12:59

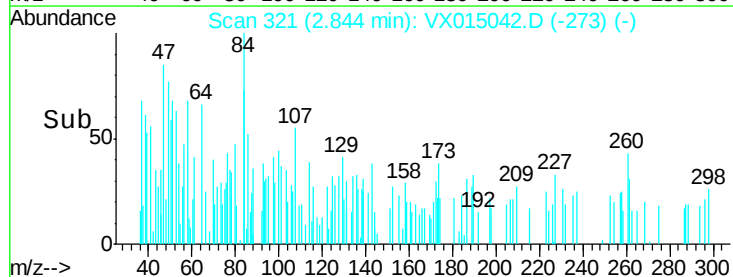
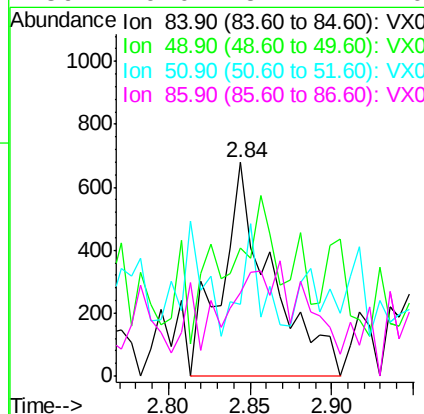
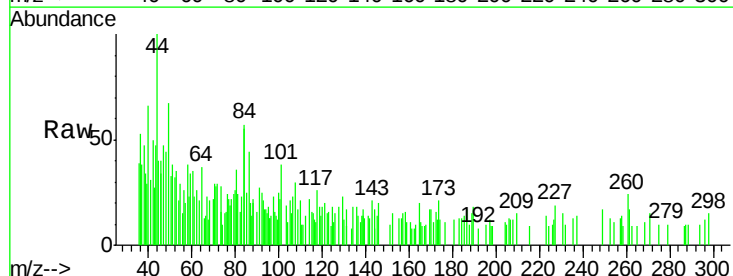
Instrument :
MSVOA_X
ClientSampleId :
DUP-02-20200225DL

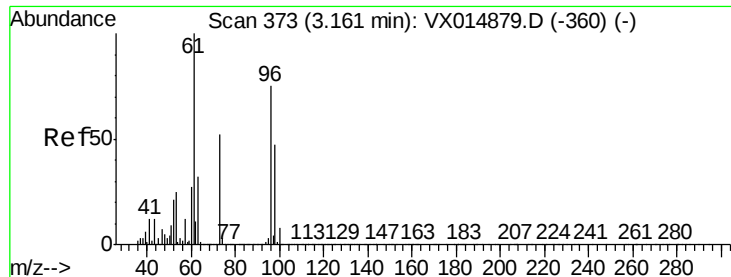
Tgt Ion: 43 Resp: 1025
Ion Ratio Lower Upper
43 100
74 12.4 19.4 29.0#



#20
Methylene Chloride
Concen: 0.32 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX015042.D
Acq: 27 Feb 2020 12:59

Tgt Ion: 84 Resp: 1438
Ion Ratio Lower Upper
84 100
49 44.6 95.6 143.4#
51 4.1 29.0 43.6#
86 29.0 51.4 77.0#





#21

trans-1,2-Dichloroethene

Concen: 0.49 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

DUP-02-20200225DL

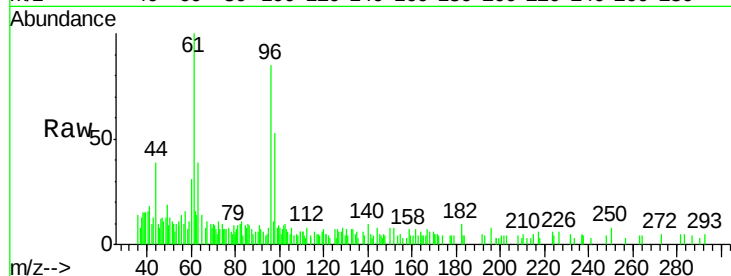
Tgt Ion: 96 Resp: 2031

Ion Ratio Lower Upper

96 100

61 110.6 106.9 160.3

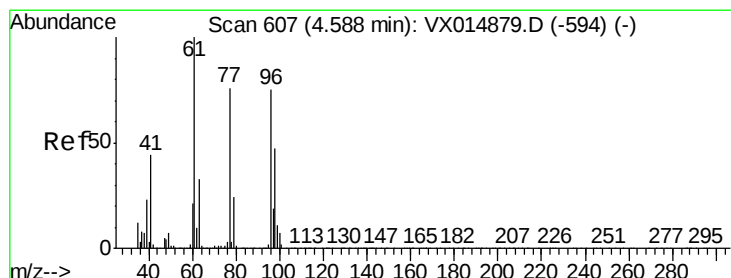
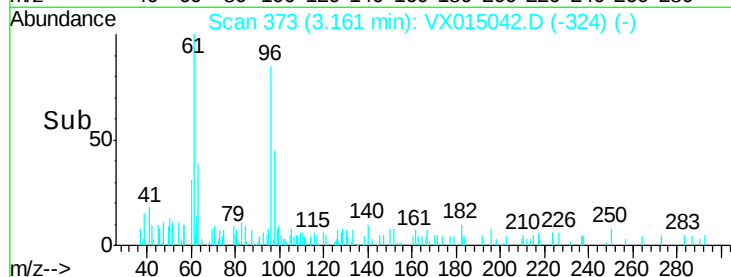
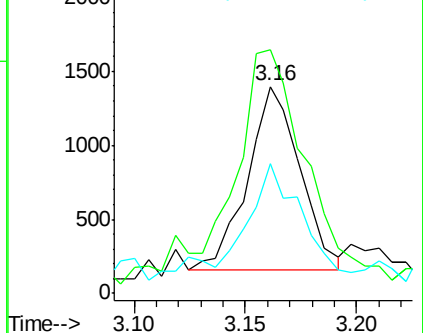
98 58.0 50.7 76.1



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



#27

cis-1,2-Dichloroethene

Concen: 19.40 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

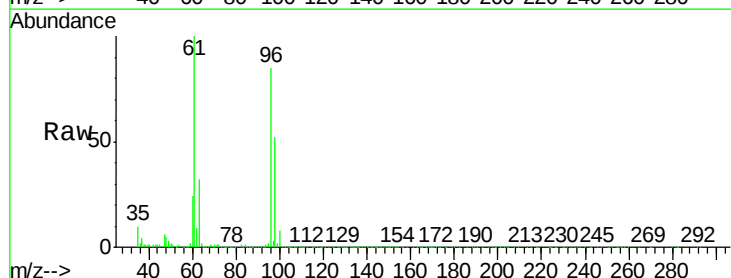
Tgt Ion: 96 Resp: 90295

Ion Ratio Lower Upper

96 100

61 124.8 0.0 286.2

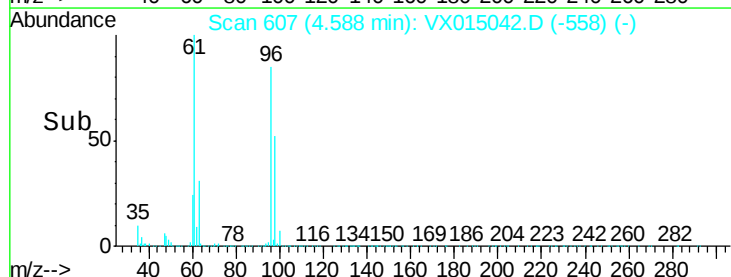
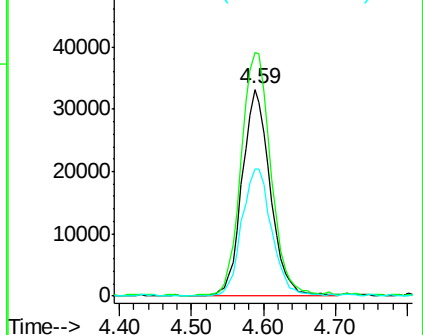
98 64.2 0.0 131.0

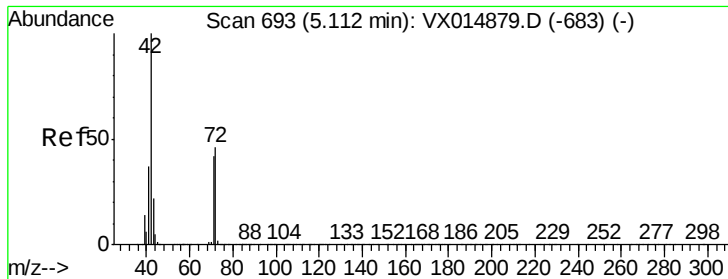


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

DUP-02-20200225DL

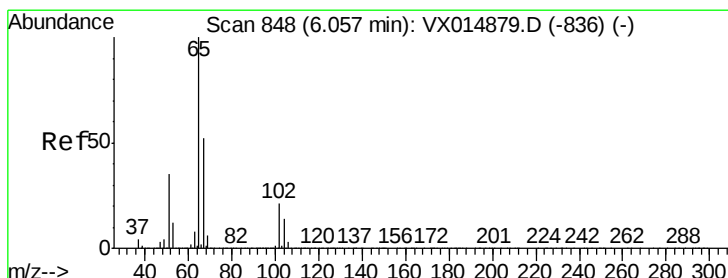
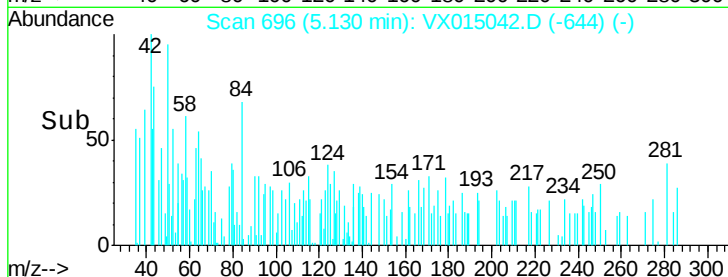
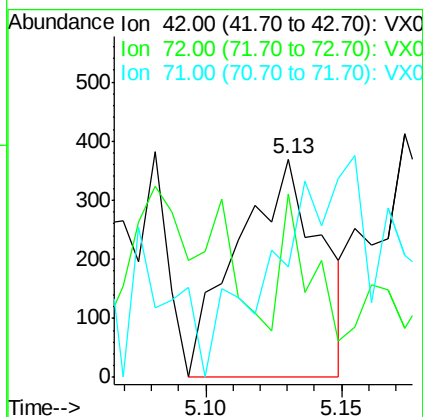
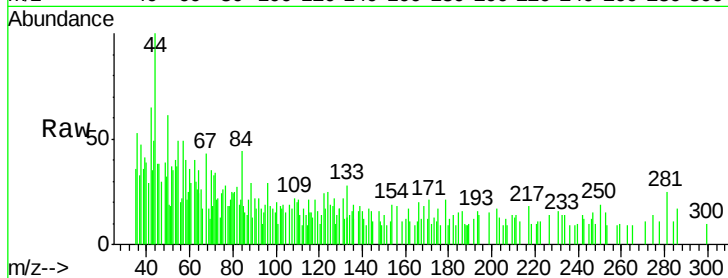
Tgt Ion: 42 Resp: 781

Ion Ratio Lower Upper

42 100

72 22.0 36.9 55.3#

71 0.0 34.1 51.1#



#33

1,2-Dichloroethane-d4

Concen: 51.09 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.00 min

Lab File: VX015042.D

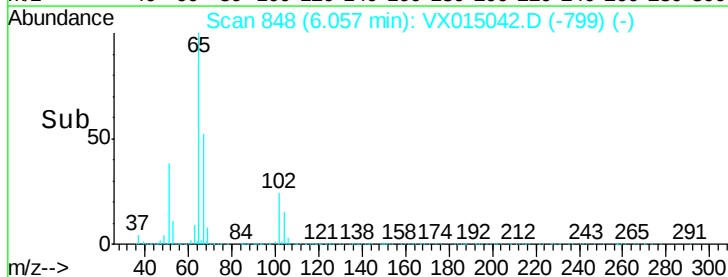
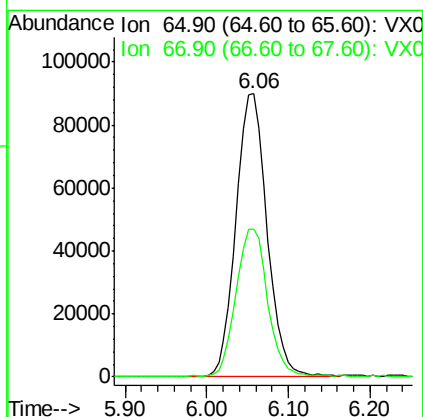
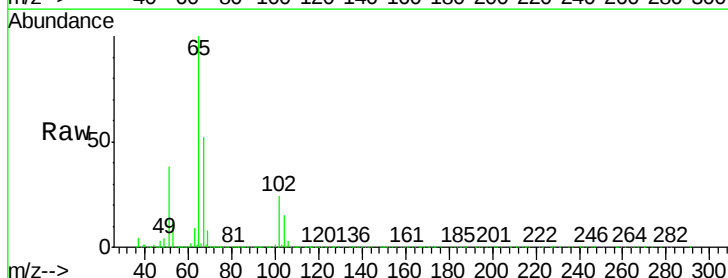
Acq: 27 Feb 2020 12:59

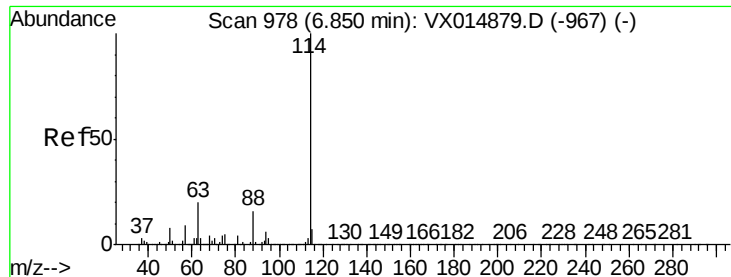
Tgt Ion: 65 Resp: 237335

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

DUP-02-20200225DL

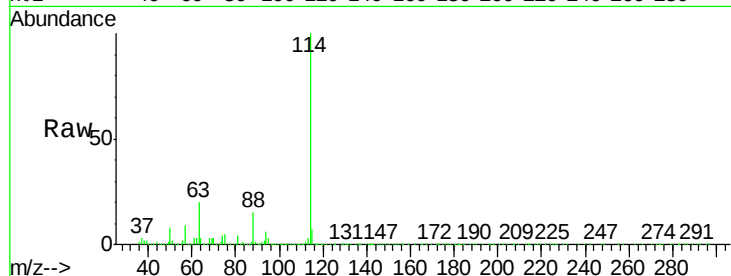
Tgt Ion:114 Resp: 656982

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.2

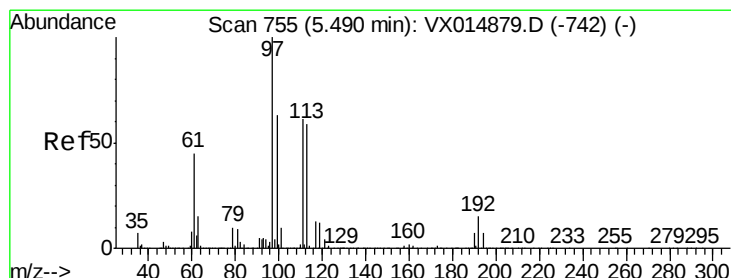
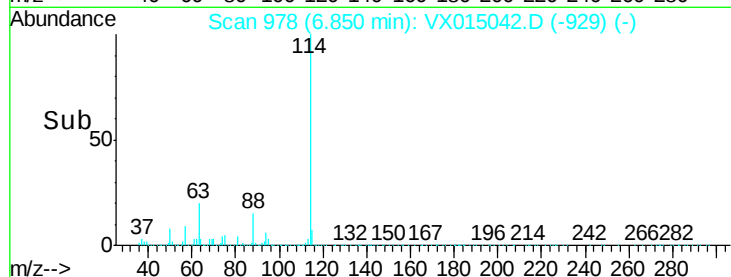
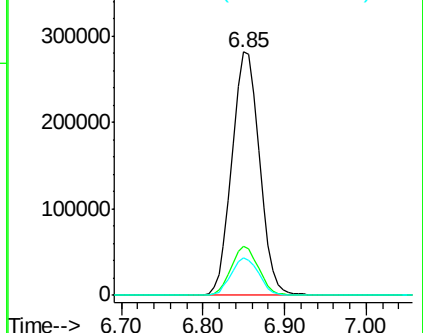
88 15.3 0.0 32.0



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: 49.22 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

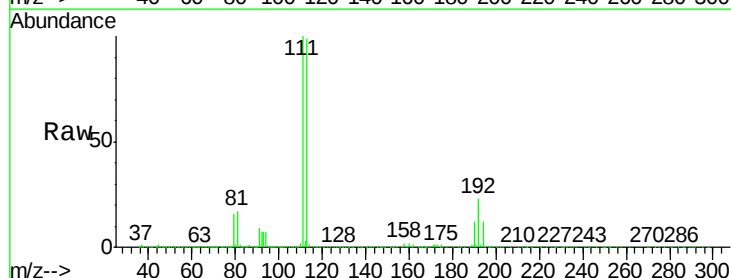
Tgt Ion:113 Resp: 198815

Ion Ratio Lower Upper

113 100

111 102.2 82.4 123.6

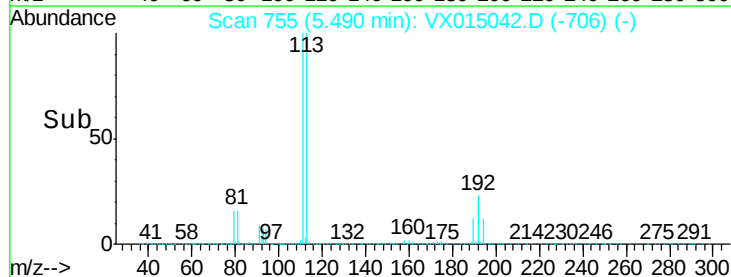
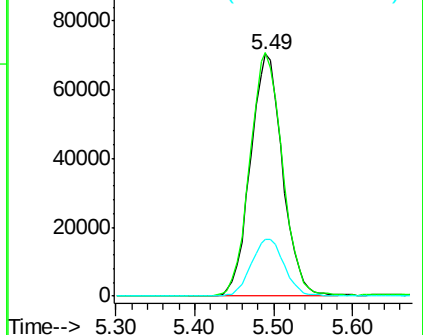
192 24.4 19.1 28.7

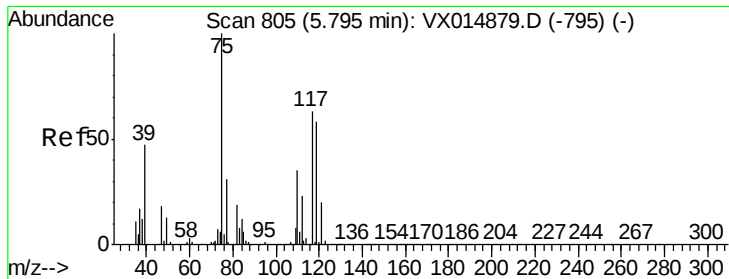


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

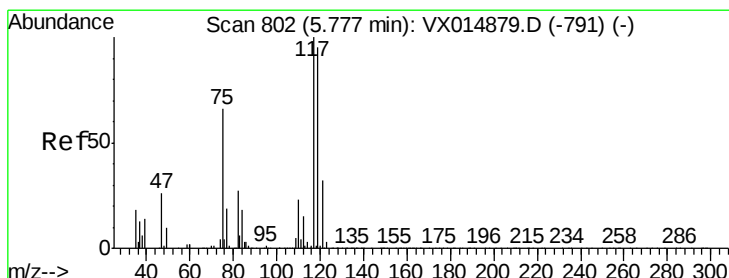
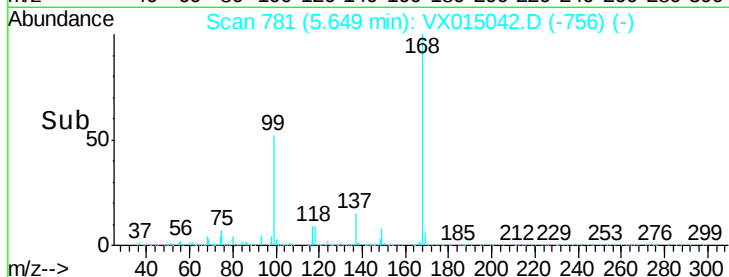
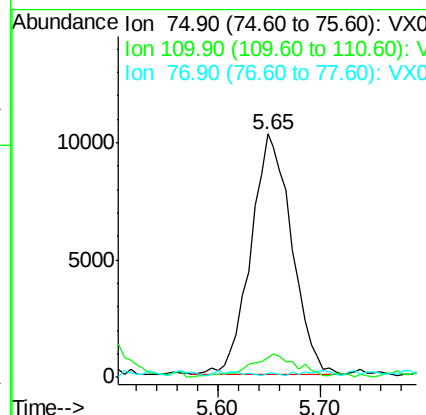
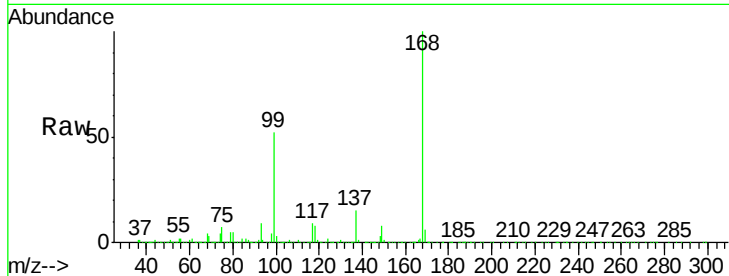




#36
 1,1-Dichloropropene
 Concen: 4.83 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015042.D
 Acq: 27 Feb 2020 12:59

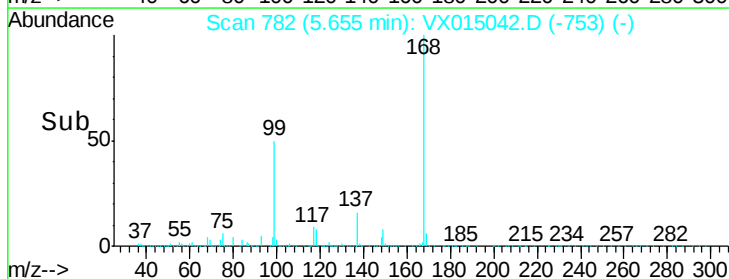
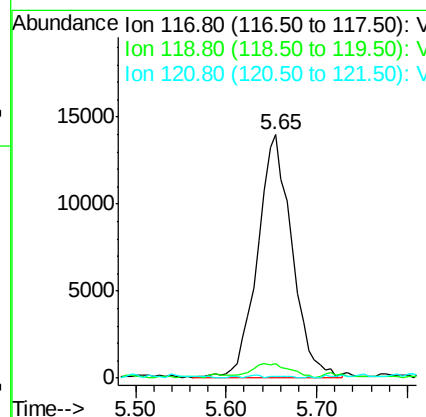
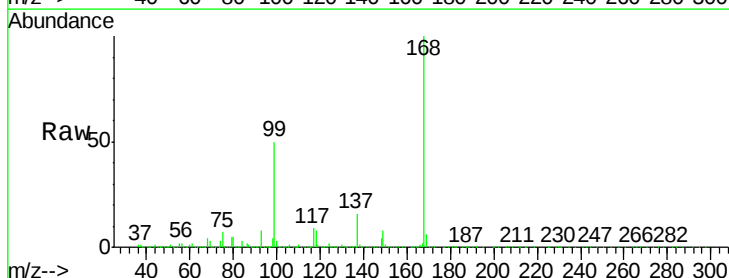
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-02-20200225DL

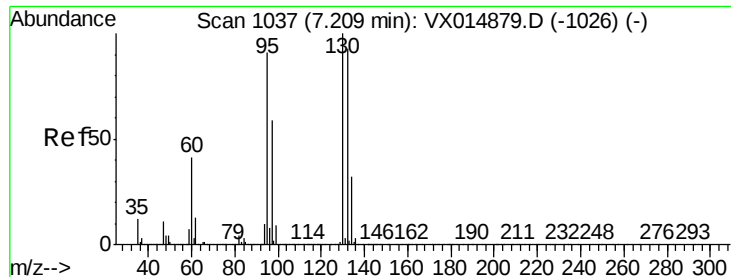
Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	18.3	54.8#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.46 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015042.D
 Acq: 27 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.0	114.0#
121	0.2	25.4	38.2#





#44

Trichloroethene

Concen: 86.41 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

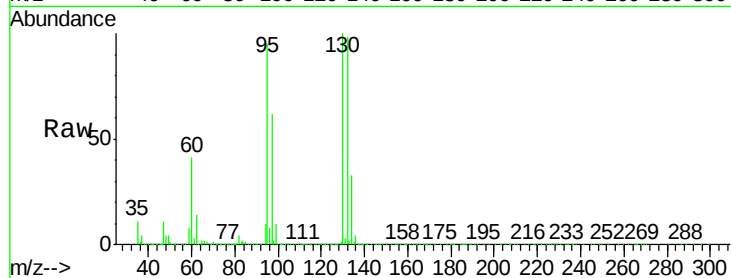
DUP-02-20200225DL

Tgt Ion:130 Resp: 440464

Ion Ratio Lower Upper

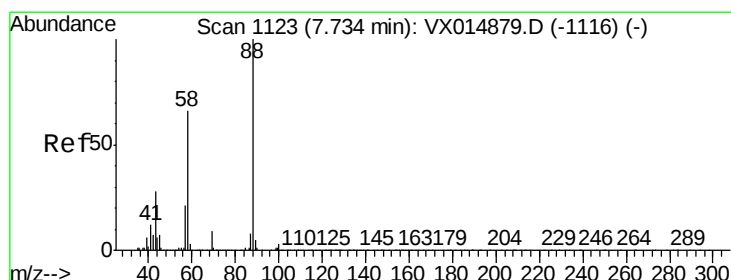
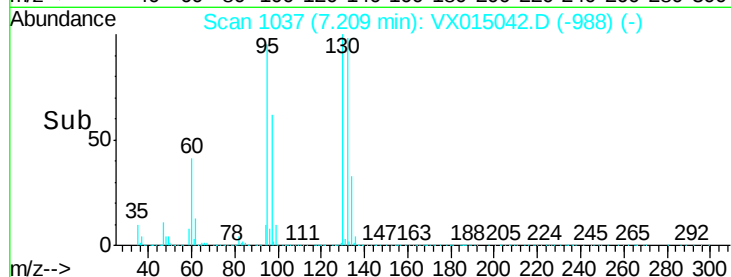
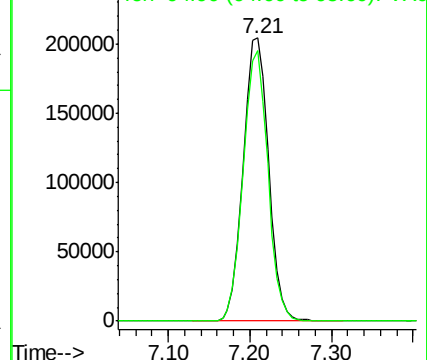
130 100

95 95.5 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.84 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

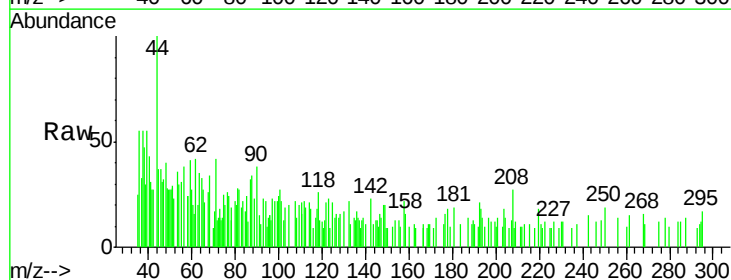
Tgt Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 188.9 27.0 40.4#

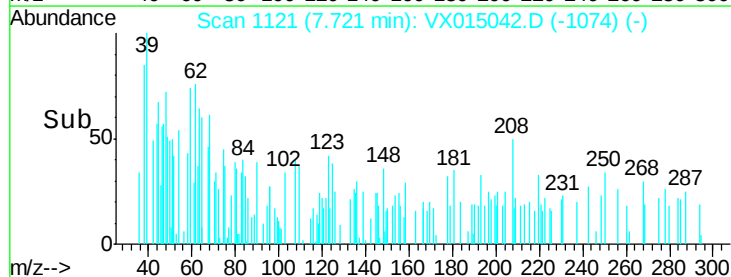
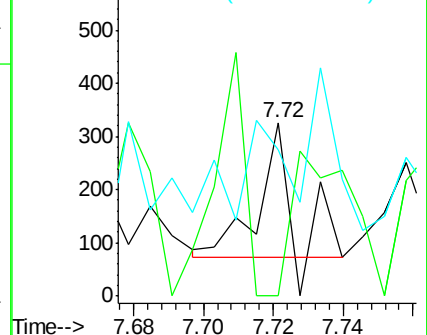
58 94.7 53.2 79.8#

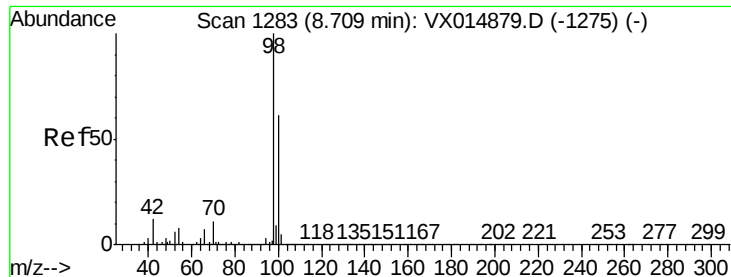


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.16 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

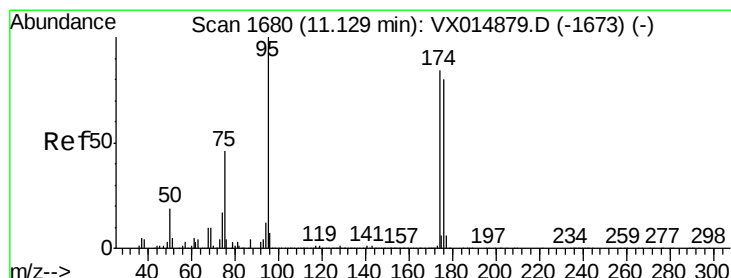
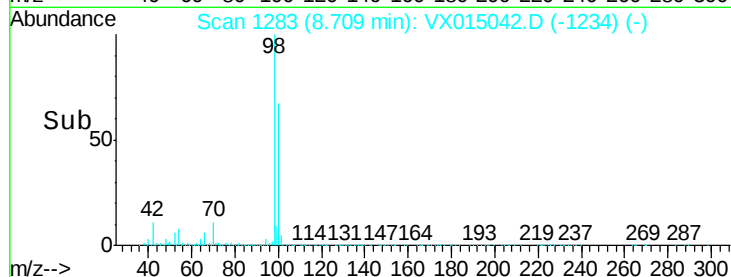
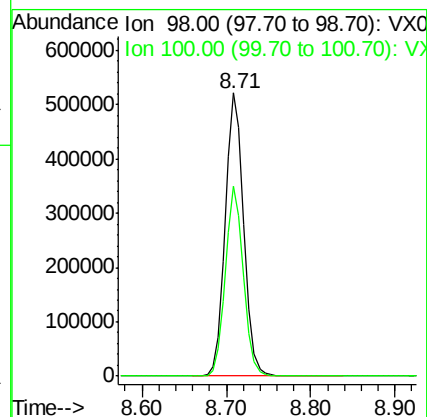
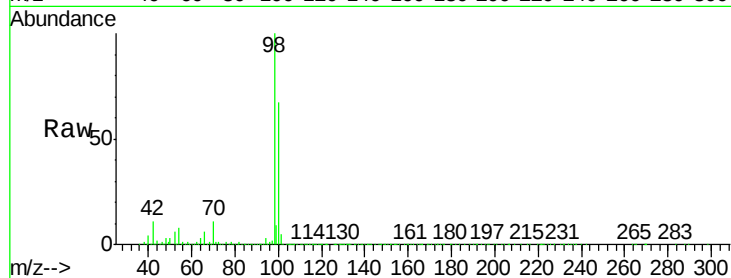
DUP-02-20200225DL

Tgt Ion: 98 Resp: 788801

Ion Ratio Lower Upper

98 100

100 65.7 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 51.02 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

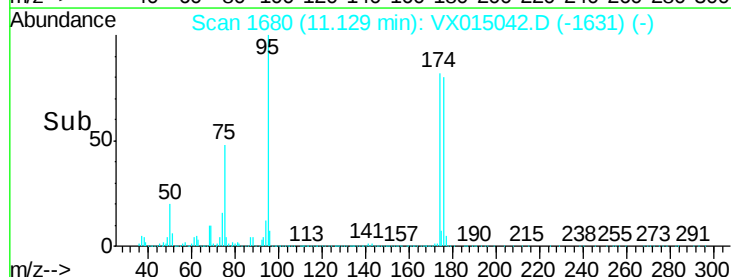
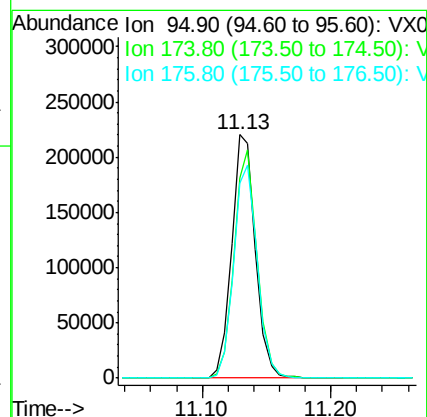
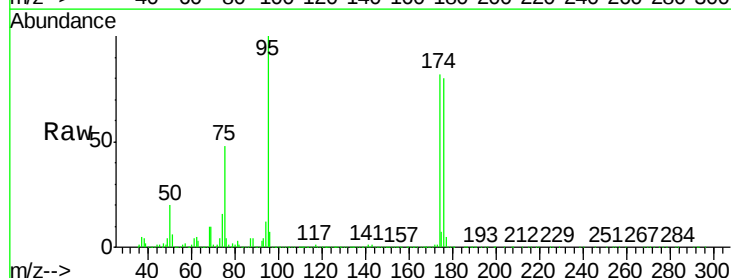
Tgt Ion: 95 Resp: 283347

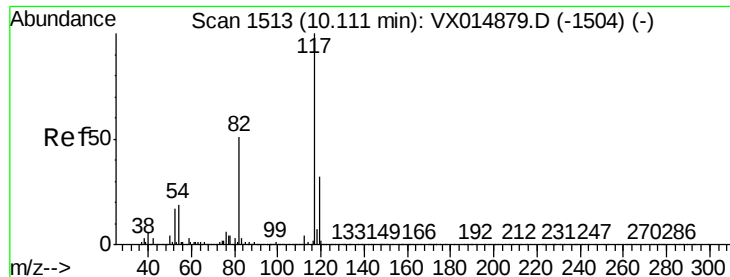
Ion Ratio Lower Upper

95 100

174 91.3 0.0 183.0

176 87.9 0.0 178.0

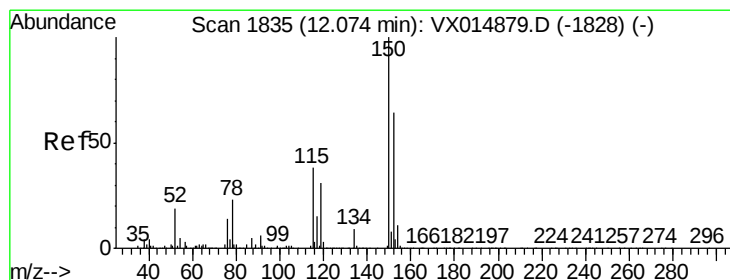
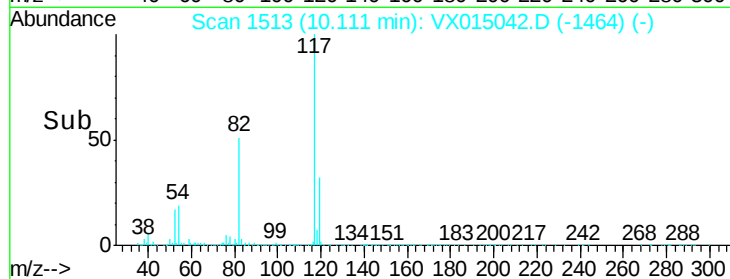
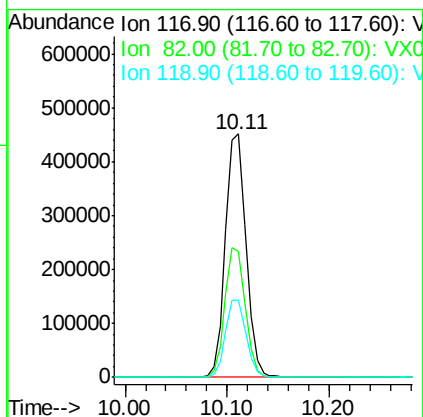
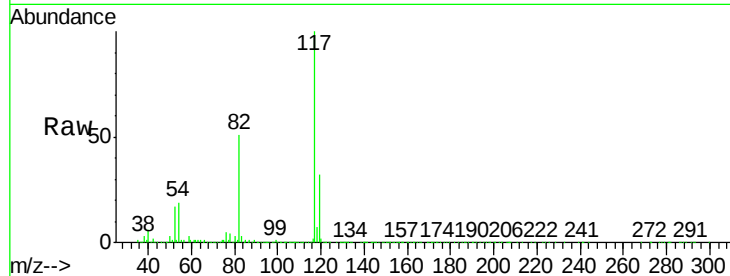




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015042.D
Acq: 27 Feb 2020 12:59

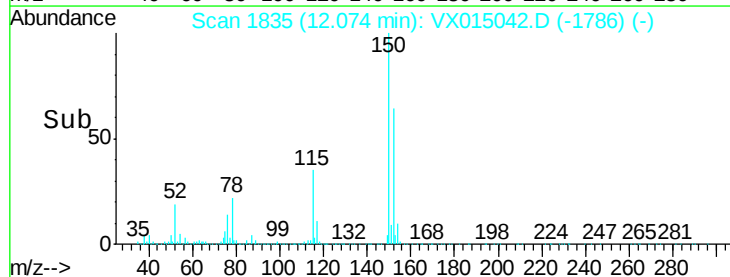
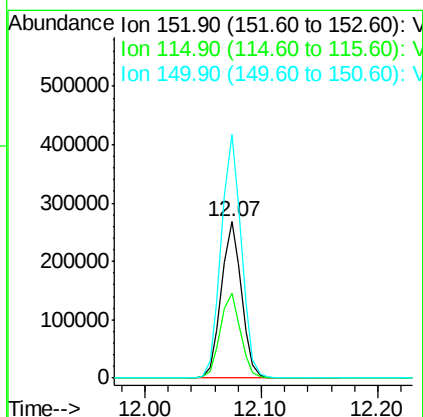
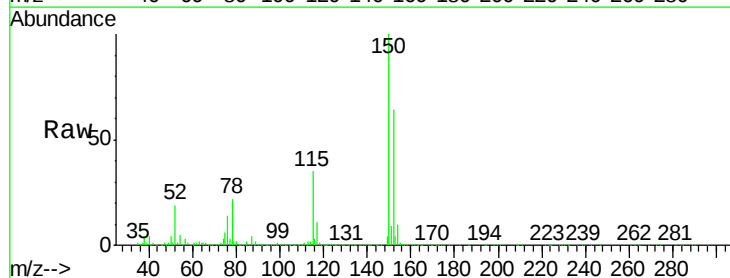
Instrument :
MSVOA_X
ClientSampleId :
DUP-02-20200225DL

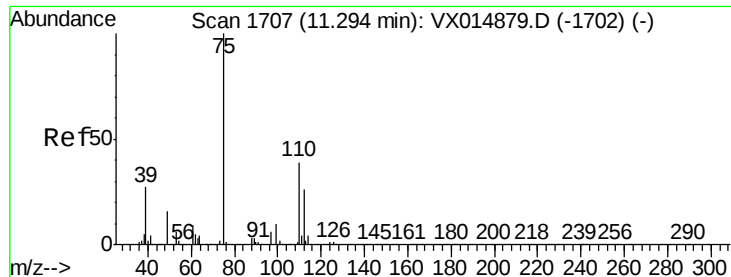
Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.4	40.5	60.7
119	31.9	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX015042.D
Acq: 27 Feb 2020 12:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	38.6	116.0
150	155.0	0.0	349.0





#76

1,2,3-Trichloropropane

Concen: 23.01 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

Instrument :

MSVOA_X

ClientSampleId :

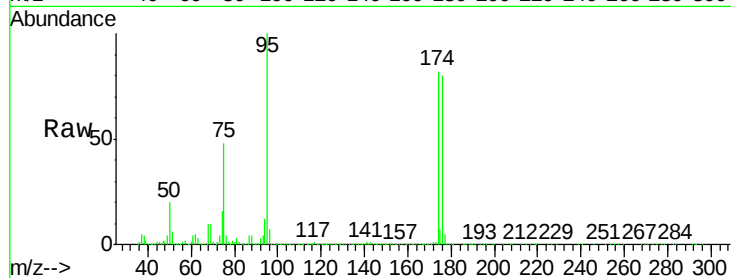
DUP-02-20200225DL

Tgt Ion: 75 Resp: 133466

Ion Ratio Lower Upper

75 100

77 1.6 18.4 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

120000

100000

80000

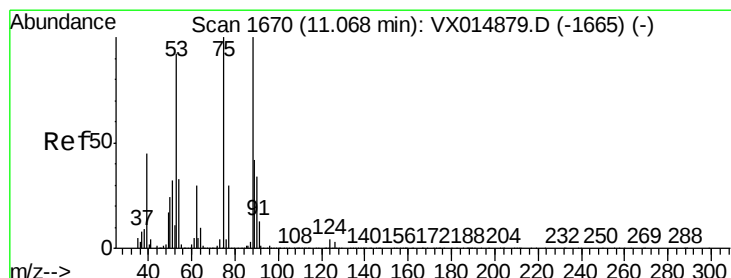
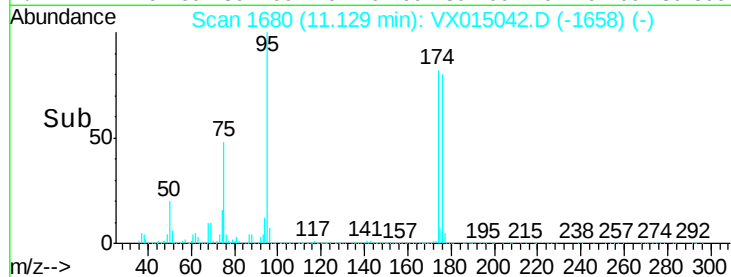
60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 58.90 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015042.D

Acq: 27 Feb 2020 12:59

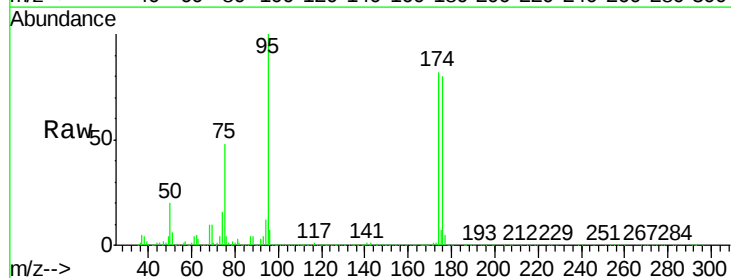
Tgt Ion: 75 Resp: 133466

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.1 35.8 53.6#



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

11.13

100000

50000

0

Time--> 11.05 11.10 11.15 11.20

