

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011105.D
 Acq On : 26 Jul 2019 20:53
 Operator : JC/SP
 Sample : PB121723ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#11

Quant Time: Jul 27 02:06:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	192911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	311115	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	297320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132910	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	107100	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
35) Dibromofluoromethane	5.50	113	97473	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	8.71	98	386510	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
62) 4-Bromofluorobenzene	11.13	95	133589	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	

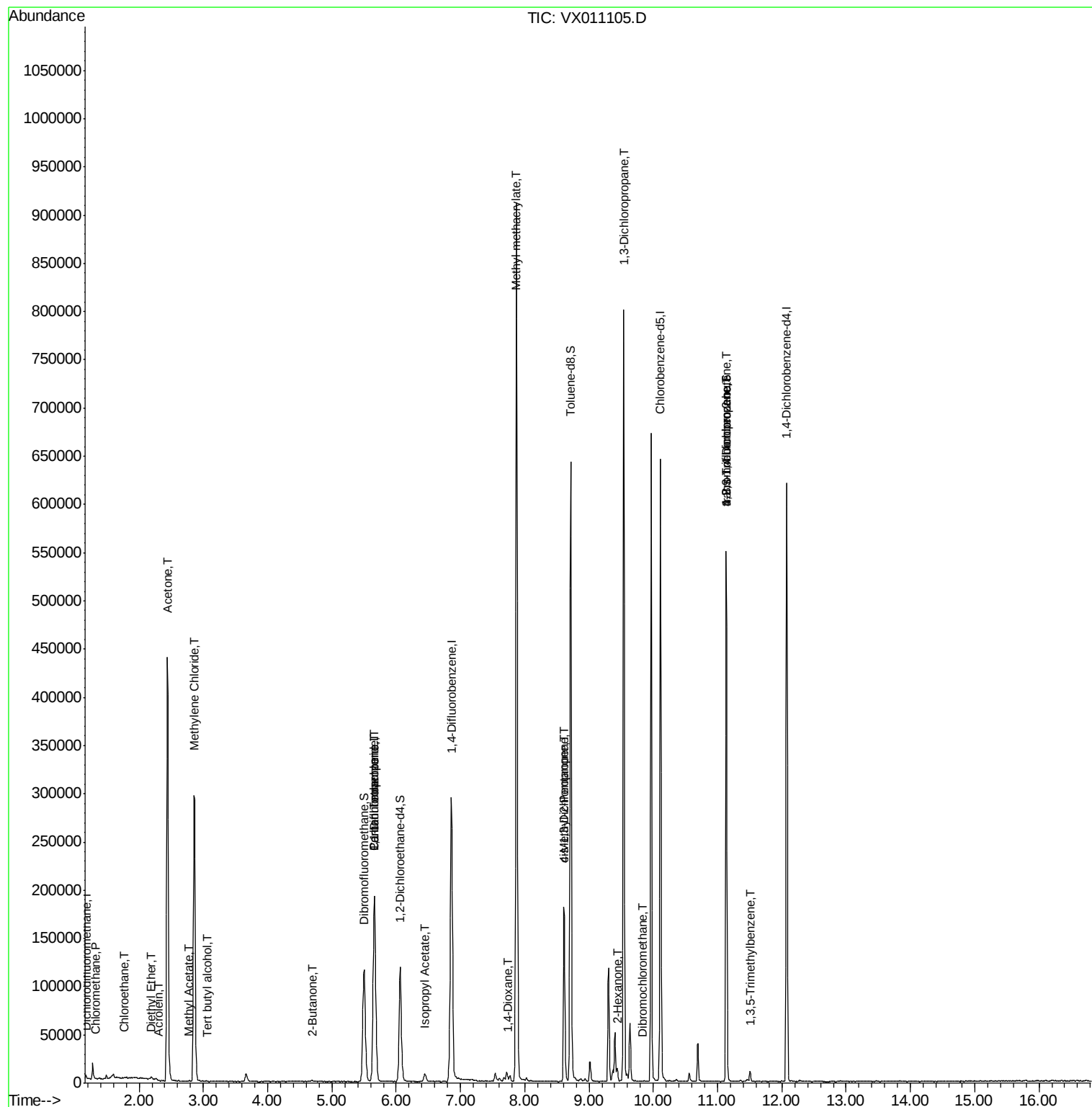
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	19	0.555	ug/l #	43
3) Chloromethane	1.33	50	391	0.220	ug/l	94
6) Chloroethane	1.77	64	234	0.203	ug/l #	76
8) Diethyl Ether	2.19	74	748	0.709	ug/l	83
11) Tert butyl alcohol	3.06	59	628	1.314	ug/l #	73
13) Acrolein	2.31	56	65	0.235	ug/l #	1
16) Acetone	2.44	43	453804	489.589	ug/l	96
18) Methyl Acetate	2.77	43	1350	0.640	ug/l	94
20) Methylene Chloride	2.86	84	148209	75.451	ug/l	97
25) 2-Butanone	4.70	43	2764	2.077	ug/l	95
36) 1,1-Dichloropropene	5.66	75	12667	4.957	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18421	6.917	ug/l #	19
43) Isopropyl Acetate	6.45	43	11624	2.702	ug/l	97
48) Methyl methacrylate	7.87	41	74932	35.748	ug/l #	38
49) 1,4-Dioxane	7.74	88	25	0.426	ug/l #	28
51) 4-Methyl-2-Pentanone	8.61	43	58608	21.012	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	29335	9.674	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	7667	2.283	ug/l #	43
59) 2-Hexanone	9.44	43	8155	3.770	ug/l #	23
60) Dibromochloromethane	9.82	129	27	2.538	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	67344	28.078	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	4577	0.610	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	67344	69.456	ug/l #	11

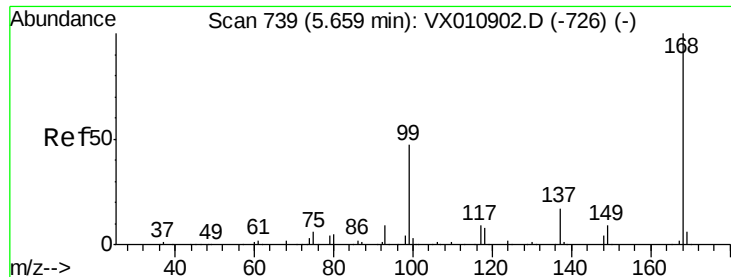
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 02:06:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

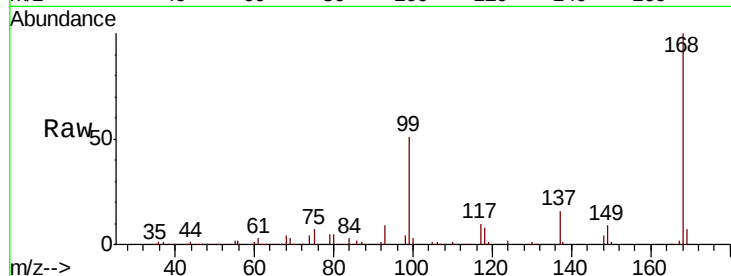
PB121723ZHE#11

Tot Ion:168 Resp: 192911

Ion Ratio Lower Upper

168 100

99 50.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

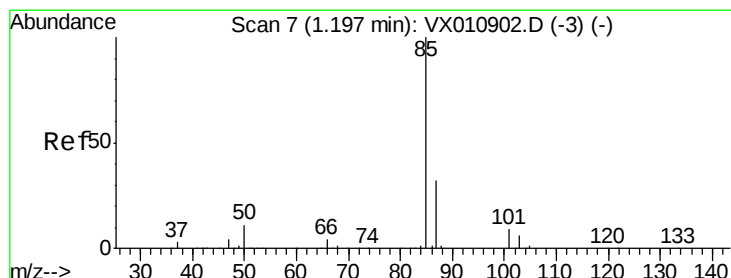
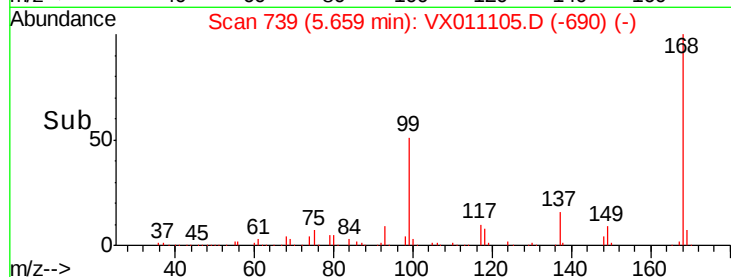
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.555 ug/l

RT: 1.18 min Scan# 5

Delta R.T. -0.01 min

Lab File: VX011105.D

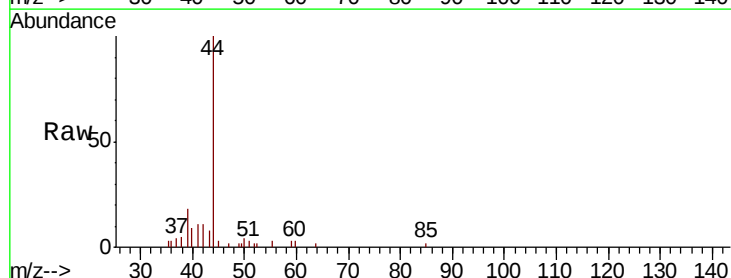
Acq: 26 Jul 2019 20:53

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

60

50

40

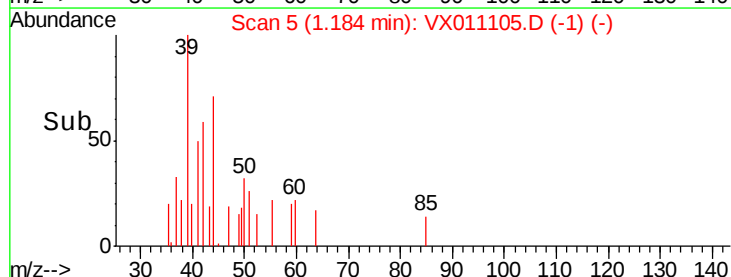
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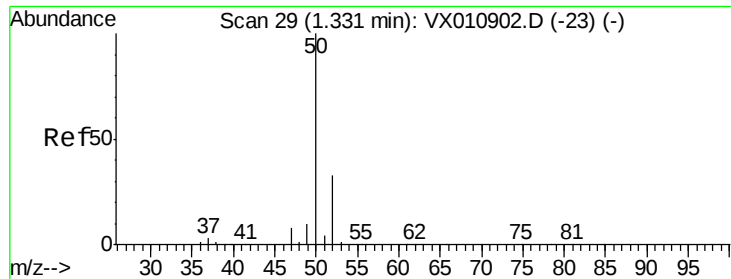
20

10

0

Time--> 1.17 1.18 1.19 1.20





#3

Chloromethane

Concen: 0.220 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

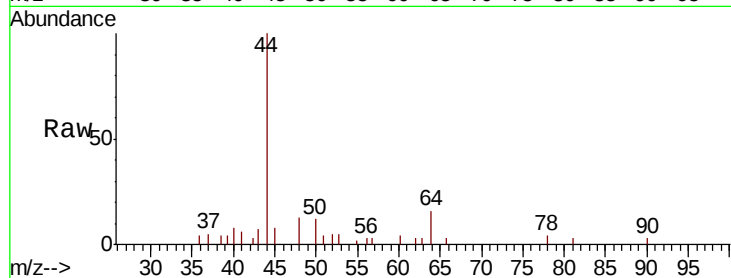
PB121723ZHE#11

Tot Ion: 50 Resp: 391

Ion Ratio Lower Upper

50 100

52 36.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

250

200

150

100

50

0

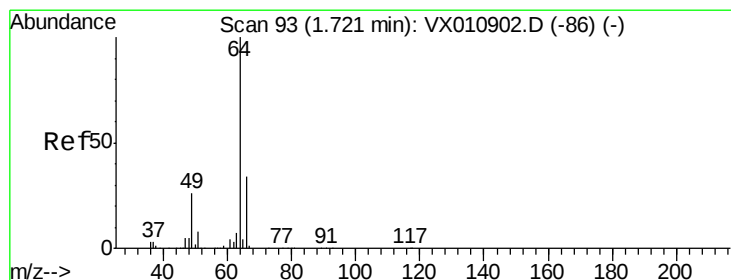
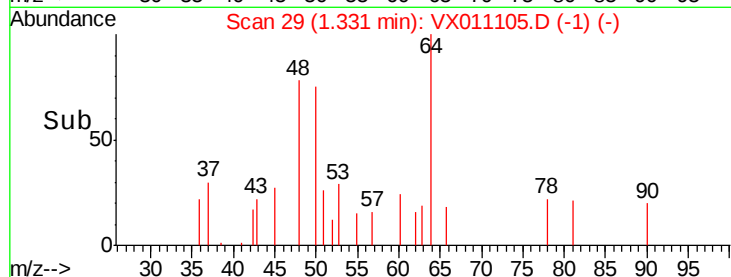
1.30

1.32

1.34

1.36

Time-->



#6

Chloroethane

Concen: 0.203 ug/l

RT: 1.77 min Scan# 101

Delta R.T. 0.05 min

Lab File: VX011105.D

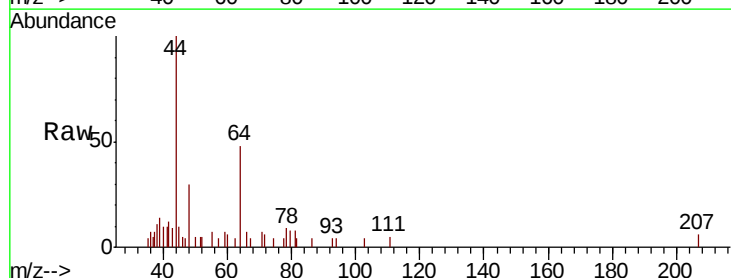
Acq: 26 Jul 2019 20:53

Tgt Ion: 64 Resp: 234

Ion Ratio Lower Upper

64 100

66 47.3 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

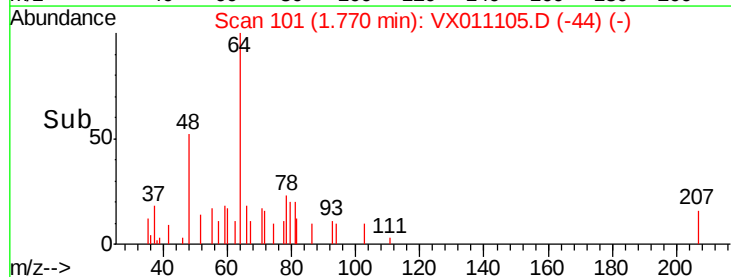
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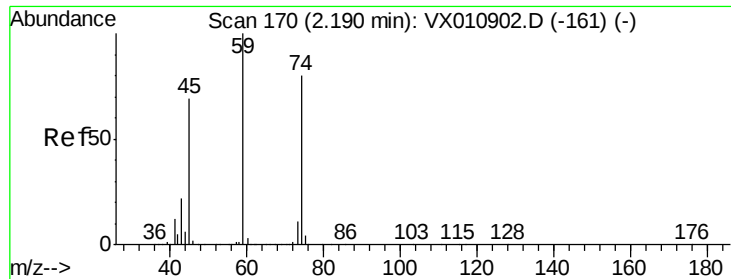
1.74

1.76

1.78

Time-->





#8

Diethyl Ether

Concen: 0.709 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

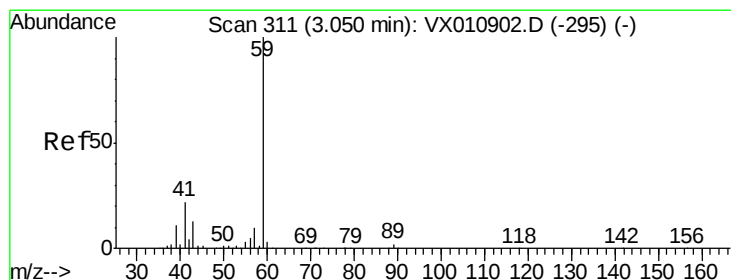
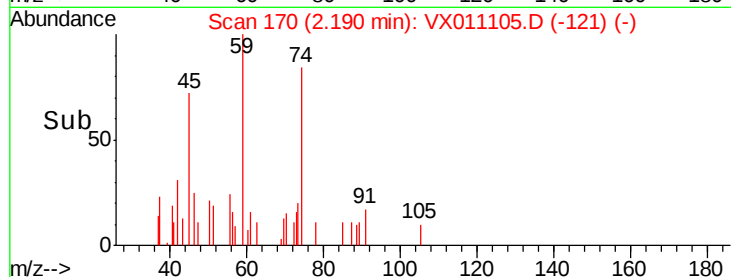
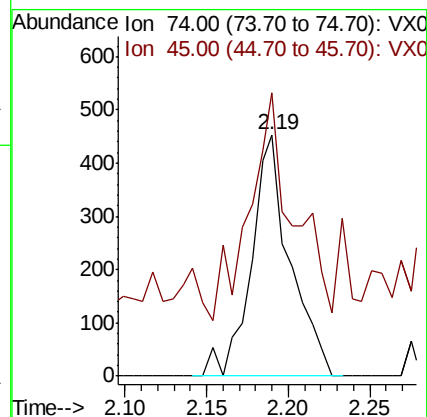
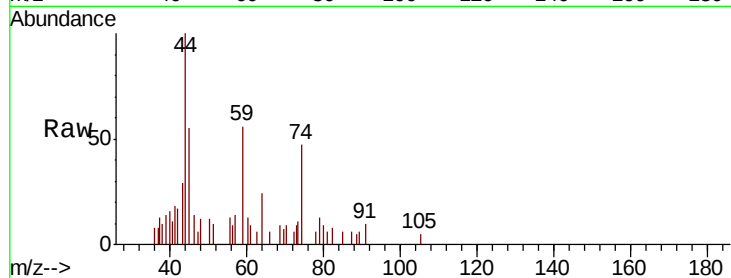
PB121723ZHE#11

Tot Ion: 74 Resp: 748

Ion Ratio Lower Upper

74 100

45 107.2 45.5 136.5



#11

Tert butyl alcohol

Concen: 1.314 ug/l

RT: 3.06 min Scan# 312

Delta R.T. 0.01 min

Lab File: VX011105.D

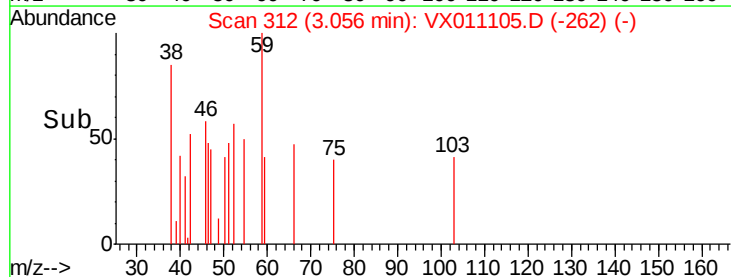
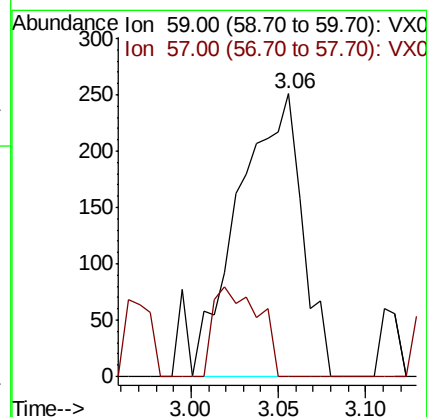
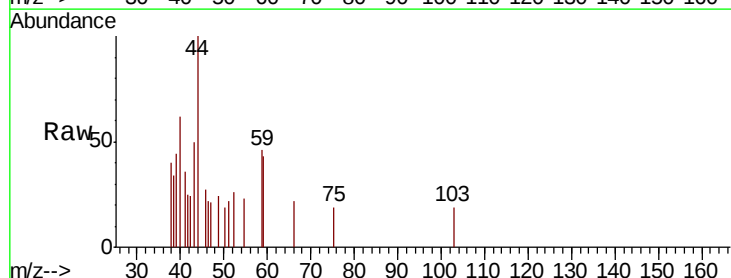
Acq: 26 Jul 2019 20:53

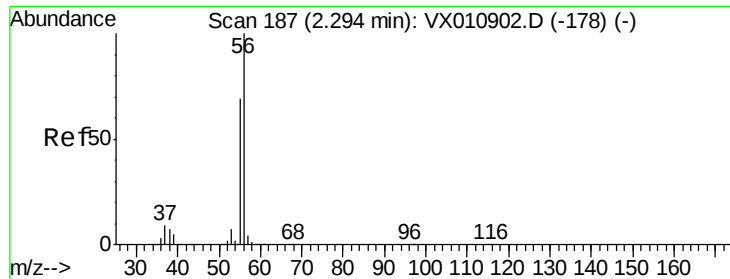
Tgt Ion: 59 Resp: 628

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#

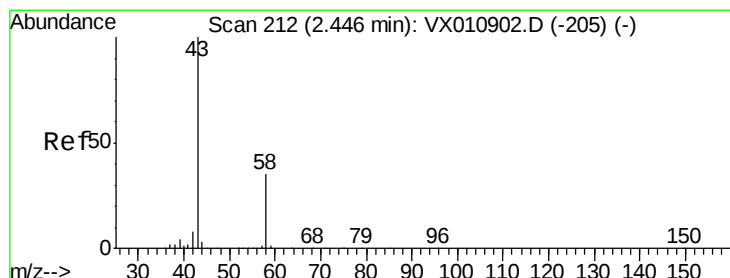
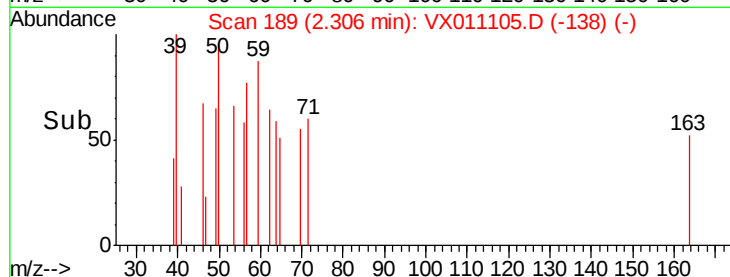
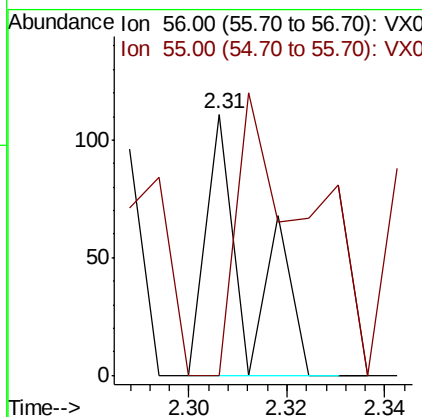
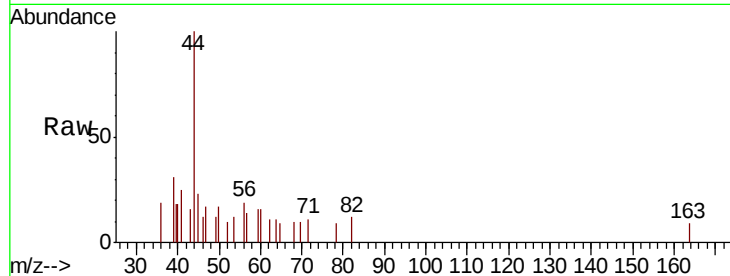




#13
Acrolein
Concen: 0.235 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

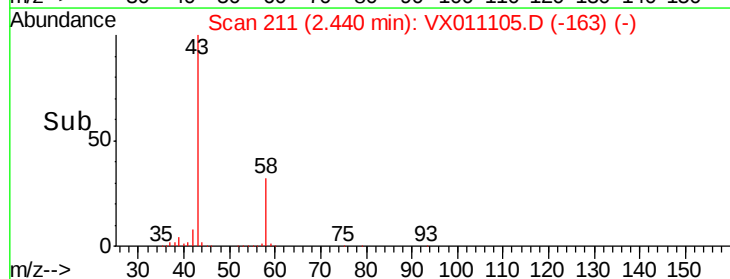
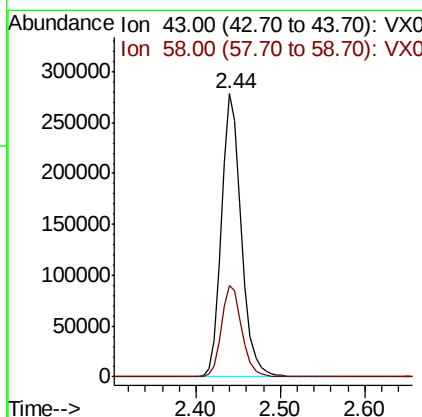
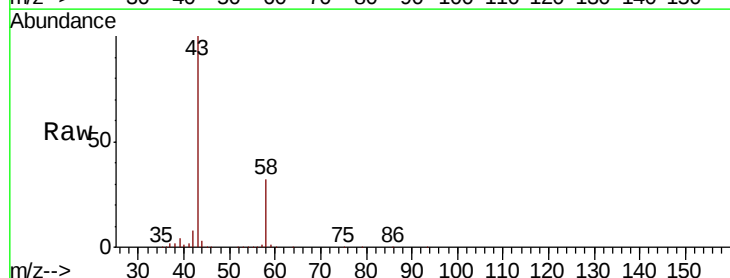
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#11

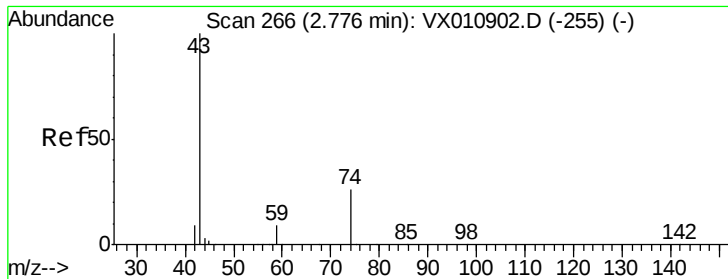
Tot Ion: 56 Resp: 65
Ion Ratio Lower Upper
56 100
55 187.7 55.9 83.9#



#16
Acetone
Concen: 489.589 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

Tgt Ion: 43 Resp: 453804
Ion Ratio Lower Upper
43 100
58 32.4 27.7 41.5

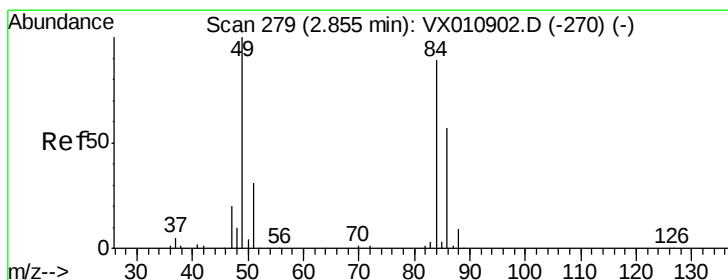
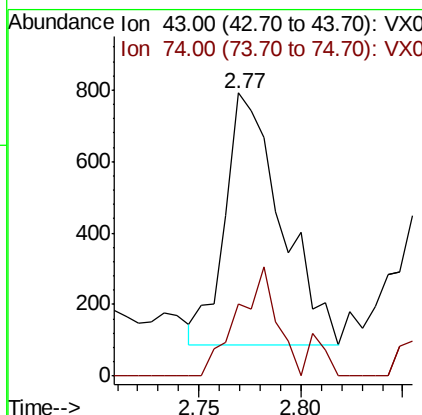
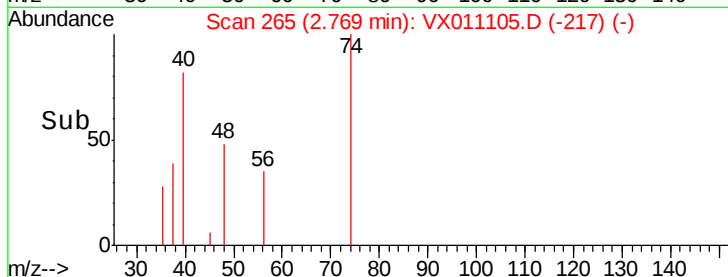
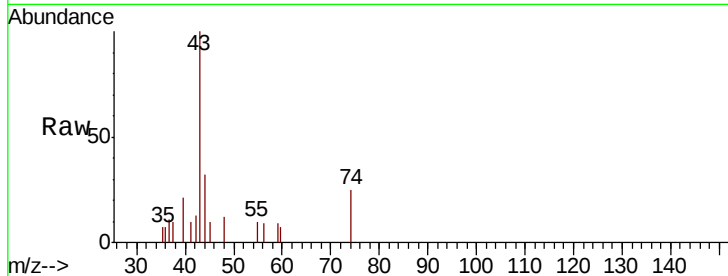




#18
Methyl Acetate
Concen: 0.640 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

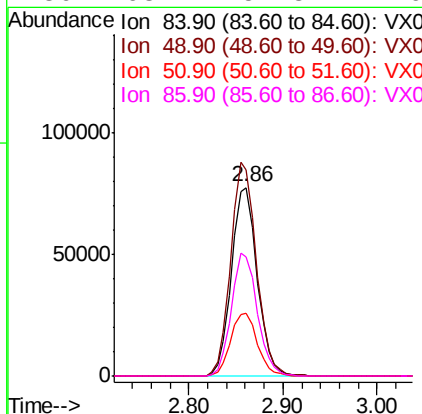
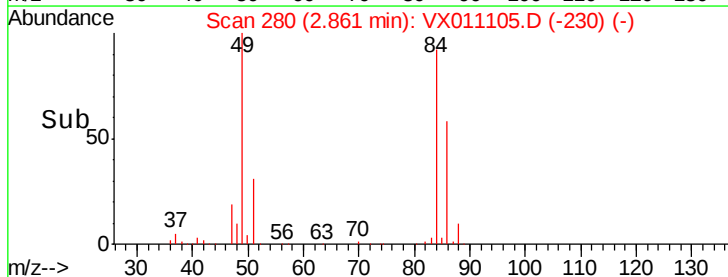
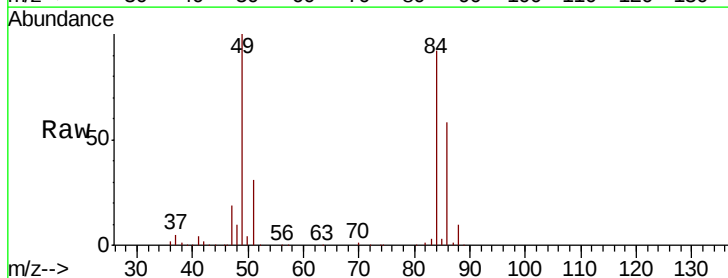
Instrument :
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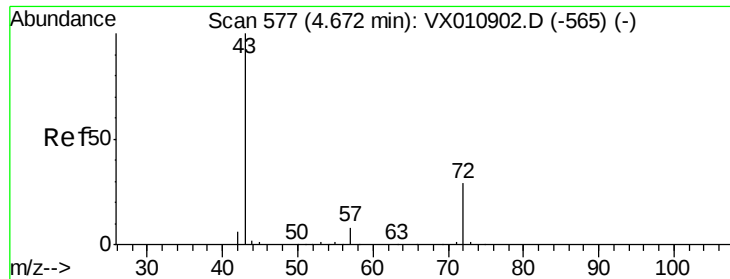
Tot Ion: 43 Resp: 1350
Ion Ratio Lower Upper
43 100
74 30.1 21.5 32.3



#20
Methylene Chloride
Concen: 75.451 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

Tgt Ion: 84 Resp: 148209
Ion Ratio Lower Upper
84 100
49 109.1 89.9 134.9
51 33.4 27.8 41.6
86 63.4 51.8 77.6

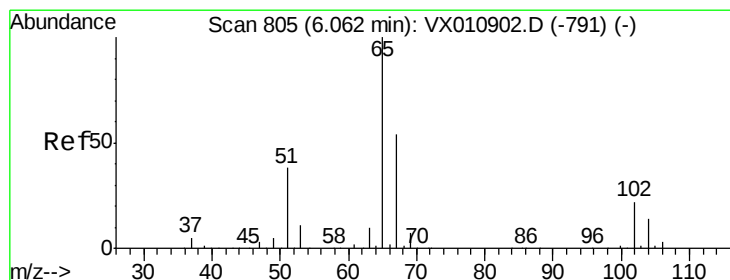
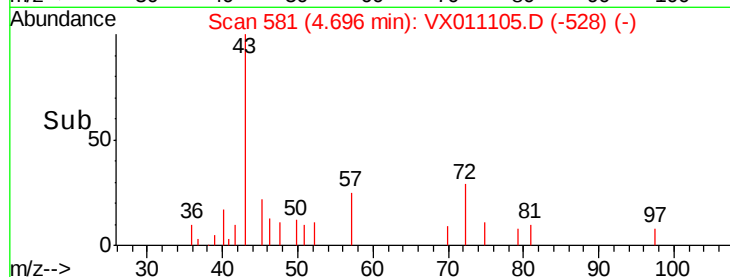
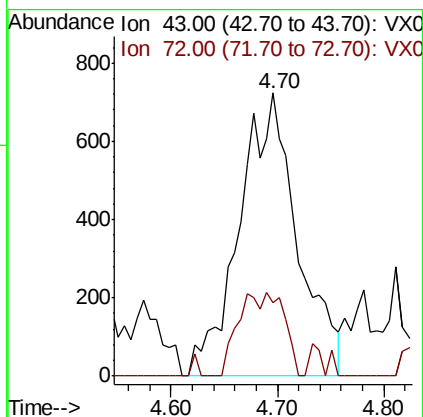
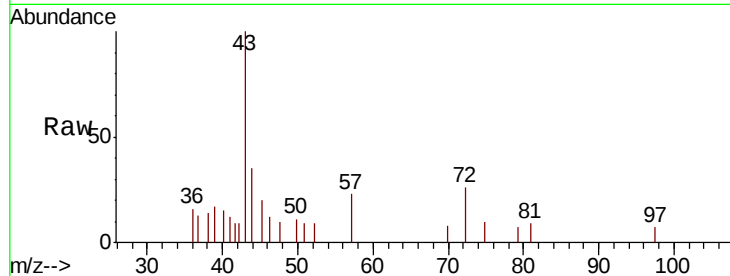




#25
2-Butanone
Concen: 2.077 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

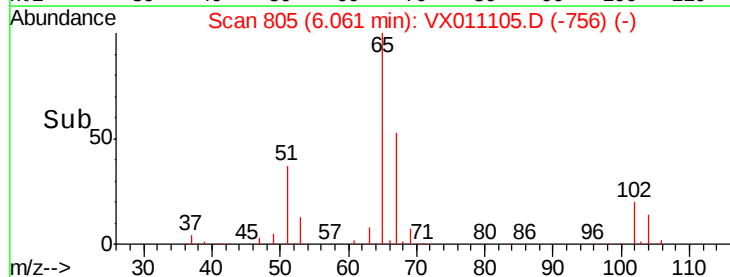
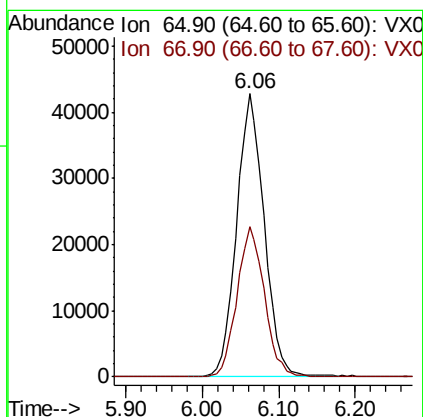
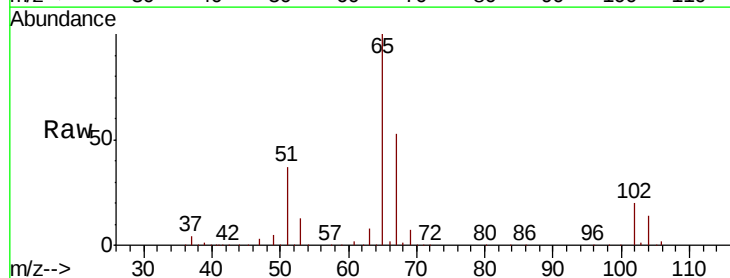
Instrument :
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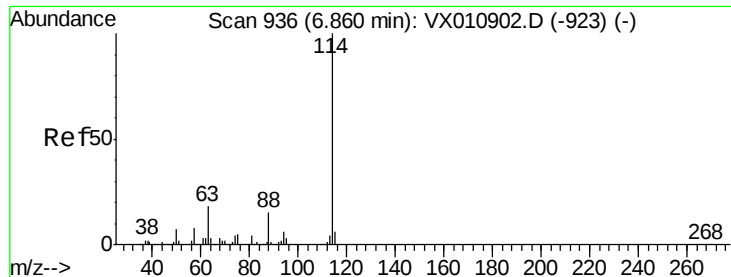
Tot Ion: 43 Resp: 2764
Ion Ratio Lower Upper
43 100
72 26.0 23.0 34.6



#33
1,2-Dichloroethane-d4
Concen: 52.186 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

Tgt Ion: 65 Resp: 107100
Ion Ratio Lower Upper
65 100
67 52.7 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#11

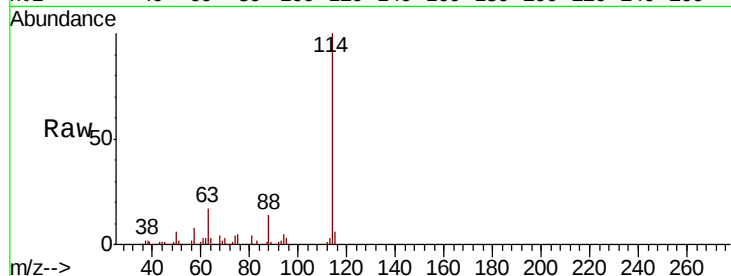
Tot Ion:114 Resp: 311115

Ion Ratio Lower Upper

114 100

63 17.4 0.0 35.6

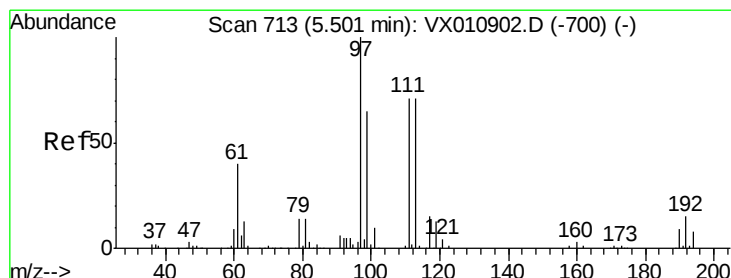
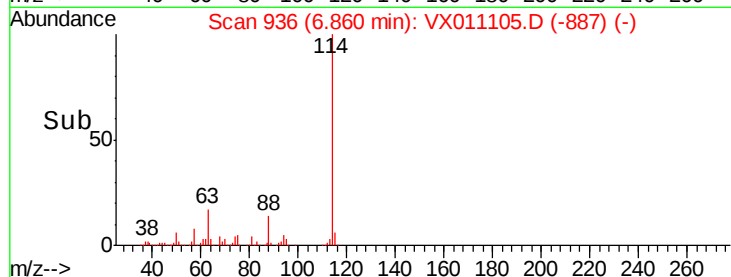
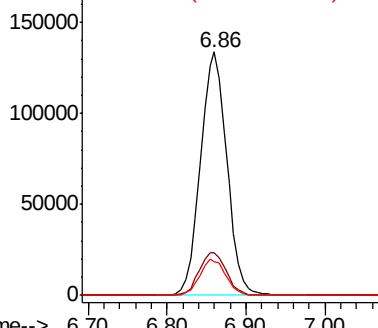
88 13.9 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.361 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

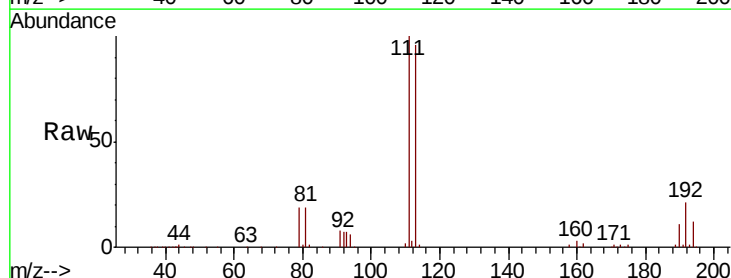
Tgt Ion:113 Resp: 97473

Ion Ratio Lower Upper

113 100

111 102.6 82.3 123.5

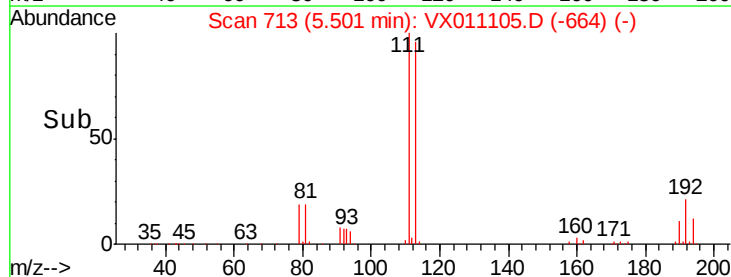
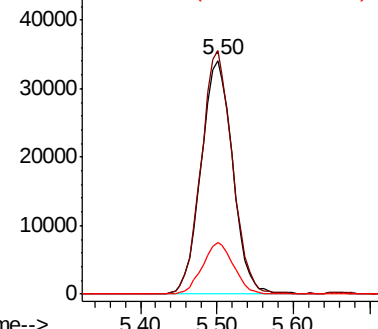
192 22.0 17.4 26.2

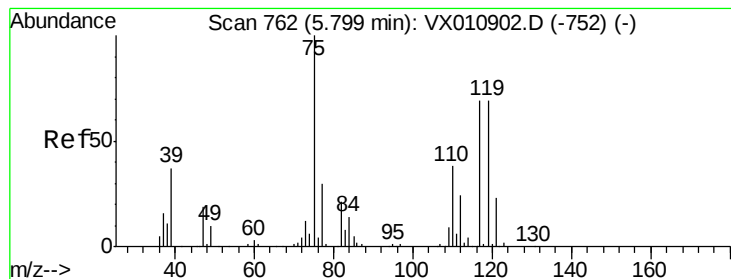


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.957 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#11

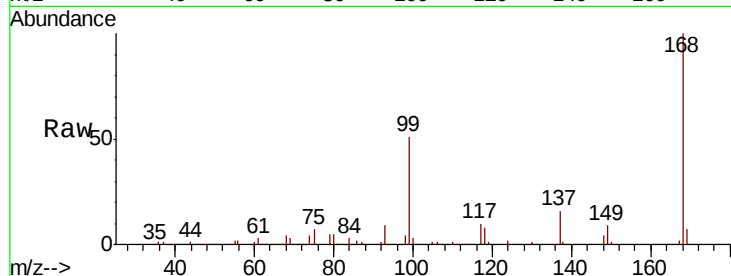
Tot Ion: 75 Resp: 12667

Ion Ratio Lower Upper

75 100

110 12.2 19.9 59.7#

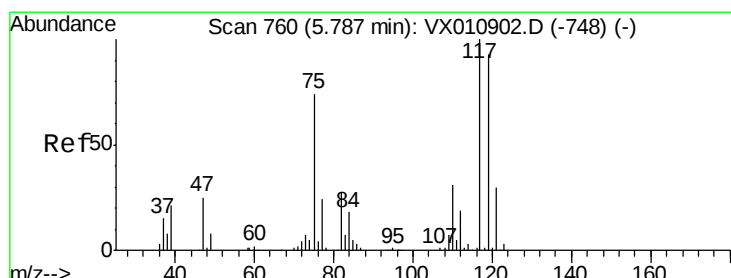
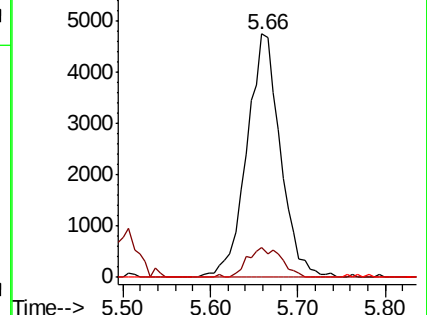
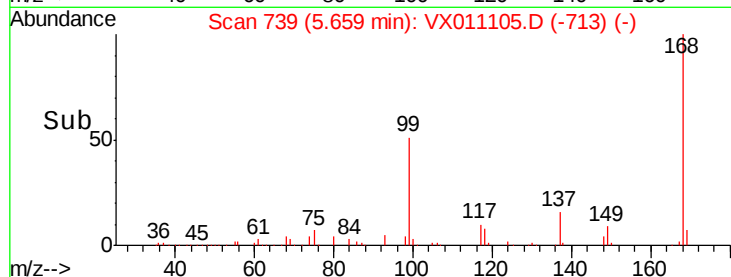
77 0.0 25.0 37.4#



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: 6.917 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

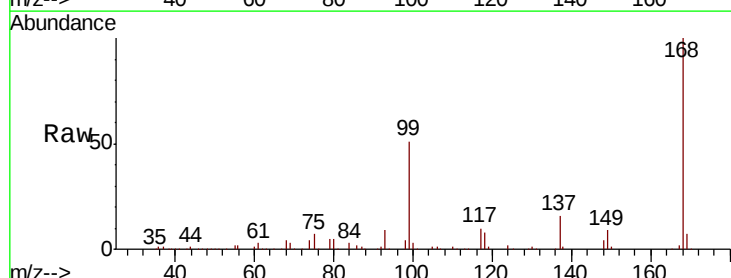
Tgt Ion: 117 Resp: 18421

Ion Ratio Lower Upper

117 100

119 6.9 74.2 111.2#

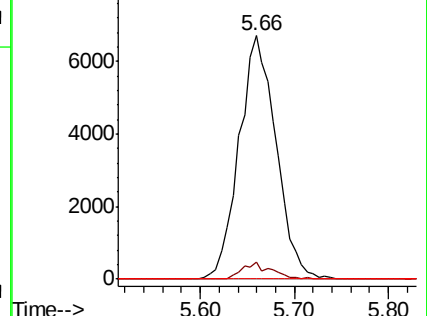
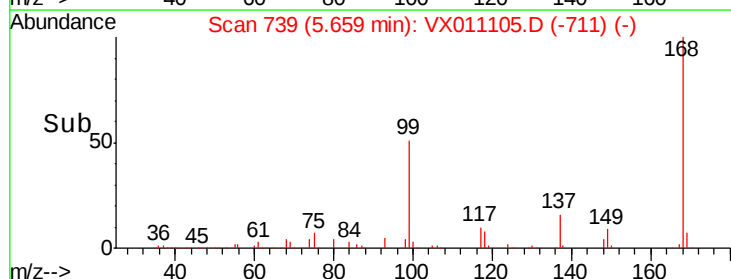
121 0.0 24.2 36.2#

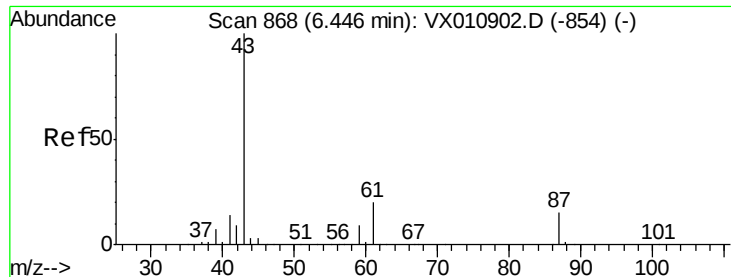


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.702 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#11

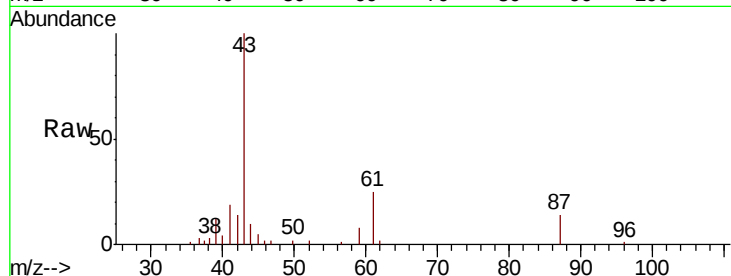
Tot Ion: 43 Resp: 11624

Ion Ratio Lower Upper

43 100

61 22.8 17.1 25.7

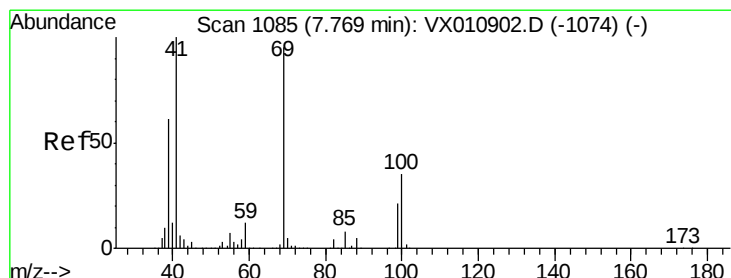
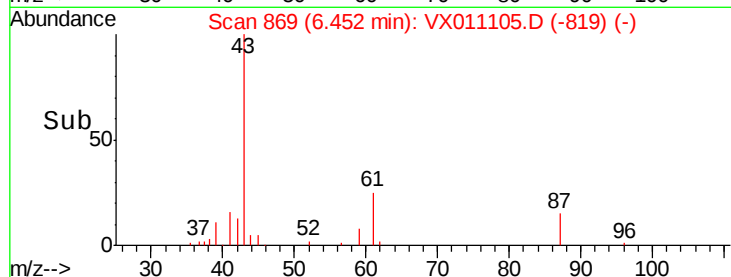
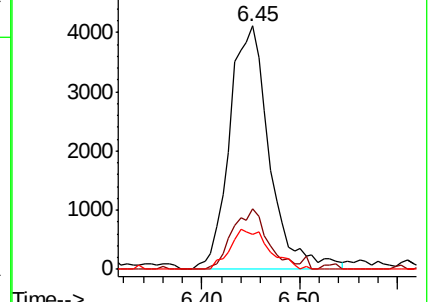
87 16.1 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 35.748 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.10 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

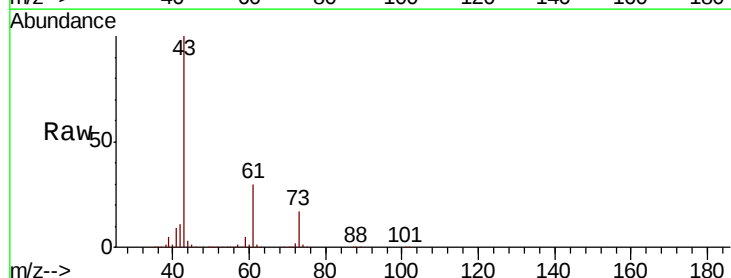
Tgt Ion: 41 Resp: 74932

Ion Ratio Lower Upper

41 100

69 0.2 74.4 111.6#

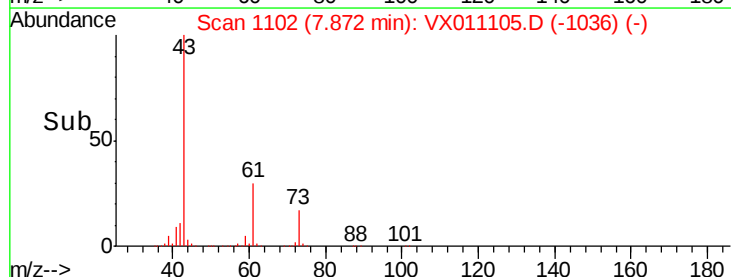
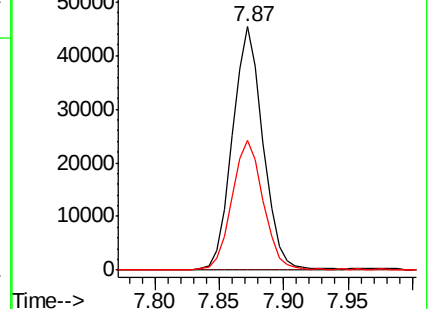
39 54.2 48.9 73.3

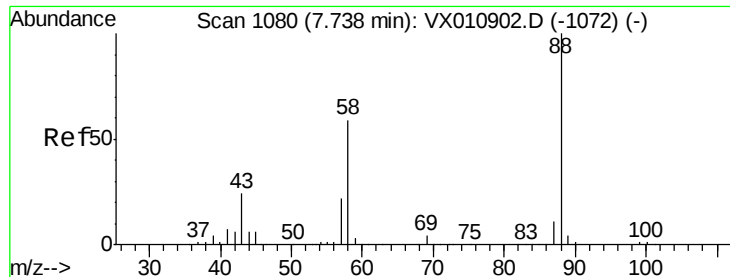


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

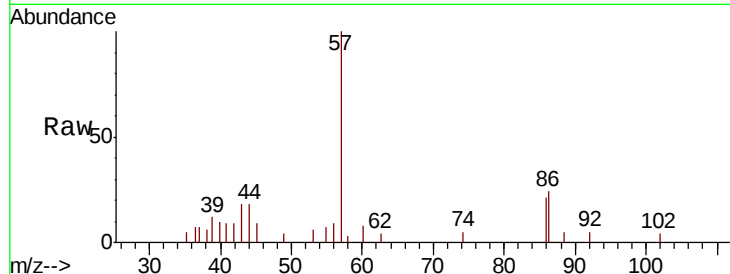




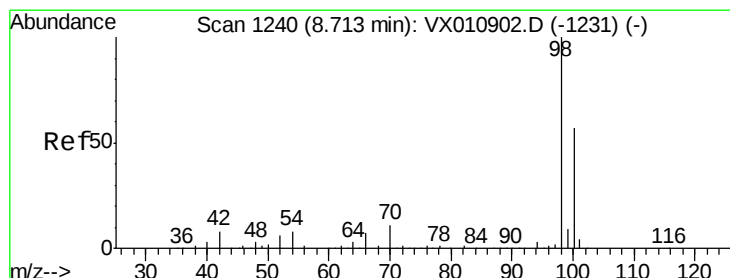
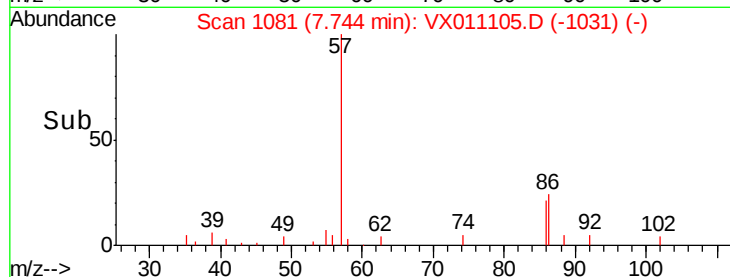
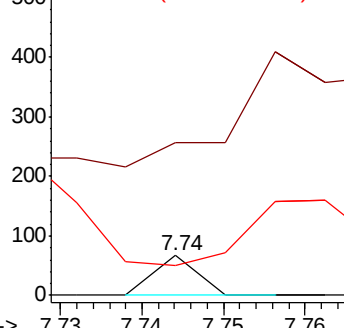
#49
1,4-Dioxane
Concen: 0.426 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#11

Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 49.8 74.8#

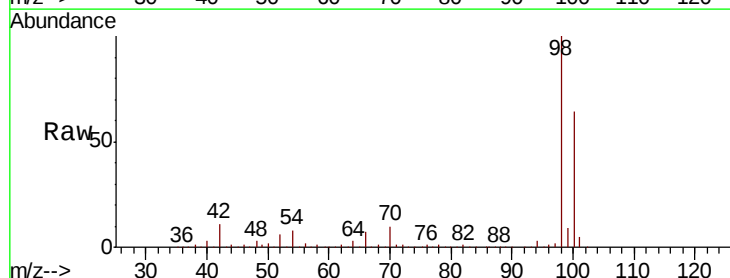


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

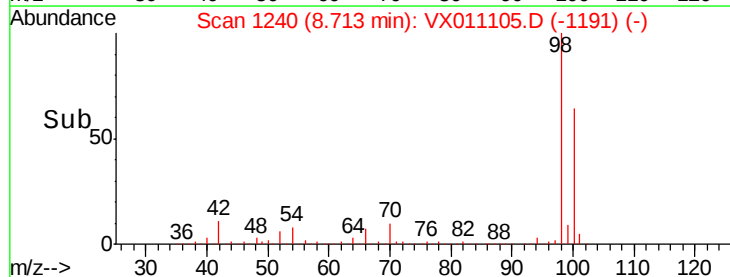
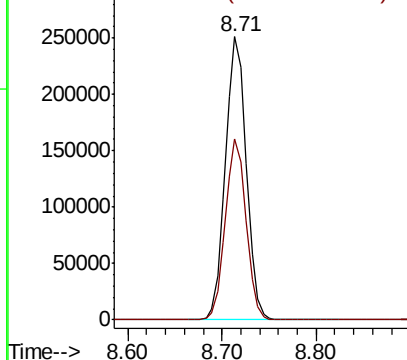


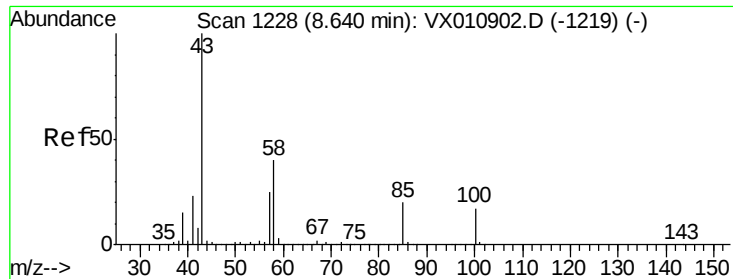
#50
Toluene-d8
Concen: 52.186 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

Tgt Ion: 98 Resp: 386510
Ion Ratio Lower Upper
98 100
100 63.4 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

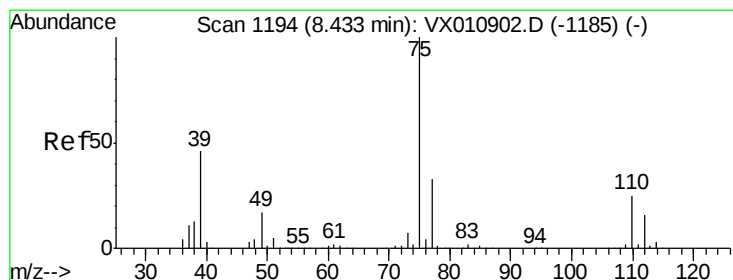
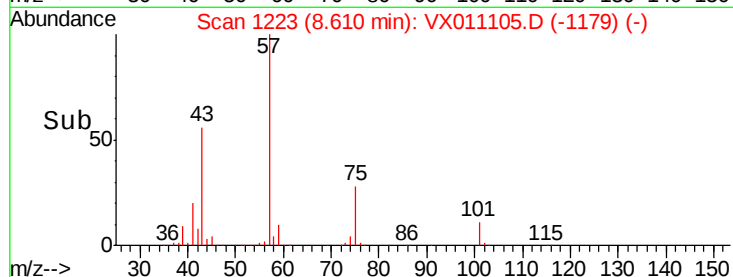
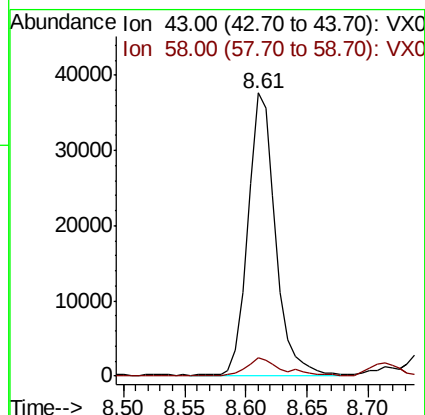
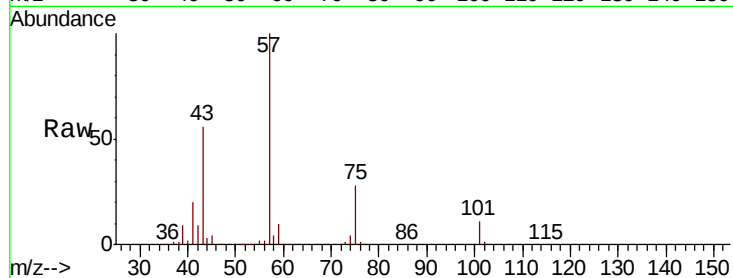




#51
 4-Methyl-2-Pentanone
 Concen: 21.012 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011105.D
 Acq: 26 Jul 2019 20:53

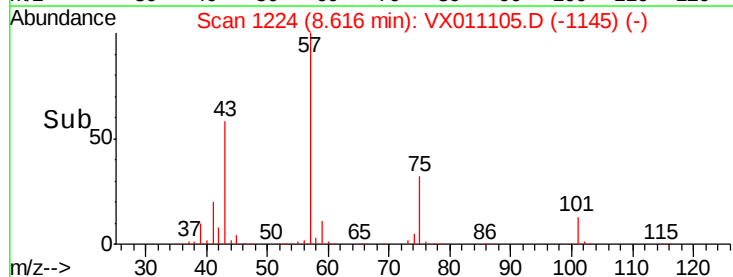
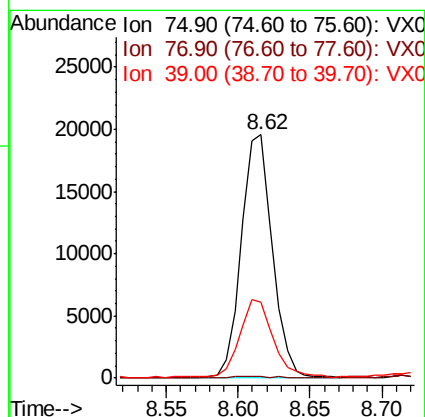
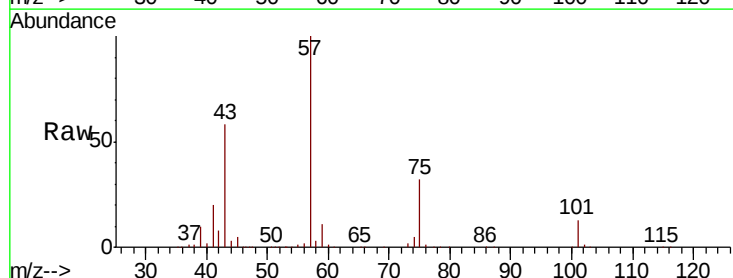
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#11

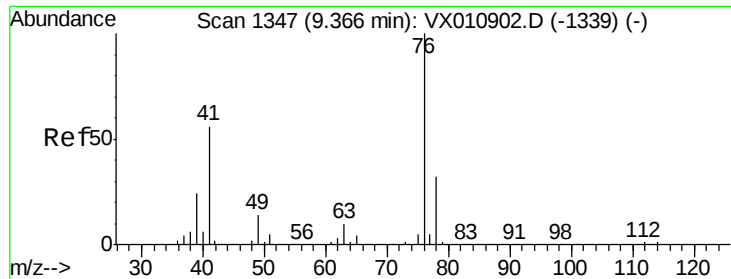
Tot Ion: 43 Resp: 58608
 Ion Ratio Lower Upper
 43 100
 58 8.3 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 9.674 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX011105.D
 Acq: 26 Jul 2019 20:53

Tgt Ion: 75 Resp: 29335
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.1 39.1#
 39 30.6 36.6 54.8#

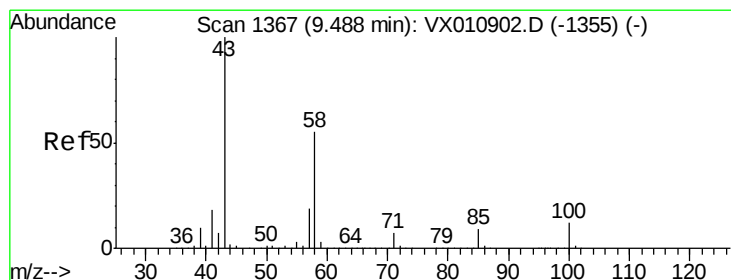
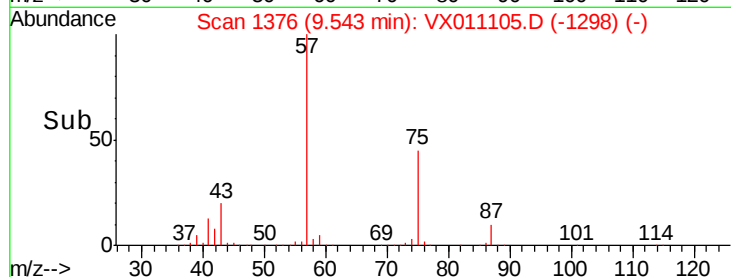
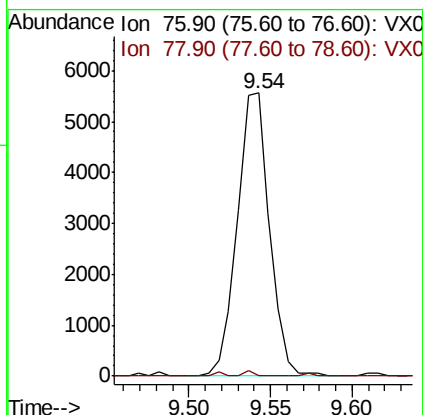
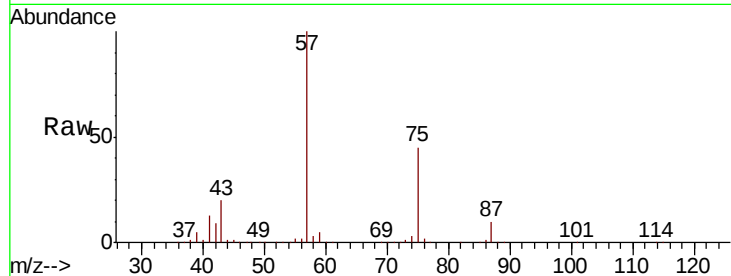




#57
 1,3-Dichloropropane
 Concen: 2.283 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011105.D
 Acq: 26 Jul 2019 20:53

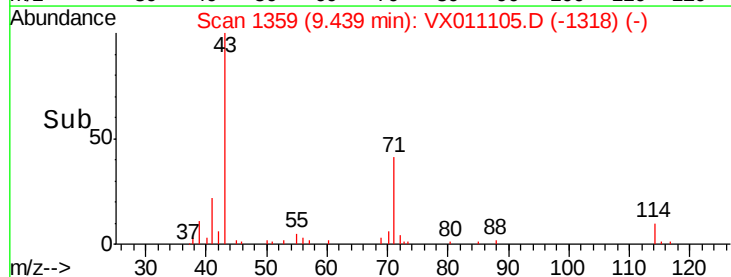
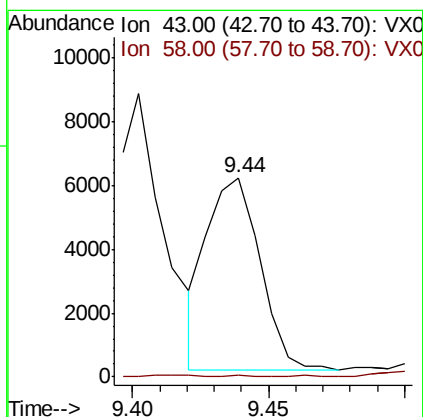
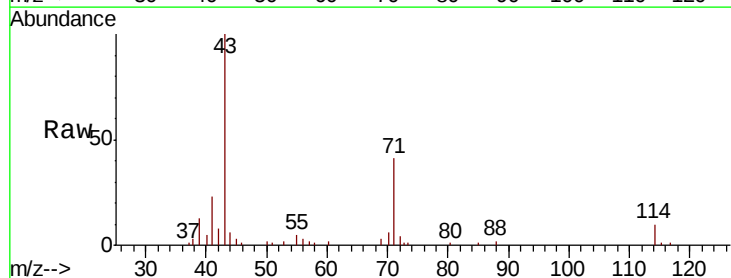
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#11

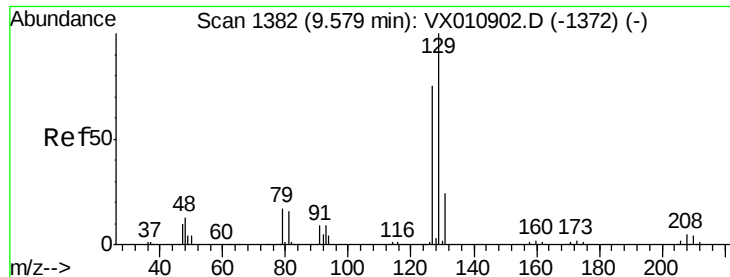
Tot Ion: 76 Resp: 7667
 Ion Ratio Lower Upper
 76 100
 78 0.5 25.6 38.4#



#59
 2-Hexanone
 Concen: 3.770 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX011105.D
 Acq: 26 Jul 2019 20:53

Tgt Ion: 43 Resp: 8155
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.0 83.9#





#60

Dibromochloromethane

Concen: 2.538 ug/l

RT: 9.82 min Scan# 1422

Delta R.T. 0.24 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

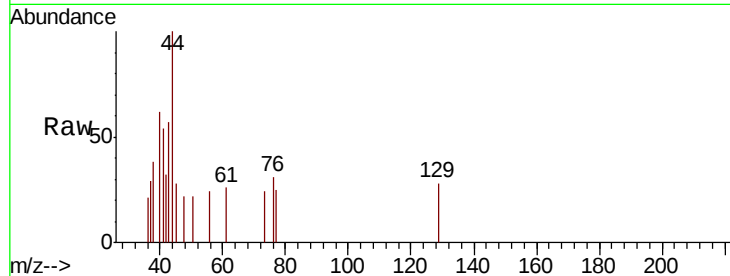
PB121723ZHE#11

Tot Ion:129 Resp: 27

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.82

80

60

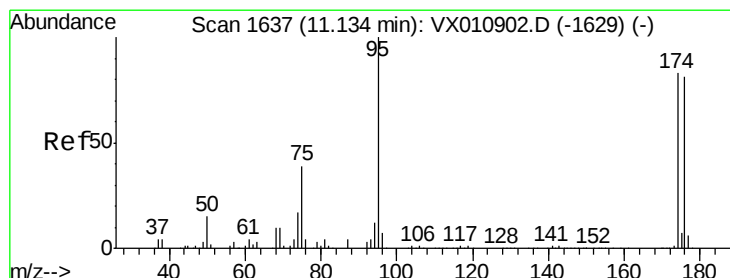
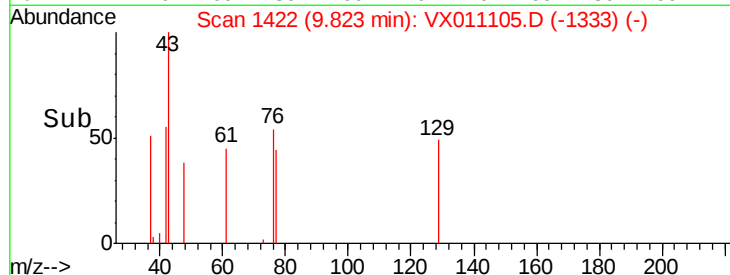
40

20

0

9.80 9.81 9.82 9.83 9.84

Time-->



#62

4-Bromofluorobenzene

Concen: 49.071 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

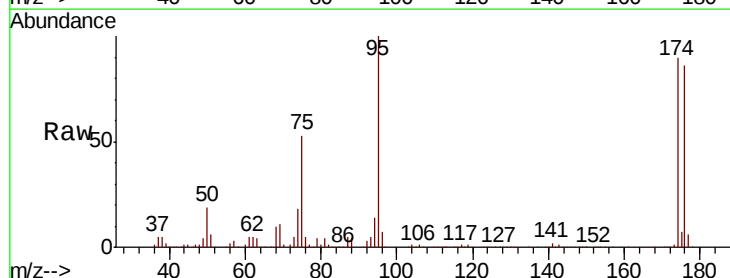
Tgt Ion: 95 Resp: 133589

Ion Ratio Lower Upper

95 100

174 91.3 0.0 180.6

176 87.6 0.0 173.8



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

11.13

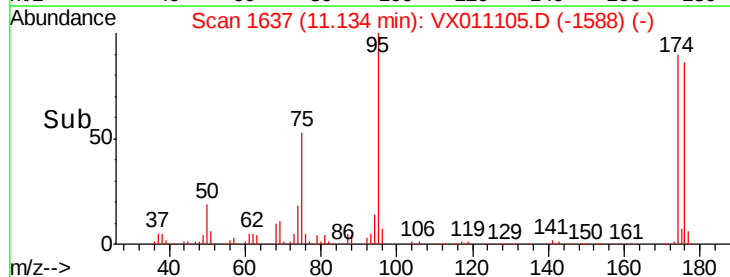
100000

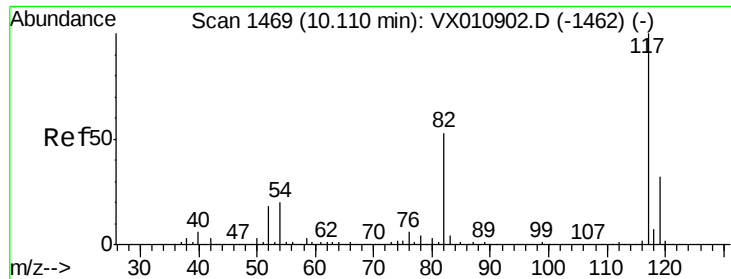
50000

0

11.10 11.20

Time-->

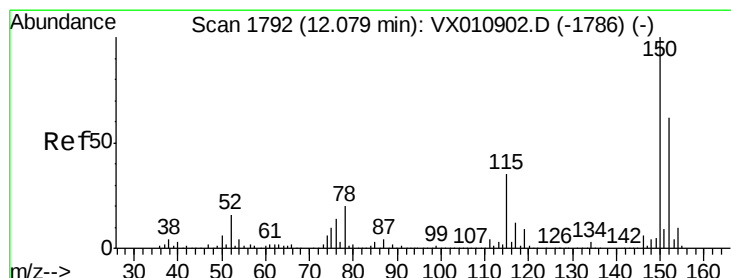
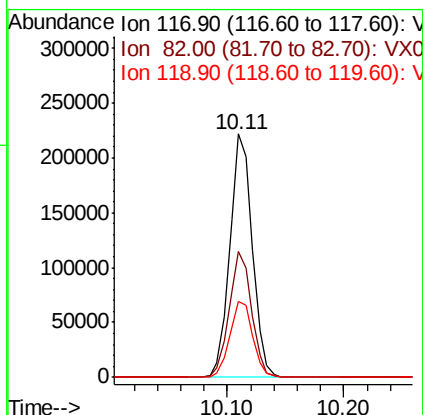
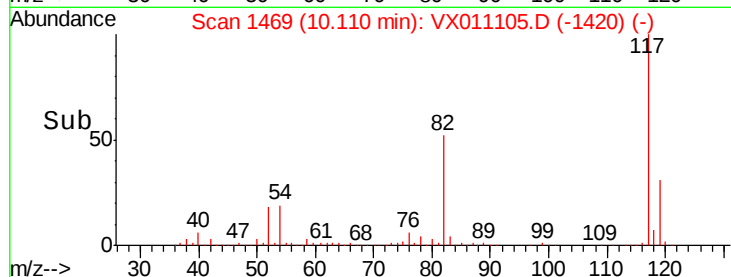
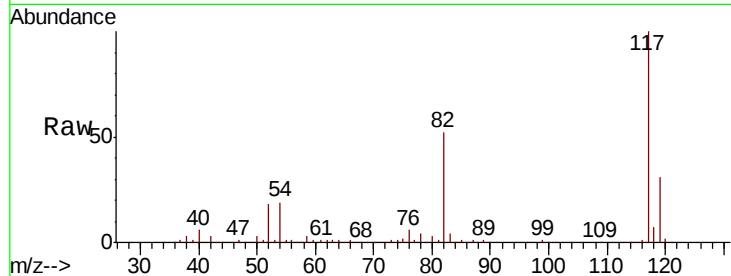




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

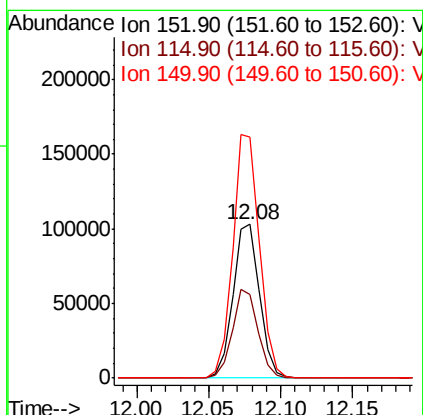
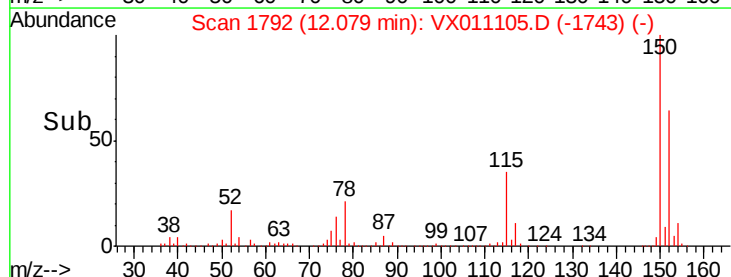
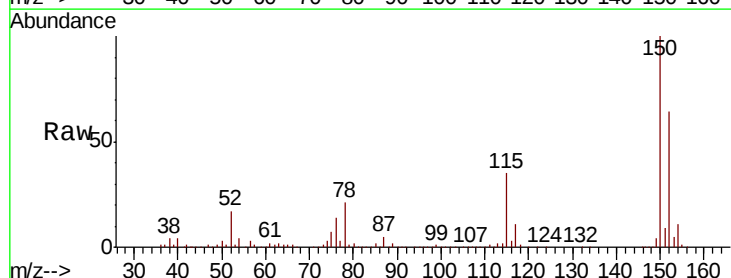
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#11

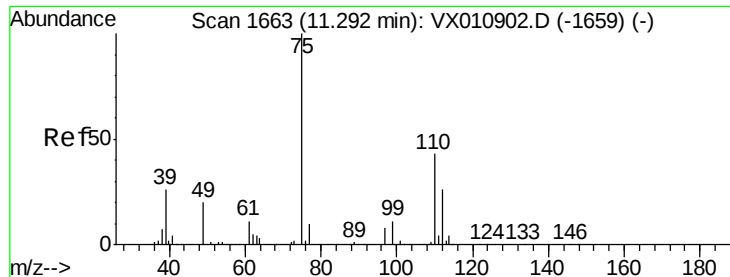
Tot Ion:117 Resp: 297320
Ion Ratio Lower Upper
117 100
82 51.6 42.6 63.8
119 31.3 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011105.D
Acq: 26 Jul 2019 20:53

Tgt Ion:152 Resp: 132910
Ion Ratio Lower Upper
152 100
115 56.1 39.7 119.1
150 159.4 0.0 345.6

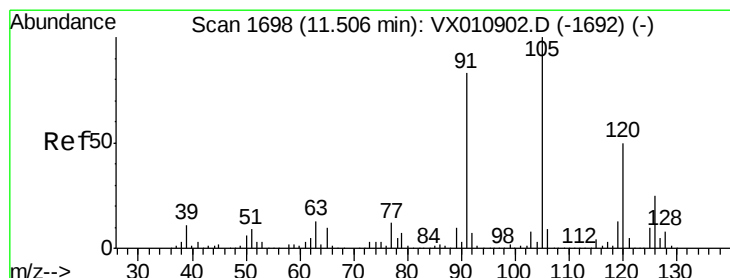
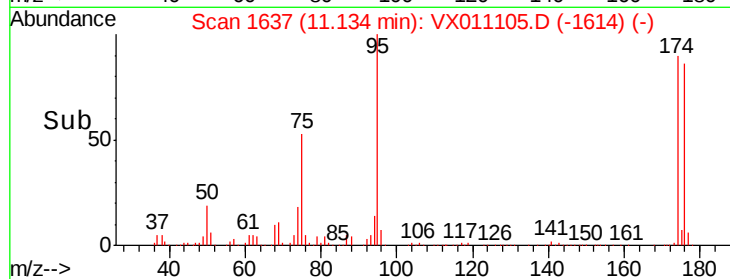
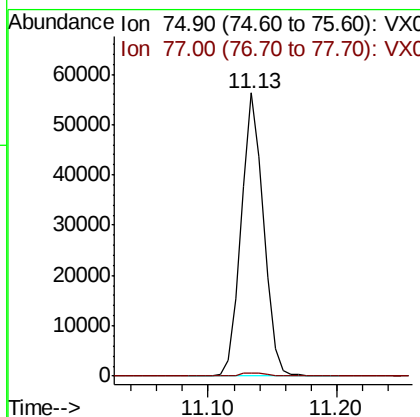
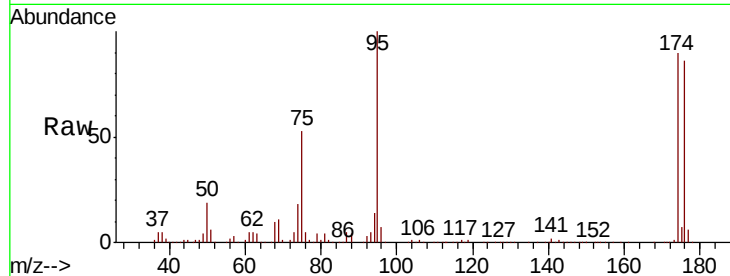




#76
 1,2,3-Trichloropropane
 Concen: 28.078 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011105.D
 Acq: 26 Jul 2019 20:53

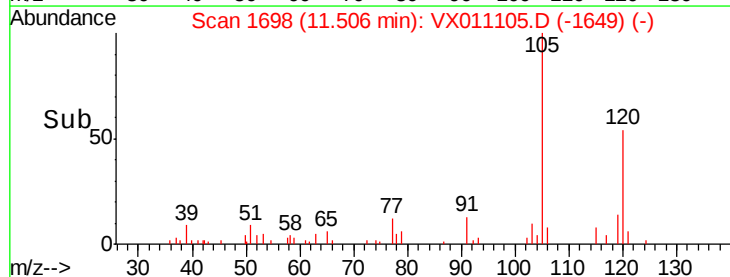
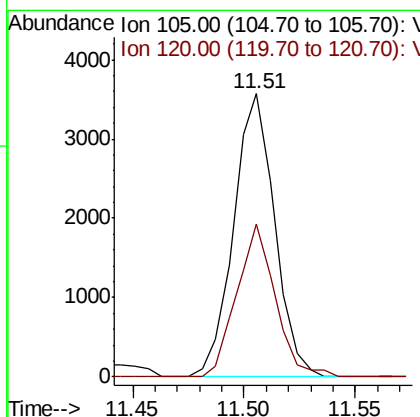
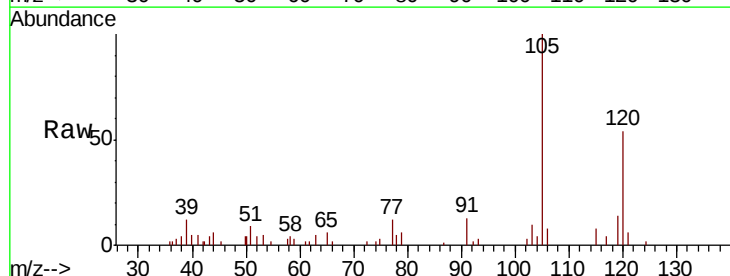
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#11

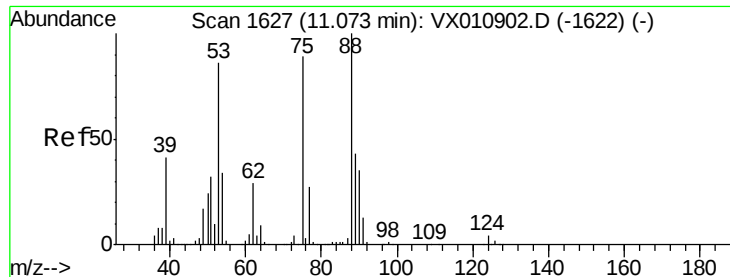
Tot Ion: 75 Resp: 67344
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.3 64.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.610 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX011105.D
 Acq: 26 Jul 2019 20:53

Tgt Ion: 105 Resp: 4577
 Ion Ratio Lower Upper
 105 100
 120 50.8 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 69.456 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011105.D

Acq: 26 Jul 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#11

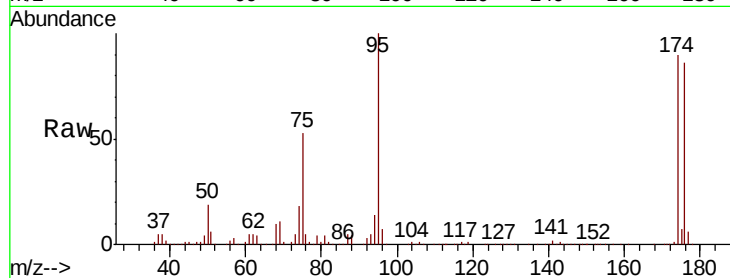
Tot Ion: 75 Resp: 67344

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 38.5 57.7#



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

