

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092620\
 Data File : VU040290.D
 Acq On : 25 Sep 2020 11:22
 Operator : SY/MD
 Sample : L4147-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS6A6

Quant Time: Sep 26 04:50:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 04:43:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	138162	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	134459	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	60937	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	34729	4.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.00%
7) Chloroethane-d5	1.92	69	33199	5.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.60%
11) 1,1-Dichloroethene-d2	2.58	63	57207	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	4.66	46	165118	54.72	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.44%
24) Chloroform-d	5.08	84	74094	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
26) 1,2-Dichloroethane-d4	5.72	65	48149	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.60%
32) Benzene-d6	5.74	84	144415	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.70	67	49865	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.90	98	119569	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.40%
43) trans-1,3-Dichloropropene-	8.18	79	18279	3.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.00%
46) 2-Hexanone-d5	8.64	63	122101	54.23	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.46%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	42850	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	45957	4.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	11304	0.861 ug/L	96
8) Chloroethane	1.94	64	403	0.050 ug/L #	42
13) Acetone	2.68	43	4447	1.592 ug/L	56
18) trans-1,2-Dichloroethene	3.36	96	1043	0.091 ug/L	90
22) cis-1,2-Dichloroethene	4.68	96	60242	4.871 ug/L	98
25) Chloroform	5.10	83	4535	0.187 ug/L	89
34) Trichloroethene	6.55	95	48203	3.736 ug/L	97
35) Methylcyclohexane	6.70	83	11632	0.589 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	5657	0.434 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1455	0.076 ug/L #	65
44) trans-1,3-Dichloropropene	8.19	75	964	0.054 ug/L #	61
45) 1,1,2-Trichloroethane	8.56	97	51721	5.451 ug/L #	1
47) Tetrachloroethene	8.56	164	4820726	568.782 ug/L	94
49) Dibromochloromethane	8.56	129	5126278	450.110 ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	8803	0.912 ug/L #	89
68) 1,2,4-trichlorobenzene	13.84	180	412	0.031 ug/L #	74

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Sep 26 04:43:23 2020
Response via : Initial Calibration

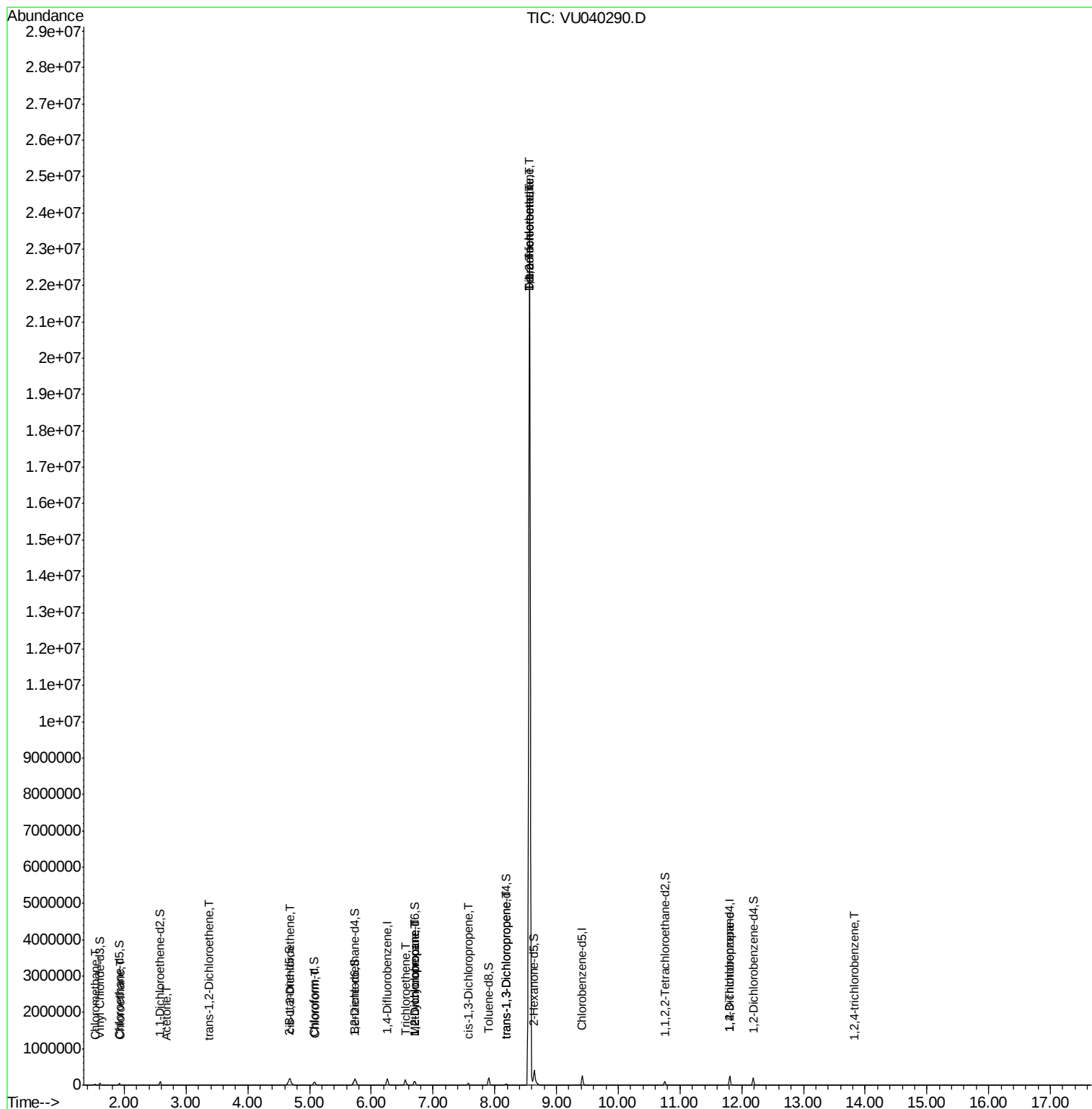
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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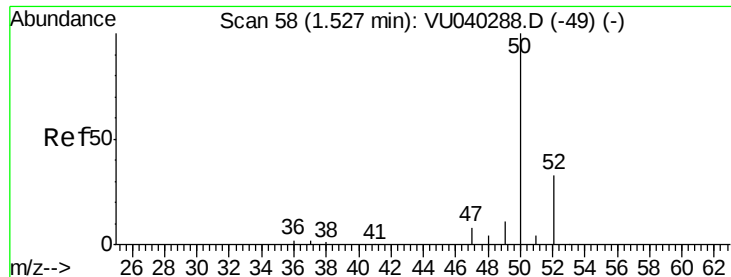
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.861 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

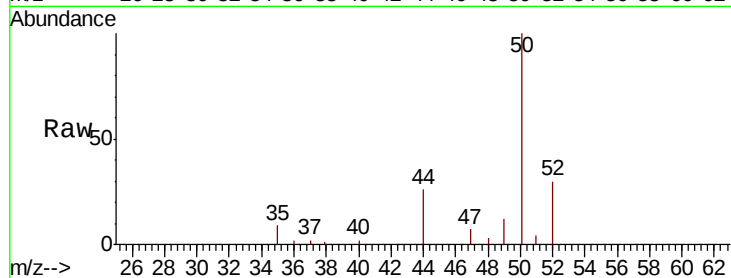
BFSA6

Tot Ion: 50 Resp: 11304

Ion Ratio Lower Upper

50 100

52 30.3 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU040288.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040288.D (-49) (-)

1.53

10000

8000

6000

4000

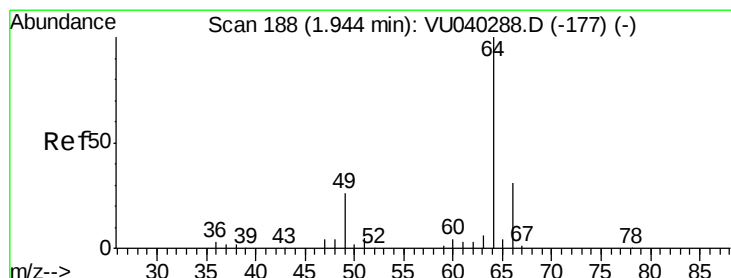
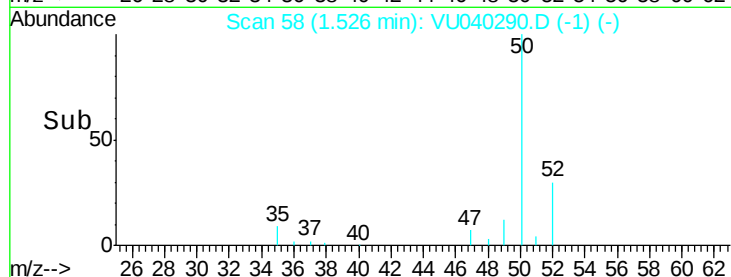
2000

0

Time-->

1.50

1.55



#8

Chloroethane

Concen: 0.050 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040290.D

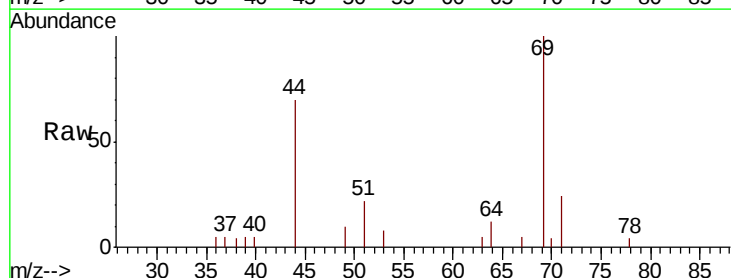
Acq: 25 Sep 2020 11:22

Tgt Ion: 64 Resp: 403

Ion Ratio Lower Upper

64 100

66 0.0 22.7 42.1#



Abundance Ion 64.10 (63.80 to 64.80): VU040288.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU040288.D (-177) (-)

1.94

300

200

100

0

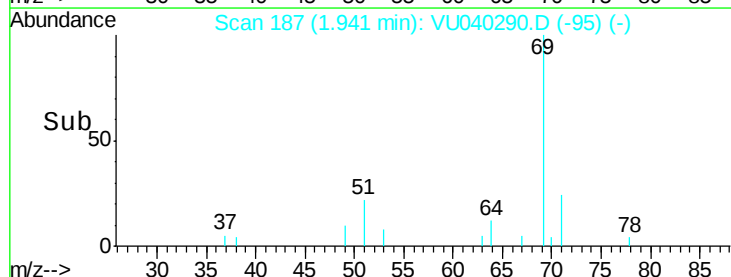
Time-->

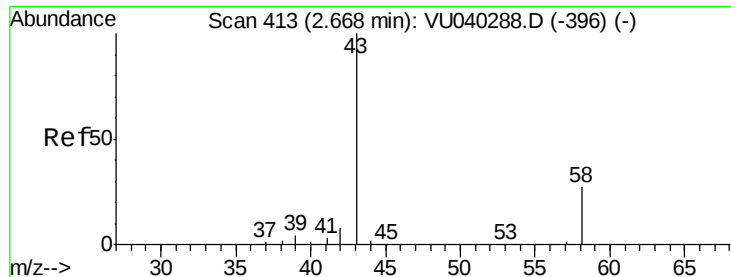
1.90

1.92

1.94

1.96





#13

Acetone

Concen: 1.592 ug/L

RT: 2.68 min Scan# 417

Delta R.T. 0.01 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

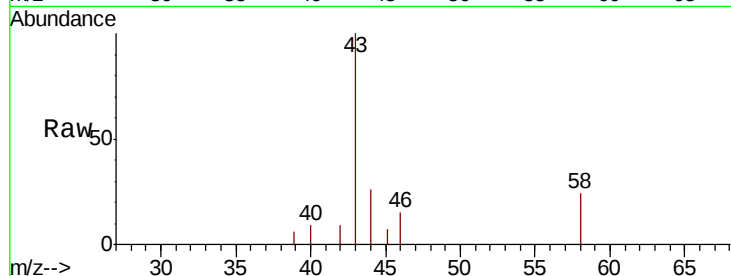
BFSA6

Tot Ion: 43 Resp: 4447

Ion Ratio Lower Upper

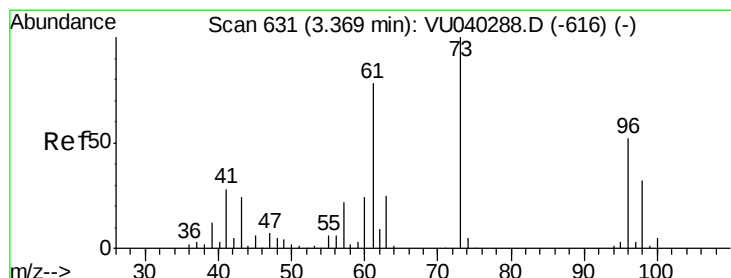
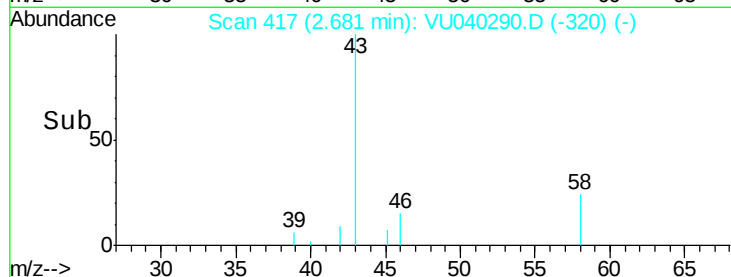
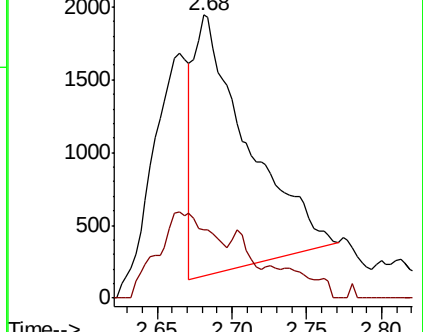
43 100

58 4.8 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU040288.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VU040288.D (-396) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.091 ug/L

RT: 3.36 min Scan# 629

Delta R.T. -0.01 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

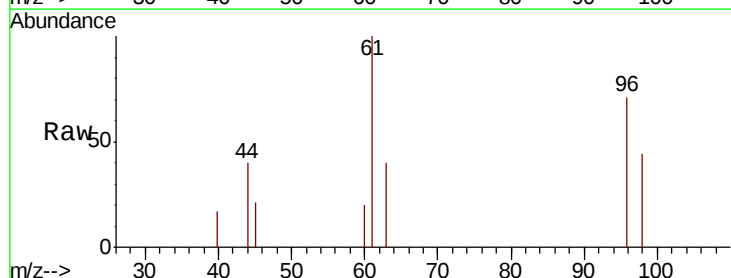
Tgt Ion: 96 Resp: 1043

Ion Ratio Lower Upper

96 100

61 140.2 110.5 205.3

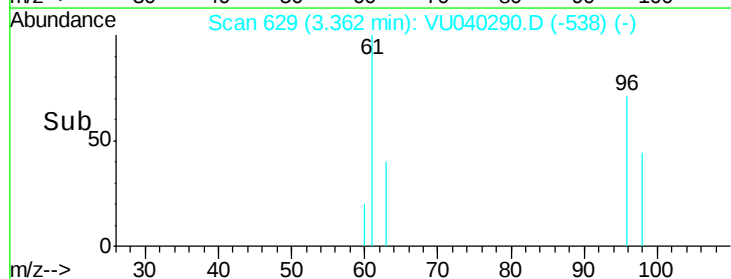
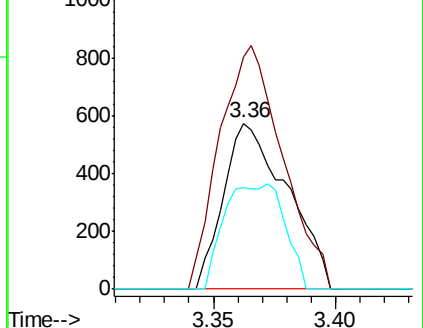
98 61.5 43.2 80.2

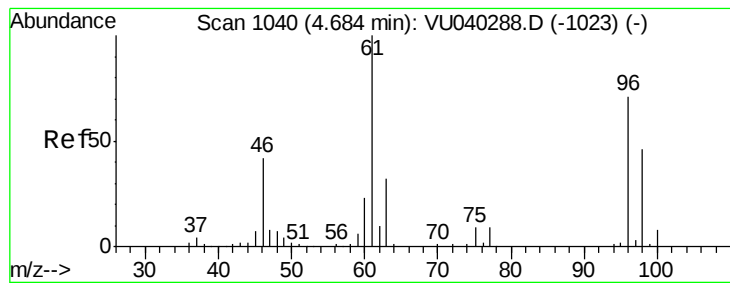


Abundance Ion 96.00 (95.70 to 96.70): VU040288.D (-616) (-)

Ion 61.05 (60.75 to 61.75): VU040288.D (-616) (-)

Ion 97.95 (97.65 to 98.65): VU040288.D (-616) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.871 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

BFSA6

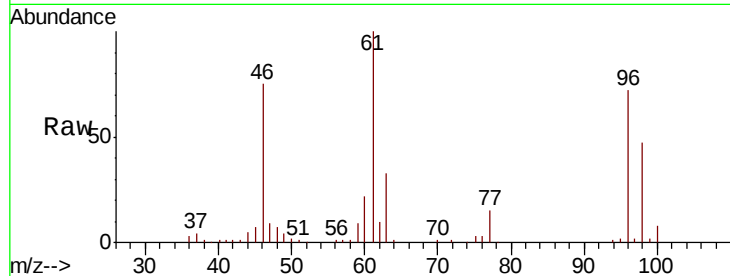
Tot Ion: 96 Resp: 60242

Ion Ratio Lower Upper

96 100

61 138.6 98.8 183.4

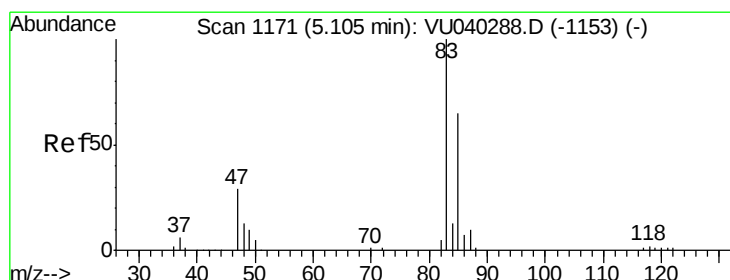
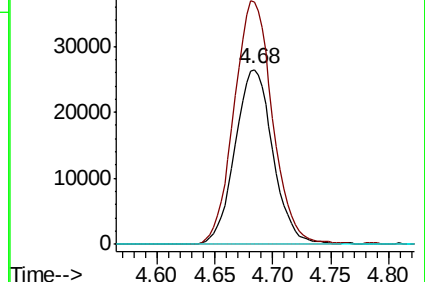
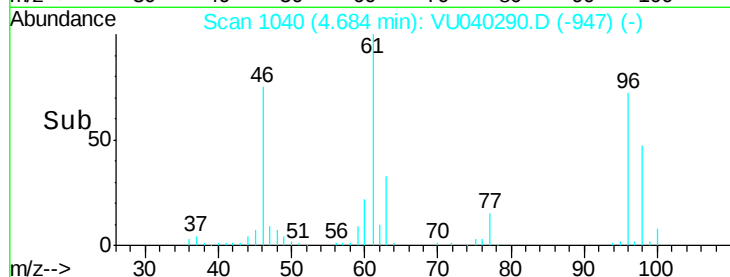
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040290.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040290.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040290.D (-947) (-)



#25

Chloroform

Concen: 0.187 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU040290.D

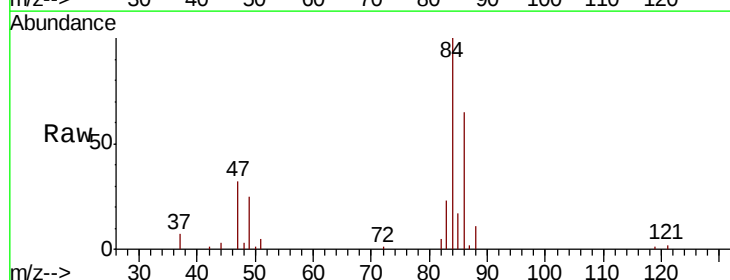
Acq: 25 Sep 2020 11:22

Tgt Ion: 83 Resp: 4535

Ion Ratio Lower Upper

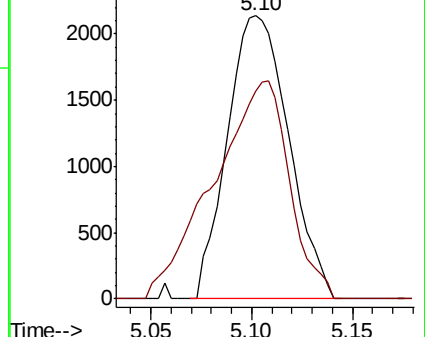
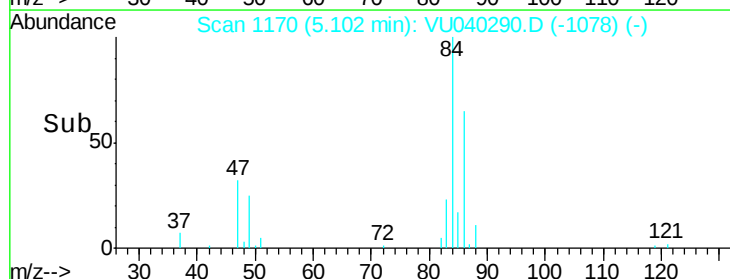
83 100

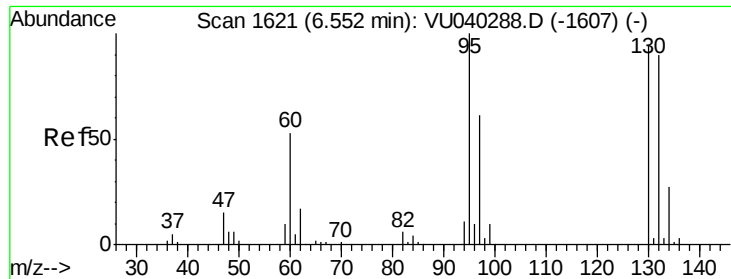
85 73.4 45.3 84.1



Abundance Ion 83.05 (82.75 to 83.75): VU040290.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040290.D (-1078) (-)





#34

Trichloroethene

Concen: 3.736 ug/L

RT: 6.55 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

BFSA6

Tot Ion: 95 Resp: 48203

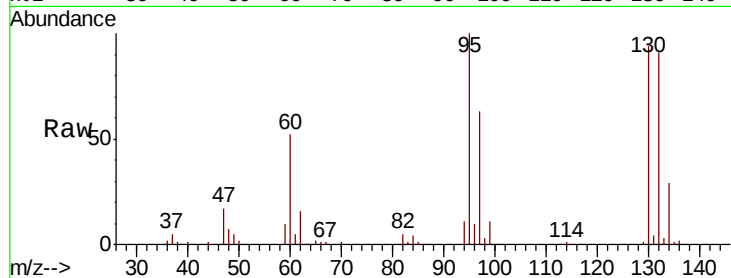
Ion Ratio Lower Upper

95 100

97 63.1 43.3 80.5

132 91.0 59.4 110.4

130 93.7 64.8 120.4

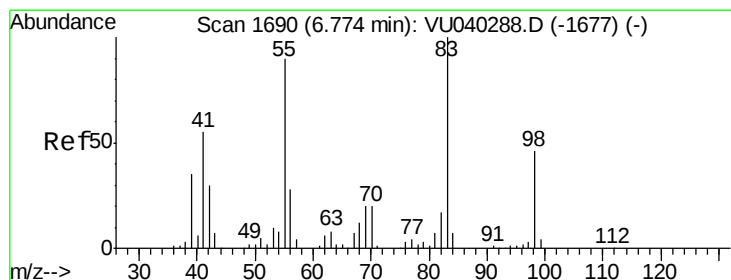
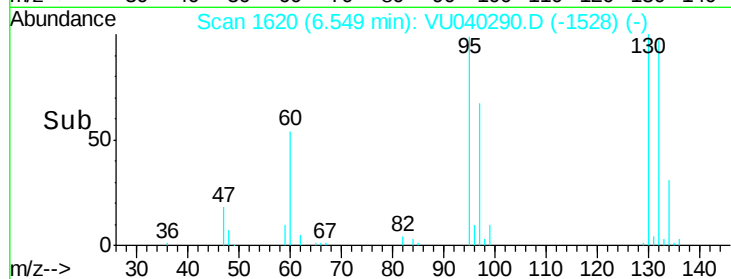
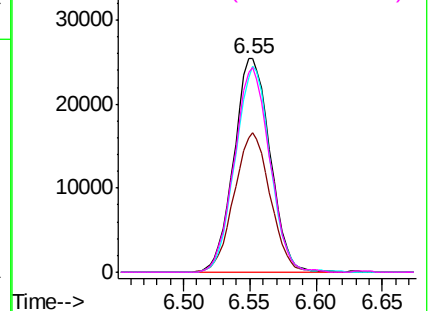


Abundance Ion 95.00 (94.70 to 95.70): VU040290.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU040290.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU040290.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU040290.D (-1528) (-)



#35

Methylcyclohexane

Concen: 0.589 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.07 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

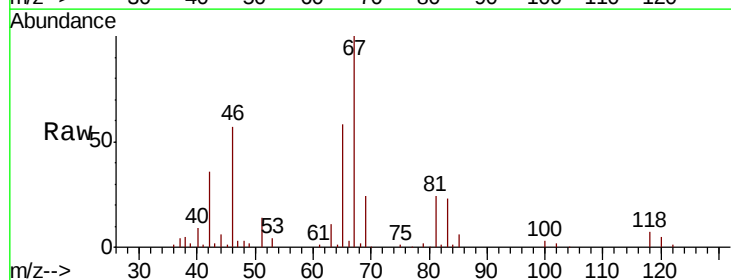
Tgt Ion: 83 Resp: 11632

Ion Ratio Lower Upper

83 100

55 0.0 70.5 105.7#

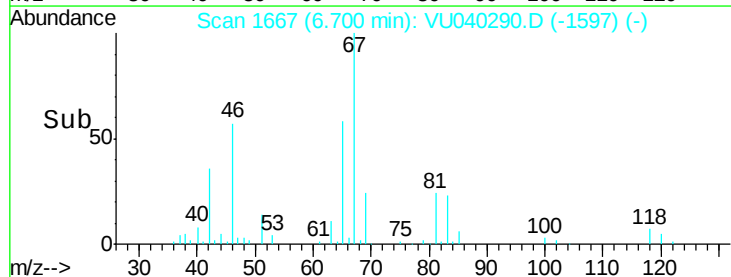
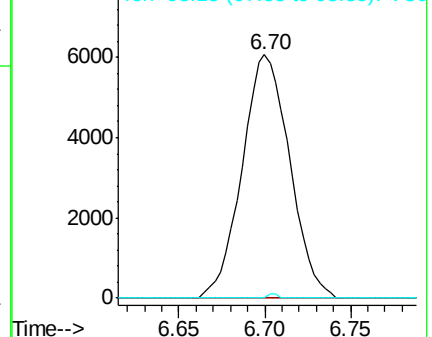
98 0.0 37.8 56.6#

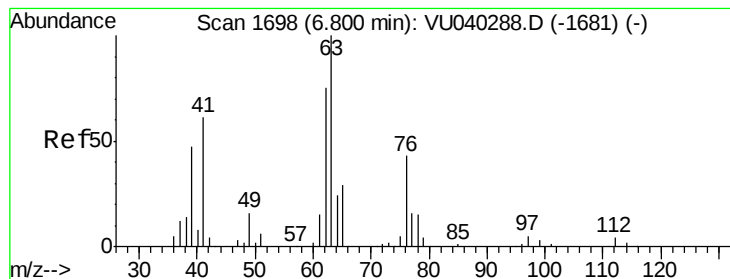


Abundance Ion 83.15 (82.85 to 83.85): VU040290.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU040290.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU040290.D (-1597) (-)





#37

1,2-Dichloropropane

Concen: 0.434 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

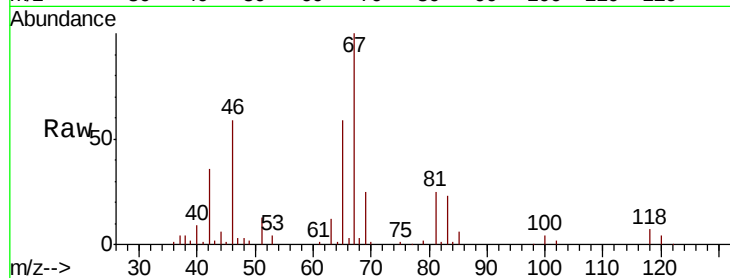
BFSA6

Tot Ion: 63 Resp: 5657

Ion Ratio Lower Upper

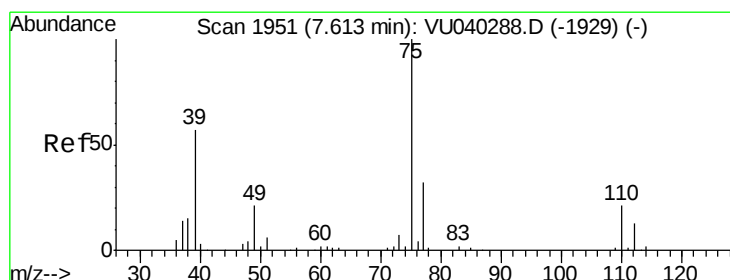
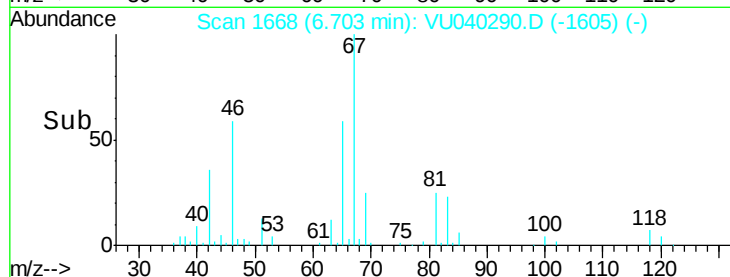
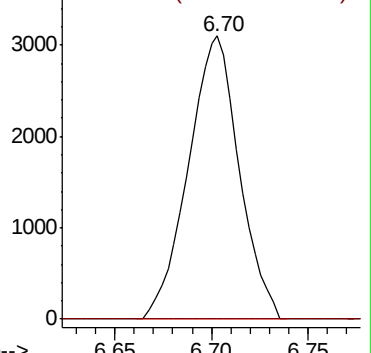
63 100

112 0.0 3.2 4.8#



Abundance Ion 63.10 (62.80 to 63.80): VU040288.D (-1681) (-)

Ion 112.10 (111.80 to 112.80): VU040288.D (-1681) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.076 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU040290.D

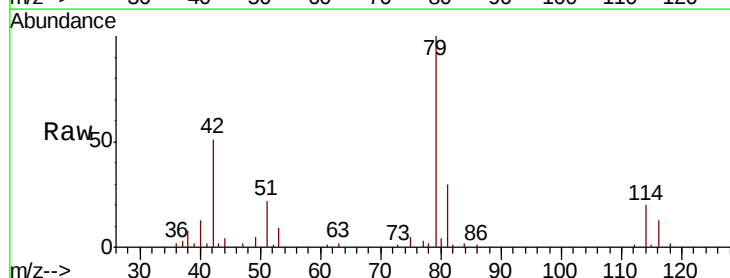
Acq: 25 Sep 2020 11:22

Tgt Ion: 75 Resp: 1455

Ion Ratio Lower Upper

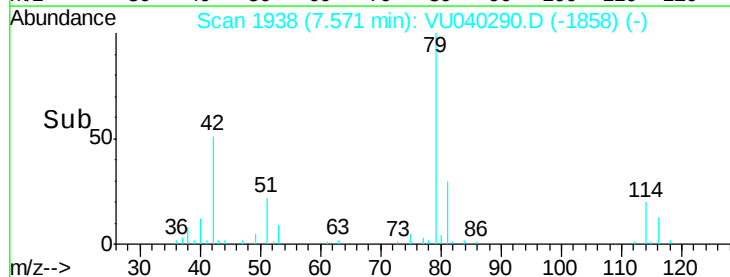
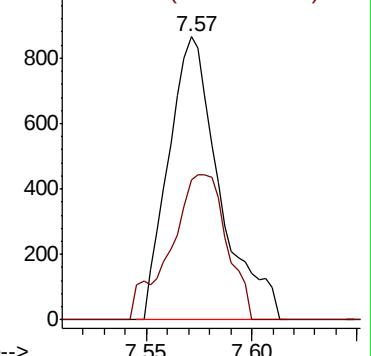
75 100

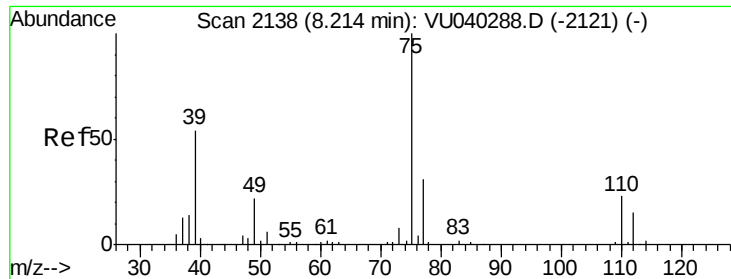
77 49.2 21.1 39.3#



Abundance Ion 75.05 (74.75 to 75.75): VU040288.D (-1929) (-)

Ion 77.05 (76.75 to 77.75): VU040288.D (-1929) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.054 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

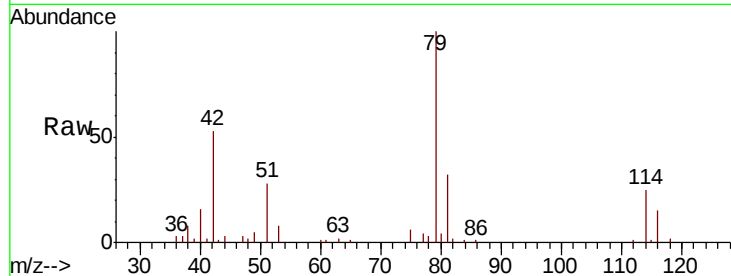
BFSA6

Tot Ion: 75 Resp: 964

Ion Ratio Lower Upper

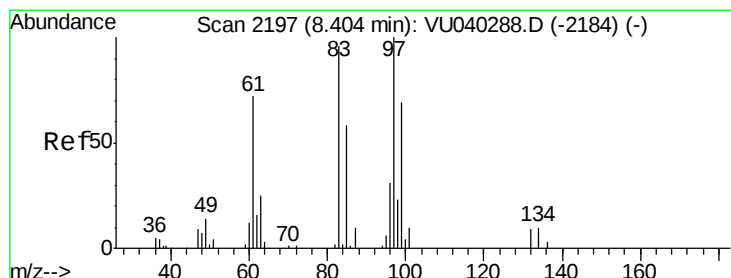
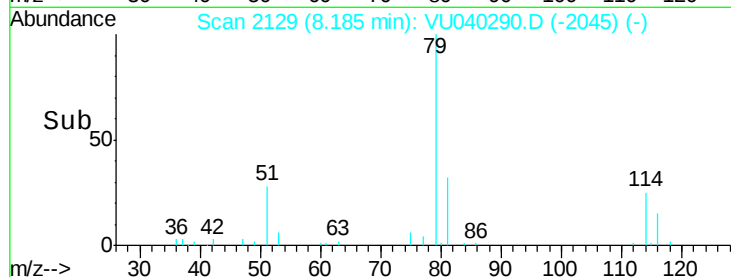
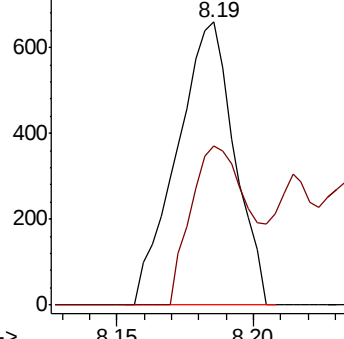
75 100

77 56.4 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#45

1,1,2-Trichloroethane

Concen: 5.451 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. 0.16 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Tgt Ion: 97 Resp: 51721

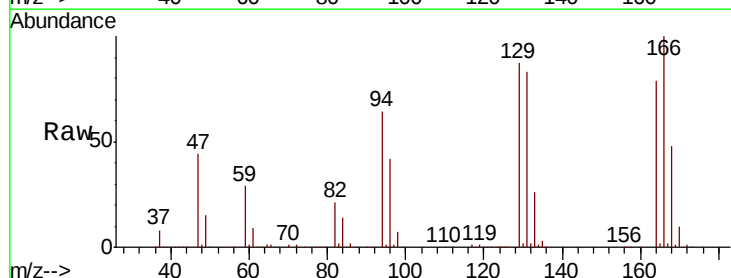
Ion Ratio Lower Upper

97 100

99 15.9 43.0 79.8#

83 266.7 61.7 114.7#

85 42.0 39.3 73.1

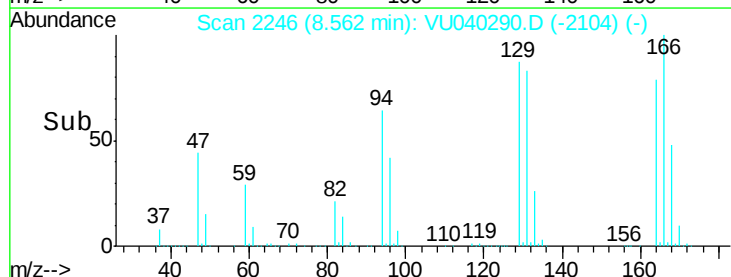
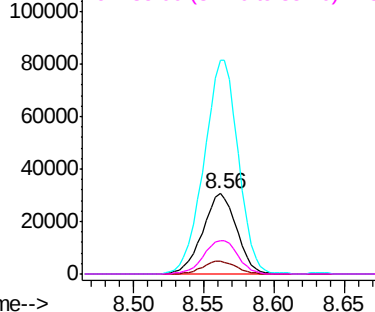


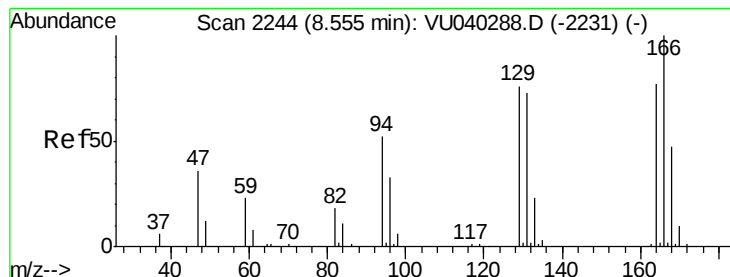
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0





#47

Tetrachloroethene

Concen: 568.782 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. 0.01 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

BFSA6

Tot Ion:164 Resp: 4820726

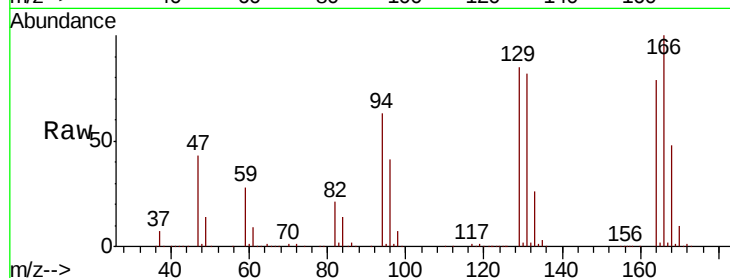
Ion Ratio Lower Upper

164 100

129 108.6 71.5 132.7

131 104.4 65.9 122.5

166 127.3 87.3 162.1

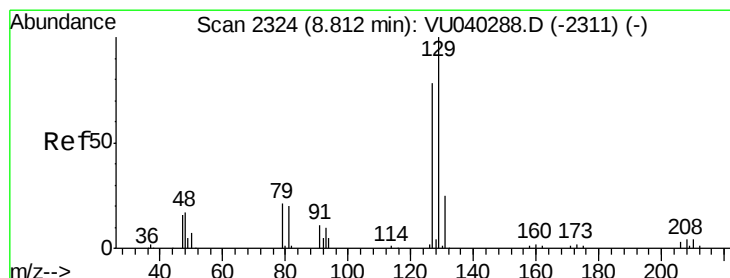
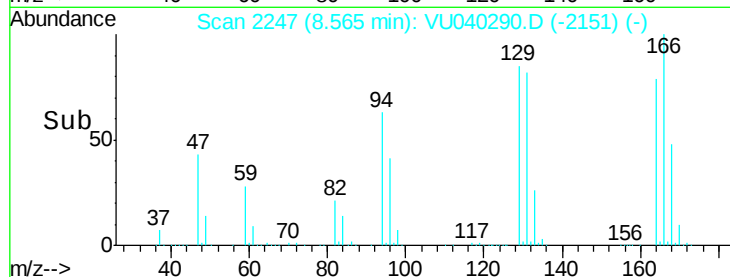
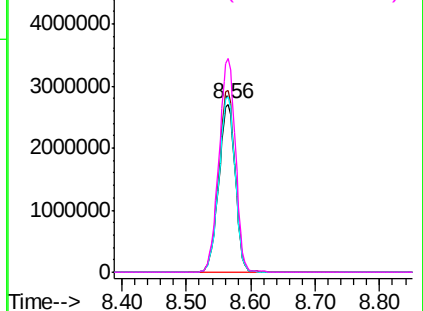


Abundance Ion 163.90 (163.60 to 164.60): V

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: 450.110 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. -0.25 min

Lab File: VU040290.D

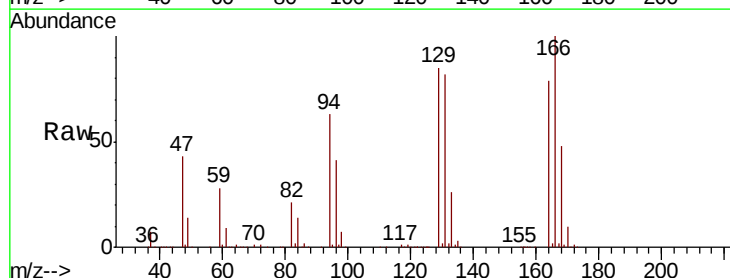
Acq: 25 Sep 2020 11:22

Tgt Ion:129 Resp: 5126278

Ion Ratio Lower Upper

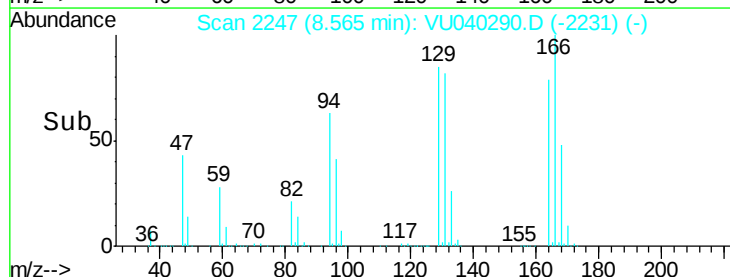
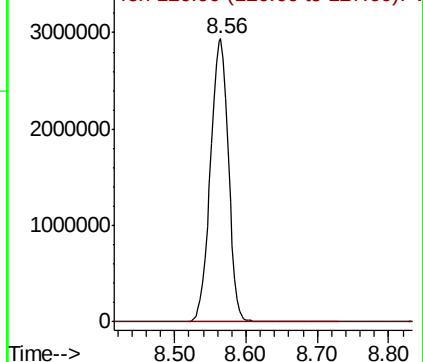
129 100

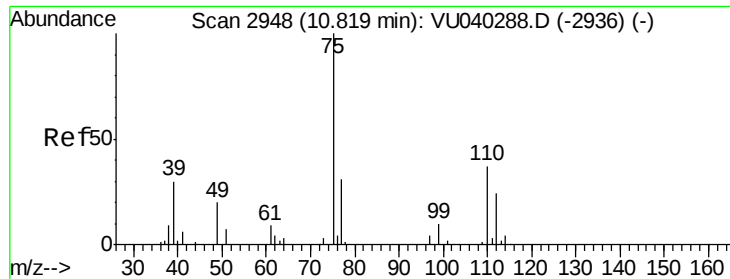
127 0.0 53.7 99.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.912 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

Instrument :

MSVOA_U

ClientSampleId :

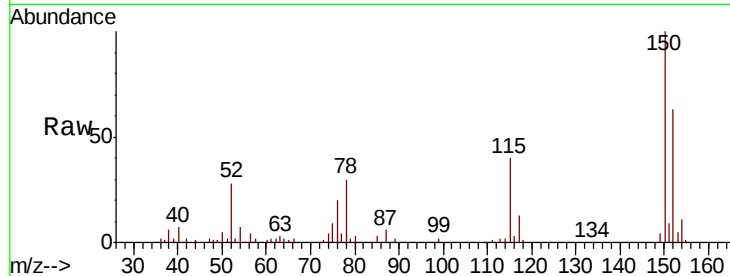
BFSA6

Tot Ion: 75 Resp: 8803

Ion Ratio Lower Upper

75 100

77 37.4 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VU040288.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040288.D (-2936) (-)

11.81

6000

5000

4000

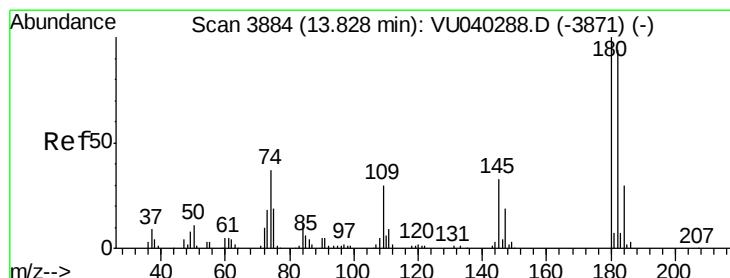
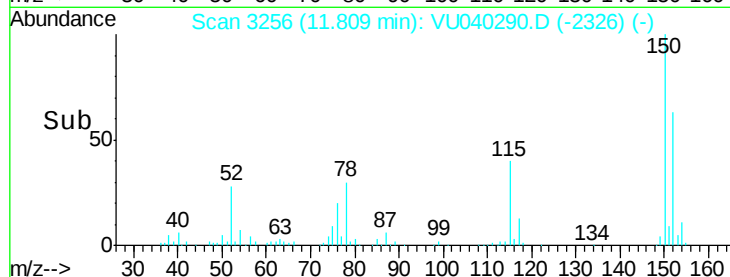
3000

2000

1000

0

Time-->



#68

1,2,4-trichlorobenzene

Concen: 0.031 ug/L

RT: 13.84 min Scan# 3887

Delta R.T. 0.01 min

Lab File: VU040290.D

Acq: 25 Sep 2020 11:22

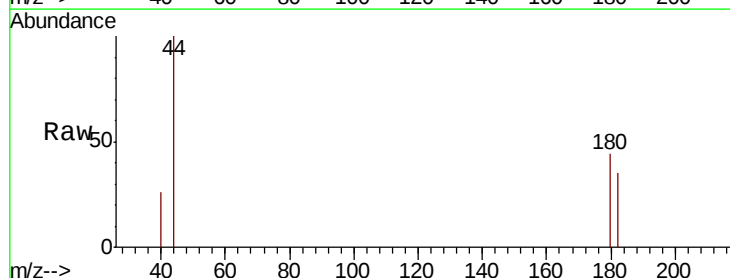
Tgt Ion: 180 Resp: 412

Ion Ratio Lower Upper

180 100

182 108.0 76.0 114.0

145 0.0 28.4 42.6#



Abundance Ion 179.90 (179.60 to 180.60): VU040288.D (-3871) (-)

Ion 182.00 (181.70 to 182.70): VU040288.D (-3871) (-)

Ion 144.95 (144.65 to 145.65): VU040288.D (-3871) (-)

13.84

400

300

200

100

0

Time-->

