

Data File : VU032222.D
Acq On : 22 May 2019 15:01
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Quant Time: May 23 01:39:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 01:22:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	411056	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	398355	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	186855	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	105382	4.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.40%
7) Chloroethane-d5	1.68	69	100854	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.27	63	196617	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.40%
20) 2-Butanone-d5	4.21	46	314584	48.31	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.62%
24) Chloroform-d	4.64	84	275572	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.31	65	150464	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.33	84	551155	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.33	67	178907	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	7.56	98	550989	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
43) trans-1,3-Dichloropropene-	7.85	79	71714	5.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.60%
46) 2-Hexanone-d5	8.31	63	289024	54.42	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.84%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	180195	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	257197	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	89263	5.080 ug/L	96
3) Chloromethane	1.32	50	81186	4.608 ug/L	100
5) Vinyl chloride	1.40	62	87737	4.932 ug/L	95
6) Bromomethane	1.63	94	54656	4.849 ug/L	95
8) Chloroethane	1.70	64	52775	4.673 ug/L	97
9) Trichlorofluoromethane	1.88	101	113610	4.926 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	72412	4.975 ug/L	98
12) 1,1-Dichloroethene	2.28	96	73917	5.053 ug/L	89
13) Acetone	2.34	43	100307	49.719 ug/L	99
14) Carbon disulfide	2.47	76	220487	4.864 ug/L	99
15) Methyl Acetate	2.62	43	25499	4.307 ug/L	92
16) Methylene chloride	2.69	84	75259	3.857 ug/L	98
17) Methyl tert-butyl Ether	3.00	73	166433	5.046 ug/L	99
18) trans-1,2-Dichloroethene	2.97	96	75979	4.839 ug/L	95
19) 1,1-Dichloroethane	3.44	63	123277	5.084 ug/L	96
21) 2-Butanone	4.29	43	156752	51.503 ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	75380	4.918 ug/L	95

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VSTD00510

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	33246	4.908	ug/L	95
25) Chloroform	4.67	83	130628	4.988	ug/L	91
27) 1,2-Dichloroethane	5.40	62	77820	5.105	ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	105840	5.119	ug/L	100
30) Cyclohexane	4.99	56	97008	5.019	ug/L	99
31) Carbon tetrachloride	5.13	117	92471	5.077	ug/L	99
33) Benzene	5.38	78	288146	5.347	ug/L	100
34) Trichloroethene	6.18	95	71420	4.938	ug/L	91
35) Methylcyclohexane	6.41	83	108556	5.096	ug/L	100
37) 1,2-Dichloropropane	6.43	63	67729	5.220	ug/L	99
38) Bromodichloromethane	6.75	83	87303	5.178	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	91603	4.959	ug/L	95
40) 4-Methyl-2-pentanone	7.46	43	346538	52.841	ug/L	99
42) Toluene	7.63	91	305346	5.333	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	76294	5.256	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	52101	5.201	ug/L	96
47) Tetrachloroethene	8.22	164	59909	5.018	ug/L	97
48) 2-Hexanone	8.36	43	275659	54.802	ug/L	99
49) Dibromochloromethane	8.47	129	59973	5.259	ug/L	96
50) 1,2-Dibromoethane	8.58	107	50086	5.303	ug/L #	91
51) Chlorobenzene	9.12	112	188314	5.139	ug/L	99
52) Ethylbenzene	9.25	91	297945	5.170	ug/L	97
53) m,p-Xylene	9.37	106	118375	5.523	ug/L	97
54) o-Xylene	9.77	106	110815	5.174	ug/L	97
55) Styrene	9.79	104	189445	5.287	ug/L	99
56) Isopropylbenzene	10.16	105	293116	5.414	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	64274	5.326	ug/L	93
59) 1,2,3-Trichloropropane	10.49	75	43323	5.128	ug/L	96
61) Bromoform	9.95	173	33385	4.988	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	141781	5.136	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	143503	4.956	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	144201	5.149	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	9537	5.274	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	109719	5.222	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	81718	5.517	ug/L	98
69) Naphthalene	13.74	128	116365	5.135	ug/L	96
70) 1,2,3-Trichlorobenzene	13.98	180	83397	5.319	ug/L	97

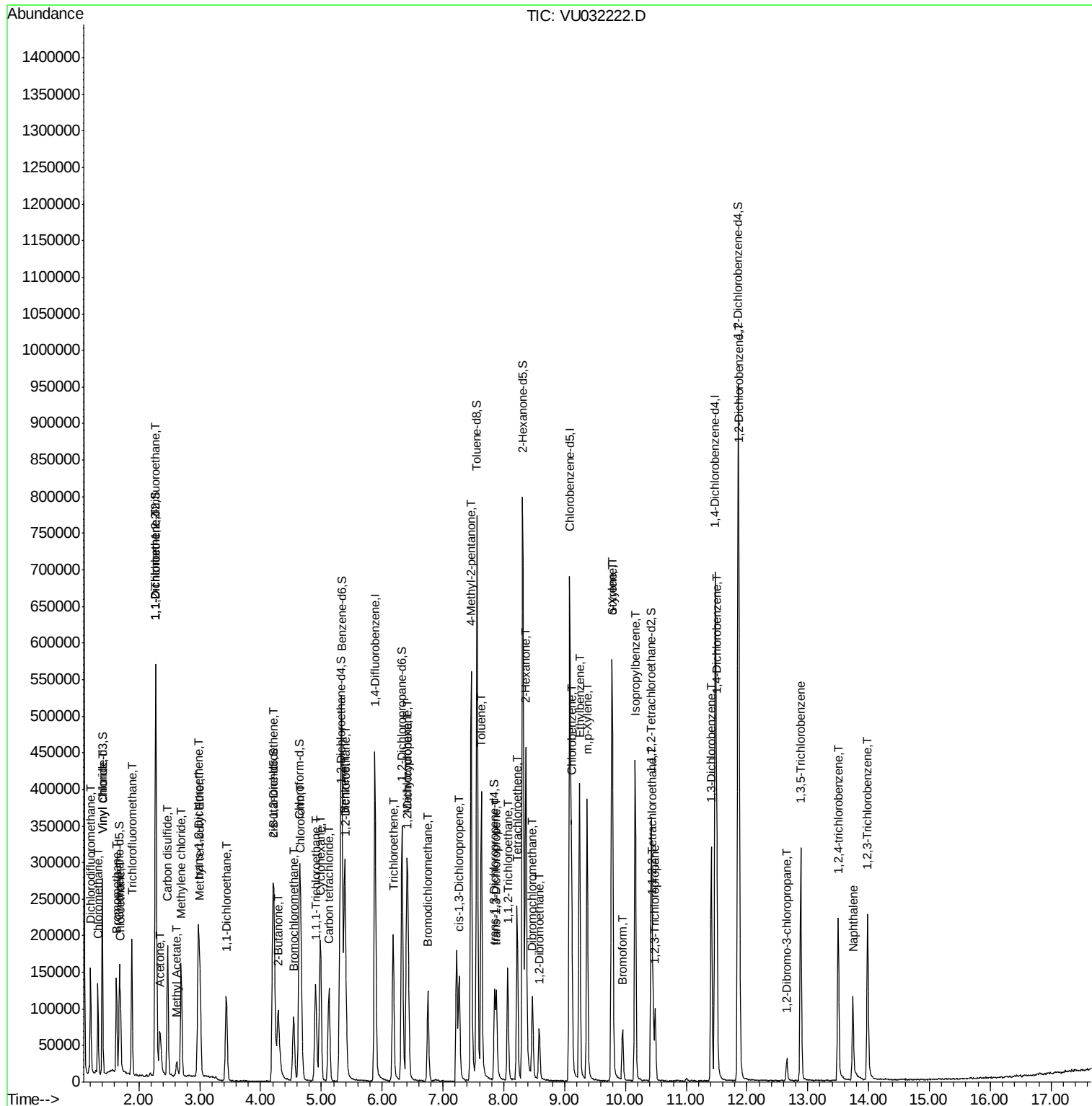
(#) = qualifier out of range (m) = manual integration (+) = signals summed

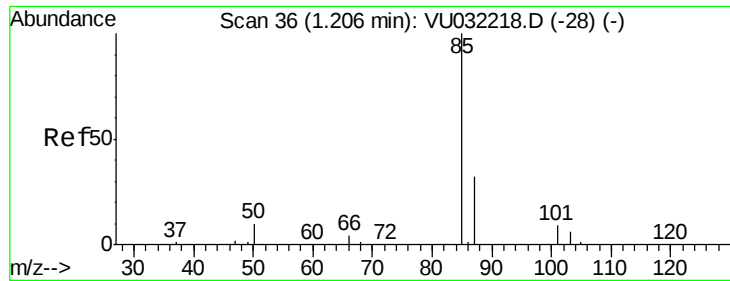
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MSVOA_U
ClientSampleId :
VSTD00510

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#2

Dichlorodifluoromethane

Concen: 5.080 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

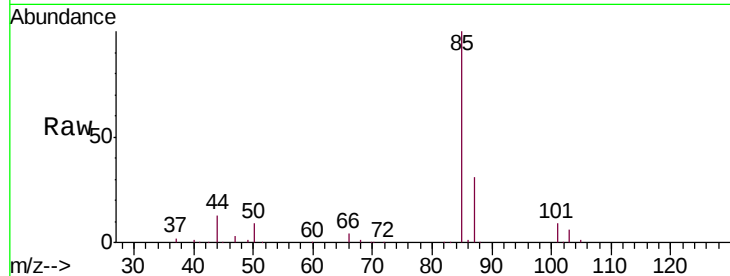
VSTD00510

Tgt Ion: 85 Resp: 89263

Ion Ratio Lower Upper

85 100

87 31.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU032222.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032222.D (-1) (-)

1.21

80000

60000

40000

20000

0

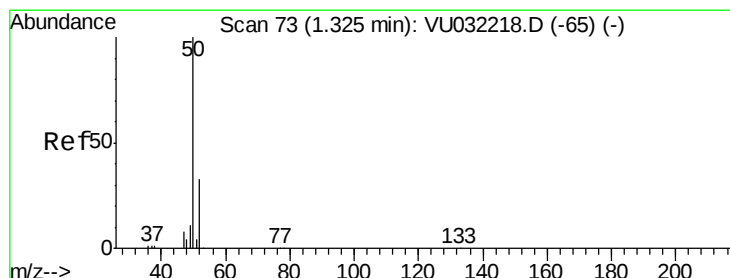
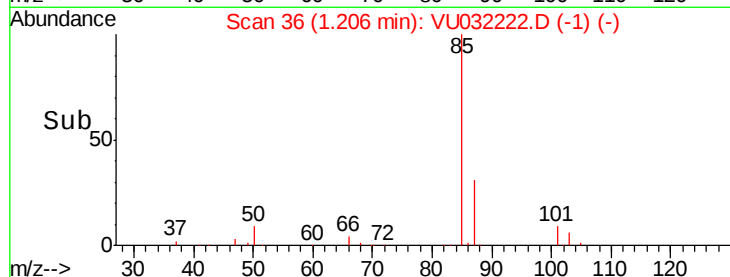
1.15

1.20

1.25

1.30

Time-->



#3

Chloromethane

Concen: 4.608 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032222.D

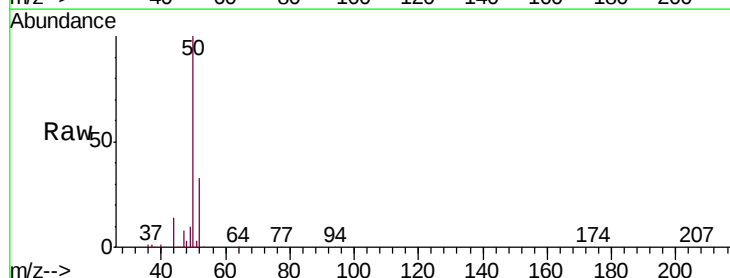
Acq: 22 May 2019 15:01

Tgt Ion: 50 Resp: 81186

Ion Ratio Lower Upper

50 100

52 33.1 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032222.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU032222.D (-1) (-)

1.32

80000

60000

40000

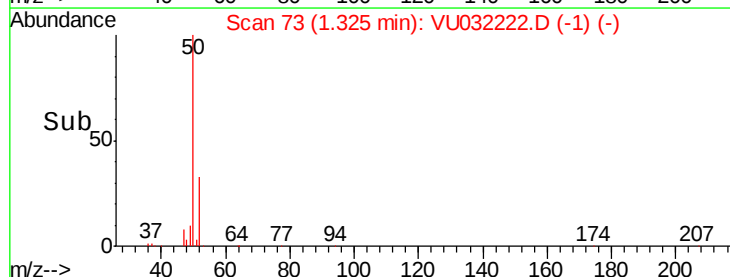
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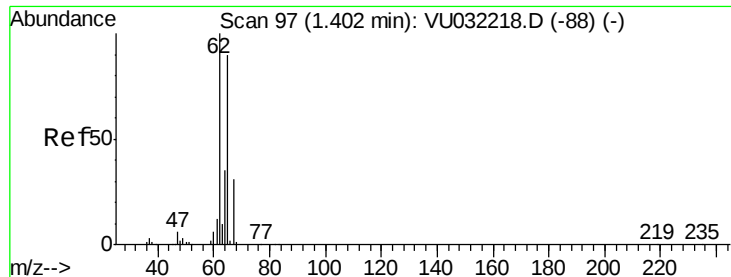
0

1.30

1.35

Time-->





#5

Vinyl chloride

Concen: 4.932 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

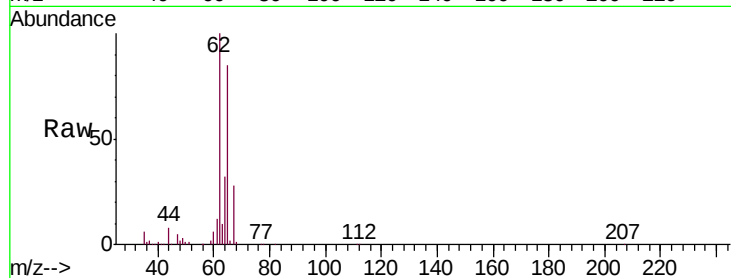
VSTD00510

Tgt Ion: 62 Resp: 87737

Ion Ratio Lower Upper

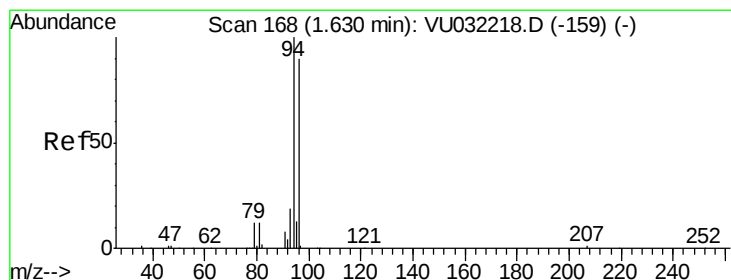
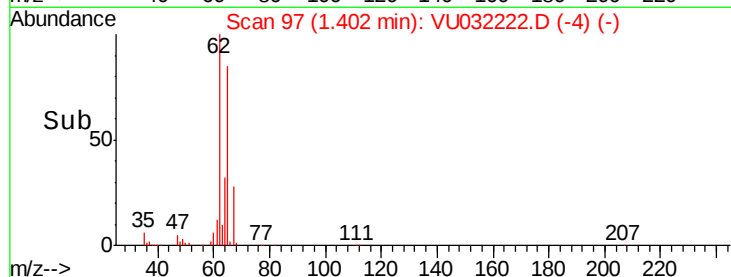
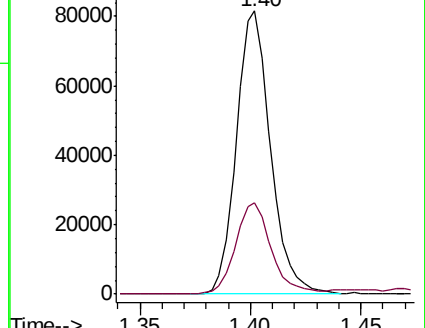
62 100

64 32.2 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU032222.D (-4) (-)

Ion 64.10 (63.80 to 64.80): VU032222.D (-4) (-)



#6

Bromomethane

Concen: 4.849 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU032222.D

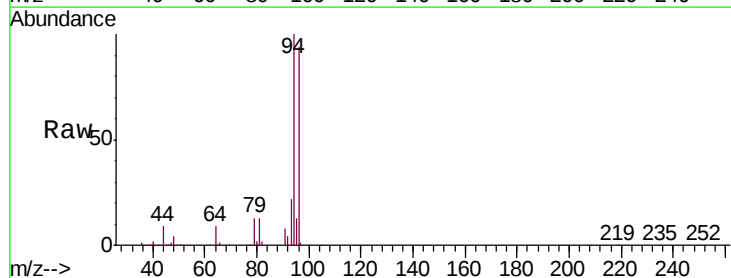
Acq: 22 May 2019 15:01

Tgt Ion: 94 Resp: 54656

Ion Ratio Lower Upper

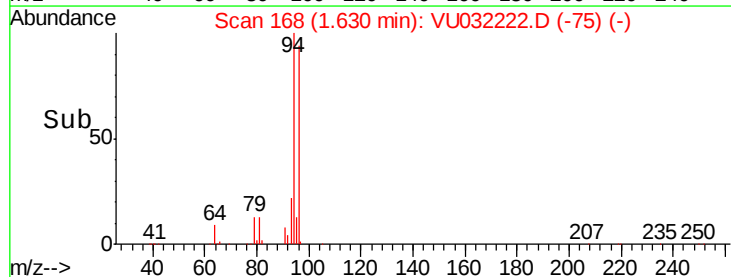
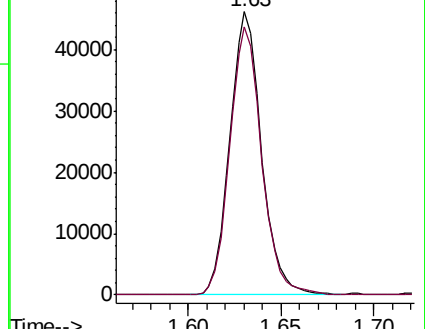
94 100

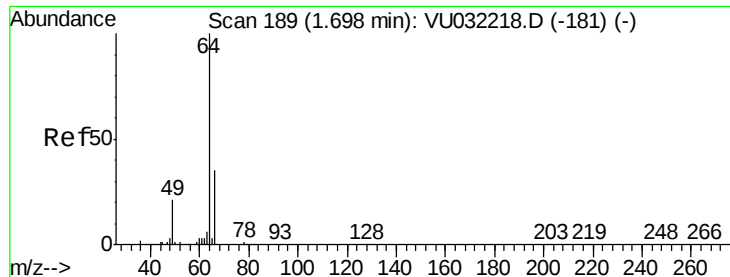
96 94.5 63.0 117.0



Abundance Ion 94.00 (93.70 to 94.70): VU032222.D (-75) (-)

Ion 96.00 (95.70 to 96.70): VU032222.D (-75) (-)





#8

Chloroethane

Concen: 4.673 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

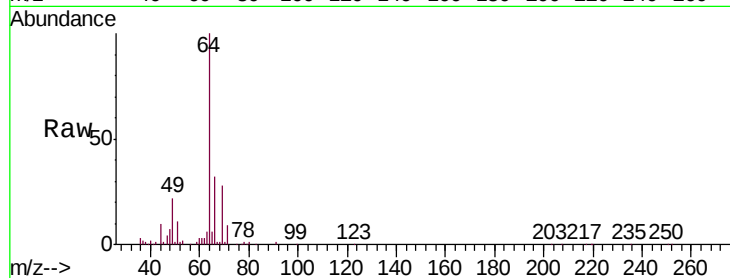
VSTD00510

Tgt Ion: 64 Resp: 52775

Ion Ratio Lower Upper

64 100

66 31.5 23.1 42.9

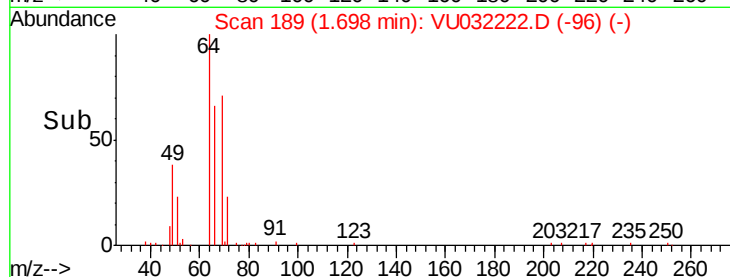


Abundance Ion 64.10 (63.80 to 64.80): VU032222.D (-181) (-)

Ion 66.05 (65.75 to 66.75): VU032222.D (-181) (-)

1.70

Time-->



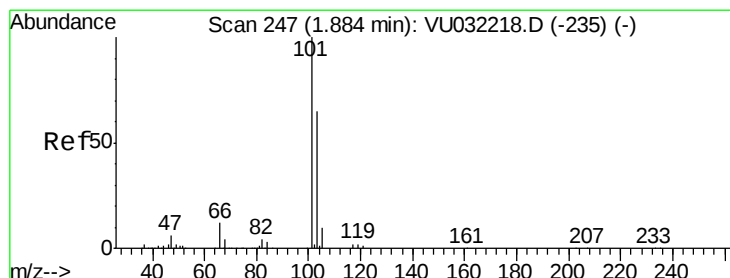
Abundance

Ion 64.10 (63.80 to 64.80): VU032222.D (-181) (-)

Ion 66.05 (65.75 to 66.75): VU032222.D (-181) (-)

1.70

Time-->



#9

Trichlorofluoromethane

Concen: 4.926 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU032222.D

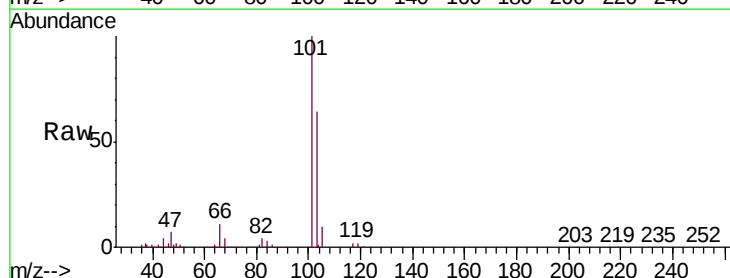
Acq: 22 May 2019 15:01

Tgt Ion: 101 Resp: 113610

Ion Ratio Lower Upper

101 100

103 64.7 51.9 77.9

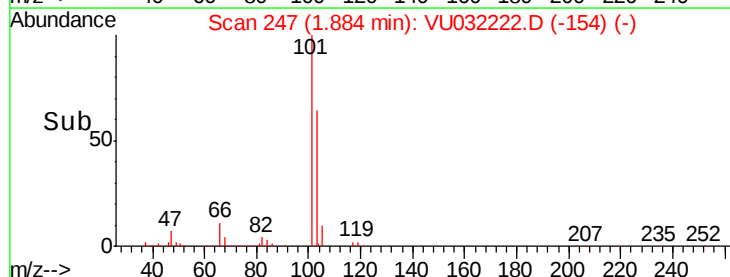


Abundance Ion 101.00 (100.70 to 101.70): VU032222.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032222.D (-235) (-)

1.88

Time-->



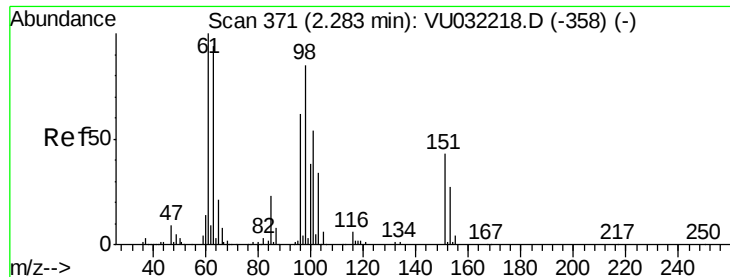
Abundance

Ion 101.00 (100.70 to 101.70): VU032222.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032222.D (-235) (-)

1.88

Time-->



#10

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

Concen: 4.975 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032222.D

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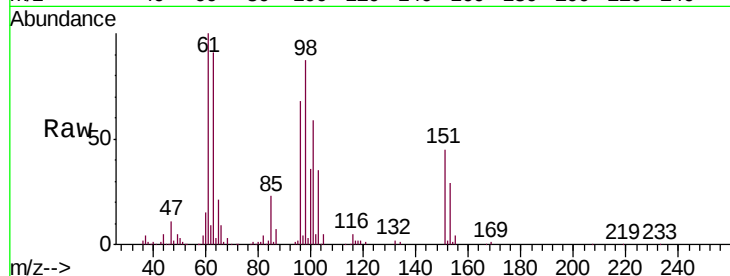
Tgt Ion:101 Resp: 72412

Ion Ratio Lower Upper

101 100

85 39.9 34.2 51.4

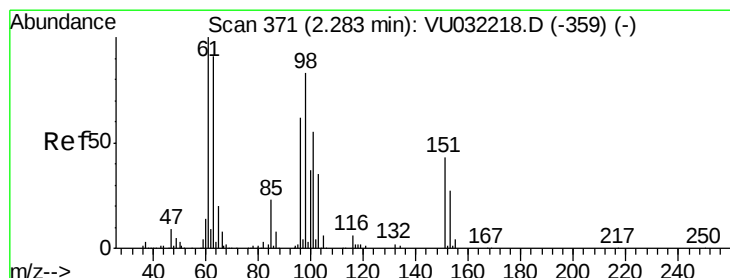
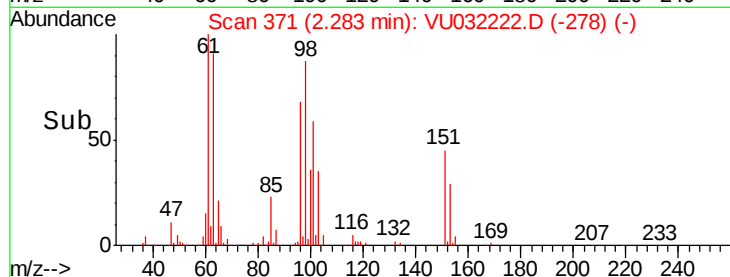
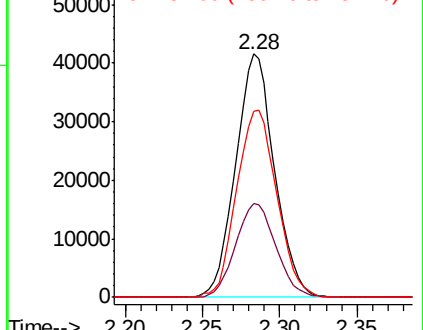
151 79.7 64.4 96.6



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: 5.053 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

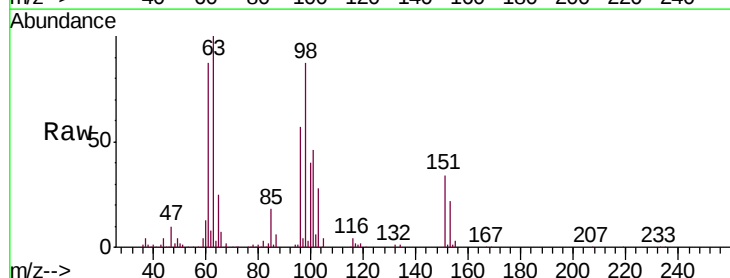
Tgt Ion: 96 Resp: 73917

Ion Ratio Lower Upper

96 100

61 154.4 113.8 211.3

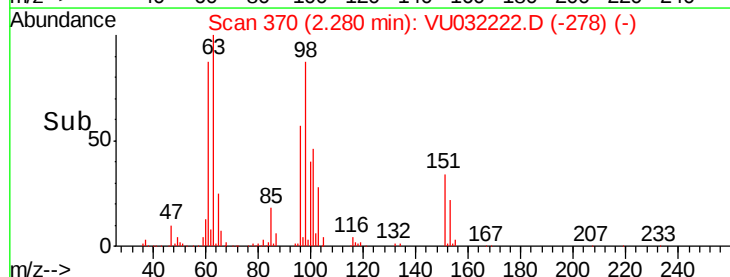
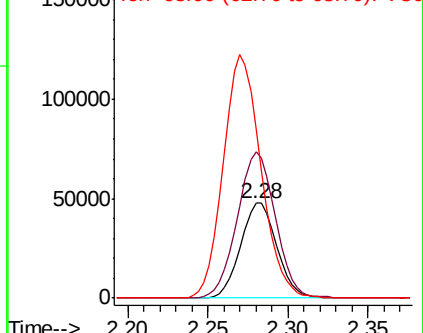
63 176.7 108.8 202.2

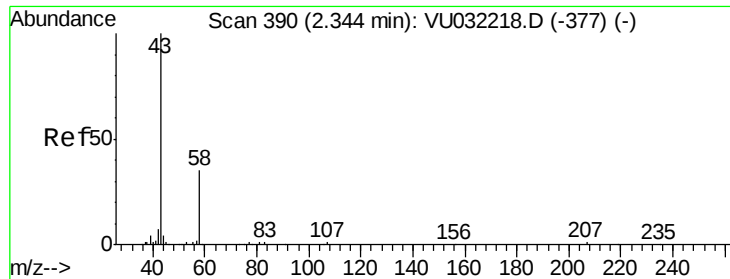


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.719 ug/L

RT: 2.34 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

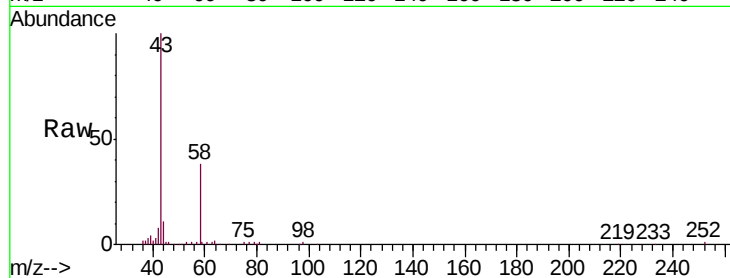
VSTD00510

Tgt Ion: 43 Resp: 100307

Ion Ratio Lower Upper

43 100

58 36.8 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU032218.D (-377) (-)

Ion 58.05 (57.75 to 58.75): VU032218.D (-377) (-)

2.34

40000

30000

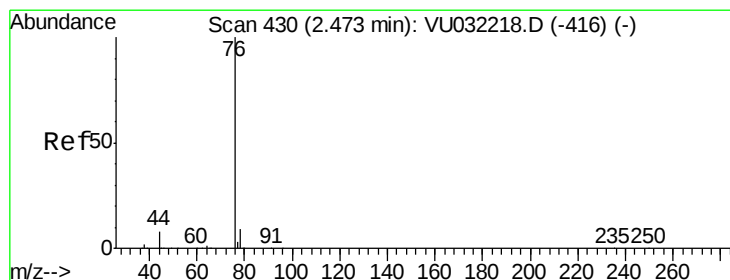
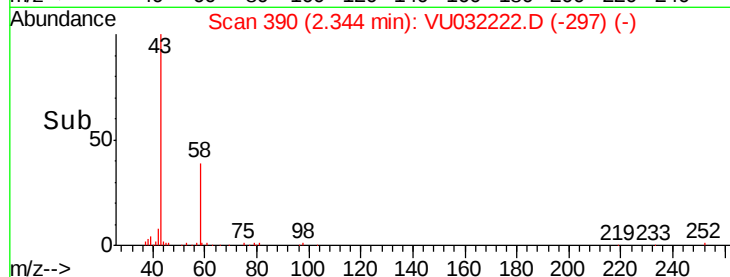
20000

10000

0

2.30 2.40 2.50

Time-->



#14

Carbon disulfide

Concen: 4.864 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032222.D

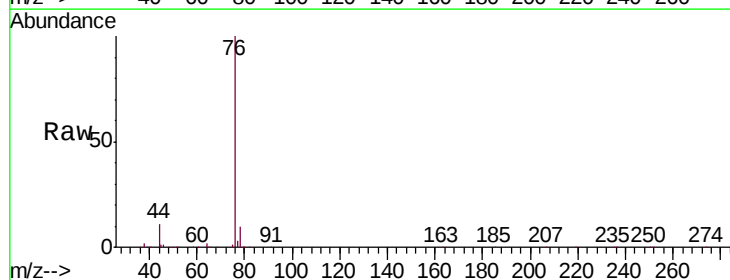
Acq: 22 May 2019 15:01

Tgt Ion: 76 Resp: 220487

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU032218.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032218.D (-416) (-)

2.47

150000

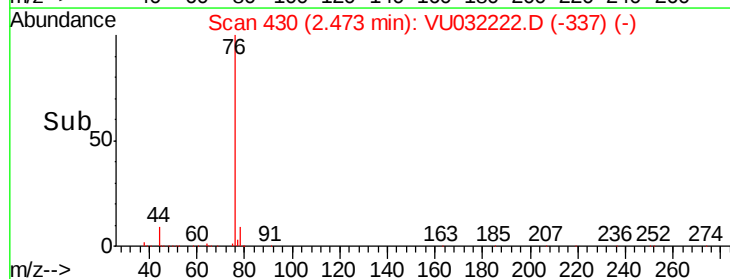
100000

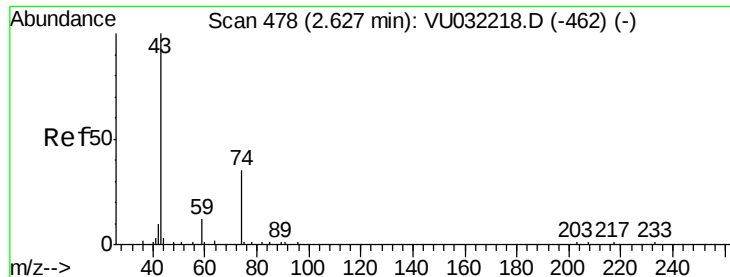
50000

0

2.40 2.45 2.50 2.55 2.60

Time-->

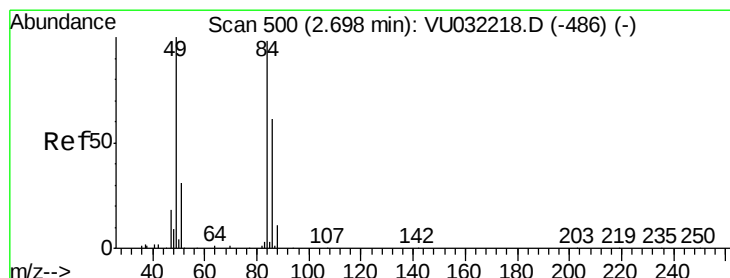
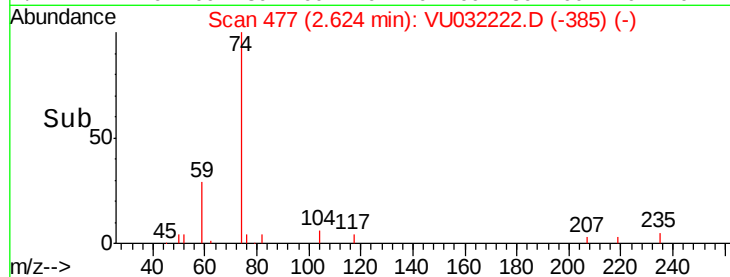
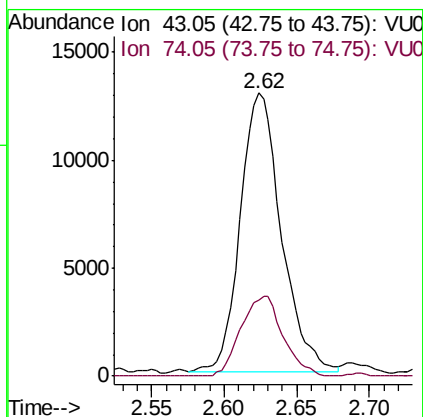
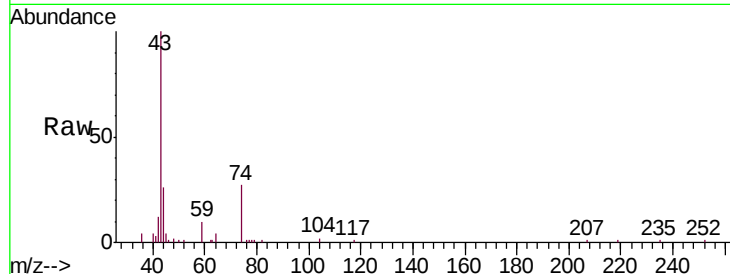




#15
Methyl Acetate
Concen: 4.307 ug/L
RT: 2.62 min Scan# 477
Delta R.T. -0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

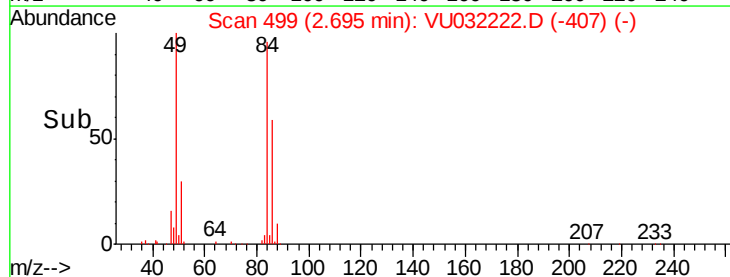
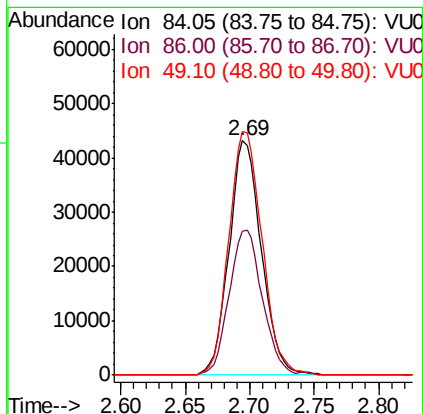
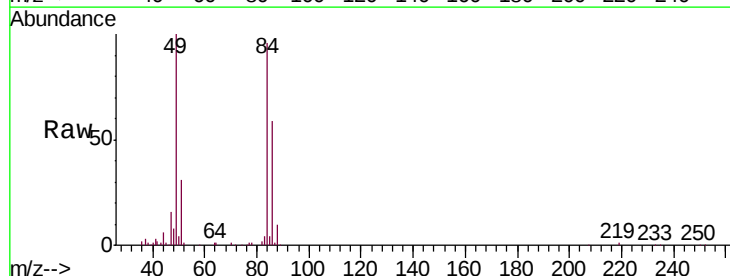
Instrument :
MSVOA_U
ClientSampled :
VSTD00510

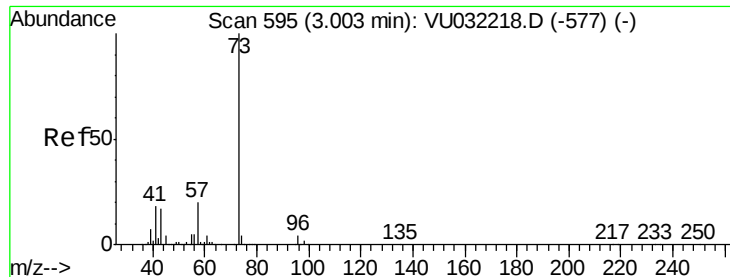
Tgt Ion: 43 Resp: 25499
Ion Ratio Lower Upper
43 100
74 29.3 27.3 40.9



#16
Methylene chloride
Concen: 3.857 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Tgt Ion: 84 Resp: 75259
Ion Ratio Lower Upper
84 100
86 61.1 43.6 81.0
49 103.9 71.1 132.1





#17

Methyl tert-butyl Ether

Concen: 5.046 ug/L

RT: 3.00 min Scan# 595

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

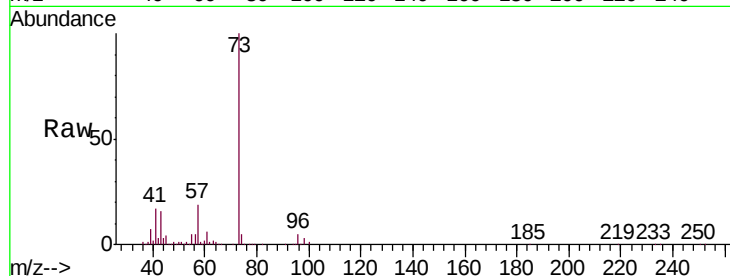
Tgt Ion: 73 Resp: 166433

Ion Ratio Lower Upper

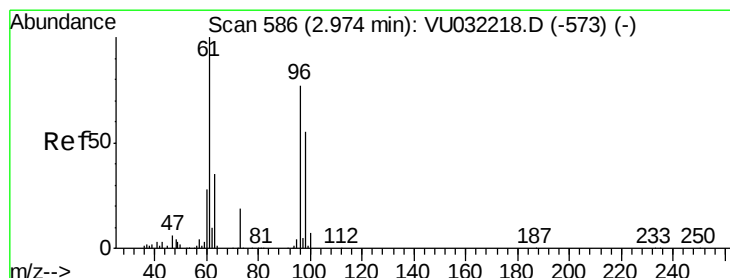
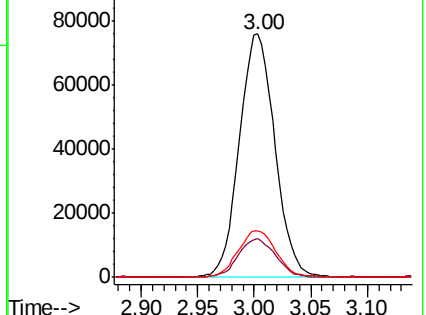
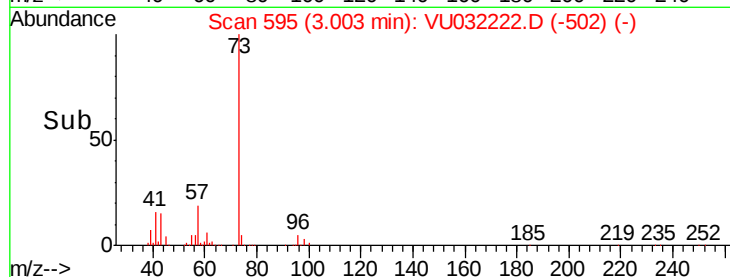
73 100

43 16.6 13.8 20.6

57 20.5 16.2 24.4



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 4.839 ug/L

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

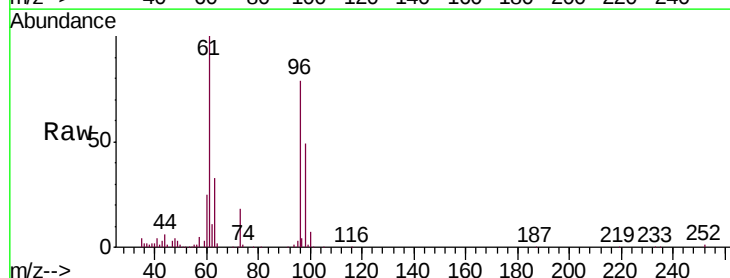
Tgt Ion: 96 Resp: 75979

Ion Ratio Lower Upper

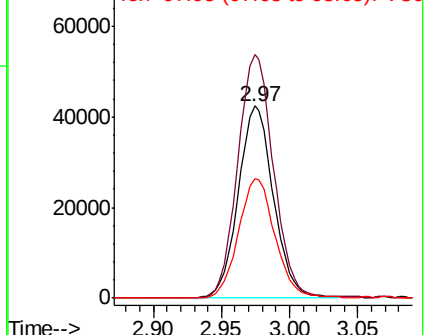
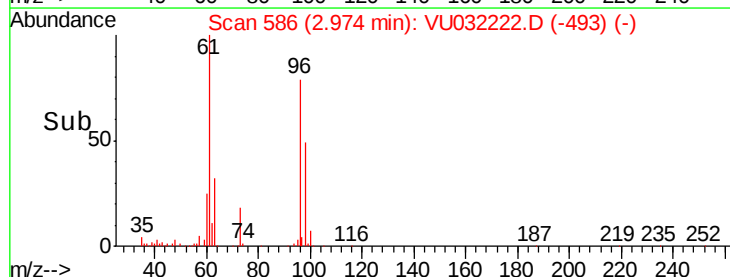
96 100

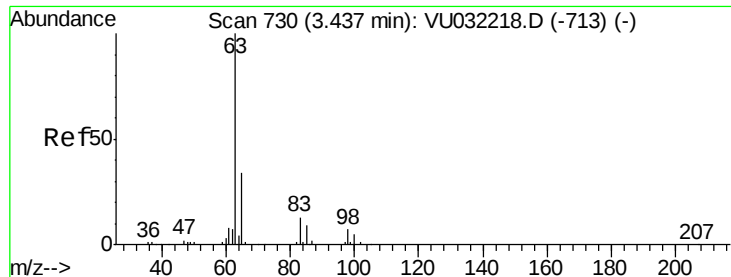
61 126.7 90.6 168.3

98 62.0 49.5 91.9



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

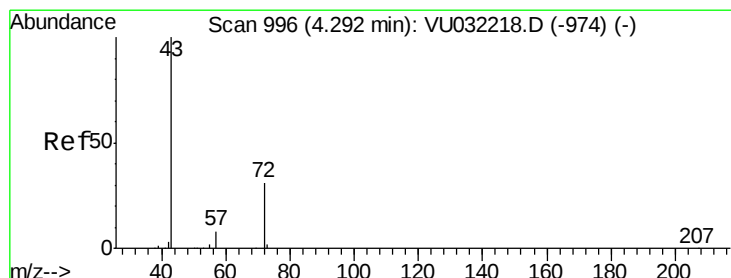
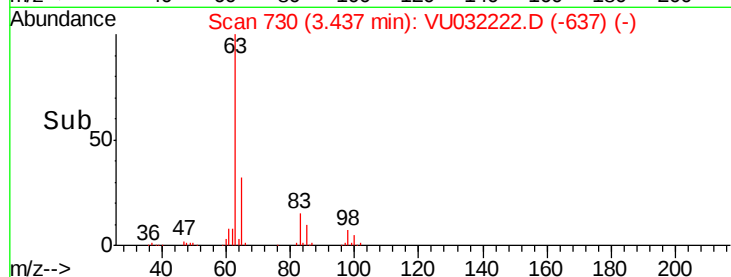
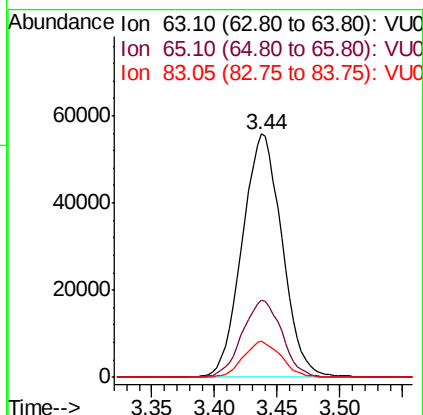
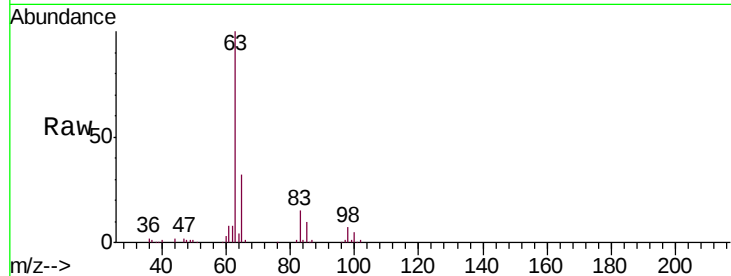




#19
 1,1-Dichloroethane
 Concen: 5.084 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

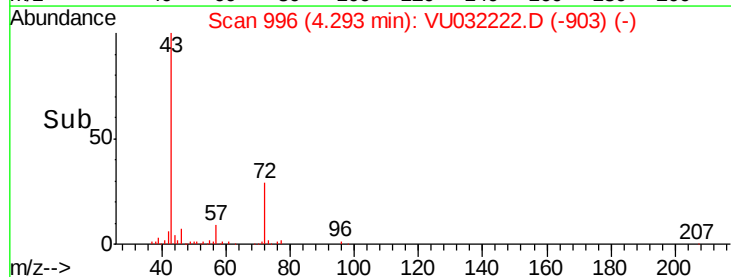
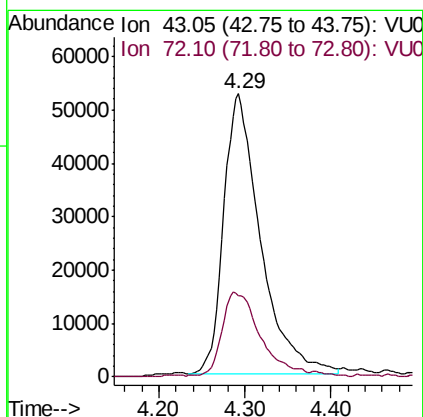
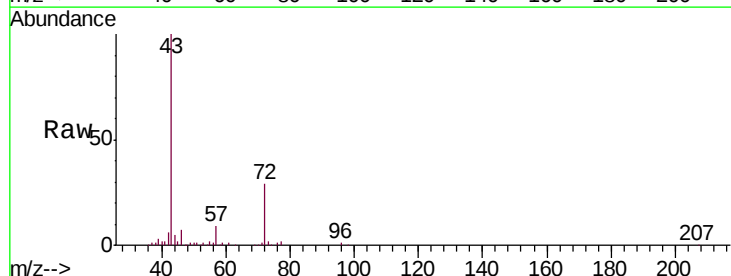
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

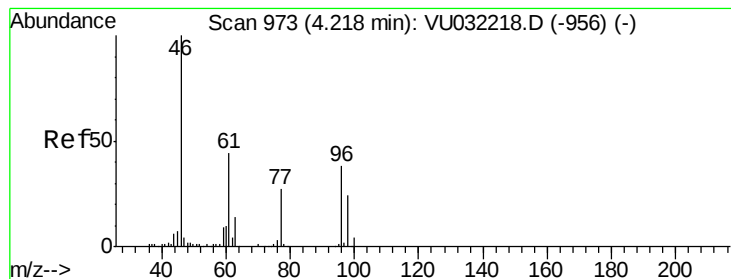
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.5	43.7
83	14.9	8.8	16.3



#21
 2-Butanone
 Concen: 51.503 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	30.1	15.2	45.6



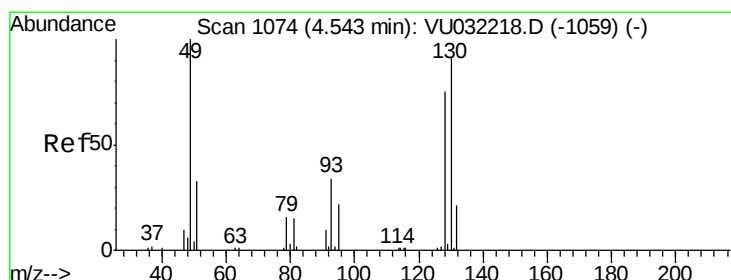
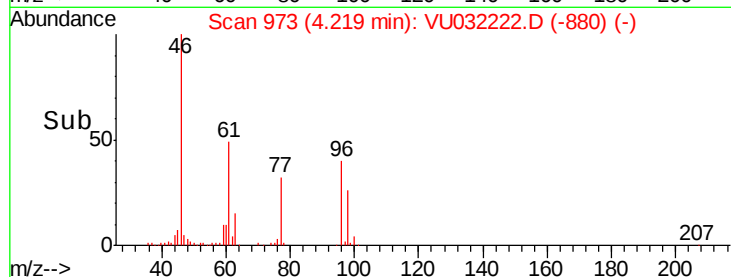
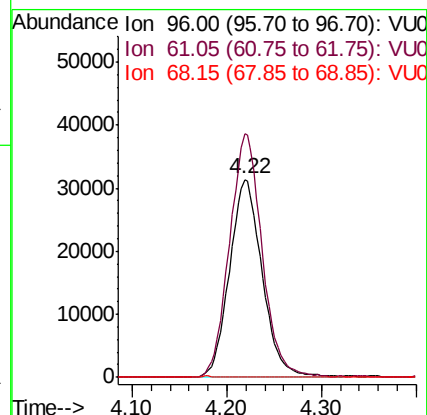
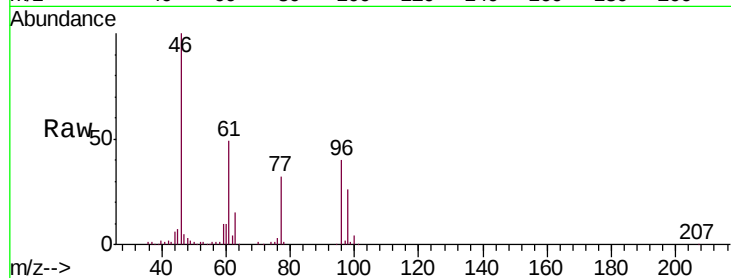


#22

cis-1,2-Dichloroethene
Concen: 4.918 ug/L
RT: 4.22 min Scan# 973
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

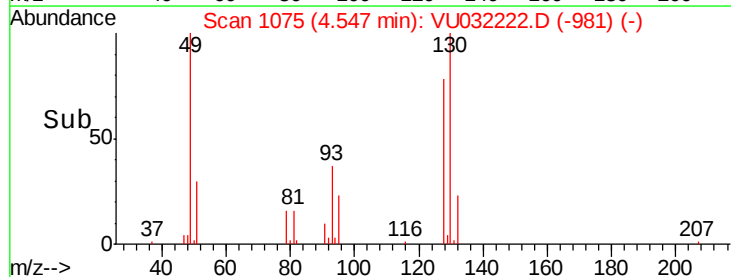
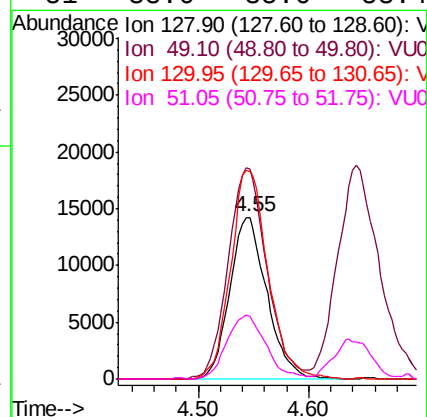
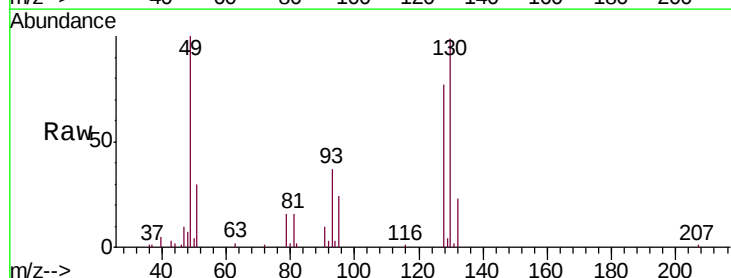
Tgt Ion: 96 Resp: 75380
Ion Ratio Lower Upper
96 100
61 123.0 82.5 153.1
68 0.0 0.0 0.0

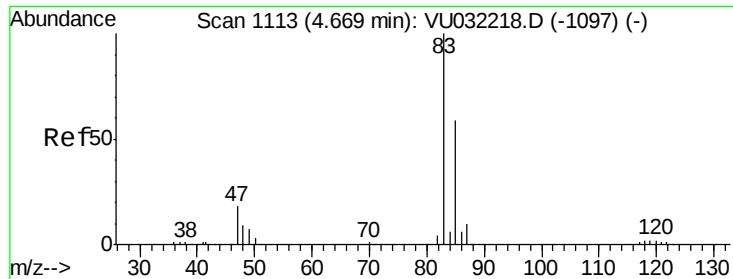


#23

Bromochloromethane
Concen: 4.908 ug/L
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Tgt Ion: 128 Resp: 33246
Ion Ratio Lower Upper
128 100
49 129.7 93.9 174.3
130 128.0 85.3 158.3
51 38.6 35.6 53.4

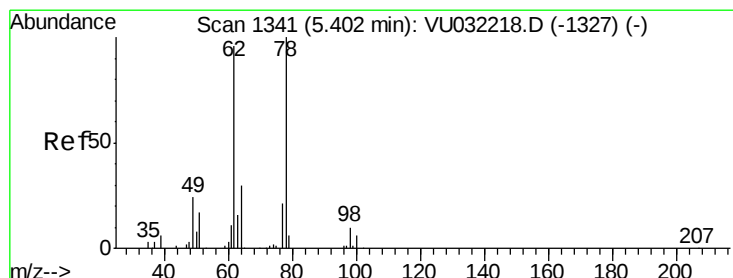
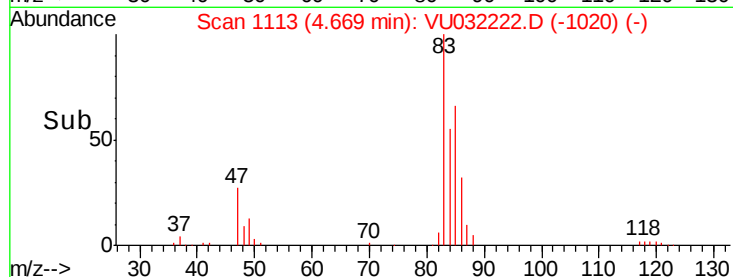
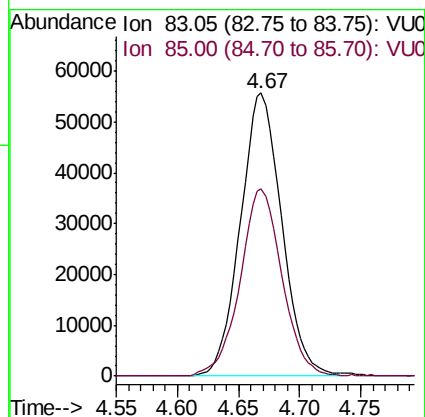
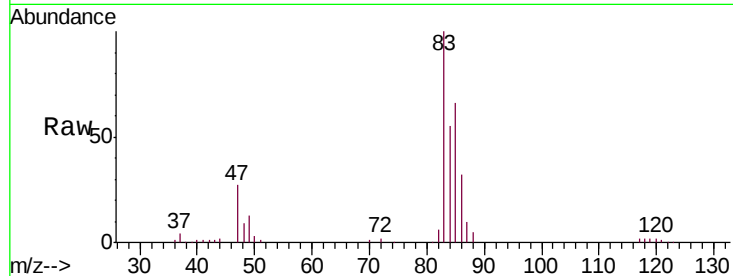




#25
Chloroform
Concen: 4.988 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

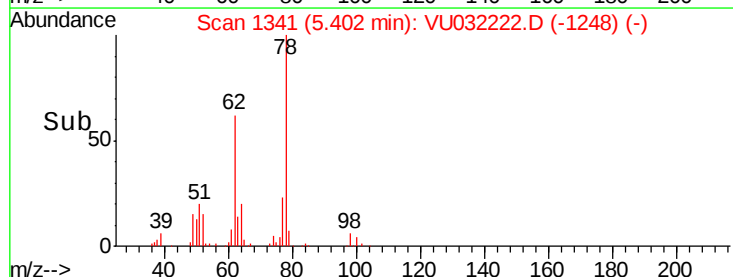
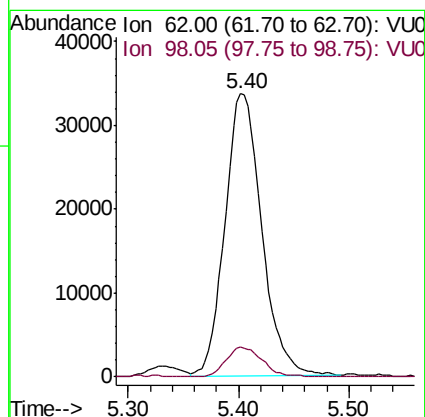
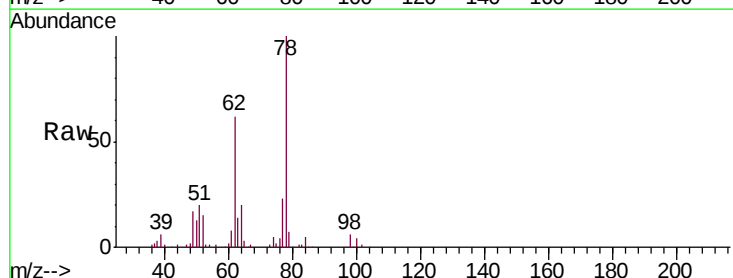
Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

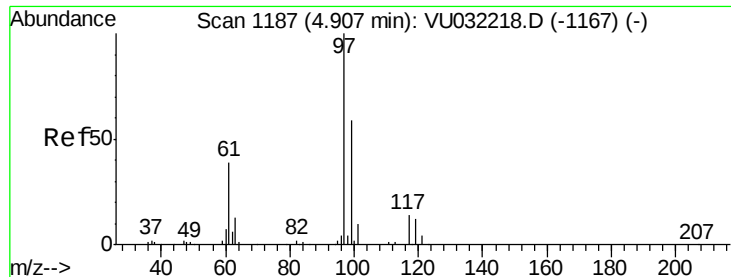
Tgt Ion: 83 Resp: 130628
Ion Ratio Lower Upper
83 100
85 66.2 41.6 77.3



#27
1,2-Dichloroethane
Concen: 5.105 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Tgt Ion: 62 Resp: 77820
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.2

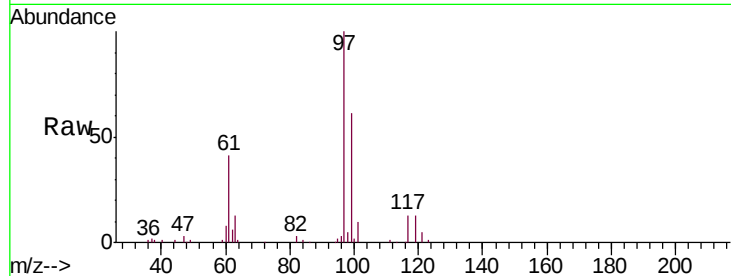




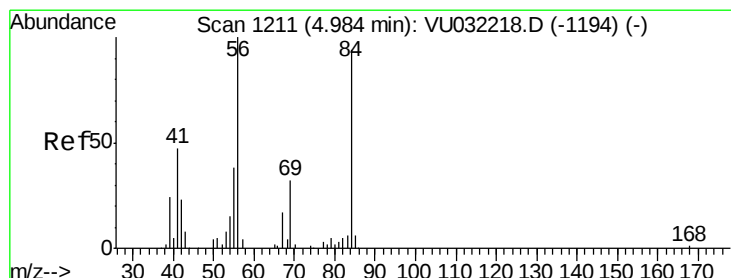
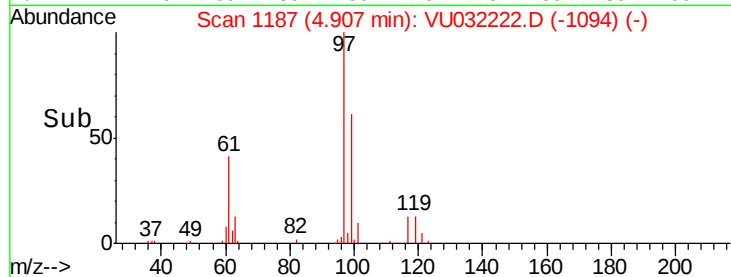
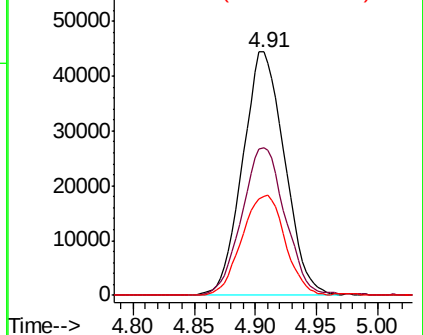
#29
 1,1,1-Trichloroethane
 Concen: 5.119 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tgt Ion	Resp	Lower	Upper
97	105840		
99	62.8	50.3	75.5
61	42.2	34.1	51.1

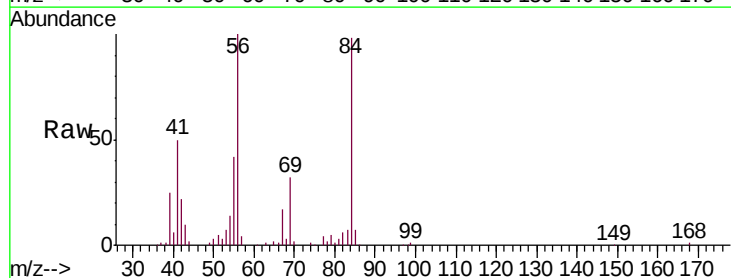


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

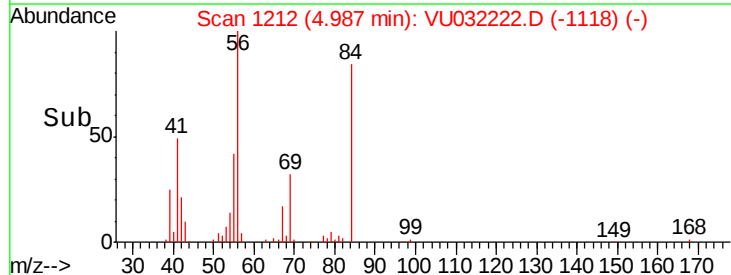
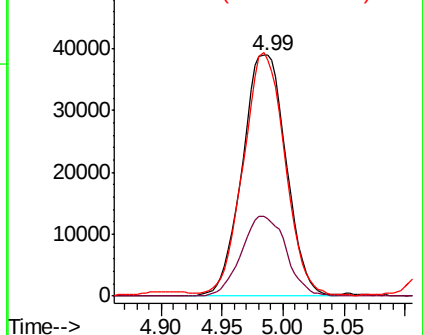


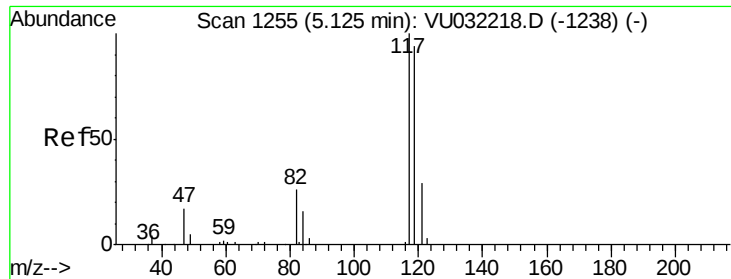
#30
 Cyclohexane
 Concen: 5.019 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Tgt Ion	Resp	Lower	Upper
56	97008		
69	33.5	26.6	39.8
84	94.7	75.0	112.6



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.077 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

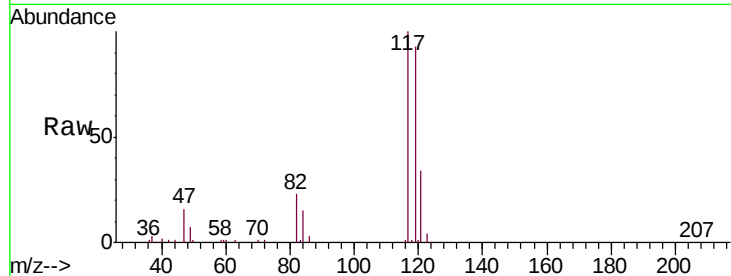
VSTD00510

Tgt Ion:117 Resp: 92471

Ion Ratio Lower Upper

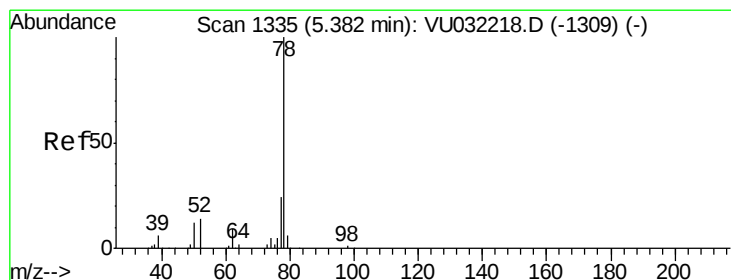
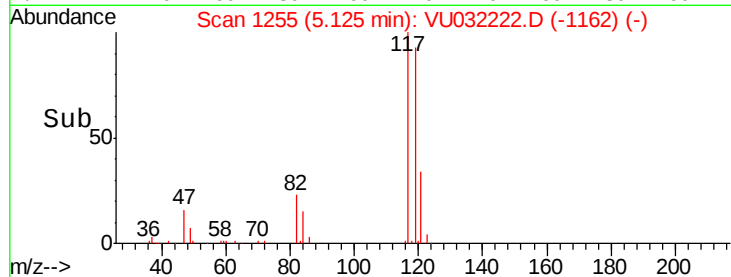
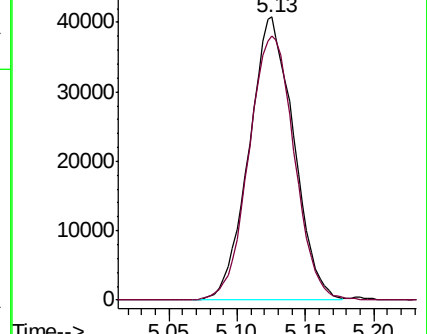
117 100

119 95.0 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.347 ug/L

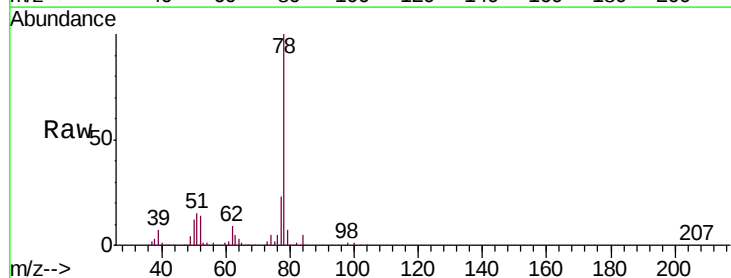
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

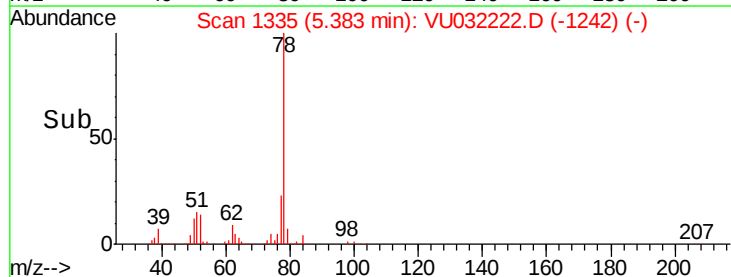
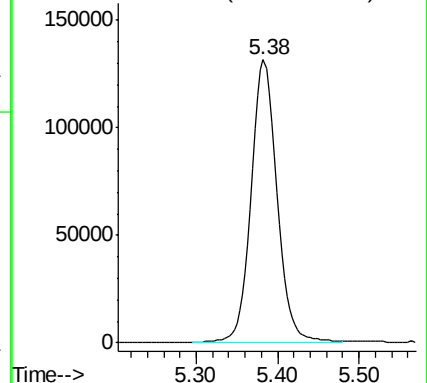
Lab File: VU032222.D

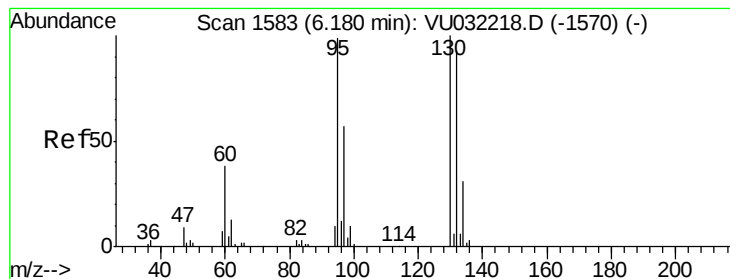
Acq: 22 May 2019 15:01

Tgt Ion: 78 Resp: 288146



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.938 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

Tgt Ion: 95 Resp: 71420

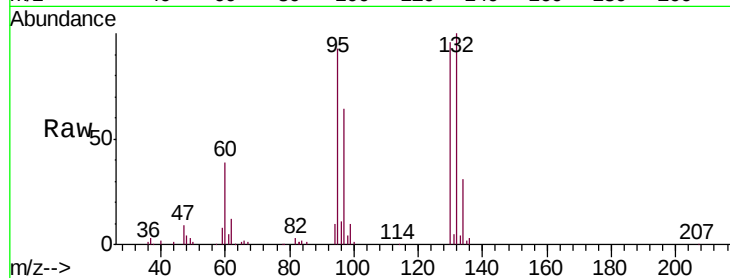
Ion Ratio Lower Upper

95 100

97 68.3 39.9 74.1

132 107.3 65.9 122.5

130 103.2 70.6 131.2

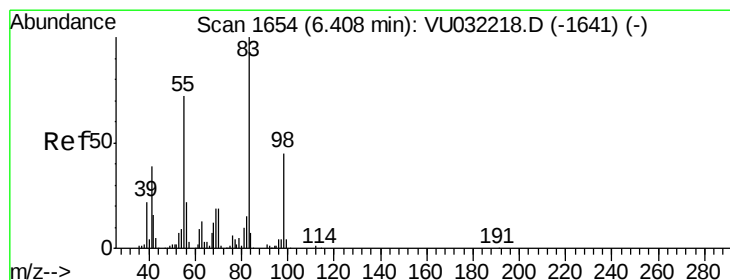
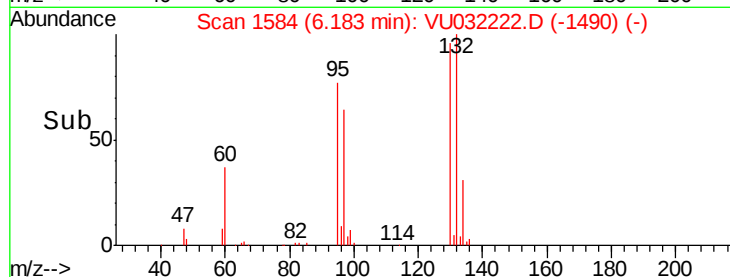
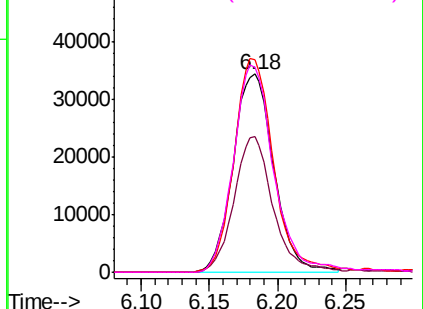


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.096 ug/L

RT: 6.41 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

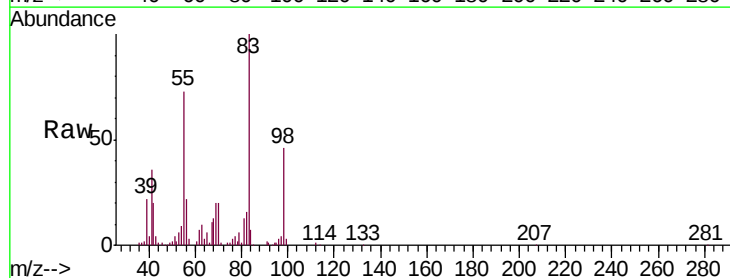
Tgt Ion: 83 Resp: 108556

Ion Ratio Lower Upper

83 100

55 74.7 59.7 89.5

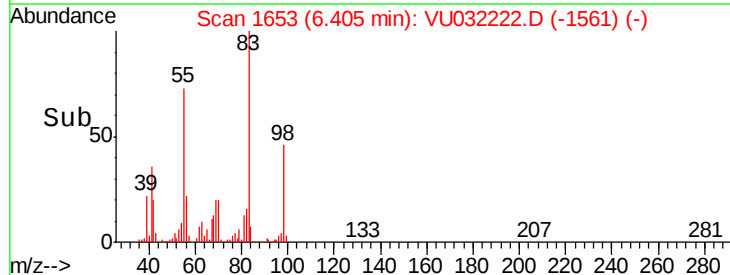
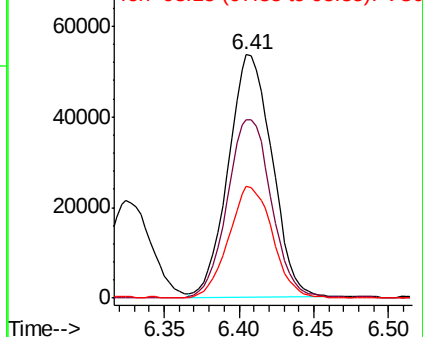
98 46.5 37.5 56.3

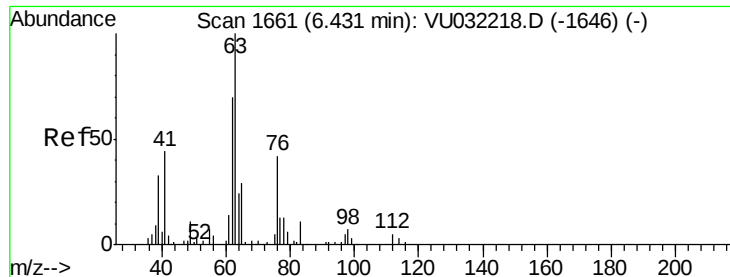


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.220 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

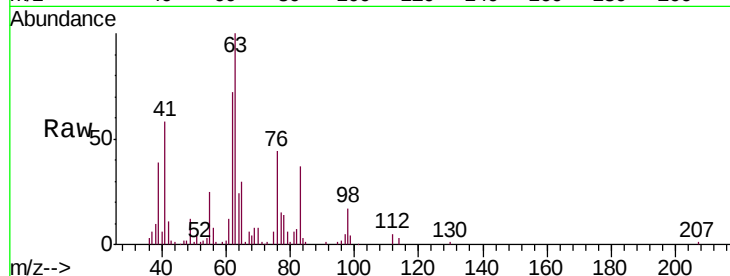
VSTD00510

Tgt Ion: 63 Resp: 67729

Ion Ratio Lower Upper

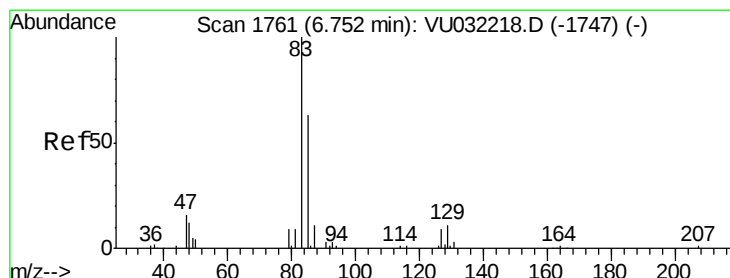
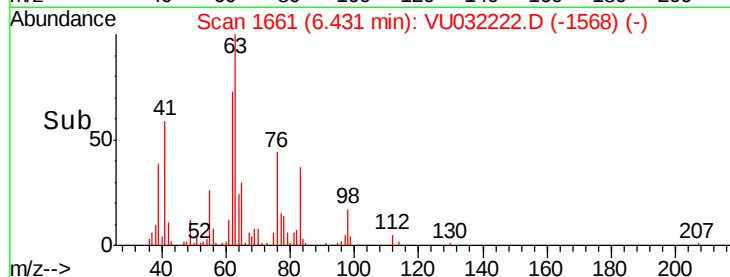
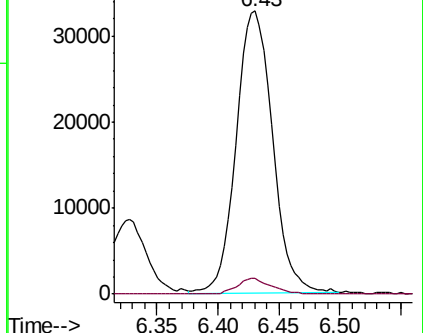
63 100

112 5.2 3.8 5.8



Abundance Ion 63.10 (62.80 to 63.80): VU032218.D (-1646) (-)

Ion 112.10 (111.80 to 112.80): VU032218.D (-1646) (-)



#38

Bromodichloromethane

Concen: 5.178 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

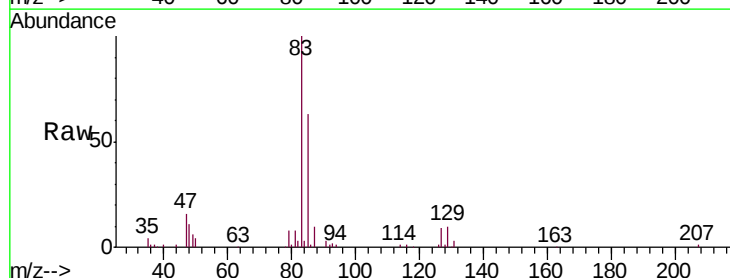
Tgt Ion: 83 Resp: 87303

Ion Ratio Lower Upper

83 100

85 63.0 44.4 82.4

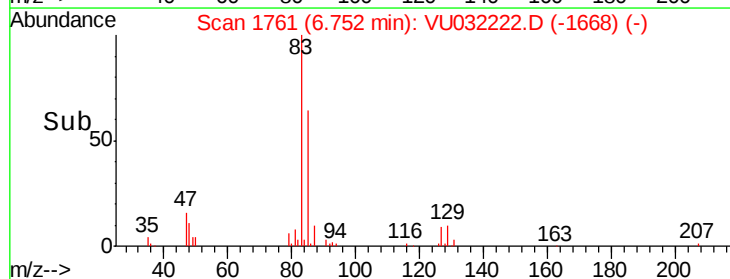
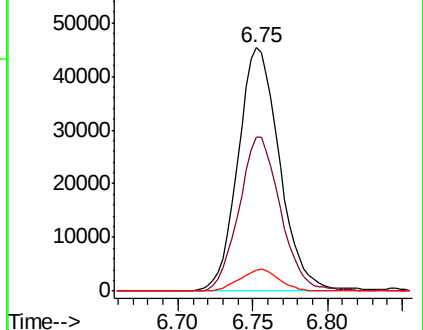
127 8.5 7.0 10.6

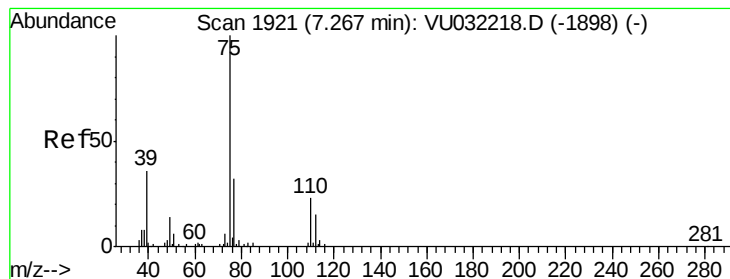


Abundance Ion 82.95 (82.65 to 83.65): VU032218.D (-1747) (-)

Ion 85.00 (84.70 to 85.70): VU032218.D (-1747) (-)

Ion 126.90 (126.60 to 127.60): VU032218.D (-1747) (-)



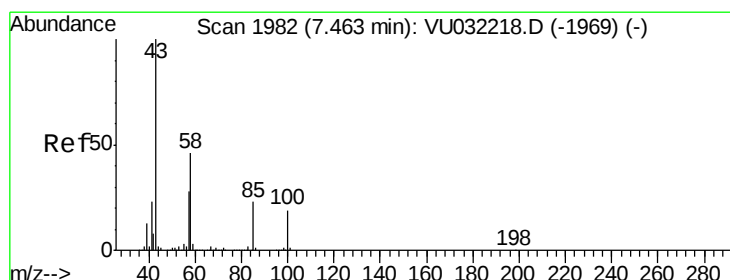
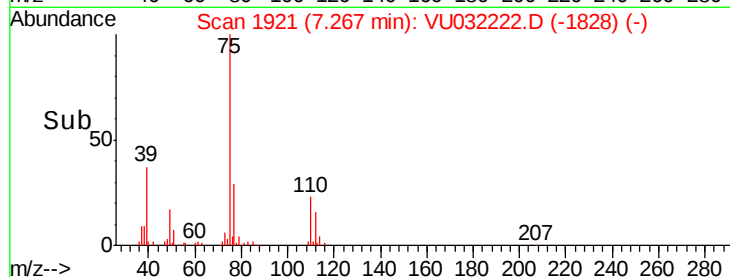
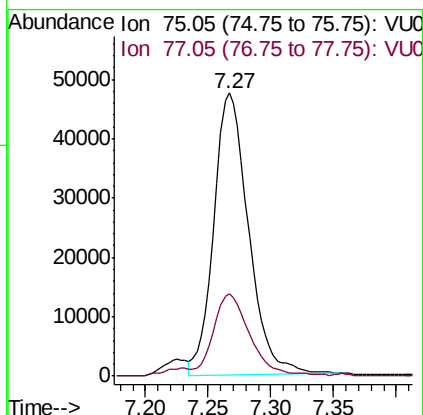
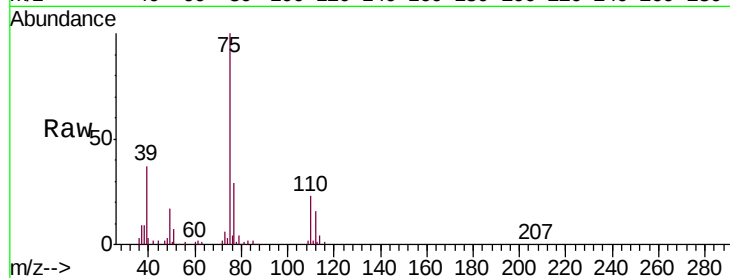


#39

cis-1,3-Dichloropropene
 Concen: 4.959 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

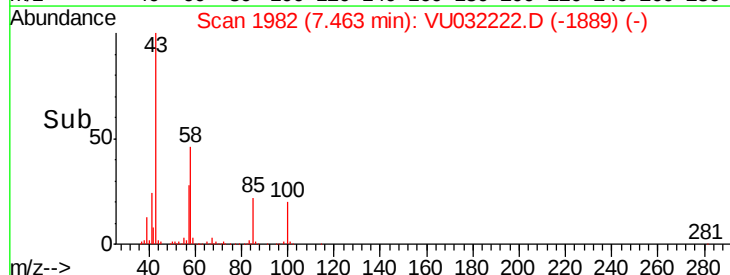
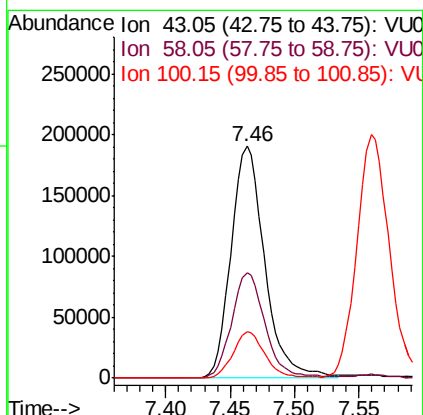
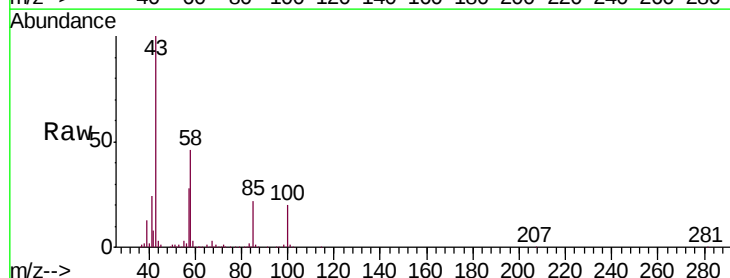
Tgt Ion: 75 Resp: 91603
 Ion Ratio Lower Upper
 75 100
 77 29.3 22.6 42.0

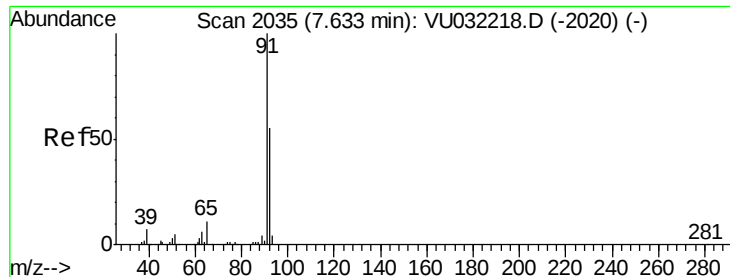


#40

4-Methyl-2-pentanone
 Concen: 52.841 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Tgt Ion: 43 Resp: 346538
 Ion Ratio Lower Upper
 43 100
 58 45.3 35.8 53.6
 100 19.0 14.6 22.0





#42

Toluene

Concen: 5.333 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

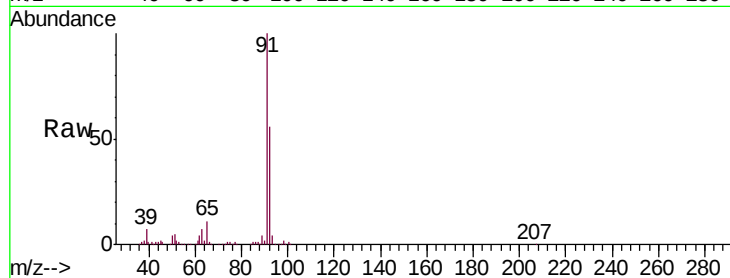
VSTD00510

Tgt Ion: 91 Resp: 305346

Ion Ratio Lower Upper

91 100

92 56.1 38.5 71.5



Abundance Ion 91.15 (90.85 to 91.85): VU032222.D (-1942) (-)

Ion 92.15 (91.85 to 92.85): VU032222.D (-1942) (-)

7.63

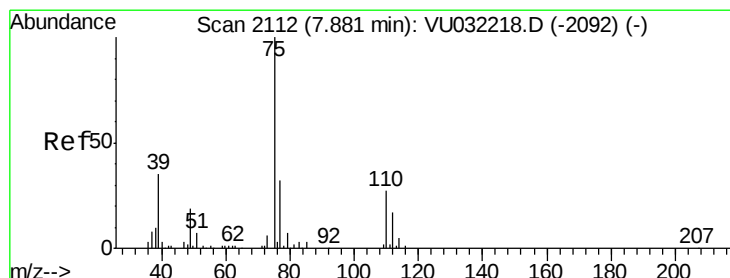
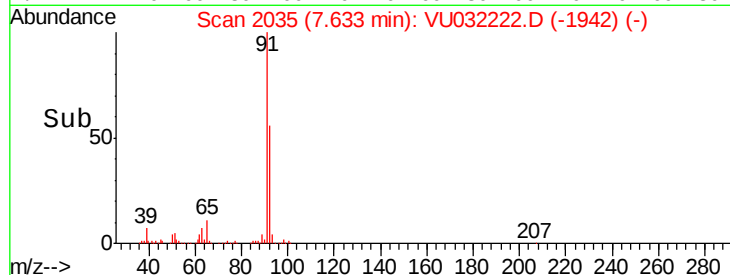
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.256 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU032222.D

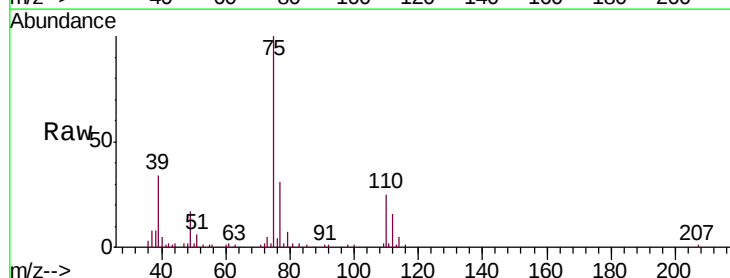
Acq: 22 May 2019 15:01

Tgt Ion: 75 Resp: 76294

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VU032222.D (-2019) (-)

Ion 77.05 (76.75 to 77.75): VU032222.D (-2019) (-)

7.88

40000

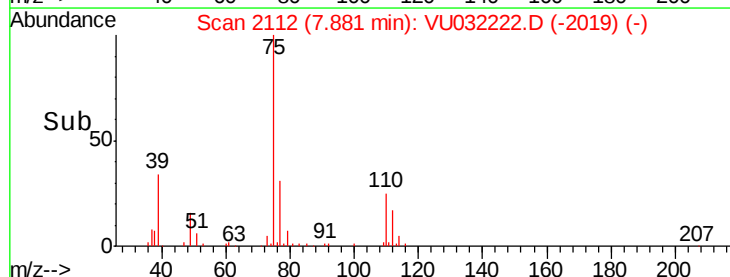
30000

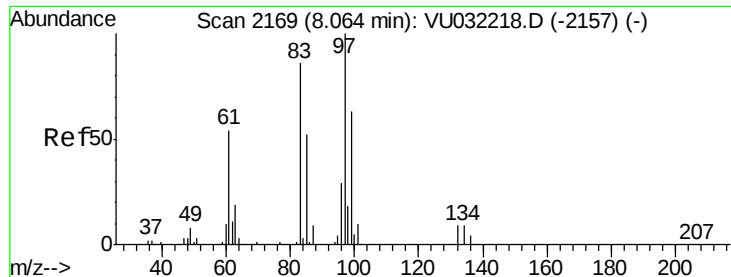
20000

10000

0

Time-->

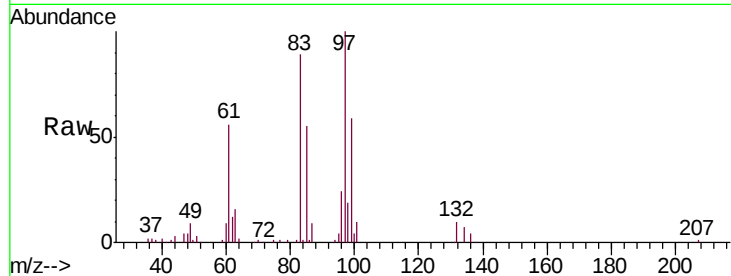




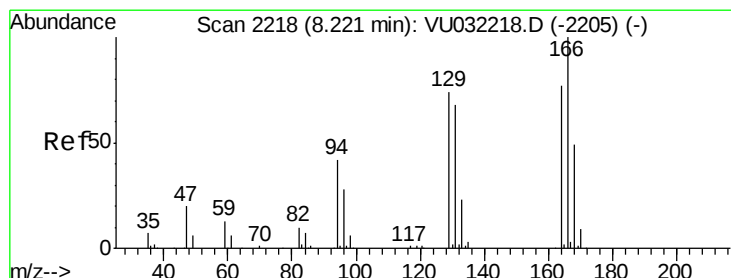
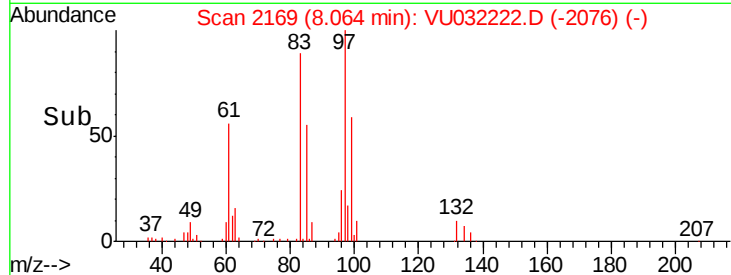
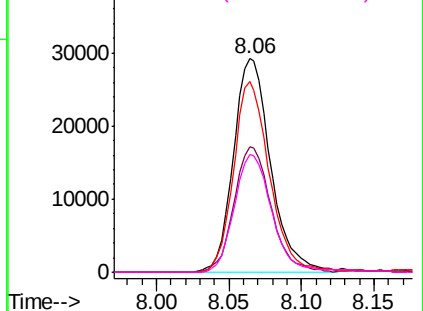
#45
 1,1,2-Trichloroethane
 Concen: 5.201 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tgt Ion:	97	Resp:	52101
Ion	Ratio	Lower	Upper
97	100		
99	58.6	44.2	82.0
83	89.2	60.5	112.3
85	55.3	36.3	67.3

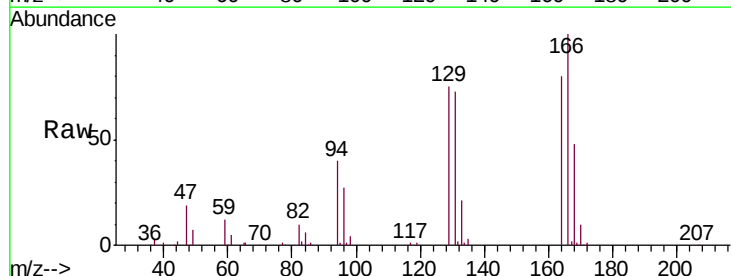


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

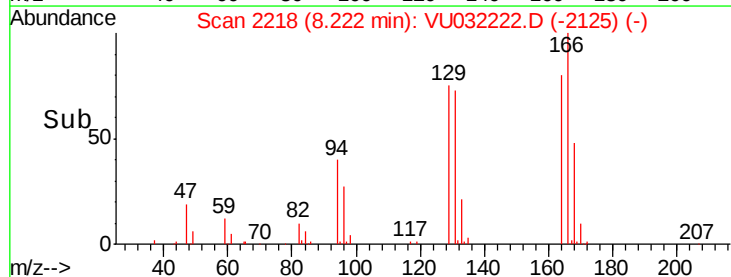
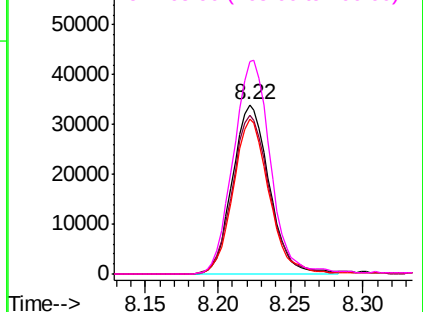


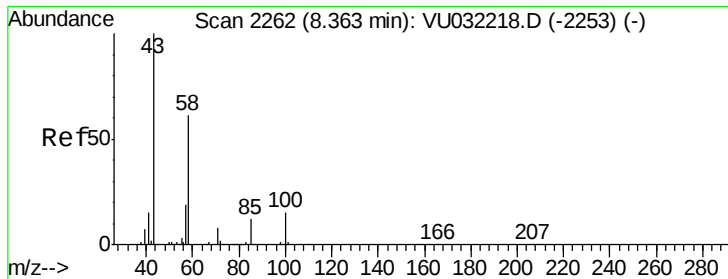
#47
 Tetrachloroethene
 Concen: 5.018 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Tgt Ion:	164	Resp:	59909
Ion	Ratio	Lower	Upper
164	100		
129	94.2	67.1	124.7
131	91.3	62.2	115.4
166	125.7	90.9	168.9



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

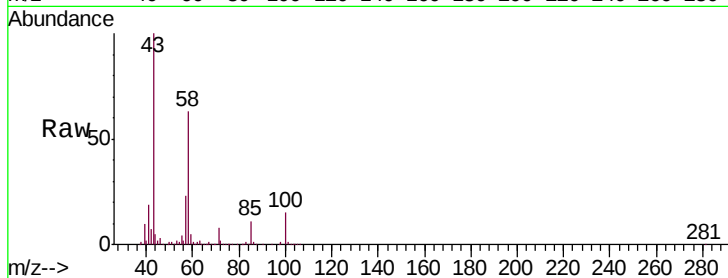




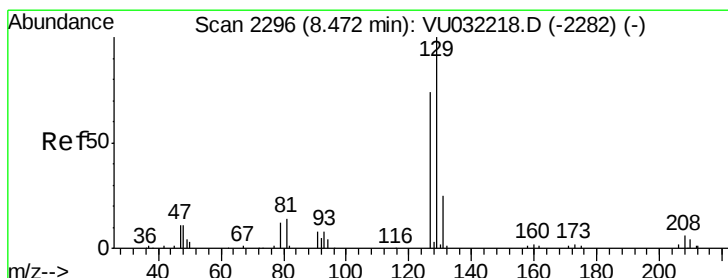
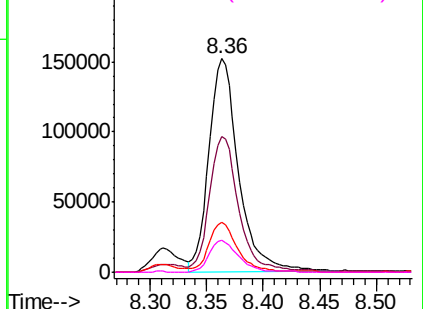
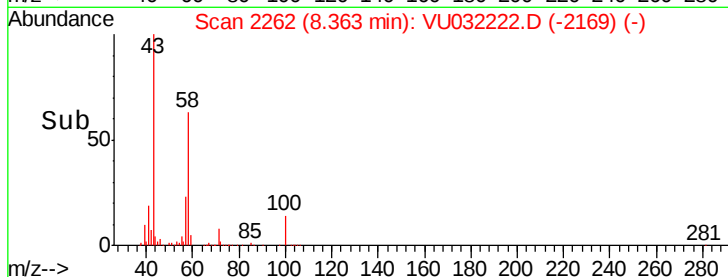
#48
2-Hexanone
Concen: 54.802 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tgt Ion:	43	Resp:	275659
Ion	Ratio	Lower	Upper
43	100		
58	62.5	49.7	74.5
57	21.9	17.1	25.7
100	14.7	11.6	17.4

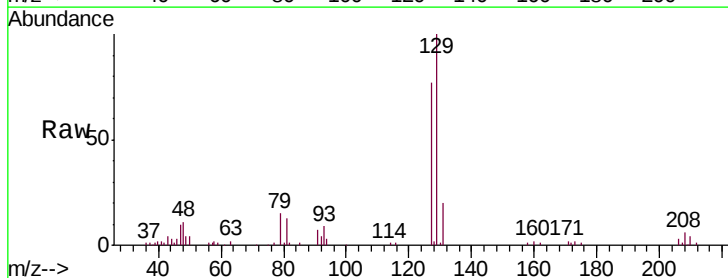


Abundance Ion 43.05 (42.75 to 43.75): VU032222.D (-2169) (-)
Ion 58.05 (57.75 to 58.75): VU032222.D (-2169) (-)
Ion 57.20 (56.90 to 57.90): VU032222.D (-2169) (-)
Ion 100.15 (99.85 to 100.85): VU032222.D (-2169) (-)

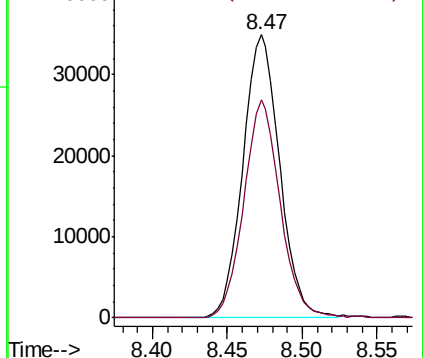
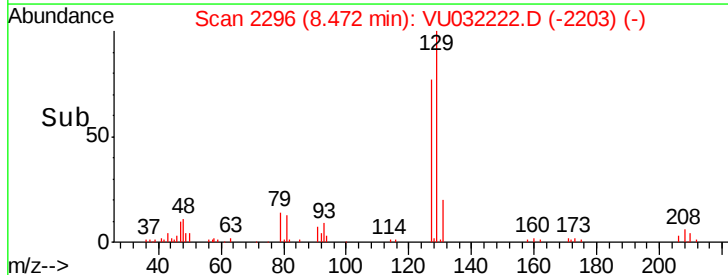


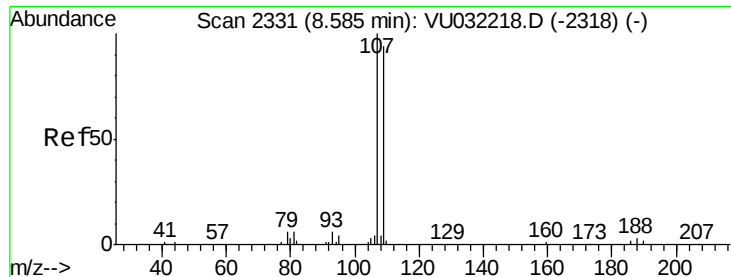
#49
Dibromochloromethane
Concen: 5.259 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Tgt Ion:	129	Resp:	59973
Ion	Ratio	Lower	Upper
129	100		
127	77.2	51.7	95.9



Abundance Ion 128.95 (128.65 to 129.65): VU032222.D (-2203) (-)
Ion 126.90 (126.60 to 127.60): VU032222.D (-2203) (-)





#50

1,2-Dibromoethane

Concen: 5.303 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

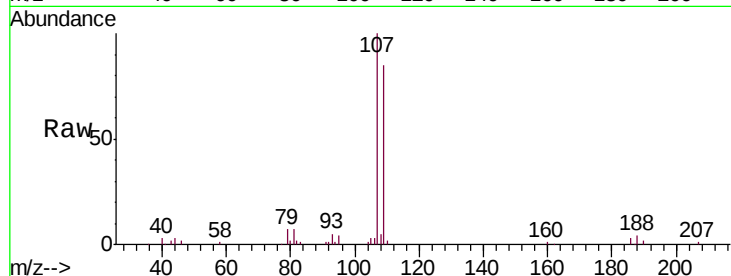
Tgt Ion:107 Resp: 50086

Ion Ratio Lower Upper

107 100

109 85.3 65.8 122.2

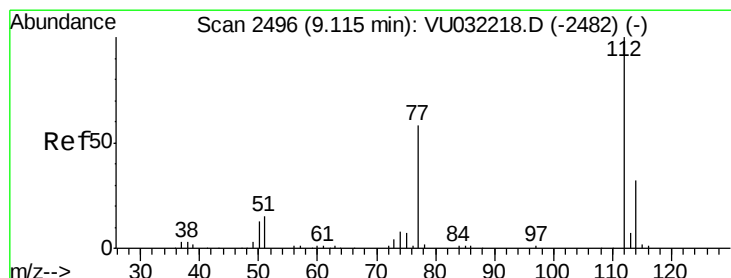
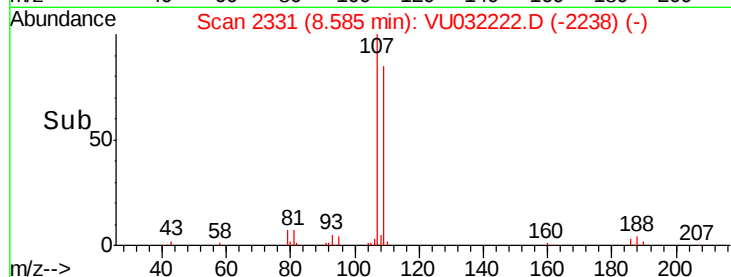
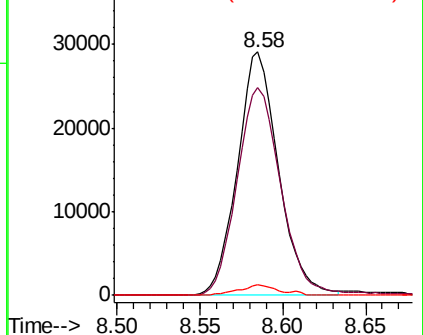
188 4.2 2.6 3.8#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 5.139 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

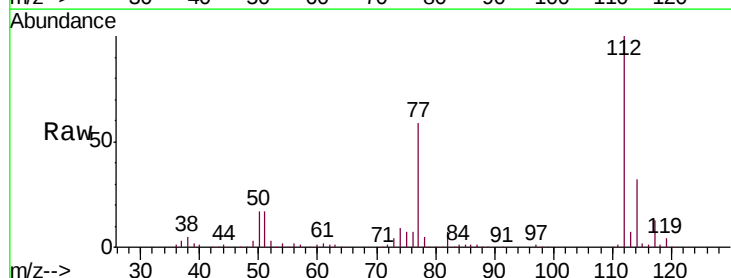
Tgt Ion:112 Resp: 188314

Ion Ratio Lower Upper

112 100

114 32.0 22.6 42.0

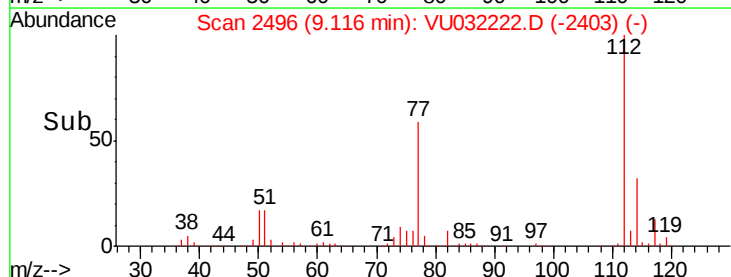
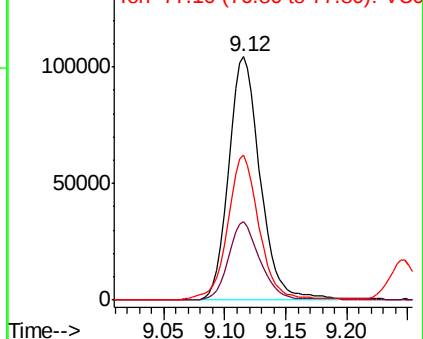
77 59.4 46.8 70.2

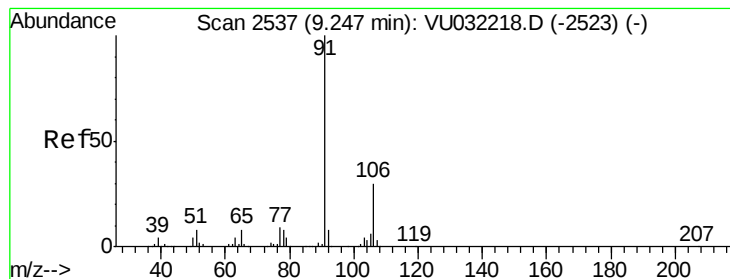


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.170 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

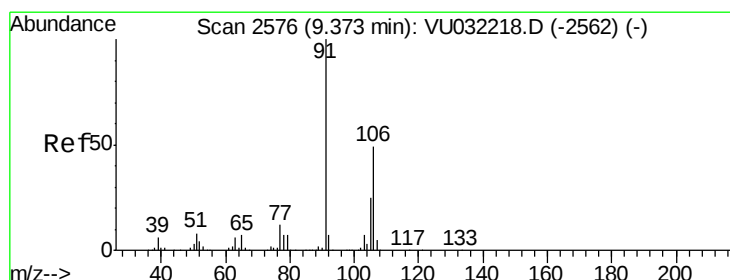
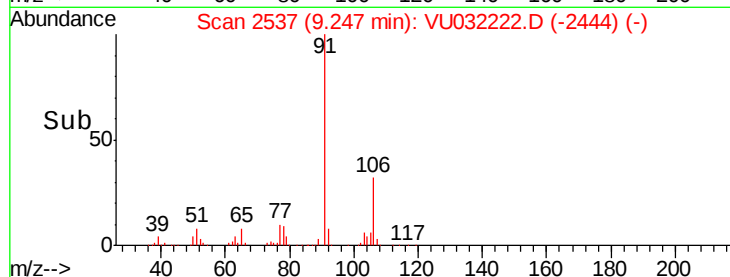
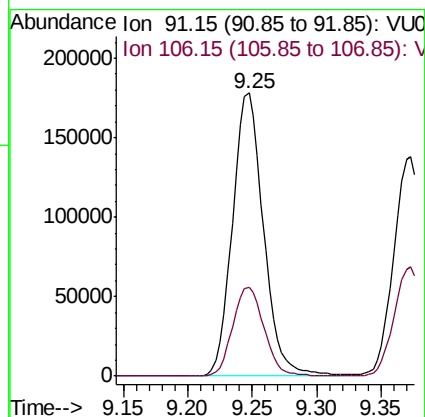
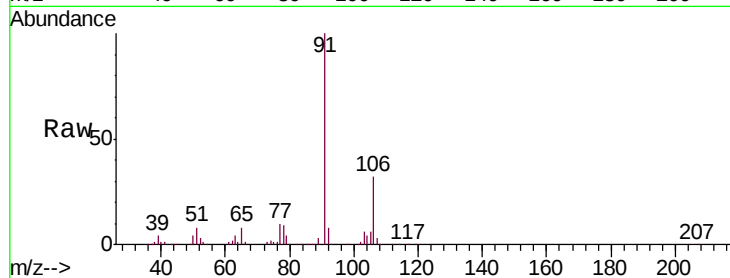
VSTD00510

Tgt Ion: 91 Resp: 297945

Ion Ratio Lower Upper

91 100

106 31.5 20.9 38.9



#53

m,p-Xylene

Concen: 5.523 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032222.D

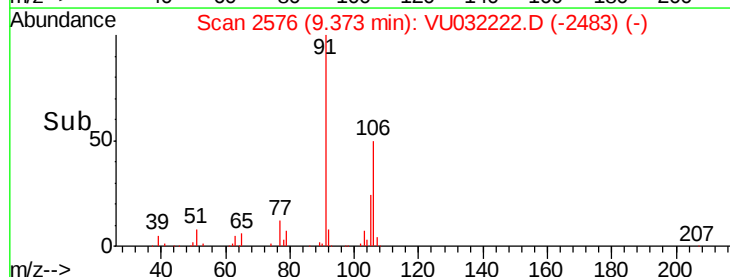
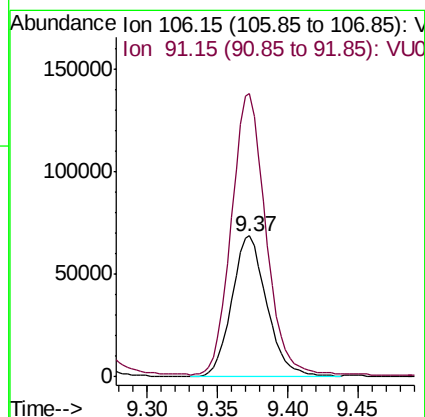
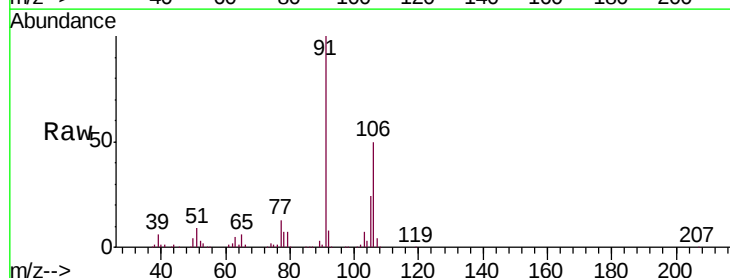
Acq: 22 May 2019 15:01

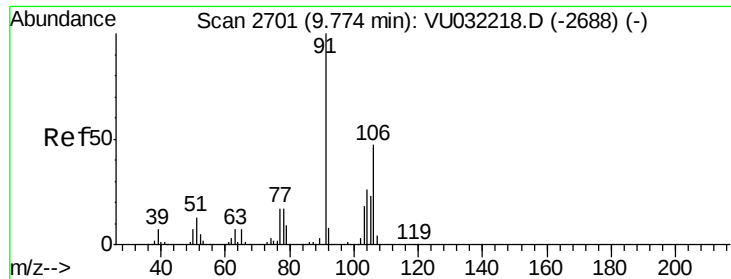
Tgt Ion: 106 Resp: 118375

Ion Ratio Lower Upper

106 100

91 200.7 143.9 267.2

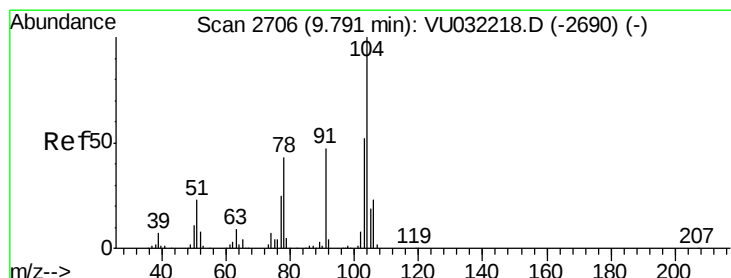
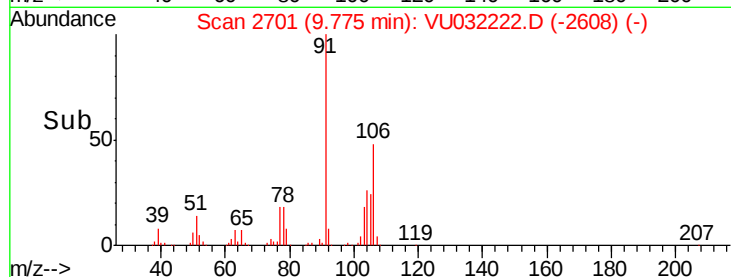
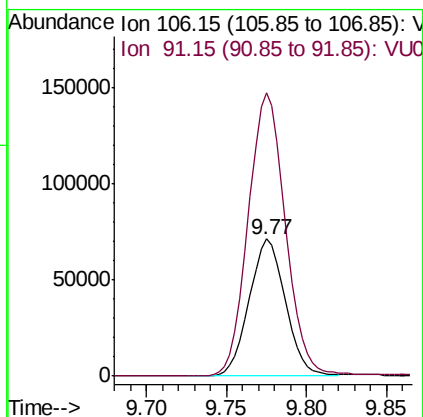
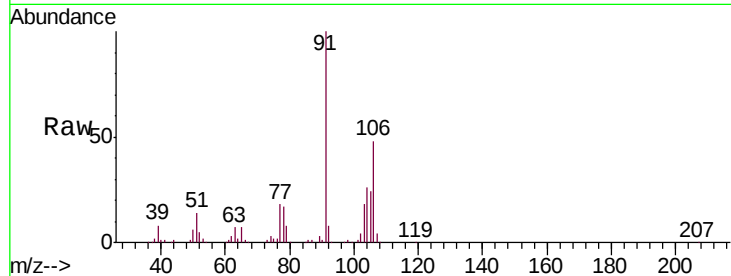




#54
o-Xylene
Concen: 5.174 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

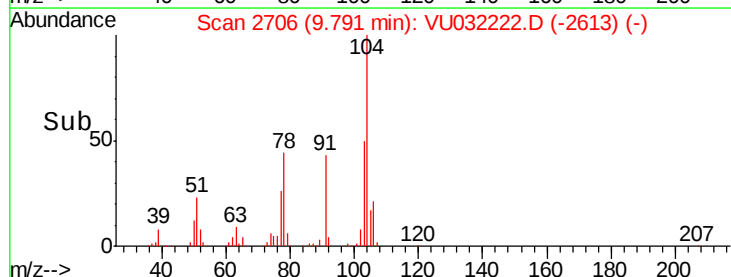
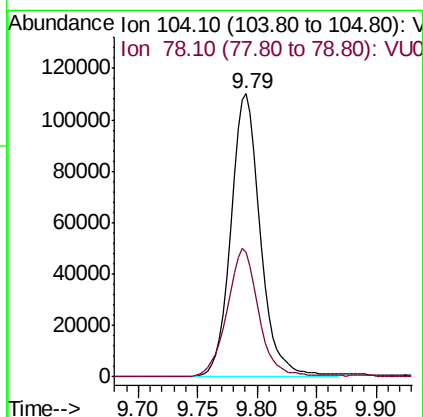
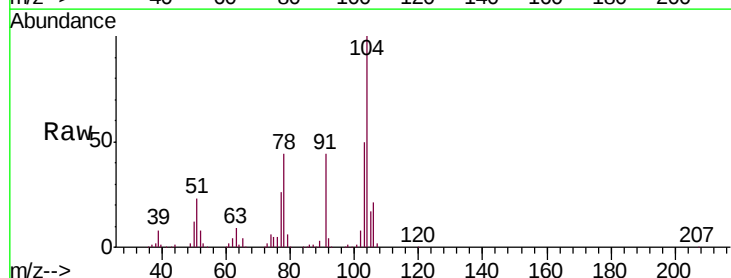
Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

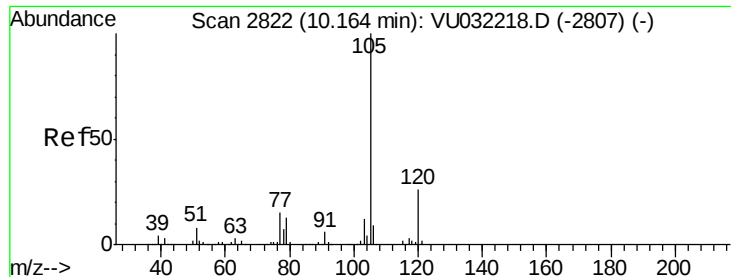
Tgt Ion:106 Resp: 110815
Ion Ratio Lower Upper
106 100
91 206.8 147.8 274.4



#55
Styrene
Concen: 5.287 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Tgt Ion:104 Resp: 189445
Ion Ratio Lower Upper
104 100
78 44.0 30.3 56.3

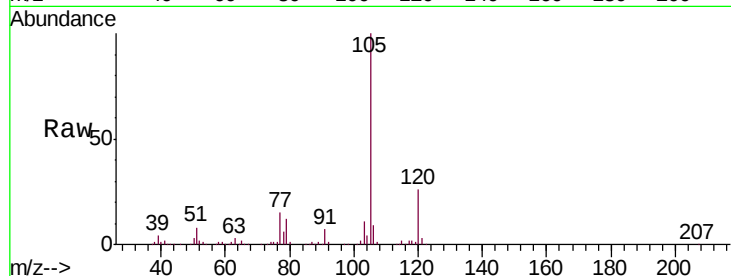




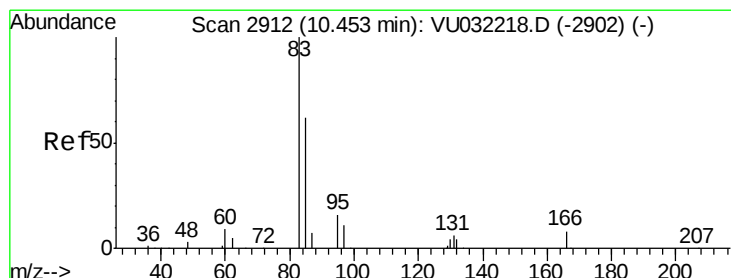
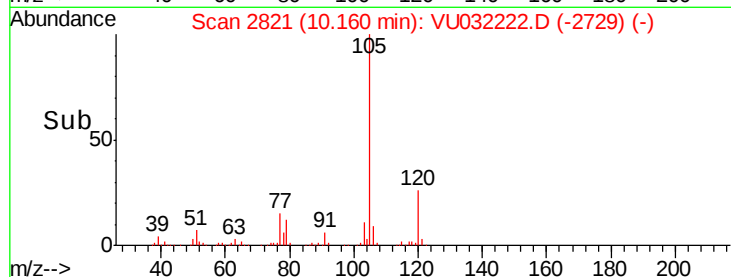
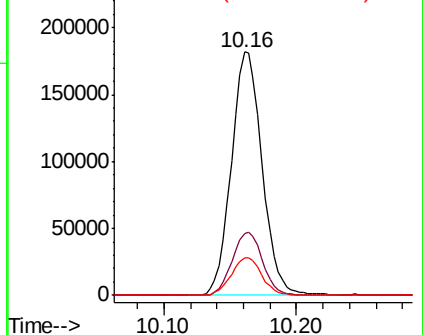
#56
Isopropylbenzene
Concen: 5.414 ug/L
RT: 10.16 min Scan# 2821
Delta R.T. -0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tgt Ion:	105	Resp:	293116
Ion	Ratio	Lower	Upper
105	100		
120	25.8	21.0	31.6
77	15.6	11.9	17.9

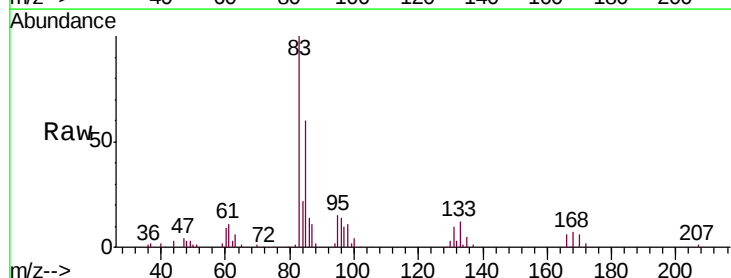


Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V

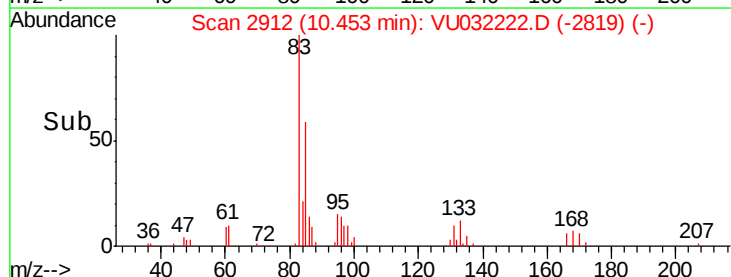
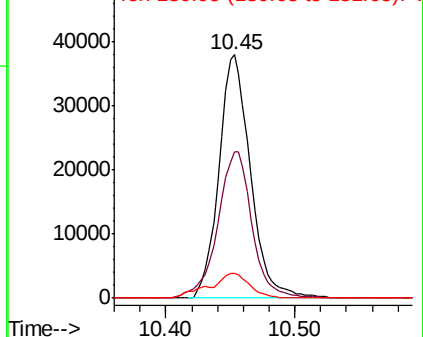


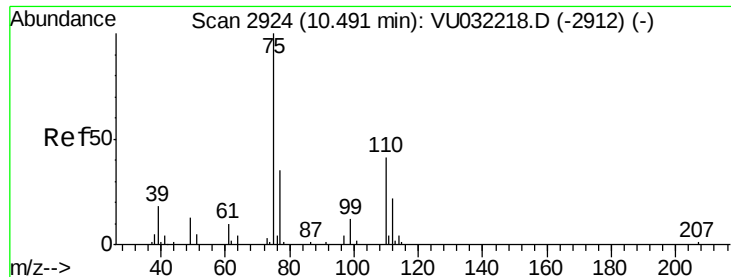
#58
1,1,2,2-Tetrachloroethane
Concen: 5.326 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VU032222.D
Acq: 22 May 2019 15:01

Tgt Ion:	83	Resp:	64274
Ion	Ratio	Lower	Upper
83	100		
85	59.8	46.5	86.3
131	10.1	7.8	11.6



Abundance Ion 82.95 (82.65 to 83.65): VU
Ion 85.00 (84.70 to 85.70): VU
Ion 130.95 (130.65 to 131.65): V

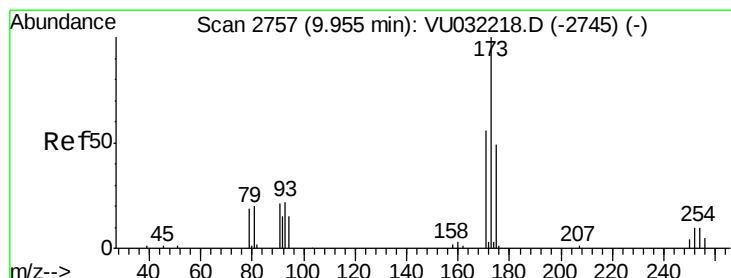
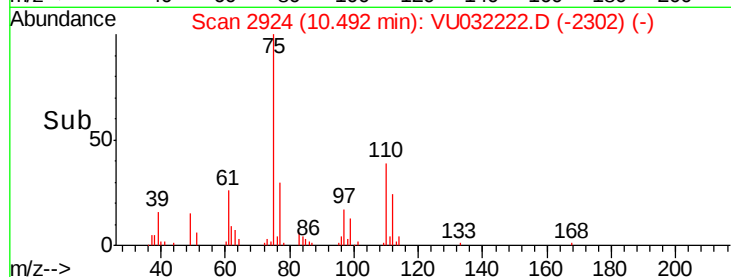
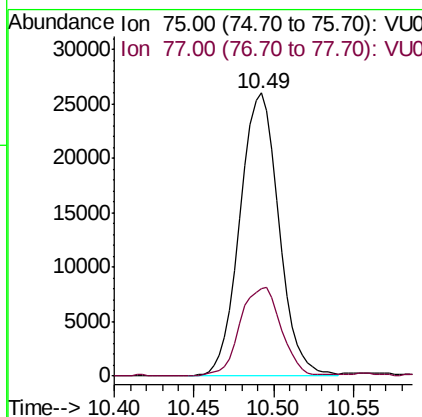
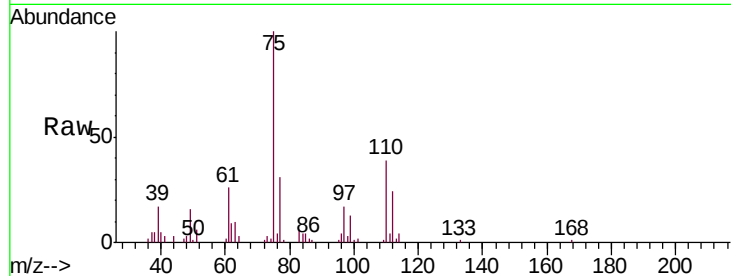




#59
 1,2,3-Trichloropropane
 Concen: 5.128 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

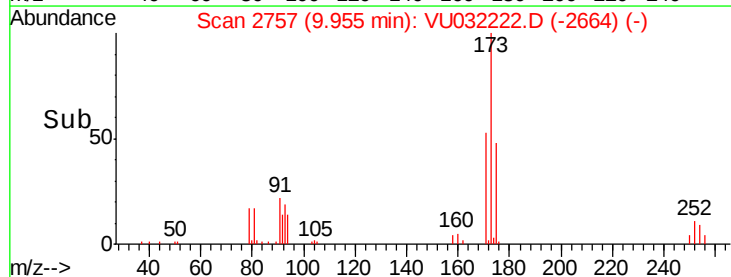
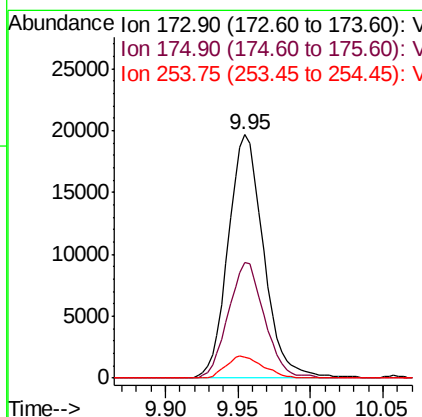
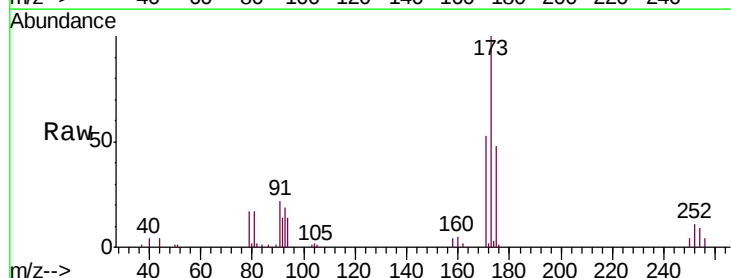
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

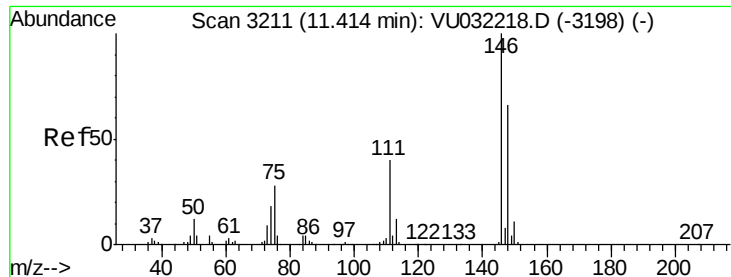
Tgt Ion: 75 Resp: 43323
 Ion Ratio Lower Upper
 75 100
 77 32.9 28.2 42.4



#61
 Bromoform
 Concen: 4.988 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Tgt Ion: 173 Resp: 33385
 Ion Ratio Lower Upper
 173 100
 175 48.4 40.1 60.1
 254 9.5 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.136 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

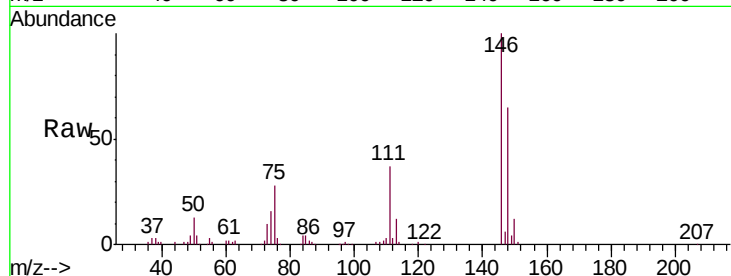
Tgt Ion:146 Resp: 141781

Ion Ratio Lower Upper

146 100

111 37.5 28.2 52.4

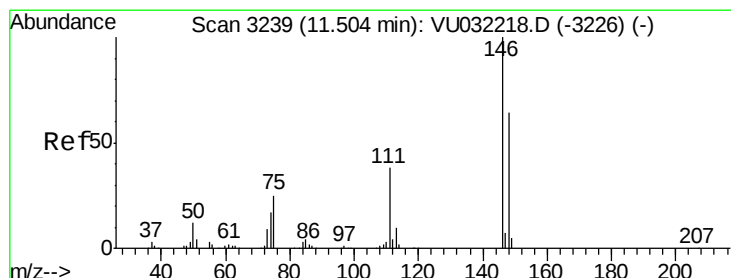
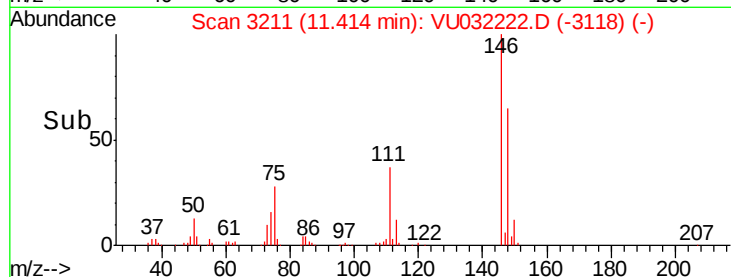
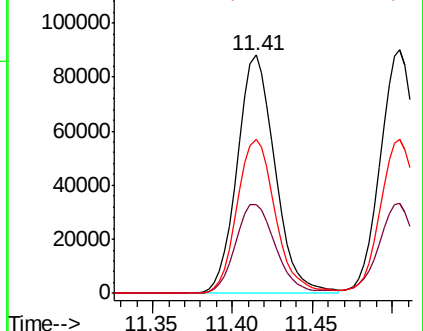
148 64.7 46.0 85.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.956 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

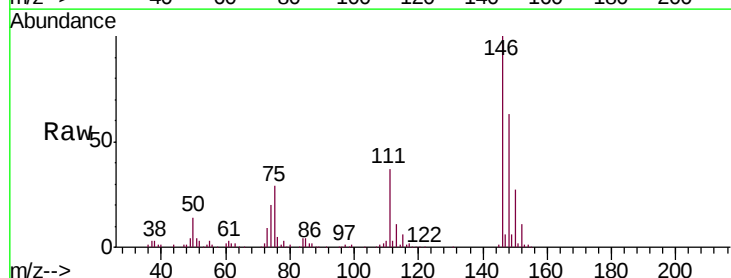
Tgt Ion:146 Resp: 143503

Ion Ratio Lower Upper

146 100

111 36.8 26.6 49.4

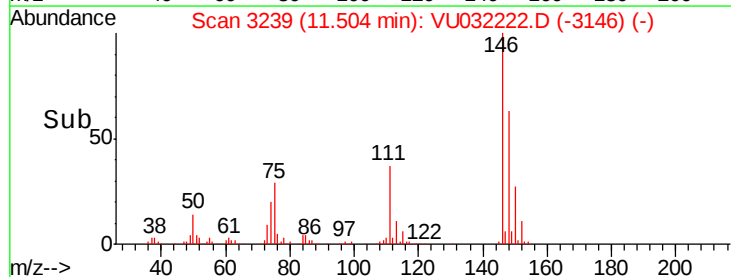
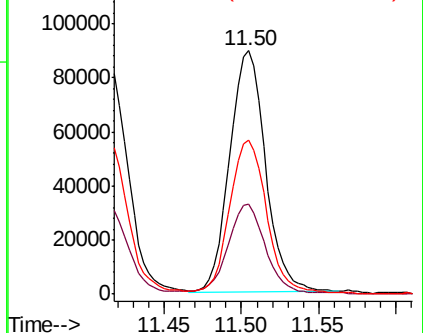
148 63.1 45.2 84.0

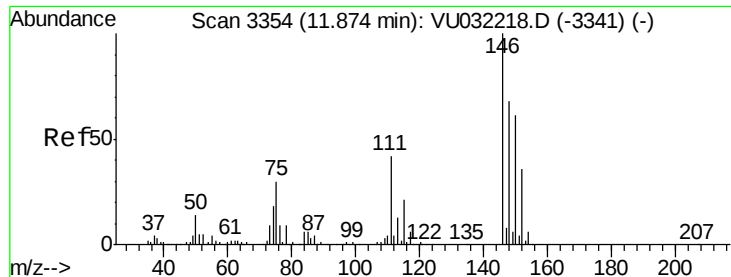


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.149 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

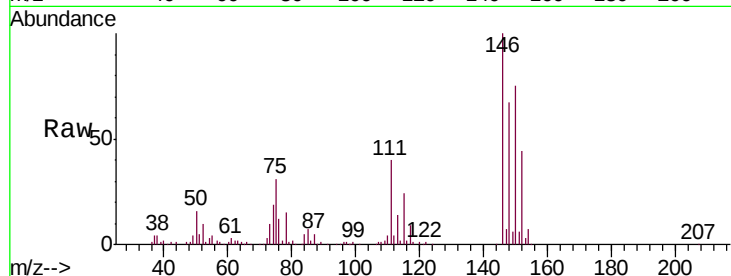
Tgt Ion:146 Resp: 144201

Ion Ratio Lower Upper

146 100

111 40.3 33.9 50.9

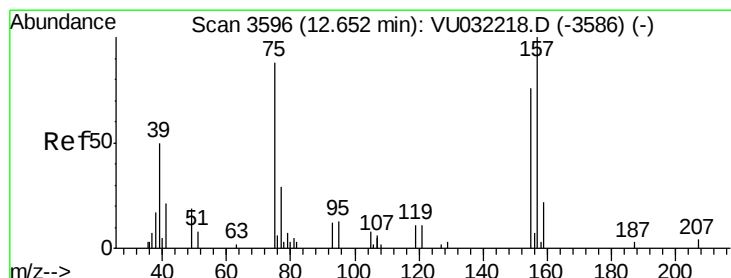
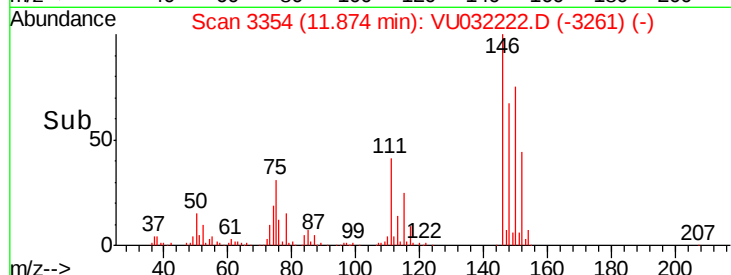
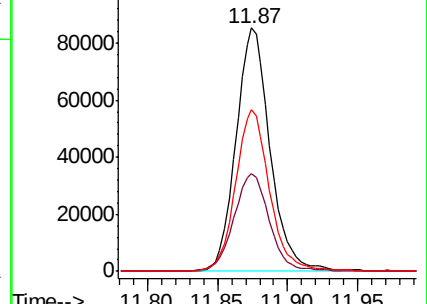
148 66.5 54.3 81.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.274 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

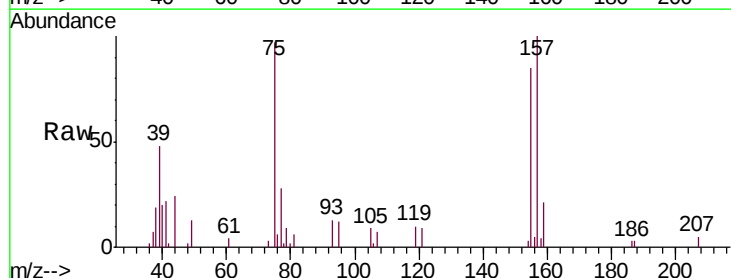
Tgt Ion: 75 Resp: 9537

Ion Ratio Lower Upper

75 100

155 87.5 69.3 103.9

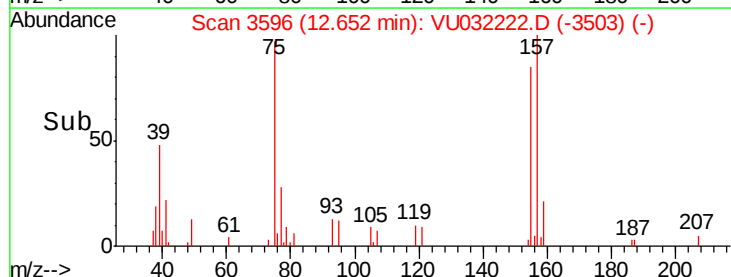
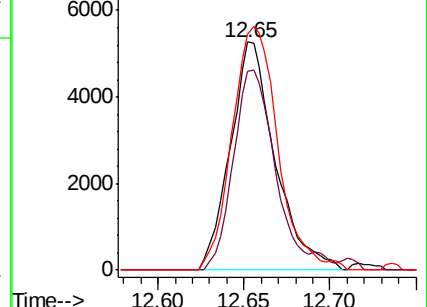
157 103.3 90.6 135.8

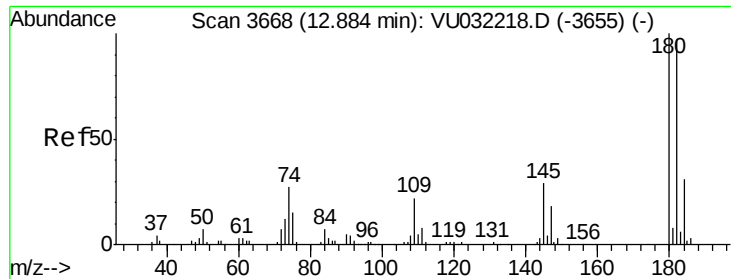


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

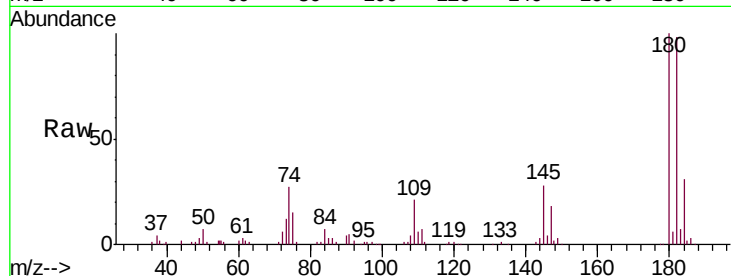




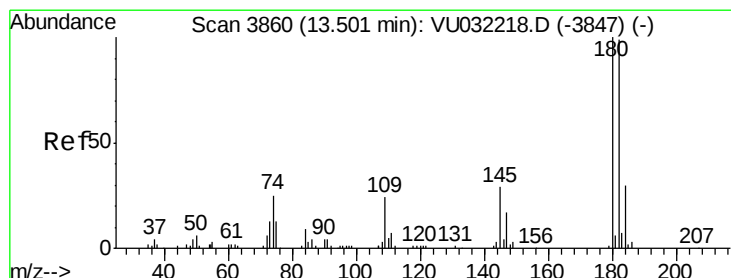
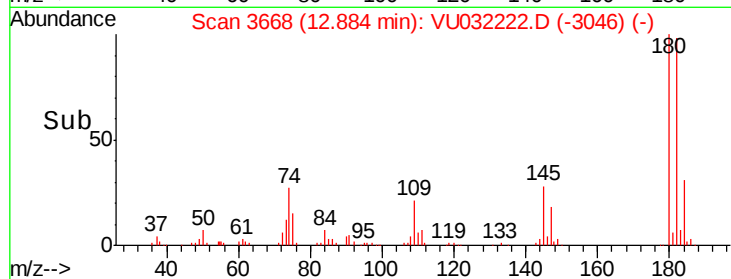
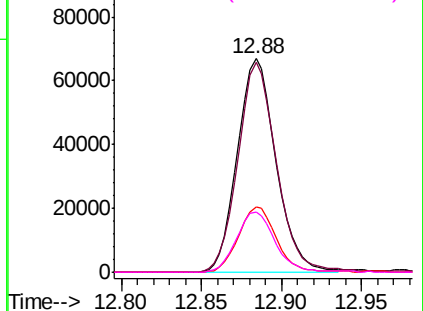
#67
 1,3,5-Trichlorobenzene
 Concen: 5.222 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tgt Ion:	180	Resp:	109719
Ion	Ratio	Lower	Upper
180	100		
182	98.3	76.2	114.4
184	29.9	24.3	36.5
145	28.3	23.6	35.4

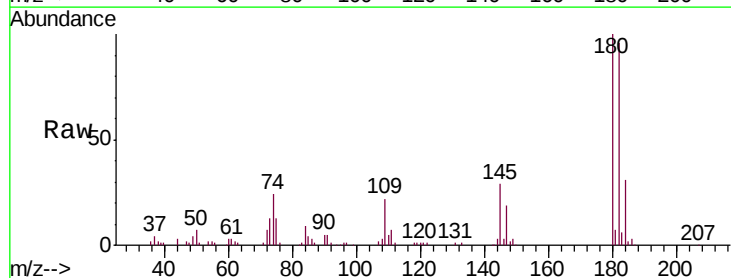


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

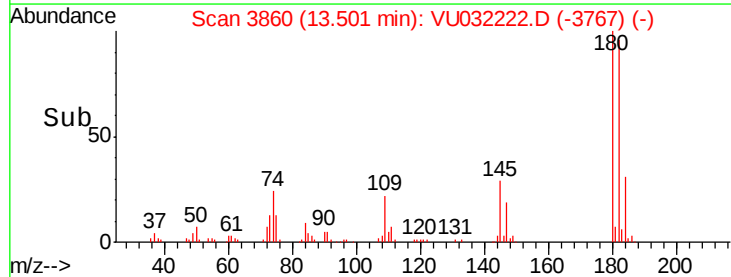
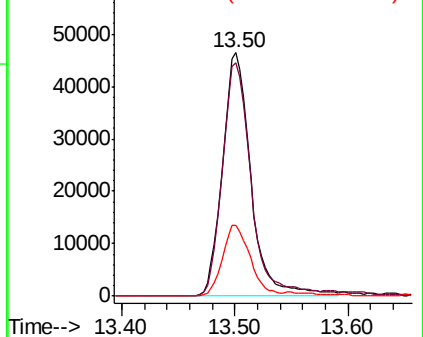


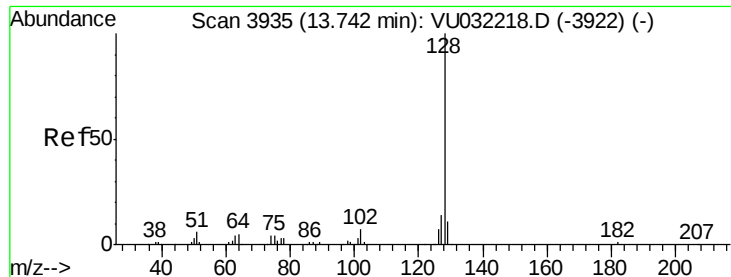
#68
 1,2,4-trichlorobenzene
 Concen: 5.517 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU032222.D
 Acq: 22 May 2019 15:01

Tgt Ion:	180	Resp:	81718
Ion	Ratio	Lower	Upper
180	100		
182	96.8	75.9	113.9
145	28.3	21.7	32.5



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.135 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

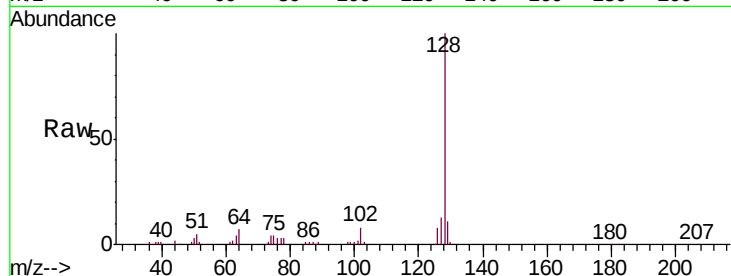
Tgt Ion:128 Resp: 116365

Ion Ratio Lower Upper

128 100

129 9.8 9.2 13.8

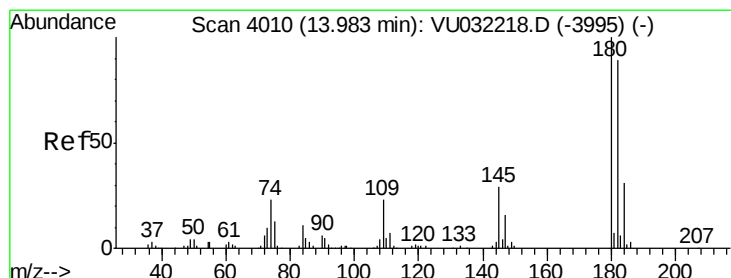
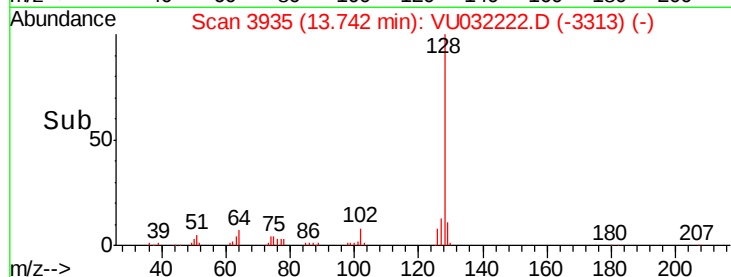
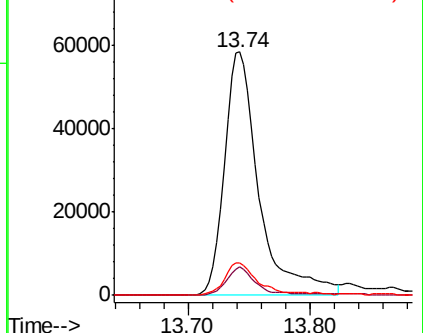
127 12.3 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.319 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032222.D

Acq: 22 May 2019 15:01

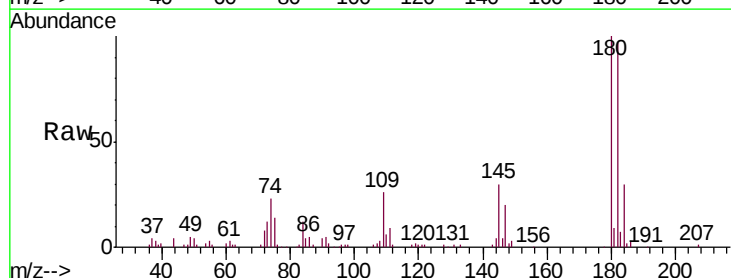
Tgt Ion:180 Resp: 83397

Ion Ratio Lower Upper

180 100

182 96.2 74.6 111.8

145 28.2 23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

