

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
 Data File : VU033593.D
 Acq On : 05 Aug 2019 11:42
 Operator : JC/SP
 Sample : VSTD05034
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 05 16:55:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 16:26:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	338497	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	334746	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	180812	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	106727	45.35	ug/L	0.00
7) Chloroethane-d5	1.67	69	93836	38.22	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	204068	45.57	ug/L	0.00
21) 2-Butanone-d5	4.15	46	174421	94.62	ug/L	0.00
24) Chloroform-d	4.62	84	201245	45.92	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	125056	45.25	ug/L	0.00
32) Benzene-d6	5.32	84	399001	45.99	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	128911	46.06	ug/L	0.00
41) Toluene-d8	7.55	98	376252	46.69	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	63120	46.28	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	129856	96.61	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	194315	45.12	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	154038	44.29	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	145931	45.089 ug/L	100
3) Chloromethane	1.32	50	157018	46.726 ug/L	100
5) Vinyl chloride	1.39	62	167788	47.133 ug/L	100
6) Bromomethane	1.62	94	144460	57.217 ug/L	100
8) Chloroethane	1.69	64	103974	39.222 ug/L	100
9) Trichlorofluoromethane	1.87	101	226549	47.107 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	113334	46.711 ug/L	100
12) 1,1-Dichloroethene	2.27	96	111116	47.667 ug/L	100
13) Acetone	2.31	43	161417	89.325 ug/L	100
14) Carbon disulfide	2.46	76	337474	48.629 ug/L	100
15) Methyl Acetate	2.60	43	144186	47.874 ug/L	100
16) Methylene chloride	2.68	84	128406	47.554 ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	116126	47.817 ug/L	100
18) Methyl tert-butyl Ether	2.98	73	366516	48.087 ug/L	100
19) 1,1-Dichloroethane	3.42	63	220695	47.379 ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	131015	47.637 ug/L	100
22) 2-Butanone	4.24	43	220313	99.239 ug/L	100
23) Bromochloromethane	4.52	128	67823	48.241 ug/L	100
25) Chloroform	4.65	83	229543	46.926 ug/L	100
27) 1,2-Dichloroethane	5.38	62	178744	47.490 ug/L	100
29) Cyclohexane	4.97	56	193940	50.036 ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	190872	46.595 ug/L	100
31) Carbon tetrachloride	5.11	117	169382	47.486 ug/L	100
33) Benzene	5.37	78	501789	49.041 ug/L	100
34) Trichloroethene	6.16	95	127213	47.222 ug/L	100
35) Methylcyclohexane	6.40	83	205616	50.272 ug/L	100
37) 1,2-Dichloropropane	6.41	63	133103	47.537 ug/L	100
38) Bromodichloromethane	6.74	83	170140	46.897 ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	208598	48.694 ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	390982	96.615 ug/L	100

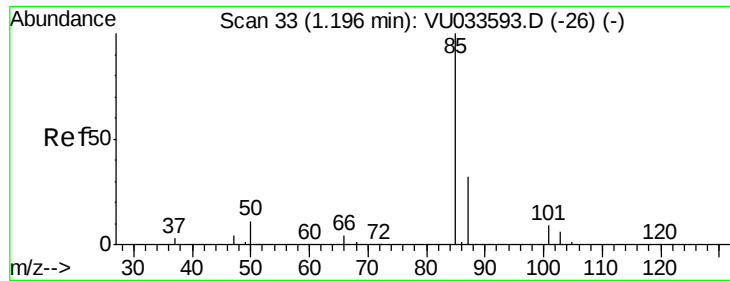
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
 Data File : VU033593.D
 Acq On : 05 Aug 2019 11:42
 Operator : JC/SP
 Sample : VSTD05034
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 05 16:55:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 16:26:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	544645	49.189	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	186859	47.764	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	125631	46.917	ug/L	100
46) Tetrachloroethene	8.21	164	104824	48.300	ug/L	100
48) 2-Hexanone	8.34	43	314225	96.400	ug/L	100
49) Dibromochloromethane	8.46	129	141336	46.791	ug/L	100
50) 1,2-Dibromoethane	8.57	107	137180	47.249	ug/L	100
51) Chlorobenzene	9.10	112	342242	47.266	ug/L	100
52) Ethylbenzene	9.23	91	582418	49.382	ug/L	100
53) m,p-Xylene	9.36	106	224659	50.008	ug/L	100
54) o-xylene	9.76	106	220773	49.854	ug/L	100
55) Styrene	9.77	104	375068	49.949	ug/L	100
56) Isopropylbenzene	10.15	105	570423	49.738	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	225954	47.140	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	175953	46.551	ug/L	100
61) Bromoform	9.94	173	110882	46.623	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	278606	46.592	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	282105	46.066	ug/L	100
65) 1,2-Dichlorobenzene	11.86	146	280139	46.817	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	53576	46.695	ug/L	100
67) 1,3,5-Trichlorobenzene	12.87	180	218209	47.261	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	190421	49.047	ug/L	100
69) Naphthalene	13.73	128	576793	51.145	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	199892	48.167	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 45.089 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

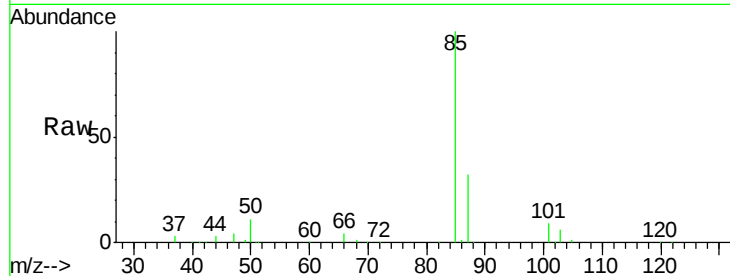
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 145931

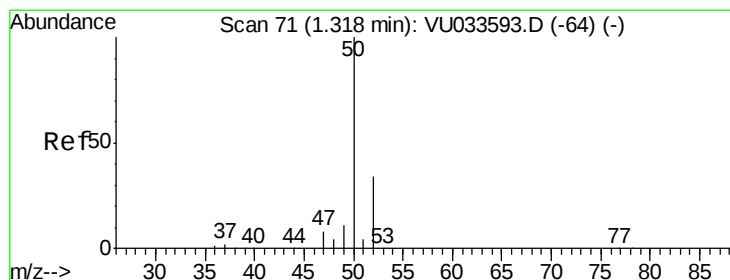
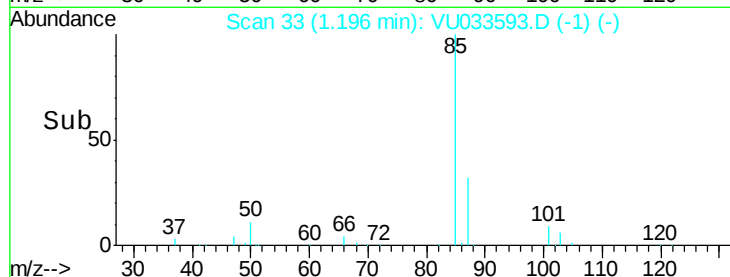
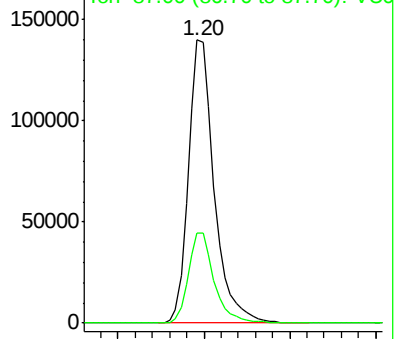
Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033593.D (-26) (-)



#3

Chloromethane

Concen: 46.726 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033593.D

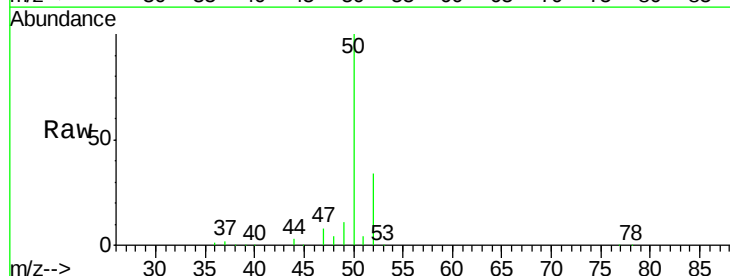
Acq: 05 Aug 2019 11:42

Tgt Ion: 50 Resp: 157018

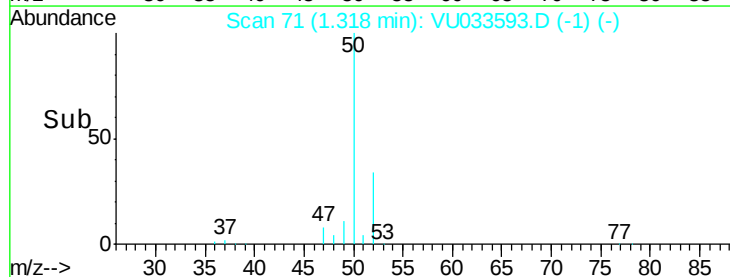
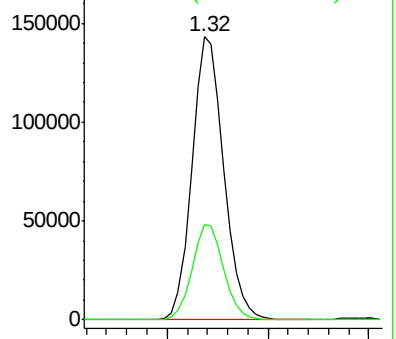
Ion Ratio Lower Upper

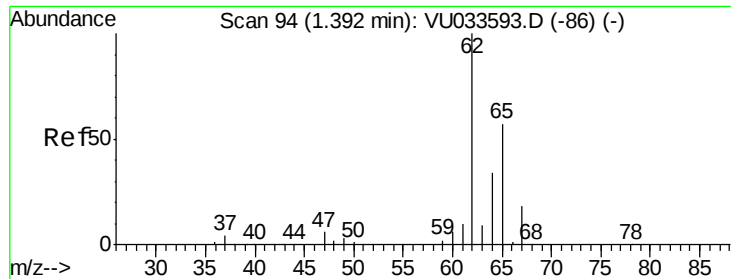
50 100

52 33.7 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU033593.D (-64) (-)





#5

Vinyl chloride

Concen: 47.133 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

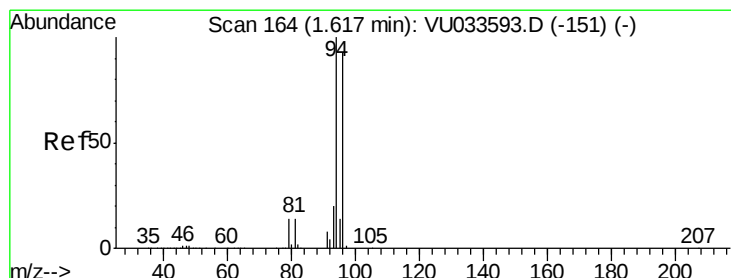
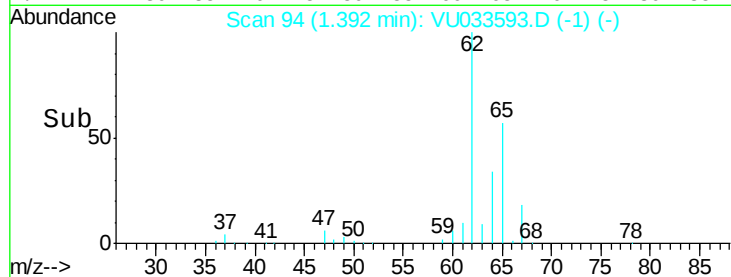
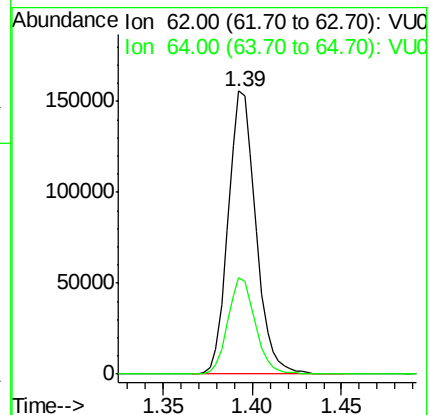
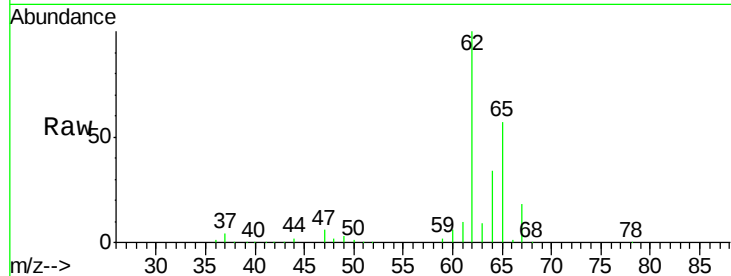
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 167788

Ion Ratio Lower Upper

62 100

64 34.0 23.8 44.2



#6

Bromomethane

Concen: 57.217 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033593.D

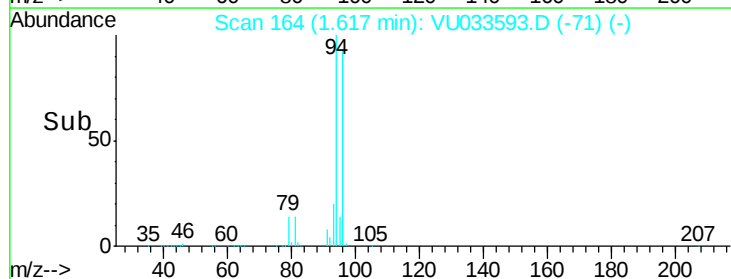
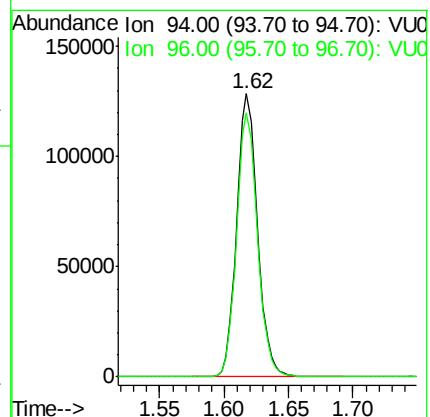
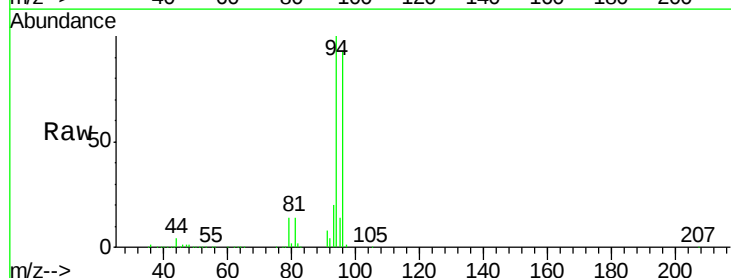
Acq: 05 Aug 2019 11:42

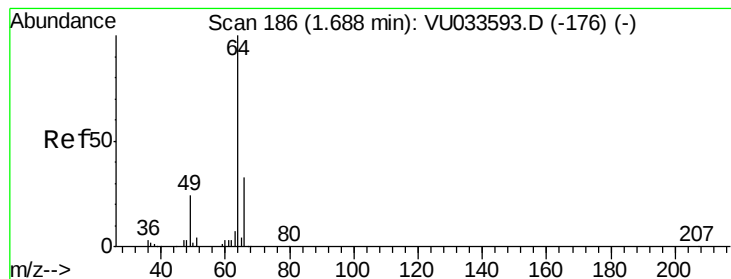
Tgt Ion: 94 Resp: 144460

Ion Ratio Lower Upper

94 100

96 93.3 65.3 121.3





#8

Chloroethane

Concen: 39.222 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

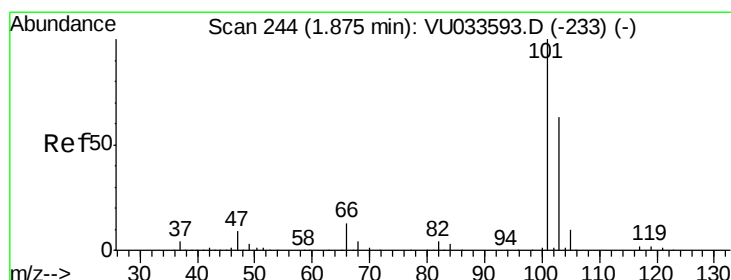
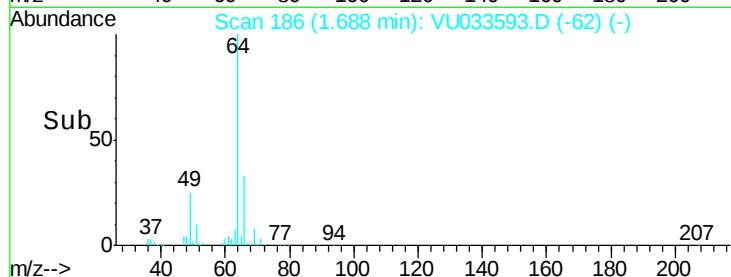
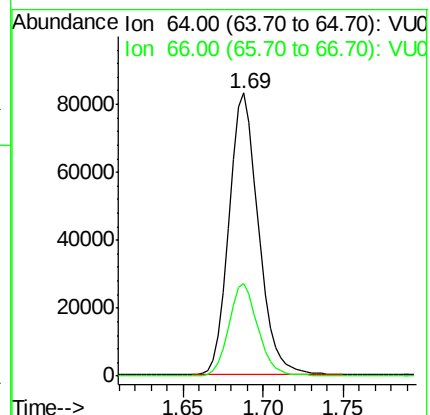
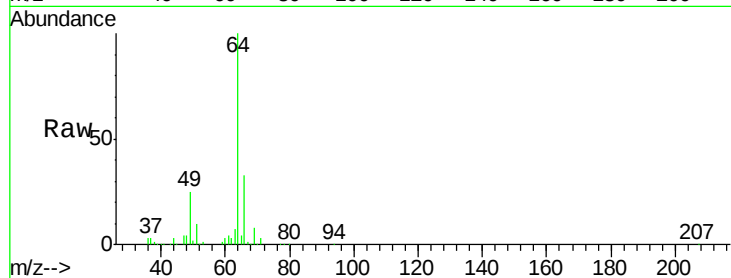
ClientSampleId :

Tot Ion: 64 Resp: 103974

Ion Ratio Lower Upper

64 100

66 32.7 22.9 42.5



#9

Trichlorofluoromethane

Concen: 47.107 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033593.D

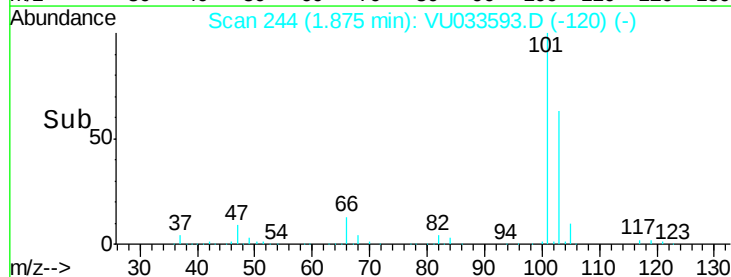
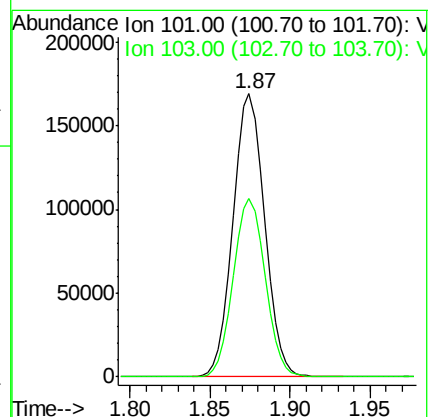
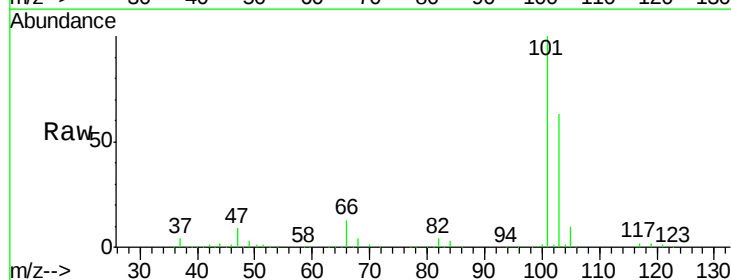
Acq: 05 Aug 2019 11:42

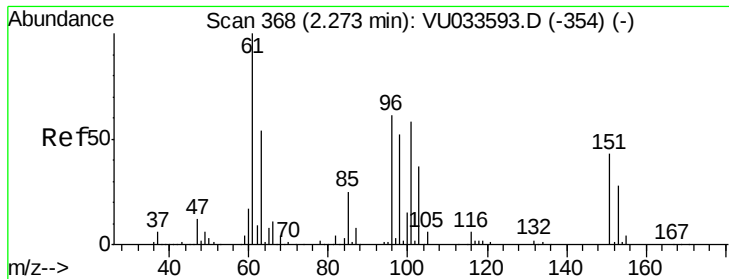
Tgt Ion:101 Resp: 226549

Ion Ratio Lower Upper

101 100

103 63.7 51.0 76.4





#10

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

Concen: 46.711 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

ClientSampled :

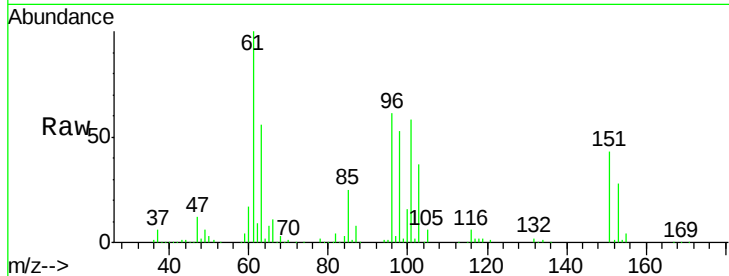
Tot Ion:101 Resp: 113334

Ion Ratio Lower Upper

101 100

85 42.9 34.3 51.5

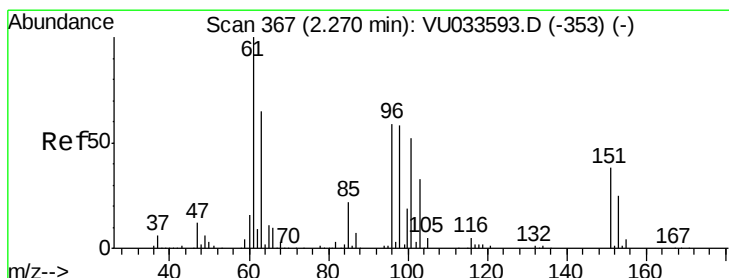
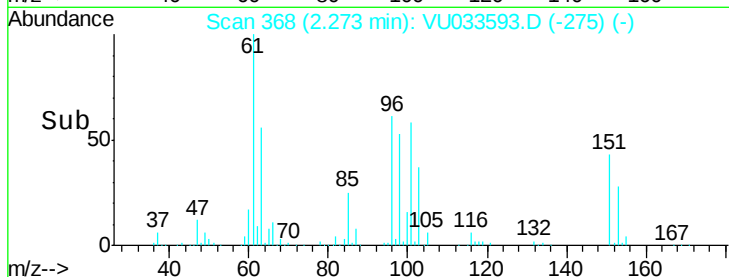
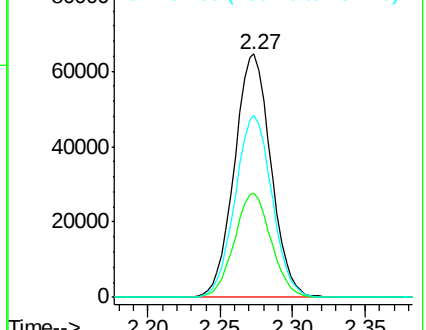
151 75.3 60.2 90.4



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: 47.667 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

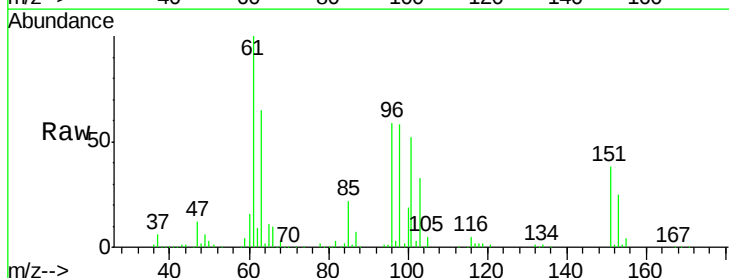
Tgt Ion: 96 Resp: 111116

Ion Ratio Lower Upper

96 100

61 170.2 119.1 221.3

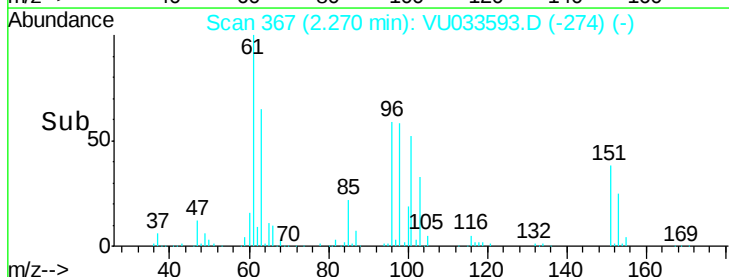
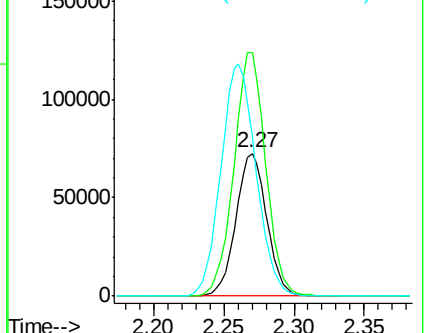
63 111.3 77.9 144.7

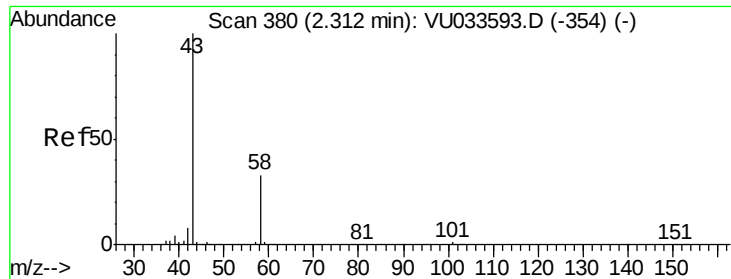


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 89.325 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

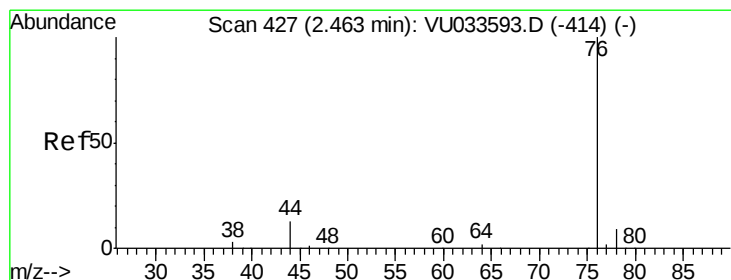
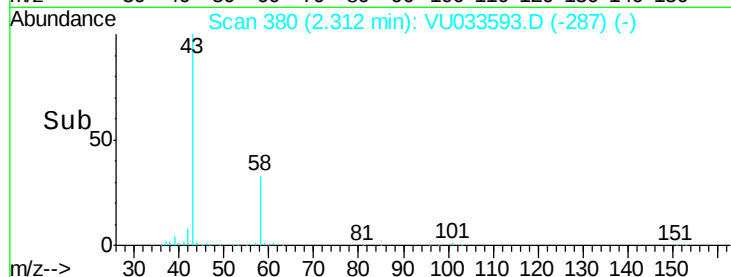
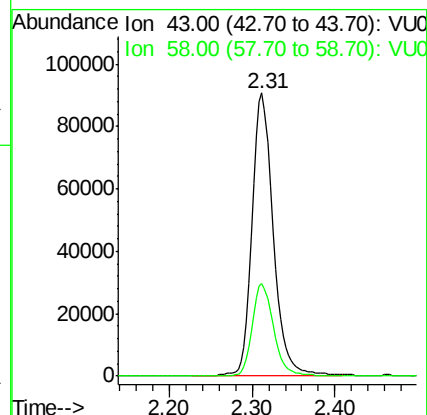
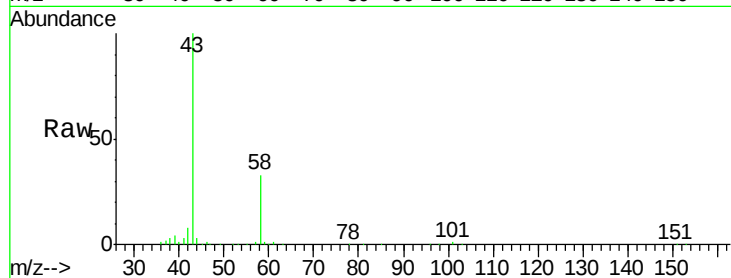
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 161417

Ion Ratio Lower Upper

43 100

58 32.7 0.0 65.4



#14

Carbon disulfide

Concen: 48.629 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033593.D

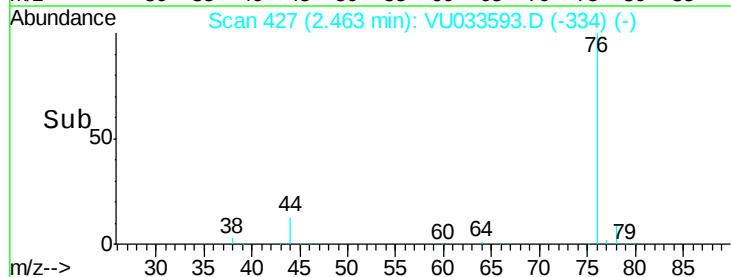
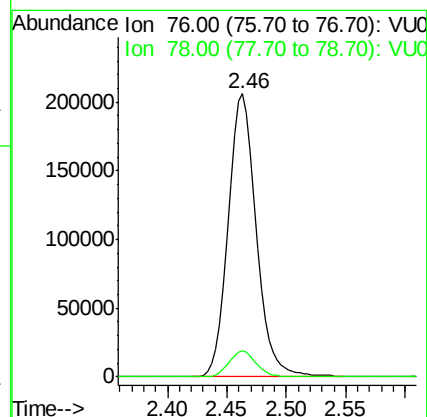
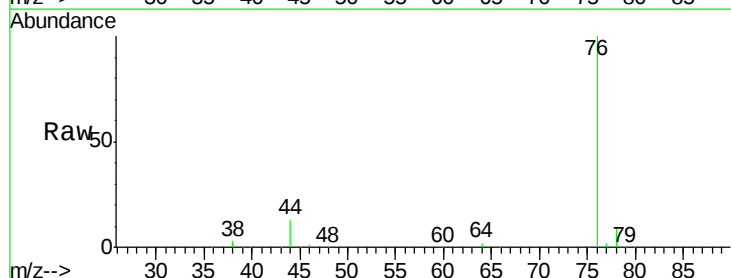
Acq: 05 Aug 2019 11:42

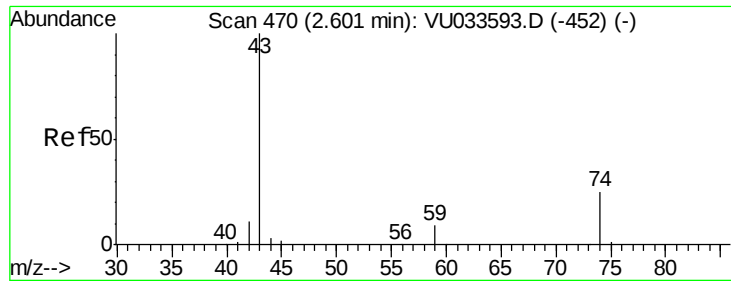
Tgt Ion: 76 Resp: 337474

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2

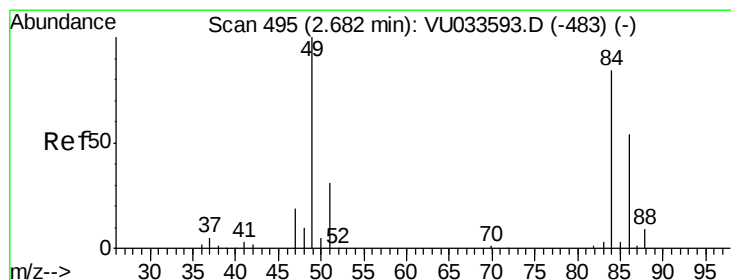
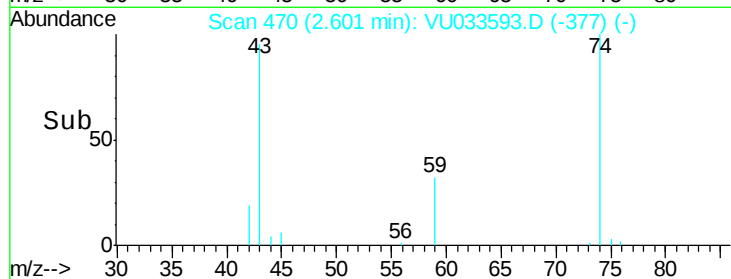
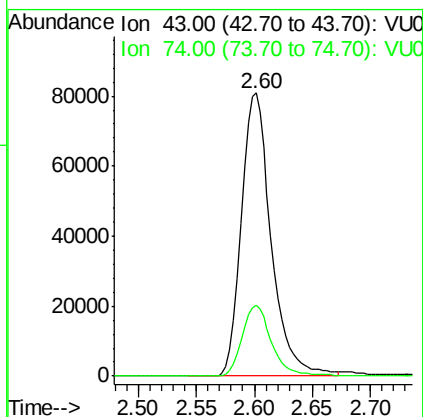
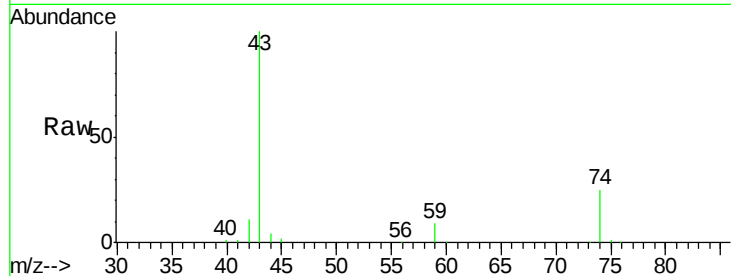




#15
Methyl Acetate
Concen: 47.874 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

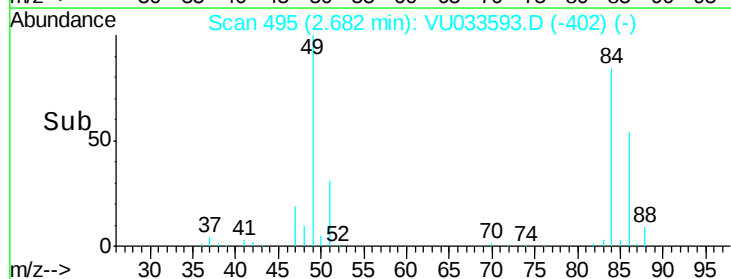
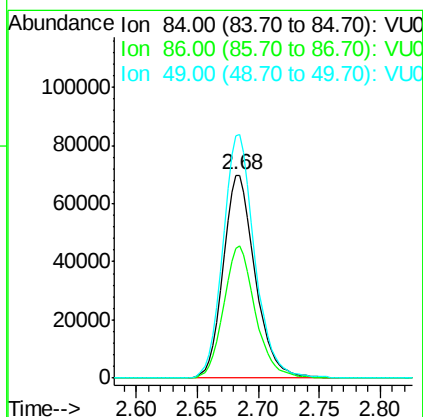
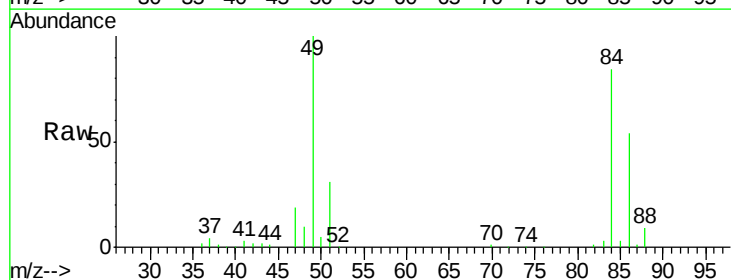
Instrument :
MSVOA_U
ClientSampleId :

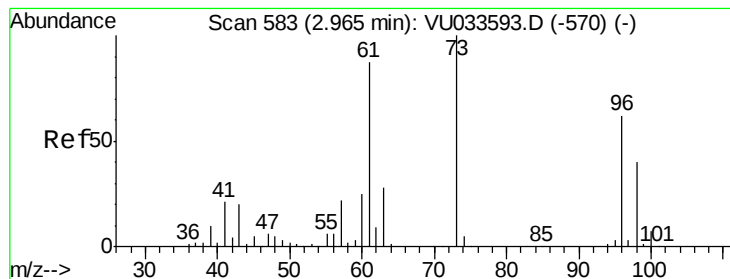
Tot Ion: 43 Resp: 144186
Ion Ratio Lower Upper
43 100
74 24.7 19.8 29.6



#16
Methylene chloride
Concen: 47.554 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

Tgt Ion: 84 Resp: 128406
Ion Ratio Lower Upper
84 100
86 64.2 44.9 83.5
49 119.2 83.4 155.0





#17

trans-1,2-Dichloroethene

Concen: 47.817 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :
MSVOA_U
ClientSampled :

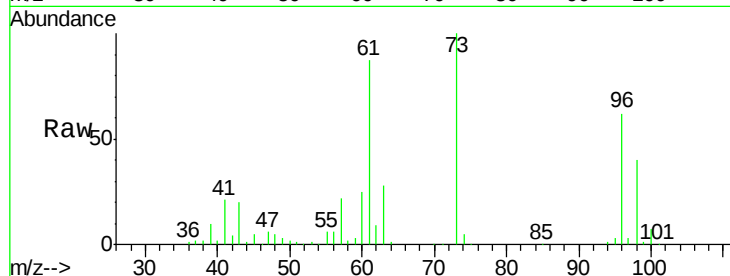
Tot Ion: 96 Resp: 116126

Ion Ratio Lower Upper

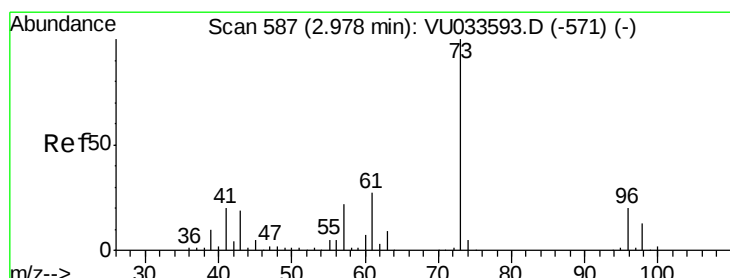
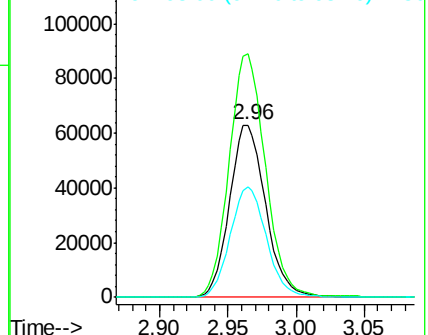
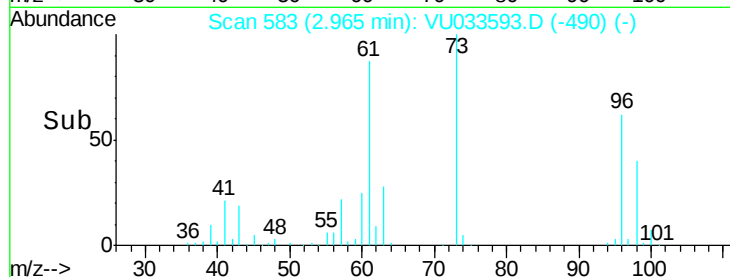
96 100

61 141.1 98.8 183.4

98 64.2 44.9 83.5



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



#18

Methyl tert-butyl Ether

Concen: 48.087 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

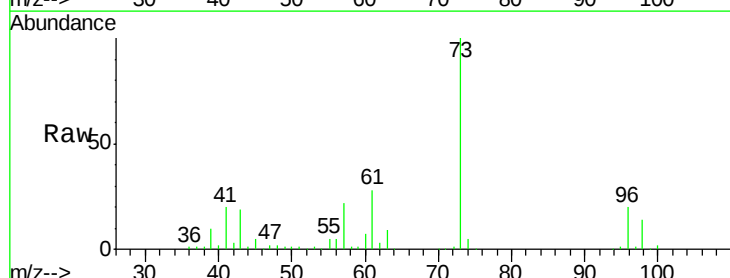
Tgt Ion: 73 Resp: 366516

Ion Ratio Lower Upper

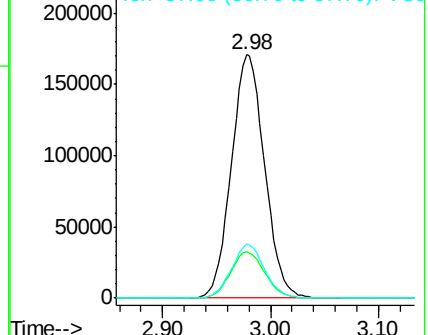
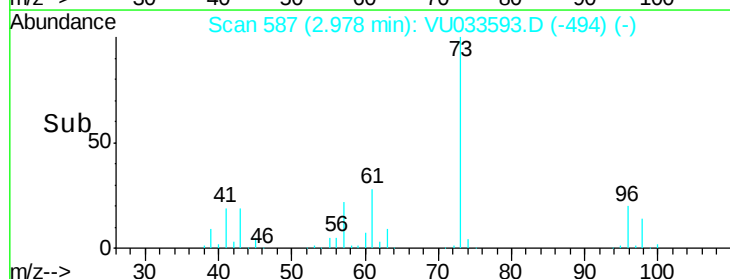
73 100

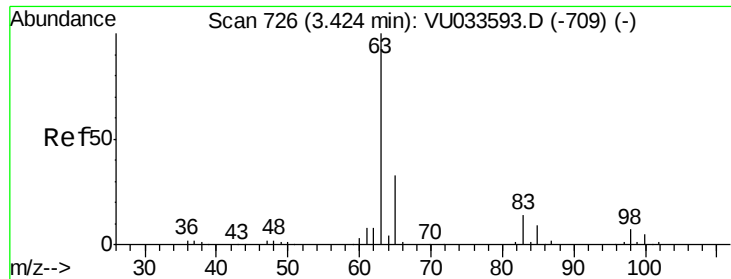
43 19.7 15.8 23.6

57 21.9 17.5 26.3



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

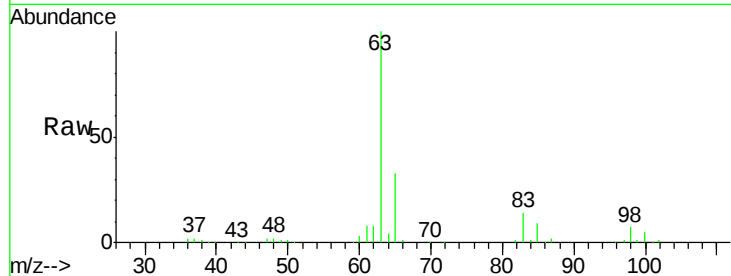




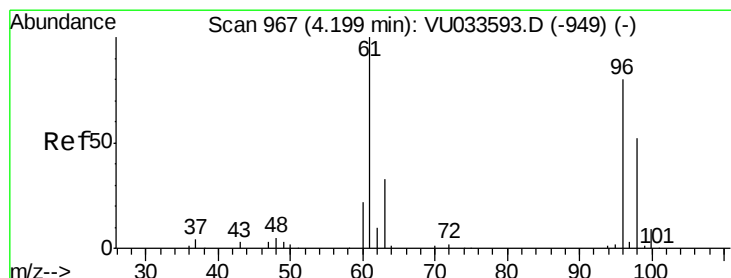
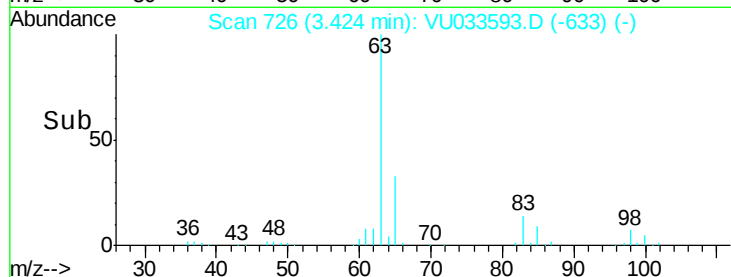
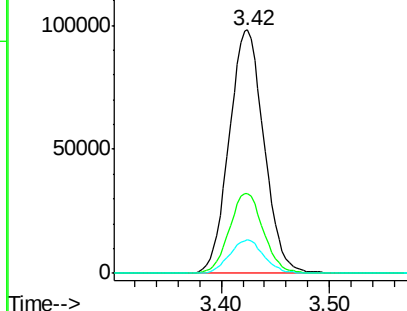
#19
 1,1-Dichloroethane
 Concen: 47.379 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 63 Resp: 220695
 Ion Ratio Lower Upper
 63 100
 65 32.7 22.9 42.5
 83 14.0 9.8 18.2

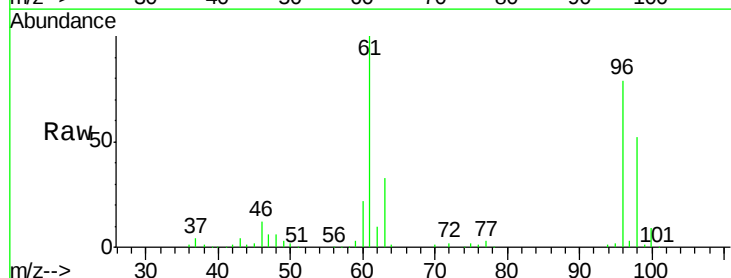


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

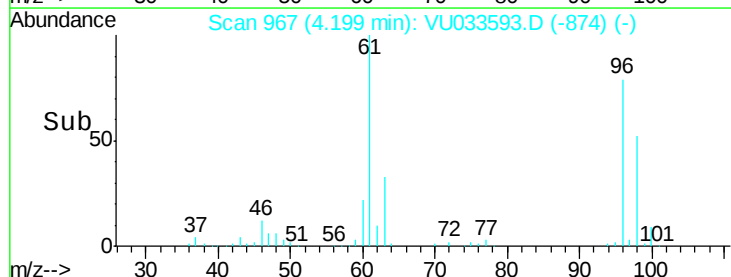
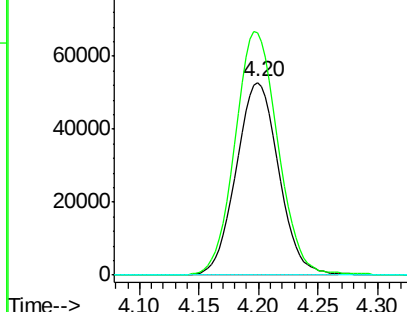


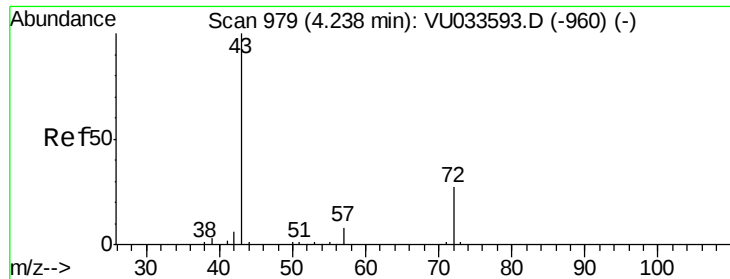
#20
 cis-1,2-Dichloroethene
 Concen: 47.637 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion: 96 Resp: 131015
 Ion Ratio Lower Upper
 96 100
 61 126.0 88.2 163.8
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 99.239 ug/L

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

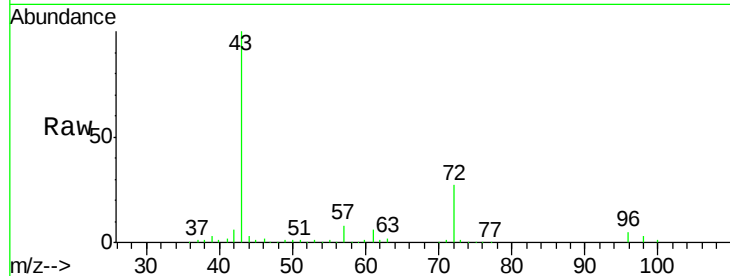
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 220313

Ion Ratio Lower Upper

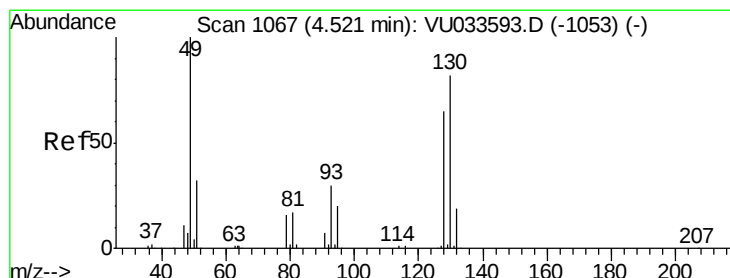
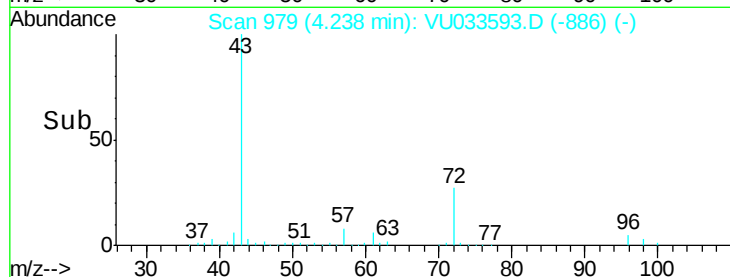
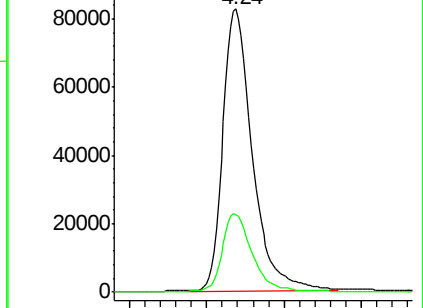
43 100

72 27.6 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033593.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033593.D (-960) (-)



#23

Bromochloromethane

Concen: 48.241 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Tgt Ion: 128 Resp: 67823

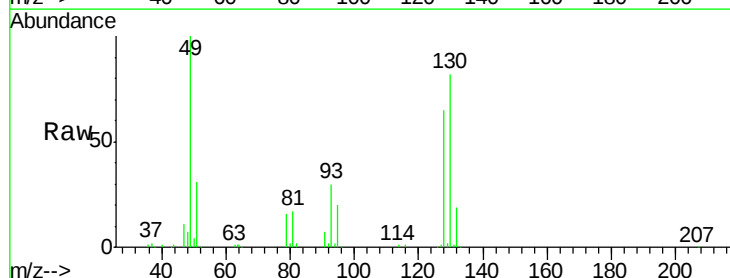
Ion Ratio Lower Upper

128 100

49 154.5 108.1 200.9

130 127.2 89.0 165.4

51 48.5 38.8 58.2

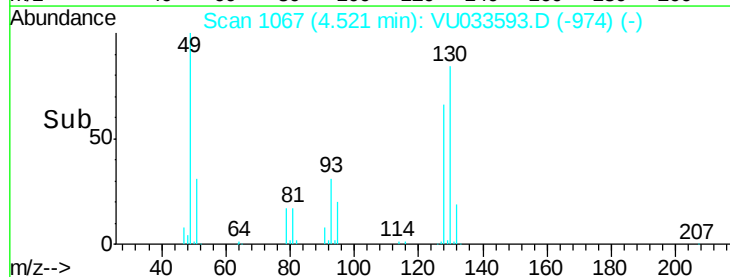
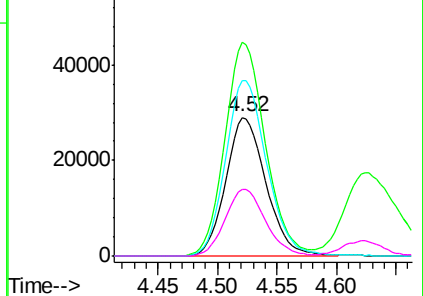


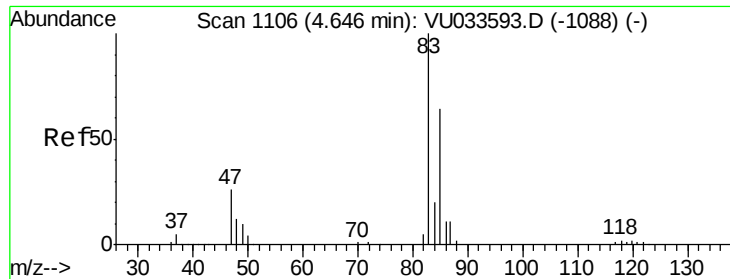
Abundance Ion 128.00 (127.70 to 128.70): VU033593.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033593.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033593.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033593.D (-1053) (-)





#25

Chloroform

Concen: 46.926 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

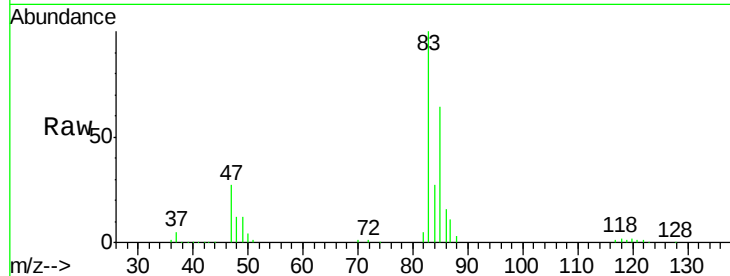
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 229543

Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU033593.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU033593.D (-1088) (-)

4.65

100000

80000

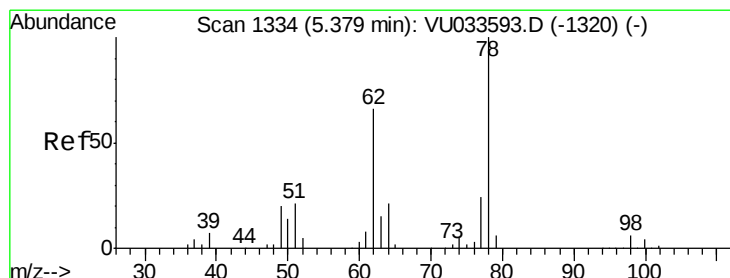
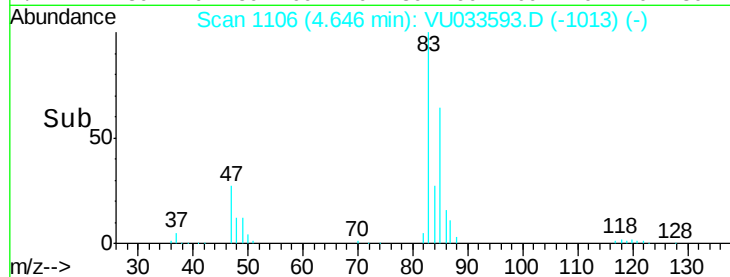
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 47.490 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VU033593.D

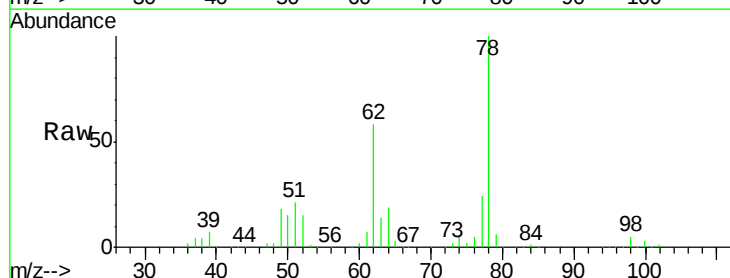
Acq: 05 Aug 2019 11:42

Tgt Ion: 62 Resp: 178744

Ion Ratio Lower Upper

62 100

98 8.7 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU033593.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033593.D (-1320) (-)

5.38

100000

80000

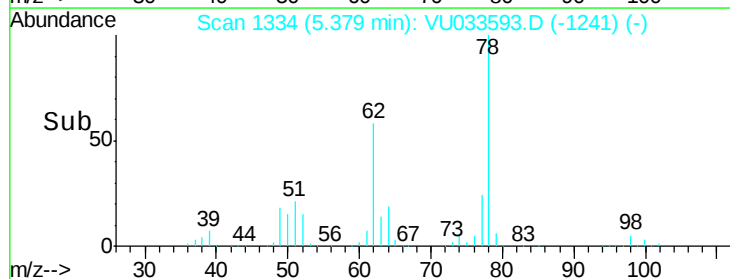
60000

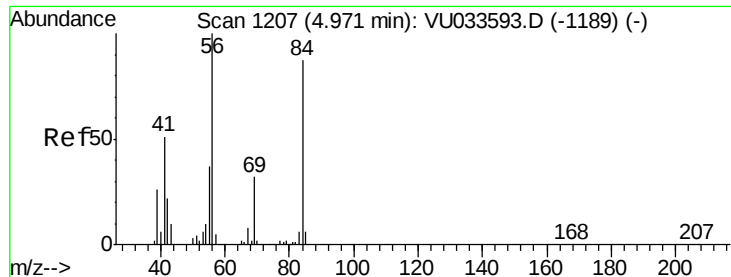
40000

20000

0

Time-->

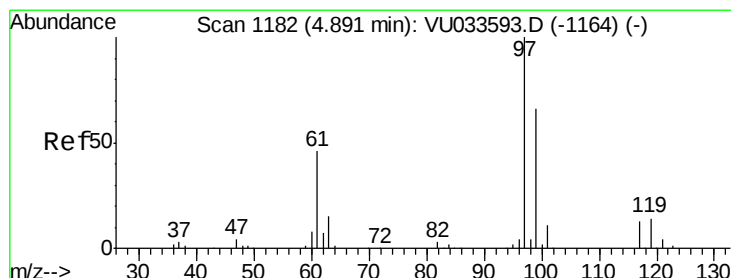
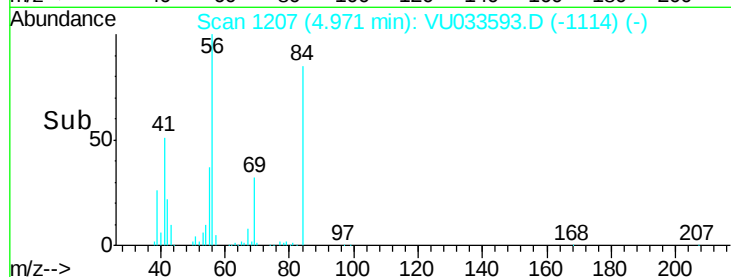
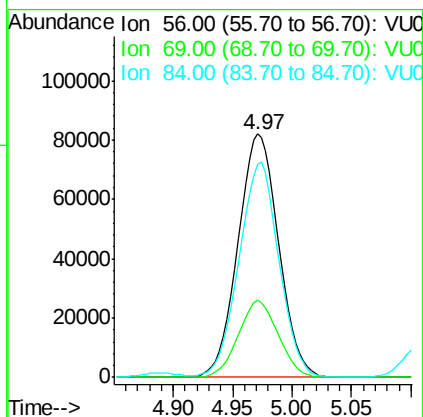
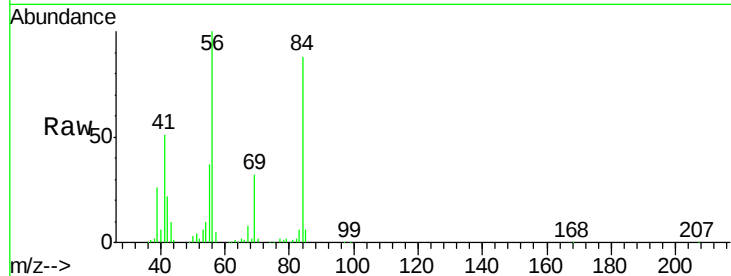




#29
Cyclohexane
Concen: 50.036 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

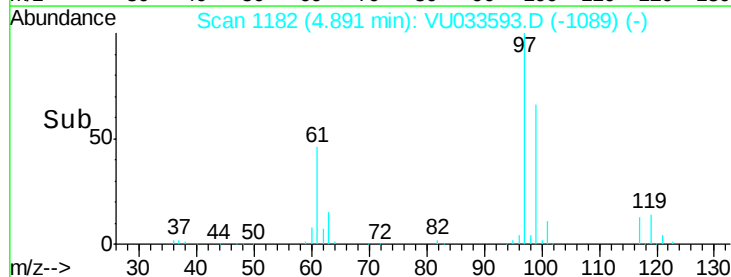
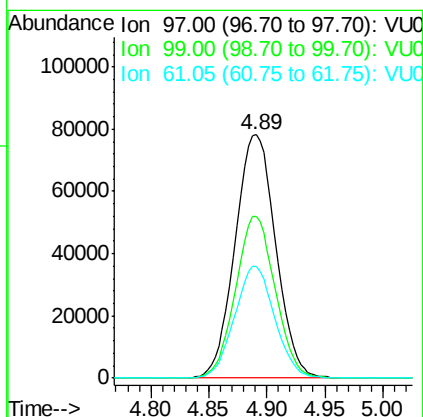
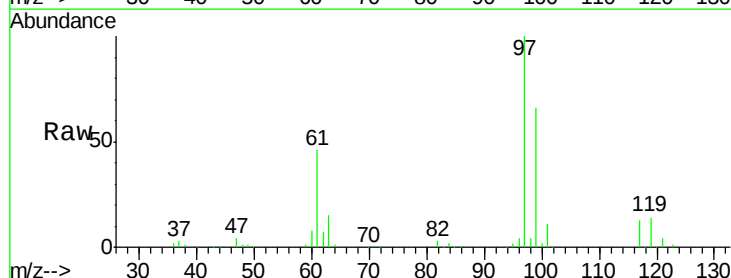
Instrument :
MSVOA_U
ClientSampleId :

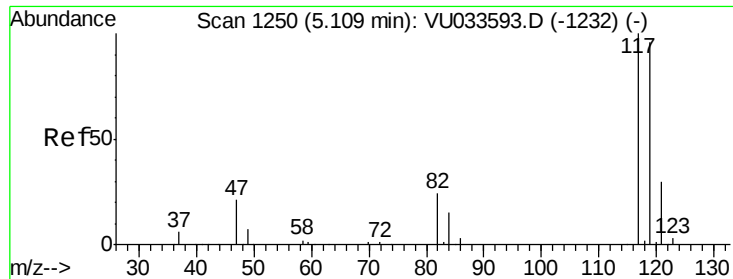
Tot Ion: 56 Resp: 193940
Ion Ratio Lower Upper
56 100
69 30.9 24.7 37.1
84 87.3 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 46.595 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

Tgt Ion: 97 Resp: 190872
Ion Ratio Lower Upper
97 100
99 64.7 51.8 77.6
61 45.2 36.2 54.2





#31

Carbon tetrachloride

Concen: 47.486 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

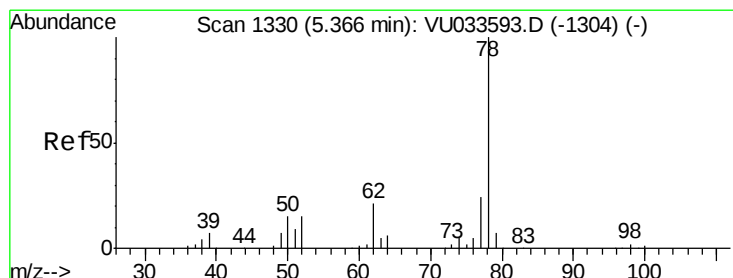
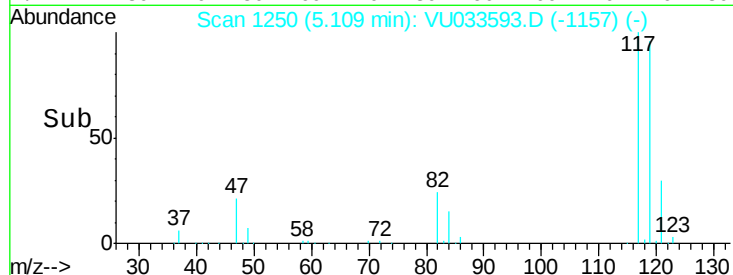
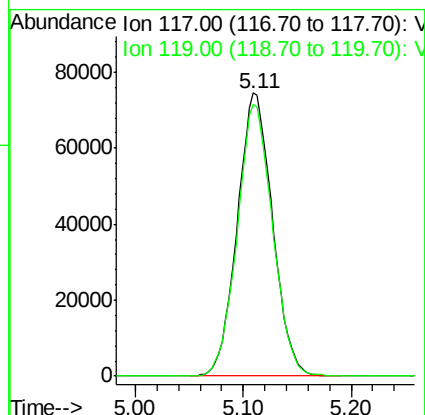
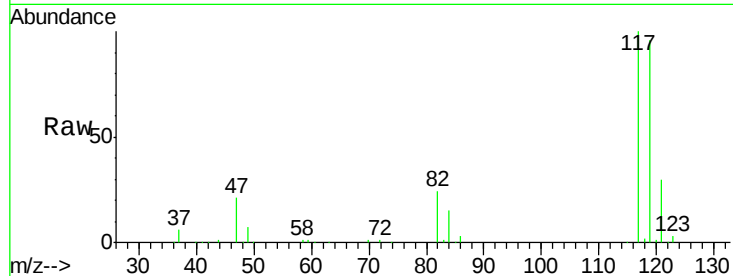
ClientSampleId :

Tot Ion:117 Resp: 169382

Ion Ratio Lower Upper

117 100

119 96.1 76.9 115.3



#33

Benzene

Concen: 49.041 ug/L

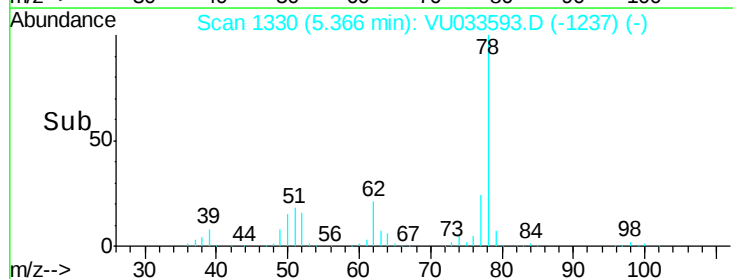
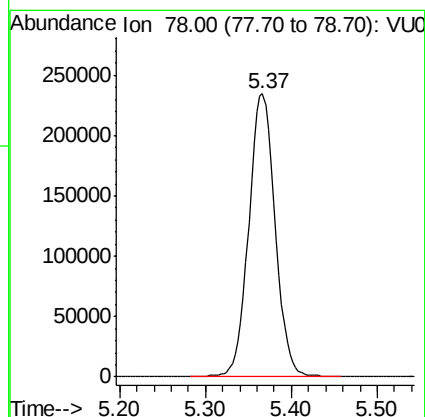
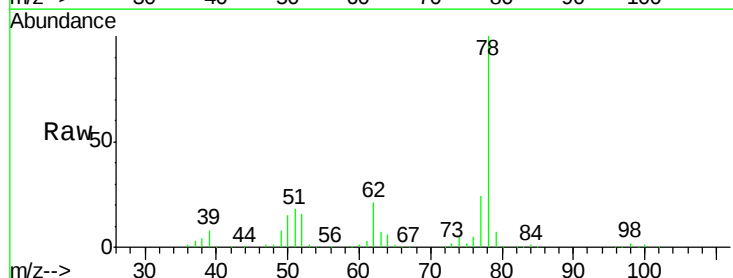
RT: 5.37 min Scan# 1330

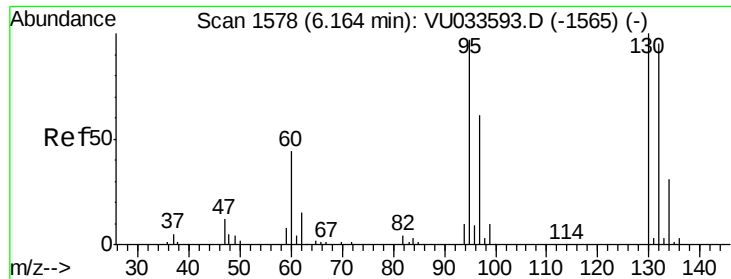
Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Tgt Ion: 78 Resp: 501789

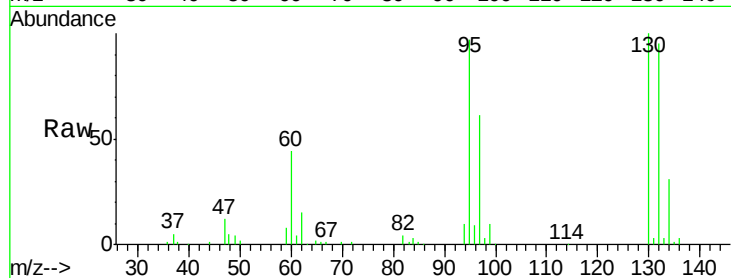




#34
 Trichloroethene
 Concen: 47.222 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	95	Resp:	127213
Ion	Ratio	Lower	Upper
95	100		
97	62.6	43.8	81.4
132	98.0	68.6	127.4
130	103.2	72.2	134.2



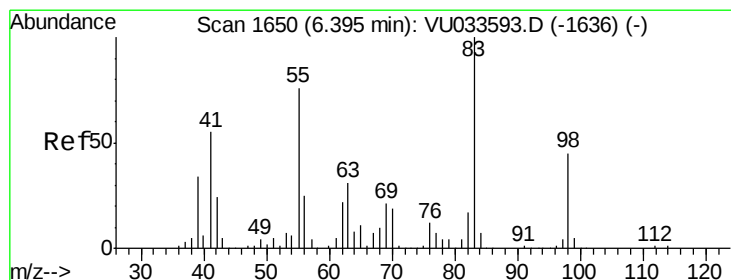
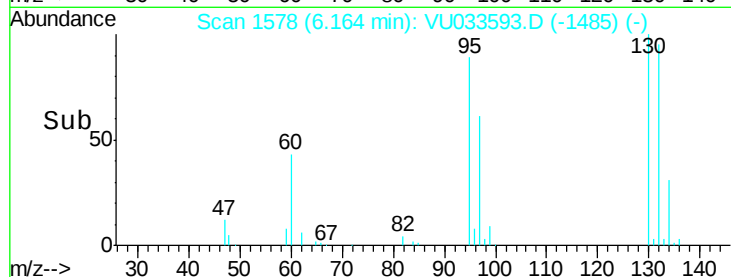
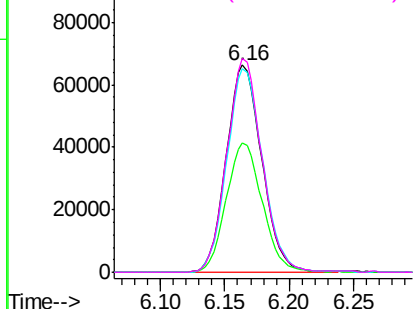
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

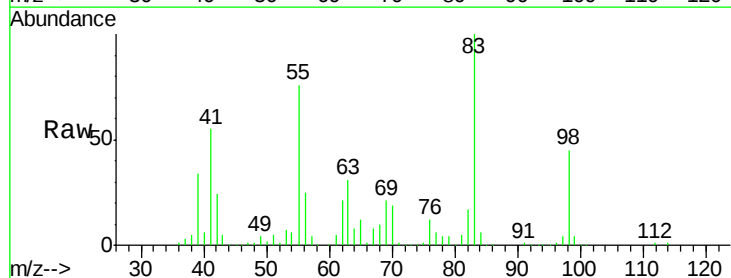
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35
 Methylcyclohexane
 Concen: 50.272 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion:	83	Resp:	205616
Ion	Ratio	Lower	Upper
83	100		
55	75.1	60.1	90.1
98	46.0	36.8	55.2

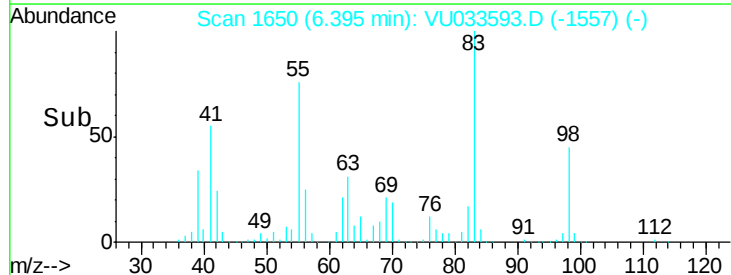
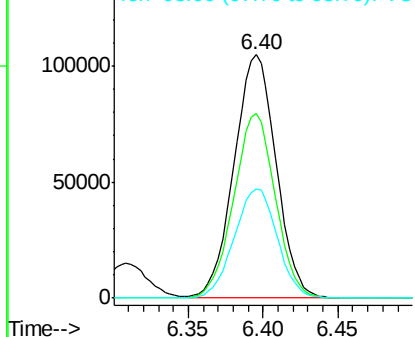


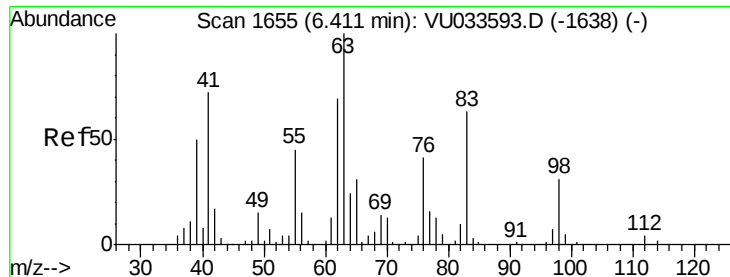
Abundance

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

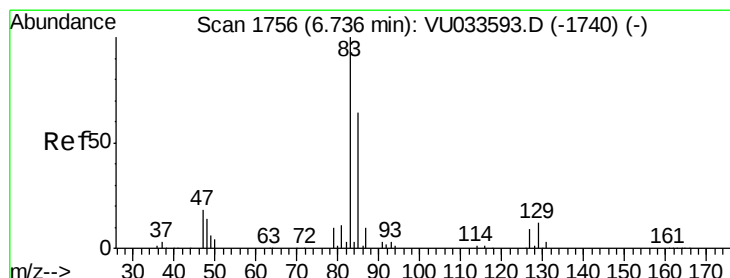
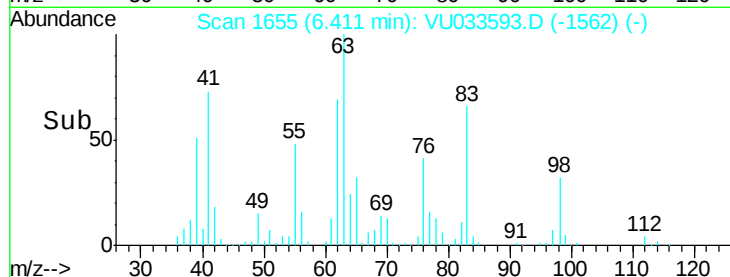
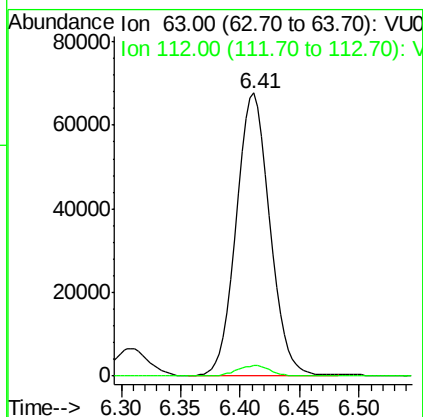
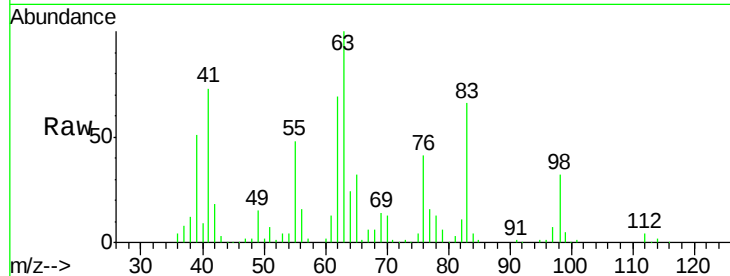




#37
 1,2-Dichloropropane
 Concen: 47.537 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

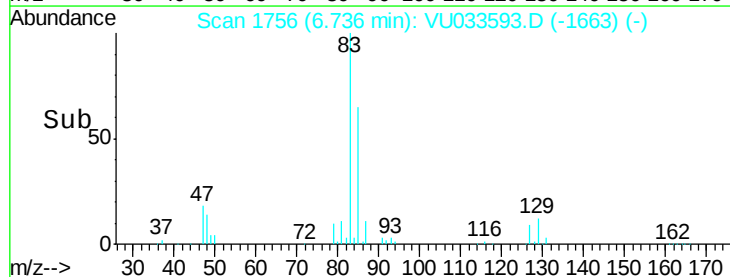
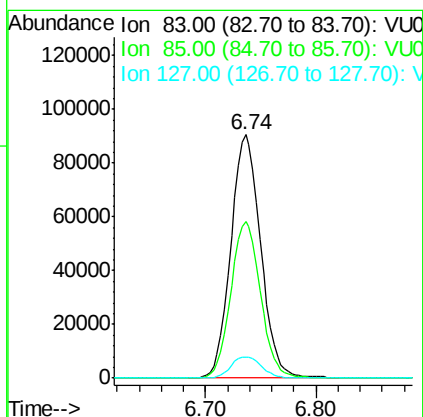
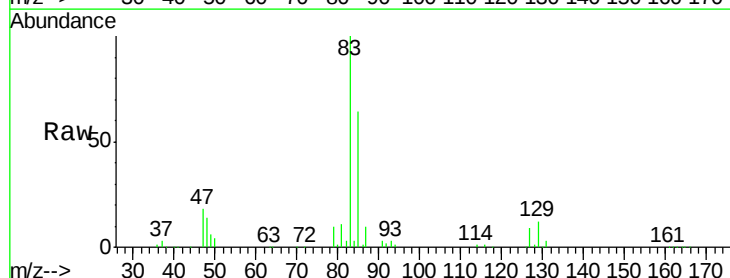
Instrument :
 MSVOA_U
 ClientSampled :

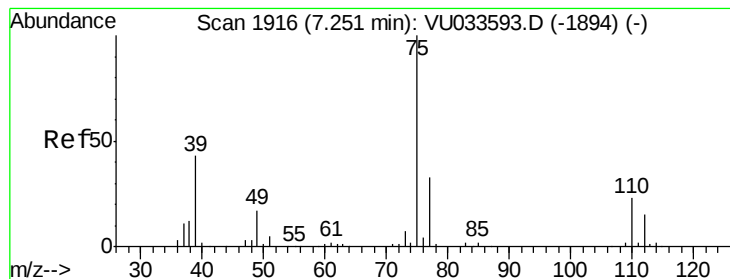
Tot Ion: 63 Resp: 133103
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 46.897 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion: 83 Resp: 170140
 Ion Ratio Lower Upper
 83 100
 85 64.2 44.9 83.5
 127 8.7 7.0 10.4



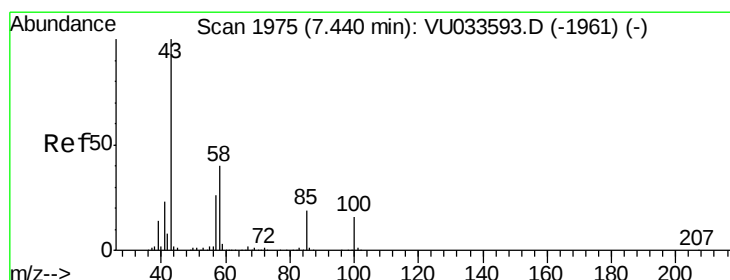
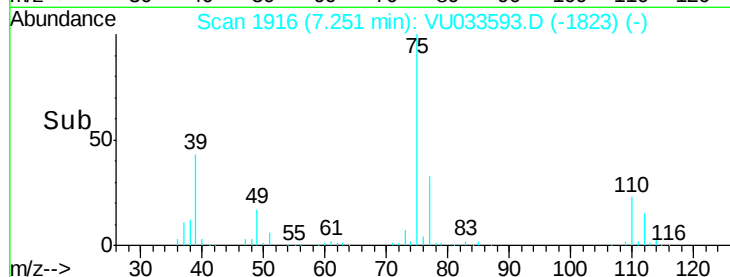
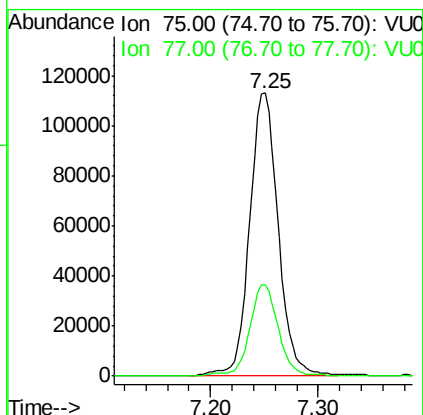
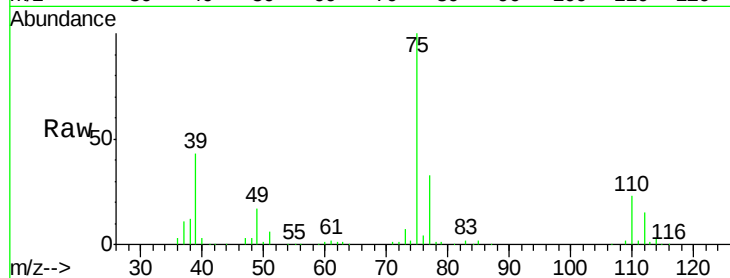


#39

cis-1,3-Dichloropropene
 Concen: 48.694 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Instrument :
 MSVOA_U
 ClientSampled :

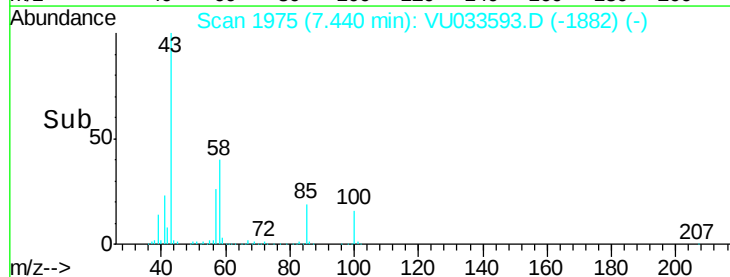
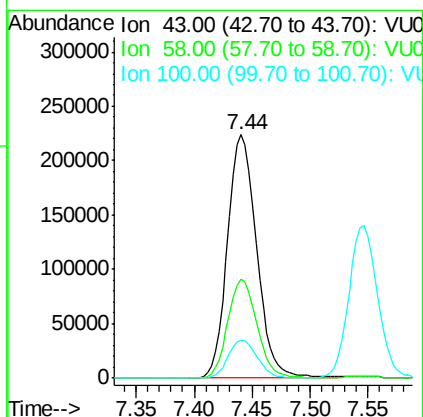
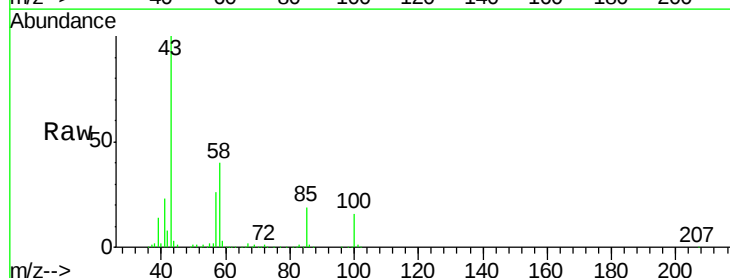
Tot Ion: 75 Resp: 208598
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.7 42.3

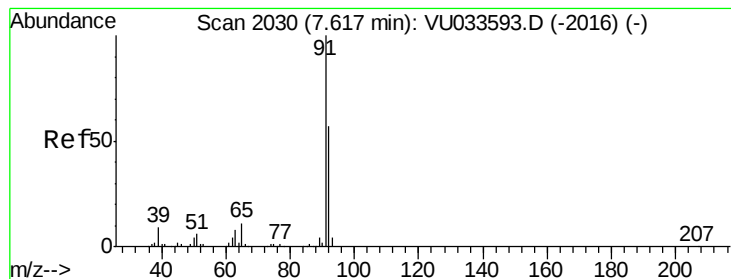


#40

4-Methyl-2-pentanone
 Concen: 96.615 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion: 43 Resp: 390982
 Ion Ratio Lower Upper
 43 100
 58 40.6 32.5 48.7
 100 15.7 12.6 18.8





#42

Toluene

Concen: 49.189 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

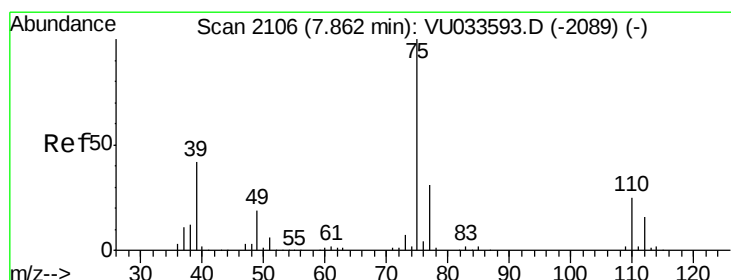
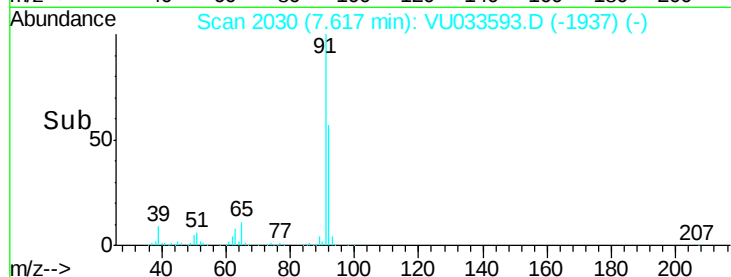
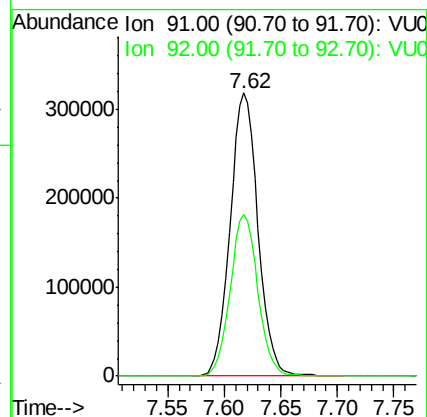
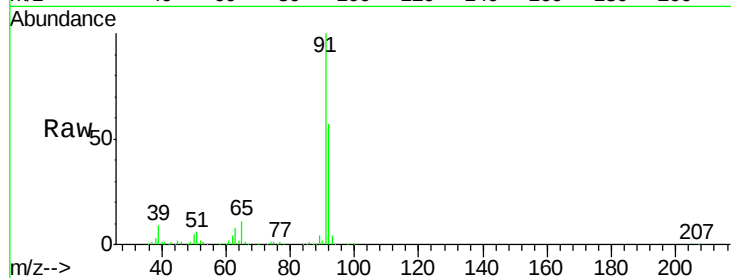
ClientSampleId :

Tot Ion: 91 Resp: 544645

Ion Ratio Lower Upper

91 100

92 57.1 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 47.764 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033593.D

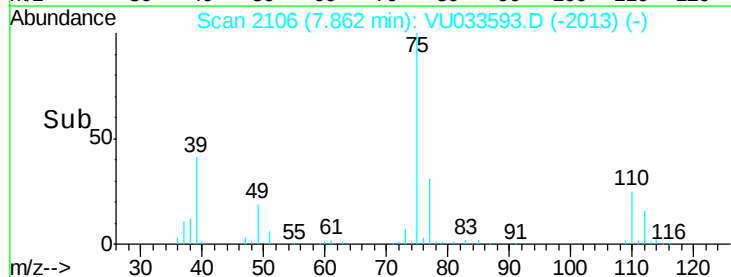
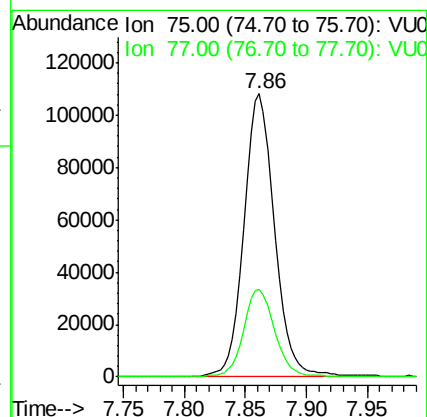
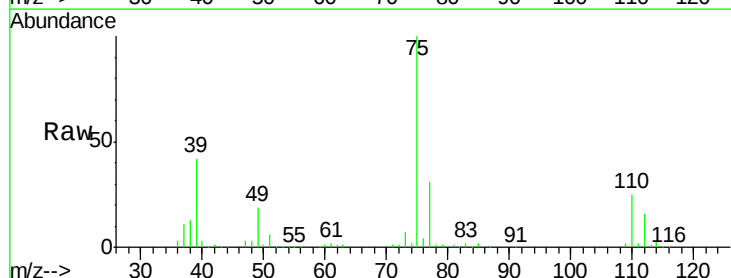
Acq: 05 Aug 2019 11:42

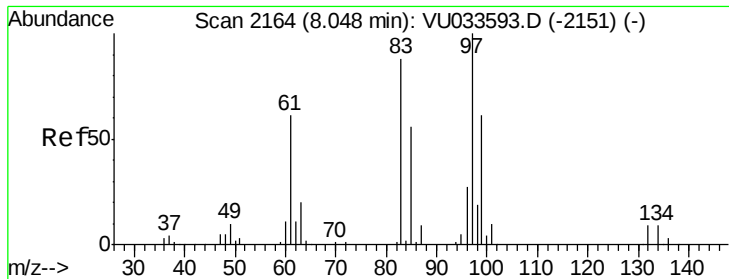
Tgt Ion: 75 Resp: 186859

Ion Ratio Lower Upper

75 100

77 30.9 21.6 40.2

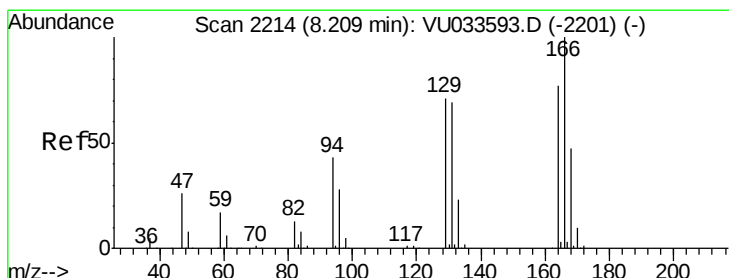
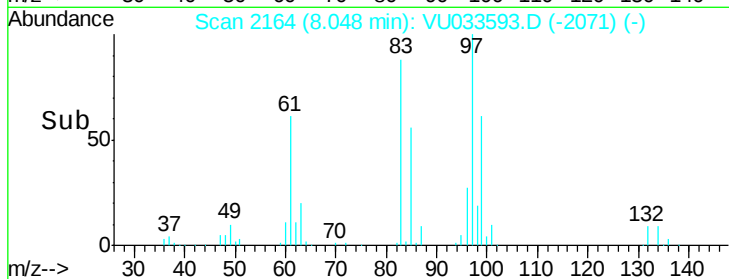
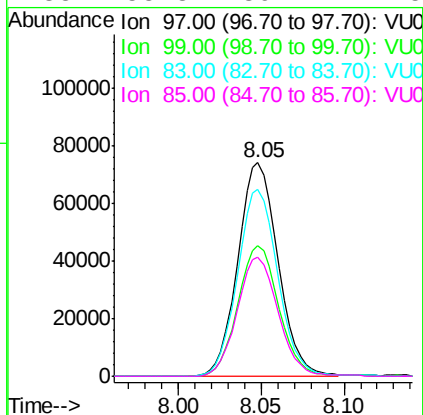
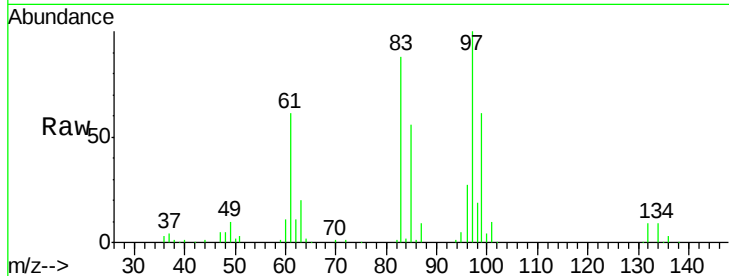




#45
 1,1,2-Trichloroethane
 Concen: 46.917 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

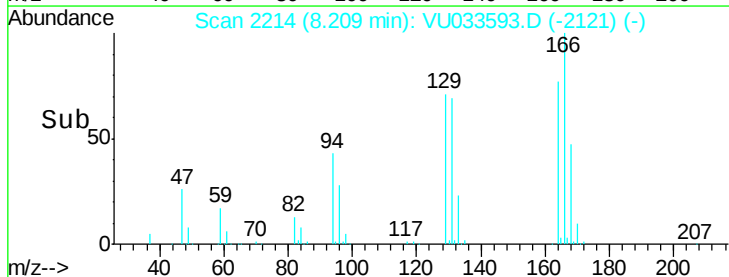
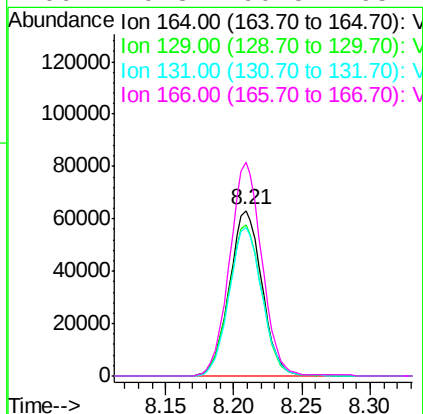
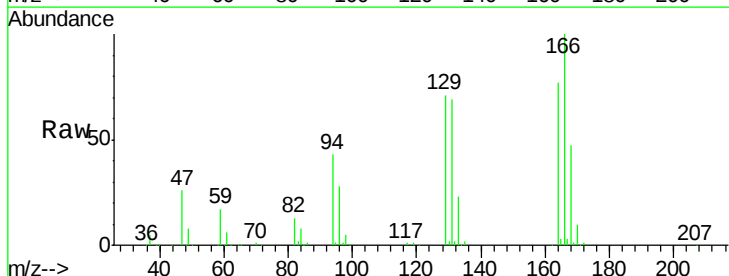
Instrument :
 MSVOA_U
 ClientSampleId :

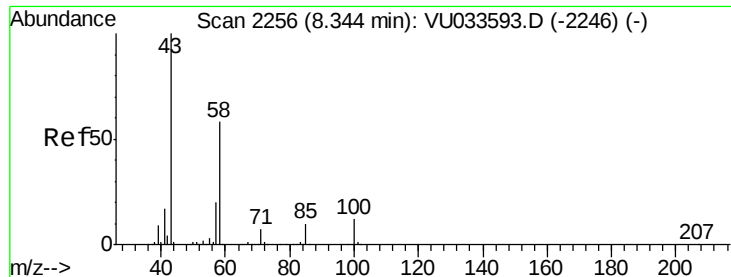
Tot Ion:	97	Resp:	125631
Ion	Ratio	Lower	Upper
97	100		
99	61.2	42.8	79.6
83	87.6	61.3	113.9
85	55.8	39.1	72.5



#46
 Tetrachloroethene
 Concen: 48.300 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion:	164	Resp:	104824
Ion	Ratio	Lower	Upper
164	100		
129	91.6	64.1	119.1
131	89.8	62.9	116.7
166	129.3	90.5	168.1

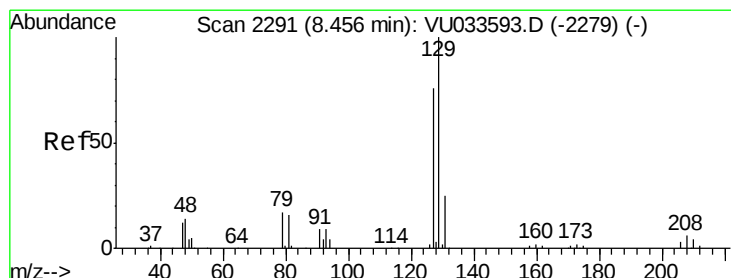
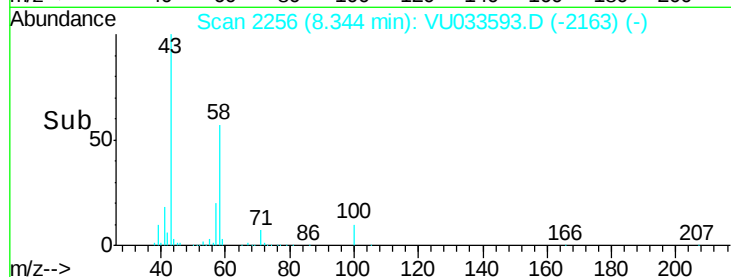
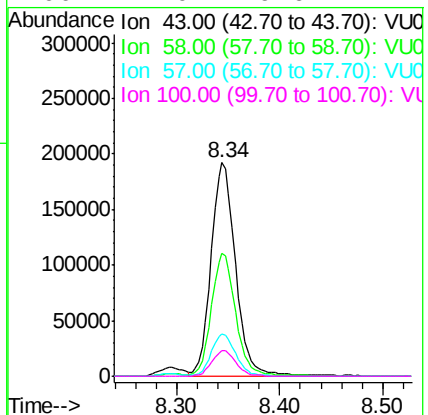
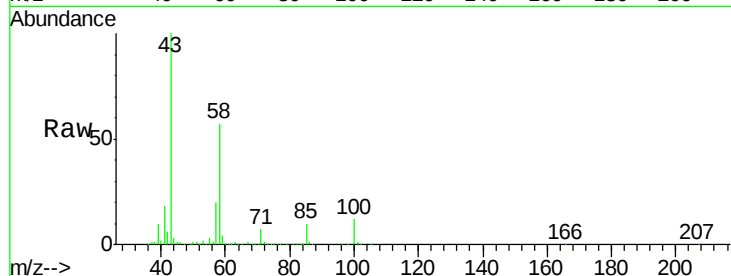




#48
2-Hexanone
Concen: 96.400 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

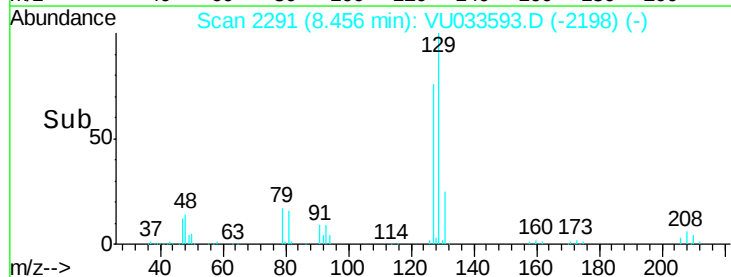
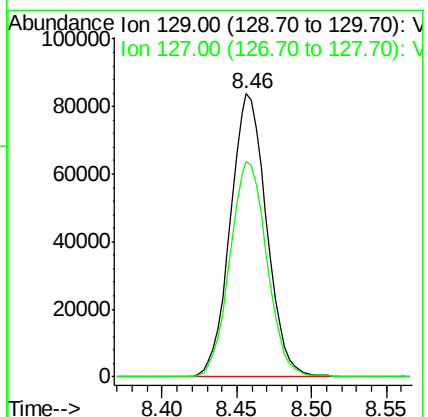
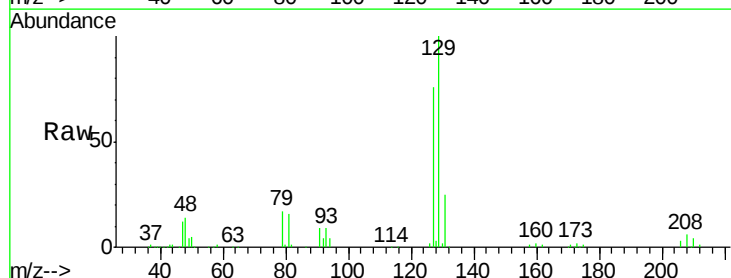
Instrument :
MSVOA_U
ClientSampled :

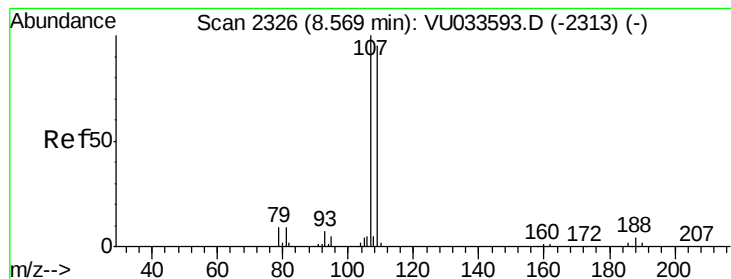
Tot Ion: 43 Resp: 314225
Ion Ratio Lower Upper
43 100
58 56.5 45.2 67.8
57 19.3 15.4 23.2
100 12.0 9.6 14.4



#49
Dibromochloromethane
Concen: 46.791 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

Tgt Ion: 129 Resp: 141336
Ion Ratio Lower Upper
129 100
127 76.3 53.4 99.2





#50

1,2-Dibromoethane

Concen: 47.249 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

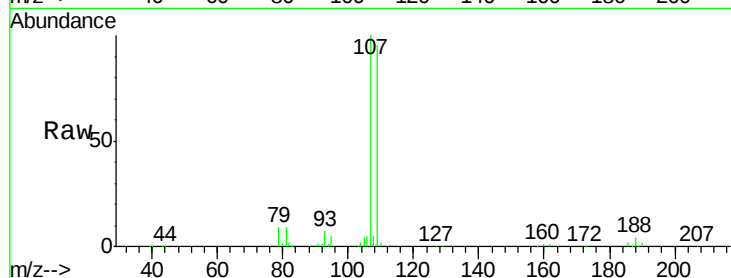
Tot Ion:107 Resp: 137180

Ion Ratio Lower Upper

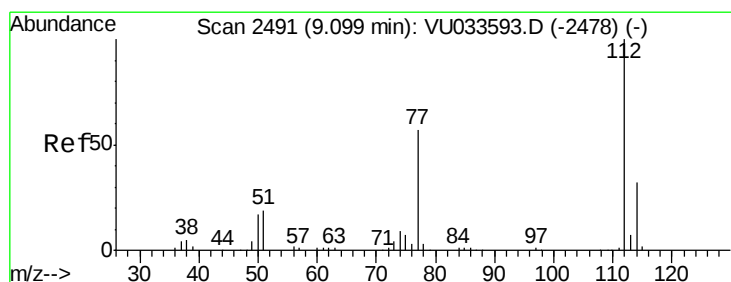
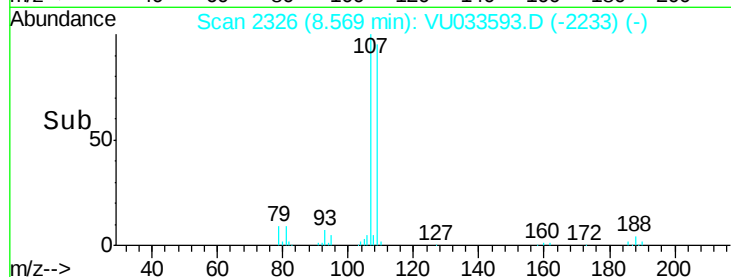
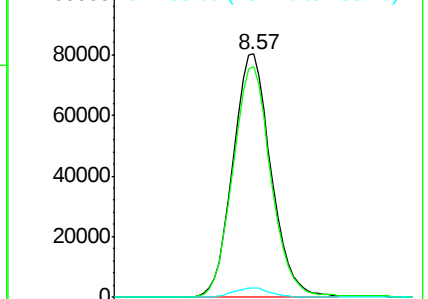
107 100

109 95.0 66.5 123.5

188 3.8 3.0 4.6



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: 47.266 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

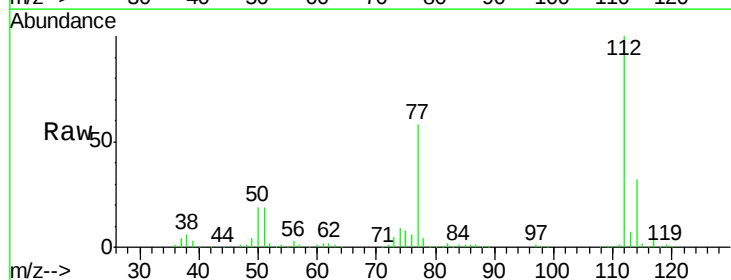
Tgt Ion:112 Resp: 342242

Ion Ratio Lower Upper

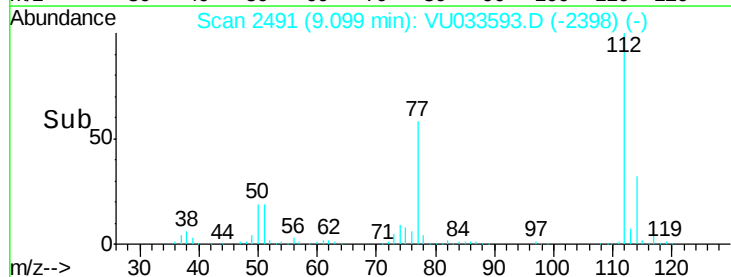
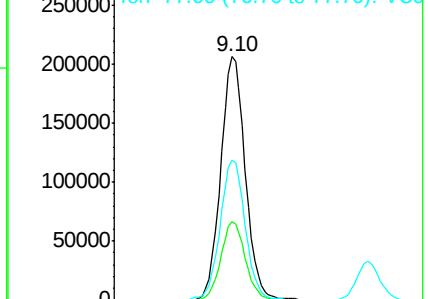
112 100

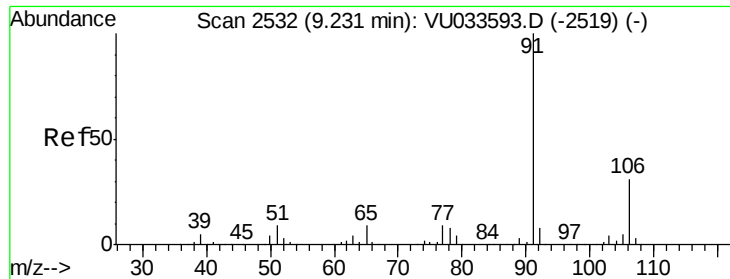
114 32.2 22.5 41.9

77 57.6 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

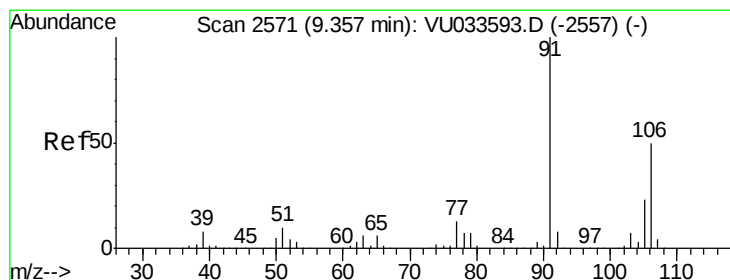
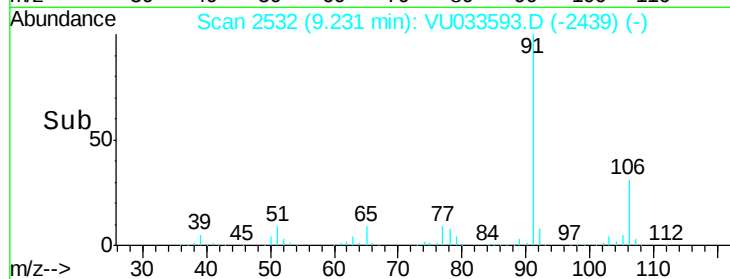
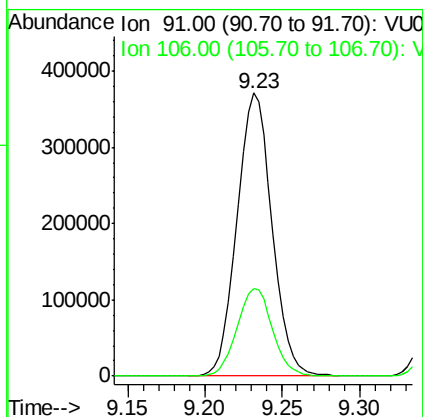
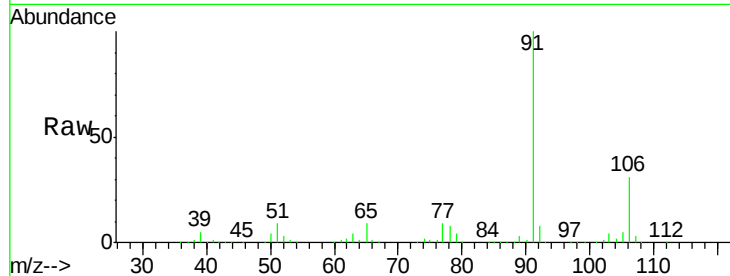




#52
Ethylbenzene
Concen: 49.382 ug/L
RT: 9.23 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

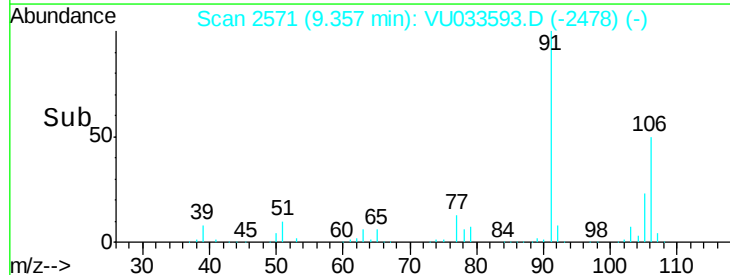
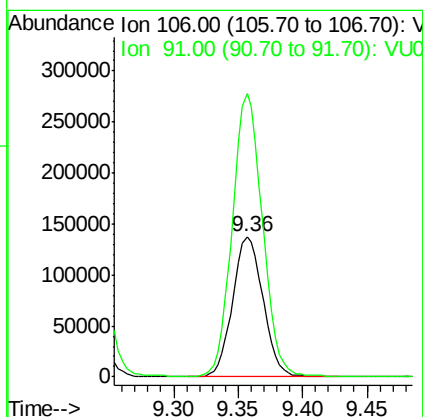
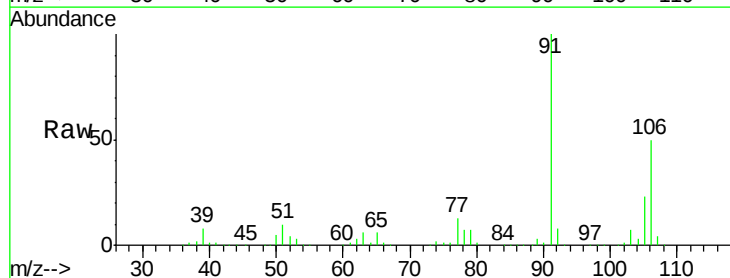
Instrument :
MSVOA_U
ClientSampleId :

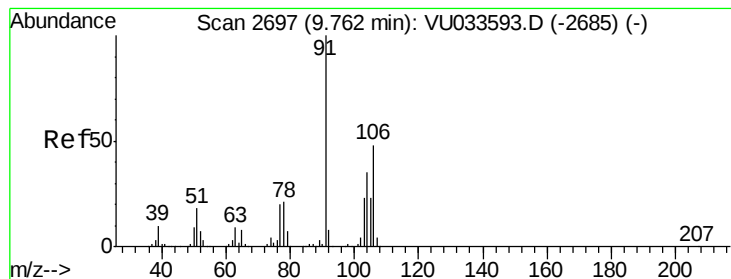
Tot Ion: 91 Resp: 582418
Ion Ratio Lower Upper
91 100
106 31.1 21.8 40.4



#53
m,p-Xylene
Concen: 50.008 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. 0.00 min
Lab File: VU033593.D
Acq: 05 Aug 2019 11:42

Tgt Ion: 106 Resp: 224659
Ion Ratio Lower Upper
106 100
91 201.9 141.3 262.5





#54

o-xylene

Concen: 49.854 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

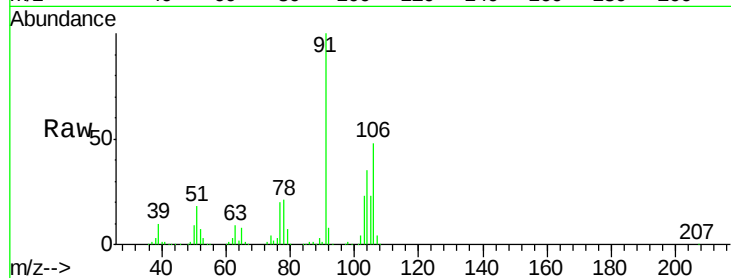
ClientSampled :

Tot Ion:106 Resp: 220773

Ion Ratio Lower Upper

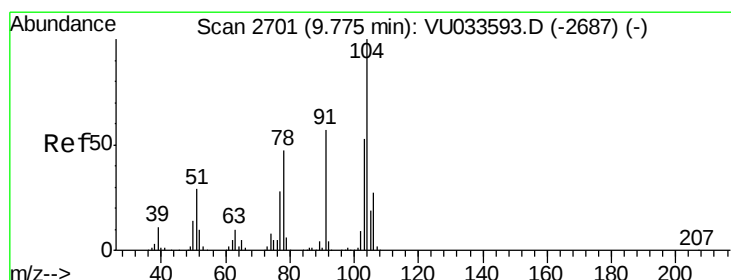
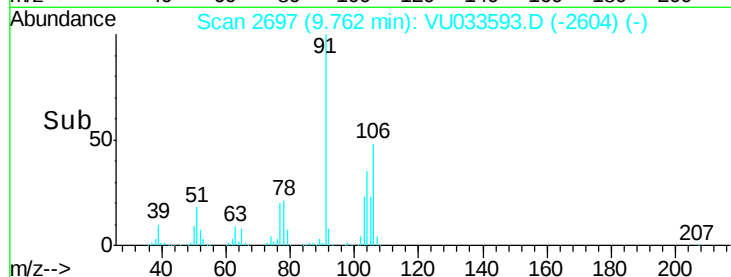
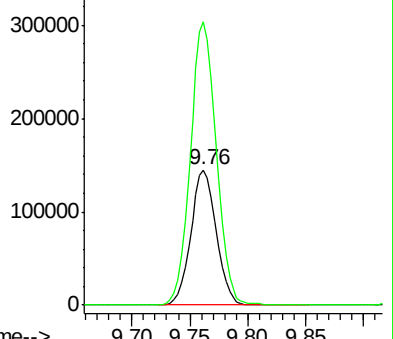
106 100

91 209.4 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.949 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033593.D

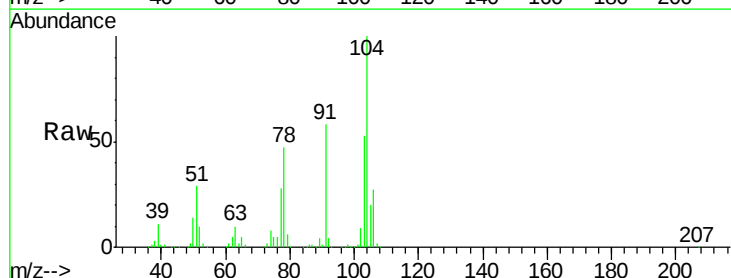
Acq: 05 Aug 2019 11:42

Tgt Ion:104 Resp: 375068

Ion Ratio Lower Upper

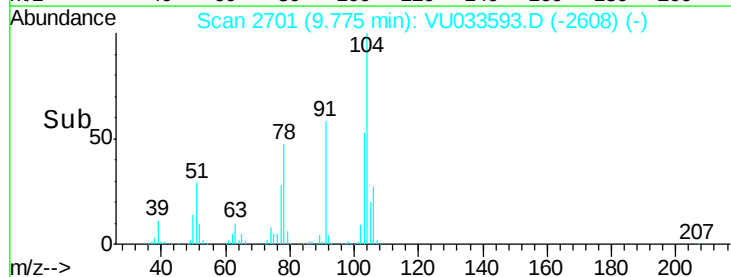
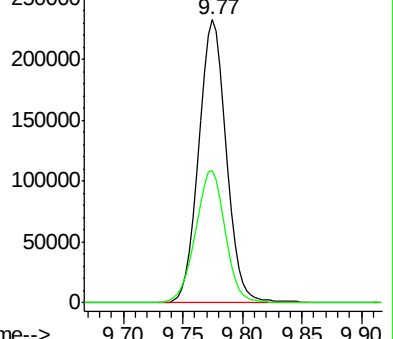
104 100

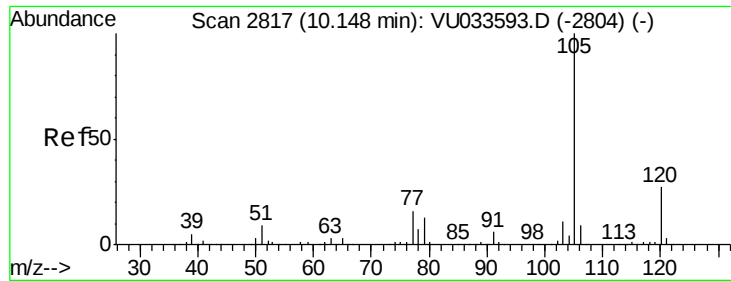
78 47.0 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.738 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

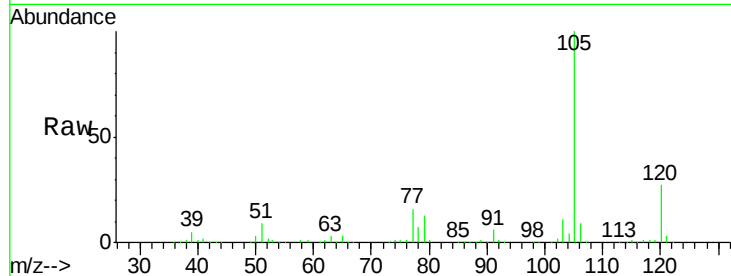
Tot Ion:105 Resp: 570423

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

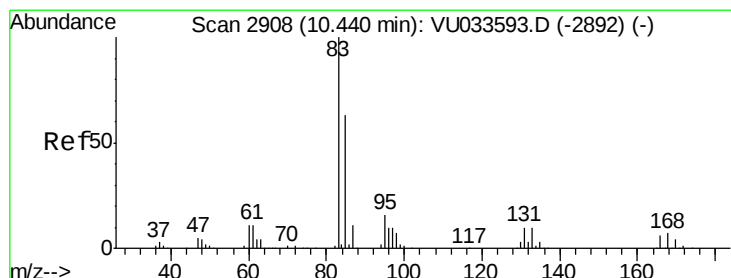
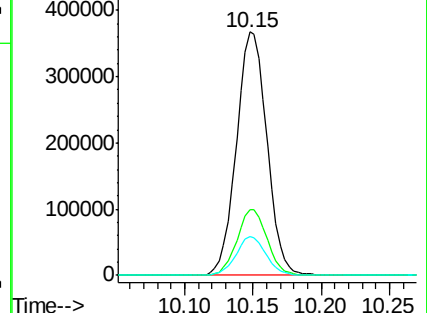
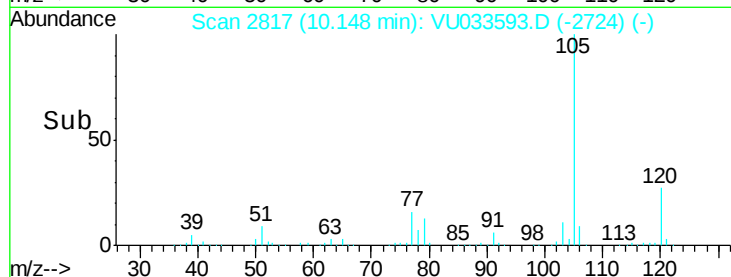
77 15.7 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.140 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

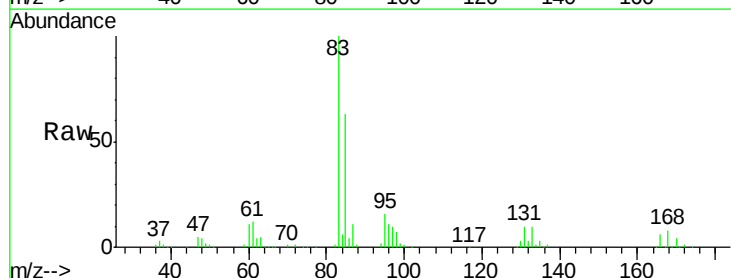
Tgt Ion: 83 Resp: 225954

Ion Ratio Lower Upper

83 100

85 63.3 44.3 82.3

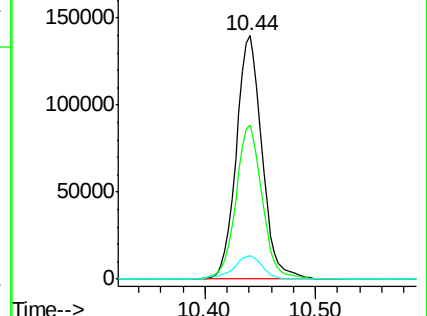
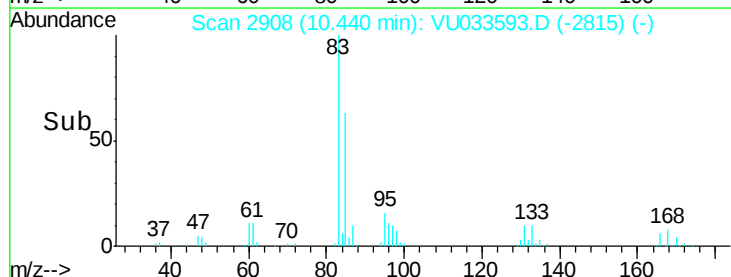
131 9.7 7.8 11.6

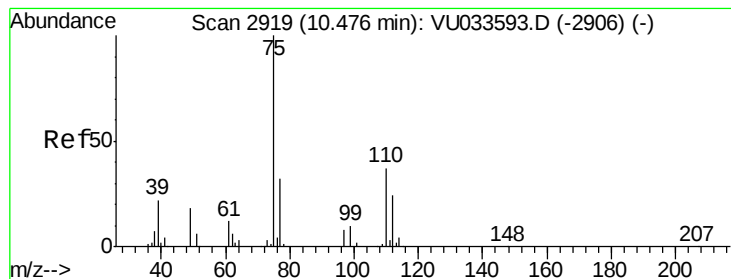


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.551 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

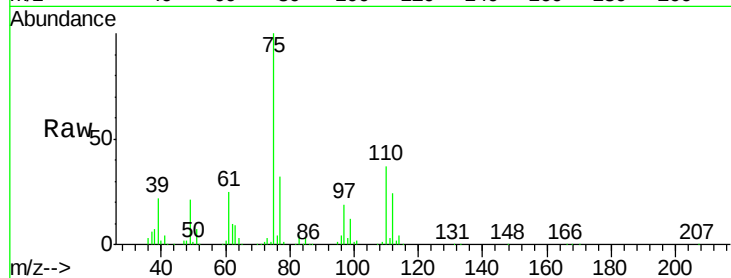
ClientSampleId :

Tot Ion: 75 Resp: 175953

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU033593.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU033593.D (-2906) (-)

10.48

120000

100000

80000

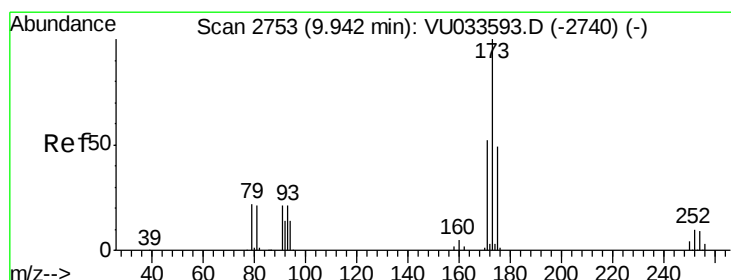
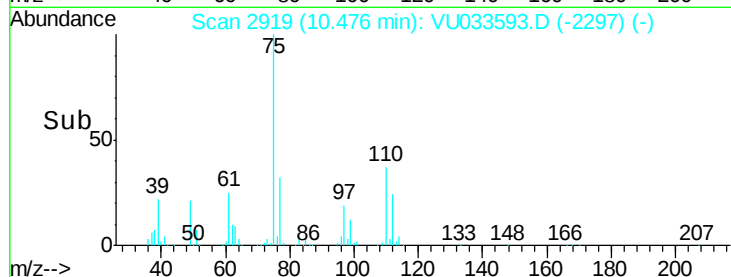
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 46.623 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

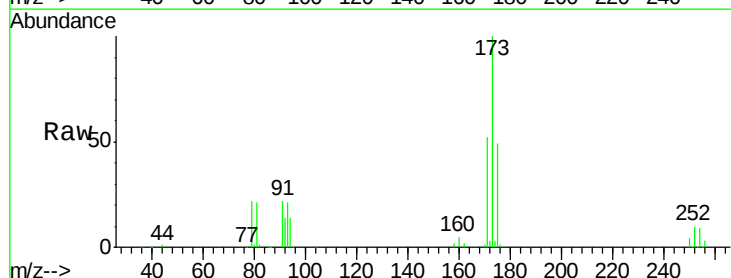
Tgt Ion: 173 Resp: 110882

Ion Ratio Lower Upper

173 100

175 49.2 39.4 59.0

254 9.0 7.2 10.8



Abundance Ion 173.00 (172.70 to 173.70): VU033593.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033593.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033593.D (-2740) (-)

9.94

80000

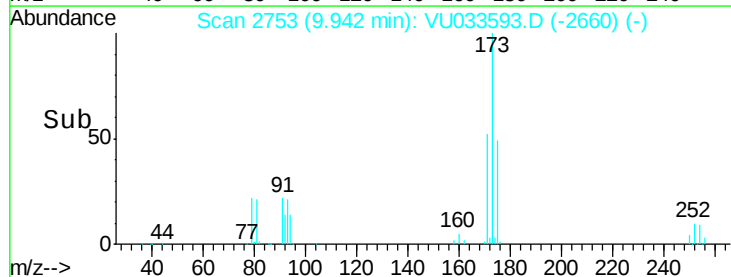
60000

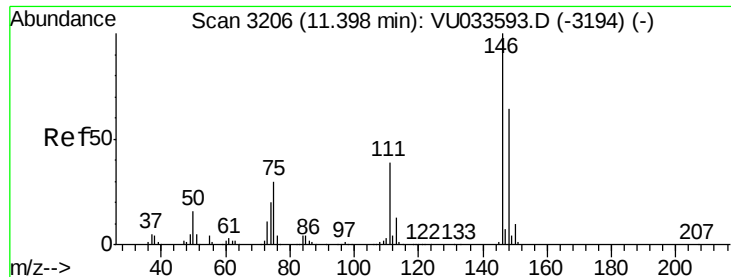
40000

20000

0

Time-->

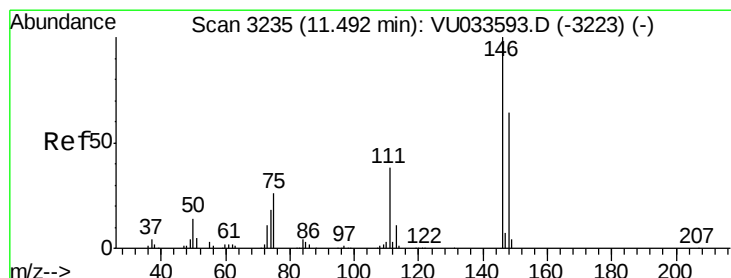
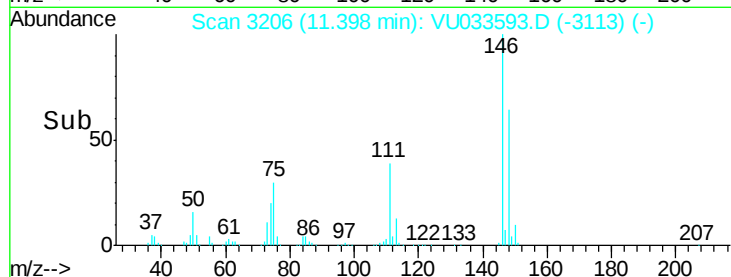
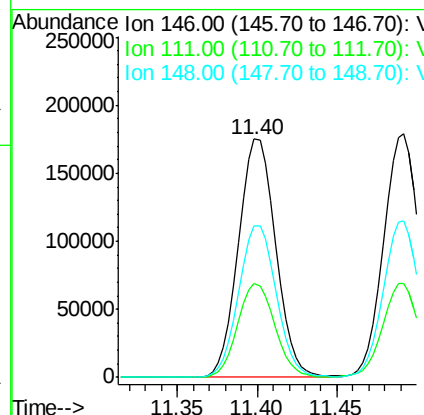
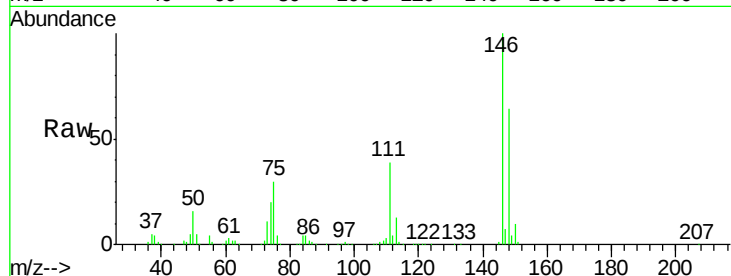




#62
 1,3-Dichlorobenzene
 Concen: 46.592 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

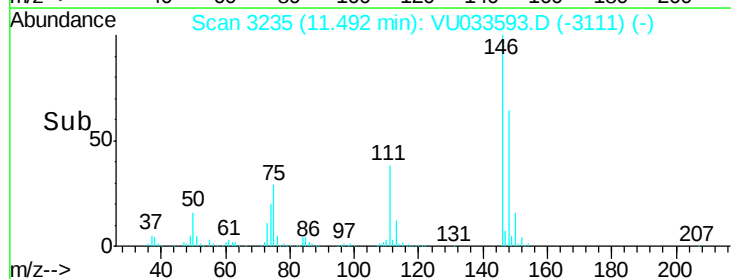
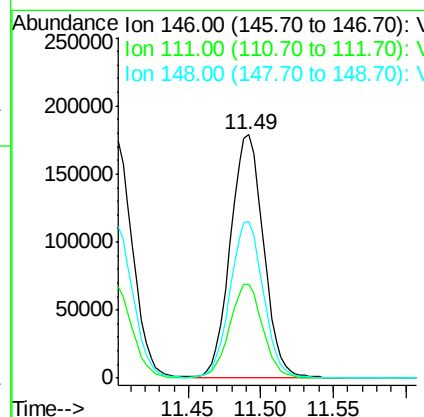
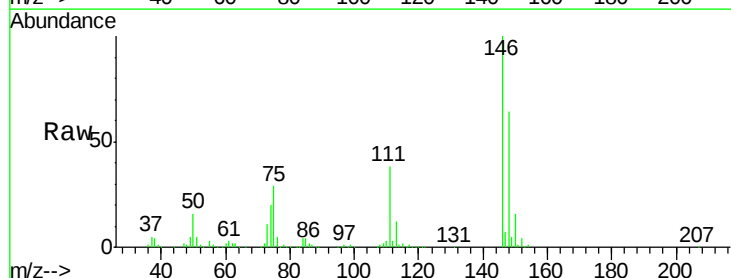
Instrument :
 MSVOA_U
 ClientSampleId :

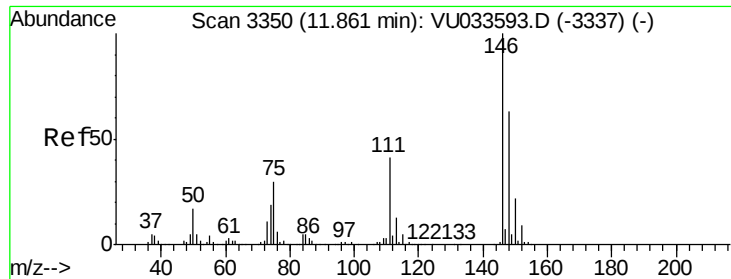
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	27.5	51.1
148	63.6	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 46.066 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	26.9	49.9
148	64.1	44.9	83.3





#65

1,2-Dichlorobenzene

Concen: 46.817 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

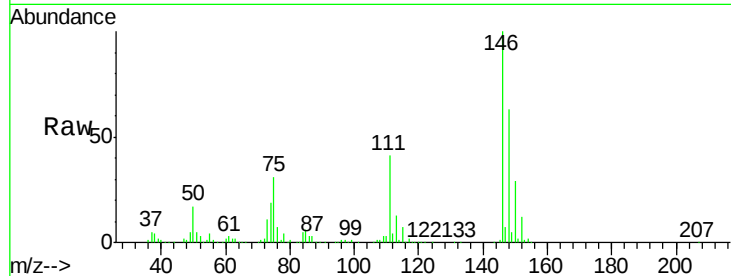
Tot Ion:146 Resp: 280139

Ion Ratio Lower Upper

146 100

111 41.3 33.0 49.6

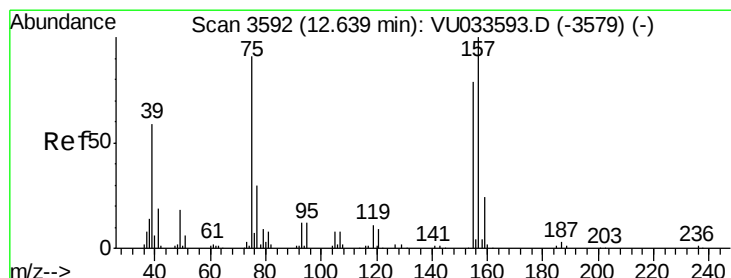
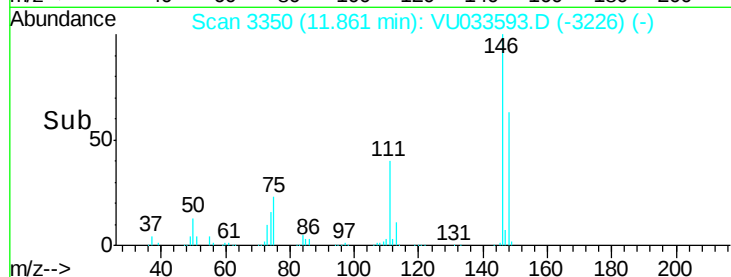
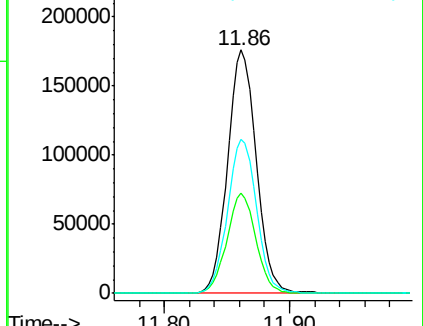
148 63.2 50.6 75.8



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



#66

1,2-Dibromo-3-chloropropane

Concen: 46.695 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

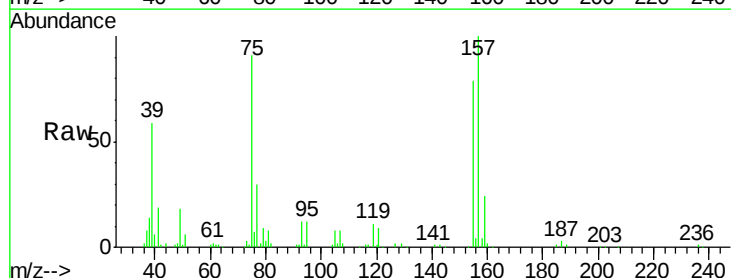
Tgt Ion: 75 Resp: 53576

Ion Ratio Lower Upper

75 100

155 86.3 69.0 103.6

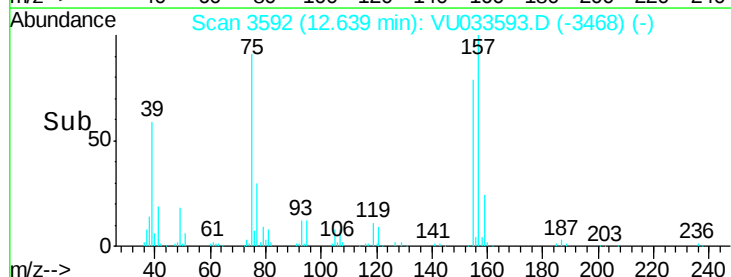
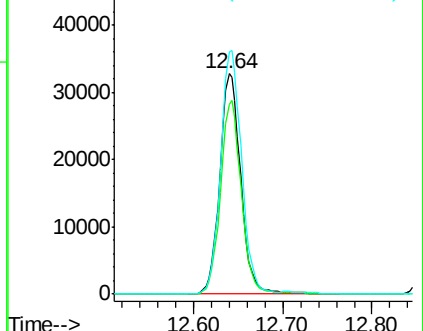
157 109.8 87.8 131.8

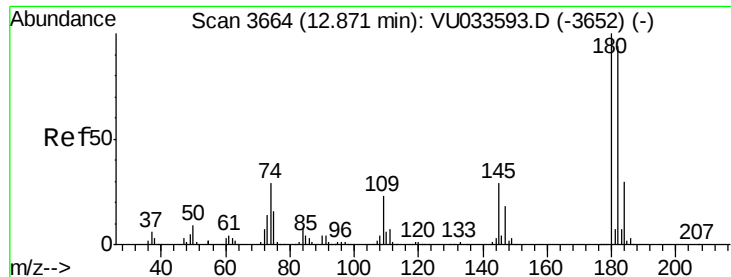


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

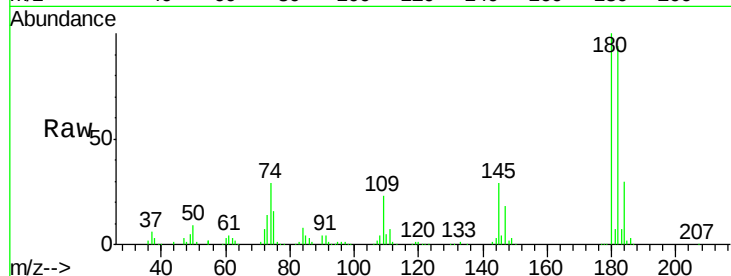




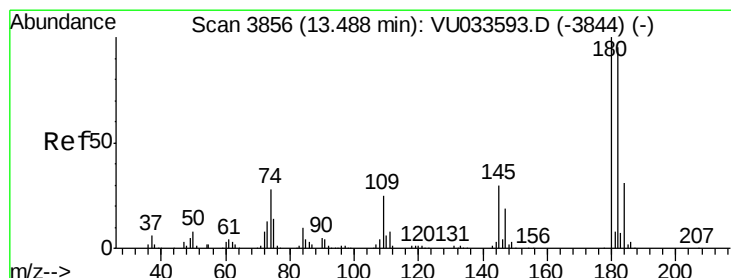
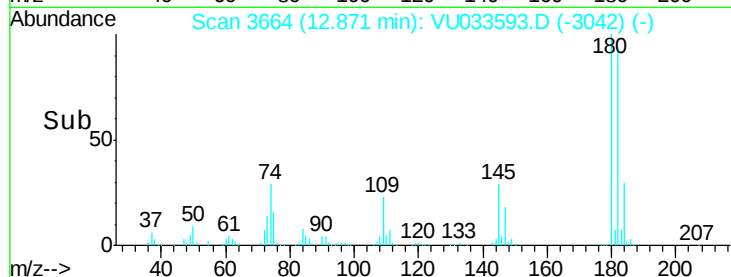
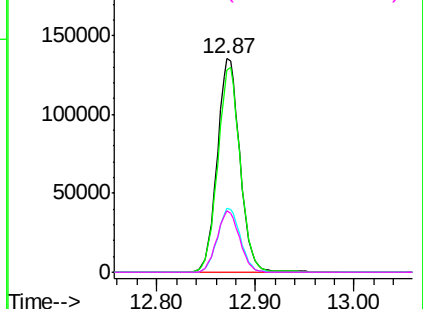
#67
 1,3,5-Trichlorobenzene
 Concen: 47.261 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	218209
Ion	Ratio	Lower Upper
180	100	
182	95.2	76.2 114.2
184	30.3	24.2 36.4
145	28.7	23.0 34.4

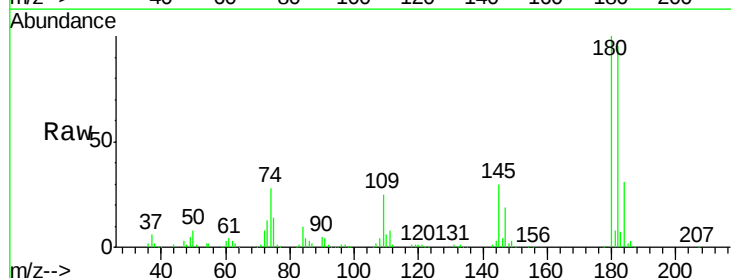


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

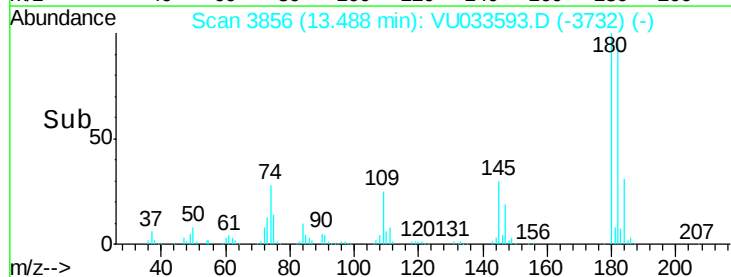
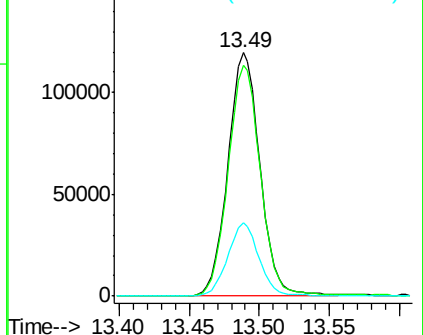


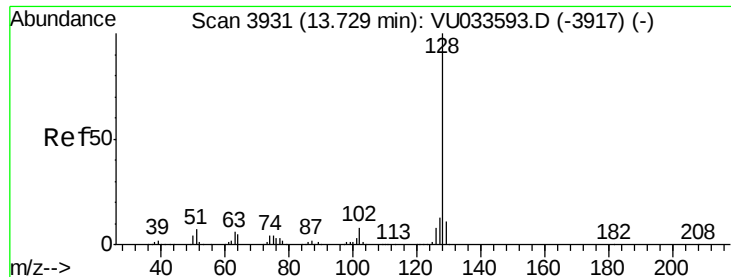
#68
 1,2,4-trichlorobenzene
 Concen: 49.047 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033593.D
 Acq: 05 Aug 2019 11:42

Tgt Ion:180	Resp:	190421
Ion	Ratio	Lower Upper
180	100	
182	95.9	76.7 115.1
145	29.4	23.5 35.3



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: 51.145 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

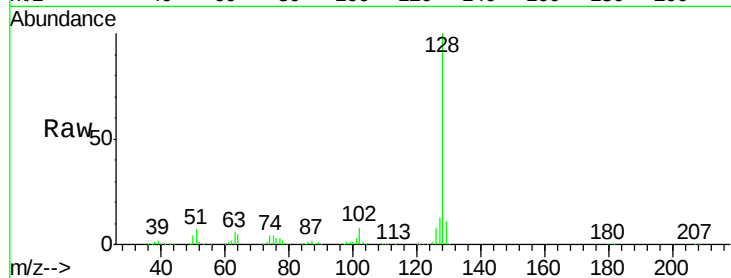
Tot Ion:128 Resp: 576793

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

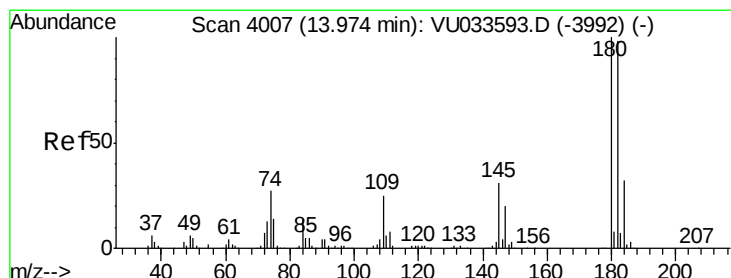
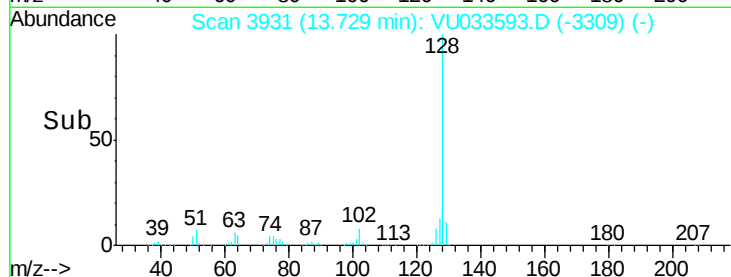
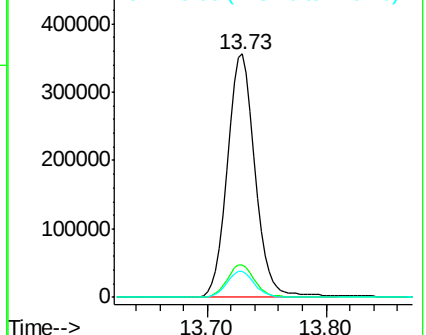
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.167 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033593.D

Acq: 05 Aug 2019 11:42

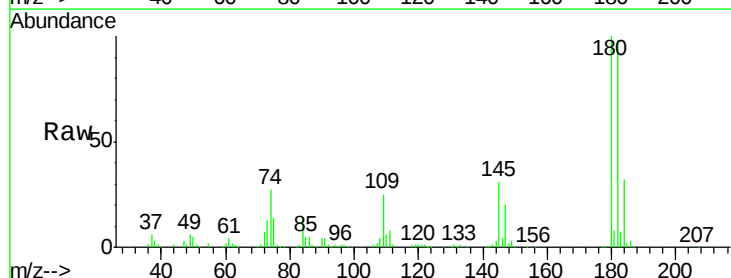
Tgt Ion:180 Resp: 199892

Ion Ratio Lower Upper

180 100

182 96.8 77.4 116.2

145 30.6 24.5 36.7



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

