

Data File : VU033496.D
Acq On : 30 Jul 2019 16:31
Operator : JC/SP
Sample : VSTD20032
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

Quant Time: Jul 31 07:39:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 07:35:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	344527	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	335925	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	194893	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	475168	182.78	ug/L	0.00
7) Chloroethane-d5	1.66	69	395751	177.34	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.25	63	890970	193.29	ug/L	0.00
21) 2-Butanone-d5	4.15	46	667380	399.70	ug/L	0.00
24) Chloroform-d	4.62	84	821963	188.90	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	506997	181.59	ug/L	0.00
32) Benzene-d6	5.31	84	1656778	199.51	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	522897	196.44	ug/L	0.00
41) Toluene-d8	7.55	98	1584420	202.48	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	266632	206.04	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	565070	463.53	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	811563	201.90	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	681432	195.05	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	641119	186.950	ug/L	100
3) Chloromethane	1.32	50	618166	181.863	ug/L	100
5) Vinyl chloride	1.39	62	685327	177.252	ug/L	99
6) Bromomethane	1.60	94	799130	306.284	ug/L	98
8) Chloroethane	1.68	64	410170	174.606	ug/L	96
9) Trichlorofluoromethane	1.87	101	892239	175.619	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	454772	193.695	ug/L	99
12) 1,1-Dichloroethene	2.27	96	447150	195.039	ug/L	94
13) Acetone	2.31	43	588956	286.514	ug/L	99
14) Carbon disulfide	2.46	76	1358453	191.698	ug/L	100
15) Methyl Acetate	2.59	43	533701	194.589	ug/L	99
16) Methylene chloride	2.68	84	495419	187.180	ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	466831	194.716	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1496980	202.260	ug/L	99
19) 1,1-Dichloroethane	3.42	63	871474	189.441	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	532175	197.180	ug/L	97
22) 2-Butanone	4.23	43	830441	360.050	ug/L	97
23) Bromochloromethane	4.52	128	267734	192.091	ug/L	99
25) Chloroform	4.65	83	895099	182.450	ug/L	99
27) 1,2-Dichloroethane	5.38	62	702948	186.370	ug/L	100
29) Cyclohexane	4.97	56	793149	213.548	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	779101	195.663	ug/L	99
31) Carbon tetrachloride	5.11	117	699153	200.944	ug/L	100
33) Benzene	5.36	78	1963317	197.340	ug/L	100
34) Trichloroethene	6.16	95	515320	198.360	ug/L	98
35) Methylcyclohexane	6.40	83	864973	216.219	ug/L	99
37) 1,2-Dichloropropane	6.41	63	524243	195.008	ug/L	100
38) Bromodichloromethane	6.74	83	683362	197.259	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	866011	207.795	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	1522751	417.778	ug/L	99

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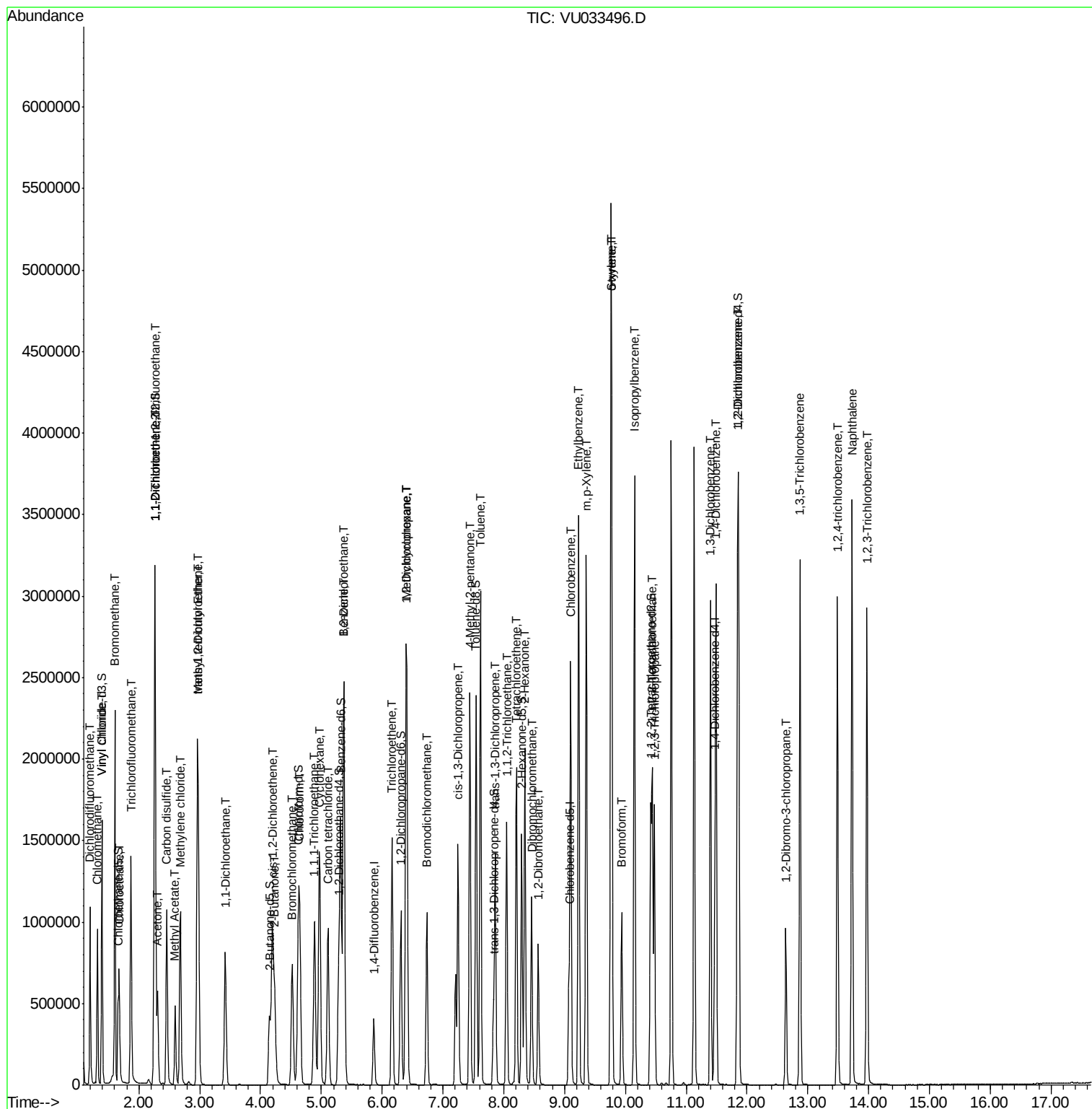
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	2165206	202.067	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	779221	209.419	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	493742	193.972	ug/L	100
46) Tetrachloroethene	8.21	164	428942	210.342	ug/L	100
48) 2-Hexanone	8.35	43	1241986	418.493	ug/L	98
49) Dibromochloromethane	8.46	129	584571	204.616	ug/L	98
50) 1,2-Dibromoethane	8.57	107	553385	198.800	ug/L	99
51) Chlorobenzene	9.10	112	1379371	197.208	ug/L	100
52) Ethylbenzene	9.23	91	2398786	209.446	ug/L	100
53) m,p-Xylene	9.36	106	911190	210.064	ug/L	98
54) o-xylene	9.76	106	905391	209.846	ug/L	98
55) Styrene	9.77	104	1576737	215.792	ug/L	100
56) Isopropylbenzene	10.15	105	2379621	214.331	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	919228	204.676	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	693323	196.935	ug/L	100
61) Bromoform	9.94	173	477111	196.446	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	1181630	193.553	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	1201577	188.937	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	1207869	193.635	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	233586	196.622	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	994242	222.126	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	910647	232.774	ug/L	99
69) Naphthalene	13.73	128	2748672	224.109	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	924621	217.621	ug/L	100

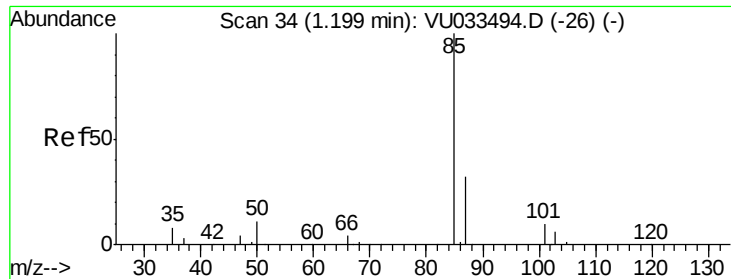
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 186.950 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

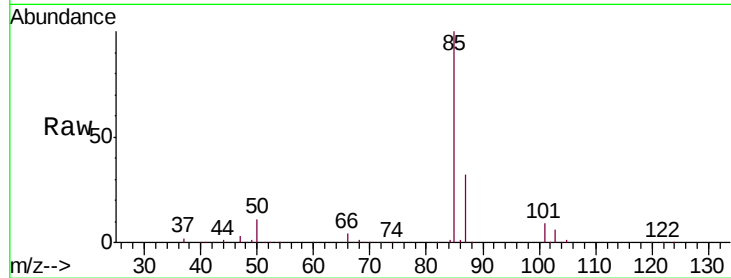
VSTD20032

Tgt Ion: 85 Resp: 641119

Ion Ratio Lower Upper

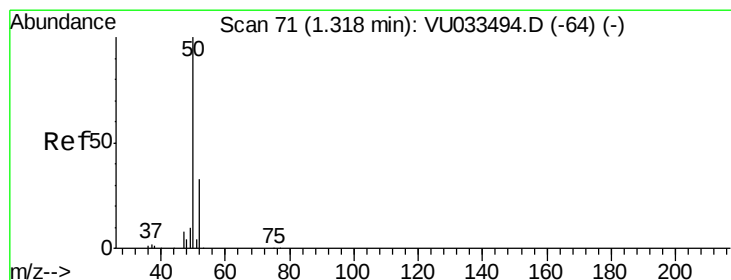
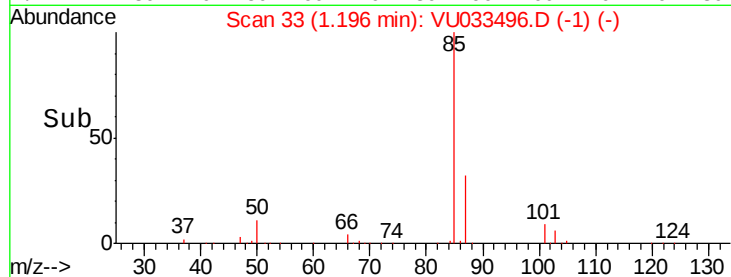
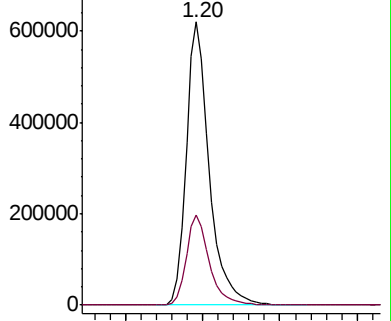
85 100

87 31.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033494.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033494.D (-26) (-)



#3

Chloromethane

Concen: 181.863 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033496.D

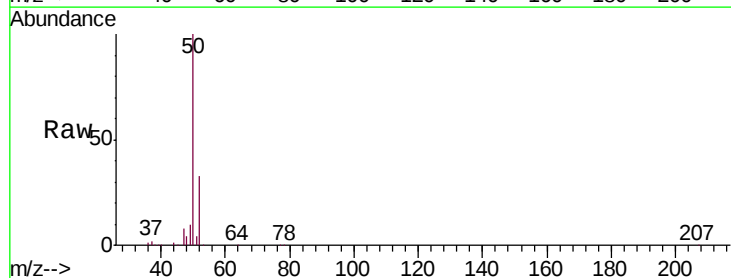
Acq: 30 Jul 2019 16:31

Tgt Ion: 50 Resp: 618166

Ion Ratio Lower Upper

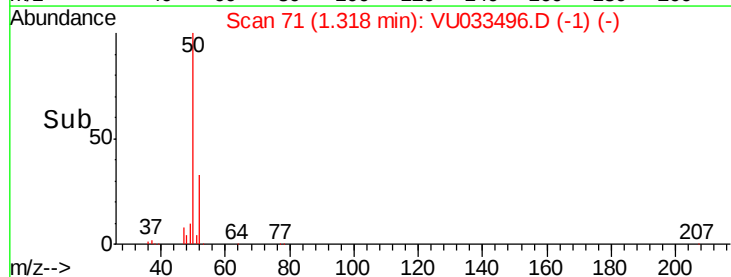
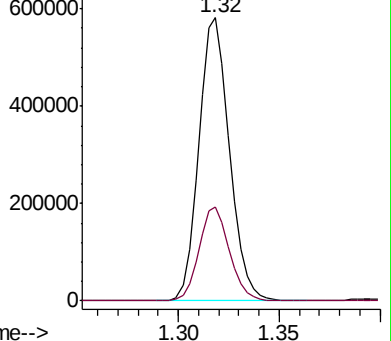
50 100

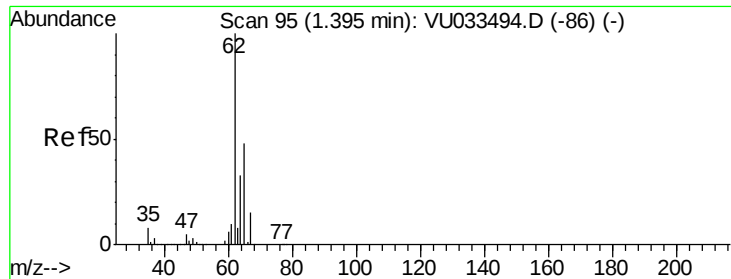
52 33.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033494.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033494.D (-64) (-)





#5

Vinyl chloride

Concen: 177.252 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

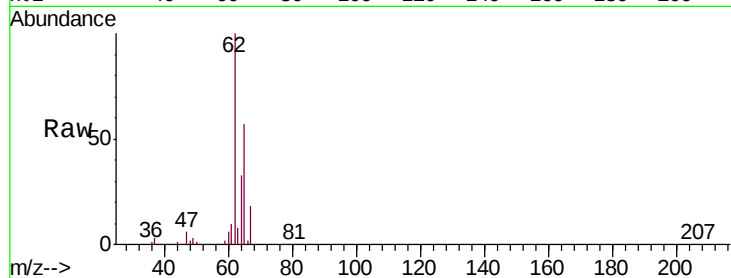
VSTD20032

Tgt Ion: 62 Resp: 685327

Ion Ratio Lower Upper

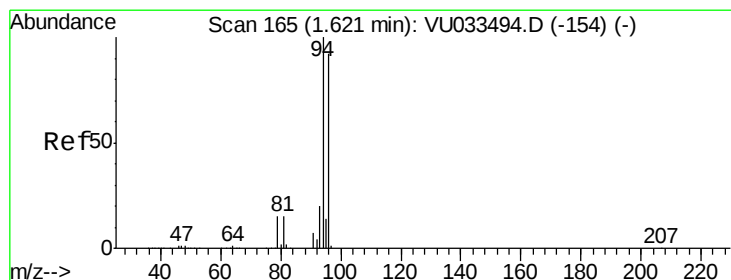
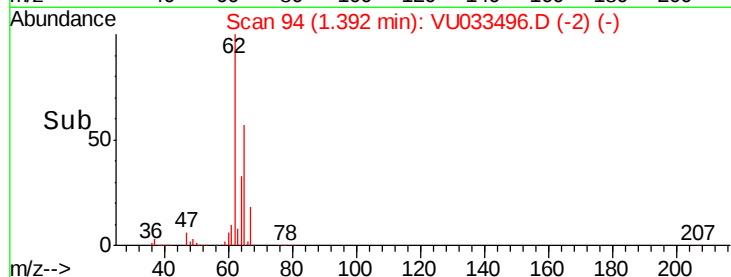
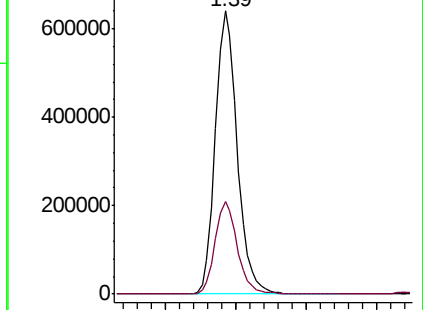
62 100

64 32.6 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033496.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033496.D (-86) (-)



#6

Bromomethane

Concen: 306.284 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU033496.D

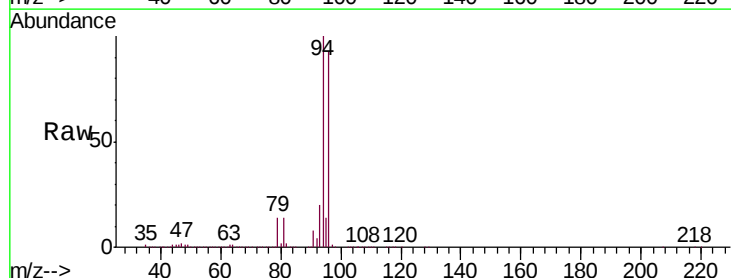
Acq: 30 Jul 2019 16:31

Tgt Ion: 94 Resp: 799130

Ion Ratio Lower Upper

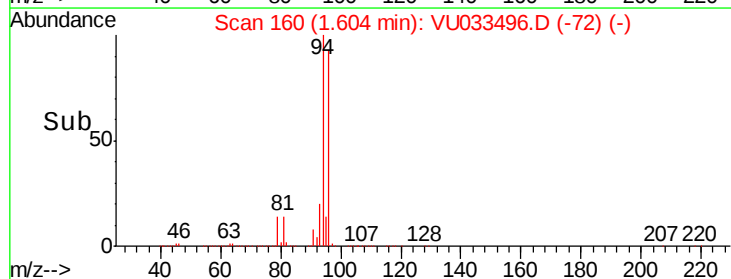
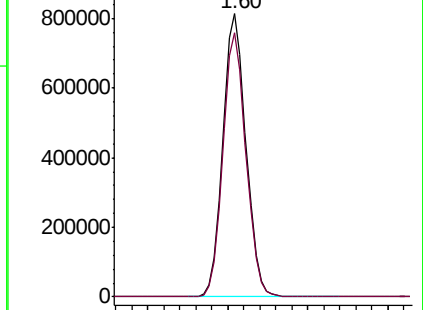
94 100

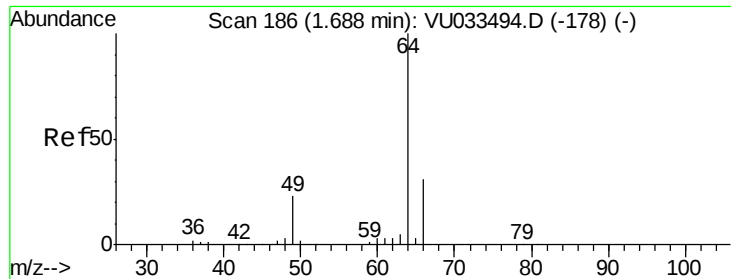
96 93.5 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033496.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033496.D (-154) (-)





#8

Chloroethane

Concen: 174.606 ug/L

RT: 1.68 min Scan# 182

Delta R.T. -0.01 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

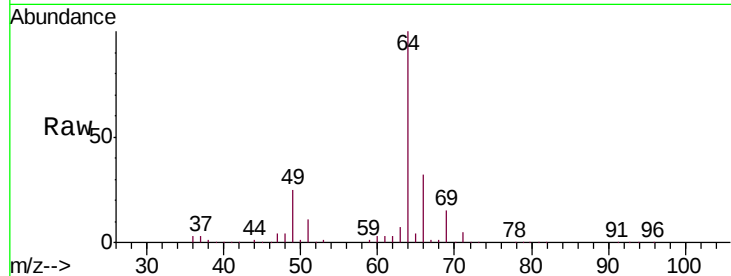
VSTD20032

Tgt Ion: 64 Resp: 410170

Ion Ratio Lower Upper

64 100

66 32.1 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VU033494.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033494.D (-178) (-)

1.68

300000

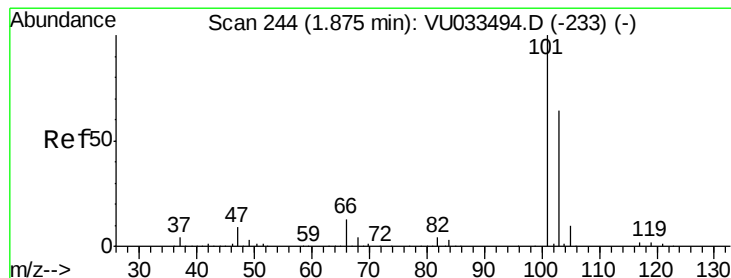
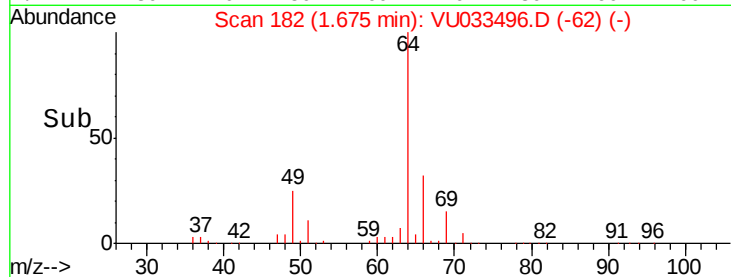
200000

100000

0

1.60 1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 175.619 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU033496.D

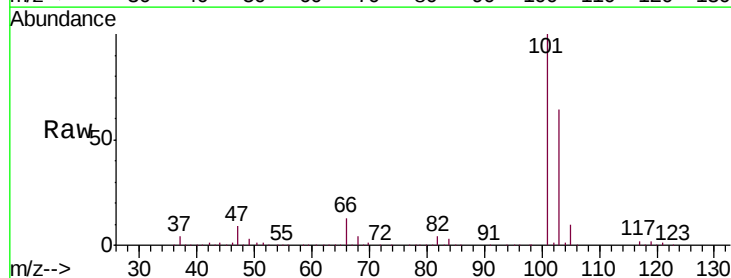
Acq: 30 Jul 2019 16:31

Tgt Ion: 101 Resp: 892239

Ion Ratio Lower Upper

101 100

103 64.2 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU033494.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033494.D (-233) (-)

1.87

600000

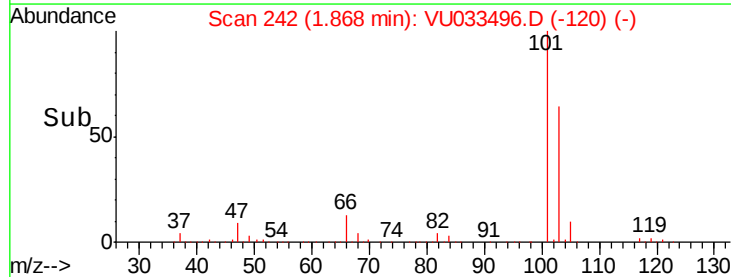
400000

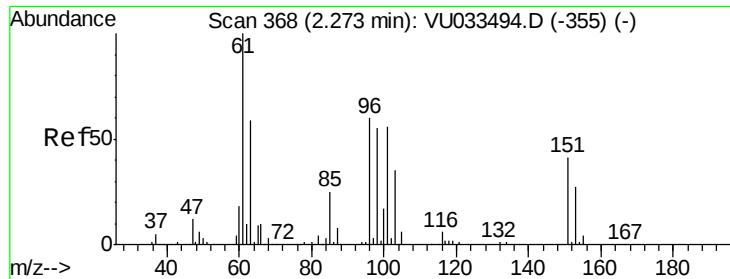
200000

0

1.80 1.85 1.90 2.00

Time-->





#10

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

Concen: 193.695 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20032

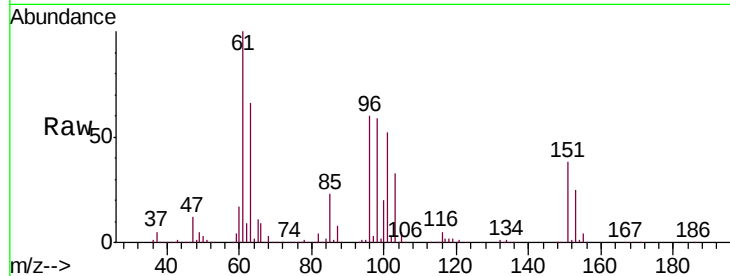
Tgt Ion:101 Resp: 454772

Ion Ratio Lower Upper

101 100

85 44.4 35.8 53.8

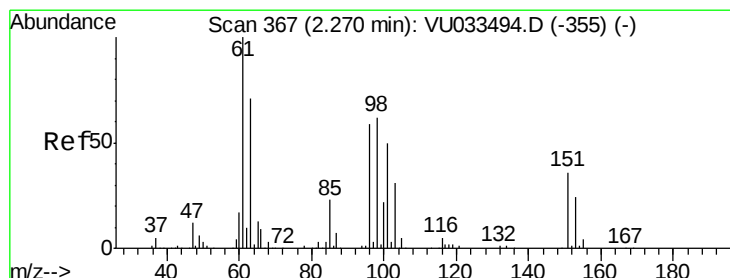
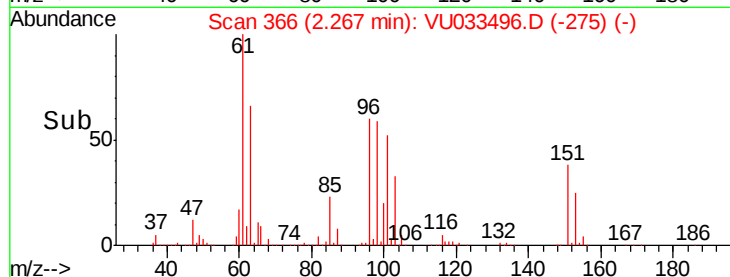
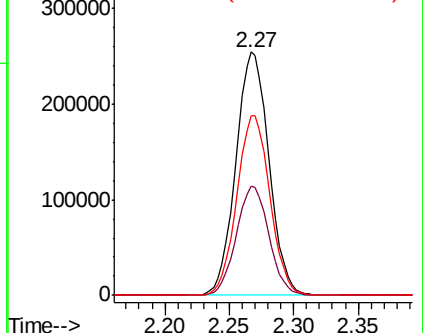
151 73.7 60.1 90.1



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: 195.039 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

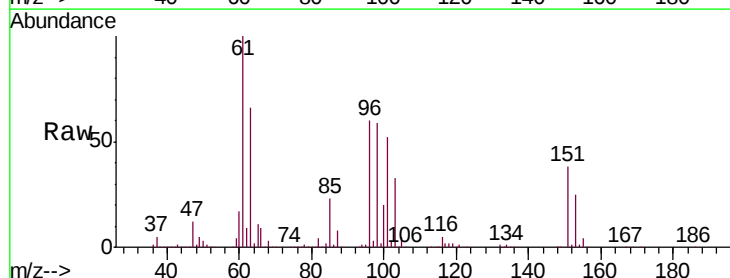
Tgt Ion: 96 Resp: 447150

Ion Ratio Lower Upper

96 100

61 166.6 119.3 221.5

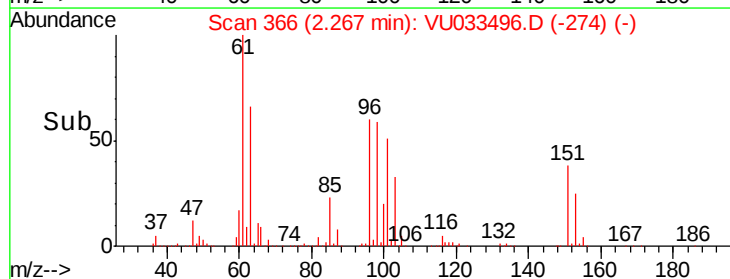
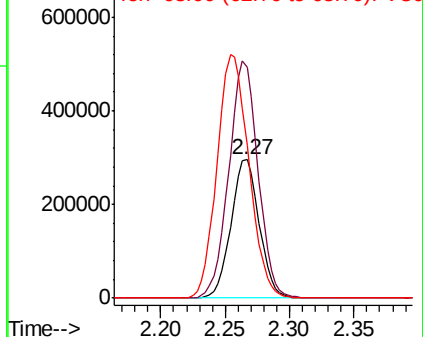
63 110.6 86.6 160.8

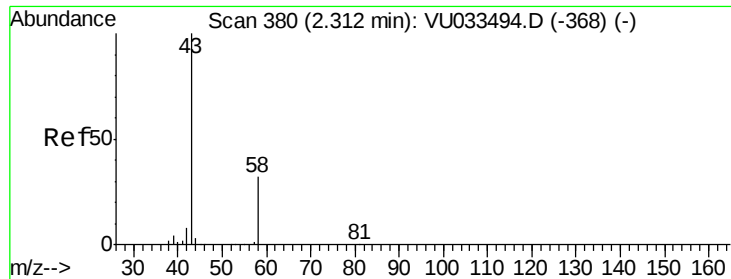


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

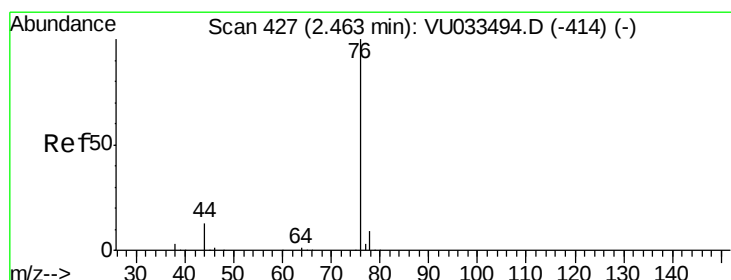
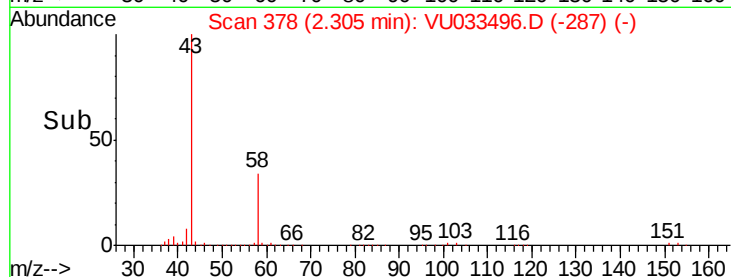
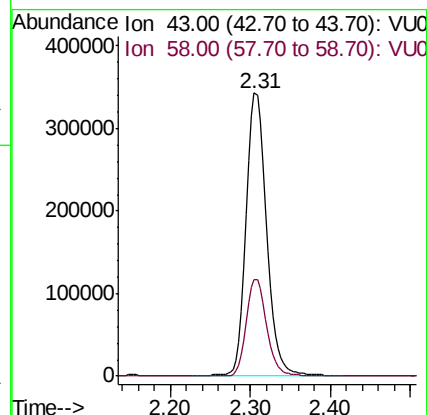
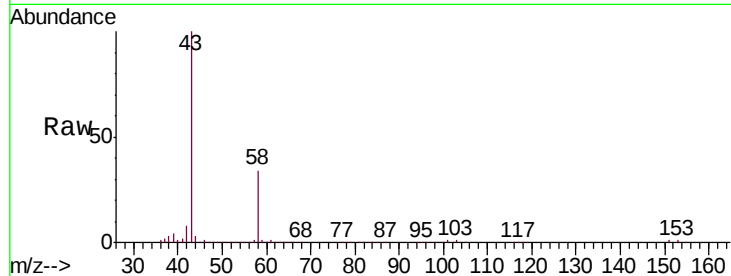




#13
Acetone
Concen: 286.514 ug/L
RT: 2.31 min Scan# 378
Delta R.T. -0.01 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

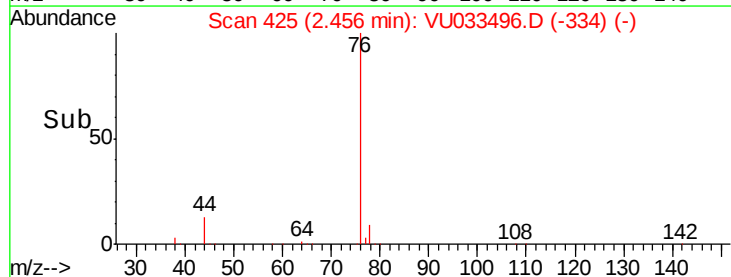
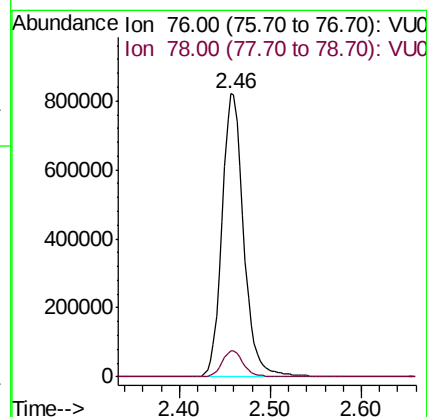
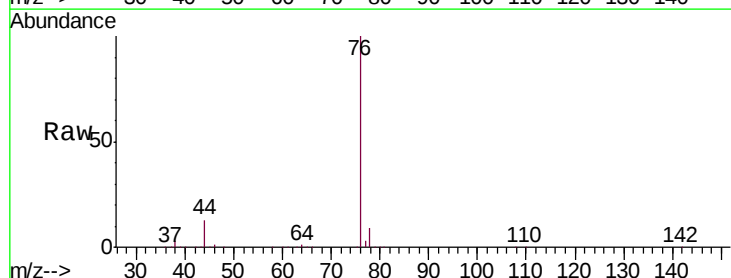
Instrument :
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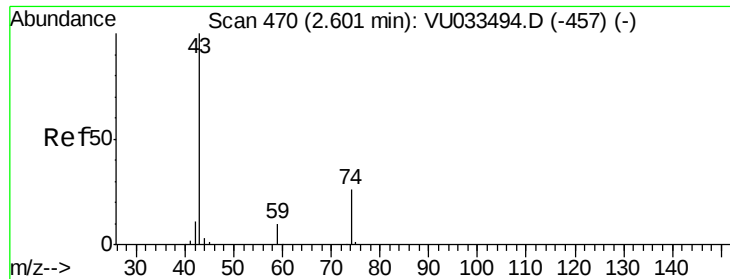
Tgt Ion: 43 Resp: 588956
Ion Ratio Lower Upper
43 100
58 33.8 0.0 66.2



#14
Carbon disulfide
Concen: 191.698 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion: 76 Resp: 1358453
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.0

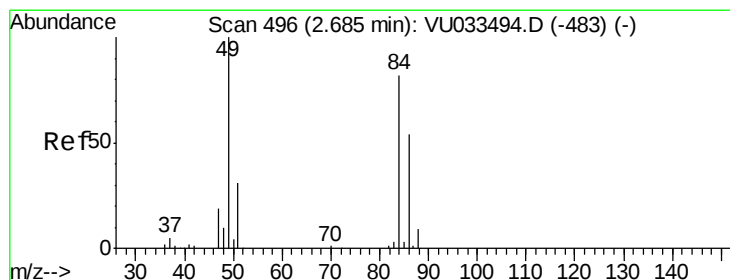
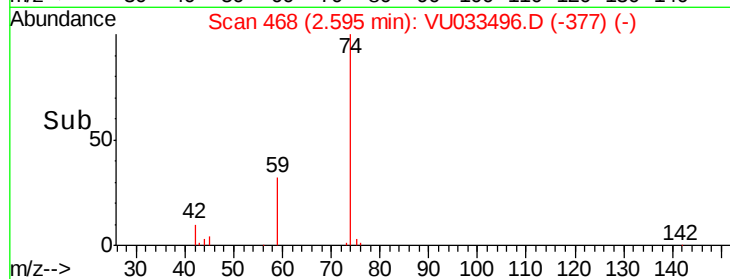
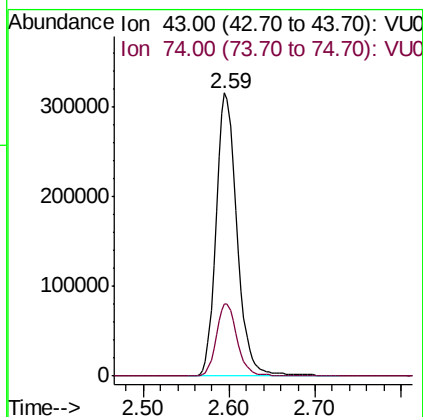
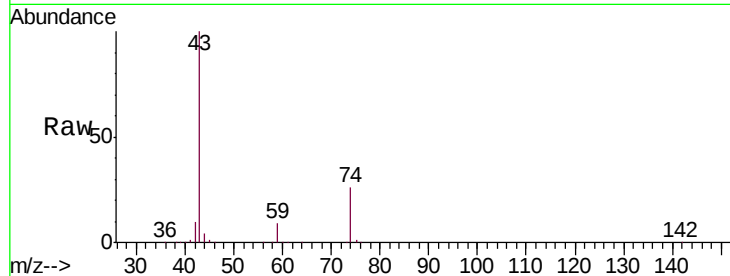




#15
Methyl Acetate
Concen: 194.589 ug/L
RT: 2.59 min Scan# 468
Delta R.T. -0.01 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

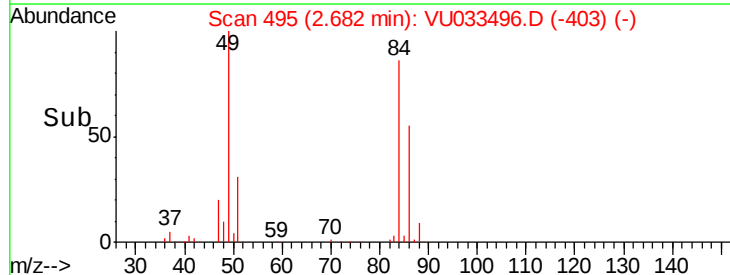
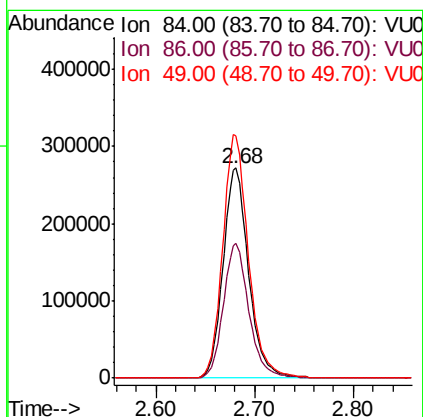
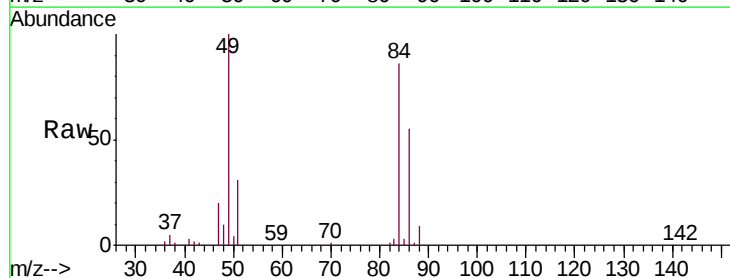
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

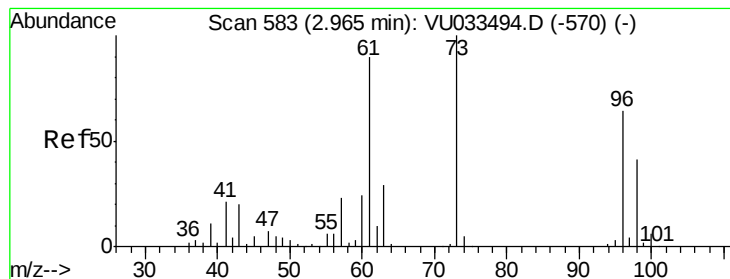
Tgt Ion: 43 Resp: 533701
Ion Ratio Lower Upper
43 100
74 25.6 20.1 30.1



#16
Methylene chloride
Concen: 187.180 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion: 84 Resp: 495419
Ion Ratio Lower Upper
84 100
86 64.0 45.7 84.9
49 115.7 85.0 158.0





#17

trans-1,2-Dichloroethene

Concen: 194.716 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20032

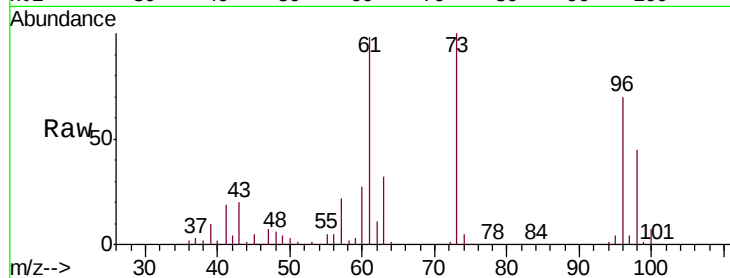
Tgt Ion: 96 Resp: 466831

Ion Ratio Lower Upper

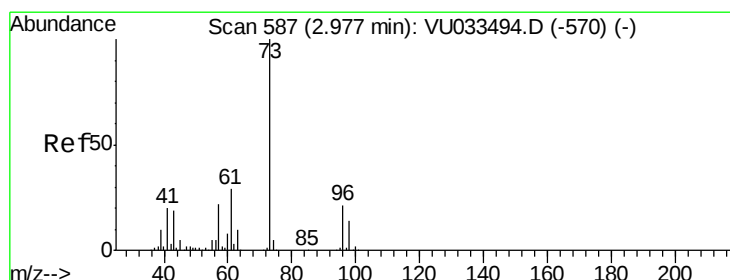
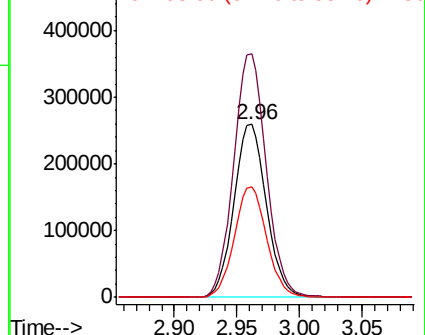
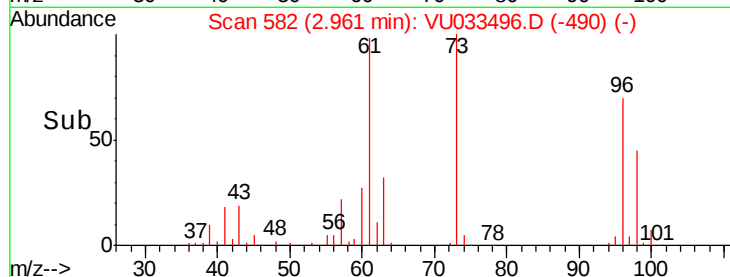
96 100

61 140.9 98.3 182.5

98 64.2 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 202.260 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

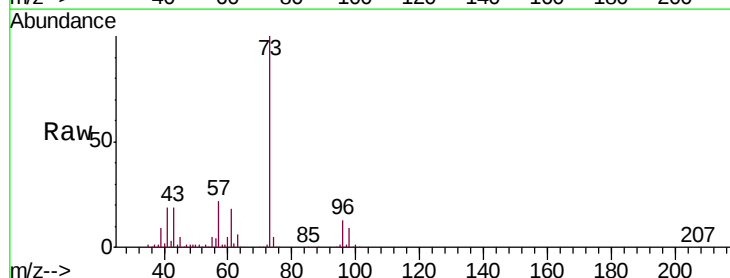
Tgt Ion: 73 Resp: 1496980

Ion Ratio Lower Upper

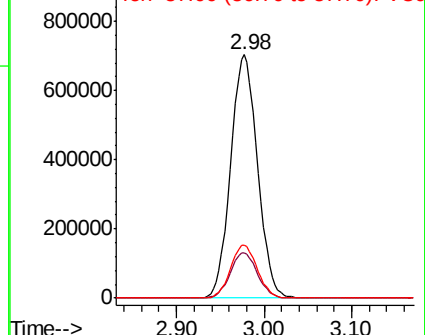
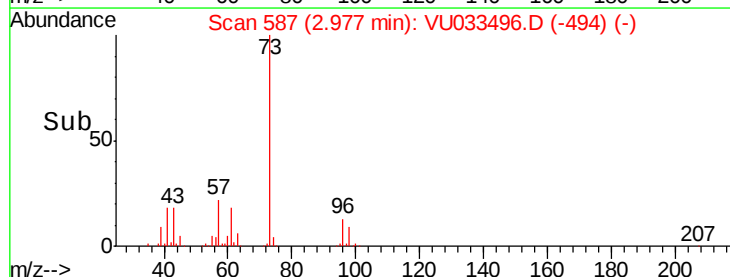
73 100

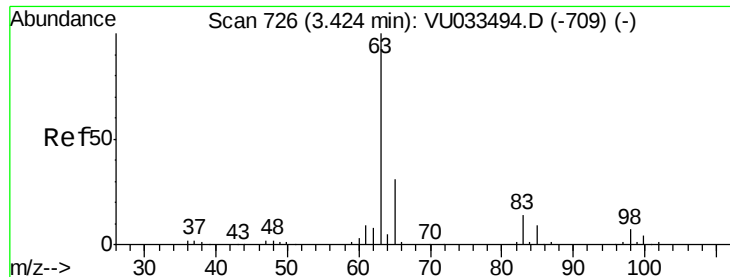
43 18.7 15.4 23.2

57 21.9 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

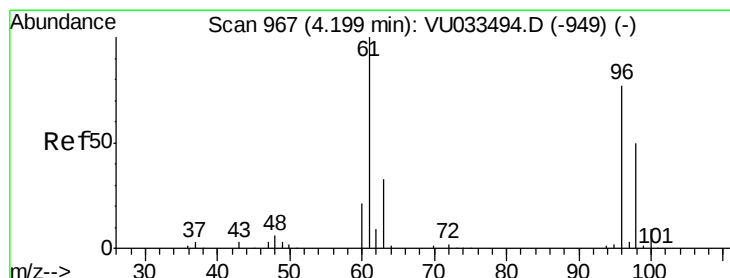
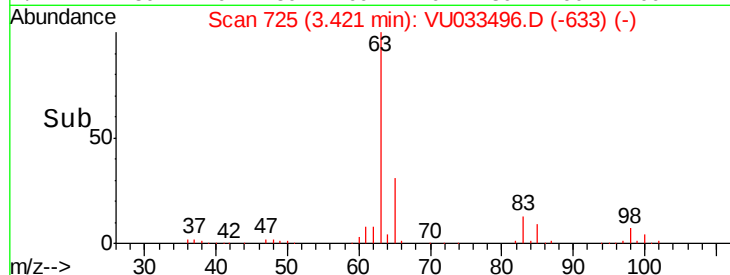
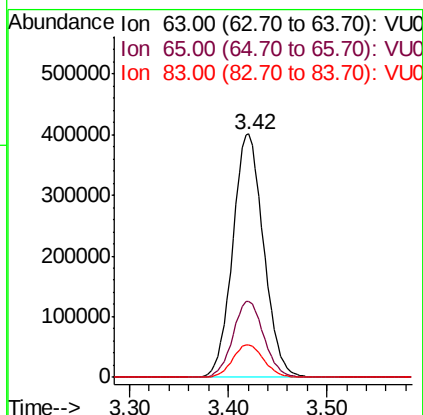
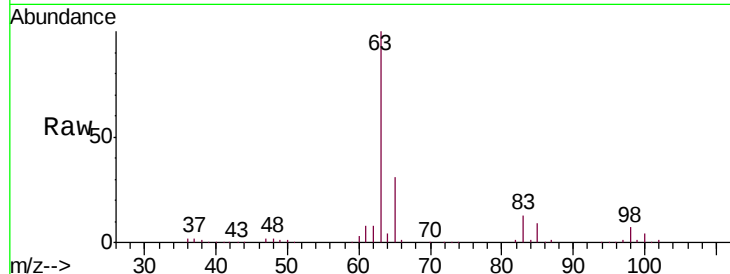




#19
 1,1-Dichloroethane
 Concen: 189.441 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

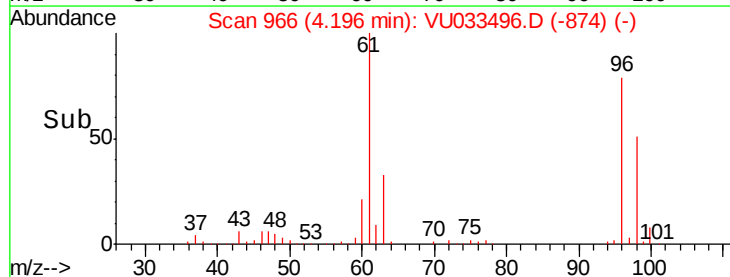
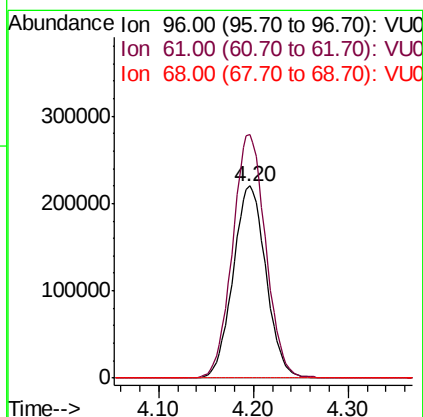
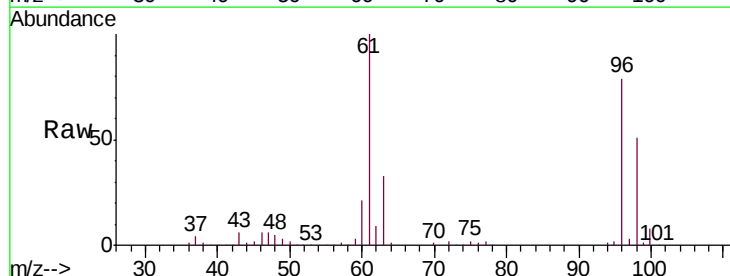
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20032

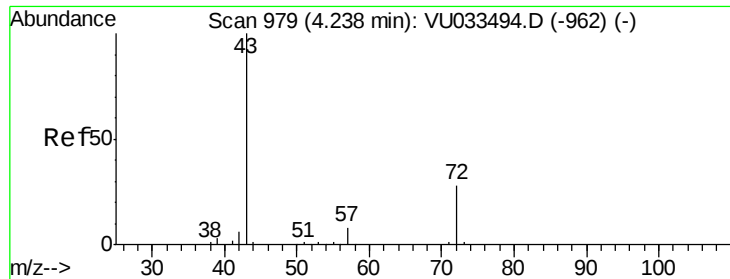
Tgt Ion: 63 Resp: 871474
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.0 40.8
 83 13.2 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 197.180 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Tgt Ion: 96 Resp: 532175
 Ion Ratio Lower Upper
 96 100
 61 126.8 91.3 169.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 360.050 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

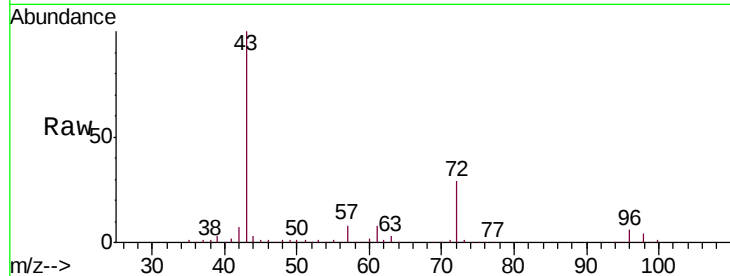
VSTD20032

Tgt Ion: 43 Resp: 830441

Ion Ratio Lower Upper

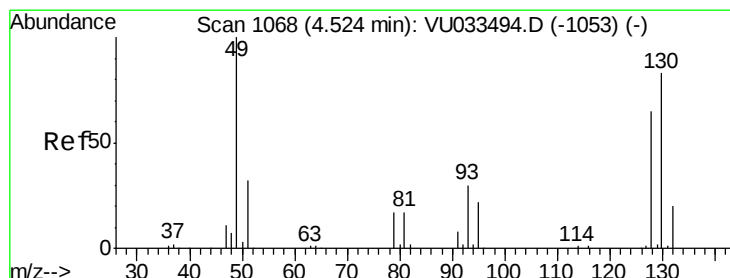
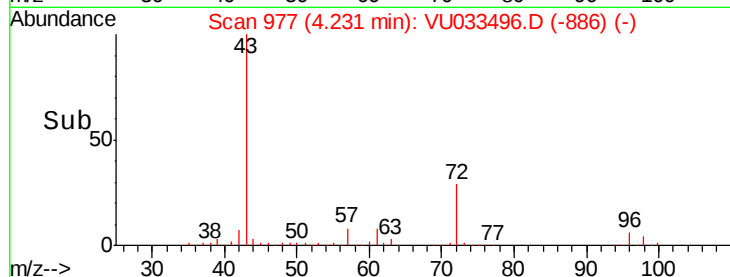
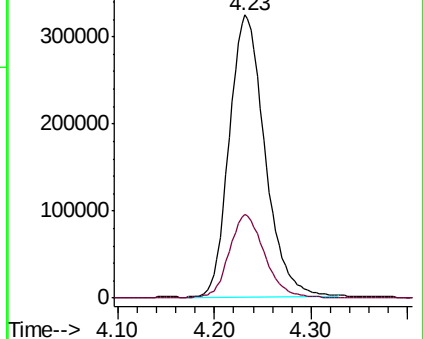
43 100

72 29.8 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033496.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033496.D (-962) (-)



#23

Bromochloromethane

Concen: 192.091 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Tgt Ion: 128 Resp: 267734

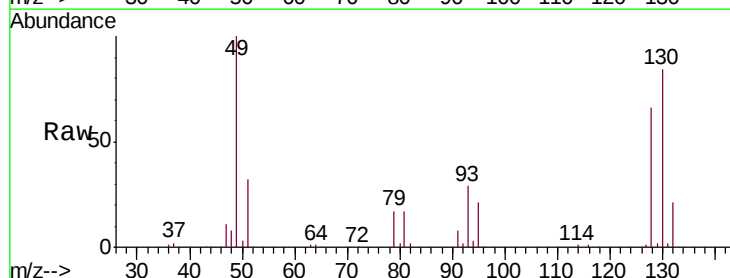
Ion Ratio Lower Upper

128 100

49 152.4 108.4 201.2

130 128.6 89.7 166.5

51 48.2 38.9 58.3

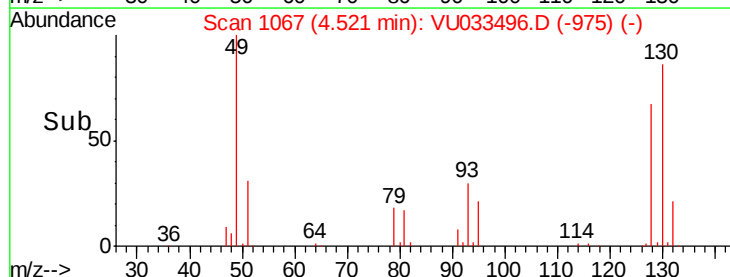
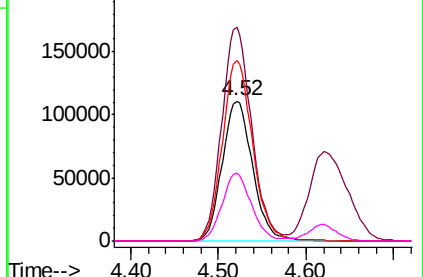


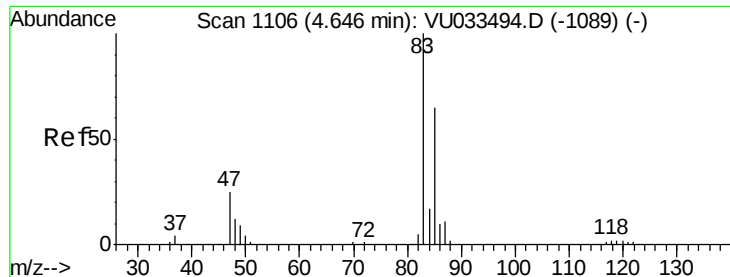
Abundance Ion 128.00 (127.70 to 128.70): VU033496.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033496.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033496.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033496.D (-1053) (-)

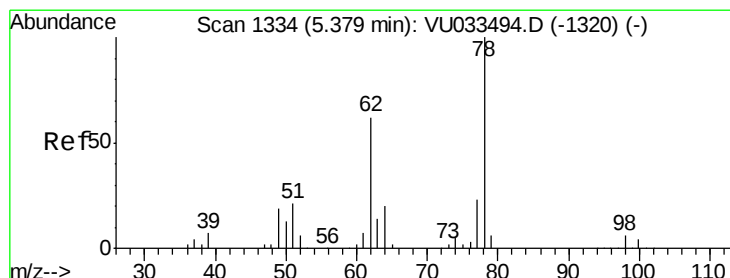
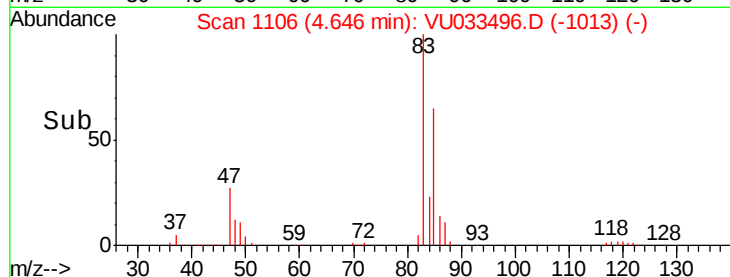
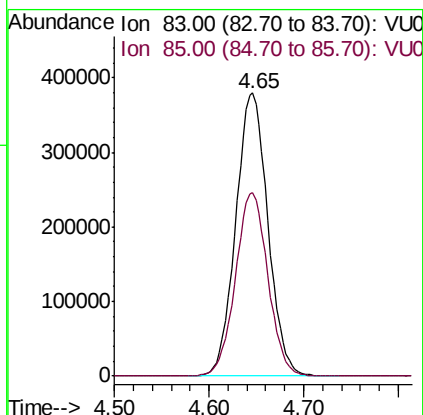
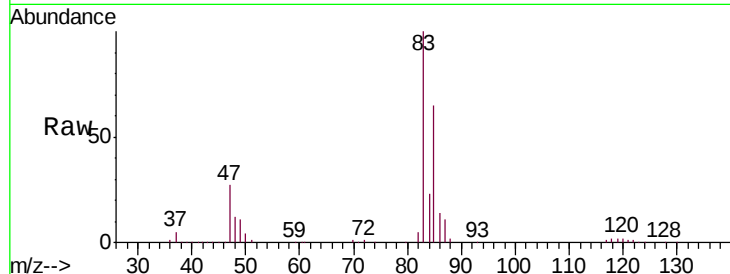




#25
Chloroform
Concen: 182.450 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

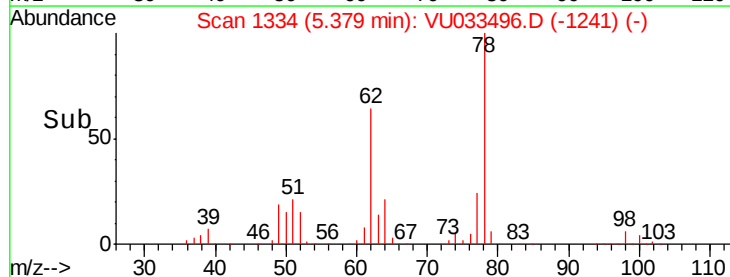
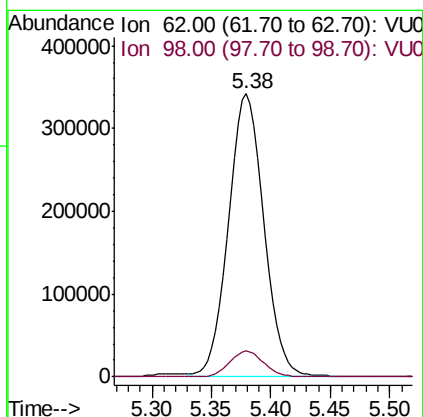
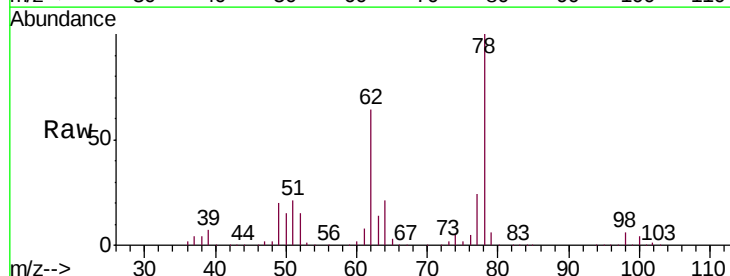
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

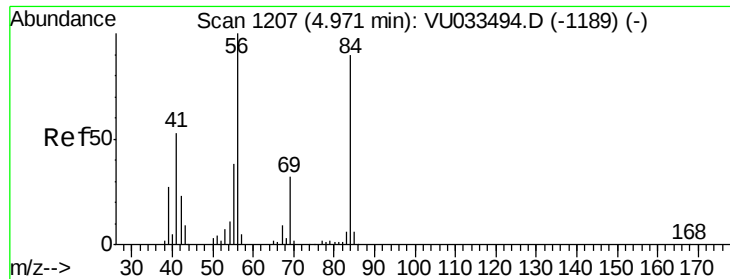
Tgt Ion: 83 Resp: 895099
Ion Ratio Lower Upper
83 100
85 64.7 45.6 84.8



#27
1,2-Dichloroethane
Concen: 186.370 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion: 62 Resp: 702948
Ion Ratio Lower Upper
62 100
98 9.1 7.2 10.8

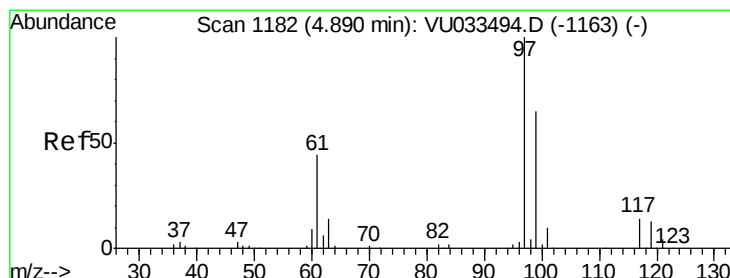
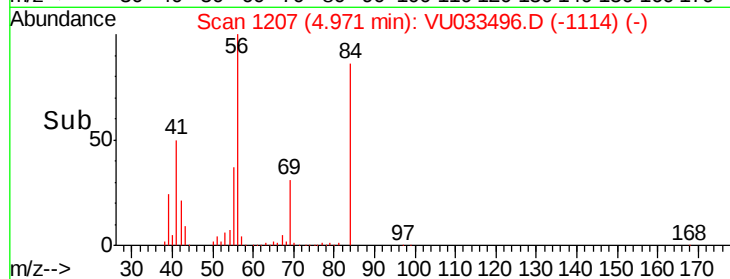
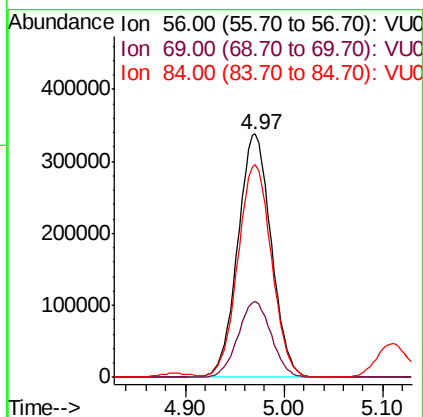
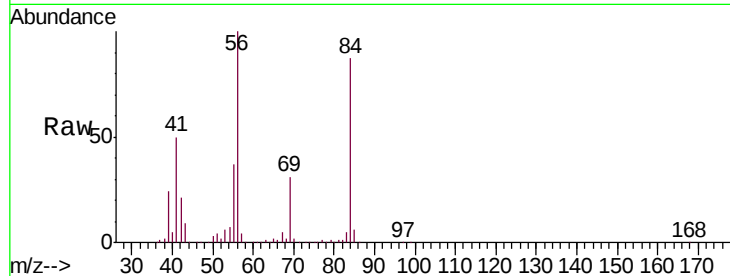




#29
Cyclohexane
Concen: 213.548 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

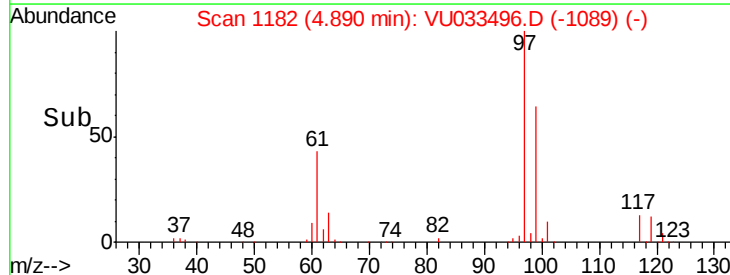
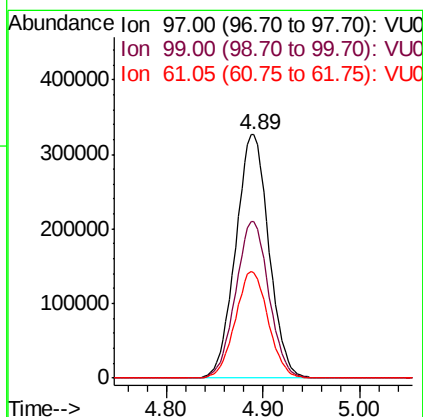
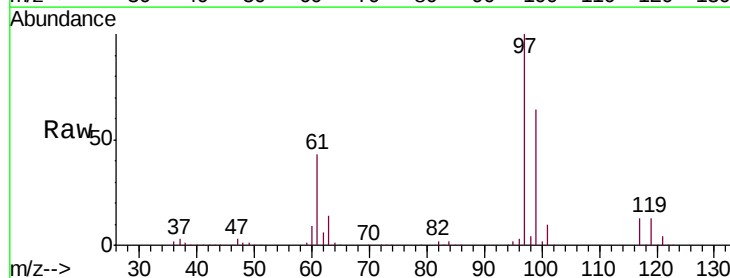
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

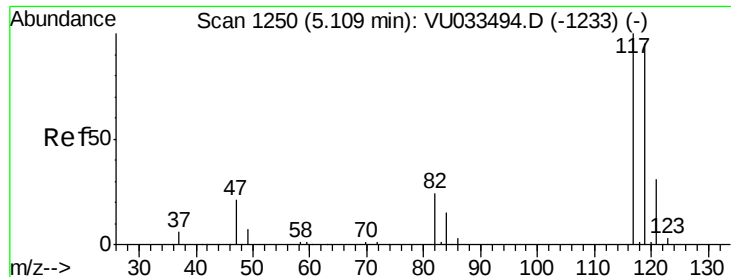
Tgt Ion: 56 Resp: 793149
Ion Ratio Lower Upper
56 100
69 31.0 25.0 37.6
84 88.1 71.6 107.4



#30
1,1,1-Trichloroethane
Concen: 195.663 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion: 97 Resp: 779101
Ion Ratio Lower Upper
97 100
99 64.3 51.1 76.7
61 43.4 35.5 53.3

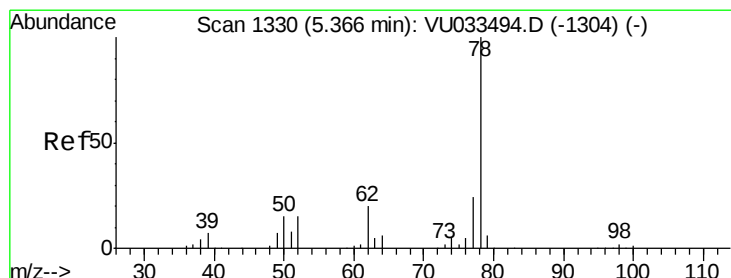
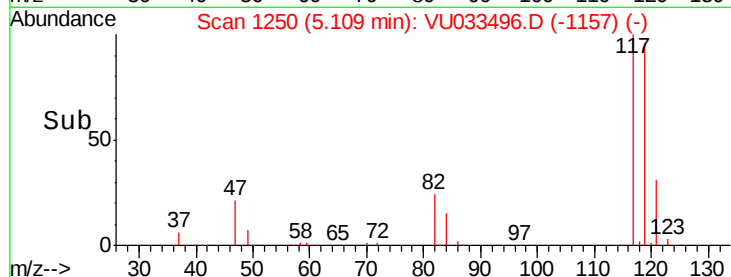
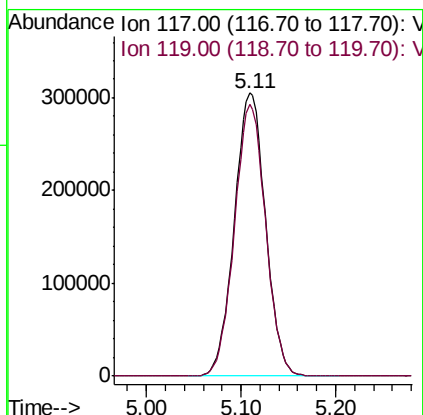
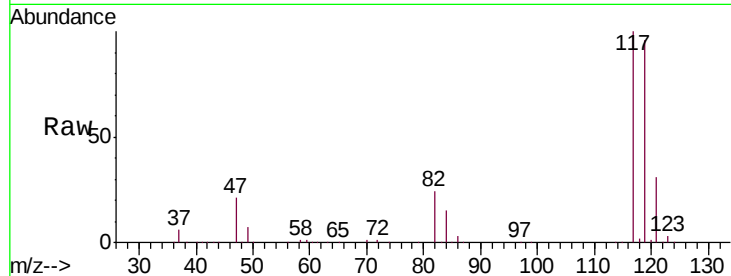




#31
Carbon tetrachloride
Concen: 200.944 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

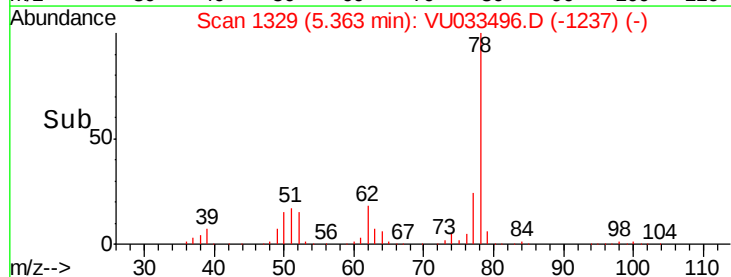
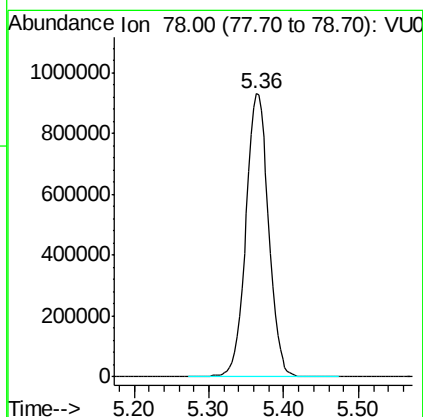
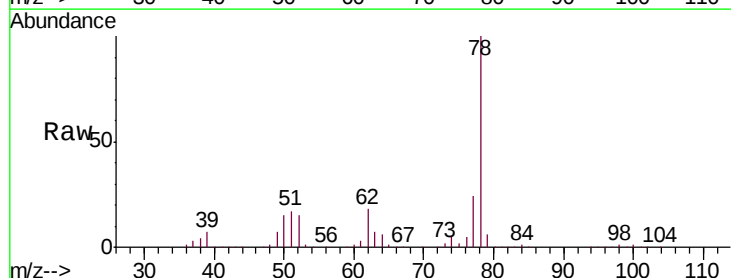
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

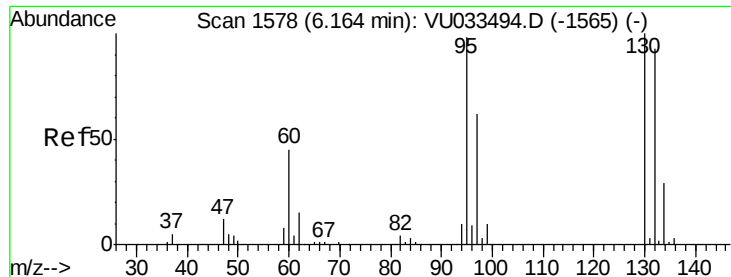
Tgt Ion:117 Resp: 699153
Ion Ratio Lower Upper
117 100
119 96.0 77.0 115.4



#33
Benzene
Concen: 197.340 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion: 78 Resp: 1963317





#34

Trichloroethene

Concen: 198.360 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20032

Tgt Ion: 95 Resp: 515320

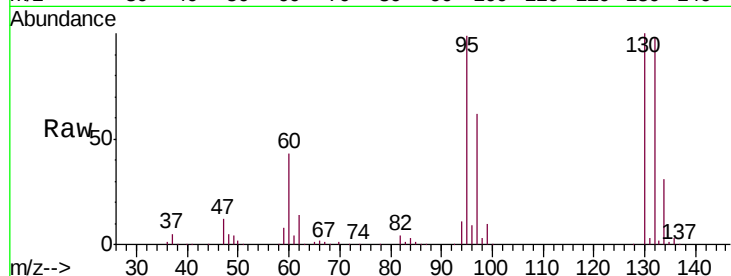
Ion Ratio Lower Upper

95 100

97 62.6 44.7 83.1

132 98.7 66.8 124.0

130 101.0 71.6 133.0



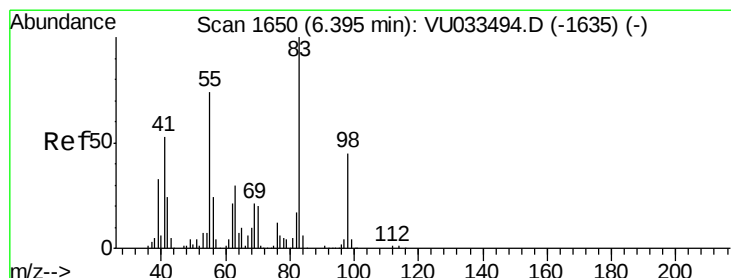
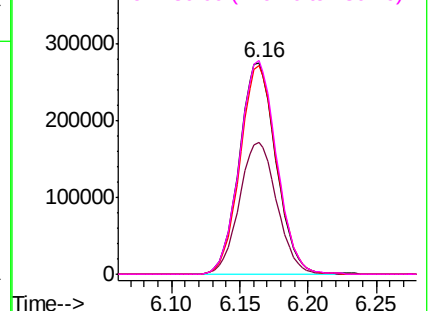
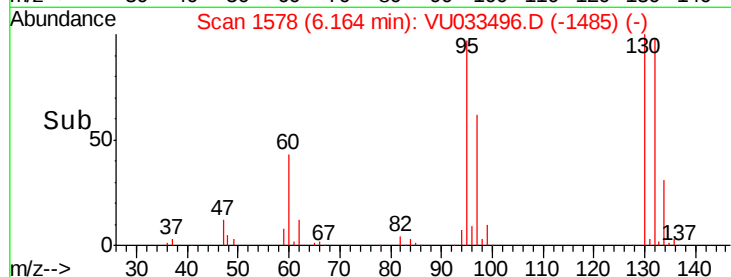
Abundance

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: 216.219 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

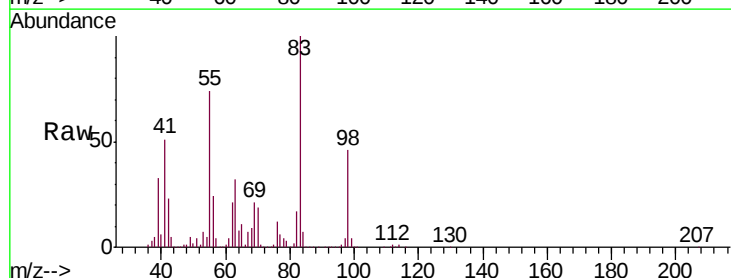
Tgt Ion: 83 Resp: 864973

Ion Ratio Lower Upper

83 100

55 73.6 60.2 90.4

98 45.5 36.5 54.7

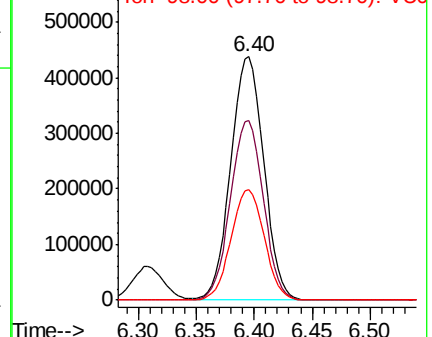
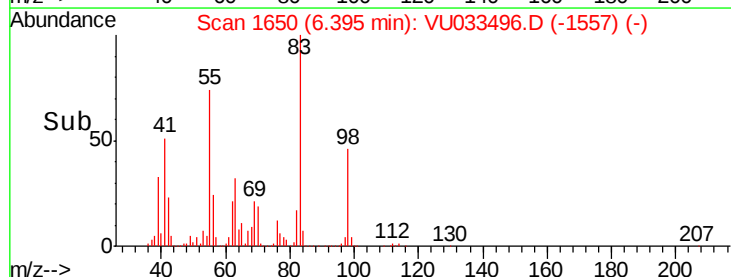


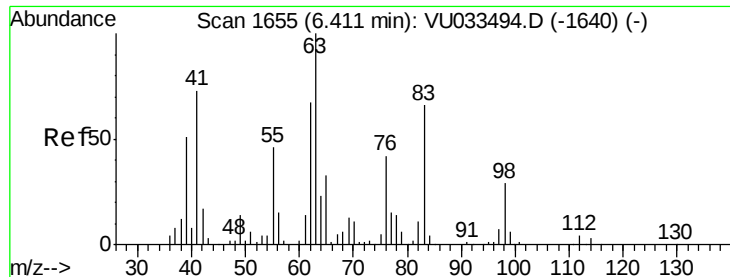
Abundance

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

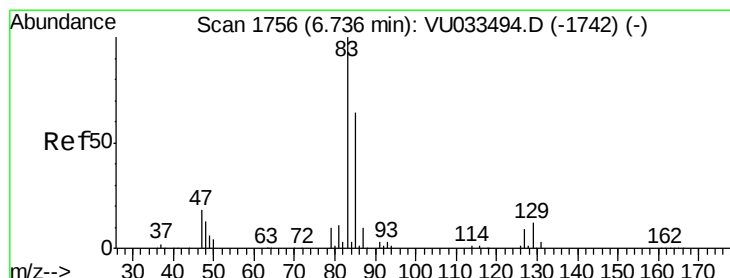
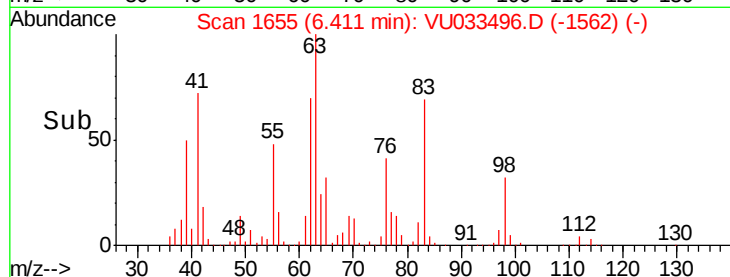
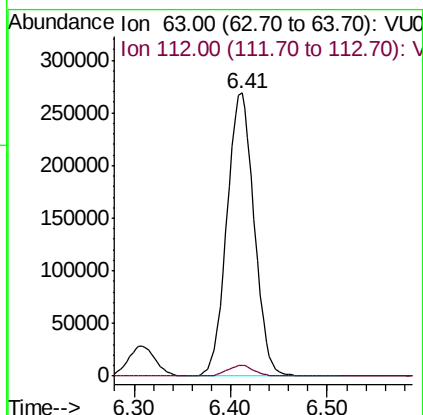
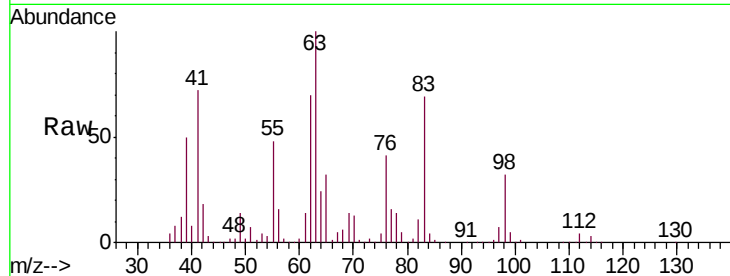




#37
 1,2-Dichloropropane
 Concen: 195.008 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

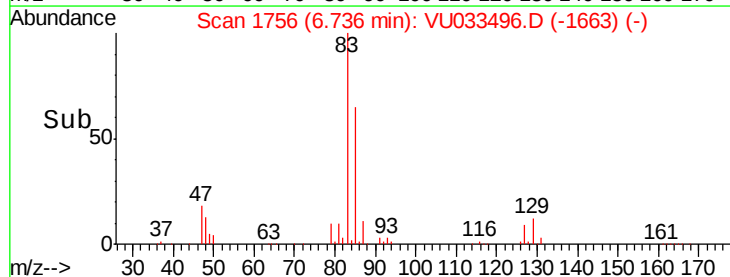
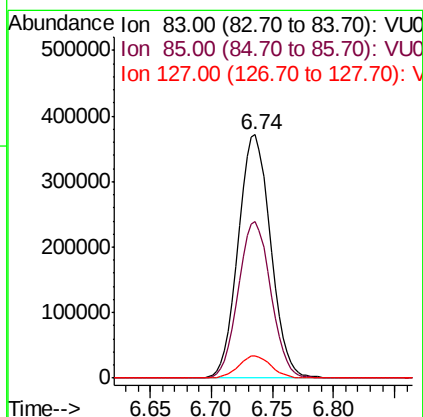
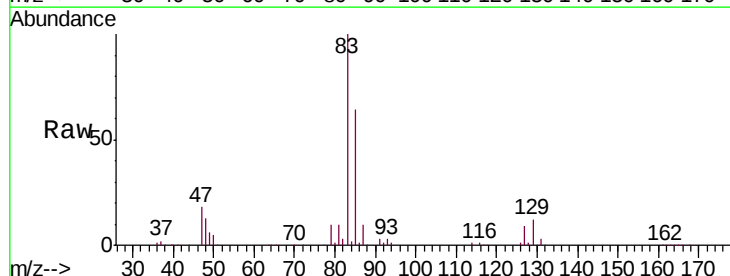
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20032

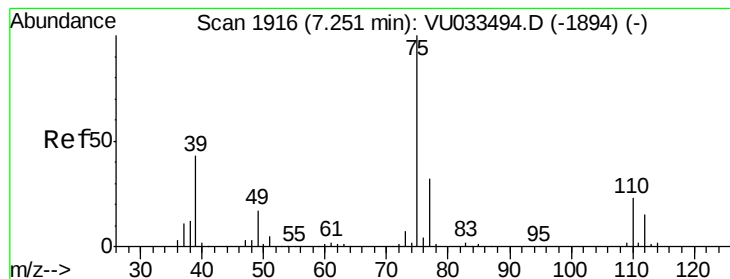
Tgt Ion: 63 Resp: 524243
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 197.259 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Tgt Ion: 83 Resp: 683362
 Ion Ratio Lower Upper
 83 100
 85 64.1 45.1 83.9
 127 9.2 7.2 10.8



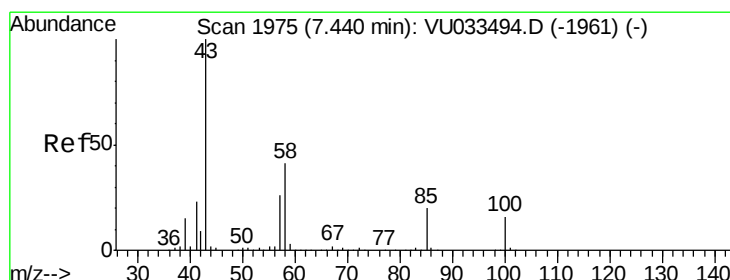
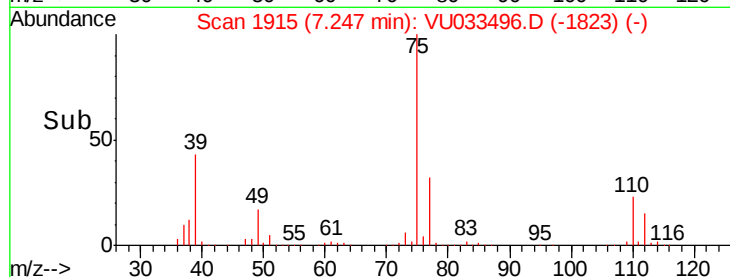
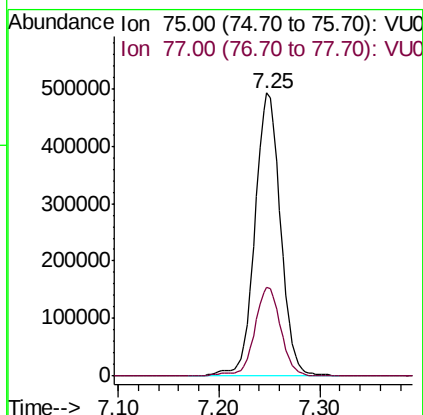
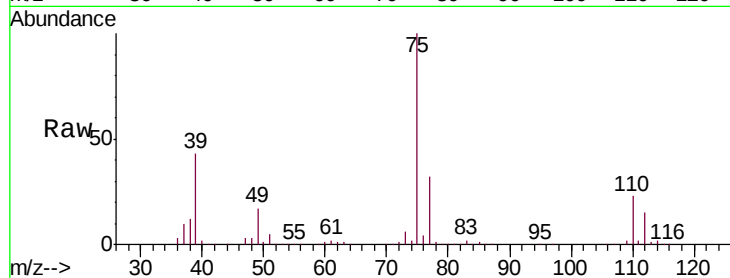


#39

cis-1,3-Dichloropropene
 Concen: 207.795 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20032

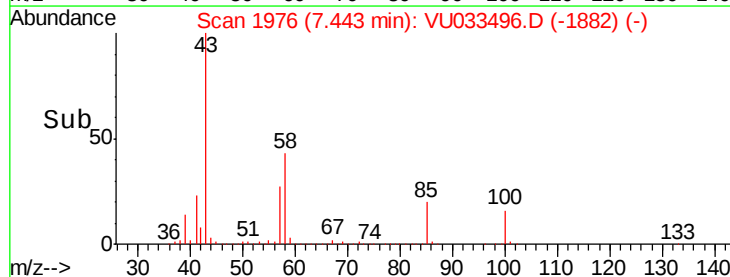
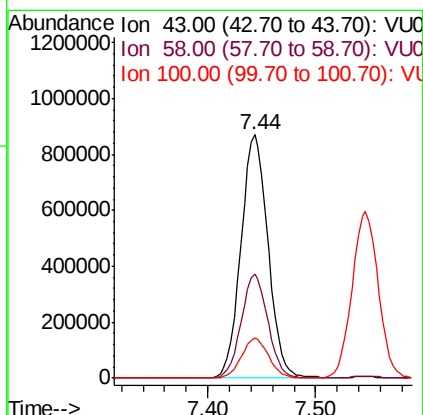
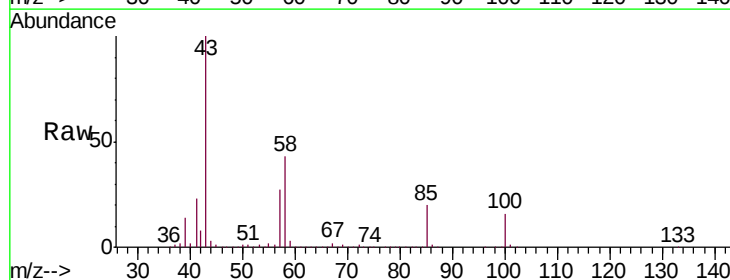
Tgt Ion: 75 Resp: 866011
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.5

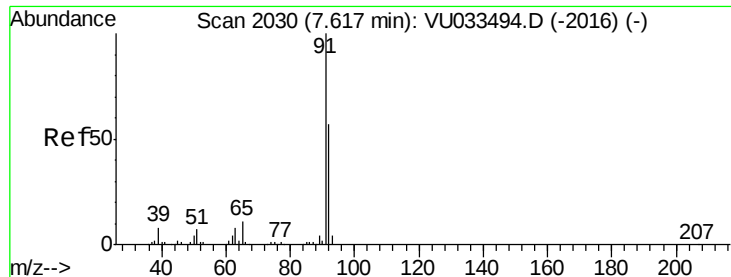


#40

4-Methyl-2-pentanone
 Concen: 417.778 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Tgt Ion: 43 Resp: 1522751
 Ion Ratio Lower Upper
 43 100
 58 42.0 32.8 49.2
 100 16.2 12.9 19.3





#42

Toluene

Concen: 202.067 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

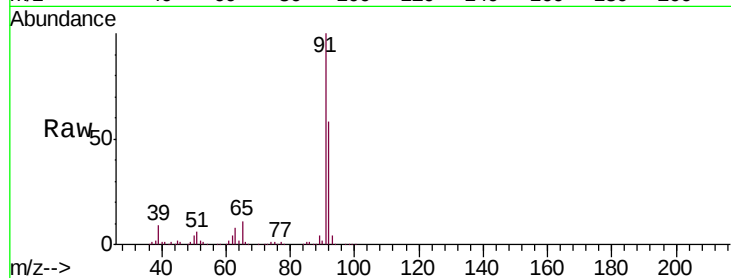
VSTD20032

Tgt Ion: 91 Resp: 2165206

Ion Ratio Lower Upper

91 100

92 57.6 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033496.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033496.D (-2016) (-)

1500000

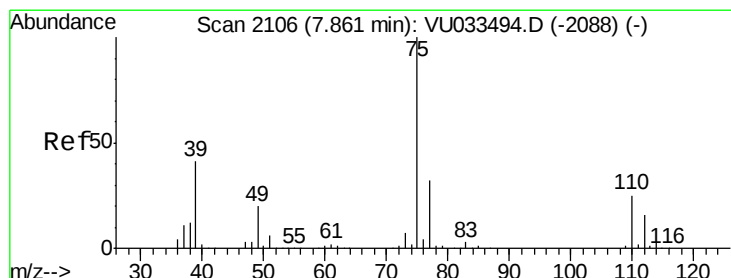
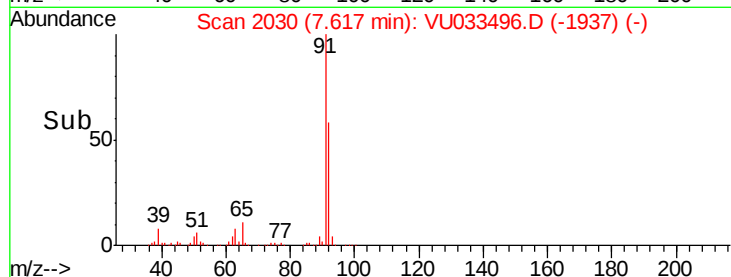
1000000

500000

0

7.50 7.60 7.70 7.80

Time-->



#44

trans-1,3-Dichloropropene

Concen: 209.419 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033496.D

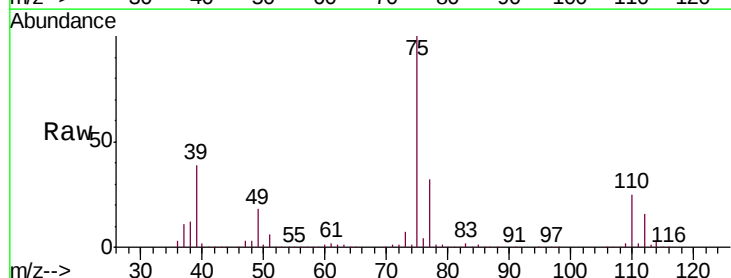
Acq: 30 Jul 2019 16:31

Tgt Ion: 75 Resp: 779221

Ion Ratio Lower Upper

75 100

77 31.7 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033496.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033496.D (-2088) (-)

500000

400000

300000

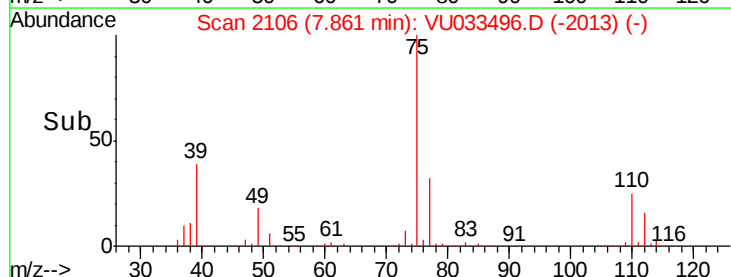
200000

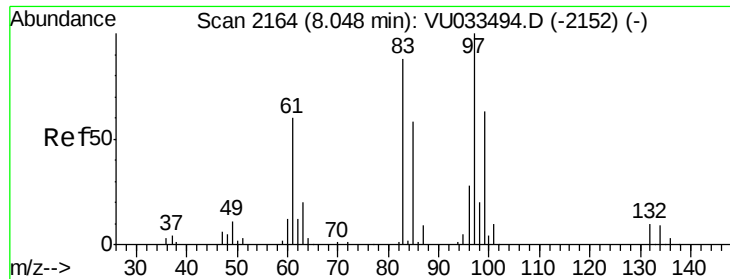
100000

0

7.80 7.90

Time-->

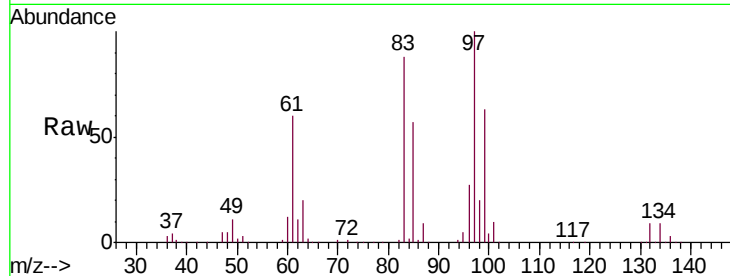




#45
1,1,2-Trichloroethane
Concen: 193.972 ug/L
RT: 8.05 min Scan# 2164
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

Tgt Ion:	97	Resp:	493742
Ion	Ratio	Lower	Upper
97	100		
99	63.2	44.4	82.4
83	87.5	61.5	114.1
85	57.2	40.4	75.0



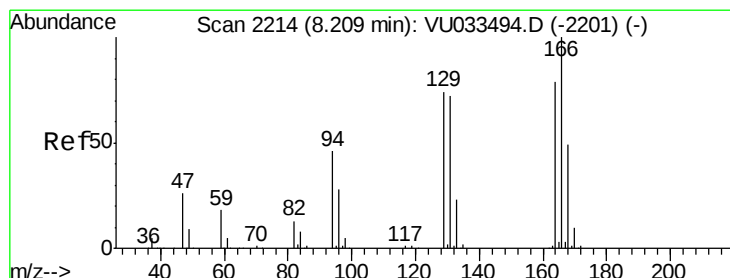
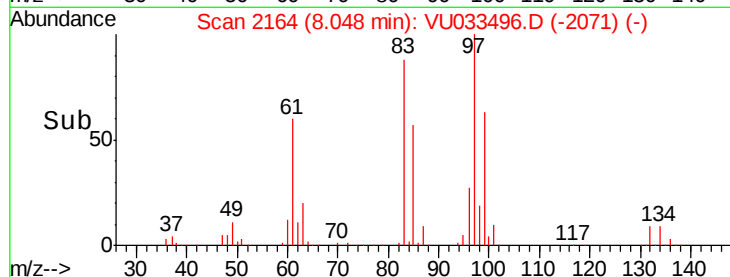
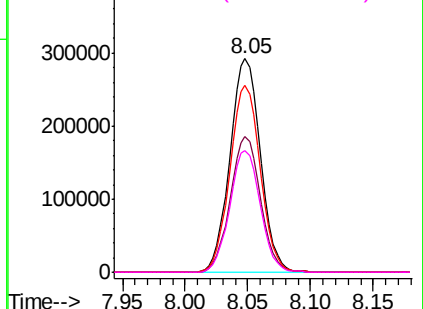
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

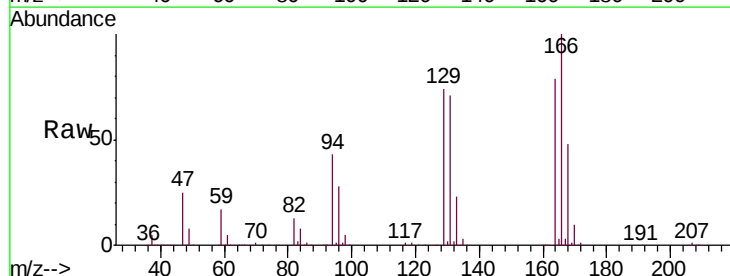
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
Tetrachloroethene
Concen: 210.342 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion:	164	Resp:	428942
Ion	Ratio	Lower	Upper
164	100		
129	93.1	65.5	121.7
131	90.1	63.3	117.7
166	126.1	88.2	163.8



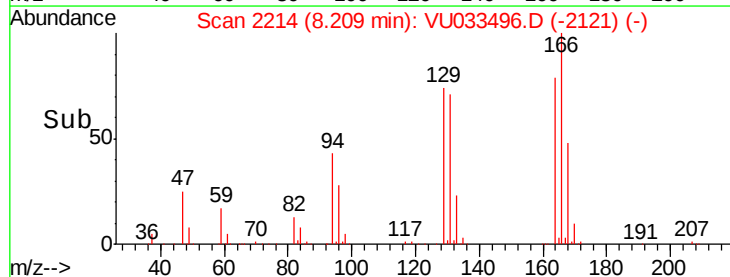
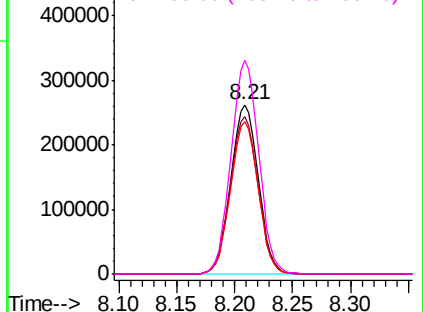
Abundance

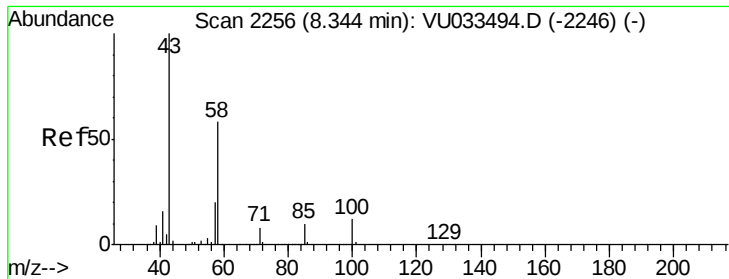
Ion 164.00 (163.70 to 164.70): V

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

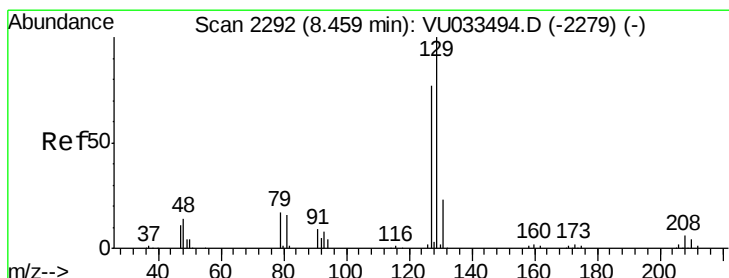
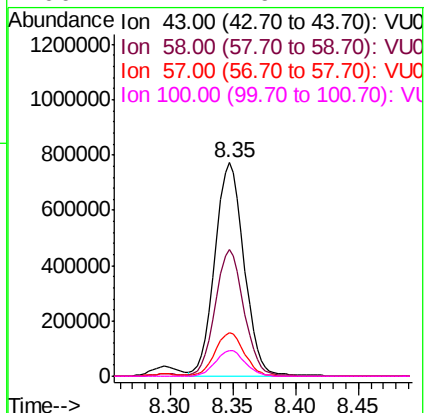
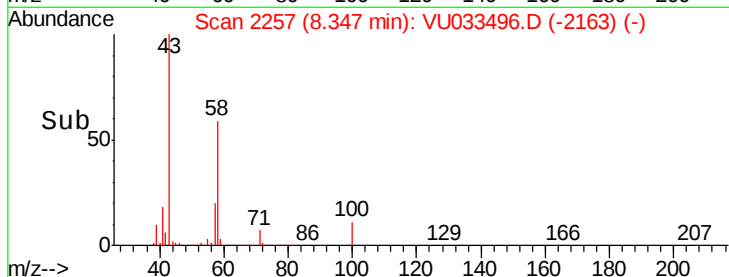
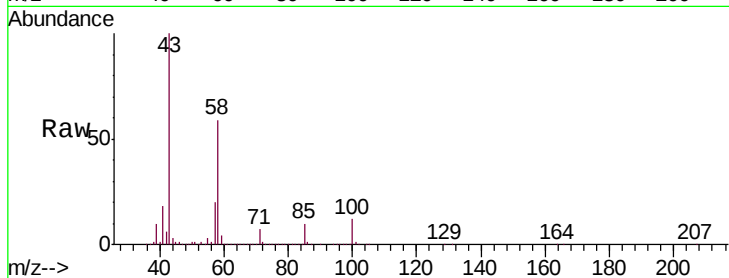




#48
2-Hexanone
Concen: 418.493 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

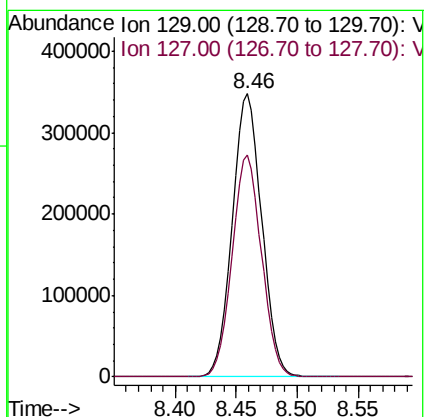
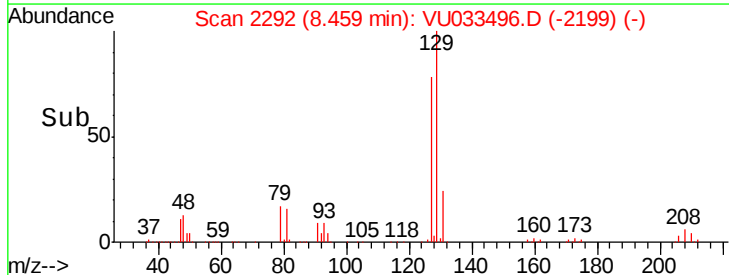
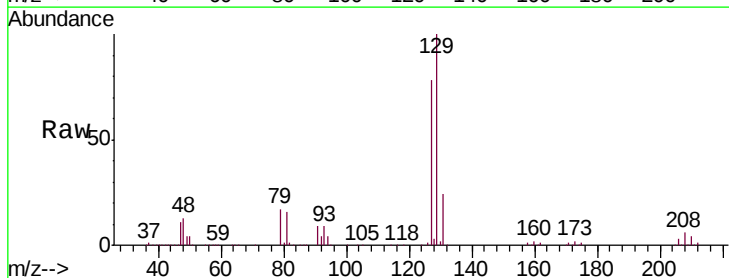
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

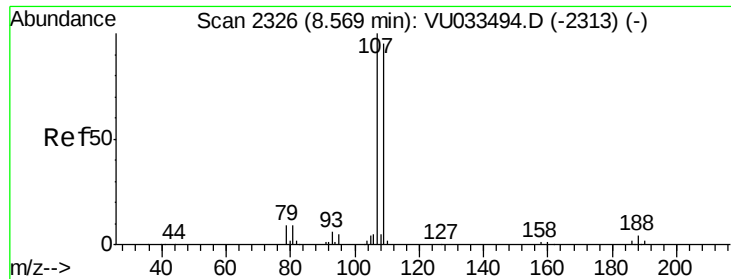
Tgt Ion: 43 Resp: 1241986
Ion Ratio Lower Upper
43 100
58 58.5 45.8 68.6
57 20.4 15.8 23.6
100 12.4 9.4 14.2



#49
Dibromochloromethane
Concen: 204.616 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion: 129 Resp: 584571
Ion Ratio Lower Upper
129 100
127 78.3 53.8 99.8

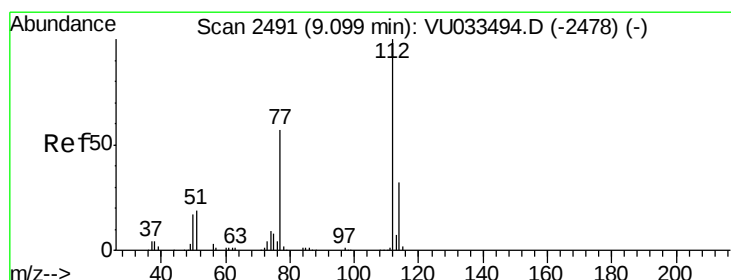
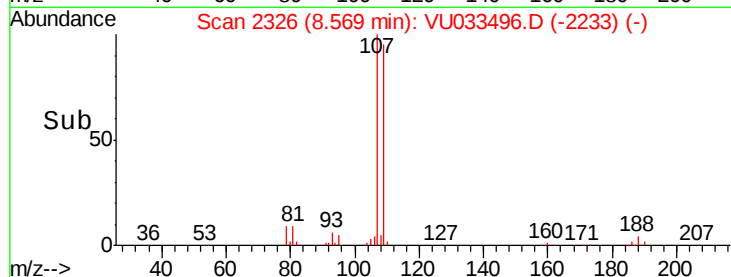
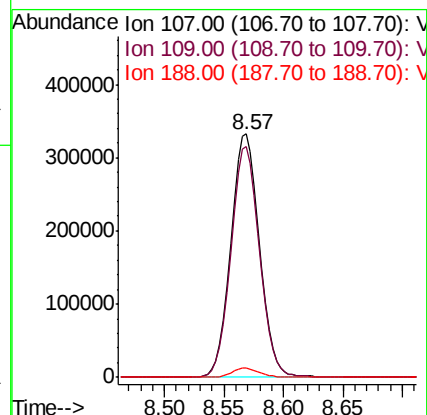
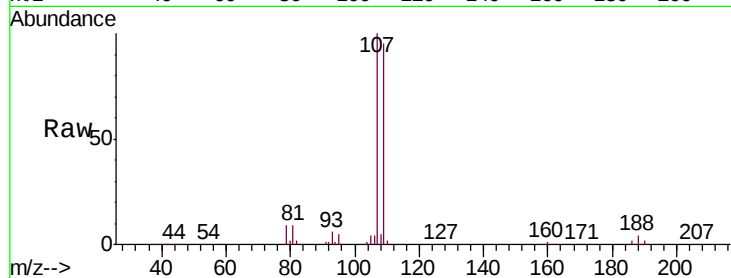




#50
1,2-Dibromoethane
Concen: 198.800 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

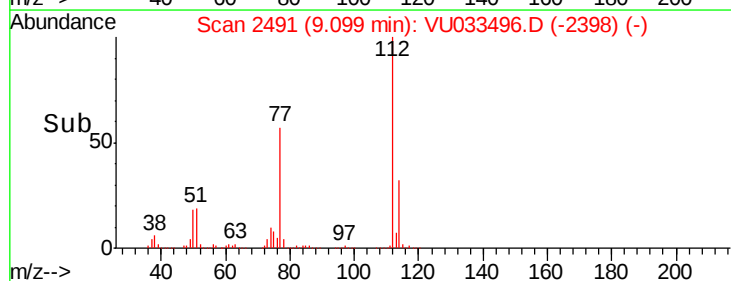
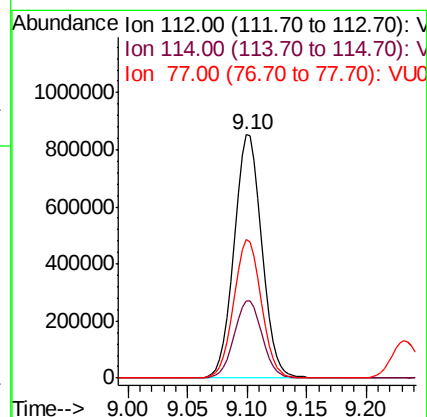
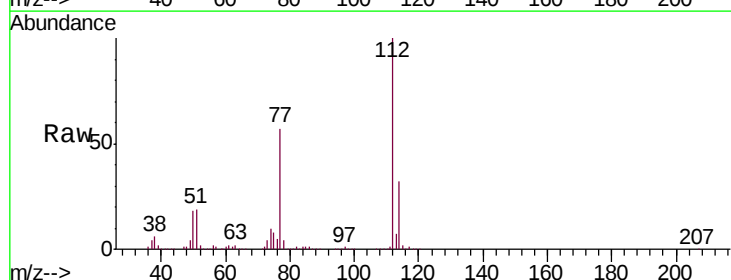
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

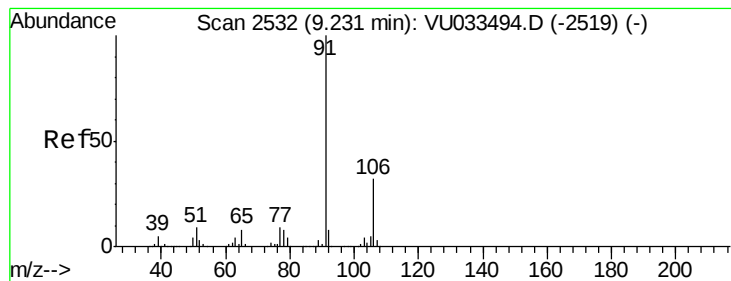
Tgt Ion:107 Resp: 553385
Ion Ratio Lower Upper
107 100
109 94.8 66.8 124.0
188 3.7 3.0 4.4



#51
Chlorobenzene
Concen: 197.208 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion:112 Resp: 1379371
Ion Ratio Lower Upper
112 100
114 31.7 22.3 41.5
77 57.1 45.6 68.4





#52

Ethylbenzene

Concen: 209.446 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

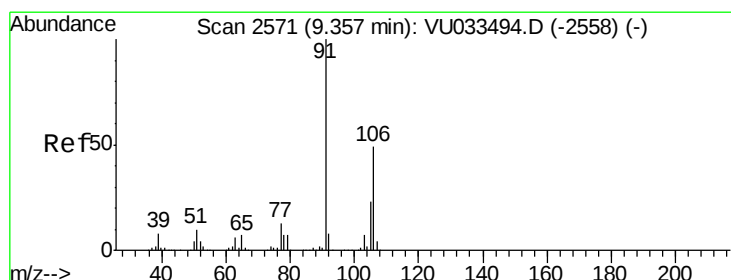
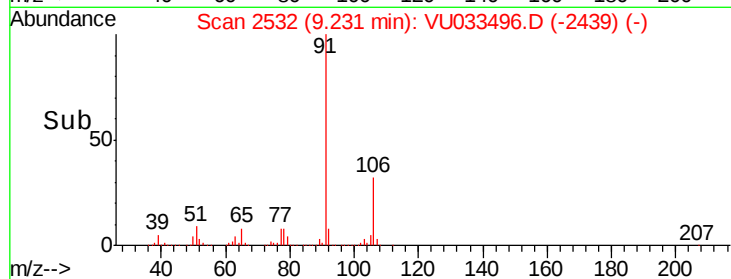
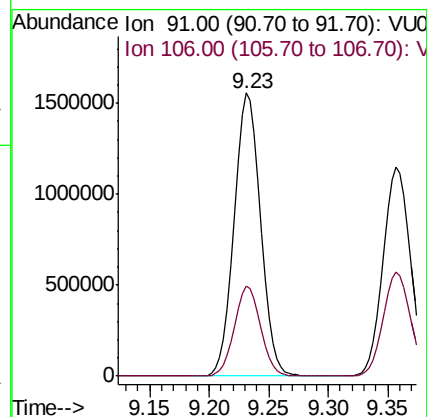
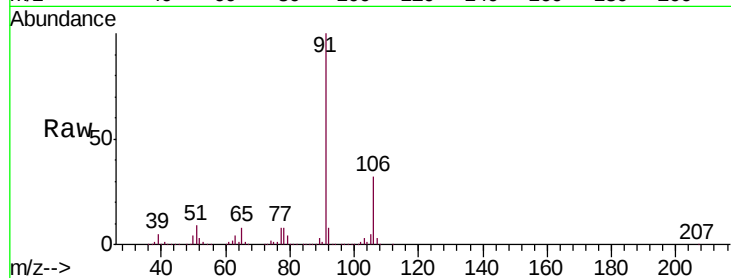
VSTD20032

Tgt Ion: 91 Resp: 2398786

Ion Ratio Lower Upper

91 100

106 31.6 22.2 41.2



#53

m,p-Xylene

Concen: 210.064 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033496.D

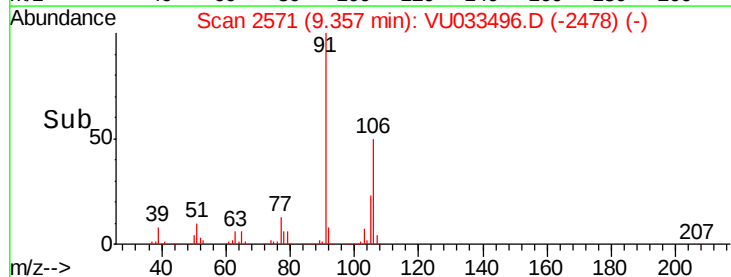
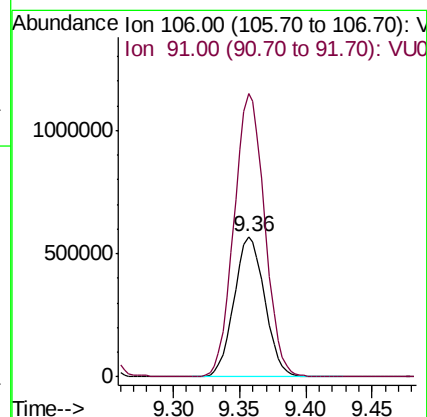
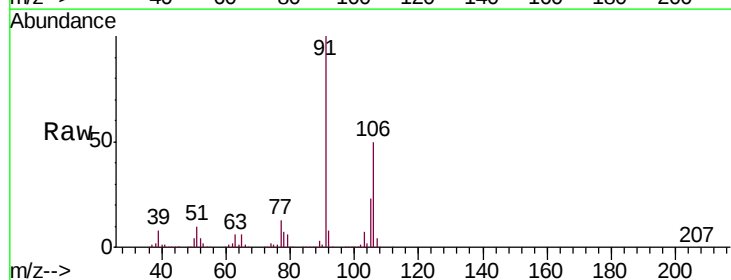
Acq: 30 Jul 2019 16:31

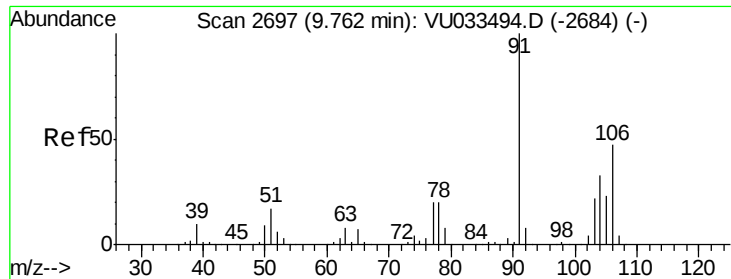
Tgt Ion: 106 Resp: 911190

Ion Ratio Lower Upper

106 100

91 201.7 143.0 265.6

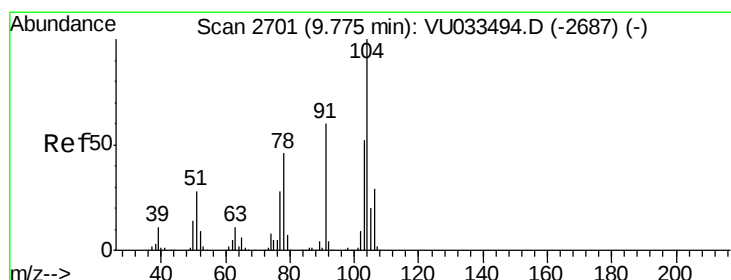
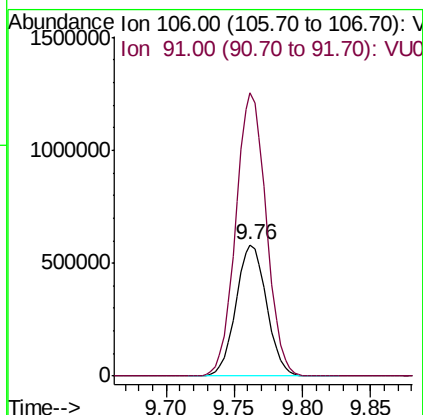
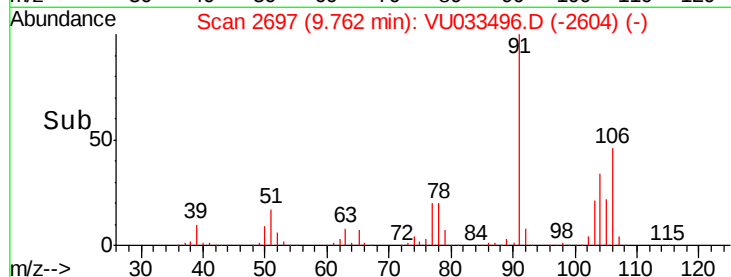
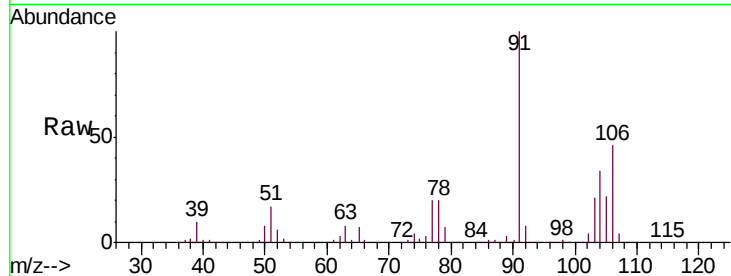




#54
o-xylene
Concen: 209.846 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

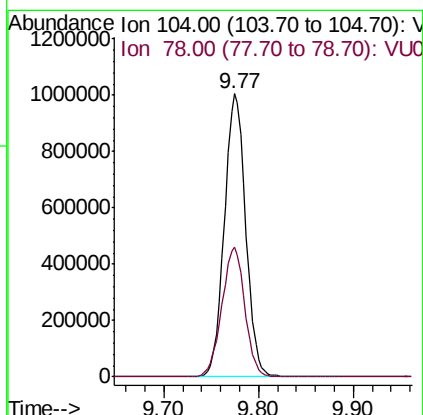
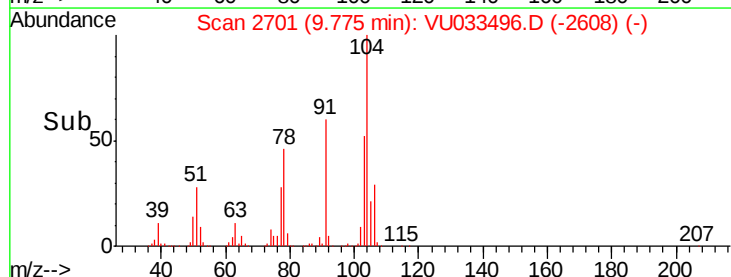
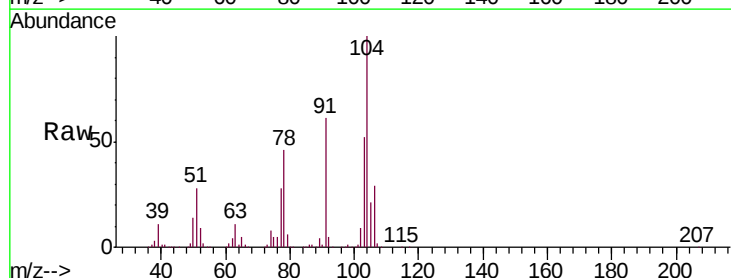
Instrument :
MSVOA_U
ClientSampleId :
VSTD20032

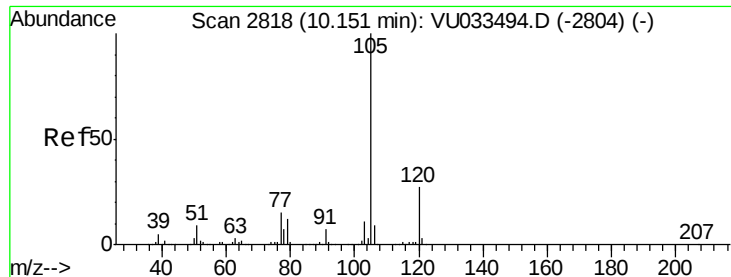
Tgt Ion:106 Resp: 905391
Ion Ratio Lower Upper
106 100
91 215.5 148.4 275.6



#55
Styrene
Concen: 215.792 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU033496.D
Acq: 30 Jul 2019 16:31

Tgt Ion:104 Resp: 1576737
Ion Ratio Lower Upper
104 100
78 45.8 32.2 59.8





#56

Isopropylbenzene

Concen: 214.331 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20032

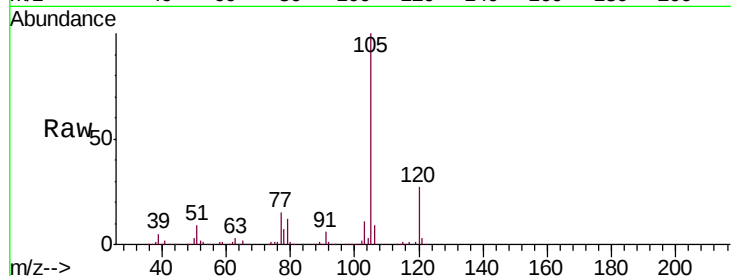
Tgt Ion:105 Resp: 2379621

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

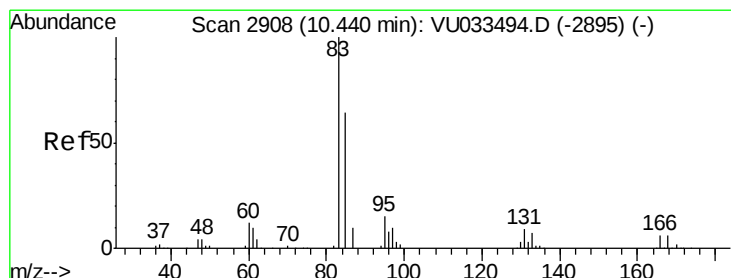
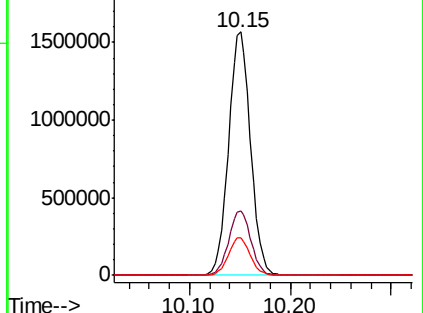
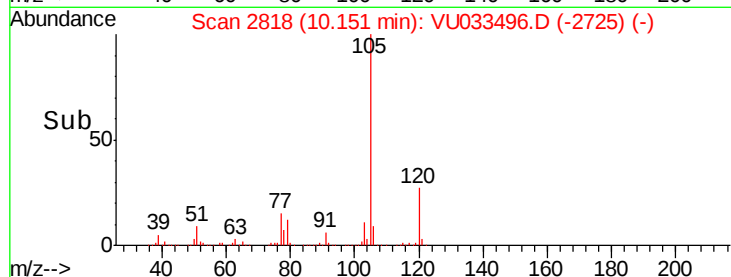
77 15.4 12.5 18.7



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: 204.676 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

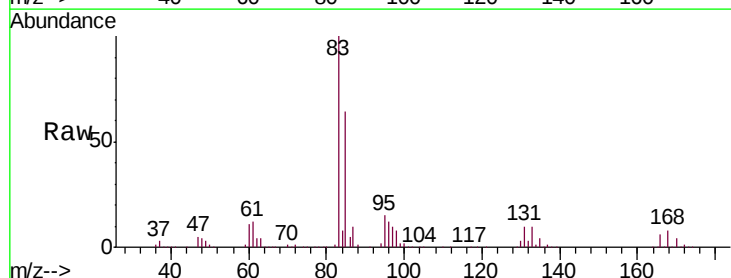
Tgt Ion: 83 Resp: 919228

Ion Ratio Lower Upper

83 100

85 64.2 45.4 84.4

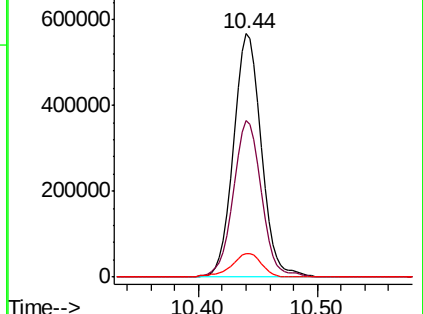
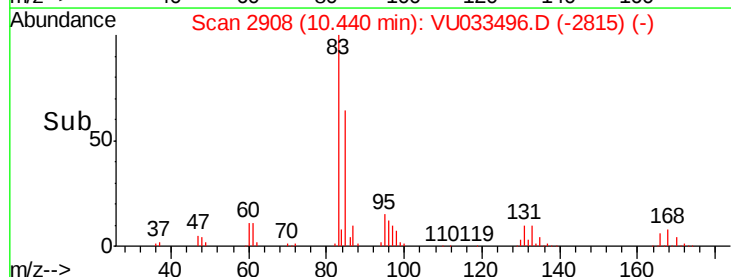
131 9.8 7.9 11.9

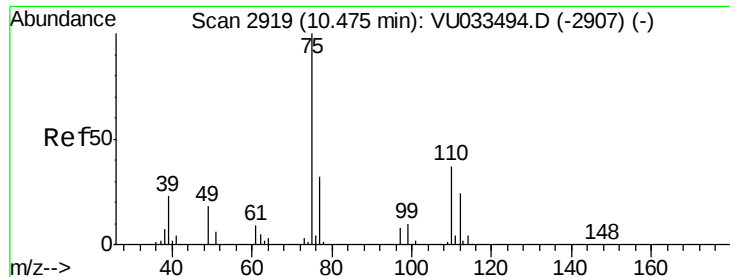


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

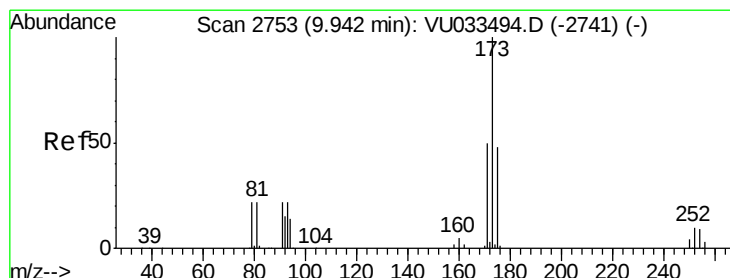
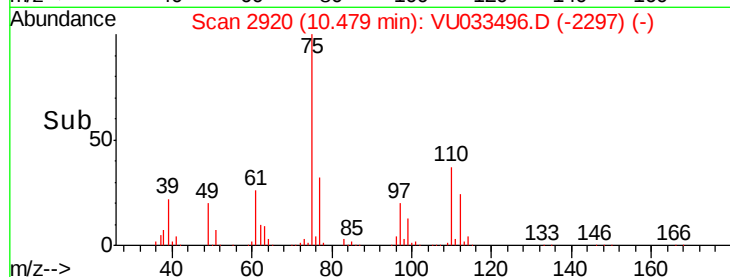
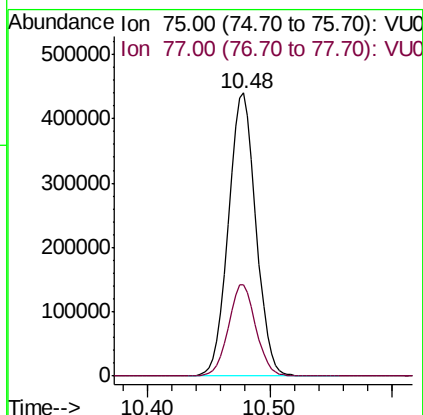
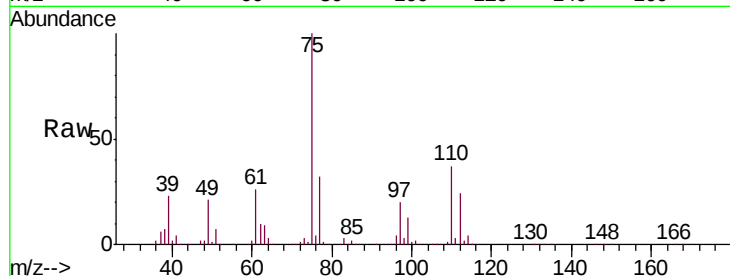




#59
 1,2,3-Trichloropropane
 Concen: 196.935 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

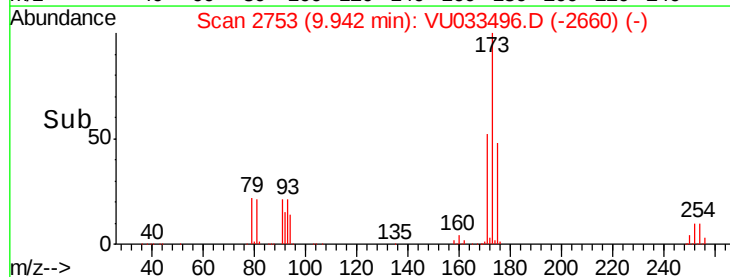
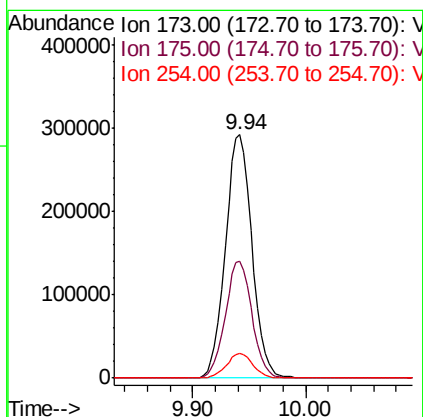
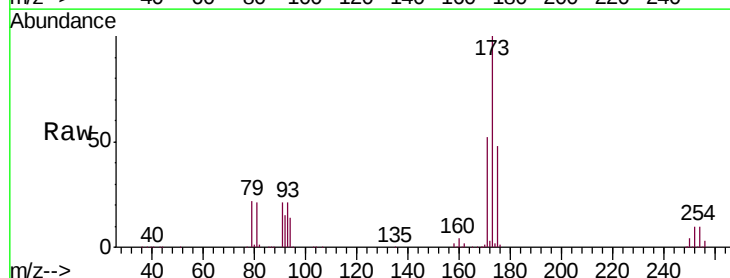
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20032

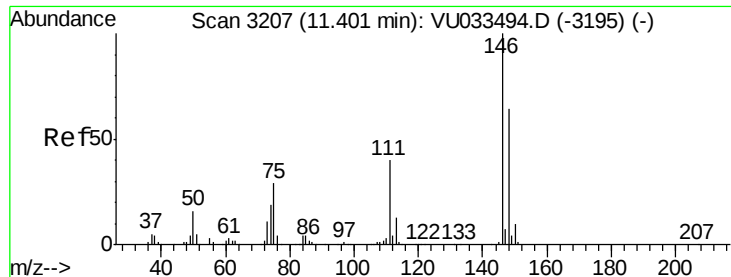
Tgt Ion: 75 Resp: 693323
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.8 38.6



#61
 Bromoform
 Concen: 196.446 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Tgt Ion: 173 Resp: 477111
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.7 58.1
 254 10.1 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 193.553 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampled :

VSTD20032

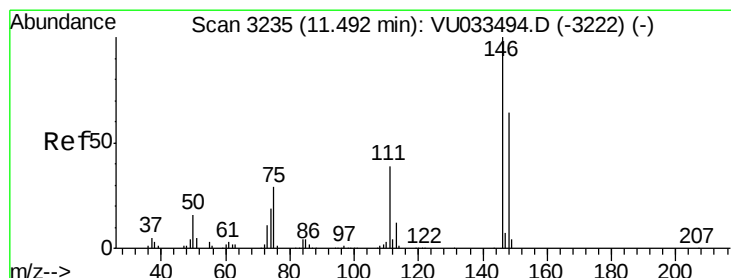
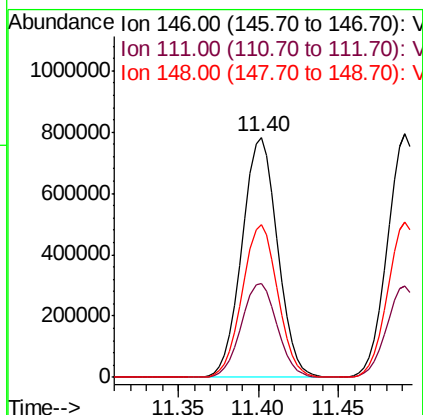
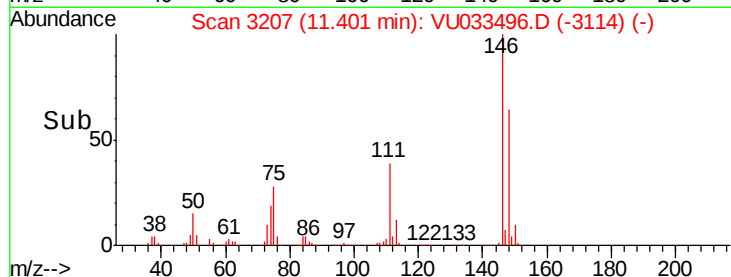
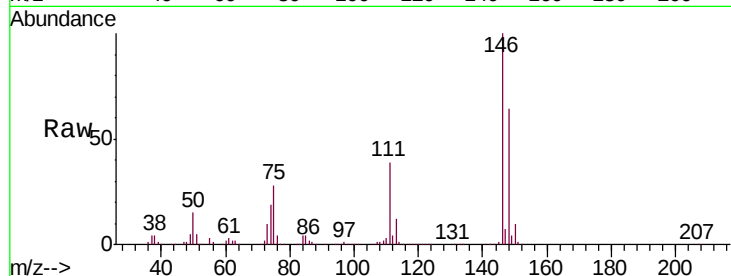
Tgt Ion:146 Resp: 1181630

Ion Ratio Lower Upper

146 100

111 39.3 28.1 52.1

148 63.6 45.0 83.6



#63

1,4-Dichlorobenzene

Concen: 188.937 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

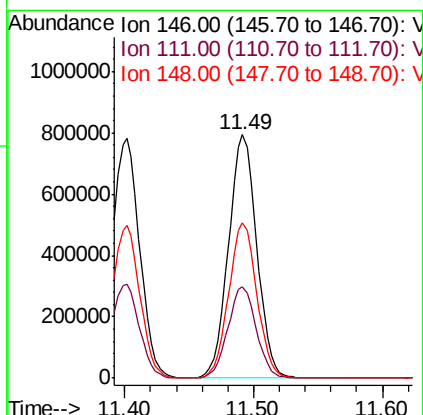
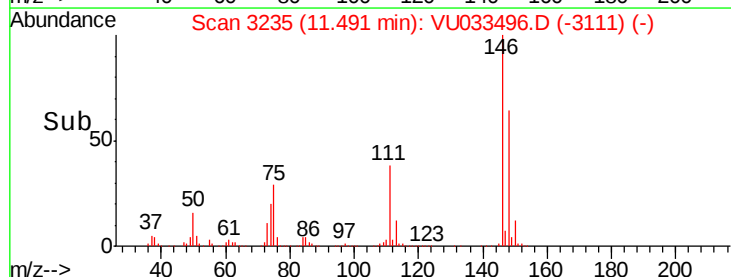
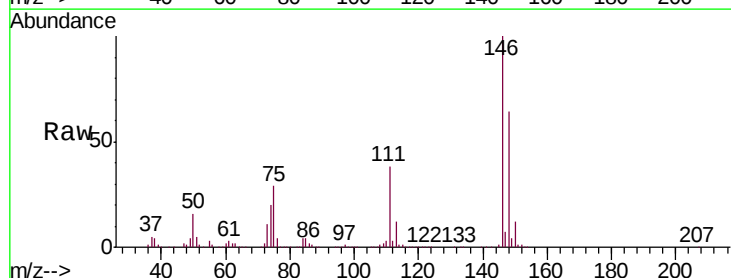
Tgt Ion:146 Resp: 1201577

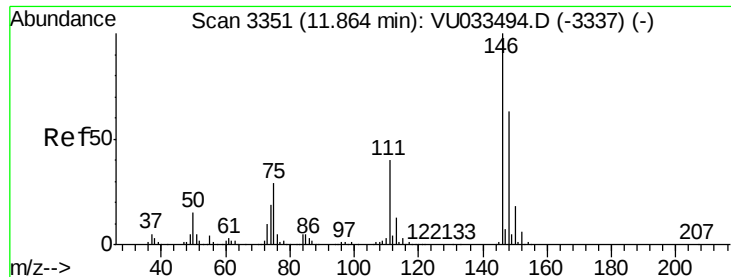
Ion Ratio Lower Upper

146 100

111 37.7 27.2 50.4

148 64.0 44.5 82.7

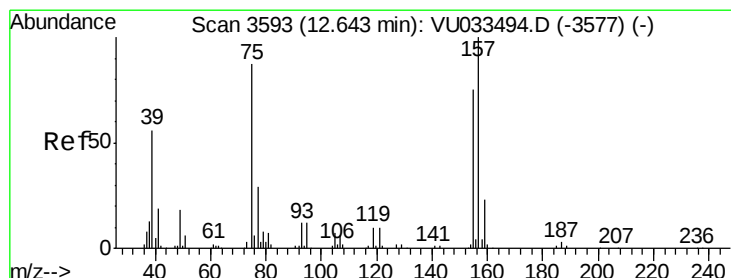
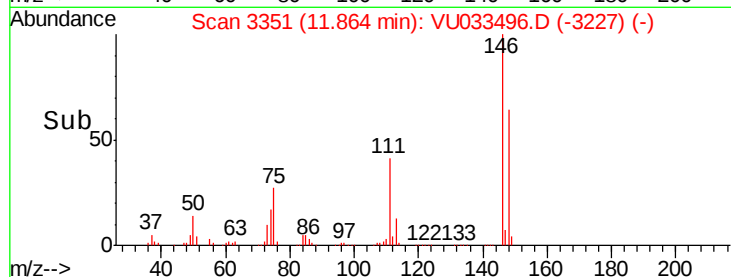
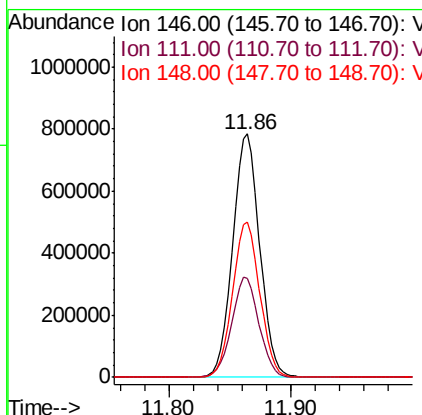
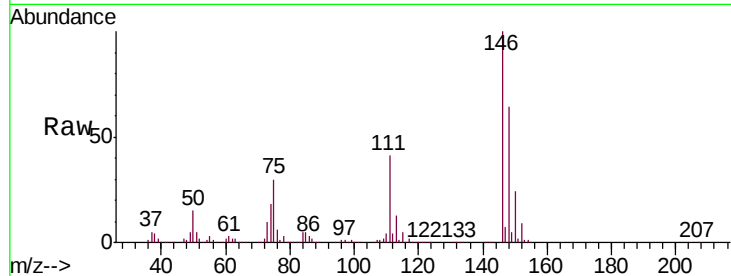




#65
 1,2-Dichlorobenzene
 Concen: 193.635 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

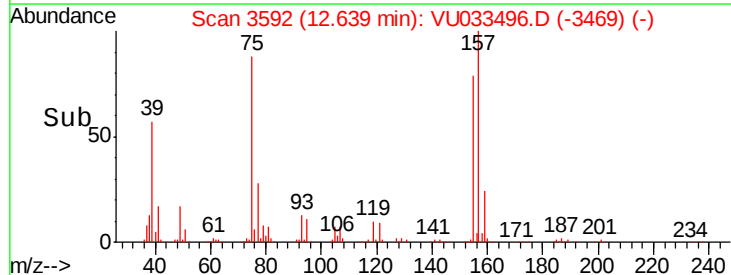
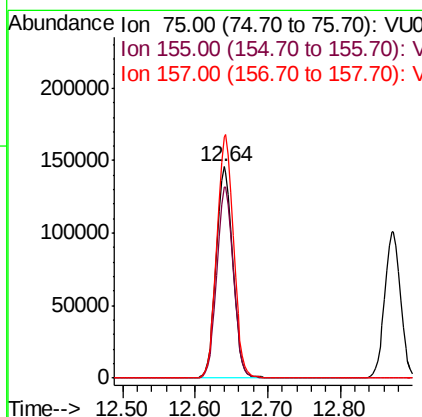
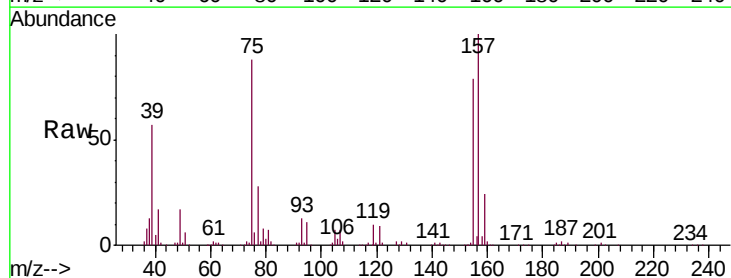
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20032

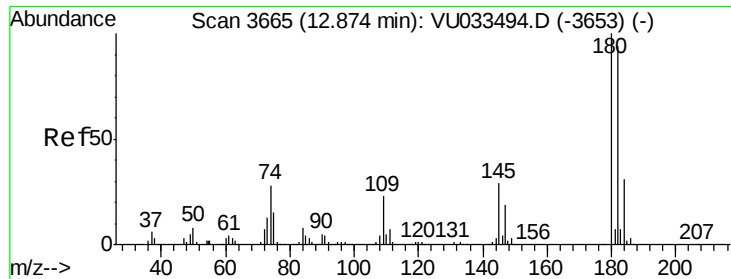
Tgt Ion:146 Resp: 1207869
 Ion Ratio Lower Upper
 146 100
 111 40.7 31.7 47.5
 148 63.7 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 196.622 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Tgt Ion: 75 Resp: 233586
 Ion Ratio Lower Upper
 75 100
 155 90.3 69.4 104.0
 157 113.8 91.8 137.8

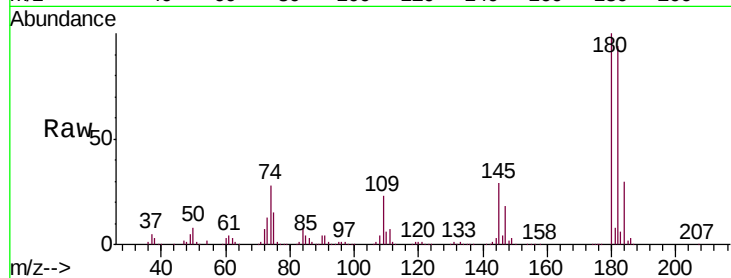




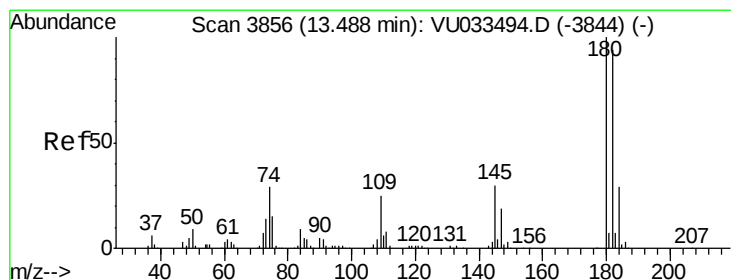
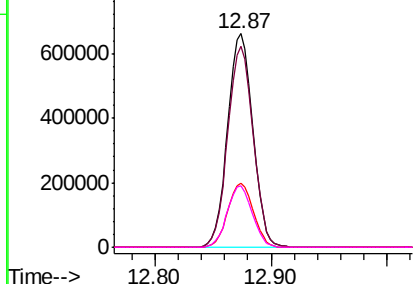
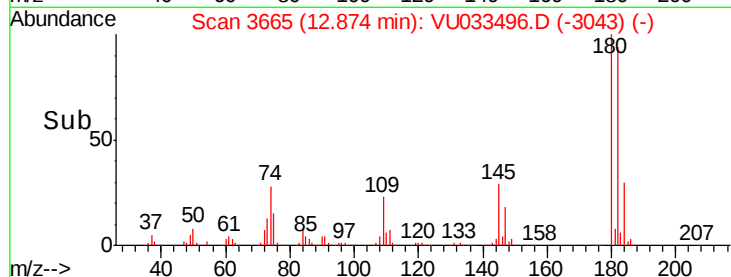
#67
 1,3,5-Trichlorobenzene
 Concen: 222.126 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20032

Tgt Ion:180 Resp: 994242
 Ion Ratio Lower Upper
 180 100
 182 94.9 75.6 113.4
 184 30.5 24.2 36.2
 145 28.8 22.7 34.1

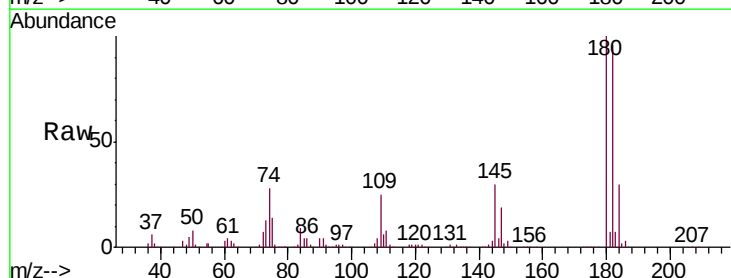


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

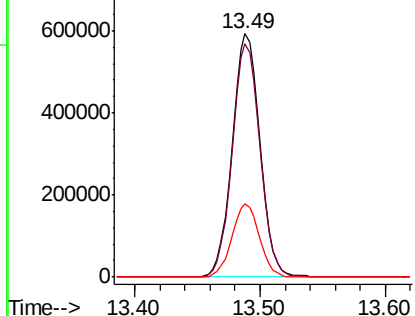
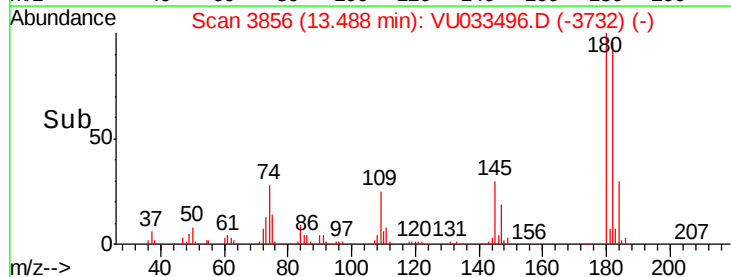


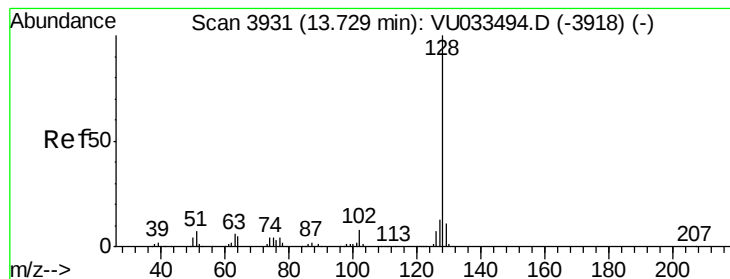
#68
 1,2,4-trichlorobenzene
 Concen: 232.774 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033496.D
 Acq: 30 Jul 2019 16:31

Tgt Ion:180 Resp: 910647
 Ion Ratio Lower Upper
 180 100
 182 96.0 75.8 113.8
 145 29.8 24.3 36.5



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: 224.109 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD20032

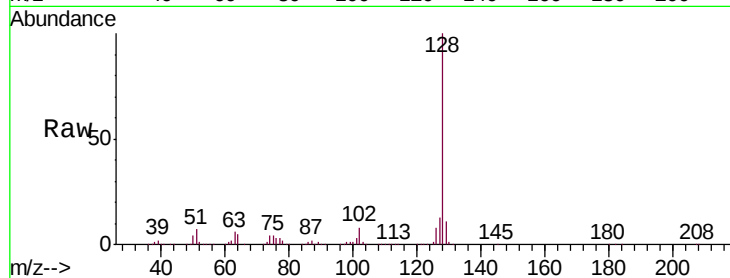
Tgt Ion:128 Resp: 2748672

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

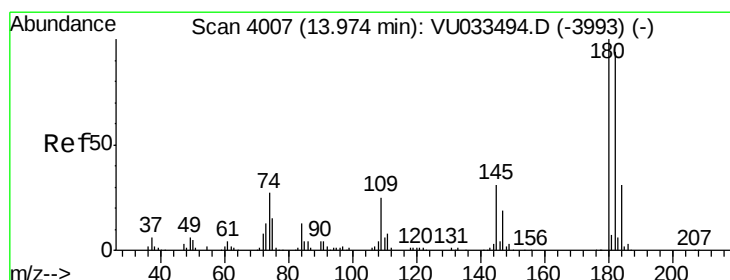
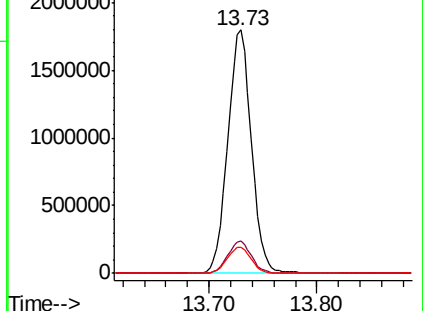
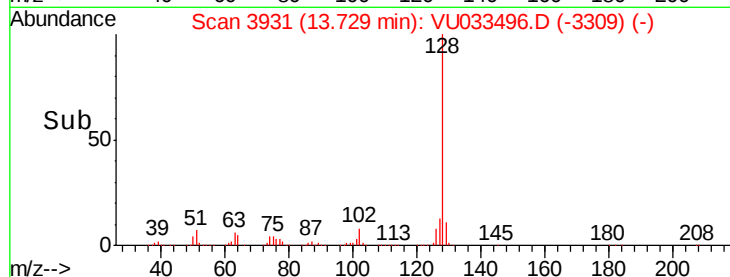
129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 217.621 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033496.D

Acq: 30 Jul 2019 16:31

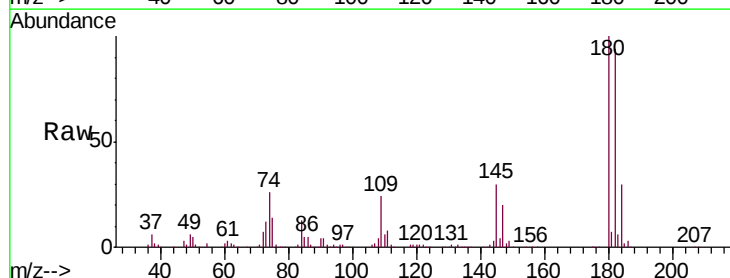
Tgt Ion:180 Resp: 924621

Ion Ratio Lower Upper

180 100

182 94.3 75.5 113.3

145 30.5 24.4 36.6



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

