

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013831.D
 Acq On : 07 Dec 2019 04:17
 Operator : JC/SP
 Sample : K6185-16 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-20191205DL

Quant Time: Dec 07 05:45:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	556586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	843607	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	760270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	355560	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	306577	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
35) Dibromofluoromethane	5.48	113	250047	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
50) Toluene-d8	8.71	98	1005229	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.14	95	345898	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	

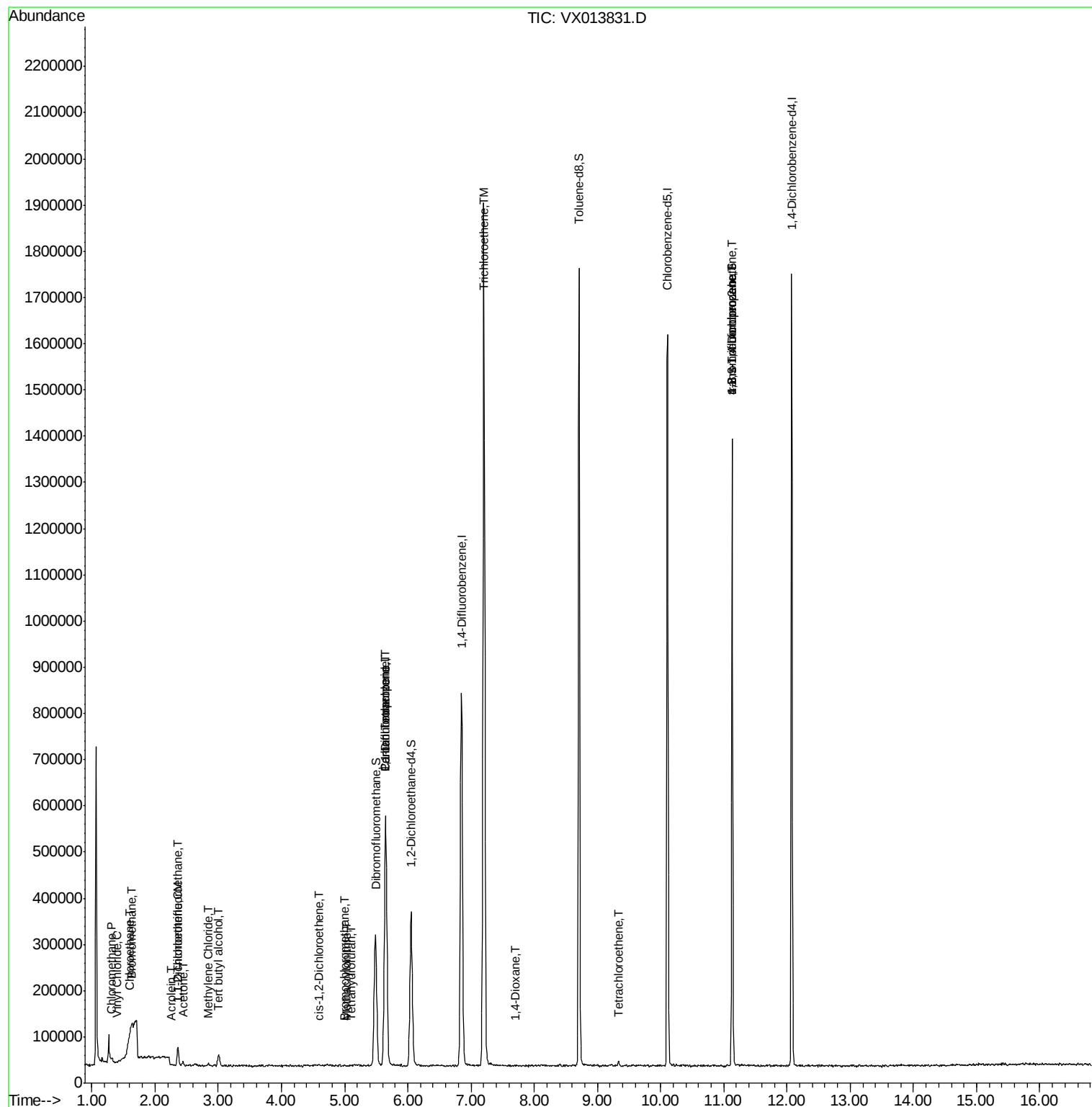
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1634	0.235	ug/l #	66
4) Vinyl Chloride	1.40	62	1714	0.219	ug/l #	52
5) Bromomethane	1.63	94	1226	0.233	ug/l	89
6) Chloroethane	1.59	64	8502	1.910	ug/l #	64
9) 1,1,2-Trichlorotrifluoroet	2.36	101	14556	2.743	ug/l	95
11) Tert butyl alcohol	3.00	59	17199	10.785	ug/l #	86
12) 1,1-Dichloroethene	2.36	96	3944	0.745	ug/l	84
13) Acrolein	2.27	56	278	6.258	ug/l #	54
16) Acetone	2.44	43	7823	2.453	ug/l	94
20) Methylene Chloride	2.84	84	2930	0.478	ug/l #	81
27) cis-1,2-Dichloroethene	4.59	96	2572	0.388	ug/l	66
28) Bromochloromethane	5.00	49	1014	0.241	ug/l #	82
29) Tetrahydrofuran	5.11	42	788	0.270	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	37355	4.878	ug/l #	50
38) Carbon Tetrachloride	5.65	117	47277	6.695	ug/l #	16
41) Methacrylonitrile	5.04	41	985	0.209	ug/l #	56
44) Trichloroethene	7.20	130	728154	113.756	ug/l	99
49) 1,4-Dioxane	7.70	88	438	2.847	ug/l #	62
64) Tetrachloroethene	9.33	164	2036	0.359	ug/l #	82
76) 1,2,3-Trichloropropane	11.14	75	167143	20.900	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	167143	57.179	ug/l #	11

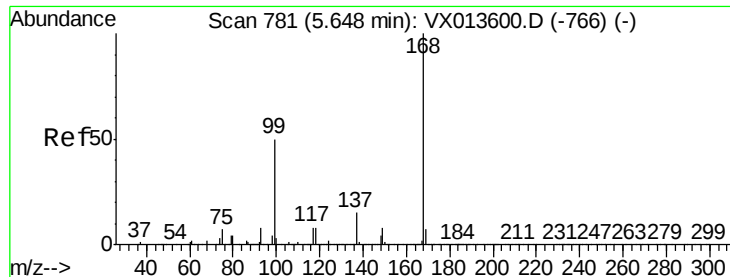
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

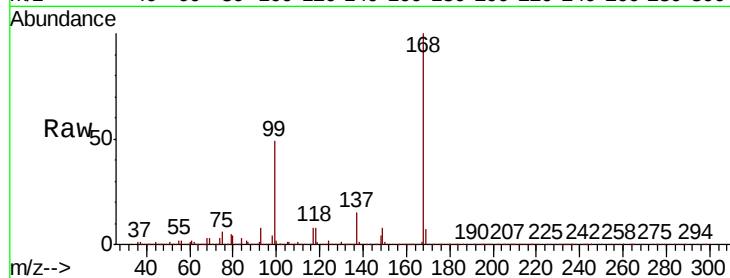
TT101D2-20191205DL

Tot Ion:168 Resp: 556586

Ion Ratio Lower Upper

168 100

99 48.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

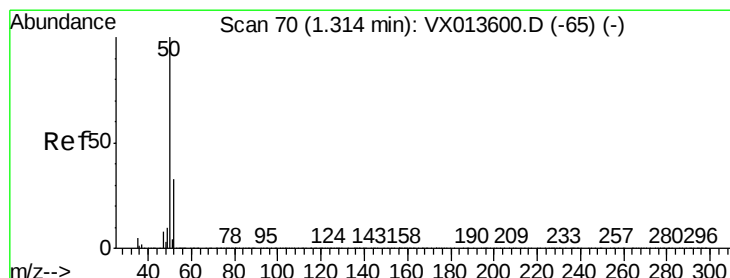
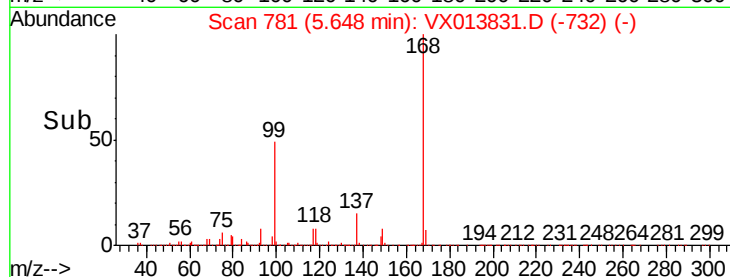
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX013831.D

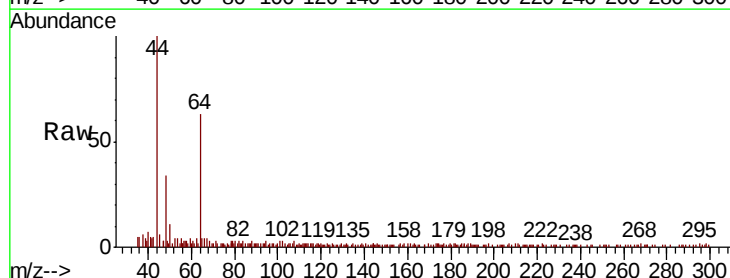
Acq: 07 Dec 2019 04:17

Tgt Ion: 50 Resp: 1634

Ion Ratio Lower Upper

50 100

52 13.4 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1000

800

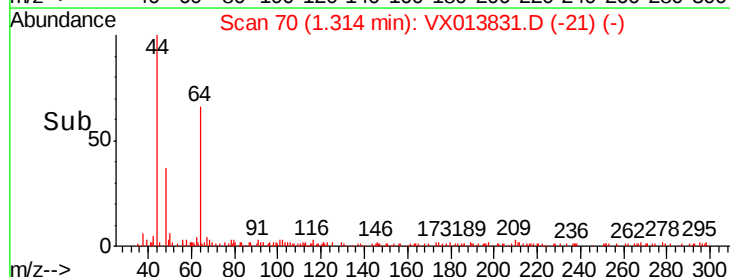
600

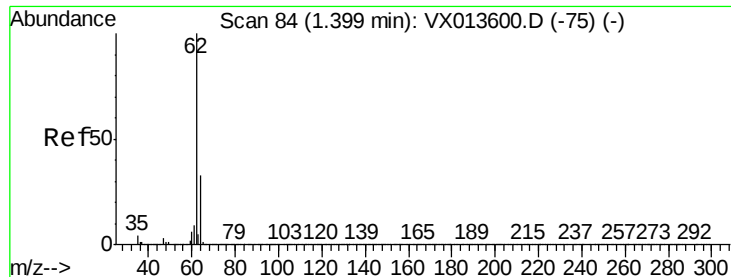
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.219 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

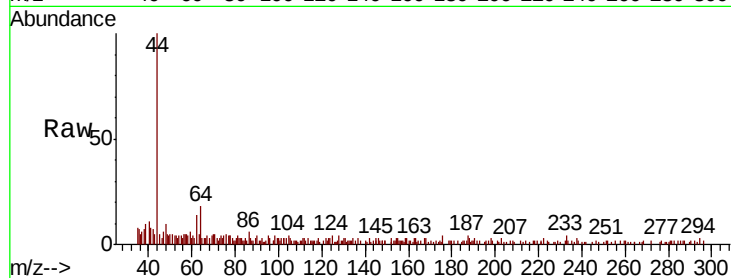
TT101D2-20191205DL

Tot Ion: 62 Resp: 1714

Ion Ratio Lower Upper

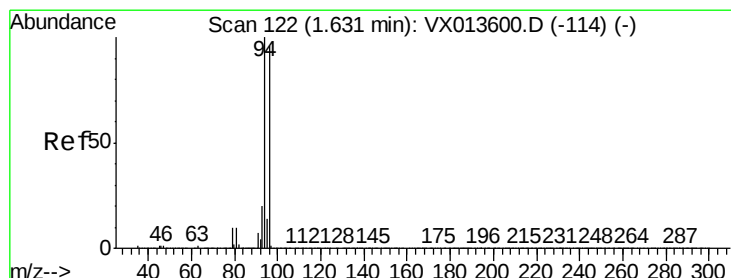
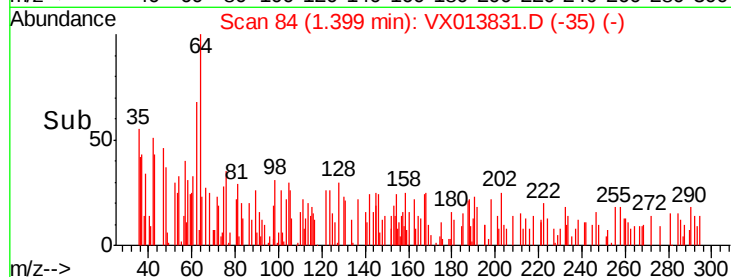
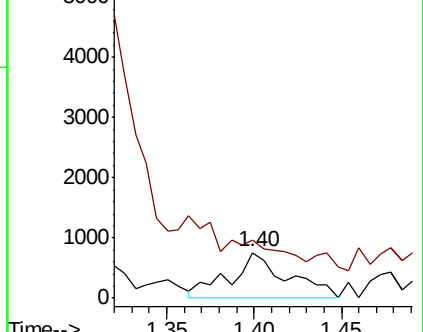
62 100

64 59.3 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.233 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013831.D

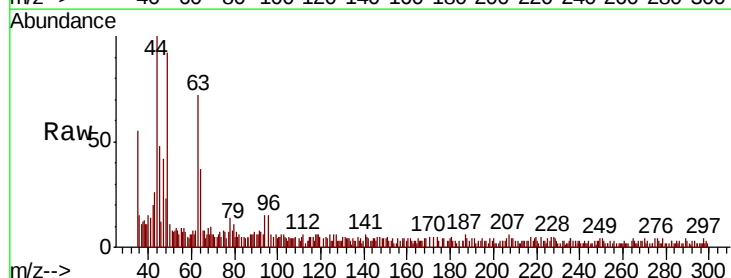
Acq: 07 Dec 2019 04:17

Tgt Ion: 94 Resp: 1226

Ion Ratio Lower Upper

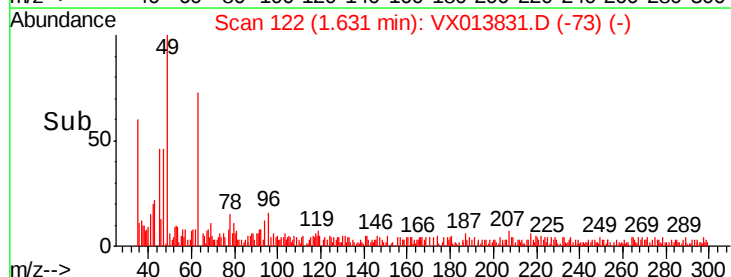
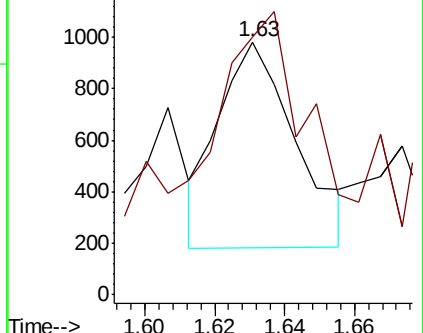
94 100

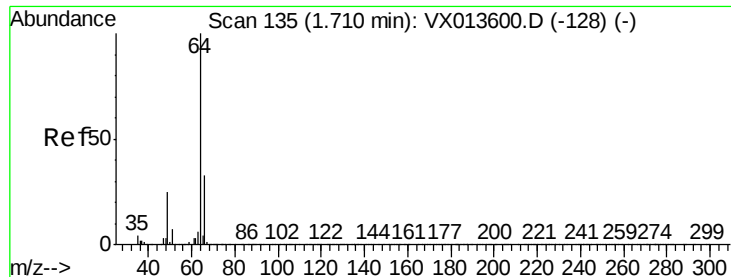
96 107.2 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.910 ug/l

RT: 1.59 min Scan# 115

Delta R.T. -0.12 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

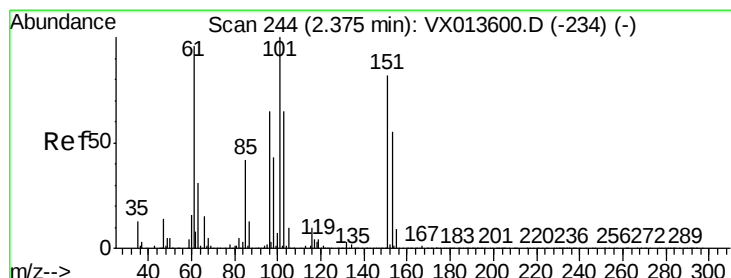
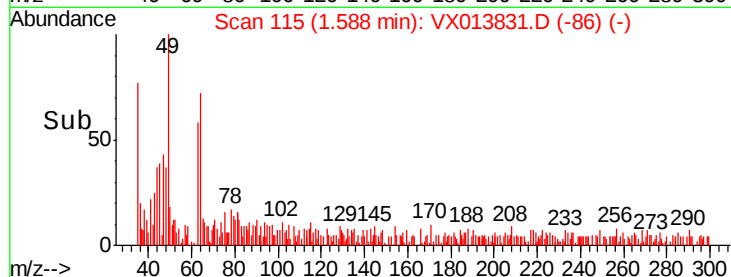
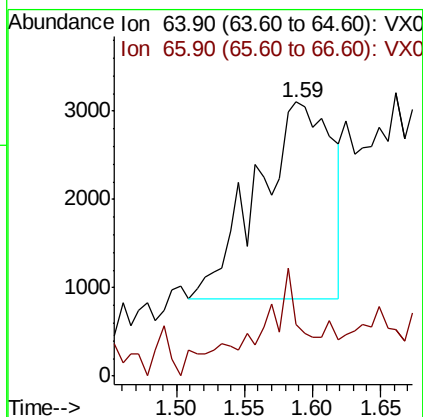
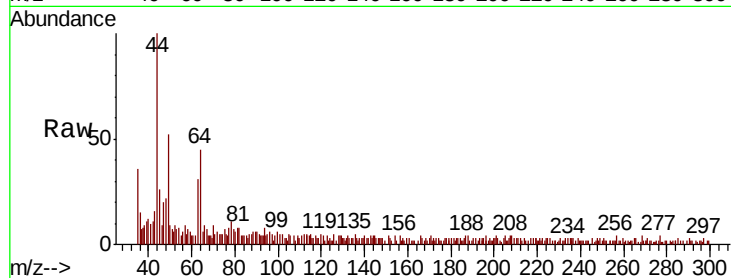
TT101D2-20191205DL

Tot Ion: 64 Resp: 8502

Ion Ratio Lower Upper

64 100

66 13.0 26.7 40.1#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.743 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.01 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

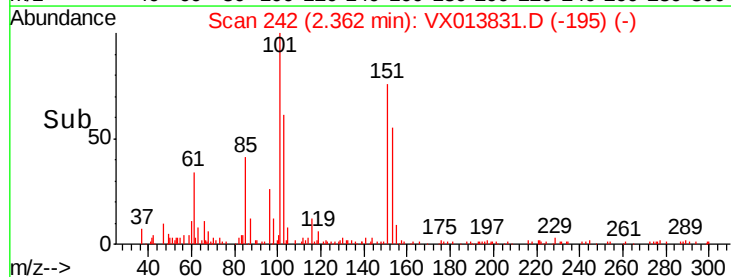
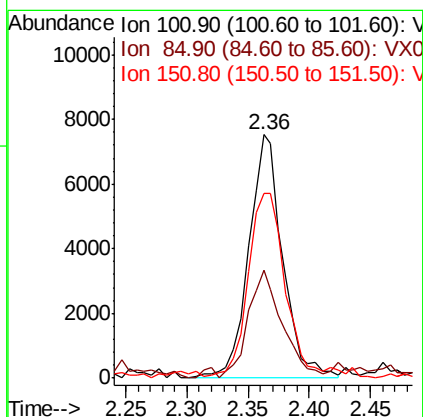
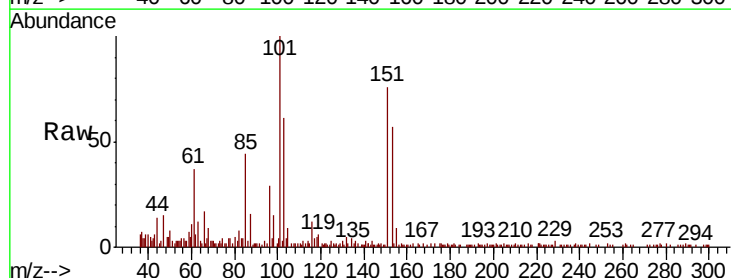
Tgt Ion: 101 Resp: 14556

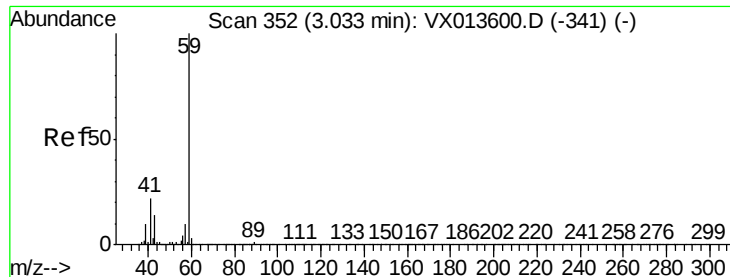
Ion Ratio Lower Upper

101 100

85 44.7 33.9 50.9

151 85.4 64.2 96.2



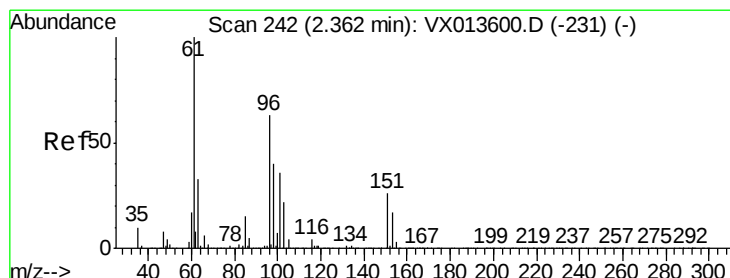
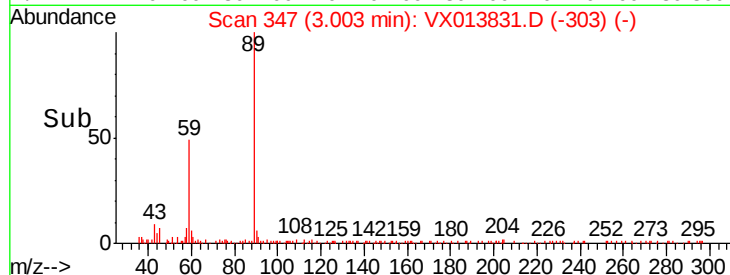
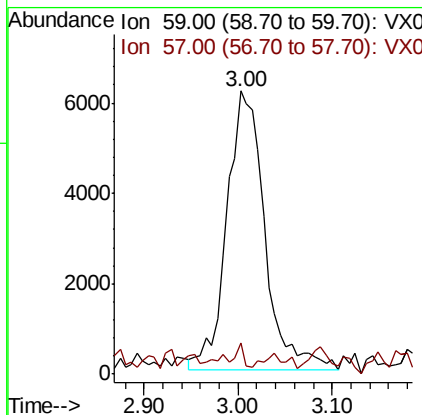
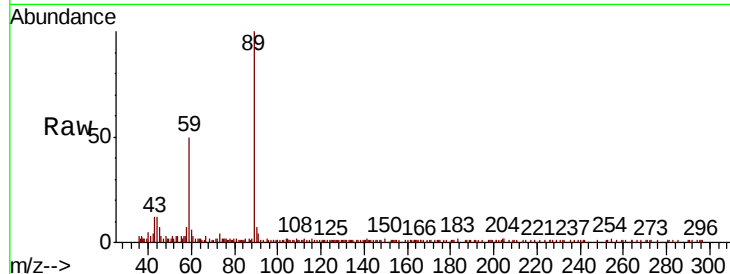


#11

Tert butyl alcohol
Concen: 10.785 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.03 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20191205DL

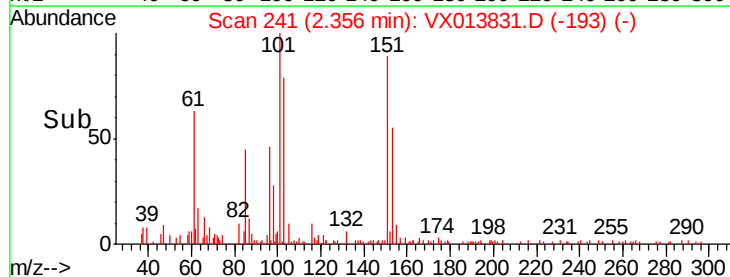
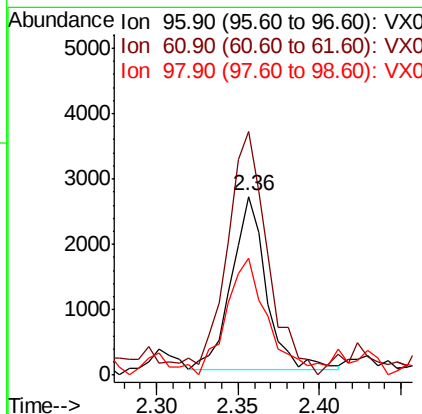
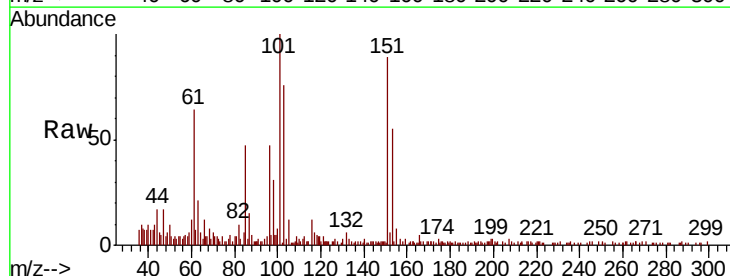
Tot Ion: 59 Resp: 17199
Ion Ratio Lower Upper
59 100
57 4.6 7.8 11.6#

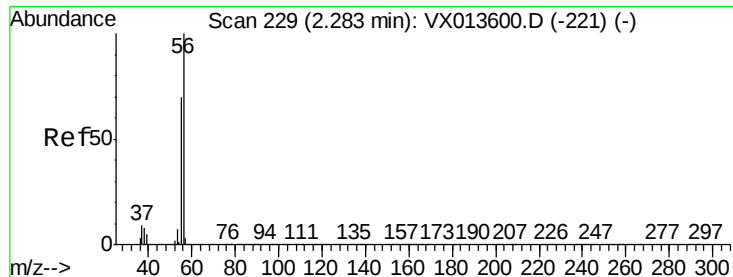


#12

1,1-Dichloroethene
Concen: 0.745 ug/l
RT: 2.36 min Scan# 241
Delta R.T. -0.01 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion: 96 Resp: 3944
Ion Ratio Lower Upper
96 100
61 130.1 126.6 190.0
98 61.0 50.6 76.0

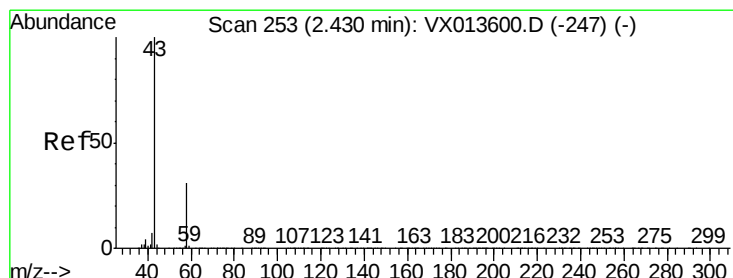
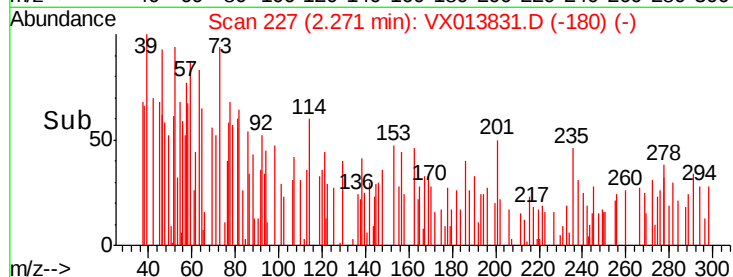
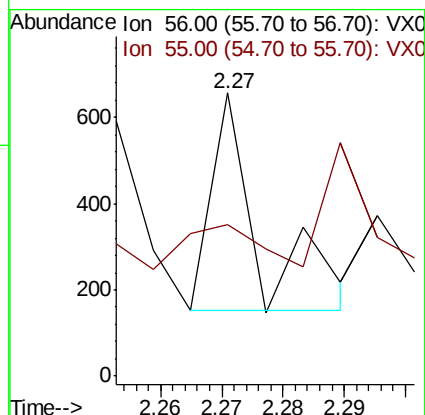
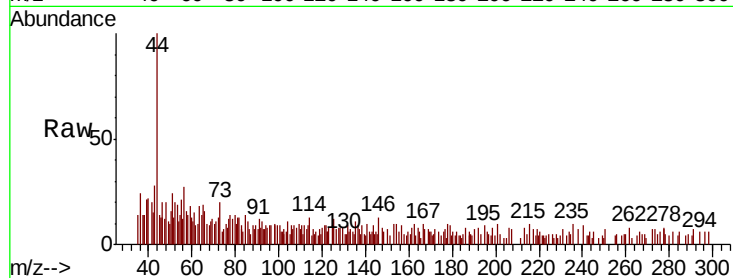




#13
Acrolein
Concen: 6.258 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

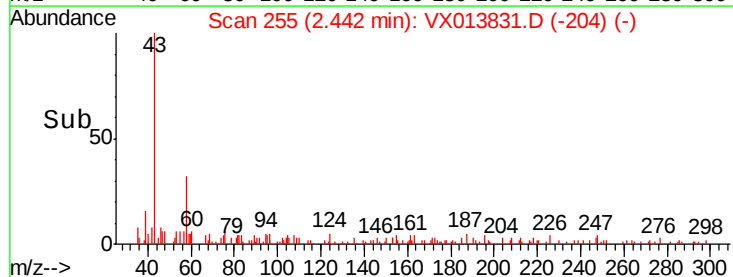
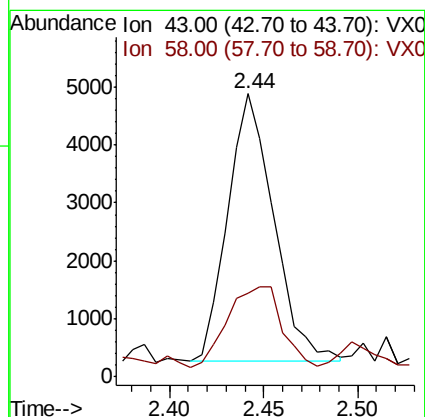
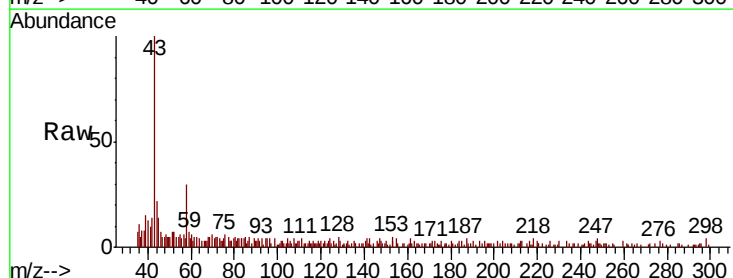
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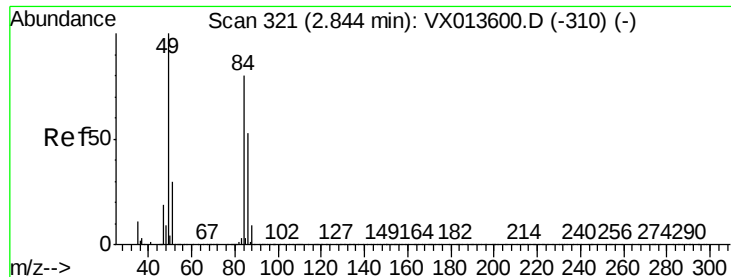
Tot Ion: 56 Resp: 278
Ion Ratio Lower Upper
56 100
55 32.4 56.2 84.4#



#16
Acetone
Concen: 2.453 ug/l
RT: 2.44 min Scan# 255
Delta R.T. 0.01 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion: 43 Resp: 7823
Ion Ratio Lower Upper
43 100
58 27.5 24.6 36.8

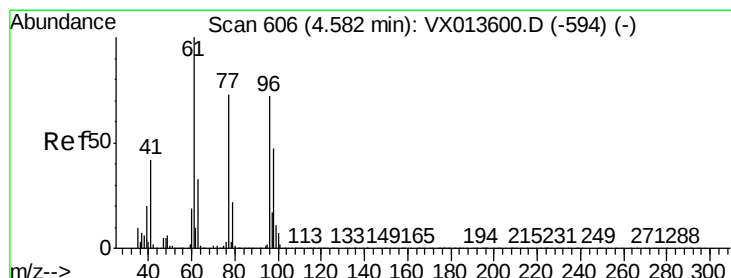
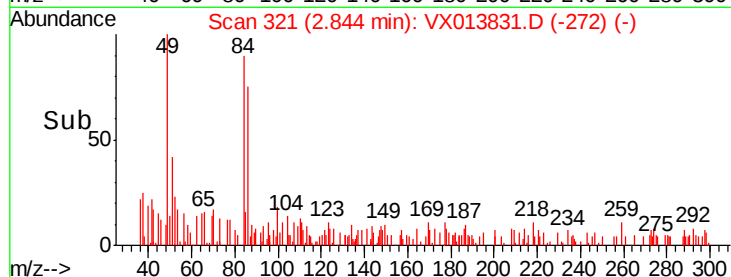
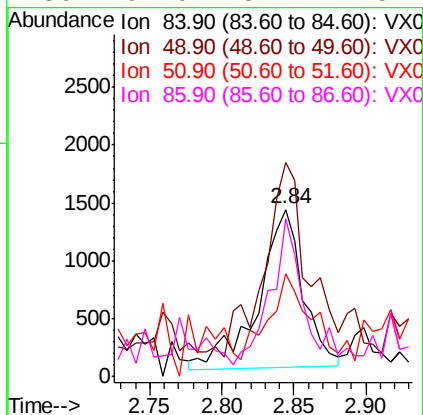
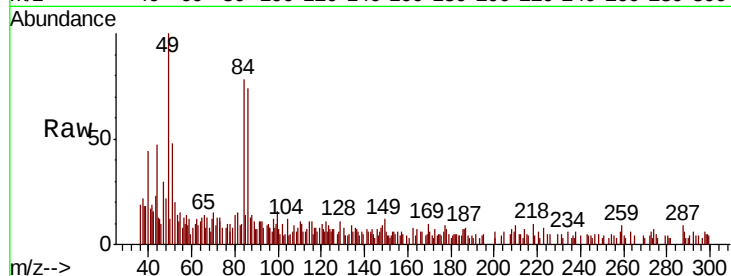




#20
Methvlene Chloride
Concen: 0.478 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

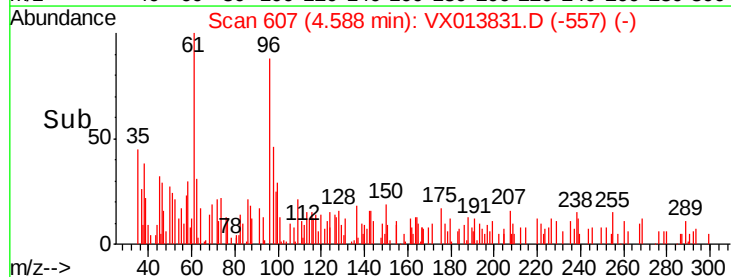
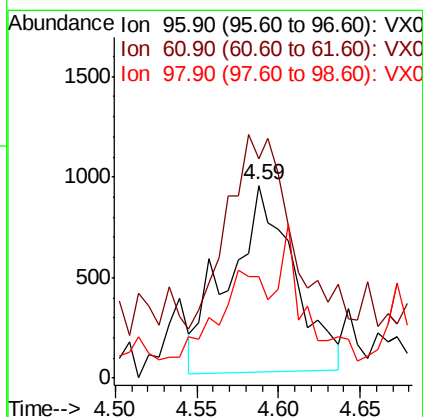
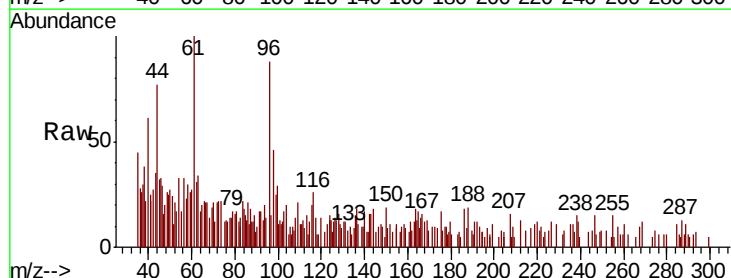
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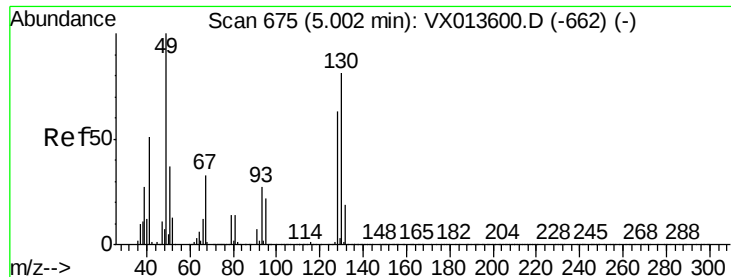
Tot Ion: 84 Resp: 2930
Ion Ratio Lower Upper
84 100
49 112.6 99.7 149.5
51 52.9 29.9 44.9#
86 91.0 52.2 78.4#



#27
cis-1,2-Dichloroethene
Concen: 0.388 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion: 96 Resp: 2572
Ion Ratio Lower Upper
96 100
61 103.2 0.0 286.4
98 34.8 0.0 127.4

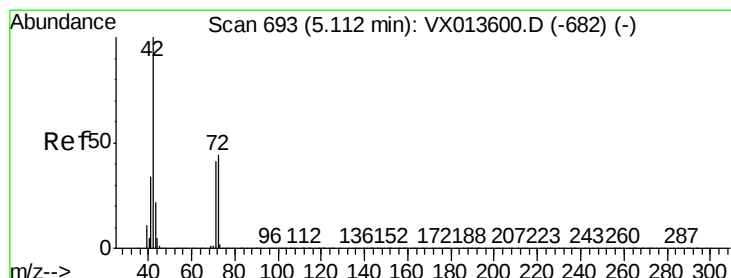
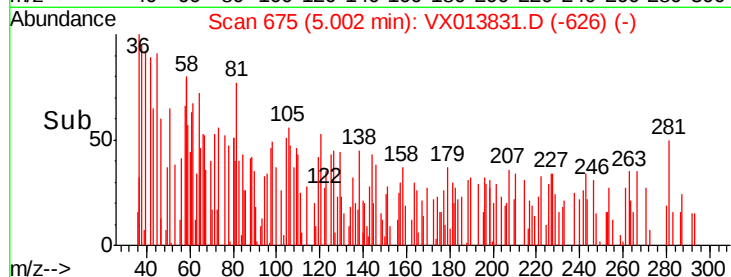
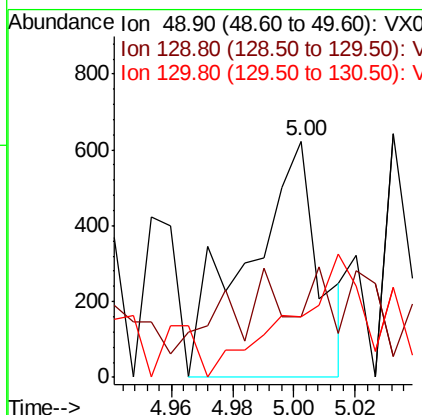
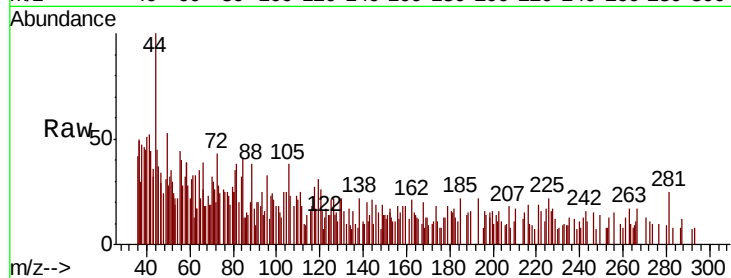




#28
Bromochloromethane
Concen: 0.241 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

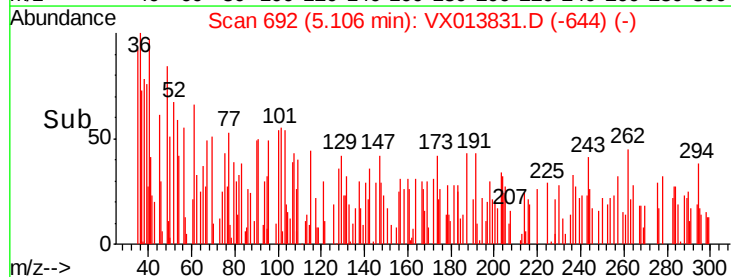
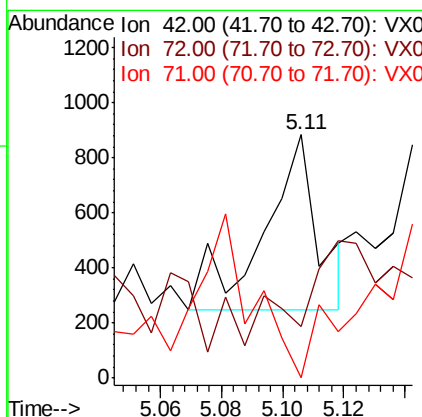
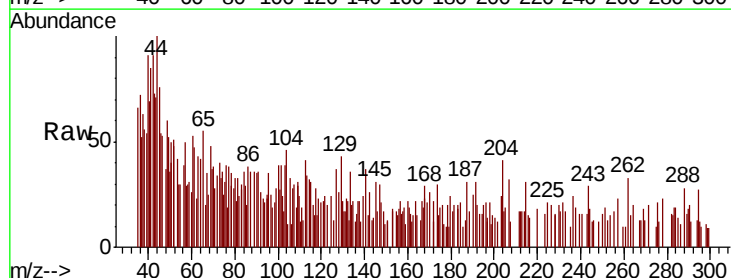
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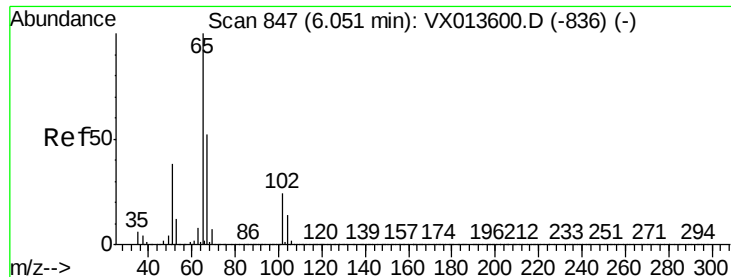
Tot Ion: 49 Resp: 1014
Ion Ratio Lower Upper
49 100
129 8.3 0.0 5.0#
130 65.5 65.4 98.0



#29
Tetrahydrofuran
Concen: 0.270 ug/l
RT: 5.11 min Scan# 692
Delta R.T. -0.01 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion: 42 Resp: 788
Ion Ratio Lower Upper
42 100
72 134.1 36.3 54.5#
71 0.0 33.2 49.8#





#33

1,2-Dichloroethane-d4

Concen: 47.453 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

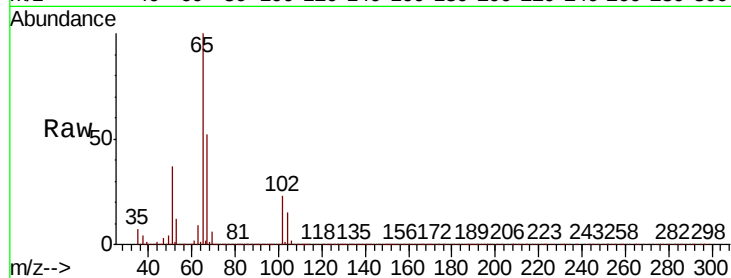
TT101D2-20191205DL

Tot Ion: 65 Resp: 306577

Ion Ratio Lower Upper

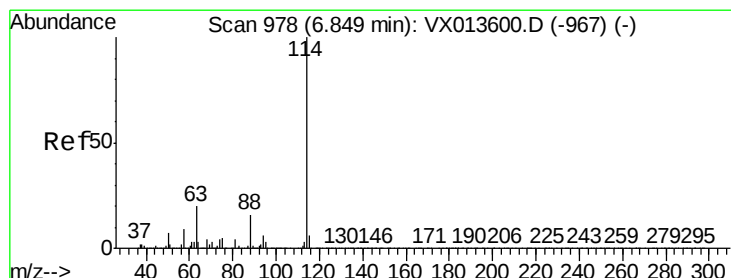
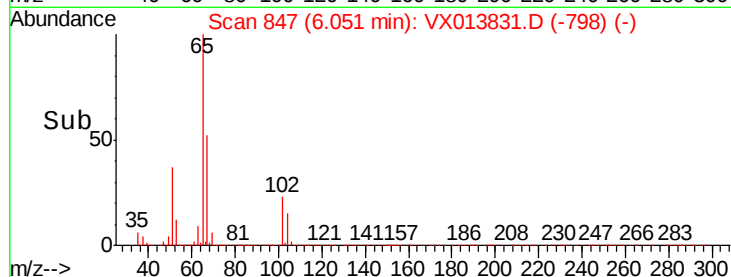
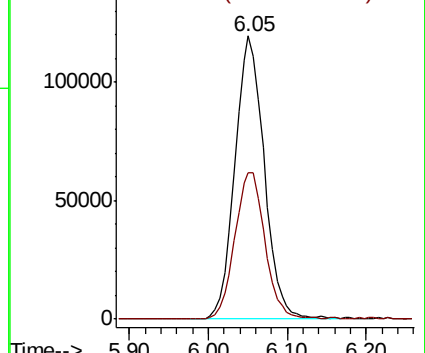
65 100

67 53.1 0.0 104.4



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: VX013831.D

Acq: 07 Dec 2019 04:17

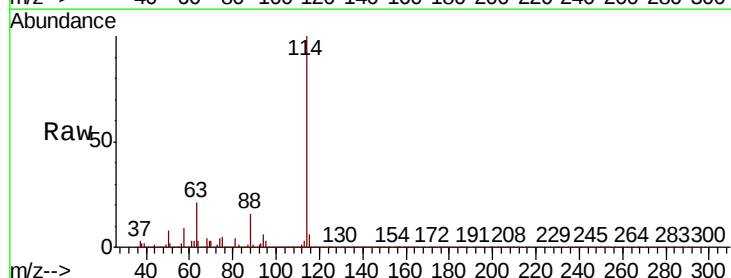
Tgt Ion: 114 Resp: 843607

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

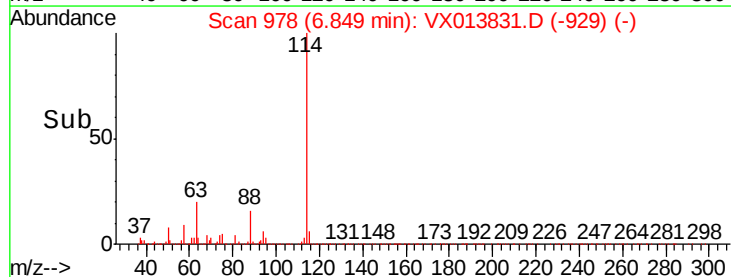
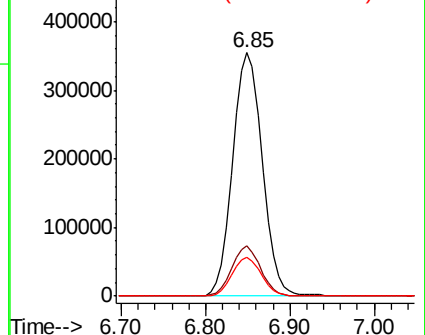
88 16.1 0.0 31.4

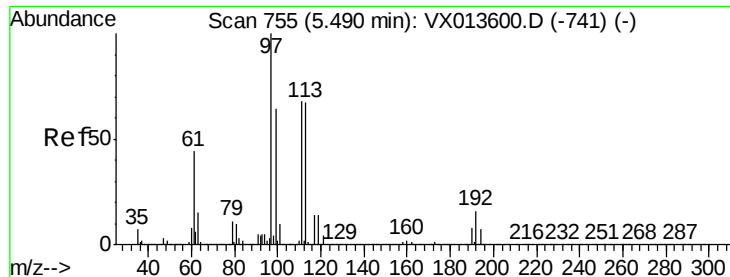


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.945 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20191205DL

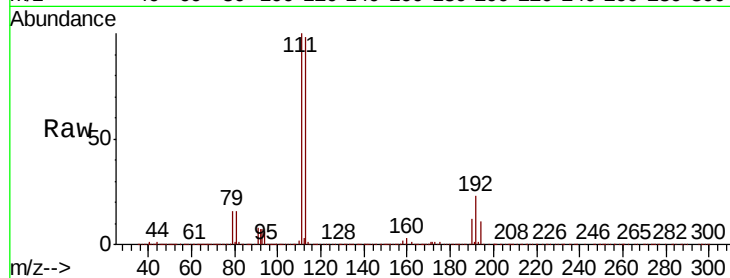
Tot Ion:113 Resp: 250047

Ion Ratio Lower Upper

113 100

111 101.5 83.6 125.4

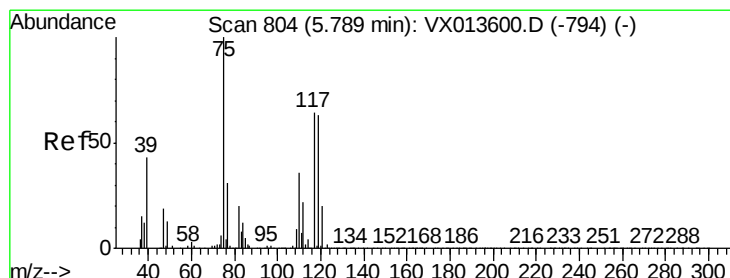
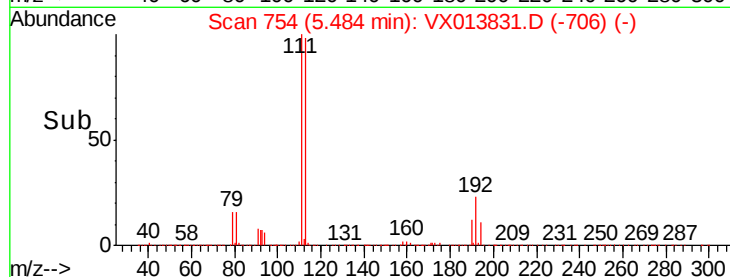
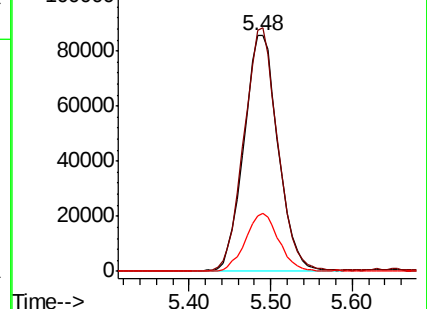
192 24.0 19.2 28.8



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: 4.878 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

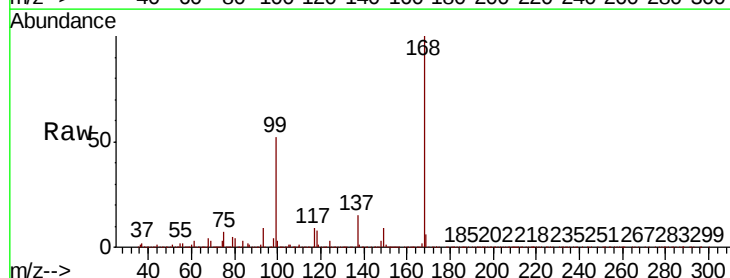
Tgt Ion: 75 Resp: 37355

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.1#

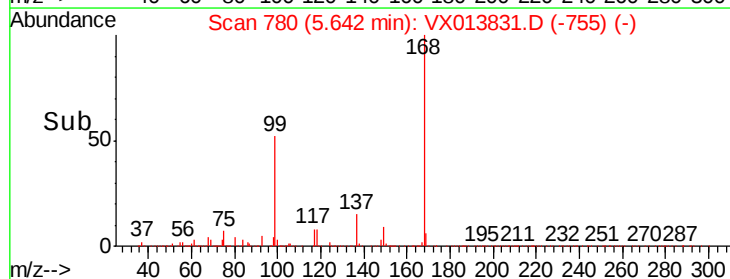
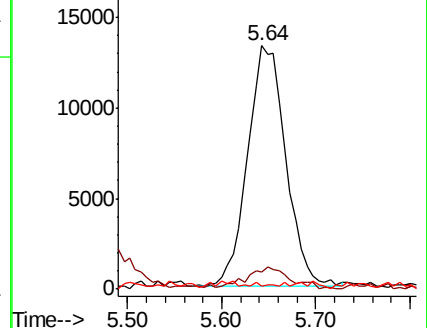
77 0.3 24.5 36.7#

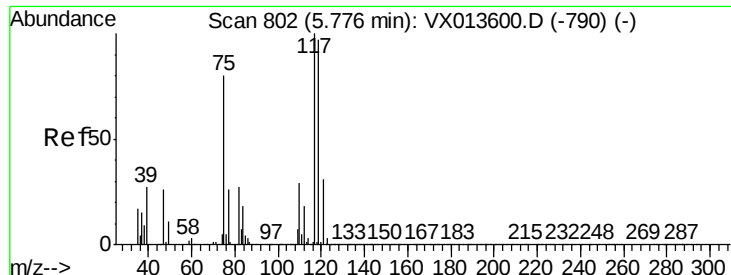


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.695 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20191205DL

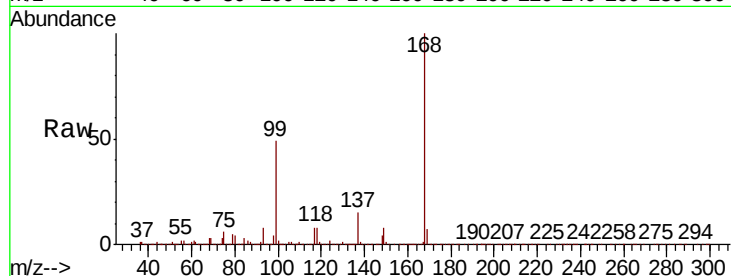
Tot Ion:117 Resp: 47277

Ion Ratio Lower Upper

117 100

119 6.3 77.5 116.3#

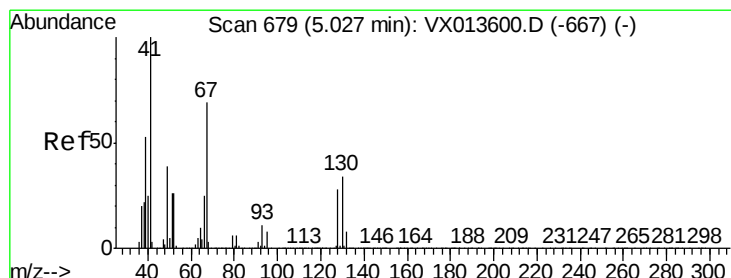
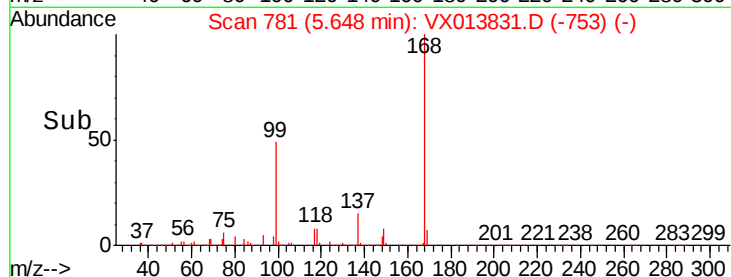
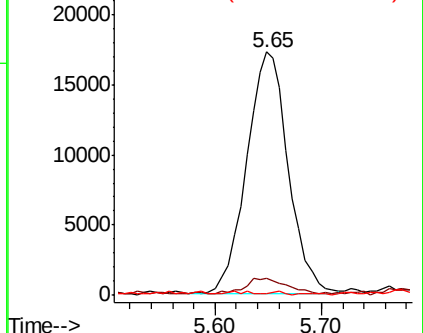
121 0.0 25.0 37.6#



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: 0.209 ug/l

RT: 5.04 min Scan# 681

Delta R.T. 0.01 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Tgt Ion: 41 Resp: 985

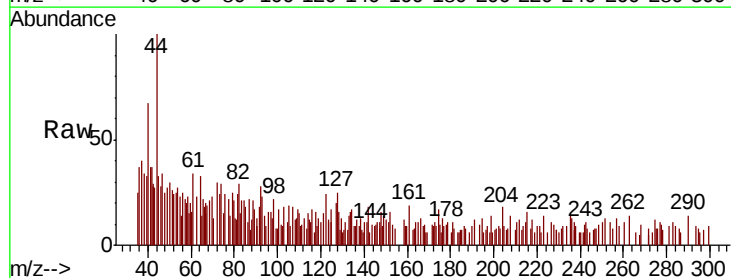
Ion Ratio Lower Upper

41 100

39 10.6 42.9 64.3#

67 32.3 57.4 86.0#

52 29.2 22.4 33.6

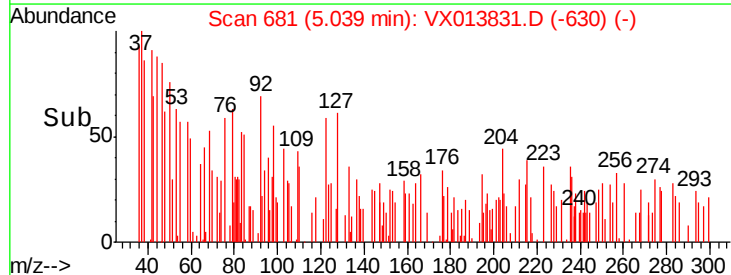
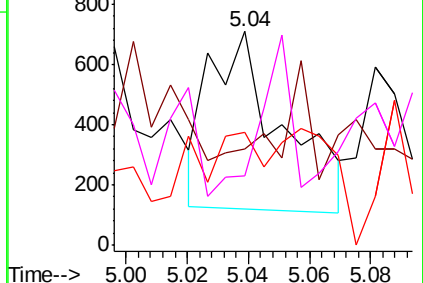


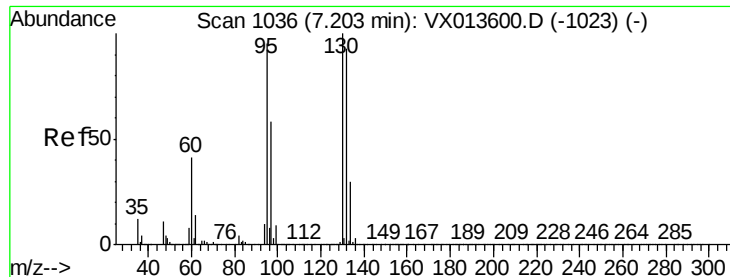
Abundance Ion 41.00 (40.70 to 41.70): VX0

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





#44

Trichloroethene

Concen: 113.756 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

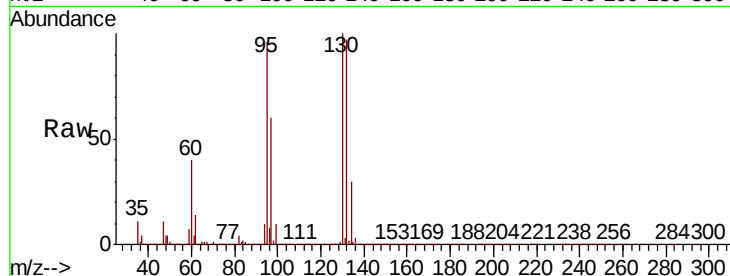
TT101D2-20191205DL

Tot Ion:130 Resp: 728154

Ion Ratio Lower Upper

130 100

95 96.1 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

400000

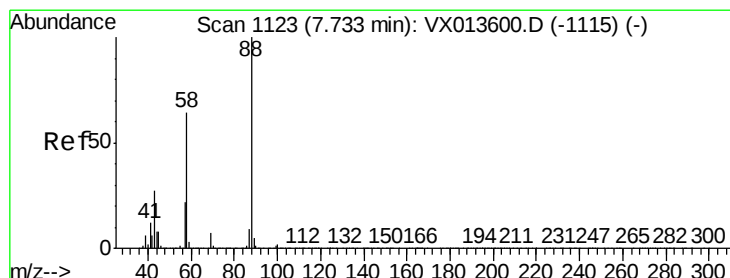
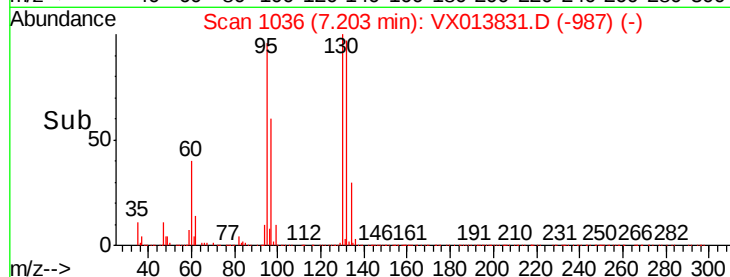
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 2.847 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

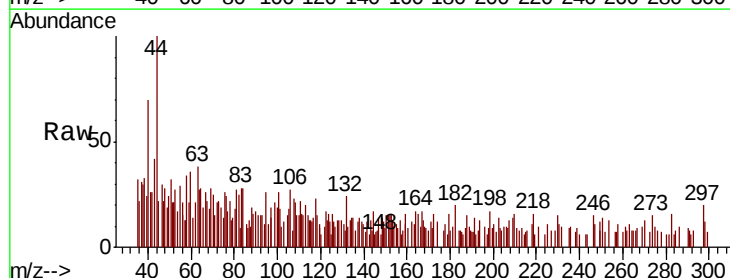
Tgt Ion: 88 Resp: 438

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 45.0 54.6 82.0#



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

1000

800

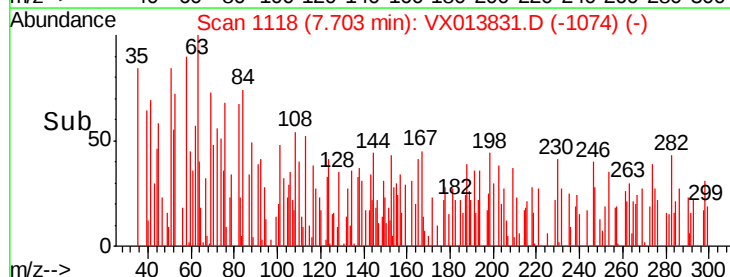
600

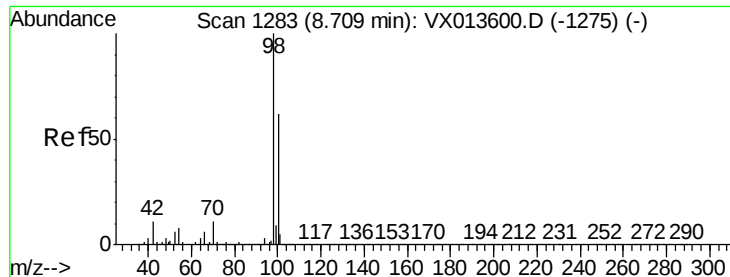
400

200

0

Time-->

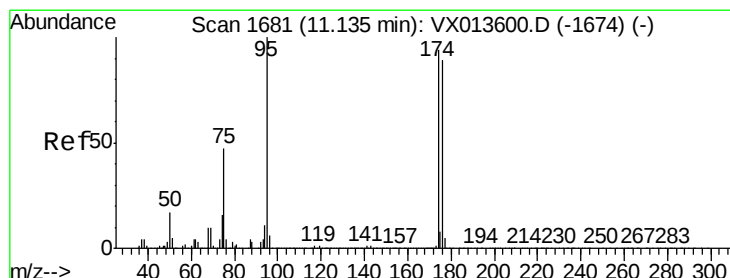
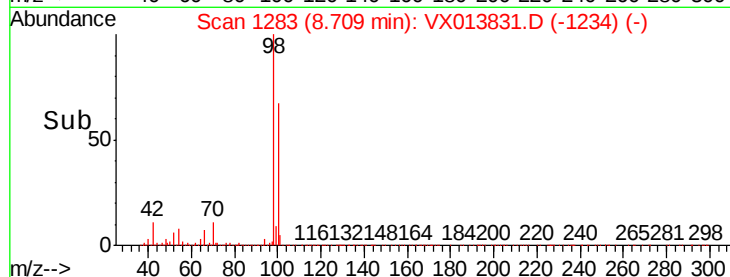
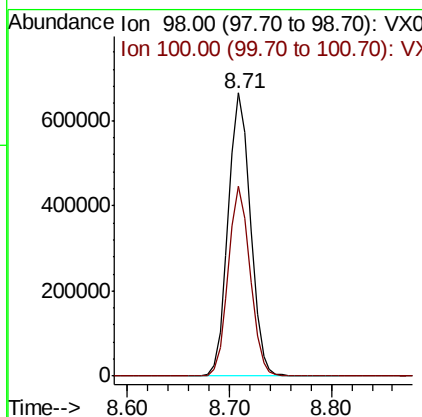
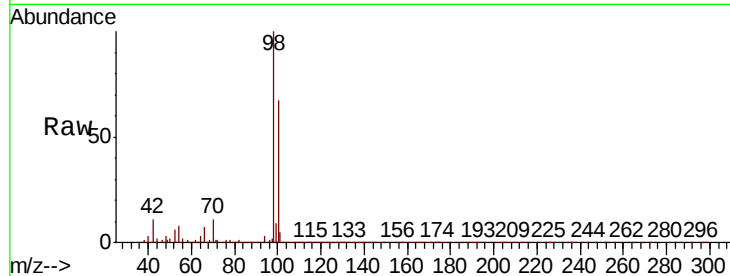




#50
Toluene-d8
Concen: 49.472 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

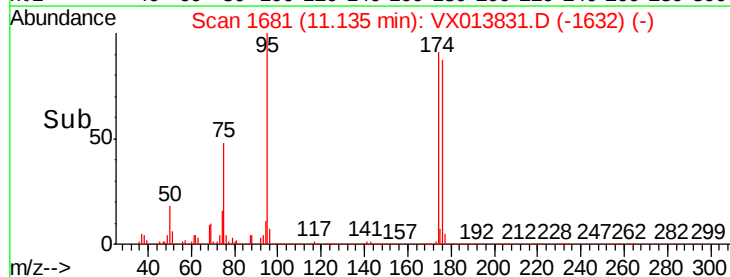
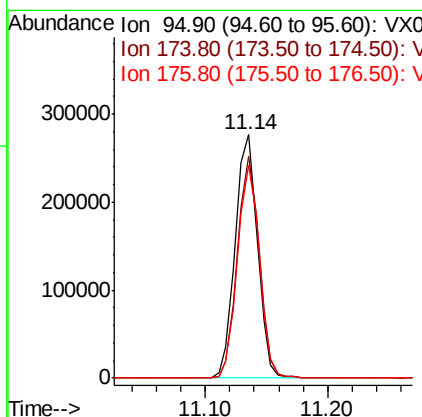
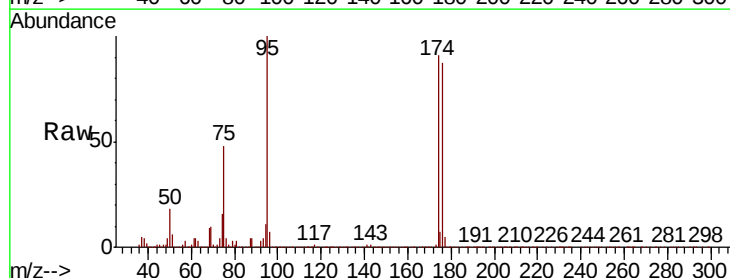
Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20191205DL

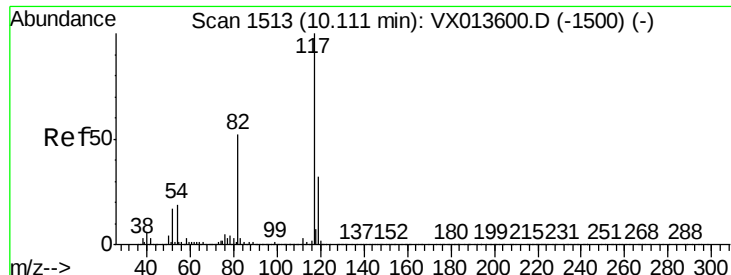
Tot Ion: 98 Resp: 1005229
Ion Ratio Lower Upper
98 100
100 65.9 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 47.207 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion: 95 Resp: 345898
Ion Ratio Lower Upper
95 100
174 89.9 0.0 180.0
176 86.6 0.0 173.6

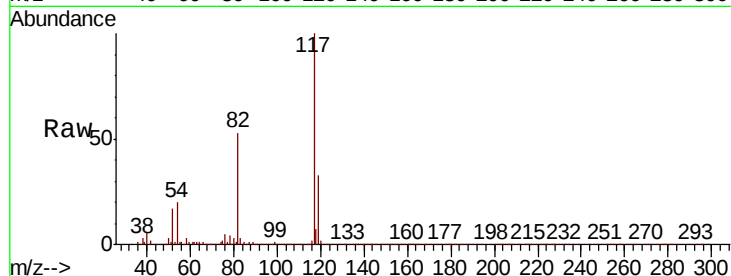




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20191205DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	41.8	62.8
119	32.5	25.8	38.8

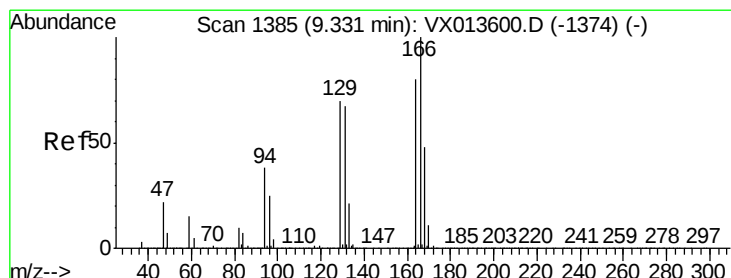
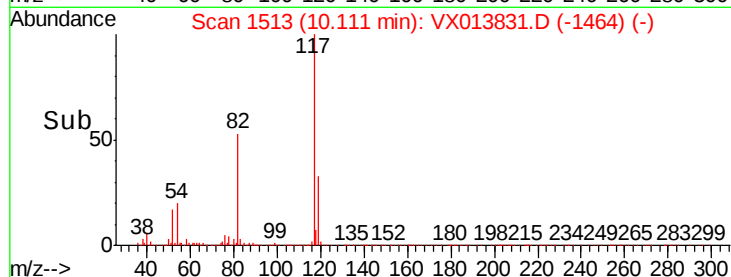
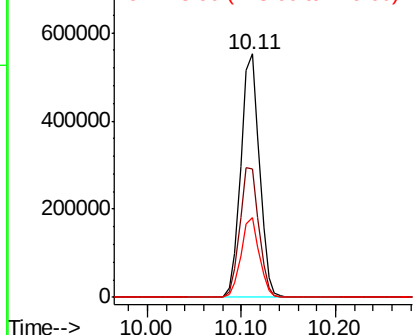


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 0.359 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	142.1	99.7	149.5
129	111.9	70.1	105.1
131	70.7	66.9	100.3

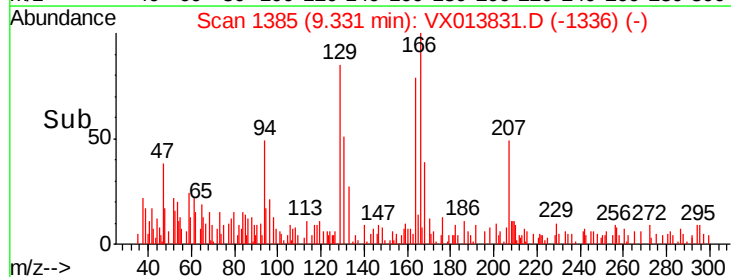
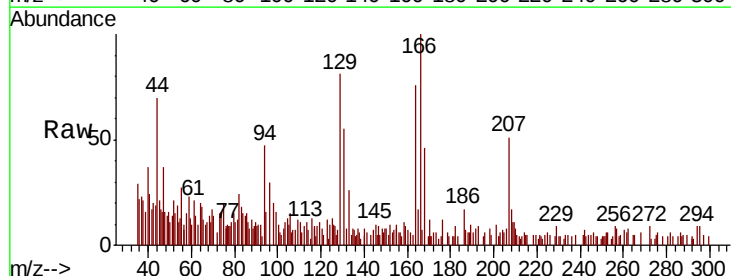
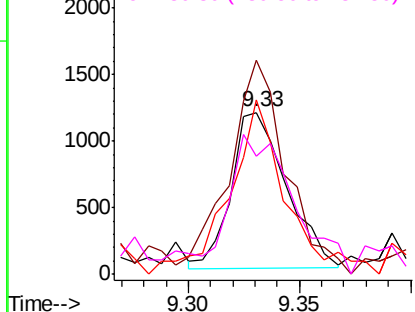
Abundance

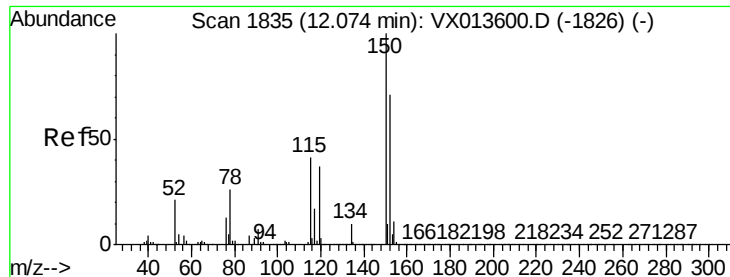
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



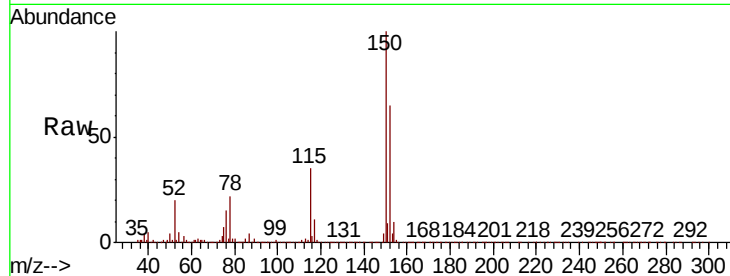


#72

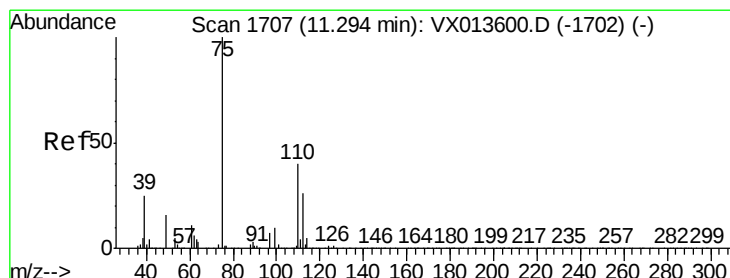
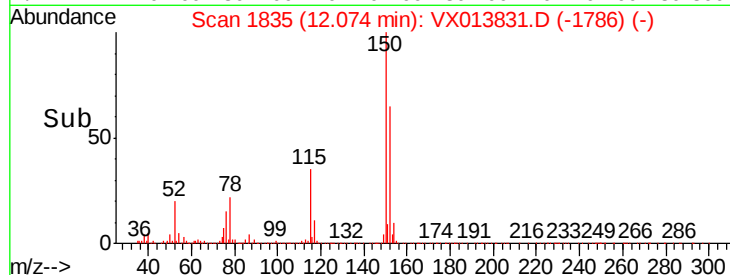
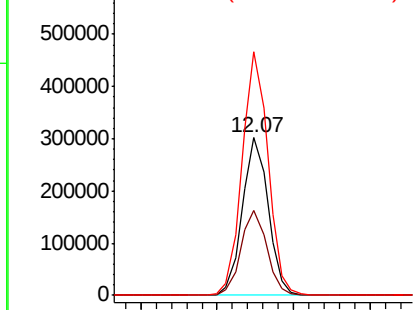
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20191205DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.2	38.4	115.1
150	154.1	0.0	346.8



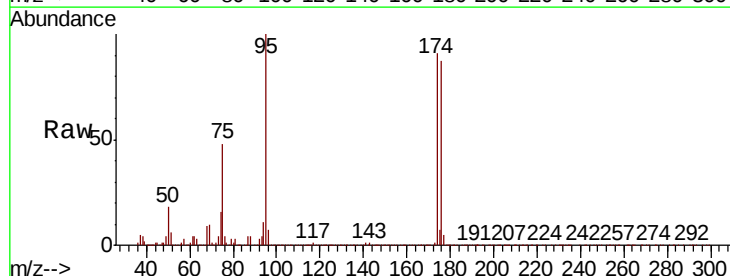
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



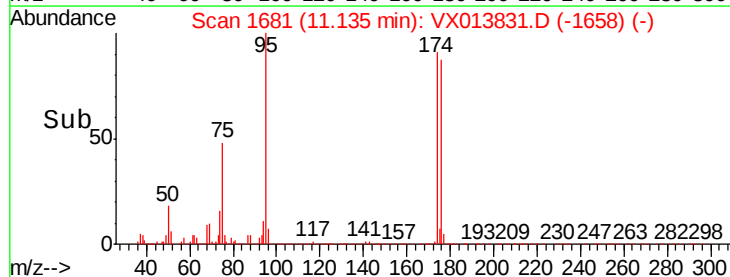
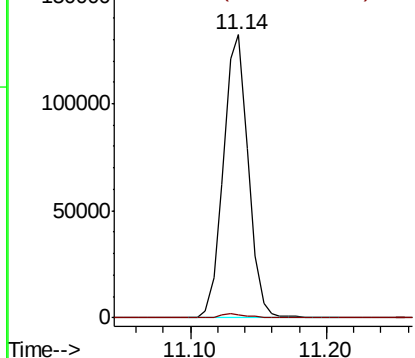
#76

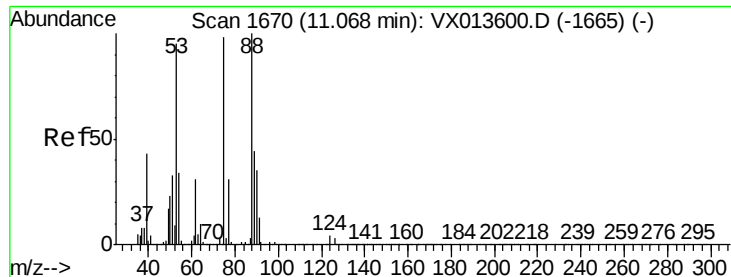
1,2,3-Trichloropropane
Concen: 20.900 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX013831.D
Acq: 07 Dec 2019 04:17

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	19.1	57.5#



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: 57.179 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013831.D

Acq: 07 Dec 2019 04:17

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20191205DL

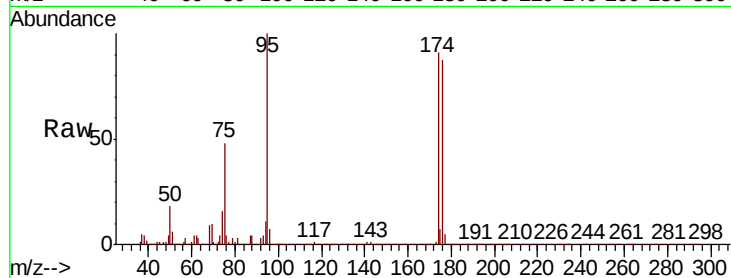
Tot Ion: 75 Resp: 167143

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.2 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

