

Data File : VU035151.D
Acq On : 14 Oct 2019 15:34
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Quant Time: Oct 15 07:10:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 15 07:04:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	165217	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	170246	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	85117	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	41407	4.24	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.80%
7) Chloroethane-d5	1.67	69	40032	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.26	63	93114	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.40%
20) 2-Butanone-d5	4.17	46	161999	56.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.66%
24) Chloroform-d	4.62	84	85027	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
26) 1,2-Dichloroethane-d4	5.29	65	50458	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.32	84	161937	4.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.20%
36) 1,2-Dichloropropane-d6	6.31	67	58211	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.20%
41) Toluene-d8	7.54	98	157042	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.40%
43) trans-1,3-Dichloropropene-	7.83	79	19916	4.15	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.00%
46) 2-Hexanone-d5	8.30	63	119831	52.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.92%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	57684	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	60330	4.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	70312	4.657 ug/L	99
3) Chloromethane	1.32	50	76607	4.625 ug/L	99
5) Vinyl chloride	1.40	62	75692	4.652 ug/L	99
6) Bromomethane	1.62	94	43678	4.829 ug/L	97
8) Chloroethane	1.69	64	47373	4.855 ug/L	100
9) Trichlorofluoromethane	1.88	101	97773	4.969 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	55708	4.931 ug/L	97
12) 1,1-Dichloroethene	2.27	96	50387	4.748 ug/L	81
13) Acetone	2.31	43	127512	54.133 ug/L	95
14) Carbon disulfide	2.46	76	157985	4.473 ug/L	99
15) Methyl Acetate	2.60	43	33988	5.420 ug/L	93
16) Methylene chloride	2.68	84	62194	4.734 ug/L	90
17) Methyl tert-butyl Ether	2.99	73	150485	5.198 ug/L	96
18) trans-1,2-Dichloroethene	2.96	96	53465	4.705 ug/L	94
19) 1,1-Dichloroethane	3.42	63	111353	4.930 ug/L	99
21) 2-Butanone	4.25	43	183083	54.579 ug/L	96
22) cis-1,2-Dichloroethene	4.20	96	59926	4.728 ug/L	93

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	26858	5.056	ug/L	88
25) Chloroform	4.65	83	120405	4.745	ug/L	98
27) 1,2-Dichloroethane	5.38	62	75772	5.113	ug/L	100
29) 1,1,1-Trichloroethane	4.89	97	90316	4.723	ug/L	97
30) Cyclohexane	4.97	56	86717	4.125	ug/L	96
31) Carbon tetrachloride	5.11	117	80693	4.867	ug/L	99
33) Benzene	5.36	78	236193	4.606	ug/L	100
34) Trichloroethene	6.16	95	61218	4.629	ug/L	97
35) Methylcyclohexane	6.39	83	89653	4.185	ug/L	96
37) 1,2-Dichloropropane	6.41	63	66665	4.819	ug/L	98
38) Bromodichloromethane	6.74	83	80769	4.981	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	86223	4.601	ug/L	96
40) 4-Methyl-2-pentanone	7.44	43	457371	52.533	ug/L	93
42) Toluene	7.62	91	257862	4.817	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	70612	4.865	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	46303	5.041	ug/L	96
47) Tetrachloroethene	8.21	164	47637	4.450	ug/L	96
48) 2-Hexanone	8.35	43	326534	54.701	ug/L	95
49) Dibromochloromethane	8.46	129	55405	5.219	ug/L	98
50) 1,2-Dibromoethane	8.57	107	44733	5.096	ug/L	97
51) Chlorobenzene	9.10	112	160594	4.630	ug/L	98
52) Ethylbenzene	9.23	91	270599	4.577	ug/L	99
53) m,p-Xylene	9.36	106	98524	4.511	ug/L	98
54) o-Xylene	9.76	106	96690	4.527	ug/L	98
55) Styrene	9.77	104	169971	4.914	ug/L	99
56) Isopropylbenzene	10.15	105	259572	4.562	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	64622	5.174	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	46332	5.174	ug/L	99
61) Bromoform	9.94	173	30986	5.308	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	122797	4.683	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	121672	4.598	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	117955	4.662	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	8047	5.005	ug/L	94
67) 1,3,5-Trichlorobenzene	12.86	180	75047	4.227	ug/L	99
68) 1,2,4-trichlorobenzene	13.48	180	50564	3.813	ug/L	98
69) Naphthalene	13.73	128	69321	3.362	ug/L	98
70) 1,2,3-Trichlorobenzene	13.96	180	52521	4.073	ug/L	99

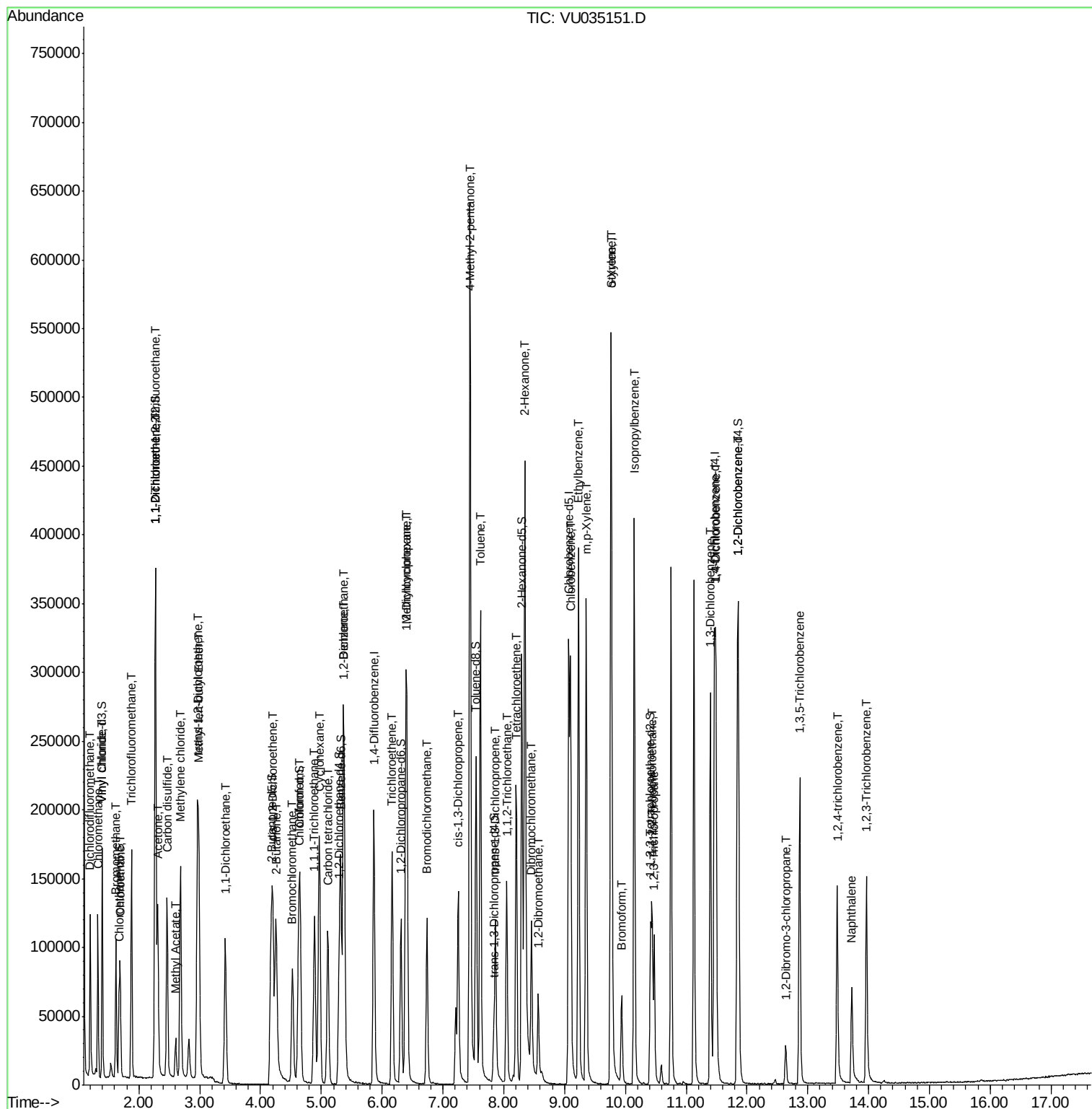
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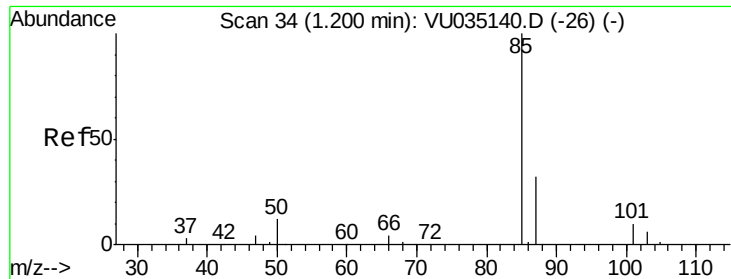
Data File : VU035151.D

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#2

Dichlorodifluoromethane

Concen: 4.657 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

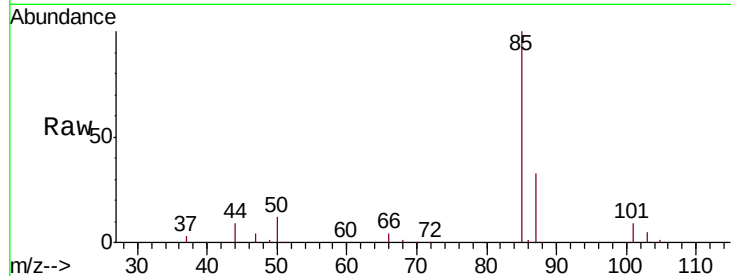
VSTD00519

Tgt Ion: 85 Resp: 70312

Ion Ratio Lower Upper

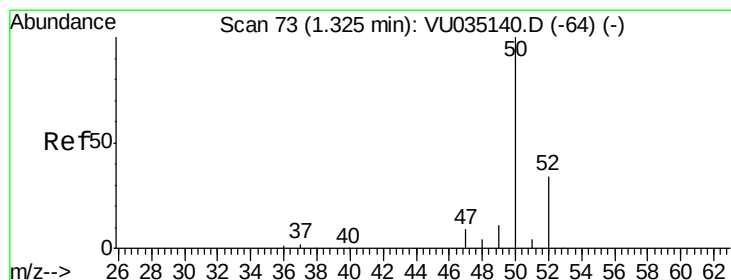
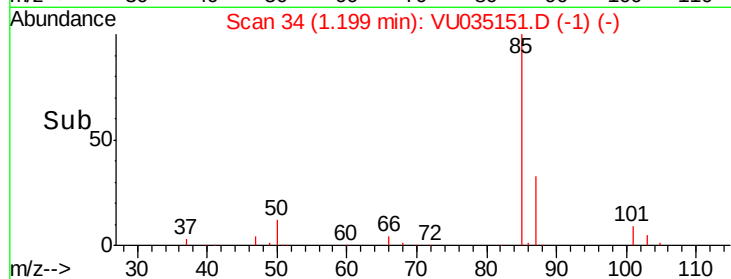
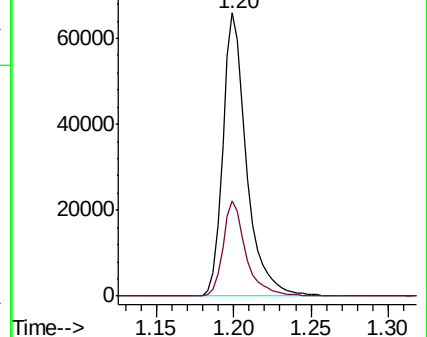
85 100

87 32.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU035140.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU035140.D (-26) (-)



#3

Chloromethane

Concen: 4.625 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU035151.D

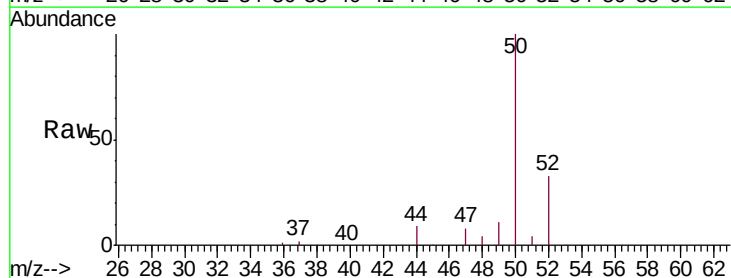
Acq: 14 Oct 2019 15:34

Tgt Ion: 50 Resp: 76607

Ion Ratio Lower Upper

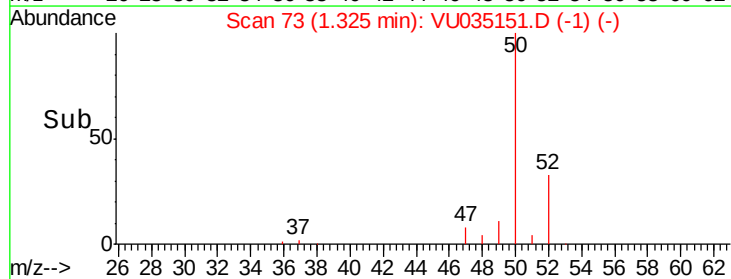
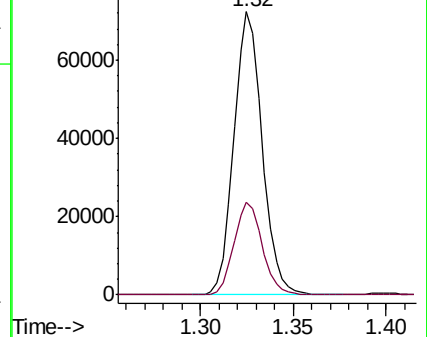
50 100

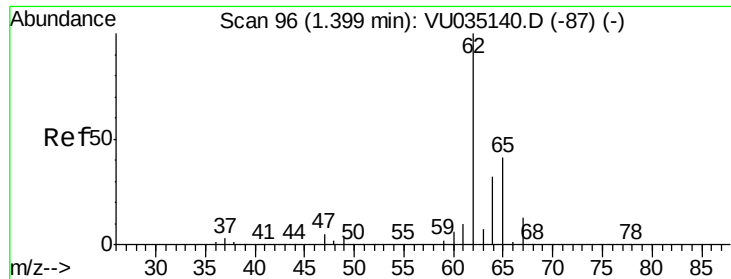
52 32.8 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU035140.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU035140.D (-64) (-)





#5

Vinyl chloride

Concen: 4.652 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

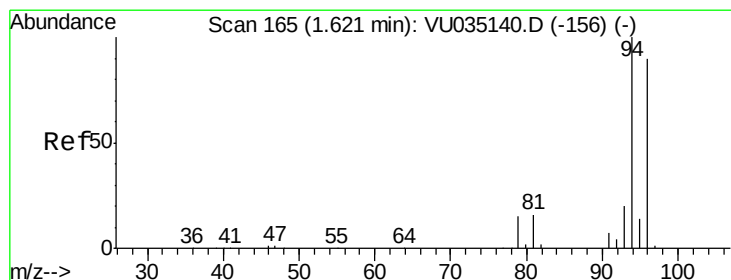
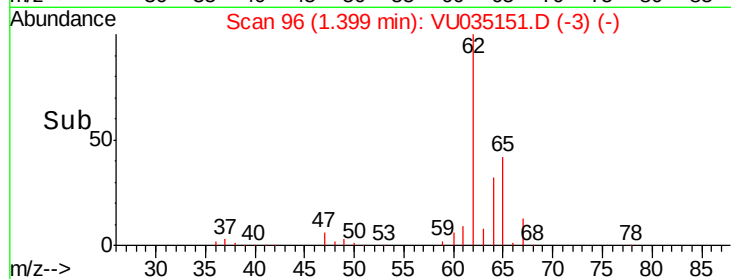
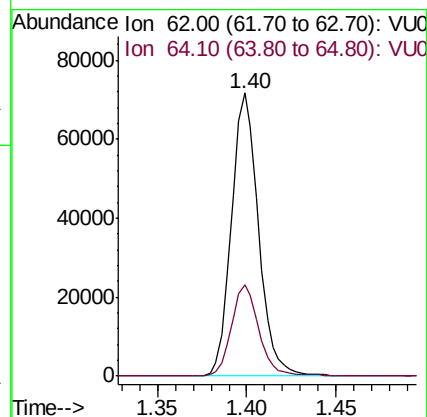
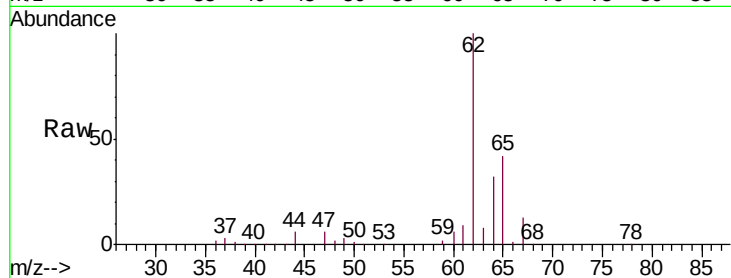
VSTD00519

Tgt Ion: 62 Resp: 75692

Ion Ratio Lower Upper

62 100

64 32.2 22.8 42.4



#6

Bromomethane

Concen: 4.829 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU035151.D

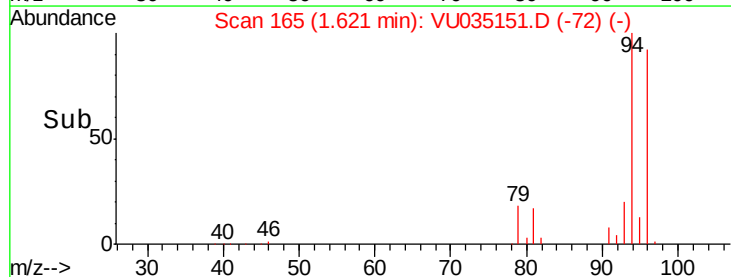
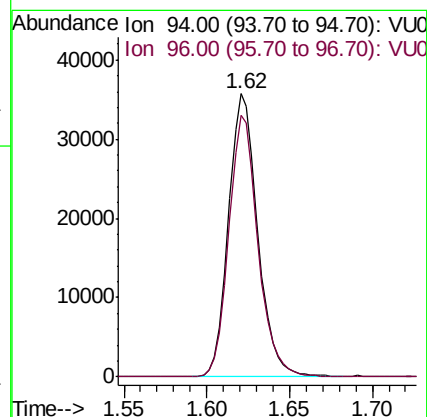
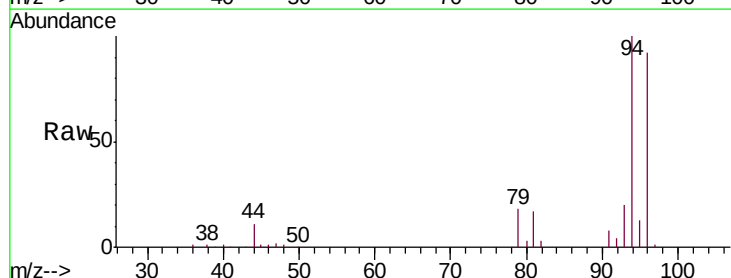
Acq: 14 Oct 2019 15:34

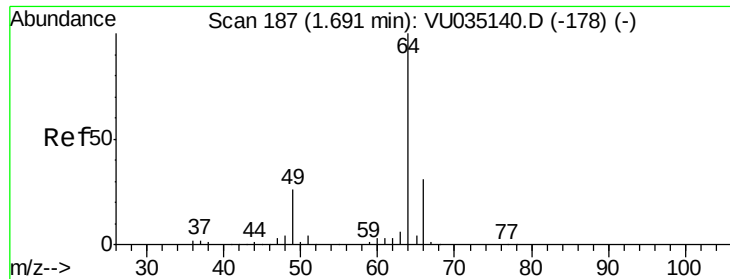
Tgt Ion: 94 Resp: 43678

Ion Ratio Lower Upper

94 100

96 92.3 62.4 116.0

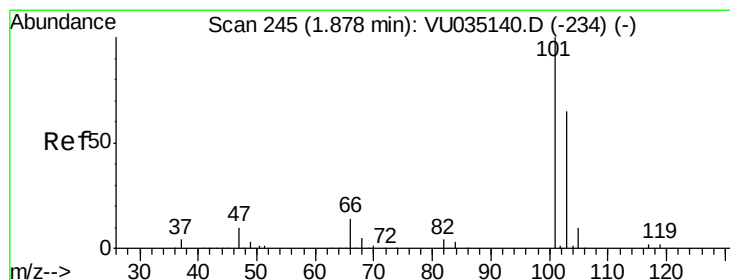
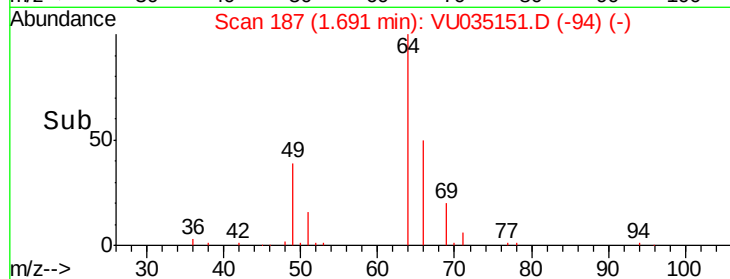
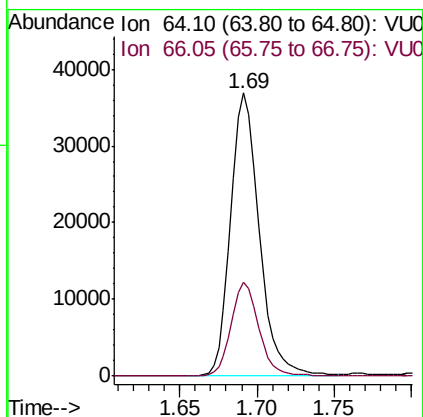
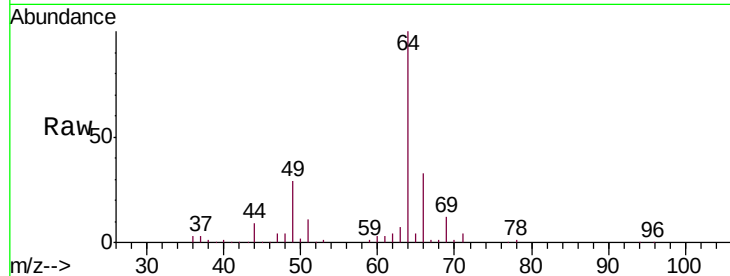




#8
Chloroethane
Concen: 4.855 ug/L
RT: 1.69 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

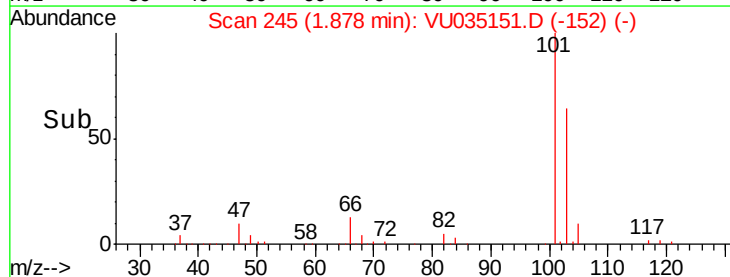
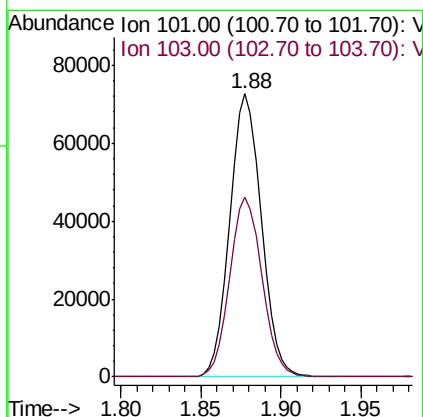
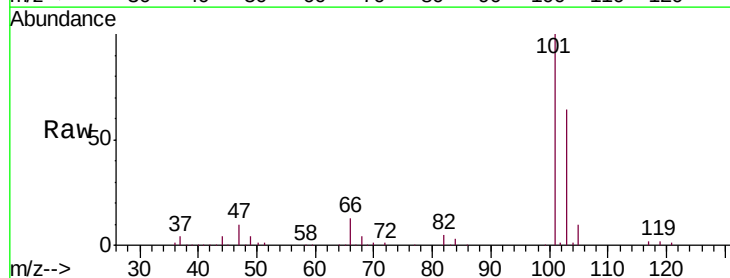
Instrument :
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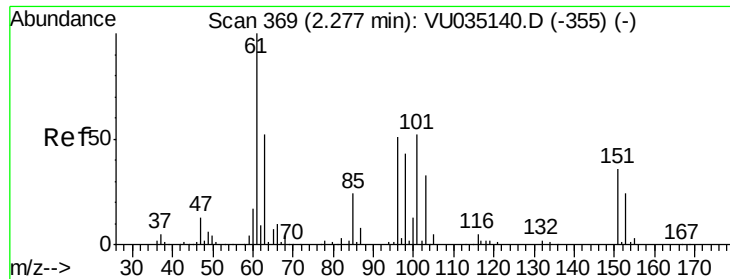
Tgt Ion: 64 Resp: 47373
Ion Ratio Lower Upper
64 100
66 33.1 23.2 43.2



#9
Trichlorofluoromethane
Concen: 4.969 ug/L
RT: 1.88 min Scan# 245
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Tgt Ion: 101 Resp: 97773
Ion Ratio Lower Upper
101 100
103 64.9 52.2 78.4





#10

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

Concen: 4.931 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

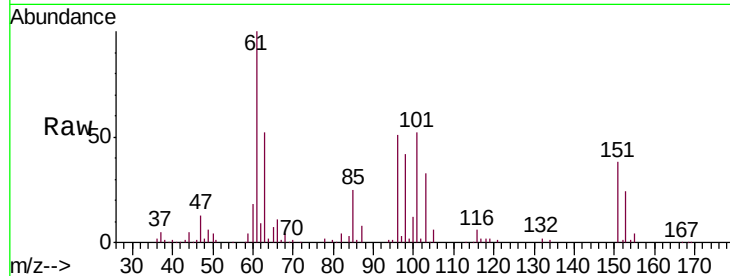
Tgt Ion:101 Resp: 55708

Ion Ratio Lower Upper

101 100

85 45.7 37.4 56.0

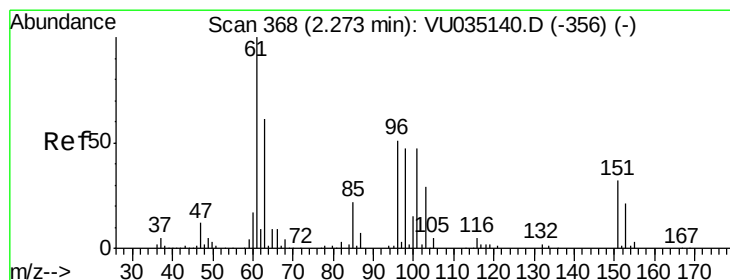
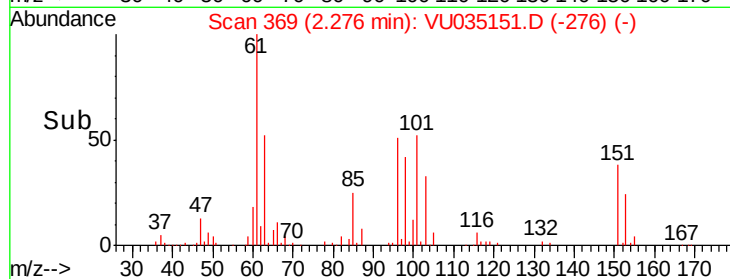
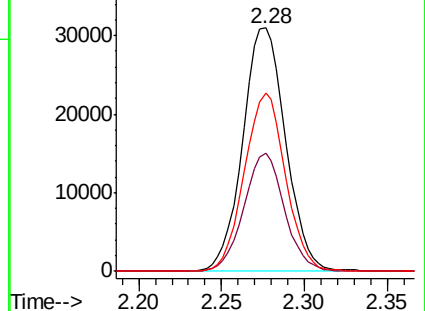
151 70.1 58.6 87.8



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: 4.748 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

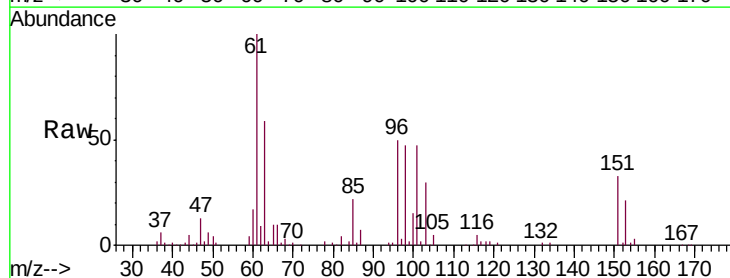
Tgt Ion: 96 Resp: 50387

Ion Ratio Lower Upper

96 100

61 201.9 129.3 240.1

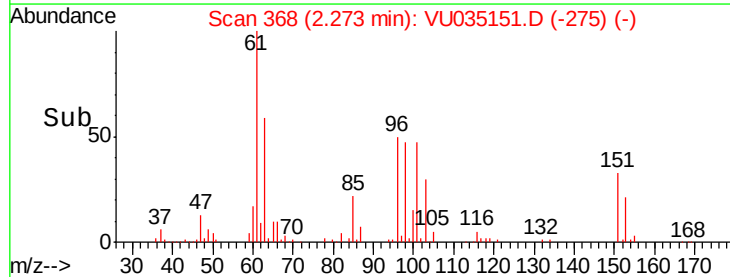
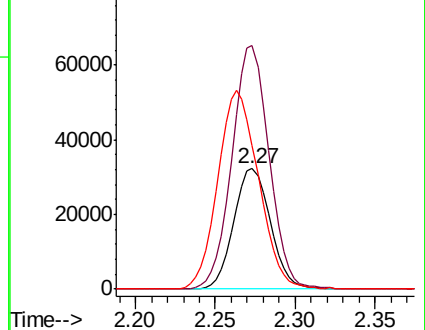
63 118.9 108.9 202.3

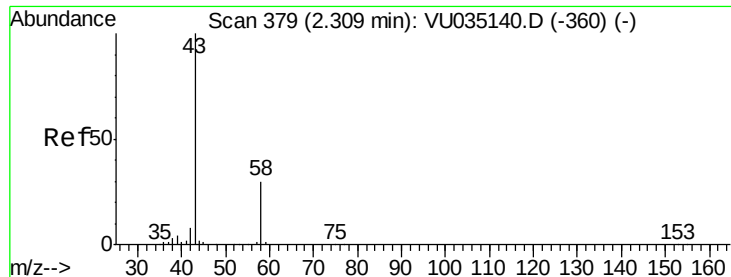


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

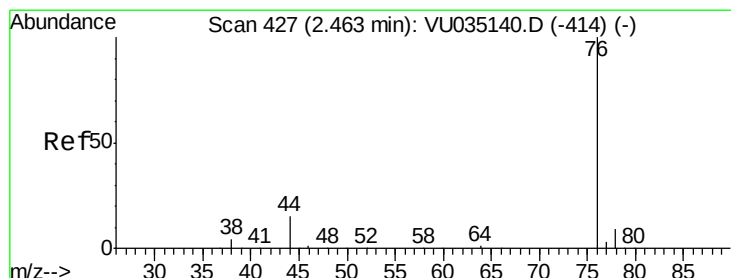
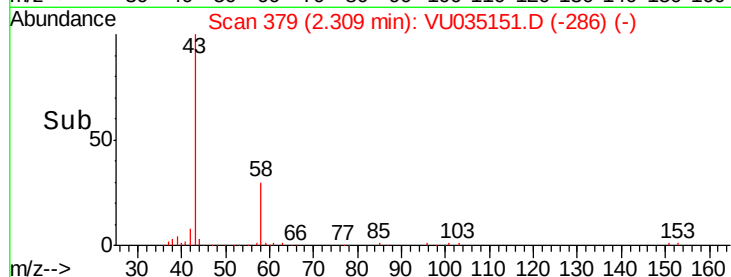
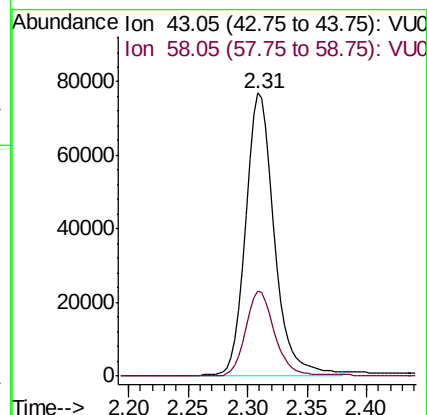
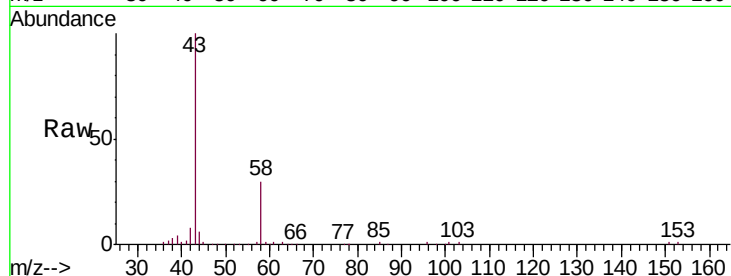




#13
Acetone
Concen: 54.133 ug/L
RT: 2.31 min Scan# 379
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

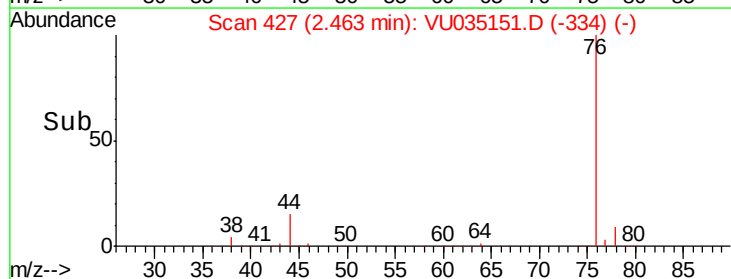
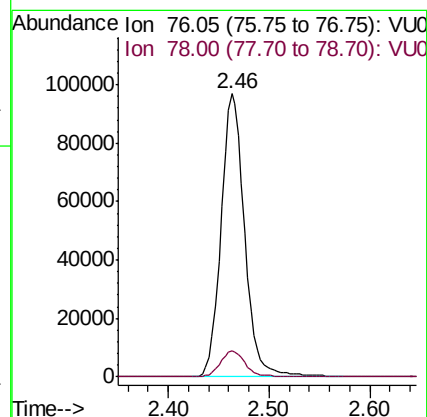
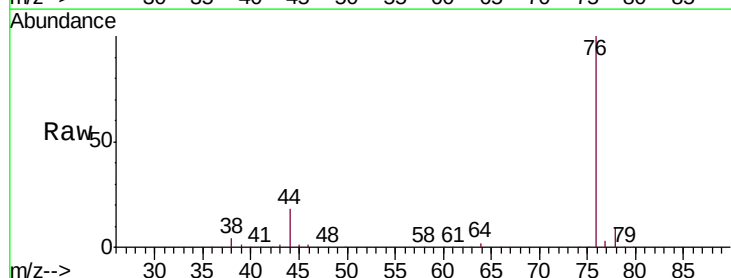
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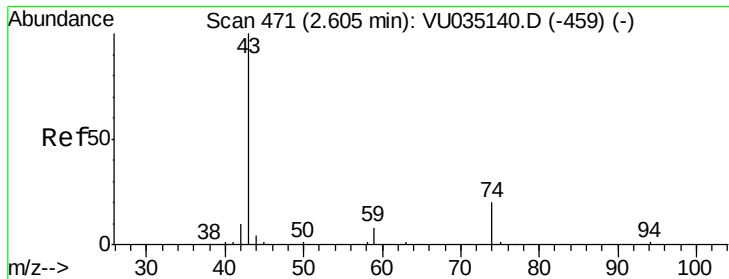
Tgt Ion: 43 Resp: 127512
Ion Ratio Lower Upper
43 100
58 30.6 0.0 66.6



#14
Carbon disulfide
Concen: 4.473 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Tgt Ion: 76 Resp: 157985
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7





#15

Methyl Acetate

Concen: 5.420 ug/L

RT: 2.60 min Scan# 471

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

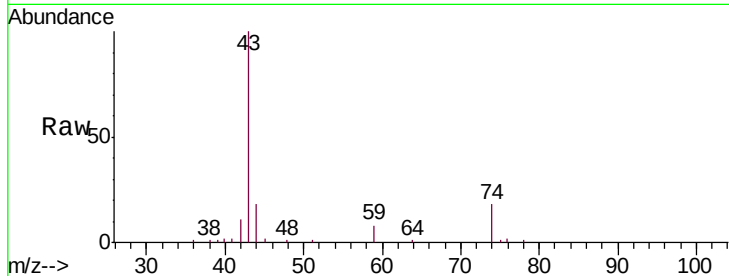
VSTD00519

Tgt Ion: 43 Resp: 33988

Ion Ratio Lower Upper

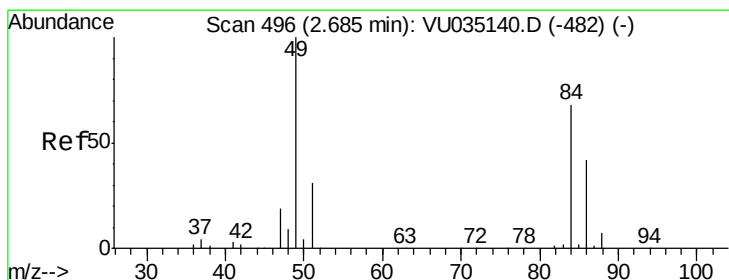
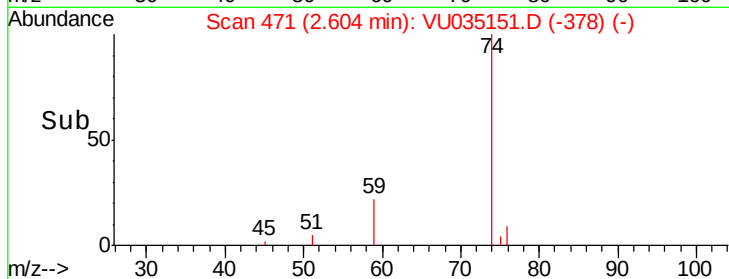
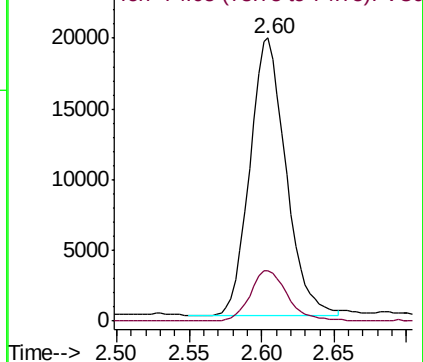
43 100

74 19.1 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VU035140.D (-459) (-)

Ion 74.05 (73.75 to 74.75): VU035140.D (-459) (-)



#16

Methylene chloride

Concen: 4.734 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

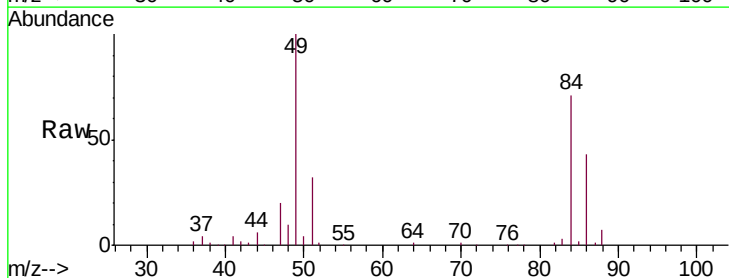
Tgt Ion: 84 Resp: 62194

Ion Ratio Lower Upper

84 100

86 60.9 42.5 78.9

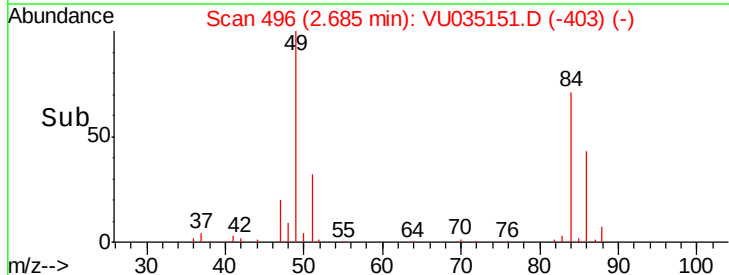
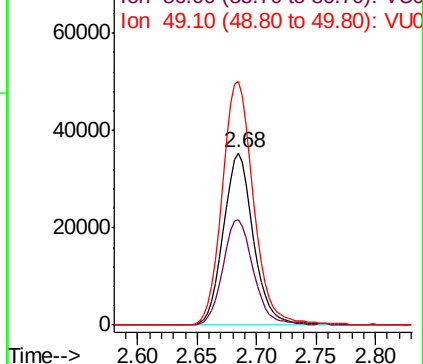
49 141.3 86.9 161.3

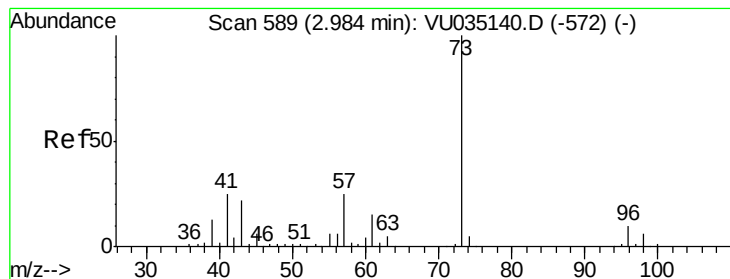


Abundance Ion 84.05 (83.75 to 84.75): VU035140.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU035140.D (-482) (-)

Ion 49.10 (48.80 to 49.80): VU035140.D (-482) (-)



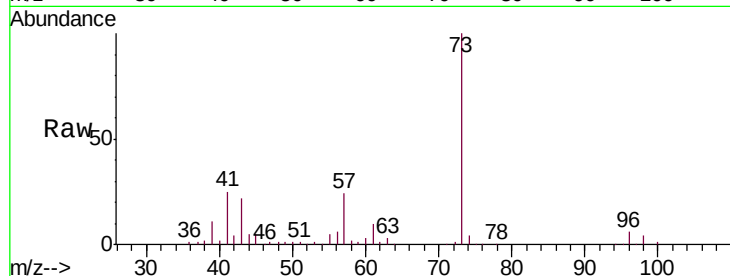


#17

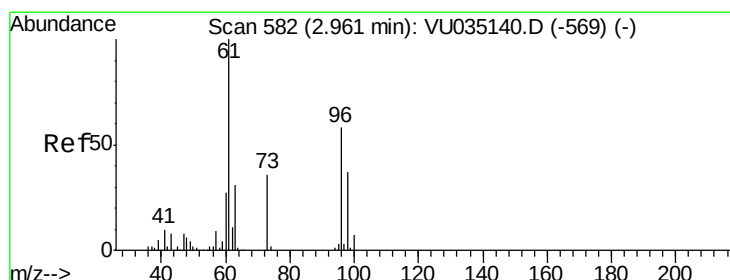
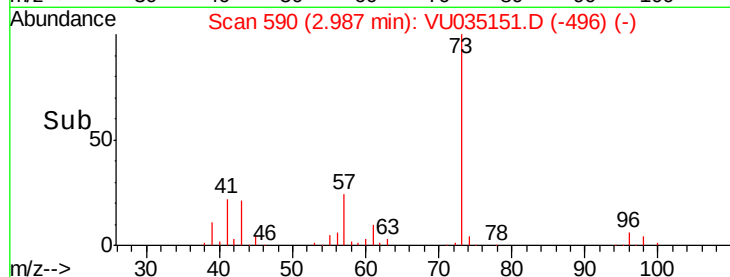
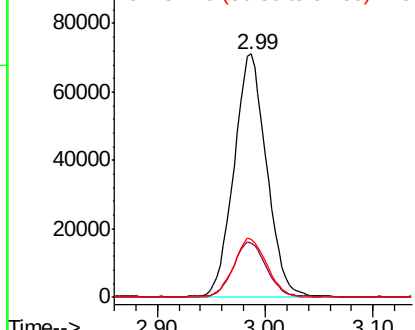
Methyl tert-butyl Ether
 Concen: 5.198 ug/L
 RT: 2.99 min Scan# 590
 Delta R.T. 0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion:	73	Resp:	150485
Ion	Ratio	Lower	Upper
73	100		
43	22.6	16.3	24.5
57	24.5	18.6	28.0



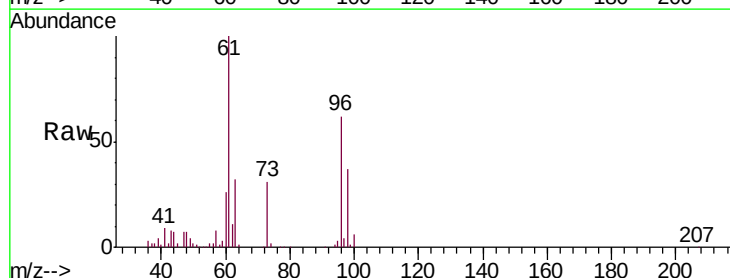
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



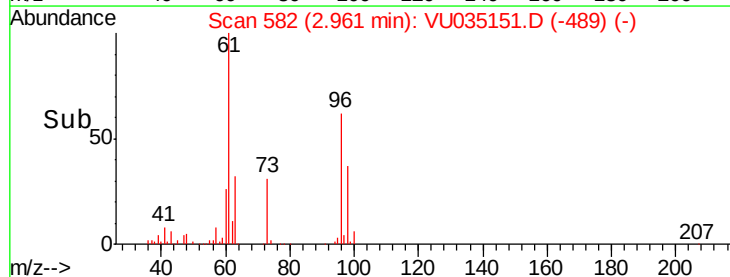
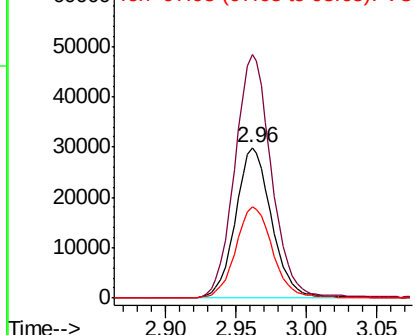
#18

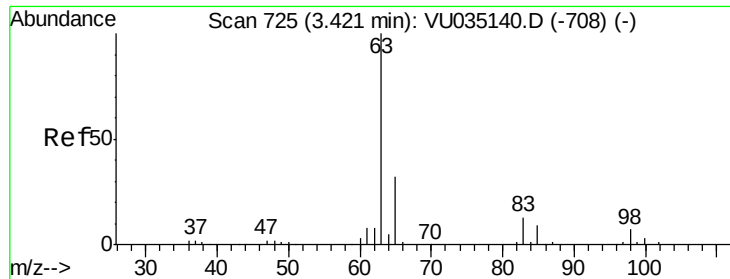
trans-1,2-Dichloroethene
 Concen: 4.705 ug/L
 RT: 2.96 min Scan# 582
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion:	96	Resp:	53465
Ion	Ratio	Lower	Upper
96	100		
61	161.5	107.1	198.9
98	60.1	45.4	84.4



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

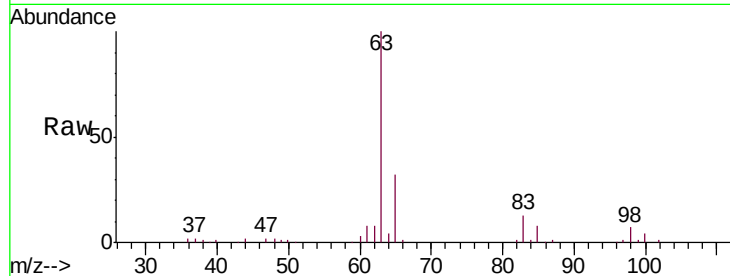




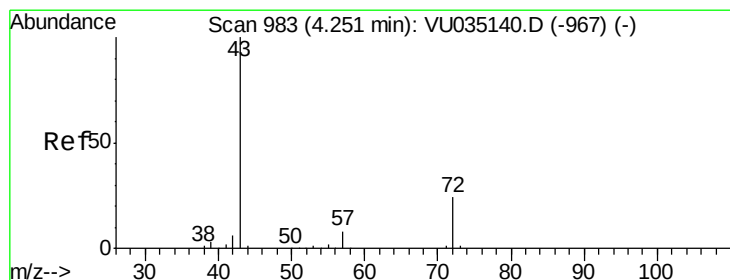
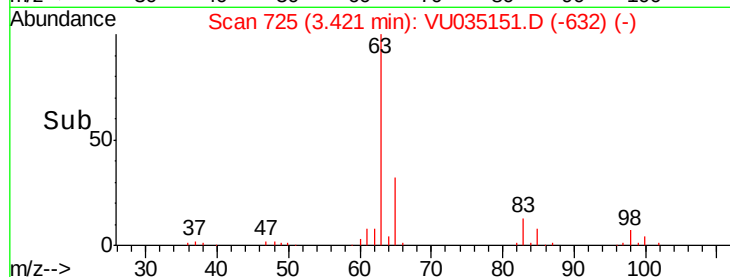
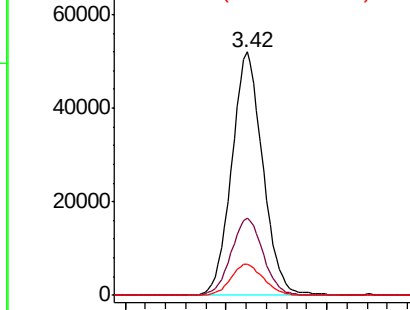
#19
 1,1-Dichloroethane
 Concen: 4.930 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion: 63 Resp: 111353
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.7 40.3
 83 12.8 9.0 16.8

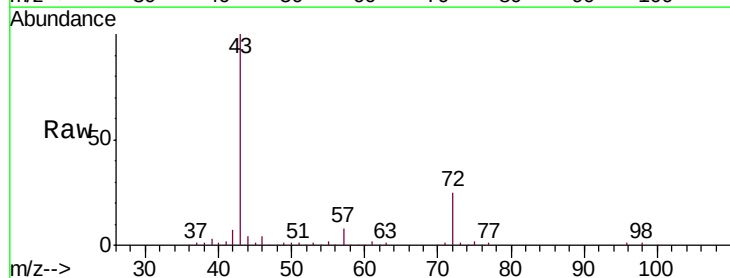


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

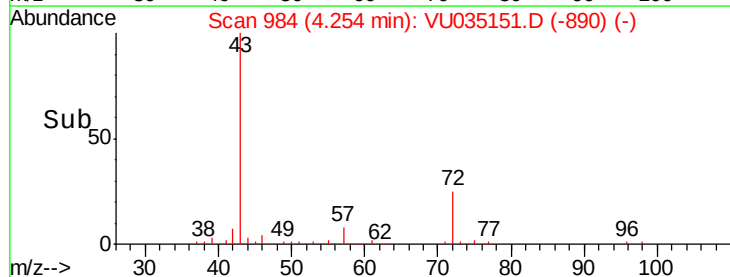
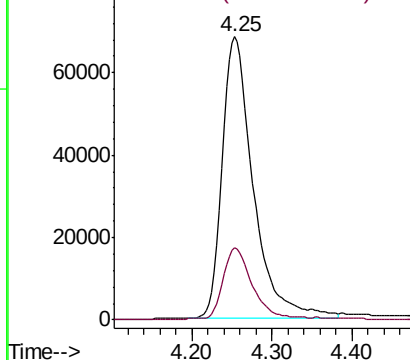


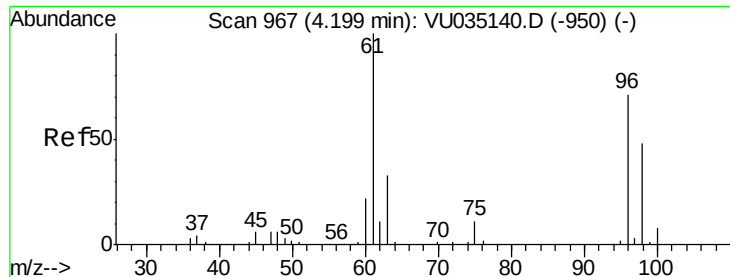
#21
 2-Butanone
 Concen: 54.579 ug/L
 RT: 4.25 min Scan# 984
 Delta R.T. 0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion: 43 Resp: 183083
 Ion Ratio Lower Upper
 43 100
 72 24.8 13.5 40.4



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



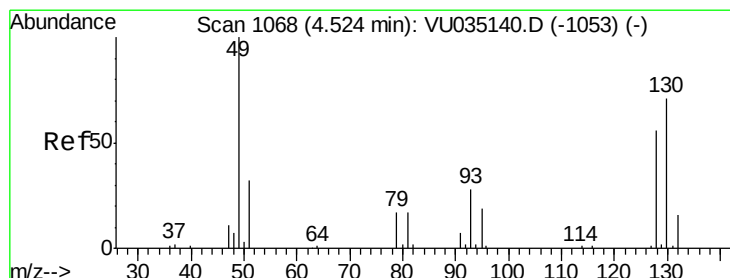
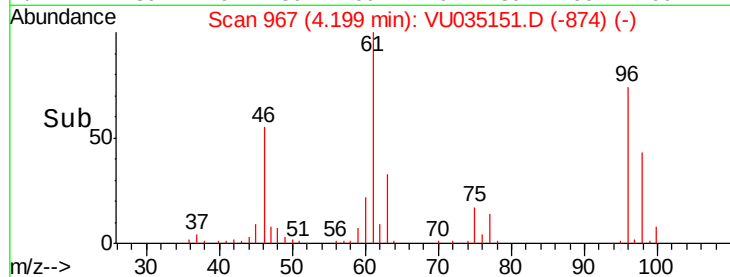
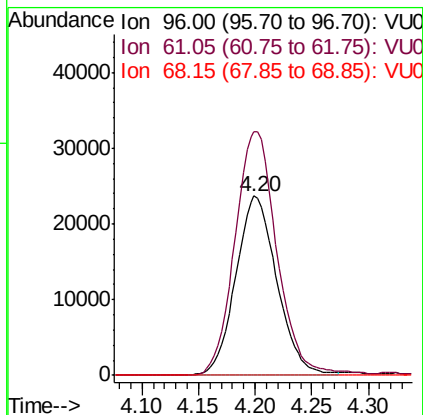
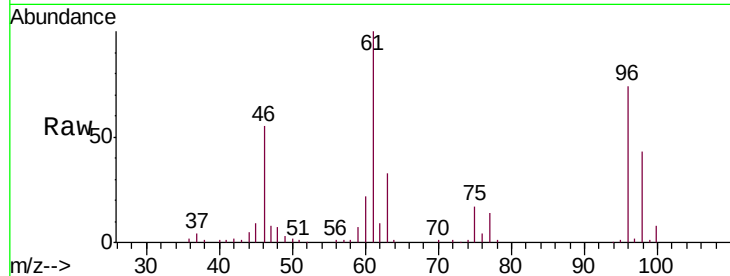


#22

cis-1,2-Dichloroethene
 Concen: 4.728 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

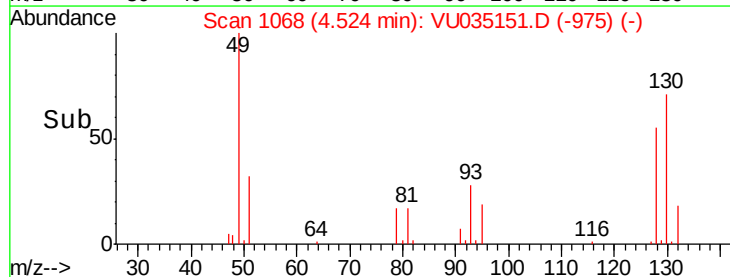
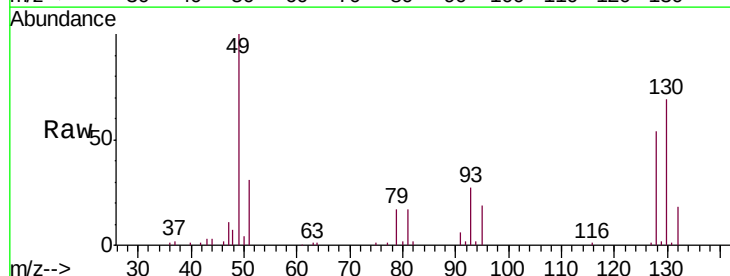
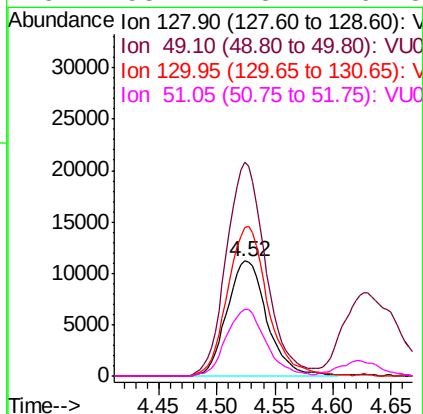
Tgt Ion: 96 Resp: 59926
 Ion Ratio Lower Upper
 96 100
 61 135.6 89.2 165.6
 68 0.0 0.0 0.0

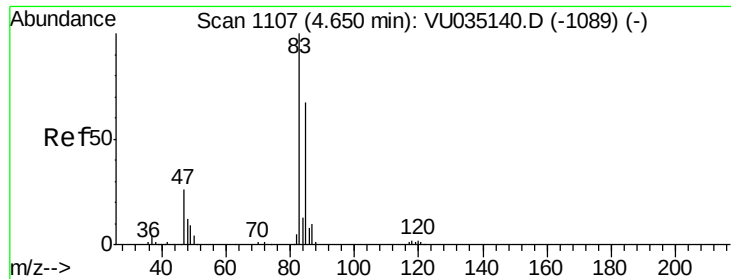


#23

Bromochloromethane
 Concen: 5.056 ug/L
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion: 128 Resp: 26858
 Ion Ratio Lower Upper
 128 100
 49 185.7 110.5 205.3
 130 128.8 88.6 164.6
 51 58.4 43.2 64.8

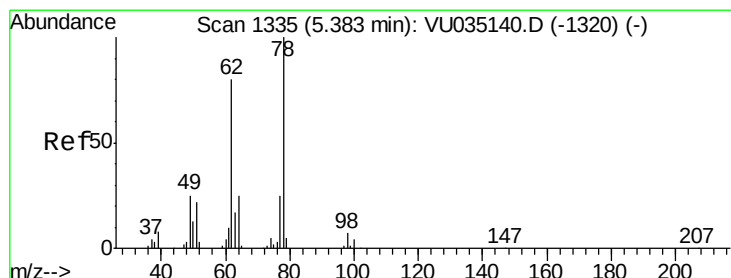
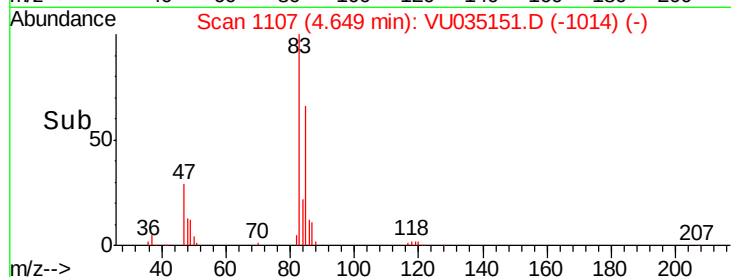
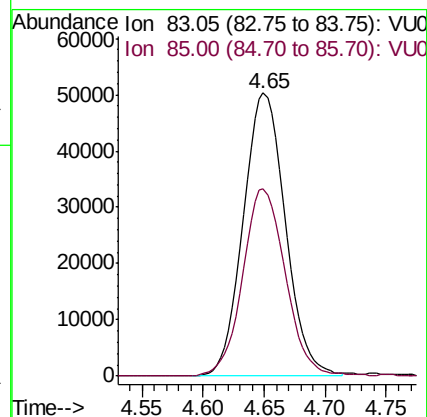
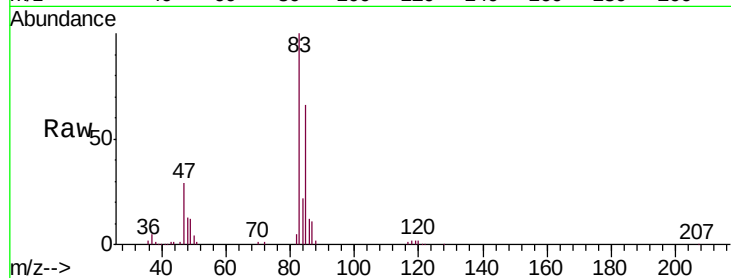




#25
Chloroform
Concen: 4.745 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

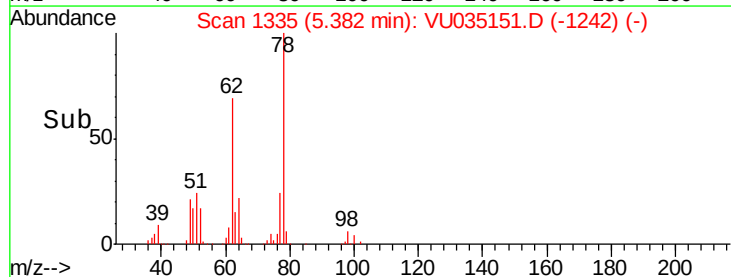
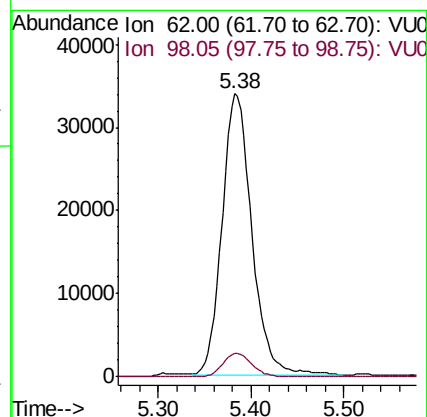
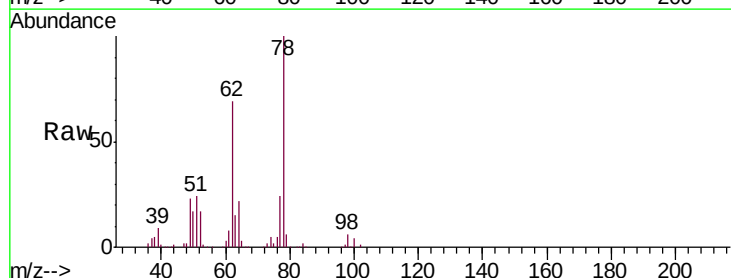
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

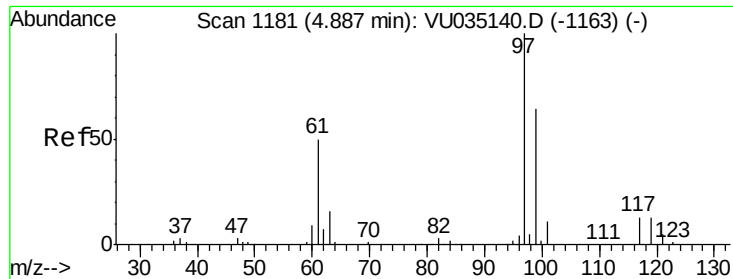
Tgt Ion: 83 Resp: 120405
Ion Ratio Lower Upper
83 100
85 66.3 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.113 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Tgt Ion: 62 Resp: 75772
Ion Ratio Lower Upper
62 100
98 8.2 6.6 10.0

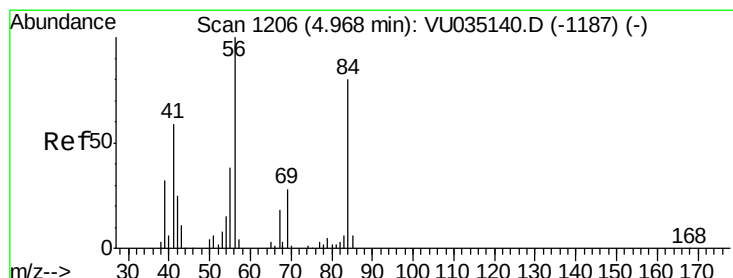
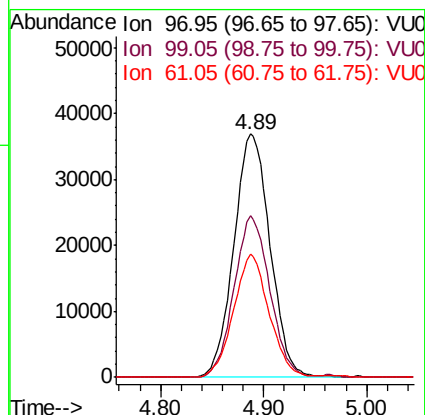
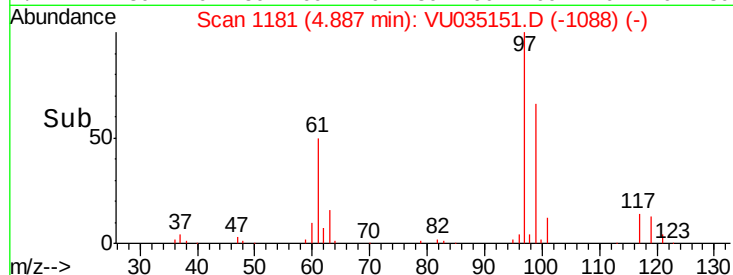
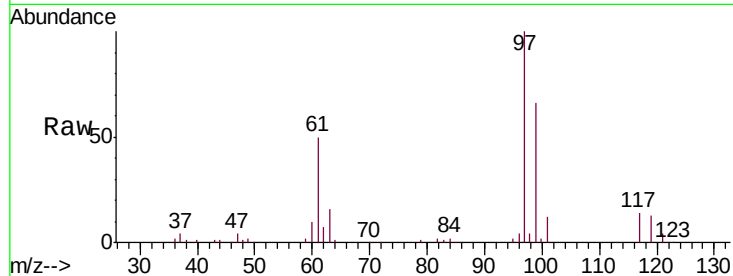




#29
 1,1,1-Trichloroethane
 Concen: 4.723 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

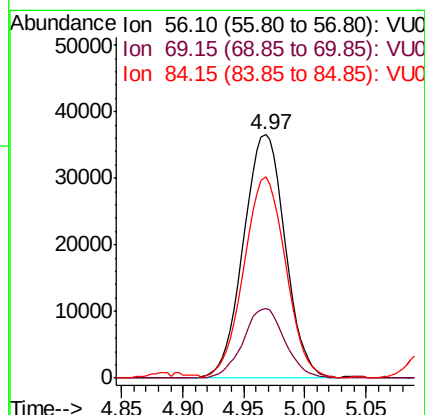
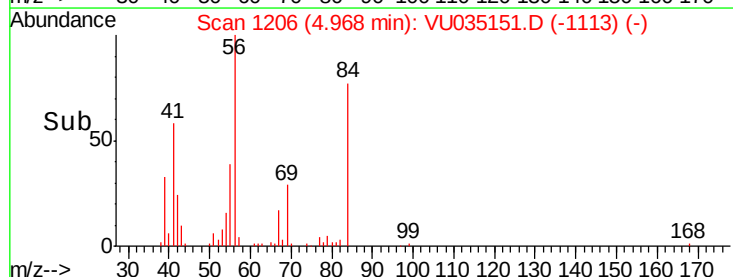
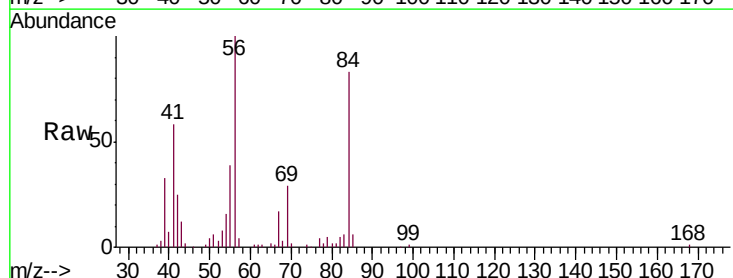
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00519

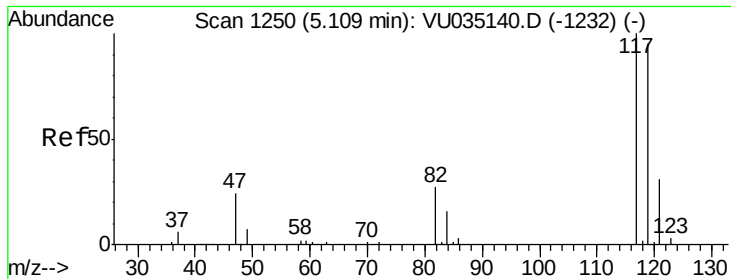
Tgt Ion: 97 Resp: 90316
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.6 77.4
 61 49.5 36.2 54.4



#30
 Cyclohexane
 Concen: 4.125 ug/L
 RT: 4.97 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion: 56 Resp: 86717
 Ion Ratio Lower Upper
 56 100
 69 28.6 23.9 35.9
 84 82.9 69.5 104.3





#31

Carbon tetrachloride

Concen: 4.867 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

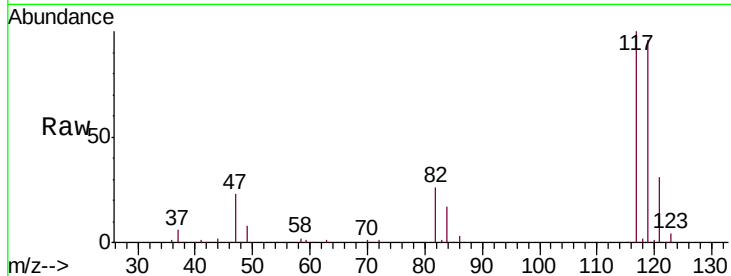
VSTD00519

Tgt Ion:117 Resp: 80693

Ion Ratio Lower Upper

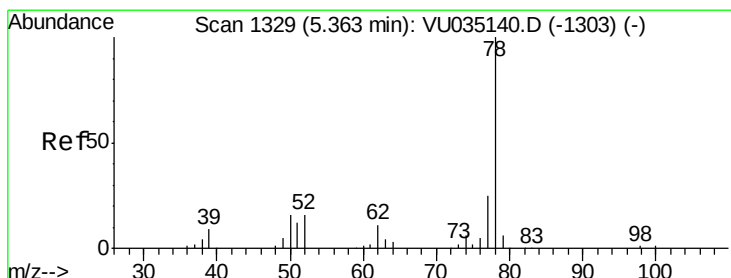
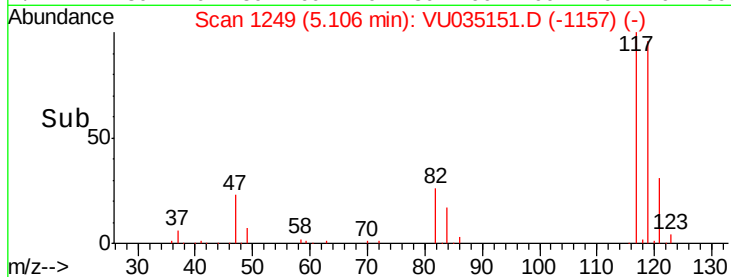
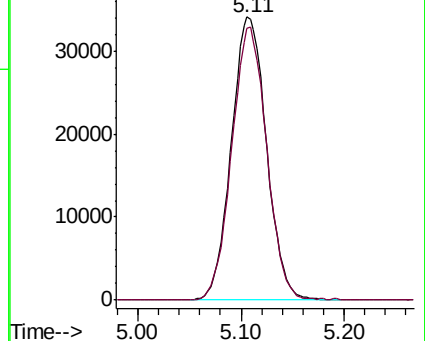
117 100

119 95.9 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.606 ug/L

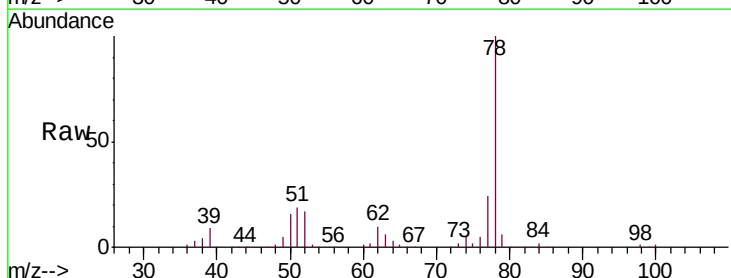
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

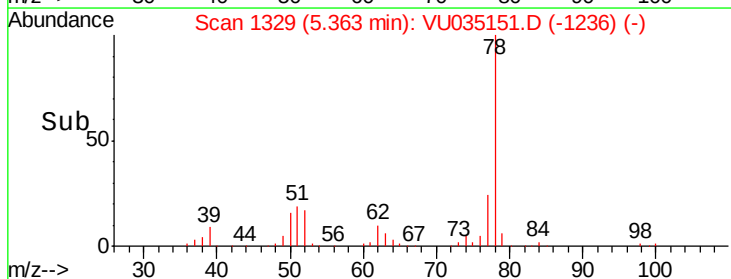
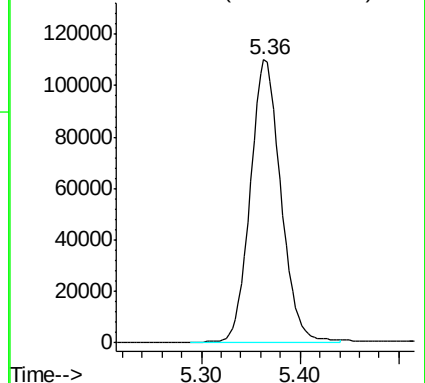
Lab File: VU035151.D

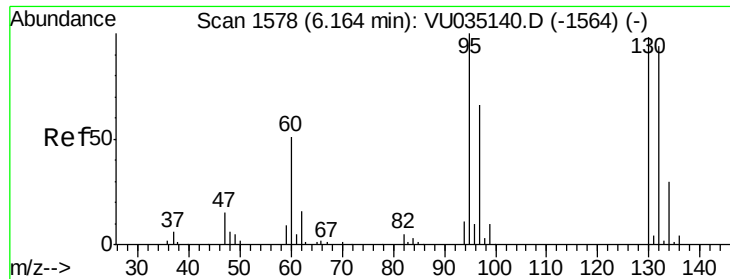
Acq: 14 Oct 2019 15:34

Tgt Ion: 78 Resp: 236193



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.629 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

Tgt Ion: 95 Resp: 61218

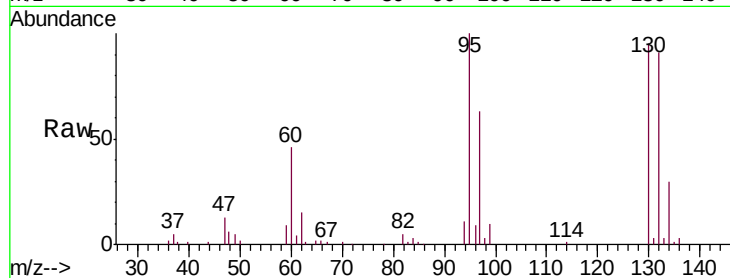
Ion Ratio Lower Upper

95 100

97 62.5 44.5 82.7

132 91.3 66.6 123.8

130 95.3 68.9 127.9

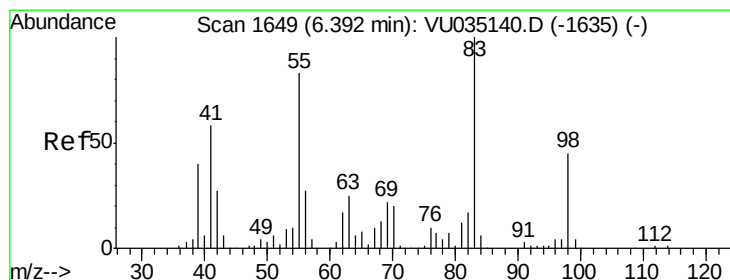
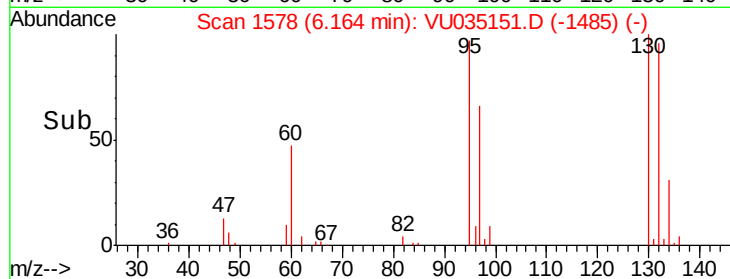
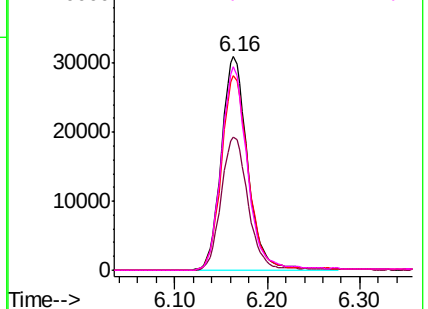


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.185 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

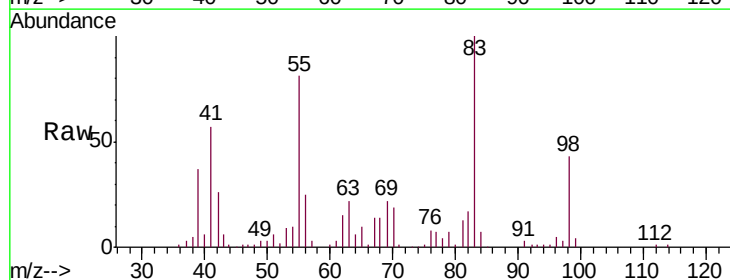
Tgt Ion: 83 Resp: 89653

Ion Ratio Lower Upper

83 100

55 82.7 62.6 94.0

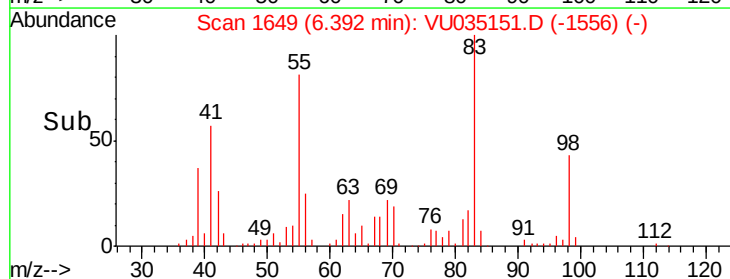
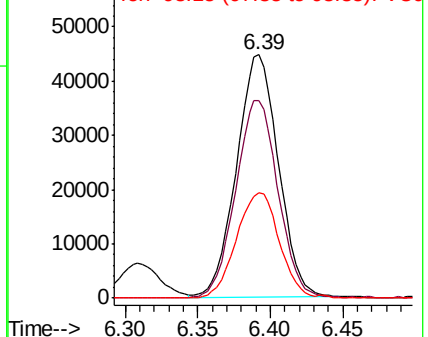
98 44.3 36.2 54.2

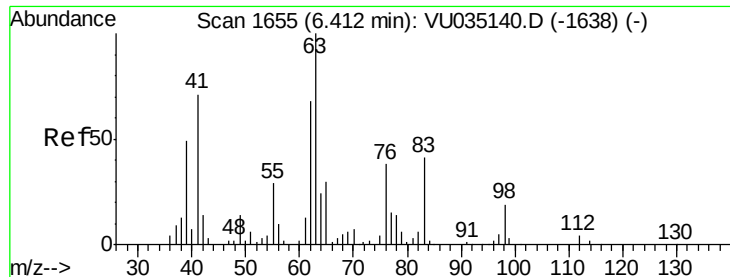


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

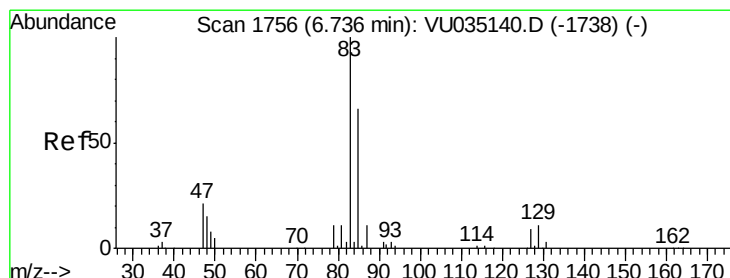
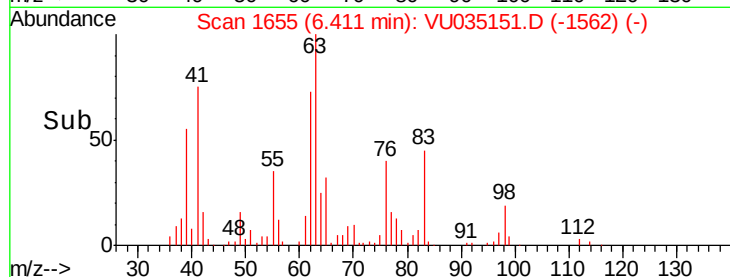
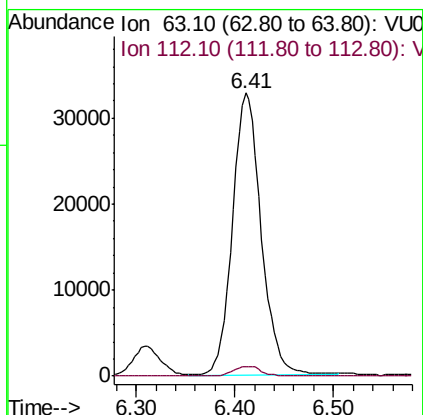
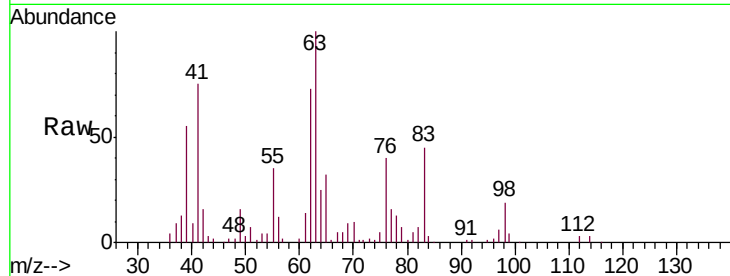




#37
 1,2-Dichloropropane
 Concen: 4.819 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

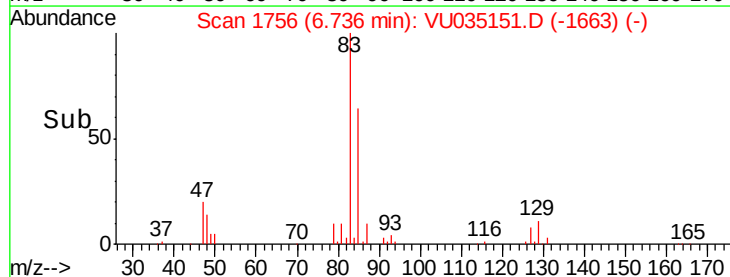
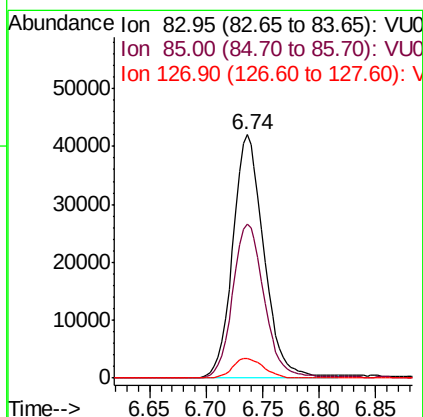
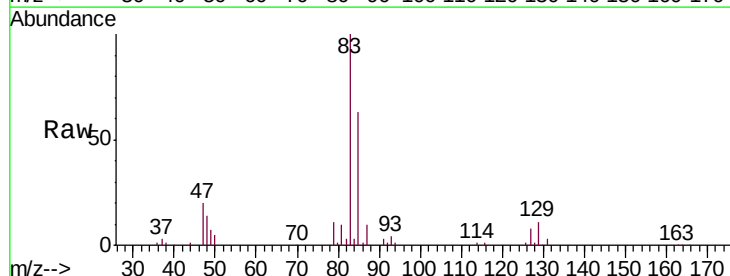
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

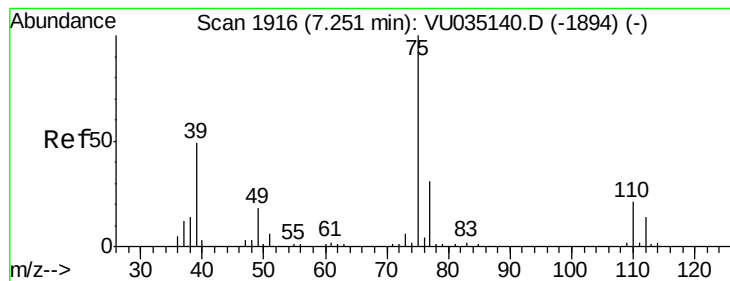
Tgt Ion: 63 Resp: 66665
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.1 4.7



#38
 Bromodichloromethane
 Concen: 4.981 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion: 83 Resp: 80769
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.0 81.8
 127 8.0 7.0 10.4



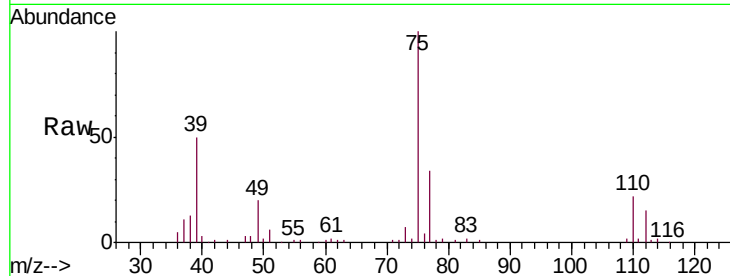


#39

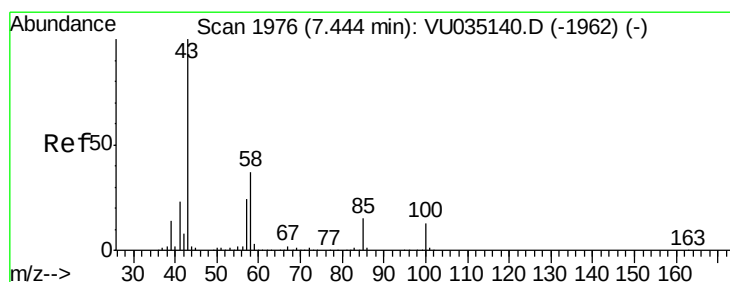
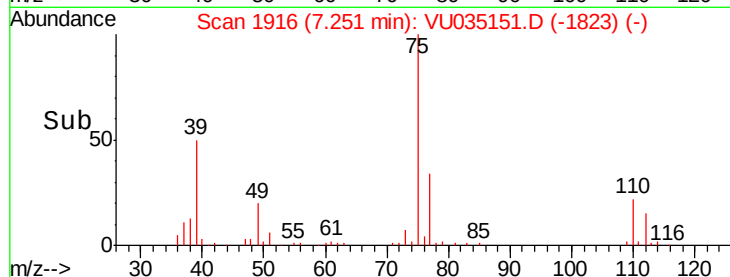
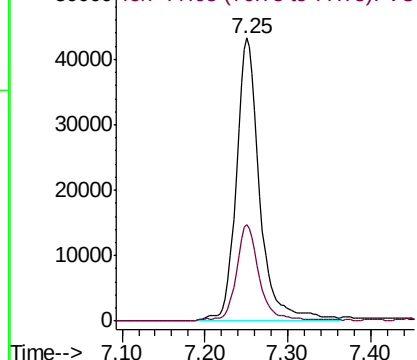
cis-1,3-Dichloropropene
 Concen: 4.601 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion: 75 Resp: 86223
 Ion Ratio Lower Upper
 75 100
 77 34.1 22.1 41.1



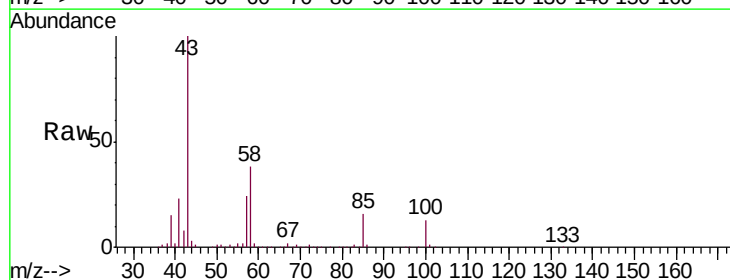
Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 77.05 (76.75 to 77.75): VU0



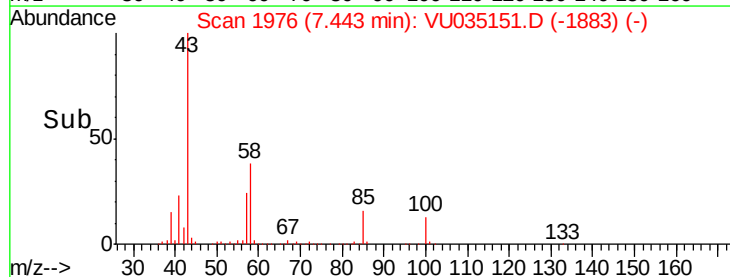
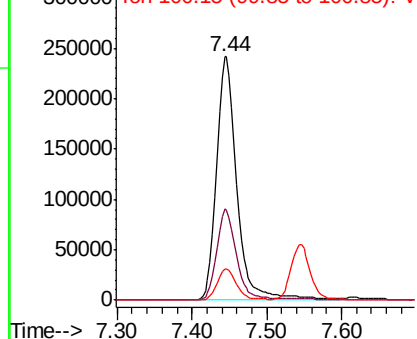
#40

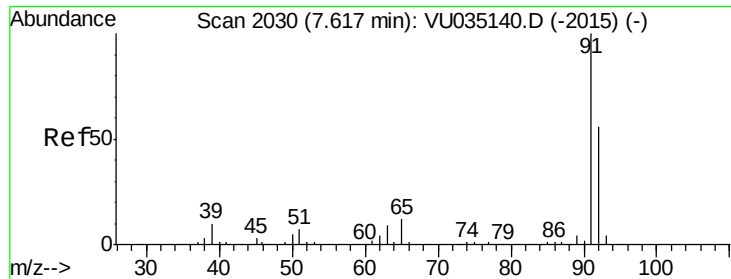
4-Methyl-2-pentanone
 Concen: 52.533 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion: 43 Resp: 457371
 Ion Ratio Lower Upper
 43 100
 58 36.3 32.4 48.6
 100 12.5 11.9 17.9



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 4.817 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

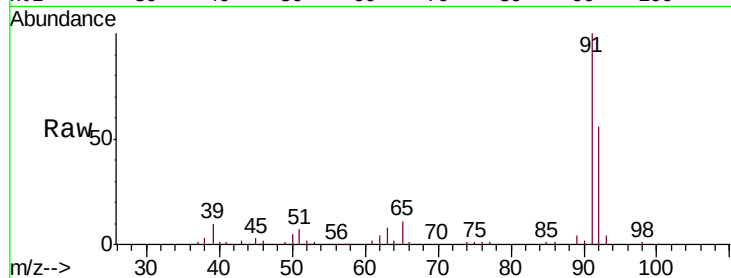
VSTD00519

Tgt Ion: 91 Resp: 257862

Ion Ratio Lower Upper

91 100

92 56.4 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035140.D (-2015) (-)

Ion 92.15 (91.85 to 92.85): VU035140.D (-2015) (-)

7.62

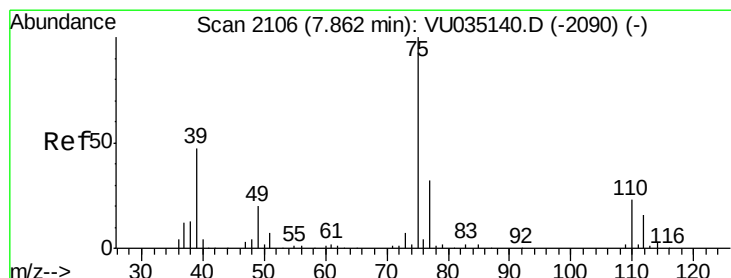
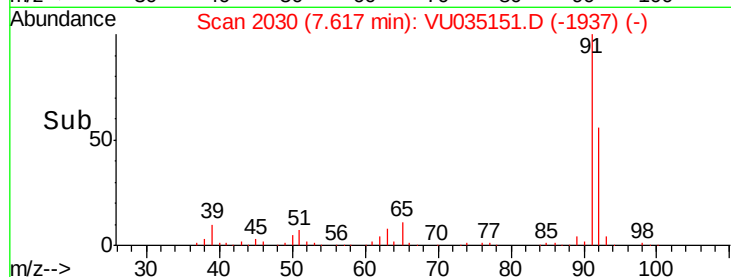
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 4.865 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU035151.D

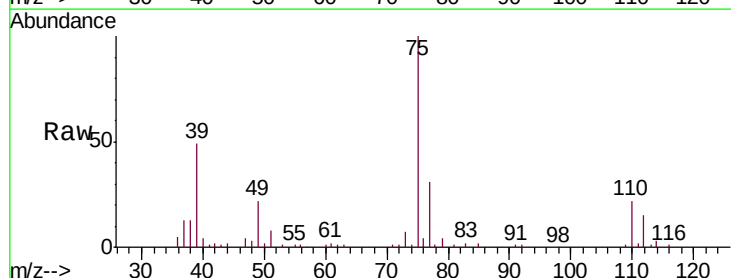
Acq: 14 Oct 2019 15:34

Tgt Ion: 75 Resp: 70612

Ion Ratio Lower Upper

75 100

77 31.3 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU035140.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU035140.D (-2090) (-)

7.86

40000

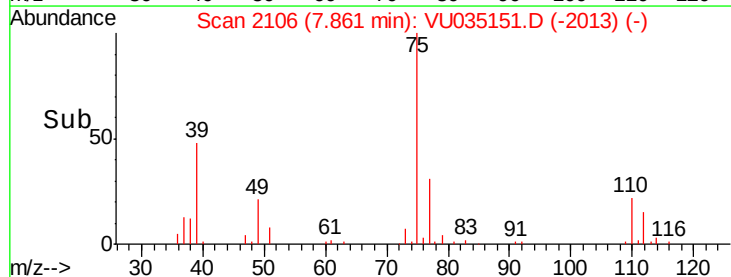
30000

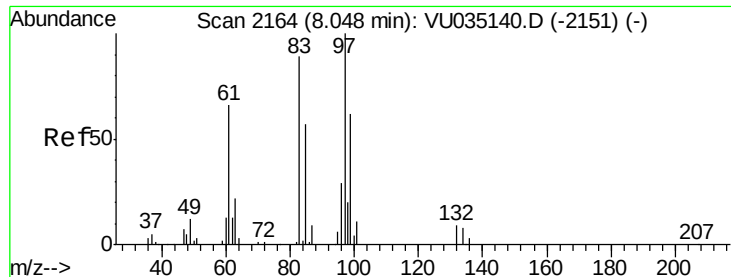
20000

10000

0

Time--> 7.80 7.90 8.00

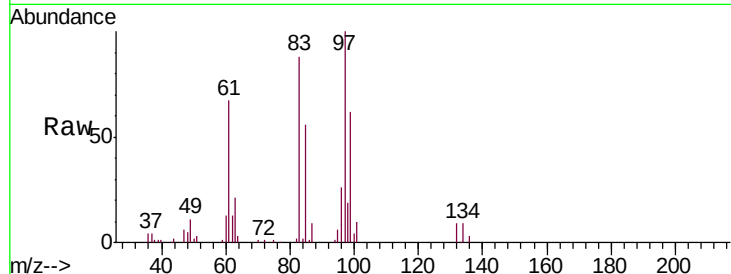




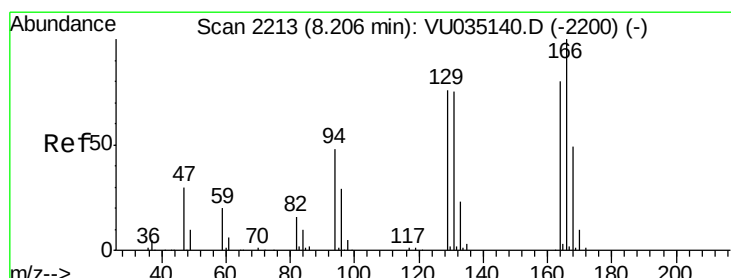
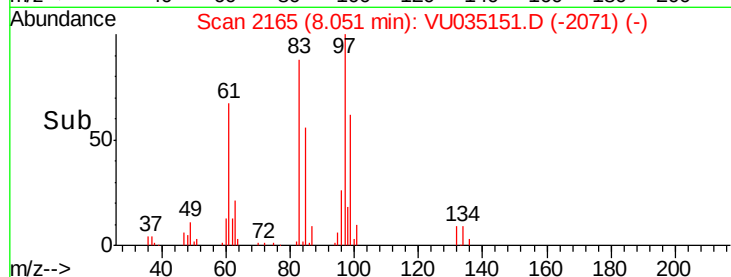
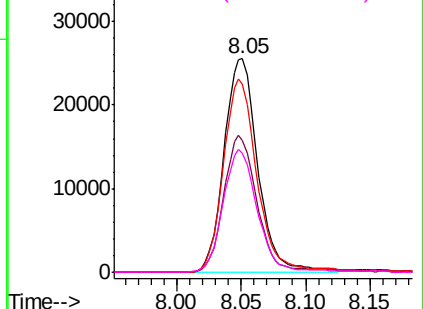
#45
 1,1,2-Trichloroethane
 Concen: 5.041 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion:	97	Resp:	46303
Ion	Ratio	Lower	Upper
97	100		
99	61.9	42.3	78.5
83	87.8	58.0	107.6
85	55.6	37.8	70.2

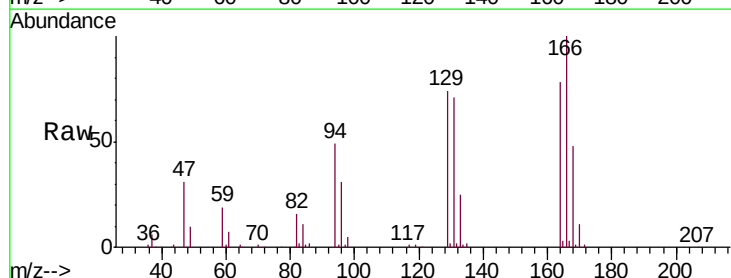


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

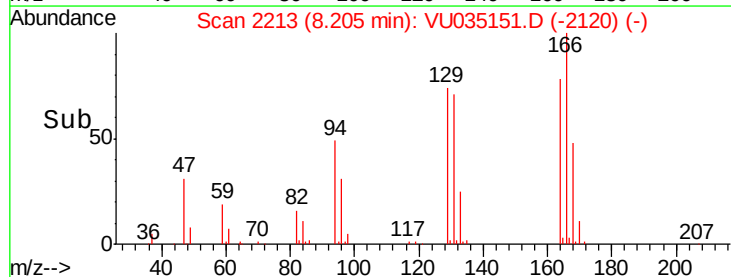
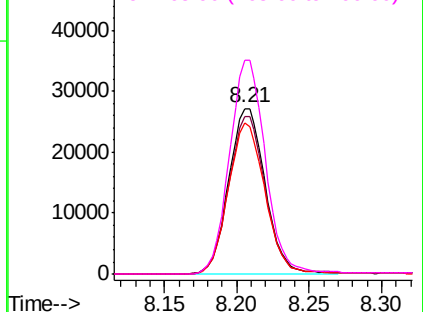


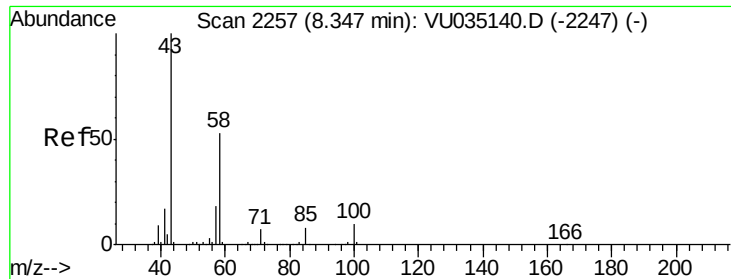
#47
 Tetrachloroethene
 Concen: 4.450 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion:	164	Resp:	47637
Ion	Ratio	Lower	Upper
164	100		
129	95.1	68.5	127.1
131	91.1	67.3	124.9
166	128.8	93.1	172.9



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

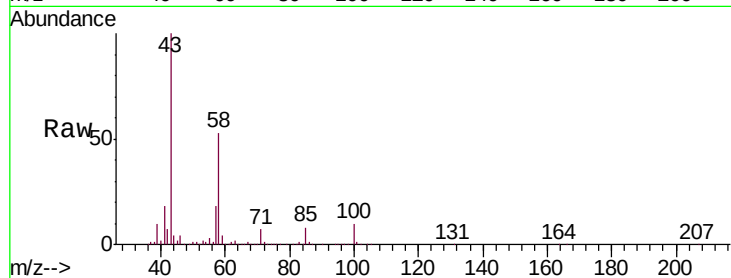




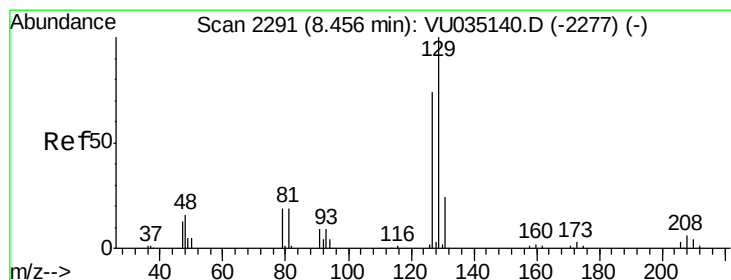
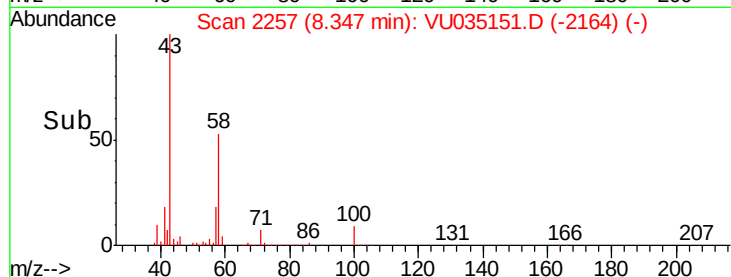
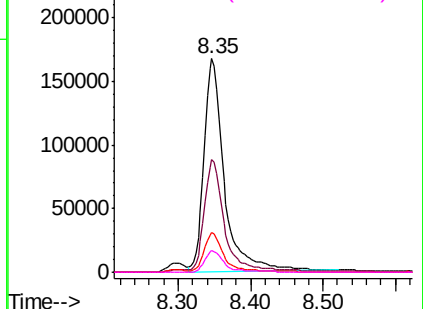
#48
2-Hexanone
Concen: 54.701 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tgt Ion:	43	Resp:	326534
Ion	Ratio	Lower	Upper
43	100		
58	51.9	44.1	66.1
57	17.4	15.8	23.8
100	9.8	9.4	14.2

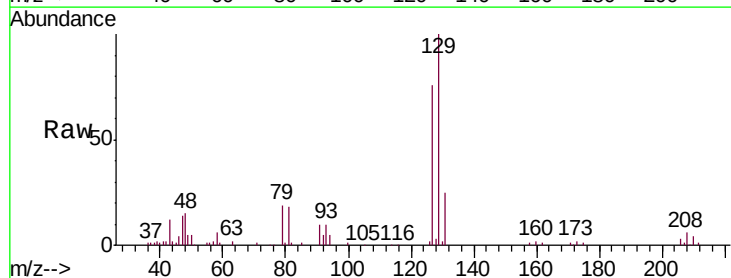


Abundance Ion 43.05 (42.75 to 43.75): VU035151.D (-2164) (-)
Ion 58.05 (57.75 to 58.75): VU035151.D (-2164) (-)
Ion 57.20 (56.90 to 57.90): VU035151.D (-2164) (-)
Ion 100.15 (99.85 to 100.85): VU035151.D (-2164) (-)

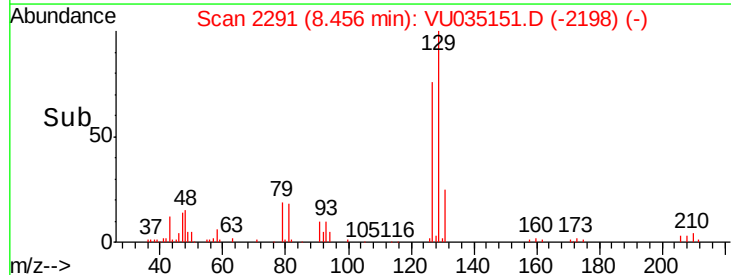
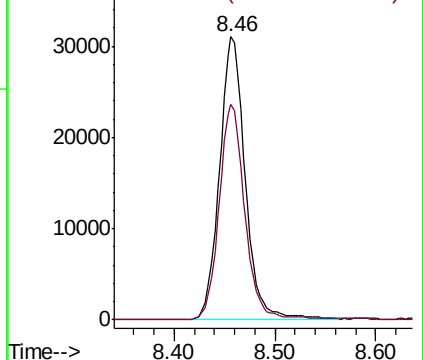


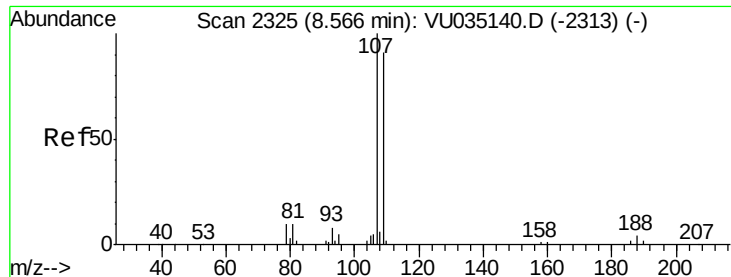
#49
Dibromochloromethane
Concen: 5.219 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Tgt Ion:	129	Resp:	55405
Ion	Ratio	Lower	Upper
129	100		
127	76.3	51.9	96.5



Abundance Ion 128.95 (128.65 to 129.65): VU035151.D (-2198) (-)
Ion 126.90 (126.60 to 127.60): VU035151.D (-2198) (-)





#50

1,2-Dibromoethane

Concen: 5.096 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

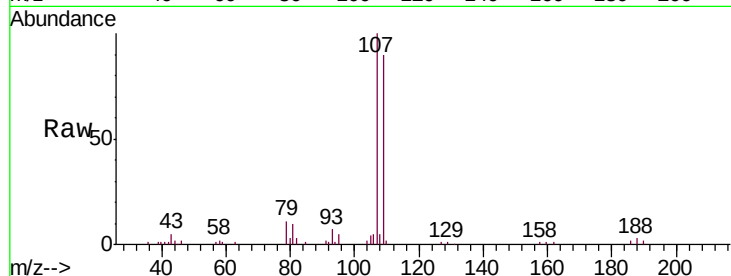
Tgt Ion:107 Resp: 44733

Ion Ratio Lower Upper

107 100

109 90.2 64.8 120.4

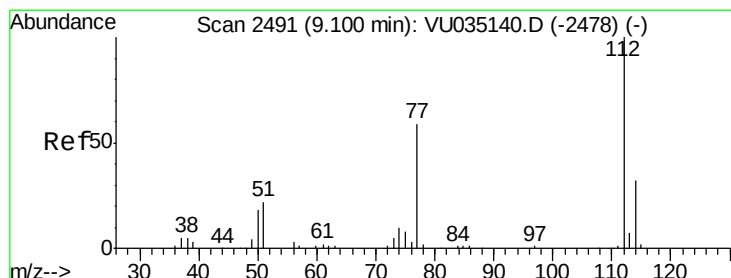
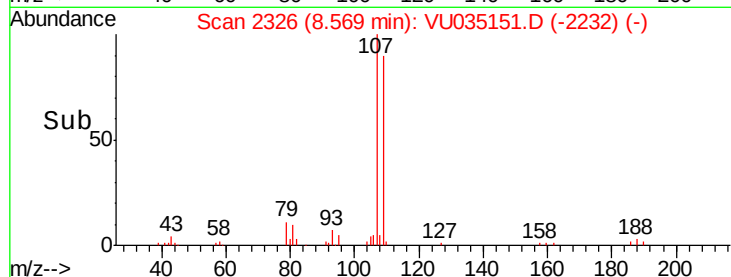
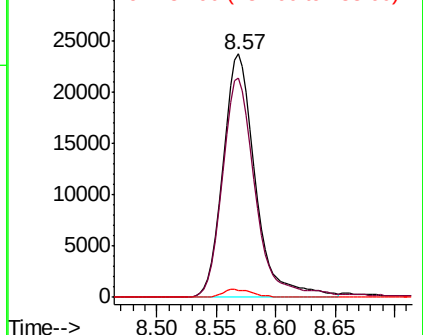
188 3.1 3.0 4.6



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.630 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

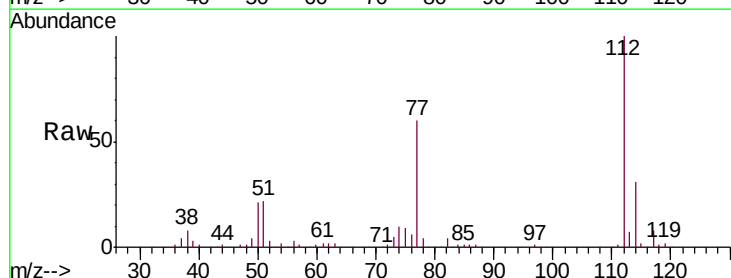
Tgt Ion:112 Resp: 160594

Ion Ratio Lower Upper

112 100

114 31.5 22.1 41.1

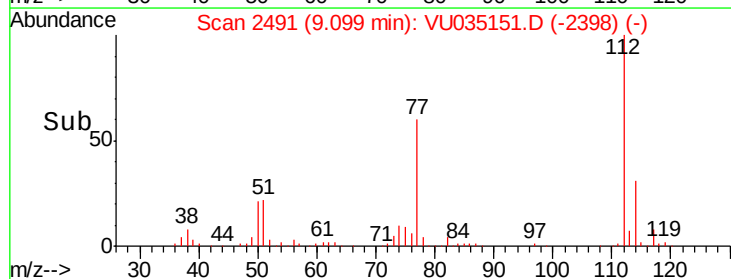
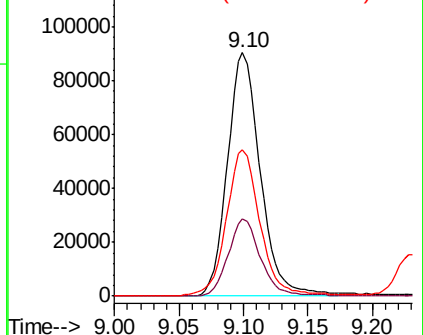
77 60.4 46.9 70.3

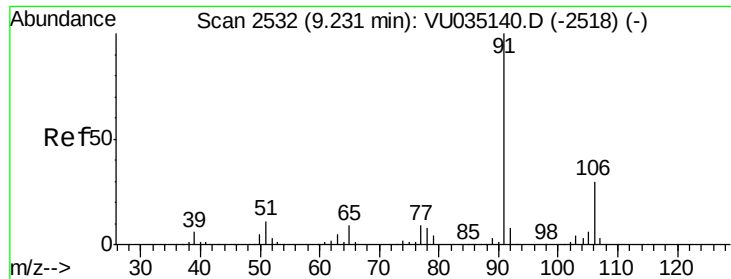


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU

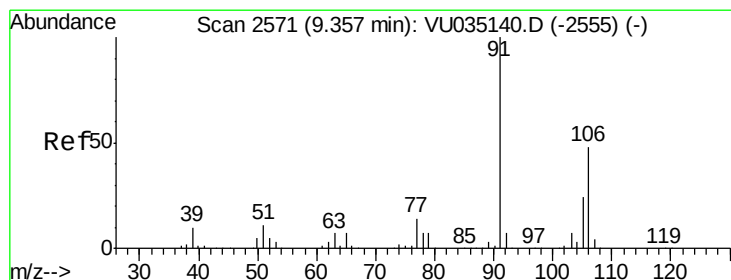
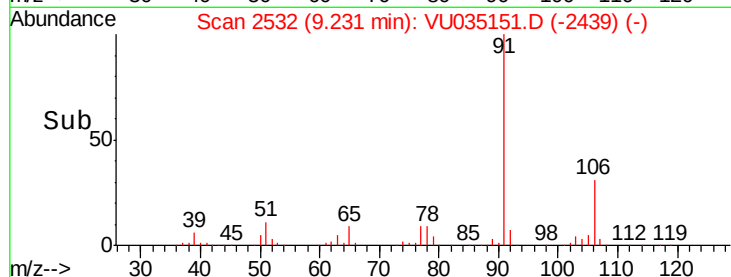
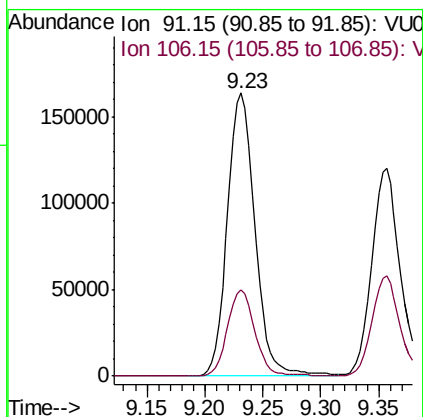
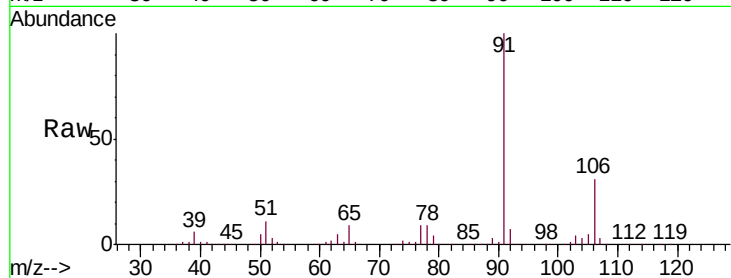




#52
Ethylbenzene
Concen: 4.577 ug/L
RT: 9.23 min Scan# 2532
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

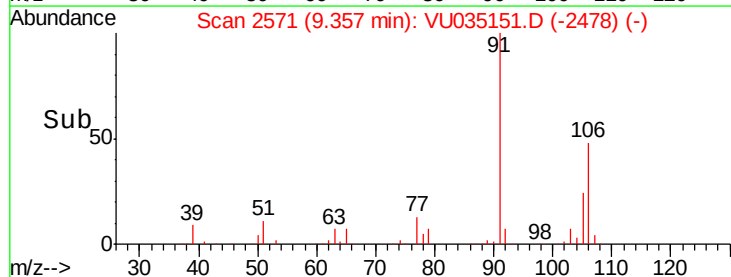
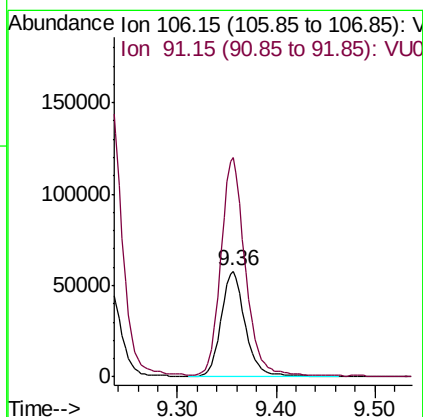
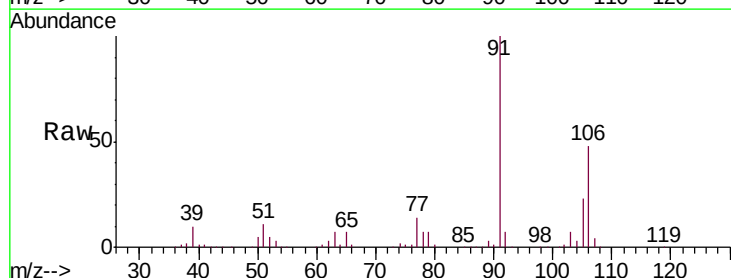
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

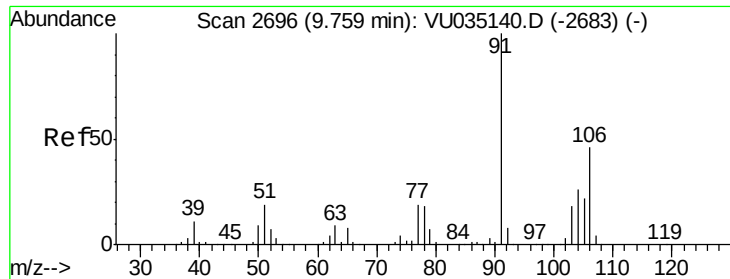
Tgt Ion: 91 Resp: 270599
Ion Ratio Lower Upper
91 100
106 30.6 21.6 40.2



#53
m,p-Xylene
Concen: 4.511 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Tgt Ion: 106 Resp: 98524
Ion Ratio Lower Upper
106 100
91 208.0 147.6 274.0

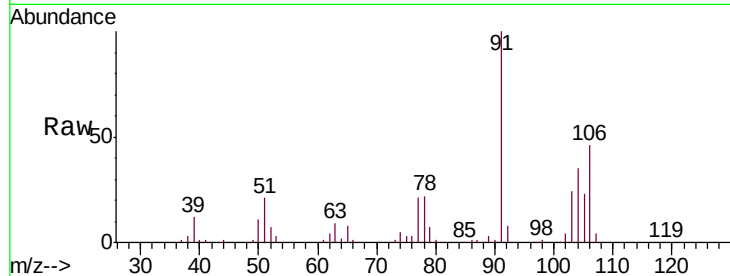




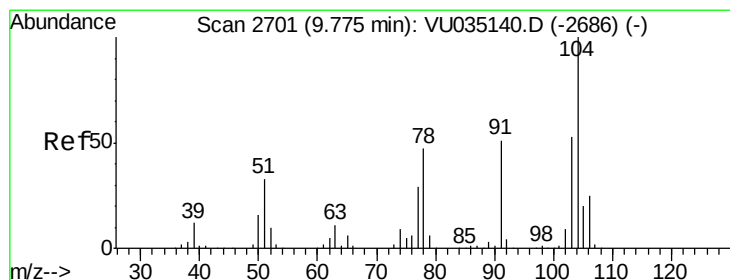
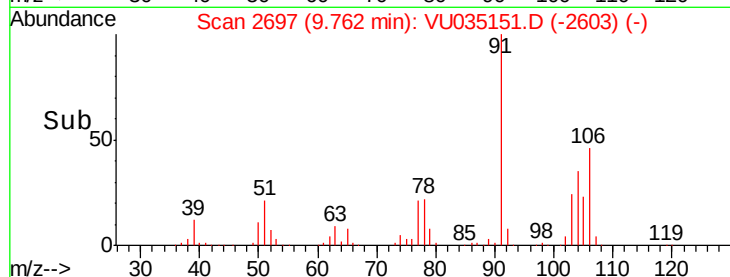
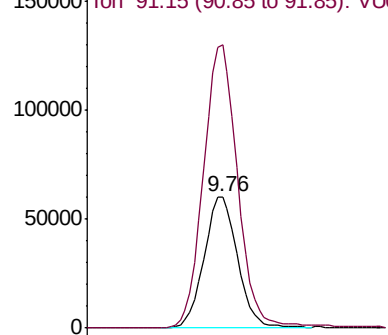
#54
o-Xylene
Concen: 4.527 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tgt Ion:106 Resp: 96690
Ion Ratio Lower Upper
106 100
91 215.3 148.5 275.7

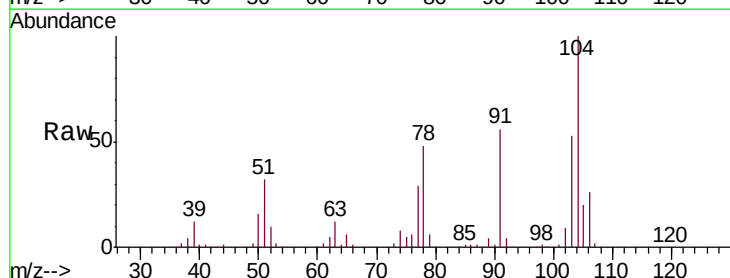


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

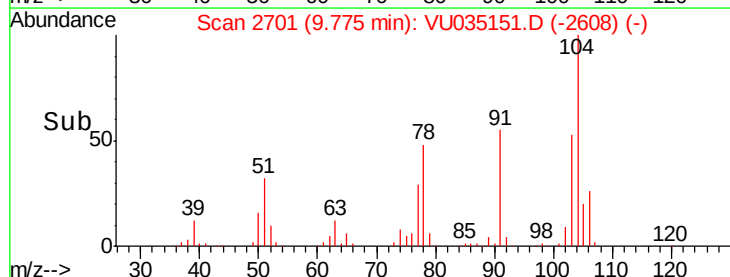
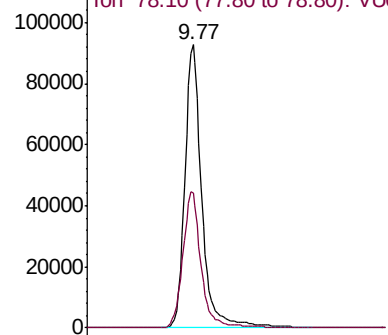


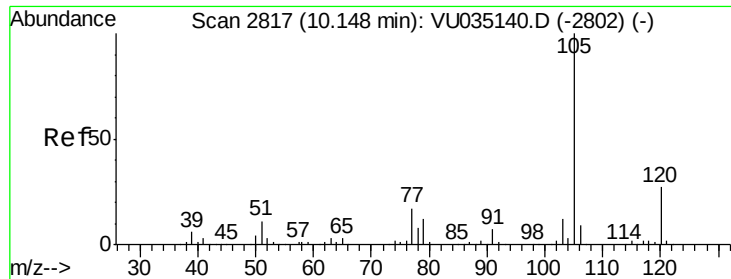
#55
Styrene
Concen: 4.914 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU035151.D
Acq: 14 Oct 2019 15:34

Tgt Ion:104 Resp: 169971
Ion Ratio Lower Upper
104 100
78 47.7 32.8 60.8



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





#56

Isopropylbenzene

Concen: 4.562 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

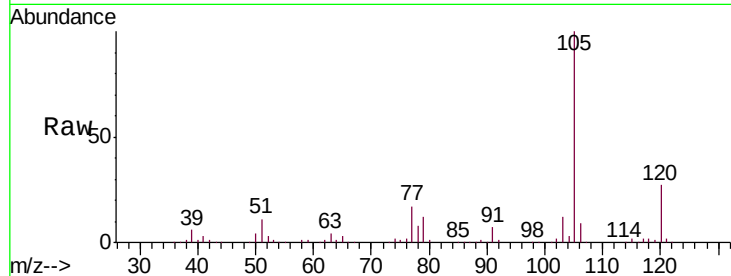
Tgt Ion: 105 Resp: 259572

Ion Ratio Lower Upper

105 100

120 26.1 21.3 31.9

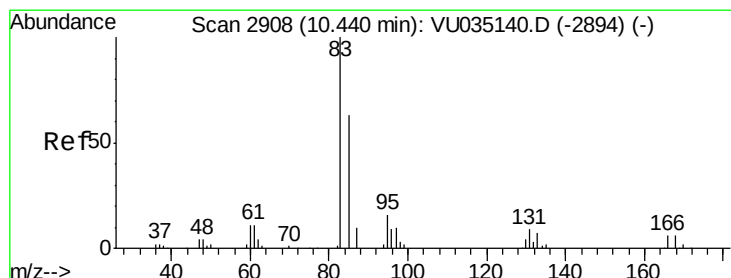
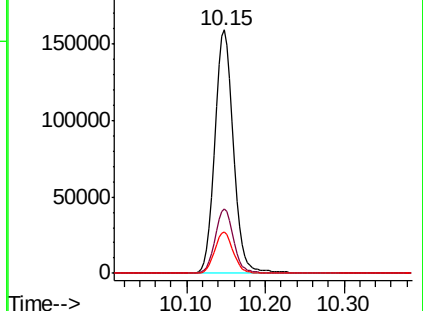
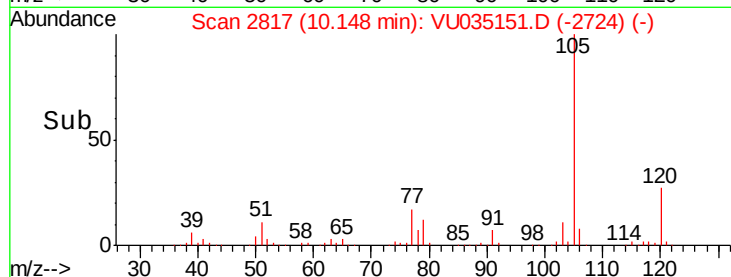
77 17.0 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.174 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

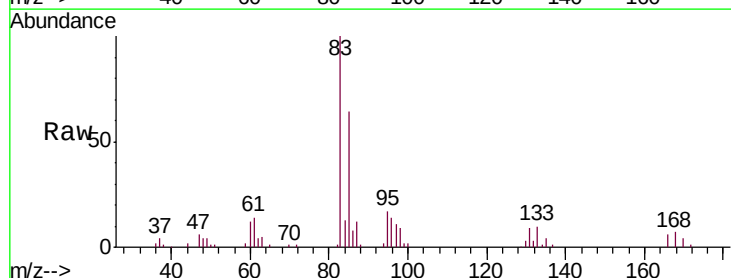
Tgt Ion: 83 Resp: 64622

Ion Ratio Lower Upper

83 100

85 64.3 44.6 82.8

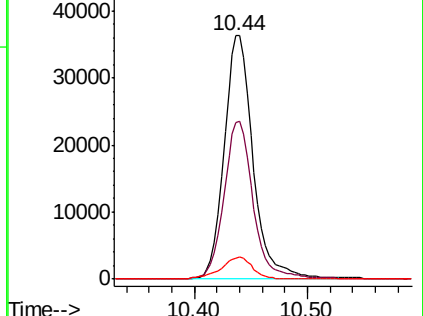
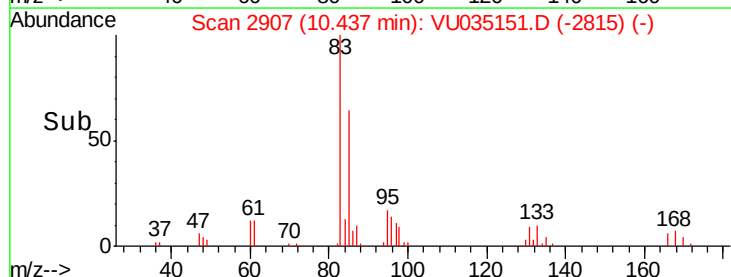
131 8.8 7.4 11.2

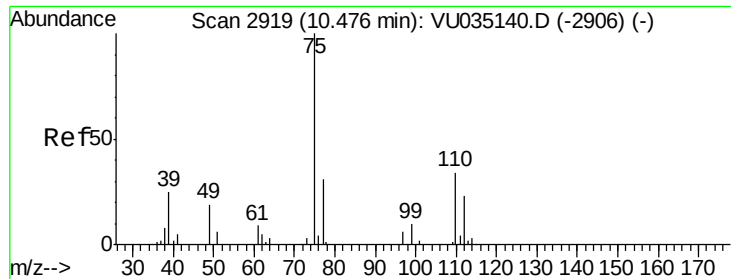


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.174 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

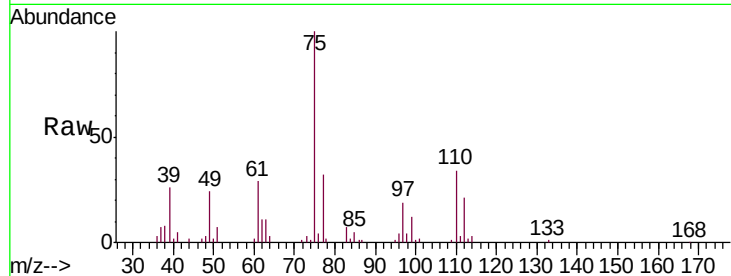
VSTD00519

Tgt Ion: 75 Resp: 46332

Ion Ratio Lower Upper

75 100

77 32.3 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU035140.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU035140.D (-2906) (-)

10.48

25000

20000

15000

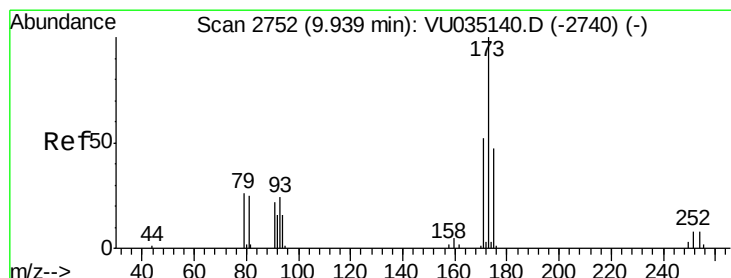
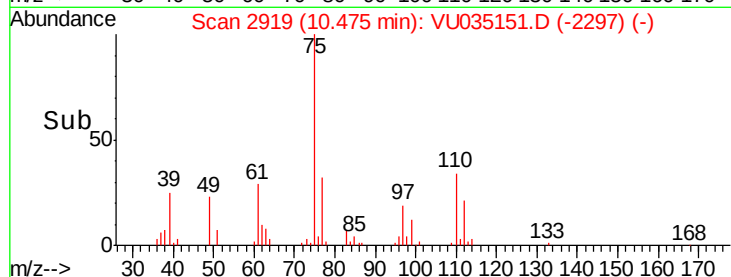
10000

5000

0

Time-->

10.40 10.50 10.60



#61

Bromoform

Concen: 5.308 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

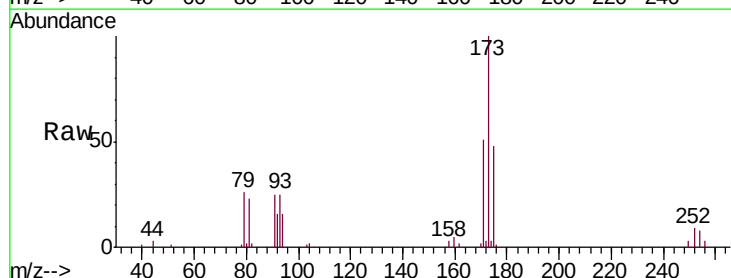
Tgt Ion: 173 Resp: 30986

Ion Ratio Lower Upper

173 100

175 48.9 37.2 55.8

254 7.8 6.6 9.8



Abundance Ion 172.90 (172.60 to 173.60): VU035140.D (-2740) (-)

Ion 174.90 (174.60 to 175.60): VU035140.D (-2740) (-)

Ion 253.75 (253.45 to 254.45): VU035140.D (-2740) (-)

9.94

20000

15000

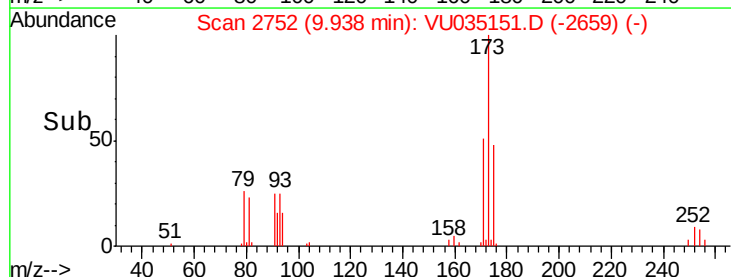
10000

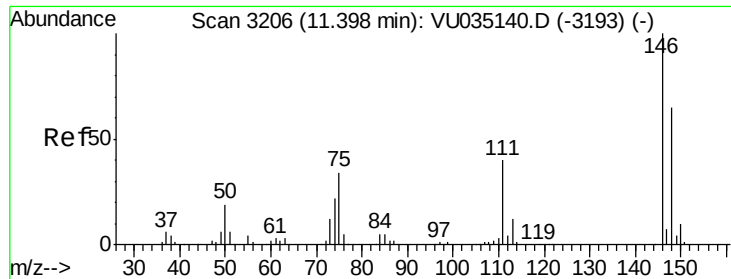
5000

0

Time-->

9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 4.683 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

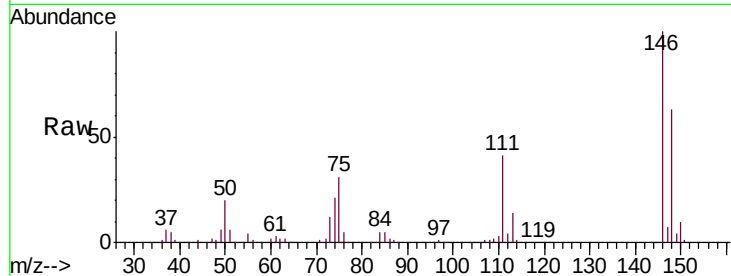
Tgt Ion:146 Resp: 122797

Ion Ratio Lower Upper

146 100

111 40.6 28.6 53.2

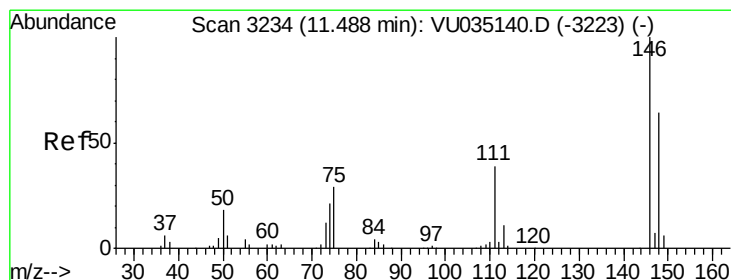
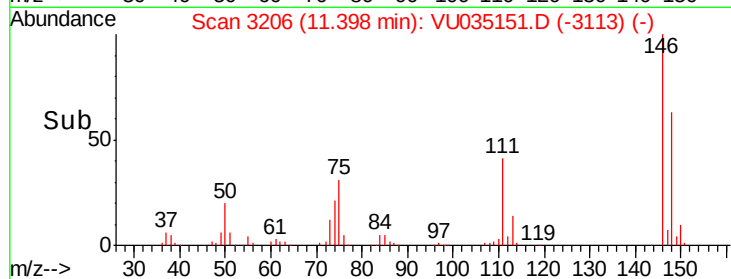
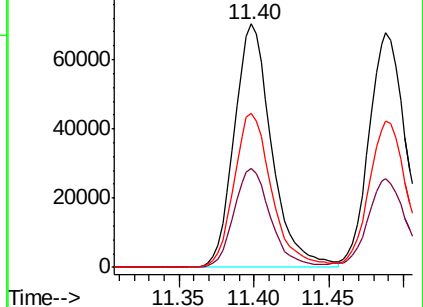
148 63.5 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.598 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

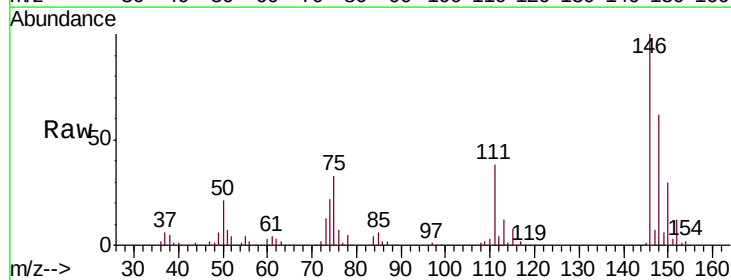
Tgt Ion:146 Resp: 121672

Ion Ratio Lower Upper

146 100

111 37.8 27.9 51.7

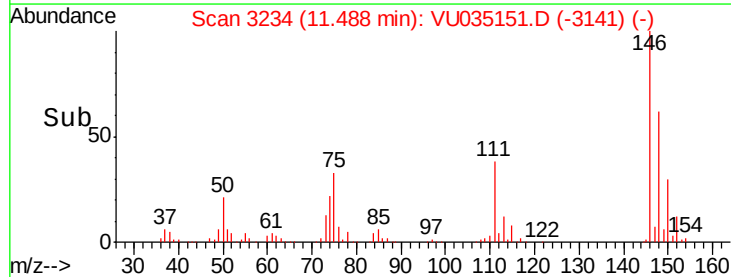
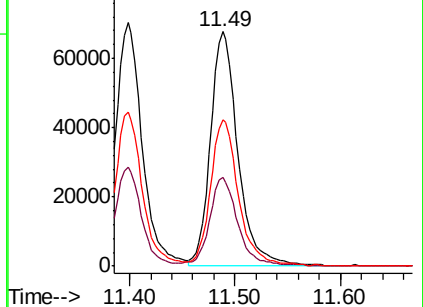
148 62.4 44.1 81.9

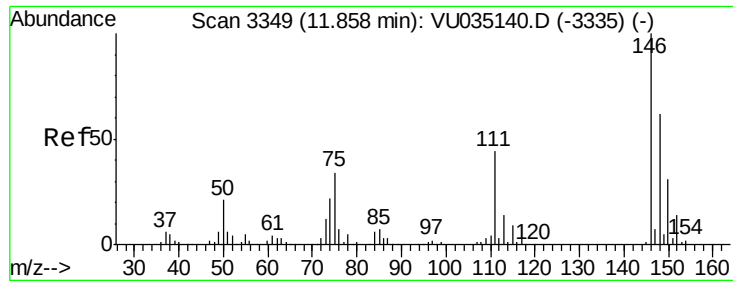


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

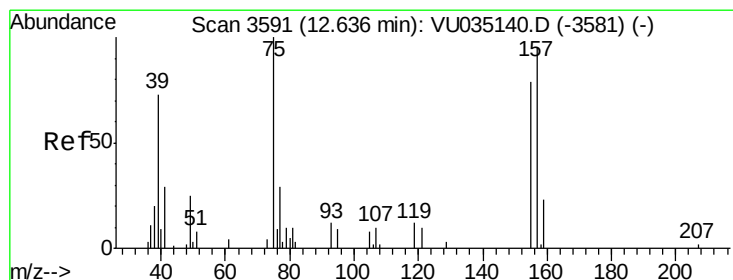
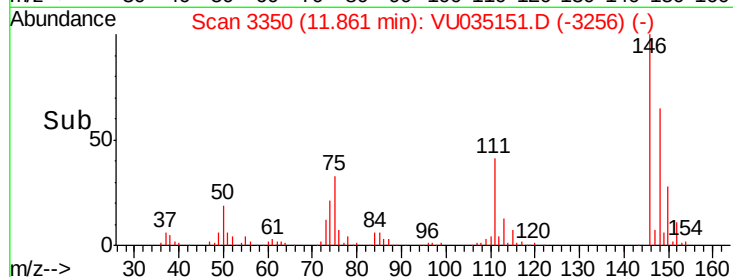
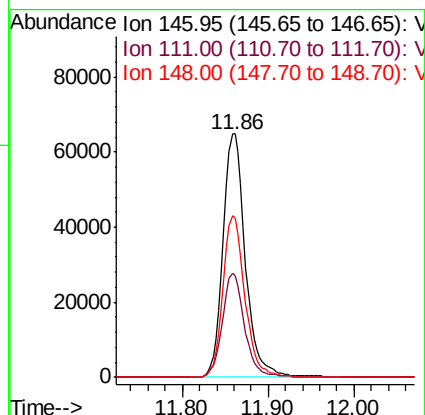
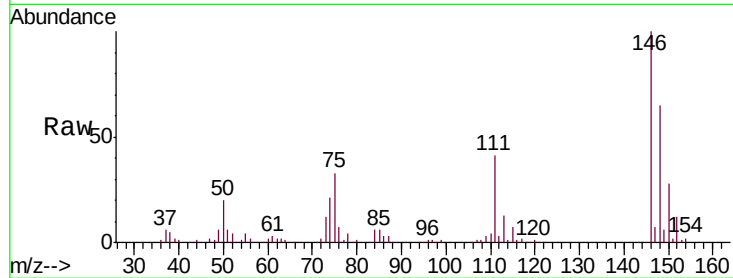




#65
 1,2-Dichlorobenzene
 Concen: 4.662 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

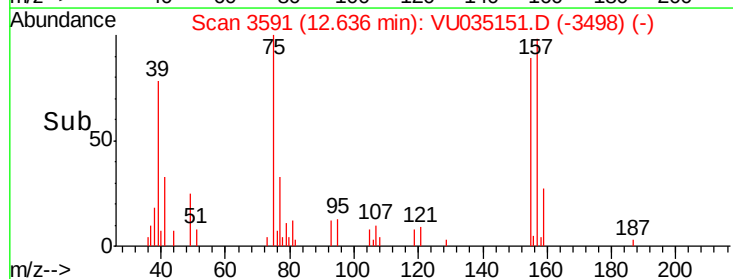
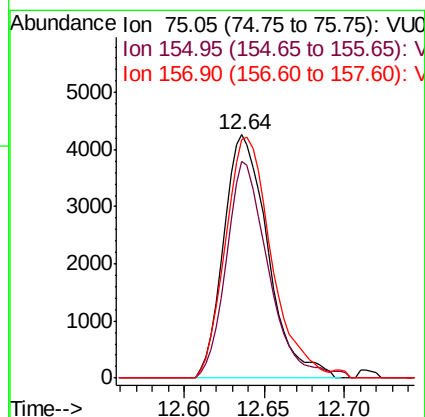
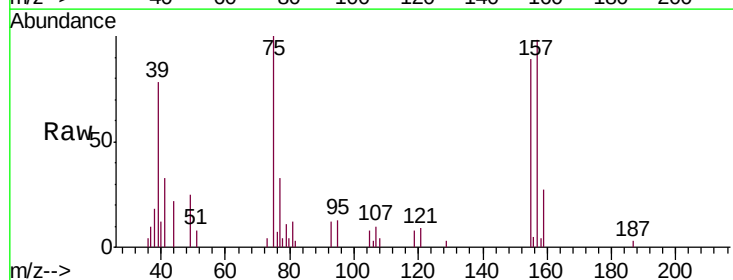
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

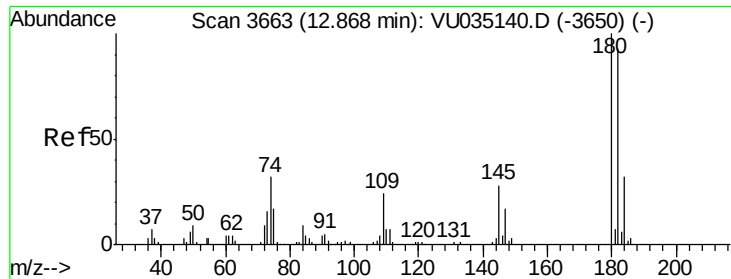
Tgt Ion: 146 Resp: 117955
 Ion Ratio Lower Upper
 146 100
 111 41.5 34.2 51.4
 148 65.1 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.005 ug/L
 RT: 12.64 min Scan# 3591
 Delta R.T. -0.00 min
 Lab File: VU035151.D
 Acq: 14 Oct 2019 15:34

Tgt Ion: 75 Resp: 8047
 Ion Ratio Lower Upper
 75 100
 155 88.8 67.1 100.7
 157 97.8 83.7 125.5





#67

1,3,5-Trichlorobenzene

Concen: 4.227 ug/L

RT: 12.86 min Scan# 3662

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

Tgt Ion:180 Resp: 75047

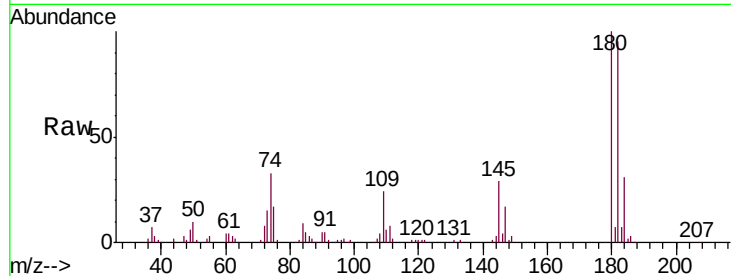
Ion Ratio Lower Upper

180 100

182 95.9 76.0 114.0

184 30.2 24.2 36.2

145 28.5 24.6 37.0

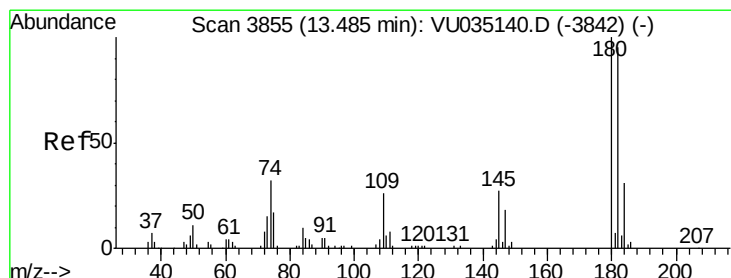
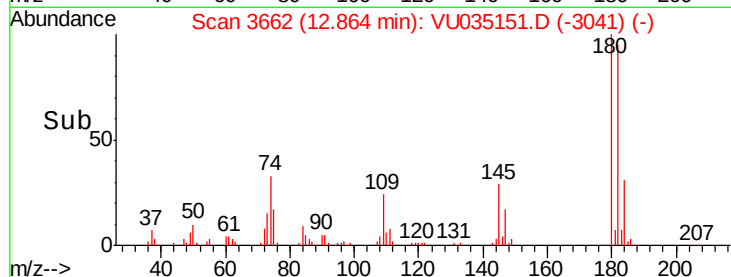
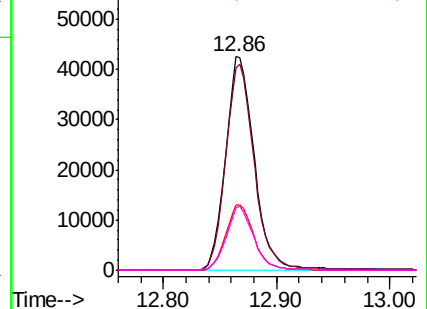


Abundance Ion 180.00 (179.70 to 180.70): V

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: 3.813 ug/L

RT: 13.48 min Scan# 3855

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

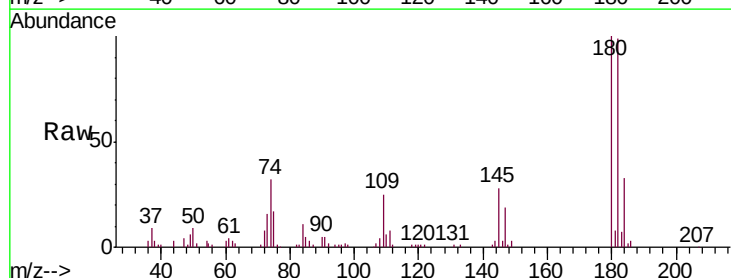
Tgt Ion:180 Resp: 50564

Ion Ratio Lower Upper

180 100

182 97.2 77.3 115.9

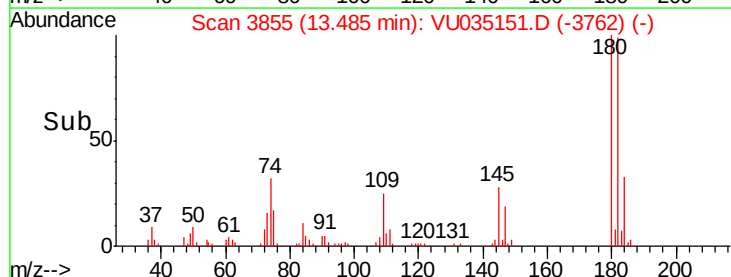
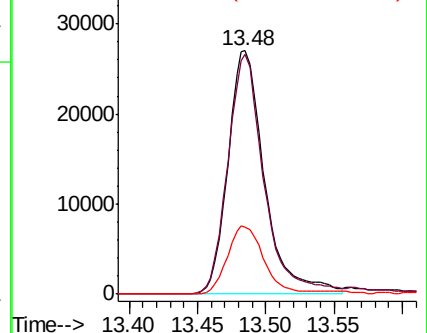
145 27.9 24.5 36.7

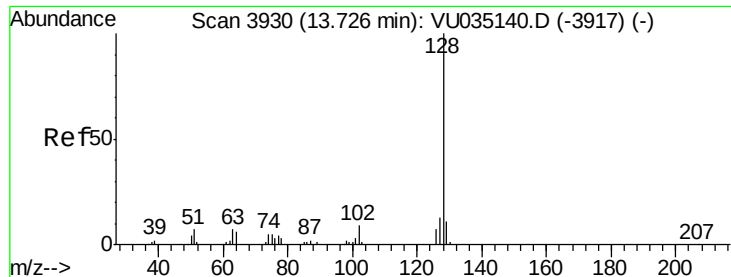


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.362 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

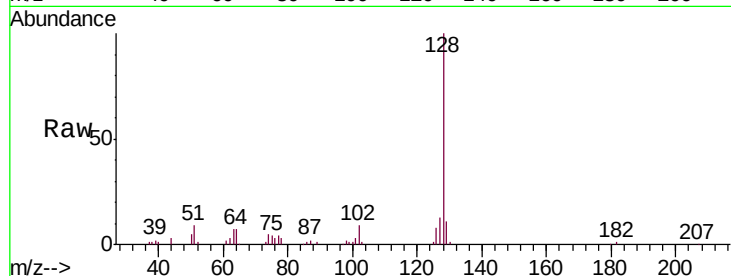
Tgt Ion:128 Resp: 69321

Ion Ratio Lower Upper

128 100

129 10.2 8.7 13.1

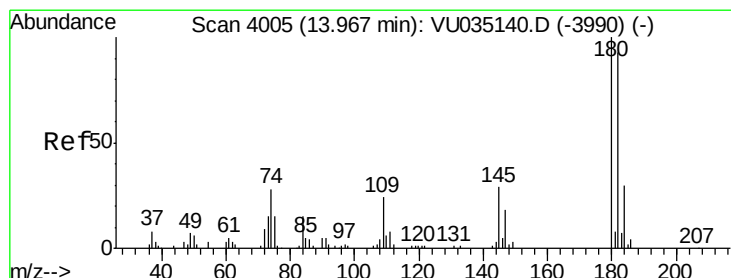
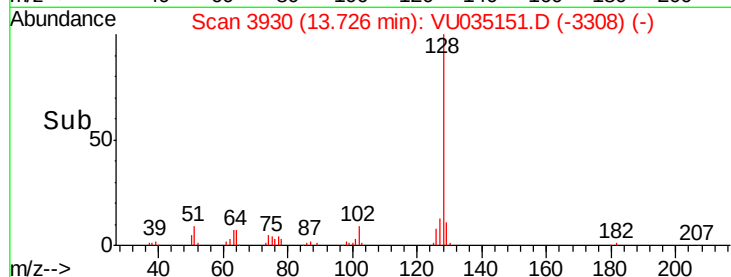
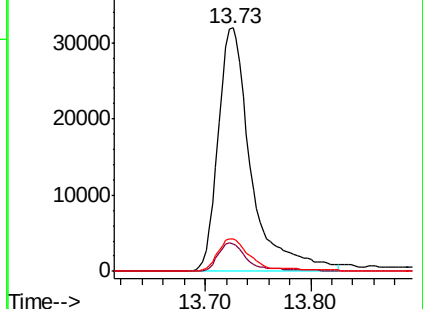
127 12.6 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.073 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU035151.D

Acq: 14 Oct 2019 15:34

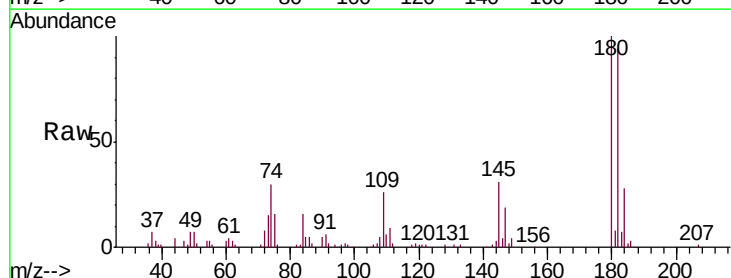
Tgt Ion:180 Resp: 52521

Ion Ratio Lower Upper

180 100

182 95.9 77.0 115.4

145 31.1 25.9 38.9



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

