

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012867.D
 Acq On : 08 Oct 2019 03:39
 Operator : JC/SP
 Sample : K5216-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0550

Quant Time: Oct 08 11:17:26 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	178644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	301083	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	249432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	91047	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	116811	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	
35) Dibromofluoromethane	5.49	113	89107	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	8.71	98	353099	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	11.14	95	115968	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	

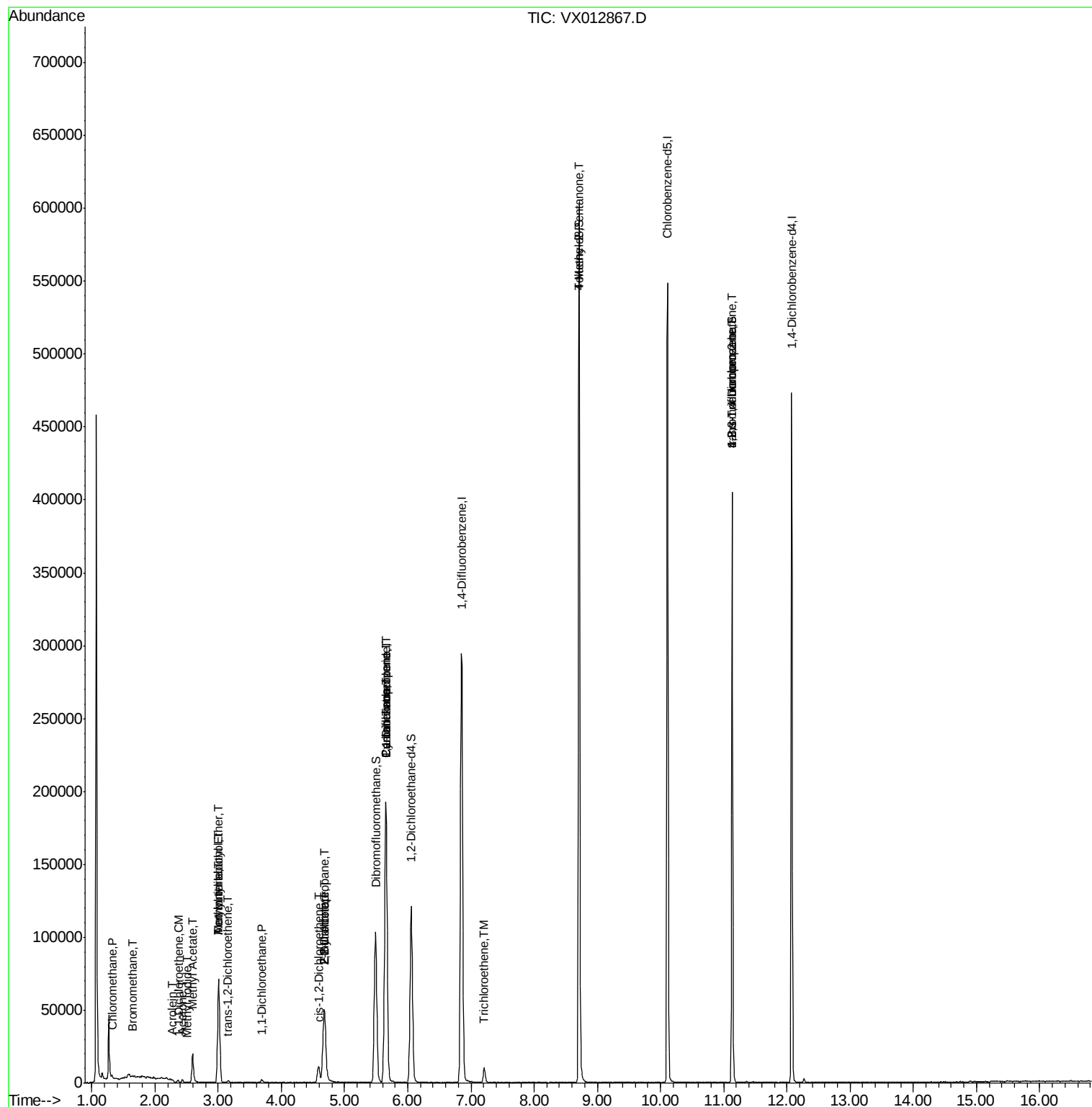
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	840	0.364	ug/l	93
5) Bromomethane	1.64	94	297	0.329	ug/l	83
10) Methyl Iodide	2.51	142	75	4.986	ug/l #	35
11) Tert butyl alcohol	3.01	59	42802	65.865	ug/l #	75
12) 1,1-Dichloroethene	2.37	96	441	0.230	ug/l	80
13) Acrolein	2.27	56	21	10.289	ug/l #	1
15) Acrylonitrile	3.01	53	791	0.600	ug/l #	21
16) Acetone	2.43	43	2206	1.601	ug/l	90
18) Methyl Acetate	2.59	43	5553	1.712	ug/l #	54
19) Methyl tert-butyl Ether	3.01	73	2490	0.342	ug/l	97
21) trans-1,2-Dichloroethene	3.16	96	683	0.321	ug/l #	47
24) 1,1-Dichloroethane	3.69	63	2451	0.612	ug/l #	81
25) 2-Butanone	4.69	43	3101	1.570	ug/l #	74
26) 2,2-Dichloropropane	4.67	77	4532	1.273	ug/l #	55
27) cis-1,2-Dichloroethene	4.59	96	7133	2.889	ug/l	85
31) Cyclohexane	5.65	56	4031	1.113	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15448	5.323	ug/l #	51
37) Ethyl Acetate	4.69	43	3101	0.914	ug/l #	1
38) Carbon Tetrachloride	5.65	117	18758	6.363	ug/l #	18
44) Trichloroethene	7.21	130	4034	1.848	ug/l	96
51) 4-Methyl-2-Pentanone	8.71	43	1558	0.445	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	58388	24.243	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58388	69.476	ug/l #	8

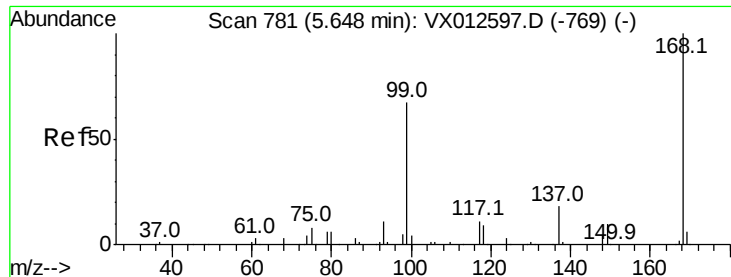
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 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: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

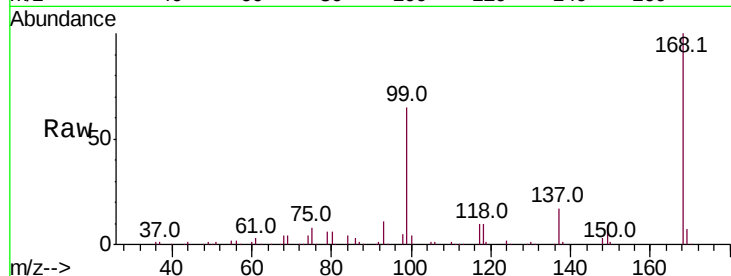
S49-0550

Tot Ion:168 Resp: 178644

Ion Ratio Lower Upper

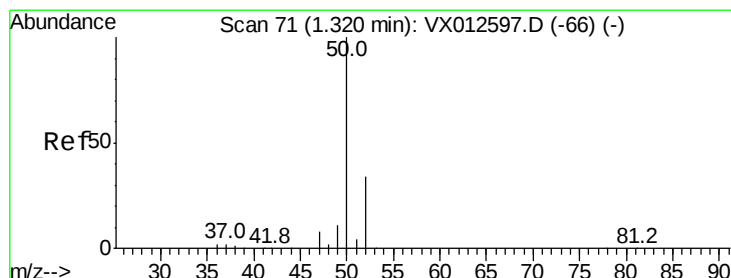
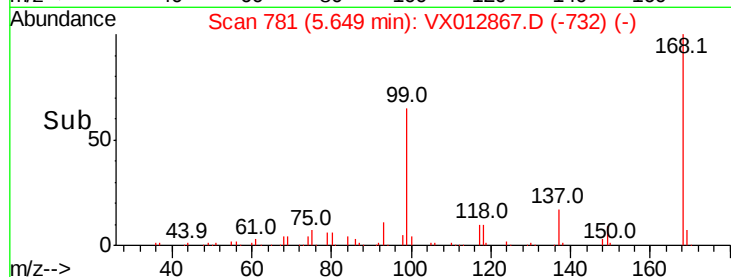
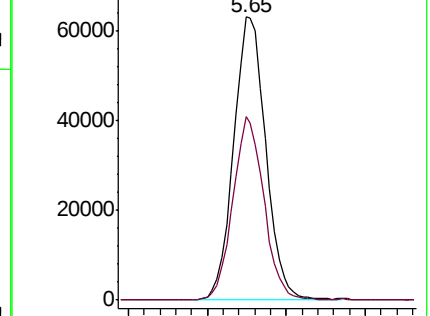
168 100

99 64.9 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: 0.364 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012867.D

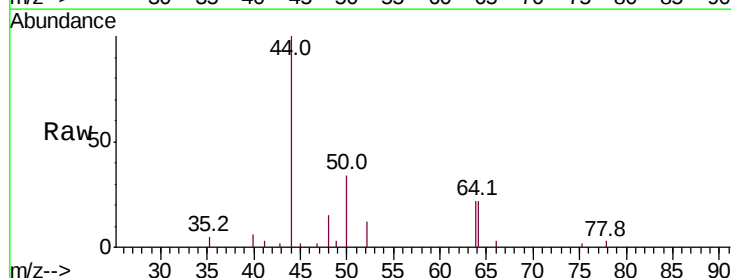
Acq: 08 Oct 2019 03:39

Tgt Ion: 50 Resp: 840

Ion Ratio Lower Upper

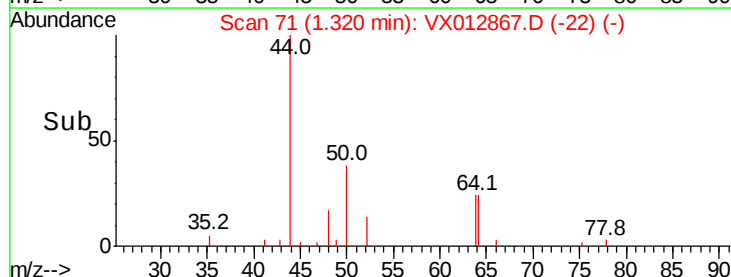
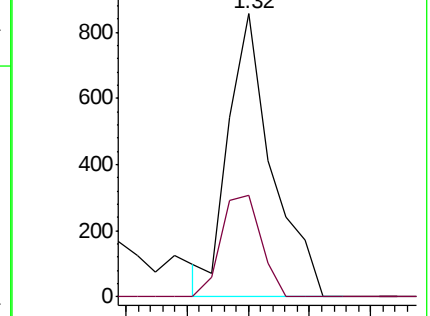
50 100

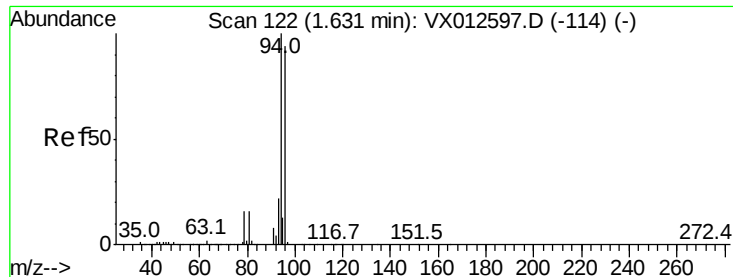
52 35.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.329 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

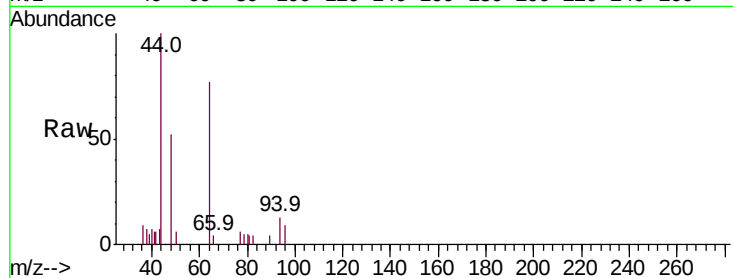
S49-0550

Tot Ion: 94 Resp: 297

Ion Ratio Lower Upper

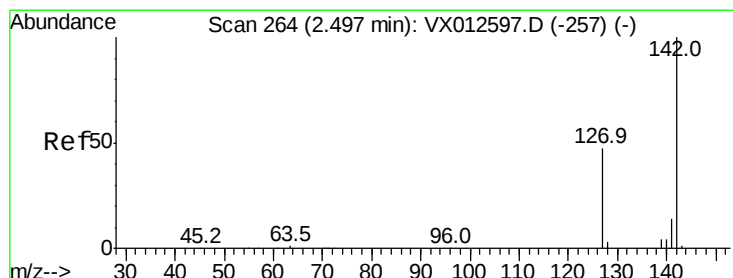
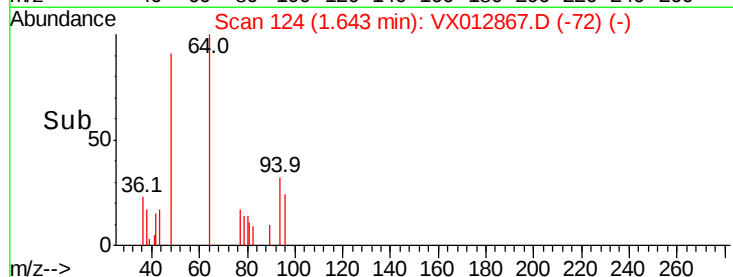
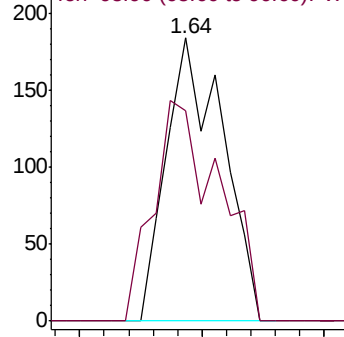
94 100

96 74.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.986 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

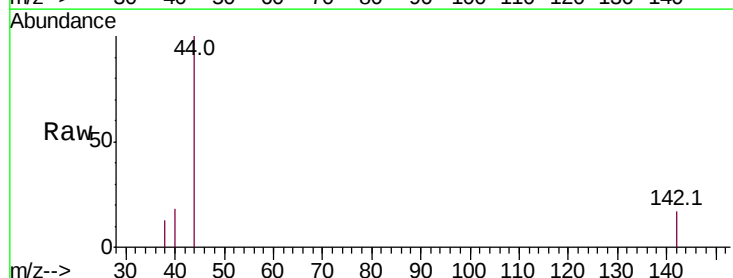
Tgt Ion: 142 Resp: 75

Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

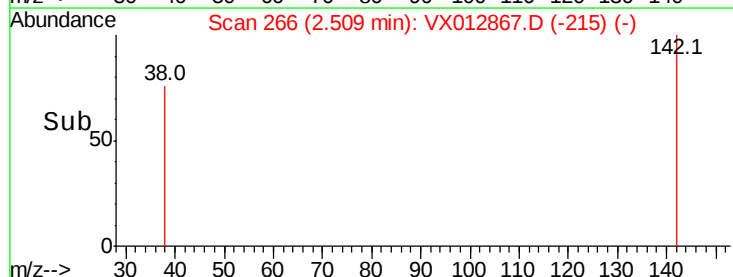
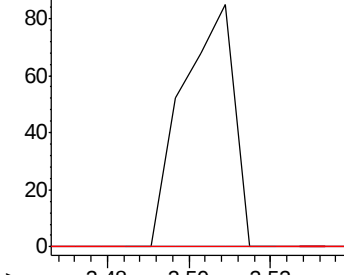
141 0.0 12.1 18.1#

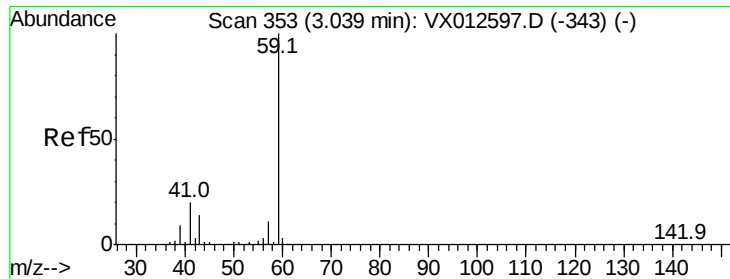


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

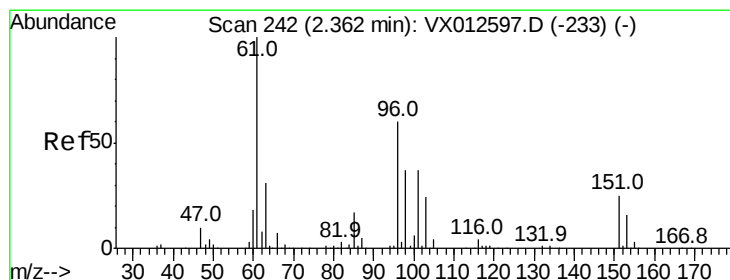
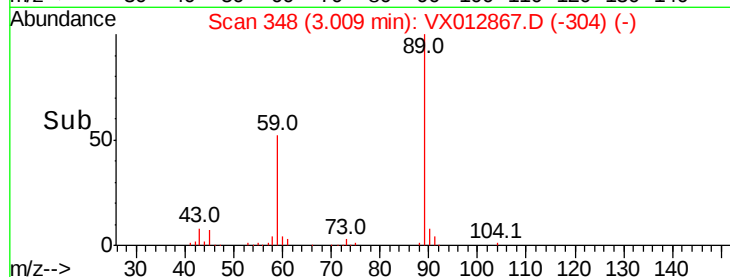
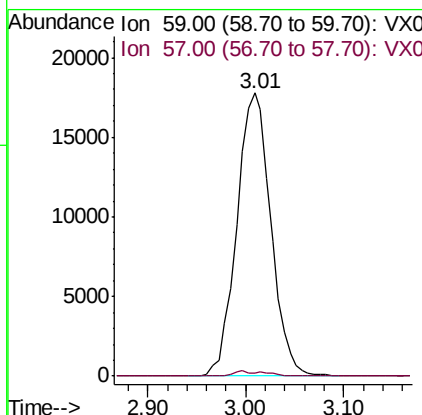
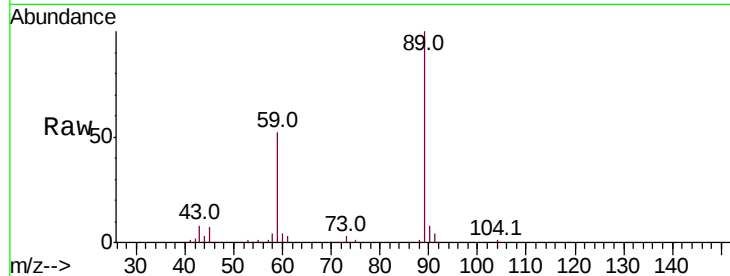




#11
Tert butyl alcohol
Concen: 65.865 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012867.D
Acq: 08 Oct 2019 03:39

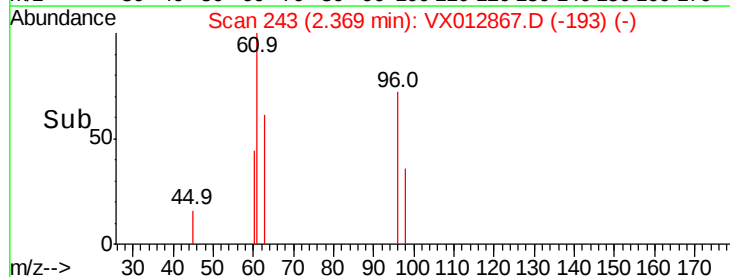
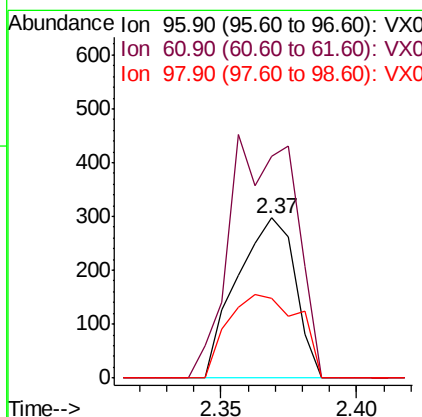
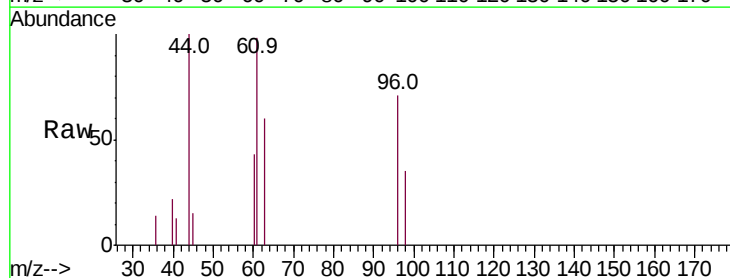
Instrument :
MSVOA_X
ClientSampled :
S49-0550

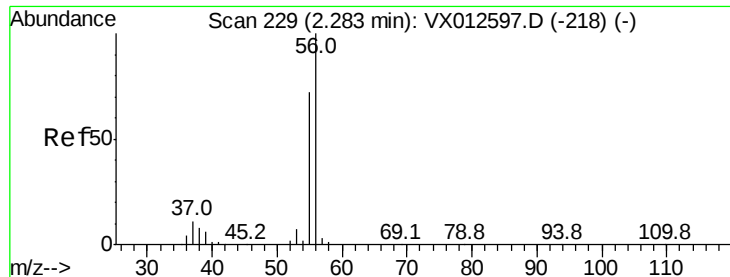
Tot Ion: 59 Resp: 42802
Ion Ratio Lower Upper
59 100
57 1.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.230 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX012867.D
Acq: 08 Oct 2019 03:39

Tgt Ion: 96 Resp: 441
Ion Ratio Lower Upper
96 100
61 138.7 133.8 200.6
98 50.2 49.9 74.9





#13

Acrolein

Concen: 10.289 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampled :

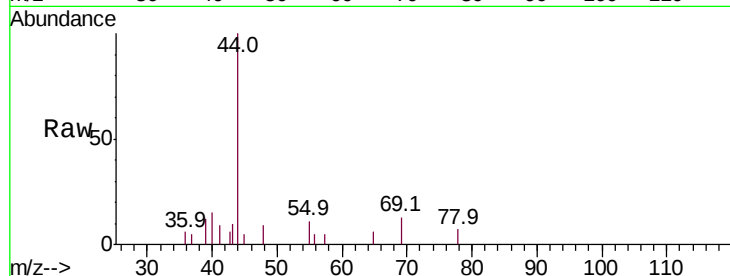
S49-0550

Tot Ion: 56 Resp: 21

Ion Ratio Lower Upper

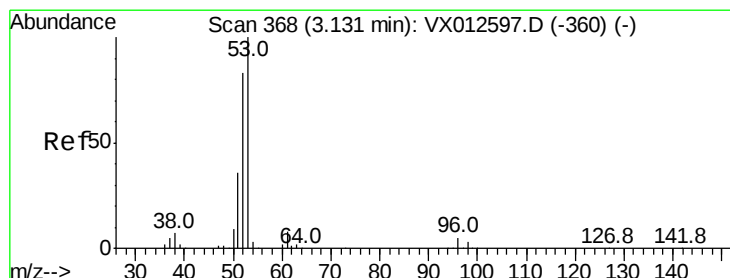
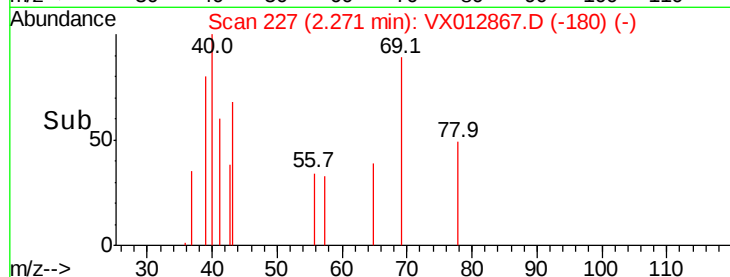
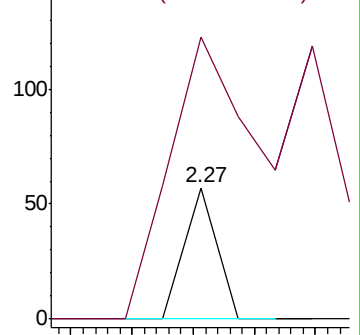
56 100

55 876.2 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.600 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.12 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

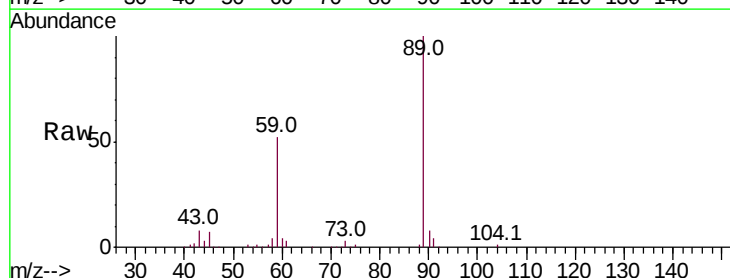
Tgt Ion: 53 Resp: 791

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

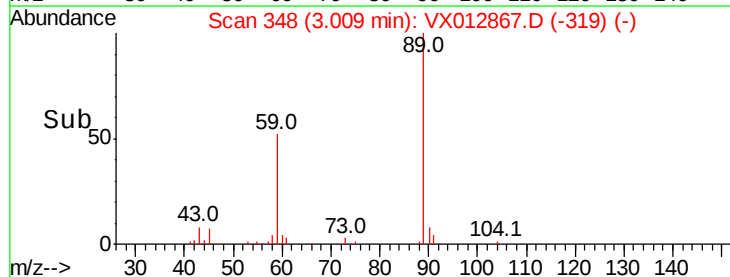
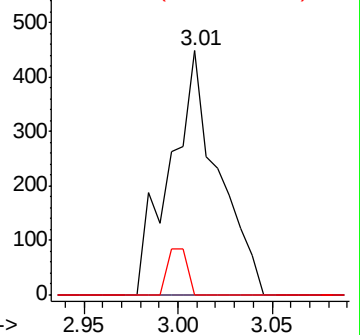
51 7.7 29.6 44.4#

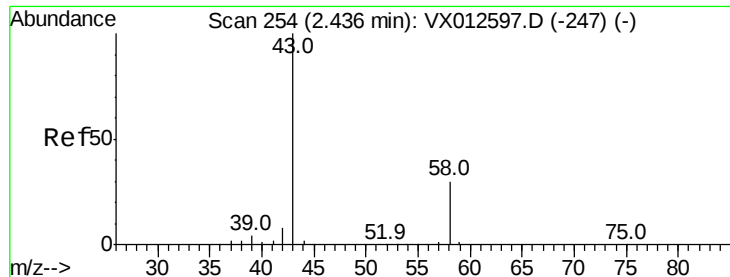


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.601 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampled :

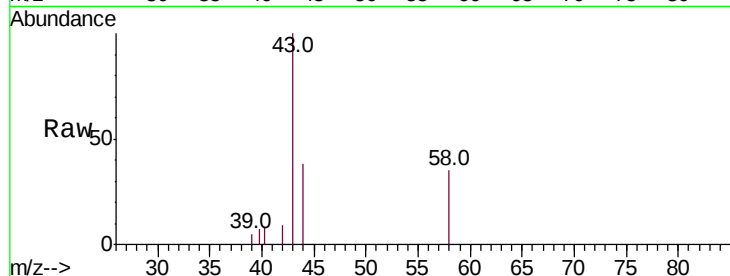
S49-0550

Tot Ion: 43 Resp: 2206

Ion Ratio Lower Upper

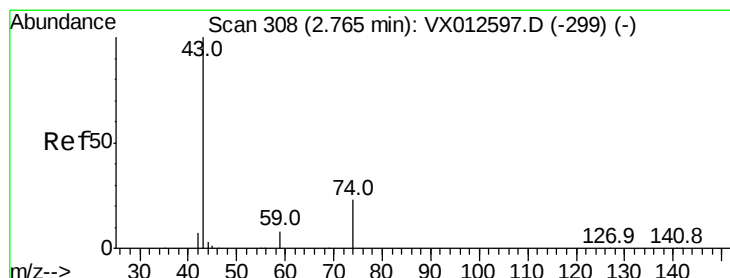
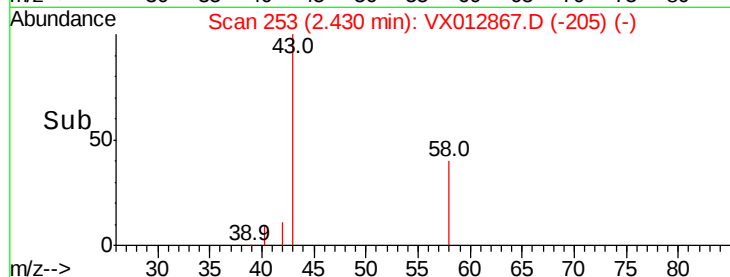
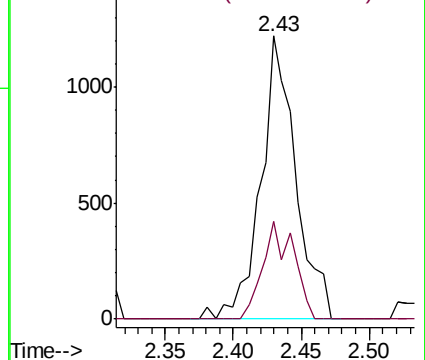
43 100

58 34.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.712 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012867.D

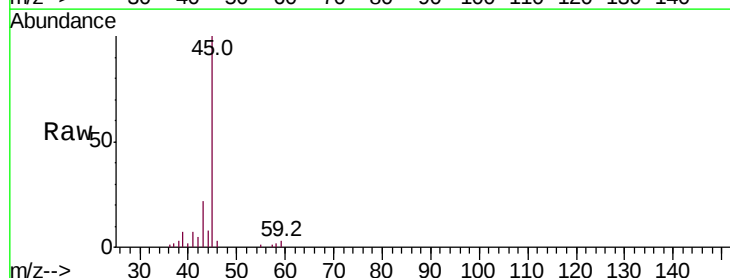
Acq: 08 Oct 2019 03:39

Tgt Ion: 43 Resp: 5553

Ion Ratio Lower Upper

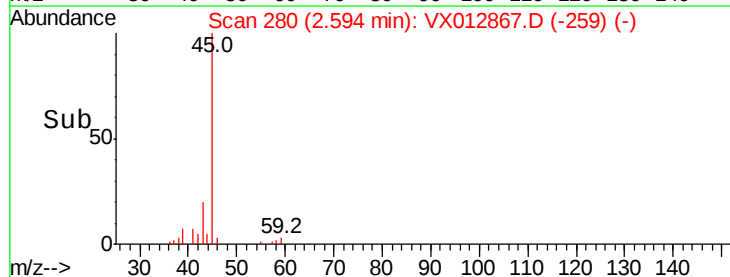
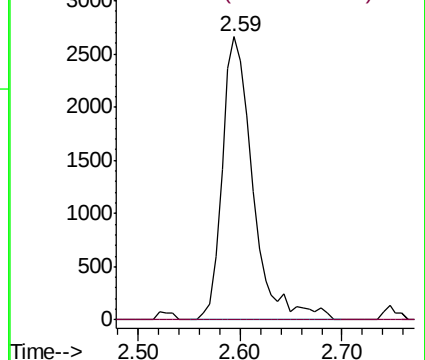
43 100

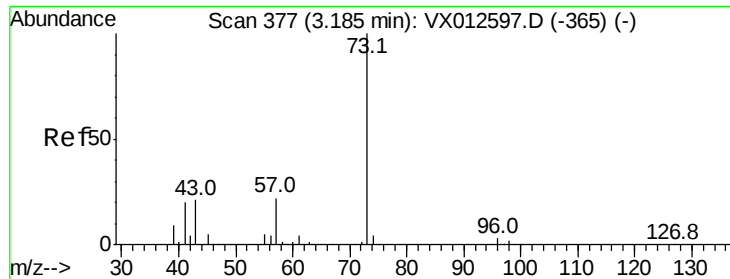
74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#19

Methyl tert-butyl Ether

Concen: 0.342 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.18 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampled :

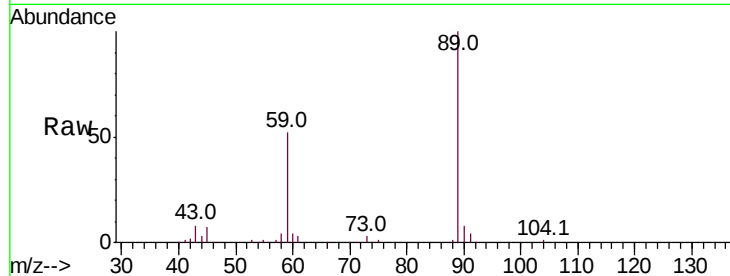
S49-0550

Tot Ion: 73 Resp: 2490

Ion Ratio Lower Upper

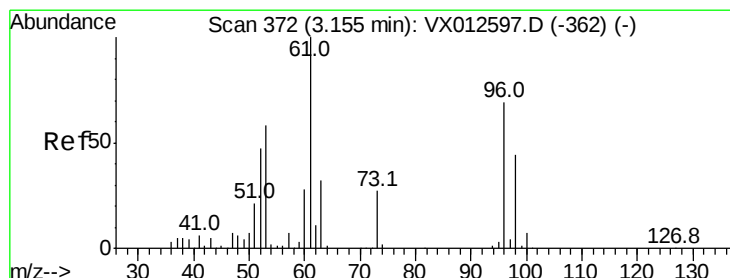
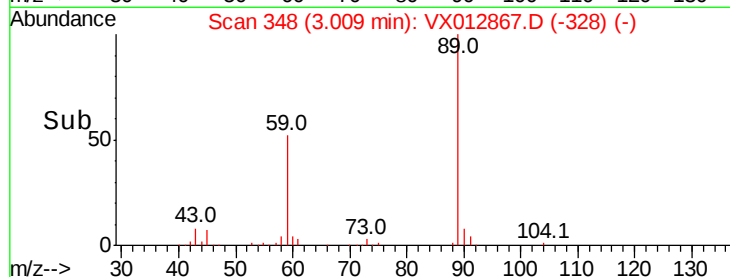
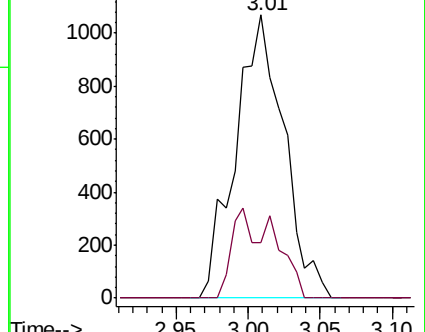
73 100

57 19.7 16.8 25.2



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.321 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

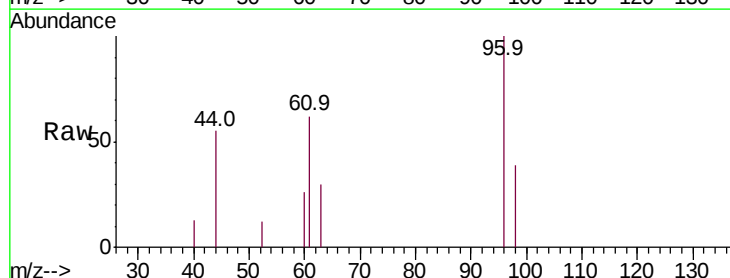
Tgt Ion: 96 Resp: 683

Ion Ratio Lower Upper

96 100

61 62.1 112.0 168.0#

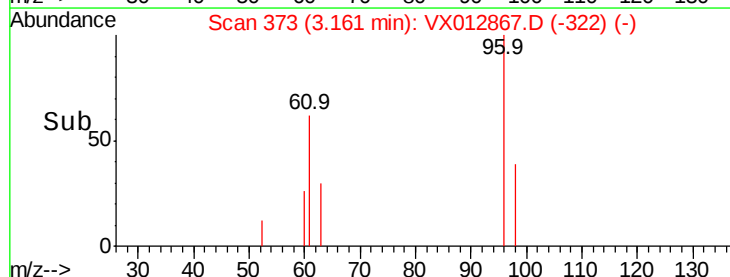
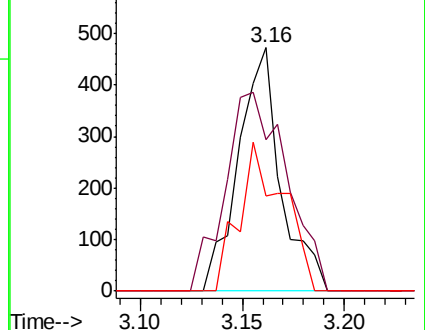
98 39.0 47.8 71.8#

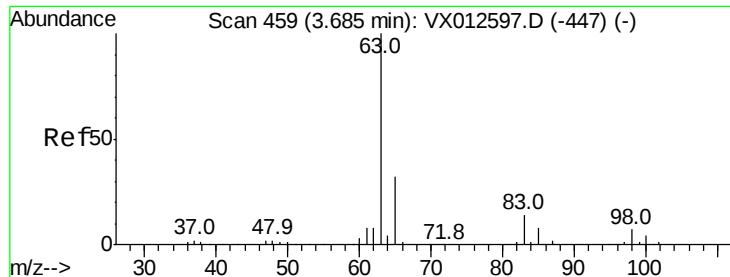


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 0.612 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

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ClientSampleId :

S49-0550

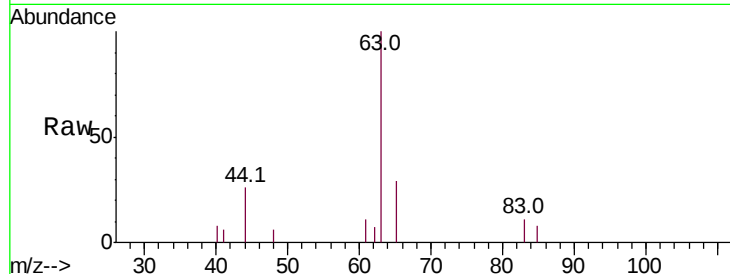
Tot Ion: 63 Resp: 2451

Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.7#

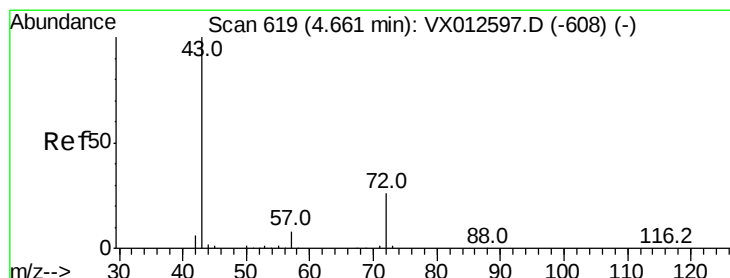
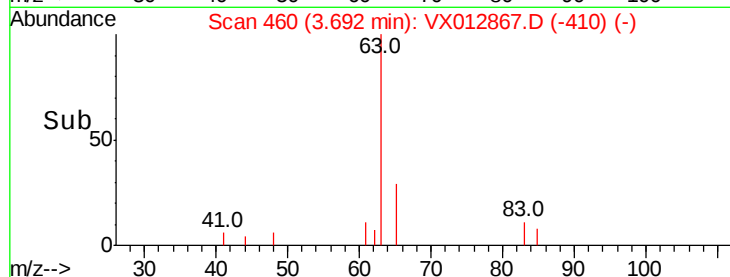
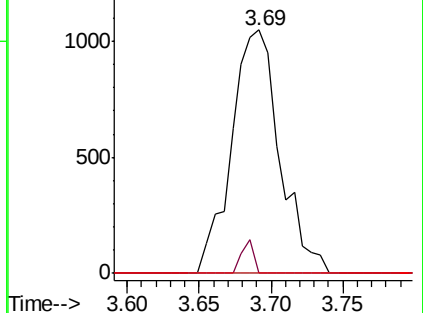
100 0.0 2.3 6.9#



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



#25

2-Butanone

Concen: 1.570 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX012867.D

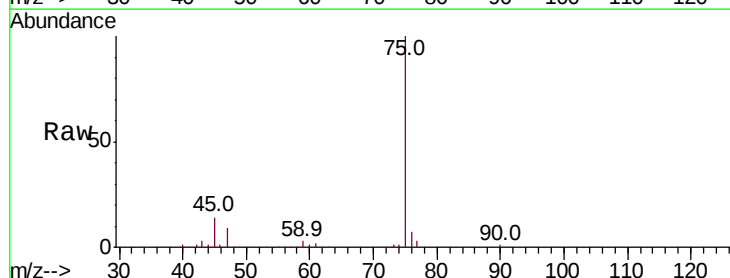
Acq: 08 Oct 2019 03:39

Tgt Ion: 43 Resp: 3101

Ion Ratio Lower Upper

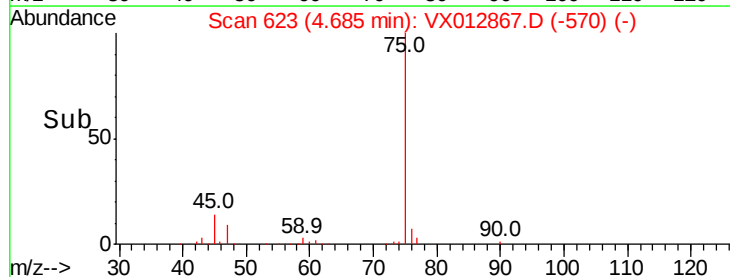
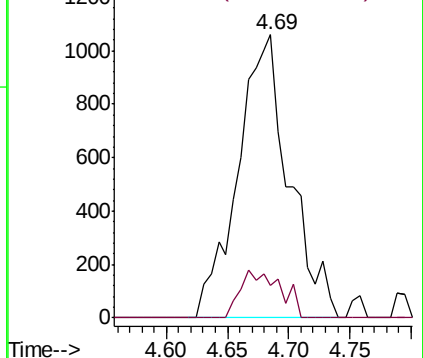
43 100

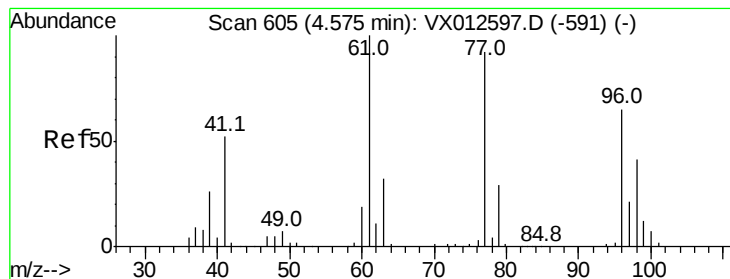
72 11.4 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 1.273 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.10 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

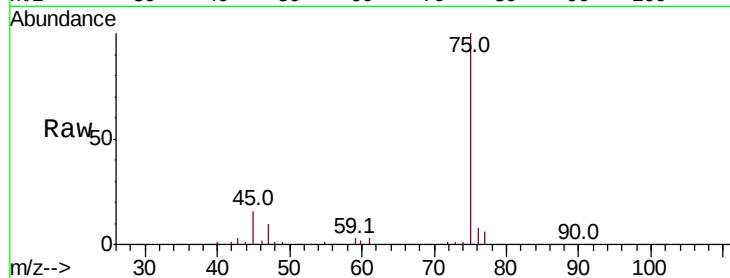
S49-0550

Tot Ion: 77 Resp: 4532

Ion Ratio Lower Upper

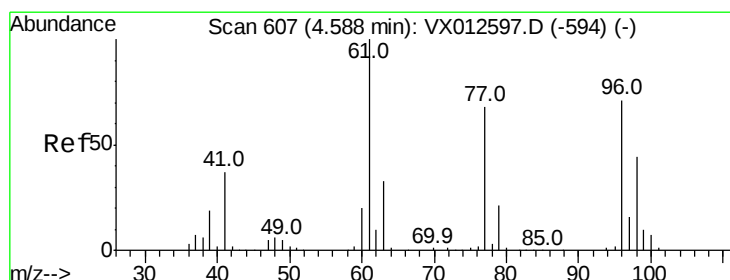
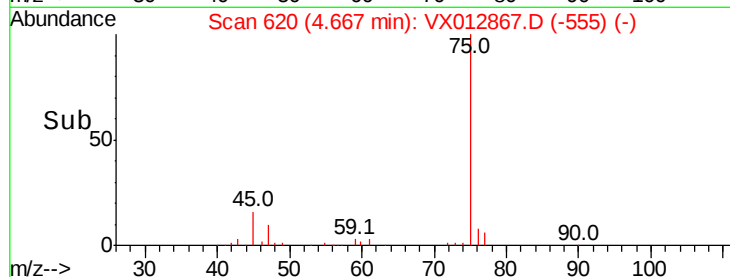
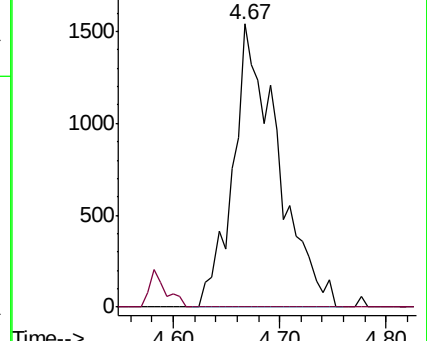
77 100

97 0.0 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.889 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

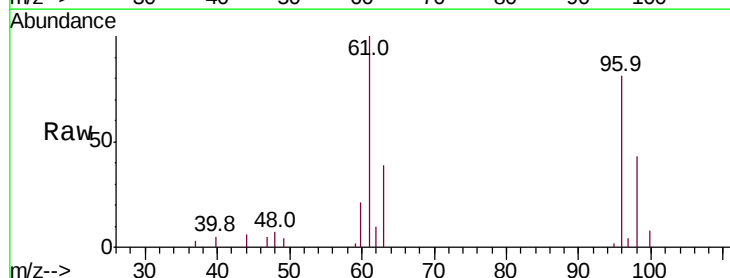
Tgt Ion: 96 Resp: 7133

Ion Ratio Lower Upper

96 100

61 132.9 0.0 319.4

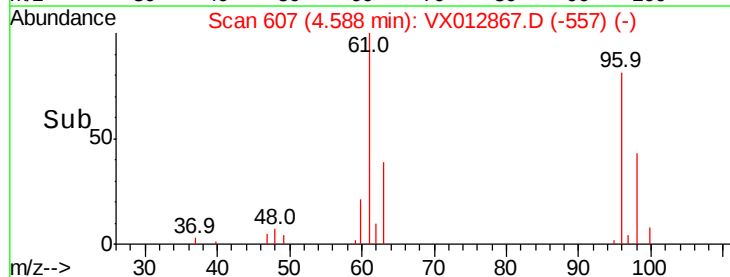
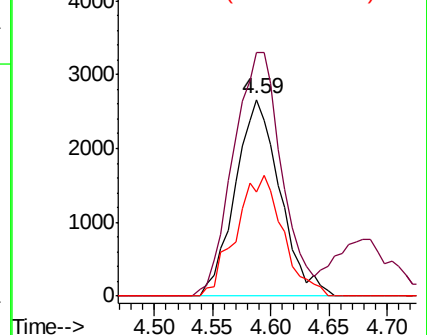
98 63.8 0.0 130.6

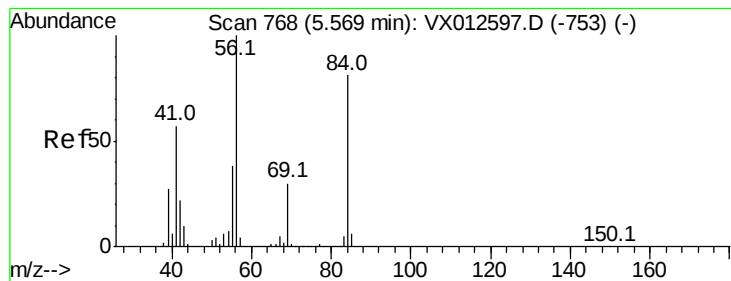


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.113 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0550

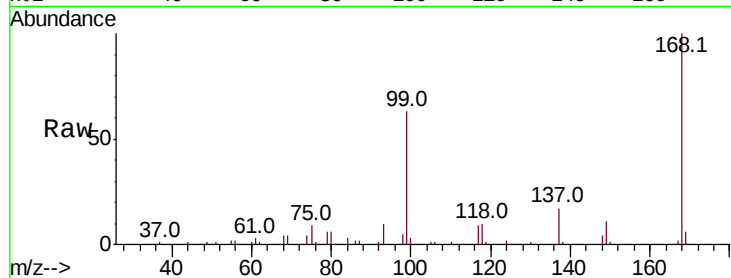
Tot Ion: 56 Resp: 4031

Ion Ratio Lower Upper

56 100

69 161.7 25.0 37.6#

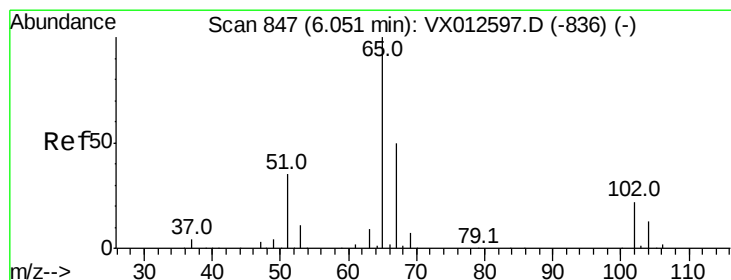
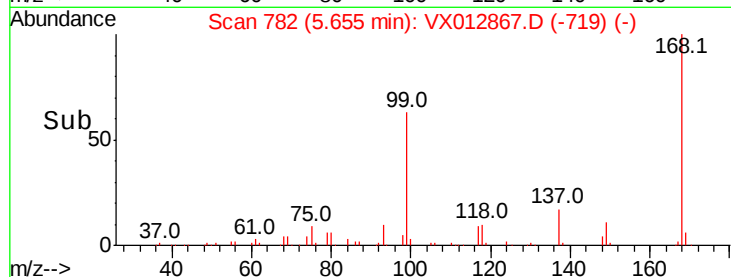
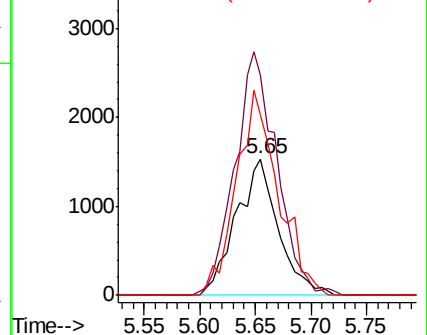
84 132.1 66.4 99.6#



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: 44.903 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012867.D

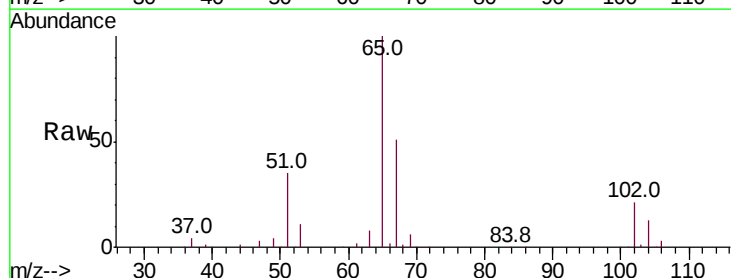
Acq: 08 Oct 2019 03:39

Tgt Ion: 65 Resp: 116811

Ion Ratio Lower Upper

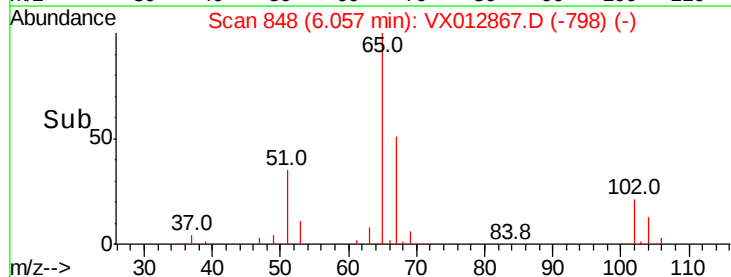
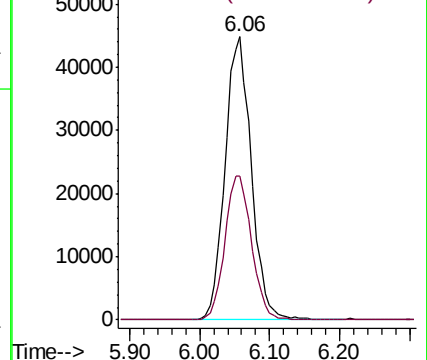
65 100

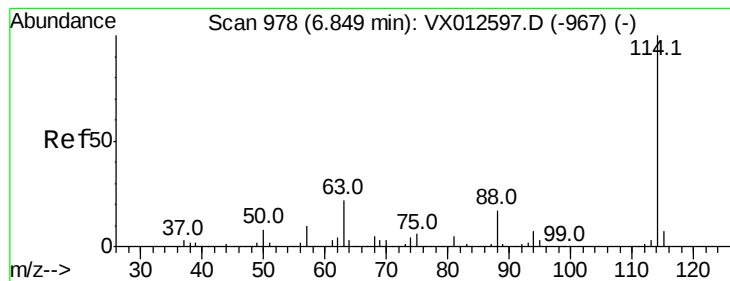
67 51.8 0.0 101.2



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: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0550

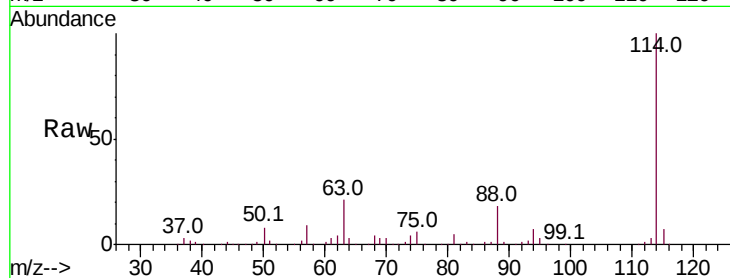
Tot Ion:114 Resp: 301083

Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.2

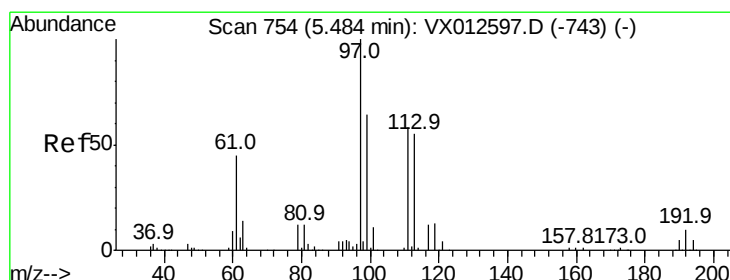
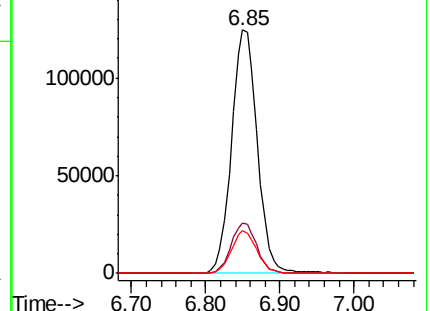
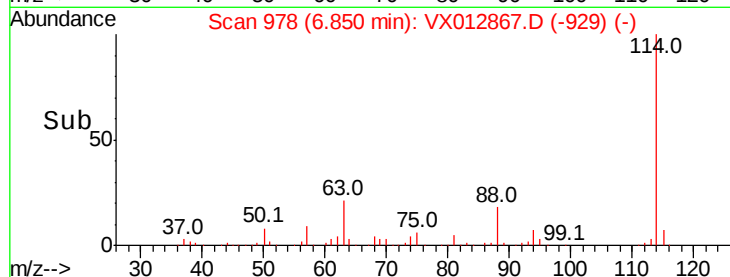
88 17.5 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.695 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

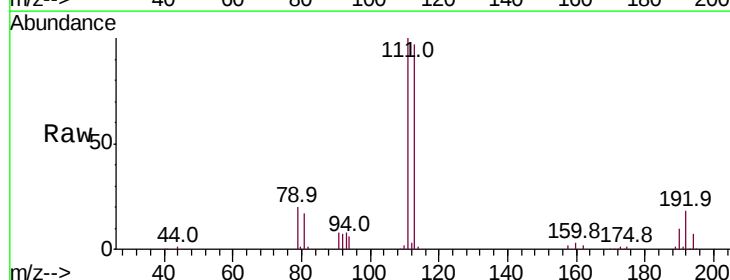
Tgt Ion:113 Resp: 89107

Ion Ratio Lower Upper

113 100

111 102.8 83.4 125.2

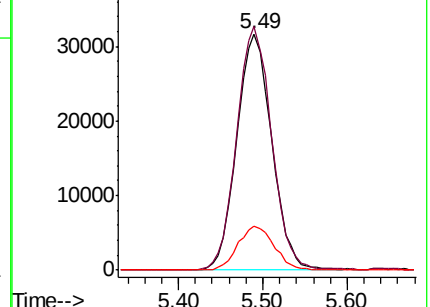
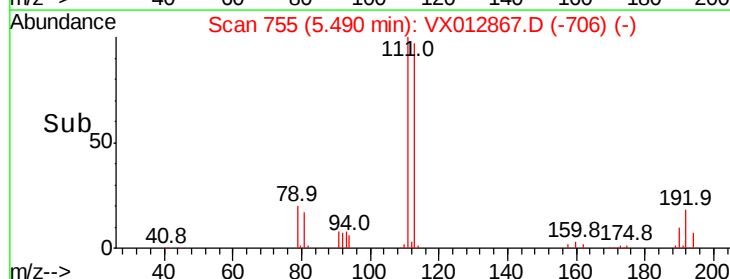
192 19.2 14.4 21.6

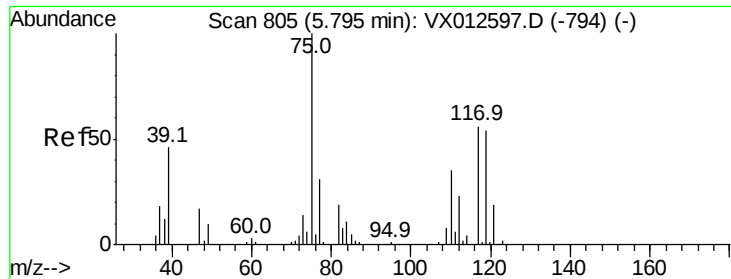


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

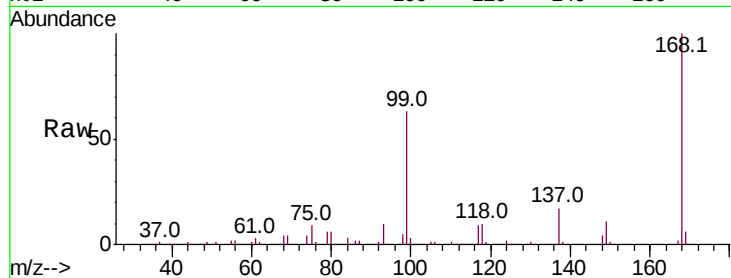




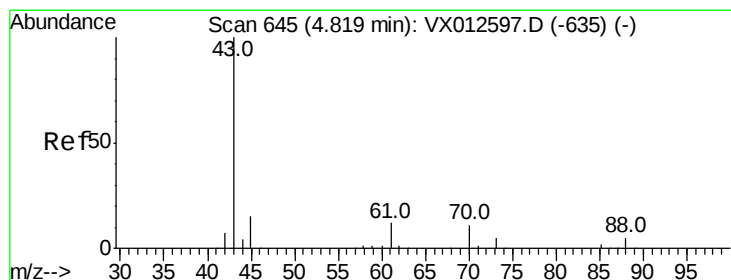
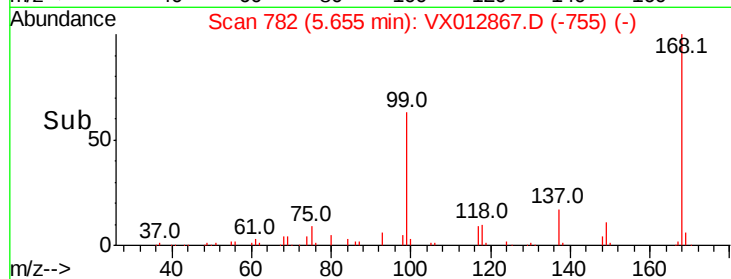
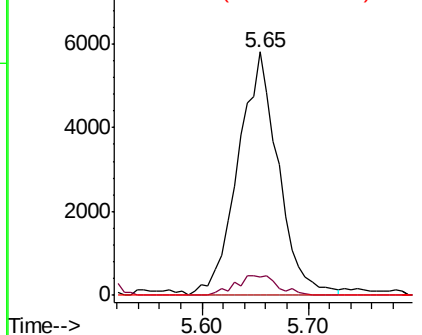
#36
 1,1-Dichloropropene
 Concen: 5.323 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012867.D
 Acq: 08 Oct 2019 03:39

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0550

Tot Ion: 75 Resp: 15448
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.7 50.0#
 77 0.0 24.2 36.2#

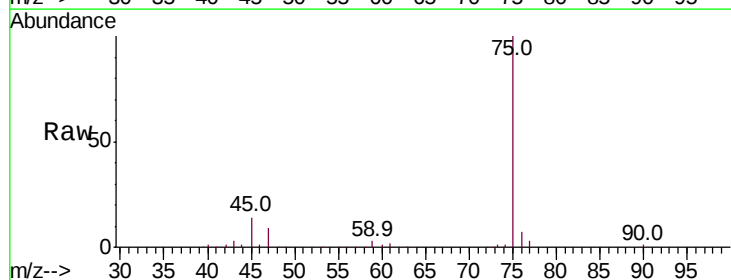


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

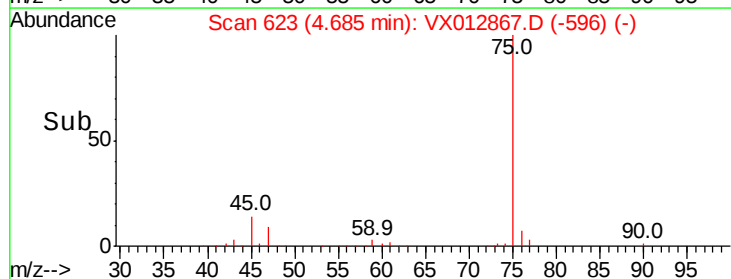
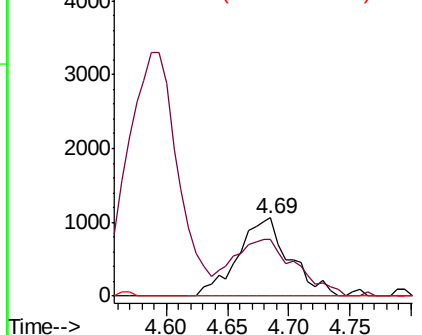


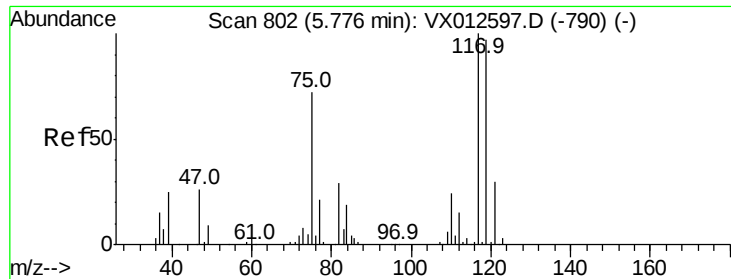
#37
 Ethyl Acetate
 Concen: 0.914 ug/l
 RT: 4.69 min Scan# 623
 Delta R.T. -0.13 min
 Lab File: VX012867.D
 Acq: 08 Oct 2019 03:39

Tgt Ion: 43 Resp: 3101
 Ion Ratio Lower Upper
 43 100
 61 89.1 10.2 15.4#
 70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0

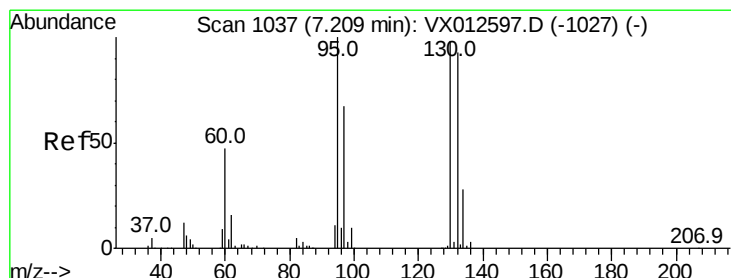
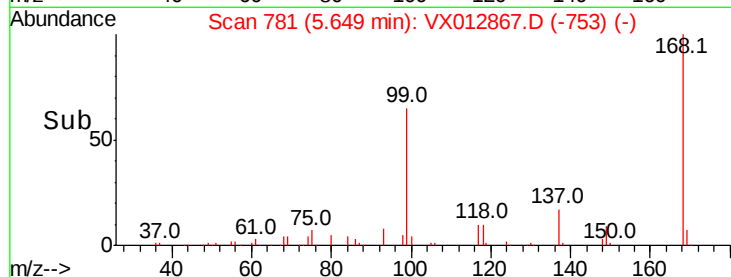
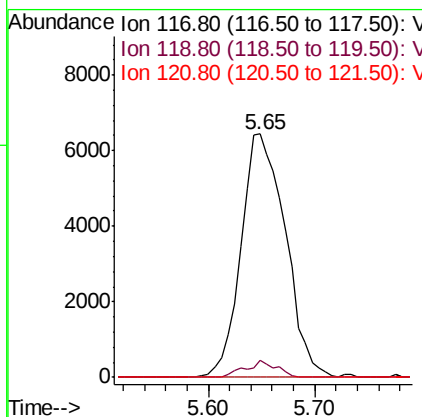
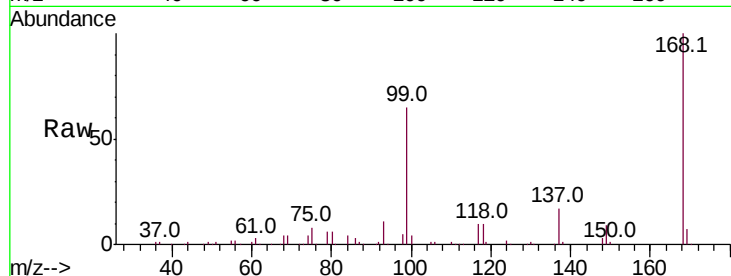




#38
 Carbon Tetrachloride
 Concen: 6.363 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012867.D
 Acq: 08 Oct 2019 03:39

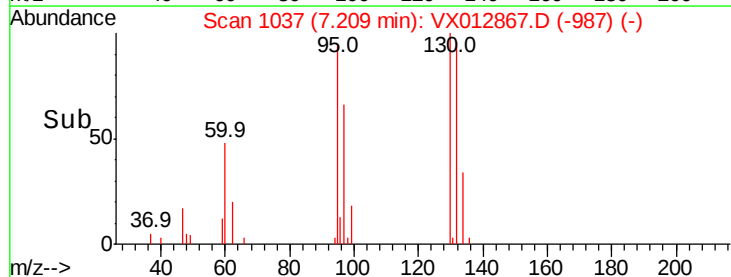
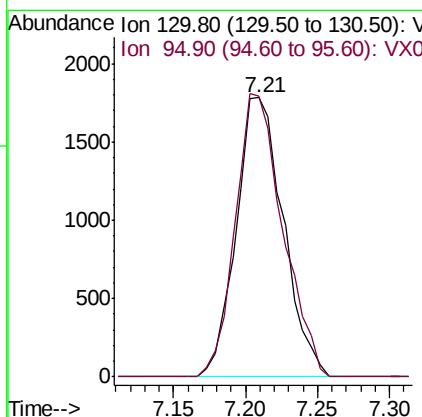
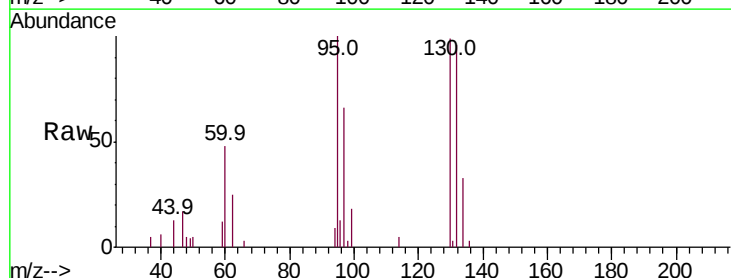
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0550

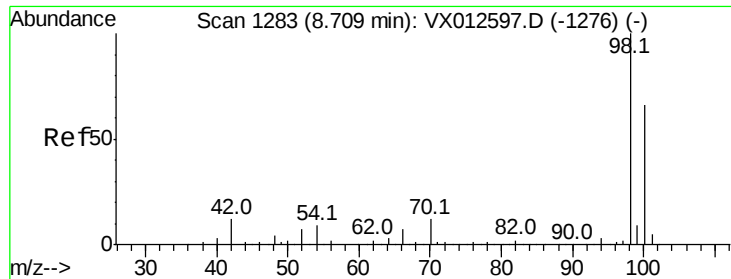
Tot Ion:117 Resp: 18758
 Ion Ratio Lower Upper
 117 100
 119 6.8 75.7 113.5#
 121 0.0 24.2 36.4#



#44
 Trichloroethene
 Concen: 1.848 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VX012867.D
 Acq: 08 Oct 2019 03:39

Tgt Ion:130 Resp: 4034
 Ion Ratio Lower Upper
 130 100
 95 100.5 0.0 193.0





#50

Toluene-d8

Concen: 51.135 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampled :

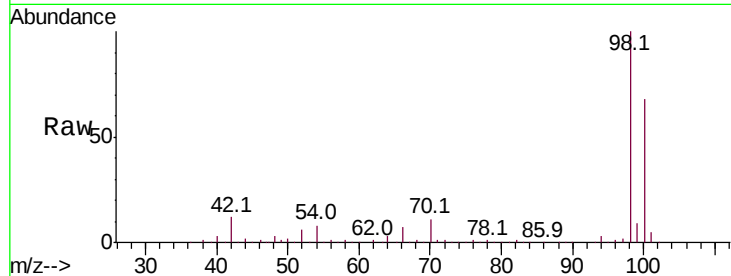
S49-0550

Tot Ion: 98 Resp: 353099

Ion Ratio Lower Upper

98 100

100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

150000

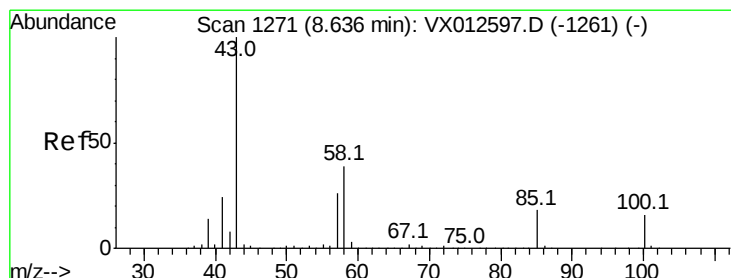
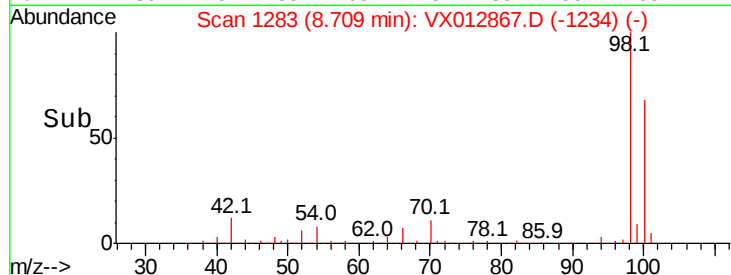
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.445 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012867.D

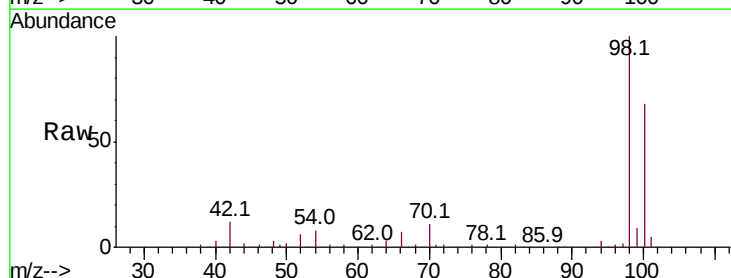
Acq: 08 Oct 2019 03:39

Tgt Ion: 43 Resp: 1558

Ion Ratio Lower Upper

43 100

58 180.9 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

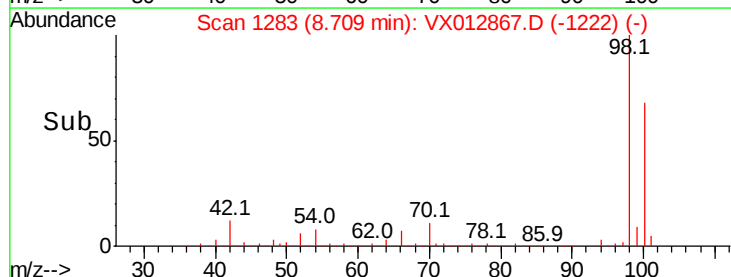
1000

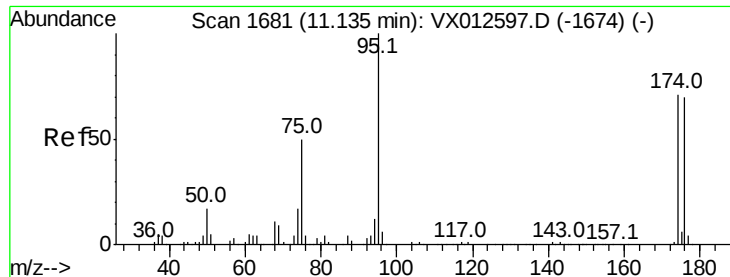
500

0

Time-->

8.65 8.70 8.75





#62

4-Bromofluorobenzene

Concen: 42.711 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0550

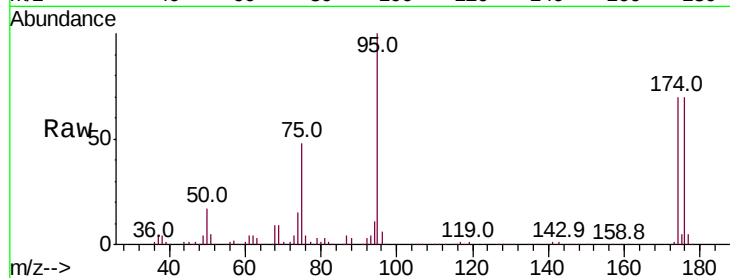
Tot Ion: 95 Resp: 115968

Ion Ratio Lower Upper

95 100

174 69.1 0.0 140.0

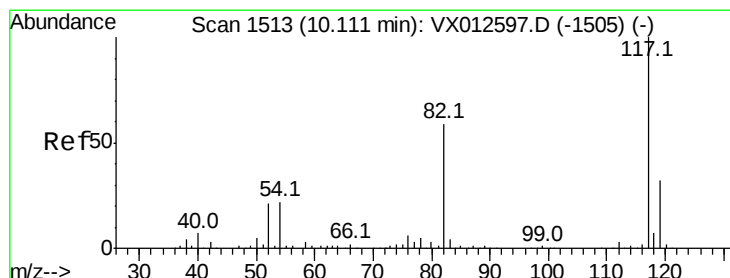
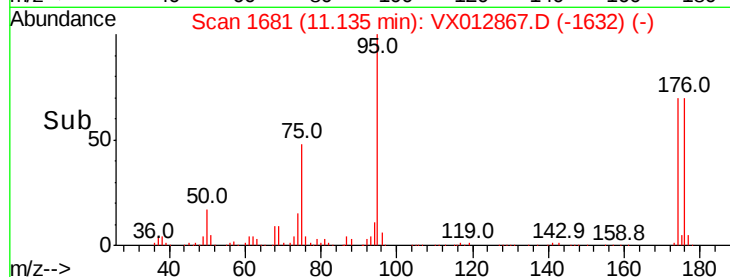
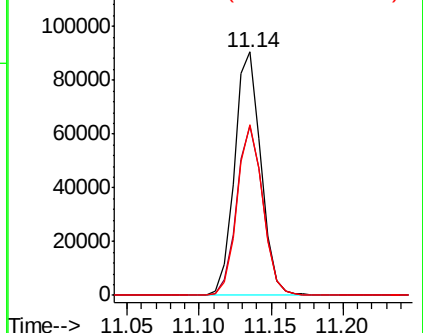
176 68.1 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

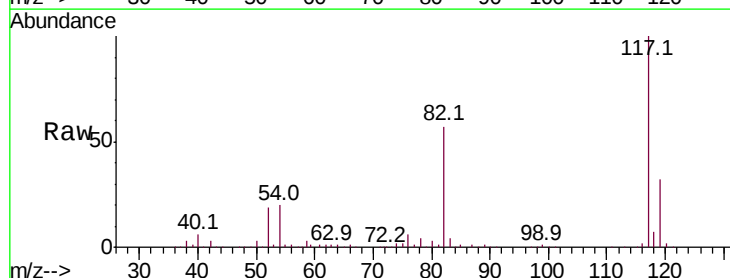
Tgt Ion: 117 Resp: 249432

Ion Ratio Lower Upper

117 100

82 57.2 45.9 68.9

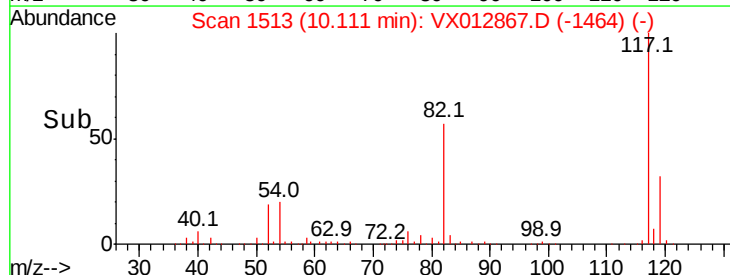
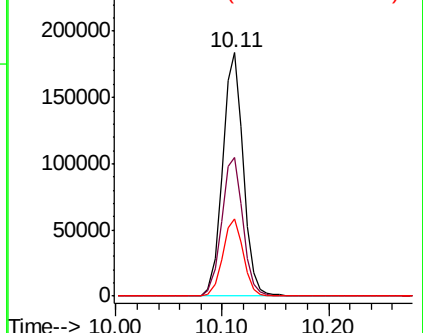
119 31.8 25.3 37.9

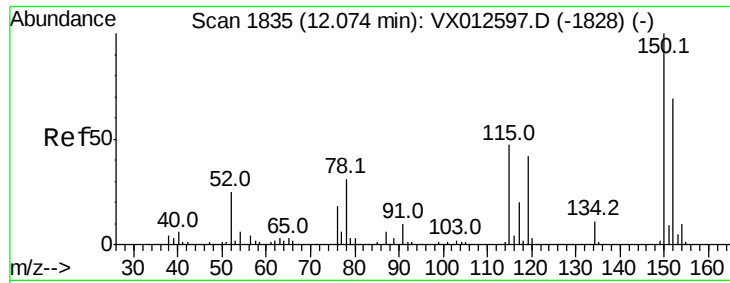


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0550

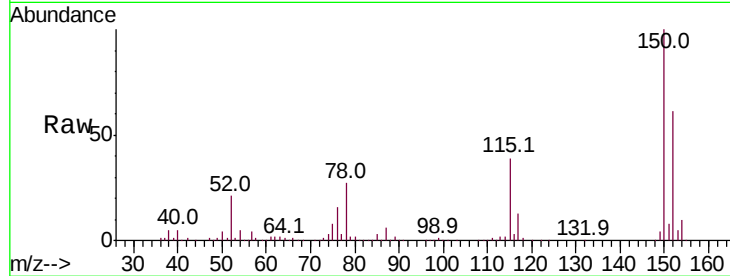
Tot Ion:152 Resp: 91047

Ion Ratio Lower Upper

152 100

115 63.2 44.1 132.3

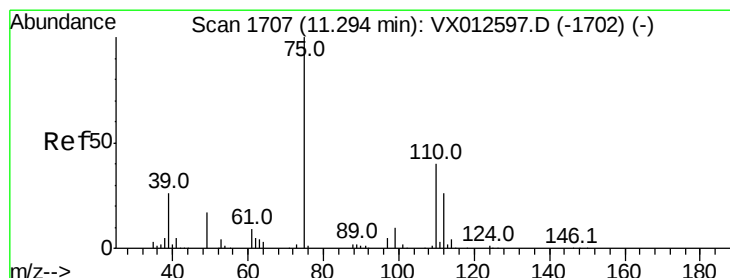
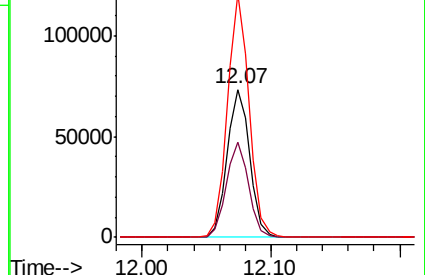
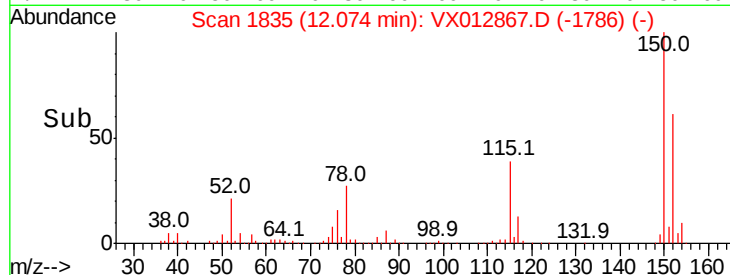
150 157.0 0.0 343.8



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: 24.243 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012867.D

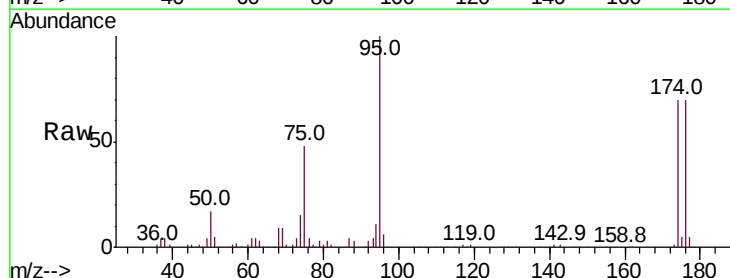
Acq: 08 Oct 2019 03:39

Tgt Ion: 75 Resp: 58388

Ion Ratio Lower Upper

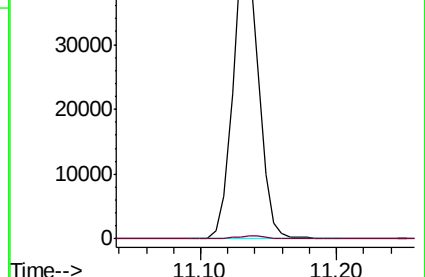
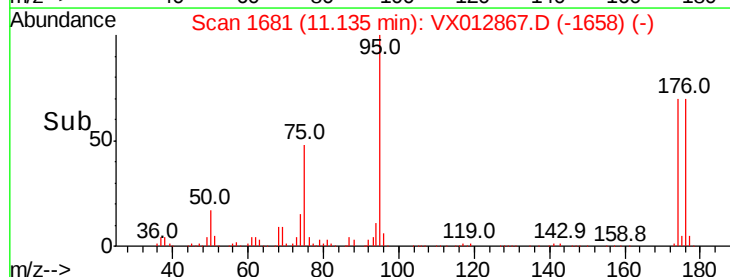
75 100

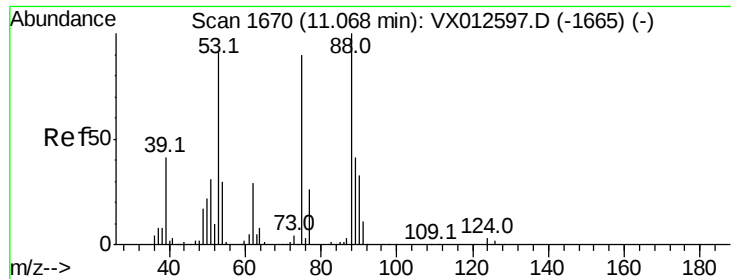
77 1.2 19.7 59.0#



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: 69.476 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012867.D

Acq: 08 Oct 2019 03:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0550

Tot Ion: 75 Resp: 58388

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

