

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041020\
 Data File : VX015613.D
 Acq On : 10 Apr 2020 12:10
 Operator : JC/SP
 Sample : VX0410WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0410WBL01

Quant Time: Apr 11 00:29:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1155460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1822382	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1702158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	896961	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	743308	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	
35) Dibromofluoromethane	5.47	113	565602	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	8.70	98	2178900	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	11.12	95	919939	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	

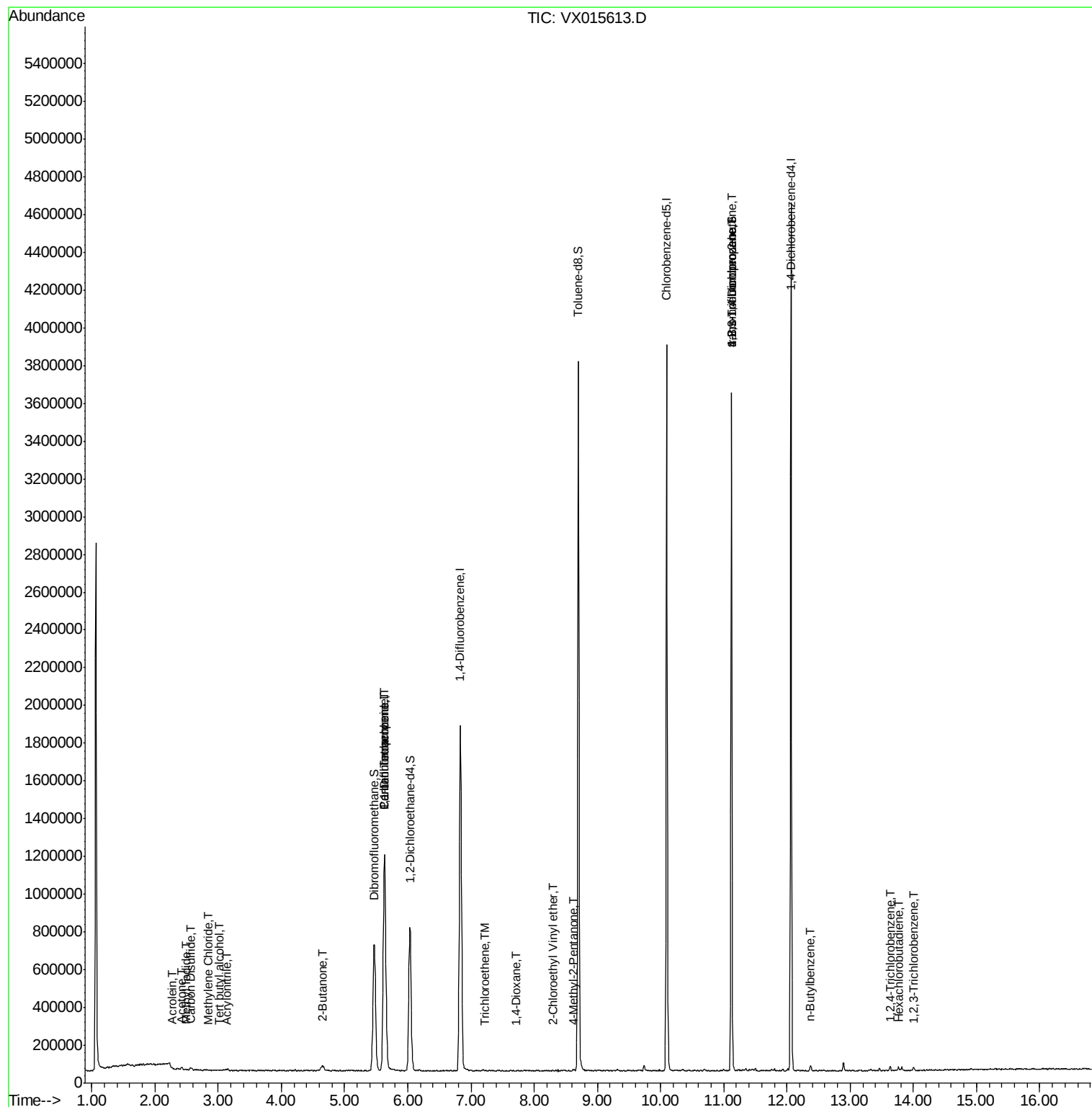
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1014	Below Cal	#	63
10) Methyl Iodide	2.50	142	3974	0.283	ug/l #	44
11) Tert butyl alcohol	3.01	59	1664	0.427	ug/l #	20
13) Acrolein	2.28	56	1374	0.618	ug/l #	14
15) Acrylonitrile	3.14	53	2979	0.400	ug/l #	78
16) Acetone	2.42	43	16969	2.424	ug/l #	79
17) Carbon Disulfide	2.56	76	10655	0.320	ug/l #	83
20) Methylene Chloride	2.84	84	2622	0.200	ug/l #	73
25) 2-Butanone	4.65	43	3756	0.334	ug/l #	97
36) 1,1-Dichloropropene	5.63	75	88845	5.291	ug/l #	52
38) Carbon Tetrachloride	5.63	117	109126	6.000	ug/l #	15
44) Trichloroethene	7.22	130	2850	0.212	ug/l #	29
49) 1,4-Dioxane	7.72	88	179	0.520	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	4957	0.237	ug/l #	97
58) 2-Chloroethyl Vinyl ether	8.30	63	2796	0.263	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	463995	25.155	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	463995	60.359	ug/l #	10
89) n-Butylbenzene	12.37	91	9741	0.205	ug/l #	93
93) 1,2,4-Trichlorobenzene	13.63	180	5900	0.272	ug/l #	94
94) Hexachlorobutadiene	13.77	225	3887	0.376	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.01	180	5537	0.265	ug/l #	95

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

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Quant Time: Apr 11 00:29:57 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

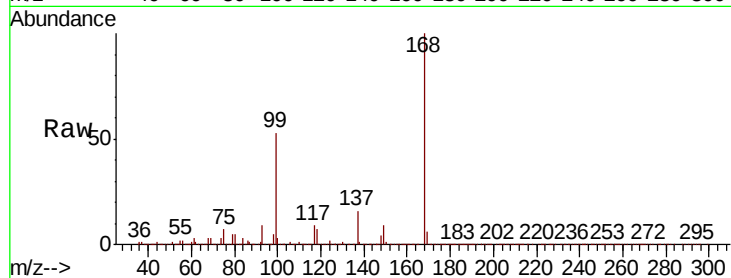
VX0410WBL01

Tot Ion:168 Resp: 1155460

Ion Ratio Lower Upper

168 100

99 52.7 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

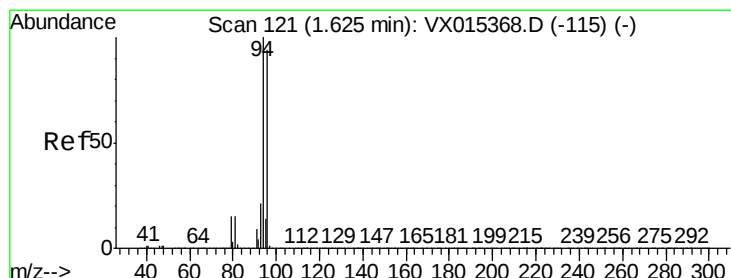
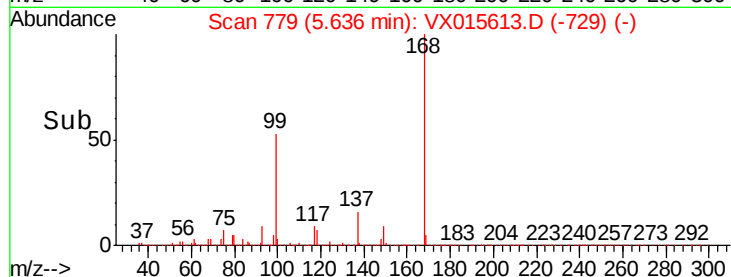
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015613.D

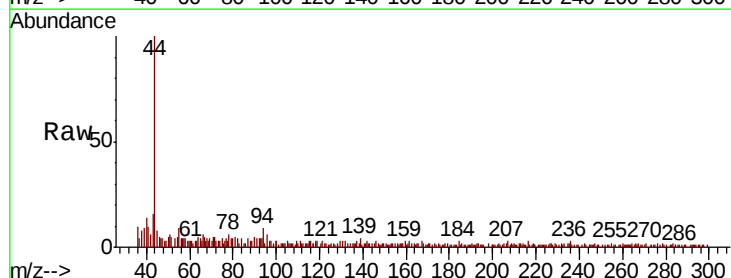
Acq: 10 Apr 2020 12:10

Tgt Ion: 94 Resp: 1014

Ion Ratio Lower Upper

94 100

96 57.5 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

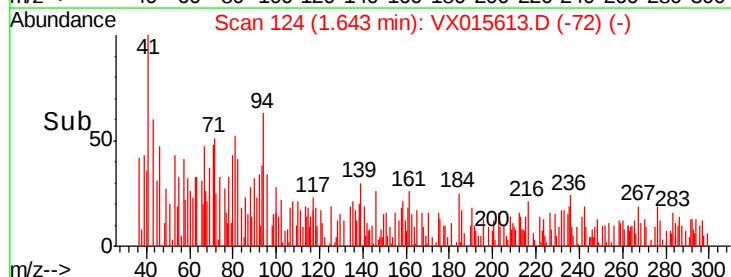
400

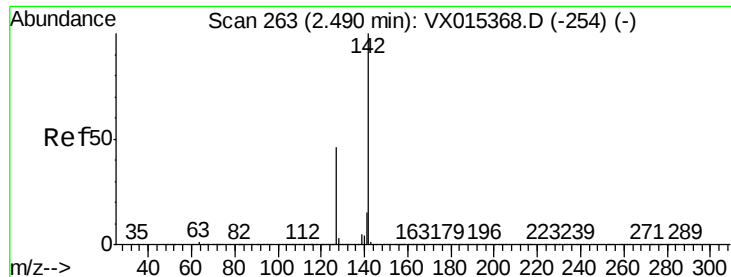
200

0

Time-->

1.60 1.62 1.64 1.66 1.68





#10

Methvl Iodide

Concen: 0.283 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

VX0410WBL01

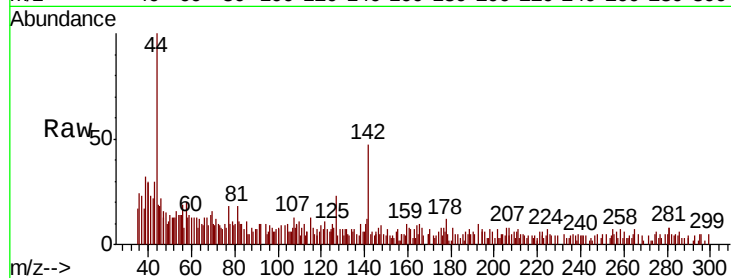
Tot Ion:142 Resp: 3974

Ion Ratio Lower Upper

142 100

127 0.0 35.9 53.9#

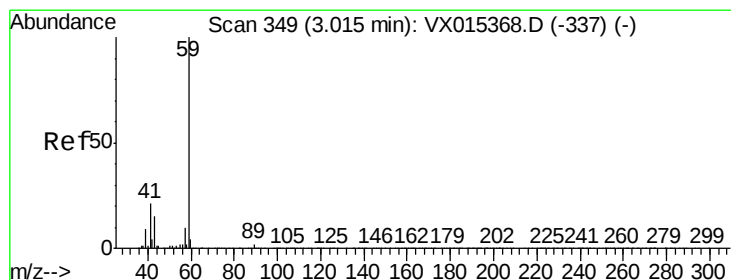
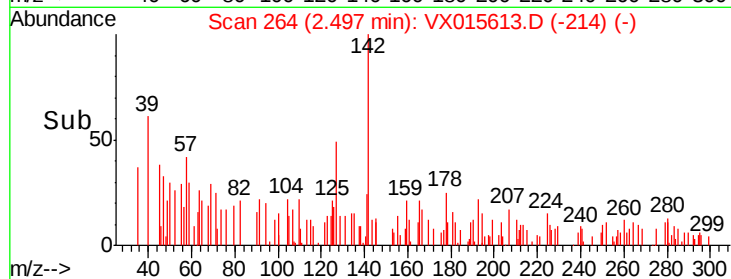
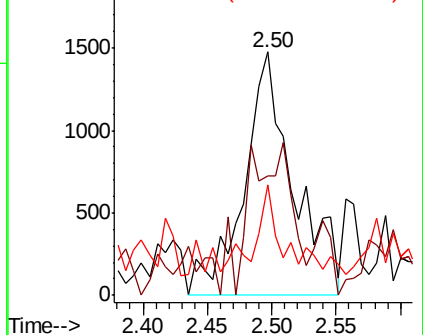
141 20.8 11.6 17.4#



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: 0.427 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.00 min

Lab File: VX015613.D

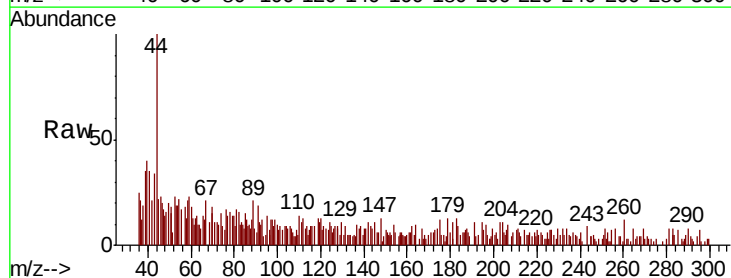
Acq: 10 Apr 2020 12:10

Tgt Ion: 59 Resp: 1664

Ion Ratio Lower Upper

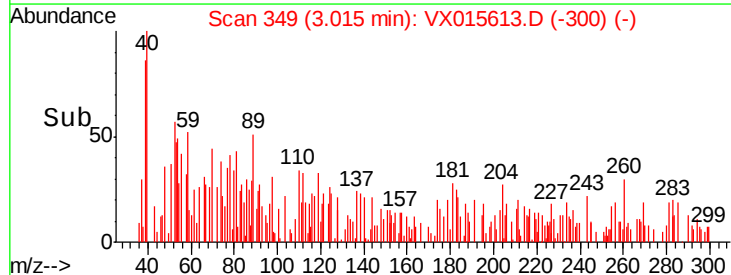
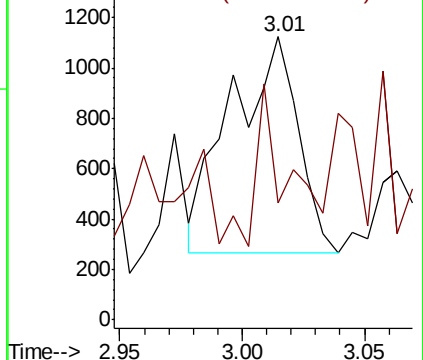
59 100

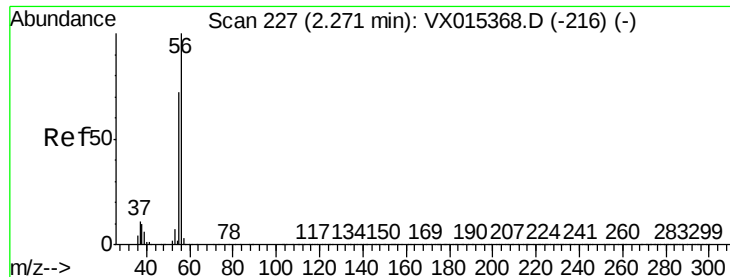
57 39.7 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

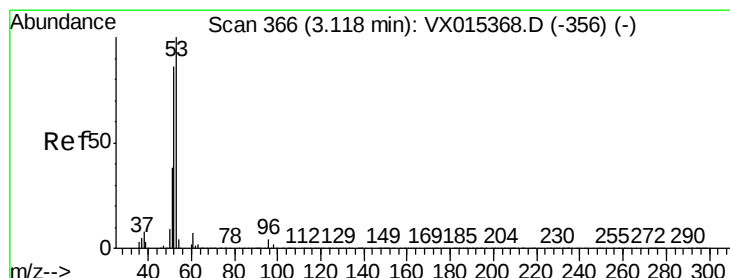
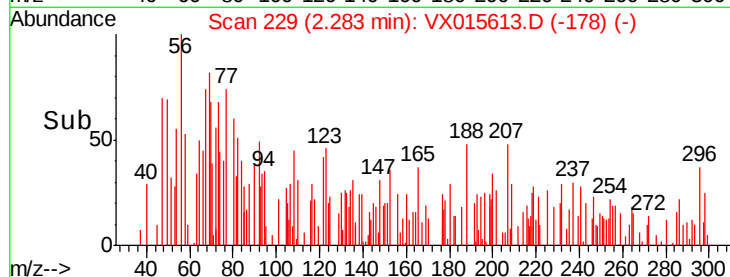
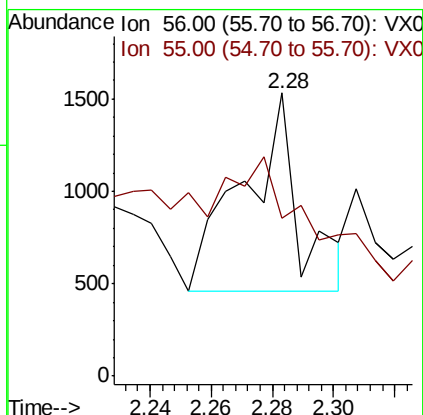
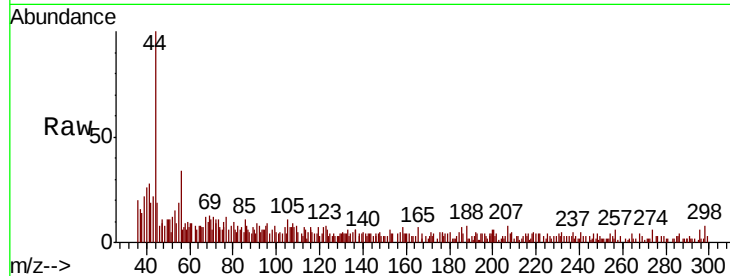




#13
Acrolein
Concen: 0.618 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.01 min
Lab File: VX015613.D
Acq: 10 Apr 2020 12:10

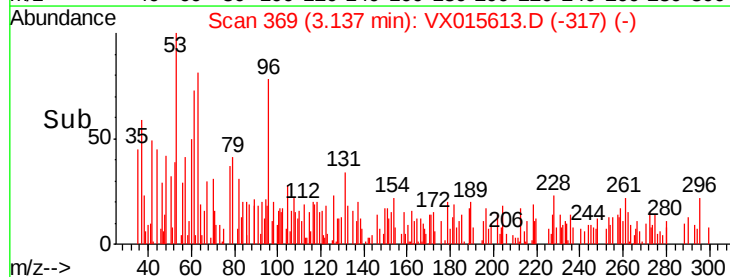
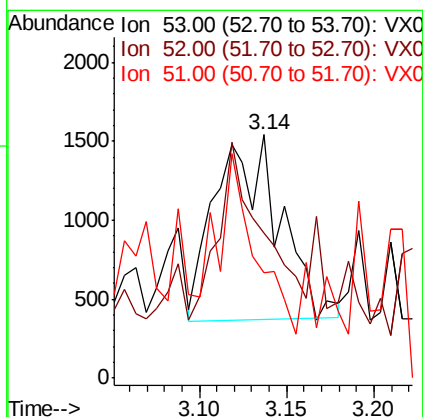
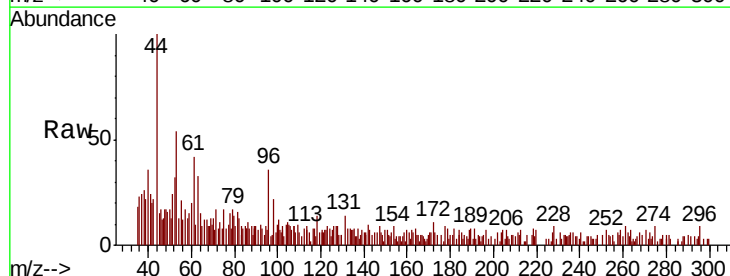
Instrument :
MSVOA_X
ClientSampleId :
VX0410WBL01

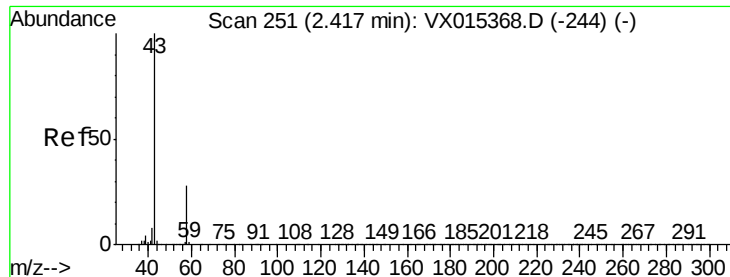
Tot Ion: 56 Resp: 1374
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#15
Acrylonitrile
Concen: 0.400 ug/l
RT: 3.14 min Scan# 369
Delta R.T. 0.02 min
Lab File: VX015613.D
Acq: 10 Apr 2020 12:10

Tgt Ion: 53 Resp: 2979
Ion Ratio Lower Upper
53 100
52 67.4 66.8 100.2
51 56.5 29.5 44.3#





#16

Acetone

Concen: 2.424 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

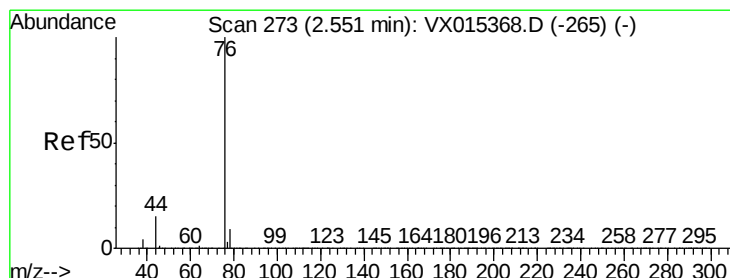
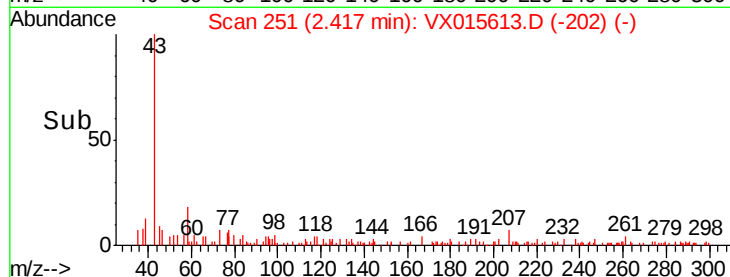
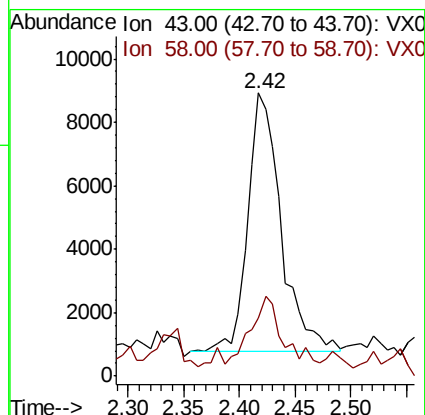
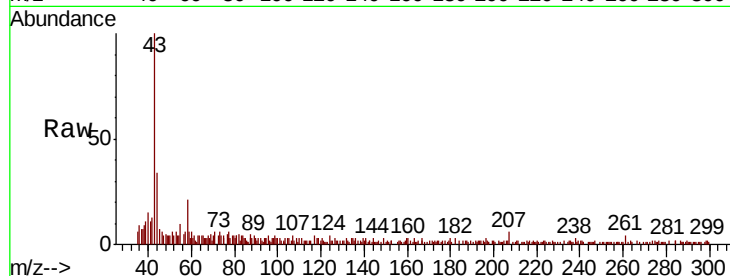
VX0410WBL01

Tot Ion: 43 Resp: 16969

Ion Ratio Lower Upper

43 100

58 16.7 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.320 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015613.D

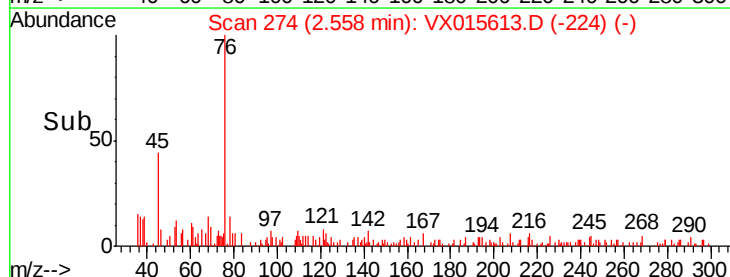
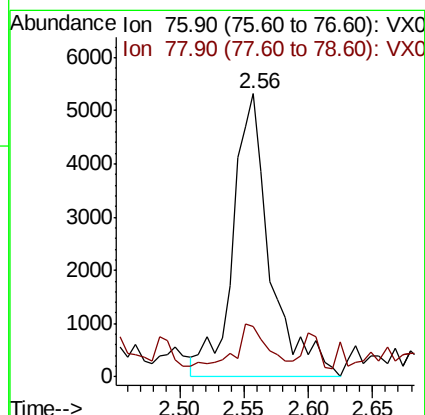
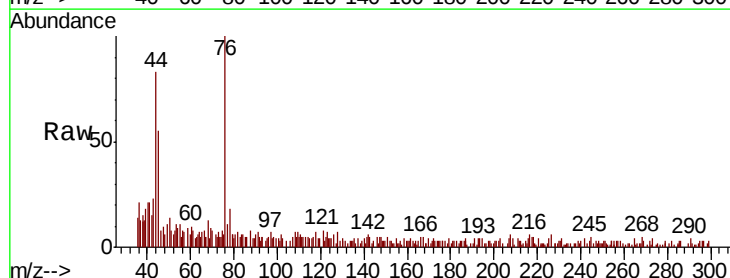
Acq: 10 Apr 2020 12:10

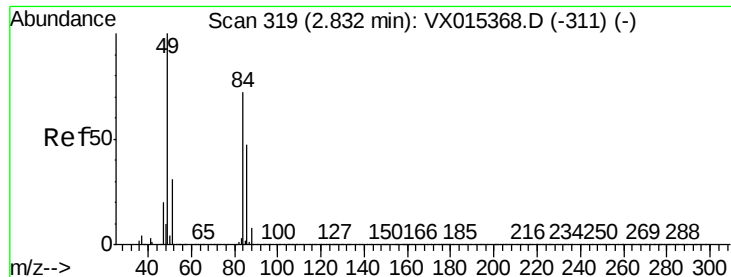
Tgt Ion: 76 Resp: 10655

Ion Ratio Lower Upper

76 100

78 14.9 7.1 10.7#

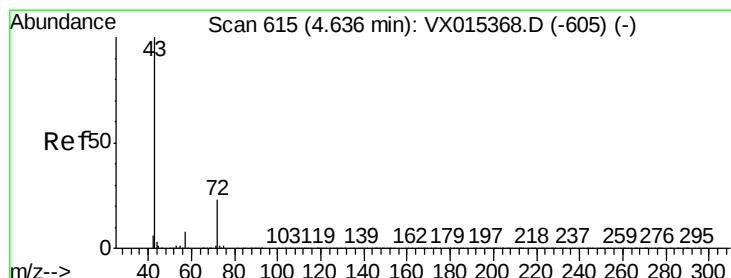
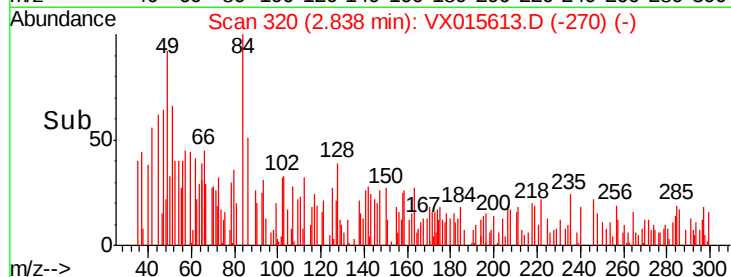
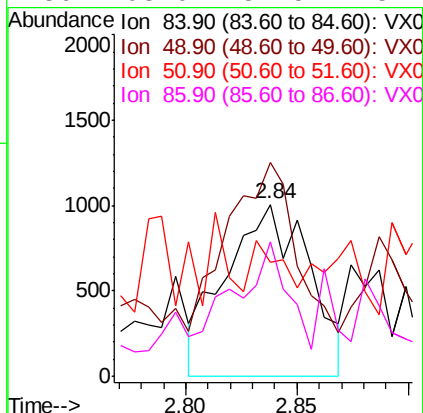
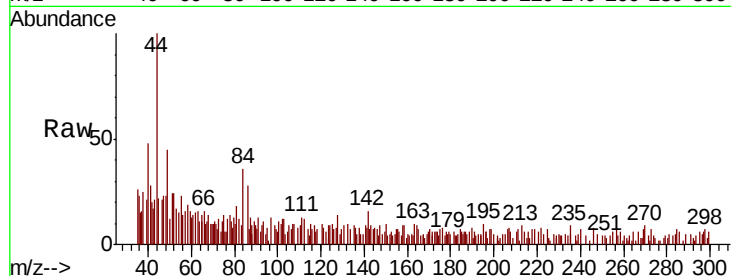




#20
Methvlene Chloride
Concen: 0.200 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015613.D
Acq: 10 Apr 2020 12:10

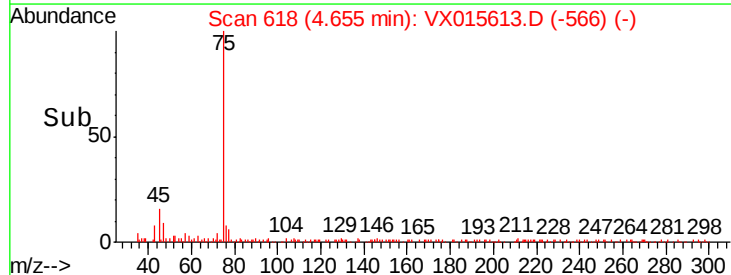
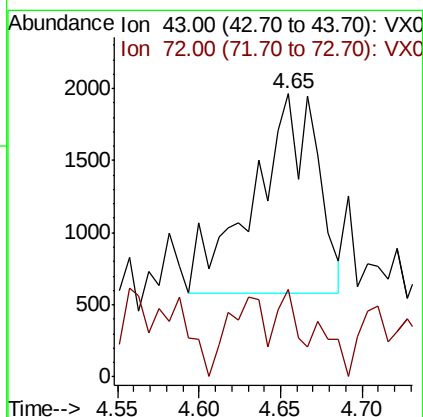
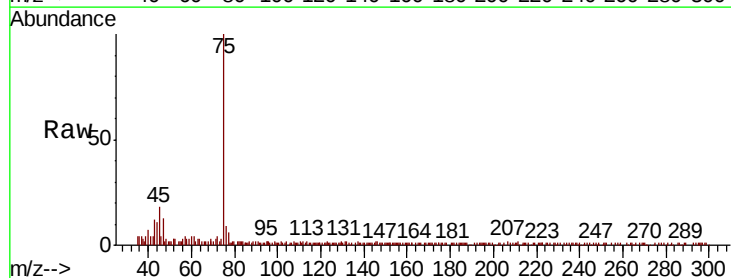
Instrument :
MSVOA_X
ClientSampleId :
VX0410WBL01

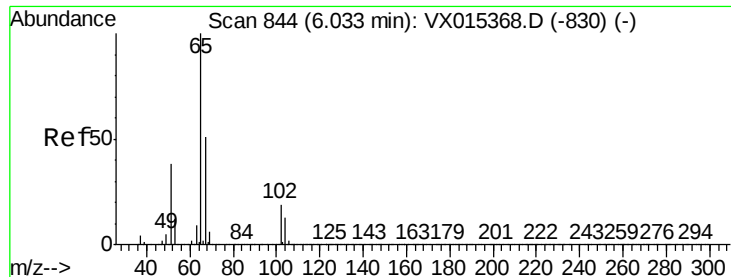
Tot Ion: 84 Resp: 2622
Ion Ratio Lower Upper
84 100
49 142.4 111.3 166.9
51 0.0 34.0 51.0#
86 108.0 52.5 78.7#



#25
2-Butanone
Concen: 0.334 ug/l
RT: 4.65 min Scan# 618
Delta R.T. 0.02 min
Lab File: VX015613.D
Acq: 10 Apr 2020 12:10

Tgt Ion: 43 Resp: 3756
Ion Ratio Lower Upper
43 100
72 25.1 19.0 28.4





#33

1,2-Dichloroethane-d4

Concen: 45.612 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

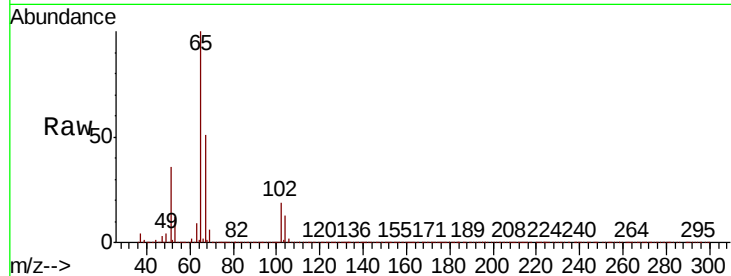
VX0410WBL01

Tot Ion: 65 Resp: 743308

Ion Ratio Lower Upper

65 100

67 50.5 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

300000

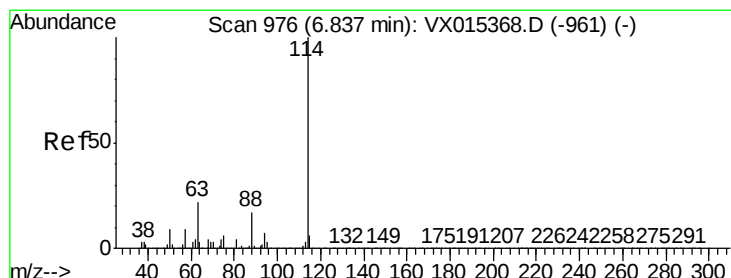
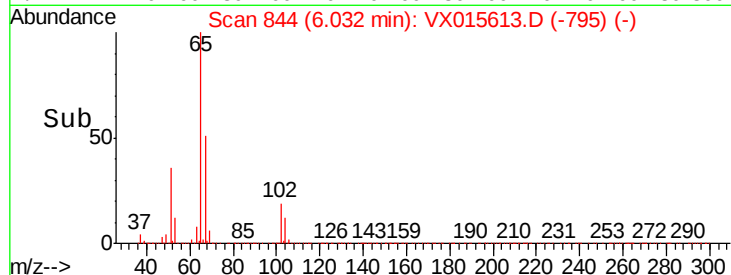
200000

100000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 976

Delta R.T. -0.01 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

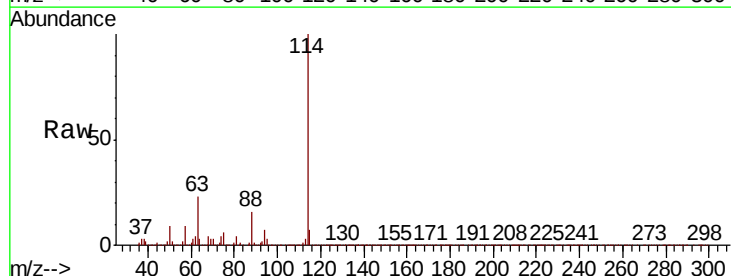
Tgt Ion: 114 Resp: 1822382

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.2

88 16.4 0.0 33.8



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

1000000

800000

600000

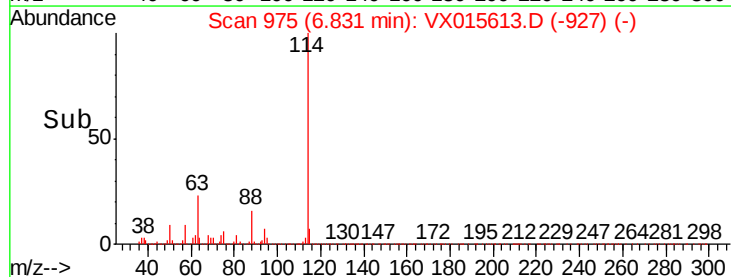
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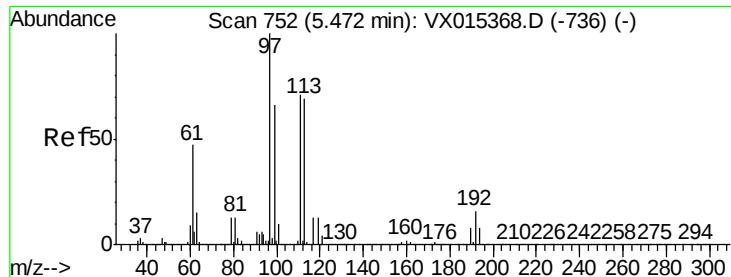
200000

0

Time-->

6.70 6.80 6.90 7.00

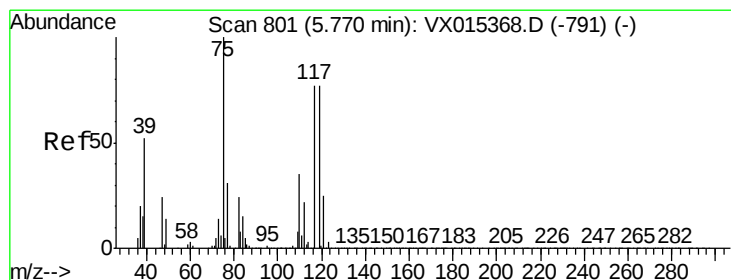
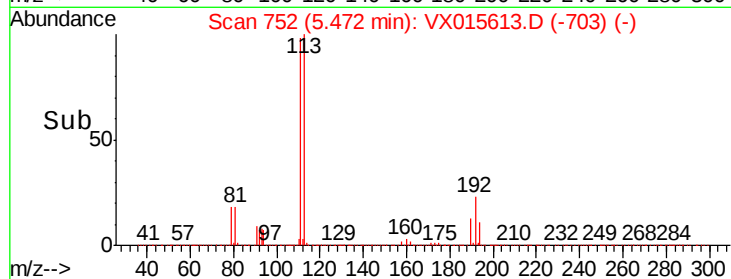
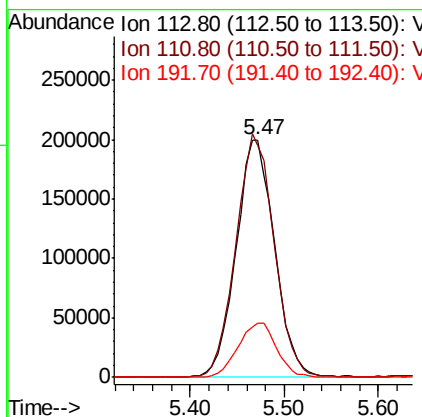
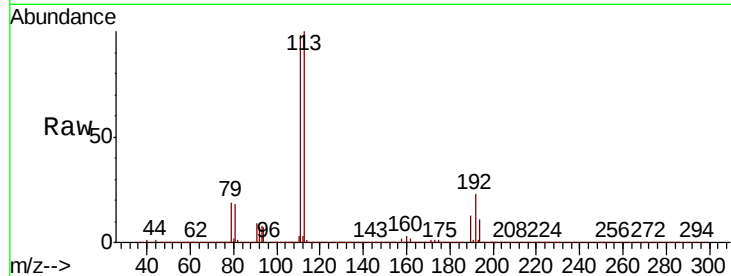




#35
 Dibromofluoromethane
 Concen: 48.553 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

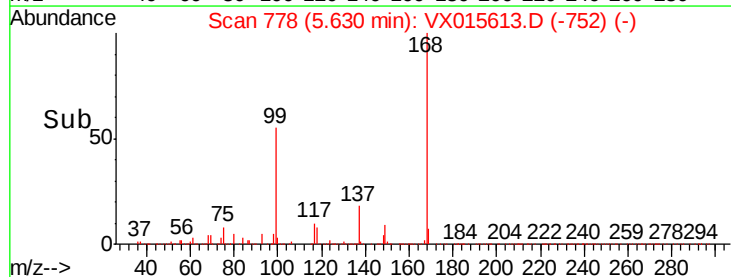
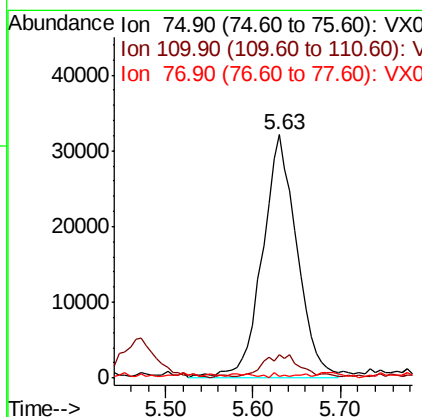
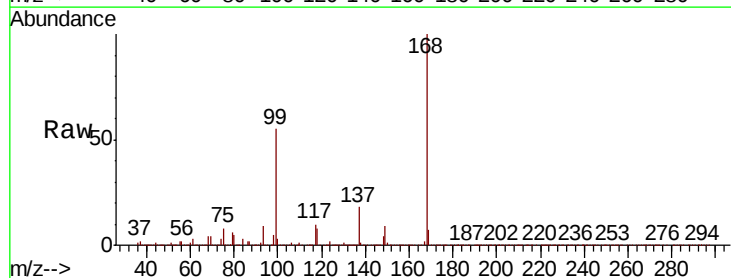
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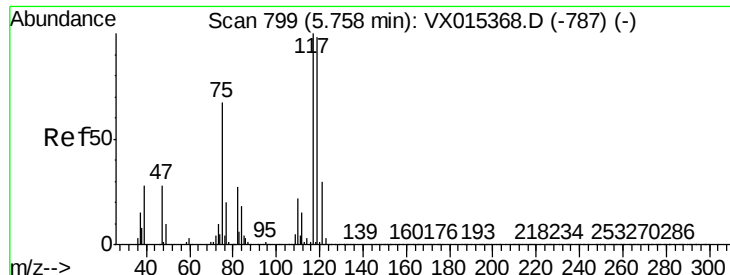
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.5	122.3
192	22.9	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.291 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	17.1	51.3#
77	0.7	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampled :

VX0410WBL01

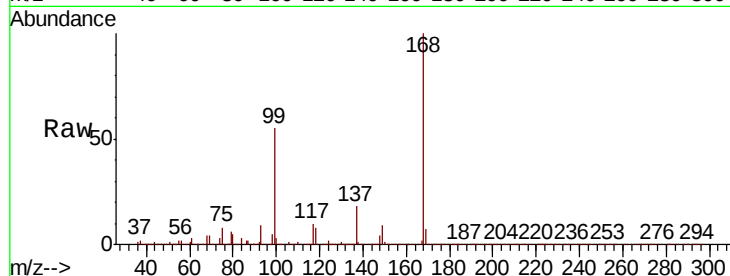
Tot Ion:117 Resp: 109126

Ion Ratio Lower Upper

117 100

119 4.5 78.0 117.0#

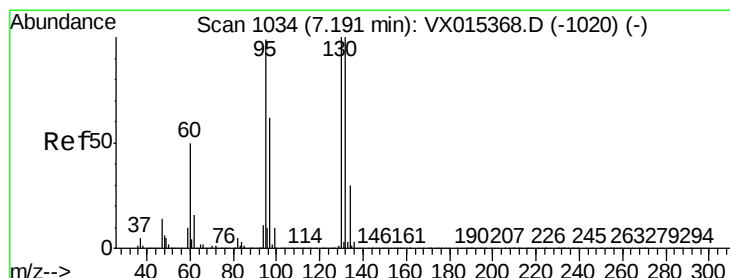
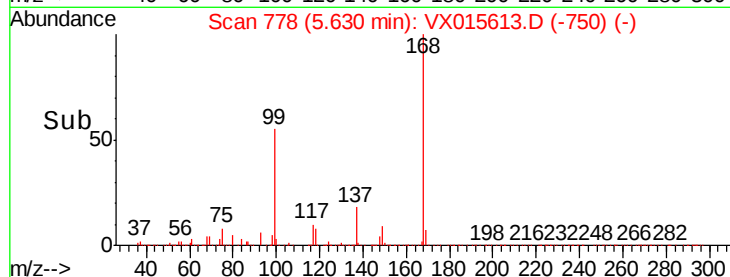
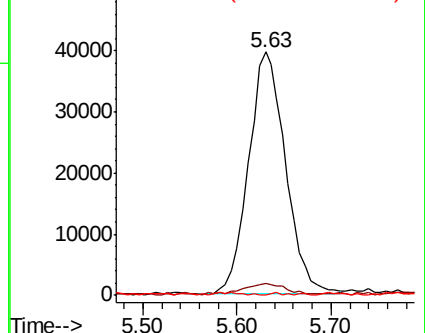
121 0.0 23.8 35.8#



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



#44

Trichloroethene

Concen: 0.212 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.02 min

Lab File: VX015613.D

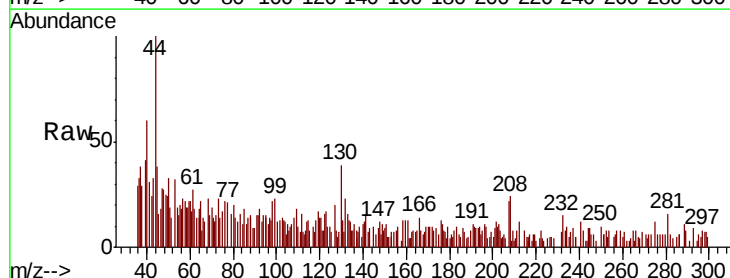
Acq: 10 Apr 2020 12:10

Tgt Ion:130 Resp: 2850

Ion Ratio Lower Upper

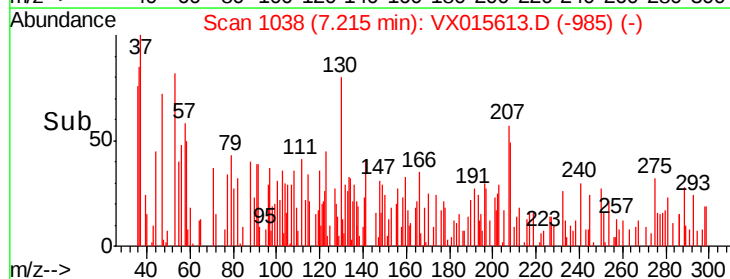
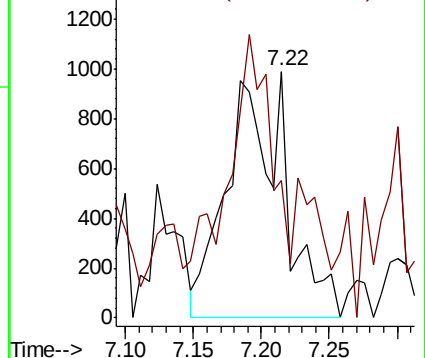
130 100

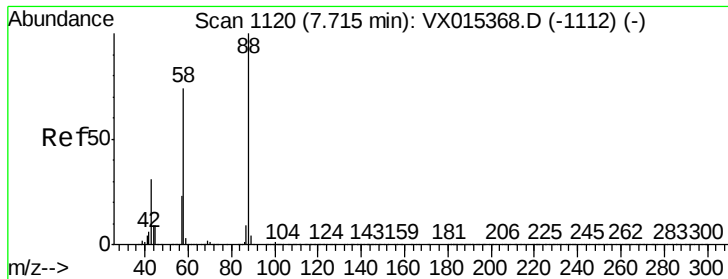
95 29.0 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.520 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

VX0410WBL01

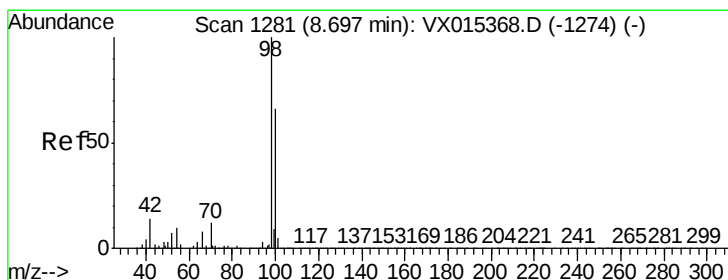
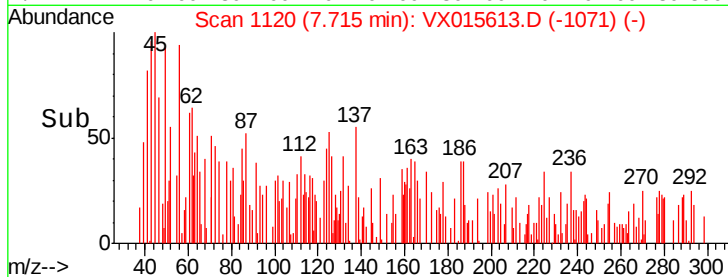
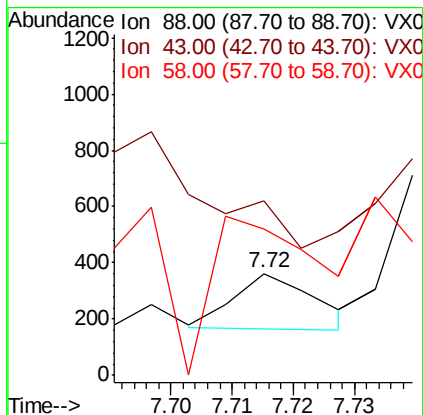
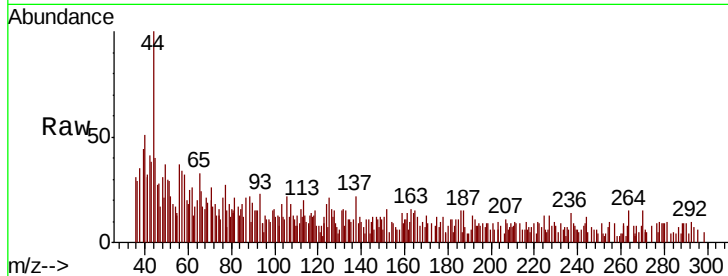
Tot Ion: 88 Resp: 179

Ion Ratio Lower Upper

88 100

43 351.4 30.1 45.1#

58 385.5 60.6 90.8#



#50

Toluene-d8

Concen: 50.803 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015613.D

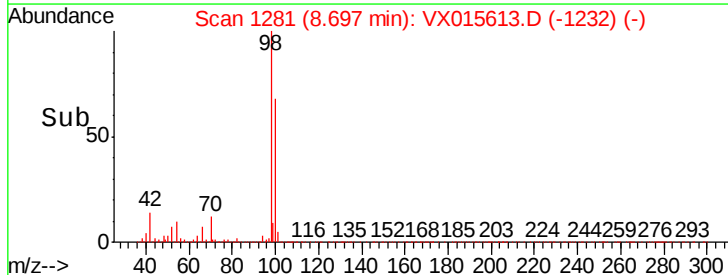
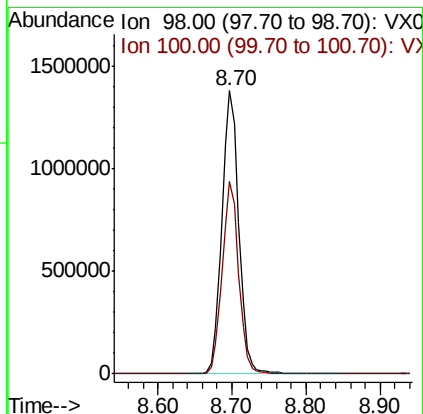
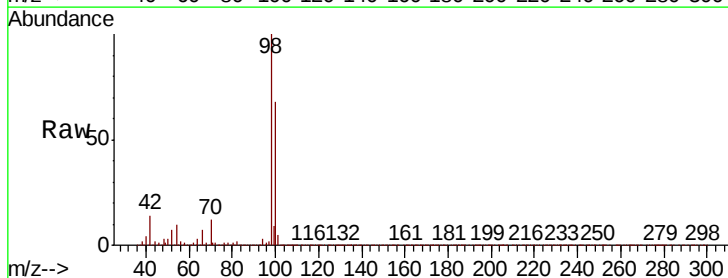
Acq: 10 Apr 2020 12:10

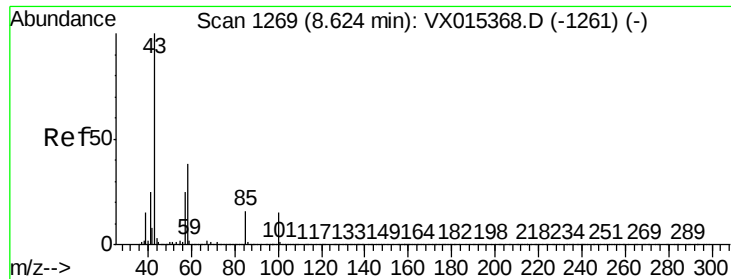
Tgt Ion: 98 Resp: 2178900

Ion Ratio Lower Upper

98 100

100 66.4 53.5 80.3

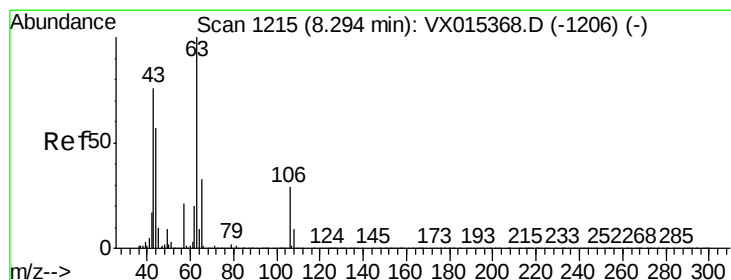
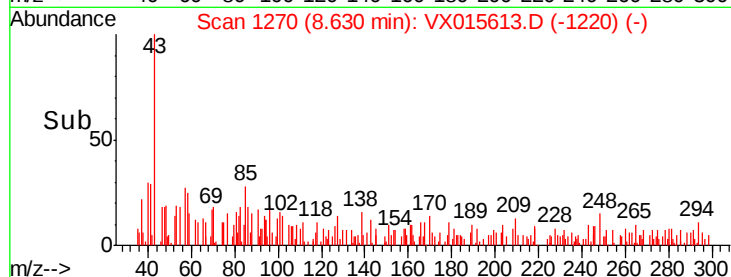
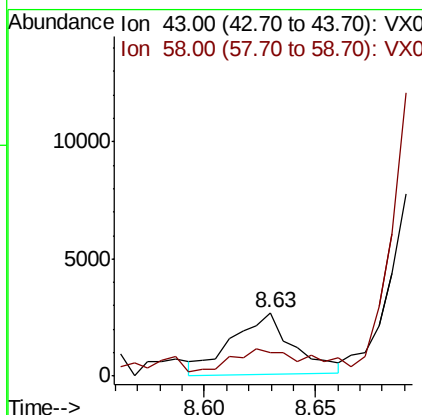
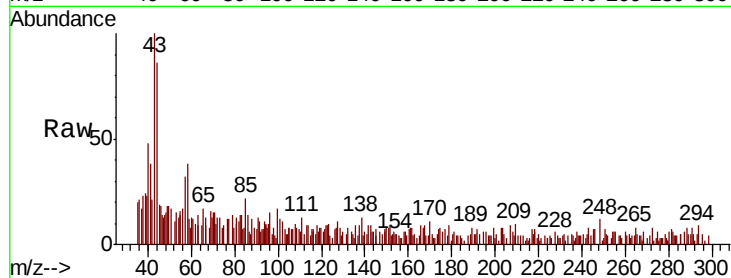




#51
 4-Methyl-2-Pentanone
 Concen: 0.237 ug/l
 RT: 8.63 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

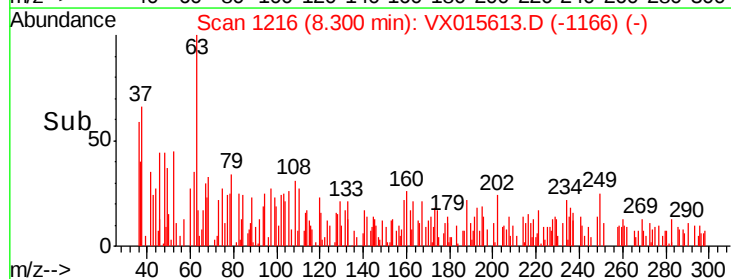
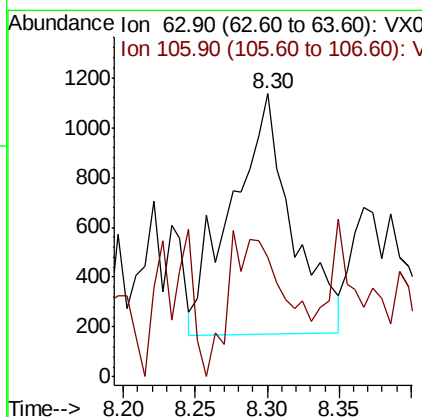
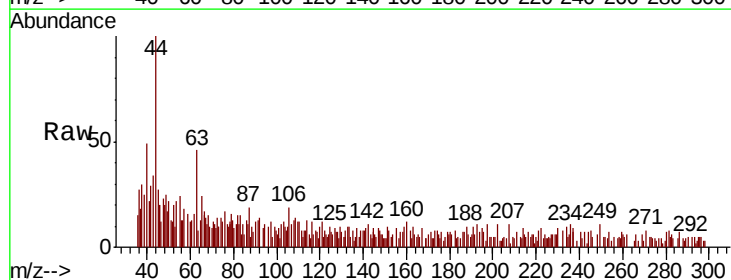
Instrument :
 MSVOA_X
 ClientSampled :
 VX0410WBL01

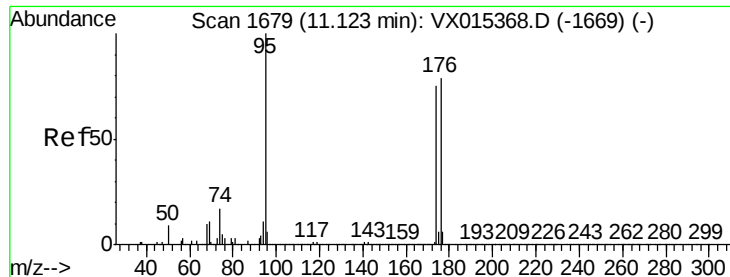
Tot Ion: 43 Resp: 4957
 Ion Ratio Lower Upper
 43 100
 58 39.2 29.7 44.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.263 ug/l
 RT: 8.30 min Scan# 1216
 Delta R.T. 0.01 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

Tgt Ion: 63 Resp: 2796
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.7 34.1#





#62

4-Bromofluorobenzene

Concen: 52.778 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

VX0410WBL01

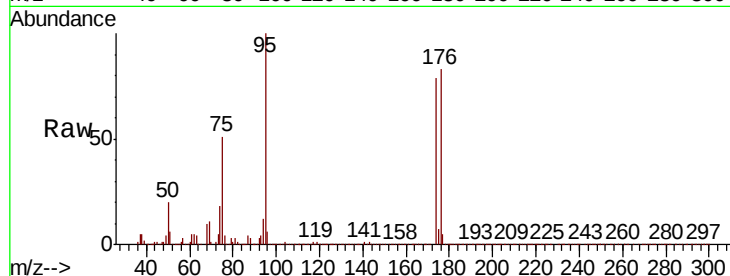
Tot Ion: 95 Resp: 919939

Ion Ratio Lower Upper

95 100

174 80.8 0.0 158.6

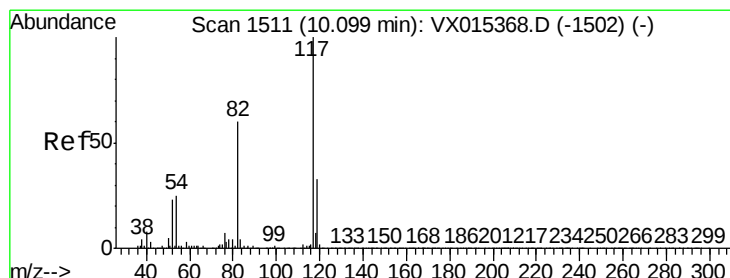
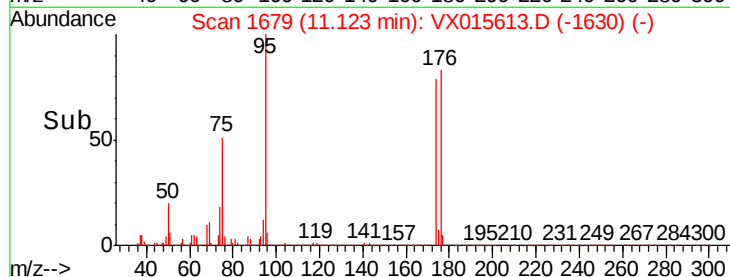
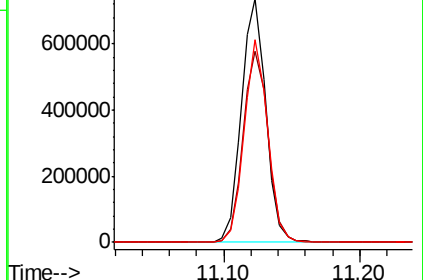
176 80.7 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX015613.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015613.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015613.D (-1669) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

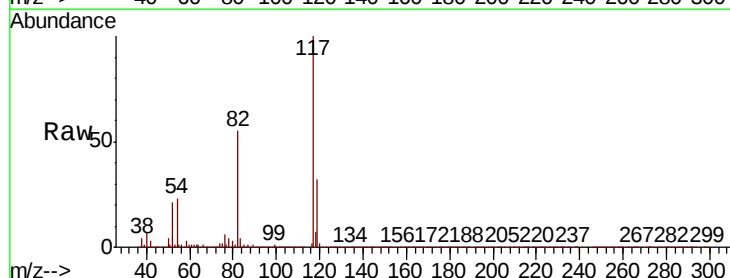
Tgt Ion: 117 Resp: 1702158

Ion Ratio Lower Upper

117 100

82 55.3 47.8 71.8

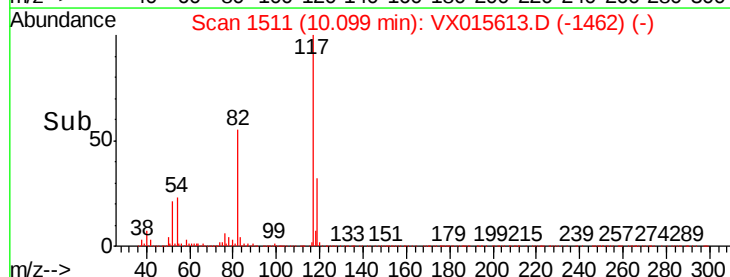
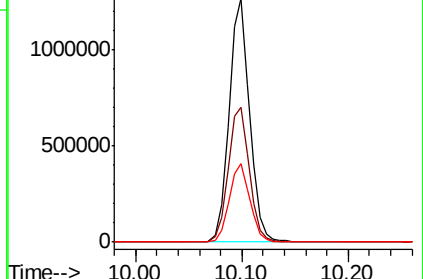
119 32.4 26.8 40.2

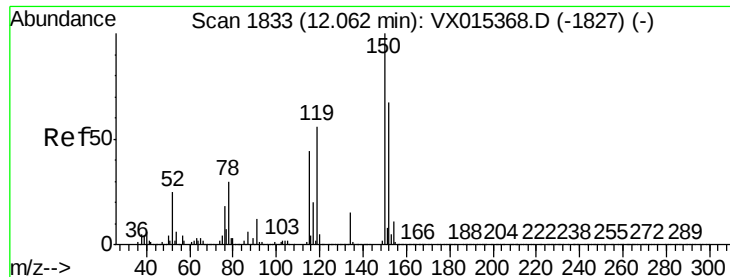


Abundance Ion 116.90 (116.60 to 117.60): VX015613.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015613.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015613.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015613.D

Acq: 10 Apr 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

VX0410WBL01

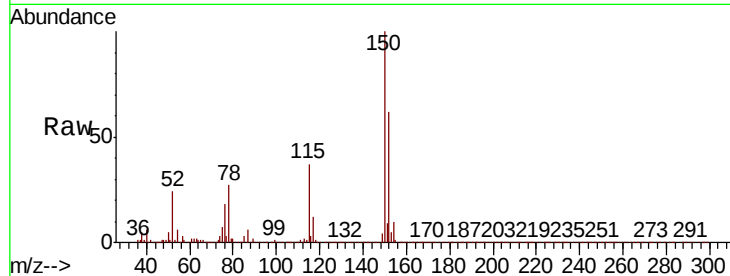
Tot Ion:152 Resp: 896961

Ion Ratio Lower Upper

152 100

115 58.5 39.0 116.9

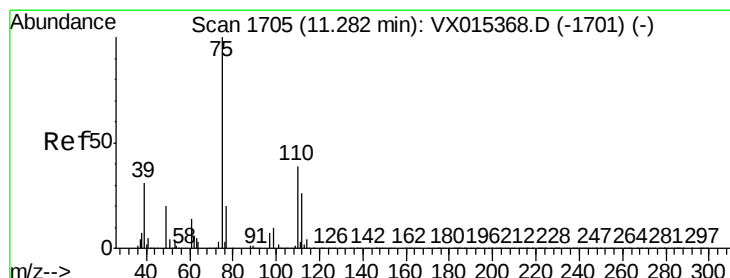
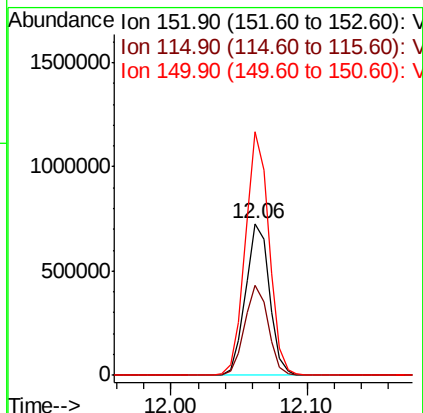
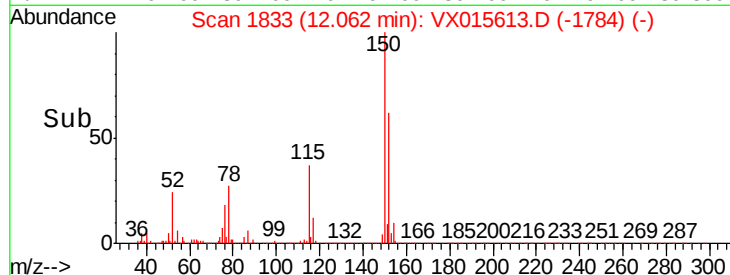
150 158.0 0.0 340.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.155 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015613.D

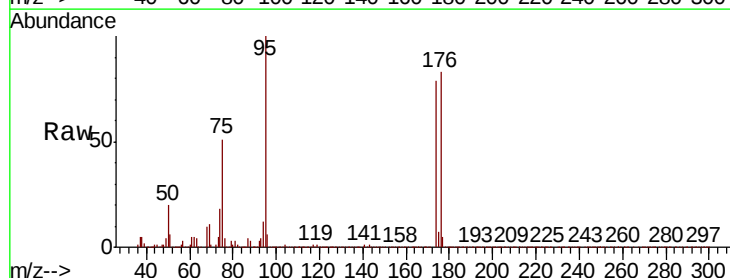
Acq: 10 Apr 2020 12:10

Tgt Ion: 75 Resp: 463995

Ion Ratio Lower Upper

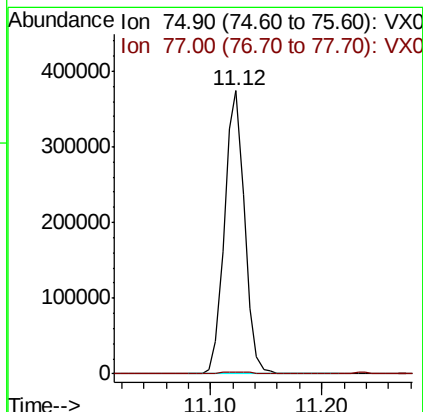
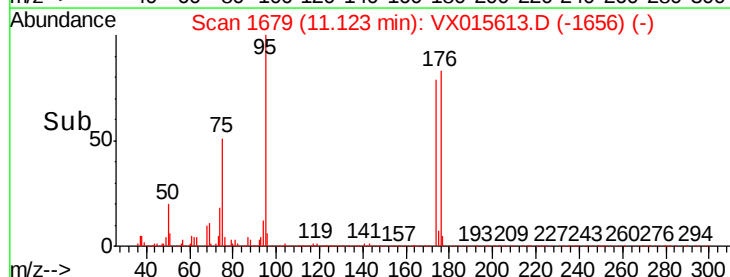
75 100

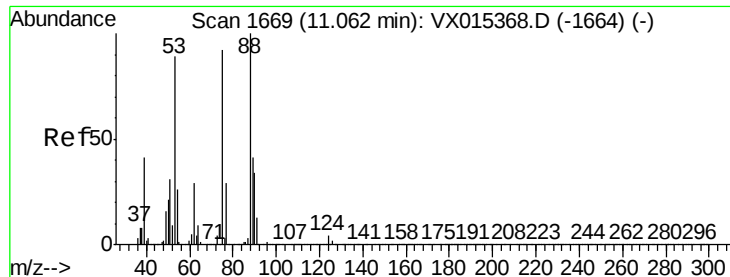
77 1.1 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

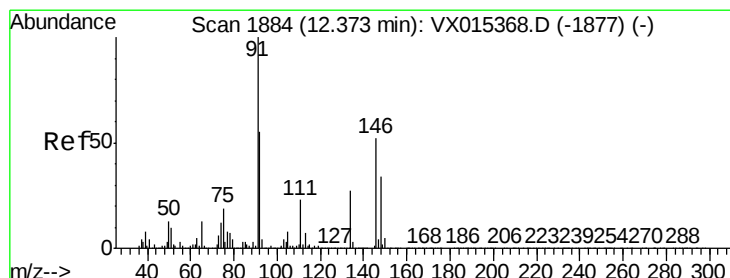
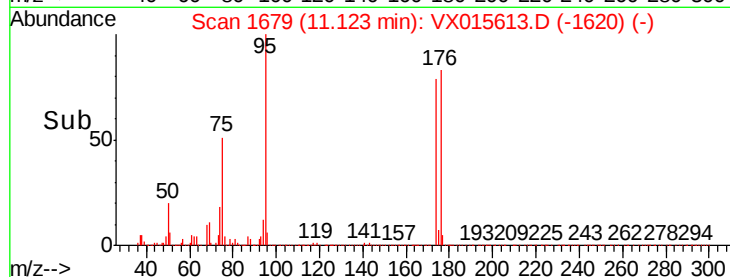
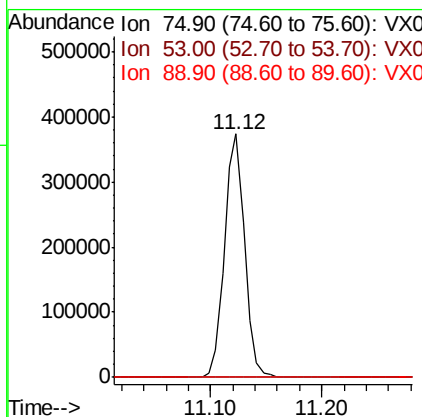
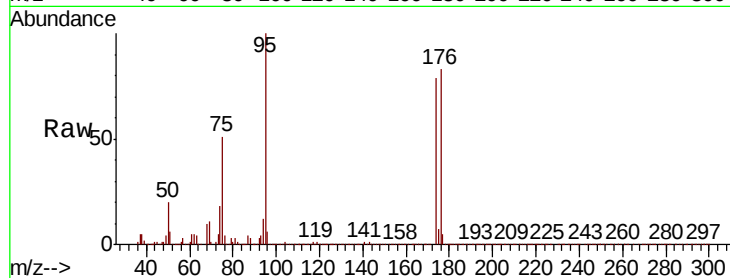




#81
trans-1,4-Dichloro-2-butene
Concen: 60.359 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.06 min
Lab File: VX015613.D
Acq: 10 Apr 2020 12:10

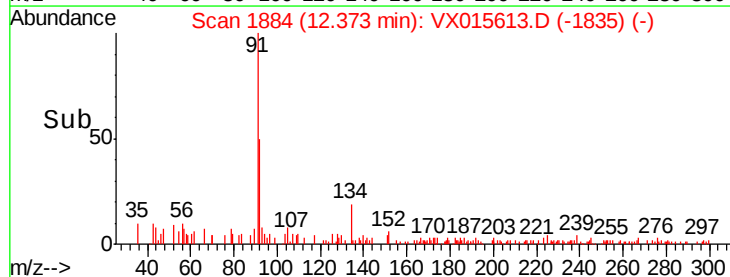
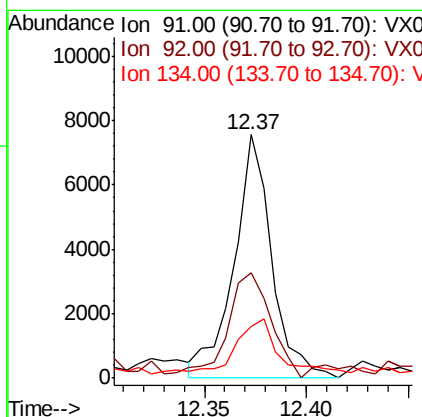
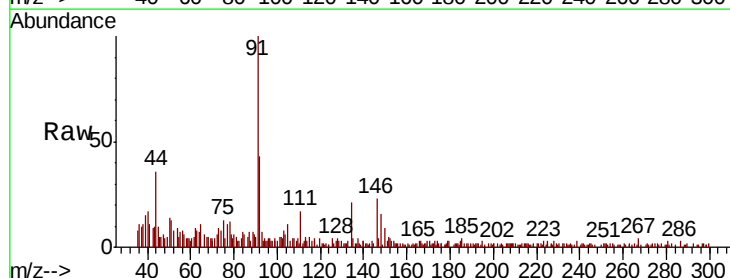
Instrument :
MSVOA_X
ClientSampleId :
VX0410WBL01

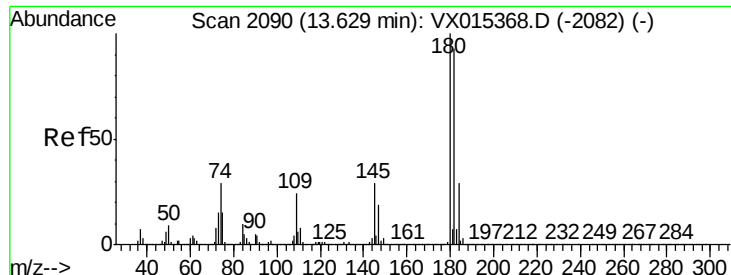
Tot Ion: 75 Resp: 463995
Ion Ratio Lower Upper
75 100
53 0.3 80.1 120.1#
89 0.1 36.1 54.1#



#89
n-Butylbenzene
Concen: 0.205 ug/l
RT: 12.37 min Scan# 1884
Delta R.T. -0.00 min
Lab File: VX015613.D
Acq: 10 Apr 2020 12:10

Tgt Ion: 91 Resp: 9741
Ion Ratio Lower Upper
91 100
92 49.2 27.2 81.5
134 30.5 13.4 40.2

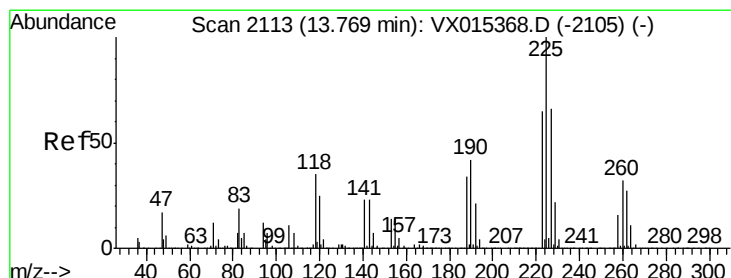
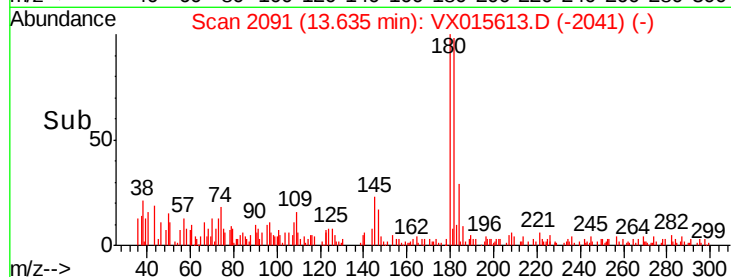
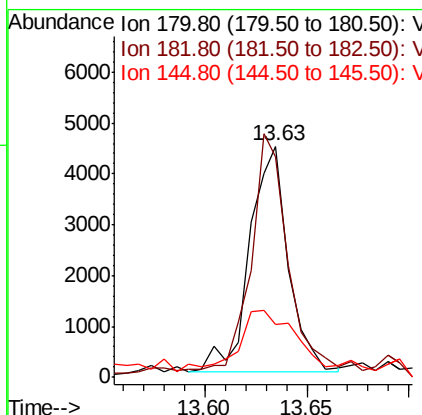
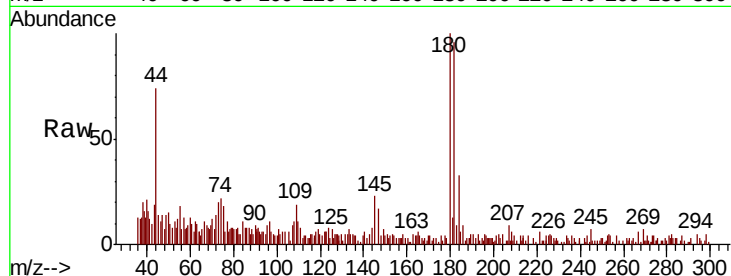




#93
 1,2,4-Trichlorobenzene
 Concen: 0.272 ug/l
 RT: 13.63 min Scan# 2091
 Delta R.T. 0.01 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

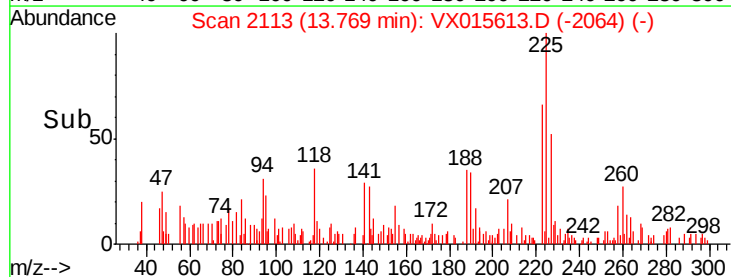
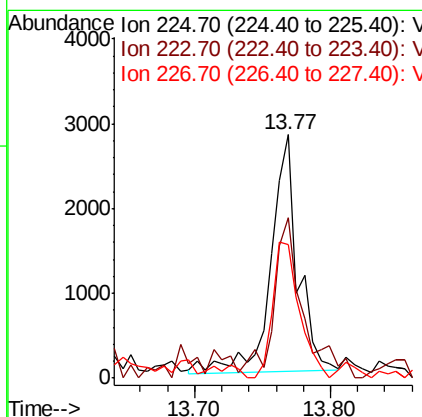
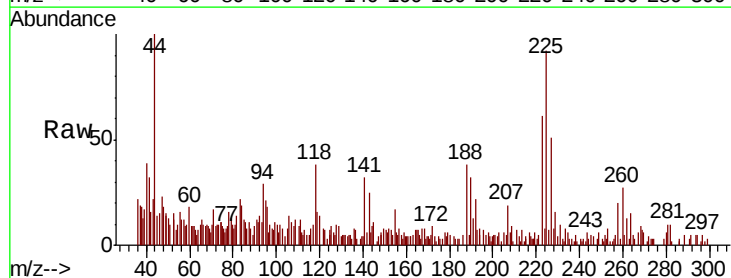
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0410WBL01

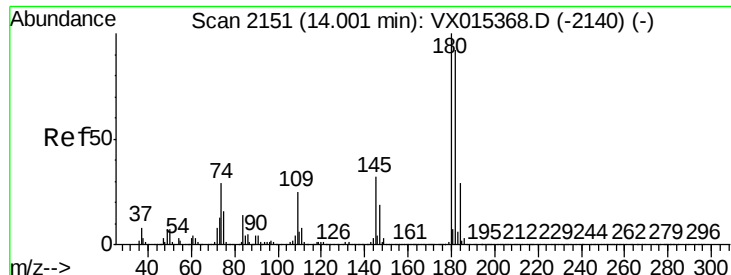
Tot Ion	Ratio	Lower	Upper
180	100		
182	99.3	46.9	140.7
145	33.1	14.9	44.5



#94
 Hexachlorobutadiene
 Concen: 0.376 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

Tgt Ion	Ratio	Lower	Upper
225	100		
223	73.3	31.9	95.7
227	56.9	30.4	91.3

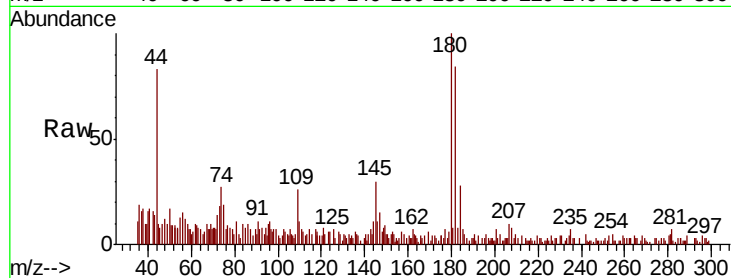




#96
 1,2,3-Trichlorobenzene
 Concen: 0.265 ug/l
 RT: 14.01 min Scan# 2152
 Delta R.T. 0.01 min
 Lab File: VX015613.D
 Acq: 10 Apr 2020 12:10

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0410WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.6	46.7	140.0
145	24.2	15.8	47.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

