

Data File : VX013965.D
Acq On : 12 Dec 2019 00:54
Operator : JC/SP
Sample : K6249-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ191I-20191208

Quant Time: Dec 12 04:09:58 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	534937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	818632	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	732208	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	329298	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	303760	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
35) Dibromofluoromethane	5.48	113	239813	47.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.78%	
50) Toluene-d8	8.71	98	969975	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
62) 4-Bromofluorobenzene	11.14	95	328530	46.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.40%	

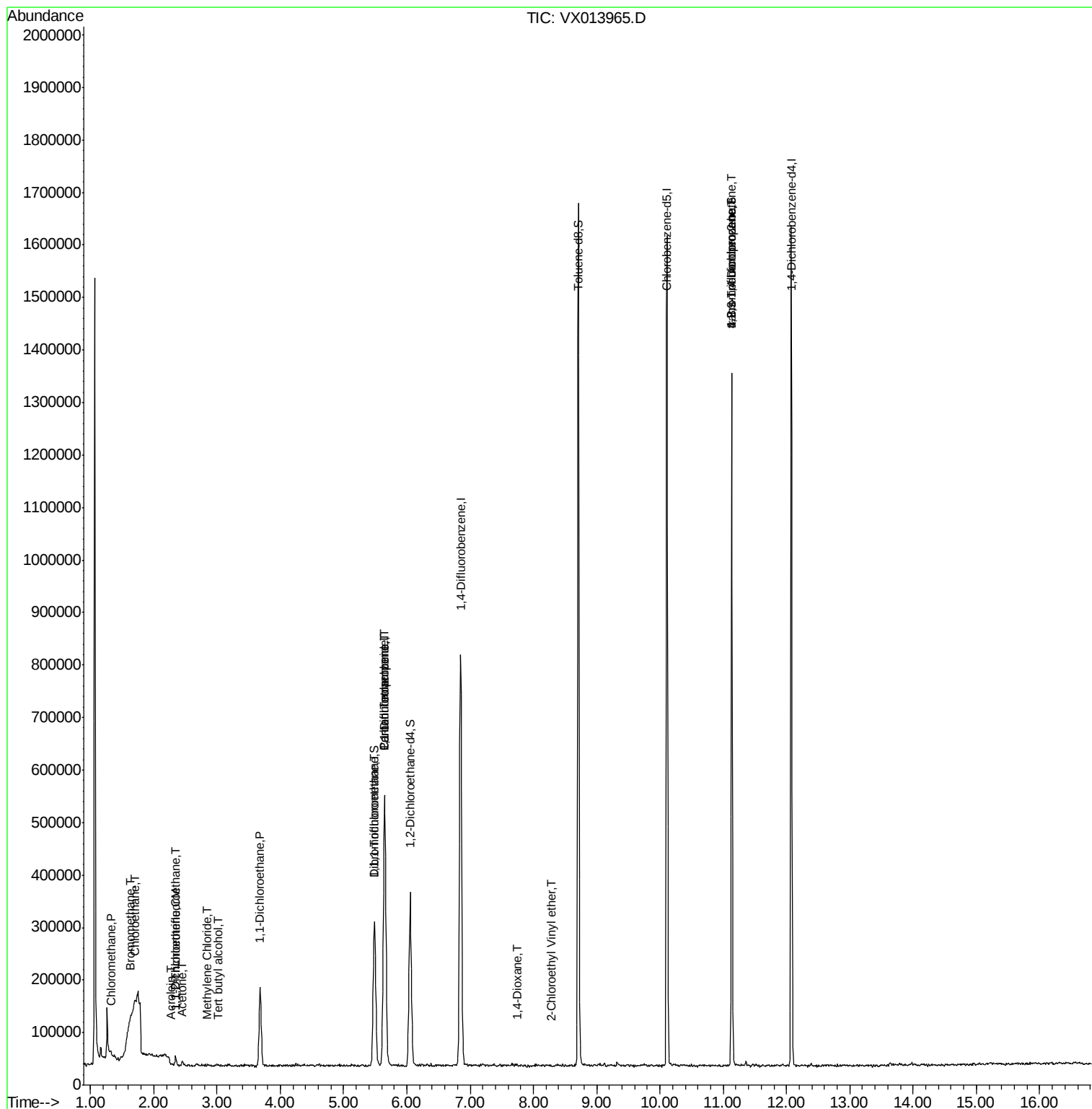
Target Compounds			Qvalue			
3) Chloromethane	1.31	50	3717	0.556	ug/l #	80
5) Bromomethane	1.63	94	3892	0.771	ug/l	81
6) Chloroethane	1.70	64	6193	1.447	ug/l #	86
9) 1,1,2-Trichlorotrifluoroet	2.34	101	1888	0.370	ug/l #	85
11) Tert butyl alcohol	3.02	59	1456	0.950	ug/l #	80
12) 1,1-Dichloroethene	2.34	96	6142	1.206	ug/l #	89
13) Acrolein	2.27	56	126	6.124	ug/l #	1
16) Acetone	2.45	43	6089	1.986	ug/l	91
20) Methylene Chloride	2.84	84	2074	0.352	ug/l #	72
24) 1,1-Dichloroethane	3.68	63	172551	17.743	ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	4062	0.493	ug/l #	51
36) 1,1-Dichloropropene	5.65	75	35456	4.771	ug/l #	52
38) Carbon Tetrachloride	5.64	117	45820	6.687	ug/l #	16
49) 1,4-Dioxane	7.74	88	213	1.427	ug/l #	24
58) 2-Chloroethyl Vinyl ether	8.28	63	894	0.250	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	162216	21.902	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	162216	59.920	ug/l #	11

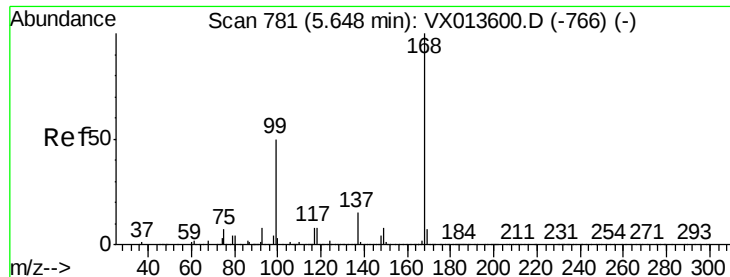
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 26 15:53:00 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

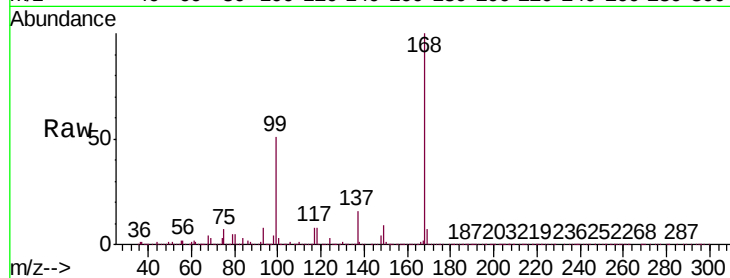
SA-PZ191I-20191208

Tgt Ion:168 Resp: 534937

Ion Ratio Lower Upper

168 100

99 50.9 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

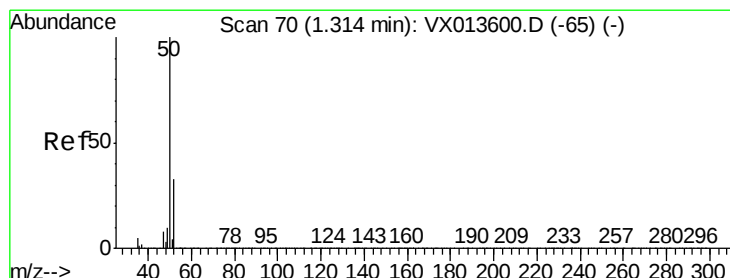
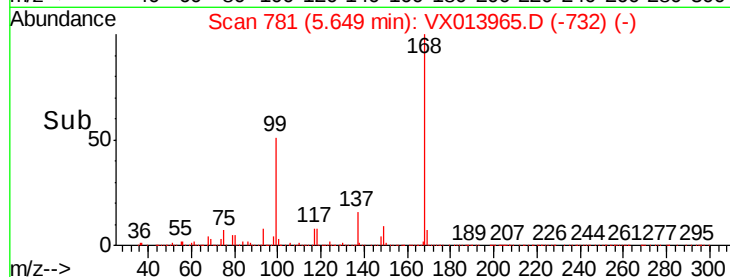
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.556 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX013965.D

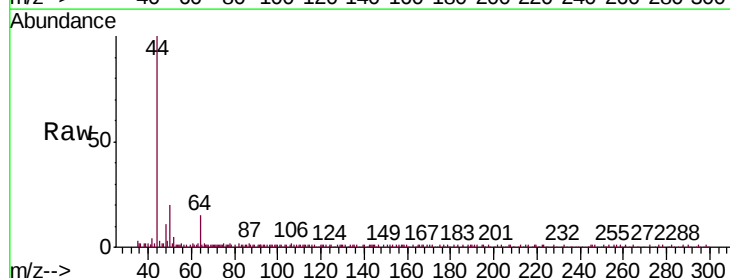
Acq: 12 Dec 2019 00:54

Tgt Ion: 50 Resp: 3717

Ion Ratio Lower Upper

50 100

52 21.0 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

4000

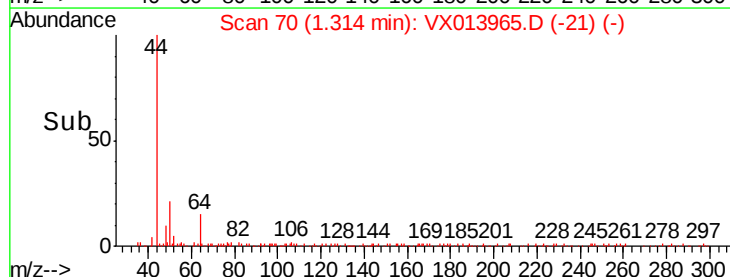
3000

2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.771 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

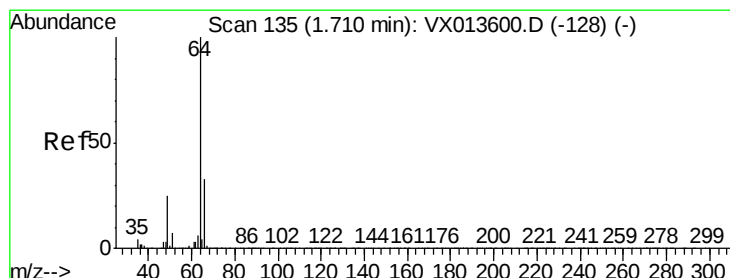
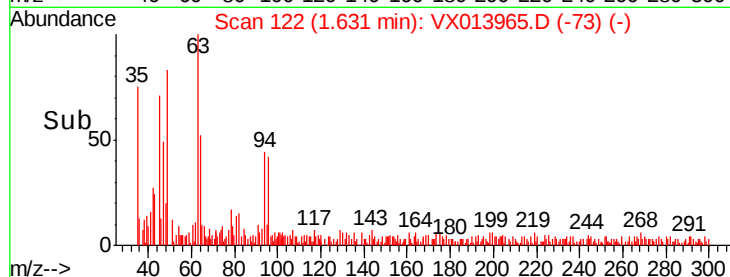
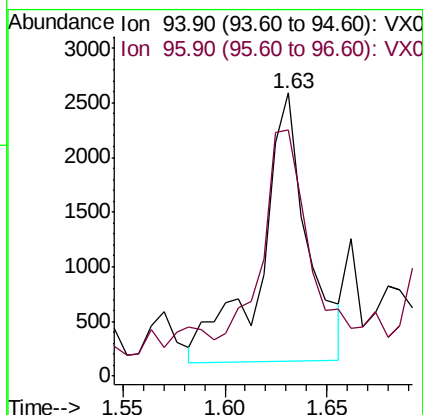
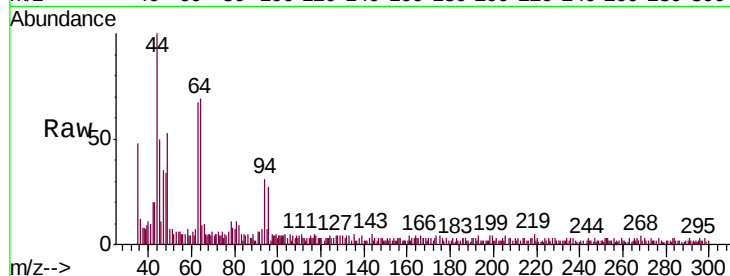
SA-PZ191I-20191208

Tgt Ion: 94 Resp: 3892

Ion Ratio Lower Upper

94 100

96 77.4 77.0 115.4



#6

Chloroethane

Concen: 1.447 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013965.D

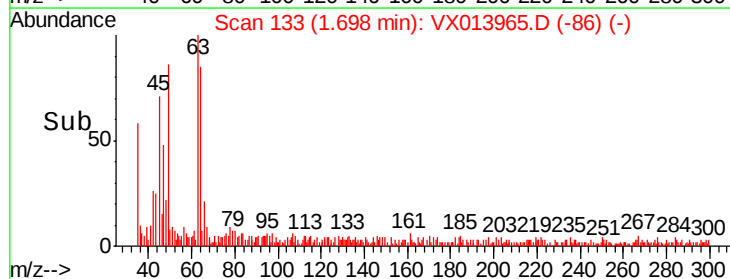
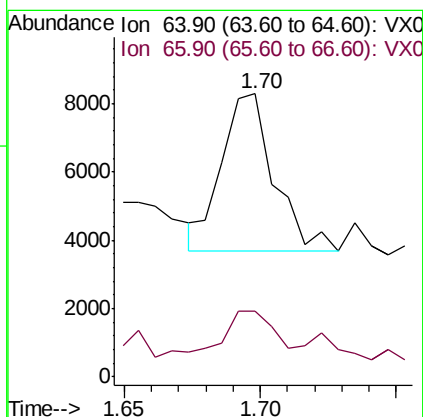
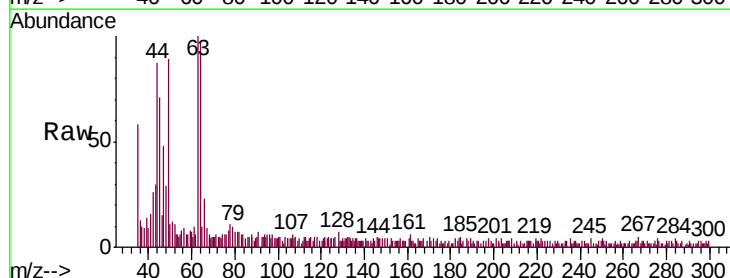
Acq: 12 Dec 2019 00:54

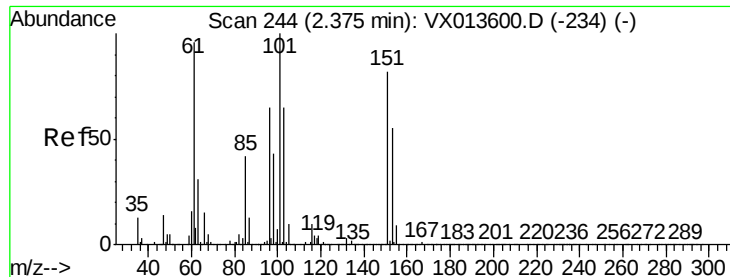
Tgt Ion: 64 Resp: 6193

Ion Ratio Lower Upper

64 100

66 25.6 26.7 40.1#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.370 ug/l

RT: 2.34 min Scan# 239

Delta R.T. -0.03 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

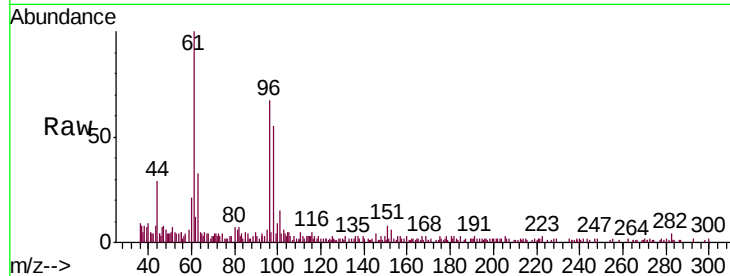
Tgt Ion:101 Resp: 1888

Ion Ratio Lower Upper

101 100

85 25.8 33.9 50.9#

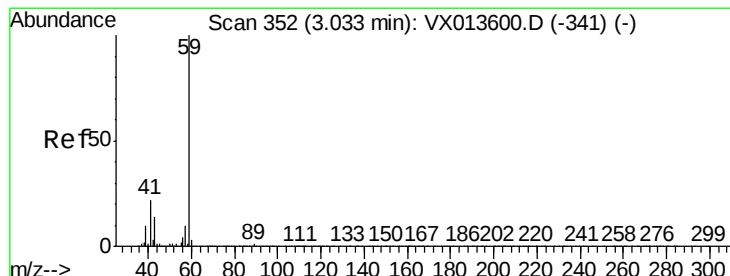
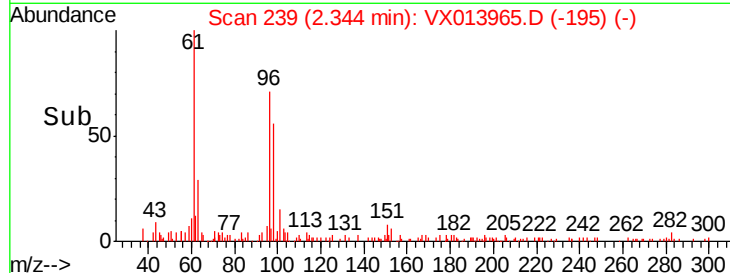
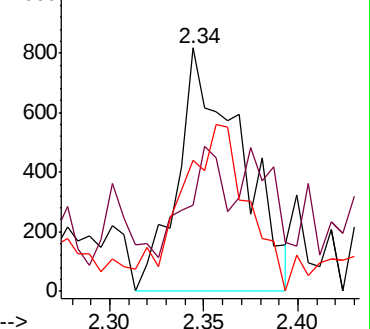
151 72.0 64.2 96.2



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



#11

Tert butyl alcohol

Concen: 0.950 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013965.D

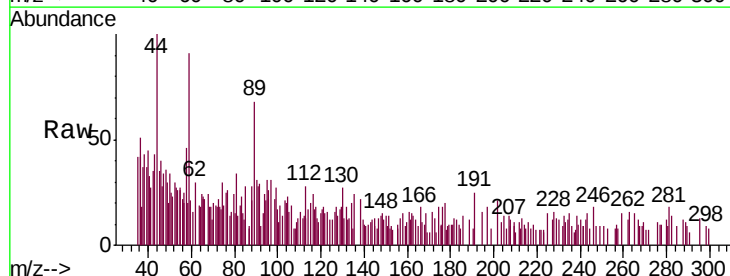
Acq: 12 Dec 2019 00:54

Tgt Ion: 59 Resp: 1456

Ion Ratio Lower Upper

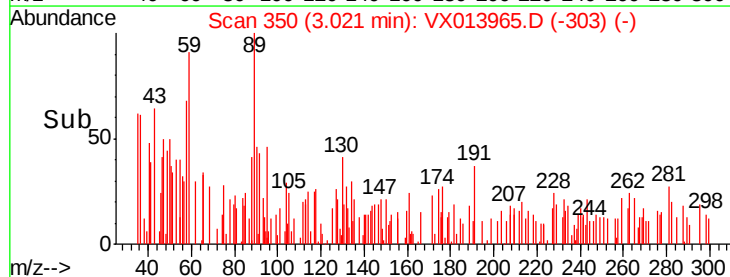
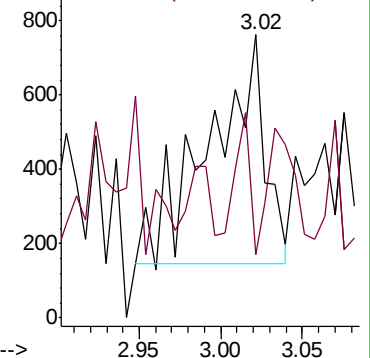
59 100

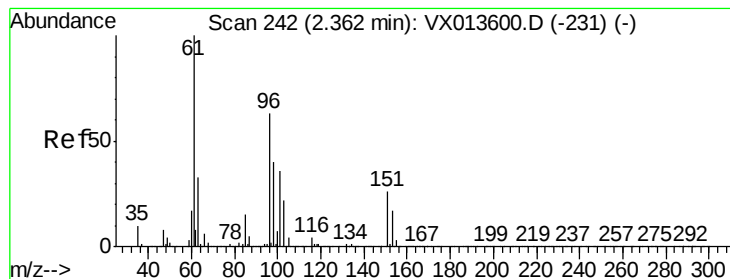
57 16.9 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.206 ug/l

RT: 2.34 min Scan# 239

Delta R.T. -0.02 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

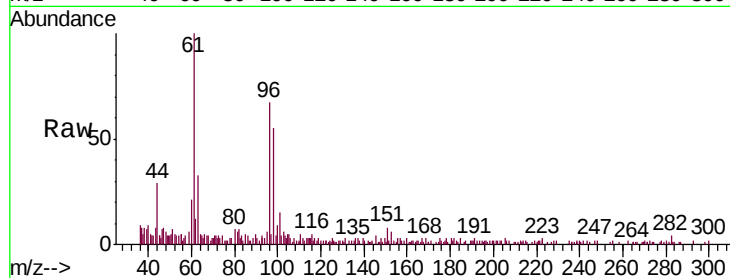
Tgt Ion: 96 Resp: 6142

Ion Ratio Lower Upper

96 100

61 148.4 126.6 190.0

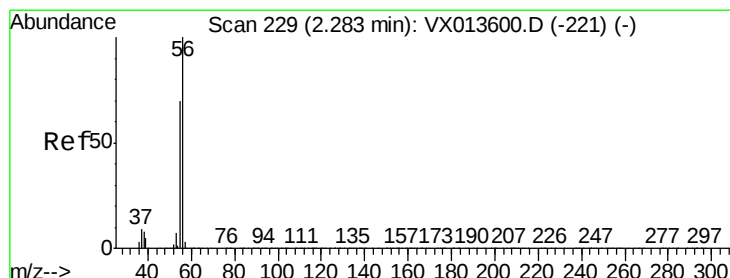
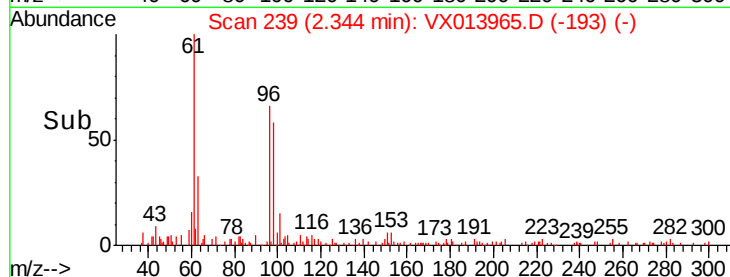
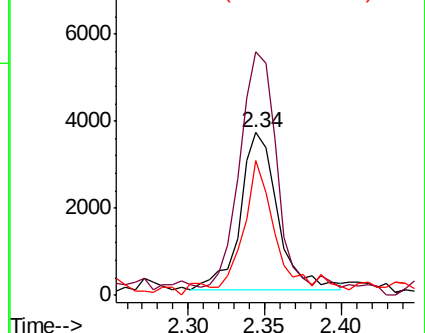
98 79.8 50.6 76.0#



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



#13

Acrolein

Concen: 6.124 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013965.D

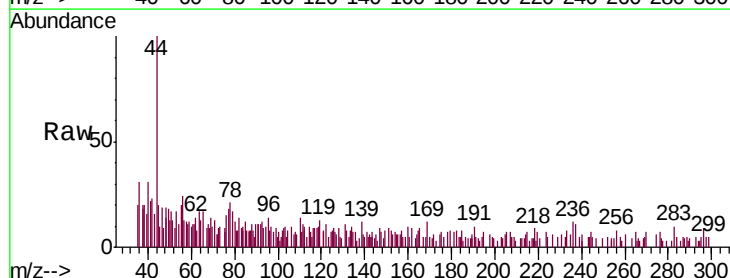
Acq: 12 Dec 2019 00:54

Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

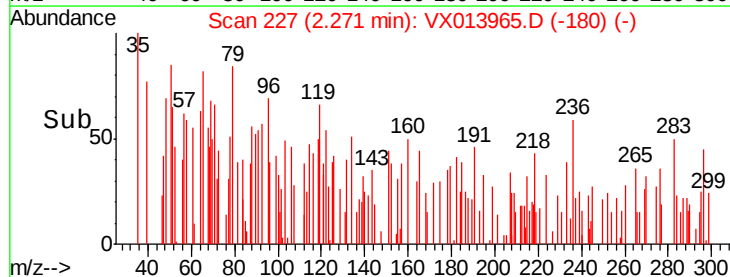
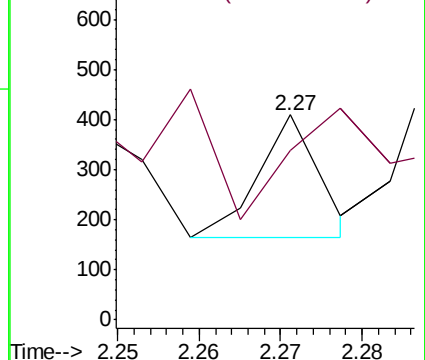
56 100

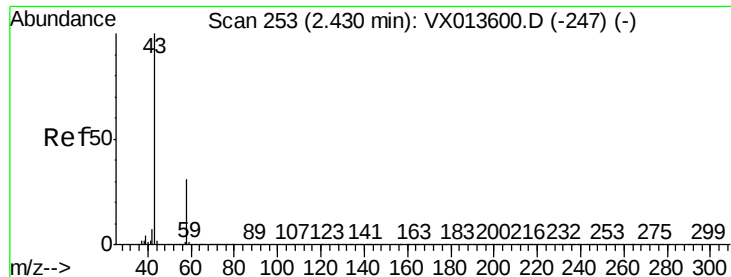
55 182.5 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.986 ug/l

RT: 2.45 min Scan# 257

Delta R.T. 0.02 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

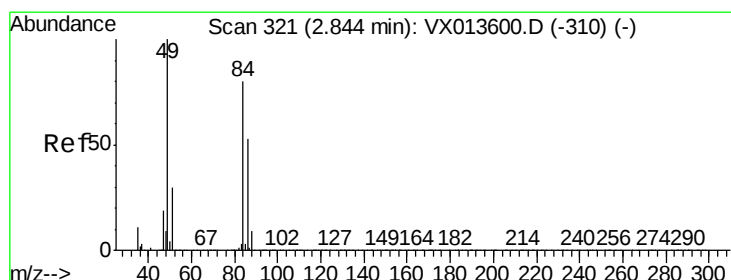
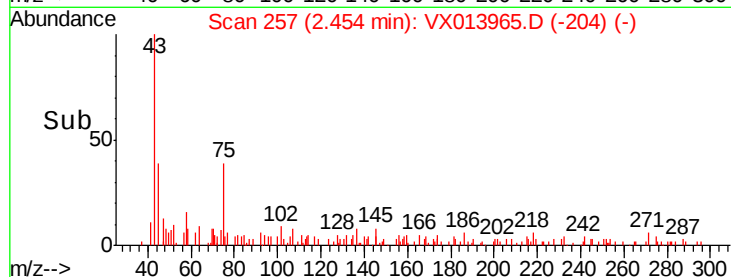
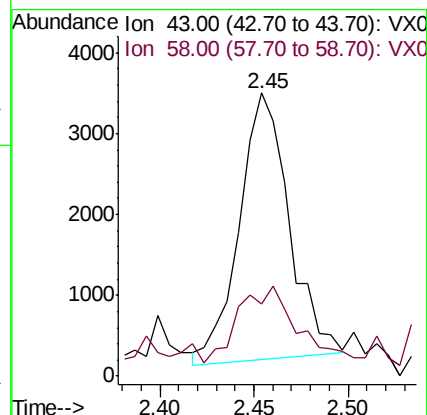
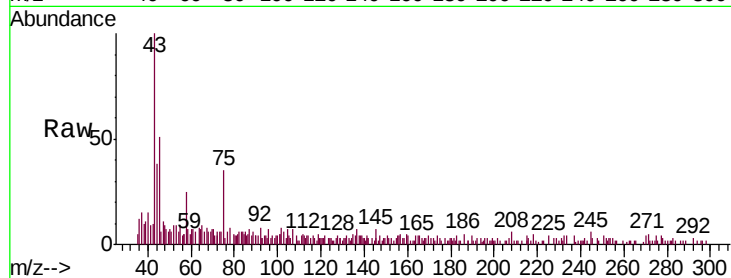
SA-PZ191I-20191208

Tgt Ion: 43 Resp: 6089

Ion Ratio Lower Upper

43 100

58 25.8 24.6 36.8



#20

Methylene Chloride

Concen: 0.352 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Tgt Ion: 84 Resp: 2074

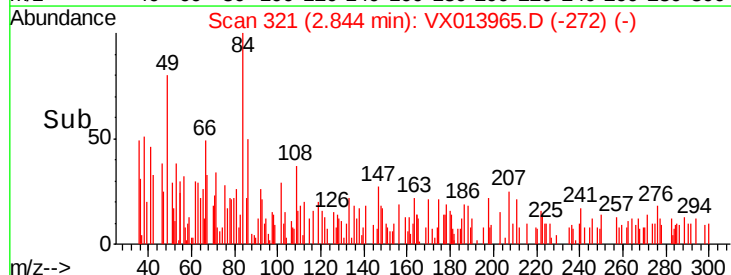
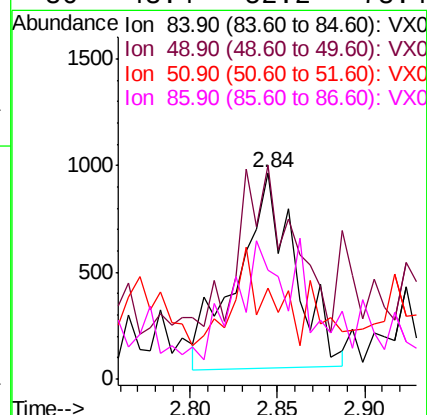
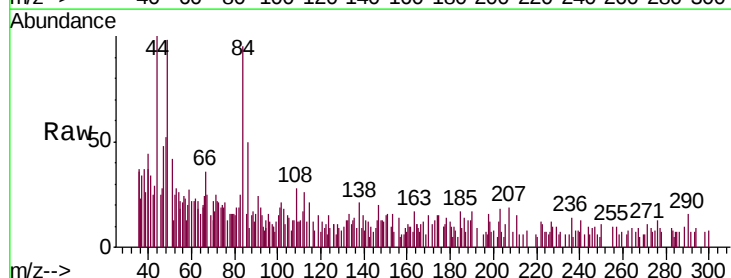
Ion Ratio Lower Upper

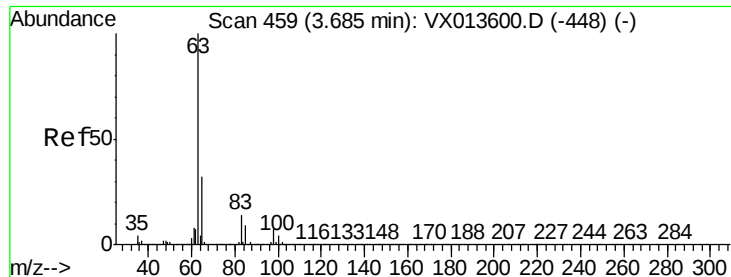
84 100

49 84.9 99.7 149.5#

51 32.6 29.9 44.9

86 43.4 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 17.743 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.01 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

Tgt Ion: 63 Resp: 172551

Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.4

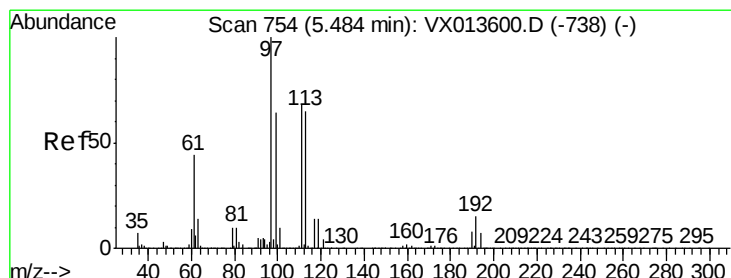
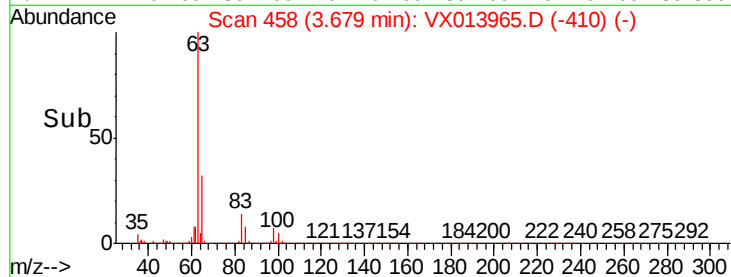
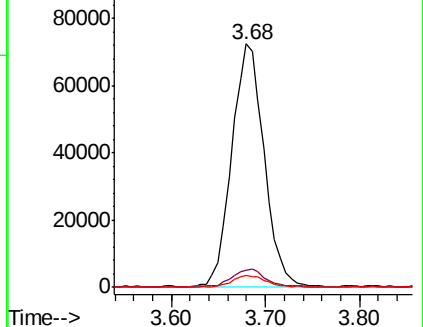
100 4.7 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#32

1,1,1-Trichloroethane

Concen: 0.493 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

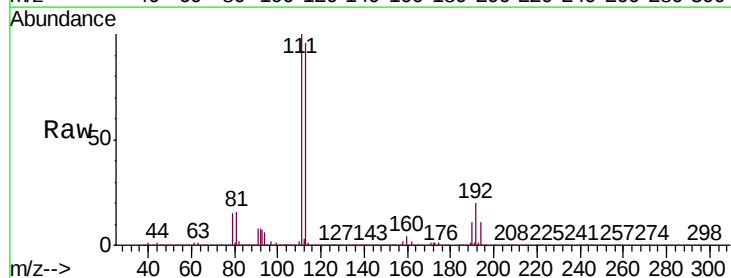
Tgt Ion: 97 Resp: 4062

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

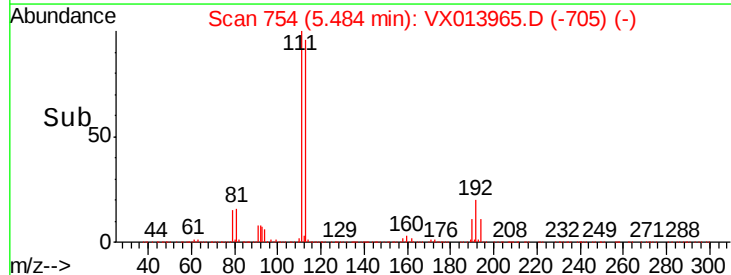
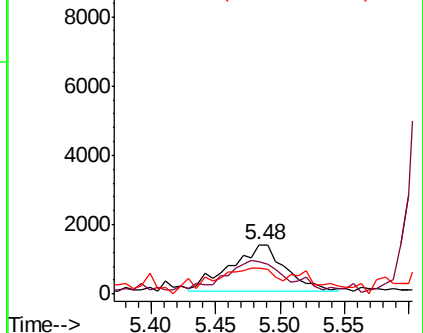
61 46.3 36.1 54.1

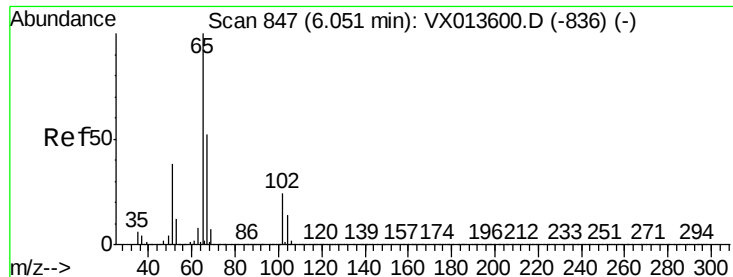


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.919 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

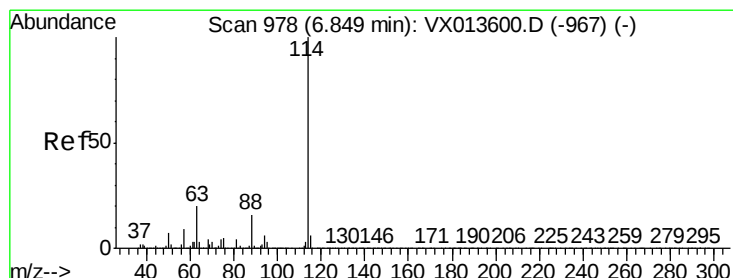
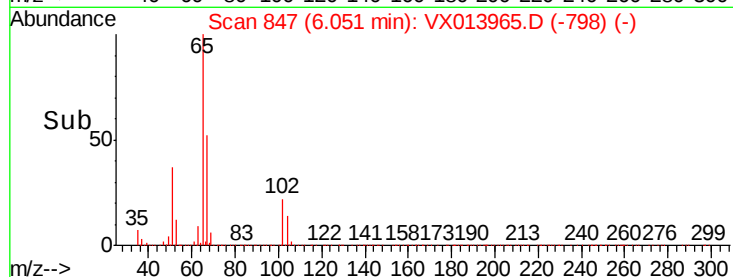
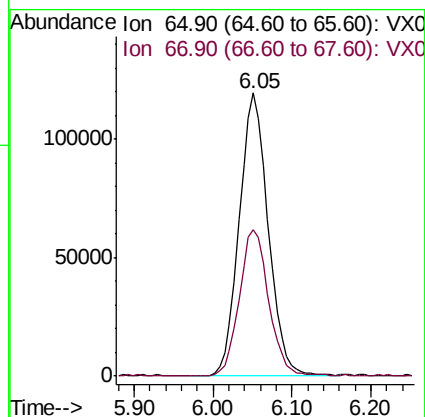
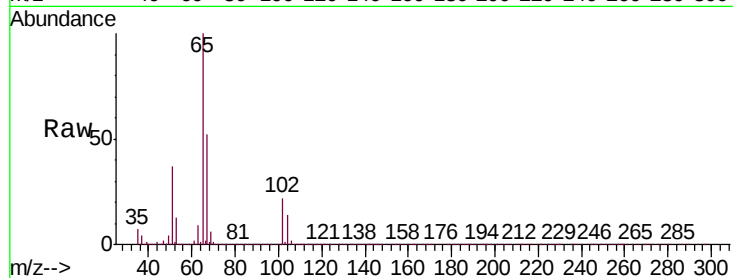
SA-PZ191I-20191208

Tgt Ion: 65 Resp: 303760

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

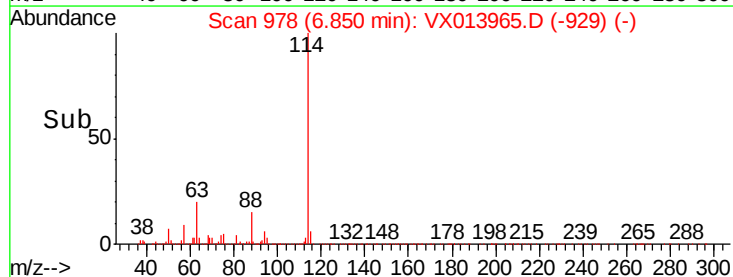
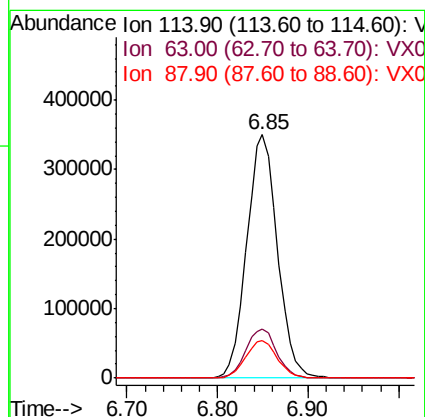
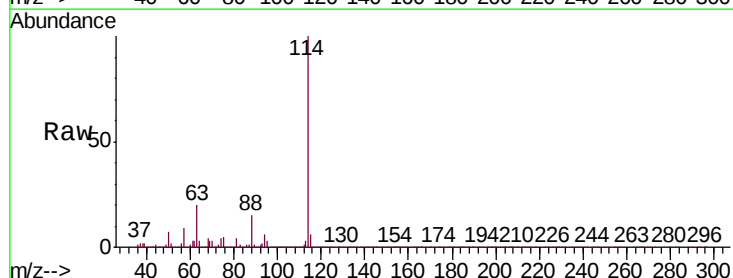
Tgt Ion: 114 Resp: 818632

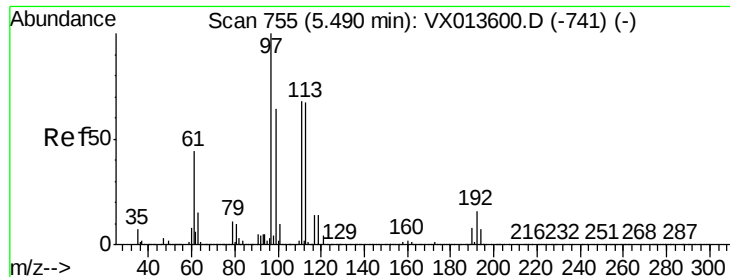
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.6

88 15.1 0.0 31.4

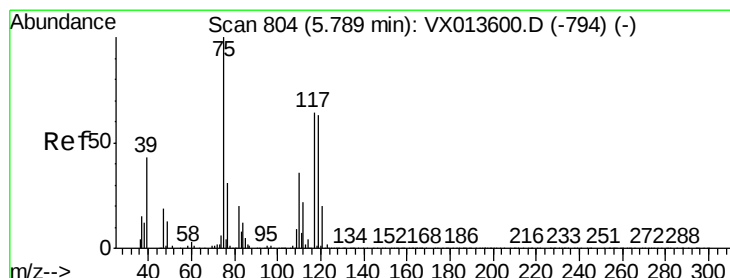
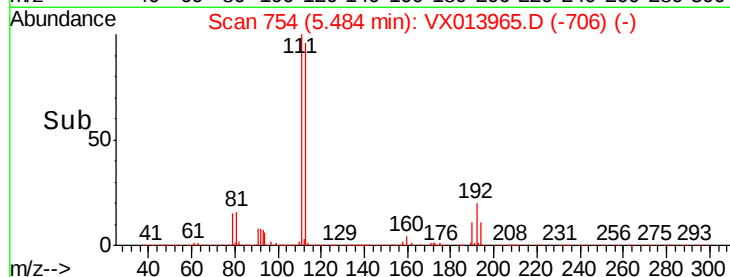
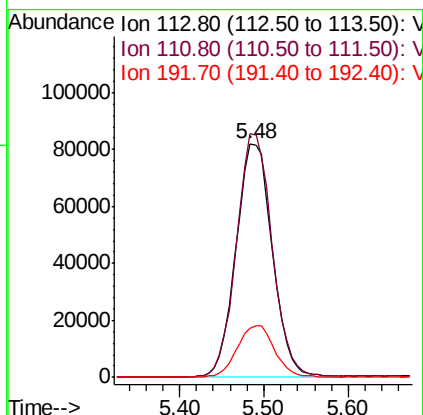
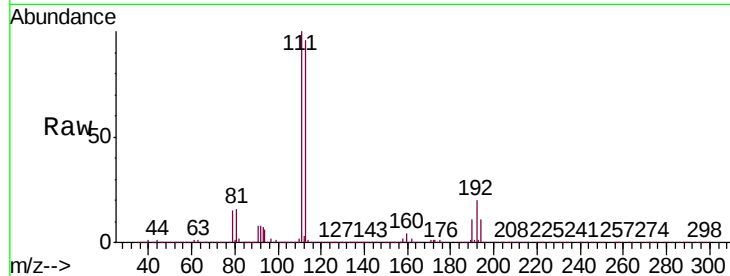




#35
Dibromofluoromethane
Concen: 47.386 ug/l
RT: 5.48 min Scan# 754
Delta R.T. -0.01 min
Lab File: VX013965.D
Acq: 12 Dec 2019 00:54

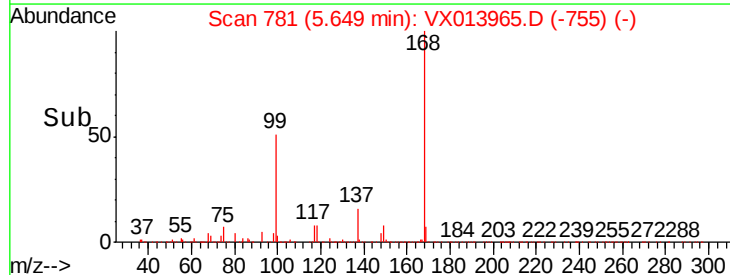
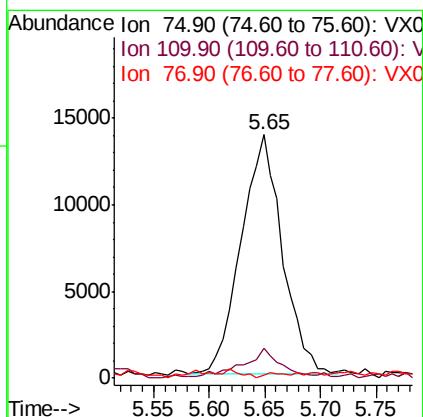
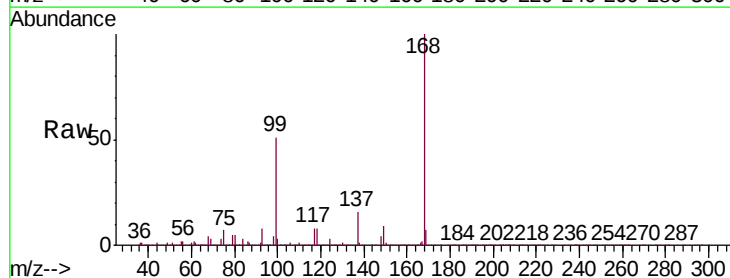
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ191I-20191208

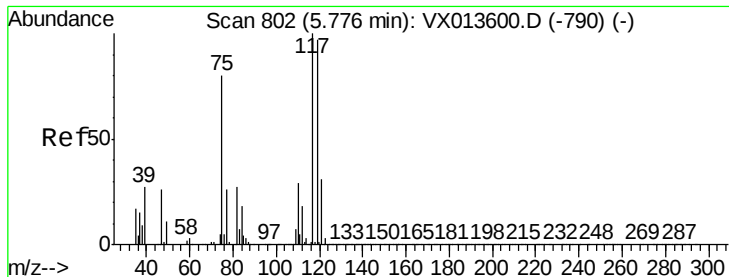
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.6	125.4
192	22.8	19.2	28.8



#36
1,1-Dichloropropene
Concen: 4.771 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013965.D
Acq: 12 Dec 2019 00:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.1	54.1#
77	1.1	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.687 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

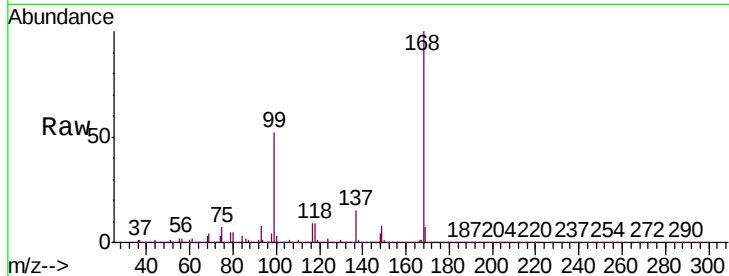
Tgt Ion:117 Resp: 45820

Ion Ratio Lower Upper

117 100

119 5.8 77.5 116.3#

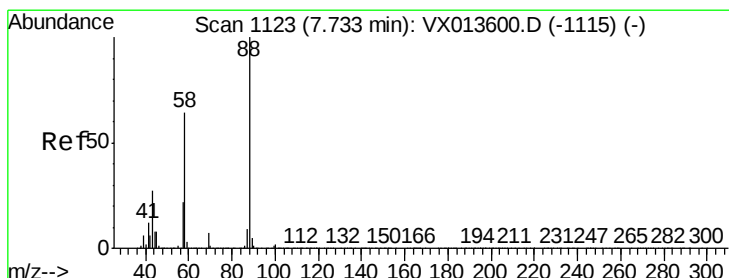
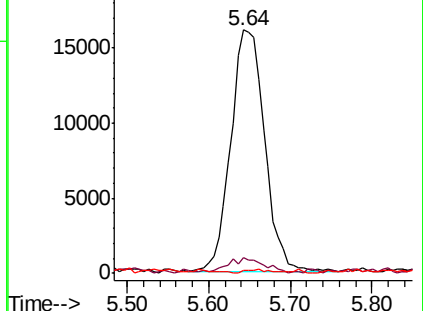
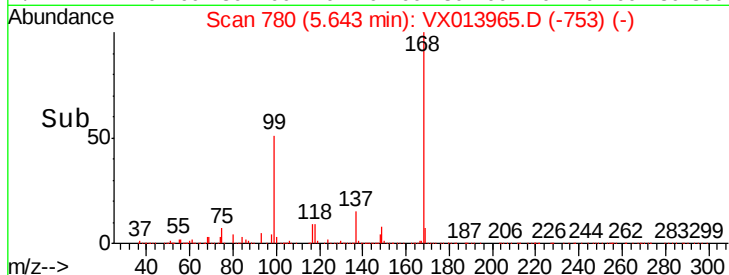
121 0.5 25.0 37.6#



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



#49

1,4-Dioxane

Concen: 1.427 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

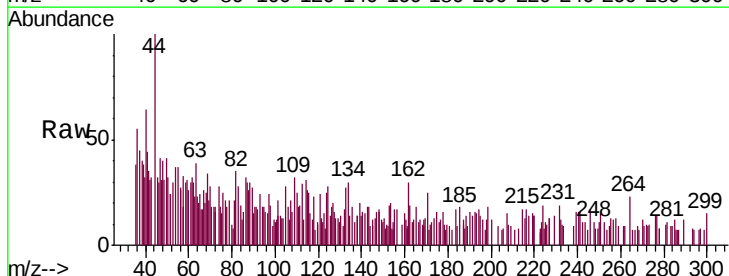
Tgt Ion: 88 Resp: 213

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

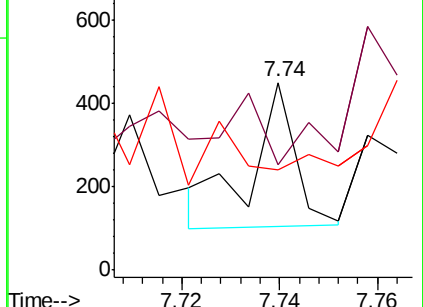
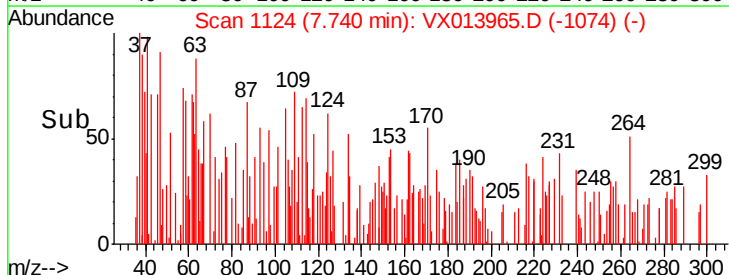
58 0.0 54.6 82.0#

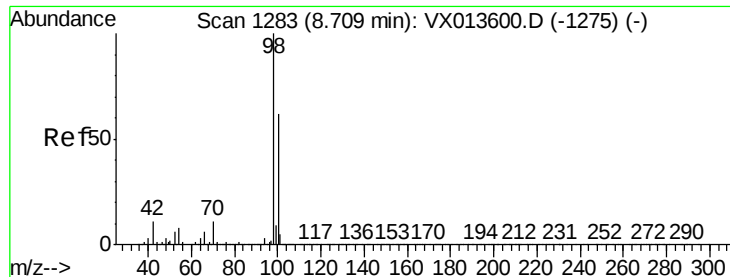


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.193 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

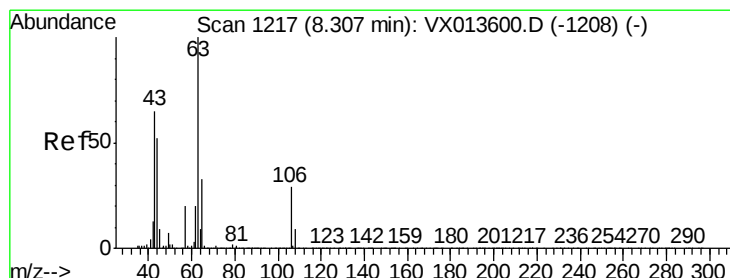
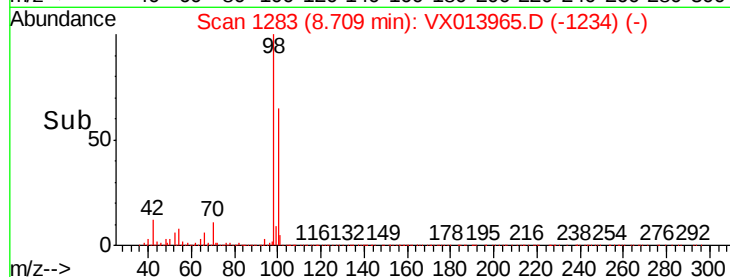
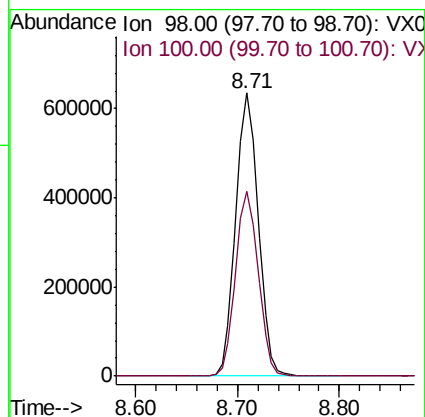
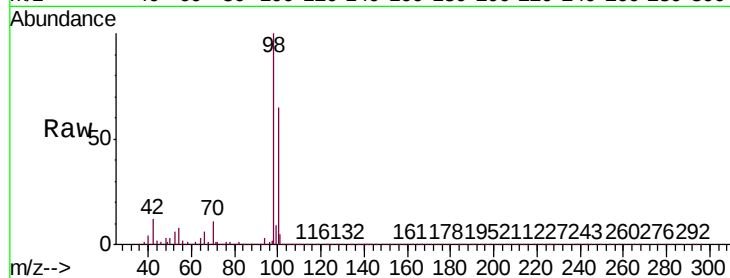
SA-PZ191I-20191208

Tgt Ion: 98 Resp: 969975

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



#58

2-Chloroethyl Vinyl ether

Concen: 0.250 ug/l

RT: 8.28 min Scan# 1213

Delta R.T. -0.02 min

Lab File: VX013965.D

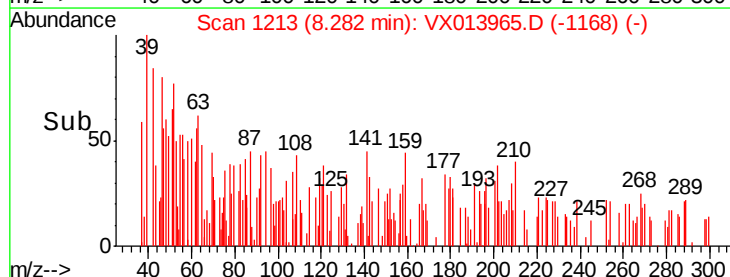
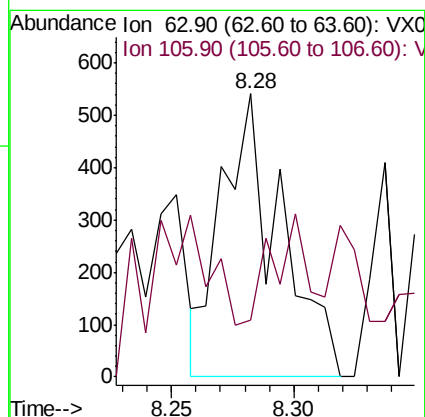
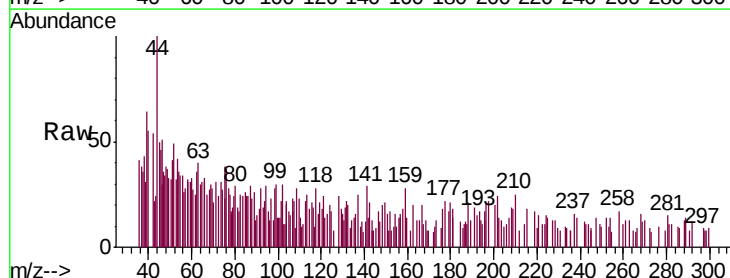
Acq: 12 Dec 2019 00:54

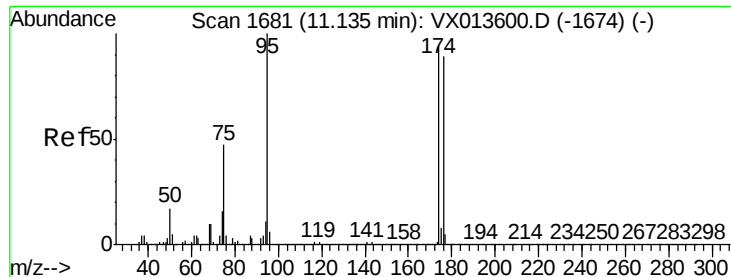
Tgt Ion: 63 Resp: 894

Ion Ratio Lower Upper

63 100

106 24.2 23.4 35.0





#62

4-Bromofluorobenzene

Concen: 46.205 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

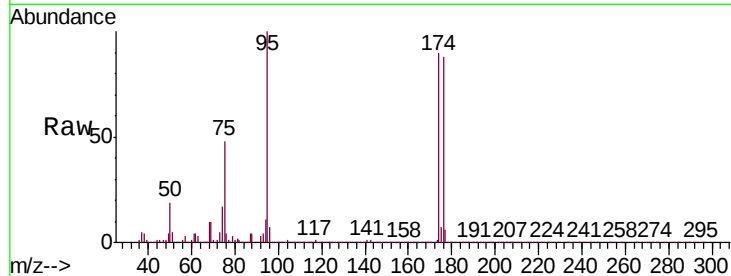
Tgt Ion: 95 Resp: 328530

Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.0

176 88.0 0.0 173.6

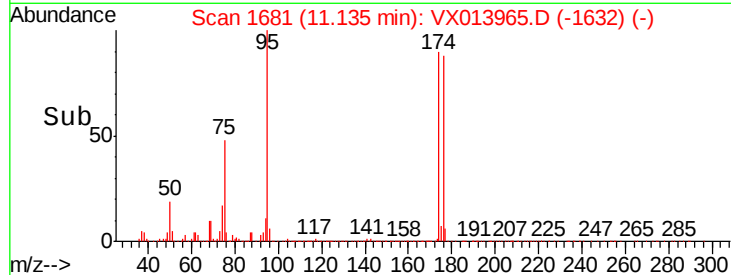


Abundance Ion 94.90 (94.60 to 95.60): VX013965.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013965.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013965.D (-1674) (-)

Time-->

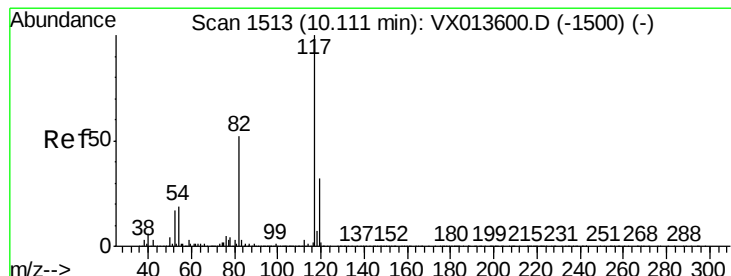


Abundance Ion 94.90 (94.60 to 95.60): VX013965.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013965.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013965.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

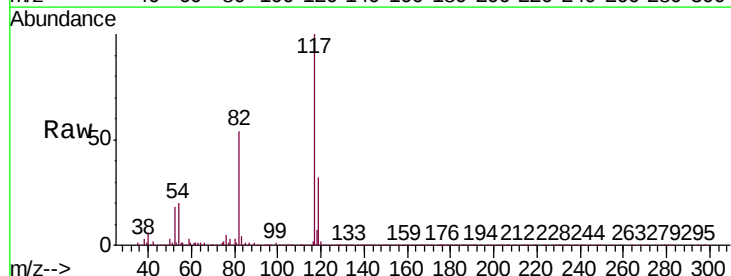
Tgt Ion: 117 Resp: 732208

Ion Ratio Lower Upper

117 100

82 53.8 41.8 62.8

119 32.0 25.8 38.8

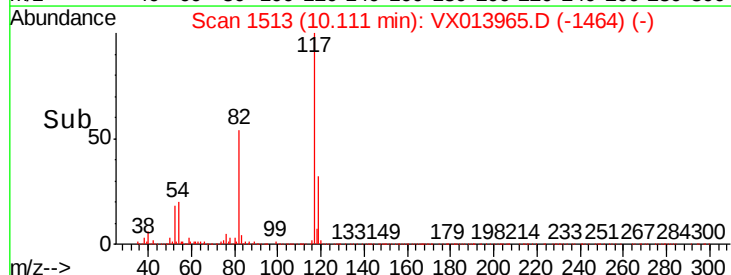


Abundance Ion 116.90 (116.60 to 117.60): VX013965.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013965.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013965.D (-1464) (-)

Time-->

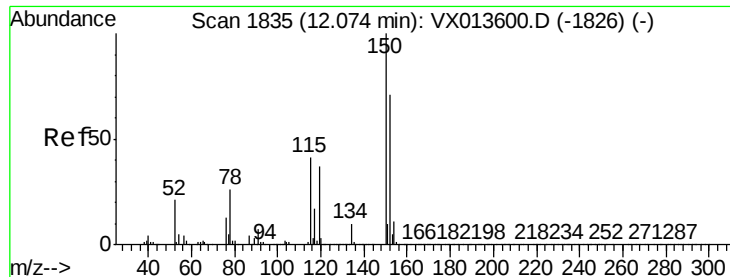


Abundance Ion 116.90 (116.60 to 117.60): VX013965.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013965.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013965.D (-1464) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

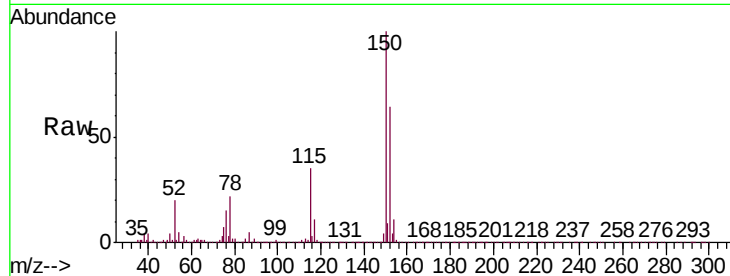
Tgt Ion: 152 Resp: 329298

Ion Ratio Lower Upper

152 100

115 55.4 38.4 115.1

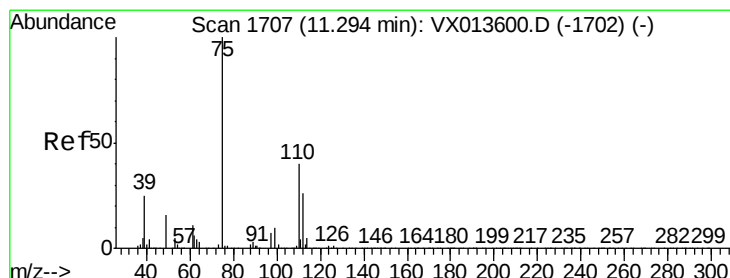
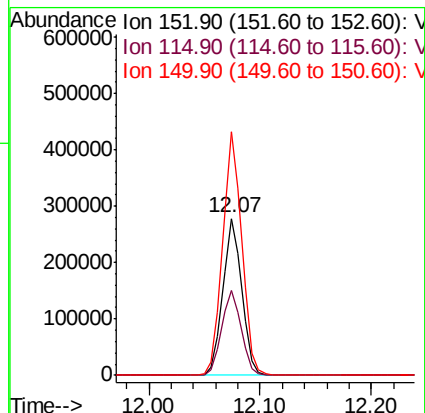
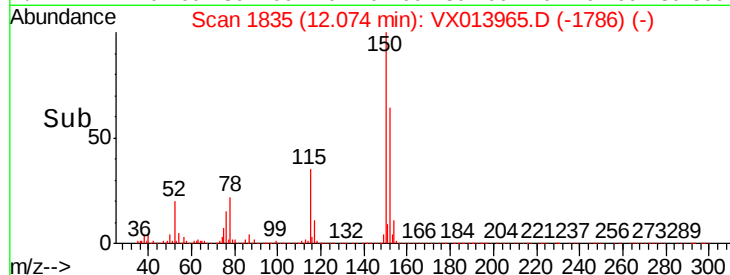
150 155.9 0.0 346.8



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: 21.902 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013965.D

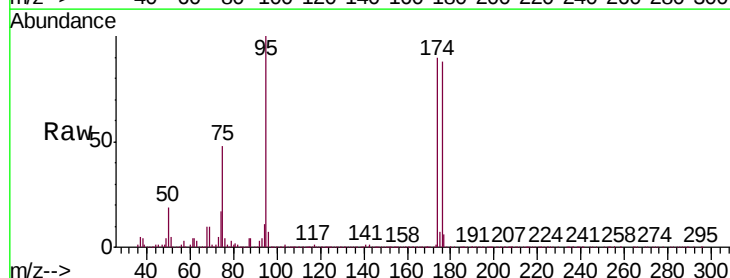
Acq: 12 Dec 2019 00:54

Tgt Ion: 75 Resp: 162216

Ion Ratio Lower Upper

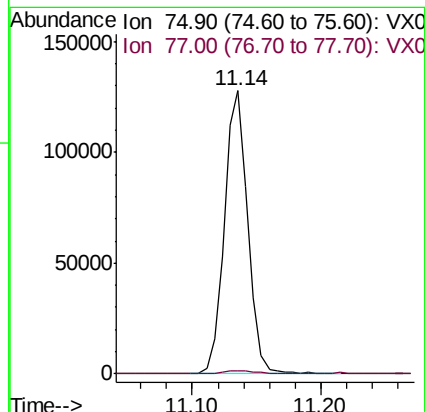
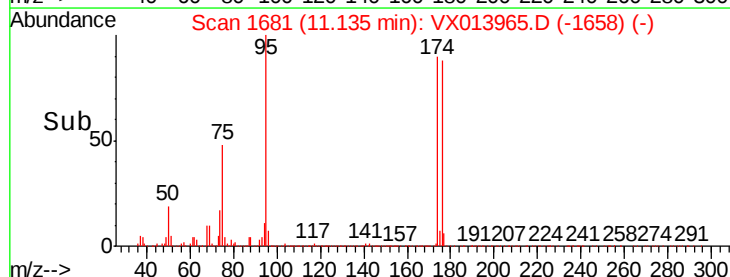
75 100

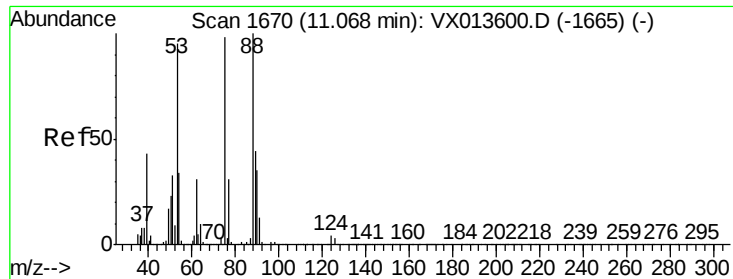
77 1.7 19.1 57.5#



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: 59.920 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013965.D

Acq: 12 Dec 2019 00:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

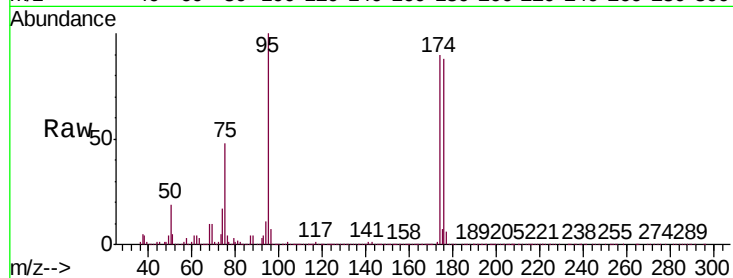
Tgt Ion: 75 Resp: 162216

Ion Ratio Lower Upper

75 100

53 0.3 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

