

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
 Data File : VU033594.D
 Acq On : 05 Aug 2019 12:05
 Operator : JC/SP
 Sample : VSTD10035
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 05 16:56:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 16:26:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	335818	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	331404	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	182362	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	221032	94.66	ug/L	0.00
7) Chloroethane-d5	1.67	69	263036	107.99	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	413147	92.99	ug/L	0.00
21) 2-Butanone-d5	4.16	46	378082	206.74	ug/L	0.00
24) Chloroform-d	4.62	84	420227	96.65	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	260997	95.19	ug/L	0.00
32) Benzene-d6	5.32	84	841114	97.93	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	267389	96.50	ug/L	0.00
41) Toluene-d8	7.55	98	805519	100.97	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	135794	100.57	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	291983	219.42	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	418023	98.05	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	338408	96.48	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	282165	87.877 ug/L	100
3) Chloromethane	1.32	50	300843	90.241 ug/L	99
5) Vinyl chloride	1.39	62	335873	95.102 ug/L	96
6) Bromomethane	1.62	94	233536	93.236 ug/L	99
8) Chloroethane	1.69	64	289348	110.021 ug/L	99
9) Trichlorofluoromethane	1.87	101	434900	91.151 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	219128	91.035 ug/L	99
12) 1,1-Dichloroethene	2.27	96	215014	92.973 ug/L	99
13) Acetone	2.32	43	300951	167.869 ug/L	98
14) Carbon disulfide	2.46	76	659284	95.759 ug/L	100
15) Methyl Acetate	2.60	43	276268	92.461 ug/L	99
16) Methylene chloride	2.68	84	249186	93.019 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	228757	94.947 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	732790	96.909 ug/L	99
19) 1,1-Dichloroethane	3.42	63	431363	93.344 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	260869	95.608 ug/L	99
22) 2-Butanone	4.24	43	441176	200.312 ug/L	98
23) Bromochloromethane	4.52	128	133086	95.415 ug/L	98
25) Chloroform	4.65	83	443660	91.423 ug/L	98
27) 1,2-Dichloroethane	5.38	62	347928	93.178 ug/L	99
29) Cyclohexane	4.97	56	385575	100.480 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	377938	93.190 ug/L	99
31) Carbon tetrachloride	5.11	117	339592	96.165 ug/L	100
33) Benzene	5.37	78	978690	96.614 ug/L	100
34) Trichloroethene	6.16	95	249869	93.687 ug/L	99
35) Methylcyclohexane	6.40	83	416329	102.817 ug/L	99
37) 1,2-Dichloropropane	6.41	63	260333	93.914 ug/L	100
38) Bromodichloromethane	6.74	83	337776	94.042 ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	424924	100.192 ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	794364	198.275 ug/L	99

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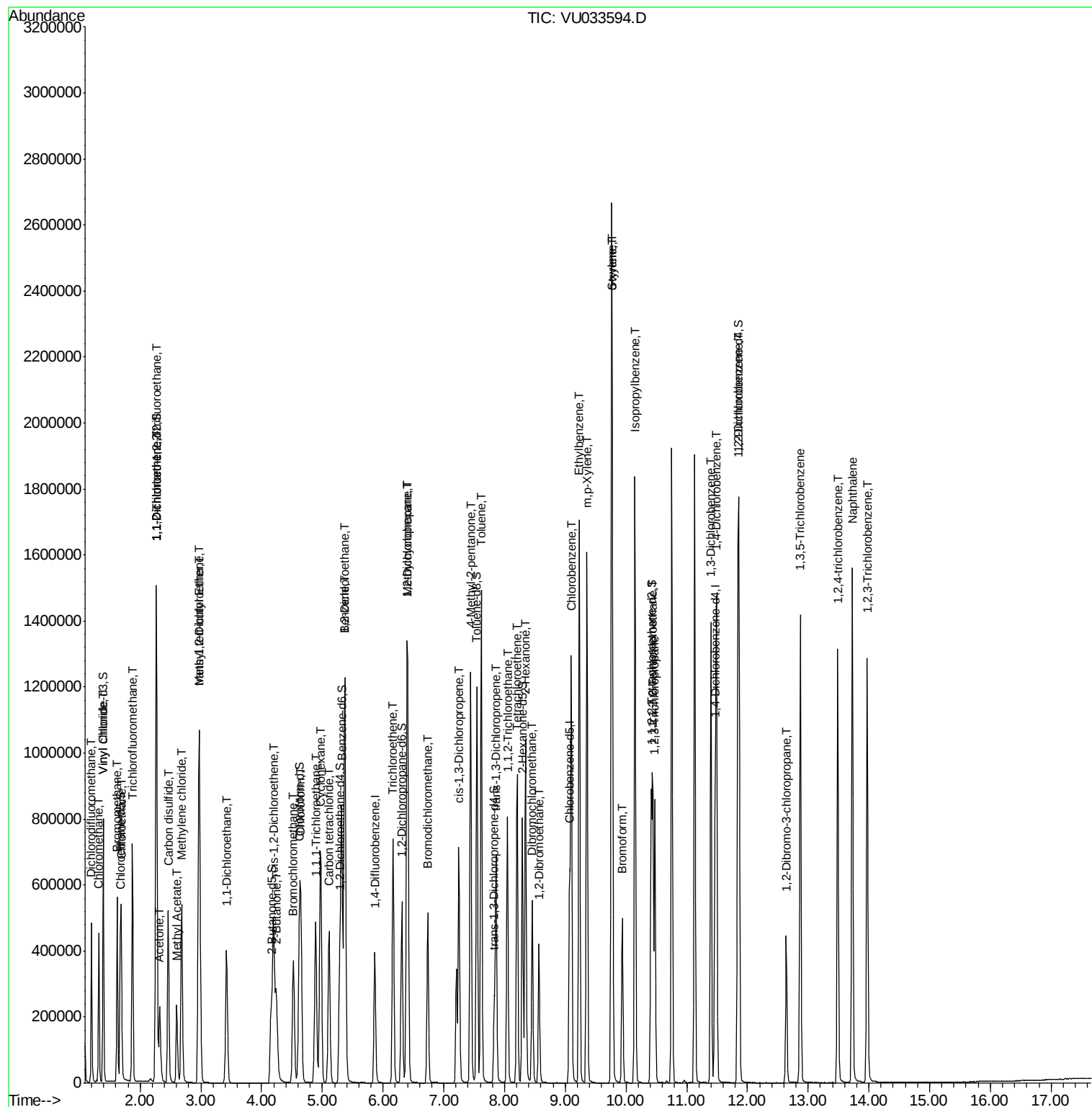
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	1069267	97.543	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	381068	98.389	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	247681	93.430	ug/L	99
46) Tetrachloroethene	8.21	164	208607	97.089	ug/L	98
48) 2-Hexanone	8.35	43	638889	197.978	ug/L	99
49) Dibromochloromethane	8.46	129	285542	95.486	ug/L	98
50) 1,2-Dibromoethane	8.57	107	276934	96.346	ug/L	99
51) Chlorobenzene	9.10	112	680156	94.882	ug/L	99
52) Ethylbenzene	9.23	91	1174506	100.589	ug/L	99
53) m,p-Xylene	9.36	106	452603	101.762	ug/L	99
54) o-xylene	9.76	106	447408	102.050	ug/L	98
55) Styrene	9.77	104	770824	103.689	ug/L	97
56) Isopropylbenzene	10.15	105	1165651	102.663	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	446201	94.028	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	348233	93.059	ug/L	99
61) Bromoform	9.94	173	225328	93.940	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	565466	93.761	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	569130	92.145	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	568199	94.151	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	109700	94.797	ug/L	100
67) 1,3,5-Trichlorobenzene	12.87	180	448745	96.365	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	406739	103.873	ug/L	100
69) Naphthalene	13.73	128	1227947	107.957	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	410810	98.150	ug/L	100

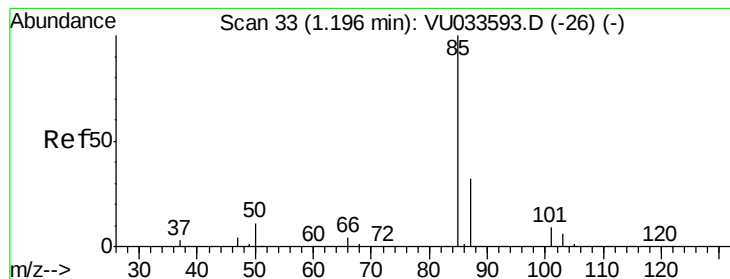
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 87.877 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

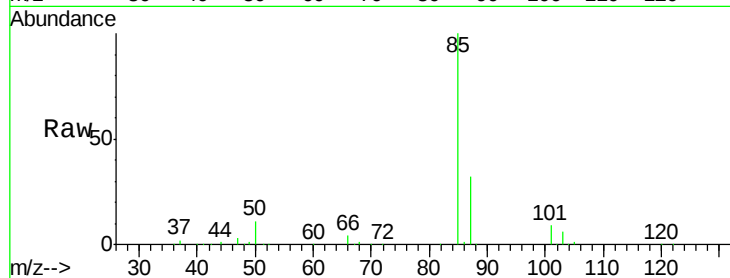
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 282165

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033594.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033594.D (-1) (-)

1.20

250000

200000

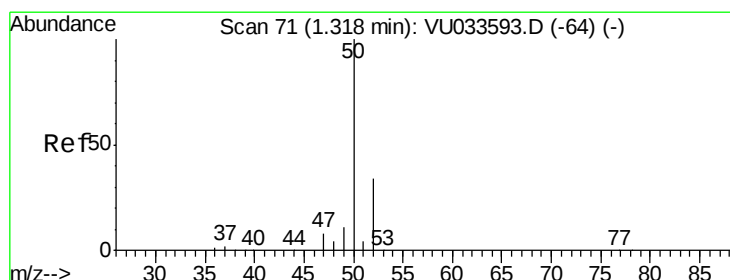
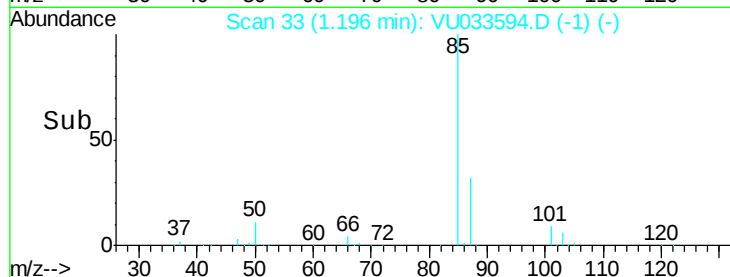
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 90.241 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033594.D

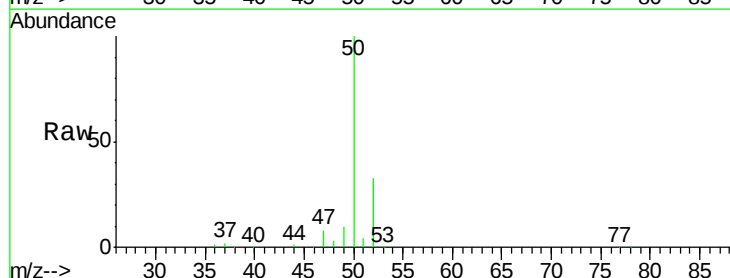
Acq: 05 Aug 2019 12:05

Tgt Ion: 50 Resp: 300843

Ion Ratio Lower Upper

50 100

52 32.9 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU033594.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033594.D (-1) (-)

1.32

300000

250000

200000

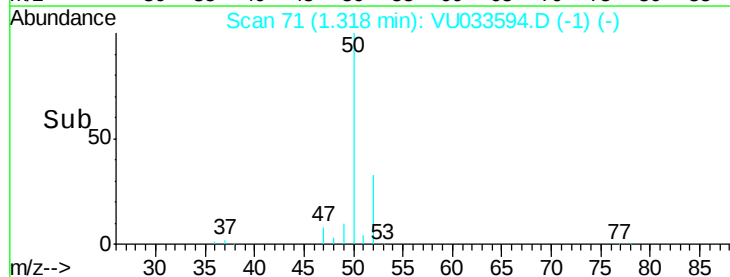
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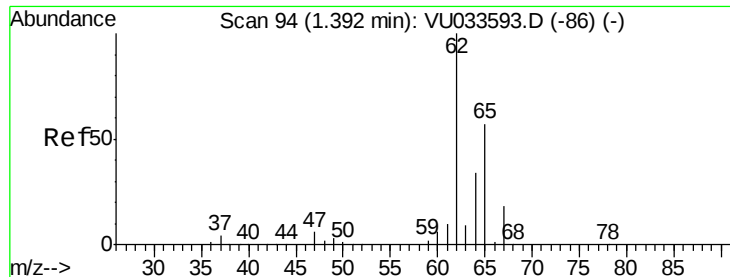
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 95.102 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

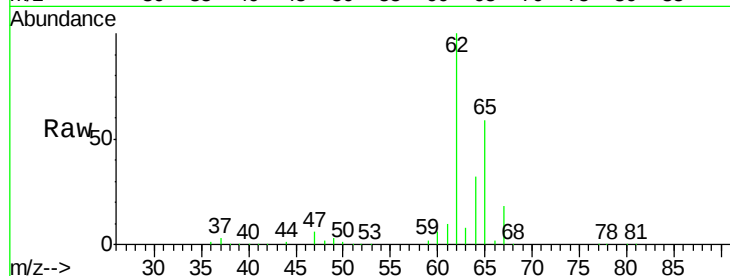
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 335873

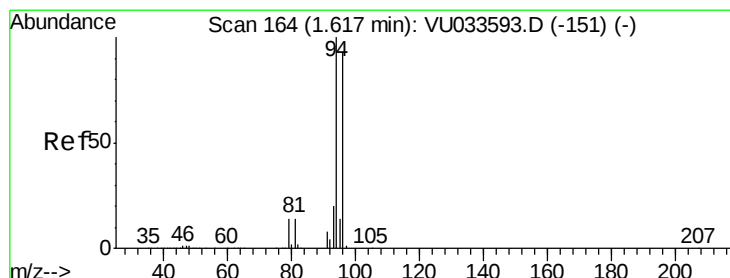
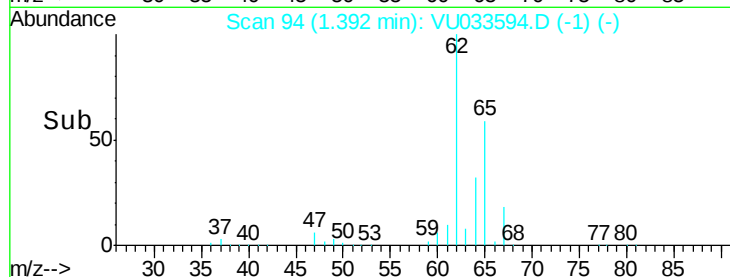
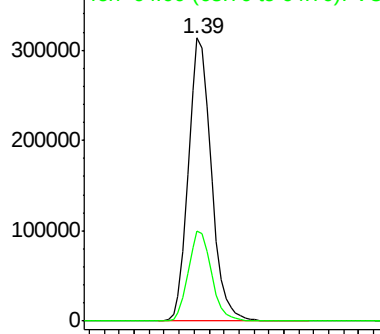
Ion Ratio Lower Upper

62 100

64 31.9 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 93.236 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033594.D

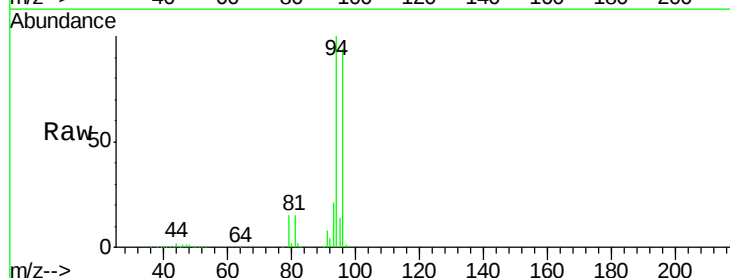
Acq: 05 Aug 2019 12:05

Tgt Ion: 94 Resp: 233536

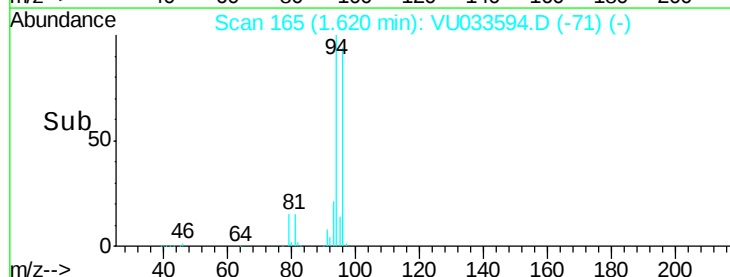
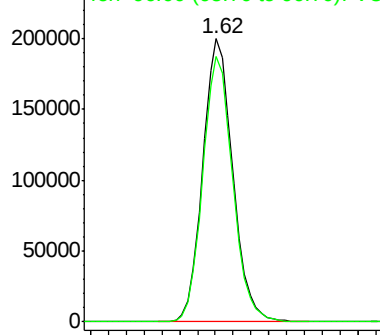
Ion Ratio Lower Upper

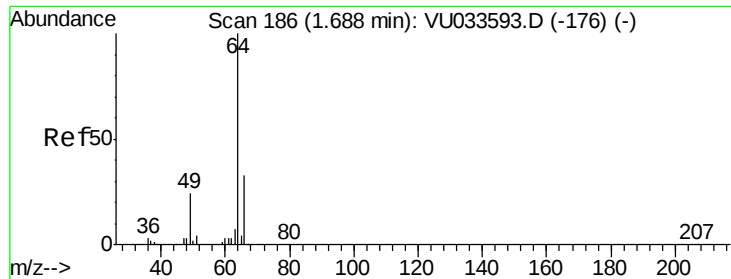
94 100

96 93.9 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 110.021 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

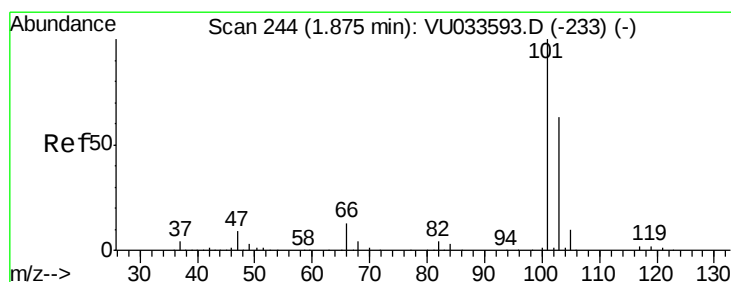
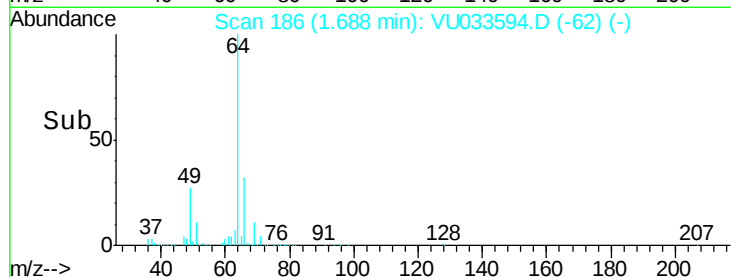
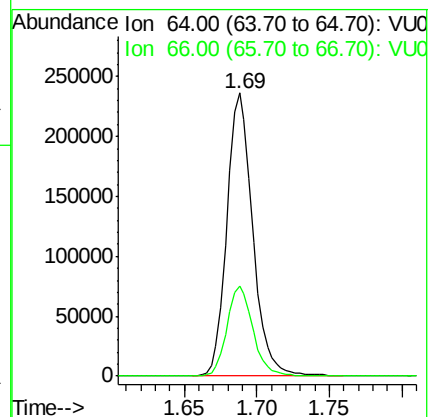
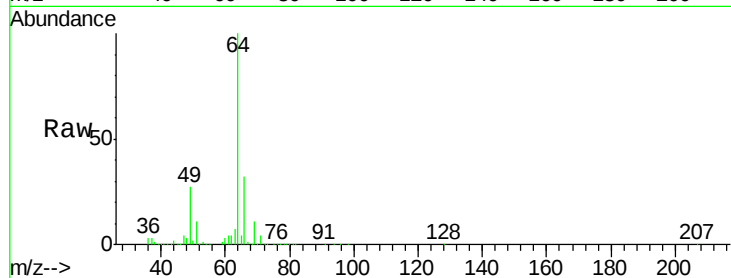
ClientSampled :

Tot Ion: 64 Resp: 289348

Ion Ratio Lower Upper

64 100

66 32.0 22.9 42.5



#9

Trichlorofluoromethane

Concen: 91.151 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033594.D

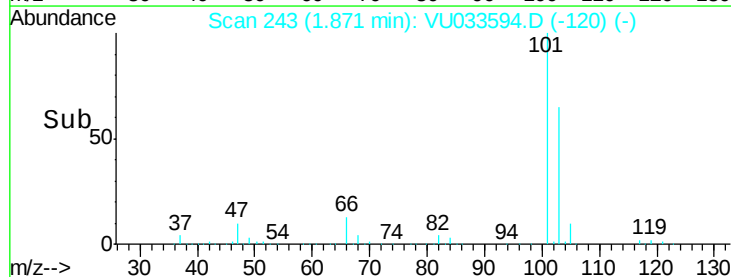
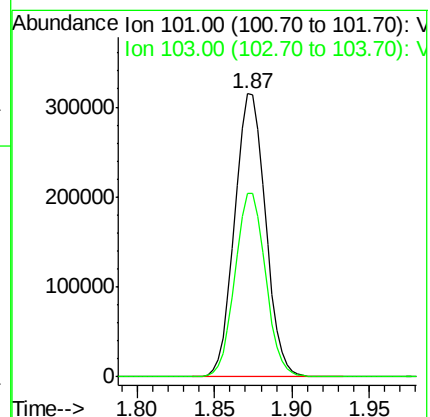
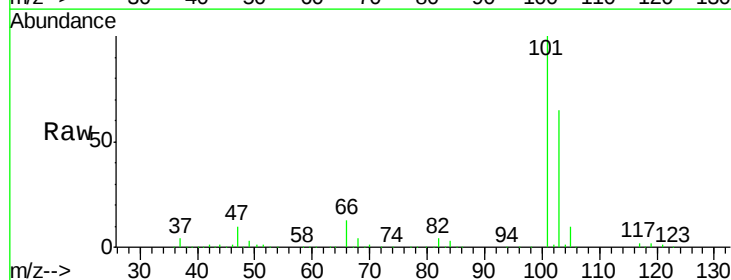
Acq: 05 Aug 2019 12:05

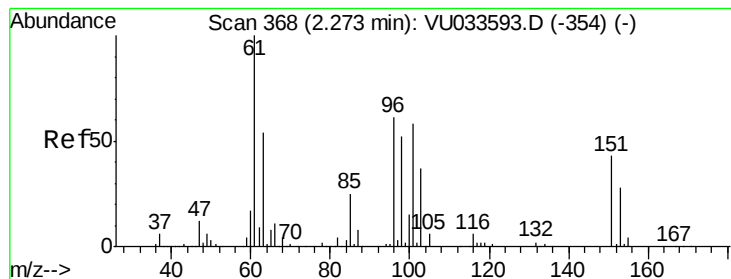
Tgt Ion:101 Resp: 434900

Ion Ratio Lower Upper

101 100

103 64.3 51.0 76.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 91.035 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

ClientSampleId :

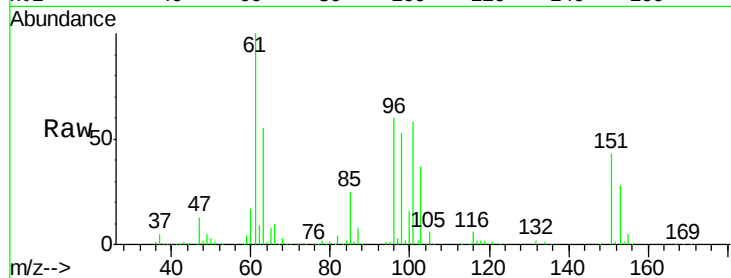
Tot Ion:101 Resp: 219128

Ion Ratio Lower Upper

101 100

85 43.9 34.3 51.5

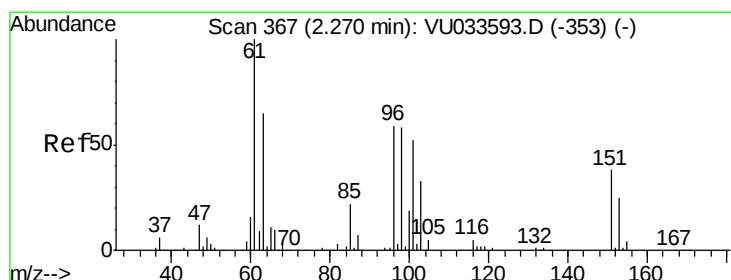
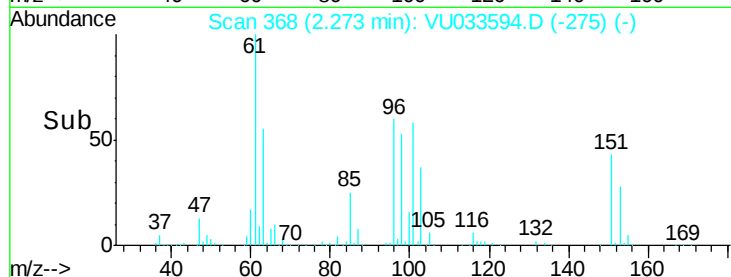
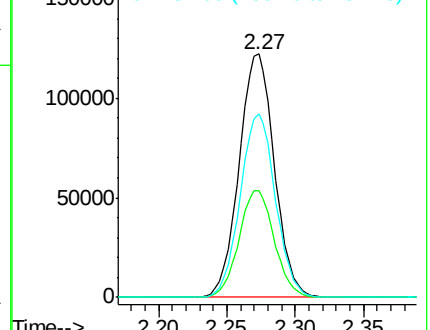
151 75.2 60.2 90.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 92.973 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

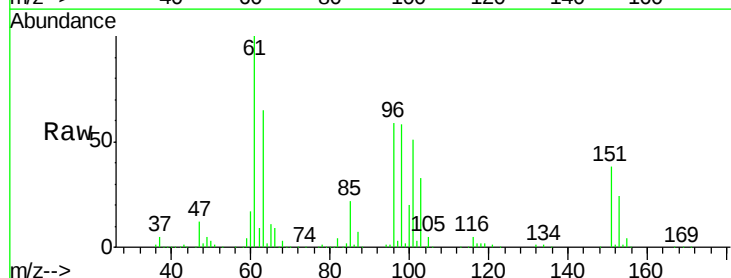
Tgt Ion: 96 Resp: 215014

Ion Ratio Lower Upper

96 100

61 169.3 119.1 221.3

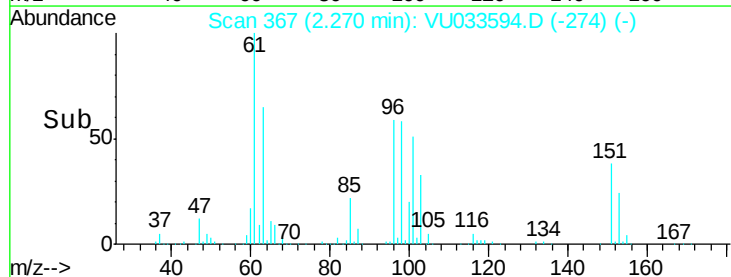
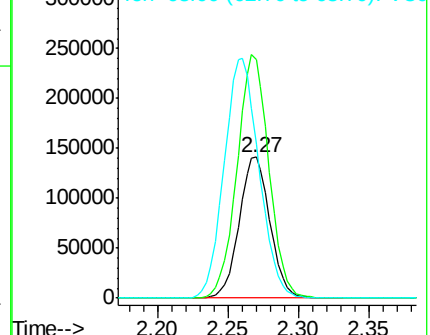
63 109.4 77.9 144.7

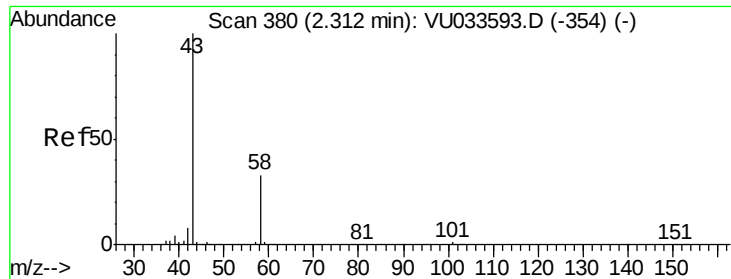


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 167.869 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

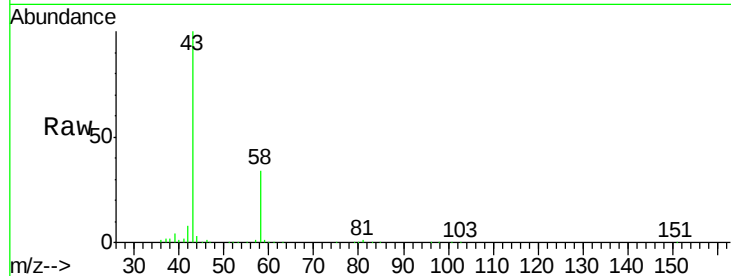
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 300951

Ion Ratio Lower Upper

43 100

58 33.6 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033594.D (-354) (-)

Ion 58.00 (57.70 to 58.70): VU033594.D (-354) (-)

150000

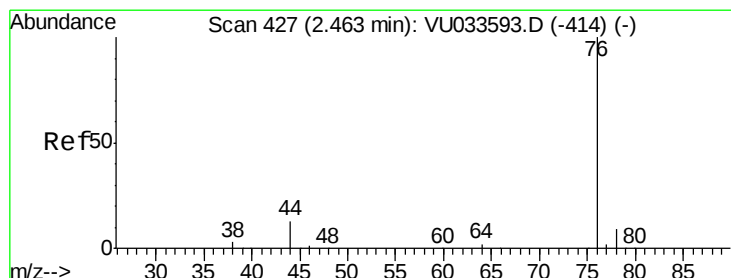
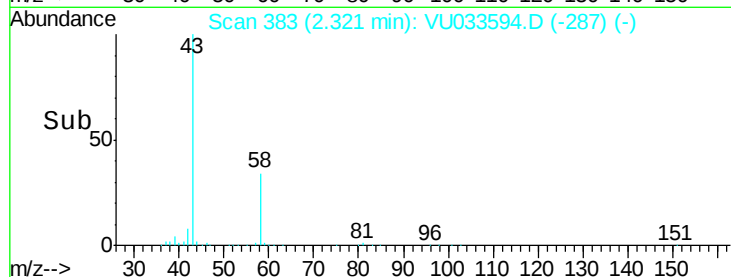
100000

50000

0

2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 95.759 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033594.D

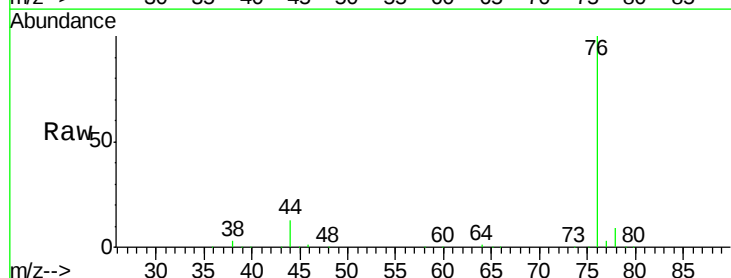
Acq: 05 Aug 2019 12:05

Tgt Ion: 76 Resp: 659284

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033594.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033594.D (-334) (-)

400000

300000

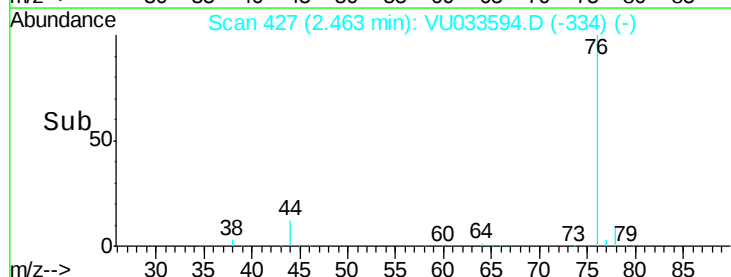
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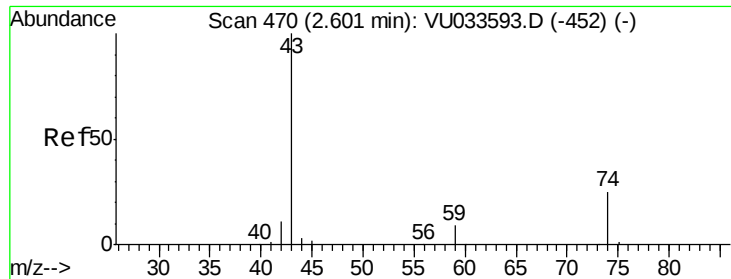
100000

0

2.40 2.50 2.60

Time-->

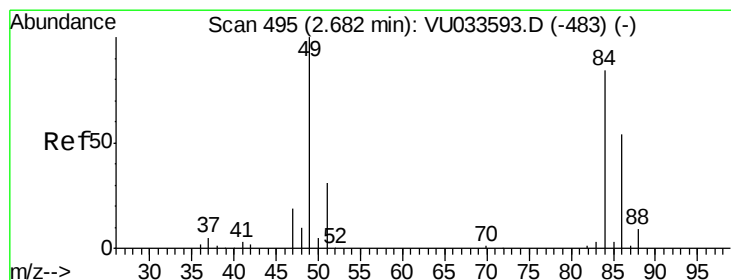
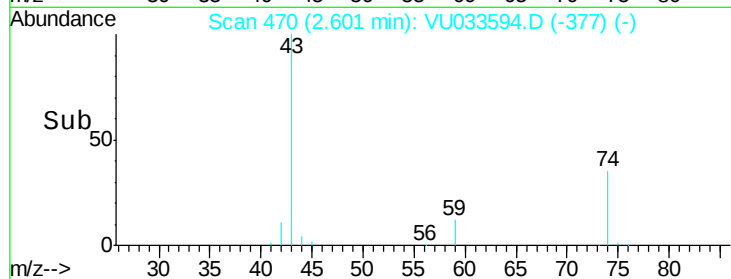
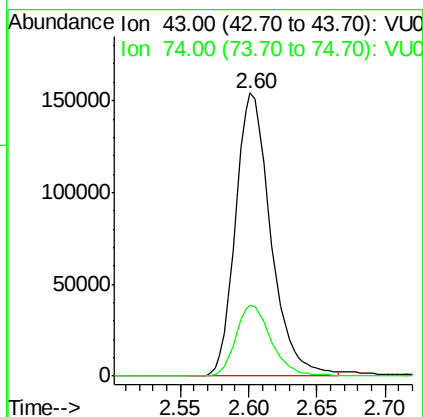
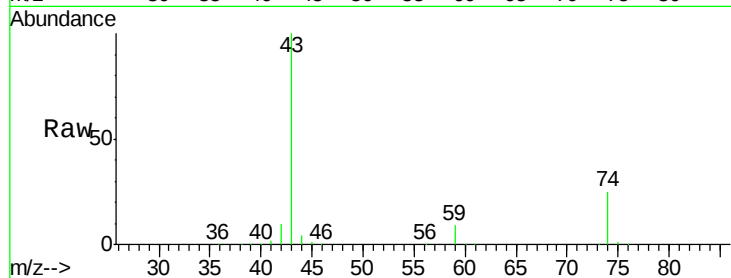




#15
Methyl Acetate
Concen: 92.461 ug/L
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU033594.D
Acq: 05 Aug 2019 12:05

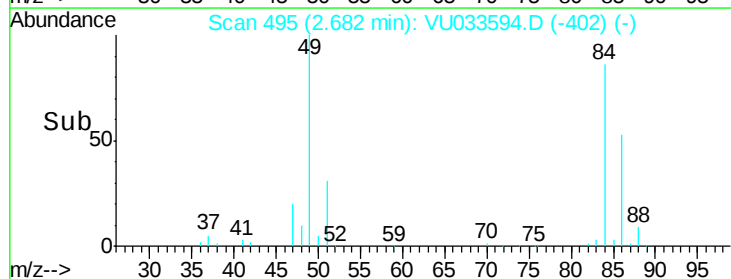
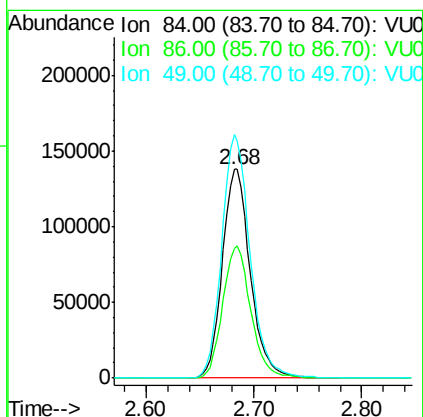
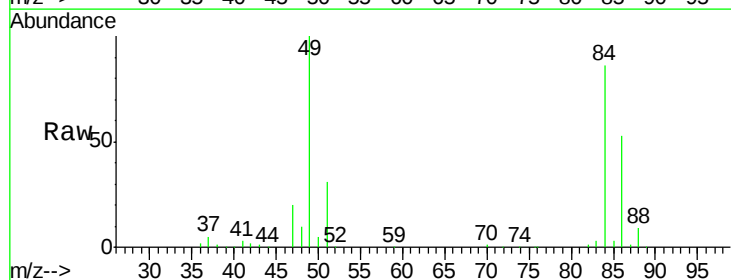
Instrument :
MSVOA_U
ClientSampleId :

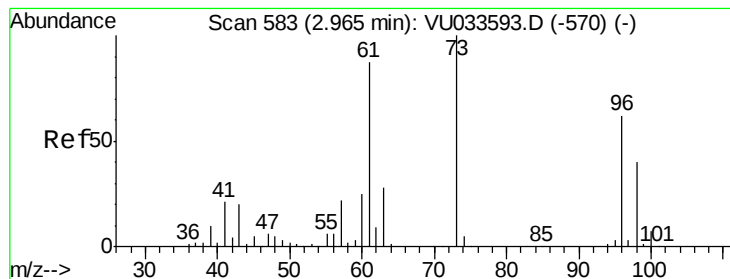
Tot Ion: 43 Resp: 276268
Ion Ratio Lower Upper
43 100
74 25.2 19.8 29.6



#16
Methylene chloride
Concen: 93.019 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033594.D
Acq: 05 Aug 2019 12:05

Tgt Ion: 84 Resp: 249186
Ion Ratio Lower Upper
84 100
86 62.3 44.9 83.5
49 116.6 83.4 155.0





#17

trans-1,2-Dichloroethene

Concen: 94.947 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

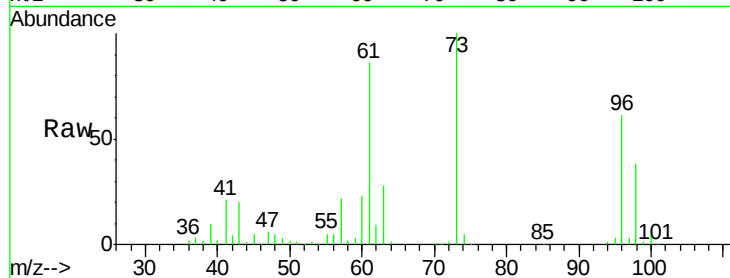
Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 228757

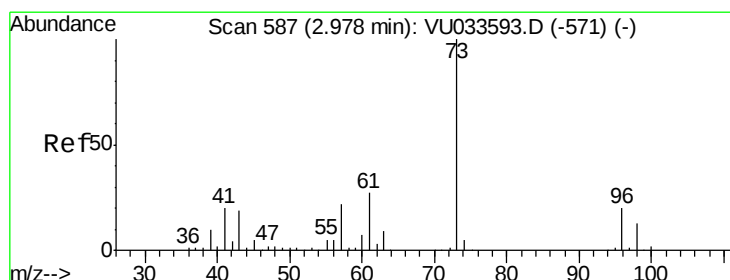
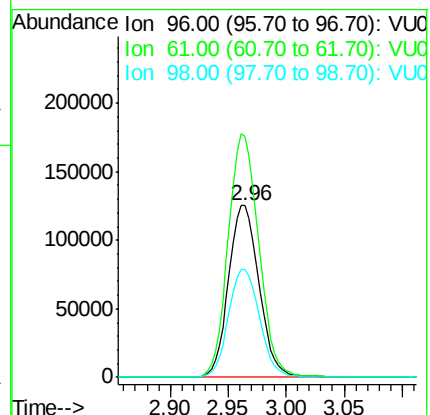
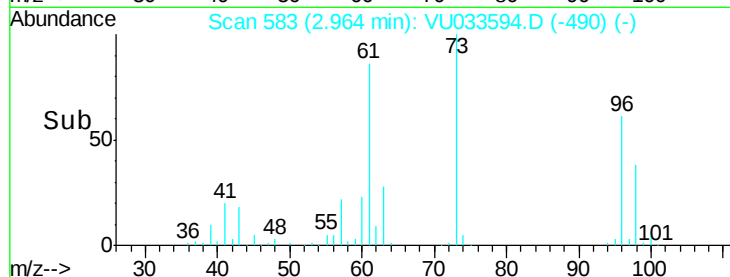
Ion	Ratio	Lower	Upper
96	100		
61	140.7	98.8	183.4
98	62.7	44.9	83.5



Abundance Ion 96.00 (95.70 to 96.70): VU033593.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033593.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033593.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 96.909 ug/L

RT: 2.98 min Scan# 587

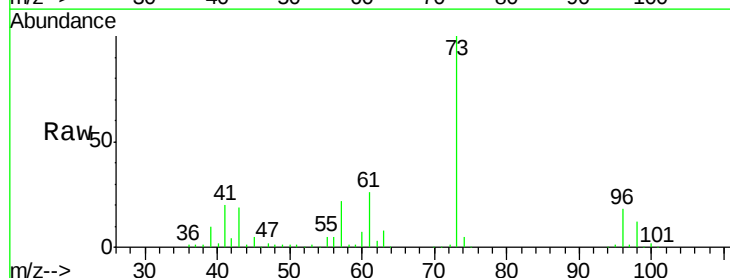
Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Tgt Ion: 73 Resp: 732790

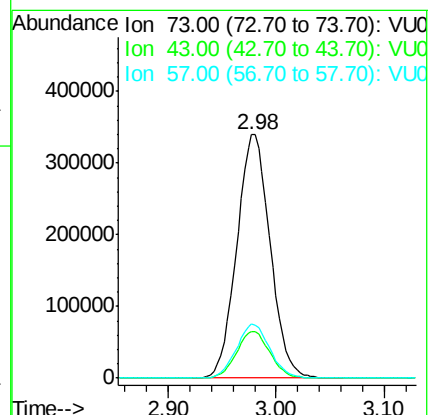
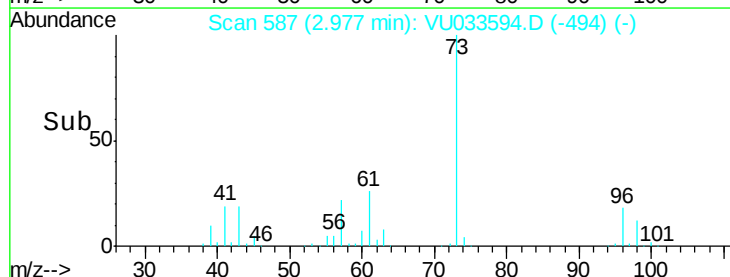
Ion	Ratio	Lower	Upper
73	100		
43	19.1	15.8	23.6
57	22.1	17.5	26.3

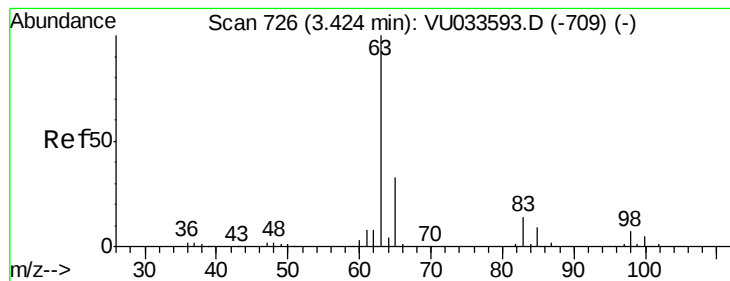


Abundance Ion 73.00 (72.70 to 73.70): VU033593.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033593.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033593.D (-571) (-)





#19

1,1-Dichloroethane

Concen: 93.344 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :
MSVOA_U
ClientSampled :

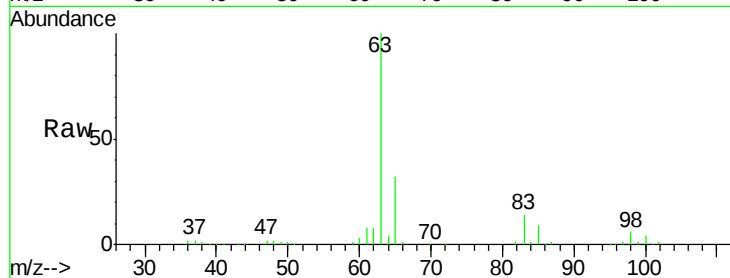
Tot Ion: 63 Resp: 431363

Ion Ratio Lower Upper

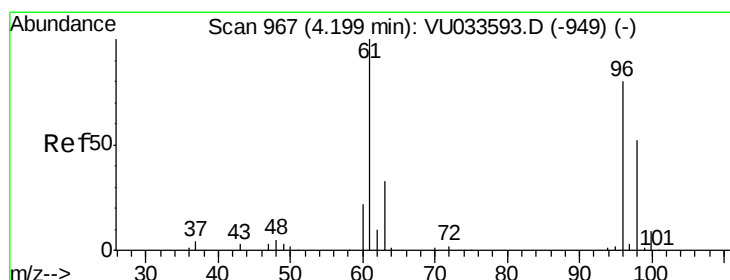
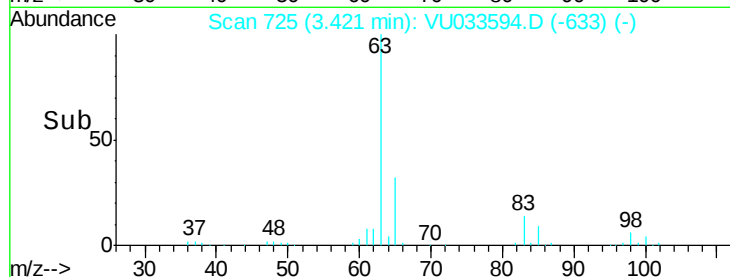
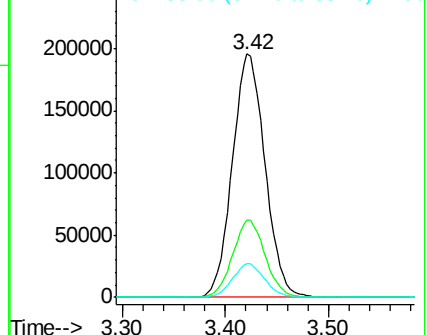
63 100

65 31.7 22.9 42.5

83 13.9 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 95.608 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

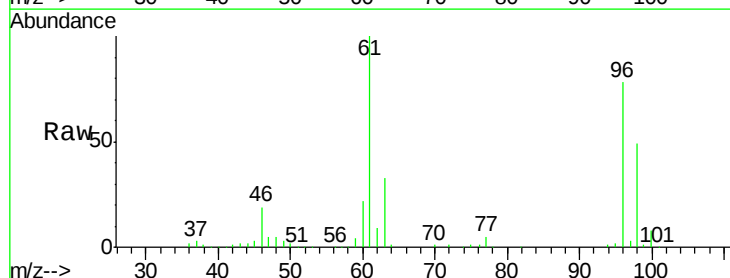
Tgt Ion: 96 Resp: 260869

Ion Ratio Lower Upper

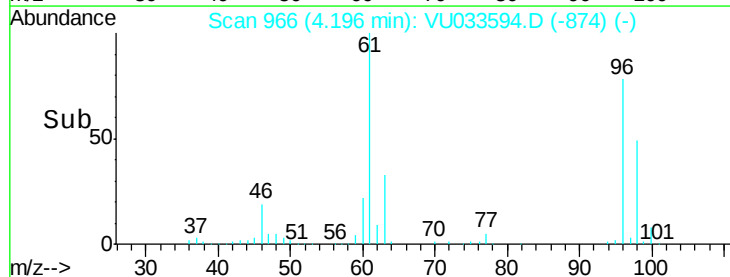
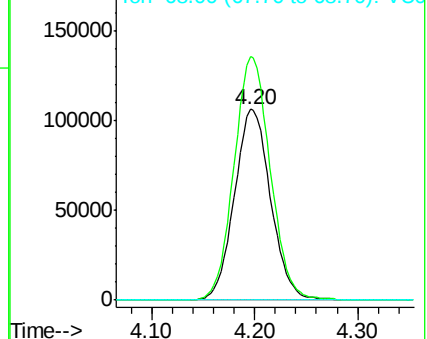
96 100

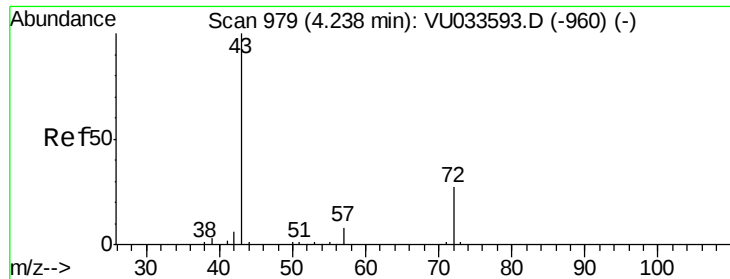
61 127.6 88.2 163.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 200.312 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

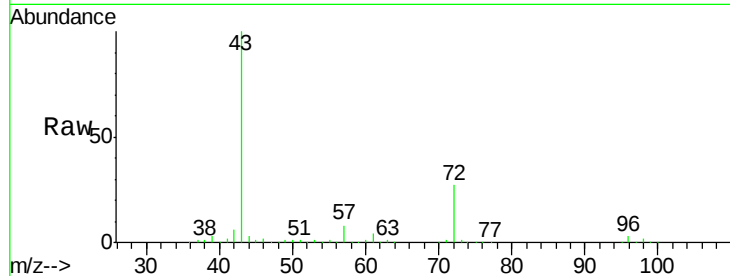
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 441176

Ion Ratio Lower Upper

43 100

72 28.5 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033594.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VU033594.D (-886) (-)

4.24

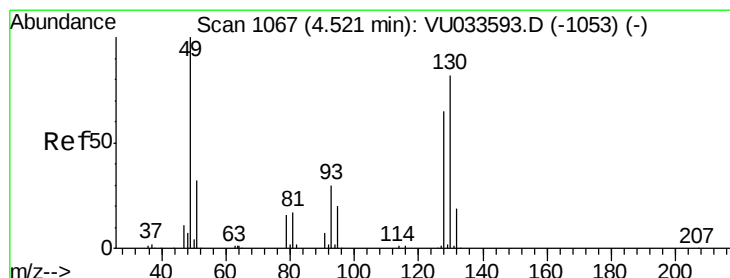
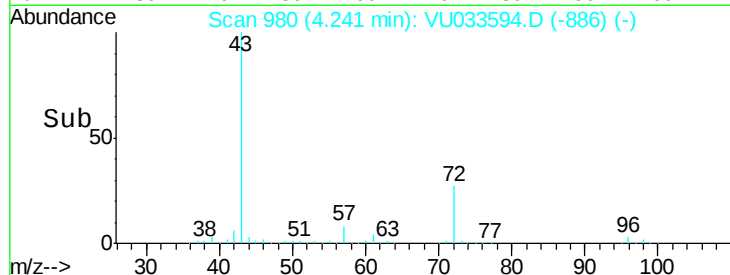
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 95.415 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Tgt Ion:128 Resp: 133086

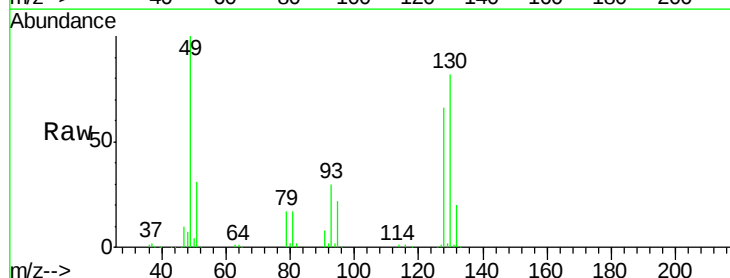
Ion Ratio Lower Upper

128 100

49 152.5 108.1 200.9

130 125.2 89.0 165.4

51 47.9 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU033594.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VU033594.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VU033594.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VU033594.D (-974) (-)

120000

100000

80000

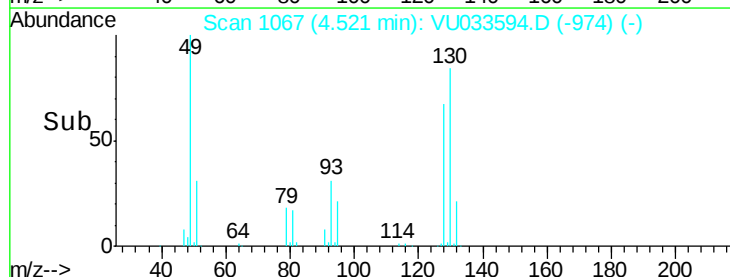
60000

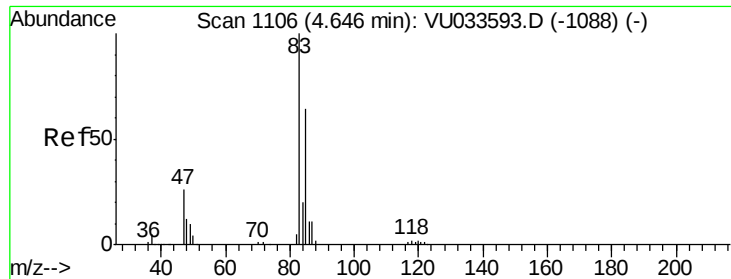
40000

20000

0

Time-->





#25

Chloroform

Concen: 91.423 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

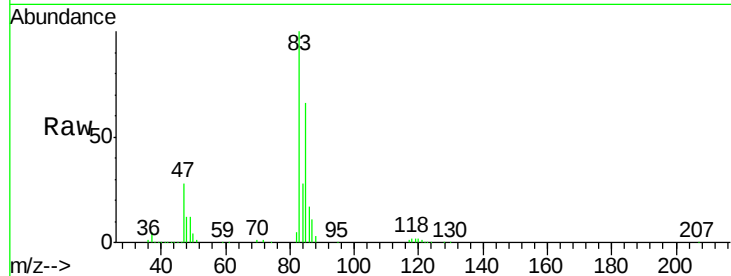
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 443660

Ion Ratio Lower Upper

83 100

85 65.5 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU033593.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU033593.D (-1088) (-)

4.65

200000

150000

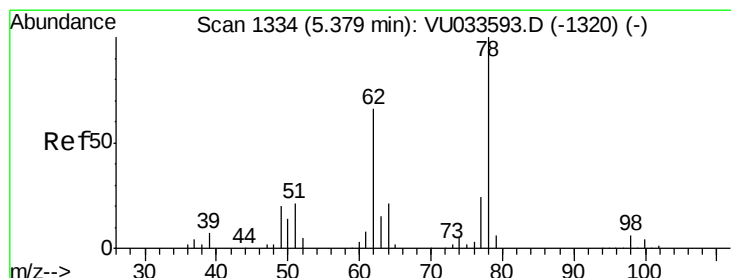
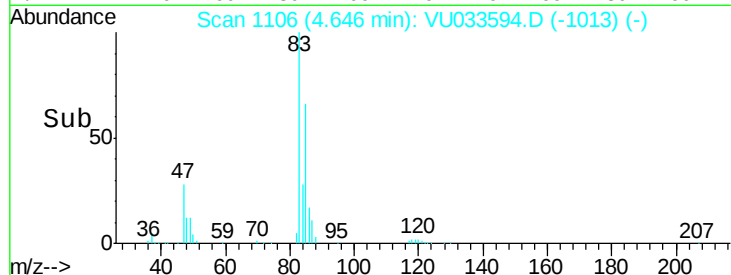
100000

50000

0

4.55 4.60 4.65 4.70 4.75

Time-->



#27

1,2-Dichloroethane

Concen: 93.178 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU033594.D

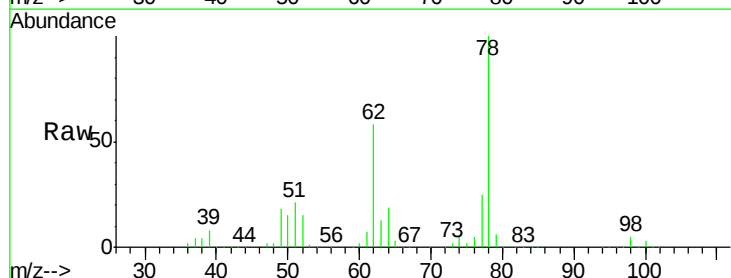
Acq: 05 Aug 2019 12:05

Tgt Ion: 62 Resp: 347928

Ion Ratio Lower Upper

62 100

98 9.0 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU033593.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033593.D (-1320) (-)

5.38

150000

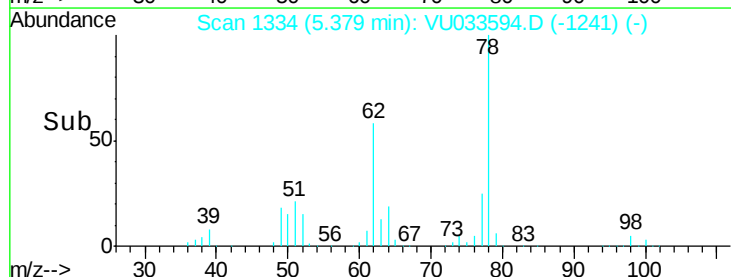
100000

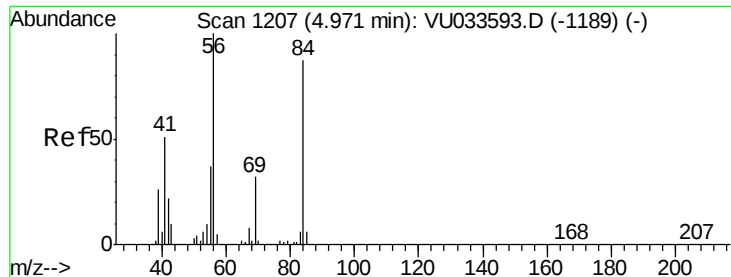
50000

0

5.30 5.35 5.40 5.45 5.50

Time-->

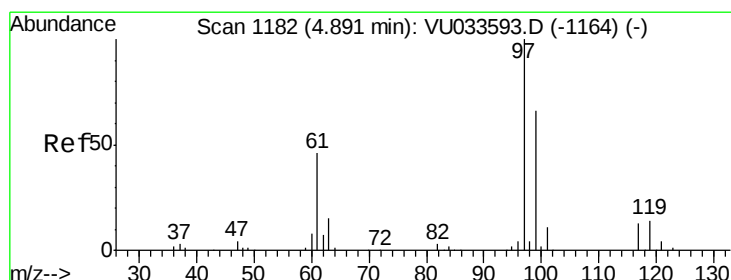
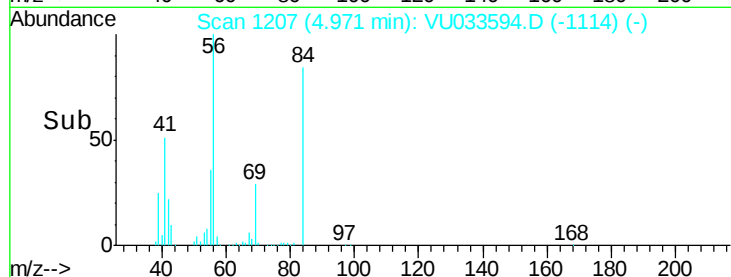
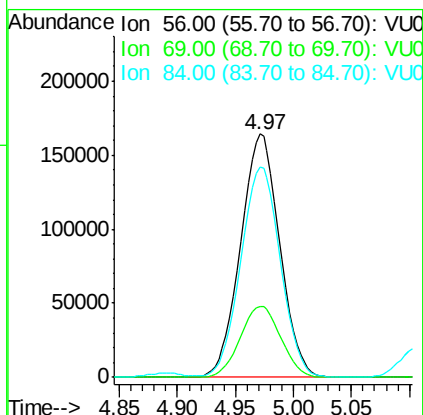
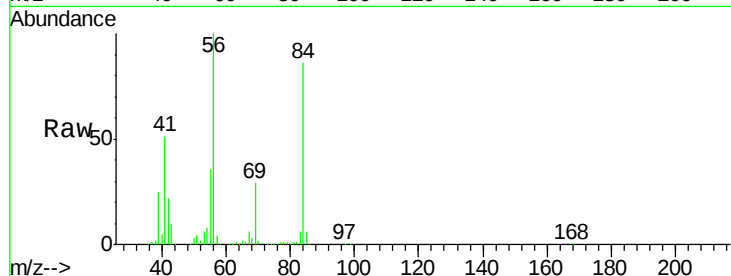




#29
Cyclohexane
Concen: 100.480 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033594.D
Acq: 05 Aug 2019 12:05

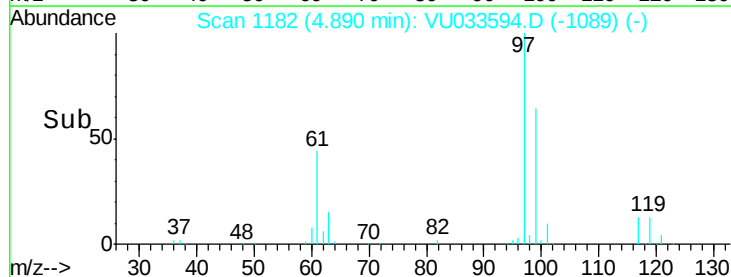
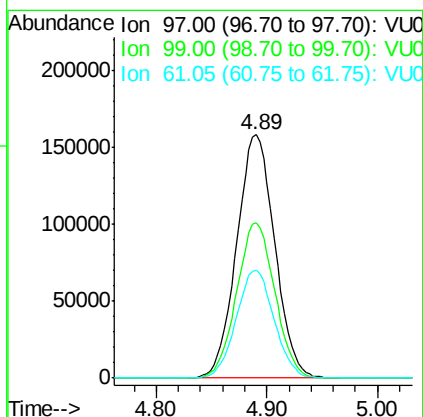
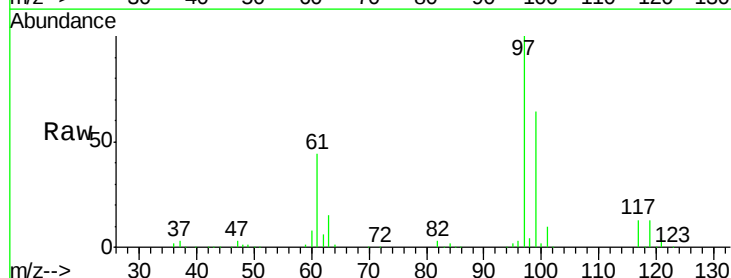
Instrument :
MSVOA_U
ClientSampleId :

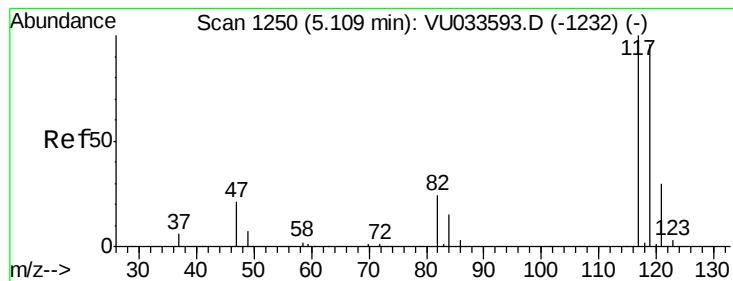
Tot Ion: 56 Resp: 385575
Ion Ratio Lower Upper
56 100
69 30.2 24.7 37.1
84 87.7 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 93.190 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033594.D
Acq: 05 Aug 2019 12:05

Tgt Ion: 97 Resp: 377938
Ion Ratio Lower Upper
97 100
99 64.0 51.8 77.6
61 44.1 36.2 54.2





#31

Carbon tetrachloride

Concen: 96.165 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

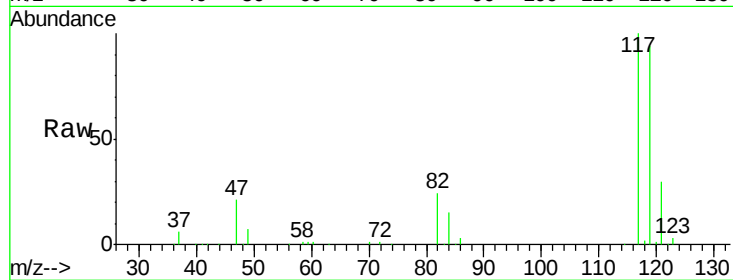
ClientSampleId :

Tot Ion:117 Resp: 339592

Ion Ratio Lower Upper

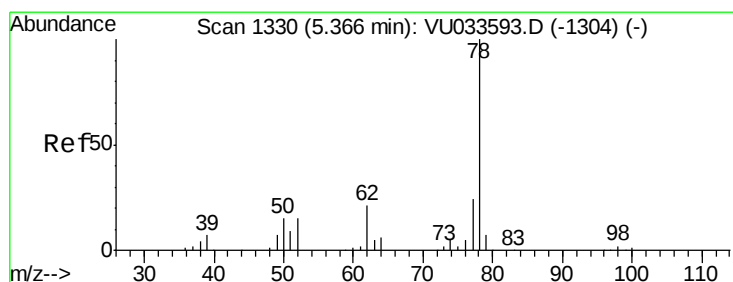
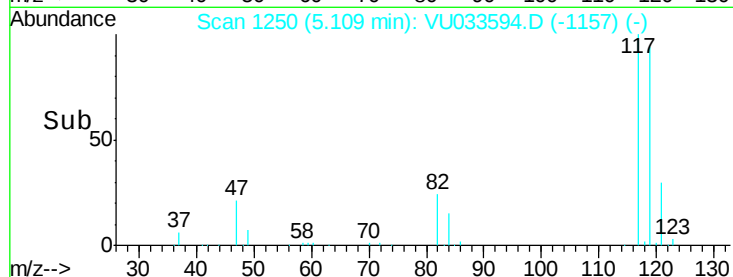
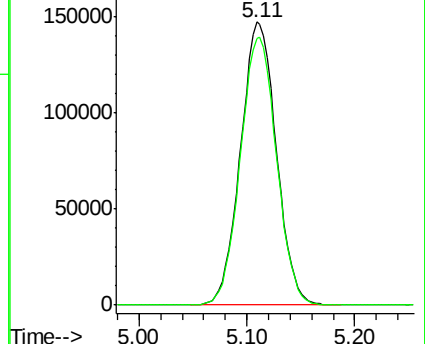
117 100

119 95.7 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 96.614 ug/L

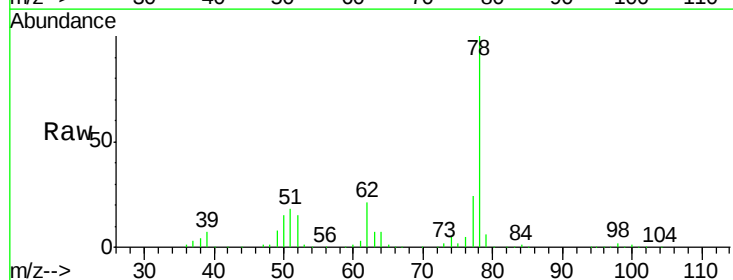
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033594.D

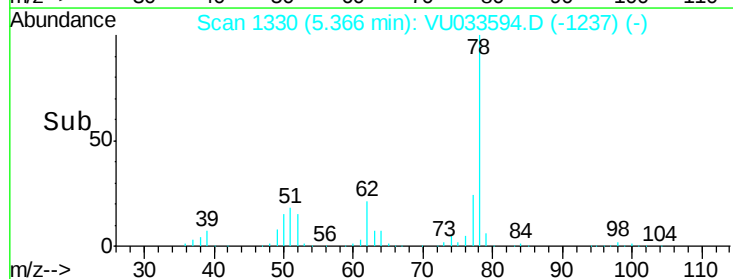
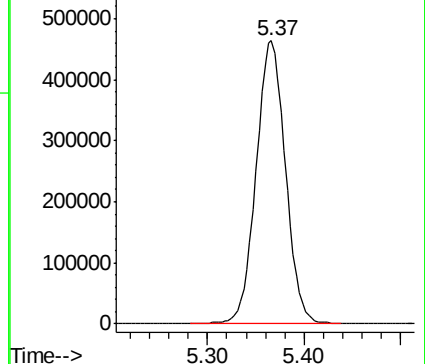
Acq: 05 Aug 2019 12:05

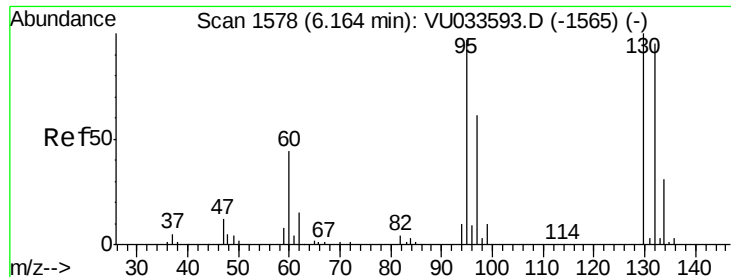
Tgt Ion: 78 Resp: 978690



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

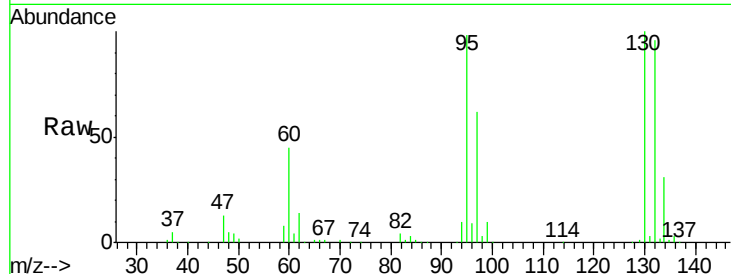




#34
 Trichloroethene
 Concen: 93.687 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

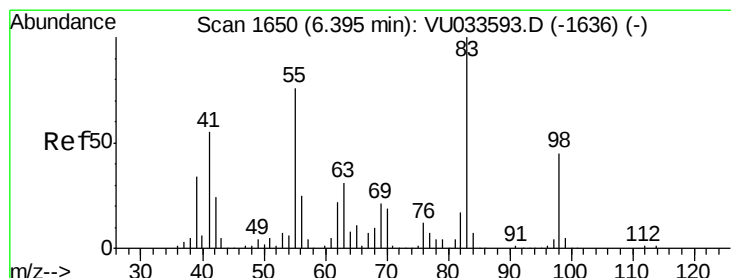
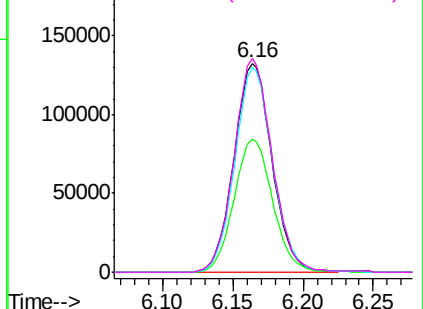
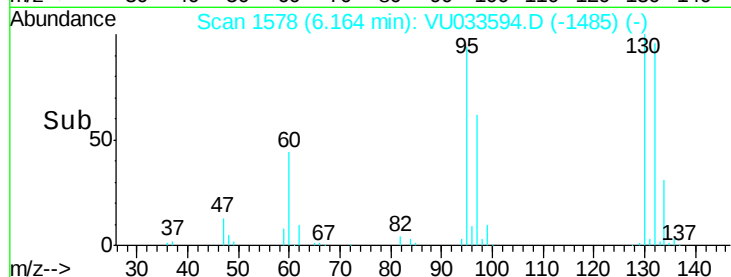
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	95	Resp:	249869
Ion	Ratio	Lower	Upper
95	100		
97	63.7	43.8	81.4
132	98.0	68.6	127.4
130	102.2	72.2	134.2



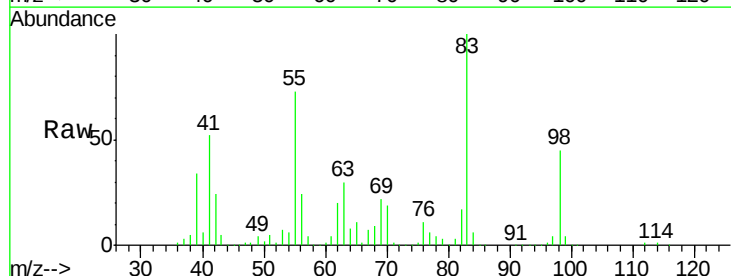
Abundance

Ion 95.00 (94.70 to 95.70): VU033594.D (-1485) (-)



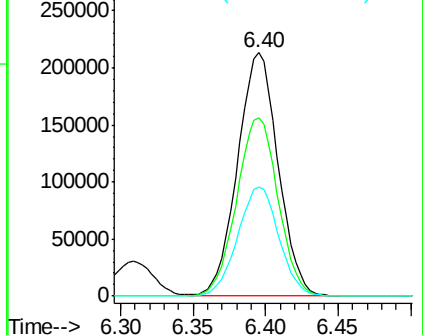
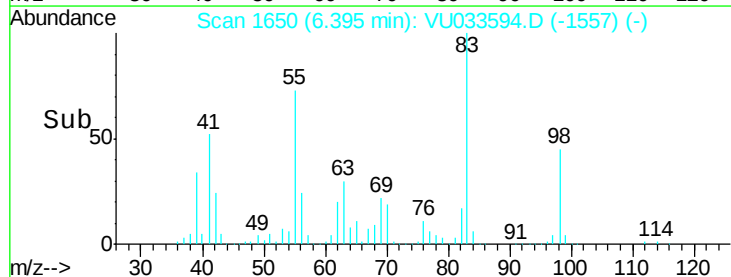
#35
 Methylcyclohexane
 Concen: 102.817 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

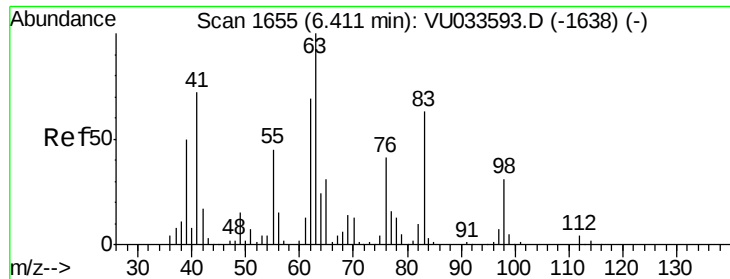
Tgt Ion:	83	Resp:	416329
Ion	Ratio	Lower	Upper
83	100		
55	74.6	60.1	90.1
98	45.4	36.8	55.2



Abundance

Ion 83.00 (82.70 to 83.70): VU033594.D (-1557) (-)





#37

1,2-Dichloropropane

Concen: 93.914 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

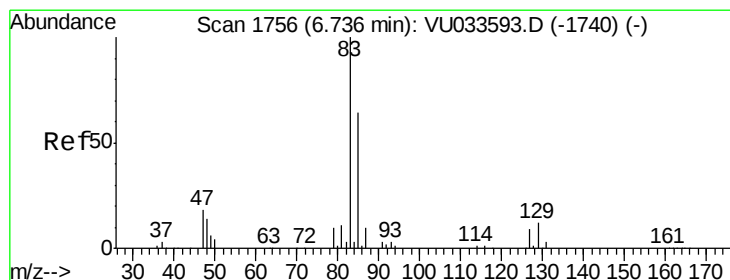
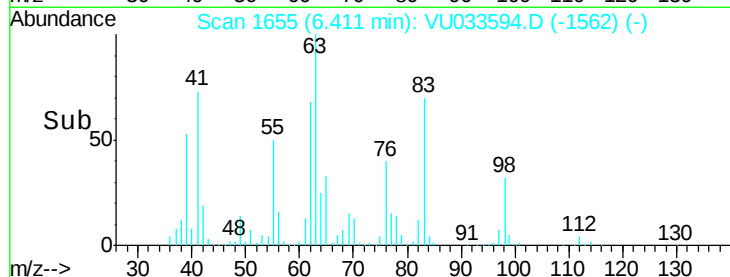
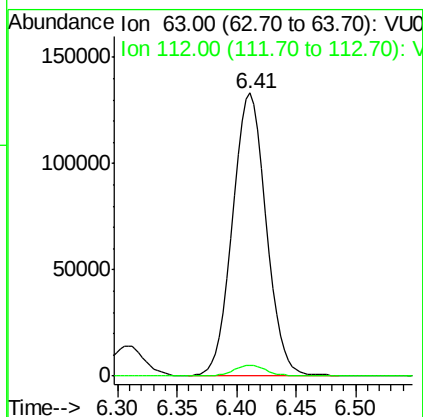
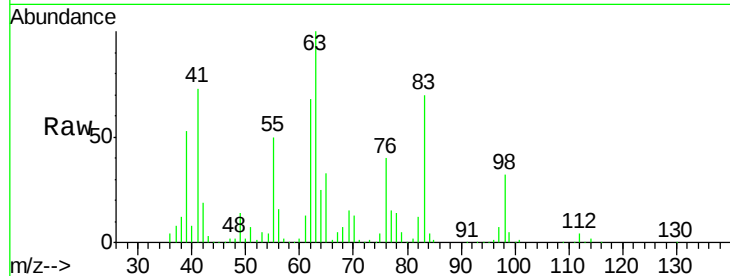
ClientSampleId :

Tot Ion: 63 Resp: 260333

Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.6



#38

Bromodichloromethane

Concen: 94.042 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

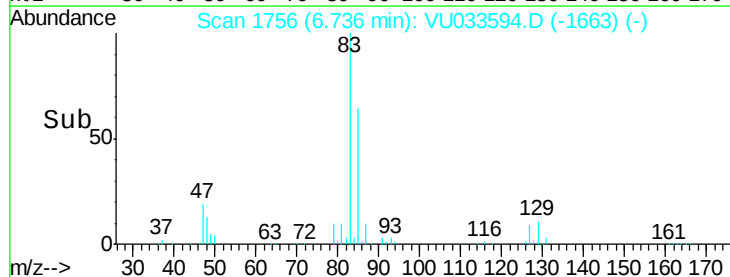
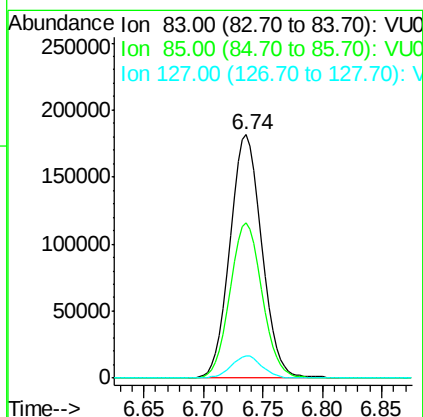
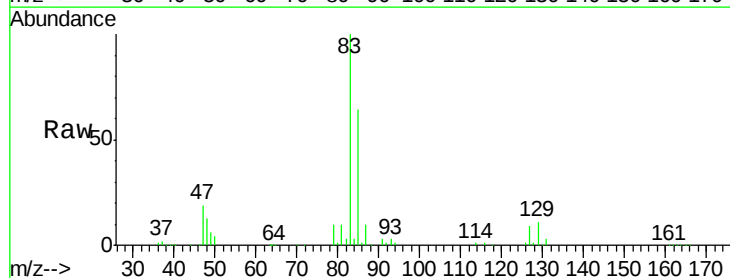
Tgt Ion: 83 Resp: 337776

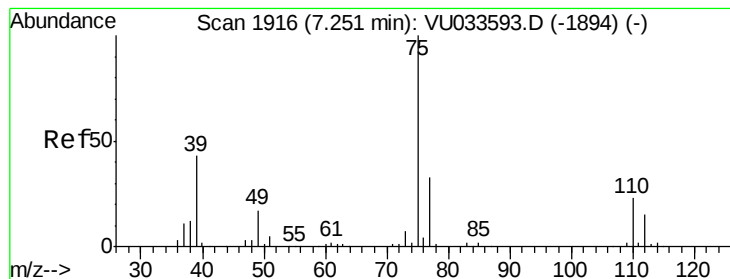
Ion Ratio Lower Upper

83 100

85 63.8 44.9 83.5

127 9.1 7.0 10.4



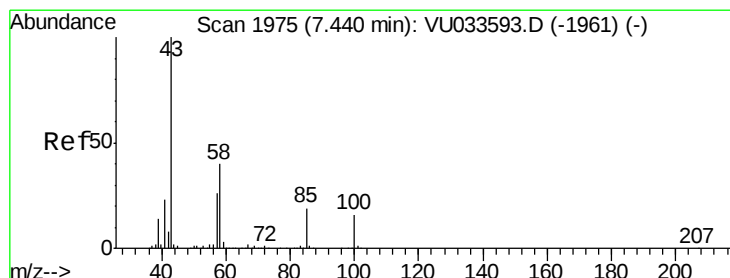
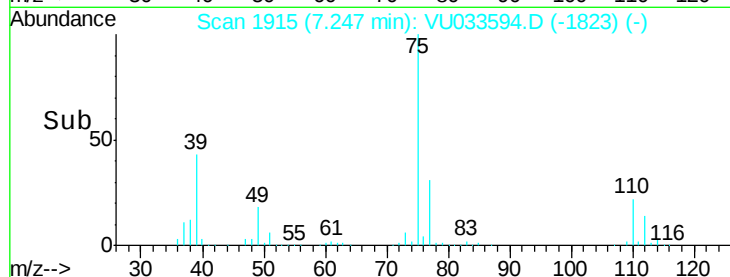
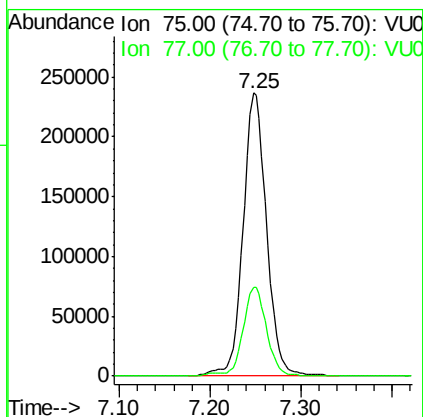
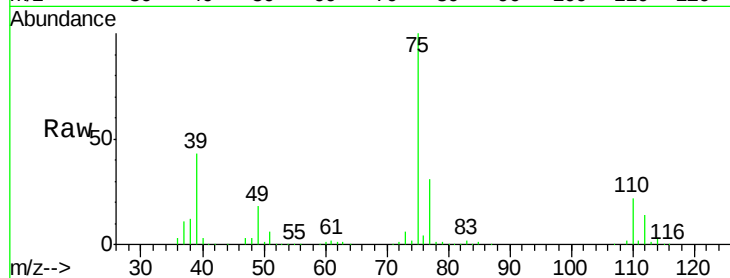


#39

cis-1,3-Dichloropropene
 Concen: 100.192 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

Instrument :
 MSVOA_U
 ClientSampled :

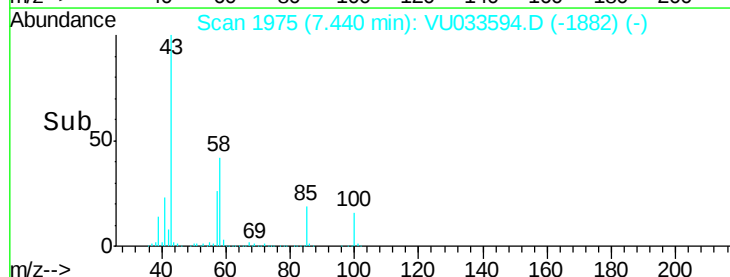
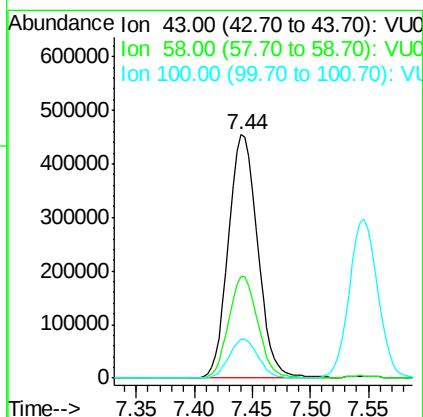
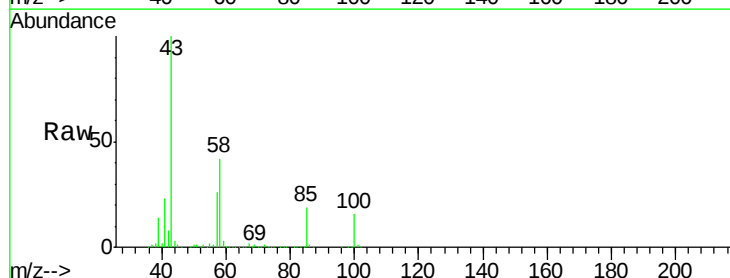
Tot Ion: 75 Resp: 424924
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.7 42.3

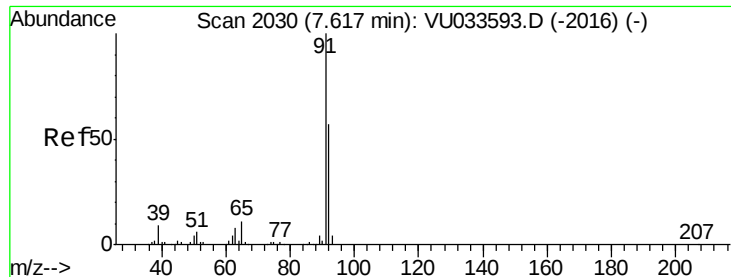


#40

4-Methyl-2-pentanone
 Concen: 198.275 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

Tgt Ion: 43 Resp: 794364
 Ion Ratio Lower Upper
 43 100
 58 41.4 32.5 48.7
 100 15.8 12.6 18.8





#42

Toluene

Concen: 97.543 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

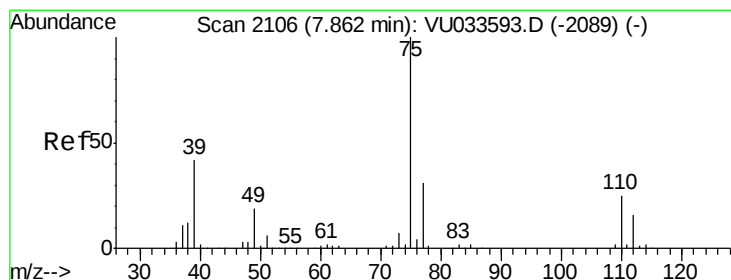
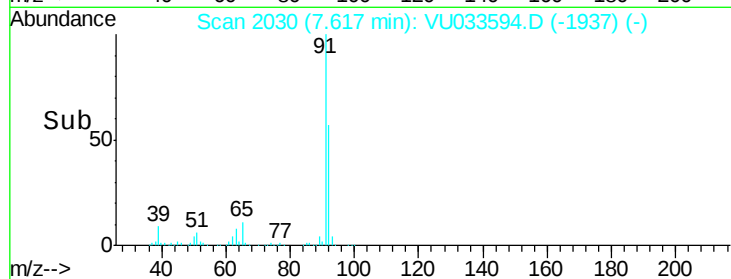
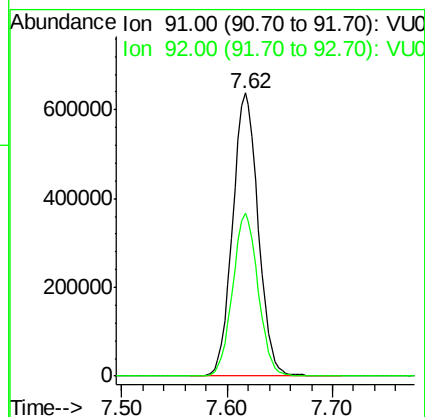
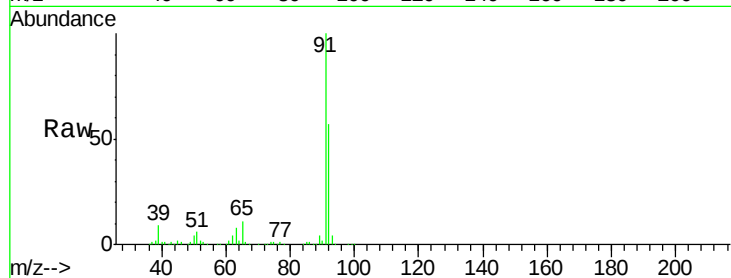
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1069267

Ion Ratio Lower Upper

91 100

92 57.4 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 98.389 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033594.D

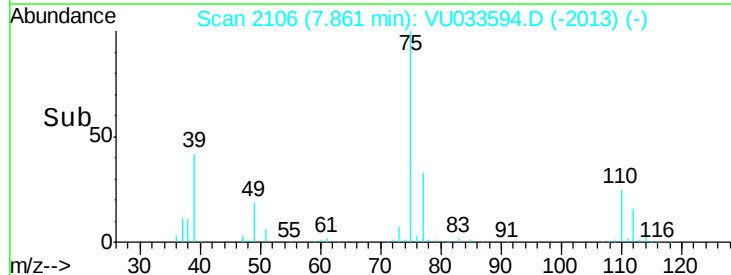
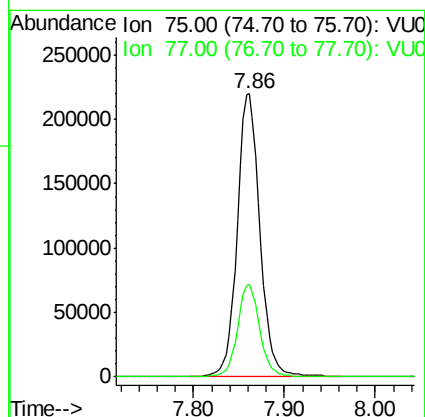
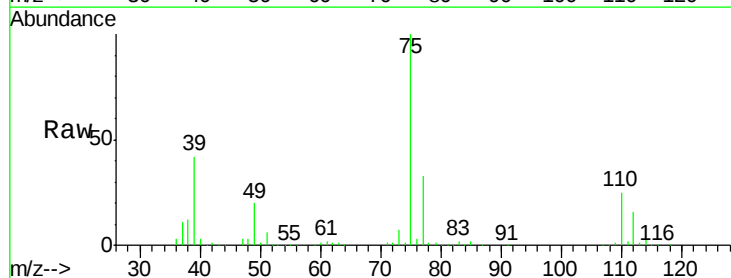
Acq: 05 Aug 2019 12:05

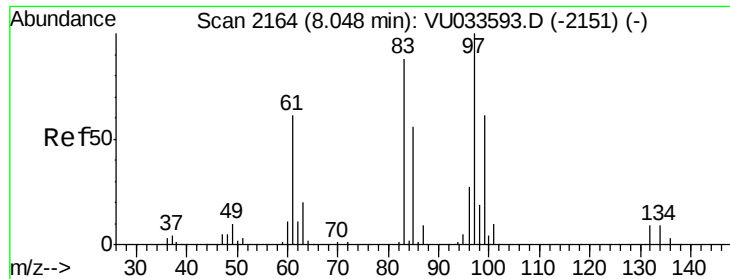
Tgt Ion: 75 Resp: 381068

Ion Ratio Lower Upper

75 100

77 32.6 21.6 40.2

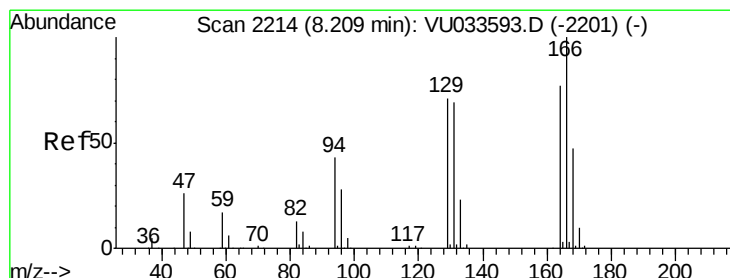
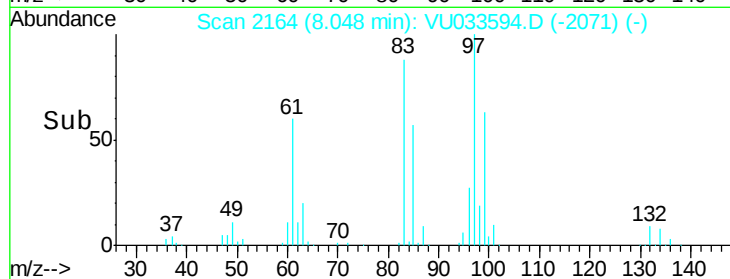
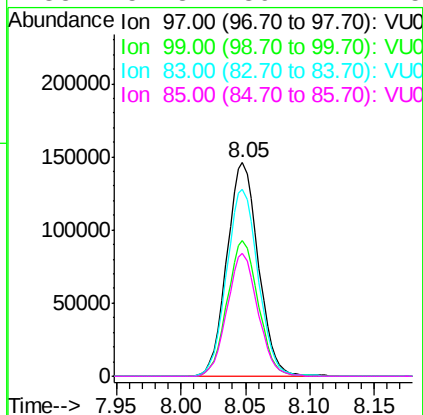
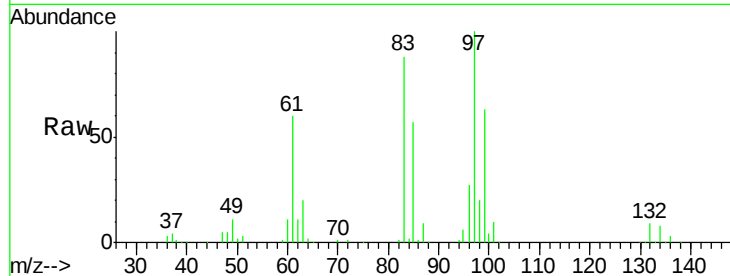




#45
 1,1,2-Trichloroethane
 Concen: 93.430 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

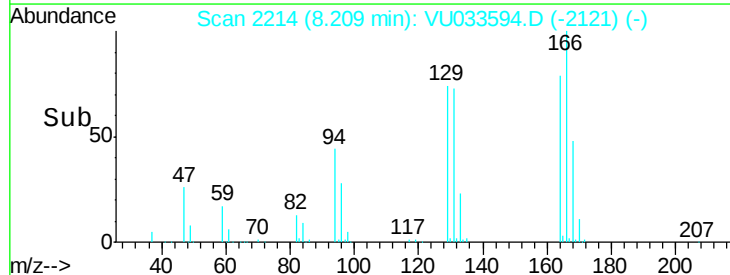
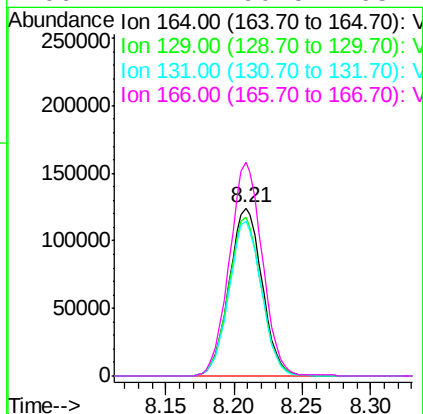
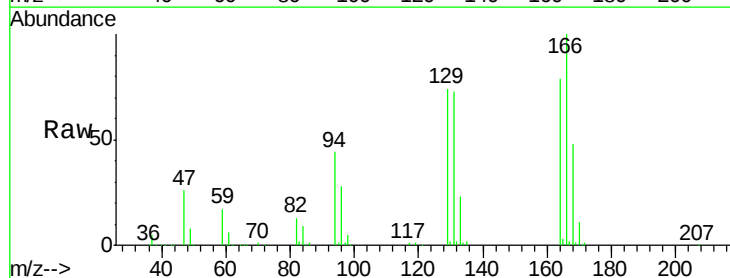
Instrument :
 MSVOA_U
 ClientSampleId :

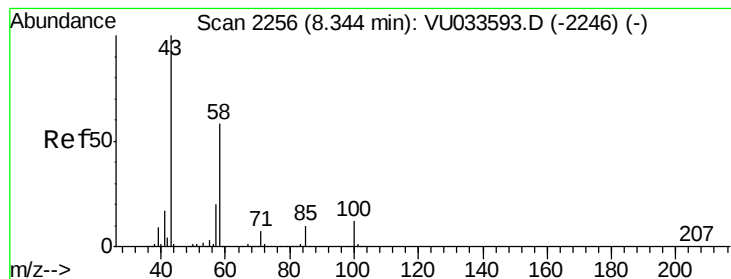
Tot Ion:	97	Resp:	247681
Ion	Ratio	Lower	Upper
97	100		
99	63.5	42.8	79.6
83	87.6	61.3	113.9
85	57.3	39.1	72.5



#46
 Tetrachloroethene
 Concen: 97.089 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

Tgt Ion:	164	Resp:	208607
Ion	Ratio	Lower	Upper
164	100		
129	94.7	64.1	119.1
131	92.3	62.9	116.7
166	127.2	90.5	168.1





#48

2-Hexanone

Concen: 197.978 ug/L

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 43 Resp: 638889

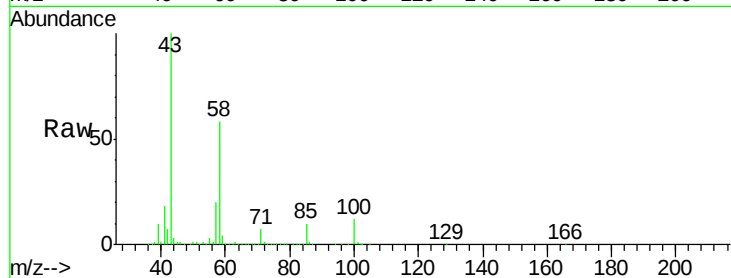
Ion Ratio Lower Upper

43 100

58 57.2 45.2 67.8

57 19.9 15.4 23.2

100 12.0 9.6 14.4

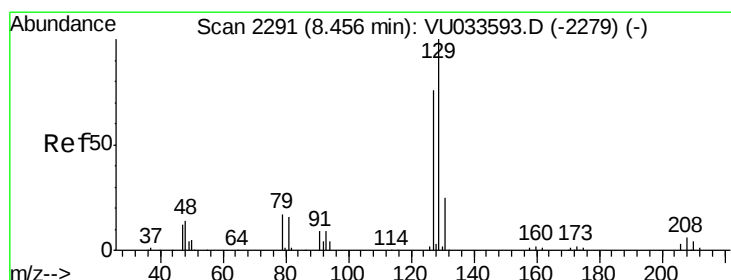
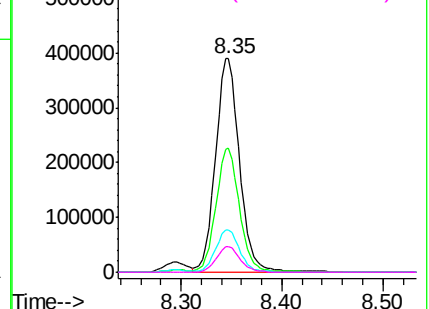
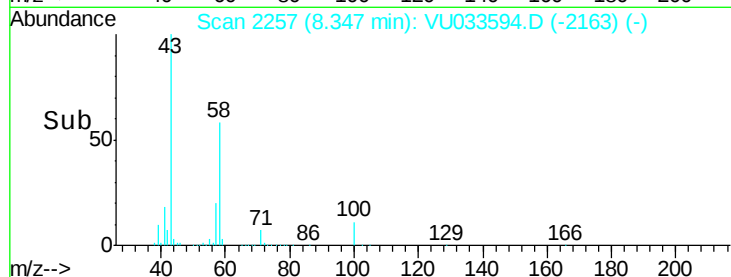


Abundance Ion 43.00 (42.70 to 43.70): VU033594.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU033594.D (-2163) (-)

Ion 57.00 (56.70 to 57.70): VU033594.D (-2163) (-)

Ion 100.00 (99.70 to 100.70): VU033594.D (-2163) (-)



#49

Dibromochloromethane

Concen: 95.486 ug/L

RT: 8.46 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VU033594.D

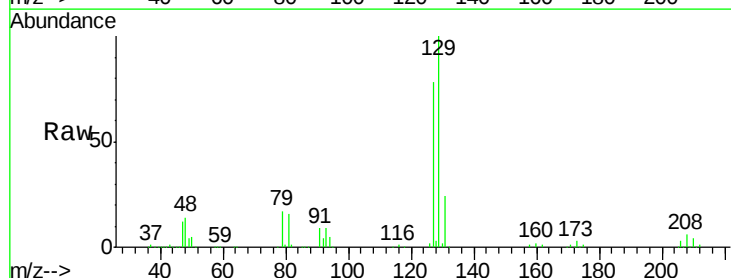
Acq: 05 Aug 2019 12:05

Tgt Ion: 129 Resp: 285542

Ion Ratio Lower Upper

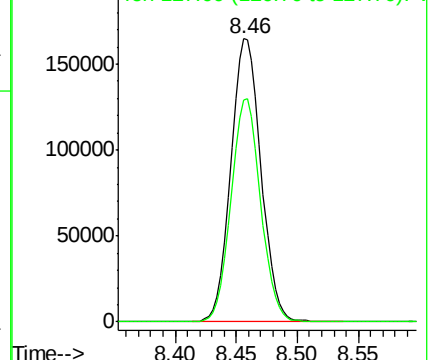
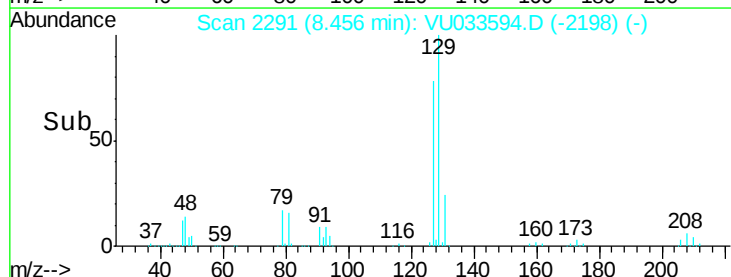
129 100

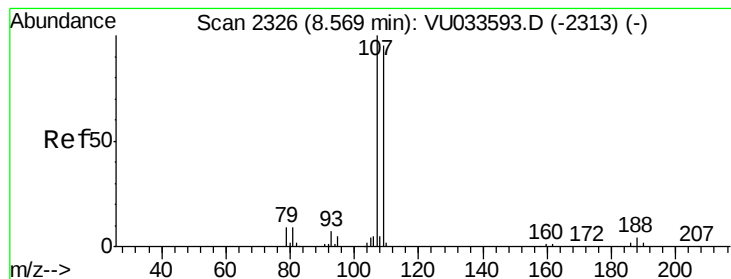
127 78.3 53.4 99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033594.D (-2198) (-)

Ion 127.00 (126.70 to 127.70): VU033594.D (-2198) (-)





#50

1,2-Dibromoethane

Concen: 96.346 ug/L

RT: 8.57 min Scan# 2326

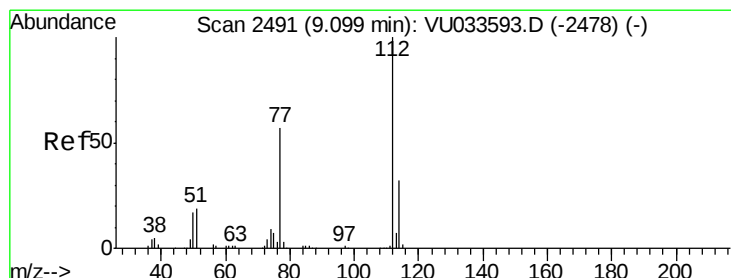
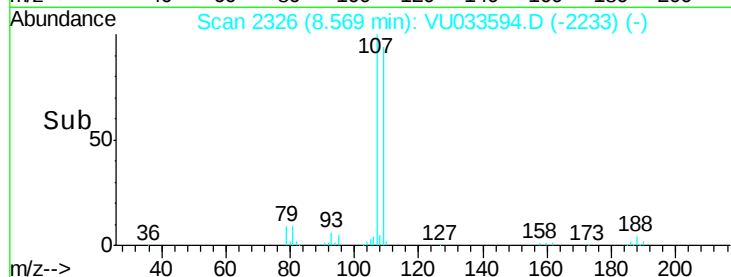
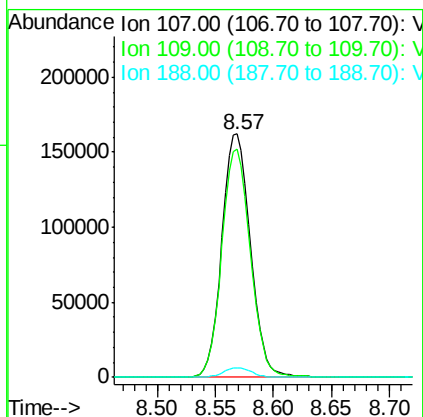
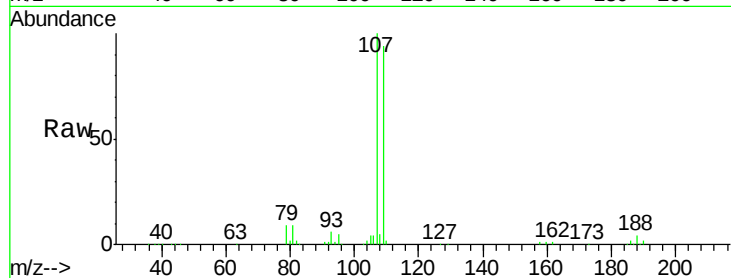
Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	107	Resp:	276934
Ion	Ratio	Lower	Upper
107	100		
109	93.7	66.5	123.5
188	3.9	3.0	4.6



#51

Chlorobenzene

Concen: 94.882 ug/L

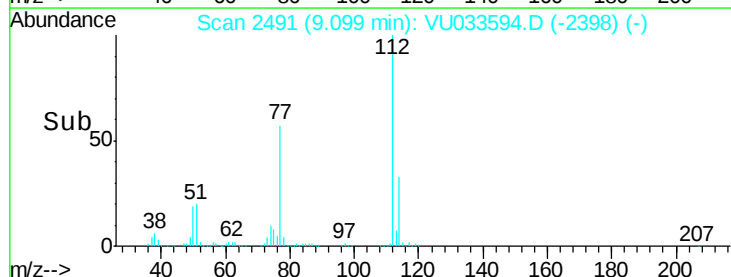
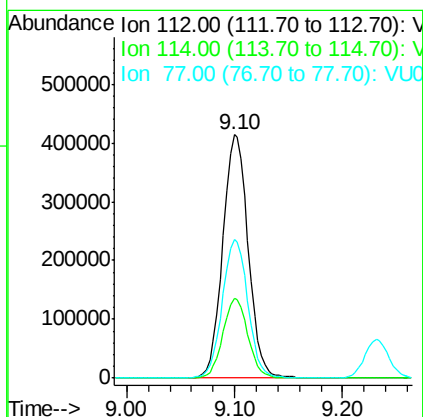
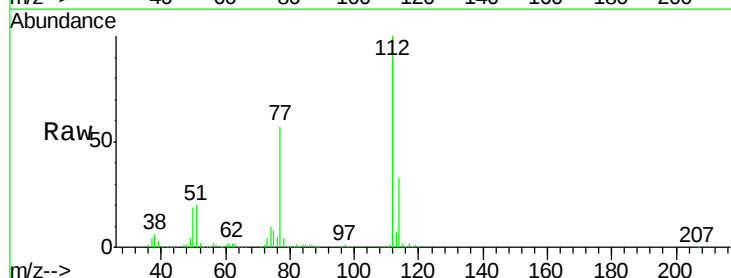
RT: 9.10 min Scan# 2491

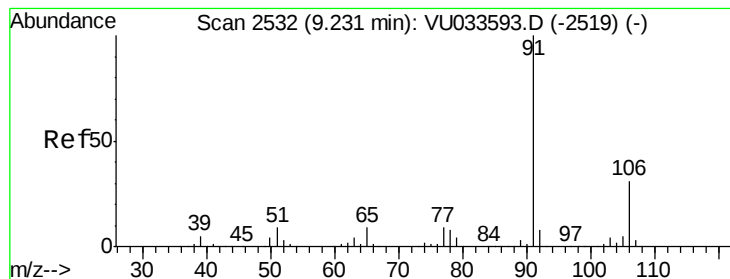
Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Tgt Ion:	112	Resp:	680156
Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.5	41.9
77	57.1	46.1	69.1





#52

Ethylbenzene

Concen: 100.589 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

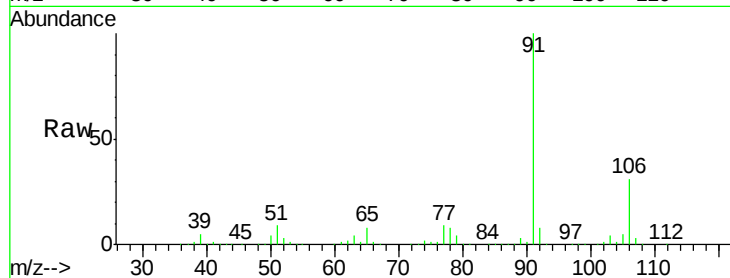
ClientSampleId :

Tot Ion: 91 Resp: 1174506

Ion Ratio Lower Upper

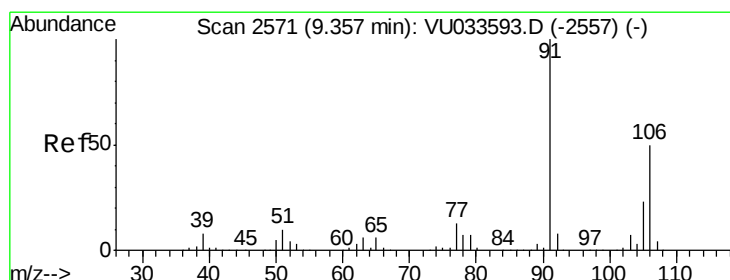
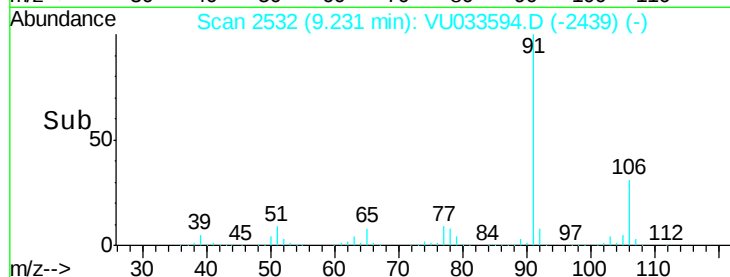
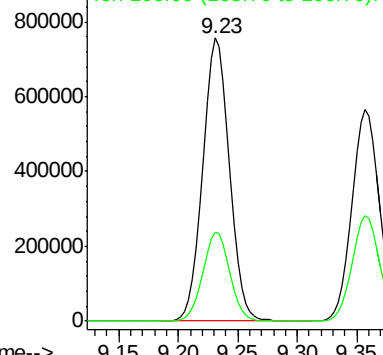
91 100

106 31.5 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 101.762 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033594.D

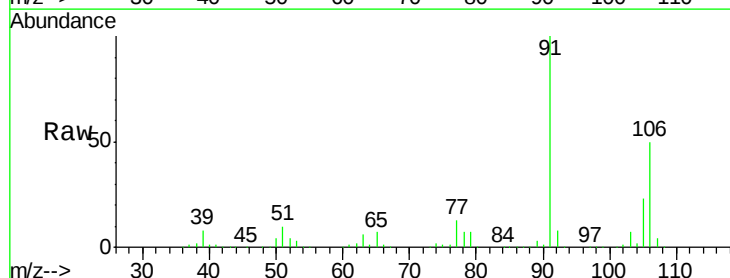
Acq: 05 Aug 2019 12:05

Tgt Ion: 106 Resp: 452603

Ion Ratio Lower Upper

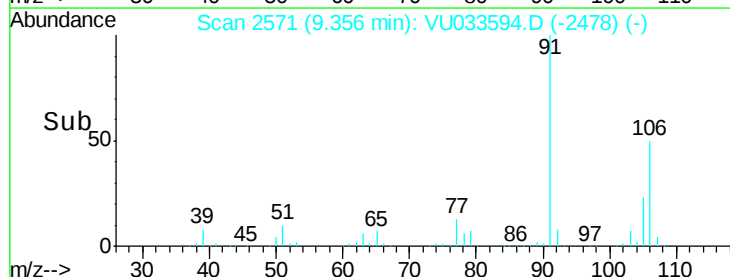
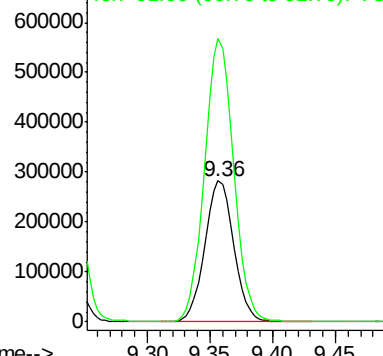
106 100

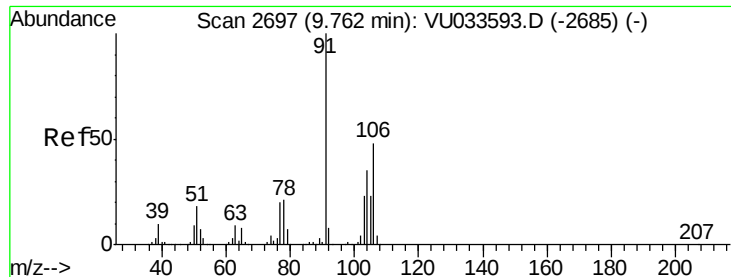
91 200.7 141.3 262.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 102.050 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

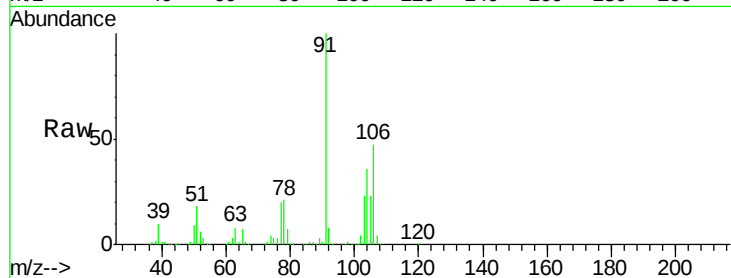
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 447408

Ion Ratio Lower Upper

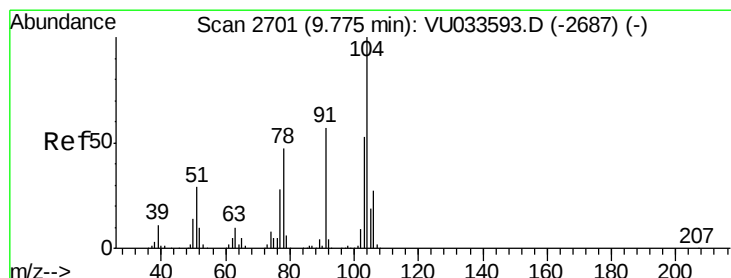
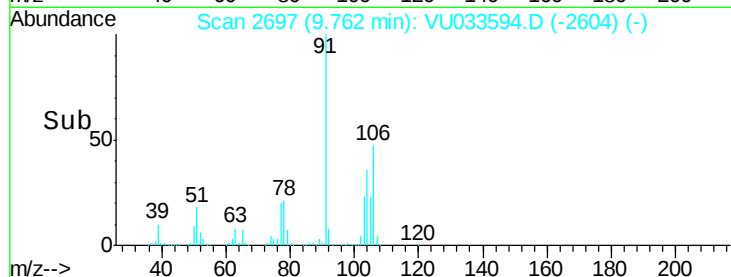
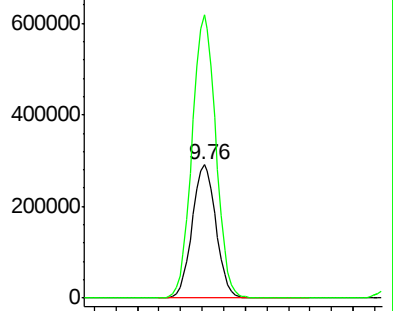
106 100

91 212.3 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 103.689 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033594.D

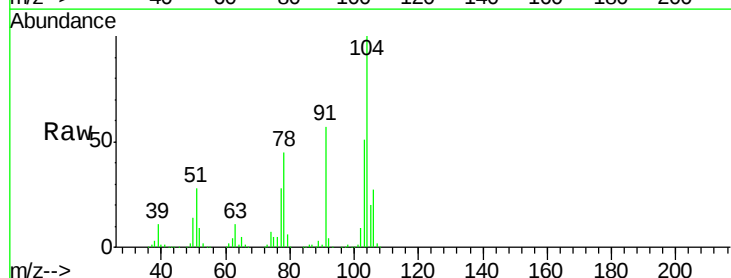
Acq: 05 Aug 2019 12:05

Tgt Ion:104 Resp: 770824

Ion Ratio Lower Upper

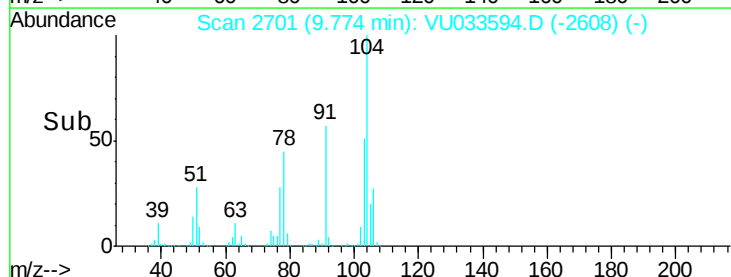
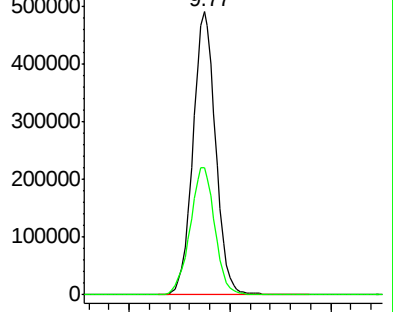
104 100

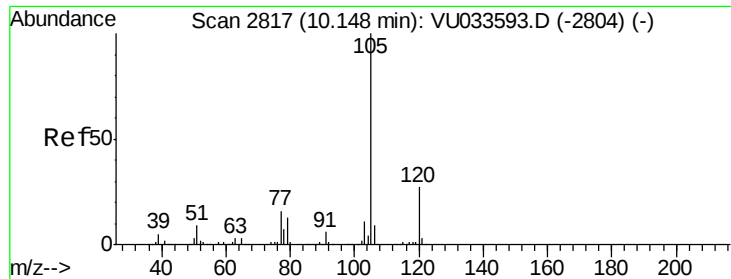
78 45.0 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 102.663 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

ClientSampled :

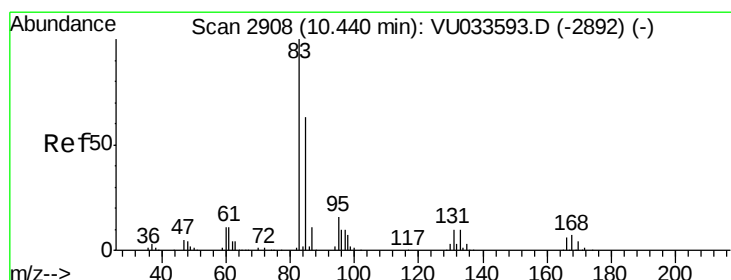
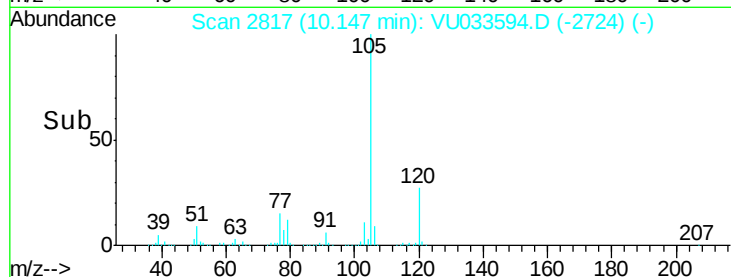
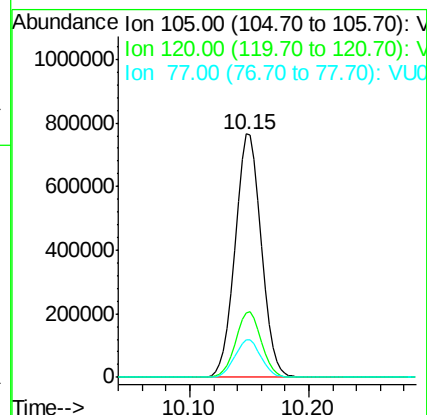
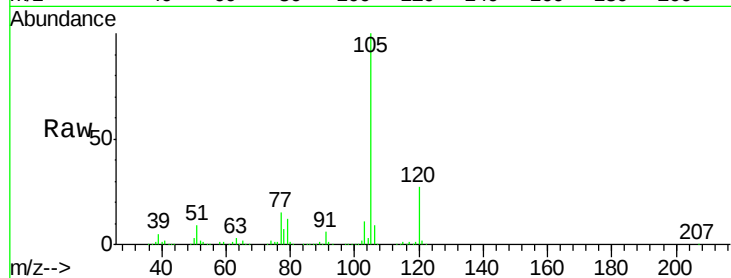
Tot Ion:105 Resp: 1165651

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.2

77 15.4 12.6 18.8



#58

1,1,2,2-Tetrachloroethane

Concen: 94.028 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

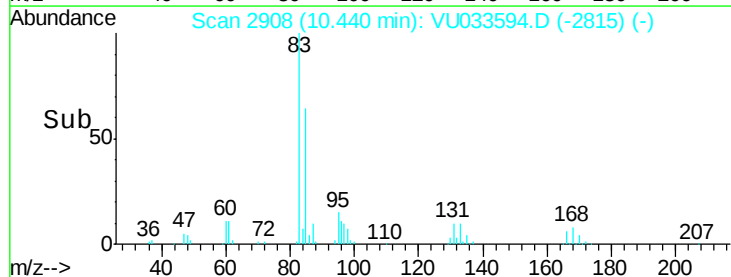
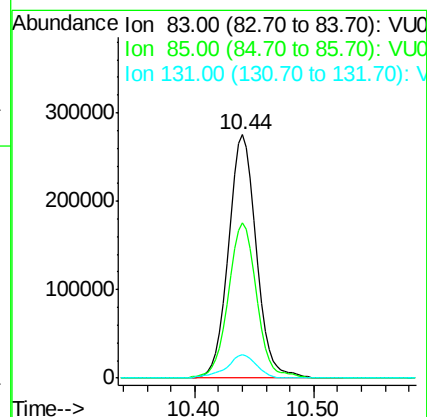
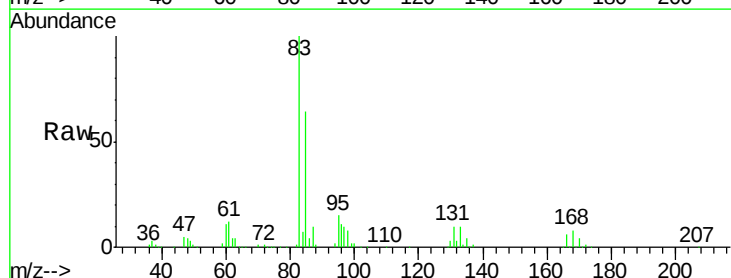
Tgt Ion: 83 Resp: 446201

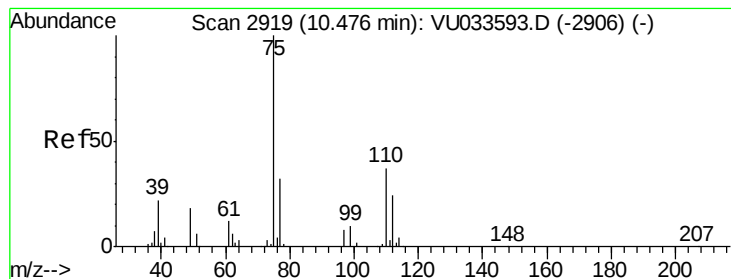
Ion Ratio Lower Upper

83 100

85 63.8 44.3 82.3

131 9.7 7.8 11.6





#59

1,2,3-Trichloropropane

Concen: 93.059 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

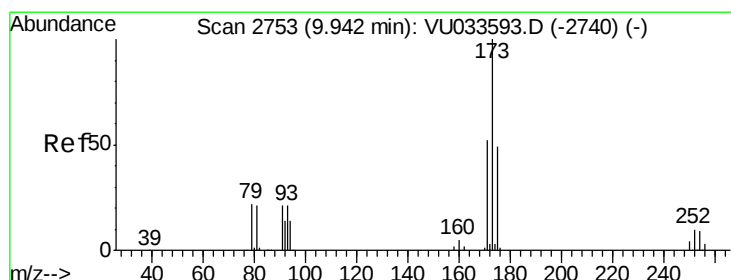
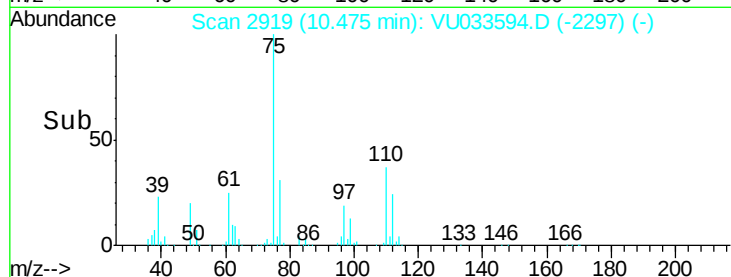
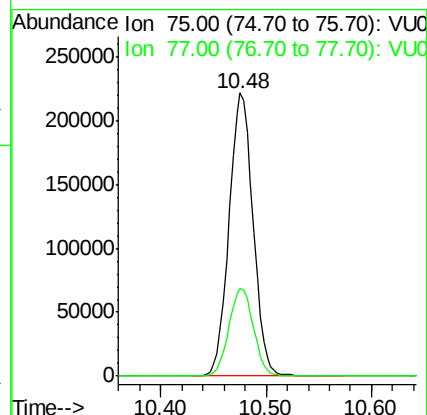
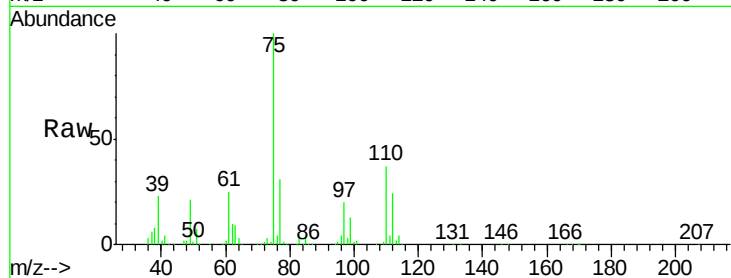
ClientSampled :

Tot Ion: 75 Resp: 348233

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5



#61

Bromoform

Concen: 93.940 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

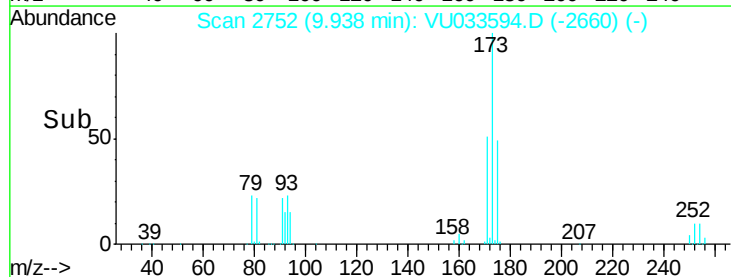
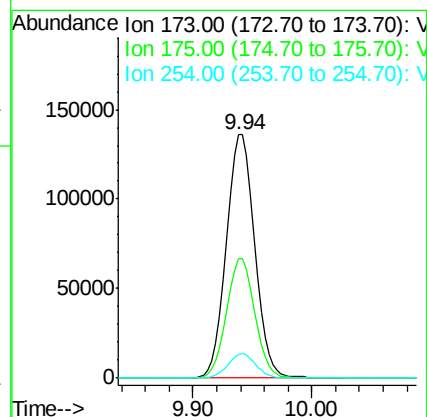
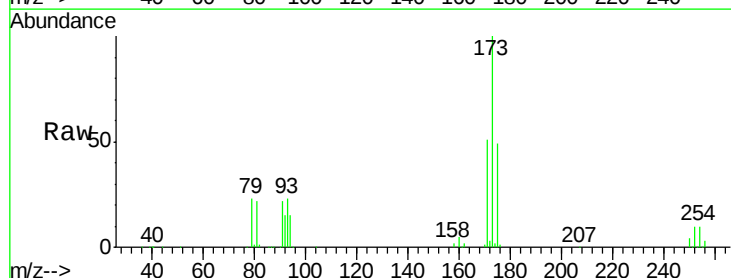
Tgt Ion: 173 Resp: 225328

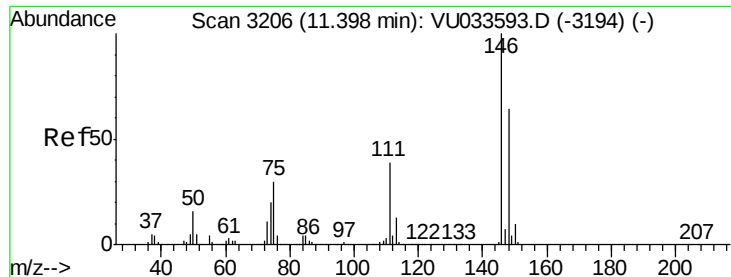
Ion Ratio Lower Upper

173 100

175 48.9 39.4 59.0

254 9.8 7.2 10.8

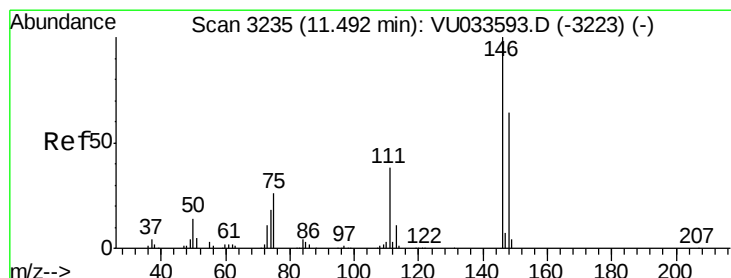
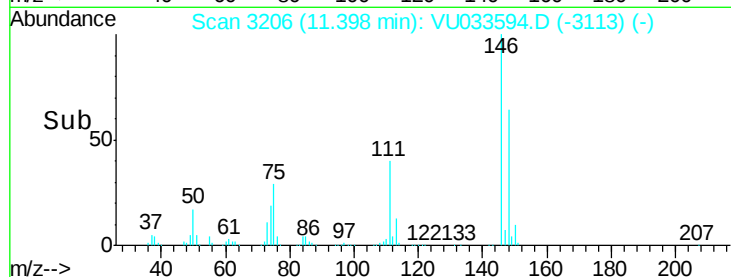
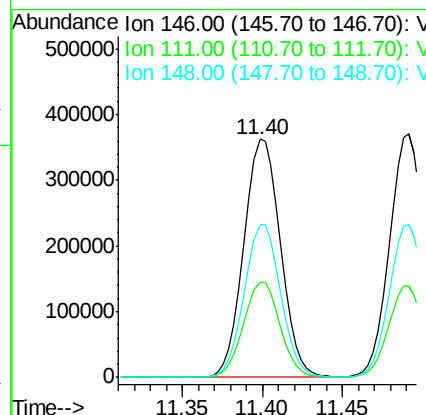
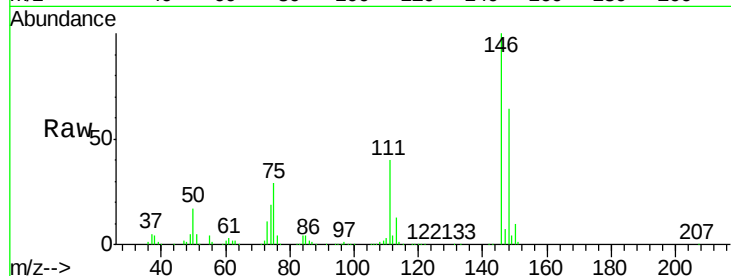




#62
 1,3-Dichlorobenzene
 Concen: 93.761 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

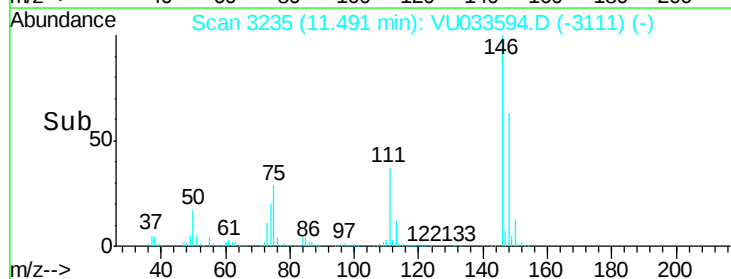
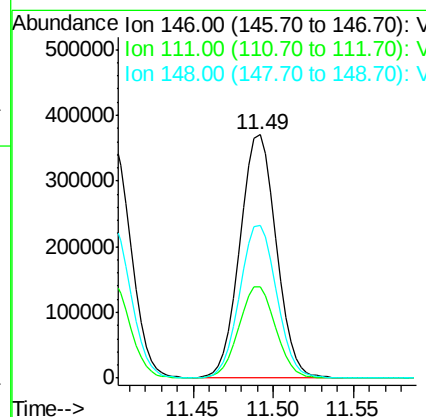
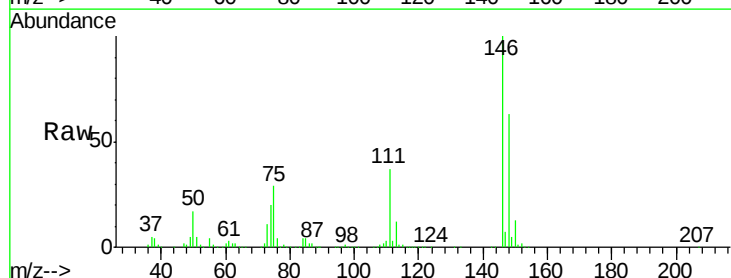
Instrument :
 MSVOA_U
 ClientSampleId :

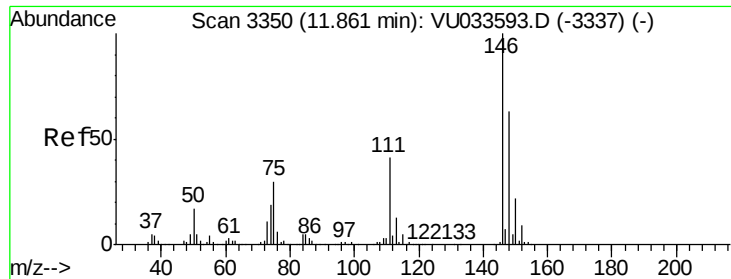
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.5	51.1
148	63.9	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 92.145 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	26.9	49.9
148	62.8	44.9	83.3

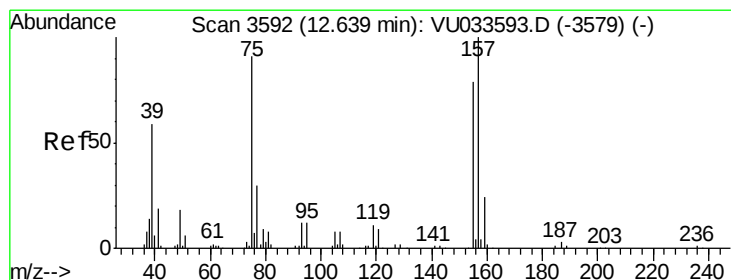
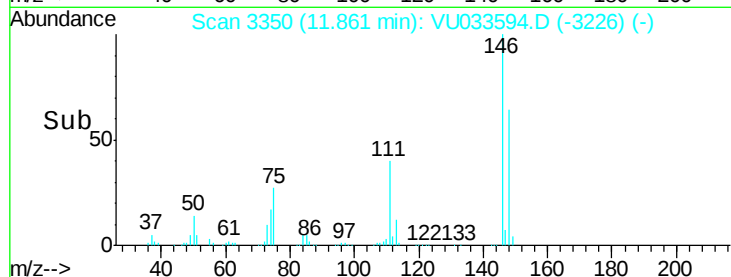
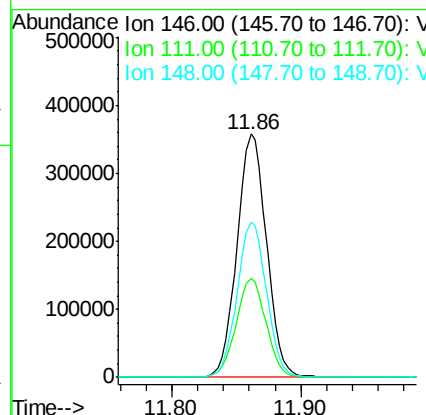
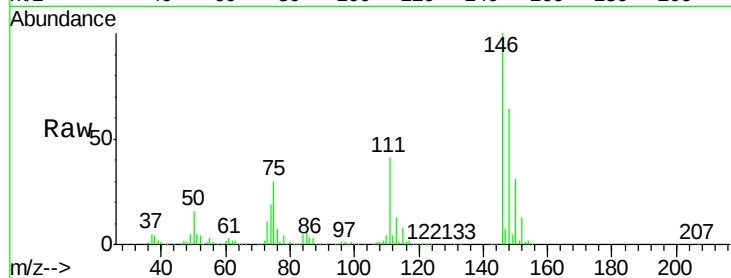




#65
 1,2-Dichlorobenzene
 Concen: 94.151 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

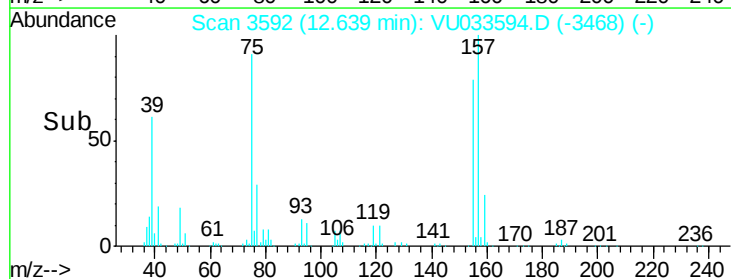
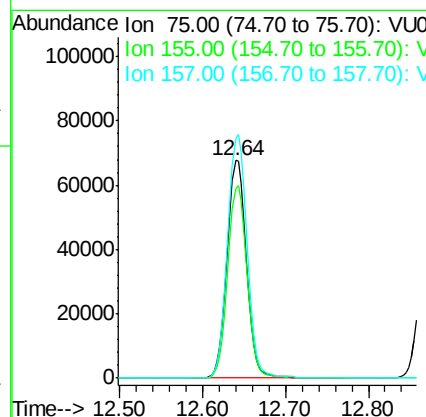
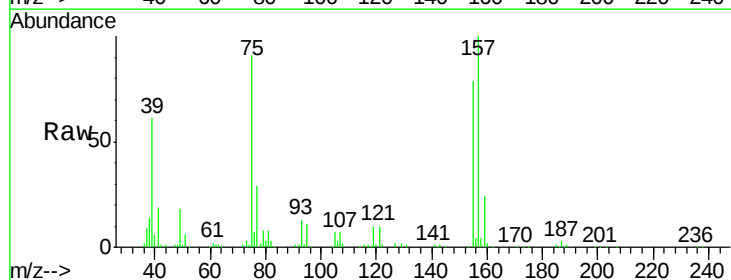
Instrument :
 MSVOA_U
 ClientSampleId :

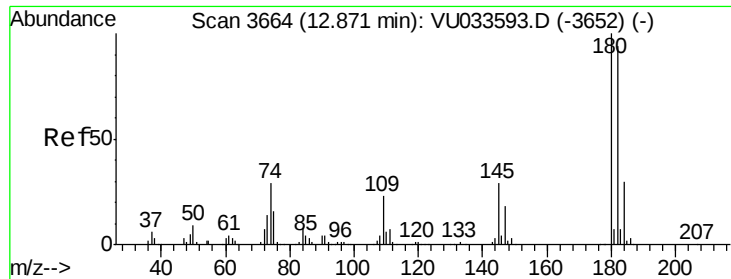
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	33.0	49.6
148	63.9	50.6	75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 94.797 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.2	69.0	103.6
157	109.9	87.8	131.8

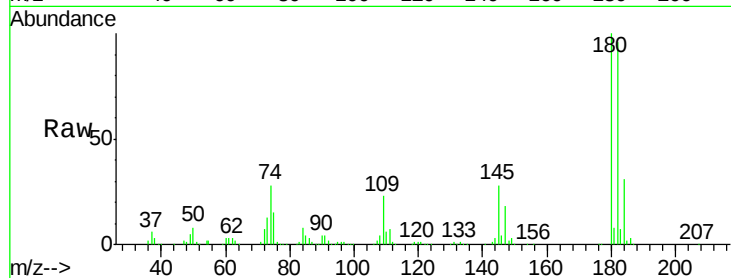




#67
 1,3,5-Trichlorobenzene
 Concen: 96.365 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.2
184	30.9	24.2	36.4
145	28.8	23.0	34.4

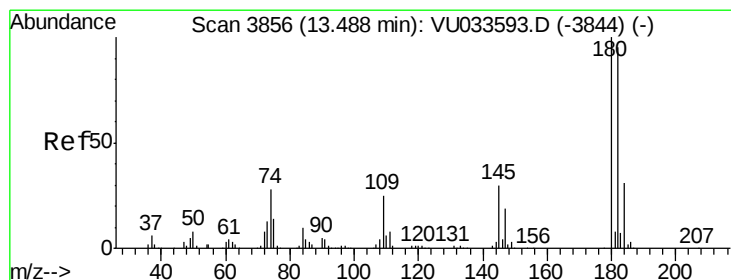
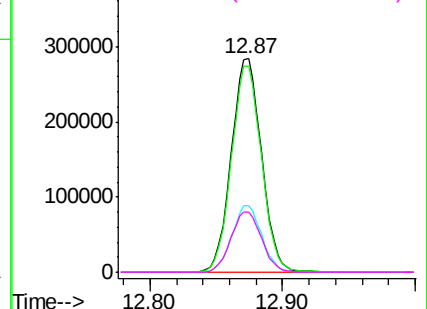
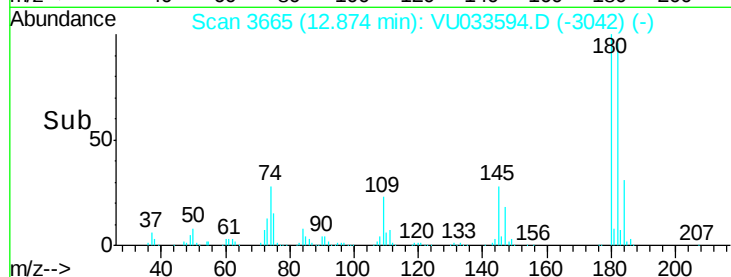


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

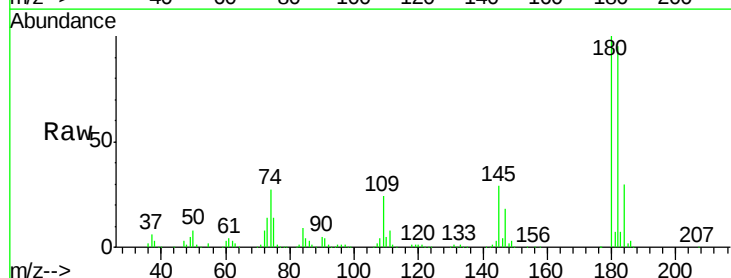
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 103.873 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033594.D
 Acq: 05 Aug 2019 12:05

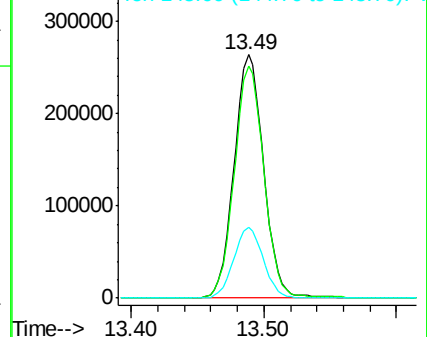
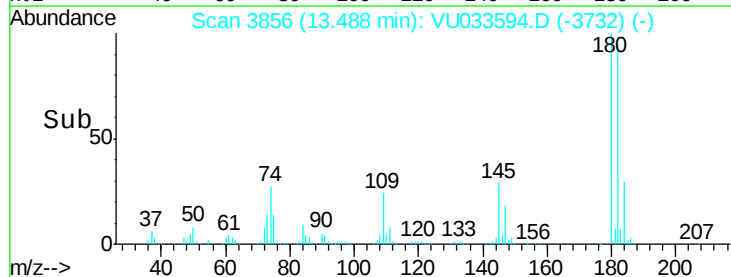
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.7	115.1
145	29.3	23.5	35.3

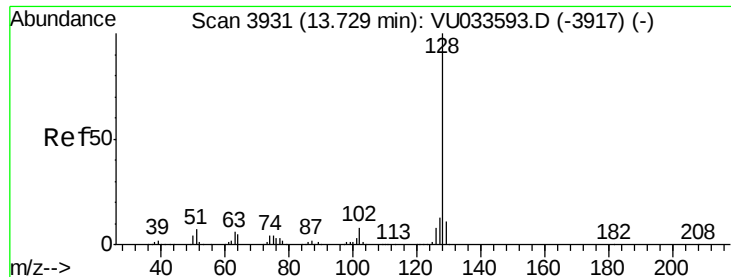


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 107.957 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

Instrument :

MSVOA_U

ClientSampleId :

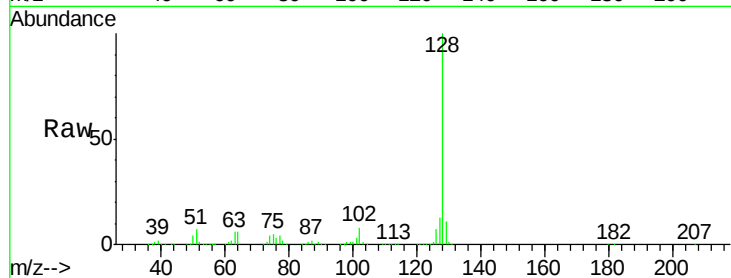
Tot Ion:128 Resp: 1227947

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

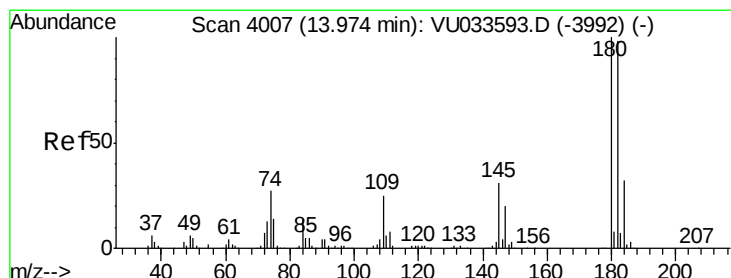
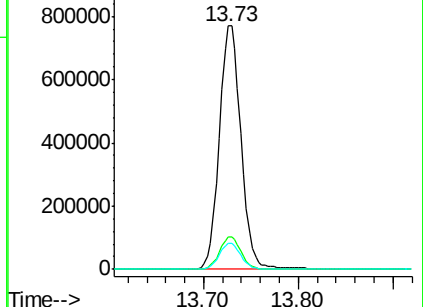
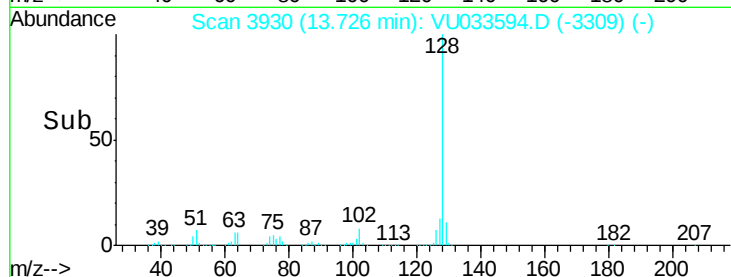
129 10.8 8.6 12.8



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



#70

1,2,3-Trichlorobenzene

Concen: 98.150 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033594.D

Acq: 05 Aug 2019 12:05

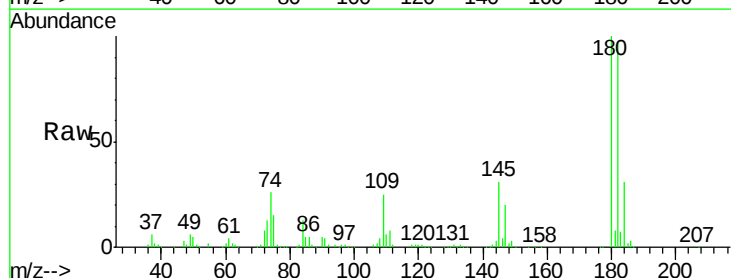
Tgt Ion:180 Resp: 410810

Ion Ratio Lower Upper

180 100

182 97.1 77.4 116.2

145 31.2 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

