

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041620\
 Data File : VU037747.D
 Acq On : 16 Apr 2020 12:07
 Operator : JC/MD
 Sample : L2296-03
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89

Quant Time: Apr 17 10:29:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 01:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	258954	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	252399	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	126233	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	92822	4.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.80%
7) Chloroethane-d5	1.93	69	78023	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.40%
11) 1,1-Dichloroethene-d2	2.59	63	133243	3.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.60%
20) 2-Butanone-d5	4.66	46	270283	50.22	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.44%
24) Chloroform-d	5.10	84	146759	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
26) 1,2-Dichloroethane-d4	5.74	65	87349	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.76	84	313402	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.72	67	105571	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.92	98	289123	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
43) trans-1,3-Dichloropropene-	8.20	79	43191	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
46) 2-Hexanone-d5	8.66	63	251877	49.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.72%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	83220	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	107066	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	462985	16.968	ug/L	98
12) 1,1-Dichloroethene	2.60	96	29505	1.651	ug/L #	58
18) trans-1,2-Dichloroethene	3.39	96	7425	0.383	ug/L	76
19) 1,1-Dichloroethane	3.91	63	433550	11.569	ug/L	98
22) cis-1,2-Dichloroethene	4.71	96	724534	34.612	ug/L #	95
29) 1,1,1-Trichloroethane	5.35	97	1094263	35.730	ug/L	99
30) Cyclohexane	5.42	56	704913	18.597	ug/L	97
33) Benzene	5.81	78	12496	0.150	ug/L	100
34) Trichloroethene	6.57	95	3199	0.156	ug/L	89
42) Toluene	8.00	91	3671665	42.032	ug/L	100
51) Chlorobenzene	9.47	112	719031	13.491	ug/L	99
52) Ethylbenzene	9.59	91	812690	8.363	ug/L	98
53) m,p-Xylene	9.71	106	548900	14.923	ug/L	99
54) o-Xylene	10.12	106	284053	7.847	ug/L	100
56) Isopropylbenzene	10.50	105	260145	2.740	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	160639	3.799	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	276565	6.523	ug/L	98

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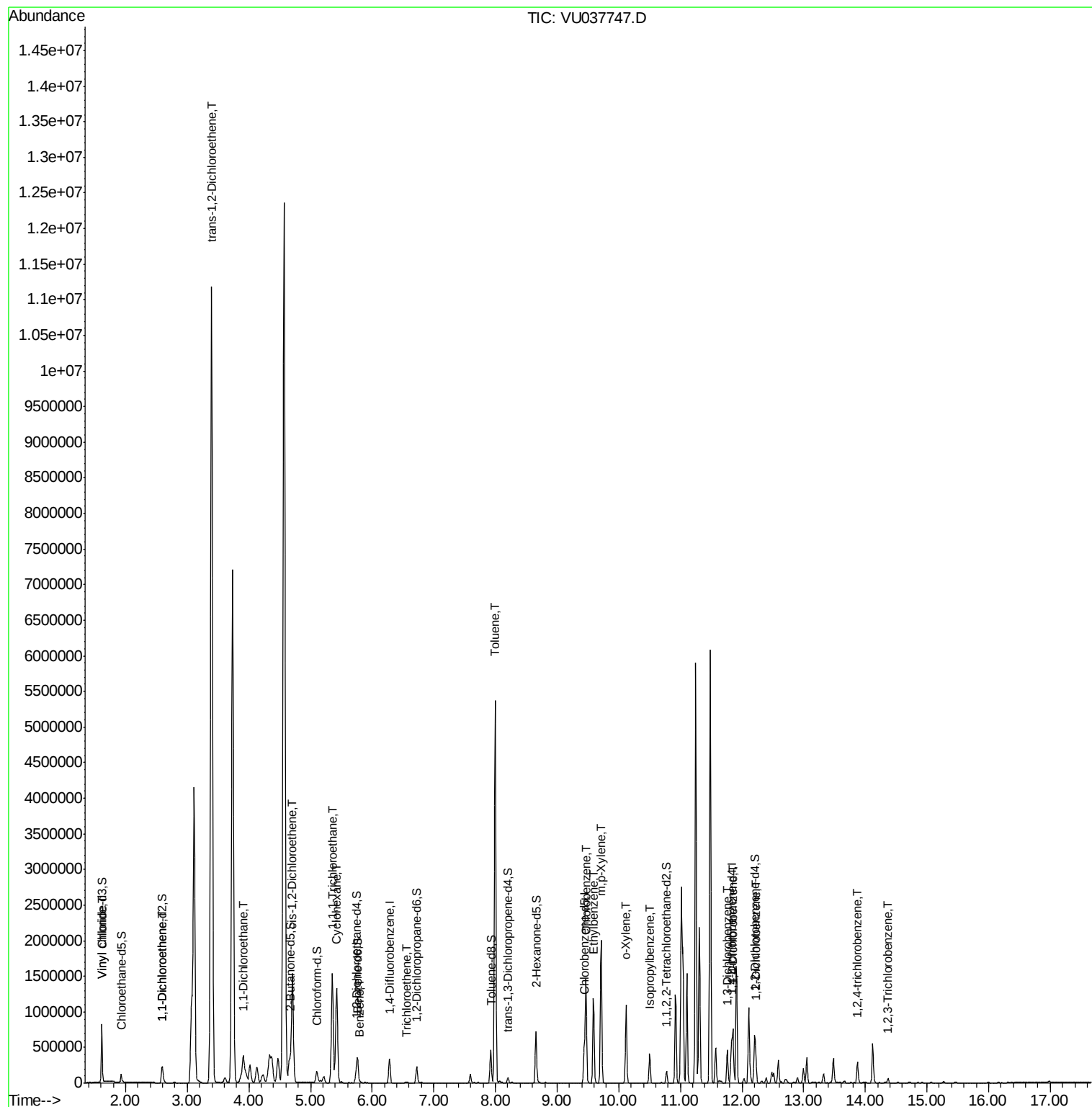
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.23	146	88700	2.229	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	76124	2.675	ug/L	97
70) 1,2,3-Trichlorobenzene	14.37	180	19868	0.784	ug/L	97

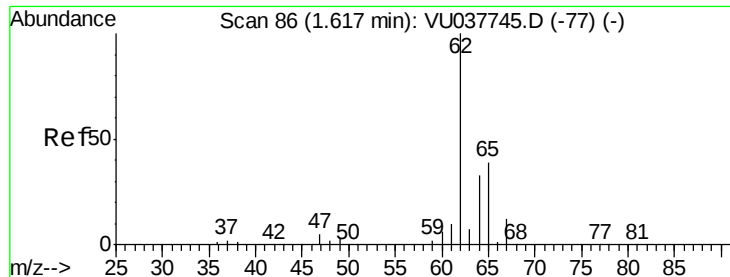
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041620\
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#5

Vinyl chloride

Concen: 16.968 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

Instrument :

MSVOA_U

ClientSampleId :

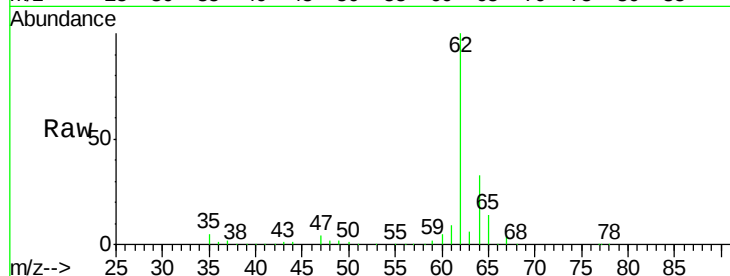
BFS89

Tot Ion: 62 Resp: 462985

Ion Ratio Lower Upper

62 100

64 33.0 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037747.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU037747.D (-1) (-)

1.62

400000

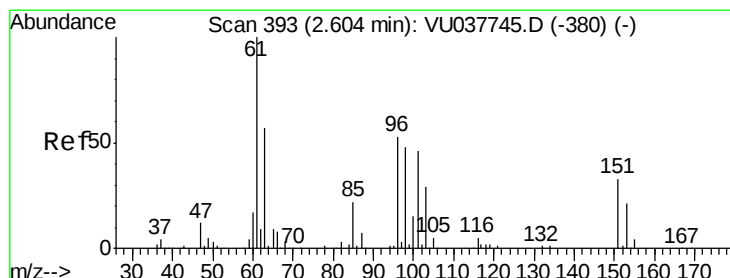
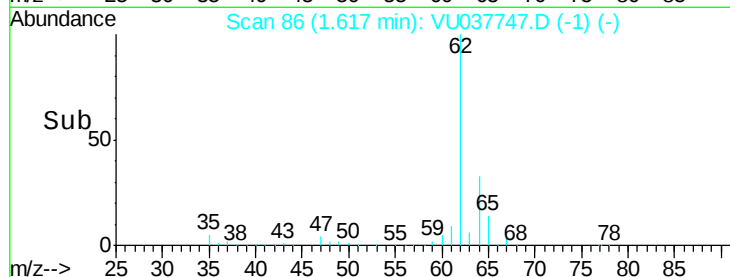
300000

200000

100000

0

Time-->



#12

1,1-Dichloroethene

Concen: 1.651 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

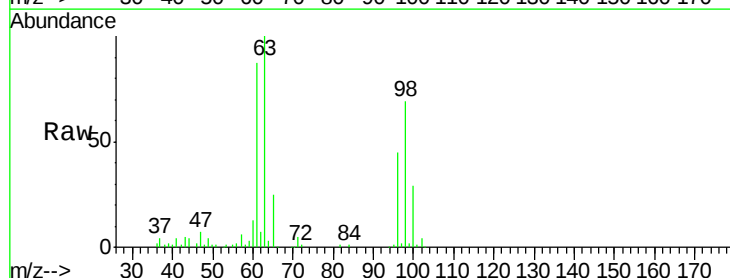
Tgt Ion: 96 Resp: 29505

Ion Ratio Lower Upper

96 100

61 196.0 127.7 237.3

63 224.0 85.0 157.8#



Abundance Ion 96.00 (95.70 to 96.70): VU037747.D (-300) (-)

Ion 61.05 (60.75 to 61.75): VU037747.D (-300) (-)

Ion 63.00 (62.70 to 63.70): VU037747.D (-300) (-)

100000

80000

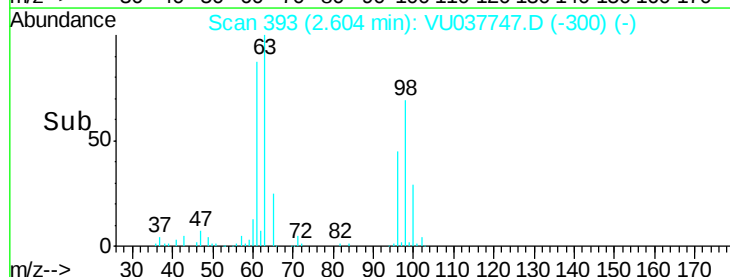
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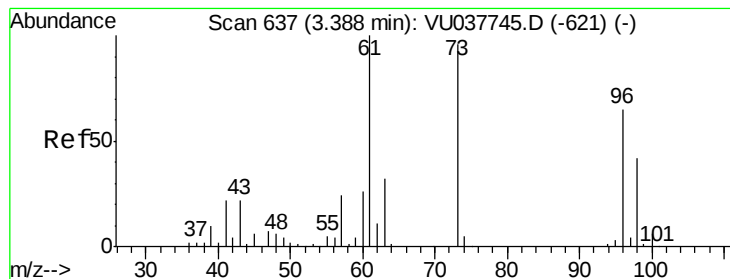
40000

20000

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.383 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

Instrument :

MSVOA_U

ClientSampleId :

BFS89

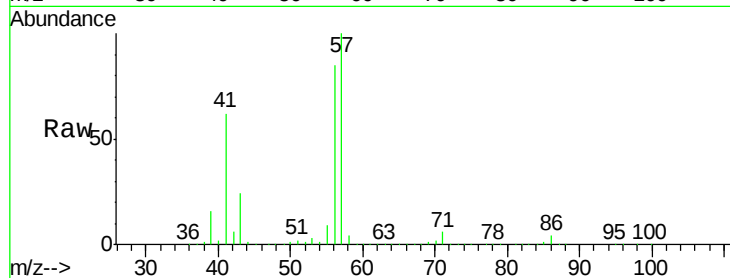
Tot Ion: 96 Resp: 7425

Ion Ratio Lower Upper

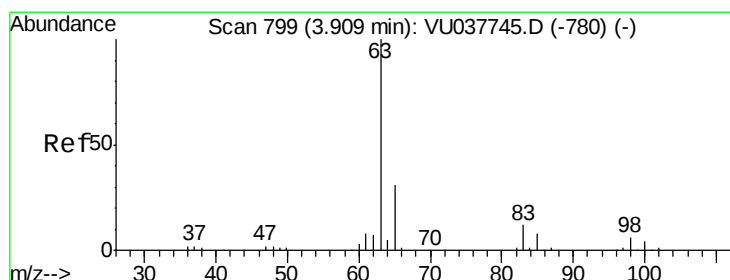
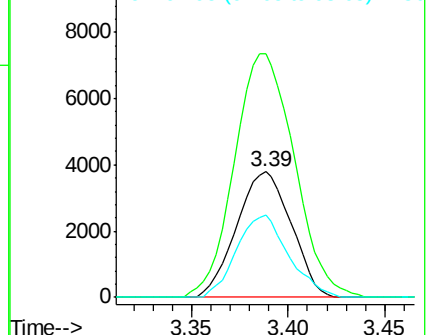
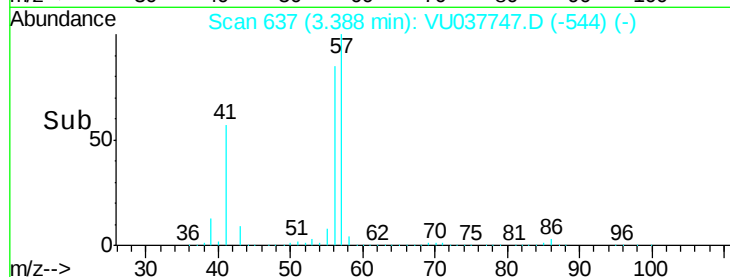
96 100

61 194.3 106.7 198.3

98 65.4 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU037747.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 11.569 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

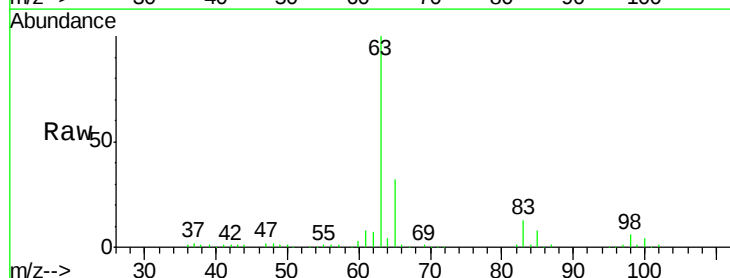
Tgt Ion: 63 Resp: 433550

Ion Ratio Lower Upper

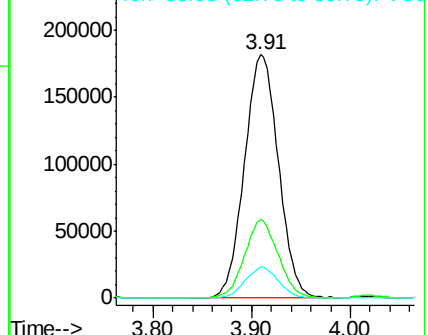
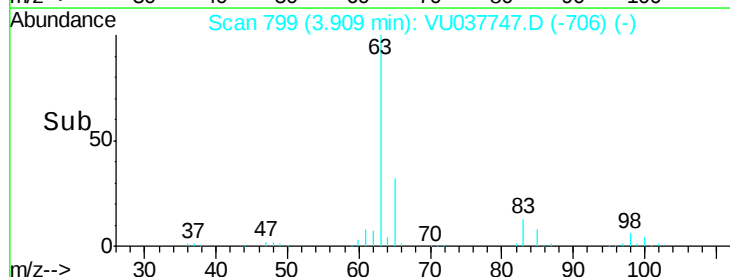
63 100

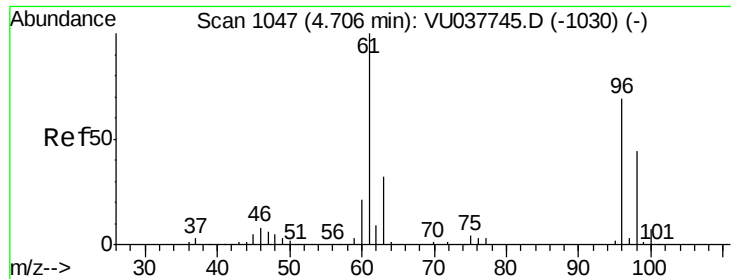
65 32.3 21.6 40.2

83 12.7 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU037747.D (-706) (-)

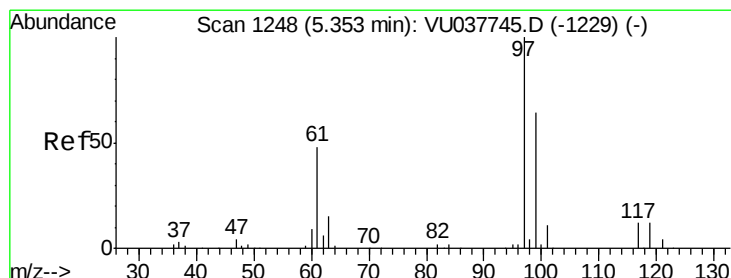
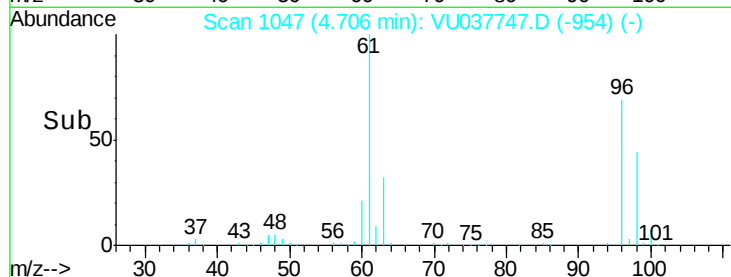
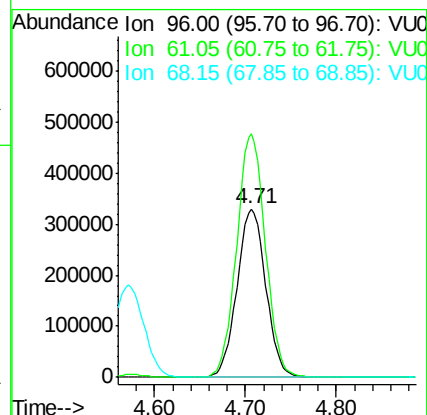
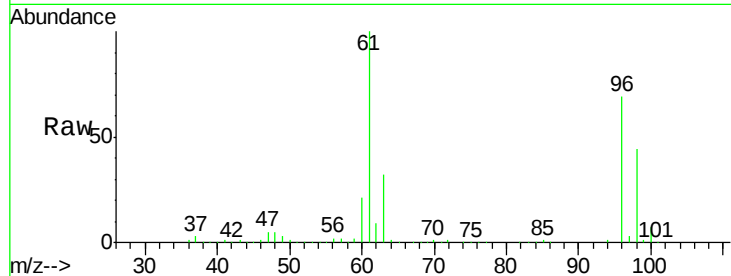




#22
 cis-1,2-Dichloroethene
 Concen: 34.612 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037747.D
 Acq: 16 Apr 2020 12:07

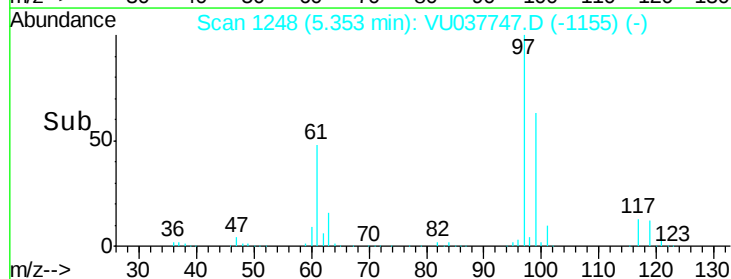
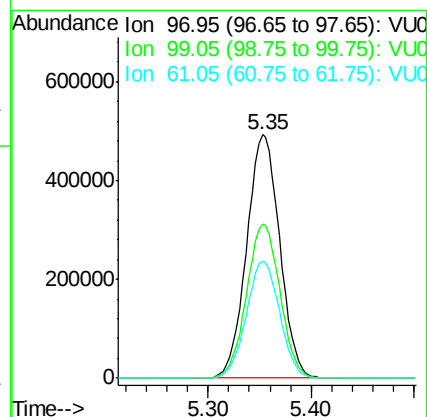
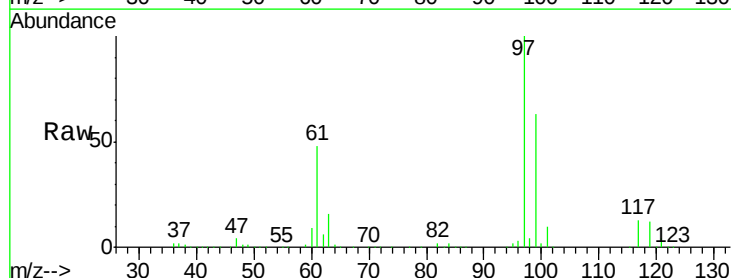
Instrument :
 MSVOA_U
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 BFS89

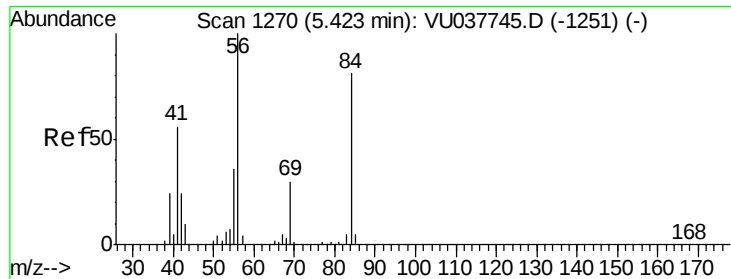
Tot Ion: 96 Resp: 724534
 Ion Ratio Lower Upper
 96 100
 61 144.4 97.0 180.2
 68 0.1 0.0 0.0#



#29
 1,1,1-Trichloroethane
 Concen: 35.730 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037747.D
 Acq: 16 Apr 2020 12:07

Tgt Ion: 97 Resp: 1094263
 Ion Ratio Lower Upper
 97 100
 99 64.0 52.0 78.0
 61 48.4 37.8 56.8

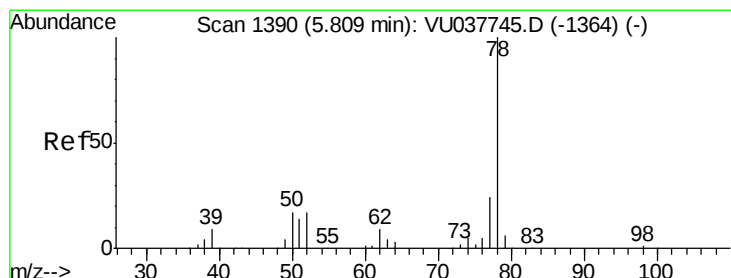
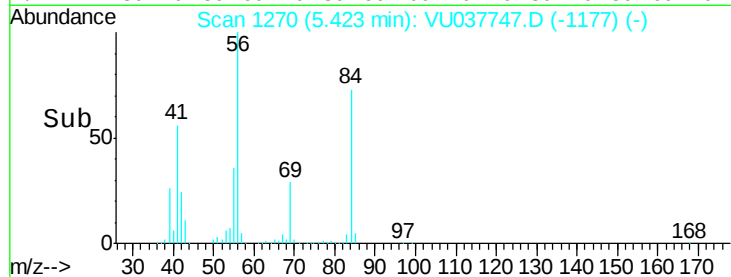
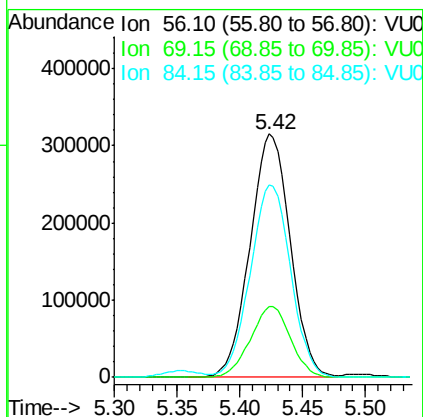
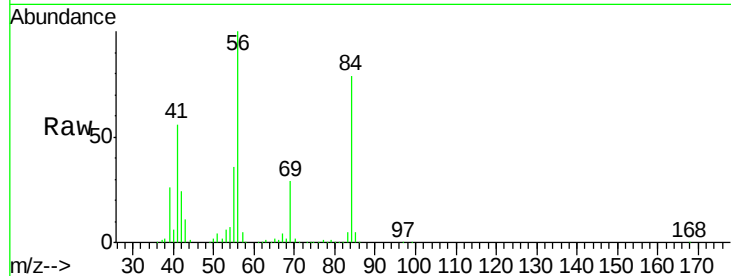




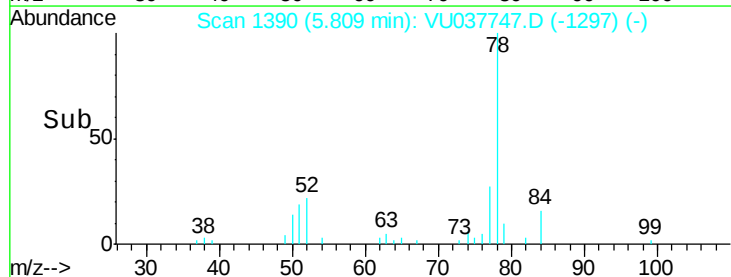
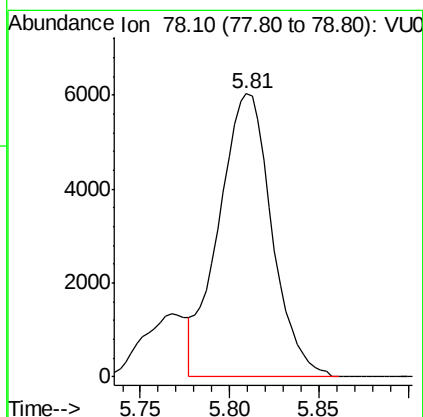
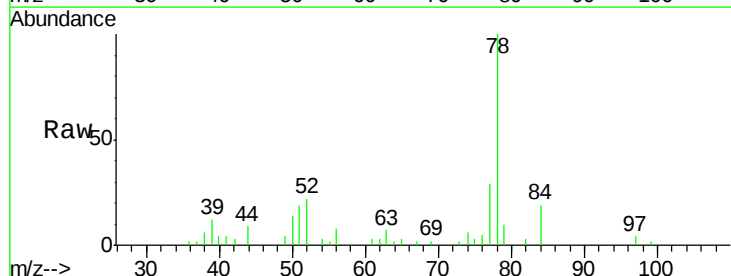
#30
Cyclohexane
Concen: 18.597 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037747.D
Acq: 16 Apr 2020 12:07

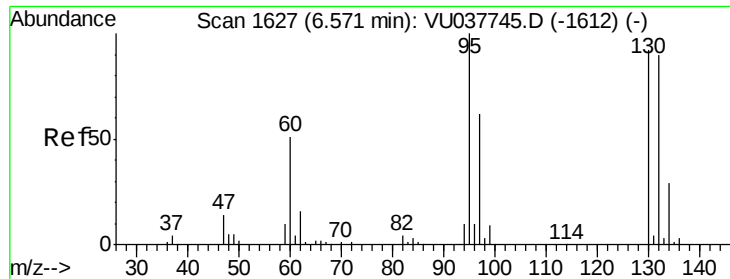
Instrument :
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BFS89

Tot Ion: 56 Resp: 704913
Ion Ratio Lower Upper
56 100
69 28.9 23.9 35.9
84 79.2 65.6 98.4



#33
Benzene
Concen: 0.150 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037747.D
Acq: 16 Apr 2020 12:07
Tgt Ion: 78 Resp: 12496





#34

Trichloroethene

Concen: 0.156 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

Instrument :

MSVOA_U

ClientSampled :

BFS89

Tot Ion: 95 Resp: 3199

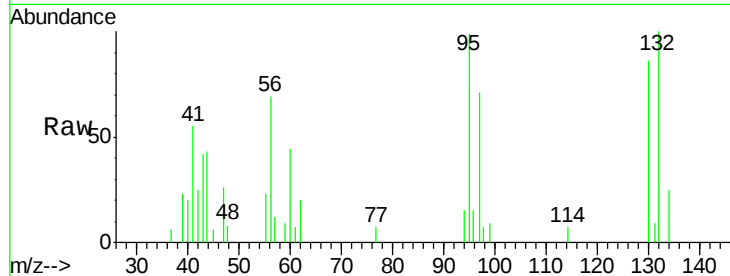
Ion Ratio Lower Upper

95 100

97 72.4 45.4 84.2

132 101.5 63.7 118.3

130 87.5 68.7 127.5

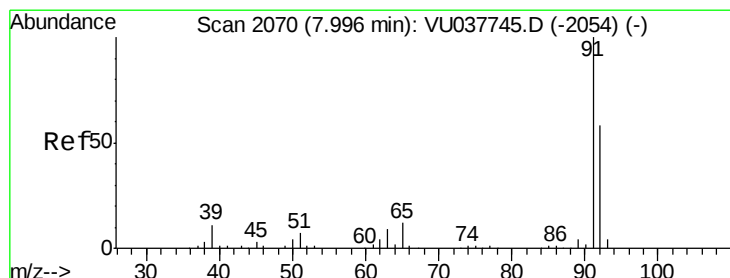
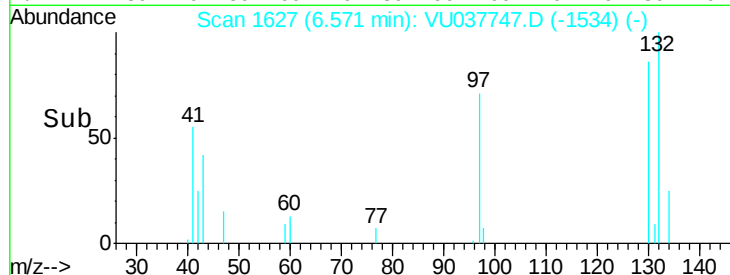
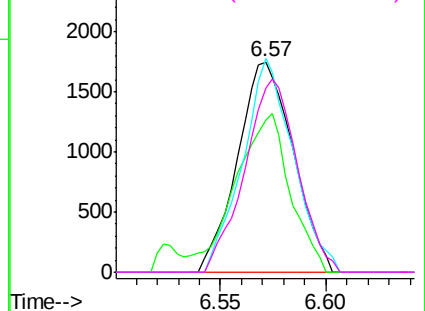


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#42

Toluene

Concen: 42.032 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037747.D

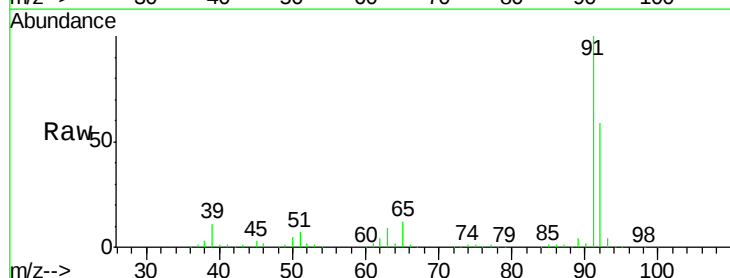
Acq: 16 Apr 2020 12:07

Tgt Ion: 91 Resp: 3671665

Ion Ratio Lower Upper

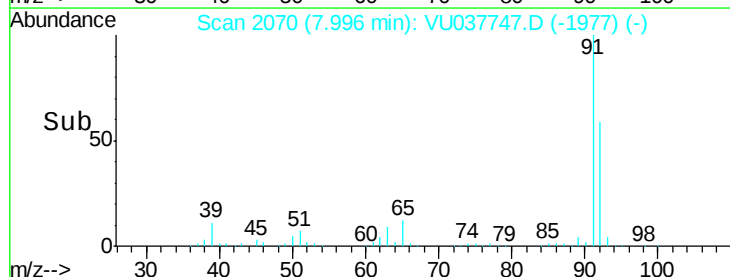
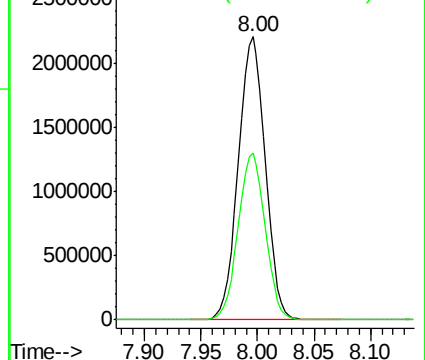
91 100

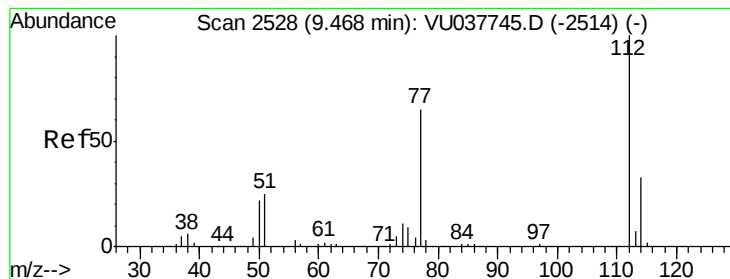
92 59.0 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0





#51

Chlorobenzene

Concen: 13.491 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU037747.D

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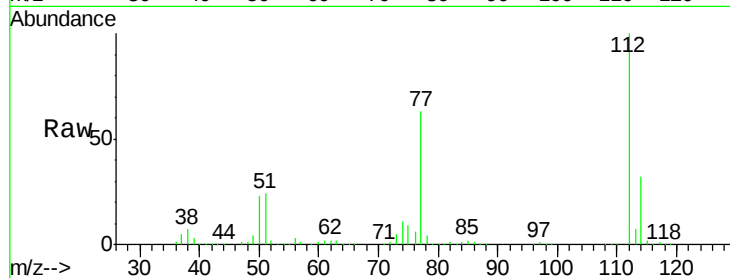
Tot Ion:112 Resp: 719031

Ion Ratio Lower Upper

112 100

114 32.3 22.6 42.0

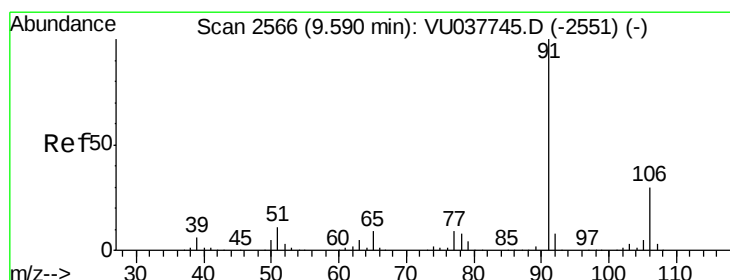
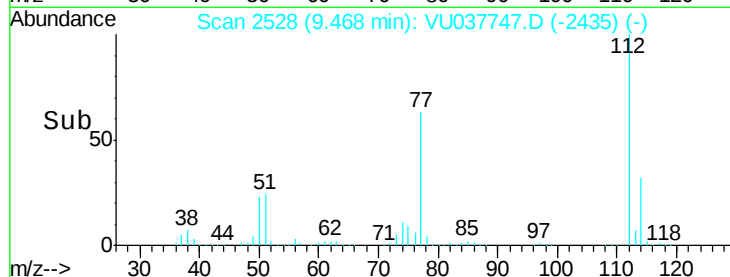
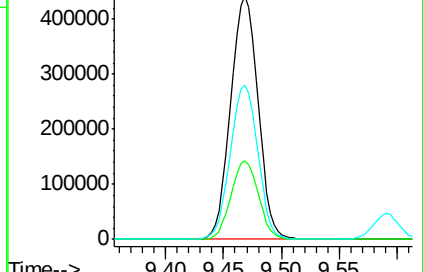
77 63.5 50.2 75.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 8.363 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037747.D

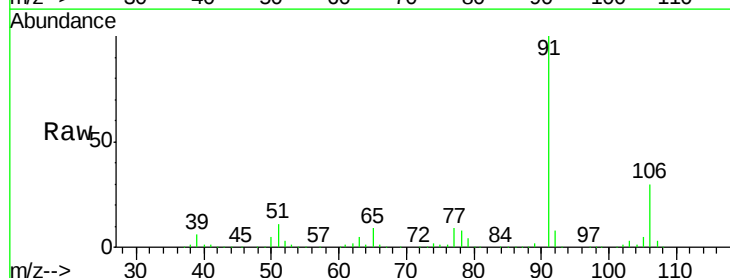
Acq: 16 Apr 2020 12:07

Tgt Ion: 91 Resp: 812690

Ion Ratio Lower Upper

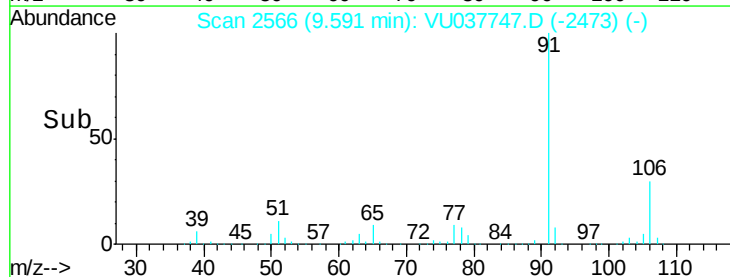
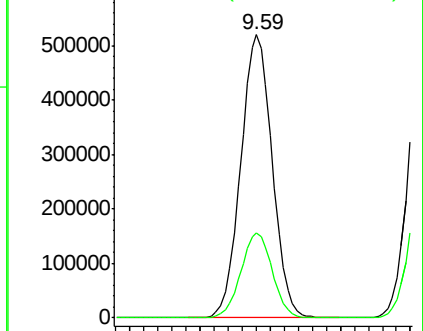
91 100

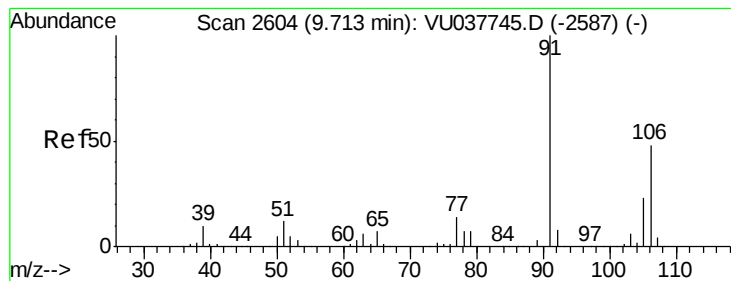
106 30.1 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 14.923 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

Instrument :

MSVOA_U

ClientSampled :

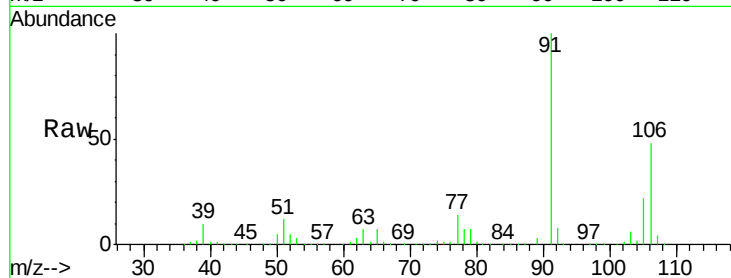
BFS89

Tot Ion:106 Resp: 548900

Ion Ratio Lower Upper

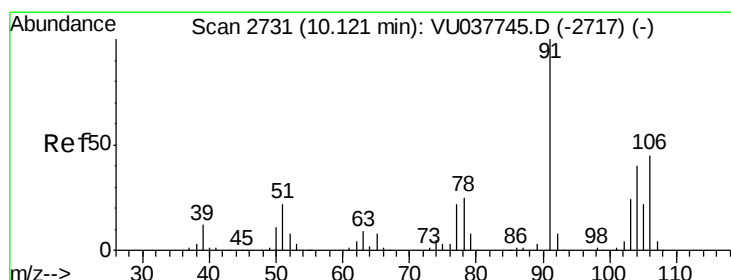
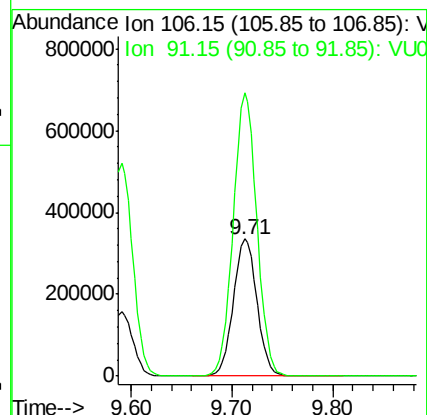
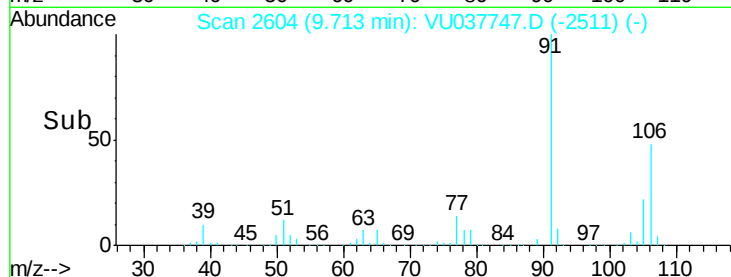
106 100

91 206.7 143.9 267.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 7.847 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037747.D

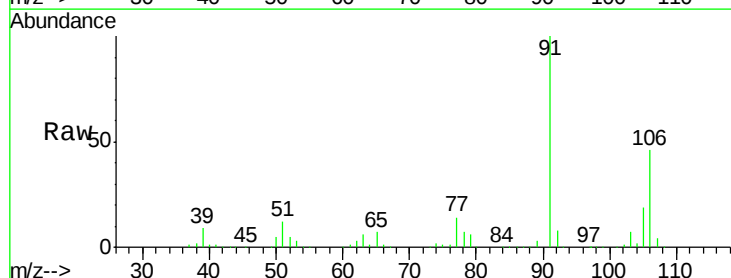
Acq: 16 Apr 2020 12:07

Tgt Ion:106 Resp: 284053

Ion Ratio Lower Upper

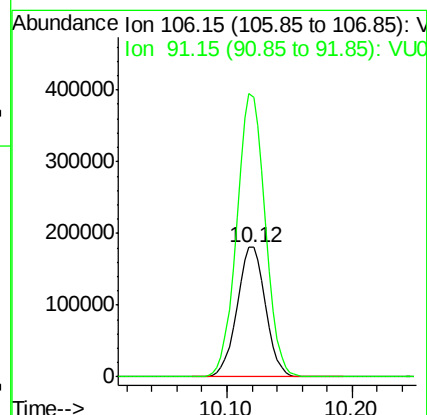
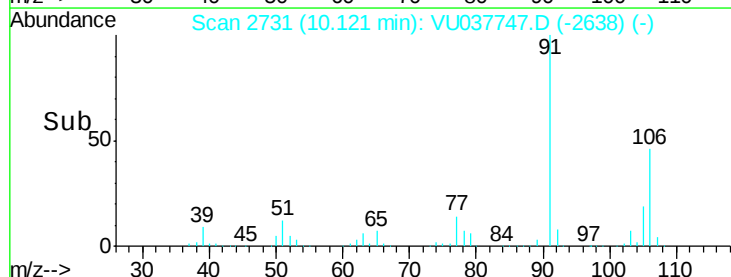
106 100

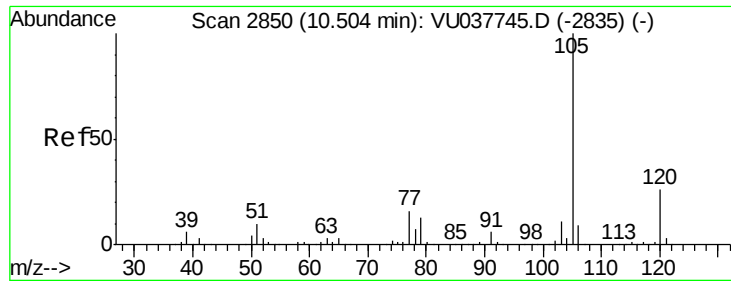
91 216.0 151.1 280.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 2.740 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

Instrument :

MSVOA_U

ClientSampleId :

BFS89

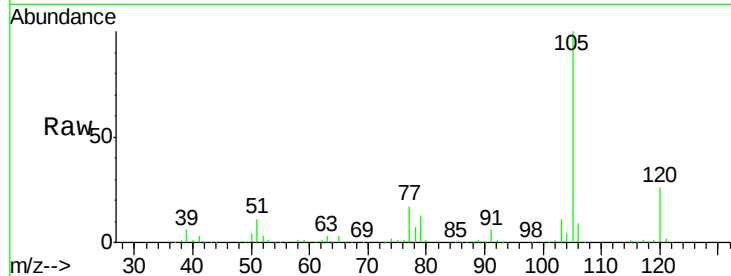
Tot Ion:105 Resp: 260145

Ion Ratio Lower Upper

105 100

120 26.0 20.6 31.0

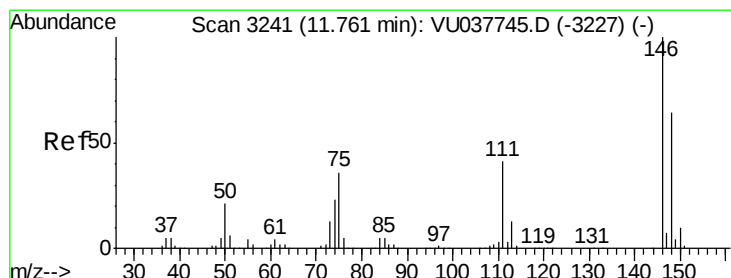
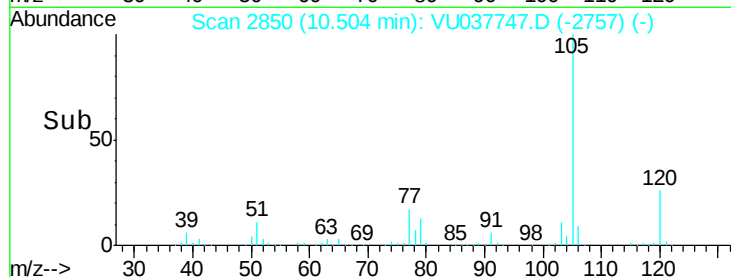
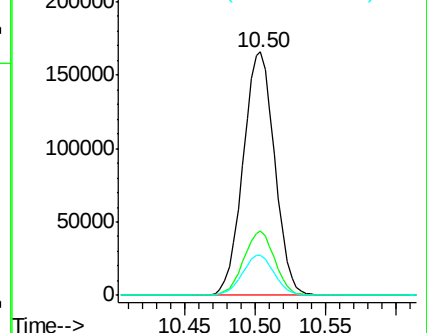
77 16.6 13.2 19.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#62

1,3-Dichlorobenzene

Concen: 3.799 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037747.D

Acq: 16 Apr 2020 12:07

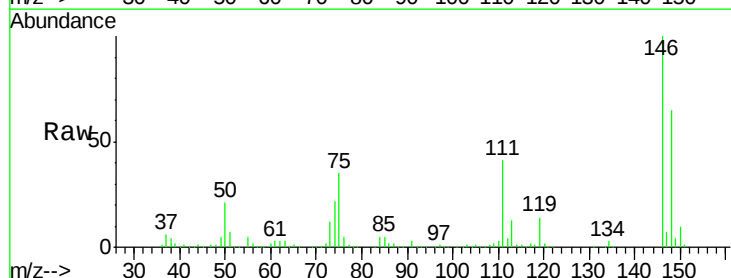
Tgt Ion:146 Resp: 160639

Ion Ratio Lower Upper

146 100

111 41.4 29.8 55.3

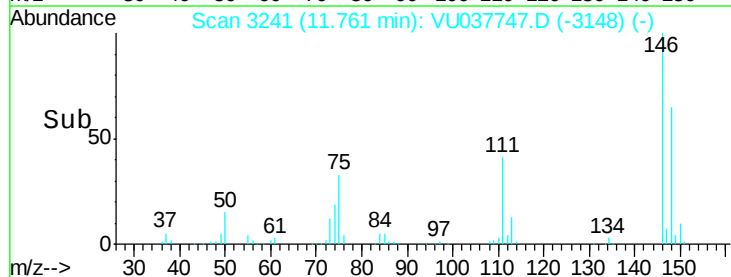
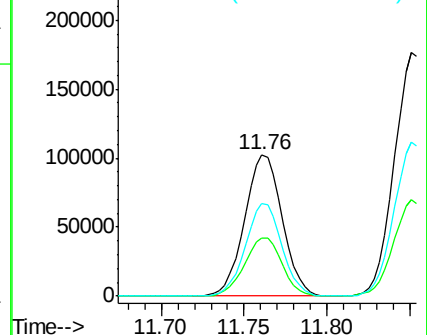
148 65.4 44.5 82.7

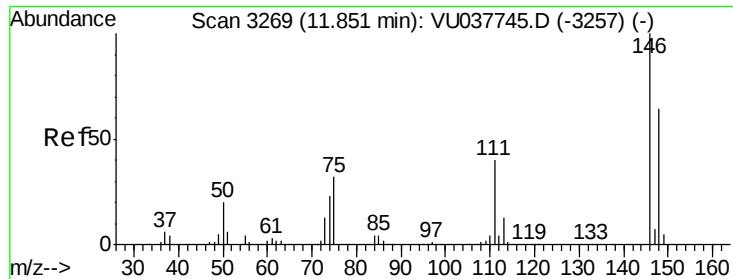


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

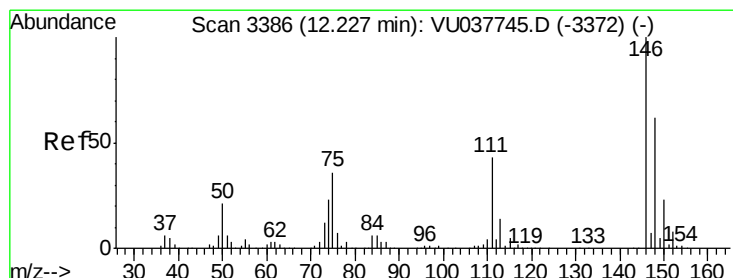
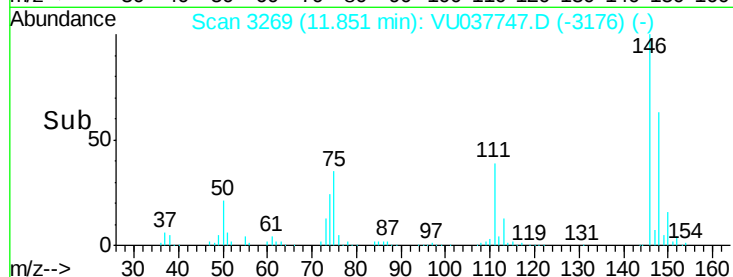
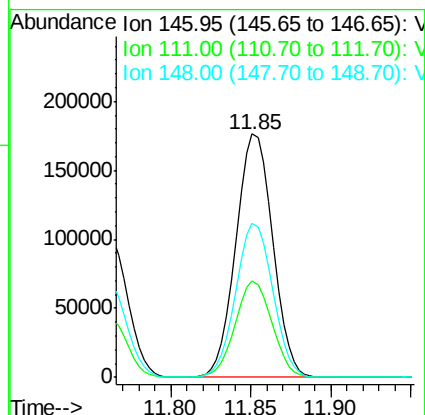
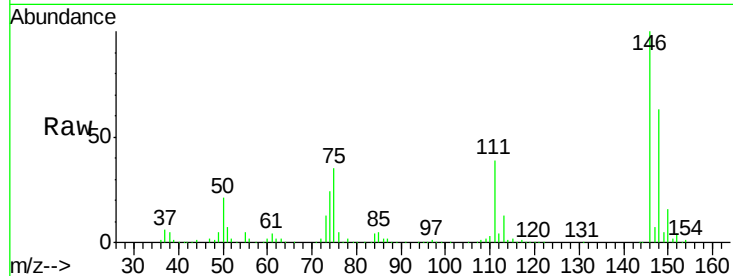




#63
 1,4-Dichlorobenzene
 Concen: 6.523 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037747.D
 Acq: 16 Apr 2020 12:07

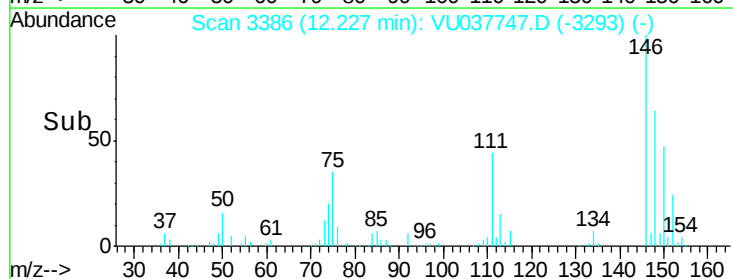
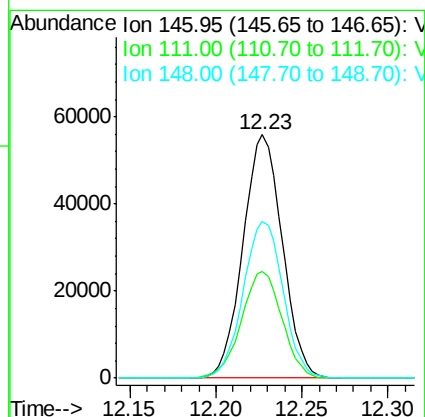
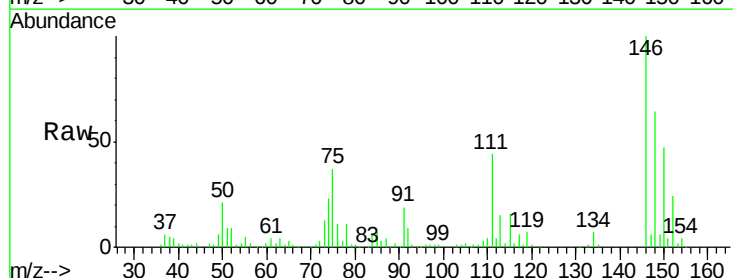
Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89

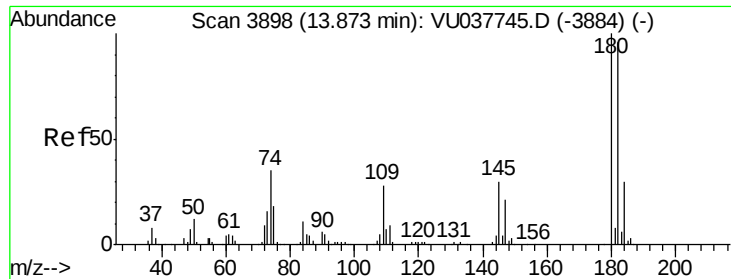
Tot Ion:146 Resp: 276565
 Ion Ratio Lower Upper
 146 100
 111 39.4 28.4 52.8
 148 63.0 44.9 83.3



#65
 1,2-Dichlorobenzene
 Concen: 2.229 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037747.D
 Acq: 16 Apr 2020 12:07

Tgt Ion:146 Resp: 88700
 Ion Ratio Lower Upper
 146 100
 111 43.9 35.0 52.6
 148 64.3 51.5 77.3

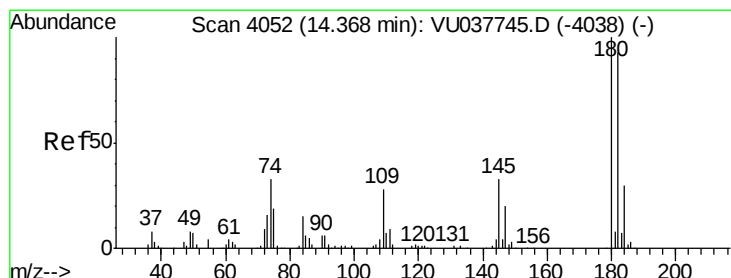
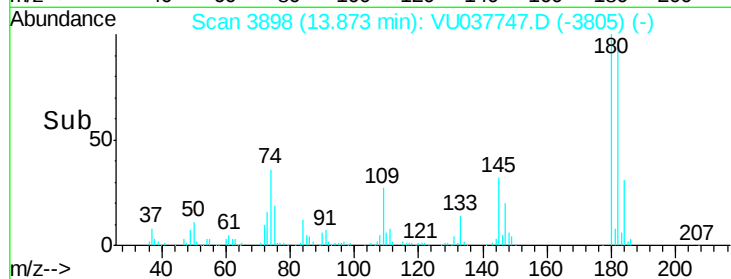
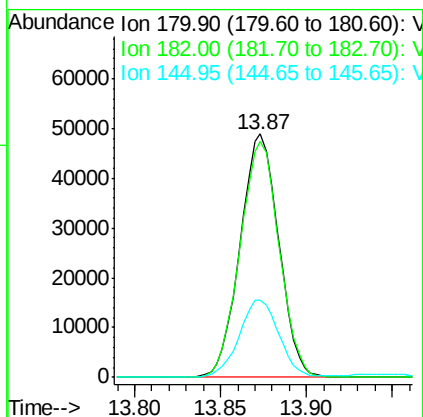
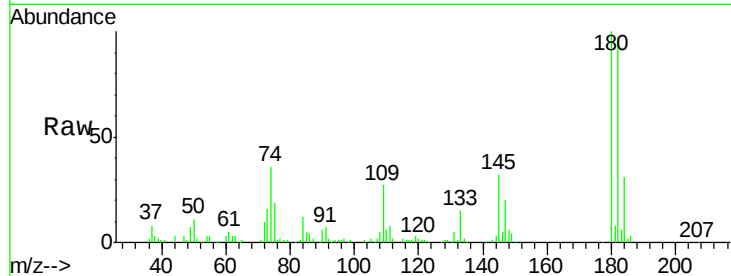




#68
 1,2,4-trichlorobenzene
 Concen: 2.675 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.00 min
 Lab File: VU037747.D
 Acq: 16 Apr 2020 12:07

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89

Tot Ion:180 Resp: 76124
 Ion Ratio Lower Upper
 180 100
 182 98.3 76.4 114.6
 145 33.1 25.1 37.7



#70
 1,2,3-Trichlorobenzene
 Concen: 0.784 ug/L
 RT: 14.37 min Scan# 4052
 Delta R.T. 0.00 min
 Lab File: VU037747.D
 Acq: 16 Apr 2020 12:07

Tgt Ion:180 Resp: 19868
 Ion Ratio Lower Upper
 180 100
 182 97.7 76.6 115.0
 145 36.8 26.7 40.1

