

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040120\
 Data File : VU037523.D
 Acq On : 01 Apr 2020 14:13
 Operator : JC/MD
 Sample : VSTD00105
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Quant Time: Apr 01 15:06:59 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	86565	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	80849	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	40992	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	7701	1.20	ug/L	0.00
7) Chloroethane-d5	1.93	69	6110	1.11	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	13175	1.06	ug/L	0.00
20) 2-Butanone-d5	4.67	46	20141	10.34	ug/L	0.00
24) Chloroform-d	5.11	84	12794	1.06	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	7098	1.05	ug/L	0.00
32) Benzene-d6	5.76	84	26331	1.12	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	8594	1.11	ug/L	0.00
41) Toluene-d8	7.92	98	23932	1.10	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	3655	1.05	ug/L	0.00
46) 2-Hexanone-d5	8.66	63	19052	11.75	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	7308	1.14	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	8717	1.10	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	6716	1.01	ug/L	97
3) Chloromethane	1.53	50	6831	1.03	ug/L	89
5) Vinyl chloride	1.62	62	7040	0.99	ug/L	97
6) Bromomethane	1.87	94	3601	1.00	ug/L	91
8) Chloroethane	1.95	64	4746	1.17	ug/L	97
9) Trichlorofluoromethane	2.16	101	10303	1.04	ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	5302	0.91	ug/L	# 86
12) 1,1-Dichloroethene	2.61	96	5463	0.94	ug/L	91
13) Acetone	2.66	43	10920	9.95	ug/L	97
14) Carbon disulfide	2.82	76	18581	0.96	ug/L	98
15) Methyl Acetate	2.99	43	3561	1.17	ug/L	93
16) Methylene chloride	3.08	84	7170	1.10	ug/L	96
17) Methyl tert-butyl Ether	3.40	73	16254	1.01	ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	6257	1.03	ug/L	98
19) 1,1-Dichloroethane	3.91	63	11746	1.02	ug/L	93
21) 2-Butanone	4.75	43	18775	9.67	ug/L	100
22) cis-1,2-Dichloroethene	4.71	96	6943	1.02	ug/L	92
23) Bromochloromethane	5.01	128	2985	1.07	ug/L	91
25) Chloroform	5.13	83	12540	1.07	ug/L	96
27) 1,2-Dichloroethane	5.83	62	7765	0.99	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	10433	1.02	ug/L	97
30) Cyclohexane	5.42	56	11368	1.03	ug/L	99
31) Carbon tetrachloride	5.56	117	8459	1.00	ug/L	98
33) Benzene	5.81	78	26059	1.03	ug/L	100
34) Trichloroethene	6.57	95	6745	1.01	ug/L	97
35) Methylcyclohexane	6.79	83	11456	1.04	ug/L	99
37) 1,2-Dichloropropane	6.82	63	6980	1.04	ug/L	# 94
38) Bromodichloromethane	7.13	83	9196	1.05	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	10671	1.03	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	49486	10.04	ug/L	97

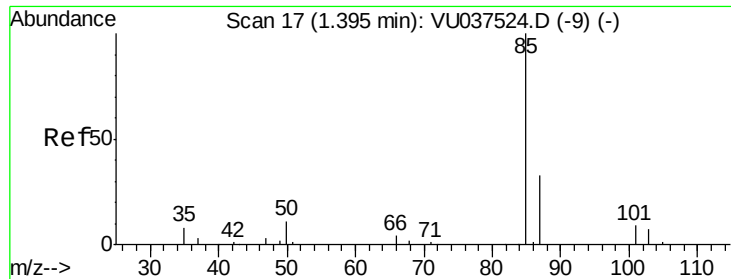
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040120\
 Data File : VU037523.D
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Quant Time: Apr 01 15:06:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 01 15:03:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	27504	1.03	ug/L	97
44) trans-1,3-Dichloropropene	8.23	75	8963	0.97	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	4821	1.01	ug/L	94
47) Tetrachloroethene	8.57	164	4360	0.98	ug/L	95
48) 2-Hexanone	8.71	43	36063	10.14	ug/L	98
49) Dibromochloromethane	8.83	129	5999	1.04	ug/L	98
50) 1,2-Dibromoethane	8.95	107	5075	1.08	ug/L #	92
51) Chlorobenzene	9.47	112	17261	1.04	ug/L	96
52) Ethylbenzene	9.59	91	30963	1.00	ug/L	97
53) m,p-Xylene	9.71	106	11720	1.02	ug/L	97
54) o-Xylene	10.12	106	11675	1.07	ug/L	97
55) Styrene	10.13	104	19648	1.04	ug/L	93
56) Isopropylbenzene	10.50	105	30491	1.04	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	6511	1.01	ug/L #	99
59) 1,2,3-Trichloropropane	10.84	75	4518	0.99	ug/L	97
61) Bromoform	10.31	173	3289	0.95	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	13361	0.98	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	14340	1.04	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	12915	1.01	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	1307	0.99	ug/L #	83
67) 1,3,5-Trichlorobenzene	13.24	180	9622	1.01	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	9829	1.07	ug/L	93
69) Naphthalene	14.12	128	20671	0.99	ug/L	98
70) 1,2,3-Trichlorobenzene	14.37	180	8034	1.00	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 1.01 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

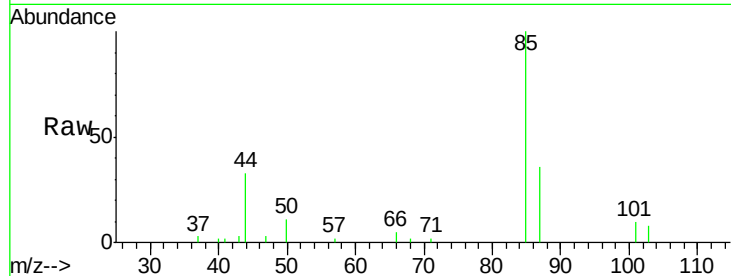
VSTD00105

Tgt Ion: 85 Resp: 6716

Ion Ratio Lower Upper

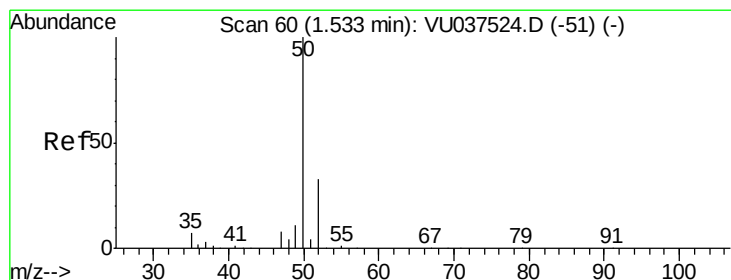
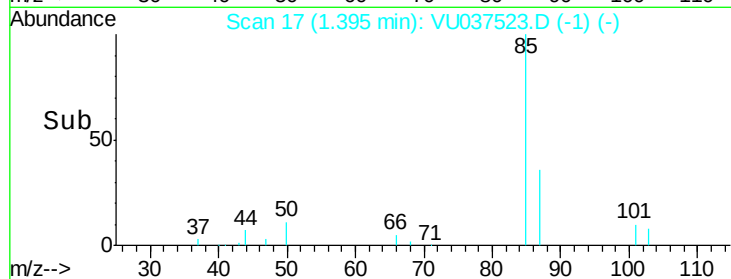
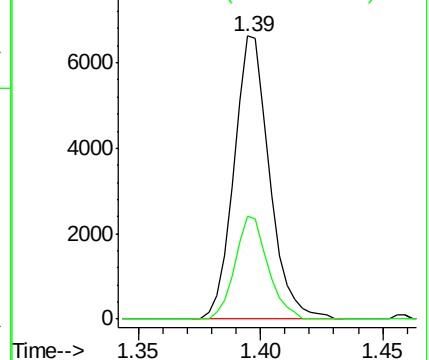
85 100

87 33.5 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 1.03 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037523.D

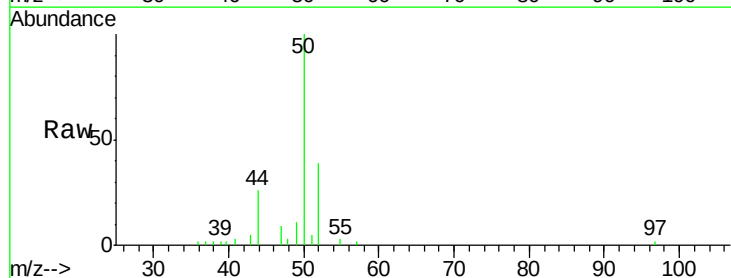
Acq: 01 Apr 2020 14:13

Tgt Ion: 50 Resp: 6831

Ion Ratio Lower Upper

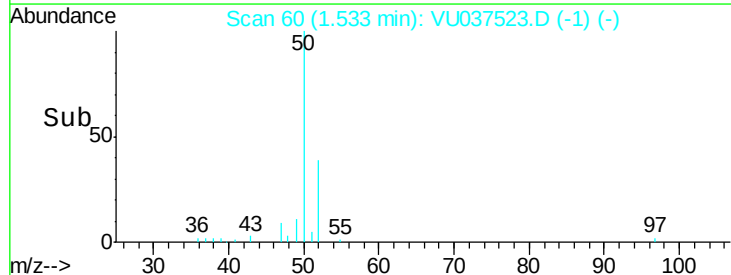
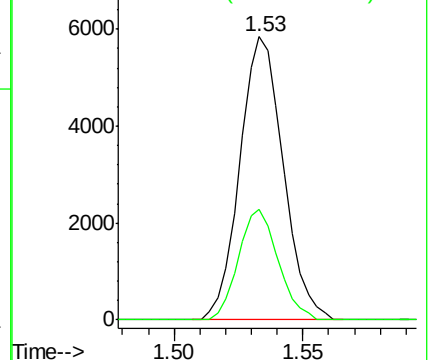
50 100

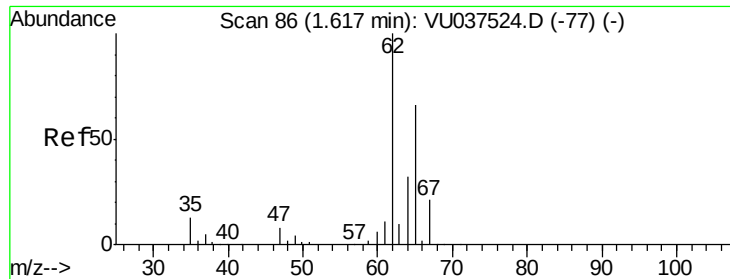
52 39.0 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.99 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

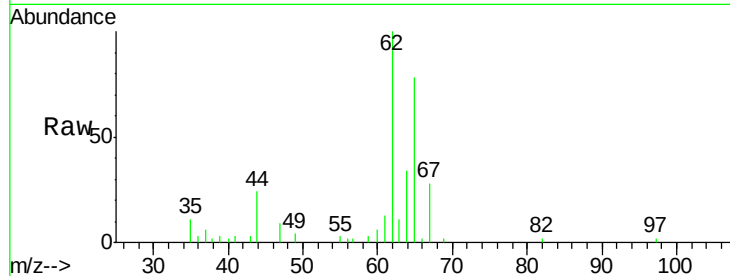
VSTD00105

Tgt Ion: 62 Resp: 7040

Ion Ratio Lower Upper

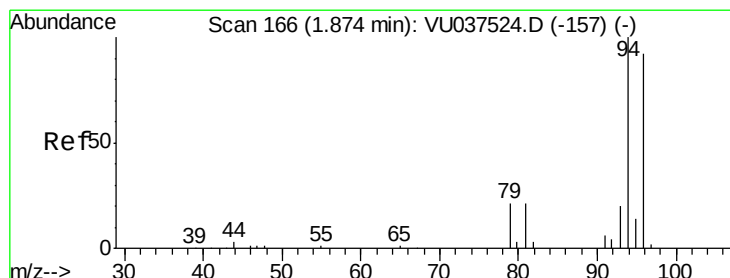
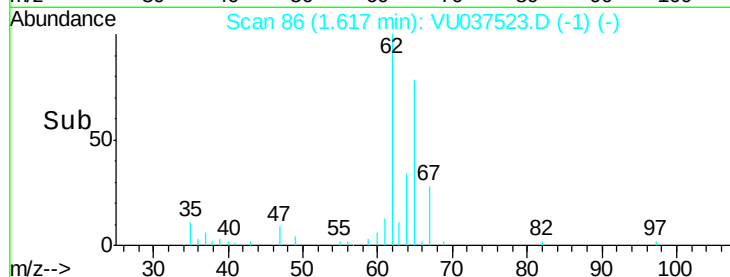
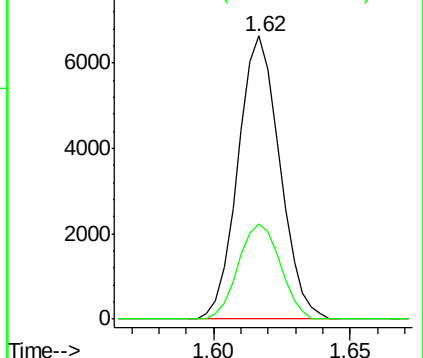
62 100

64 33.6 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 1.00 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU037523.D

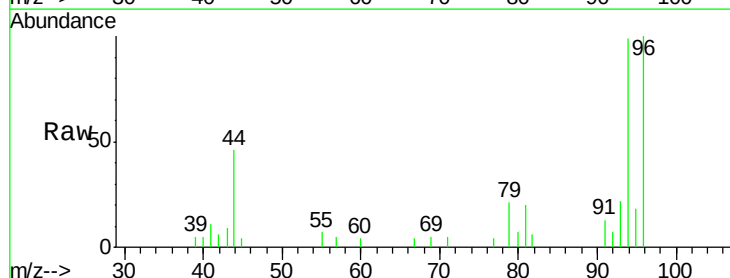
Acq: 01 Apr 2020 14:13

Tgt Ion: 94 Resp: 3601

Ion Ratio Lower Upper

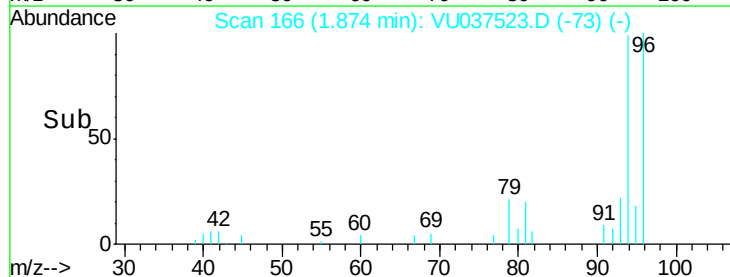
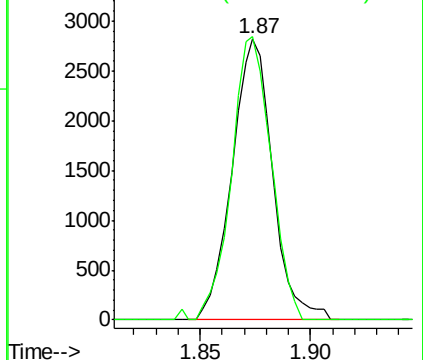
94 100

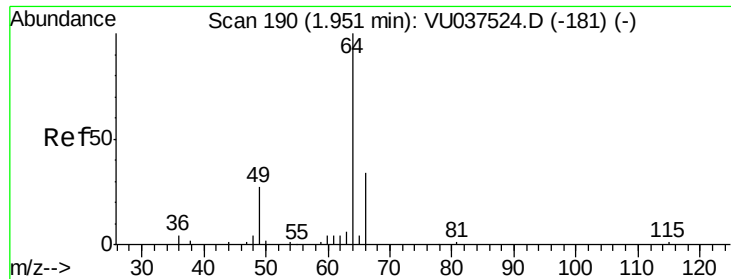
96 100.8 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

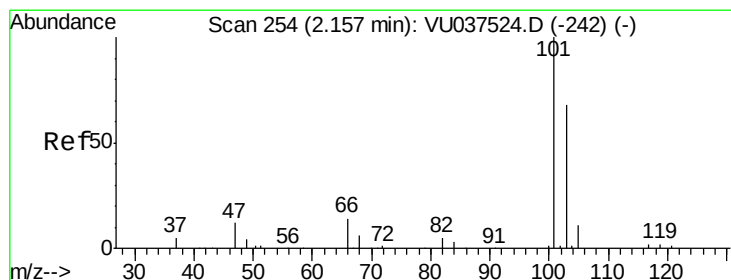
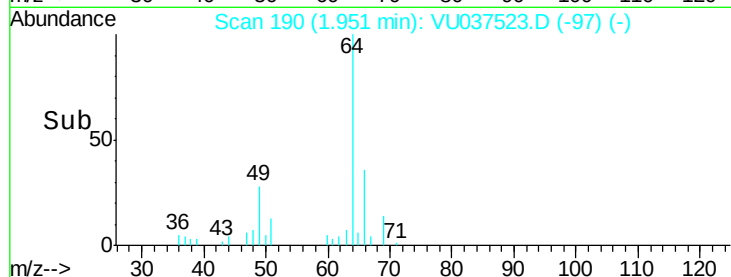
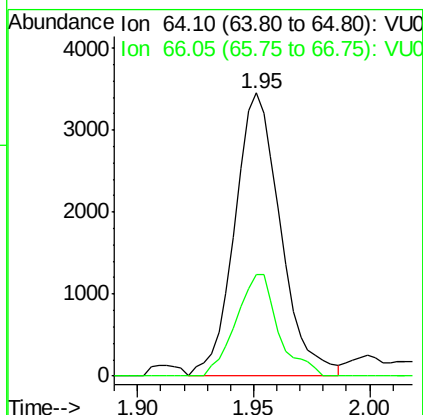
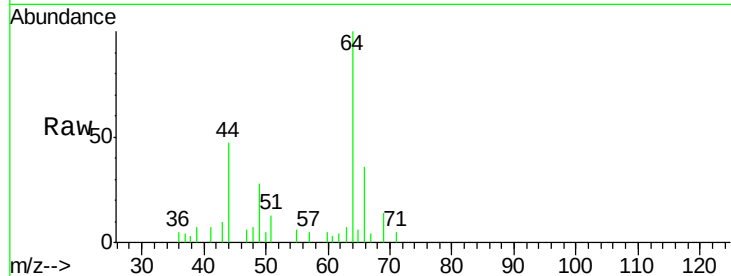




#8
Chloroethane
Concen: 1.17 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

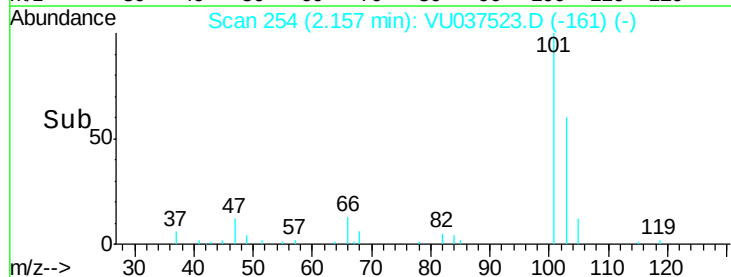
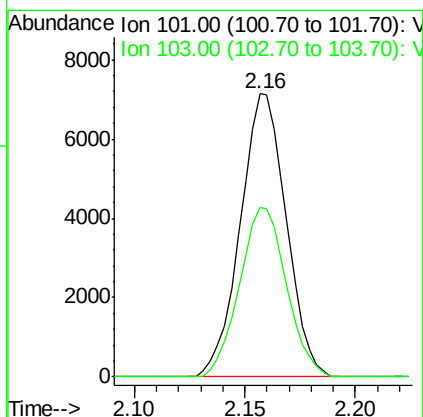
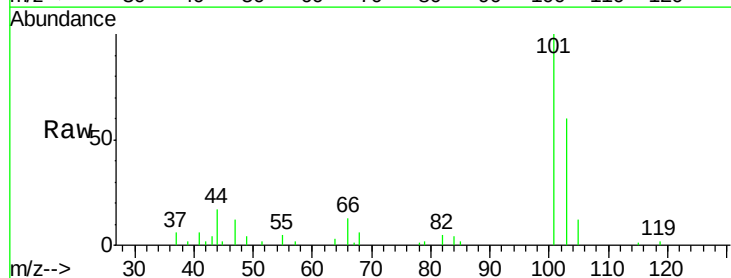
Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

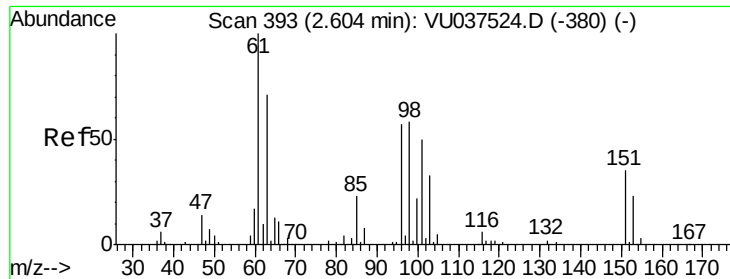
Tgt Ion: 64 Resp: 4746
Ion Ratio Lower Upper
64 100
66 36.0 24.1 44.7



#9
Trichlorofluoromethane
Concen: 1.04 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Tgt Ion: 101 Resp: 10303
Ion Ratio Lower Upper
101 100
103 60.9 53.2 79.8





#10

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

Concen: 0.91 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

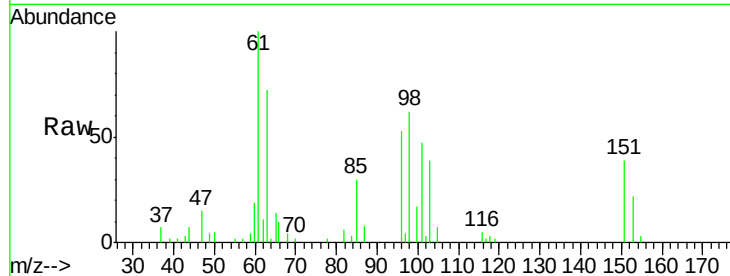
Tgt Ion:101 Resp: 5302

Ion Ratio Lower Upper

101 100

85 58.0 35.8 53.8#

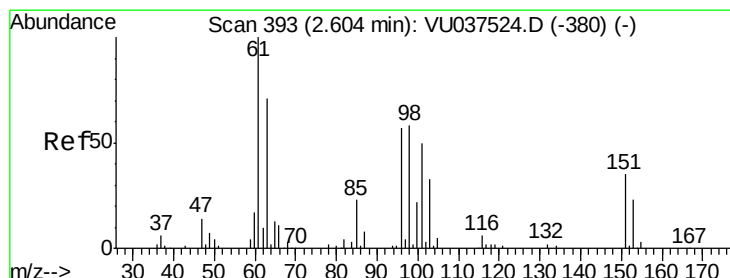
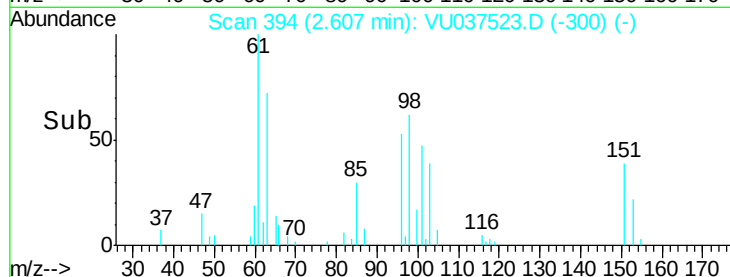
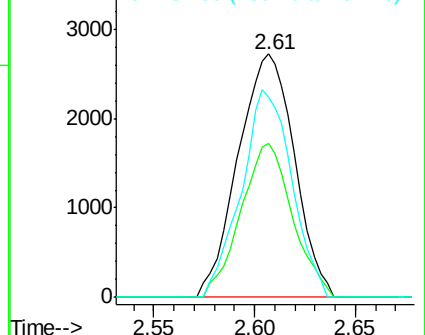
151 76.7 54.7 82.1



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: 0.94 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

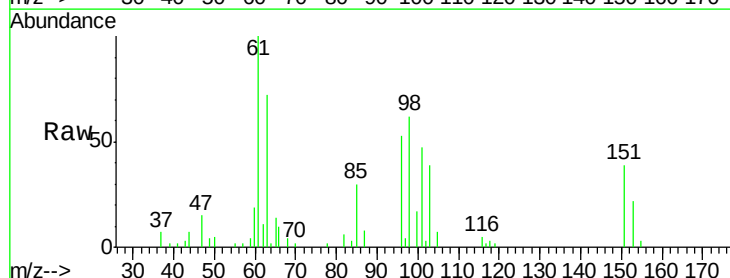
Tgt Ion: 96 Resp: 5463

Ion Ratio Lower Upper

96 100

61 189.7 123.4 229.2

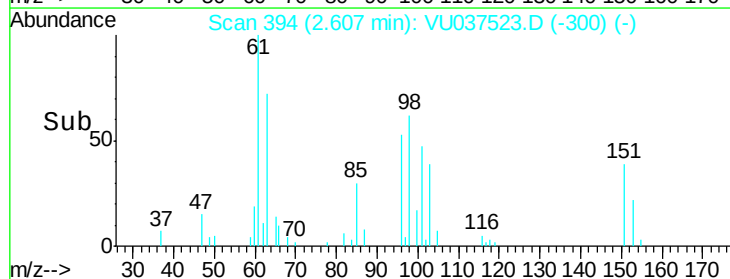
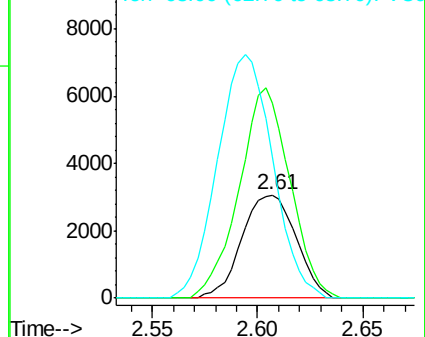
63 137.4 90.4 168.0

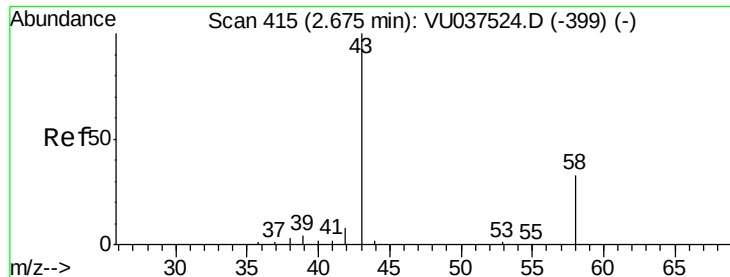


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.95 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

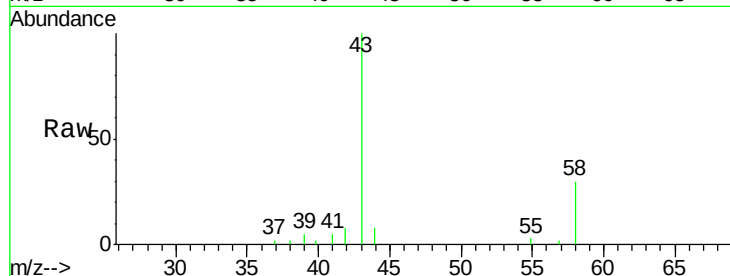
VSTD00105

Tgt Ion: 43 Resp: 10920

Ion Ratio Lower Upper

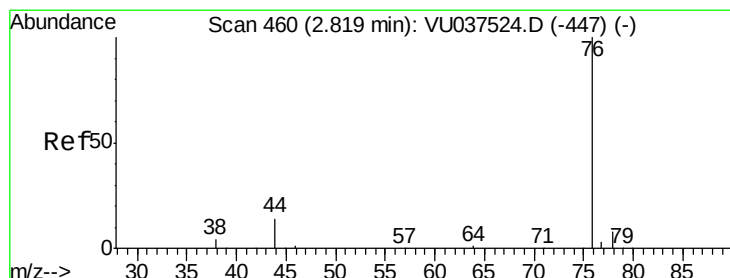
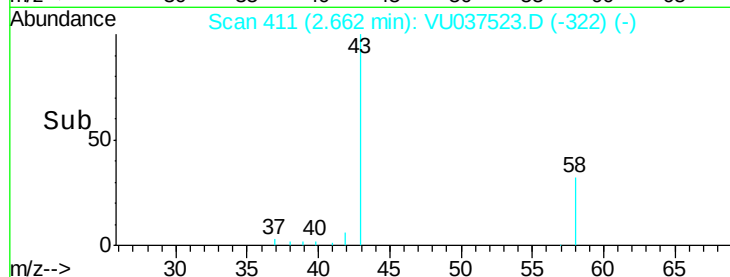
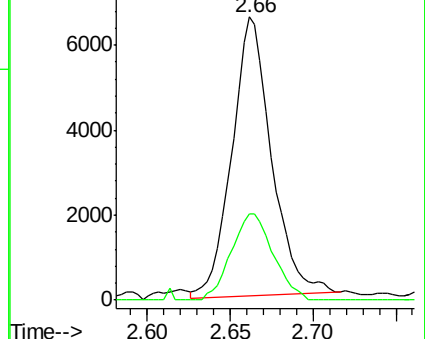
43 100

58 32.6 0.0 68.2



Abundance Ion 43.05 (42.75 to 43.75): VU037523.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU037523.D (-322) (-)



#14

Carbon disulfide

Concen: 0.96 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037523.D

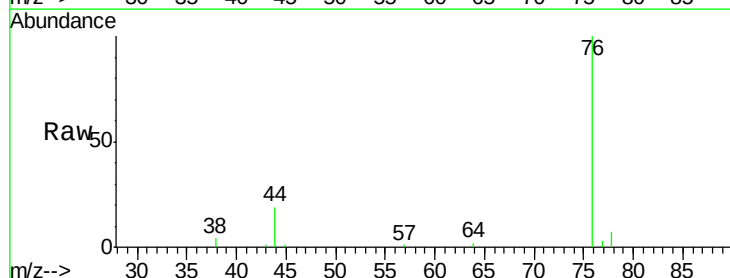
Acq: 01 Apr 2020 14:13

Tgt Ion: 76 Resp: 18581

Ion Ratio Lower Upper

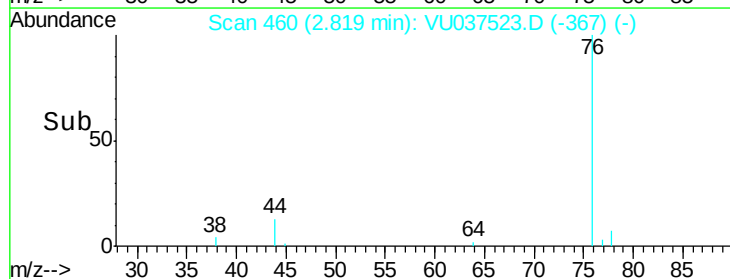
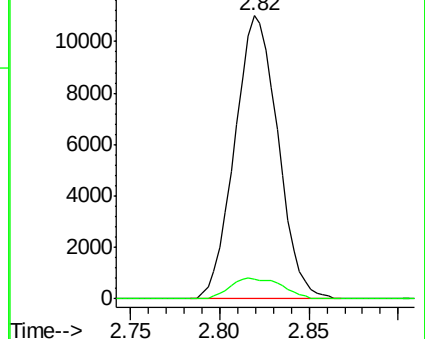
76 100

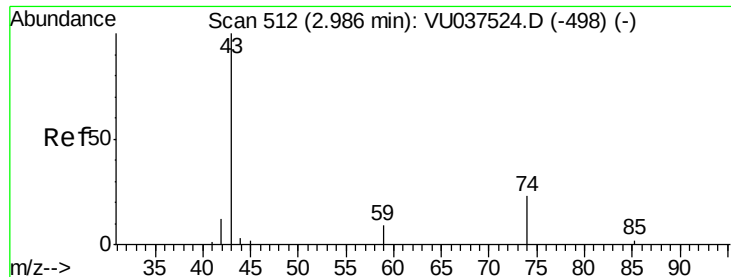
78 7.0 6.3 9.5



Abundance Ion 76.05 (75.75 to 76.75): VU037523.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037523.D (-367) (-)

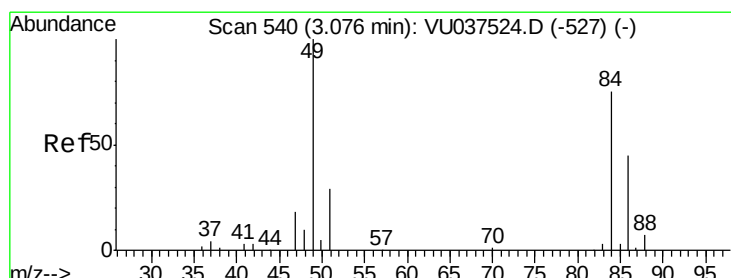
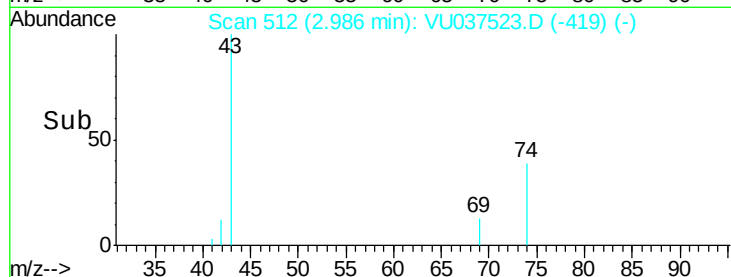
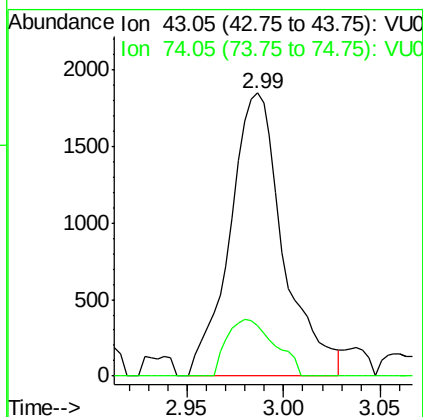
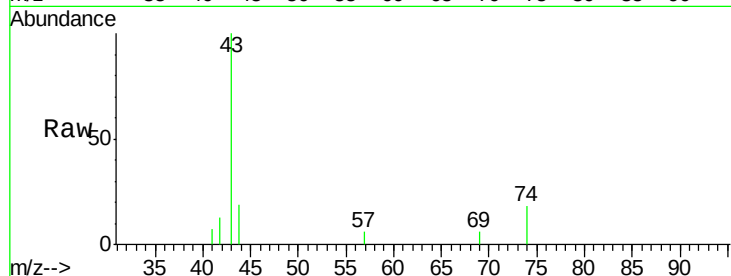




#15
Methyl Acetate
Concen: 1.17 ug/L
RT: 2.99 min Scan# 512
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

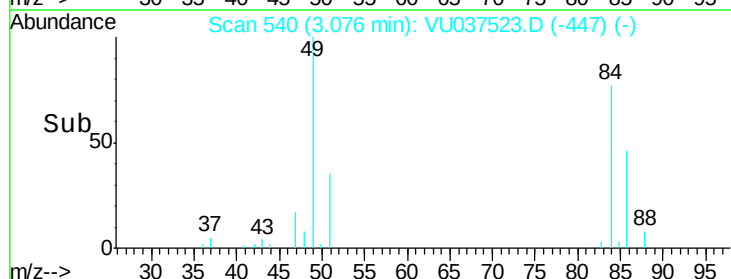
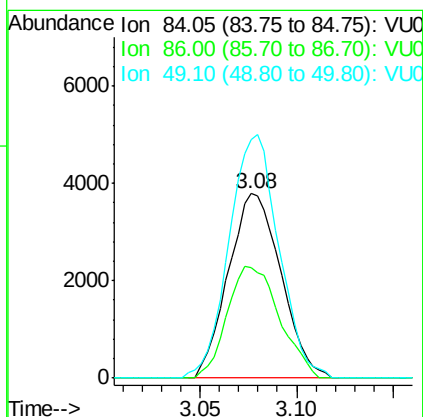
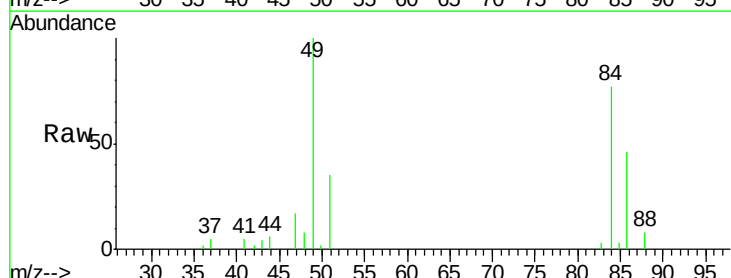
Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

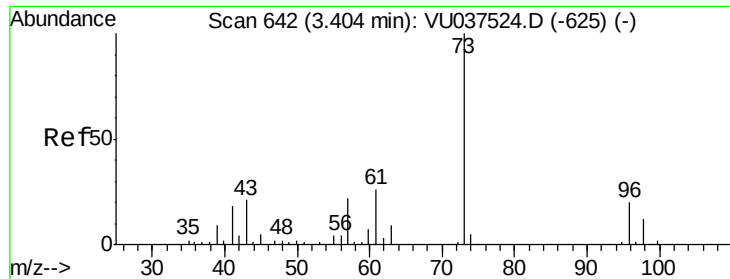
Tgt Ion: 43 Resp: 3561
Ion Ratio Lower Upper
43 100
74 17.9 16.8 25.2



#16
Methylene chloride
Concen: 1.10 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Tgt Ion: 84 Resp: 7170
Ion Ratio Lower Upper
84 100
86 59.7 41.6 77.3
49 132.2 97.0 180.2

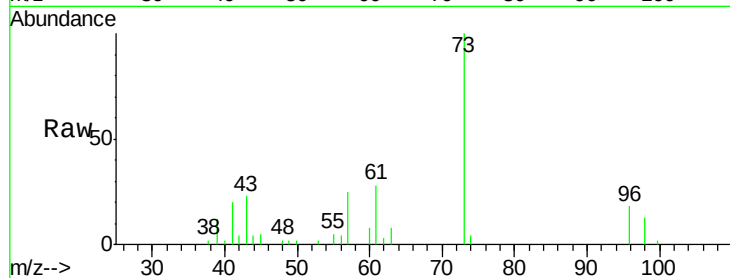




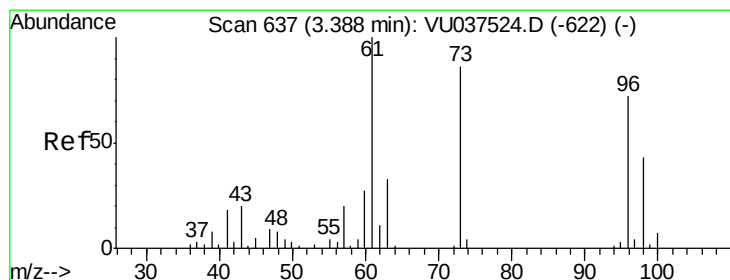
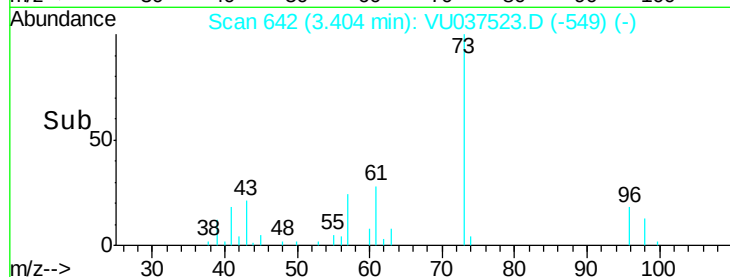
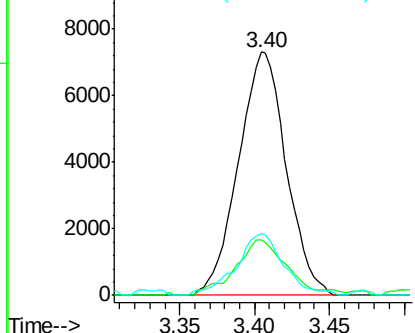
#17
Methyl tert-butyl Ether
Concen: 1.01 ug/L
RT: 3.40 min Scan# 642
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

Tgt Ion: 73 Resp: 16254
Ion Ratio Lower Upper
73 100
43 23.7 18.0 27.0
57 25.4 19.0 28.6

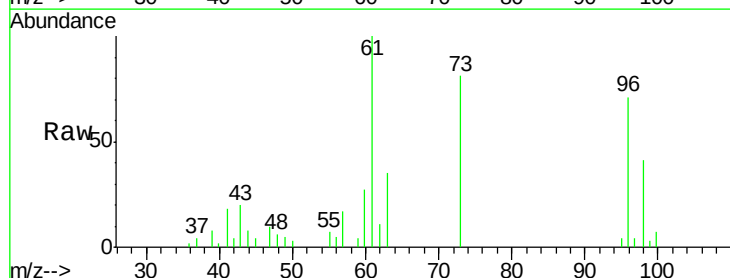


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

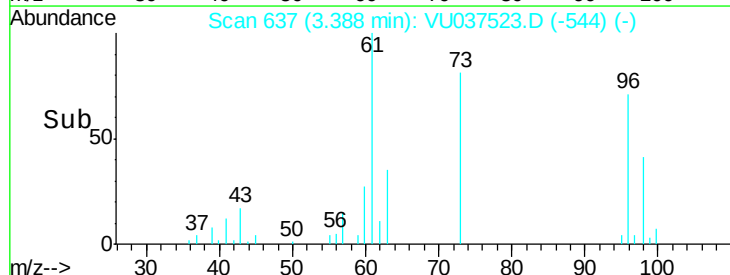
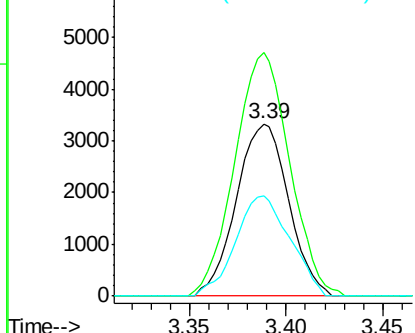


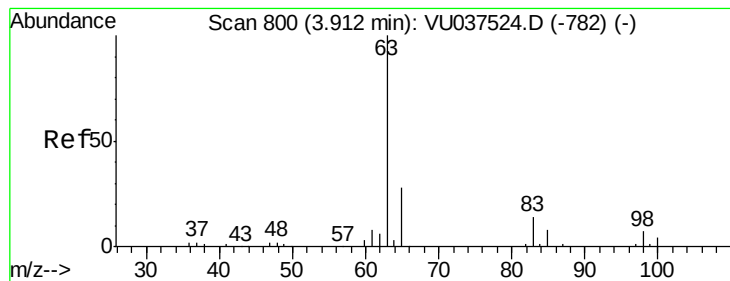
#18
trans-1,2-Dichloroethene
Concen: 1.03 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Tgt Ion: 96 Resp: 6257
Ion Ratio Lower Upper
96 100
61 141.1 97.4 181.0
98 58.4 42.4 78.6



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





#19

1,1-Dichloroethane

Concen: 1.02 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

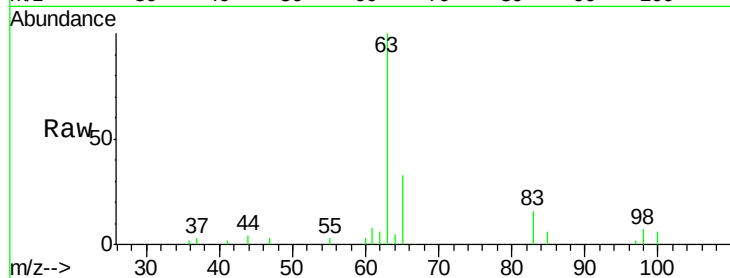
Tgt Ion: 63 Resp: 11746

Ion Ratio Lower Upper

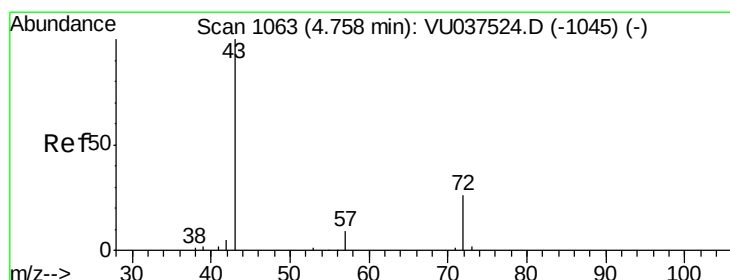
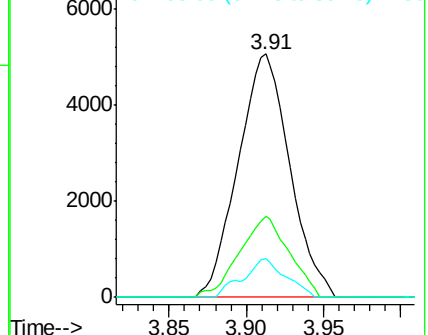
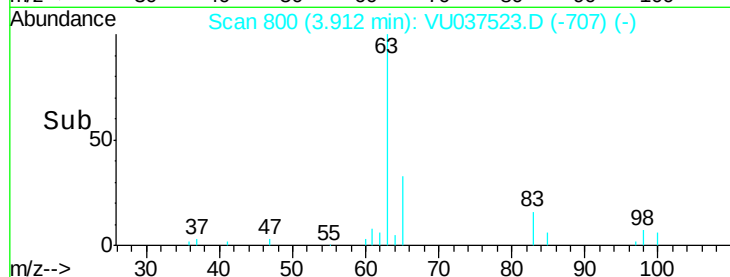
63 100

65 33.2 19.9 36.9

83 16.1 10.1 18.7



Abundance Ion 63.10 (62.80 to 63.80): VU037523.D (-707) (-)



#21

2-Butanone

Concen: 9.67 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. -0.01 min

Lab File: VU037523.D

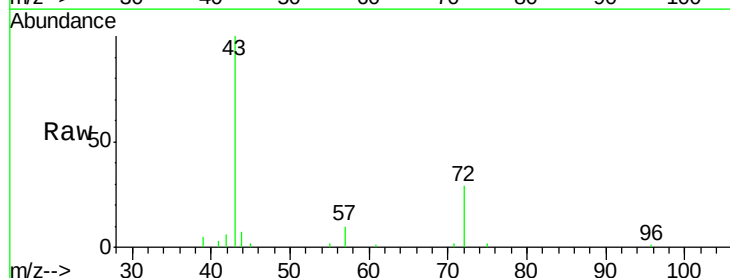
Acq: 01 Apr 2020 14:13

Tgt Ion: 43 Resp: 18775

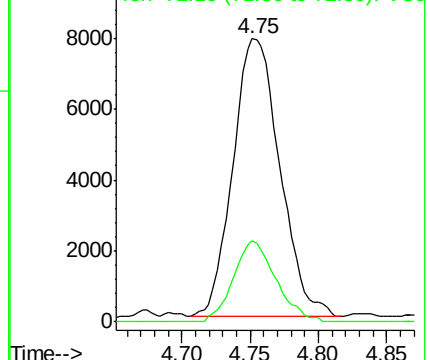
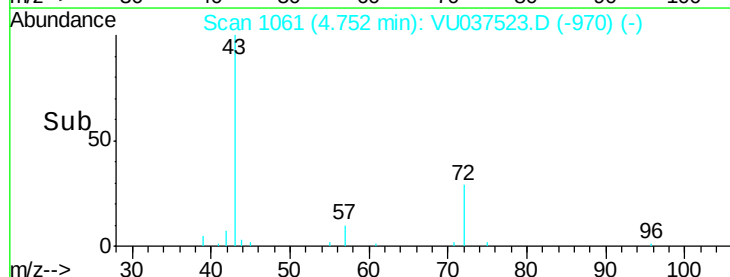
Ion Ratio Lower Upper

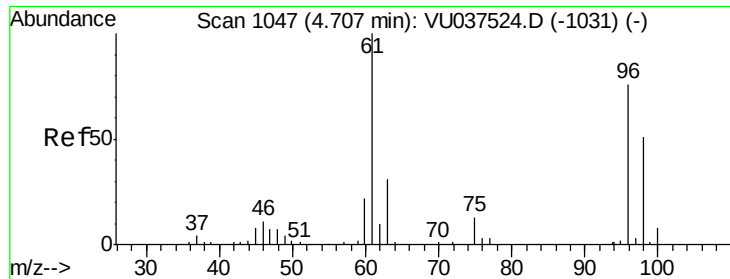
43 100

72 26.3 13.1 39.1



Abundance Ion 43.05 (42.75 to 43.75): VU037523.D (-970) (-)

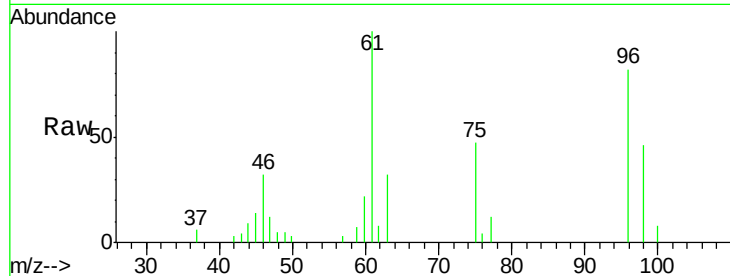




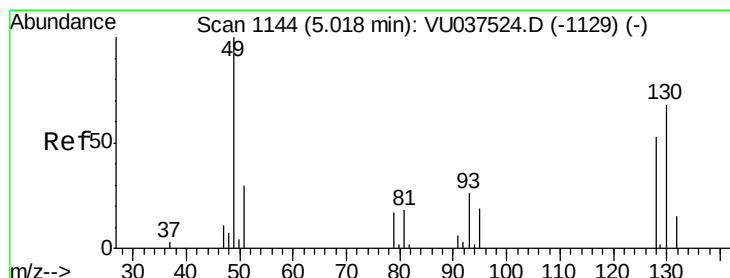
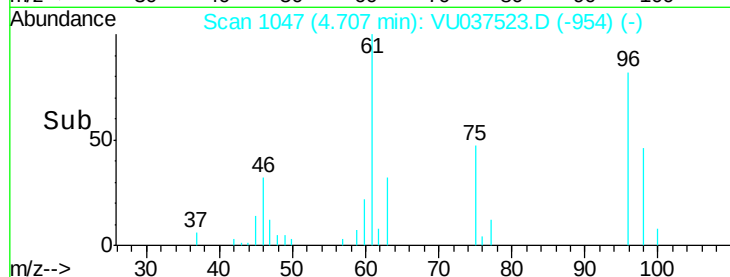
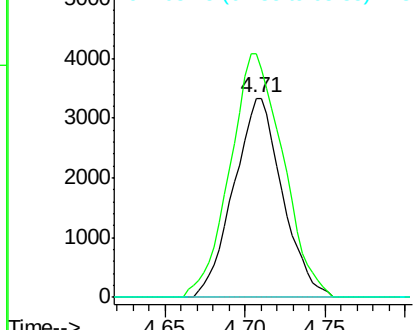
#22
 cis-1,2-Dichloroethene
 Concen: 1.02 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Tgt Ion: 96 Resp: 6943
 Ion Ratio Lower Upper
 96 100
 61 122.1 92.0 170.9
 68 0.0 0.0 0.0

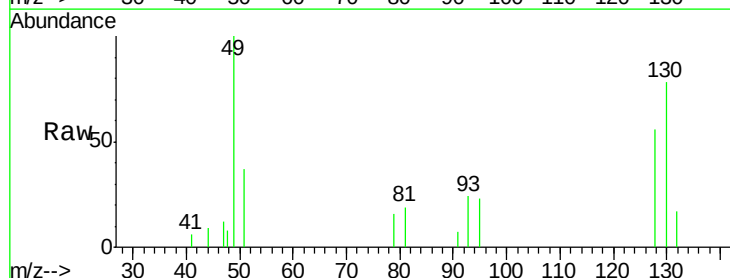


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

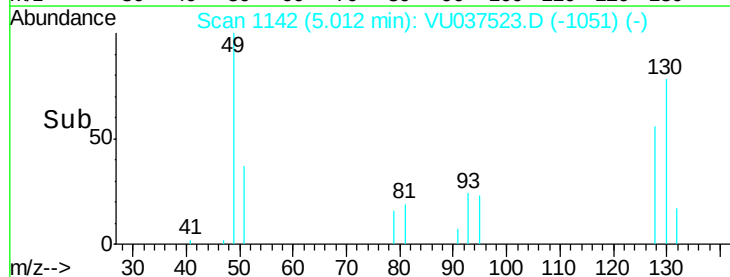
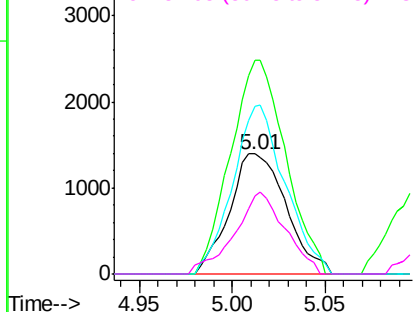


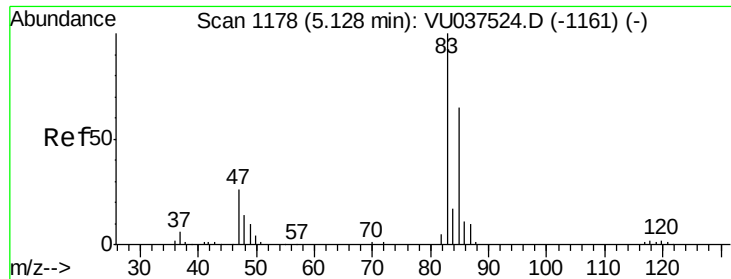
#23
 Bromochloromethane
 Concen: 1.07 ug/L
 RT: 5.01 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Tgt Ion: 128 Resp: 2985
 Ion Ratio Lower Upper
 128 100
 49 177.7 133.7 248.3
 130 139.0 90.6 168.2
 51 65.0 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

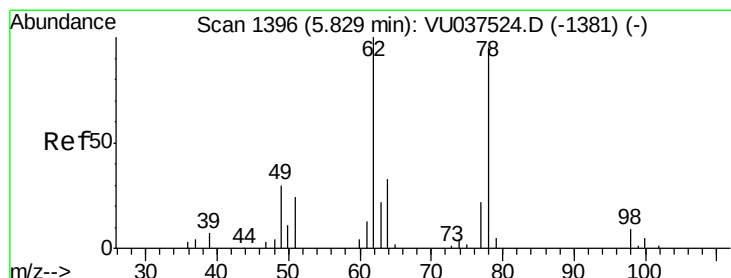
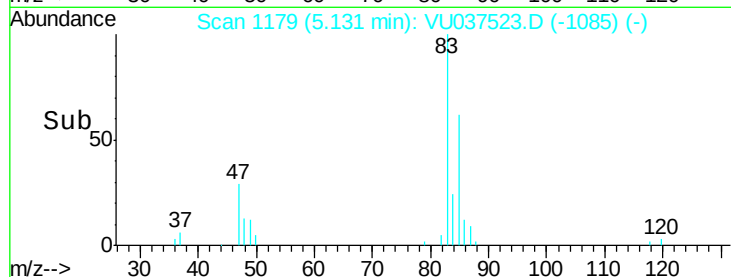
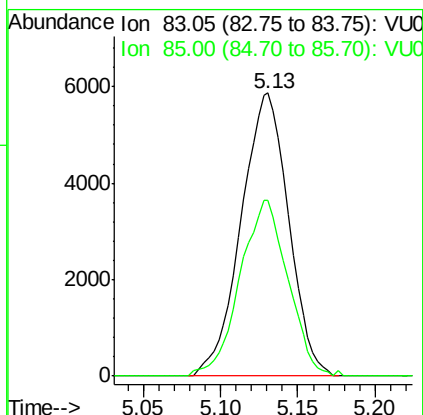
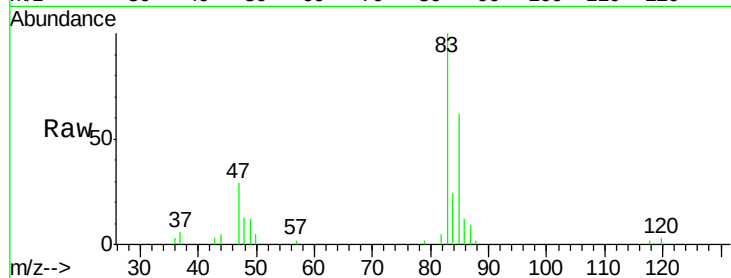




#25
Chloroform
Concen: 1.07 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

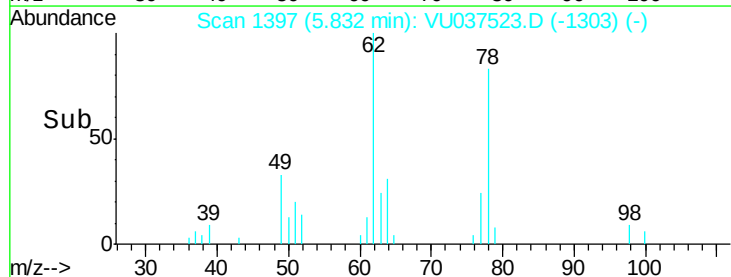
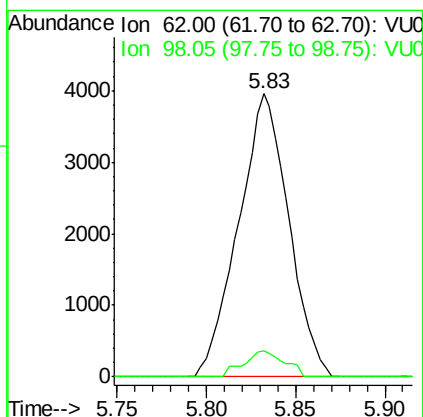
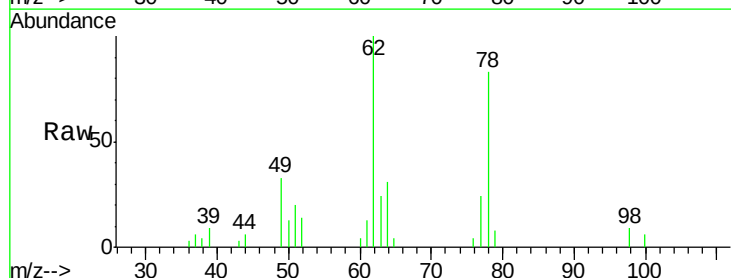
Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

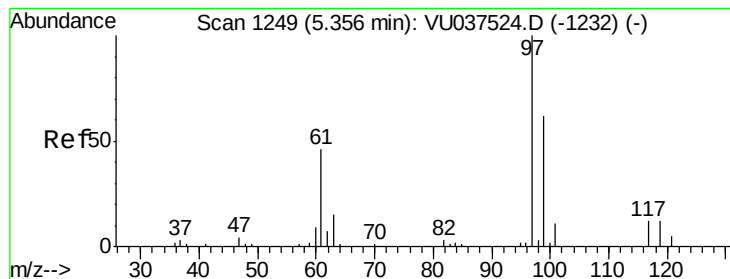
Tgt Ion: 83 Resp: 12540
Ion Ratio Lower Upper
83 100
85 62.1 45.8 85.2



#27
1,2-Dichloroethane
Concen: 0.99 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Tgt Ion: 62 Resp: 7765
Ion Ratio Lower Upper
62 100
98 9.3 7.3 10.9





#29

1,1,1-Trichloroethane

Concen: 1.02 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

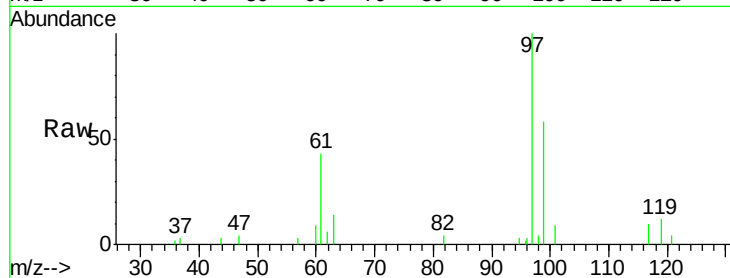
Tgt Ion: 97 Resp: 10433

Ion Ratio Lower Upper

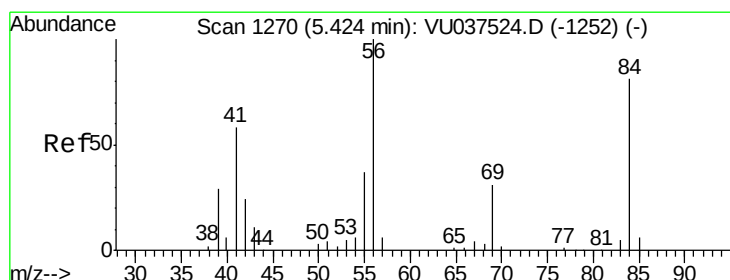
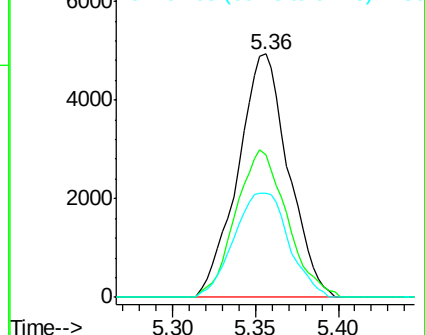
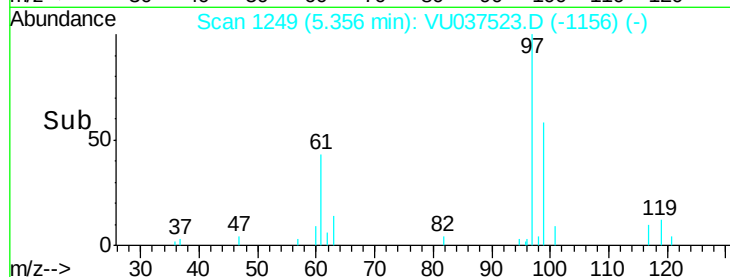
97 100

99 61.5 50.6 76.0

61 46.5 35.2 52.8



Abundance Ion 96.95 (96.65 to 97.65): VU037523.D (-1156) (-)



#30

Cyclohexane

Concen: 1.03 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

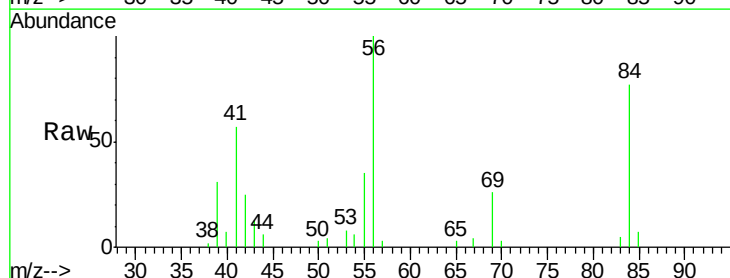
Tgt Ion: 56 Resp: 11368

Ion Ratio Lower Upper

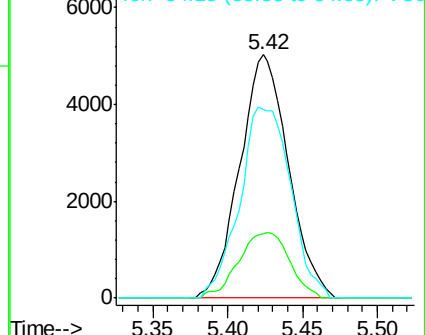
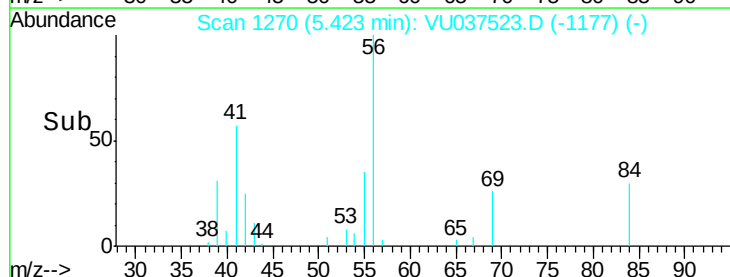
56 100

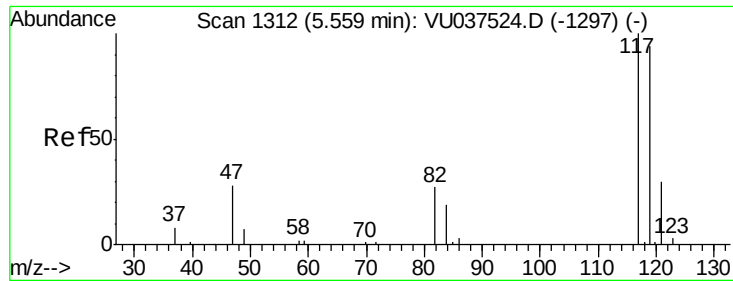
69 28.2 23.9 35.9

84 82.2 65.6 98.4



Abundance Ion 56.10 (55.80 to 56.80): VU037523.D (-1177) (-)





#31

Carbon tetrachloride

Concen: 1.00 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

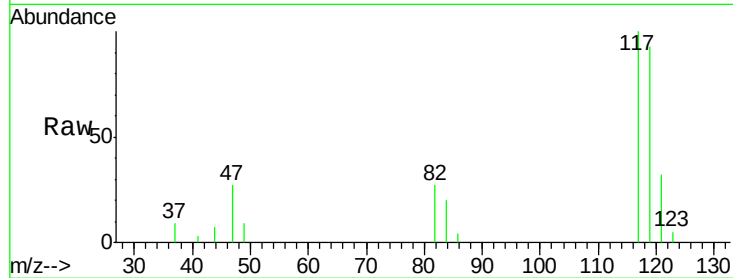
VSTD00105

Tgt Ion:117 Resp: 8459

Ion Ratio Lower Upper

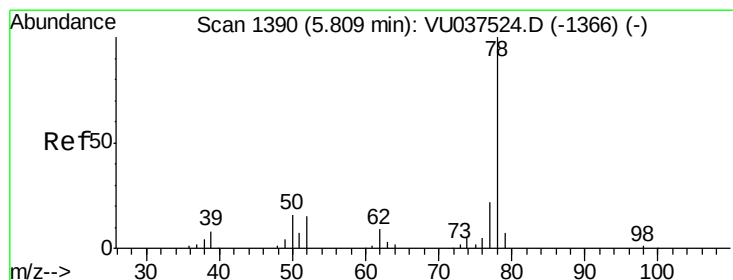
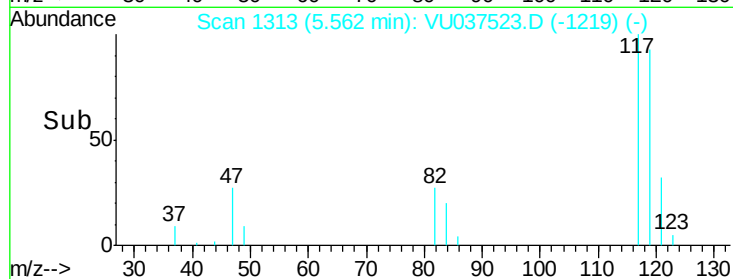
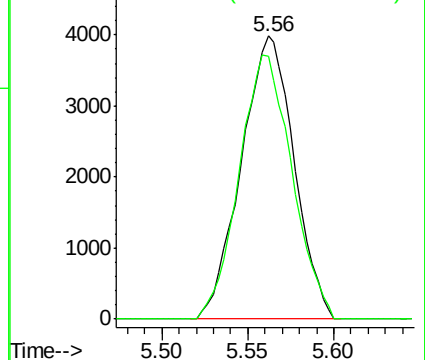
117 100

119 93.6 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: 1.03 ug/L

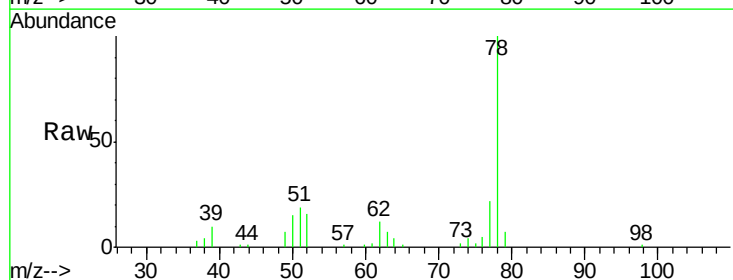
RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

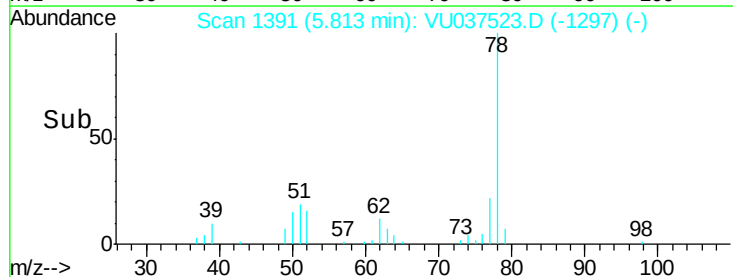
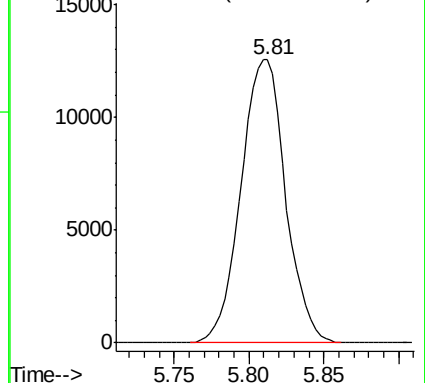
Lab File: VU037523.D

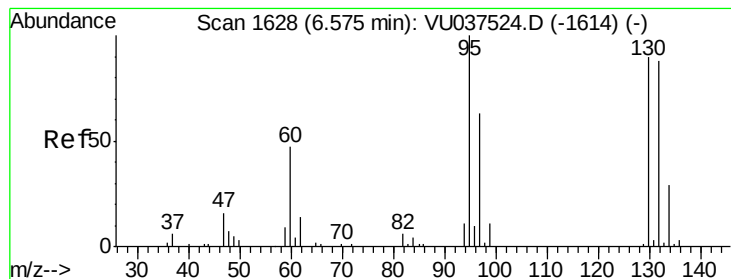
Acq: 01 Apr 2020 14:13

Tgt Ion: 78 Resp: 26059



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 1.01 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

Tgt Ion: 95 Resp: 6745

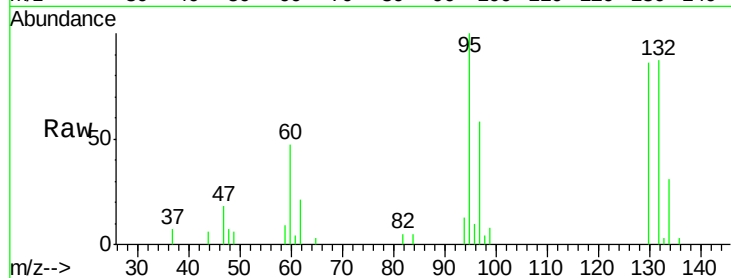
Ion Ratio Lower Upper

95 100

97 58.3 44.0 81.8

132 87.0 61.9 114.9

130 86.1 62.7 116.5

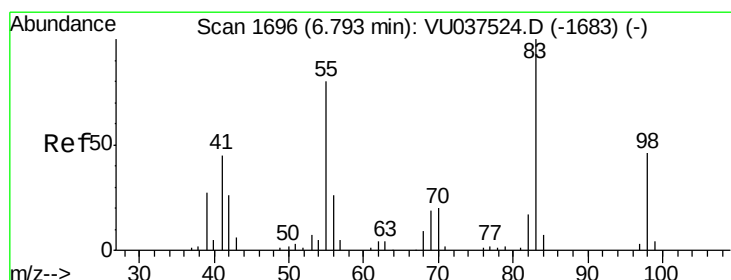
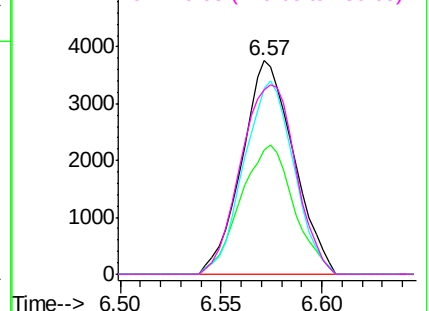
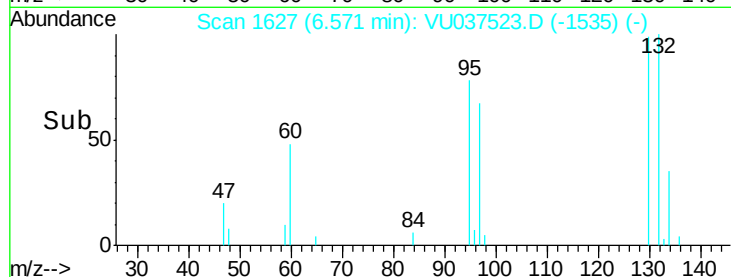


Abundance Ion 95.00 (94.70 to 95.70): VU037523.D (-1535) (-)

Ion 96.95 (96.65 to 97.65): VU037523.D (-1535) (-)

Ion 131.95 (131.65 to 132.65): VU037523.D (-1535) (-)

Ion 129.95 (129.65 to 130.65): VU037523.D (-1535) (-)



#35

Methylcyclohexane

Concen: 1.04 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

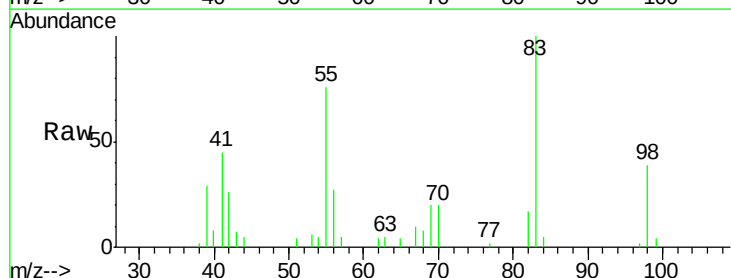
Tgt Ion: 83 Resp: 11456

Ion Ratio Lower Upper

83 100

55 78.7 63.0 94.6

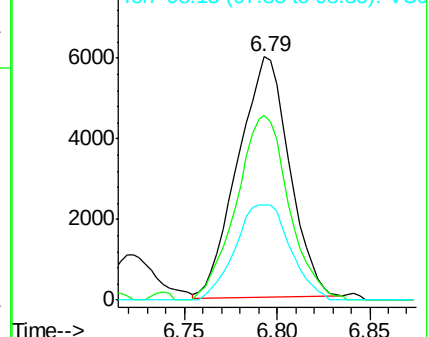
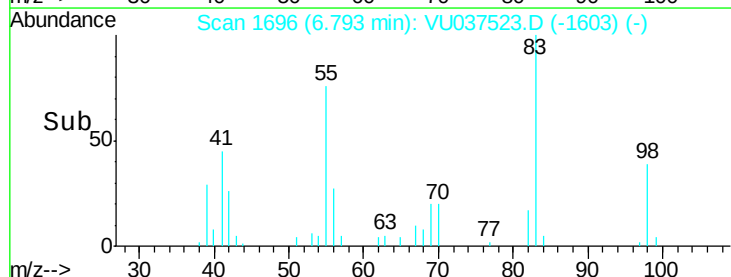
98 42.6 35.3 52.9

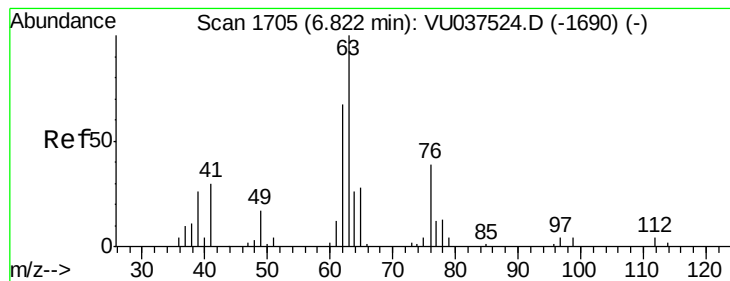


Abundance Ion 83.15 (82.85 to 83.85): VU037523.D (-1603) (-)

Ion 55.10 (54.80 to 55.80): VU037523.D (-1603) (-)

Ion 98.15 (97.85 to 98.85): VU037523.D (-1603) (-)





#37

1,2-Dichloropropane

Concen: 1.04 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

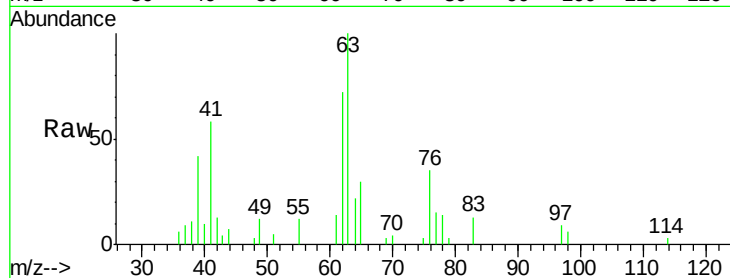
VSTD00105

Tgt Ion: 63 Resp: 6980

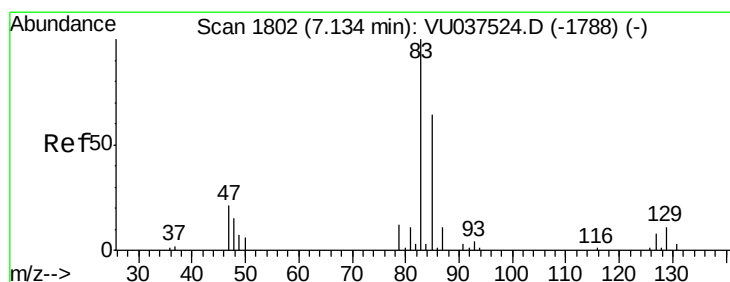
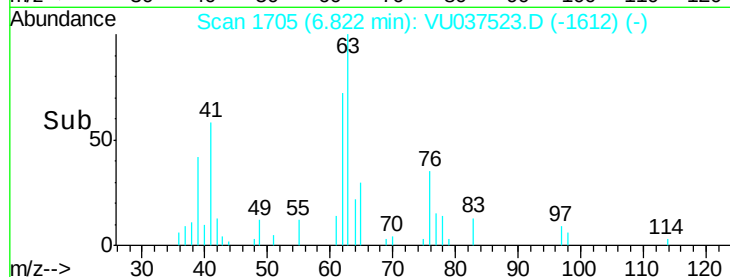
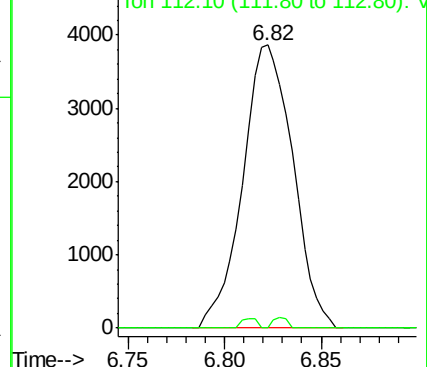
Ion Ratio Lower Upper

63 100

112 1.1 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VU037523.D (-1612) (-)



#38

Bromodichloromethane

Concen: 1.05 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

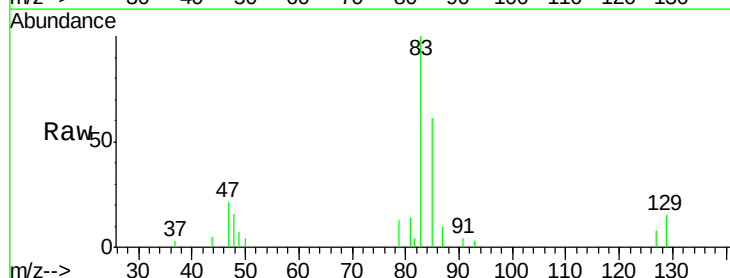
Tgt Ion: 83 Resp: 9196

Ion Ratio Lower Upper

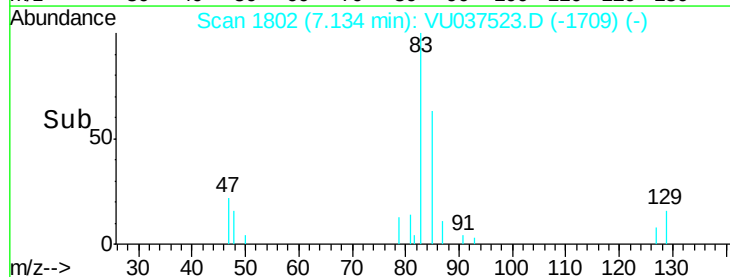
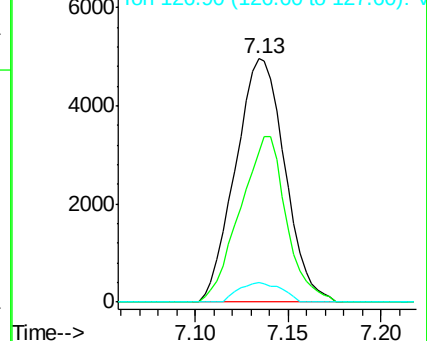
83 100

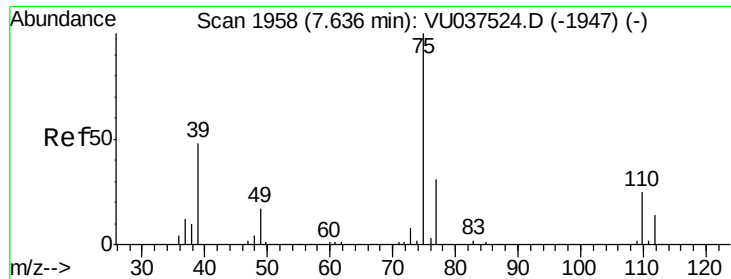
85 61.5 44.4 82.5

127 8.0 6.5 9.7



Abundance Ion 82.95 (82.65 to 83.65): VU037523.D (-1709) (-)

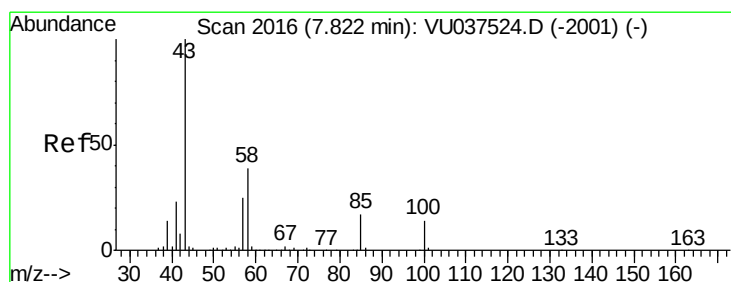
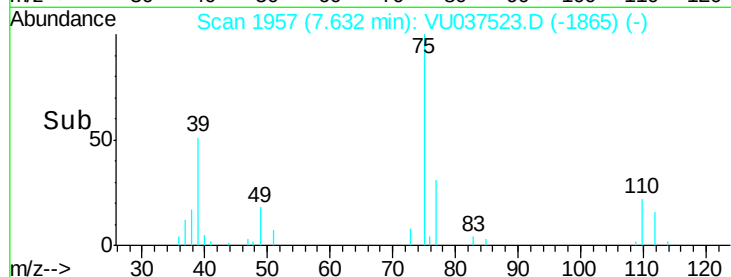
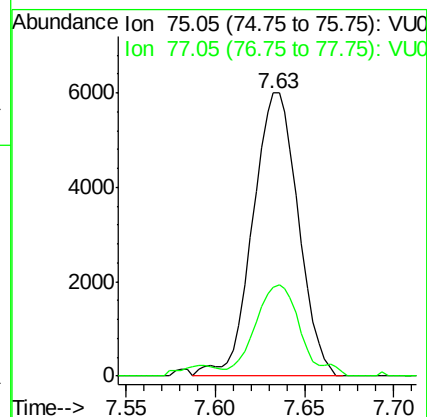
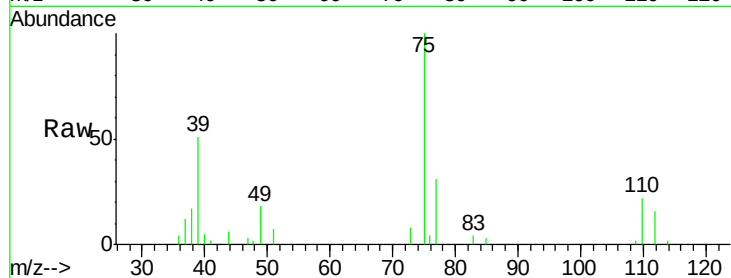




#39
 cis-1,3-Dichloropropene
 Concen: 1.03 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

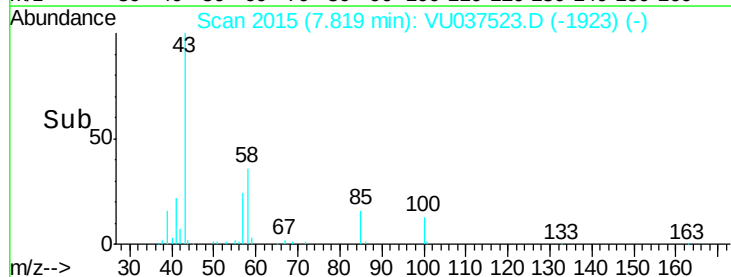
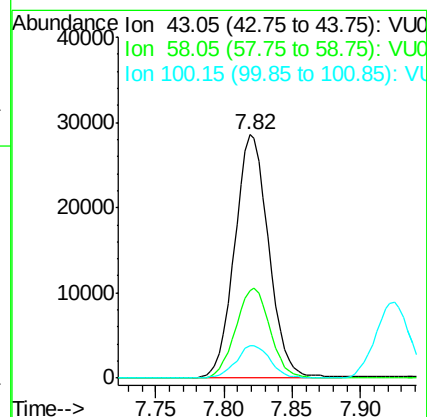
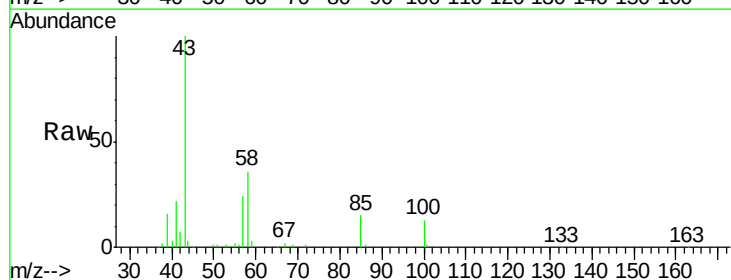
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

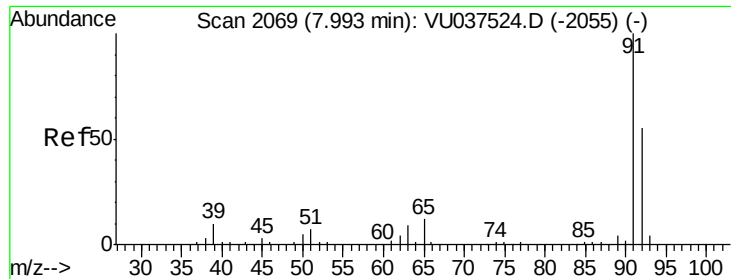
Tgt Ion: 75 Resp: 10671
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 10.04 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Tgt Ion: 43 Resp: 49486
 Ion Ratio Lower Upper
 43 100
 58 37.3 31.7 47.5
 100 13.4 11.0 16.6





#42

Toluene

Concen: 1.03 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

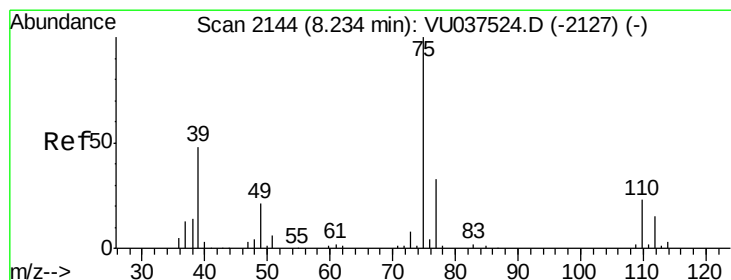
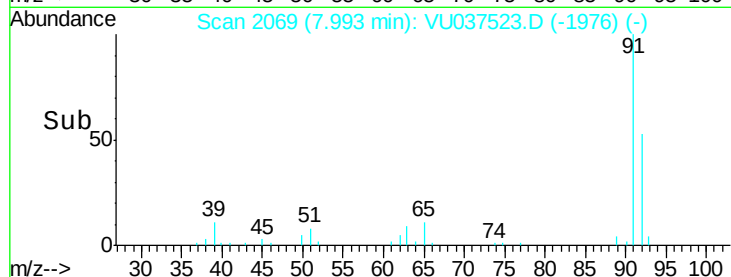
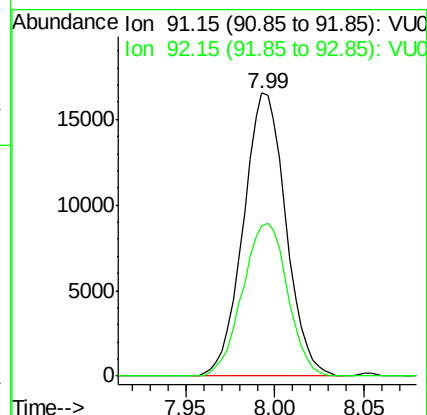
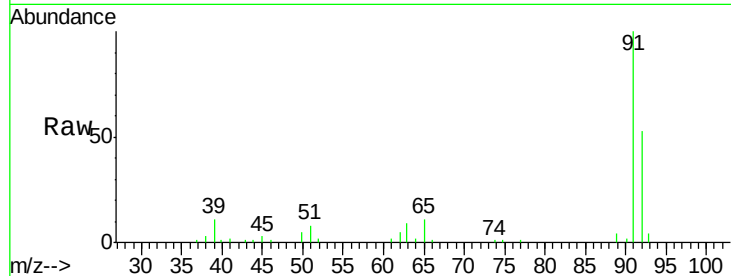
VSTD00105

Tgt Ion: 91 Resp: 27504

Ion Ratio Lower Upper

91 100

92 53.2 38.6 71.8



#44

trans-1,3-Dichloropropene

Concen: 0.97 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037523.D

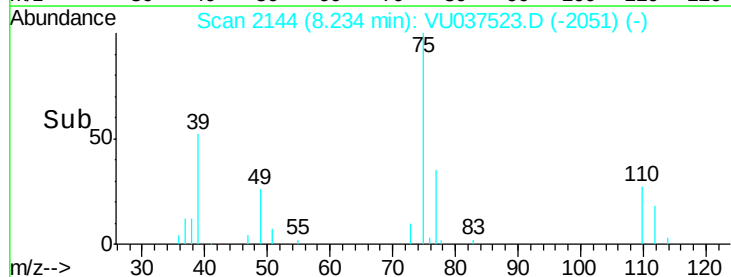
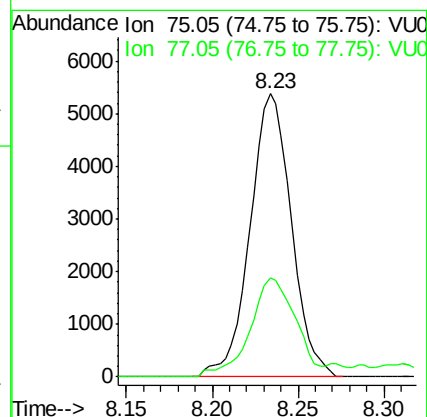
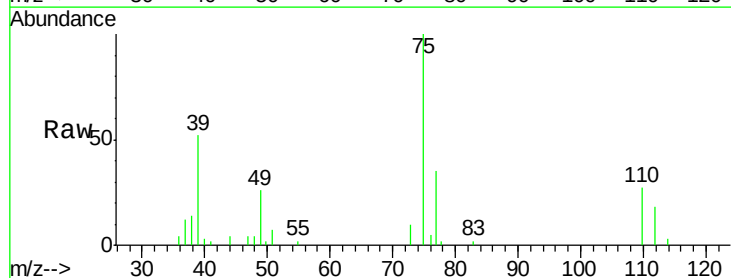
Acq: 01 Apr 2020 14:13

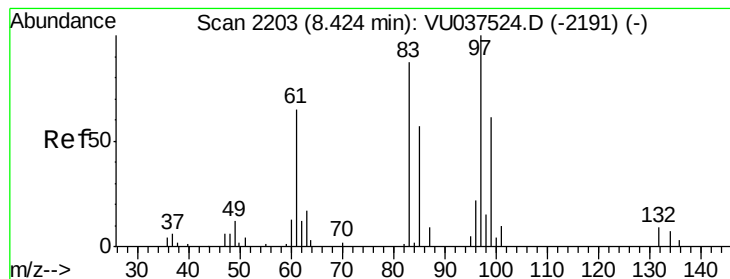
Tgt Ion: 75 Resp: 8963

Ion Ratio Lower Upper

75 100

77 35.0 22.9 42.5





#45

1,1,2-Trichloroethane

Concen: 1.01 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

Tgt Ion: 97 Resp: 4821

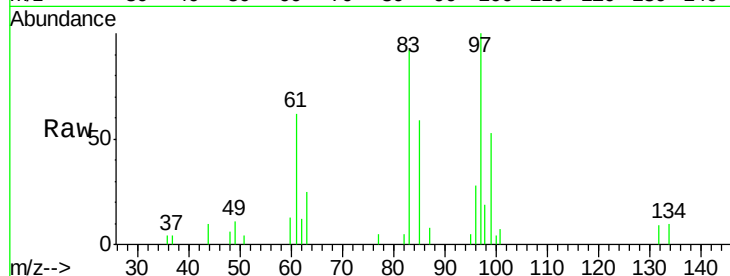
Ion Ratio Lower Upper

97 100

99 52.9 42.8 79.4

83 91.7 61.0 113.4

85 58.6 39.8 73.8

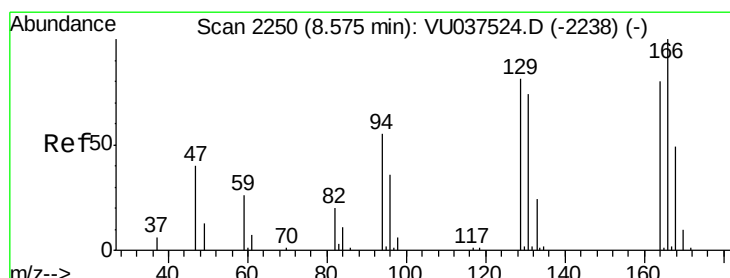
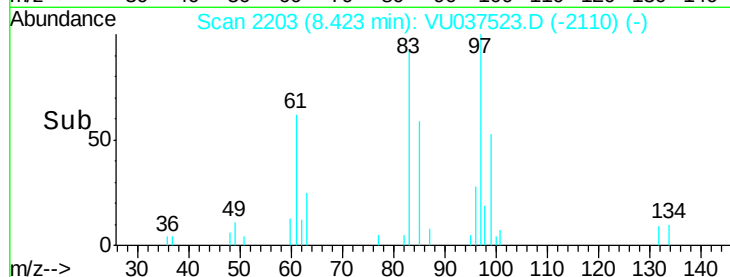
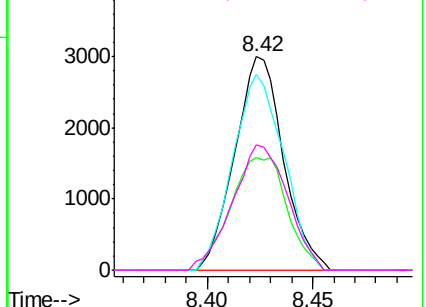


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 0.98 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Tgt Ion: 164 Resp: 4360

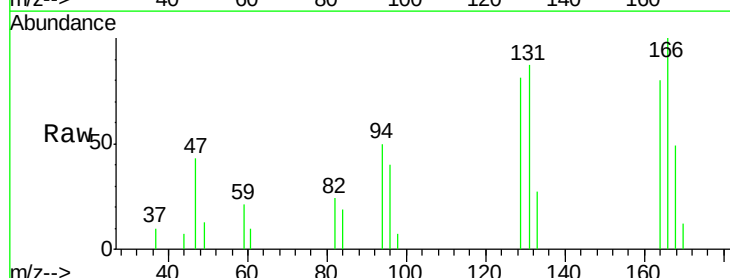
Ion Ratio Lower Upper

164 100

129 101.3 70.4 130.8

131 108.0 64.4 119.6

166 124.8 87.1 161.7

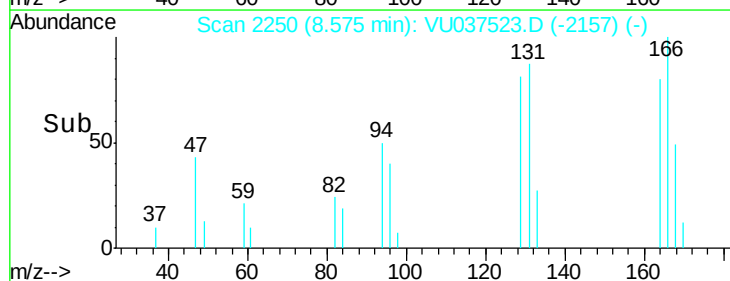
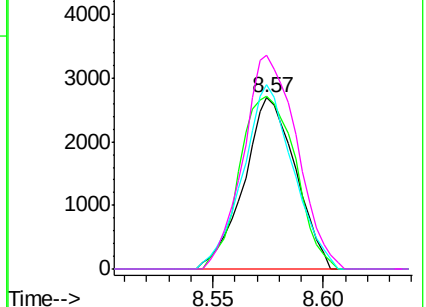


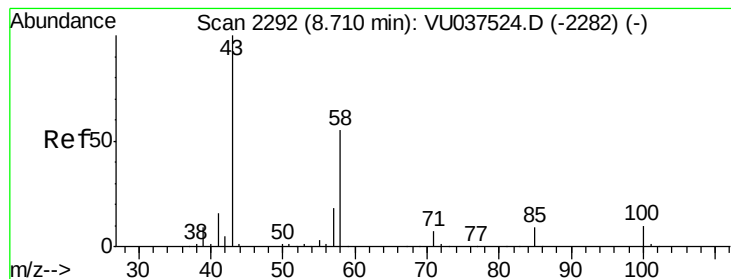
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 10.14 ug/L

RT: 8.71 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

Tgt Ion: 43 Resp: 36063

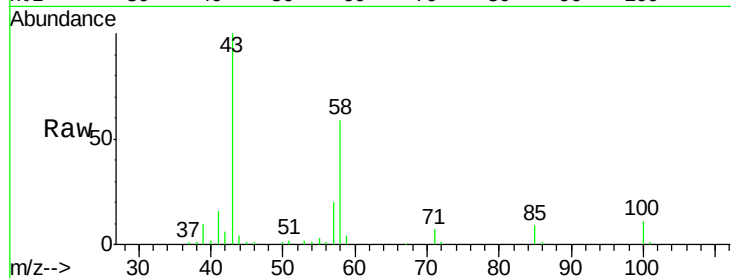
Ion Ratio Lower Upper

43 100

58 54.6 45.0 67.6

57 19.1 14.9 22.3

100 10.6 8.4 12.6

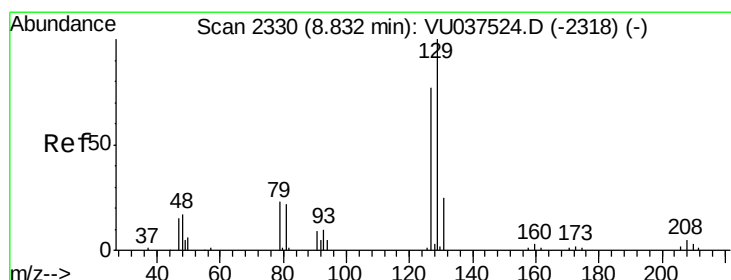
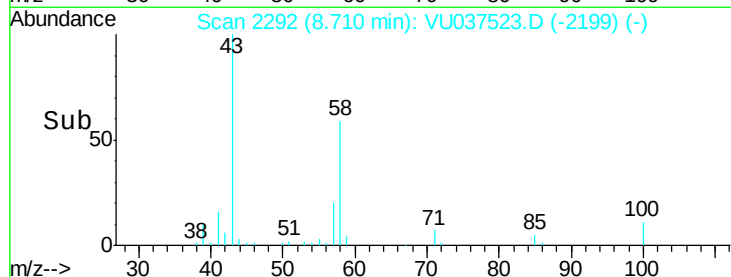
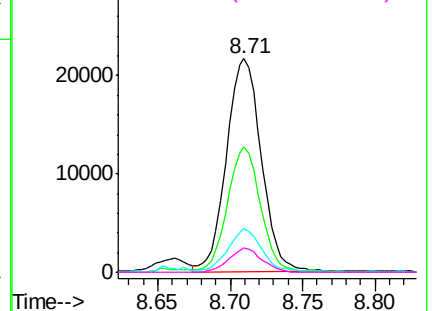


Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 1.04 ug/L

RT: 8.83 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU037523.D

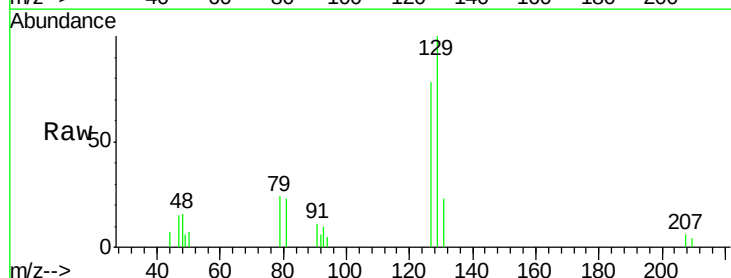
Acq: 01 Apr 2020 14:13

Tgt Ion: 129 Resp: 5999

Ion Ratio Lower Upper

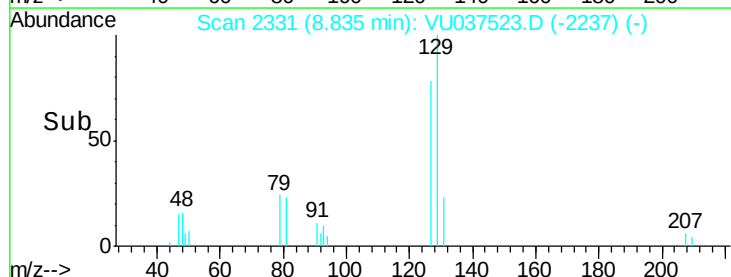
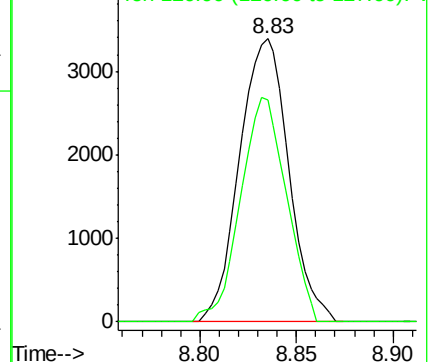
129 100

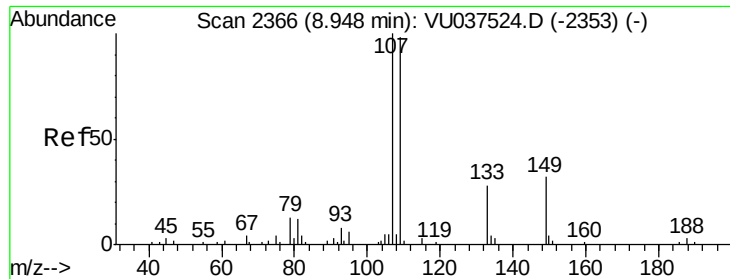
127 78.3 53.6 99.6



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

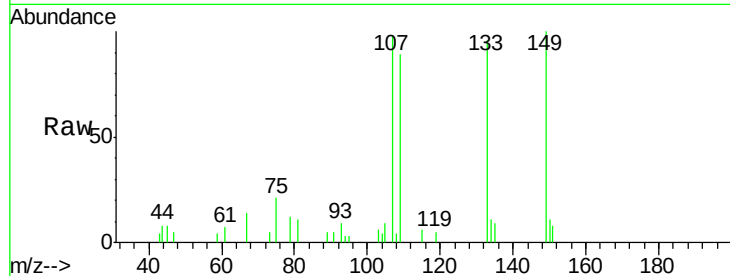




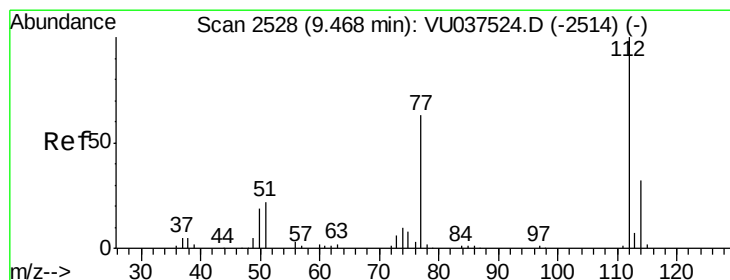
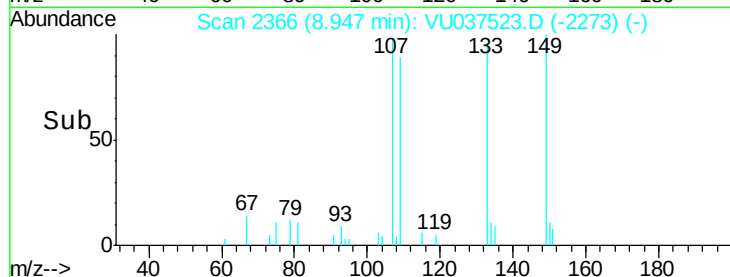
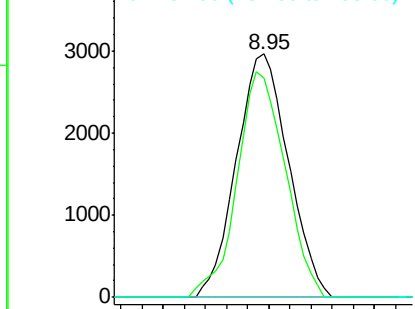
#50
1,2-Dibromoethane
Concen: 1.08 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

Tgt Ion:107 Resp: 5075
Ion Ratio Lower Upper
107 100
109 90.2 68.9 127.9
188 0.0 2.2 3.4#

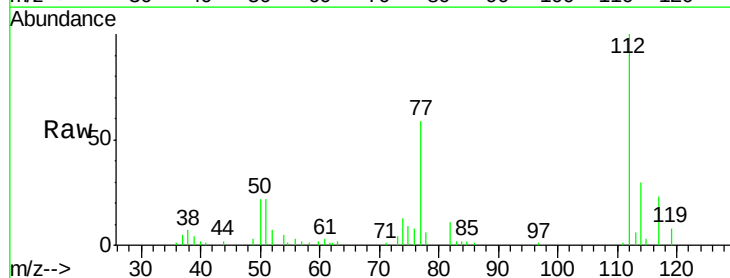


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

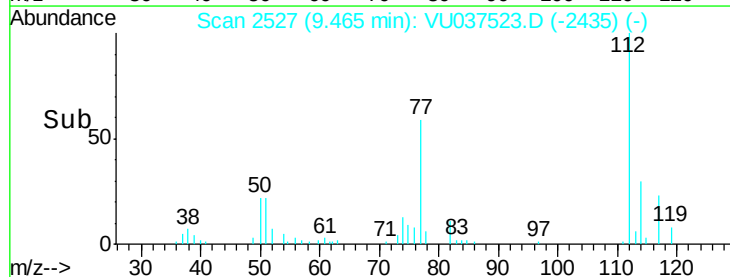
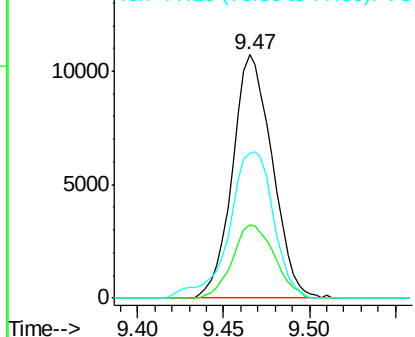


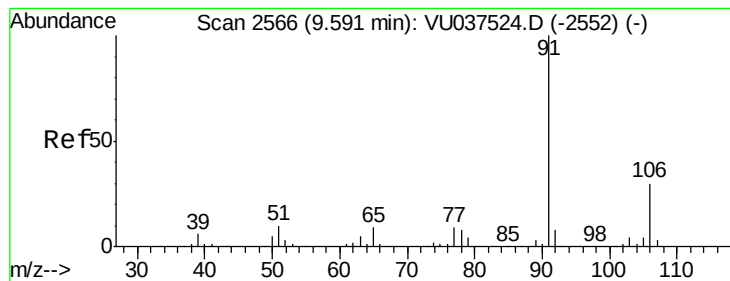
#51
Chlorobenzene
Concen: 1.04 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Tgt Ion:112 Resp: 17261
Ion Ratio Lower Upper
112 100
114 30.4 22.4 41.6
77 59.4 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: 1.00 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

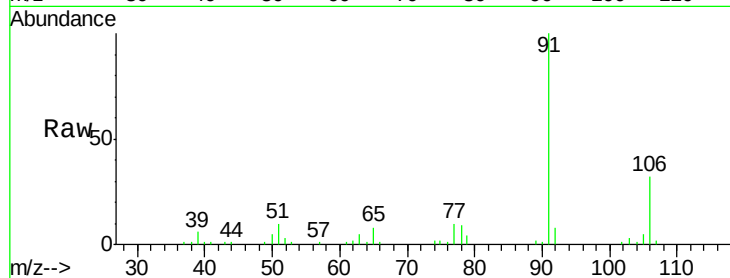
VSTD00105

Tgt Ion: 91 Resp: 30963

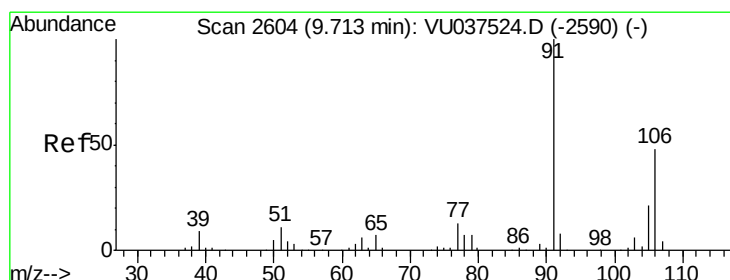
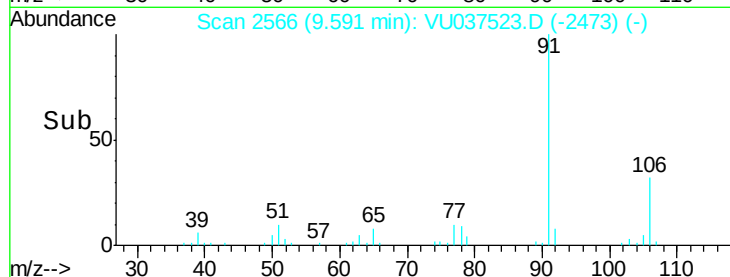
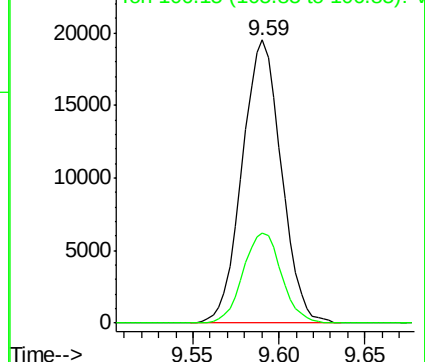
Ion Ratio Lower Upper

91 100

106 32.0 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VU037523.D (-2552) (-)



#53

m,p-Xylene

Concen: 1.02 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037523.D

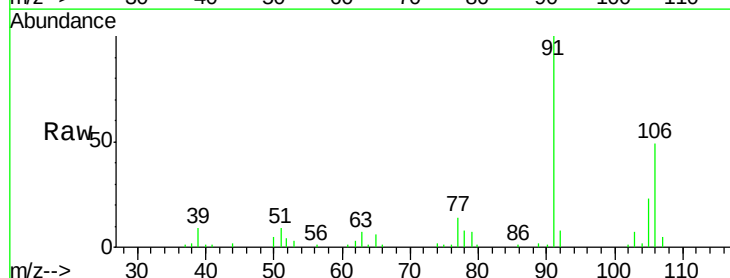
Acq: 01 Apr 2020 14:13

Tgt Ion: 106 Resp: 11720

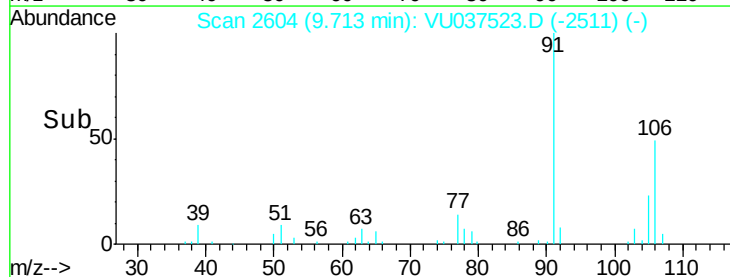
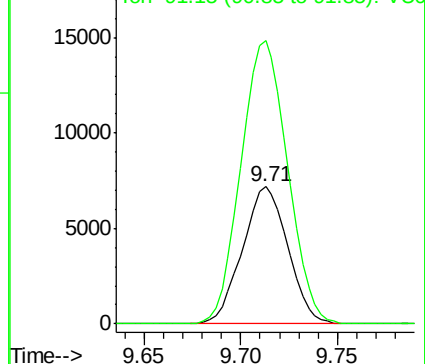
Ion Ratio Lower Upper

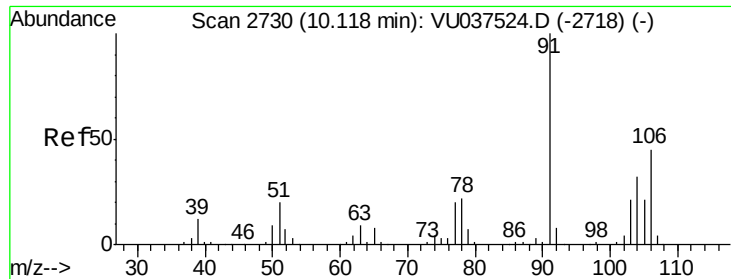
106 100

91 206.0 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): VU037523.D (-2590) (-)

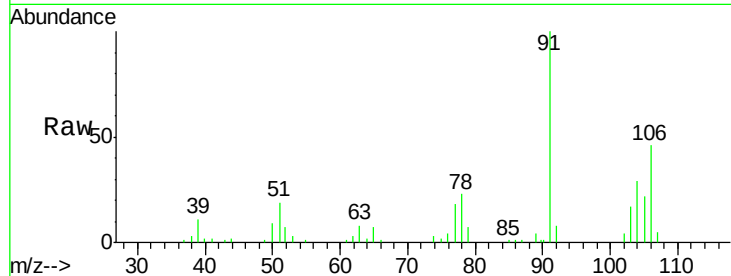




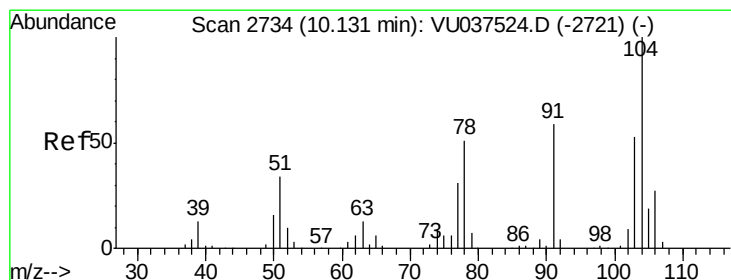
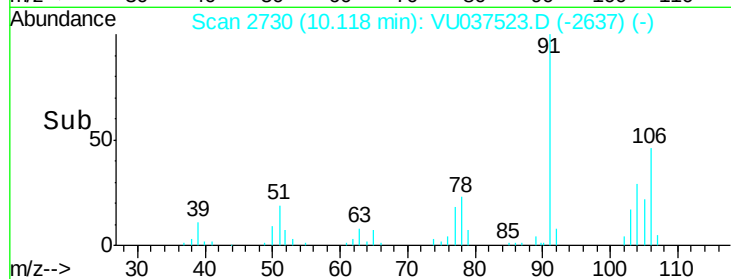
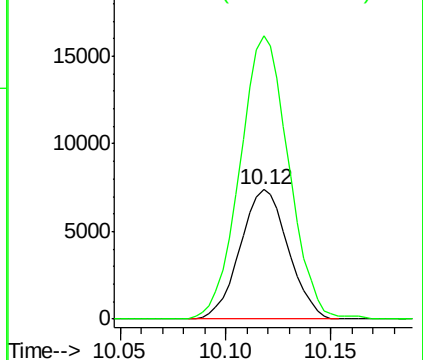
#54
o-Xylene
Concen: 1.07 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Instrument :
MSVOA_U
ClientSampleId :
VSTD00105

Tgt Ion:106 Resp: 11675
Ion Ratio Lower Upper
106 100
91 219.2 156.8 291.2

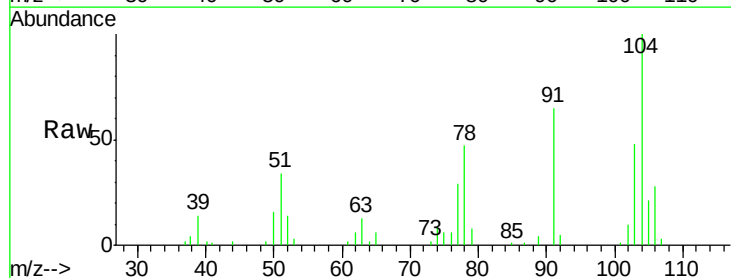


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

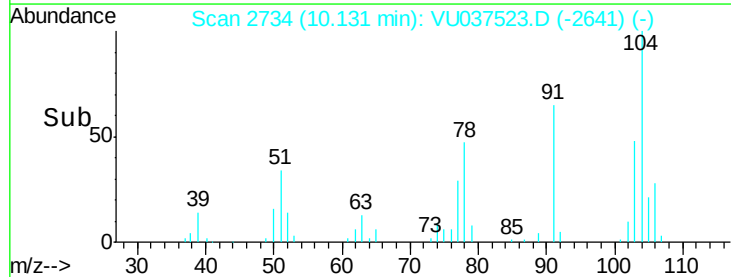
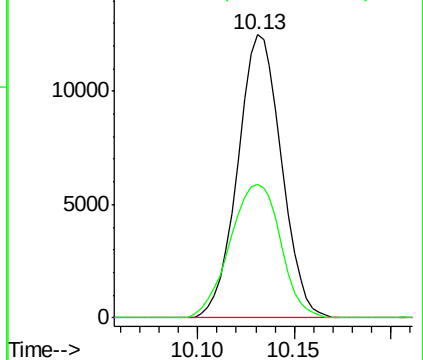


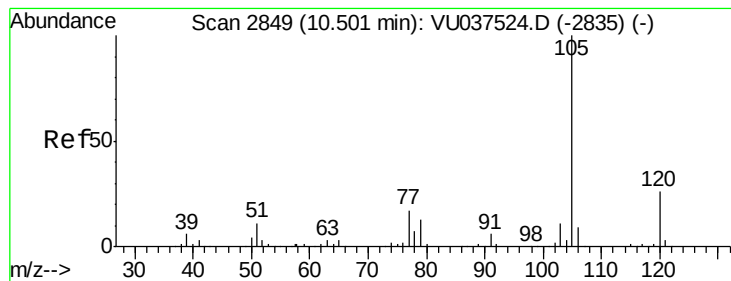
#55
Styrene
Concen: 1.04 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU037523.D
Acq: 01 Apr 2020 14:13

Tgt Ion:104 Resp: 19648
Ion Ratio Lower Upper
104 100
78 47.0 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: 1.04 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

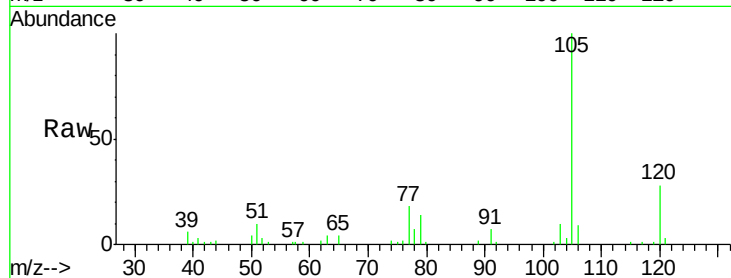
Tgt Ion: 105 Resp: 30491

Ion Ratio Lower Upper

105 100

120 26.4 20.6 31.0

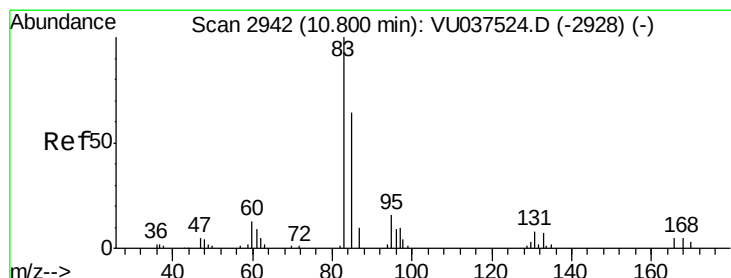
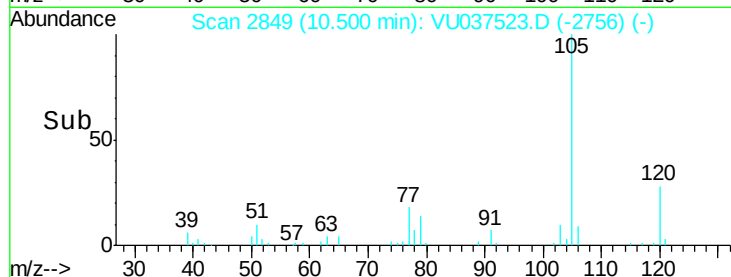
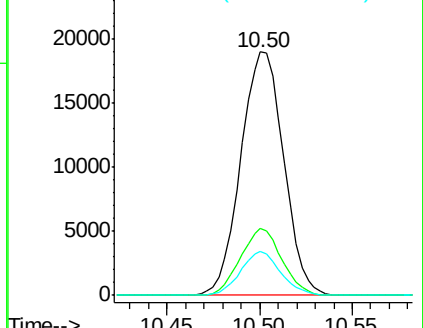
77 16.7 13.5 20.3



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: 1.01 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

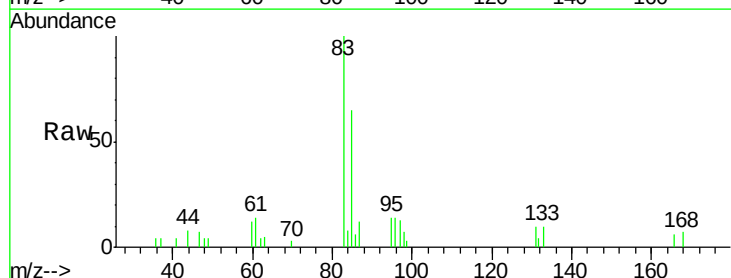
Tgt Ion: 83 Resp: 6511

Ion Ratio Lower Upper

83 100

85 65.2 45.2 84.0

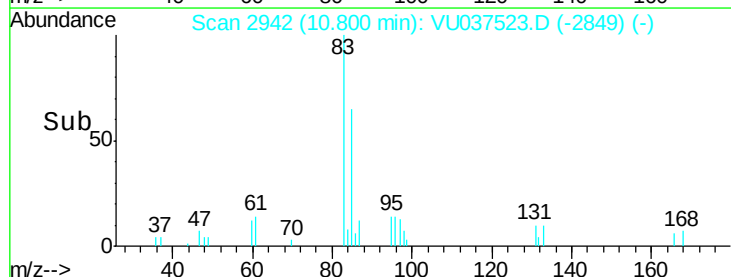
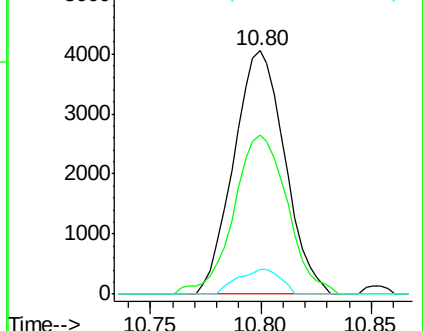
131 10.4 6.6 9.8#

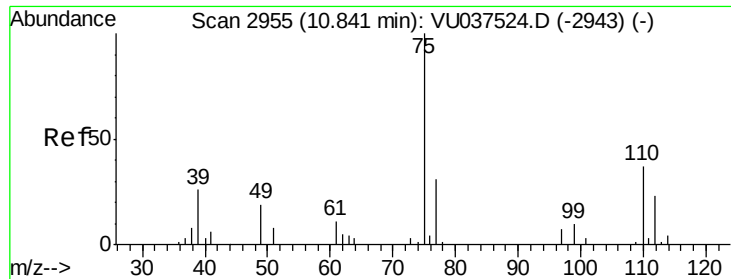


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.99 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

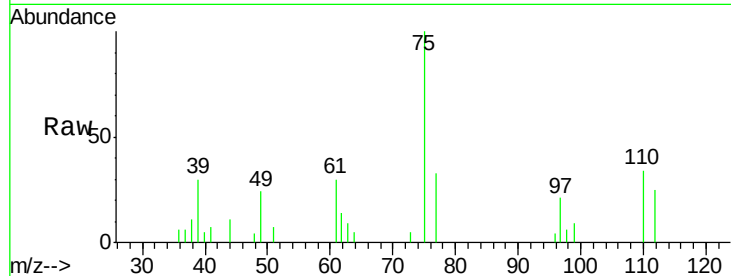
VSTD00105

Tgt Ion: 75 Resp: 4518

Ion Ratio Lower Upper

75 100

77 33.8 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU037524.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037524.D (-2943) (-)

10.84

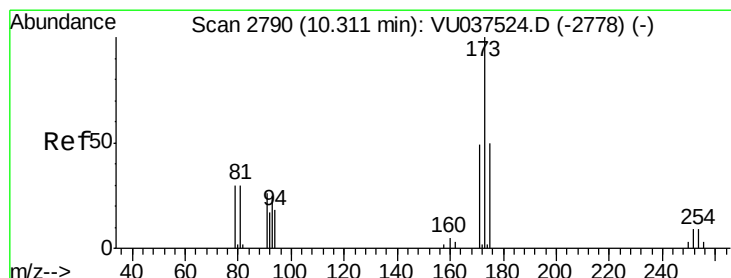
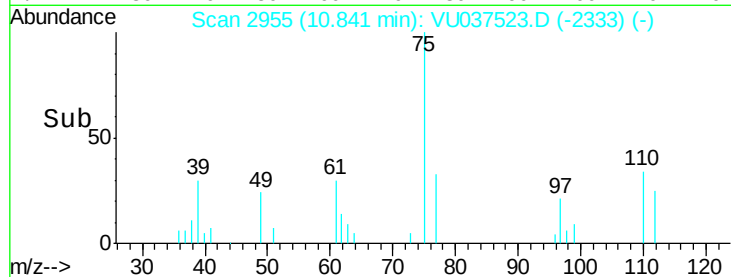
3000

2000

1000

0

Time-->



#61

Bromoform

Concen: 0.95 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

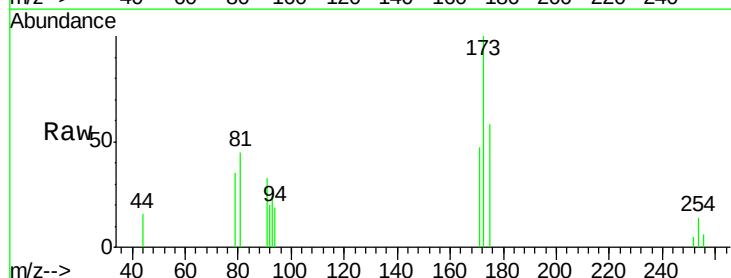
Tgt Ion: 173 Resp: 3289

Ion Ratio Lower Upper

173 100

175 47.0 37.2 55.8

254 8.8 7.7 11.5



Abundance Ion 172.90 (172.60 to 173.60): VU037524.D (-2778) (-)

Ion 174.90 (174.60 to 175.60): VU037524.D (-2778) (-)

Ion 253.75 (253.45 to 254.45): VU037524.D (-2778) (-)

10.31

2500

2000

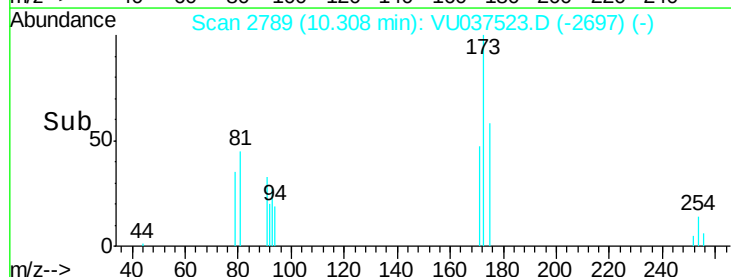
1500

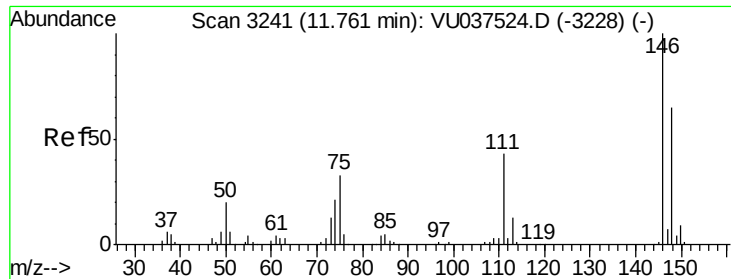
1000

500

0

Time-->

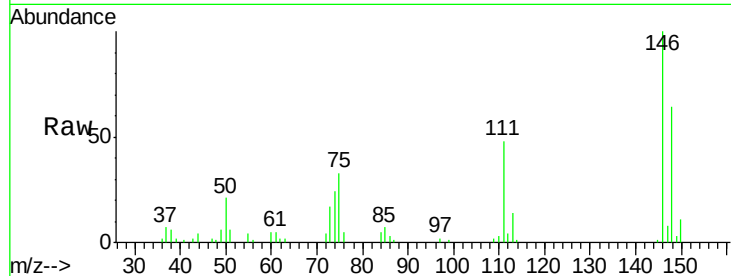




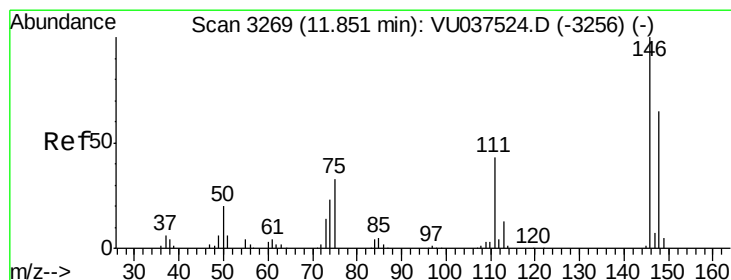
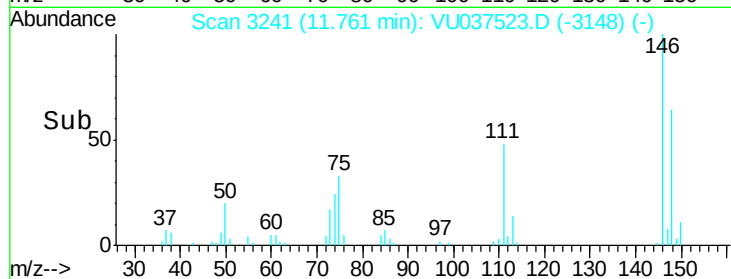
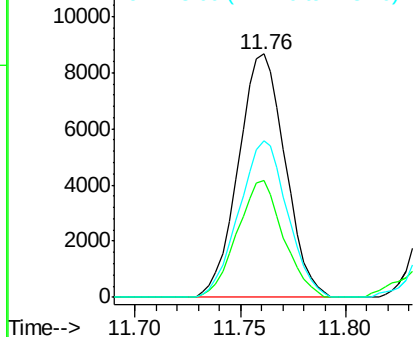
#62
 1,3-Dichlorobenzene
 Concen: 0.98 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

Tgt Ion:146 Resp: 13361
 Ion Ratio Lower Upper
 146 100
 111 47.8 29.8 55.4
 148 64.5 45.2 84.0

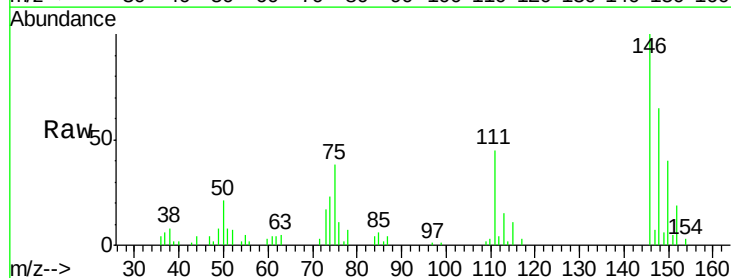


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

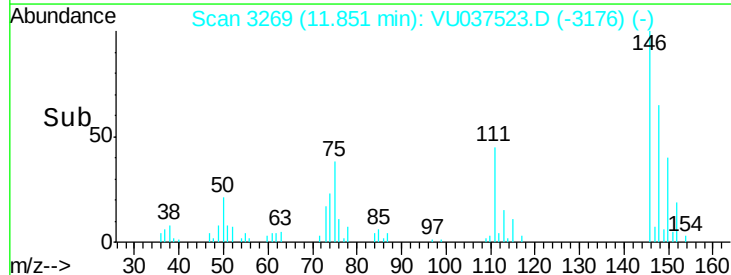
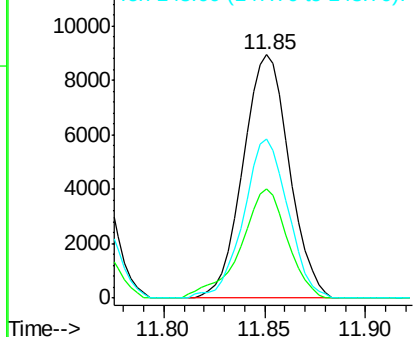


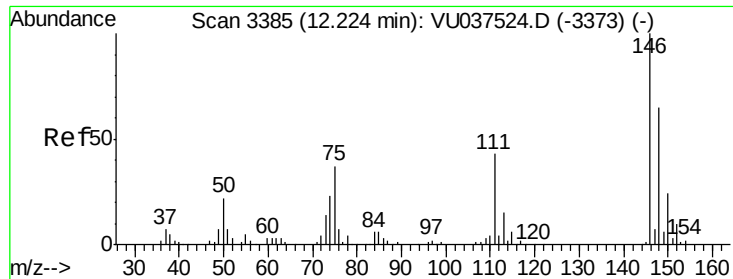
#63
 1,4-Dichlorobenzene
 Concen: 1.04 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Tgt Ion:146 Resp: 14340
 Ion Ratio Lower Upper
 146 100
 111 44.8 29.9 55.5
 148 65.1 45.6 84.8



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

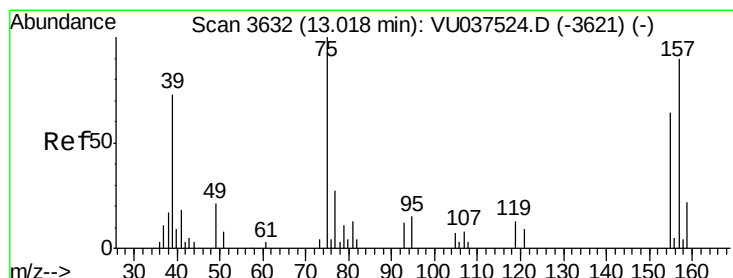
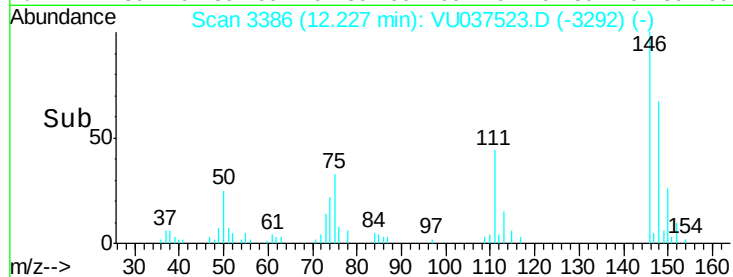
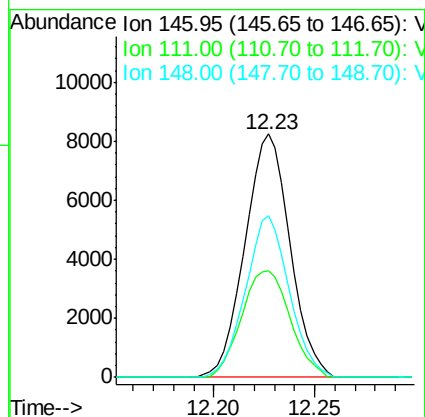
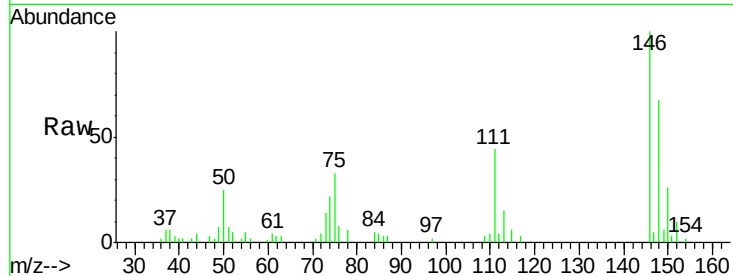




#65
 1,2-Dichlorobenzene
 Concen: 1.01 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

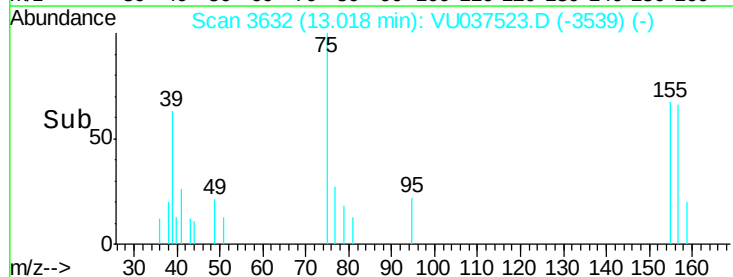
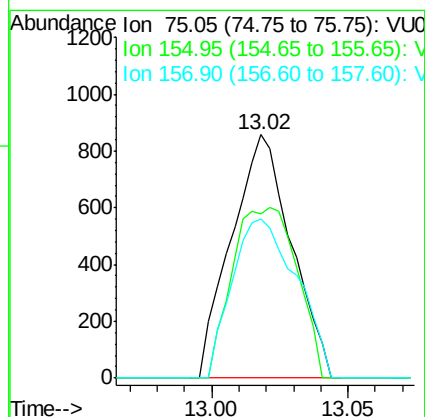
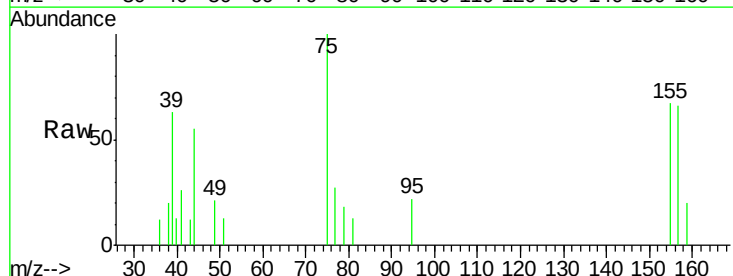
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00105

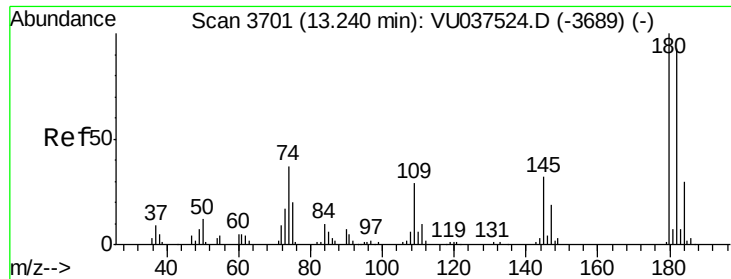
Tgt Ion: 146 Resp: 12915
 Ion Ratio Lower Upper
 146 100
 111 43.6 34.2 51.4
 148 66.5 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.99 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Tgt Ion: 75 Resp: 1307
 Ion Ratio Lower Upper
 75 100
 155 67.2 51.0 76.4
 157 65.5 72.0 108.0#

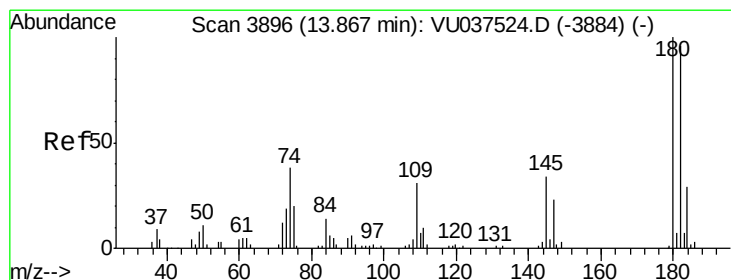
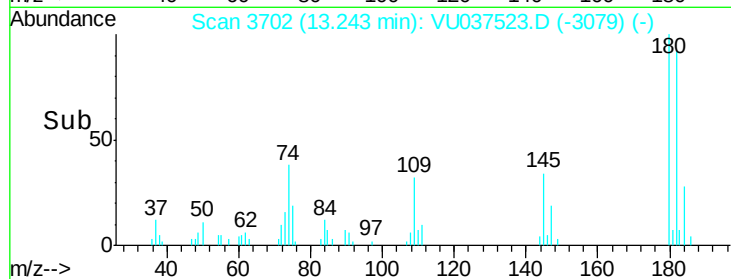
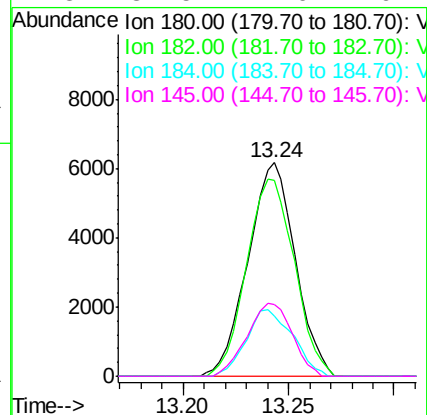
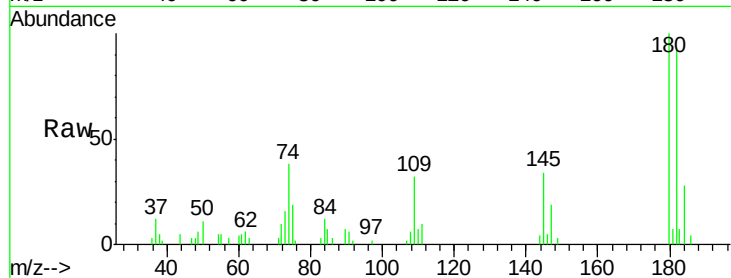




#67
 1,3,5-Trichlorobenzene
 Concen: 1.01 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

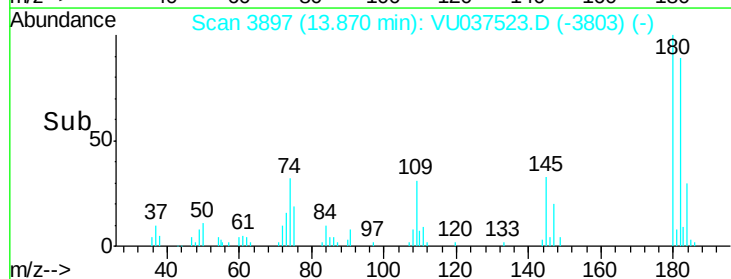
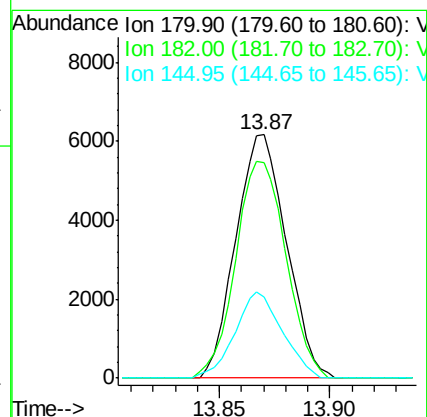
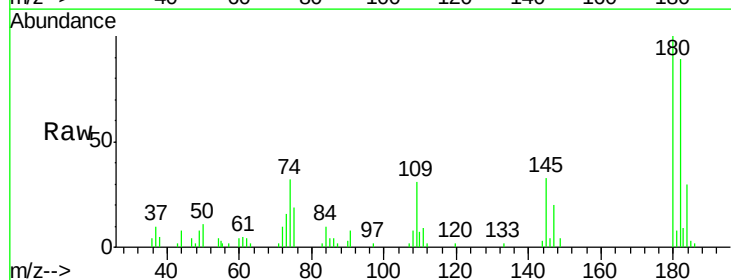
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00105

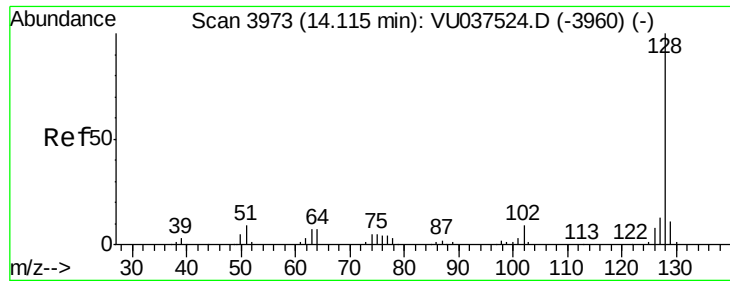
Tgt Ion:180 Resp: 9622
 Ion Ratio Lower Upper
 180 100
 182 93.5 77.9 116.9
 184 30.7 25.0 37.6
 145 32.5 27.0 40.4



#68
 1,2,4-trichlorobenzene
 Concen: 1.07 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU037523.D
 Acq: 01 Apr 2020 14:13

Tgt Ion:180 Resp: 9829
 Ion Ratio Lower Upper
 180 100
 182 88.7 77.4 116.2
 145 33.2 27.5 41.3





#69

Naphthalene

Concen: 0.99 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD00105

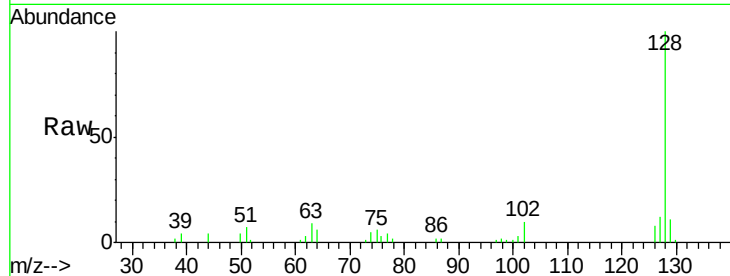
Tgt Ion:128 Resp: 20671

Ion Ratio Lower Upper

128 100

129 10.1 8.4 12.6

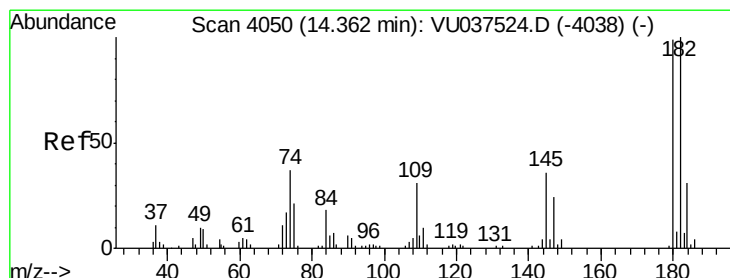
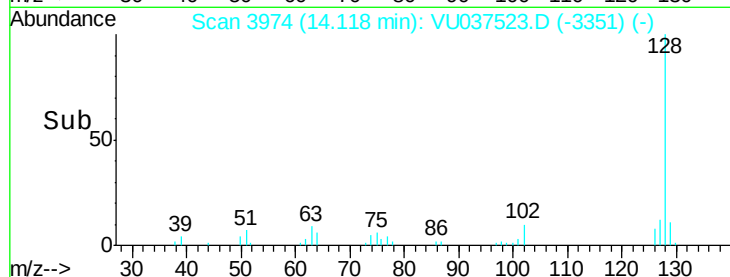
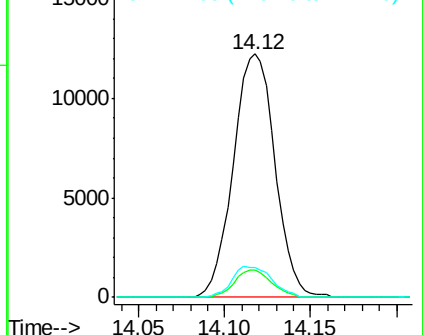
127 12.2 10.4 15.6



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: 1.00 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.00 min

Lab File: VU037523.D

Acq: 01 Apr 2020 14:13

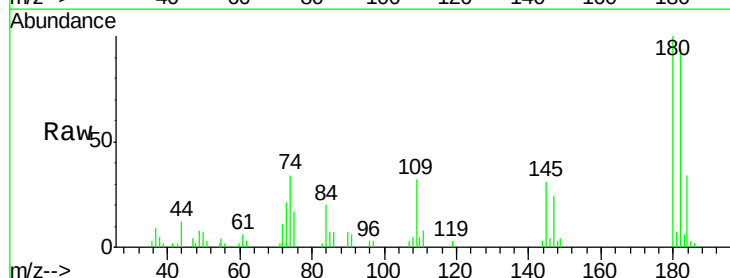
Tgt Ion:180 Resp: 8034

Ion Ratio Lower Upper

180 100

182 98.9 78.7 118.1

145 32.8 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

