

Data File : VU033211.D
Acq On : 12 Jul 2019 10:04
Operator : JC/SP
Sample : VSTD05034
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Quant Time: Jul 12 23:32:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 12 23:28:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	328911	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	343420	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	173549	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	118489	52.13	ug/L	0.00
7) Chloroethane-d5	1.67	69	102878	55.89	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	235998	51.66	ug/L	0.00
21) 2-Butanone-d5	4.15	46	150862	84.10	ug/L	0.00
24) Chloroform-d	4.62	84	198890	46.47	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	126685	44.61	ug/L	0.00
32) Benzene-d6	5.32	84	399362	45.82	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	124272	44.97	ug/L	0.00
41) Toluene-d8	7.55	98	379001	46.28	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	63630	44.33	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	113781	87.99	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	188912	43.98	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	143203	43.82	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	152885	46.741	ug/L	100
3) Chloromethane	1.32	50	151735	50.211	ug/L	100
5) Vinyl chloride	1.40	62	173598	56.290	ug/L	100
6) Bromomethane	1.61	94	99967	55.476	ug/L	100
8) Chloroethane	1.69	64	107882	59.541	ug/L	100
9) Trichlorofluoromethane	1.87	101	231125	54.095	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	111085	50.372	ug/L	100
12) 1,1-Dichloroethene	2.27	96	108130	51.601	ug/L	100
13) Acetone	2.31	43	175173	72.133	ug/L	100
14) Carbon disulfide	2.46	76	317265	48.548	ug/L	100
15) Methyl Acetate	2.60	43	121119	42.682	ug/L	100
16) Methylene chloride	2.68	84	118085	48.782	ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	107344	48.089	ug/L	100
18) Methyl tert-butyl Ether	2.98	73	336048	47.281	ug/L	100
19) 1,1-Dichloroethane	3.42	63	206111	48.588	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	121782	49.781	ug/L	100
22) 2-Butanone	4.23	43	205888	80.702	ug/L	100
23) Bromochloromethane	4.52	128	62249	49.185	ug/L	100
25) Chloroform	4.65	83	216745	49.260	ug/L	100
27) 1,2-Dichloroethane	5.38	62	172527	48.203	ug/L	100
29) Cyclohexane	4.97	56	177259	45.240	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	182365	44.742	ug/L	100
31) Carbon tetrachloride	5.11	117	161411	43.760	ug/L	100
33) Benzene	5.37	78	468791	47.895	ug/L	100
34) Trichloroethene	6.16	95	119406	45.971	ug/L	100
35) Methylcyclohexane	6.40	83	188416	46.931	ug/L	100
37) 1,2-Dichloropropane	6.41	63	125726	47.020	ug/L	100
38) Bromodichloromethane	6.74	83	163757	45.808	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	186529	45.198	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	337999	81.353	ug/L	100

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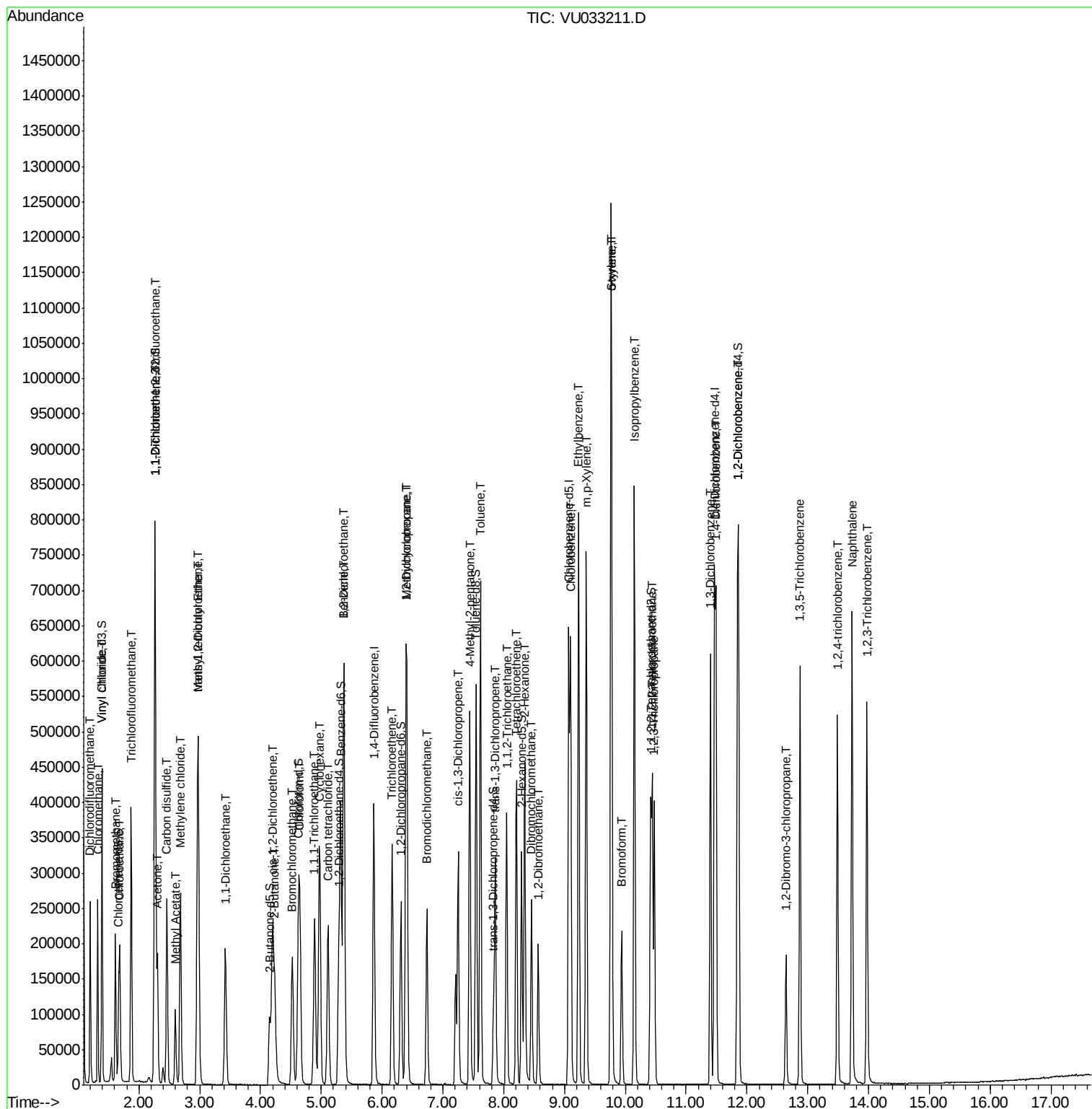
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	511982	48.338	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	179429	46.163	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	119066	47.745	ug/L	100
46) Tetrachloroethene	8.21	164	93232	44.221	ug/L	100
48) 2-Hexanone	8.34	43	279445	77.289	ug/L	100
49) Dibromochloromethane	8.46	129	132281	44.653	ug/L	100
50) 1,2-Dibromoethane	8.57	107	130840	47.306	ug/L	100
51) Chlorobenzene	9.10	112	326058	46.858	ug/L	100
52) Ethylbenzene	9.23	91	553793	47.384	ug/L	100
53) m,p-Xylene	9.36	106	210850	47.730	ug/L	100
54) o-xylene	9.76	106	209729	48.512	ug/L	100
55) Styrene	9.77	104	361871	48.402	ug/L	100
56) Isopropylbenzene	10.15	105	539393	46.630	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	209659	46.377	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	162473	45.596	ug/L	100
61) Bromoform	9.94	173	95410	43.366	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	242845	45.726	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	252689	45.950	ug/L	100
65) 1,2-Dichlorobenzene	11.86	146	251420	46.257	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	46610	45.322	ug/L	100
67) 1,3,5-Trichlorobenzene	12.87	180	180170	42.727	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	157455	43.733	ug/L	100
69) Naphthalene	13.73	128	525062	46.856	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	165364	43.269	ug/L	100

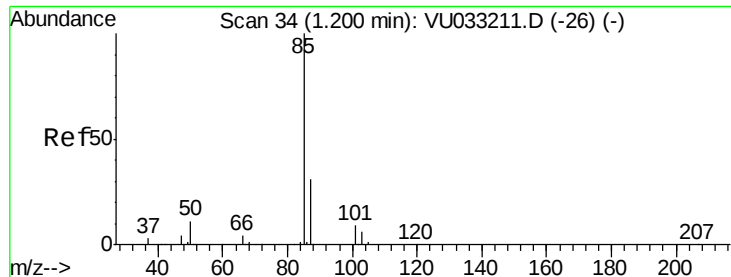
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.741 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

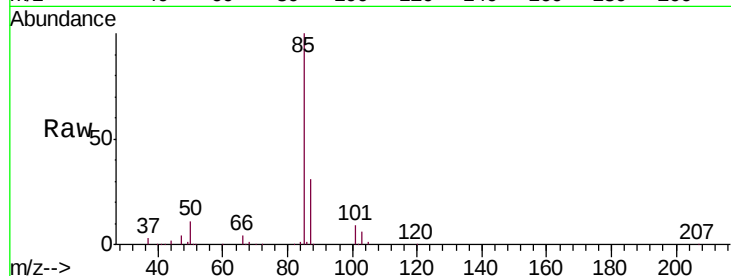
VSTD05034

Tgt Ion: 85 Resp: 152885

Ion Ratio Lower Upper

85 100

87 31.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033211.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033211.D (-26) (-)

1.20

150000

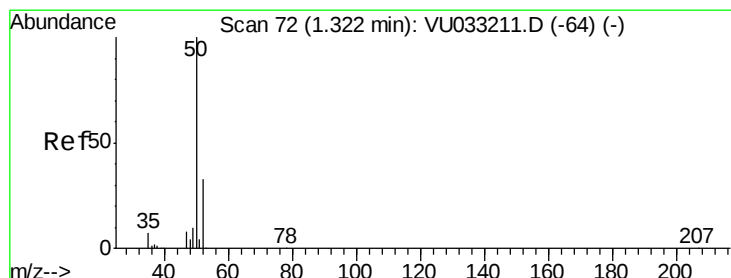
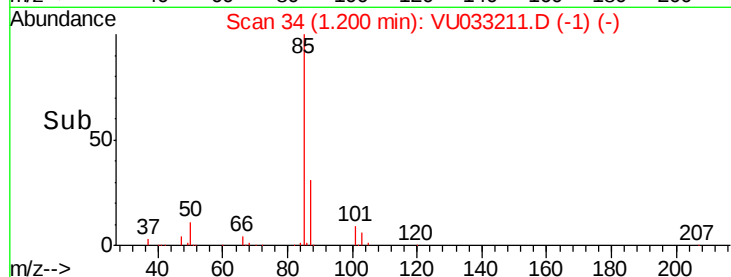
100000

50000

0

Time-->

1.15 1.20 1.25



#3

Chloromethane

Concen: 50.211 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033211.D

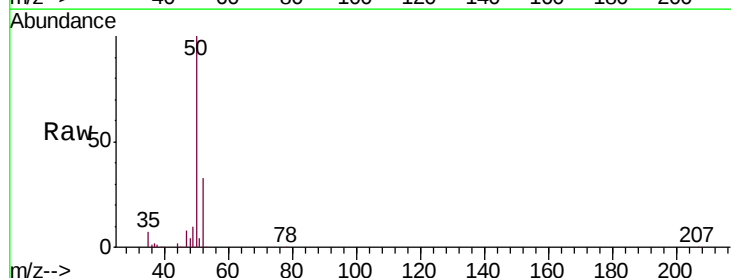
Acq: 12 Jul 2019 10:04

Tgt Ion: 50 Resp: 151735

Ion Ratio Lower Upper

50 100

52 33.1 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033211.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033211.D (-64) (-)

1.32

150000

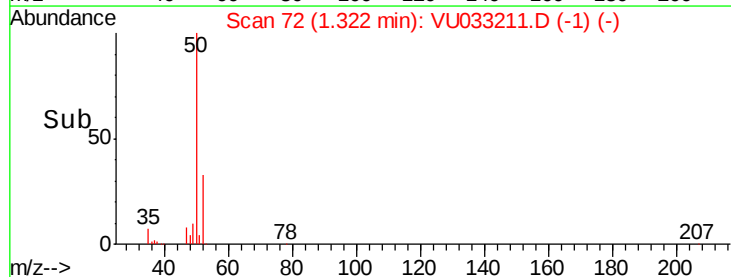
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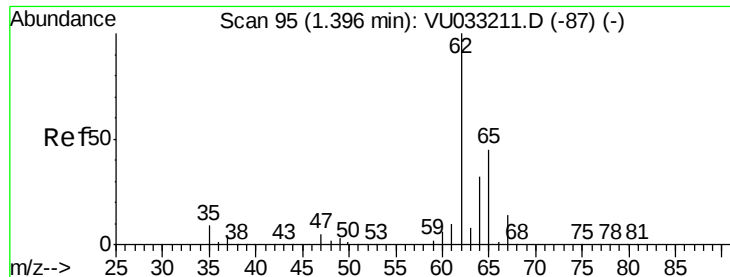
50000

0

Time-->

1.30 1.35





#5

Vinyl chloride

Concen: 56.290 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

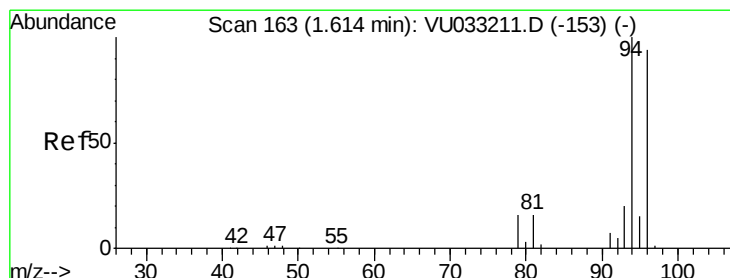
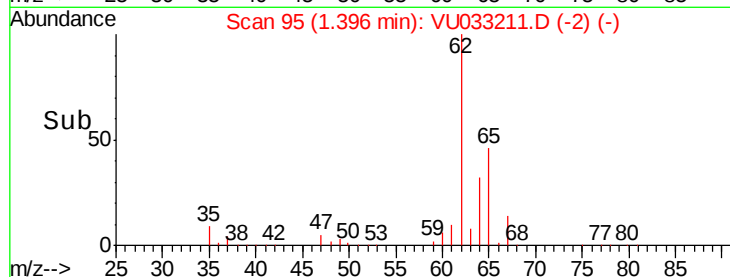
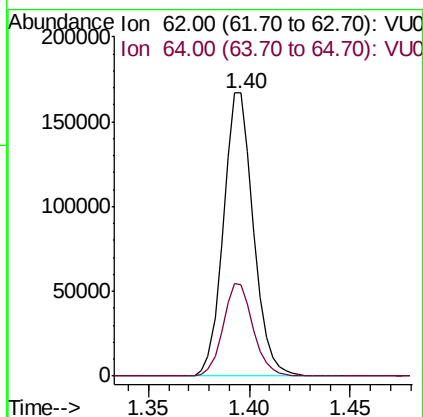
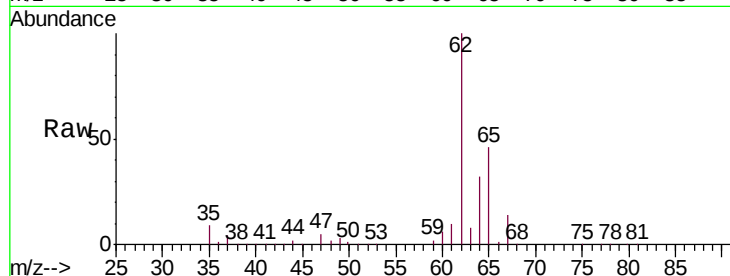
VSTD05034

Tgt Ion: 62 Resp: 173598

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.3



#6

Bromomethane

Concen: 55.476 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033211.D

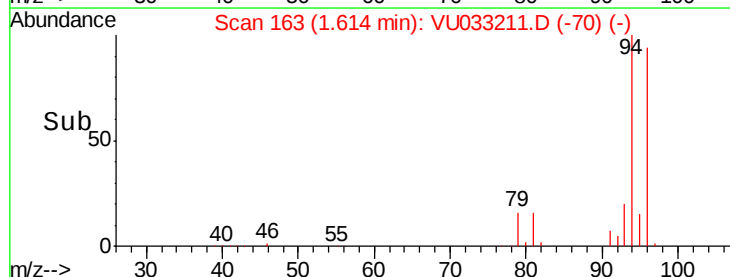
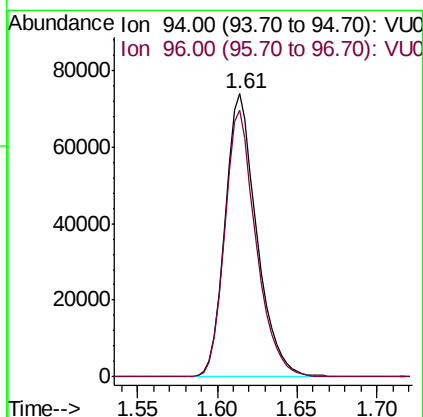
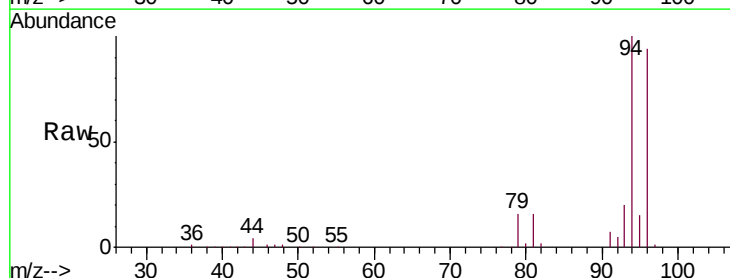
Acq: 12 Jul 2019 10:04

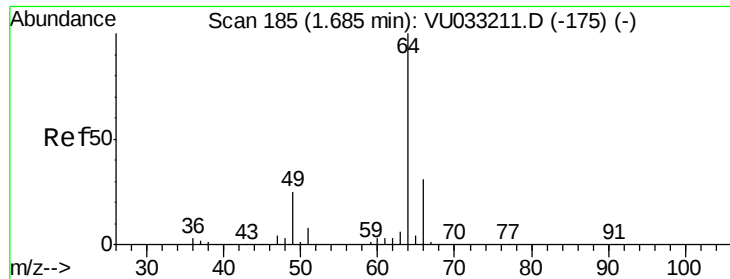
Tgt Ion: 94 Resp: 99967

Ion Ratio Lower Upper

94 100

96 94.4 66.1 122.7





#8

Chloroethane

Concen: 59.541 ug/L

RT: 1.69 min Scan# 185

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

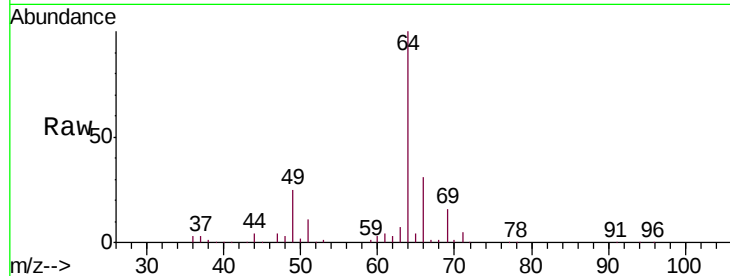
VSTD05034

Tgt Ion: 64 Resp: 107882

Ion Ratio Lower Upper

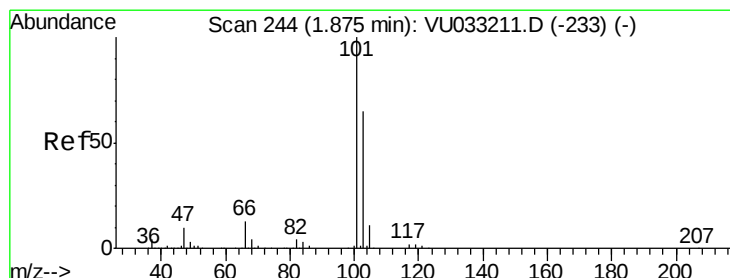
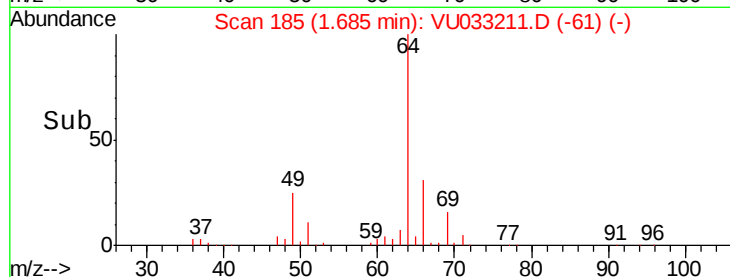
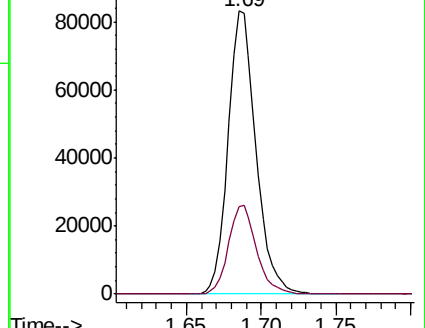
64 100

66 30.8 21.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VU033211.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033211.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 54.095 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033211.D

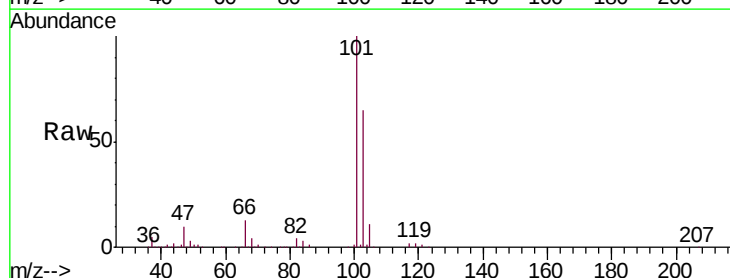
Acq: 12 Jul 2019 10:04

Tgt Ion: 101 Resp: 231125

Ion Ratio Lower Upper

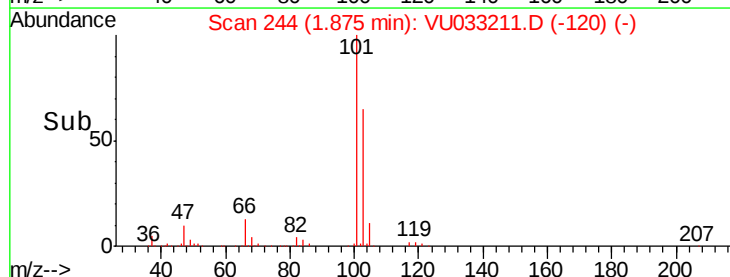
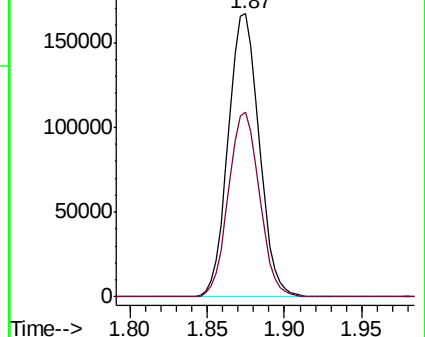
101 100

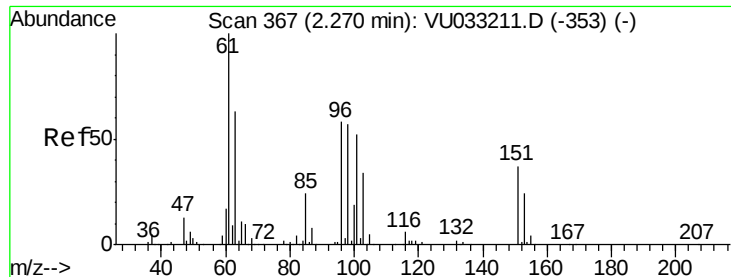
103 65.3 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033211.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033211.D (-233) (-)





#10

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

Concen: 50.372 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

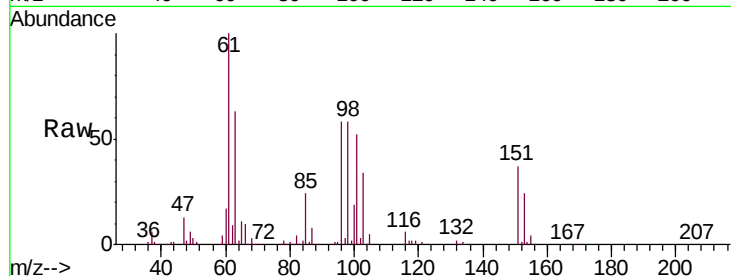
Tgt Ion:101 Resp: 111085

Ion Ratio Lower Upper

101 100

85 44.8 35.8 53.8

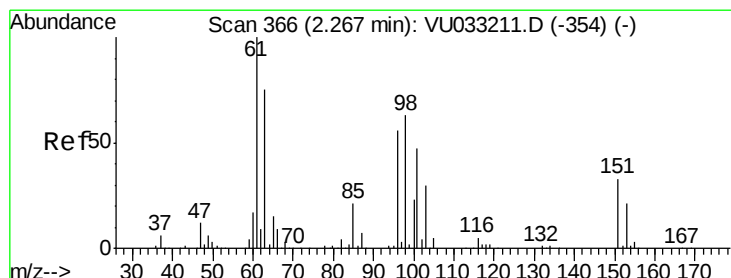
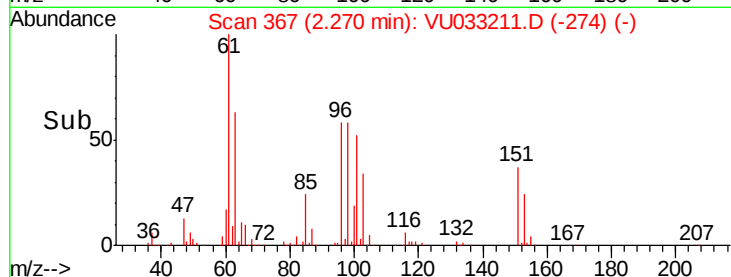
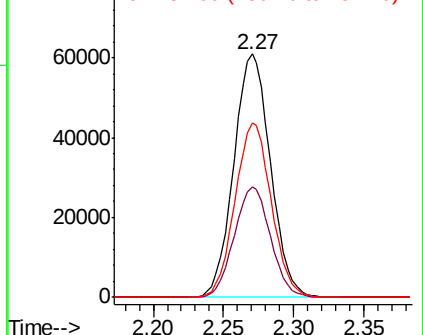
151 70.9 56.7 85.1



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: 51.601 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

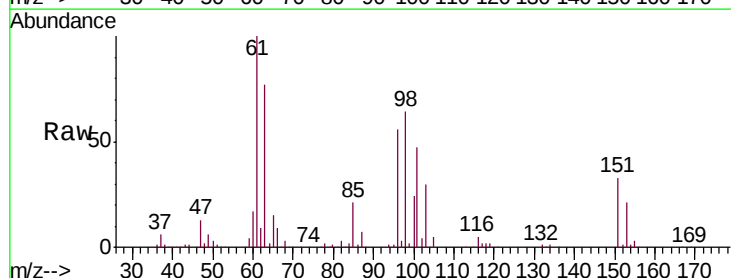
Tgt Ion: 96 Resp: 108130

Ion Ratio Lower Upper

96 100

61 180.1 126.1 234.1

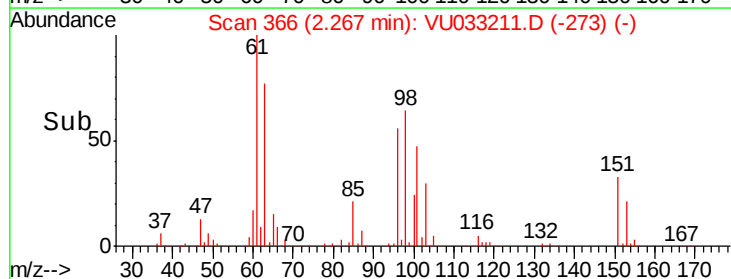
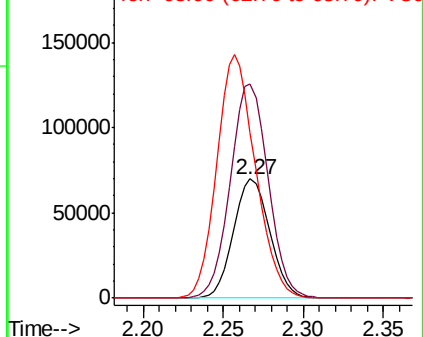
63 138.3 96.8 179.8

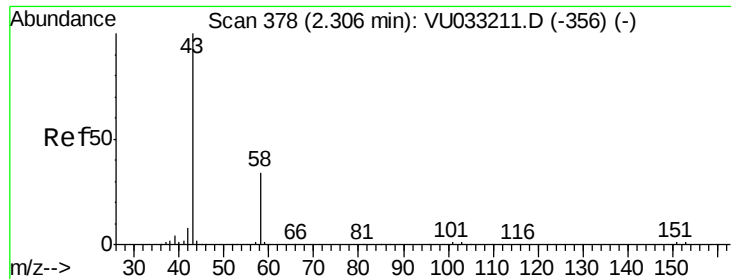


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 72.133 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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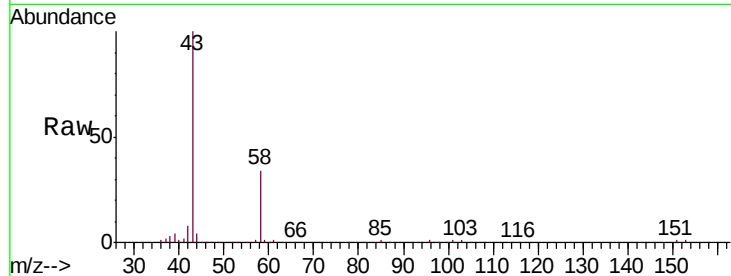
VSTD05034

Tgt Ion: 43 Resp: 175173

Ion Ratio Lower Upper

43 100

58 32.7 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033211.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU033211.D (-356) (-)

2.31

120000

100000

80000

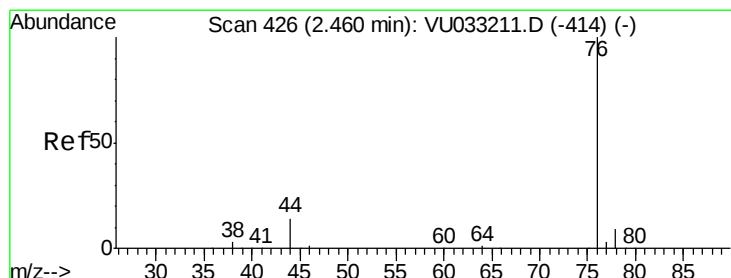
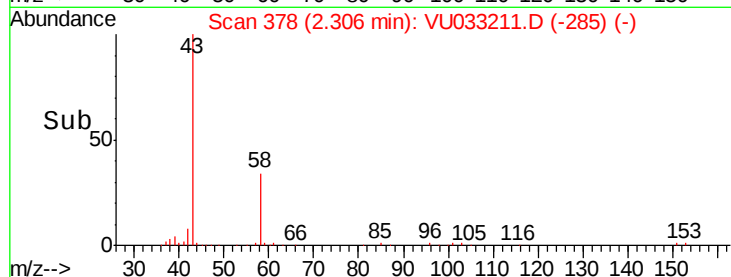
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 48.548 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033211.D

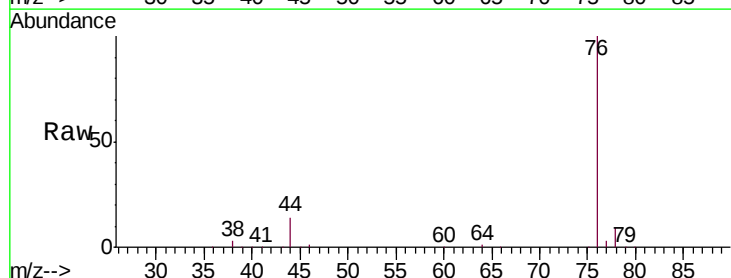
Acq: 12 Jul 2019 10:04

Tgt Ion: 76 Resp: 317265

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033211.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033211.D (-414) (-)

2.46

200000

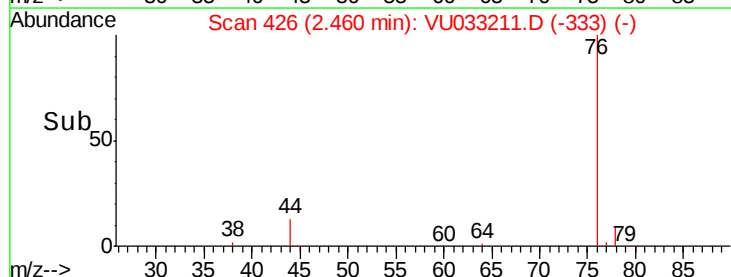
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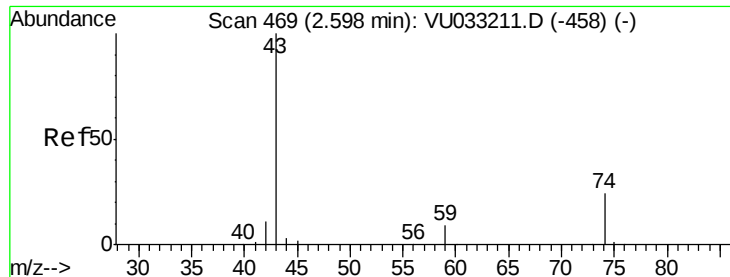
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50000

0

Time-->

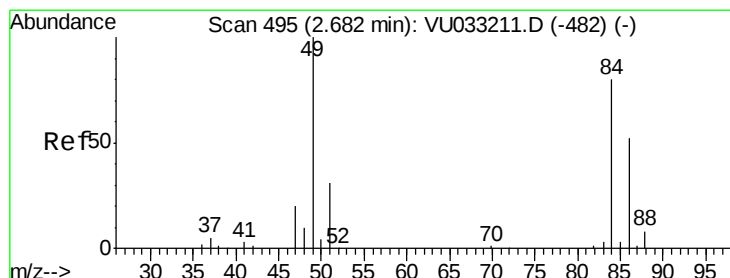
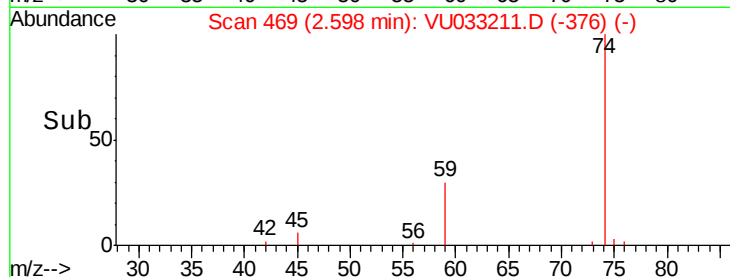
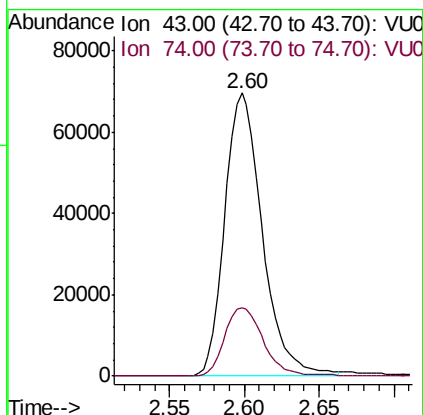
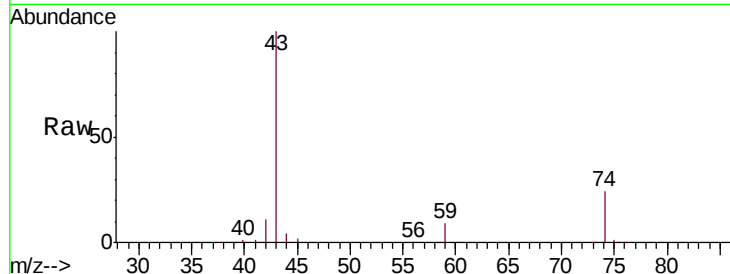




#15
Methyl Acetate
Concen: 42.682 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

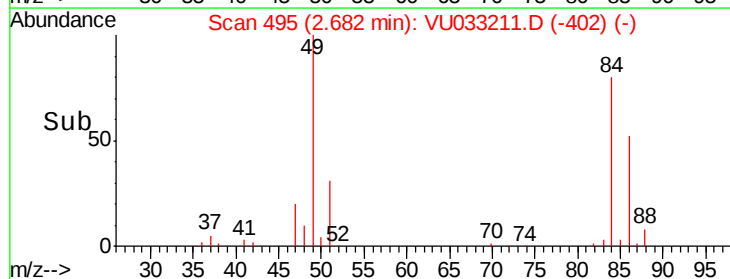
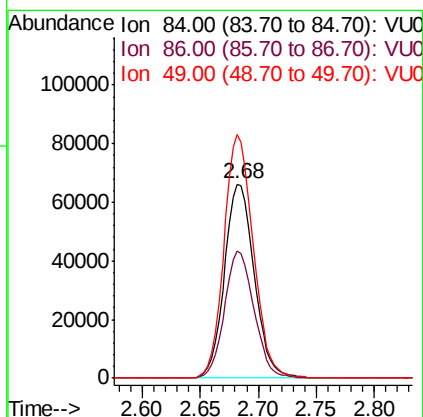
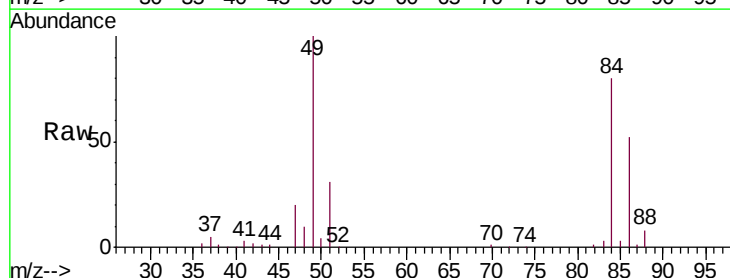
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

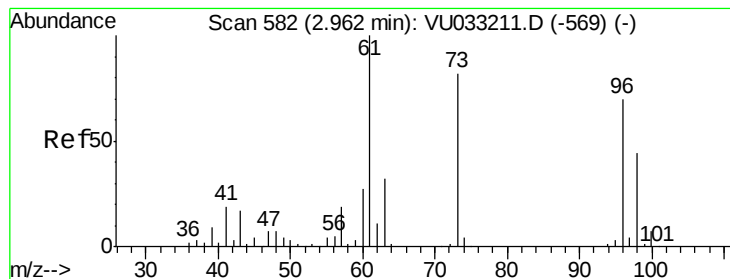
Tgt Ion: 43 Resp: 121119
Ion Ratio Lower Upper
43 100
74 24.9 19.9 29.9



#16
Methylene chloride
Concen: 48.782 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Tgt Ion: 84 Resp: 118085
Ion Ratio Lower Upper
84 100
86 65.3 45.7 84.9
49 125.3 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 48.089 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

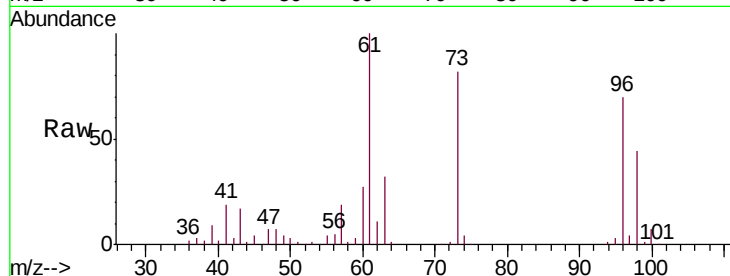
Tgt Ion: 96 Resp: 107344

Ion Ratio Lower Upper

96 100

61 143.2 100.2 186.2

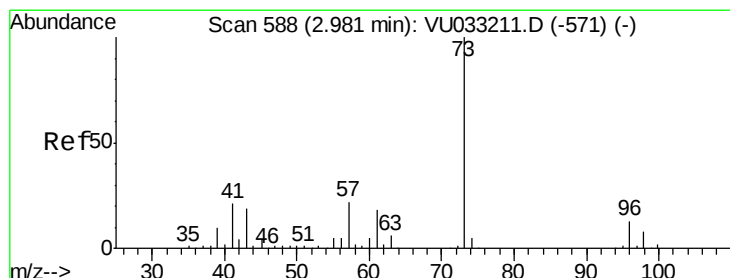
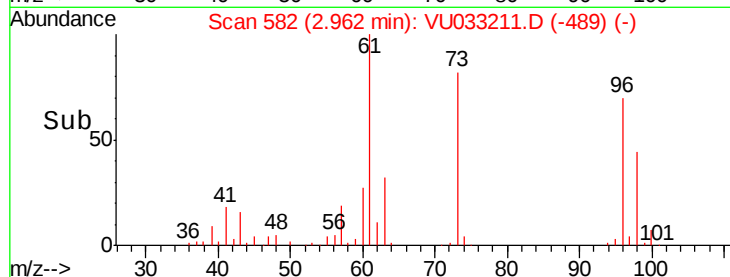
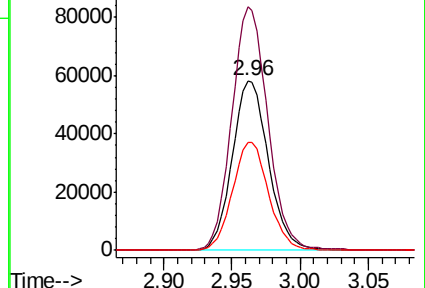
98 63.1 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033211.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033211.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033211.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 47.281 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

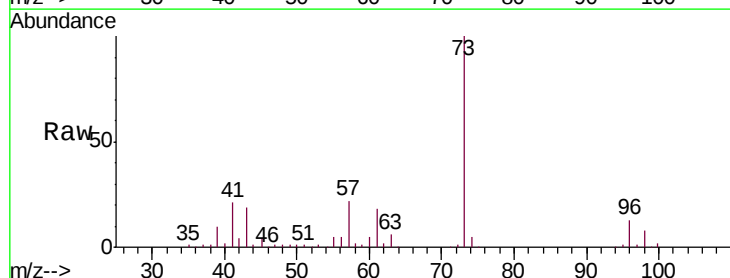
Tgt Ion: 73 Resp: 336048

Ion Ratio Lower Upper

73 100

43 19.6 15.7 23.5

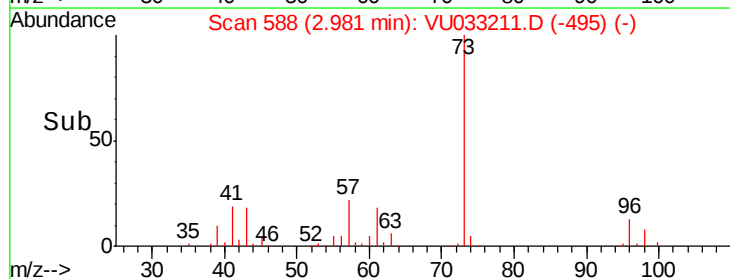
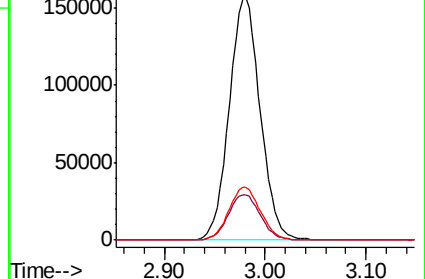
57 22.2 17.8 26.6

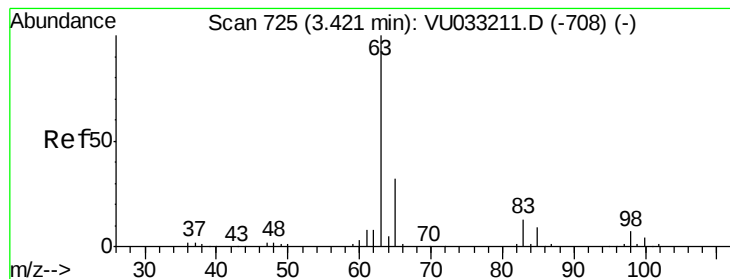


Abundance Ion 73.00 (72.70 to 73.70): VU033211.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033211.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033211.D (-571) (-)





#19

1,1-Dichloroethane

Concen: 48.588 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

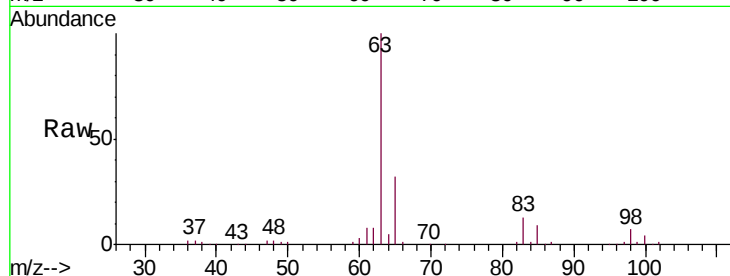
Tgt Ion: 63 Resp: 206111

Ion Ratio Lower Upper

63 100

65 31.9 22.3 41.5

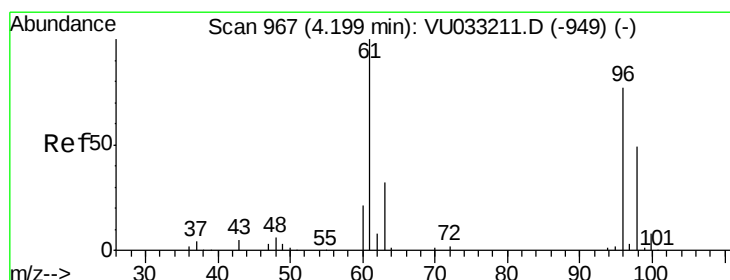
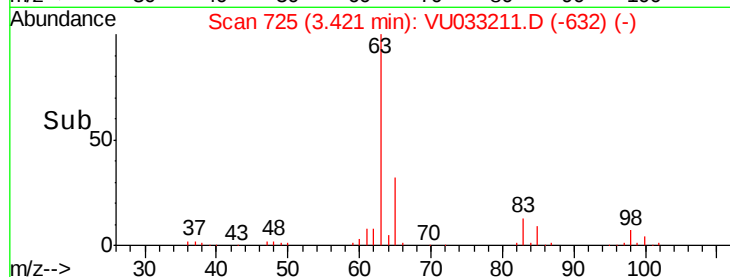
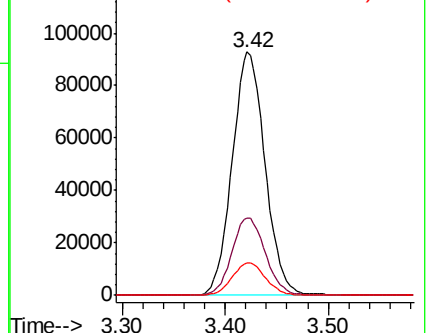
83 13.3 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VU033211.D (-708) (-)

Ion 65.00 (64.70 to 65.70): VU033211.D (-708) (-)

Ion 83.00 (82.70 to 83.70): VU033211.D (-708) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.781 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

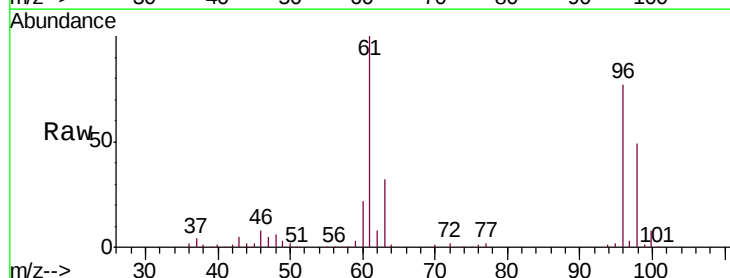
Tgt Ion: 96 Resp: 121782

Ion Ratio Lower Upper

96 100

61 130.1 91.1 169.1

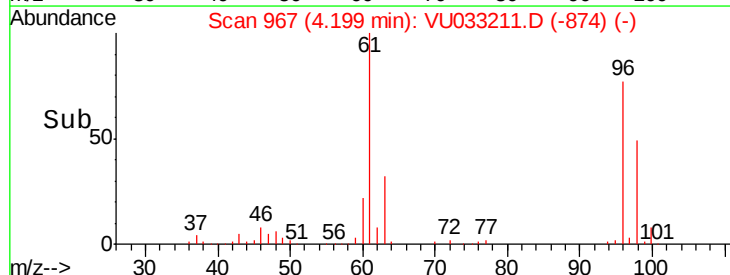
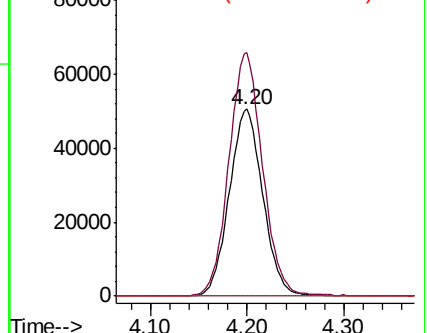
68 0.0 0.0 0.0

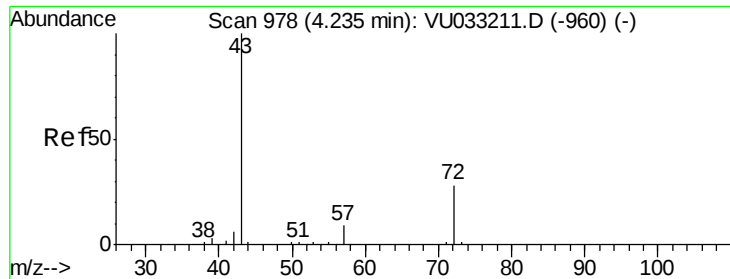


Abundance Ion 96.00 (95.70 to 96.70): VU033211.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU033211.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU033211.D (-949) (-)





#22

2-Butanone

Concen: 80.702 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

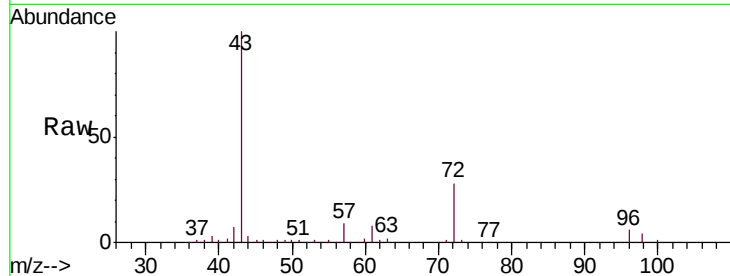
VSTD05034

Tgt Ion: 43 Resp: 205888

Ion Ratio Lower Upper

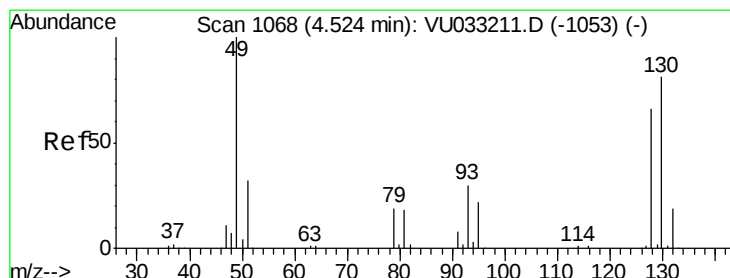
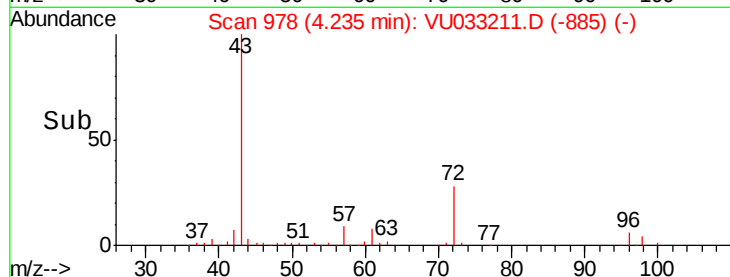
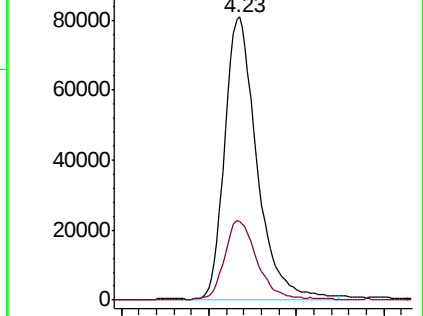
43 100

72 28.8 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033211.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033211.D (-960) (-)



#23

Bromochloromethane

Concen: 49.185 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Tgt Ion: 128 Resp: 62249

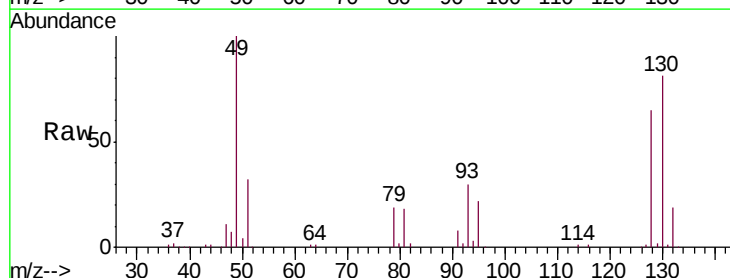
Ion Ratio Lower Upper

128 100

49 153.2 107.2 199.2

130 124.3 87.0 161.6

51 49.5 39.6 59.4

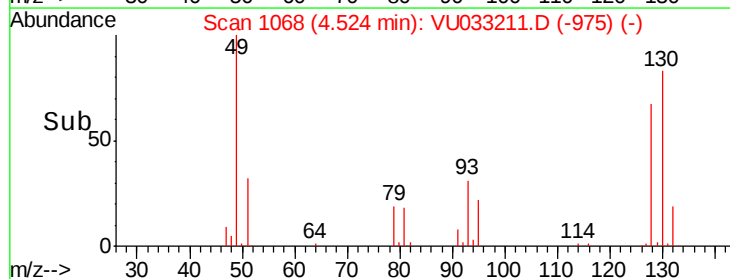
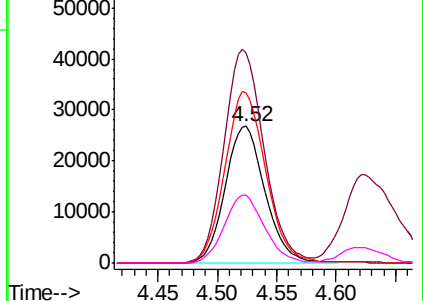


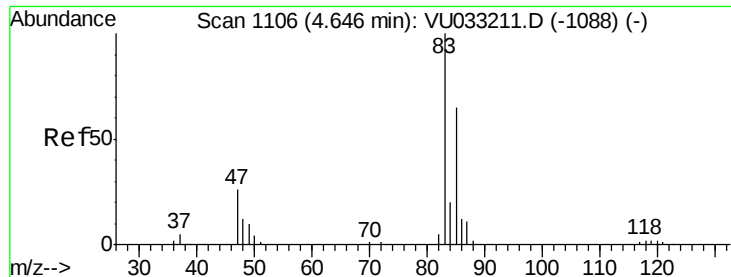
Abundance Ion 128.00 (127.70 to 128.70): VU033211.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033211.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033211.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033211.D (-1053) (-)

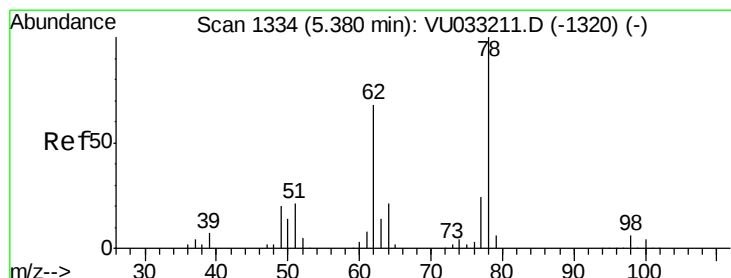
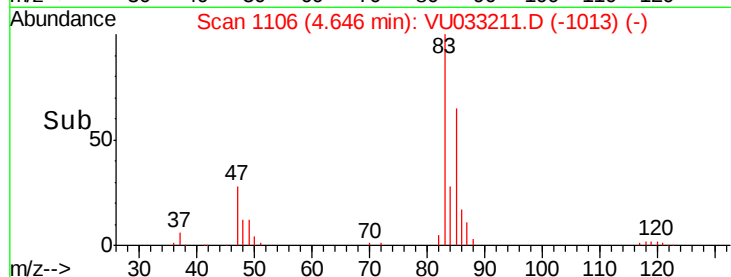
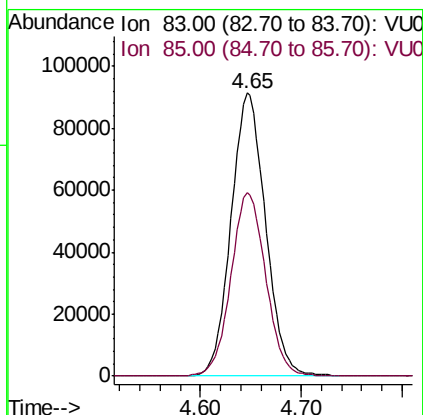
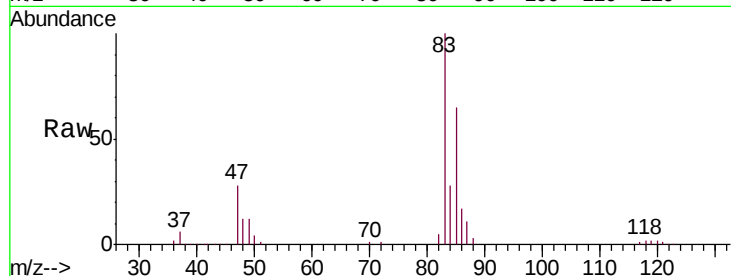




#25
Chloroform
Concen: 49.260 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

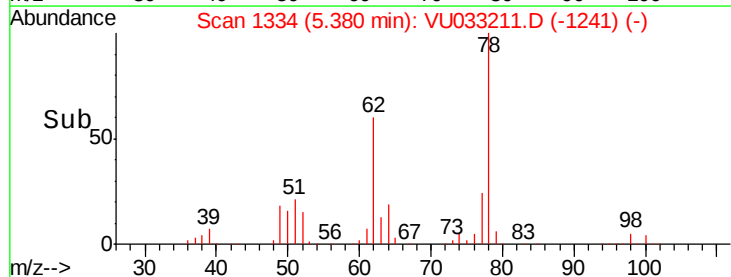
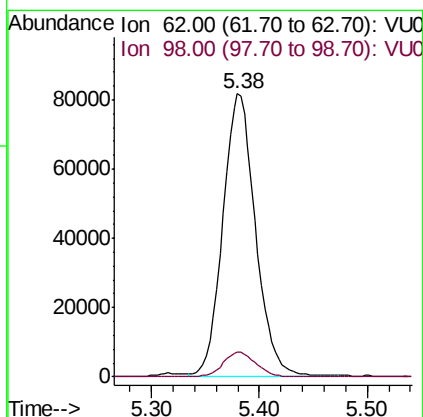
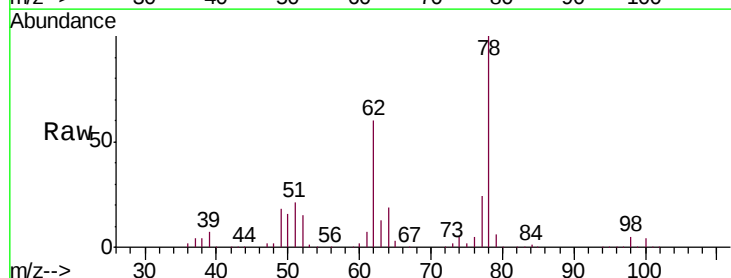
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

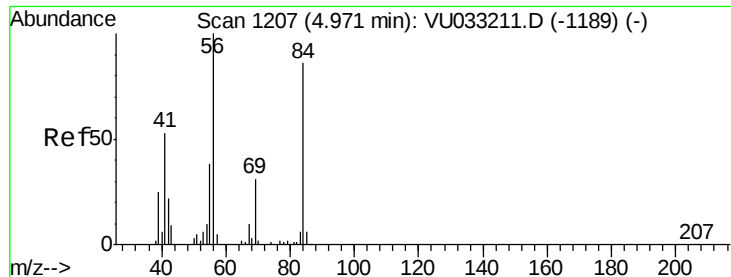
Tgt Ion: 83 Resp: 216745
Ion Ratio Lower Upper
83 100
85 64.9 45.4 84.4



#27
1,2-Dichloroethane
Concen: 48.203 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Tgt Ion: 62 Resp: 172527
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

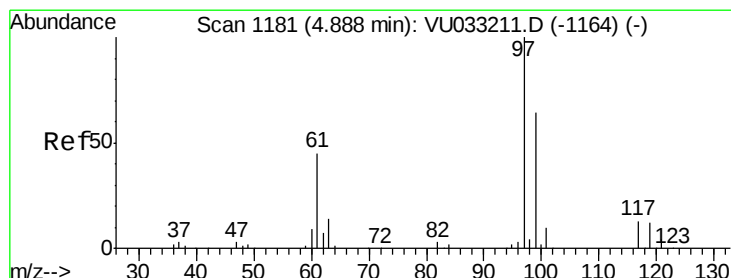
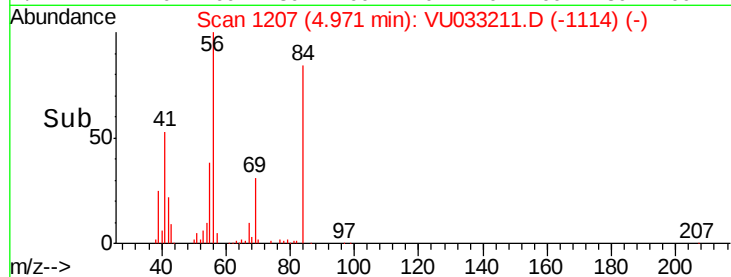
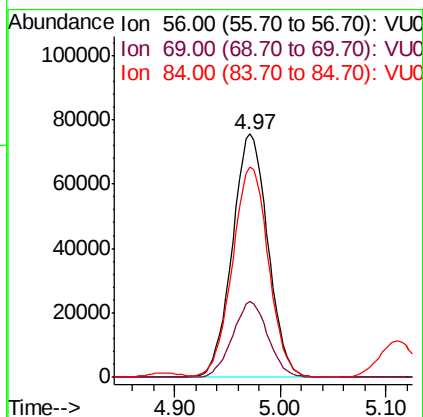
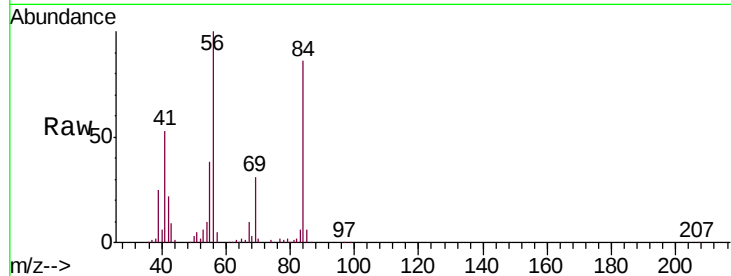




#29
Cyclohexane
Concen: 45.240 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

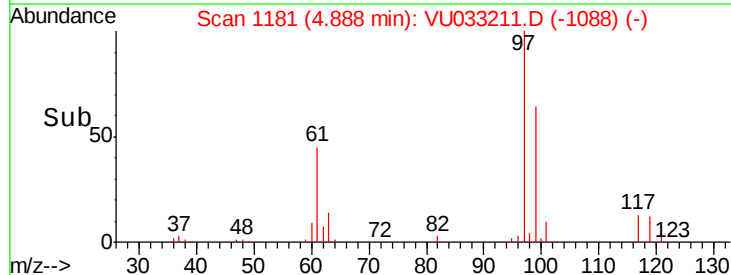
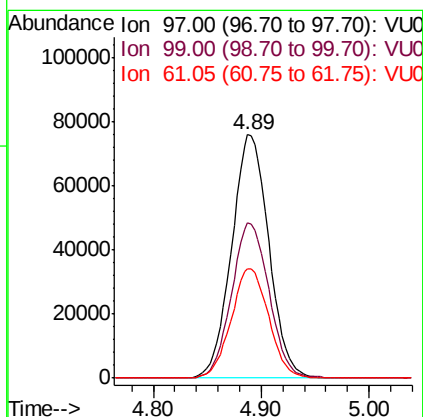
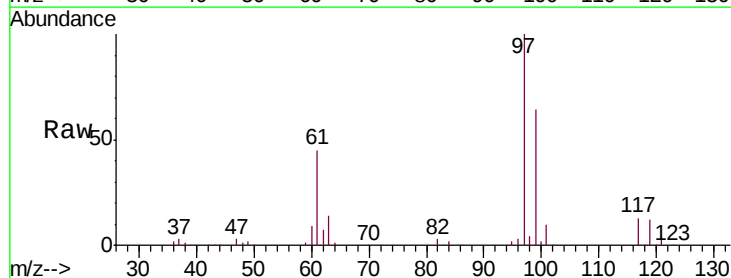
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

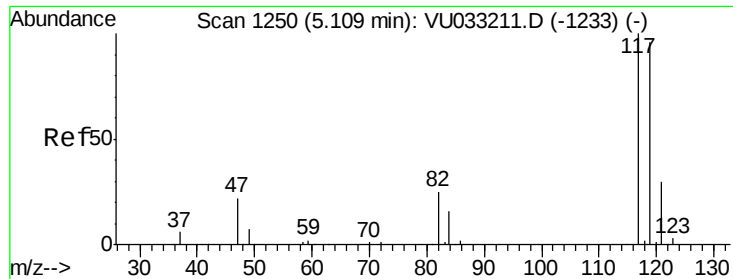
Tgt Ion: 56 Resp: 177259
Ion Ratio Lower Upper
56 100
69 30.9 24.7 37.1
84 87.7 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 44.742 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Tgt Ion: 97 Resp: 182365
Ion Ratio Lower Upper
97 100
99 64.4 51.5 77.3
61 45.5 36.4 54.6





#31

Carbon tetrachloride

Concen: 43.760 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

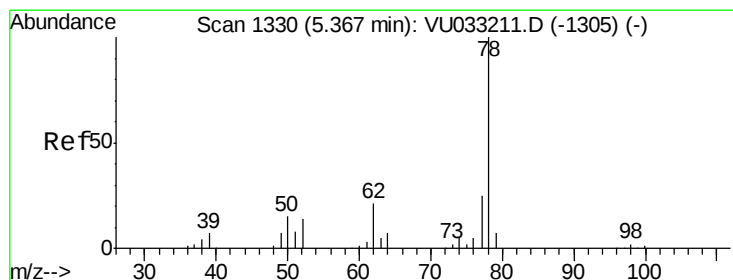
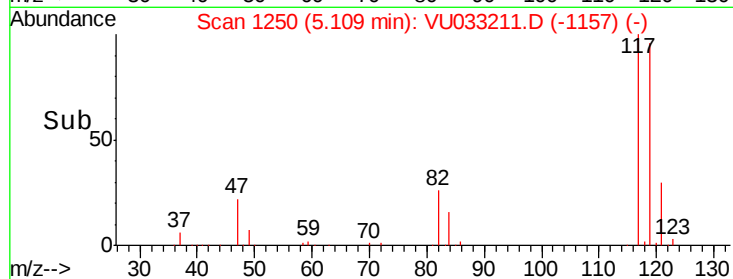
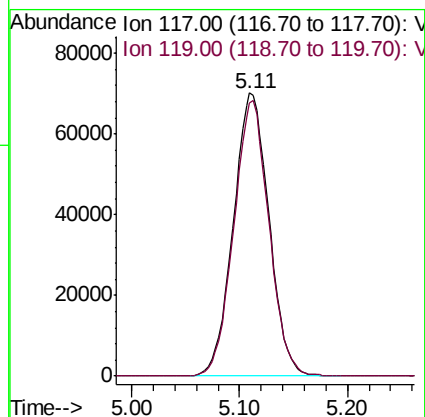
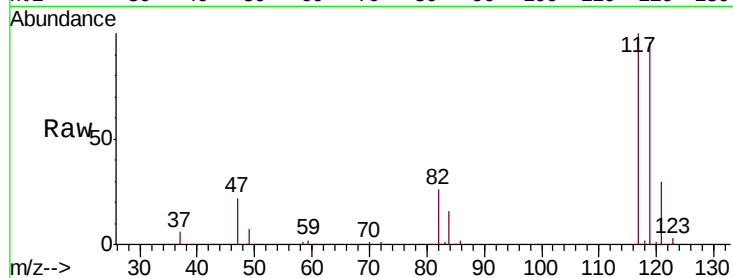
VSTD05034

Tgt Ion:117 Resp: 161411

Ion Ratio Lower Upper

117 100

119 96.1 76.9 115.3



#33

Benzene

Concen: 47.895 ug/L

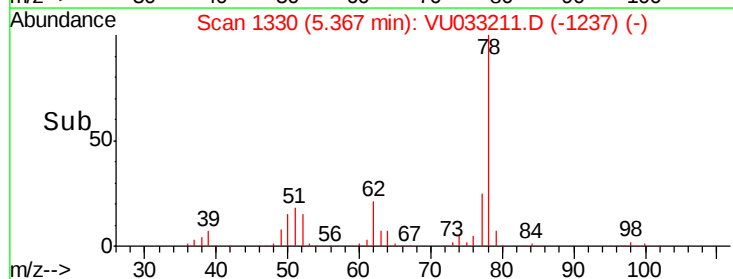
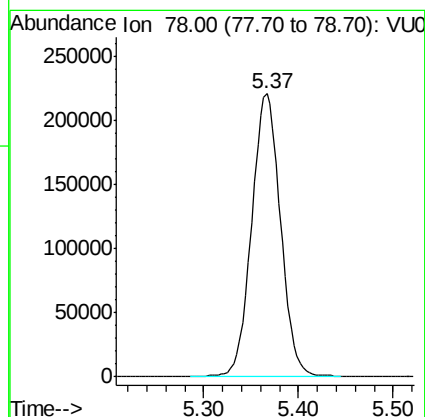
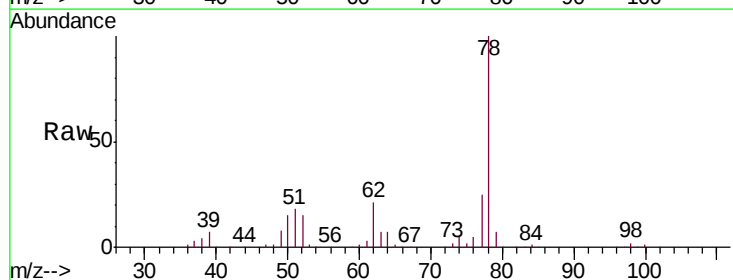
RT: 5.37 min Scan# 1330

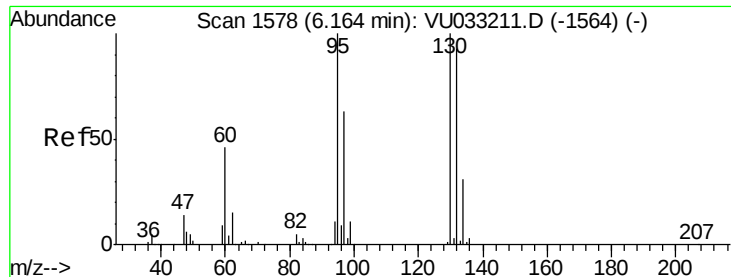
Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Tgt Ion: 78 Resp: 468791

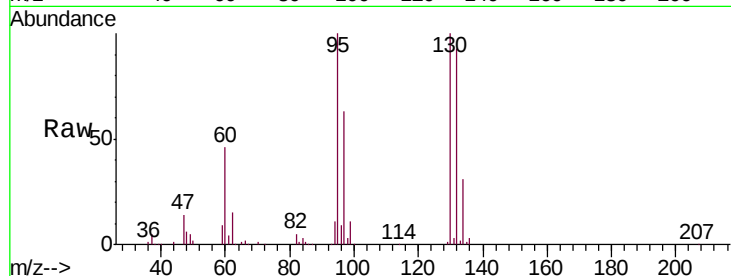




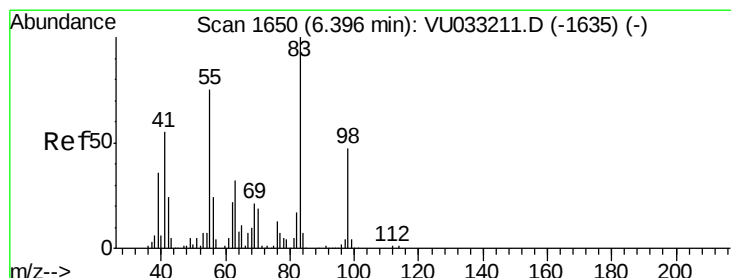
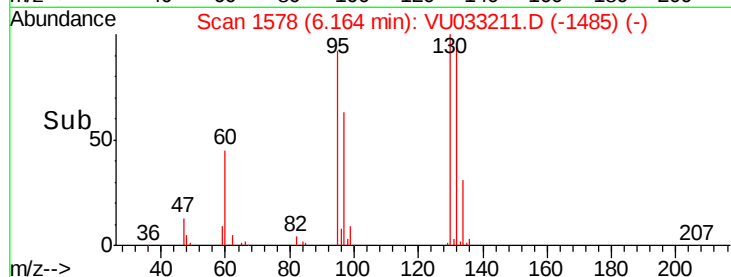
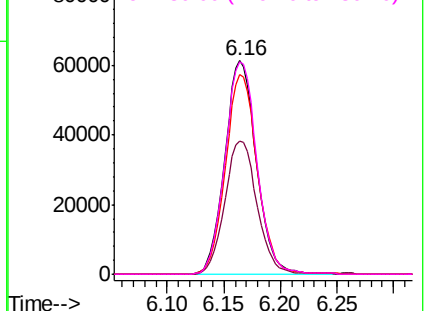
#34
 Trichloroethene
 Concen: 45.971 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion:	95	Resp:	119406
Ion	Ratio	Lower	Upper
95	100		
97	62.6	43.8	81.4
132	93.5	65.5	121.6
130	99.6	69.7	129.5

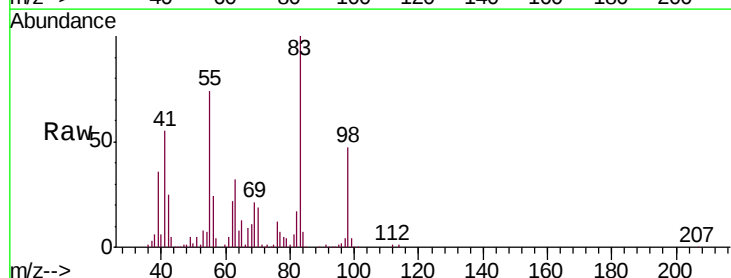


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

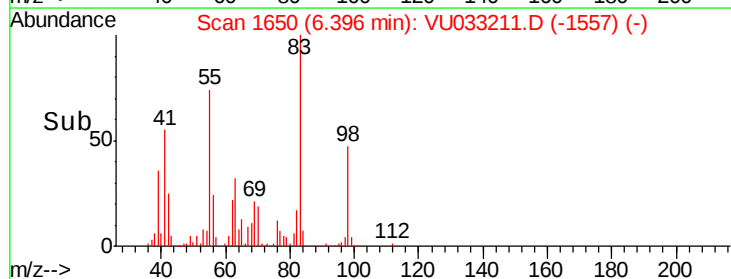
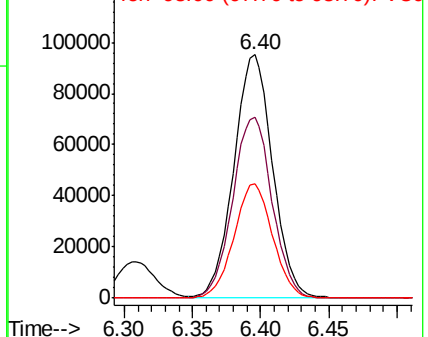


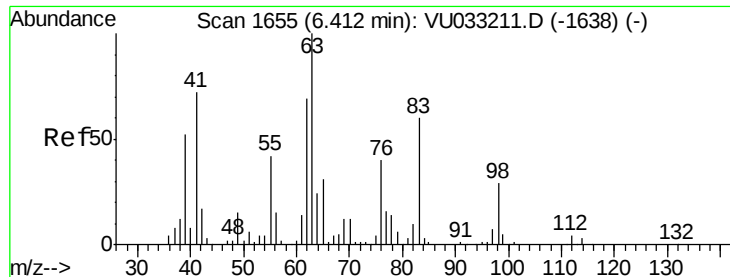
#35
 Methylcyclohexane
 Concen: 46.931 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Tgt Ion:	83	Resp:	188416
Ion	Ratio	Lower	Upper
83	100		
55	75.6	60.5	90.7
98	46.7	37.4	56.0



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

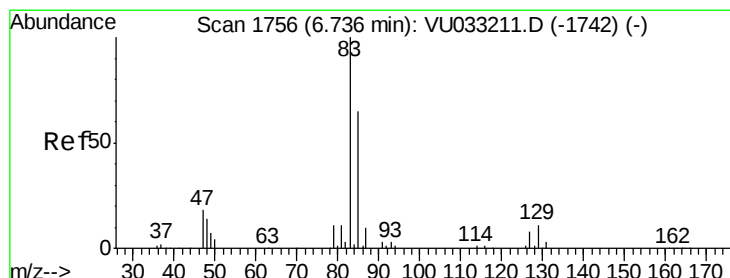
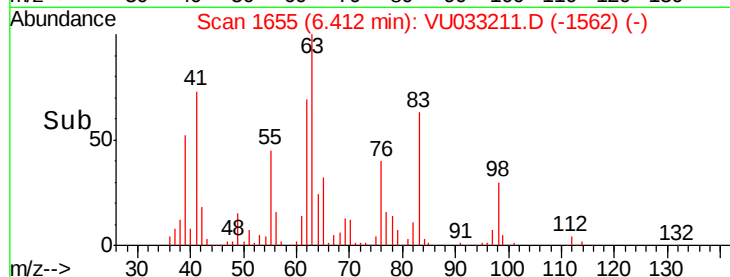
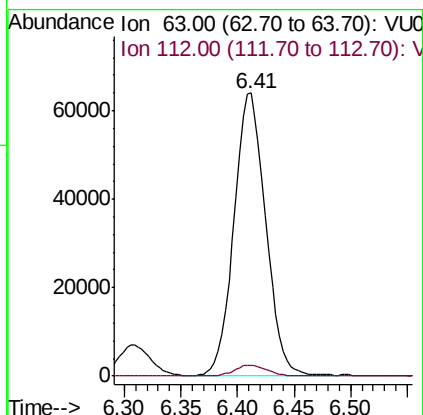
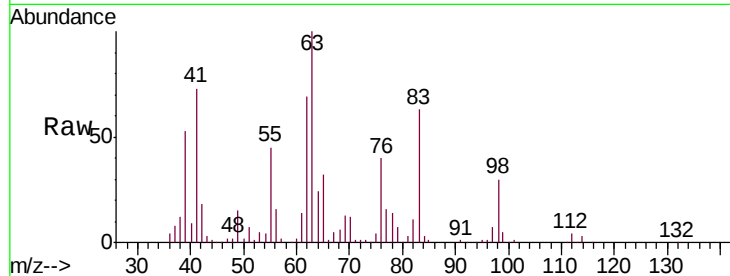




#37
 1,2-Dichloropropane
 Concen: 47.020 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

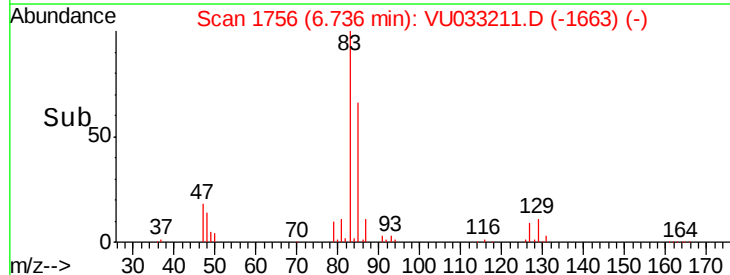
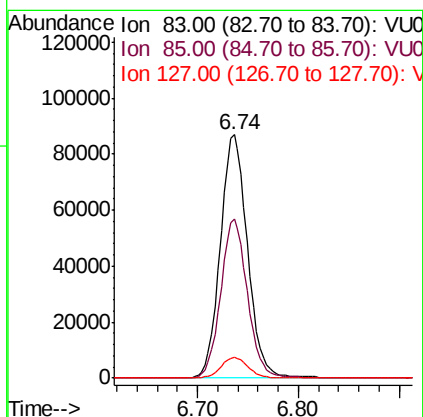
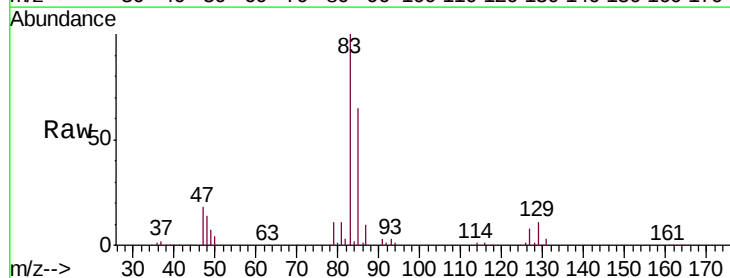
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

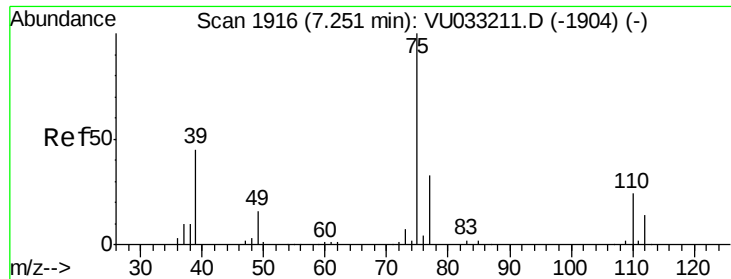
Tgt Ion: 63 Resp: 125726
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 45.808 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Tgt Ion: 83 Resp: 163757
 Ion Ratio Lower Upper
 83 100
 85 65.4 45.8 85.0
 127 8.5 6.8 10.2

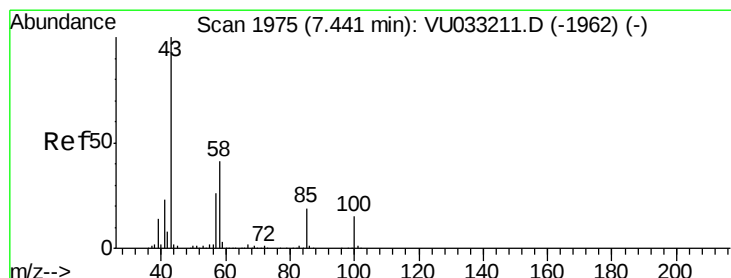
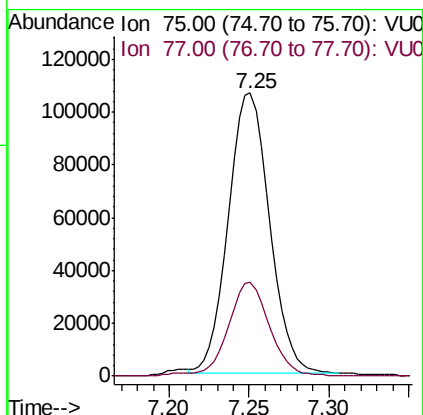
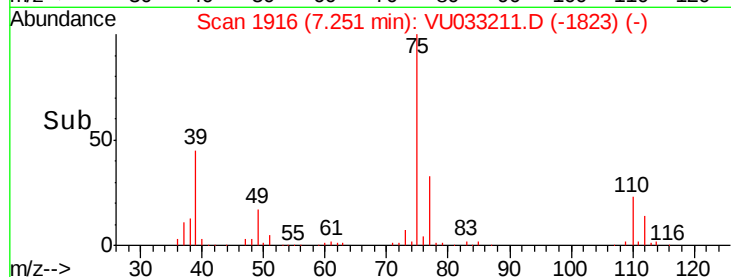
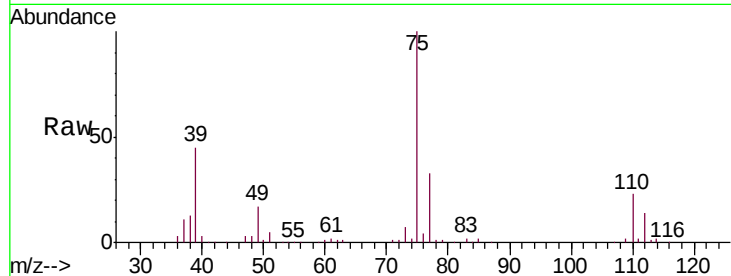




#39
 cis-1,3-Dichloropropene
 Concen: 45.198 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

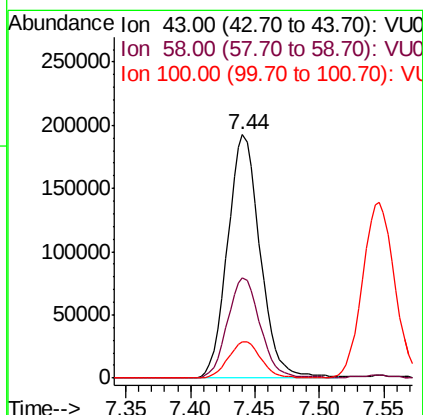
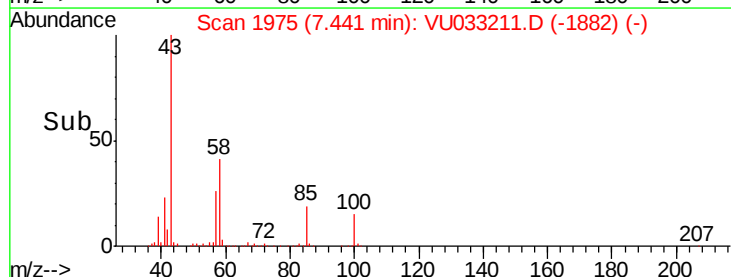
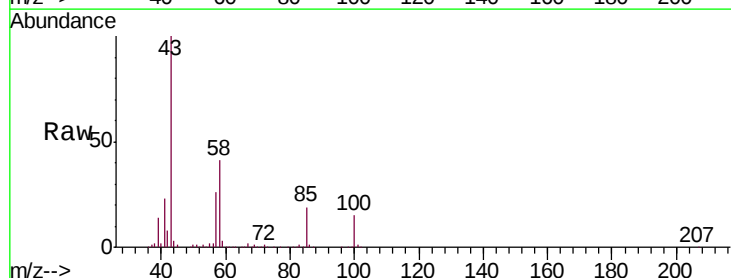
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

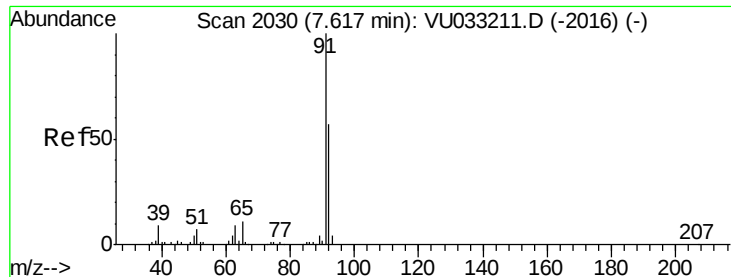
Tgt Ion: 75 Resp: 186529
 Ion Ratio Lower Upper
 75 100
 77 33.0 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 81.353 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Tgt Ion: 43 Resp: 337999
 Ion Ratio Lower Upper
 43 100
 58 41.6 33.3 49.9
 100 15.1 12.1 18.1





#42

Toluene

Concen: 48.338 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

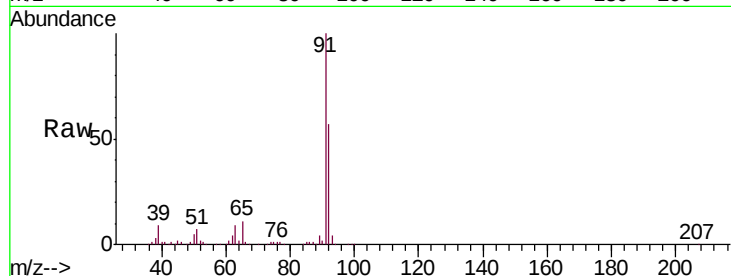
VSTD05034

Tgt Ion: 91 Resp: 511982

Ion Ratio Lower Upper

91 100

92 56.9 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU033211.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033211.D (-2016) (-)

7.62

300000

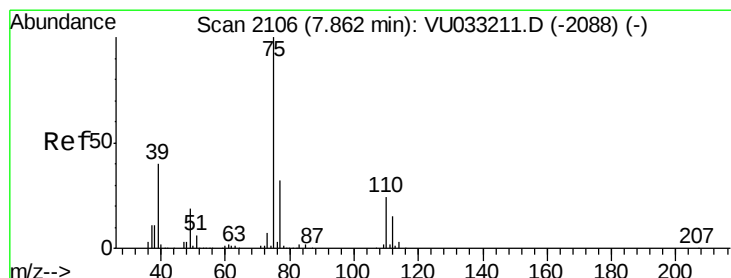
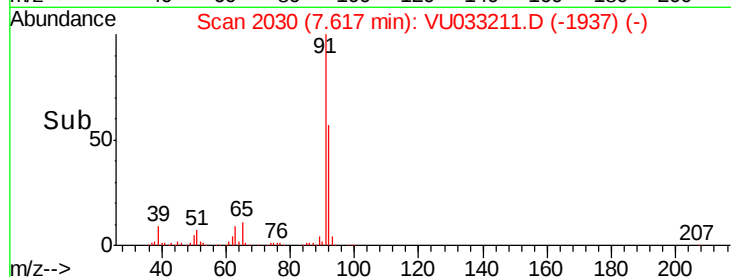
200000

100000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.163 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033211.D

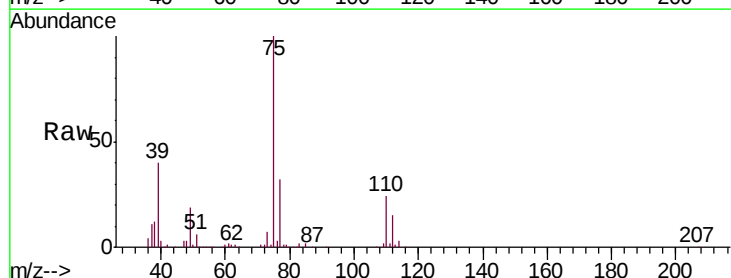
Acq: 12 Jul 2019 10:04

Tgt Ion: 75 Resp: 179429

Ion Ratio Lower Upper

75 100

77 32.0 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033211.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033211.D (-2088) (-)

7.86

120000

100000

80000

60000

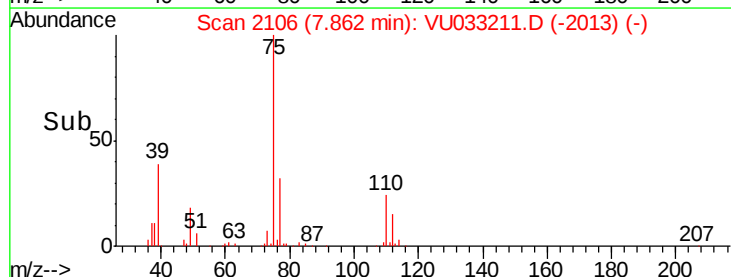
40000

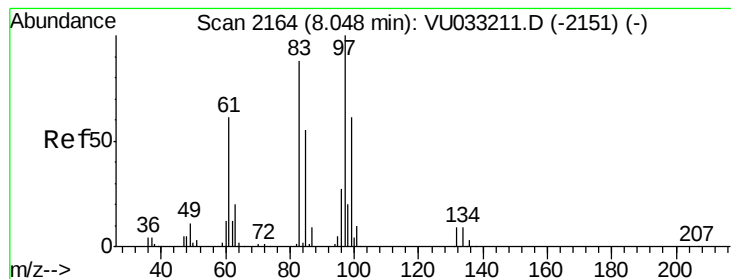
20000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 47.745 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 97 Resp: 119066

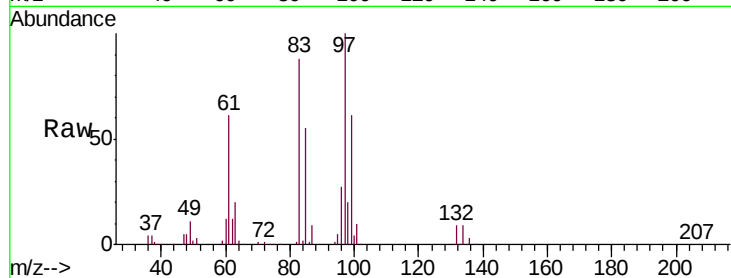
Ion Ratio Lower Upper

97 100

99 61.4 43.0 79.8

83 87.9 61.5 114.3

85 55.4 38.8 72.0

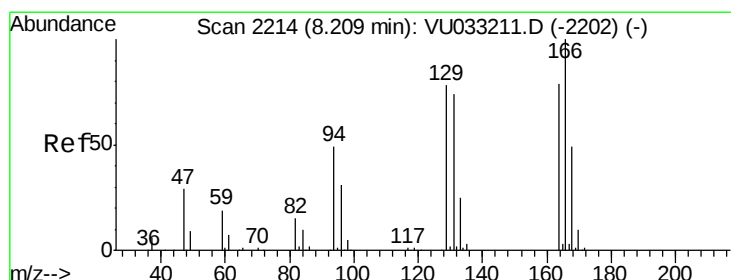
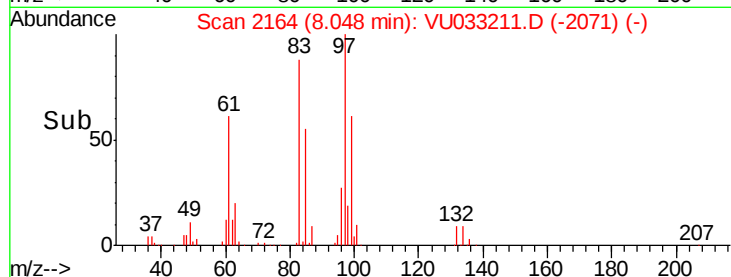
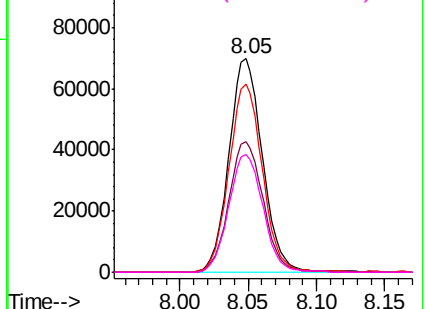


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 44.221 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Tgt Ion:164 Resp: 93232

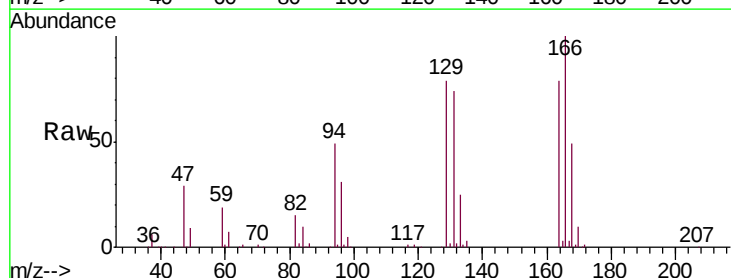
Ion Ratio Lower Upper

164 100

129 99.4 69.6 129.2

131 93.9 65.7 122.1

166 126.5 88.5 164.4

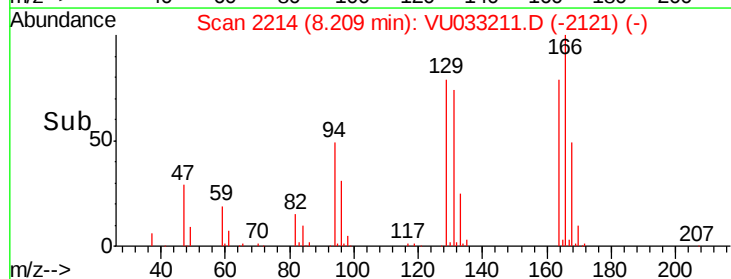
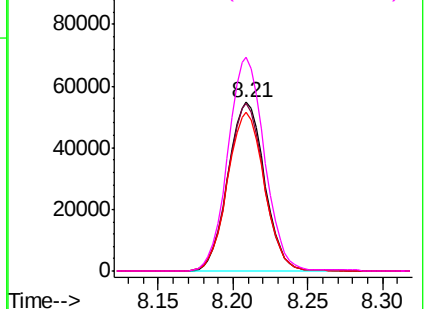


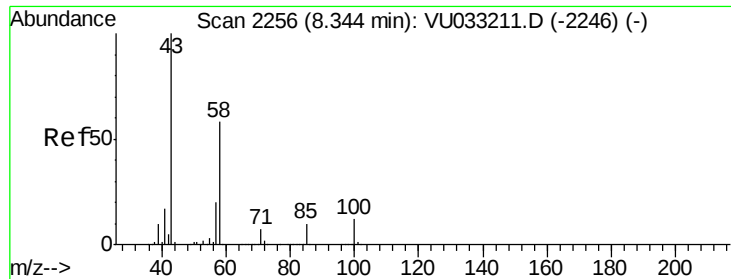
Abundance Ion 164.00 (163.70 to 164.70): V

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

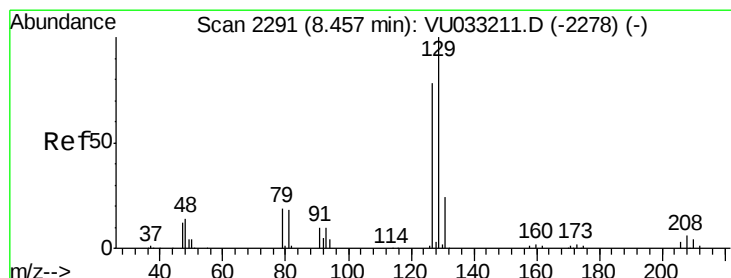
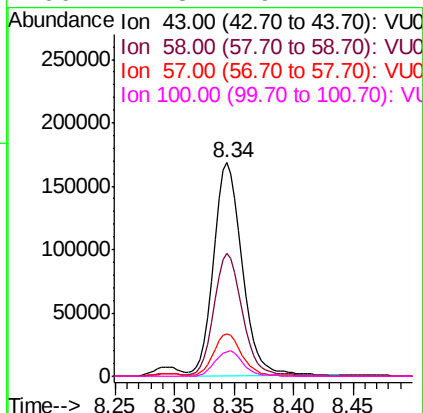
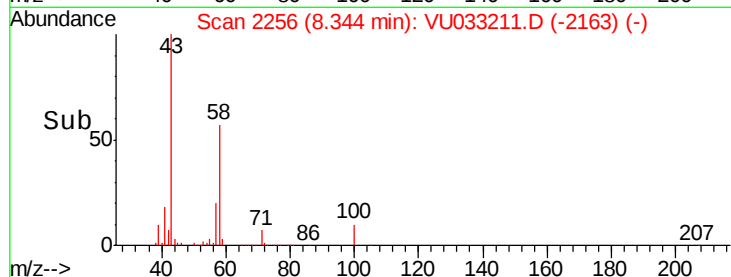
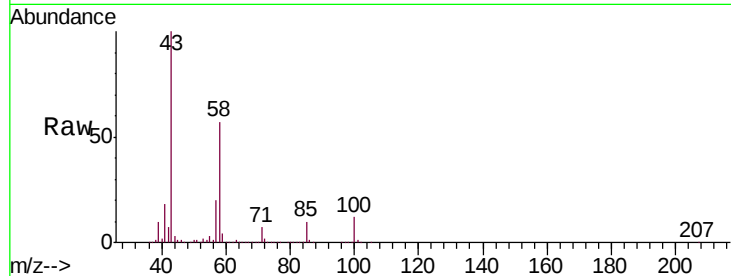




#48
2-Hexanone
Concen: 77.289 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

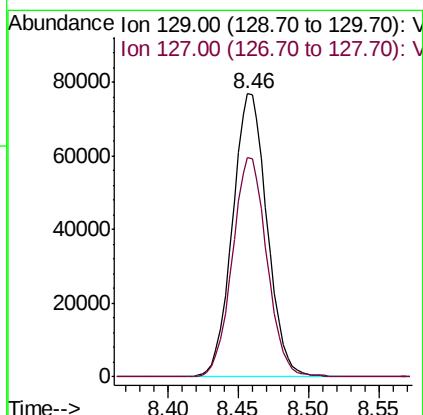
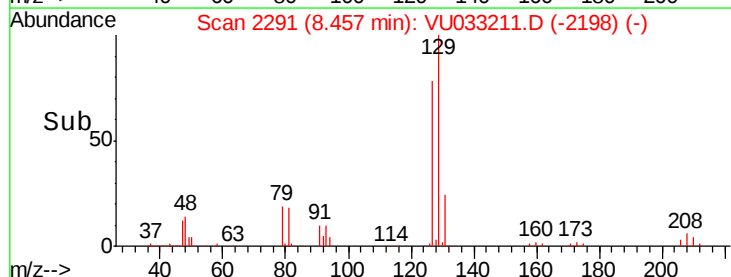
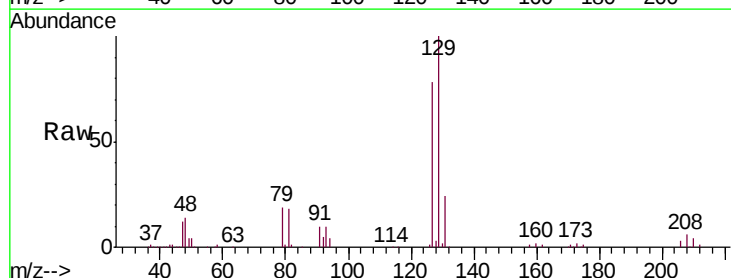
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

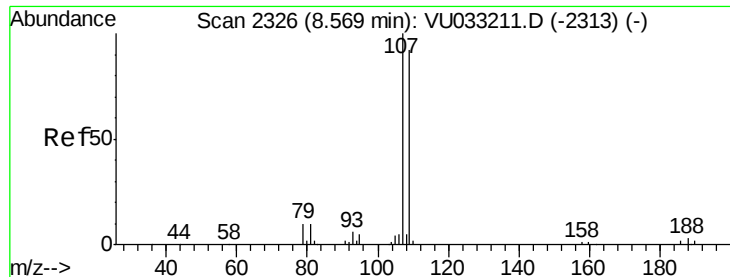
Tgt Ion: 43 Resp: 279445
Ion Ratio Lower Upper
43 100
58 57.6 46.1 69.1
57 19.8 15.8 23.8
100 11.8 9.4 14.2



#49
Dibromochloromethane
Concen: 44.653 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Tgt Ion: 129 Resp: 132281
Ion Ratio Lower Upper
129 100
127 77.6 54.3 100.9

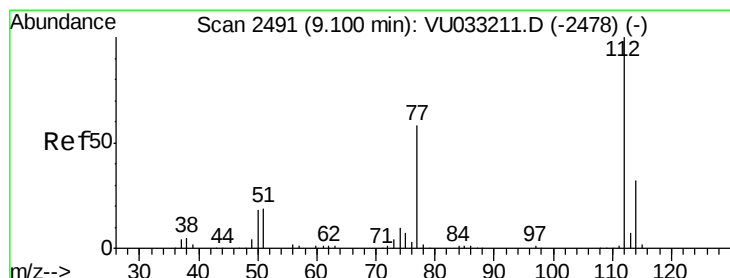
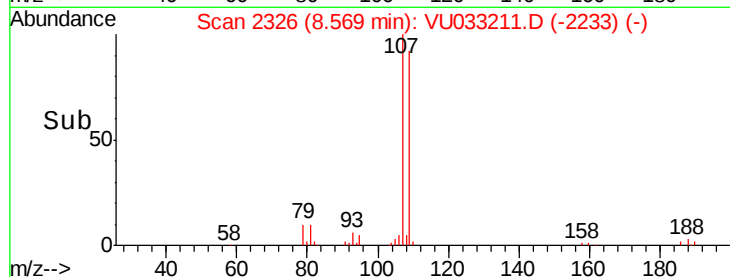
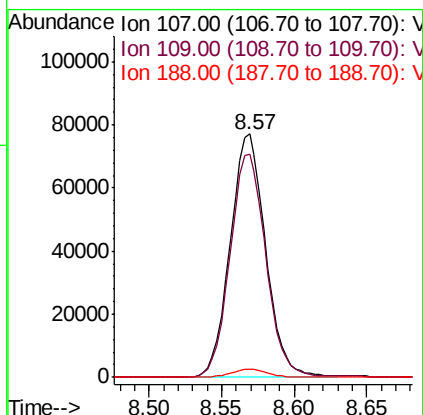
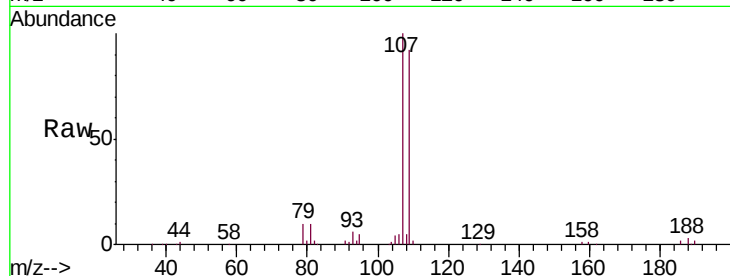




#50
1,2-Dibromoethane
Concen: 47.306 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

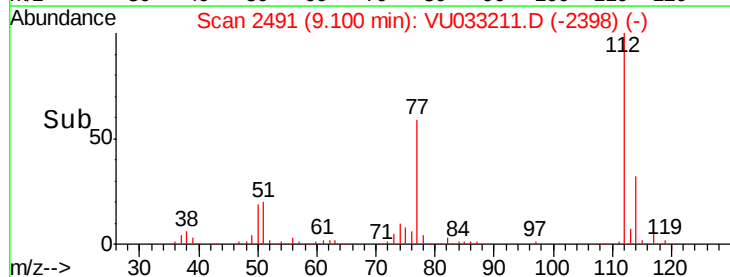
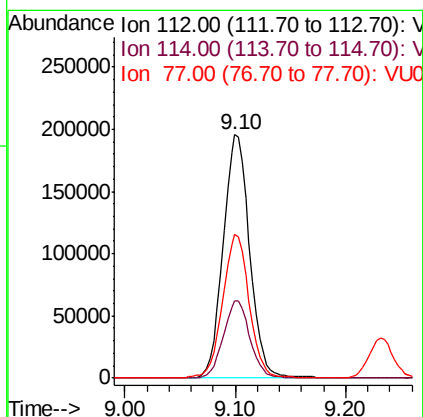
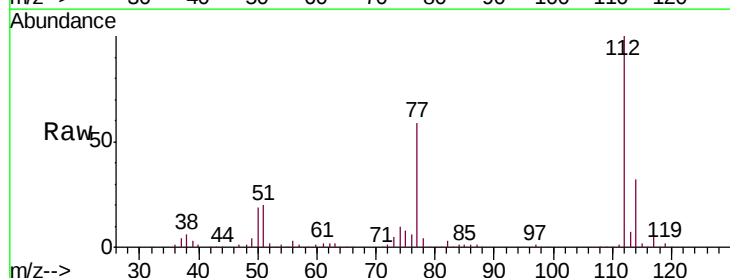
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

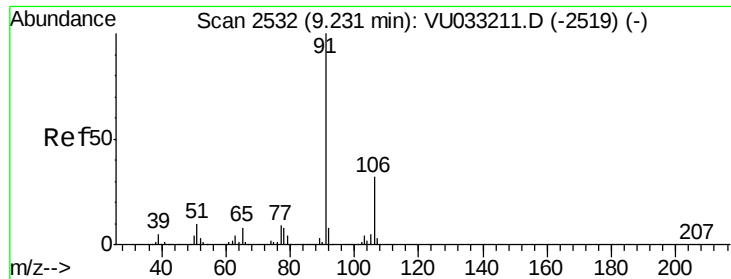
Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.7	64.2	119.2
188	3.3	2.6	4.0



#51
Chlorobenzene
Concen: 46.858 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.3	41.3
77	59.0	47.2	70.8





#52

Ethylbenzene

Concen: 47.384 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

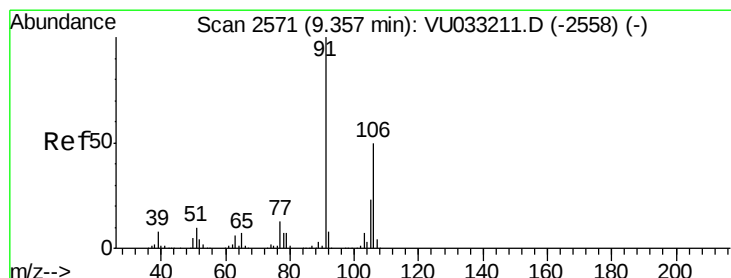
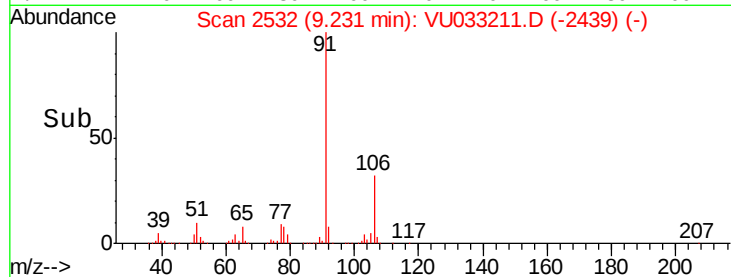
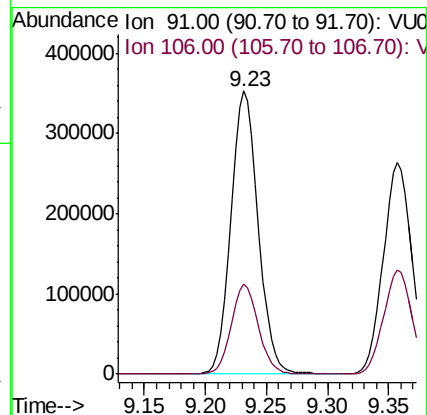
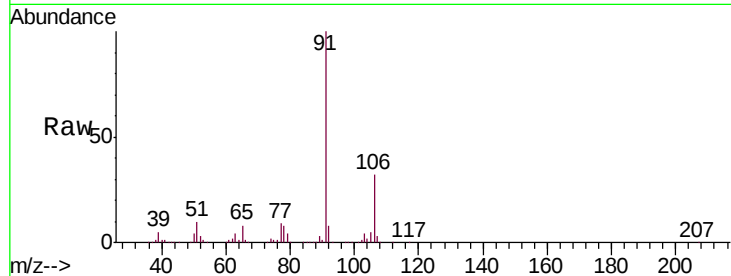
VSTD05034

Tgt Ion: 91 Resp: 553793

Ion Ratio Lower Upper

91 100

106 31.7 22.2 41.2



#53

m,p-Xylene

Concen: 47.730 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033211.D

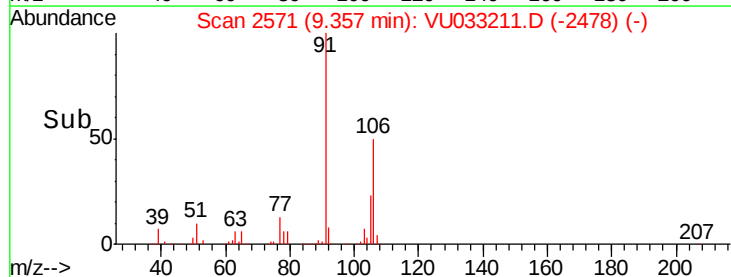
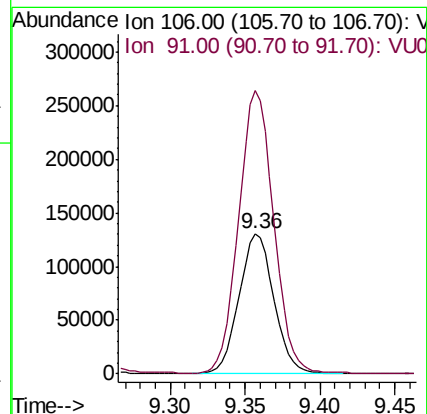
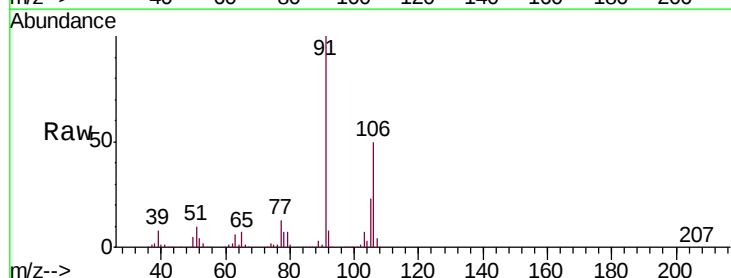
Acq: 12 Jul 2019 10:04

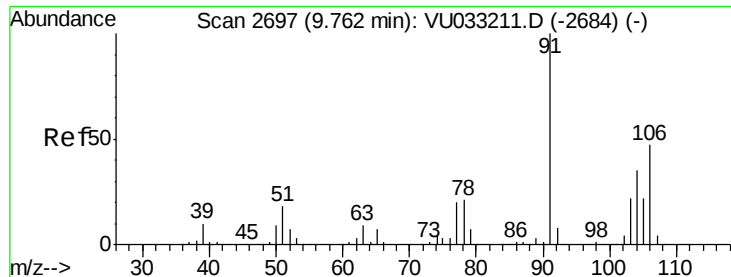
Tgt Ion: 106 Resp: 210850

Ion Ratio Lower Upper

106 100

91 201.8 141.3 262.3

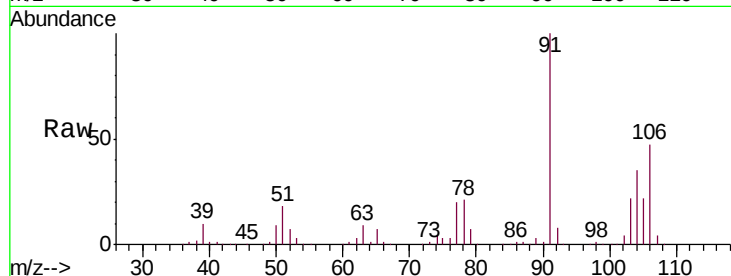




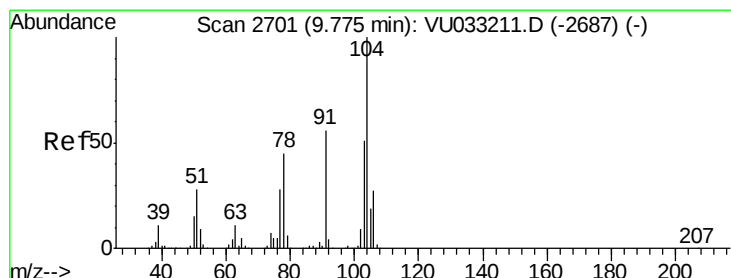
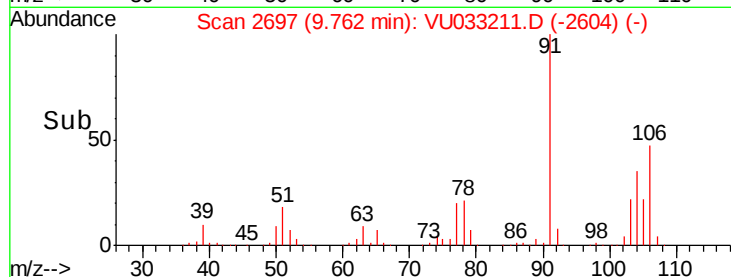
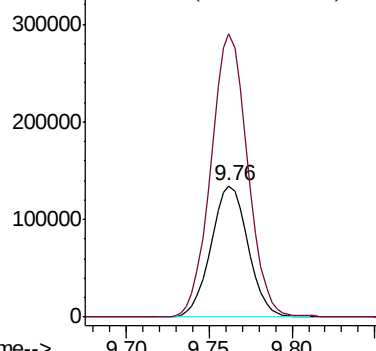
#54
o-xylene
Concen: 48.512 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Tgt Ion:106 Resp: 209729
Ion Ratio Lower Upper
106 100
91 215.0 150.5 279.5

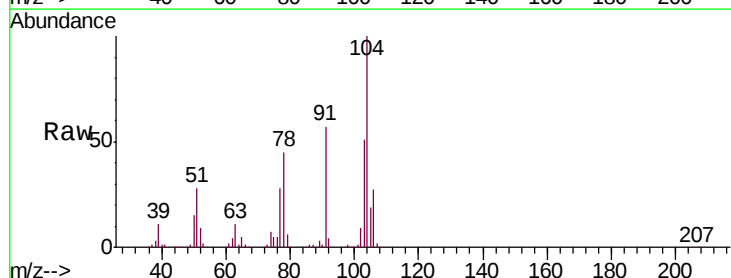


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

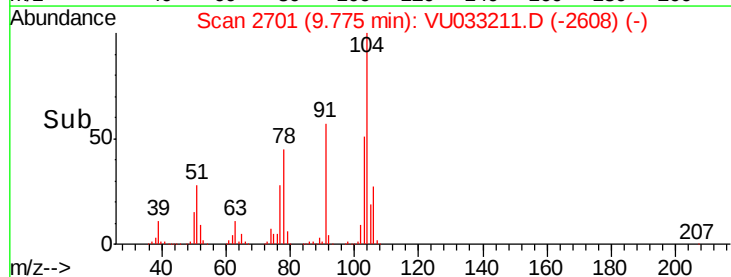
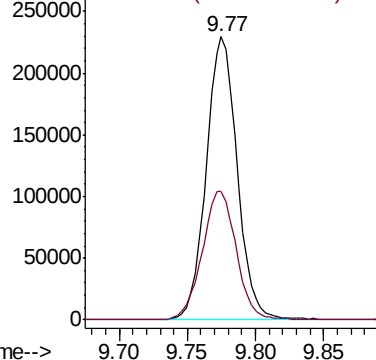


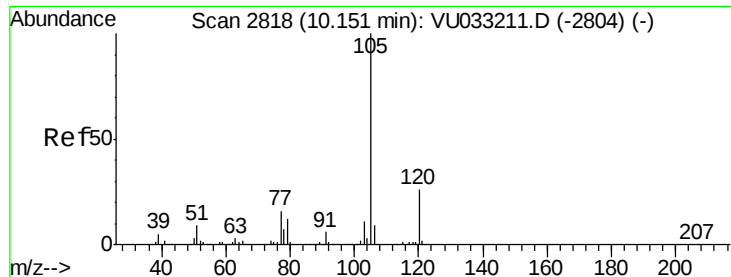
#55
Styrene
Concen: 48.402 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU033211.D
Acq: 12 Jul 2019 10:04

Tgt Ion:104 Resp: 361871
Ion Ratio Lower Upper
104 100
78 45.4 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.630 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

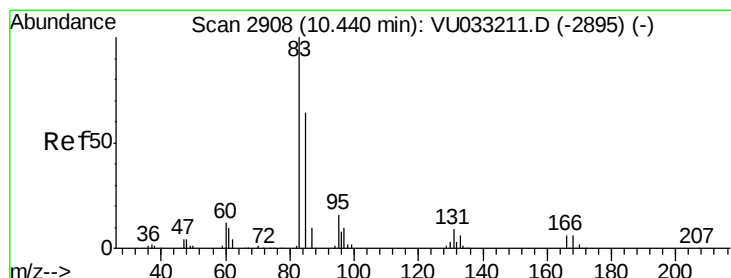
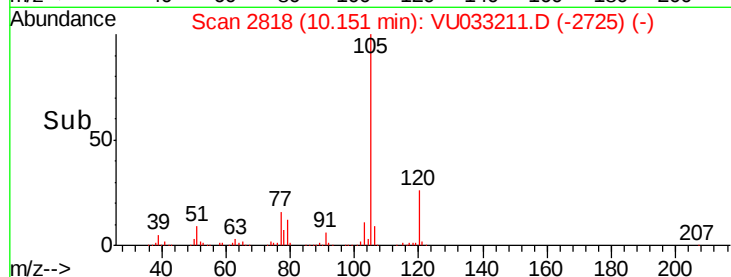
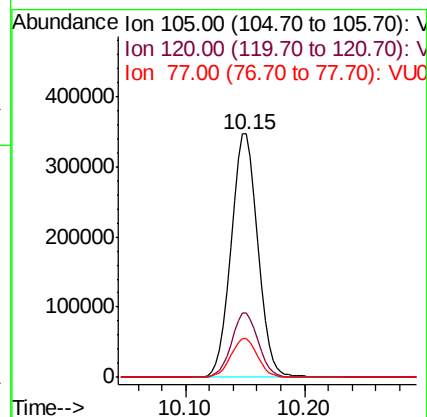
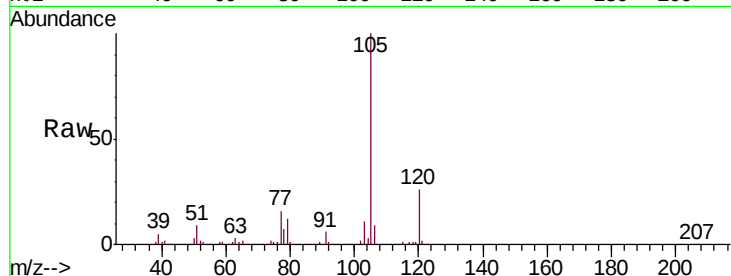
Tgt Ion: 105 Resp: 539393

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

77 16.1 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 46.377 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

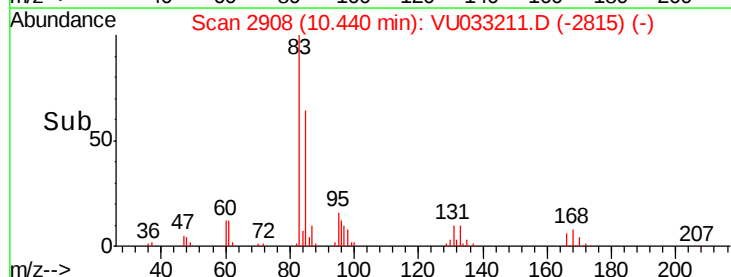
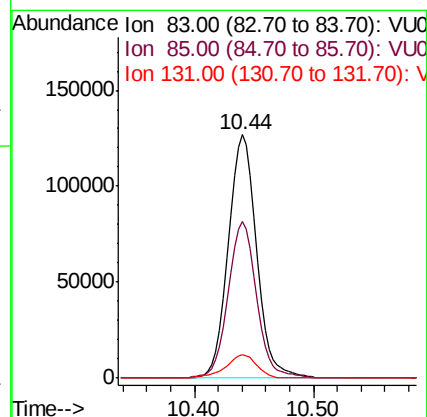
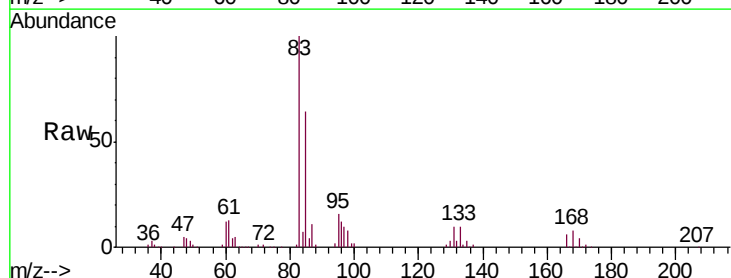
Tgt Ion: 83 Resp: 209659

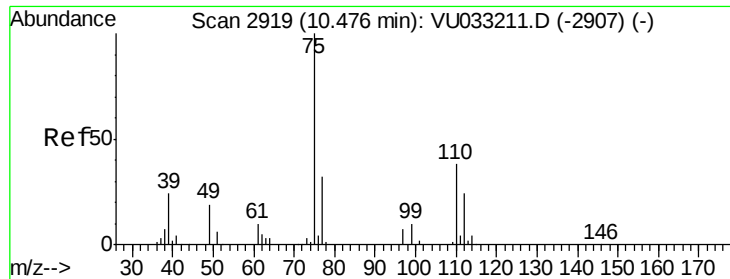
Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.3

131 9.5 7.6 11.4





#59

1,2,3-Trichloropropane

Concen: 45.596 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

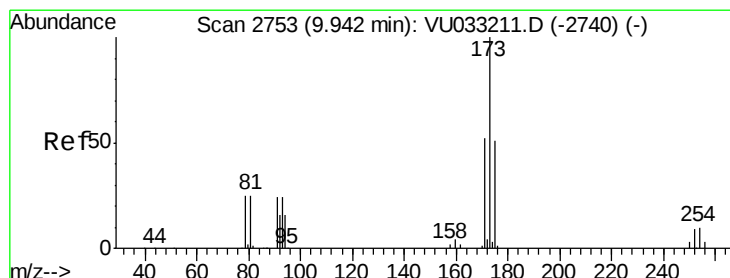
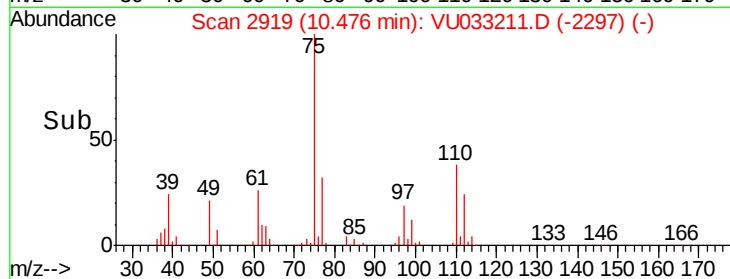
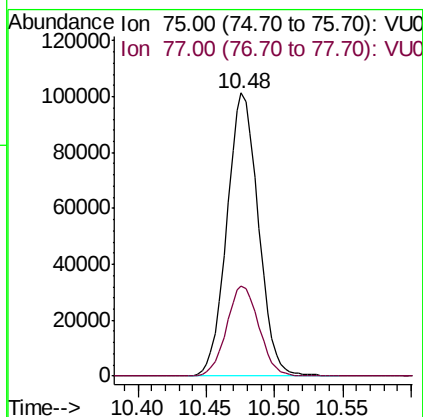
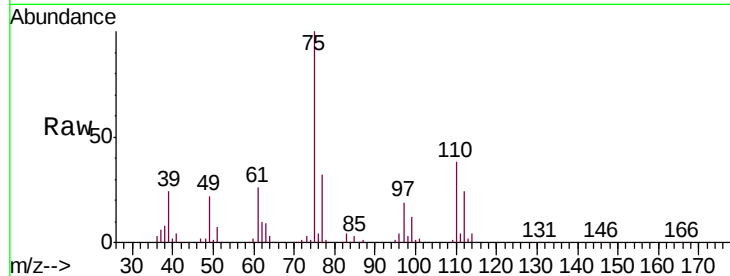
VSTD05034

Tgt Ion: 75 Resp: 162473

Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0



#61

Bromoform

Concen: 43.366 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

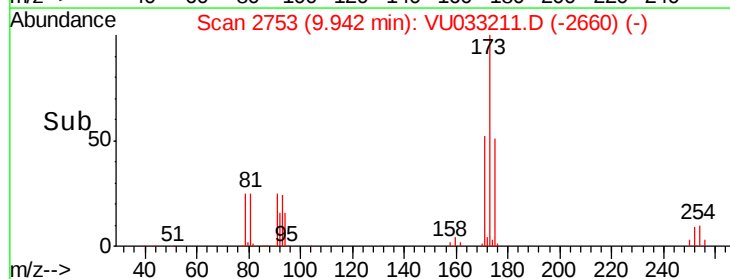
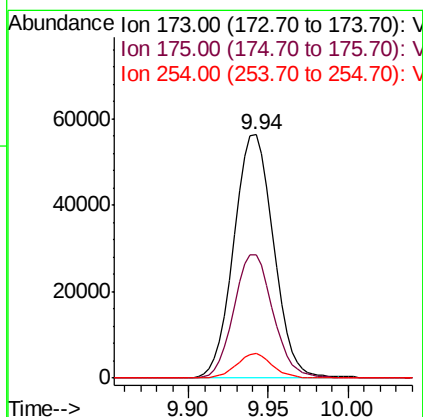
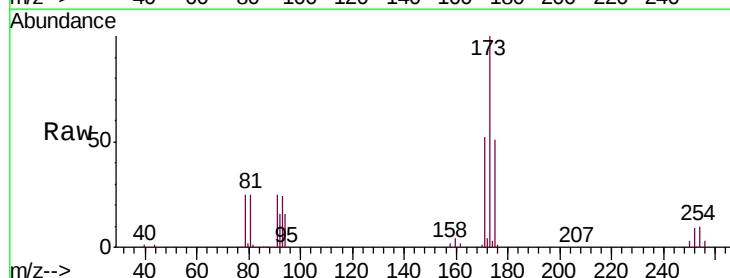
Tgt Ion: 173 Resp: 95410

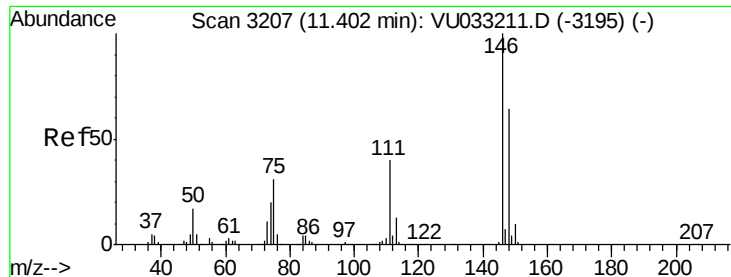
Ion Ratio Lower Upper

173 100

175 50.0 40.0 60.0

254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 45.726 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

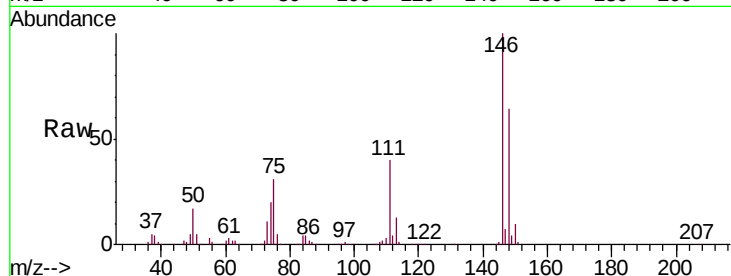
Tgt Ion:146 Resp: 242845

Ion Ratio Lower Upper

146 100

111 40.0 28.0 52.0

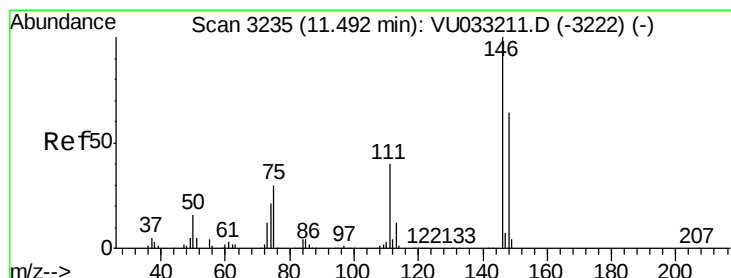
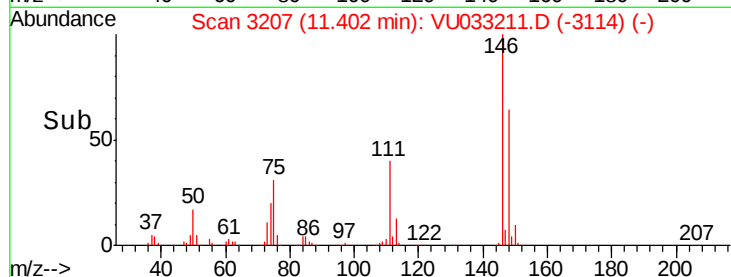
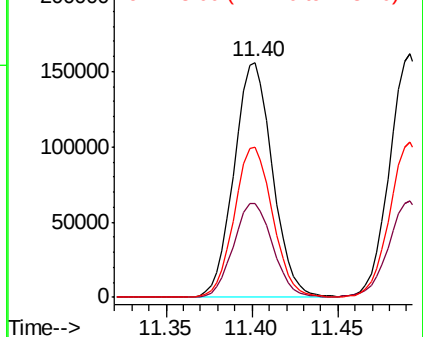
148 63.9 44.7 83.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 45.950 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

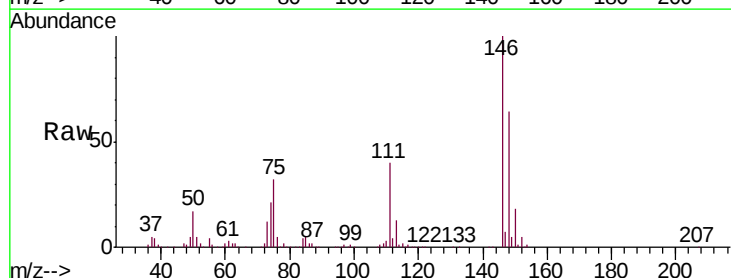
Tgt Ion:146 Resp: 252689

Ion Ratio Lower Upper

146 100

111 39.7 27.8 51.6

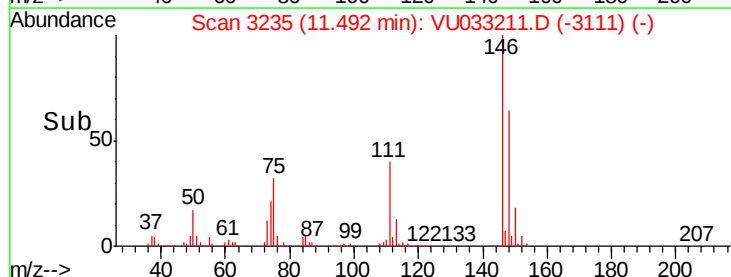
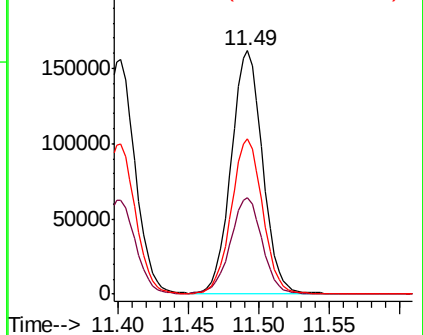
148 63.7 44.6 82.8

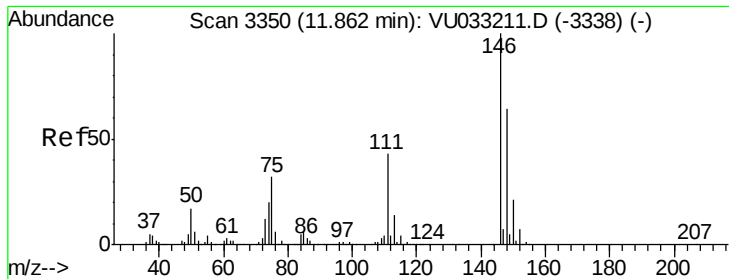


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

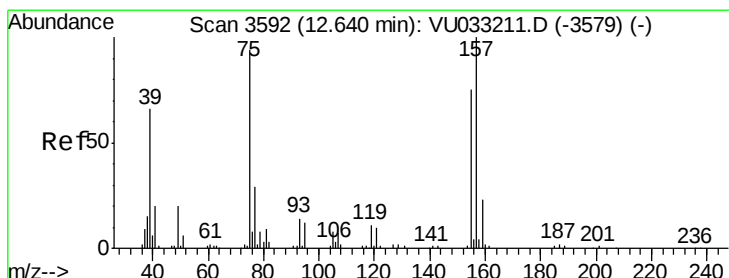
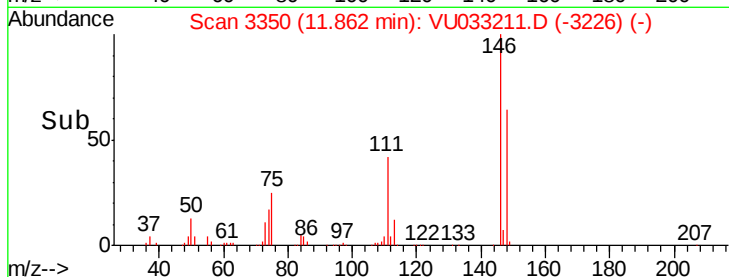
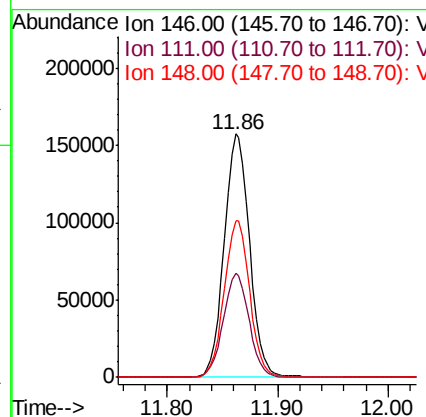
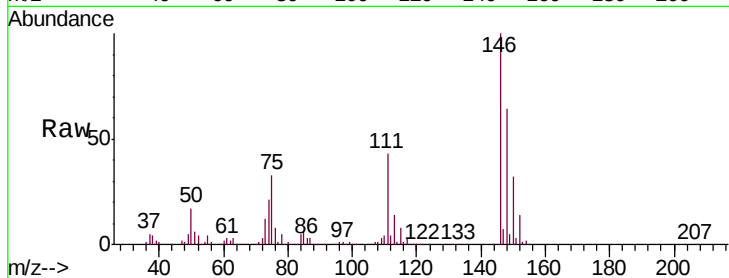




#65
 1,2-Dichlorobenzene
 Concen: 46.257 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

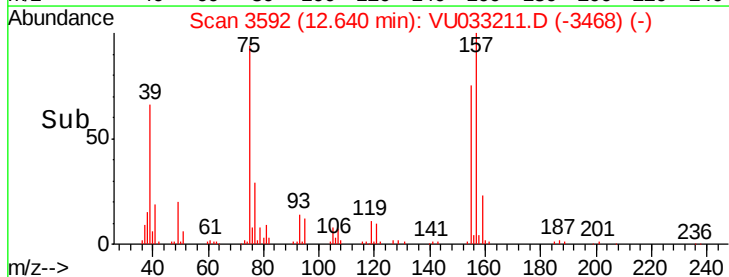
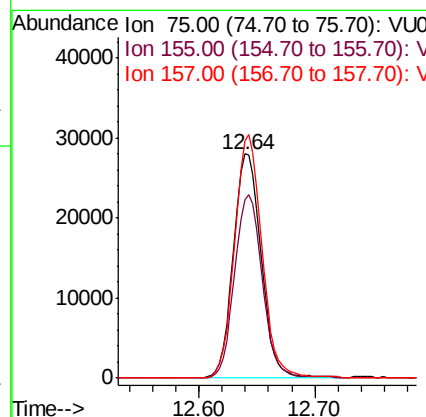
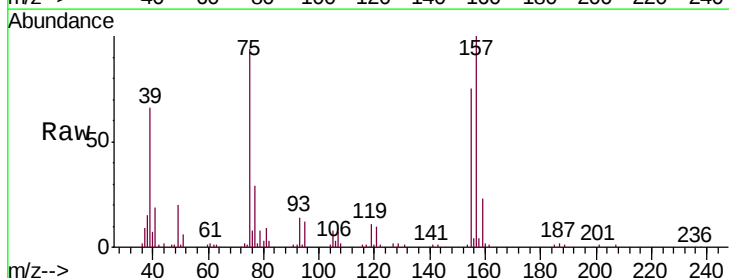
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

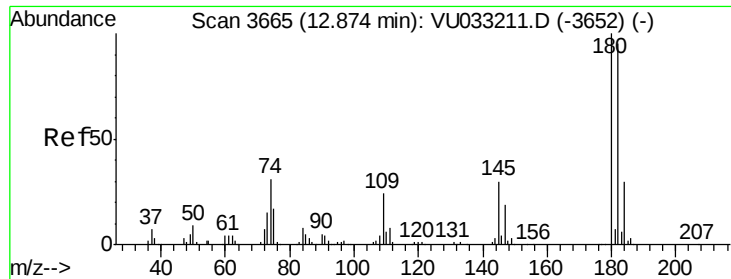
Tgt Ion: 146 Resp: 251420
 Ion Ratio Lower Upper
 146 100
 111 42.9 34.3 51.5
 148 64.4 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.322 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Tgt Ion: 75 Resp: 46610
 Ion Ratio Lower Upper
 75 100
 155 79.4 63.5 95.3
 157 105.8 84.6 127.0

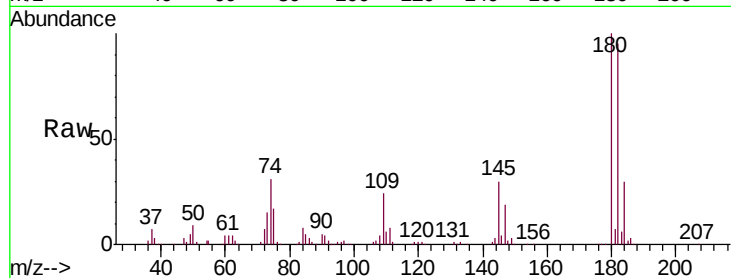




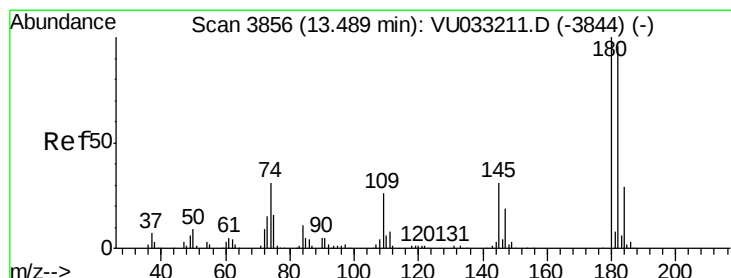
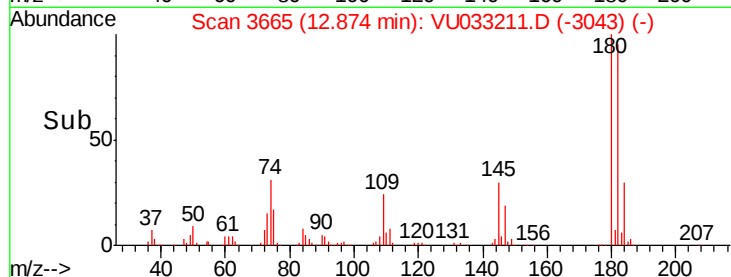
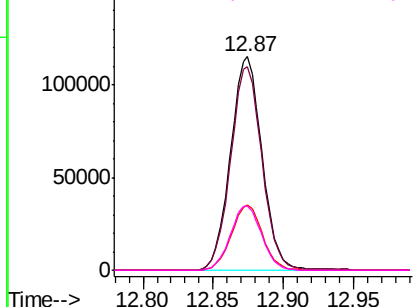
#67
 1,3,5-Trichlorobenzene
 Concen: 42.727 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion:	180	Resp:	180170
Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.5	113.3
184	30.2	24.2	36.2
145	30.1	24.1	36.1

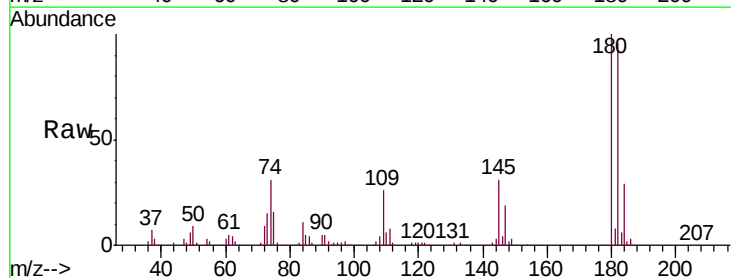


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

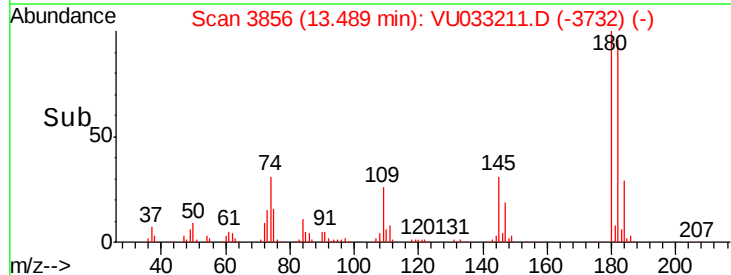
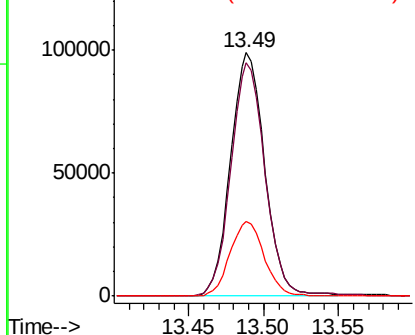


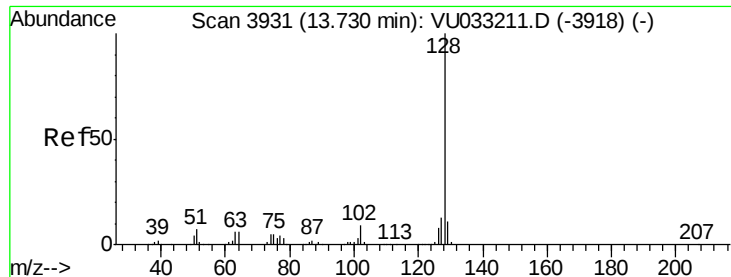
#68
 1,2,4-trichlorobenzene
 Concen: 43.733 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033211.D
 Acq: 12 Jul 2019 10:04

Tgt Ion:	180	Resp:	157455
Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.5	114.7
145	30.7	24.6	36.8



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





#69

Naphthalene

Concen: 46.856 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

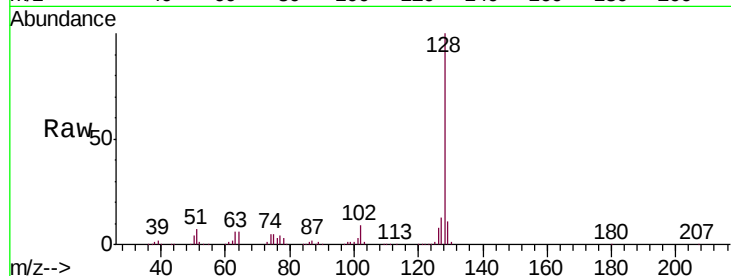
Tgt Ion:128 Resp: 525062

Ion Ratio Lower Upper

128 100

127 13.5 10.8 16.2

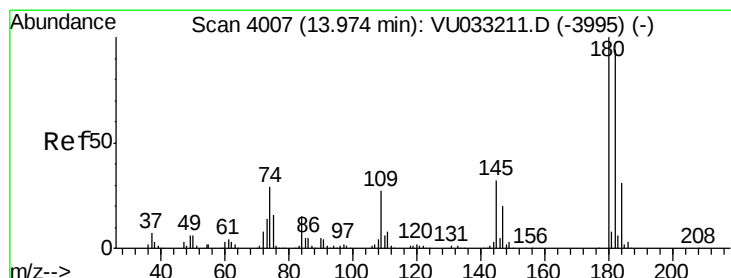
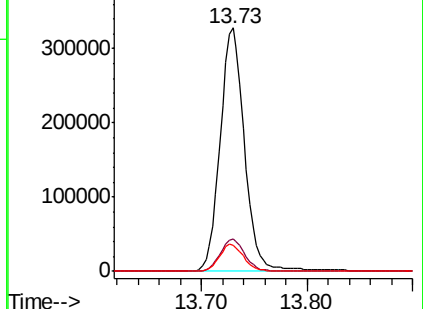
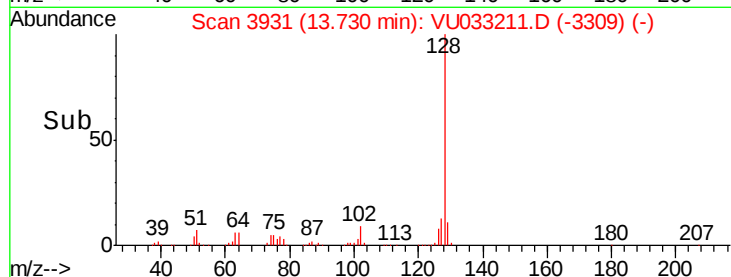
129 10.9 8.7 13.1



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: 43.269 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033211.D

Acq: 12 Jul 2019 10:04

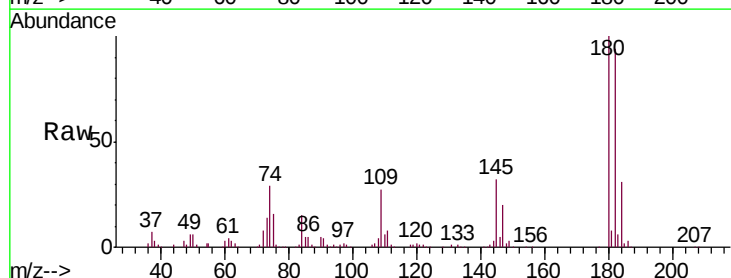
Tgt Ion:180 Resp: 165364

Ion Ratio Lower Upper

180 100

182 96.8 77.4 116.2

145 32.7 26.2 39.2



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

