

Data File : VU032146.D
Acq On : 20 May 2019 11:30
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Quant Time: May 21 06:39:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR051619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon May 20 04:57:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	366314	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	374525	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	178281	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	115555	3.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.80%
7) Chloroethane-d5	1.67	69	107473	4.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.60%
11) 1,1-Dichloroethene-d2	2.27	63	189632	3.86	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.20%
20) 2-Butanone-d5	4.19	46	271461	44.81	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.62%
24) Chloroform-d	4.64	84	246638	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.31	65	120440	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
32) Benzene-d6	5.33	84	482339	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
36) 1,2-Dichloropropane-d6	6.32	67	140848	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.40%
41) Toluene-d8	7.56	98	433303	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
43) trans-1,3-Dichloropropene-	7.85	79	53501	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.31	63	238930	44.01	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.02%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	119660	4.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.60%
64) 1,2-Dichlorobenzene-d4	11.85	152	168166	4.45	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	93008	5.073 ug/L	100
3) Chloromethane	1.32	50	81166	4.613 ug/L	99
5) Vinyl chloride	1.40	62	90372	4.889 ug/L	95
6) Bromomethane	1.61	94	52576	4.935 ug/L	100
8) Chloroethane	1.68	64	52720	4.599 ug/L	95
9) Trichlorofluoromethane	1.88	101	118686	5.233 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	76284	5.076 ug/L	98
12) 1,1-Dichloroethene	2.28	96	71535	4.863 ug/L #	73
13) Acetone	2.32	43	86447	43.468 ug/L	99
14) Carbon disulfide	2.47	76	221401	4.719 ug/L	99
15) Methyl Acetate	2.61	43	22568	3.958 ug/L	98
16) Methylene chloride	2.69	84	78821	4.489 ug/L	92
17) Methyl tert-butyl Ether	3.00	73	165873	4.796 ug/L	97
18) trans-1,2-Dichloroethene	2.97	96	79333	5.038 ug/L	100
19) 1,1-Dichloroethane	3.43	63	123958	4.962 ug/L	99
21) 2-Butanone	4.28	43	136329	47.758 ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	79317	5.120 ug/L	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	35055	5.274	ug/L	92
25) Chloroform	4.67	83	130554	4.888	ug/L	95
27) 1,2-Dichloroethane	5.40	62	77178	5.003	ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	113515	5.195	ug/L	95
30) Cyclohexane	4.98	56	92447	4.601	ug/L	97
31) Carbon tetrachloride	5.12	117	95855	5.160	ug/L	96
33) Benzene	5.38	78	290306	5.048	ug/L	100
34) Trichloroethene	6.18	95	75659	4.850	ug/L	95
35) Methylcyclohexane	6.41	83	108905	4.848	ug/L	95
37) 1,2-Dichloropropane	6.43	63	66640	4.739	ug/L	98
38) Bromodichloromethane	6.75	83	87886	4.887	ug/L #	98
39) cis-1,3-Dichloropropene	7.27	75	89472	4.602	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	294981	45.254	ug/L	99
42) Toluene	7.63	91	321411	5.336	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	79035	5.228	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	52054	5.012	ug/L	96
47) Tetrachloroethene	8.22	164	63139	5.414	ug/L	92
48) 2-Hexanone	8.36	43	241471	47.759	ug/L	96
49) Dibromochloromethane	8.47	129	62691	5.237	ug/L	96
50) 1,2-Dibromoethane	8.58	107	48038	4.826	ug/L	98
51) Chlorobenzene	9.12	112	201520	5.297	ug/L	92
52) Ethylbenzene	9.25	91	304000	5.031	ug/L	97
53) m,p-Xylene	9.37	106	121480	5.293	ug/L	98
54) o-Xylene	9.77	106	122828	5.552	ug/L	90
55) Styrene	9.79	104	203824	5.433	ug/L	97
56) Isopropylbenzene	10.16	105	303605	5.370	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	61831	4.771	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	42725	4.784	ug/L	98
61) Bromoform	9.95	173	34403	5.028	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	150714	5.306	ug/L	96
63) 1,4-Dichlorobenzene	11.50	146	154026	5.210	ug/L	96
65) 1,2-Dichlorobenzene	11.87	146	150970	5.238	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	9607	5.108	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	121755	5.758	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	85303	5.836	ug/L	97
69) Naphthalene	13.74	128	120752	5.312	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	84759	5.713	ug/L	99

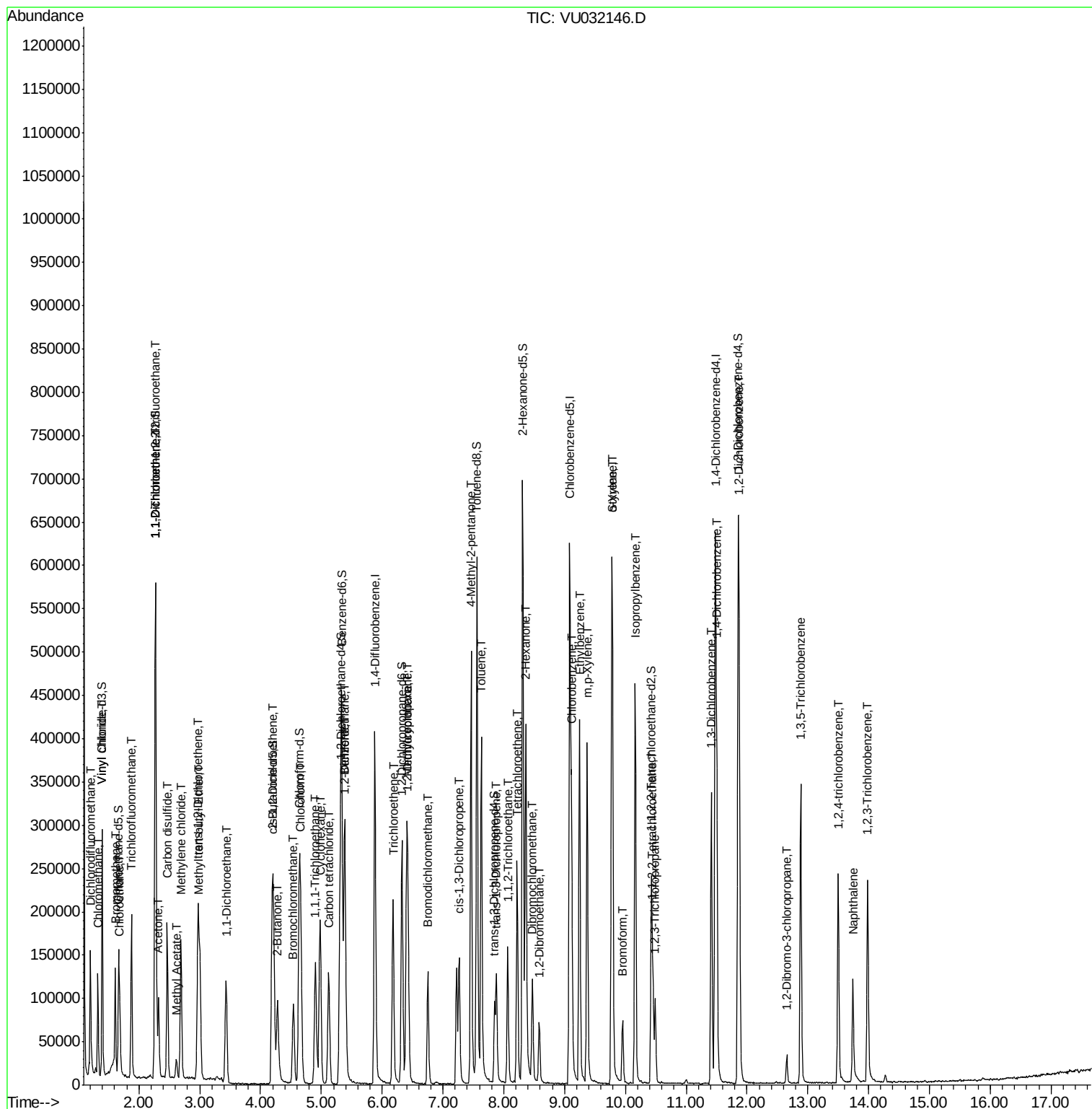
(#) = qualifier out of range (m) = manual integration (+) = signals summed

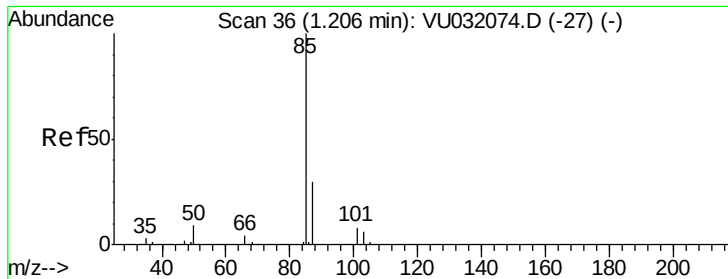
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#2

Dichlorodifluoromethane

Concen: 5.073 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

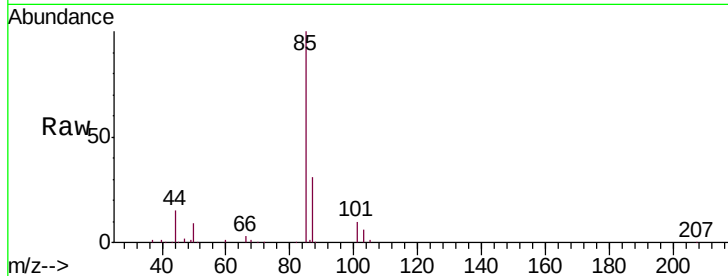
VSTD00507

Tgt Ion: 85 Resp: 93008

Ion Ratio Lower Upper

85 100

87 30.9 24.8 37.2

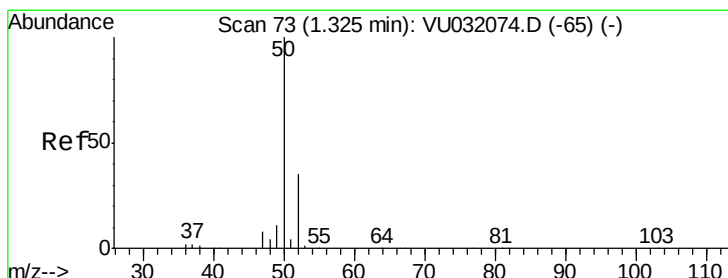
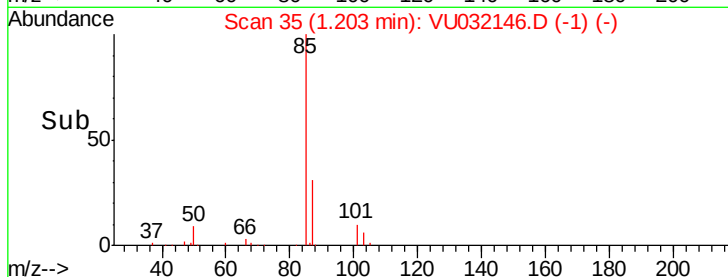


Abundance Ion 85.00 (84.70 to 85.70): VU032074.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU032074.D (-27) (-)

1.20

Time-->



#3

Chloromethane

Concen: 4.613 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032146.D

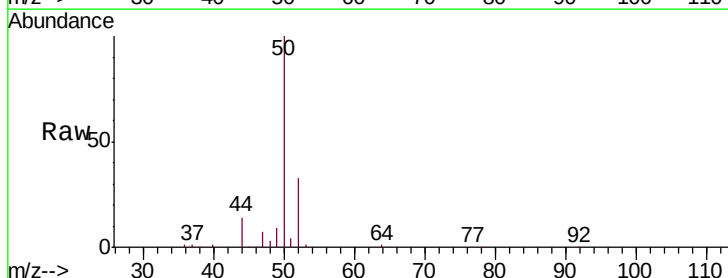
Acq: 20 May 2019 11:30

Tgt Ion: 50 Resp: 81166

Ion Ratio Lower Upper

50 100

52 33.4 23.2 43.0

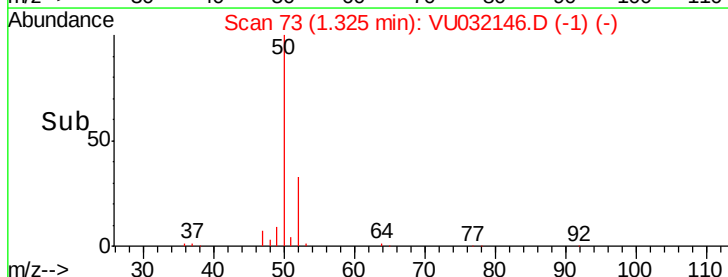


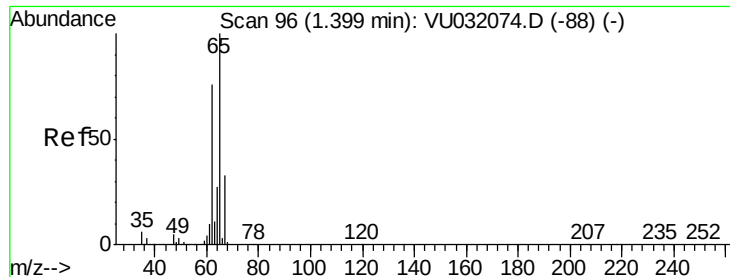
Abundance Ion 50.05 (49.75 to 50.75): VU032074.D (-65) (-)

Ion 52.05 (51.75 to 52.75): VU032074.D (-65) (-)

1.32

Time-->





#5

Vinyl chloride

Concen: 4.889 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

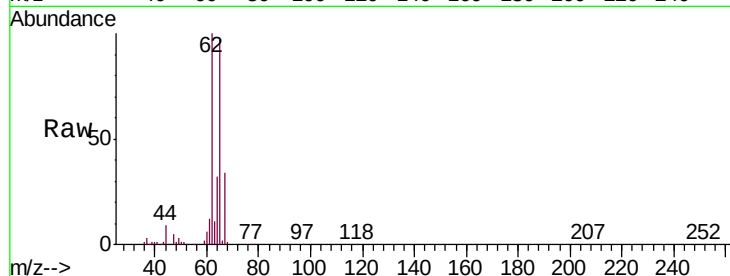
VSTD00507

Tgt Ion: 62 Resp: 90372

Ion Ratio Lower Upper

62 100

64 32.4 24.8 46.1



Abundance Ion 62.00 (61.70 to 62.70): VU032146.D (-3) (-)

Ion 64.10 (63.80 to 64.80): VU032146.D (-3) (-)

1.40

80000

60000

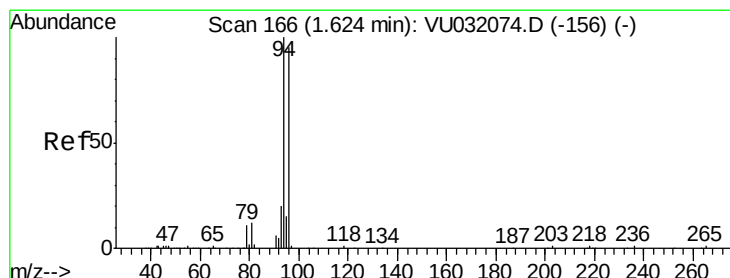
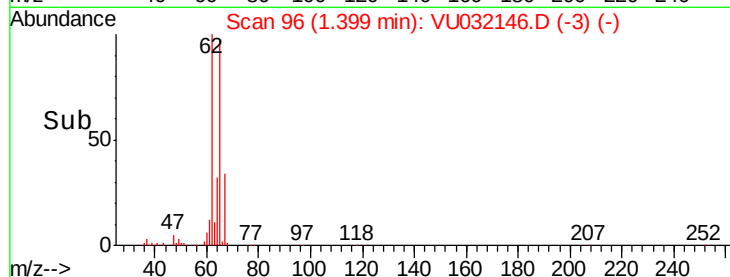
40000

20000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 4.935 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU032146.D

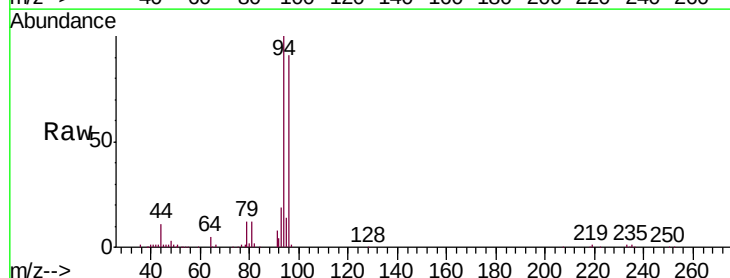
Acq: 20 May 2019 11:30

Tgt Ion: 94 Resp: 52576

Ion Ratio Lower Upper

94 100

96 90.8 63.3 117.7



Abundance Ion 94.00 (93.70 to 94.70): VU032146.D (-71) (-)

Ion 96.00 (95.70 to 96.70): VU032146.D (-71) (-)

1.61

50000

40000

30000

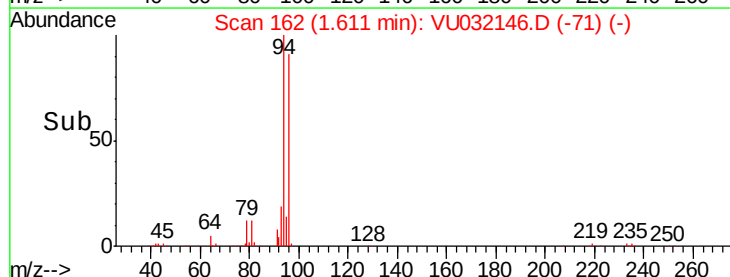
20000

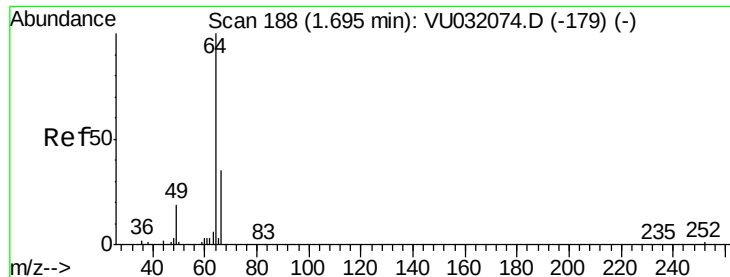
10000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 4.599 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

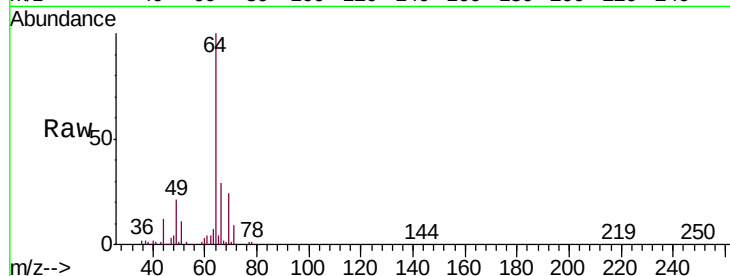
VSTD00507

Tgt Ion: 64 Resp: 52720

Ion Ratio Lower Upper

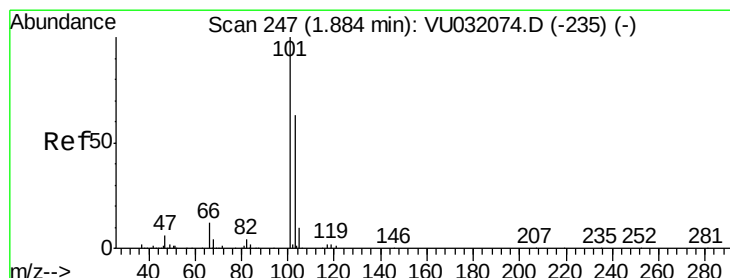
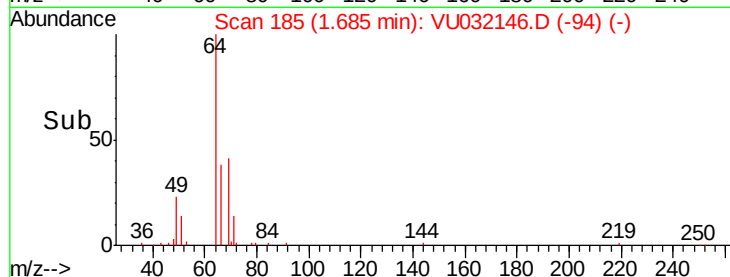
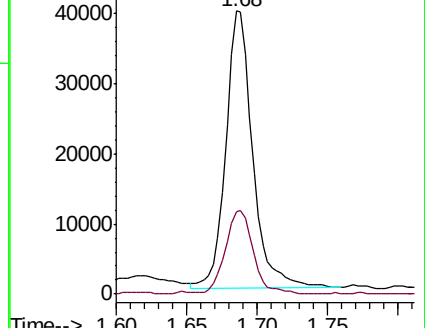
64 100

66 28.9 22.0 41.0



Abundance Ion 64.10 (63.80 to 64.80): VU032146.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU032146.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 5.233 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU032146.D

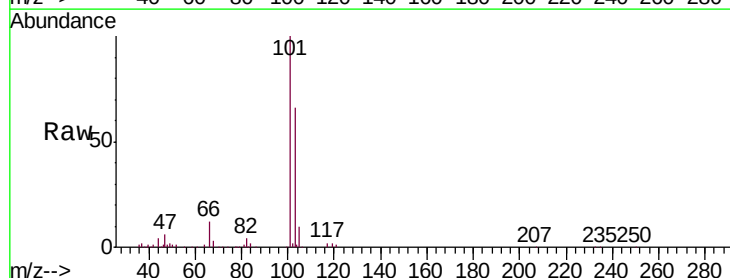
Acq: 20 May 2019 11:30

Tgt Ion: 101 Resp: 118686

Ion Ratio Lower Upper

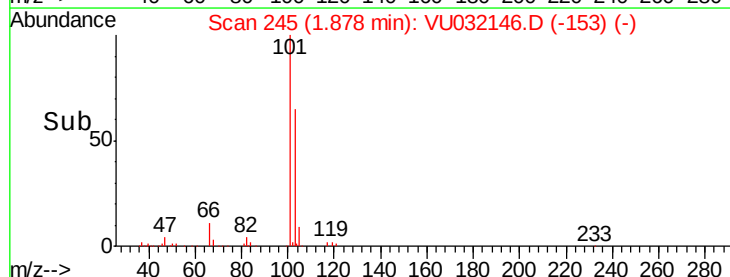
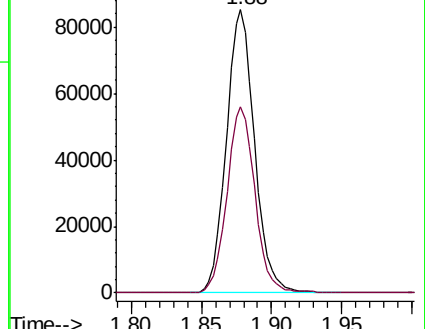
101 100

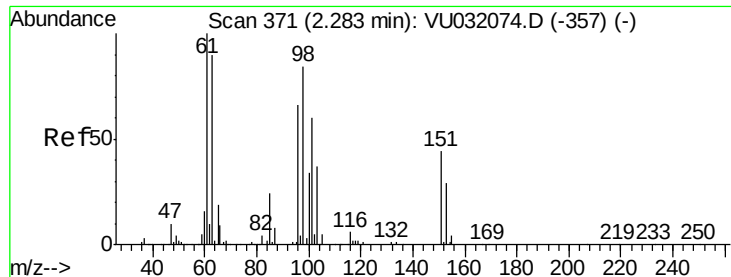
103 65.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU032146.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032146.D (-235) (-)





#10

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

Concen: 5.076 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

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ClientSampleId :

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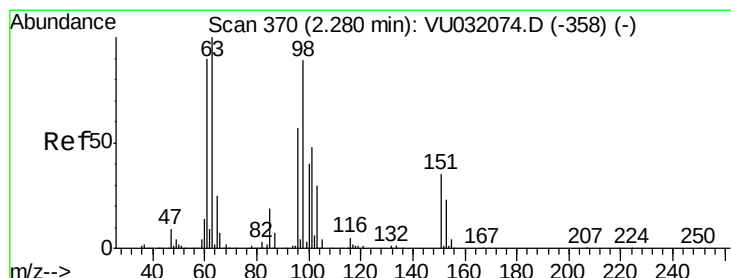
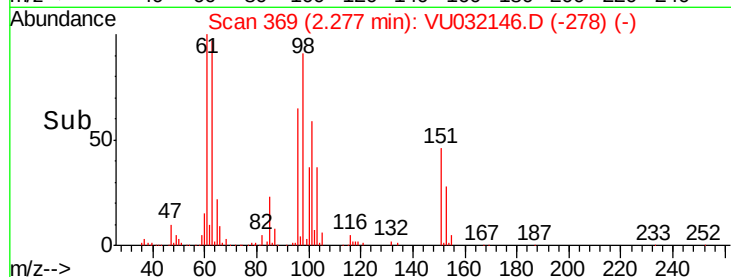
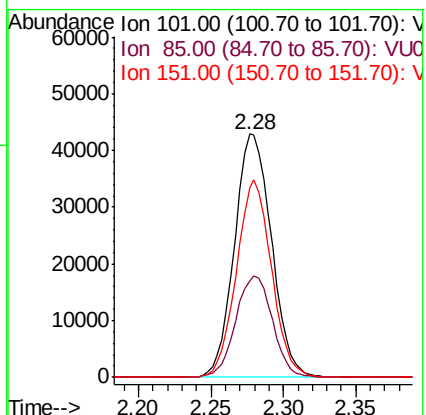
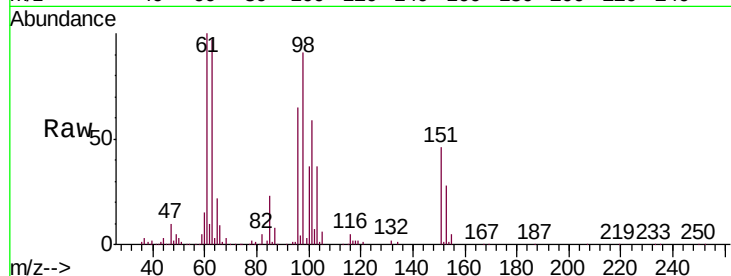
Tgt Ion:101 Resp: 76284

Ion Ratio Lower Upper

101 100

85 41.0 33.8 50.8

151 76.7 59.4 89.2



#12

1,1-Dichloroethene

Concen: 4.863 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

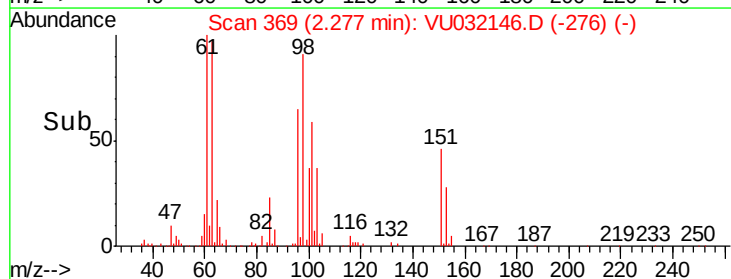
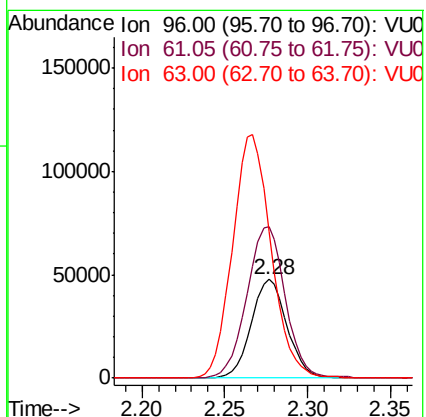
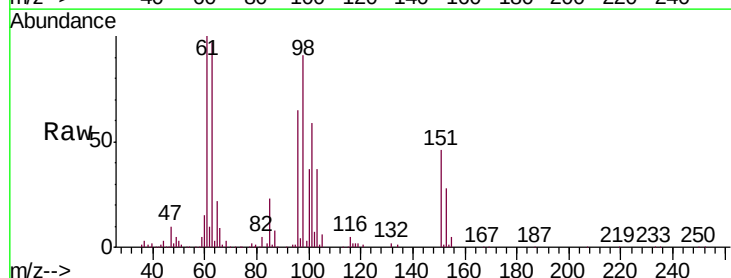
Tgt Ion: 96 Resp: 71535

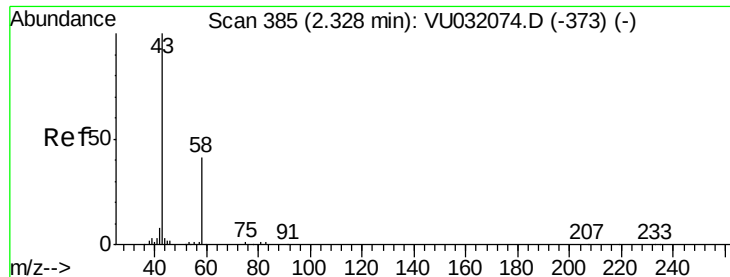
Ion Ratio Lower Upper

96 100

61 153.0 111.7 207.5

63 148.2 152.2 282.6#





#13

Acetone

Concen: 43.468 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.01 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

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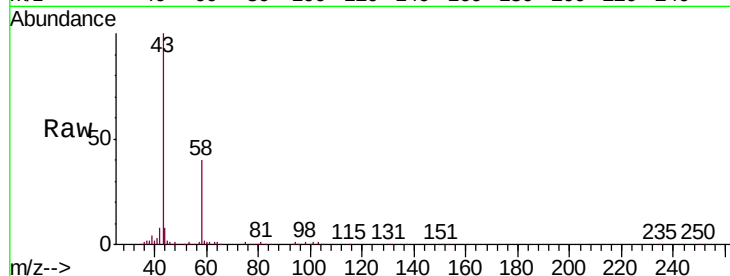
VSTD00507

Tgt Ion: 43 Resp: 86447

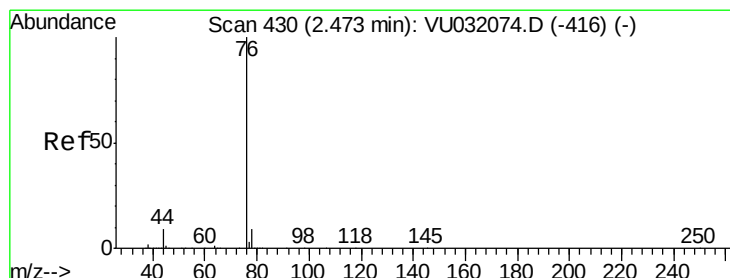
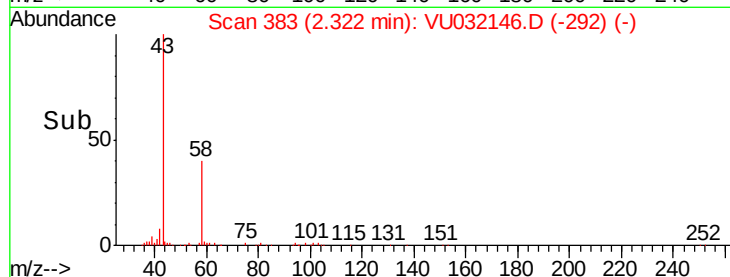
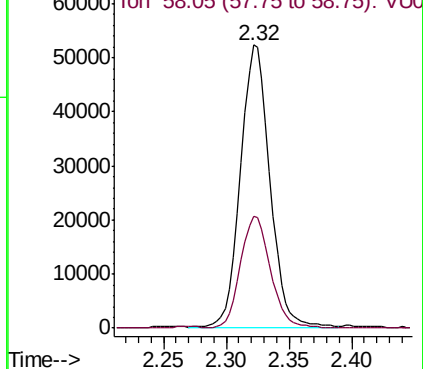
Ion Ratio Lower Upper

43 100

58 40.1 0.0 78.8



Abundance Ion 43.05 (42.75 to 43.75): VU032074.D (-373) (-)



#14

Carbon disulfide

Concen: 4.719 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VU032146.D

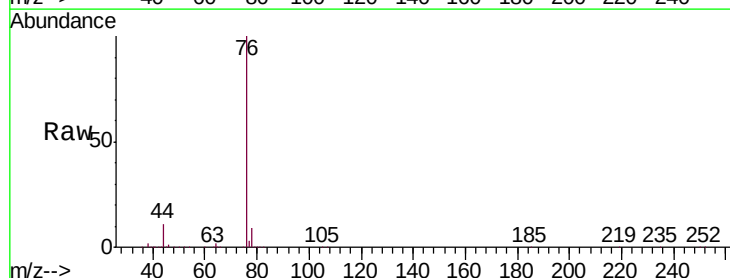
Acq: 20 May 2019 11:30

Tgt Ion: 76 Resp: 221401

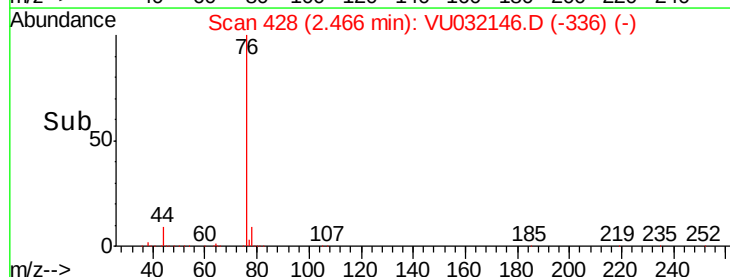
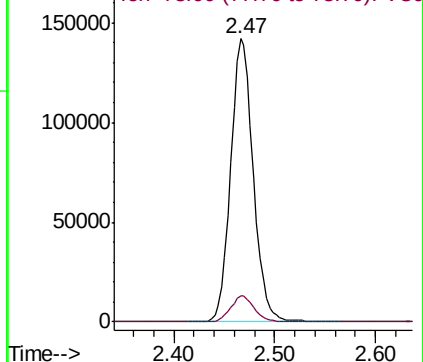
Ion Ratio Lower Upper

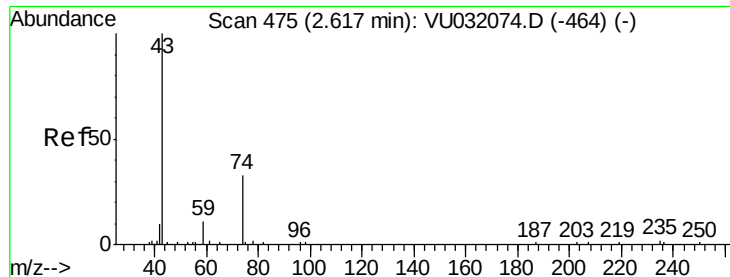
76 100

78 9.4 7.8 11.6



Abundance Ion 76.05 (75.75 to 76.75): VU032074.D (-416) (-)





#15

Methyl Acetate

Concen: 3.958 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

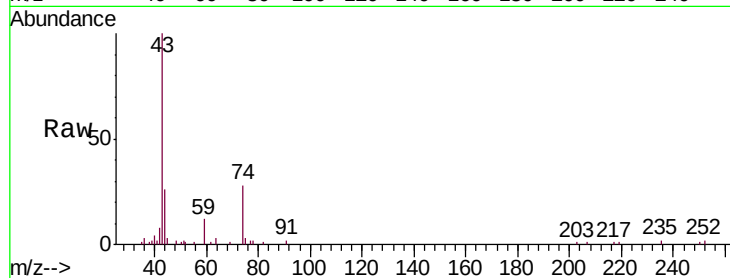
VSTD00507

Tgt Ion: 43 Resp: 22568

Ion Ratio Lower Upper

43 100

74 31.9 26.4 39.6



Abundance Ion 43.05 (42.75 to 43.75): VU032074.D (-464) (-)

Ion 74.05 (73.75 to 74.75): VU032074.D (-464) (-)

2.61

15000

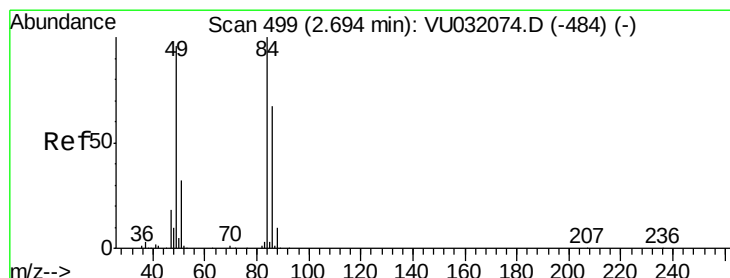
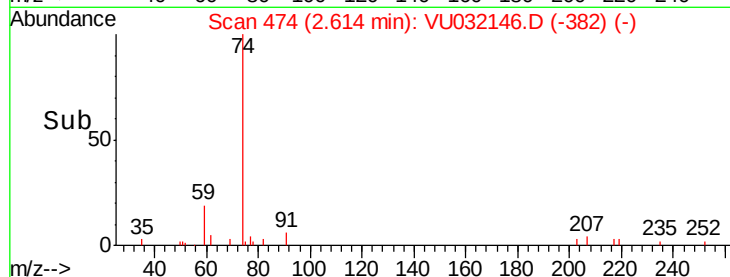
10000

5000

0

Time-->

2.55 2.60 2.65



#16

Methylene chloride

Concen: 4.489 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

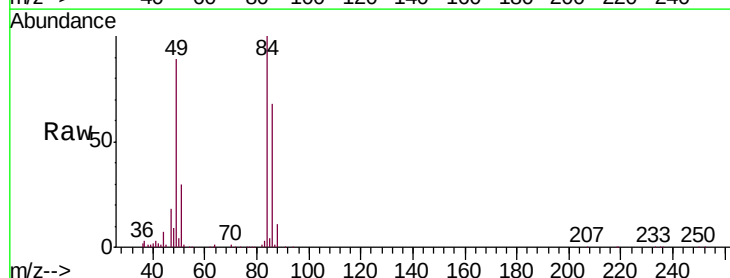
Tgt Ion: 84 Resp: 78821

Ion Ratio Lower Upper

84 100

86 67.9 43.1 80.1

49 89.4 67.7 125.7



Abundance Ion 84.05 (83.75 to 84.75): VU032074.D (-484) (-)

Ion 86.00 (85.70 to 86.70): VU032074.D (-484) (-)

Ion 49.10 (48.80 to 49.80): VU032074.D (-484) (-)

2.69

60000

50000

40000

30000

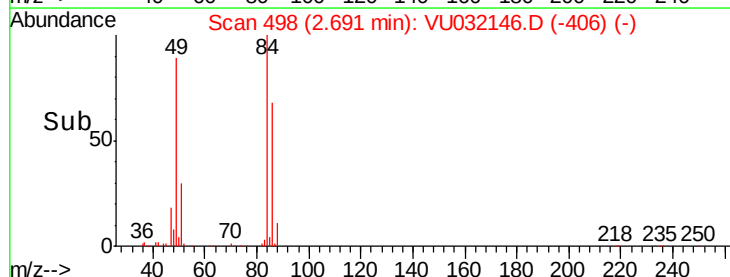
20000

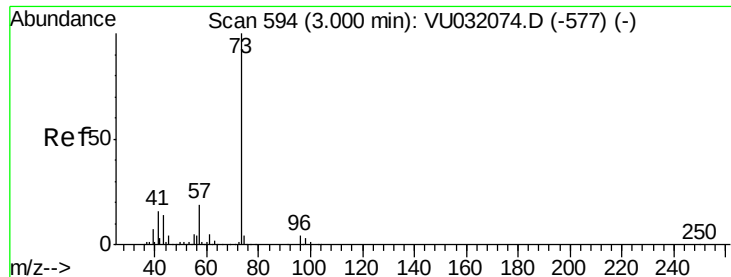
10000

0

Time-->

2.60 2.65 2.70 2.75 2.80

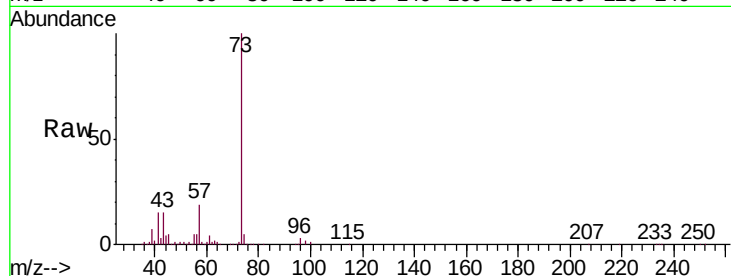




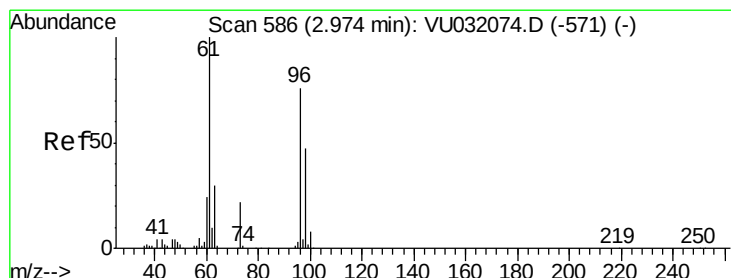
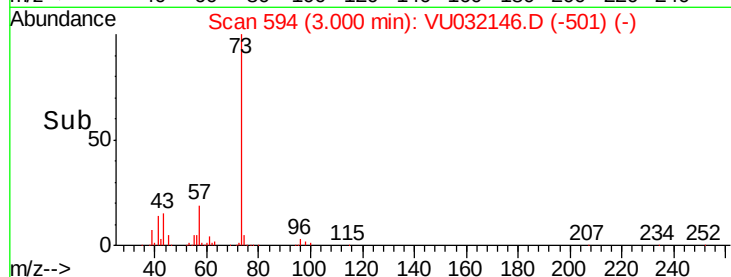
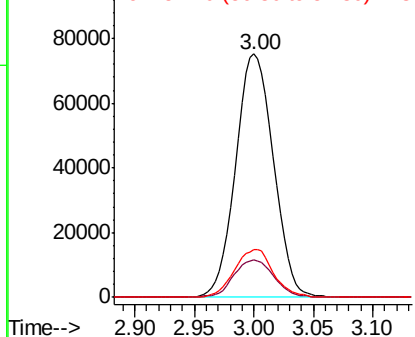
#17
Methyl tert-butyl Ether
Concen: 4.796 ug/L
RT: 3.00 min Scan# 594
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tgt Ion: 73 Resp: 165873
Ion Ratio Lower Upper
73 100
43 16.5 13.0 19.6
57 20.3 17.9 26.9

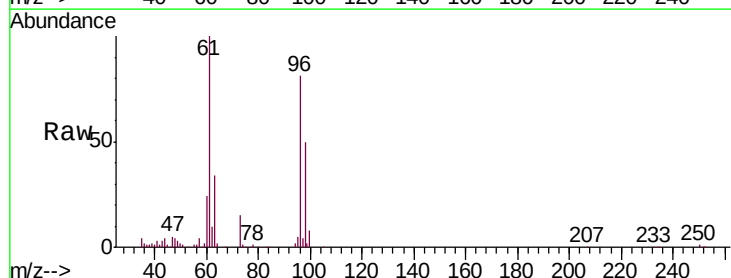


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

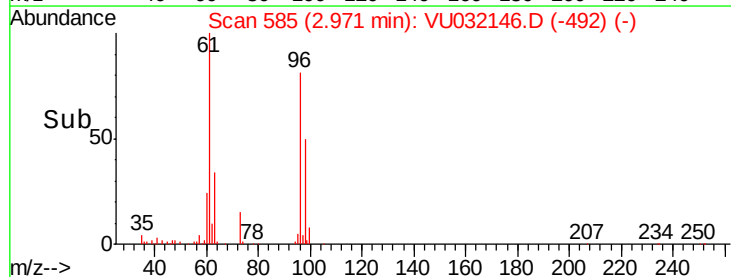
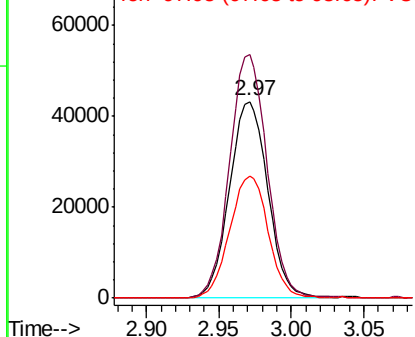


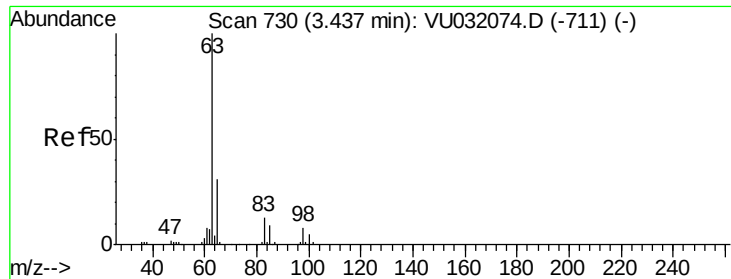
#18
trans-1,2-Dichloroethene
Concen: 5.038 ug/L
RT: 2.97 min Scan# 585
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

Tgt Ion: 96 Resp: 79333
Ion Ratio Lower Upper
96 100
61 124.0 86.5 160.7
98 61.8 43.5 80.9



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

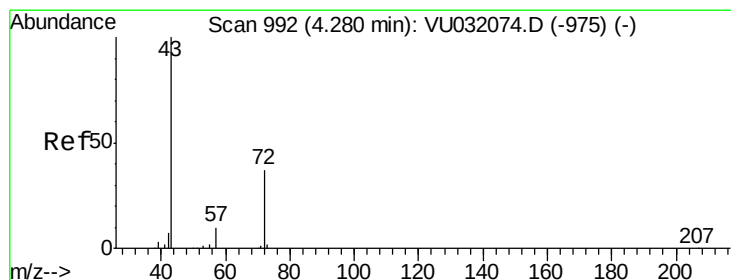
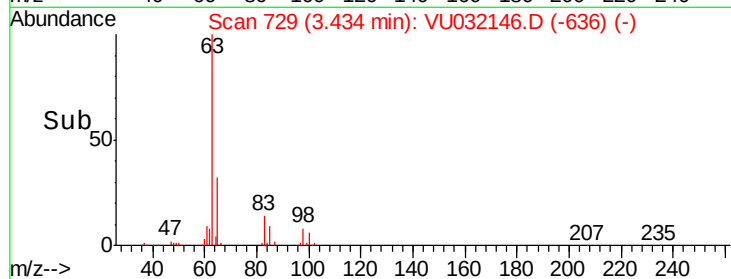
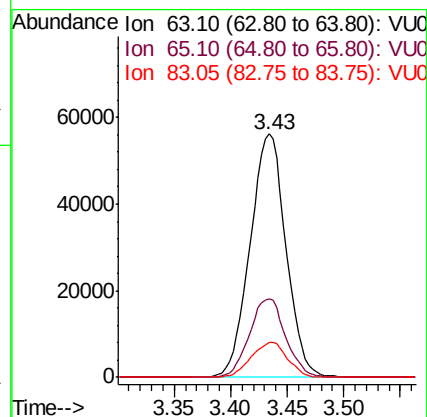
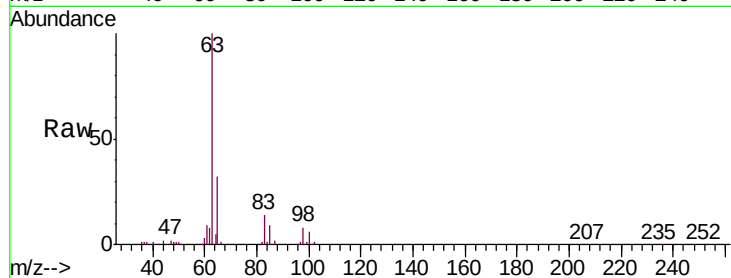




#19
 1,1-Dichloroethane
 Concen: 4.962 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

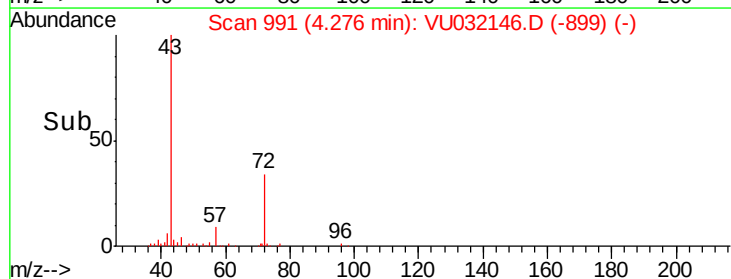
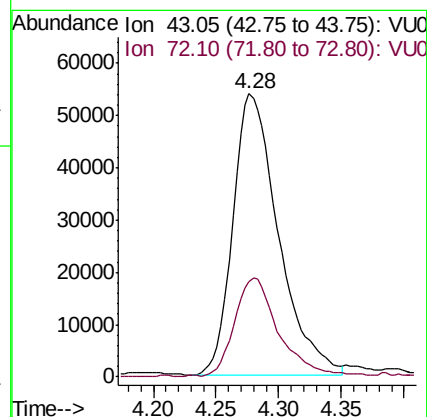
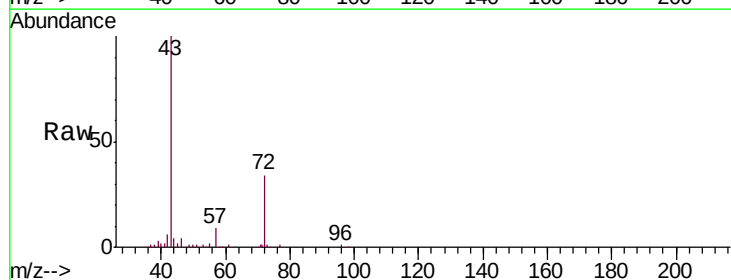
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

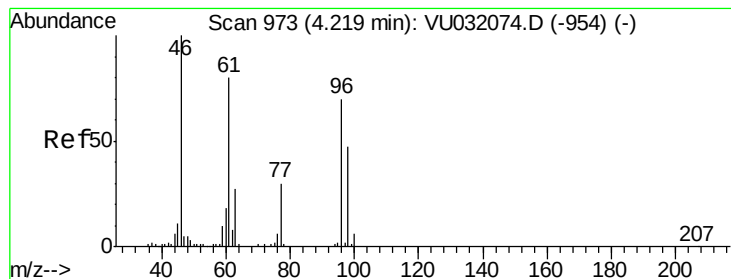
Tgt Ion: 63 Resp: 123958
 Ion Ratio Lower Upper
 63 100
 65 32.5 23.0 42.6
 83 14.2 9.3 17.3



#21
 2-Butanone
 Concen: 47.758 ug/L
 RT: 4.28 min Scan# 991
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion: 43 Resp: 136329
 Ion Ratio Lower Upper
 43 100
 72 33.2 16.8 50.3



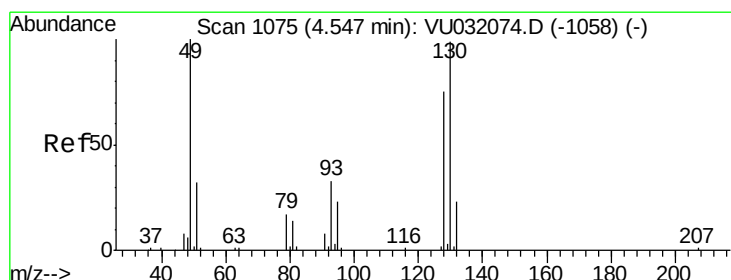
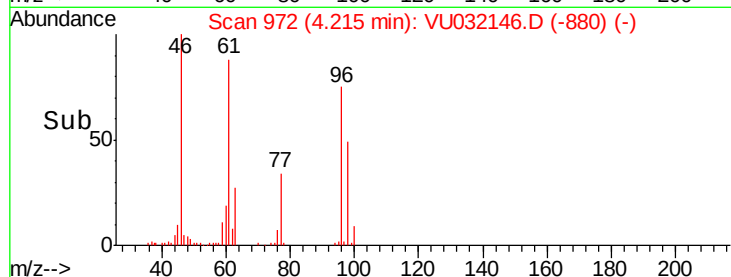
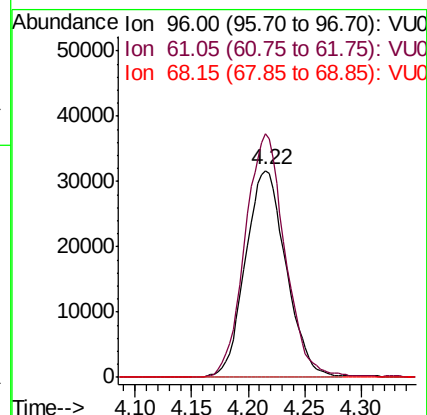
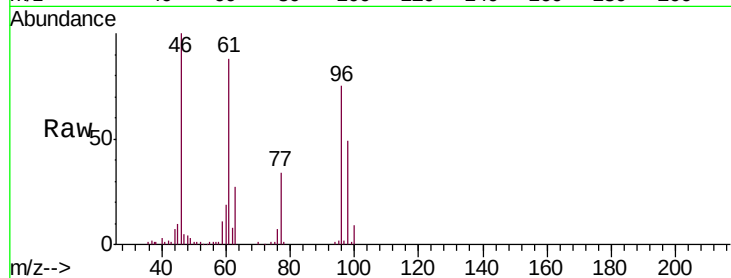


#22

cis-1,2-Dichloroethene
 Concen: 5.120 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

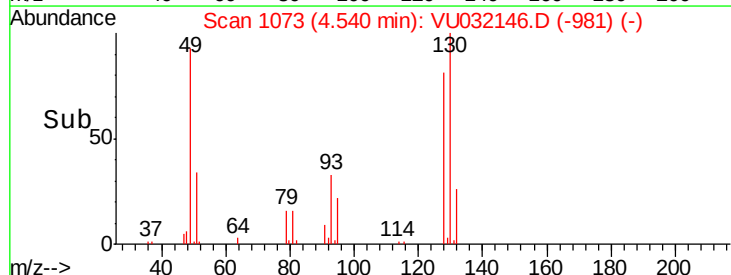
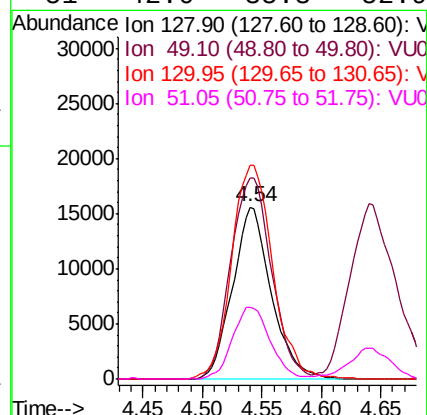
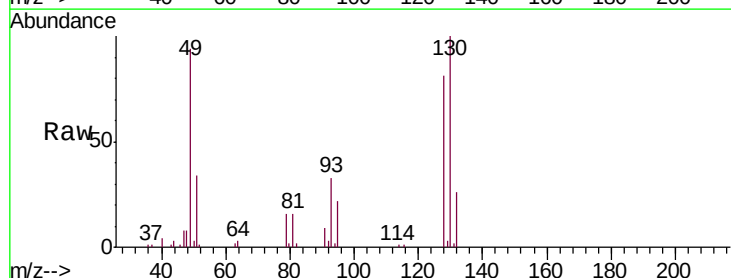
Tgt Ion: 96 Resp: 79317
 Ion Ratio Lower Upper
 96 100
 61 117.6 85.8 159.4
 68 0.0 0.0 0.0

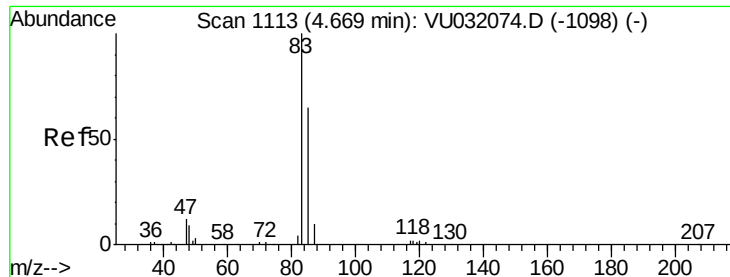


#23

Bromochloromethane
 Concen: 5.274 ug/L
 RT: 4.54 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion: 128 Resp: 35055
 Ion Ratio Lower Upper
 128 100
 49 116.8 92.2 171.2
 130 124.1 90.3 167.7
 51 42.0 35.3 52.9

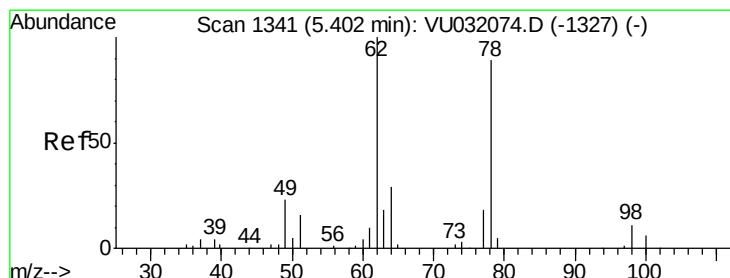
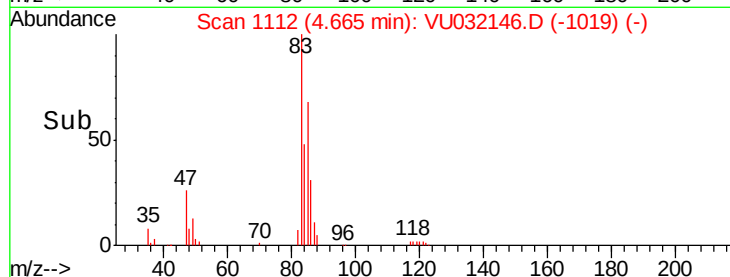
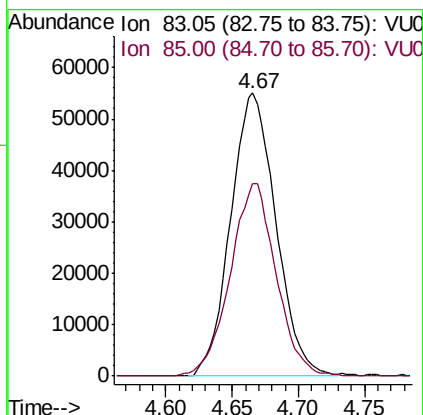
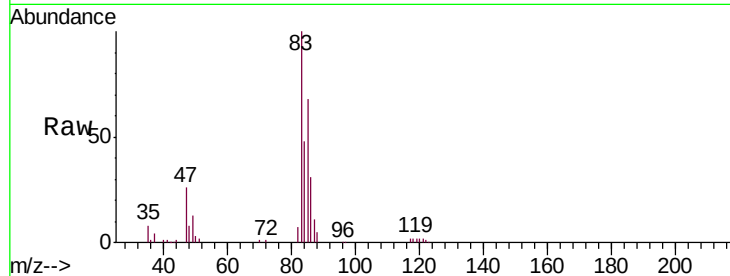




#25
Chloroform
Concen: 4.888 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

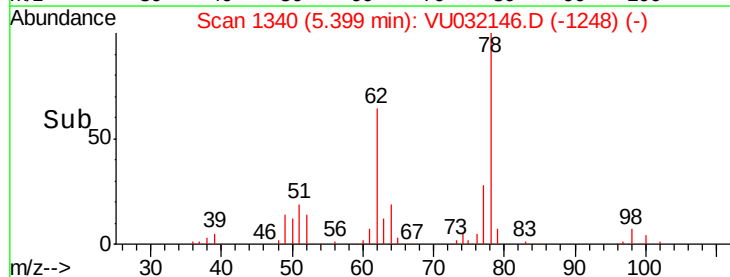
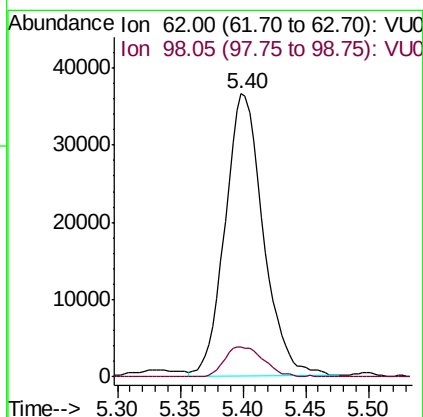
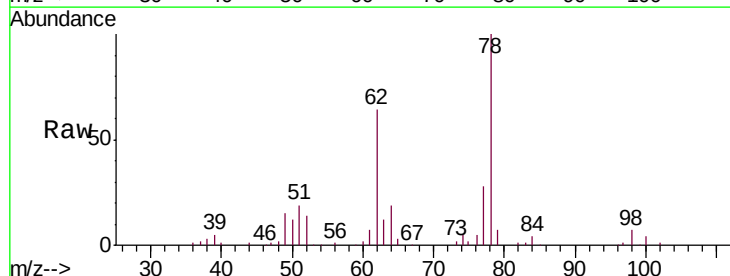
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

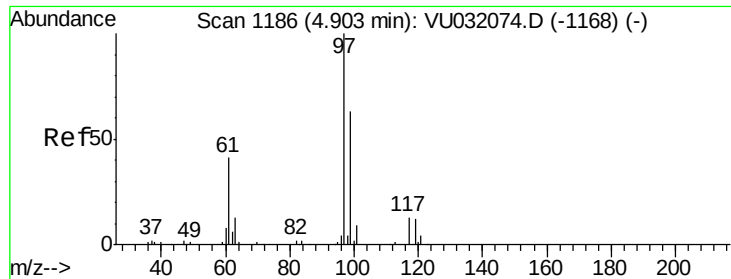
Tgt Ion: 83 Resp: 130554
Ion Ratio Lower Upper
83 100
85 67.9 44.9 83.3



#27
1,2-Dichloroethane
Concen: 5.003 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

Tgt Ion: 62 Resp: 77178
Ion Ratio Lower Upper
62 100
98 10.4 8.0 12.0

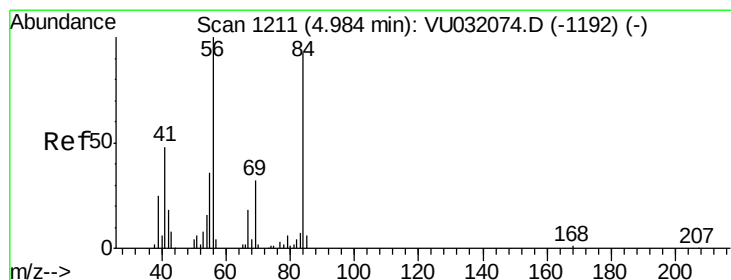
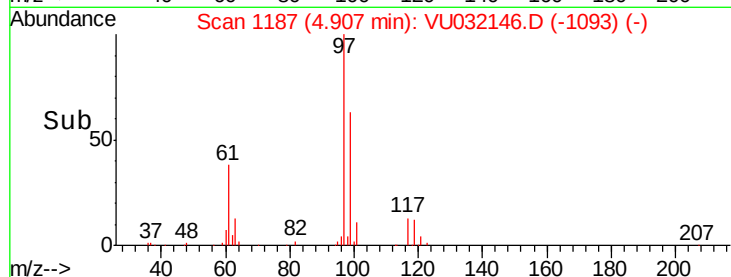
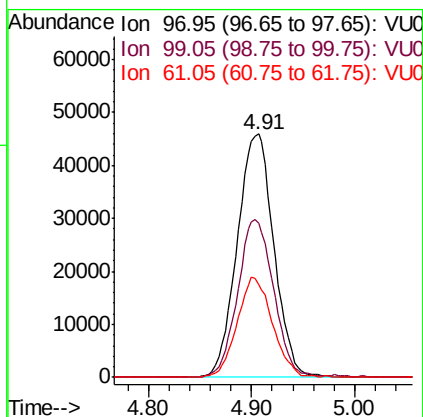
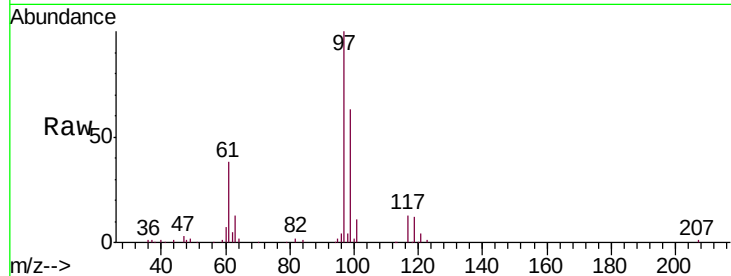




#29
 1,1,1-Trichloroethane
 Concen: 5.195 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

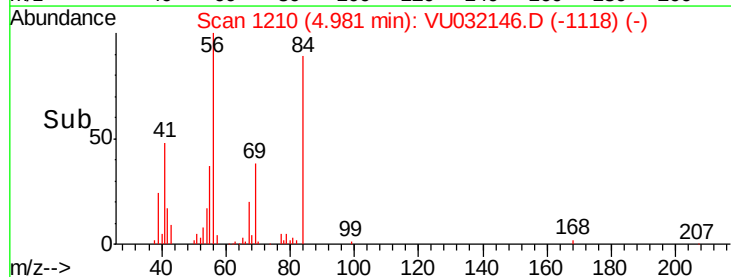
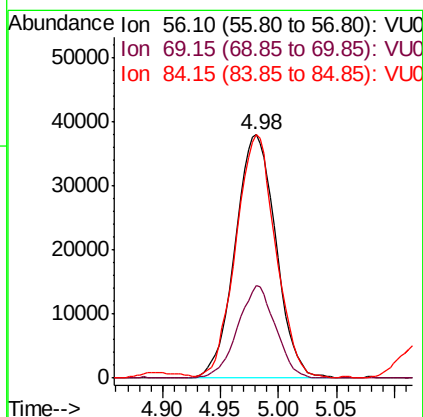
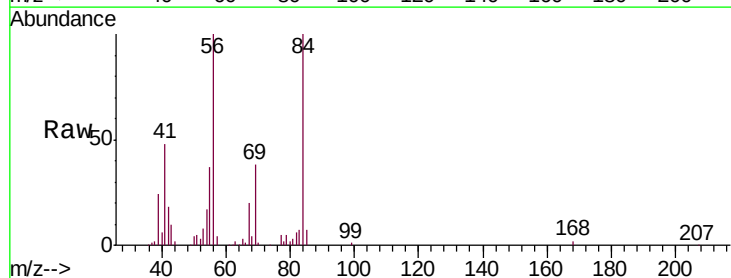
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

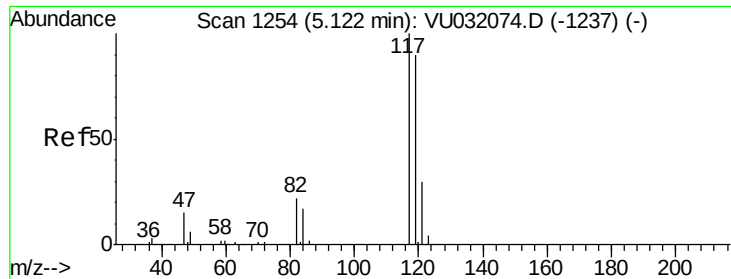
Tgt Ion: 97 Resp: 113515
 Ion Ratio Lower Upper
 97 100
 99 63.6 53.7 80.5
 61 39.5 34.2 51.4



#30
 Cyclohexane
 Concen: 4.601 ug/L
 RT: 4.98 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion: 56 Resp: 92447
 Ion Ratio Lower Upper
 56 100
 69 35.3 26.9 40.3
 84 98.3 76.6 115.0





#31

Carbon tetrachloride

Concen: 5.160 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

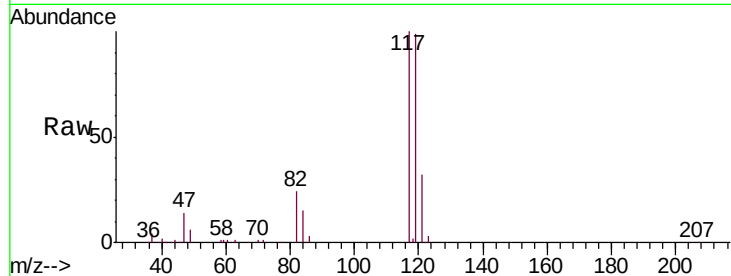
VSTD00507

Tgt Ion:117 Resp: 95855

Ion Ratio Lower Upper

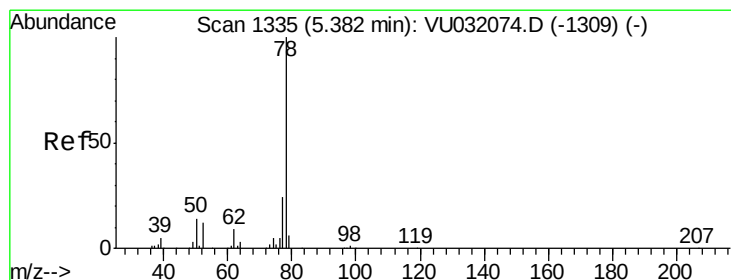
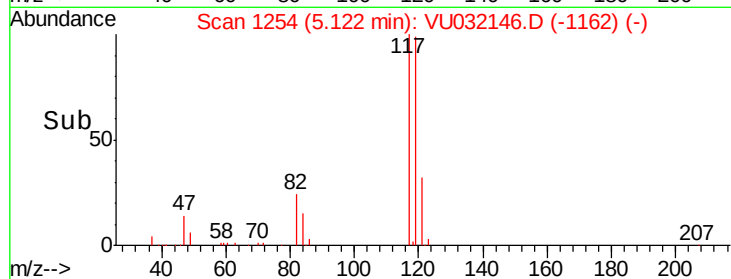
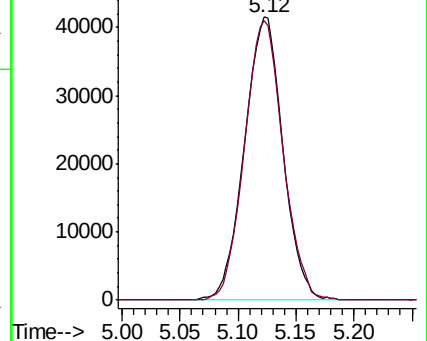
117 100

119 98.7 75.8 113.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.048 ug/L

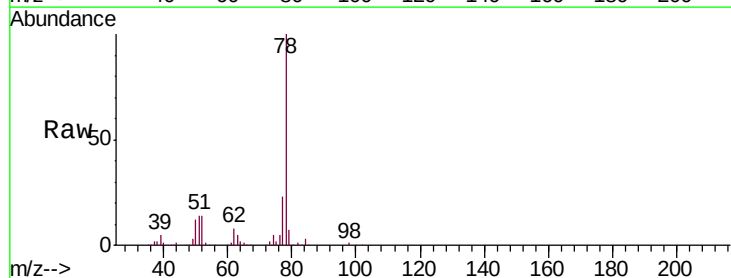
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

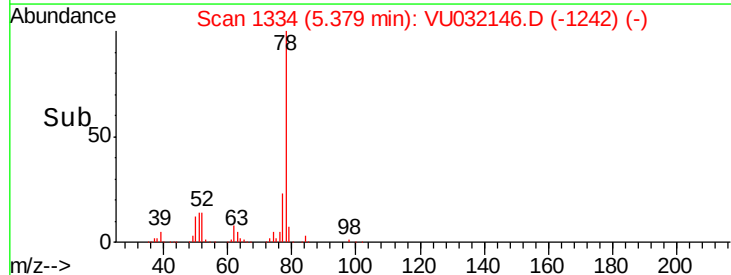
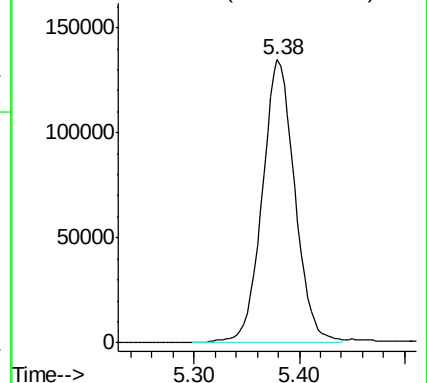
Lab File: VU032146.D

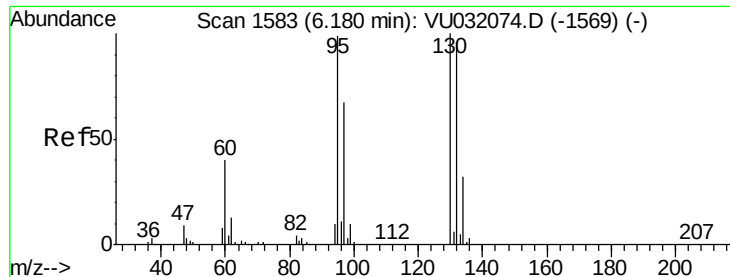
Acq: 20 May 2019 11:30

Tgt Ion: 78 Resp: 290306



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.850 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

Tgt Ion: 95 Resp: 75659

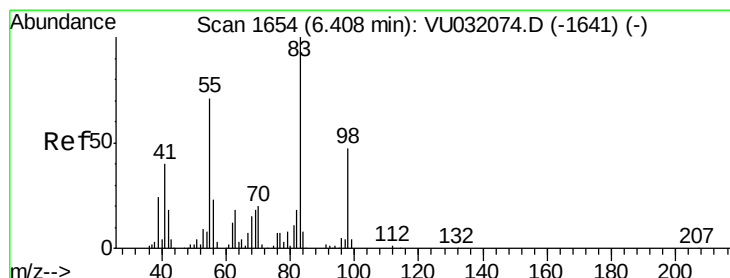
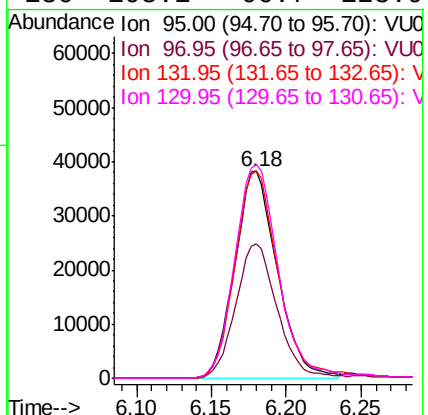
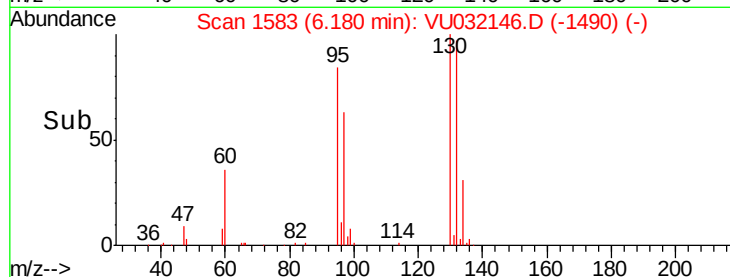
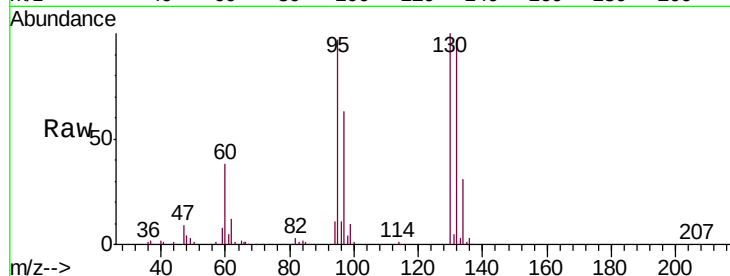
Ion Ratio Lower Upper

95 100

97 64.9 45.2 84.0

132 100.2 66.1 122.7

130 103.1 66.7 123.9



#35

Methylcyclohexane

Concen: 4.848 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

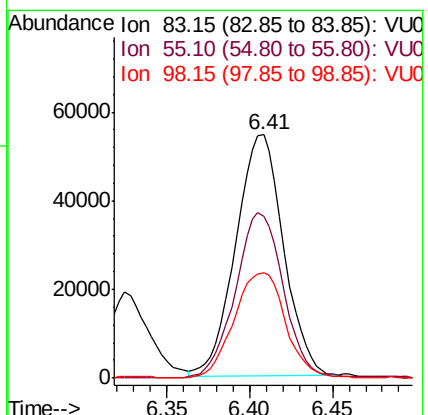
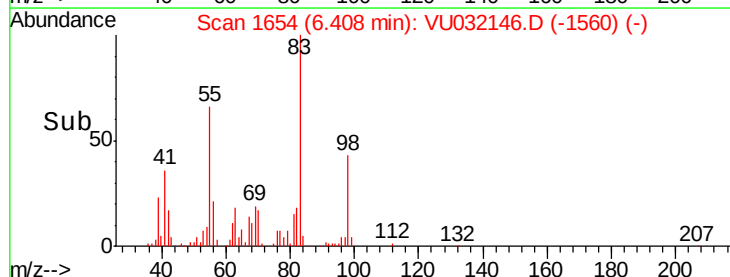
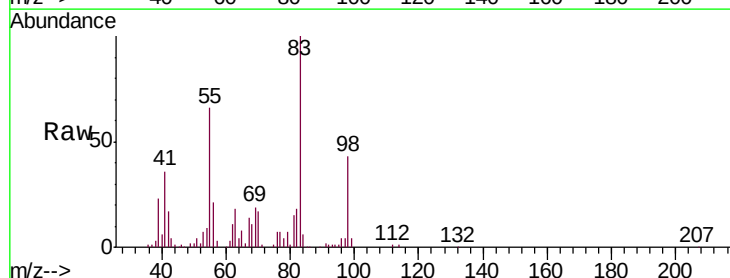
Tgt Ion: 83 Resp: 108905

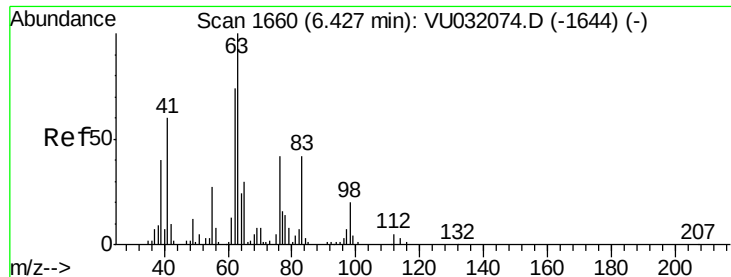
Ion Ratio Lower Upper

83 100

55 69.1 59.7 89.5

98 47.3 36.8 55.2





#37

1,2-Dichloropropane

Concen: 4.739 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

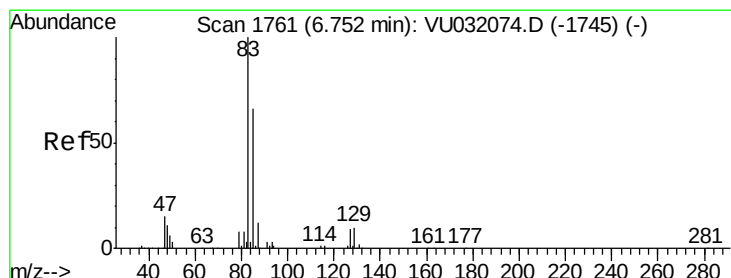
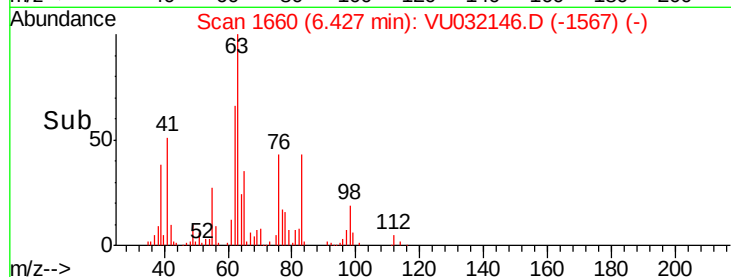
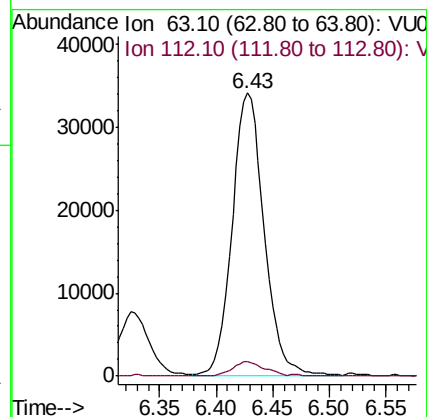
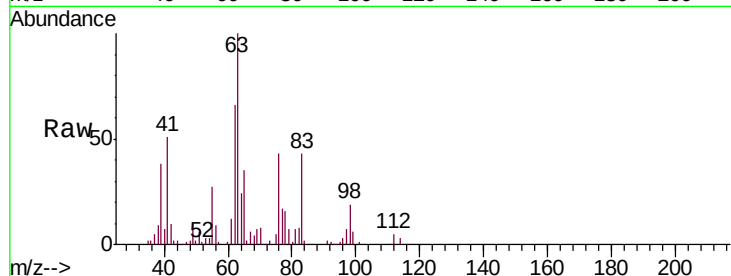
VSTD00507

Tgt Ion: 63 Resp: 66640

Ion Ratio Lower Upper

63 100

112 5.2 3.8 5.6



#38

Bromodichloromethane

Concen: 4.887 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

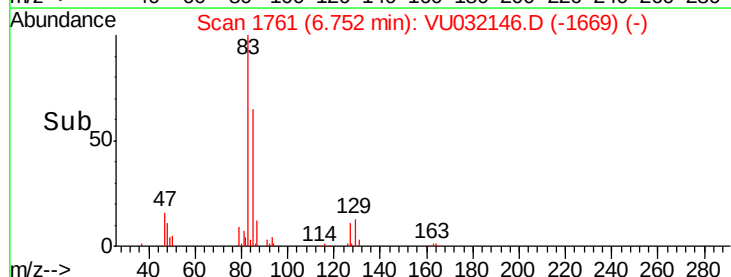
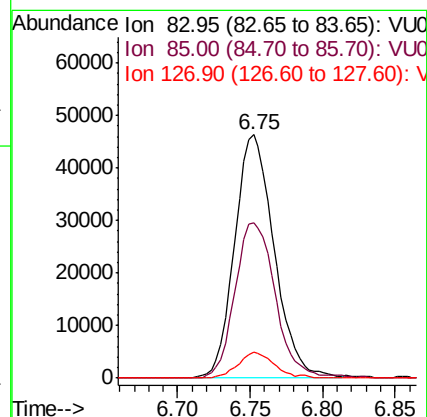
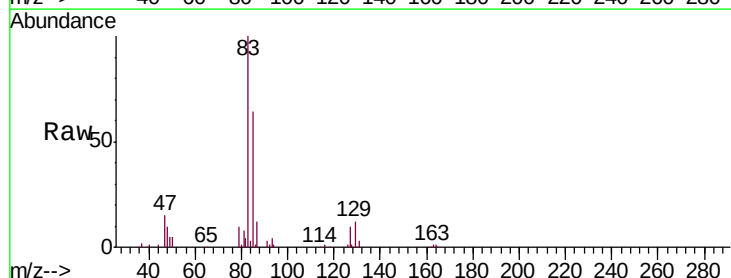
Tgt Ion: 83 Resp: 87886

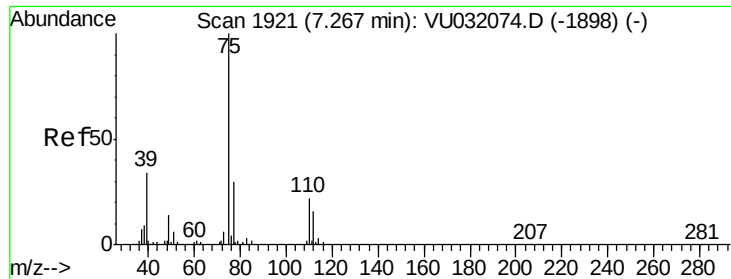
Ion Ratio Lower Upper

83 100

85 63.9 45.5 84.5

127 10.4 6.3 9.5#

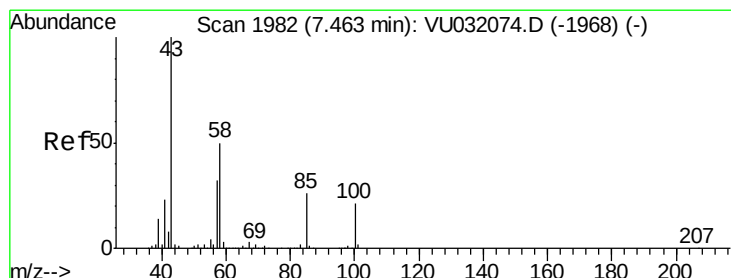
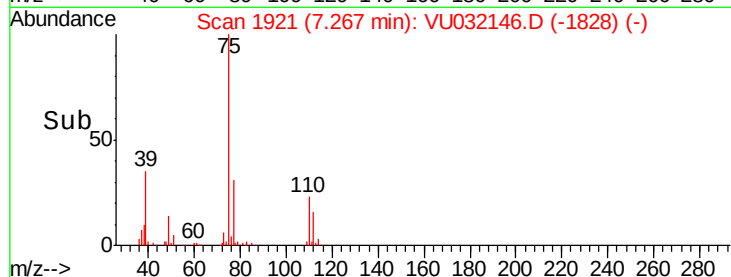
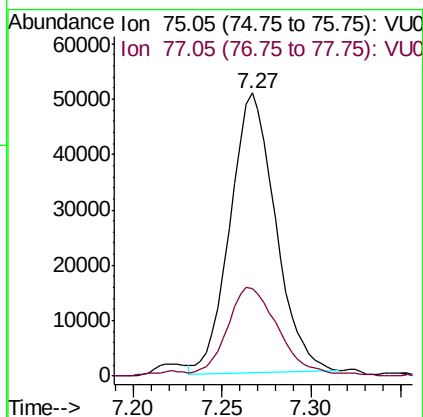
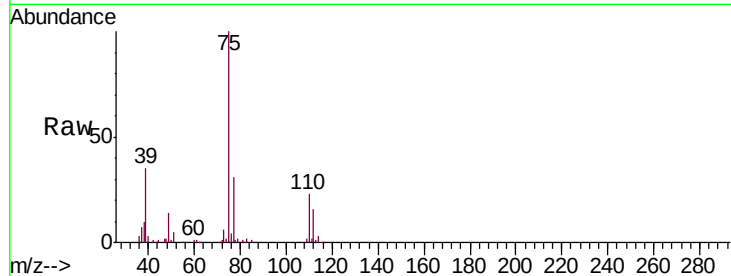




#39
 cis-1,3-Dichloropropene
 Concen: 4.602 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

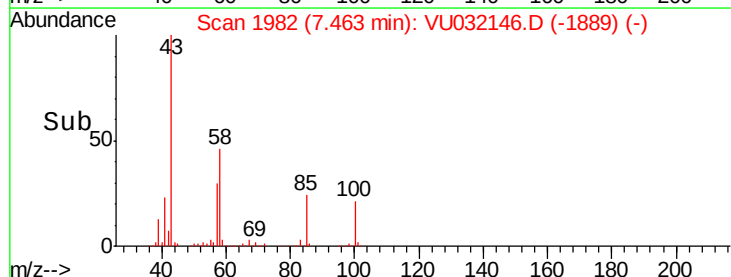
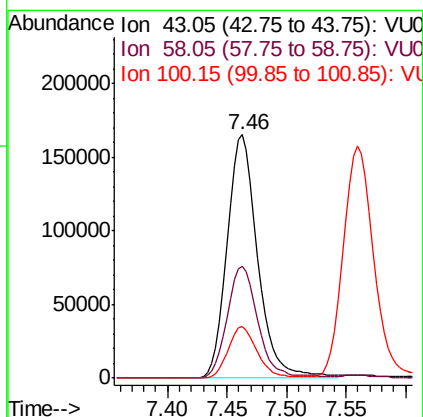
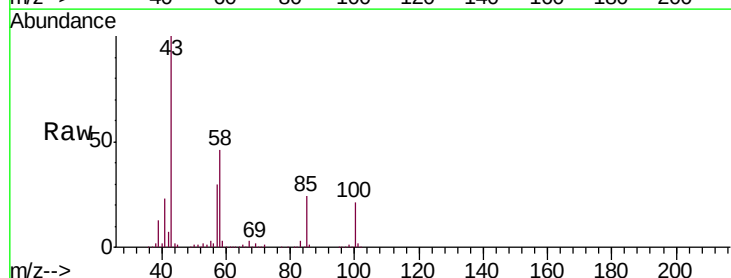
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

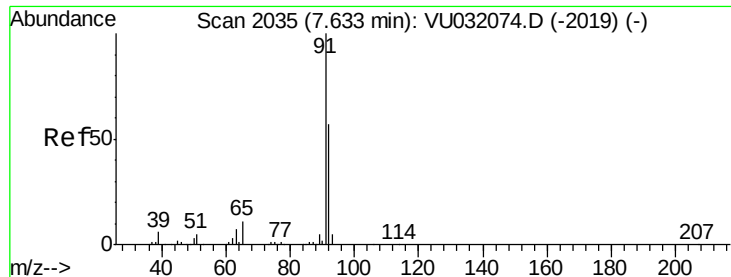
Tgt Ion: 75 Resp: 89472
 Ion Ratio Lower Upper
 75 100
 77 31.1 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 45.254 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion: 43 Resp: 294981
 Ion Ratio Lower Upper
 43 100
 58 46.5 37.3 55.9
 100 20.4 15.5 23.3





#42

Toluene

Concen: 5.336 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

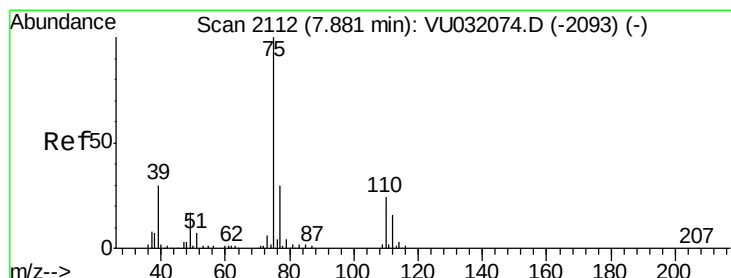
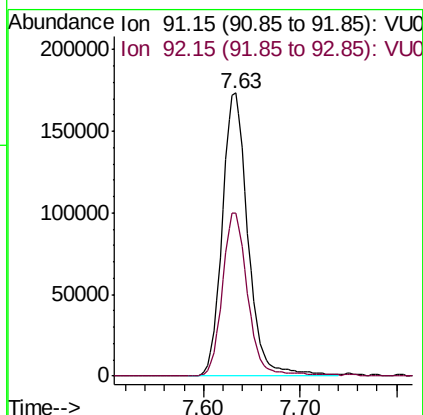
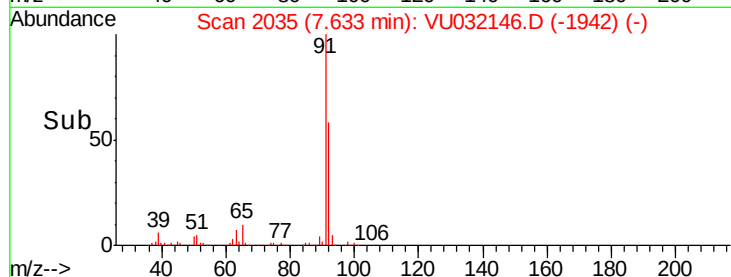
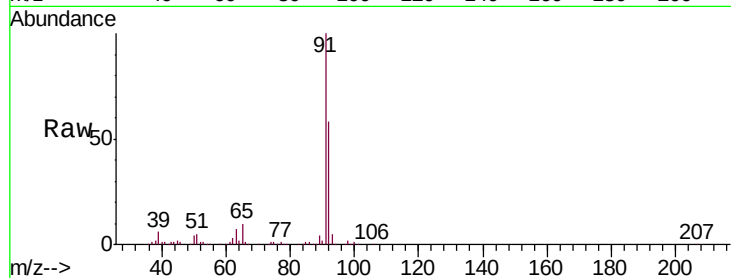
VSTD00507

Tgt Ion: 91 Resp: 321411

Ion Ratio Lower Upper

91 100

92 57.8 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 5.228 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU032146.D

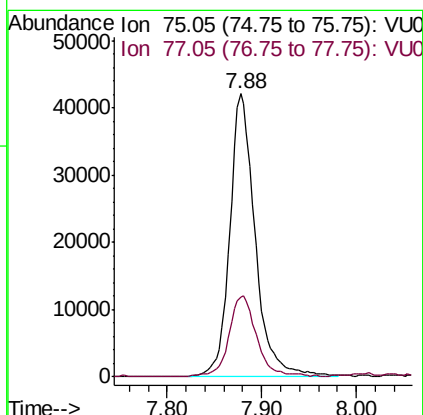
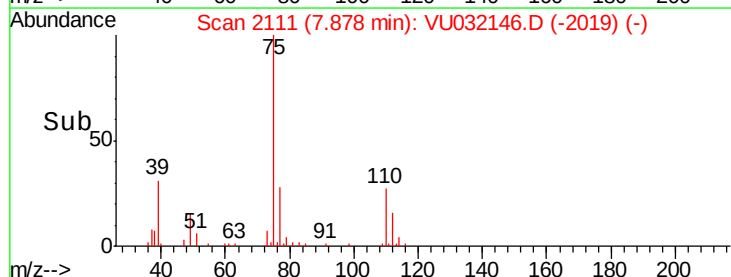
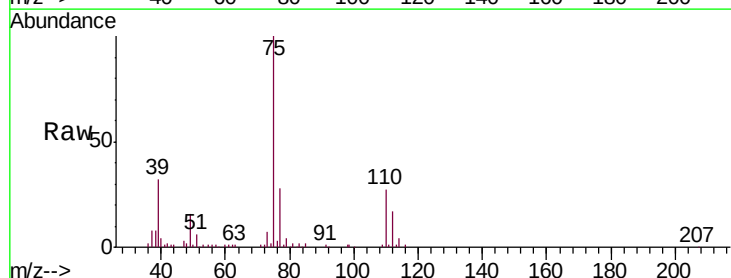
Acq: 20 May 2019 11:30

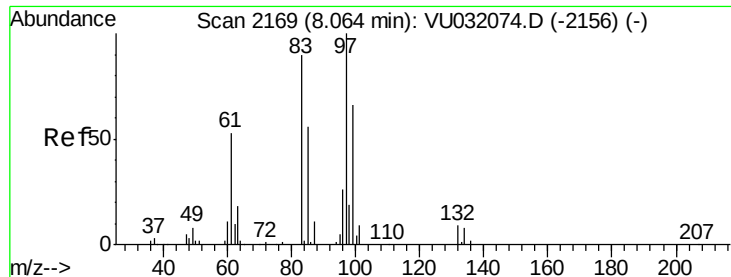
Tgt Ion: 75 Resp: 79035

Ion Ratio Lower Upper

75 100

77 28.4 21.0 39.0

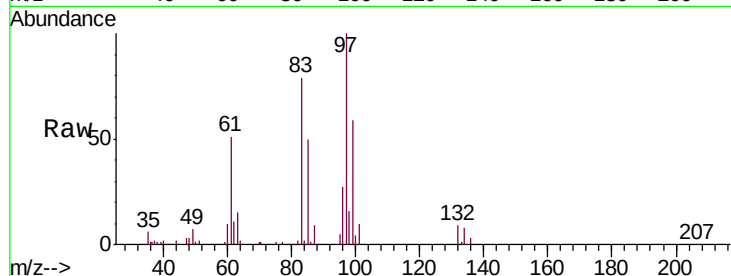




#45
 1,1,2-Trichloroethane
 Concen: 5.012 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion:	97	Resp:	52054
Ion	Ratio	Lower	Upper
97	100		
99	58.7	40.7	75.7
83	78.5	59.6	110.8
85	50.3	37.3	69.3



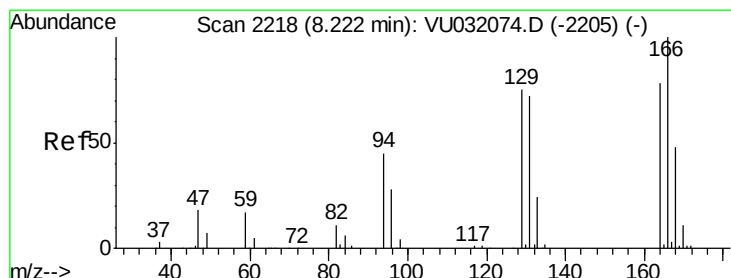
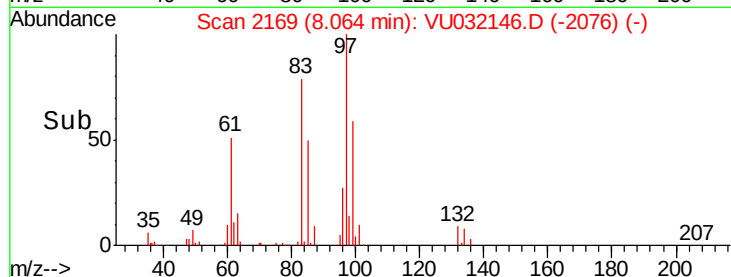
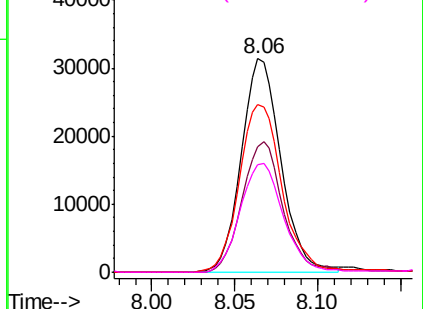
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

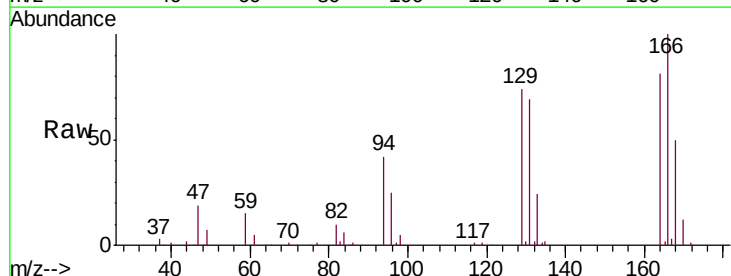
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.414 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion:	164	Resp:	63139
Ion	Ratio	Lower	Upper
164	100		
129	90.8	70.3	130.5
131	85.4	64.5	119.9
166	123.0	92.3	171.5



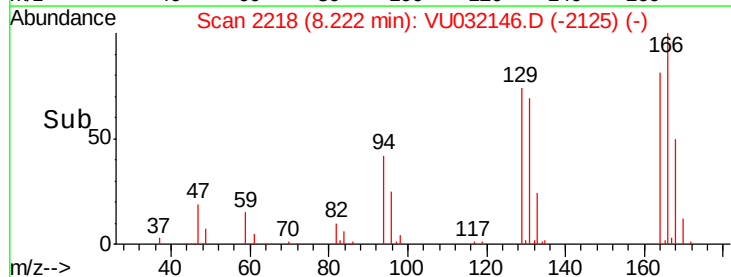
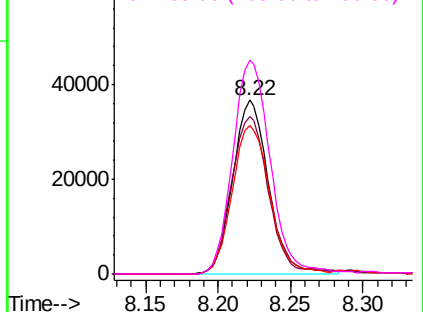
Abundance

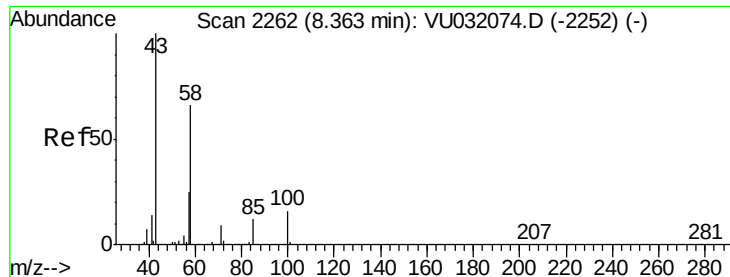
Ion 163.90 (163.60 to 164.60): V

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

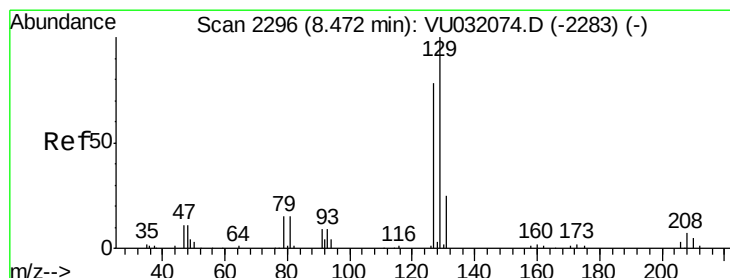
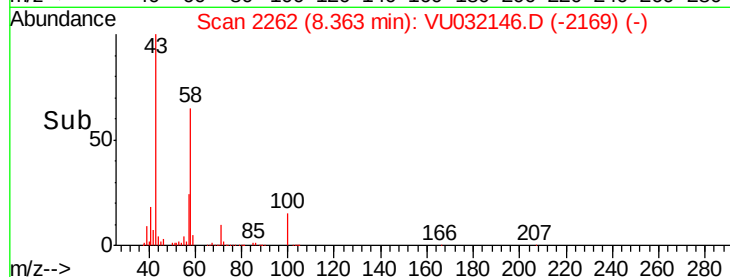
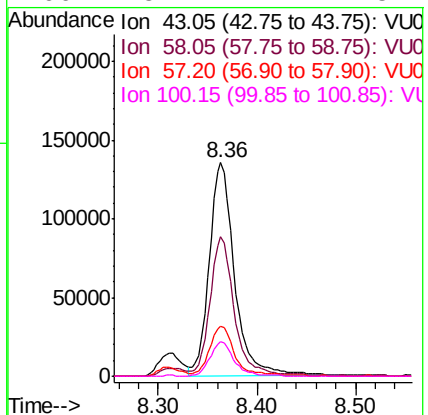
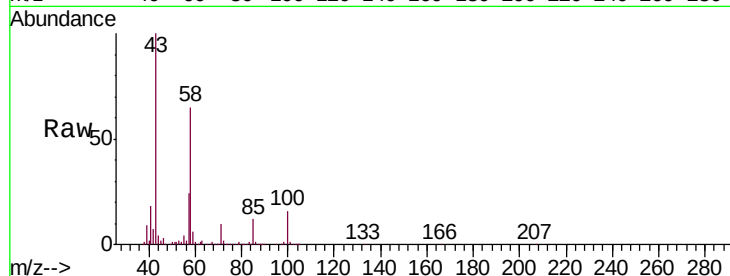




#48
2-Hexanone
Concen: 47.759 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

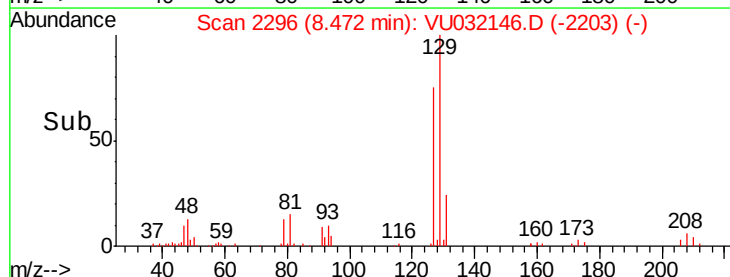
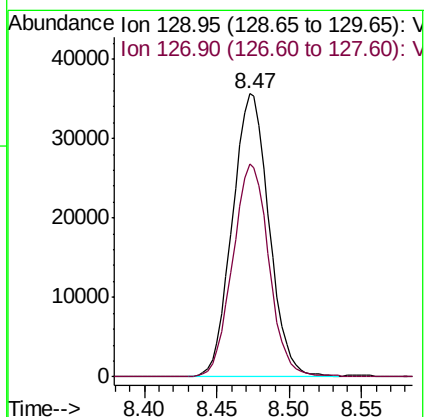
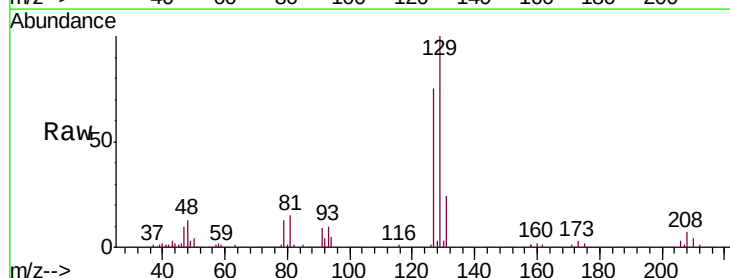
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

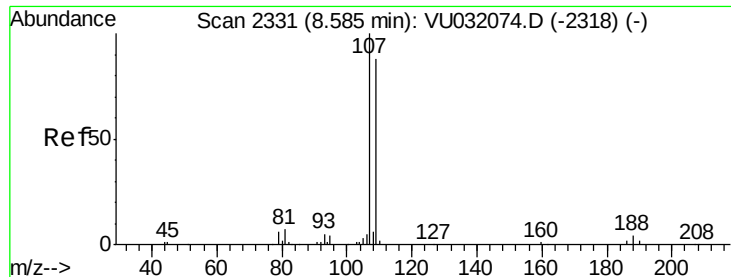
Tgt Ion:	43	Resp:	241471
Ion	Ratio	Lower	Upper
43	100		
58	60.0	51.6	77.4
57	23.0	18.4	27.6
100	15.2	12.2	18.4



#49
Dibromochloromethane
Concen: 5.237 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

Tgt Ion:	129	Resp:	62691
Ion	Ratio	Lower	Upper
129	100		
127	75.2	55.2	102.6





#50

1,2-Dibromoethane

Concen: 4.826 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

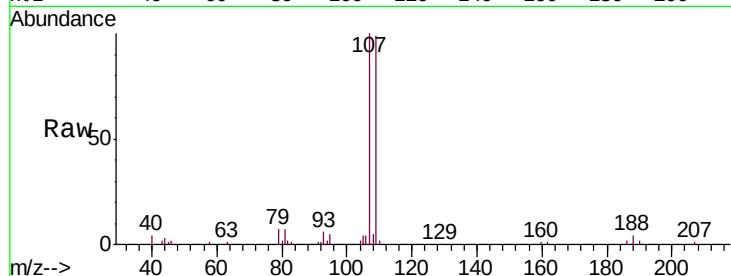
Tgt Ion:107 Resp: 48038

Ion Ratio Lower Upper

107 100

109 98.8 67.8 125.8

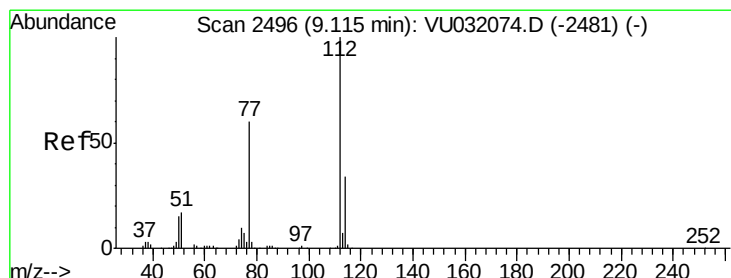
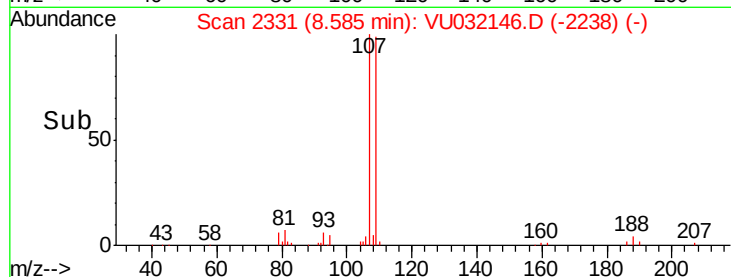
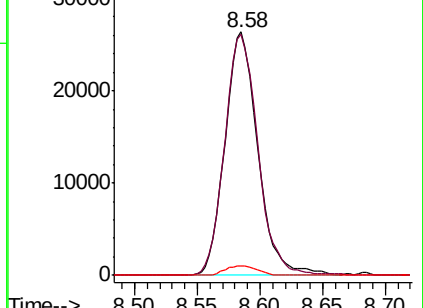
188 3.9 3.5 5.3



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: 5.297 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

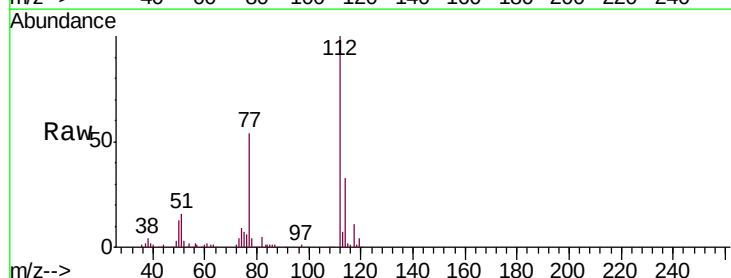
Tgt Ion:112 Resp: 201520

Ion Ratio Lower Upper

112 100

114 32.6 21.6 40.2

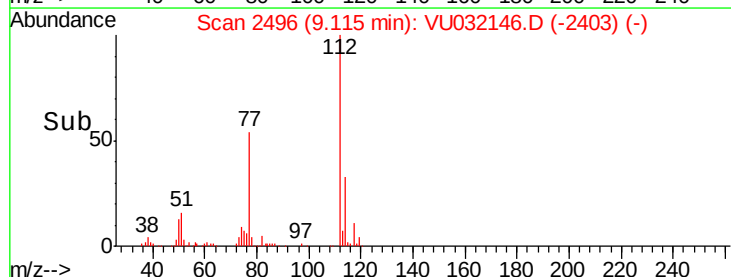
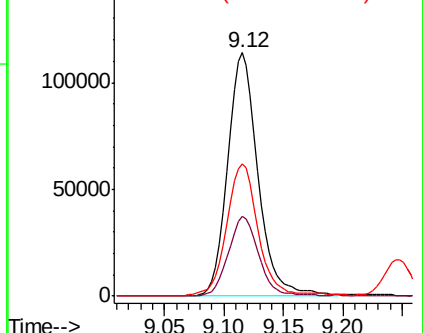
77 54.3 50.3 75.5

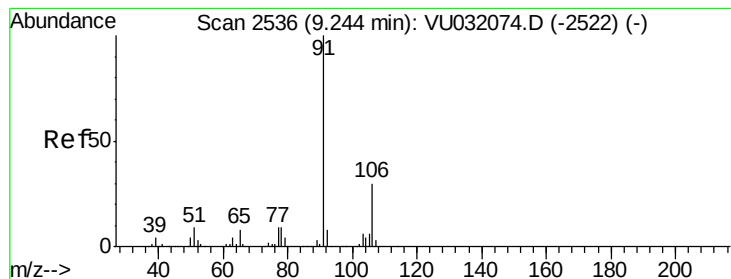


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.031 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

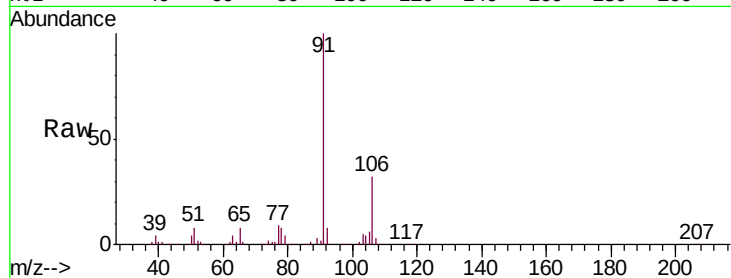
VSTD00507

Tgt Ion: 91 Resp: 304000

Ion Ratio Lower Upper

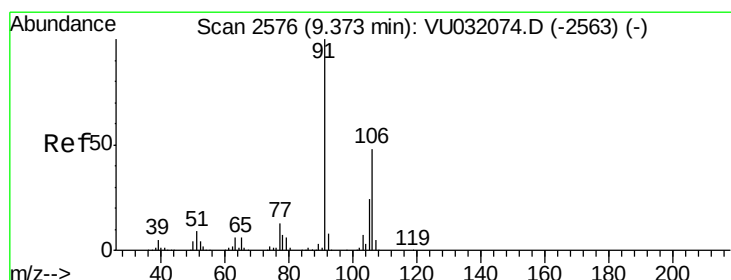
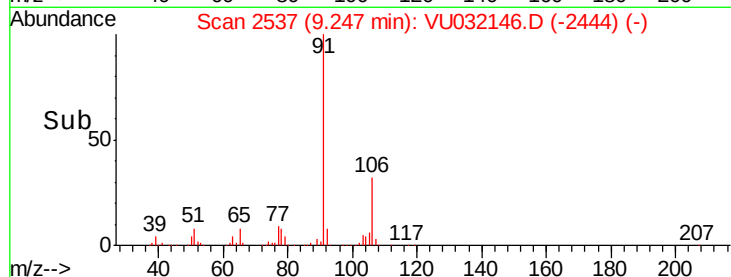
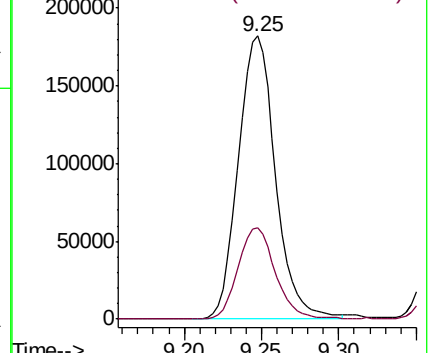
91 100

106 32.4 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-Xylene

Concen: 5.293 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU032146.D

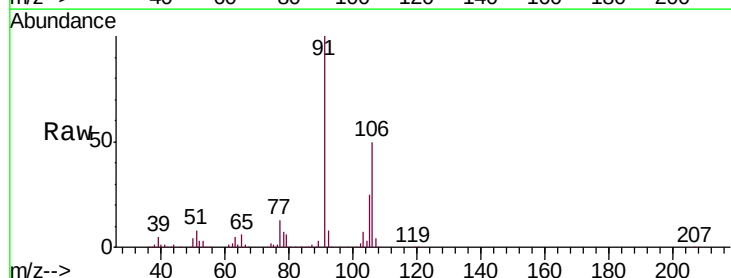
Acq: 20 May 2019 11:30

Tgt Ion: 106 Resp: 121480

Ion Ratio Lower Upper

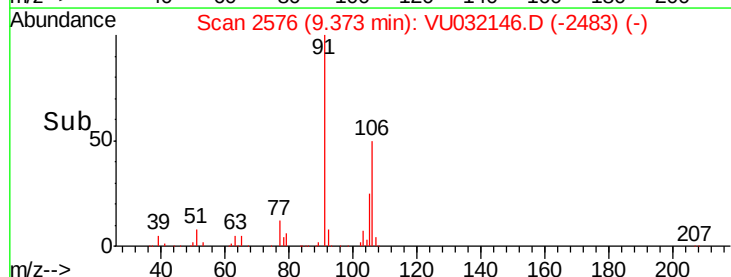
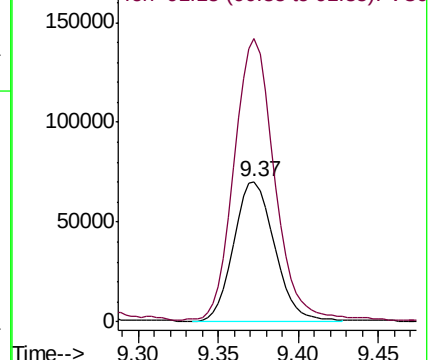
106 100

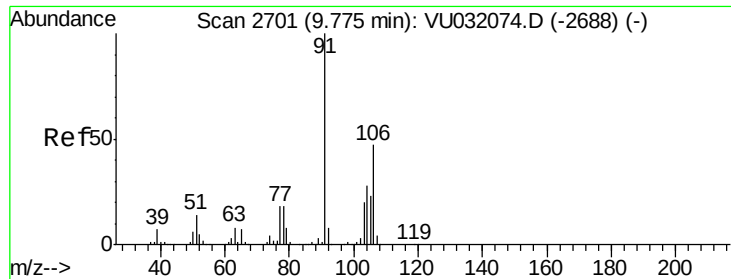
91 201.3 143.1 265.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

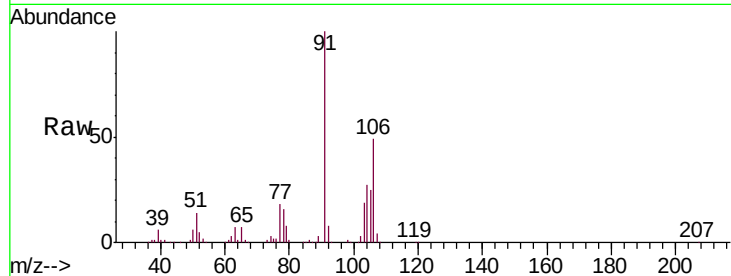




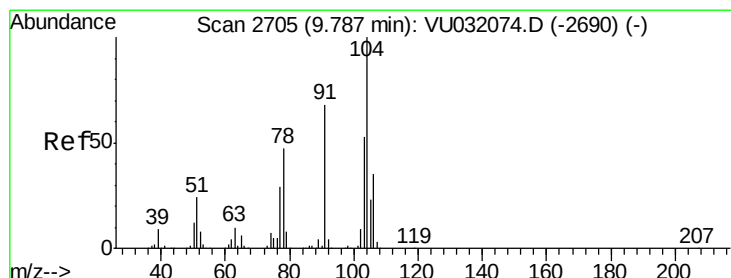
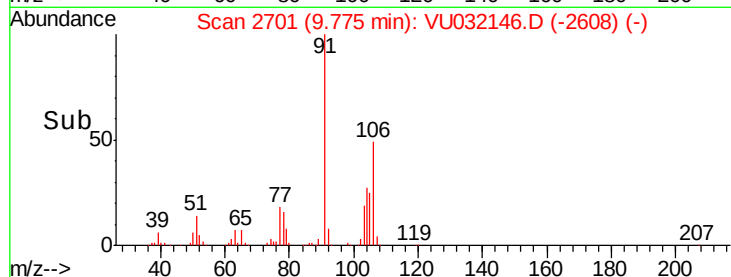
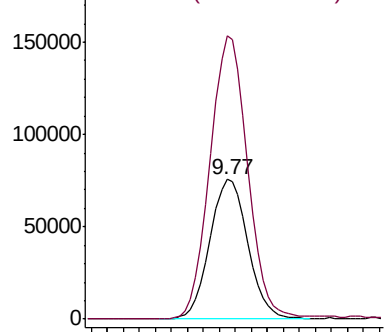
#54
o-Xylene
Concen: 5.552 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tgt Ion:106 Resp: 122828
Ion Ratio Lower Upper
106 100
91 202.8 152.9 283.9

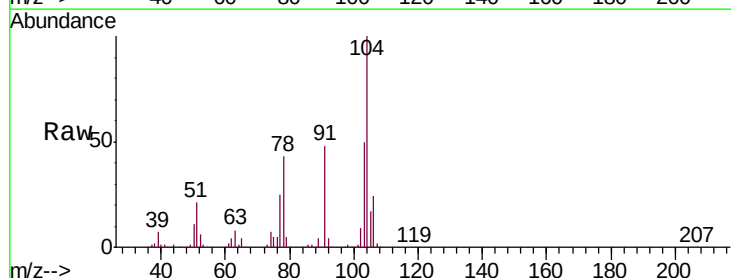


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

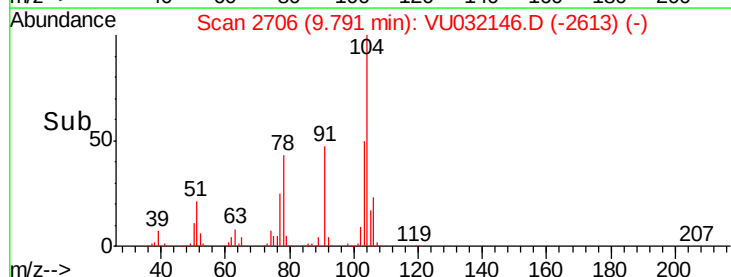
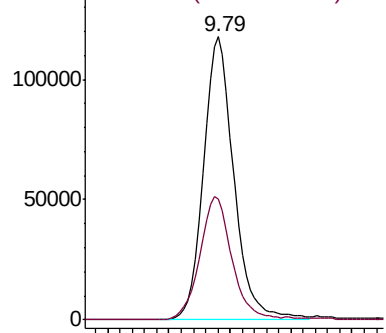


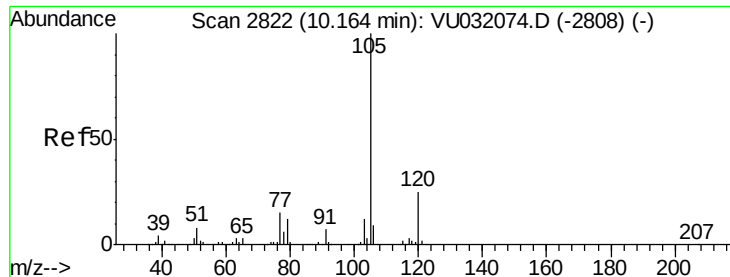
#55
Styrene
Concen: 5.433 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU032146.D
Acq: 20 May 2019 11:30

Tgt Ion:104 Resp: 203824
Ion Ratio Lower Upper
104 100
78 42.7 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.370 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

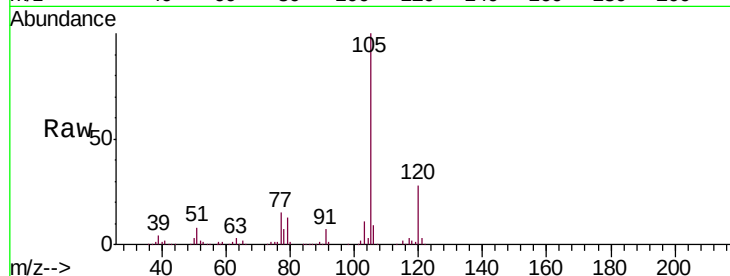
Tgt Ion: 105 Resp: 303605

Ion Ratio Lower Upper

105 100

120 26.5 20.7 31.1

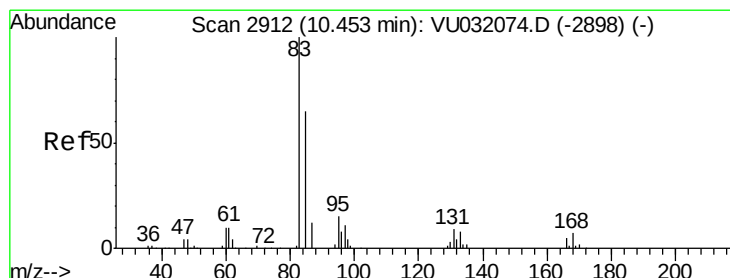
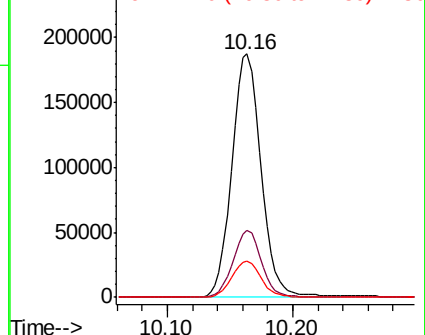
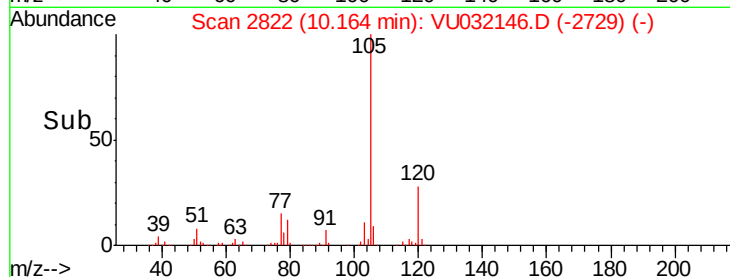
77 14.9 12.3 18.5



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: 4.771 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

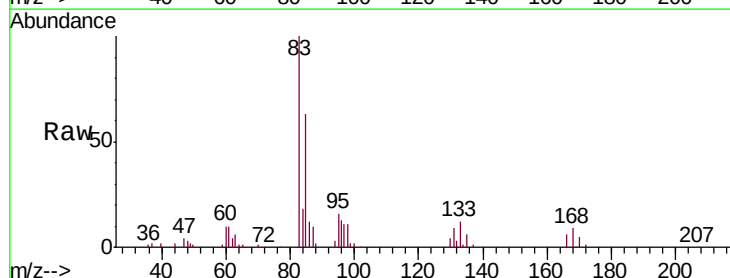
Tgt Ion: 83 Resp: 61831

Ion Ratio Lower Upper

83 100

85 63.2 44.3 82.3

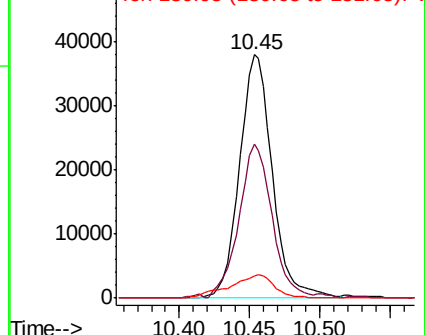
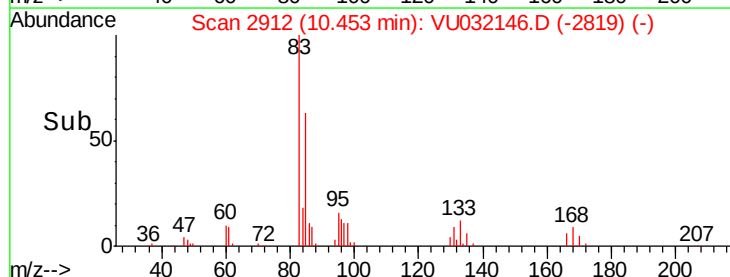
131 9.0 7.4 11.2

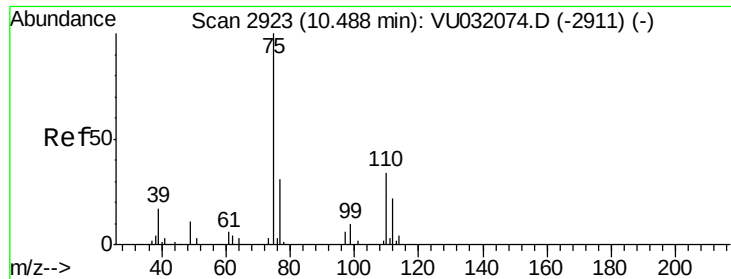


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

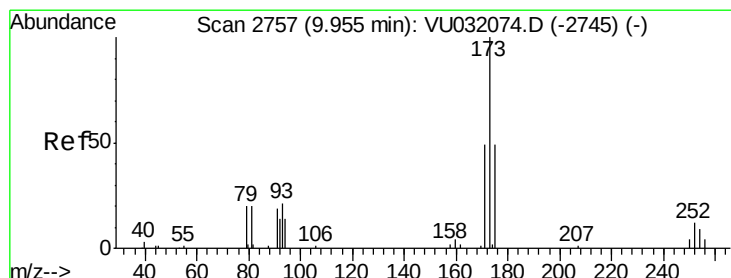
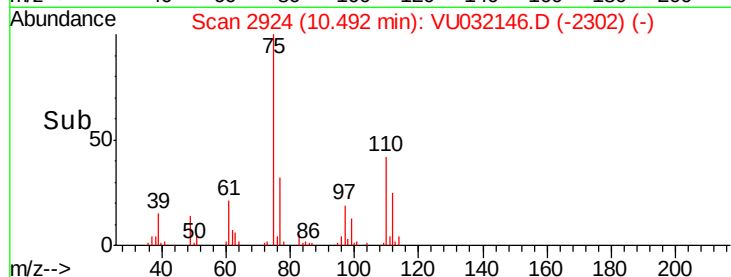
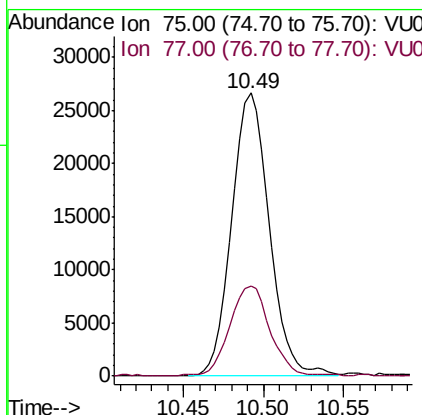
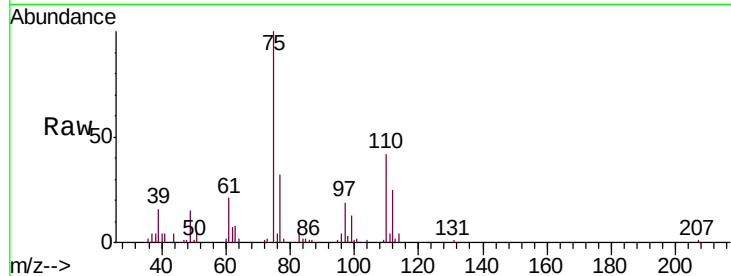




#59
 1,2,3-Trichloropropane
 Concen: 4.784 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

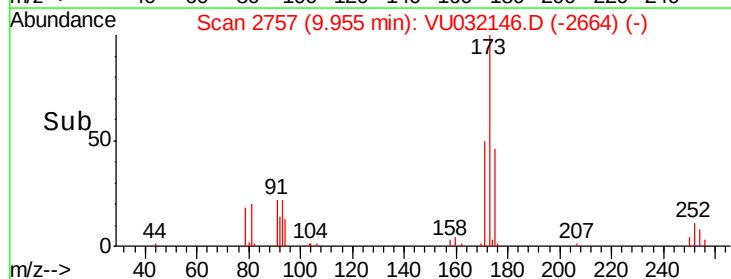
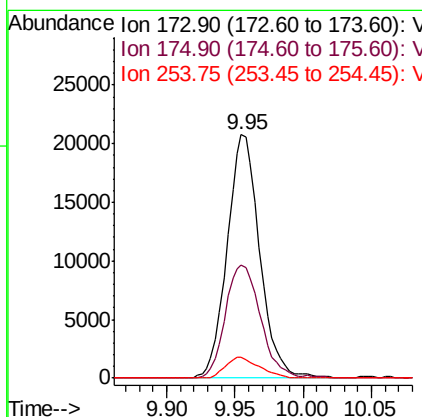
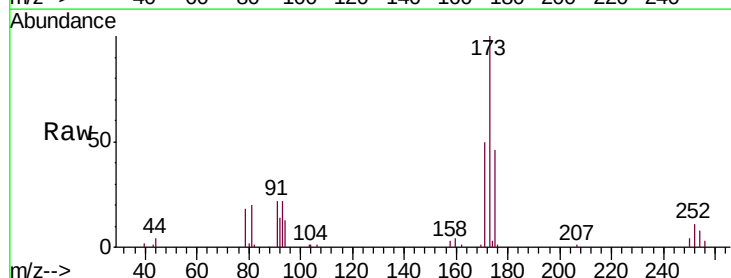
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

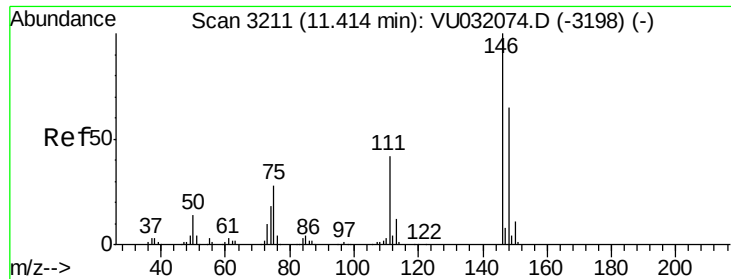
Tgt Ion: 75 Resp: 42725
 Ion Ratio Lower Upper
 75 100
 77 33.8 26.2 39.2



#61
 Bromoform
 Concen: 5.028 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion: 173 Resp: 34403
 Ion Ratio Lower Upper
 173 100
 175 49.7 38.0 57.0
 254 8.9 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.306 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

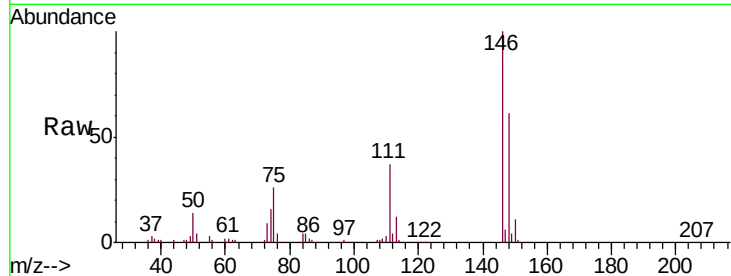
Tgt Ion:146 Resp: 150714

Ion Ratio Lower Upper

146 100

111 37.2 27.7 51.5

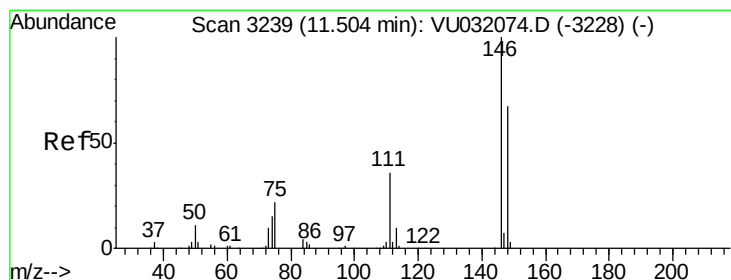
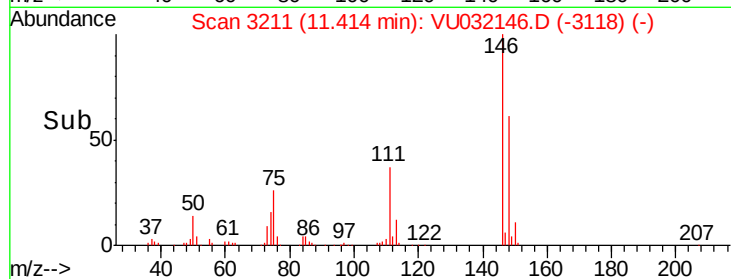
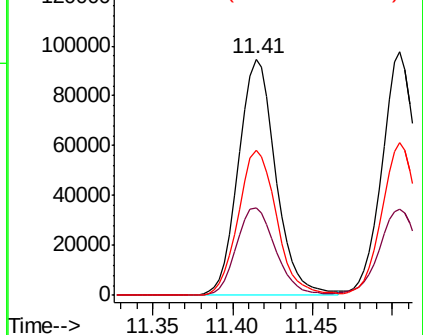
148 61.2 44.9 83.3



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: 5.210 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

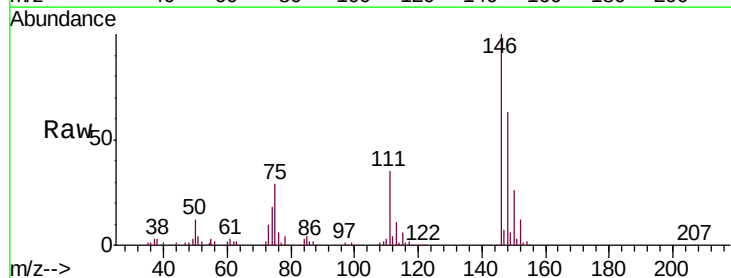
Tgt Ion:146 Resp: 154026

Ion Ratio Lower Upper

146 100

111 35.2 27.1 50.3

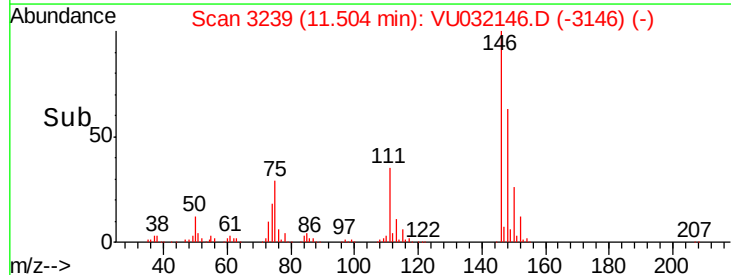
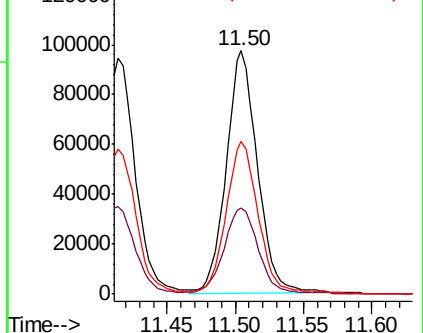
148 62.9 45.4 84.4

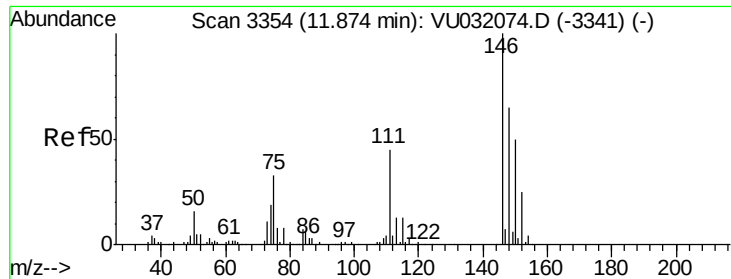


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.238 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

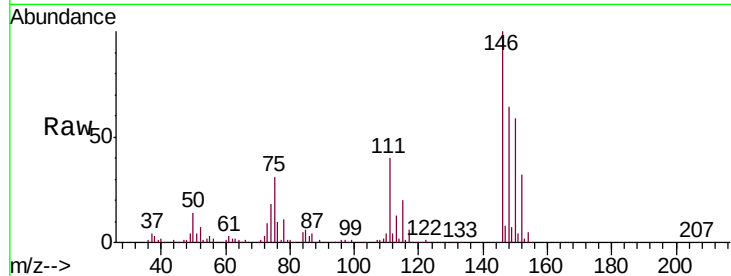
Tgt Ion:146 Resp: 150970

Ion Ratio Lower Upper

146 100

111 40.5 33.5 50.3

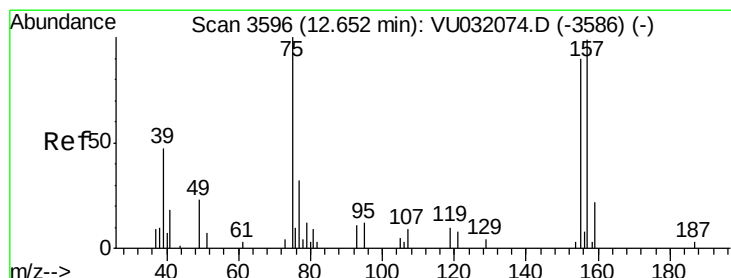
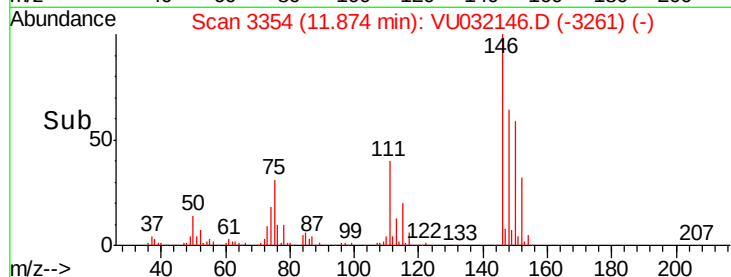
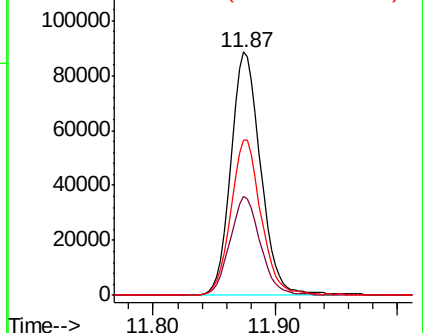
148 63.8 50.2 75.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.108 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

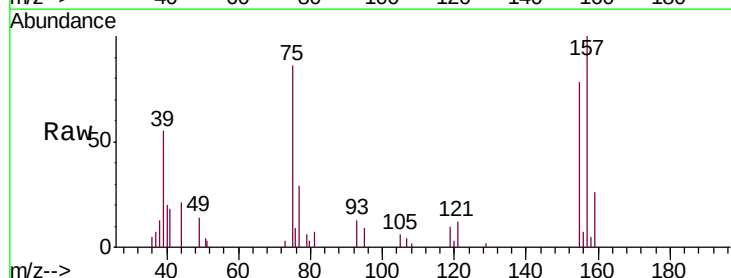
Tgt Ion: 75 Resp: 9607

Ion Ratio Lower Upper

75 100

155 90.8 65.0 97.6

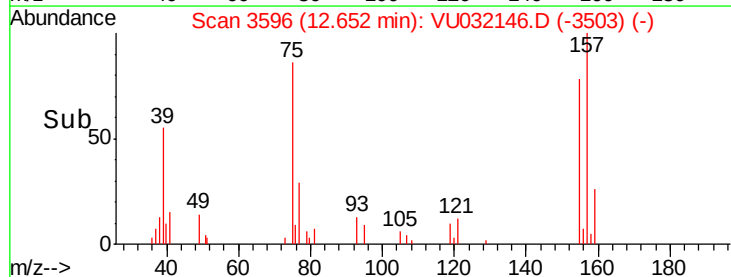
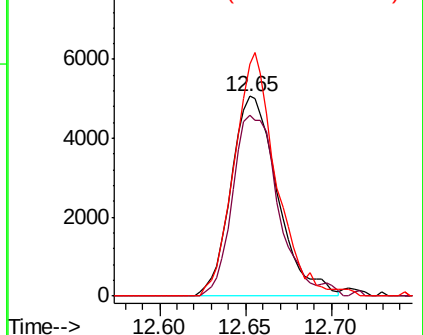
157 116.3 84.3 126.5

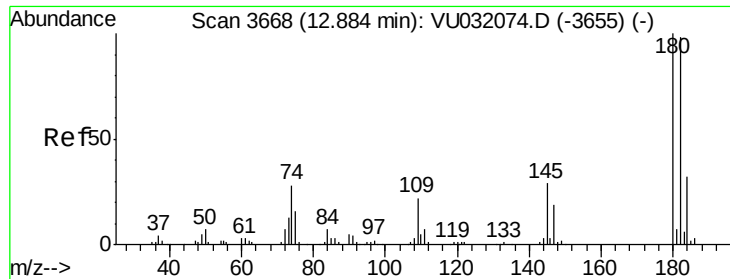


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

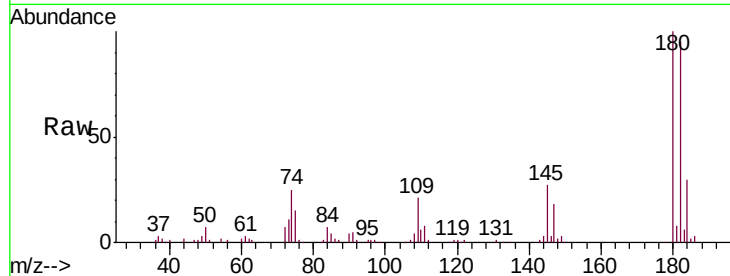




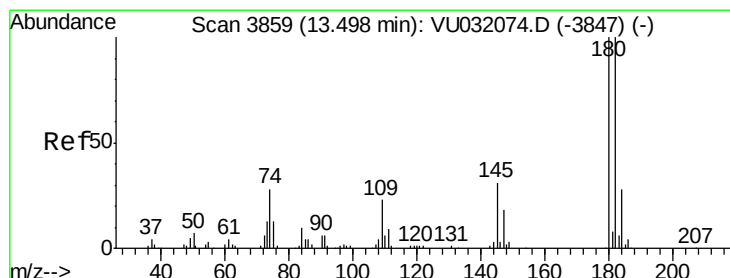
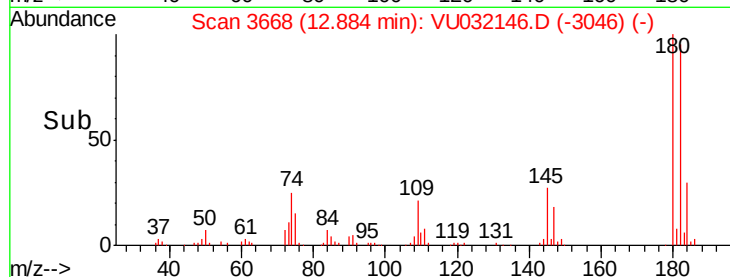
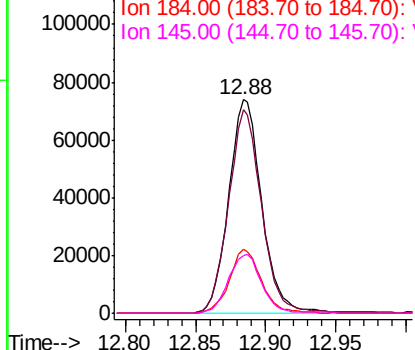
#67
 1,3,5-Trichlorobenzene
 Concen: 5.758 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion:	180	Resp:	121755
Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.3	115.9
184	28.9	24.5	36.7
145	27.4	23.2	34.8

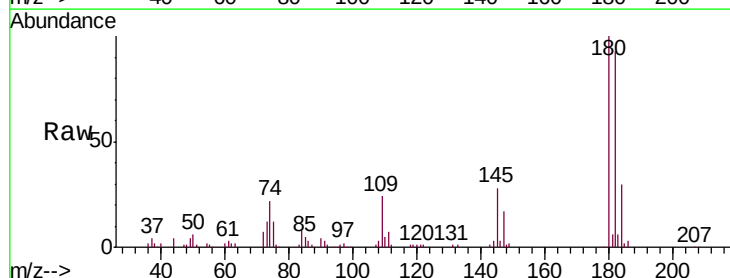


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

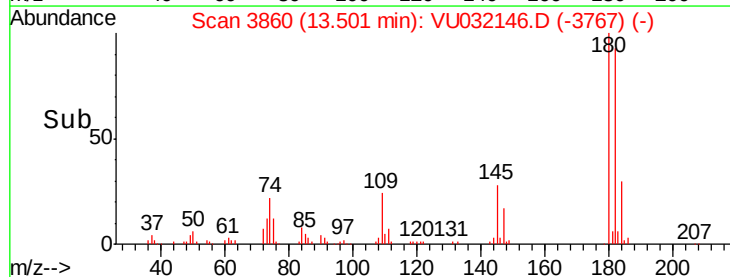
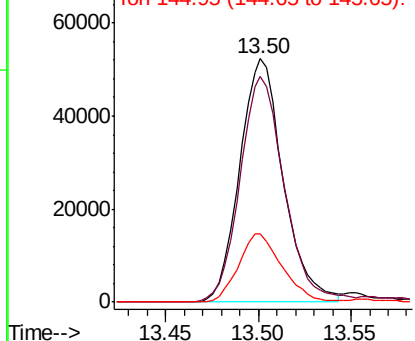


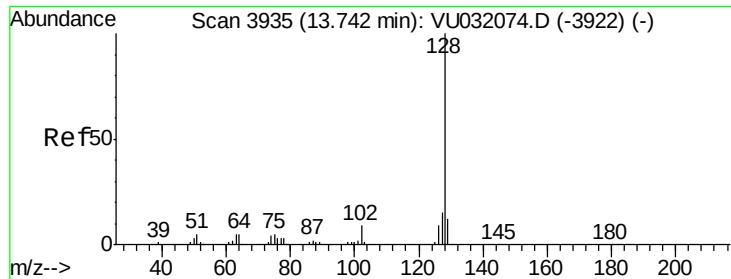
#68
 1,2,4-trichlorobenzene
 Concen: 5.836 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU032146.D
 Acq: 20 May 2019 11:30

Tgt Ion:	180	Resp:	85303
Ion	Ratio	Lower	Upper
180	100		
182	94.3	78.4	117.6
145	28.2	23.5	35.3



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: 5.312 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

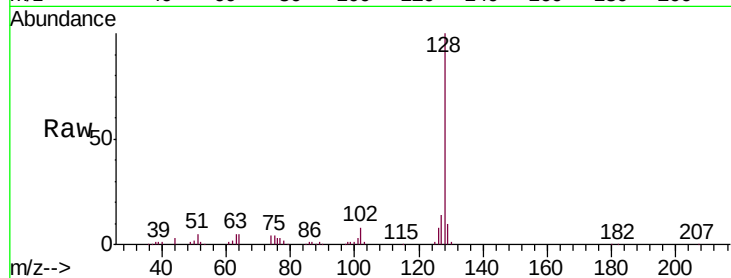
Tgt Ion:128 Resp: 120752

Ion Ratio Lower Upper

128 100

129 9.9 8.0 12.0

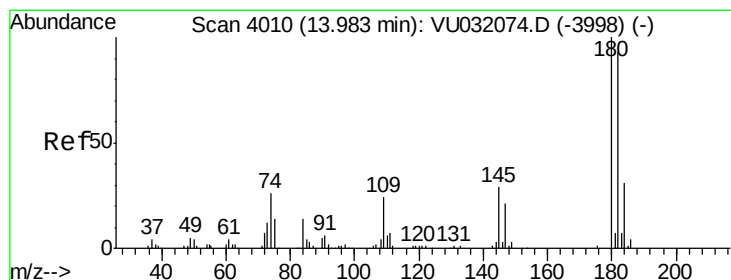
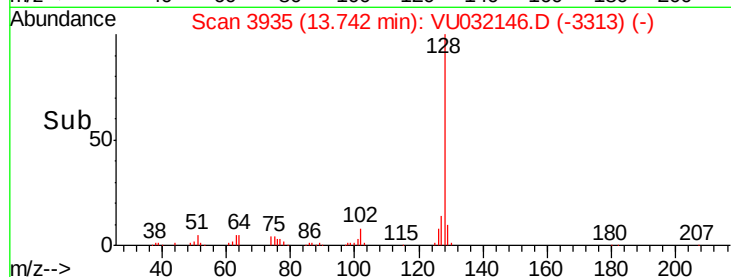
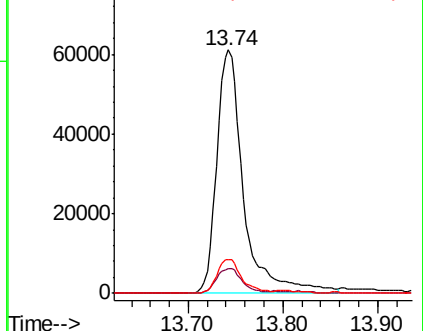
127 12.9 10.1 15.1



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: 5.713 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU032146.D

Acq: 20 May 2019 11:30

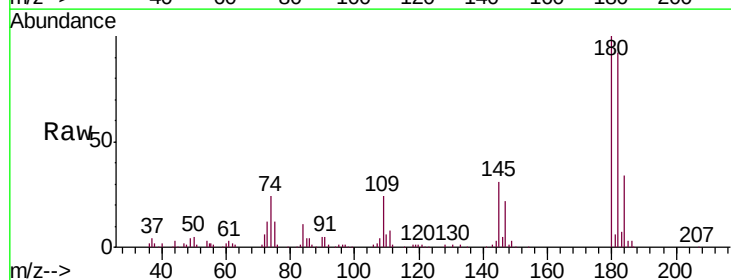
Tgt Ion:180 Resp: 84759

Ion Ratio Lower Upper

180 100

182 95.4 75.3 112.9

145 30.4 25.2 37.8



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

