

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081320\
 Data File : VU039844.D
 Acq On : 13 Aug 2020 10:37
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Quant Time: Aug 14 01:31:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR080320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Aug 13 13:06:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	87490	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	84078	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	46265	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	21183	4.48	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.60%
7) Chloroethane-d5	1.92	69	21428	4.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.80%
11) 1,1-Dichloroethene-d2	2.58	63	47345	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.60%
20) 2-Butanone-d5	4.66	46	92528	44.53	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.06%
24) Chloroform-d	5.08	84	50083	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
26) 1,2-Dichloroethane-d4	5.72	65	29933	4.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.20%
32) Benzene-d6	5.74	84	93927	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.70	67	31218	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.91	98	80502	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
43) trans-1,3-Dichloropropene-	8.18	79	11718	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.64	63	65297	45.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.88%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	28379	4.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	36387	4.60	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	38705	5.486	ug/L 100
3) Chloromethane	1.53	50	38192	5.147	ug/L 97
5) Vinyl chloride	1.61	62	37913	5.330	ug/L 99
6) Bromomethane	1.87	94	19247	4.276	ug/L 100
8) Chloroethane	1.94	64	23152	4.438	ug/L 99
9) Trichlorofluoromethane	2.15	101	59284	5.359	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	29853	4.973	ug/L 97
12) 1,1-Dichloroethene	2.59	96	27298	5.231	ug/L 96
13) Acetone	2.67	43	62023	50.632	ug/L 98
14) Carbon disulfide	2.81	76	98233	6.020	ug/L 99
15) Methyl Acetate	2.97	43	15347	5.080	ug/L 98
16) Methylene chloride	3.06	84	33737	4.010	ug/L 97
17) Methyl tert-butyl Ether	3.38	73	73691	5.318	ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	30113	5.183	ug/L 92
19) 1,1-Dichloroethane	3.89	63	55085	5.135	ug/L 97
21) 2-Butanone	4.74	43	101168	52.406	ug/L # 71
22) cis-1,2-Dichloroethene	4.69	96	32092	5.078	ug/L 100

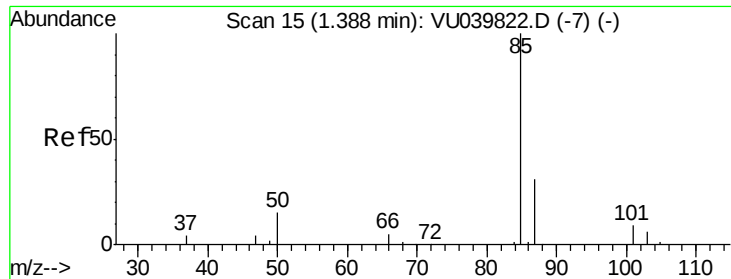
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081320\
 Data File : VU039844.D
 Acq On : 13 Aug 2020 10:37
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Quant Time: Aug 14 01:31:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR080320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Aug 13 13:06:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	15319	5.161	ug/L	82
25) Chloroform	5.11	83	60337	5.233	ug/L	89
27) 1,2-Dichloroethane	5.81	62	39207	4.934	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	51367	5.477	ug/L	98
30) Cyclohexane	5.40	56	49607	5.497	ug/L	98
31) Carbon tetrachloride	5.54	117	45786	5.321	ug/L	94
33) Benzene	5.79	78	121301	5.295	ug/L	100
34) Trichloroethene	6.55	95	30789	5.175	ug/L	96
35) Methylcyclohexane	6.77	83	51618	5.436	ug/L	96
37) 1,2-Dichloropropane	6.80	63	30852	5.071	ug/L #	93
38) Bromodichloromethane	7.11	83	40835	5.130	ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	45157	5.442	ug/L	95
40) 4-Methyl-2-pentanone	7.80	43	235496	51.794	ug/L	99
42) Toluene	7.97	91	128710	5.347	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	39242	5.249	ug/L	100
45) 1,1,2-Trichloroethane	8.41	97	23193	5.068	ug/L	96
47) Tetrachloroethene	8.56	164	25633	5.223	ug/L	95
48) 2-Hexanone	8.69	43	174236	53.067	ug/L	98
49) Dibromochloromethane	8.81	129	29059	5.174	ug/L	100
50) 1,2-Dibromoethane	8.93	107	23641	5.268	ug/L	97
51) Chlorobenzene	9.45	112	82559	5.104	ug/L	98
52) Ethylbenzene	9.57	91	139282	5.169	ug/L	99
53) m,p-Xylene	9.69	106	54452	5.307	ug/L	92
54) o-Xylene	10.10	106	51816	5.157	ug/L	98
55) Styrene	10.11	104	90299	5.337	ug/L	100
56) Isopropylbenzene	10.48	105	137696	5.128	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.78	83	30609	4.861	ug/L	97
59) 1,2,3-Trichloropropane	10.82	75	22035	5.021	ug/L	98
61) Bromoform	10.29	173	16109	5.153	ug/L	90
62) 1,3-Dichlorobenzene	11.74	146	70819	5.230	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	70547	4.942	ug/L	99
65) 1,2-Dichlorobenzene	12.20	146	64784	4.856	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	5149	5.105	ug/L	93
67) 1,3,5-Trichlorobenzene	13.21	180	51707	5.039	ug/L	96
68) 1,2,4-trichlorobenzene	13.83	180	46968	5.461	ug/L	98
69) Naphthalene	14.08	128	87745	5.706	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	44694	5.793	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.486 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

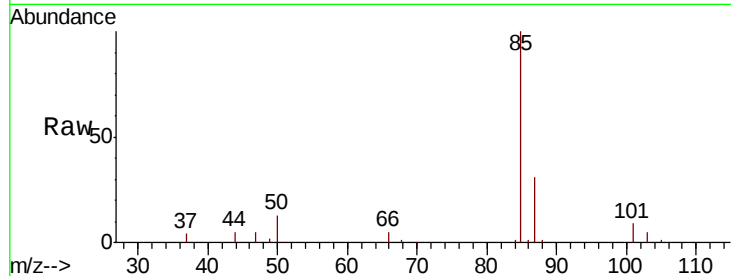
VSTD00519

Tot Ion: 85 Resp: 38705

Ion Ratio Lower Upper

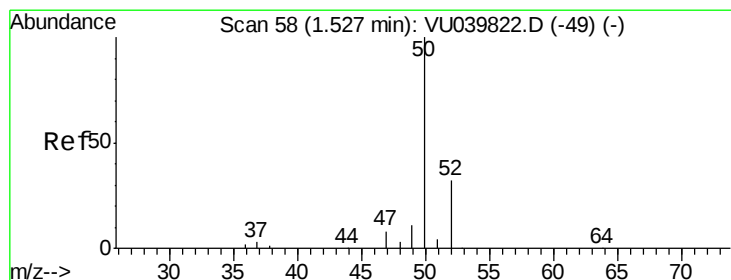
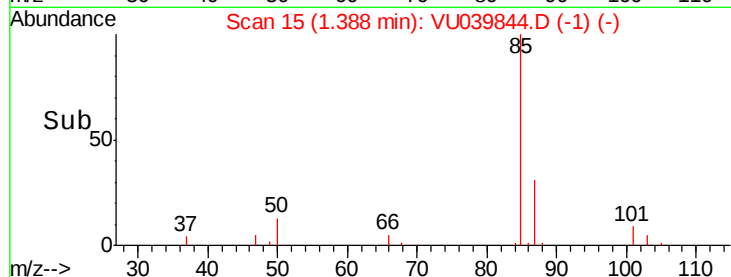
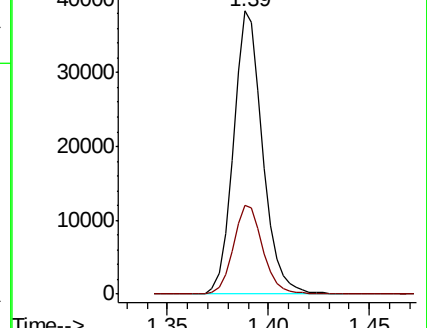
85 100

87 31.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU039822.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU039822.D (-7) (-)



#3

Chloromethane

Concen: 5.147 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039844.D

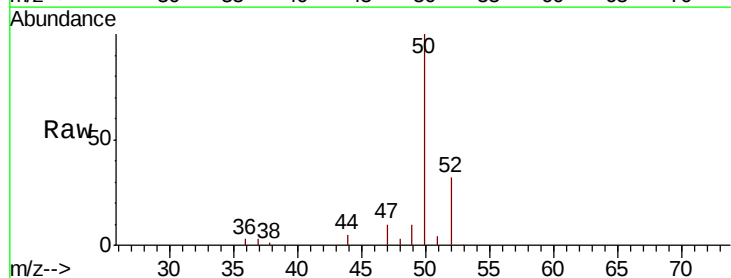
Acq: 13 Aug 2020 10:37

Tgt Ion: 50 Resp: 38192

Ion Ratio Lower Upper

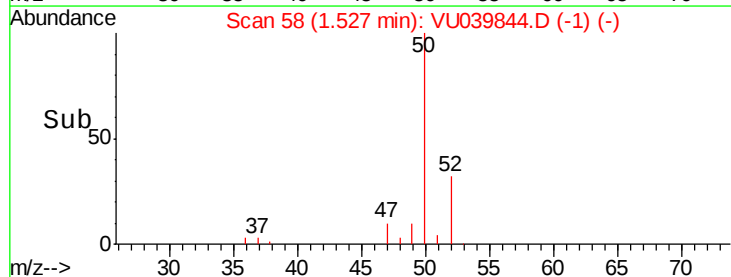
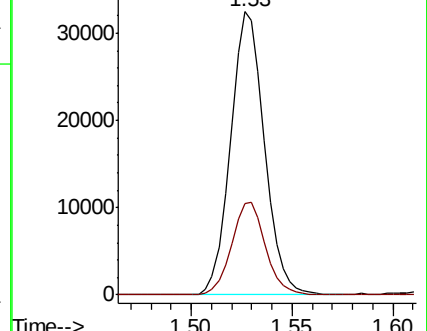
50 100

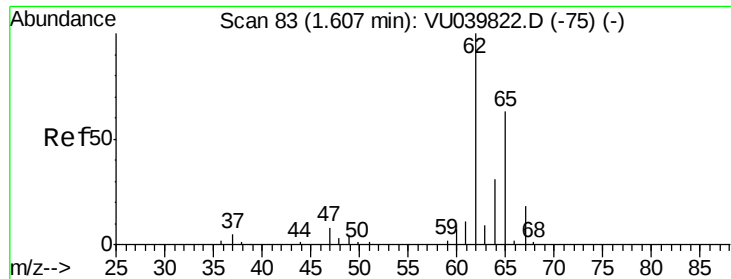
52 32.5 21.6 40.0



Abundance Ion 50.05 (49.75 to 50.75): VU039822.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU039822.D (-49) (-)





#5

Vinyl chloride

Concen: 5.330 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

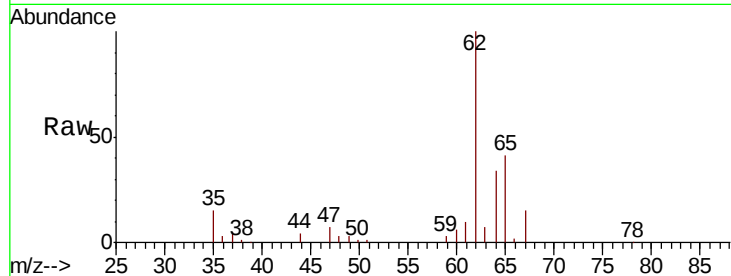
VSTD00519

Tot Ion: 62 Resp: 37913

Ion Ratio Lower Upper

62 100

64 34.0 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

30000

20000

10000

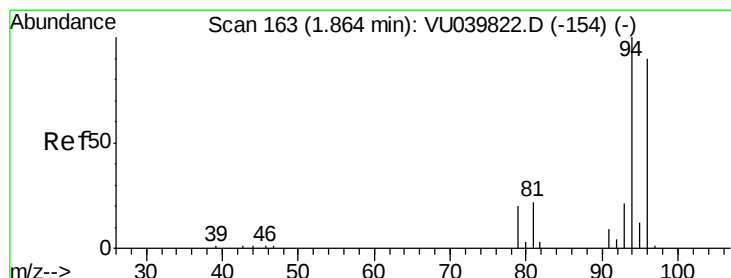
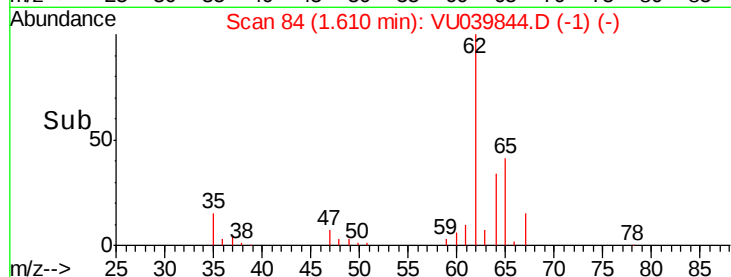
0

Time-->

1.55

1.60

1.65



#6

Bromomethane

Concen: 4.276 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039844.D

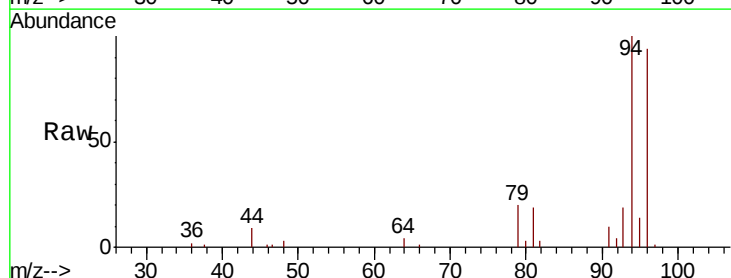
Acq: 13 Aug 2020 10:37

Tgt Ion: 94 Resp: 19247

Ion Ratio Lower Upper

94 100

96 94.4 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.87

15000

10000

5000

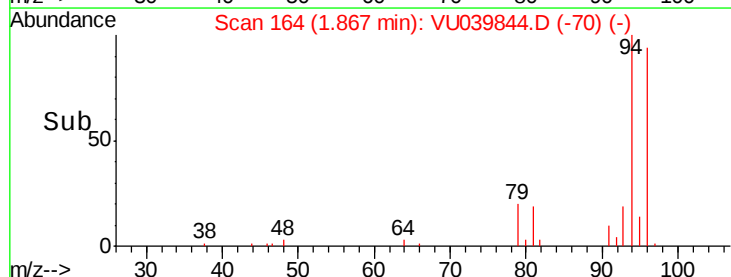
0

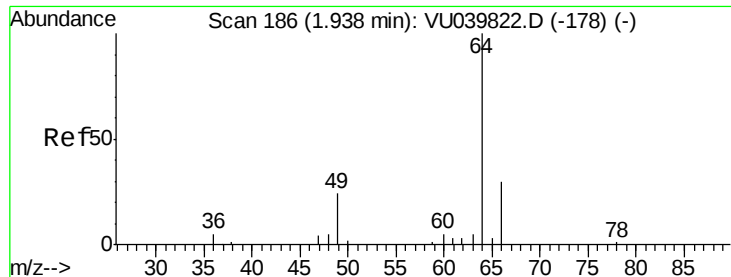
Time-->

1.80

1.85

1.90





#8

Chloroethane

Concen: 4.438 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

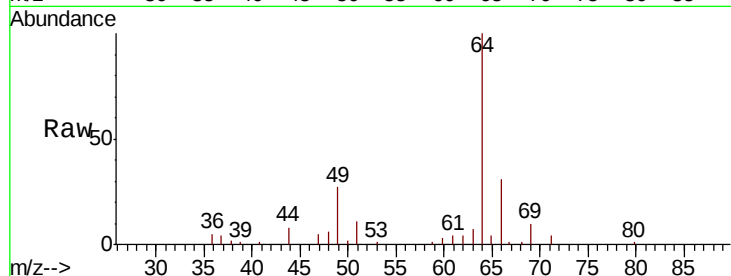
VSTD00519

Tot Ion: 64 Resp: 23152

Ion Ratio Lower Upper

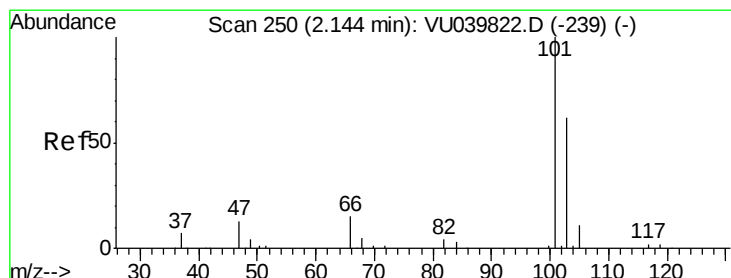
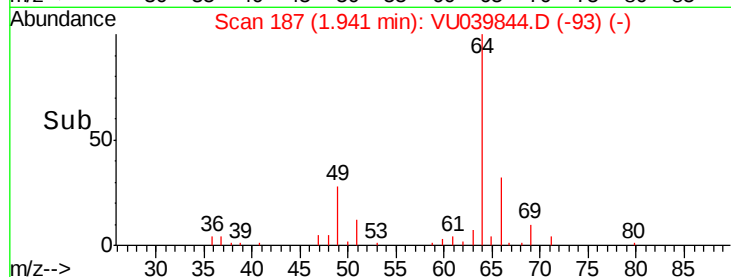
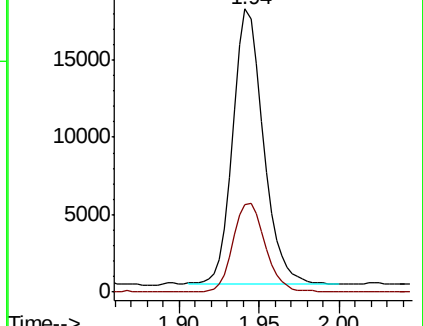
64 100

66 31.1 22.3 41.3



Abundance Ion 64.10 (63.80 to 64.80): VU039822.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU039822.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 5.359 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU039844.D

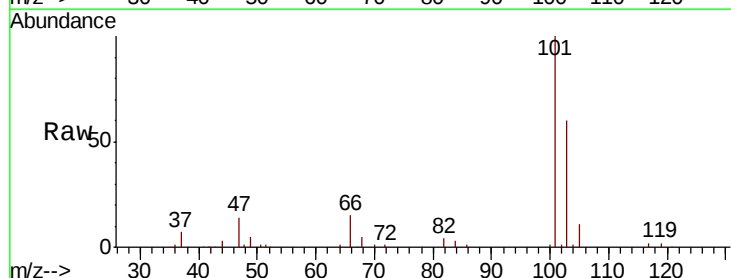
Acq: 13 Aug 2020 10:37

Tgt Ion:101 Resp: 59284

Ion Ratio Lower Upper

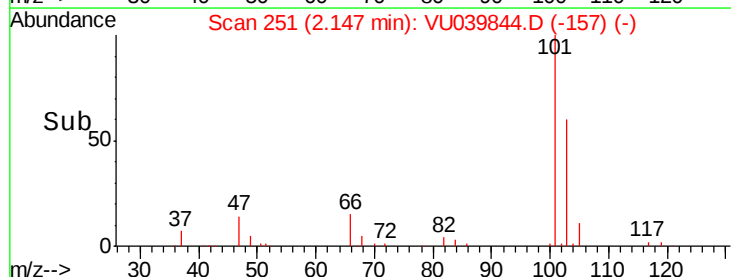
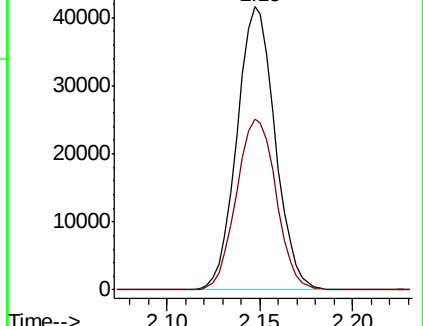
101 100

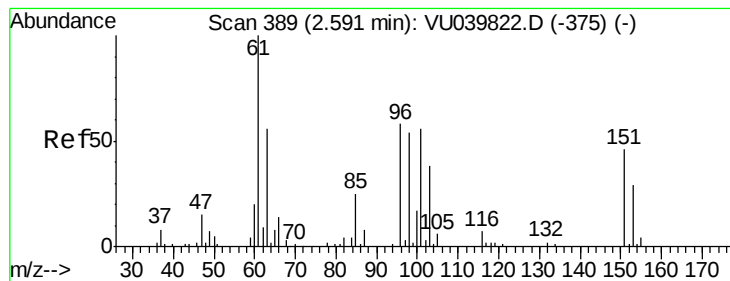
103 63.0 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU039822.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU039822.D (-239) (-)





#10

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

Concen: 4.973 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

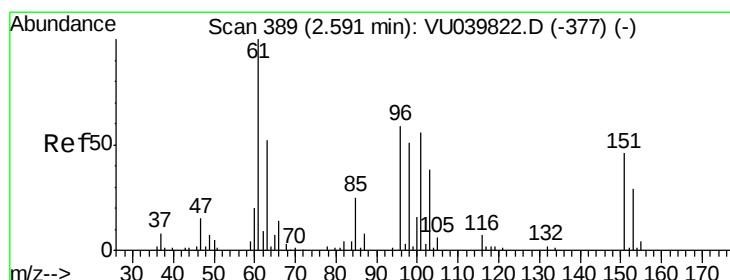
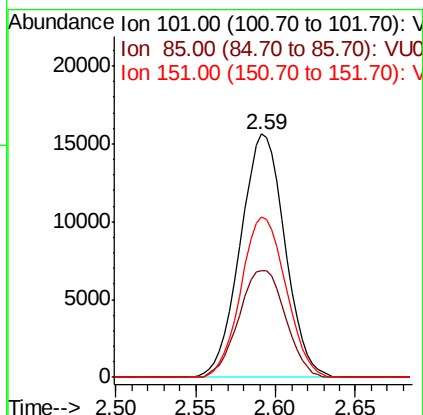
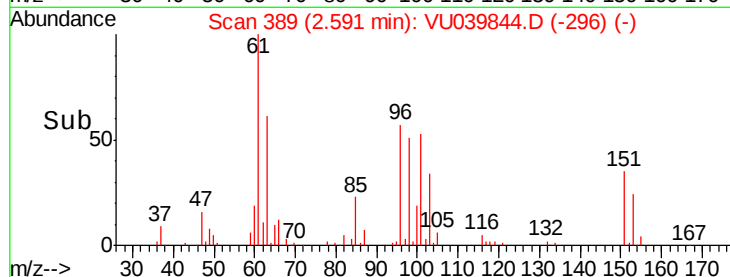
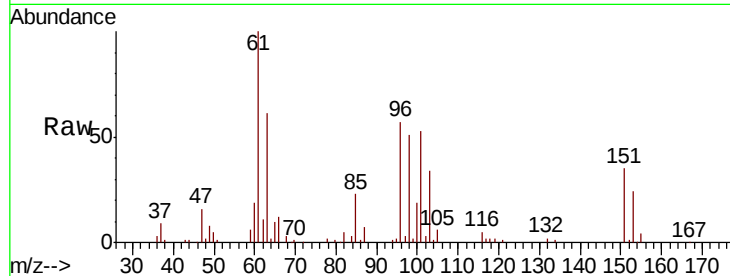
Tot Ion:101 Resp: 29853

Ion Ratio Lower Upper

101 100

85 45.9 37.9 56.9

151 66.2 54.7 82.1



#12

1,1-Dichloroethene

Concen: 5.231 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

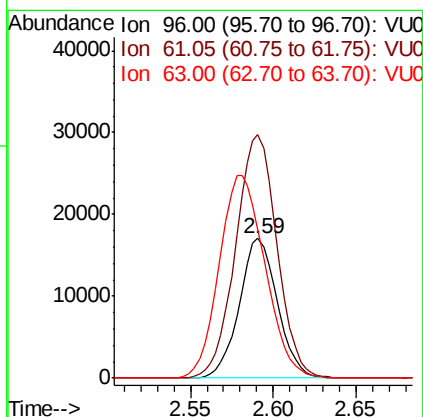
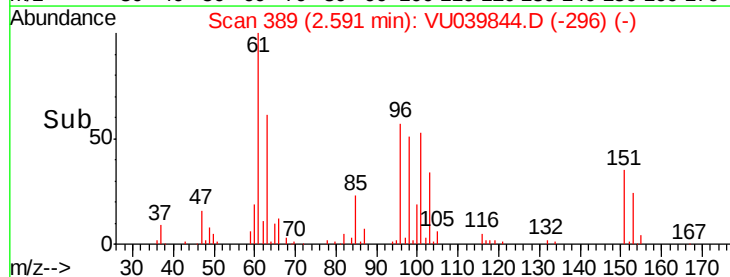
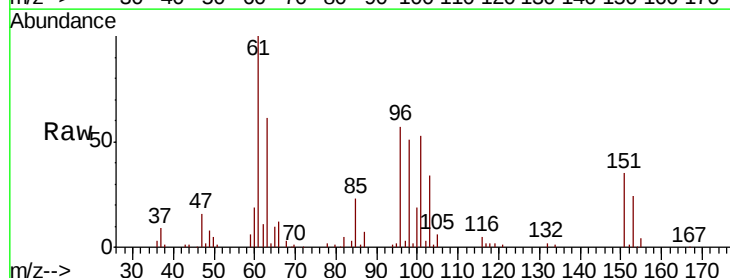
Tgt Ion: 96 Resp: 27298

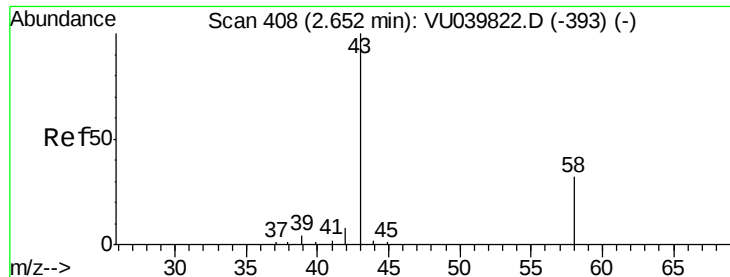
Ion Ratio Lower Upper

96 100

61 174.2 121.7 225.9

63 106.1 82.1 152.5





#13

Acetone

Concen: 50.632 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.02 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

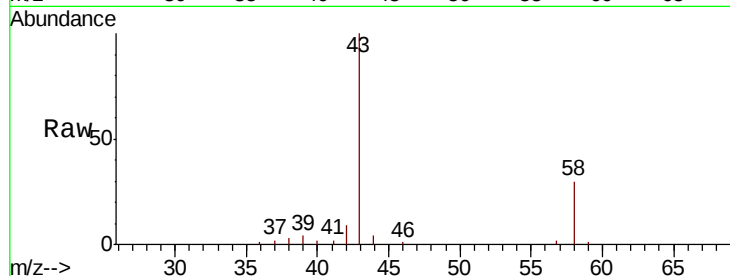
VSTD00519

Tot Ion: 43 Resp: 62023

Ion Ratio Lower Upper

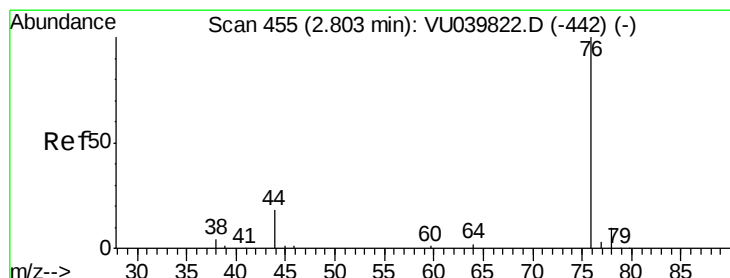
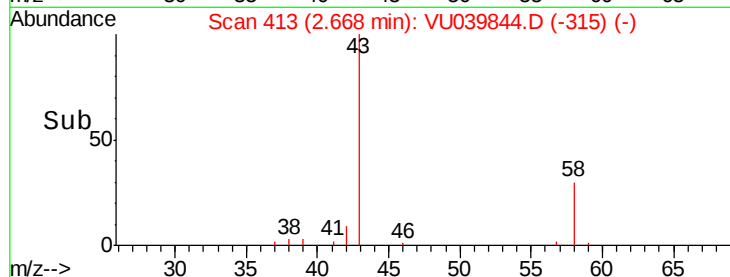
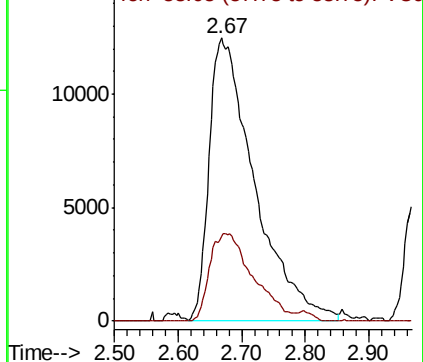
43 100

58 29.5 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU039822.D (-393) (-)

Ion 58.05 (57.75 to 58.75): VU039822.D (-393) (-)



#14

Carbon disulfide

Concen: 6.020 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU039844.D

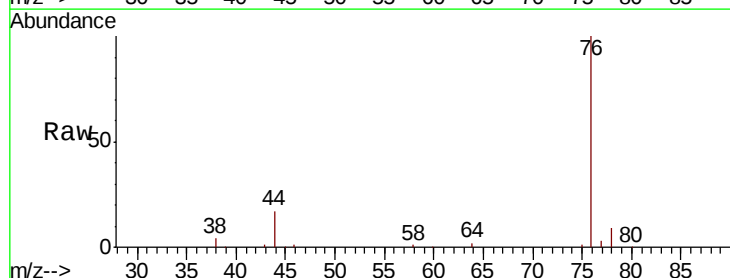
Acq: 13 Aug 2020 10:37

Tgt Ion: 76 Resp: 98233

Ion Ratio Lower Upper

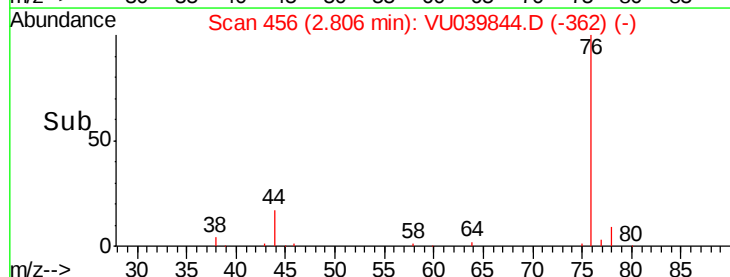
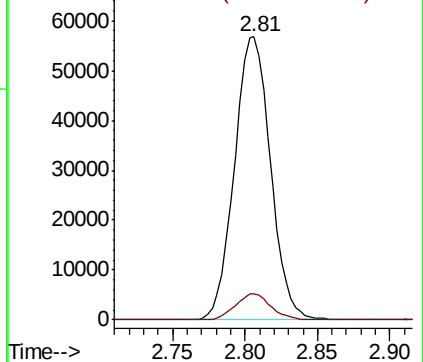
76 100

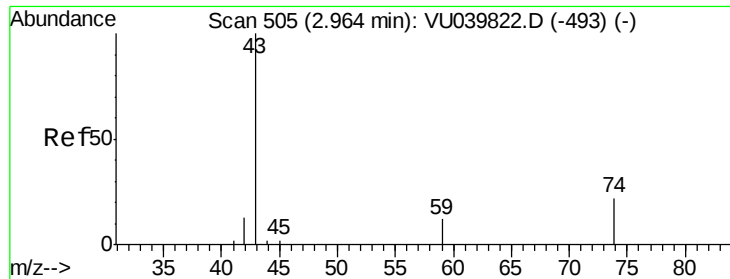
78 9.5 7.8 11.6



Abundance Ion 76.05 (75.75 to 76.75): VU039822.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU039822.D (-442) (-)

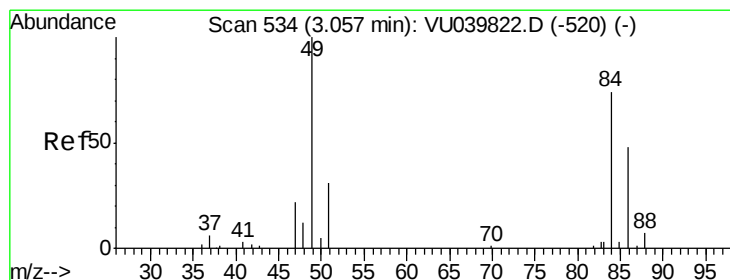
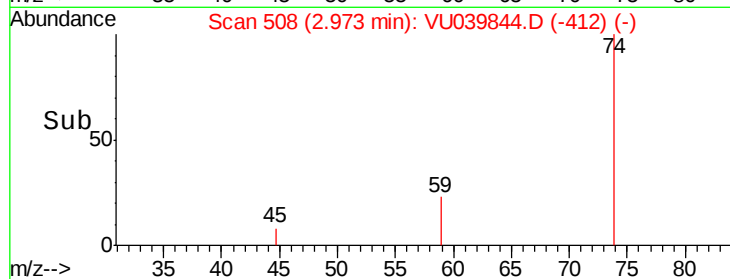
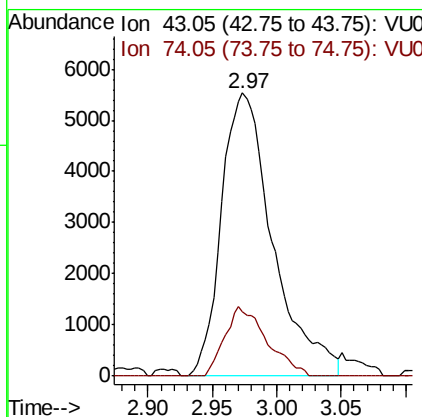
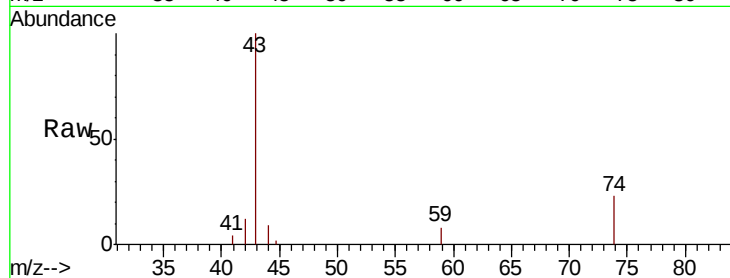




#15
Methvl Acetate
Concen: 5.080 ug/L
RT: 2.97 min Scan# 508
Delta R.T. 0.01 min
Lab File: VU039844.D
Acq: 13 Aug 2020 10:37

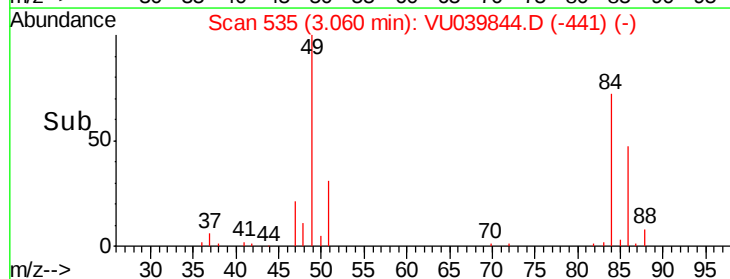
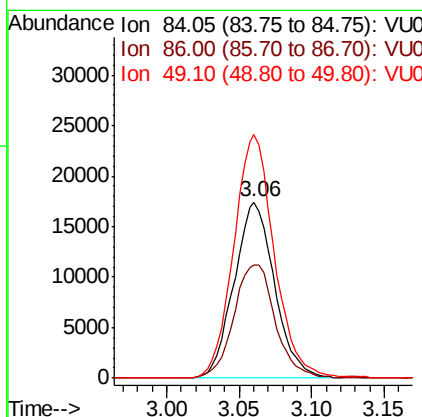
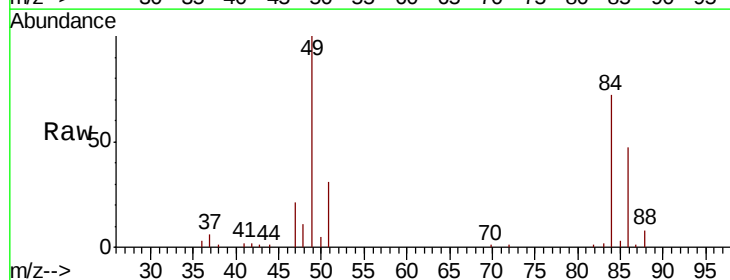
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

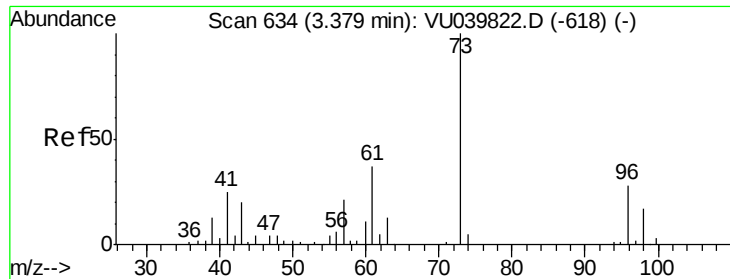
Tot Ion: 43 Resp: 15347
Ion Ratio Lower Upper
43 100
74 20.0 16.6 25.0



#16
Methylene chloride
Concen: 4.010 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU039844.D
Acq: 13 Aug 2020 10:37

Tgt Ion: 84 Resp: 33737
Ion Ratio Lower Upper
84 100
86 64.4 43.9 81.5
49 138.3 94.4 175.4

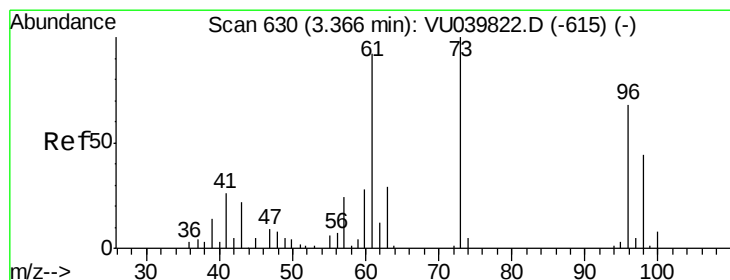
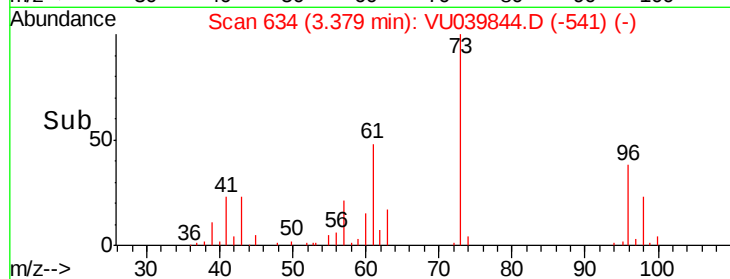
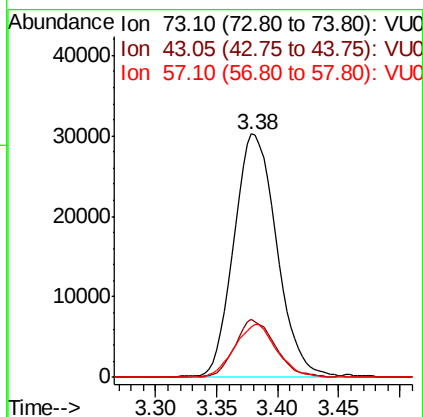
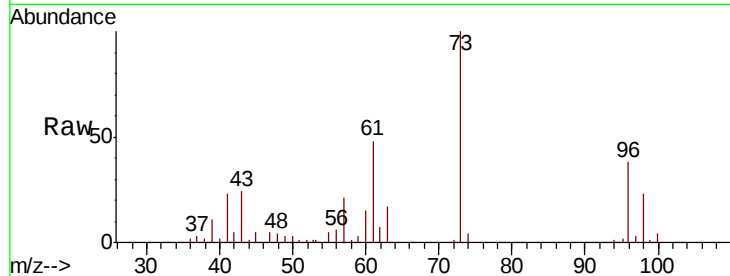




#17
Methvl tert-butvl Ether
Concen: 5.318 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU039844.D
Acq: 13 Aug 2020 10:37

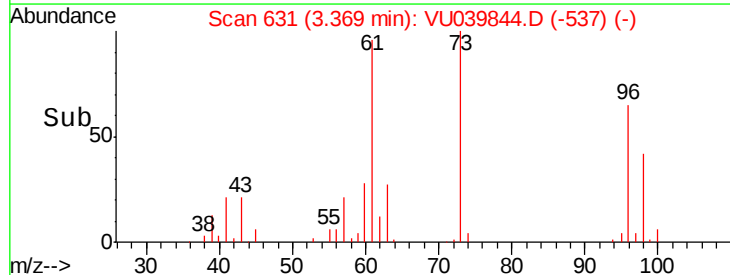
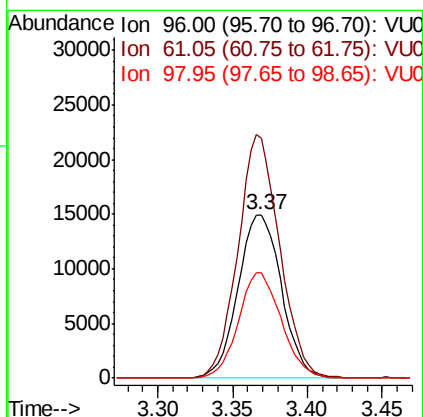
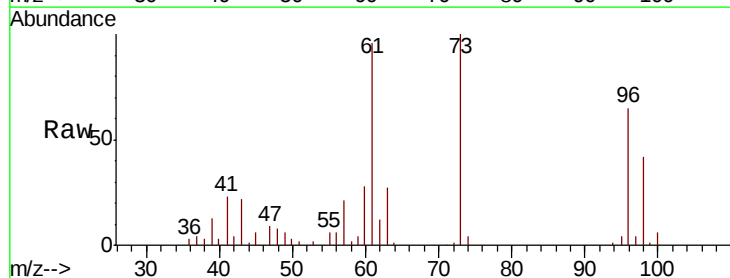
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

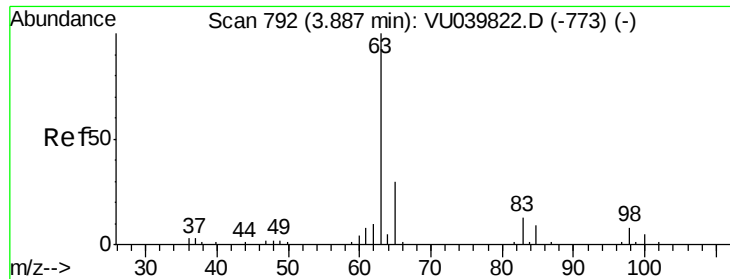
Tot Ion:	73	Resp:	73691
Ion	Ratio	Lower	Upper
73	100		
43	22.4	18.2	27.4
57	21.3	17.8	26.8



#18
trans-1,2-Dichloroethene
Concen: 5.183 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU039844.D
Acq: 13 Aug 2020 10:37

Tgt Ion:	96	Resp:	30113
Ion	Ratio	Lower	Upper
96	100		
61	147.1	96.5	179.1
98	64.8	40.9	76.0

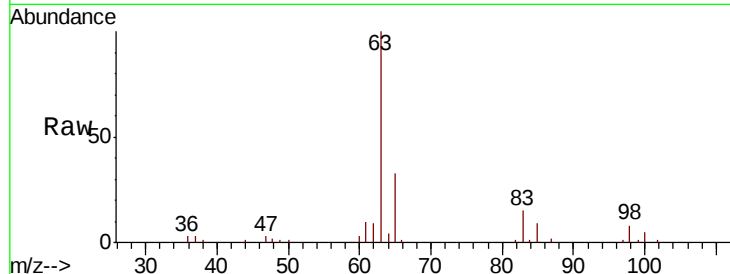




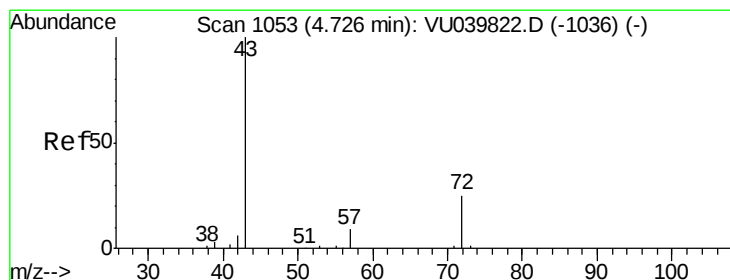
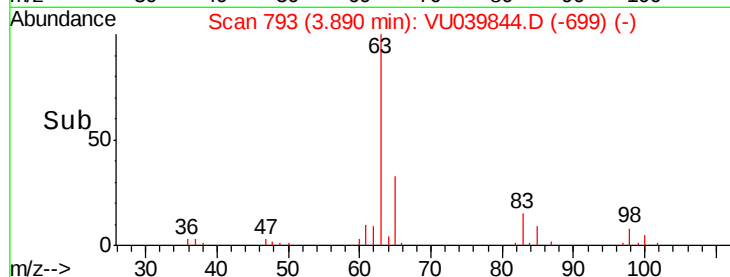
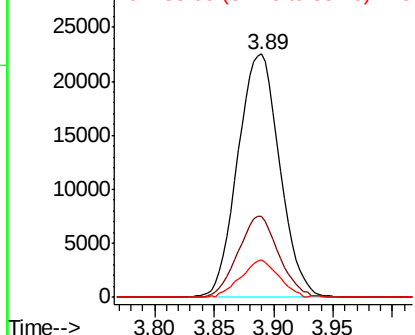
#19
 1,1-Dichloroethane
 Concen: 5.135 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion: 63 Resp: 55085
 Ion Ratio Lower Upper
 63 100
 65 33.4 22.0 41.0
 83 15.2 10.9 20.2

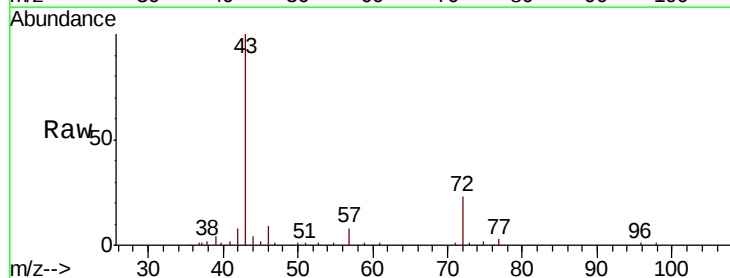


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

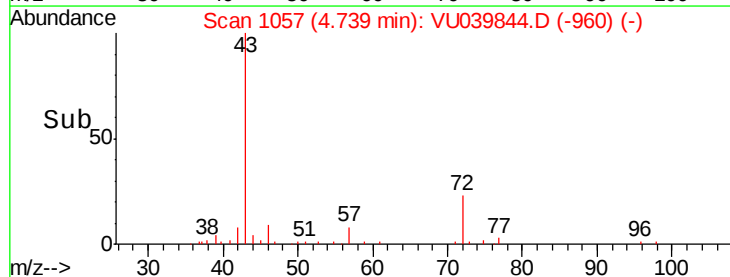
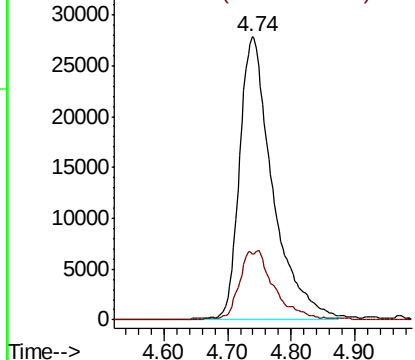


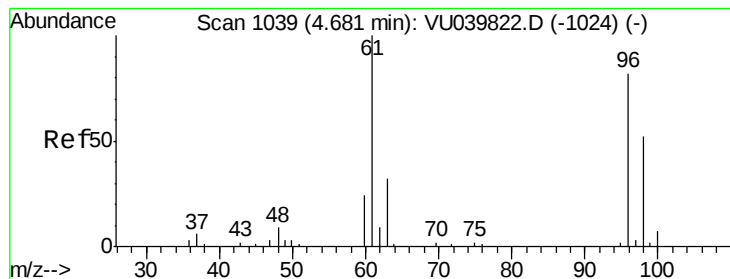
#21
 2-Butanone
 Concen: 52.406 ug/L
 RT: 4.74 min Scan# 1057
 Delta R.T. 0.01 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion: 43 Resp: 101168
 Ion Ratio Lower Upper
 43 100
 72 11.4 13.0 39.0#



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: 5.078 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

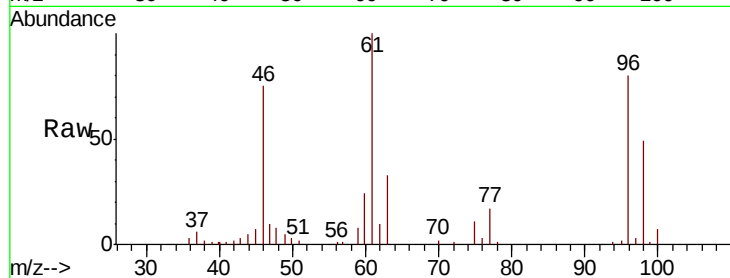
Tot Ion: 96 Resp: 32092

Ion Ratio Lower Upper

96 100

61 124.4 87.4 162.2

68 0.0 0.0 0.0

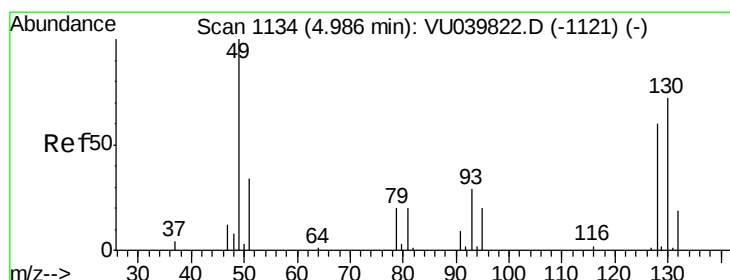
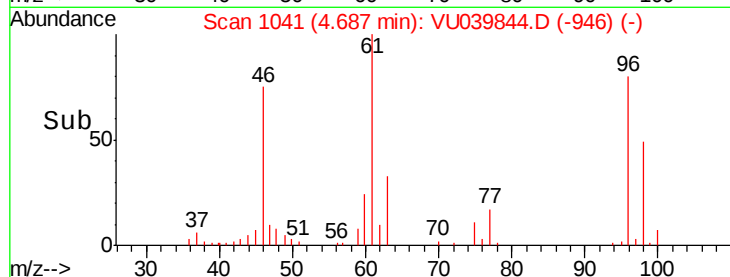
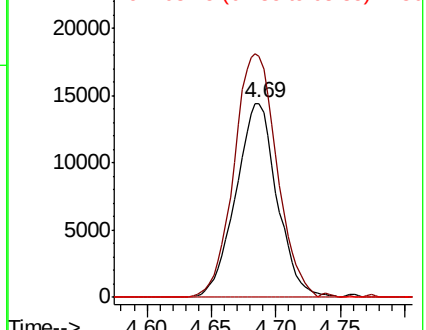


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.161 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Tgt Ion: 128 Resp: 15319

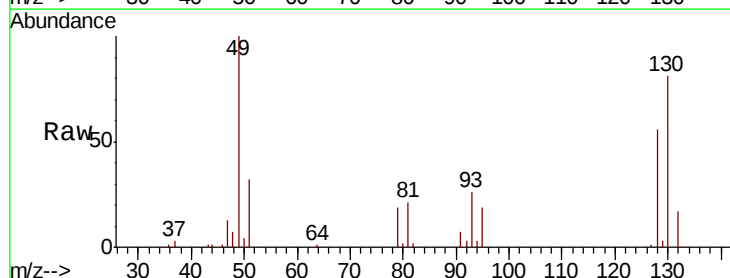
Ion Ratio Lower Upper

128 100

49 178.8 110.3 204.9

130 144.9 82.0 152.4

51 57.4 40.8 61.2



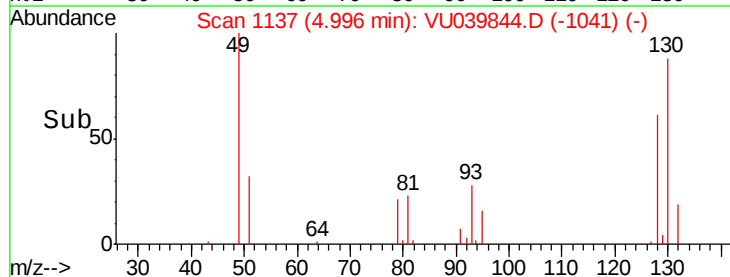
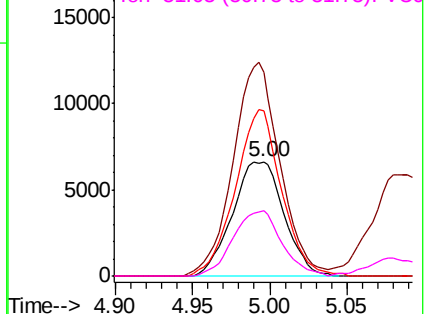
Abundance

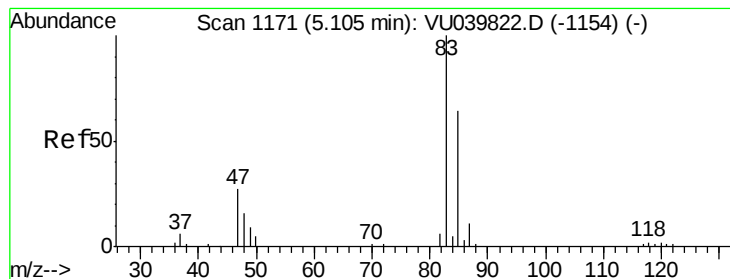
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 5.233 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

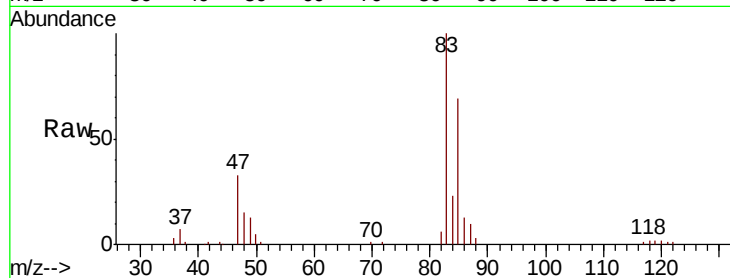
VSTD00519

Tot Ion: 83 Resp: 60337

Ion Ratio Lower Upper

83 100

85 68.8 42.1 78.3



Abundance Ion 83.05 (82.75 to 83.75): VU039822.D (-1154) (-)

Ion 85.00 (84.70 to 85.70): VU039822.D (-1154) (-)

5.11

30000

25000

20000

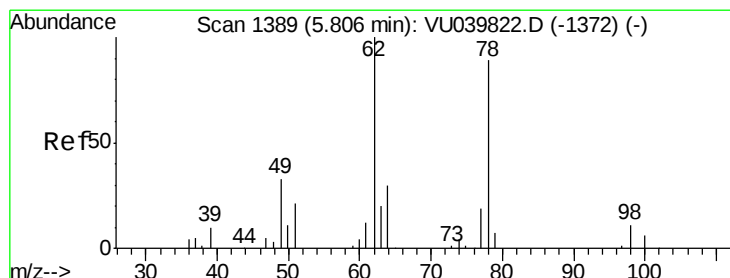
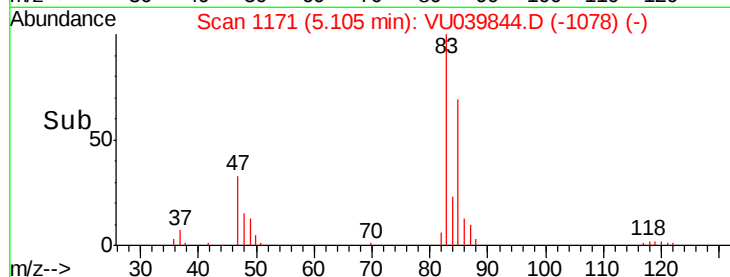
15000

10000

5000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#27

1,2-Dichloroethane

Concen: 4.934 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU039844.D

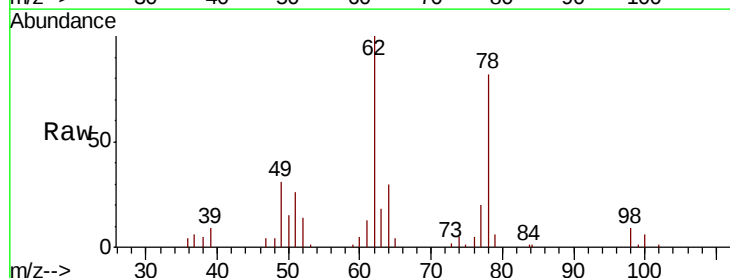
Acq: 13 Aug 2020 10:37

Tgt Ion: 62 Resp: 39207

Ion Ratio Lower Upper

62 100

98 8.8 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU039822.D (-1372) (-)

Ion 98.05 (97.75 to 98.75): VU039822.D (-1372) (-)

5.81

20000

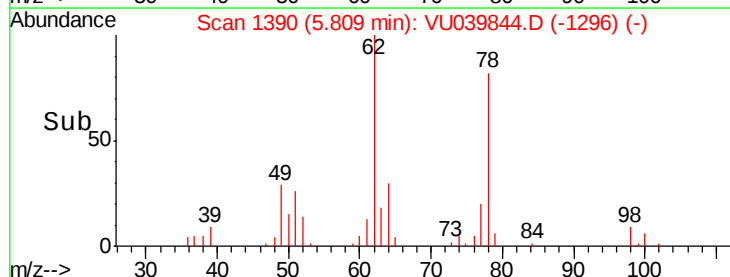
15000

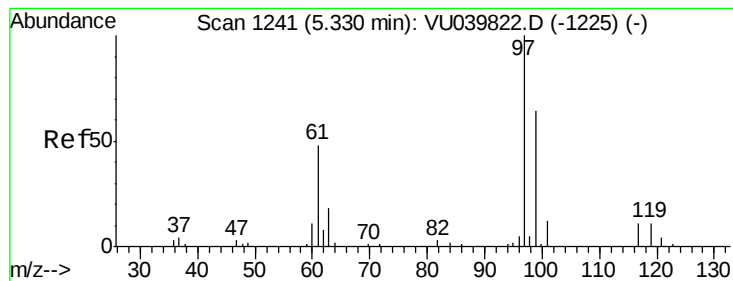
10000

5000

0

Time--> 5.70 5.75 5.80 5.85 5.90





#29

1,1,1-Trichloroethane

Concen: 5.477 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

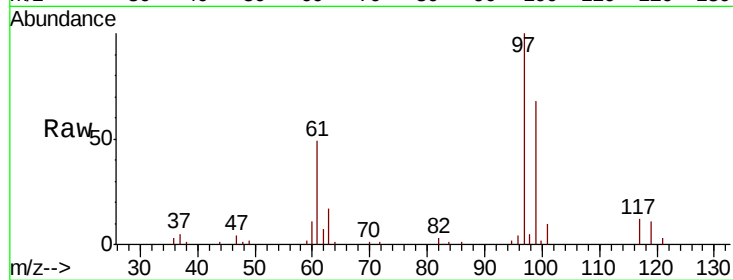
Tot Ion: 97 Resp: 51367

Ion Ratio Lower Upper

97 100

99 64.5 52.8 79.2

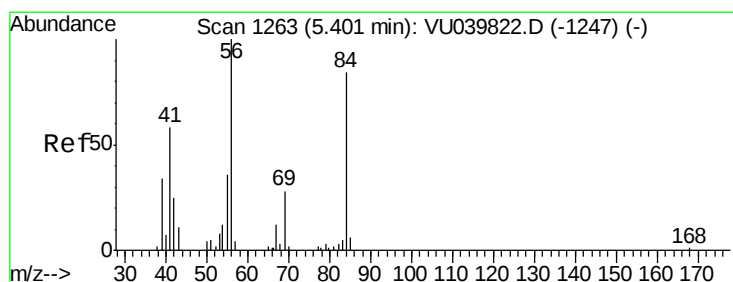
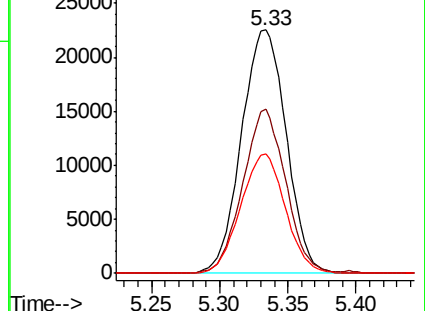
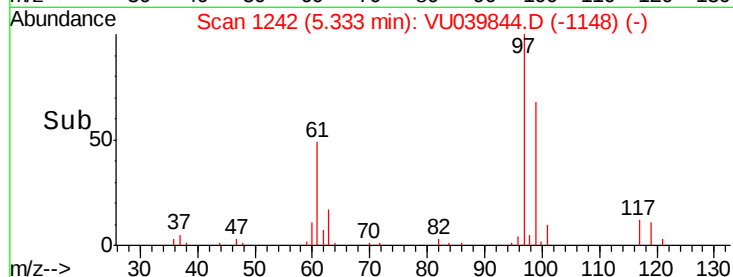
61 48.9 40.5 60.7



Abundance Ion 96.95 (96.65 to 97.65): VU039844.D (-1148) (-)

Ion 99.05 (98.75 to 99.75): VU039844.D (-1148) (-)

Ion 61.05 (60.75 to 61.75): VU039844.D (-1148) (-)



#30

Cyclohexane

Concen: 5.497 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

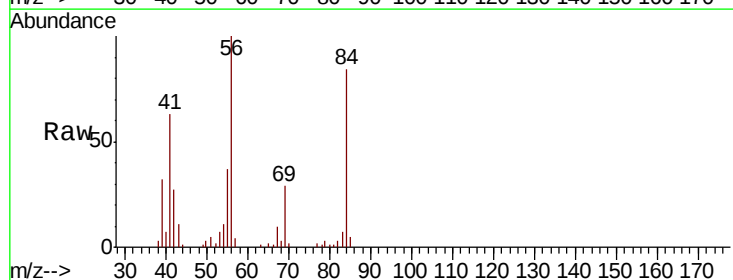
Tgt Ion: 56 Resp: 49607

Ion Ratio Lower Upper

56 100

69 31.3 24.4 36.6

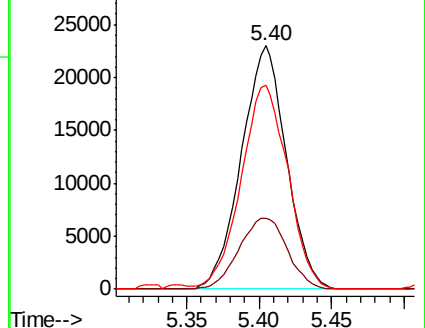
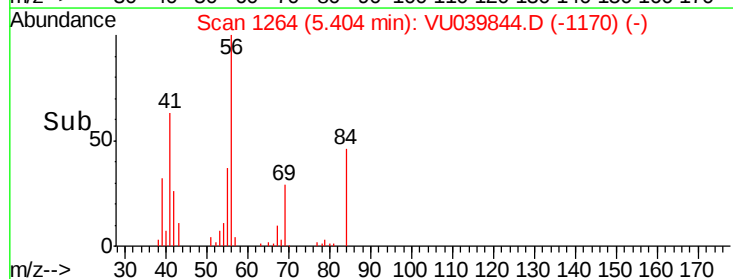
84 87.0 71.3 106.9

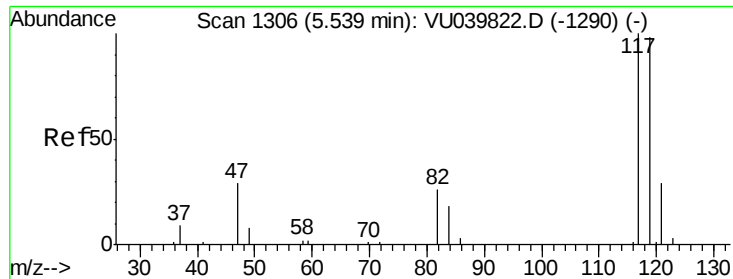


Abundance Ion 56.10 (55.80 to 56.80): VU039844.D (-1170) (-)

Ion 69.15 (68.85 to 69.85): VU039844.D (-1170) (-)

Ion 84.15 (83.85 to 84.85): VU039844.D (-1170) (-)





#31

Carbon tetrachloride

Concen: 5.321 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

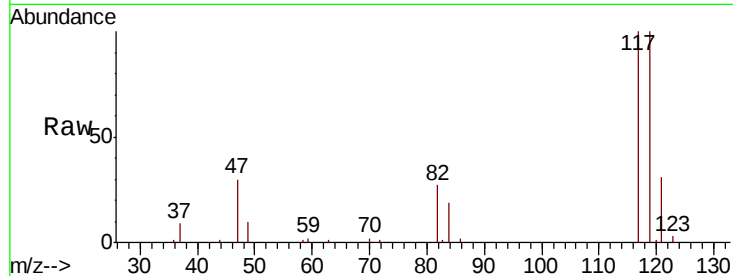
VSTD00519

Tot Ion:117 Resp: 45786

Ion Ratio Lower Upper

117 100

119 100.3 75.5 113.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.54

25000

20000

15000

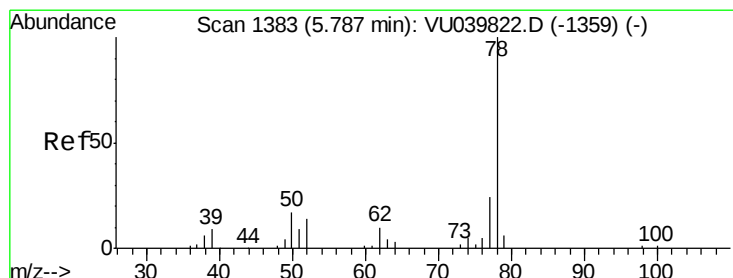
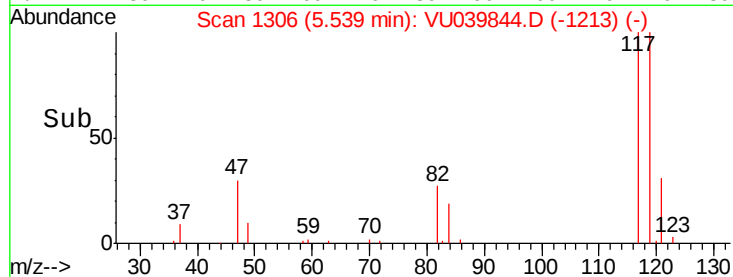
10000

5000

0

Time-->

5.45 5.50 5.55 5.60



#33

Benzene

Concen: 5.295 ug/L

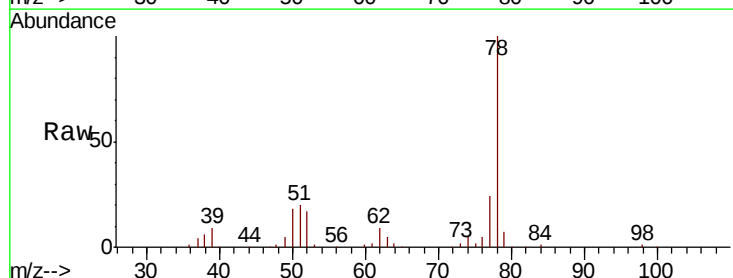
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Tgt Ion: 78 Resp: 121301



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.79

60000

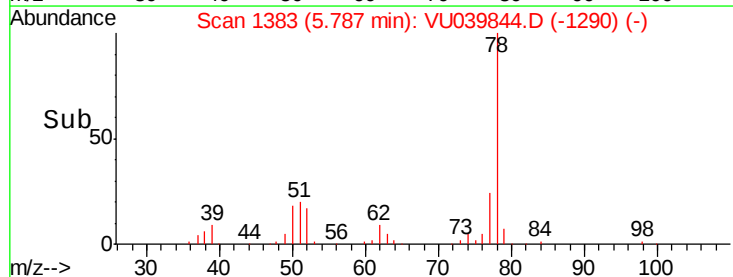
40000

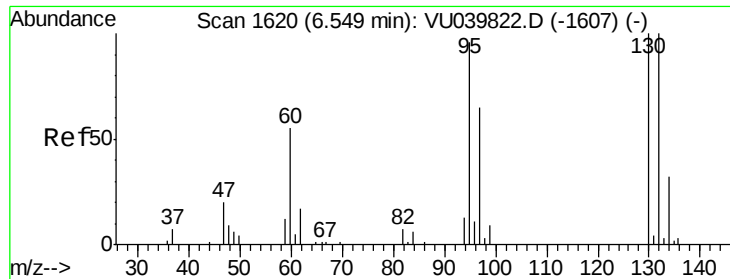
20000

0

Time-->

5.70 5.80 5.90

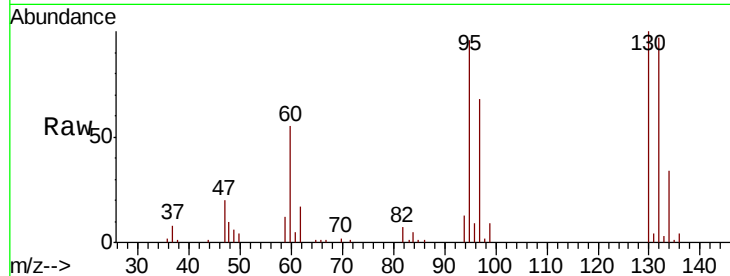




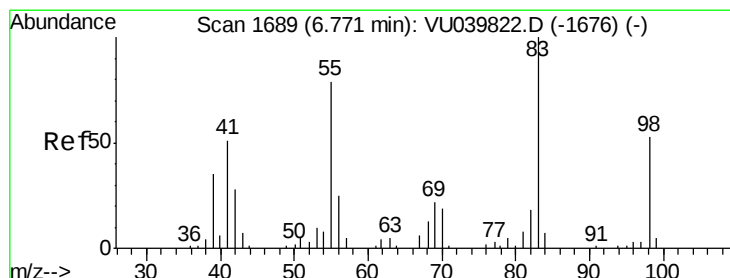
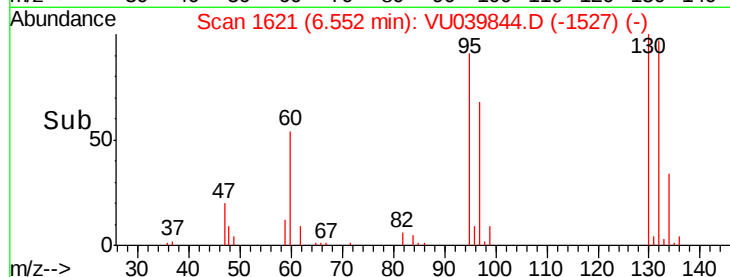
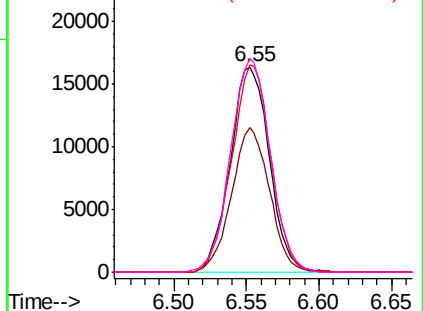
#34
 Trichloroethene
 Concen: 5.175 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion: 95 Resp: 30789
 Ion Ratio Lower Upper
 95 100
 97 70.5 44.0 81.8
 132 100.9 71.7 133.3
 130 104.1 71.1 132.1

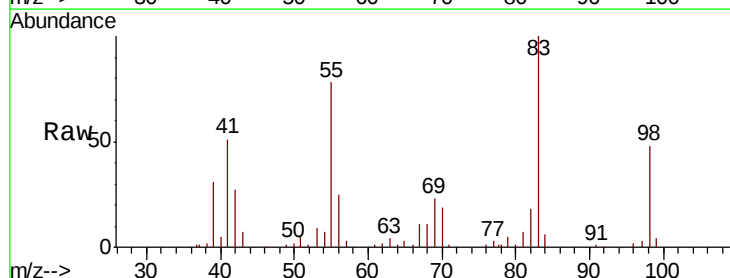


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

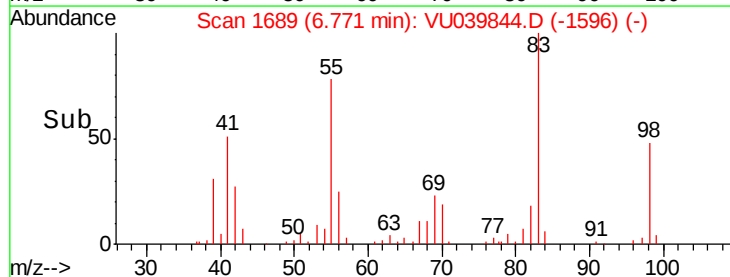
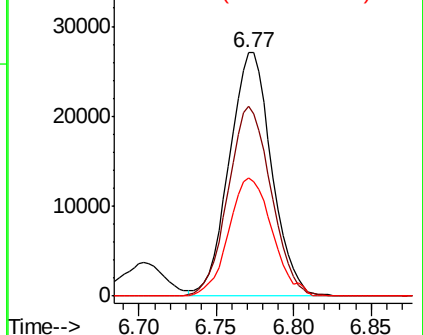


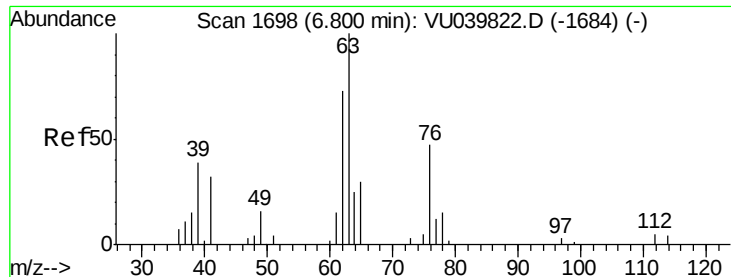
#35
 Methylcyclohexane
 Concen: 5.436 ug/L
 RT: 6.77 min Scan# 1689
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion: 83 Resp: 51618
 Ion Ratio Lower Upper
 83 100
 55 78.9 59.4 89.0
 98 49.7 39.0 58.4



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

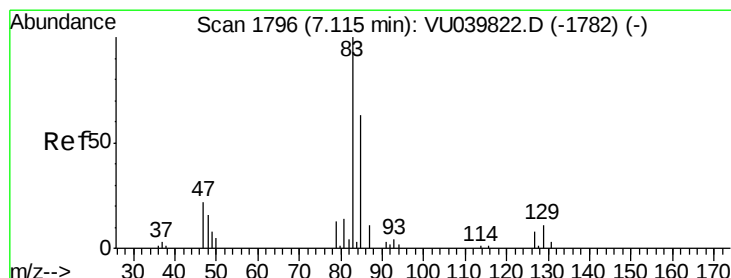
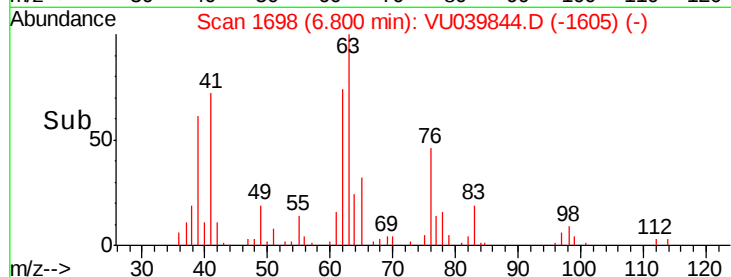
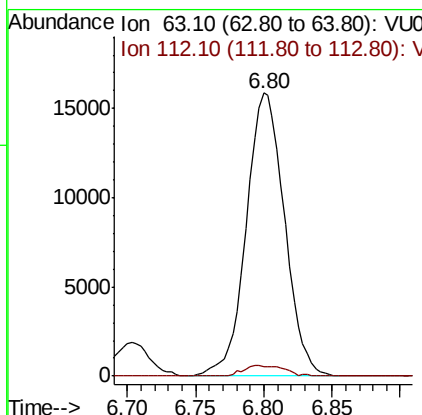
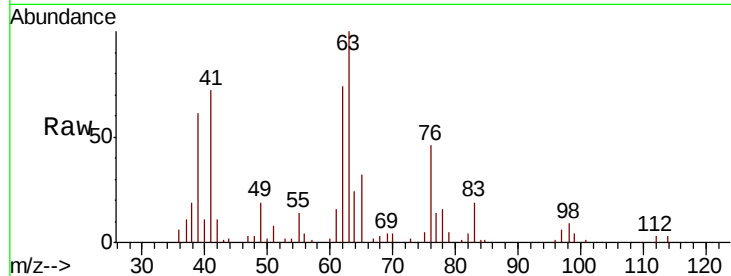




#37
 1,2-Dichloropropane
 Concen: 5.071 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

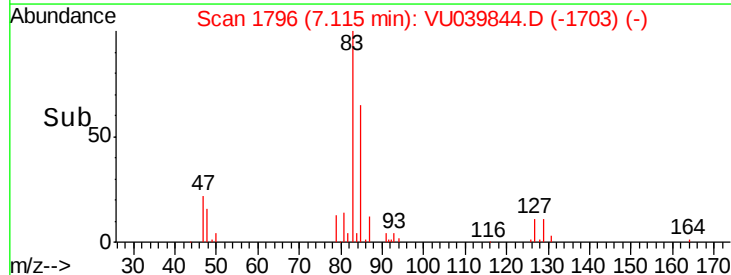
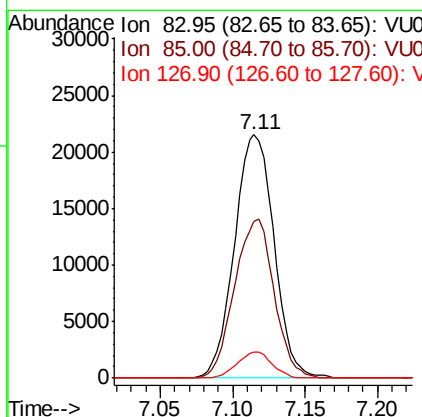
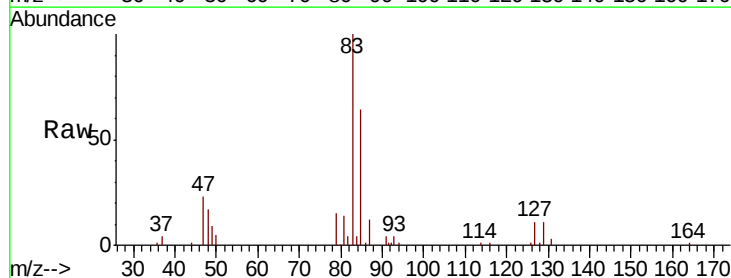
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

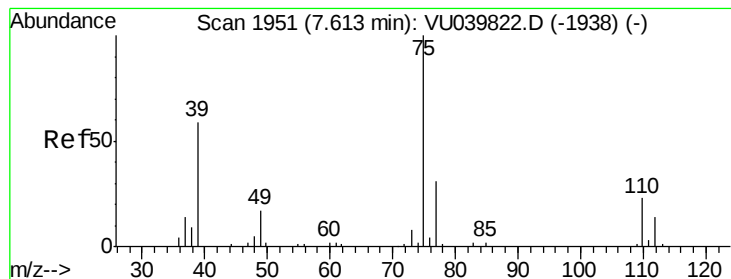
Tot Ion: 63 Resp: 30852
 Ion Ratio Lower Upper
 63 100
 112 2.4 3.8 5.6#



#38
 Bromodichloromethane
 Concen: 5.130 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion: 83 Resp: 40835
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.3 84.1
 127 10.9 7.5 11.3



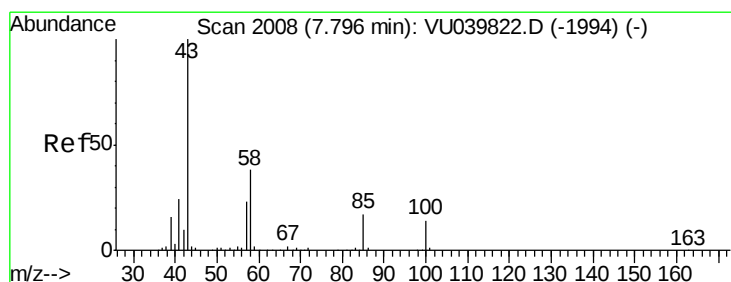
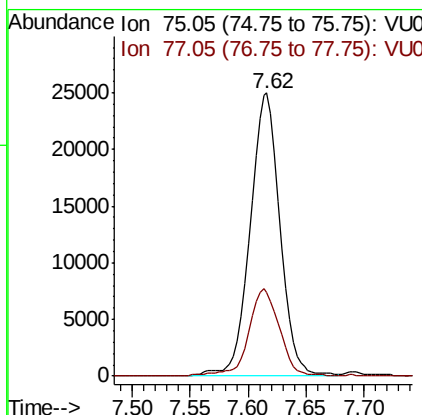
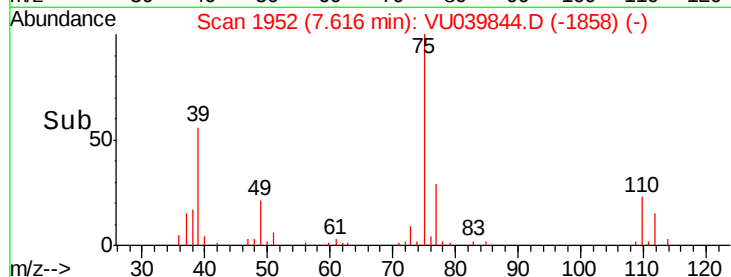
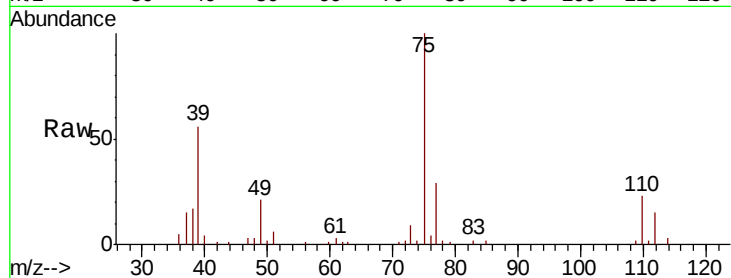


#39

cis-1,3-Dichloropropene
 Concen: 5.442 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

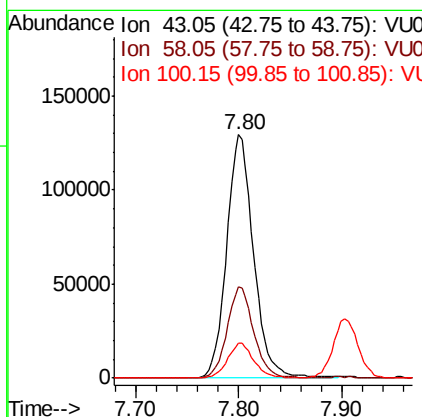
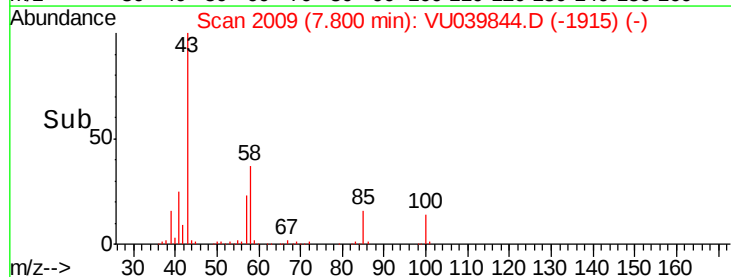
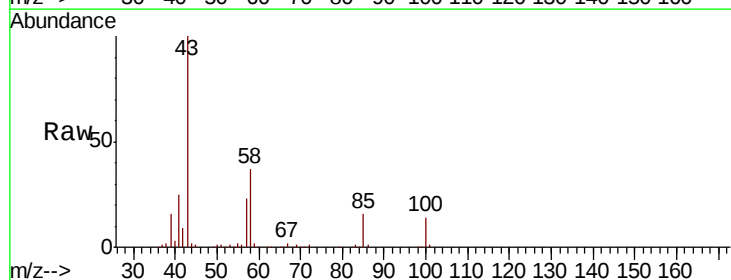
Tot Ion: 75 Resp: 45157
 Ion Ratio Lower Upper
 75 100
 77 29.4 22.4 41.6

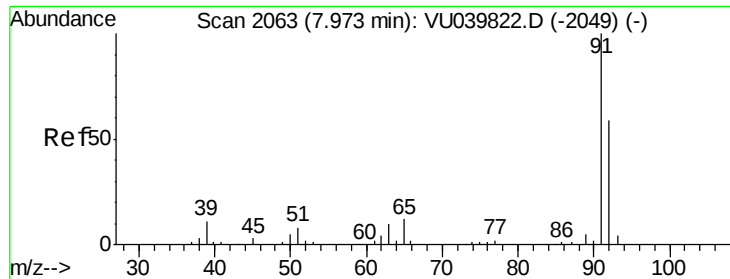


#40

4-Methyl-2-pentanone
 Concen: 51.794 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion: 43 Resp: 235496
 Ion Ratio Lower Upper
 43 100
 58 37.0 29.4 44.2
 100 14.1 11.7 17.5





#42

Toluene

Concen: 5.347 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

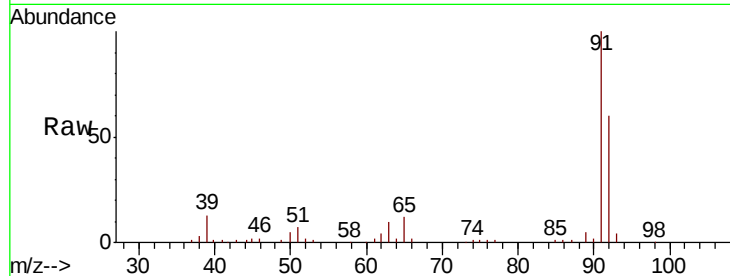
VSTD00519

Tot Ion: 91 Resp: 128710

Ion Ratio Lower Upper

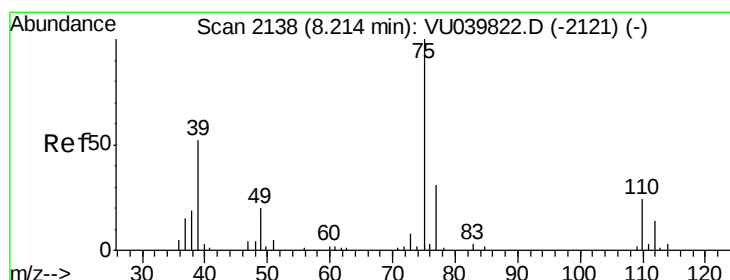
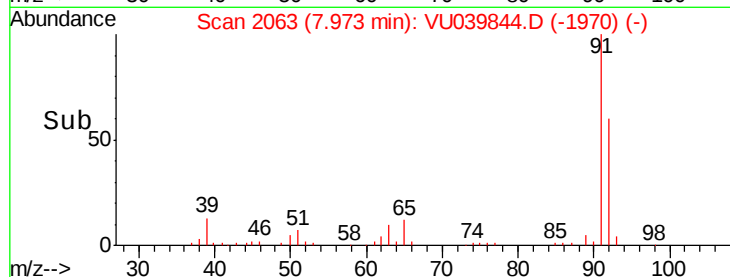
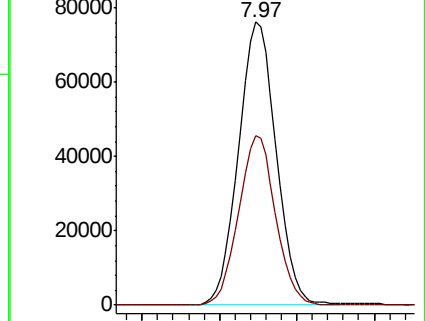
91 100

92 59.8 41.6 77.3



Abundance Ion 91.15 (90.85 to 91.85): VU039822.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU039822.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.249 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU039844.D

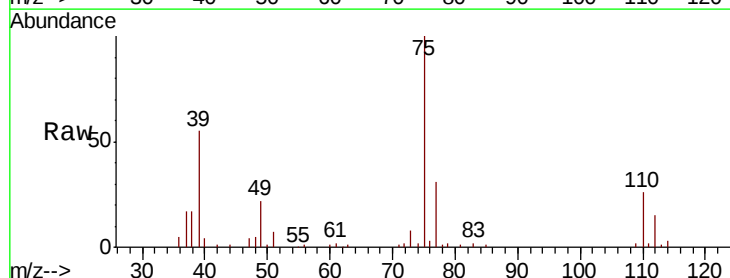
Acq: 13 Aug 2020 10:37

Tgt Ion: 75 Resp: 39242

Ion Ratio Lower Upper

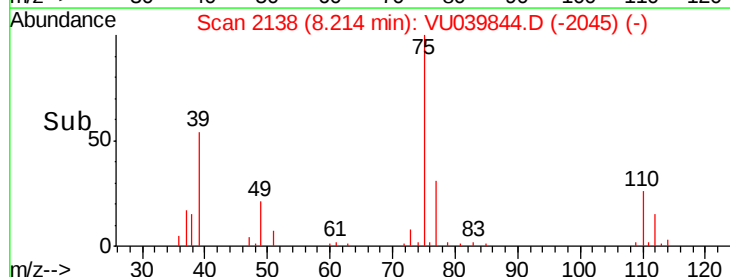
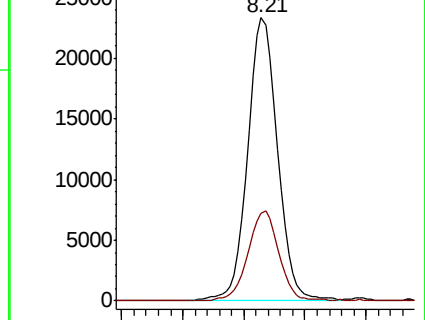
75 100

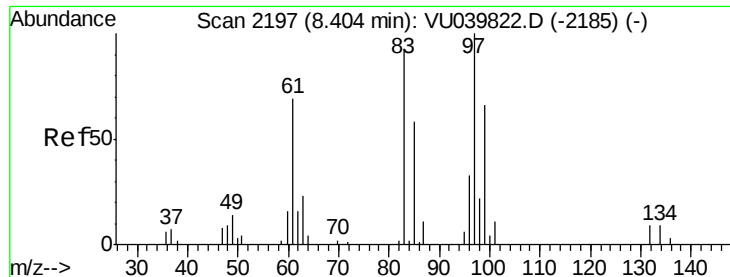
77 30.8 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VU039822.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU039822.D (-2121) (-)

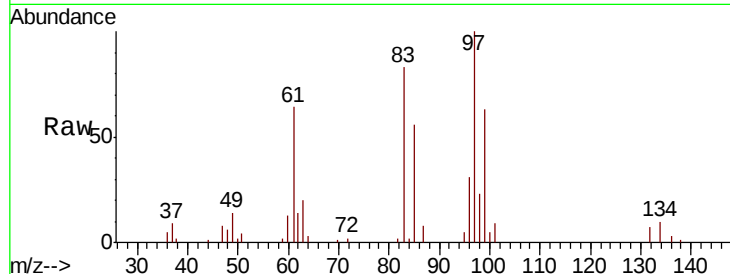




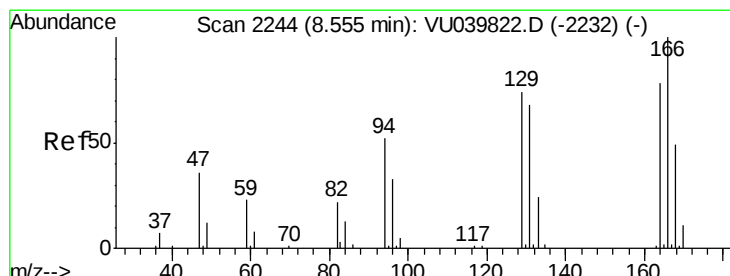
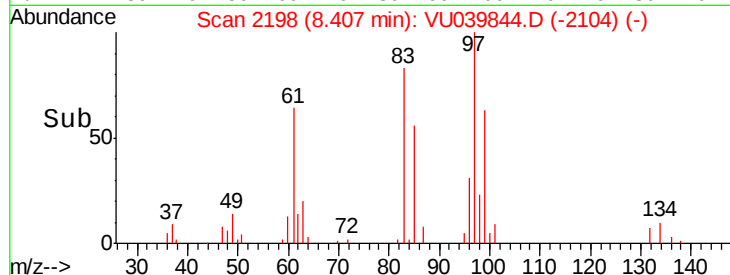
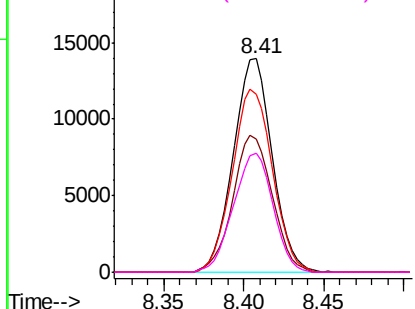
#45
 1,1,2-Trichloroethane
 Concen: 5.068 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion:	97	Resp:	23193
Ion	Ratio	Lower	Upper
97	100		
99	62.6	42.0	78.0
83	83.2	55.2	102.4
85	55.7	37.0	68.6

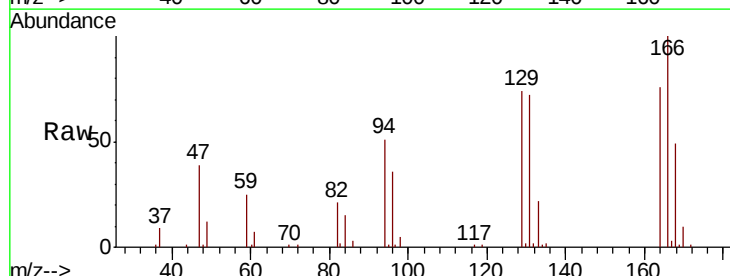


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

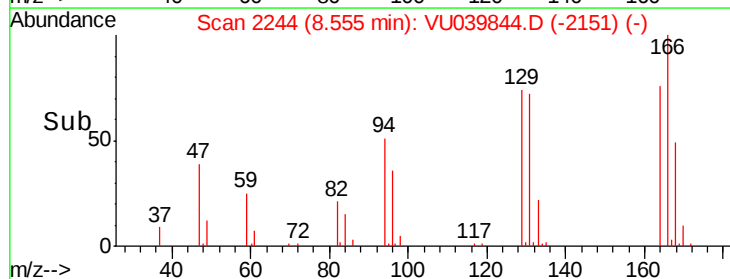
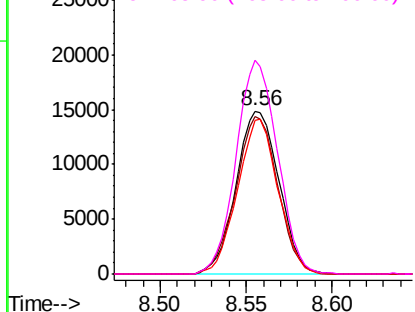


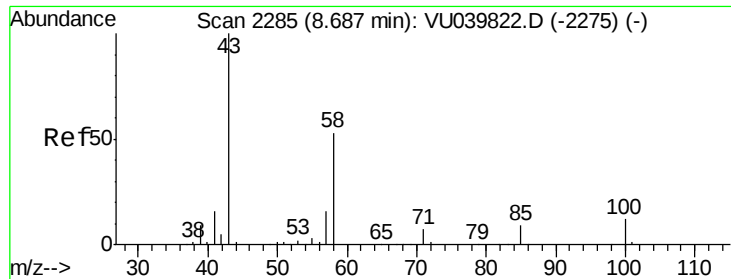
#47
 Tetrachloroethene
 Concen: 5.223 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion:	164	Resp:	25633
Ion	Ratio	Lower	Upper
164	100		
129	96.9	65.9	122.5
131	94.5	68.1	126.5
166	131.2	84.5	156.9



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

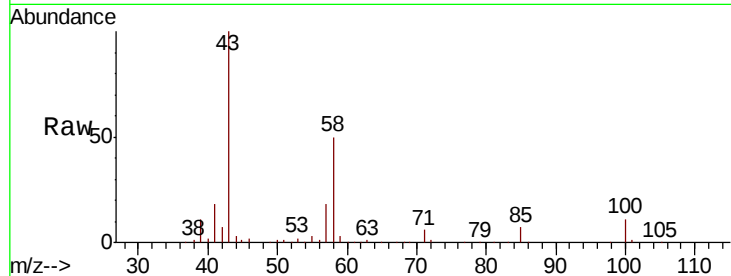




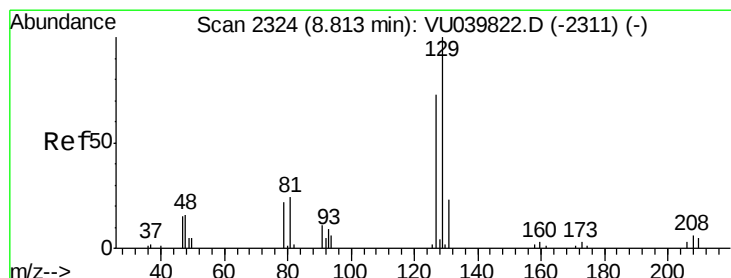
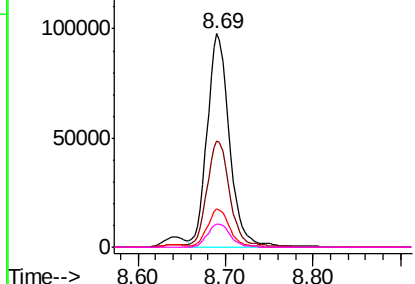
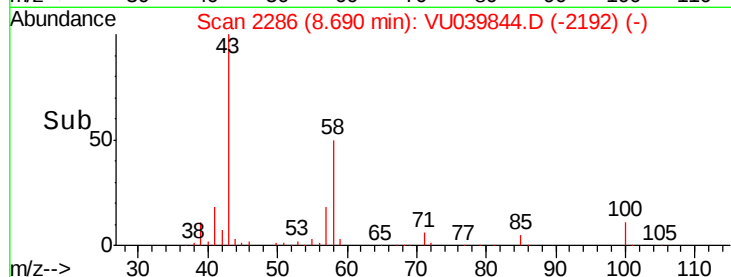
#48
2-Hexanone
Concen: 53.067 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU039844.D
Acq: 13 Aug 2020 10:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tot Ion: 43 Resp: 174236
Ion Ratio Lower Upper
43 100
58 50.4 41.8 62.8
57 17.9 14.2 21.4
100 11.3 9.4 14.2

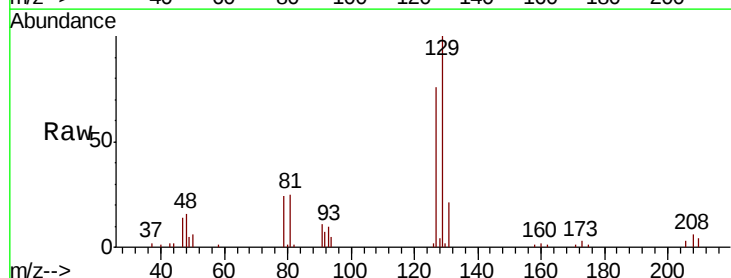


Abundance Ion 43.05 (42.75 to 43.75): VU0
150000 Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

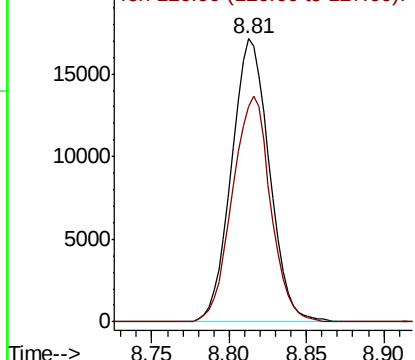
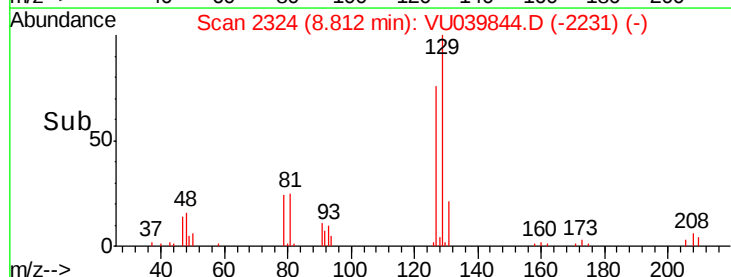


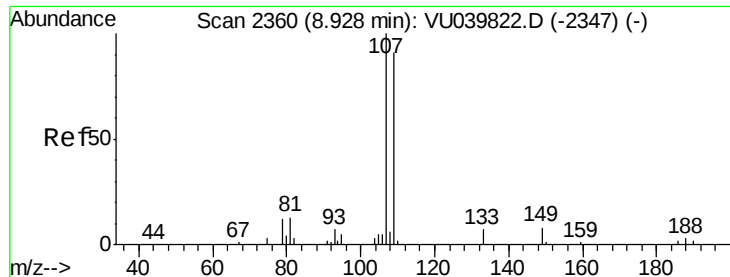
#49
Dibromochloromethane
Concen: 5.174 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU039844.D
Acq: 13 Aug 2020 10:37

Tgt Ion: 129 Resp: 29059
Ion Ratio Lower Upper
129 100
127 76.0 53.0 98.4



Abundance Ion 128.95 (128.65 to 129.65): V
20000 Ion 126.90 (126.60 to 127.60): V

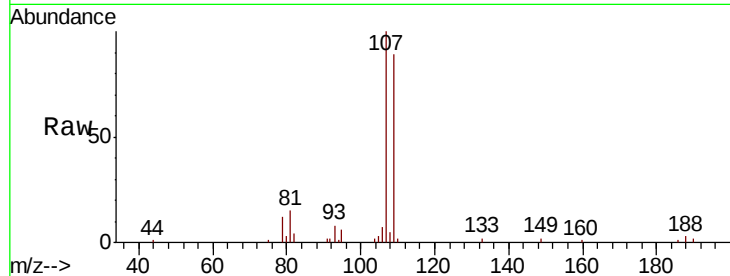




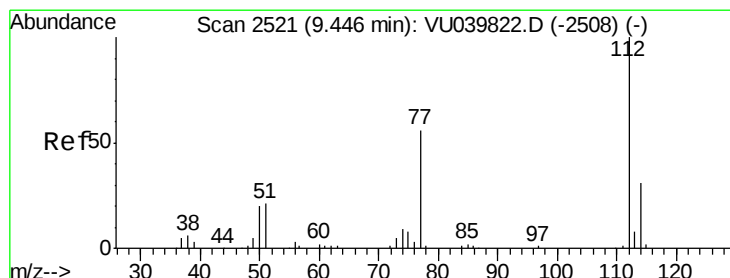
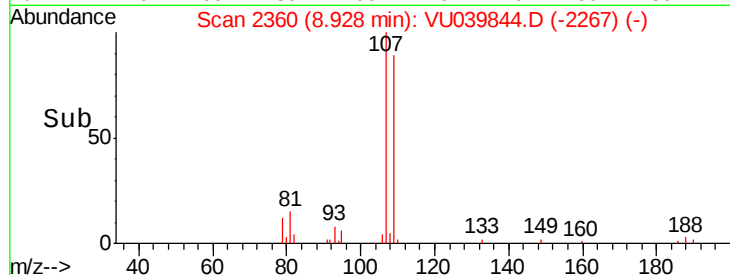
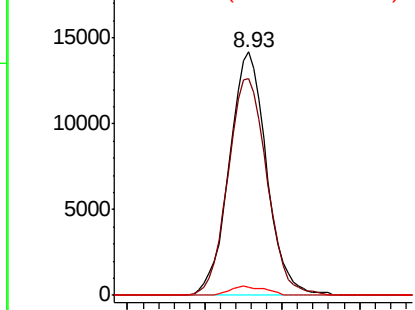
#50
 1,2-Dibromoethane
 Concen: 5.268 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion:107 Resp: 23641
 Ion Ratio Lower Upper
 107 100
 109 88.8 63.9 118.7
 188 3.3 2.9 4.3

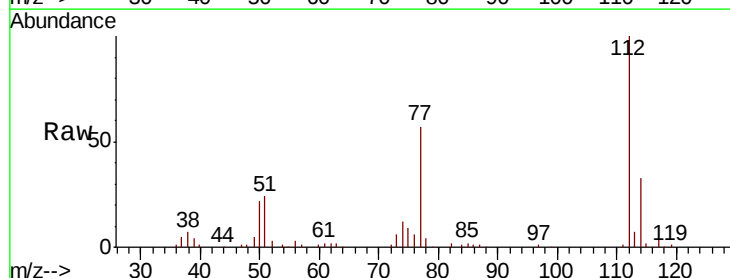


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

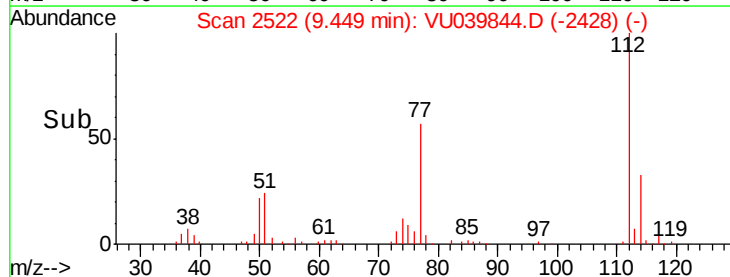
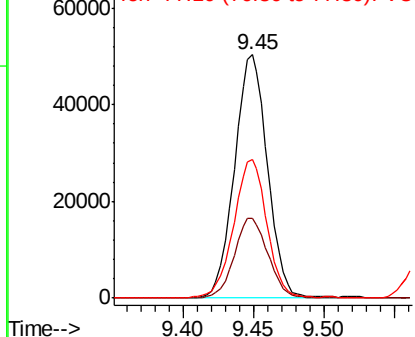


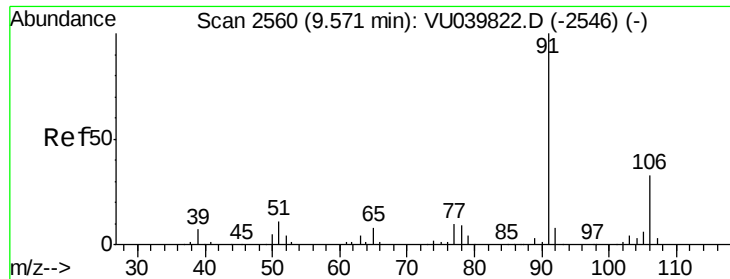
#51
 Chlorobenzene
 Concen: 5.104 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion:112 Resp: 82559
 Ion Ratio Lower Upper
 112 100
 114 32.8 23.2 43.0
 77 57.2 47.8 71.6



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): VU





#52

Ethylbenzene

Concen: 5.169 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

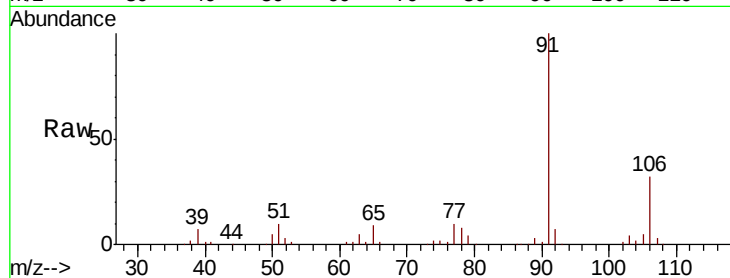
VSTD00519

Tot Ion: 91 Resp: 139282

Ion Ratio Lower Upper

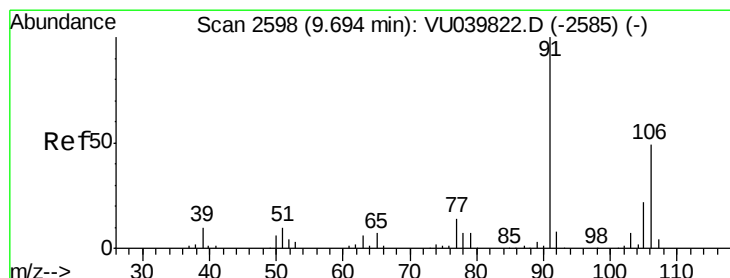
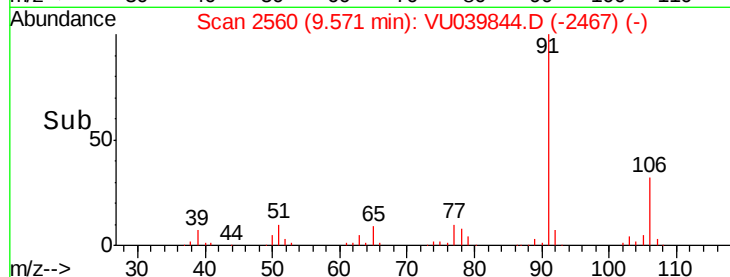
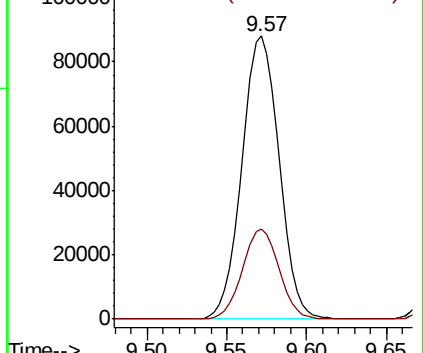
91 100

106 32.0 22.8 42.4



Abundance Ion 91.15 (90.85 to 91.85): VU039822.D (-2546) (-)

Ion 106.15 (105.85 to 106.85): VU039822.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.307 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039844.D

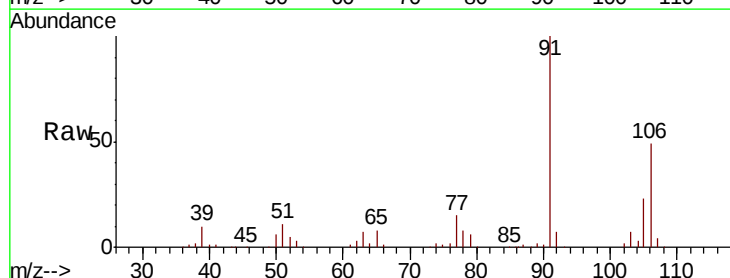
Acq: 13 Aug 2020 10:37

Tgt Ion: 106 Resp: 54452

Ion Ratio Lower Upper

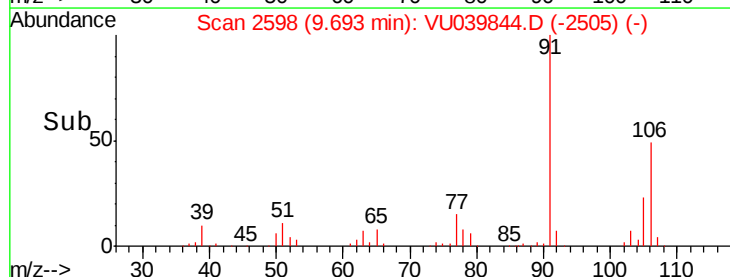
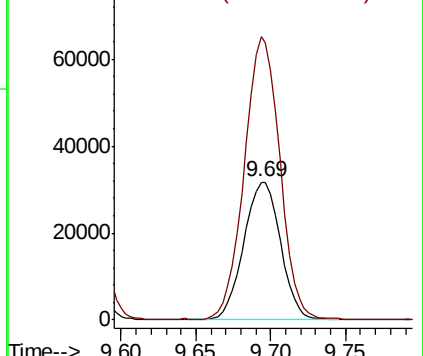
106 100

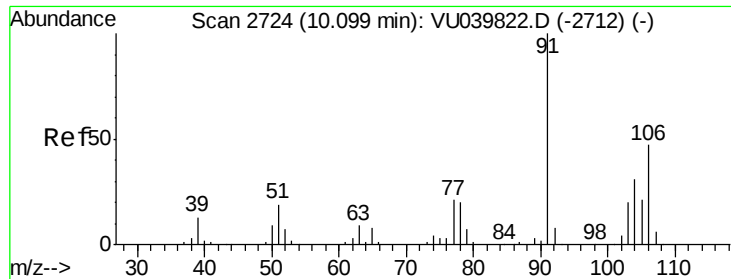
91 205.5 135.5 251.7



Abundance Ion 106.15 (105.85 to 106.85): VU039822.D (-2585) (-)

Ion 91.15 (90.85 to 91.85): VU039822.D (-2585) (-)





#54

o-Xylene

Concen: 5.157 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

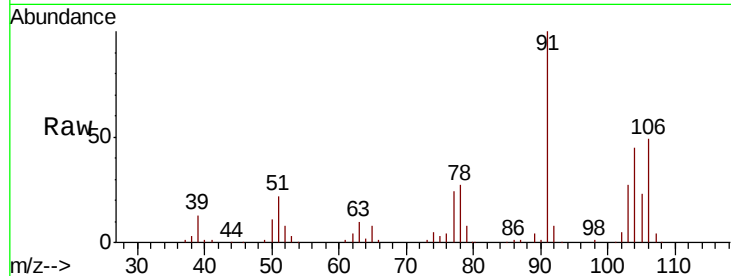
VSTD00519

Tot Ion:106 Resp: 51816

Ion Ratio Lower Upper

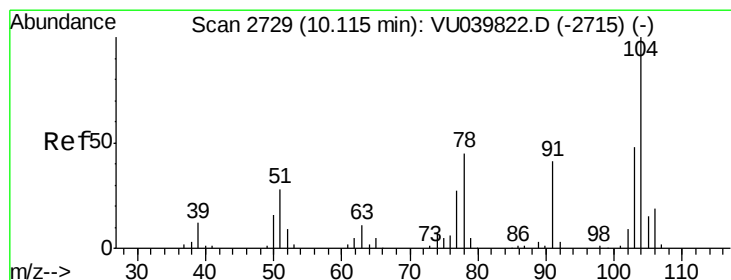
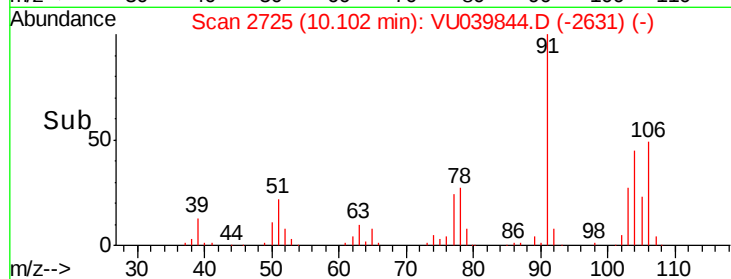
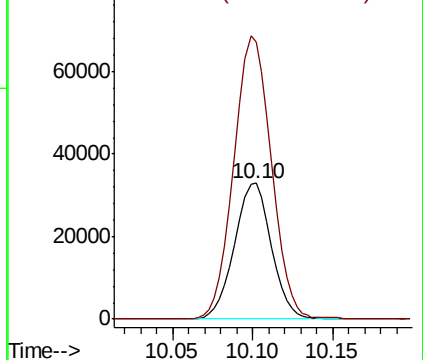
106 100

91 203.9 140.8 261.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.337 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU039844.D

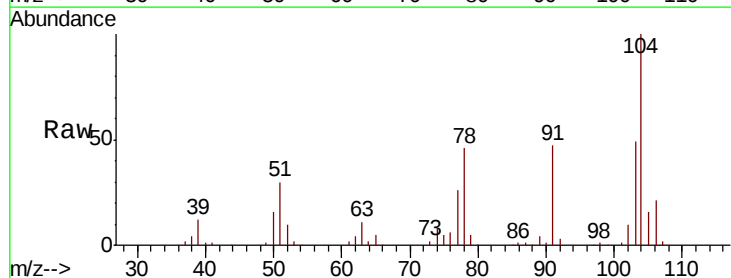
Acq: 13 Aug 2020 10:37

Tgt Ion:104 Resp: 90299

Ion Ratio Lower Upper

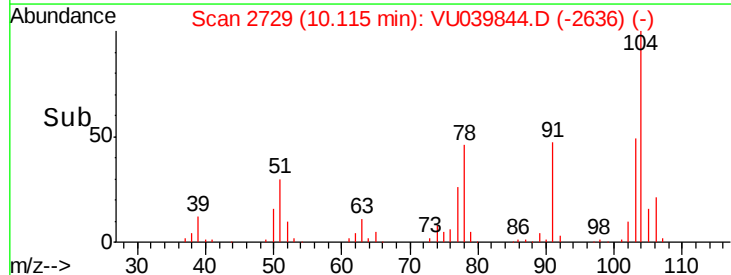
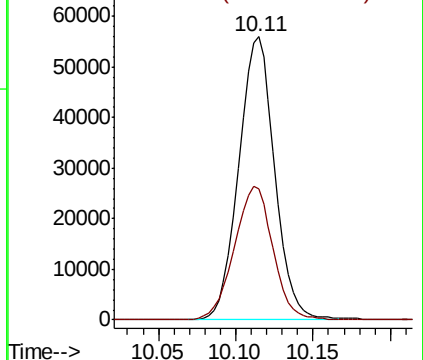
104 100

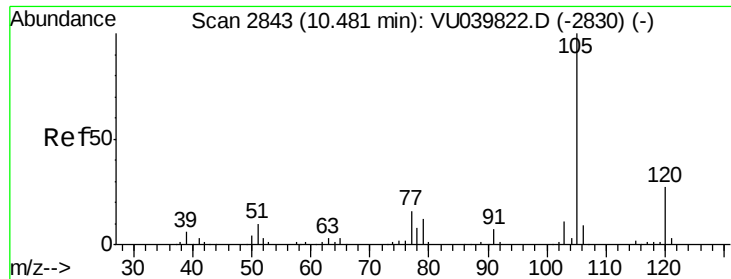
78 46.2 32.3 60.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.128 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

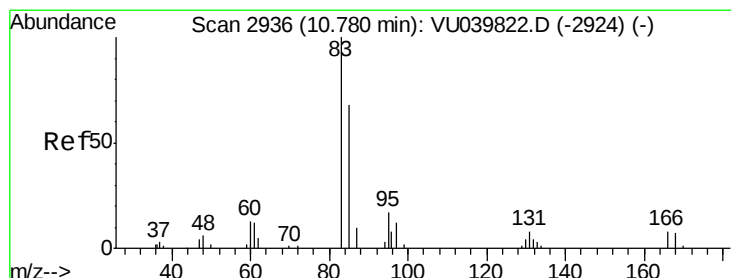
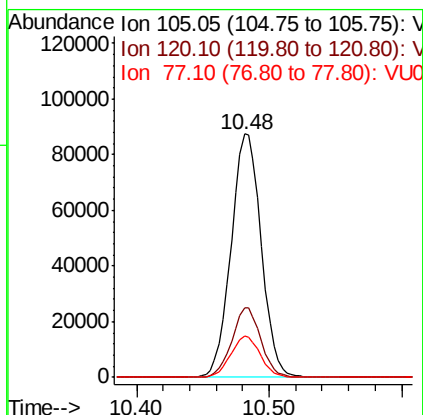
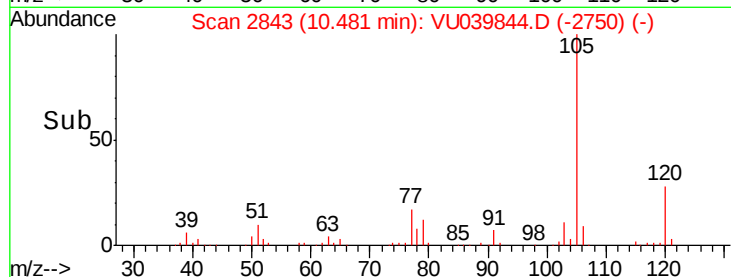
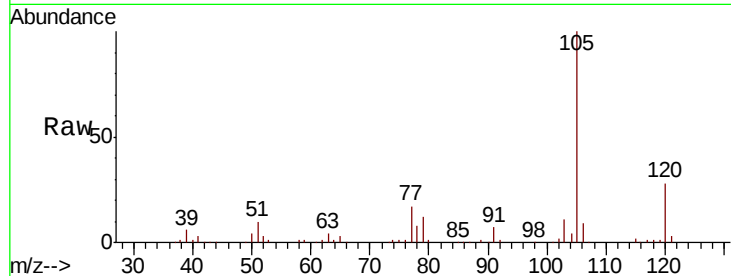
Tot Ion:105 Resp: 137696

Ion Ratio Lower Upper

105 100

120 27.3 21.0 31.6

77 16.6 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 4.861 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

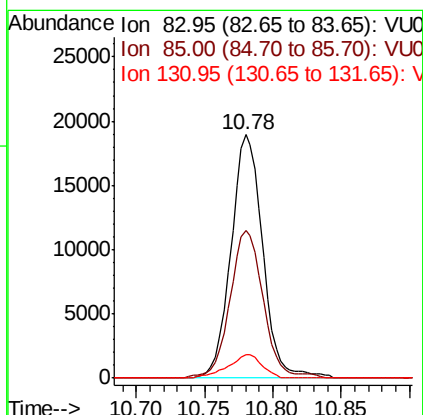
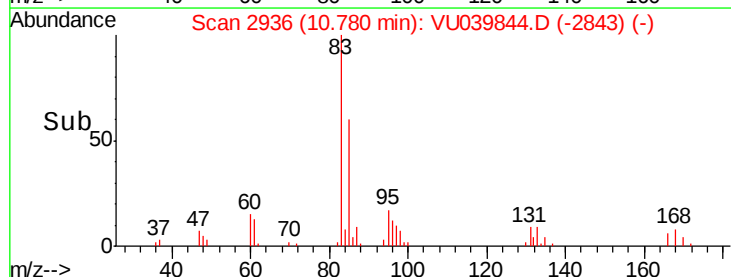
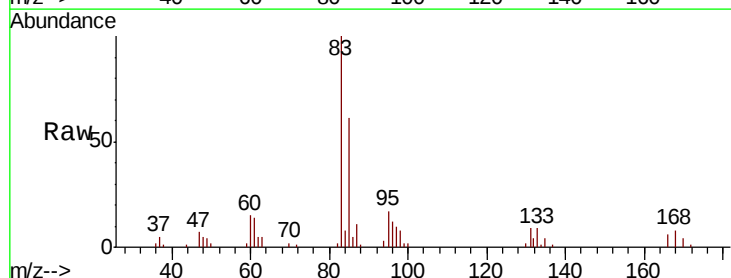
Tgt Ion: 83 Resp: 30609

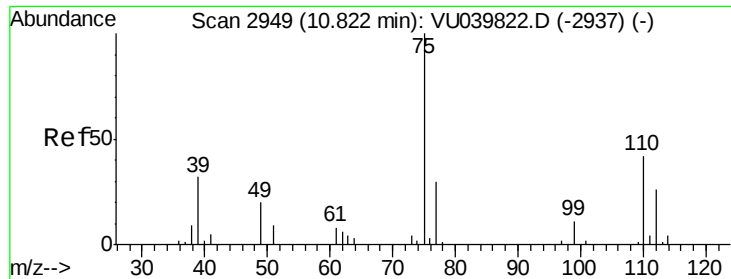
Ion Ratio Lower Upper

83 100

85 60.6 44.4 82.4

131 9.5 7.4 11.0





#59

1,2,3-Trichloropropane

Concen: 5.021 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

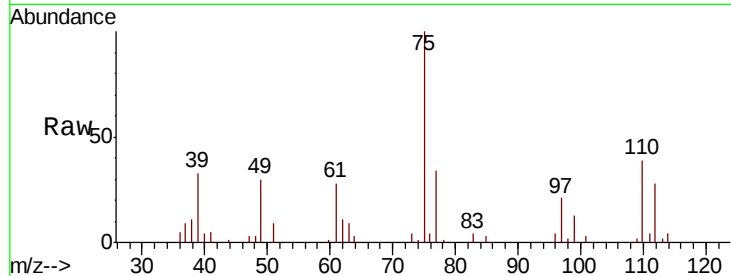
VSTD00519

Tot Ion: 75 Resp: 22035

Ion Ratio Lower Upper

75 100

77 32.1 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU039822.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU039822.D (-2937) (-)

10.82

15000

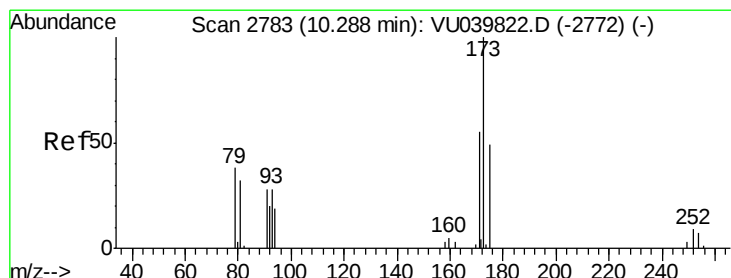
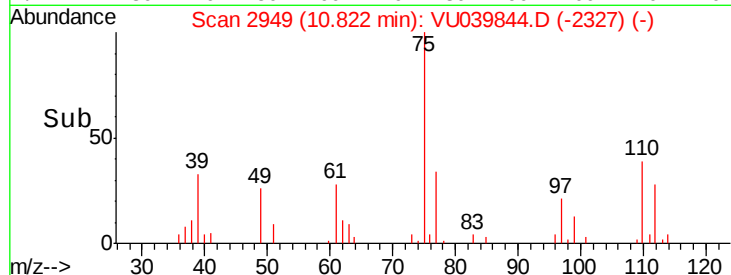
10000

5000

0

Time-->

10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 5.153 ug/L

RT: 10.29 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

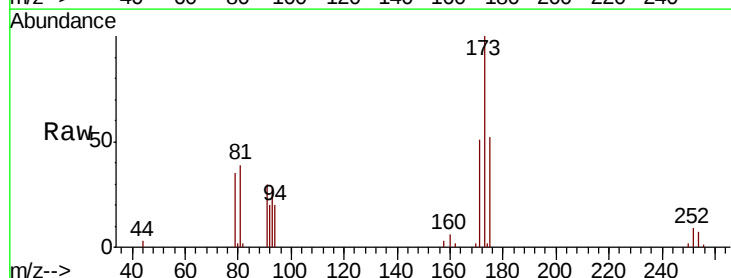
Tgt Ion: 173 Resp: 16109

Ion Ratio Lower Upper

173 100

175 49.4 33.8 50.8

254 7.2 5.5 8.3



Abundance Ion 172.90 (172.60 to 173.60): VU039822.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU039822.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU039822.D (-2772) (-)

10.29

12000

10000

8000

6000

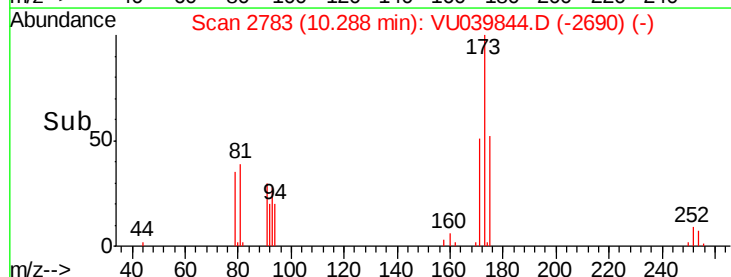
4000

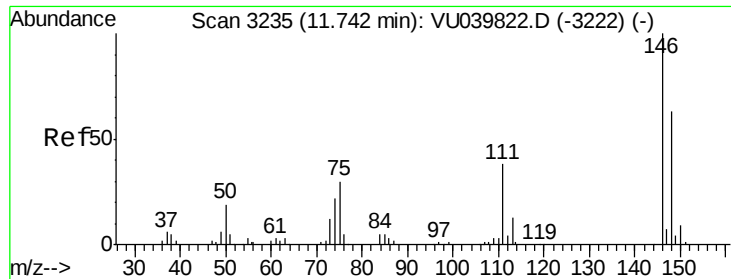
2000

0

Time-->

10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 5.230 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

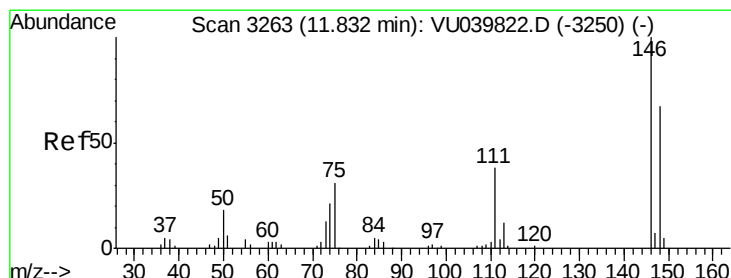
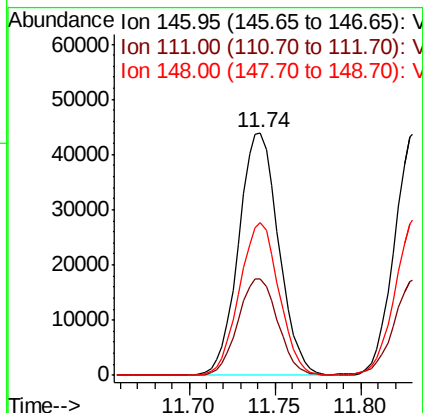
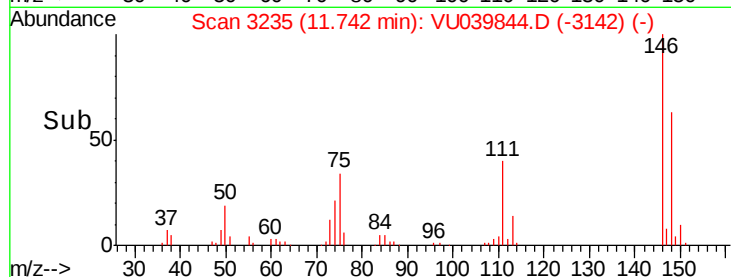
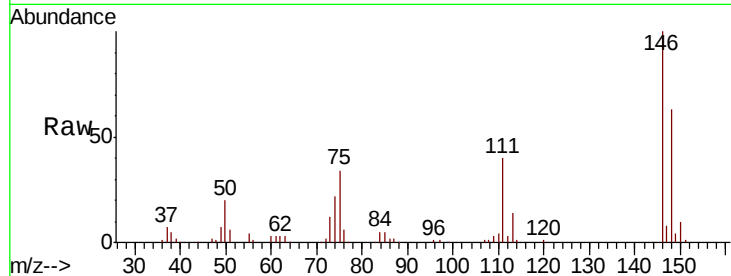
Tot Ion:146 Resp: 70819

Ion Ratio Lower Upper

146 100

111 39.9 27.7 51.5

148 63.1 45.2 84.0



#63

1,4-Dichlorobenzene

Concen: 4.942 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

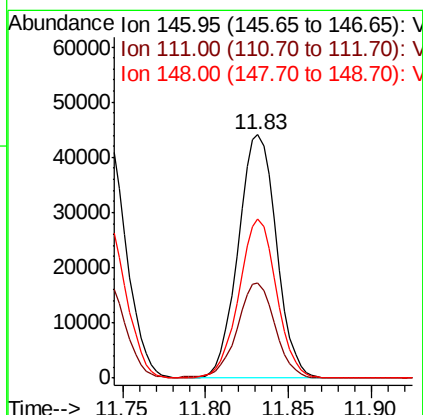
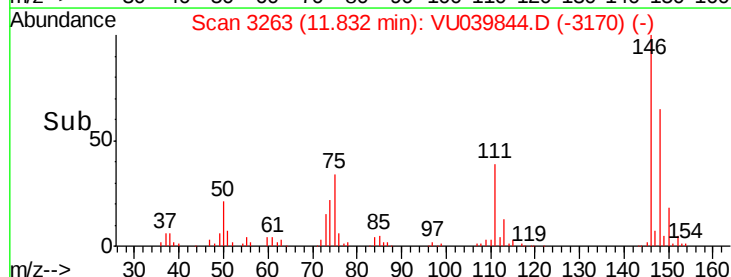
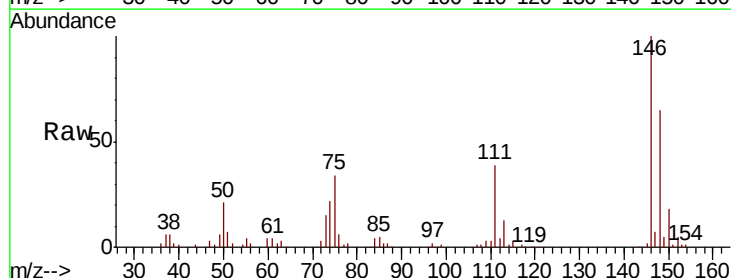
Tgt Ion:146 Resp: 70547

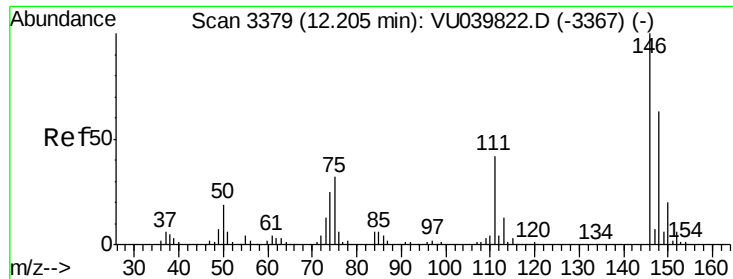
Ion Ratio Lower Upper

146 100

111 39.1 26.5 49.3

148 65.2 45.3 84.1





#65

1,2-Dichlorobenzene

Concen: 4.856 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

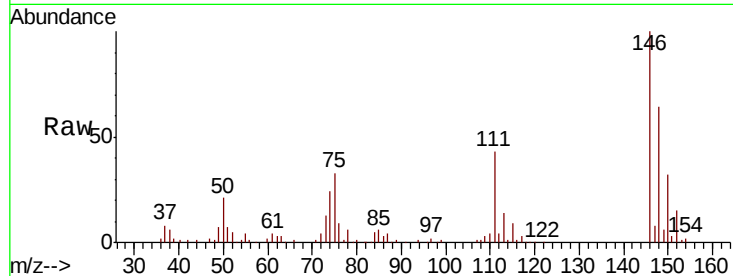
Tot Ion:146 Resp: 64784

Ion Ratio Lower Upper

146 100

111 42.8 33.1 49.7

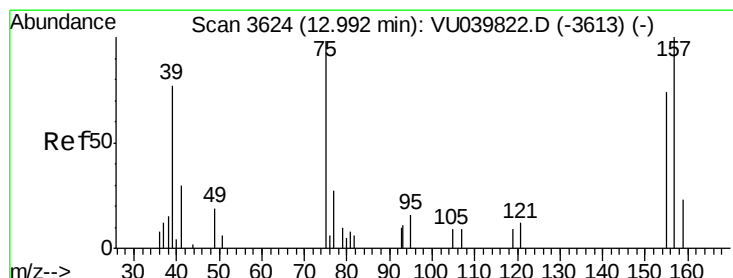
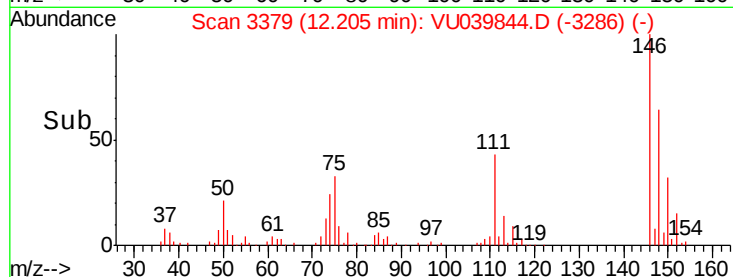
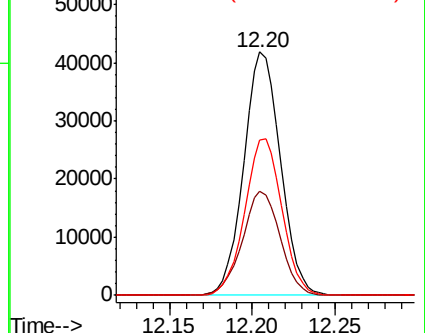
148 63.5 51.5 77.3



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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.105 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

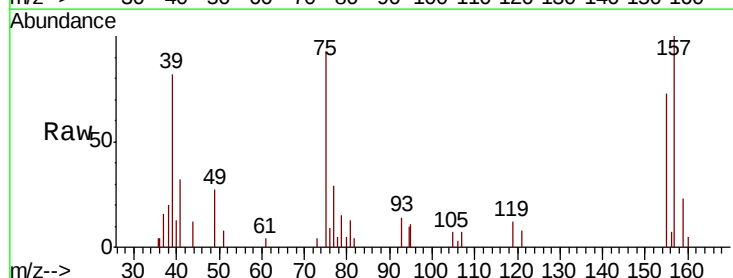
Tgt Ion: 75 Resp: 5149

Ion Ratio Lower Upper

75 100

155 78.9 64.0 96.0

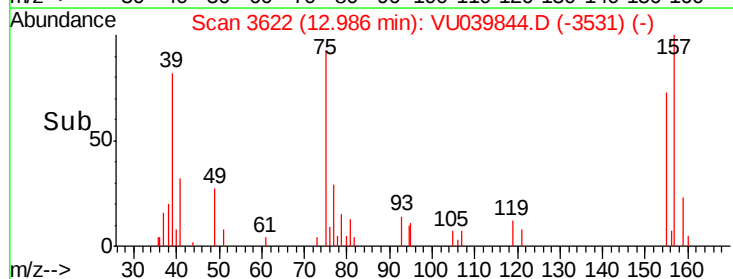
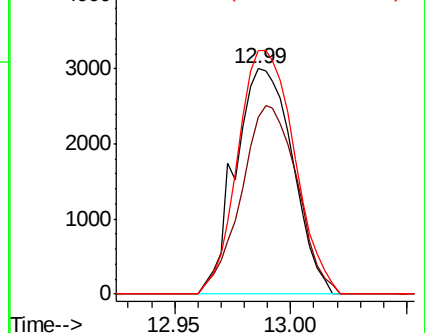
157 108.0 77.0 115.6

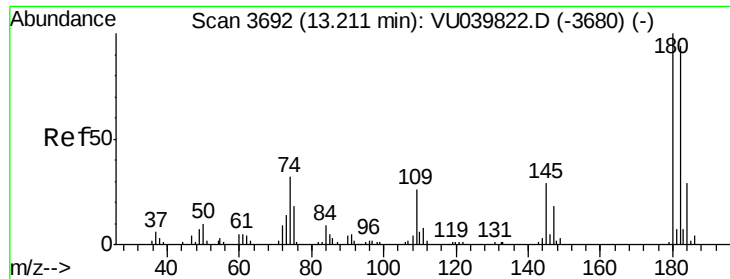


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

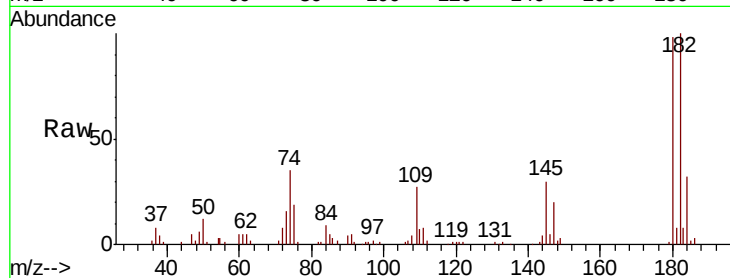




#67
 1,3,5-Trichlorobenzene
 Concen: 5.039 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.0	74.9	112.3
184	30.9	25.3	37.9
145	31.1	25.0	37.6



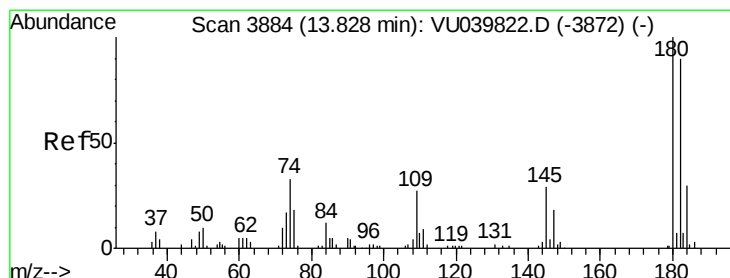
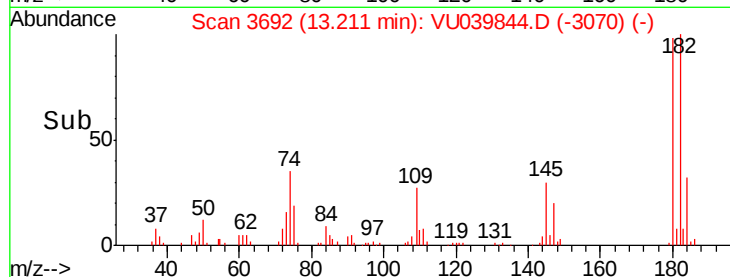
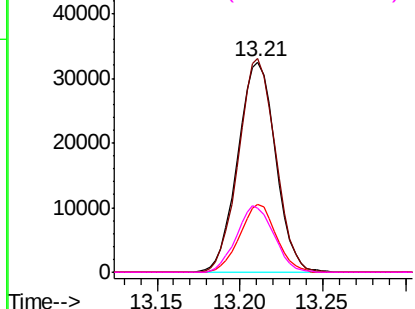
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

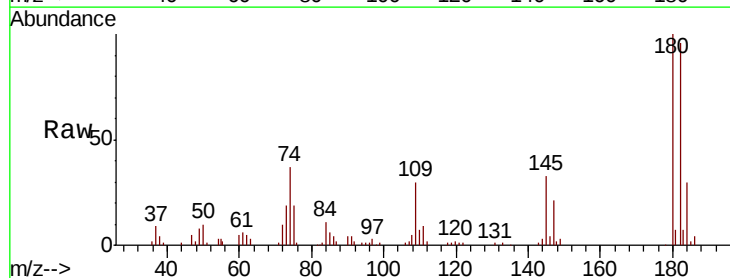
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.461 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU039844.D
 Acq: 13 Aug 2020 10:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	75.7	113.5
145	32.3	25.1	37.7

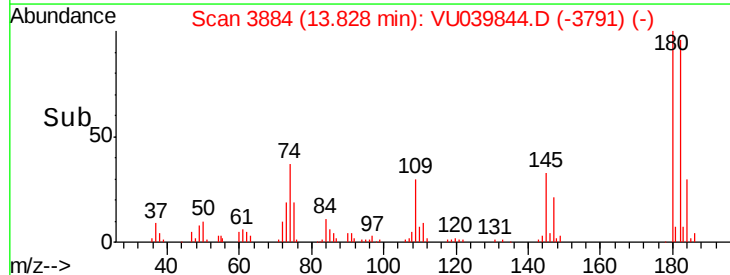
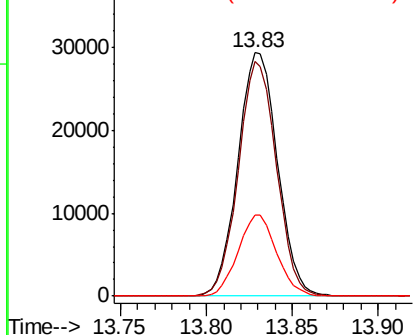


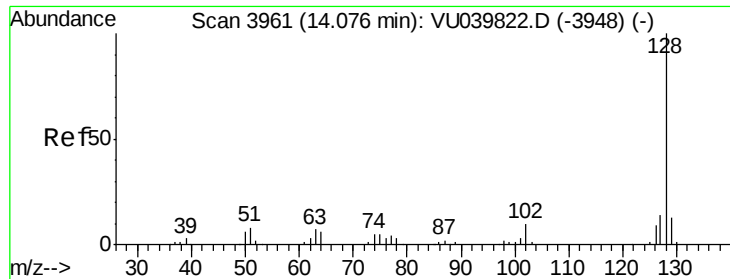
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.706 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

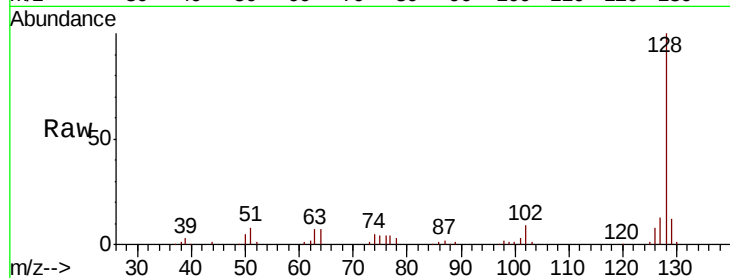
Tot Ion:128 Resp: 87745

Ion Ratio Lower Upper

128 100

129 11.5 8.9 13.3

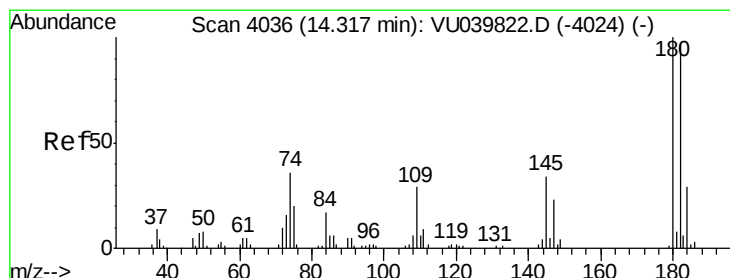
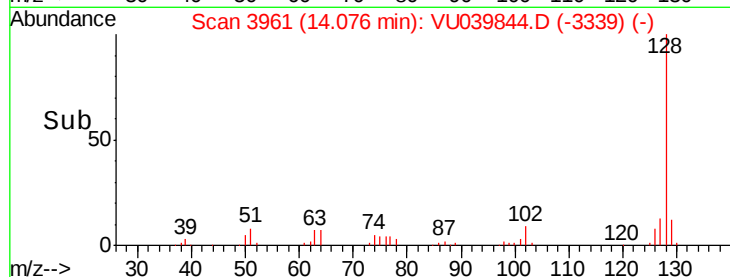
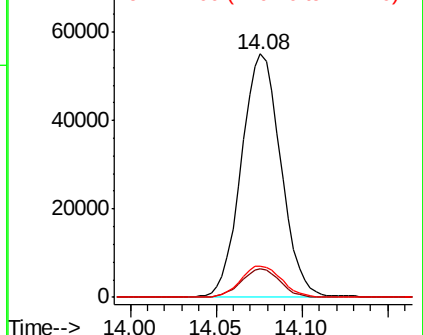
127 13.3 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.793 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU039844.D

Acq: 13 Aug 2020 10:37

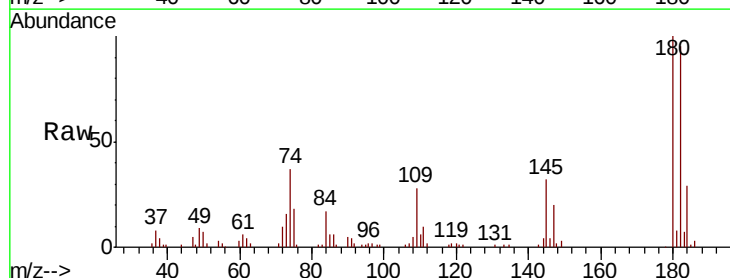
Tgt Ion:180 Resp: 44694

Ion Ratio Lower Upper

180 100

182 93.4 76.1 114.1

145 33.4 27.4 41.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

