

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100419\
 Data File : VX012816.D
 Acq On : 04 Oct 2019 16:58
 Operator : JC/SP
 Sample : K5189-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ181I-20191001

Quant Time: Oct 05 04:23:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	177640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	300172	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	94993	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	119125	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
35) Dibromofluoromethane	5.49	113	91733	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
50) Toluene-d8	8.71	98	356225	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	11.14	95	118186	43.66	ug/l	0.00
Spiked Amount			Recovery	=	87.32%	

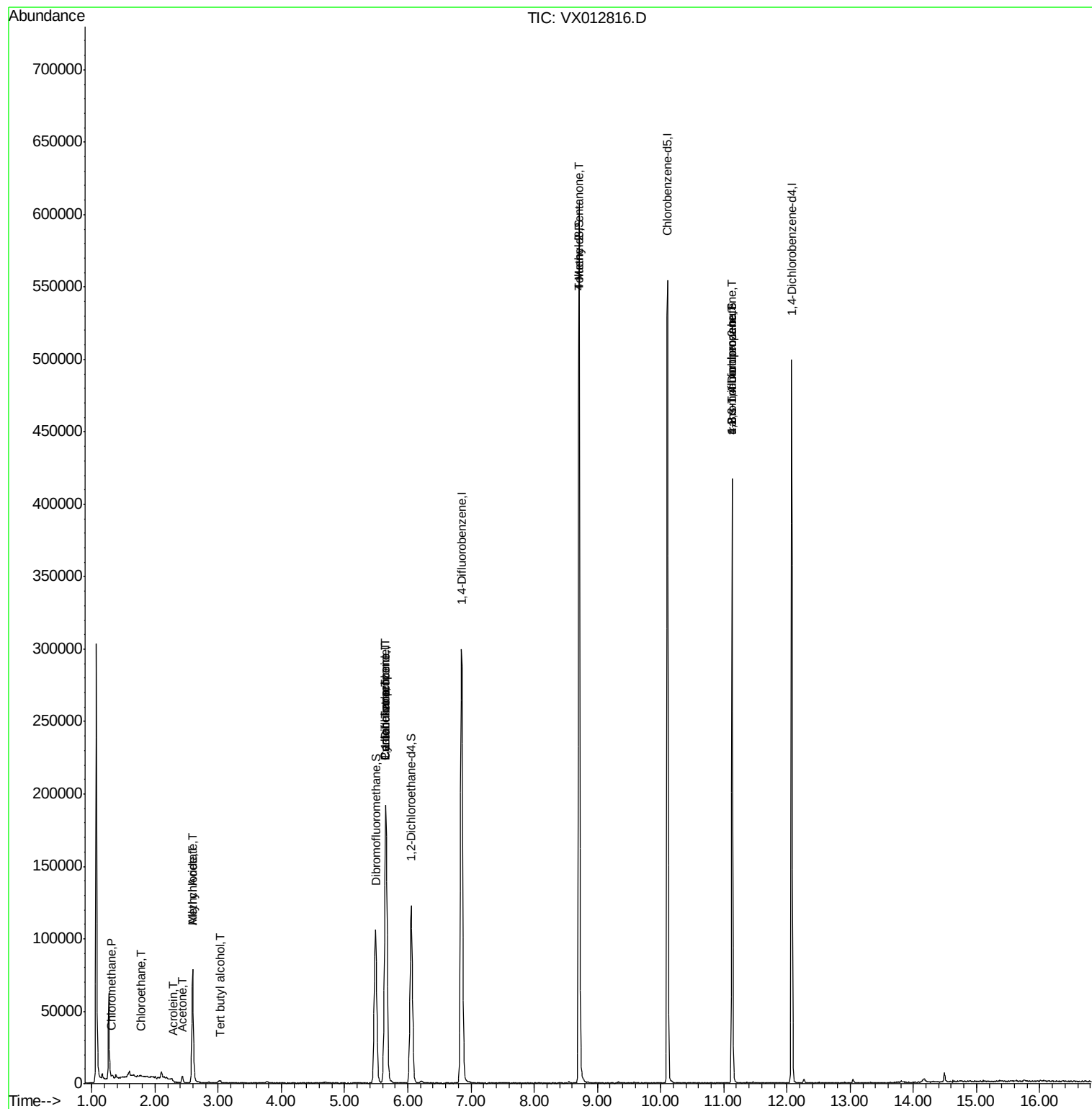
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1024	0.446	ug/l	96
6) Chloroethane	1.77	64	736	0.479	ug/l #	48
11) Tert butyl alcohol	3.03	59	1899	2.939	ug/l #	84
13) Acrolein	2.29	56	106	10.515	ug/l #	15
14) Allyl chloride	2.59	41	6695	1.767	ug/l #	57
16) Acetone	2.44	43	5194	3.791	ug/l #	80
18) Methyl Acetate	2.59	43	19057	5.907	ug/l #	54
31) Cyclohexane	5.65	56	3822	1.061	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14618	5.052	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19290	6.563	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1680	0.481	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	58353	23.222	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	58353	66.550	ug/l #	8

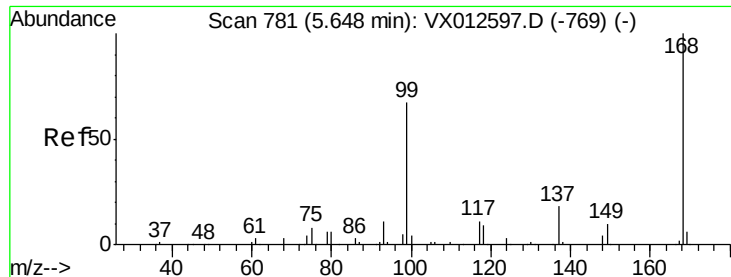
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

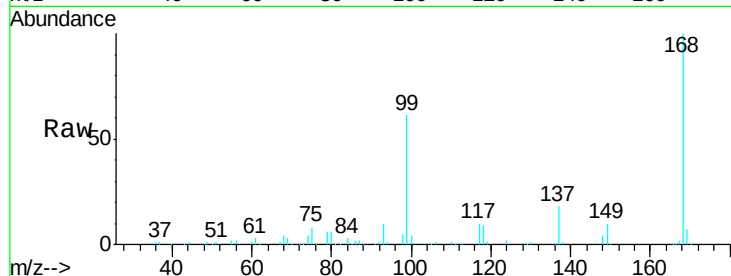
SA-PZ181I-20191001

Tgt Ion:168 Resp: 177640

Ion Ratio Lower Upper

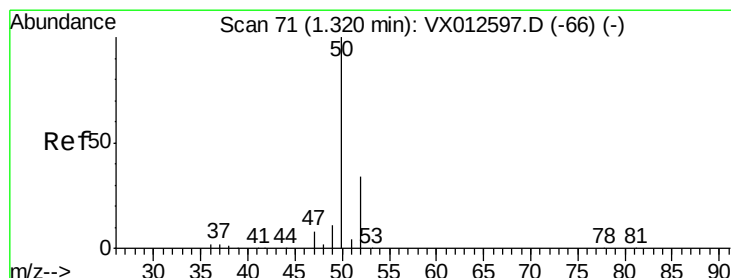
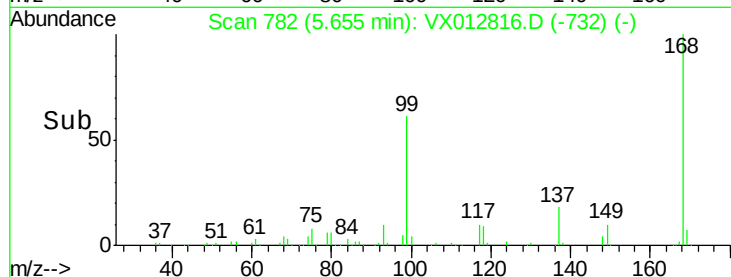
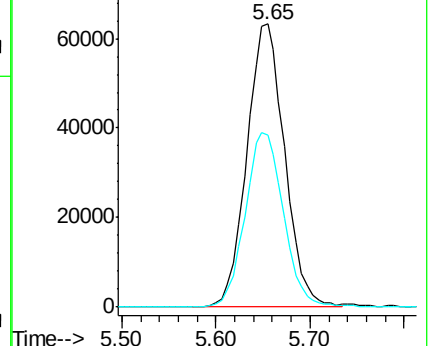
168 100

99 60.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.446 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012816.D

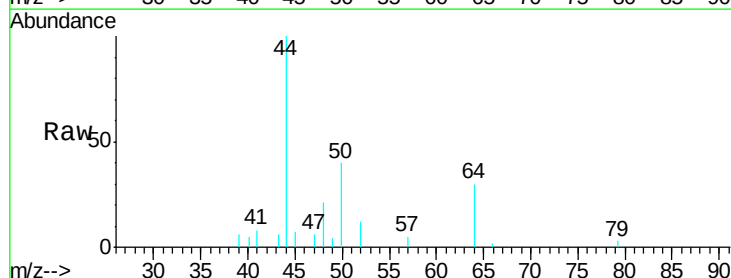
Acq: 04 Oct 2019 16:58

Tgt Ion: 50 Resp: 1024

Ion Ratio Lower Upper

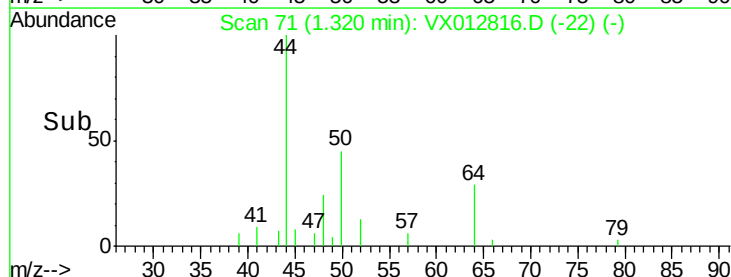
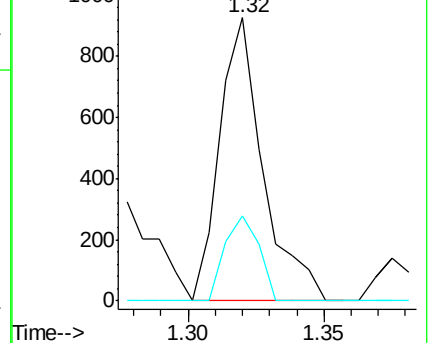
50 100

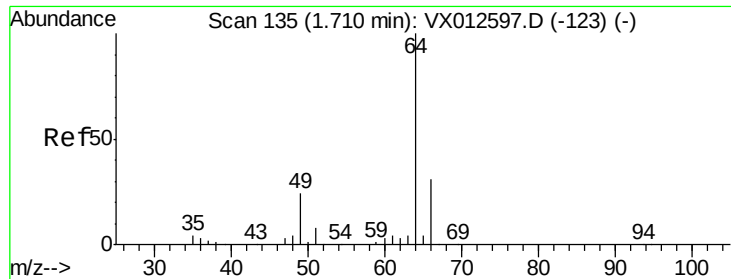
52 29.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.479 ug/l

RT: 1.77 min Scan# 145

Delta R.T. 0.06 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

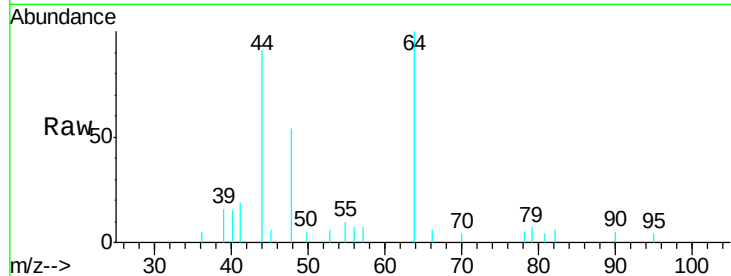
SA-PZ181I-20191001

Tgt Ion: 64 Resp: 736

Ion Ratio Lower Upper

64 100

66 2.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.77

1500

1000

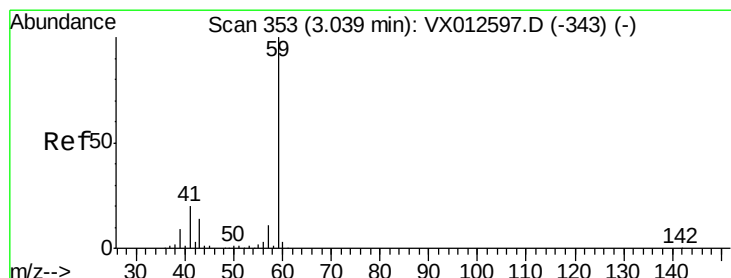
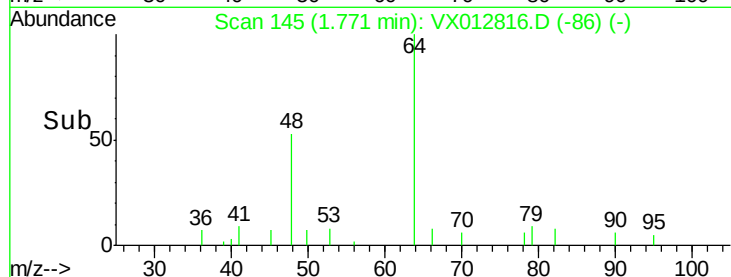
500

0

Time-->

1.75

1.80



#11

Tert butyl alcohol

Concen: 2.939 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX012816.D

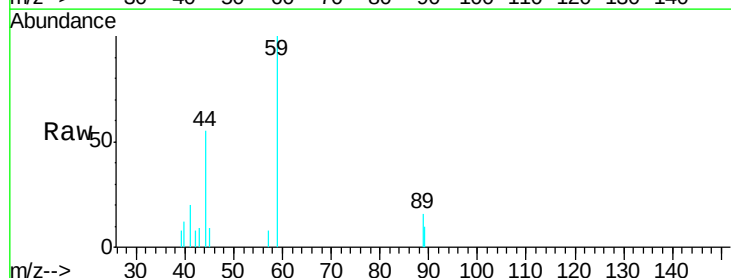
Acq: 04 Oct 2019 16:58

Tgt Ion: 59 Resp: 1899

Ion Ratio Lower Upper

59 100

57 4.3 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

800

600

400

200

0

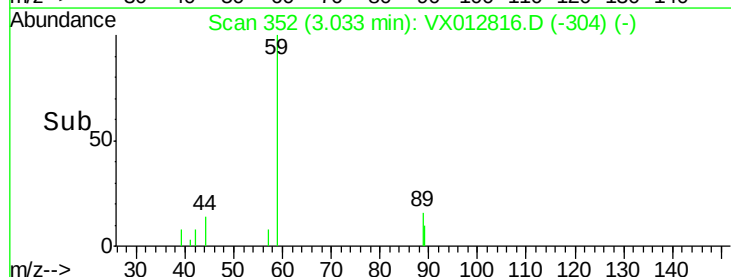
Time-->

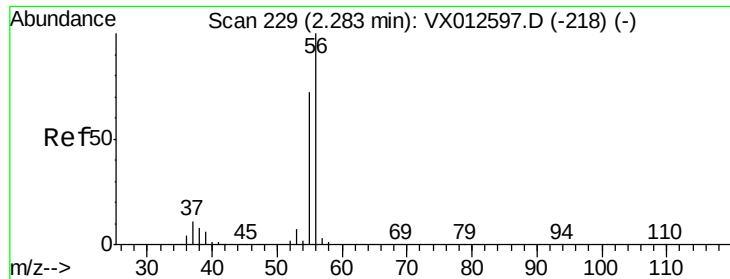
2.95

3.00

3.05

3.10





#13

Acrolein

Concen: 10.515 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

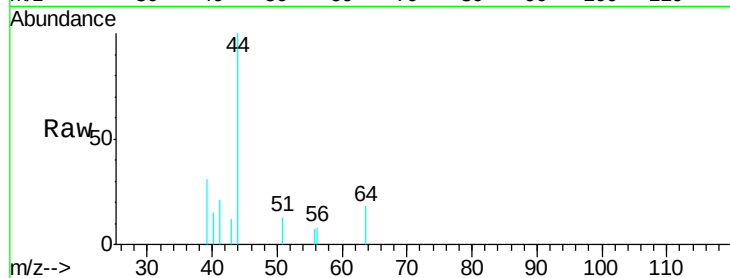
SA-PZ181I-20191001

Tgt Ion: 56 Resp: 106

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

250

200

150

100

50

0

2.27

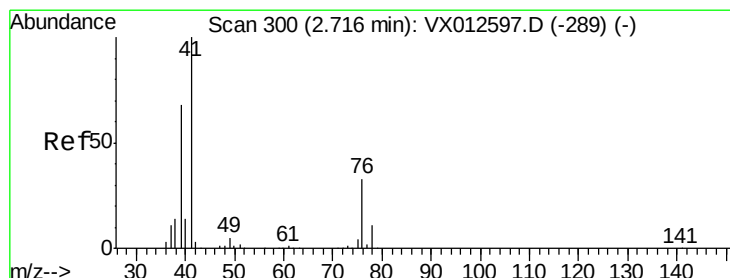
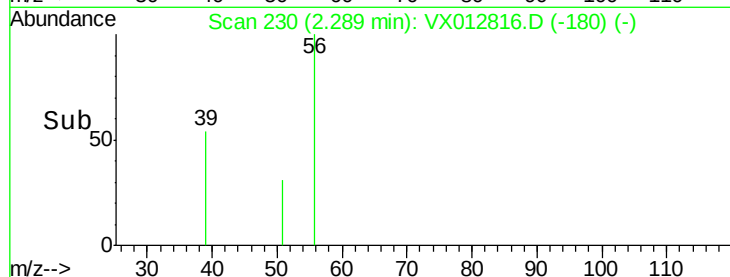
2.28

2.29

2.30

2.31

Time-->



#14

Allyl chloride

Concen: 1.767 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

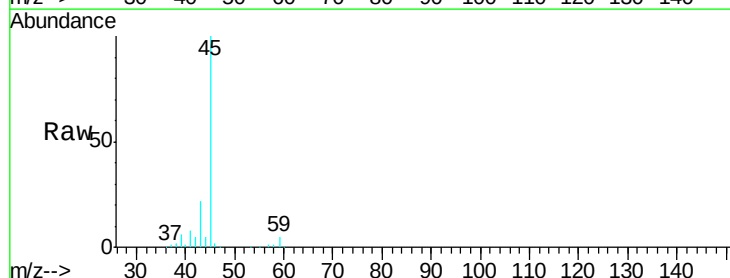
Tgt Ion: 41 Resp: 6695

Ion Ratio Lower Upper

41 100

39 94.5 51.3 76.9#

76 0.0 22.6 33.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

5000

4000

3000

2000

1000

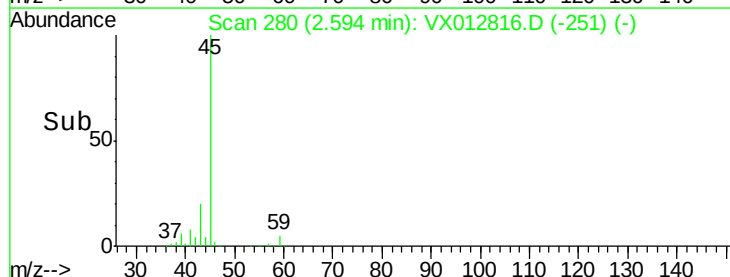
0

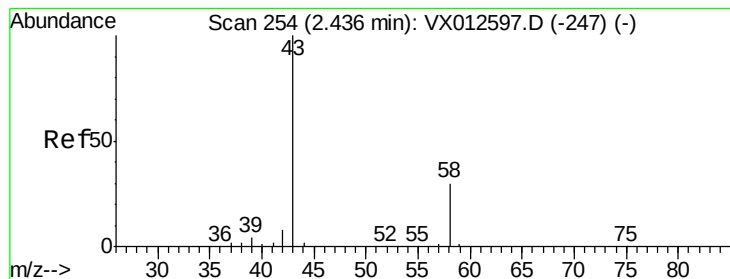
2.55

2.60

2.65

Time-->





#16

Acetone

Concen: 3.791 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

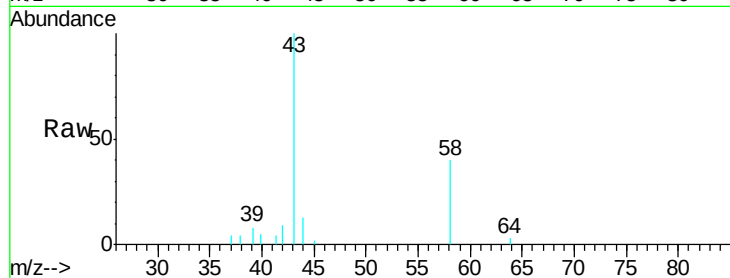
SA-PZ181I-20191001

Tgt Ion: 43 Resp: 5194

Ion Ratio Lower Upper

43 100

58 39.9 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2500

2000

1500

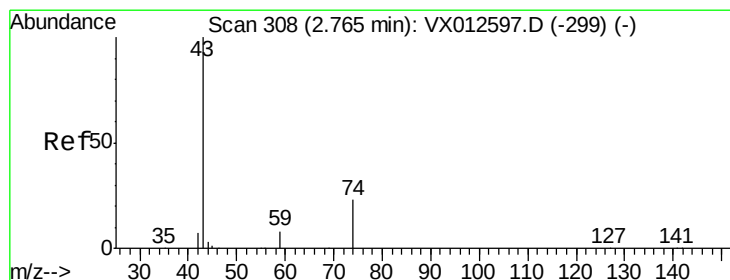
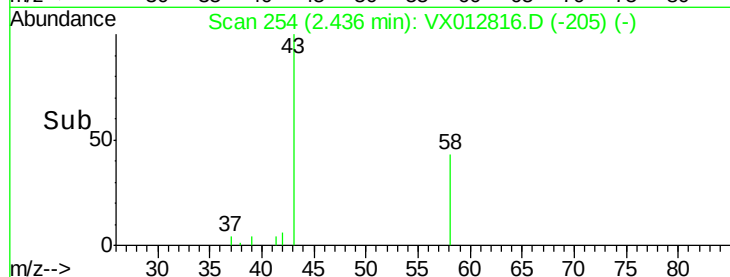
1000

500

0

Time-->

2.40 2.45 2.50



#18

Methyl Acetate

Concen: 5.907 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012816.D

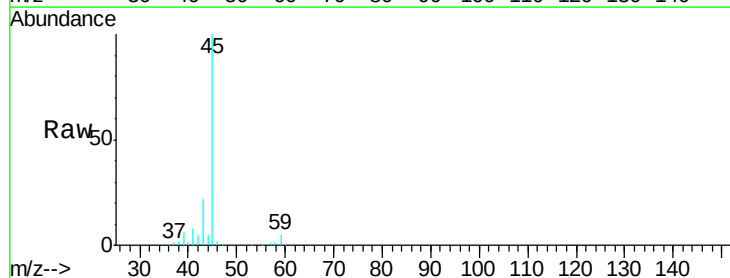
Acq: 04 Oct 2019 16:58

Tgt Ion: 43 Resp: 19057

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.59

12000

10000

8000

6000

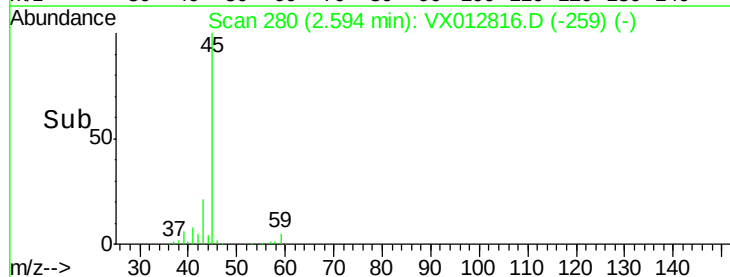
4000

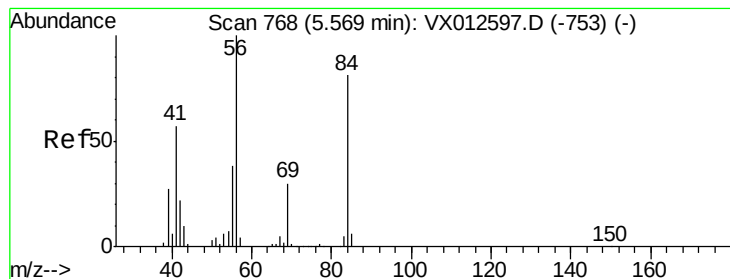
2000

0

Time-->

2.50 2.55 2.60 2.65





#31

Cyclohexane

Concen: 1.061 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

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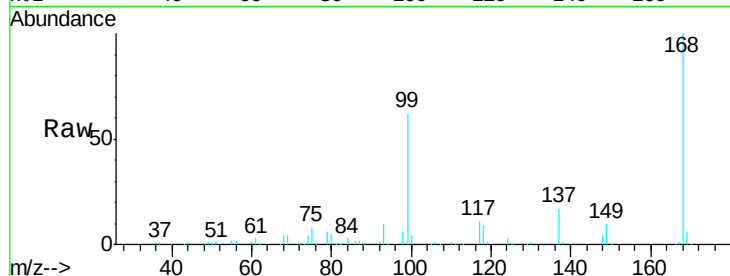
Tgt Ion: 56 Resp: 3822

Ion Ratio Lower Upper

56 100

69 171.6 25.0 37.6#

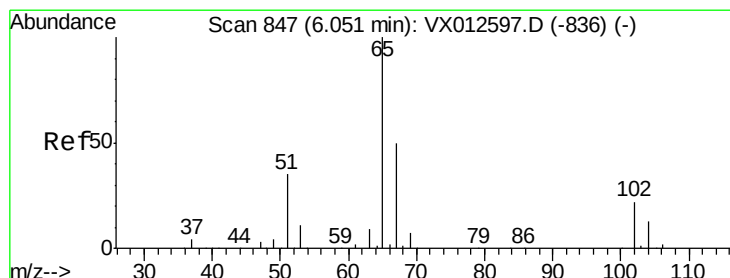
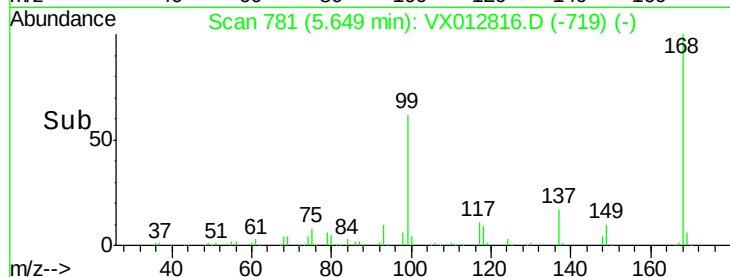
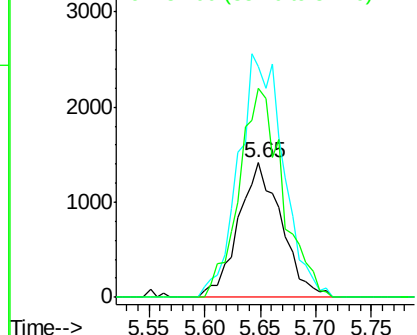
84 154.8 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.051 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012816.D

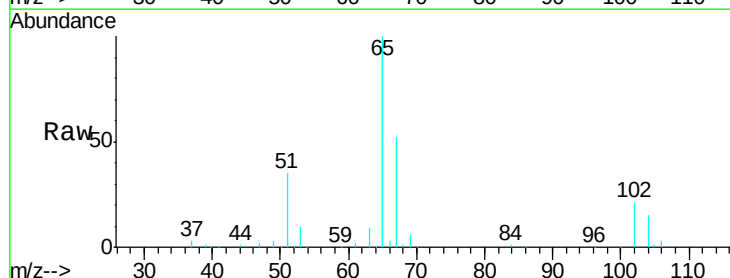
Acq: 04 Oct 2019 16:58

Tgt Ion: 65 Resp: 119125

Ion Ratio Lower Upper

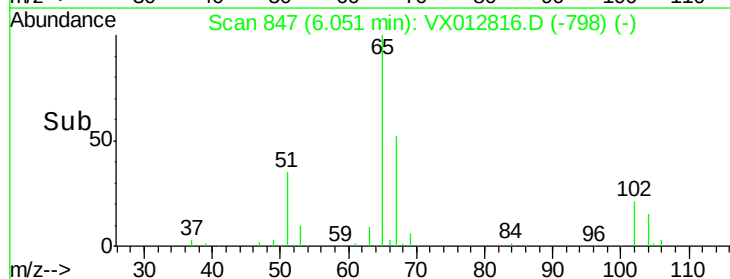
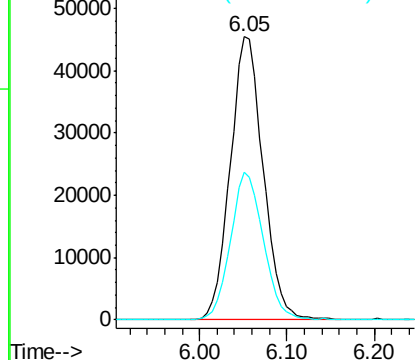
65 100

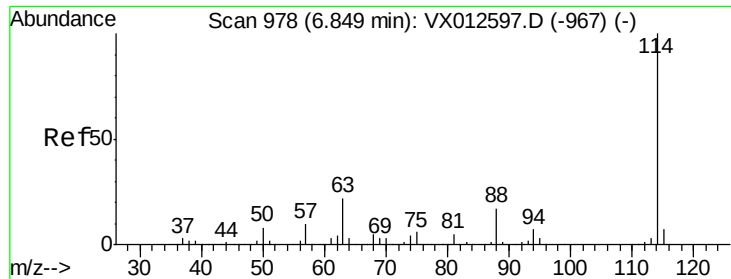
67 51.8 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

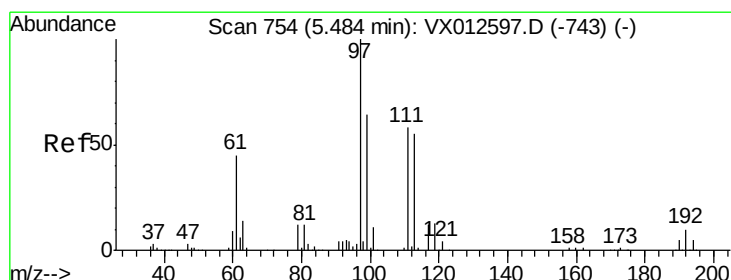
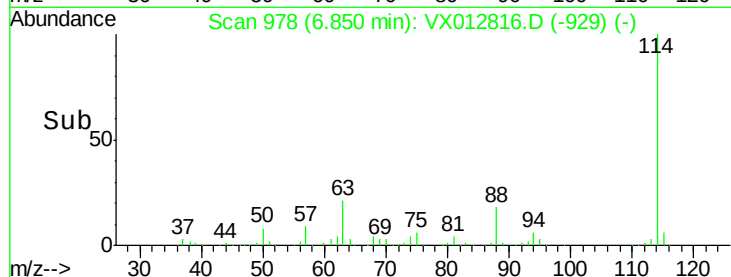
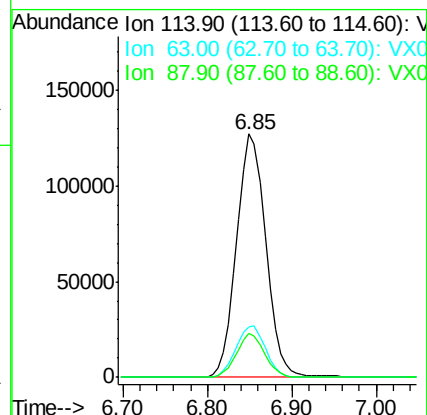
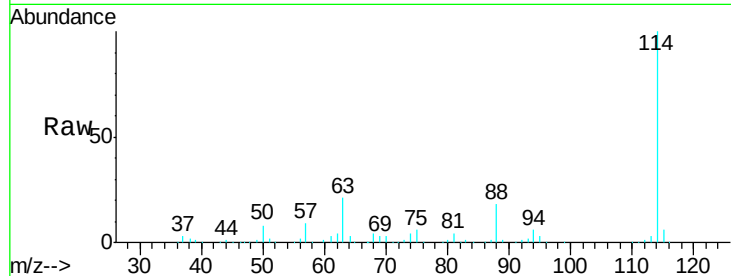




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX012816.D
Acq: 04 Oct 2019 16:58

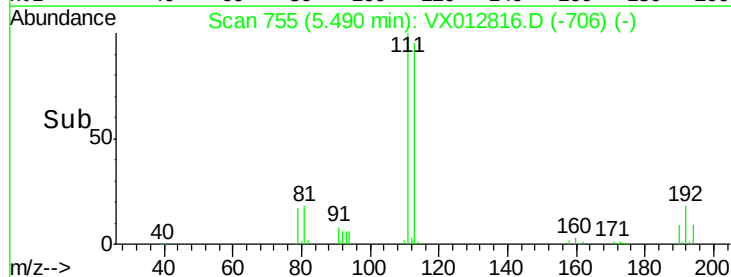
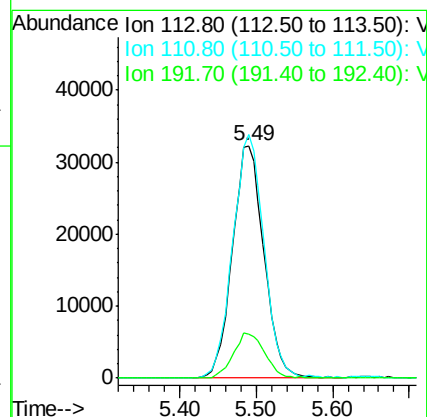
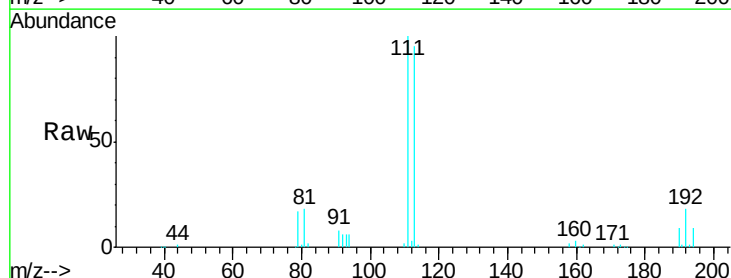
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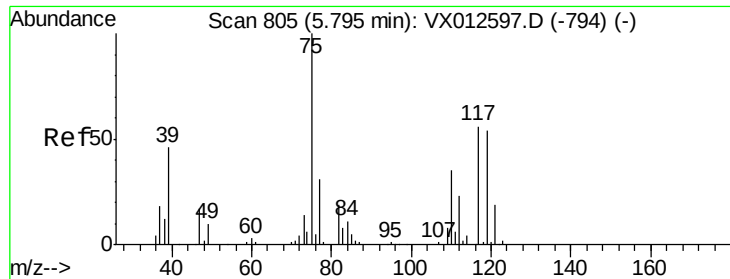
Tgt Ion:114 Resp: 300172
Ion Ratio Lower Upper
114 100
63 20.7 0.0 43.2
88 17.9 0.0 33.2



#35
Dibromofluoromethane
Concen: 51.315 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX012816.D
Acq: 04 Oct 2019 16:58

Tgt Ion:113 Resp: 91733
Ion Ratio Lower Upper
113 100
111 103.8 83.4 125.2
192 19.5 14.4 21.6

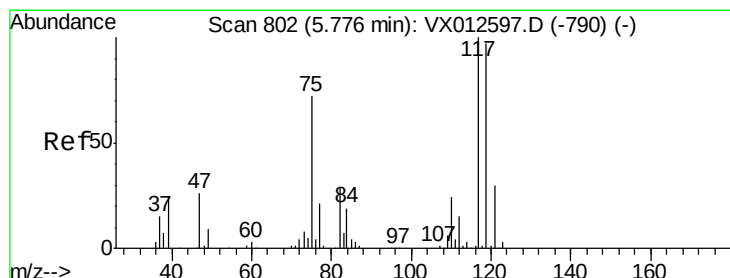
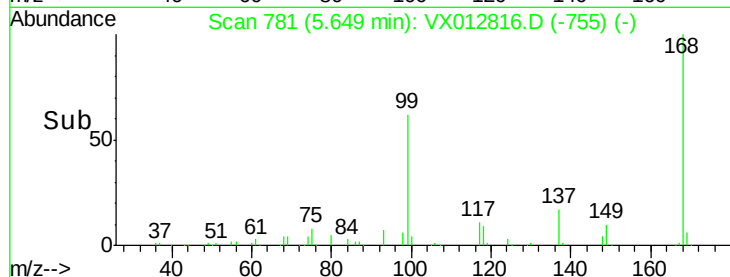
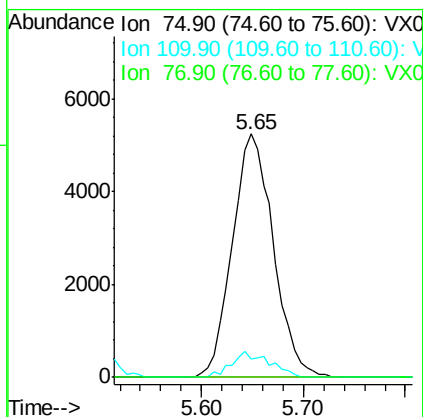
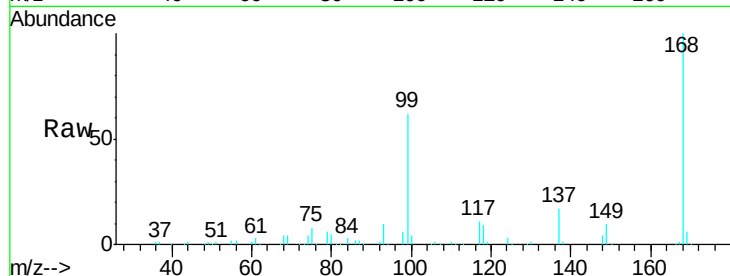




#36
 1,1-Dichloropropene
 Concen: 5.052 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012816.D
 Acq: 04 Oct 2019 16:58

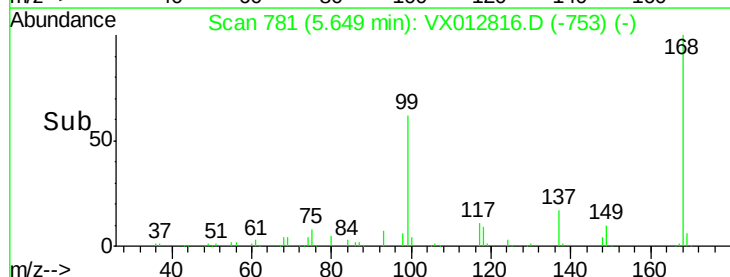
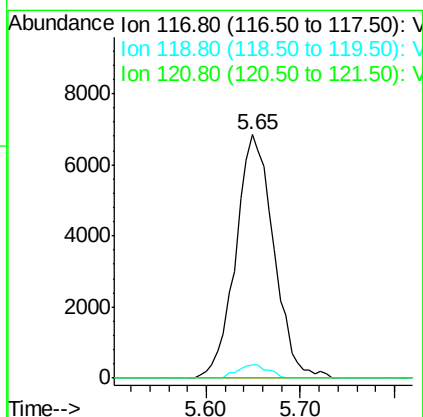
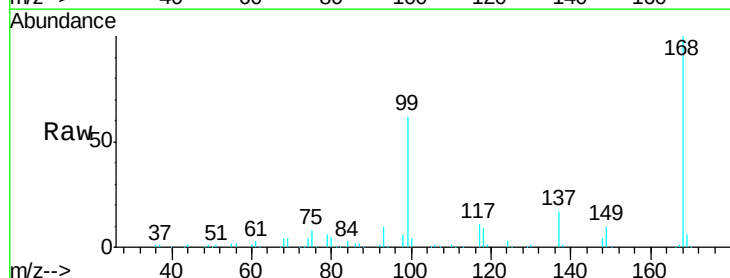
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ181I-20191001

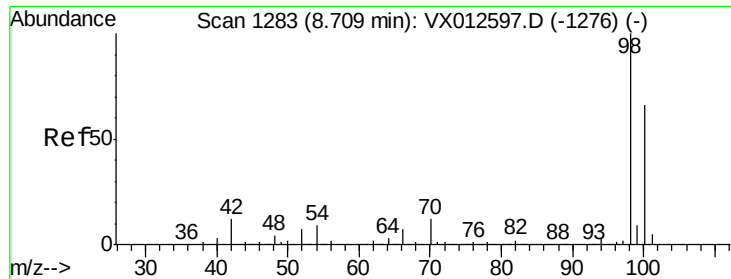
Tgt Ion: 75 Resp: 14618
 Ion Ratio Lower Upper
 75 100
 110 9.7 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.563 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012816.D
 Acq: 04 Oct 2019 16:58

Tgt Ion: 117 Resp: 19290
 Ion Ratio Lower Upper
 117 100
 119 5.5 75.7 113.5#
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 51.744 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

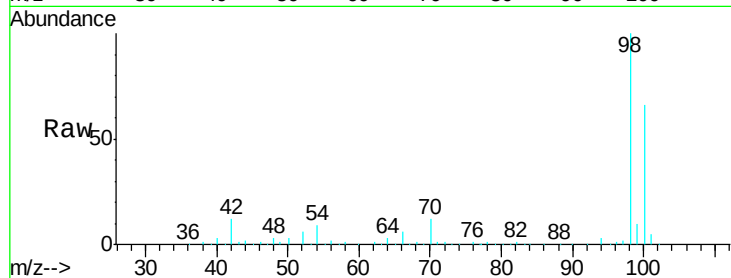
SA-PZ181I-20191001

Tgt Ion: 98 Resp: 356225

Ion Ratio Lower Upper

98 100

100 67.2 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

150000

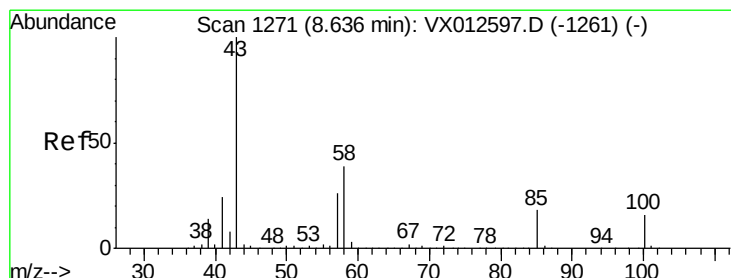
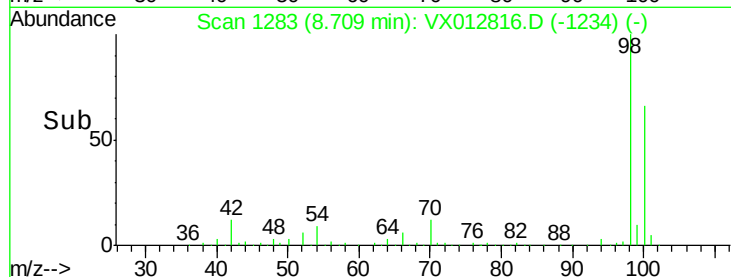
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.481 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012816.D

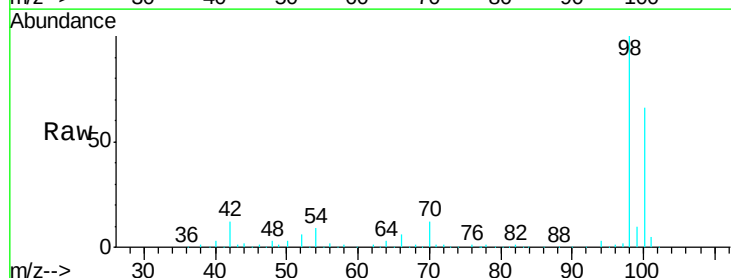
Acq: 04 Oct 2019 16:58

Tgt Ion: 43 Resp: 1680

Ion Ratio Lower Upper

43 100

58 178.6 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

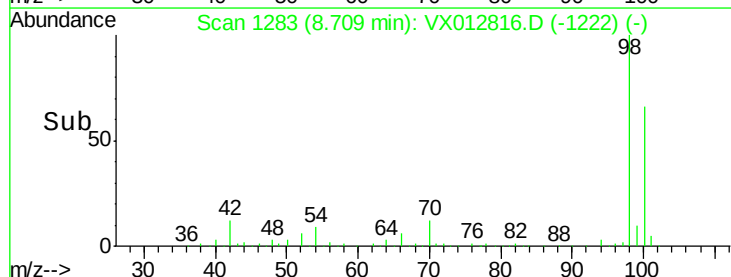
1000

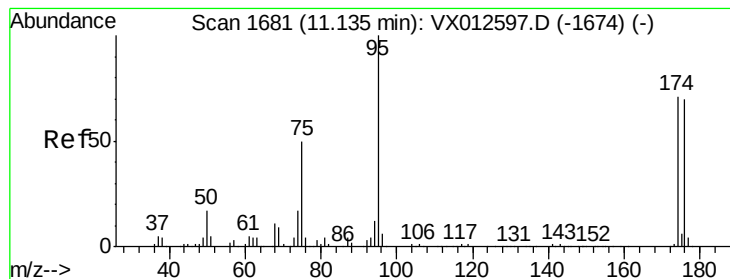
500

0

Time-->

8.65 8.70 8.75





#62

4-Bromofluorobenzene

Concen: 43.660 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ181I-20191001

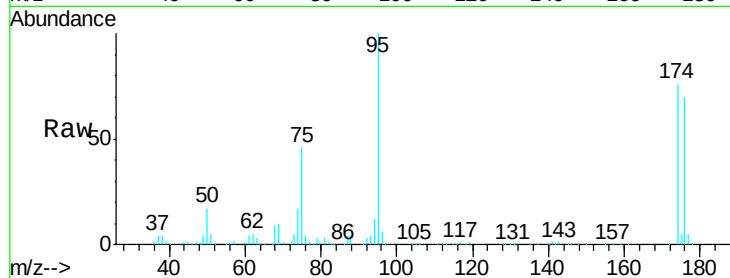
Tgt Ion: 95 Resp: 118186

Ion Ratio Lower Upper

95 100

174 71.9 0.0 140.0

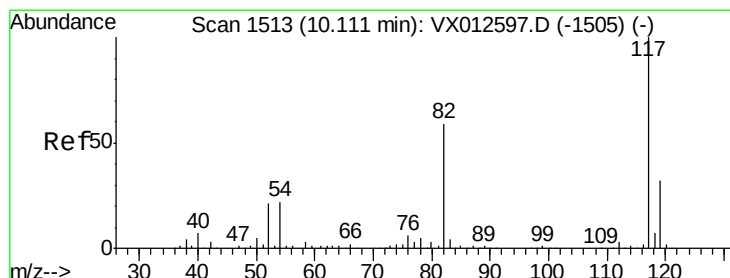
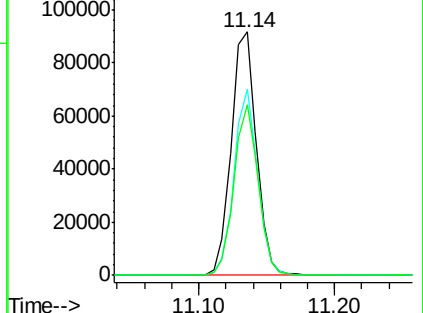
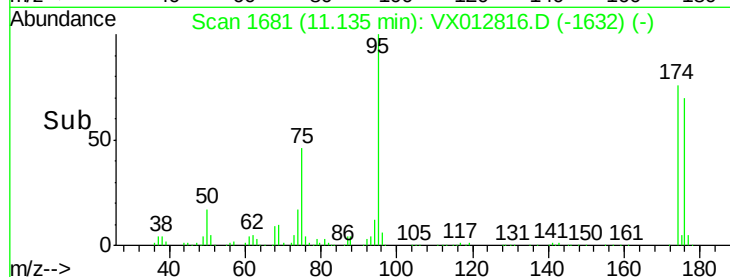
176 67.4 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012816.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012816.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012816.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

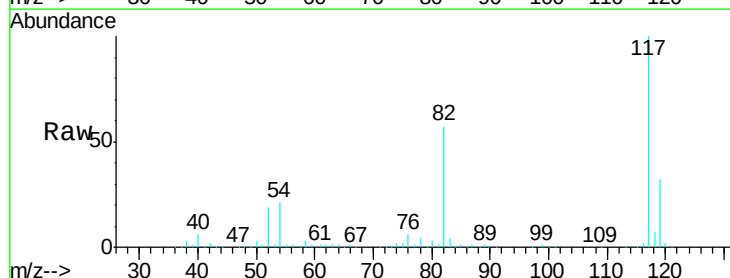
Tgt Ion: 117 Resp: 254075

Ion Ratio Lower Upper

117 100

82 57.5 45.9 68.9

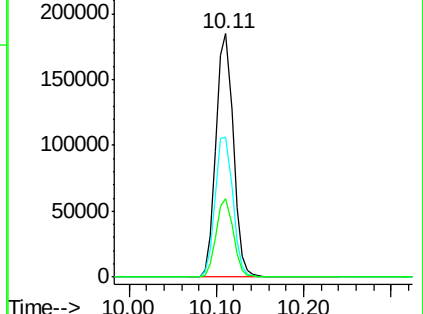
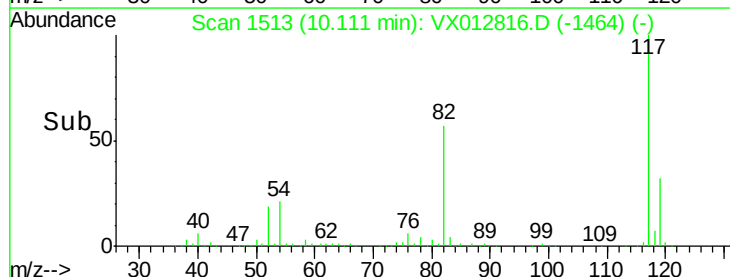
119 32.1 25.3 37.9

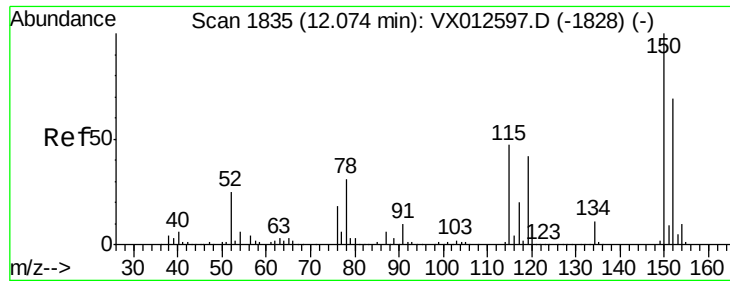


Abundance Ion 116.90 (116.60 to 117.60): VX012816.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012816.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012816.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ181I-20191001

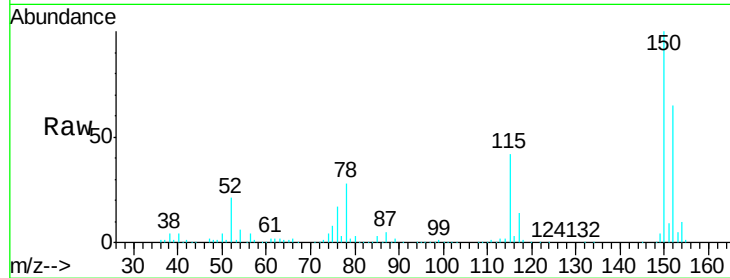
Tgt Ion:152 Resp: 94993

Ion Ratio Lower Upper

152 100

115 64.6 44.1 132.3

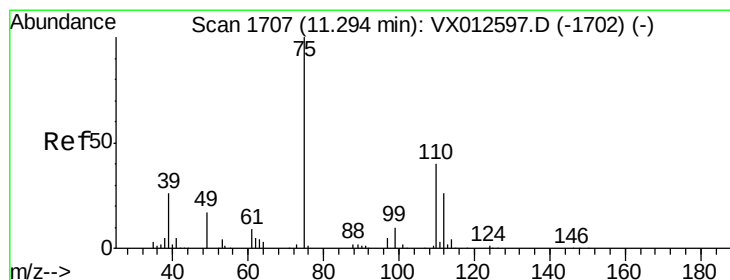
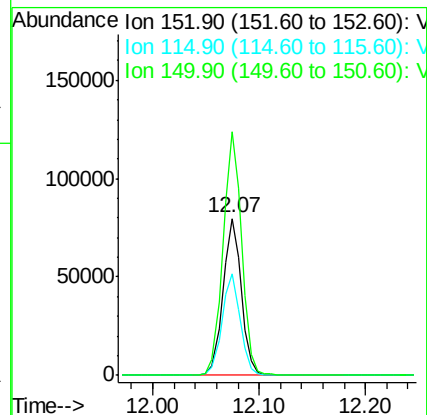
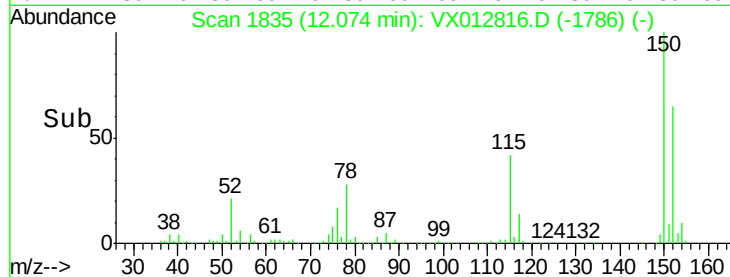
150 157.6 0.0 343.8



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: 23.222 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012816.D

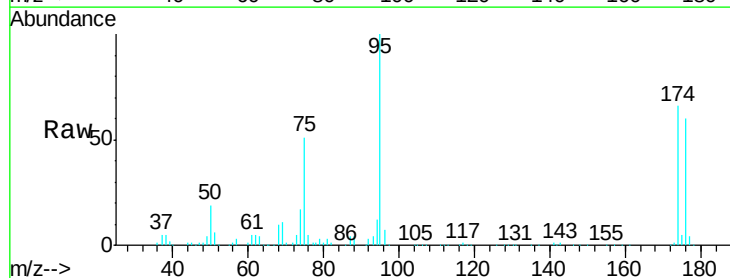
Acq: 04 Oct 2019 16:58

Tgt Ion: 75 Resp: 58353

Ion Ratio Lower Upper

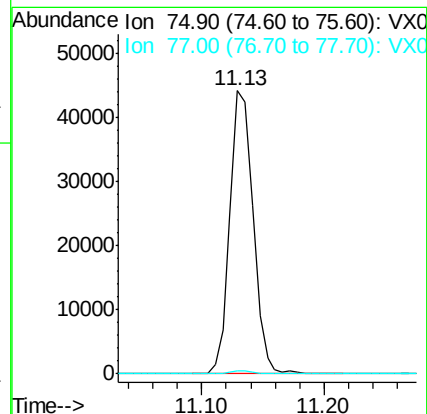
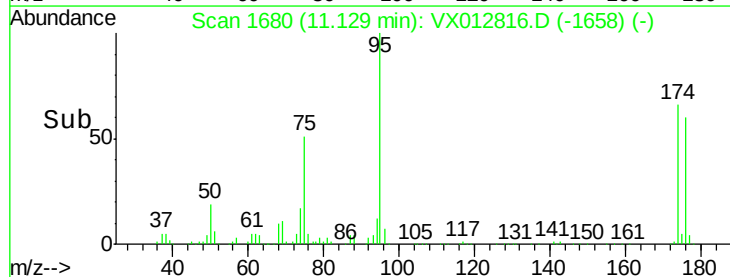
75 100

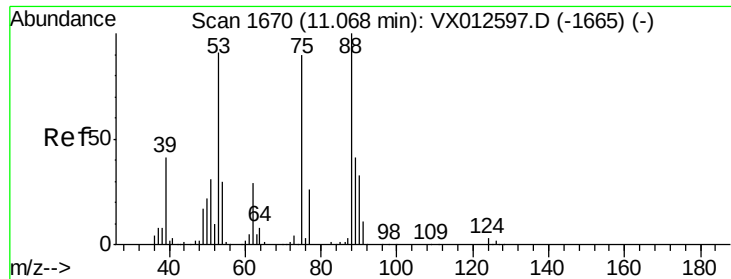
77 1.1 19.7 59.0#



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: 66.550 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012816.D

Acq: 04 Oct 2019 16:58

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ181I-20191001

Tgt Ion: 75 Resp: 58353

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

