

Data File : VU030358.D
Acq On : 24 Mar 2019 09:47
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

Quant Time: Mar 25 03:21:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	454566	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	444016	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	205812	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	150958	41.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.54%
7) Chloroethane-d5	1.67	69	128450	44.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.60%
11) 1,1-Dichloroethene-d2	2.27	63	312962	45.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.20%
21) 2-Butanone-d5	4.17	46	319271	92.84	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.84%
24) Chloroform-d	4.64	84	300907	47.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.48%
26) 1,2-Dichloroethane-d4	5.31	65	189581	45.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.92%
32) Benzene-d6	5.34	84	594913	46.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.44%
36) 1,2-Dichloropropane-d6	6.33	67	210737	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.74%
41) Toluene-d8	7.56	98	538577	47.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.20%
43) trans-1,3-Dichloropropene-	7.85	79	97218	47.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.92%
47) 2-Hexanone-d5	8.31	63	216812	91.84	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.84%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	290845	46.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.30%
64) 1,2-Dichlorobenzene-d4	11.86	152	193318	46.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.76%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	241926	48.237	ug/L	98
3) Chloromethane	1.33	50	275360	49.090	ug/L	99
5) Vinyl chloride	1.40	62	258834	48.661	ug/L	99
6) Bromomethane	1.62	94	127702	52.334	ug/L	98
8) Chloroethane	1.69	64	149751	49.869	ug/L	98
9) Trichlorofluoromethane	1.88	101	286845	49.452	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	170791	51.480	ug/L	99
12) 1,1-Dichloroethene	2.28	96	160220	49.264	ug/L	99
13) Acetone	2.32	43	398489	114.580	ug/L	99
14) Carbon disulfide	2.48	76	510983	47.518	ug/L	100
15) Methyl Acetate	2.61	43	248291	46.625	ug/L #	100
16) Methylene chloride	2.70	84	188765	49.234	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	164144	48.107	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	556206	49.293	ug/L	99
19) 1,1-Dichloroethane	3.44	63	343921	49.130	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	185234	48.407	ug/L	99
22) 2-Butanone	4.26	43	446554	106.229	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	88389	49.696	ug/L	95
25) Chloroform	4.67	83	324033	48.685	ug/L	97
27) 1,2-Dichloroethane	5.40	62	257767	49.355	ug/L	99
29) Cyclohexane	4.99	56	337292	50.197	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	265551	48.844	ug/L	99
31) Carbon tetrachloride	5.13	117	224785	48.779	ug/L	100
33) Benzene	5.39	78	747258	49.439	ug/L	100
34) Trichloroethene	6.18	95	179804	48.391	ug/L	98
35) Methylcyclohexane	6.41	83	309024	50.540	ug/L	98
37) 1,2-Dichloropropane	6.43	63	203649	47.477	ug/L	99
38) Bromodichloromethane	6.75	83	242097	47.501	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	305252	49.511	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	646601	89.744	ug/L	100
42) Toluene	7.63	91	776838	49.523	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	268545	49.503	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	175195	48.339	ug/L	99
46) Tetrachloroethene	8.22	164	129050	49.725	ug/L	97
48) 2-Hexanone	8.36	43	555979	94.153	ug/L	98
49) Dibromochloromethane	8.47	129	185128	49.159	ug/L	99
50) 1,2-Dibromoethane	8.58	107	190253	48.913	ug/L	98
51) Chlorobenzene	9.12	112	453312	47.682	ug/L	98
52) Ethylbenzene	9.25	91	834251	49.094	ug/L	100
53) m,p-Xylene	9.37	106	304572	49.640	ug/L	96
54) o-xylene	9.77	106	298219	49.813	ug/L	99
55) Styrene	9.79	104	515678	50.004	ug/L	99
56) Isopropylbenzene	10.16	105	777310	49.035	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	313091	46.872	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	238868	45.751	ug/L	98
61) Bromoform	9.95	173	136375	49.838	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	326189	48.464	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	325586	46.989	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	332610	48.872	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	66507	43.888	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	245516	48.726	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	206858	47.249	ug/L	99
69) Naphthalene	13.74	128	658631	42.308	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	212672	46.003	ug/L	100

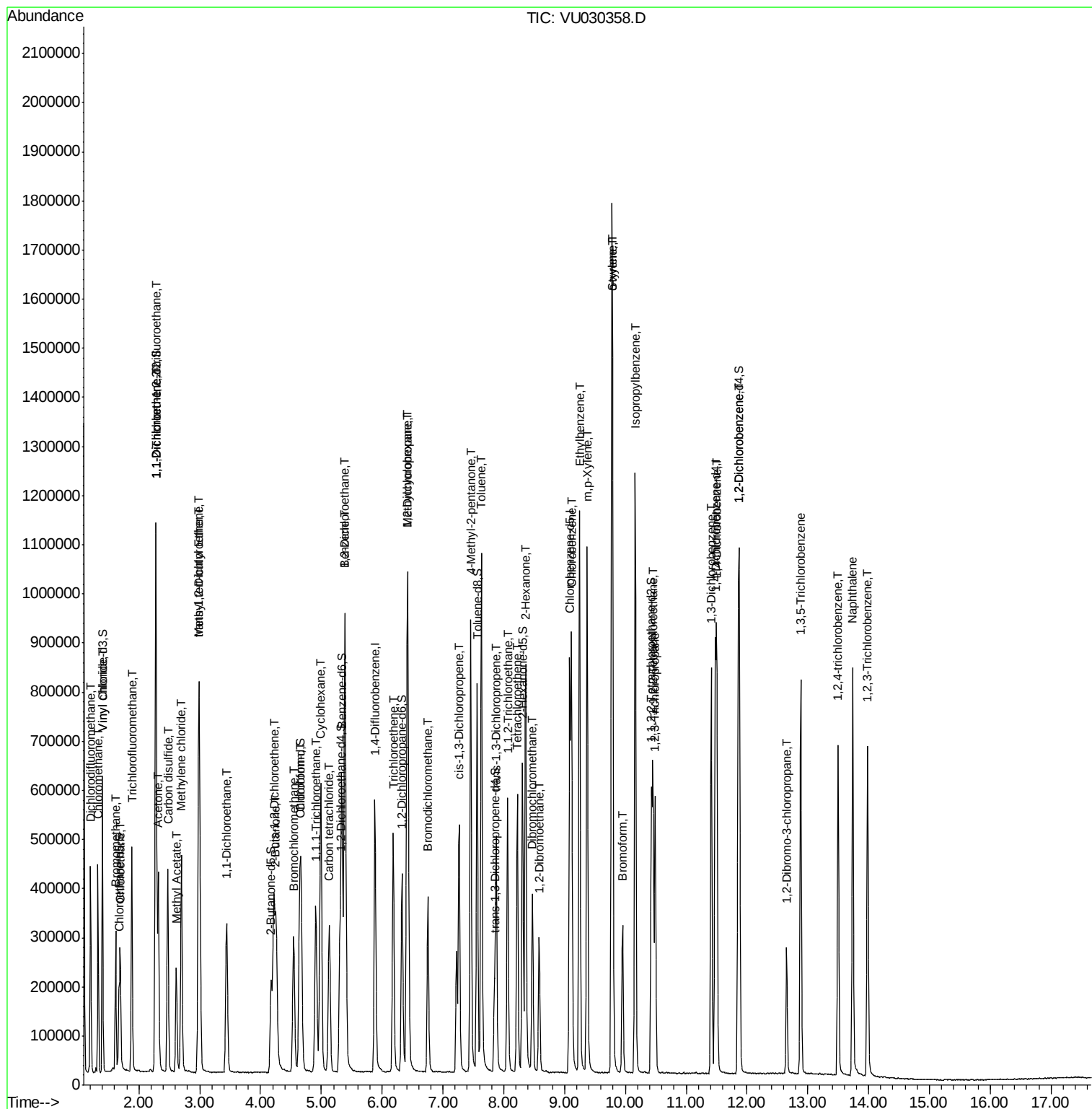
(#) = qualifier out of range (m) = manual integration (+) = signals summed

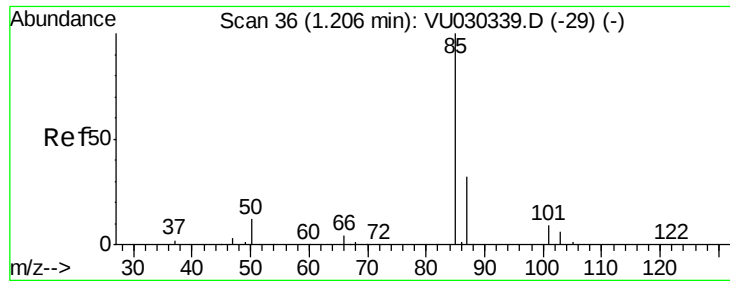
Data File : VU030358.D

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#2

Dichlorodifluoromethane

Concen: 48.237 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

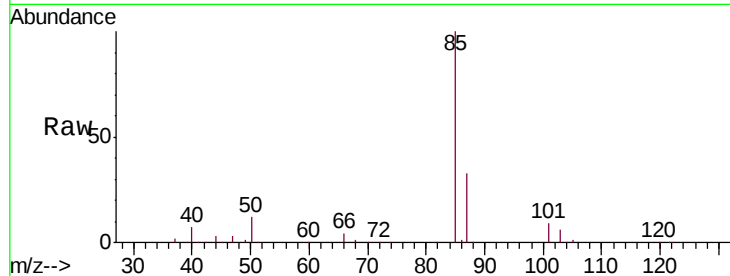
VSTD05057

Tgt Ion: 85 Resp: 241926

Ion Ratio Lower Upper

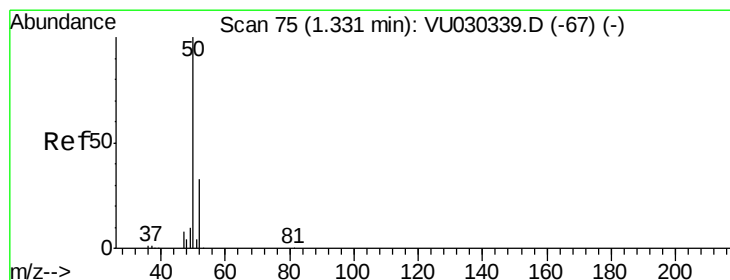
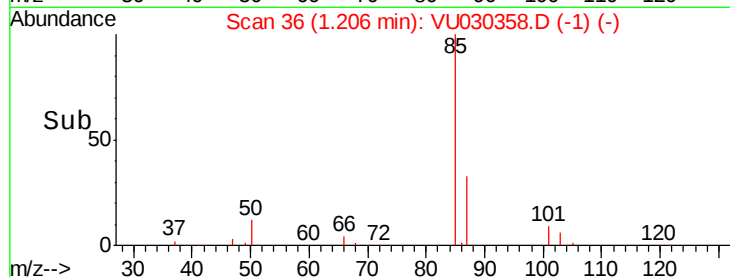
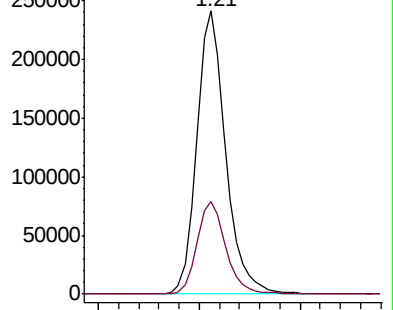
85 100

87 32.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030339.D (-29) (-)

Ion 87.00 (86.70 to 87.70): VU030339.D (-29) (-)



#3

Chloromethane

Concen: 49.090 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030358.D

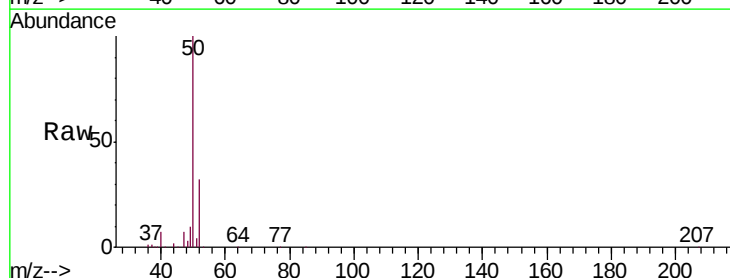
Acq: 24 Mar 2019 09:47

Tgt Ion: 50 Resp: 275360

Ion Ratio Lower Upper

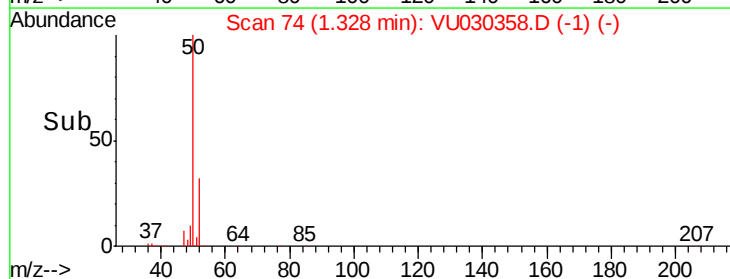
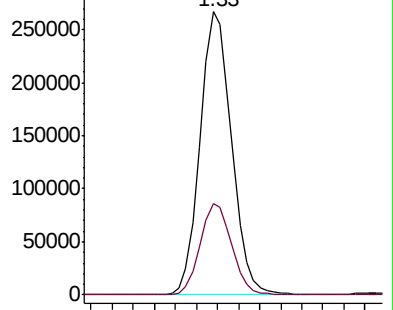
50 100

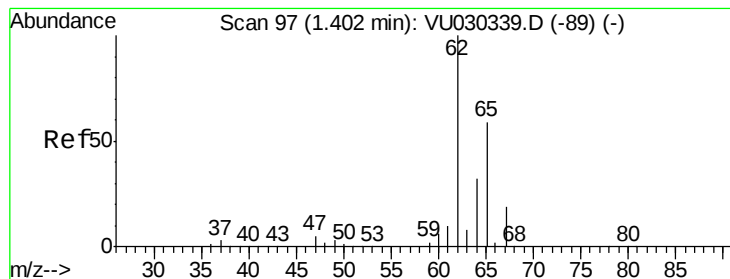
52 32.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030339.D (-67) (-)

Ion 52.00 (51.70 to 52.70): VU030339.D (-67) (-)





#5

Vinyl chloride

Concen: 48.661 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

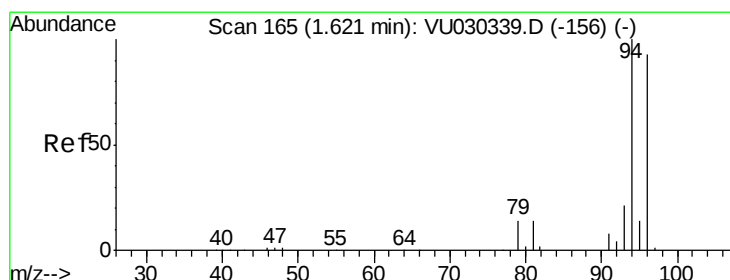
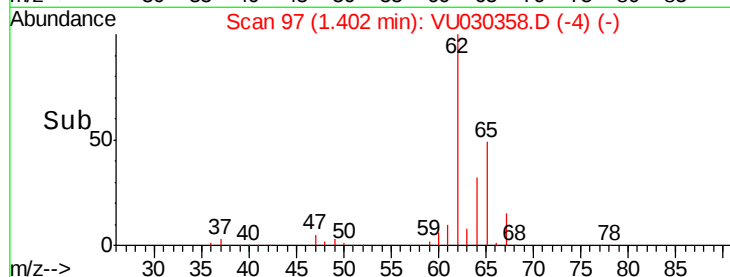
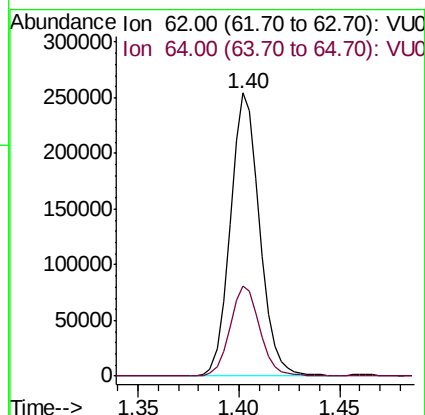
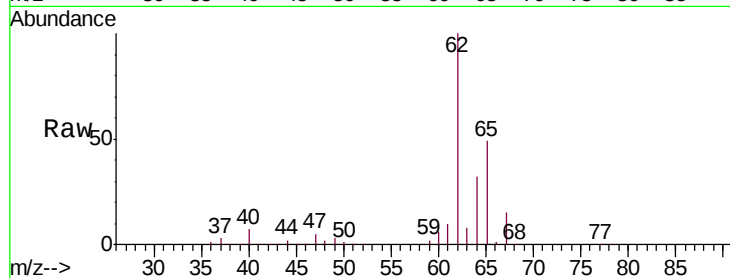
VSTD05057

Tgt Ion: 62 Resp: 258834

Ion Ratio Lower Upper

62 100

64 32.0 22.6 42.0



#6

Bromomethane

Concen: 52.334 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU030358.D

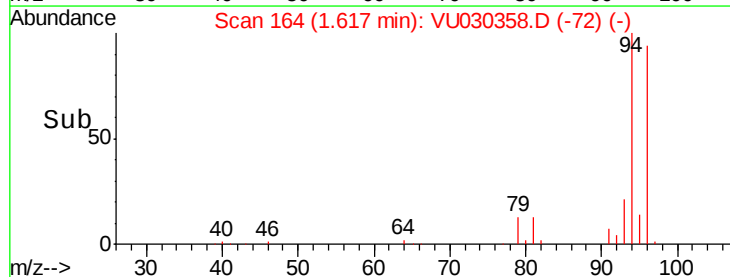
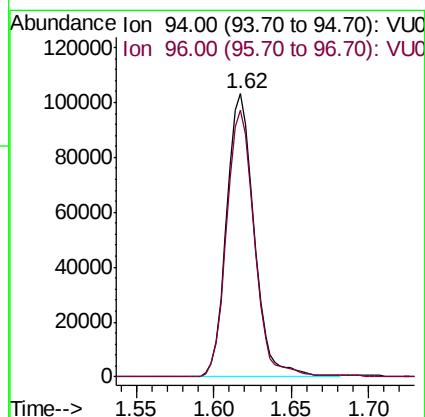
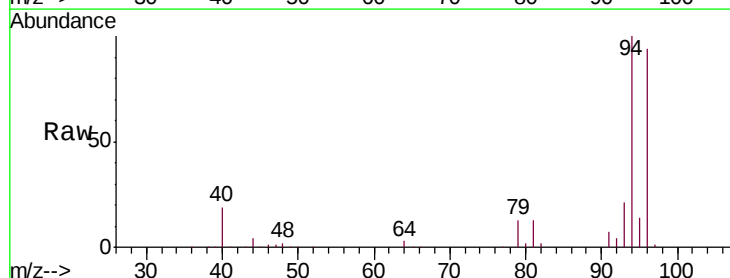
Acq: 24 Mar 2019 09:47

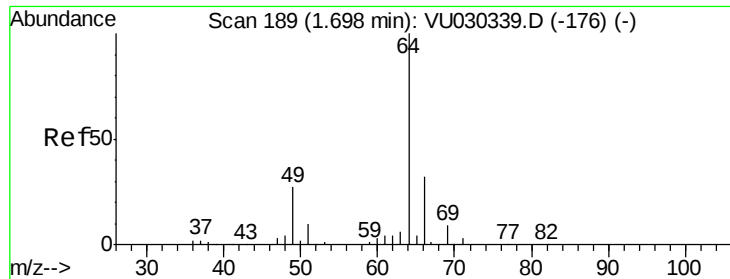
Tgt Ion: 94 Resp: 127702

Ion Ratio Lower Upper

94 100

96 94.4 64.8 120.3





#8

Chloroethane

Concen: 49.869 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

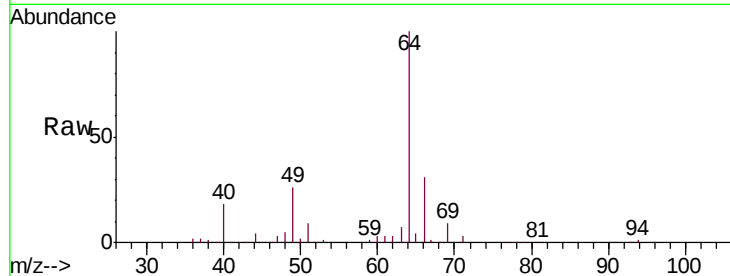
VSTD05057

Tgt Ion: 64 Resp: 149751

Ion Ratio Lower Upper

64 100

66 30.9 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU030339.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU030339.D (-176) (-)

1.69

120000

100000

80000

60000

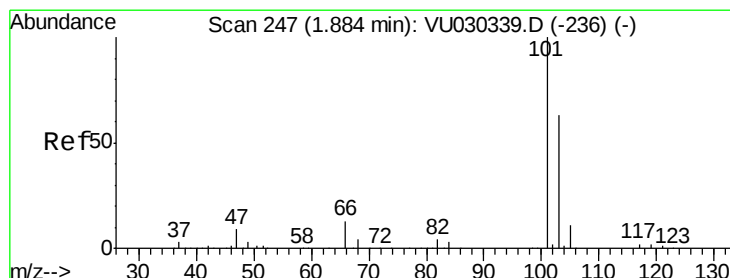
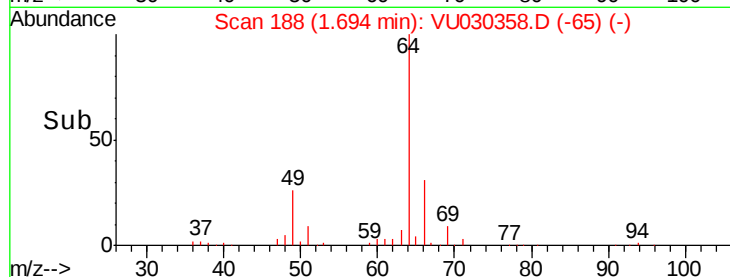
40000

20000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 49.452 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU030358.D

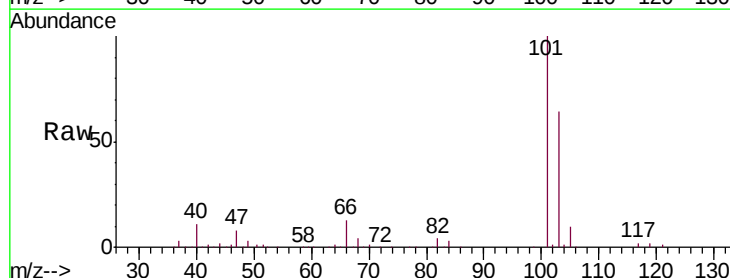
Acq: 24 Mar 2019 09:47

Tgt Ion: 101 Resp: 286845

Ion Ratio Lower Upper

101 100

103 64.5 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU030339.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030339.D (-236) (-)

1.88

200000

150000

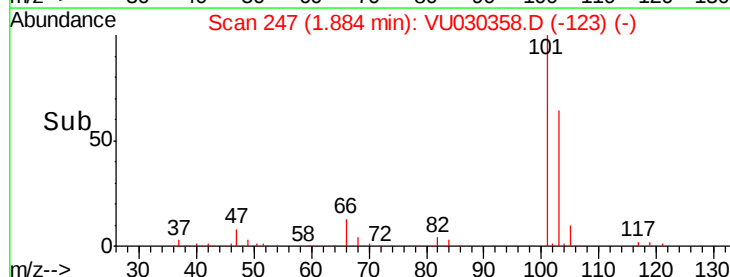
100000

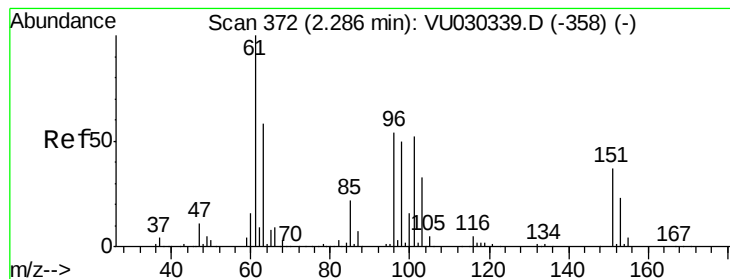
50000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 51.480 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

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ClientSampleId :

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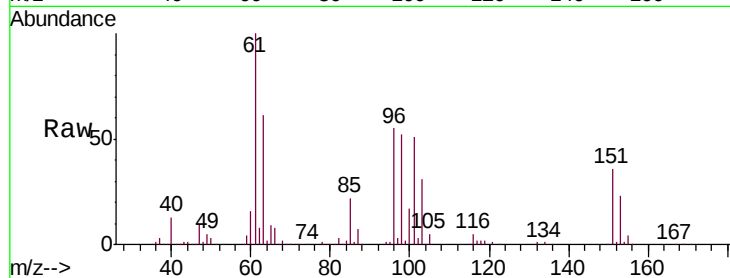
Tgt Ion: 101 Resp: 170791

Ion Ratio Lower Upper

101 100

85 43.2 34.8 52.2

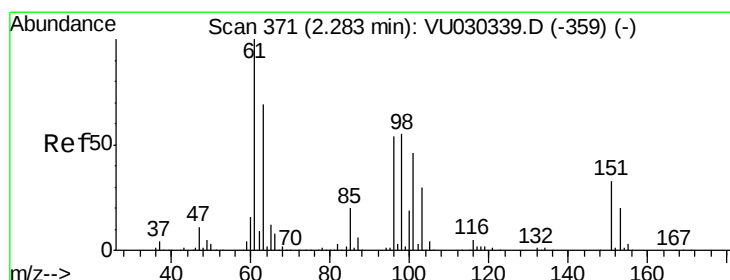
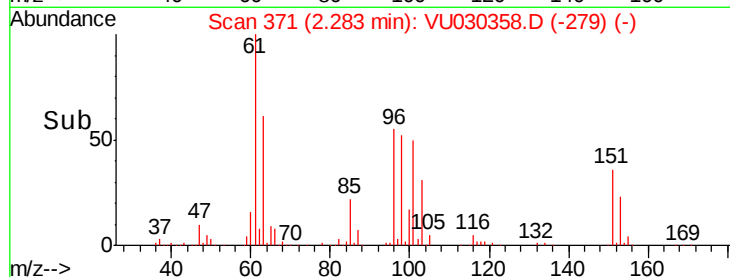
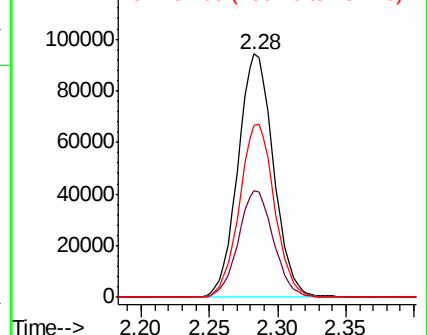
151 70.0 56.6 85.0



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: 49.264 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

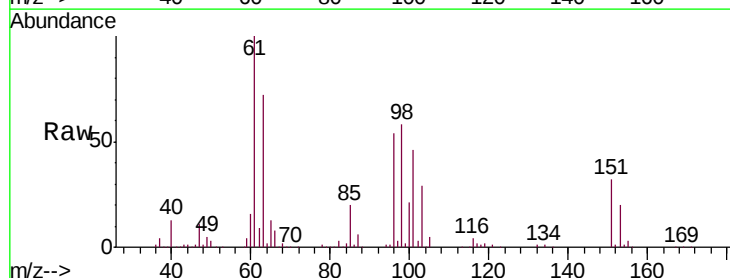
Tgt Ion: 96 Resp: 160220

Ion Ratio Lower Upper

96 100

61 186.0 131.0 243.4

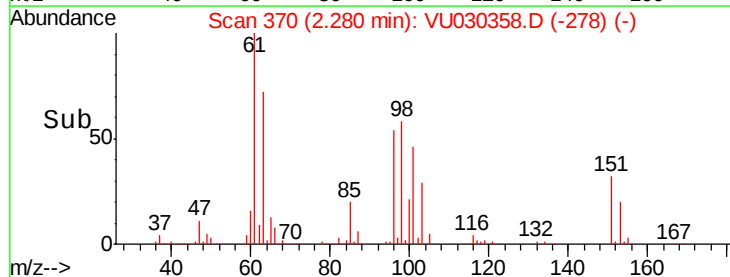
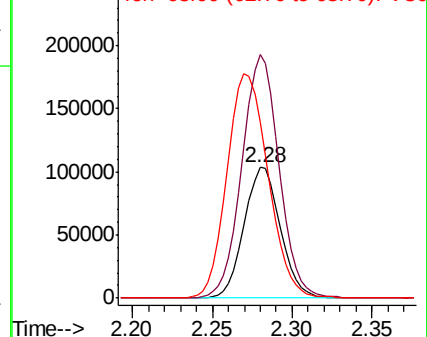
63 133.8 92.4 171.6

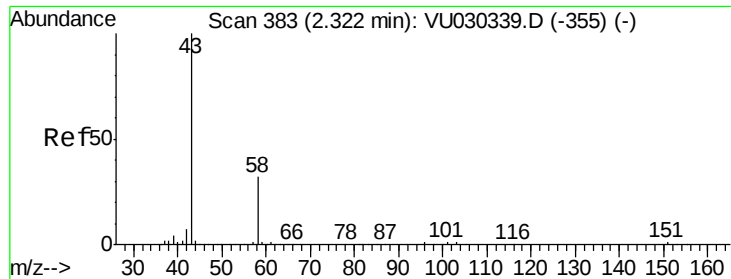


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 114.580 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

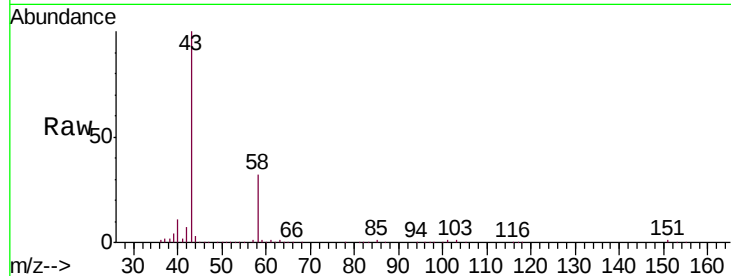
VSTD05057

Tgt Ion: 43 Resp: 398489

Ion Ratio Lower Upper

43 100

58 32.1 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030339.D (-355) (-)

Ion 58.00 (57.70 to 58.70): VU030339.D (-355) (-)

2.32

250000

200000

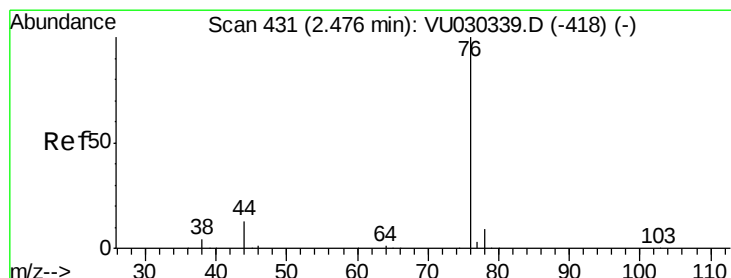
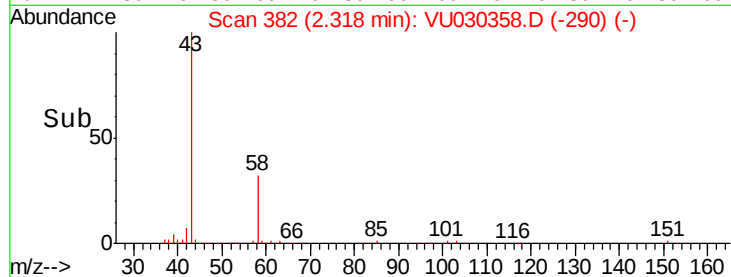
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 47.518 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030358.D

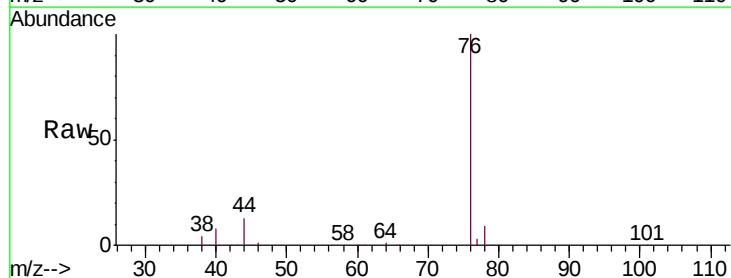
Acq: 24 Mar 2019 09:47

Tgt Ion: 76 Resp: 510983

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030339.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030339.D (-418) (-)

2.48

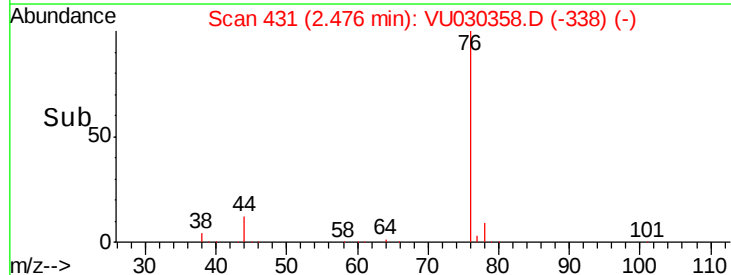
300000

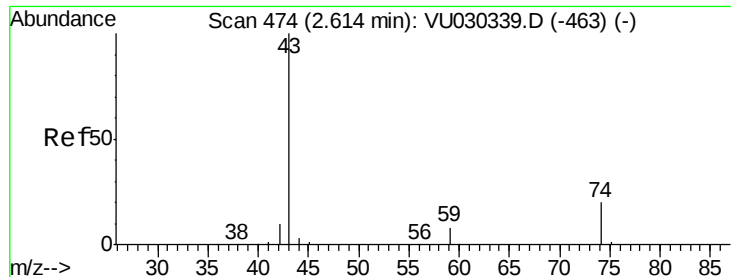
200000

100000

0

Time-->

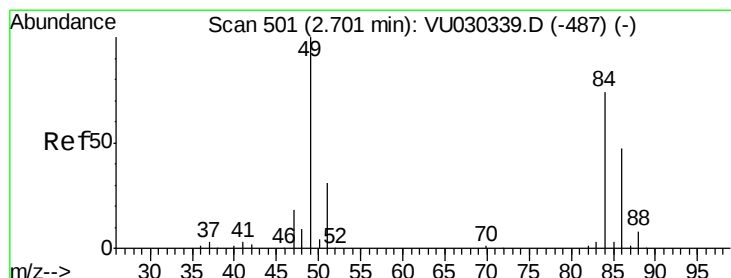
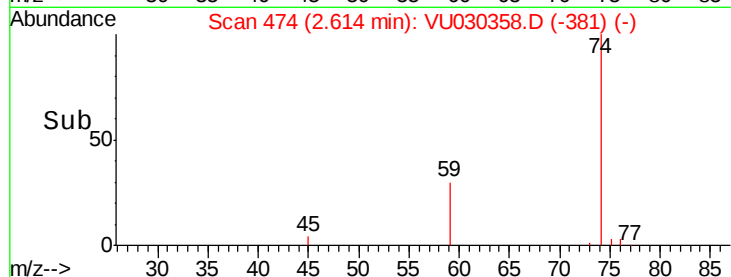
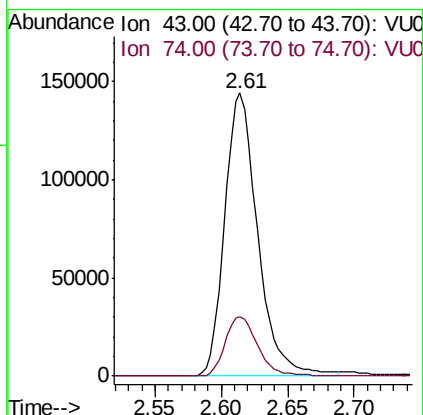
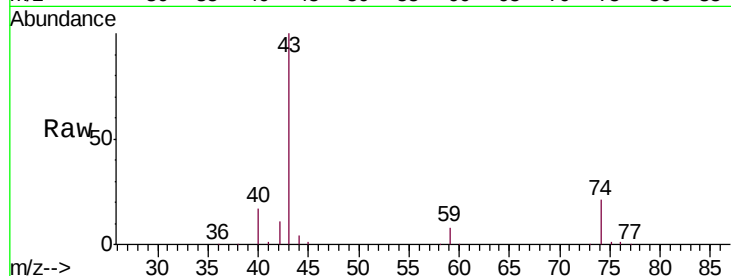




#15
Methyl Acetate
Concen: 46.625 ug/L
RT: 2.61 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

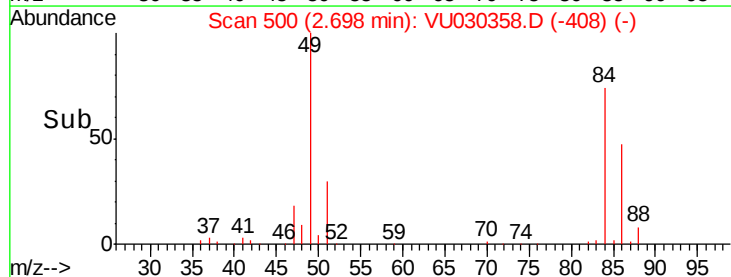
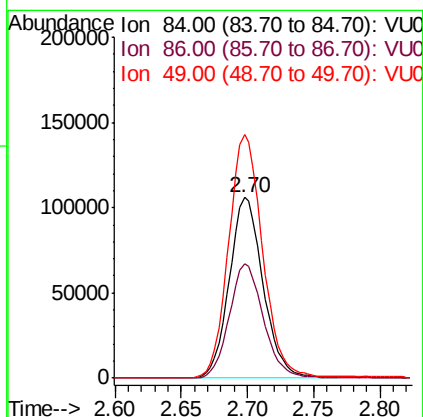
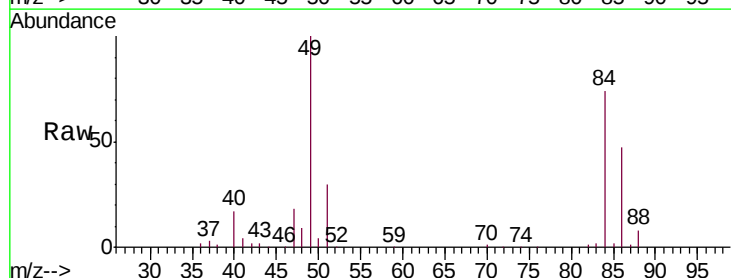
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

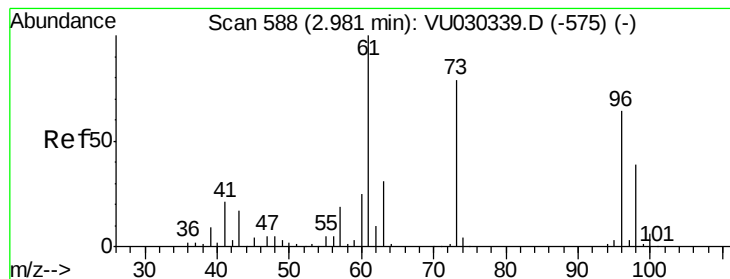
Tgt Ion: 43 Resp: 248291
Ion Ratio Lower Upper
43 100
74 20.7 0.0 0.0#



#16
Methylene chloride
Concen: 49.234 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

Tgt Ion: 84 Resp: 188765
Ion Ratio Lower Upper
84 100
86 63.5 44.3 82.3
49 134.9 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 48.107 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

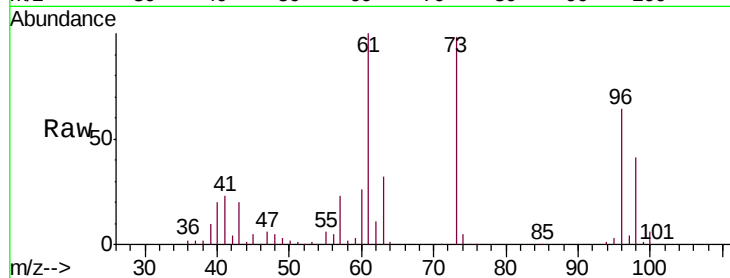
Tgt Ion: 96 Resp: 164144

Ion Ratio Lower Upper

96 100

61 156.5 108.6 201.8

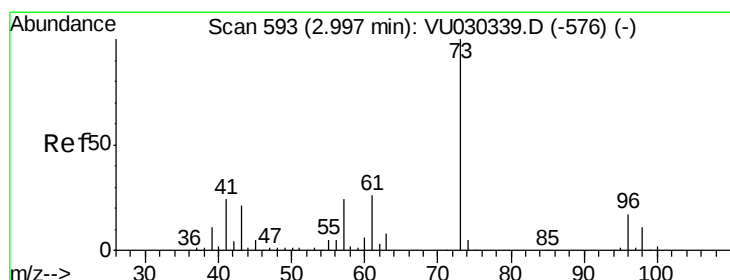
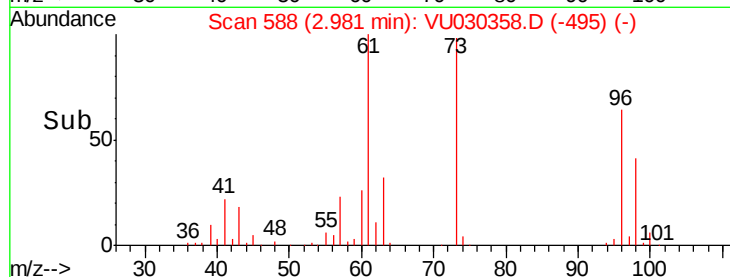
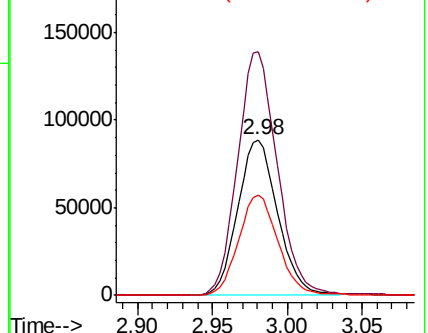
98 64.7 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030339.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VU030339.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VU030339.D (-575) (-)



#18

Methyl tert-butyl Ether

Concen: 49.293 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

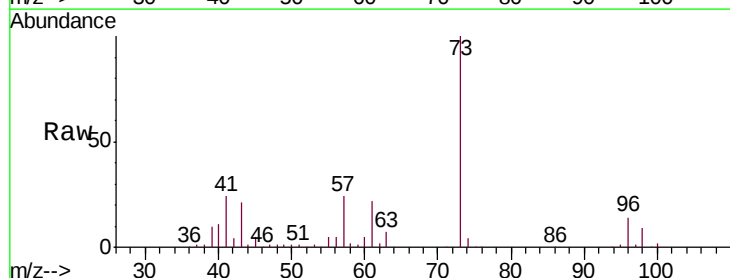
Tgt Ion: 73 Resp: 556206

Ion Ratio Lower Upper

73 100

43 20.3 16.6 24.8

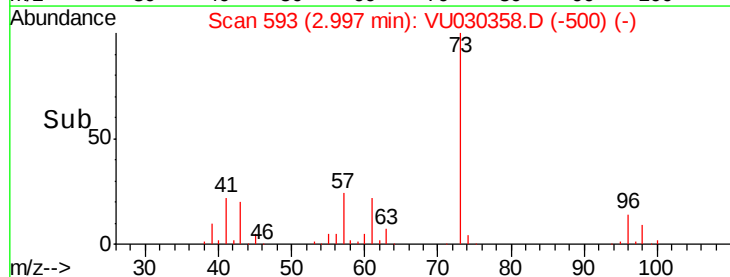
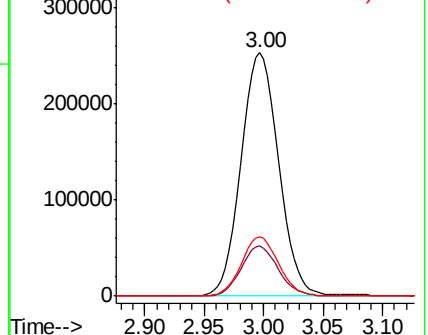
57 24.1 18.9 28.3

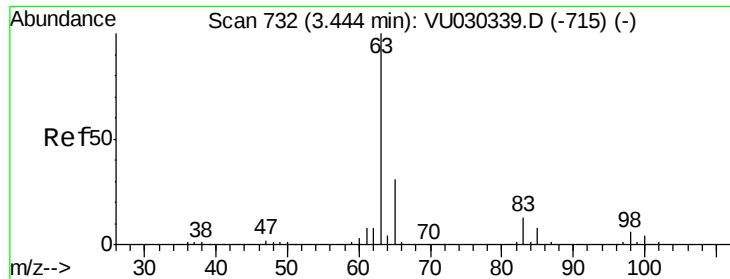


Abundance Ion 73.00 (72.70 to 73.70): VU030339.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030339.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030339.D (-576) (-)

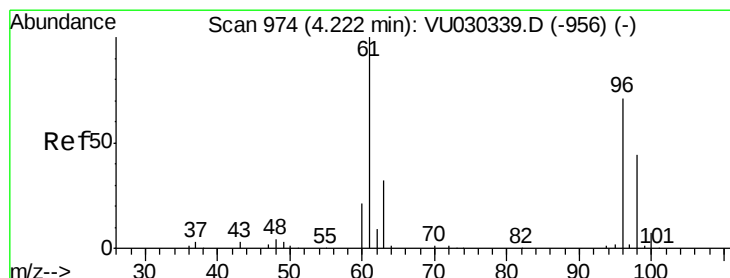
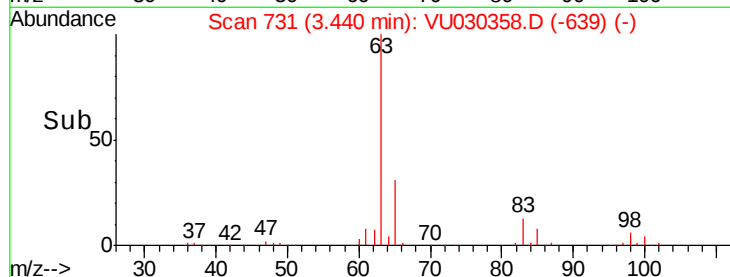
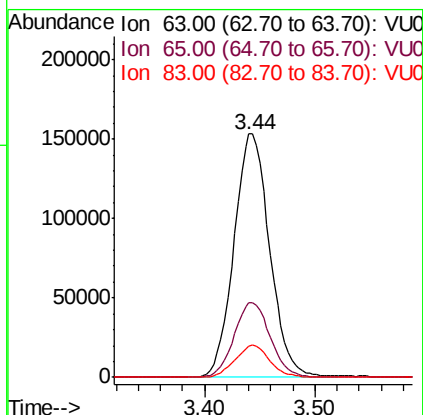
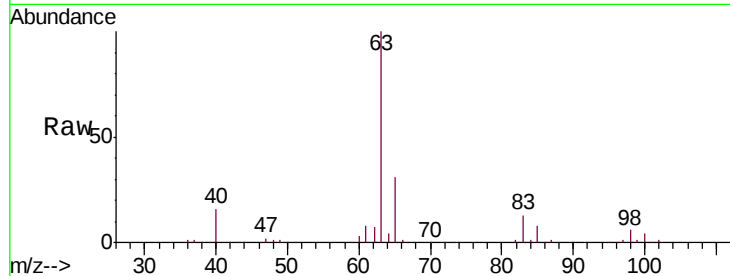




#19
 1,1-Dichloroethane
 Concen: 49.130 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

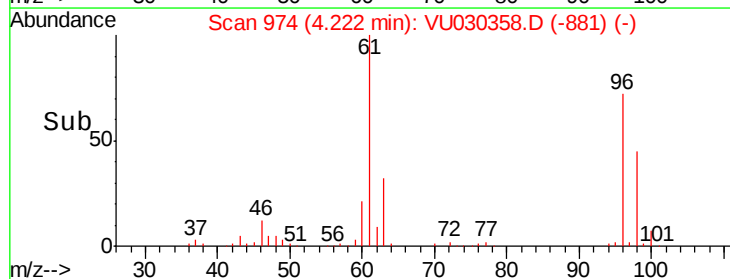
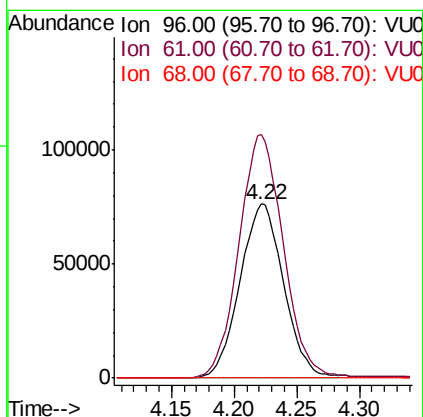
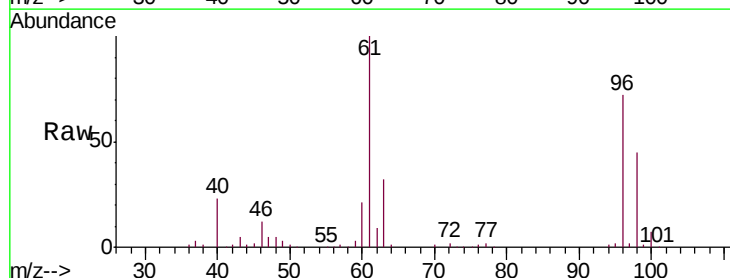
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

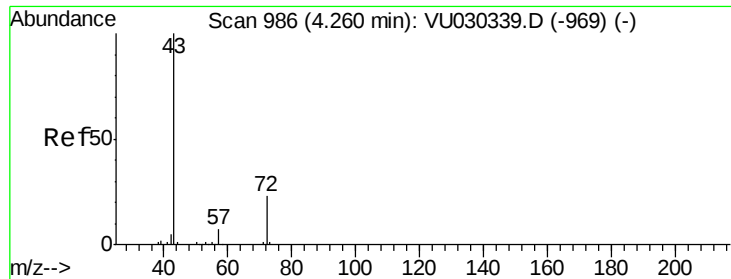
Tgt Ion: 63 Resp: 343921
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.0 40.8
 83 12.6 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 48.407 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

Tgt Ion: 96 Resp: 185234
 Ion Ratio Lower Upper
 96 100
 61 139.6 98.4 182.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 106.229 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

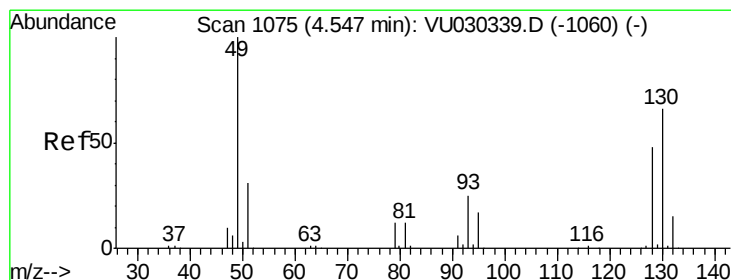
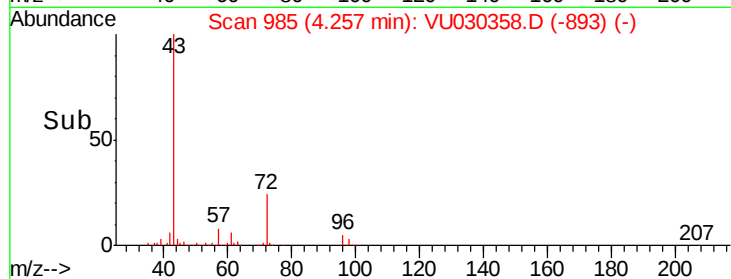
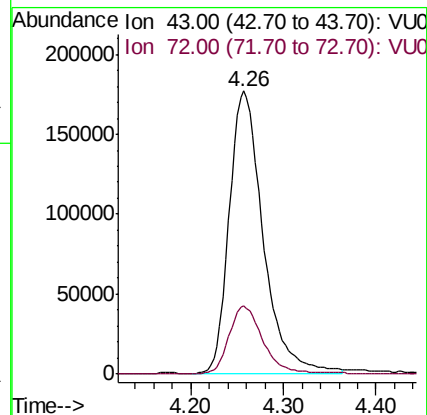
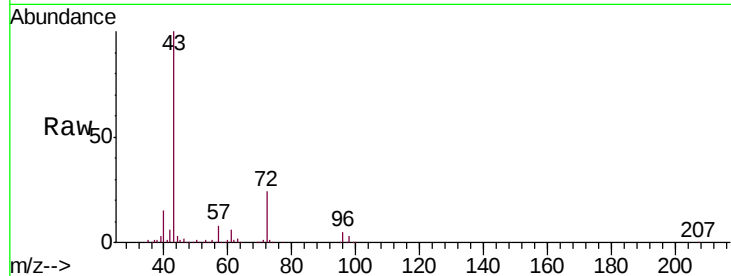
VSTD05057

Tgt Ion: 43 Resp: 446554

Ion Ratio Lower Upper

43 100

72 24.8 12.0 36.1



#23

Bromochloromethane

Concen: 49.696 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Tgt Ion: 128 Resp: 88389

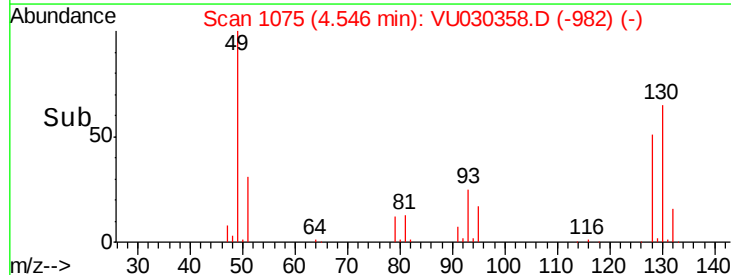
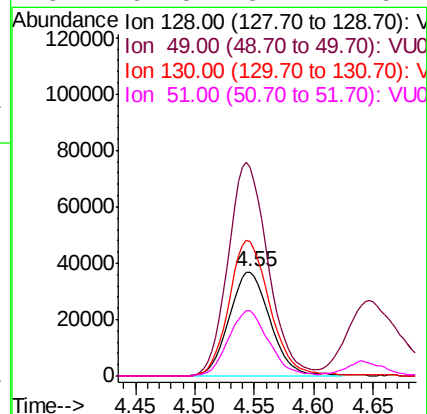
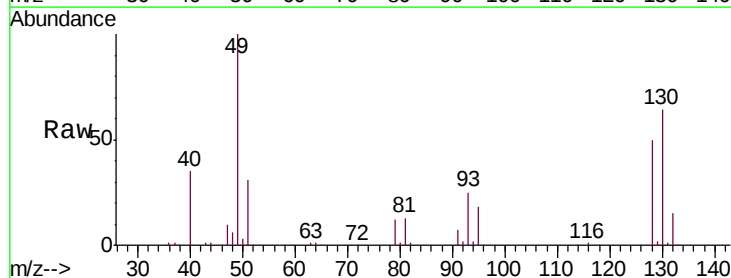
Ion Ratio Lower Upper

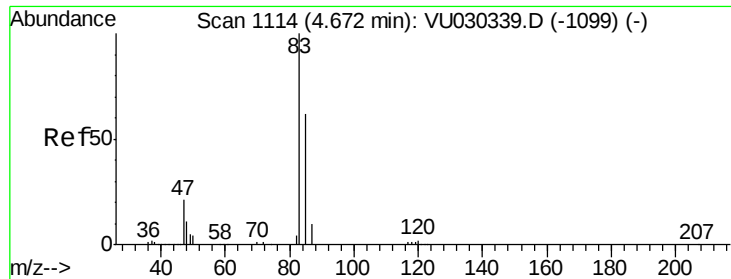
128 100

49 200.2 145.5 270.3

130 128.9 95.3 177.1

51 62.8 52.2 78.2

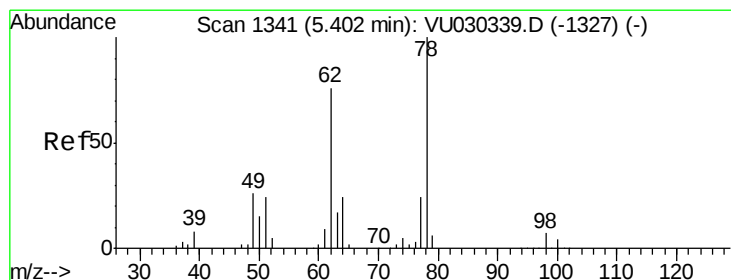
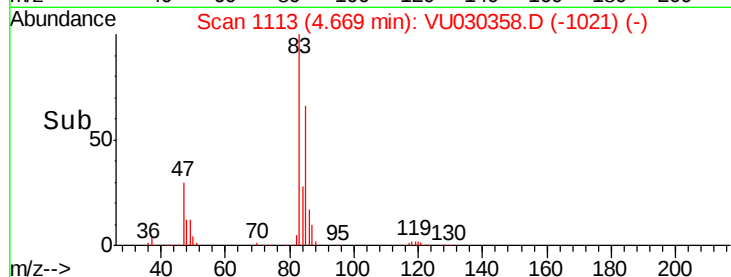
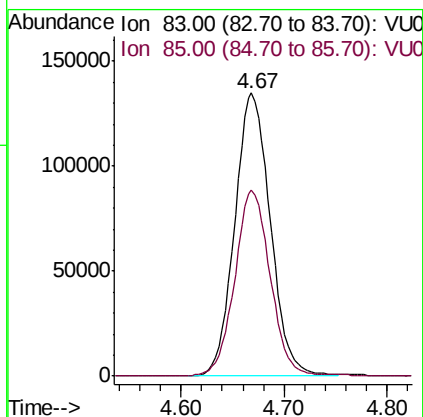
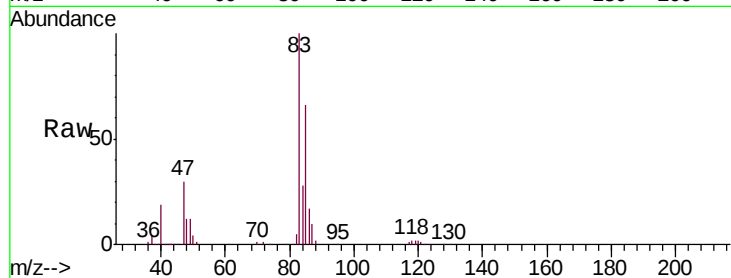




#25
Chloroform
Concen: 48.685 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

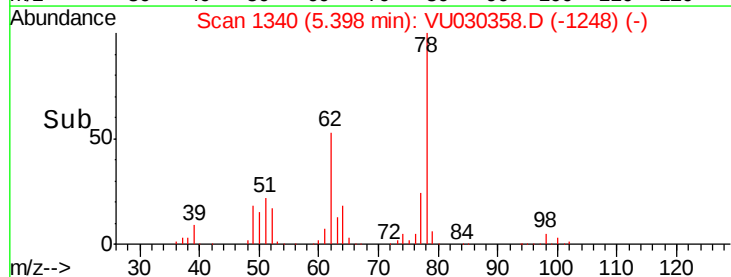
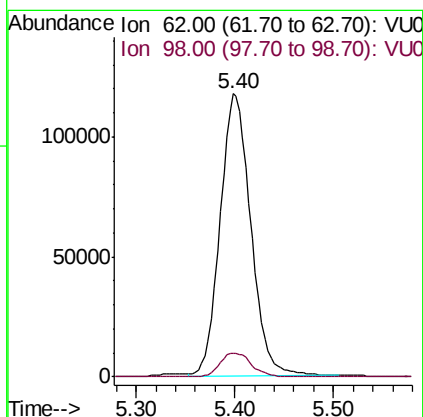
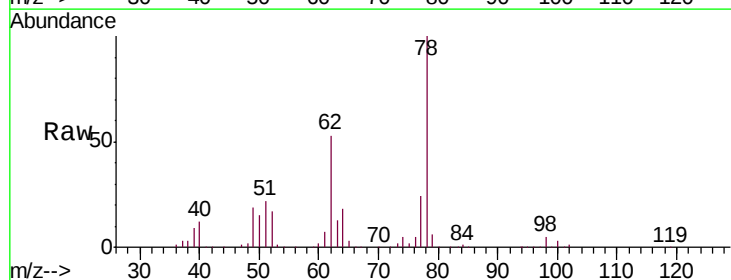
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

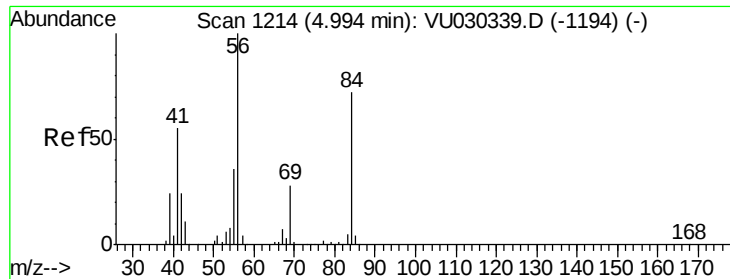
Tgt Ion: 83 Resp: 324033
Ion Ratio Lower Upper
83 100
85 65.7 44.4 82.4



#27
1,2-Dichloroethane
Concen: 49.355 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

Tgt Ion: 62 Resp: 257767
Ion Ratio Lower Upper
62 100
98 8.5 7.2 10.8

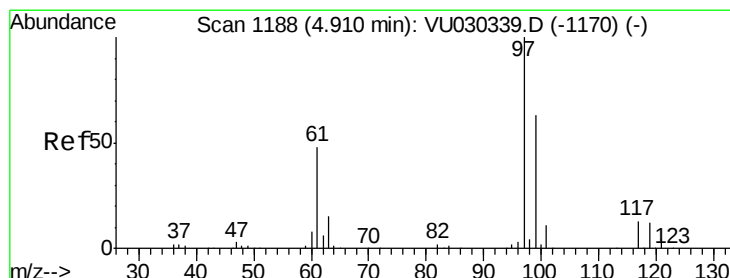
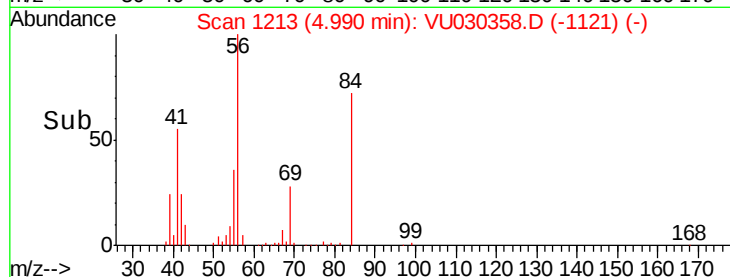
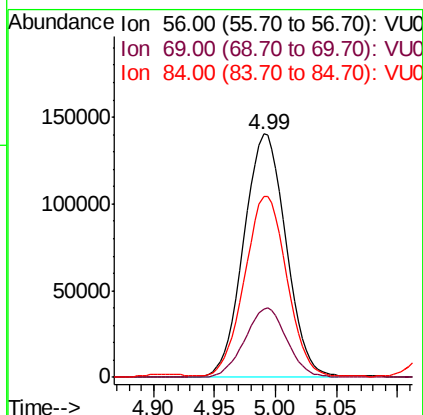
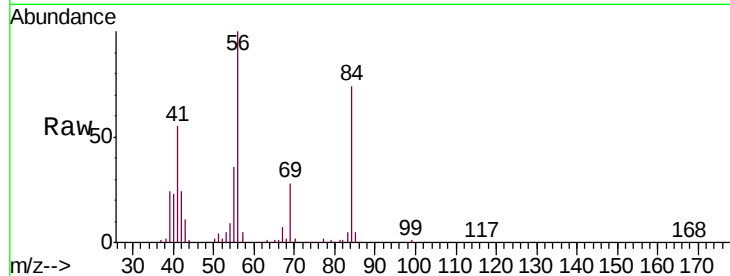




#29
Cyclohexane
Concen: 50.197 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

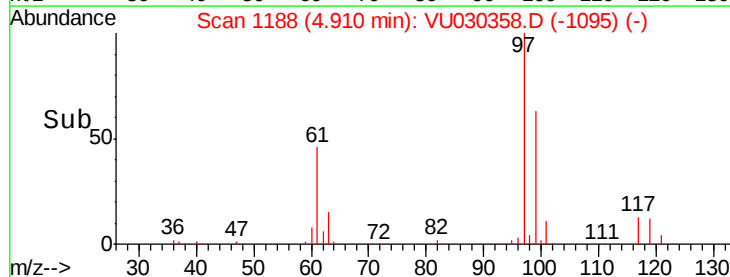
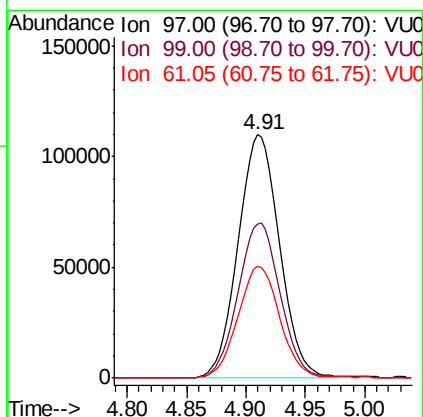
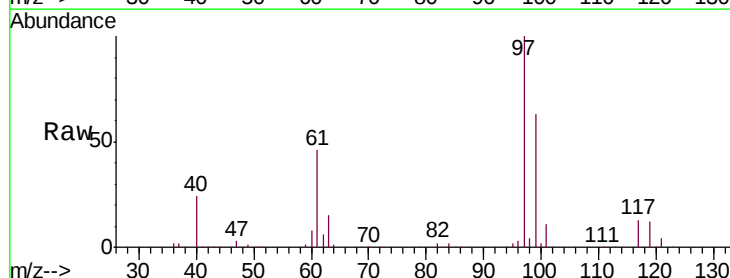
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

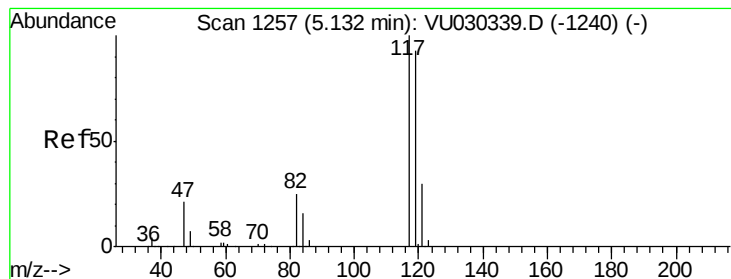
Tgt Ion: 56 Resp: 337292
Ion Ratio Lower Upper
56 100
69 28.3 22.9 34.3
84 73.4 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 48.844 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

Tgt Ion: 97 Resp: 265551
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.6
61 46.2 38.2 57.4





#31

Carbon tetrachloride

Concen: 48.779 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

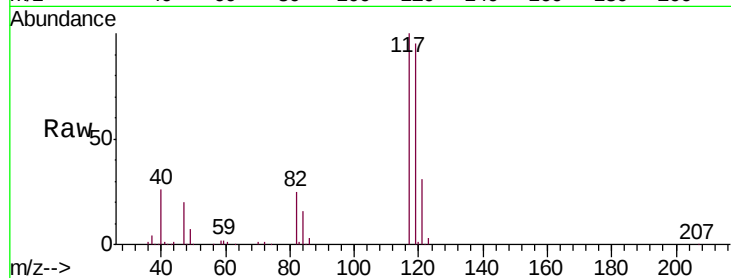
VSTD05057

Tgt Ion:117 Resp: 224785

Ion Ratio Lower Upper

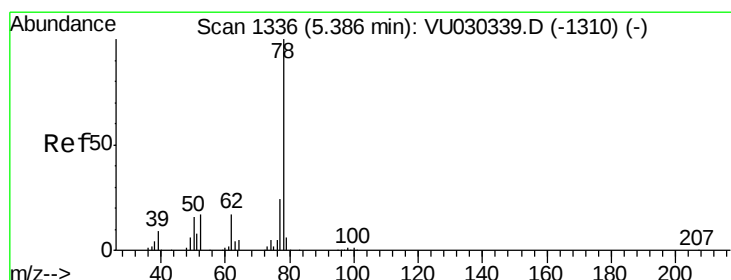
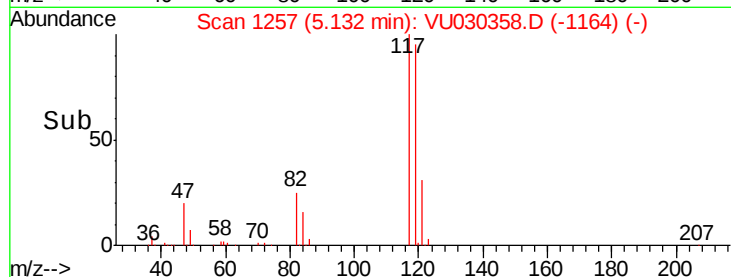
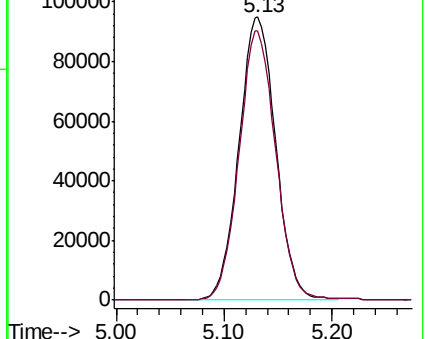
117 100

119 94.7 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.439 ug/L

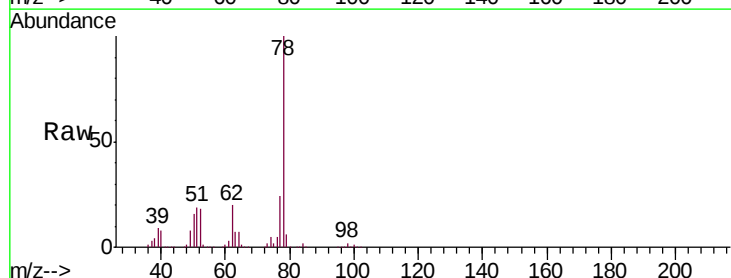
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

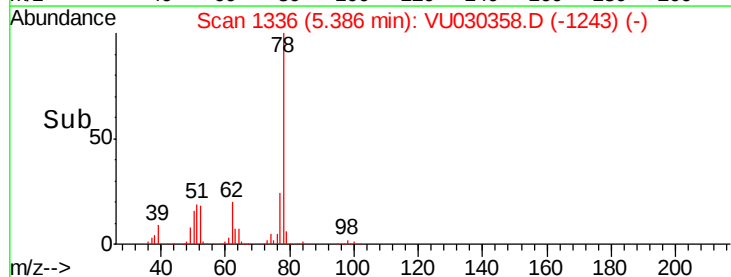
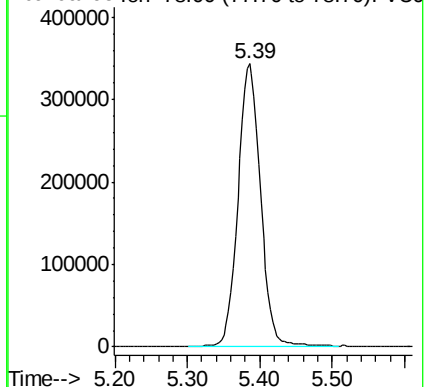
Lab File: VU030358.D

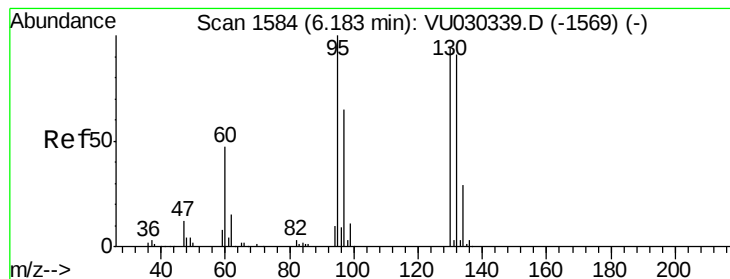
Acq: 24 Mar 2019 09:47

Tgt Ion: 78 Resp: 747258



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.391 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion: 95 Resp: 179804

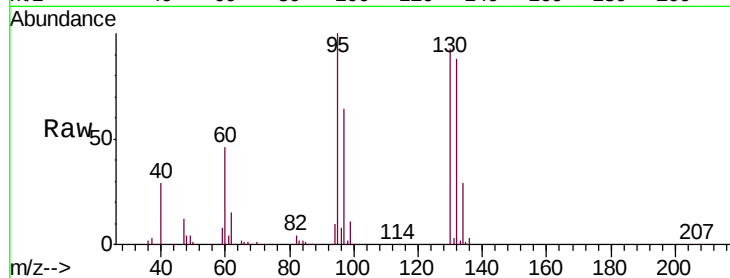
Ion Ratio Lower Upper

95 100

97 63.6 45.7 84.9

132 88.5 63.8 118.4

130 93.4 65.7 121.9

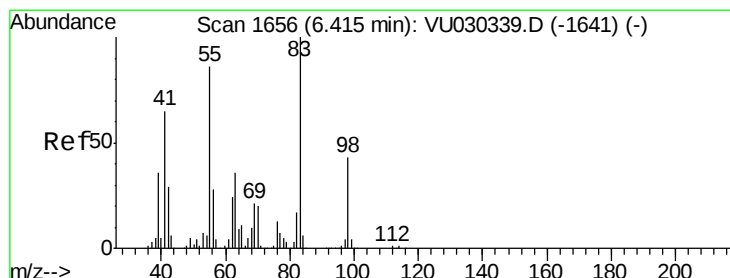
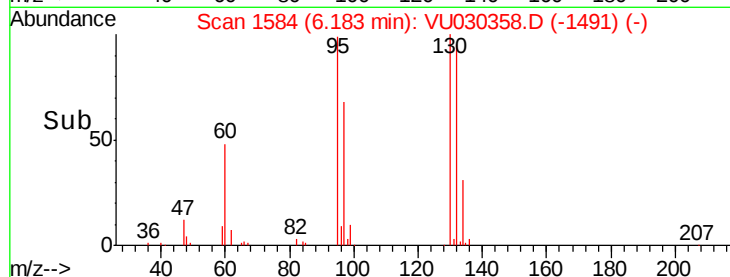
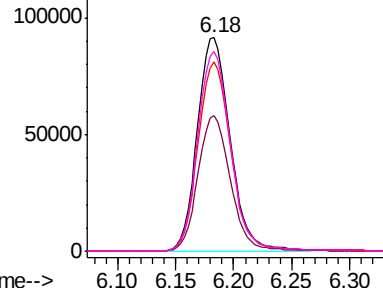


Abundance Ion 95.00 (94.70 to 95.70): VU030339.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU030339.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU030339.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU030339.D (-1569) (-)



#35

Methylcyclohexane

Concen: 50.540 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

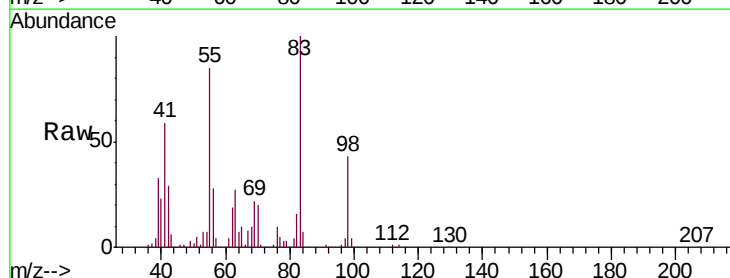
Tgt Ion: 83 Resp: 309024

Ion Ratio Lower Upper

83 100

55 87.2 71.4 107.0

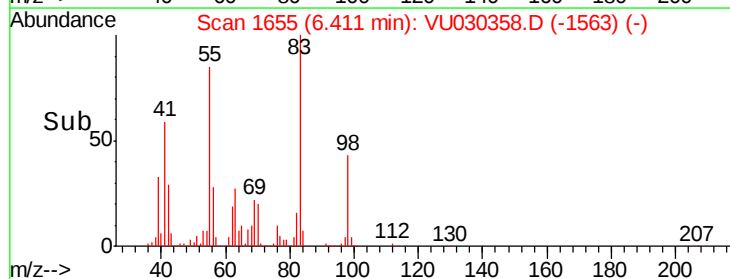
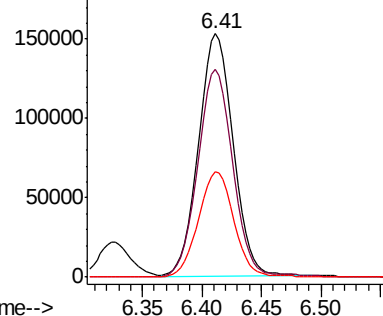
98 44.5 36.0 54.0

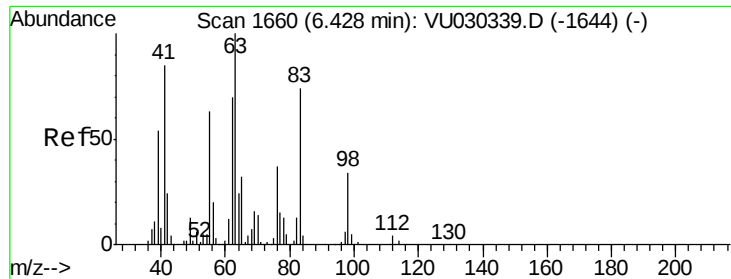


Abundance Ion 83.00 (82.70 to 83.70): VU030339.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU030339.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU030339.D (-1641) (-)





#37

1,2-Dichloropropane

Concen: 47.477 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

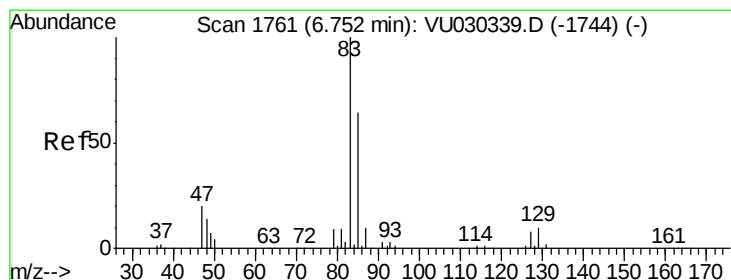
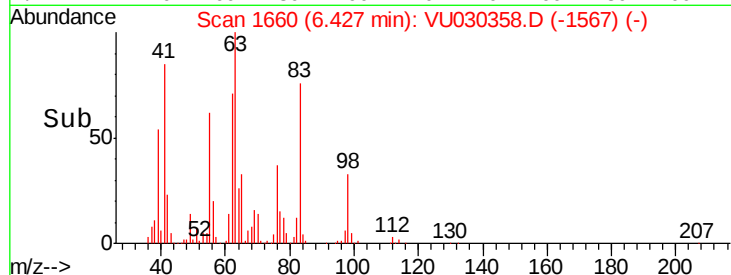
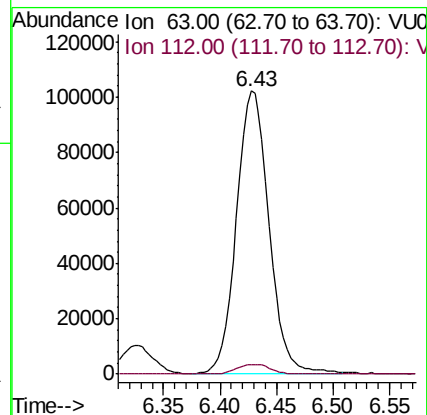
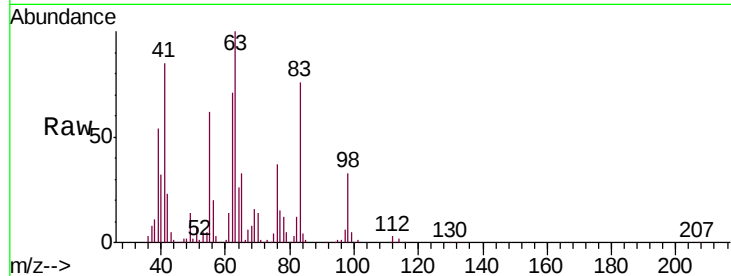
VSTD05057

Tgt Ion: 63 Resp: 203649

Ion Ratio Lower Upper

63 100

112 3.5 2.6 4.0



#38

Bromodichloromethane

Concen: 47.501 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

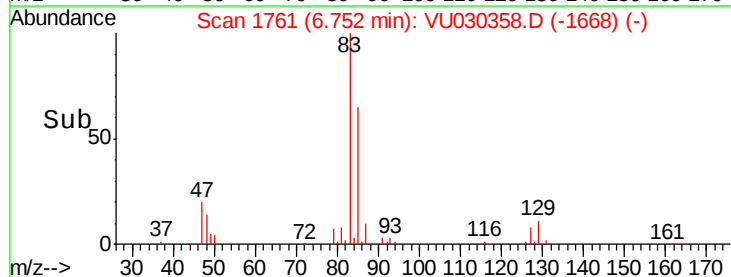
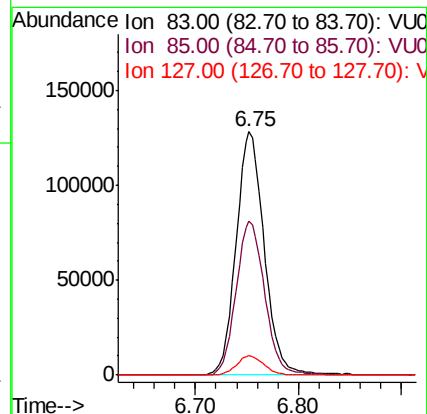
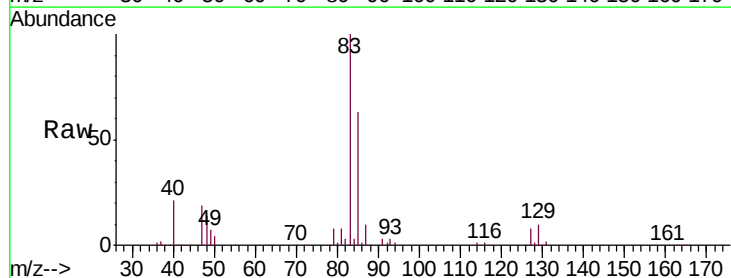
Tgt Ion: 83 Resp: 242097

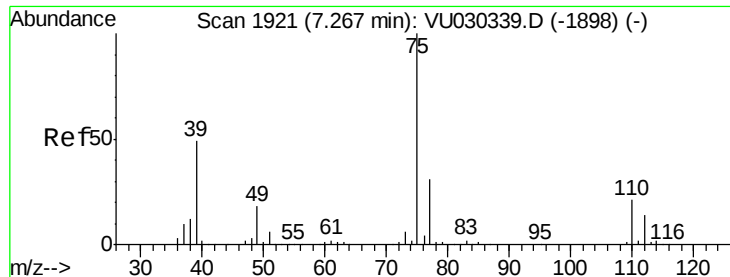
Ion Ratio Lower Upper

83 100

85 63.3 45.0 83.6

127 8.0 6.6 10.0

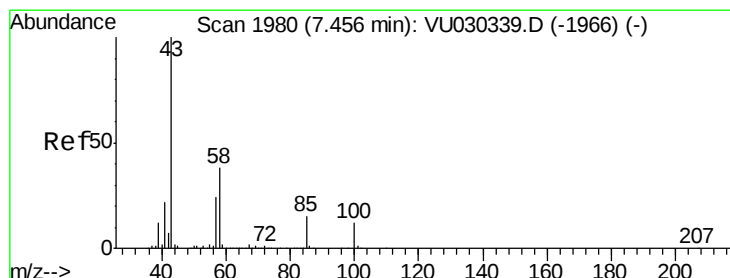
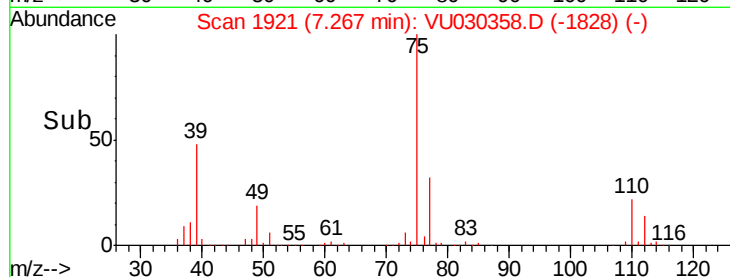
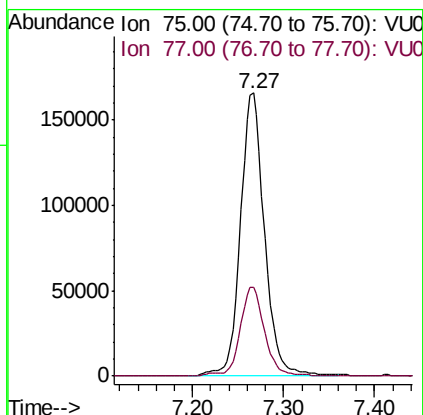
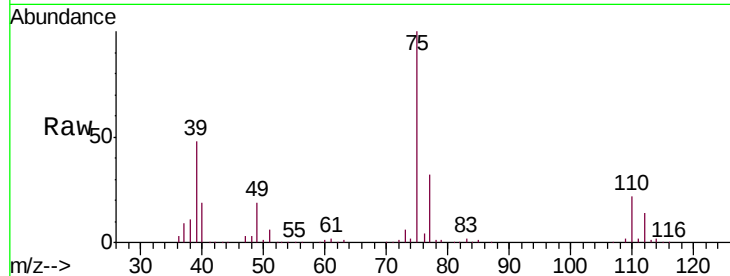




#39
 cis-1,3-Dichloropropene
 Concen: 49.511 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

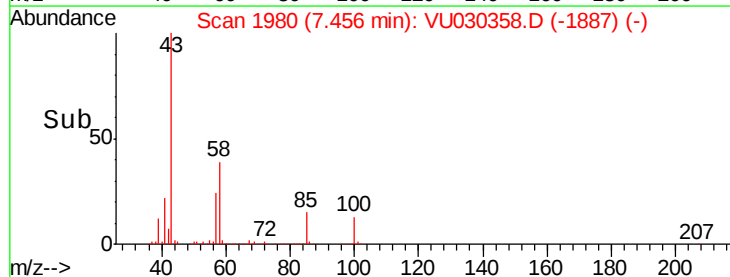
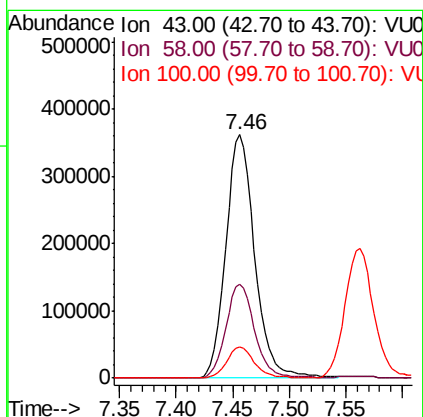
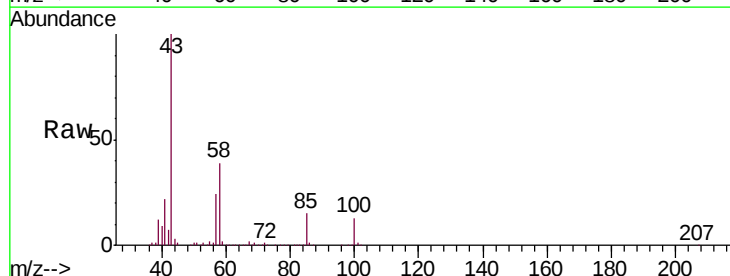
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

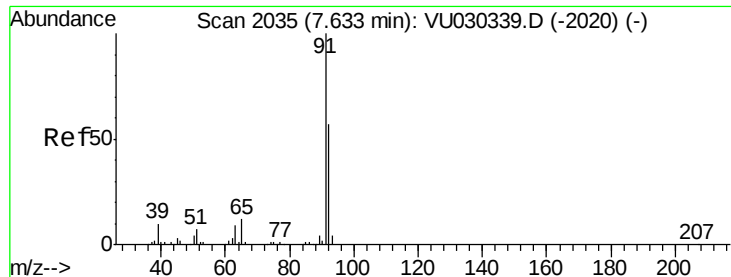
Tgt Ion: 75 Resp: 305252
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 89.744 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

Tgt Ion: 43 Resp: 646601
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.6 45.8
 100 12.3 9.5 14.3





#42

Toluene

Concen: 49.523 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

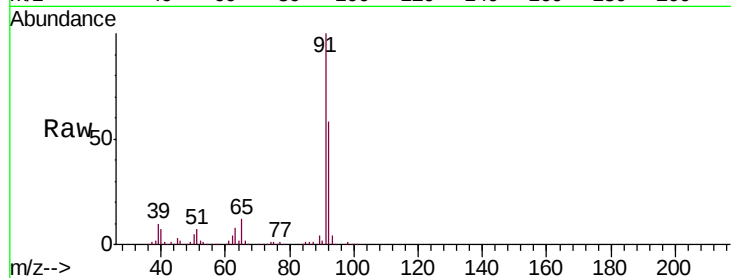
VSTD05057

Tgt Ion: 91 Resp: 776838

Ion Ratio Lower Upper

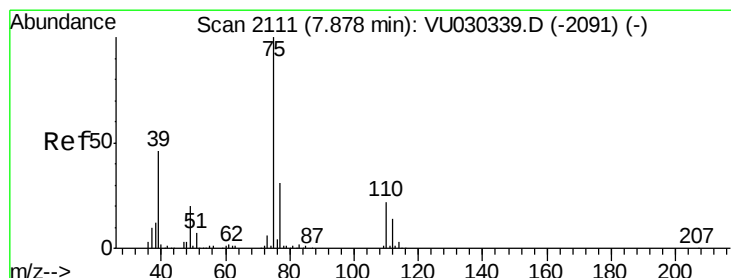
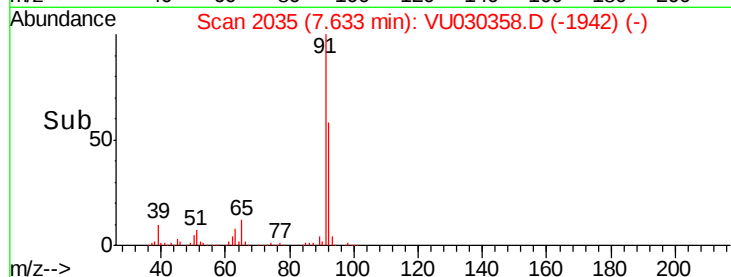
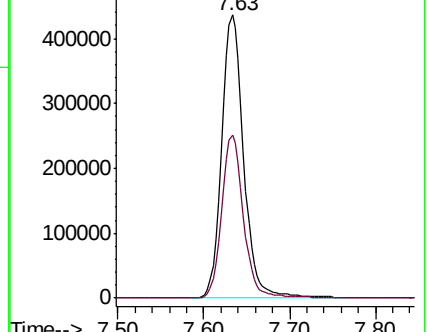
91 100

92 57.8 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU030339.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU030339.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 49.503 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU030358.D

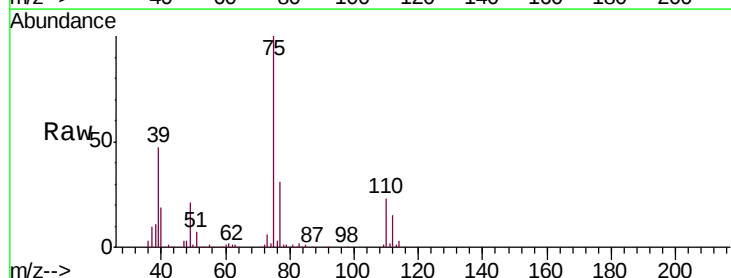
Acq: 24 Mar 2019 09:47

Tgt Ion: 75 Resp: 268545

Ion Ratio Lower Upper

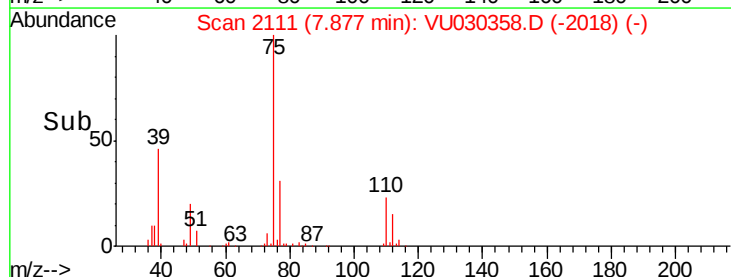
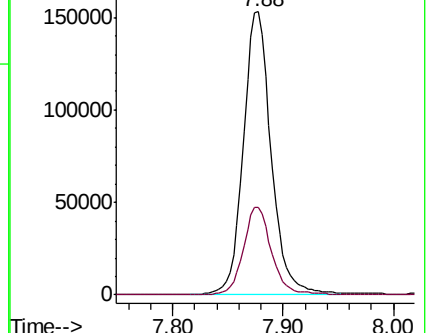
75 100

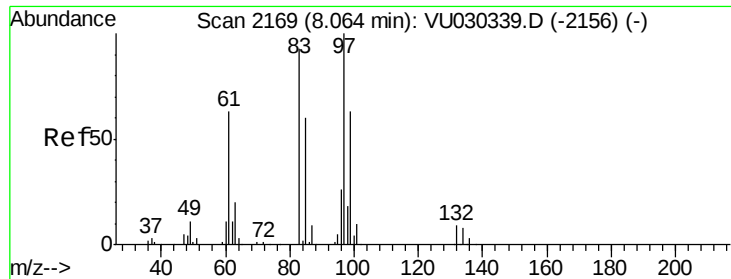
77 30.8 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030339.D (-2091) (-)

Ion 77.00 (76.70 to 77.70): VU030339.D (-2091) (-)

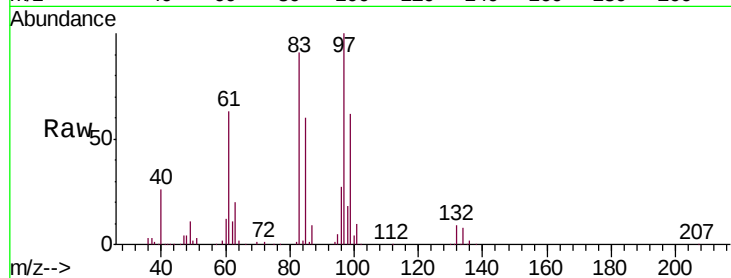




#45
 1,1,2-Trichloroethane
 Concen: 48.339 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion:	97	Resp:	175195
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.0	81.8
83	90.8	65.3	121.3
85	59.9	41.8	77.6



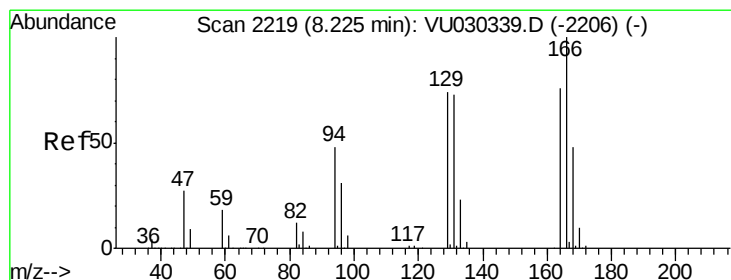
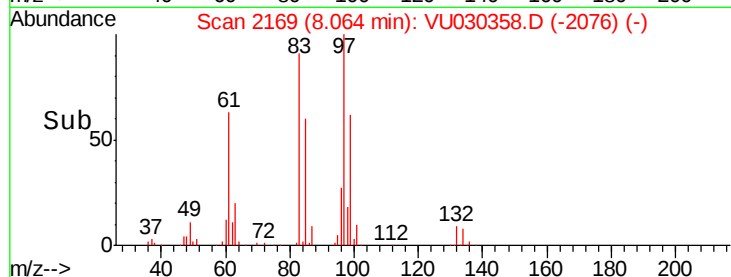
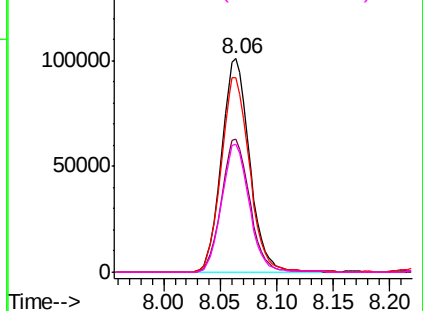
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

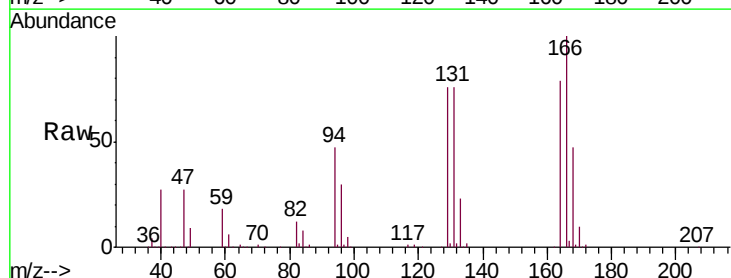
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.725 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

Tgt Ion:	164	Resp:	129050
Ion	Ratio	Lower	Upper
164	100		
129	95.4	68.1	126.5
131	95.3	67.7	125.7
166	126.0	92.4	171.6



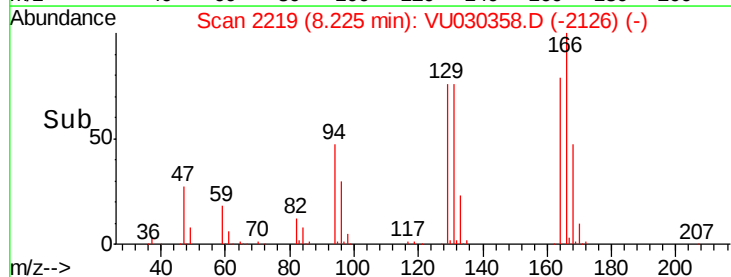
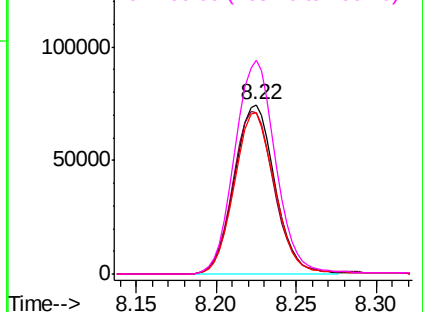
Abundance

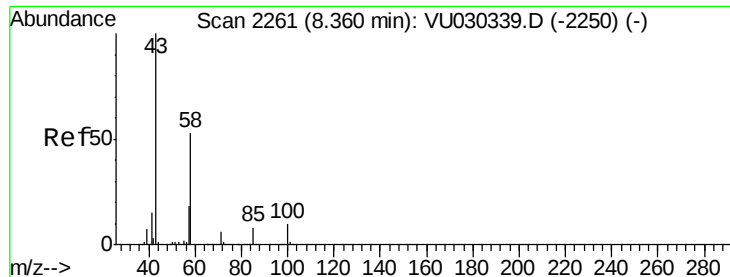
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

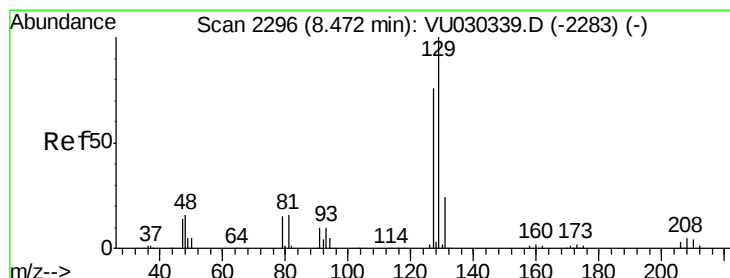
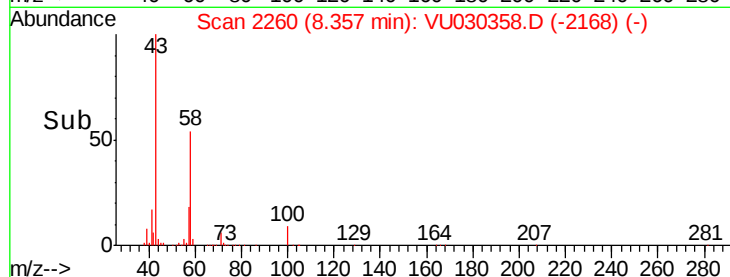
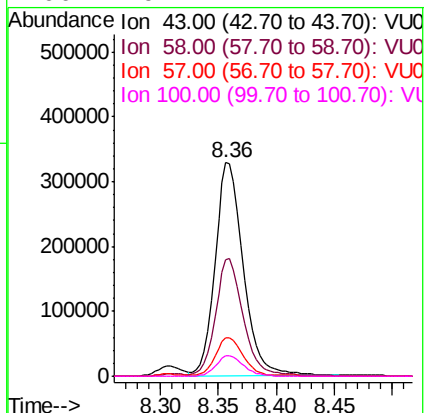
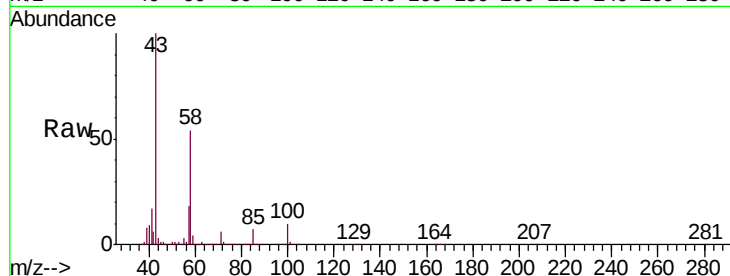




#48
2-Hexanone
Concen: 94.153 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

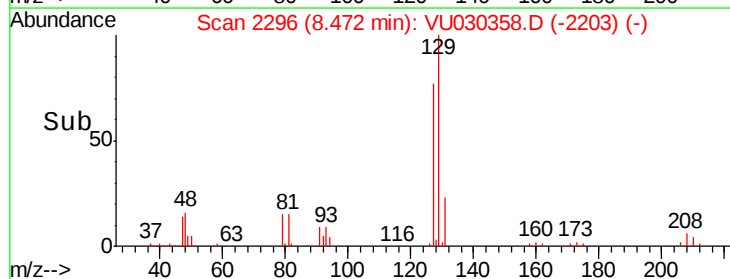
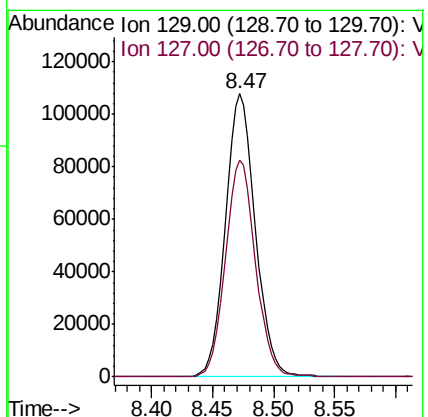
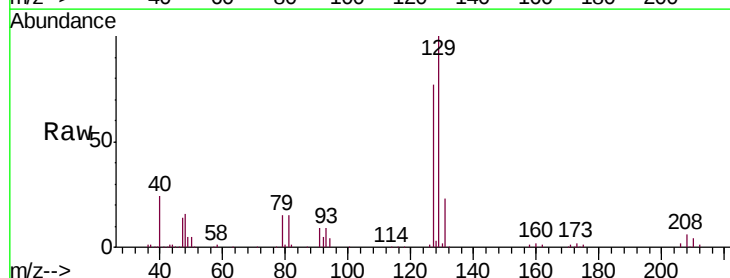
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

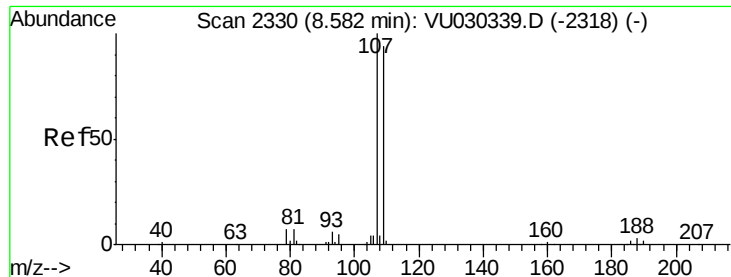
Tgt Ion: 43 Resp: 555979
Ion Ratio Lower Upper
43 100
58 54.4 42.5 63.7
57 17.6 15.0 22.6
100 9.7 7.4 11.2



#49
Dibromochloromethane
Concen: 49.159 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030358.D
Acq: 24 Mar 2019 09:47

Tgt Ion: 129 Resp: 185128
Ion Ratio Lower Upper
129 100
127 76.8 53.2 98.8





#50

1,2-Dibromoethane

Concen: 48.913 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

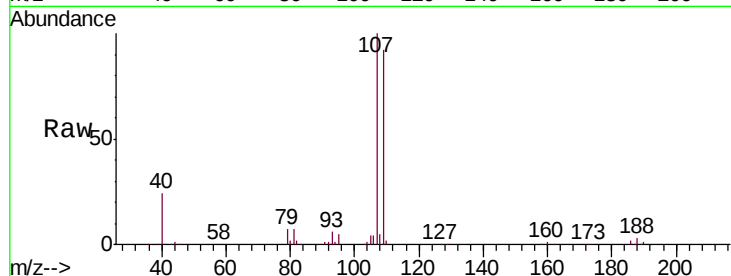
Tgt Ion:107 Resp: 190253

Ion Ratio Lower Upper

107 100

109 91.7 65.8 122.2

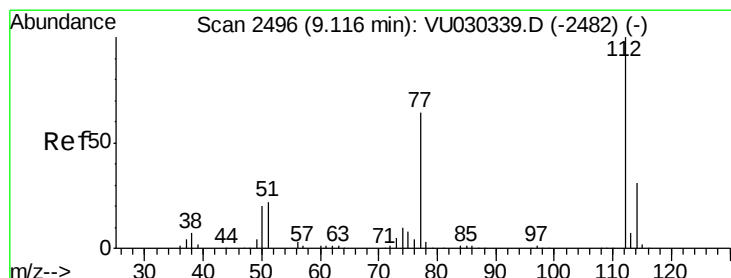
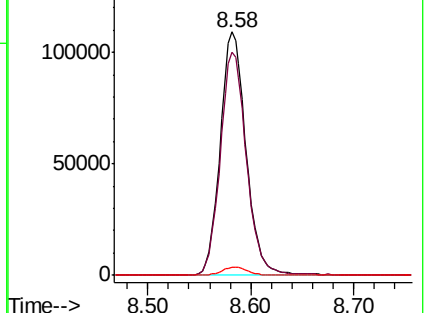
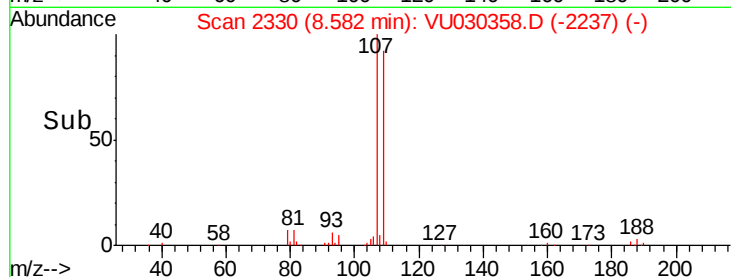
188 3.3 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 47.682 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

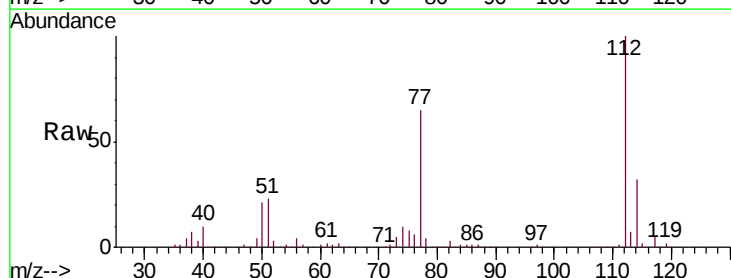
Tgt Ion:112 Resp: 453312

Ion Ratio Lower Upper

112 100

114 32.3 21.5 39.9

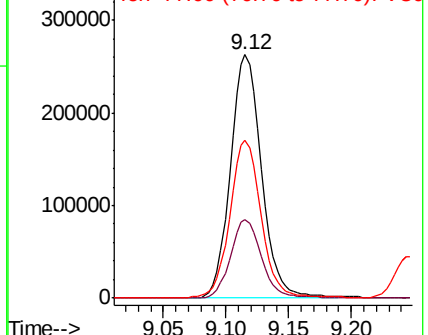
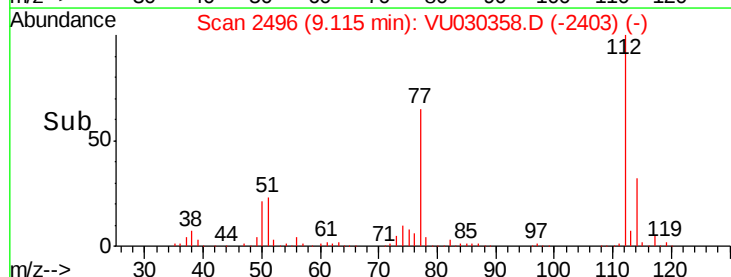
77 65.0 51.4 77.0

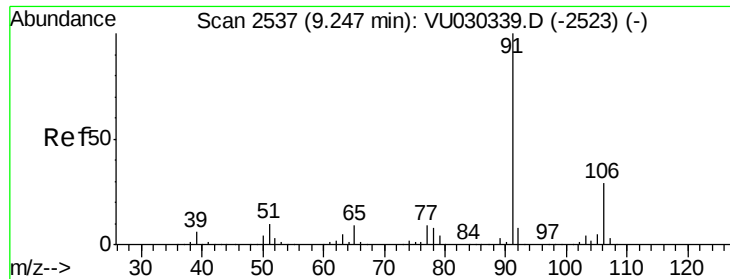


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 49.094 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

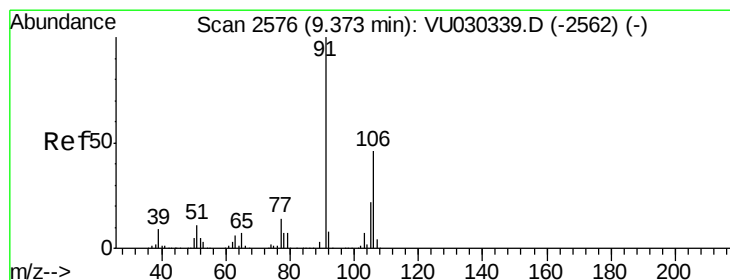
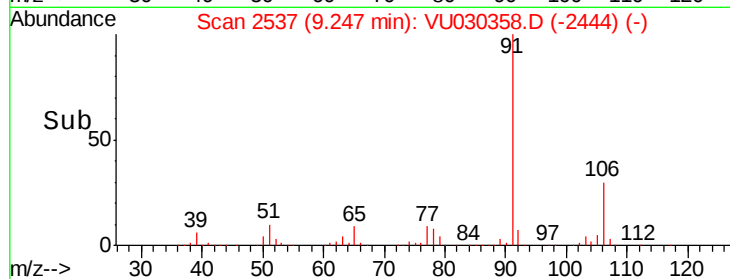
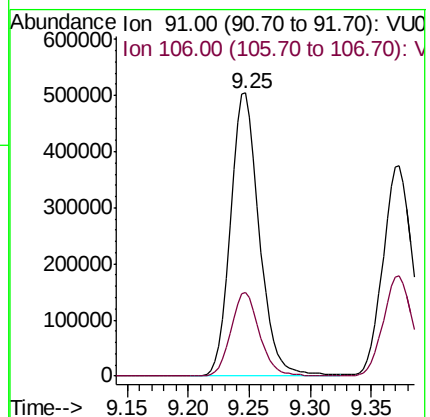
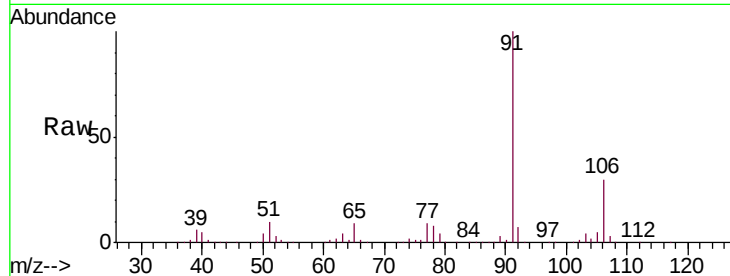
VSTD05057

Tgt Ion: 91 Resp: 834251

Ion Ratio Lower Upper

91 100

106 29.7 20.6 38.2



#53

m,p-Xylene

Concen: 49.640 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU030358.D

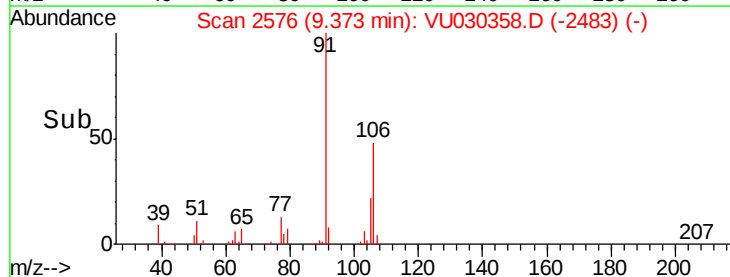
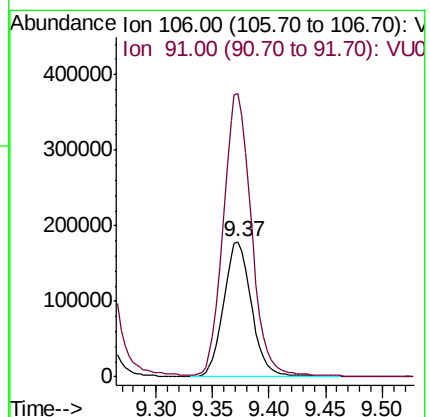
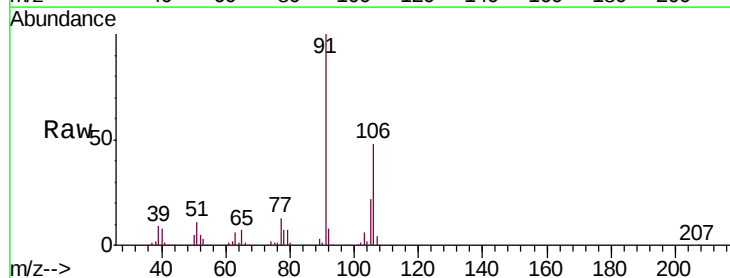
Acq: 24 Mar 2019 09:47

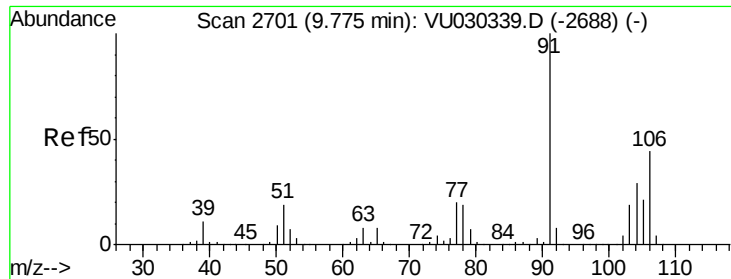
Tgt Ion: 106 Resp: 304572

Ion Ratio Lower Upper

106 100

91 209.9 151.2 280.8





#54

o-xylene

Concen: 49.813 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

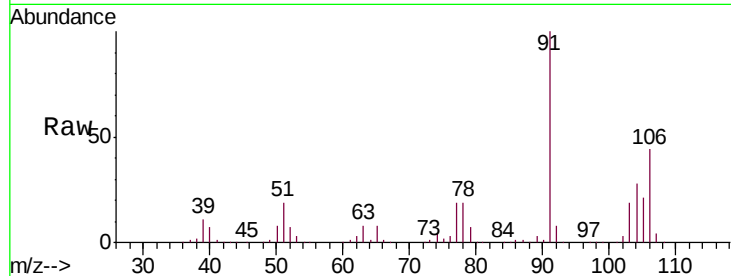
VSTD05057

Tgt Ion:106 Resp: 298219

Ion Ratio Lower Upper

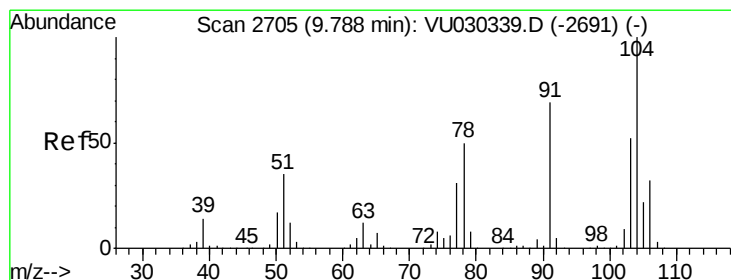
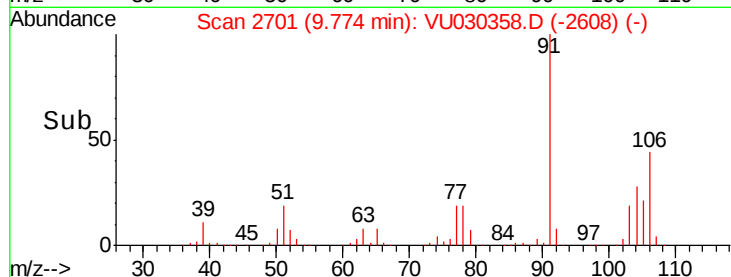
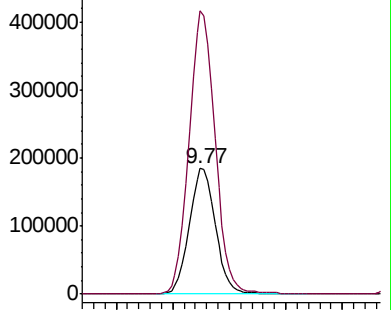
106 100

91 225.6 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.004 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030358.D

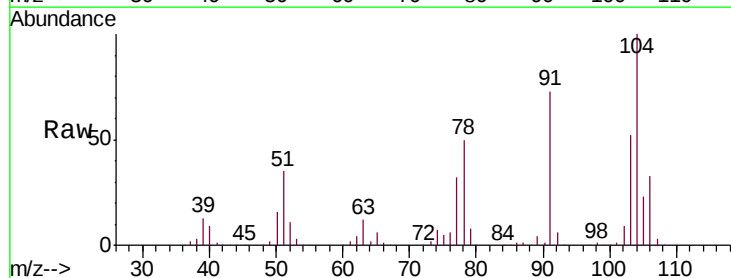
Acq: 24 Mar 2019 09:47

Tgt Ion:104 Resp: 515678

Ion Ratio Lower Upper

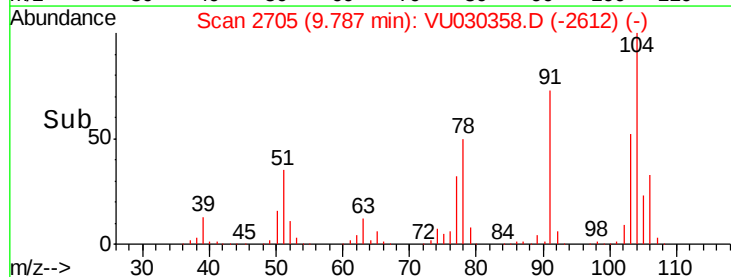
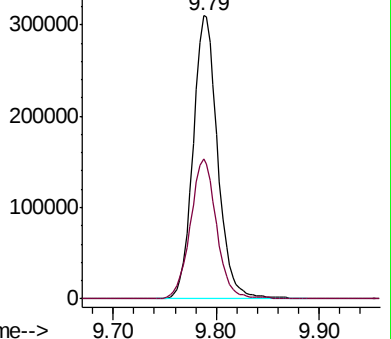
104 100

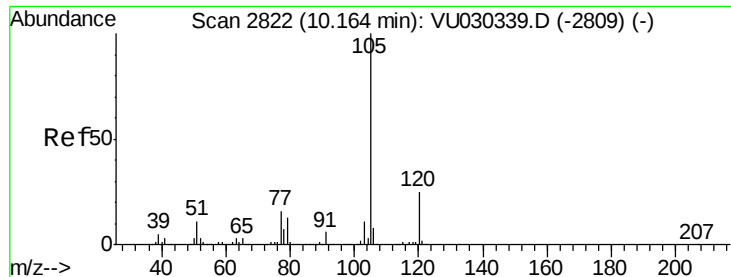
78 49.6 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.035 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

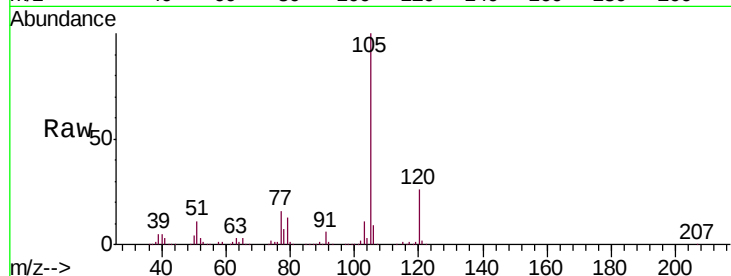
Tgt Ion: 105 Resp: 777310

Ion Ratio Lower Upper

105 100

120 25.5 20.2 30.2

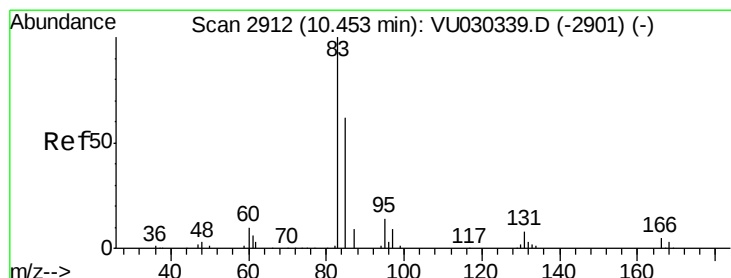
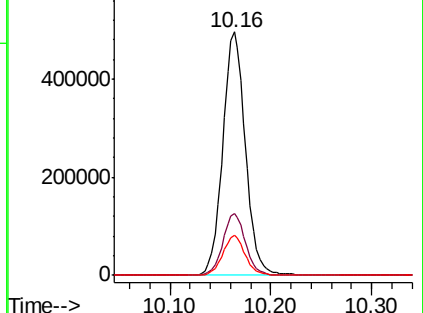
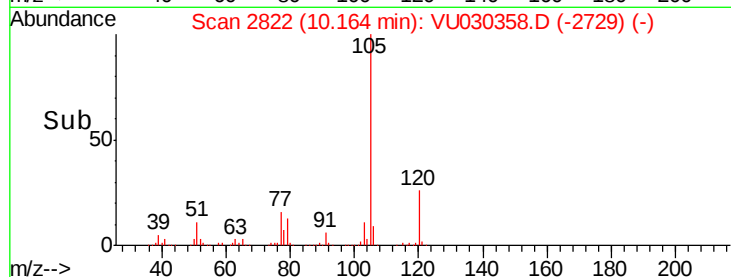
77 16.4 13.2 19.8



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: 46.872 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

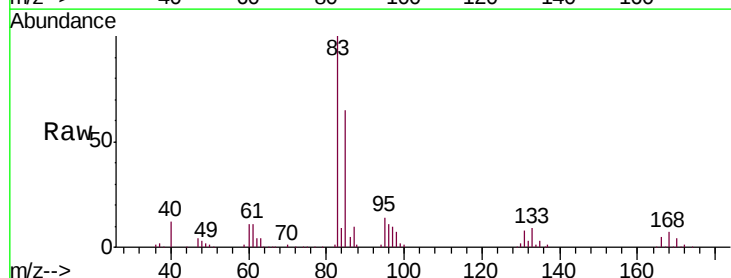
Tgt Ion: 83 Resp: 313091

Ion Ratio Lower Upper

83 100

85 65.4 44.3 82.3

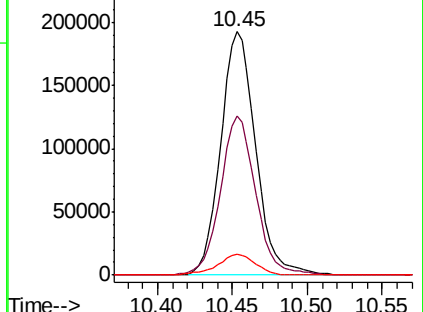
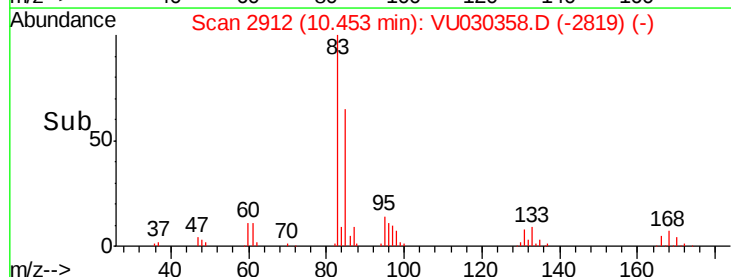
131 8.5 6.7 10.1

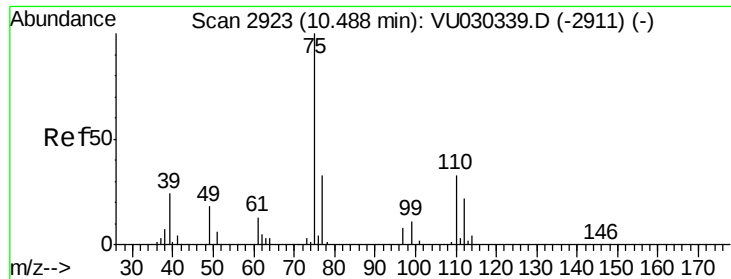


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.751 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

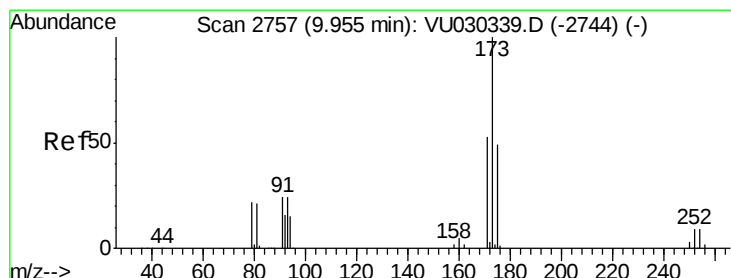
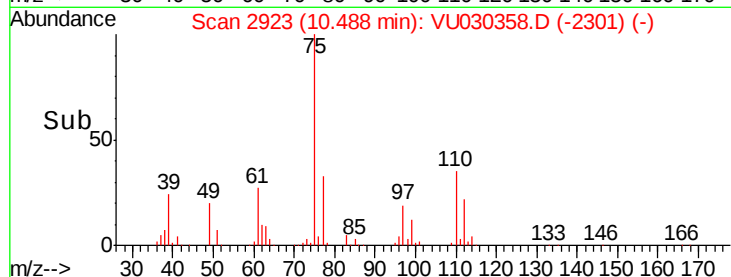
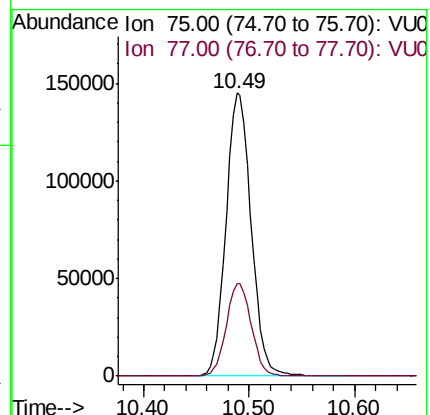
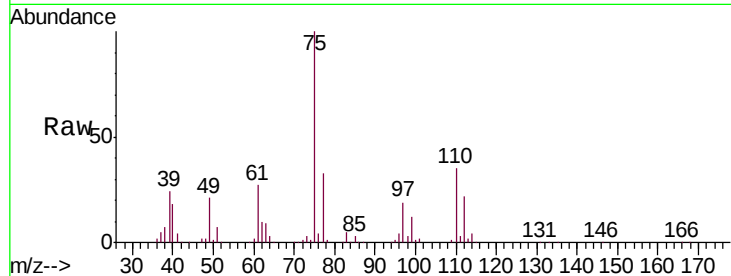
VSTD05057

Tgt Ion: 75 Resp: 238868

Ion Ratio Lower Upper

75 100

77 32.8 25.4 38.2



#61

Bromoform

Concen: 49.838 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

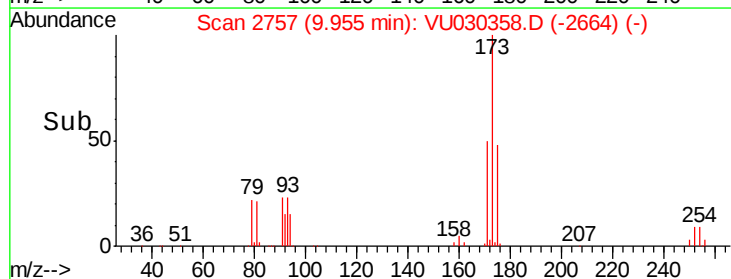
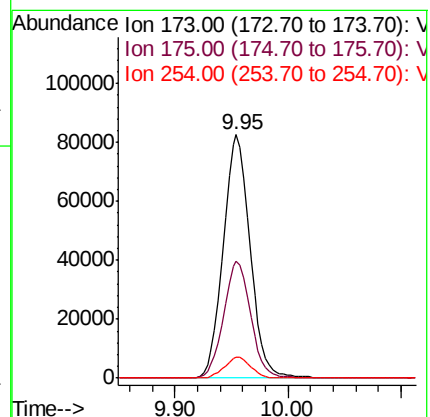
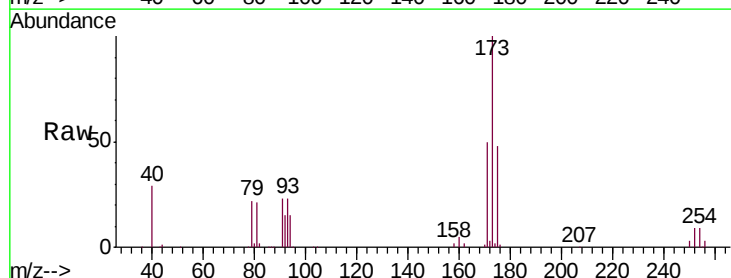
Tgt Ion: 173 Resp: 136375

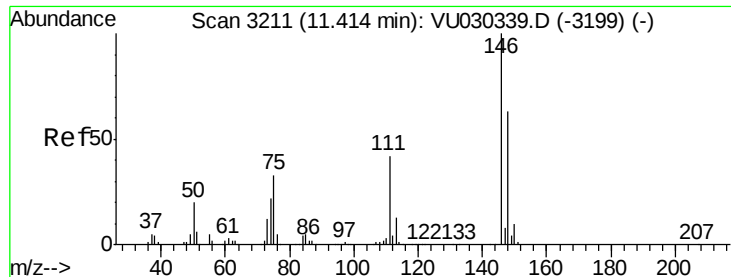
Ion Ratio Lower Upper

173 100

175 48.5 38.5 57.7

254 8.5 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 48.464 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

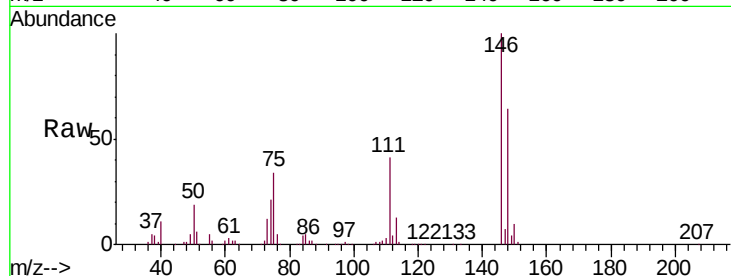
Tgt Ion:146 Resp: 326189

Ion Ratio Lower Upper

146 100

111 41.3 29.2 54.2

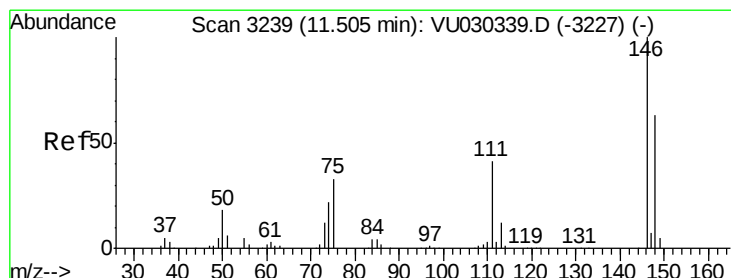
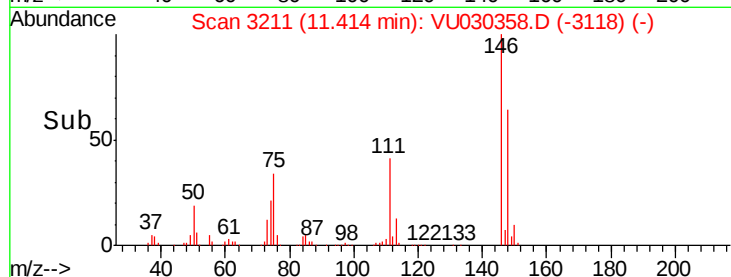
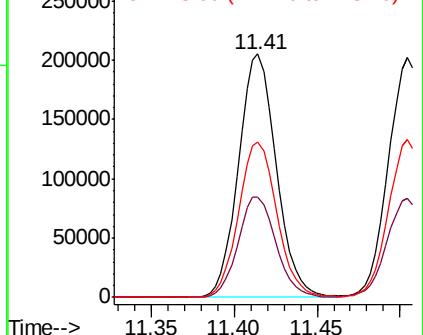
148 63.8 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.989 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

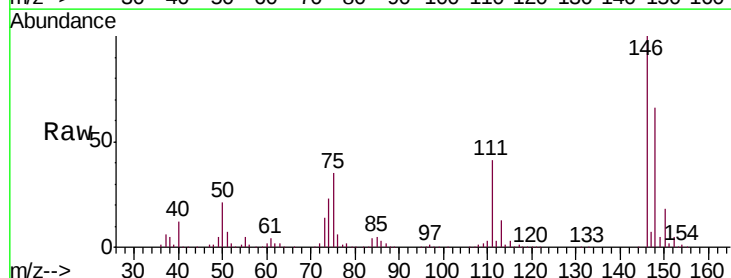
Tgt Ion:146 Resp: 325586

Ion Ratio Lower Upper

146 100

111 41.4 28.7 53.3

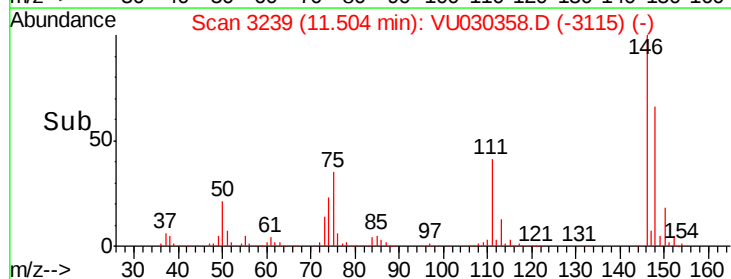
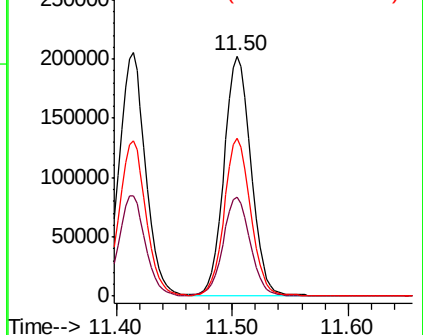
148 65.7 44.3 82.3

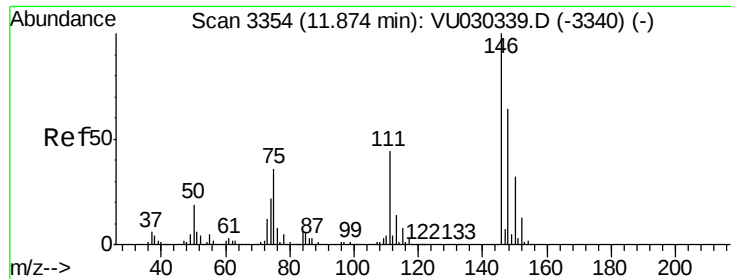


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

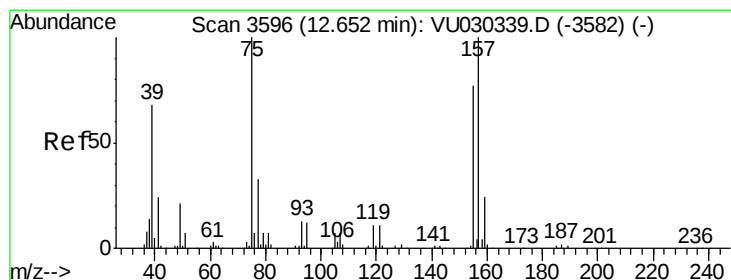
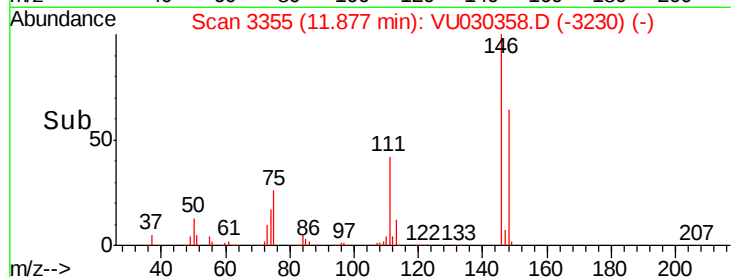
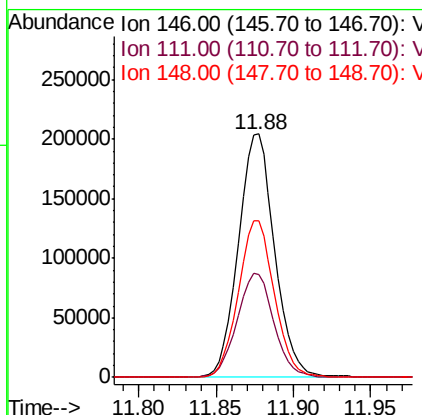
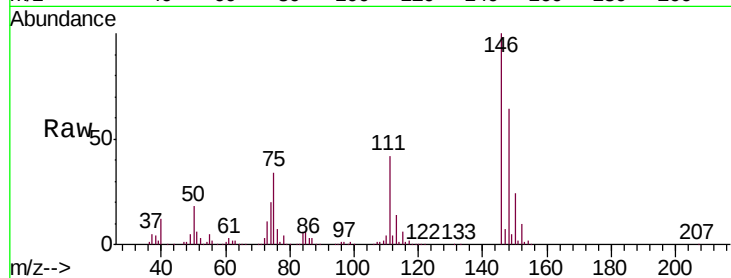




#65
 1,2-Dichlorobenzene
 Concen: 48.872 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

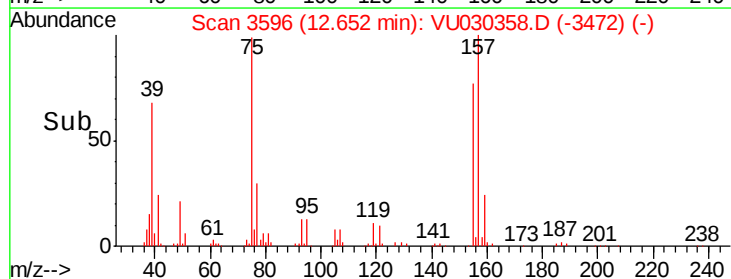
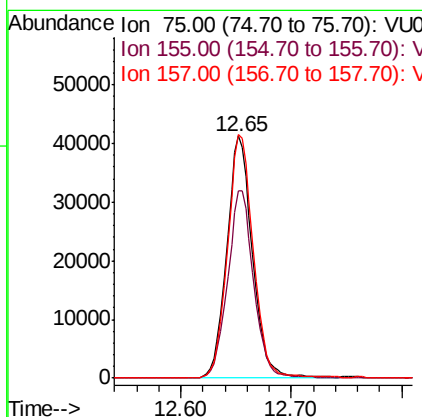
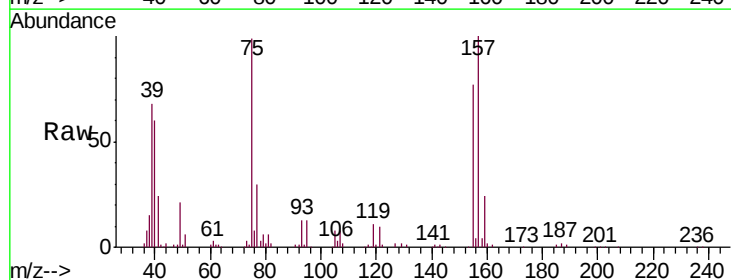
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

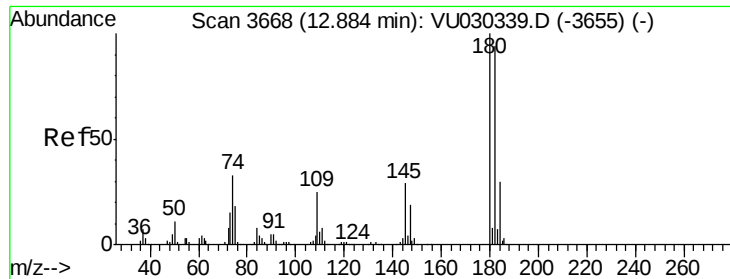
Tgt Ion: 146 Resp: 332610
 Ion Ratio Lower Upper
 146 100
 111 42.4 34.9 52.3
 148 64.1 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.888 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030358.D
 Acq: 24 Mar 2019 09:47

Tgt Ion: 75 Resp: 66507
 Ion Ratio Lower Upper
 75 100
 155 77.3 61.8 92.6
 157 100.6 80.2 120.4





#67

1,3,5-Trichlorobenzene

Concen: 48.726 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion:180 Resp: 245516

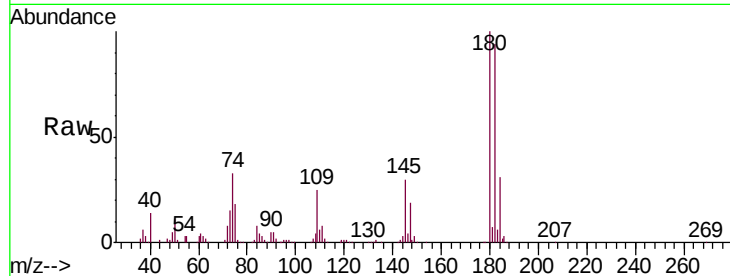
Ion Ratio Lower Upper

180 100

182 94.0 75.9 113.9

184 30.6 24.1 36.1

145 29.4 23.8 35.8

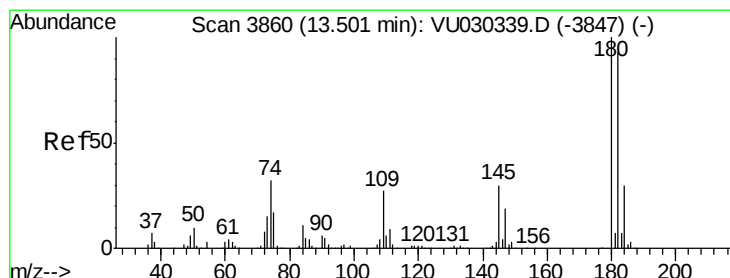
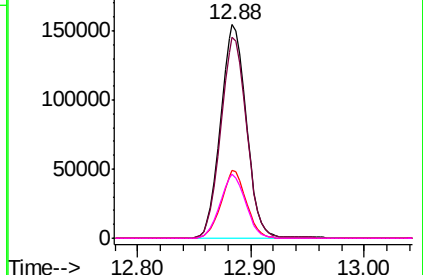
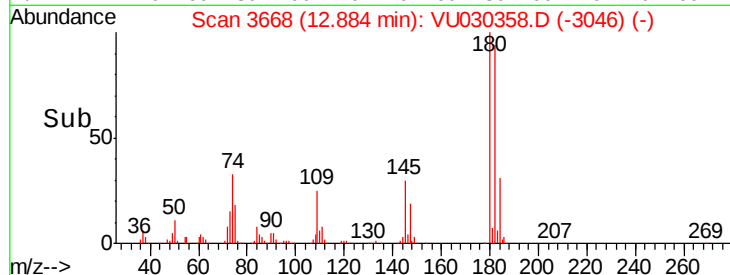


Abundance Ion 180.00 (179.70 to 180.70): V

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: 47.249 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

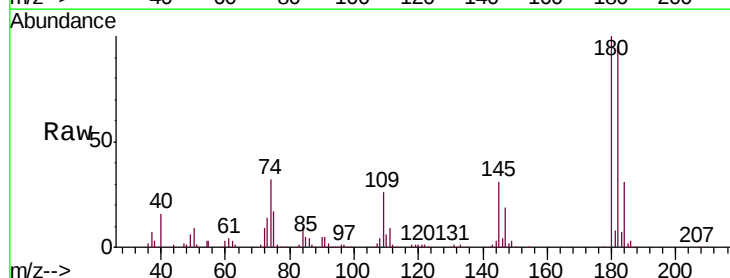
Tgt Ion:180 Resp: 206858

Ion Ratio Lower Upper

180 100

182 95.7 76.1 114.1

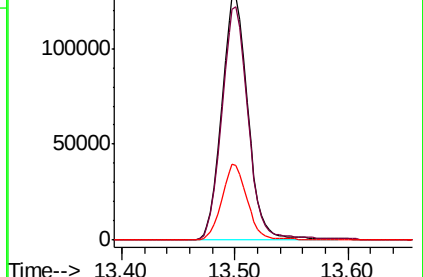
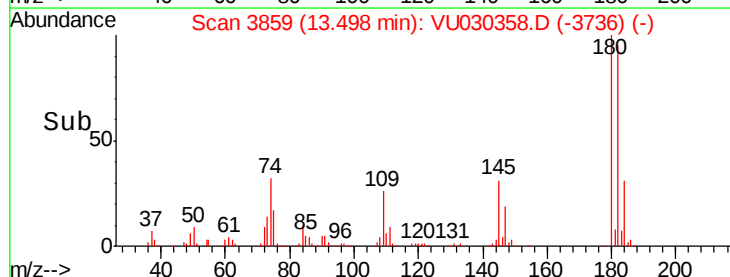
145 29.5 24.5 36.7

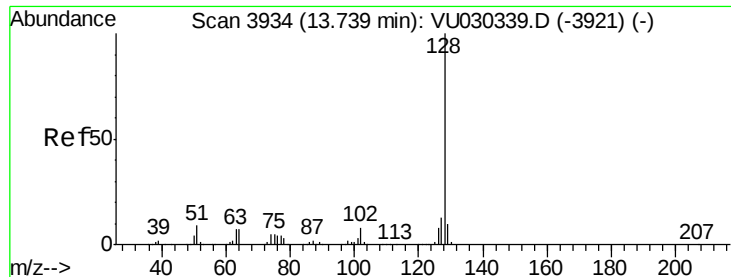


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 42.308 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

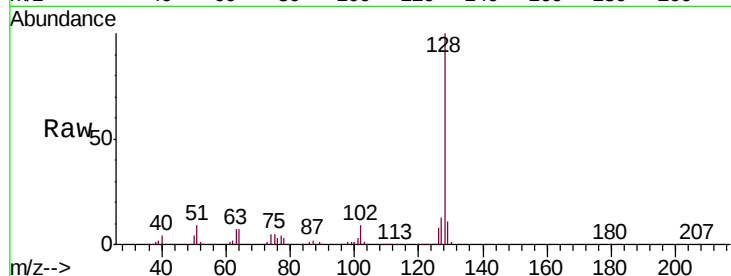
Tgt Ion:128 Resp: 658631

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

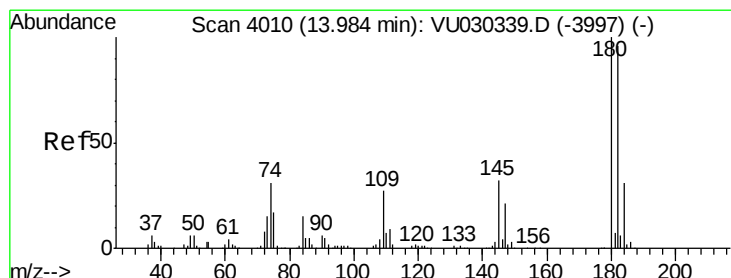
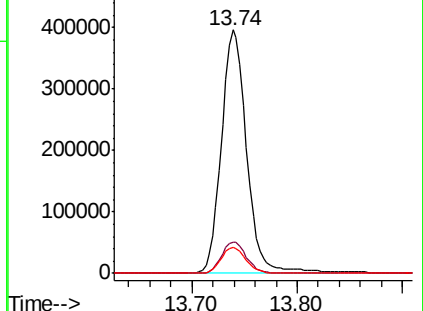
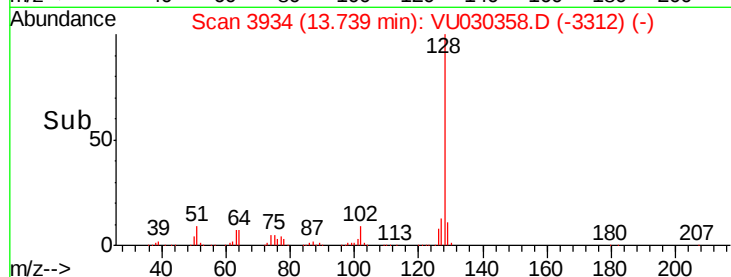
129 10.5 8.4 12.6



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: 46.003 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030358.D

Acq: 24 Mar 2019 09:47

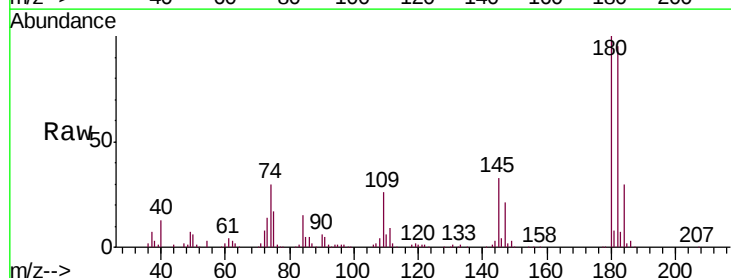
Tgt Ion:180 Resp: 212672

Ion Ratio Lower Upper

180 100

182 96.3 77.4 116.2

145 32.2 25.9 38.9



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

