

Data File : VU031877.D
Acq On : 10 May 2019 10:37
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: May 11 00:57:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 10 05:52:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1042767	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1037286	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	473038	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	388415	44.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.02%
7) Chloroethane-d5	1.67	69	320875	47.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.16%
11) 1,1-Dichloroethene-d2	2.27	63	743909	42.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.60%
21) 2-Butanone-d5	4.17	46	603253	76.29	ug/L	-0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.29%
24) Chloroform-d	4.64	84	695135	43.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.98%
26) 1,2-Dichloroethane-d4	5.30	65	438142	41.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.92%
32) Benzene-d6	5.33	84	1392047	43.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.40%
36) 1,2-Dichloropropane-d6	6.32	67	460449	41.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	82.18%
41) Toluene-d8	7.56	98	1262678	45.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.02%
43) trans-1,3-Dichloropropene-	7.85	79	203370	42.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.56%
47) 2-Hexanone-d5	8.31	63	429455	88.54	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.54%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	666327	44.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.62%
64) 1,2-Dichlorobenzene-d4	11.85	152	452309	45.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.94%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	510310	44.504	ug/L	100
3) Chloromethane	1.32	50	556667	40.124	ug/L	99
5) Vinyl chloride	1.40	62	563365	43.433	ug/L	99
6) Bromomethane	1.61	94	316886	46.327	ug/L	99
8) Chloroethane	1.69	64	330233	46.576	ug/L	99
9) Trichlorofluoromethane	1.88	101	634102	42.884	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	384289	45.975	ug/L	99
12) 1,1-Dichloroethene	2.28	96	374537	46.036	ug/L	82
13) Acetone	2.32	43	693487	77.859	ug/L	97
14) Carbon disulfide	2.47	76	1192076	44.155	ug/L	100
15) Methyl Acetate	2.61	43	468697	34.777	ug/L #	90
16) Methylene chloride	2.70	84	441464	45.980	ug/L	90
17) trans-1,2-Dichloroethene	2.98	96	386762	45.623	ug/L	90
18) Methyl tert-butyl Ether	2.99	73	1194199	44.215	ug/L	96
19) 1,1-Dichloroethane	3.44	63	771718	43.225	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	429407	47.221	ug/L	95
22) 2-Butanone	4.26	43	788547	79.910	ug/L	89

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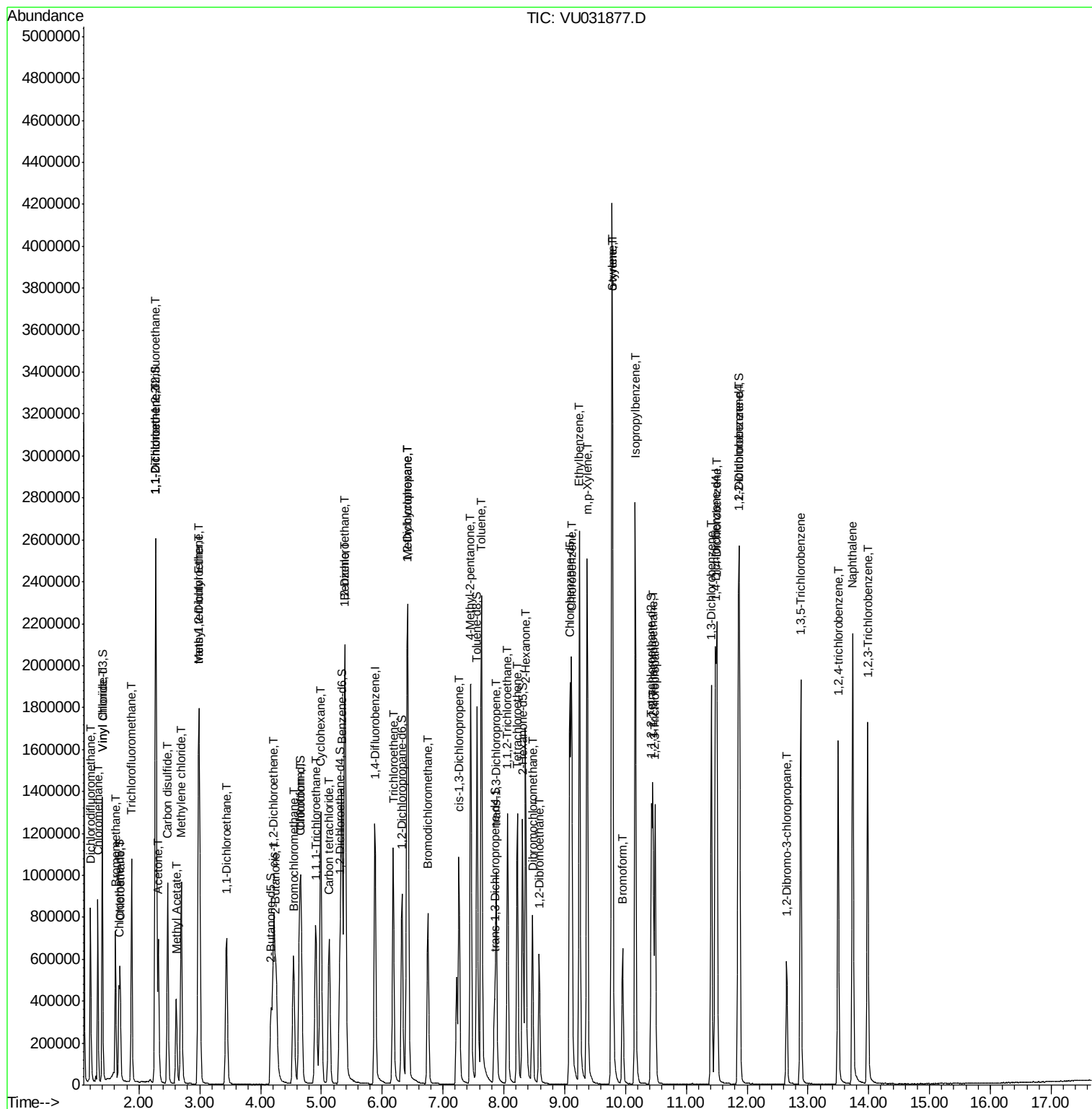
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	200661	45.411	ug/L	85
25) Chloroform	4.67	83	740473	43.372	ug/L	100
27) 1,2-Dichloroethane	5.40	62	600070	43.272	ug/L	99
29) Cyclohexane	4.99	56	702148	42.770	ug/L	91
30) 1,1,1-Trichloroethane	4.91	97	580395	39.935	ug/L	99
31) Carbon tetrachloride	5.13	117	492396	39.638	ug/L	99
33) Benzene	5.38	78	1722733	45.172	ug/L	100
34) Trichloroethene	6.18	95	417713	45.185	ug/L	99
35) Methylcyclohexane	6.41	83	701032	50.600	ug/L	93
37) 1,2-Dichloropropane	6.43	63	466604	43.097	ug/L	99
38) Bromodichloromethane	6.75	83	552928	42.120	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	674817	47.170	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	1255051	75.345	ug/L #	94
42) Toluene	7.63	91	1820867	47.931	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	577967	44.542	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	407637	45.671	ug/L	99
46) Tetrachloroethene	8.22	164	289206	45.889	ug/L	98
48) 2-Hexanone	8.36	43	1100290	81.671	ug/L	96
49) Dibromochloromethane	8.47	129	411204	44.278	ug/L	99
50) 1,2-Dibromoethane	8.58	107	429817	45.596	ug/L	97
51) Chlorobenzene	9.12	112	1067037	47.531	ug/L	97
52) Ethylbenzene	9.24	91	1937217	49.160	ug/L	99
53) m,p-Xylene	9.37	106	705406	51.378	ug/L	96
54) o-xylene	9.77	106	707896	52.006	ug/L	93
55) Styrene	9.79	104	1226800	52.753	ug/L	97
56) Isopropylbenzene	10.16	105	1800858	50.313	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	715686	45.187	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	557322	43.417	ug/L	99
61) Bromoform	9.95	173	288271	41.111	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	754928	48.212	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	800378	49.356	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	810961	48.731	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	161705	41.867	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	580658	49.511	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	489735	52.747	ug/L	100
69) Naphthalene	13.74	128	1704508	53.845	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	532675	50.393	ug/L	100

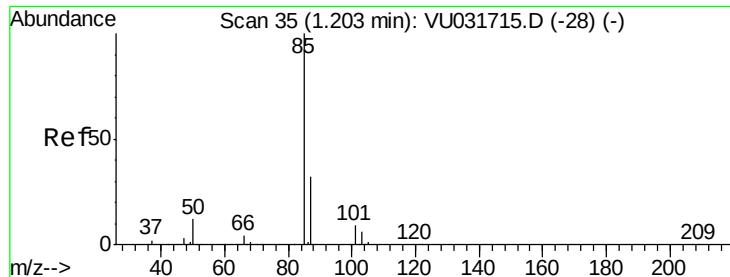
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.504 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

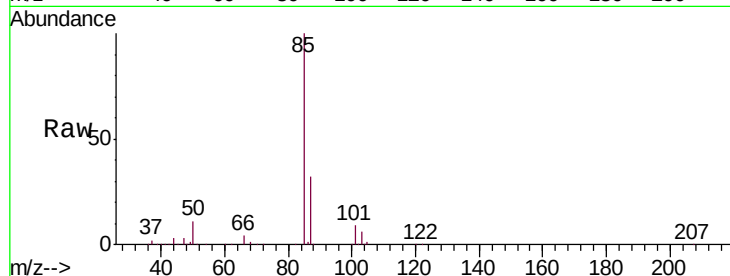
VSTD05039

Tgt Ion: 85 Resp: 510310

Ion Ratio Lower Upper

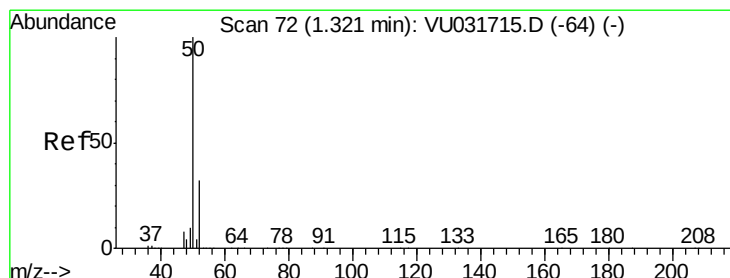
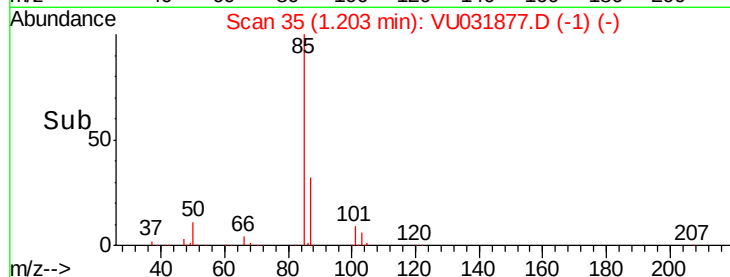
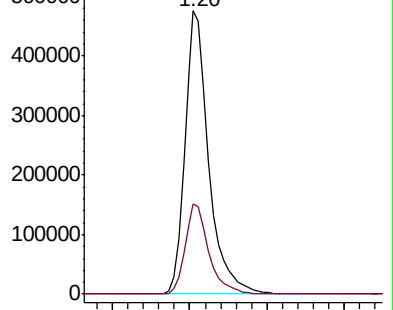
85 100

87 31.8 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031715.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031715.D (-28) (-)



#3

Chloromethane

Concen: 40.124 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031877.D

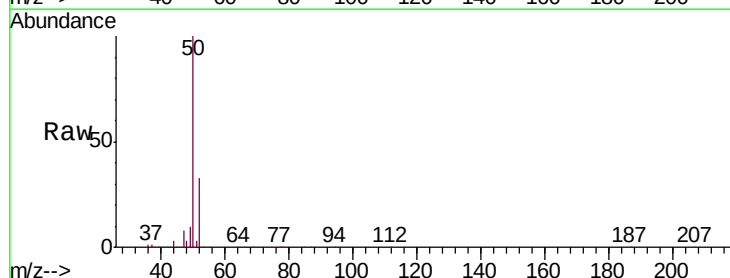
Acq: 10 May 2019 10:37

Tgt Ion: 50 Resp: 556667

Ion Ratio Lower Upper

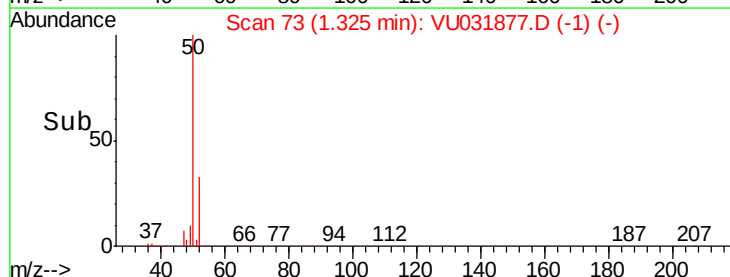
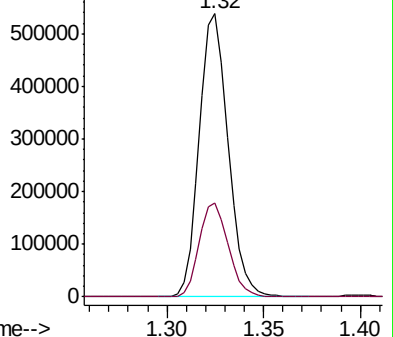
50 100

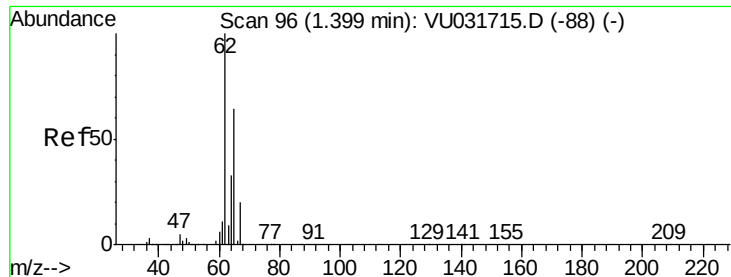
52 33.1 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031715.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031715.D (-64) (-)





#5

Vinyl chloride

Concen: 43.433 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

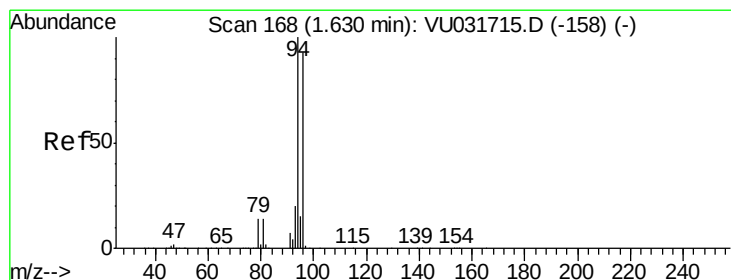
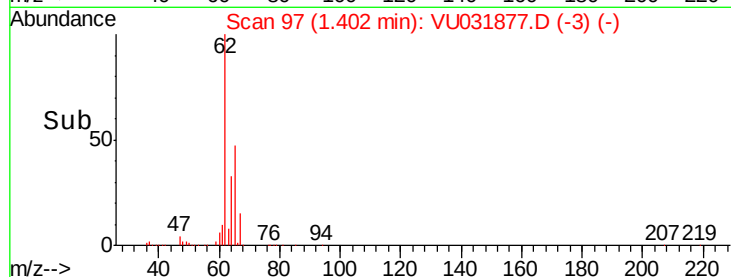
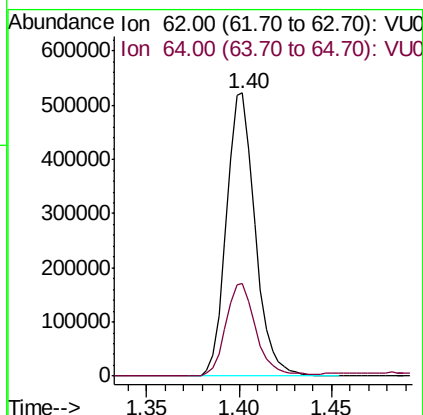
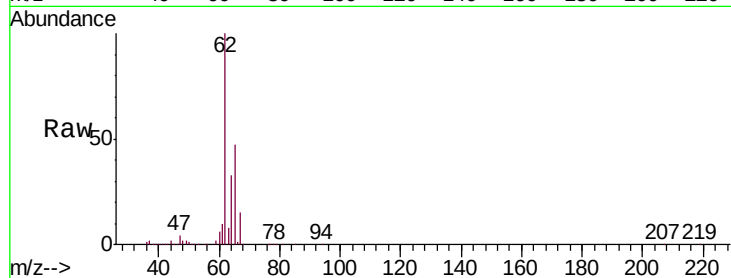
VSTD05039

Tgt Ion: 62 Resp: 563365

Ion Ratio Lower Upper

62 100

64 32.6 23.1 42.9



#6

Bromomethane

Concen: 46.327 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.02 min

Lab File: VU031877.D

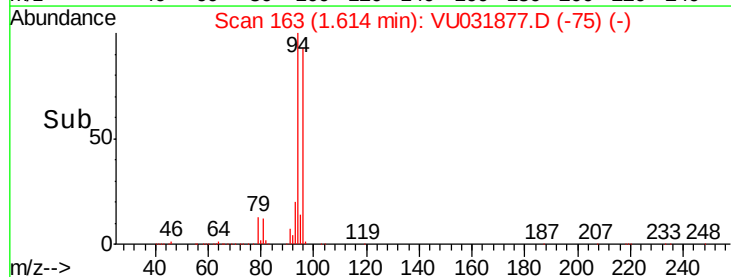
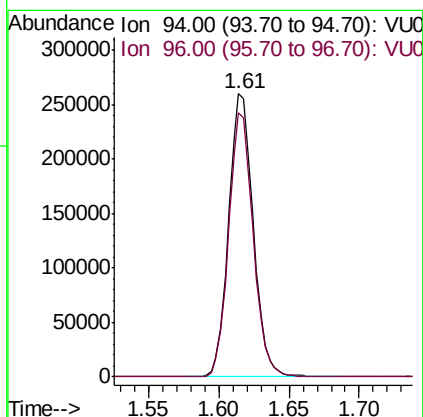
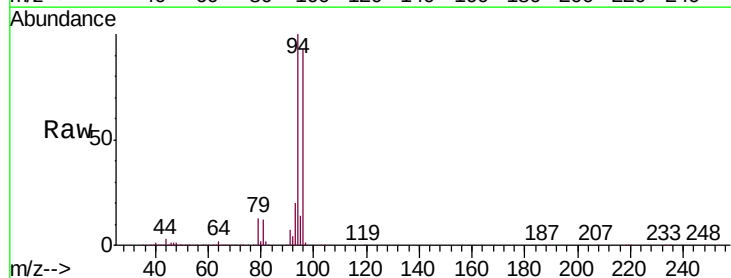
Acq: 10 May 2019 10:37

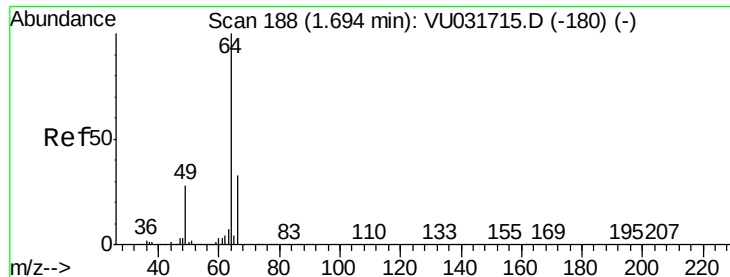
Tgt Ion: 94 Resp: 316886

Ion Ratio Lower Upper

94 100

96 93.2 65.9 122.5





#8

Chloroethane

Concen: 46.576 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.01 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

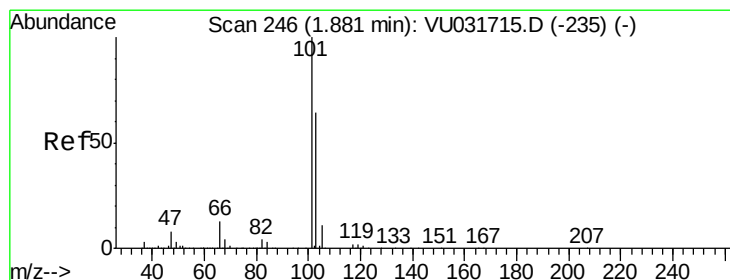
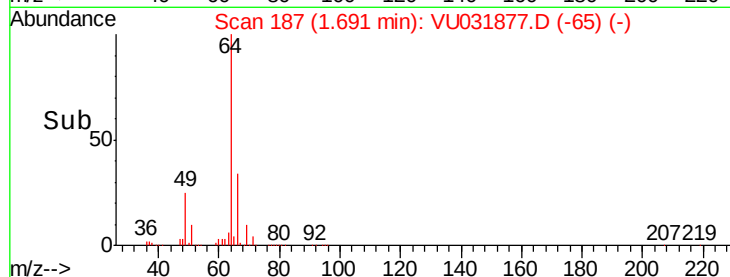
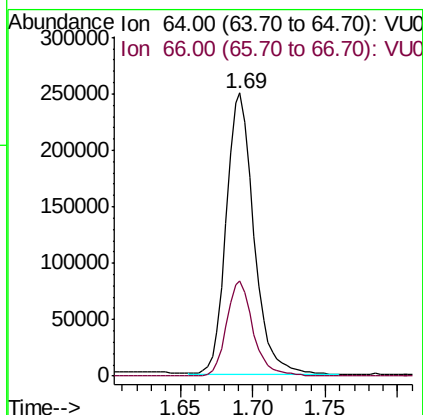
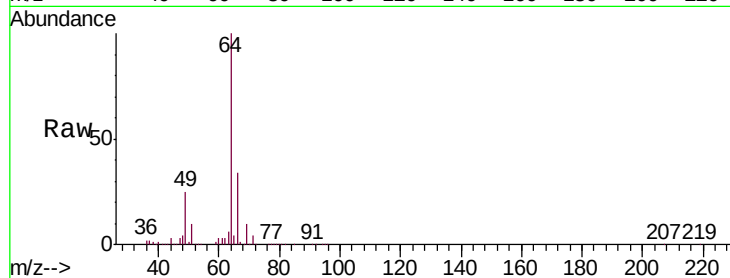
VSTD05039

Tgt Ion: 64 Resp: 330233

Ion Ratio Lower Upper

64 100

66 33.6 23.2 43.0



#9

Trichlorofluoromethane

Concen: 42.884 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031877.D

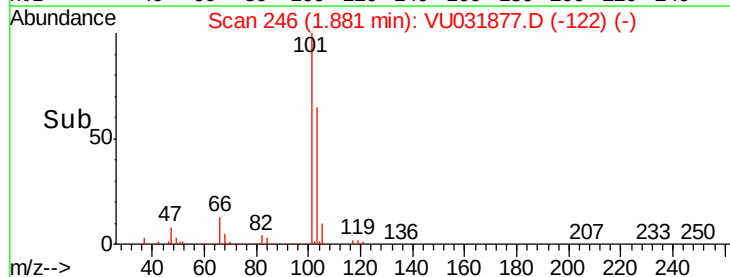
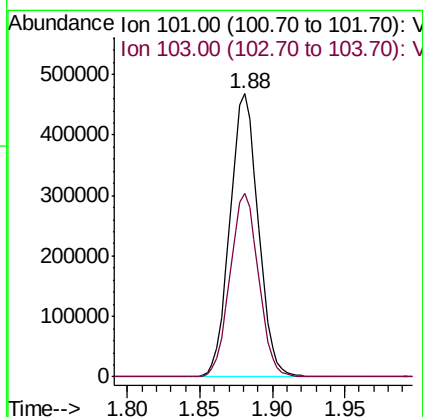
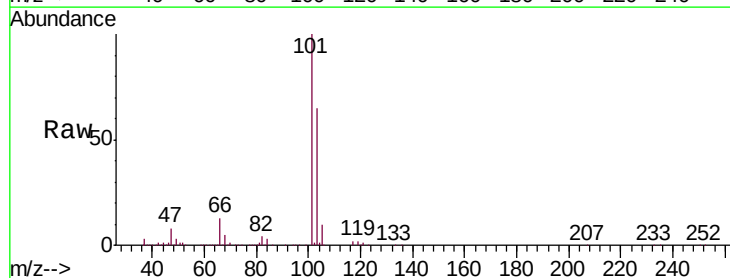
Acq: 10 May 2019 10:37

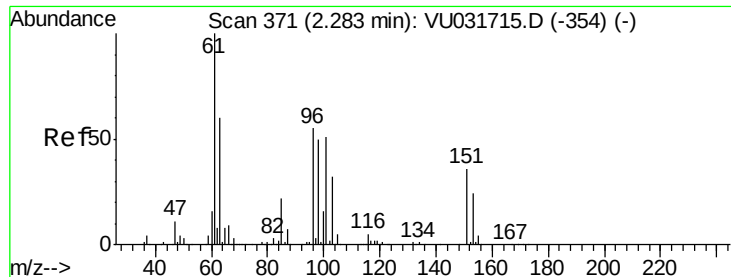
Tgt Ion: 101 Resp: 634102

Ion Ratio Lower Upper

101 100

103 65.2 50.8 76.2





#10

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

Concen: 45.975 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

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VSTD05039

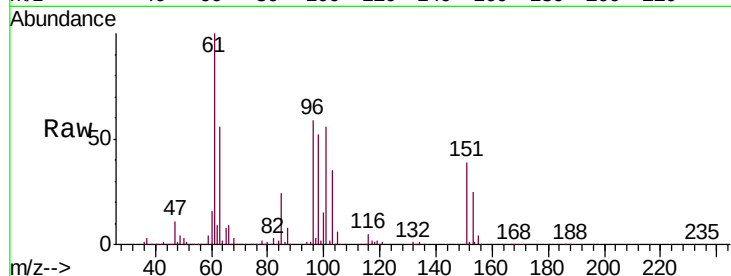
Tgt Ion: 101 Resp: 384289

Ion Ratio Lower Upper

101 100

85 44.3 36.1 54.1

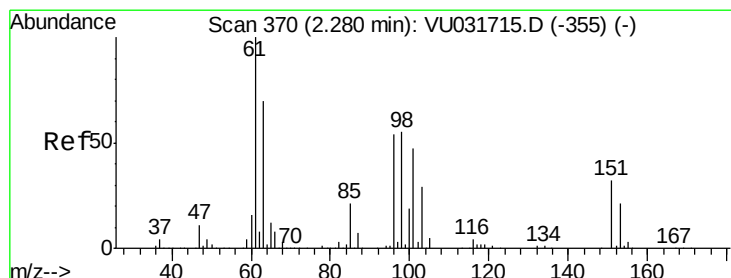
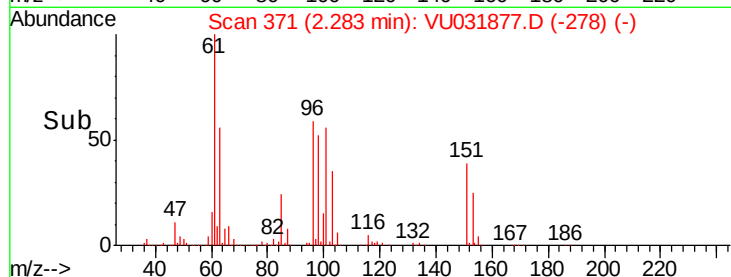
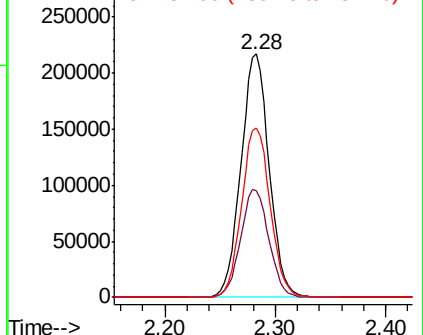
151 70.5 56.1 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.036 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

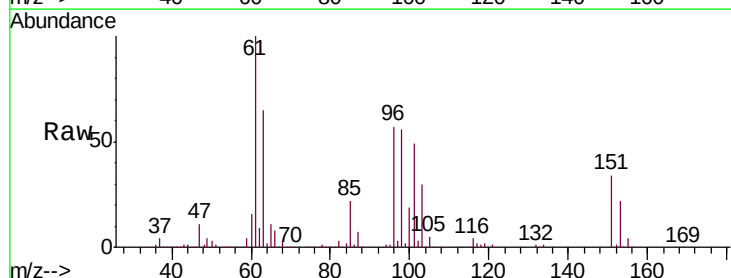
Tgt Ion: 96 Resp: 374537

Ion Ratio Lower Upper

96 100

61 175.9 135.0 250.6

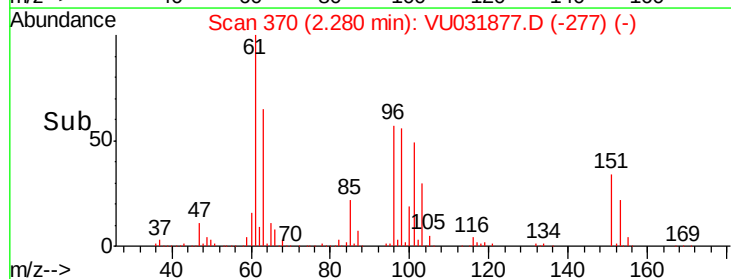
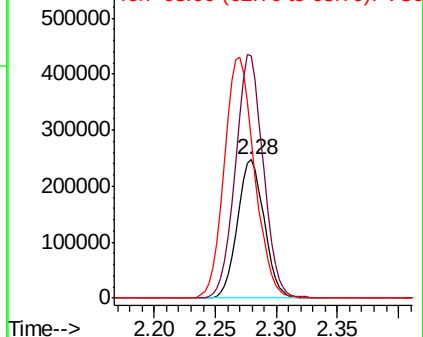
63 114.9 103.5 192.3

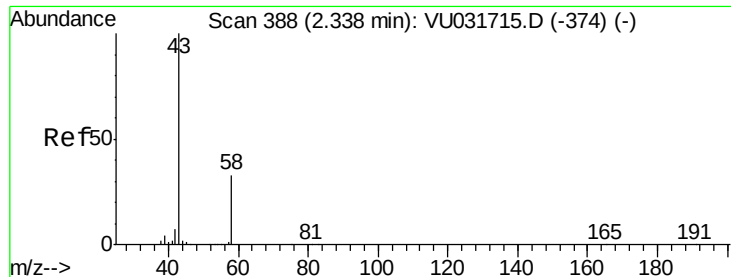


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 77.859 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.02 min

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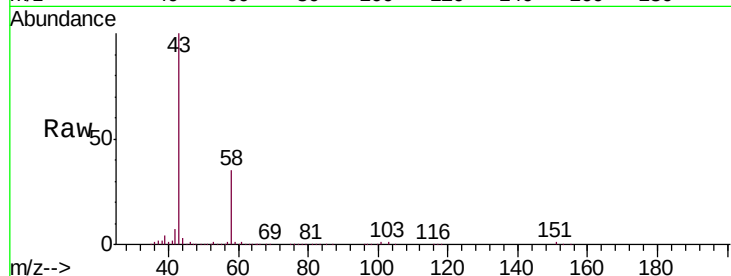
VSTD05039

Tgt Ion: 43 Resp: 693487

Ion Ratio Lower Upper

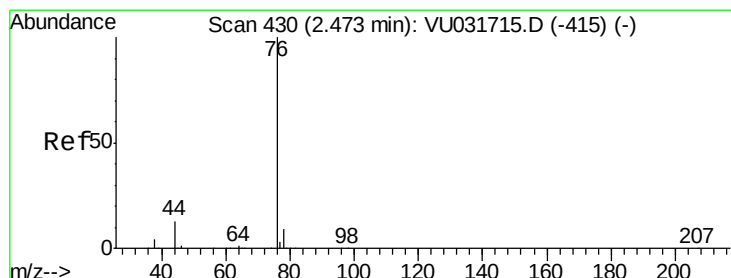
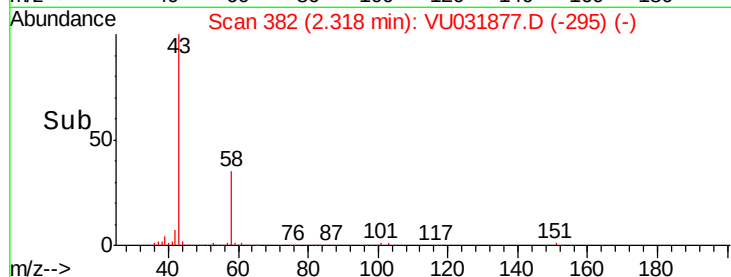
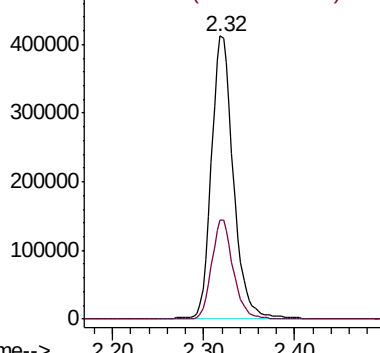
43 100

58 33.8 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031877.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031877.D (-374) (-)



#14

Carbon disulfide

Concen: 44.155 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031877.D

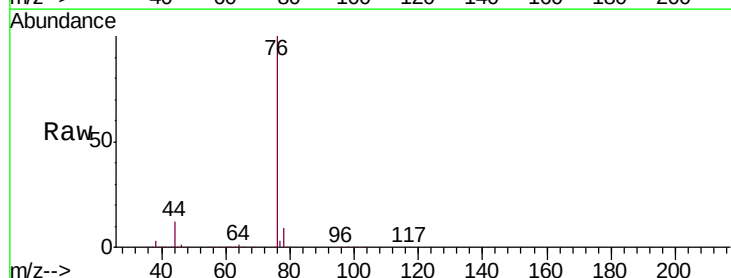
Acq: 10 May 2019 10:37

Tgt Ion: 76 Resp: 1192076

Ion Ratio Lower Upper

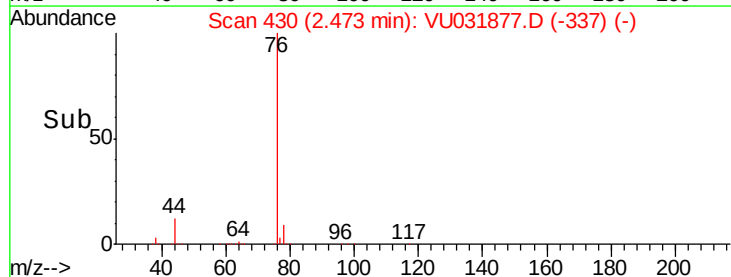
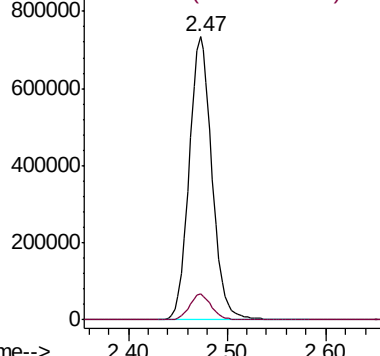
76 100

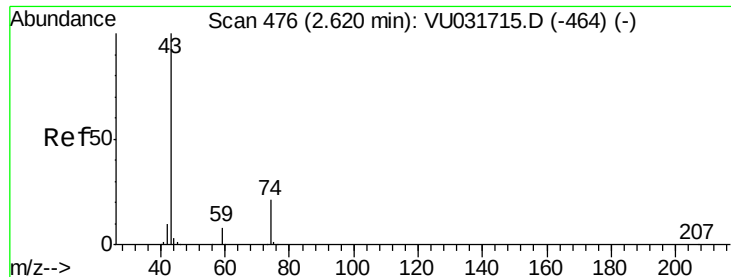
78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031877.D (-337) (-)

Ion 78.00 (77.70 to 78.70): VU031877.D (-337) (-)





#15

Methyl Acetate

Concen: 34.777 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

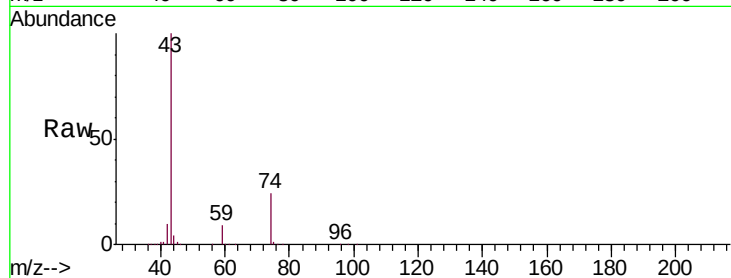
VSTD05039

Tgt Ion: 43 Resp: 468697

Ion Ratio Lower Upper

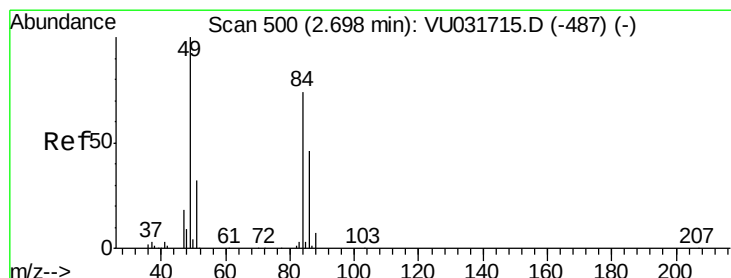
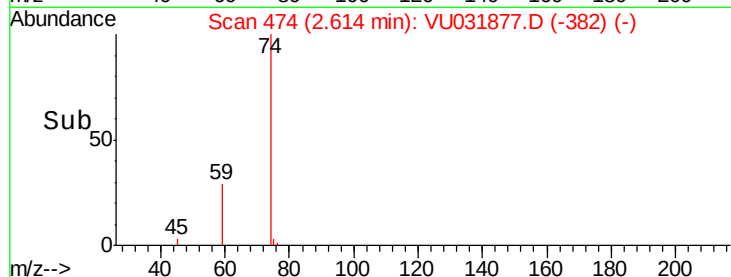
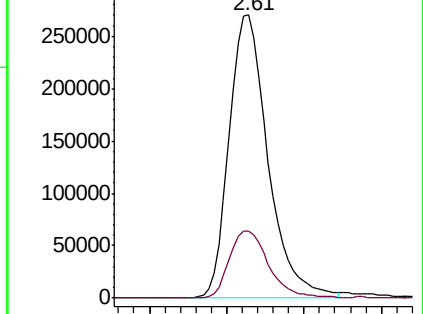
43 100

74 24.1 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VU031877.D (-382) (-)

Ion 74.00 (73.70 to 74.70): VU031877.D (-382) (-)



#16

Methylene chloride

Concen: 45.980 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

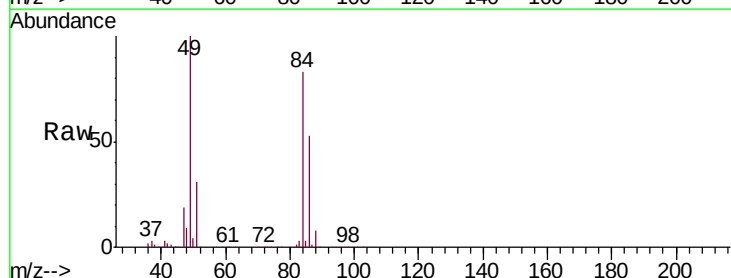
Tgt Ion: 84 Resp: 441464

Ion Ratio Lower Upper

84 100

86 64.4 44.7 83.1

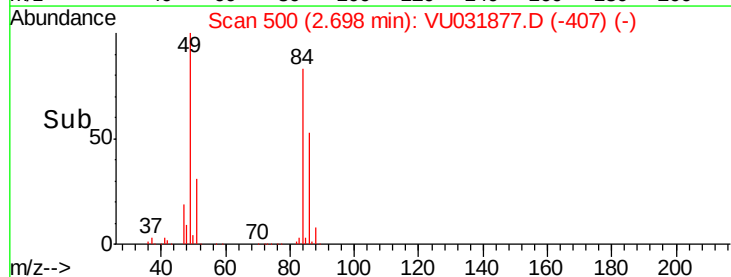
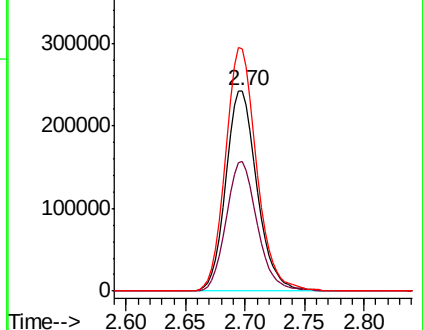
49 121.0 96.5 179.3

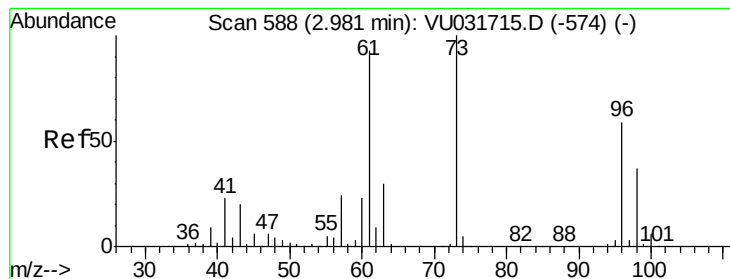


Abundance Ion 84.00 (83.70 to 84.70): VU031877.D (-407) (-)

Ion 86.00 (85.70 to 86.70): VU031877.D (-407) (-)

Ion 49.00 (48.70 to 49.70): VU031877.D (-407) (-)





#17

trans-1,2-Dichloroethene

Concen: 45.623 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

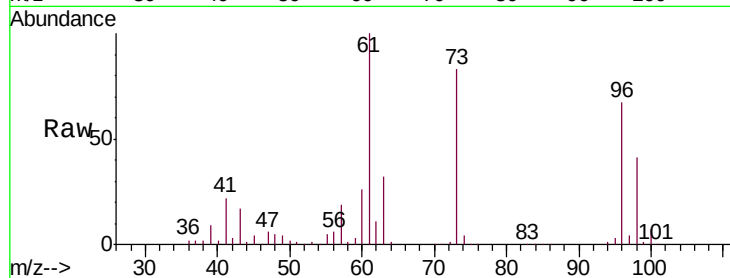
Tgt Ion: 96 Resp: 386762

Ion Ratio Lower Upper

96 100

61 148.5 114.5 212.7

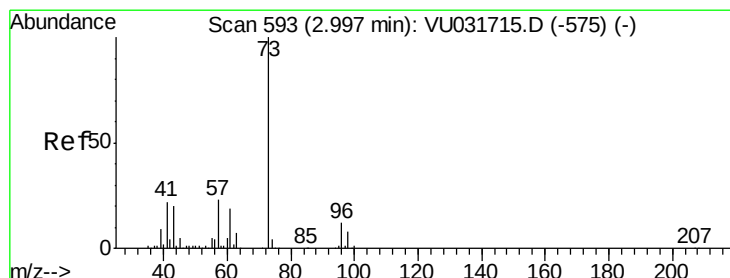
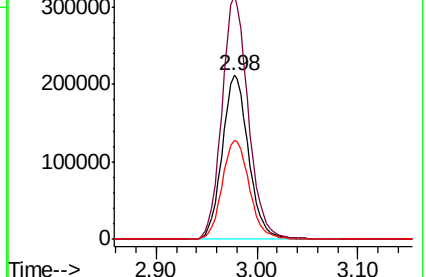
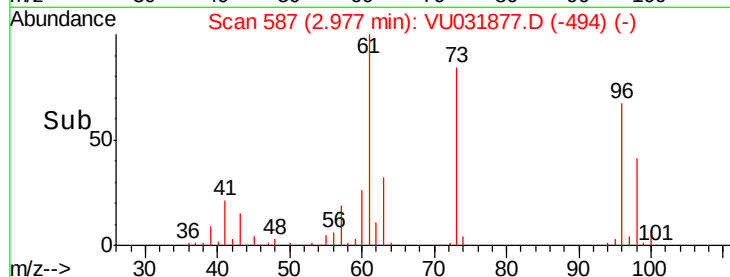
98 60.7 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031715.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031715.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031715.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 44.215 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

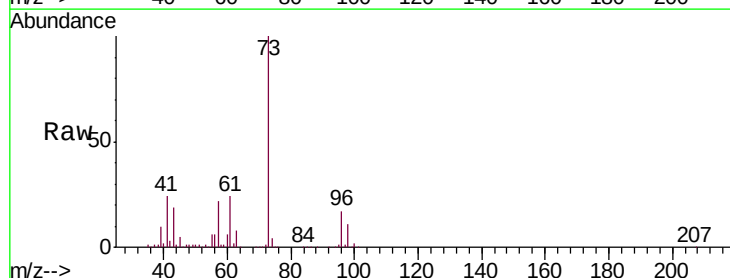
Tgt Ion: 73 Resp: 1194199

Ion Ratio Lower Upper

73 100

43 18.7 17.0 25.4

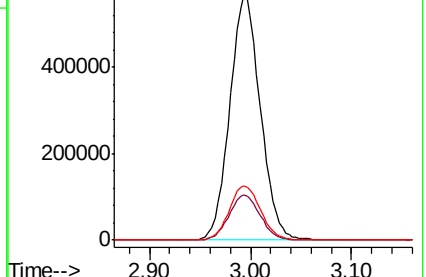
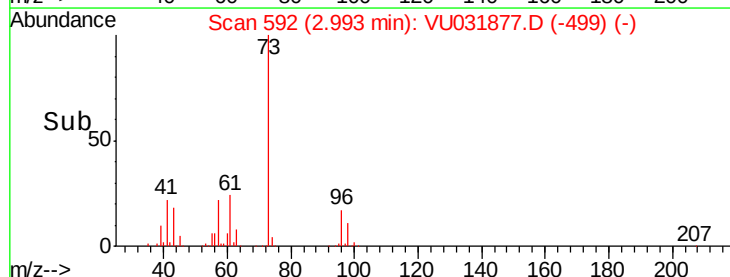
57 22.8 19.5 29.3

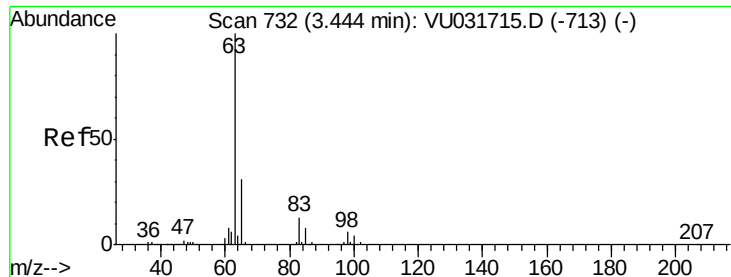


Abundance Ion 73.00 (72.70 to 73.70): VU031715.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031715.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031715.D (-575) (-)

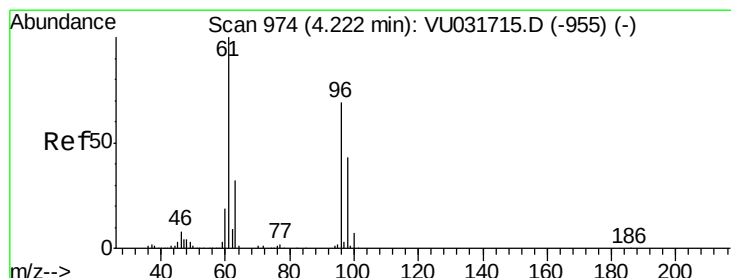
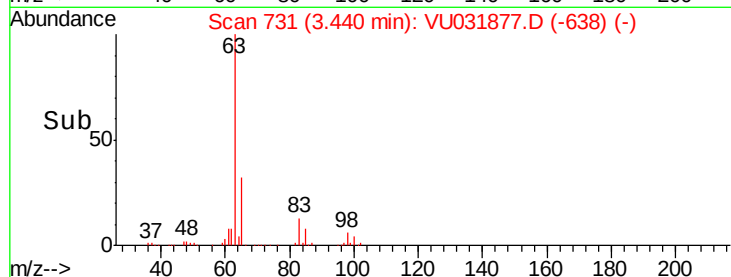
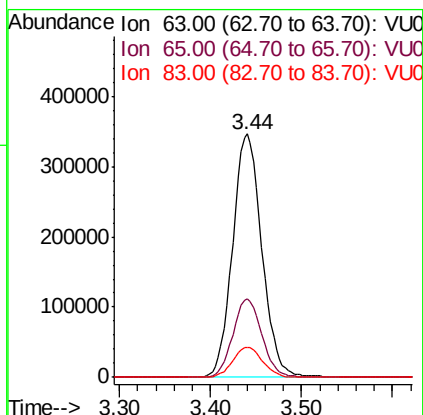
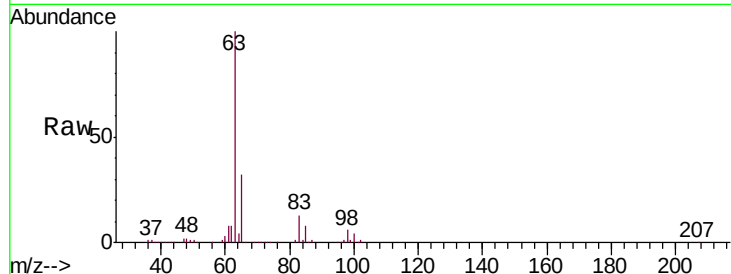




#19
 1,1-Dichloroethane
 Concen: 43.225 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

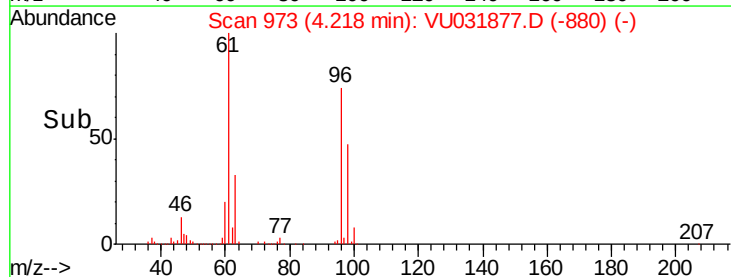
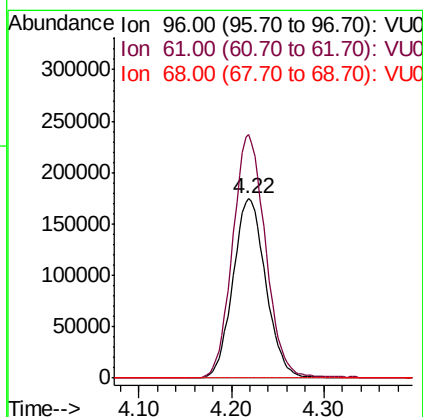
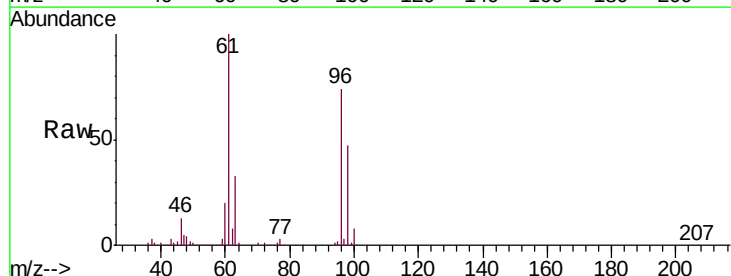
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

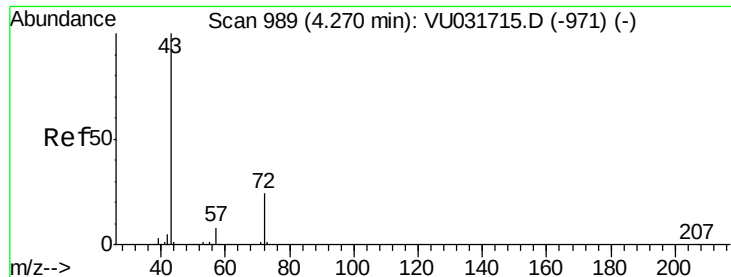
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.4	22.0	40.8
83	12.5	8.8	16.4



#20
 cis-1,2-Dichloroethene
 Concen: 47.221 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.0	99.5	184.7
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 79.910 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.01 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

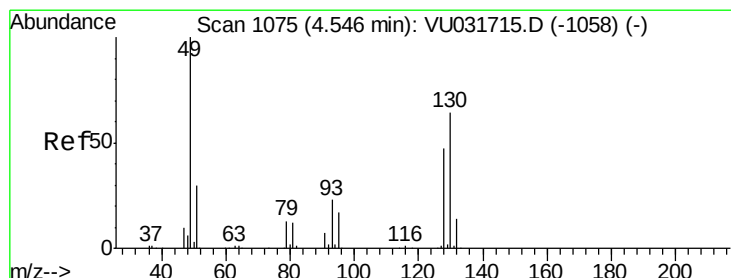
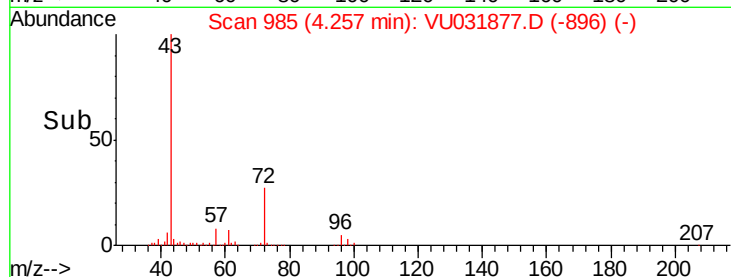
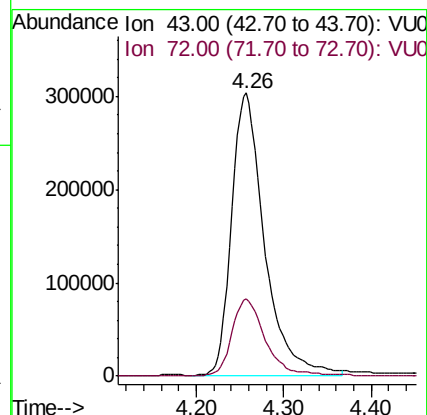
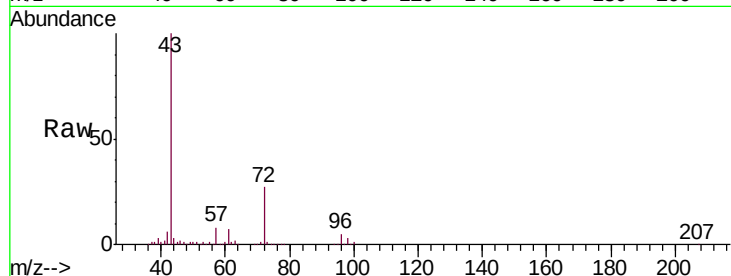
VSTD05039

Tgt Ion: 43 Resp: 788547

Ion Ratio Lower Upper

43 100

72 28.0 11.4 34.2



#23

Bromochloromethane

Concen: 45.411 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Tgt Ion: 128 Resp: 200661

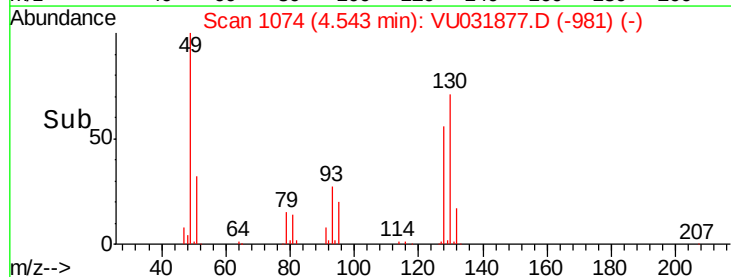
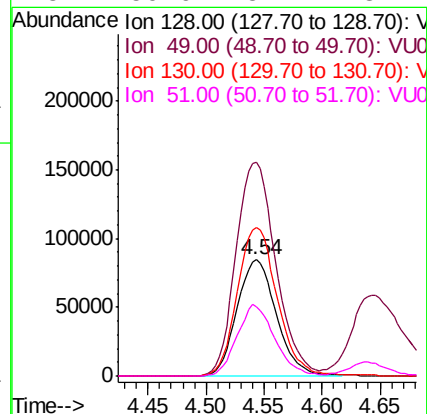
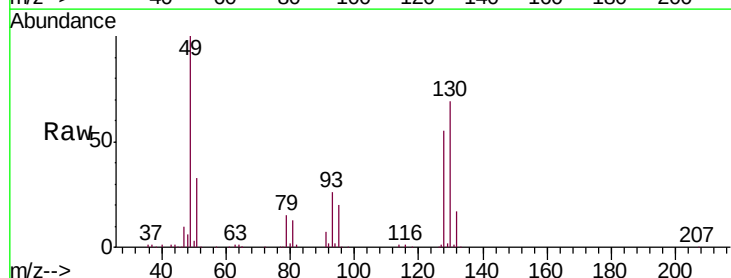
Ion Ratio Lower Upper

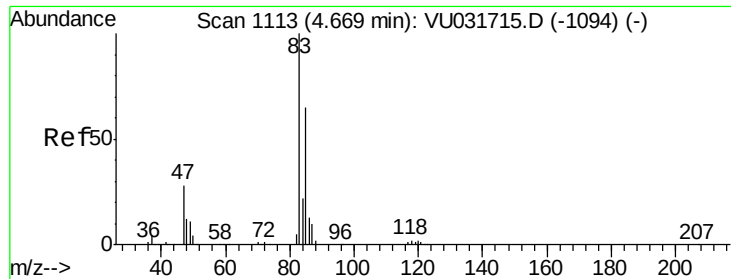
128 100

49 183.5 152.6 283.4

130 127.4 93.7 173.9

51 59.9 54.2 81.4

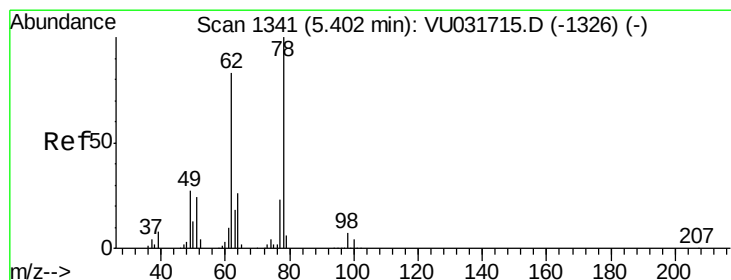
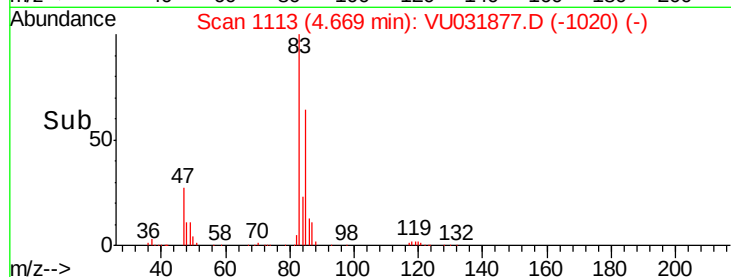
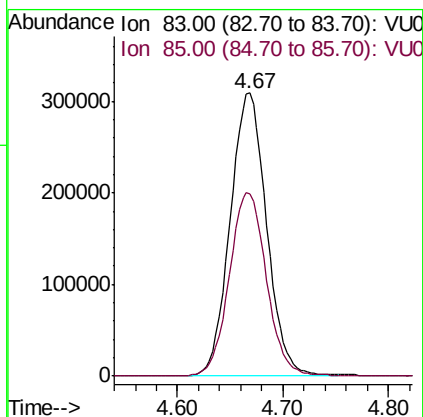
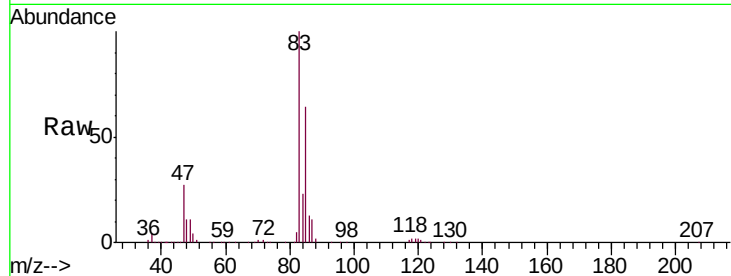




#25
Chloroform
Concen: 43.372 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

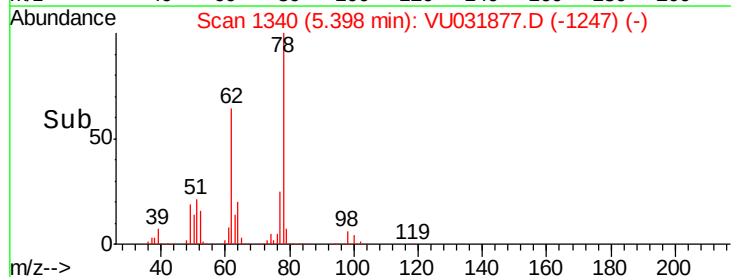
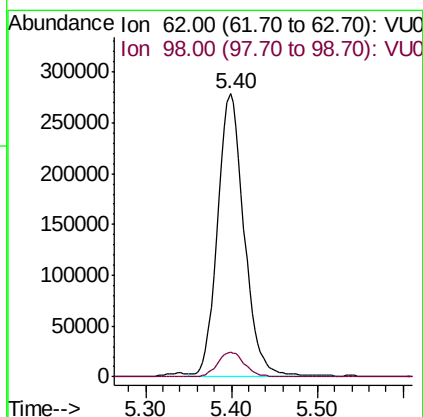
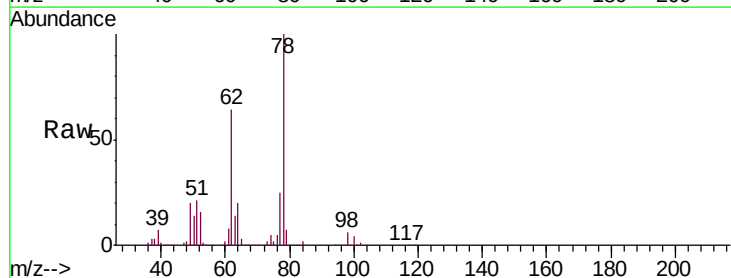
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

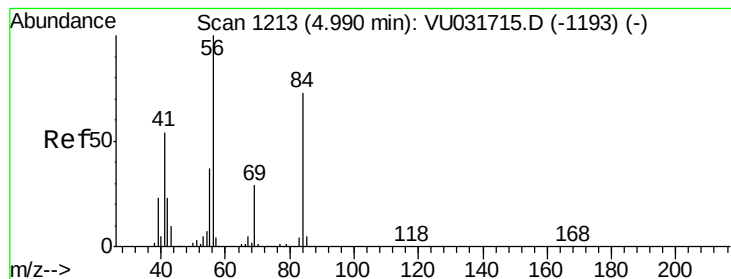
Tgt Ion: 83 Resp: 740473
Ion Ratio Lower Upper
83 100
85 64.2 44.9 83.3



#27
1,2-Dichloroethane
Concen: 43.272 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

Tgt Ion: 62 Resp: 600070
Ion Ratio Lower Upper
62 100
98 8.7 7.1 10.7





#29

Cyclohexane

Concen: 42.770 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

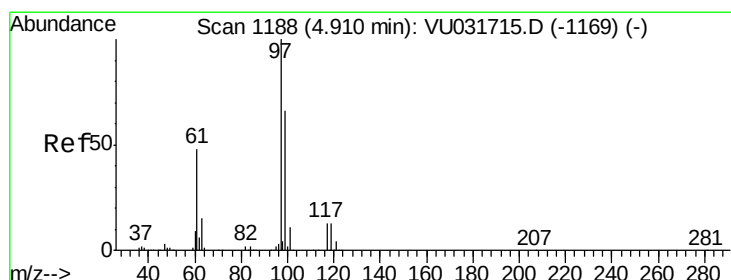
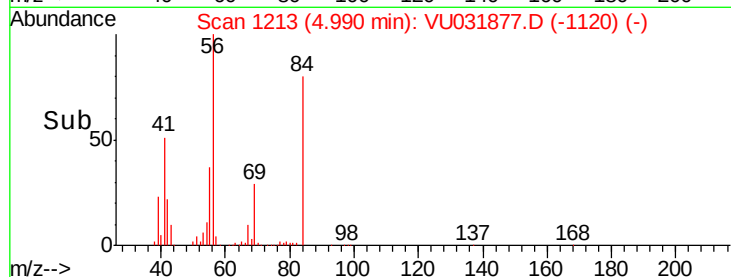
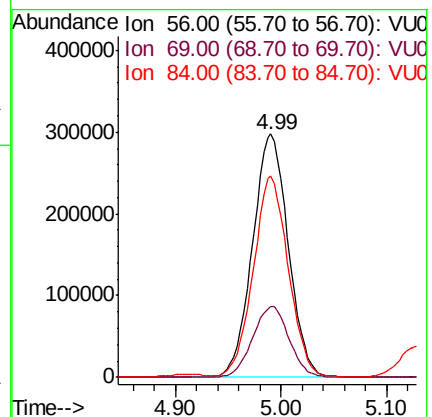
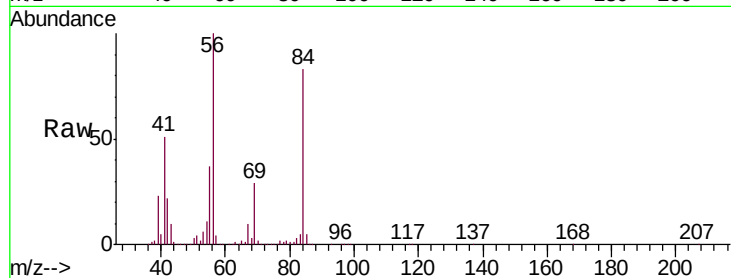
Tgt Ion: 56 Resp: 702148

Ion Ratio Lower Upper

56 100

69 29.9 22.3 33.5

84 81.0 57.5 86.3



#30

1,1,1-Trichloroethane

Concen: 39.935 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

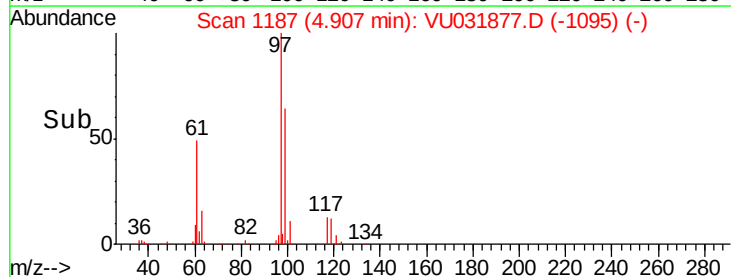
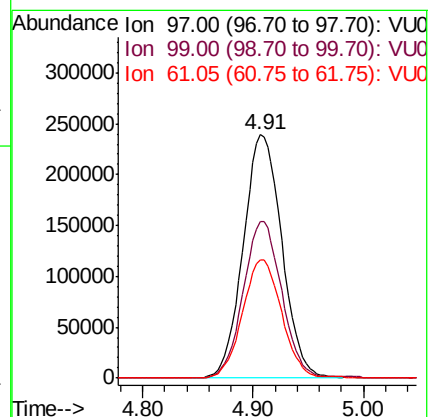
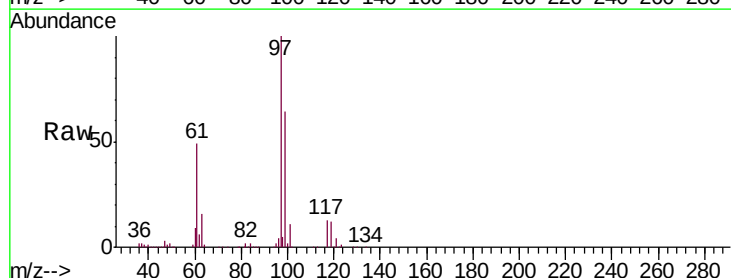
Tgt Ion: 97 Resp: 580395

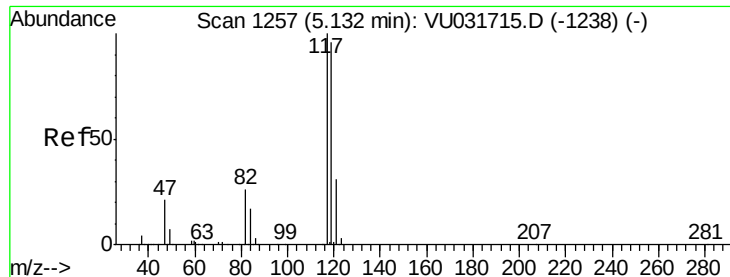
Ion Ratio Lower Upper

97 100

99 64.1 52.0 78.0

61 49.5 38.7 58.1





#31

Carbon tetrachloride

Concen: 39.638 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

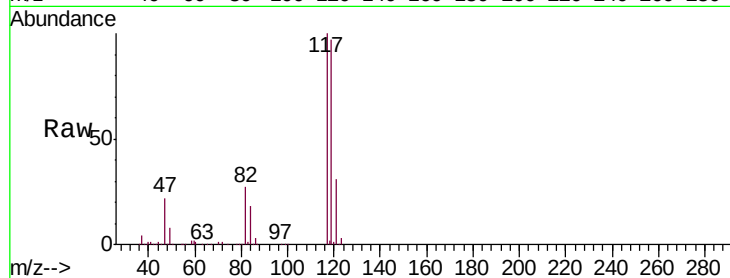
VSTD05039

Tgt Ion:117 Resp: 492396

Ion Ratio Lower Upper

117 100

119 96.6 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

250000

200000

150000

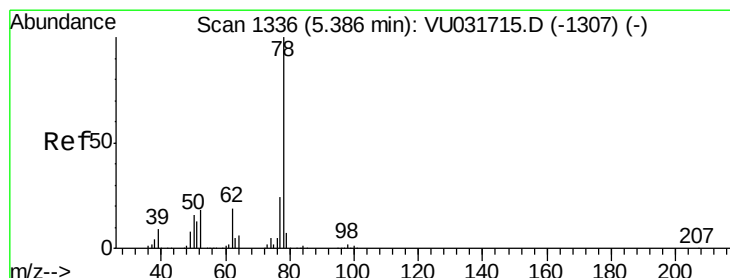
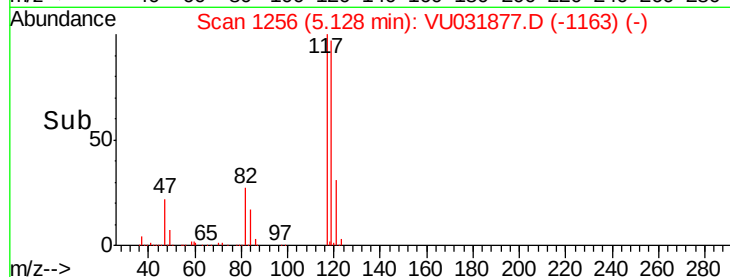
100000

50000

0

5.05 5.10 5.15 5.20

Time-->



#33

Benzene

Concen: 45.172 ug/L

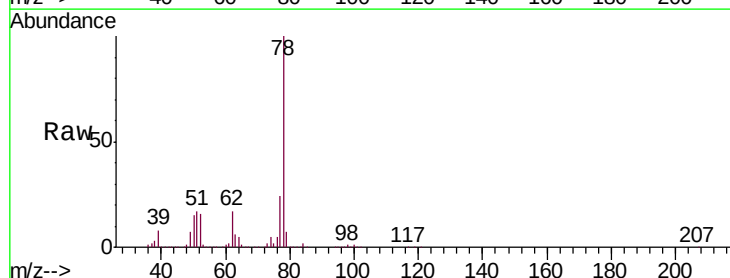
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Tgt Ion: 78 Resp: 1722733



Abundance Ion 78.00 (77.70 to 78.70): VU0

800000

600000

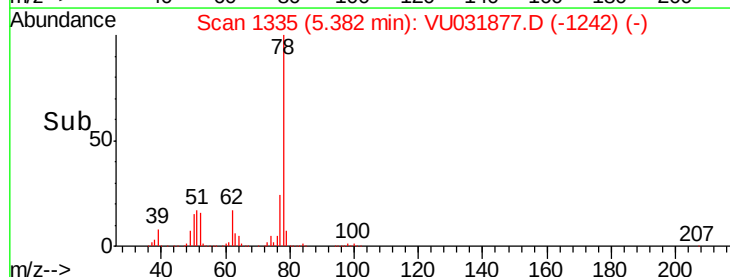
400000

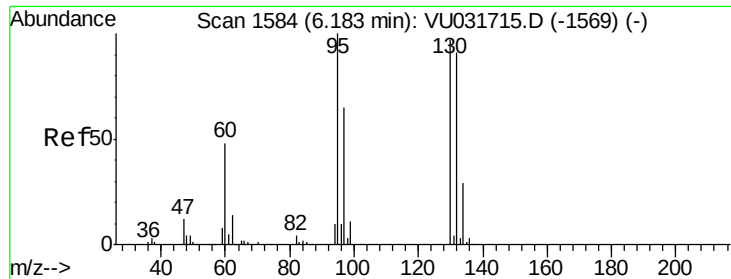
200000

0

5.20 5.30 5.40 5.50

Time-->

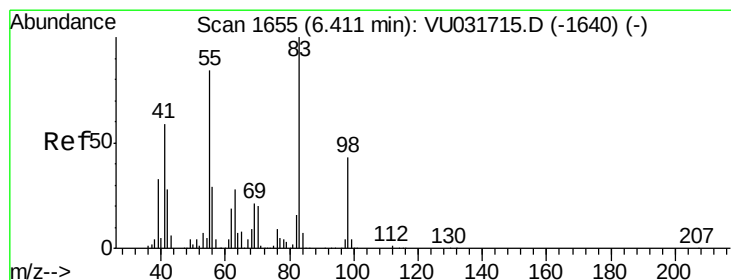
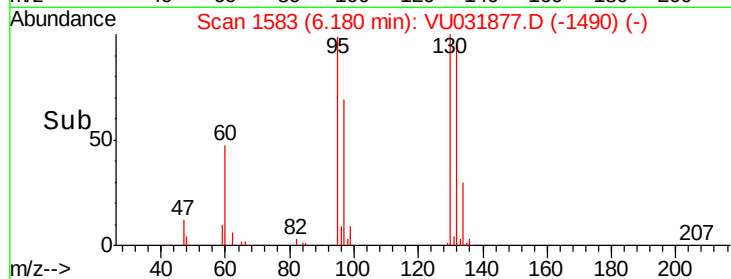
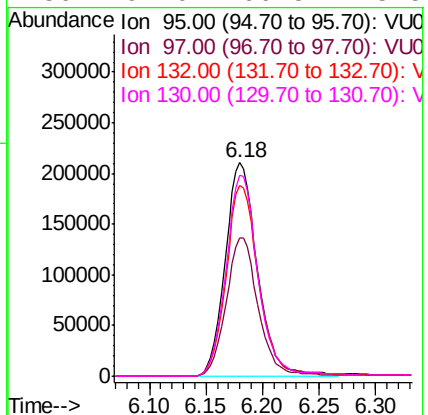
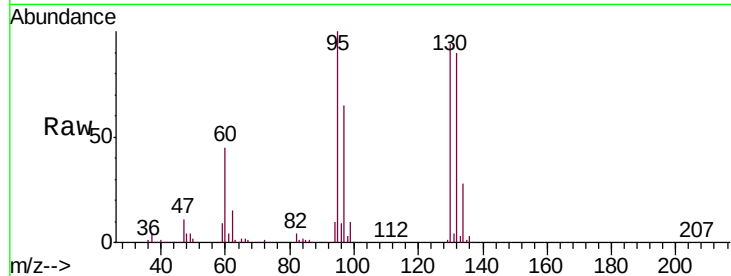




#34
 Trichloroethene
 Concen: 45.185 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

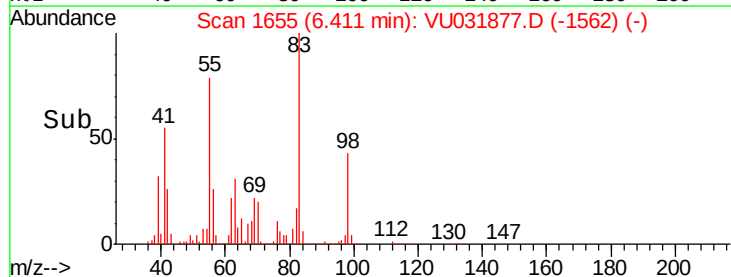
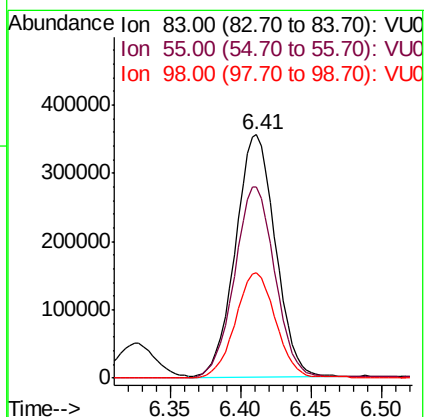
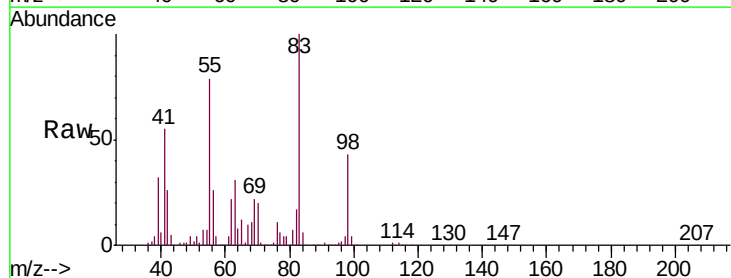
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

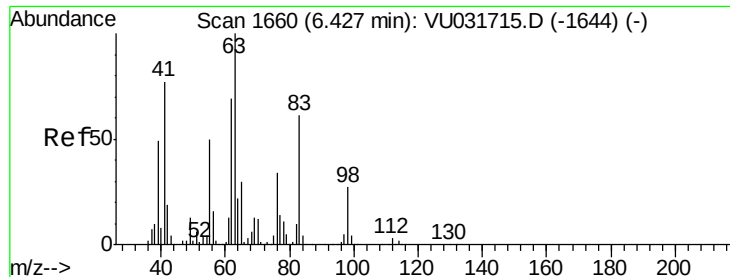
Tgt Ion:	95	Resp:	417713
Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.8	83.2
132	89.5	63.1	117.1
130	94.0	66.5	123.5



#35
 Methylcyclohexane
 Concen: 50.600 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

Tgt Ion:	83	Resp:	701032
Ion	Ratio	Lower	Upper
83	100		
55	81.0	73.0	109.4
98	44.0	35.3	52.9

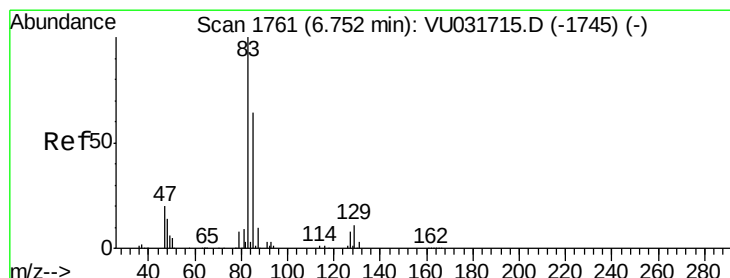
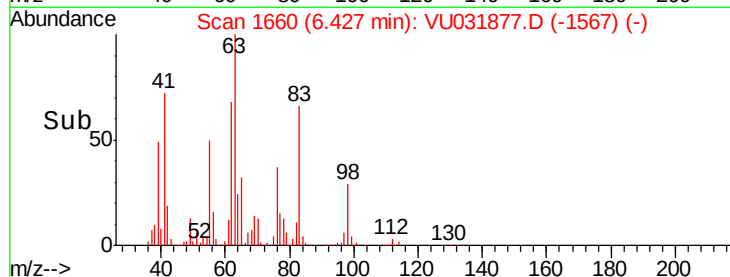
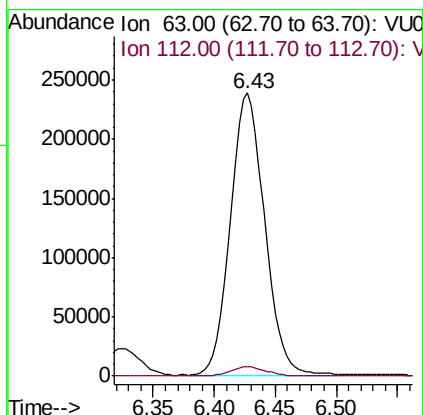
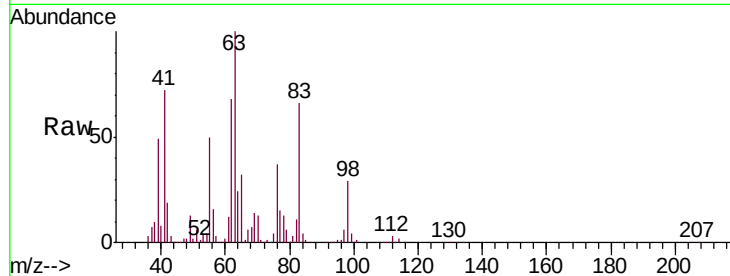




#37
 1,2-Dichloropropane
 Concen: 43.097 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

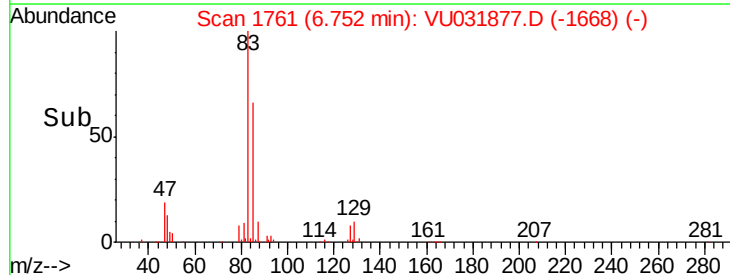
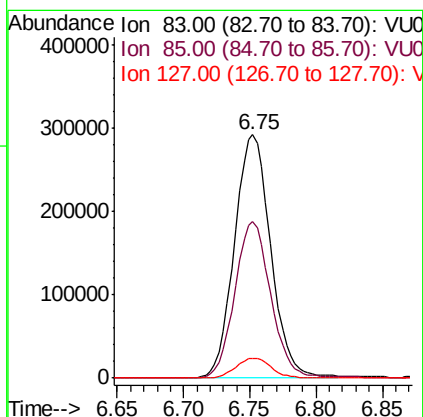
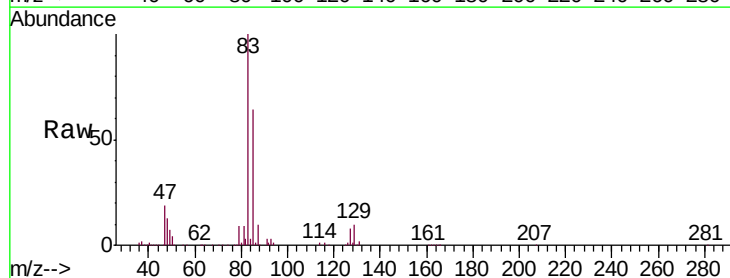
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

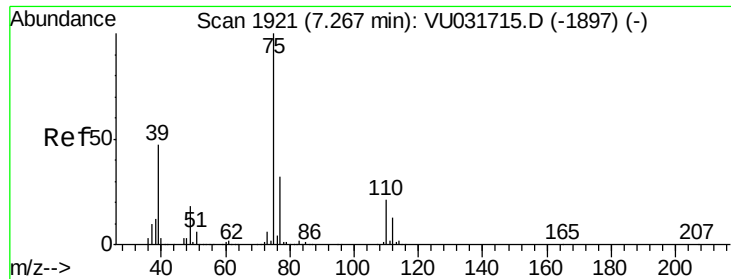
Tgt Ion: 63 Resp: 466604
 Ion Ratio Lower Upper
 63 100
 112 3.6 2.7 4.1



#38
 Bromodichloromethane
 Concen: 42.120 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

Tgt Ion: 83 Resp: 552928
 Ion Ratio Lower Upper
 83 100
 85 64.5 43.7 81.1
 127 8.1 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 47.170 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

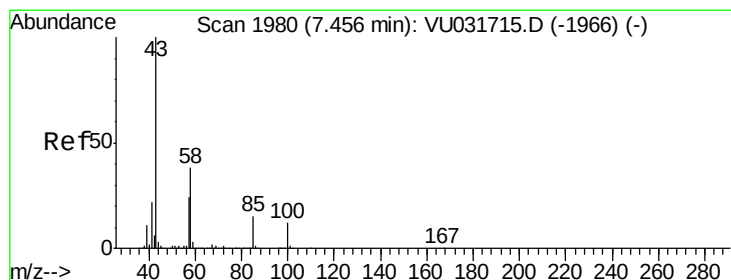
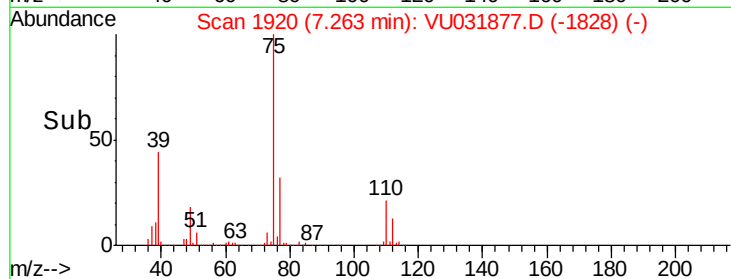
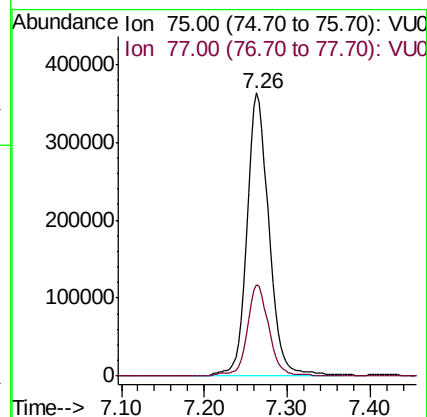
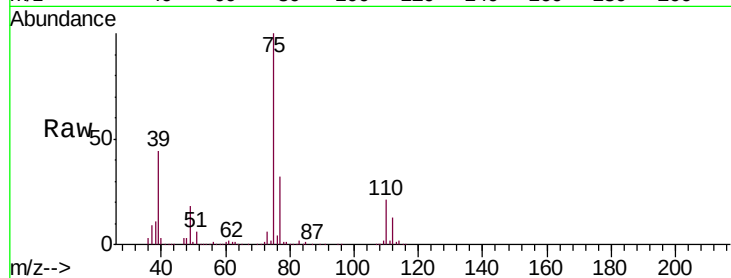
VSTD05039

Tgt Ion: 75 Resp: 674817

Ion Ratio Lower Upper

75 100

77 32.3 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 75.345 ug/L

RT: 7.45 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

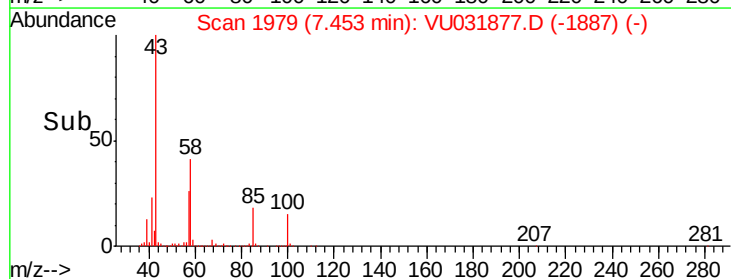
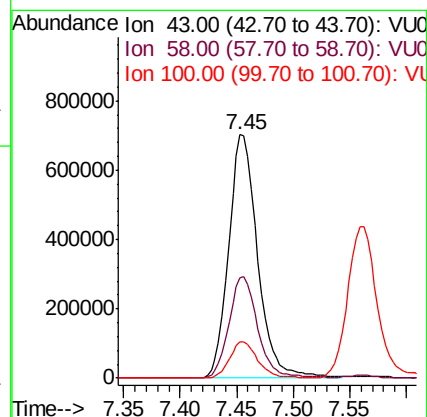
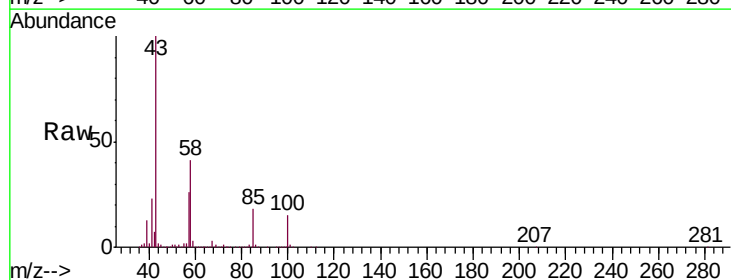
Tgt Ion: 43 Resp: 1255051

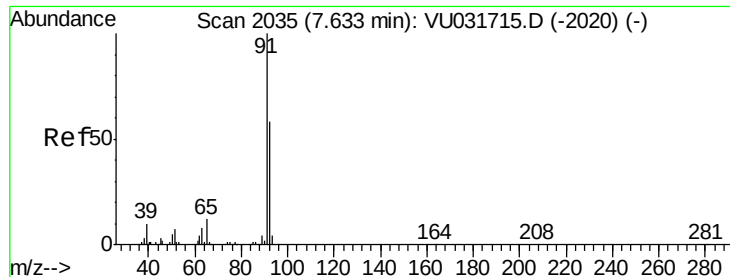
Ion Ratio Lower Upper

43 100

58 41.5 30.1 45.1

100 14.5 9.6 14.4#





#42

Toluene

Concen: 47.931 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

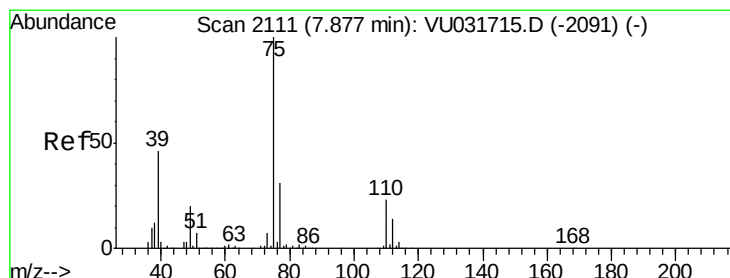
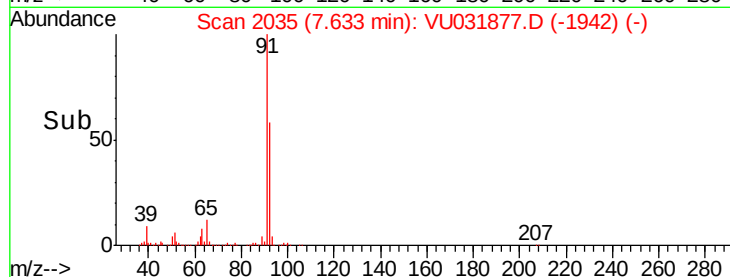
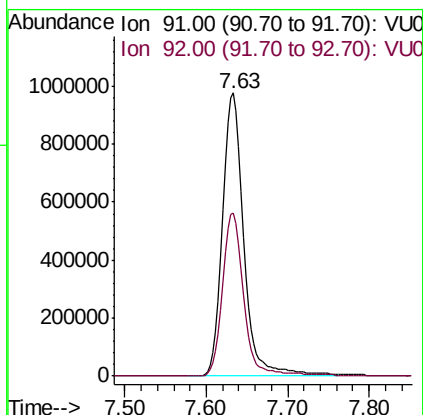
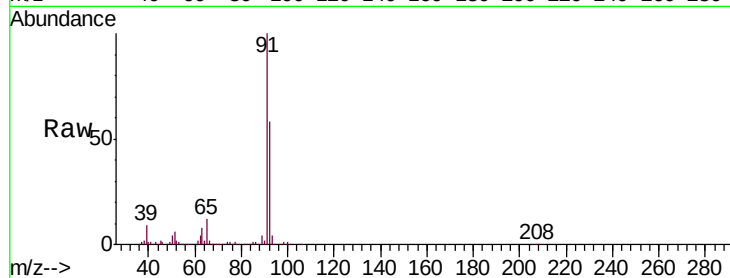
VSTD05039

Tgt Ion: 91 Resp: 1820867

Ion Ratio Lower Upper

91 100

92 57.8 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 44.542 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031877.D

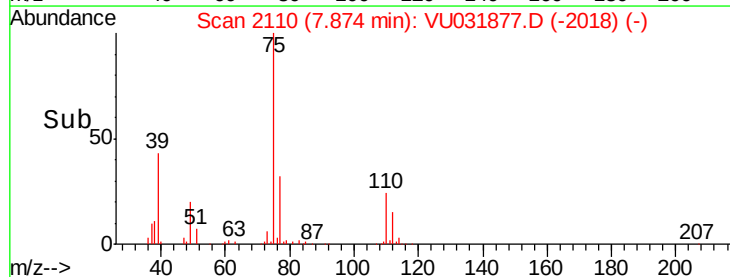
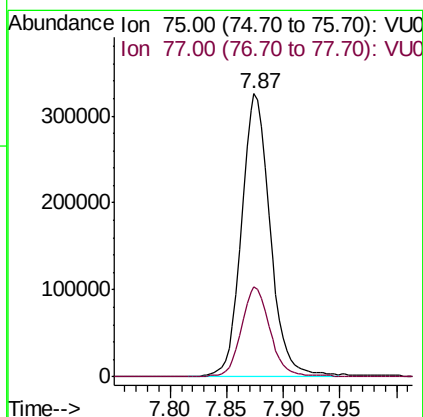
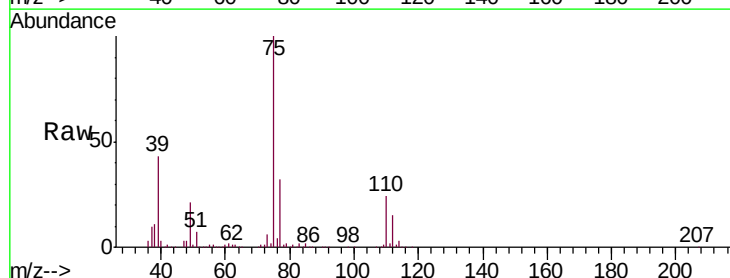
Acq: 10 May 2019 10:37

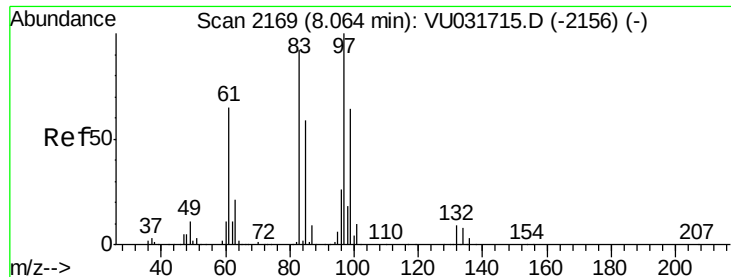
Tgt Ion: 75 Resp: 577967

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1

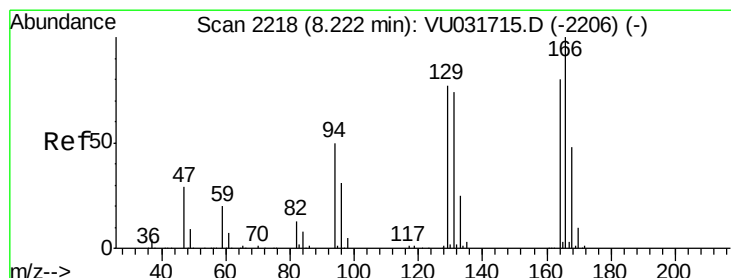
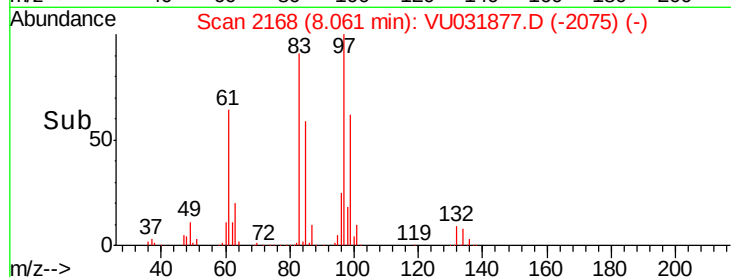
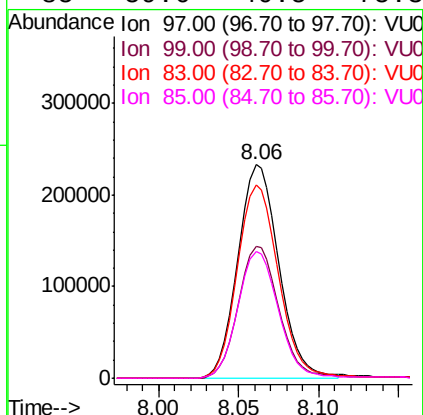
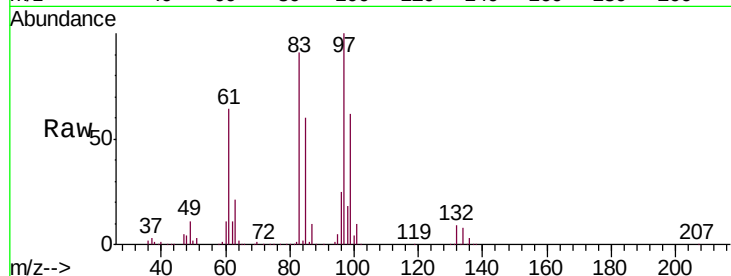




#45
 1,1,2-Trichloroethane
 Concen: 45.671 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

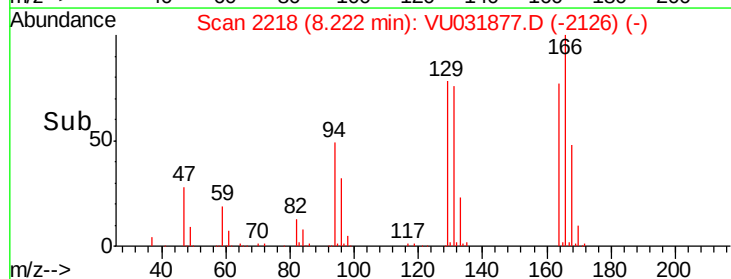
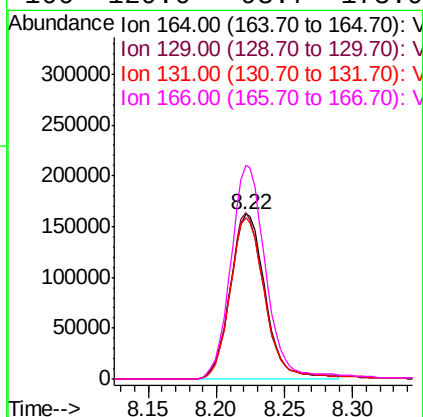
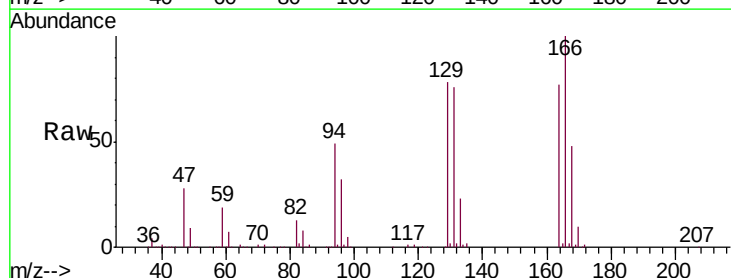
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

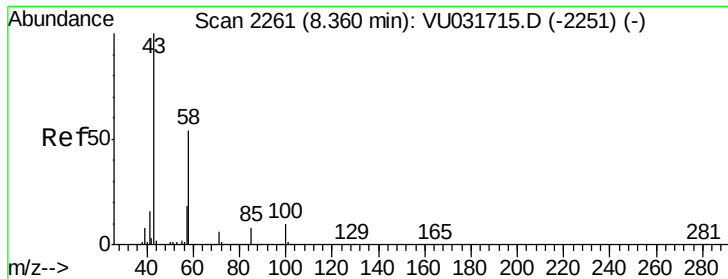
Tgt Ion:	97	Resp:	407637
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.0	80.0
83	90.6	63.6	118.2
85	59.6	40.5	75.3



#46
 Tetrachloroethene
 Concen: 45.889 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

Tgt Ion:	164	Resp:	289206
Ion	Ratio	Lower	Upper
164	100		
129	101.1	71.5	132.9
131	98.0	69.0	128.2
166	129.6	93.7	173.9

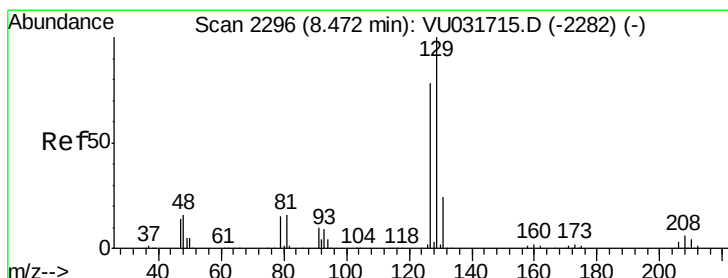
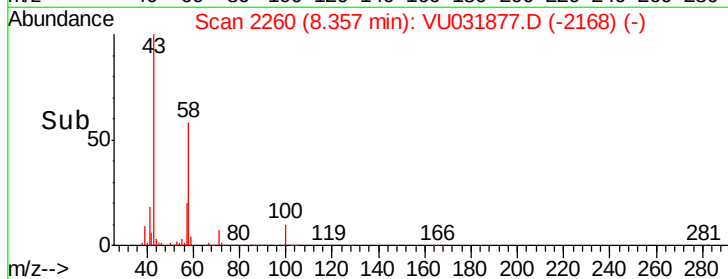
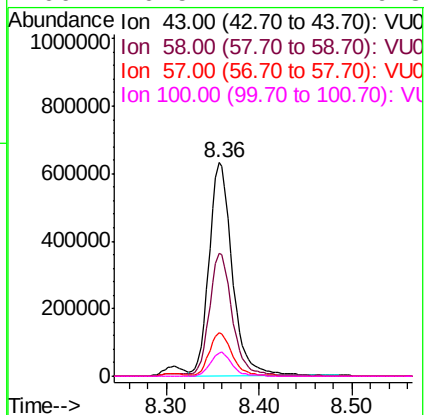
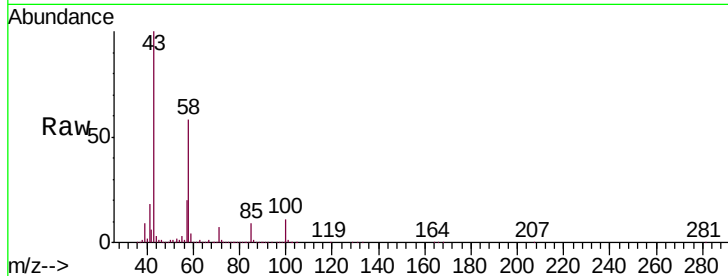




#48
2-Hexanone
Concen: 81.671 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

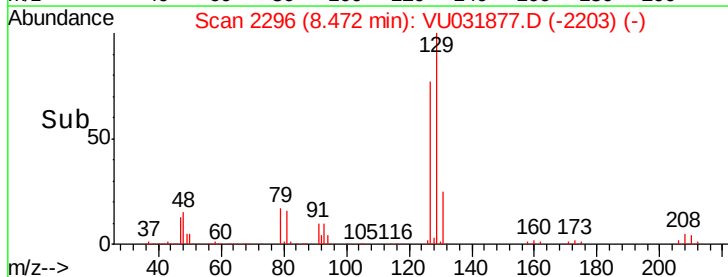
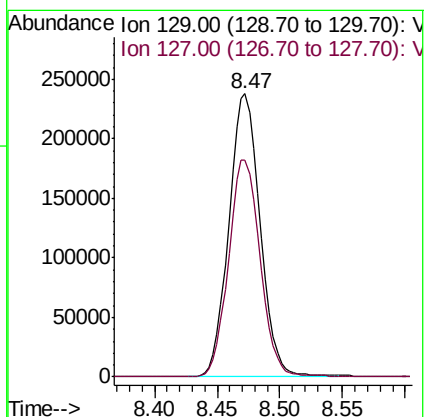
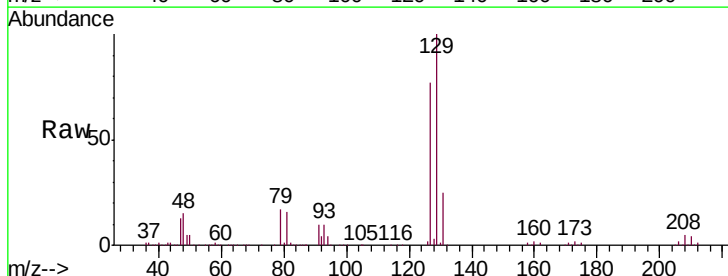
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

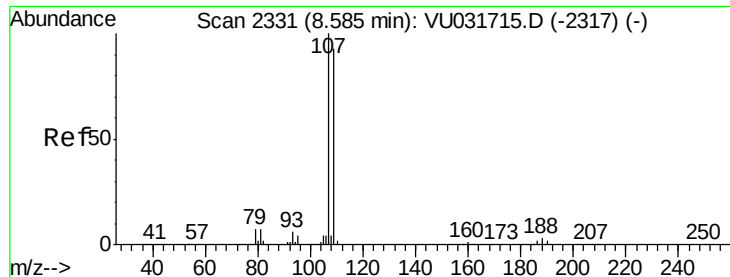
Tgt Ion: 43 Resp: 1100290
Ion Ratio Lower Upper
43 100
58 55.9 42.1 63.1
57 19.8 14.6 22.0
100 10.5 7.2 10.8



#49
Dibromochloromethane
Concen: 44.278 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

Tgt Ion: 129 Resp: 411204
Ion Ratio Lower Upper
129 100
127 76.6 54.0 100.2

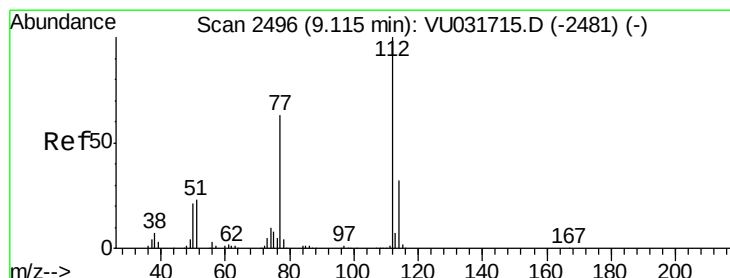
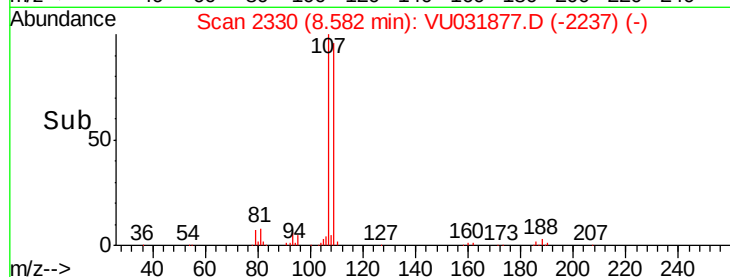
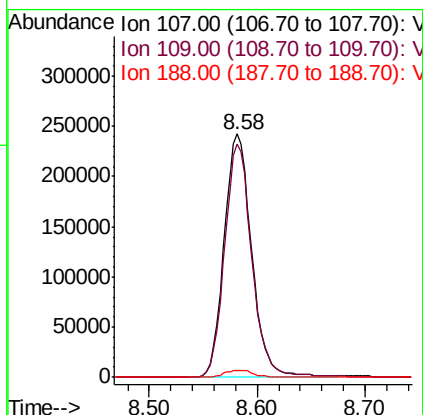
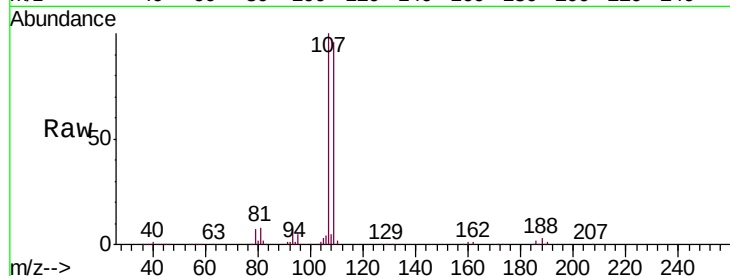




#50
1,2-Dibromoethane
Concen: 45.596 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

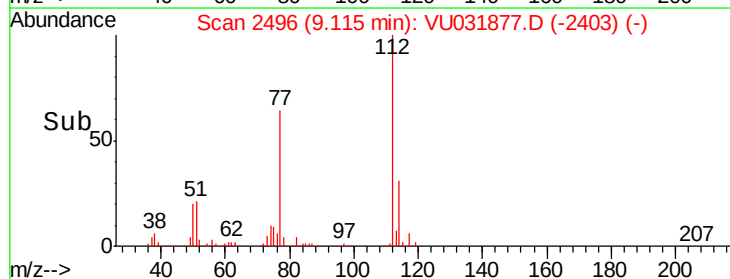
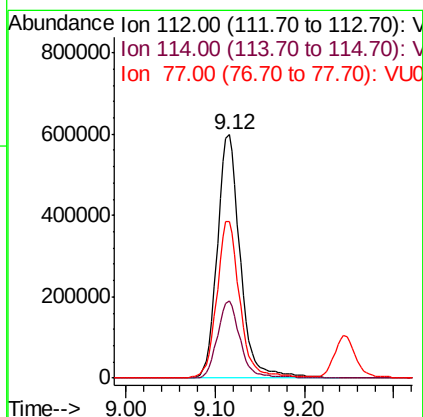
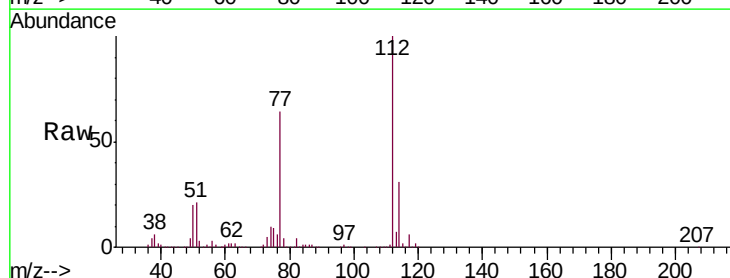
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

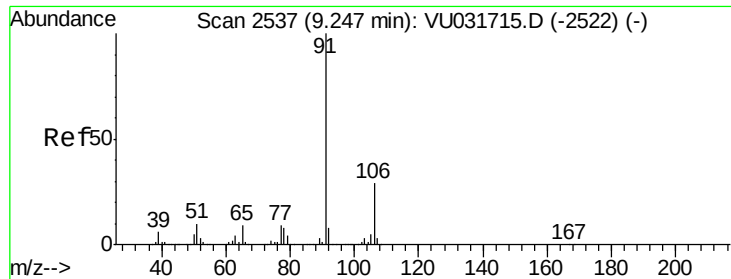
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.6	64.9	120.5
188	2.9	2.4	3.6



#51
Chlorobenzene
Concen: 47.531 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	23.3	43.3
77	64.5	53.0	79.4





#52

Ethylbenzene

Concen: 49.160 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

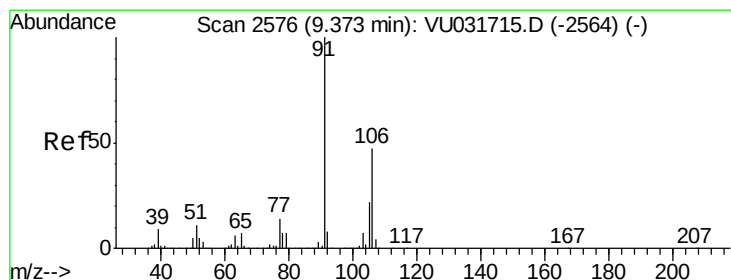
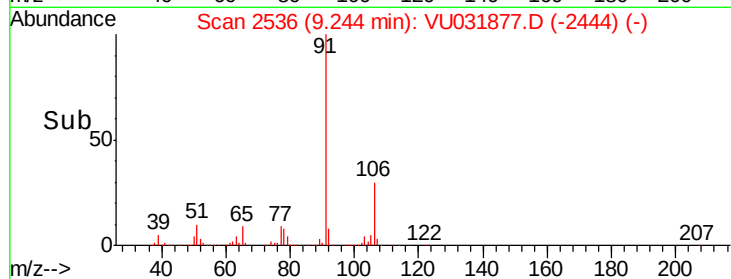
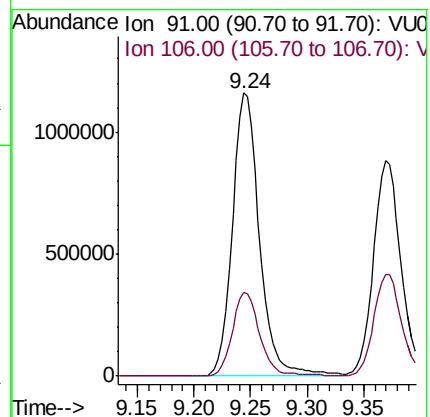
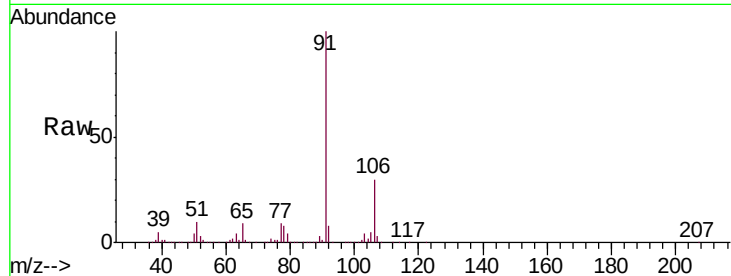
VSTD05039

Tgt Ion: 91 Resp: 1937217

Ion Ratio Lower Upper

91 100

106 29.7 20.4 37.8



#53

m,p-Xylene

Concen: 51.378 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031877.D

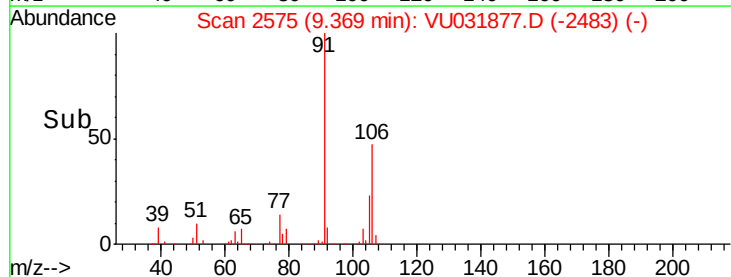
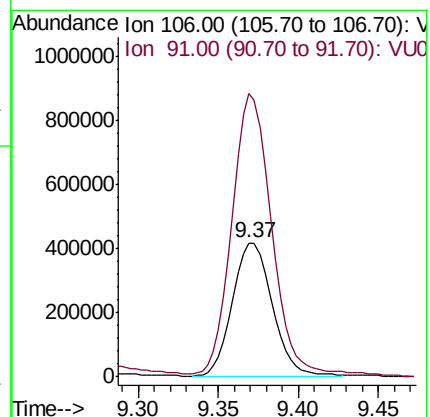
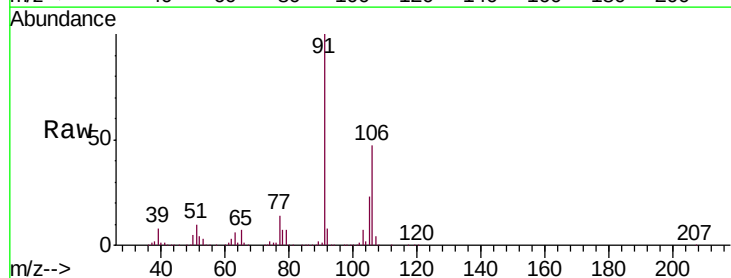
Acq: 10 May 2019 10:37

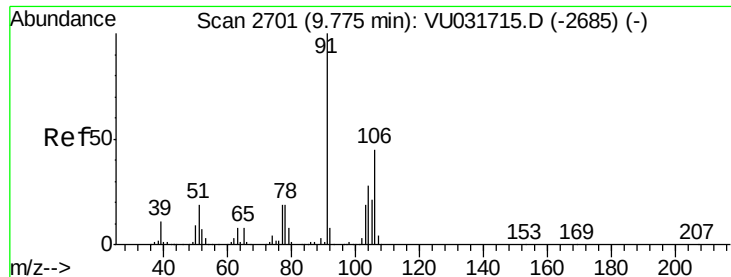
Tgt Ion: 106 Resp: 705406

Ion Ratio Lower Upper

106 100

91 211.1 152.2 282.6

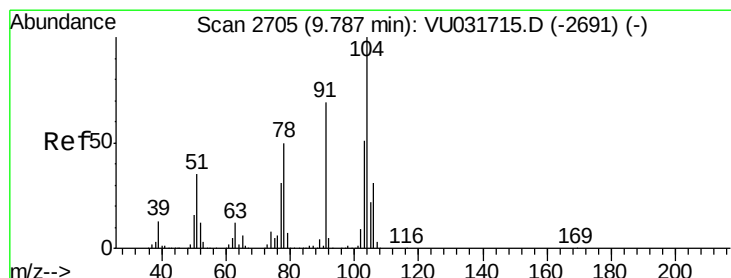
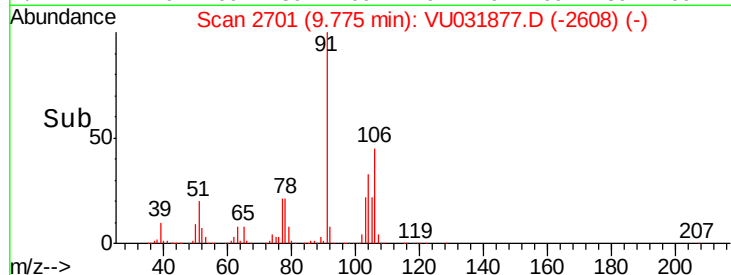
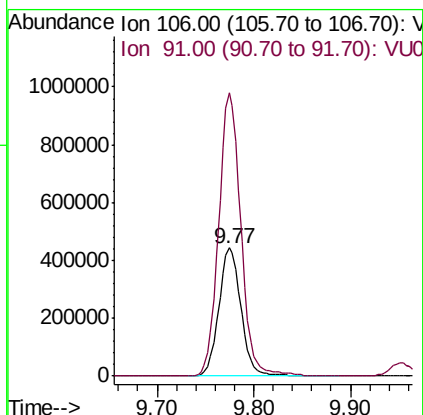
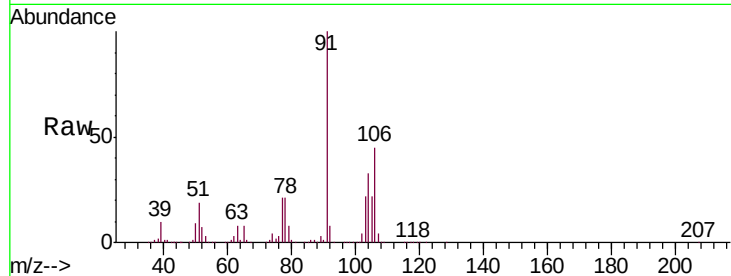




#54
o-xylene
Concen: 52.006 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

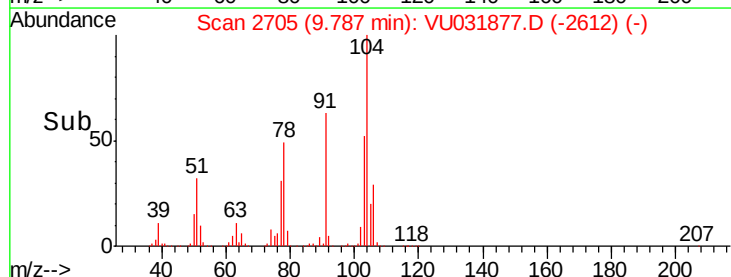
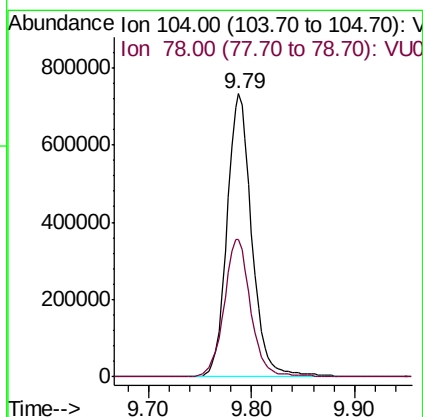
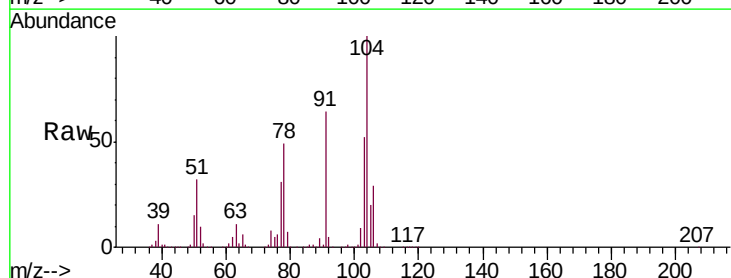
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

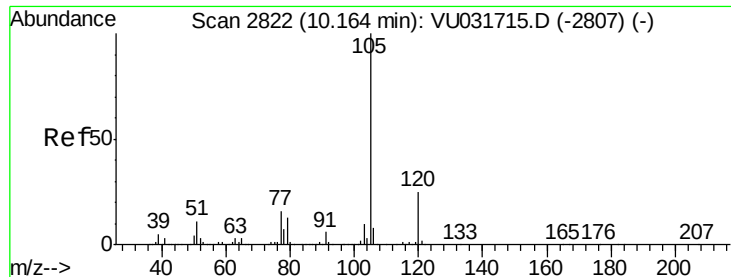
Tgt Ion:106 Resp: 707896
Ion Ratio Lower Upper
106 100
91 220.8 163.2 303.2



#55
Styrene
Concen: 52.753 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU031877.D
Acq: 10 May 2019 10:37

Tgt Ion:104 Resp: 1226800
Ion Ratio Lower Upper
104 100
78 48.6 35.4 65.7





#56

Isopropylbenzene

Concen: 50.313 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

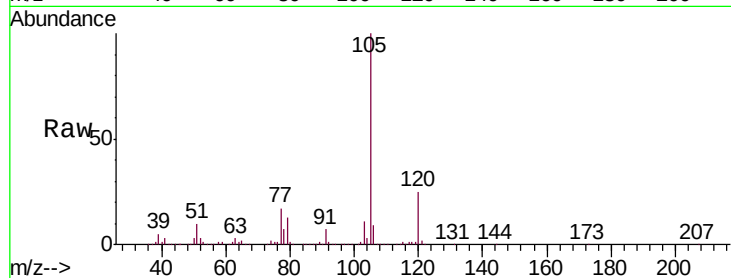
Tgt Ion:105 Resp: 1800858

Ion Ratio Lower Upper

105 100

120 25.1 20.1 30.1

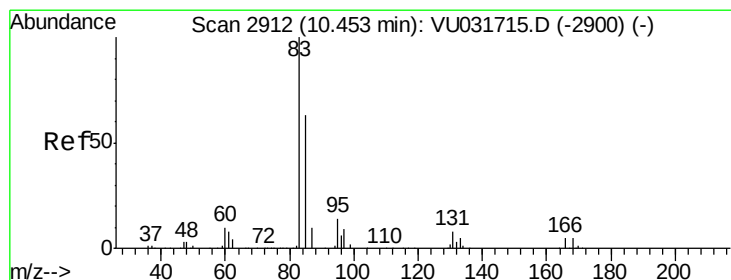
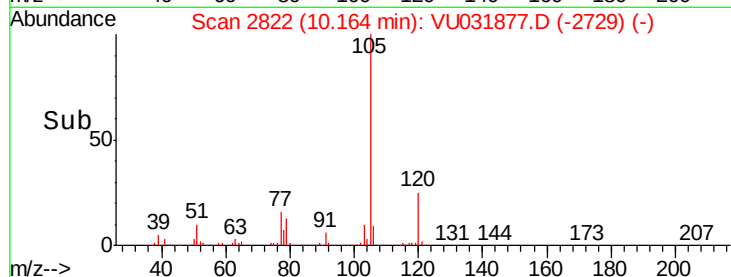
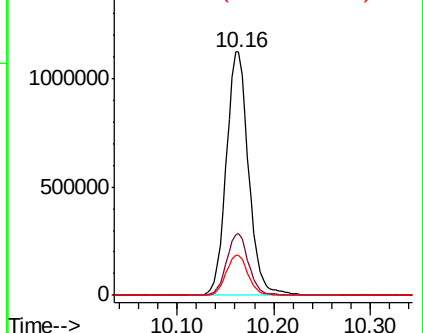
77 16.2 13.8 20.6



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: 45.187 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

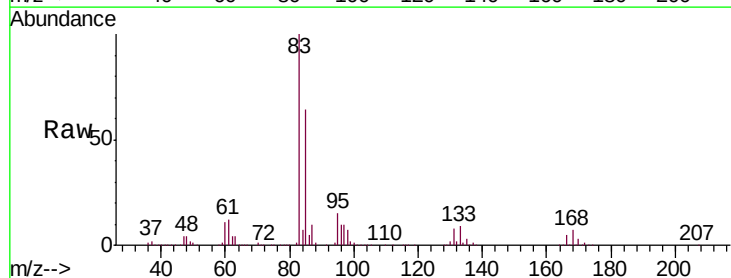
Tgt Ion: 83 Resp: 715686

Ion Ratio Lower Upper

83 100

85 63.7 46.0 85.4

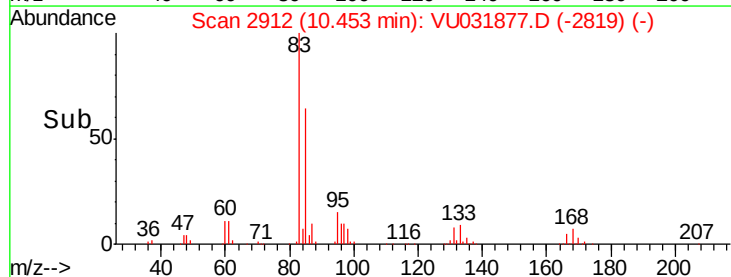
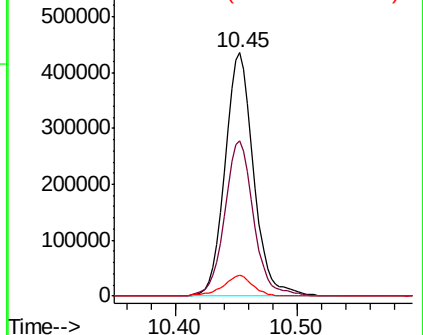
131 8.4 7.3 10.9

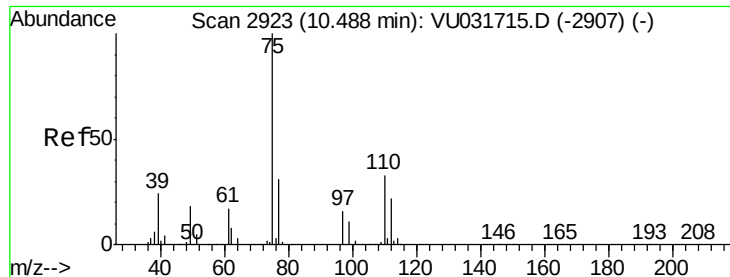


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

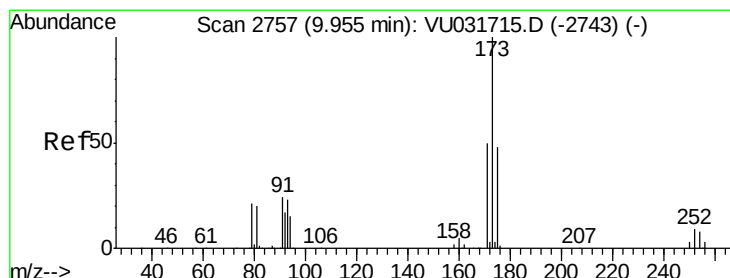
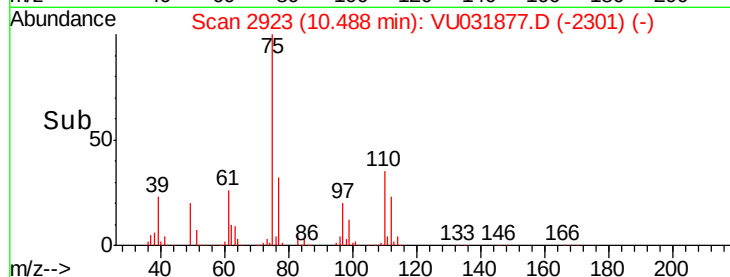
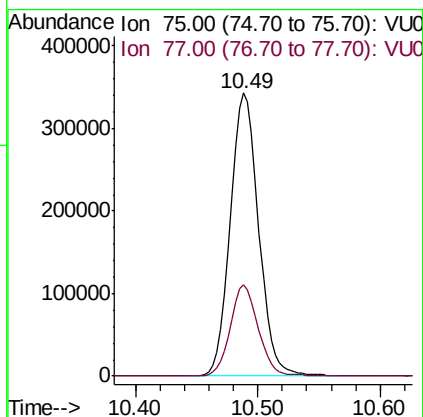
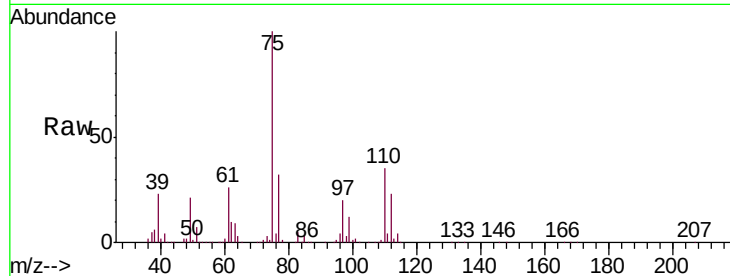




#59
 1,2,3-Trichloropropane
 Concen: 43.417 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

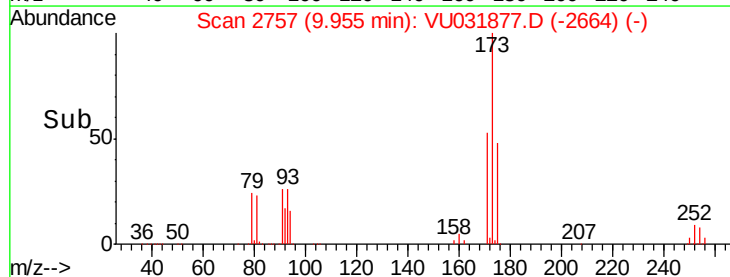
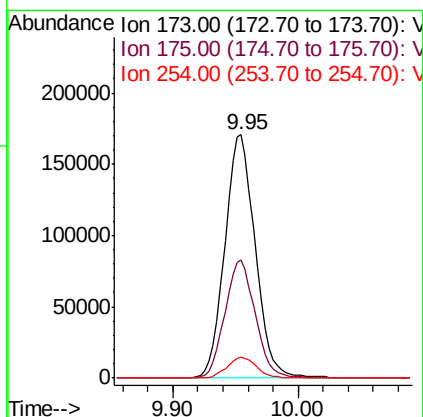
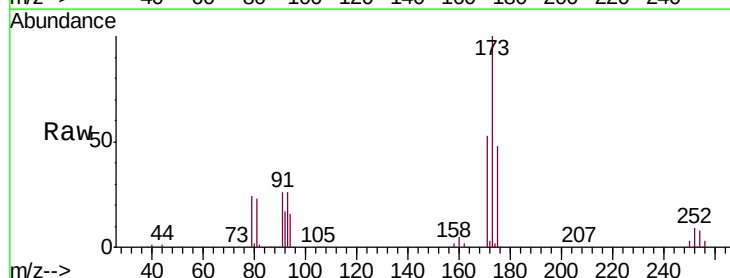
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

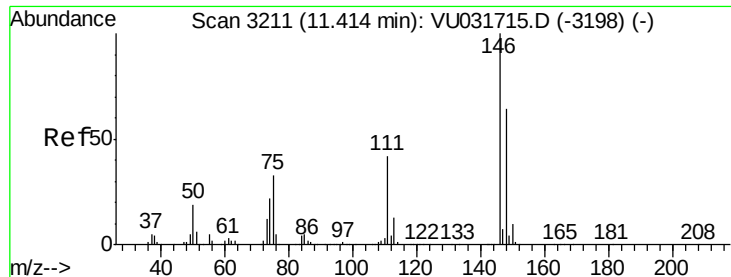
Tgt Ion: 75 Resp: 557322
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.9 38.9



#61
 Bromoform
 Concen: 41.111 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

Tgt Ion: 173 Resp: 288271
 Ion Ratio Lower Upper
 173 100
 175 48.3 38.3 57.5
 254 8.4 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 48.212 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

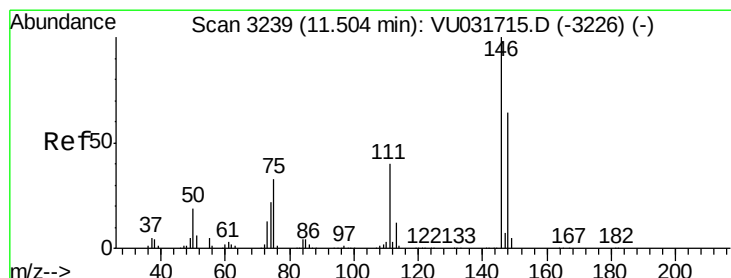
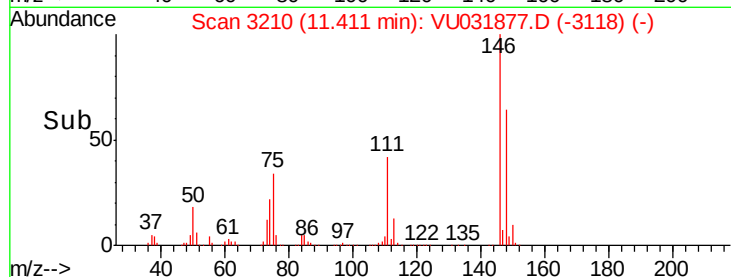
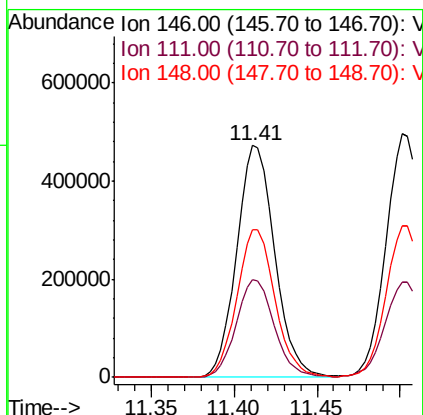
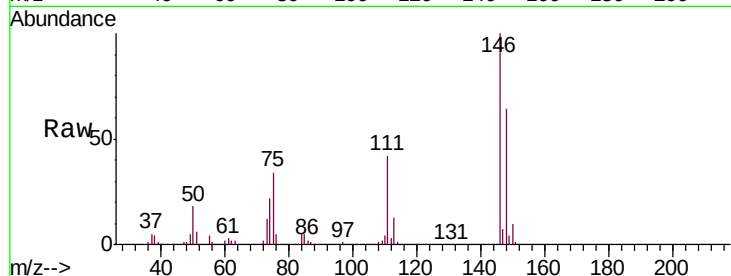
Tgt Ion:146 Resp: 754928

Ion Ratio Lower Upper

146 100

111 42.2 29.8 55.4

148 63.9 45.1 83.9



#63

1,4-Dichlorobenzene

Concen: 49.356 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

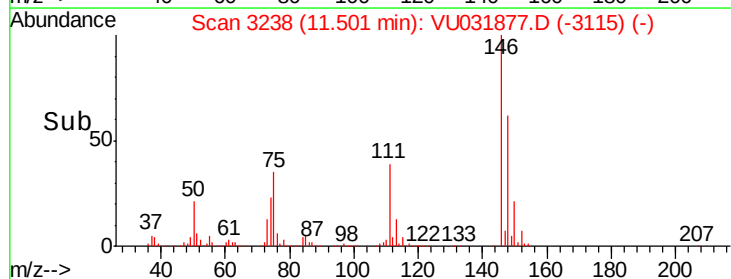
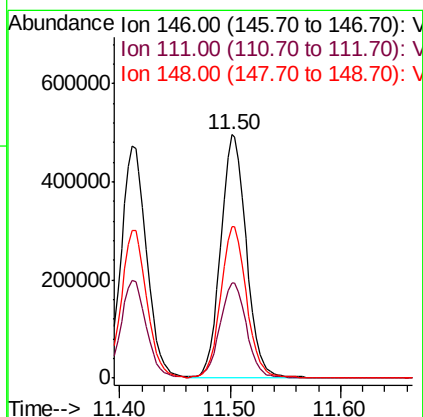
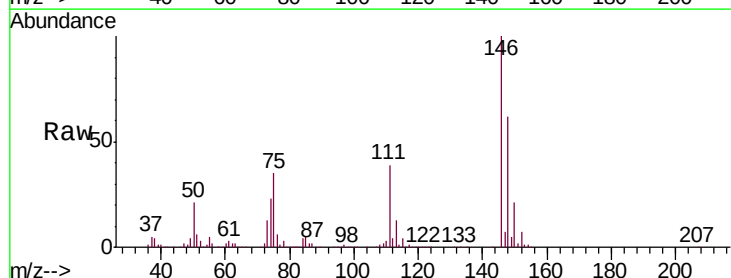
Tgt Ion:146 Resp: 800378

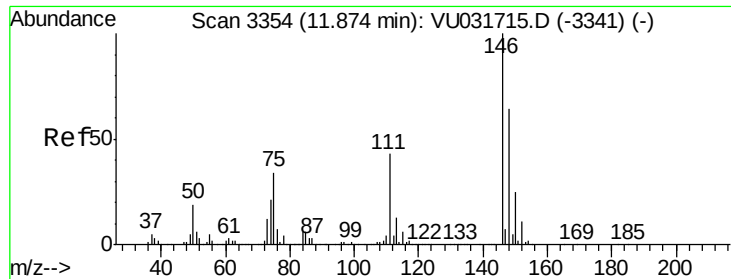
Ion Ratio Lower Upper

146 100

111 39.3 28.2 52.4

148 62.4 45.4 84.4

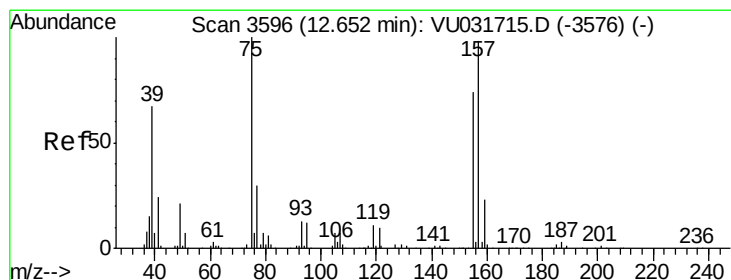
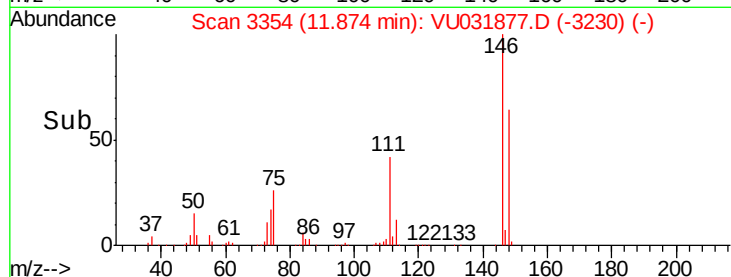
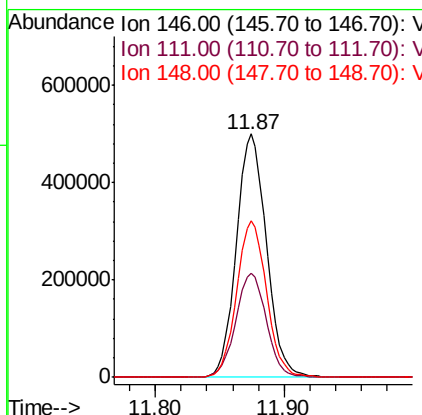
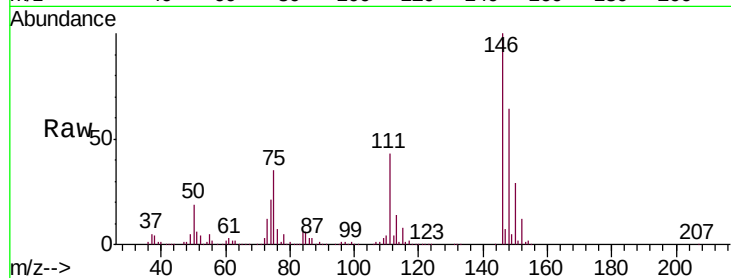




#65
 1,2-Dichlorobenzene
 Concen: 48.731 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

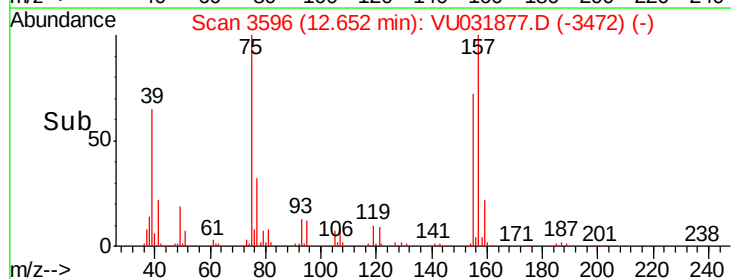
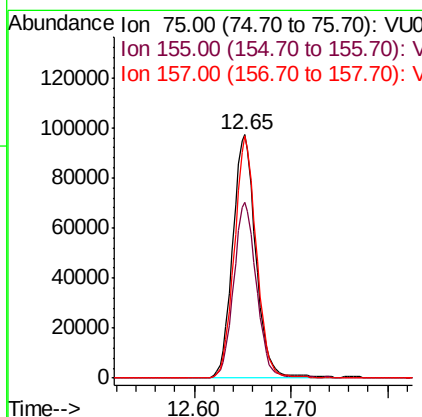
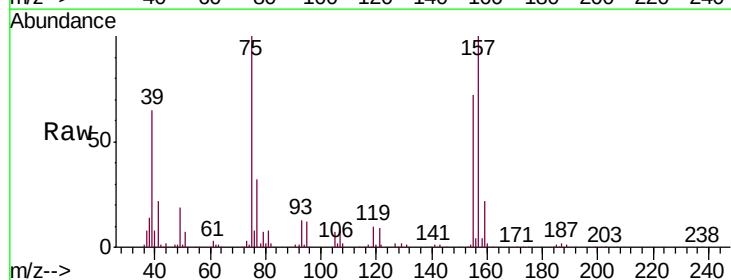
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

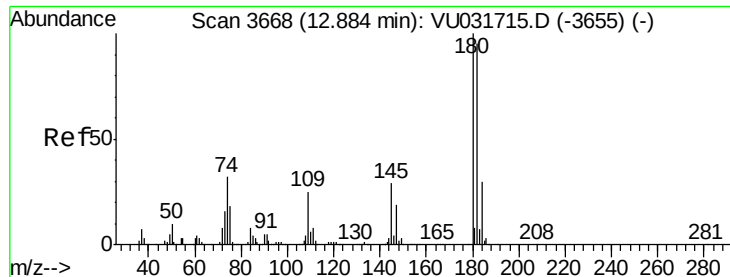
Tgt Ion: 146 Resp: 810961
 Ion Ratio Lower Upper
 146 100
 111 42.8 35.9 53.9
 148 64.5 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 41.867 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031877.D
 Acq: 10 May 2019 10:37

Tgt Ion: 75 Resp: 161705
 Ion Ratio Lower Upper
 75 100
 155 72.4 54.0 81.0
 157 99.5 69.1 103.7





#67

1,3,5-Trichlorobenzene

Concen: 49.511 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. 0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

Tgt Ion:180 Resp: 580658

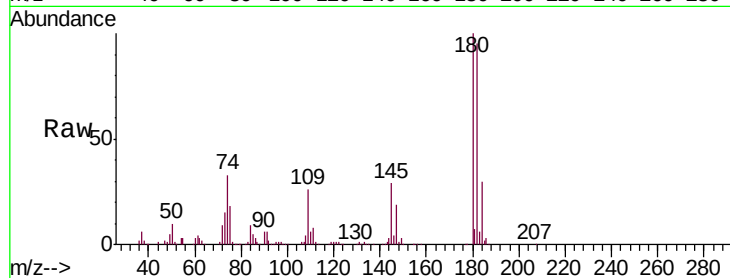
Ion Ratio Lower Upper

180 100

182 95.2 77.3 115.9

184 30.1 24.4 36.6

145 29.7 23.8 35.8

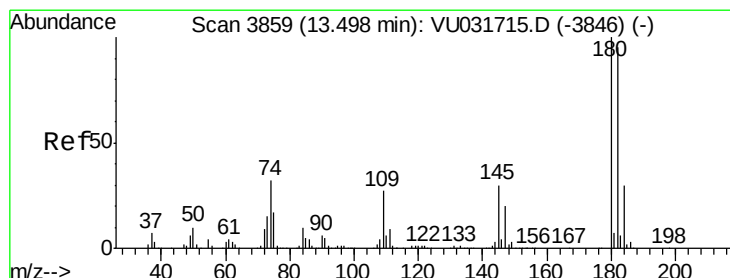
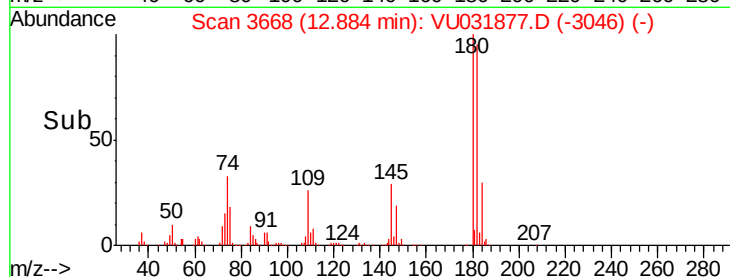
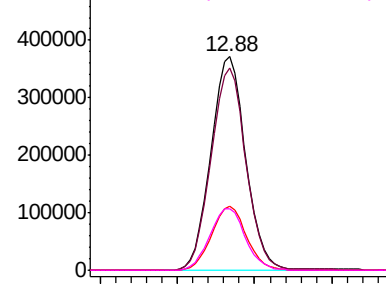


Abundance Ion 180.00 (179.70 to 180.70): V

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: 52.747 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

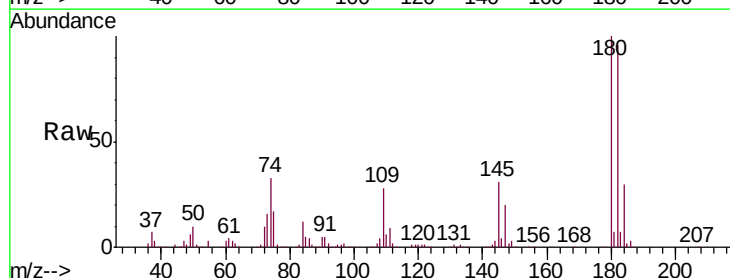
Tgt Ion:180 Resp: 489735

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.8

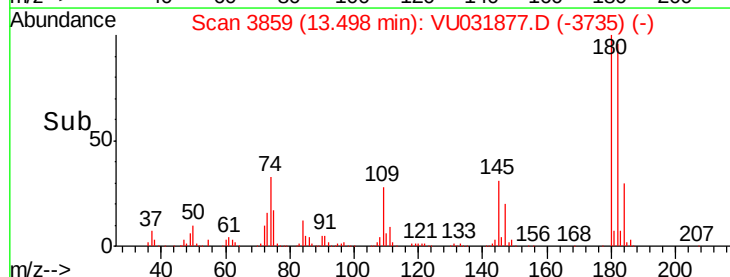
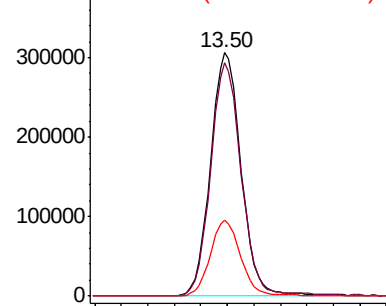
145 30.6 24.5 36.7

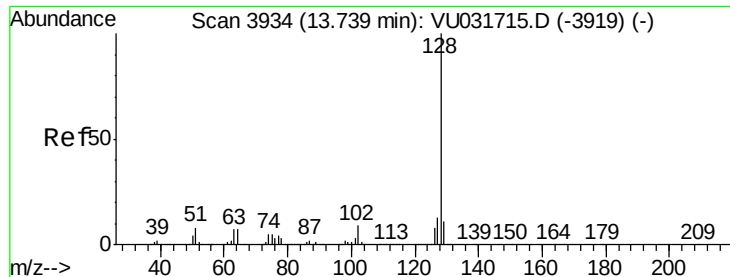


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.845 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

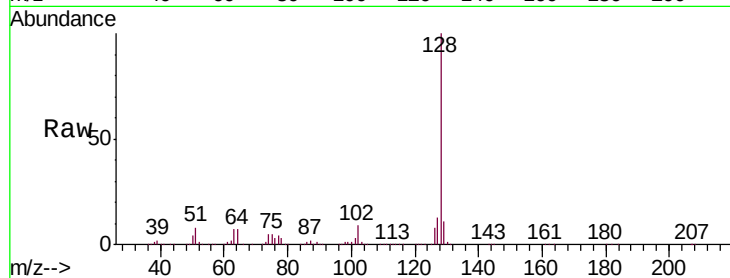
Tgt Ion:128 Resp: 1704508

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

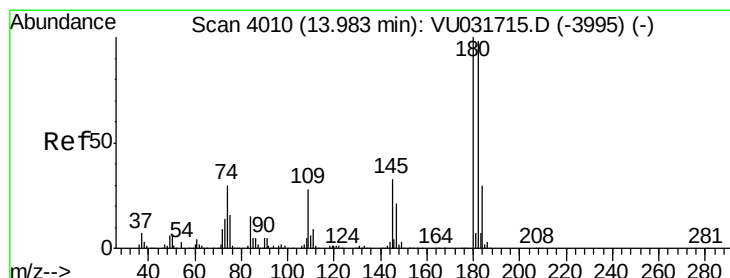
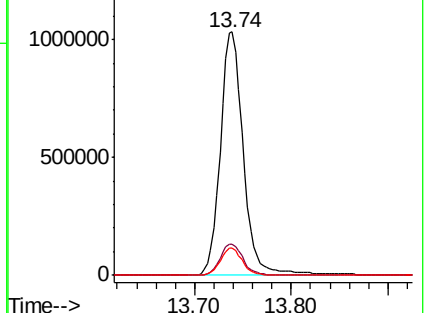
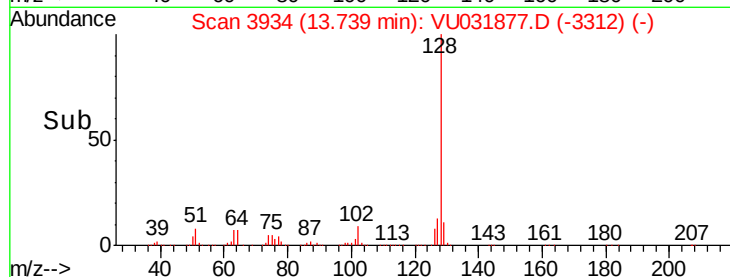
129 11.0 8.7 13.1



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: 50.393 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031877.D

Acq: 10 May 2019 10:37

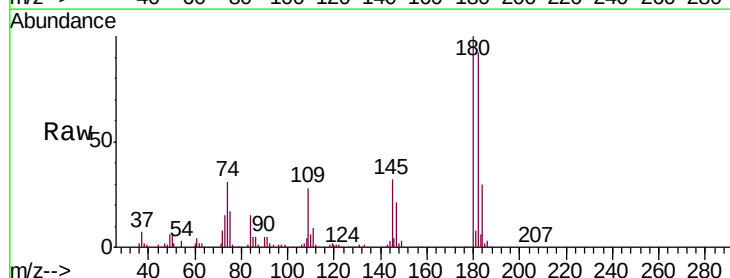
Tgt Ion:180 Resp: 532675

Ion Ratio Lower Upper

180 100

182 95.2 76.1 114.1

145 33.0 26.0 39.0



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

