

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037866.D
 Acq On : 24 Apr 2020 09:27
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD05048

Quant Time: Apr 25 01:04:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 24 09:38:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	554038	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	526661	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	267145	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	203503	42.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.08%
7) Chloroethane-d5	1.93	69	163268	43.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.04%
11) 1,1-Dichloroethene-d2	2.59	63	330902	42.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.46%
21) 2-Butanone-d5	4.66	46	334837	87.30	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.30%
24) Chloroform-d	5.10	84	324654	44.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.06%
26) 1,2-Dichloroethane-d4	5.74	65	218758	42.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.70%
32) Benzene-d6	5.76	84	665946	44.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.42%
36) 1,2-Dichloropropane-d6	6.72	67	221766	44.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.04%
41) Toluene-d8	7.93	98	610146	44.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.14%
43) trans-1,3-Dichloropropene-	8.20	79	114862	44.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.60%
47) 2-Hexanone-d5	8.65	63	247652	91.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.33%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	310247	44.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.52%
64) 1,2-Dichlorobenzene-d4	12.21	152	223642	43.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	190611	41.701	ug/L 99
3) Chloromethane	1.54	50	206122	41.375	ug/L 99
5) Vinyl chloride	1.62	62	223188	40.604	ug/L 100
6) Bromomethane	1.87	94	95724	42.087	ug/L 98
8) Chloroethane	1.95	64	129548	41.947	ug/L 97
9) Trichlorofluoromethane	2.16	101	243405	41.649	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	137172	40.277	ug/L 97
12) 1,1-Dichloroethene	2.60	96	139860	41.580	ug/L 95
13) Acetone	2.65	43	191955	83.879	ug/L 98
14) Carbon disulfide	2.82	76	471745	39.216	ug/L 99
15) Methyl Acetate	2.98	43	219730	39.726	ug/L 100
16) Methylene chloride	3.08	84	165260	41.347	ug/L 96
17) trans-1,2-Dichloroethene	3.39	96	151749	40.349	ug/L 96
18) Methyl tert-butyl Ether	3.40	73	531233	41.006	ug/L 100
19) 1,1-Dichloroethane	3.91	63	310446	40.949	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	166864	40.522	ug/L 99
22) 2-Butanone	4.75	43	326624	81.509	ug/L 99

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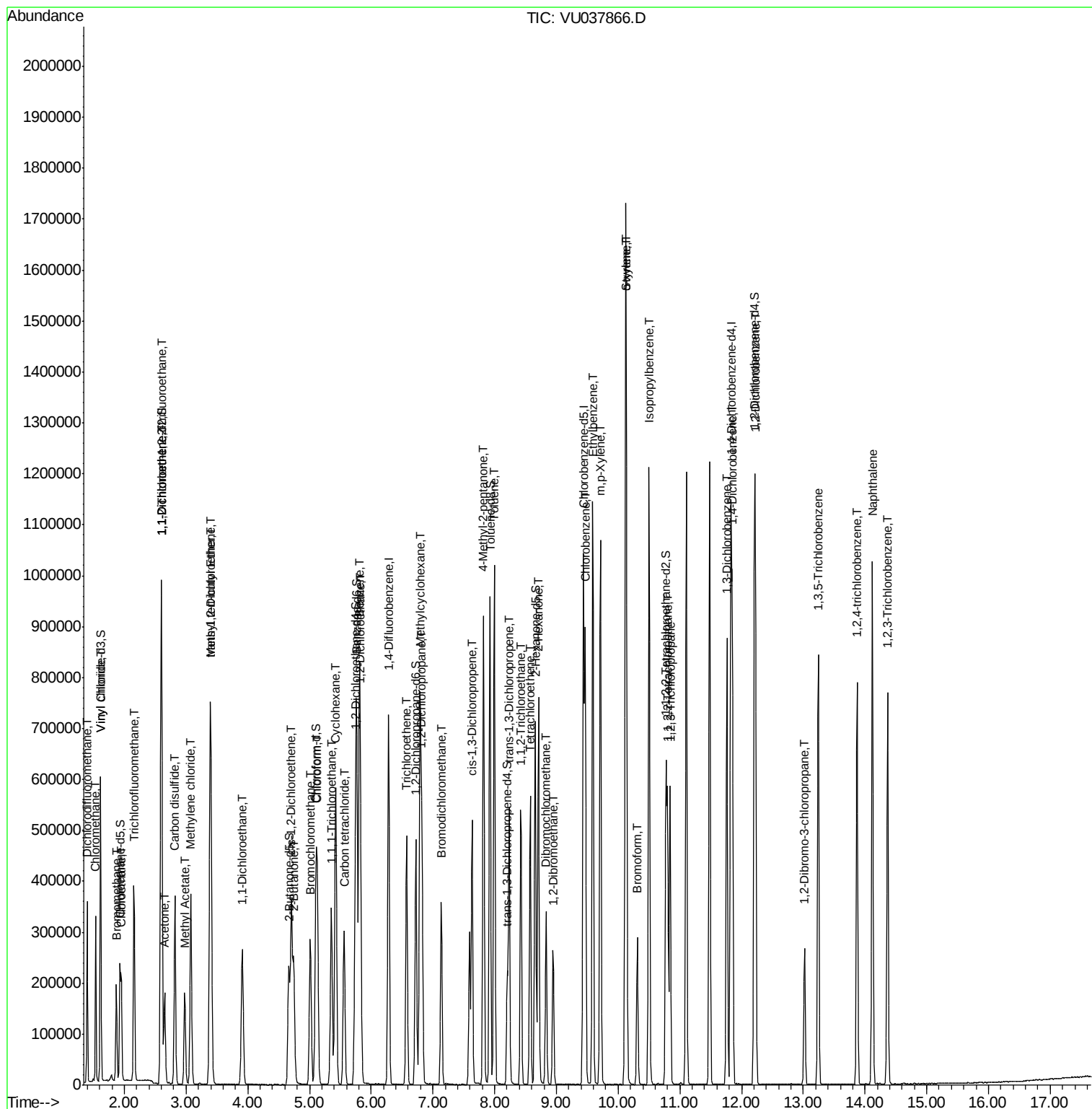
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	83391	41.909	ug/L	99
25) Chloroform	5.13	83	293807	41.418	ug/L	99
27) 1,2-Dichloroethane	5.83	62	249490	41.065	ug/L	100
29) Cyclohexane	5.42	56	309019	41.941	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	250988	42.673	ug/L	99
31) Carbon tetrachloride	5.56	117	203285	42.754	ug/L	100
33) Benzene	5.81	78	672655	42.080	ug/L	100
34) Trichloroethene	6.57	95	163930	41.808	ug/L	99
35) Methylcyclohexane	6.79	83	292503	42.603	ug/L	99
37) 1,2-Dichloropropane	6.82	63	184394	42.235	ug/L	99
38) Bromodichloromethane	7.13	83	227392	43.109	ug/L	96
39) cis-1,3-Dichloropropene	7.63	75	296949	42.481	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	619803	81.631	ug/L	99
42) Toluene	8.00	91	708678	42.285	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	287283	42.577	ug/L	96
45) 1,1,2-Trichloroethane	8.43	97	160191	42.060	ug/L	99
46) Tetrachloroethene	8.58	164	121942	42.549	ug/L	99
48) 2-Hexanone	8.71	43	485797	80.921	ug/L	99
49) Dibromochloromethane	8.83	129	169416	42.599	ug/L	100
50) 1,2-Dibromoethane	8.95	107	173013	41.936	ug/L	99
51) Chlorobenzene	9.47	112	434017	41.634	ug/L	98
52) Ethylbenzene	9.59	91	793758	42.292	ug/L	100
53) m,p-Xylene	9.71	106	297543	42.106	ug/L	99
54) o-xylene	10.12	106	290818	42.080	ug/L	98
55) Styrene	10.13	104	505808	42.558	ug/L	99
56) Isopropylbenzene	10.50	105	775134	42.379	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	281991	41.630	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	242801	41.399	ug/L	98
61) Bromoform	10.31	173	127129	42.285	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	343466	41.063	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	345668	40.945	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	336096	41.351	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	71214	39.314	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	249143	40.987	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	232464	39.321	ug/L	100
69) Naphthalene	14.12	128	784767	37.018	ug/L	100
70) 1,2,3-Trichlorobenzene	14.37	180	232541	39.834	ug/L	98

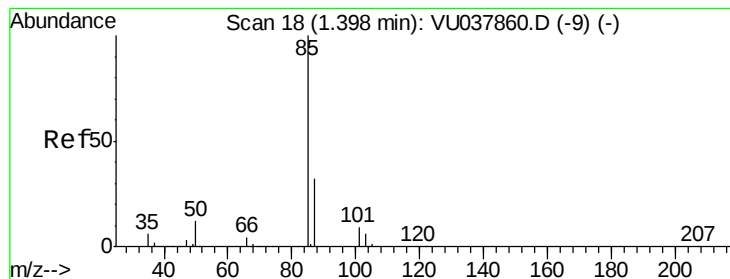
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#2

Dichlorodifluoromethane

Concen: 41.701 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

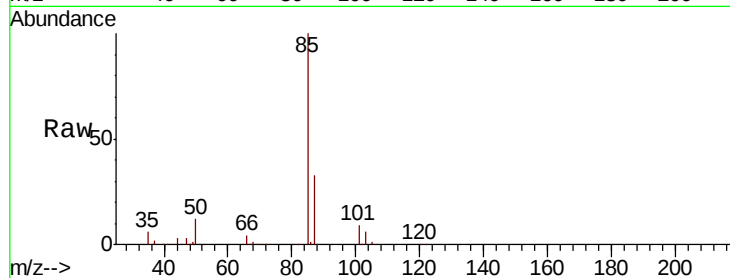
VSTD05048

Tot Ion: 85 Resp: 190611

Ion Ratio Lower Upper

85 100

87 32.6 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU037866.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037866.D (-9) (-)

1.40

200000

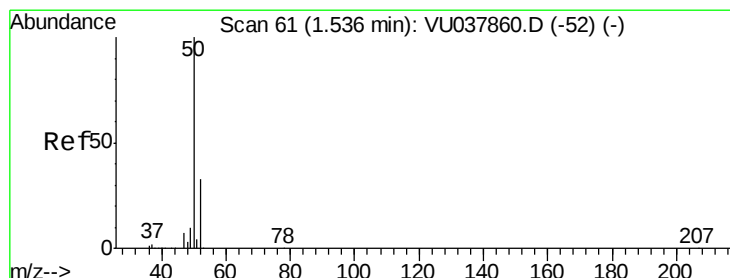
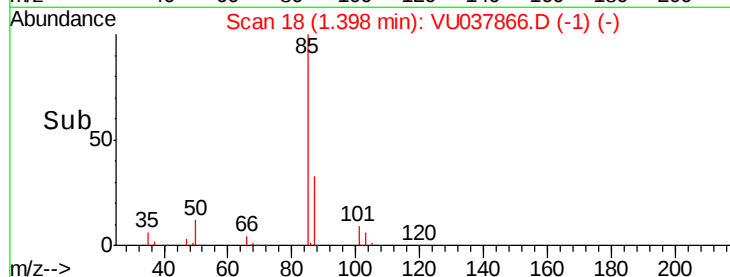
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 41.375 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037866.D

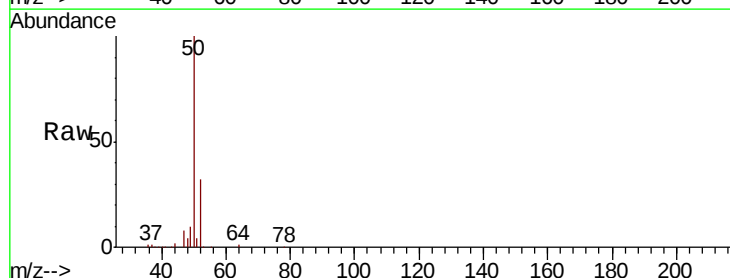
Acq: 24 Apr 2020 09:27

Tgt Ion: 50 Resp: 206122

Ion Ratio Lower Upper

50 100

52 32.4 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU037866.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037866.D (-1) (-)

1.54

200000

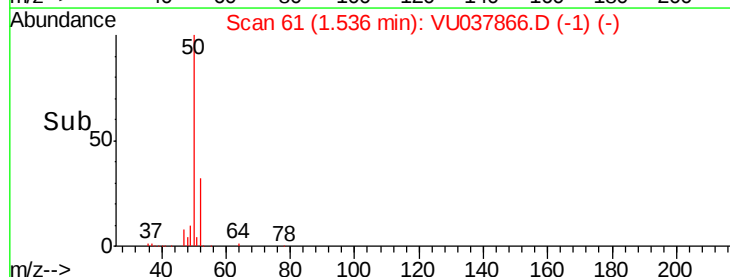
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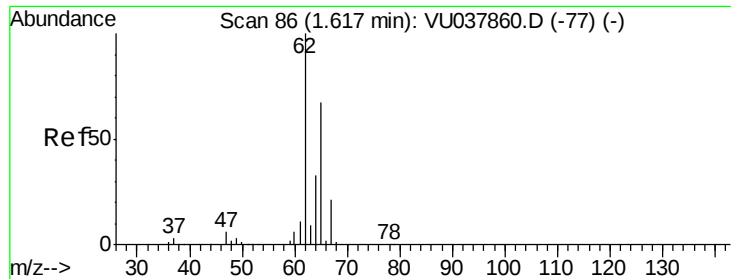
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50000

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Time-->





#5

Vinyl chloride

Concen: 40.604 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

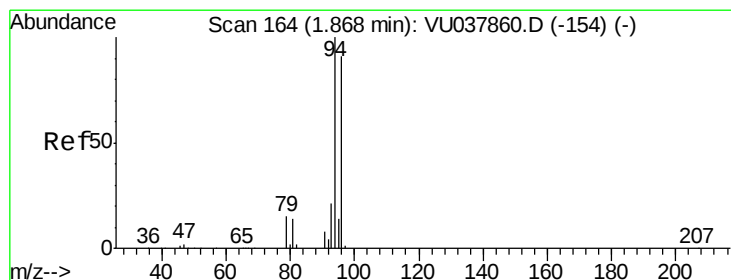
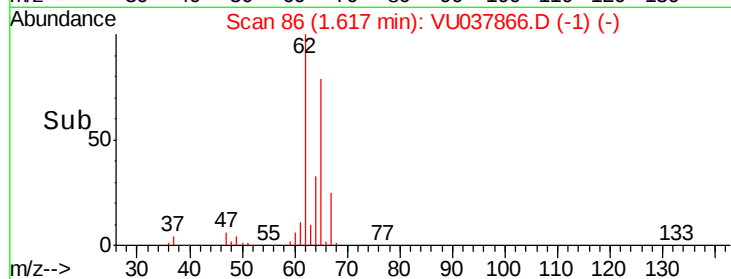
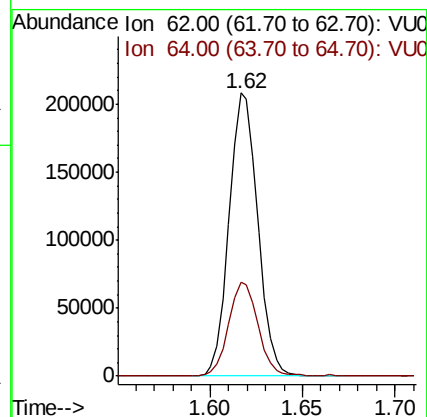
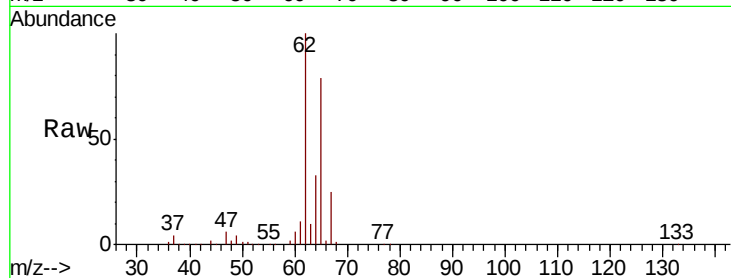
VSTD05048

Tot Ion: 62 Resp: 223188

Ion Ratio Lower Upper

62 100

64 33.3 23.2 43.0



#6

Bromomethane

Concen: 42.087 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037866.D

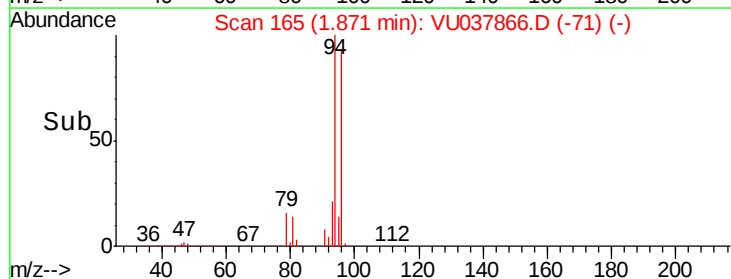
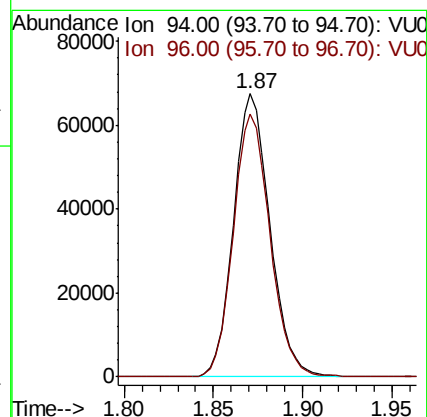
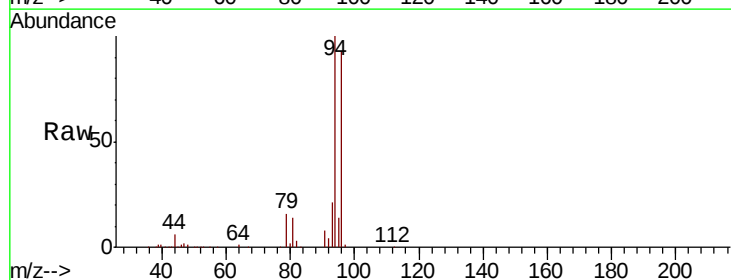
Acq: 24 Apr 2020 09:27

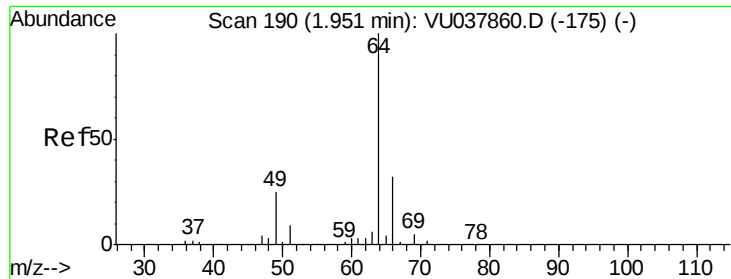
Tgt Ion: 94 Resp: 95724

Ion Ratio Lower Upper

94 100

96 93.0 63.9 118.7

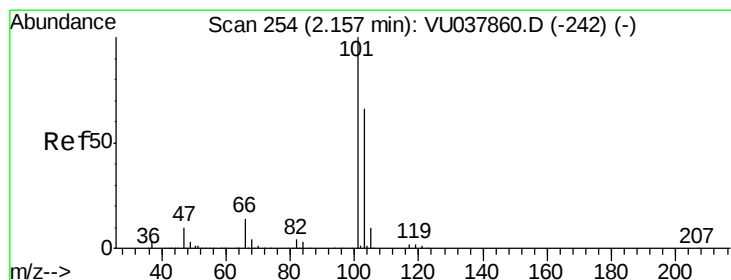
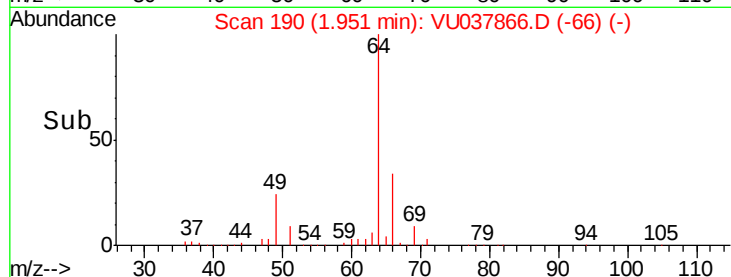
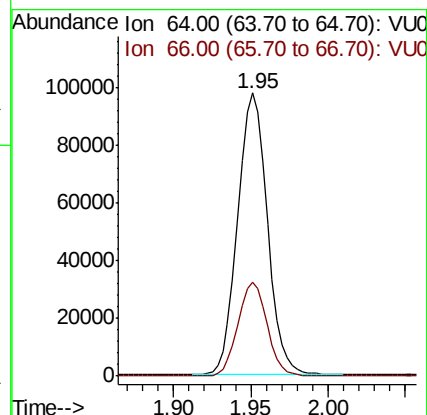
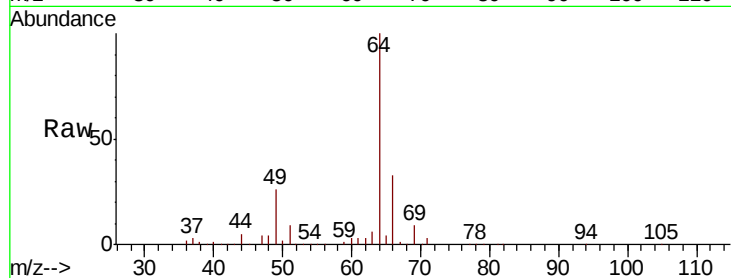




#8
Chloroethane
Concen: 41.947 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

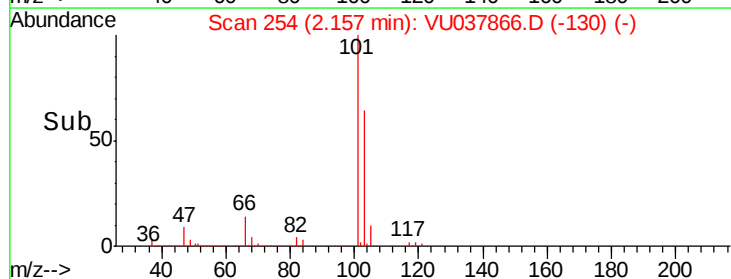
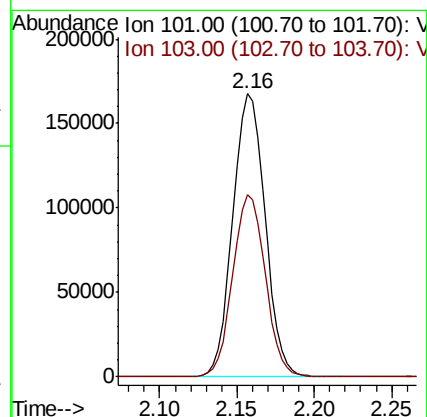
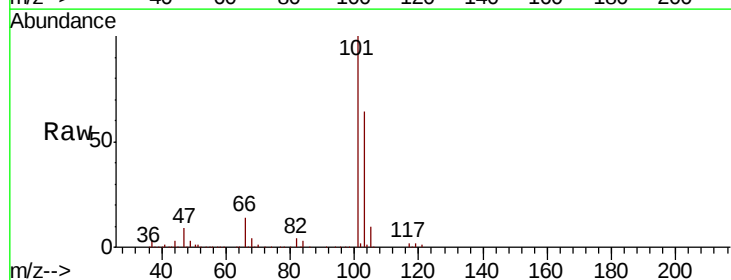
Instrument :
MSVOA_X
ClientSampled :
VSTD05048

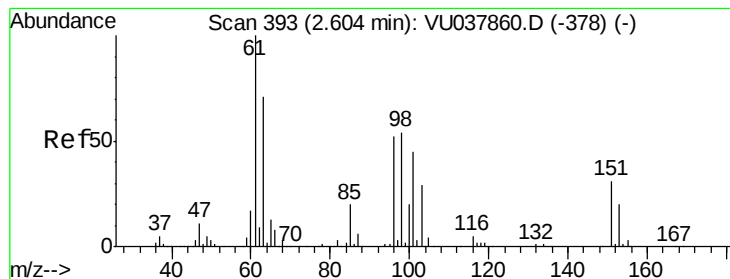
Tot Ion: 64 Resp: 129548
Ion Ratio Lower Upper
64 100
66 33.3 22.3 41.3



#9
Trichlorofluoromethane
Concen: 41.649 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Tgt Ion:101 Resp: 243405
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.4





#10

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

Concen: 40.277 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

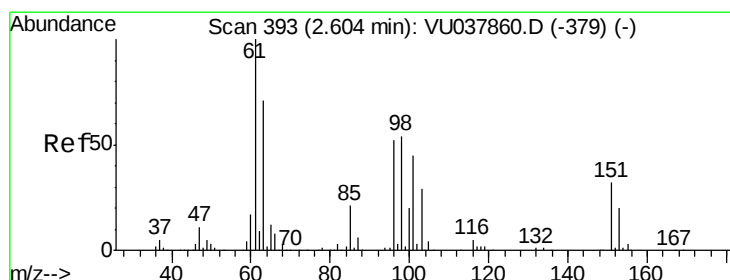
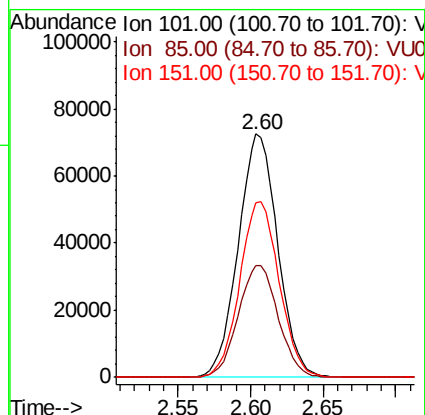
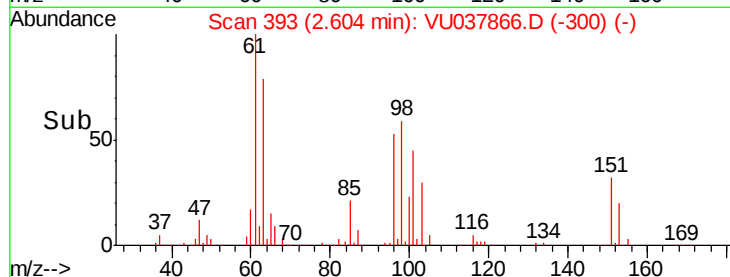
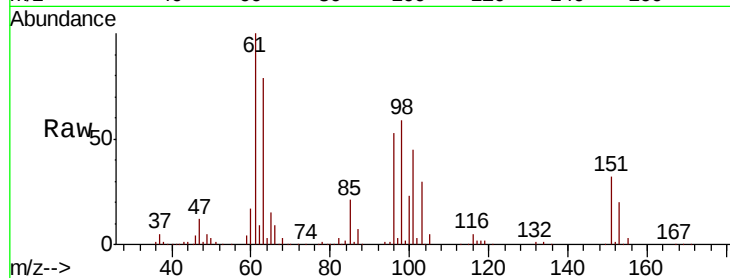
Tot Ion:101 Resp: 137172

Ion Ratio Lower Upper

101 100

85 46.5 36.2 54.4

151 72.2 55.5 83.3



#12

1,1-Dichloroethene

Concen: 41.580 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

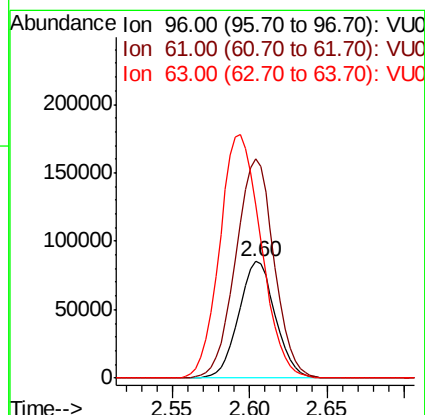
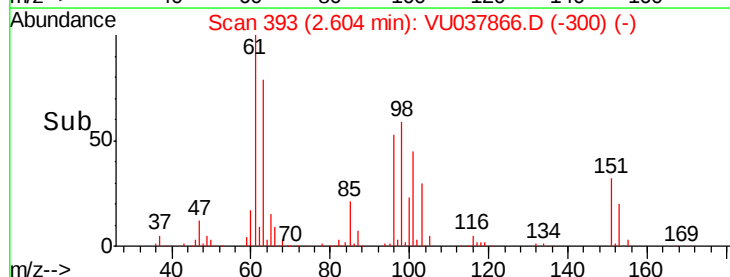
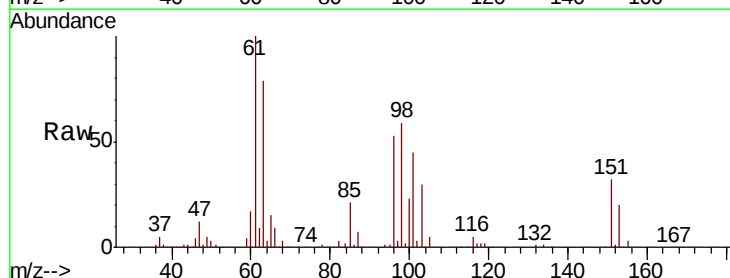
Tgt Ion: 96 Resp: 139860

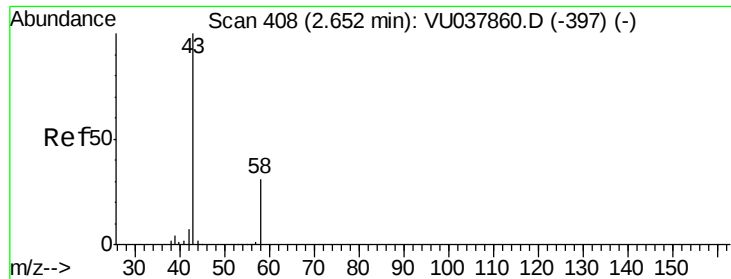
Ion Ratio Lower Upper

96 100

61 187.3 134.1 249.0

63 148.2 96.5 179.1





#13

Acetone

Concen: 83.879 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

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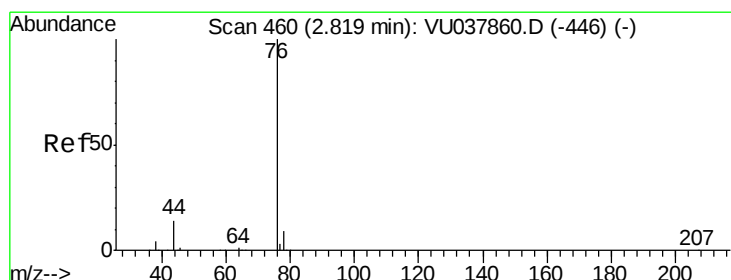
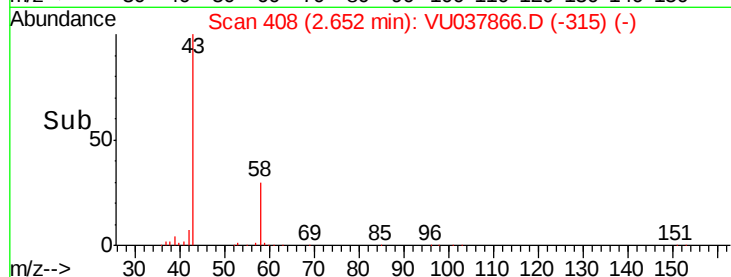
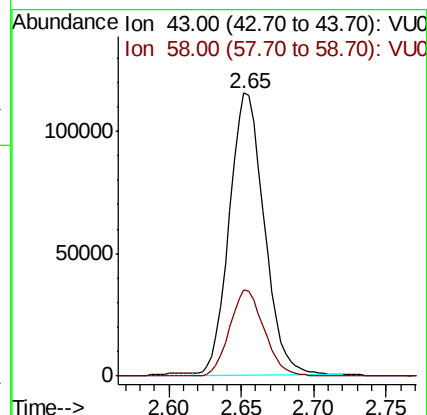
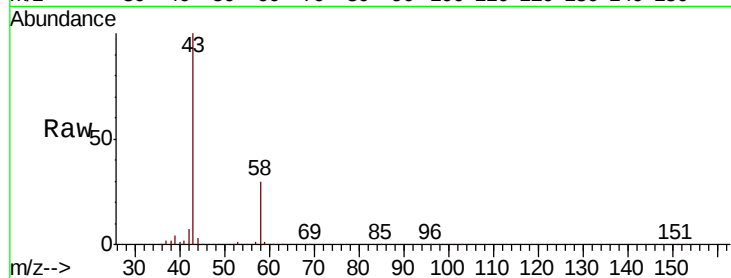
VSTD05048

Tot Ion: 43 Resp: 191955

Ion Ratio Lower Upper

43 100

58 30.1 0.0 62.0



#14

Carbon disulfide

Concen: 39.216 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037866.D

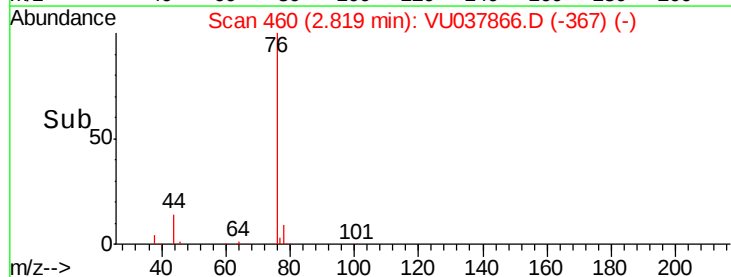
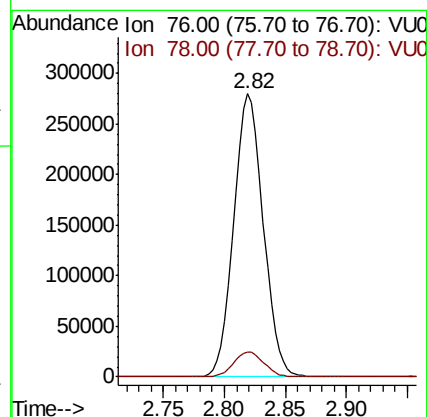
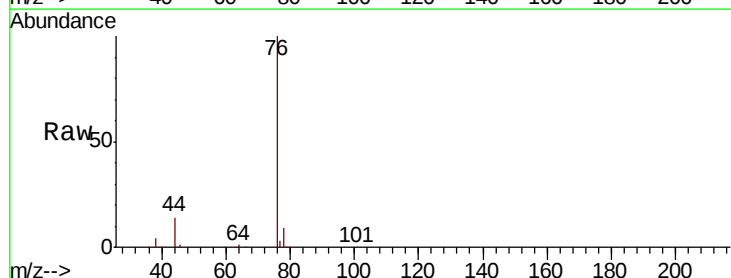
Acq: 24 Apr 2020 09:27

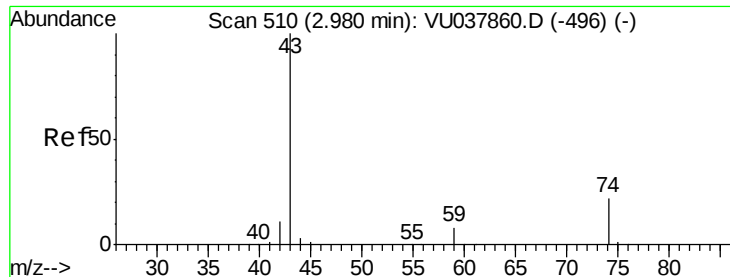
Tgt Ion: 76 Resp: 471745

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0

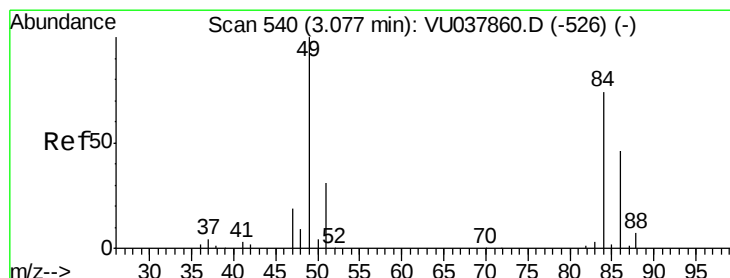
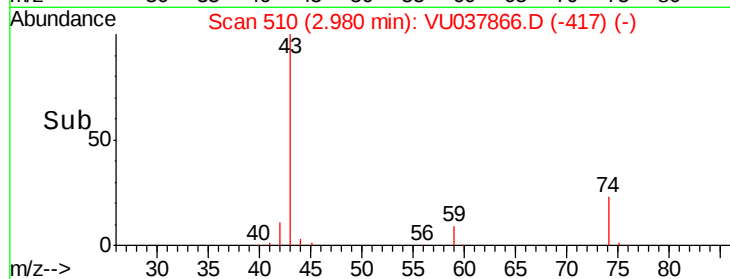
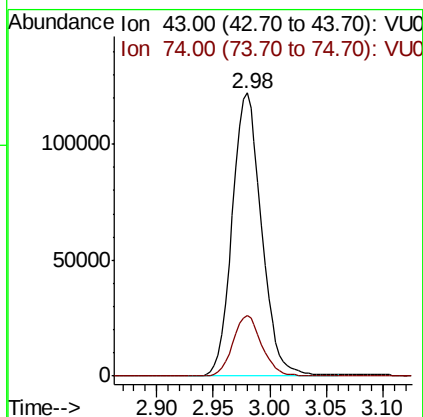
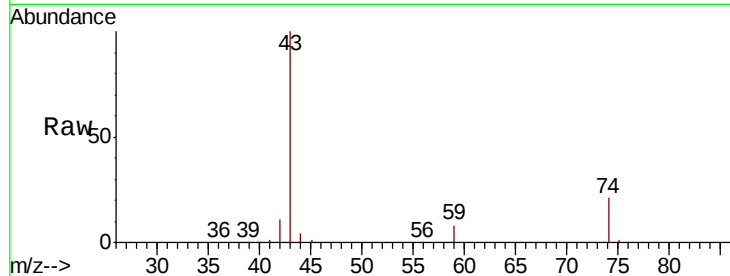




#15
Methvl Acetate
Concen: 39.726 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

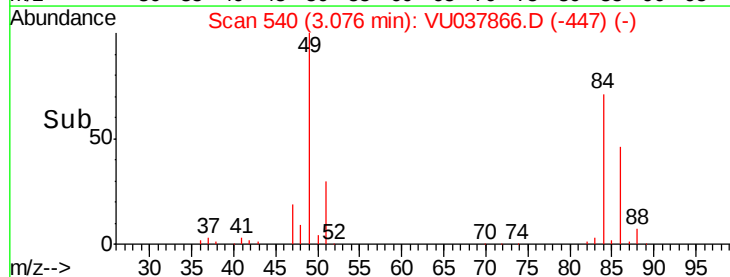
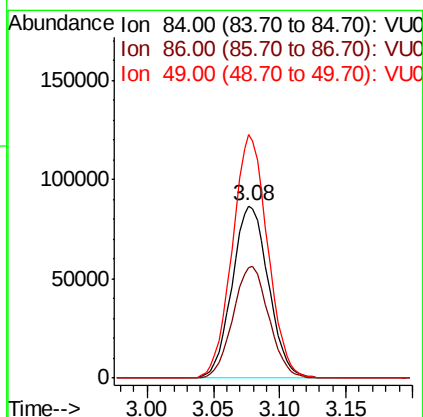
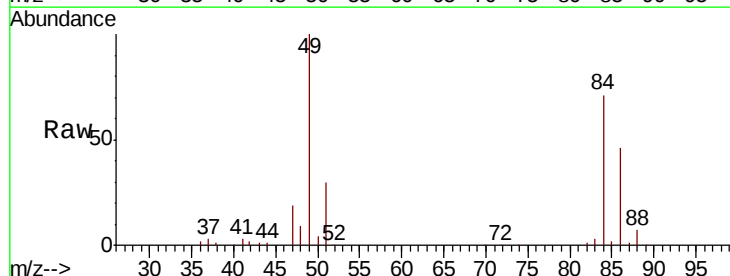
Instrument :
MSVOA_X
ClientSampled :
VSTD05048

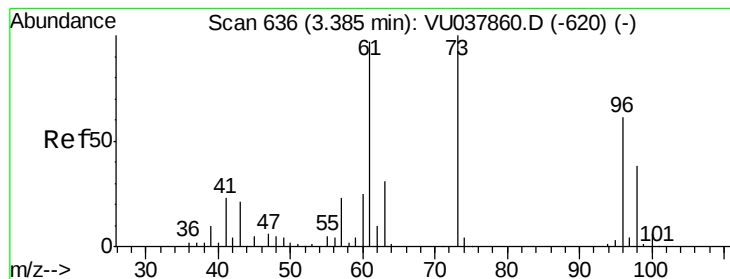
Tot Ion: 43 Resp: 219730
Ion Ratio Lower Upper
43 100
74 21.1 17.0 25.4



#16
Methylene chloride
Concen: 41.347 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Tgt Ion: 84 Resp: 165260
Ion Ratio Lower Upper
84 100
86 64.5 43.5 80.7
49 141.5 95.1 176.7





#17

trans-1,2-Dichloroethene

Concen: 40.349 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

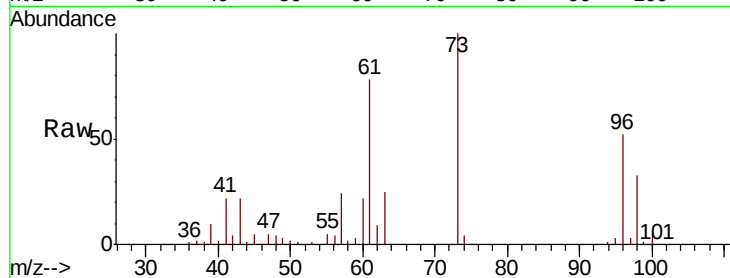
Tot Ion: 96 Resp: 151749

Ion Ratio Lower Upper

96 100

61 151.7 111.4 207.0

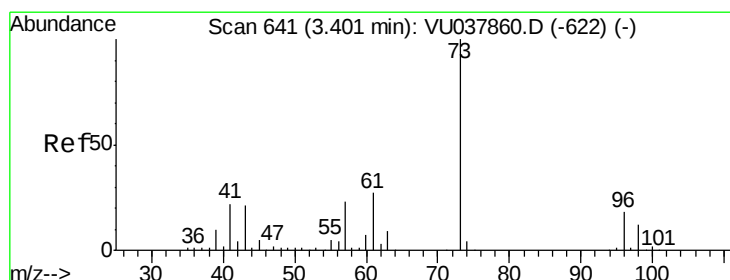
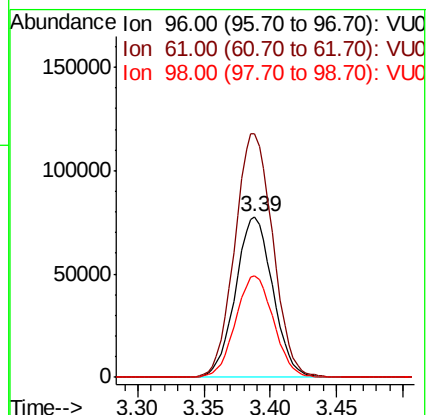
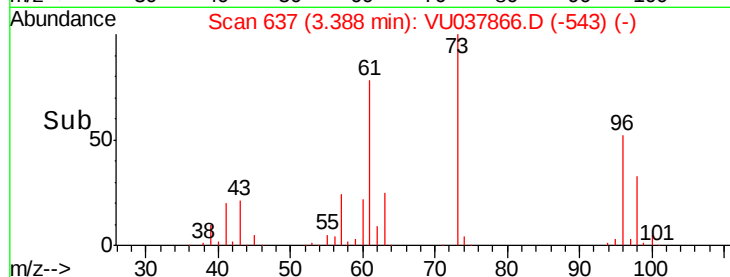
98 63.6 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU037866.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037866.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037866.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 41.006 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

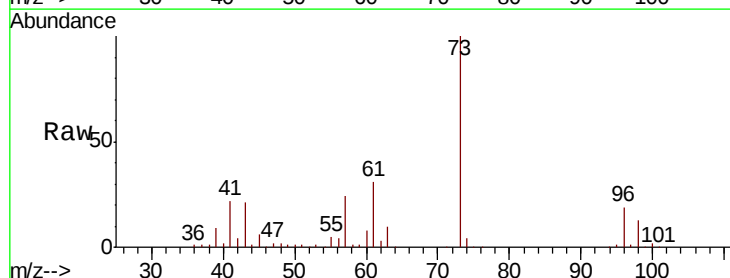
Tgt Ion: 73 Resp: 531233

Ion Ratio Lower Upper

73 100

43 21.2 17.0 25.6

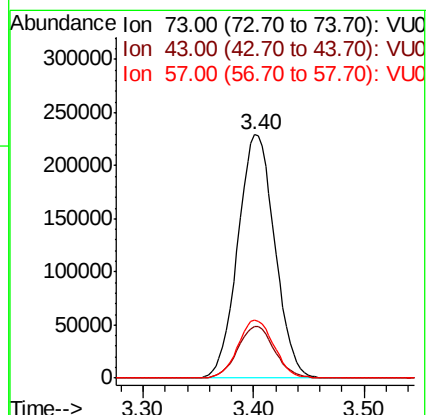
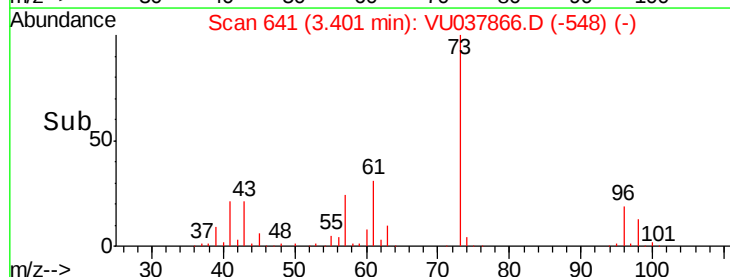
57 23.3 18.7 28.1

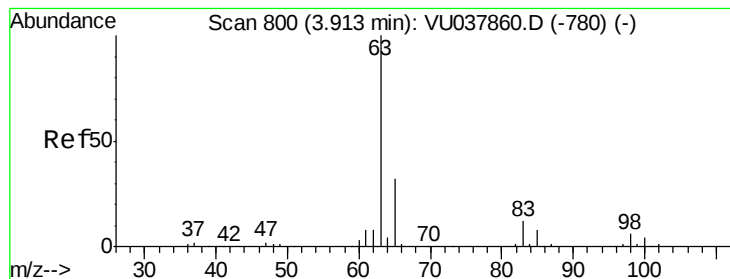


Abundance Ion 73.00 (72.70 to 73.70): VU037866.D (-548) (-)

Ion 43.00 (42.70 to 43.70): VU037866.D (-548) (-)

Ion 57.00 (56.70 to 57.70): VU037866.D (-548) (-)





#19

1,1-Dichloroethane

Concen: 40.949 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

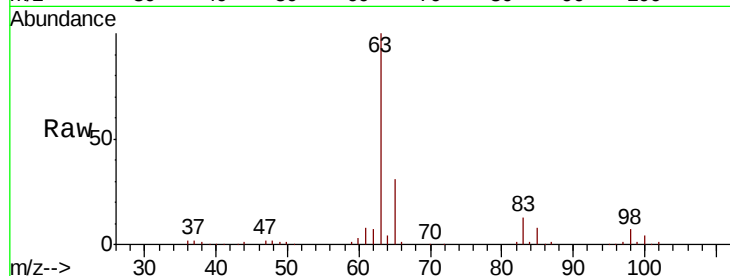
Tot Ion: 63 Resp: 310446

Ion Ratio Lower Upper

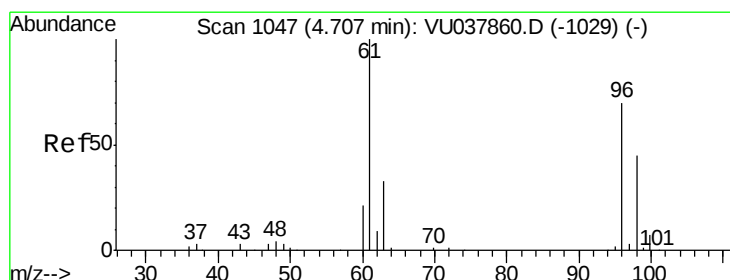
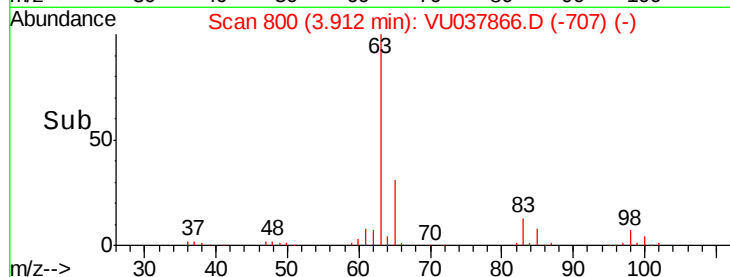
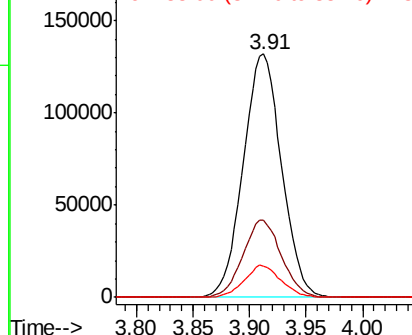
63 100

65 31.5 22.2 41.2

83 13.0 8.6 16.0



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 40.522 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

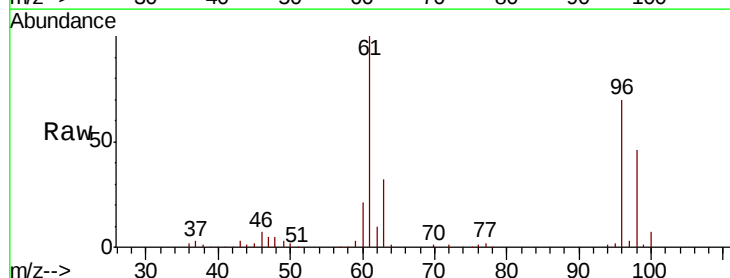
Tgt Ion: 96 Resp: 166864

Ion Ratio Lower Upper

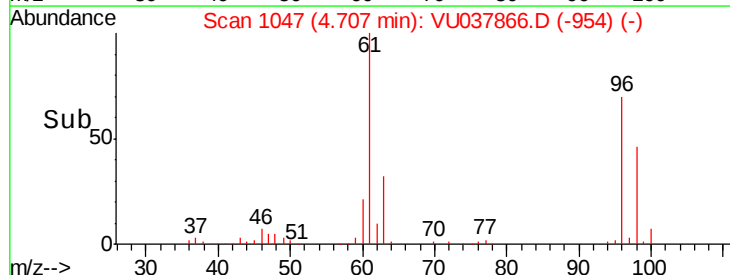
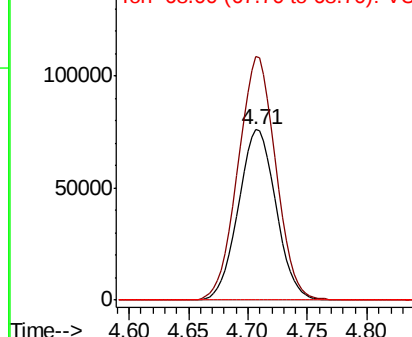
96 100

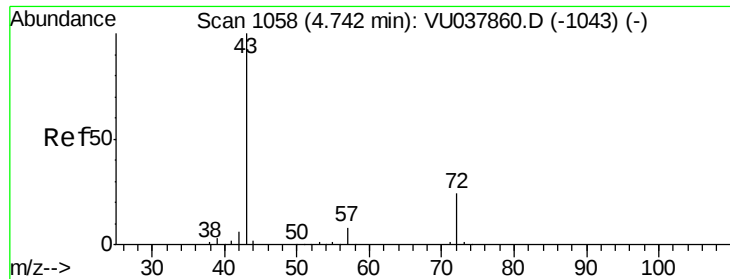
61 142.8 100.4 186.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 81.509 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

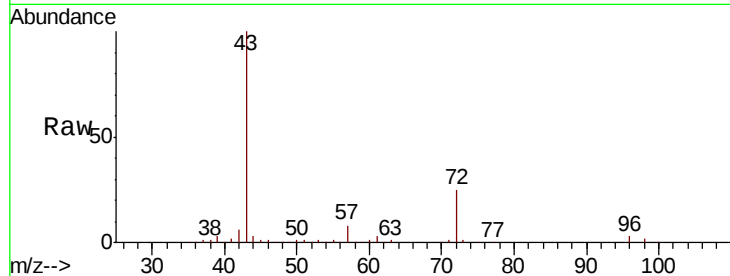
VSTD05048

Tot Ion: 43 Resp: 326624

Ion Ratio Lower Upper

43 100

72 24.7 12.6 37.6



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-1043) (-)

Ion 72.00 (71.70 to 72.70): VU037866.D (-1043) (-)

4.75

150000

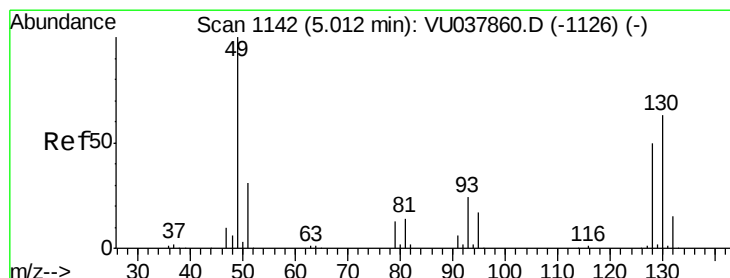
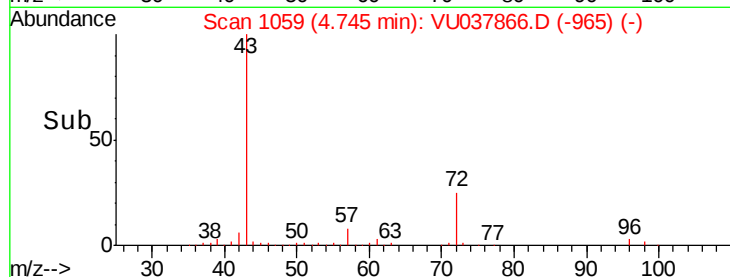
100000

50000

0

4.70 4.80

Time-->



#23

Bromochloromethane

Concen: 41.909 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Tgt Ion: 128 Resp: 83391

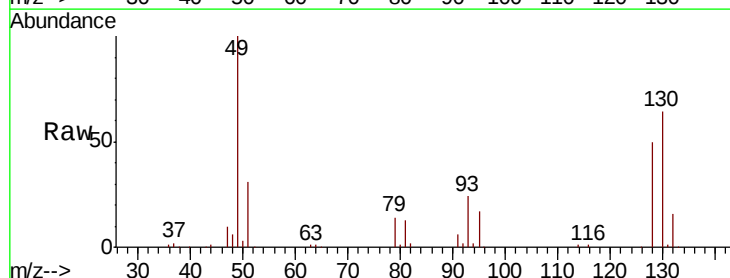
Ion Ratio Lower Upper

128 100

49 199.4 140.9 261.7

130 128.4 88.6 164.6

51 62.5 50.0 75.0



Abundance Ion 128.00 (127.70 to 128.70): VU037866.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037866.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037866.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037866.D (-1049) (-)

120000

100000

80000

60000

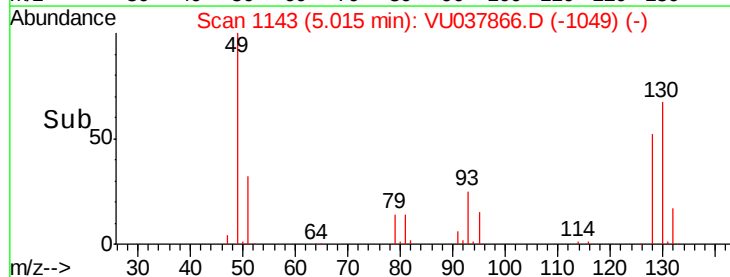
40000

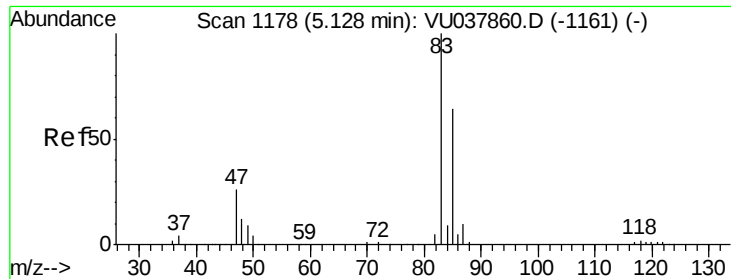
20000

0

4.95 5.00 5.05 5.10

Time-->

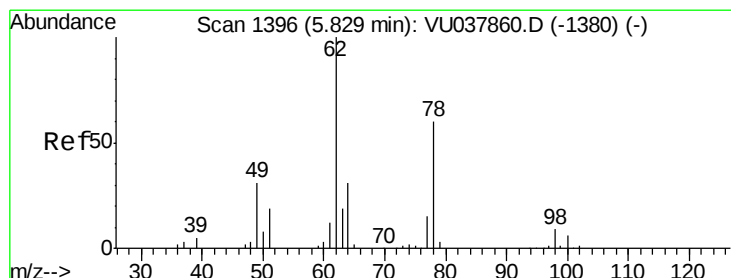
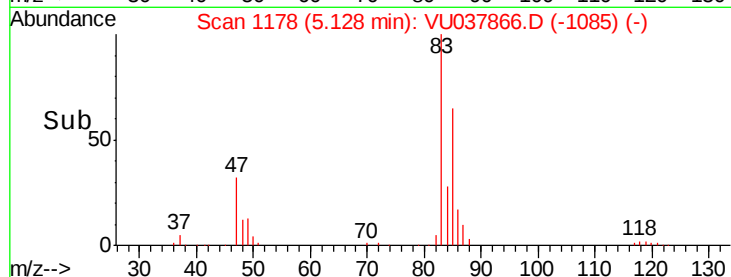
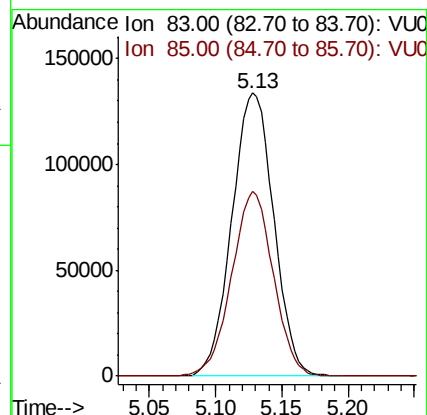
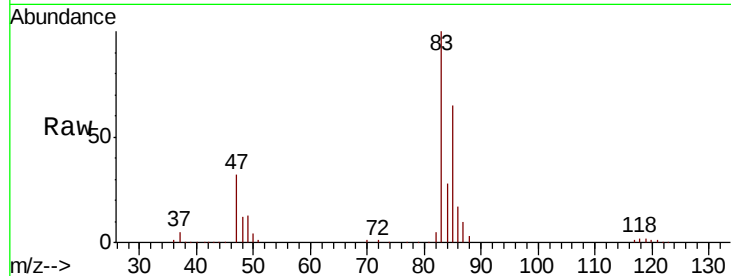




#25
Chloroform
Concen: 41.418 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

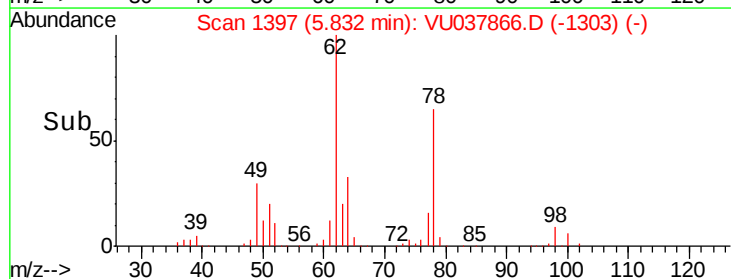
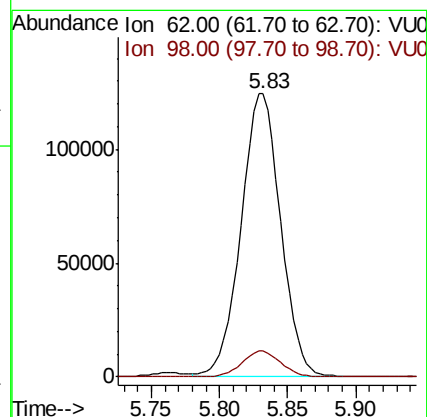
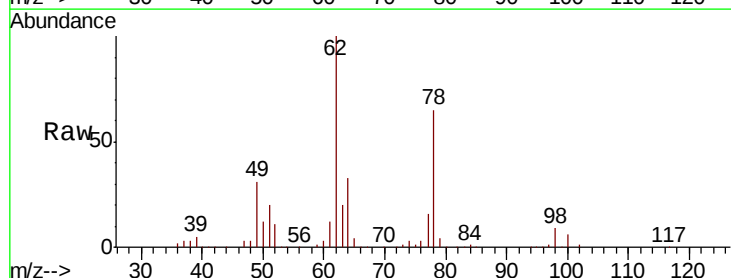
Instrument :
MSVOA_X
ClientSampleId :
VSTD05048

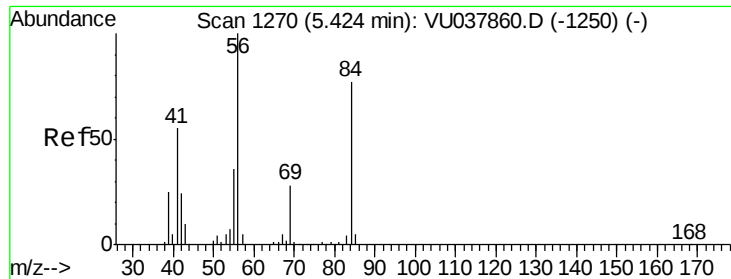
Tot Ion: 83 Resp: 293807
Ion Ratio Lower Upper
83 100
85 65.4 45.1 83.9



#27
1,2-Dichloroethane
Concen: 41.065 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Tgt Ion: 62 Resp: 249490
Ion Ratio Lower Upper
62 100
98 9.0 7.3 10.9

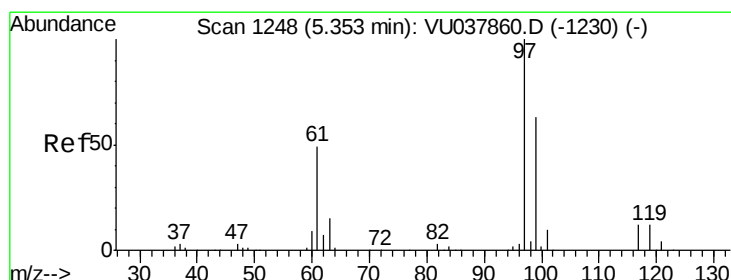
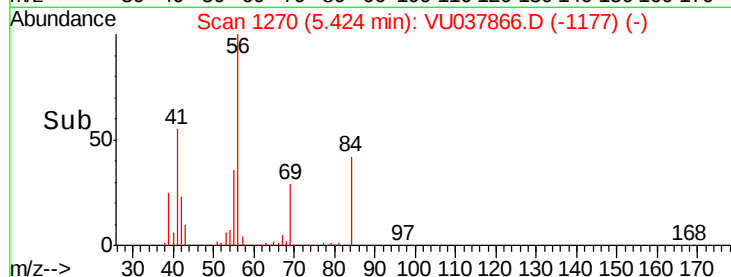
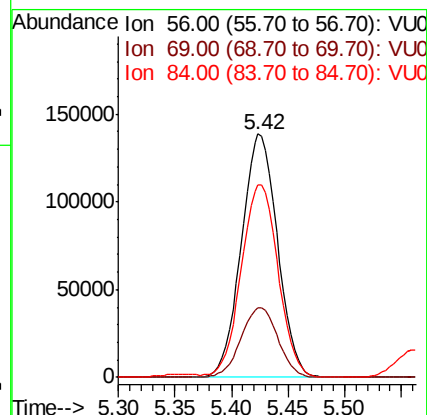
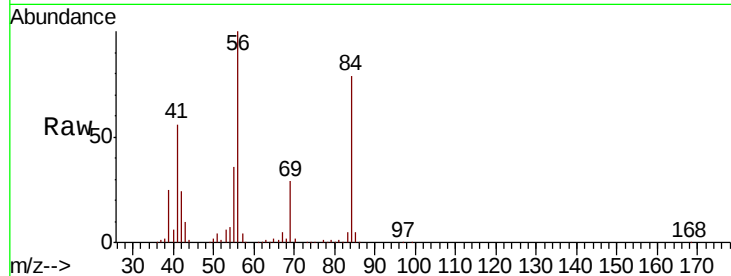




#29
Cyclohexane
Concen: 41.941 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

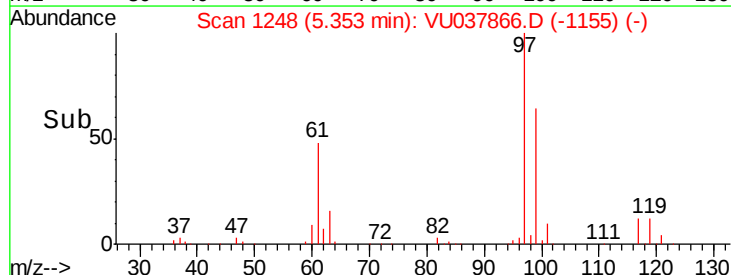
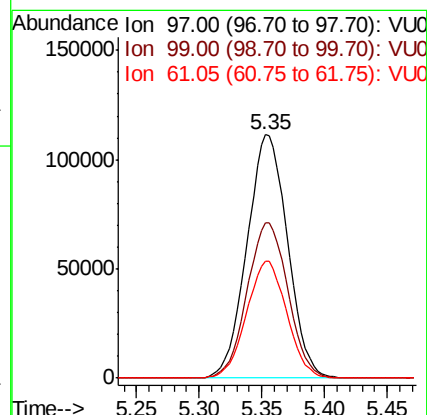
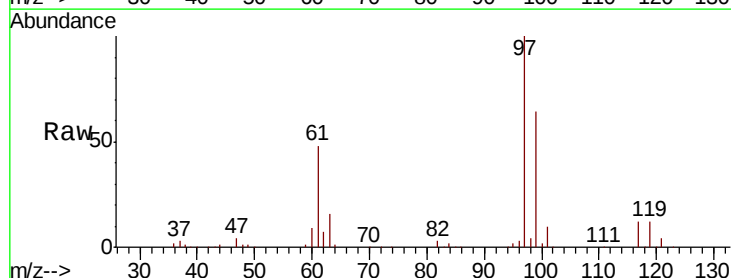
Instrument :
MSVOA_X
ClientSampled :
VSTD05048

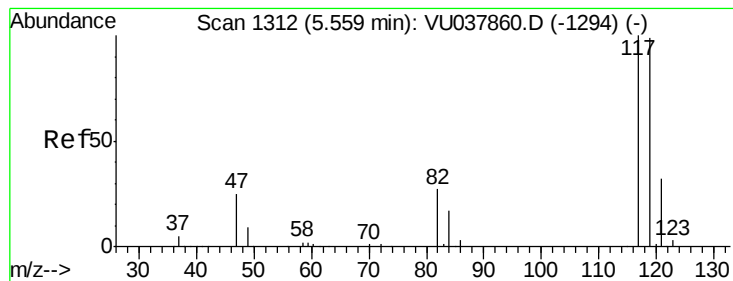
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.2	22.9	34.3
84	80.6	63.6	95.4



#30
1,1,1-Trichloroethane
Concen: 42.673 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.7	76.1
61	47.6	38.9	58.3





#31

Carbon tetrachloride

Concen: 42.754 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampled :

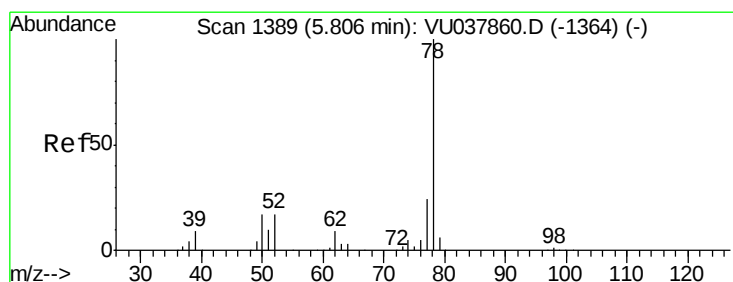
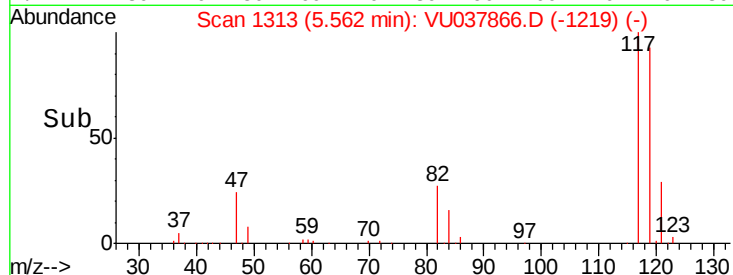
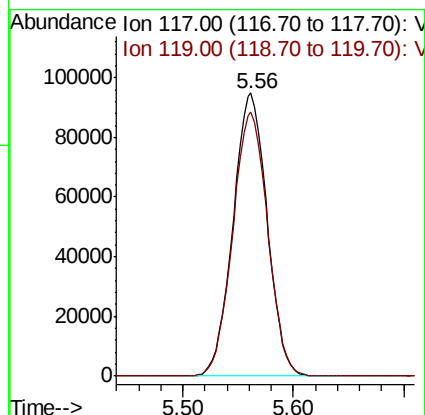
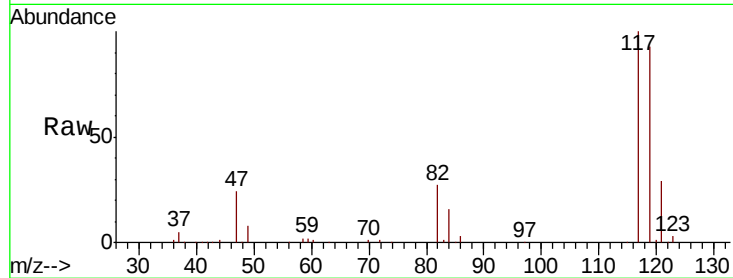
VSTD05048

Tot Ion:117 Resp: 203285

Ion Ratio Lower Upper

117 100

119 95.5 76.7 115.1



#33

Benzene

Concen: 42.080 ug/L

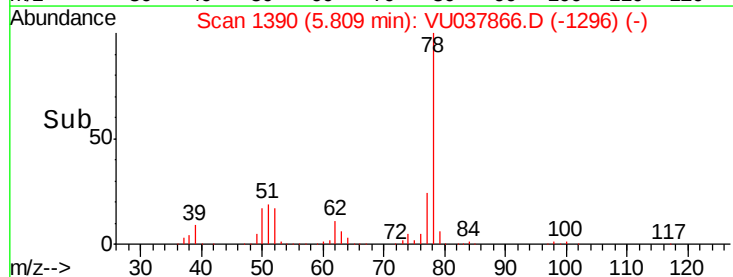
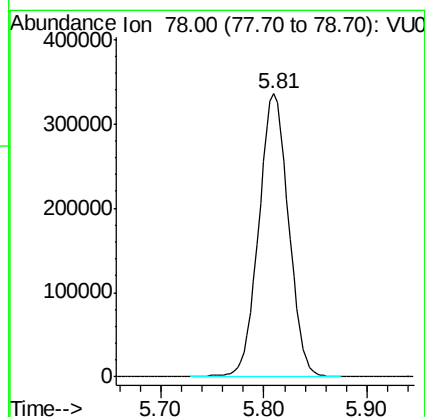
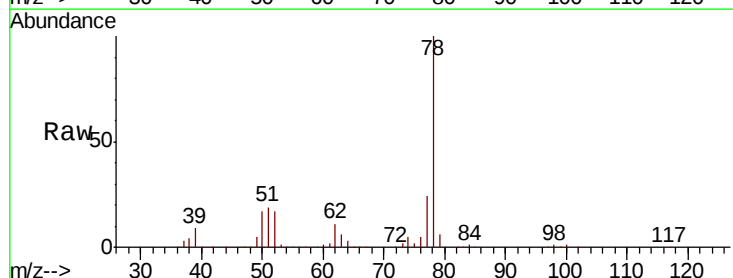
RT: 5.81 min Scan# 1390

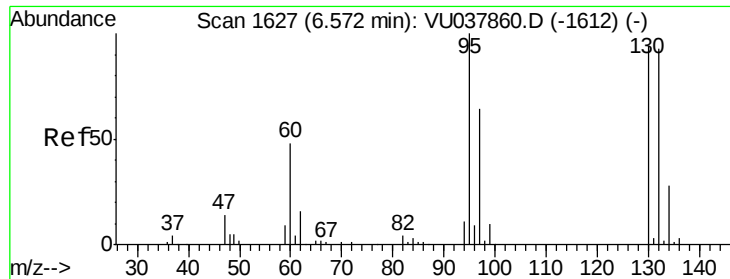
Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Tgt Ion: 78 Resp: 672655





#34

Trichloroethene

Concen: 41.808 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

Tot Ion: 95 Resp: 163930

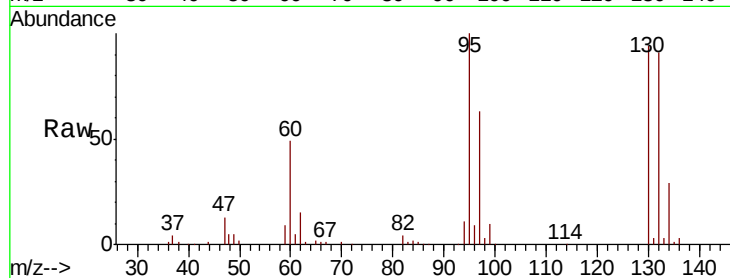
Ion Ratio Lower Upper

95 100

97 62.8 44.4 82.5

132 91.2 65.0 120.6

130 94.3 65.5 121.7

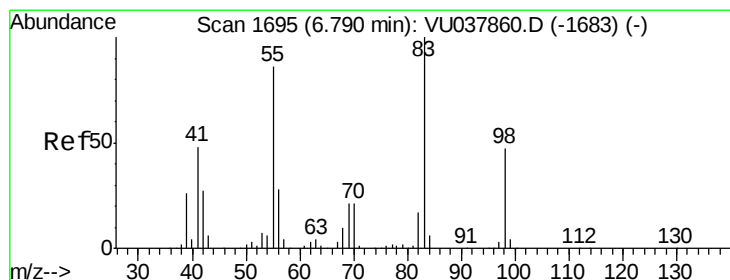
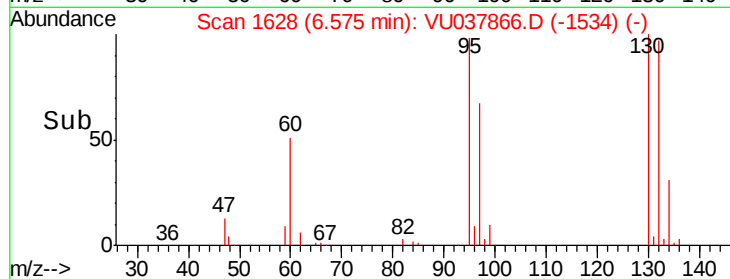
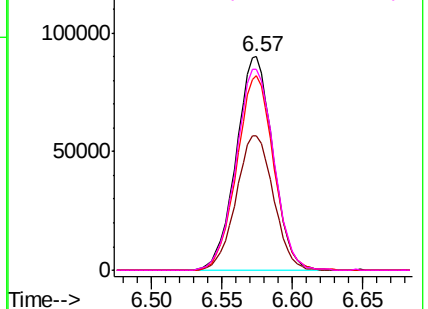


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 42.603 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

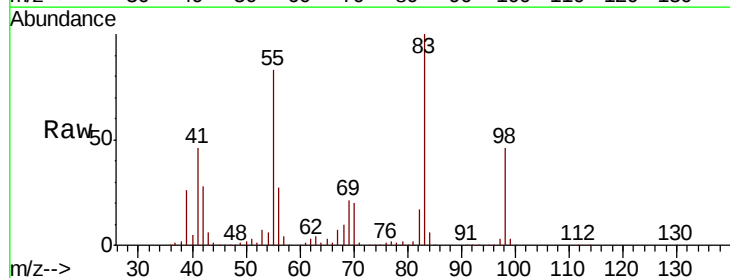
Tgt Ion: 83 Resp: 292503

Ion Ratio Lower Upper

83 100

55 83.6 66.3 99.5

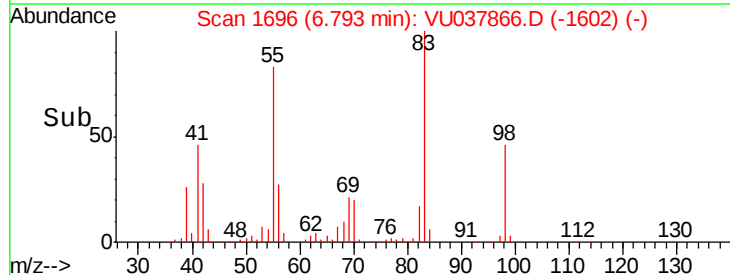
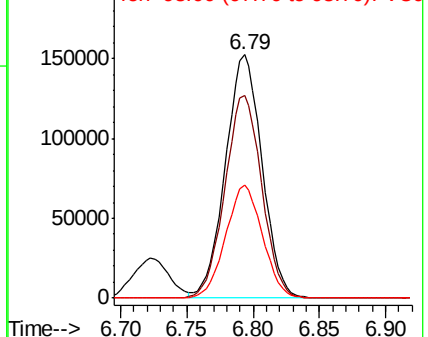
98 46.8 37.4 56.0

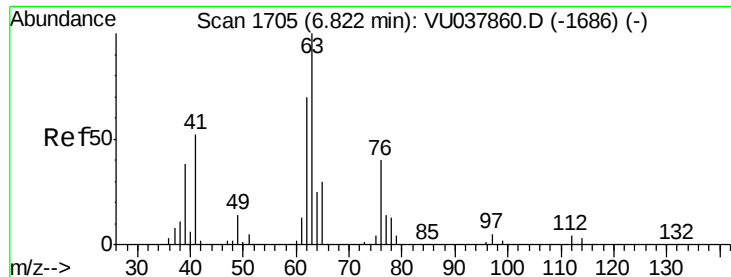


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

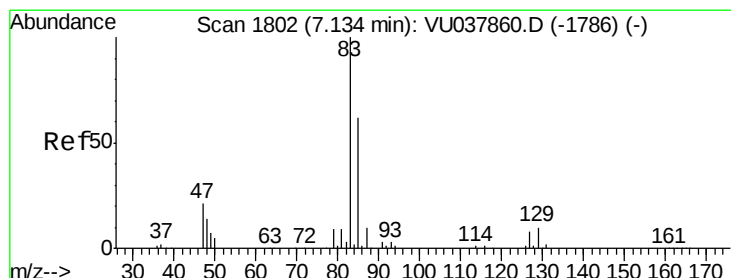
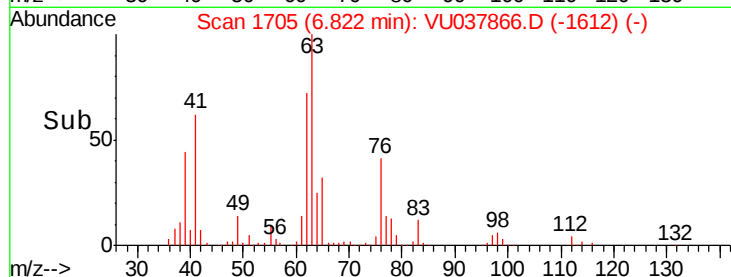
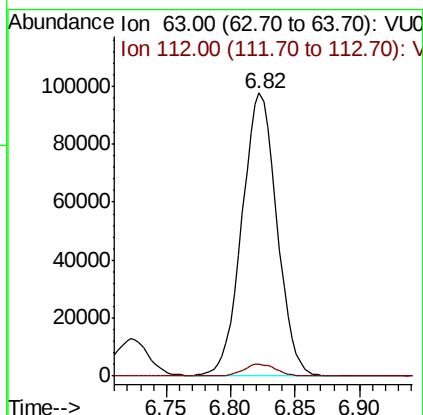
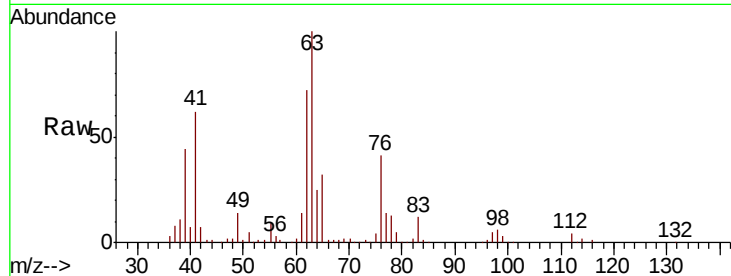




#37
 1,2-Dichloropropane
 Concen: 42.235 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. -0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

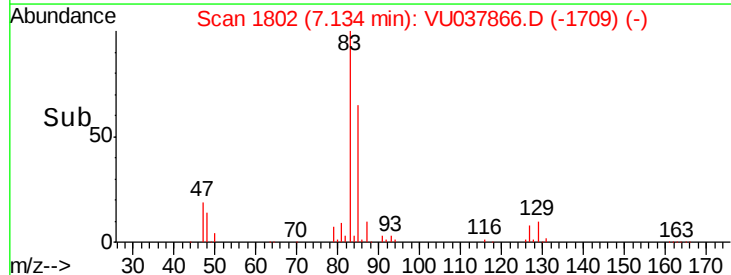
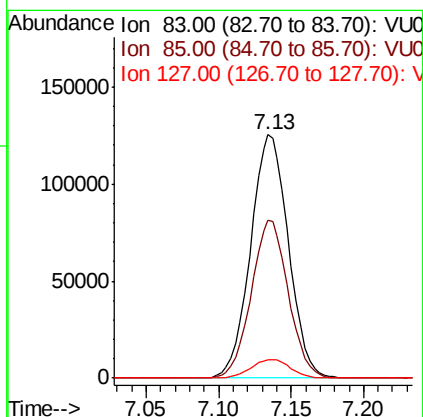
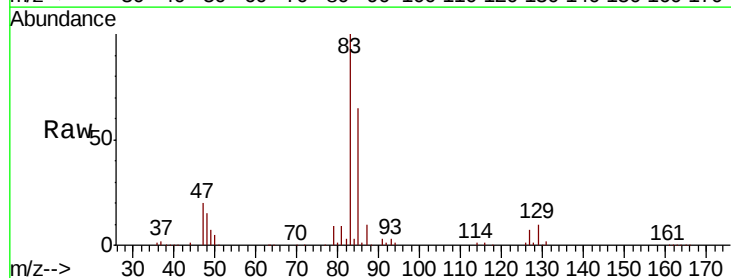
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD05048

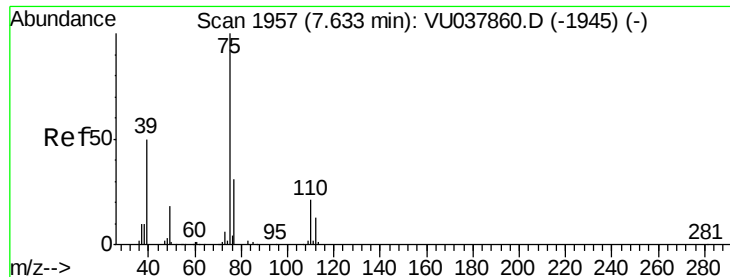
Tot Ion: 63 Resp: 184394
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#38
 Bromodichloromethane
 Concen: 43.109 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

Tgt Ion: 83 Resp: 227392
 Ion Ratio Lower Upper
 83 100
 85 64.8 43.3 80.3
 127 7.5 6.2 9.2





#39

cis-1,3-Dichloropropene

Concen: 42.481 ug/L

RT: 7.63 min Scan# 1957

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

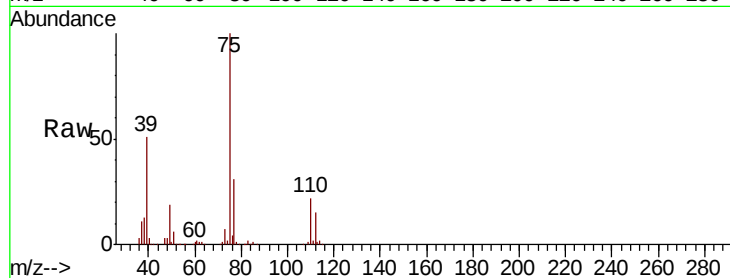
VSTD05048

Tot Ion: 75 Resp: 296949

Ion Ratio Lower Upper

75 100

77 31.4 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VU037866.D (-1864) (-)

Ion 77.00 (76.70 to 77.70): VU037866.D (-1864) (-)

7.63

150000

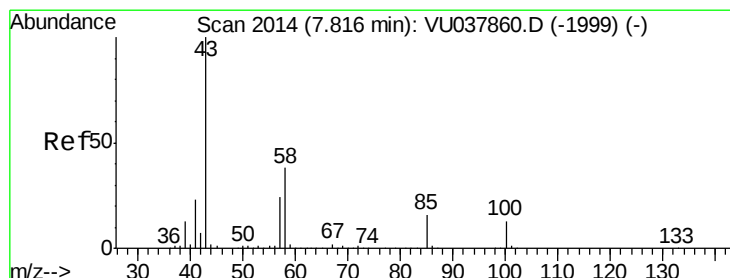
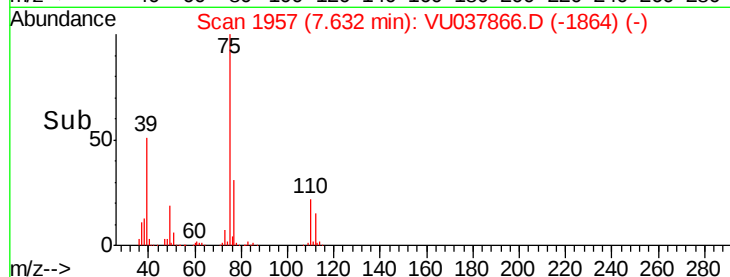
100000

50000

0

7.50 7.60 7.70

Time-->



#40

4-Methyl-2-pentanone

Concen: 81.631 ug/L

RT: 7.82 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

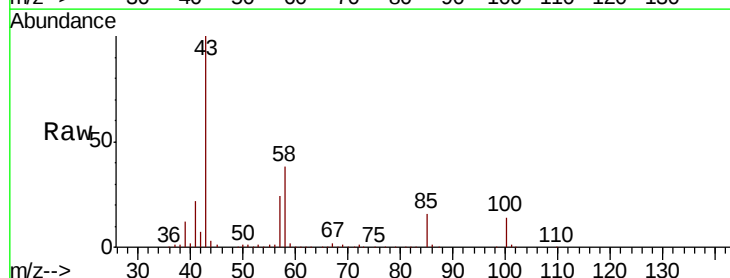
Tgt Ion: 43 Resp: 619803

Ion Ratio Lower Upper

43 100

58 38.3 30.2 45.2

100 13.8 10.9 16.3



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-1921) (-)

Ion 58.00 (57.70 to 58.70): VU037866.D (-1921) (-)

Ion 100.00 (99.70 to 100.70): VU037866.D (-1921) (-)

7.82

500000

400000

300000

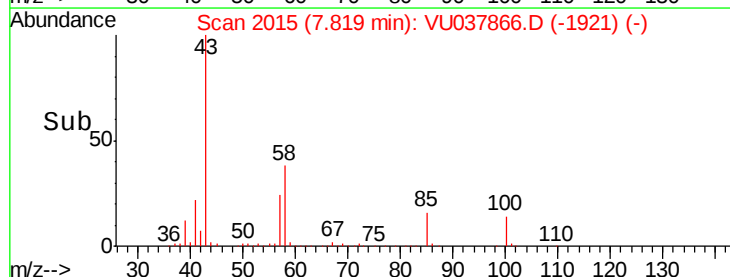
200000

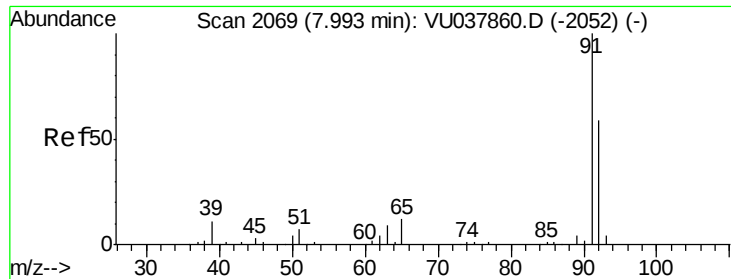
100000

0

7.75 7.80 7.85 7.90

Time-->





#42

Toluene

Concen: 42.285 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

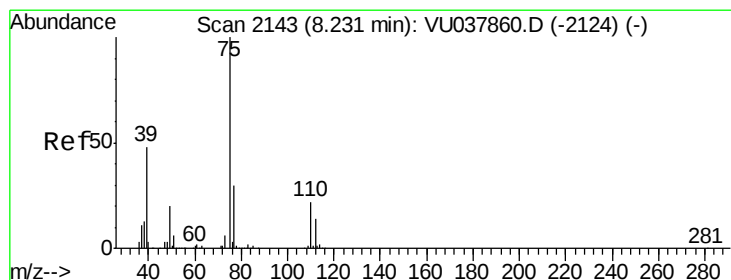
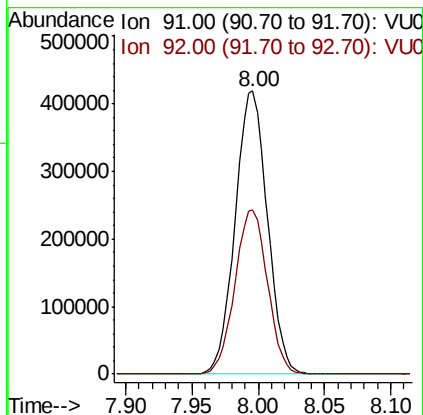
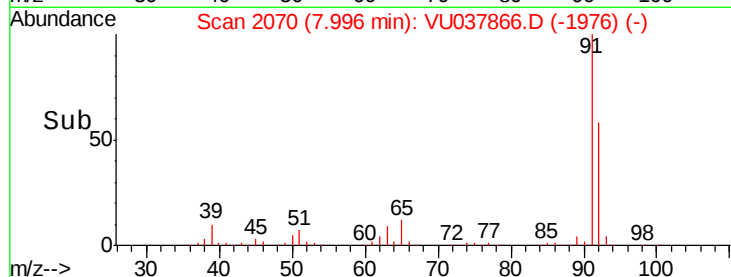
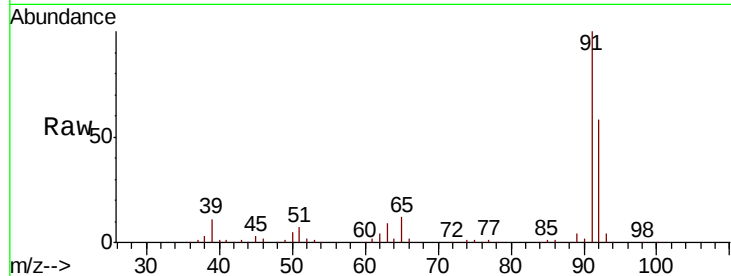
VSTD05048

Tot Ion: 91 Resp: 708678

Ion Ratio Lower Upper

91 100

92 58.1 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 42.577 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037866.D

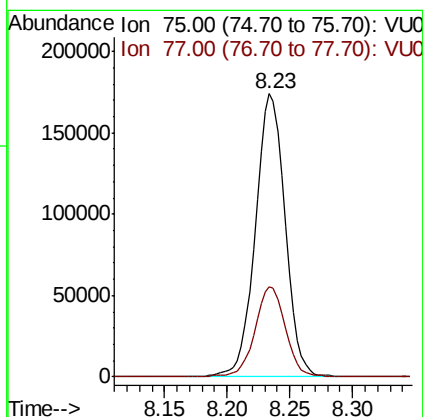
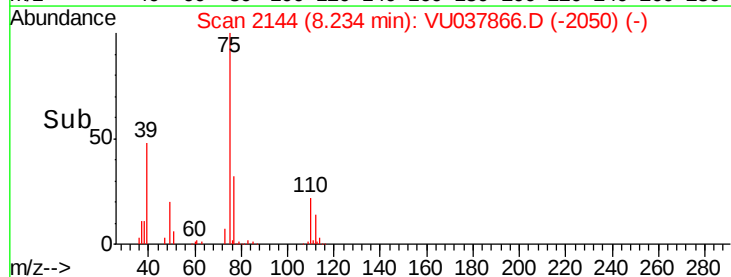
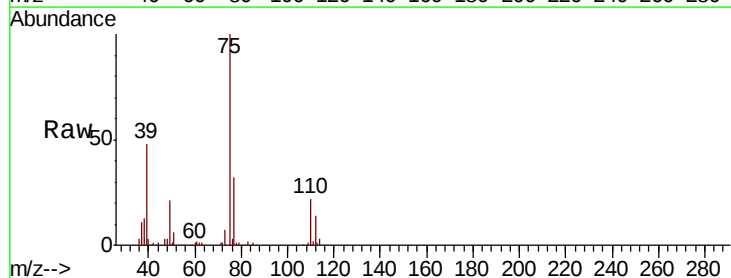
Acq: 24 Apr 2020 09:27

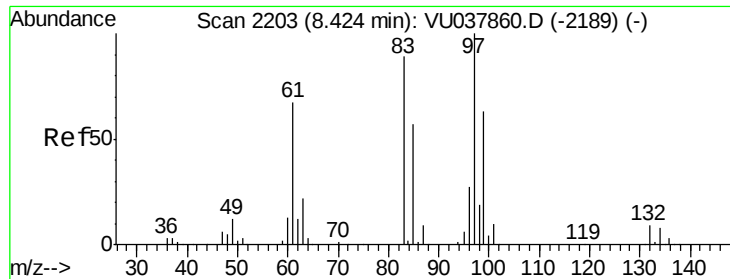
Tgt Ion: 75 Resp: 287283

Ion Ratio Lower Upper

75 100

77 32.1 21.0 39.0

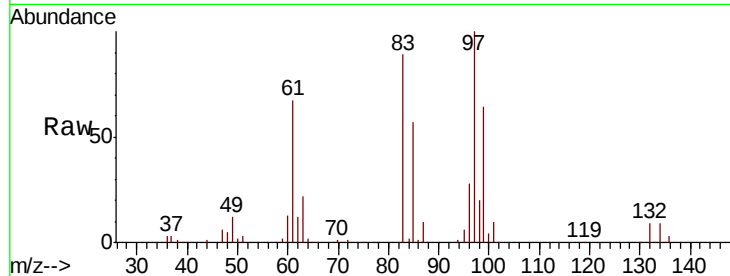




#45
1,1,2-Trichloroethane
Concen: 42.060 ug/L
RT: 8.43 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Instrument :
MSVOA_X
ClientSampleId :
VSTD05048

Tot Ion:	97	Resp:	160191
Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.0	81.6
83	88.5	62.6	116.2
85	57.2	40.0	74.4



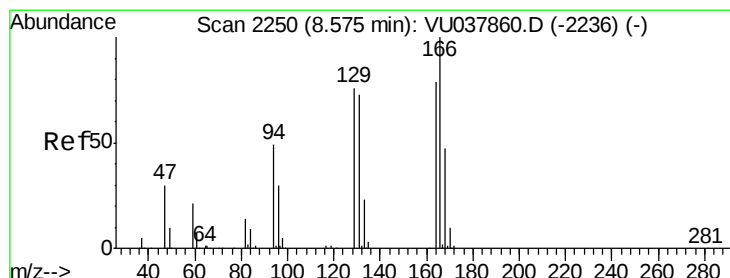
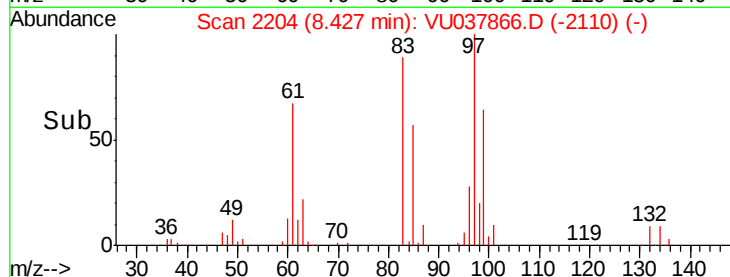
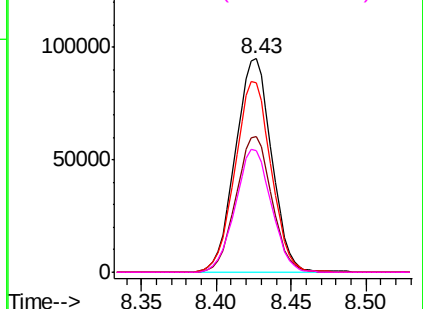
Abundance

Ion 97.00 (96.70 to 97.70): VU037866.D (-2189) (-)

Ion 99.00 (98.70 to 99.70): VU037866.D (-2189) (-)

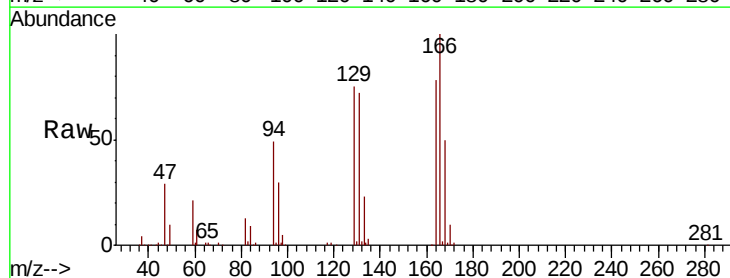
Ion 83.00 (82.70 to 83.70): VU037866.D (-2189) (-)

Ion 85.00 (84.70 to 85.70): VU037866.D (-2189) (-)



#46
Tetrachloroethene
Concen: 42.549 ug/L
RT: 8.58 min Scan# 2251
Delta R.T. 0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Tgt Ion:	164	Resp:	121942
Ion	Ratio	Lower	Upper
164	100		
129	95.5	67.3	125.1
131	91.7	64.8	120.4
166	128.0	88.5	164.4



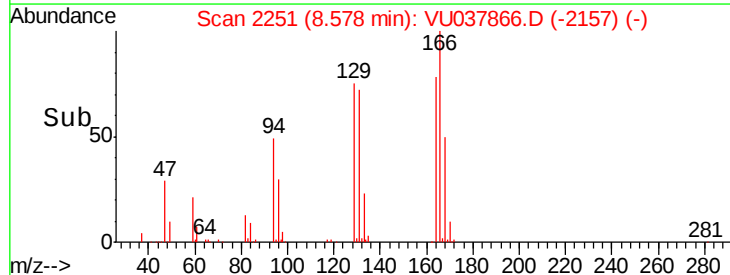
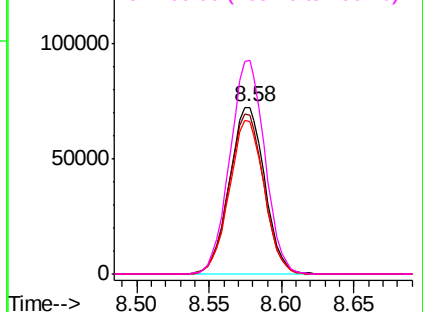
Abundance

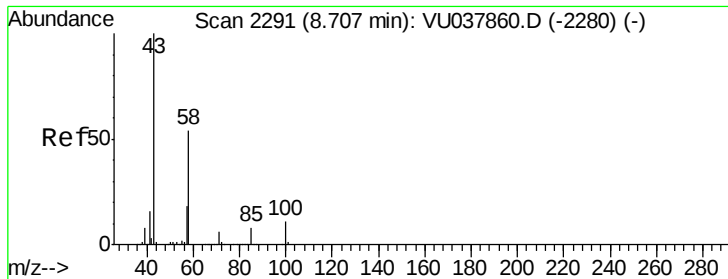
Ion 164.00 (163.70 to 164.70): VU037866.D (-2236) (-)

Ion 129.00 (128.70 to 129.70): VU037866.D (-2236) (-)

Ion 131.00 (130.70 to 131.70): VU037866.D (-2236) (-)

Ion 166.00 (165.70 to 166.70): VU037866.D (-2236) (-)

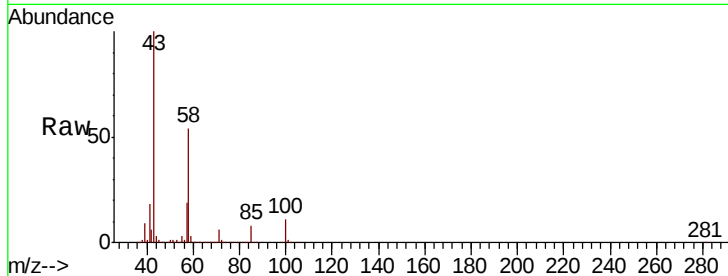




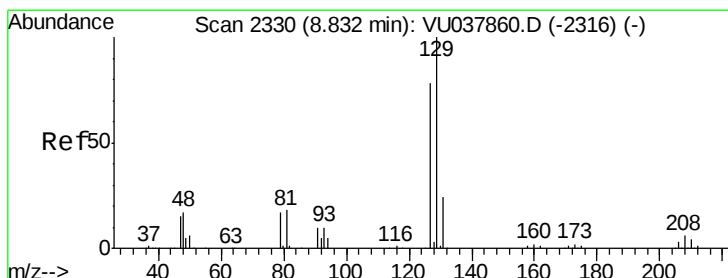
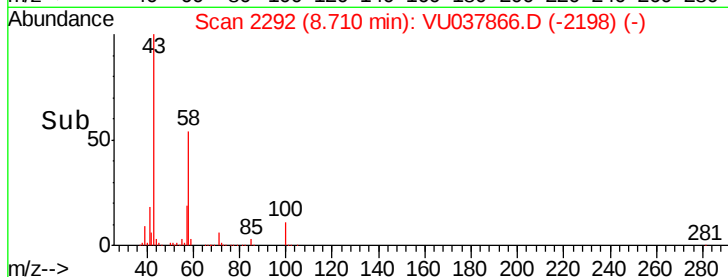
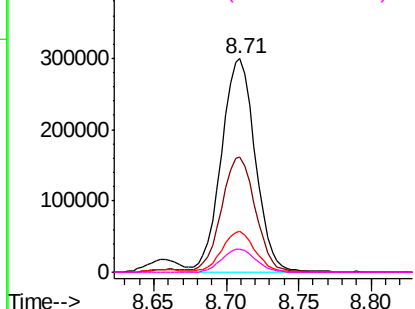
#48
2-Hexanone
Concen: 80.921 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Instrument :
MSVOA_X
ClientSampleId :
VSTD05048

Tot Ion: 43 Resp: 485797
Ion Ratio Lower Upper
43 100
58 53.9 42.6 63.8
57 19.0 14.6 22.0
100 10.9 8.6 13.0

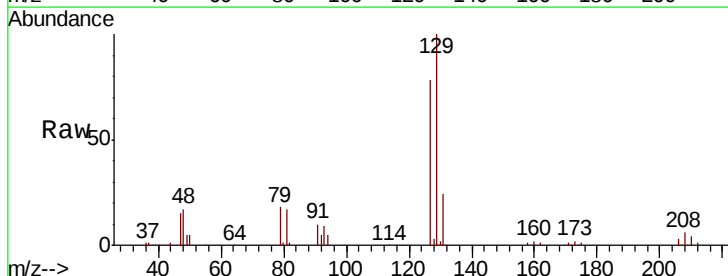


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

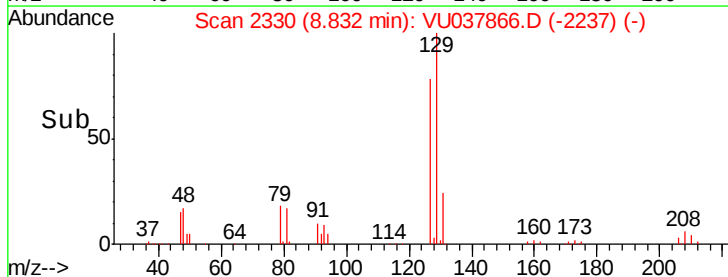
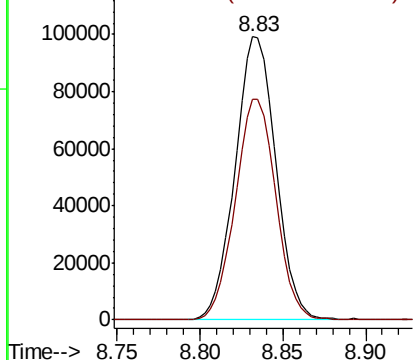


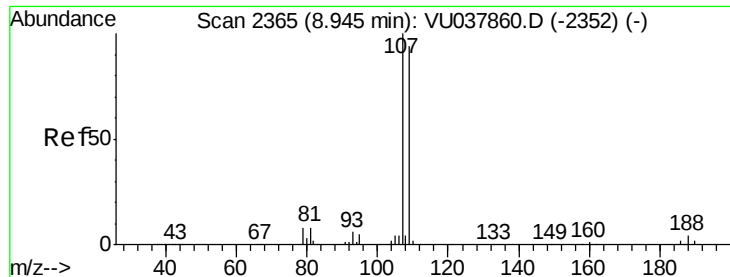
#49
Dibromochloromethane
Concen: 42.599 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037866.D
Acq: 24 Apr 2020 09:27

Tgt Ion: 129 Resp: 169416
Ion Ratio Lower Upper
129 100
127 78.1 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

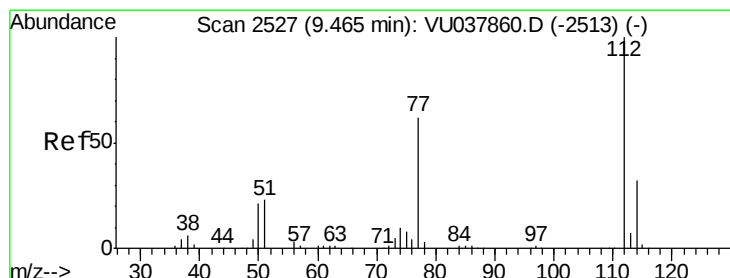
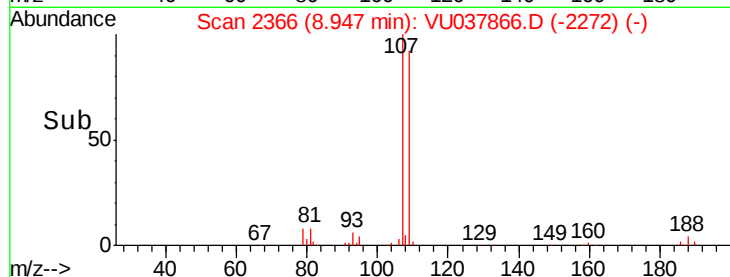
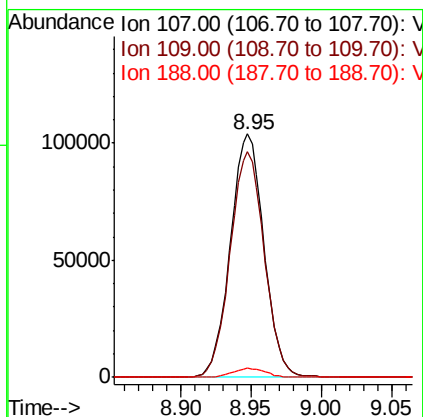
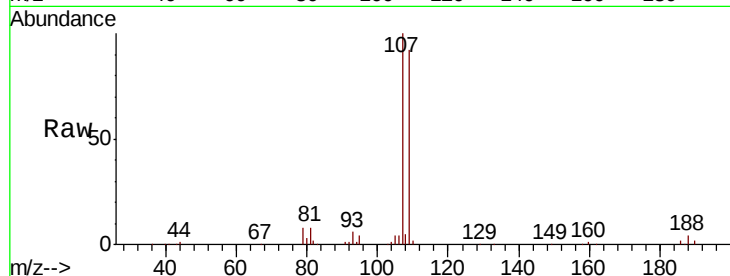




#50
 1,2-Dibromoethane
 Concen: 41.936 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

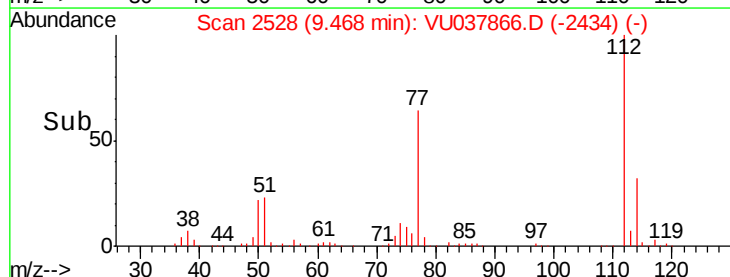
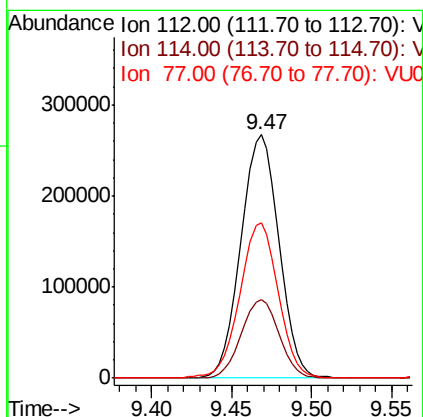
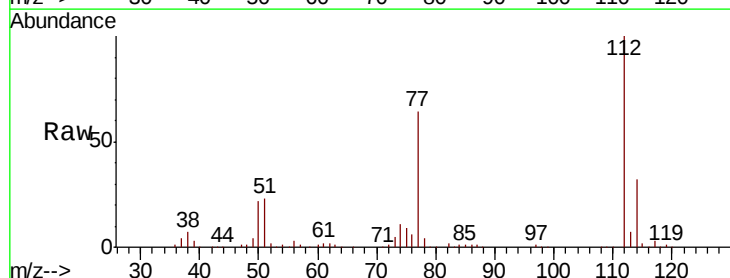
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD05048

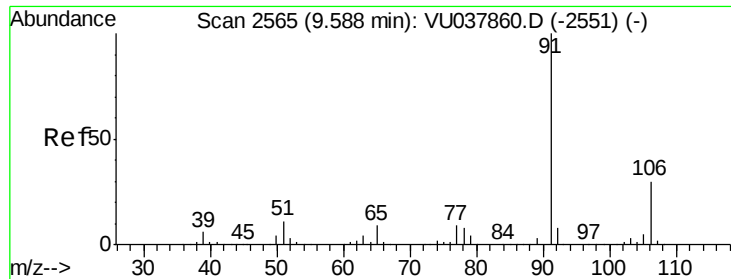
Tot Ion:107 Resp: 173013
 Ion Ratio Lower Upper
 107 100
 109 92.5 65.7 122.1
 188 3.6 2.9 4.3



#51
 Chlorobenzene
 Concen: 41.634 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

Tgt Ion:112 Resp: 434017
 Ion Ratio Lower Upper
 112 100
 114 32.4 22.3 41.3
 77 64.0 49.8 74.6





#52

Ethylbenzene

Concen: 42.292 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

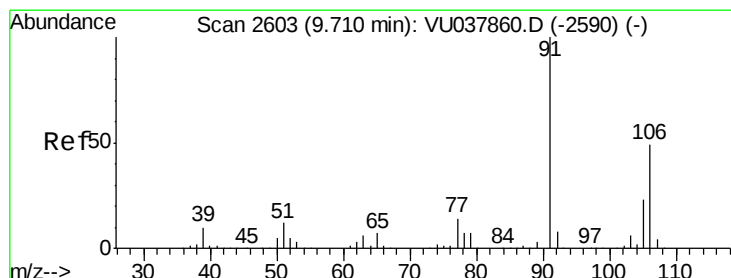
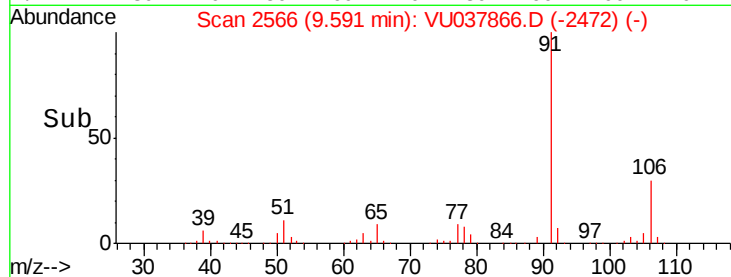
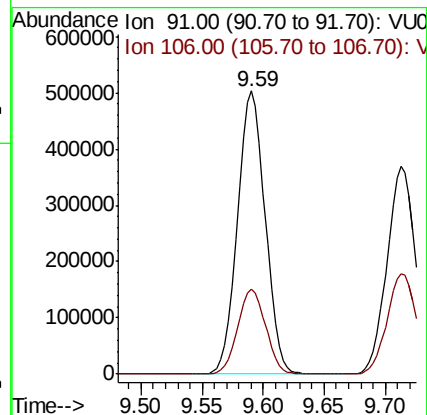
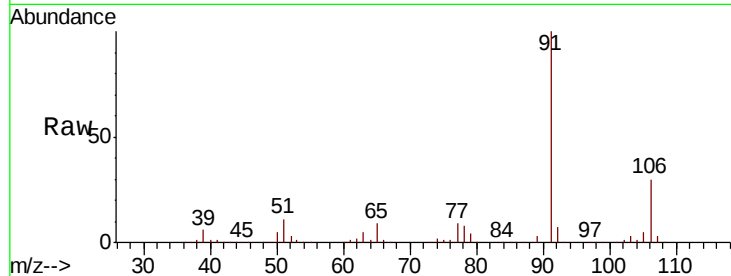
VSTD05048

Tot Ion: 91 Resp: 793758

Ion Ratio Lower Upper

91 100

106 30.1 21.1 39.1



#53

m,p-Xylene

Concen: 42.106 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037866.D

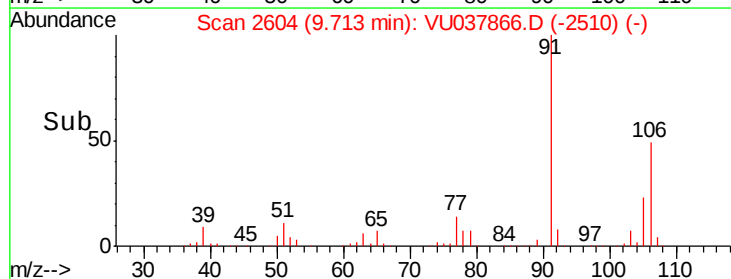
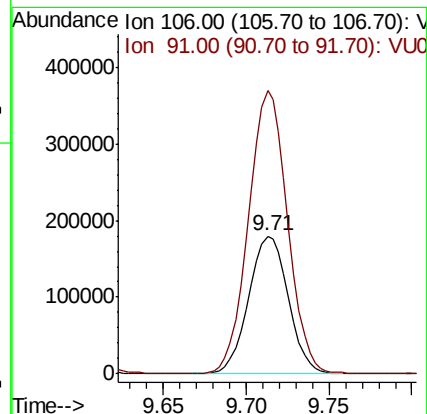
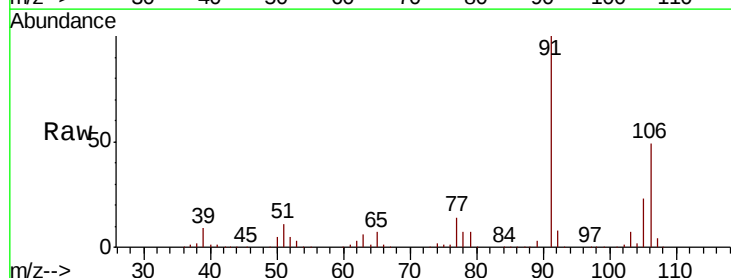
Acq: 24 Apr 2020 09:27

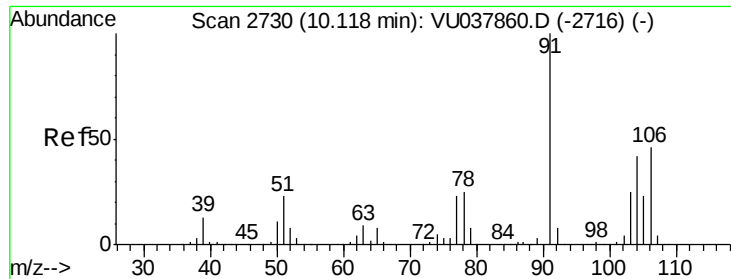
Tgt Ion: 106 Resp: 297543

Ion Ratio Lower Upper

106 100

91 205.6 142.8 265.2





#54

o-xylene

Concen: 42.080 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

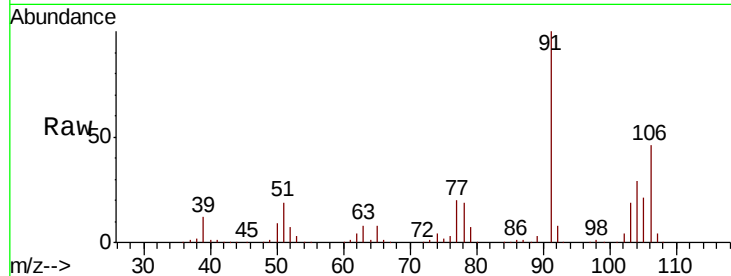
VSTD05048

Tot Ion:106 Resp: 290818

Ion Ratio Lower Upper

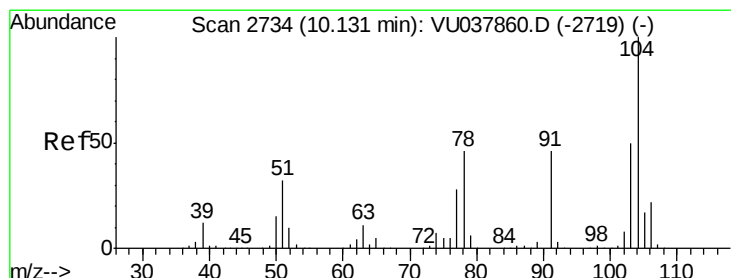
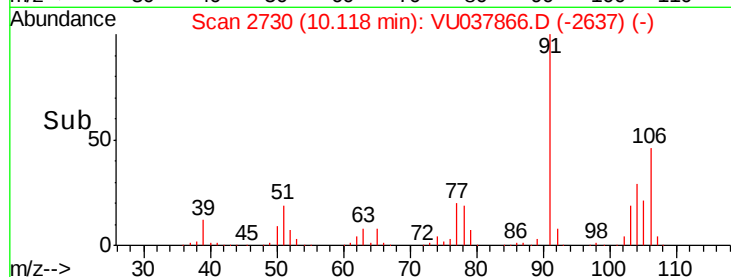
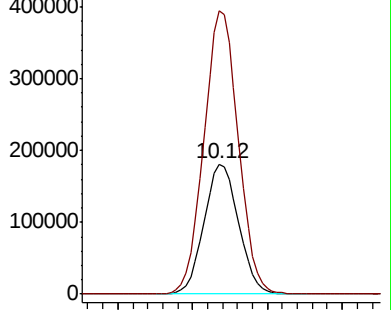
106 100

91 217.8 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 42.558 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037866.D

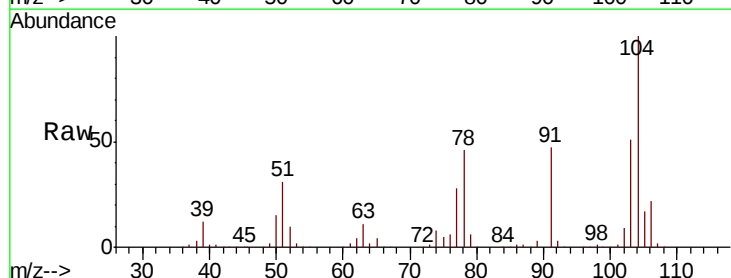
Acq: 24 Apr 2020 09:27

Tgt Ion:104 Resp: 505808

Ion Ratio Lower Upper

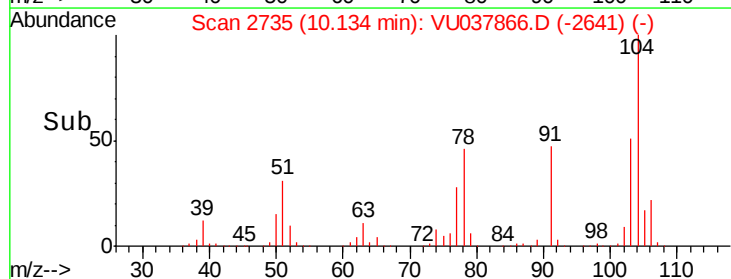
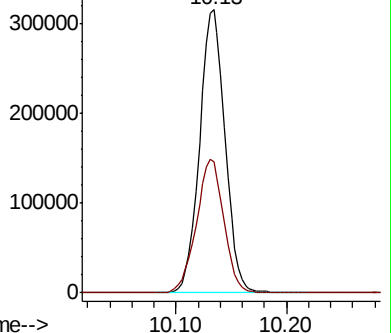
104 100

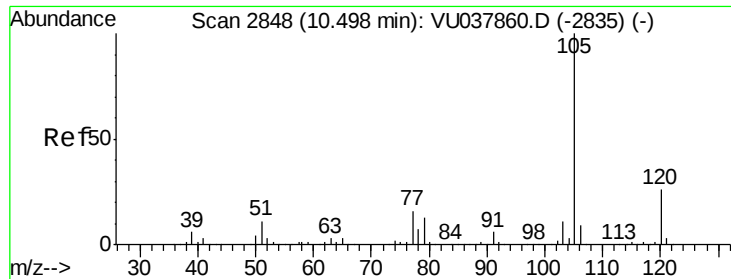
78 46.1 32.6 60.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 42.379 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

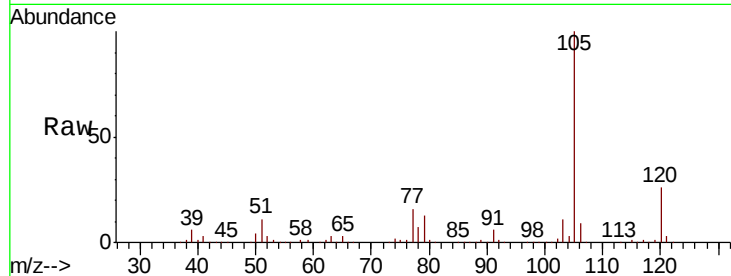
Tot Ion:105 Resp: 775134

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

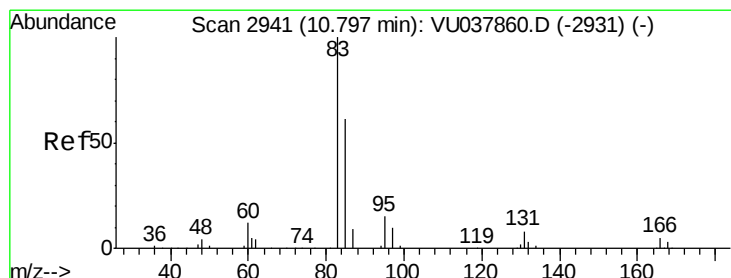
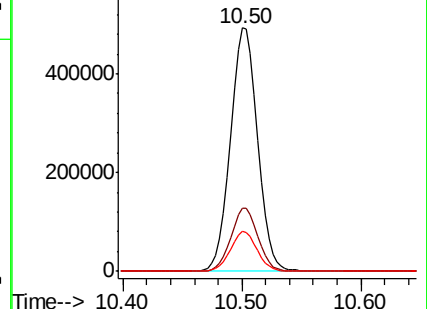
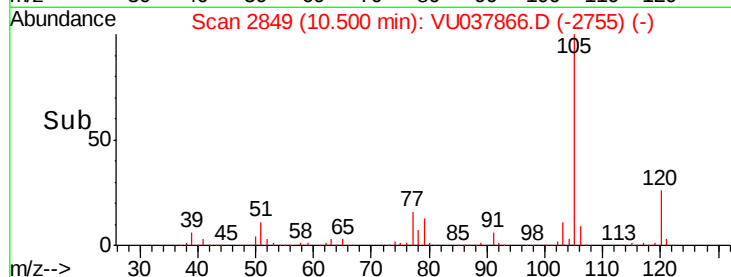
77 16.1 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 41.630 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

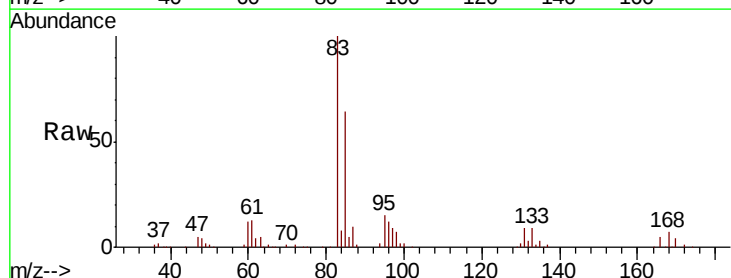
Tgt Ion: 83 Resp: 281991

Ion Ratio Lower Upper

83 100

85 63.9 43.8 81.4

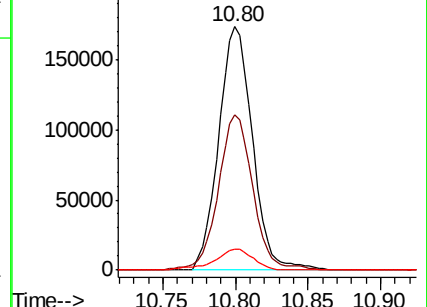
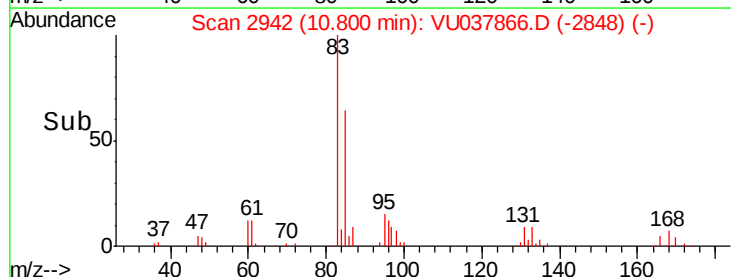
131 8.6 7.2 10.8

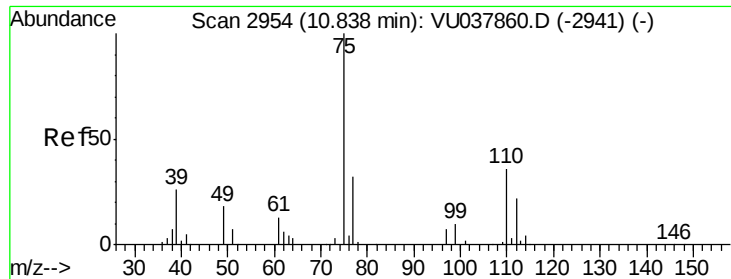


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

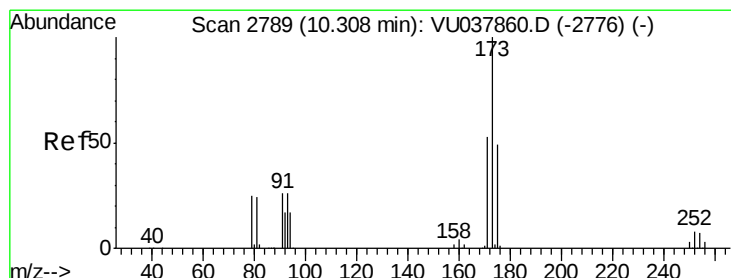
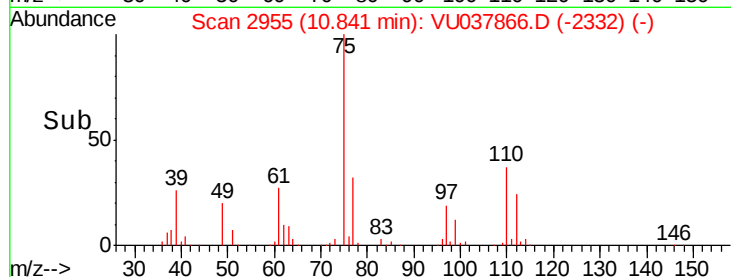
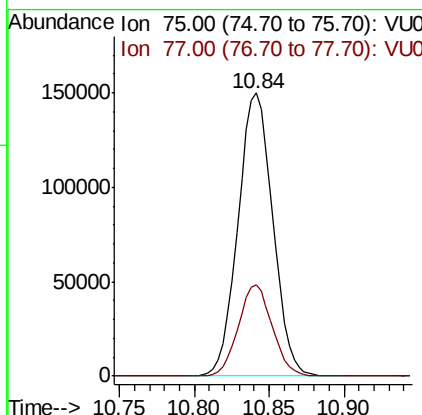
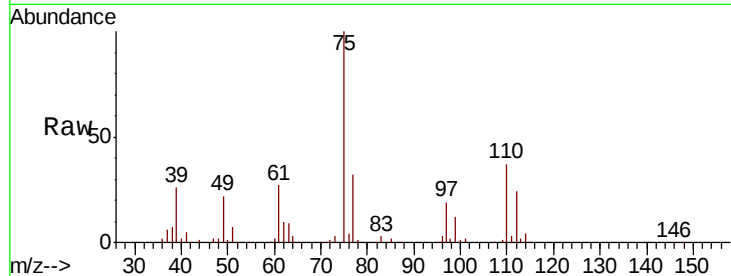




#59
 1,2,3-Trichloropropane
 Concen: 41.399 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. 0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

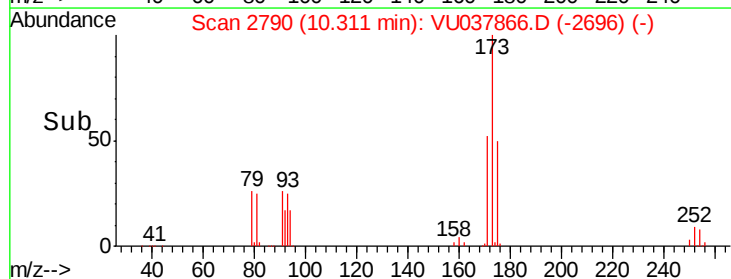
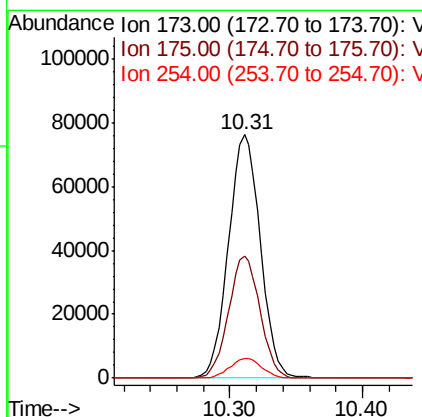
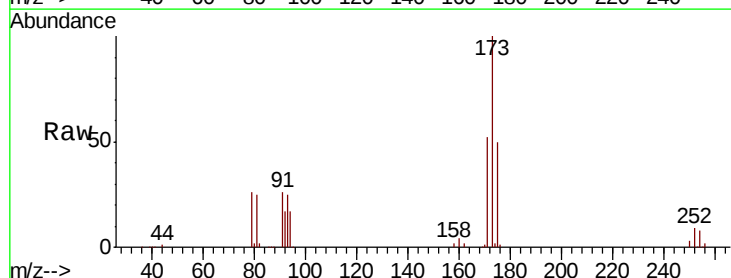
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD05048

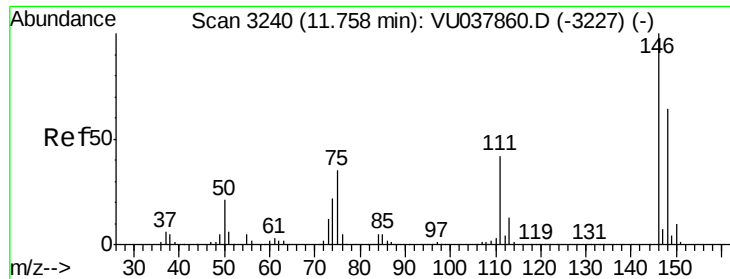
Tot Ion: 75 Resp: 242801
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.8 38.6



#61
 Bromoform
 Concen: 42.285 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

Tgt Ion: 173 Resp: 127129
 Ion Ratio Lower Upper
 173 100
 175 49.5 38.8 58.2
 254 8.1 5.8 8.8





#62

1,3-Dichlorobenzene

Concen: 41.063 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

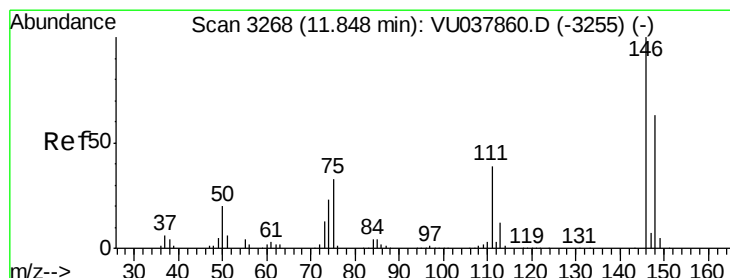
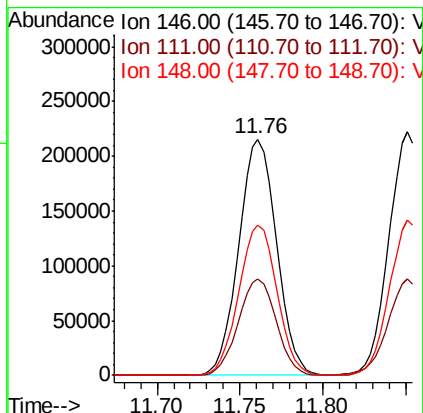
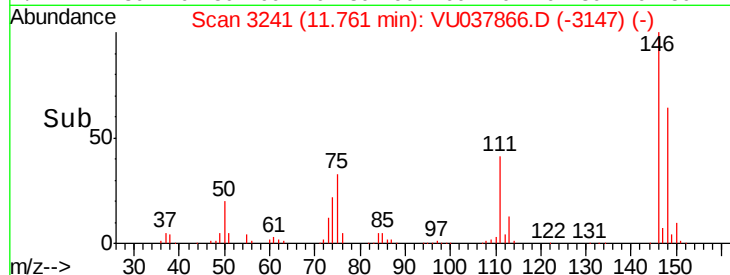
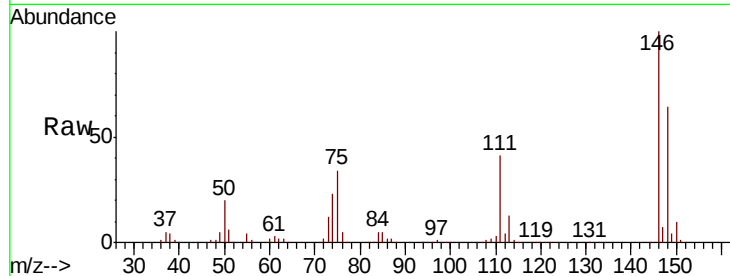
Tot Ion:146 Resp: 343466

Ion Ratio Lower Upper

146 100

111 40.9 29.0 53.9

148 63.8 44.5 82.7



#63

1,4-Dichlorobenzene

Concen: 40.945 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

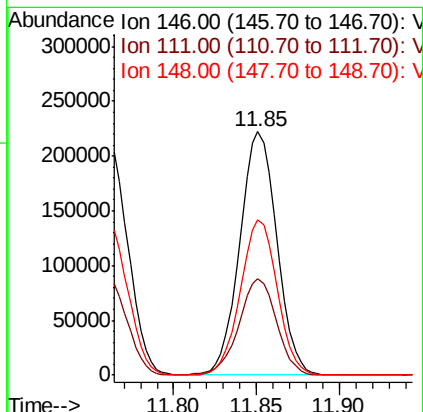
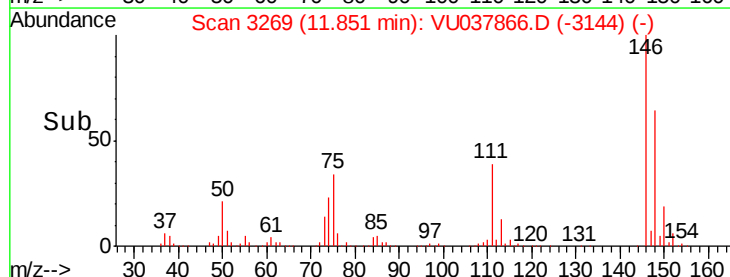
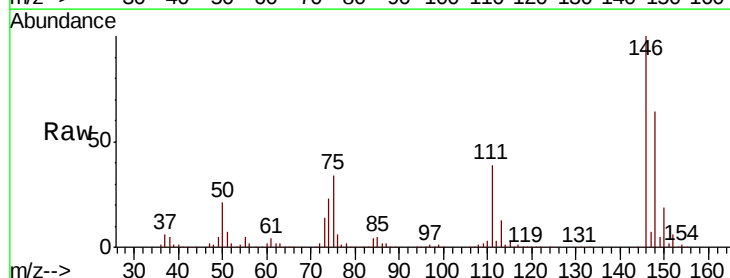
Tgt Ion:146 Resp: 345668

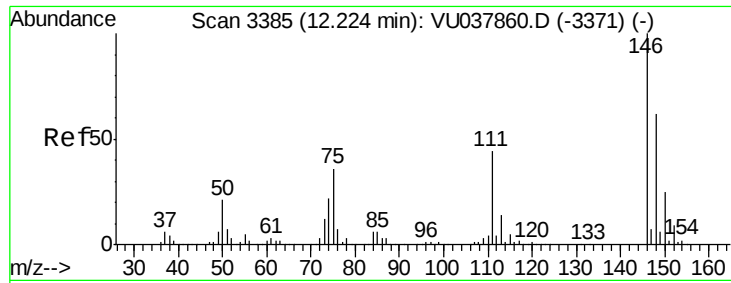
Ion Ratio Lower Upper

146 100

111 39.4 27.2 50.4

148 63.6 43.9 81.5

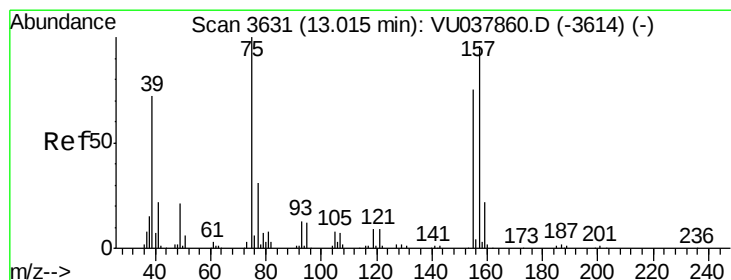
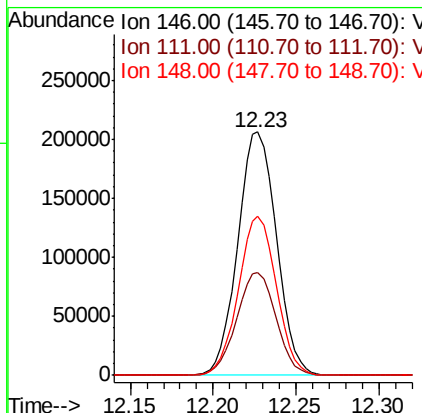
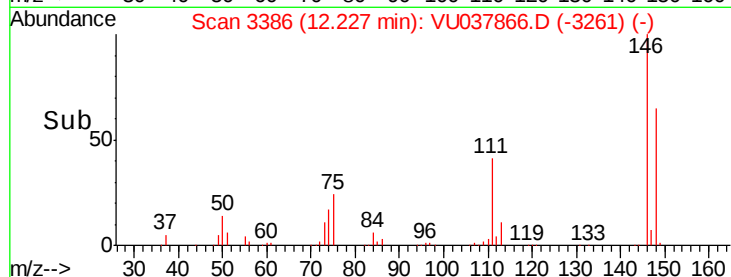
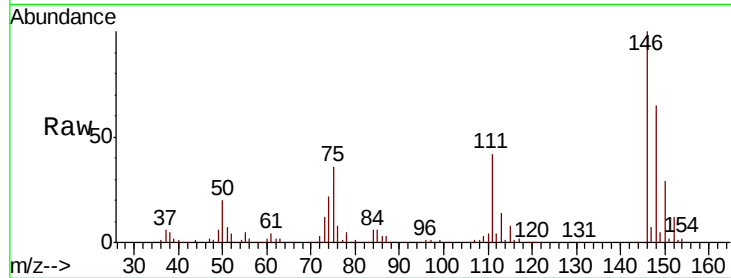




#65
 1,2-Dichlorobenzene
 Concen: 41.351 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

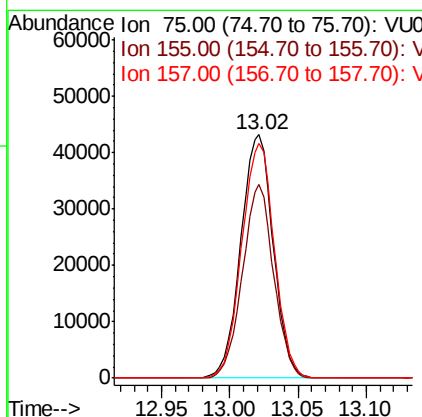
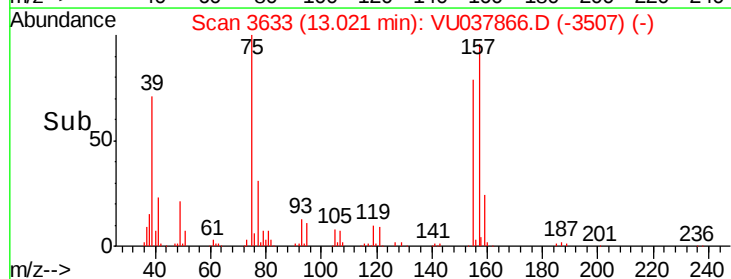
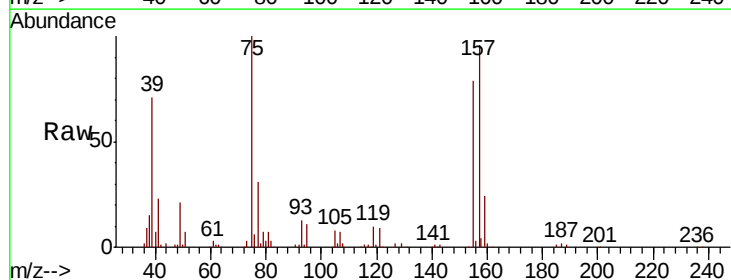
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD05048

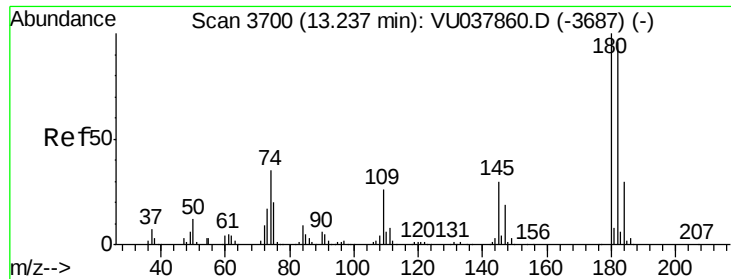
Tot Ion:146 Resp: 336096
 Ion Ratio Lower Upper
 146 100
 111 42.4 35.4 53.2
 148 65.3 49.8 74.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 39.314 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.01 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

Tgt Ion: 75 Resp: 71214
 Ion Ratio Lower Upper
 75 100
 155 79.4 59.6 89.4
 157 96.4 77.2 115.8

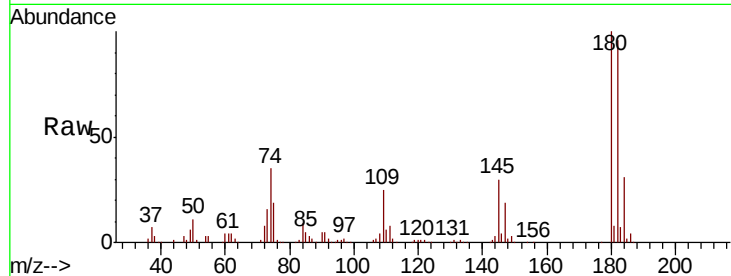




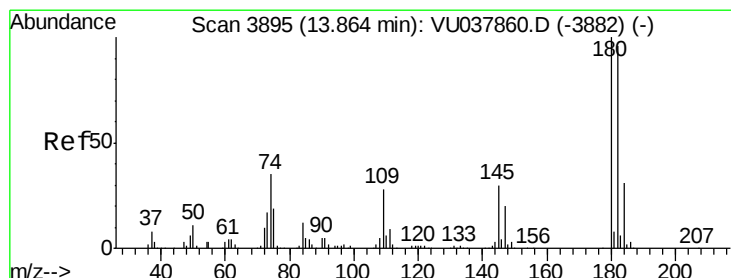
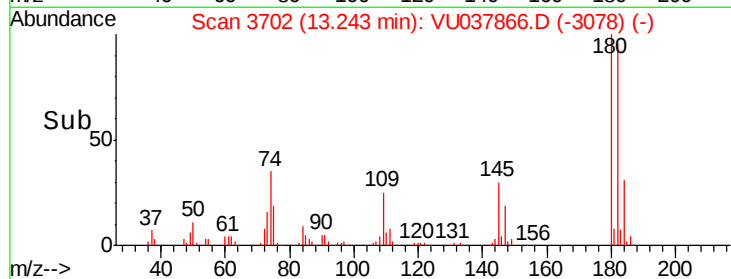
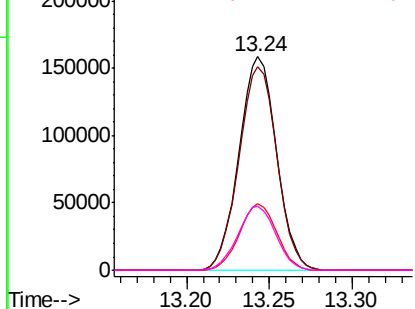
#67
 1,3,5-Trichlorobenzene
 Concen: 40.987 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.01 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTD05048

Tot Ion:180	Resp:	249143
Ion Ratio	Lower	Upper
180	100	
182	96.3	76.5 114.7
184	30.8	24.2 36.4
145	30.3	24.2 36.4

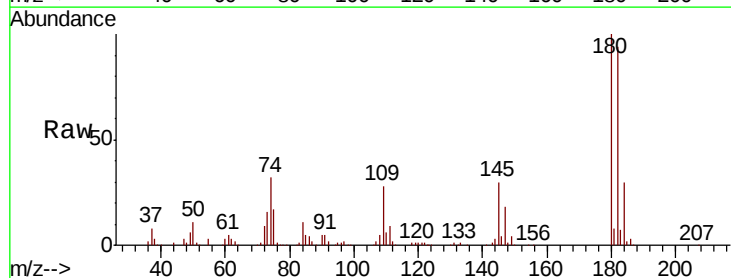


Abundance Ion 180.00 (179.70 to 180.70): V
 250000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

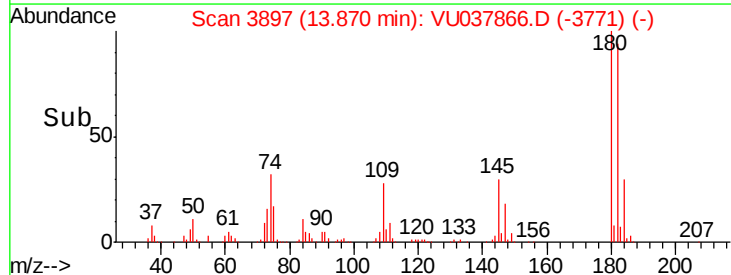
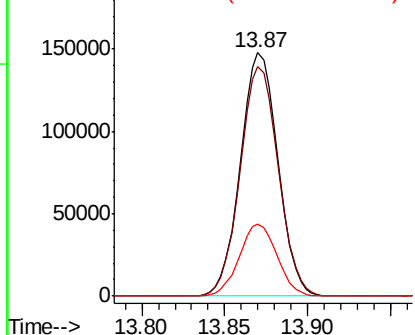


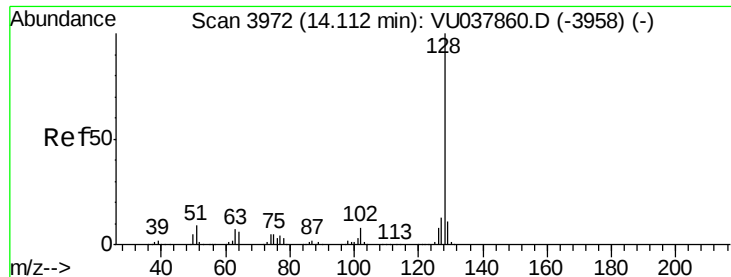
#68
 1,2,4-trichlorobenzene
 Concen: 39.321 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.01 min
 Lab File: VU037866.D
 Acq: 24 Apr 2020 09:27

Tgt Ion:180	Resp:	232464
Ion Ratio	Lower	Upper
180	100	
182	96.1	76.9 115.3
145	29.9	23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V
 200000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 37.018 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

Instrument :

MSVOA_X

ClientSampleId :

VSTD05048

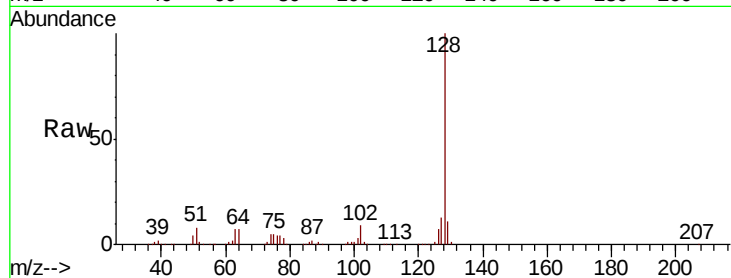
Tot Ion:128 Resp: 784767

Ion Ratio Lower Upper

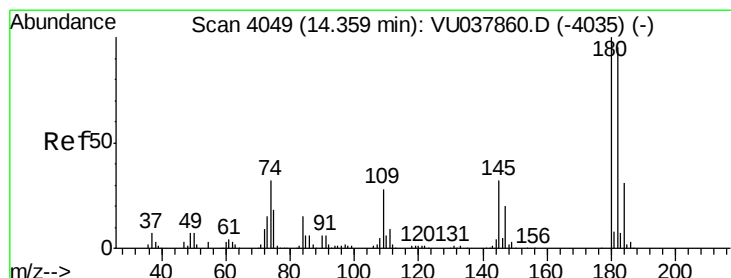
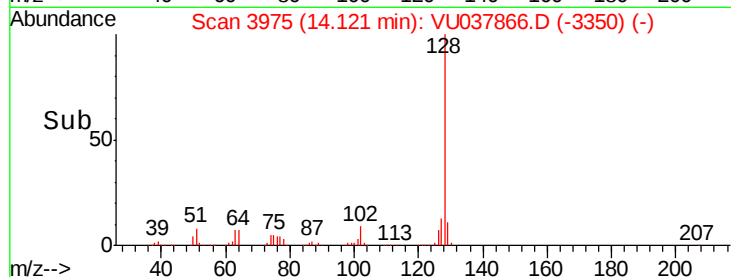
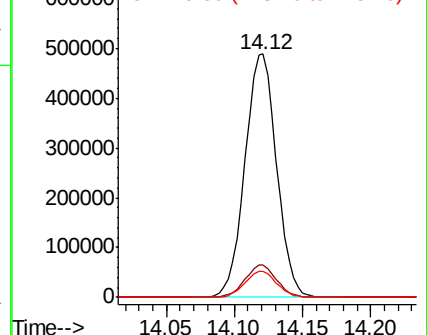
128 100

127 13.2 10.5 15.7

129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 39.834 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.01 min

Lab File: VU037866.D

Acq: 24 Apr 2020 09:27

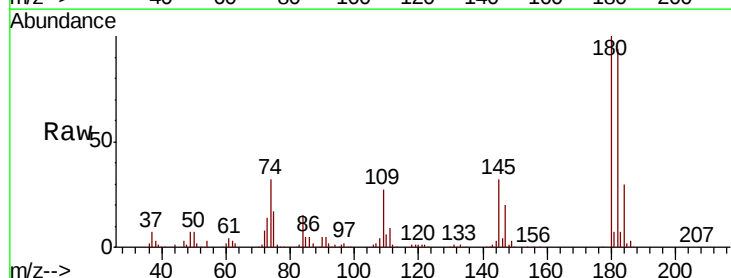
Tgt Ion:180 Resp: 232541

Ion Ratio Lower Upper

180 100

182 94.5 76.6 114.8

145 31.3 26.1 39.1



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

