

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019585.D
 Acq On : 24 Nov 2020 05:28
 Operator : JC/MD
 Sample : L4848-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-2-BOTTOM

Quant Time: Nov 24 06:59:04 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	5.62	168	307566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	508837	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	451290	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	192816	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	192024	48.15	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.30%	
35) Dibromofluoromethane		5.46	113	150752	47.20	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.40%	
50) Toluene-d8		8.70	98	612109	49.32	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.64%	
62) 4-Bromofluorobenzene		11.12	95	206749	46.30	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.60%	

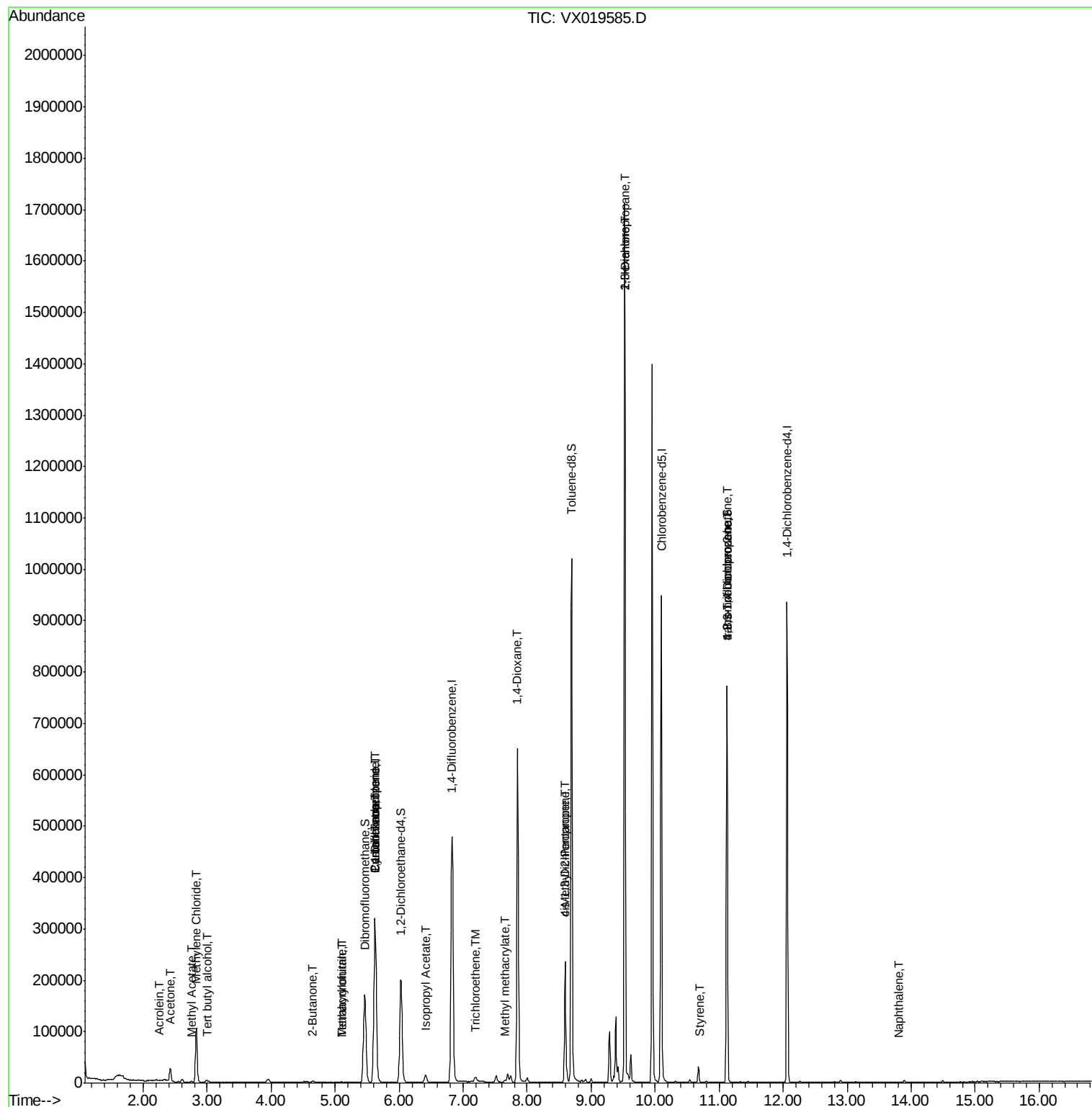
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	441	Below Cal	#	83
11) Tert butyl alcohol	3.00	59	3560	4.717	ug/l #	73
13) Acrolein	2.26	56	127	0.250	ug/l #	1
16) Acetone	2.42	43	27317	17.713	ug/l	99
18) Methyl Acetate	2.75	43	2205	1.210	ug/l	96
20) Methylene Chloride	2.83	84	52335	13.578	ug/l	96
25) 2-Butanone	4.64	43	5005	2.160	ug/l	89
29) Tetrahydrofuran	5.10	42	1585	1.072	ug/l #	84
31) Cyclohexane	5.63	56	5913	1.140	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23548	4.936	ug/l #	50
38) Carbon Tetrachloride	5.62	117	30808	6.672	ug/l #	17
41) Methacrylonitrile	5.12	41	1033	0.418	ug/l #	43
43) Isopropyl Acetate	6.42	43	20417	2.712	ug/l	99
44) Trichloroethene	7.18	130	1975	0.514	ug/l	84
48) Methyl methacrylate	7.65	41	5782	1.640	ug/l #	18
49) 1,4-Dioxane	7.85	88	63	0.787	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	76933	17.525	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	41362	7.202	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	15544	2.542	ug/l #	43
59) 2-Hexanone	9.52	43	182688	54.871	ug/l #	47
70) Styrene	10.70	104	42	1.650	ug/l #	64
76) 1,2,3-Trichloropropane	11.12	75	102243	24.298	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	102243	64.304	ug/l #	12
95) Naphthalene	13.81	128	285	2.197	ug/l #	69

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

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Misc : 5.0mL/MSVOA X/WATER
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Quant Time: Nov 24 06:59:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
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: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

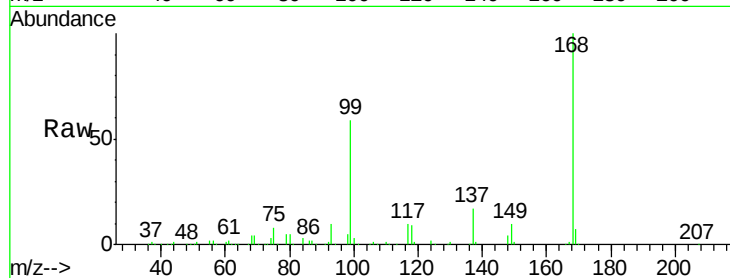
TR5-2-BOTTOM

Tot Ion:168 Resp: 307566

Ion Ratio Lower Upper

168 100

99 58.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

40000

20000

0

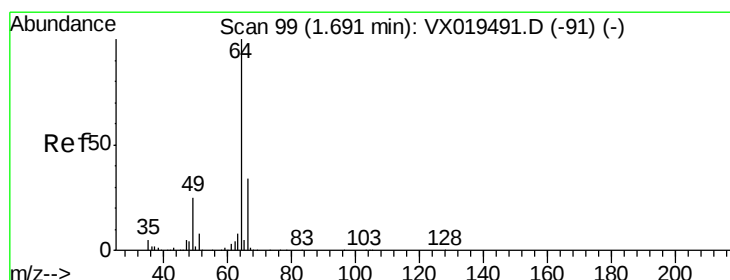
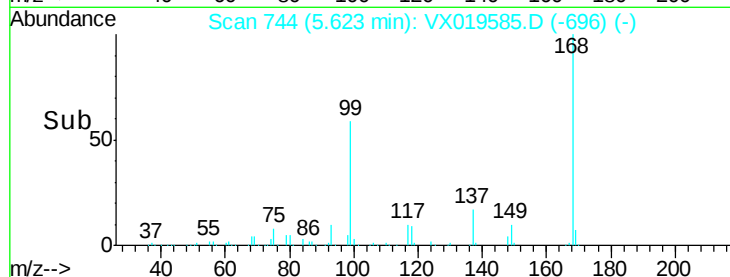
Time-->

5.50

5.60

5.70

5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. 0.02 min

Lab File: VX019585.D

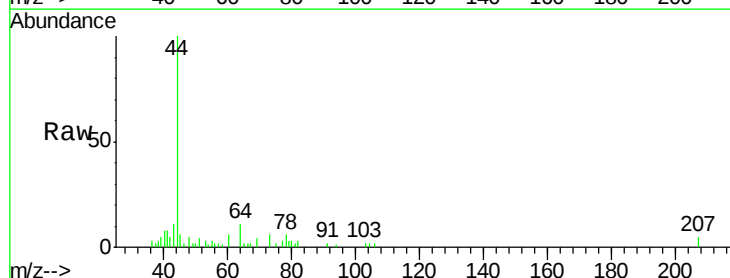
Acq: 24 Nov 2020 05:28

Tgt Ion: 64 Resp: 441

Ion Ratio Lower Upper

64 100

66 23.9 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

400

300

200

100

0

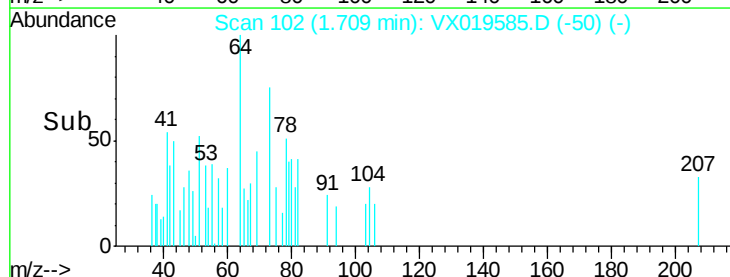
Time-->

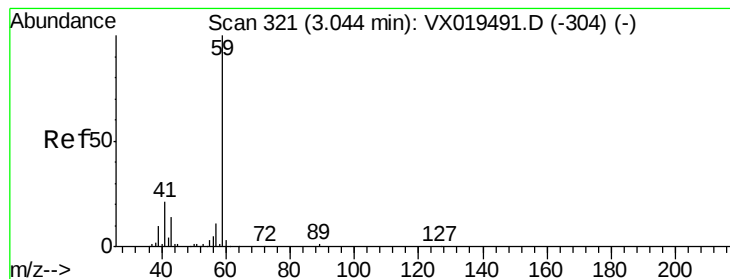
1.68

1.70

1.72

1.74





#11

Tert butyl alcohol

Concen: 4.717 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.04 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

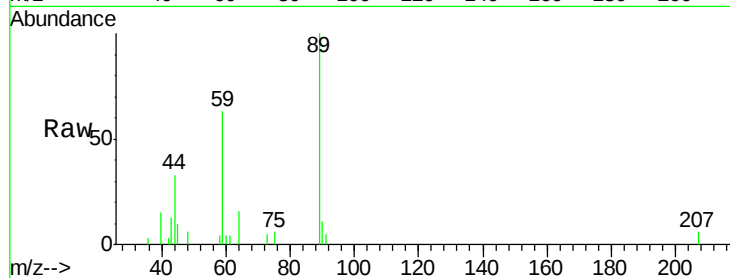
TR5-2-BOTTOM

Tot Ion: 59 Resp: 3560

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1200

1000

800

600

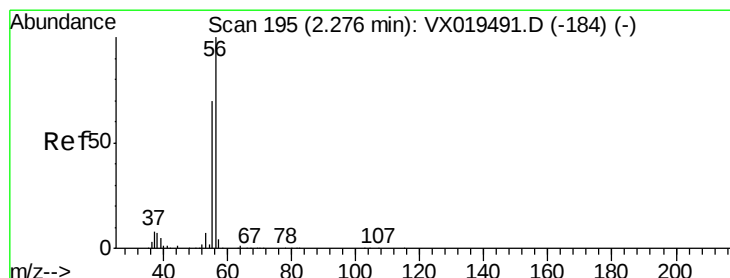
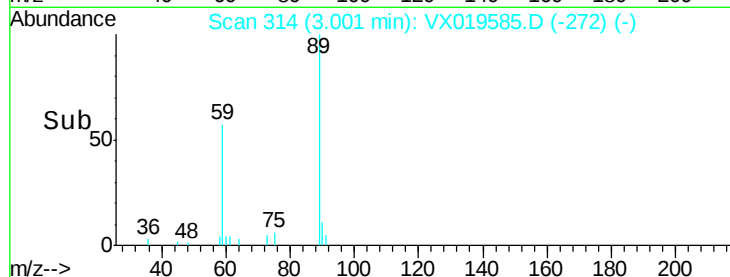
400

200

0

Time--> 2.90 3.00 3.10

3.00



#13

Acrolein

Concen: 0.250 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019585.D

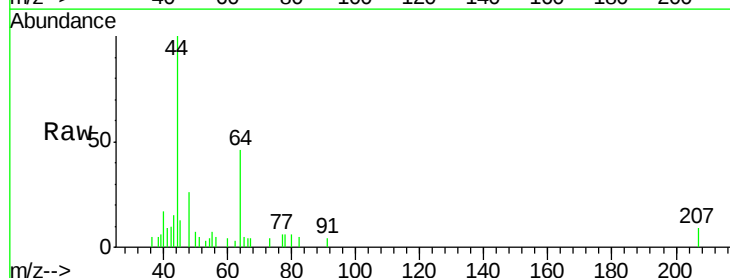
Acq: 24 Nov 2020 05:28

Tgt Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 176.4 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

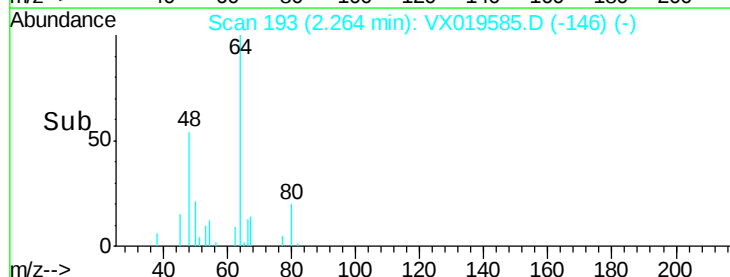
100

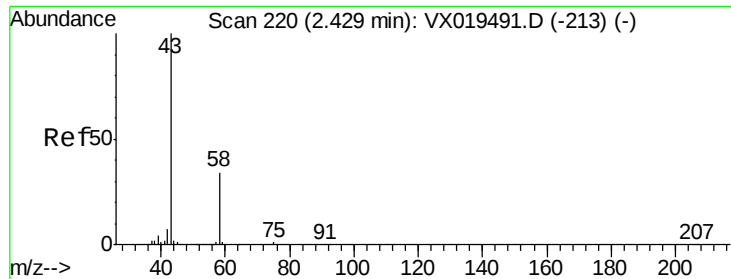
50

0

Time--> 2.24 2.26 2.28

2.26





#16

Acetone

Concen: 17.713 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

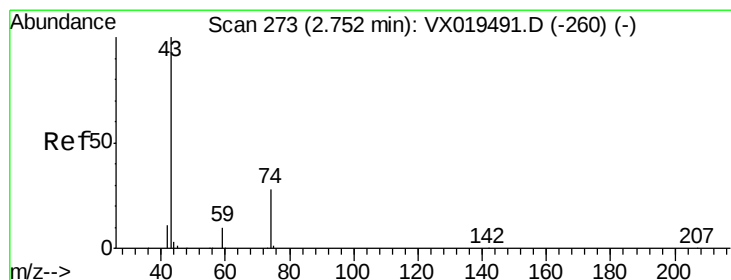
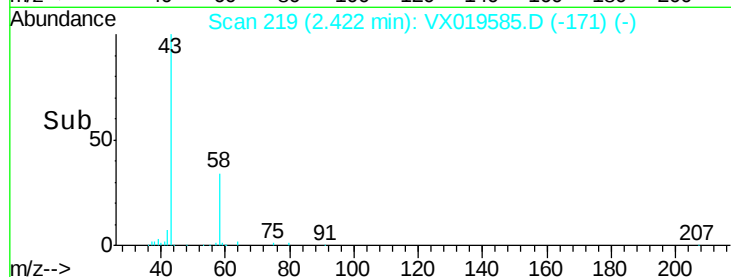
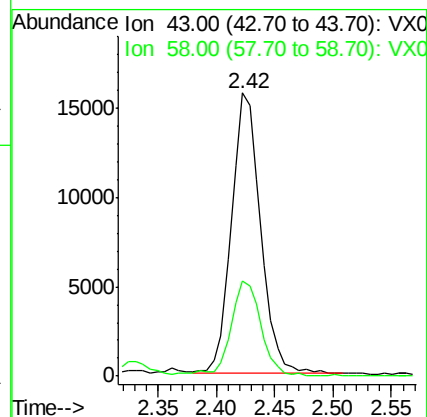
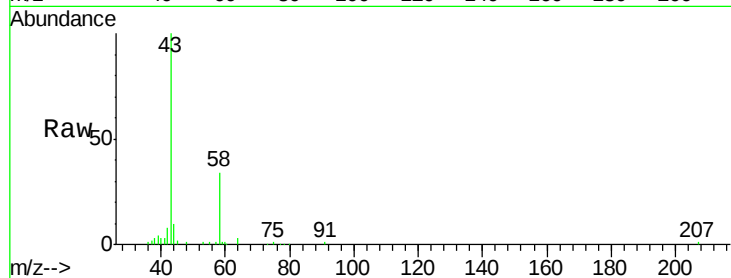
TR5-2-BOTTOM

Tot Ion: 43 Resp: 27317

Ion Ratio Lower Upper

43 100

58 33.9 27.4 41.2



#18

Methyl Acetate

Concen: 1.210 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019585.D

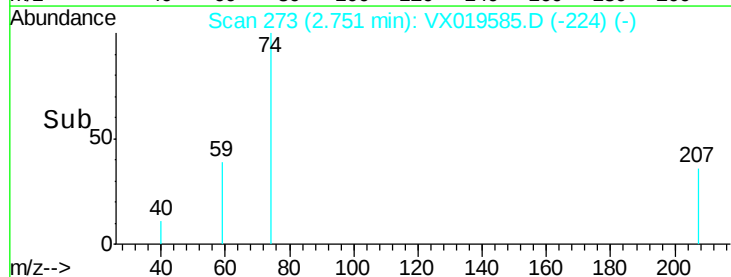
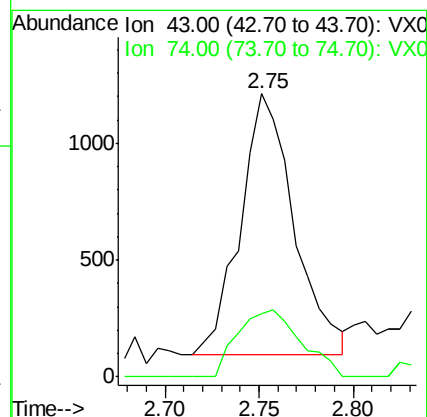
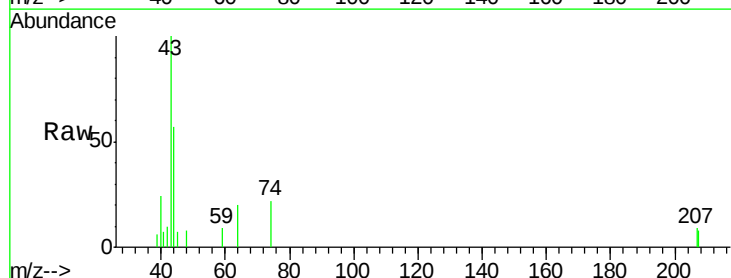
Acq: 24 Nov 2020 05:28

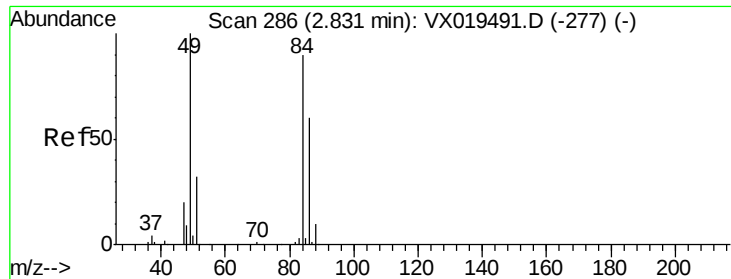
Tgt Ion: 43 Resp: 2205

Ion Ratio Lower Upper

43 100

74 30.1 22.2 33.4

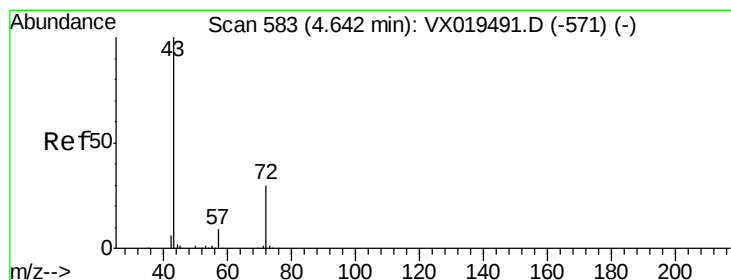
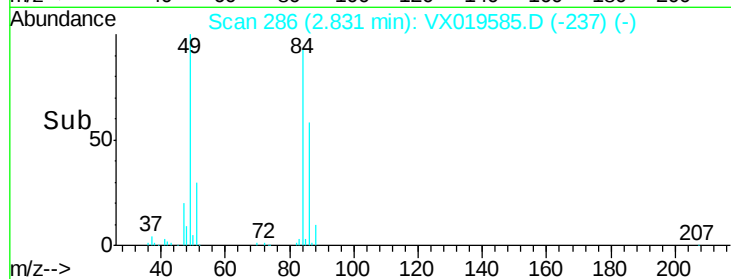
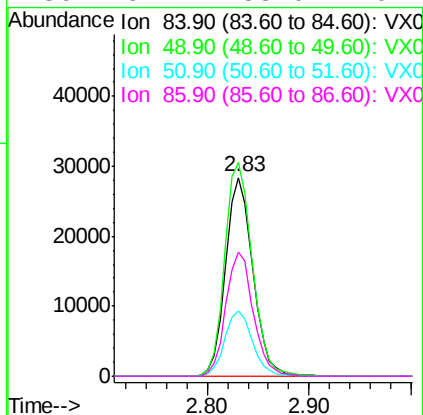
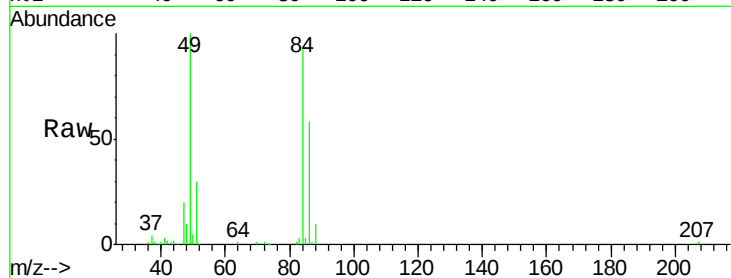




#20
Methvlene Chloride
Concen: 13.578 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

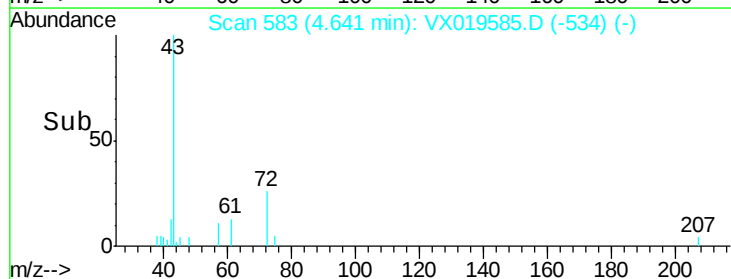
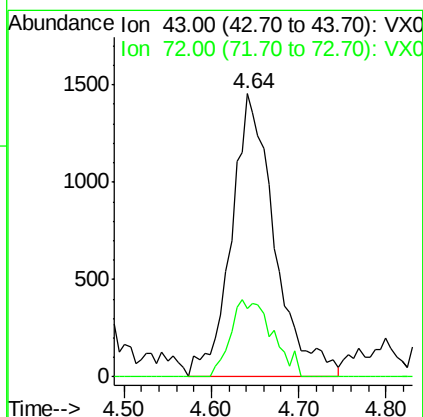
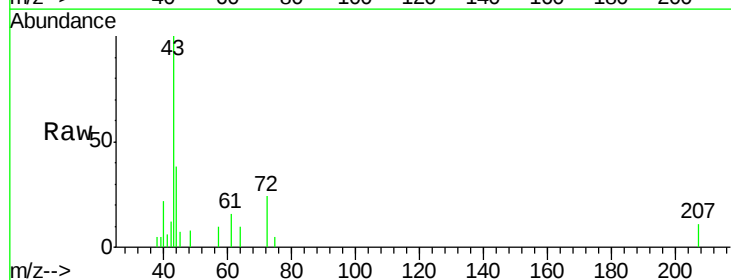
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-BOTTOM

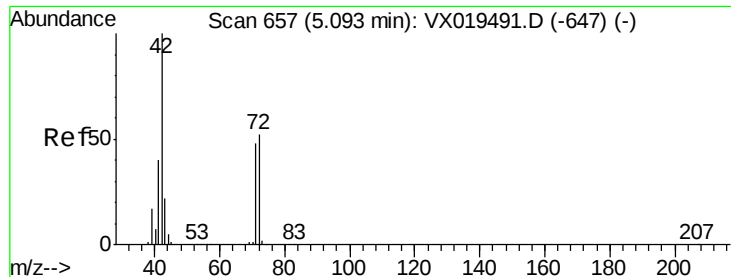
Tot Ion:	84	Resp:	52335
Ion	Ratio	Lower	Upper
84	100		
49	107.4	88.5	132.7
51	32.6	28.0	42.0
86	62.2	53.0	79.4



#25
2-Butanone
Concen: 2.160 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

Tgt Ion:	43	Resp:	5005
Ion	Ratio	Lower	Upper
43	100		
72	24.3	24.0	36.0

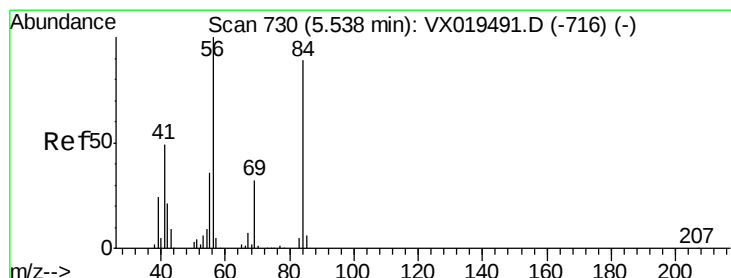
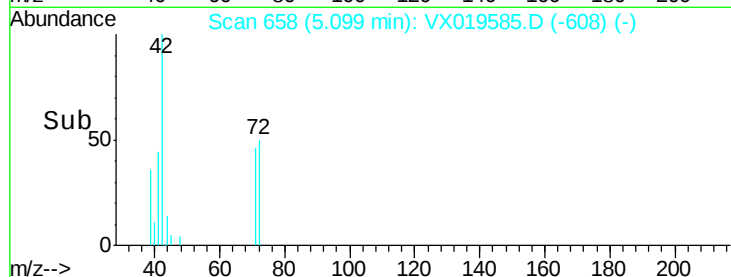
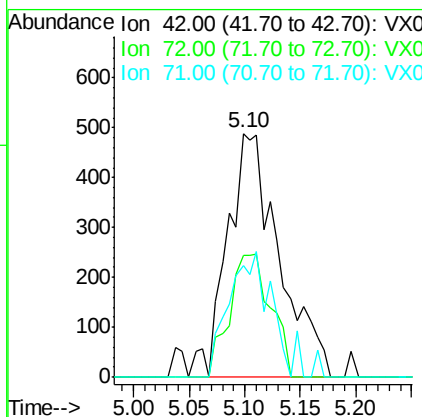
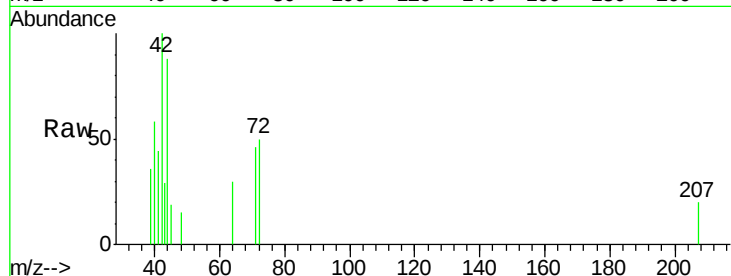




#29
Tetrahydrofuran
Concen: 1.072 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

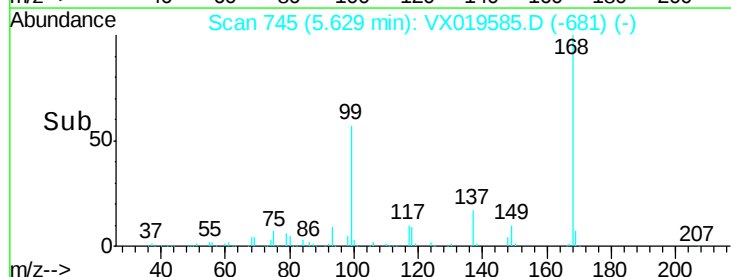
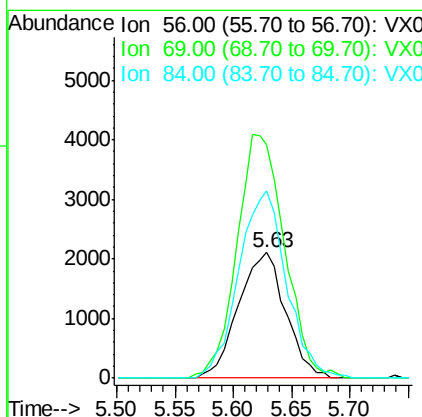
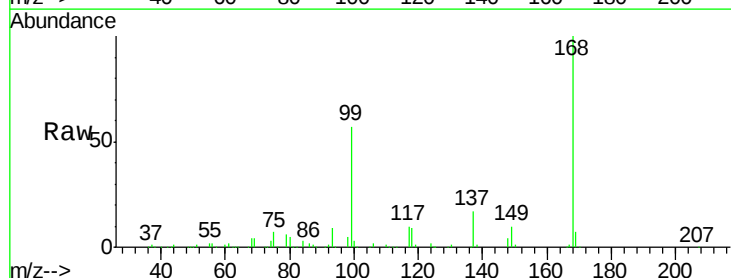
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-BOTTOM

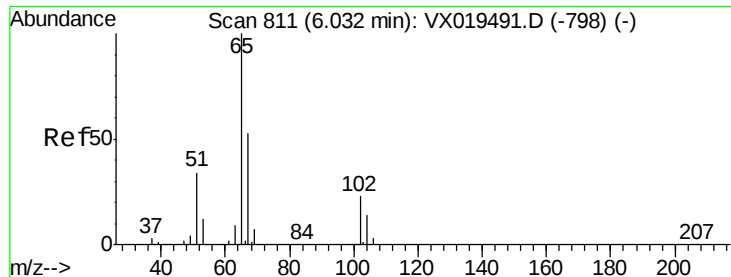
Tot Ion	Ratio	Lower	Upper
42	100		
72	39.9	42.6	63.8#
71	40.3	39.0	58.6



#31
Cyclohexane
Concen: 1.140 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

Tgt Ion	Ratio	Lower	Upper
56	100		
69	185.8	25.5	38.3#
84	149.1	71.1	106.7#

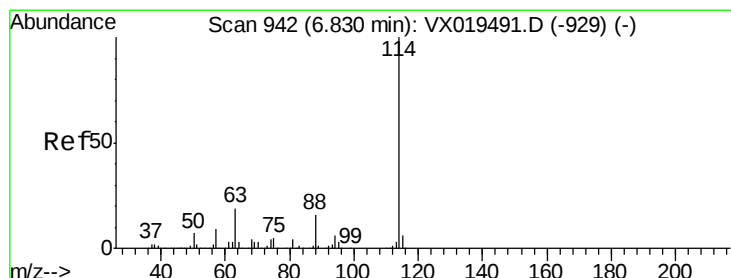
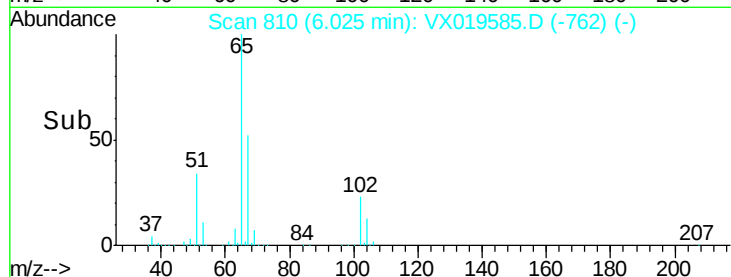
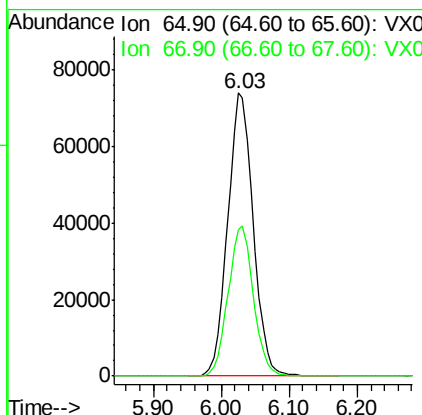
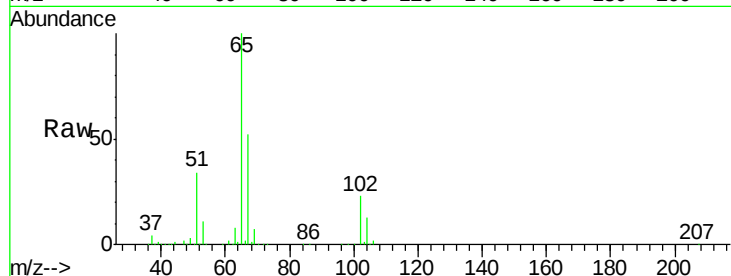




#33
 1,2-Dichloroethane-d4
 Concen: 48.152 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX019585.D
 Acq: 24 Nov 2020 05:28

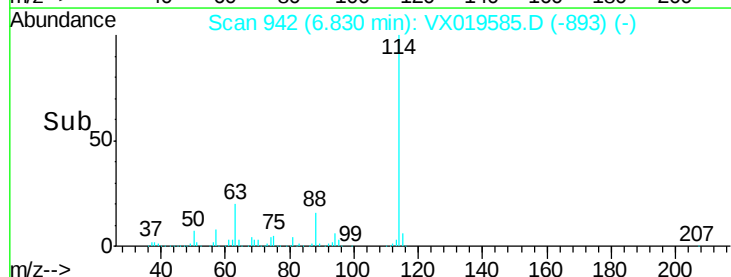
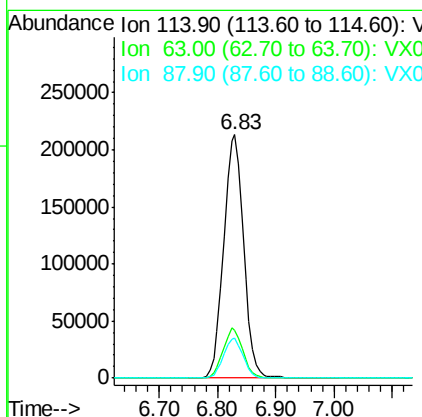
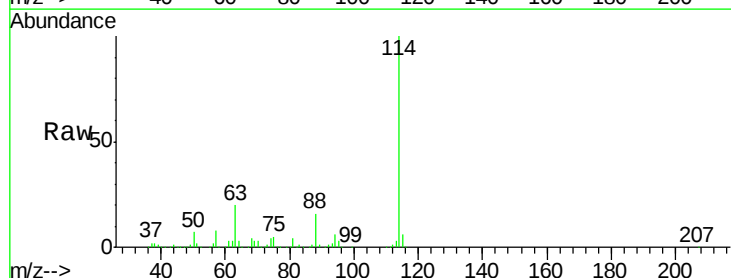
Instrument :
 MSVOA_X
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 TR5-2-BOTTOM

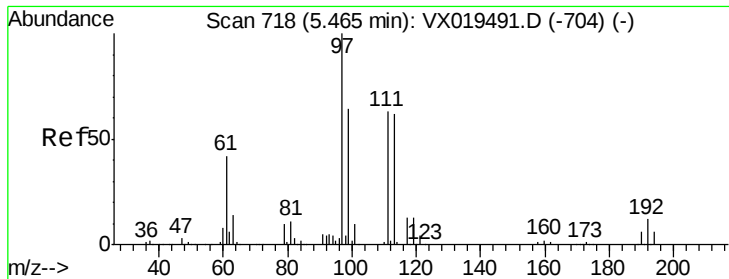
Tot Ion: 65 Resp: 192024
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019585.D
 Acq: 24 Nov 2020 05:28

Tgt Ion: 114 Resp: 508837
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.8
 88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.199 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-BOTTOM

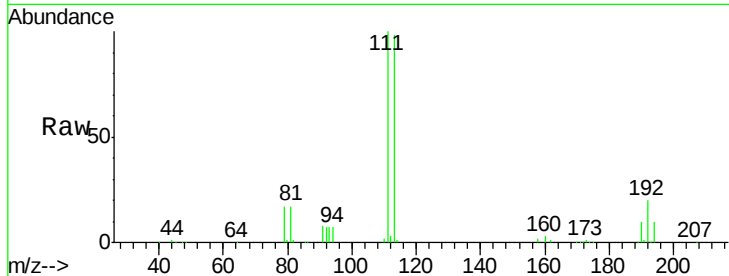
Tot Ion:113 Resp: 150752

Ion Ratio Lower Upper

113 100

111 103.2 81.5 122.3

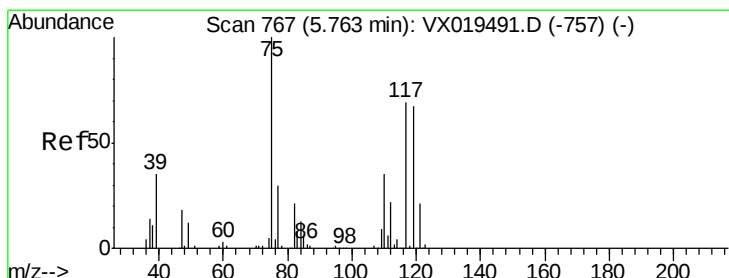
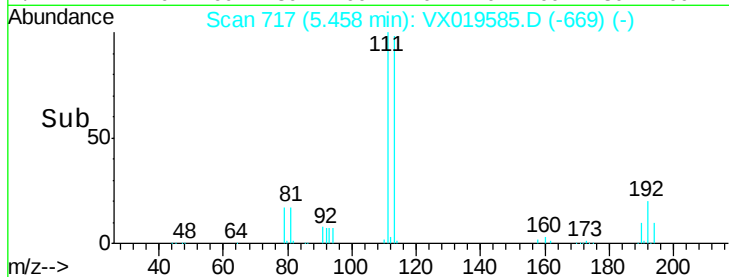
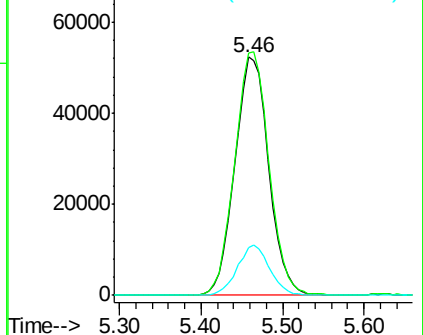
192 20.2 16.2 24.2



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: 4.936 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

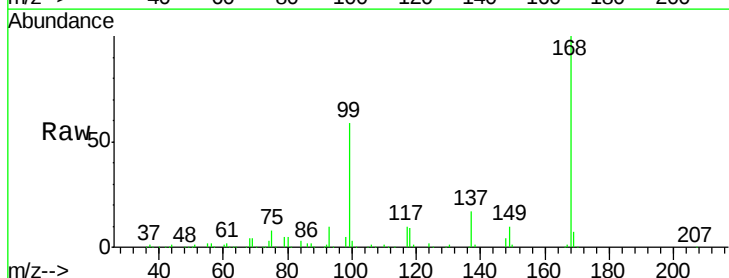
Tgt Ion: 75 Resp: 23548

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.3#

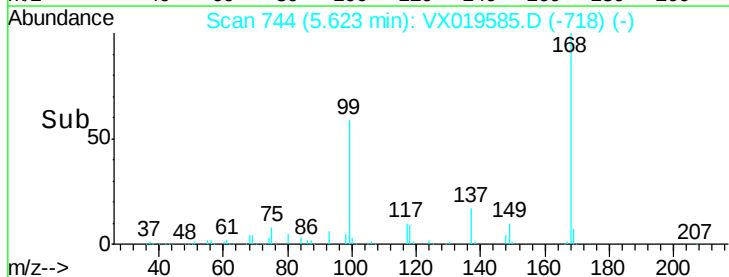
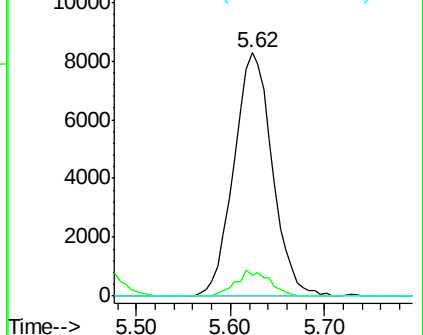
77 0.0 24.2 36.4#

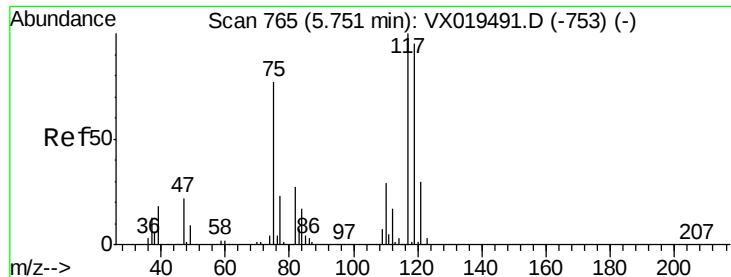


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.672 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-BOTTOM

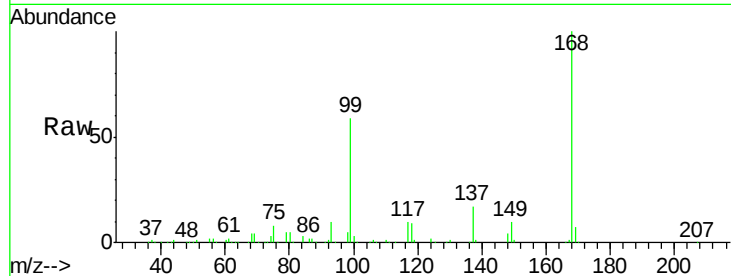
Tot Ion:117 Resp: 30808

Ion Ratio Lower Upper

117 100

119 5.6 75.9 113.9#

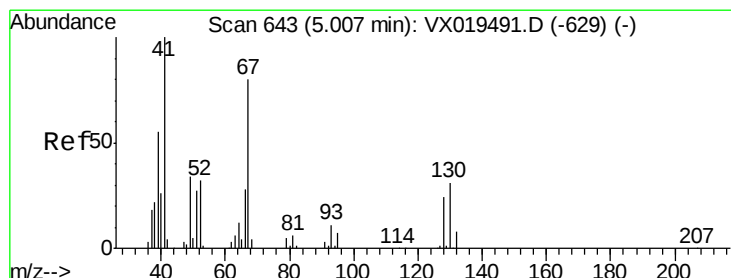
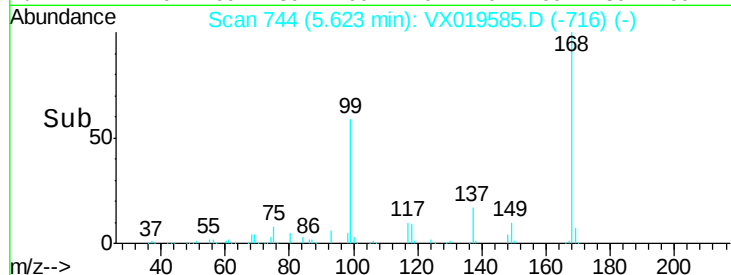
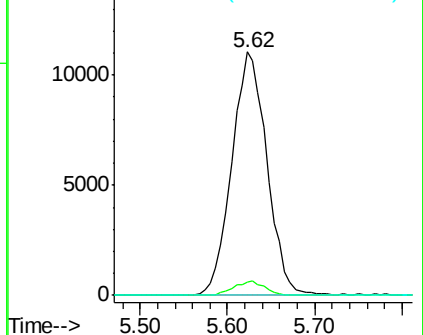
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 0.418 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.11 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Tgt Ion: 41 Resp: 1033

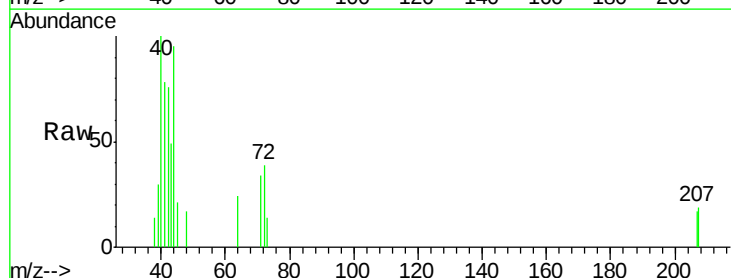
Ion Ratio Lower Upper

41 100

39 52.4 43.3 64.9

67 0.0 66.0 99.0#

52 0.0 25.4 38.2#

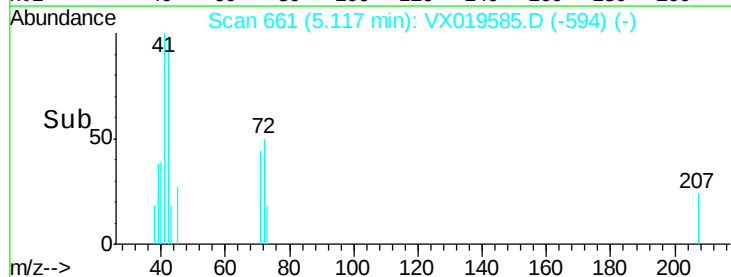
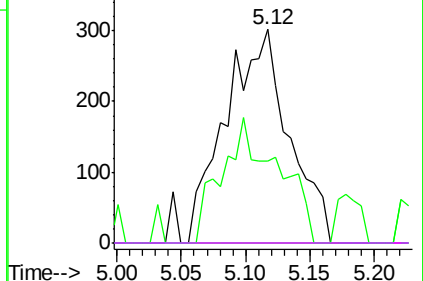


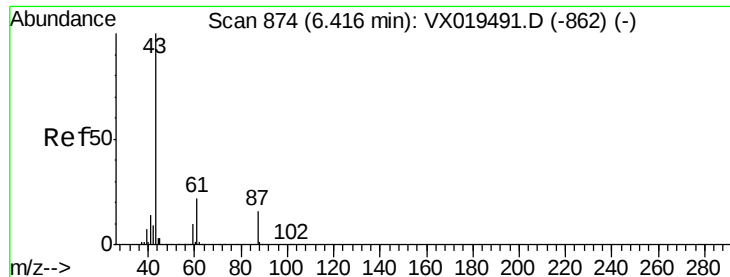
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 2.712 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-BOTTOM

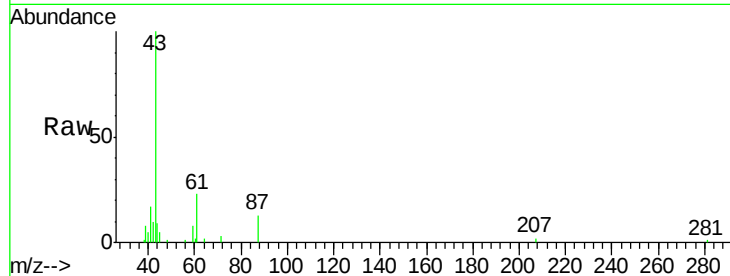
Tot Ion: 43 Resp: 20417

Ion Ratio Lower Upper

43 100

61 22.8 18.2 27.2

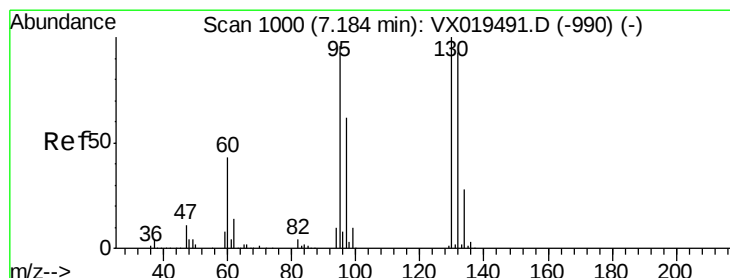
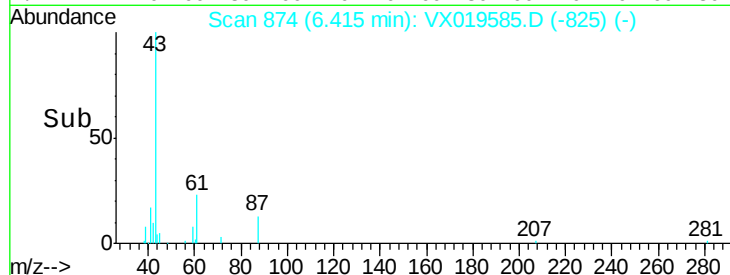
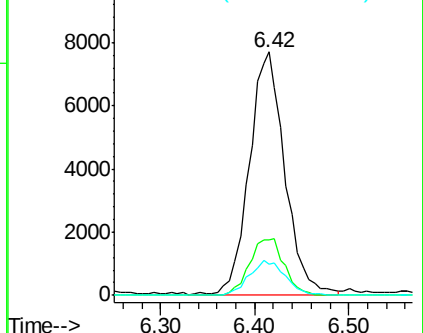
87 14.3 12.6 18.8



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



#44

Trichloroethene

Concen: 0.514 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019585.D

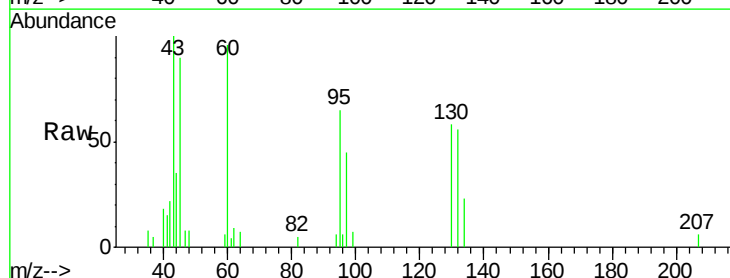
Acq: 24 Nov 2020 05:28

Tgt Ion: 130 Resp: 1975

Ion Ratio Lower Upper

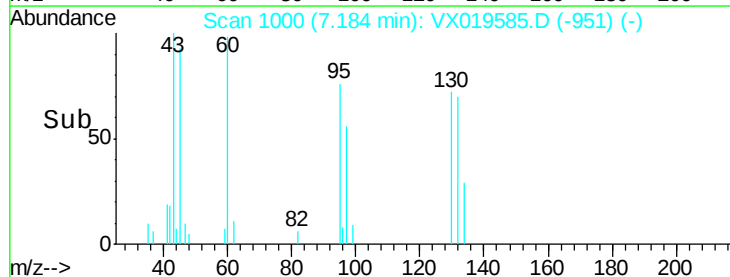
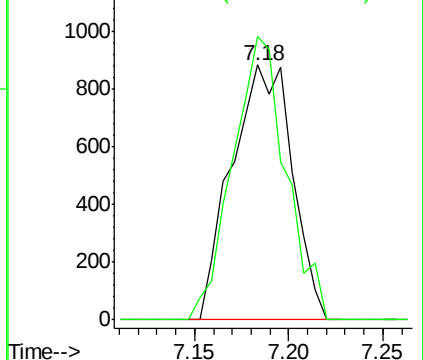
130 100

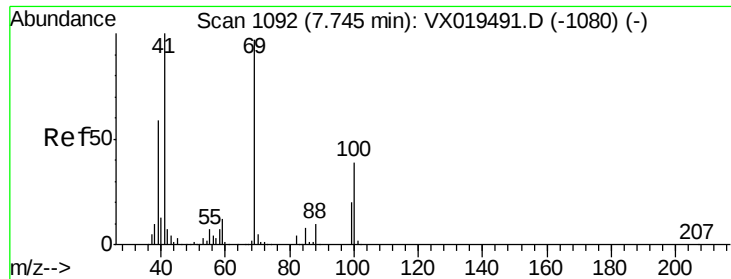
95 111.1 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

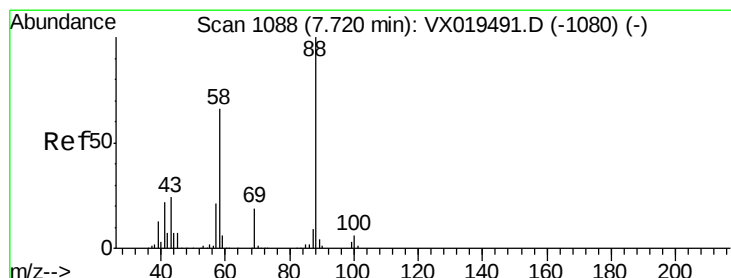
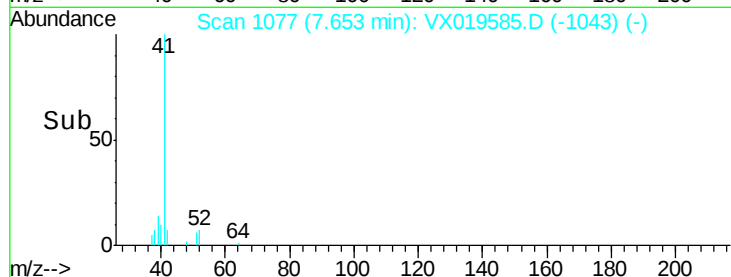
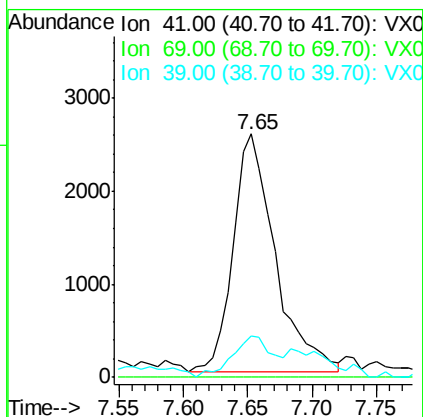
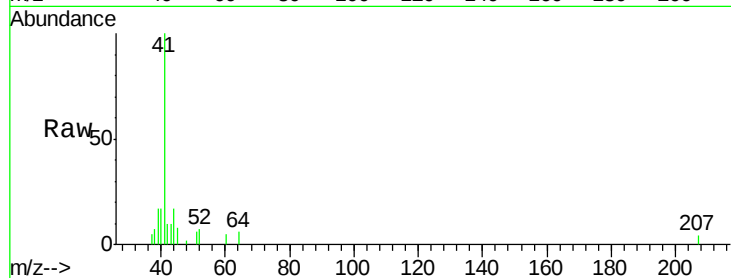




#48
Methvl methacrylate
Concen: 1.640 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

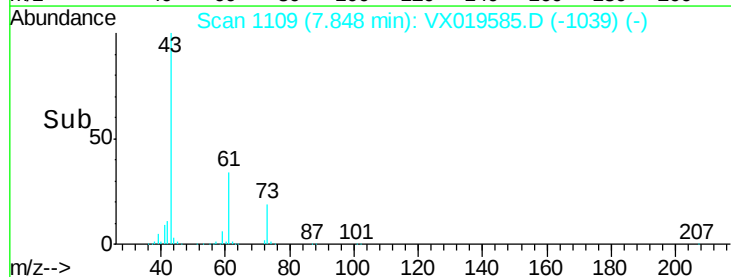
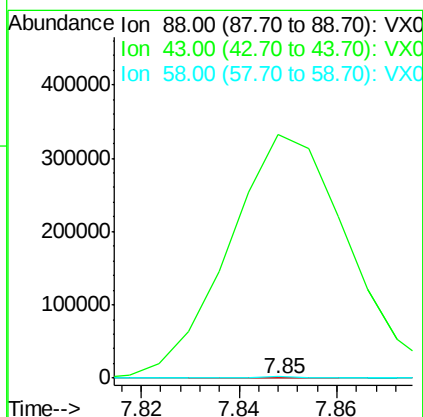
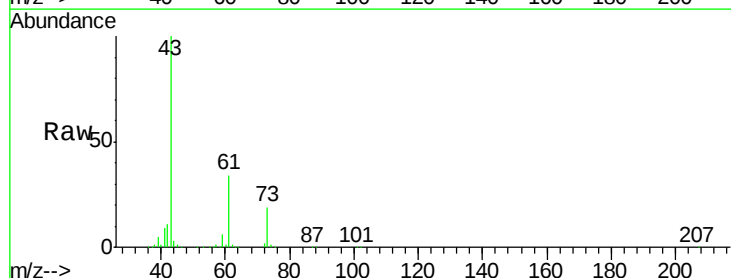
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-BOTTOM

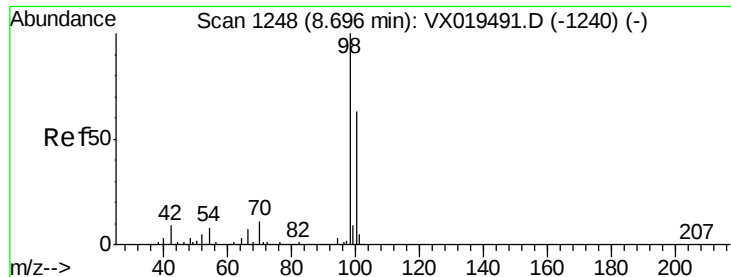
Tot Ion: 41 Resp: 5782
Ion Ratio Lower Upper
41 100
69 0.0 77.0 115.6#
39 16.7 45.6 68.4#



#49
1,4-Dioxane
Concen: 0.787 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.13 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 915827.0 23.8 35.6#
58 4593.7 54.2 81.2#





#50

Toluene-d8

Concen: 49.318 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

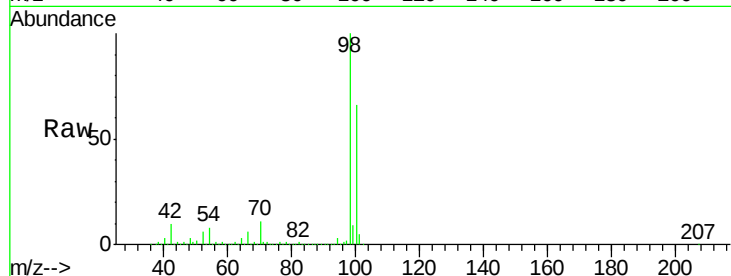
TR5-2-BOTTOM

Tot Ion: 98 Resp: 612109

Ion Ratio Lower Upper

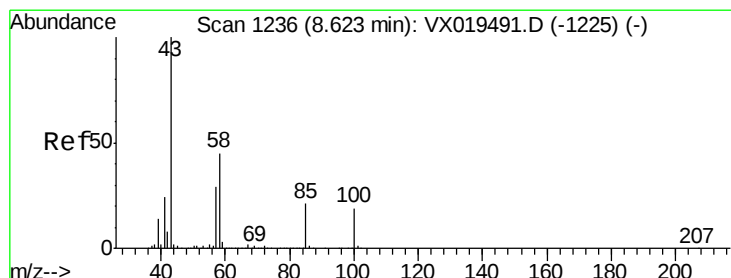
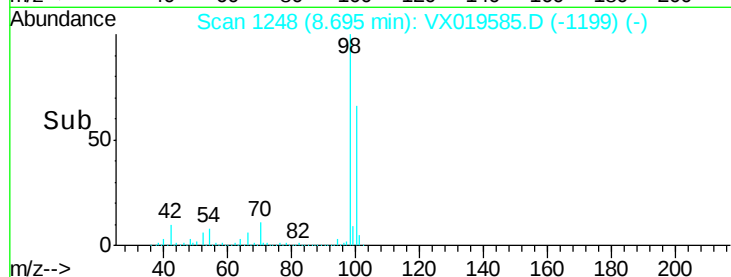
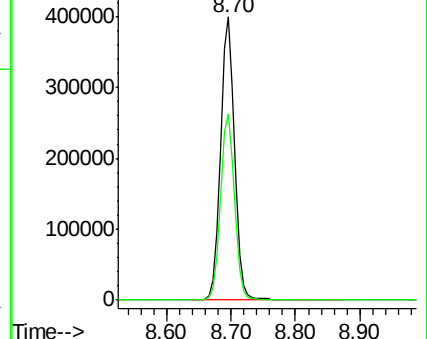
98 100

100 66.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 17.525 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019585.D

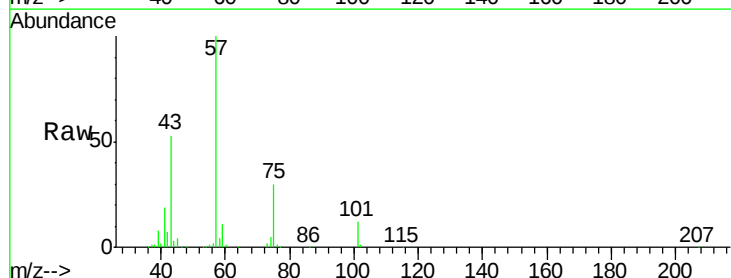
Acq: 24 Nov 2020 05:28

Tgt Ion: 43 Resp: 76933

Ion Ratio Lower Upper

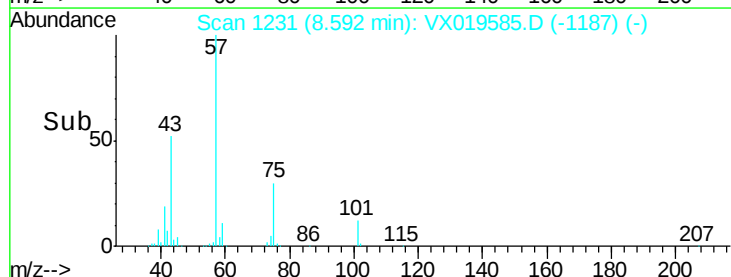
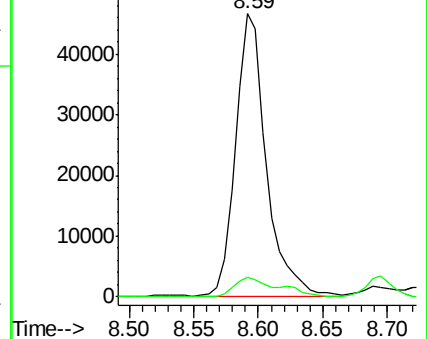
43 100

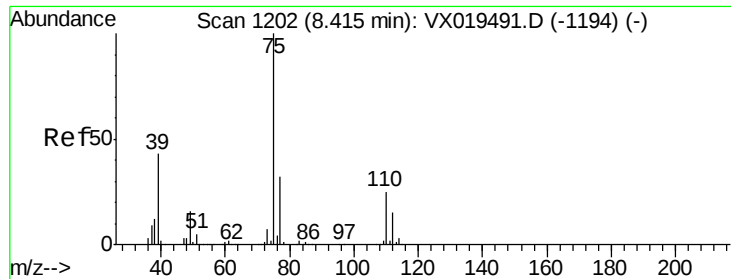
58 10.0 35.1 52.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

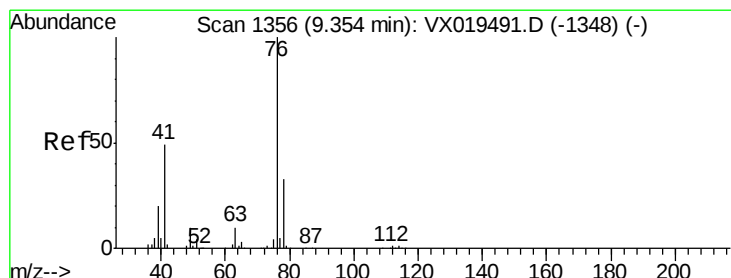
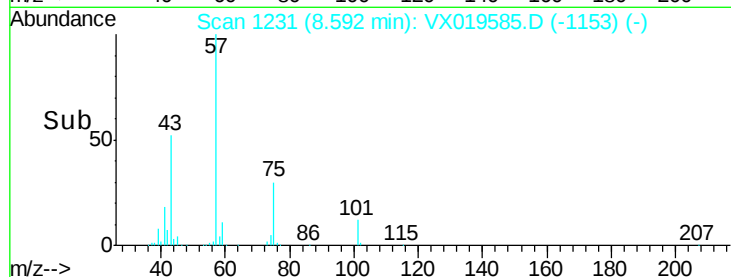
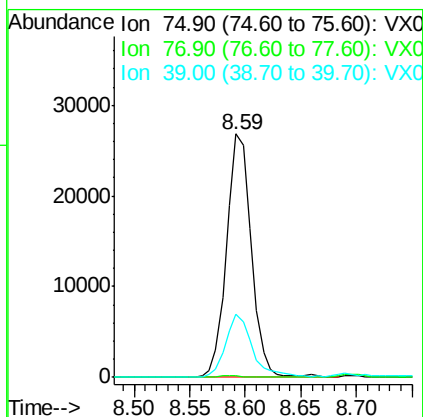
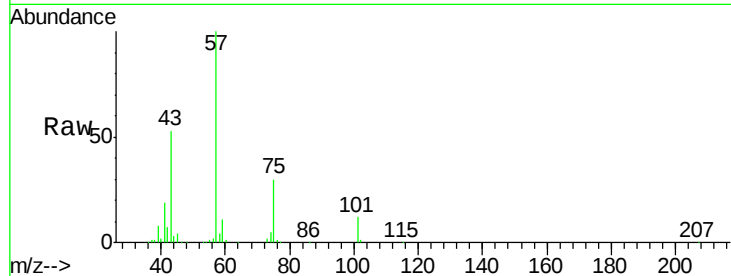




#54
 cis-1,3-Dichloropropene
 Concen: 7.202 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019585.D
 Acq: 24 Nov 2020 05:28

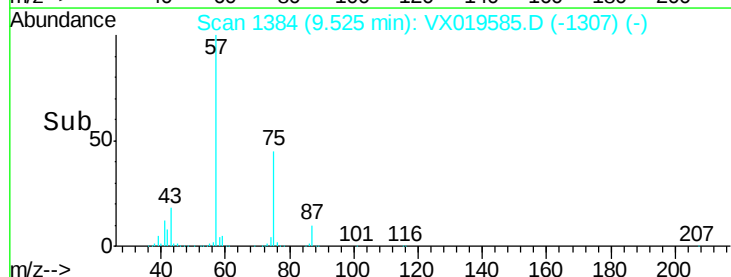
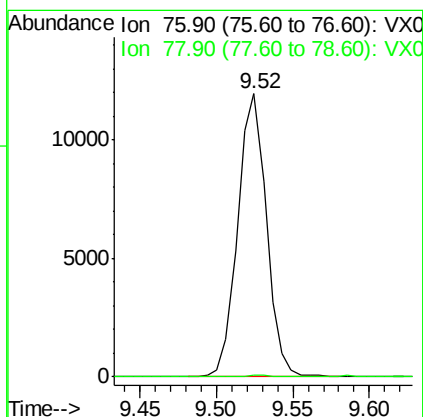
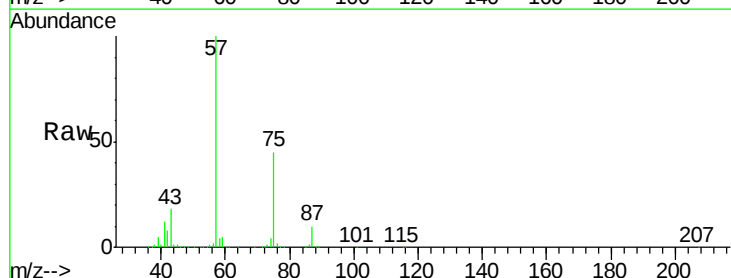
Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-2-BOTTOM

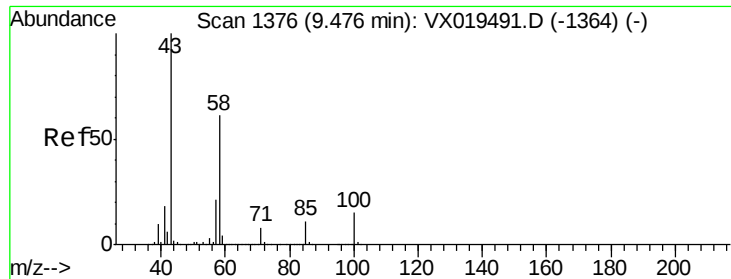
Tot Ion: 75 Resp: 41362
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.8 38.6#
 39 26.1 34.6 51.8#



#57
 1,3-Dichloropropane
 Concen: 2.542 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019585.D
 Acq: 24 Nov 2020 05:28

Tgt Ion: 76 Resp: 15544
 Ion Ratio Lower Upper
 76 100
 78 0.3 25.7 38.5#

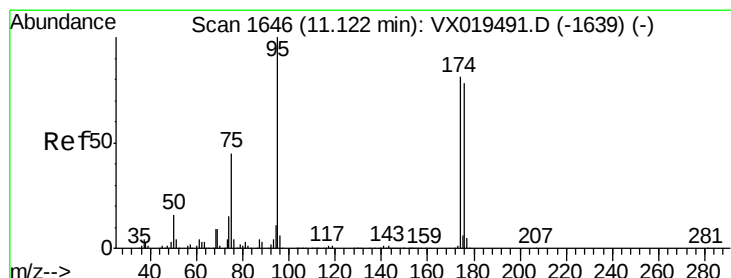
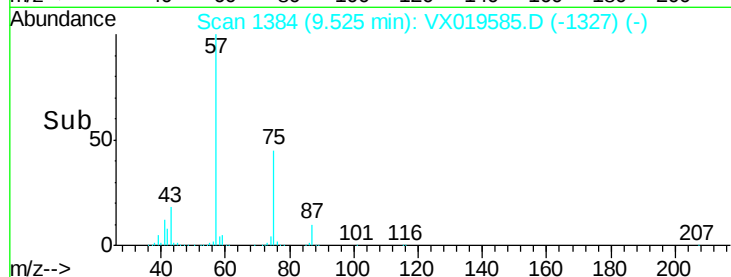
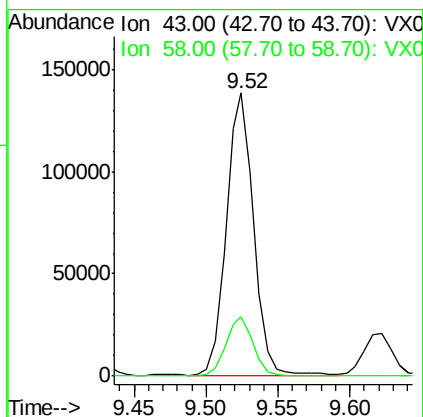
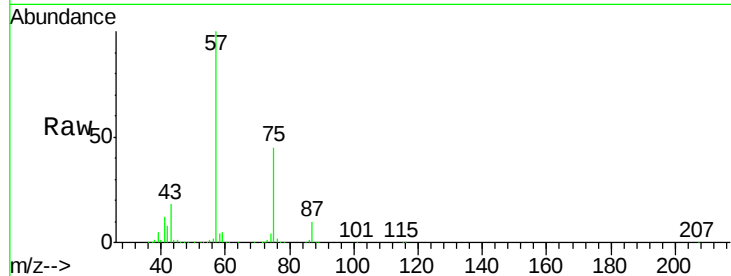




#59
2-Hexanone
Concen: 54.871 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

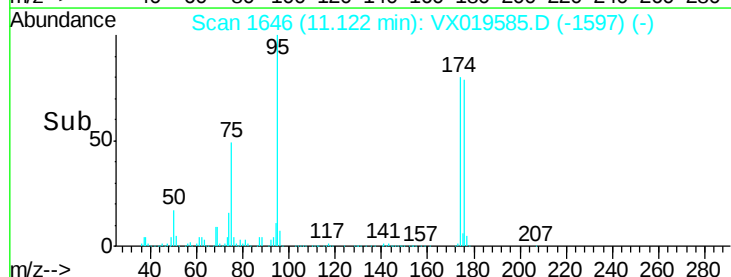
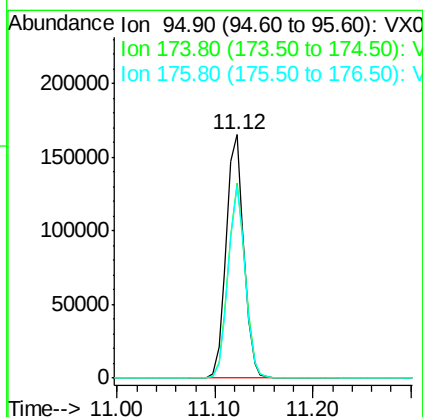
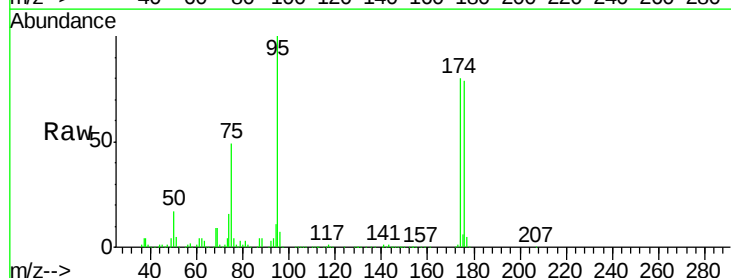
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-BOTTOM

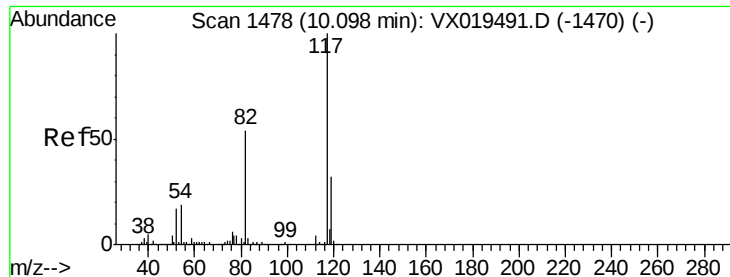
Tot Ion: 43 Resp: 182688
Ion Ratio Lower Upper
43 100
58 20.9 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 46.300 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

Tgt Ion: 95 Resp: 206749
Ion Ratio Lower Upper
95 100
174 78.1 0.0 156.2
176 76.5 0.0 151.4

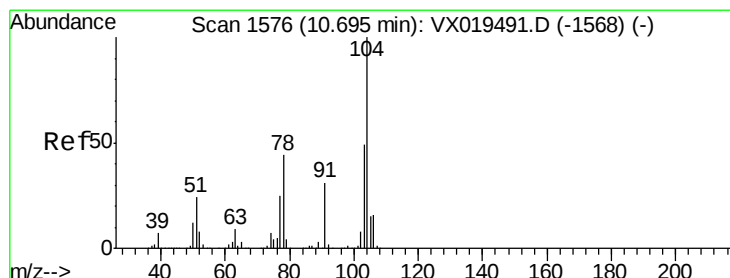
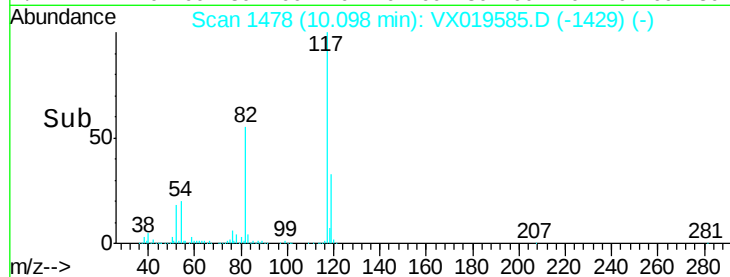
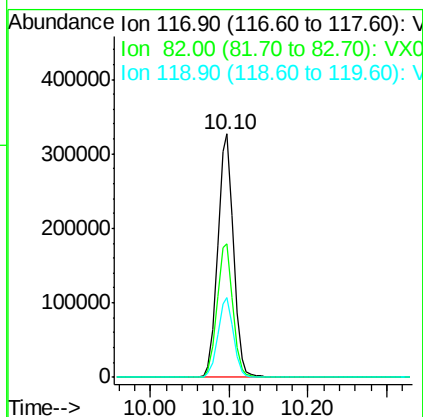
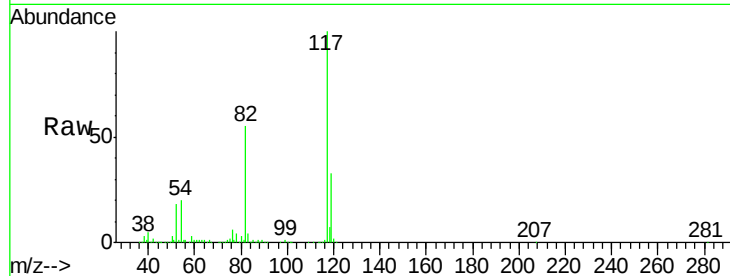




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

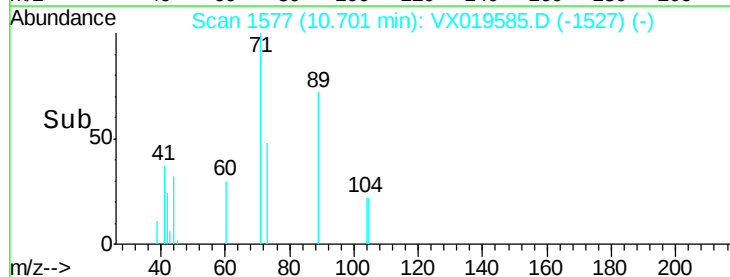
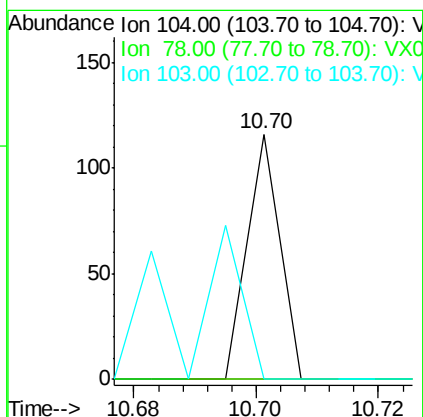
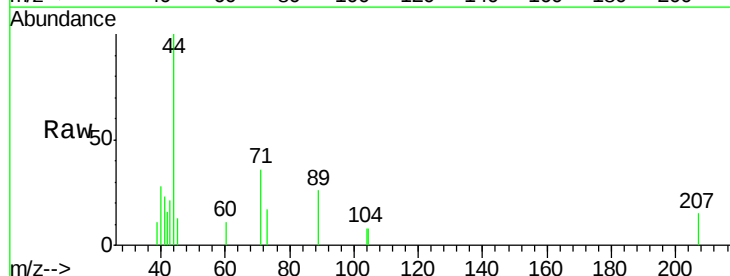
Instrument :
MSVOA_X
ClientSampleId :
TR5-2-BOTTOM

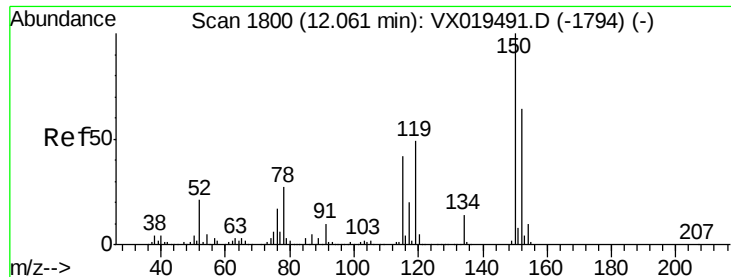
Tot Ion:117 Resp: 451290
Ion Ratio Lower Upper
117 100
82 54.6 43.0 64.4
119 32.8 25.6 38.4



#70
Styrene
Concen: 1.650 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019585.D
Acq: 24 Nov 2020 05:28

Tgt Ion:104 Resp: 42
Ion Ratio Lower Upper
104 100
78 0.0 39.5 59.3#
103 52.4 43.6 65.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampleId :

TR5-2-BOTTOM

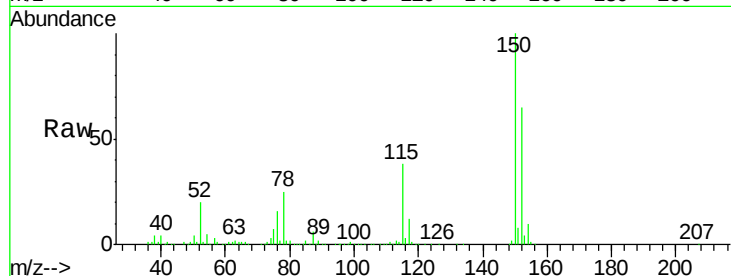
Tot Ion:152 Resp: 192816

Ion Ratio Lower Upper

152 100

115 59.2 41.8 125.4

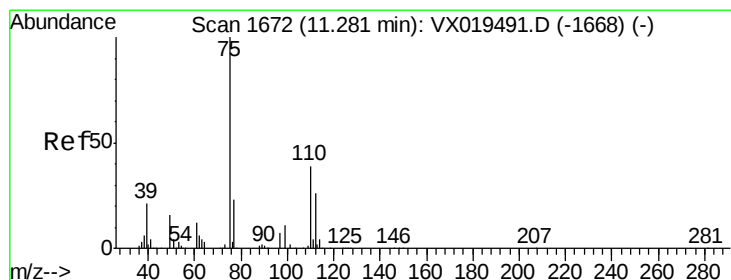
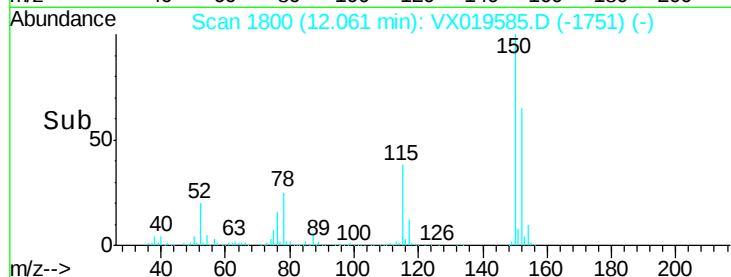
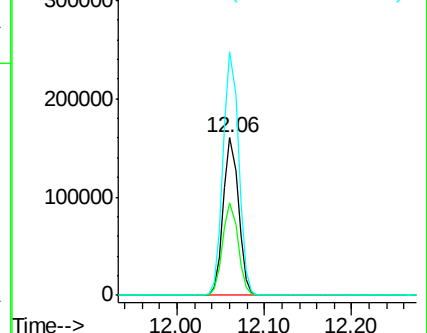
150 157.5 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 24.298 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019585.D

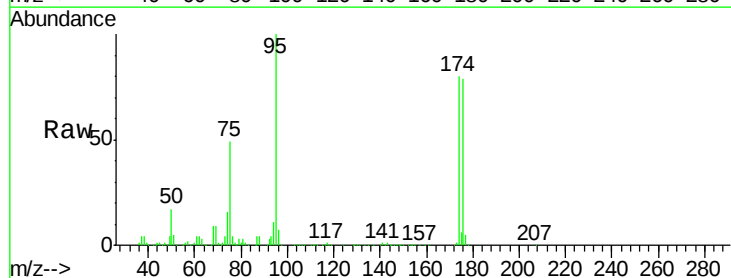
Acq: 24 Nov 2020 05:28

Tgt Ion: 75 Resp: 102243

Ion Ratio Lower Upper

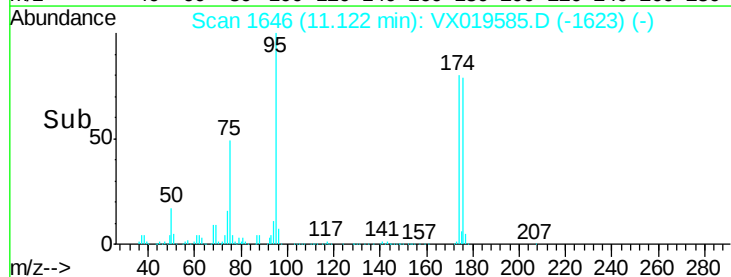
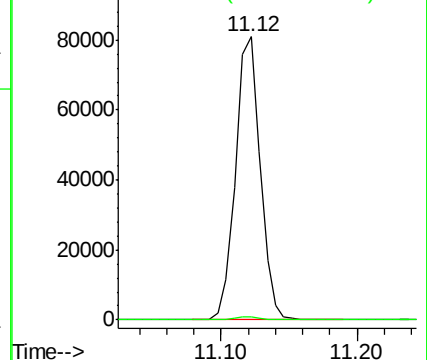
75 100

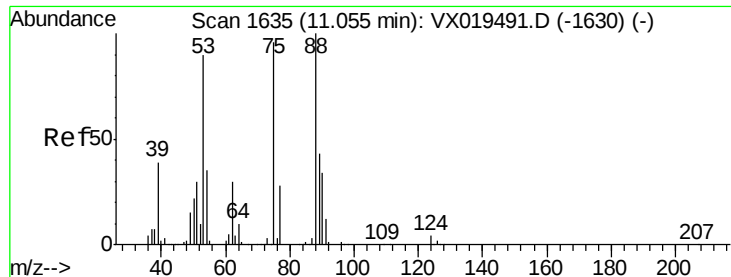
77 1.2 20.0 60.0#



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: 64.304 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

Instrument :

MSVOA_X

ClientSampled :

TR5-2-BOTTOM

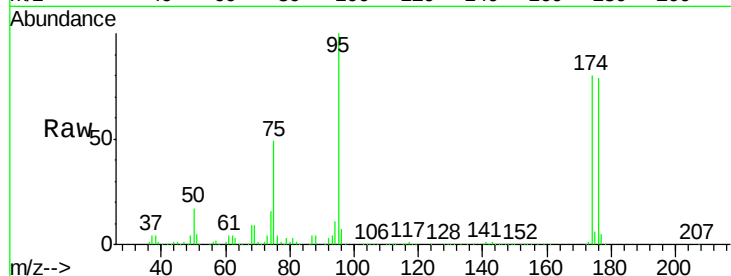
Tot Ion: 75 Resp: 102243

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

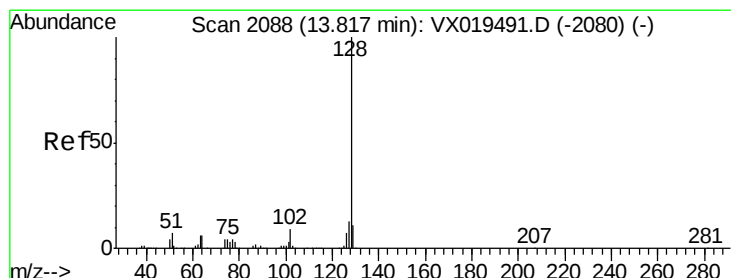
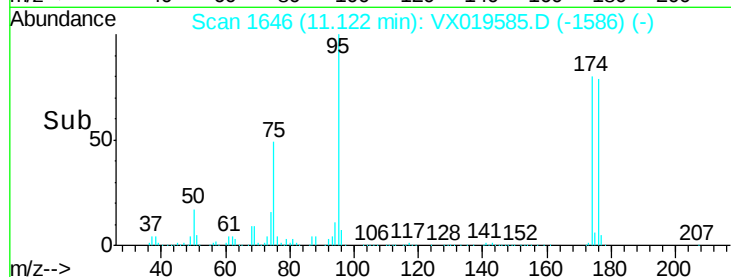
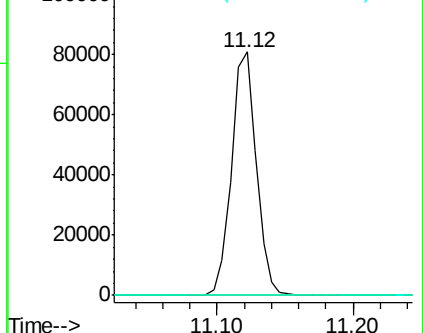
89 0.0 37.3 55.9#



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



#95

Naphthalene

Concen: 2.197 ug/l

RT: 13.81 min Scan# 2087

Delta R.T. -0.01 min

Lab File: VX019585.D

Acq: 24 Nov 2020 05:28

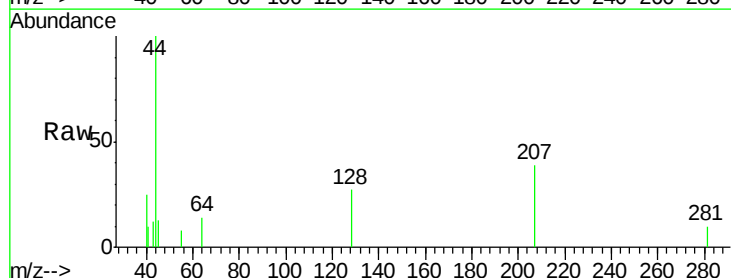
Tgt Ion:128 Resp: 285

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

