

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073019\
 Data File : VU033486.D
 Acq On : 30 Jul 2019 11:48
 Operator : JC/SP
 Sample : MDL05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Quant Time: Jul 31 08:48:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	285750	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	299177	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	140091	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	116905	45.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.12%
7) Chloroethane-d5	1.67	69	103655	48.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.70%
11) 1,1-Dichloroethene-d2	2.25	63	166899	35.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.34%
21) 2-Butanone-d5	4.15	46	151108	101.63	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.63%
24) Chloroform-d	4.62	84	188459	48.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.06%
26) 1,2-Dichloroethane-d4	5.29	65	125421	50.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.12%
32) Benzene-d6	5.32	84	386446	48.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.24%
36) 1,2-Dichloropropane-d6	6.31	67	124720	50.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.12%
41) Toluene-d8	7.55	98	351474	46.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.10%
43) trans-1,3-Dichloropropene-	7.83	79	57186	46.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.96%
47) 2-Hexanone-d5	8.30	63	106680	103.09	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.09%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	182635	47.77	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.54%
66) 1,2-Dichlorobenzene-d4	11.85	152	136837	50.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.66%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6277	2.202 ug/L	99
3) Chloromethane	1.32	50	6385	2.243 ug/L	96
5) Vinyl chloride	1.40	62	7558	2.322 ug/L #	65
6) Bromomethane	1.62	94	4845	2.130 ug/L	97
8) Chloroethane	1.69	64	4997	2.502 ug/L	96
9) Trichlorofluoromethane	1.87	101	9528	2.232 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	5869	2.735 ug/L #	82
12) 1,1-Dichloroethene	2.27	96	5676	2.715 ug/L #	1
13) Acetone	2.31	43	7614	5.167 ug/L	94
14) Carbon disulfide	2.46	76	13934	2.237 ug/L	99
15) Methyl Acetate	2.60	43	5315	2.249 ug/L	100
16) Methylene chloride	2.69	84	5435	2.366 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	4743	2.284 ug/L	95
18) Methyl tert-butyl Ether	2.98	73	13156	2.147 ug/L	95
19) 1,1-Dichloroethane	3.42	63	9439	2.414 ug/L	93
20) cis-1,2-Dichloroethene	4.21	96	5037	2.198 ug/L	97
22) 2-Butanone	4.25	43	8017	4.579 ug/L	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

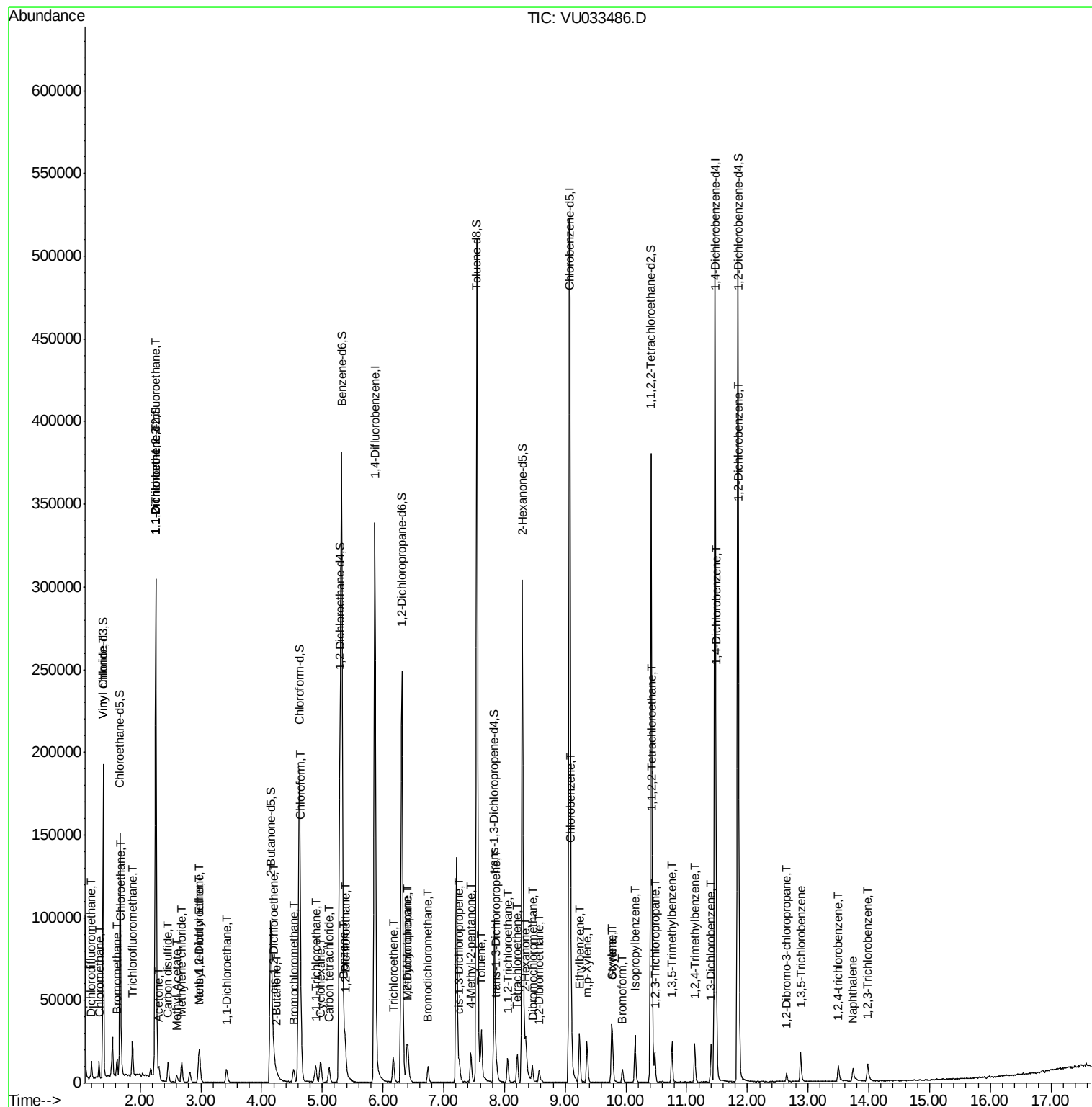
23) Bromochloromethane	4.52	128	2787	2.289	ug/L	87
25) Chloroform	4.65	83	17439	4.207	ug/L	95
27) 1,2-Dichloroethane	5.39	62	7395	2.297	ug/L	99
29) Cyclohexane	4.97	56	6375	1.940	ug/L #	90
30) 1,1,1-Trichloroethane	4.89	97	7885	2.213	ug/L	99
31) Carbon tetrachloride	5.11	117	6597	2.080	ug/L	91
33) Benzene	5.37	78	18731	2.095	ug/L	100
34) Trichloroethene	6.17	95	5186	2.226	ug/L	94
35) Methylcyclohexane	6.39	83	6824	1.926	ug/L	99
37) 1,2-Dichloropropane	6.41	63	5165	2.148	ug/L #	91
38) Bromodichloromethane	6.74	83	6724	2.124	ug/L	93
39) cis-1,3-Dichloropropene	7.25	75	7754	2.162	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	12111	3.821	ug/L	97
42) Toluene	7.62	91	21427	2.227	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	6618	2.033	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	5033	2.194	ug/L	97
46) Tetrachloroethene	8.21	164	3885	2.049	ug/L	94
48) 2-Hexanone	8.35	43	13905	5.385	ug/L #	94
49) Dibromochloromethane	8.46	129	5212	2.029	ug/L	97
50) 1,2-Dibromoethane	8.57	107	5458	2.193	ug/L #	97
51) Chlorobenzene	9.10	112	14583	2.281	ug/L	97
52) Ethylbenzene	9.23	91	20173	1.934	ug/L	93
53) m,p-Xylene	9.36	106	7698	1.962	ug/L	97
54) o-xylene	9.76	106	7007	1.822	ug/L	88
55) Styrene	9.78	104	10919	1.673	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.44	83	9298	2.280	ug/L #	96
59) Bromoform	9.95	173	3789	2.162	ug/L #	90
60) 1,2,3-Trichloropropane	10.48	75	7124	2.496	ug/L	95
61) Isopropylbenzene	10.15	105	17207	1.918	ug/L	97
62) 1,3,5-Trimethylbenzene	10.76	105	13337	1.834	ug/L	98
63) 1,2,4-Trimethylbenzene	11.13	105	12716	1.764	ug/L	99
64) 1,3-Dichlorobenzene	11.40	146	9635	2.107	ug/L	95
65) 1,4-Dichlorobenzene	11.49	146	10322	2.185	ug/L	98
67) 1,2-Dichlorobenzene	11.86	146	11048	2.411	ug/L	92
68) 1,2-Dibromo-3-chloropropan	12.65	75	1562	1.969	ug/L #	79
69) 1,3,5-Trichlorobenzene	12.88	180	6578	1.894	ug/L	96
70) 1,2,4-trichlorobenzene	13.50	180	4318	1.490	ug/L	95
71) Naphthalene	13.74	128	10550	1.259	ug/L #	89
72) 1,2,3-Trichlorobenzene	13.98	180	4713	1.552	ug/L	97

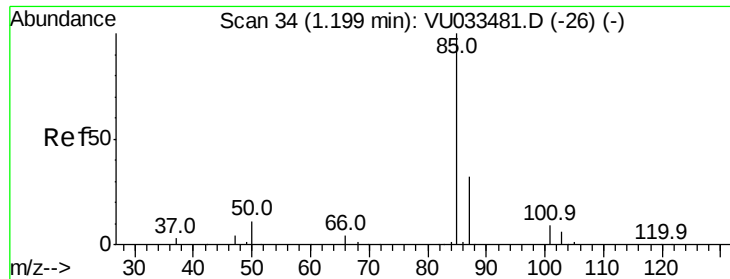
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.202 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

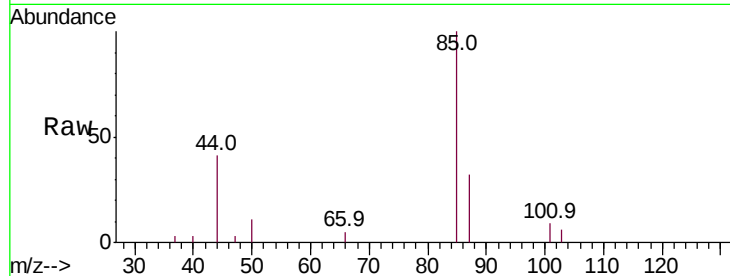
MDL05

Tot Ion: 85 Resp: 6277

Ion Ratio Lower Upper

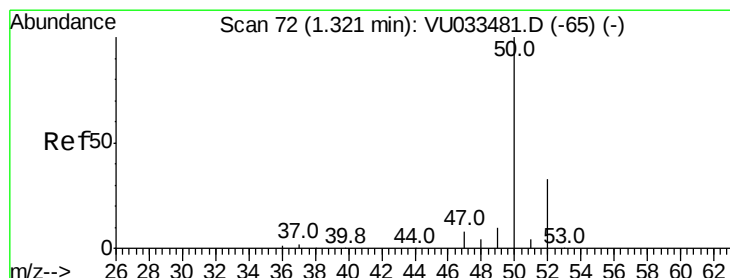
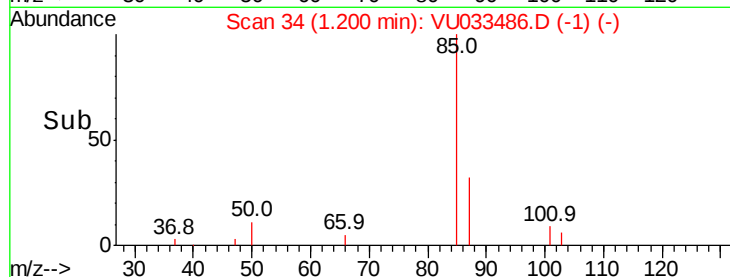
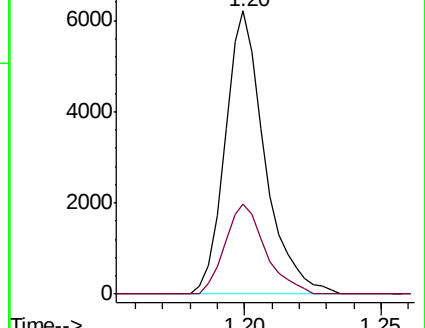
85 100

87 32.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033486.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033486.D (-1) (-)



#3

Chloromethane

Concen: 2.243 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033486.D

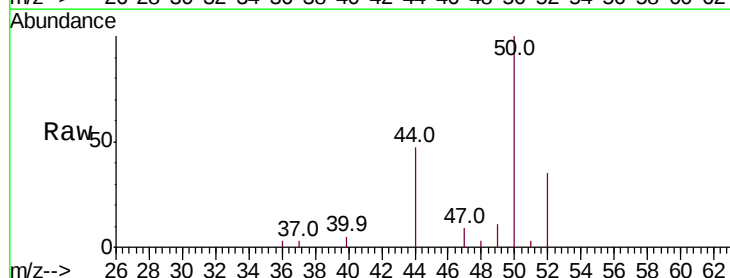
Acq: 30 Jul 2019 11:48

Tgt Ion: 50 Resp: 6385

Ion Ratio Lower Upper

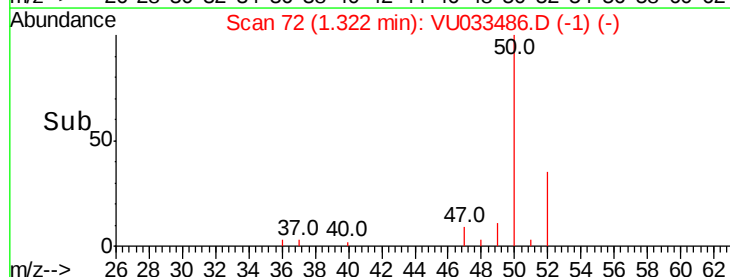
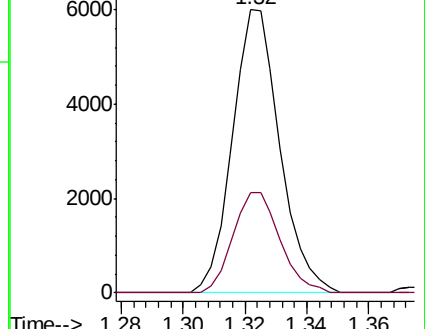
50 100

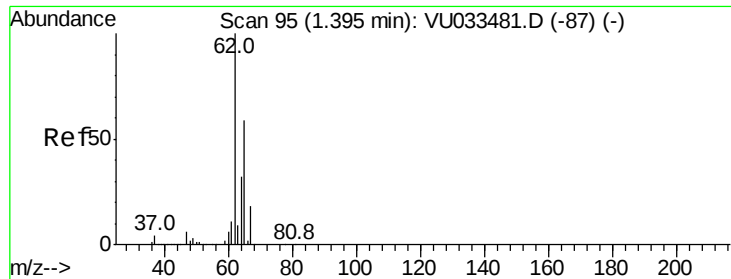
52 35.4 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033486.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033486.D (-1) (-)





#5

Vinyl chloride

Concen: 2.322 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

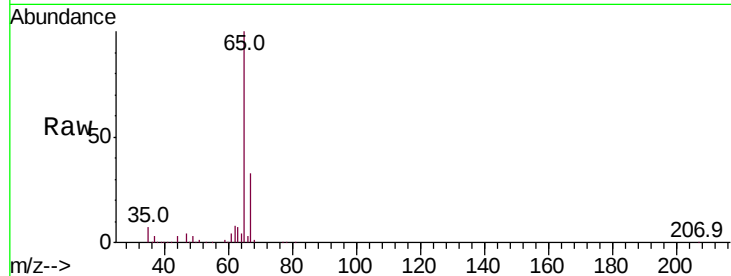
MDL05

Tot Ion: 62 Resp: 7558

Ion Ratio Lower Upper

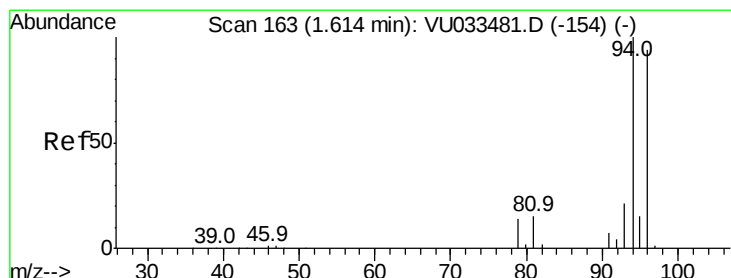
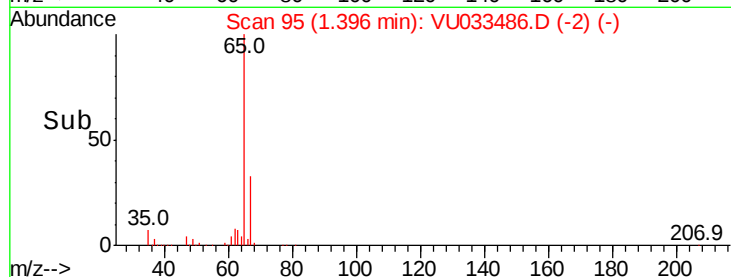
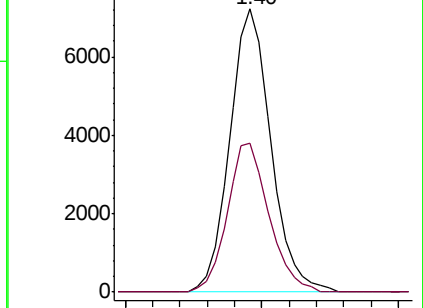
62 100

64 52.5 23.0 42.6#



Abundance Ion 62.00 (61.70 to 62.70): VU033486.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033486.D (-87) (-)



#6

Bromomethane

Concen: 2.130 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033486.D

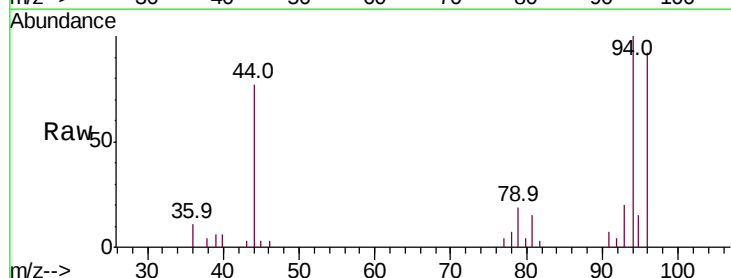
Acq: 30 Jul 2019 11:48

Tgt Ion: 94 Resp: 4845

Ion Ratio Lower Upper

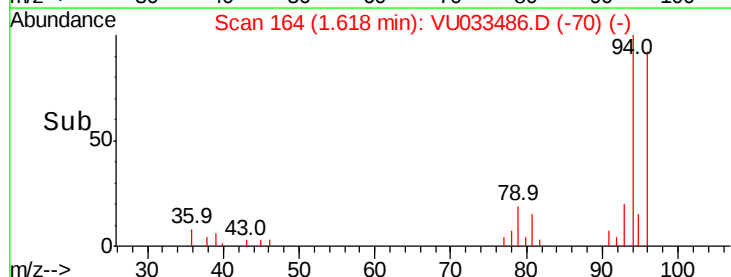
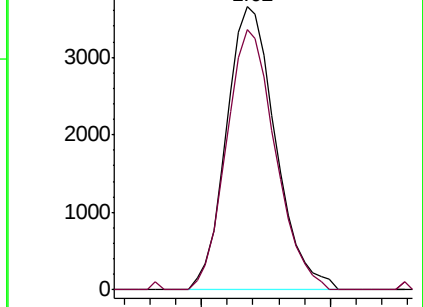
94 100

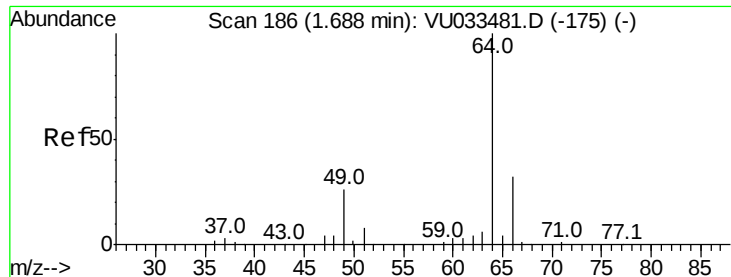
96 91.9 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033486.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033486.D (-154) (-)

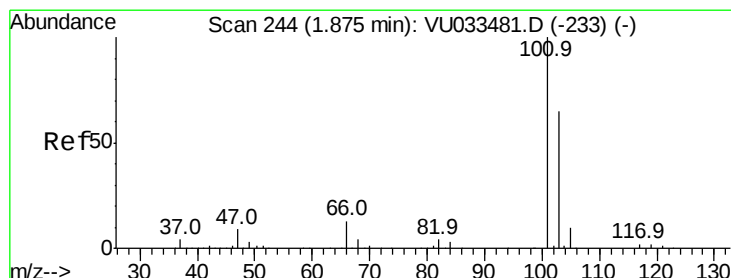
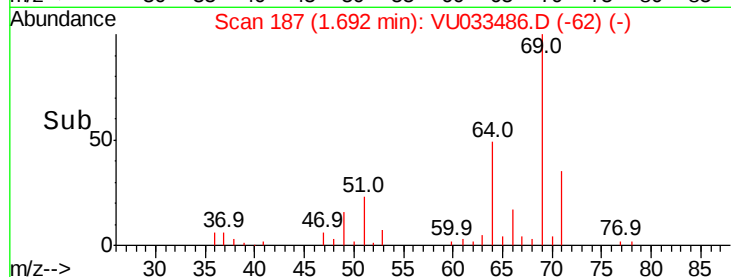
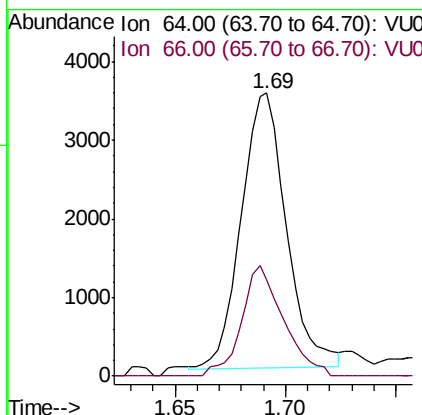
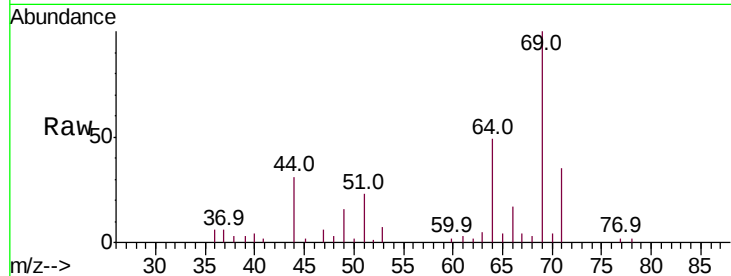




#8
Chloroethane
Concen: 2.502 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

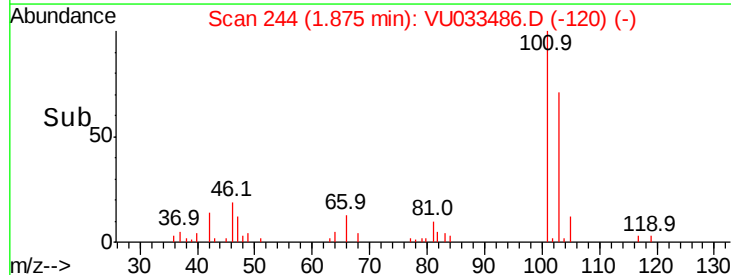
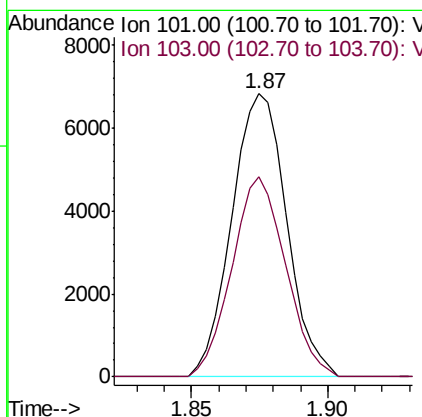
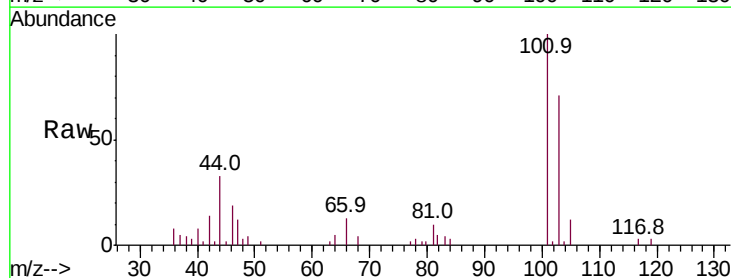
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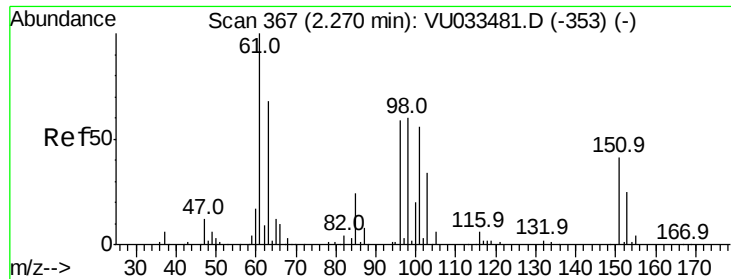
Tot Ion: 64 Resp: 4997
Ion Ratio Lower Upper
64 100
66 34.0 22.1 41.1



#9
Trichlorofluoromethane
Concen: 2.232 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion: 101 Resp: 9528
Ion Ratio Lower Upper
101 100
103 69.2 51.2 76.8





#10

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

Concen: 2.735 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

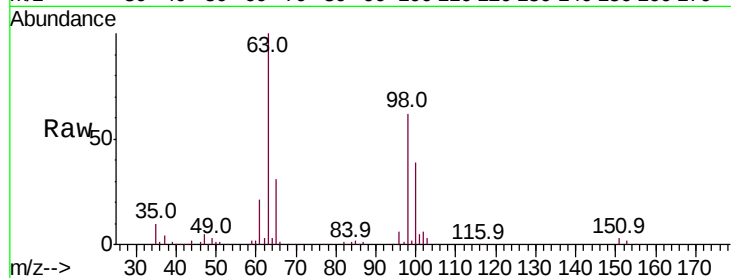
Tot Ion:101 Resp: 5869

Ion Ratio Lower Upper

101 100

85 36.1 35.8 53.8

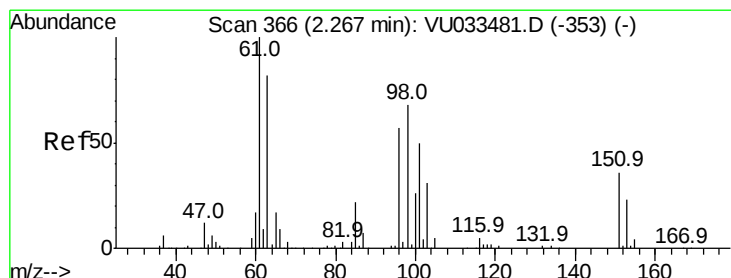
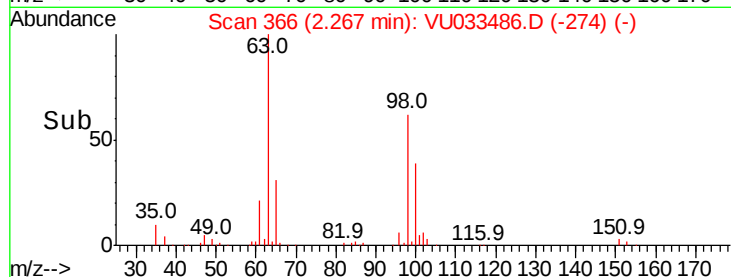
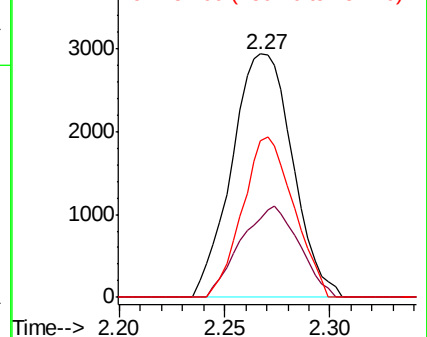
151 55.9 58.6 87.8#



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: 2.715 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

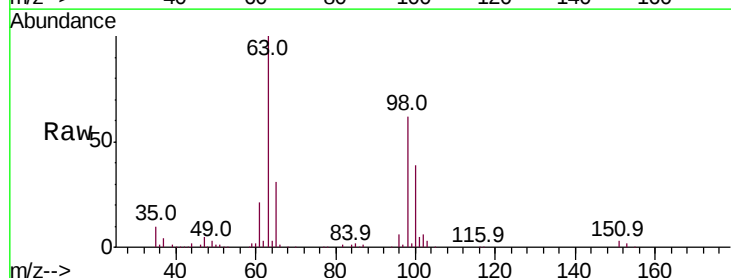
Tgt Ion: 96 Resp: 5676

Ion Ratio Lower Upper

96 100

61 363.7 124.1 230.5#

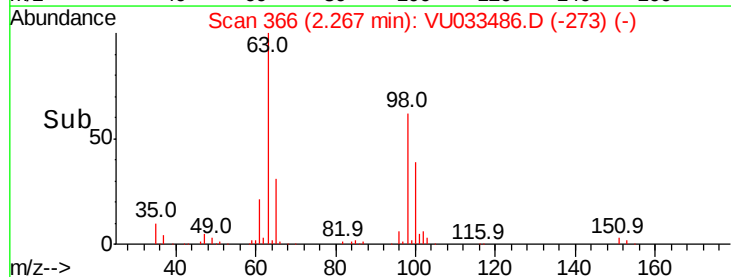
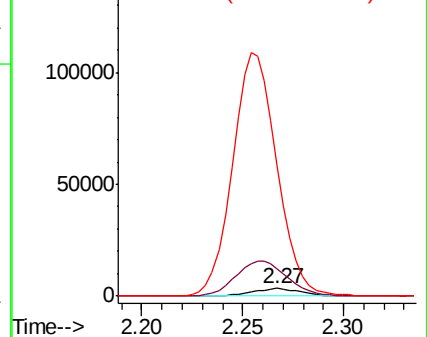
63 1723.7 101.8 189.2#

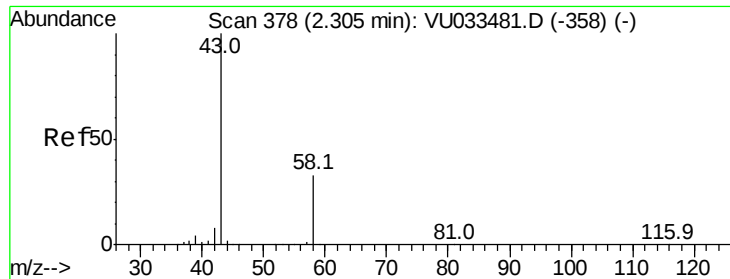


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.167 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

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ClientSampleId :

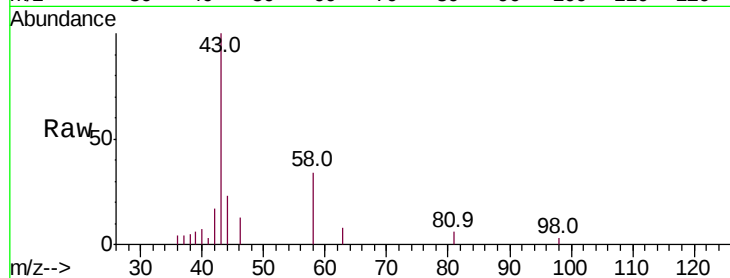
MDL05

Tot Ion: 43 Resp: 7614

Ion Ratio Lower Upper

43 100

58 30.5 0.0 67.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.31

4000

3000

2000

1000

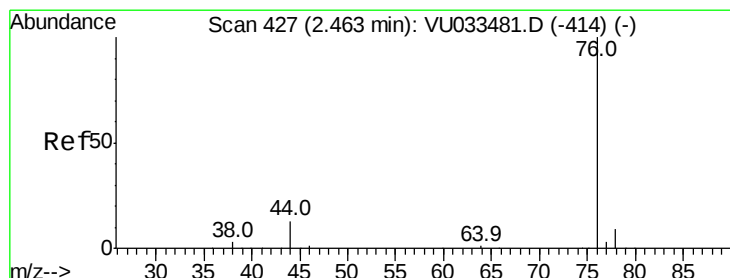
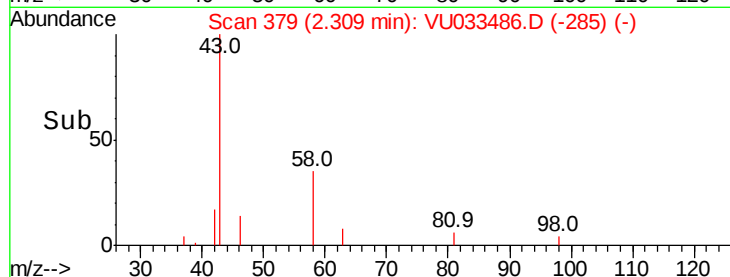
0

Time-->

2.25

2.30

2.35



#14

Carbon disulfide

Concen: 2.237 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033486.D

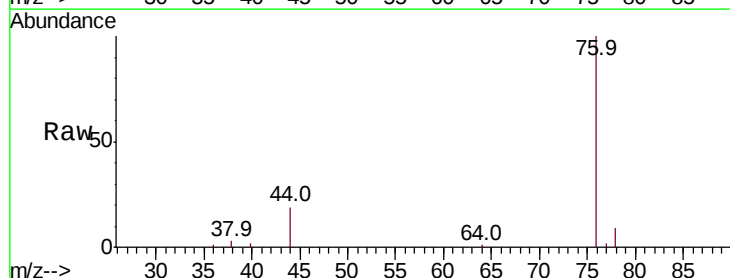
Acq: 30 Jul 2019 11:48

Tgt Ion: 76 Resp: 13934

Ion Ratio Lower Upper

76 100

78 8.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.46

10000

8000

6000

4000

2000

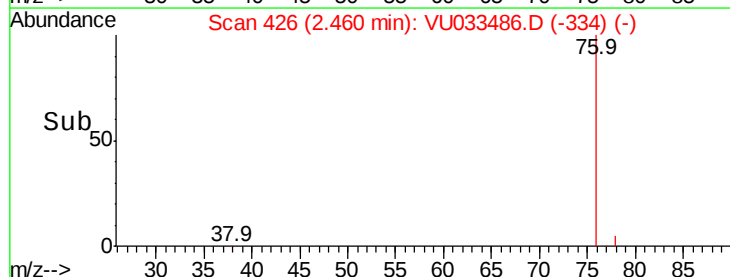
0

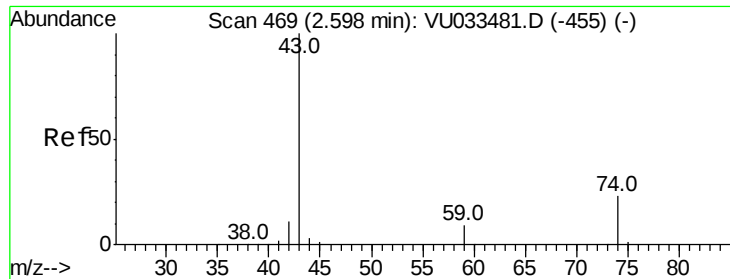
Time-->

2.40

2.45

2.50

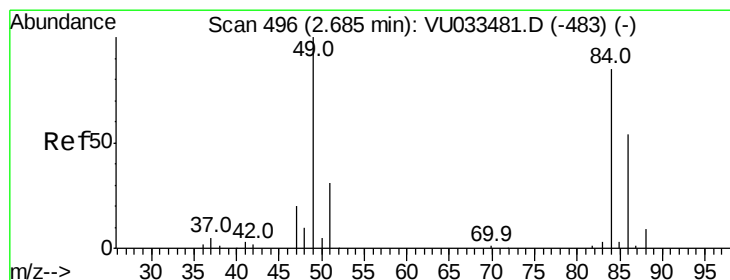
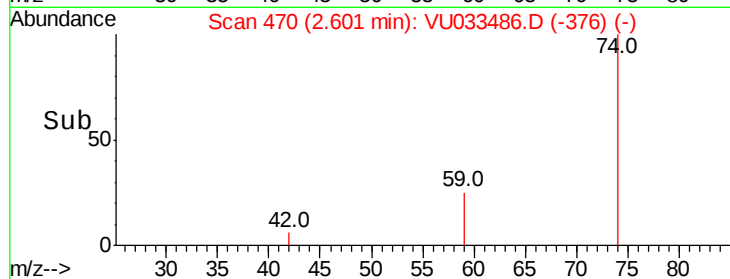
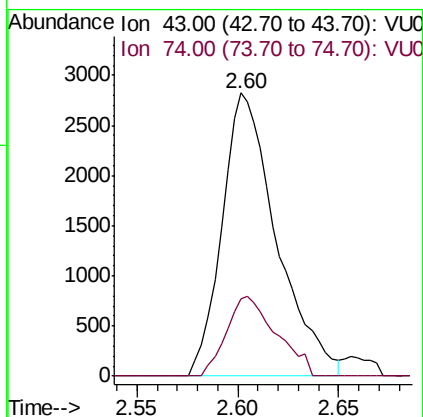
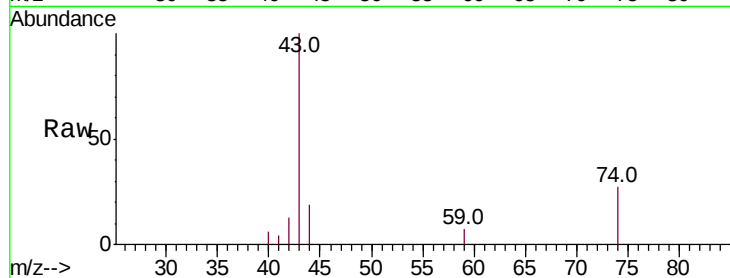




#15
Methvl Acetate
Concen: 2.249 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

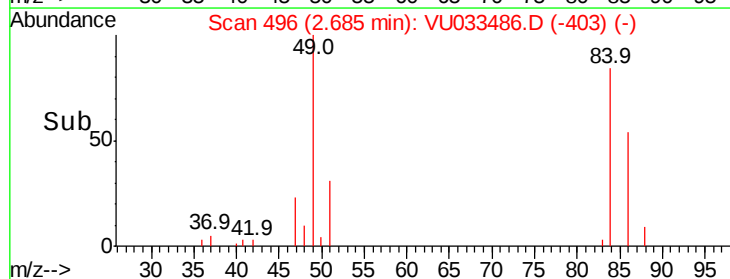
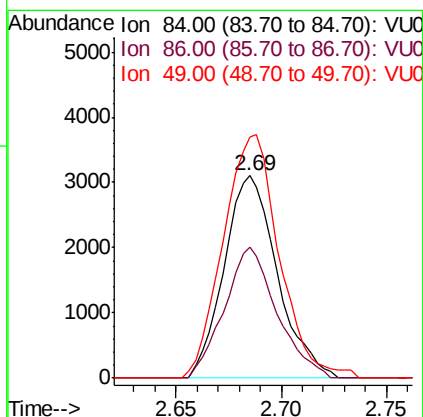
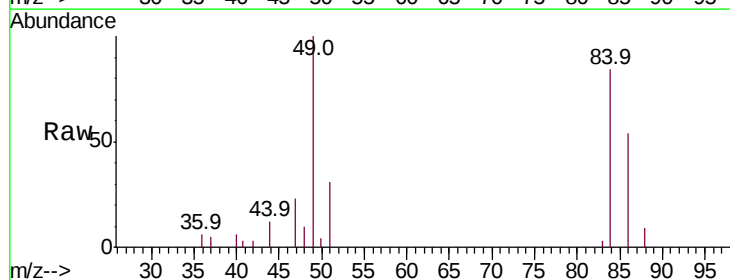
Instrument :
MSVOA_U
ClientSampleId :
MDL05

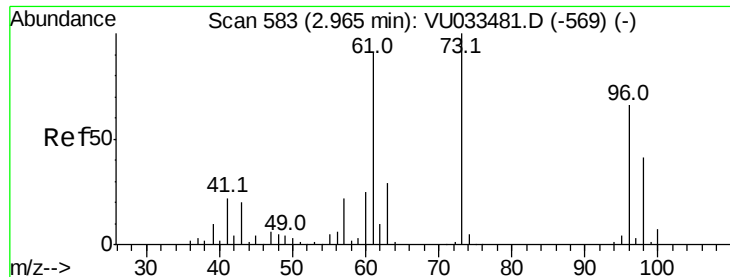
Tot Ion: 43 Resp: 5315
Ion Ratio Lower Upper
43 100
74 25.7 20.5 30.7



#16
Methylene chloride
Concen: 2.366 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion: 84 Resp: 5435
Ion Ratio Lower Upper
84 100
86 64.4 44.2 82.0
49 118.9 82.3 152.8





#17

trans-1,2-Dichloroethene

Concen: 2.284 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

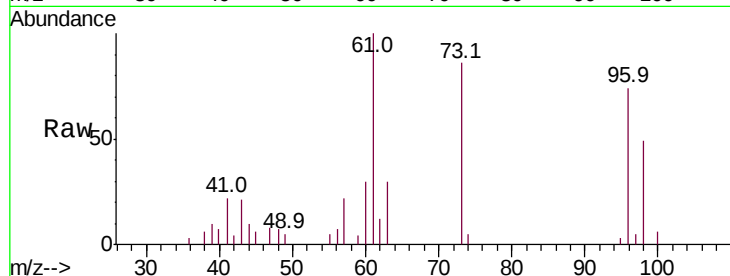
Tot Ion: 96 Resp: 4743

Ion Ratio Lower Upper

96 100

61 135.4 100.3 186.3

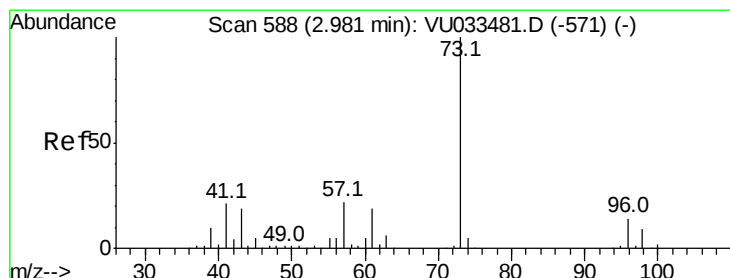
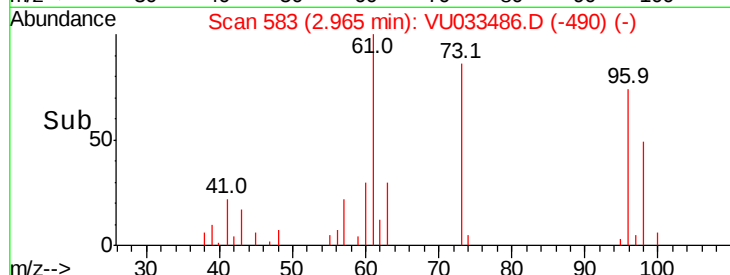
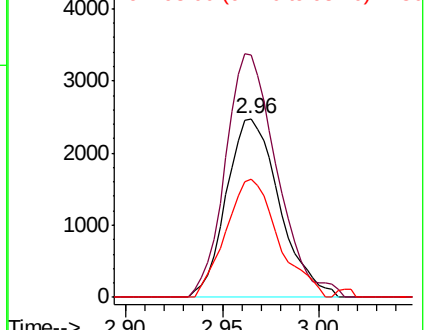
98 66.3 45.1 83.9



Abundance Ion 96.00 (95.70 to 96.70): VU033486.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033486.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033486.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 2.147 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

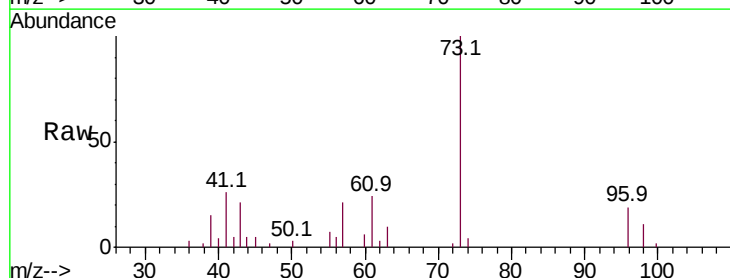
Tgt Ion: 73 Resp: 13156

Ion Ratio Lower Upper

73 100

43 21.2 15.3 22.9

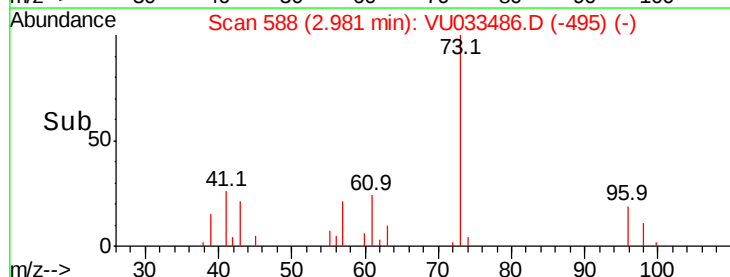
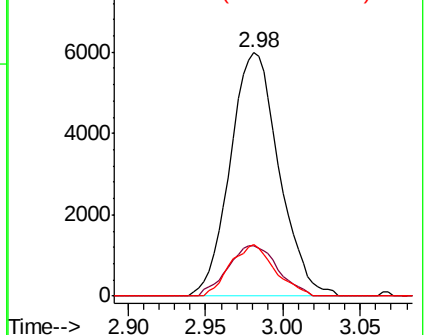
57 19.2 17.7 26.5

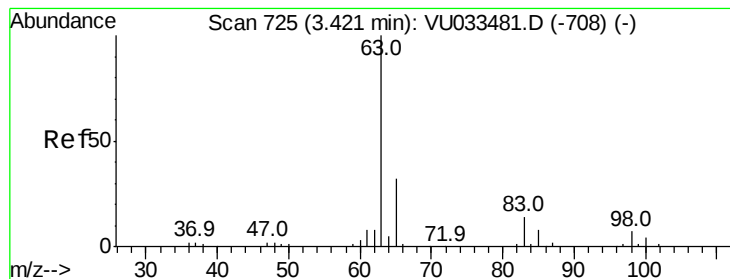


Abundance Ion 73.00 (72.70 to 73.70): VU033486.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU033486.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU033486.D (-495) (-)





#19

1,1-Dichloroethane

Concen: 2.414 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

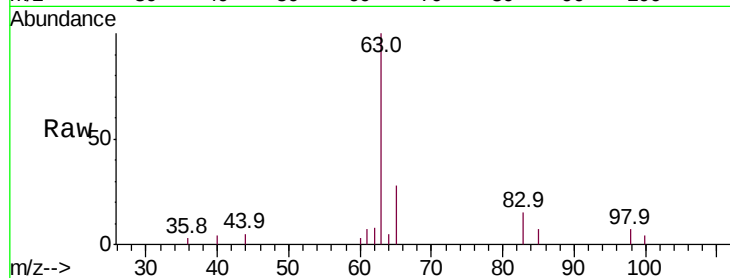
Tot Ion: 63 Resp: 9439

Ion Ratio Lower Upper

63 100

65 27.5 22.7 42.1

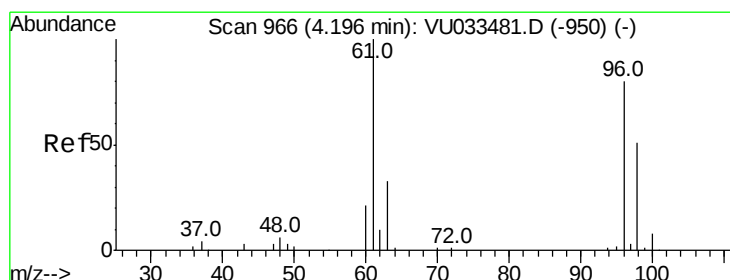
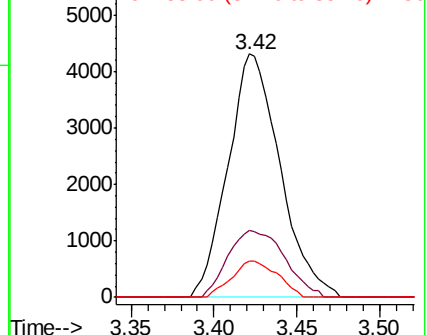
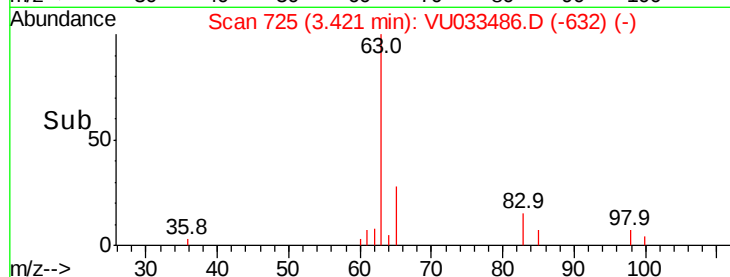
83 14.9 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU033486.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033486.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033486.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.198 ug/L

RT: 4.21 min Scan# 969

Delta R.T. 0.01 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

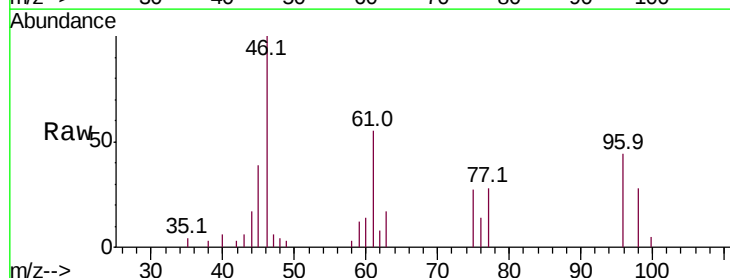
Tgt Ion: 96 Resp: 5037

Ion Ratio Lower Upper

96 100

61 123.0 88.9 165.1

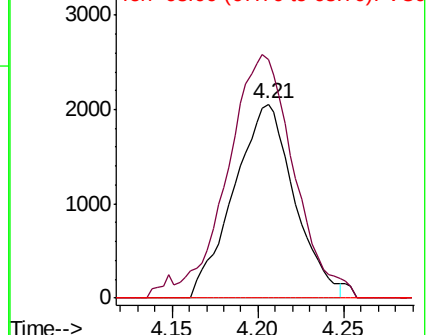
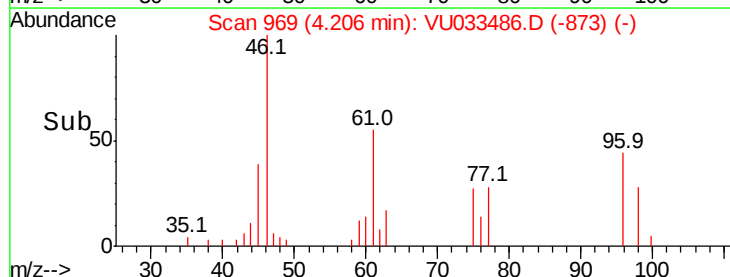
68 0.0 0.0 0.0

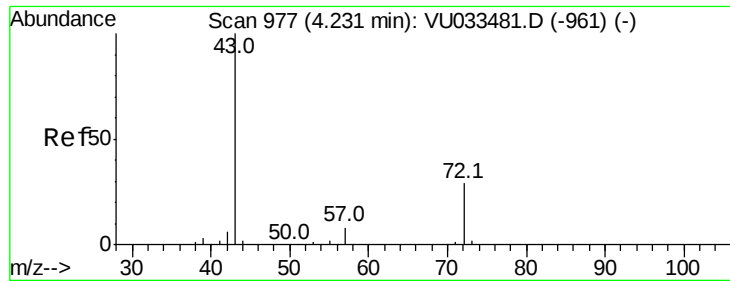


Abundance Ion 96.00 (95.70 to 96.70): VU033486.D (-873) (-)

Ion 61.00 (60.70 to 61.70): VU033486.D (-873) (-)

Ion 68.00 (67.70 to 68.70): VU033486.D (-873) (-)





#22

2-Butanone

Concen: 4.579 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

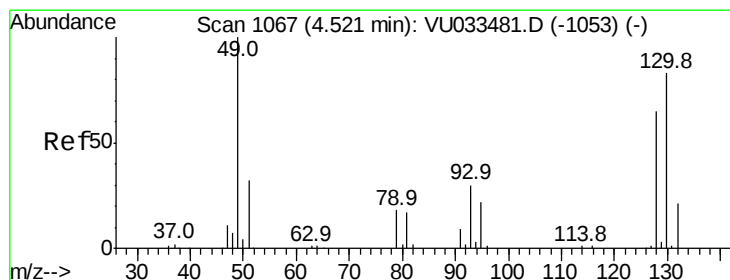
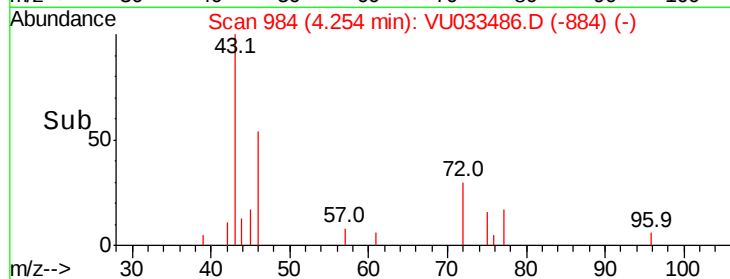
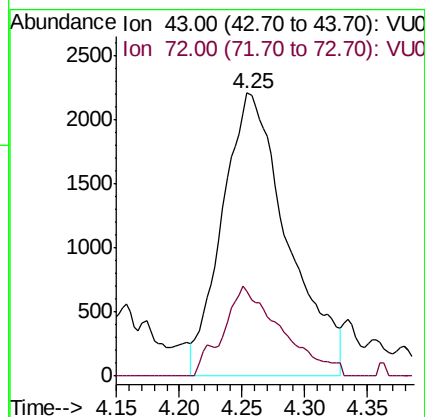
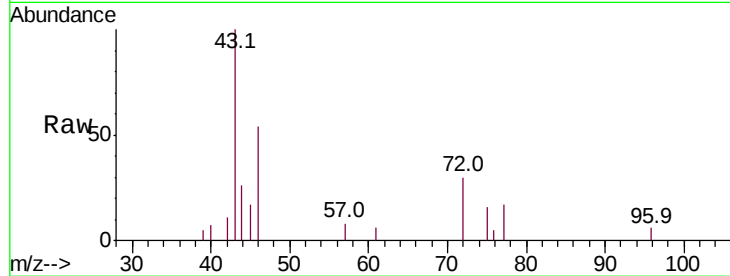
MDL05

Tot Ion: 43 Resp: 8017

Ion Ratio Lower Upper

43 100

72 21.7 14.1 42.3



#23

Bromochloromethane

Concen: 2.289 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Tgt Ion: 128 Resp: 2787

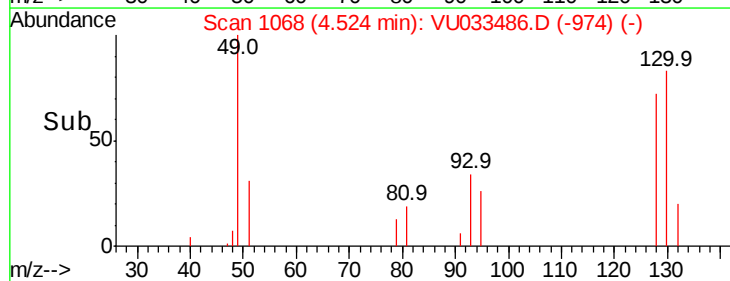
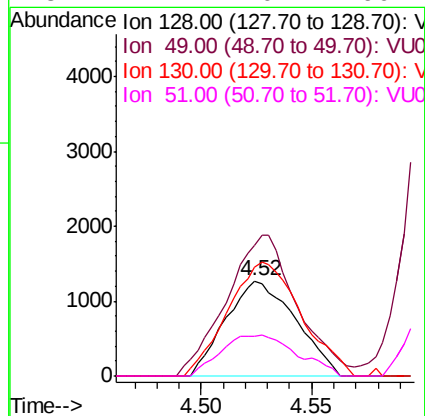
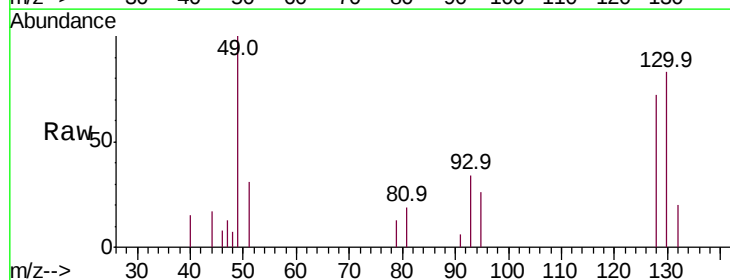
Ion Ratio Lower Upper

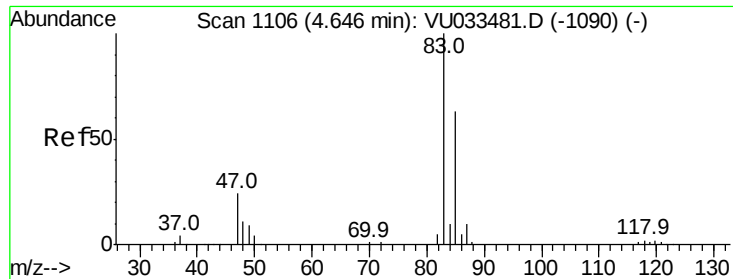
128 100

49 138.3 108.0 200.6

130 114.6 92.9 172.5

51 42.4 40.2 60.4

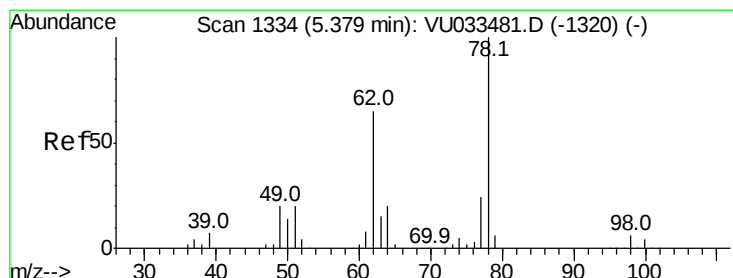
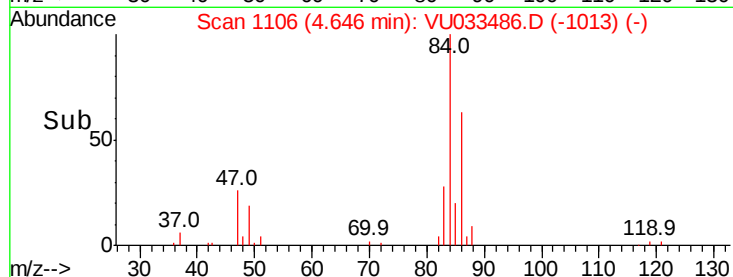
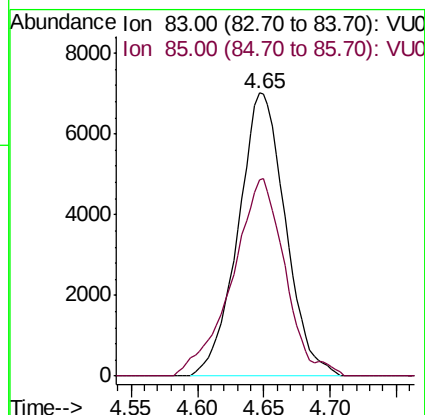
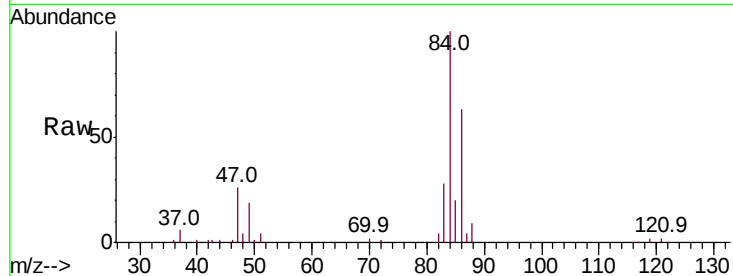




#25
Chloroform
Concen: 4.207 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

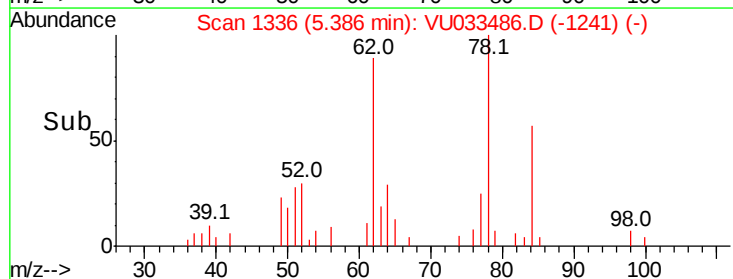
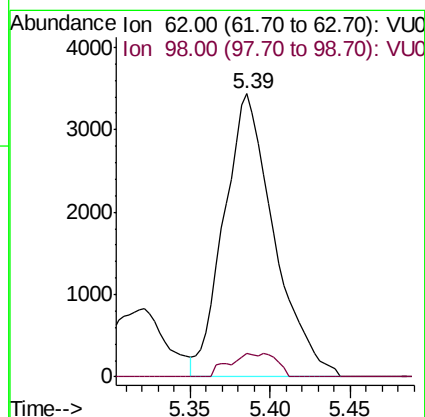
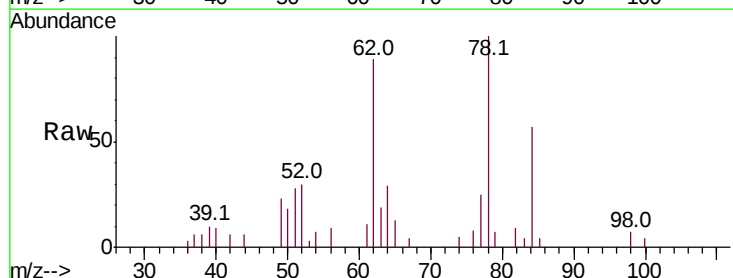
Instrument :
MSVOA_U
ClientSampleId :
MDL05

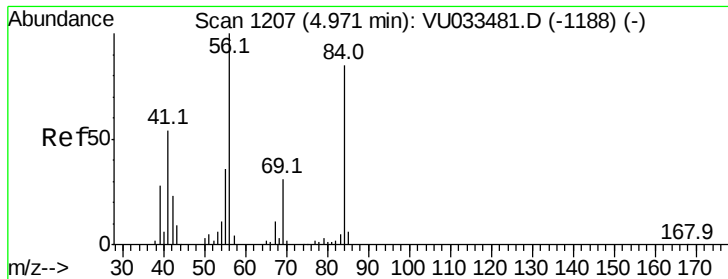
Tot Ion: 83 Resp: 17439
Ion Ratio Lower Upper
83 100
85 69.5 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.297 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion: 62 Resp: 7395
Ion Ratio Lower Upper
62 100
98 8.1 6.7 10.1

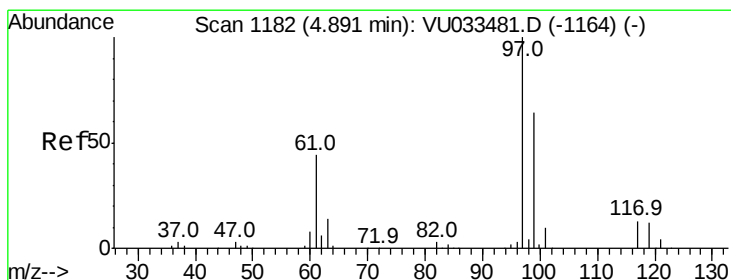
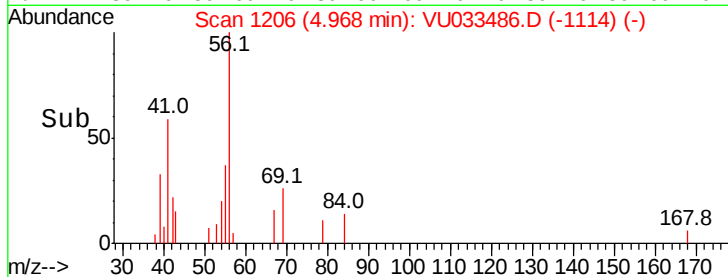
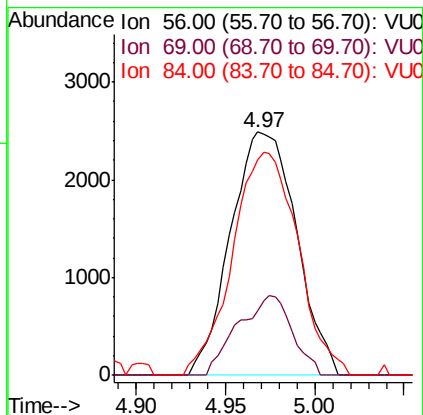
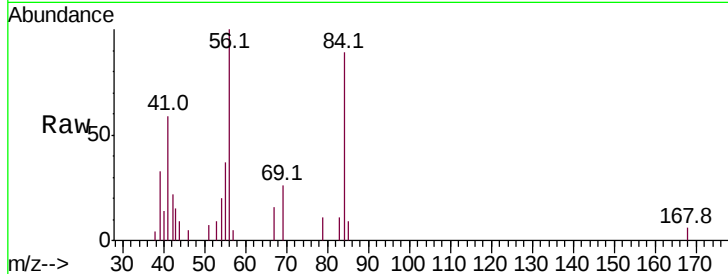




#29
Cyclohexane
Concen: 1.940 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

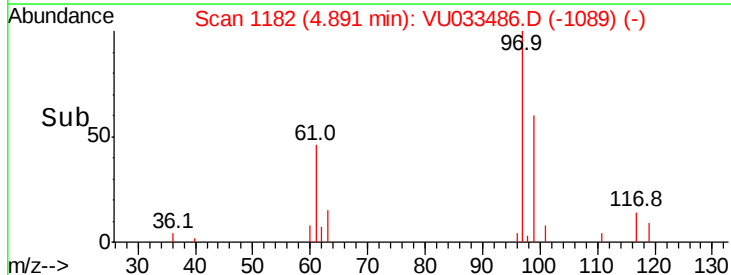
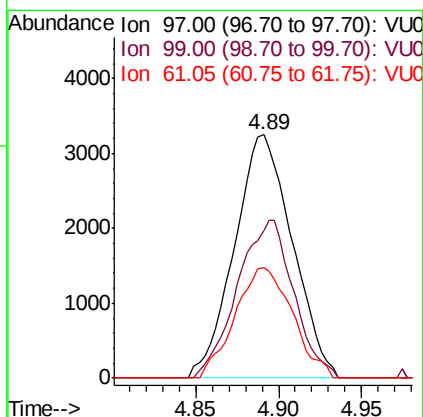
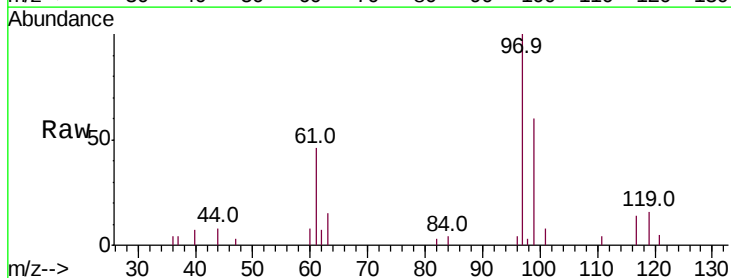
Instrument :
MSVOA_U
ClientSampleId :
MDL05

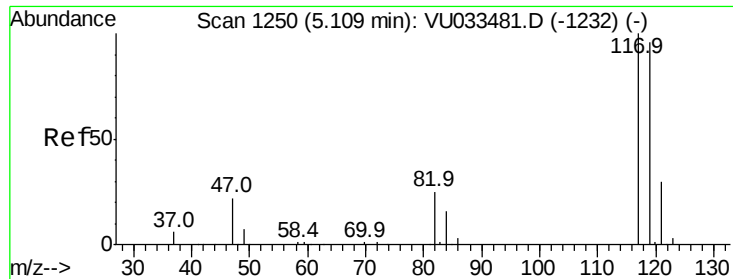
Tot Ion: 56 Resp: 6375
Ion Ratio Lower Upper
56 100
69 17.2 25.3 37.9#
84 91.5 69.6 104.4



#30
1,1,1-Trichloroethane
Concen: 2.213 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion: 97 Resp: 7885
Ion Ratio Lower Upper
97 100
99 63.1 51.8 77.6
61 45.2 36.2 54.2





#31

Carbon tetrachloride

Concen: 2.080 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

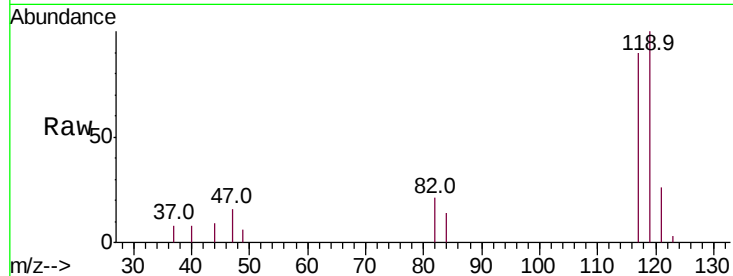
MDL05

Tot Ion:117 Resp: 6597

Ion Ratio Lower Upper

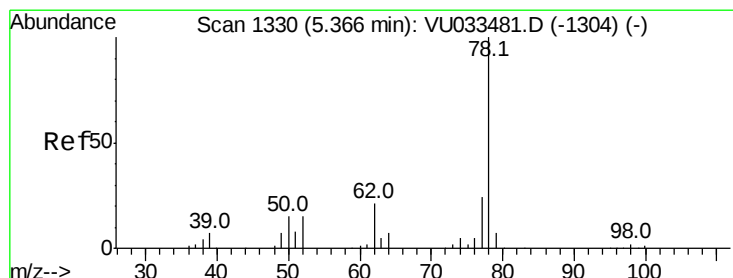
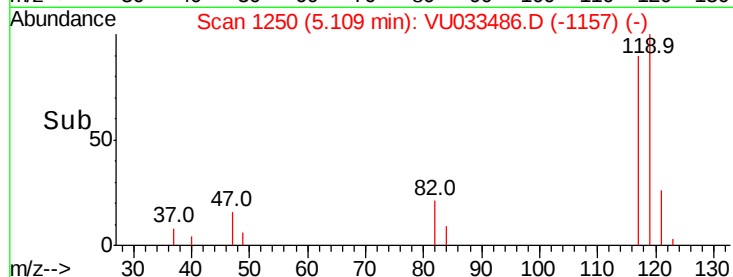
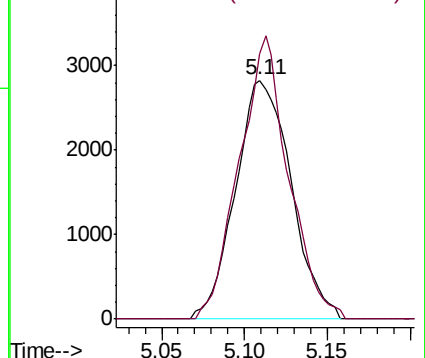
117 100

119 104.9 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.095 ug/L

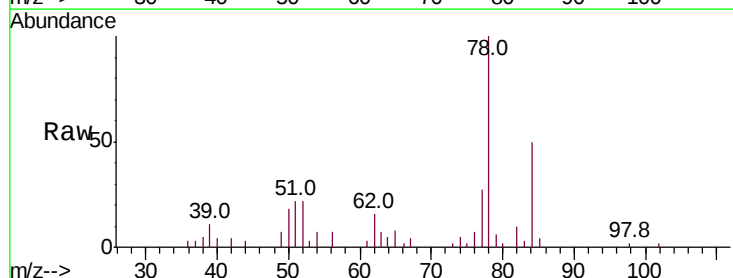
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

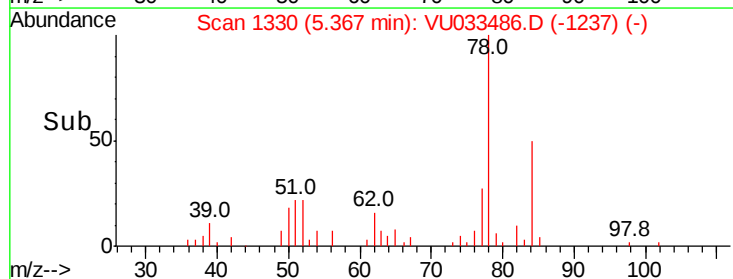
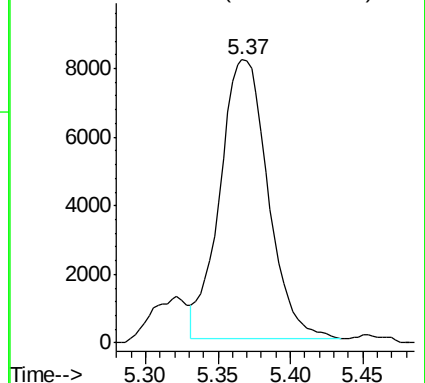
Lab File: VU033486.D

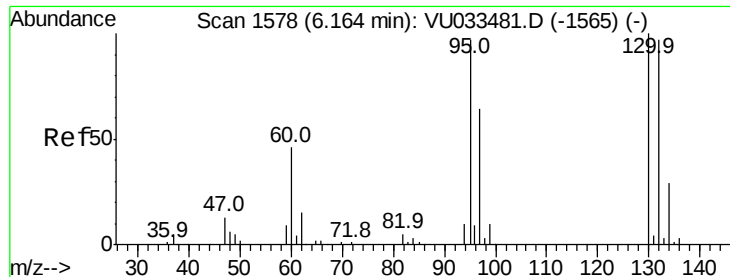
Acq: 30 Jul 2019 11:48

Tgt Ion: 78 Resp: 18731



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.226 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 95 Resp: 5186

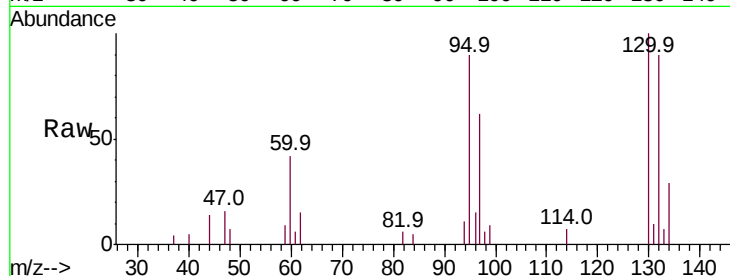
Ion Ratio Lower Upper

95 100

97 69.0 45.4 84.2

132 100.0 67.1 124.5

130 111.2 71.4 132.6

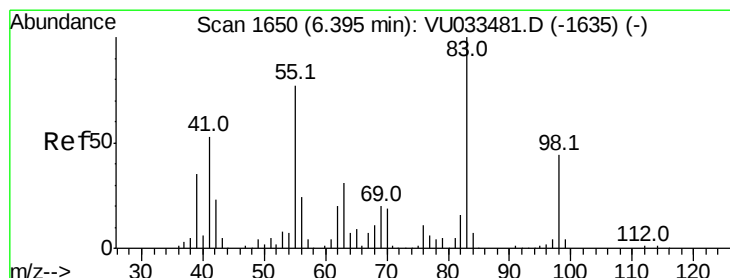
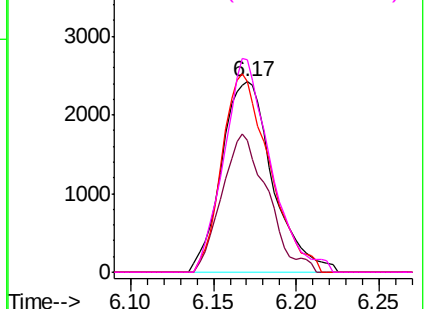
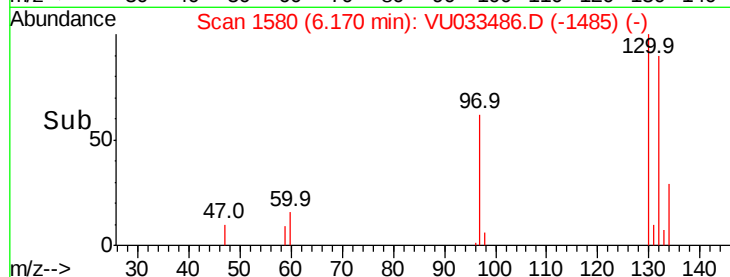


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 1.926 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

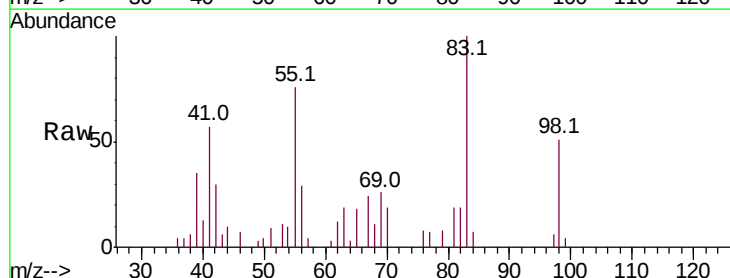
Tgt Ion: 83 Resp: 6824

Ion Ratio Lower Upper

83 100

55 76.1 62.4 93.6

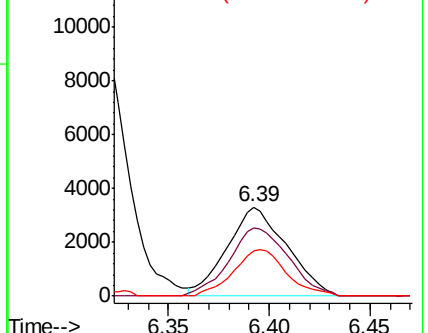
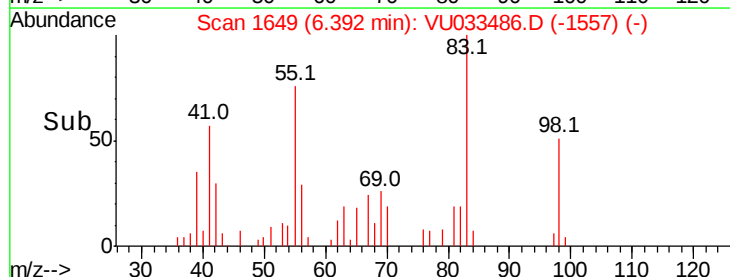
98 46.7 37.3 55.9

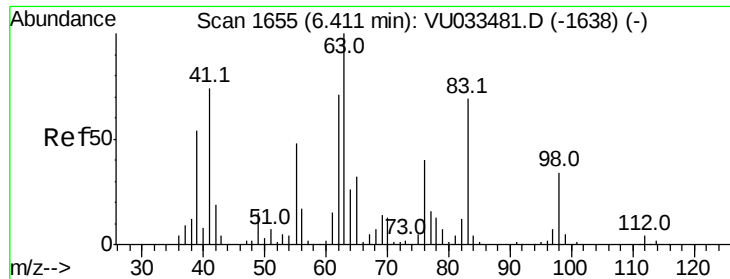


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.148 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

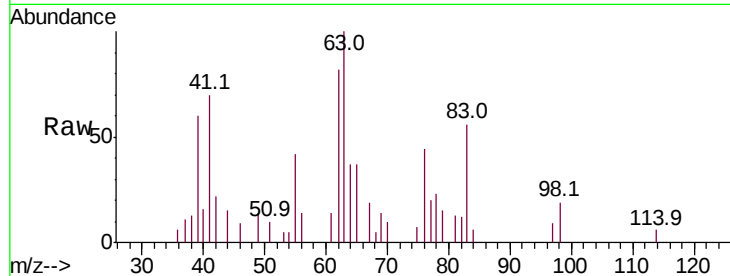
MDL05

Tot Ion: 63 Resp: 5165

Ion Ratio Lower Upper

63 100

112 0.9 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU033486.D (-1652) (-)

Ion 112.00 (111.70 to 112.70): VU033486.D (-1652) (-)

6.41

2500

2000

1500

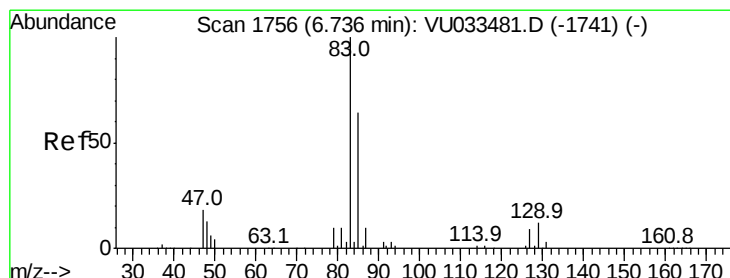
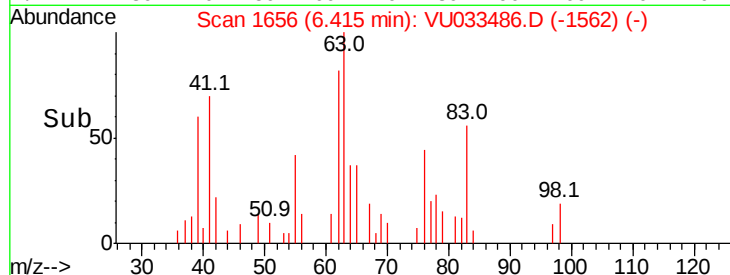
1000

500

0

6.35 6.40 6.45

Time-->



#38

Bromodichloromethane

Concen: 2.124 ug/L

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

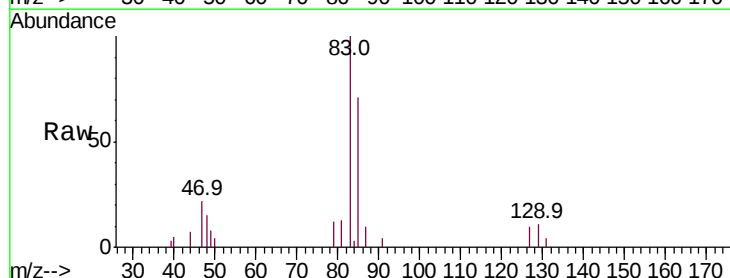
Tgt Ion: 83 Resp: 6724

Ion Ratio Lower Upper

83 100

85 71.1 45.4 84.4

127 9.7 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VU033486.D (-1663) (-)

Ion 85.00 (84.70 to 85.70): VU033486.D (-1663) (-)

Ion 127.00 (126.70 to 127.70): VU033486.D (-1663) (-)

6.74

4000

3000

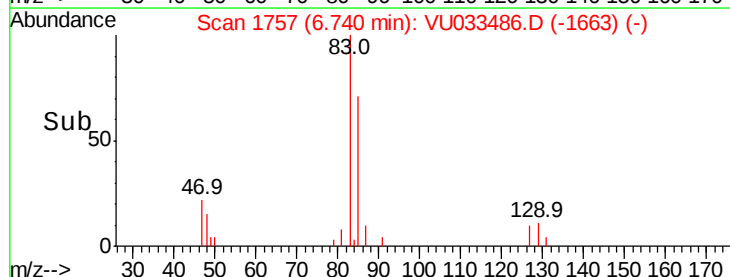
2000

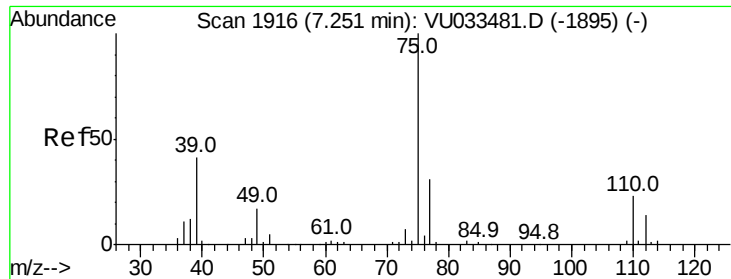
1000

0

6.70 6.75 6.80

Time-->

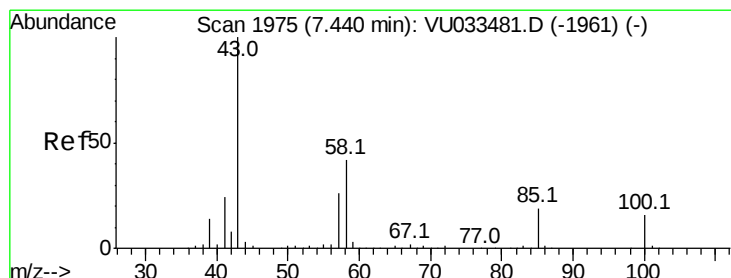
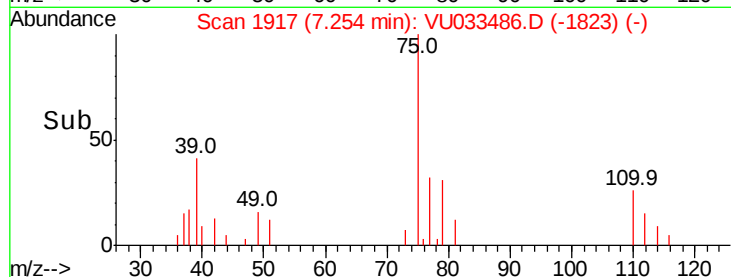
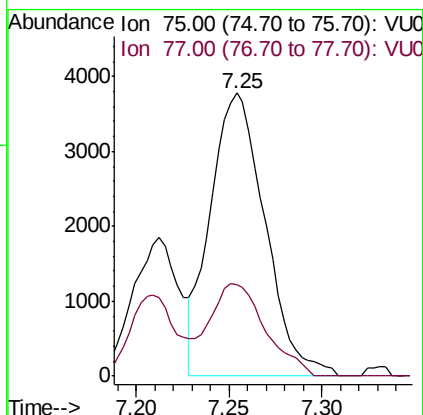
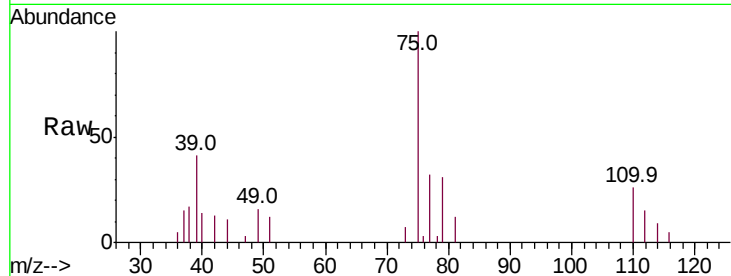




#39
 cis-1,3-Dichloropropene
 Concen: 2.162 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

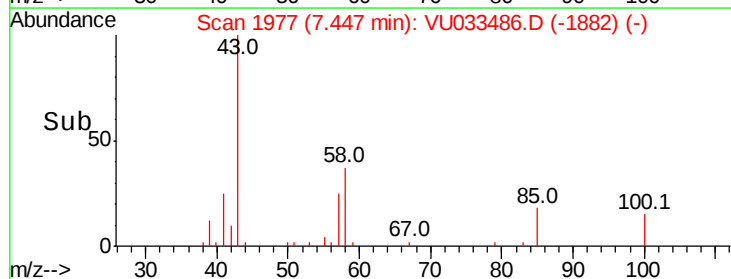
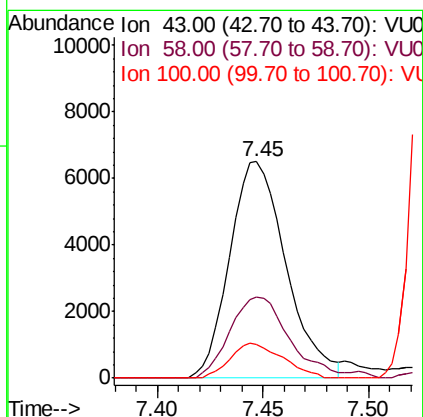
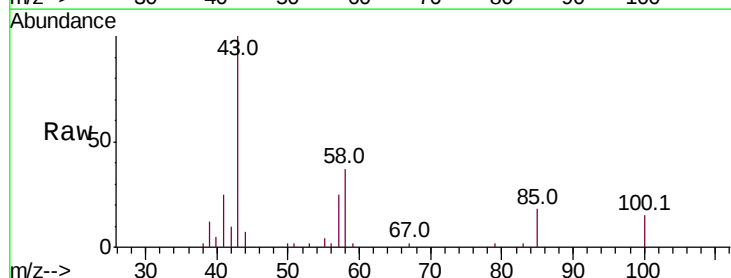
Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

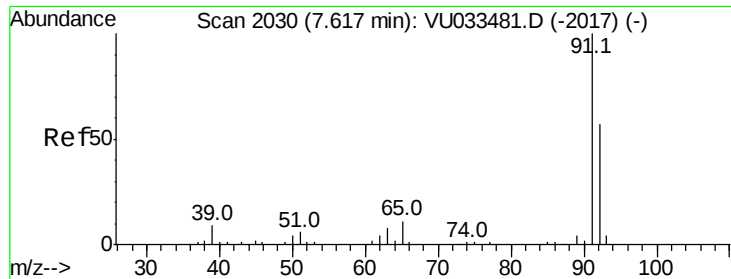
Tot Ion: 75 Resp: 7754
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 3.821 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

Tgt Ion: 43 Resp: 12111
 Ion Ratio Lower Upper
 43 100
 58 39.3 33.4 50.2
 100 14.9 12.3 18.5





#42

Toluene

Concen: 2.227 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

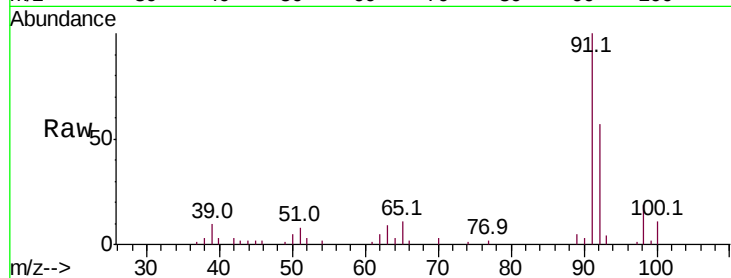
MDL05

Tot Ion: 91 Resp: 21427

Ion Ratio Lower Upper

91 100

92 56.8 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VU033486.D (-2017) (-)

Ion 92.00 (91.70 to 92.70): VU033486.D (-2017) (-)

7.62

12000

10000

8000

6000

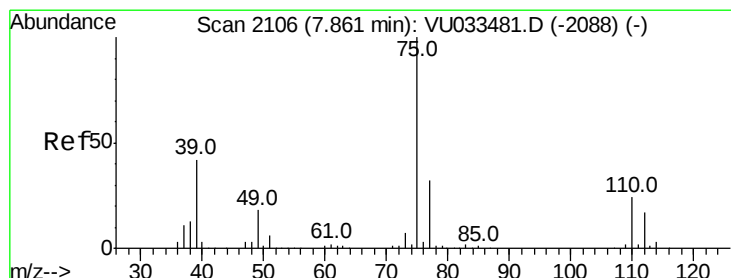
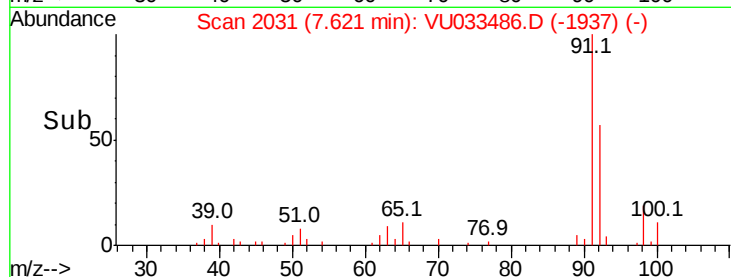
4000

2000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.033 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033486.D

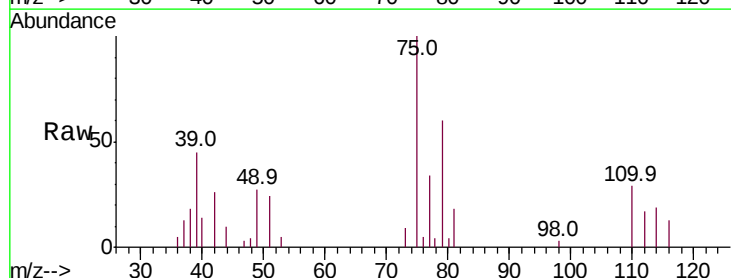
Acq: 30 Jul 2019 11:48

Tgt Ion: 75 Resp: 6618

Ion Ratio Lower Upper

75 100

77 33.6 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033486.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033486.D (-2088) (-)

7.86

3000

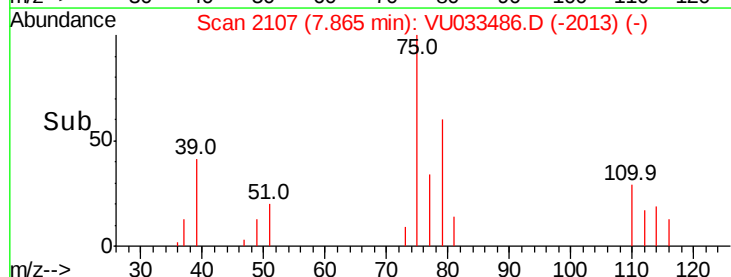
2000

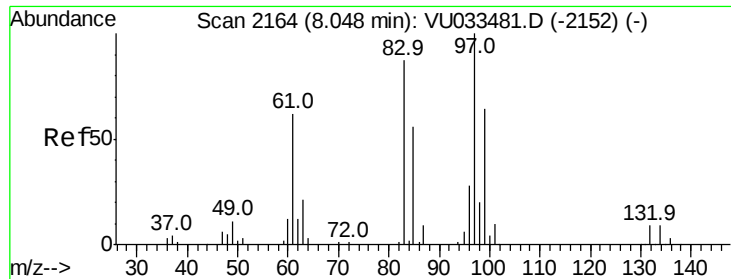
1000

0

7.85 7.90

Time-->

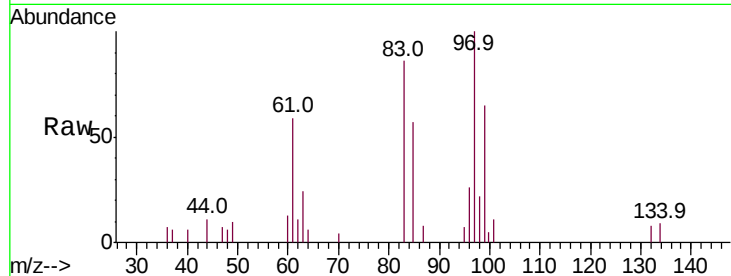




#45
1,1,2-Trichloroethane
Concen: 2.194 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion:	97	Resp:	5033
Ion	Ratio	Lower	Upper
97	100		
99	65.1	43.3	80.5
83	85.8	61.3	113.9
85	57.2	41.0	76.2



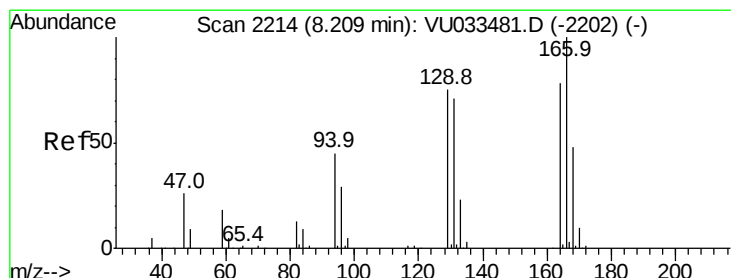
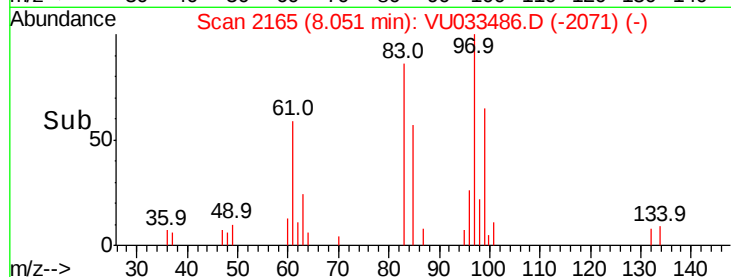
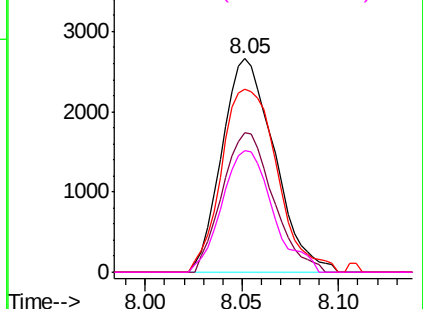
Abundance

Ion 97.00 (96.70 to 97.70): VU033486.D (-2152) (-)

Ion 99.00 (98.70 to 99.70): VU033486.D (-2152) (-)

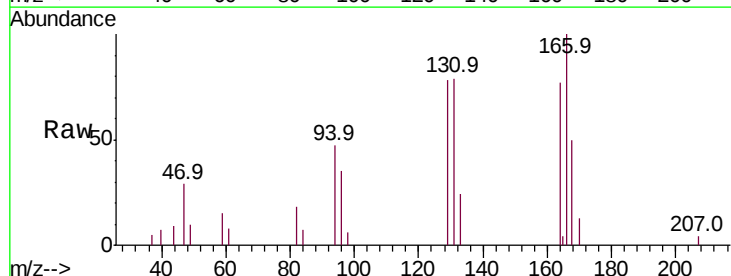
Ion 83.00 (82.70 to 83.70): VU033486.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033486.D (-2152) (-)



#46
Tetrachloroethene
Concen: 2.049 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion:	164	Resp:	3885
Ion	Ratio	Lower	Upper
164	100		
129	102.4	66.6	123.8
131	102.8	63.9	118.7
166	130.6	90.5	168.1



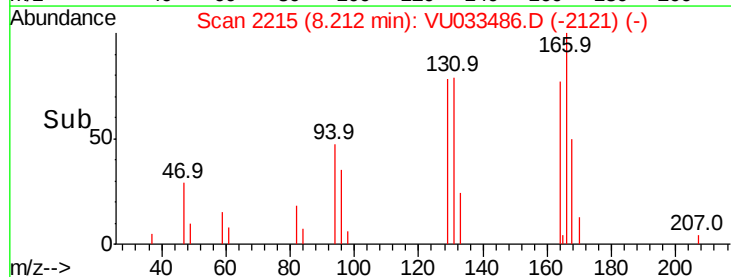
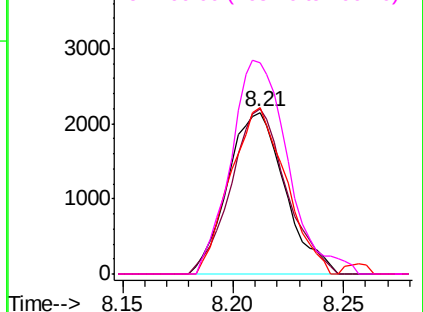
Abundance

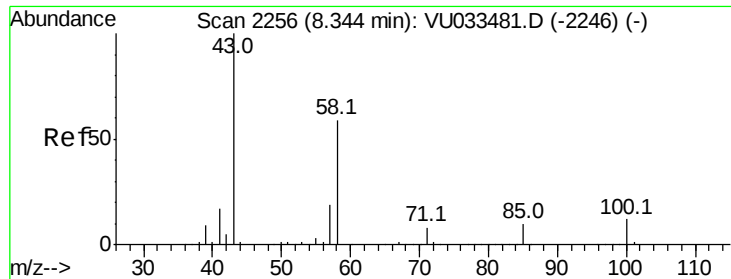
Ion 164.00 (163.70 to 164.70): VU033486.D (-2211) (-)

Ion 129.00 (128.70 to 129.70): VU033486.D (-2211) (-)

Ion 131.00 (130.70 to 131.70): VU033486.D (-2211) (-)

Ion 166.00 (165.70 to 166.70): VU033486.D (-2211) (-)

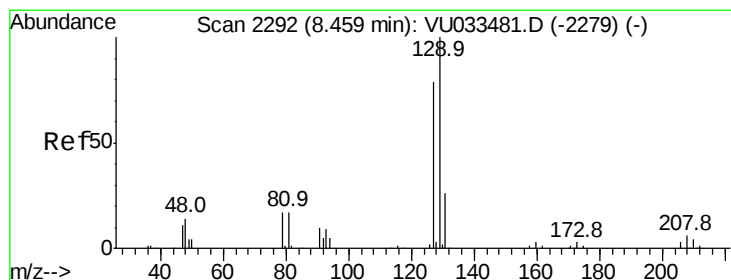
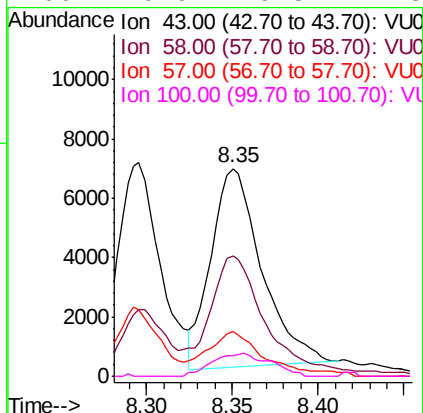
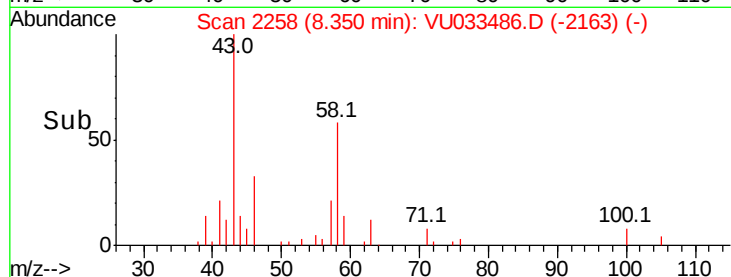
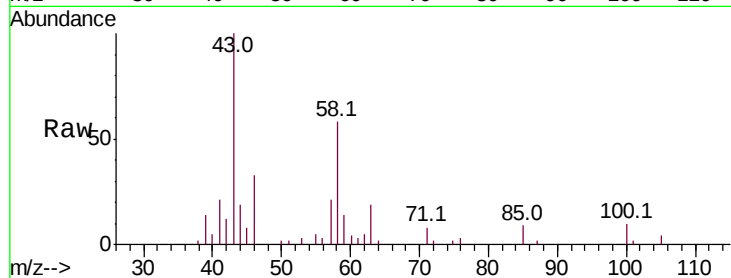




#48
2-Hexanone
Concen: 5.385 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

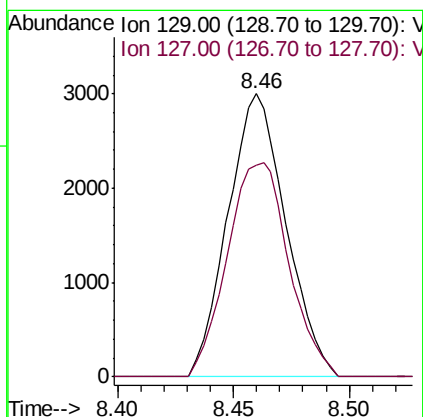
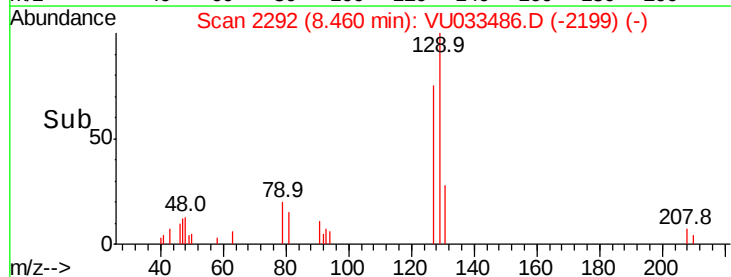
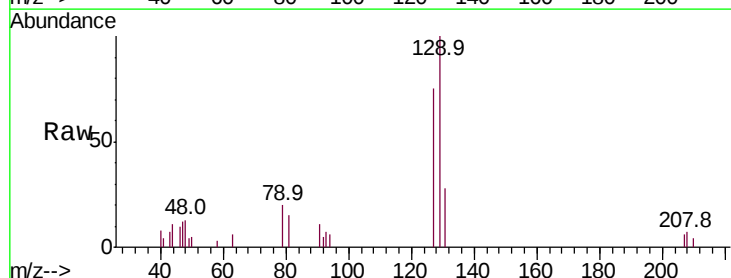
Instrument :
MSVOA_U
ClientSampleId :
MDL05

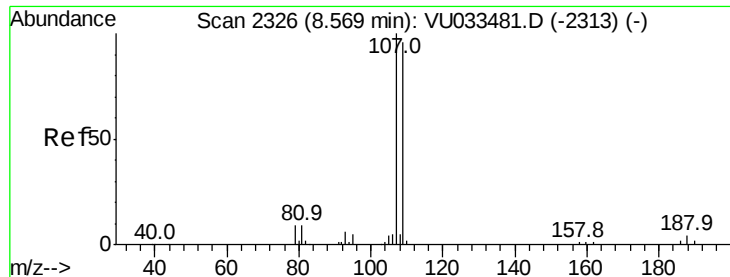
Tot Ion: 43 Resp: 13905
Ion Ratio Lower Upper
43 100
58 60.6 46.6 69.8
57 25.8 16.0 24.0#
100 9.9 9.5 14.3



#49
Dibromochloromethane
Concen: 2.029 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion: 129 Resp: 5212
Ion Ratio Lower Upper
129 100
127 74.9 54.5 101.1





#50

1,2-Dibromoethane

Concen: 2.193 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

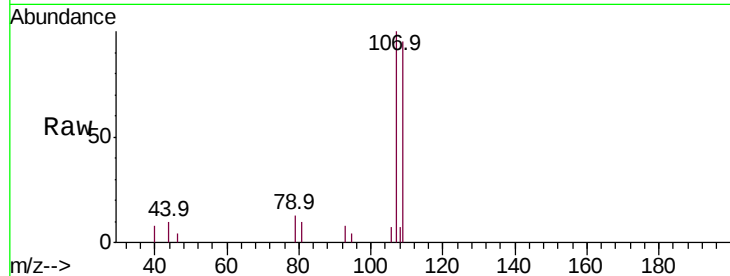
Tot Ion:107 Resp: 5458

Ion Ratio Lower Upper

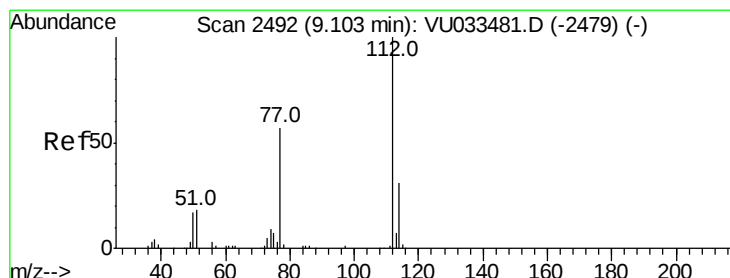
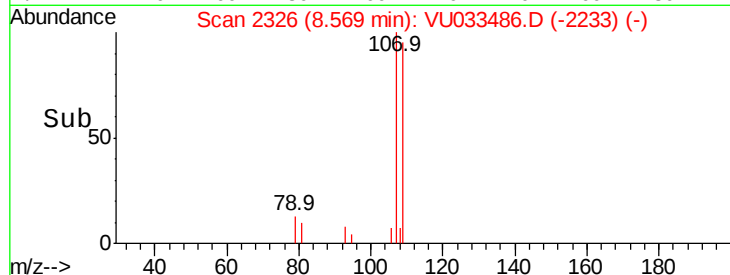
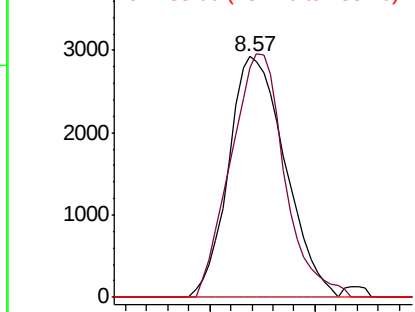
107 100

109 95.1 64.7 120.1

188 0.0 2.8 4.2#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 2.281 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

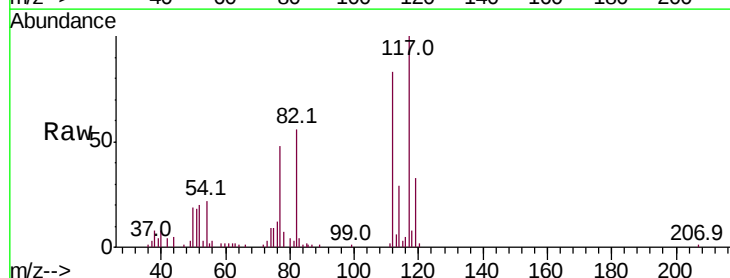
Tgt Ion:112 Resp: 14583

Ion Ratio Lower Upper

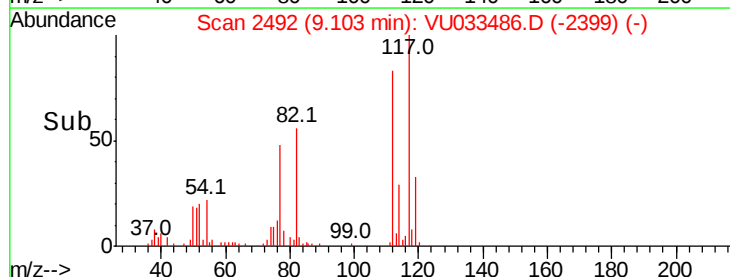
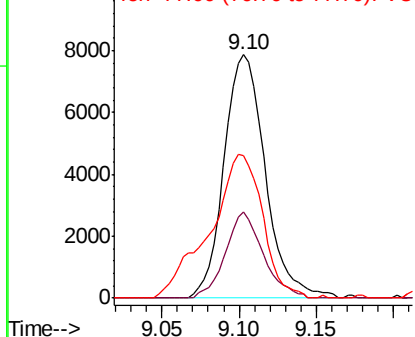
112 100

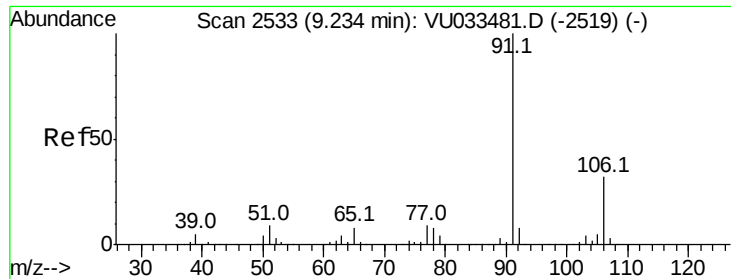
114 35.2 21.9 40.7

77 58.3 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 1.934 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampled :

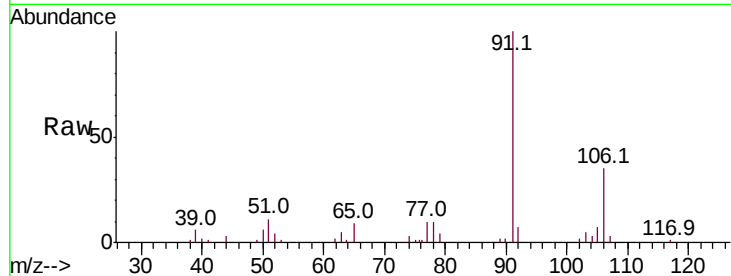
MDL05

Tot Ion: 91 Resp: 20173

Ion Ratio Lower Upper

91 100

106 34.8 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU033486.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033486.D (-2519) (-)

9.23

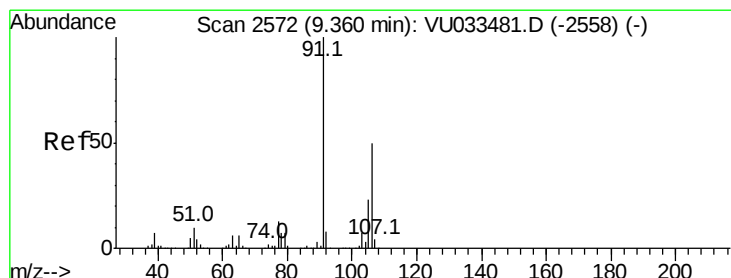
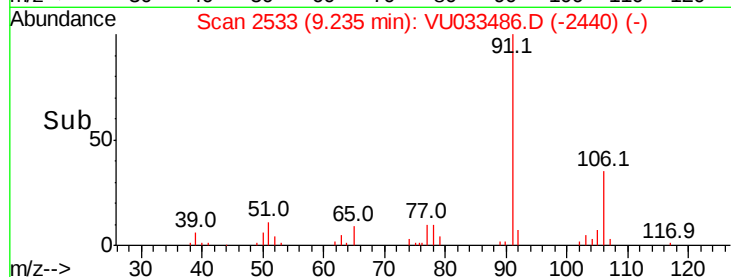
10000

5000

0

Time-->

9.20 9.25 9.30



#53

m,p-Xylene

Concen: 1.962 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033486.D

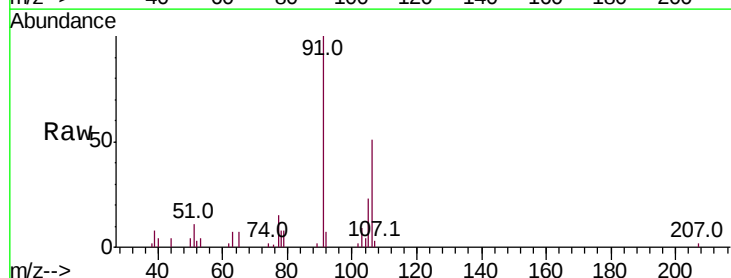
Acq: 30 Jul 2019 11:48

Tgt Ion: 106 Resp: 7698

Ion Ratio Lower Upper

106 100

91 196.9 140.7 261.3



Abundance Ion 106.00 (105.70 to 106.70): VU033486.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033486.D (-2558) (-)

9.36

10000

8000

6000

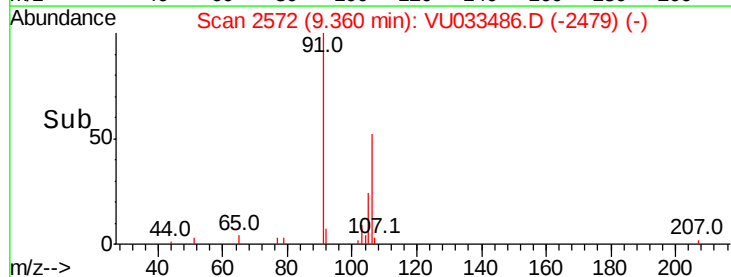
4000

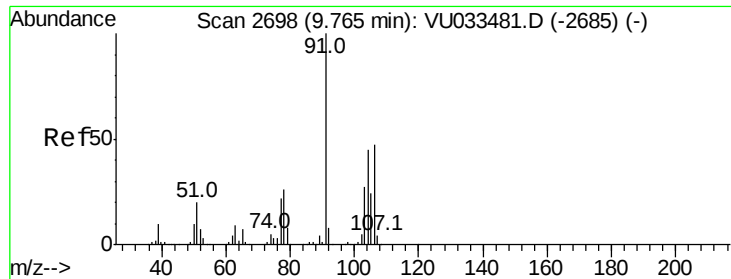
2000

0

Time-->

9.30 9.35 9.40





#54

o-xylene

Concen: 1.822 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

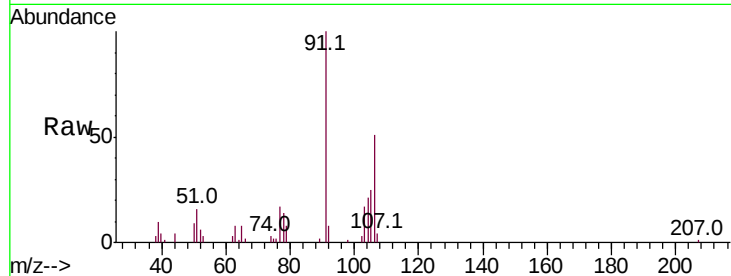
MDL05

Tot Ion:106 Resp: 7007

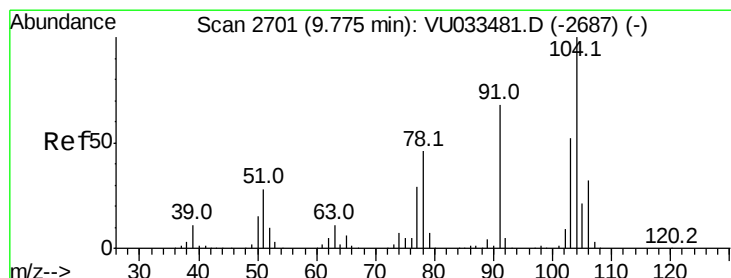
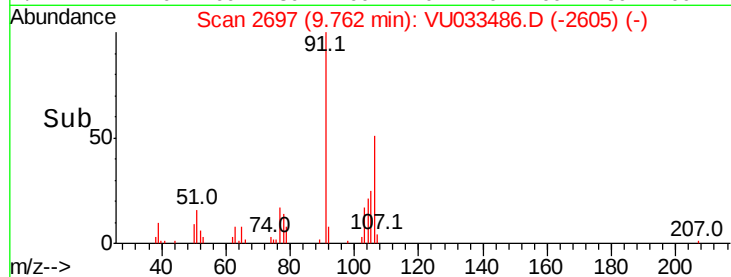
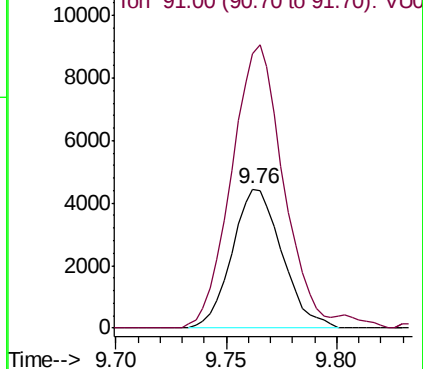
Ion Ratio Lower Upper

106 100

91 197.0 151.1 280.7



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 1.673 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033486.D

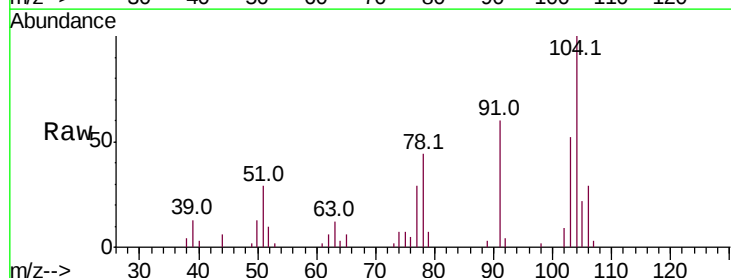
Acq: 30 Jul 2019 11:48

Tgt Ion:104 Resp: 10919

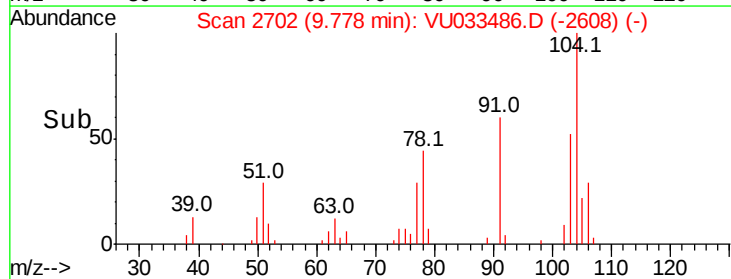
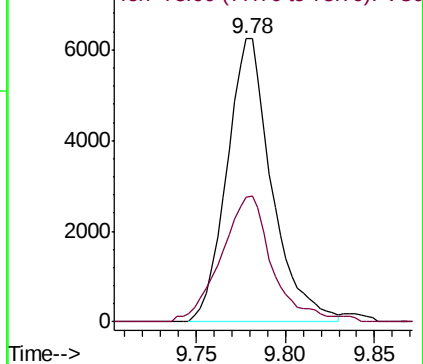
Ion Ratio Lower Upper

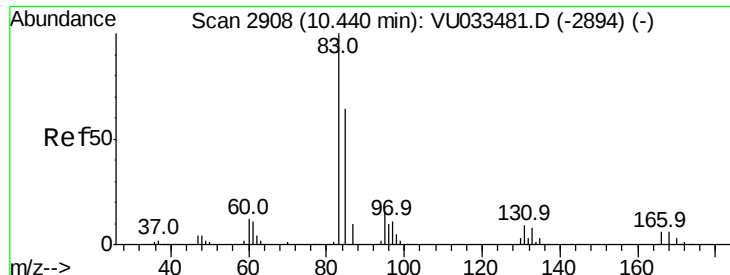
104 100

78 44.2 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V





#57

1,1,2,2-Tetrachloroethane

Concen: 2.280 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

MDL05

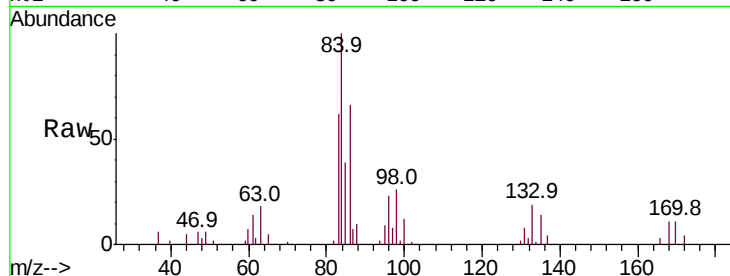
Tot Ion: 83 Resp: 9298

Ion Ratio Lower Upper

83 100

85 62.9 45.9 85.3

131 13.4 7.8 11.8#

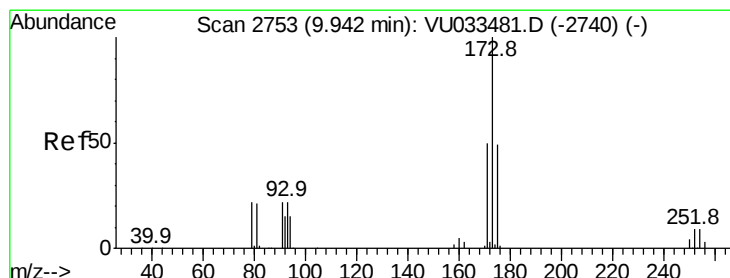
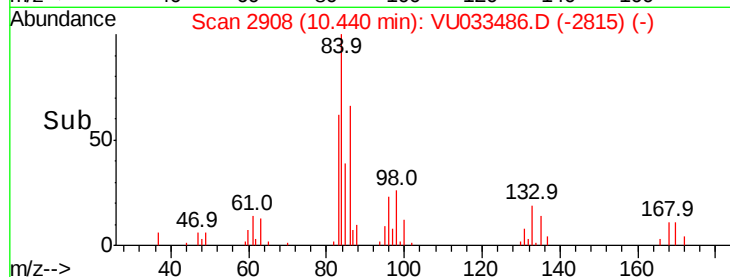


Abundance Ion 83.00 (82.70 to 83.70): VU033486.D (-2894) (-)

Ion 85.00 (84.70 to 85.70): VU033486.D (-2894) (-)

Ion 131.00 (130.70 to 131.70): VU033486.D (-2894) (-)

Time-->



#59

Bromoform

Concen: 2.162 ug/L

RT: 9.95 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

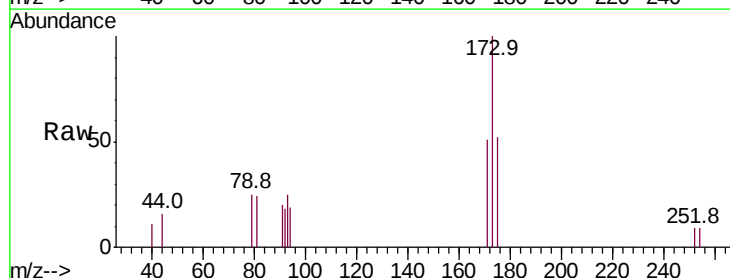
Tgt Ion: 173 Resp: 3789

Ion Ratio Lower Upper

173 100

175 53.7 38.1 57.1

254 4.4 7.3 10.9#

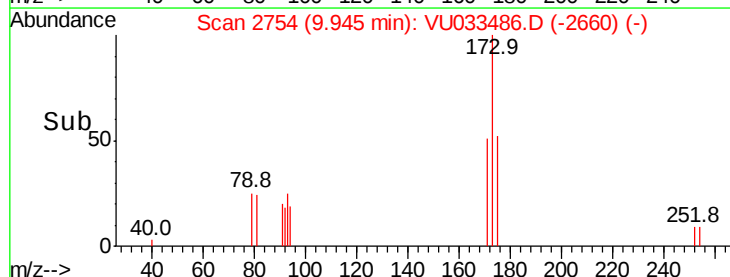


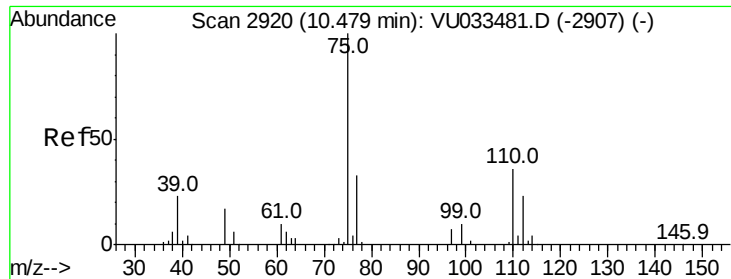
Abundance Ion 173.00 (172.70 to 173.70): VU033486.D (-2660) (-)

Ion 175.00 (174.70 to 175.70): VU033486.D (-2660) (-)

Ion 254.00 (253.70 to 254.70): VU033486.D (-2660) (-)

Time-->

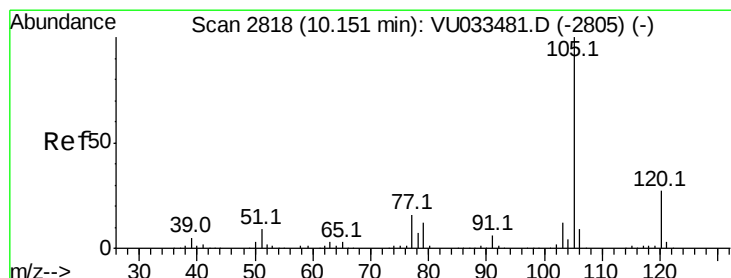
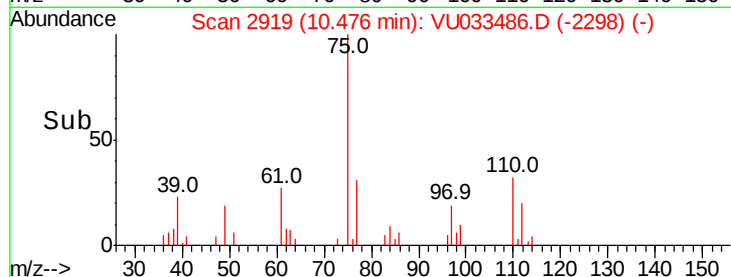
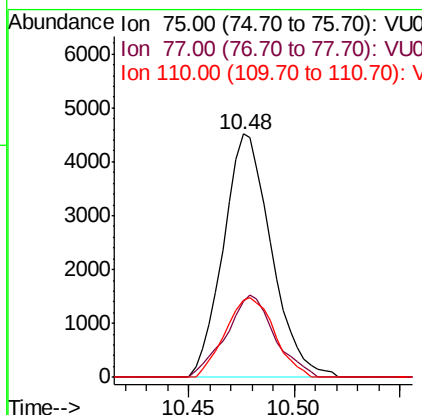
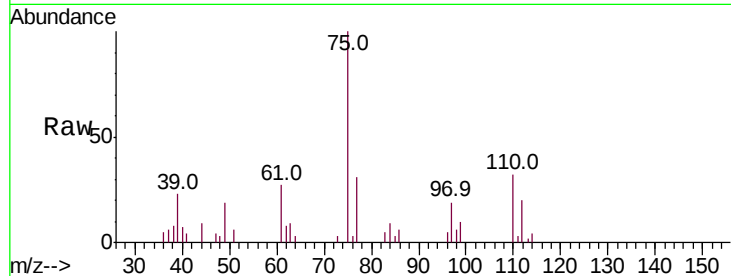




#60
 1,2,3-Trichloropropane
 Concen: 2.496 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

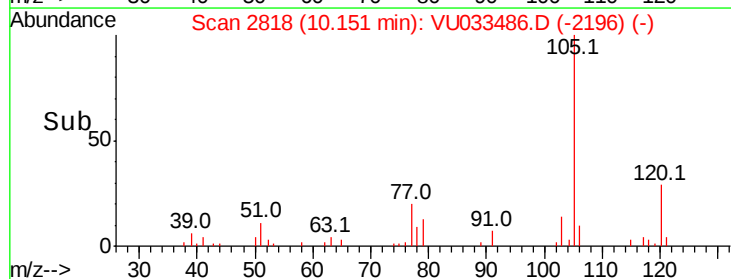
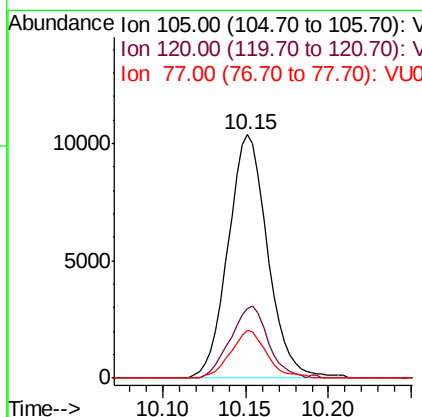
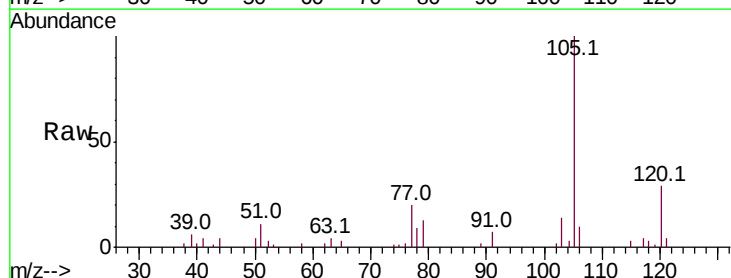
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

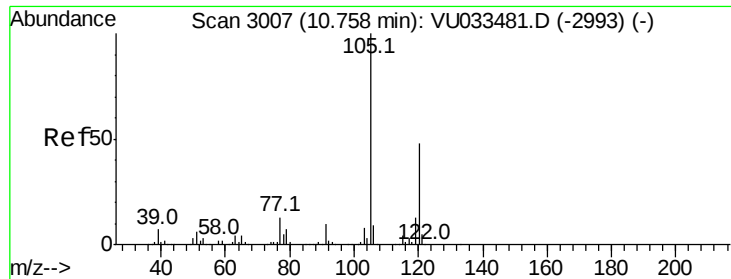
Tot Ion: 75 Resp: 7124
 Ion Ratio Lower Upper
 75 100
 77 34.1 25.9 38.9
 110 33.5 30.2 45.4



#61
 Isopropylbenzene
 Concen: 1.918 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. 0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

Tgt Ion: 105 Resp: 17207
 Ion Ratio Lower Upper
 105 100
 120 28.0 21.7 32.5
 77 18.1 12.6 19.0





#62

1,3,5-Trimethylbenzene

Concen: 1.834 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033486.D

Acq: 30 Jul 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

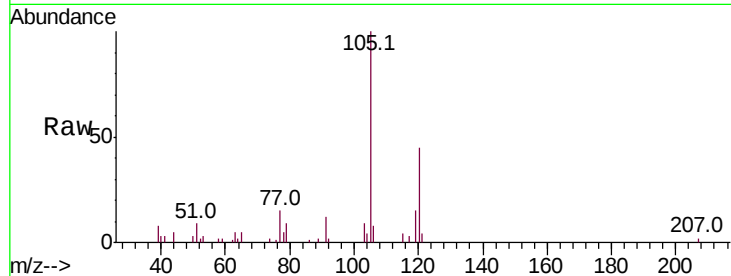
MDL05

Tot Ion:105 Resp: 13337

Ion Ratio Lower Upper

105 100

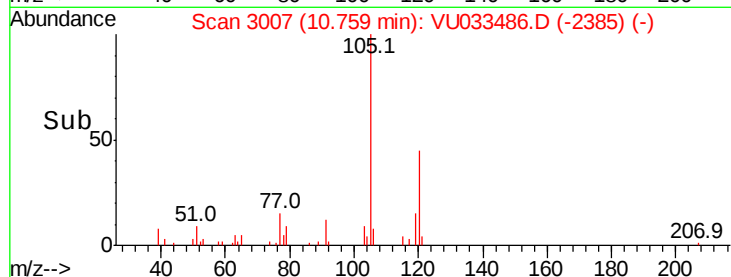
120 47.2 39.0 58.6



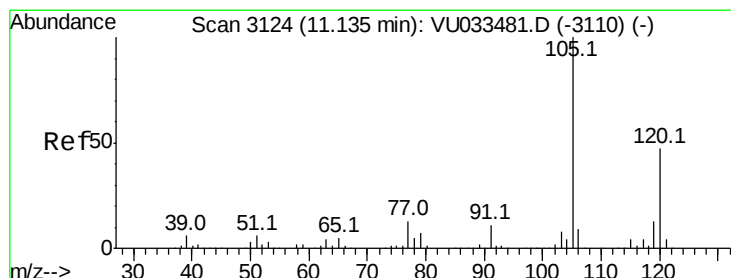
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.76



Time-->



#63

1,2,4-Trimethylbenzene

Concen: 1.764 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033486.D

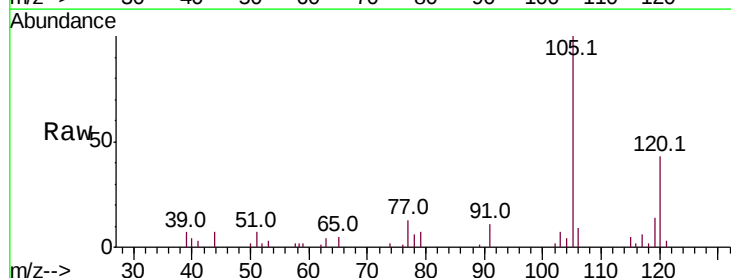
Acq: 30 Jul 2019 11:48

Tgt Ion:105 Resp: 12716

Ion Ratio Lower Upper

105 100

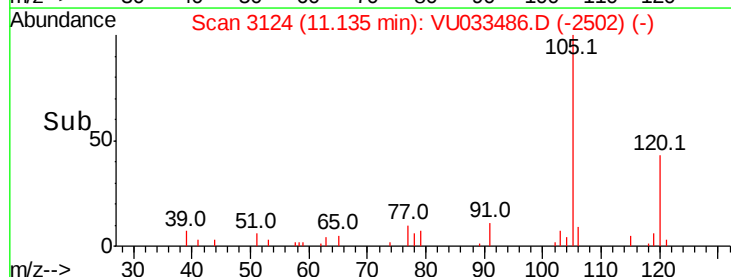
120 45.3 36.6 55.0



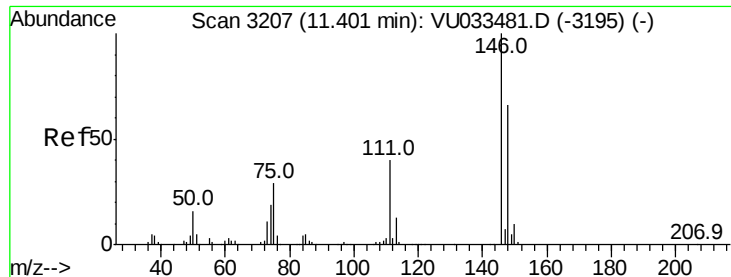
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13



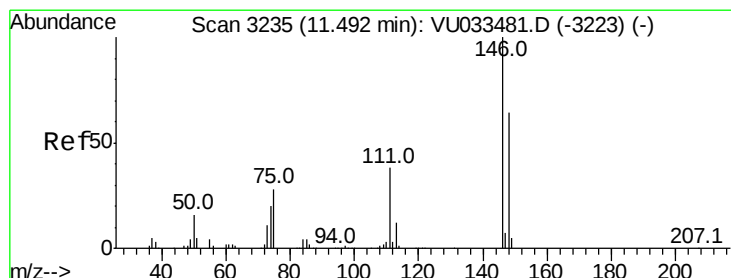
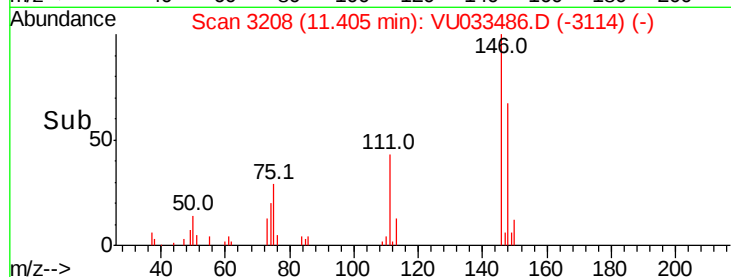
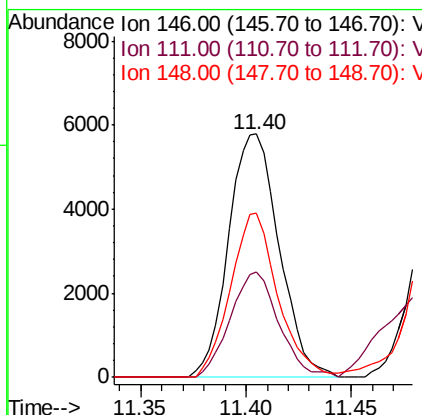
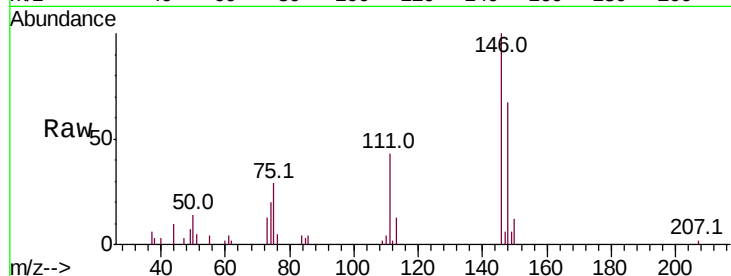
Time-->



#64
 1,3-Dichlorobenzene
 Concen: 2.107 ug/L
 RT: 11.40 min Scan# 3208
 Delta R.T. 0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

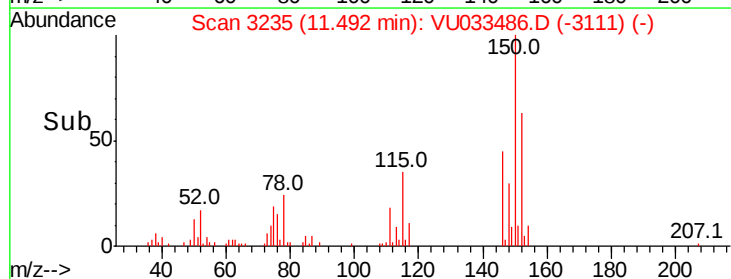
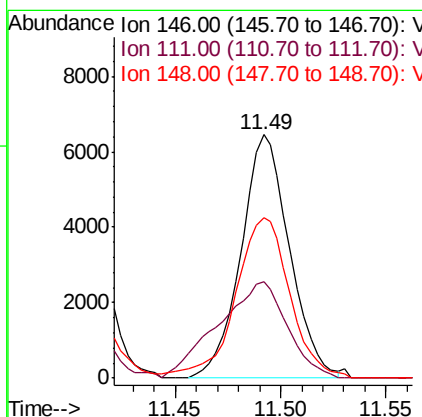
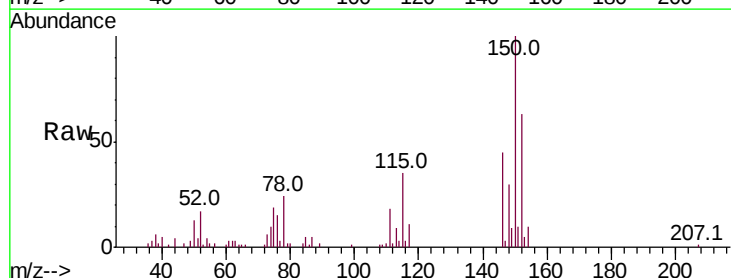
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

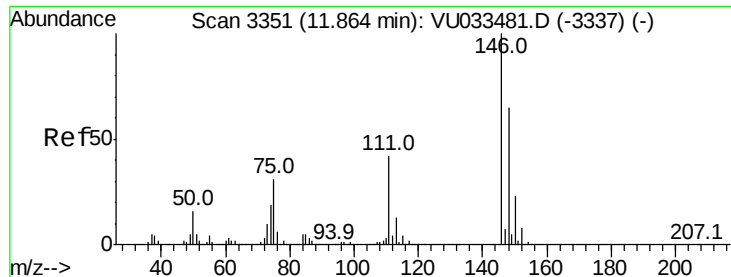
Tot Ion:146 Resp: 9635
 Ion Ratio Lower Upper
 146 100
 111 43.5 28.2 52.4
 148 67.3 44.4 82.5



#65
 1,4-Dichlorobenzene
 Concen: 2.185 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

Tgt Ion:146 Resp: 10322
 Ion Ratio Lower Upper
 146 100
 111 39.8 27.0 50.2
 148 65.9 44.7 82.9

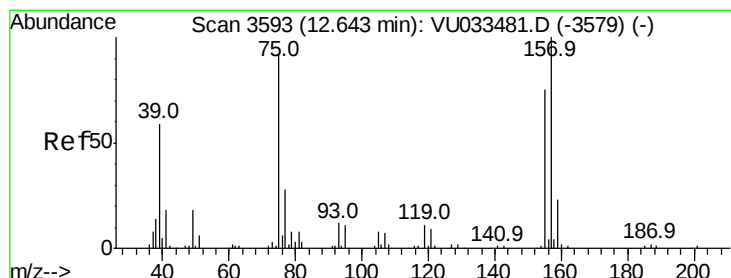
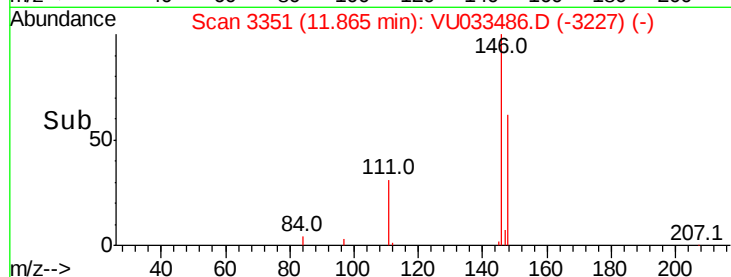
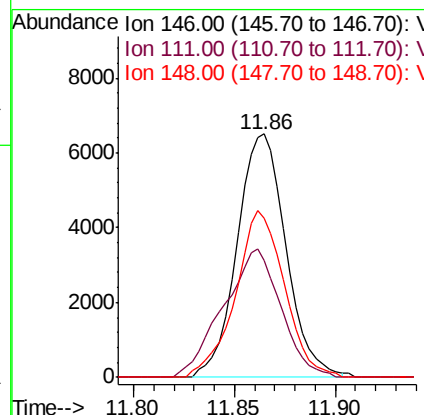
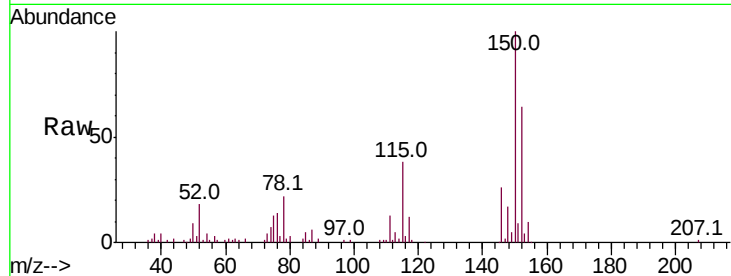




#67
 1,2-Dichlorobenzene
 Concen: 2.411 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

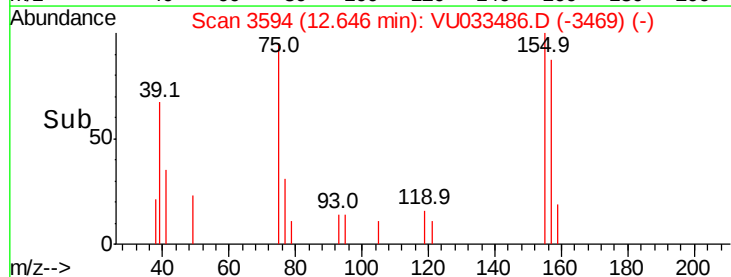
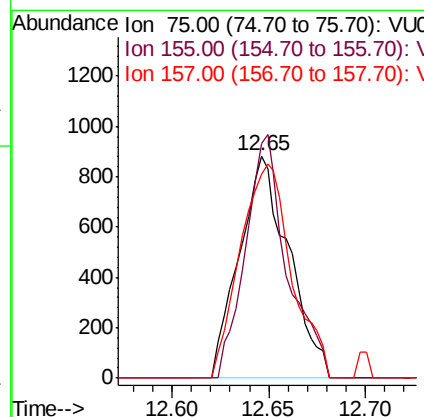
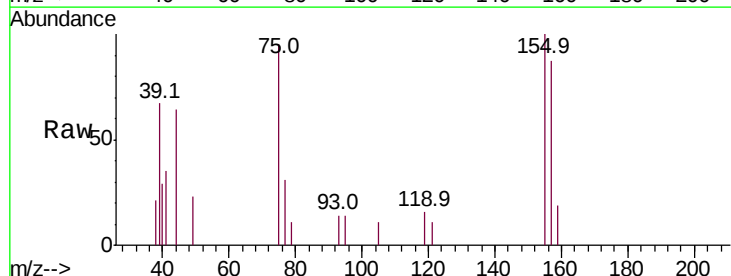
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL05

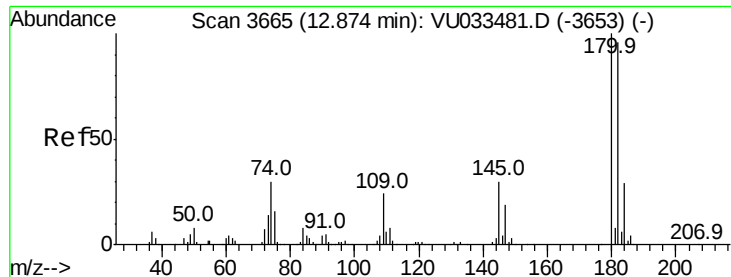
Tot Ion:146 Resp: 11048
 Ion Ratio Lower Upper
 146 100
 111 48.2 32.8 49.2
 148 65.5 49.2 73.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.969 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

Tgt Ion: 75 Resp: 1562
 Ion Ratio Lower Upper
 75 100
 155 105.4 64.8 97.2#
 157 91.6 87.1 130.7

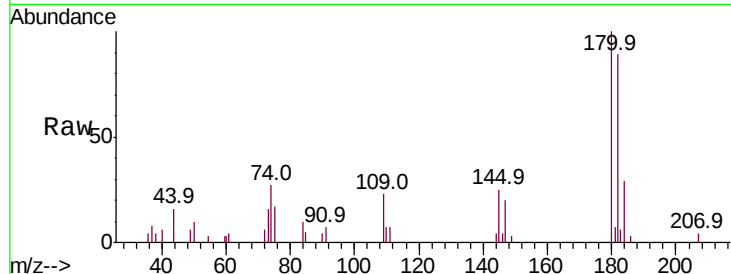




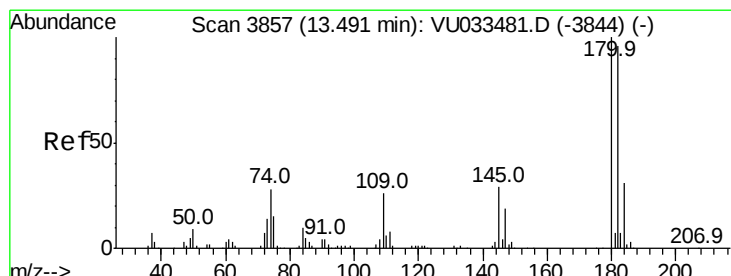
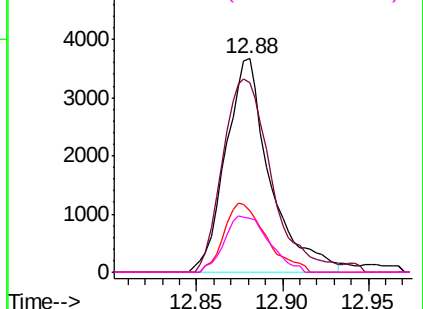
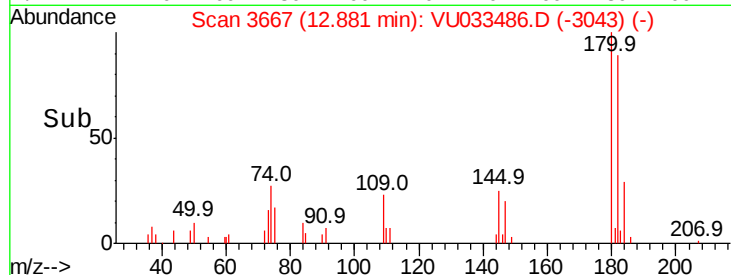
#69
 1,3,5-Trichlorobenzene
 Concen: 1.894 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. 0.01 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:180 Resp: 6578
 Ion Ratio Lower Upper
 180 100
 182 99.7 76.2 114.4
 184 30.7 24.1 36.1
 145 26.3 23.7 35.5

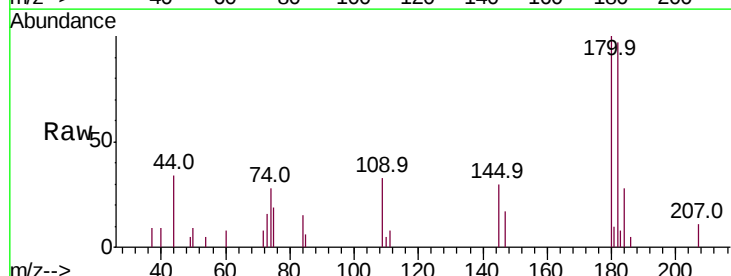


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

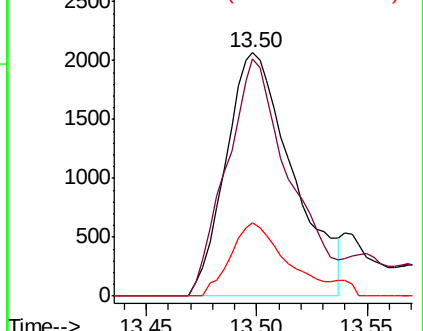
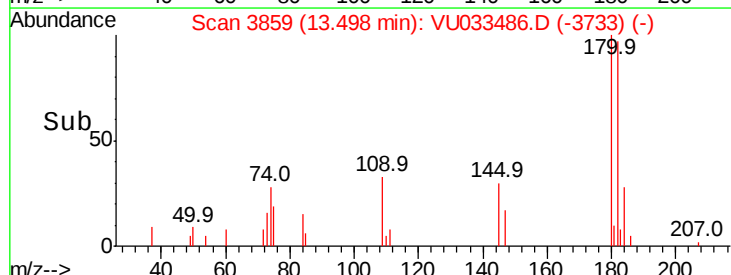


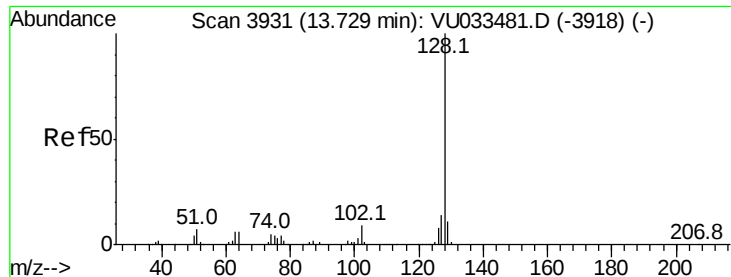
#70
 1,2,4-trichlorobenzene
 Concen: 1.490 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033486.D
 Acq: 30 Jul 2019 11:48

Tgt Ion:180 Resp: 4318
 Ion Ratio Lower Upper
 180 100
 182 92.7 77.5 116.3
 145 24.8 23.9 35.9



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

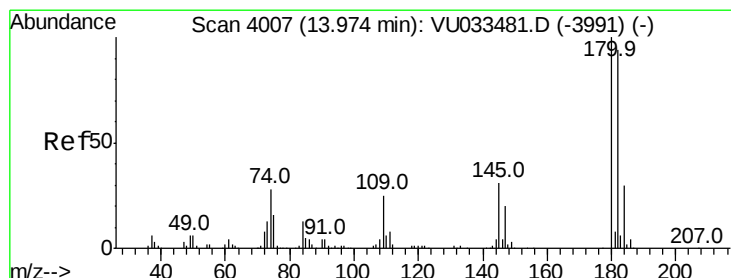
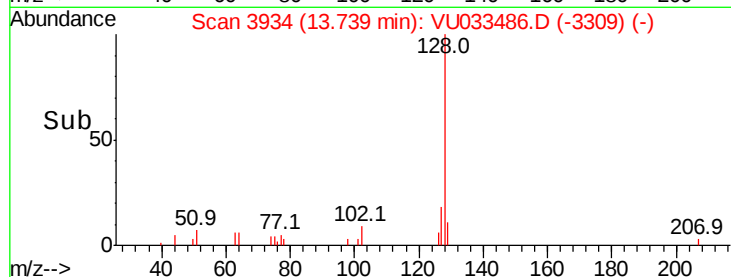
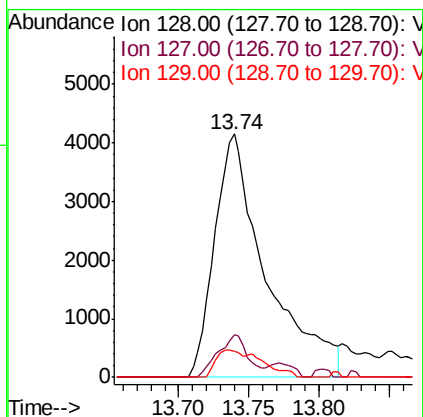
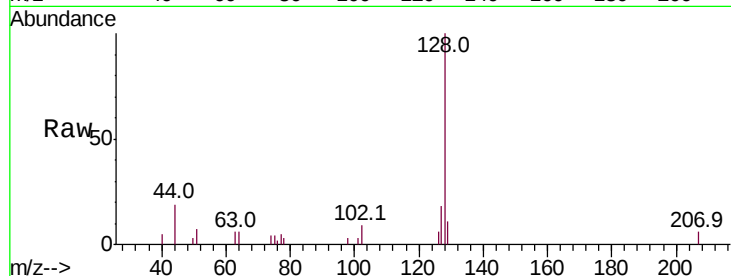




#71
Naphthalene
Concen: 1.259 ug/L
RT: 13.74 min Scan# 3934
Delta R.T. 0.01 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion:128 Resp: 10550
Ion Ratio Lower Upper
128 100
127 10.0 10.8 16.2#
129 5.5 8.7 13.1#



#72
1,2,3-Trichlorobenzene
Concen: 1.552 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033486.D
Acq: 30 Jul 2019 11:48

Tgt Ion:180 Resp: 4713
Ion Ratio Lower Upper
180 100
182 93.3 76.4 114.6
145 28.5 24.9 37.3

