

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112520\
 Data File : VX019654.D
 Acq On : 25 Nov 2020 14:21
 Operator : JC/MD
 Sample : L4835-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20201119

Quant Time: Nov 26 04:59:11 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	314085	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	526352	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	476675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	213814	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	195548	48.02	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.04%
35) Dibromofluoromethane	5.46	113	154043	46.62	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.24%
50) Toluene-d8	8.70	98	629294	49.02	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.04%
62) 4-Bromofluorobenzene	11.12	95	231062	50.02	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	100.04%

Target Compounds

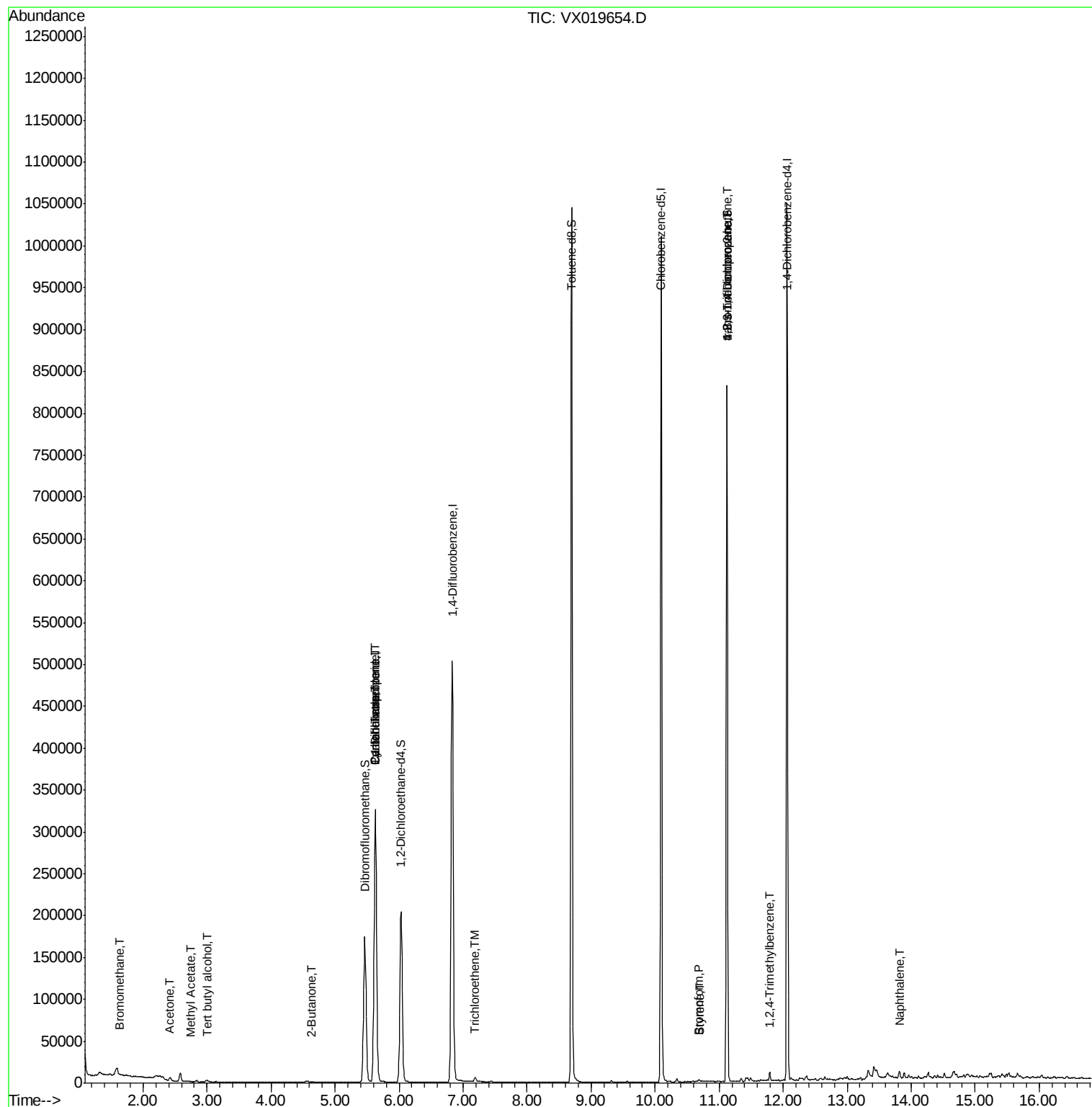
					Qvalue
5) Bromomethane	1.63	94	328	0.230 ug/l #	74
6) Chloroethane	1.66	64	134	Below Cal #	41
11) Tert butyl alcohol	3.00	59	1357	1.761 ug/l #	73
16) Acetone	2.42	43	3585	2.276 ug/l	97
18) Methyl Acetate	2.75	43	213	0.689 ug/l #	47
25) 2-Butanone	4.64	43	542	0.229 ug/l #	45
31) Cyclohexane	5.63	56	6374	1.203 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23546	4.772 ug/l #	49
38) Carbon Tetrachloride	5.63	117	30586	6.404 ug/l #	16
44) Trichloroethene	7.18	130	1295	0.326 ug/l	96
70) Styrene	10.70	104	403	1.680 ug/l #	75
71) Bromoform	10.68	173	42	3.616 ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	112904	24.196 ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	112904	64.053 ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	4574	0.364 ug/l	96
95) Naphthalene	13.82	128	5903	2.536 ug/l	96

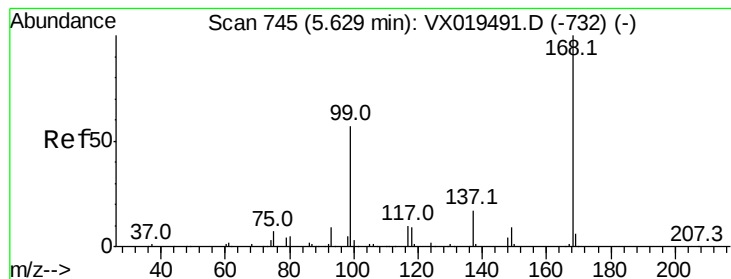
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

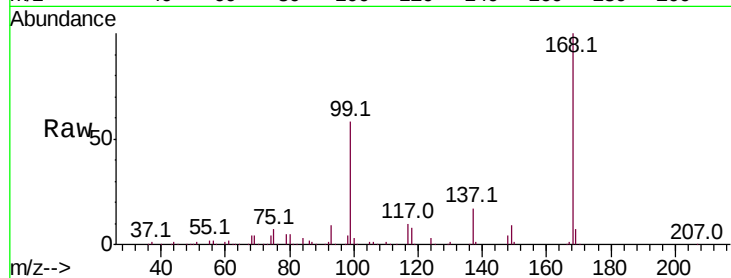
DUP01-20201119

Tot Ion:168 Resp: 314085

Ion Ratio Lower Upper

168 100

99 58.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

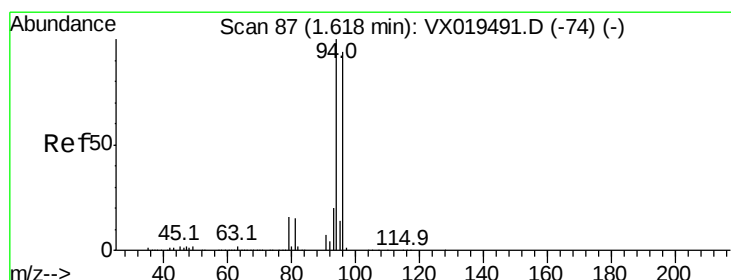
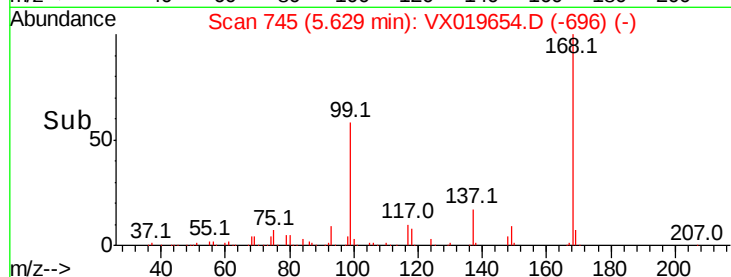
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.230 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019654.D

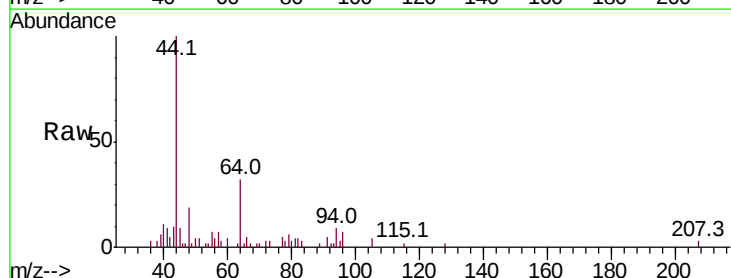
Acq: 25 Nov 2020 14:21

Tgt Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 69.1 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

300

250

200

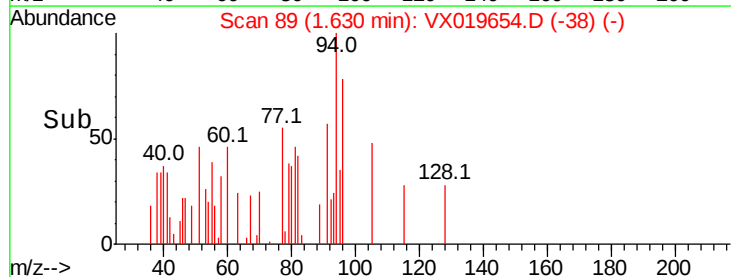
150

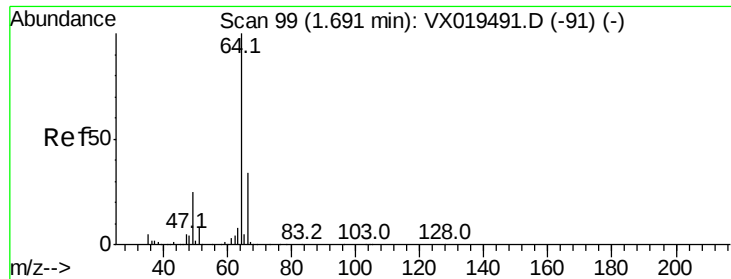
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 94

Delta R.T. -0.03 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

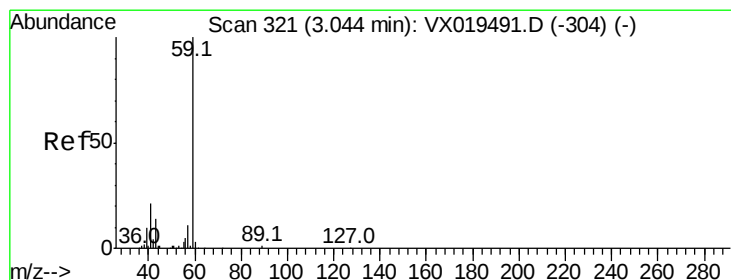
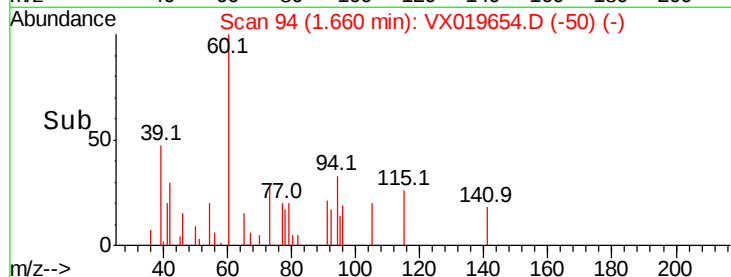
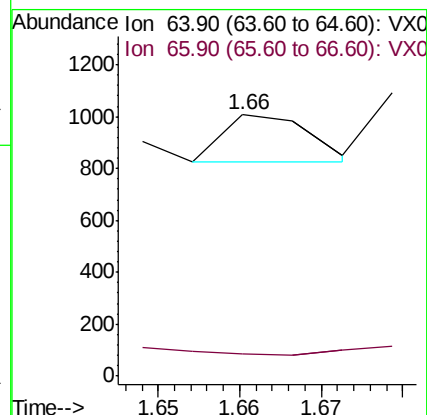
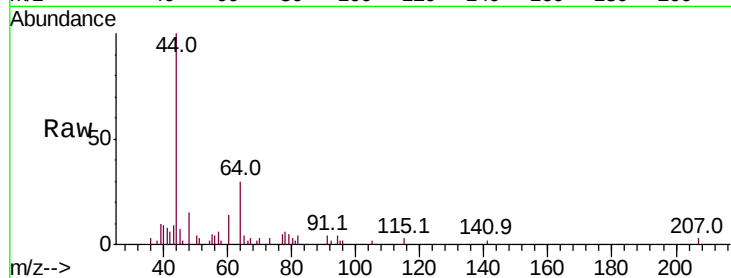
DUP01-20201119

Tot Ion: 64 Resp: 134

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



#11

Tert butyl alcohol

Concen: 1.761 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019654.D

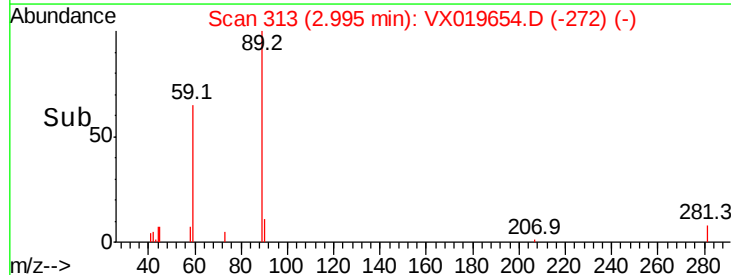
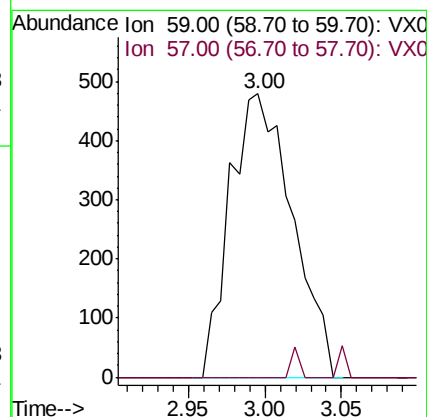
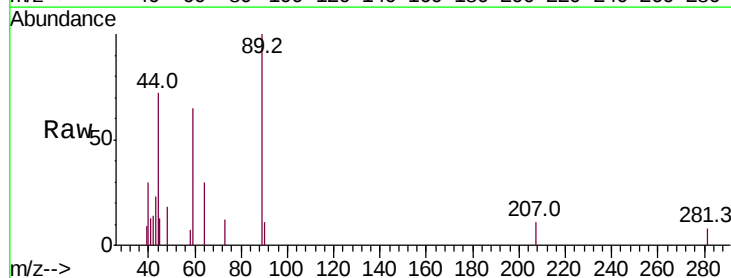
Acq: 25 Nov 2020 14:21

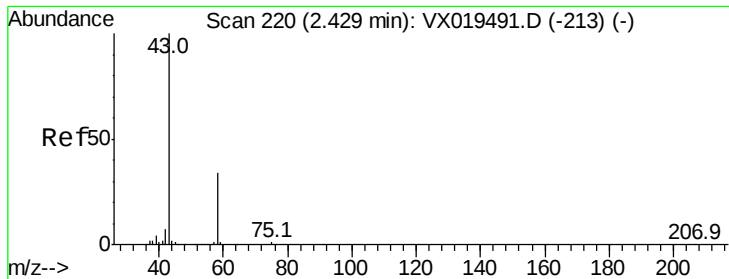
Tgt Ion: 59 Resp: 1357

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#

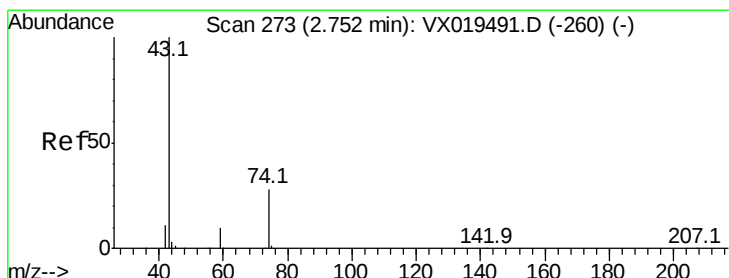
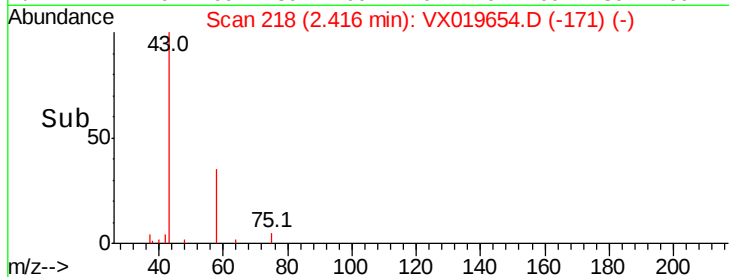
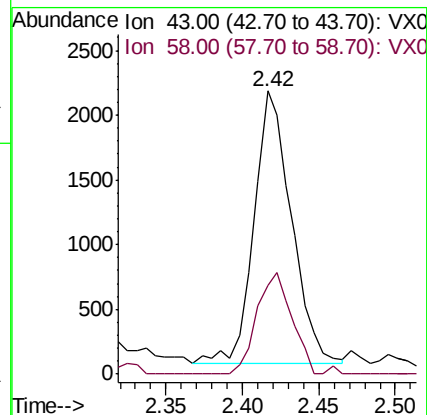
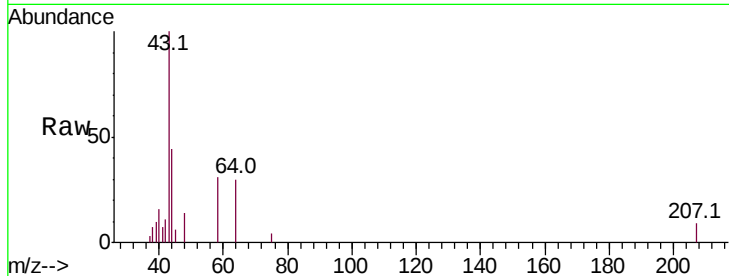




#16
Acetone
Concen: 2.276 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

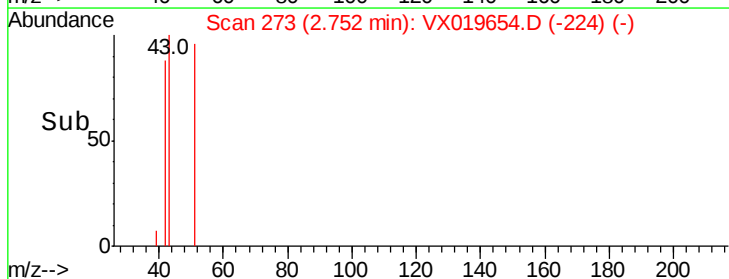
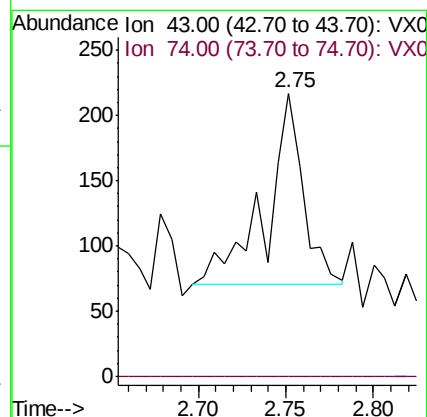
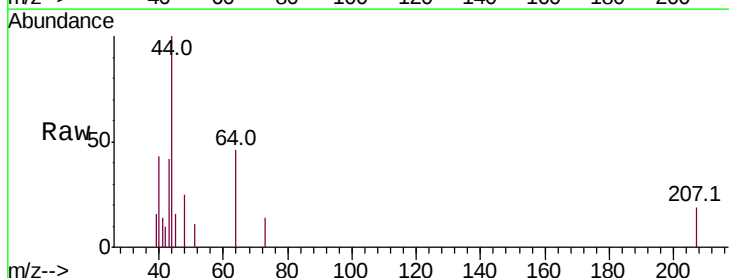
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201119

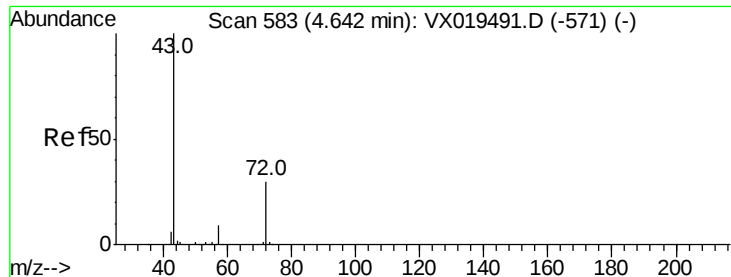
Tot Ion: 43 Resp: 3585
Ion Ratio Lower Upper
43 100
58 32.7 27.4 41.2



#18
Methyl Acetate
Concen: 0.689 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

Tgt Ion: 43 Resp: 213
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.4#





#25

2-Butanone

Concen: 0.229 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

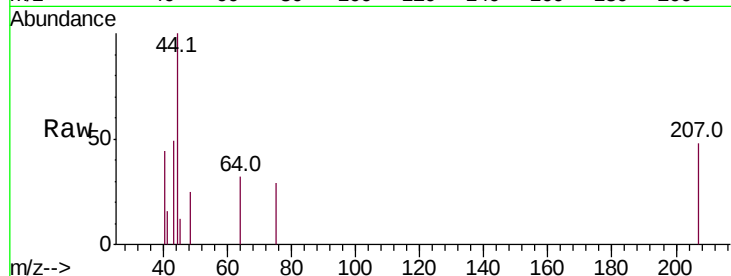
DUP01-20201119

Tot Ion: 43 Resp: 542

Ion Ratio Lower Upper

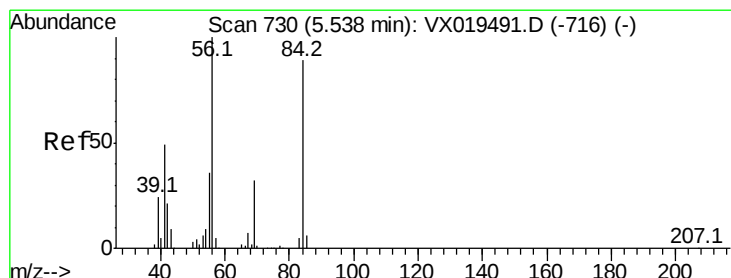
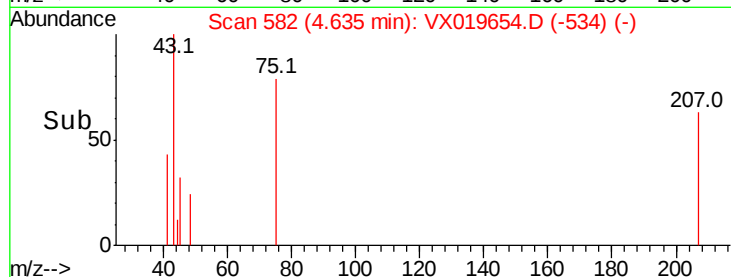
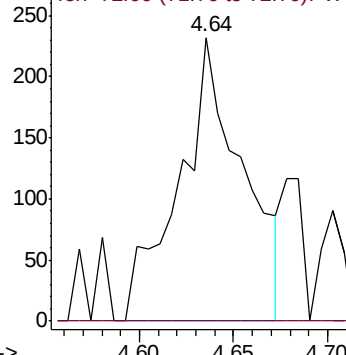
43 100

72 0.0 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 1.203 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

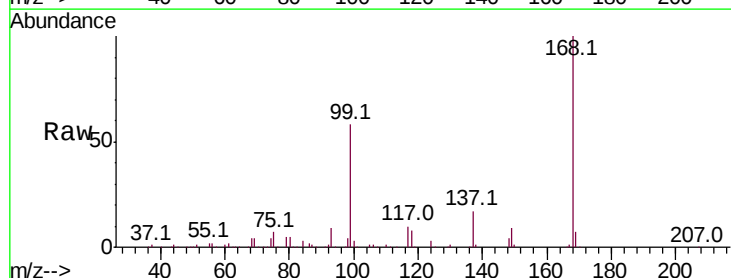
Tgt Ion: 56 Resp: 6374

Ion Ratio Lower Upper

56 100

69 188.4 25.5 38.3#

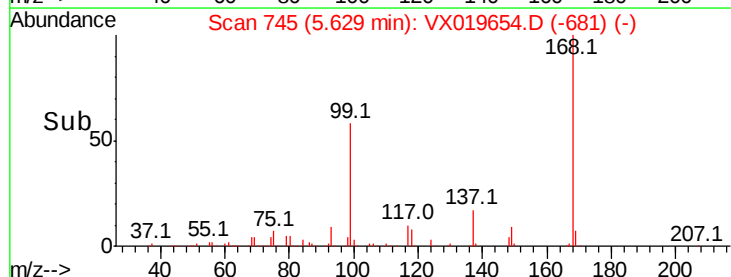
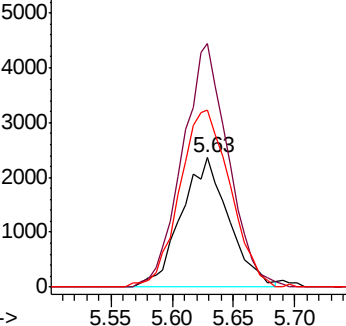
84 136.6 71.1 106.7#

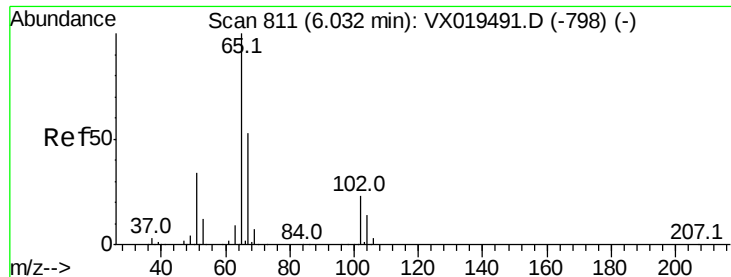


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

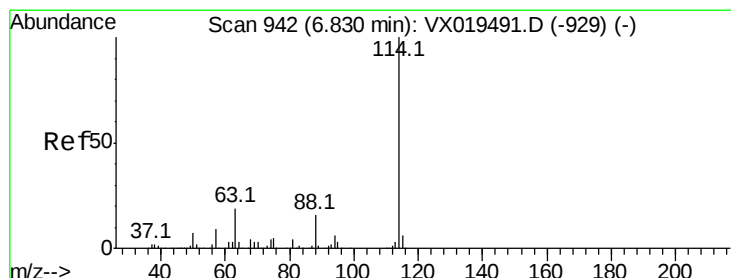
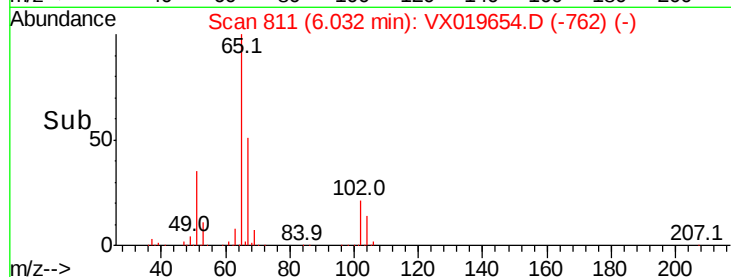
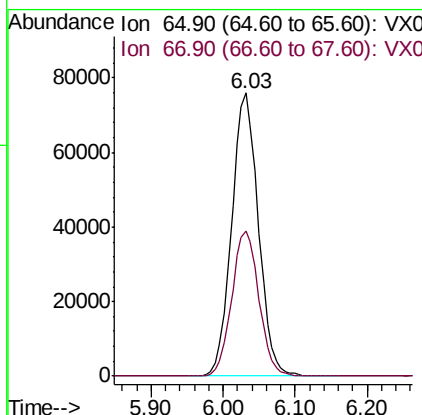
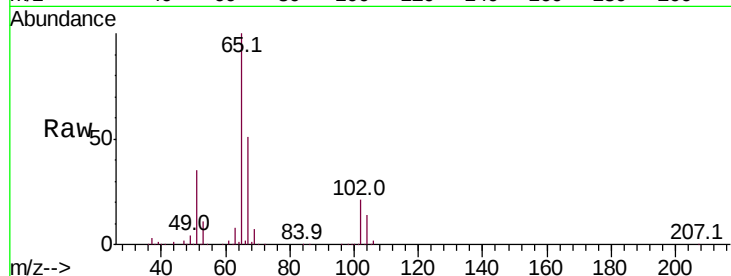




#33
 1,2-Dichloroethane-d4
 Concen: 48.018 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019654.D
 Acq: 25 Nov 2020 14:21

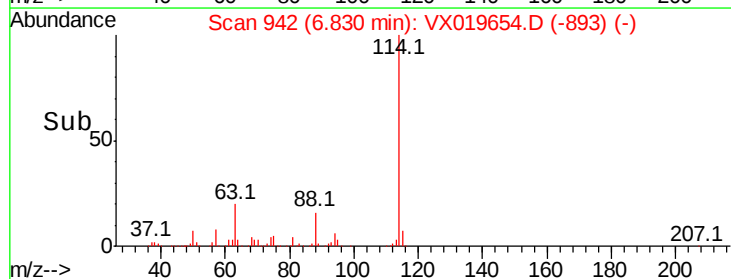
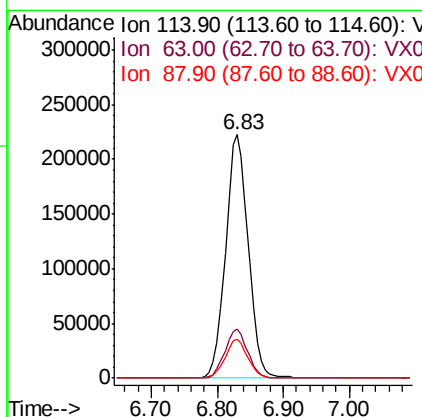
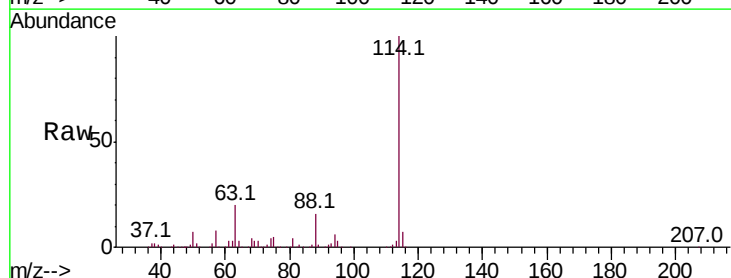
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20201119

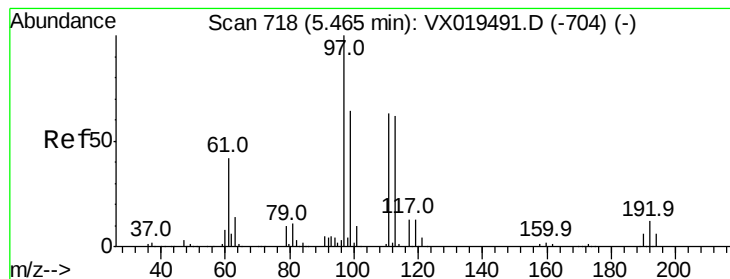
Tot Ion: 65 Resp: 195548
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX019654.D
 Acq: 25 Nov 2020 14:21

Tgt Ion: 114 Resp: 526352
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 38.8
 88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.624 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20201119

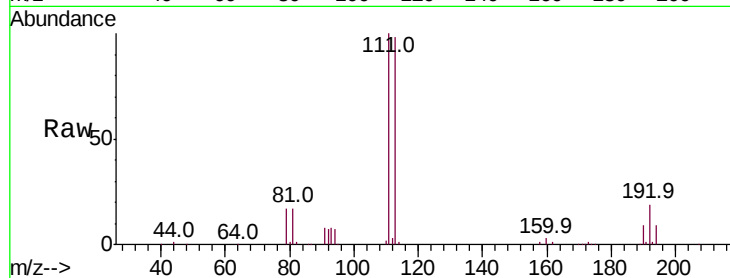
Tot Ion:113 Resp: 154043

Ion Ratio Lower Upper

113 100

111 102.1 81.5 122.3

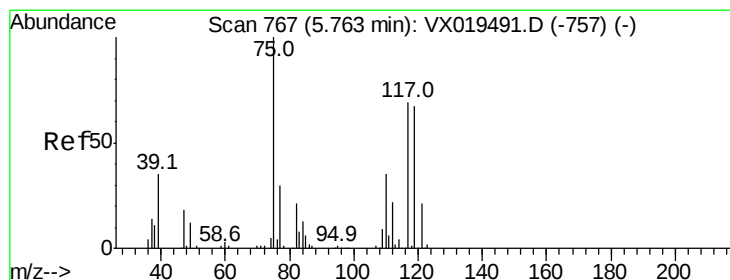
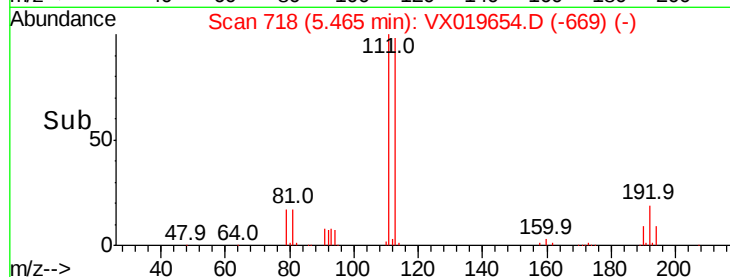
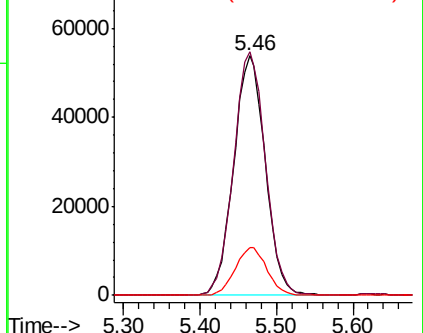
192 20.0 16.2 24.2



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: 4.772 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

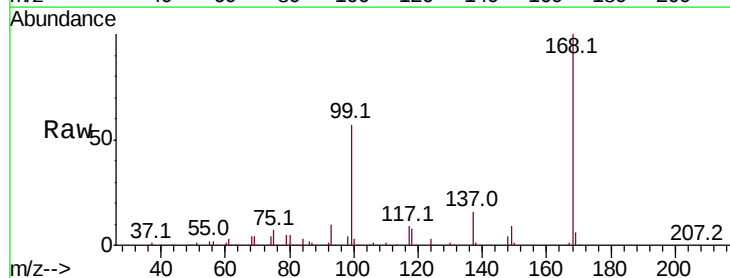
Tgt Ion: 75 Resp: 23546

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.3#

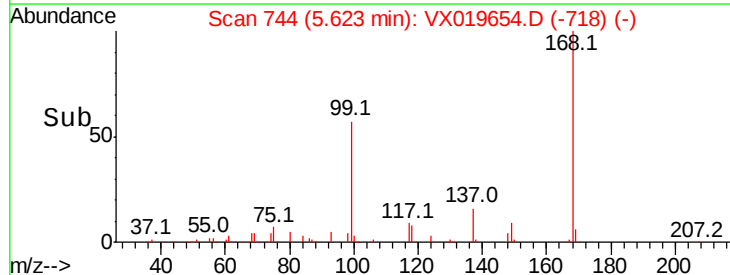
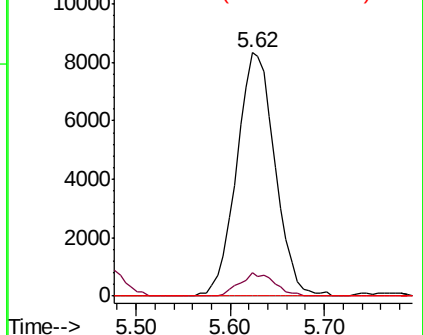
77 0.0 24.2 36.4#

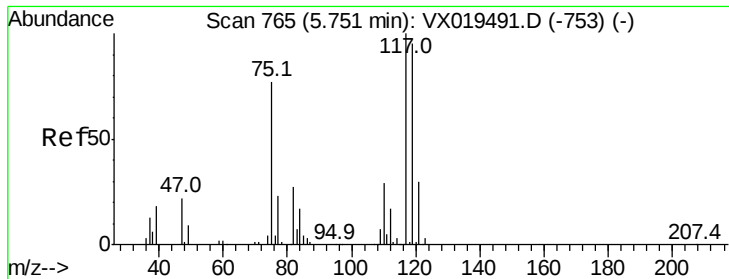


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

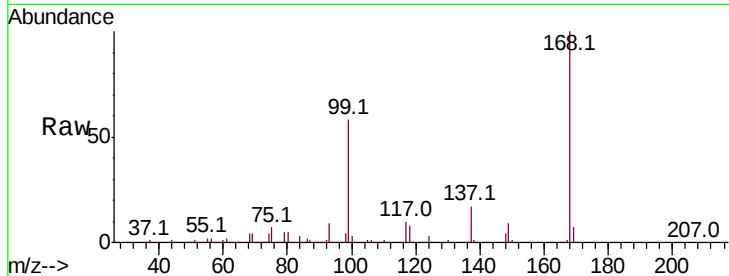




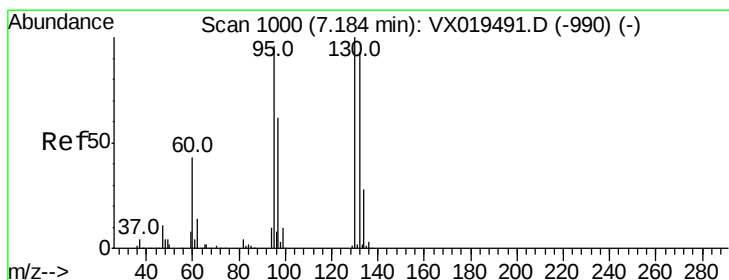
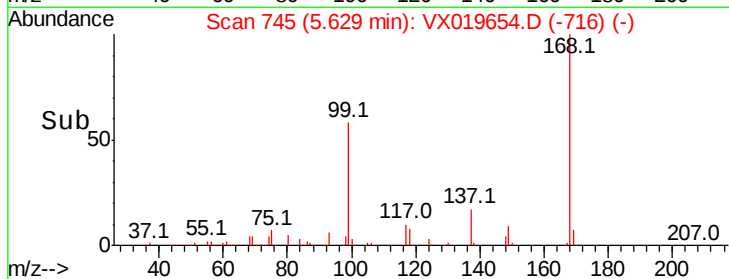
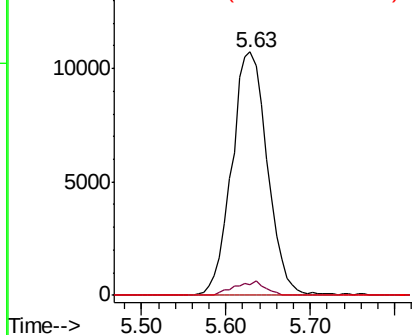
#38
Carbon Tetrachloride
Concen: 6.404 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201119

Tot Ion:117 Resp: 30586
Ion Ratio Lower Upper
117 100
119 4.5 75.9 113.9#
121 0.0 24.0 36.0#

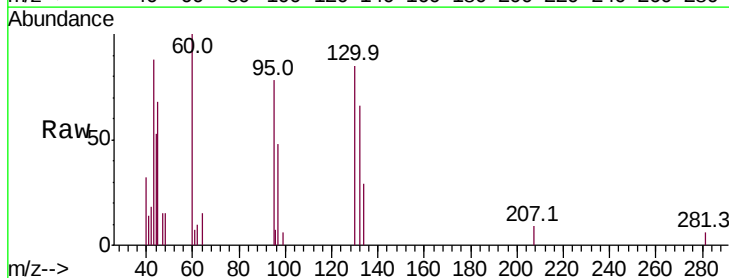


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

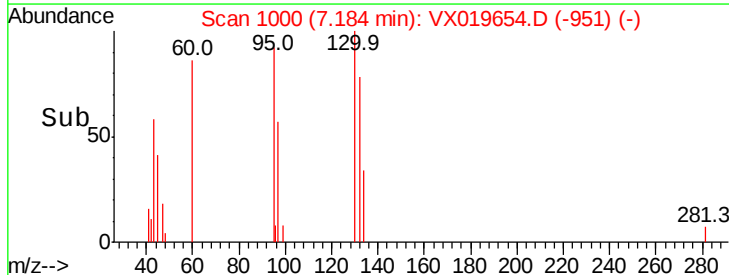
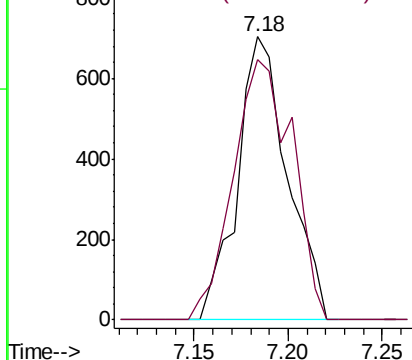


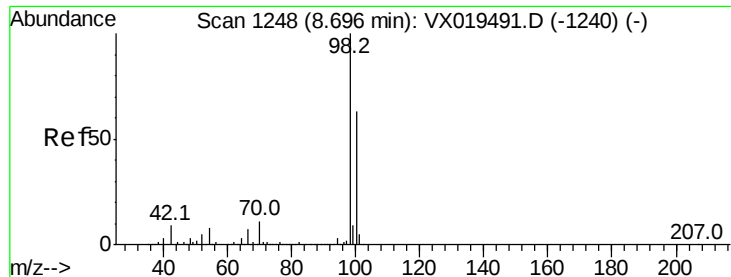
#44
Trichloroethene
Concen: 0.326 ug/l
RT: 7.18 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

Tgt Ion:130 Resp: 1295
Ion Ratio Lower Upper
130 100
95 91.9 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

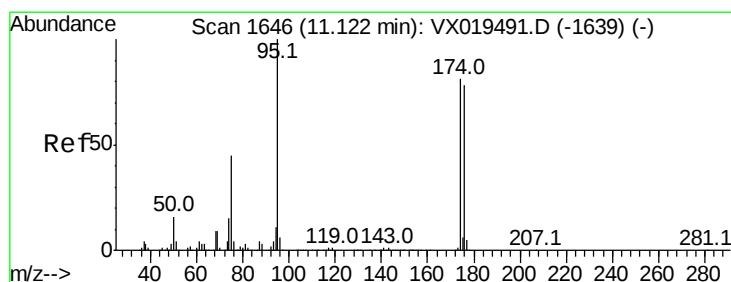
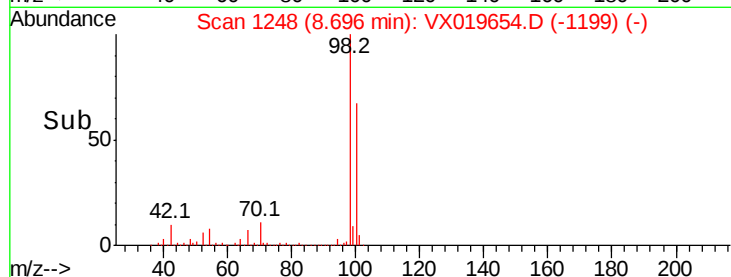
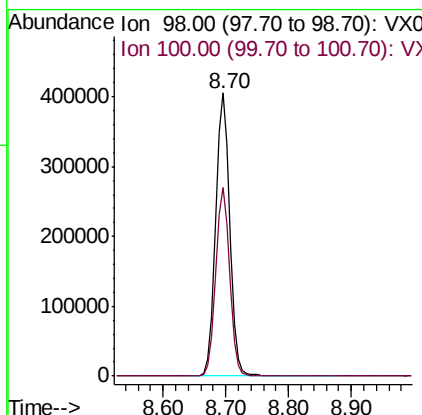
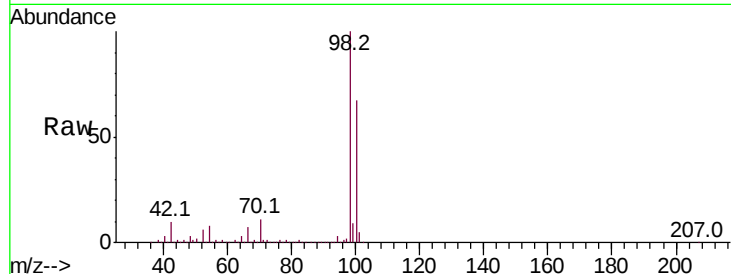




#50
Toluene-d8
Concen: 49.016 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

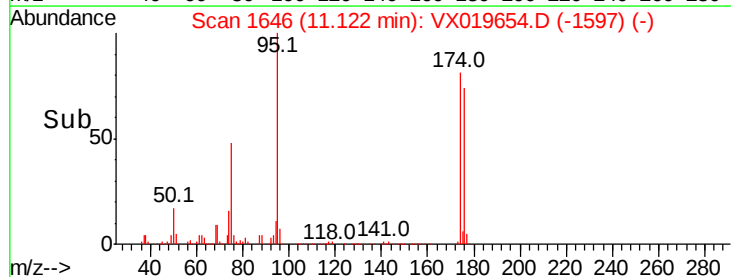
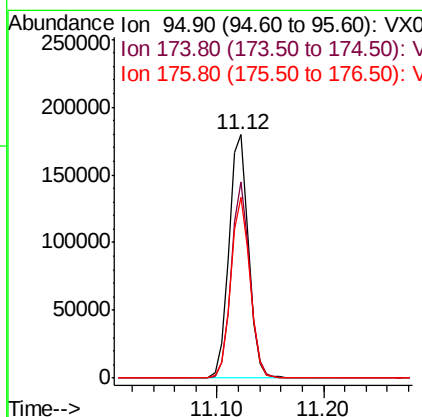
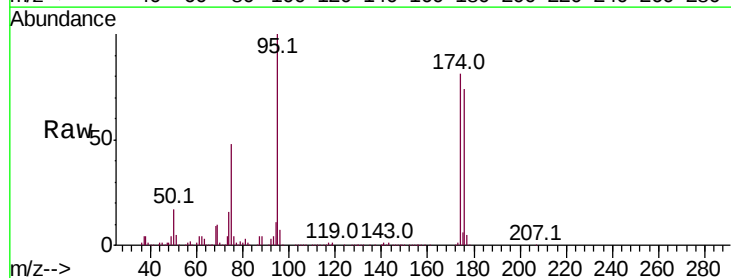
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201119

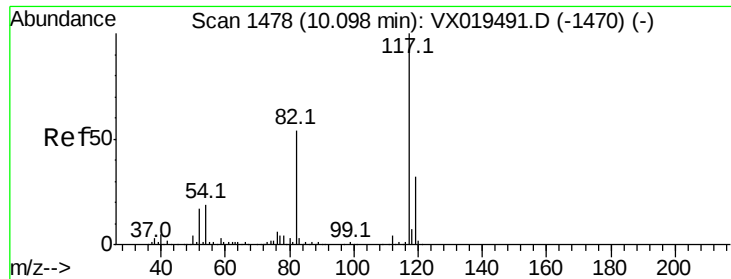
Tot Ion: 98 Resp: 629294
Ion Ratio Lower Upper
98 100
100 66.1 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 50.022 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

Tgt Ion: 95 Resp: 231062
Ion Ratio Lower Upper
95 100
174 76.5 0.0 156.2
176 73.1 0.0 151.4

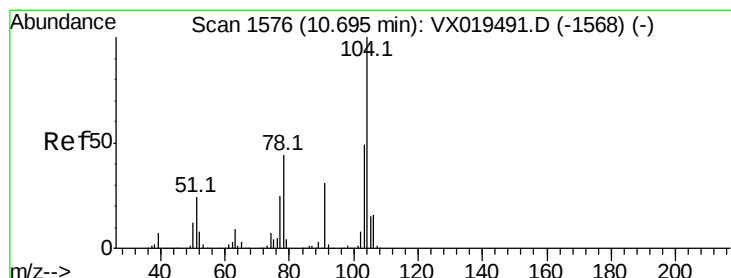
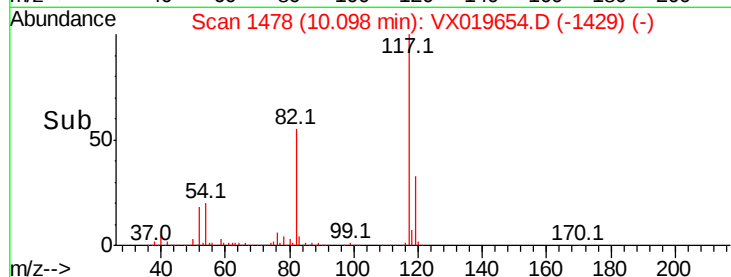
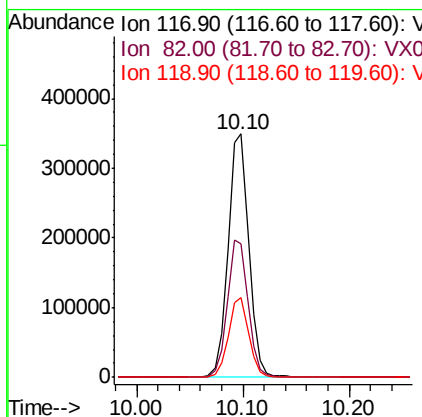
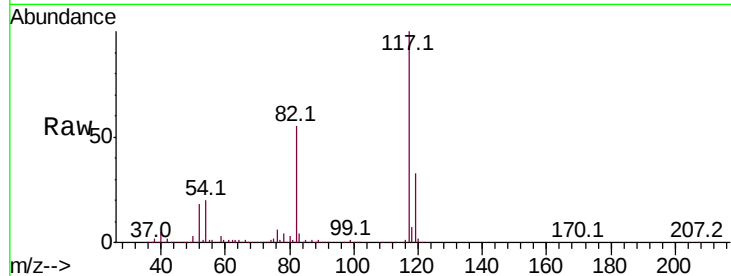




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

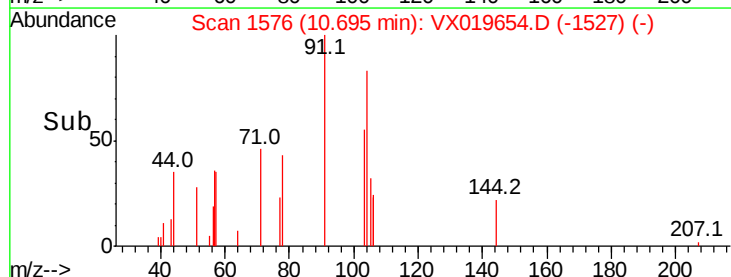
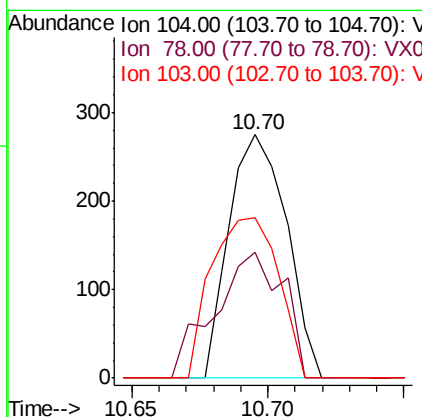
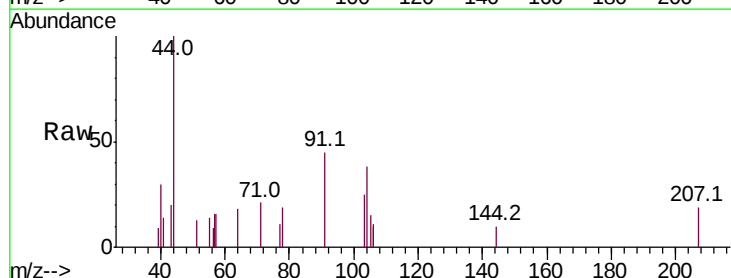
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201119

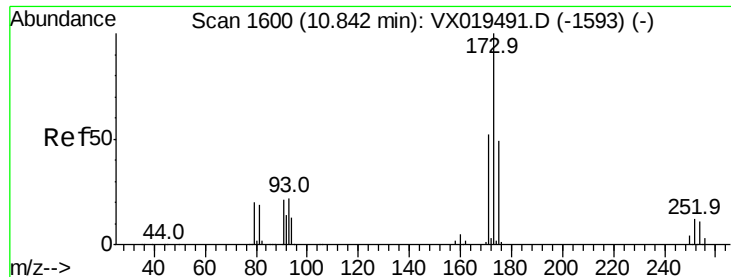
Tot Ion:117 Resp: 476675
Ion Ratio Lower Upper
117 100
82 54.7 43.0 64.4
119 32.5 25.6 38.4



#70
Styrene
Concen: 1.680 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019654.D
Acq: 25 Nov 2020 14:21

Tgt Ion:104 Resp: 403
Ion Ratio Lower Upper
104 100
78 61.8 39.5 59.3#
103 76.9 43.6 65.4#





#71

Bromoform

Concen: 3.616 ug/l

RT: 10.68 min Scan# 1573

Delta R.T. -0.16 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20201119

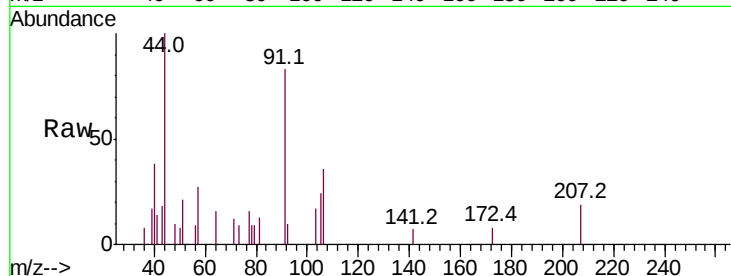
Tot Ion:173 Resp: 42

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.8#

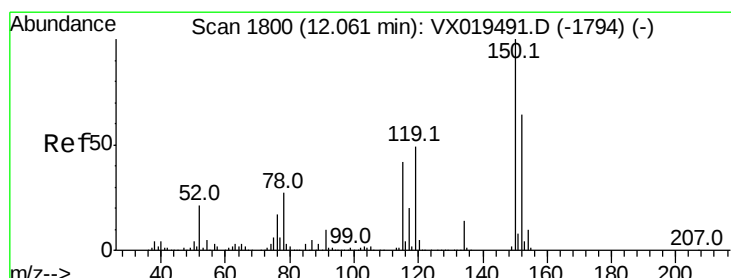
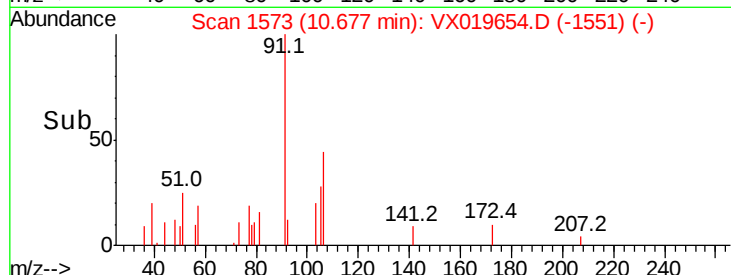
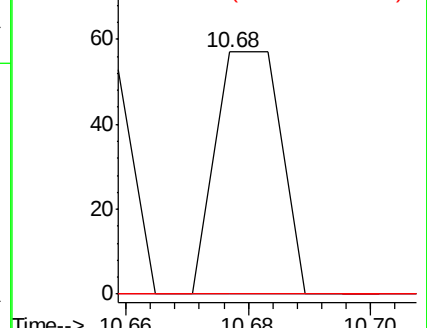
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX019654.D

Acq: 25 Nov 2020 14:21

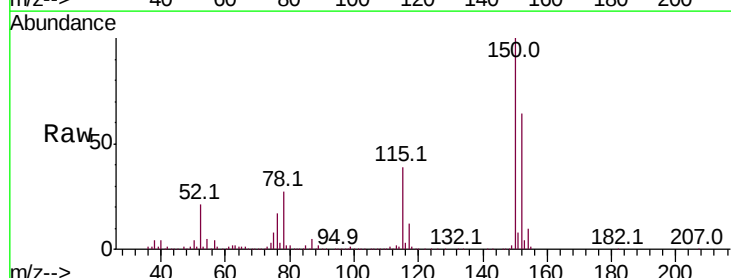
Tgt Ion:152 Resp: 213814

Ion Ratio Lower Upper

152 100

115 61.0 41.8 125.4

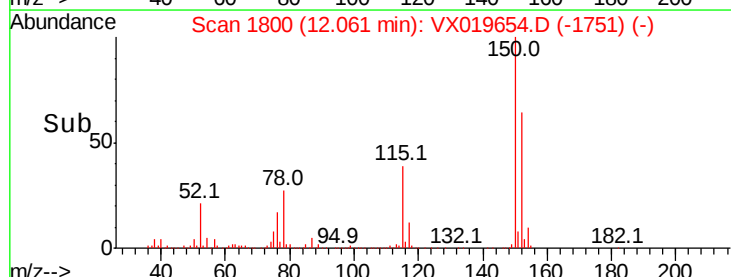
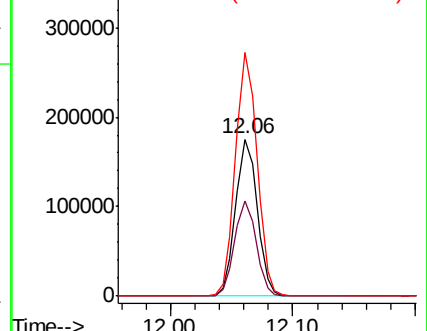
150 155.4 0.0 348.2

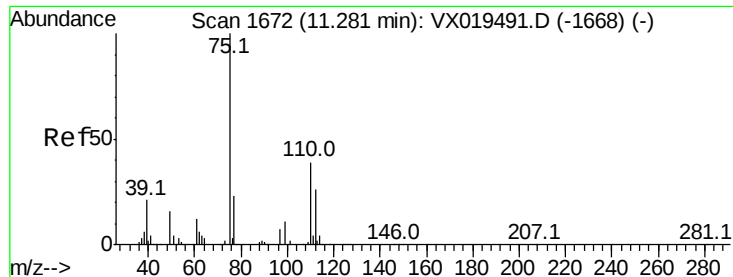


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.196 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

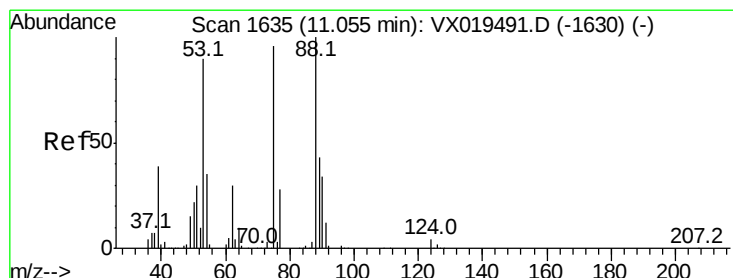
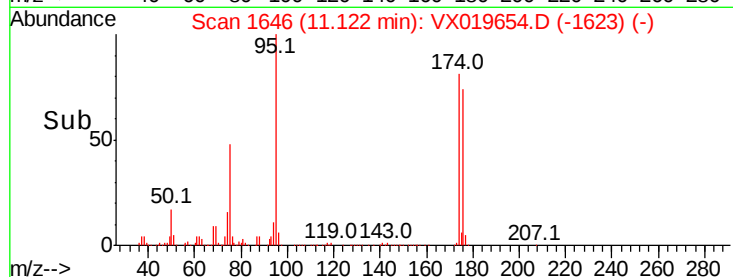
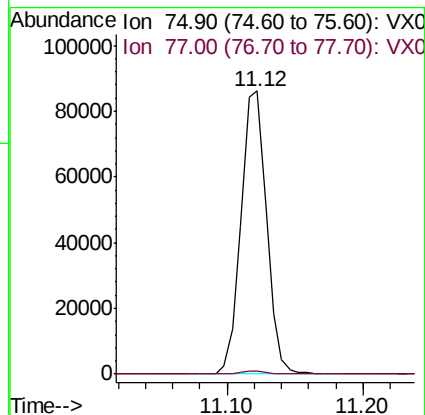
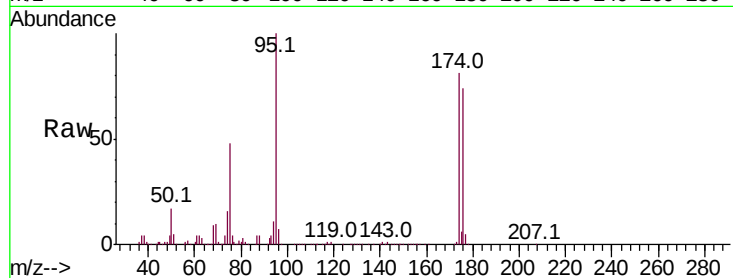
DUP01-20201119

Tot Ion: 75 Resp: 112904

Ion Ratio Lower Upper

75 100

77 1.3 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.053 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

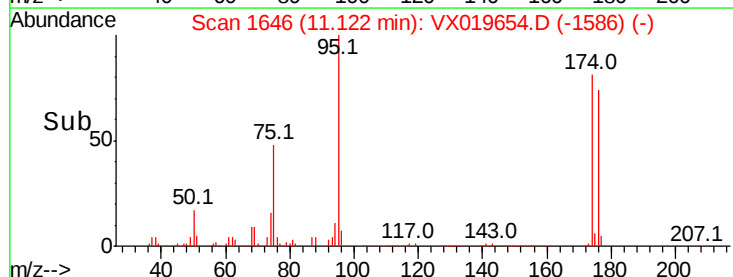
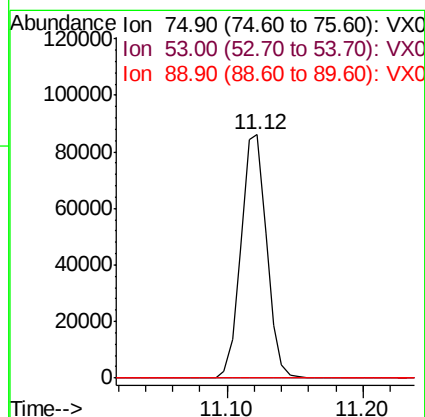
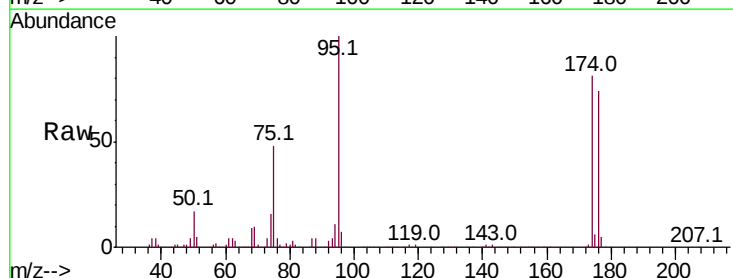
Tgt Ion: 75 Resp: 112904

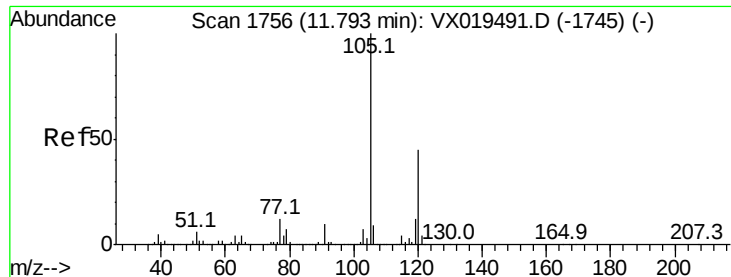
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#84

1,2,4-Trimethylbenzene

Concen: 0.364 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

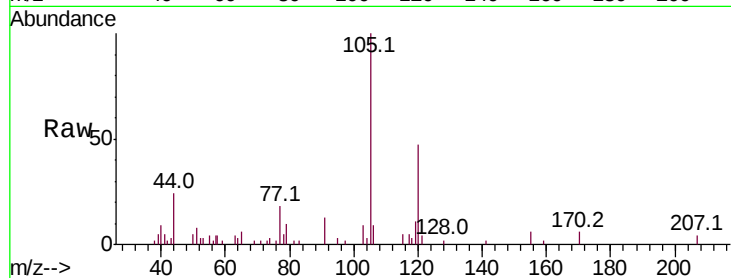
DUP01-20201119

Tot Ion:105 Resp: 4574

Ion Ratio Lower Upper

105 100

120 41.9 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

4000

3000

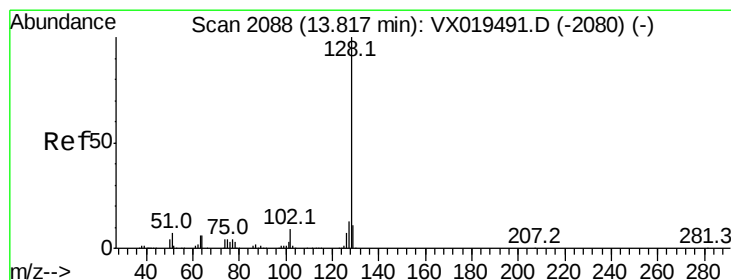
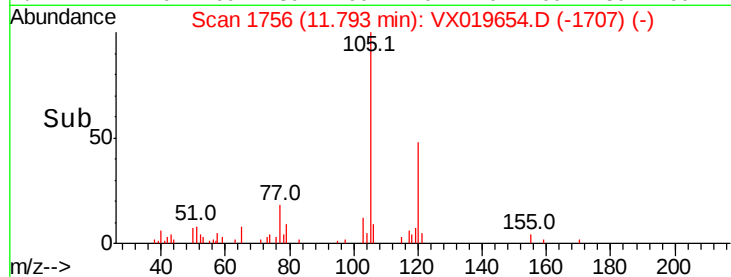
2000

1000

0

Time-->

11.75 11.80 11.85



#95

Naphthalene

Concen: 2.536 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019654.D

Acq: 25 Nov 2020 14:21

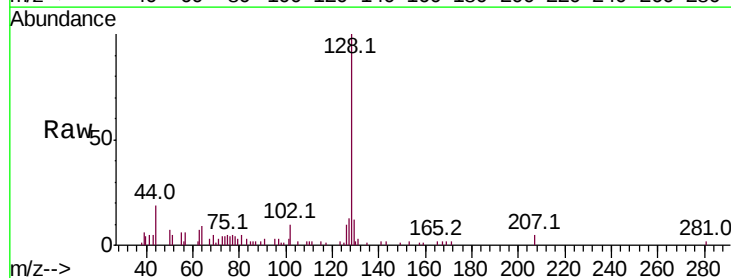
Tgt Ion:128 Resp: 5903

Ion Ratio Lower Upper

128 100

127 14.4 10.3 15.5

129 12.3 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

6000

5000

4000

3000

2000

1000

0

Time-->

13.70 13.80

