

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX113020\
 Data File : VX019682.D
 Acq On : 30 Nov 2020 15:57
 Operator : JC/MD
 Sample : L4903-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1-2-COMP

Quant Time: Dec 01 02:42:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	281862	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	470077	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	405809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	161591	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	180228	49.32	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.64%
35) Dibromofluoromethane	5.46	113	146039	49.49	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	98.98%
50) Toluene-d8	8.70	98	561384	48.96	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.92%
62) 4-Bromofluorobenzene	11.12	95	185555	44.98	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.96%

Target Compounds

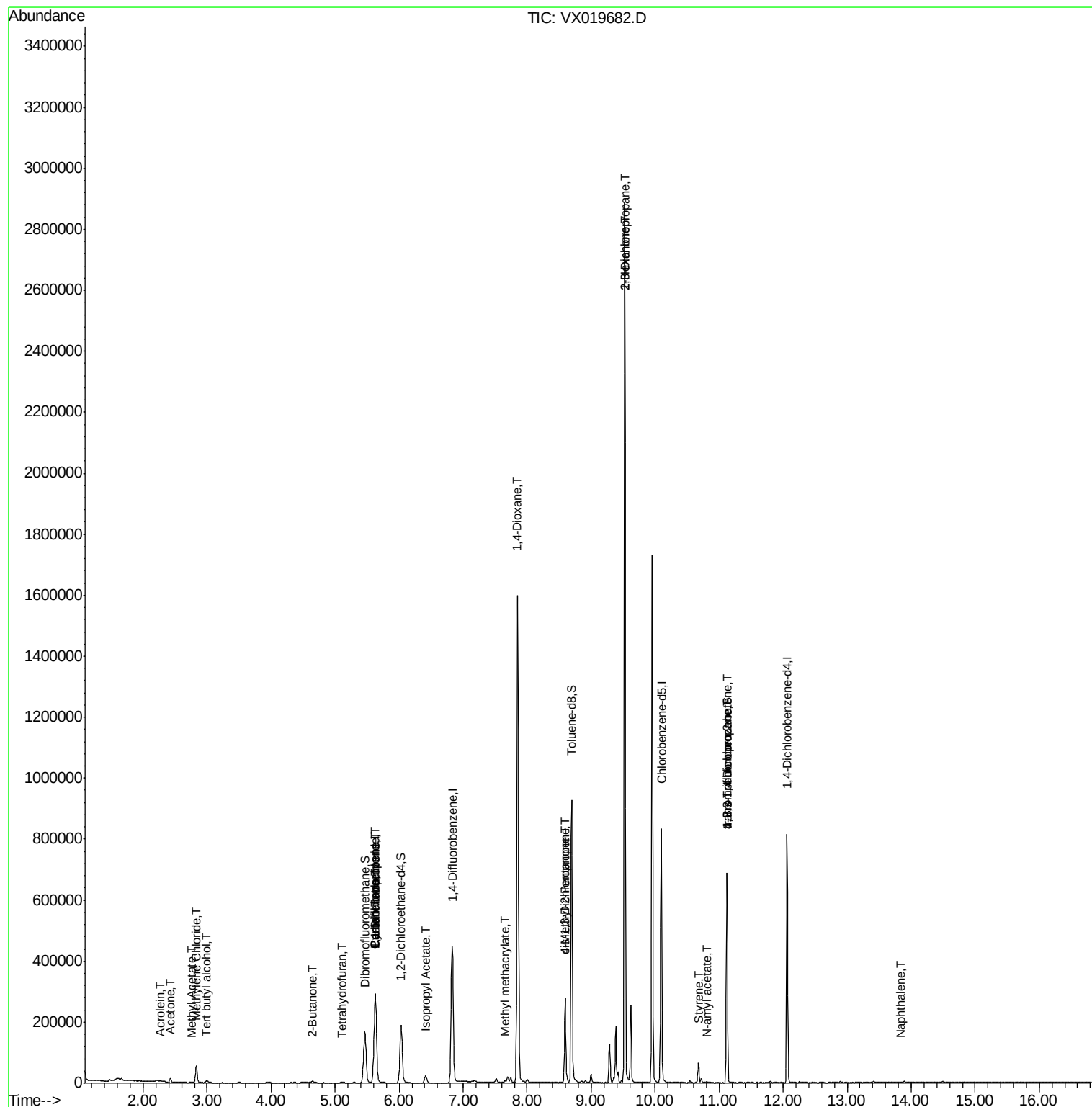
					Qvalue
6) Chloroethane	1.67	64	525	Below Cal	98
11) Tert butyl alcohol	3.00	59	5644	8.160 ug/l #	75
13) Acrolein	2.26	56	184	0.396 ug/l #	53
16) Acetone	2.43	43	14048	9.940 ug/l	99
18) Methyl Acetate	2.75	43	2391	1.316 ug/l	99
20) Methylene Chloride	2.83	84	27588	7.810 ug/l	97
25) 2-Butanone	4.65	43	8424	3.968 ug/l	98
29) Tetrahydrofuran	5.11	42	1945	1.436 ug/l #	83
31) Cyclohexane	5.62	56	5484	1.154 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	21829	4.953 ug/l #	49
38) Carbon Tetrachloride	5.64	117	27703	6.494 ug/l #	16
43) Isopropyl Acetate	6.42	43	31636	4.549 ug/l	99
48) Methyl methacrylate	7.65	41	7732	2.374 ug/l #	9
49) 1,4-Dioxane	7.85	88	227	3.070 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	91422	22.543 ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	48842	9.205 ug/l #	59
57) 1,3-Dichloropropane	9.52	76	25703	4.551 ug/l #	44
59) 2-Hexanone	9.52	43	298731	97.124 ug/l #	48
70) Styrene	10.69	104	74	1.653 ug/l #	75
74) N-amyl acetate	10.81	43	2054	0.490 ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	89339	25.334 ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	89339	66.865 ug/l #	12
95) Naphthalene	13.82	128	301	2.202 ug/l #	69

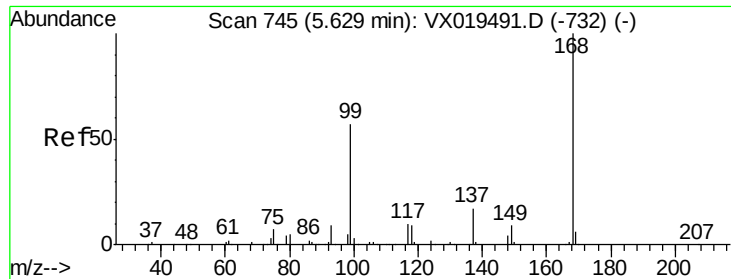
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

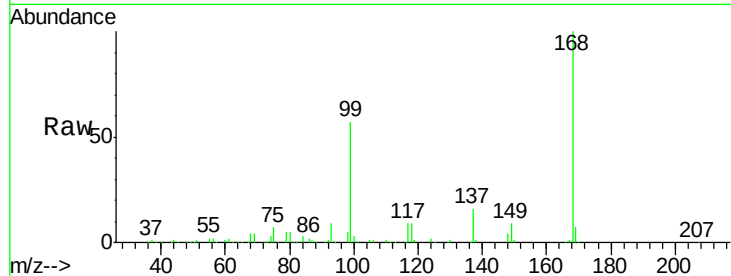
TP-1-2-COMP

Tot Ion:168 Resp: 281862

Ion Ratio Lower Upper

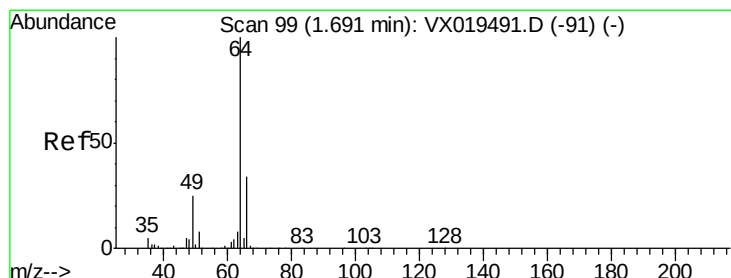
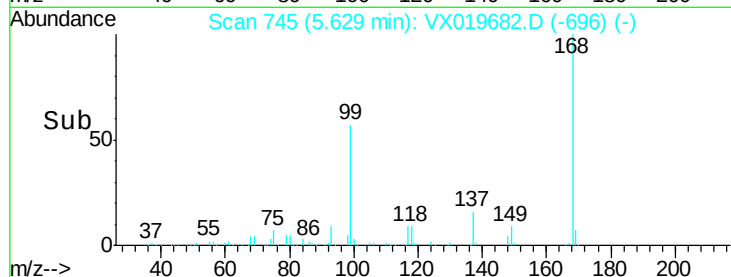
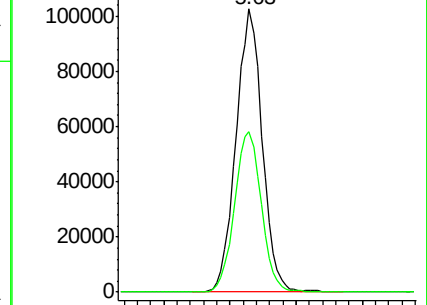
168 100

99 56.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX019682.D

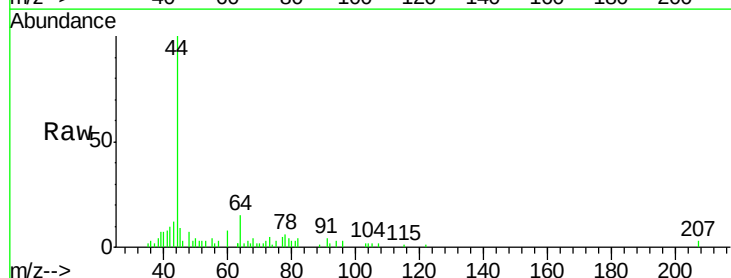
Acq: 30 Nov 2020 15:57

Tgt Ion: 64 Resp: 525

Ion Ratio Lower Upper

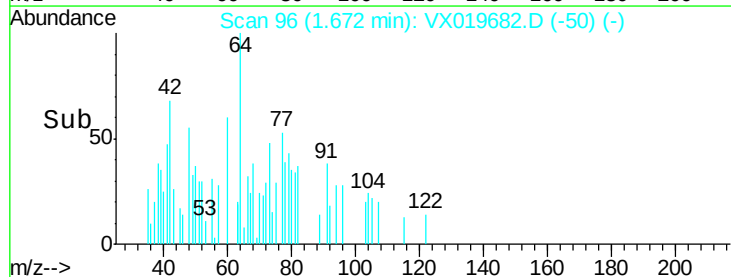
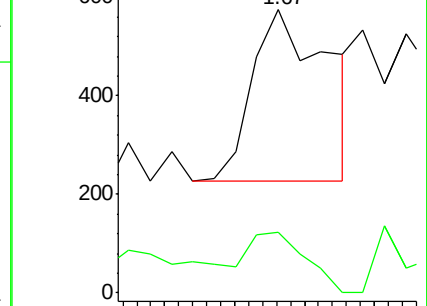
64 100

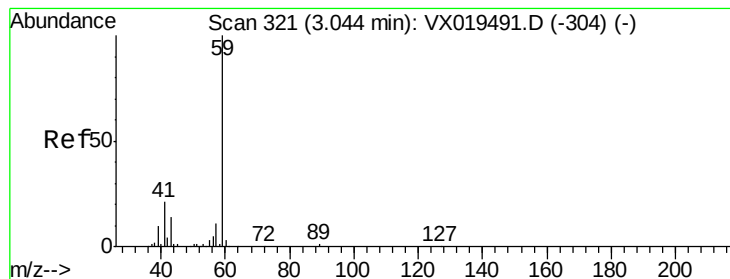
66 35.1 27.1 40.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#11

Tert butyl alcohol

Concen: 8.160 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

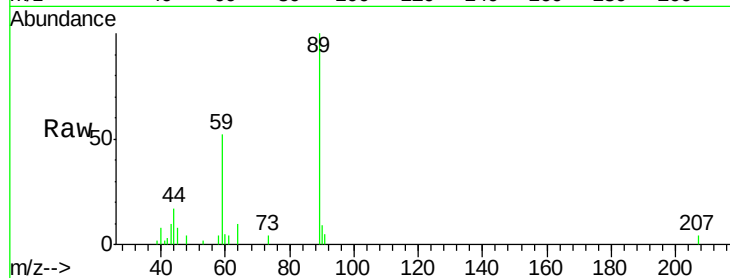
TP-1-2-COMP

Tot Ion: 59 Resp: 5644

Ion Ratio Lower Upper

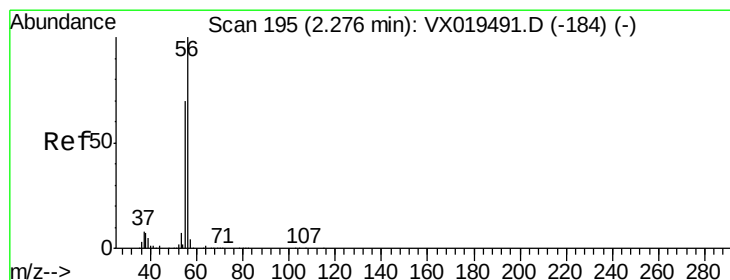
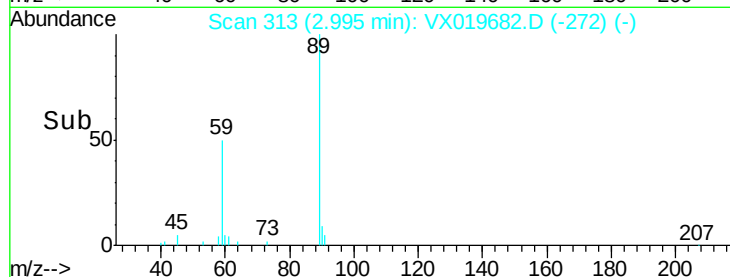
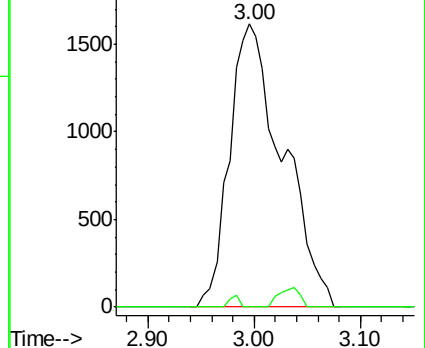
59 100

57 0.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.396 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX019682.D

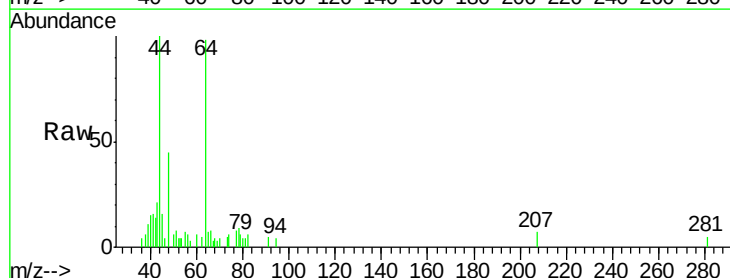
Acq: 30 Nov 2020 15:57

Tgt Ion: 56 Resp: 184

Ion Ratio Lower Upper

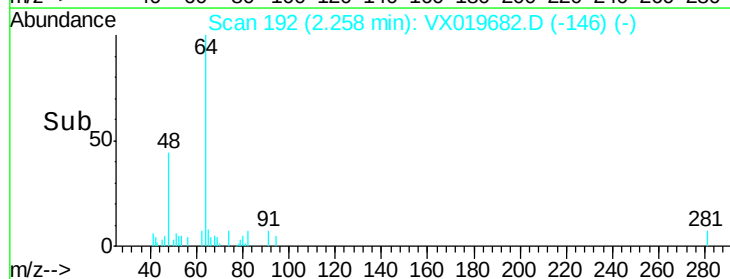
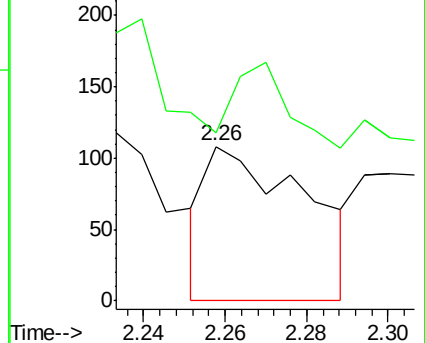
56 100

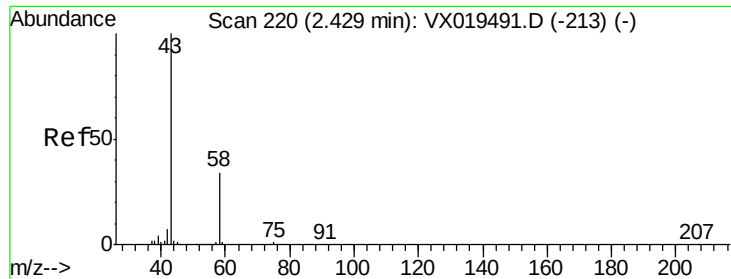
55 31.0 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 9.940 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

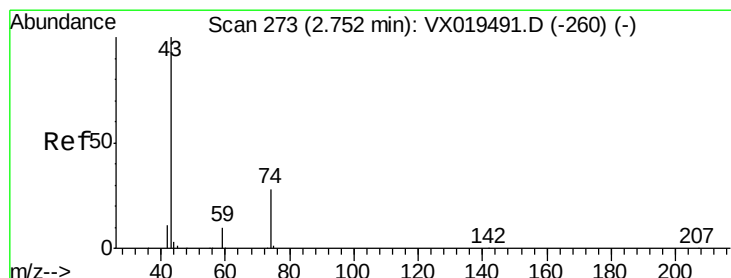
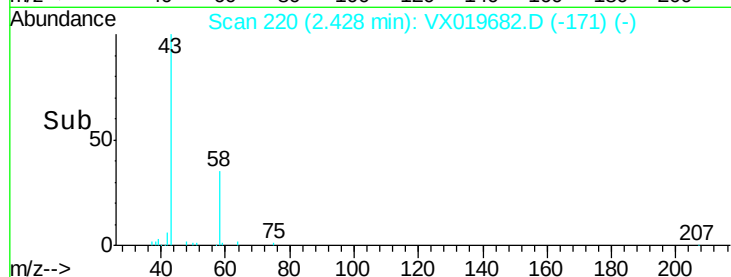
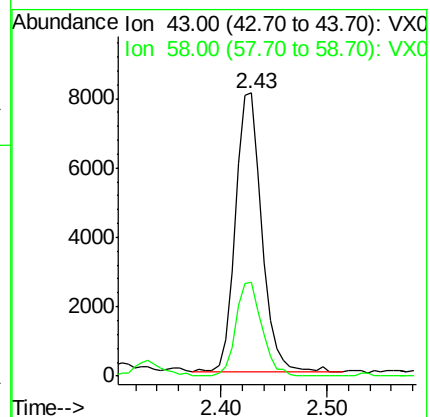
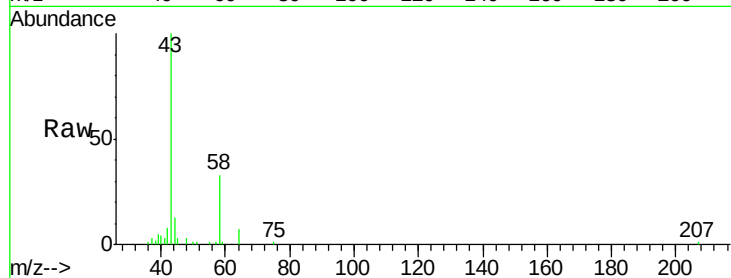
TP-1-2-COMP

Tot Ion: 43 Resp: 14048

Ion Ratio Lower Upper

43 100

58 33.8 27.4 41.2



#18

Methyl Acetate

Concen: 1.316 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019682.D

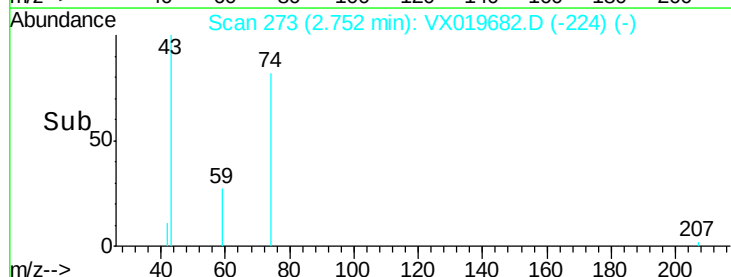
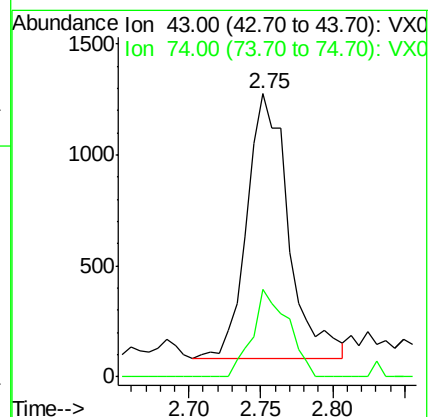
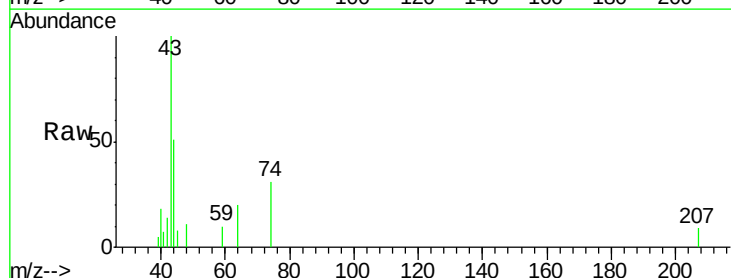
Acq: 30 Nov 2020 15:57

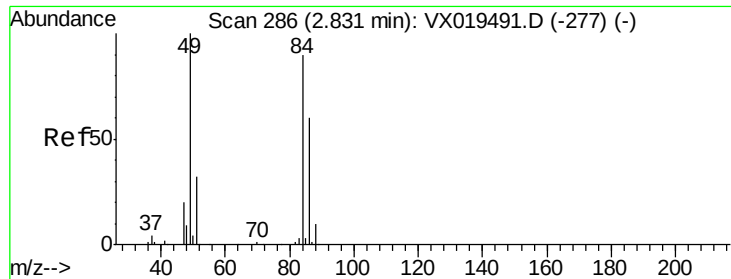
Tgt Ion: 43 Resp: 2391

Ion Ratio Lower Upper

43 100

74 28.4 22.2 33.4

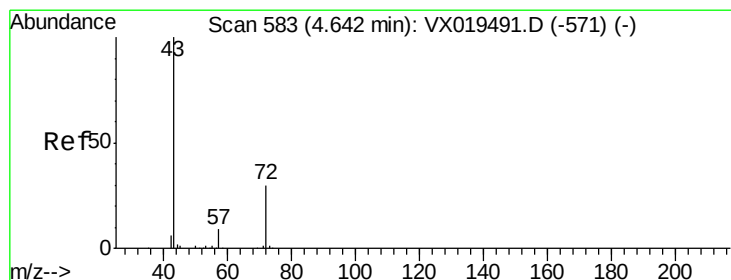
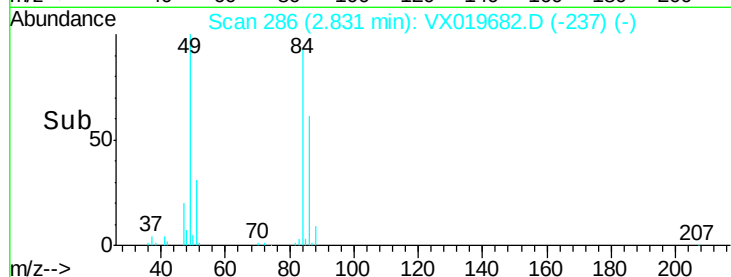
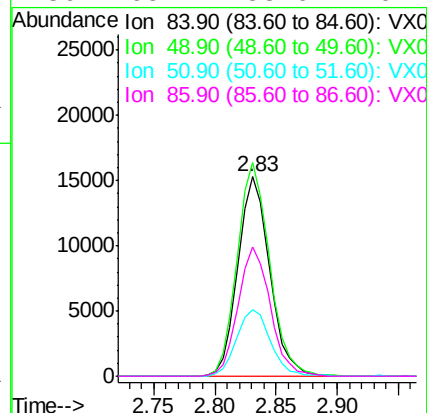
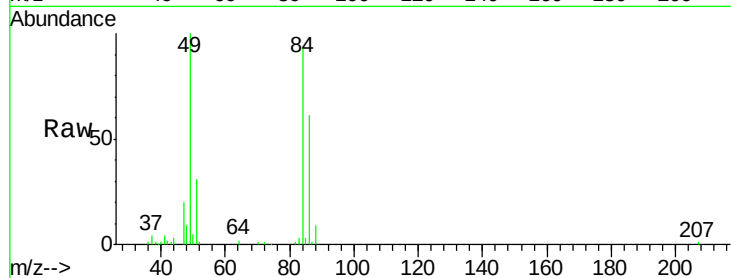




#20
Methvlene Chloride
Concen: 7.810 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

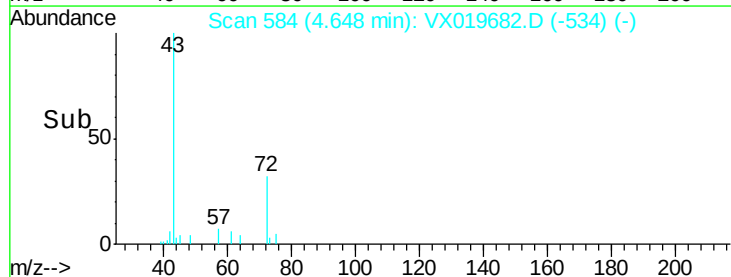
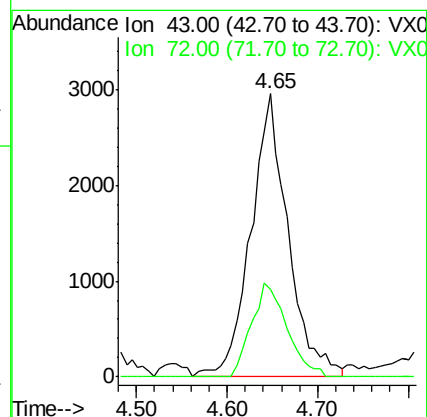
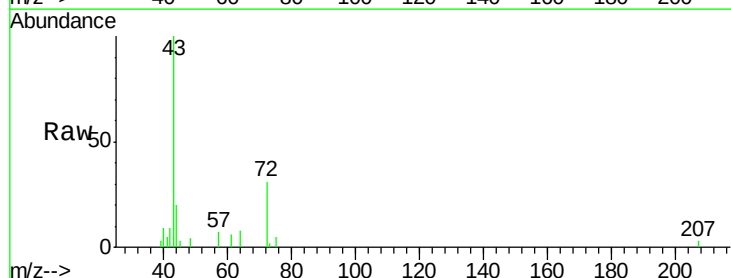
Instrument :
MSVOA_X
ClientSampleId :
TP-1-2-COMP

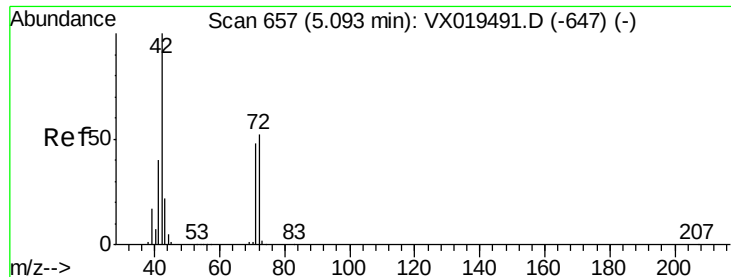
Tot Ion:	84	Resp:	27588
Ion	Ratio	Lower	Upper
84	100		
49	107.2	88.5	132.7
51	33.2	28.0	42.0
86	65.1	53.0	79.4



#25
2-Butanone
Concen: 3.968 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Tgt Ion:	43	Resp:	8424
Ion	Ratio	Lower	Upper
43	100		
72	31.0	24.0	36.0

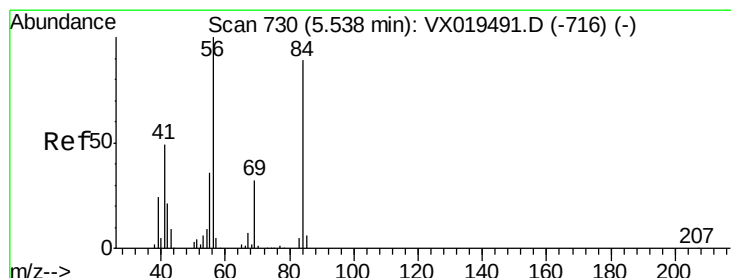
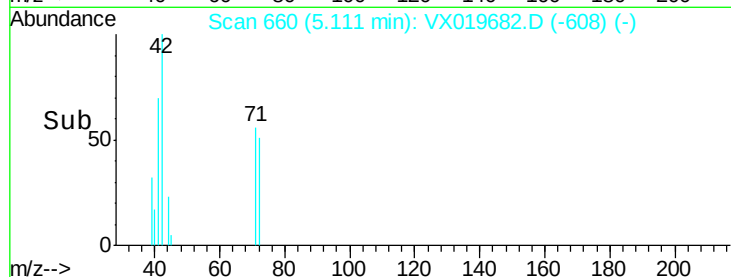
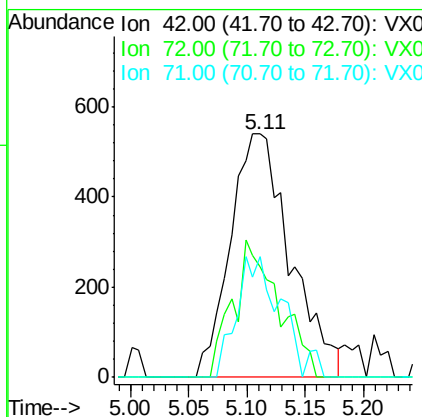
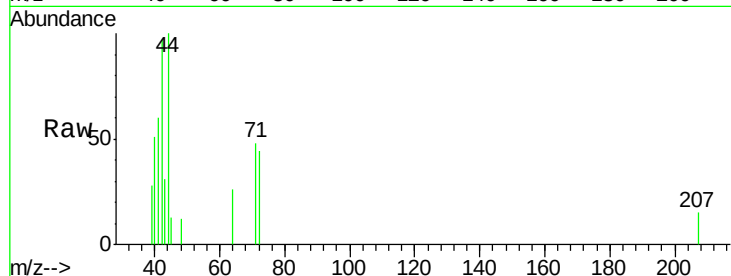




#29
Tetrahydrofuran
Concen: 1.436 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

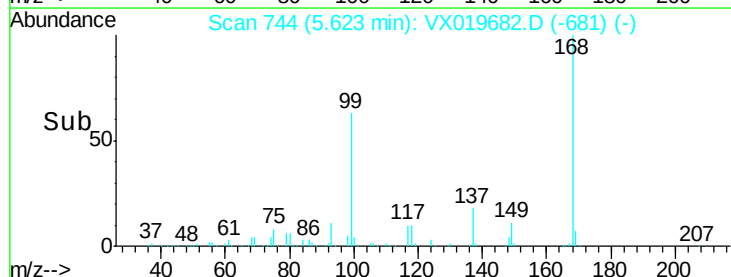
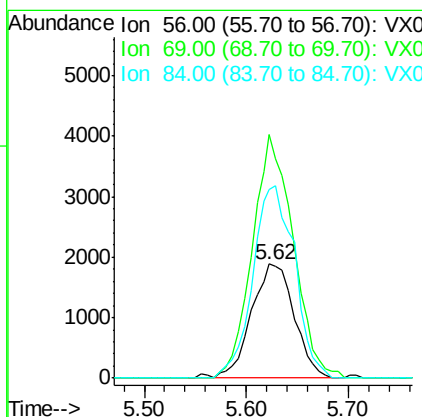
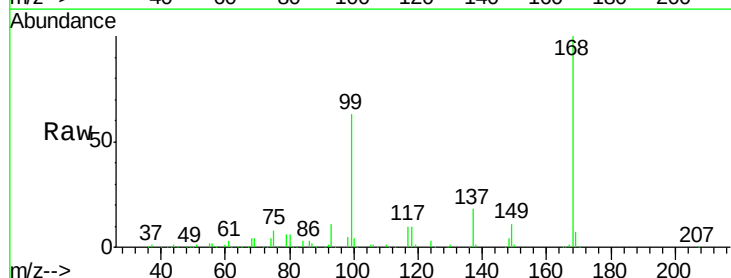
Instrument :
MSVOA_X
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TP-1-2-COMP

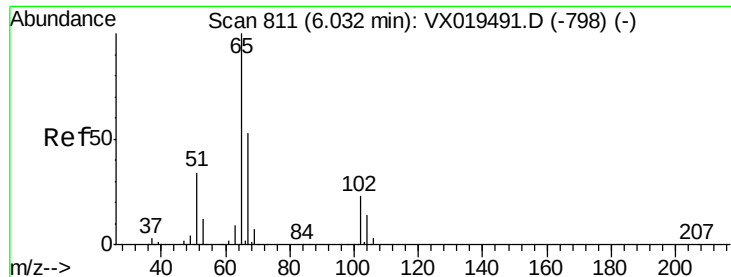
Tot Ion: 42 Resp: 1945
Ion Ratio Lower Upper
42 100
72 42.9 42.6 63.8
71 35.0 39.0 58.6#



#31
Cyclohexane
Concen: 1.154 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Tgt Ion: 56 Resp: 5484
Ion Ratio Lower Upper
56 100
69 213.6 25.5 38.3#
84 165.7 71.1 106.7#

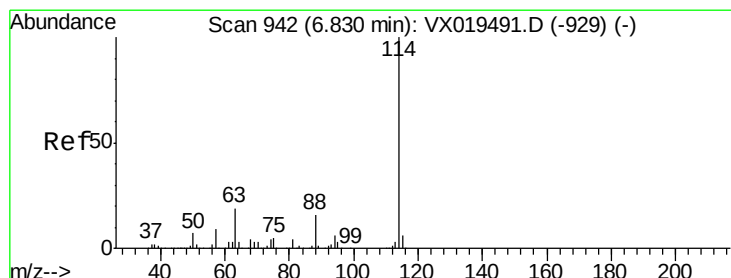
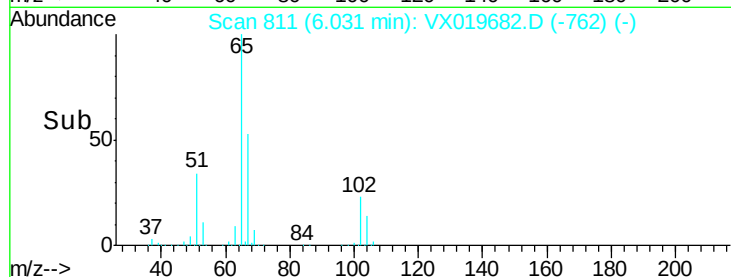
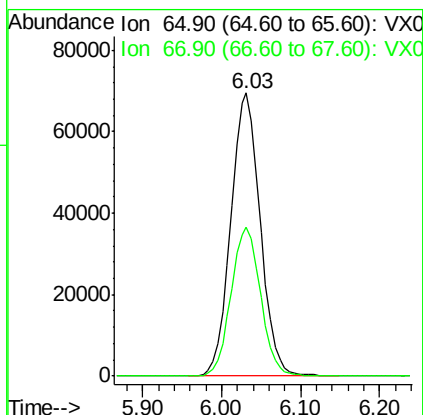
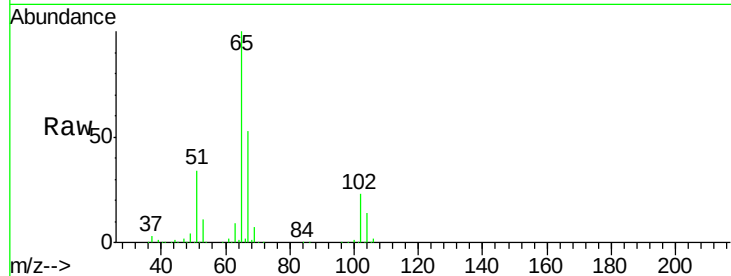




#33
 1,2-Dichloroethane-d4
 Concen: 49.316 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019682.D
 Acq: 30 Nov 2020 15:57

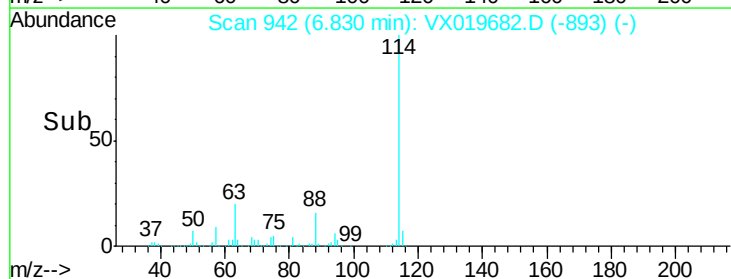
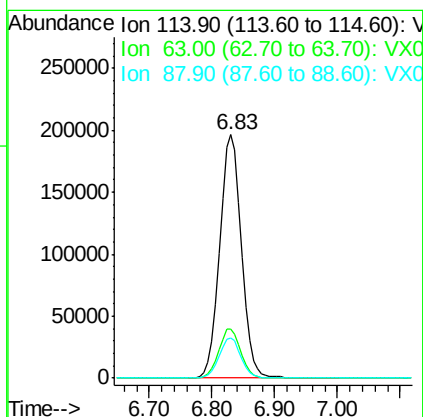
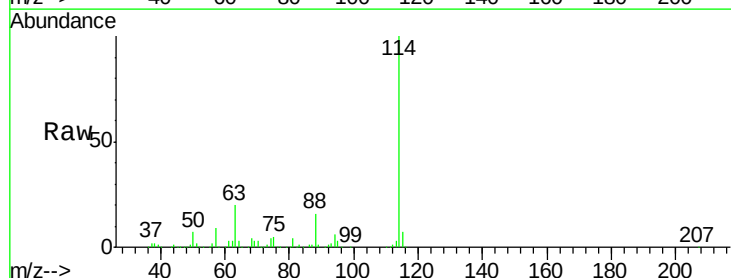
Instrument :
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 ClientSampleId :
 TP-1-2-COMP

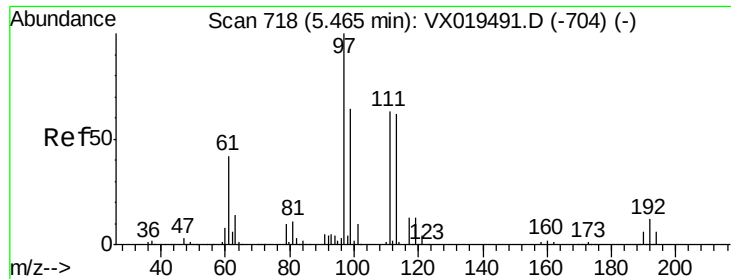
Tot Ion: 65 Resp: 180228
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019682.D
 Acq: 30 Nov 2020 15:57

Tgt Ion: 114 Resp: 470077
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 38.8
 88 16.3 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.493 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

TP-1-2-COMP

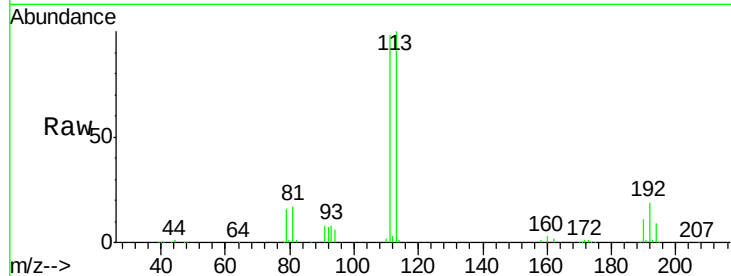
Tot Ion:113 Resp: 146039

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

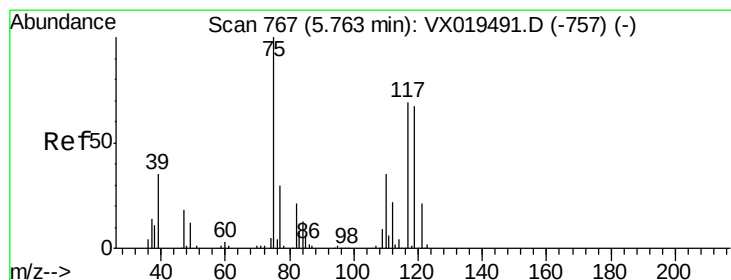
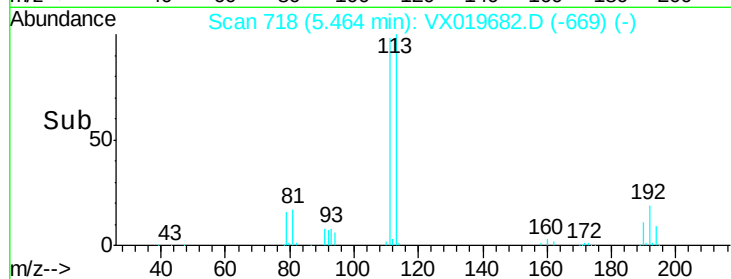
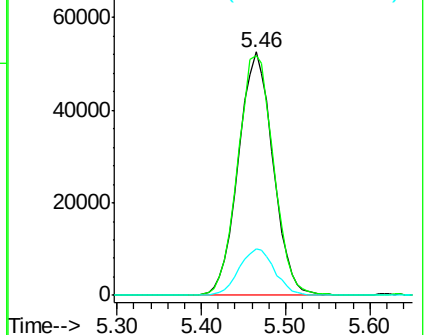
192 19.8 16.2 24.2



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: 4.953 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

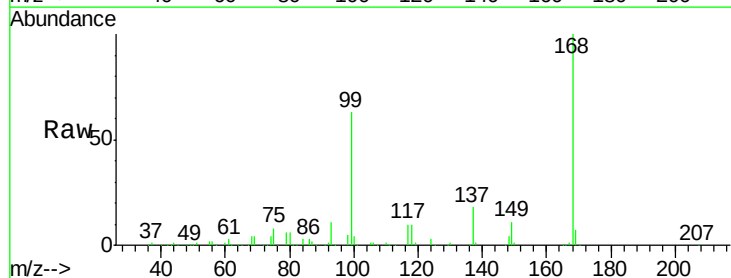
Tgt Ion: 75 Resp: 21829

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

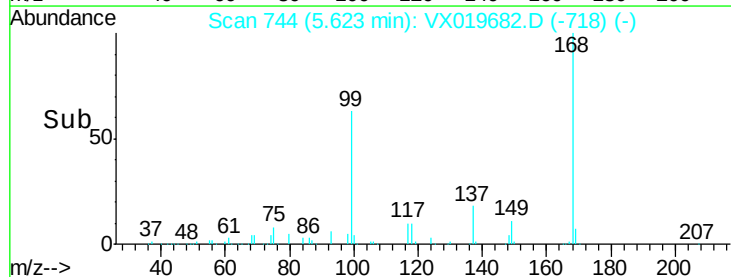
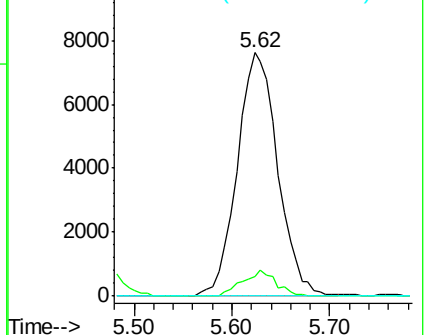
77 0.0 24.2 36.4#

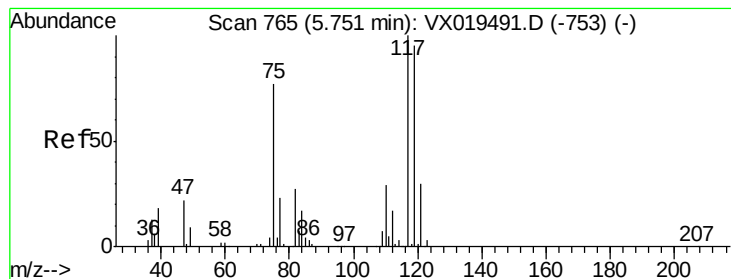


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.494 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

TP-1-2-COMP

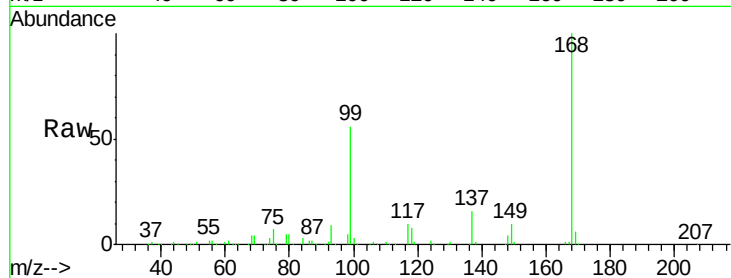
Tot Ion:117 Resp: 27703

Ion Ratio Lower Upper

117 100

119 4.9 75.9 113.9#

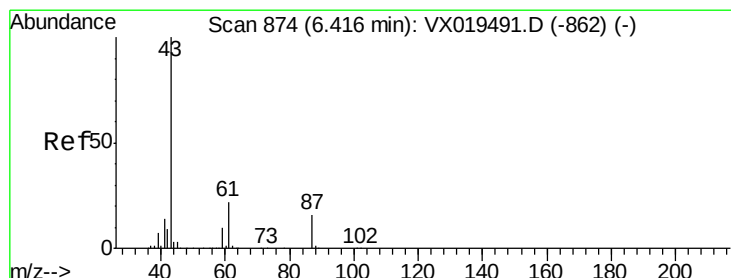
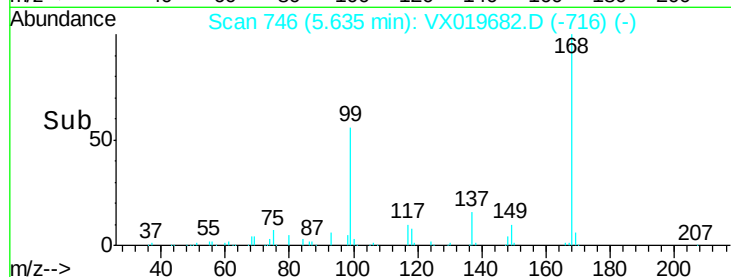
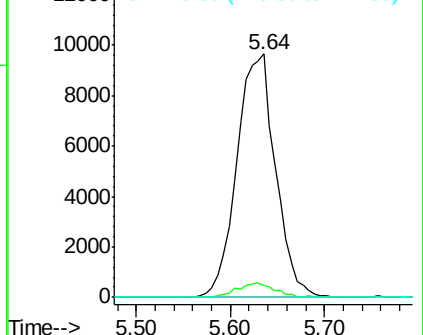
121 0.0 24.0 36.0#



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: 4.549 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

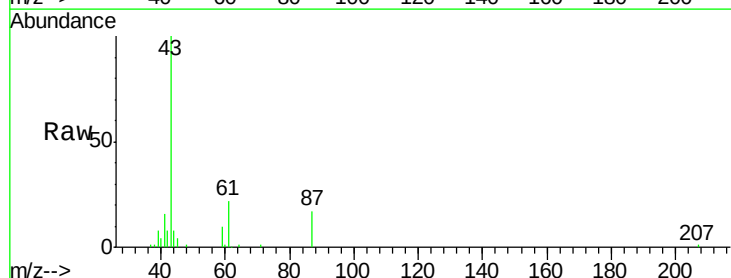
Tgt Ion: 43 Resp: 31636

Ion Ratio Lower Upper

43 100

61 21.9 18.2 27.2

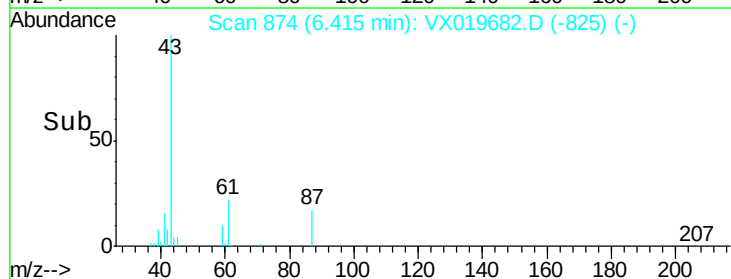
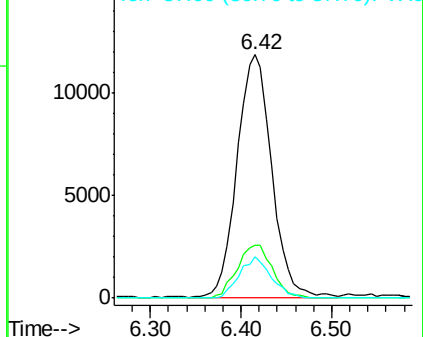
87 15.3 12.6 18.8

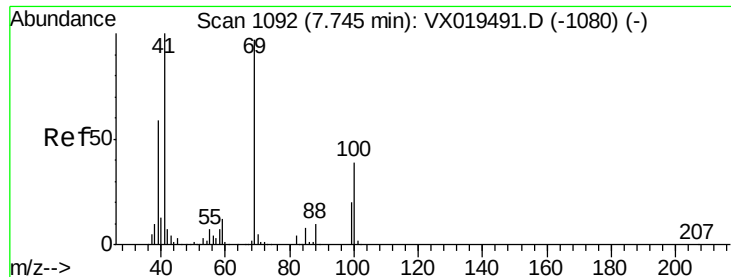


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

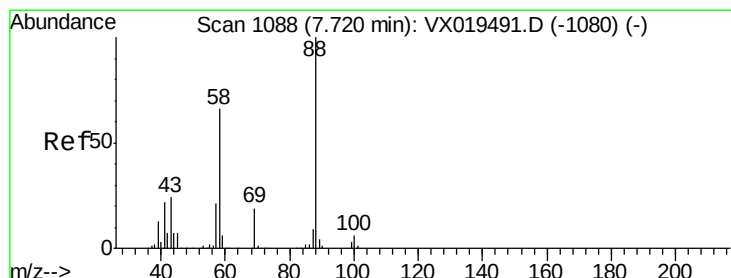
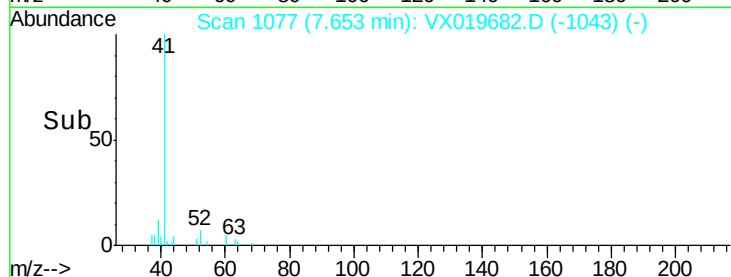
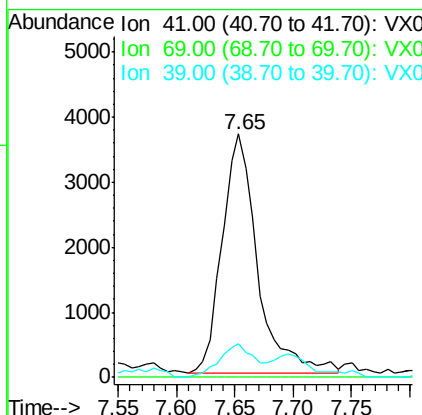
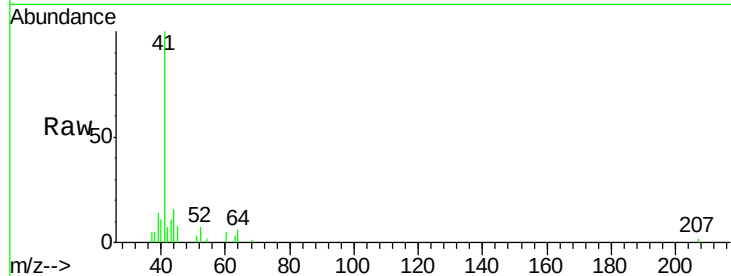




#48
Methvl methacrylate
Concen: 2.374 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

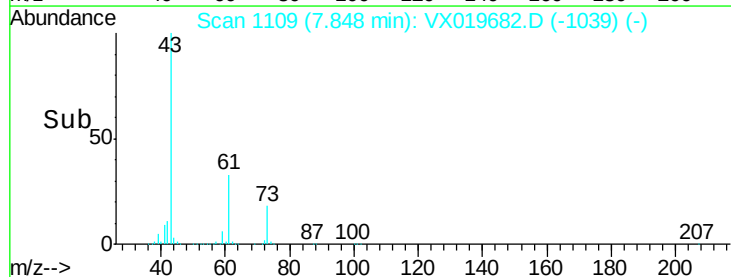
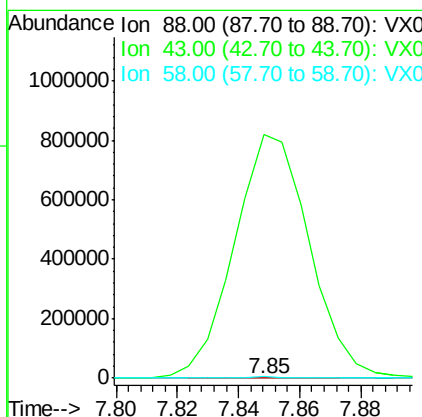
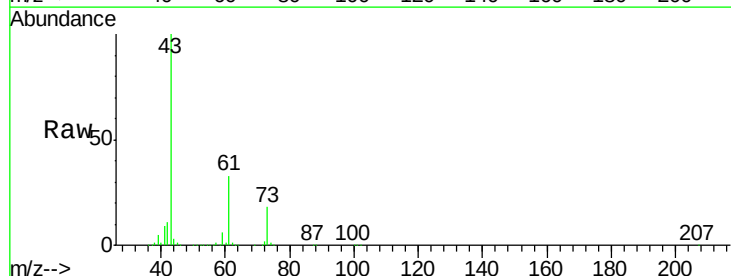
Instrument :
MSVOA_X
ClientSampleId :
TP-1-2-COMP

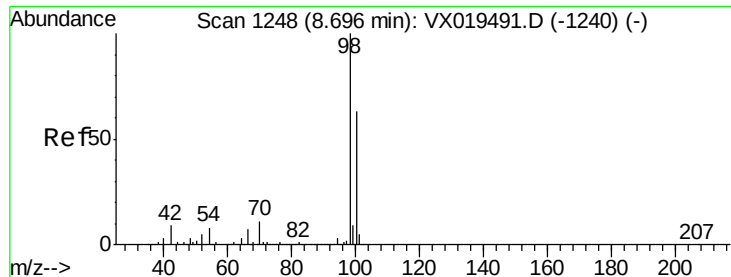
Tot Ion: 41 Resp: 7732
Ion Ratio Lower Upper
41 100
69 0.0 77.0 115.6#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 3.070 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.13 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 622744.1 23.8 35.6#
58 3039.6 54.2 81.2#

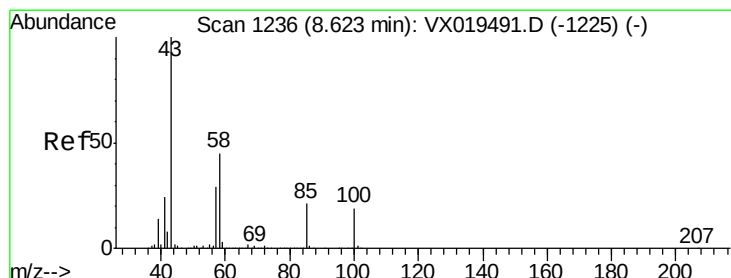
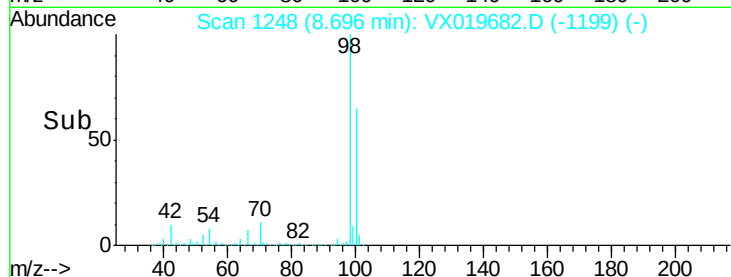
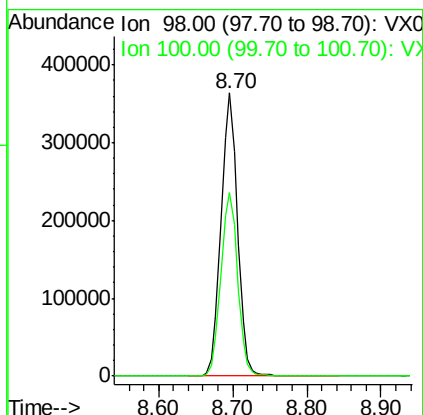
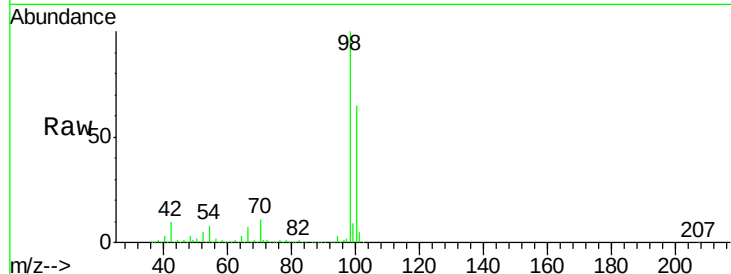




#50
Toluene-d8
Concen: 48.961 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

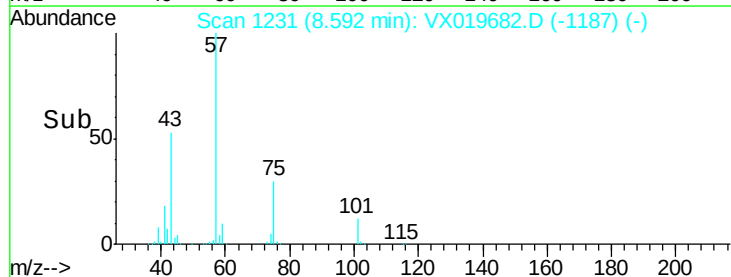
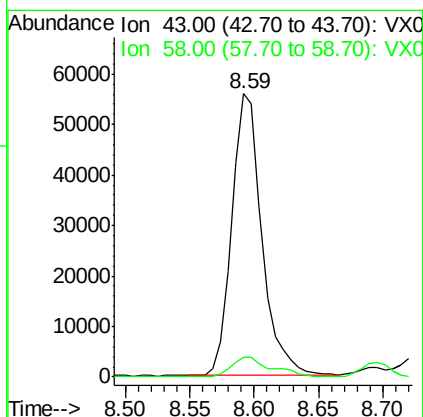
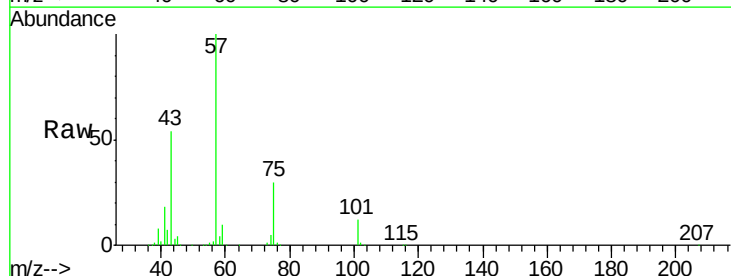
Instrument :
MSVOA_X
ClientSampleId :
TP-1-2-COMP

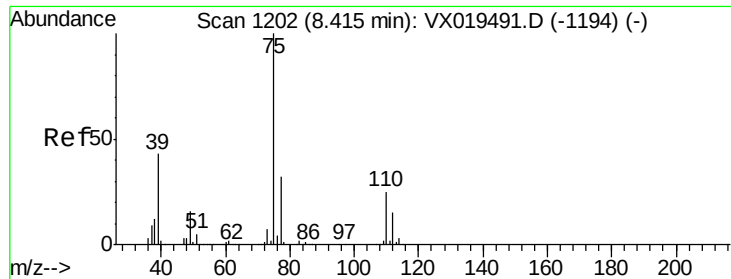
Tot Ion: 98 Resp: 561384
Ion Ratio Lower Upper
98 100
100 66.1 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 22.543 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Tgt Ion: 43 Resp: 91422
Ion Ratio Lower Upper
43 100
58 9.3 35.1 52.7#

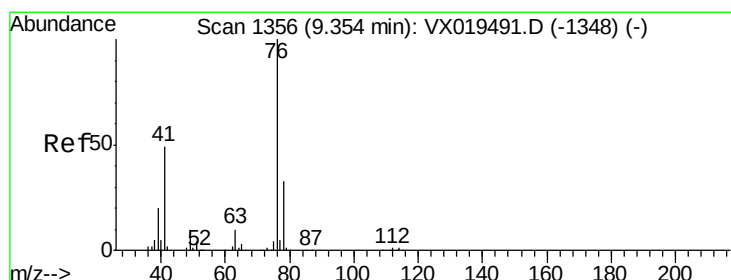
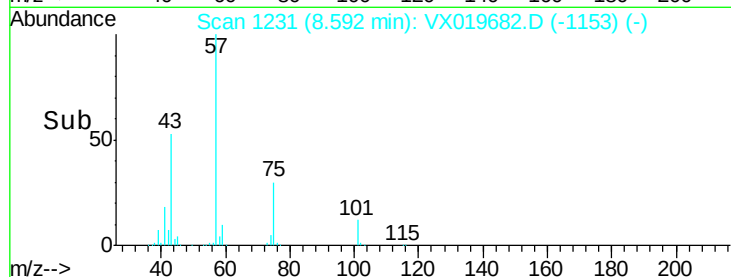
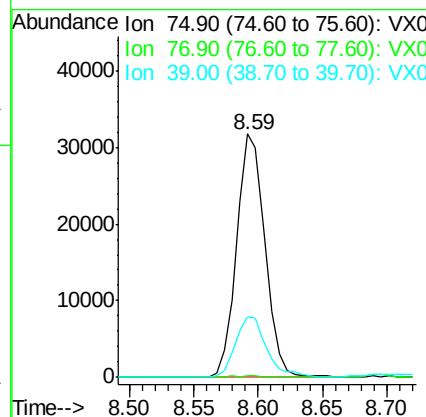
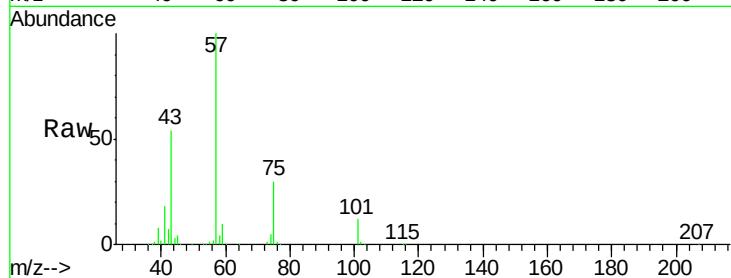




#54
 cis-1,3-Dichloropropene
 Concen: 9.205 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019682.D
 Acq: 30 Nov 2020 15:57

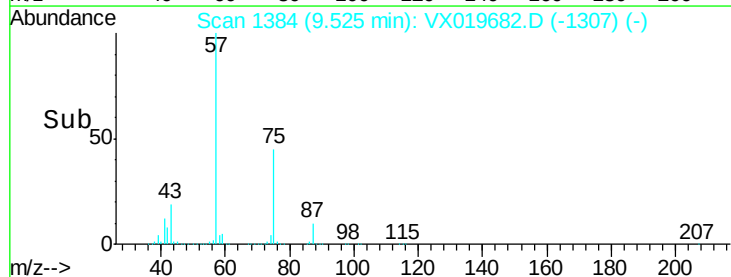
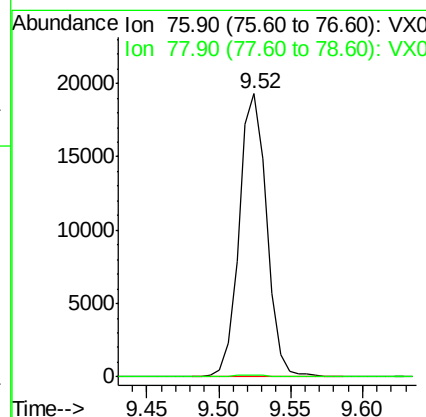
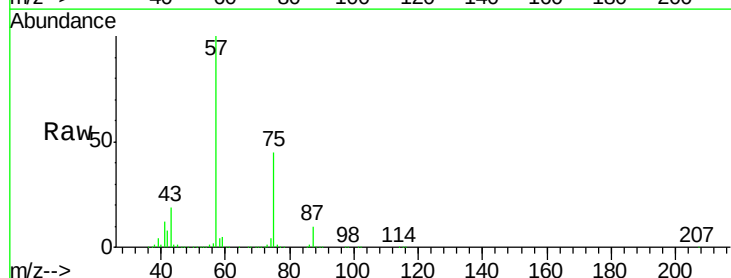
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1-2-COMP

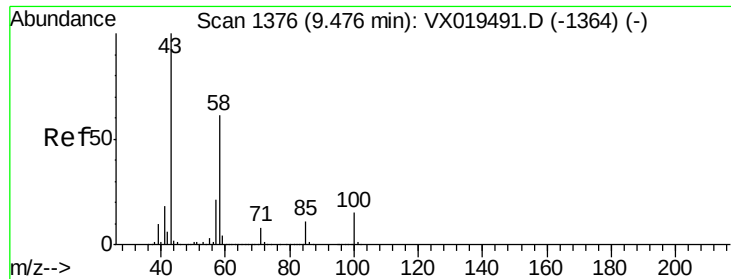
Tot Ion: 75 Resp: 48842
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 24.6 34.6 51.8#



#57
 1,3-Dichloropropane
 Concen: 4.551 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019682.D
 Acq: 30 Nov 2020 15:57

Tgt Ion: 76 Resp: 25703
 Ion Ratio Lower Upper
 76 100
 78 0.8 25.7 38.5#

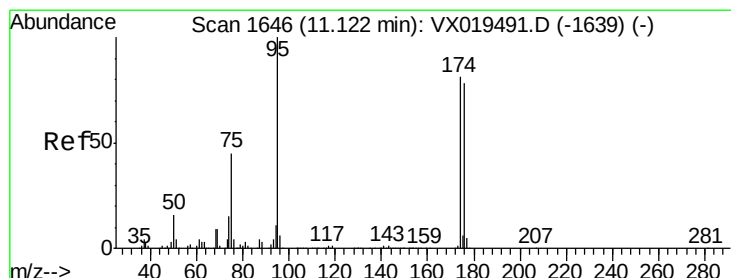
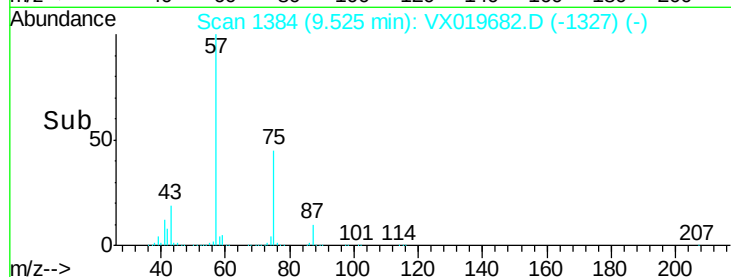
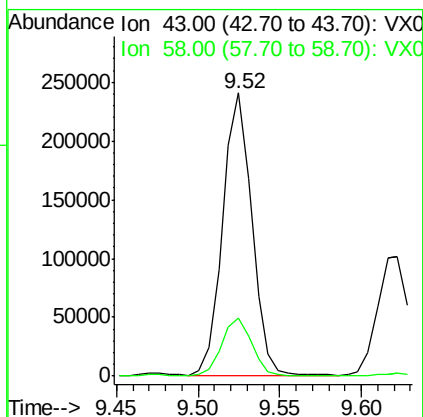
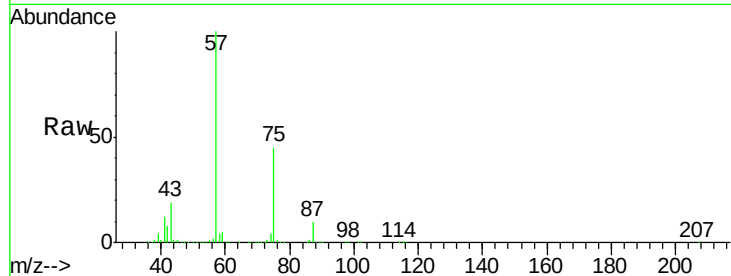




#59
2-Hexanone
Concen: 97.124 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

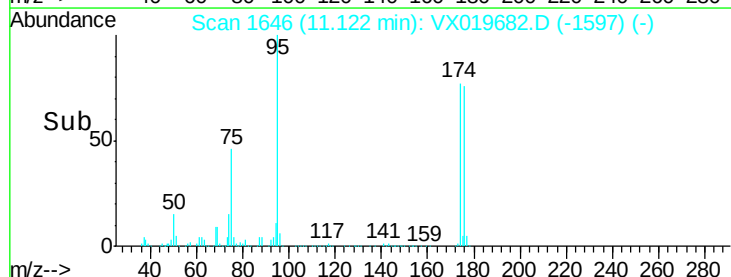
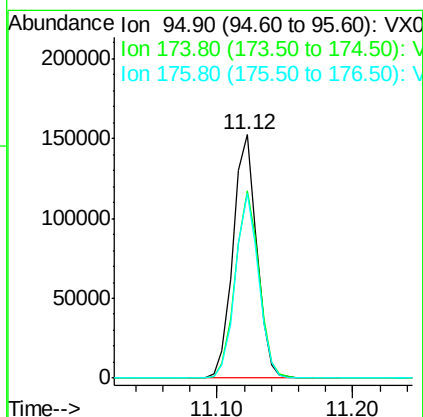
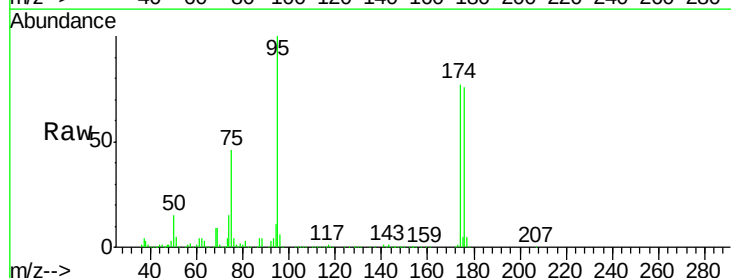
Instrument :
MSVOA_X
ClientSampleId :
TP-1-2-COMP

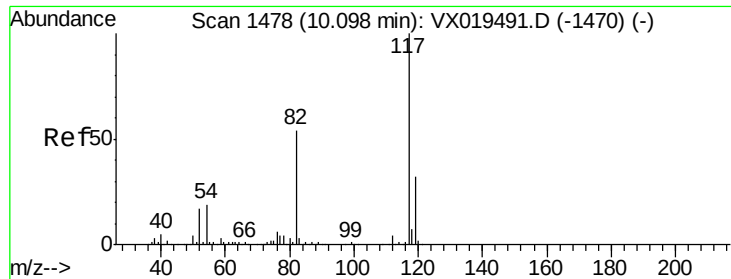
Tot Ion: 43 Resp: 298731
Ion Ratio Lower Upper
43 100
58 21.3 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 44.980 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Tgt Ion: 95 Resp: 185555
Ion Ratio Lower Upper
95 100
174 76.8 0.0 156.2
176 73.9 0.0 151.4

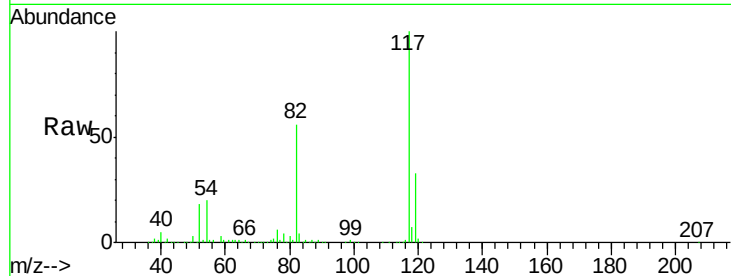




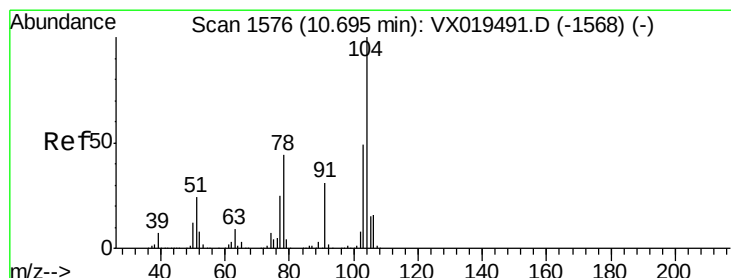
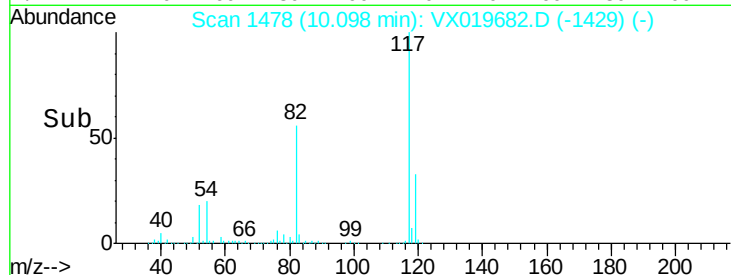
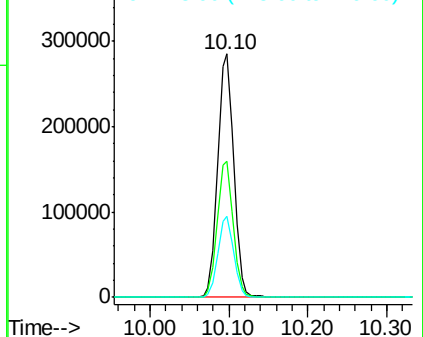
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Instrument :
MSVOA_X
ClientSampleId :
TP-1-2-COMP

Tot Ion:117 Resp: 405809
Ion Ratio Lower Upper
117 100
82 55.9 43.0 64.4
119 33.4 25.6 38.4

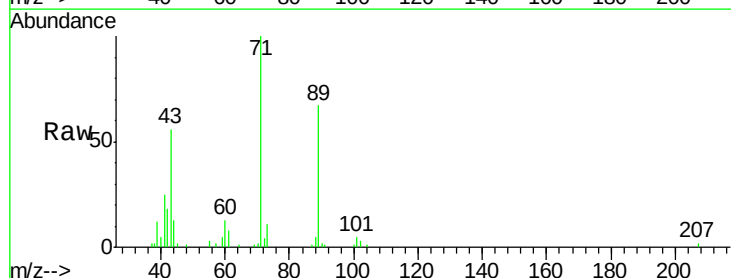


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

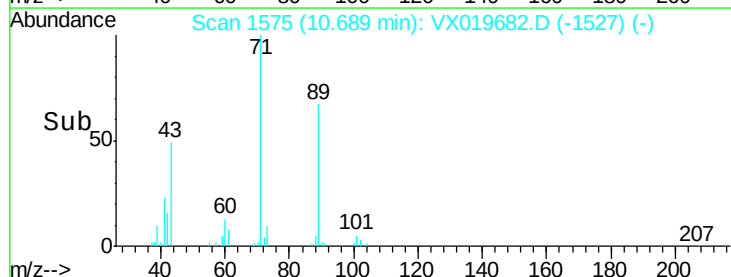
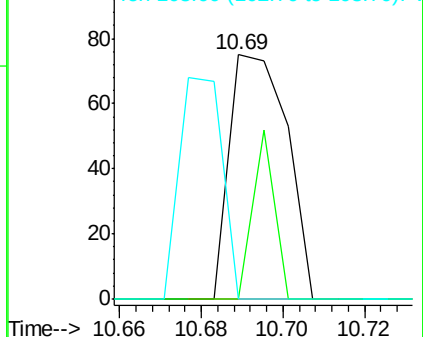


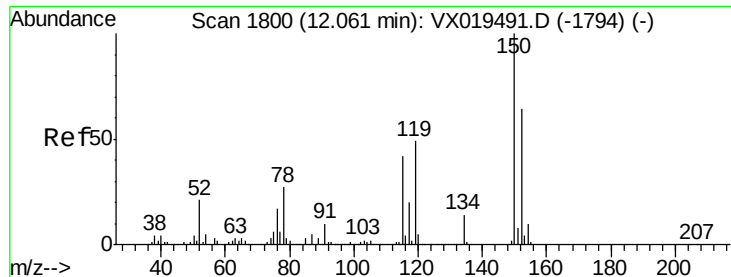
#70
Styrene
Concen: 1.653 ug/l
RT: 10.69 min Scan# 1575
Delta R.T. -0.01 min
Lab File: VX019682.D
Acq: 30 Nov 2020 15:57

Tgt Ion:104 Resp: 74
Ion Ratio Lower Upper
104 100
78 25.7 39.5 59.3#
103 66.2 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

TP-1-2-COMP

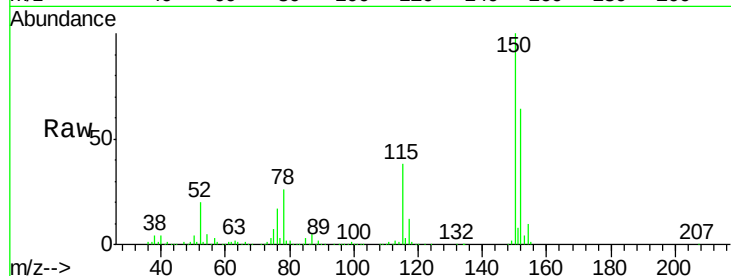
Tot Ion:152 Resp: 161591

Ion Ratio Lower Upper

152 100

115 59.8 41.8 125.4

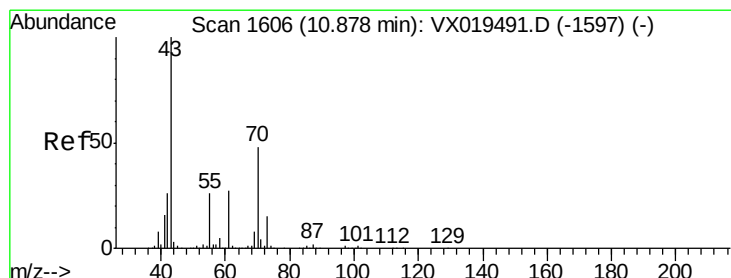
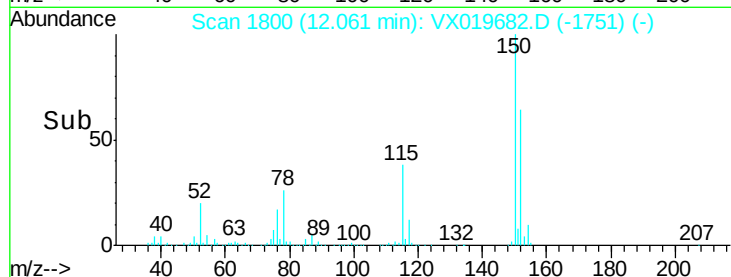
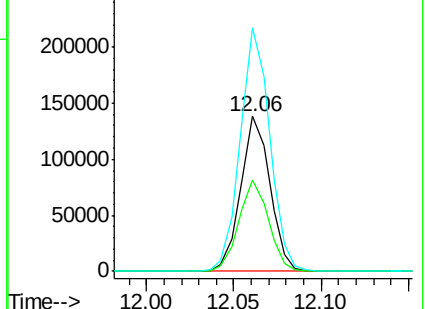
150 158.6 0.0 348.2



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



#74

N-ethyl acetate

Concen: 0.490 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Tgt Ion: 43 Resp: 2054

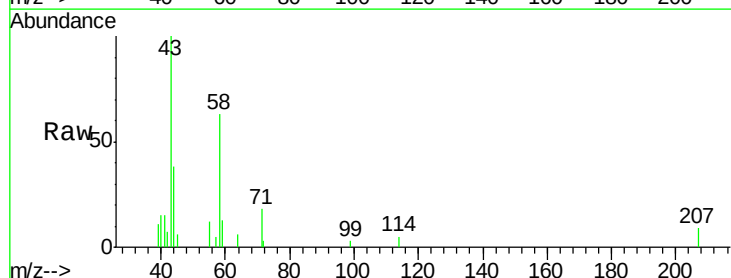
Ion Ratio Lower Upper

43 100

70 0.0 39.7 59.5#

55 17.0 21.8 32.6#

61 0.0 22.2 33.4#

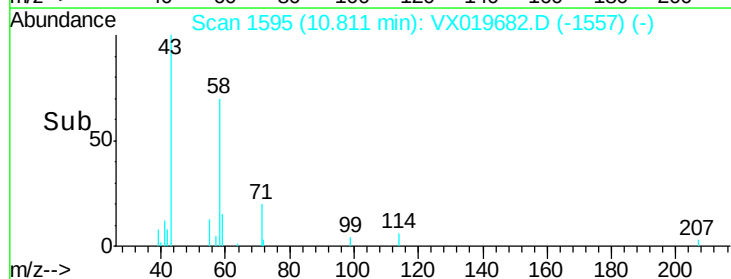
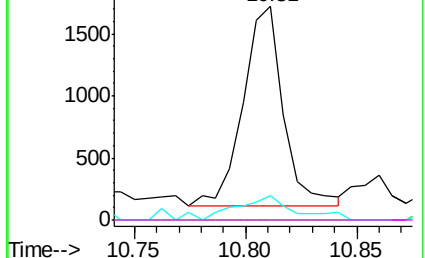


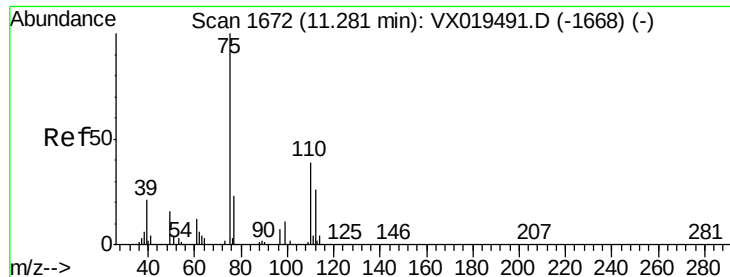
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 25.334 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

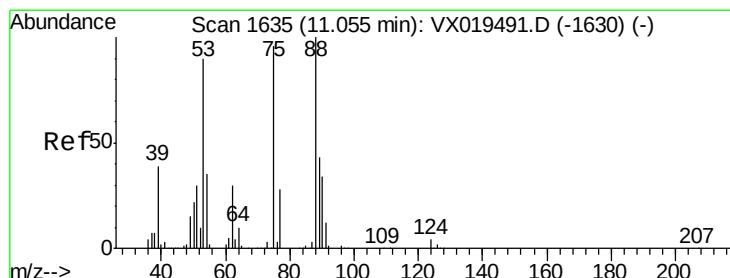
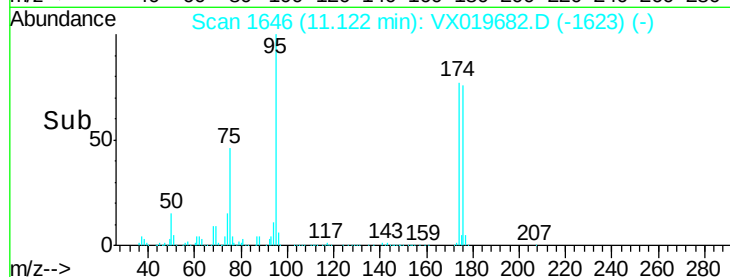
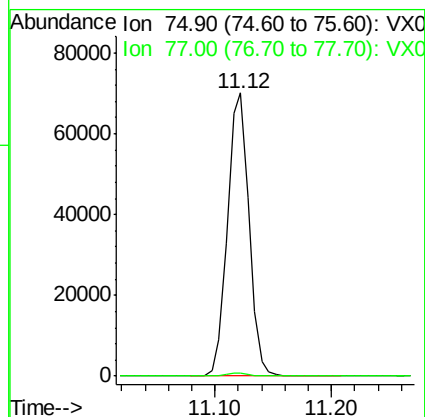
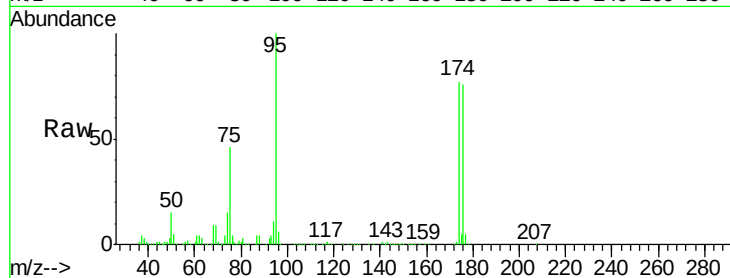
TP-1-2-COMP

Tot Ion: 75 Resp: 89339

Ion Ratio Lower Upper

75 100

77 1.2 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.865 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

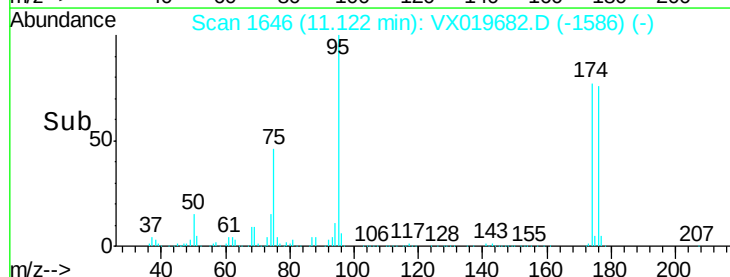
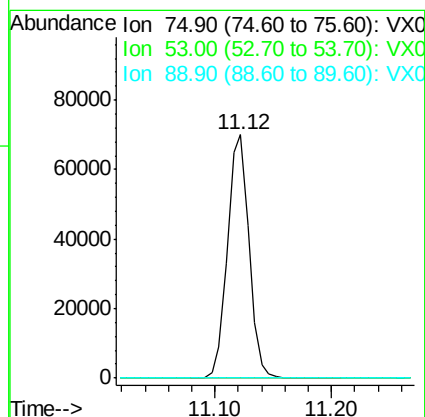
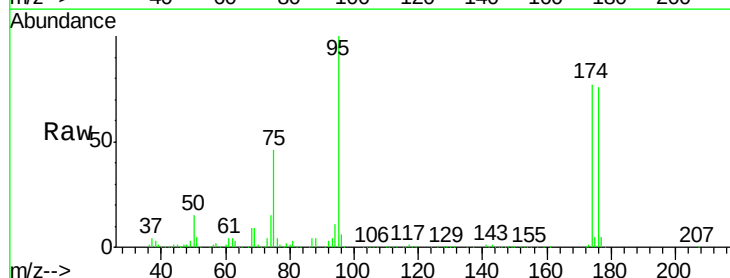
Tgt Ion: 75 Resp: 89339

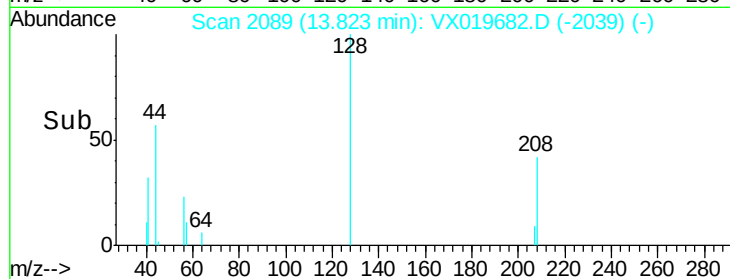
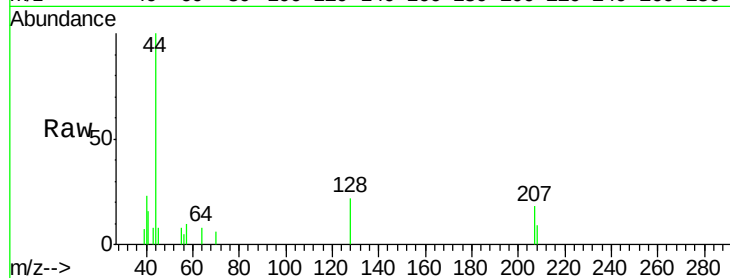
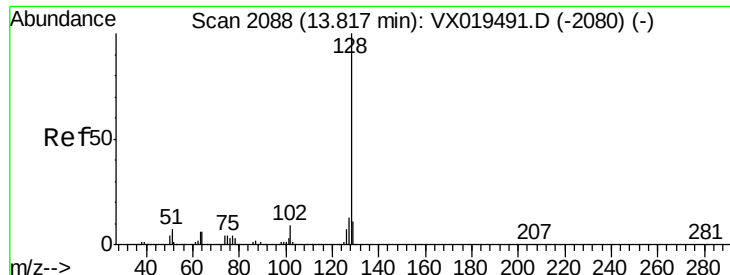
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.202 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX019682.D

Acq: 30 Nov 2020 15:57

Instrument :

MSVOA_X

ClientSampleId :

TP-1-2-COMP

Tot Ion:128 Resp: 301

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

