

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101920\
 Data File : VU040795.D
 Acq On : 19 Oct 2020 11:27
 Operator : SY/MD
 Sample : L4354-23
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ43

Quant Time: Oct 20 01:36:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 01:28:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	119404	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	120450	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	52101	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	55128	5.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	111.40%
7) Chloroethane-d5	1.92	69	33835	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	2.58	63	57168	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	4.67	46	192921	60.93	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.86%
24) Chloroform-d	5.08	84	86697	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
26) 1,2-Dichloroethane-d4	5.72	65	53915	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	5.74	84	149372	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.70	67	52273	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.91	98	111837	3.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.80%
43) trans-1,3-Dichloropropene-	8.19	79	17028	3.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.60%
46) 2-Hexanone-d5	8.64	63	121173	51.47	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.94%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	50692	5.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	50095	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	4557	0.450 ug/L #	62
5) Vinyl chloride	1.61	62	2852342	267.711 ug/L	99
8) Chloroethane	2.13	64	1621	0.239 ug/L #	49
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	535	0.054 ug/L #	1
12) 1,1-Dichloroethene	2.59	96	4222	0.496 ug/L #	1
13) Acetone	2.68	43	6030	2.457 ug/L	76
14) Carbon disulfide	2.91	76	16684	0.700 ug/L	96
17) Methyl tert-butyl Ether	3.39	73	3894	0.162 ug/L #	88
18) trans-1,2-Dichloroethene	3.37	96	6531	0.732 ug/L	85
21) 2-Butanone	4.75	43	4342	1.135 ug/L #	53
22) cis-1,2-Dichloroethene	4.69	96	2580039	268.267 ug/L	98
33) Benzene	5.79	78	3000	0.078 ug/L	100
34) Trichloroethene	6.56	95	26510	2.643 ug/L	98
35) Methylcyclohexane	6.70	83	12255	0.862 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	6079	0.564 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1207	0.082 ug/L #	76
42) Toluene	7.98	91	2899	0.074 ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 01:28:45 2020
Response via : Initial Calibration

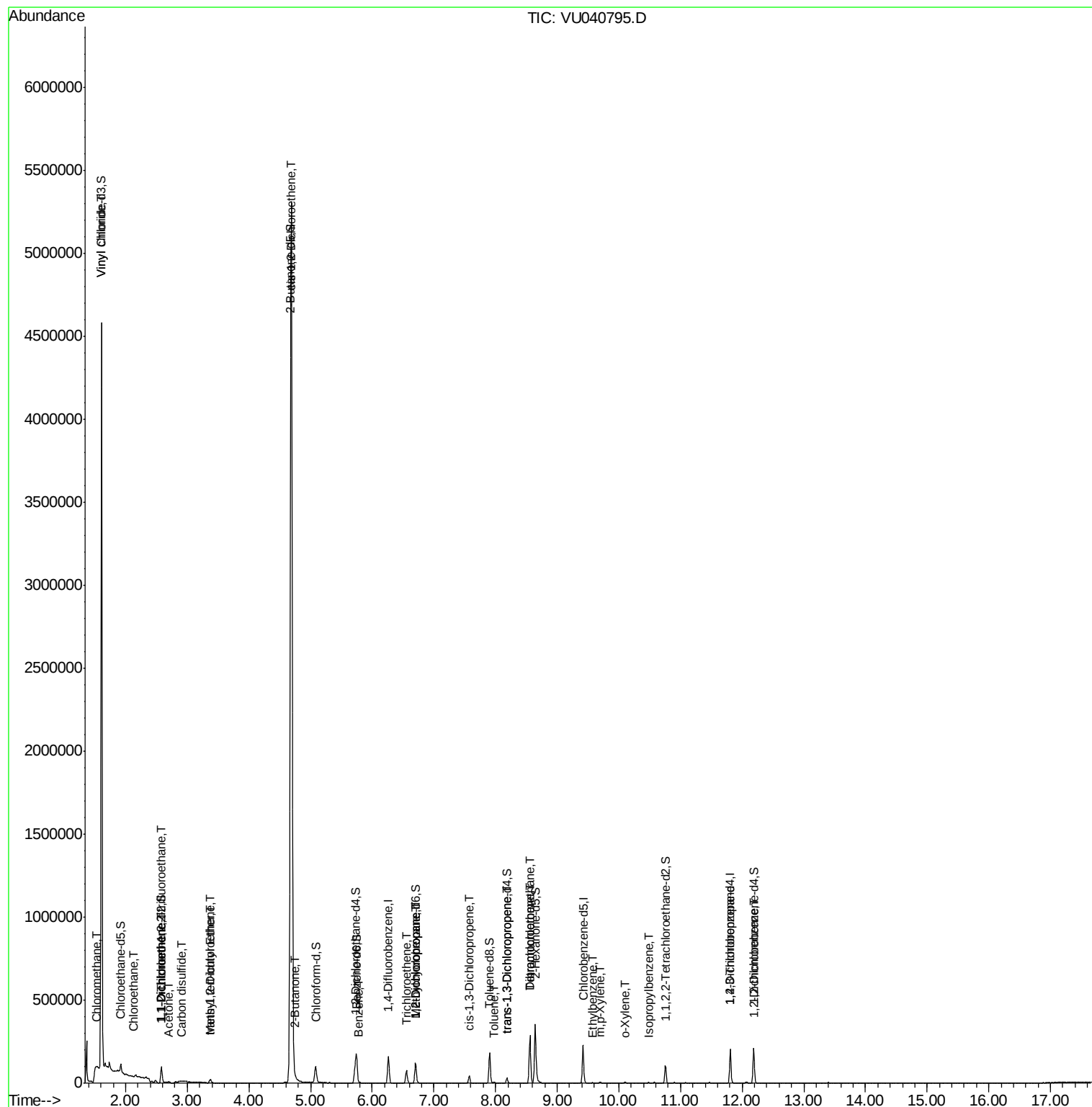
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.18	75	934	0.069	ug/L #	79
47) Tetrachloroethene	8.56	164	61180	8.549	ug/L	96
49) Dibromochloromethane	8.56	129	58342	6.279	ug/L #	9
52) Ethylbenzene	9.57	91	1952	0.046	ug/L	97
53) m,p-Xylene	9.70	106	2442	0.157	ug/L	78
54) o-Xylene	10.11	106	1185	0.079	ug/L	91
56) Isopropylbenzene	10.48	105	2451	0.061	ug/L	99
59) 1,2,3-Trichloropropane	11.81	75	7397	0.934	ug/L	98
65) 1,2-Dichlorobenzene	12.21	146	2519	0.151	ug/L	92

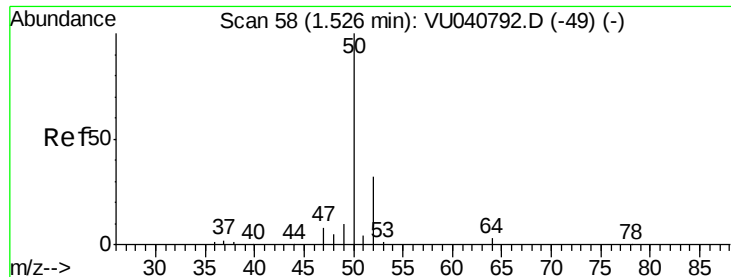
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.450 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

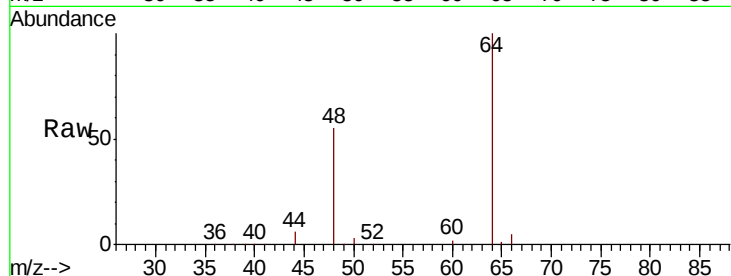
ETZ43

Tot Ion: 50 Resp: 4557

Ion Ratio Lower Upper

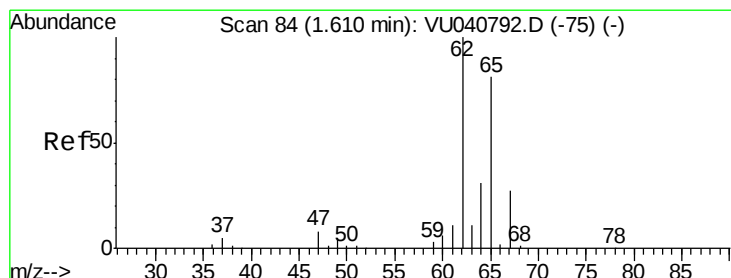
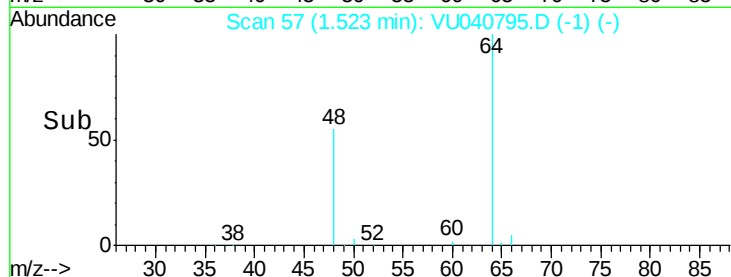
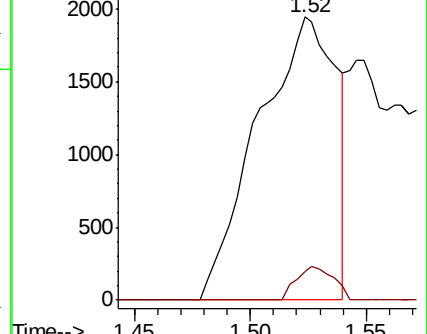
50 100

52 10.1 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 267.711 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040795.D

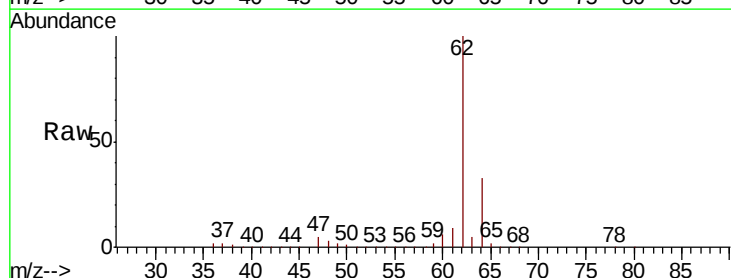
Acq: 19 Oct 2020 11:27

Tgt Ion: 62 Resp: 2852342

Ion Ratio Lower Upper

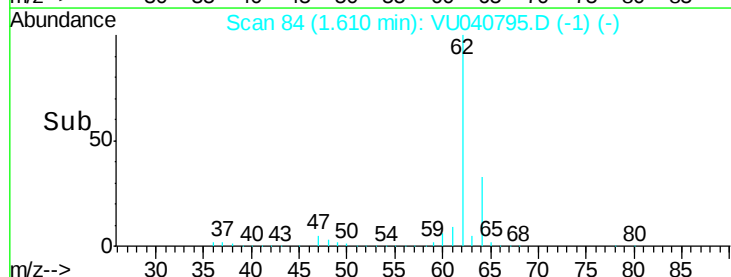
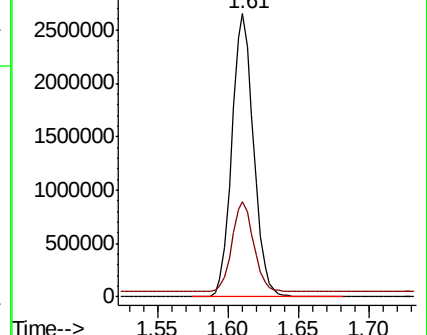
62 100

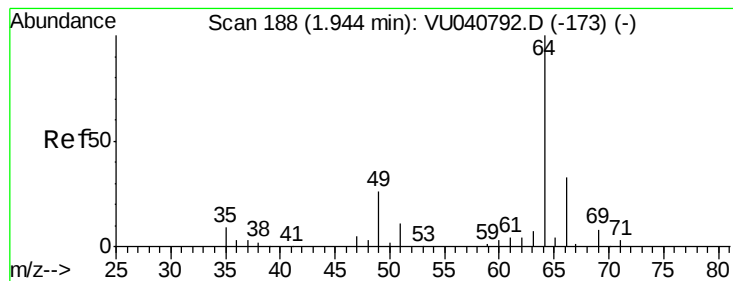
64 33.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.239 ug/L

RT: 2.13 min Scan# 245

Delta R.T. 0.18 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

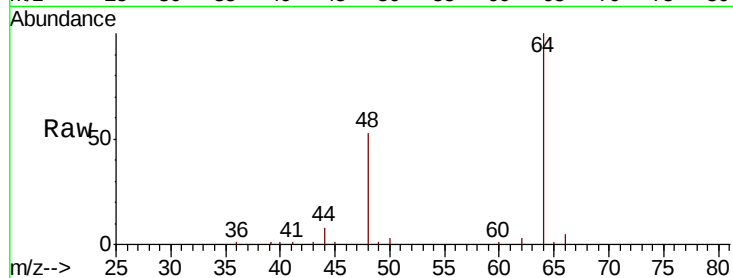
ETZ43

Tot Ion: 64 Resp: 1621

Ion Ratio Lower Upper

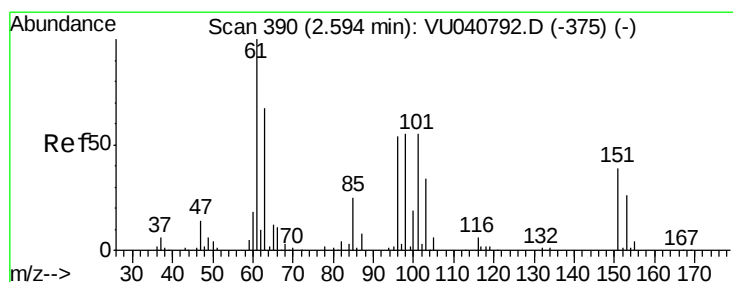
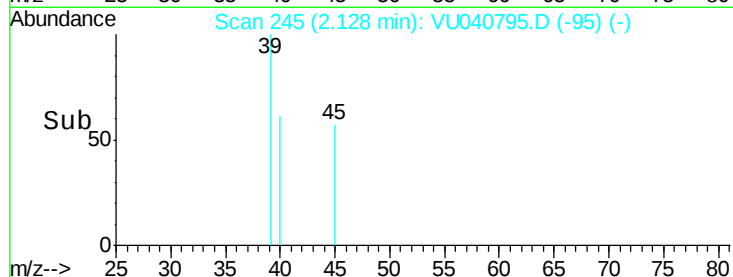
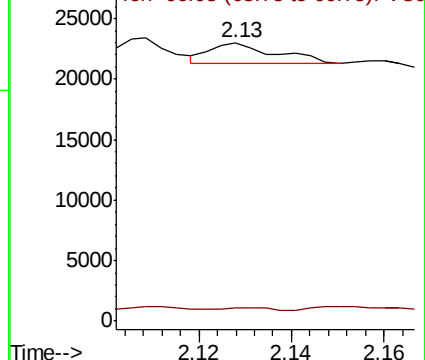
64 100

66 4.6 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#10

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

Concen: 0.054 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

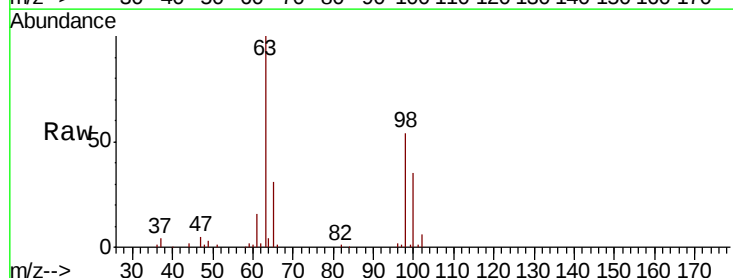
Tgt Ion:101 Resp: 535

Ion Ratio Lower Upper

101 100

85 152.7 36.7 55.1#

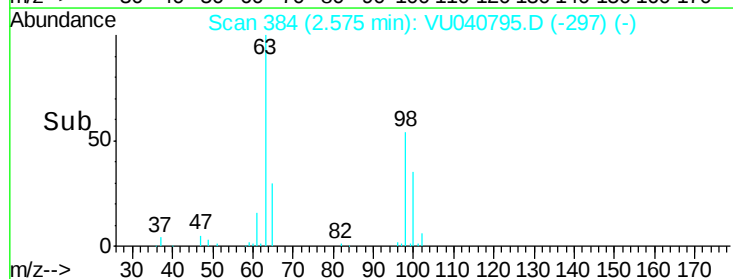
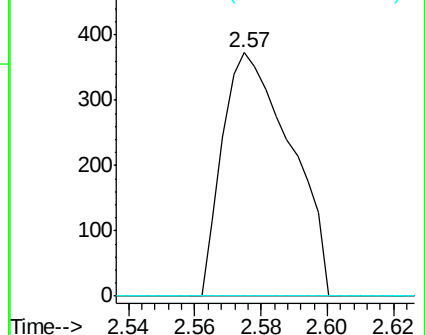
151 0.0 58.0 87.0#

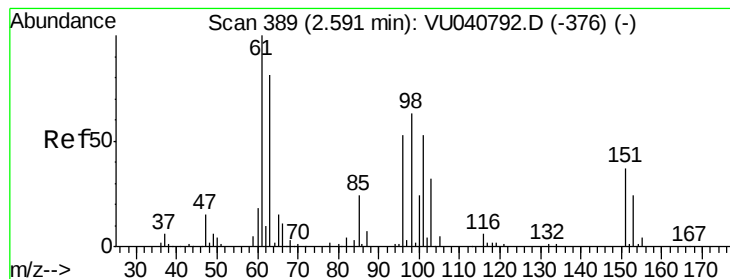


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 0.496 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

ETZ43

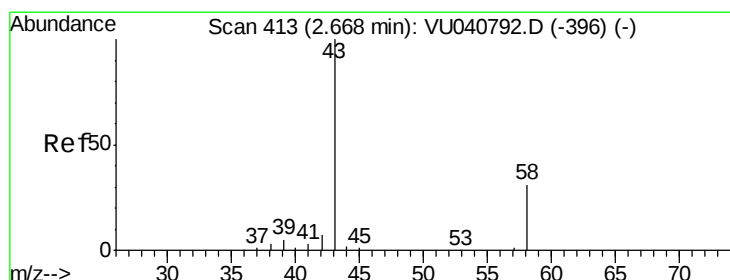
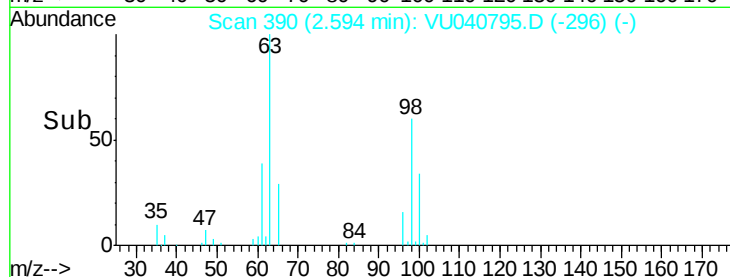
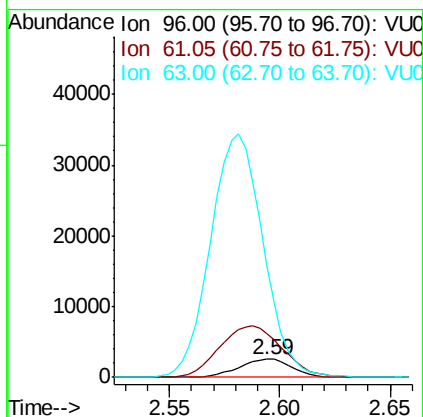
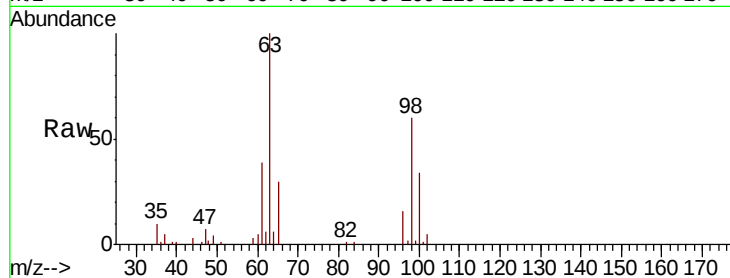
Tot Ion: 96 Resp: 4222

Ion Ratio Lower Upper

96 100

61 247.2 128.8 239.2#

63 632.5 84.6 157.2#



#13

Acetone

Concen: 2.457 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.02 min

Lab File: VU040795.D

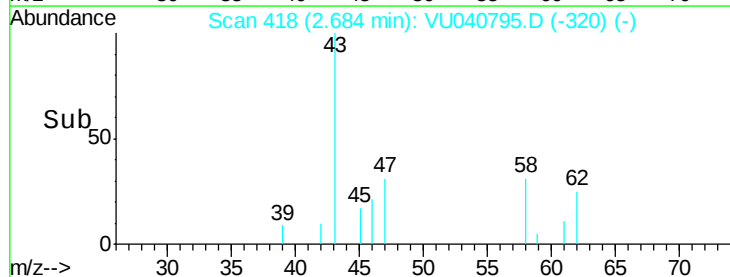
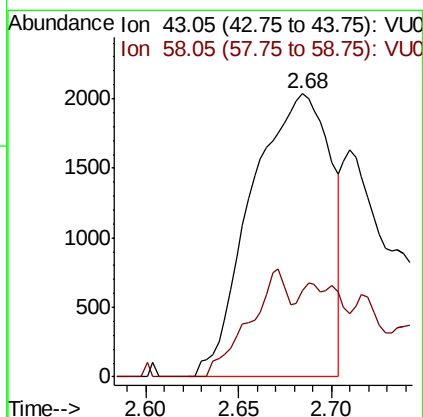
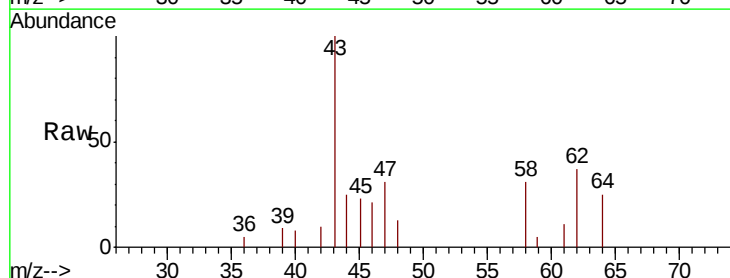
Acq: 19 Oct 2020 11:27

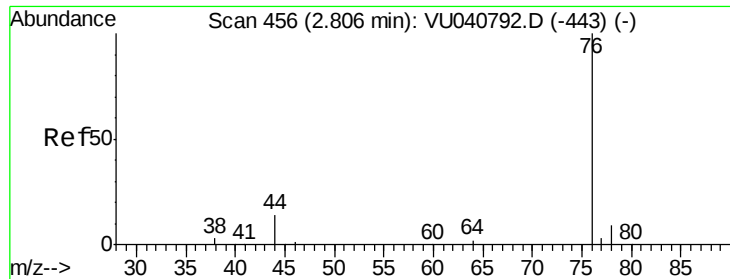
Tgt Ion: 43 Resp: 6030

Ion Ratio Lower Upper

43 100

58 17.3 0.0 60.6





#14

Carbon disulfide

Concen: 0.700 ug/L

RT: 2.91 min Scan# 489

Delta R.T. 0.11 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

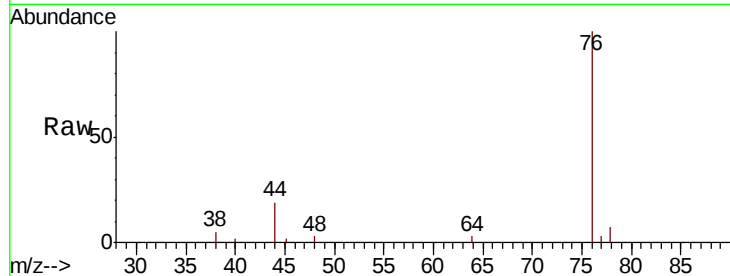
ETZ43

Tot Ion: 76 Resp: 16684

Ion Ratio Lower Upper

76 100

78 7.1 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040795.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU040795.D (-443) (-)

2.91

8000

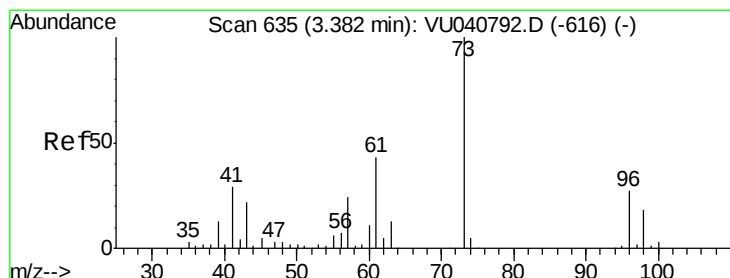
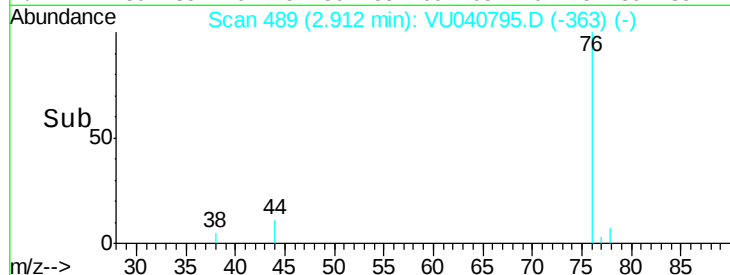
6000

4000

2000

0

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.162 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

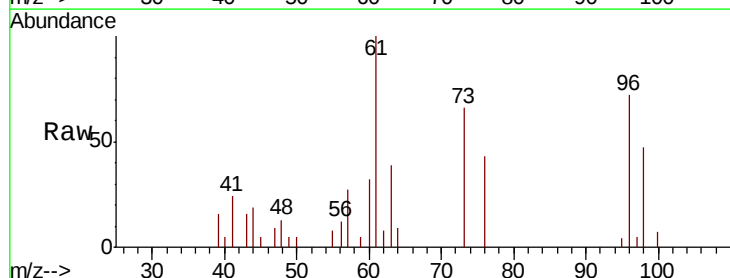
Tgt Ion: 73 Resp: 3894

Ion Ratio Lower Upper

73 100

43 25.3 18.2 27.4

57 32.3 18.6 28.0#



Abundance Ion 73.10 (72.80 to 73.80): VU040795.D (-542) (-)

Ion 43.05 (42.75 to 43.75): VU040795.D (-542) (-)

Ion 57.10 (56.80 to 57.80): VU040795.D (-542) (-)

3.39

2000

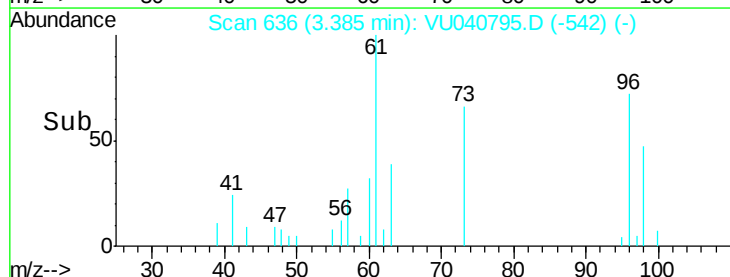
1500

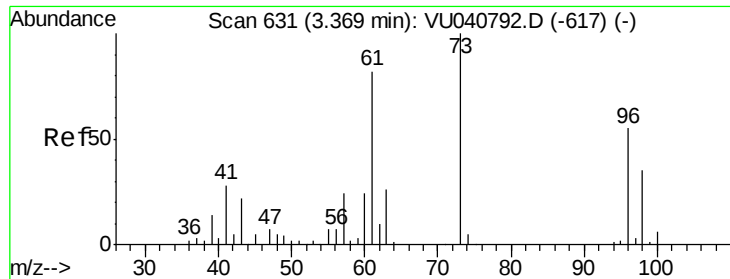
1000

500

0

Time-->

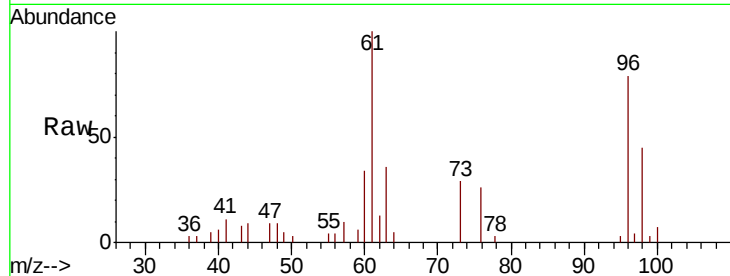




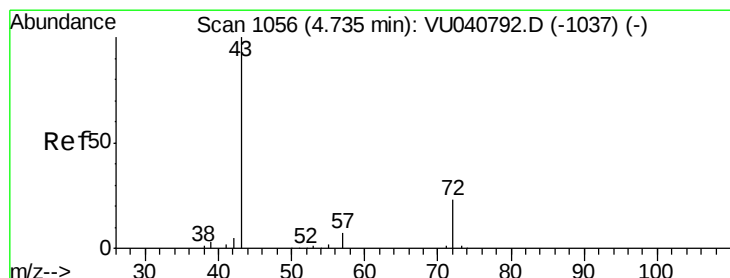
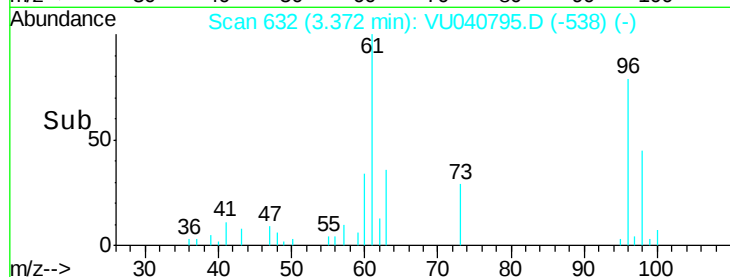
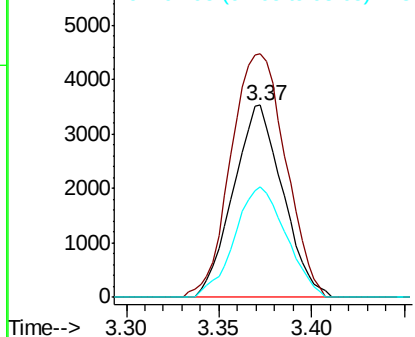
#18
trans-1,2-Dichloroethene
Concen: 0.732 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040795.D
Acq: 19 Oct 2020 11:27

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Tot Ion: 96 Resp: 6531
Ion Ratio Lower Upper
96 100
61 126.9 105.9 196.7
98 57.6 43.8 81.3

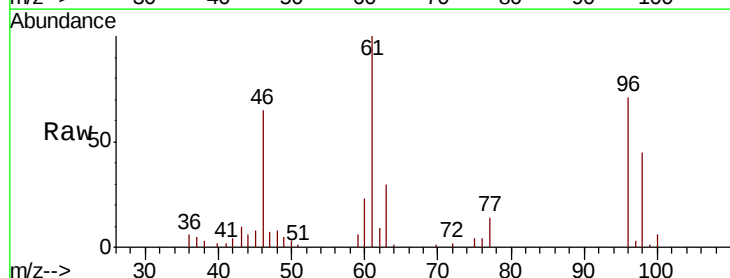


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

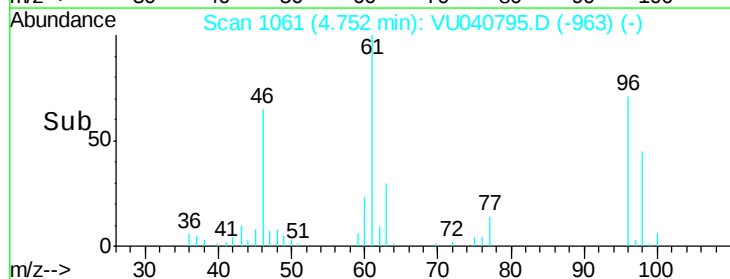
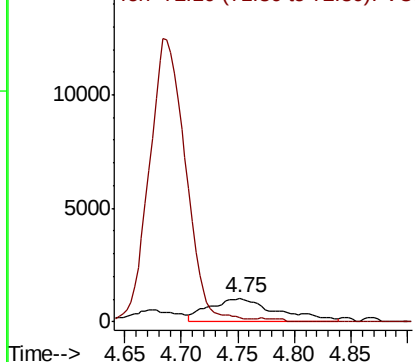


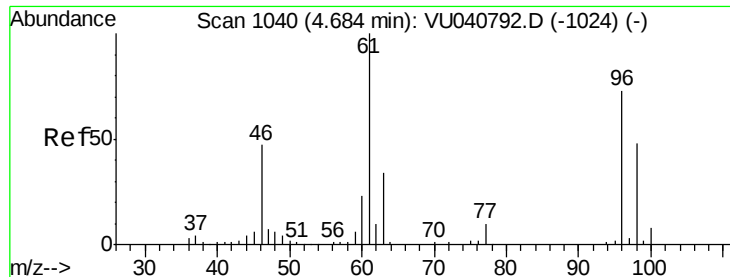
#21
2-Butanone
Concen: 1.135 ug/L
RT: 4.75 min Scan# 1061
Delta R.T. 0.02 min
Lab File: VU040795.D
Acq: 19 Oct 2020 11:27

Tgt Ion: 43 Resp: 4342
Ion Ratio Lower Upper
43 100
72 0.0 11.4 34.2#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 268.267 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

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ClientSampleId :

ETZ43

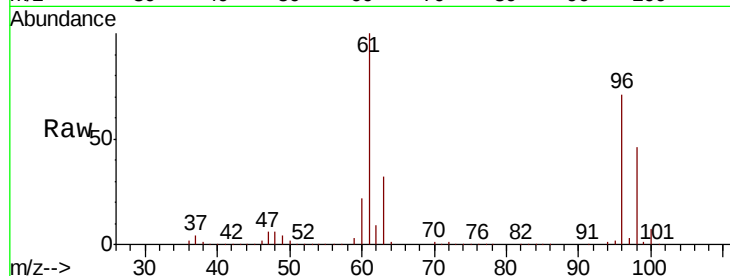
Tot Ion: 96 Resp: 2580039

Ion Ratio Lower Upper

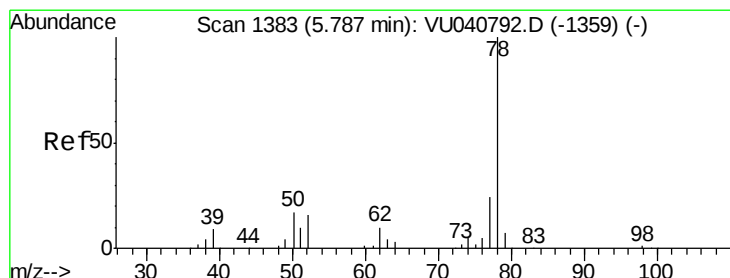
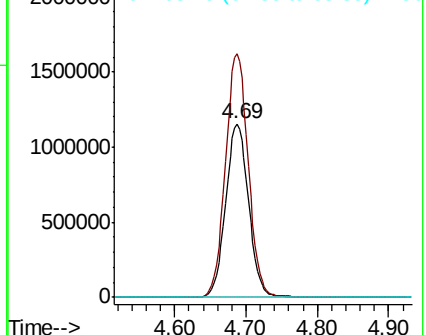
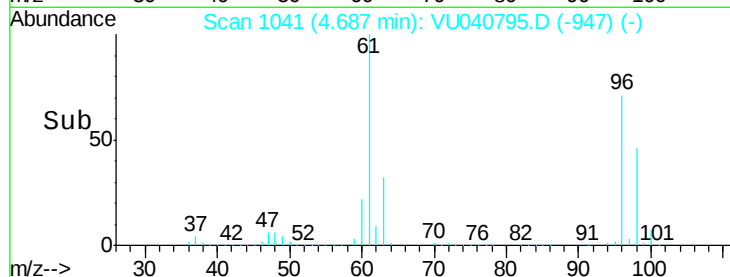
96 100

61 140.5 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040795.D (-947) (-)



#33

Benzene

Concen: 0.078 ug/L

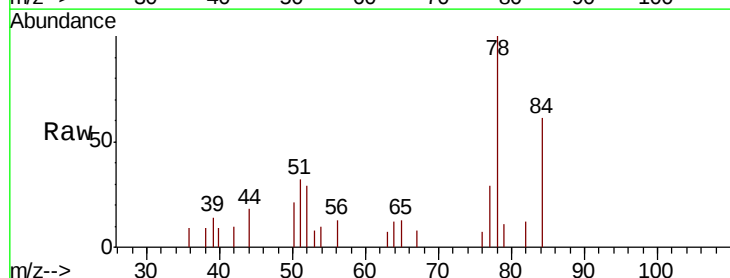
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

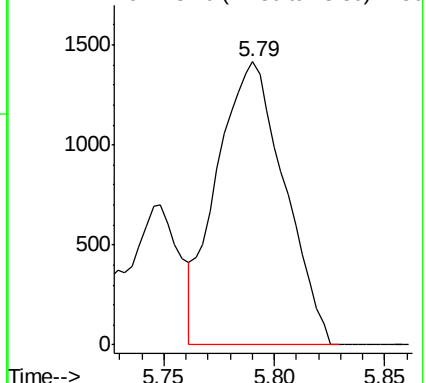
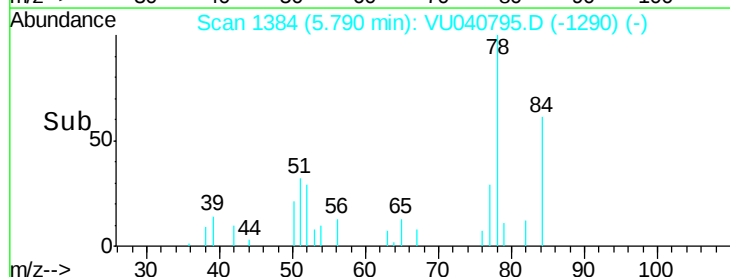
Lab File: VU040795.D

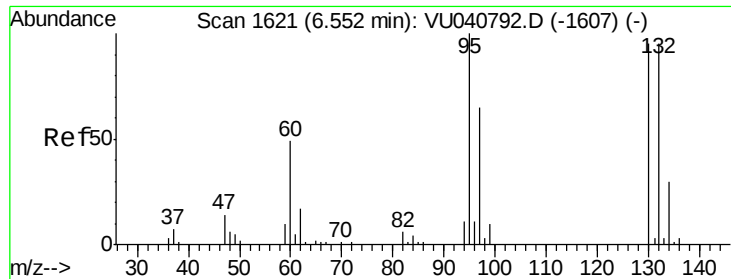
Acq: 19 Oct 2020 11:27

Tgt Ion: 78 Resp: 3000



Abundance Ion 78.10 (77.80 to 78.80): VU040795.D (-1290) (-)

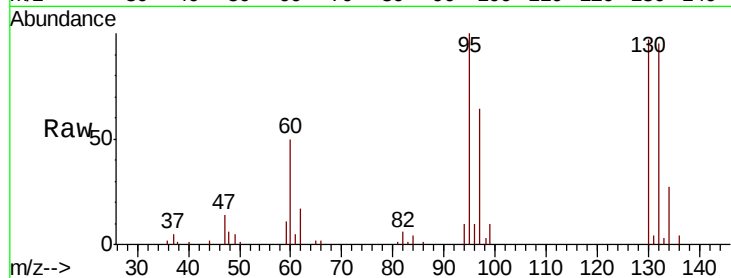




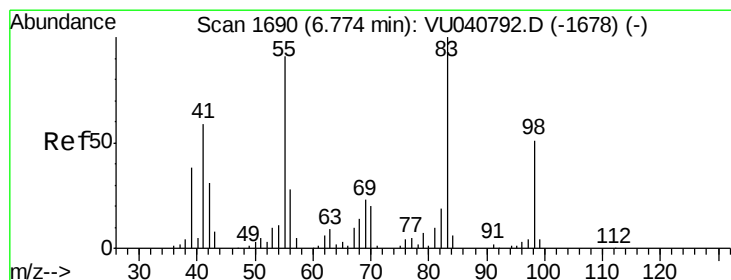
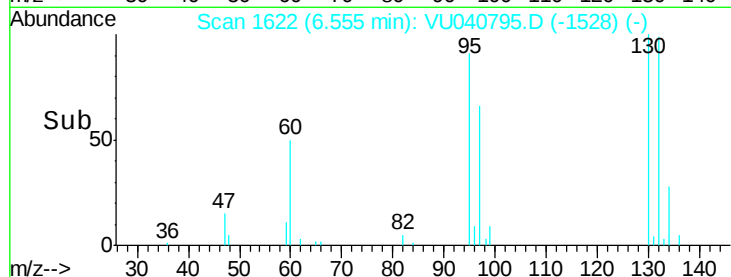
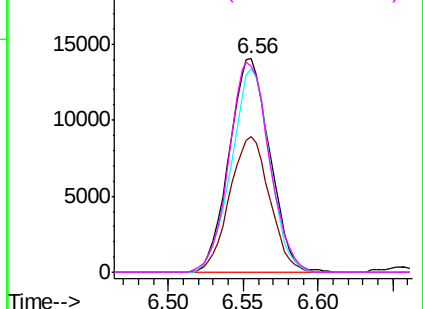
#34
 Trichloroethene
 Concen: 2.643 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040795.D
 Acq: 19 Oct 2020 11:27

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ43

Tot Ion: 95 Resp: 26510
 Ion Ratio Lower Upper
 95 100
 97 63.6 45.5 84.5
 132 95.4 67.5 125.4
 130 96.7 69.9 129.9

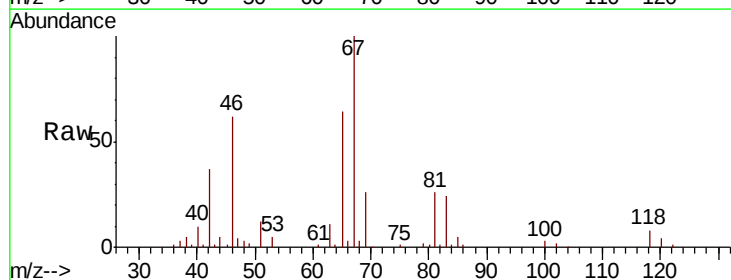


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

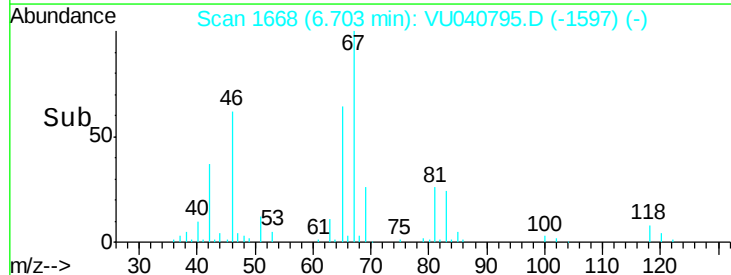
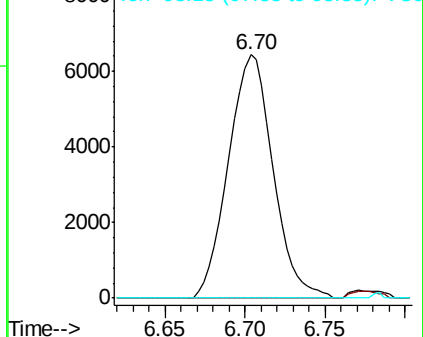


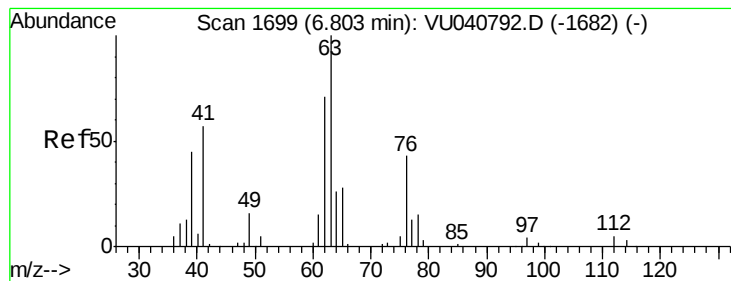
#35
 Methylcyclohexane
 Concen: 0.862 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU040795.D
 Acq: 19 Oct 2020 11:27

Tgt Ion: 83 Resp: 12255
 Ion Ratio Lower Upper
 83 100
 55 1.9 70.7 106.1#
 98 0.4 38.4 57.6#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.564 ug/L

RT: 6.70 min Scan# 1666

Delta R.T. -0.11 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

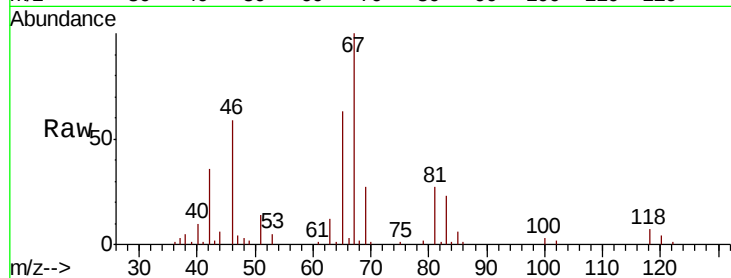
ETZ43

Tot Ion: 63 Resp: 6079

Ion Ratio Lower Upper

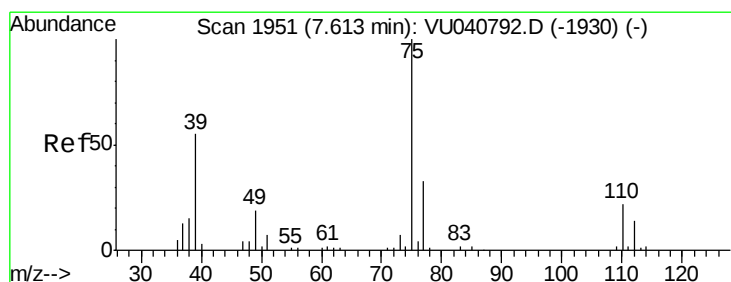
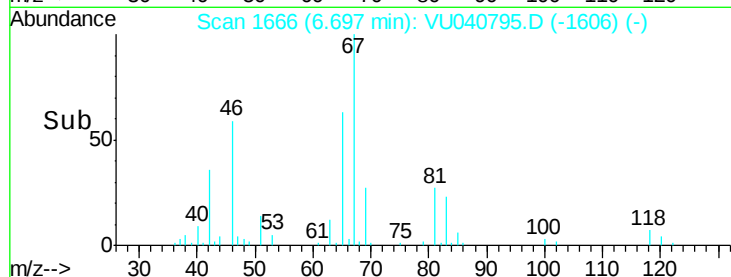
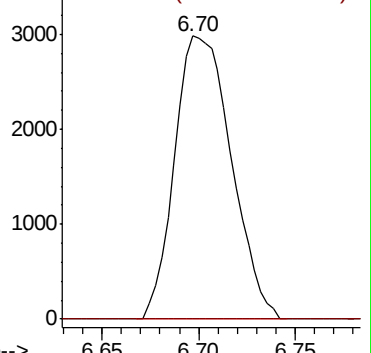
63 100

112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU040795.D (-1666) (-)

Ion 112.10 (111.80 to 112.80): VU040795.D (-1666) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.082 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU040795.D

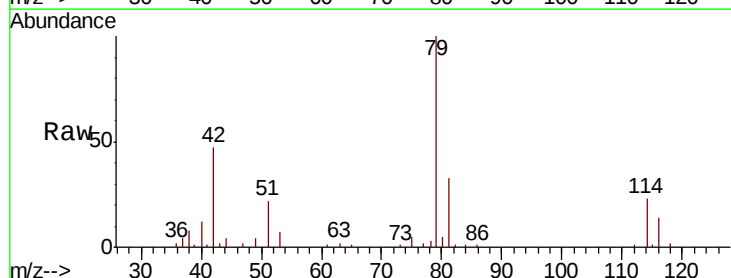
Acq: 19 Oct 2020 11:27

Tgt Ion: 75 Resp: 1207

Ion Ratio Lower Upper

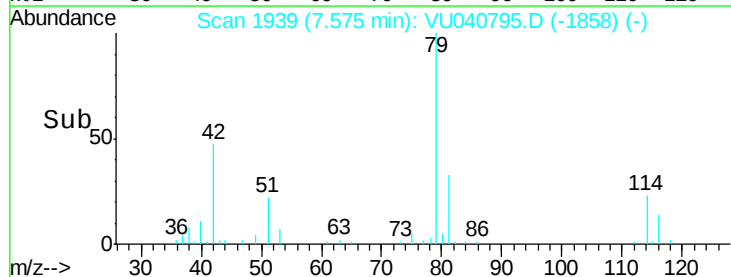
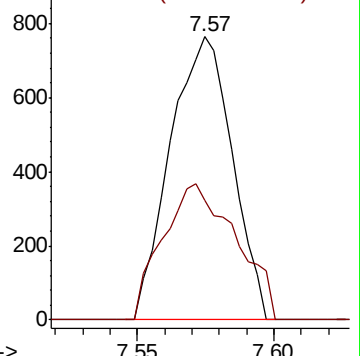
75 100

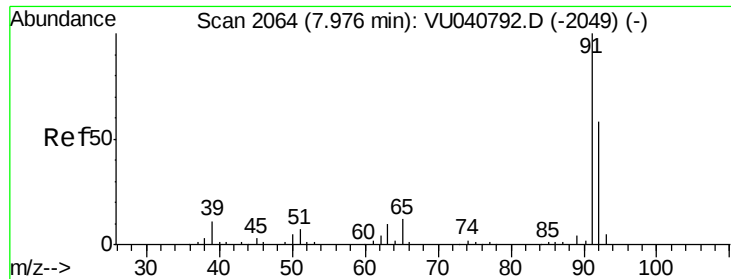
77 42.4 20.5 38.1#



Abundance Ion 75.05 (74.75 to 75.75): VU040795.D (-1858) (-)

Ion 77.05 (76.75 to 77.75): VU040795.D (-1858) (-)





#42

Toluene

Concen: 0.074 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

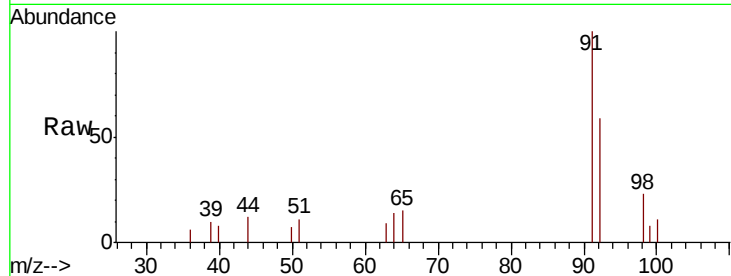
ETZ43

Tot Ion: 91 Resp: 2899

Ion Ratio Lower Upper

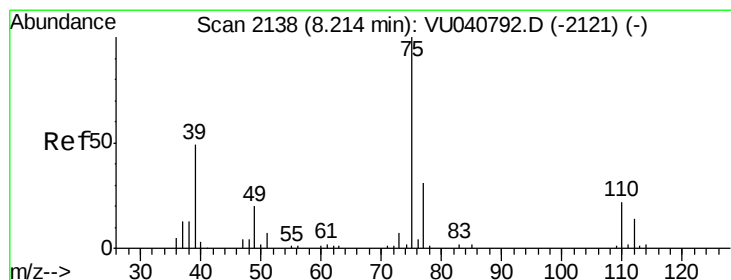
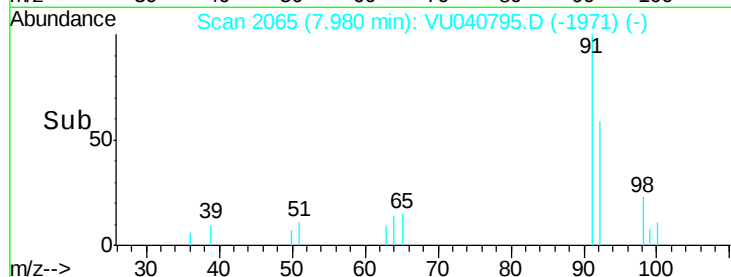
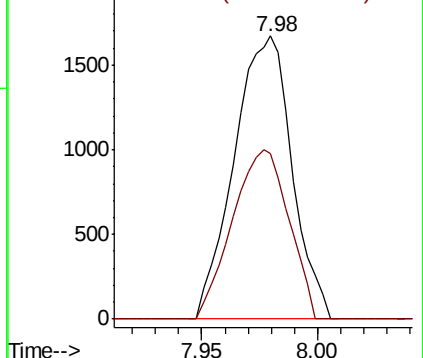
91 100

92 58.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.069 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU040795.D

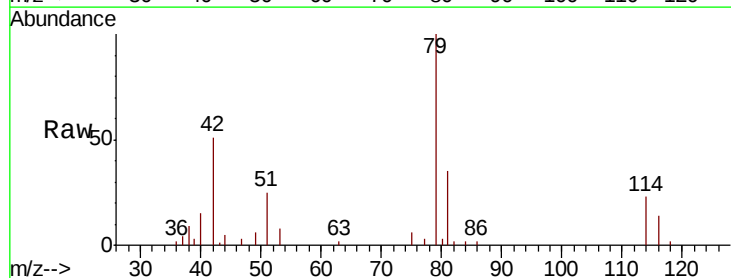
Acq: 19 Oct 2020 11:27

Tgt Ion: 75 Resp: 934

Ion Ratio Lower Upper

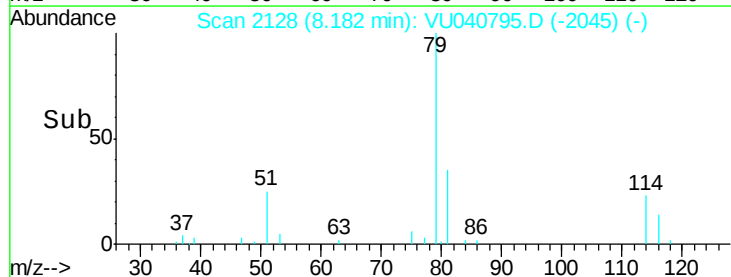
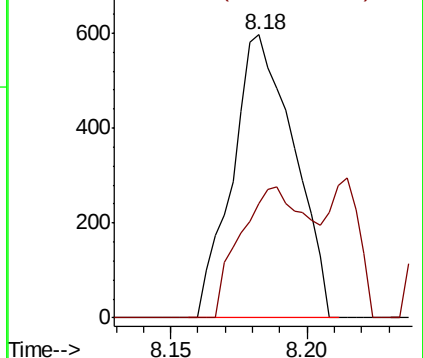
75 100

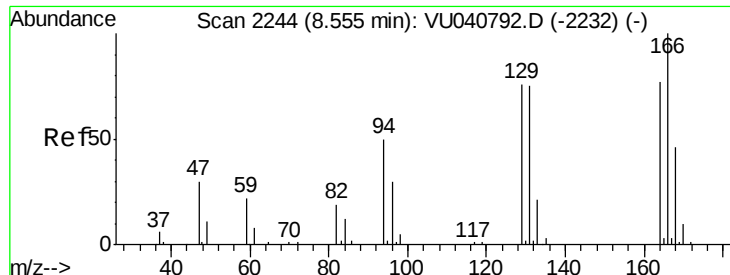
77 40.2 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#47

Tetrachloroethene

Concen: 8.549 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

ETZ43

Tot Ion:164 Resp: 61180

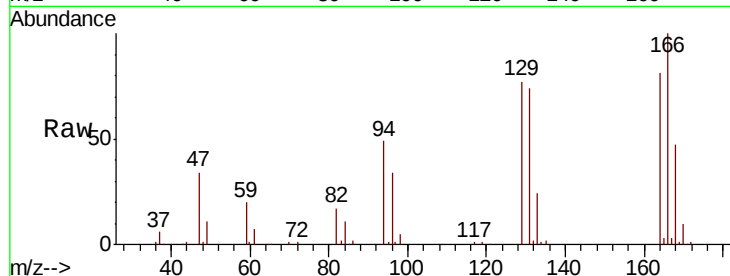
Ion Ratio Lower Upper

164 100

129 94.5 68.8 127.8

131 91.2 66.7 123.9

166 123.3 83.9 155.7

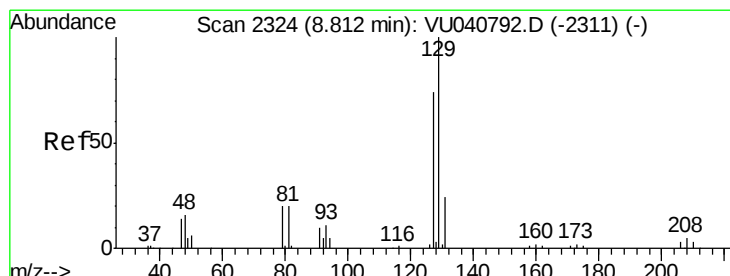
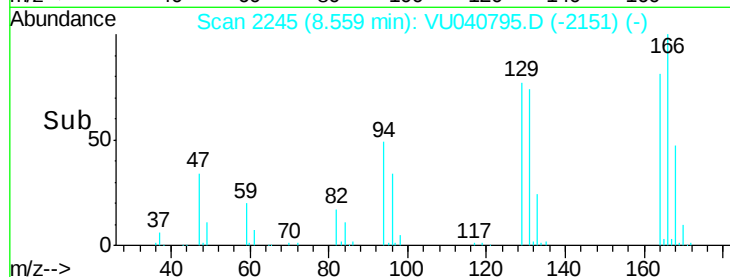
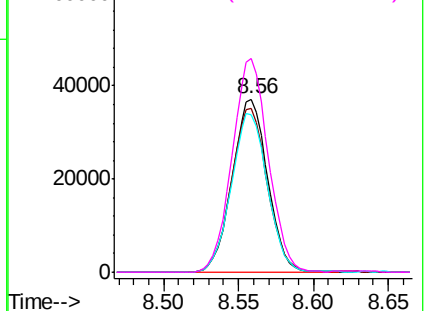


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#49

Dibromochloromethane

Concen: 6.279 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040795.D

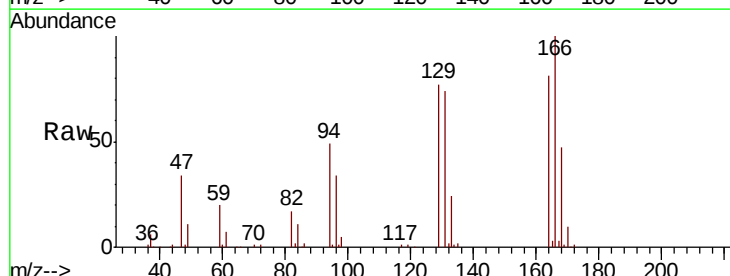
Acq: 19 Oct 2020 11:27

Tgt Ion:129 Resp: 58342

Ion Ratio Lower Upper

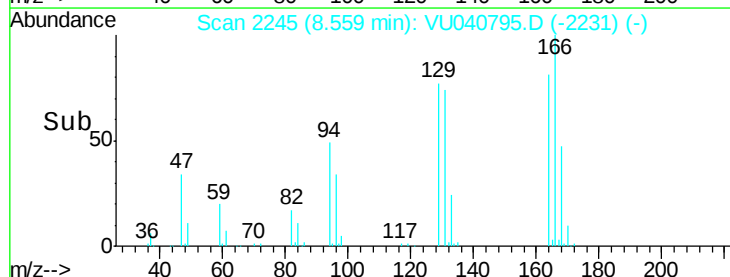
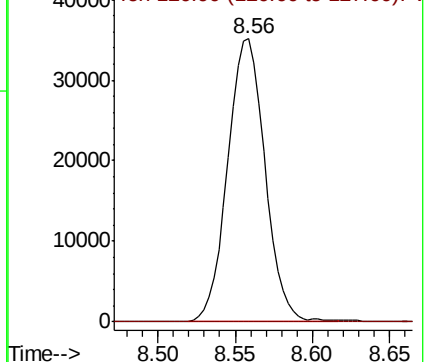
129 100

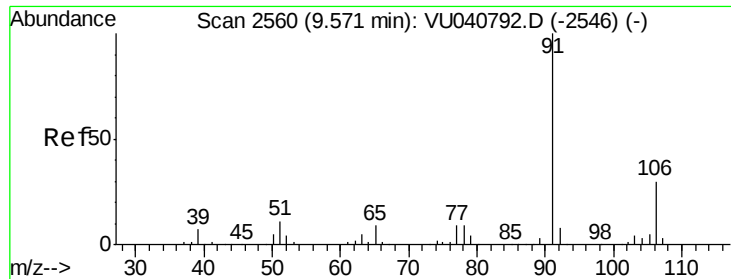
127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#52

Ethylbenzene

Concen: 0.046 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

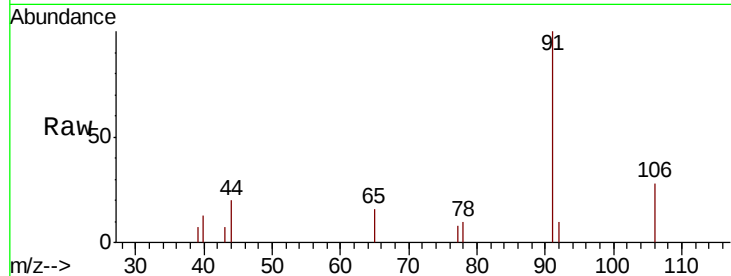
ETZ43

Tot Ion: 91 Resp: 1952

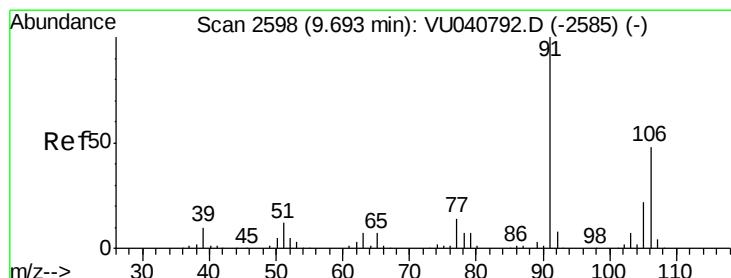
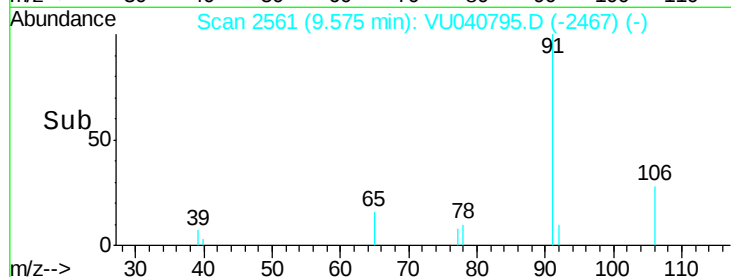
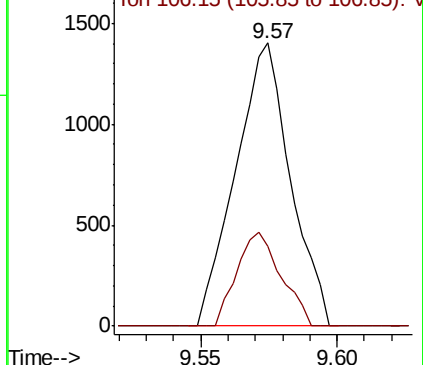
Ion Ratio Lower Upper

91 100

106 28.2 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU040795.D (-2546) (-)



#53

m,p-Xylene

Concen: 0.157 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040795.D

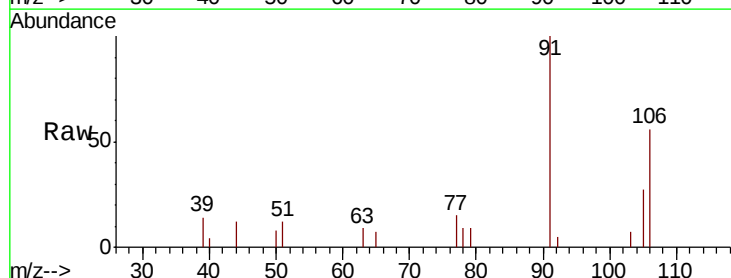
Acq: 19 Oct 2020 11:27

Tgt Ion: 106 Resp: 2442

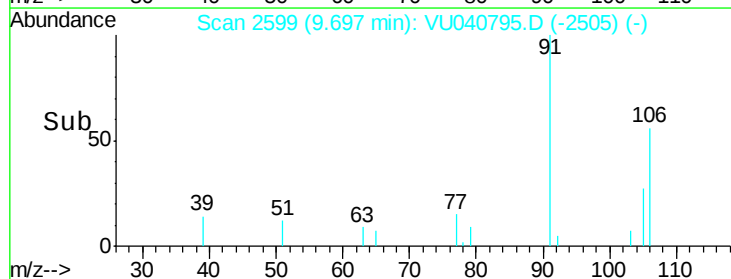
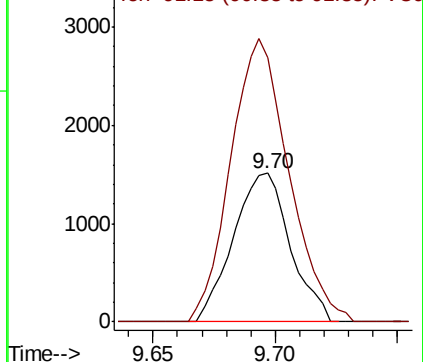
Ion Ratio Lower Upper

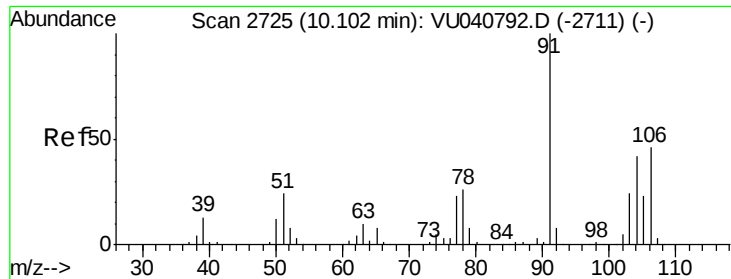
106 100

91 178.2 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040795.D (-2598) (-)

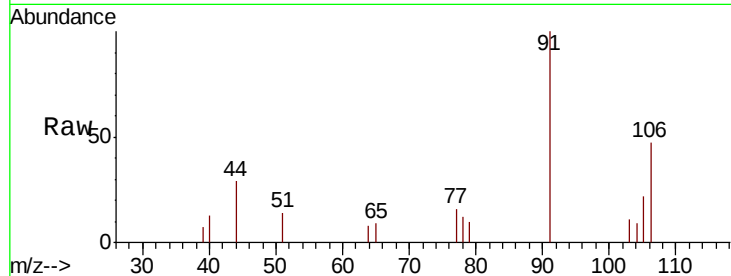




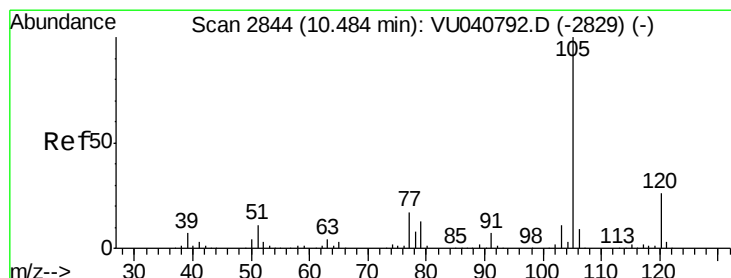
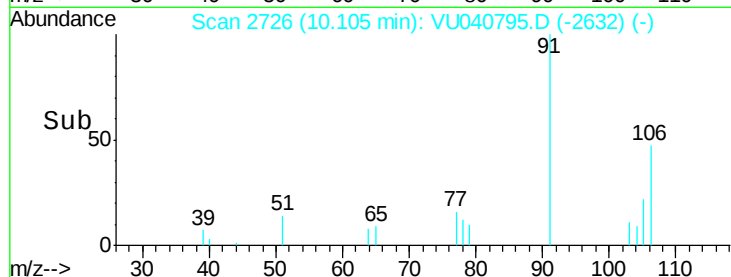
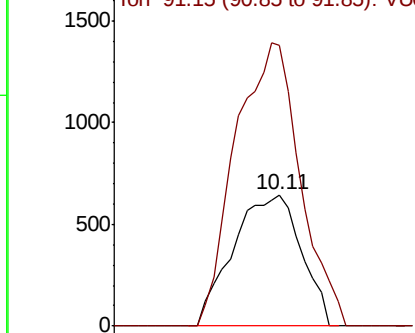
#54
o-Xylene
Concen: 0.079 ug/L
RT: 10.11 min Scan# 2726
Delta R.T. 0.00 min
Lab File: VU040795.D
Acq: 19 Oct 2020 11:27

Instrument :
MSVOA_U
ClientSampled :
ETZ43

Tot Ion:106 Resp: 1185
Ion Ratio Lower Upper
106 100
91 213.6 160.2 297.4

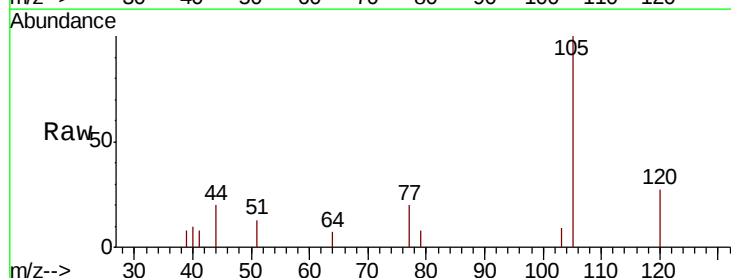


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

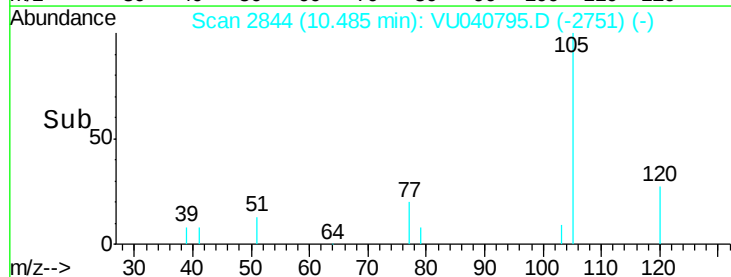
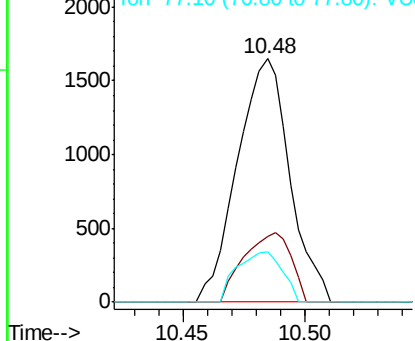


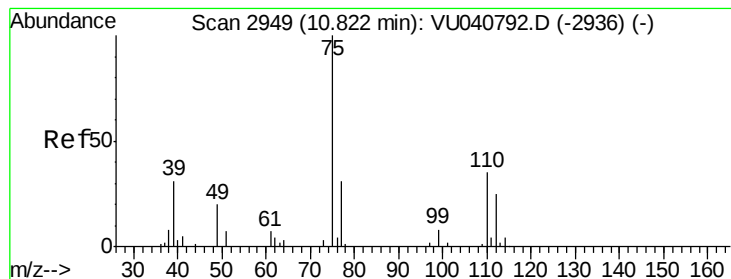
#56
Isopropylbenzene
Concen: 0.061 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040795.D
Acq: 19 Oct 2020 11:27

Tgt Ion:105 Resp: 2451
Ion Ratio Lower Upper
105 100
120 25.6 20.6 30.8
77 17.8 13.8 20.6



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): VU0





#59

1,2,3-Trichloropropane

Concen: 0.934 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

Instrument :

MSVOA_U

ClientSampleId :

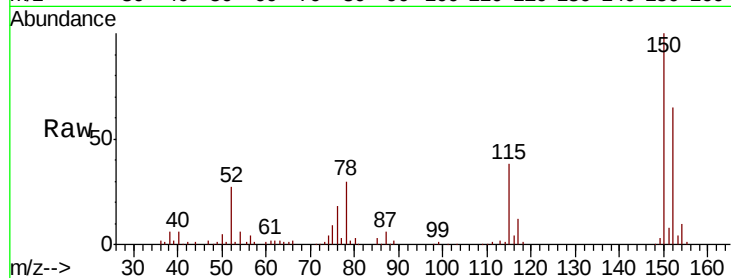
ETZ43

Tot Ion: 75 Resp: 7397

Ion Ratio Lower Upper

75 100

77 34.1 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU040795.D (-3255) (-)

Ion 77.00 (76.70 to 77.70): VU040795.D (-3255) (-)

11.81

4000

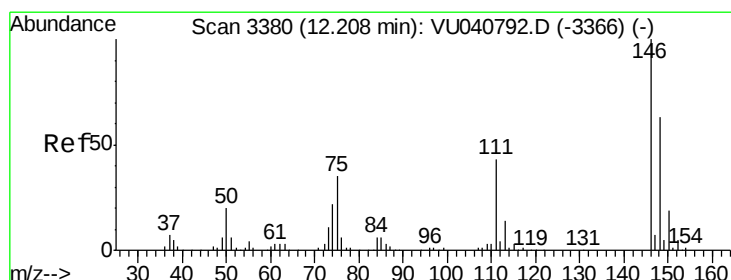
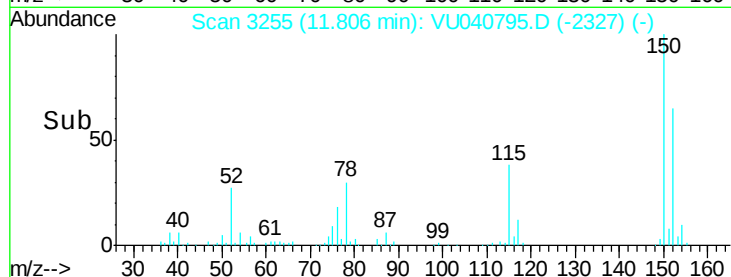
3000

2000

1000

0

Time-->



#65

1,2-Dichlorobenzene

Concen: 0.151 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040795.D

Acq: 19 Oct 2020 11:27

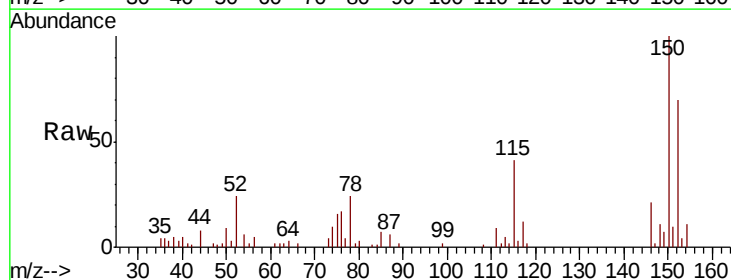
Tgt Ion: 146 Resp: 2519

Ion Ratio Lower Upper

146 100

111 44.8 34.4 51.6

148 54.0 50.0 75.0



Abundance Ion 145.95 (145.65 to 146.65): VU040795.D (-3380) (-)

Ion 111.00 (110.70 to 111.70): VU040795.D (-3380) (-)

Ion 148.00 (147.70 to 148.70): VU040795.D (-3380) (-)

12.21

2000

1500

1000

500

0

Time-->

