

Data File : VU032188.D
Acq On : 21 May 2019 10:31
Operator : JC/SP
Sample : VSTD10054
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

Quant Time: May 22 01:39:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	826931	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	827262	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	435813	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	526020	76.12	ug/L	0.00
7) Chloroethane-d5	1.66	69	444840	79.07	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	981135	78.56	ug/L	0.00
21) 2-Butanone-d5	4.17	46	709069	150.20	ug/L	0.00
24) Chloroform-d	4.64	84	1026609	86.73	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	605254	81.68	ug/L	0.00
32) Benzene-d6	5.33	84	2140190	91.33	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	622769	82.00	ug/L	0.00
41) Toluene-d8	7.56	98	2067753	97.51	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	316196	93.08	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	642709	204.77	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1026316	90.31	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	873710	96.04	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	625976	83.957	ug/L	99
3) Chloromethane	1.32	50	544072	67.804	ug/L	99
5) Vinyl chloride	1.40	62	622104	73.227	ug/L	99
6) Bromomethane	1.60	94	399665	85.891	ug/L	98
8) Chloroethane	1.68	64	372283	73.836	ug/L	99
9) Trichlorofluoromethane	1.87	101	862020	86.585	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	514595	84.748	ug/L	99
12) 1,1-Dichloroethene	2.28	96	524019	87.072	ug/L	93
13) Acetone	2.32	43	608171	124.432	ug/L	99
14) Carbon disulfide	2.47	76	1507511	78.874	ug/L	100
15) Methyl Acetate	2.61	43	472247	64.174	ug/L	99
16) Methylene chloride	2.69	84	589062	81.185	ug/L	99
17) trans-1,2-Dichloroethene	2.97	96	552564	88.263	ug/L	96
18) Methyl tert-butyl Ether	2.99	73	1625396	85.675	ug/L	99
19) 1,1-Dichloroethane	3.44	63	918418	76.691	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	625005	90.612	ug/L	96
22) 2-Butanone	4.26	43	777015	139.617	ug/L	97
23) Bromochloromethane	4.54	128	329605	95.423	ug/L	98
25) Chloroform	4.67	83	1014165	84.031	ug/L	100
27) 1,2-Dichloroethane	5.40	62	754364	81.722	ug/L	98
29) Cyclohexane	4.99	56	792409	82.062	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	851902	89.734	ug/L	99
31) Carbon tetrachloride	5.13	117	750014	93.592	ug/L	98
33) Benzene	5.38	78	2261895	85.787	ug/L	100
34) Trichloroethene	6.18	95	602435	90.827	ug/L	99
35) Methylcyclohexane	6.41	83	959626	95.007	ug/L	98
37) 1,2-Dichloropropane	6.43	63	548407	78.663	ug/L	100
38) Bromodichloromethane	6.75	83	761961	87.144	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	925194	92.201	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1363057	148.177	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	2605789	95.206	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	812956	91.989	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	596709	90.257	ug/L	97
46) Tetrachloroethene	8.22	164	505713	104.554	ug/L	96
48) 2-Hexanone	8.36	43	1158381	154.840	ug/L	99
49) Dibromochloromethane	8.47	129	657691	97.816	ug/L	98
50) 1,2-Dibromoethane	8.58	107	655062	93.533	ug/L	100
51) Chlorobenzene	9.11	112	1670207	94.846	ug/L	99
52) Ethylbenzene	9.24	91	2838568	96.738	ug/L	99
53) m,p-Xylene	9.37	106	1117645	103.331	ug/L	98
54) o-xylene	9.77	106	1131933	105.480	ug/L	98
55) Styrene	9.79	104	1962261	106.742	ug/L	99
56) Isopropylbenzene	10.16	105	2872060	104.638	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	1022494	86.961	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	788975	85.608	ug/L	100
61) Bromoform	9.95	173	535113	92.067	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	1363838	95.725	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	1406849	93.772	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	1405038	93.157	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	226337	80.581	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	1053202	101.895	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	912344	114.750	ug/L	100
69) Naphthalene	13.74	128	2985380	115.195	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	971661	112.077	ug/L	98

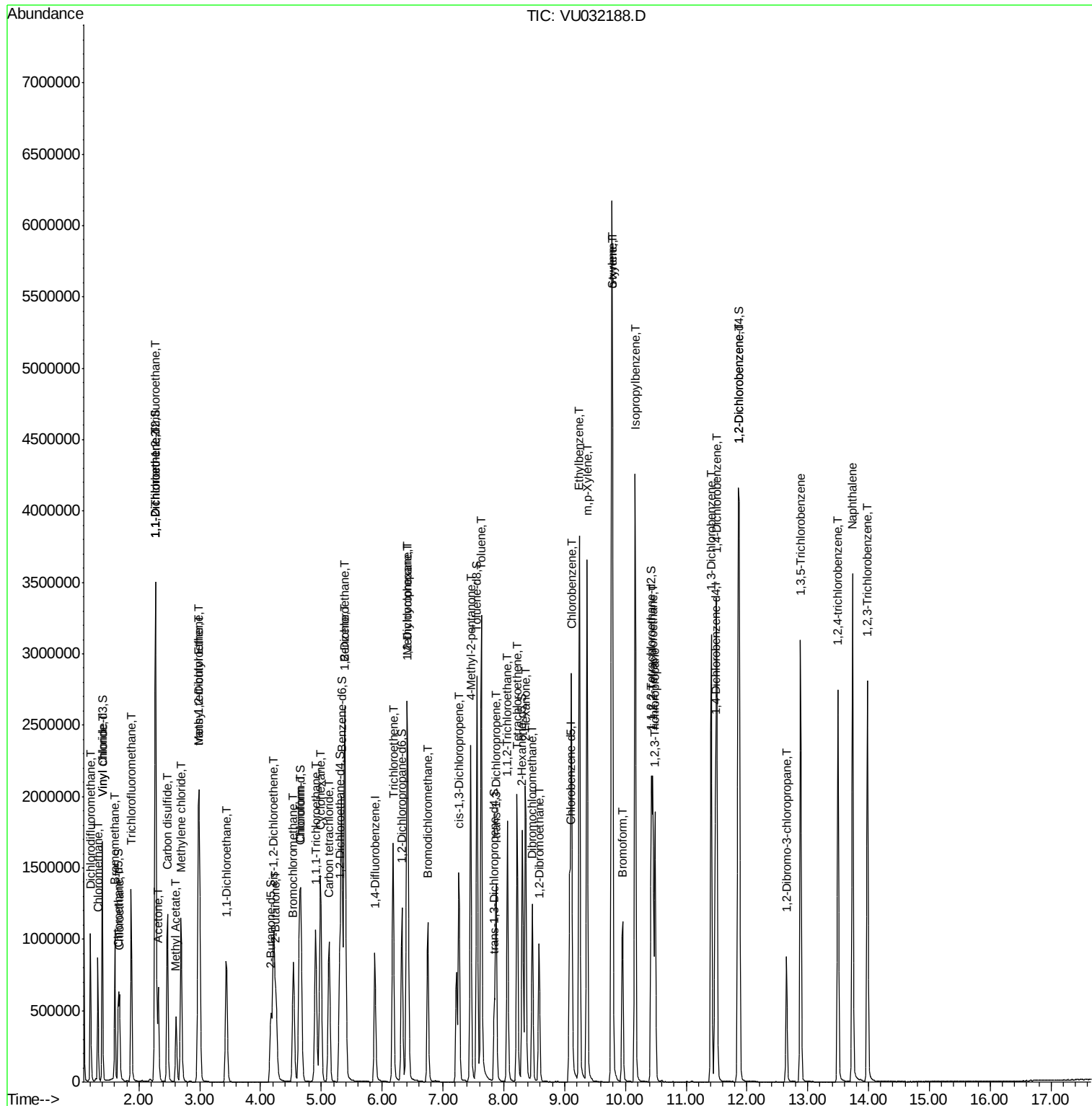
(#) = qualifier out of range (m) = manual integration (+) = signals summed

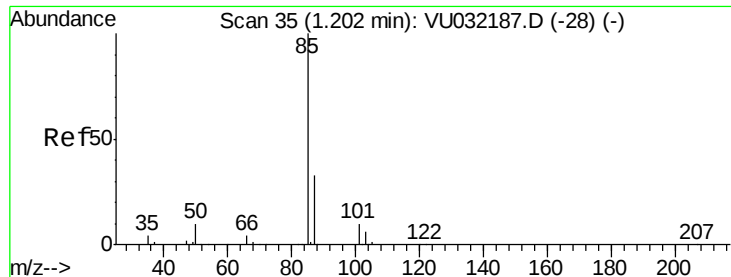
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#2

Dichlorodifluoromethane

Concen: 83.957 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

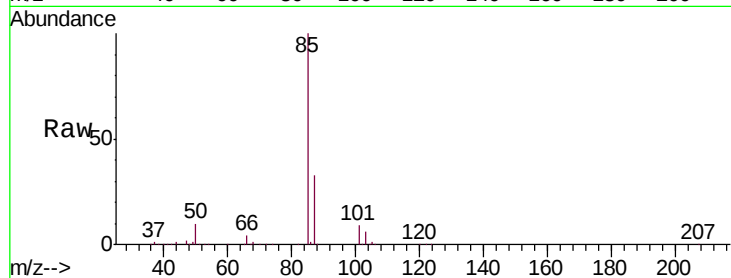
VSTD10054

Tgt Ion: 85 Resp: 625976

Ion Ratio Lower Upper

85 100

87 32.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU032188.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032188.D (-1) (-)

1.20

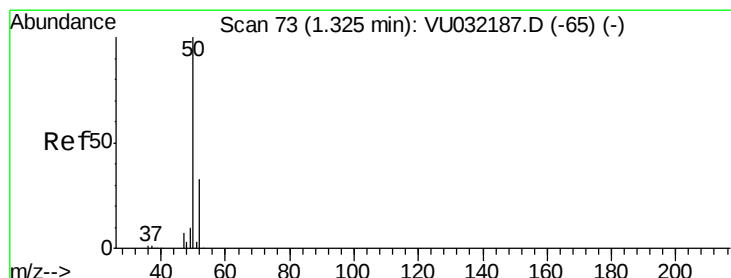
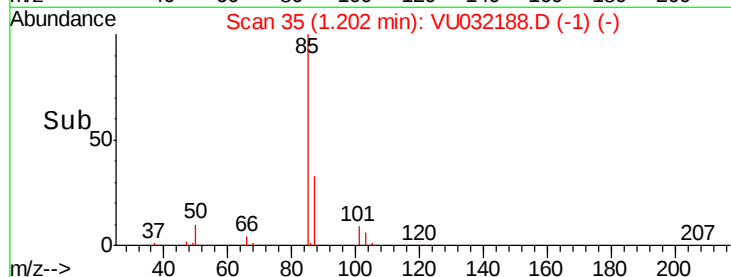
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 67.804 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032188.D

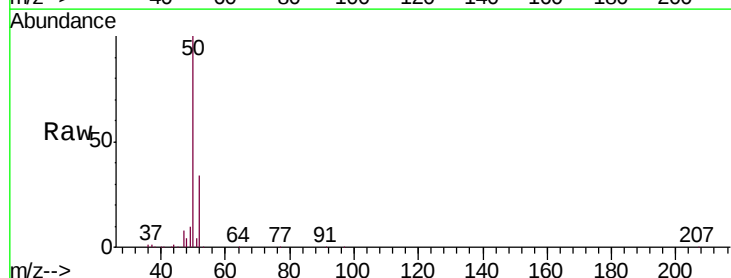
Acq: 21 May 2019 10:31

Tgt Ion: 50 Resp: 544072

Ion Ratio Lower Upper

50 100

52 33.6 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU032188.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU032188.D (-1) (-)

1.32

600000

500000

400000

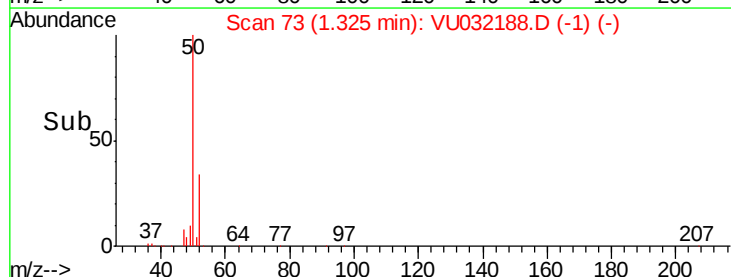
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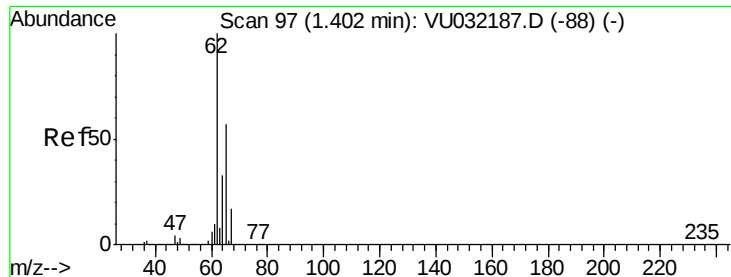
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 73.227 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

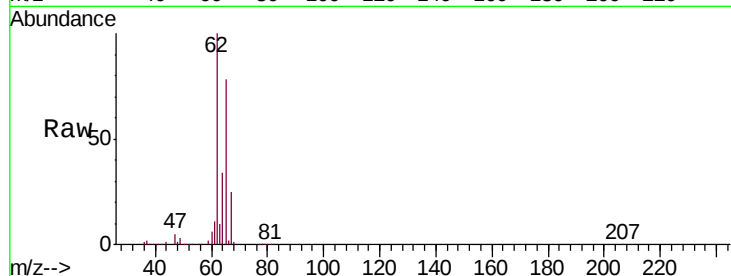
VSTD10054

Tgt Ion: 62 Resp: 622104

Ion Ratio Lower Upper

62 100

64 34.2 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU032188.D (-96) (-)

Ion 64.00 (63.70 to 64.70): VU032188.D (-96) (-)

1.40

600000

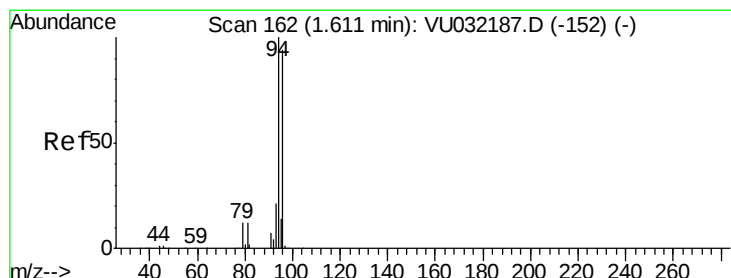
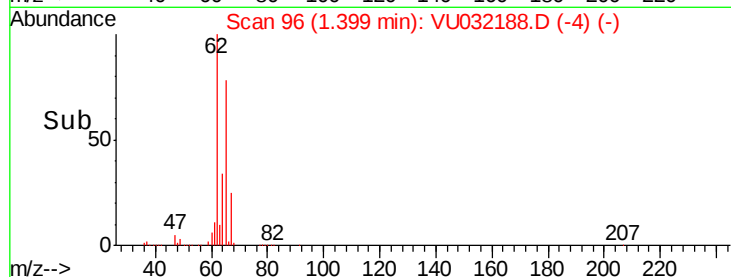
400000

200000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 85.891 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU032188.D

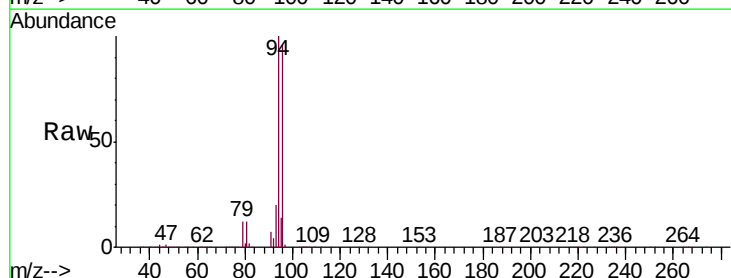
Acq: 21 May 2019 10:31

Tgt Ion: 94 Resp: 399665

Ion Ratio Lower Upper

94 100

96 95.9 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU032188.D (-160) (-)

Ion 96.00 (95.70 to 96.70): VU032188.D (-160) (-)

1.60

400000

300000

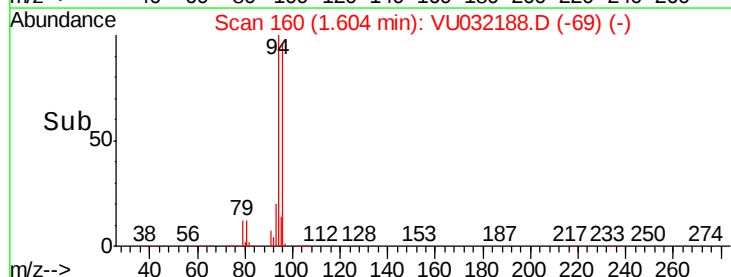
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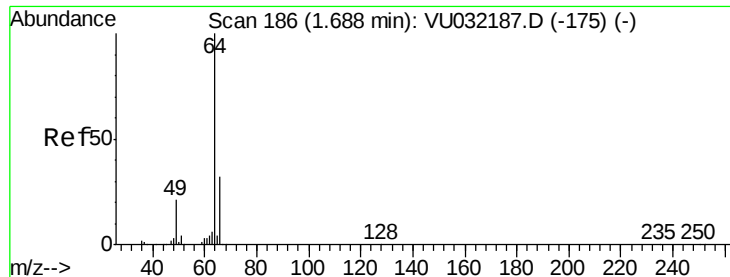
100000

0

1.55 1.60 1.65

Time-->





#8

Chloroethane

Concen: 73.836 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

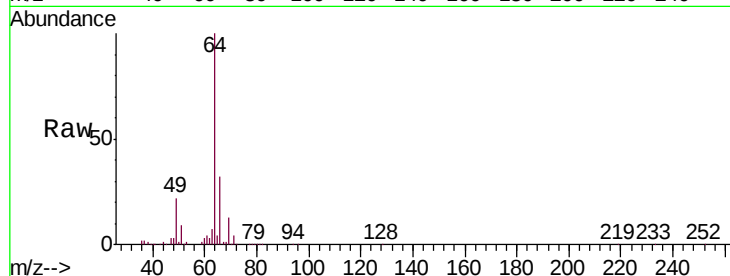
VSTD10054

Tgt Ion: 64 Resp: 372283

Ion Ratio Lower Upper

64 100

66 32.2 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU032188.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU032188.D (-175) (-)

1.68

300000

250000

200000

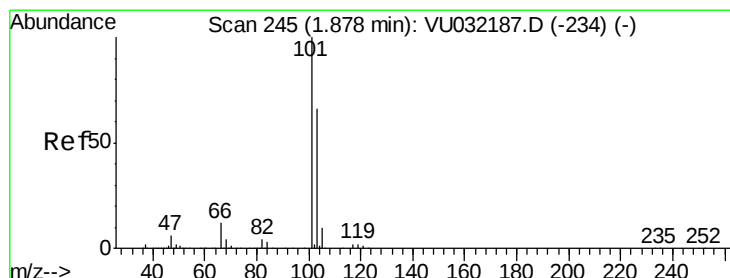
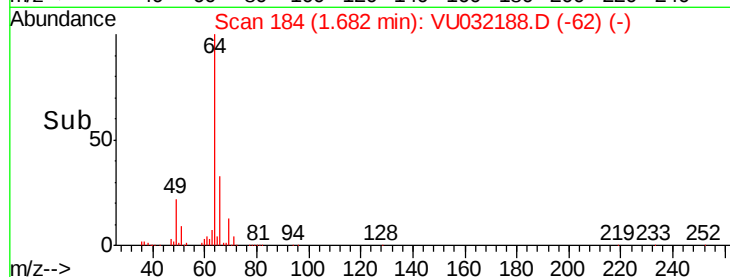
150000

100000

50000

0

Time--> 1.60 1.65 1.70 1.75 1.80



#9

Trichlorofluoromethane

Concen: 86.585 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU032188.D

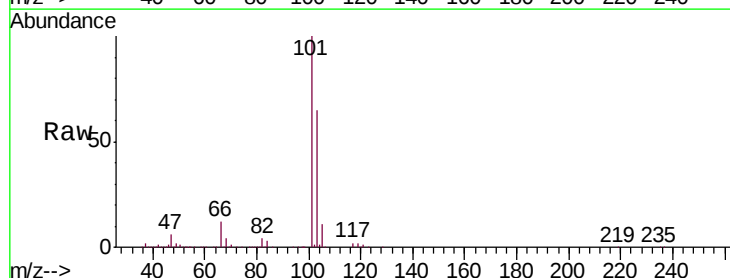
Acq: 21 May 2019 10:31

Tgt Ion: 101 Resp: 862020

Ion Ratio Lower Upper

101 100

103 64.8 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU032188.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032188.D (-234) (-)

1.87

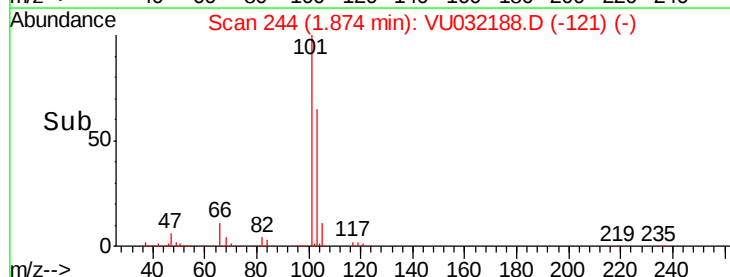
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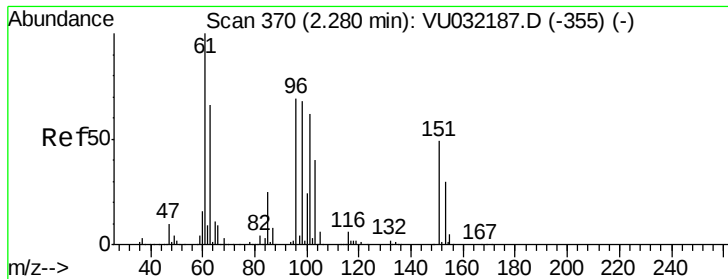
400000

200000

0

Time--> 1.80 1.85 1.90 1.95





#10

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

Concen: 84.748 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD10054

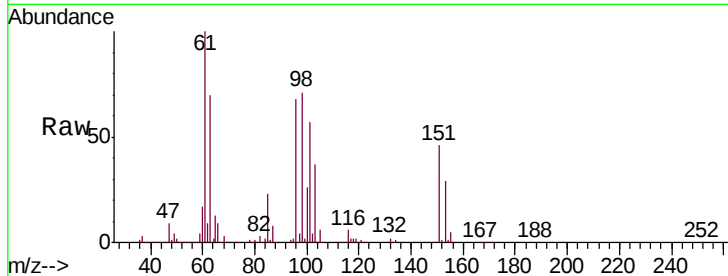
Tgt Ion:101 Resp: 514595

Ion Ratio Lower Upper

101 100

85 41.2 32.5 48.7

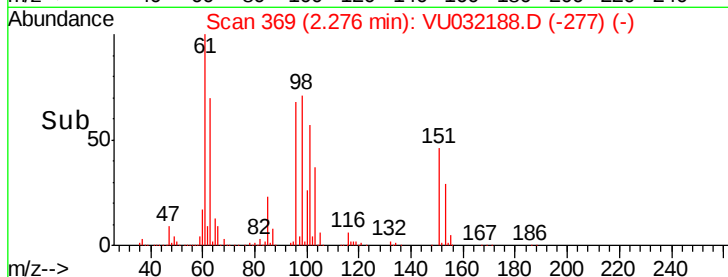
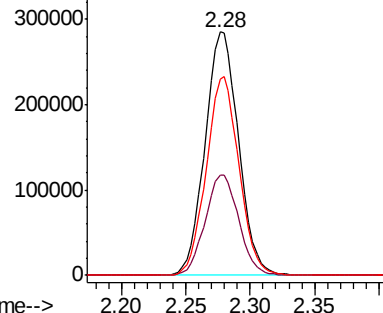
151 79.8 63.1 94.7



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: 87.072 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

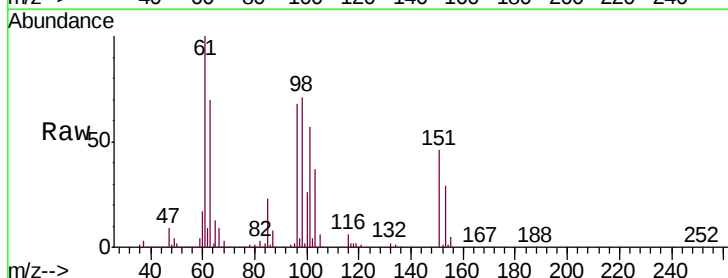
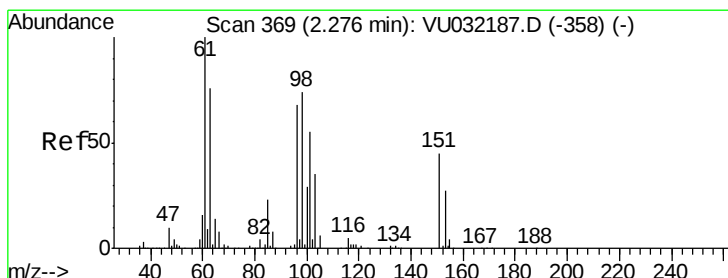
Tgt Ion: 96 Resp: 524019

Ion Ratio Lower Upper

96 100

61 146.9 103.7 192.7

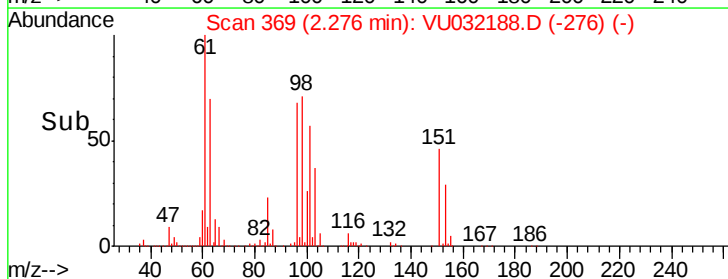
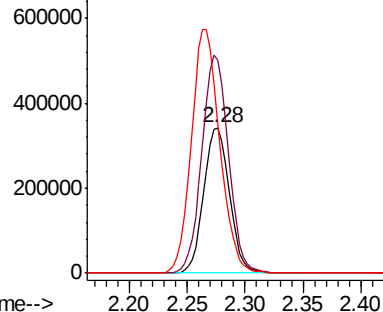
63 102.6 83.3 154.7

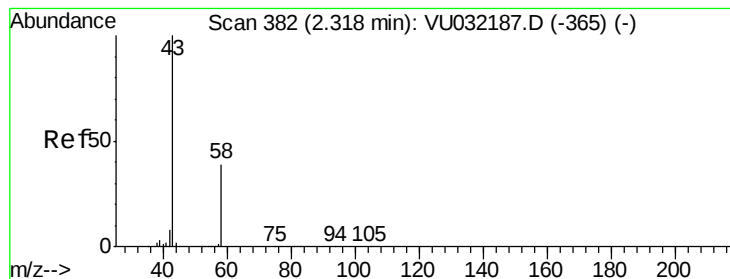


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 124.432 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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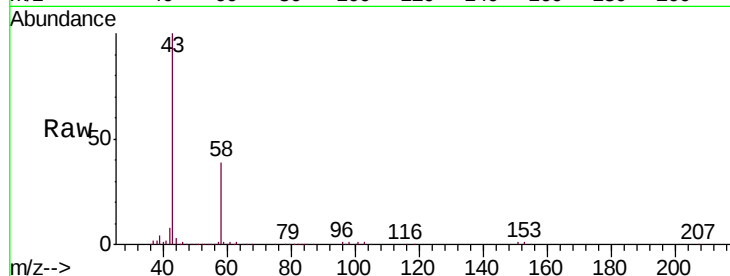
VSTD10054

Tgt Ion: 43 Resp: 608171

Ion Ratio Lower Upper

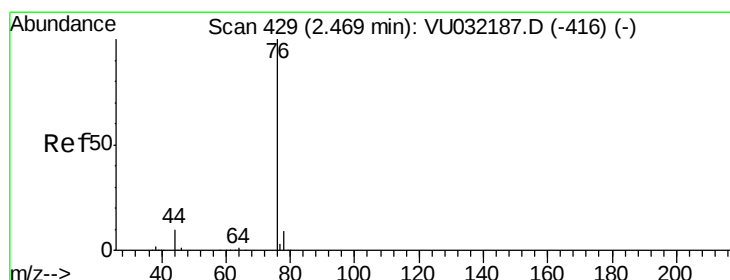
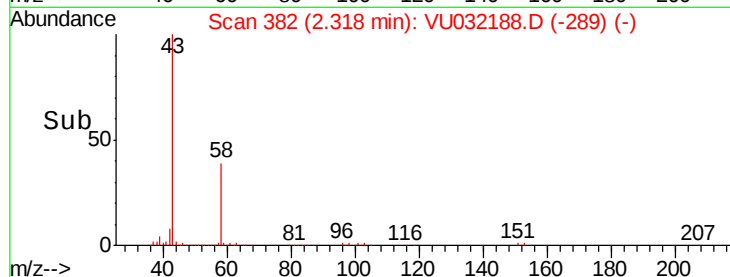
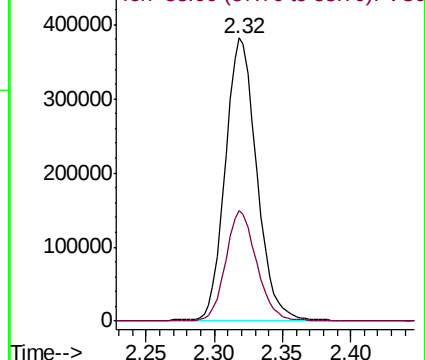
43 100

58 38.8 0.0 76.8



Abundance Ion 43.00 (42.70 to 43.70): VU032188.D (-365) (-)

Ion 58.00 (57.70 to 58.70): VU032188.D (-365) (-)



#14

Carbon disulfide

Concen: 78.874 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032188.D

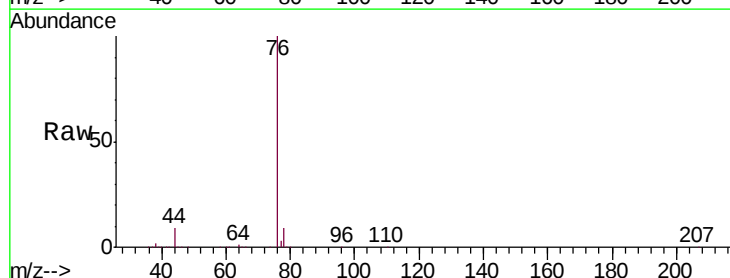
Acq: 21 May 2019 10:31

Tgt Ion: 76 Resp: 1507511

Ion Ratio Lower Upper

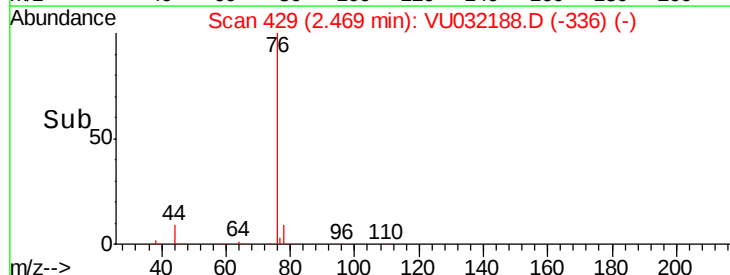
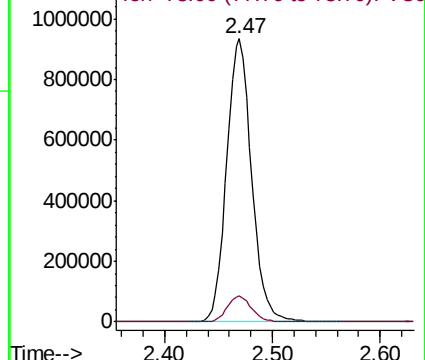
76 100

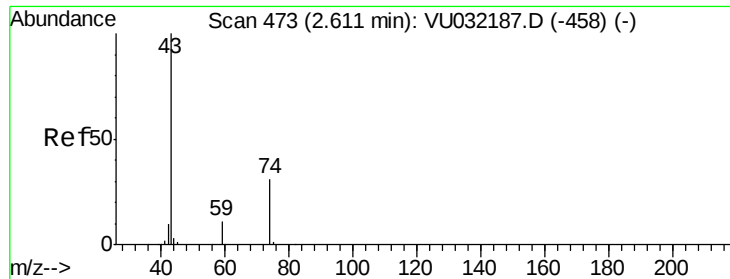
78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU032188.D (-336) (-)

Ion 78.00 (77.70 to 78.70): VU032188.D (-336) (-)

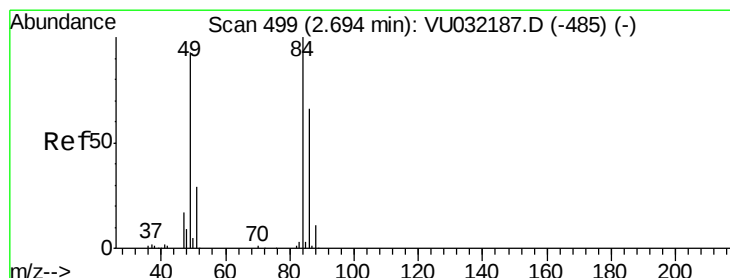
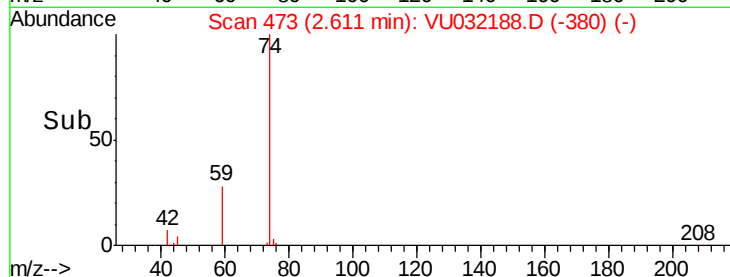
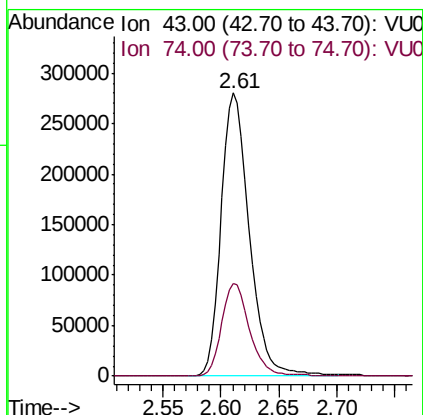
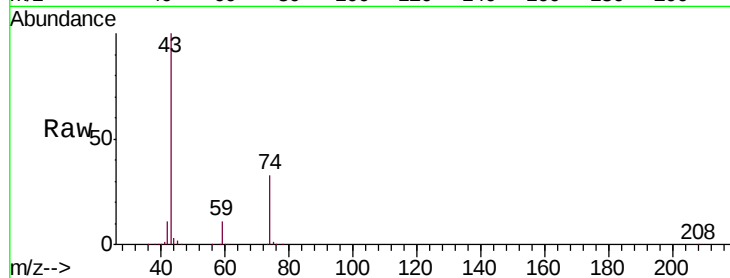




#15
Methyl Acetate
Concen: 64.174 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

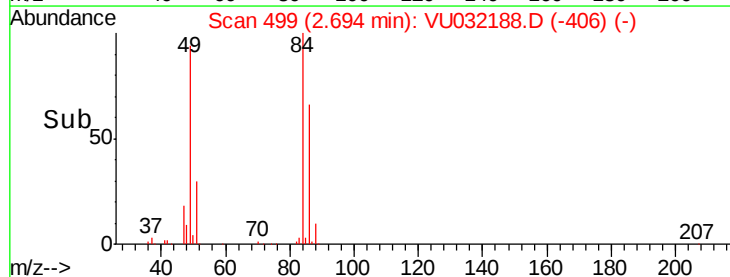
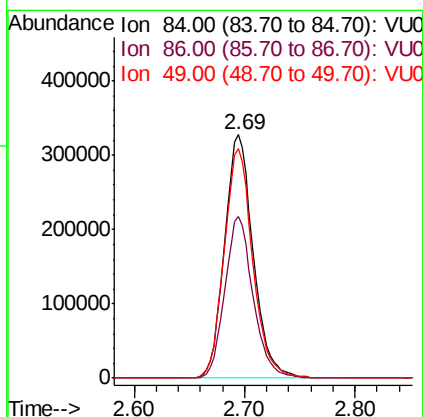
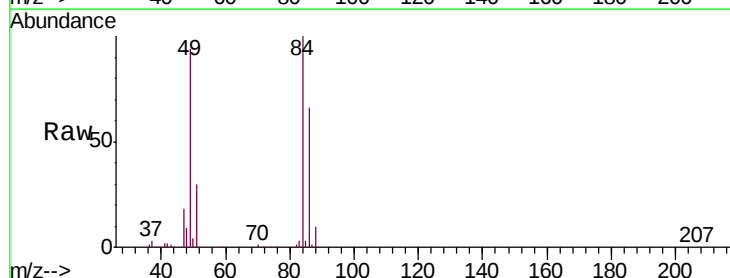
Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

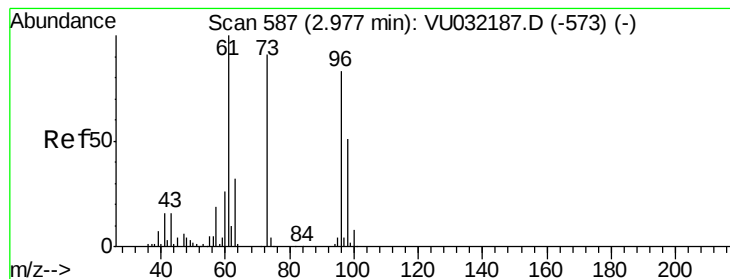
Tgt Ion: 43 Resp: 472247
Ion Ratio Lower Upper
43 100
74 32.3 25.4 38.0



#16
Methylene chloride
Concen: 81.185 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

Tgt Ion: 84 Resp: 589062
Ion Ratio Lower Upper
84 100
86 66.2 46.0 85.4
49 94.1 64.8 120.4





#17

trans-1,2-Dichloroethene

Concen: 88.263 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD10054

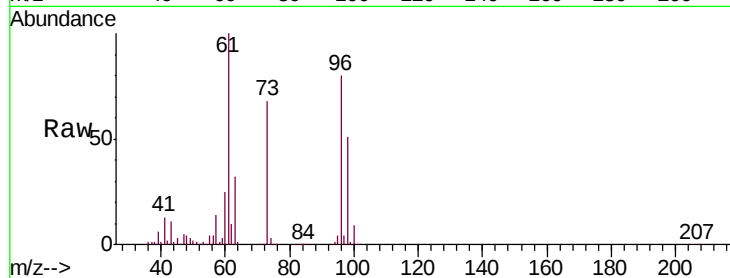
Tgt Ion: 96 Resp: 552564

Ion Ratio Lower Upper

96 100

61 124.5 83.9 155.9

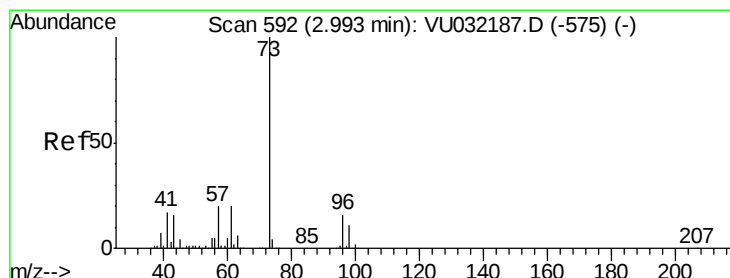
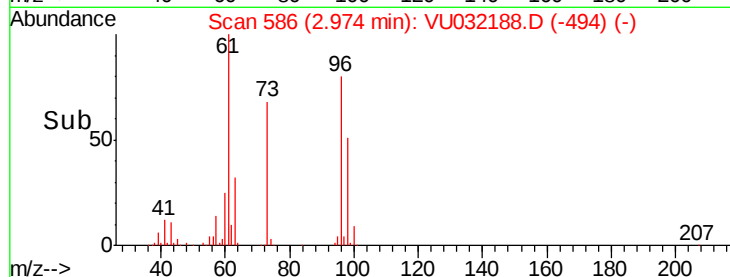
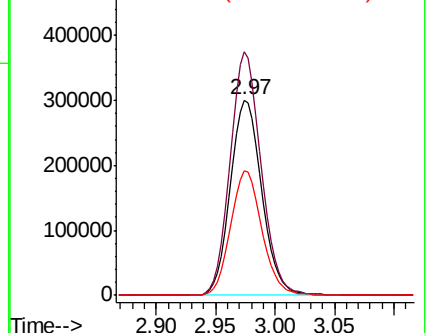
98 63.5 42.4 78.8



Abundance Ion 96.00 (95.70 to 96.70): VU032188.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032188.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032188.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 85.675 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

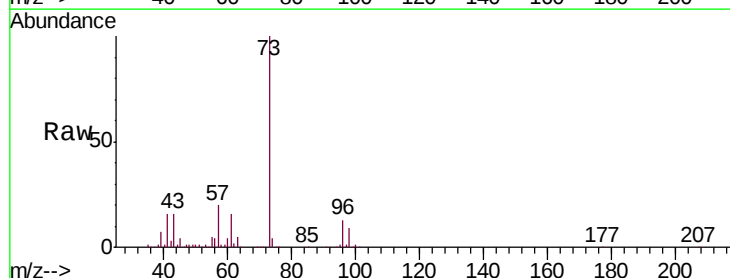
Tgt Ion: 73 Resp: 1625396

Ion Ratio Lower Upper

73 100

43 15.7 13.0 19.6

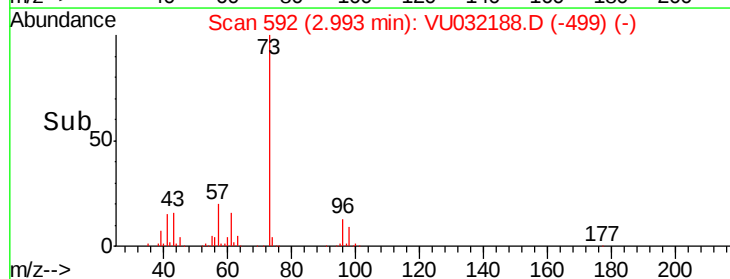
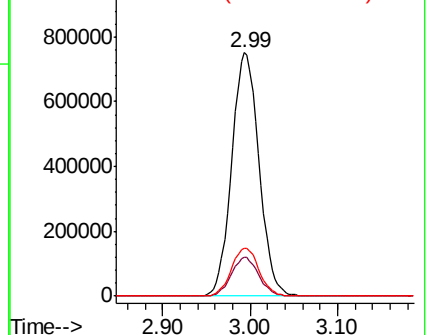
57 20.0 16.1 24.1

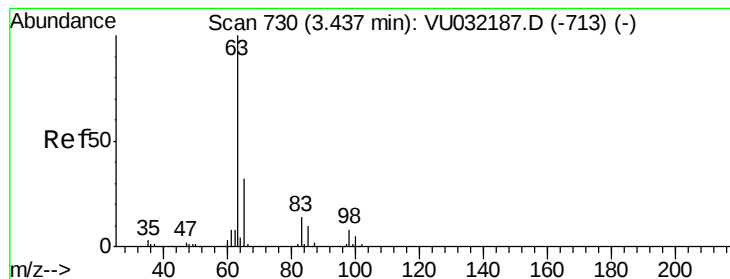


Abundance Ion 73.00 (72.70 to 73.70): VU032188.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU032188.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU032188.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 76.691 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampled :

VSTD10054

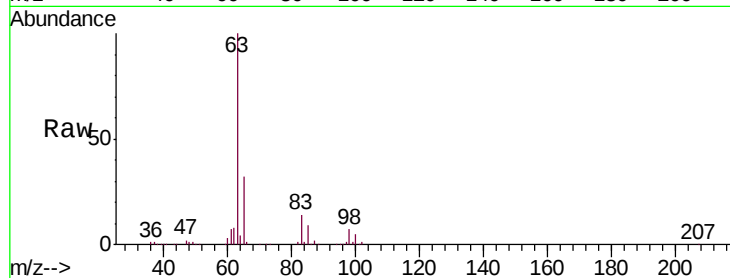
Tgt Ion: 63 Resp: 918418

Ion Ratio Lower Upper

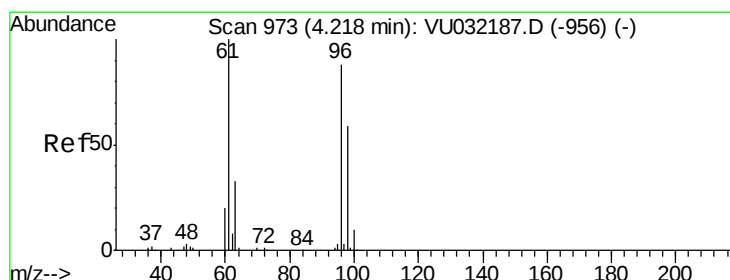
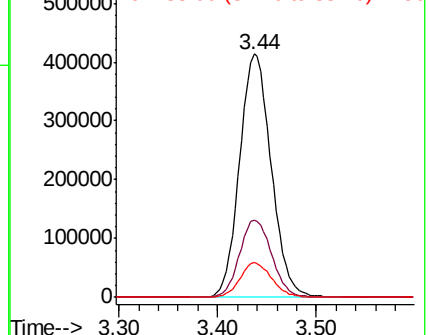
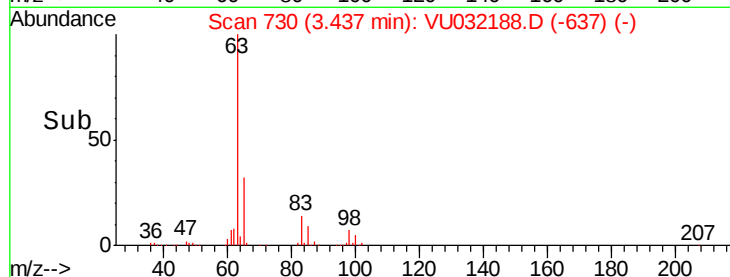
63 100

65 31.8 22.4 41.6

83 14.1 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU032188.D (-637) (-)



#20

cis-1,2-Dichloroethene

Concen: 90.612 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

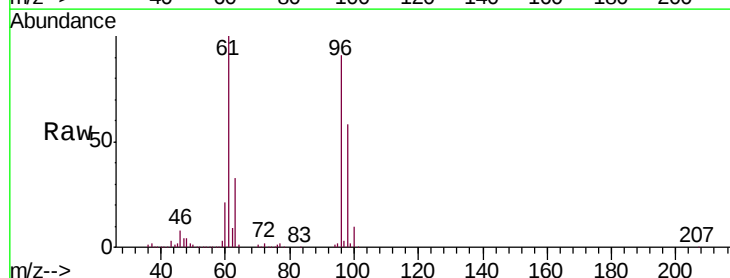
Tgt Ion: 96 Resp: 625005

Ion Ratio Lower Upper

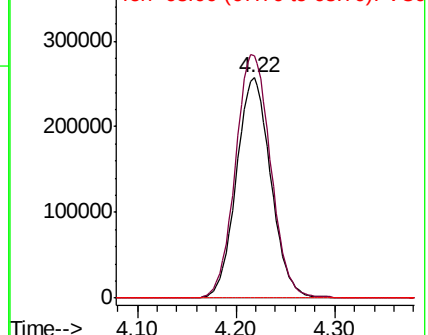
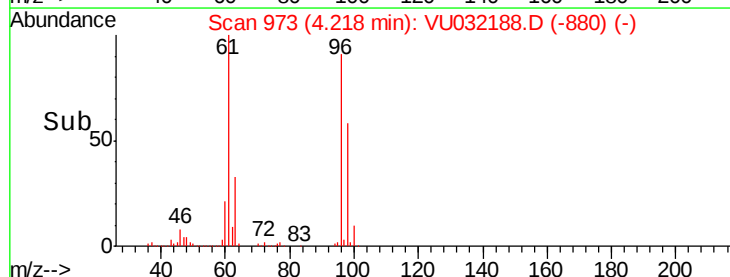
96 100

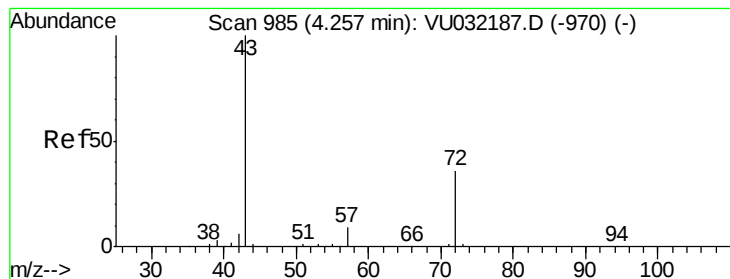
61 109.9 79.9 148.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU032188.D (-880) (-)





#22

2-Butanone

Concen: 139.617 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

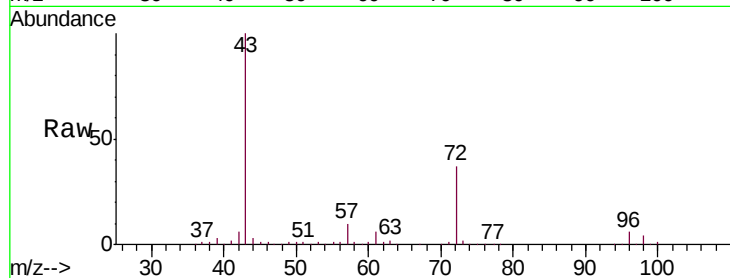
VSTD10054

Tgt Ion: 43 Resp: 777015

Ion Ratio Lower Upper

43 100

72 37.2 17.8 53.3



Abundance Ion 43.00 (42.70 to 43.70): VU032188.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VU032188.D (-892) (-)

4.26

300000

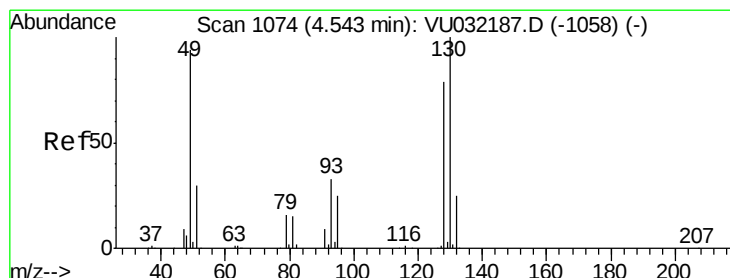
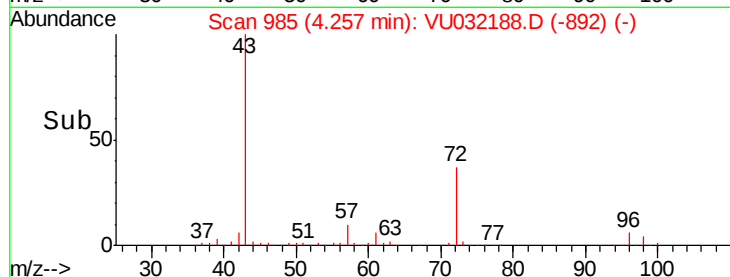
200000

100000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 95.423 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Tgt Ion: 128 Resp: 329605

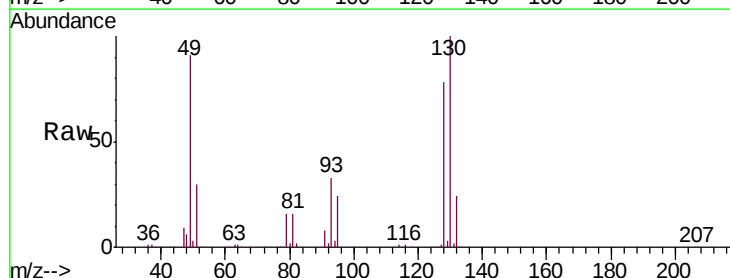
Ion Ratio Lower Upper

128 100

49 116.2 83.5 155.1

130 128.2 89.2 165.6

51 38.3 30.9 46.3



Abundance Ion 128.00 (127.70 to 128.70): VU032188.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU032188.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU032188.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU032188.D (-981) (-)

4.54

250000

200000

150000

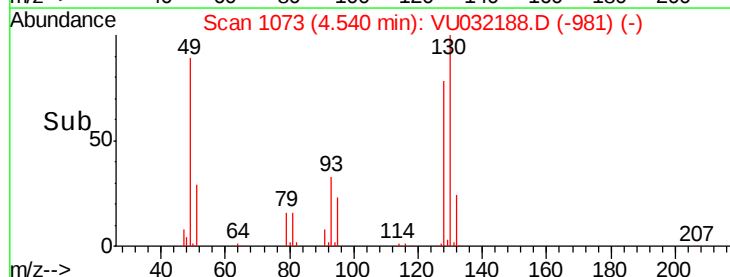
100000

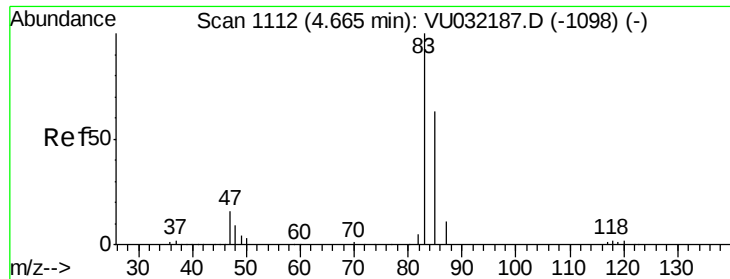
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->

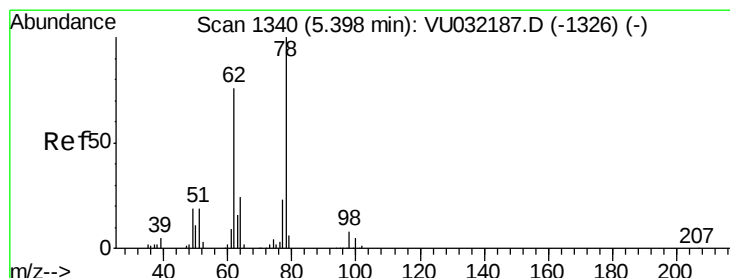
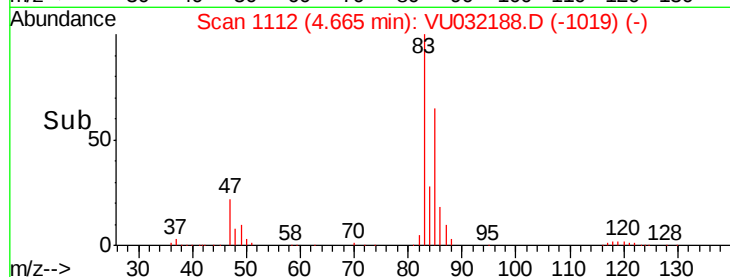
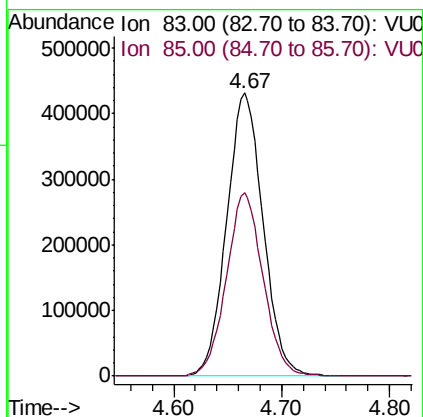
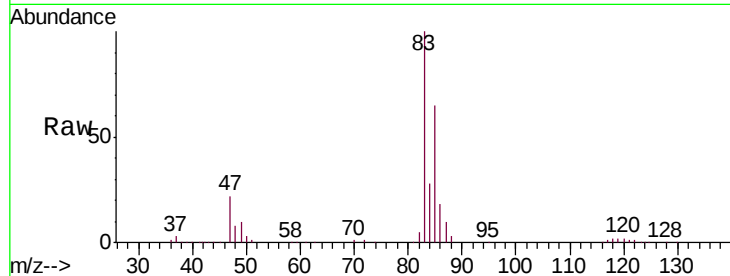




#25
Chloroform
Concen: 84.031 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

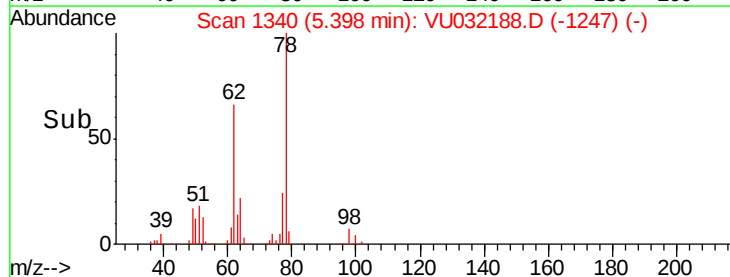
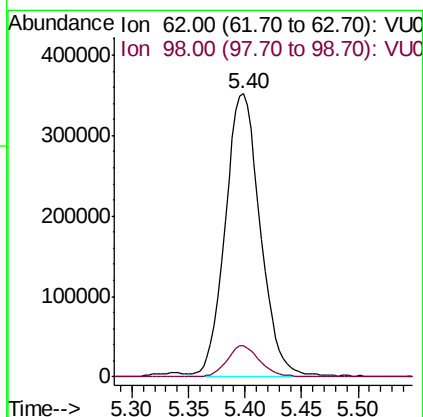
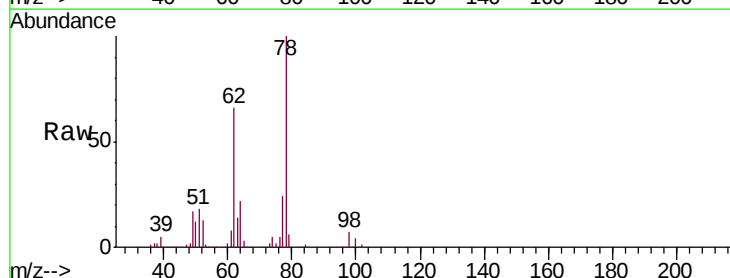
Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

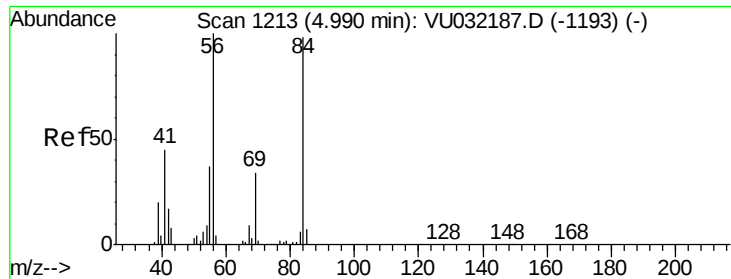
Tgt Ion: 83 Resp: 1014165
Ion Ratio Lower Upper
83 100
85 64.8 45.3 84.1



#27
1,2-Dichloroethane
Concen: 81.722 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

Tgt Ion: 62 Resp: 754364
Ion Ratio Lower Upper
62 100
98 11.0 8.2 12.2

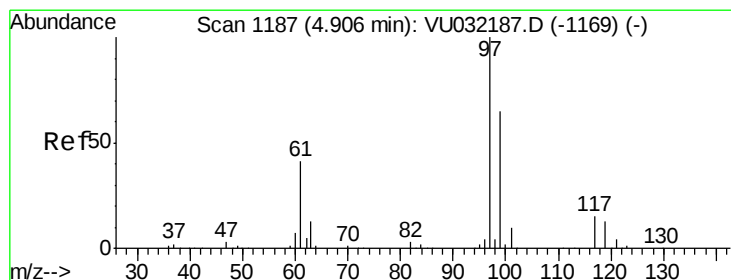
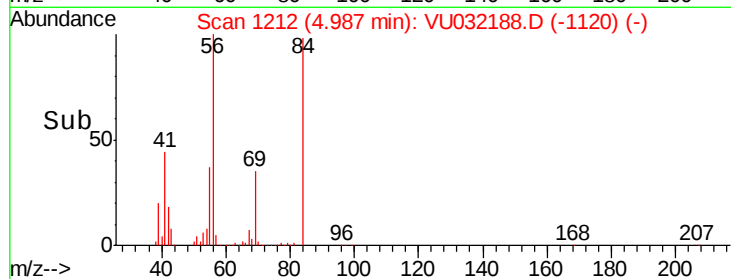
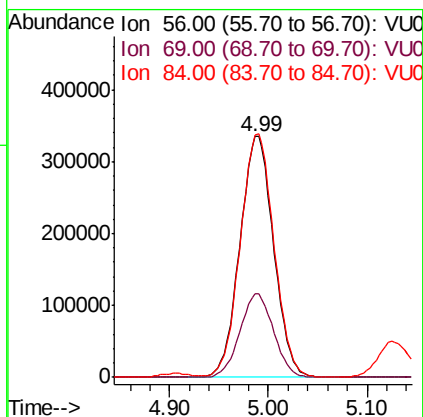
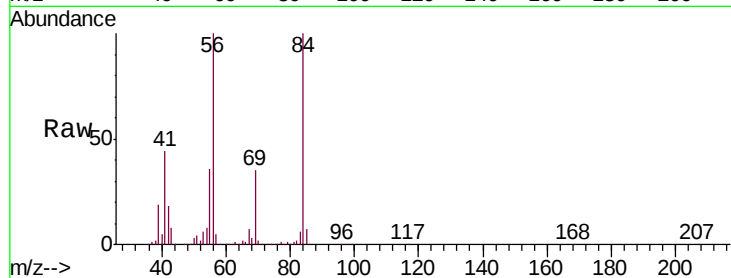




#29
Cyclohexane
Concen: 82.062 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. -0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

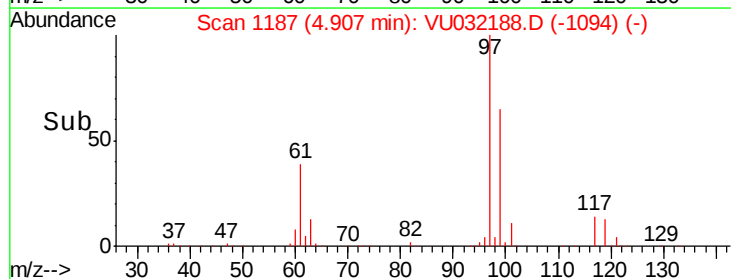
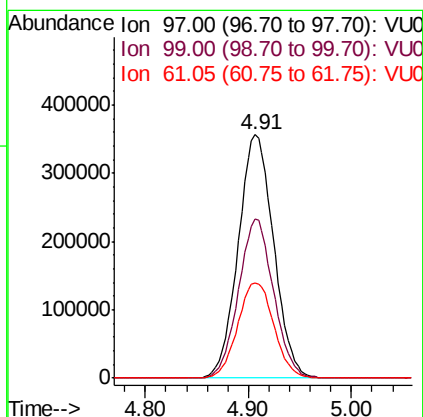
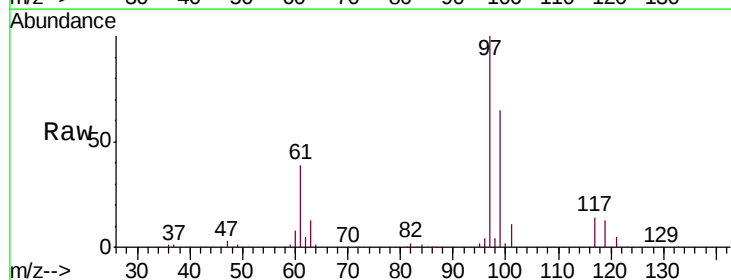
Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

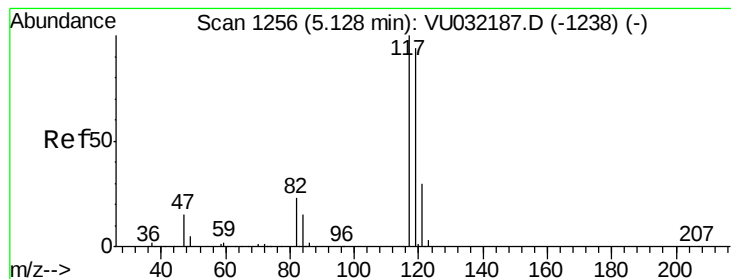
Tgt Ion: 56 Resp: 792409
Ion Ratio Lower Upper
56 100
69 34.5 27.6 41.4
84 100.9 79.3 118.9



#30
1,1,1-Trichloroethane
Concen: 89.734 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

Tgt Ion: 97 Resp: 851902
Ion Ratio Lower Upper
97 100
99 64.5 51.4 77.2
61 40.1 33.4 50.0





#31

Carbon tetrachloride

Concen: 93.592 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

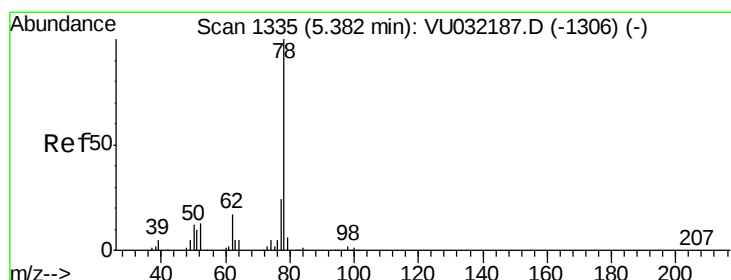
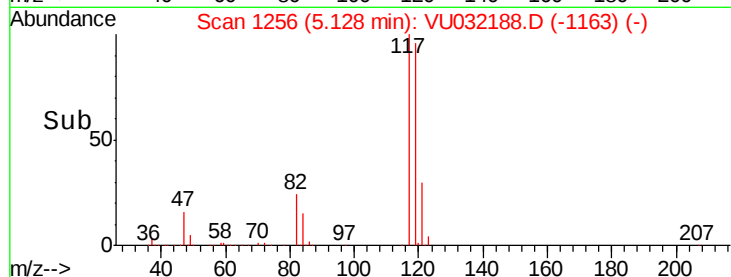
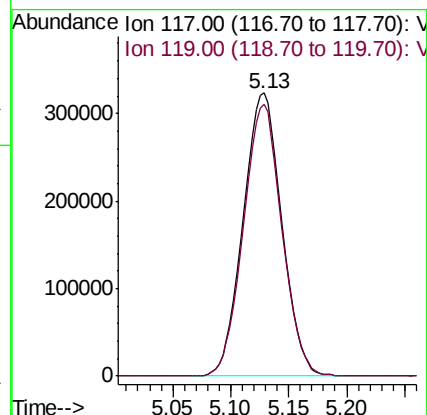
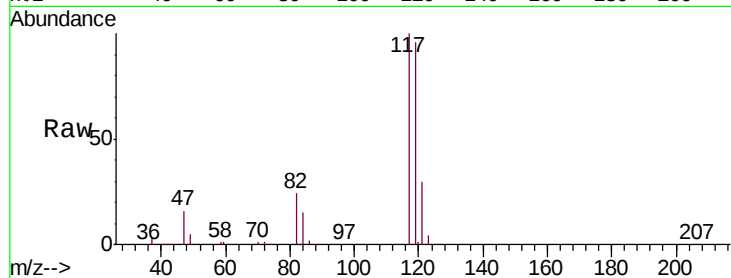
VSTD10054

Tgt Ion:117 Resp: 750014

Ion Ratio Lower Upper

117 100

119 95.8 75.4 113.2



#33

Benzene

Concen: 85.787 ug/L

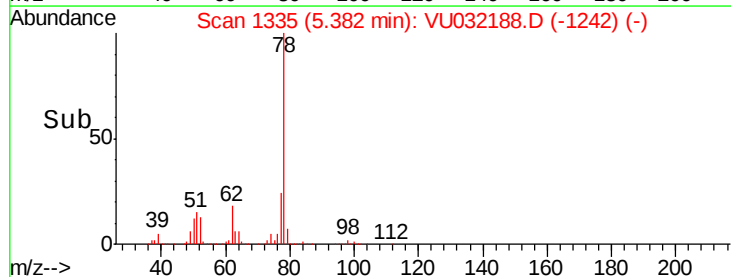
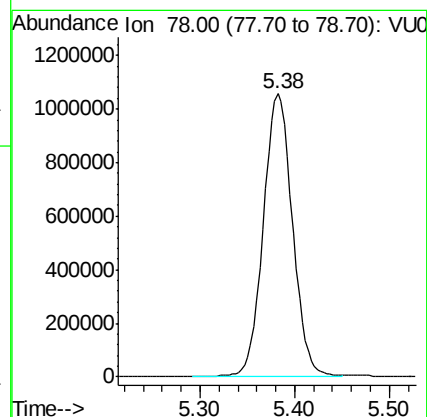
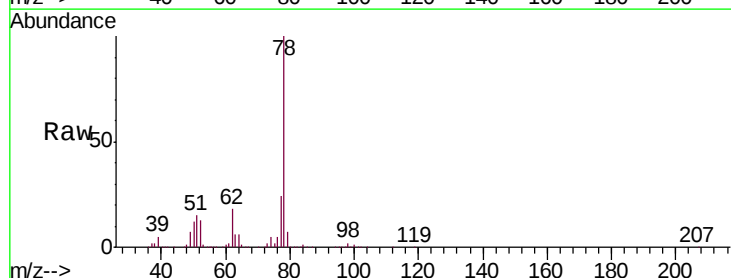
RT: 5.38 min Scan# 1335

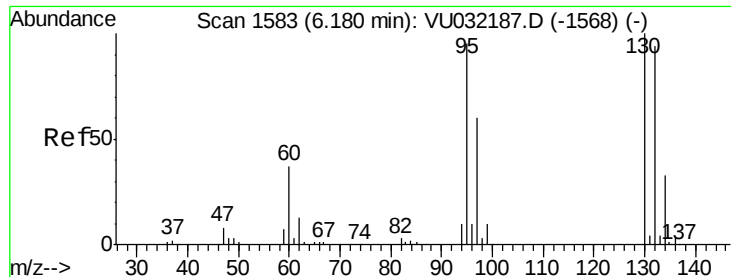
Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Tgt Ion: 78 Resp: 2261895

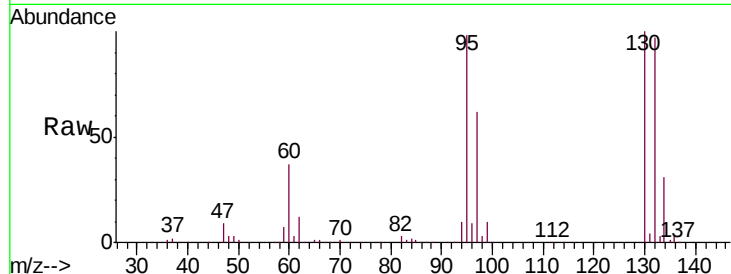




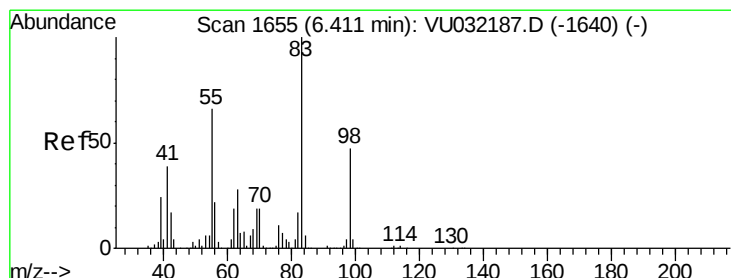
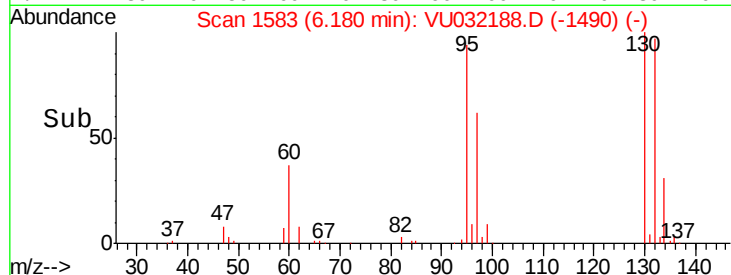
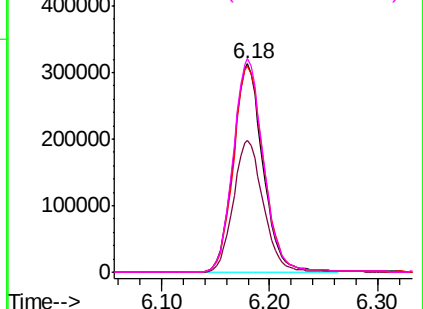
#34
 Trichloroethene
 Concen: 90.827 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD10054

Tgt Ion: 95 Resp: 602435
 Ion Ratio Lower Upper
 95 100
 97 63.5 44.5 82.7
 132 99.2 69.4 129.0
 130 102.5 73.8 137.0

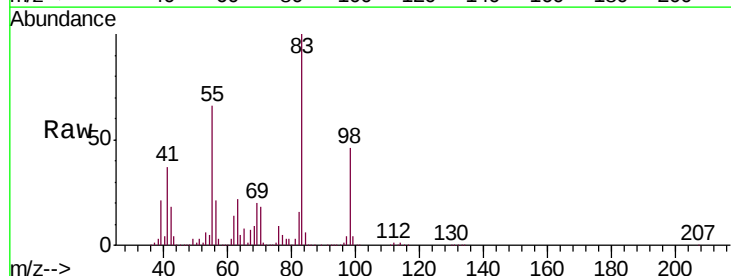


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

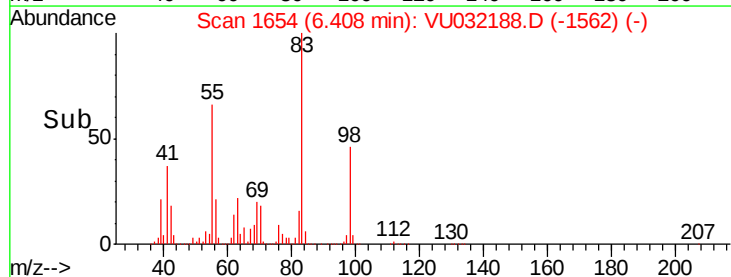
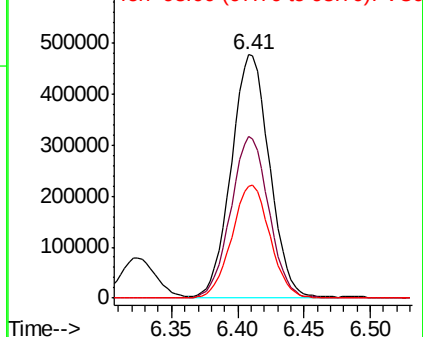


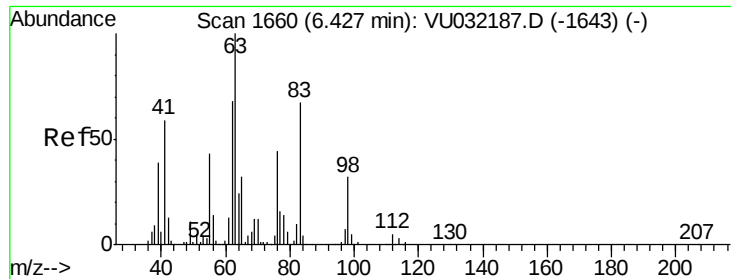
#35
 Methylcyclohexane
 Concen: 95.007 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Tgt Ion: 83 Resp: 959626
 Ion Ratio Lower Upper
 83 100
 55 66.0 53.8 80.8
 98 46.3 38.4 57.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

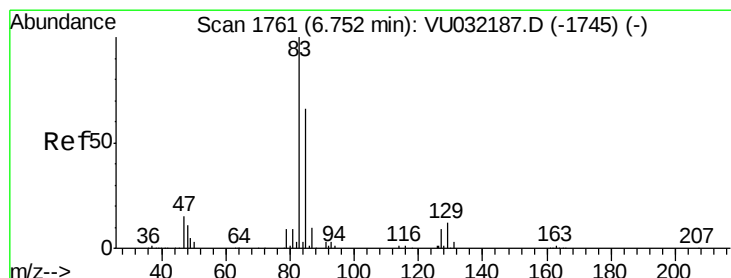
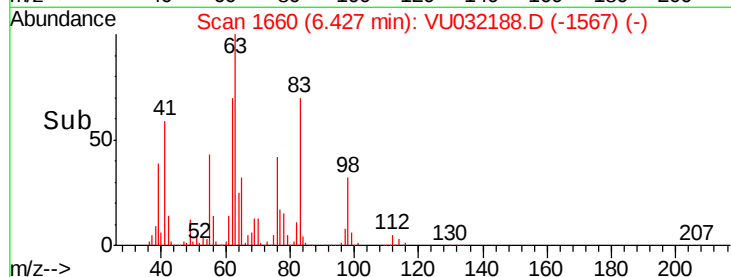
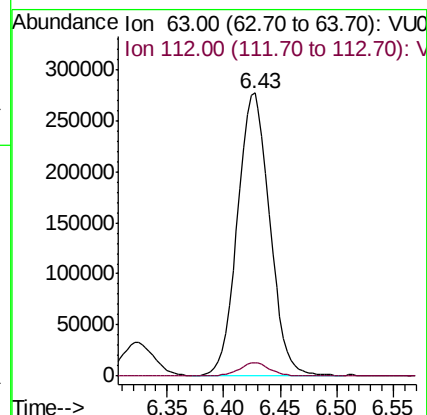
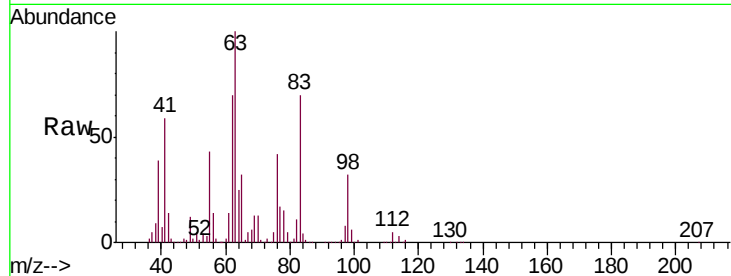




#37
 1,2-Dichloropropane
 Concen: 78.663 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

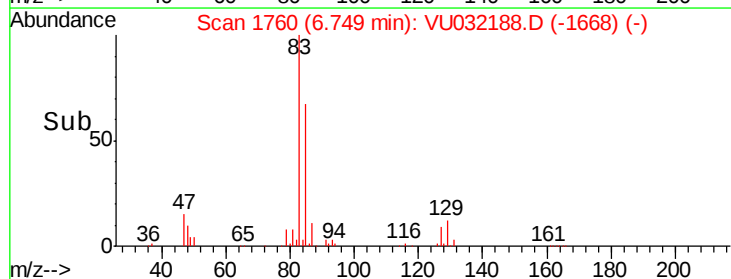
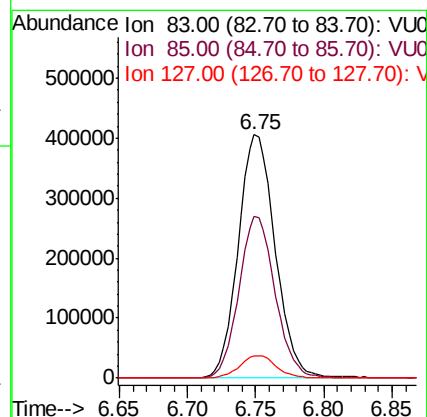
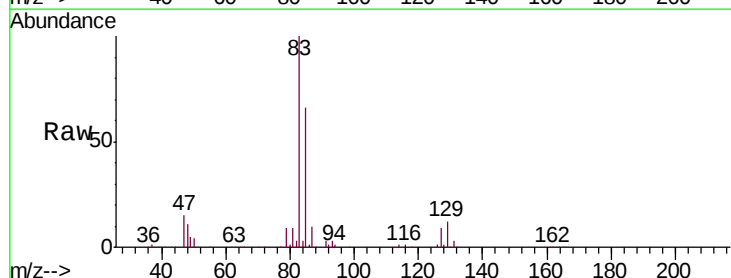
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10054

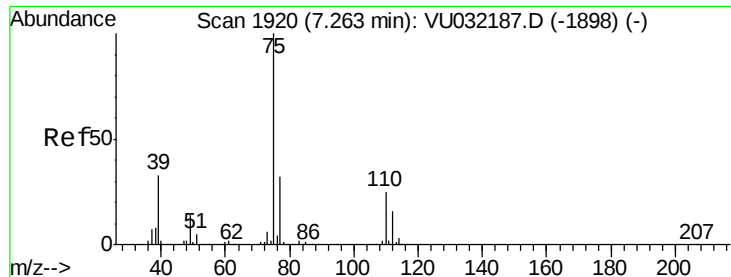
Tgt Ion: 63 Resp: 548407
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.6



#38
 Bromodichloromethane
 Concen: 87.144 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Tgt Ion: 83 Resp: 761961
 Ion Ratio Lower Upper
 83 100
 85 66.4 46.0 85.4
 127 9.1 7.5 11.3

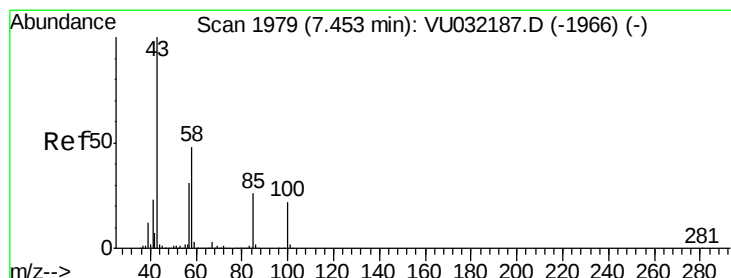
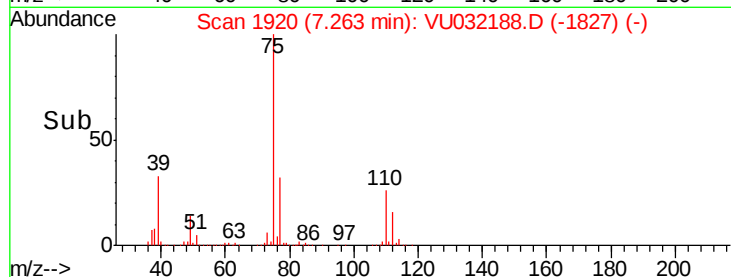
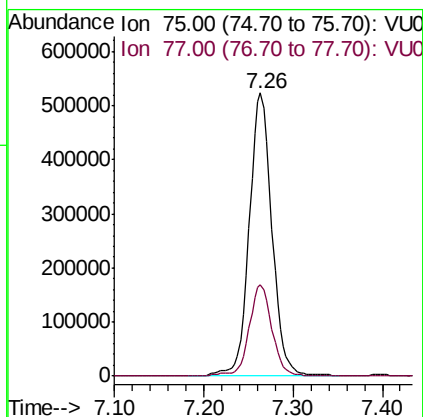
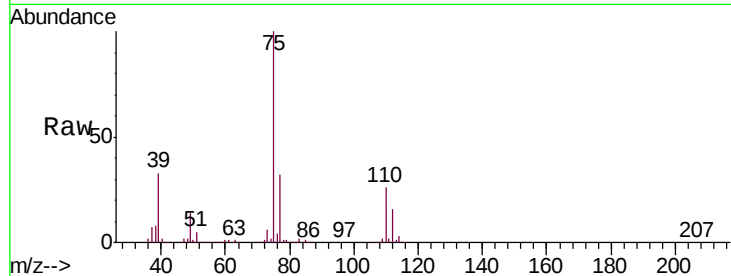




#39
 cis-1,3-Dichloropropene
 Concen: 92.201 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

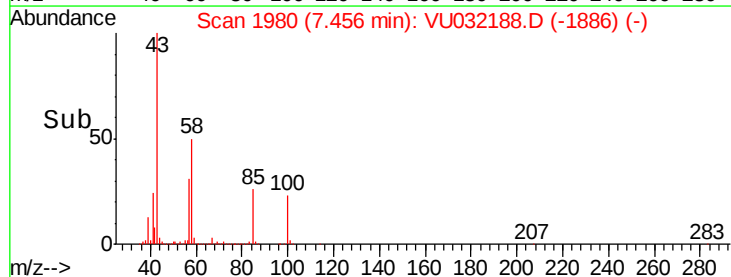
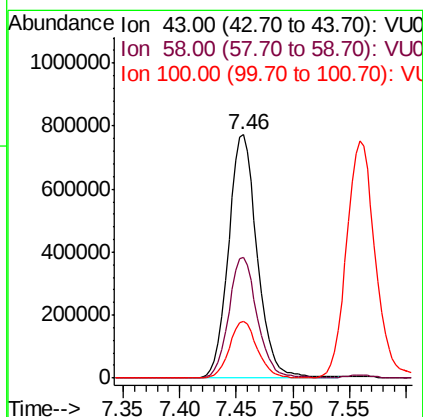
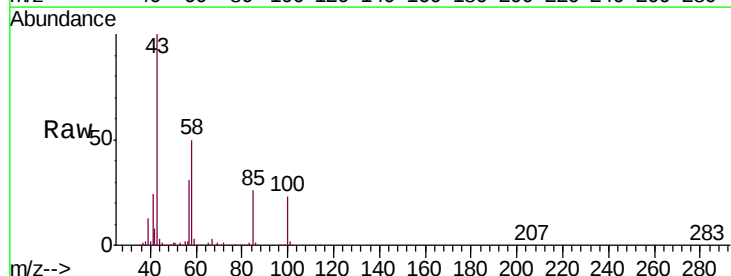
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10054

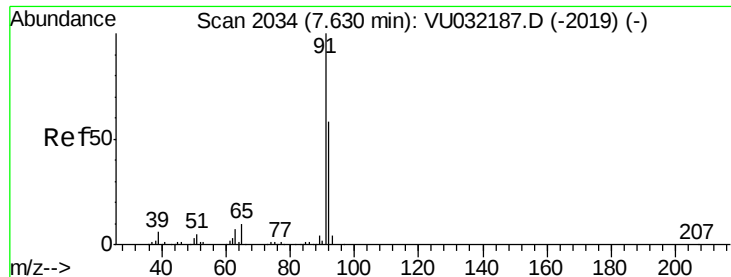
Tgt Ion: 75 Resp: 925194
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 148.177 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Tgt Ion: 43 Resp: 1363057
 Ion Ratio Lower Upper
 43 100
 58 49.4 38.6 58.0
 100 22.7 17.9 26.9





#42

Toluene

Concen: 95.206 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

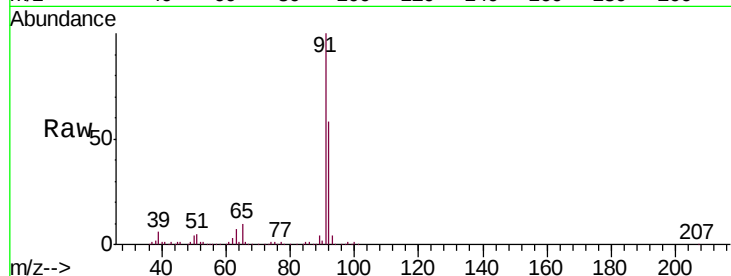
VSTD10054

Tgt Ion: 91 Resp: 2605789

Ion Ratio Lower Upper

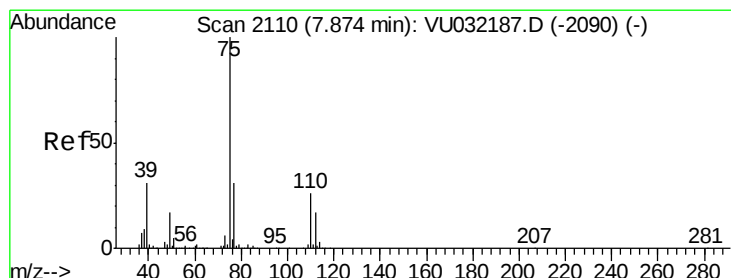
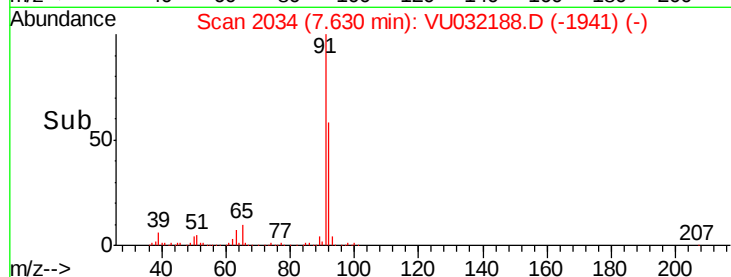
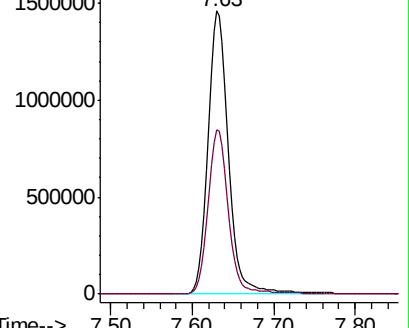
91 100

92 57.9 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU032188.D (-2019) (-)

Ion 92.00 (91.70 to 92.70): VU032188.D (-2019) (-)



#44

trans-1,3-Dichloropropene

Concen: 91.989 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032188.D

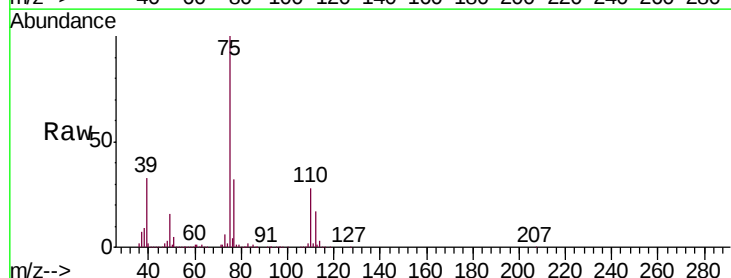
Acq: 21 May 2019 10:31

Tgt Ion: 75 Resp: 812956

Ion Ratio Lower Upper

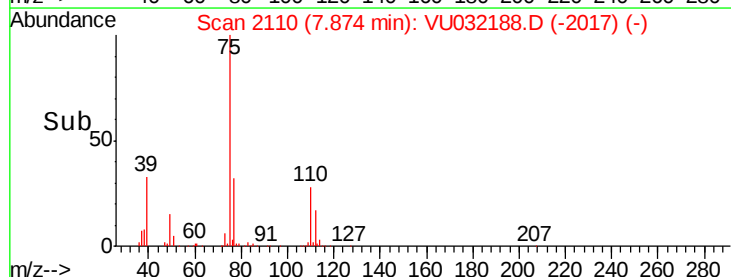
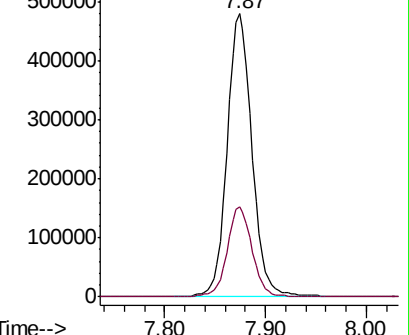
75 100

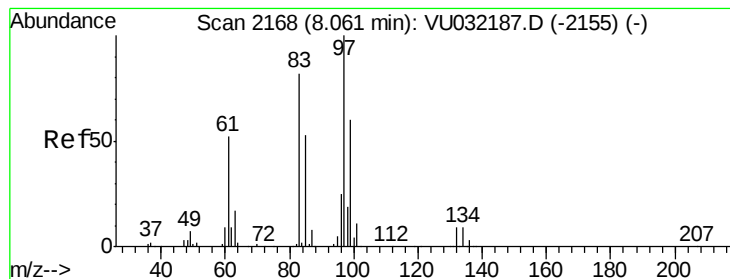
77 31.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032188.D (-2019) (-)

Ion 77.00 (76.70 to 77.70): VU032188.D (-2019) (-)





#45

1,1,2-Trichloroethane

Concen: 90.257 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD10054

Tgt Ion: 97 Resp: 596709

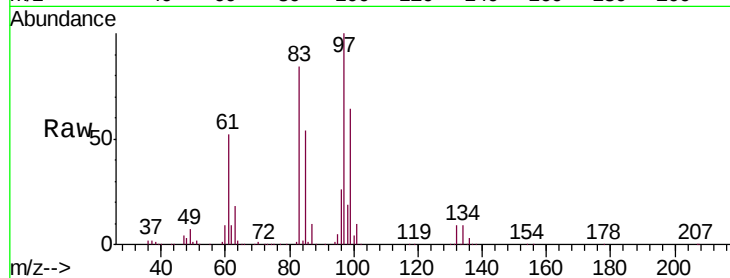
Ion Ratio Lower Upper

97 100

99 64.3 41.8 77.6

83 84.5 57.3 106.3

85 54.2 37.2 69.2

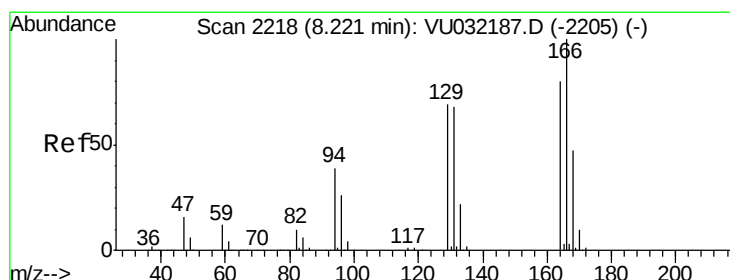
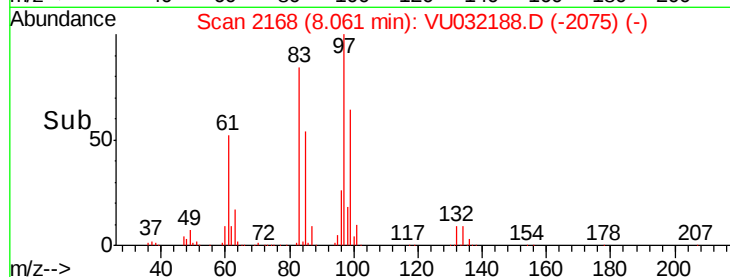
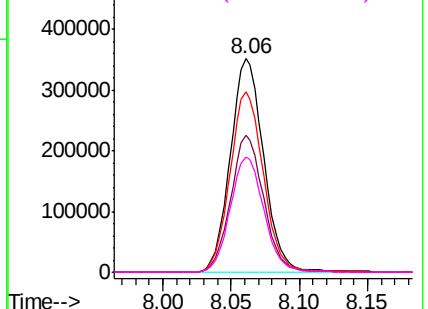


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 104.554 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Tgt Ion: 164 Resp: 505713

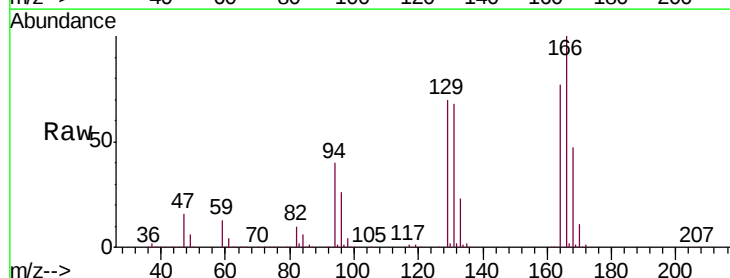
Ion Ratio Lower Upper

164 100

129 90.8 60.8 113.0

131 87.6 59.7 110.9

166 129.4 87.6 162.6

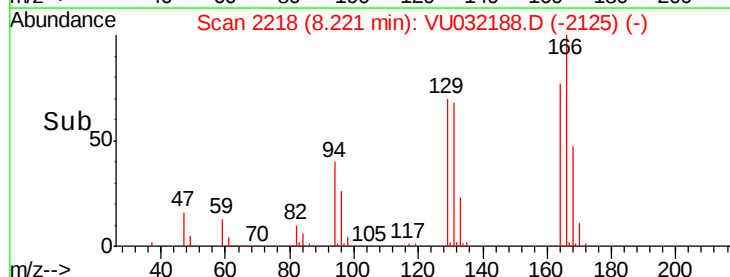
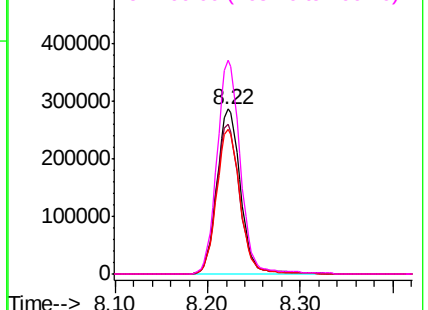


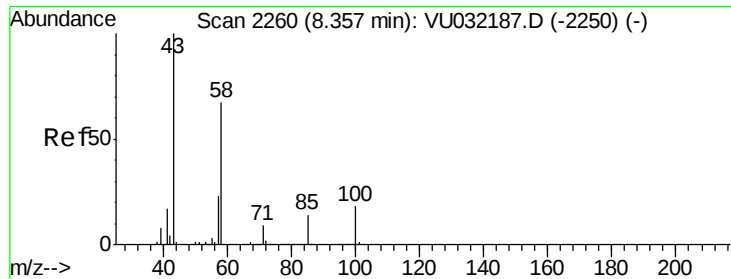
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

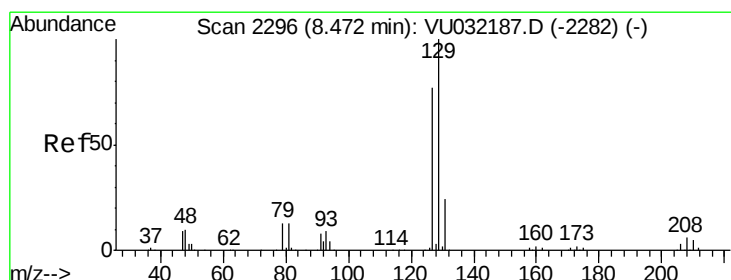
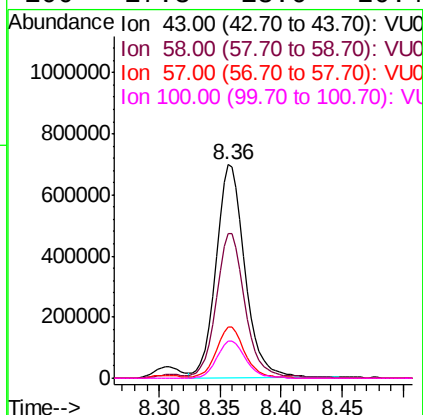
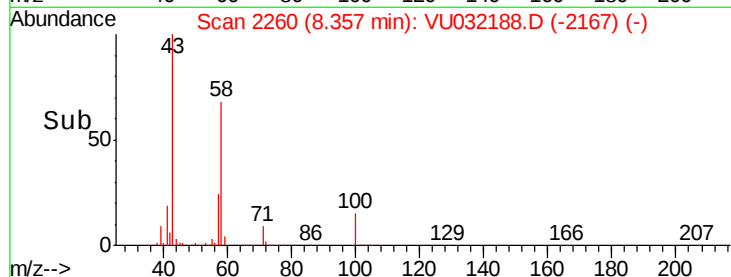
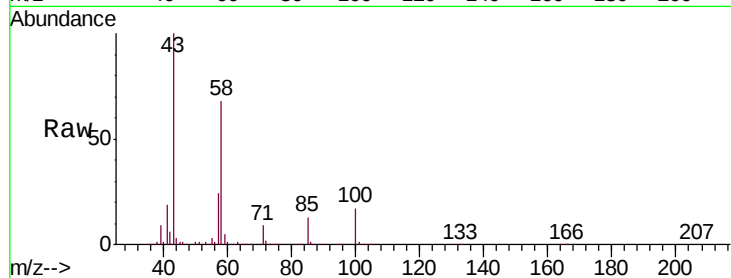




#48
2-Hexanone
Concen: 154.840 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

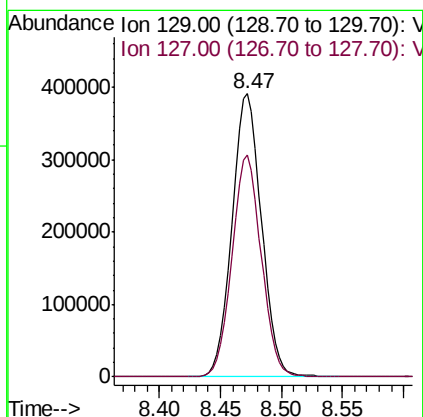
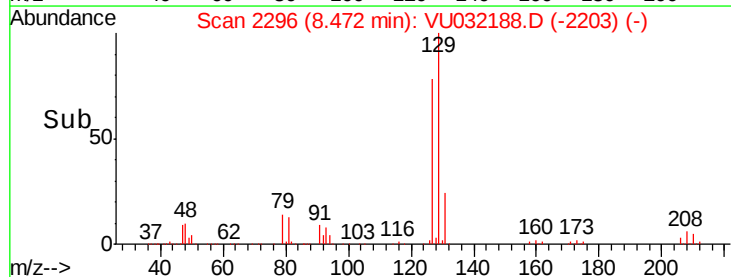
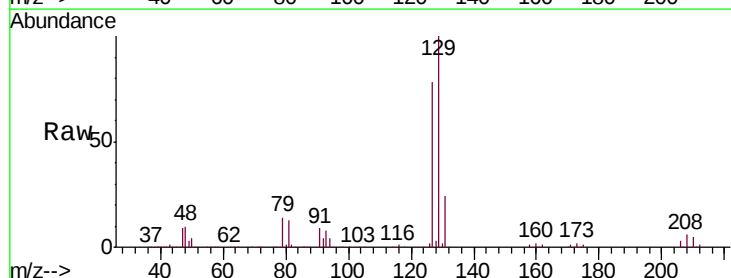
Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

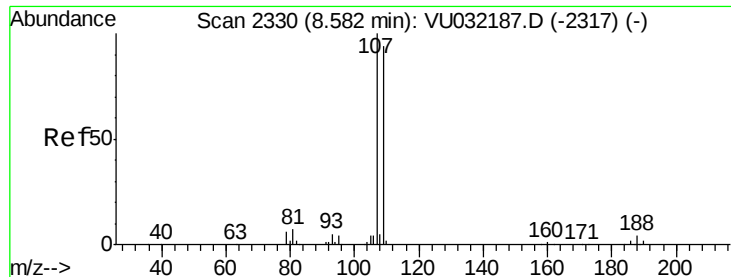
Tgt Ion: 43 Resp: 1158381
Ion Ratio Lower Upper
43 100
58 68.6 54.1 81.1
57 24.2 19.4 29.0
100 17.3 13.6 20.4



#49
Dibromochloromethane
Concen: 97.816 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

Tgt Ion: 129 Resp: 657691
Ion Ratio Lower Upper
129 100
127 78.3 53.6 99.6

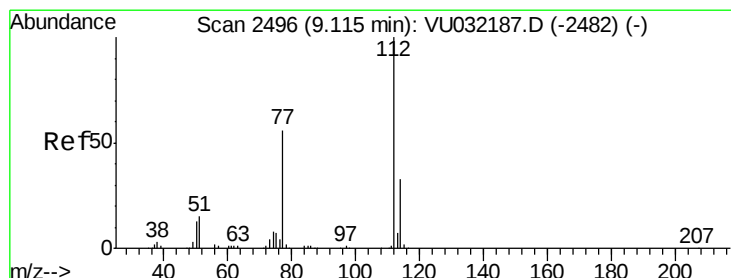
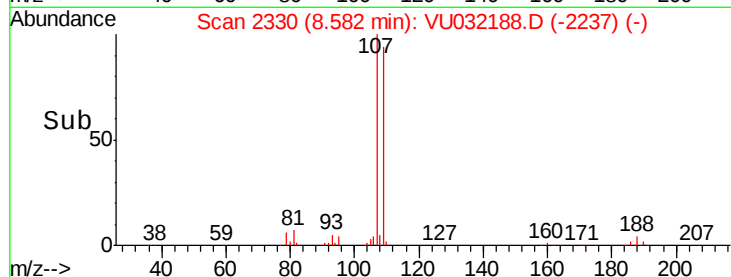
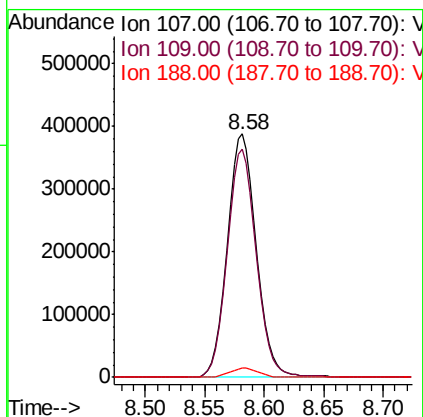
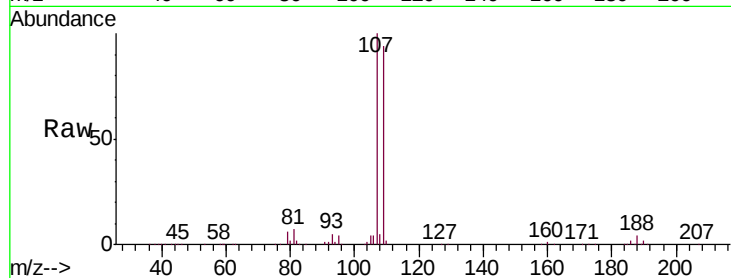




#50
1,2-Dibromoethane
Concen: 93.533 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

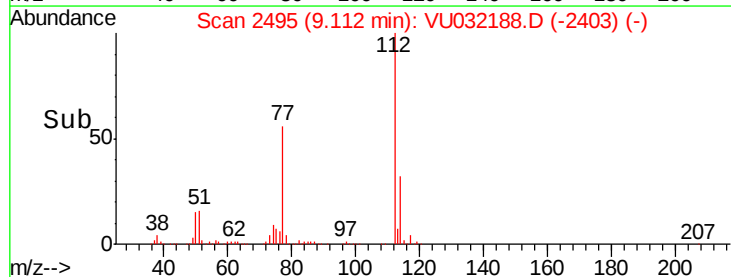
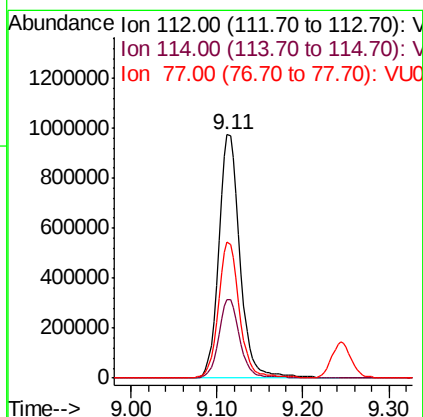
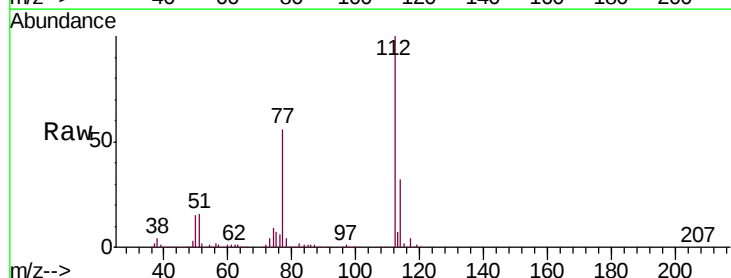
Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

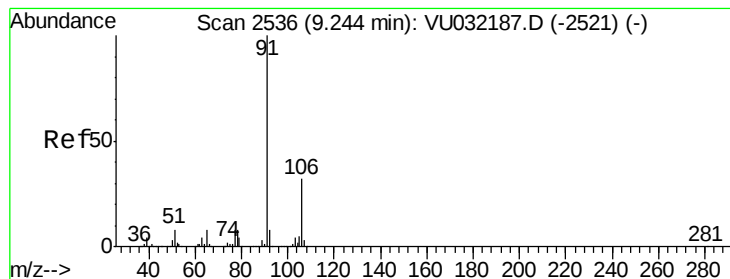
Tgt Ion:107 Resp: 655062
Ion Ratio Lower Upper
107 100
109 93.8 65.7 122.1
188 3.7 3.1 4.7



#51
Chlorobenzene
Concen: 94.846 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. -0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

Tgt Ion:112 Resp: 1670207
Ion Ratio Lower Upper
112 100
114 32.3 23.1 42.9
77 55.8 44.9 67.3





#52

Ethylbenzene

Concen: 96.738 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

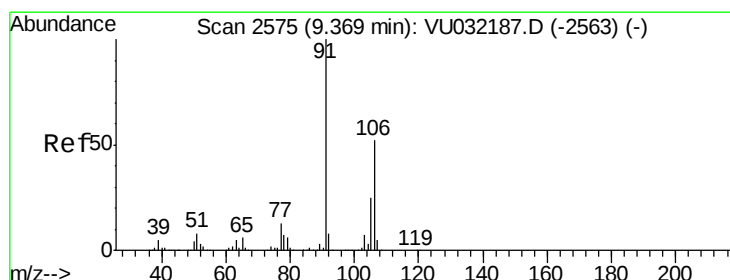
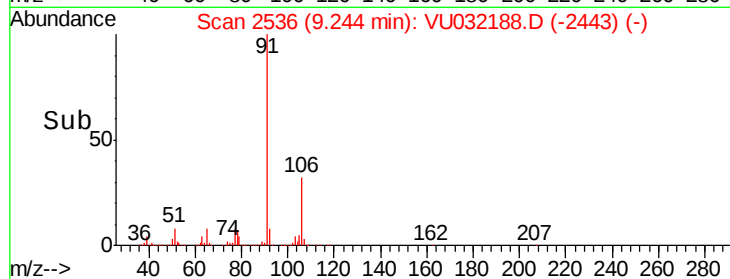
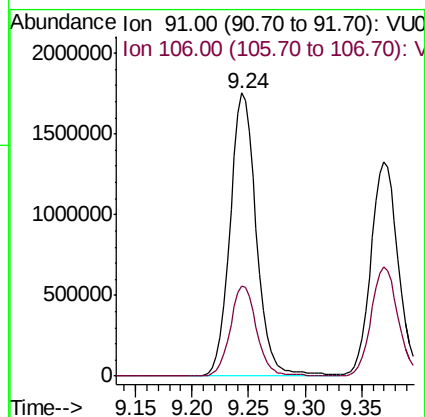
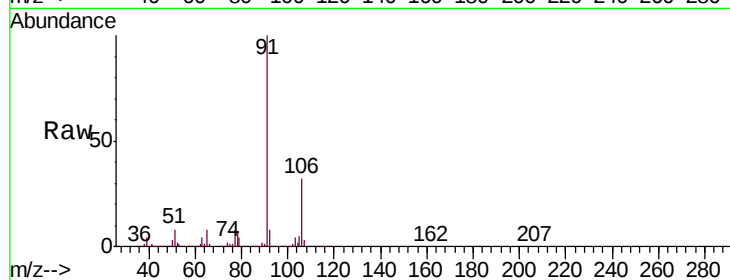
VSTD10054

Tgt Ion: 91 Resp: 2838568

Ion Ratio Lower Upper

91 100

106 31.9 22.5 41.9



#53

m,p-Xylene

Concen: 103.331 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032188.D

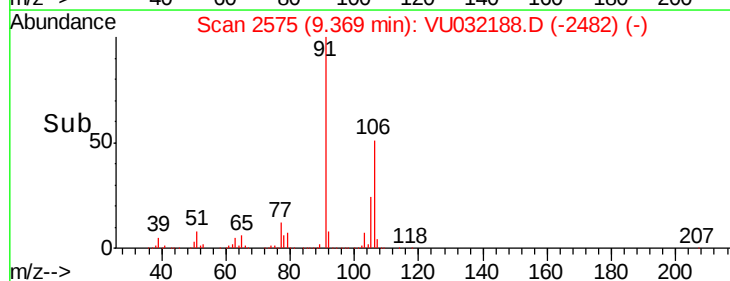
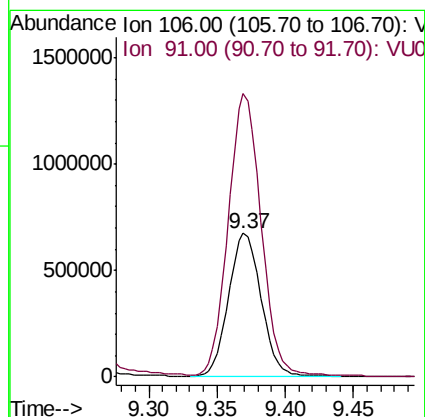
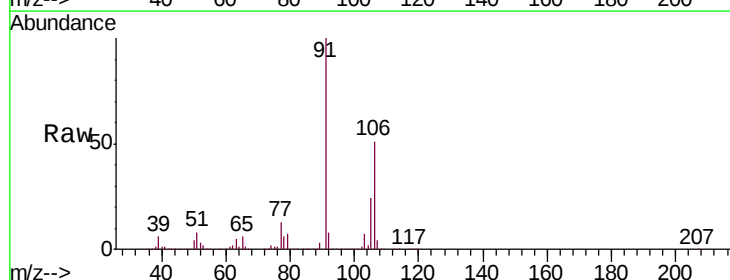
Acq: 21 May 2019 10:31

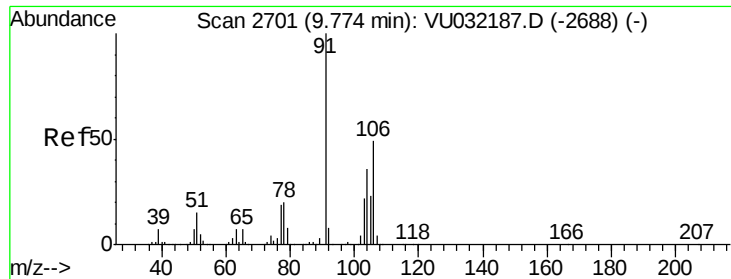
Tgt Ion: 106 Resp: 1117645

Ion Ratio Lower Upper

106 100

91 197.1 136.2 252.9

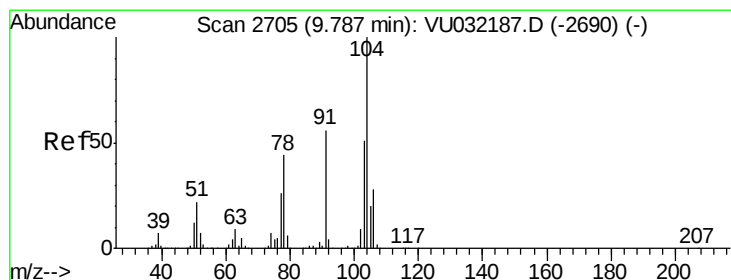
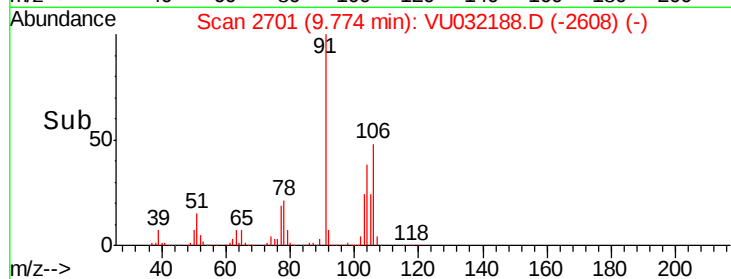
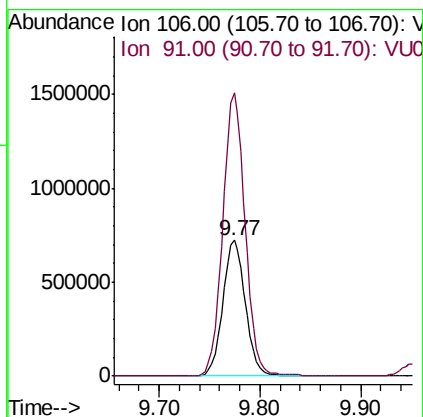
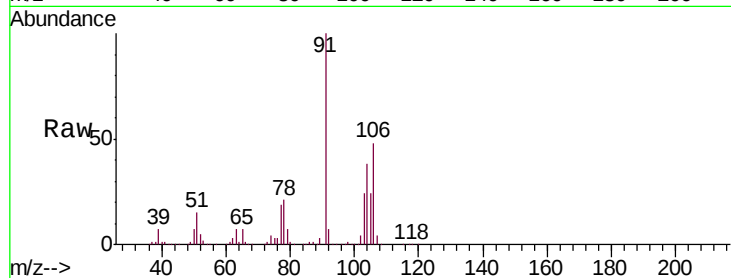




#54
o-xylene
Concen: 105.480 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

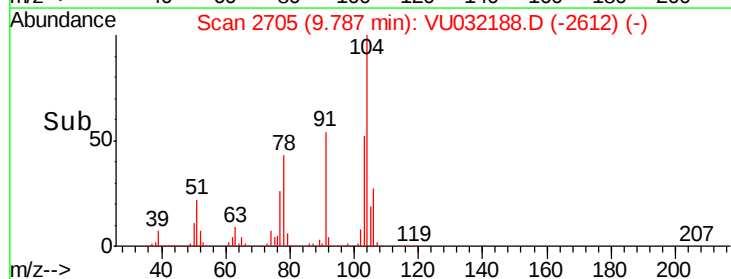
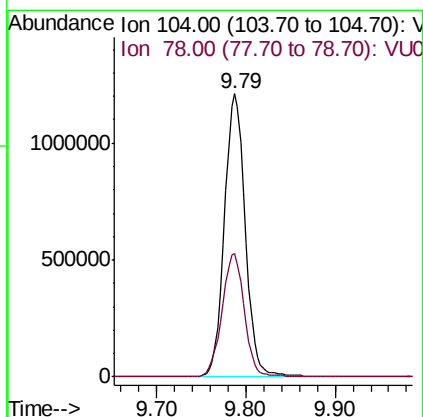
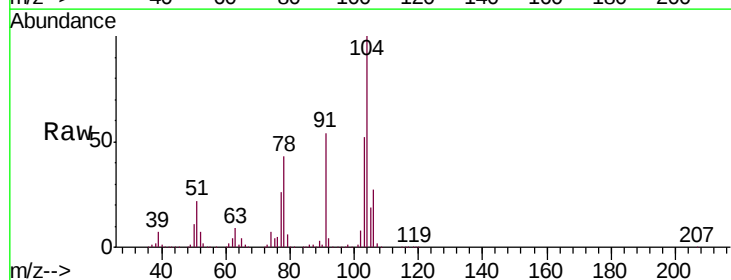
Instrument :
MSVOA_U
ClientSampleId :
VSTD10054

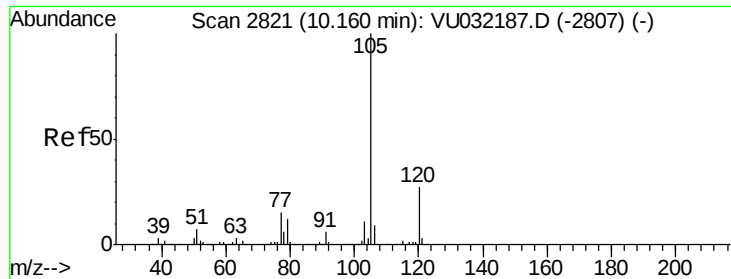
Tgt Ion:106 Resp: 1131933
Ion Ratio Lower Upper
106 100
91 208.0 143.1 265.9



#55
Styrene
Concen: 106.742 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU032188.D
Acq: 21 May 2019 10:31

Tgt Ion:104 Resp: 1962261
Ion Ratio Lower Upper
104 100
78 43.4 31.0 57.6





#56

Isopropylbenzene

Concen: 104.638 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD10054

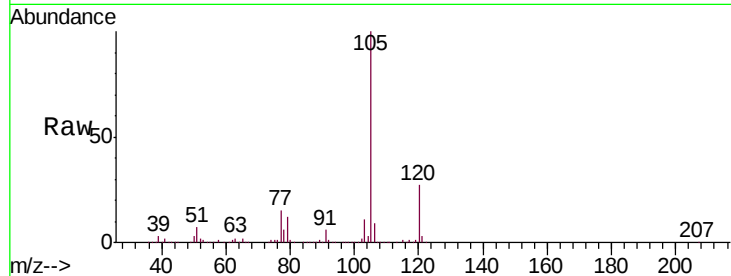
Tgt Ion:105 Resp: 2872060

Ion Ratio Lower Upper

105 100

120 26.9 21.3 31.9

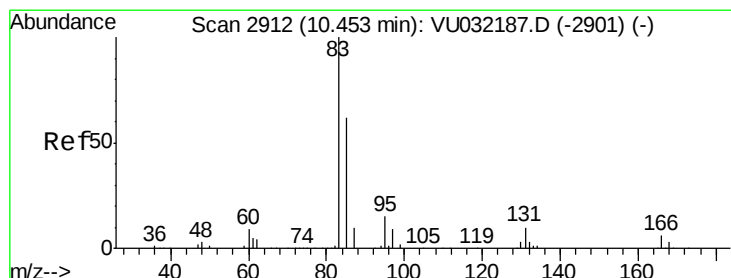
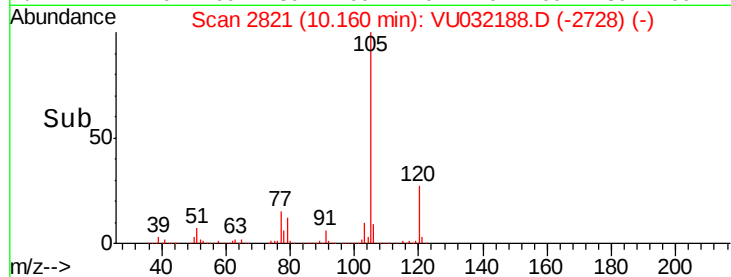
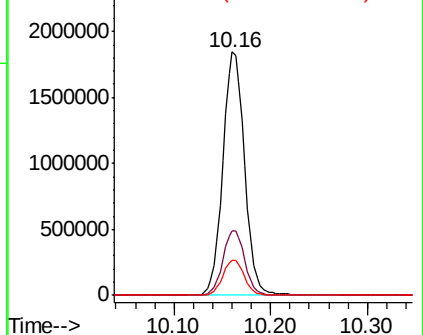
77 14.5 11.7 17.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 86.961 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

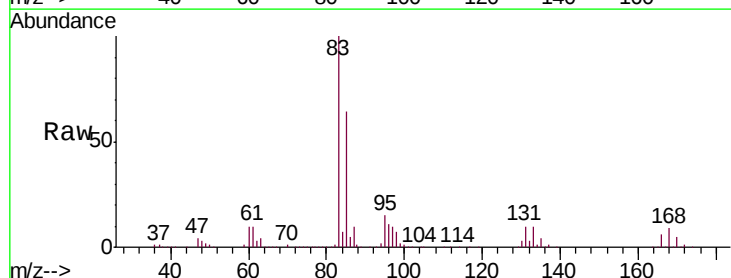
Tgt Ion: 83 Resp: 1022494

Ion Ratio Lower Upper

83 100

85 64.3 44.1 81.9

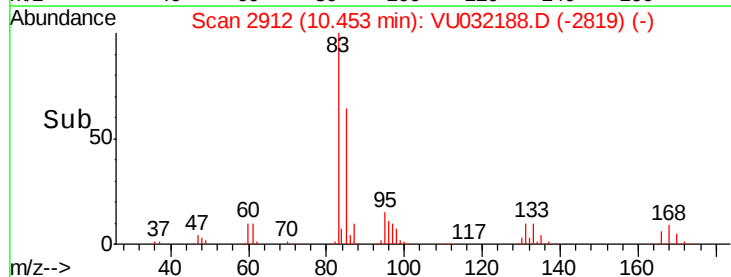
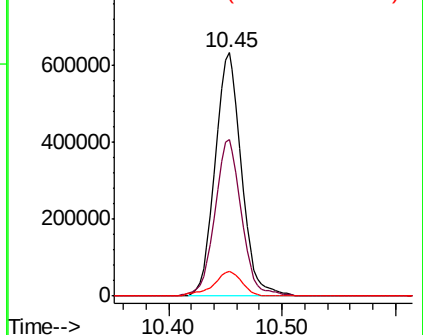
131 10.1 8.6 12.8

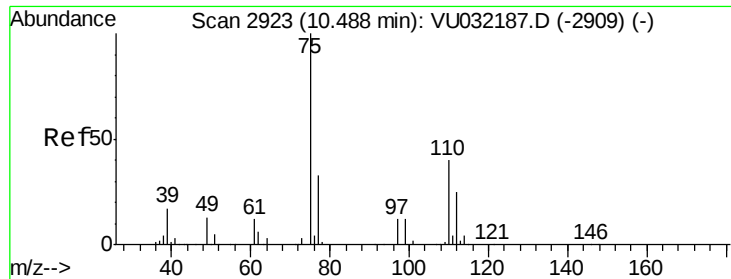


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 85.608 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

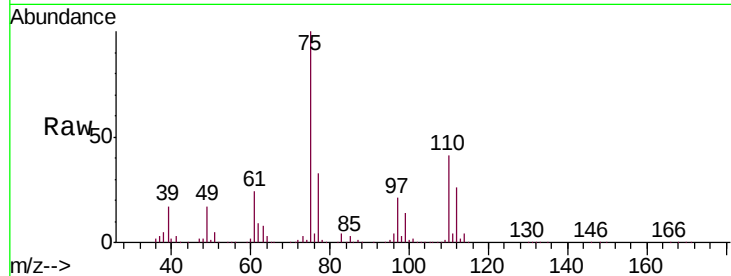
VSTD10054

Tgt Ion: 75 Resp: 788975

Ion Ratio Lower Upper

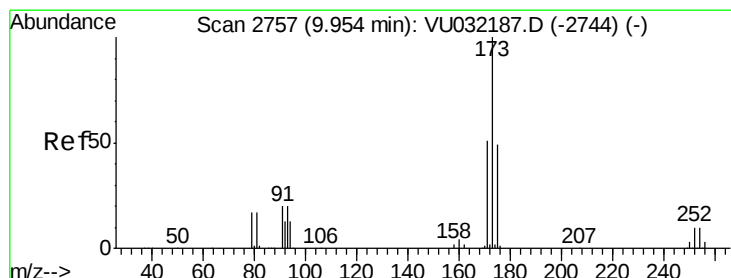
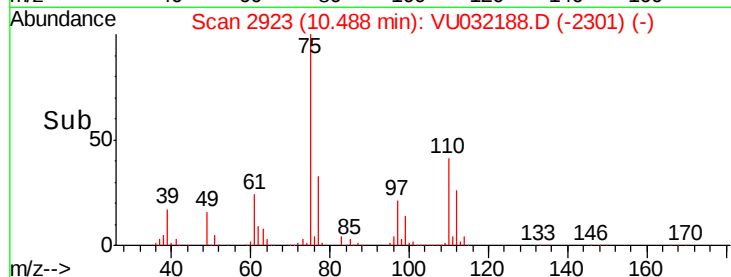
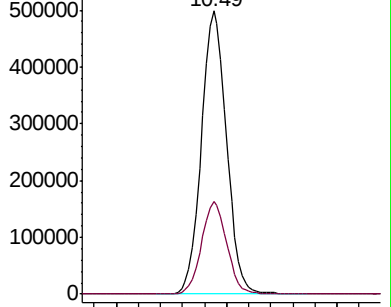
75 100

77 32.5 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU032187.D (-2909) (-)

Ion 77.00 (76.70 to 77.70): VU032187.D (-2909) (-)



#61

Bromoform

Concen: 92.067 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

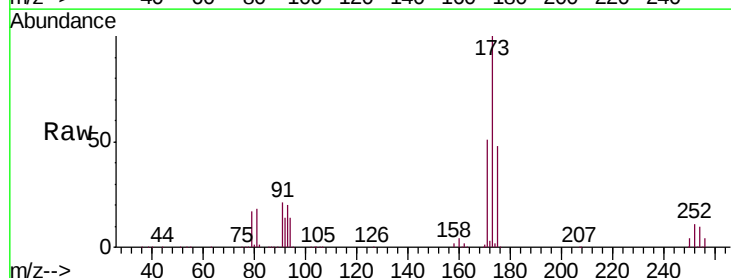
Tgt Ion: 173 Resp: 535113

Ion Ratio Lower Upper

173 100

175 47.6 38.6 57.8

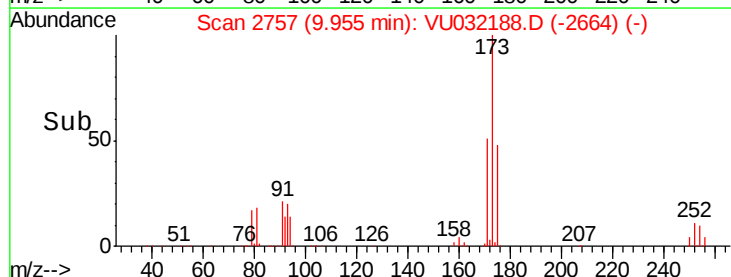
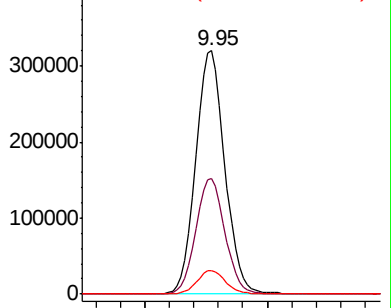
254 9.6 7.8 11.6

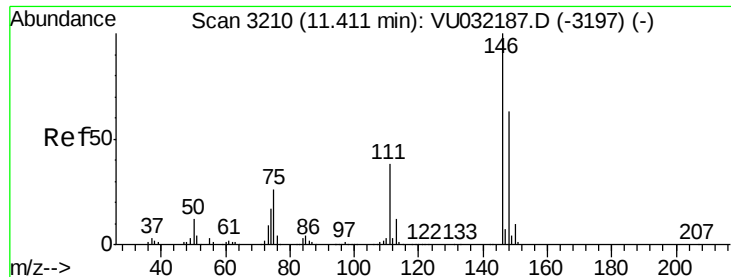


Abundance Ion 173.00 (172.70 to 173.70): VU032187.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032187.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032187.D (-2744) (-)

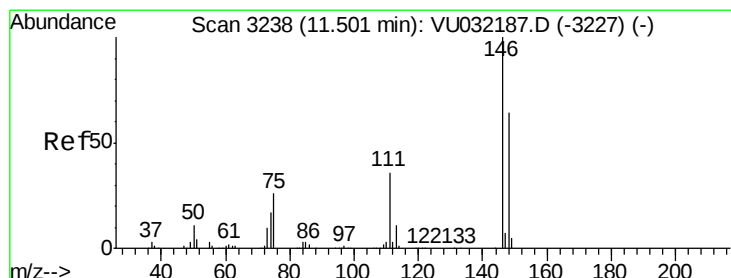
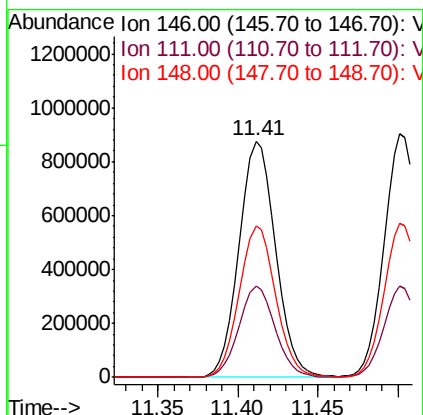
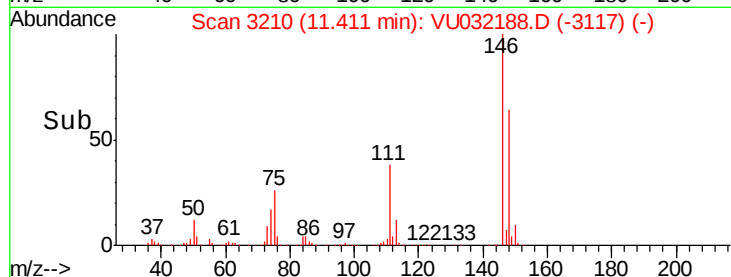
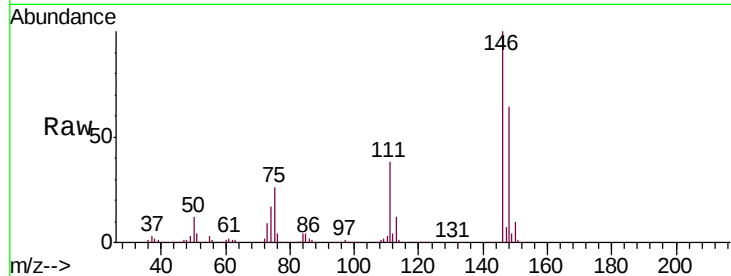




#62
 1,3-Dichlorobenzene
 Concen: 95.725 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

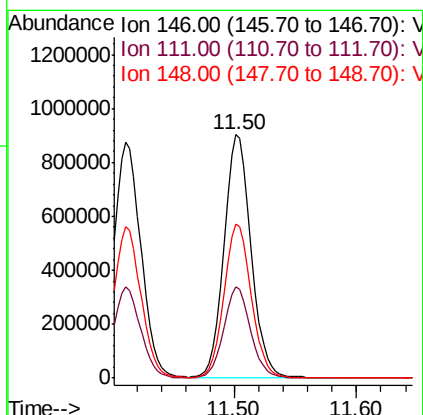
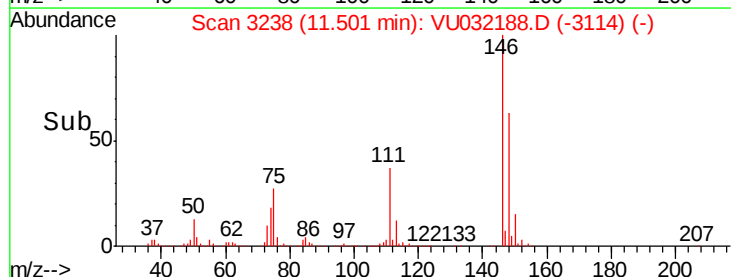
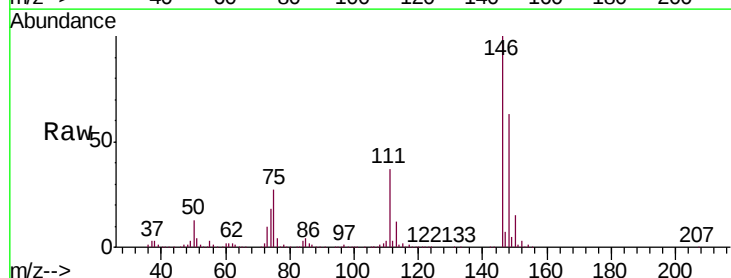
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10054

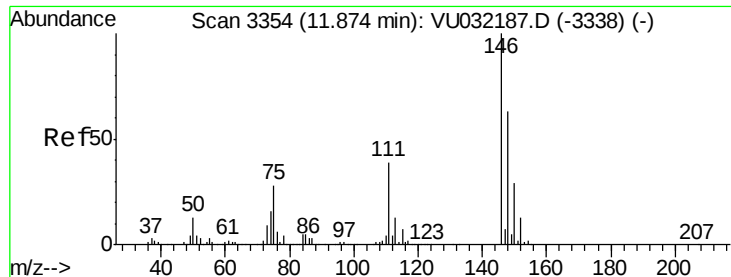
Tgt Ion:146 Resp: 1363838
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.5 49.3
 148 63.8 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 93.772 ug/L
 RT: 11.50 min Scan# 3238
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Tgt Ion:146 Resp: 1406849
 Ion Ratio Lower Upper
 146 100
 111 37.3 25.8 47.8
 148 63.4 44.9 83.5

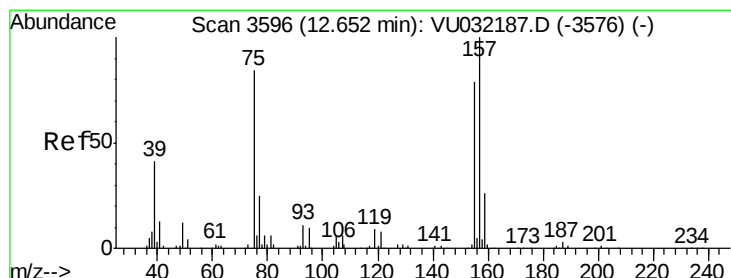
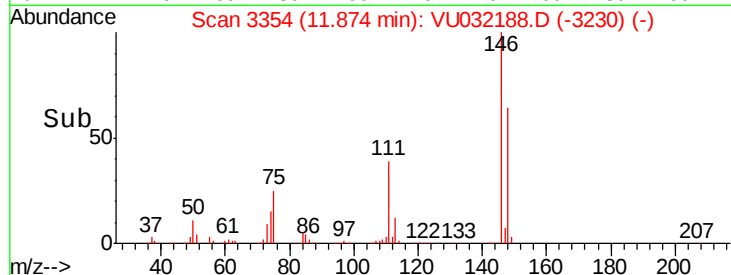
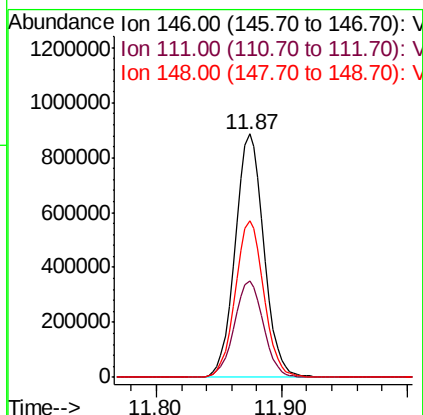
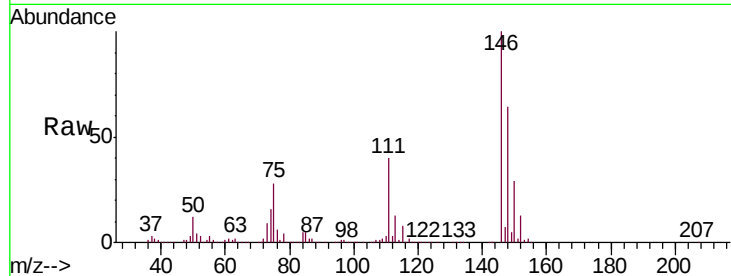




#65
 1,2-Dichlorobenzene
 Concen: 93.157 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

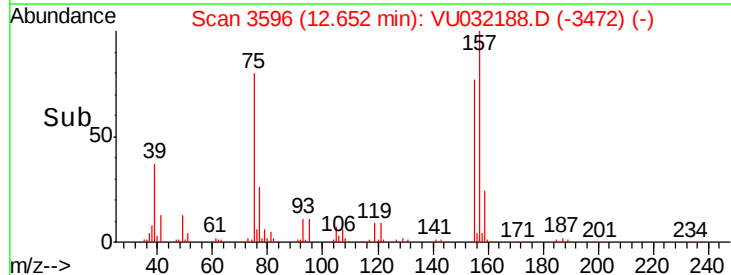
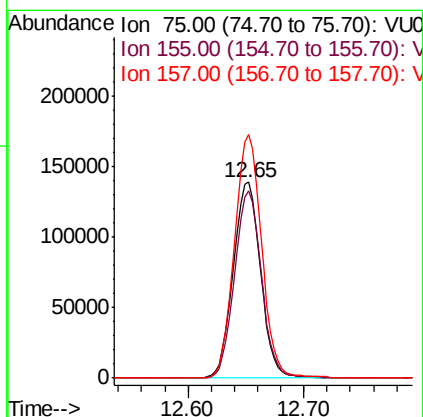
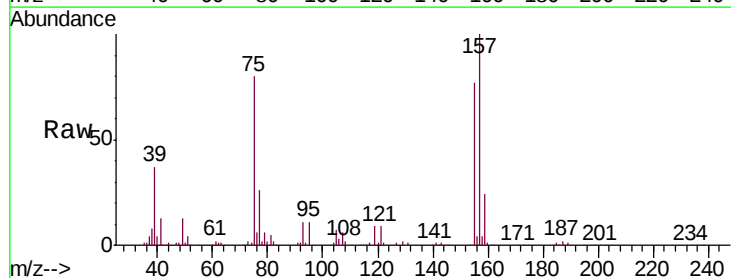
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD10054

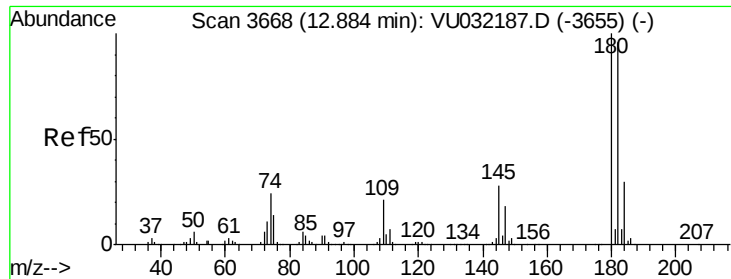
Tgt Ion:146 Resp: 1405038
 Ion Ratio Lower Upper
 146 100
 111 39.6 31.5 47.3
 148 64.5 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 80.581 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Tgt Ion: 75 Resp: 226337
 Ion Ratio Lower Upper
 75 100
 155 95.5 74.6 112.0
 157 124.4 94.8 142.2

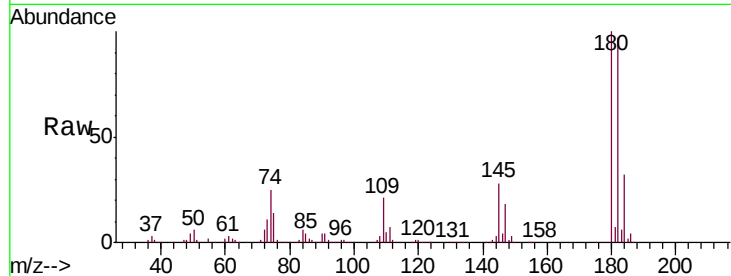




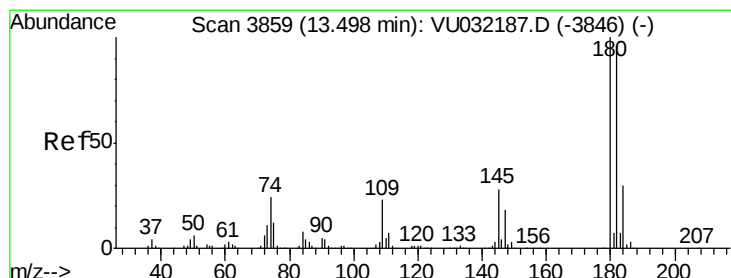
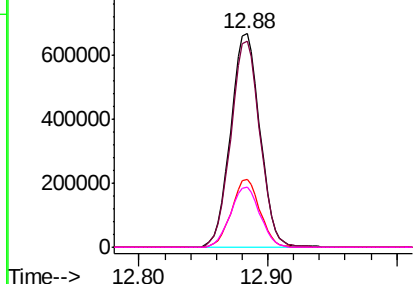
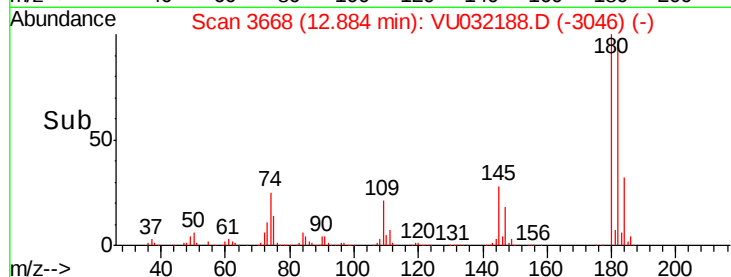
#67
 1,3,5-Trichlorobenzene
 Concen: 101.895 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10054

Tgt Ion:180 Resp: 1053202
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.5 114.7
 184 30.9 24.9 37.3
 145 28.4 22.5 33.7

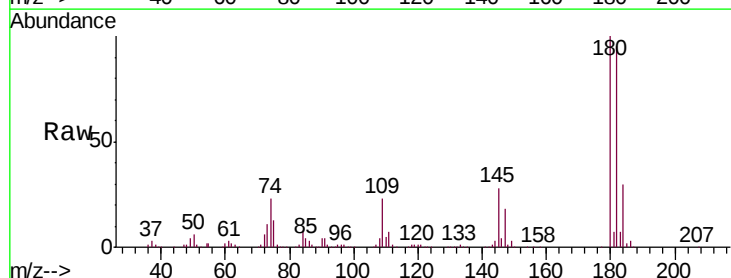


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

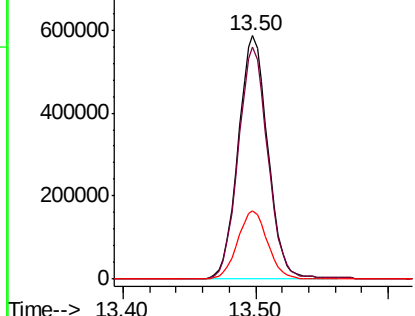
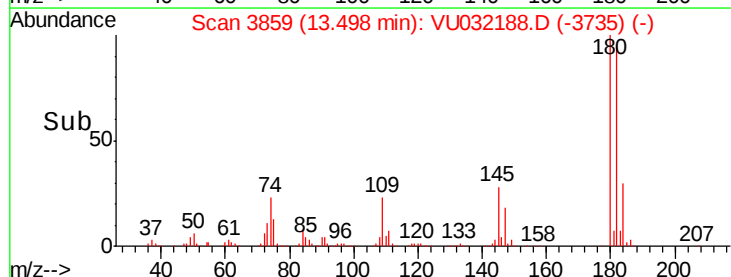


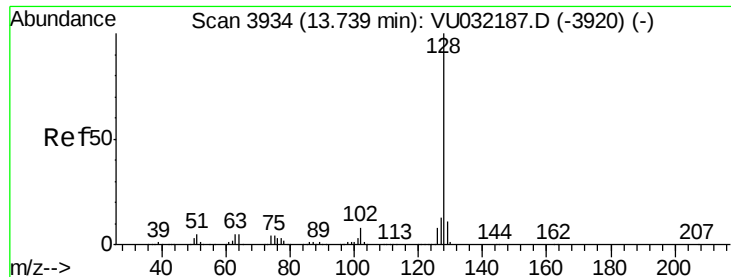
#68
 1,2,4-trichlorobenzene
 Concen: 114.750 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032188.D
 Acq: 21 May 2019 10:31

Tgt Ion:180 Resp: 912344
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.8 115.2
 145 28.3 23.0 34.6



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: 115.195 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD10054

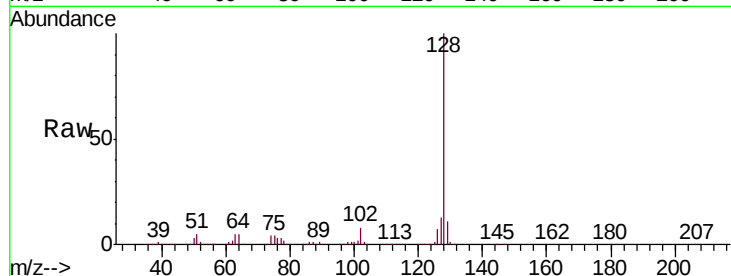
Tgt Ion:128 Resp: 2985380

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

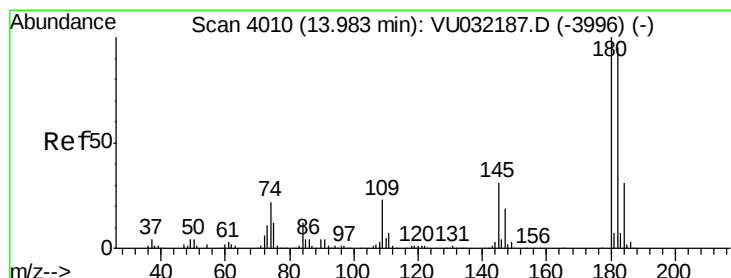
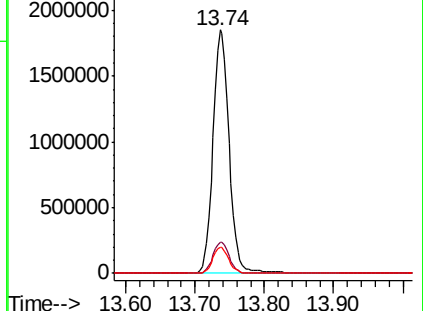
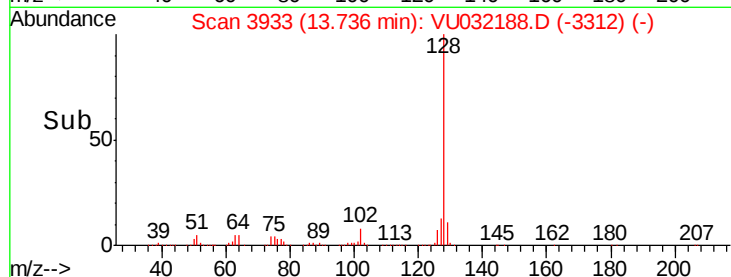
129 10.6 8.6 12.8



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: 112.077 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032188.D

Acq: 21 May 2019 10:31

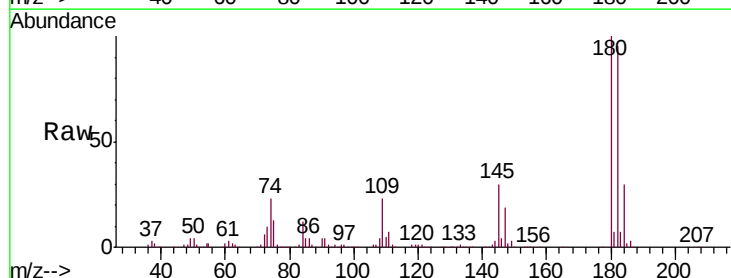
Tgt Ion:180 Resp: 971661

Ion Ratio Lower Upper

180 100

182 95.2 74.6 112.0

145 29.9 23.8 35.8



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

