

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031120\
 Data File : VU037160.D
 Acq On : 11 Mar 2020 10:45
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

Quant Time: Mar 12 01:47:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Mar 11 08:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	125833	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	125466	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	60129	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	38669	4.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.60%
7) Chloroethane-d5	1.93	69	29658	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	2.59	63	86135	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.20%
20) 2-Butanone-d5	4.69	46	108583	51.37	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.74%
24) Chloroform-d	5.11	84	83358	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.74	65	47284	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.76	84	152521	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.73	67	48052	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.93	98	148261	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
43) trans-1,3-Dichloropropene-	8.20	79	21266	5.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	105.60%
46) 2-Hexanone-d5	8.66	63	89015	53.10	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.20%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	41070	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	52472	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	81396	5.023	ug/L 97
3) Chloromethane	1.53	50	66809	4.833	ug/L 99
5) Vinyl chloride	1.62	62	62161	5.021	ug/L 99
6) Bromomethane	1.87	94	28836	6.197	ug/L 99
8) Chloroethane	1.95	64	32475	5.118	ug/L 98
9) Trichlorofluoromethane	2.16	101	86157	4.904	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	47775	5.261	ug/L 97
12) 1,1-Dichloroethene	2.60	96	42037	5.118	ug/L 96
13) Acetone	2.68	43	97004	56.008	ug/L 93
14) Carbon disulfide	2.82	76	138034	5.066	ug/L 96
15) Methyl Acetate	2.99	43	19687	4.857	ug/L 100
16) Methylene chloride	3.08	84	50152	5.085	ug/L 96
17) Methyl tert-butyl Ether	3.40	73	113627	5.150	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	45467	5.235	ug/L 95
19) 1,1-Dichloroethane	3.91	63	87421	4.973	ug/L 98
21) 2-Butanone	4.76	43	153204	56.193	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	48435	5.068	ug/L 96

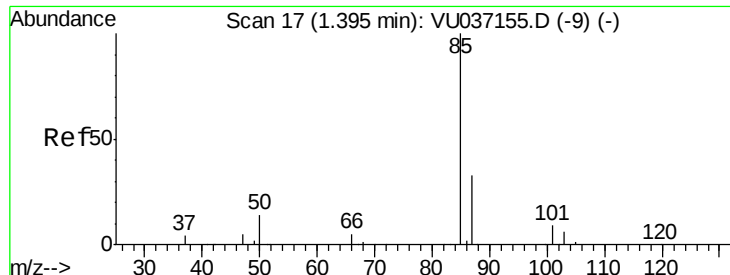
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031120\
 Data File : VU037160.D
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Instrument :
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 ClientSampleId :
 VSTD00530

Quant Time: Mar 12 01:47:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Mar 11 08:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	21608	5.158	ug/L	90
25) Chloroform	5.13	83	96721	5.044	ug/L	100
27) 1,2-Dichloroethane	5.83	62	65727	4.917	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	83949	5.224	ug/L	97
30) Cyclohexane	5.43	56	78854	5.073	ug/L	97
31) Carbon tetrachloride	5.56	117	71842	5.161	ug/L	98
33) Benzene	5.81	78	192939	5.201	ug/L	100
34) Trichloroethene	6.57	95	52260	5.217	ug/L	96
35) Methylcyclohexane	6.79	83	77770	5.022	ug/L	98
37) 1,2-Dichloropropane	6.83	63	52079	5.335	ug/L	98
38) Bromodichloromethane	7.14	83	67637	5.223	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	74419	5.311	ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	368924	53.408	ug/L	99
42) Toluene	8.00	91	211761	5.317	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	66413	5.682	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	36791	5.223	ug/L	99
47) Tetrachloroethene	8.58	164	39495	5.070	ug/L	97
48) 2-Hexanone	8.72	43	267283	55.499	ug/L	98
49) Dibromochloromethane	8.84	129	44503	5.246	ug/L	100
50) 1,2-Dibromoethane	8.95	107	35467	5.311	ug/L #	95
51) Chlorobenzene	9.47	112	131394	5.124	ug/L	99
52) Ethylbenzene	9.59	91	232205	5.273	ug/L	99
53) m,p-Xylene	9.72	106	86455	5.461	ug/L	98
54) o-Xylene	10.12	106	83403	5.404	ug/L	100
55) Styrene	10.13	104	137930	5.449	ug/L	99
56) Isopropylbenzene	10.50	105	226846	5.477	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	47375	5.447	ug/L	96
59) 1,2,3-Trichloropropane	10.84	75	34754	4.975	ug/L	98
61) Bromoform	10.31	173	24598	5.361	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	102656	5.210	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	101760	5.200	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	97929	5.242	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	7690	5.361	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	70563	5.232	ug/L	96
68) 1,2,4-trichlorobenzene	13.87	180	47740	5.219	ug/L	98
69) Naphthalene	14.12	128	64065	4.903	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	46129	5.374	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.023 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

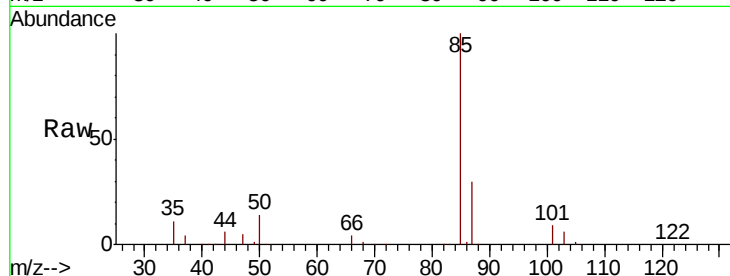
VSTD00530

Tot Ion: 85 Resp: 81396

Ion Ratio Lower Upper

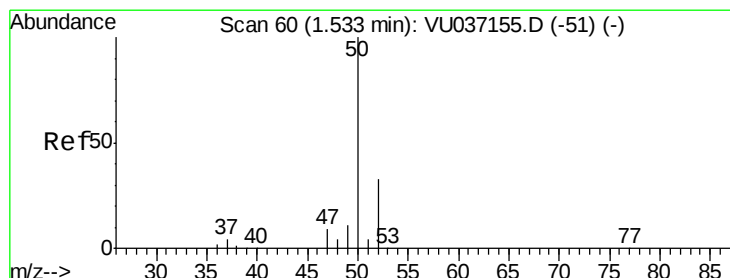
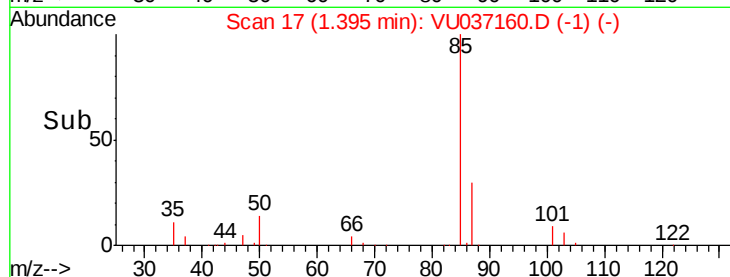
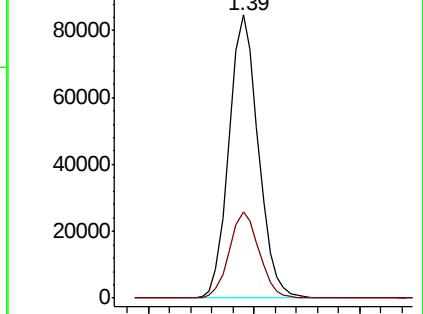
85 100

87 31.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037155.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037155.D (-9) (-)



#3

Chloromethane

Concen: 4.833 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037160.D

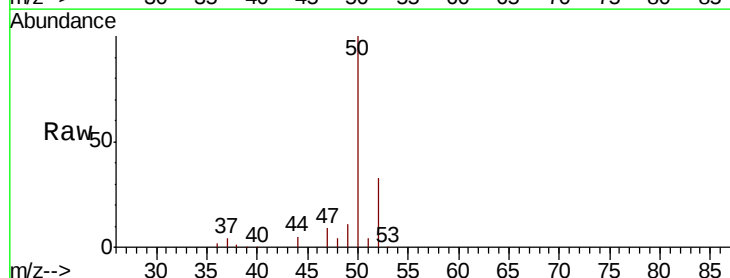
Acq: 11 Mar 2020 10:45

Tgt Ion: 50 Resp: 66809

Ion Ratio Lower Upper

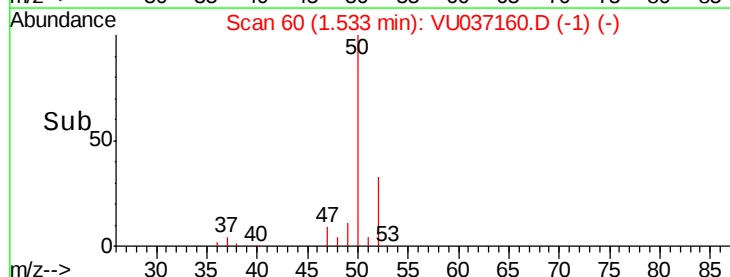
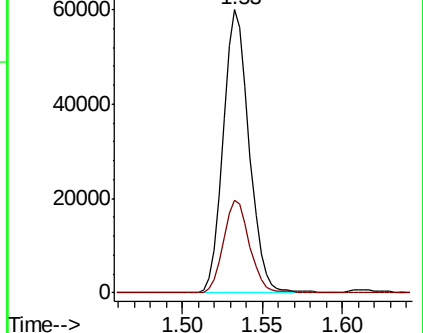
50 100

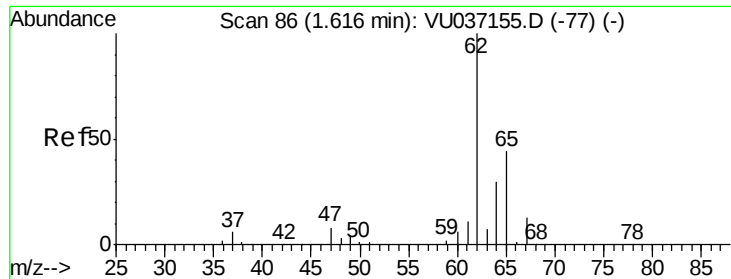
52 32.8 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU037155.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU037155.D (-51) (-)





#5

Vinyl chloride

Concen: 5.021 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

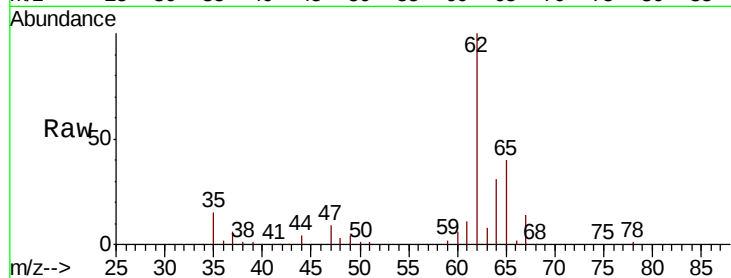
VSTD00530

Tot Ion: 62 Resp: 62161

Ion Ratio Lower Upper

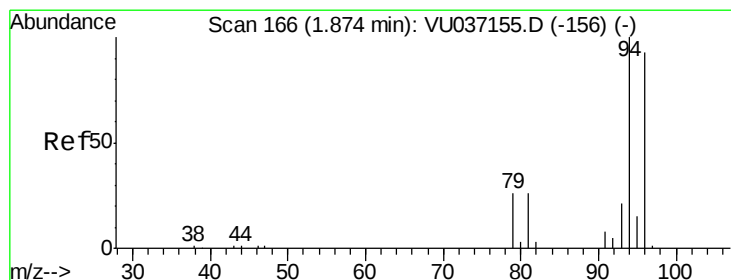
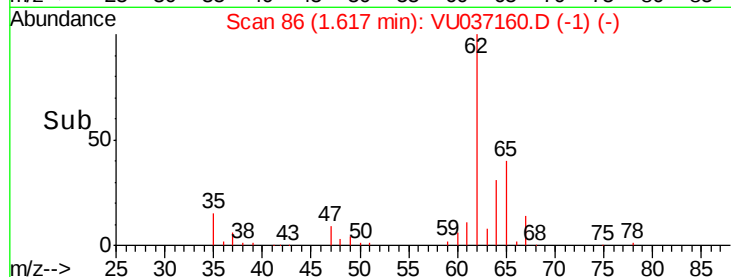
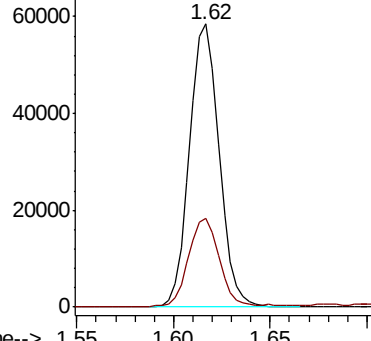
62 100

64 31.4 21.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VU037155.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037160.D (-73) (-)



#6

Bromomethane

Concen: 6.197 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037160.D

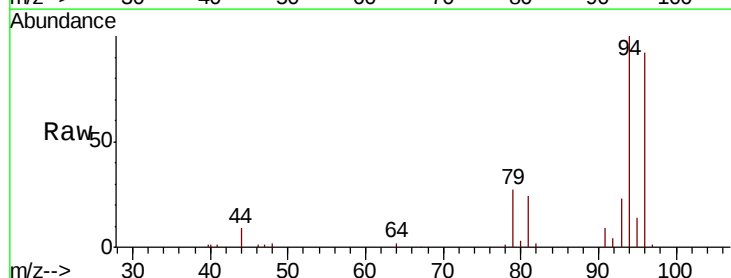
Acq: 11 Mar 2020 10:45

Tgt Ion: 94 Resp: 28836

Ion Ratio Lower Upper

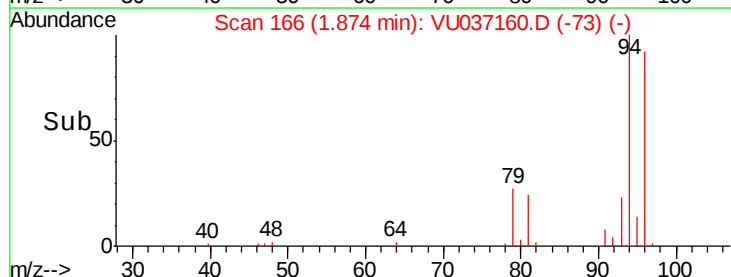
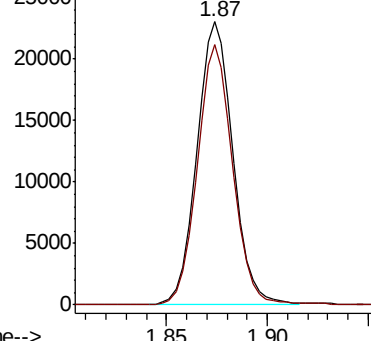
94 100

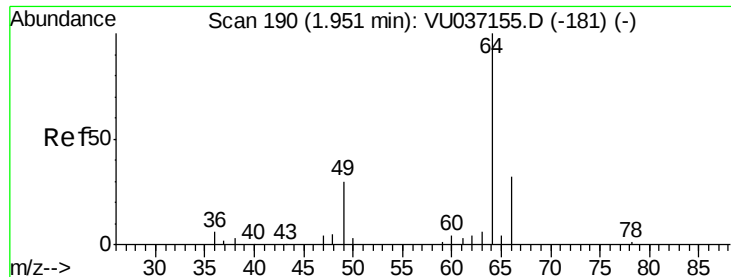
96 91.8 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU037155.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU037160.D (-73) (-)

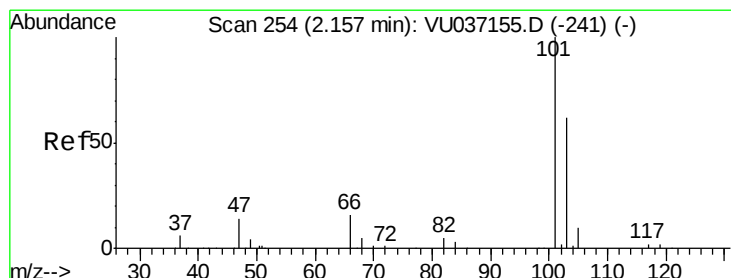
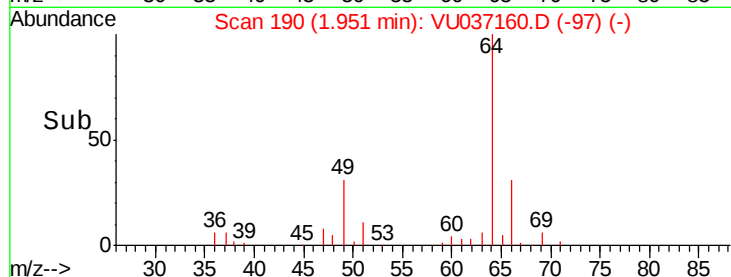
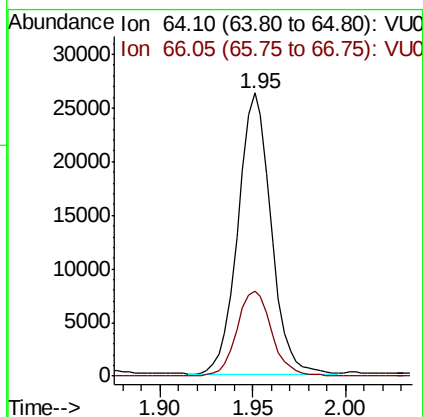
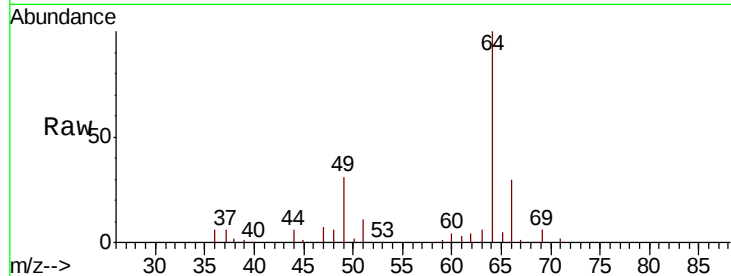




#8
Chloroethane
Concen: 5.118 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

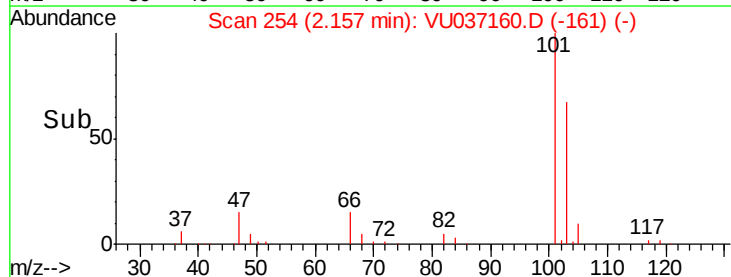
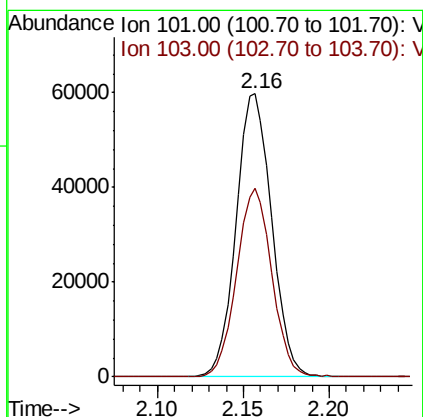
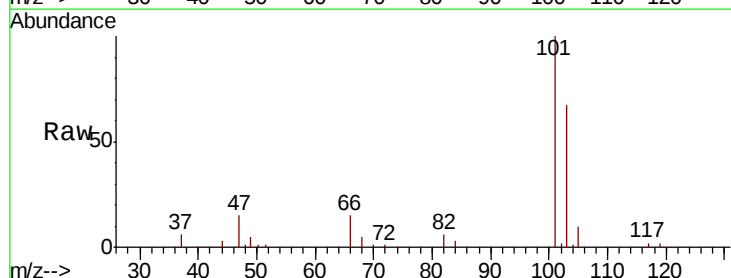
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

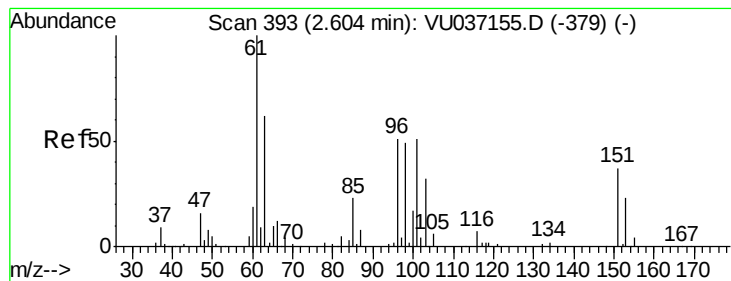
Tot Ion: 64 Resp: 32475
Ion Ratio Lower Upper
64 100
66 30.1 22.0 40.8



#9
Trichlorofluoromethane
Concen: 4.904 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion:101 Resp: 86157
Ion Ratio Lower Upper
101 100
103 65.9 50.2 75.4





#10

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

Concen: 5.261 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

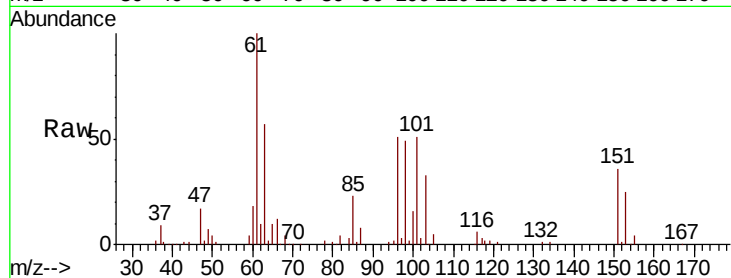
Tot Ion:101 Resp: 47775

Ion Ratio Lower Upper

101 100

85 46.6 37.5 56.3

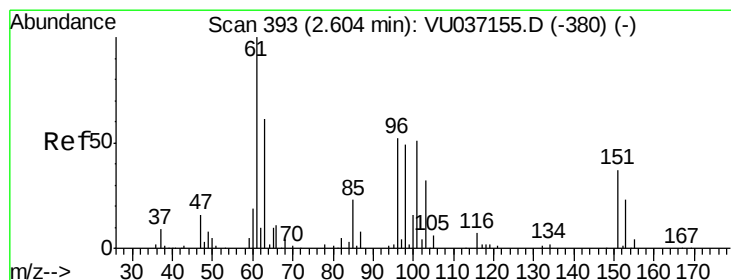
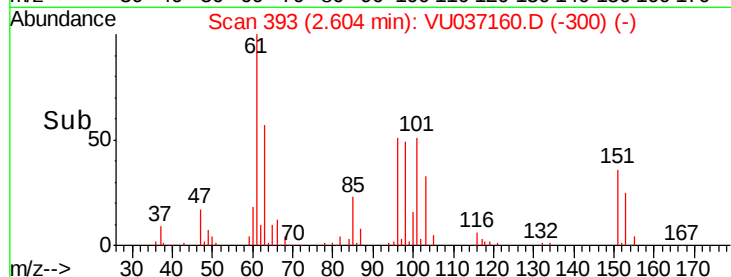
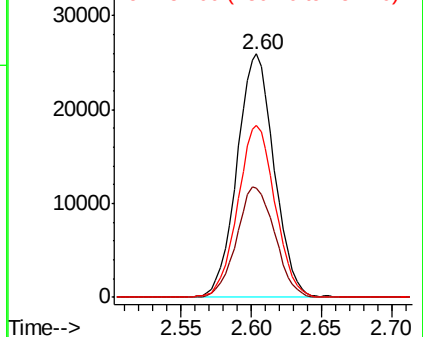
151 71.0 59.8 89.6



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: 5.118 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

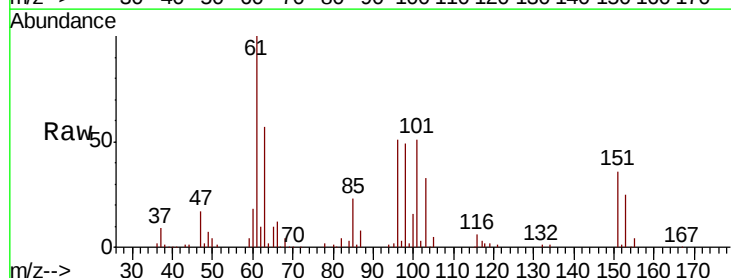
Tgt Ion: 96 Resp: 42037

Ion Ratio Lower Upper

96 100

61 197.1 136.4 253.2

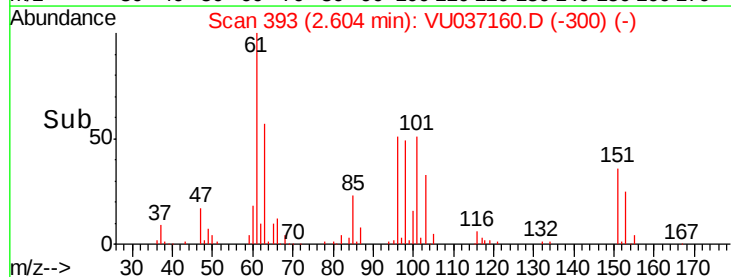
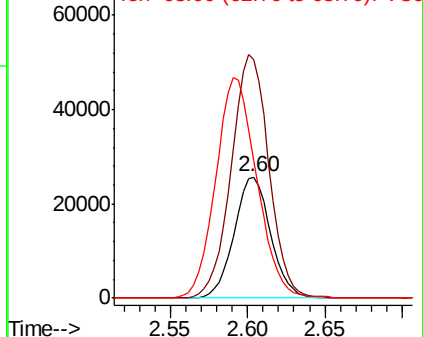
63 113.2 86.2 160.0

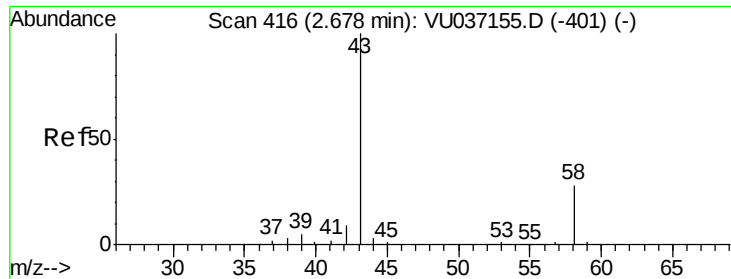


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 56.008 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.01 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

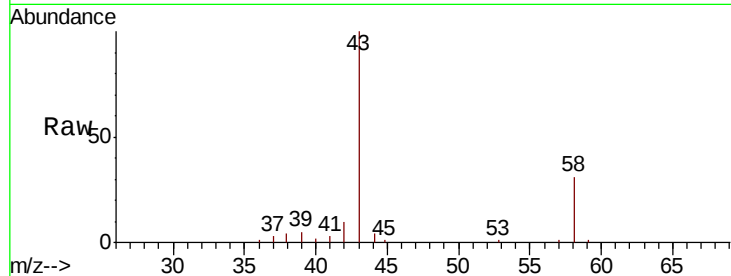
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

Tot Ion: 43 Resp: 97004

Ion Ratio Lower Upper

43 100

58 22.3 0.0 52.2



Abundance Ion 43.05 (42.75 to 43.75): VU037155.D (-401) (-)

Ion 58.05 (57.75 to 58.75): VU037155.D (-401) (-)

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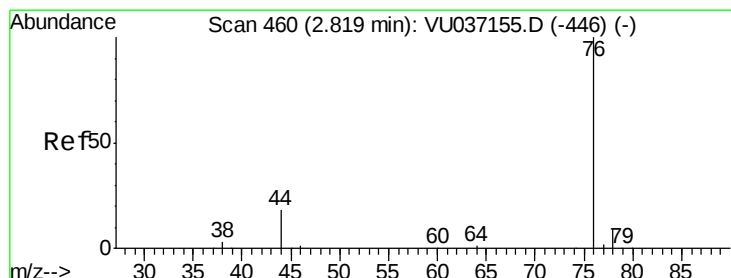
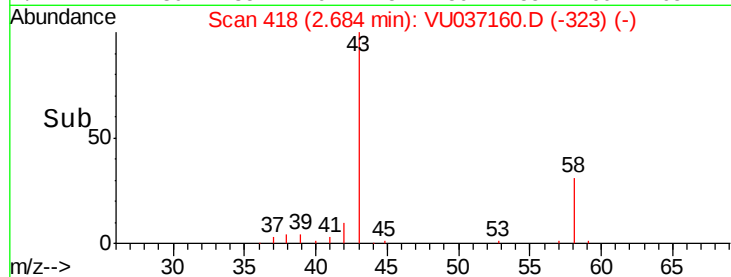
2.68

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#14

Carbon disulfide

Concen: 5.066 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037160.D

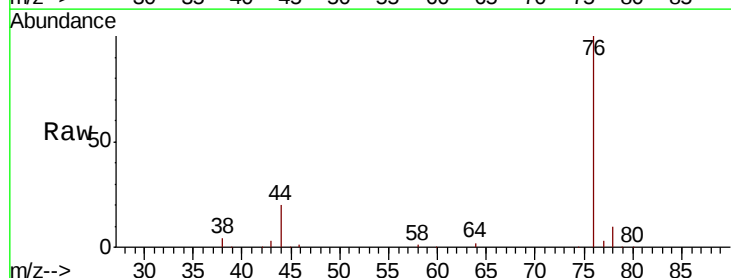
Acq: 11 Mar 2020 10:45

Tgt Ion: 76 Resp: 138034

Ion Ratio Lower Upper

76 100

78 10.0 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU037155.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037155.D (-446) (-)

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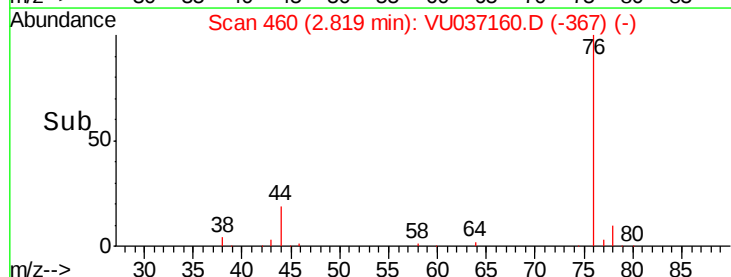
2.82

2.82

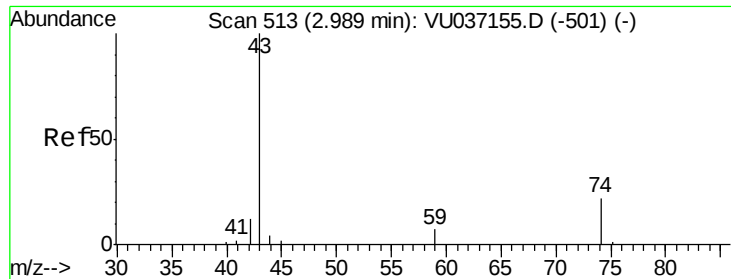
2.82

2.82

2.82



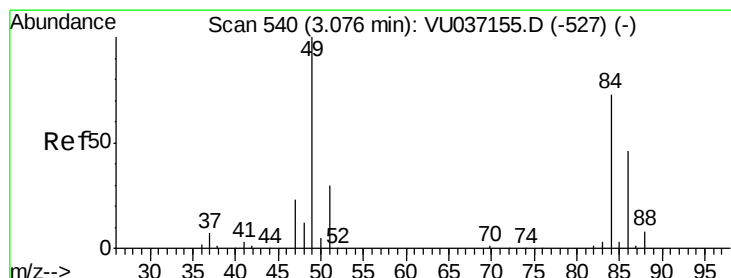
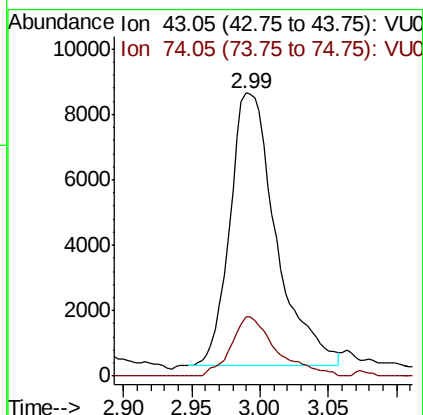
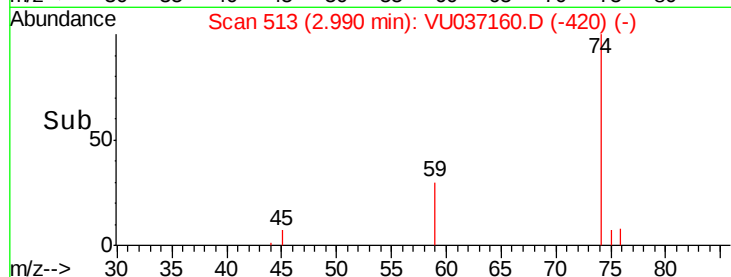
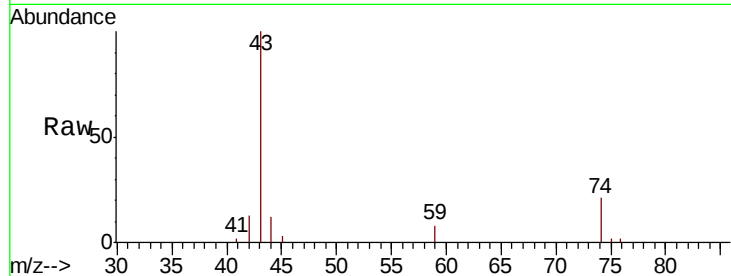
Time-->



#15
Methyl Acetate
Concen: 4.857 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

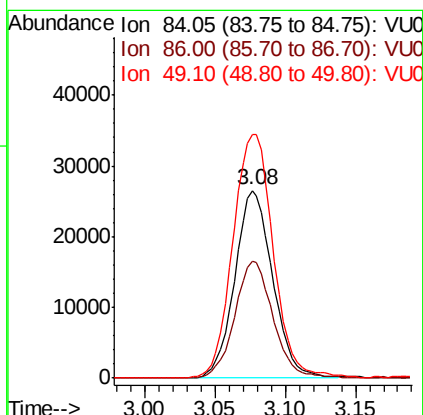
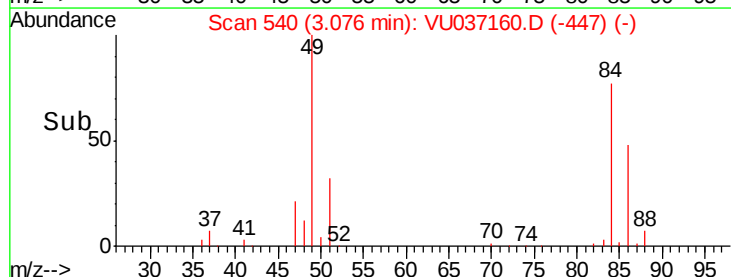
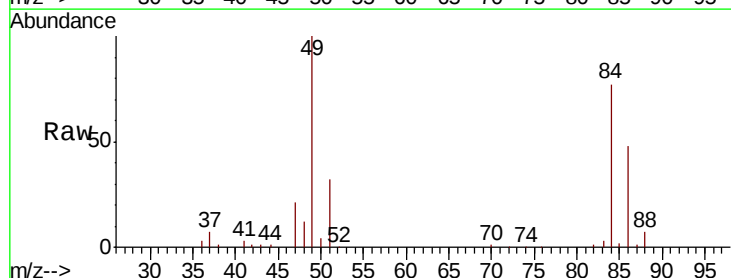
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

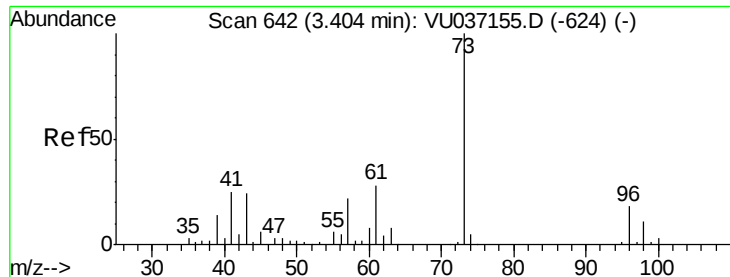
Tot Ion: 43 Resp: 19687
Ion Ratio Lower Upper
43 100
74 21.4 17.1 25.7



#16
Methylene chloride
Concen: 5.085 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion: 84 Resp: 50152
Ion Ratio Lower Upper
84 100
86 62.4 44.3 82.3
49 129.8 95.3 177.1

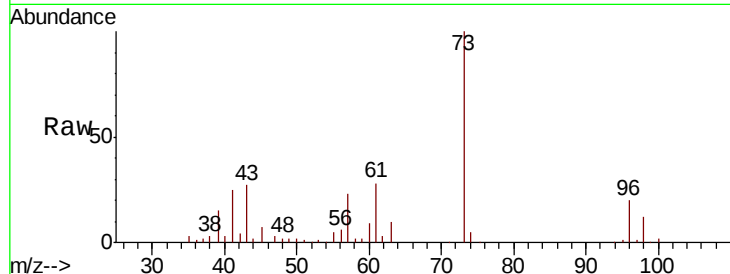




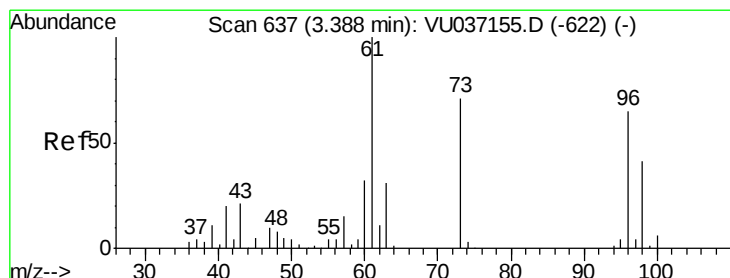
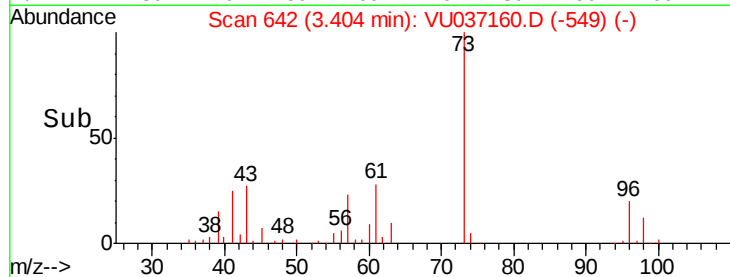
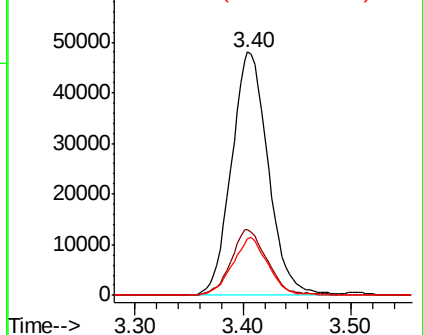
#17
Methvl tert-butvl Ether
Concen: 5.150 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

Tot Ion: 73 Resp: 113627
Ion Ratio Lower Upper
73 100
43 26.9 21.1 31.7
57 22.8 17.9 26.9

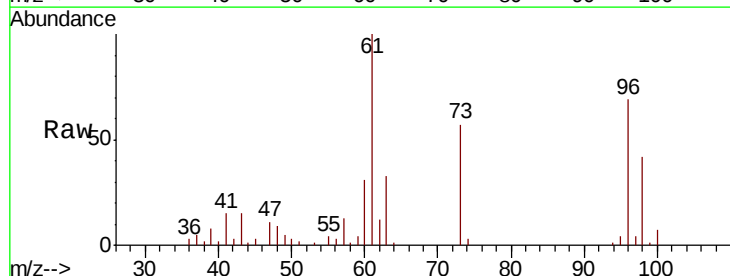


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

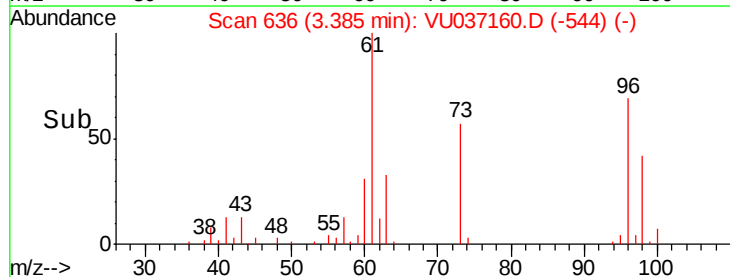
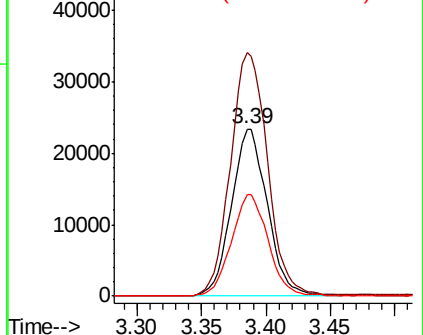


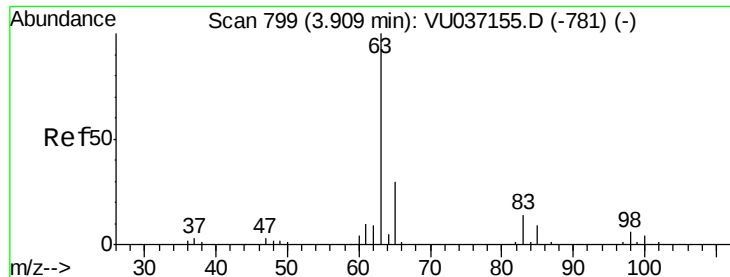
#18
trans-1,2-Dichloroethene
Concen: 5.235 ug/L
RT: 3.39 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion: 96 Resp: 45467
Ion Ratio Lower Upper
96 100
61 145.6 107.2 199.2
98 60.5 43.6 81.0



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

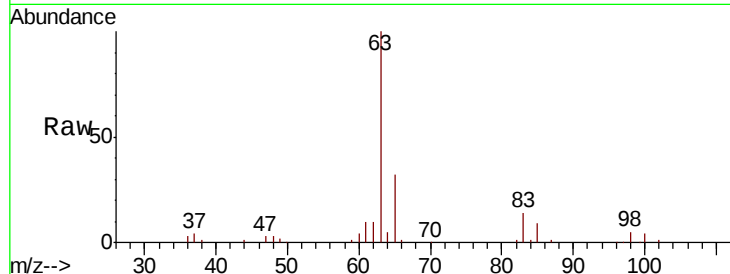




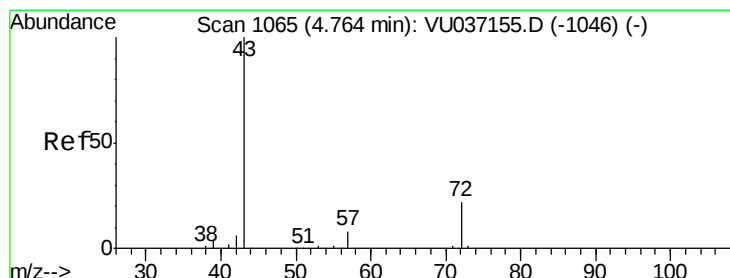
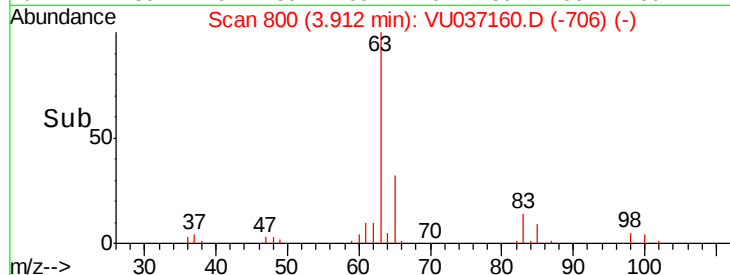
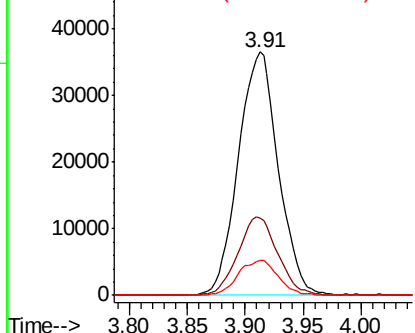
#19
 1,1-Dichloroethane
 Concen: 4.973 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

Tot Ion: 63 Resp: 87421
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.3 39.5
 83 14.3 10.0 18.6

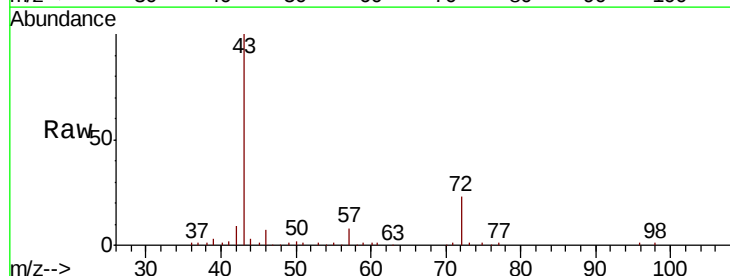


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

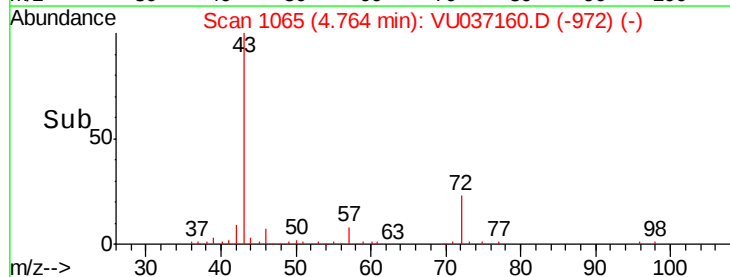
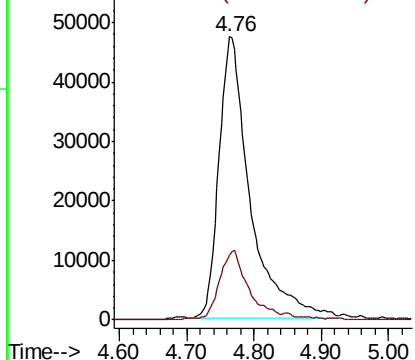


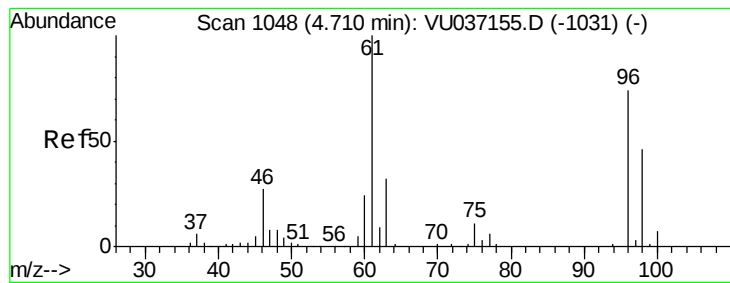
#21
 2-Butanone
 Concen: 56.193 ug/L
 RT: 4.76 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion: 43 Resp: 153204
 Ion Ratio Lower Upper
 43 100
 72 22.2 11.6 34.7



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





#22

cis-1,2-Dichloroethene

Concen: 5.068 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

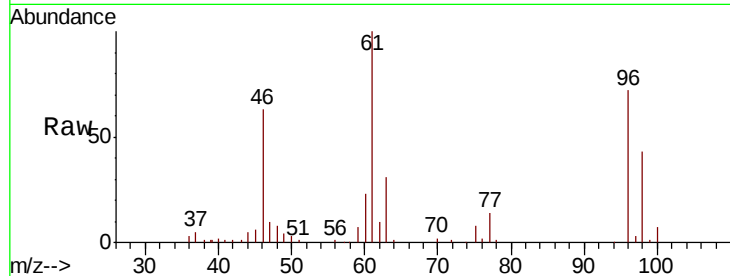
Tot Ion: 96 Resp: 48435

Ion Ratio Lower Upper

96 100

61 138.9 94.1 174.8

68 0.0 0.0 0.0

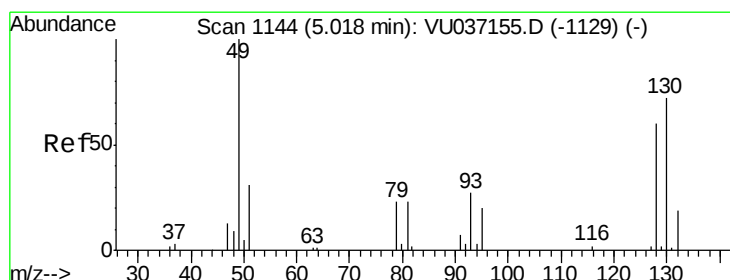
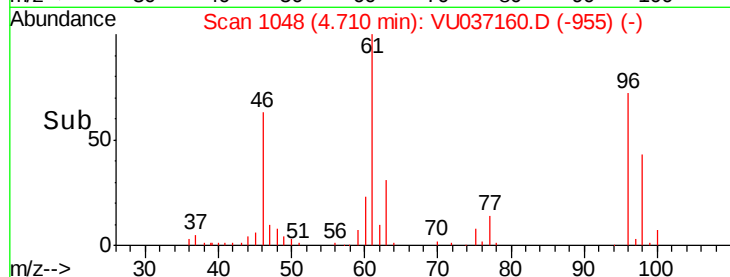
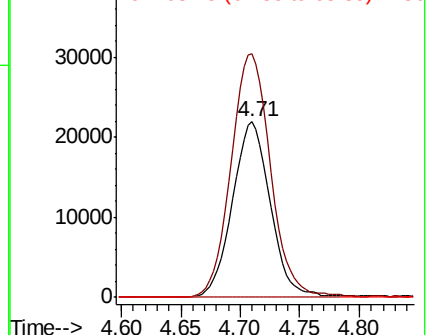


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.158 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Tgt Ion: 128 Resp: 21608

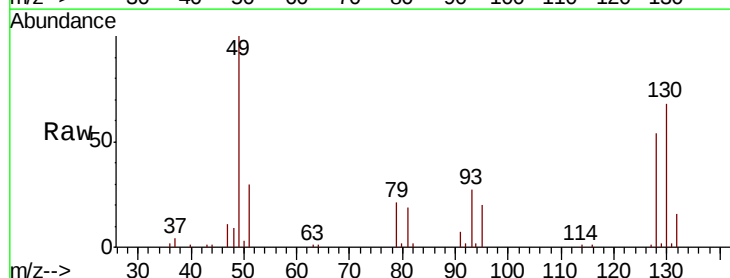
Ion Ratio Lower Upper

128 100

49 184.2 115.7 214.9

130 125.1 83.1 154.3

51 56.0 42.5 63.7



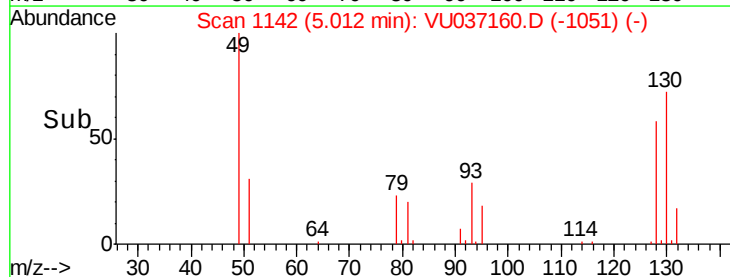
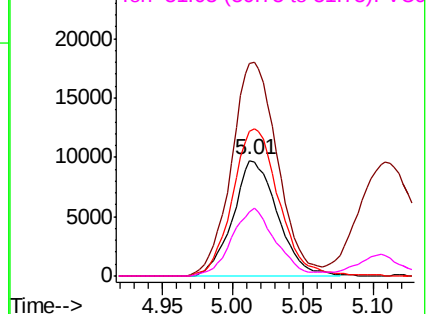
Abundance

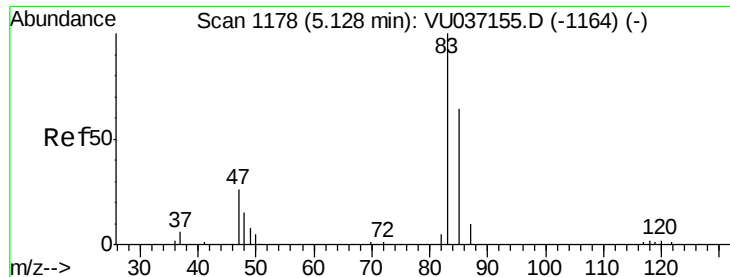
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

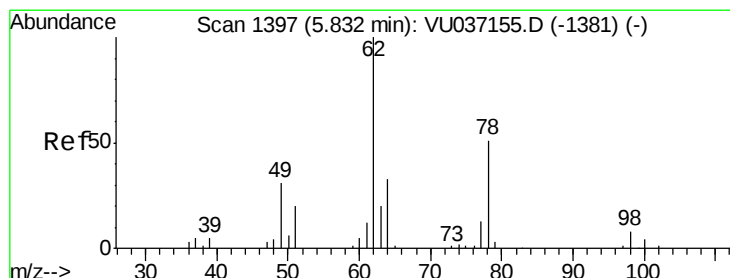
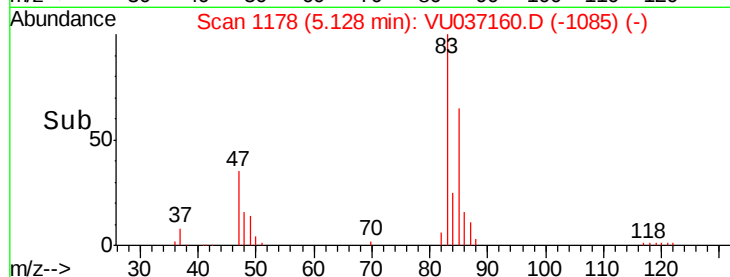
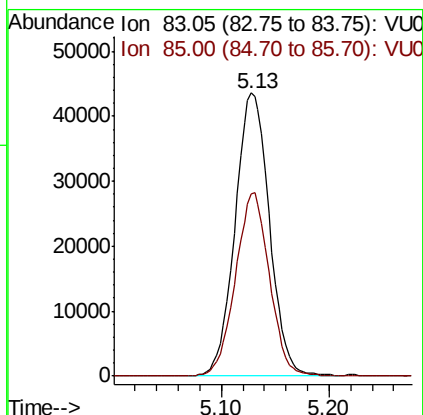
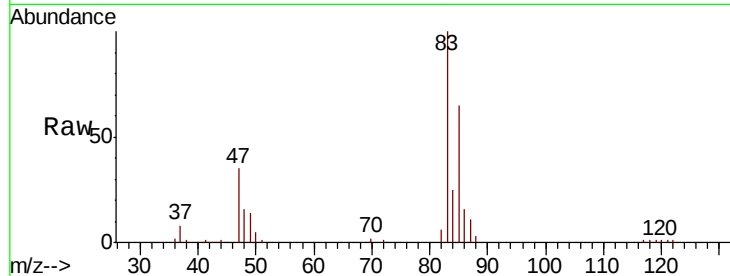




#25
Chloroform
Concen: 5.044 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

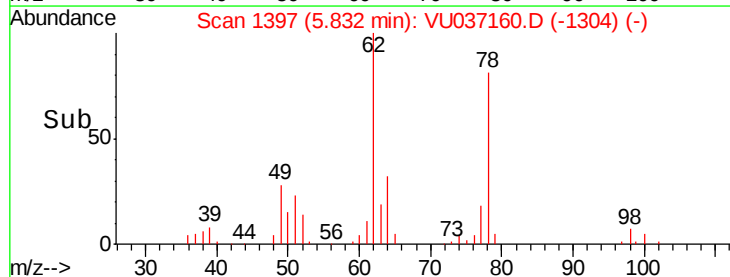
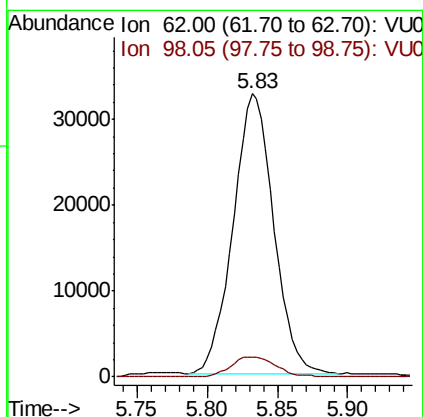
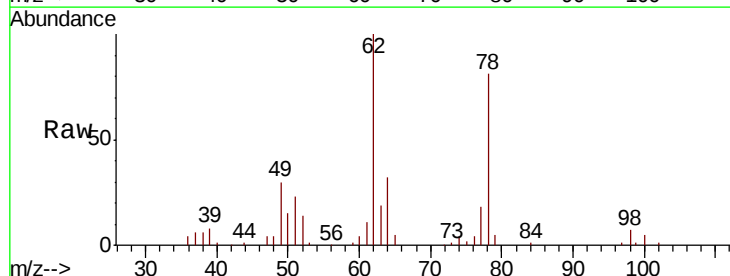
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

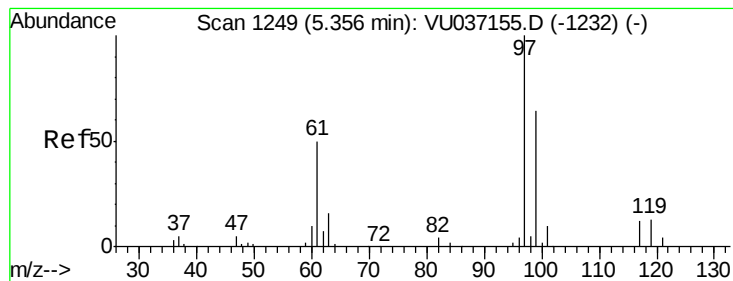
Tot Ion: 83 Resp: 96721
Ion Ratio Lower Upper
83 100
85 64.6 45.3 84.1



#27
1,2-Dichloroethane
Concen: 4.917 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion: 62 Resp: 65727
Ion Ratio Lower Upper
62 100
98 7.0 5.9 8.9





#29

1,1,1-Trichloroethane

Concen: 5.224 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

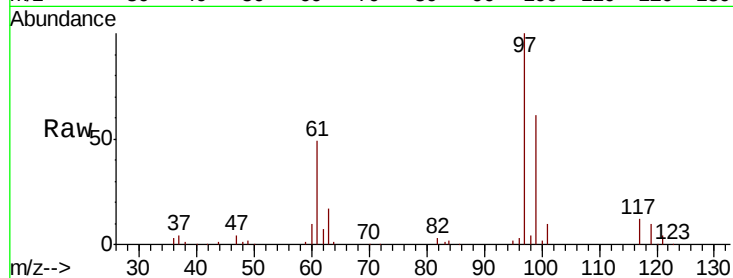
Tot Ion: 97 Resp: 83949

Ion Ratio Lower Upper

97 100

99 62.4 52.4 78.6

61 49.8 40.6 61.0

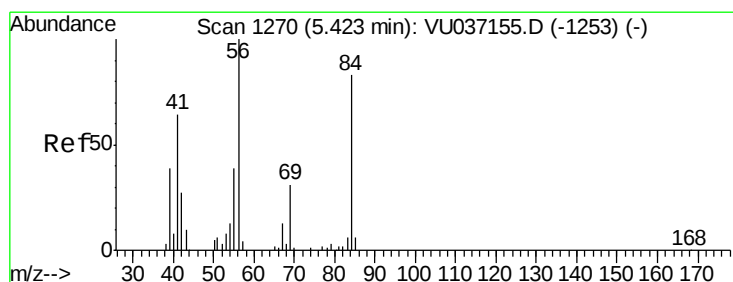
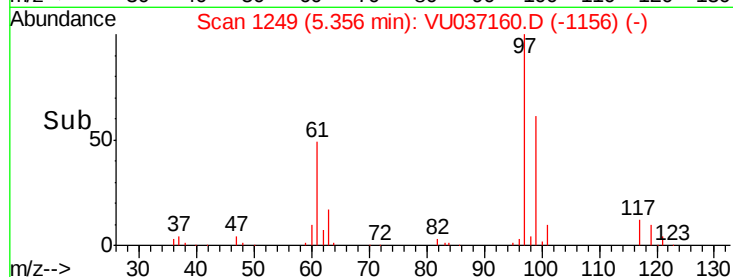
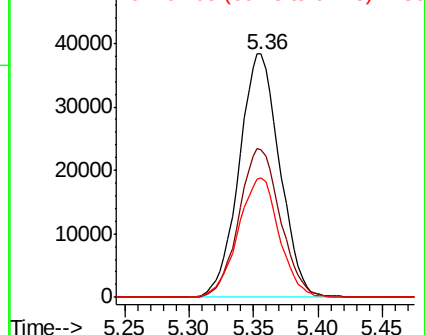


Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 5.073 ug/L

RT: 5.43 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

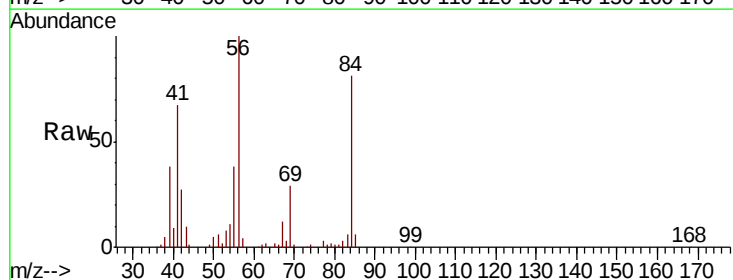
Tgt Ion: 56 Resp: 78854

Ion Ratio Lower Upper

56 100

69 28.2 25.0 37.6

84 80.4 65.4 98.2

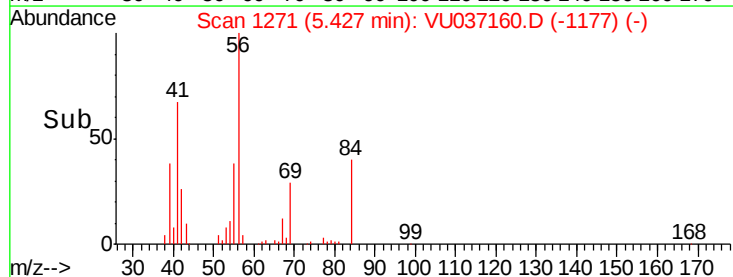
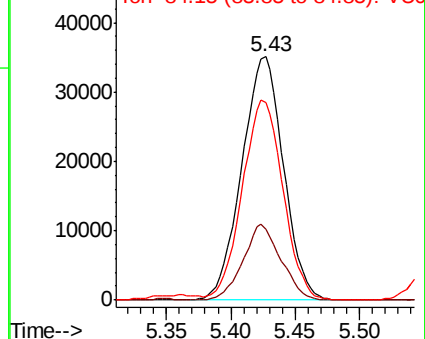


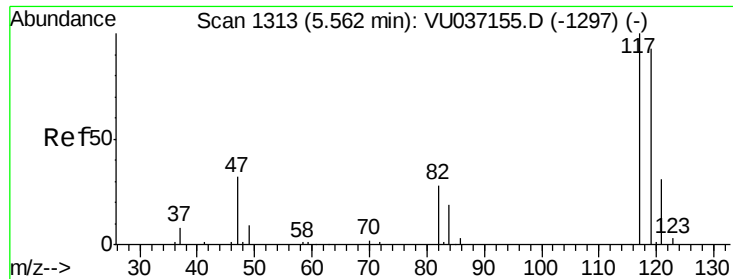
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.161 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

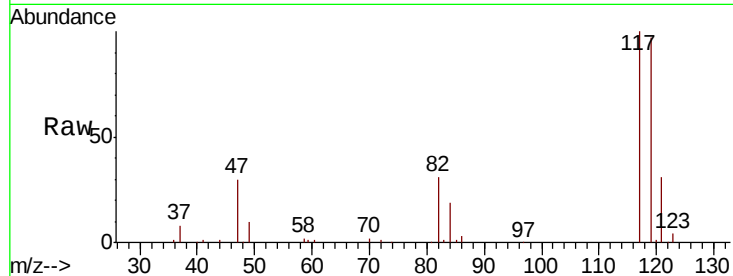
VSTD00530

Tot Ion:117 Resp: 71842

Ion Ratio Lower Upper

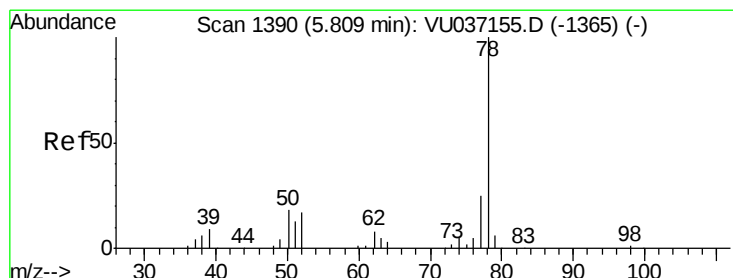
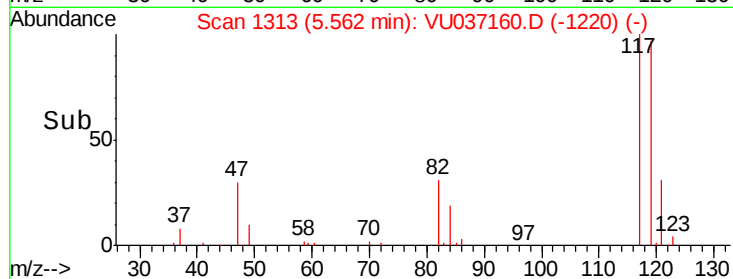
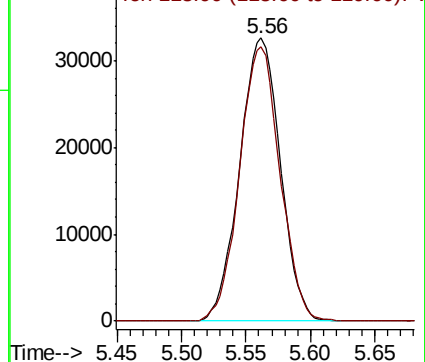
117 100

119 96.2 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.201 ug/L

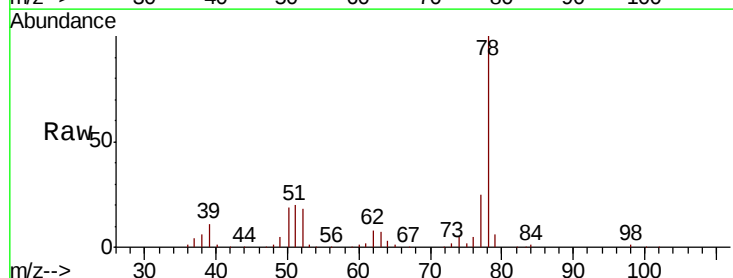
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

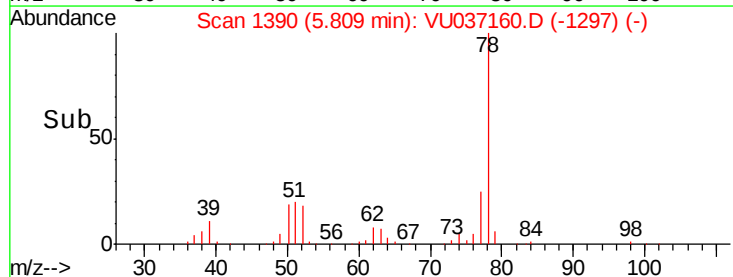
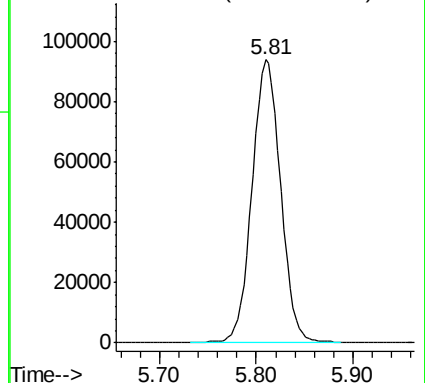
Lab File: VU037160.D

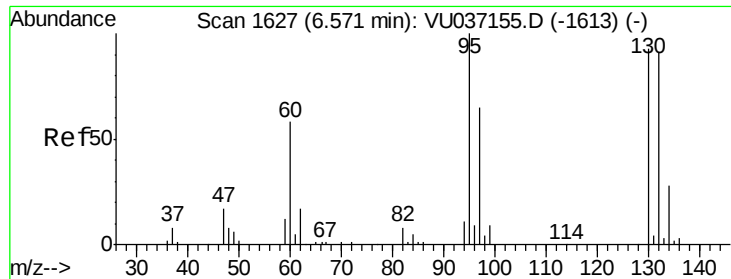
Acq: 11 Mar 2020 10:45

Tgt Ion: 78 Resp: 192939



Abundance Ion 78.10 (77.80 to 78.80): VU0

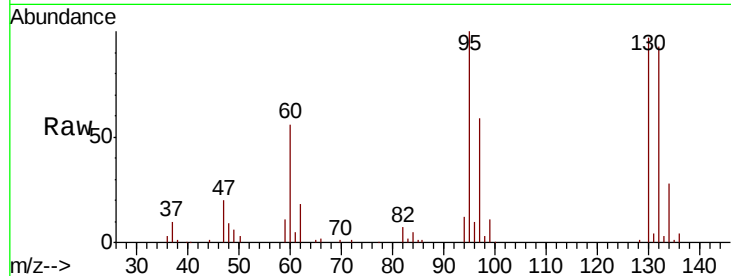




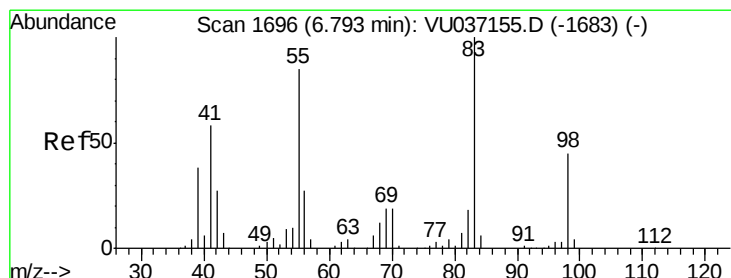
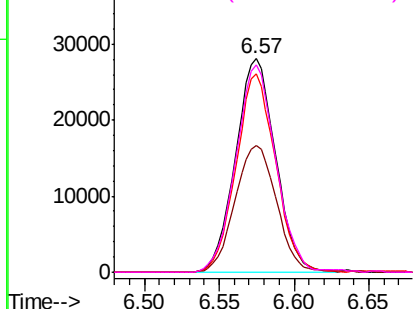
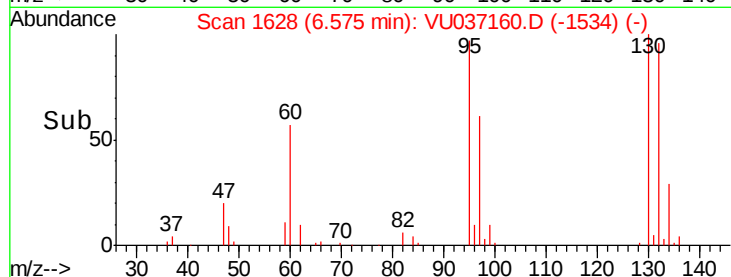
#34
 Trichloroethene
 Concen: 5.217 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

Tot Ion: 95 Resp: 52260
 Ion Ratio Lower Upper
 95 100
 97 59.3 45.4 84.4
 132 92.8 63.7 118.3
 130 96.8 64.8 120.4

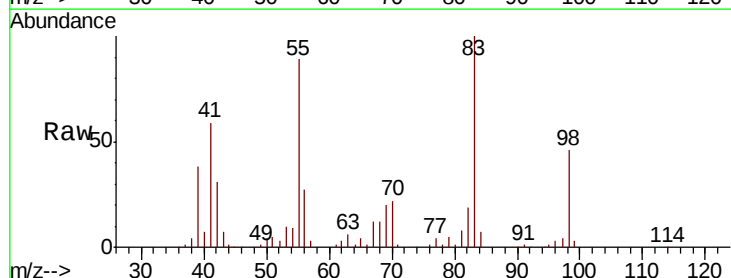


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

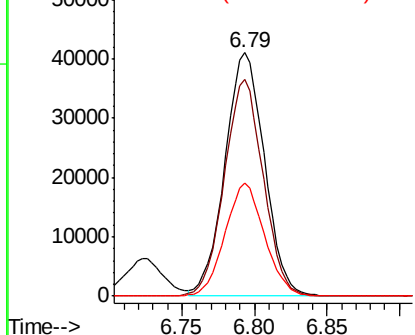
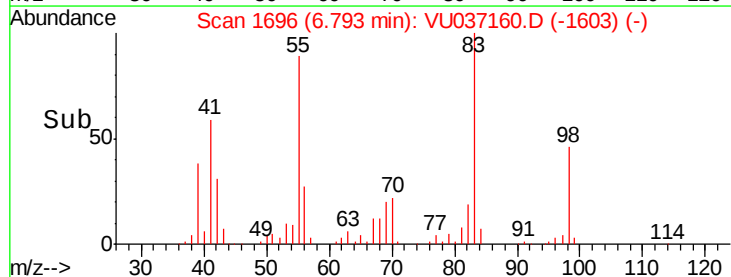


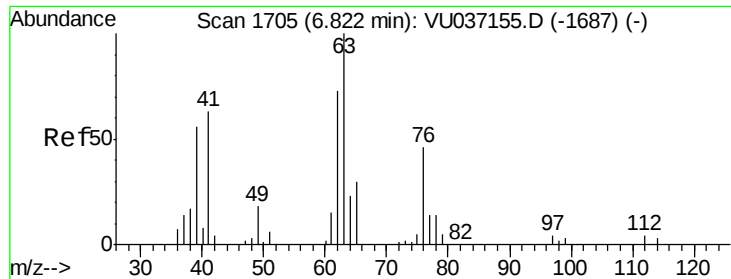
#35
 Methylcyclohexane
 Concen: 5.022 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion: 83 Resp: 77770
 Ion Ratio Lower Upper
 83 100
 55 87.3 68.1 102.1
 98 46.2 37.0 55.4



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

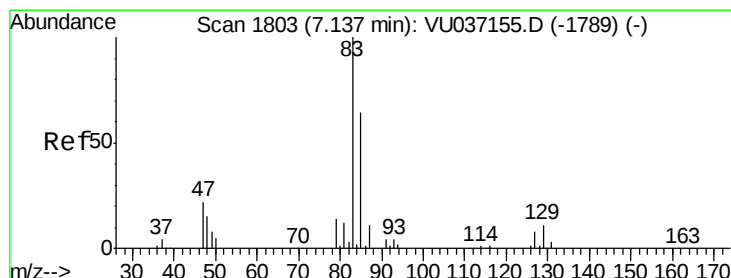
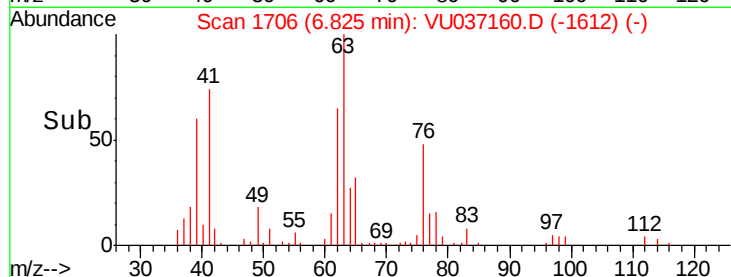
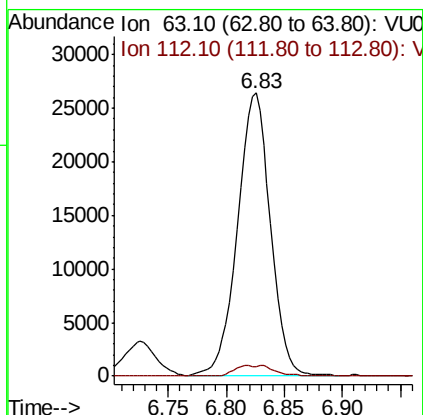
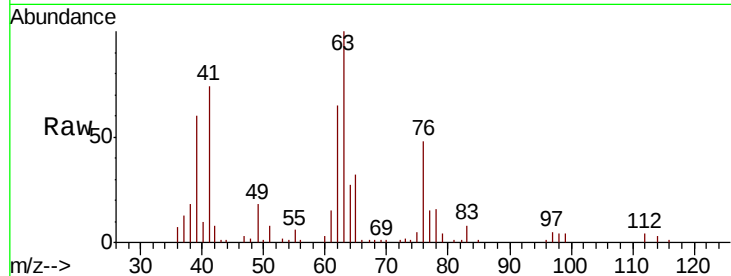




#37
 1,2-Dichloropropane
 Concen: 5.335 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

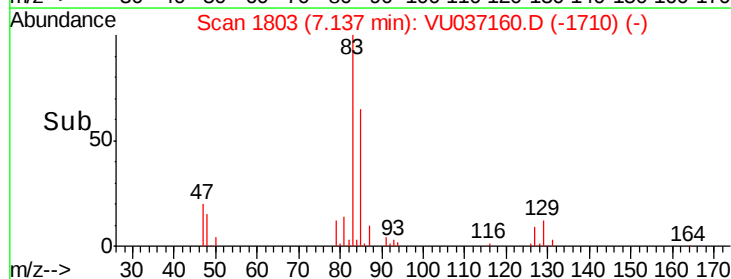
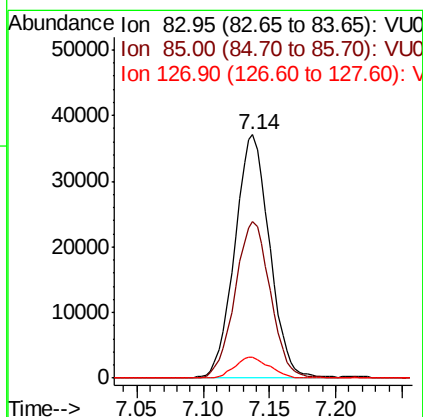
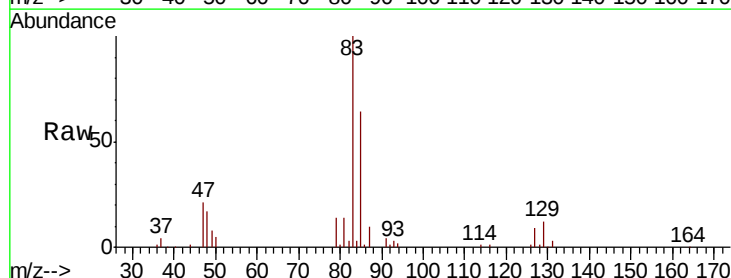
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

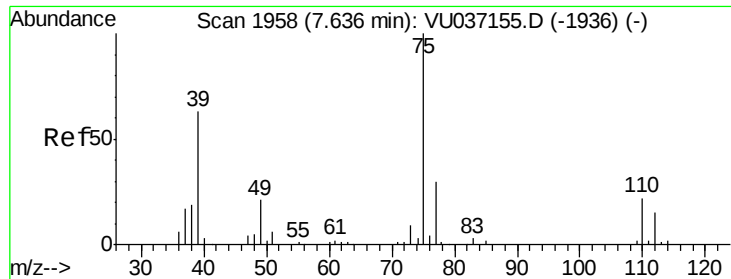
Tot Ion: 63 Resp: 52079
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.0 4.6



#38
 Bromodichloromethane
 Concen: 5.223 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion: 83 Resp: 67637
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.1 83.7
 127 8.6 6.7 10.1

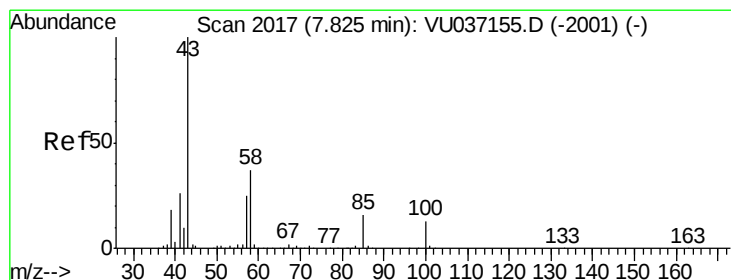
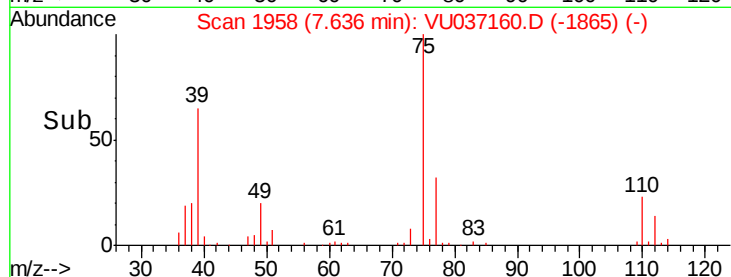
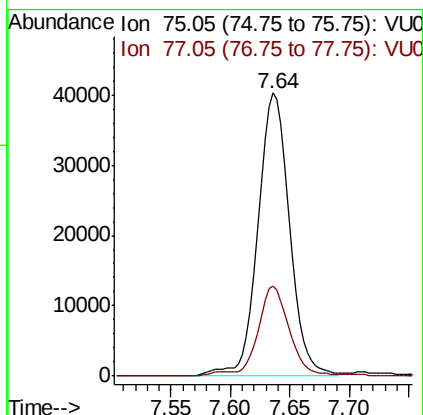
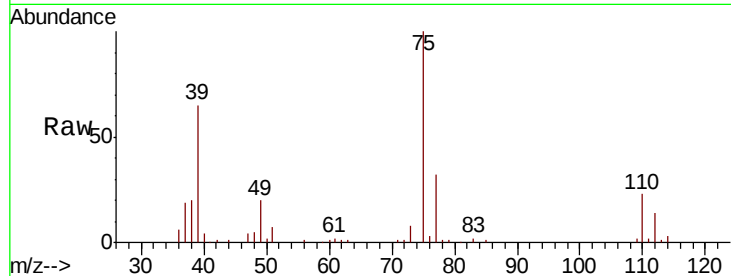




#39
 cis-1,3-Dichloropropene
 Concen: 5.311 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

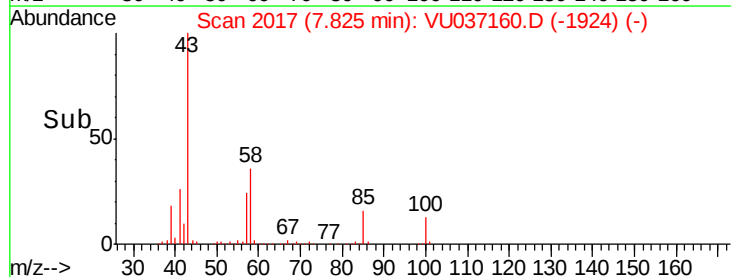
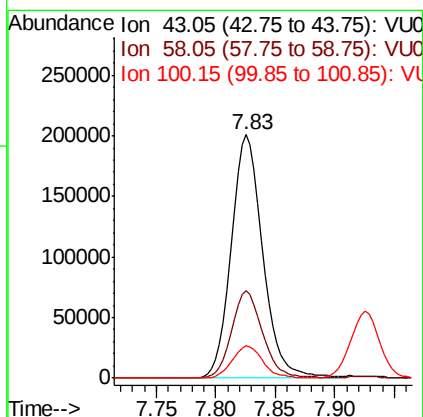
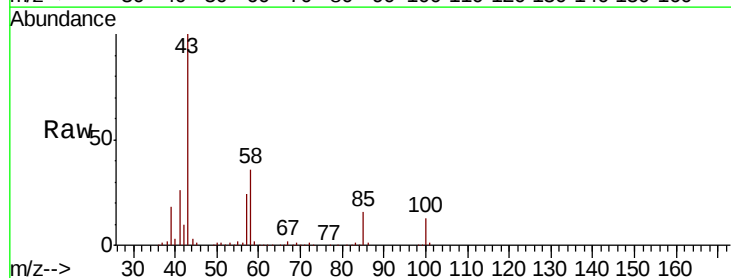
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

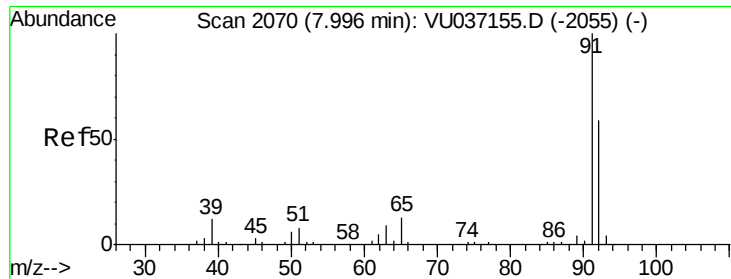
Tot Ion: 75 Resp: 74419
 Ion Ratio Lower Upper
 75 100
 77 31.9 21.1 39.1



#40
 4-Methyl-2-pentanone
 Concen: 53.408 ug/L
 RT: 7.83 min Scan# 2017
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion: 43 Resp: 368924
 Ion Ratio Lower Upper
 43 100
 58 35.4 28.6 42.8
 100 12.9 10.2 15.2





#42

Toluene

Concen: 5.317 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

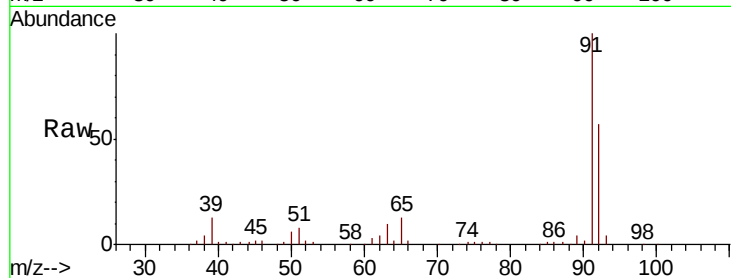
VSTD00530

Tot Ion: 91 Resp: 211761

Ion Ratio Lower Upper

91 100

92 56.7 41.0 76.2



Abundance Ion 91.15 (90.85 to 91.85): VU037155.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU037155.D (-2055) (-)

8.00

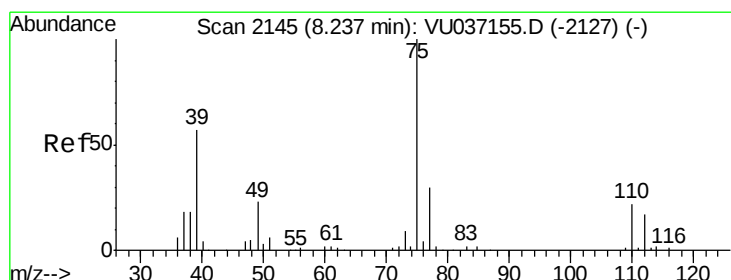
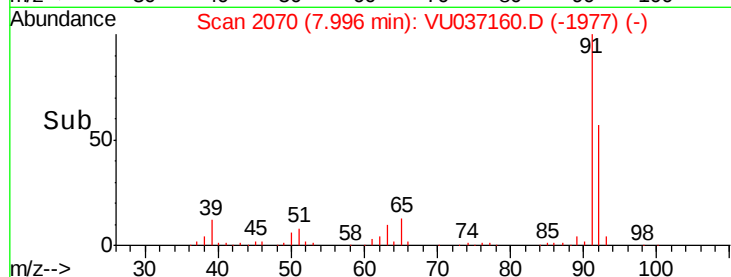
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.682 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037160.D

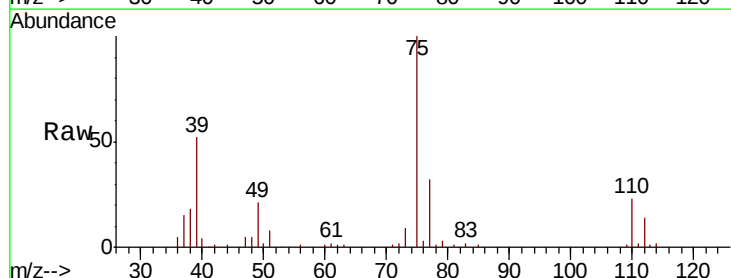
Acq: 11 Mar 2020 10:45

Tgt Ion: 75 Resp: 66413

Ion Ratio Lower Upper

75 100

77 31.8 21.2 39.4



Abundance Ion 75.05 (74.75 to 75.75): VU037155.D (-2127) (-)

Ion 77.05 (76.75 to 77.75): VU037155.D (-2127) (-)

8.24

40000

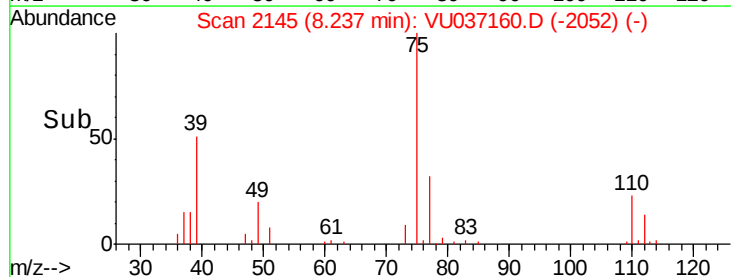
30000

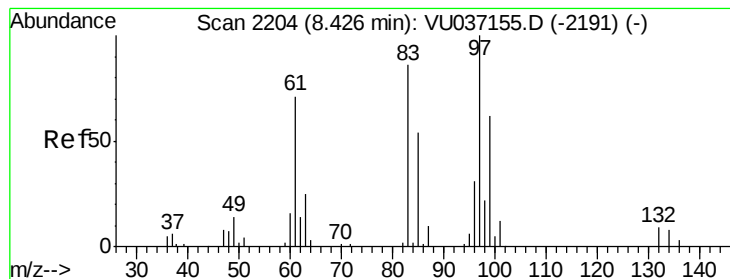
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.223 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

Tot Ion: 97 Resp: 36791

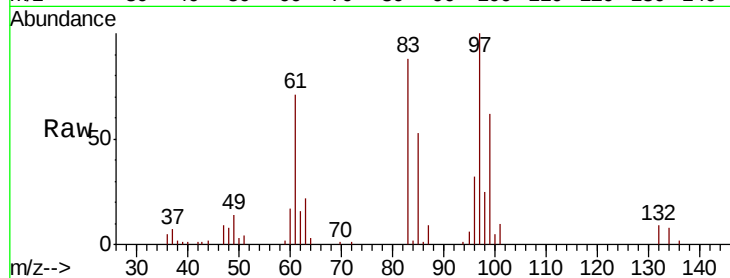
Ion Ratio Lower Upper

97 100

99 62.3 43.6 81.0

83 87.9 60.1 111.7

85 53.1 37.8 70.2

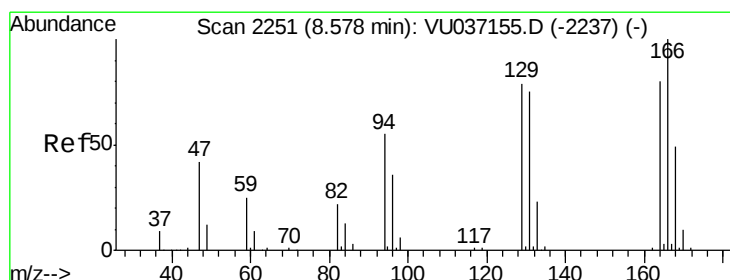
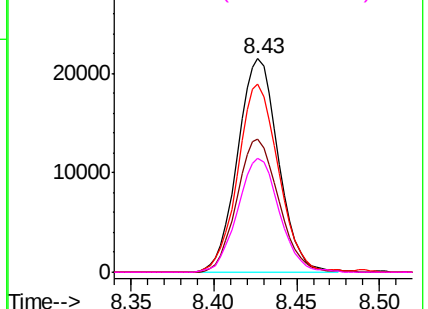
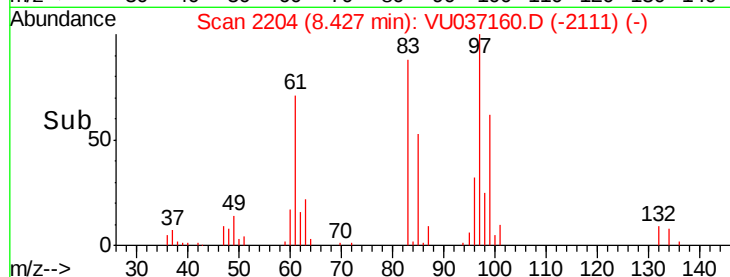


Abundance Ion 96.95 (96.65 to 97.65): VU037160.D (-2111) (-)

Ion 99.05 (98.75 to 99.75): VU037160.D (-2111) (-)

Ion 82.95 (82.65 to 83.65): VU037160.D (-2111) (-)

Ion 85.00 (84.70 to 85.70): VU037160.D (-2111) (-)



#47

Tetrachloroethene

Concen: 5.070 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Tgt Ion: 164 Resp: 39495

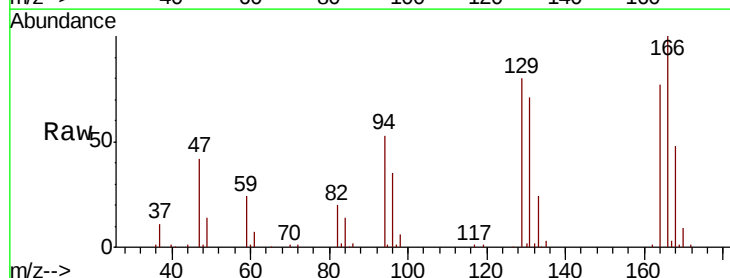
Ion Ratio Lower Upper

164 100

129 103.7 69.8 129.6

131 91.8 66.1 122.8

166 129.9 88.1 163.5

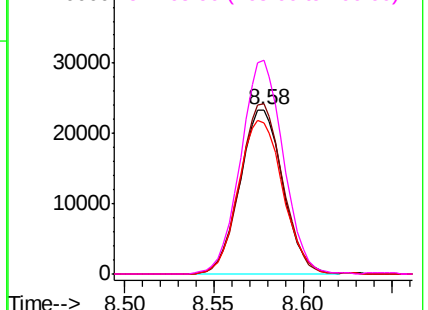
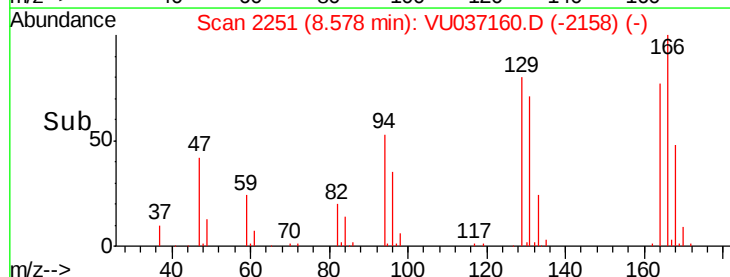


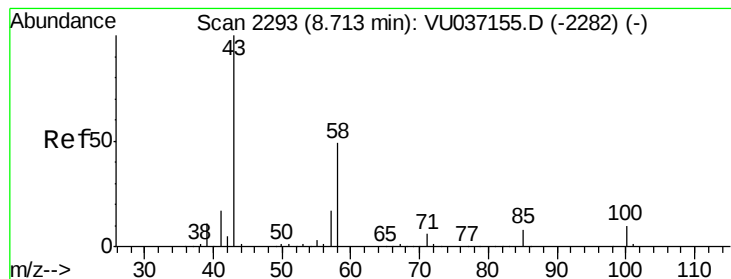
Abundance Ion 163.90 (163.60 to 164.60): VU037160.D (-2158) (-)

Ion 128.95 (128.65 to 129.65): VU037160.D (-2158) (-)

Ion 130.95 (130.65 to 131.65): VU037160.D (-2158) (-)

Ion 165.90 (165.60 to 166.60): VU037160.D (-2158) (-)





#48

2-Hexanone

Concen: 55.499 ug/L

RT: 8.72 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

Tot Ion: 43 Resp: 267283

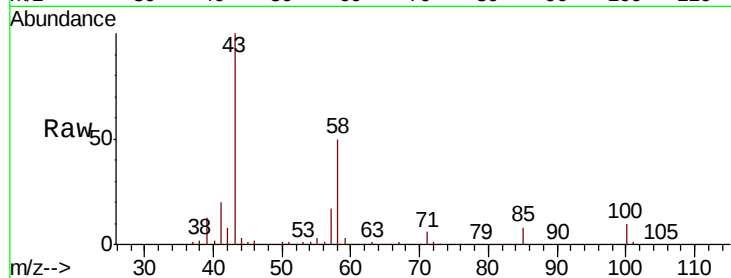
Ion Ratio Lower Upper

43 100

58 49.5 38.6 58.0

57 17.6 13.6 20.4

100 9.7 7.4 11.2

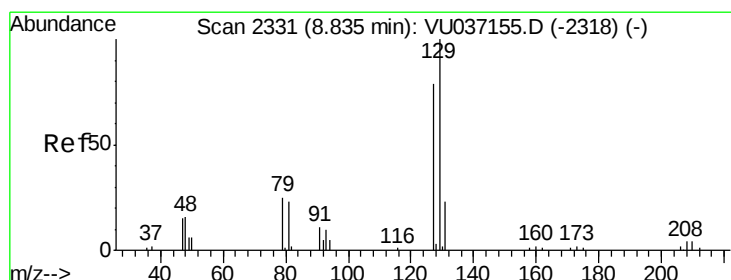
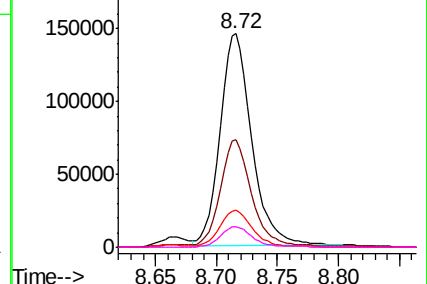
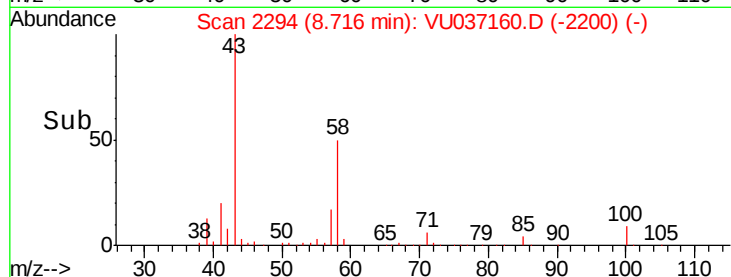


Abundance Ion 43.05 (42.75 to 43.75): VU037155.D (-2282) (-)

Ion 58.05 (57.75 to 58.75): VU037155.D (-2282) (-)

Ion 57.20 (56.90 to 57.90): VU037155.D (-2282) (-)

Ion 100.15 (99.85 to 100.85): VU037155.D (-2282) (-)



#49

Dibromochloromethane

Concen: 5.246 ug/L

RT: 8.84 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU037160.D

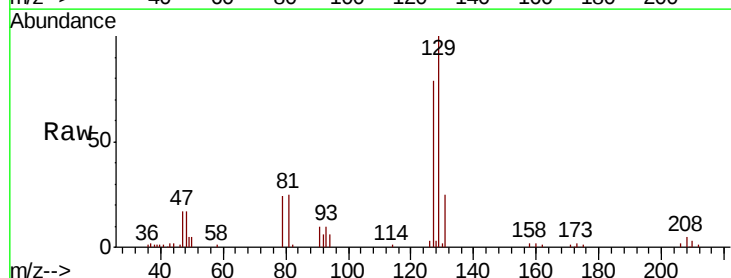
Acq: 11 Mar 2020 10:45

Tgt Ion: 129 Resp: 44503

Ion Ratio Lower Upper

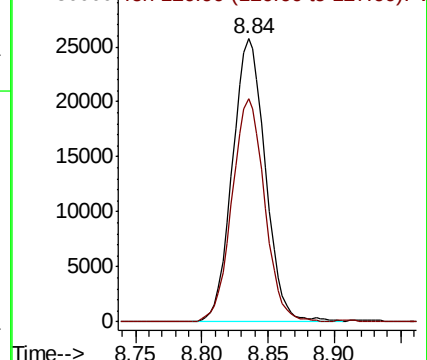
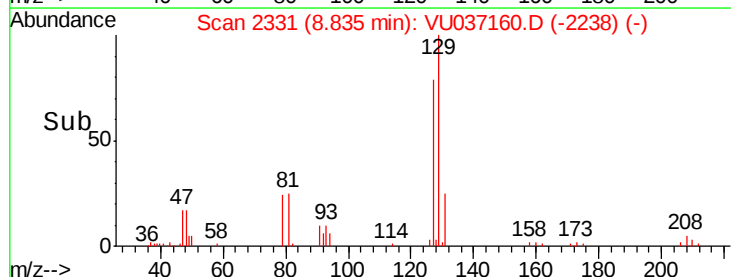
129 100

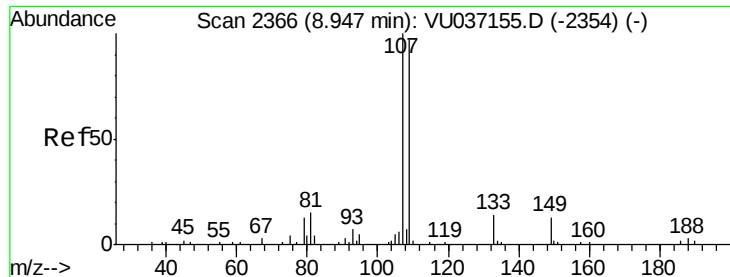
127 78.9 54.9 102.1



Abundance Ion 128.95 (128.65 to 129.65): VU037155.D (-2318) (-)

Ion 126.90 (126.60 to 127.60): VU037155.D (-2318) (-)

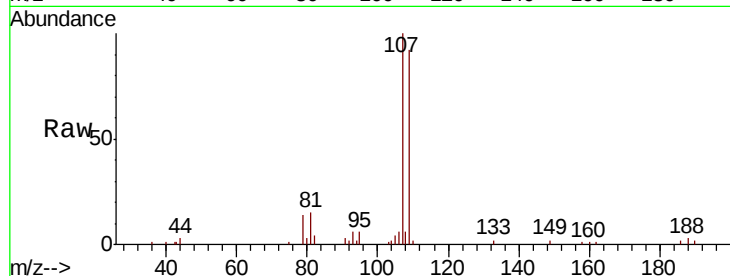




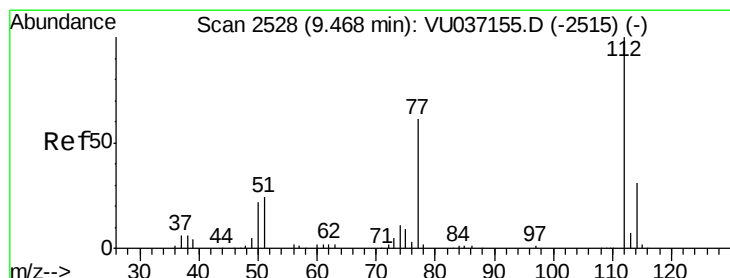
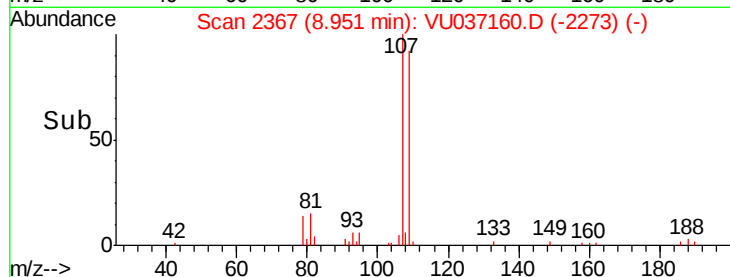
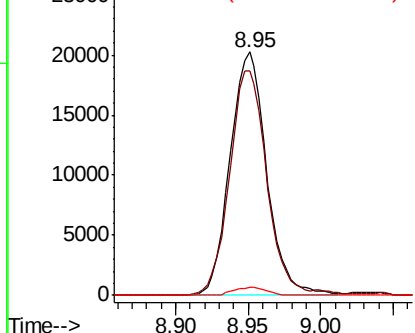
#50
1,2-Dibromoethane
Concen: 5.311 ug/L
RT: 8.95 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

Tot Ion:107 Resp: 35467
Ion Ratio Lower Upper
107 100
109 92.3 68.2 126.6
188 3.1 2.0 3.0#

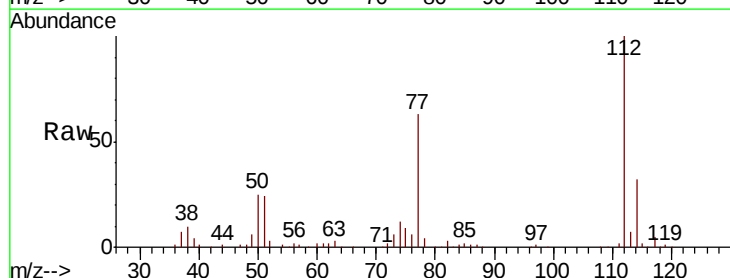


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

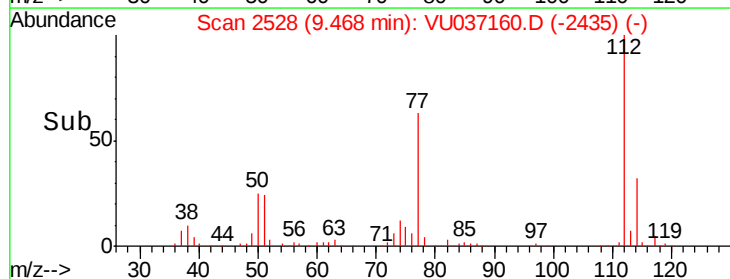
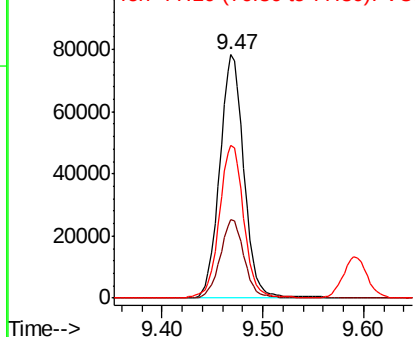


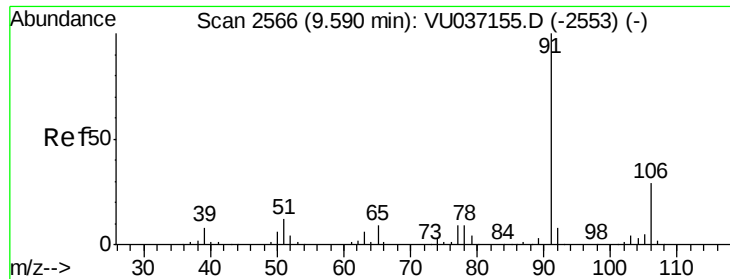
#51
Chlorobenzene
Concen: 5.124 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion:112 Resp: 131394
Ion Ratio Lower Upper
112 100
114 32.2 22.0 40.8
77 62.9 49.4 74.2



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

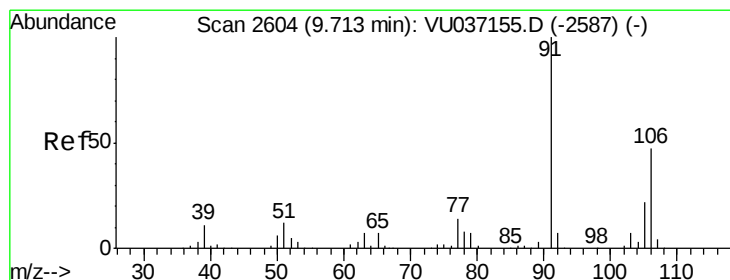
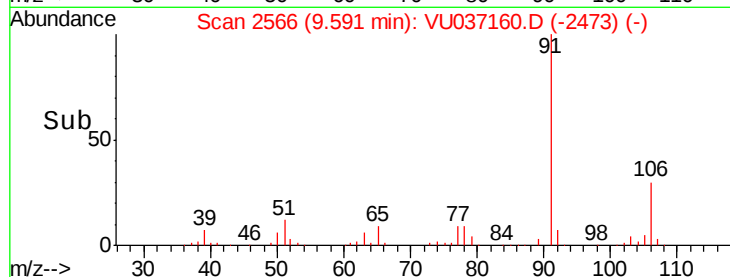
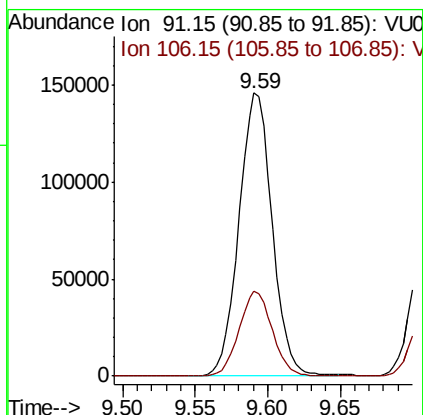
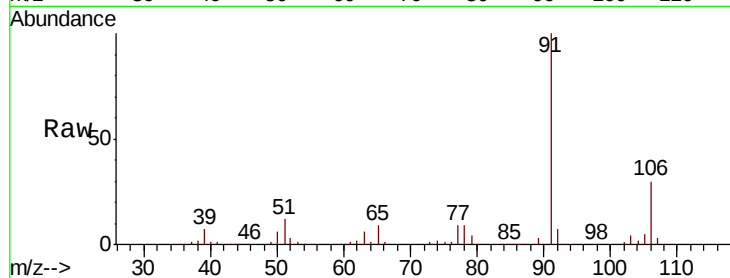




#52
Ethylbenzene
Concen: 5.273 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

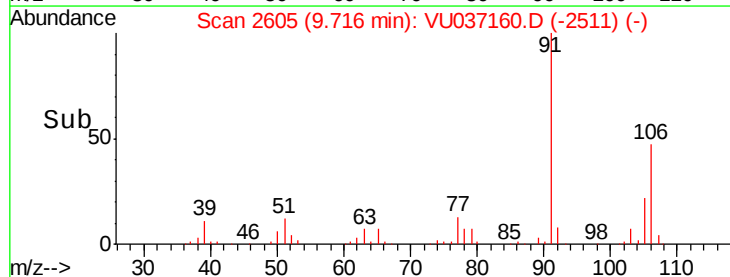
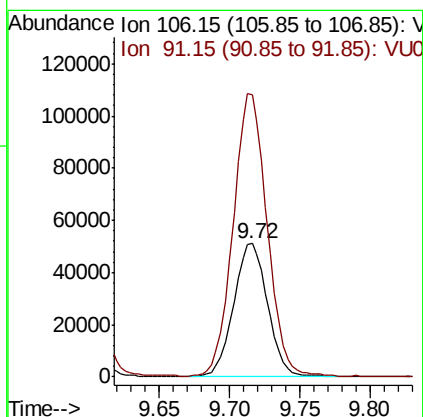
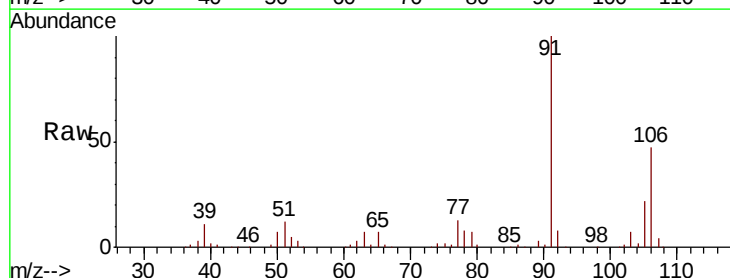
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

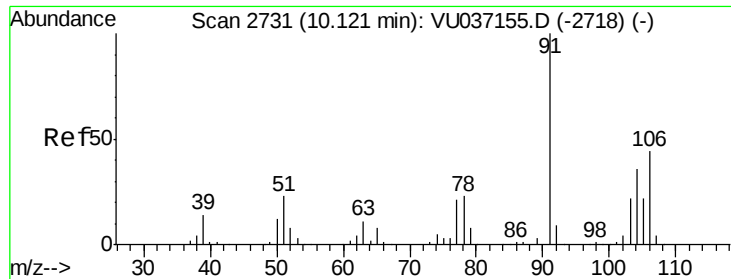
Tot Ion: 91 Resp: 232205
Ion Ratio Lower Upper
91 100
106 29.8 20.4 37.8



#53
m,p-Xylene
Concen: 5.461 ug/L
RT: 9.72 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion: 106 Resp: 86455
Ion Ratio Lower Upper
106 100
91 212.2 150.4 279.4

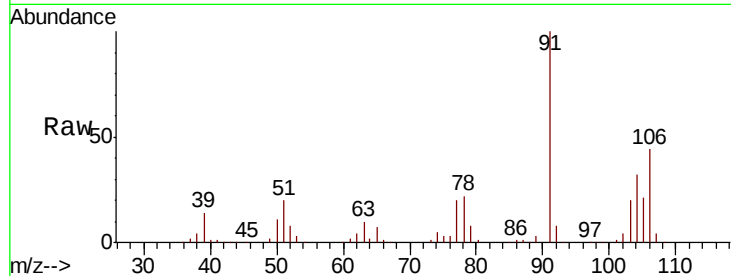




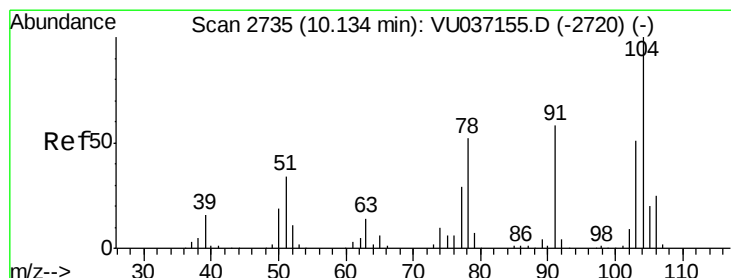
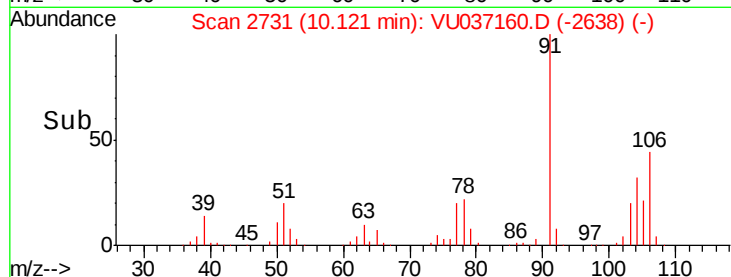
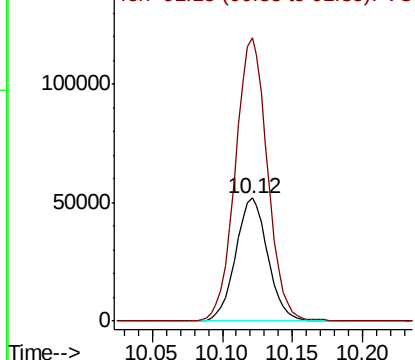
#54
o-Xylene
Concen: 5.404 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Instrument :
MSVOA_U
ClientSampled :
VSTD00530

Tot Ion:106 Resp: 83403
Ion Ratio Lower Upper
106 100
91 229.7 160.6 298.2

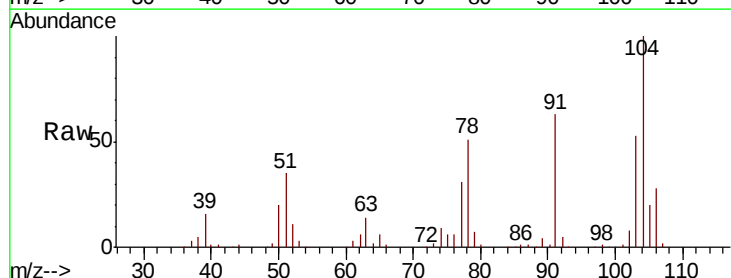


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

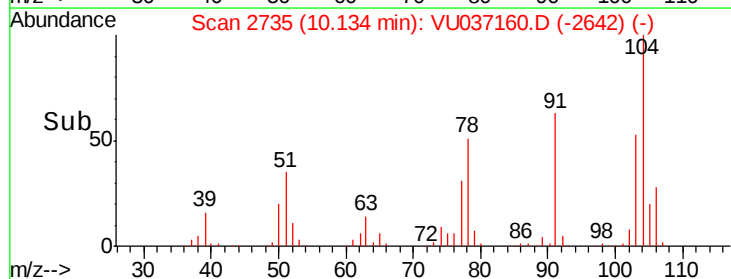
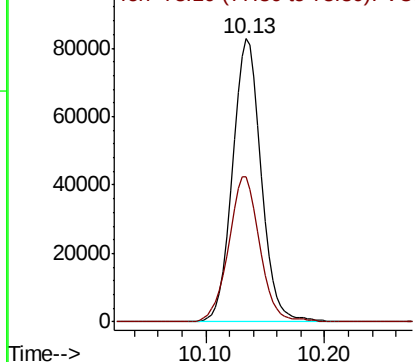


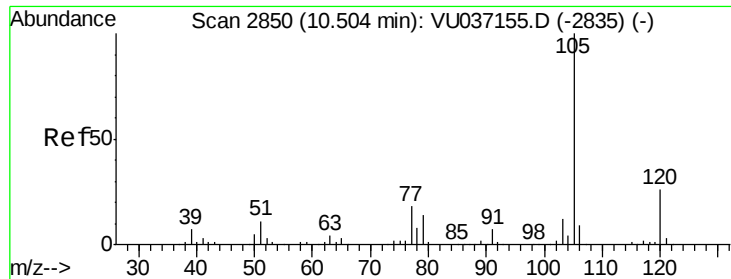
#55
Styrene
Concen: 5.449 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU037160.D
Acq: 11 Mar 2020 10:45

Tgt Ion:104 Resp: 137930
Ion Ratio Lower Upper
104 100
78 51.2 36.2 67.2



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.477 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

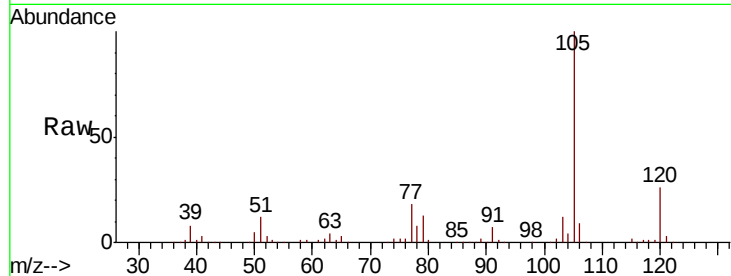
Tot Ion:105 Resp: 226846

Ion Ratio Lower Upper

105 100

120 26.0 20.5 30.7

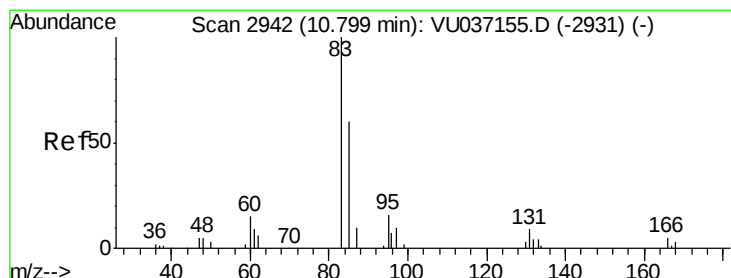
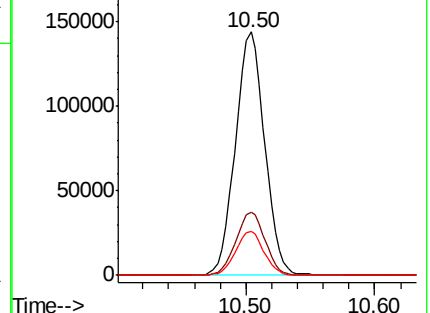
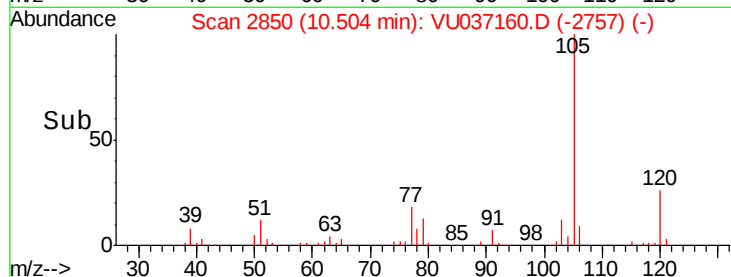
77 17.6 14.2 21.4



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: 5.447 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

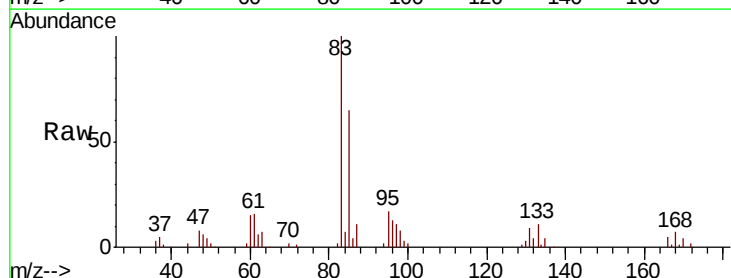
Tgt Ion: 83 Resp: 47375

Ion Ratio Lower Upper

83 100

85 65.1 43.0 80.0

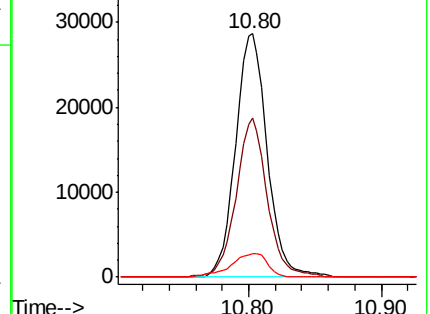
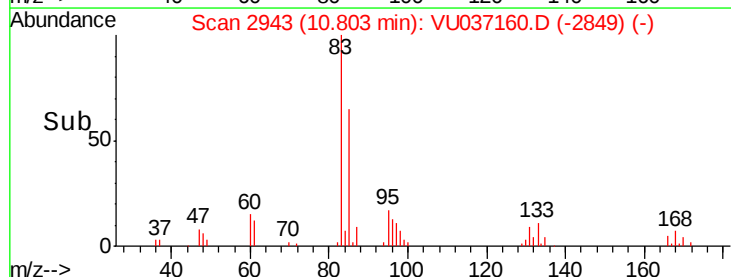
131 9.4 8.2 12.2

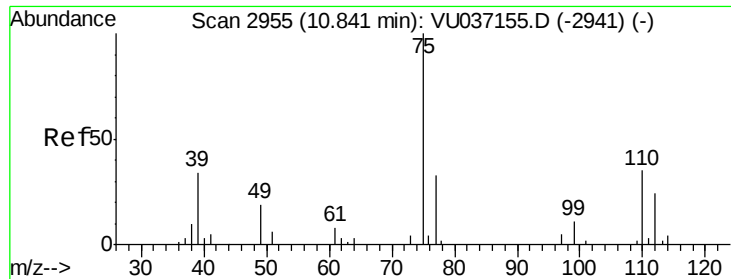


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.975 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

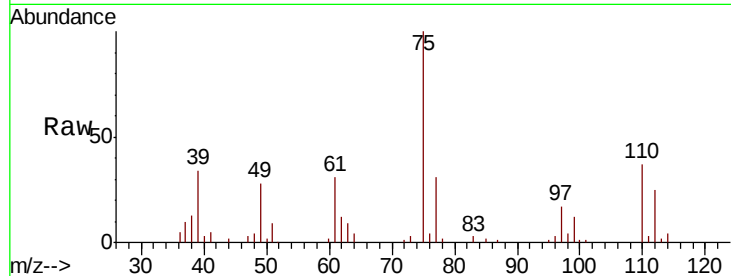
VSTD00530

Tot Ion: 75 Resp: 34754

Ion Ratio Lower Upper

75 100

77 33.2 27.4 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU037155.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU037155.D (-2941) (-)

10.84

25000

20000

15000

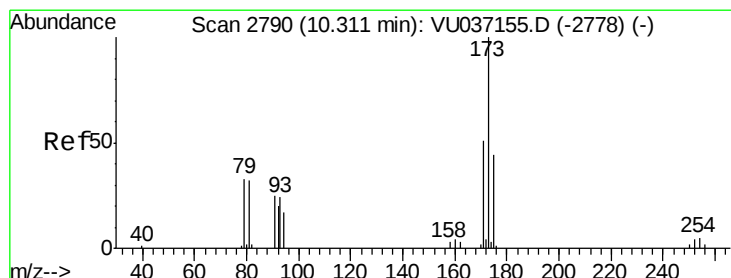
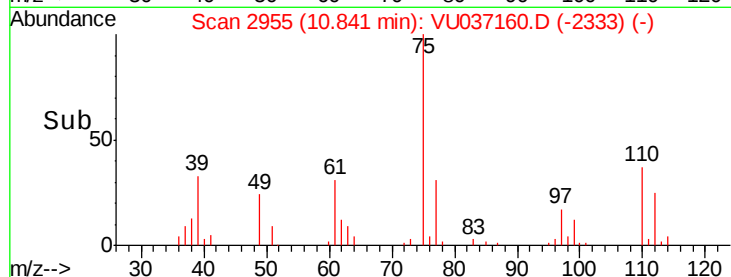
10000

5000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 5.361 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

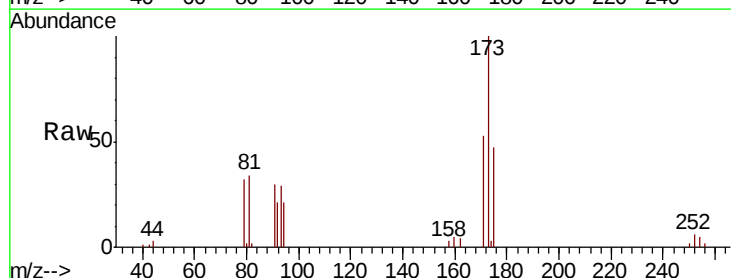
Tgt Ion: 173 Resp: 24598

Ion Ratio Lower Upper

173 100

175 47.8 37.4 56.2

254 4.5 3.5 5.3



Abundance Ion 172.90 (172.60 to 173.60): VU037155.D (-2778) (-)

Ion 174.90 (174.60 to 175.60): VU037155.D (-2778) (-)

Ion 253.75 (253.45 to 254.45): VU037155.D (-2778) (-)

10.31

15000

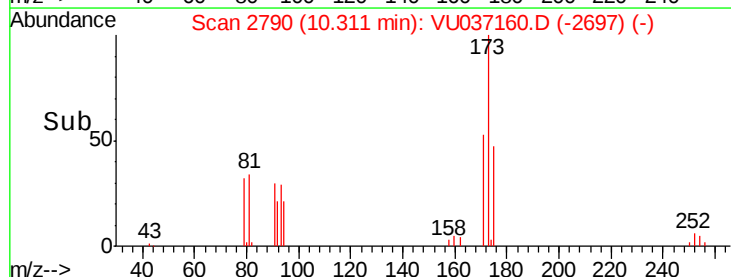
10000

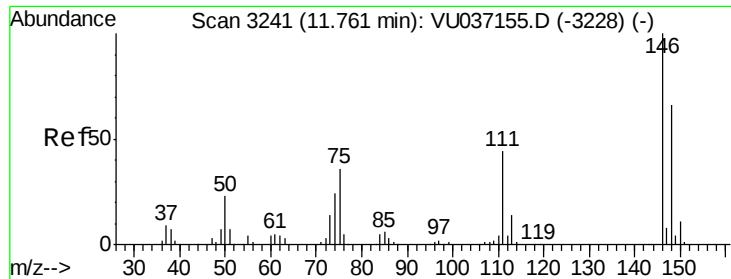
5000

0

Time-->

10.25 10.30 10.35

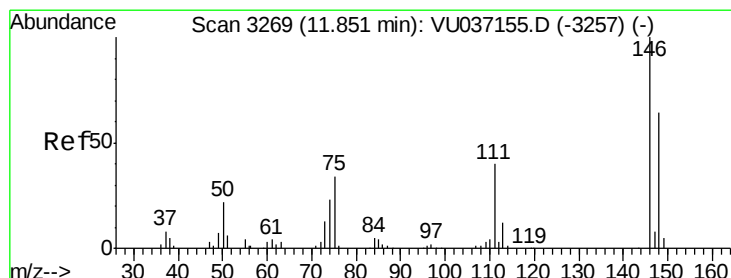
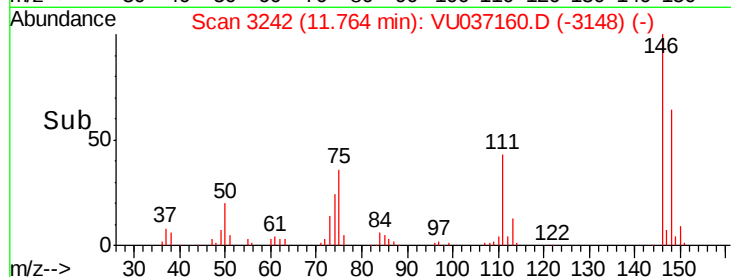
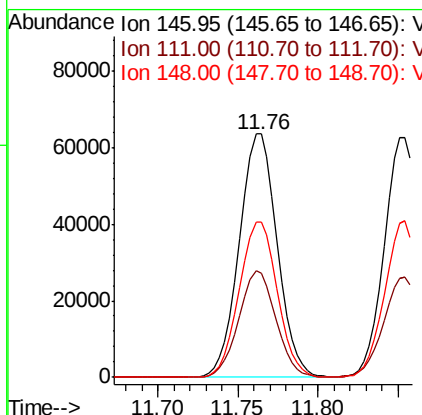
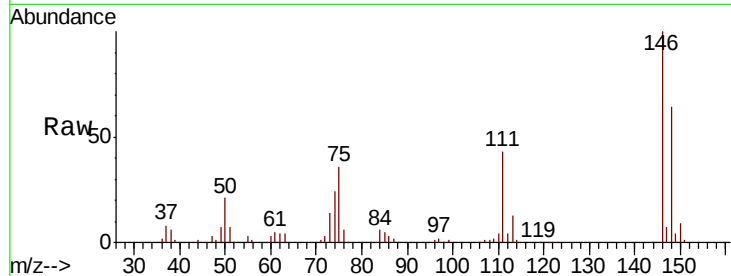




#62
 1,3-Dichlorobenzene
 Concen: 5.210 ug/L
 RT: 11.76 min Scan# 3242
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

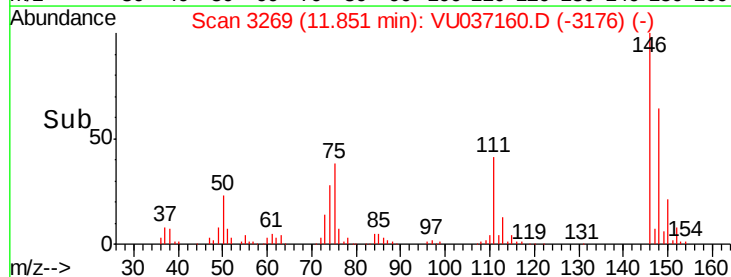
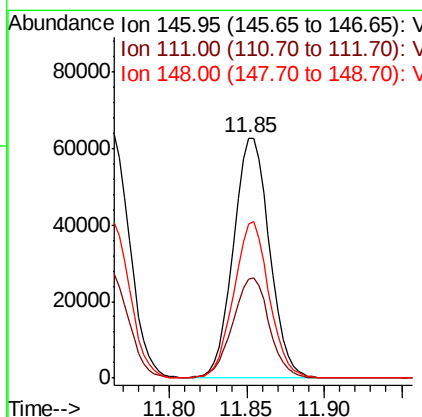
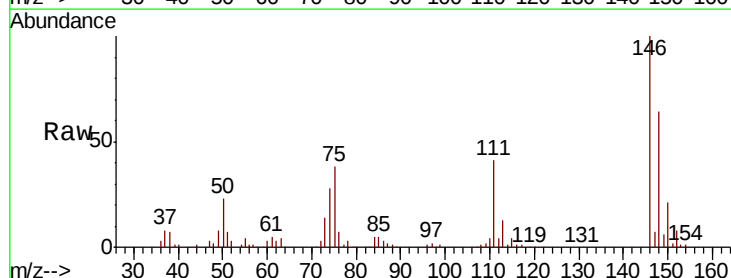
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

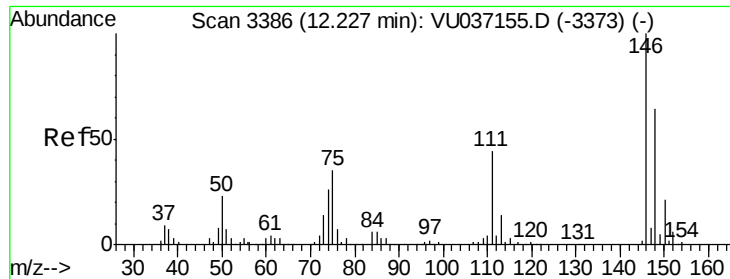
Tot Ion:146 Resp: 102656
 Ion Ratio Lower Upper
 146 100
 111 42.6 30.6 56.8
 148 63.9 46.2 85.8



#63
 1,4-Dichlorobenzene
 Concen: 5.200 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion:146 Resp: 101760
 Ion Ratio Lower Upper
 146 100
 111 41.2 28.4 52.8
 148 64.3 44.9 83.5

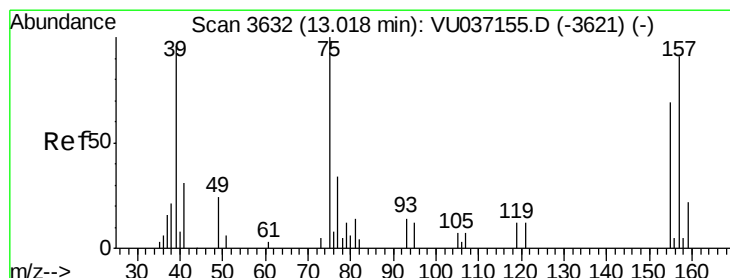
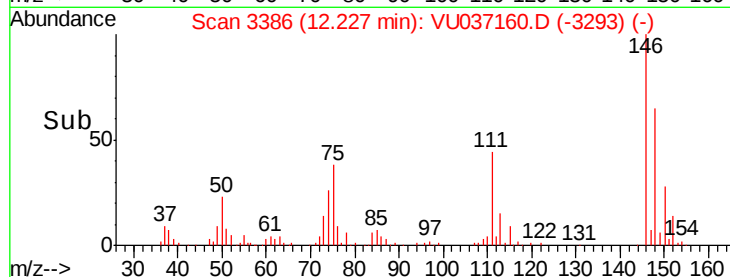
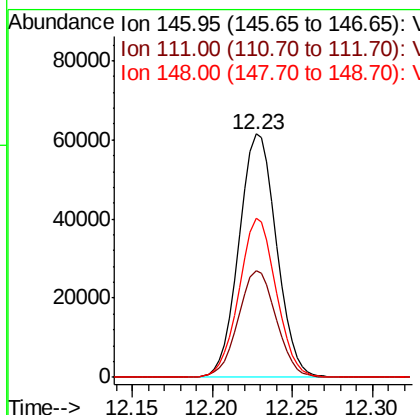
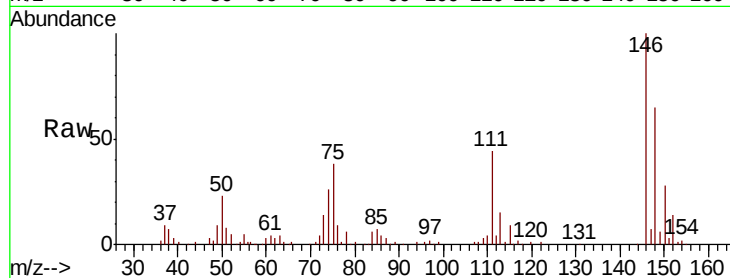




#65
 1,2-Dichlorobenzene
 Concen: 5.242 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

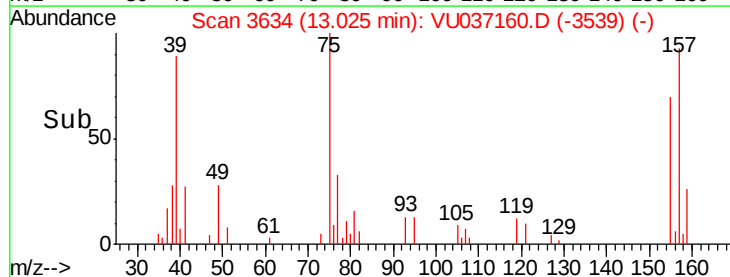
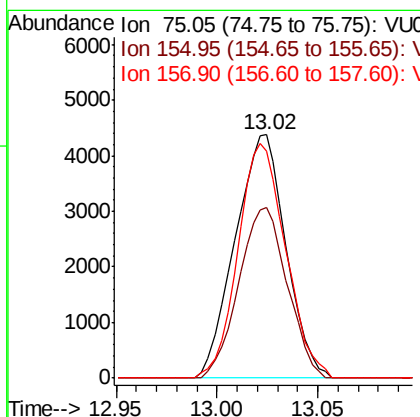
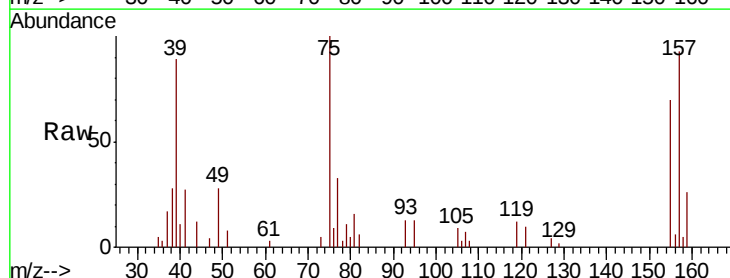
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

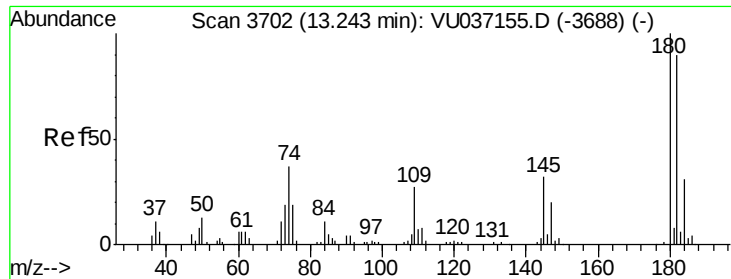
Tot Ion:146 Resp: 97929
 Ion Ratio Lower Upper
 146 100
 111 44.0 35.5 53.3
 148 65.1 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.361 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.01 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion: 75 Resp: 7690
 Ion Ratio Lower Upper
 75 100
 155 70.3 55.5 83.3
 157 93.3 73.1 109.7

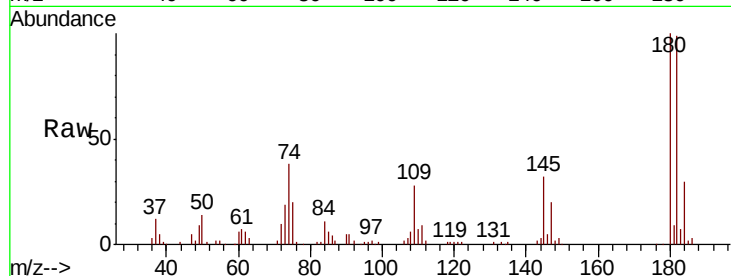




#67
 1,3,5-Trichlorobenzene
 Concen: 5.232 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.3	73.6	110.4
184	30.9	24.1	36.1
145	33.6	26.3	39.5



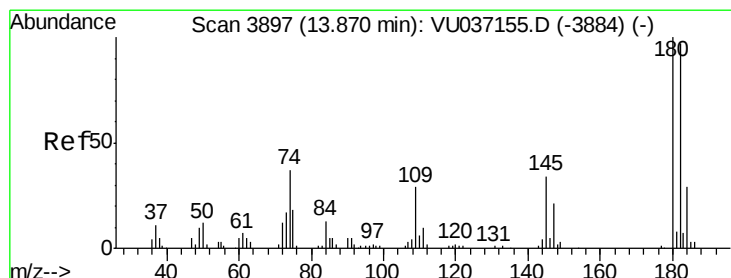
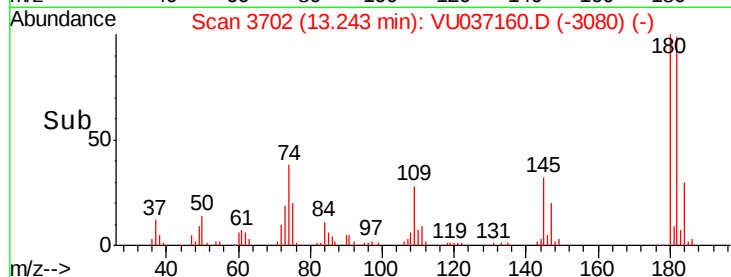
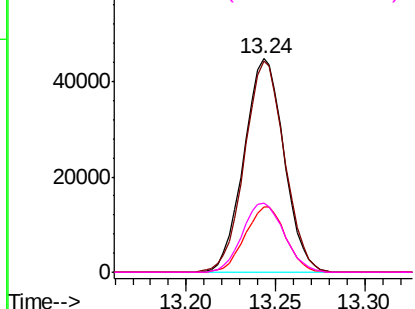
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

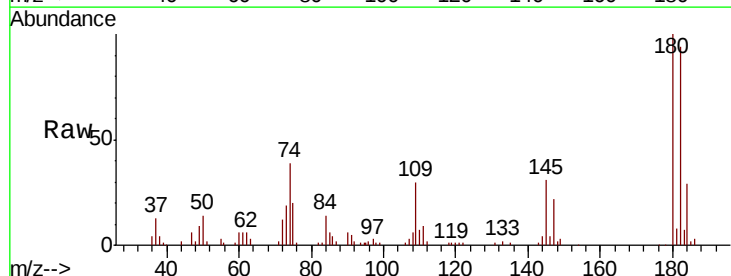
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.219 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU037160.D
 Acq: 11 Mar 2020 10:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.7	115.1
145	31.5	26.6	39.8

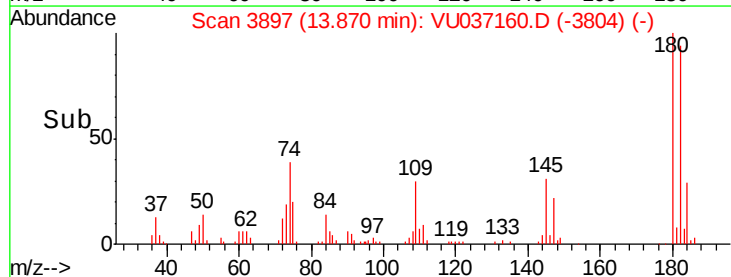
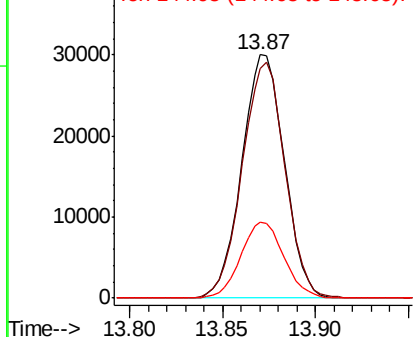


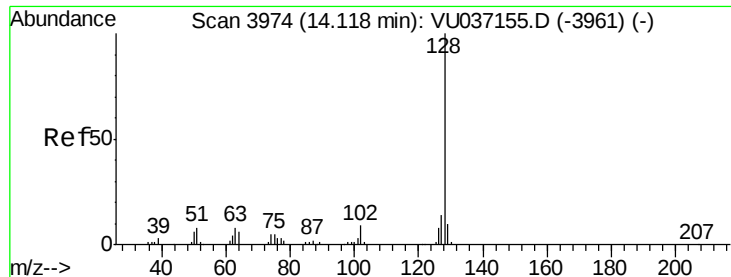
Abundance

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: 4.903 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

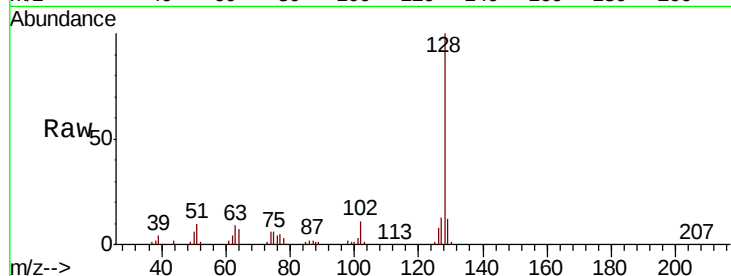
Tot Ion:128 Resp: 64065

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

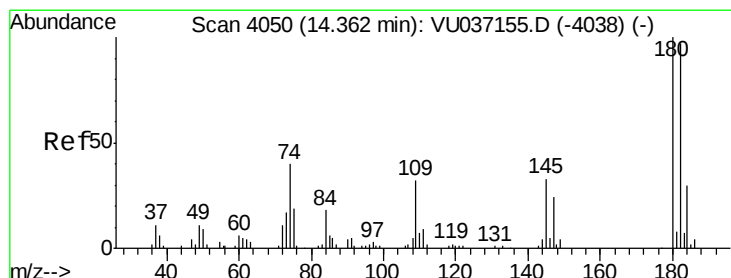
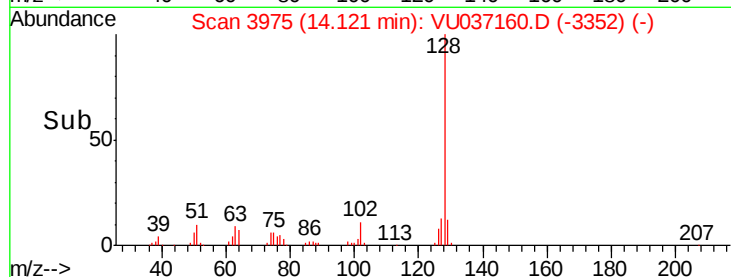
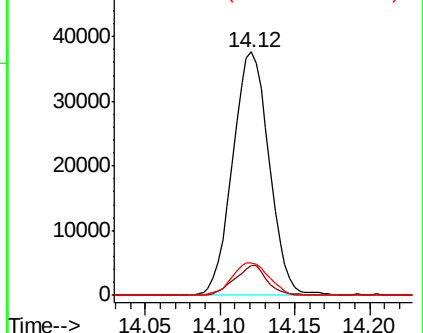
127 13.6 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.374 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.00 min

Lab File: VU037160.D

Acq: 11 Mar 2020 10:45

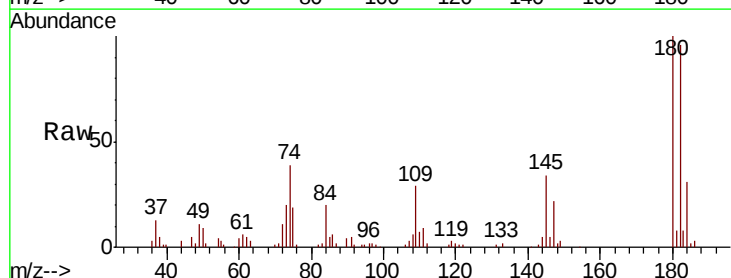
Tgt Ion:180 Resp: 46129

Ion Ratio Lower Upper

180 100

182 96.8 77.0 115.6

145 34.2 28.2 42.4



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

