

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040120\
 Data File : VU037522.D
 Acq On : 01 Apr 2020 13:49
 Operator : JC/MD
 Sample : VSTD0.504
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Quant Time: Apr 01 15:06:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 01 15:03:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	98656	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	92521	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	46071	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	4659	0.64	ug/L	0.00
7) Chloroethane-d5	1.93	69	3763	0.60	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	8191	0.58	ug/L	0.00
20) 2-Butanone-d5	4.68	46	12374	5.58	ug/L	0.00
24) Chloroform-d	5.10	84	7696	0.56	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	4590	0.59	ug/L	0.00
32) Benzene-d6	5.76	84	15878	0.59	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	5092	0.57	ug/L	0.00
41) Toluene-d8	7.92	98	14423	0.58	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	2260	0.57	ug/L	0.00
46) 2-Hexanone-d5	8.66	63	11032	5.95	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	4035	0.55	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	5776	0.65	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	4401	0.58	ug/L	96
3) Chloromethane	1.53	50	4410	0.58	ug/L	98
5) Vinyl chloride	1.62	62	4251	0.52	ug/L	97
6) Bromomethane	1.88	94	2054	0.50	ug/L	84
8) Chloroethane	1.95	64	2929	0.64	ug/L	92
9) Trichlorofluoromethane	2.16	101	6832	0.60	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4062	0.61	ug/L	97
12) 1,1-Dichloroethene	2.60	96	3693	0.56	ug/L	88
13) Acetone	2.68	43	8344	6.67	ug/L	93
14) Carbon disulfide	2.82	76	12025	0.55	ug/L	96
15) Methyl Acetate	2.99	43	2678	0.77	ug/L #	78
16) Methylene chloride	3.08	84	4449	0.60	ug/L	92
17) Methyl tert-butyl Ether	3.41	73	10374	0.57	ug/L	93
18) trans-1,2-Dichloroethene	3.39	96	4058	0.58	ug/L	97
19) 1,1-Dichloroethane	3.91	63	7649	0.58	ug/L	97
21) 2-Butanone	4.76	43	13722	6.20	ug/L	98
22) cis-1,2-Dichloroethene	4.70	96	4173	0.54	ug/L	96
23) Bromochloromethane	5.02	128	1089	0.34	ug/L	85
25) Chloroform	5.12	83	7842	0.59	ug/L	100
27) 1,2-Dichloroethane	5.83	62	4962	0.55	ug/L #	95
29) 1,1,1-Trichloroethane	5.36	97	6856	0.58	ug/L	98
30) Cyclohexane	5.42	56	7636	0.60	ug/L	96
31) Carbon tetrachloride	5.56	117	5144	0.53	ug/L	92
33) Benzene	5.81	78	16656	0.58	ug/L	100
34) Trichloroethene	6.58	95	4485	0.59	ug/L	93
35) Methylcyclohexane	6.79	83	7375	0.58	ug/L	97
37) 1,2-Dichloropropane	6.82	63	4537	0.59	ug/L #	97
38) Bromodichloromethane	7.14	83	5616	0.56	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	6783	0.57	ug/L	92
40) 4-Methyl-2-pentanone	7.82	43	31151	5.52	ug/L	95

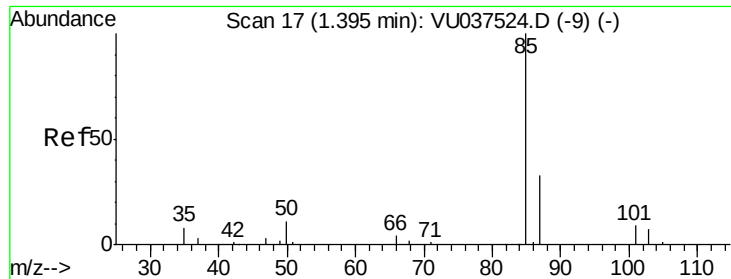
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040120\
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Quant Time: Apr 01 15:06:31 2020
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 01 15:03:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	17142	0.56	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	5822	0.55	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	3129	0.57	ug/L	94
47) Tetrachloroethene	8.57	164	2700	0.53	ug/L	90
48) 2-Hexanone	8.71	43	22592	5.55	ug/L	98
49) Dibromochloromethane	8.84	129	3479	0.53	ug/L	89
50) 1,2-Dibromoethane	8.95	107	2867	0.53	ug/L #	80
51) Chlorobenzene	9.47	112	10607	0.56	ug/L	98
52) Ethylbenzene	9.59	91	19711	0.56	ug/L	99
53) m,p-Xylene	9.71	106	7644	0.58	ug/L	89
54) o-Xylene	10.12	106	7008	0.56	ug/L	89
55) Styrene	10.13	104	12014	0.55	ug/L	92
56) Isopropylbenzene	10.50	105	19840	0.59	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.80	83	4205	0.57	ug/L #	97
59) 1,2,3-Trichloropropane	11.83	75	9496	1.81	ug/L	93
61) Bromoform	10.31	173	2118	0.55	ug/L #	92
62) 1,3-Dichlorobenzene	11.76	146	8490	0.55	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	8716	0.56	ug/L	94
65) 1,2-Dichlorobenzene	12.23	146	8681	0.61	ug/L	94
66) 1,2-Dibromo-3-chloropropan	13.02	75	731	0.49	ug/L #	83
67) 1,3,5-Trichlorobenzene	13.25	180	6182	0.58	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	5117	0.49	ug/L	93
69) Naphthalene	14.12	128	12654	0.54	ug/L	97
70) 1,2,3-Trichlorobenzene	14.37	180	4945	0.55	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 0.58 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

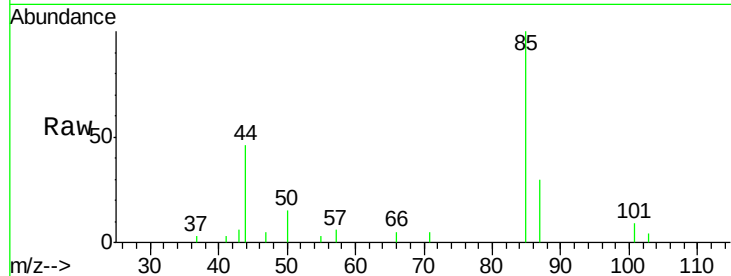
VSTD0.504

Tgt Ion: 85 Resp: 4401

Ion Ratio Lower Upper

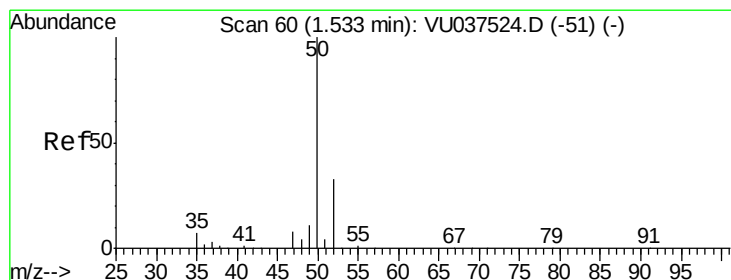
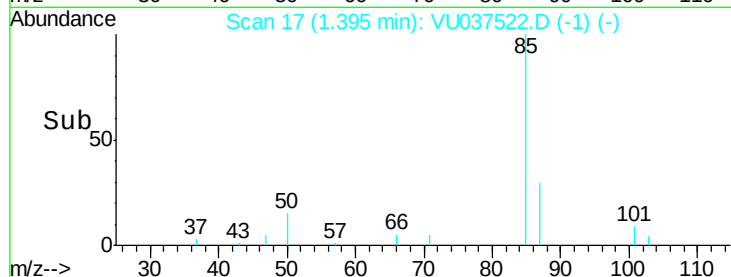
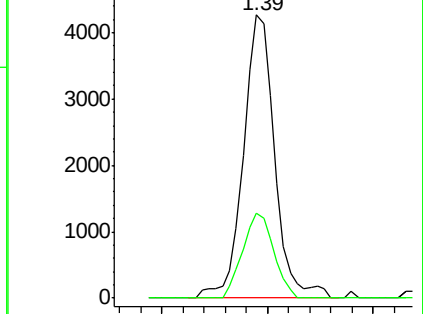
85 100

87 29.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU037522.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037522.D (-9) (-)



#3

Chloromethane

Concen: 0.58 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037522.D

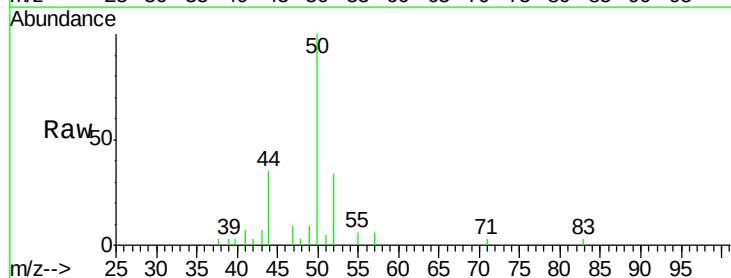
Acq: 01 Apr 2020 13:49

Tgt Ion: 50 Resp: 4410

Ion Ratio Lower Upper

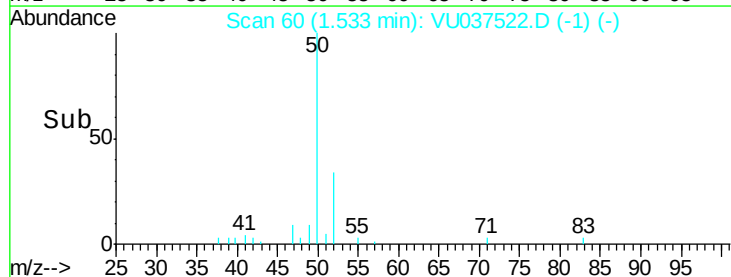
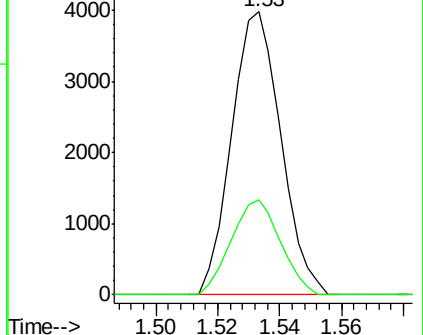
50 100

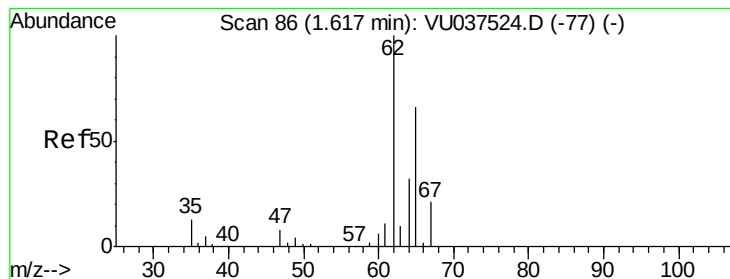
52 33.8 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU037522.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU037522.D (-51) (-)





#5

Vinyl chloride

Concen: 0.52 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

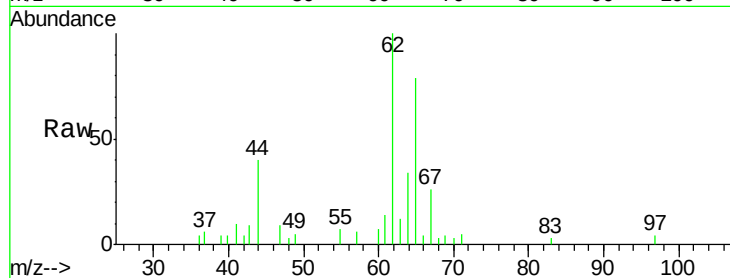
VSTD0.504

Tgt Ion: 62 Resp: 4251

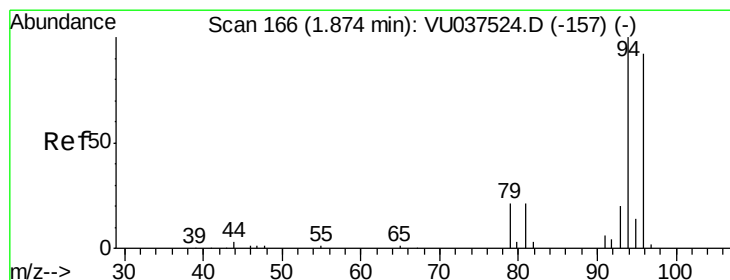
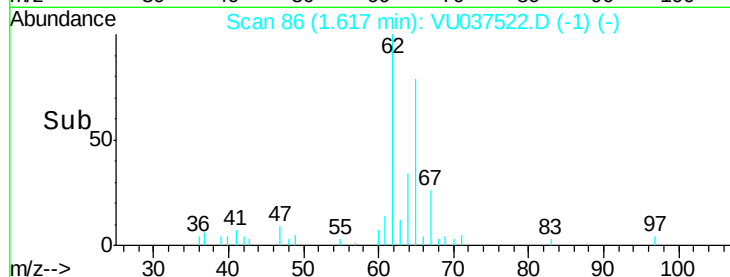
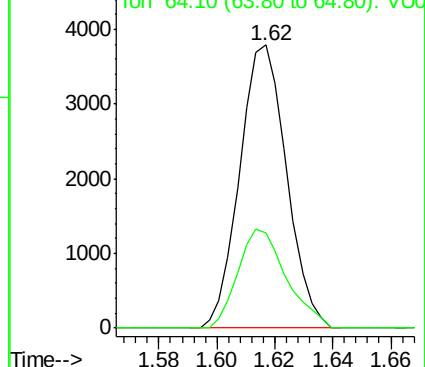
Ion Ratio Lower Upper

62 100

64 33.6 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU037522.D (-77) (-)



#6

Bromomethane

Concen: 0.50 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU037522.D

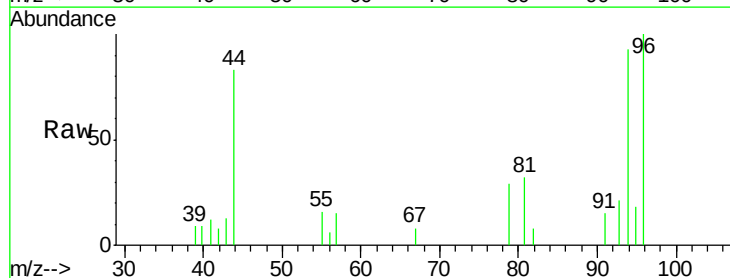
Acq: 01 Apr 2020 13:49

Tgt Ion: 94 Resp: 2054

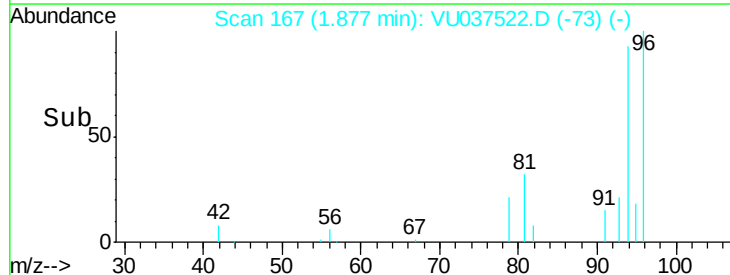
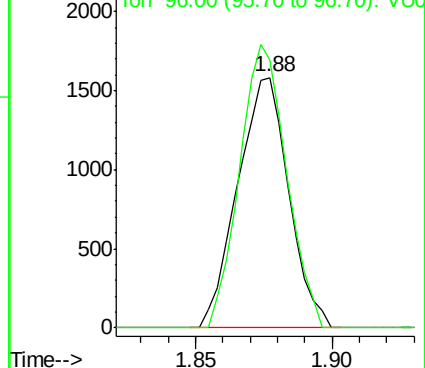
Ion Ratio Lower Upper

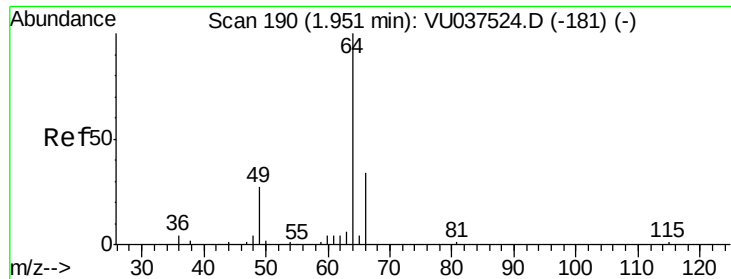
94 100

96 107.1 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU037522.D (-157) (-)





#8

Chloroethane

Concen: 0.64 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

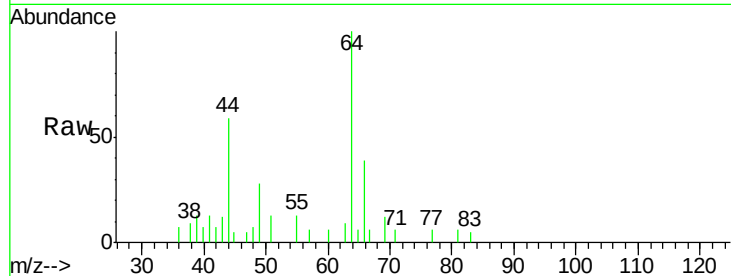
VSTD0.504

Tgt Ion: 64 Resp: 2929

Ion Ratio Lower Upper

64 100

66 38.8 24.1 44.7



Abundance Ion 64.10 (63.80 to 64.80): VU037522.D (-181) (-)

Ion 66.05 (65.75 to 66.75): VU037522.D (-181) (-)

2500

2000

1500

1000

500

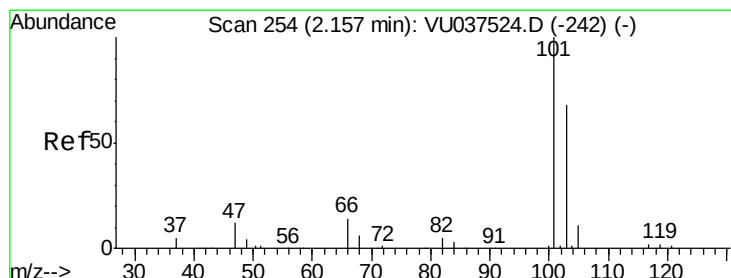
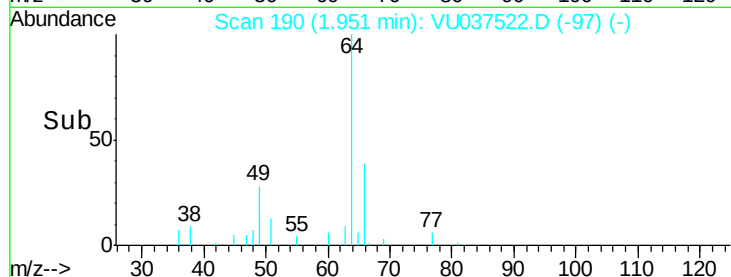
0

1.90

1.95

2.00

Time-->



#9

Trichlorofluoromethane

Concen: 0.60 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037522.D

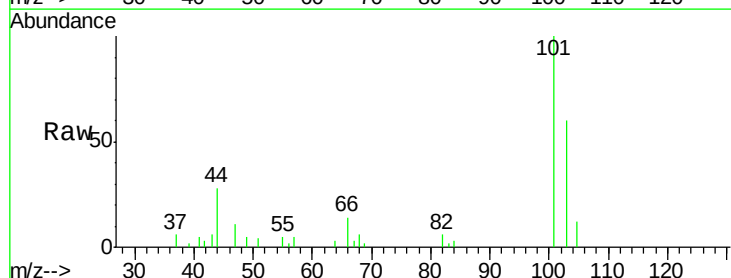
Acq: 01 Apr 2020 13:49

Tgt Ion: 101 Resp: 6832

Ion Ratio Lower Upper

101 100

103 63.3 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VU037522.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU037522.D (-242) (-)

5000

4000

3000

2000

1000

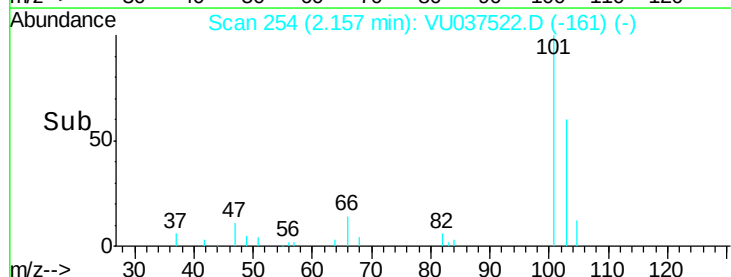
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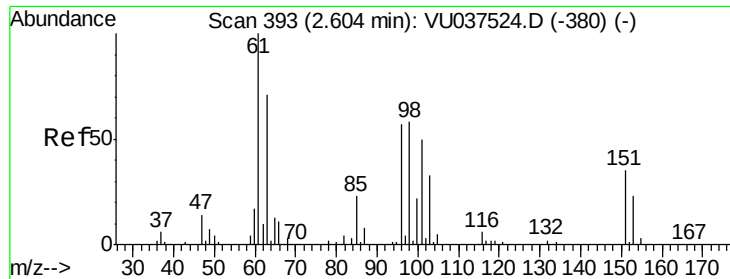
2.10

2.15

2.20

Time-->





#10

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

Concen: 0.61 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

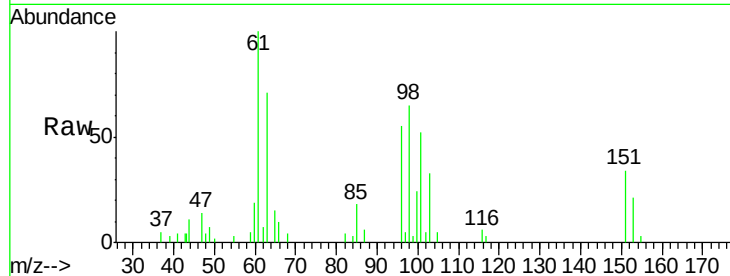
Tgt Ion:101 Resp: 4062

Ion Ratio Lower Upper

101 100

85 40.5 35.8 53.8

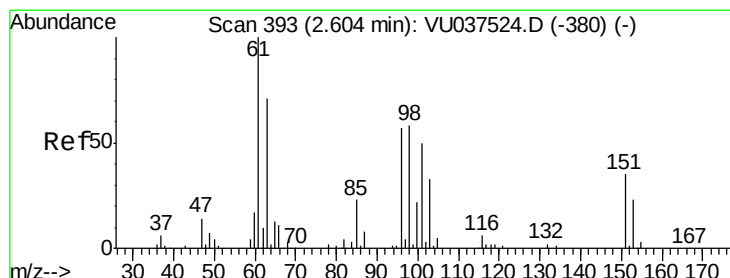
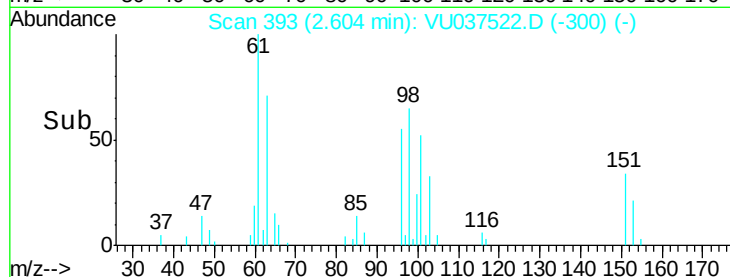
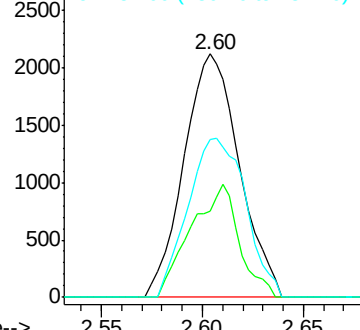
151 68.2 54.7 82.1



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: 0.56 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

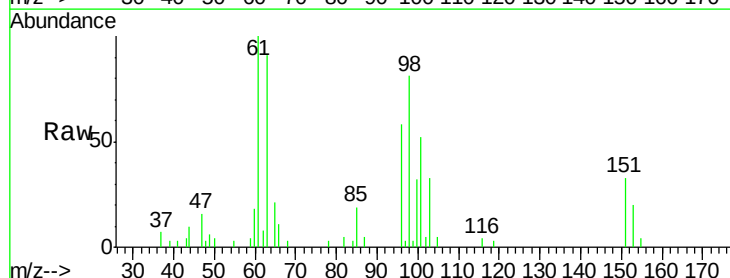
Tgt Ion: 96 Resp: 3693

Ion Ratio Lower Upper

96 100

61 171.9 123.4 229.2

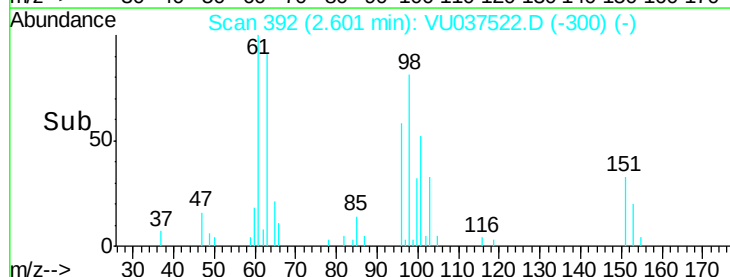
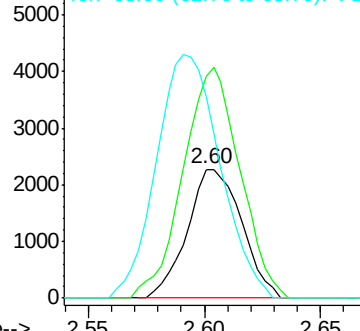
63 156.6 90.4 168.0

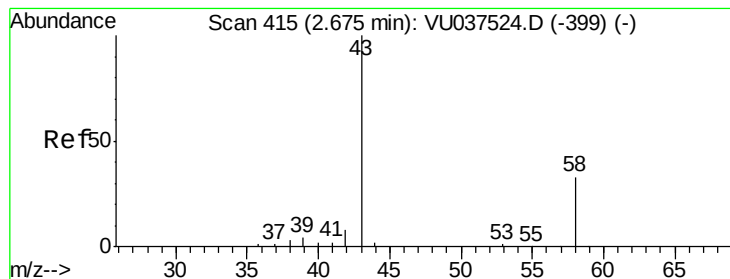


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.67 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

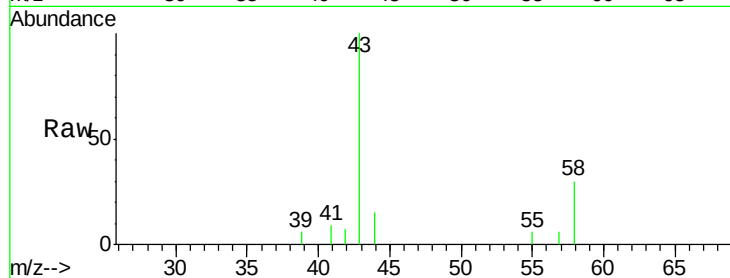
VSTD0.504

Tgt Ion: 43 Resp: 8344

Ion Ratio Lower Upper

43 100

58 30.3 0.0 68.2



Abundance Ion 43.05 (42.75 to 43.75): VU037522.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU037522.D (-322) (-)

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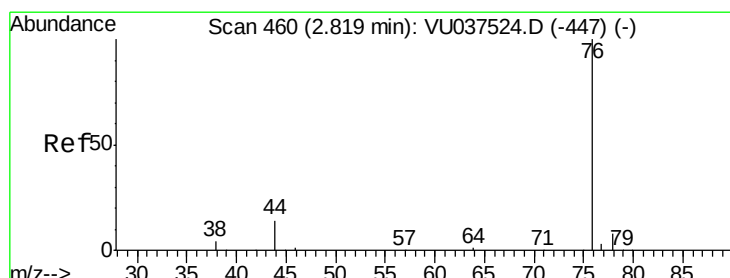
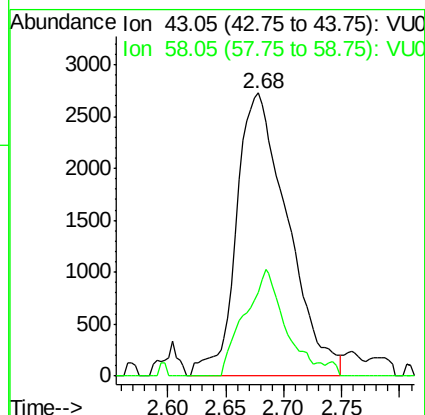
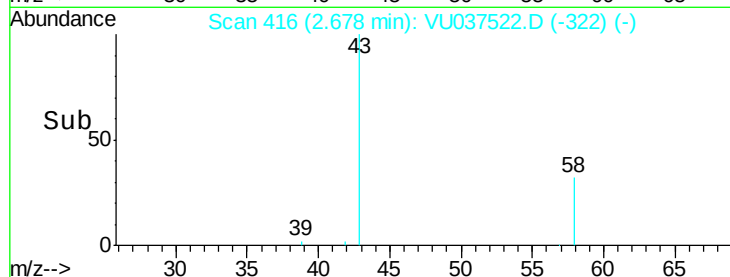
2.68

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2.68



#14

Carbon disulfide

Concen: 0.55 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037522.D

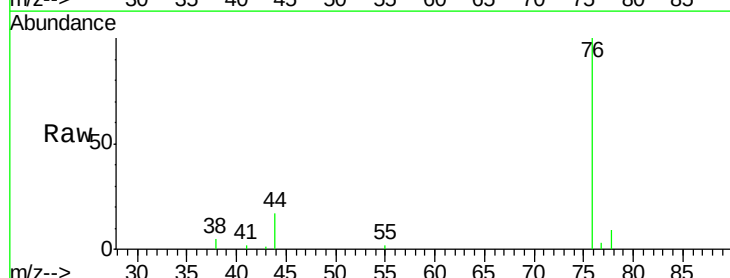
Acq: 01 Apr 2020 13:49

Tgt Ion: 76 Resp: 12025

Ion Ratio Lower Upper

76 100

78 9.3 6.3 9.5



Abundance Ion 76.05 (75.75 to 76.75): VU037522.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037522.D (-367) (-)

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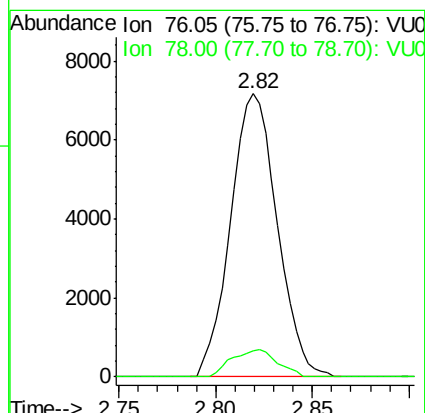
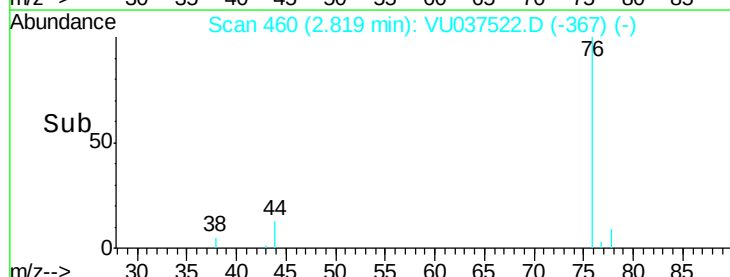
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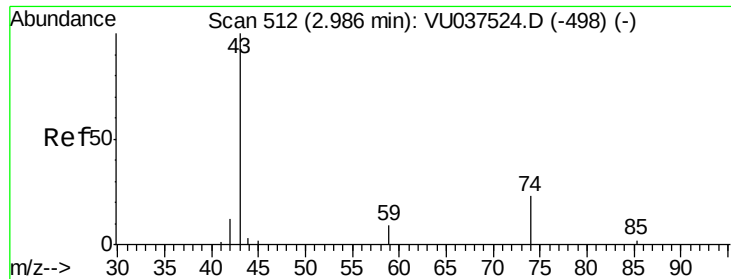
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2.82

2.82

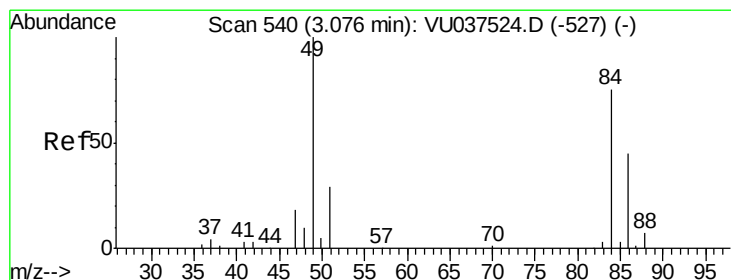
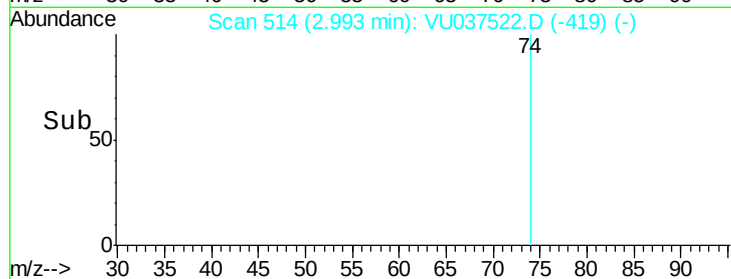
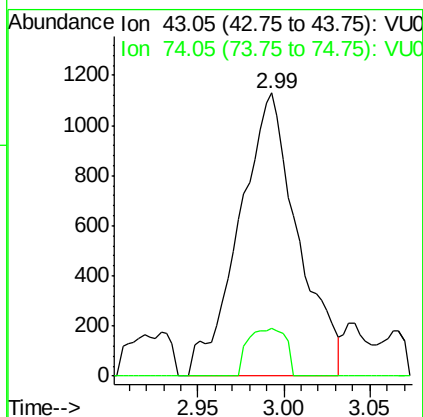
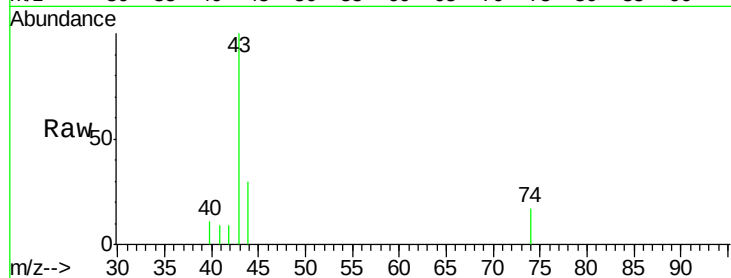




#15
Methyl Acetate
Concen: 0.77 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.01 min
Lab File: VU037522.D
Acq: 01 Apr 2020 13:49

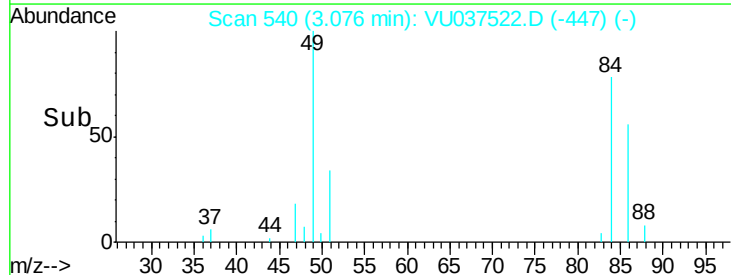
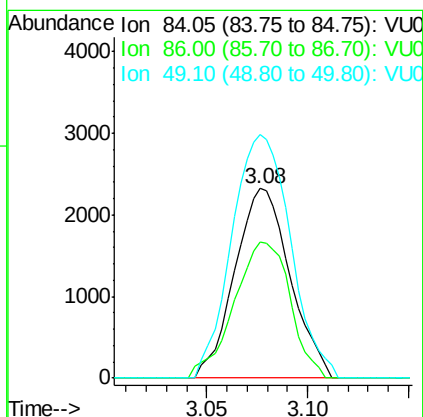
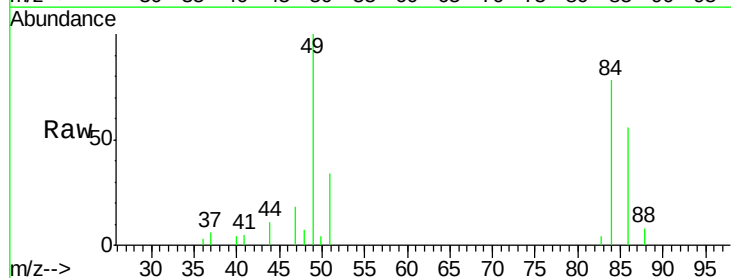
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

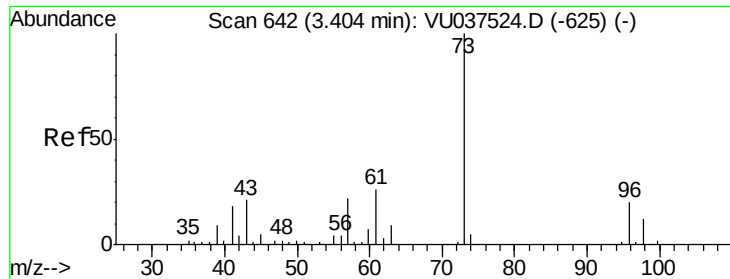
Tgt Ion: 43 Resp: 2678
Ion Ratio Lower Upper
43 100
74 10.8 16.8 25.2#



#16
Methylene chloride
Concen: 0.60 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037522.D
Acq: 01 Apr 2020 13:49

Tgt Ion: 84 Resp: 4449
Ion Ratio Lower Upper
84 100
86 71.7 41.6 77.3
49 133.0 97.0 180.2





#17

Methyl tert-butyl Ether

Concen: 0.57 ug/L

RT: 3.41 min Scan# 643

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

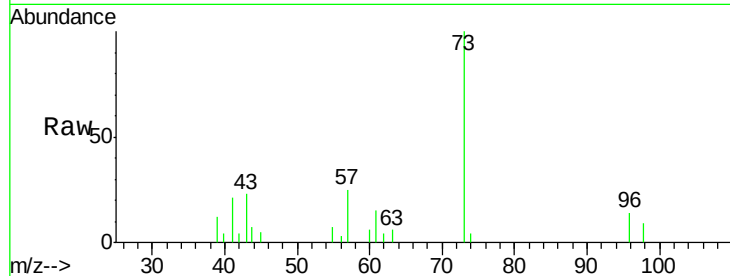
Tgt Ion: 73 Resp: 10374

Ion Ratio Lower Upper

73 100

43 25.0 18.0 27.0

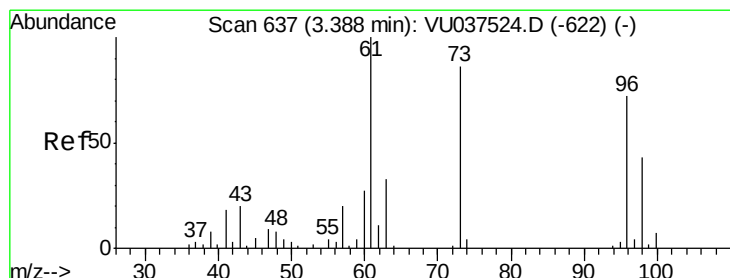
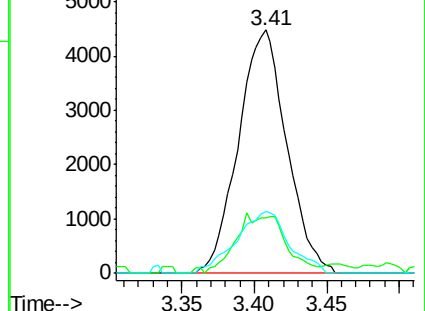
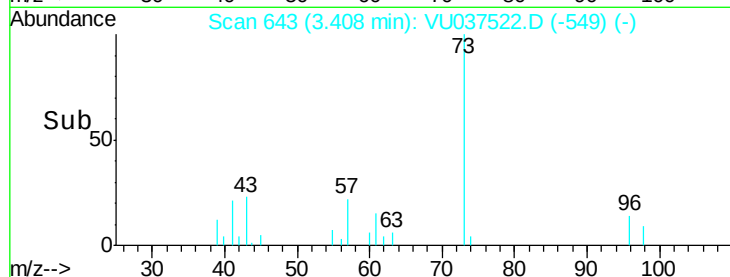
57 27.8 19.0 28.6



Abundance Ion 73.10 (72.80 to 73.80): VU037522.D (-549) (-)

Ion 43.05 (42.75 to 43.75): VU037522.D (-549) (-)

Ion 57.10 (56.80 to 57.80): VU037522.D (-549) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.58 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

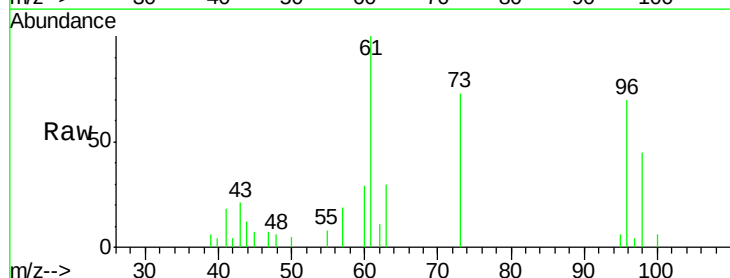
Tgt Ion: 96 Resp: 4058

Ion Ratio Lower Upper

96 100

61 141.9 97.4 181.0

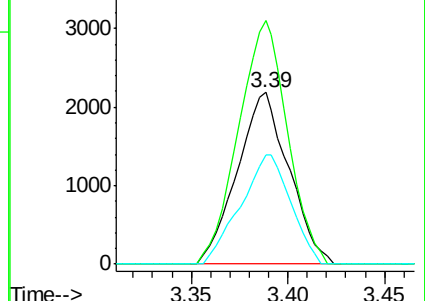
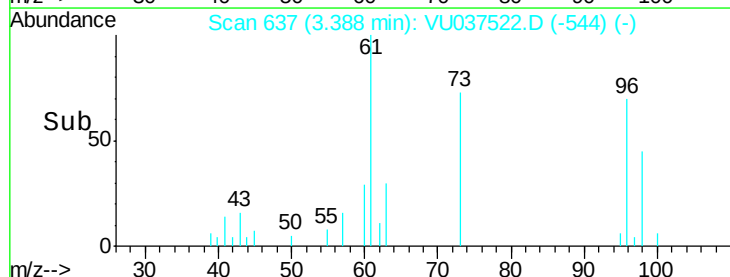
98 63.8 42.4 78.6

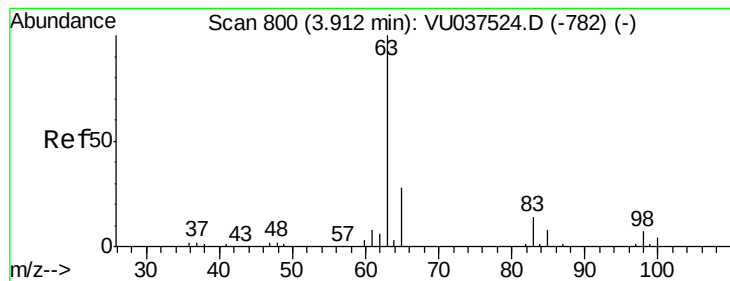


Abundance Ion 96.00 (95.70 to 96.70): VU037522.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU037522.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU037522.D (-544) (-)





#19

1,1-Dichloroethane

Concen: 0.58 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

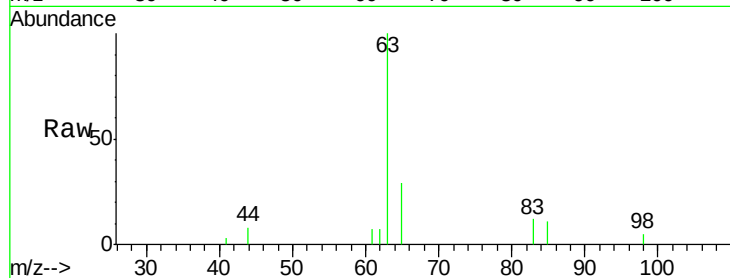
Tgt Ion: 63 Resp: 7649

Ion Ratio Lower Upper

63 100

65 29.3 19.9 36.9

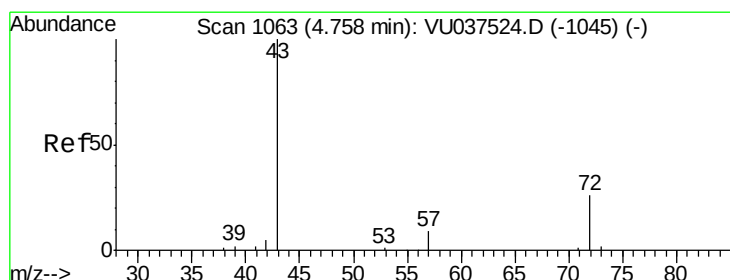
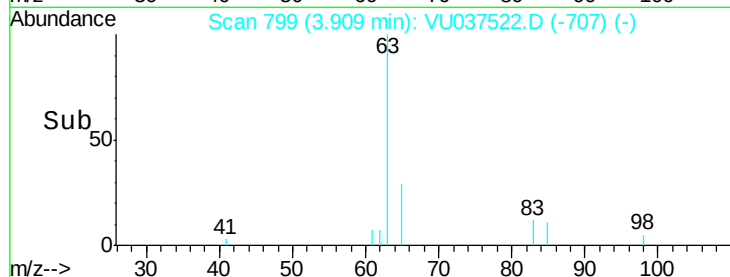
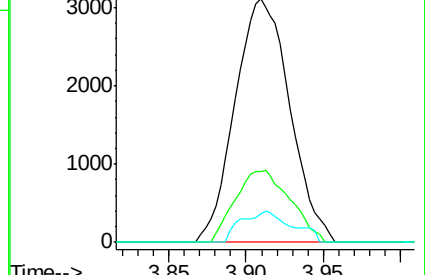
83 11.8 10.1 18.7



Abundance Ion 63.10 (62.80 to 63.80): VU037522.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU037522.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU037522.D (-782) (-)



#21

2-Butanone

Concen: 6.20 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VU037522.D

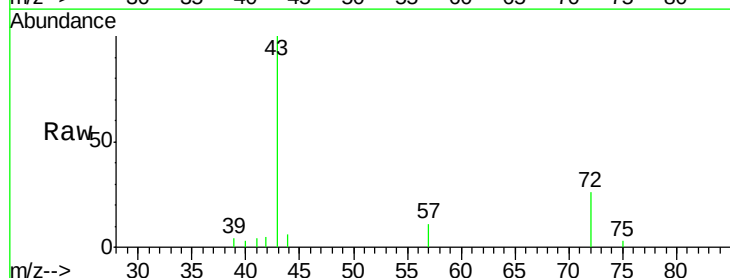
Acq: 01 Apr 2020 13:49

Tgt Ion: 43 Resp: 13722

Ion Ratio Lower Upper

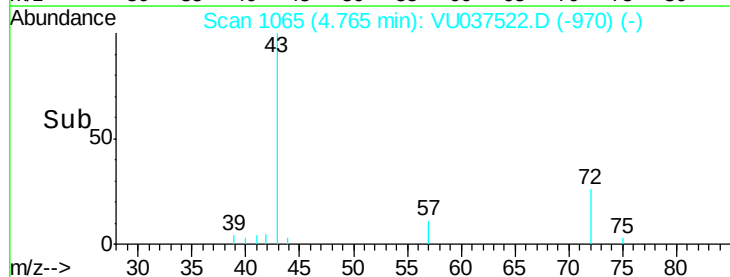
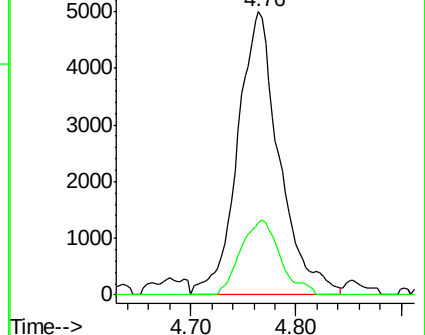
43 100

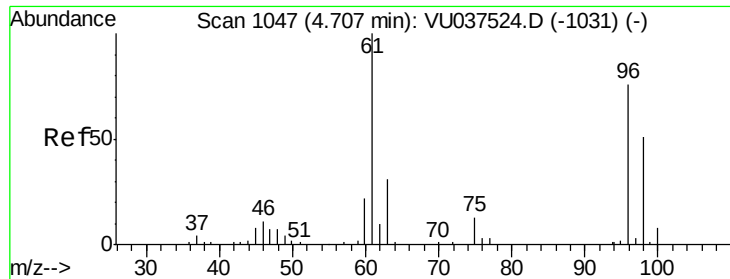
72 25.1 13.1 39.1



Abundance Ion 43.05 (42.75 to 43.75): VU037522.D (-970) (-)

Ion 72.10 (71.80 to 72.80): VU037522.D (-970) (-)

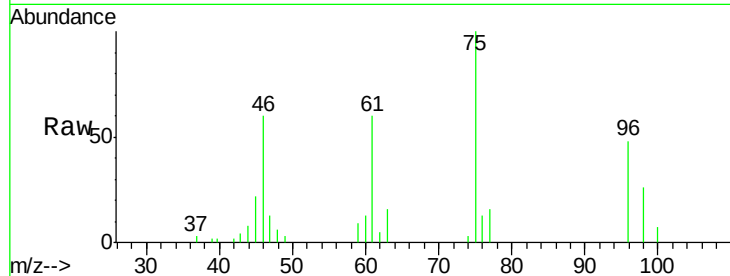




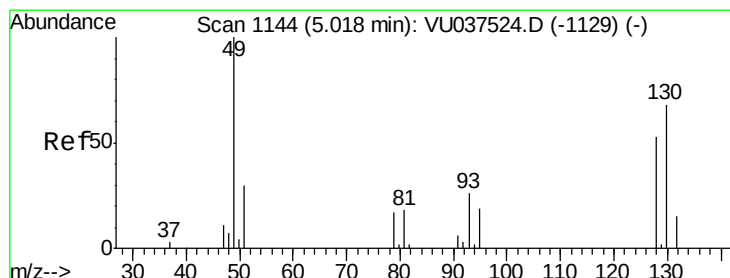
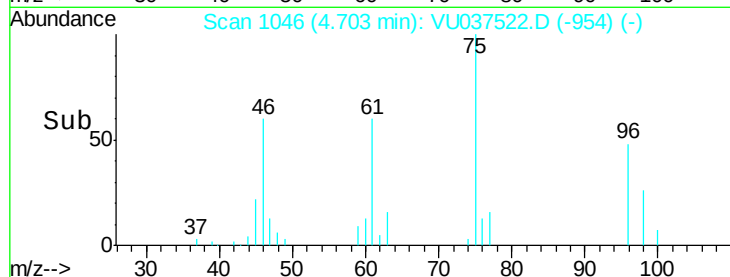
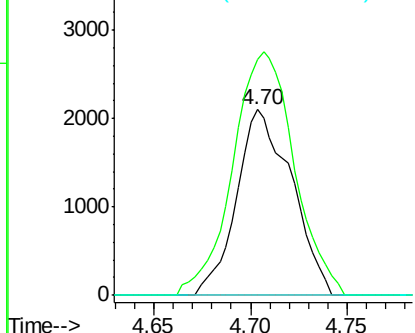
#22
 cis-1,2-Dichloroethene
 Concen: 0.54 ug/L
 RT: 4.70 min Scan# 1046
 Delta R.T. -0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tgt Ion: 96 Resp: 4173
 Ion Ratio Lower Upper
 96 100
 61 126.6 92.0 170.9
 68 0.0 0.0 0.0

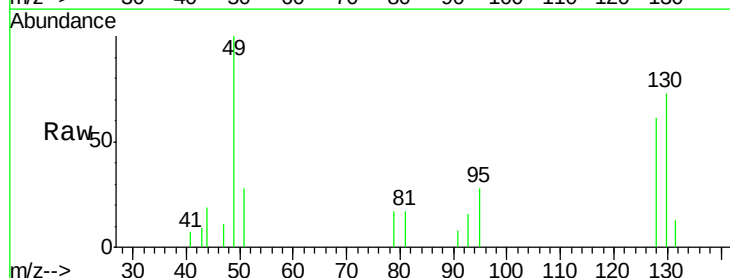


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

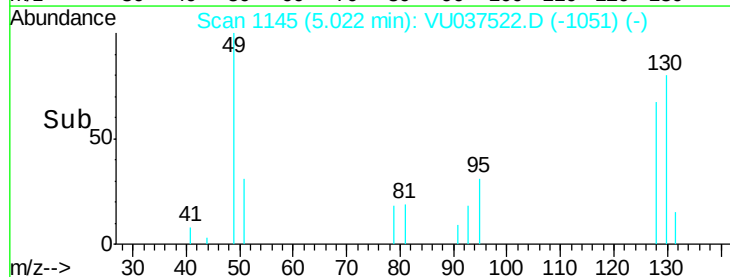
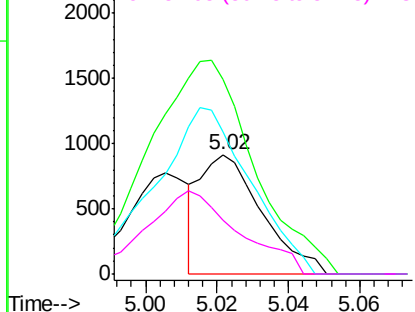


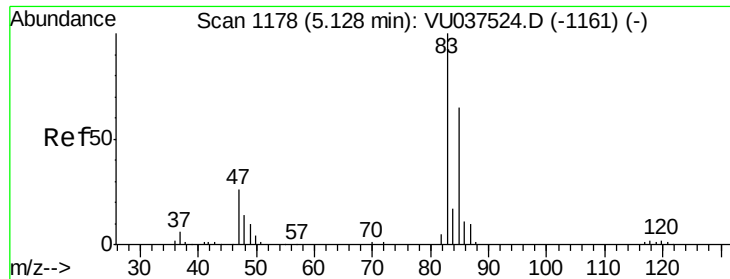
#23
 Bromochloromethane
 Concen: 0.34 ug/L
 RT: 5.02 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion: 128 Resp: 1089
 Ion Ratio Lower Upper
 128 100
 49 163.0 133.7 248.3
 130 118.5 90.6 168.2
 51 45.3 45.2 67.8



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

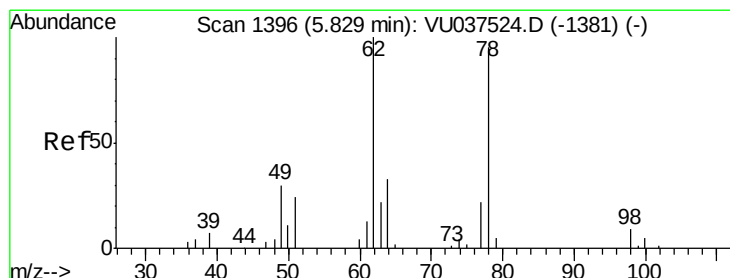
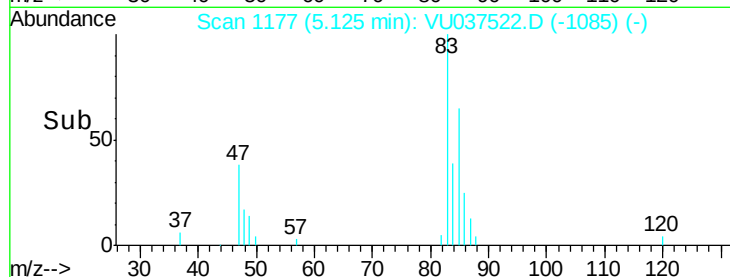
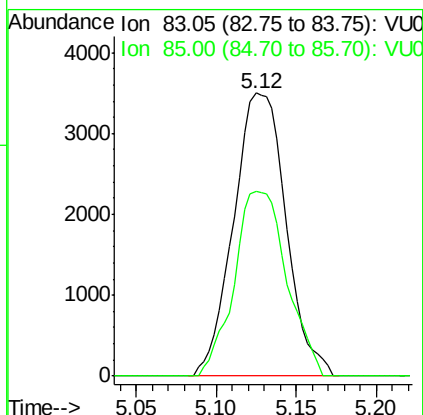
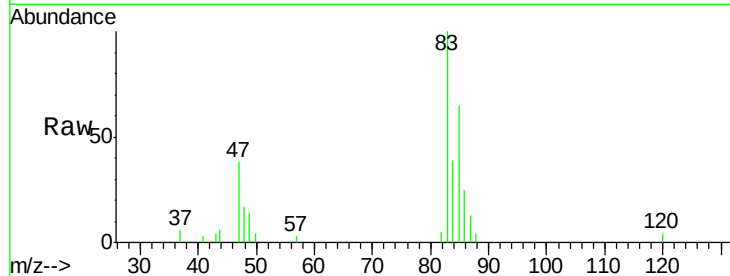




#25
 Chloroform
 Concen: 0.59 ug/L
 RT: 5.12 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

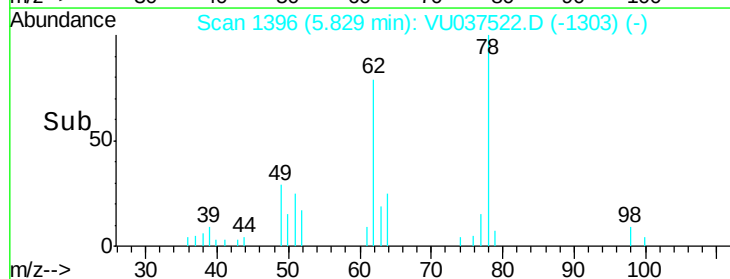
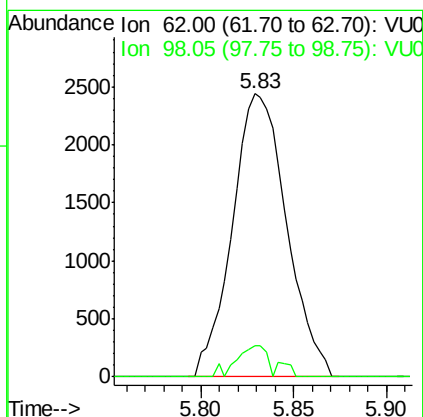
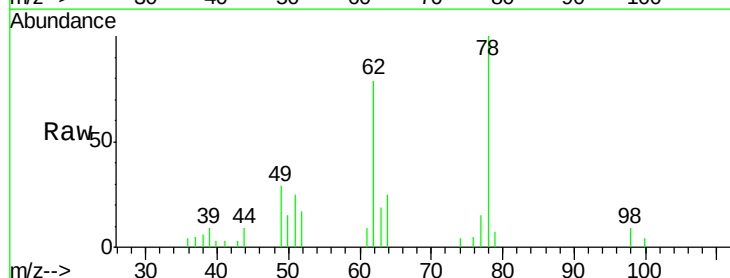
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

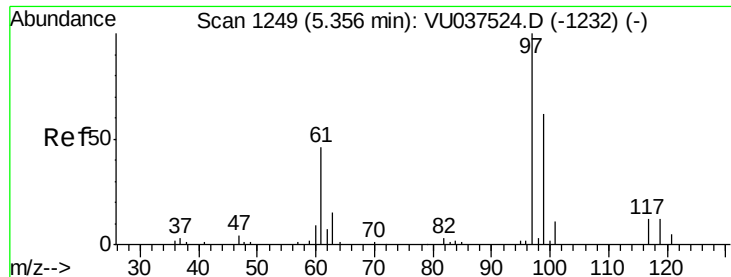
Tgt Ion: 83 Resp: 7842
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.8 85.2



#27
 1,2-Dichloroethane
 Concen: 0.55 ug/L
 RT: 5.83 min Scan# 1396
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion: 62 Resp: 4962
 Ion Ratio Lower Upper
 62 100
 98 10.9 7.3 10.9#

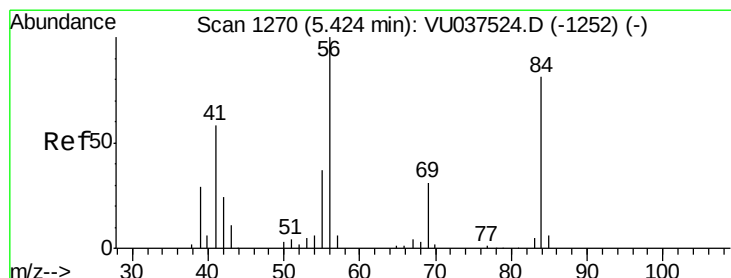
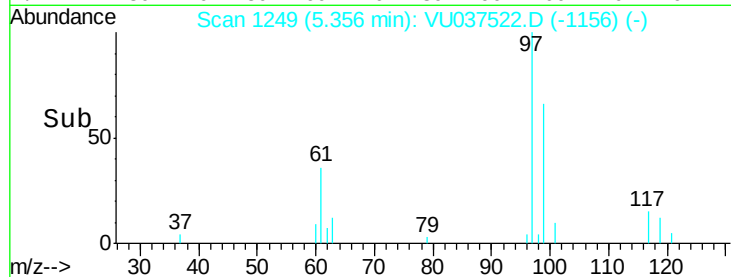
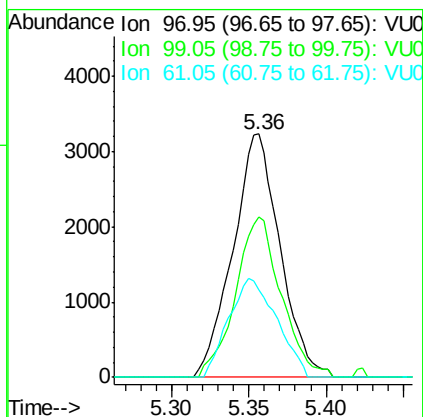
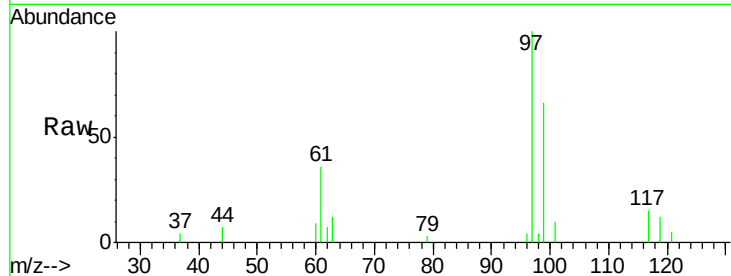




#29
 1,1,1-Trichloroethane
 Concen: 0.58 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

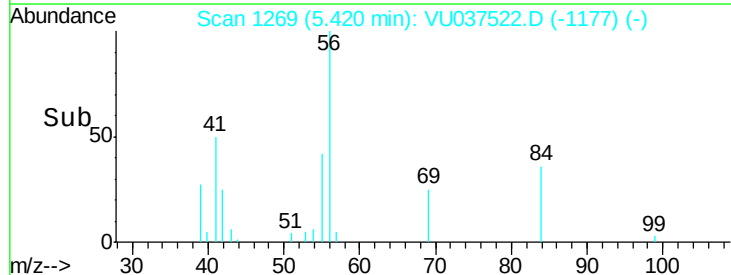
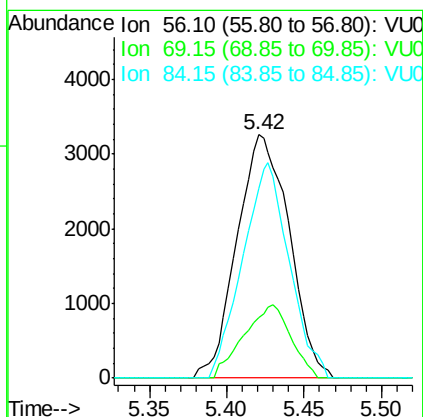
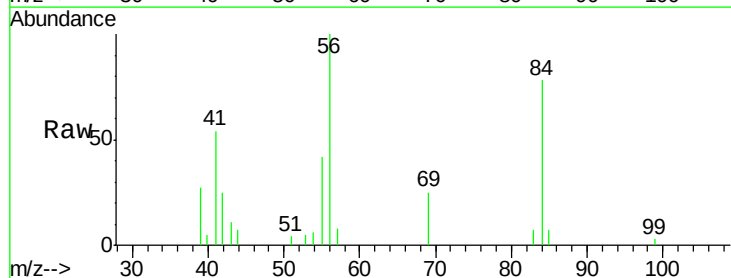
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

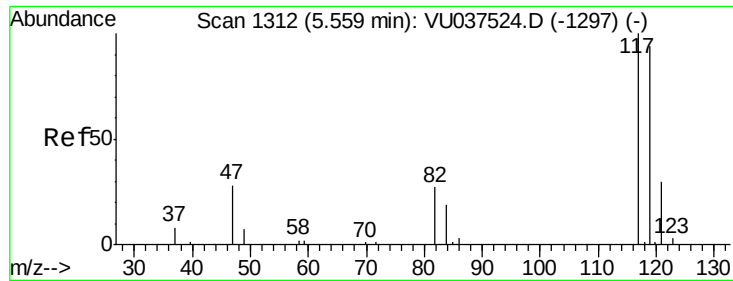
Tgt Ion: 97 Resp: 6856
 Ion Ratio Lower Upper
 97 100
 99 63.8 50.6 76.0
 61 41.4 35.2 52.8



#30
 Cyclohexane
 Concen: 0.60 ug/L
 RT: 5.42 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion: 56 Resp: 7636
 Ion Ratio Lower Upper
 56 100
 69 27.2 23.9 35.9
 84 78.8 65.6 98.4





#31

Carbon tetrachloride

Concen: 0.53 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

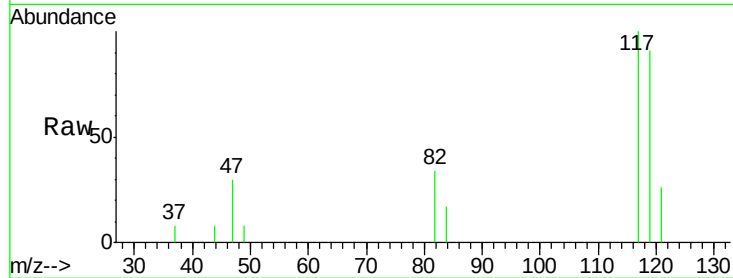
VSTD0.504

Tgt Ion:117 Resp: 5144

Ion Ratio Lower Upper

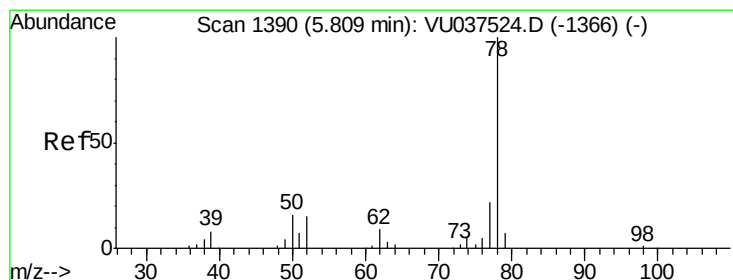
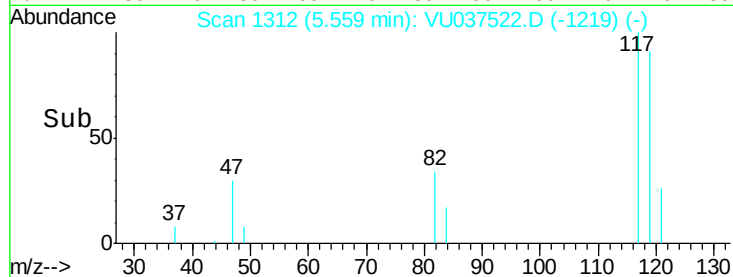
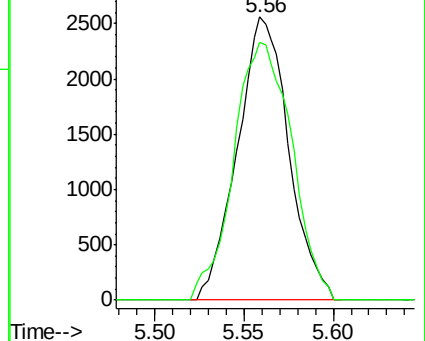
117 100

119 103.0 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.58 ug/L

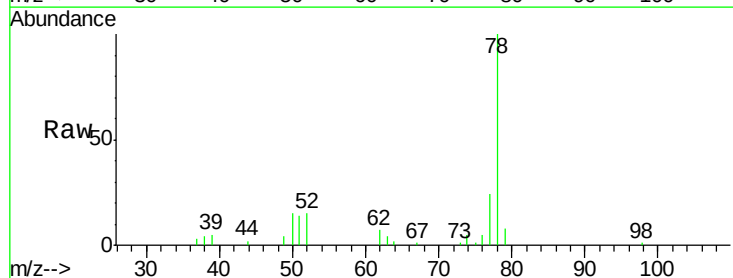
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Tgt Ion: 78 Resp: 16656



Abundance Ion 78.10 (77.80 to 78.80): VU0

10000

8000

6000

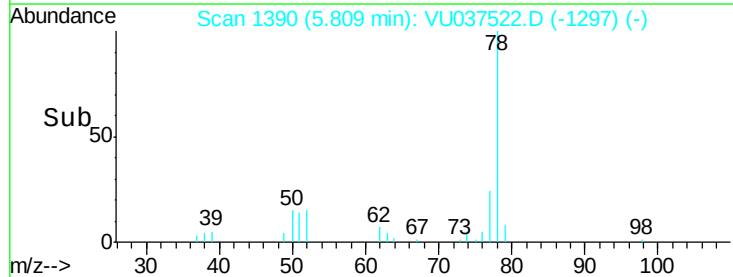
4000

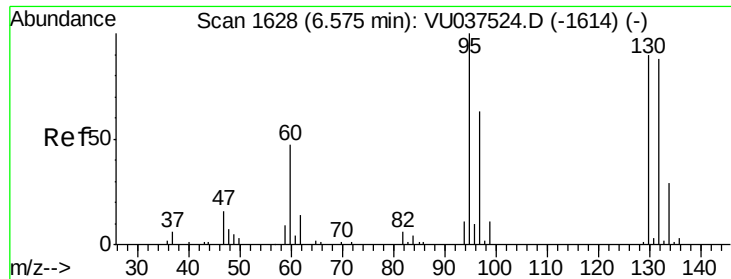
2000

0

5.75 5.80 5.85

Time-->

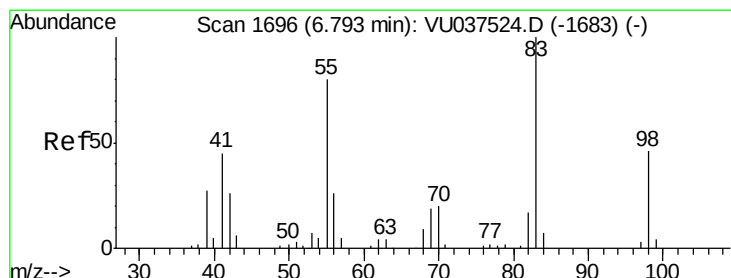
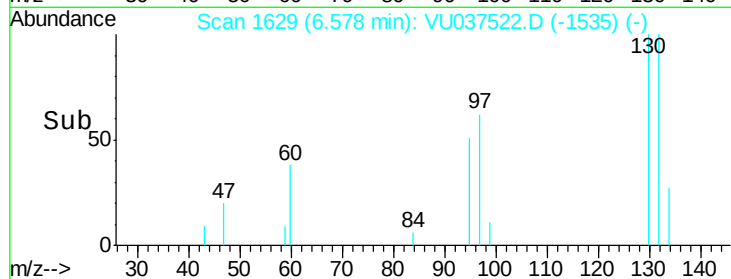
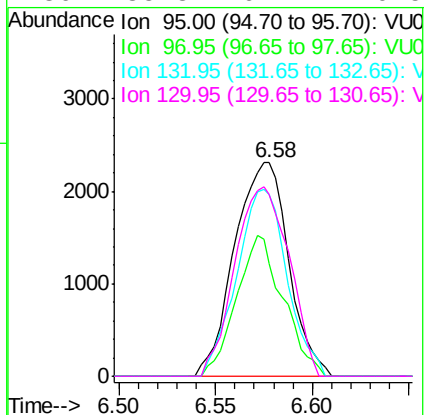
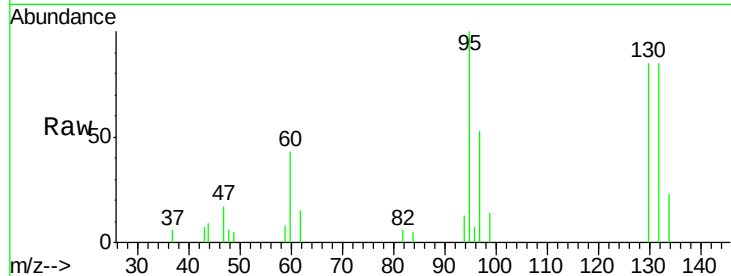




#34
 Trichloroethene
 Concen: 0.59 ug/L
 RT: 6.58 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

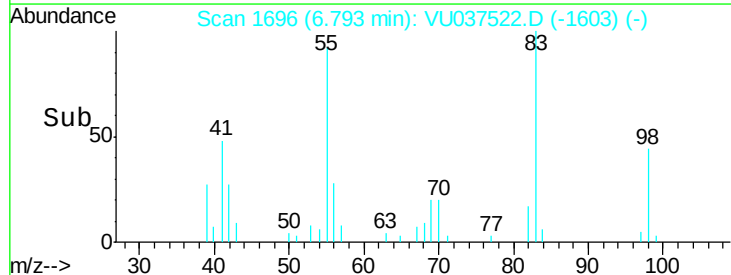
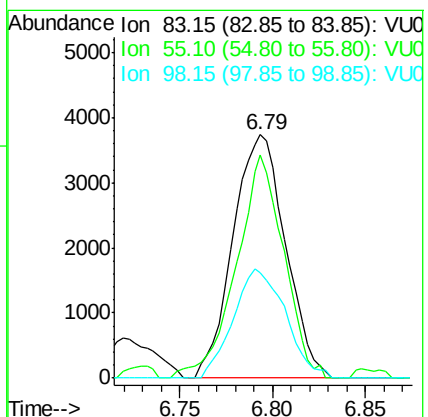
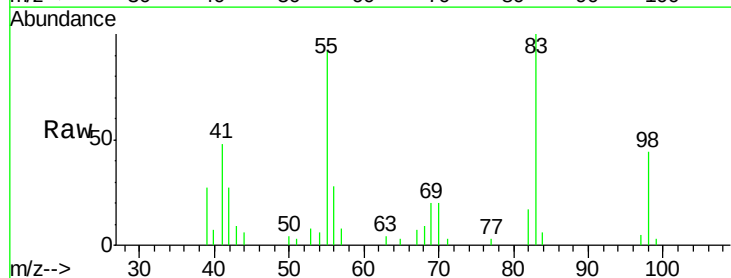
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

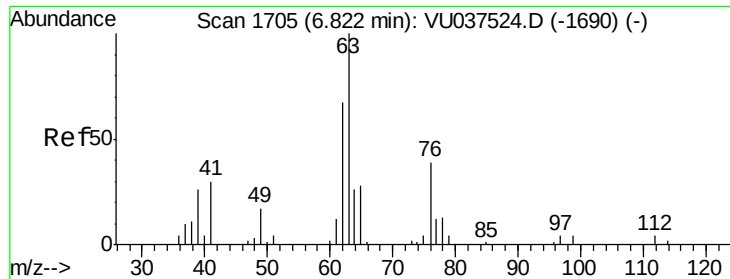
Tgt Ion: 95 Resp: 4485
 Ion Ratio Lower Upper
 95 100
 97 52.6 44.0 81.8
 132 84.9 61.9 114.9
 130 85.3 62.7 116.5



#35
 Methylcyclohexane
 Concen: 0.58 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion: 83 Resp: 7375
 Ion Ratio Lower Upper
 83 100
 55 82.8 63.0 94.6
 98 44.7 35.3 52.9

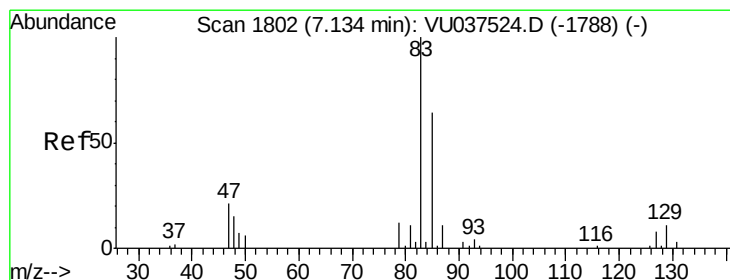
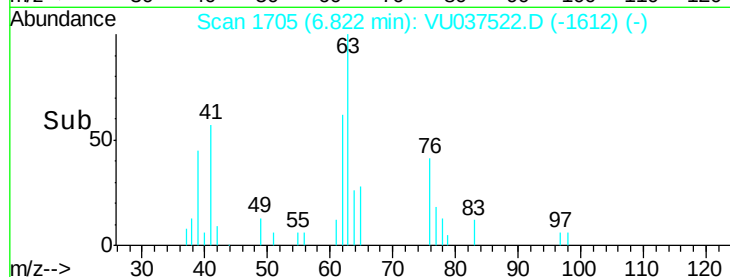
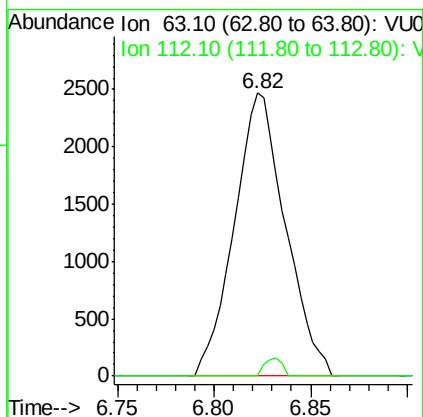
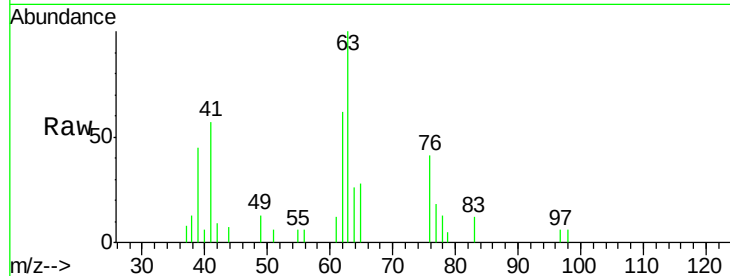




#37
 1,2-Dichloropropane
 Concen: 0.59 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

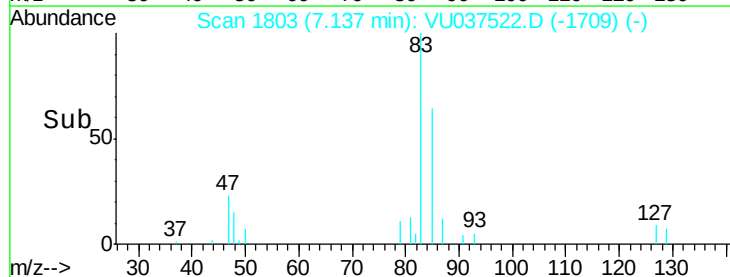
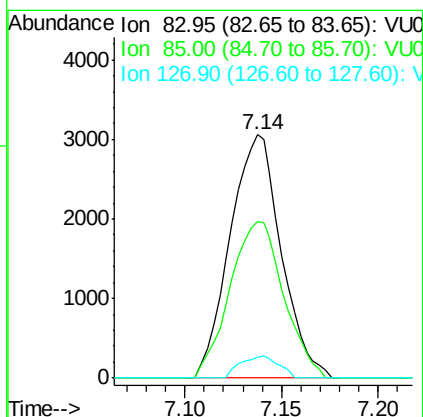
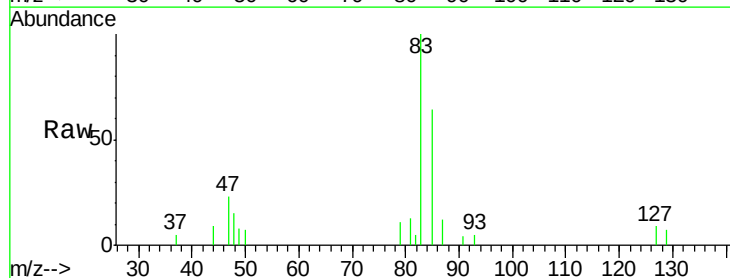
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

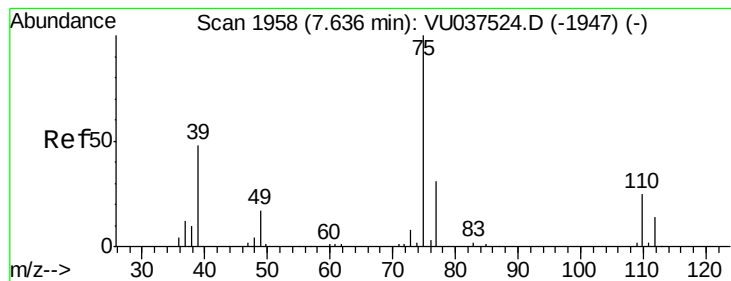
Tgt Ion: 63 Resp: 4537
 Ion Ratio Lower Upper
 63 100
 112 2.2 2.6 3.8#



#38
 Bromodichloromethane
 Concen: 0.56 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion: 83 Resp: 5616
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.4 82.5
 127 8.7 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 0.57 ug/L

RT: 7.64 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

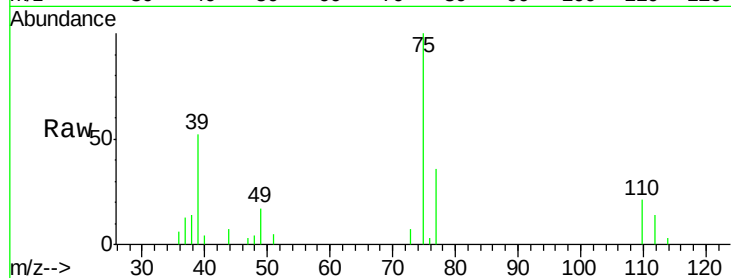
VSTD0.504

Tgt Ion: 75 Resp: 6783

Ion Ratio Lower Upper

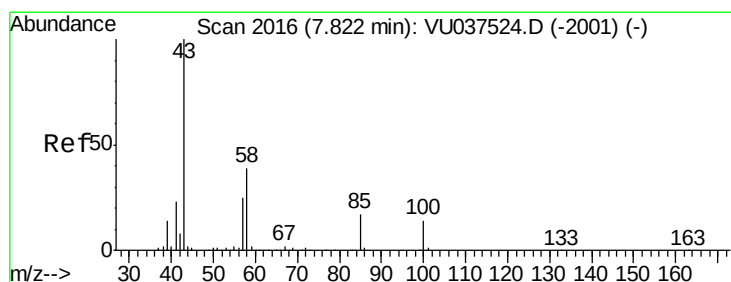
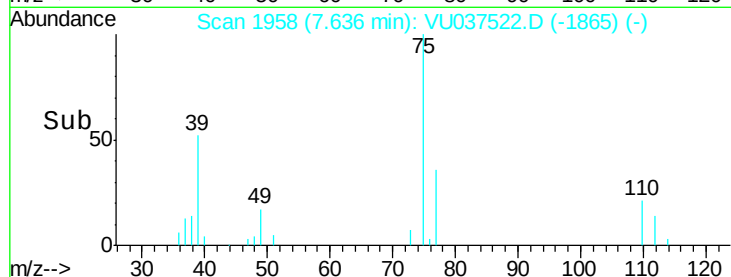
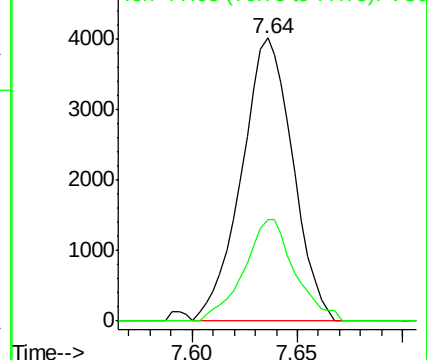
75 100

77 36.0 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 5.52 ug/L

RT: 7.82 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

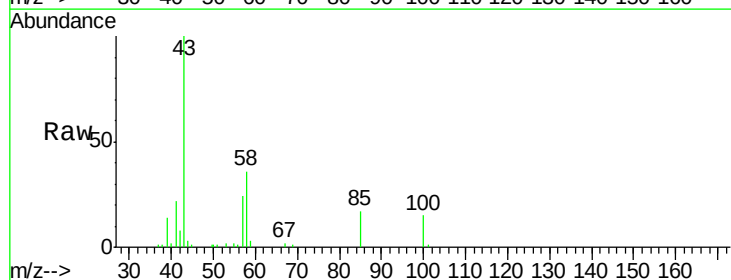
Tgt Ion: 43 Resp: 31151

Ion Ratio Lower Upper

43 100

58 35.6 31.7 47.5

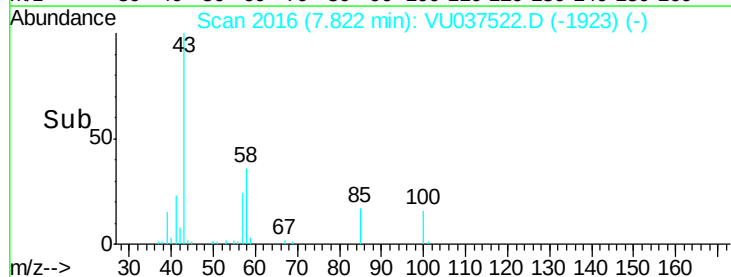
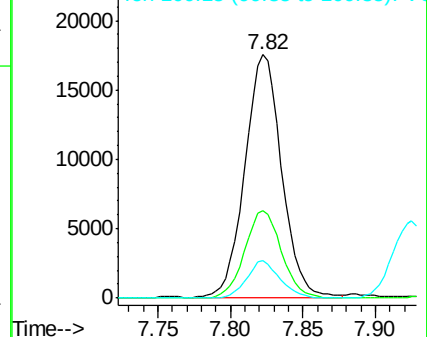
100 13.8 11.0 16.6

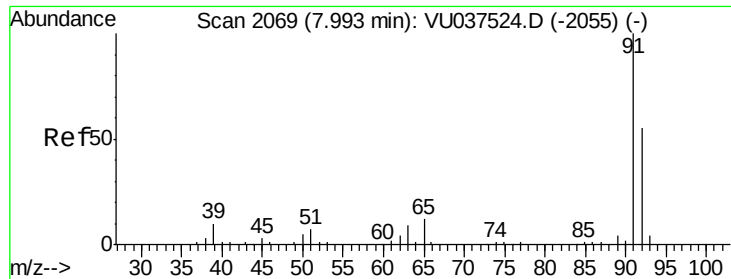


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 0.56 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

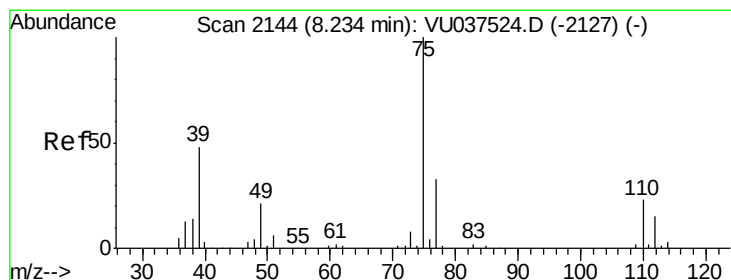
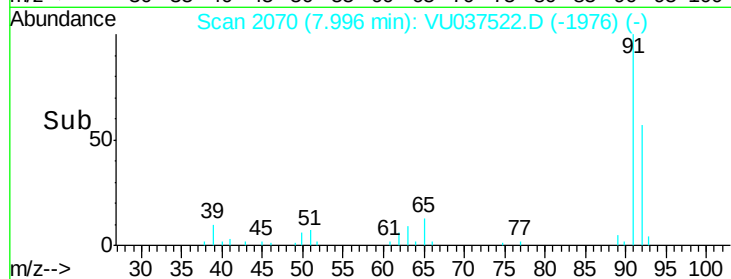
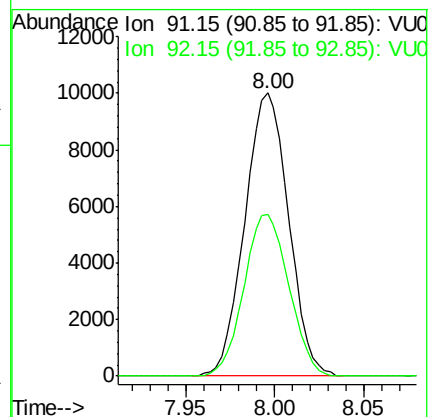
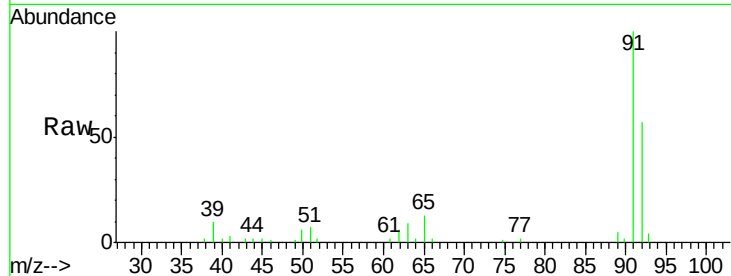
VSTD0.504

Tgt Ion: 91 Resp: 17142

Ion Ratio Lower Upper

91 100

92 57.2 38.6 71.8



#44

trans-1,3-Dichloropropene

Concen: 0.55 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037522.D

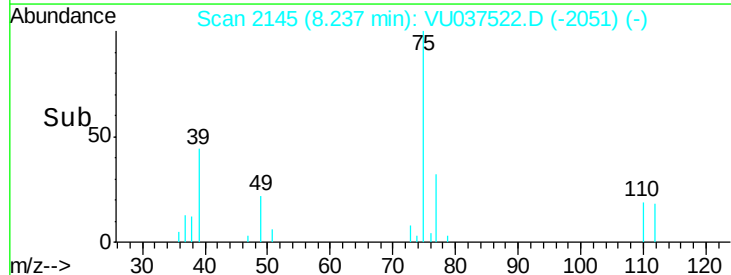
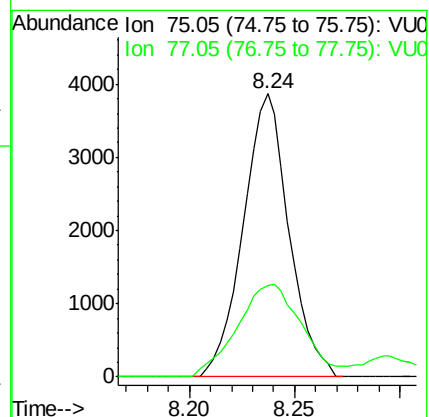
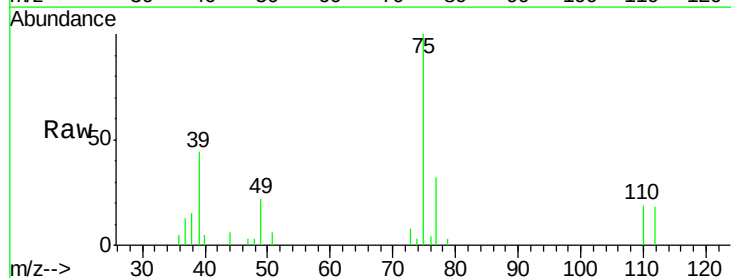
Acq: 01 Apr 2020 13:49

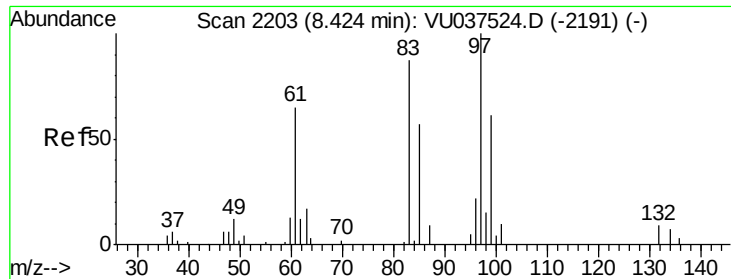
Tgt Ion: 75 Resp: 5822

Ion Ratio Lower Upper

75 100

77 32.2 22.9 42.5

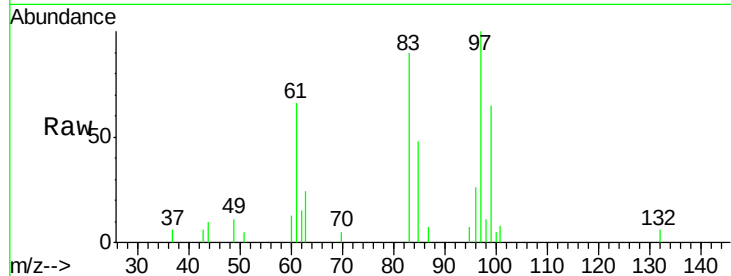




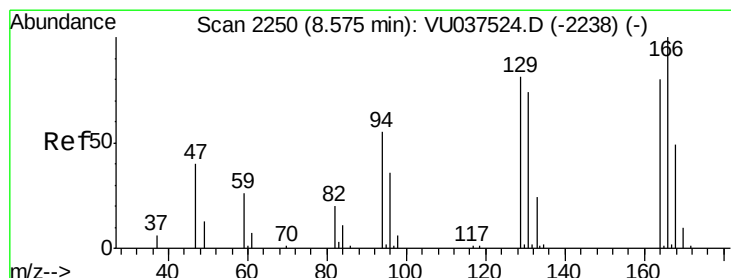
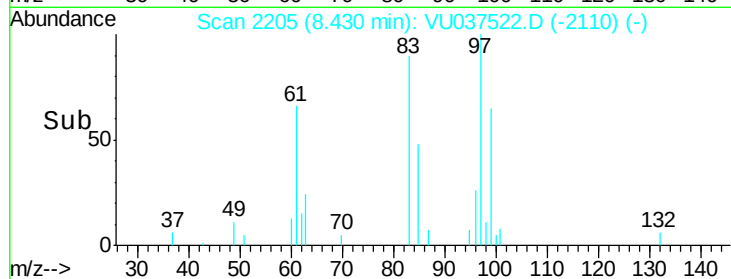
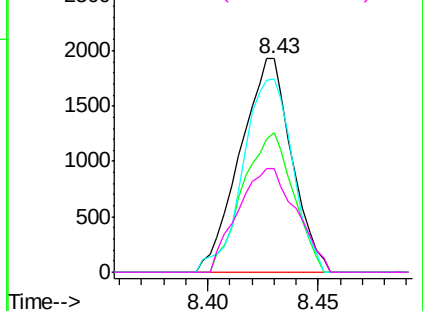
#45
 1,1,2-Trichloroethane
 Concen: 0.57 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. 0.01 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tgt Ion:	97	Resp:	3129
Ion	Ratio	Lower	Upper
97	100		
99	65.1	42.8	79.4
83	90.2	61.0	113.4
85	48.3	39.8	73.8

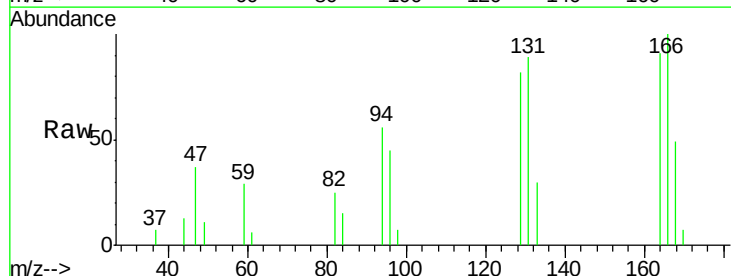


Abundance Ion 96.95 (96.65 to 97.65): VU037522.D (-2191) (-)
 Ion 99.05 (98.75 to 99.75): VU037522.D (-2191) (-)
 Ion 82.95 (82.65 to 83.65): VU037522.D (-2191) (-)
 Ion 85.00 (84.70 to 85.70): VU037522.D (-2191) (-)

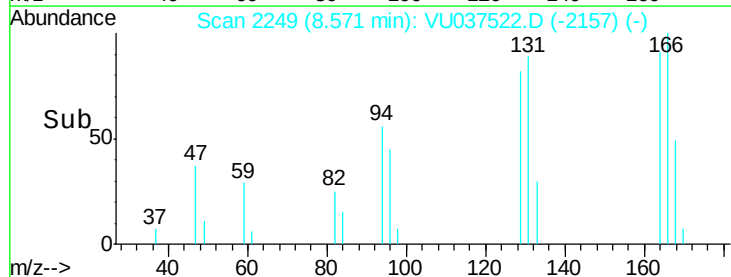
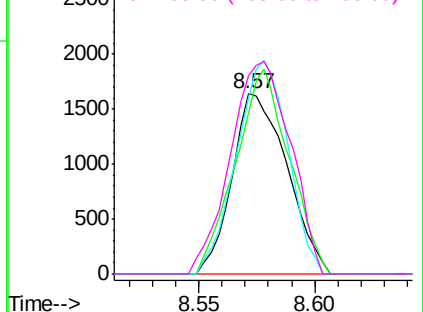


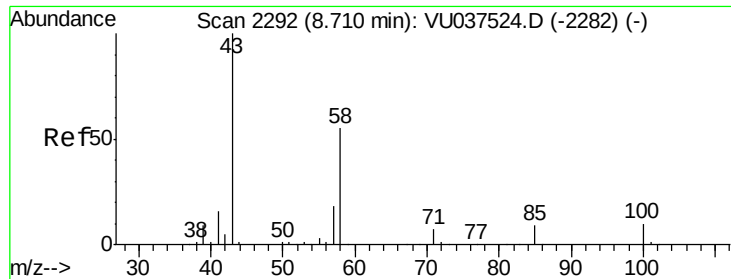
#47
 Tetrachloroethene
 Concen: 0.53 ug/L
 RT: 8.57 min Scan# 2249
 Delta R.T. -0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion:	164	Resp:	2700
Ion	Ratio	Lower	Upper
164	100		
129	89.9	70.4	130.8
131	98.0	64.4	119.6
166	109.9	87.1	161.7



Abundance Ion 163.90 (163.60 to 164.60): VU037522.D (-2157) (-)
 Ion 128.95 (128.65 to 129.65): VU037522.D (-2157) (-)
 Ion 130.95 (130.65 to 131.65): VU037522.D (-2157) (-)
 Ion 165.90 (165.60 to 166.60): VU037522.D (-2157) (-)

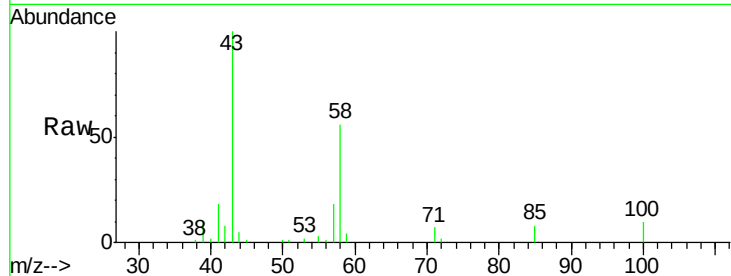




#48
2-Hexanone
Concen: 5.55 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU037522.D
Acq: 01 Apr 2020 13:49

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tgt Ion:	43	Resp:	22592
Ion	Ratio	Lower	Upper
43	100		
58	58.0	45.0	67.6
57	18.3	14.9	22.3
100	10.0	8.4	12.6

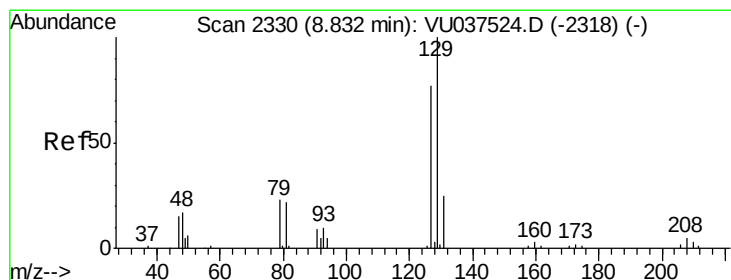
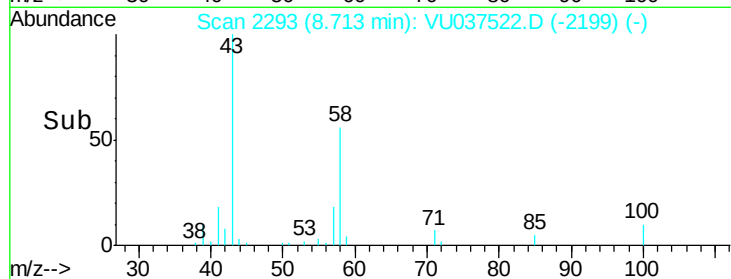
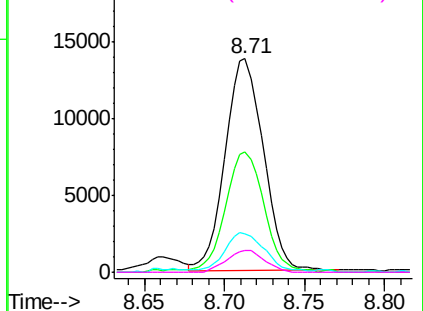


Abundance Ion 43.05 (42.75 to 43.75): VU037522.D (-2199) (-)

Ion 58.05 (57.75 to 58.75): VU037522.D (-2199) (-)

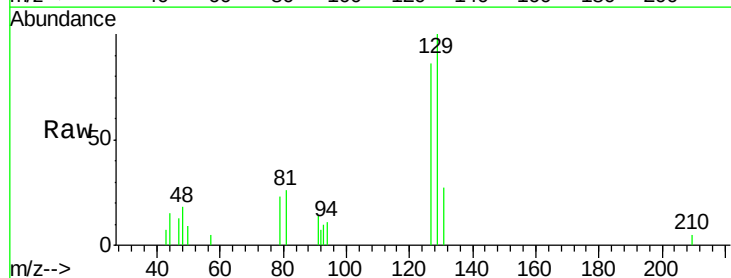
Ion 57.20 (56.90 to 57.90): VU037522.D (-2199) (-)

Ion 100.15 (99.85 to 100.85): VU037522.D (-2199) (-)



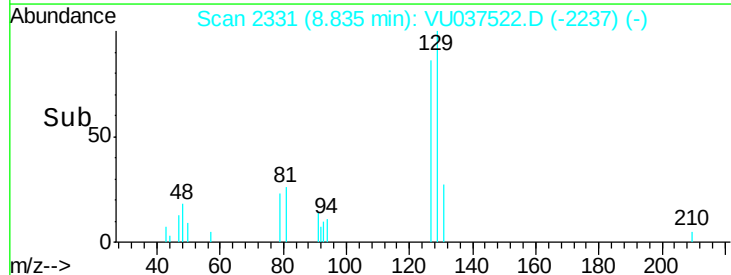
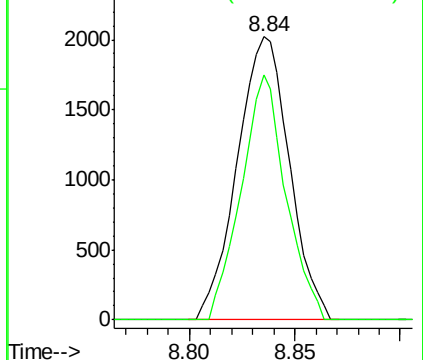
#49
Dibromochloromethane
Concen: 0.53 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037522.D
Acq: 01 Apr 2020 13:49

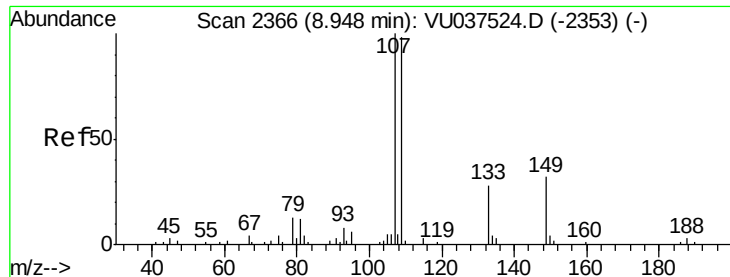
Tgt Ion:	129	Resp:	3479
Ion	Ratio	Lower	Upper
129	100		
127	86.5	53.6	99.6



Abundance Ion 128.95 (128.65 to 129.65): VU037522.D (-2237) (-)

Ion 126.90 (126.60 to 127.60): VU037522.D (-2237) (-)

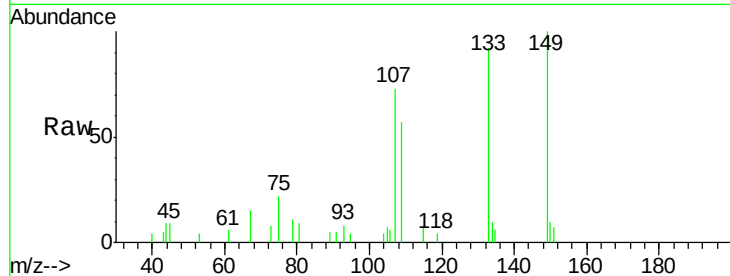




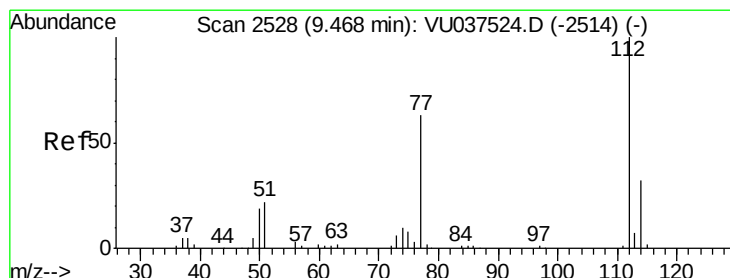
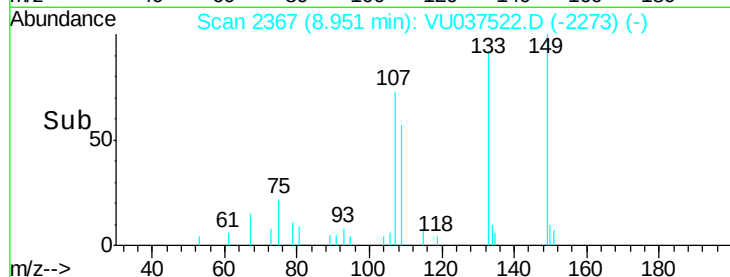
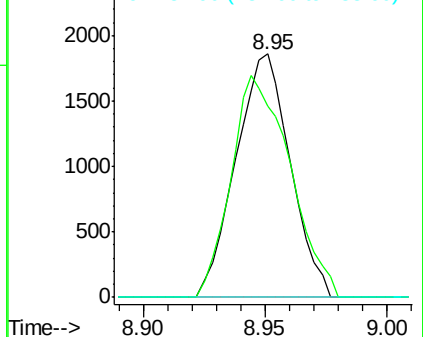
#50
 1,2-Dibromoethane
 Concen: 0.53 ug/L
 RT: 8.95 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tgt Ion:107 Resp: 2867
 Ion Ratio Lower Upper
 107 100
 109 78.4 68.9 127.9
 188 0.0 2.2 3.4#

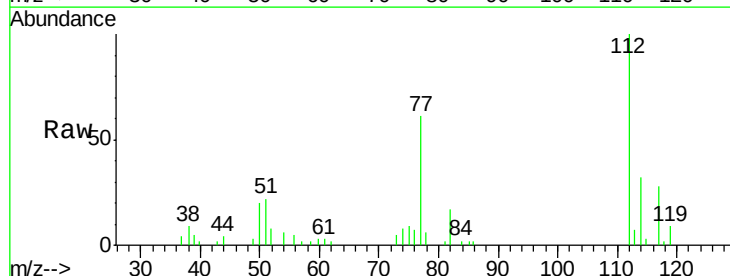


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

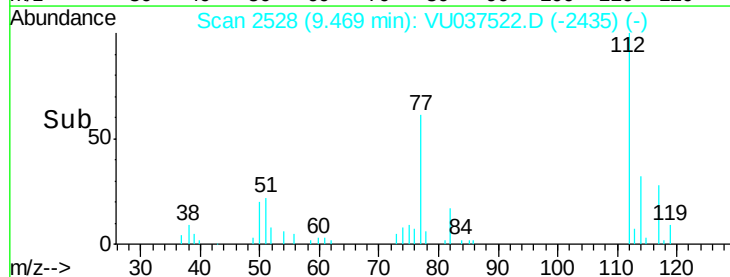
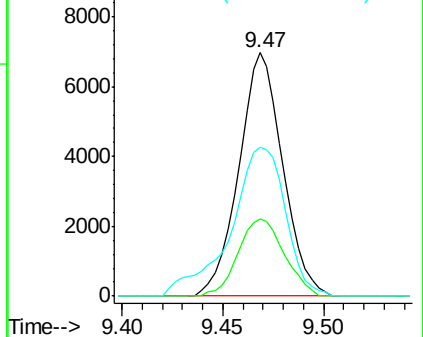


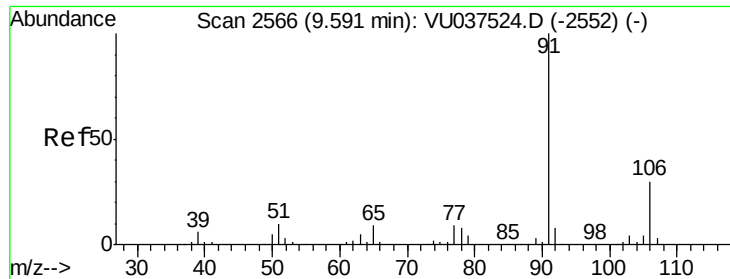
#51
 Chlorobenzene
 Concen: 0.56 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion:112 Resp: 10607
 Ion Ratio Lower Upper
 112 100
 114 31.7 22.4 41.6
 77 61.0 50.7 76.1



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.56 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

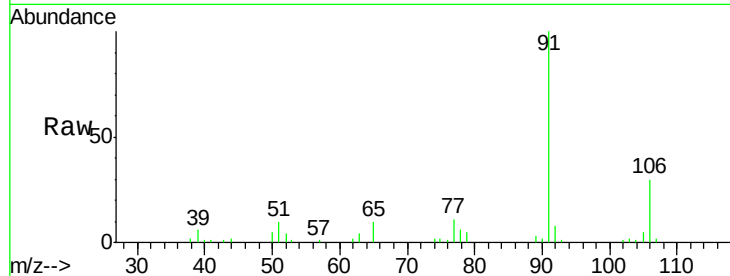
VSTD0.504

Tgt Ion: 91 Resp: 19711

Ion Ratio Lower Upper

91 100

106 29.7 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VU037522.D (-2552) (-)

Ion 106.15 (105.85 to 106.85): VU037522.D (-2552) (-)

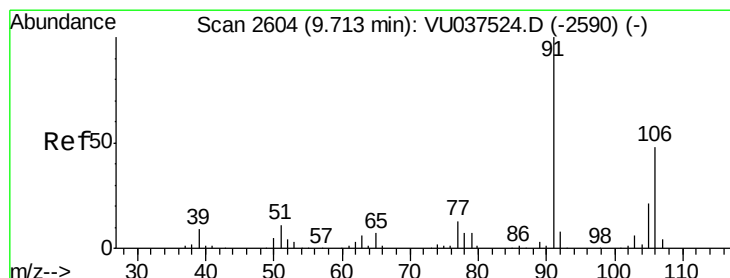
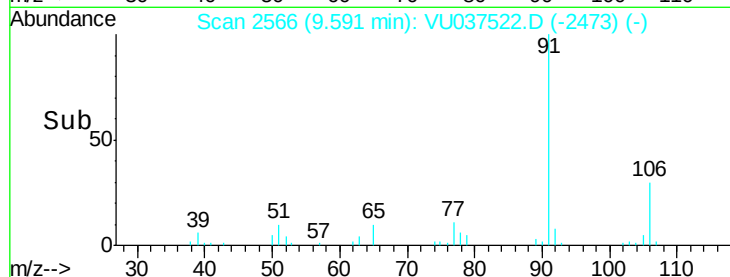
9.59

10000

5000

0

Time-->



#53

m,p-Xylene

Concen: 0.58 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037522.D

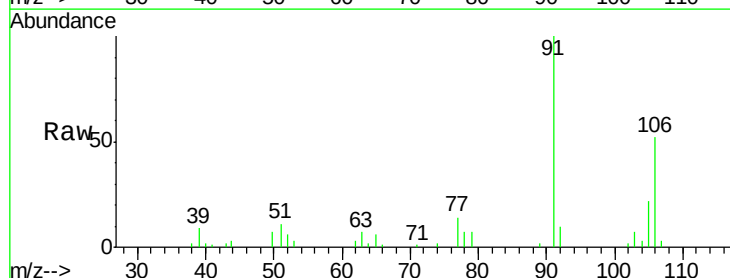
Acq: 01 Apr 2020 13:49

Tgt Ion: 106 Resp: 7644

Ion Ratio Lower Upper

106 100

91 193.9 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): VU037522.D (-2590) (-)

Ion 91.15 (90.85 to 91.85): VU037522.D (-2590) (-)

9.71

10000

8000

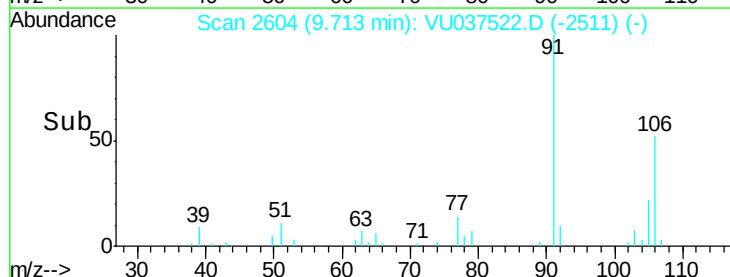
6000

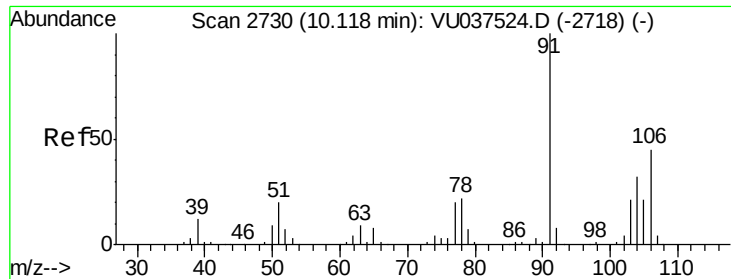
4000

2000

0

Time-->





#54

o-Xylene

Concen: 0.56 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

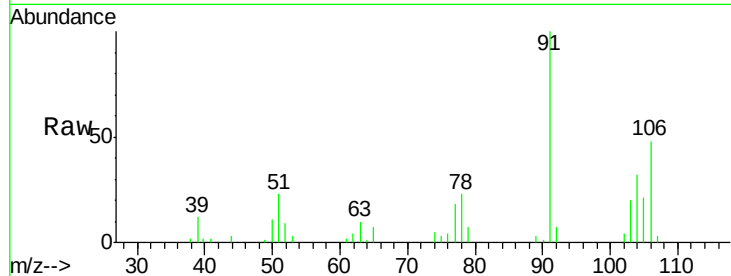
VSTD0.504

Tgt Ion:106 Resp: 7008

Ion Ratio Lower Upper

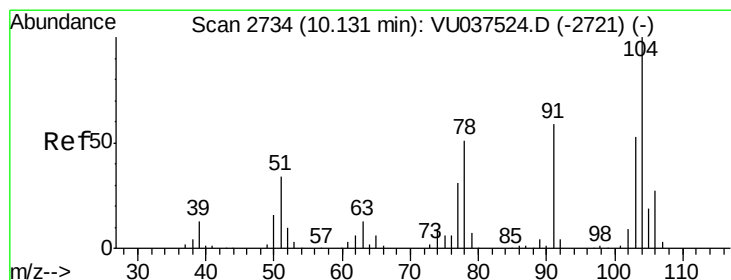
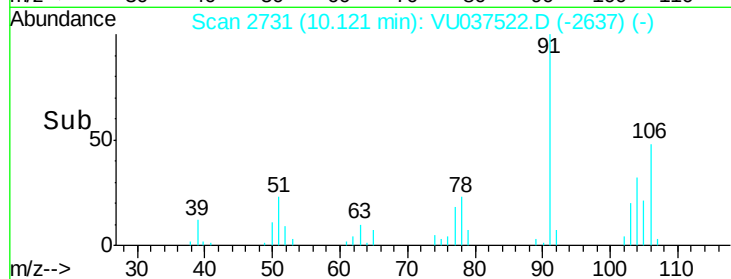
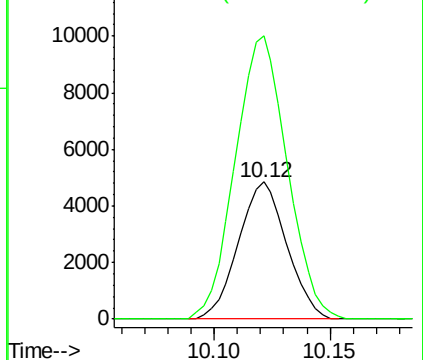
106 100

91 206.7 156.8 291.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.55 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037522.D

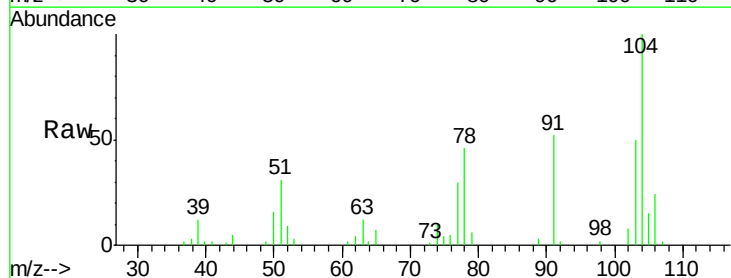
Acq: 01 Apr 2020 13:49

Tgt Ion:104 Resp: 12014

Ion Ratio Lower Upper

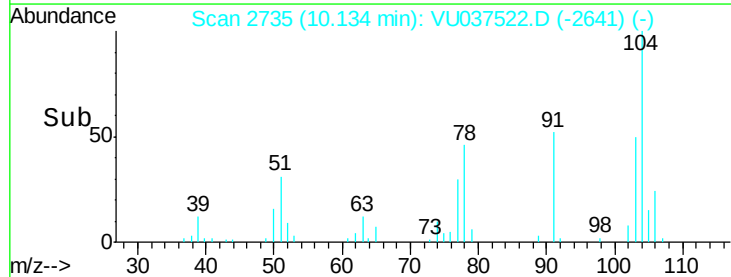
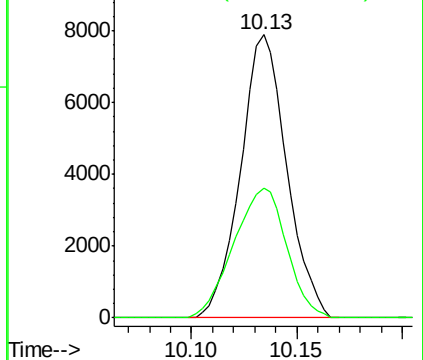
104 100

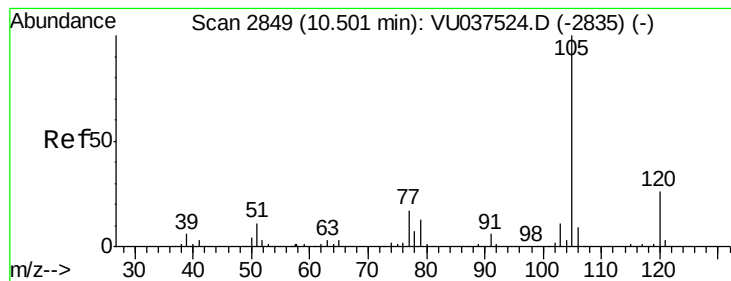
78 45.8 36.1 67.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.59 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

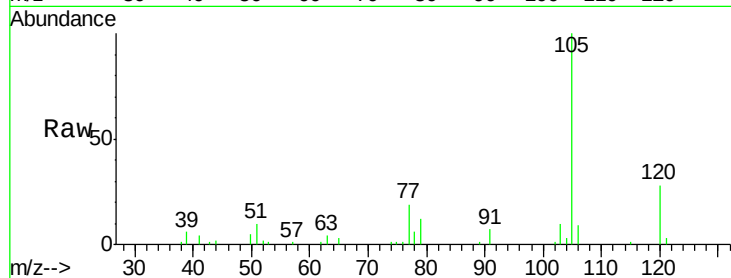
Tgt Ion: 105 Resp: 19840

Ion Ratio Lower Upper

105 100

120 28.2 20.6 31.0

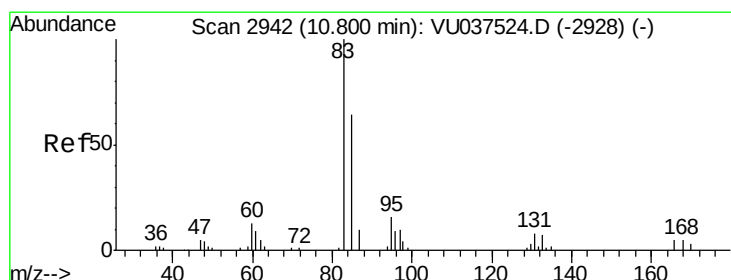
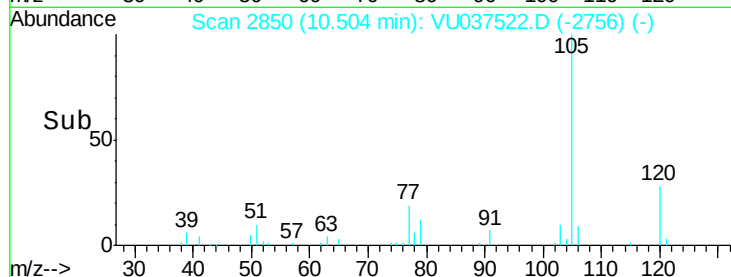
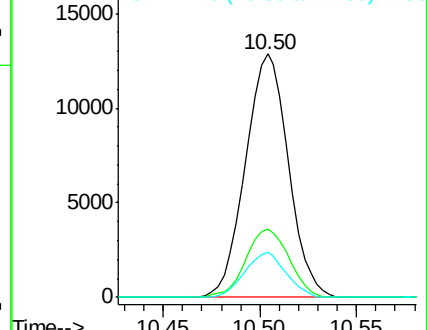
77 17.6 13.5 20.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.57 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

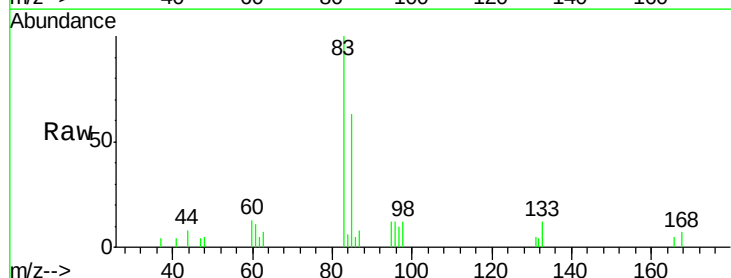
Tgt Ion: 83 Resp: 4205

Ion Ratio Lower Upper

83 100

85 62.7 45.2 84.0

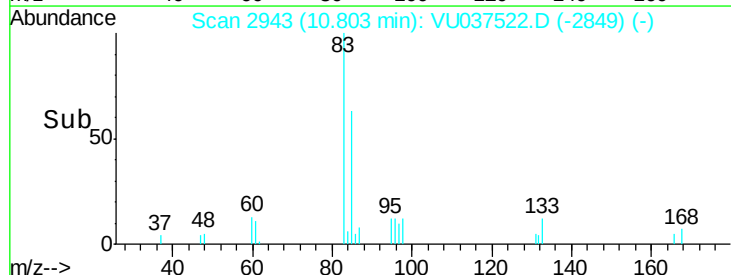
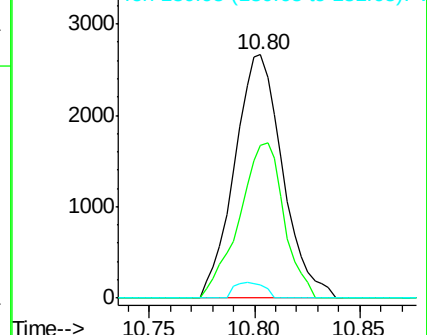
131 5.3 6.6 9.8#

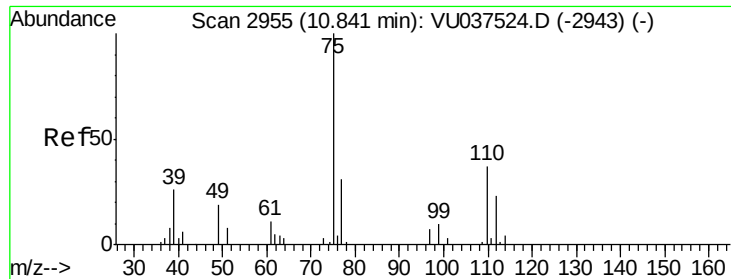


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

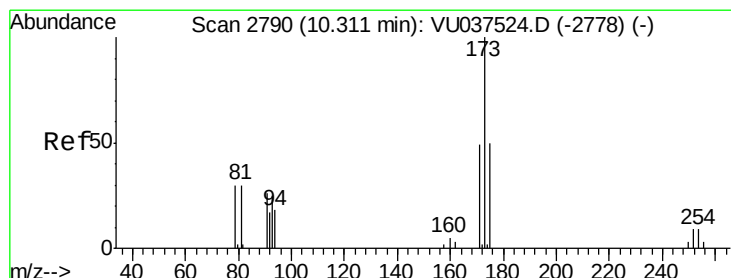
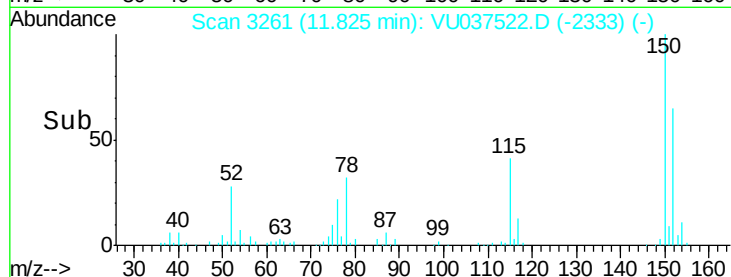
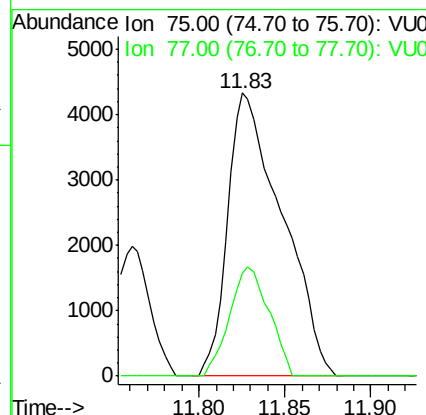
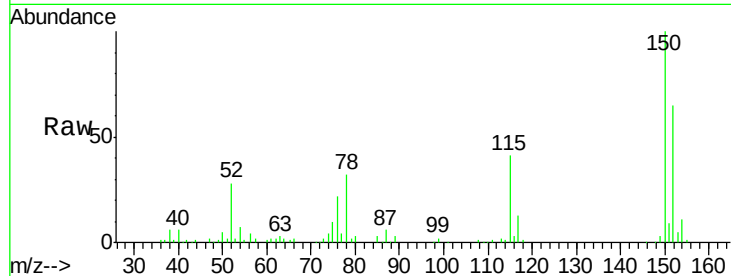




#59
 1,2,3-Trichloropropane
 Concen: 1.81 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

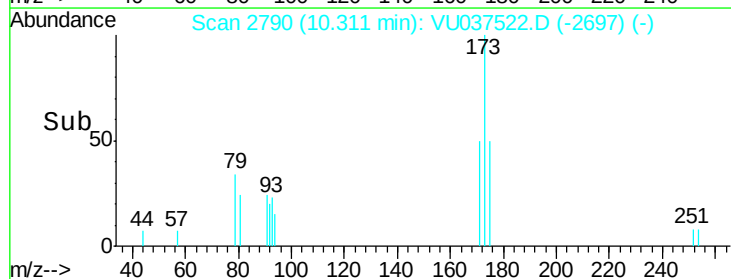
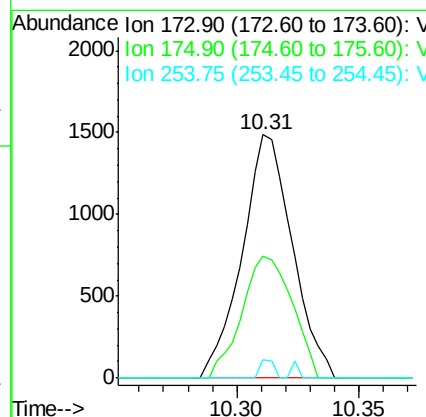
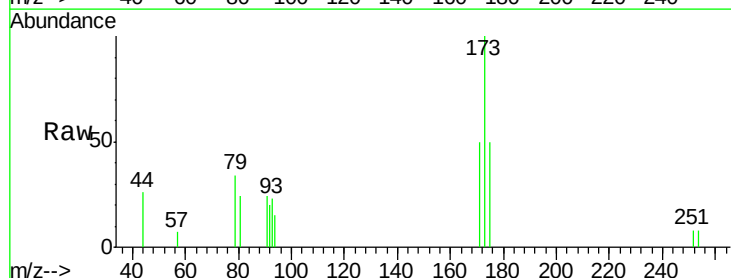
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

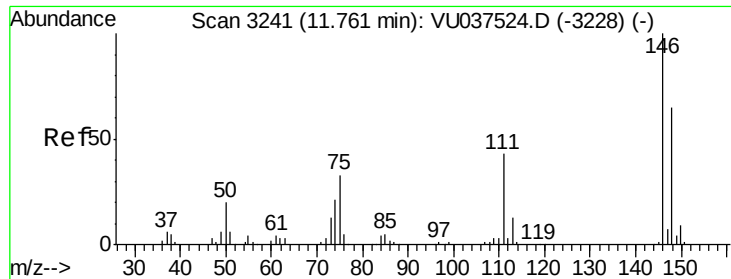
Tgt Ion: 75 Resp: 9496
 Ion Ratio Lower Upper
 75 100
 77 28.0 25.8 38.6



#61
 Bromoform
 Concen: 0.55 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion: 173 Resp: 2118
 Ion Ratio Lower Upper
 173 100
 175 50.4 37.2 55.8
 254 2.0 7.7 11.5#

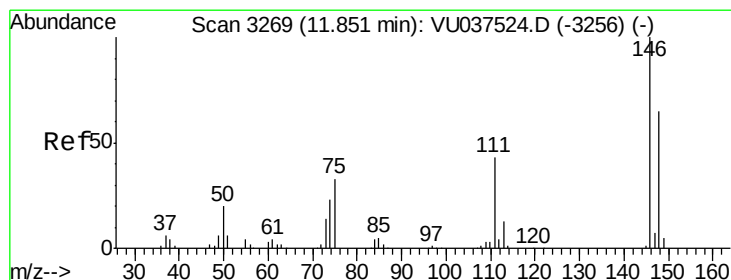
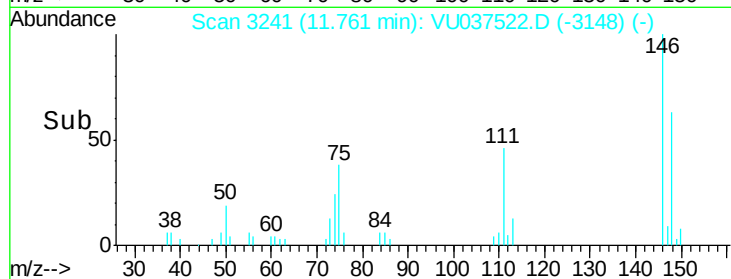
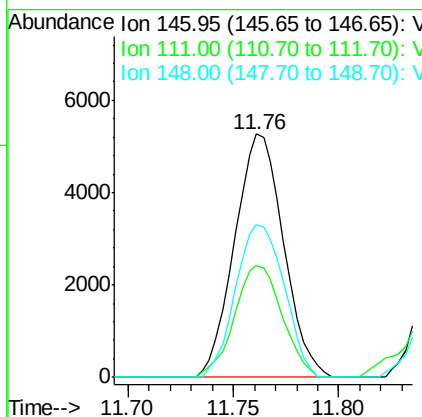
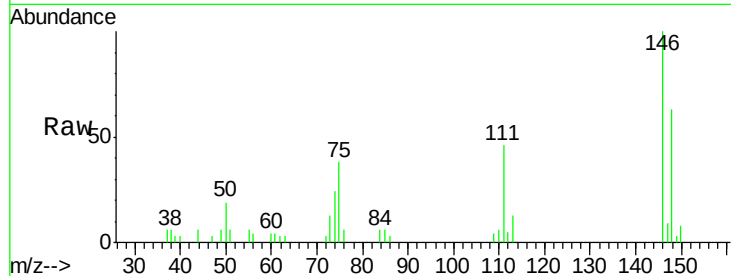




#62
 1,3-Dichlorobenzene
 Concen: 0.55 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

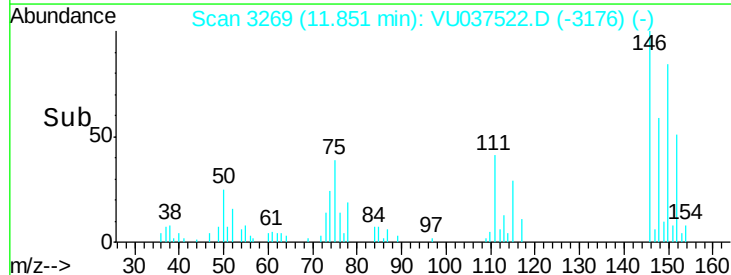
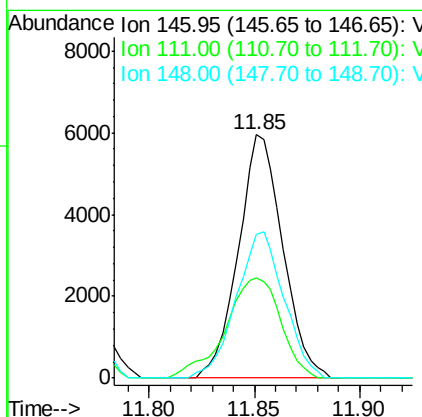
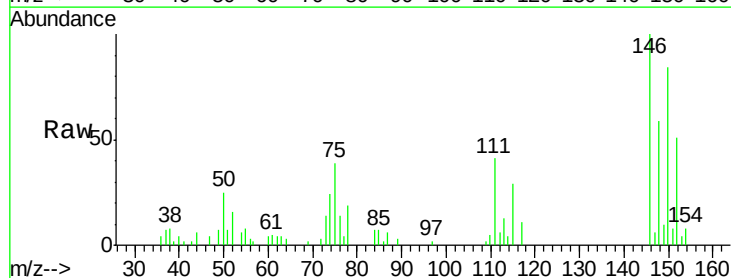
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

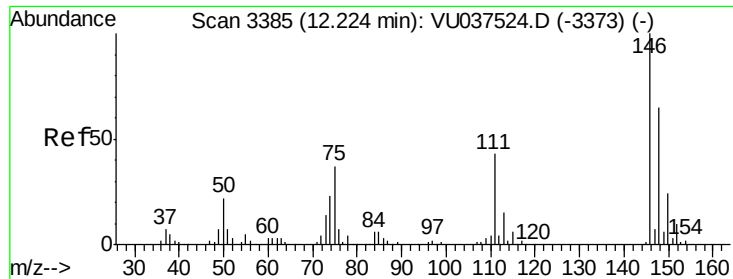
Tgt Ion:146 Resp: 8490
 Ion Ratio Lower Upper
 146 100
 111 45.9 29.8 55.4
 148 62.8 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 0.56 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Tgt Ion:146 Resp: 8716
 Ion Ratio Lower Upper
 146 100
 111 41.1 29.9 55.5
 148 58.9 45.6 84.8





#65

1,2-Dichlorobenzene

Concen: 0.61 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

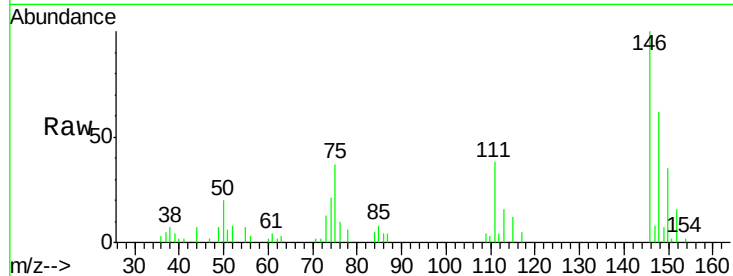
Tgt Ion:146 Resp: 8681

Ion Ratio Lower Upper

146 100

111 37.9 34.2 51.4

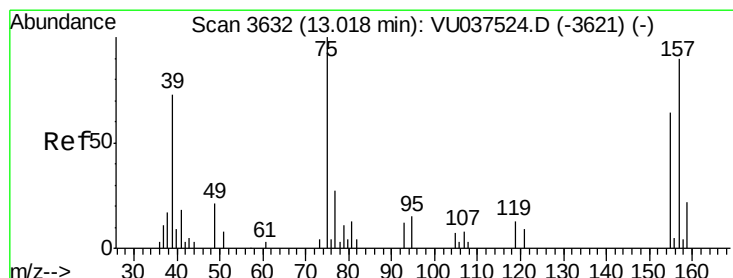
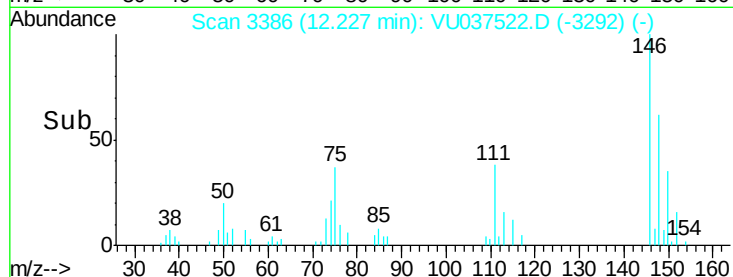
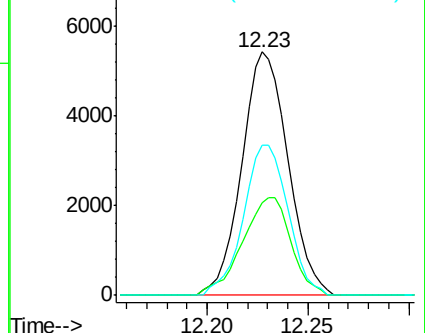
148 61.8 52.2 78.4



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: 0.49 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

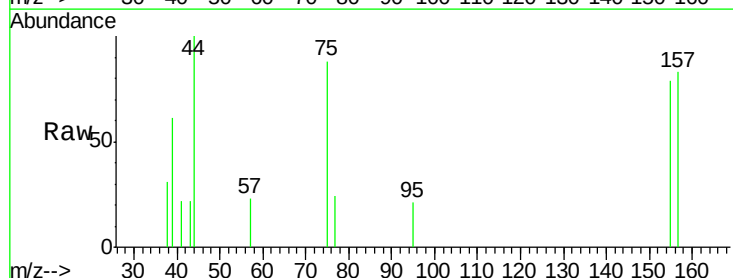
Tgt Ion: 75 Resp: 731

Ion Ratio Lower Upper

75 100

155 90.3 51.0 76.4#

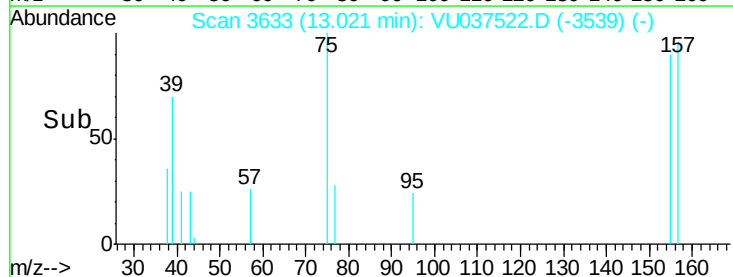
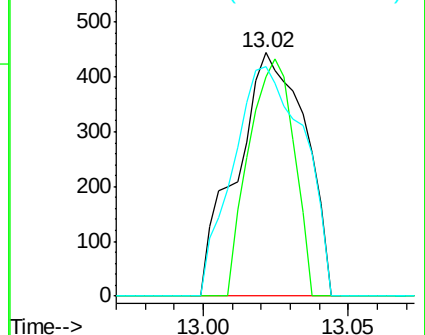
157 94.6 72.0 108.0

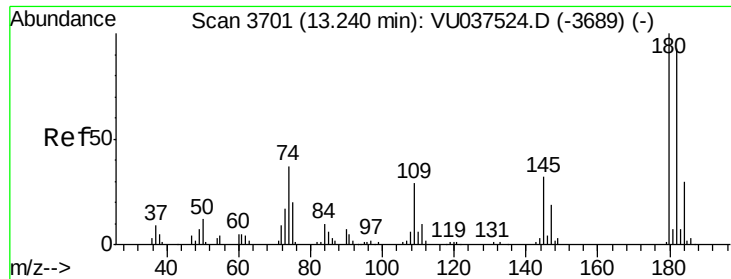


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

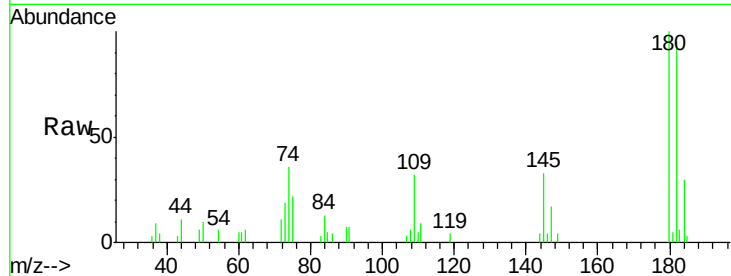




#67
 1,3,5-Trichlorobenzene
 Concen: 0.58 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.01 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tgt Ion:	180	Resp:	6182
Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.9	116.9
184	28.2	25.0	37.6
145	34.2	27.0	40.4

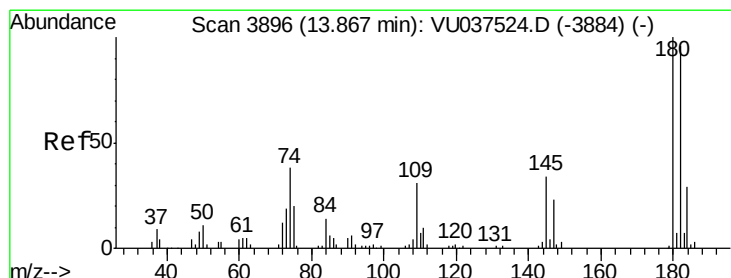
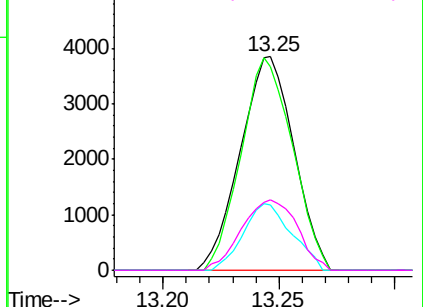
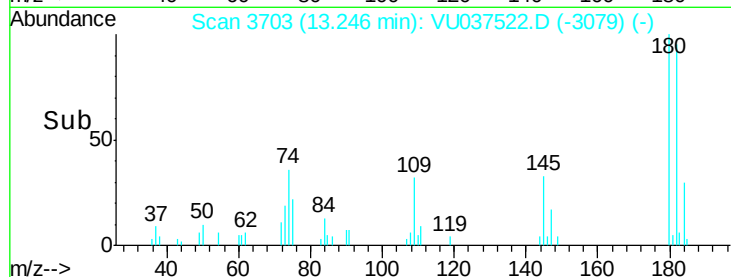


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

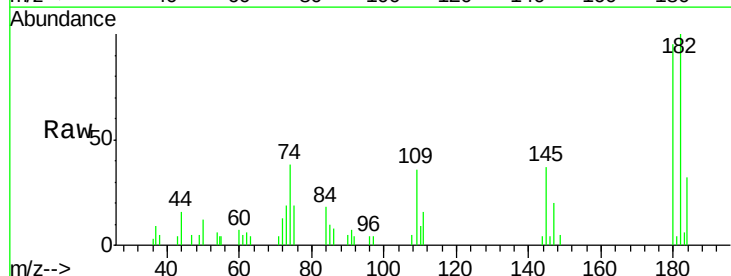
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.49 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.01 min
 Lab File: VU037522.D
 Acq: 01 Apr 2020 13:49

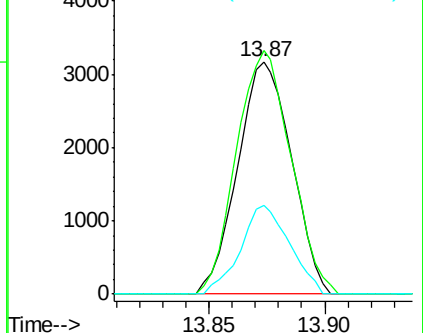
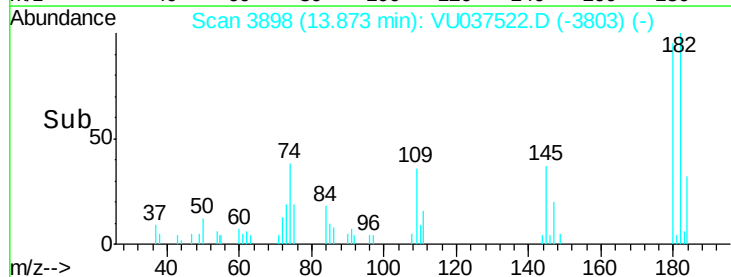
Tgt Ion:	180	Resp:	5117
Ion	Ratio	Lower	Upper
180	100		
182	105.9	77.4	116.2
145	34.8	27.5	41.3

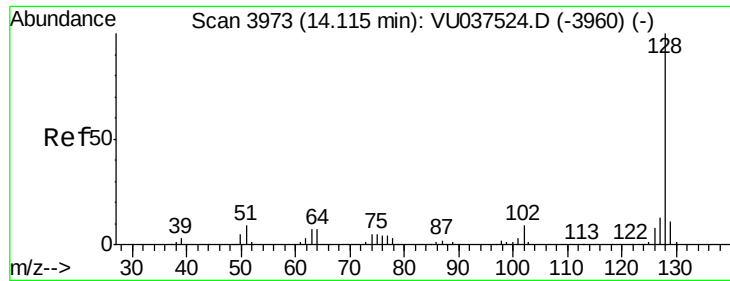


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.54 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

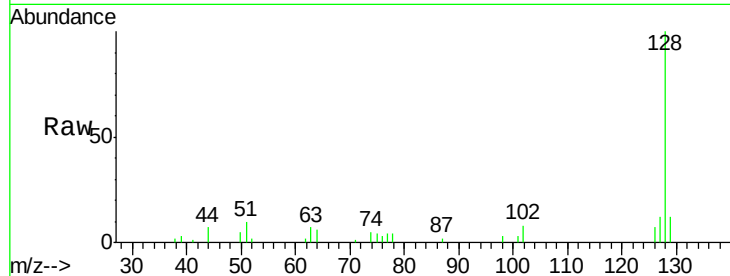
Tgt Ion:128 Resp: 12654

Ion Ratio Lower Upper

128 100

129 11.6 8.4 12.6

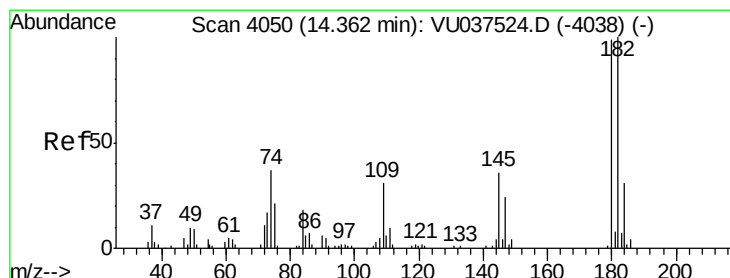
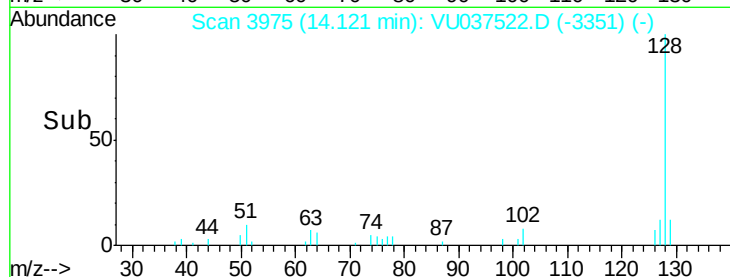
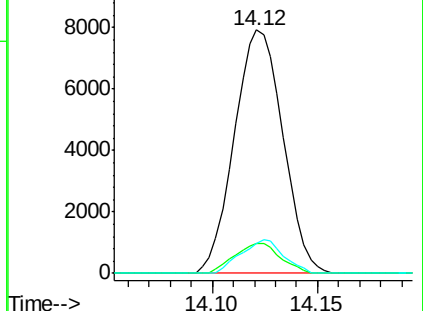
127 12.1 10.4 15.6



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: 0.55 ug/L

RT: 14.37 min Scan# 4053

Delta R.T. 0.01 min

Lab File: VU037522.D

Acq: 01 Apr 2020 13:49

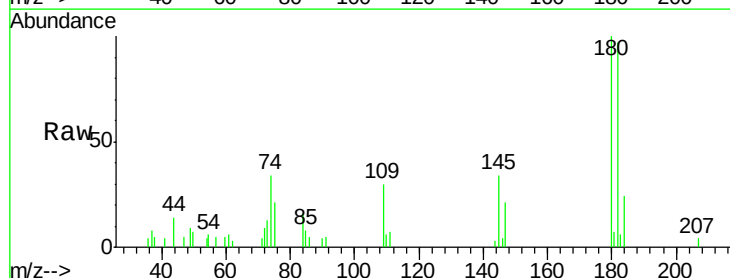
Tgt Ion:180 Resp: 4945

Ion Ratio Lower Upper

180 100

182 95.5 78.7 118.1

145 37.2 30.2 45.2



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

