

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019519.D
 Acq On : 21 Nov 2020 02:00
 Operator : JC/MD
 Sample : L4779-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1641

Quant Time: Nov 21 05:34:38 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	259209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	424787	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	366916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	167057	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	158624	47.20	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.40%
35) Dibromofluoromethane	5.46	113	126649	47.50	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.00%
50) Toluene-d8	8.70	98	497365	48.00	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.00%
62) 4-Bromofluorobenzene	11.12	95	176789	47.42	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	94.84%

Target Compounds

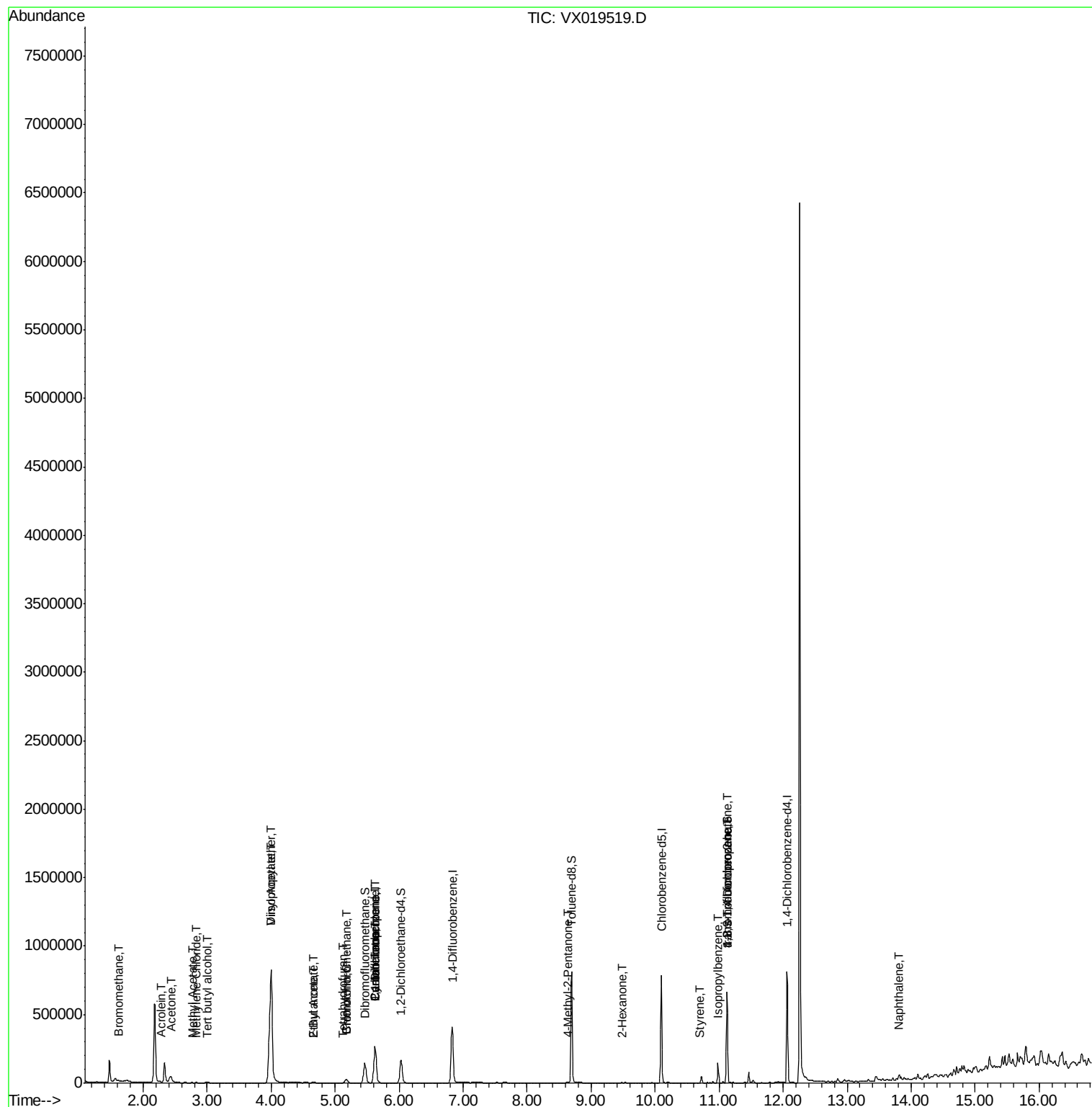
					Qvalue
5) Bromomethane	1.62	94	286	0.242	ug/l 97
6) Chloroethane	1.68	64	31	Below Cal	# 62
11) Tert butyl alcohol	3.00	59	4687	7.369	ug/l # 73
13) Acrolein	2.29	56	663	1.551	ug/l 83
16) Acetone	2.44	43	26803	20.622	ug/l # 1
18) Methyl Acetate	2.77	43	3360	1.675	ug/l 98
20) Methylene Chloride	2.83	84	1458	0.449	ug/l 96
22) Diisopropyl ether	4.00	45	66932	8.026	ug/l # 1
23) Vinyl Acetate	4.00	43	156244	22.335	ug/l # 68
25) 2-Butanone	4.66	43	6658	3.410	ug/l # 86
28) Bromochloromethane	5.17	49	2341	0.960	ug/l # 8
29) Tetrahydrofuran	5.11	42	942	0.756	ug/l # 34
30) Chloroform	5.17	83	33946	6.364	ug/l 99
31) Cyclohexane	5.62	56	5345	1.223	ug/l # 1
36) 1,1-Dichloropropene	5.62	75	20040	5.032	ug/l # 50
37) Ethyl Acetate	4.66	43	6602	1.766	ug/l # 65
38) Carbon Tetrachloride	5.62	117	25358	6.579	ug/l # 17
51) 4-Methyl-2-Pentanone	8.63	43	4990	1.362	ug/l 93
59) 2-Hexanone	9.48	43	1732	0.623	ug/l 92
70) Styrene	10.69	104	263	1.675	ug/l # 84
73) Isopropylbenzene	10.99	105	5425	0.469	ug/l # 64
76) 1,2,3-Trichloropropane	11.12	75	87834	24.092	ug/l # 37
81) trans-1,4-Dichloro-2-buten	11.12	75	87834	63.795	ug/l # 12
95) Naphthalene	13.82	128	15711	3.398	ug/l # 95

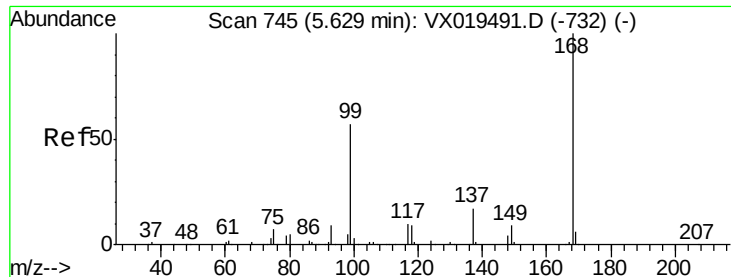
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112120\
Data File : VX019519.D
Acq On : 21 Nov 2020 02:00
Operator : JC/MD
Sample : L4779-02 10X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1641

Quant Time: Nov 21 05:34:38 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: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampled :

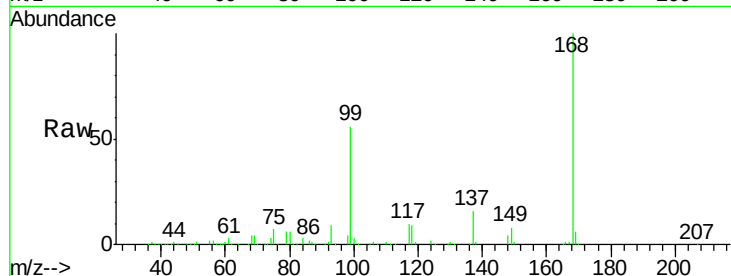
1641

Tot Ion:168 Resp: 259209

Ion Ratio Lower Upper

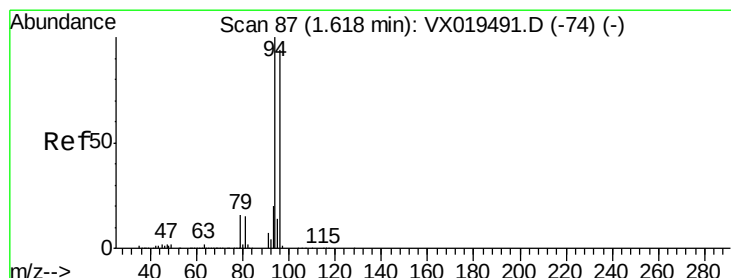
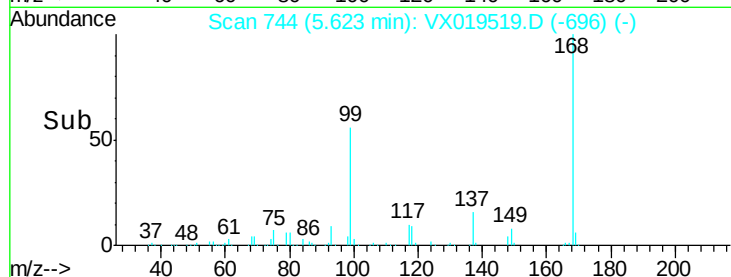
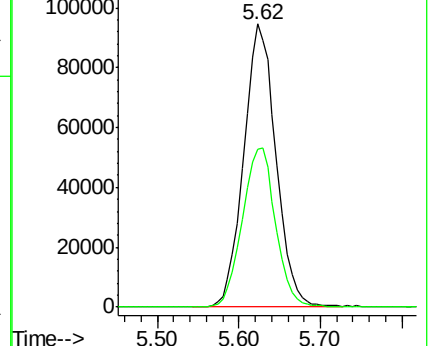
168 100

99 55.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.242 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019519.D

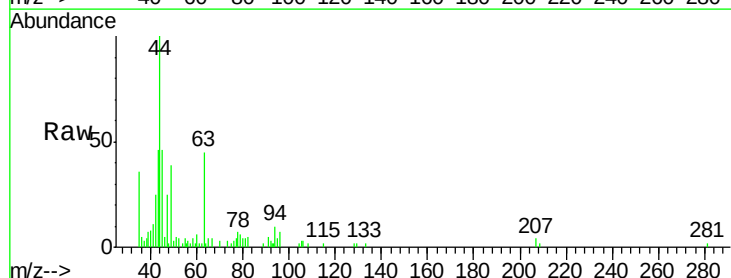
Acq: 21 Nov 2020 02:00

Tgt Ion: 94 Resp: 286

Ion Ratio Lower Upper

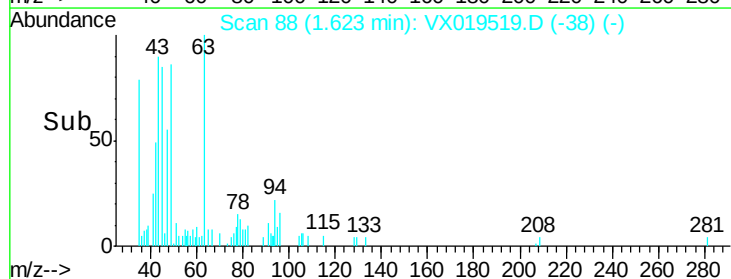
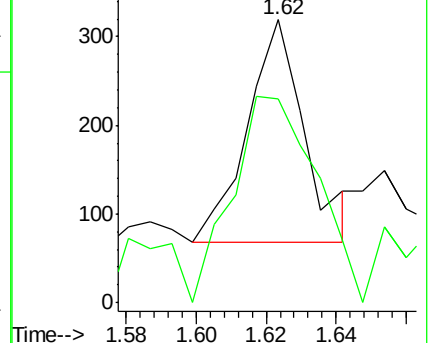
94 100

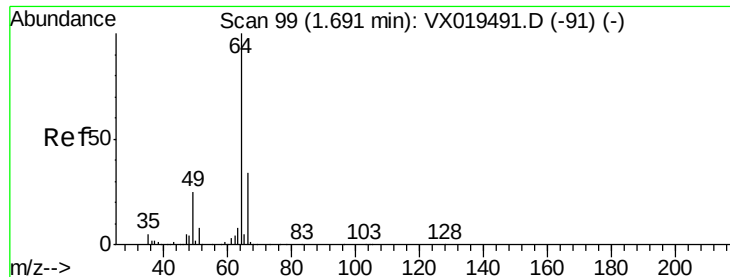
96 91.6 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 98

Delta R.T. -0.01 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampled :

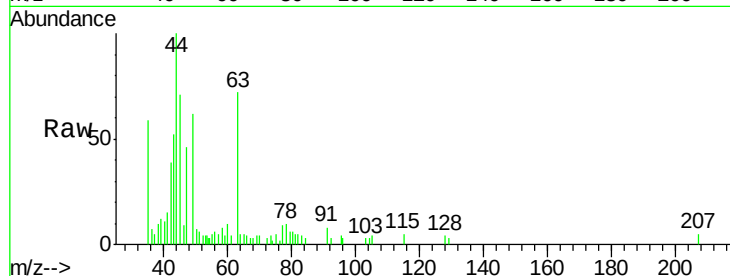
1641

Tot Ion: 64 Resp: 31

Ion Ratio Lower Upper

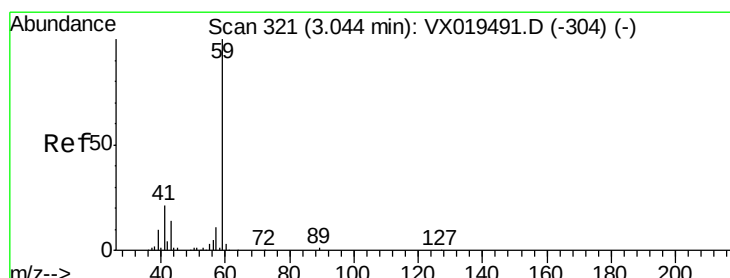
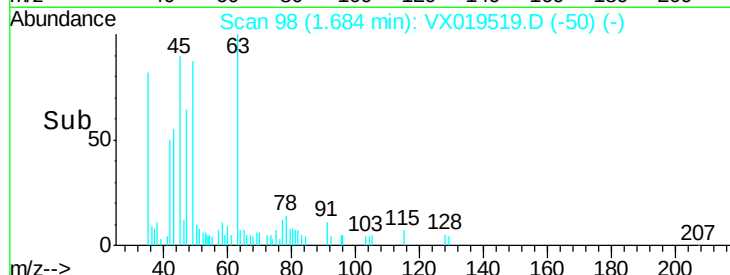
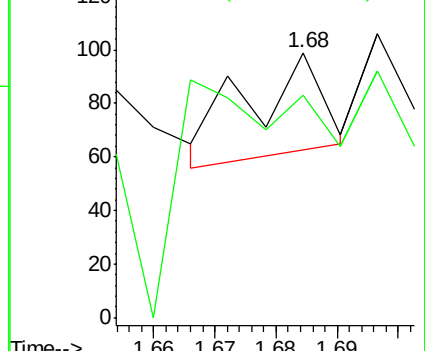
64 100

66 55.9 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: 7.369 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.04 min

Lab File: VX019519.D

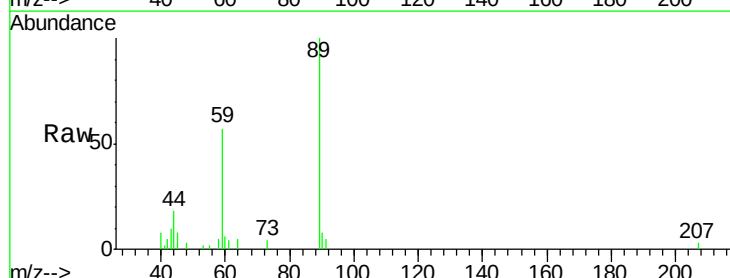
Acq: 21 Nov 2020 02:00

Tgt Ion: 59 Resp: 4687

Ion Ratio Lower Upper

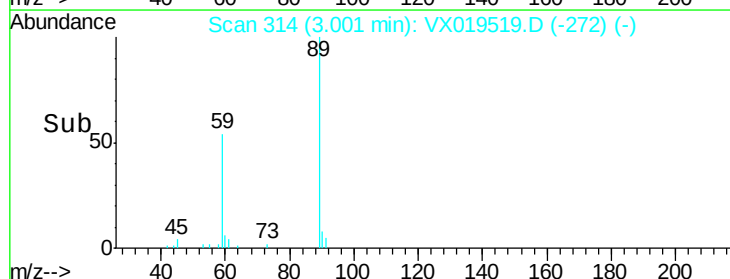
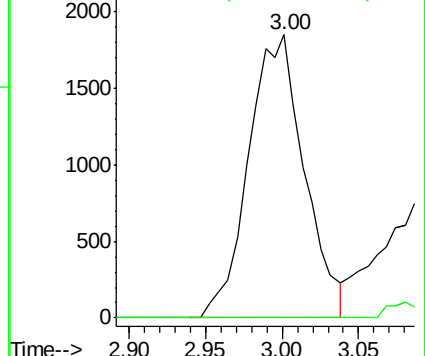
59 100

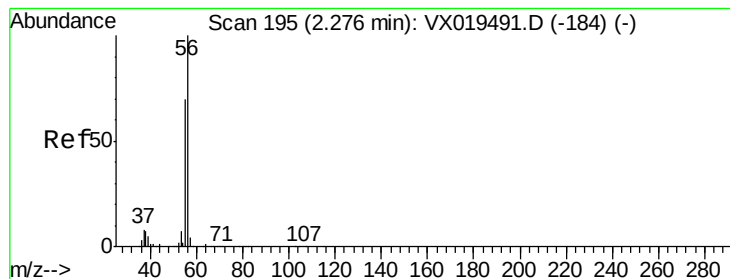
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.551 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampleId :

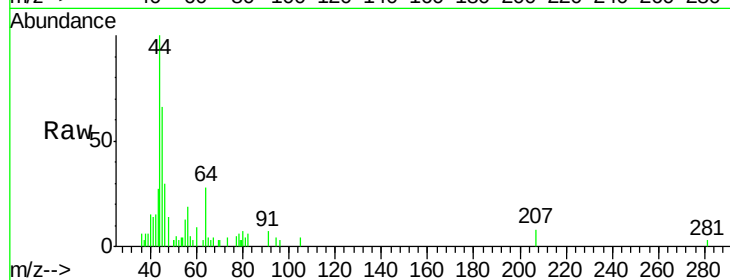
1641

Tot Ion: 56 Resp: 663

Ion Ratio Lower Upper

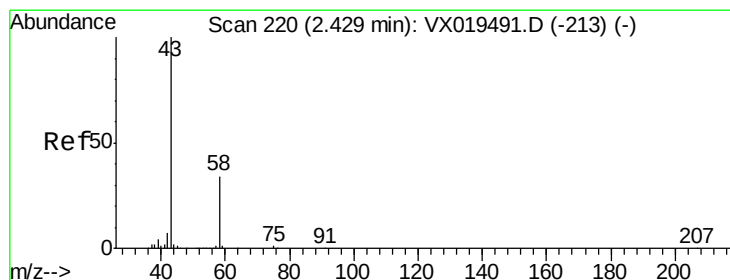
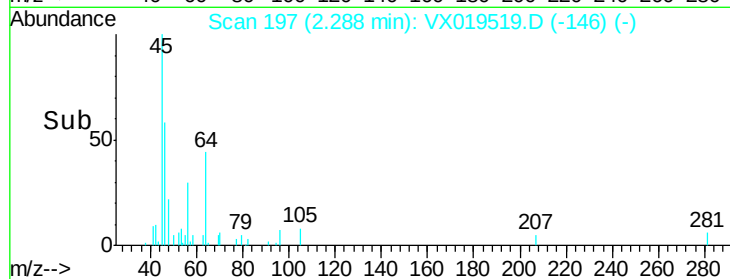
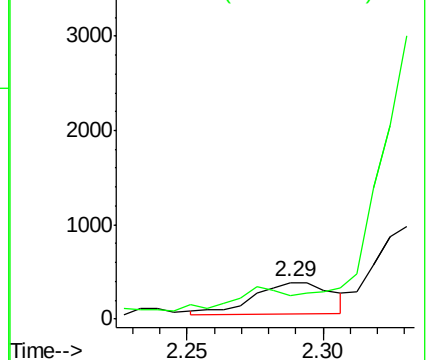
56 100

55 55.7 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: 20.622 ug/l

RT: 2.44 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX019519.D

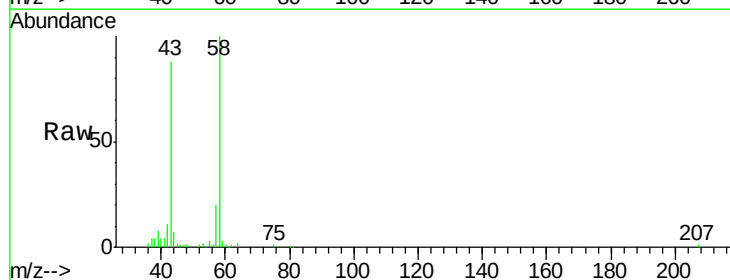
Acq: 21 Nov 2020 02:00

Tgt Ion: 43 Resp: 26803

Ion Ratio Lower Upper

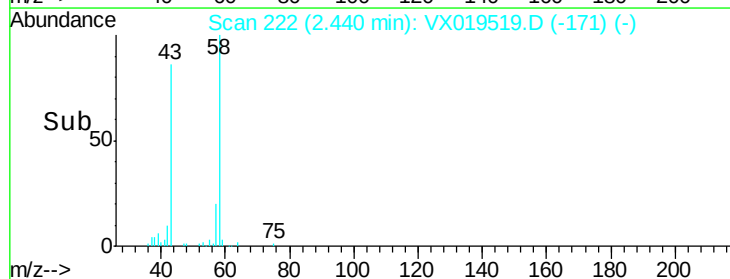
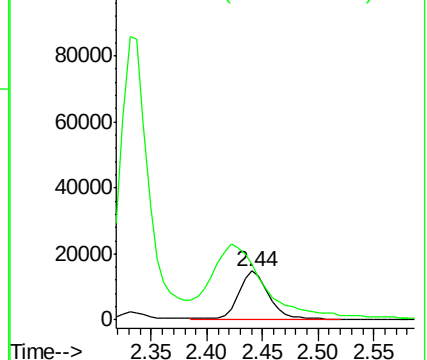
43 100

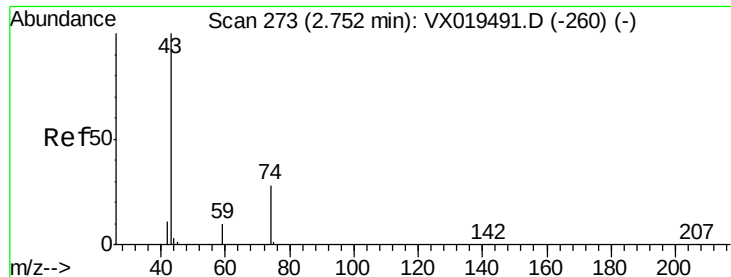
58 106.1 27.4 41.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

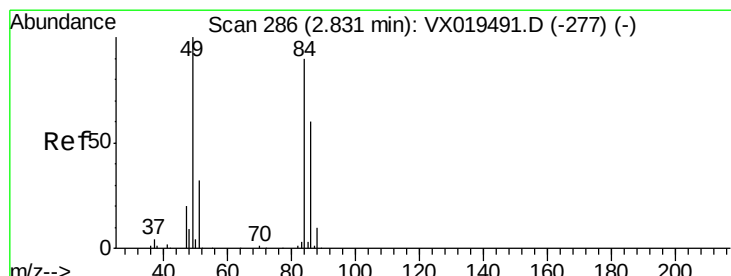
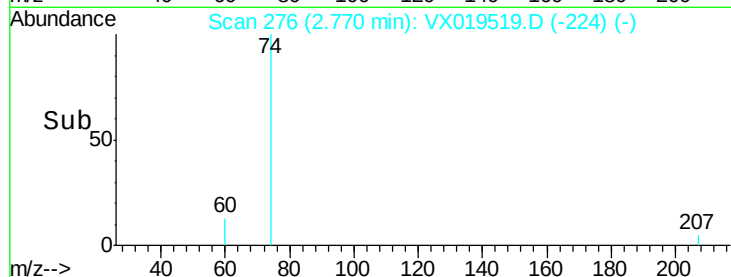
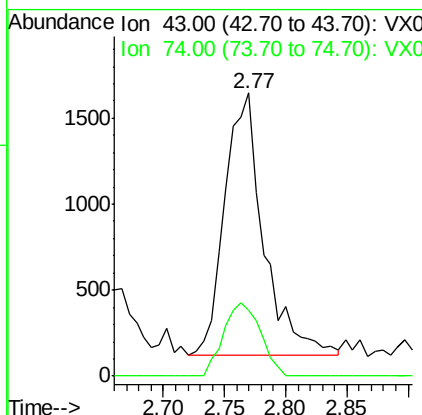
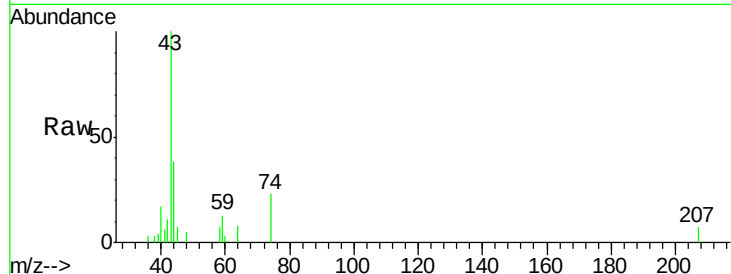




#18
Methyl Acetate
Concen: 1.675 ug/l
RT: 2.77 min Scan# 276
Delta R.T. 0.02 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

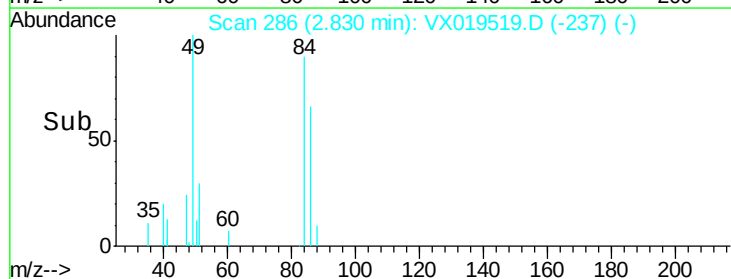
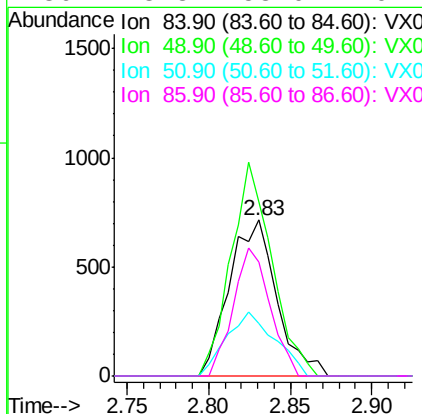
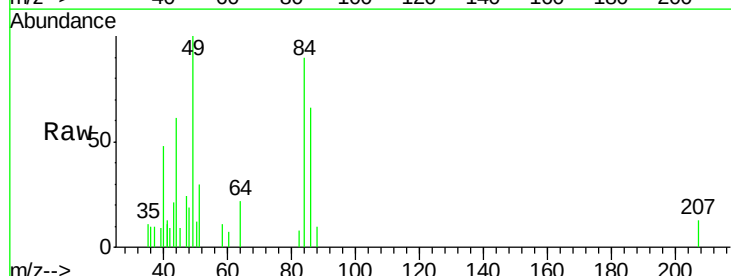
Instrument :
MSVOA_X
ClientSampleId :
1641

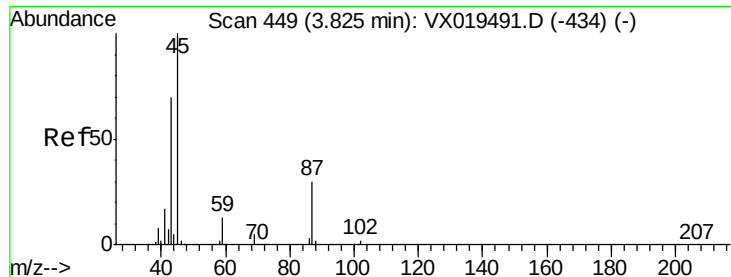
Tot Ion: 43 Resp: 3360
Ion Ratio Lower Upper
43 100
74 26.8 22.2 33.4



#20
Methylene Chloride
Concen: 0.449 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

Tgt Ion: 84 Resp: 1458
Ion Ratio Lower Upper
84 100
49 111.6 88.5 132.7
51 33.4 28.0 42.0
86 73.3 53.0 79.4





#22

Diisopropyl ether

Concen: 8.026 ug/l

RT: 4.00 min Scan# 478

Delta R.T. 0.18 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

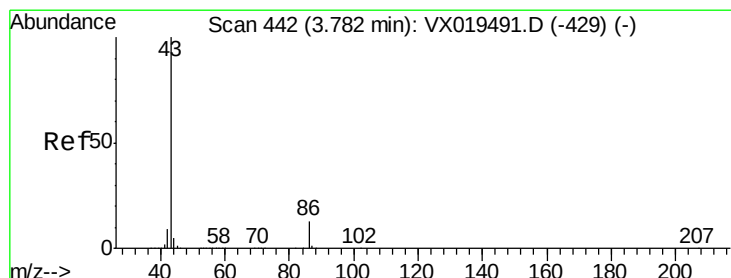
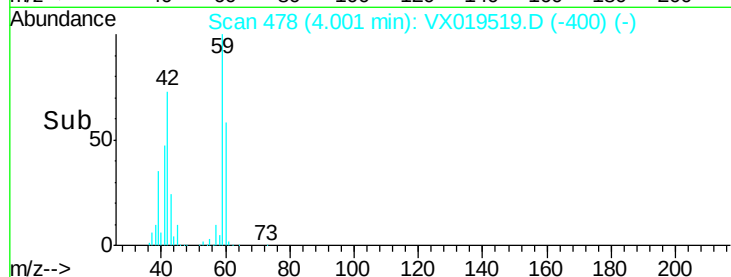
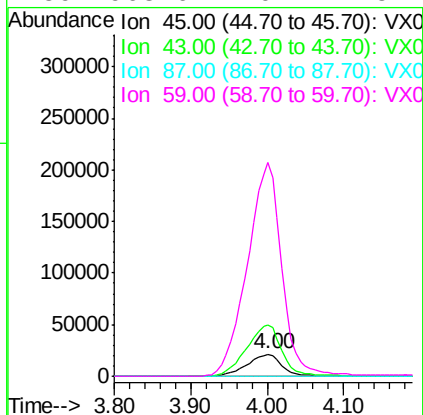
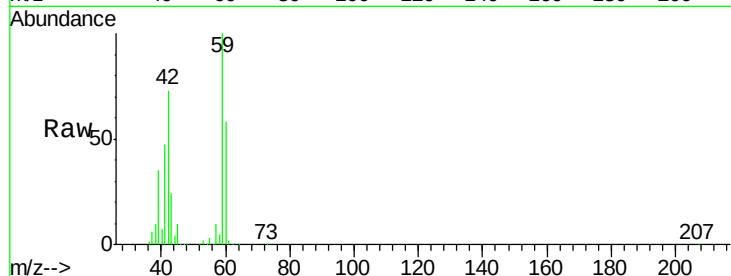
Instrument :

MSVOA_X

ClientSampleId :

1641

Tot Ion:	45	Resp:	66932
Ion	Ratio	Lower	Upper
45	100		
43	232.5	56.1	84.1#
87	0.0	24.2	36.2#
59	963.6	10.2	15.2#



#23

Vinyl Acetate

Concen: 22.335 ug/l

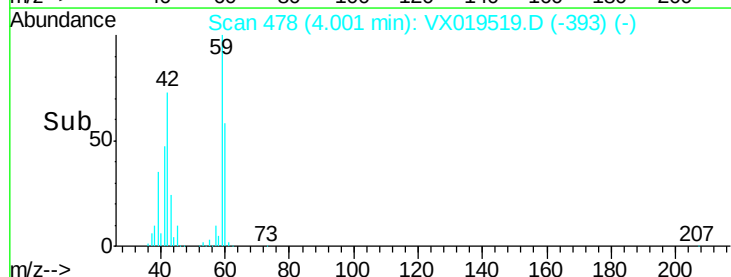
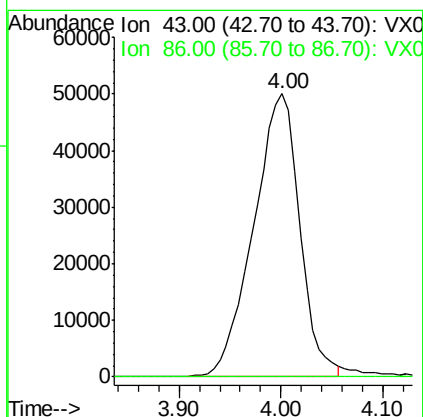
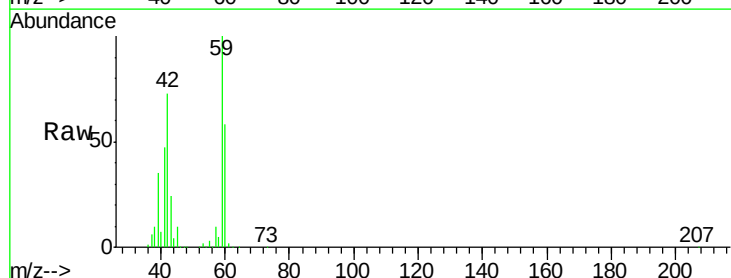
RT: 4.00 min Scan# 478

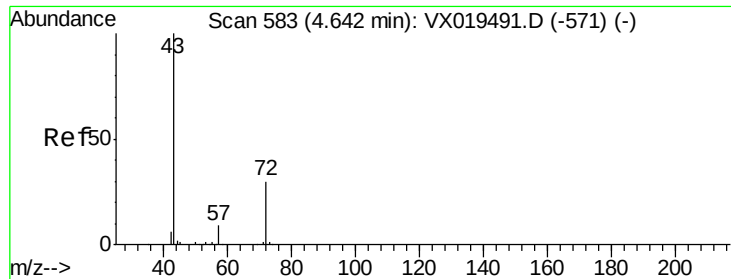
Delta R.T. 0.22 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Tgt Ion:	43	Resp:	156244
Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.2	15.2#





#25

2-Butanone

Concen: 3.410 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampled :

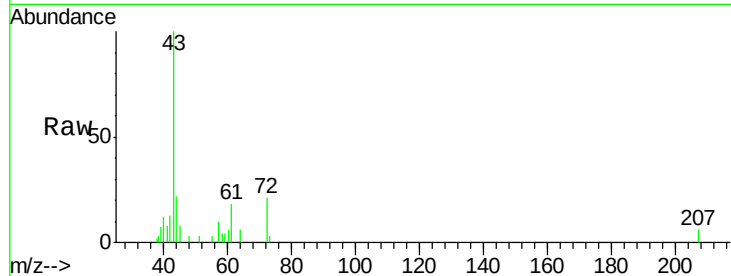
1641

Tot Ion: 43 Resp: 6658

Ion Ratio Lower Upper

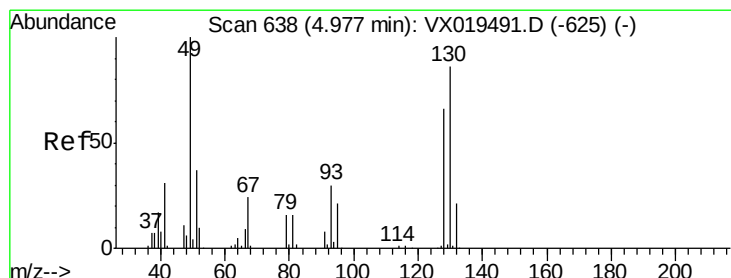
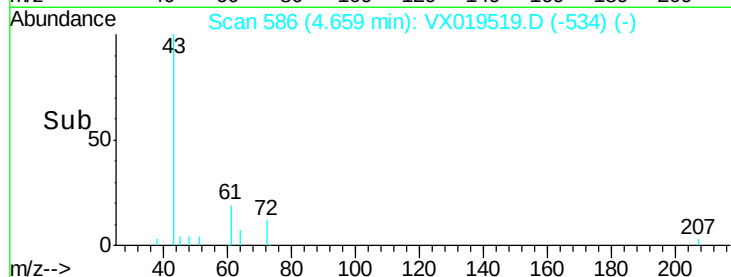
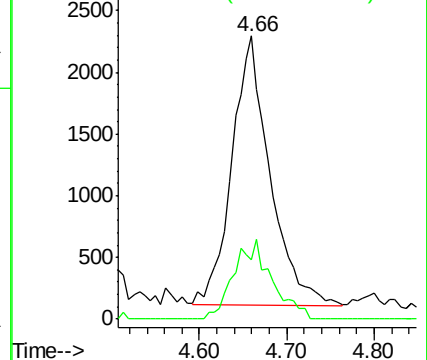
43 100

72 22.2 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 0.960 ug/l

RT: 5.17 min Scan# 670

Delta R.T. 0.19 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

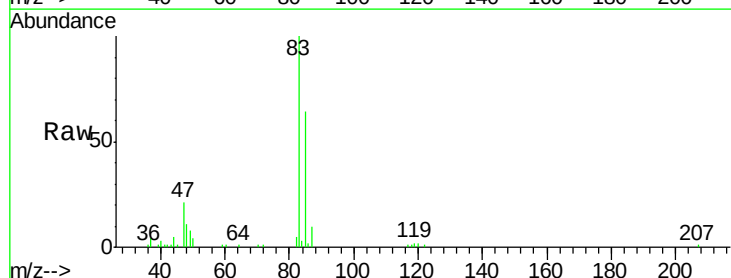
Tgt Ion: 49 Resp: 2341

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

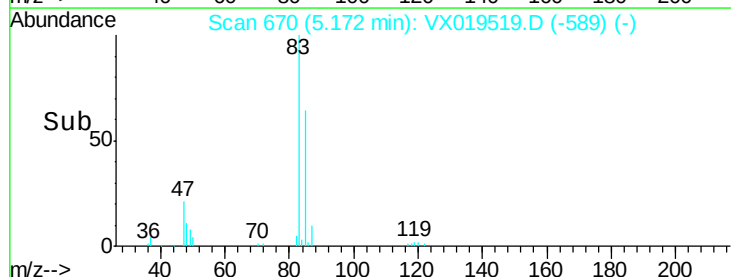
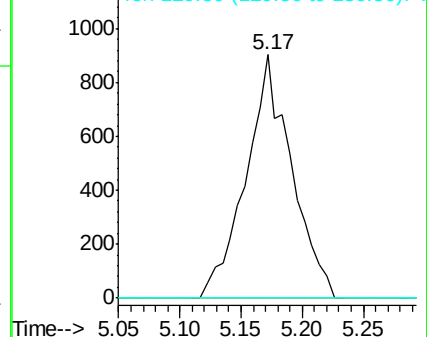
130 0.0 69.0 103.6#

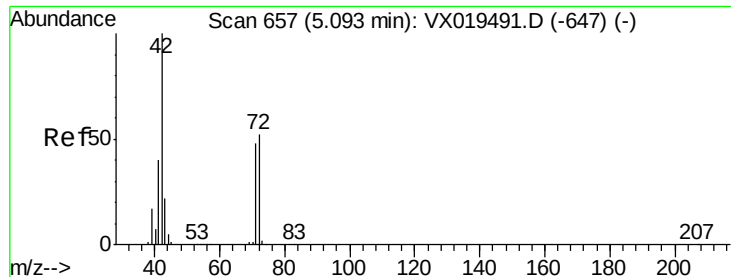


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

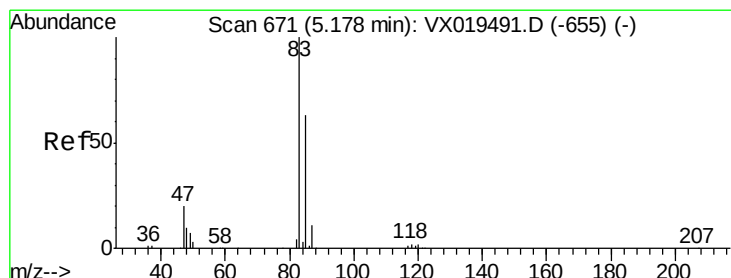
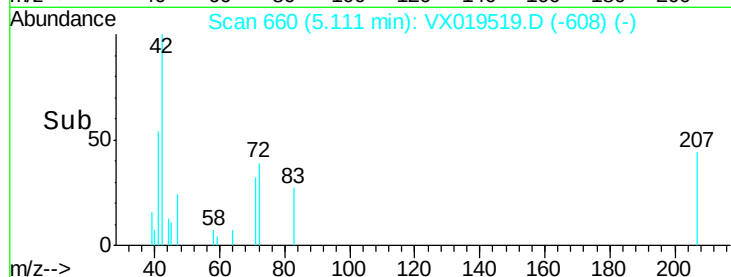
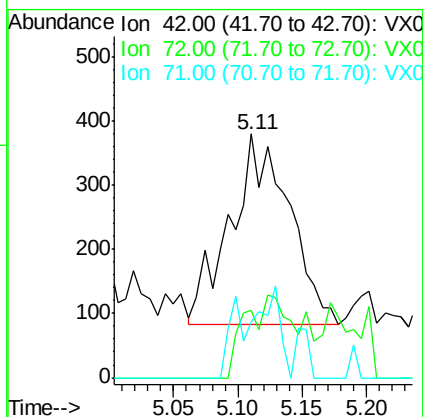
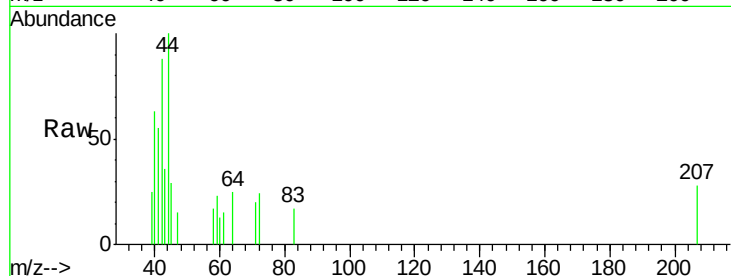




#29
Tetrahydrofuran
Concen: 0.756 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

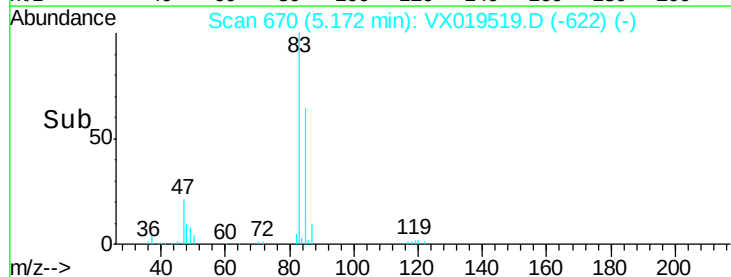
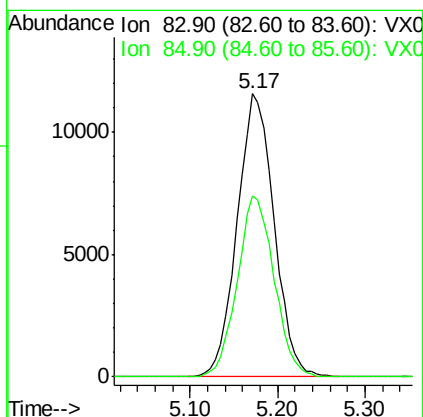
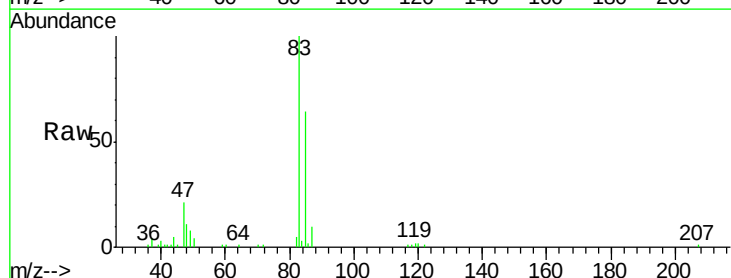
Instrument :
MSVOA_X
ClientSampled :
1641

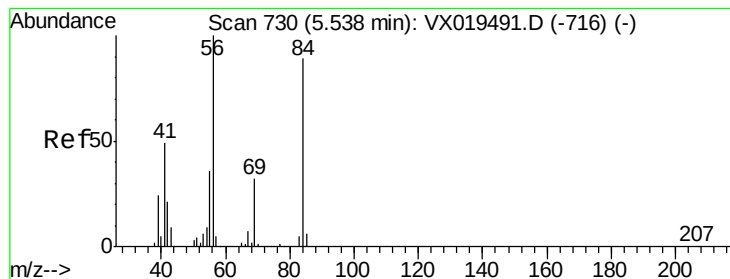
Tot Ion: 42 Resp: 942
Ion Ratio Lower Upper
42 100
72 0.0 42.6 63.8#
71 10.1 39.0 58.6#



#30
Chloroform
Concen: 6.364 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

Tgt Ion: 83 Resp: 33946
Ion Ratio Lower Upper
83 100
85 63.8 50.5 75.7





#31

Cyclohexane

Concen: 1.223 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampled :

1641

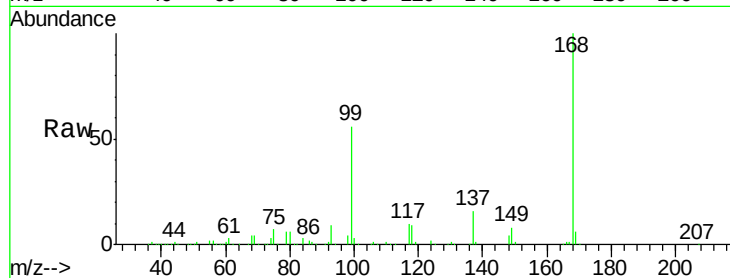
Tot Ion: 56 Resp: 5345

Ion Ratio Lower Upper

56 100

69 185.3 25.5 38.3#

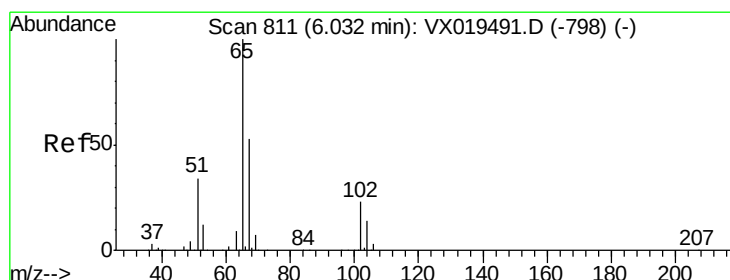
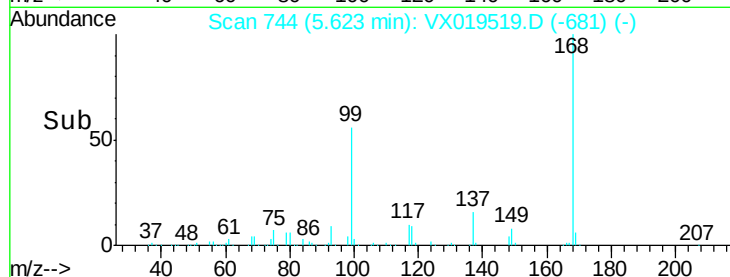
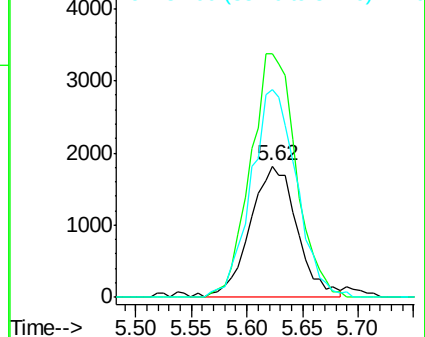
84 157.7 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.197 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019519.D

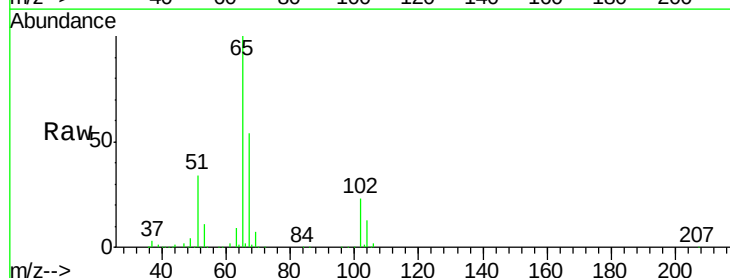
Acq: 21 Nov 2020 02:00

Tgt Ion: 65 Resp: 158624

Ion Ratio Lower Upper

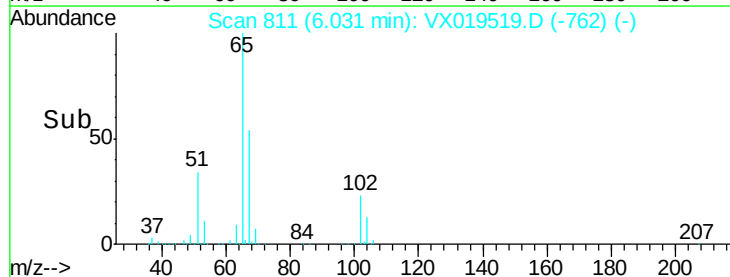
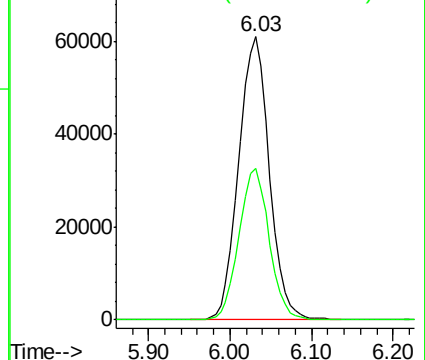
65 100

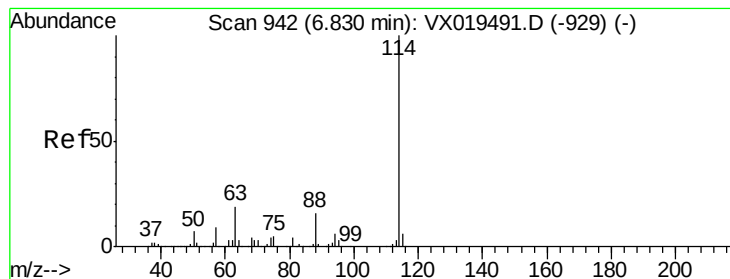
67 53.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampleId :

1641

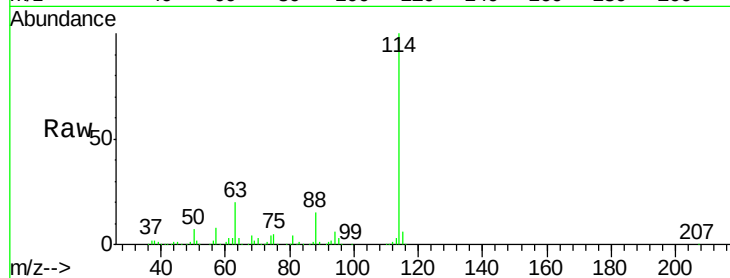
Tot Ion:114 Resp: 424787

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.8

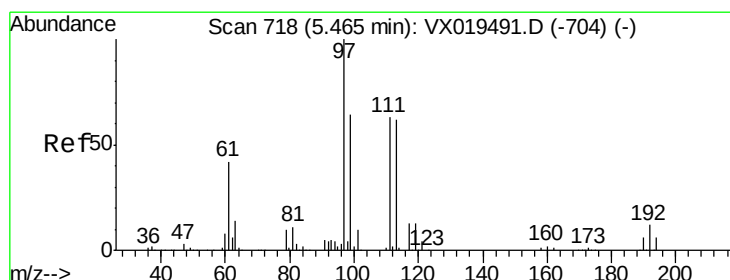
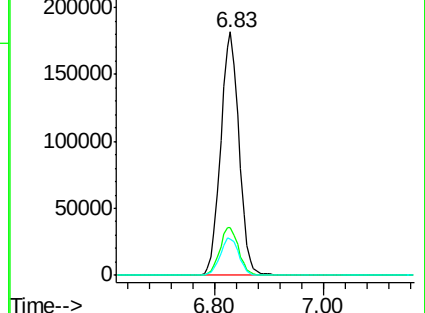
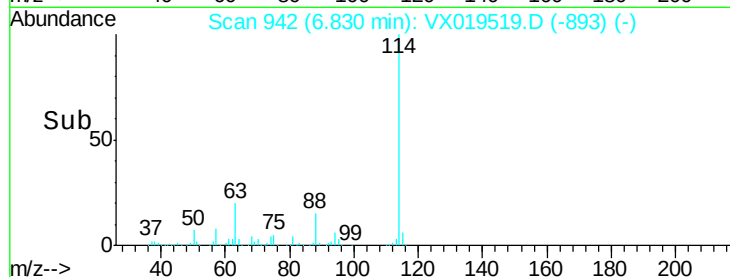
88 15.2 0.0 31.6



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: 47.498 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

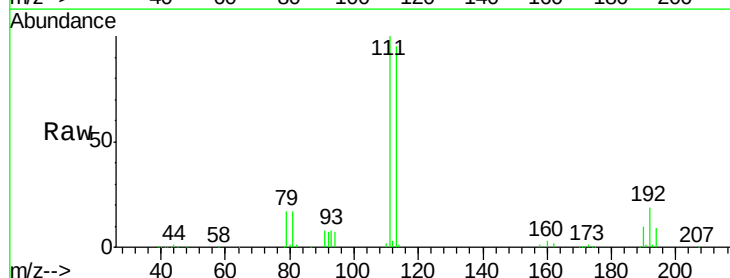
Tgt Ion:113 Resp: 126649

Ion Ratio Lower Upper

113 100

111 103.5 81.5 122.3

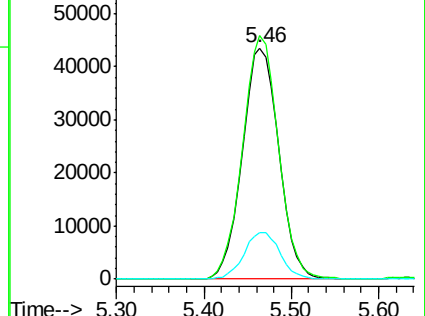
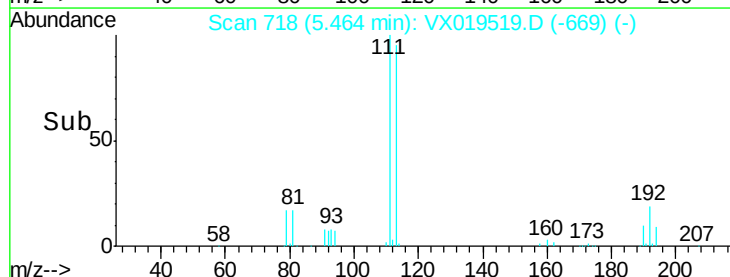
192 19.9 16.2 24.2

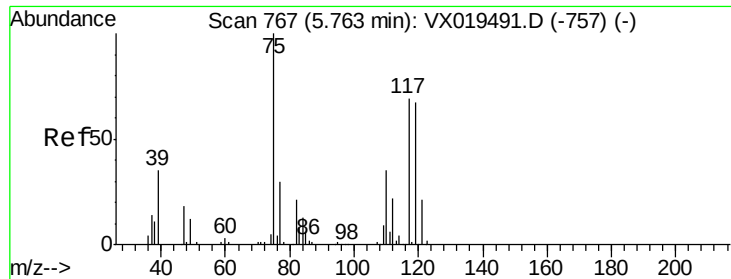


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

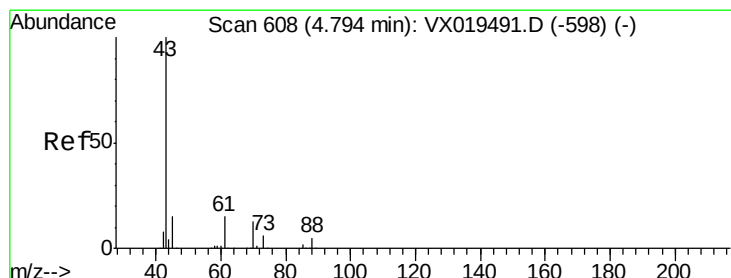
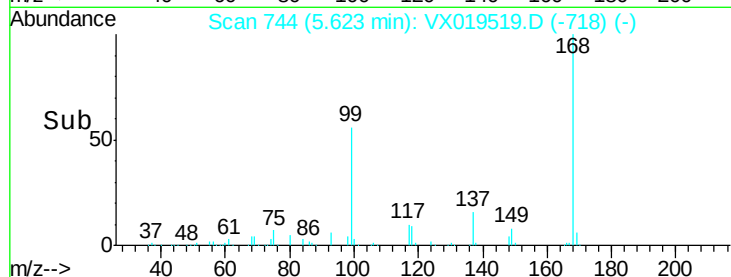
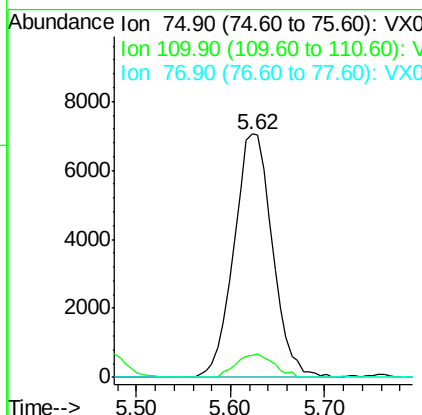
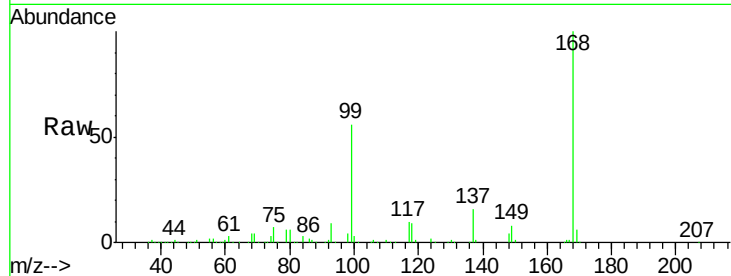




#36
 1,1-Dichloropropene
 Concen: 5.032 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019519.D
 Acq: 21 Nov 2020 02:00

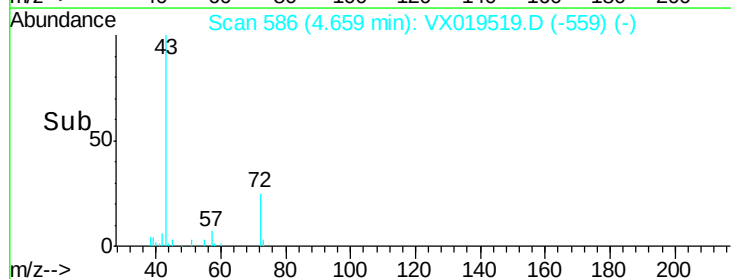
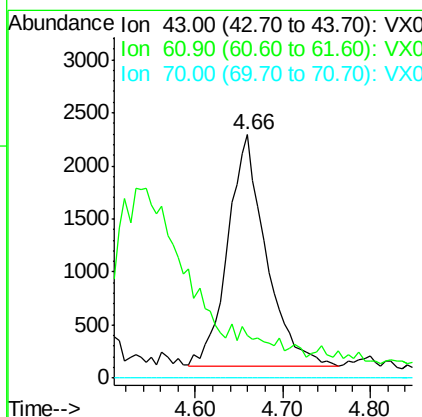
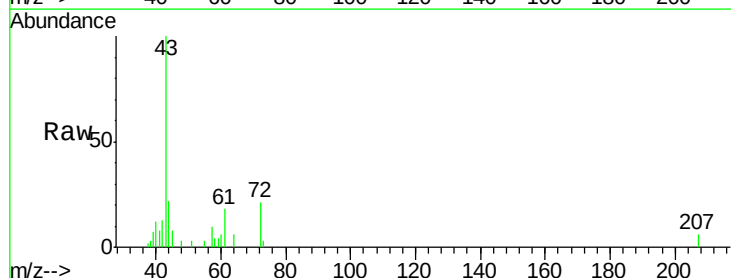
Instrument :
 MSVOA_X
 ClientSampled :
 1641

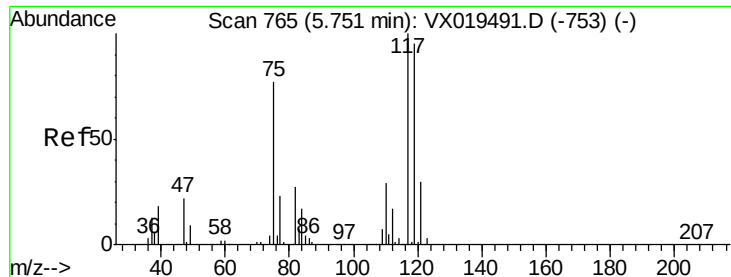
Tot Ion: 75 Resp: 20040
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.1 54.3#
 77 0.0 24.2 36.4#



#37
 Ethyl Acetate
 Concen: 1.766 ug/l
 RT: 4.66 min Scan# 586
 Delta R.T. -0.13 min
 Lab File: VX019519.D
 Acq: 21 Nov 2020 02:00

Tgt Ion: 43 Resp: 6602
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.7 19.1#
 70 0.0 10.2 15.2#





#38

Carbon Tetrachloride

Concen: 6.579 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampleId :

1641

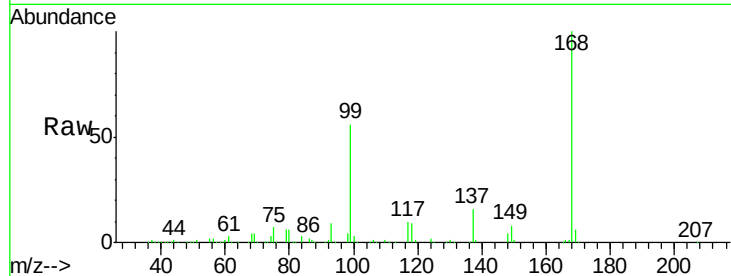
Tot Ion:117 Resp: 25358

Ion Ratio Lower Upper

117 100

119 5.7 75.9 113.9#

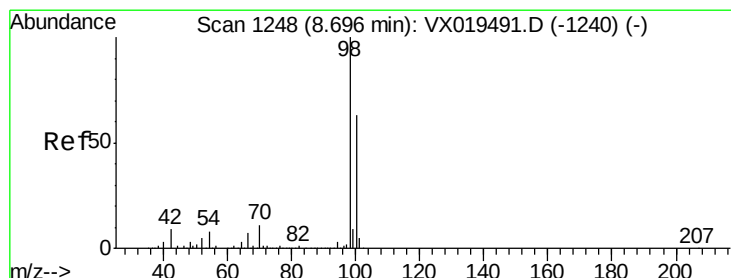
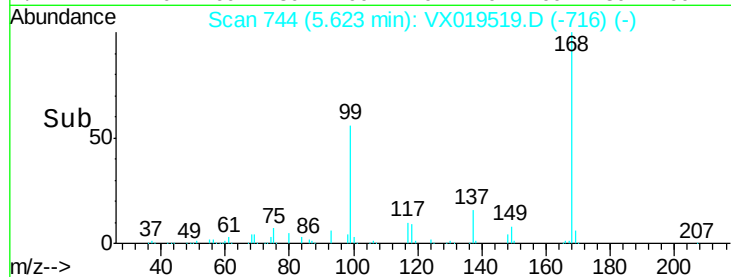
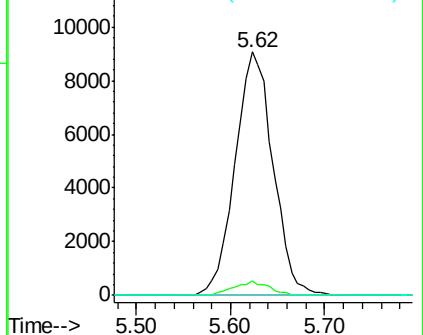
121 0.0 24.0 36.0#



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



#50

Toluene-d8

Concen: 48.002 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019519.D

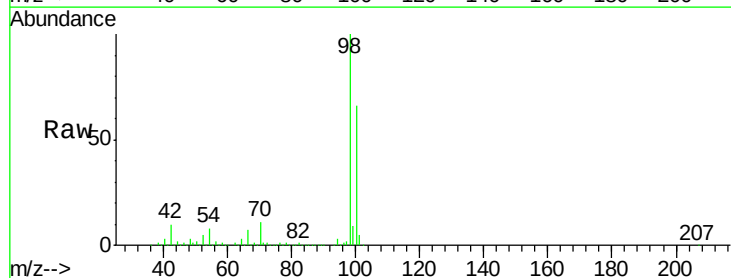
Acq: 21 Nov 2020 02:00

Tgt Ion: 98 Resp: 497365

Ion Ratio Lower Upper

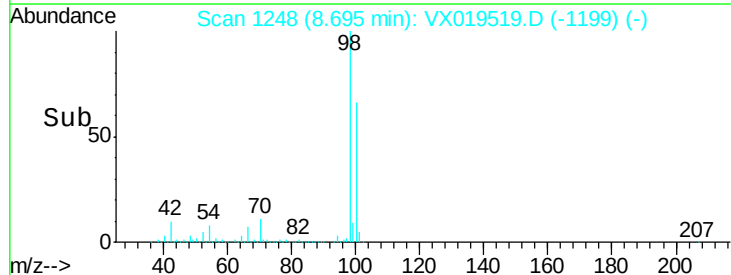
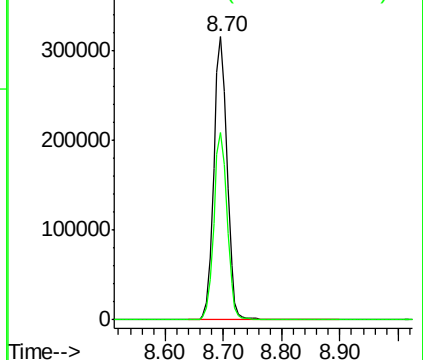
98 100

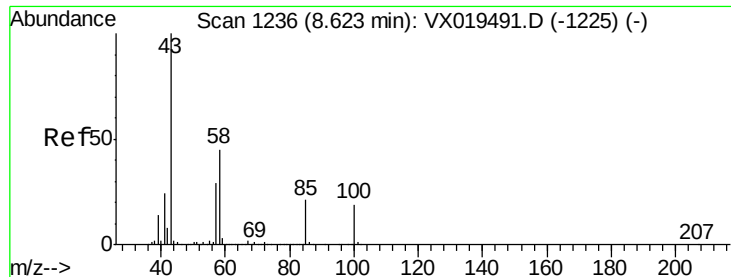
100 66.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.362 ug/l

RT: 8.63 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampled :

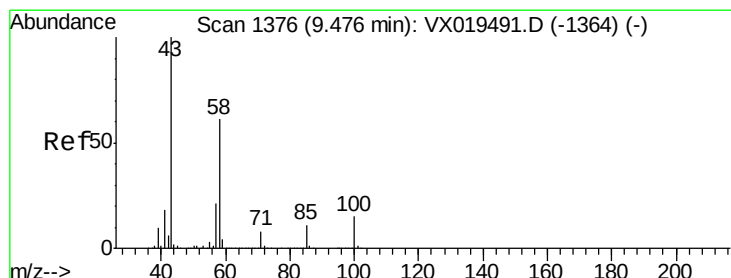
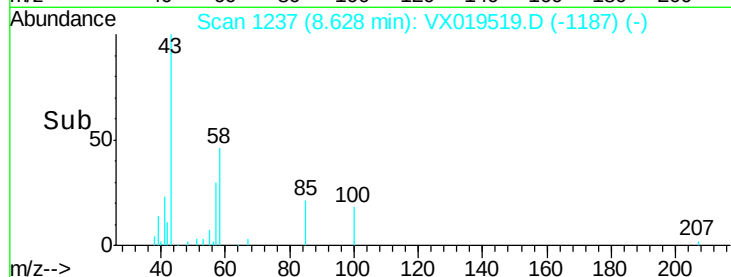
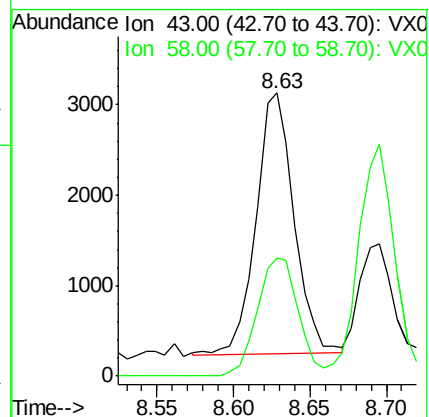
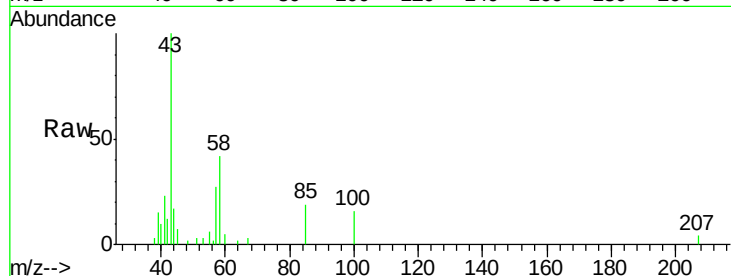
1641

Tot Ion: 43 Resp: 4990

Ion Ratio Lower Upper

43 100

58 48.6 35.1 52.7



#59

2-Hexanone

Concen: 0.623 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX019519.D

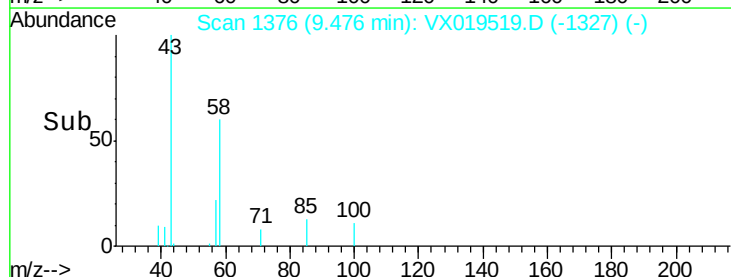
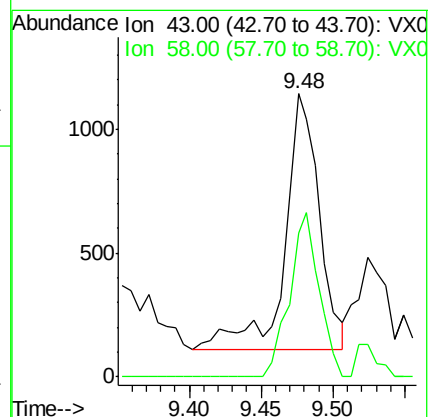
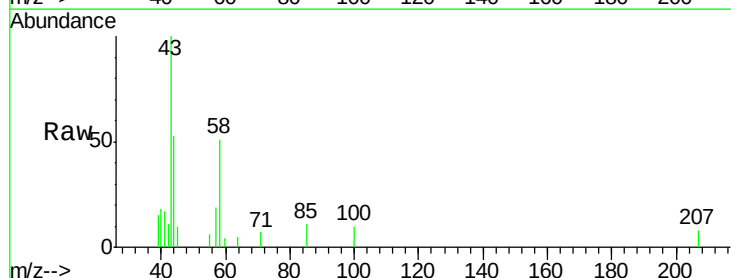
Acq: 21 Nov 2020 02:00

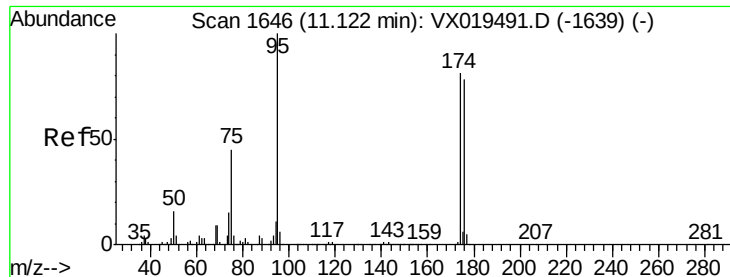
Tgt Ion: 43 Resp: 1732

Ion Ratio Lower Upper

43 100

58 54.8 30.6 91.6





#62

4-Bromofluorobenzene

Concen: 47.424 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampleId :

1641

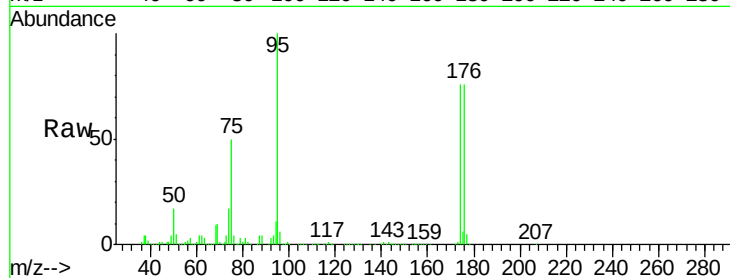
Tot Ion: 95 Resp: 176789

Ion Ratio Lower Upper

95 100

174 77.9 0.0 156.2

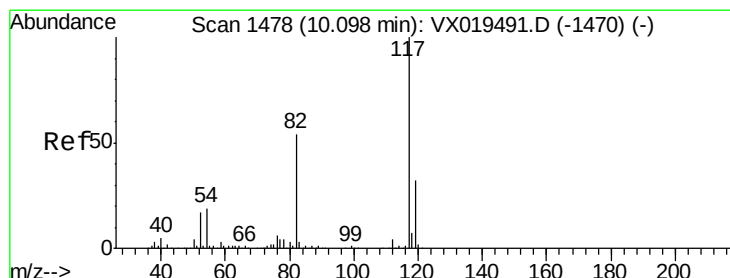
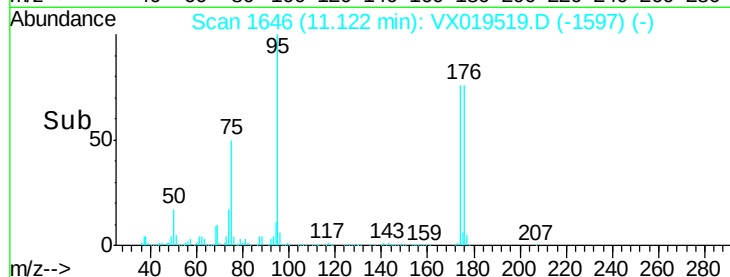
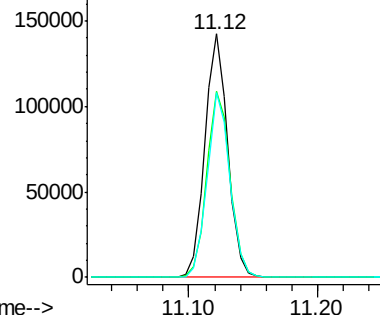
176 75.3 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX019491.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019491.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019491.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

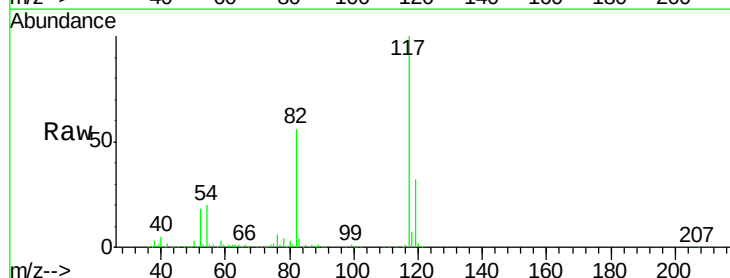
Tgt Ion: 117 Resp: 366916

Ion Ratio Lower Upper

117 100

82 56.1 43.0 64.4

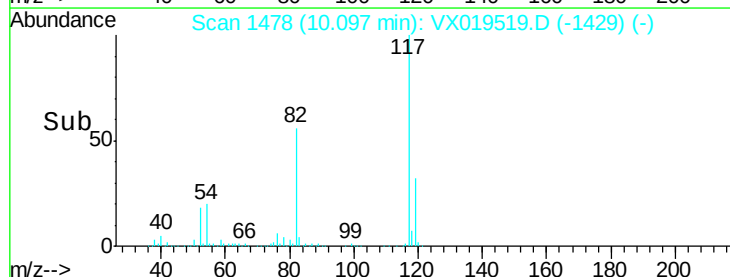
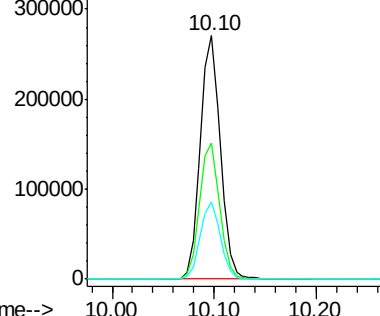
119 31.7 25.6 38.4

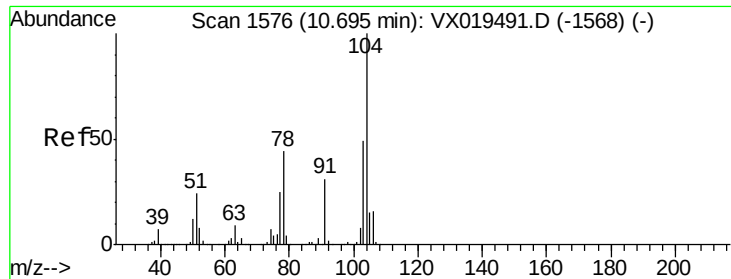


Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019491.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019491.D (-1470) (-)

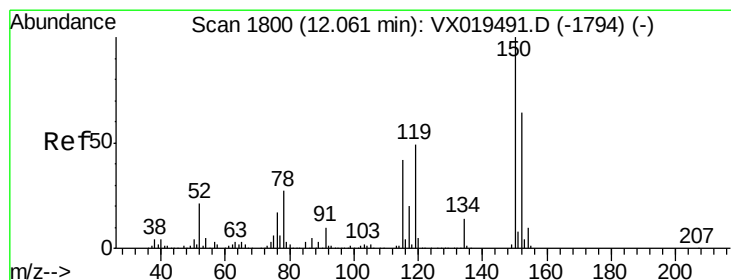
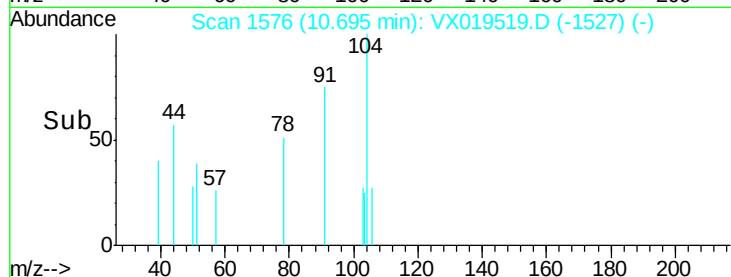
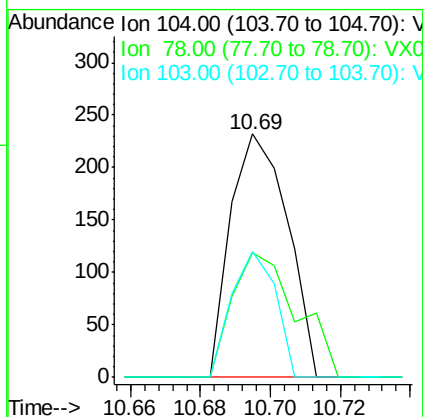
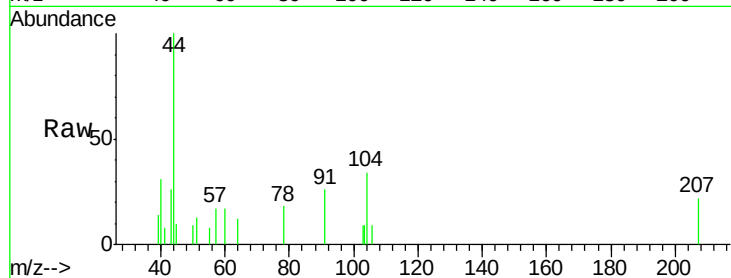




#70
Stvrene
Concen: 1.675 ug/l
RT: 10.69 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

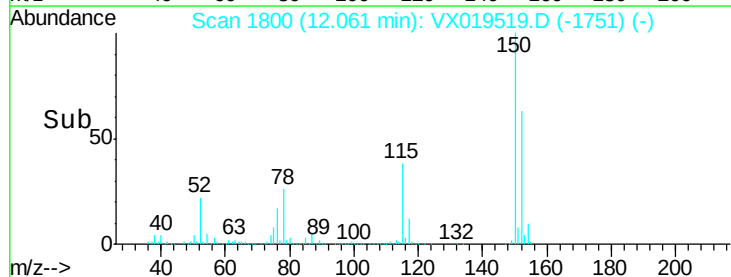
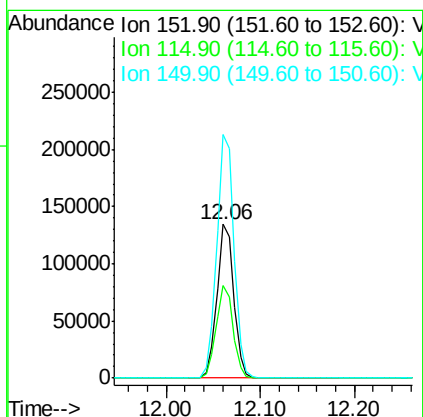
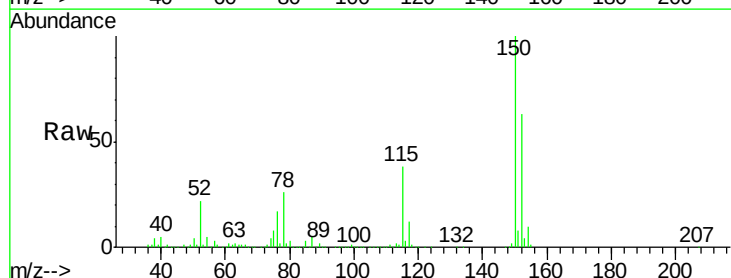
Instrument :
MSVOA_X
ClientSampleId :
1641

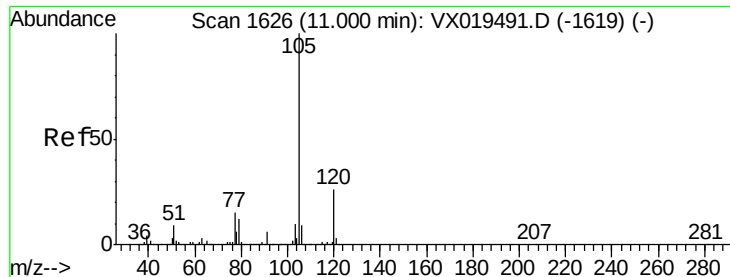
Tot Ion:104 Resp: 263
Ion Ratio Lower Upper
104 100
78 58.2 39.5 59.3
103 40.3 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

Tgt Ion:152 Resp: 167057
Ion Ratio Lower Upper
152 100
115 60.5 41.8 125.4
150 161.6 0.0 348.2





#73

Isopropylbenzene

Concen: 0.469 ug/l

RT: 10.99 min Scan# 1624

Delta R.T. -0.01 min

Lab File: VX019519.D

Acq: 21 Nov 2020 02:00

Instrument :

MSVOA_X

ClientSampleId :

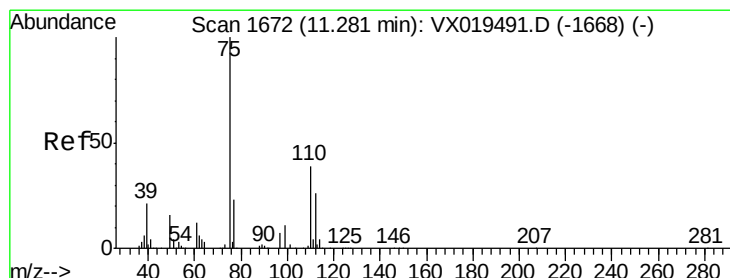
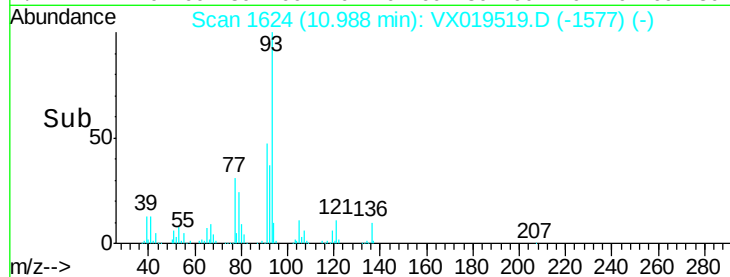
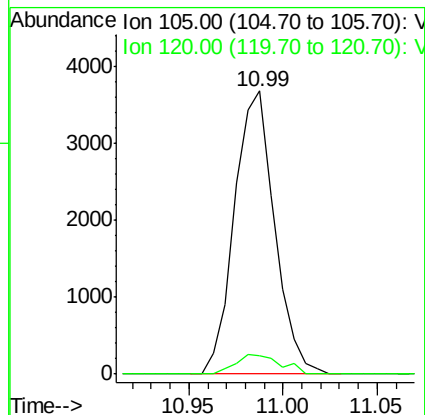
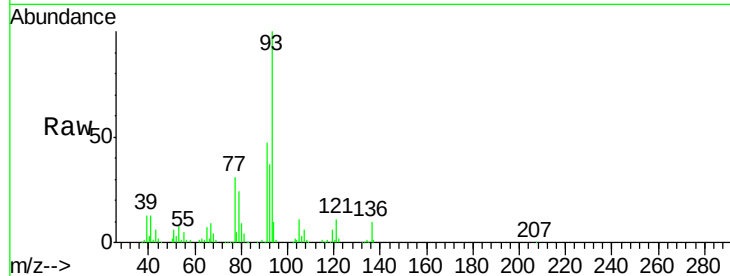
1641

Tot Ion:105 Resp: 5425

Ion Ratio Lower Upper

105 100

120 7.7 13.0 39.0#



#76

1,2,3-Trichloropropane

Concen: 24.092 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019519.D

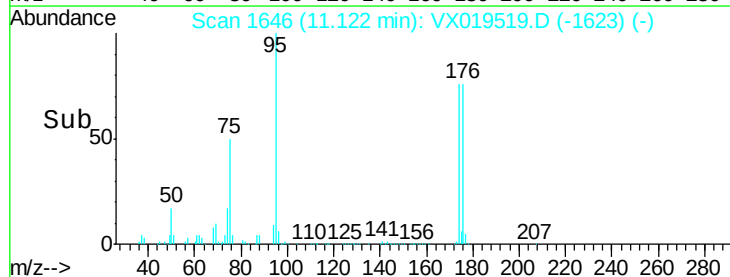
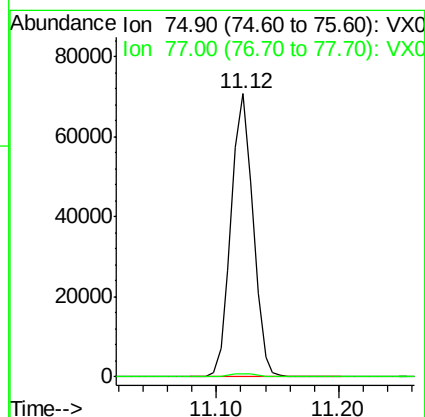
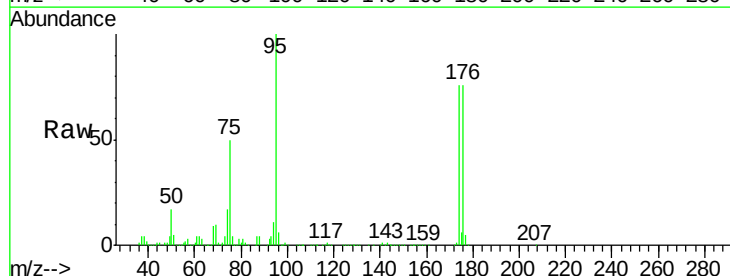
Acq: 21 Nov 2020 02:00

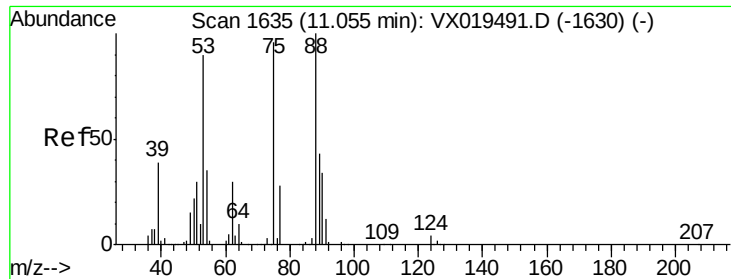
Tgt Ion: 75 Resp: 87834

Ion Ratio Lower Upper

75 100

77 1.2 20.0 60.0#

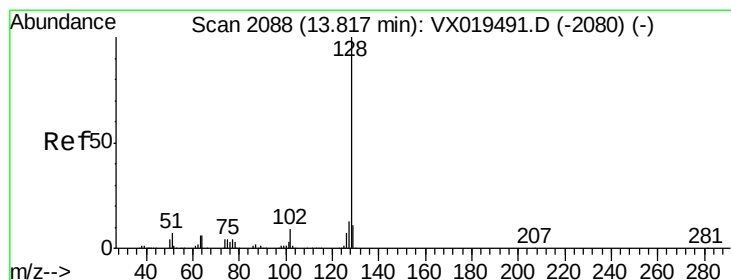
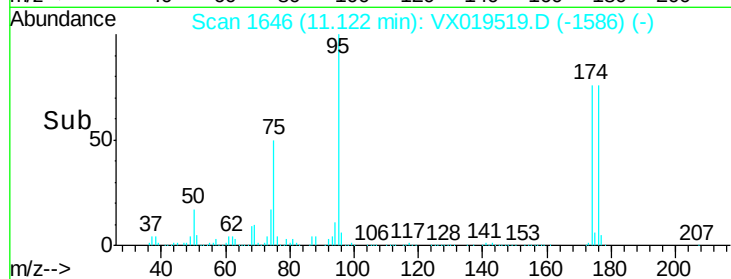
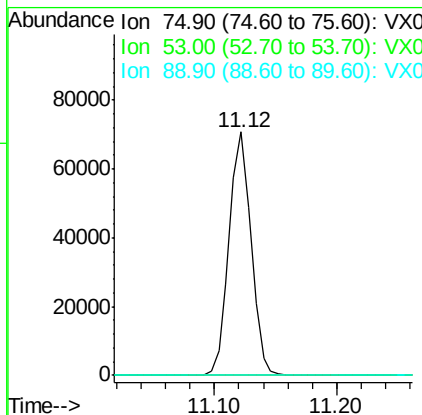
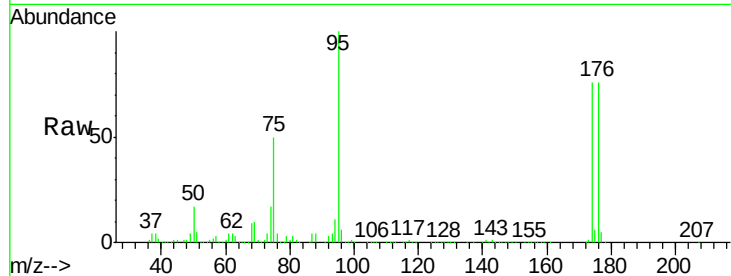




#81
trans-1,4-Dichloro-2-butene
Concen: 63.795 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

Instrument :
MSVOA_X
ClientSampled :
1641

Tot Ion: 75 Resp: 87834
Ion Ratio Lower Upper
75 100
53 0.3 73.9 110.9#
89 0.0 37.3 55.9#



#95
Naphthalene
Concen: 3.398 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019519.D
Acq: 21 Nov 2020 02:00

Tgt Ion: 128 Resp: 15711
Ion Ratio Lower Upper
128 100
127 13.8 10.3 15.5
129 14.4 8.7 13.1#

