

Data File : VU030529.D
Acq On : 28 Mar 2019 20:56
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: Mar 29 01:24:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 29 01:19:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	380224	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	367900	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	171634	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	161458	52.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	105.52%
7) Chloroethane-d5	1.67	69	131563	54.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	108.48%
11) 1,1-Dichloroethene-d2	2.27	63	316114	54.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	108.92%
21) 2-Butanone-d5	4.17	46	311700	108.36	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.36%
24) Chloroform-d	4.65	84	289635	54.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.88%
26) 1,2-Dichloroethane-d4	5.31	65	190605	55.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.50%
32) Benzene-d6	5.34	84	571965	54.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.42%
36) 1,2-Dichloropropane-d6	6.33	67	199007	55.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.26%
41) Toluene-d8	7.56	98	523244	55.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.44%
43) trans-1,3-Dichloropropene-	7.85	79	89133	52.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.02%
47) 2-Hexanone-d5	8.31	63	177007	90.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.49%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	279755	54.16	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.32%
64) 1,2-Dichlorobenzene-d4	11.86	152	184598	53.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.36%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	216661	51.646	ug/L	99
3) Chloromethane	1.33	50	260435	55.507	ug/L	99
5) Vinyl chloride	1.40	62	237793	53.446	ug/L	99
6) Bromomethane	1.61	94	113192	55.458	ug/L	100
8) Chloroethane	1.69	64	140511	55.941	ug/L	98
9) Trichlorofluoromethane	1.88	101	269476	55.541	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	150461	54.220	ug/L	99
12) 1,1-Dichloroethene	2.28	96	145221	53.382	ug/L	95
13) Acetone	2.32	43	240197	82.569	ug/L	99
14) Carbon disulfide	2.48	76	443209	49.274	ug/L	99
15) Methyl Acetate	2.61	43	252571	56.702	ug/L #	100
16) Methylene chloride	2.70	84	175540	54.737	ug/L	96
17) trans-1,2-Dichloroethene	2.98	96	150003	52.558	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	528666	56.013	ug/L	99
19) 1,1-Dichloroethane	3.44	63	326318	55.729	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	171956	53.723	ug/L	96
22) 2-Butanone	4.26	43	367200	104.431	ug/L	99

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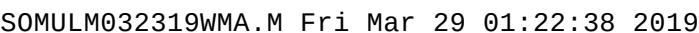
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

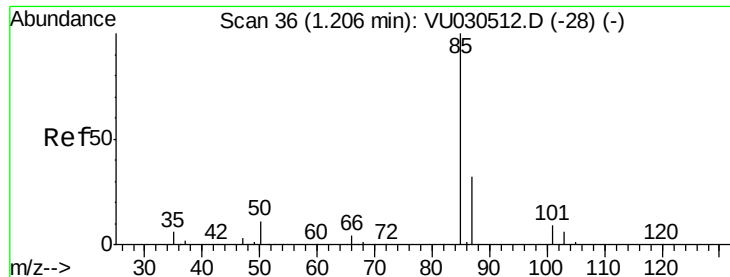
Quant Time: Mar 29 01:24:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 29 01:19:16 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	81149	54.546	ug/L	97
25) Chloroform	4.67	83	309003	55.504	ug/L	96
27) 1,2-Dichloroethane	5.40	62	249392	57.088	ug/L	99
29) Cyclohexane	4.99	56	303541	54.520	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	250405	55.587	ug/L	100
31) Carbon tetrachloride	5.13	117	208262	54.544	ug/L	98
33) Benzene	5.39	78	681738	54.436	ug/L	100
34) Trichloroethene	6.18	95	160135	52.014	ug/L	99
35) Methylcyclohexane	6.41	83	262650	51.843	ug/L	99
37) 1,2-Dichloropropane	6.43	63	193412	54.420	ug/L	100
38) Bromodichloromethane	6.75	83	233154	55.211	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	281883	55.179	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	664126	111.248	ug/L	98
42) Toluene	7.63	91	711769	54.762	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	245694	54.661	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	162844	54.228	ug/L	99
46) Tetrachloroethene	8.22	164	116405	54.133	ug/L	96
48) 2-Hexanone	8.36	43	525089	107.319	ug/L	98
49) Dibromochloromethane	8.47	129	170150	54.530	ug/L	98
50) 1,2-Dibromoethane	8.58	107	174429	54.123	ug/L	99
51) Chlorobenzene	9.12	112	420264	53.351	ug/L	99
52) Ethylbenzene	9.25	91	769109	54.625	ug/L	99
53) m,p-Xylene	9.37	106	274991	54.091	ug/L	96
54) o-xylene	9.77	106	277691	55.980	ug/L	97
55) Styrene	9.79	104	471301	55.156	ug/L	99
56) Isopropylbenzene	10.16	105	715635	54.484	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	304107	54.947	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	240028	55.485	ug/L	100
61) Bromoform	9.95	173	121949	53.440	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	296715	52.863	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	291273	50.408	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	305456	53.820	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	68598	54.282	ug/L	93
67) 1,3,5-Trichlorobenzene	12.88	180	208719	49.672	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	166741	45.670	ug/L	97
69) Naphthalene	13.74	128	561729	43.269	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	185802	48.194	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 51.646 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

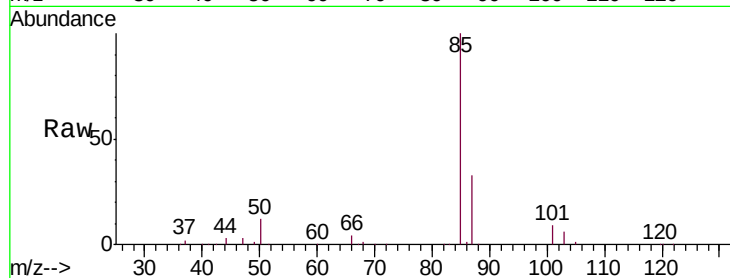
VSTD05039

Tgt Ion: 85 Resp: 216661

Ion Ratio Lower Upper

85 100

87 32.5 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030529.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030529.D (-1) (-)

1.21

200000

150000

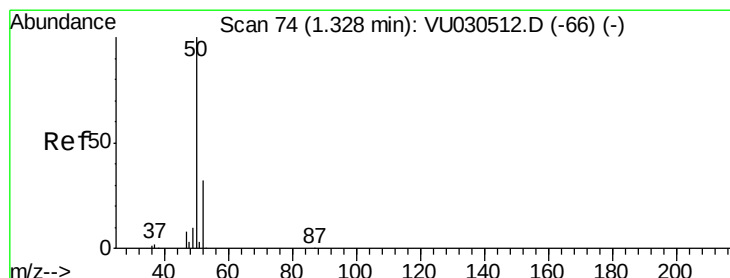
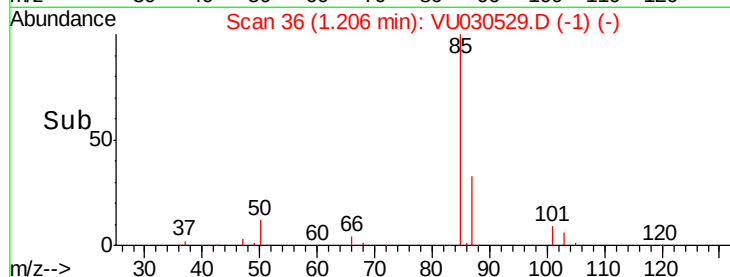
100000

50000

0

Time-->

1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 55.507 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030529.D

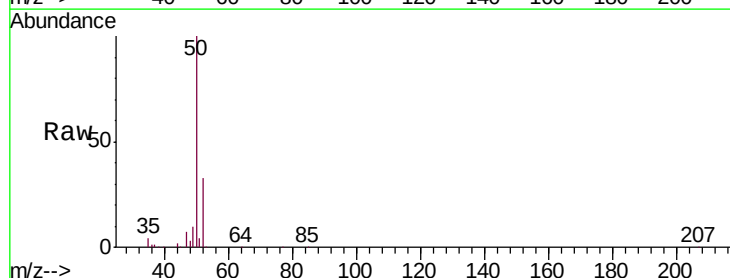
Acq: 28 Mar 2019 20:56

Tgt Ion: 50 Resp: 260435

Ion Ratio Lower Upper

50 100

52 33.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030529.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU030529.D (-1) (-)

1.33

250000

200000

150000

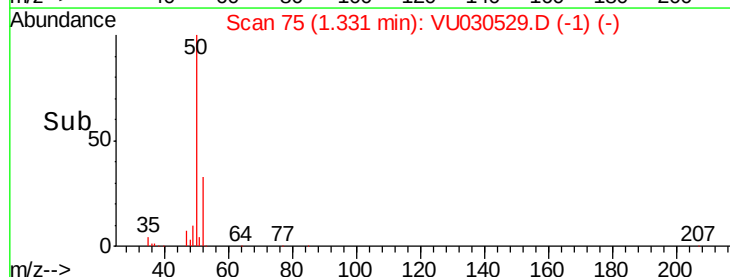
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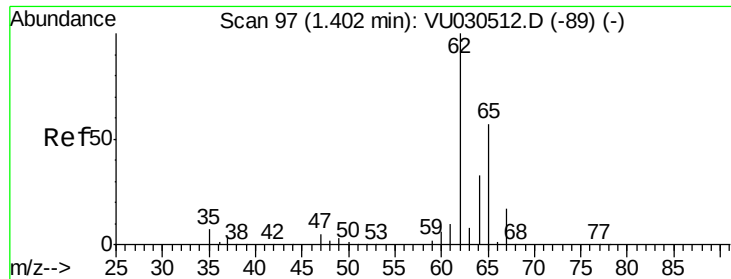
50000

0

Time-->

1.30 1.35 1.40





#5

Vinyl chloride

Concen: 53.446 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

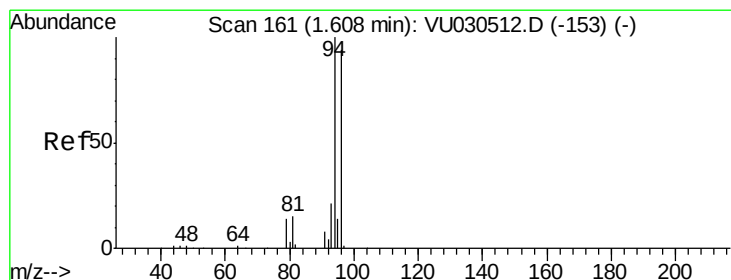
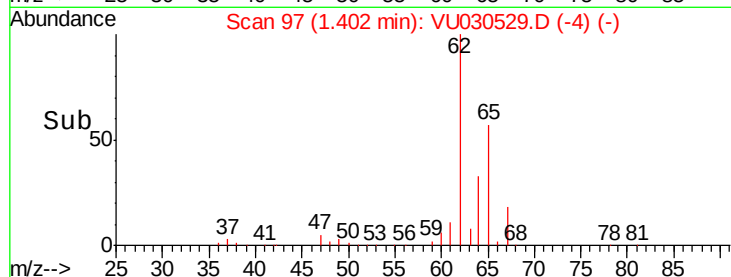
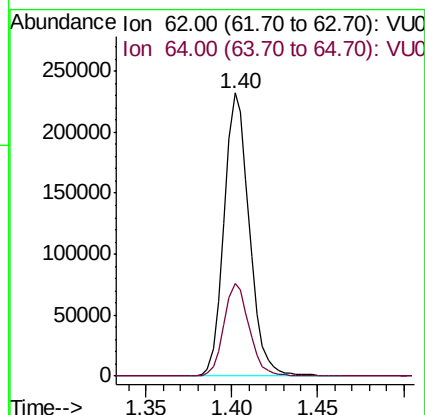
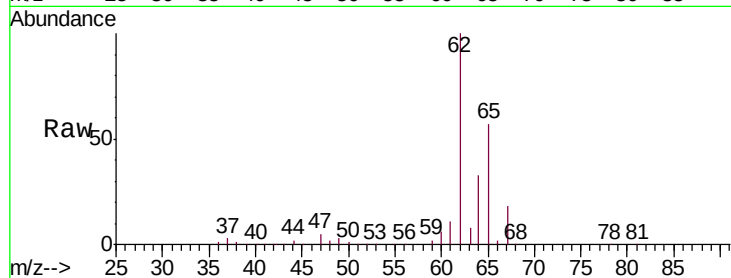
VSTD05039

Tgt Ion: 62 Resp: 237793

Ion Ratio Lower Upper

62 100

64 32.8 22.6 42.0



#6

Bromomethane

Concen: 55.458 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU030529.D

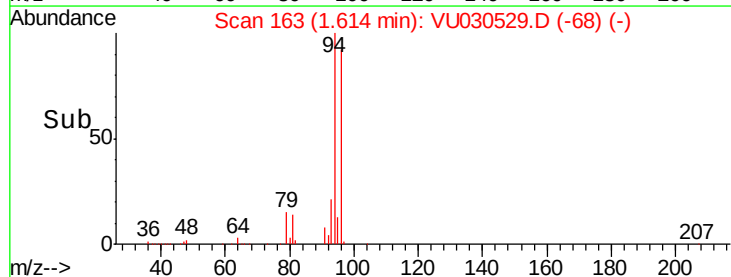
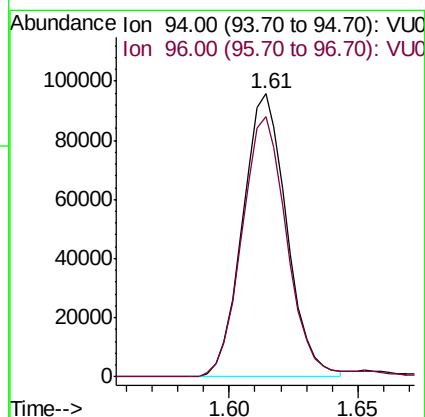
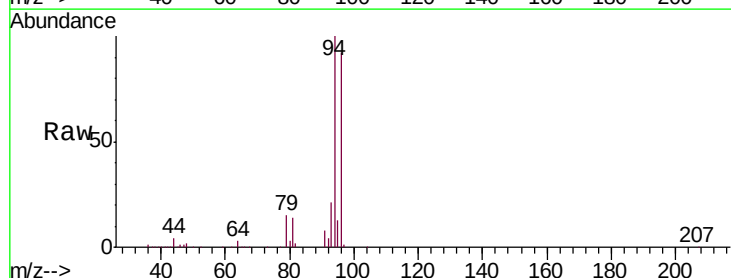
Acq: 28 Mar 2019 20:56

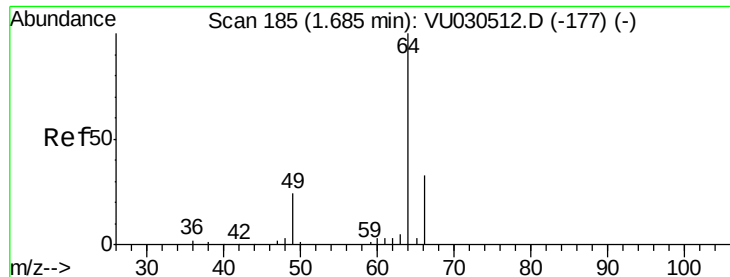
Tgt Ion: 94 Resp: 113192

Ion Ratio Lower Upper

94 100

96 92.1 64.8 120.3

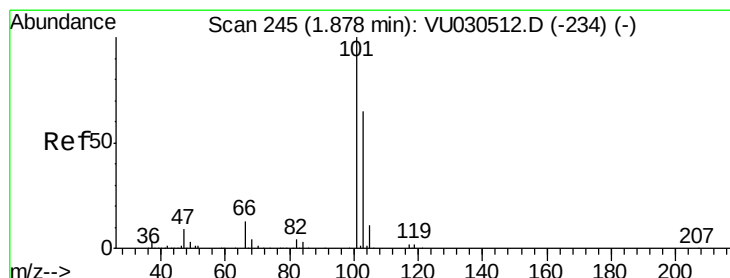
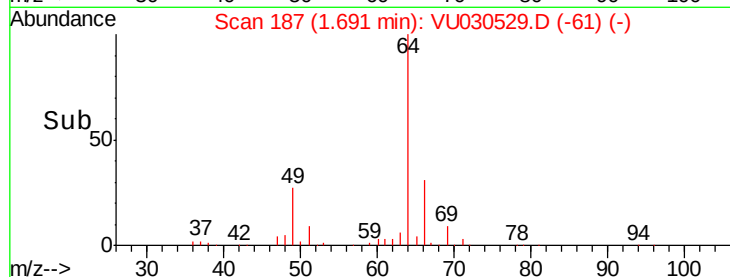
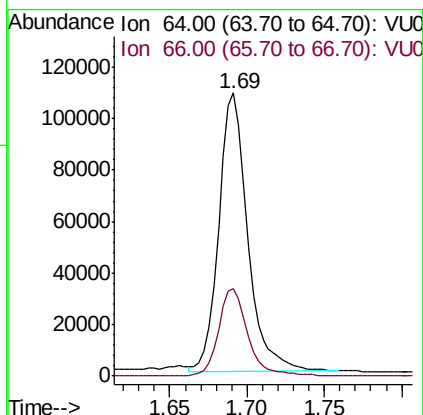
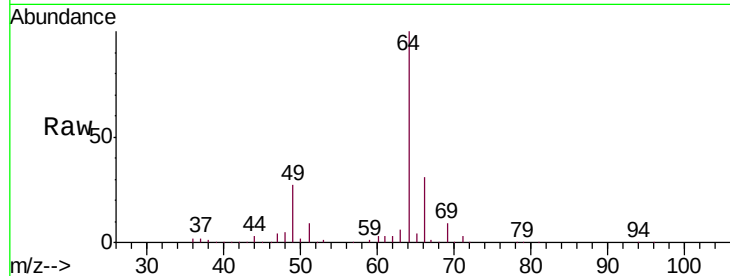




#8
Chloroethane
Concen: 55.941 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.01 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

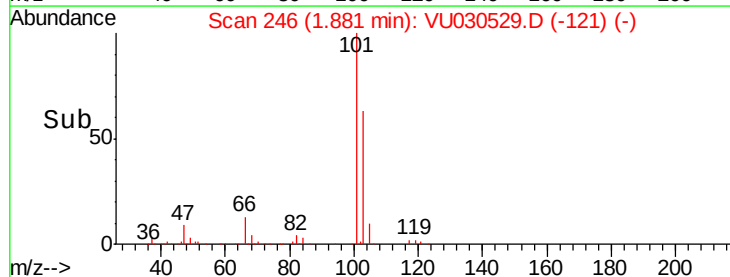
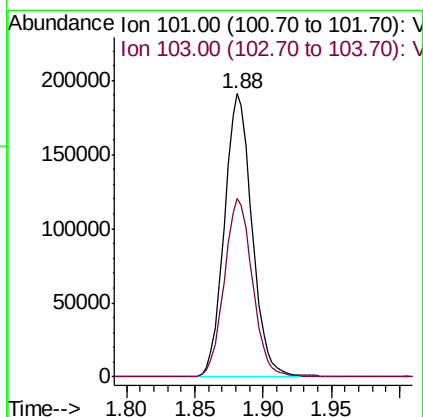
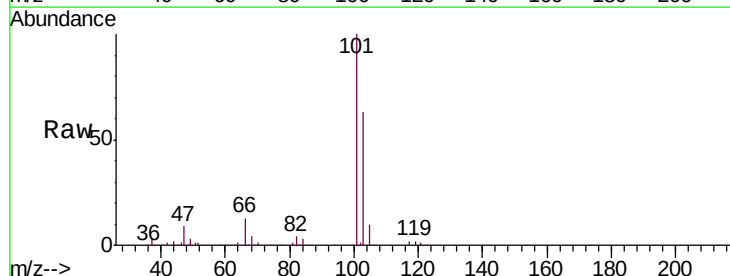
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

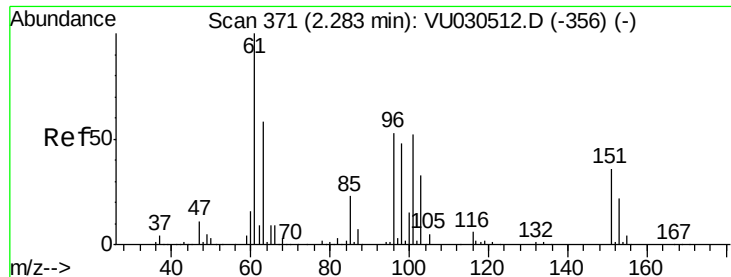
Tgt Ion: 64 Resp: 140511
Ion Ratio Lower Upper
64 100
66 31.1 22.5 41.7



#9
Trichlorofluoromethane
Concen: 55.541 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Tgt Ion: 101 Resp: 269476
Ion Ratio Lower Upper
101 100
103 64.2 51.1 76.7





#10

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

Concen: 54.220 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampled :

VSTD05039

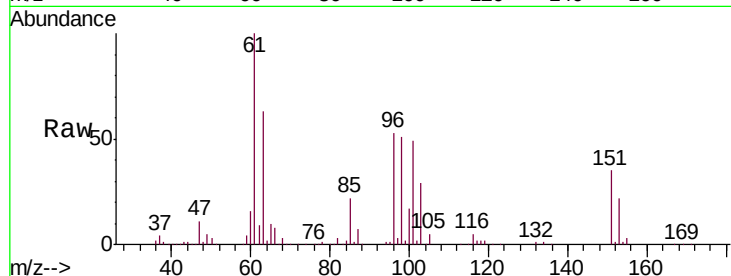
Tgt Ion: 101 Resp: 150461

Ion Ratio Lower Upper

101 100

85 43.9 34.8 52.2

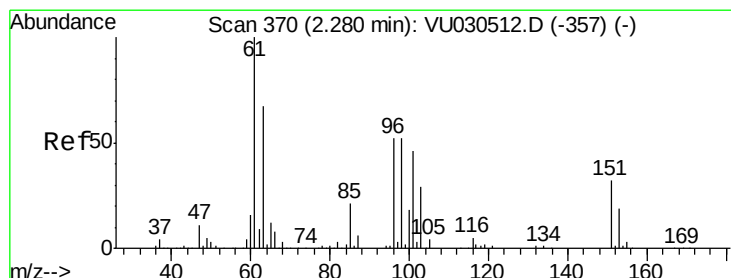
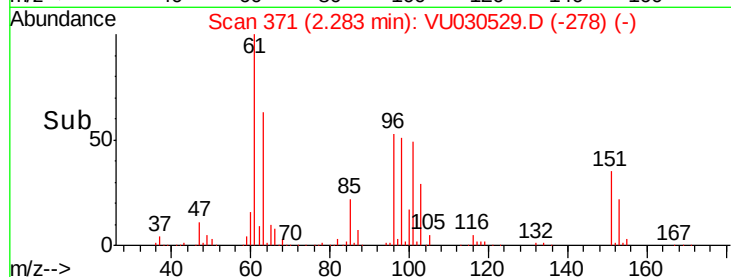
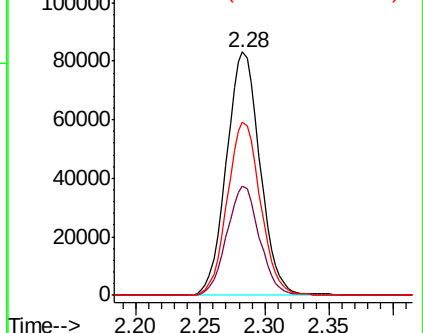
151 70.3 56.6 85.0



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: 53.382 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

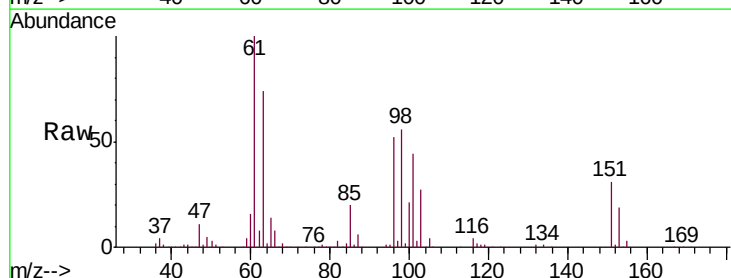
Tgt Ion: 96 Resp: 145221

Ion Ratio Lower Upper

96 100

61 191.1 131.0 243.4

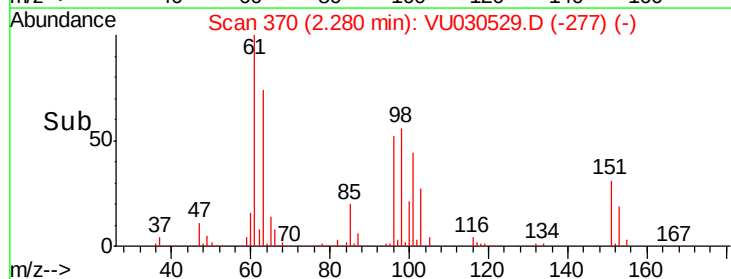
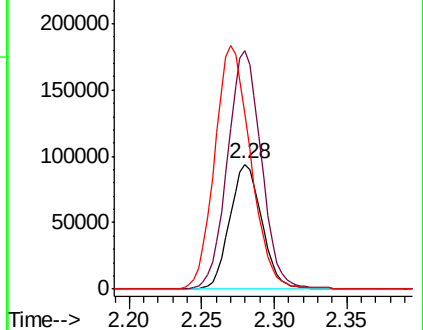
63 141.4 92.4 171.6

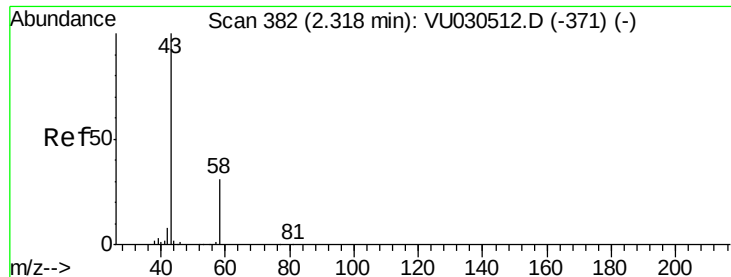


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 82.569 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

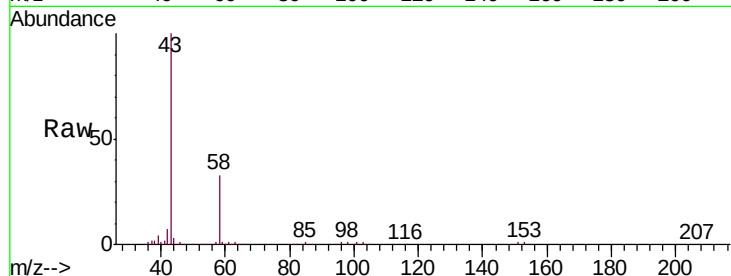
VSTD05039

Tgt Ion: 43 Resp: 240197

Ion Ratio Lower Upper

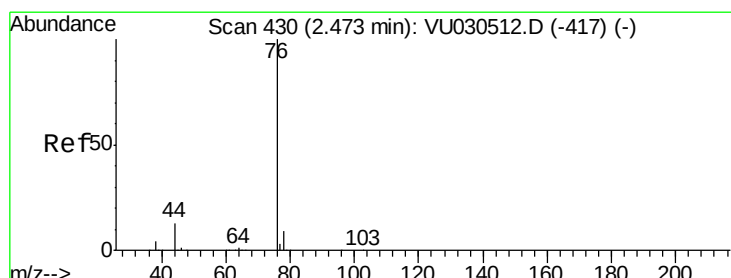
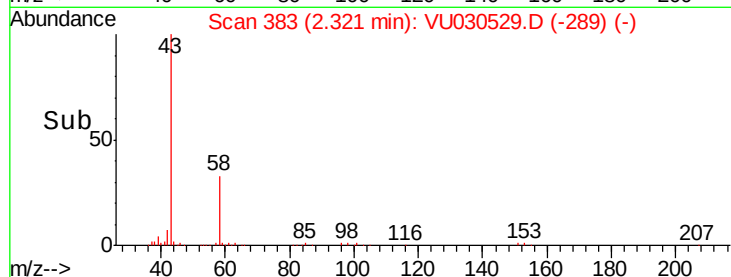
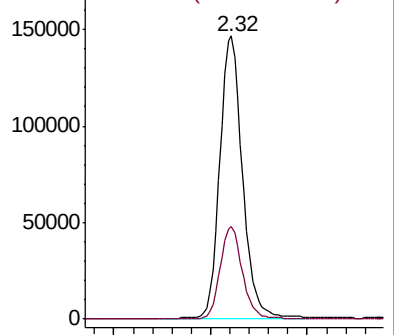
43 100

58 31.7 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030512.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VU030512.D (-371) (-)



#14

Carbon disulfide

Concen: 49.274 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030529.D

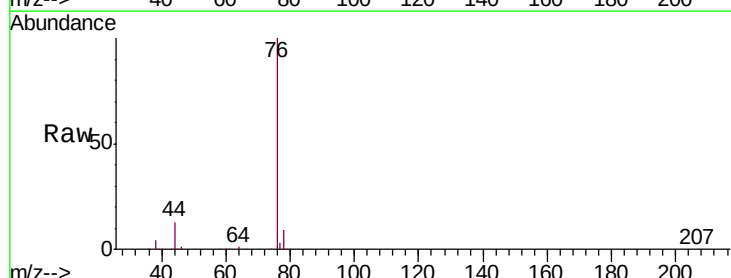
Acq: 28 Mar 2019 20:56

Tgt Ion: 76 Resp: 443209

Ion Ratio Lower Upper

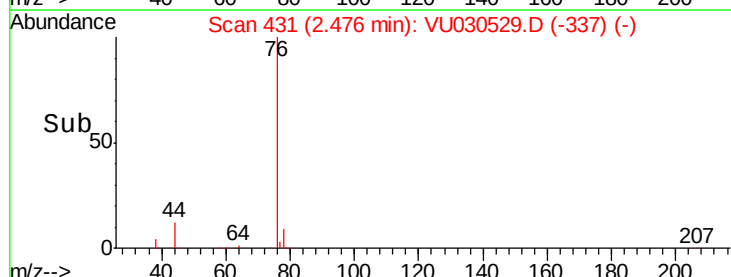
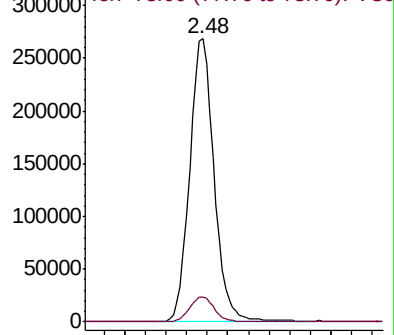
76 100

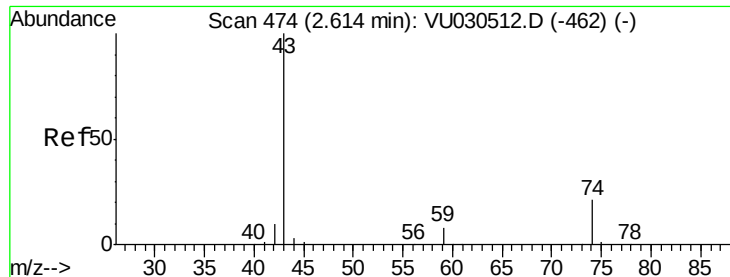
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030512.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU030512.D (-417) (-)

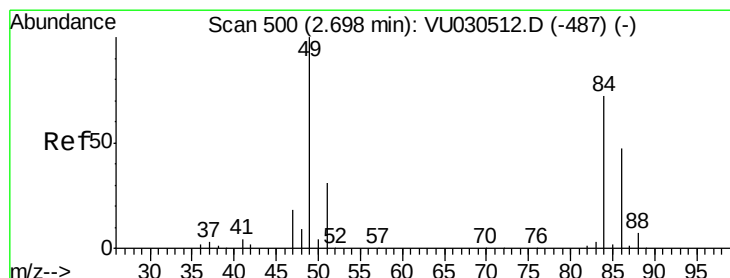
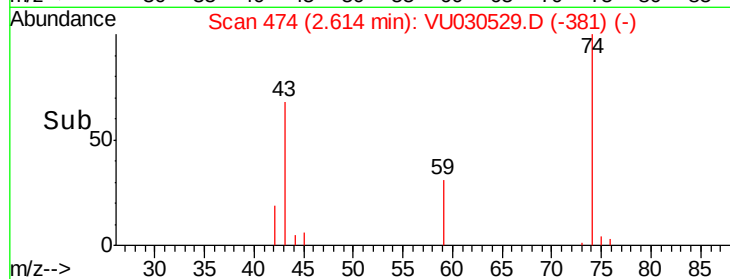
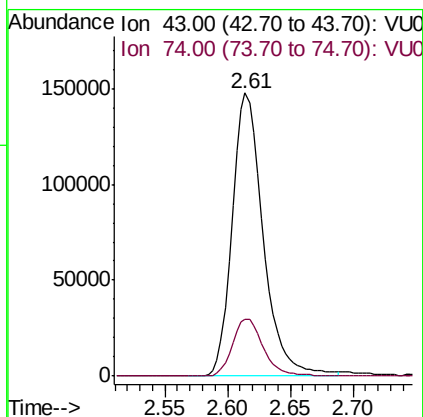
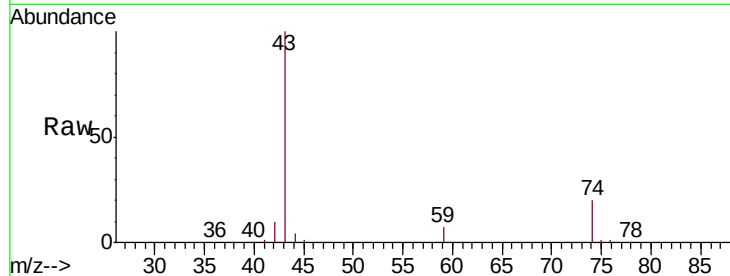




#15
Methyl Acetate
Concen: 56.702 ug/L
RT: 2.61 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

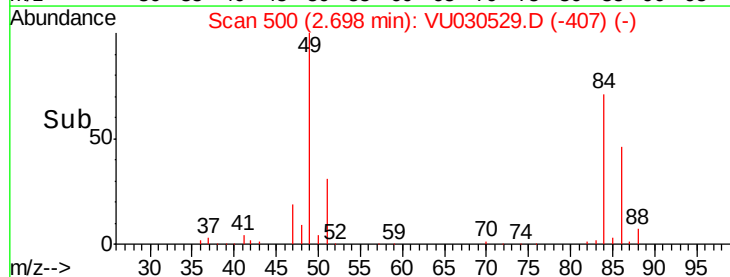
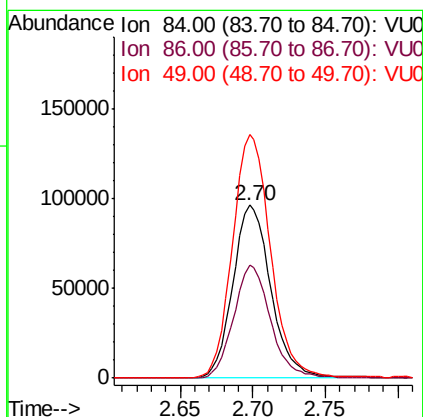
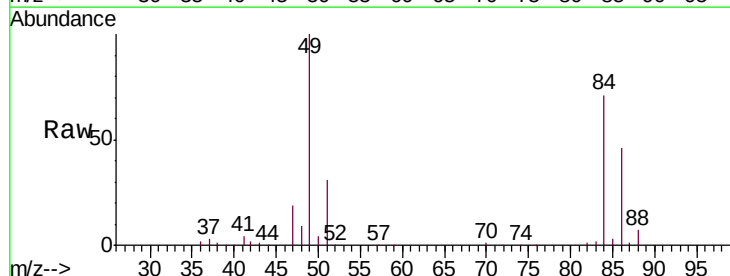
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

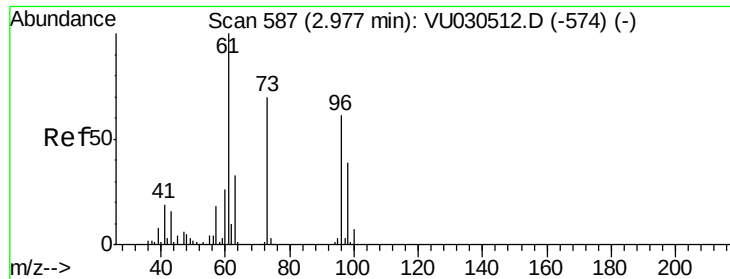
Tgt Ion: 43 Resp: 252571
Ion Ratio Lower Upper
43 100
74 20.5 0.0 0.0#



#16
Methylene chloride
Concen: 54.737 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Tgt Ion: 84 Resp: 175540
Ion Ratio Lower Upper
84 100
86 65.2 44.3 82.3
49 140.8 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 52.558 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

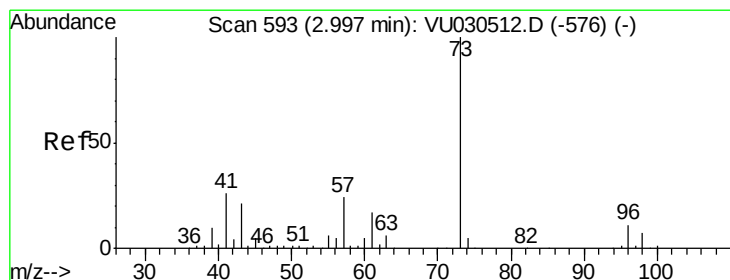
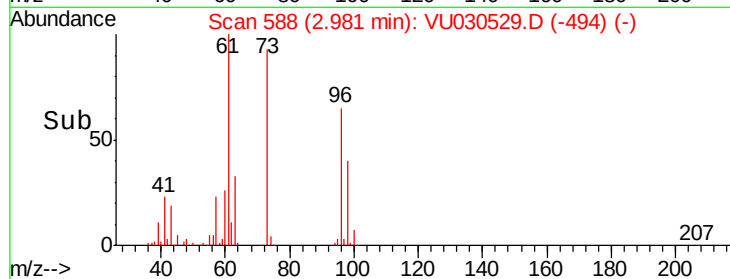
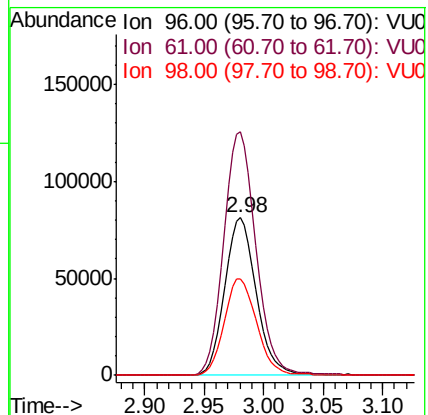
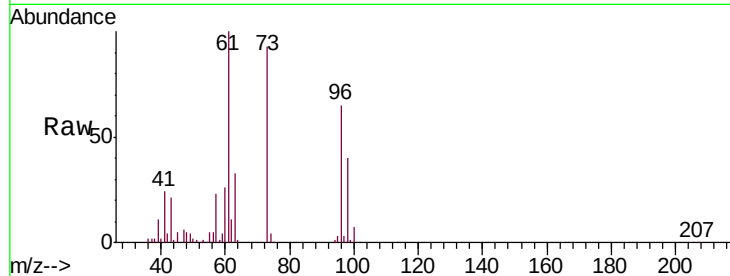
Tgt Ion: 96 Resp: 150003

Ion Ratio Lower Upper

96 100

61 154.4 108.6 201.8

98 61.4 42.3 78.5



#18

Methyl tert-butyl Ether

Concen: 56.013 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

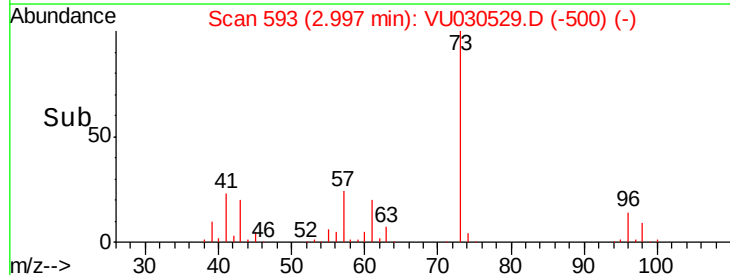
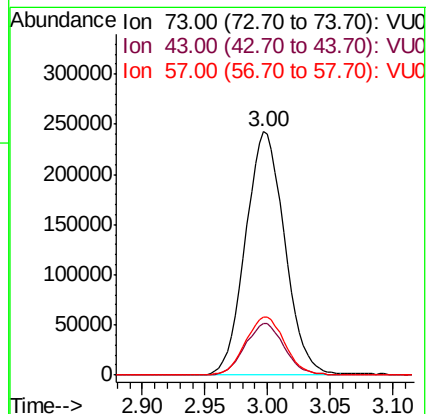
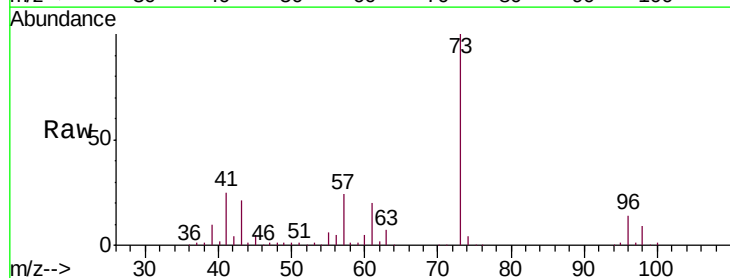
Tgt Ion: 73 Resp: 528666

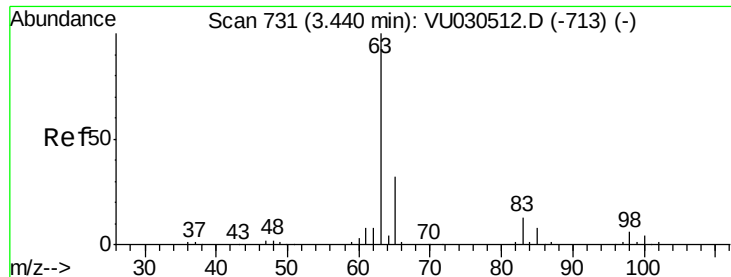
Ion Ratio Lower Upper

73 100

43 21.1 16.6 24.8

57 24.2 18.9 28.3

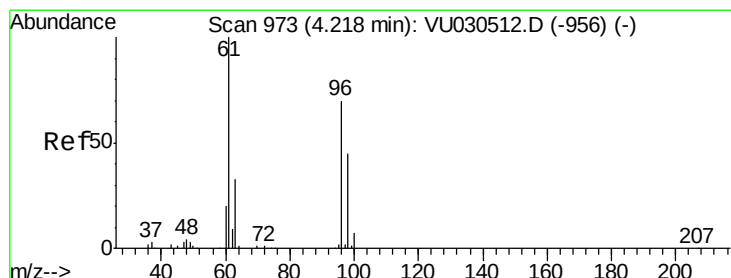
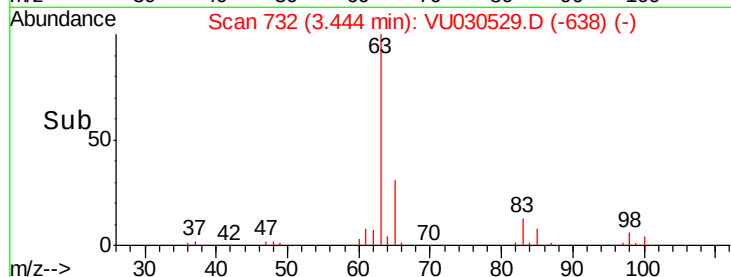
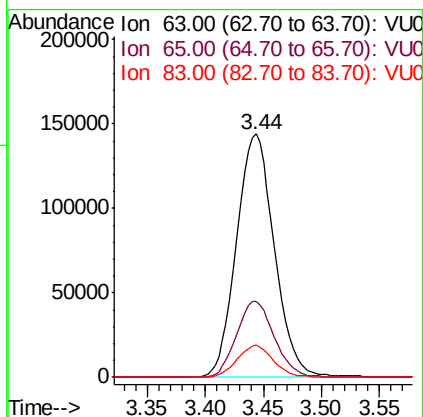
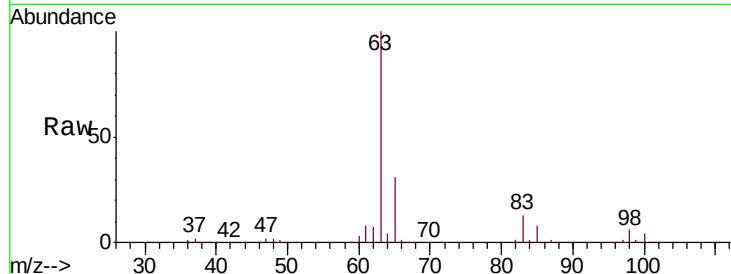




#19
 1,1-Dichloroethane
 Concen: 55.729 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

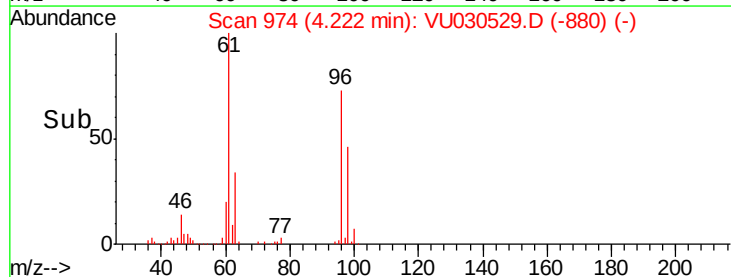
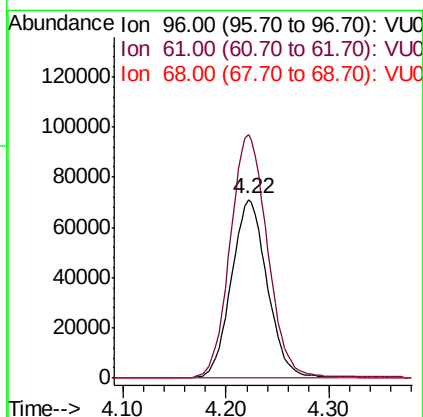
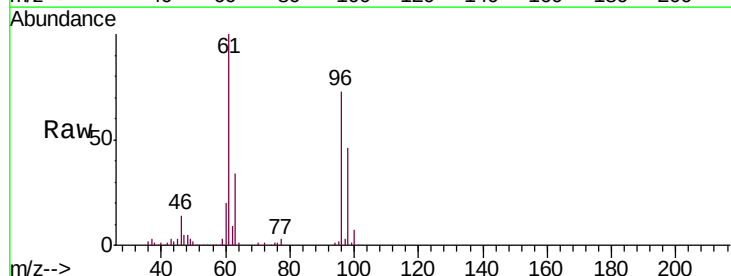
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

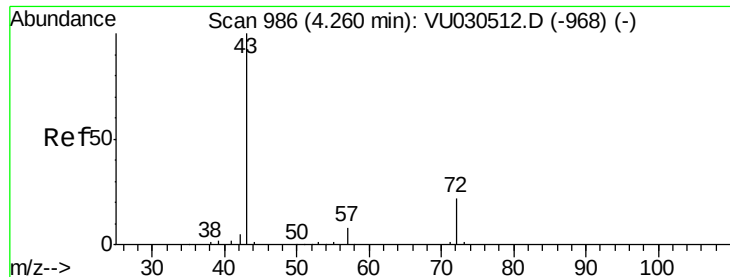
Tgt Ion: 63 Resp: 326318
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.0 40.8
 83 13.1 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 53.723 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion: 96 Resp: 171956
 Ion Ratio Lower Upper
 96 100
 61 136.1 98.4 182.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 104.431 ug/L

RT: 4.26 min Scan# 986

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

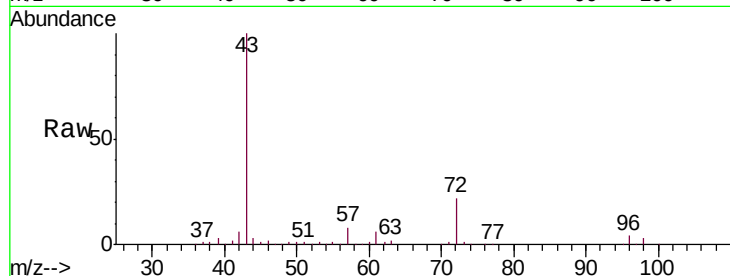
VSTD05039

Tgt Ion: 43 Resp: 367200

Ion Ratio Lower Upper

43 100

72 23.4 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030512.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU030512.D (-968) (-)

4.26

150000

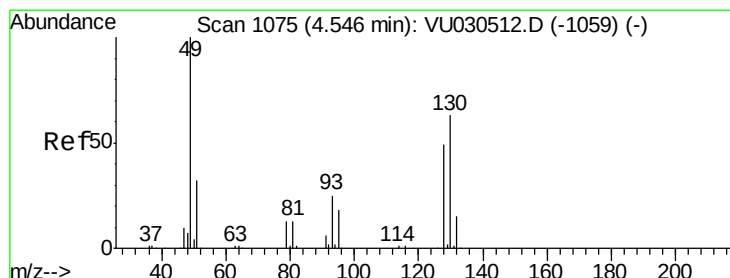
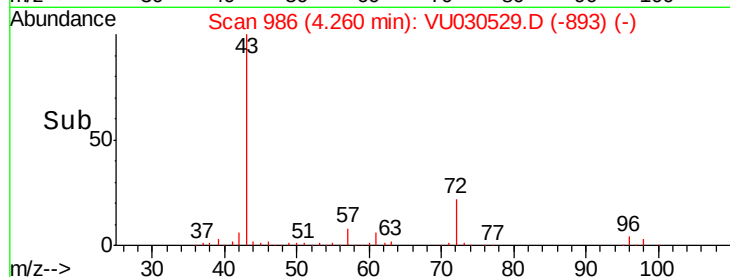
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 54.546 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Tgt Ion: 128 Resp: 81149

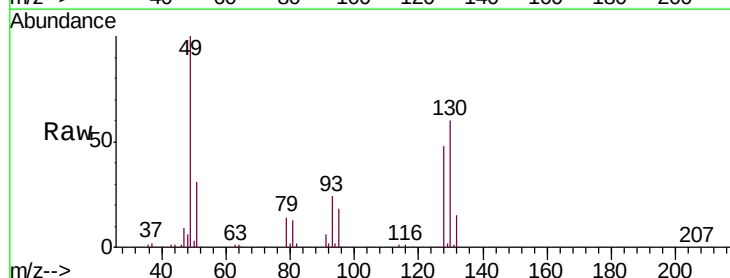
Ion Ratio Lower Upper

128 100

49 208.0 145.5 270.3

130 125.8 95.3 177.1

51 64.6 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030512.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030512.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030512.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030512.D (-1059) (-)

100000

80000

60000

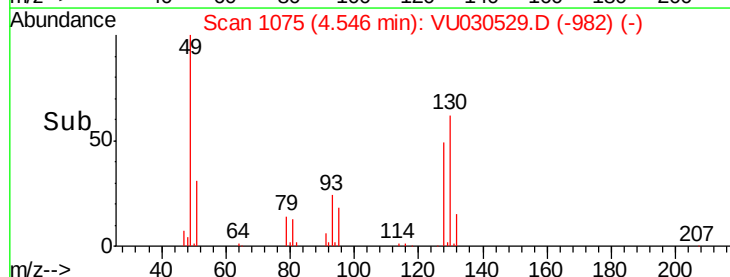
40000

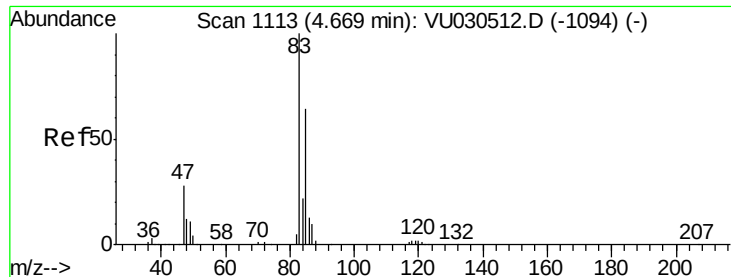
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 55.504 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

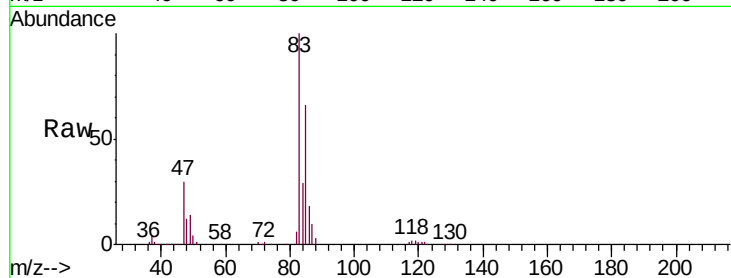
VSTD05039

Tgt Ion: 83 Resp: 309003

Ion Ratio Lower Upper

83 100

85 66.3 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030512.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU030512.D (-1094) (-)

4.67

150000

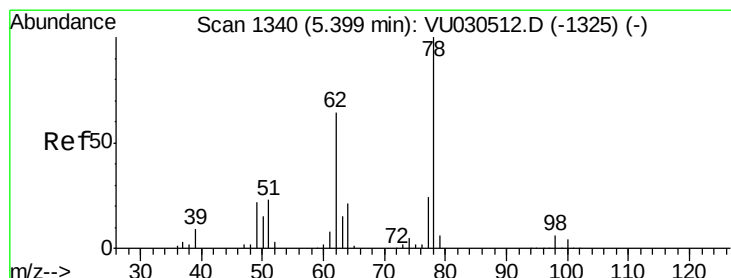
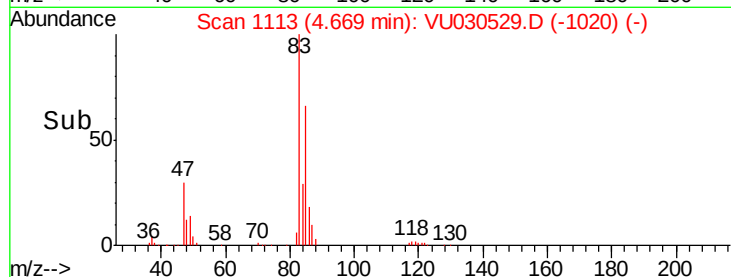
100000

50000

0

4.60 4.65 4.70 4.75

Time-->



#27

1,2-Dichloroethane

Concen: 57.088 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030529.D

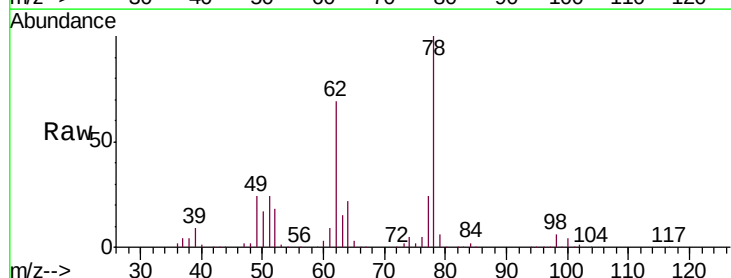
Acq: 28 Mar 2019 20:56

Tgt Ion: 62 Resp: 249392

Ion Ratio Lower Upper

62 100

98 8.7 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU030512.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU030512.D (-1325) (-)

5.40

120000

100000

80000

60000

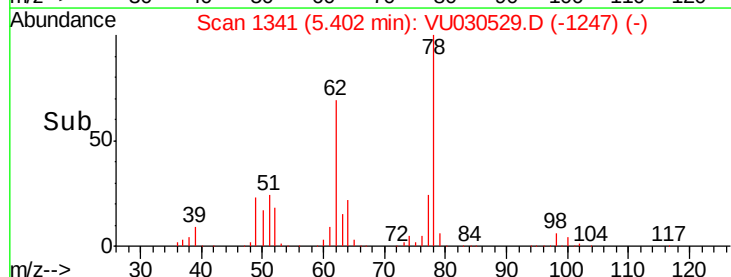
40000

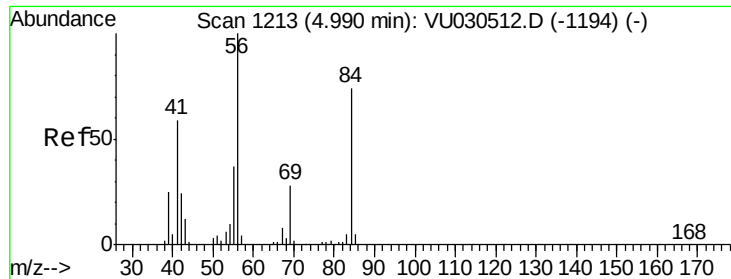
20000

0

5.30 5.40 5.50

Time-->

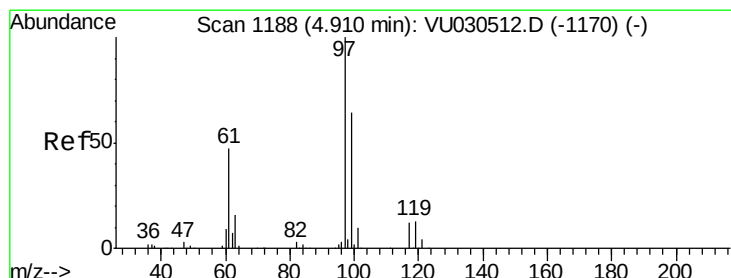
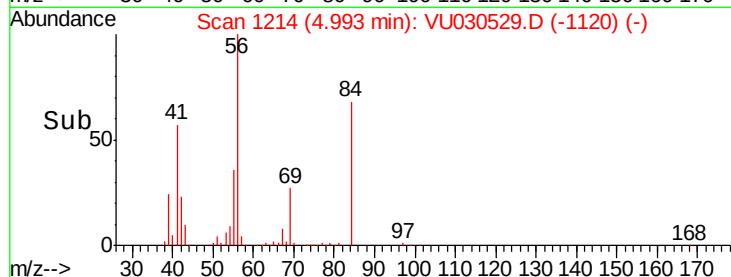
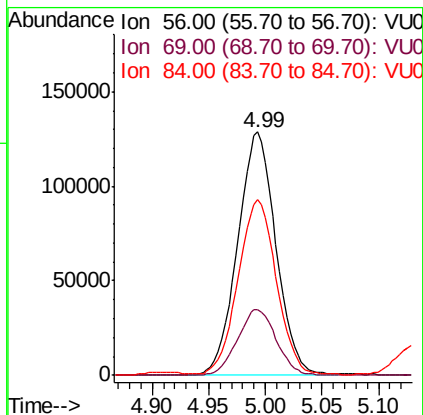
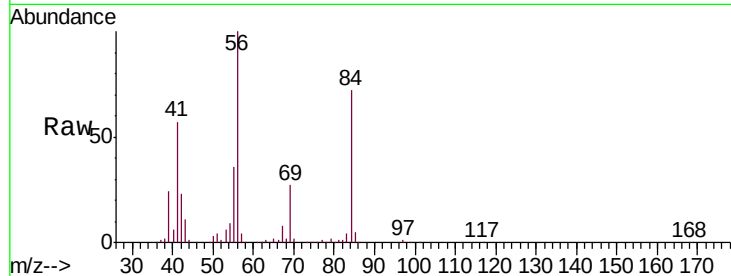




#29
Cyclohexane
Concen: 54.520 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

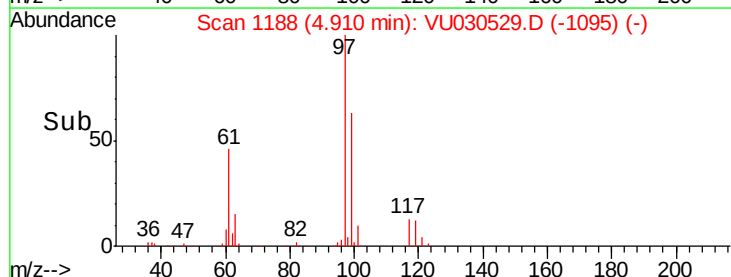
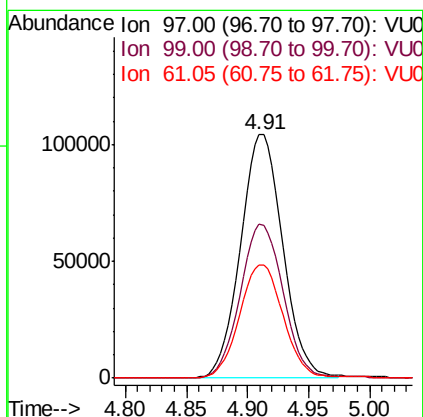
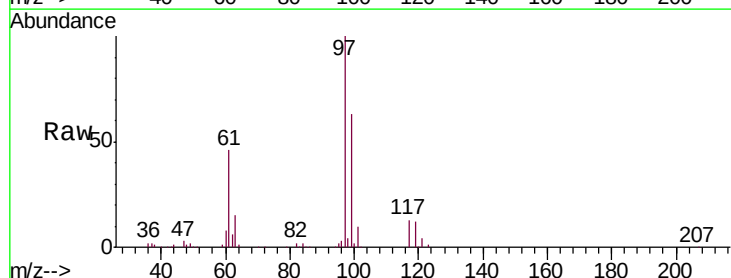
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

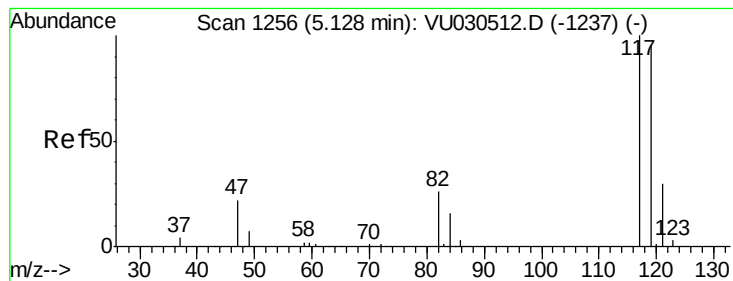
Tgt Ion	Ratio	Lower	Upper
56	100		
69	27.5	22.9	34.3
84	71.5	58.9	88.3



#30
1,1,1-Trichloroethane
Concen: 55.587 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	47.8	38.2	57.4





#31

Carbon tetrachloride

Concen: 54.544 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

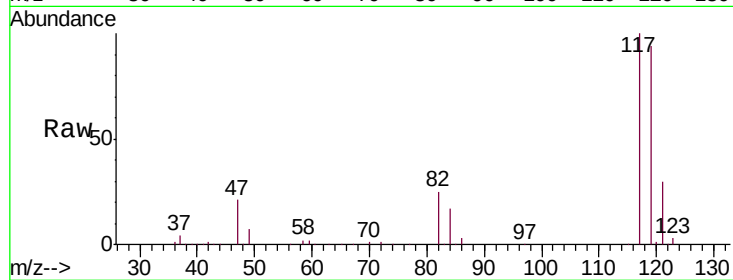
VSTD05039

Tgt Ion:117 Resp: 208262

Ion Ratio Lower Upper

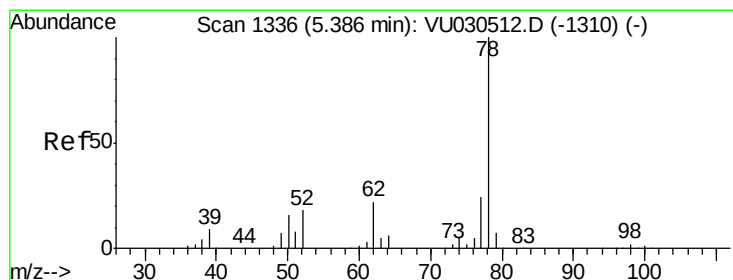
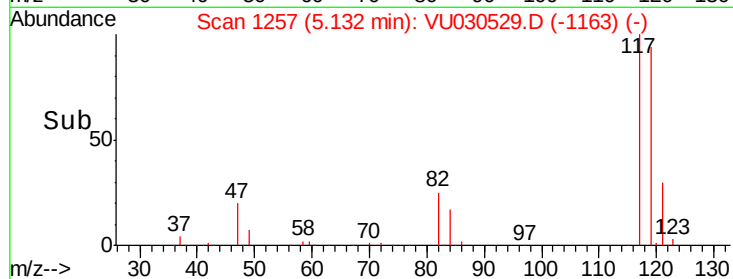
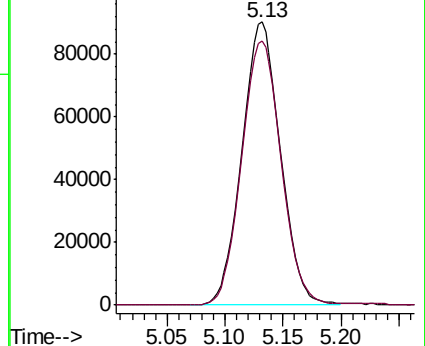
117 100

119 96.2 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: 54.436 ug/L

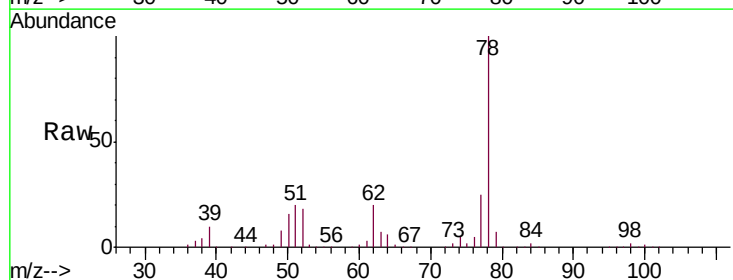
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

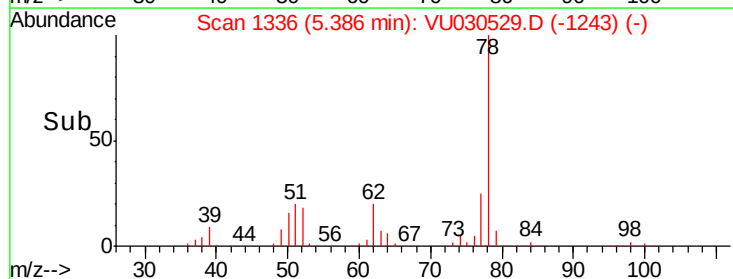
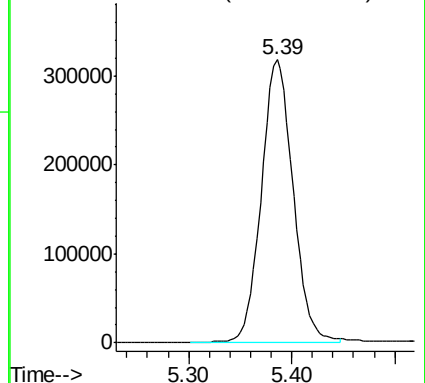
Lab File: VU030529.D

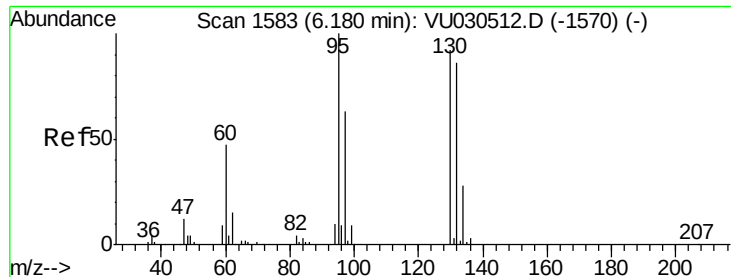
Acq: 28 Mar 2019 20:56

Tgt Ion: 78 Resp: 681738



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.014 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

Tgt Ion: 95 Resp: 160135

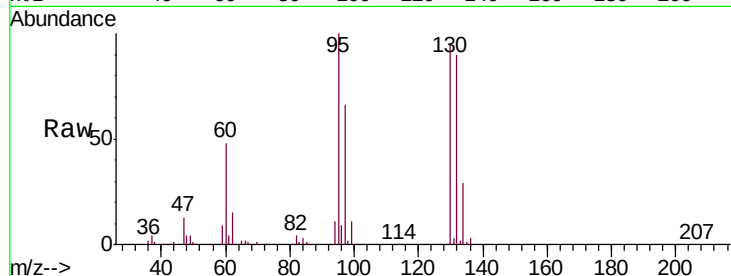
Ion Ratio Lower Upper

95 100

97 65.7 45.7 84.9

132 89.7 63.8 118.4

130 95.3 65.7 121.9

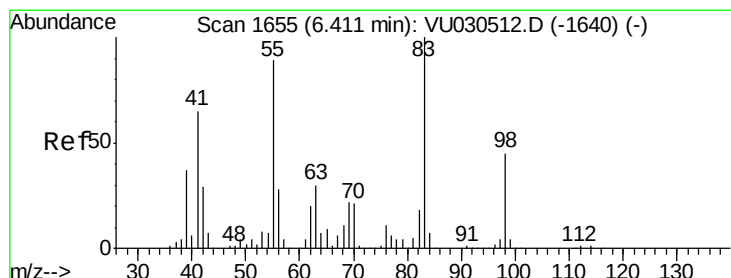
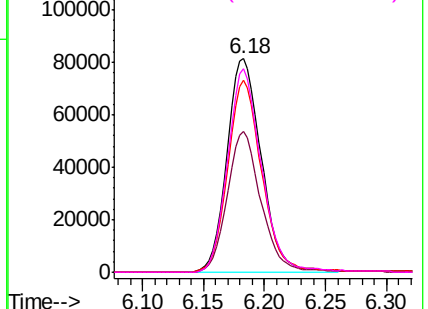
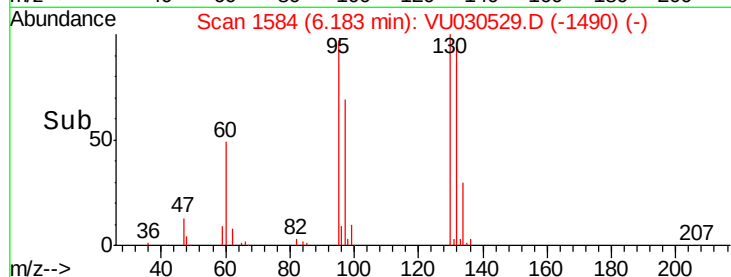


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.843 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

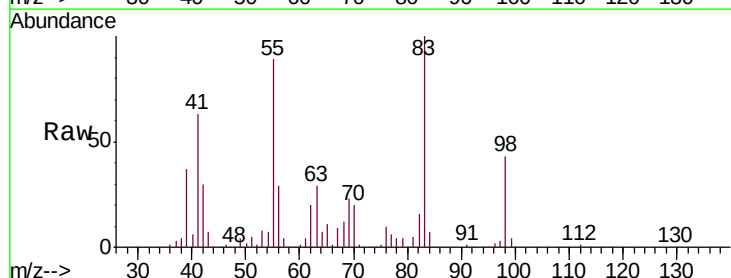
Tgt Ion: 83 Resp: 262650

Ion Ratio Lower Upper

83 100

55 88.9 71.4 107.0

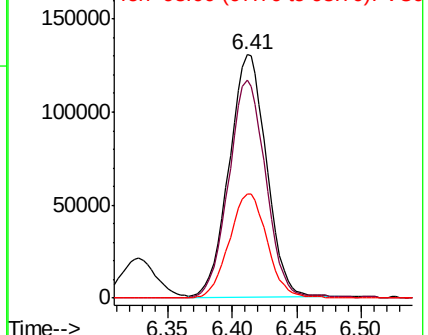
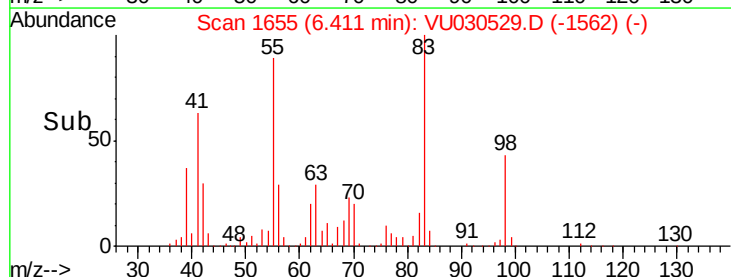
98 43.9 36.0 54.0

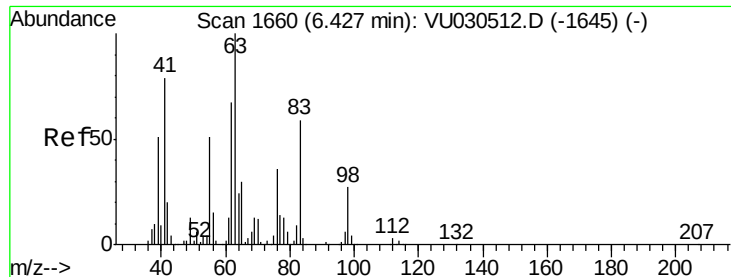


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

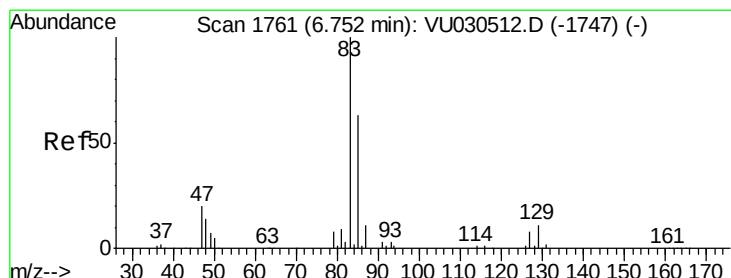
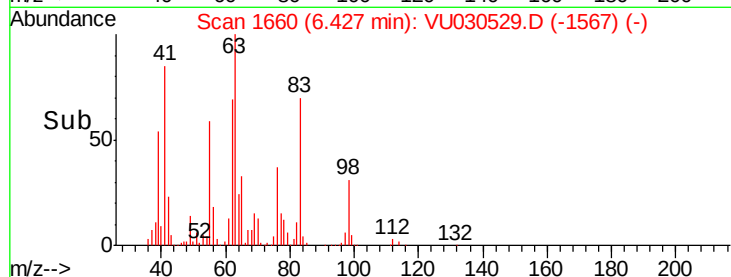
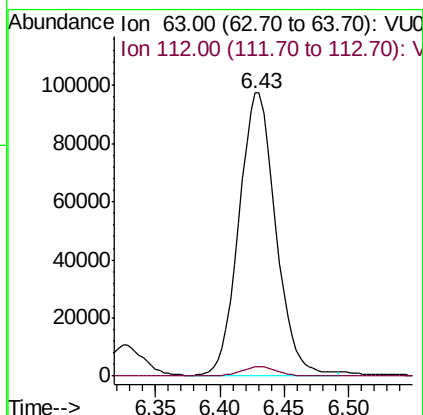
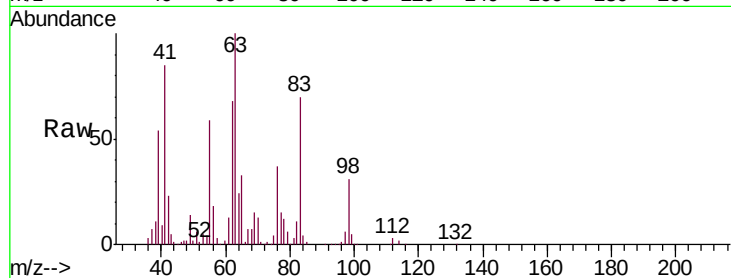




#37
 1,2-Dichloropropane
 Concen: 54.420 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

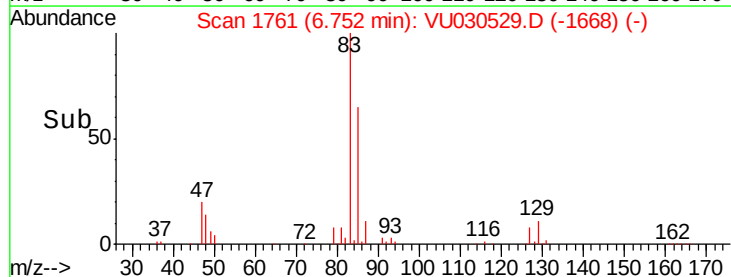
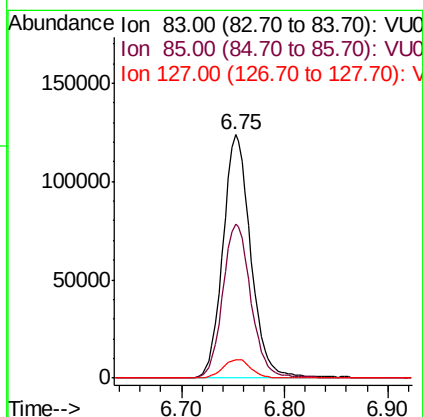
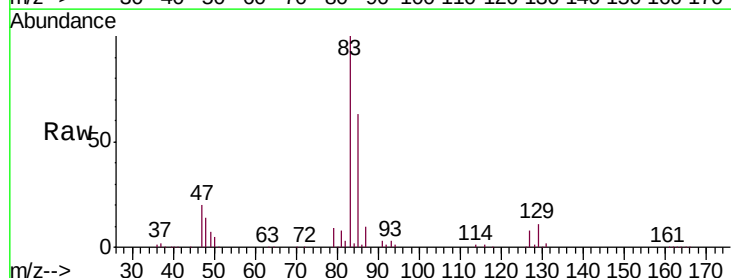
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

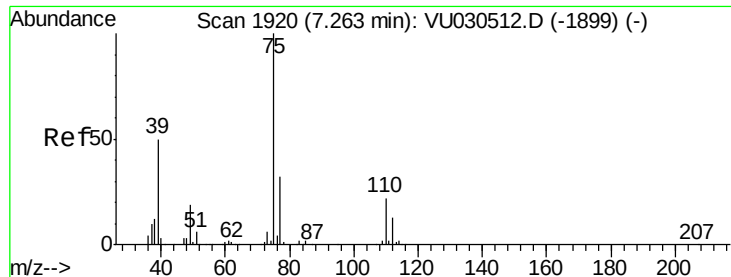
Tgt Ion: 63 Resp: 193412
 Ion Ratio Lower Upper
 63 100
 112 3.3 2.6 4.0



#38
 Bromodichloromethane
 Concen: 55.211 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion: 83 Resp: 233154
 Ion Ratio Lower Upper
 83 100
 85 63.4 45.0 83.6
 127 7.6 6.6 10.0



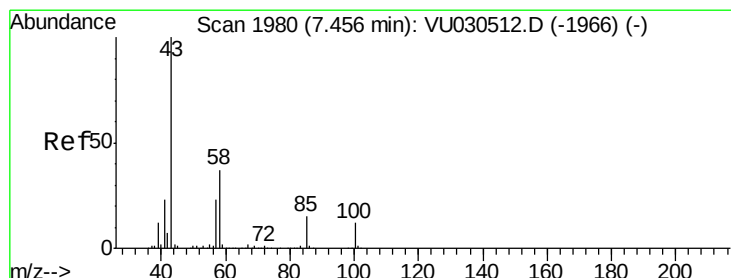
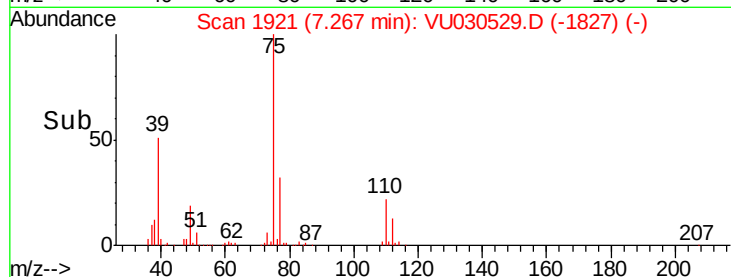
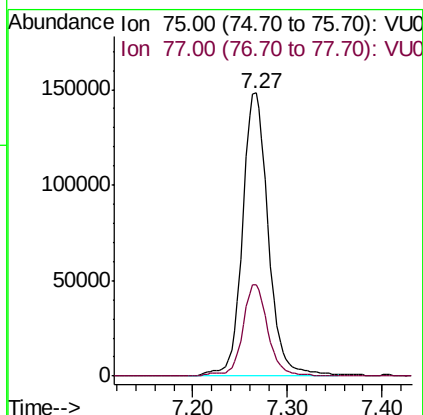
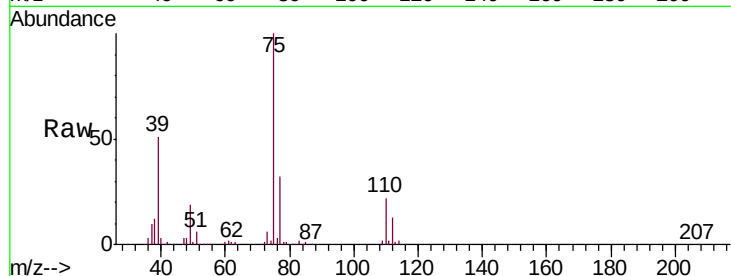


#39

cis-1,3-Dichloropropene
Concen: 55.179 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

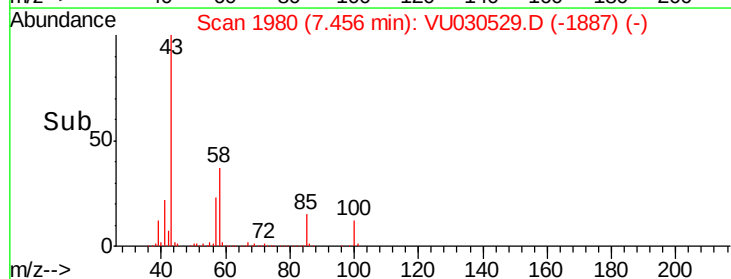
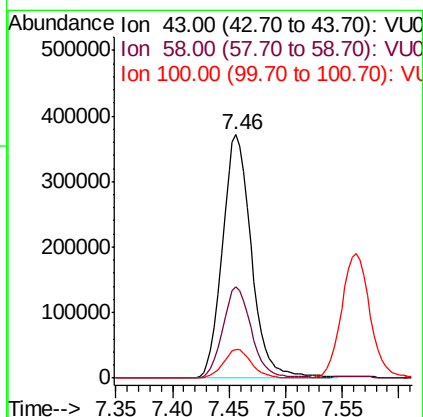
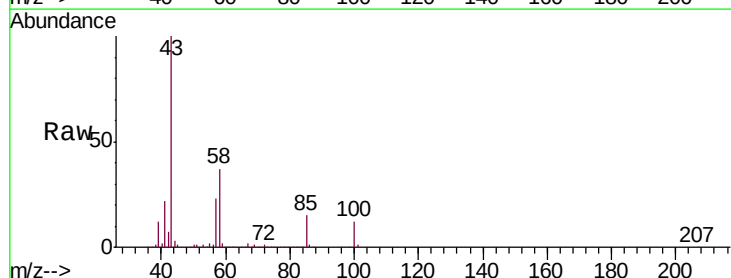
Tgt Ion: 75 Resp: 281883
Ion Ratio Lower Upper
75 100
77 32.4 21.8 40.6

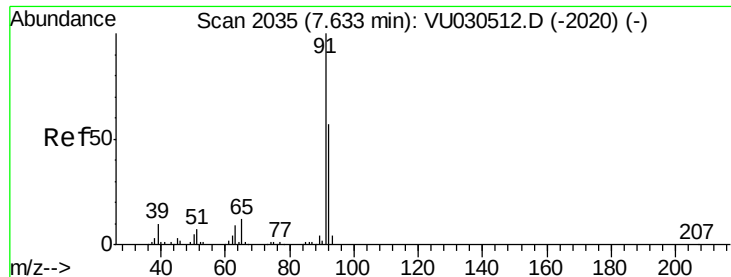


#40

4-Methyl-2-pentanone
Concen: 111.248 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Tgt Ion: 43 Resp: 664126
Ion Ratio Lower Upper
43 100
58 37.0 30.6 45.8
100 11.6 9.5 14.3





#42

Toluene

Concen: 54.762 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

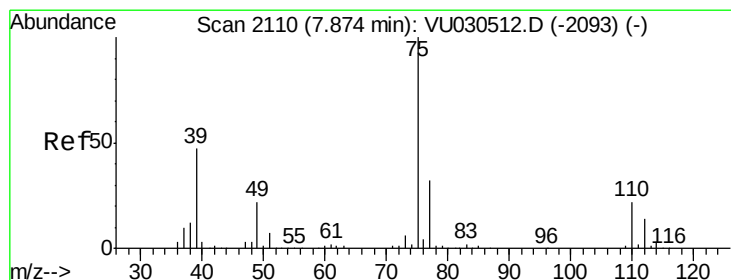
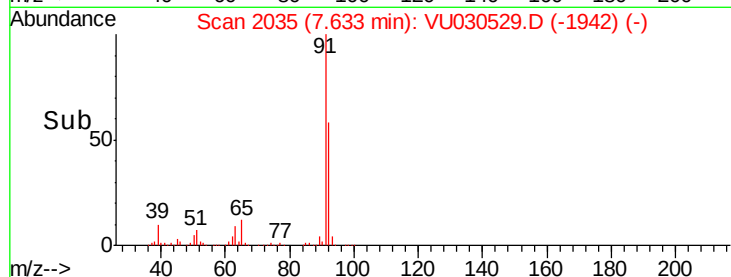
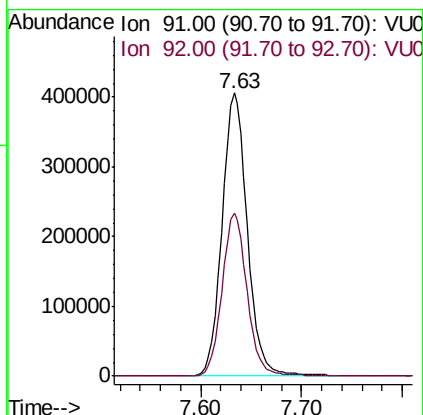
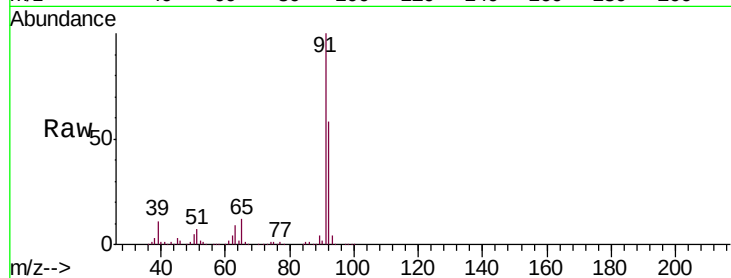
VSTD05039

Tgt Ion: 91 Resp: 711769

Ion Ratio Lower Upper

91 100

92 57.7 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 54.661 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030529.D

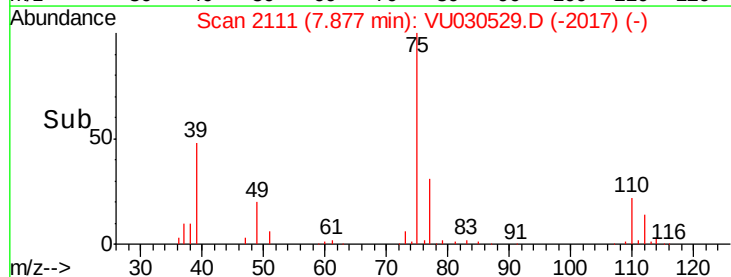
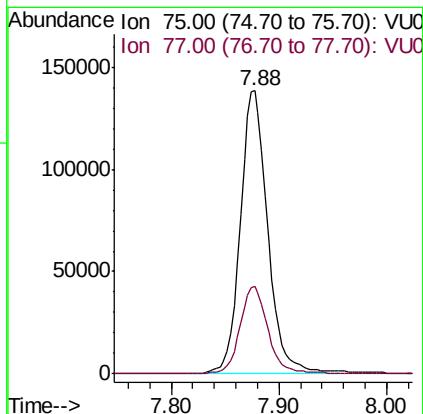
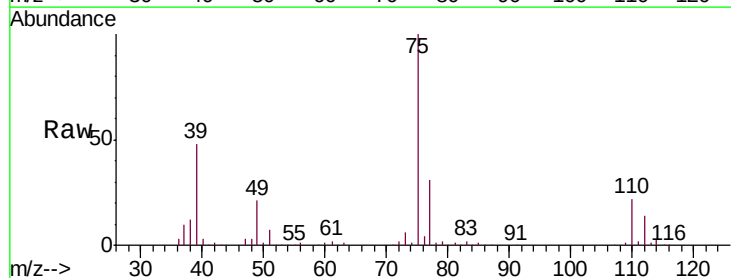
Acq: 28 Mar 2019 20:56

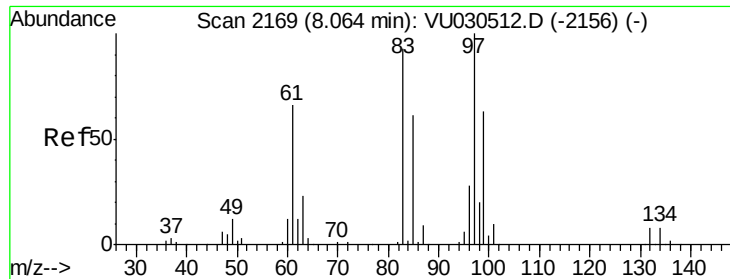
Tgt Ion: 75 Resp: 245694

Ion Ratio Lower Upper

75 100

77 31.0 22.0 40.8

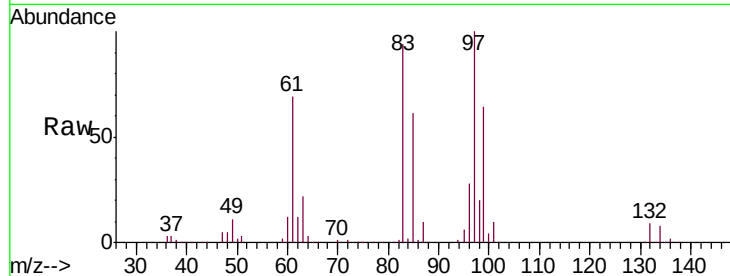




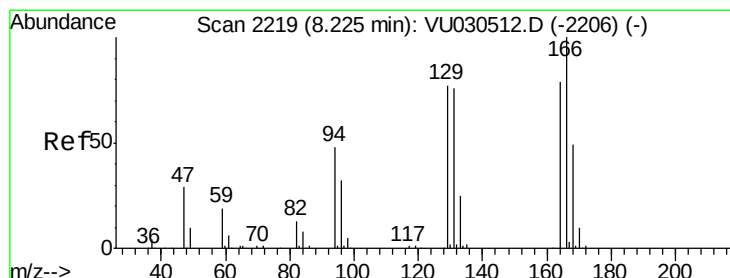
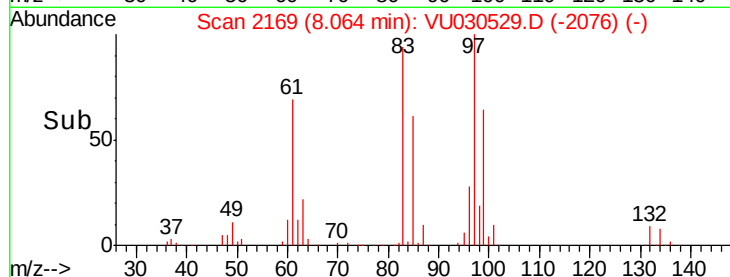
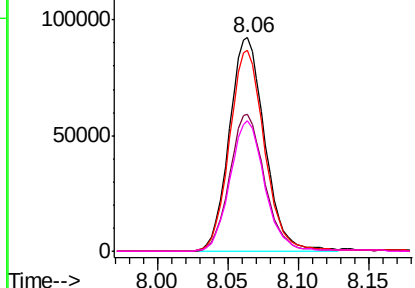
#45
 1,1,2-Trichloroethane
 Concen: 54.228 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion:	97	Resp:	162844
Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.0	81.8
83	94.3	65.3	121.3
85	61.1	41.8	77.6

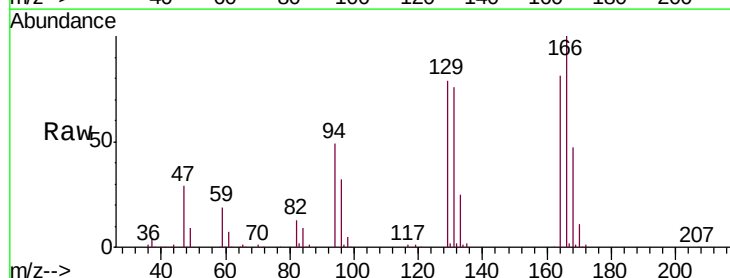


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

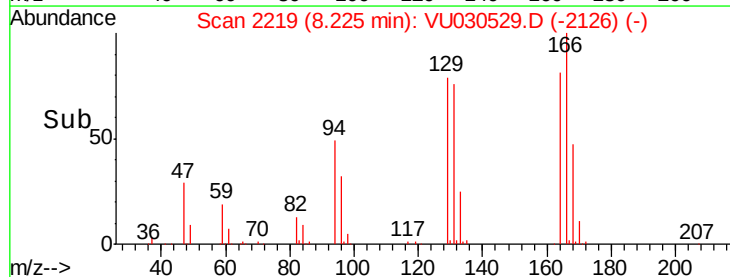
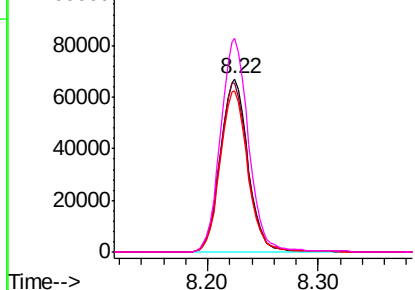


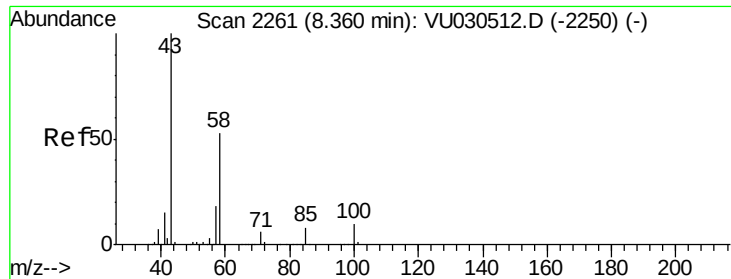
#46
 Tetrachloroethene
 Concen: 54.133 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion:	164	Resp:	116405
Ion	Ratio	Lower	Upper
164	100		
129	97.8	68.1	126.5
131	93.4	67.7	125.7
166	123.5	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

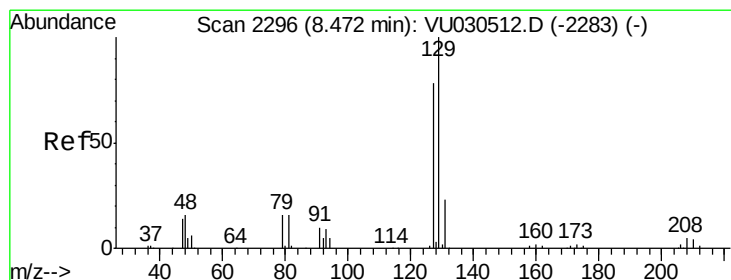
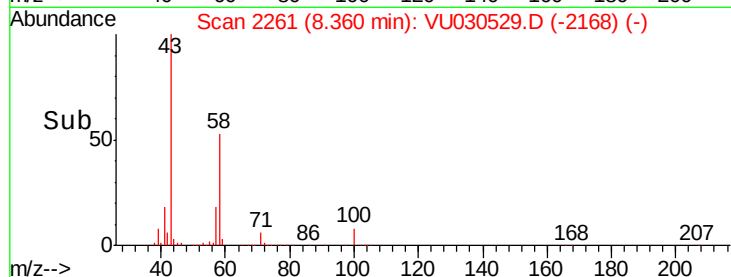
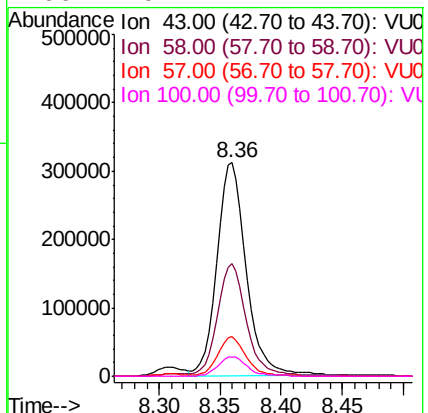
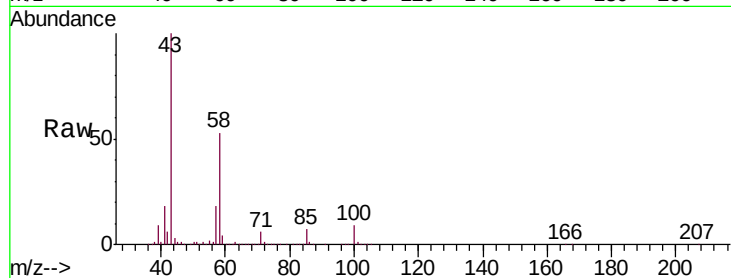




#48
2-Hexanone
Concen: 107.319 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

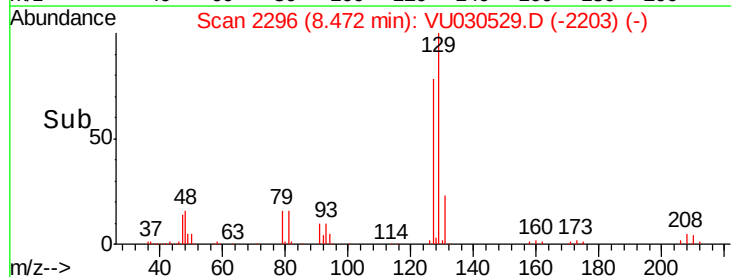
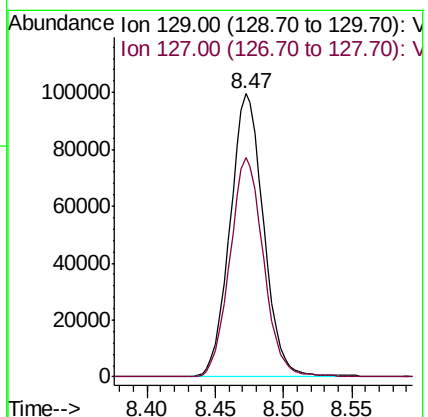
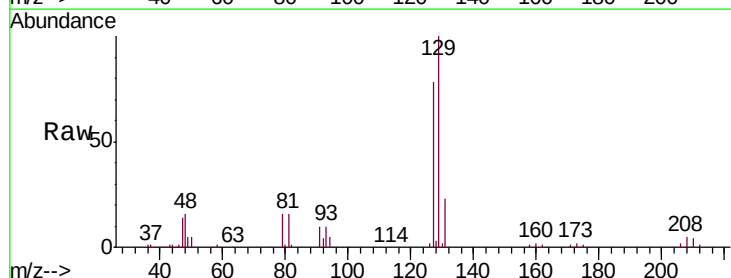
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

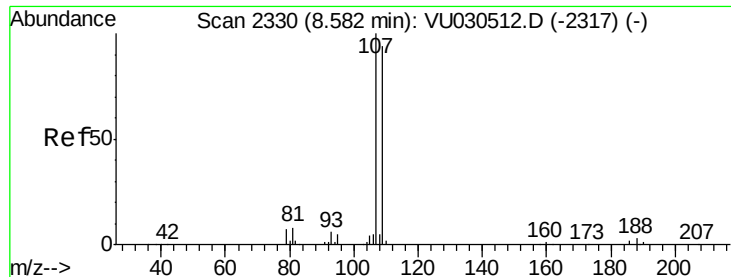
Tgt Ion: 43 Resp: 525089
Ion Ratio Lower Upper
43 100
58 52.1 42.5 63.7
57 17.1 15.0 22.6
100 9.2 7.4 11.2



#49
Dibromochloromethane
Concen: 54.530 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Tgt Ion: 129 Resp: 170150
Ion Ratio Lower Upper
129 100
127 77.5 53.2 98.8

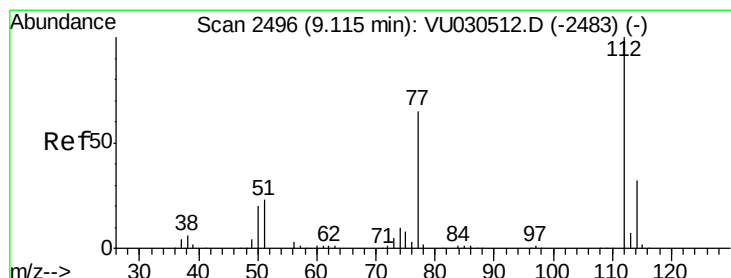
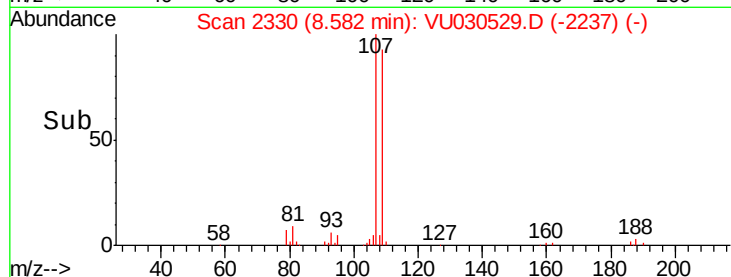
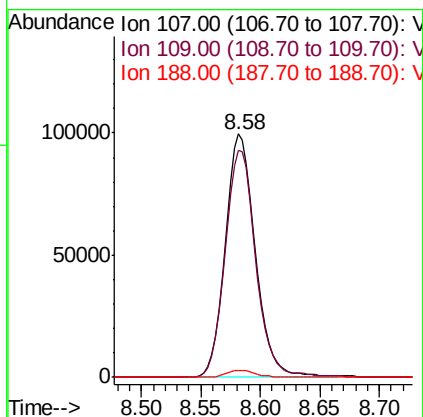
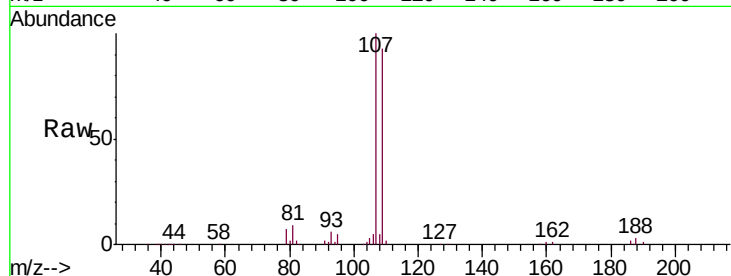




#50
1,2-Dibromoethane
Concen: 54.123 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

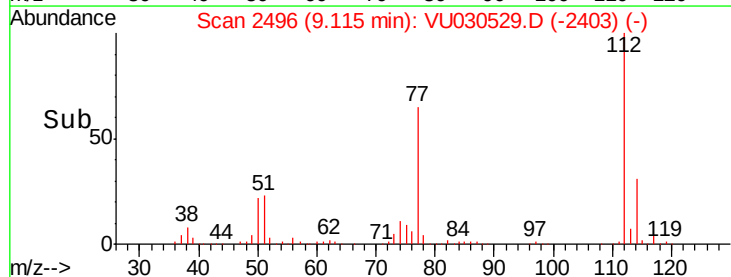
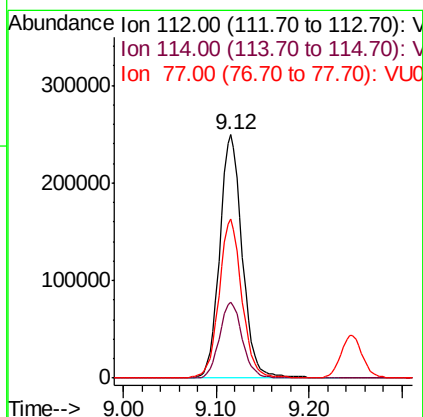
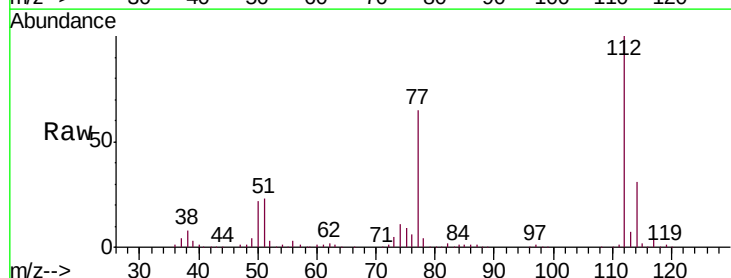
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

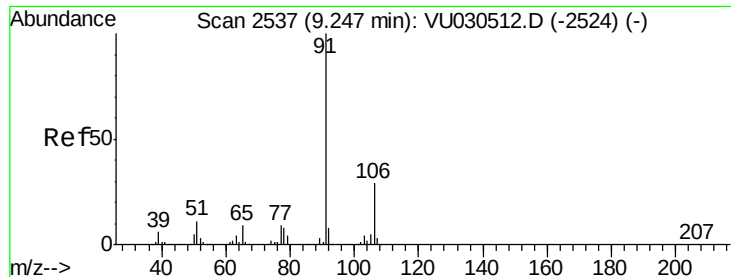
Tgt Ion:107 Resp: 174429
Ion Ratio Lower Upper
107 100
109 93.0 65.8 122.2
188 3.0 2.6 4.0



#51
Chlorobenzene
Concen: 53.351 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU030529.D
Acq: 28 Mar 2019 20:56

Tgt Ion:112 Resp: 420264
Ion Ratio Lower Upper
112 100
114 31.4 21.5 39.9
77 65.2 51.4 77.0





#52

Ethylbenzene

Concen: 54.625 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

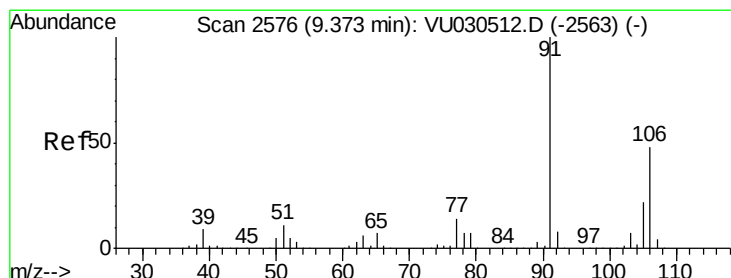
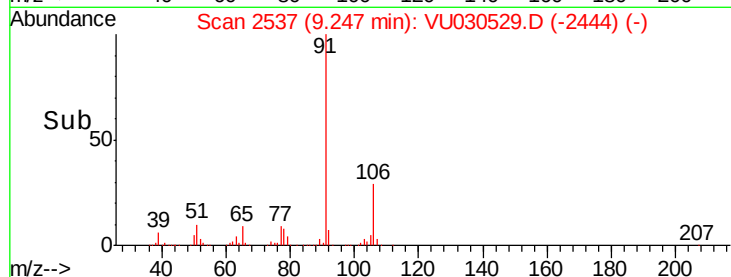
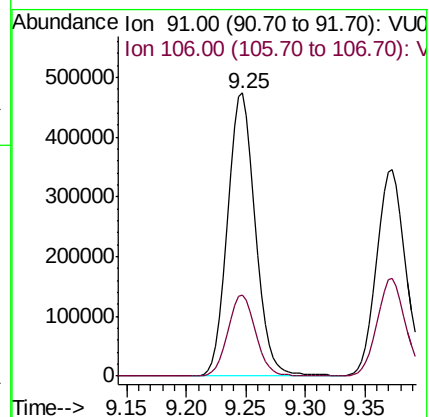
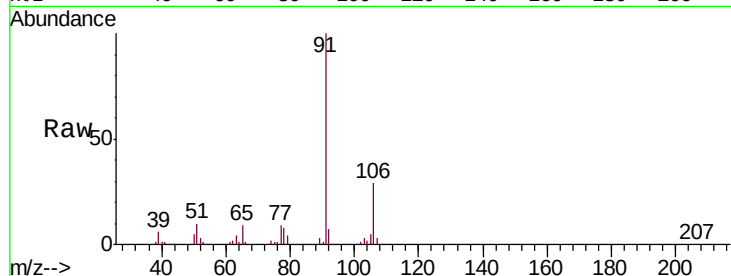
VSTD05039

Tgt Ion: 91 Resp: 769109

Ion Ratio Lower Upper

91 100

106 28.8 20.6 38.2



#53

m,p-Xylene

Concen: 54.091 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU030529.D

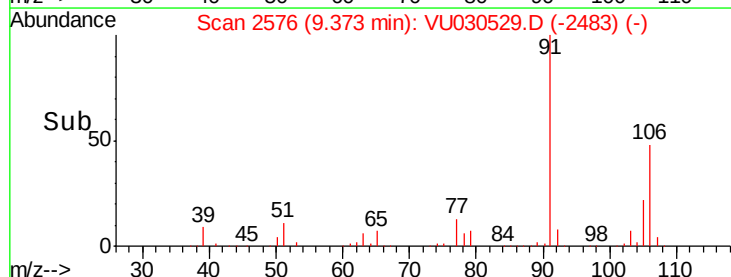
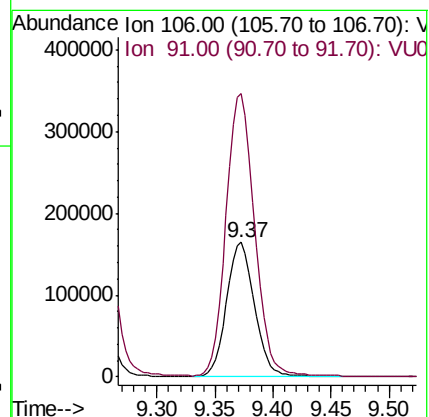
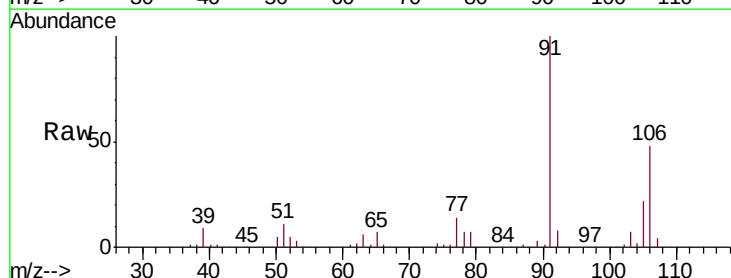
Acq: 28 Mar 2019 20:56

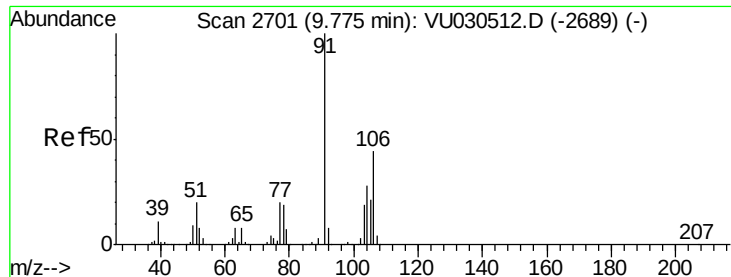
Tgt Ion: 106 Resp: 274991

Ion Ratio Lower Upper

106 100

91 210.3 151.2 280.8





#54

o-xylene

Concen: 55.980 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

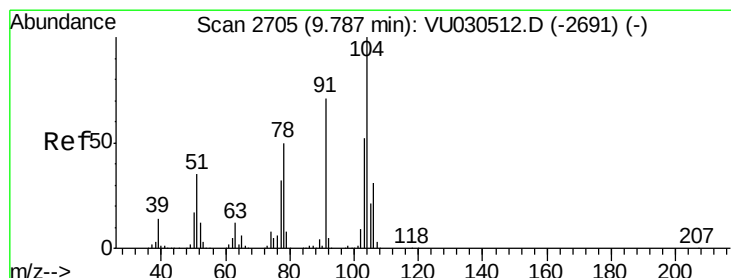
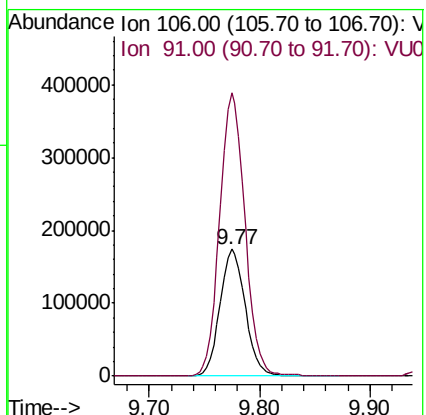
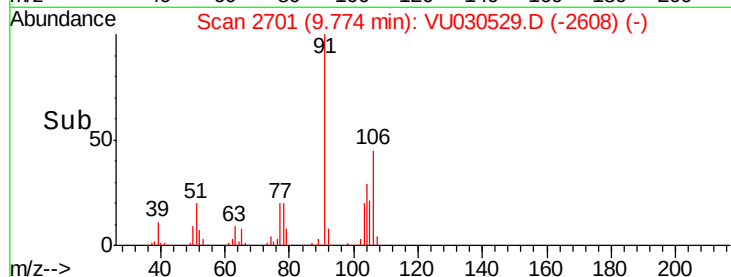
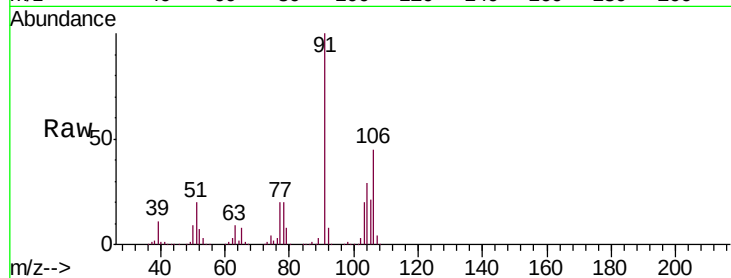
VSTD05039

Tgt Ion:106 Resp: 277691

Ion Ratio Lower Upper

106 100

91 223.0 159.6 296.4



#55

Styrene

Concen: 55.156 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030529.D

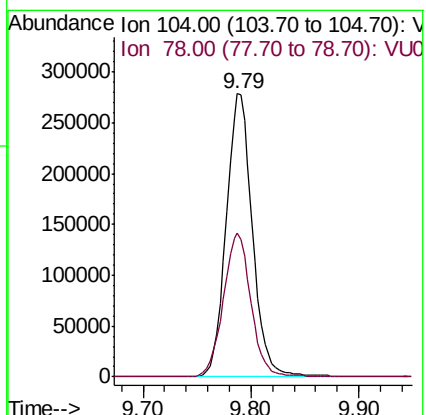
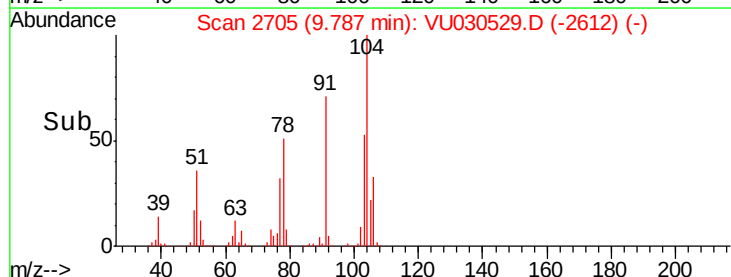
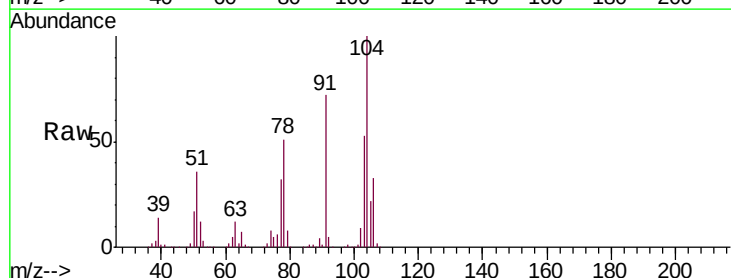
Acq: 28 Mar 2019 20:56

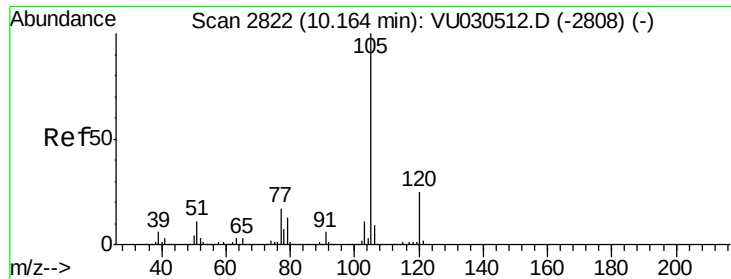
Tgt Ion:104 Resp: 471301

Ion Ratio Lower Upper

104 100

78 50.7 35.1 65.3





#56

Isopropylbenzene

Concen: 54.484 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

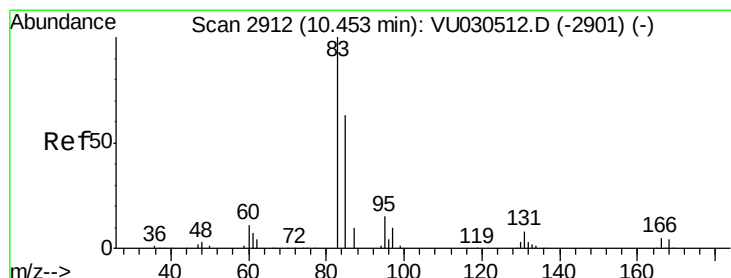
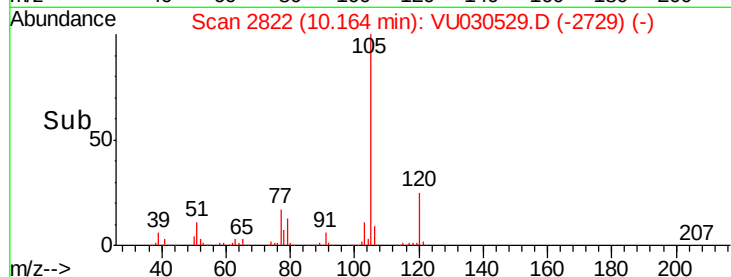
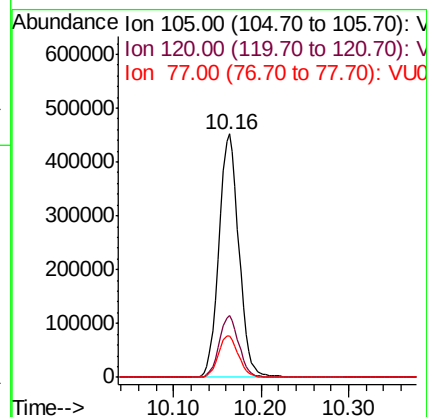
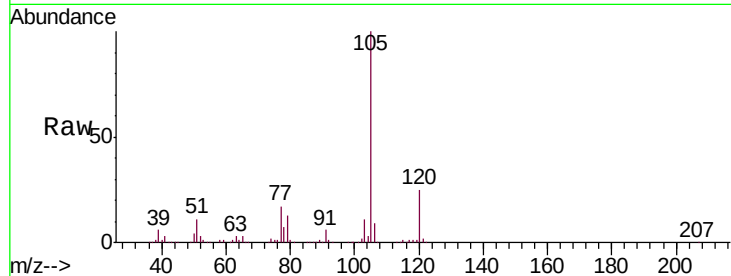
Tgt Ion: 105 Resp: 715635

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.2

77 17.2 13.2 19.8



#58

1,1,2,2-Tetrachloroethane

Concen: 54.947 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

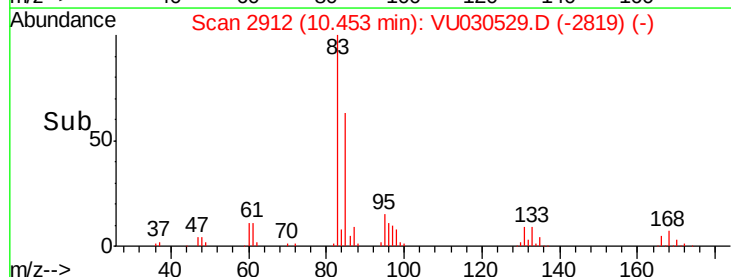
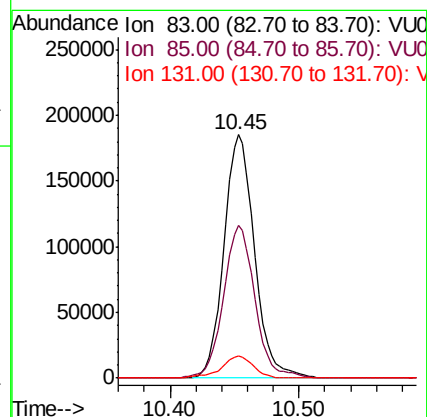
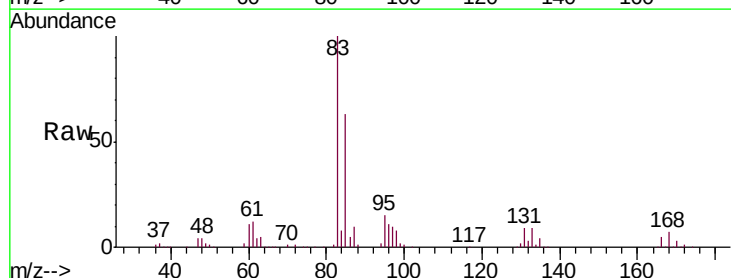
Tgt Ion: 83 Resp: 304107

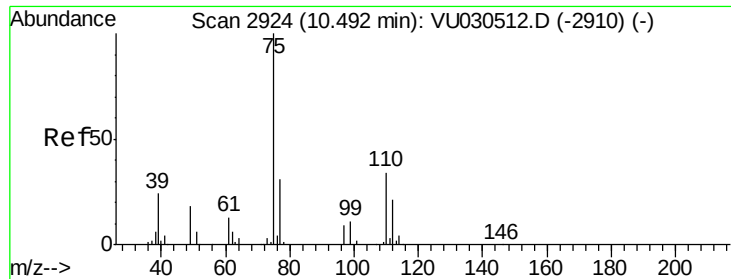
Ion Ratio Lower Upper

83 100

85 62.9 44.3 82.3

131 9.0 6.7 10.1

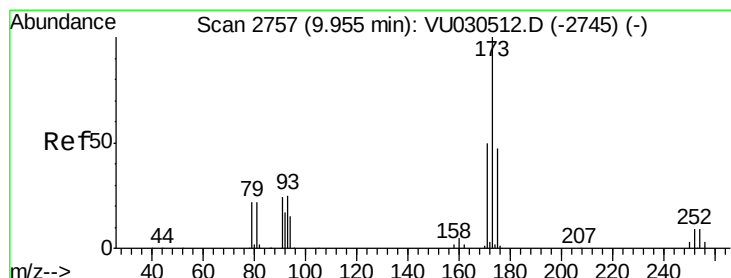
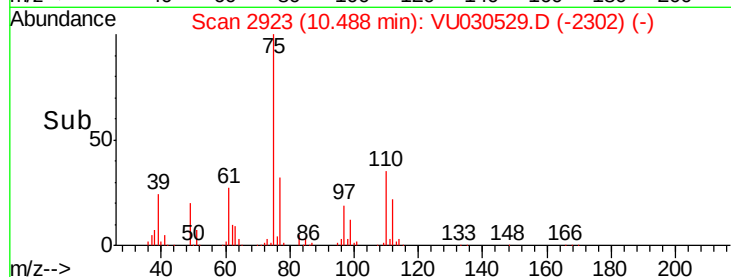
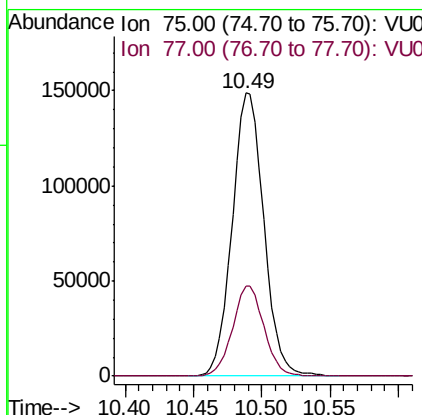
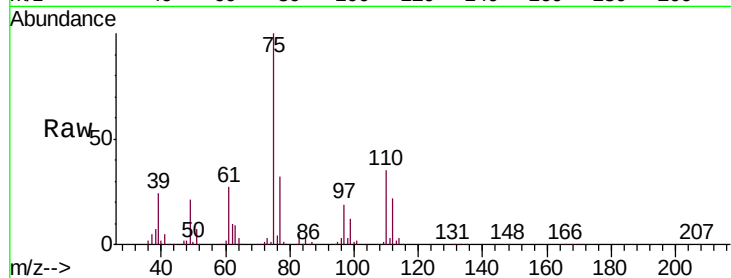




#59
 1,2,3-Trichloropropane
 Concen: 55.485 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

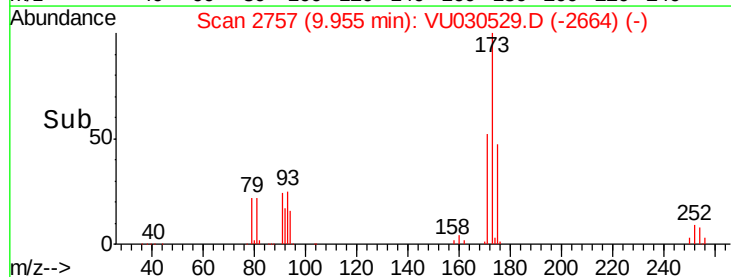
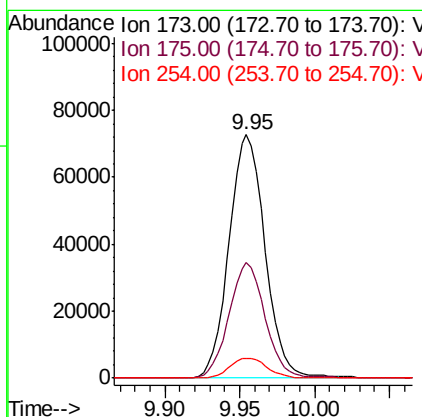
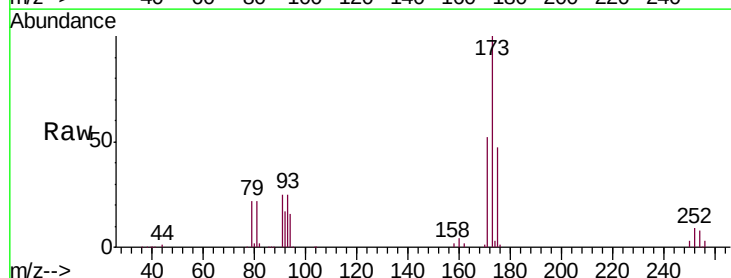
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

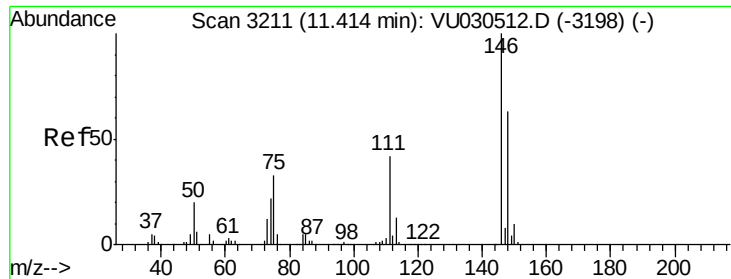
Tgt Ion: 75 Resp: 240028
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.4 38.2



#61
 Bromoform
 Concen: 53.440 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion: 173 Resp: 121949
 Ion Ratio Lower Upper
 173 100
 175 47.2 38.5 57.7
 254 8.6 6.8 10.2

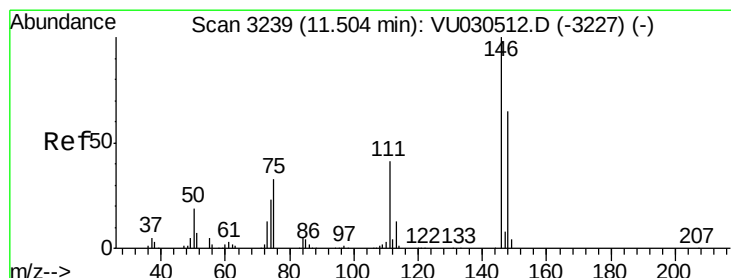
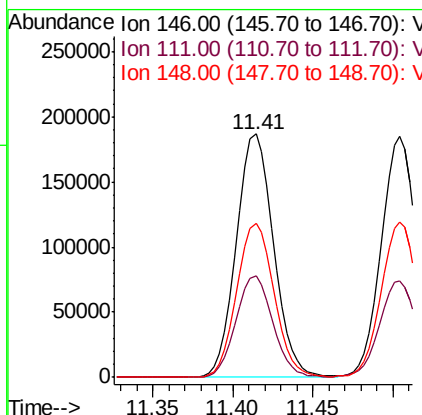
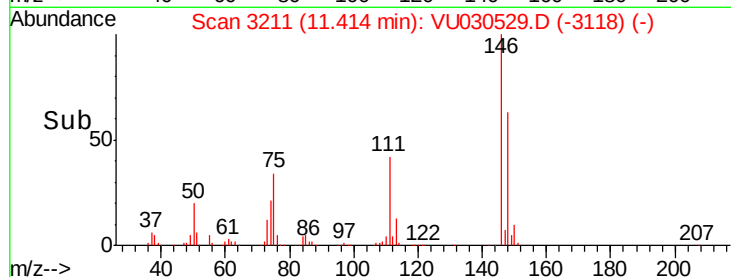
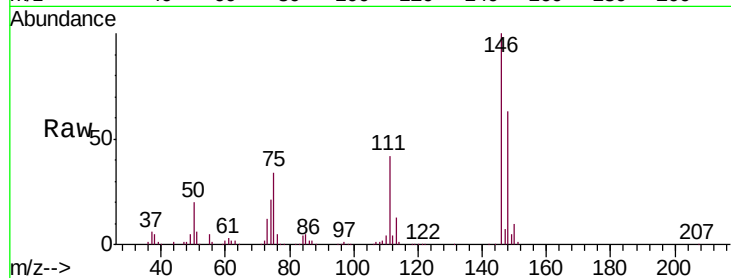




#62
 1,3-Dichlorobenzene
 Concen: 52.863 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

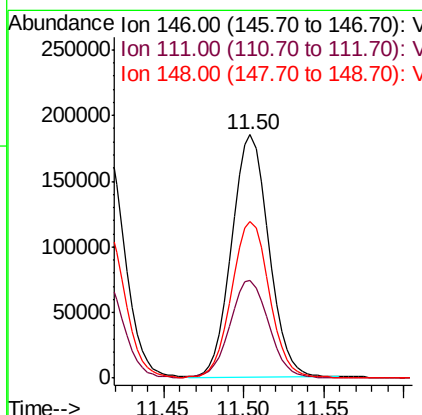
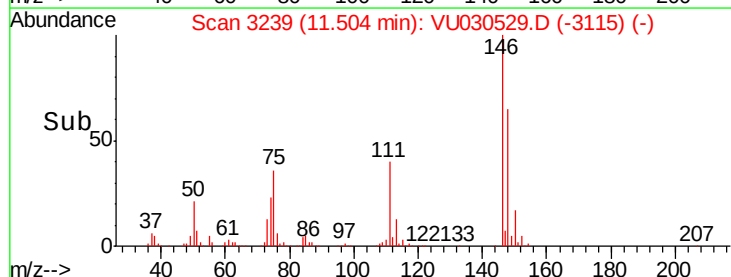
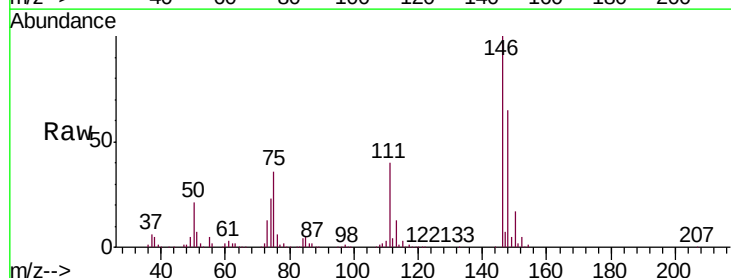
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

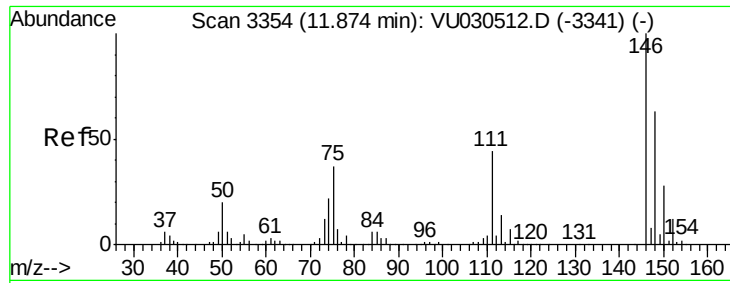
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	29.2	54.2
148	63.3	44.4	82.4



#63
 1,4-Dichlorobenzene
 Concen: 50.408 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	28.7	53.3
148	64.5	44.3	82.3

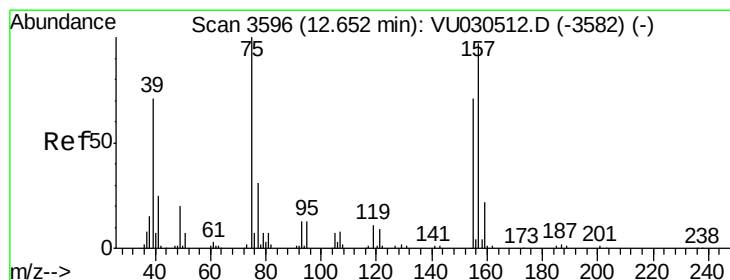
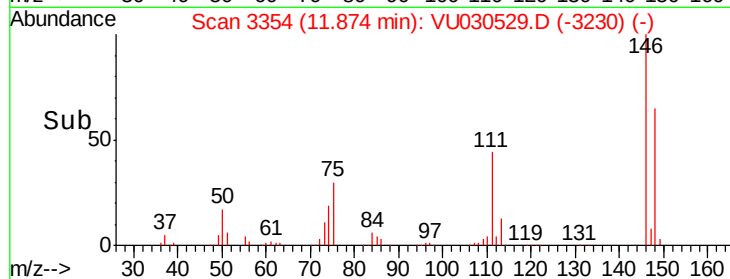
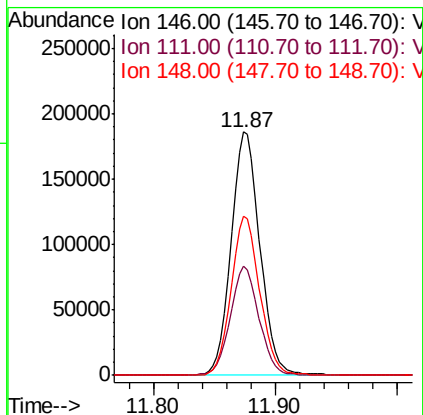
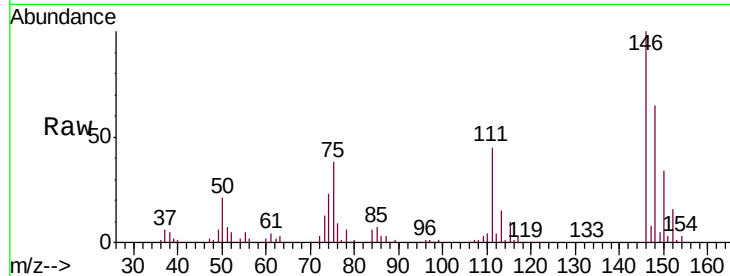




#65
 1,2-Dichlorobenzene
 Concen: 53.820 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

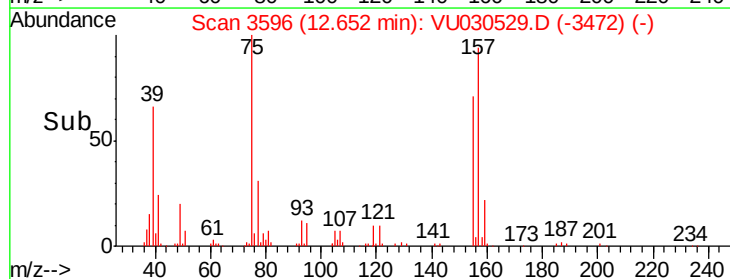
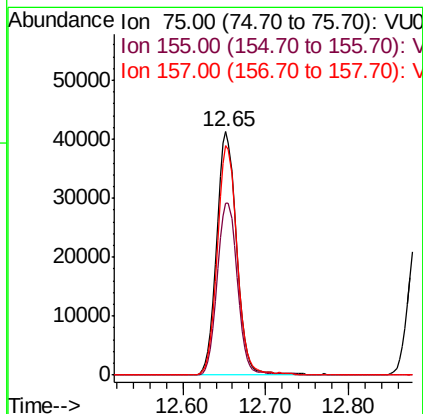
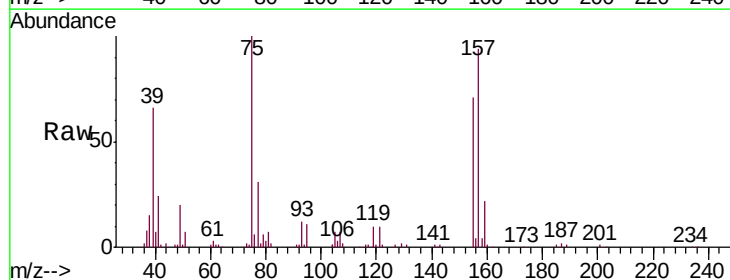
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

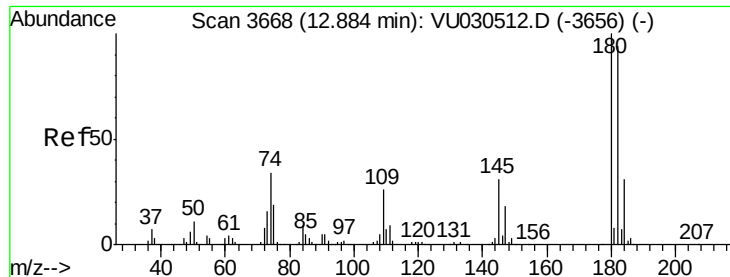
Tgt Ion: 146 Resp: 305456
 Ion Ratio Lower Upper
 146 100
 111 44.7 34.9 52.3
 148 65.4 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 54.282 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion: 75 Resp: 68598
 Ion Ratio Lower Upper
 75 100
 155 70.5 61.8 92.6
 157 94.0 80.2 120.4

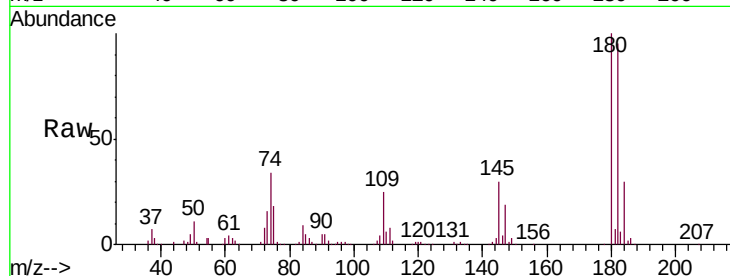




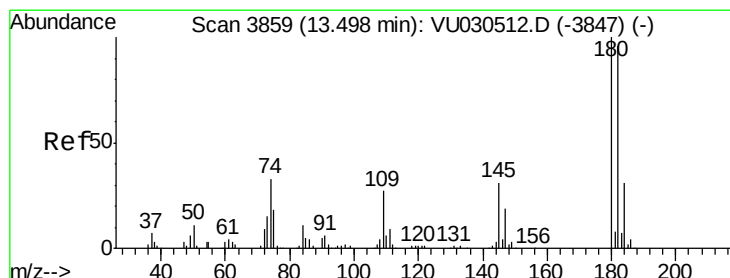
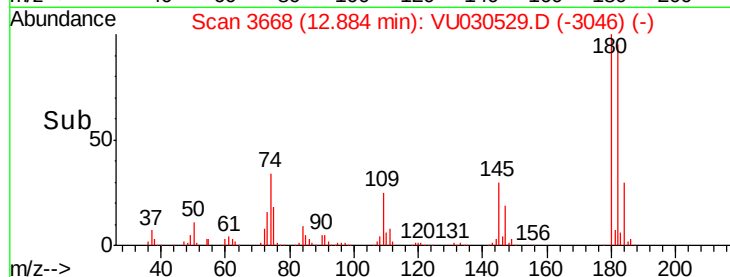
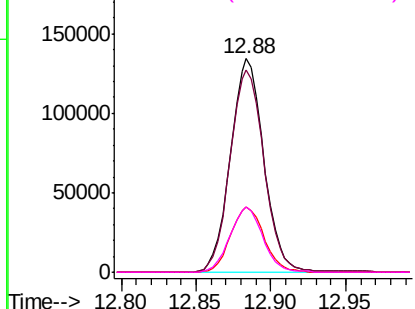
#67
 1,3,5-Trichlorobenzene
 Concen: 49.672 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion:	180	Resp:	208719
Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.9	113.9
184	30.7	24.1	36.1
145	30.3	23.8	35.8

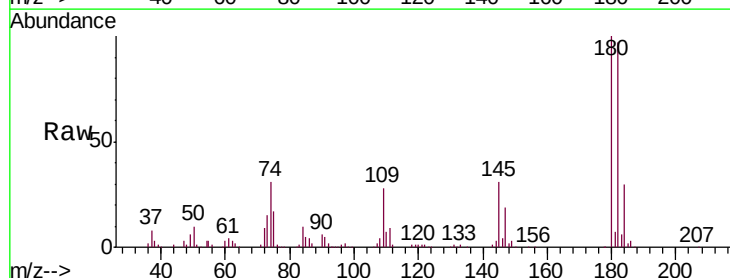


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

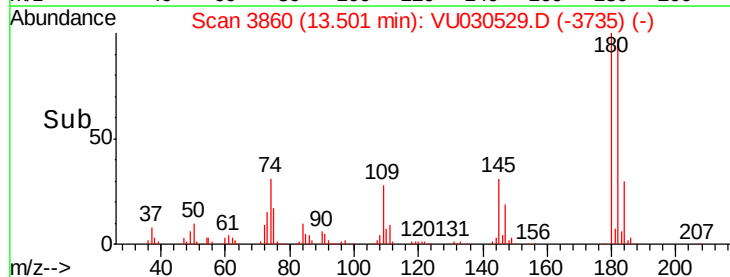
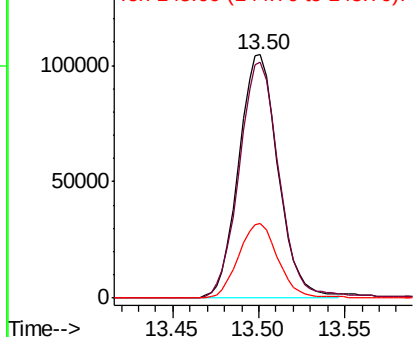


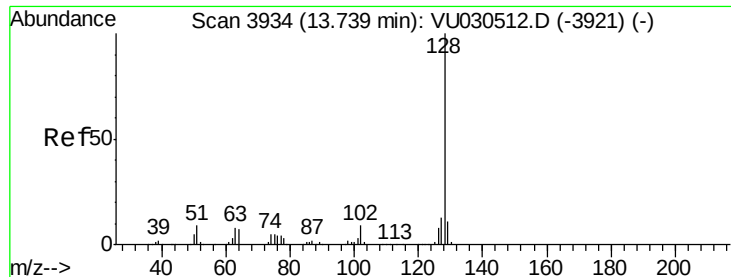
#68
 1,2,4-trichlorobenzene
 Concen: 45.670 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030529.D
 Acq: 28 Mar 2019 20:56

Tgt Ion:	180	Resp:	166741
Ion	Ratio	Lower	Upper
180	100		
182	99.4	76.1	114.1
145	30.8	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: 43.269 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

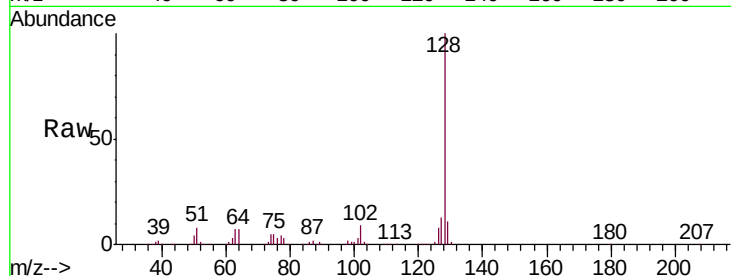
Tgt Ion:128 Resp: 561729

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

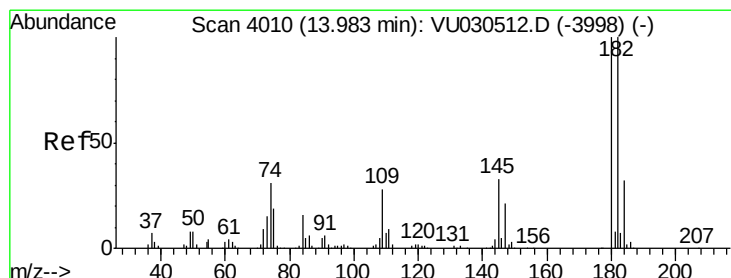
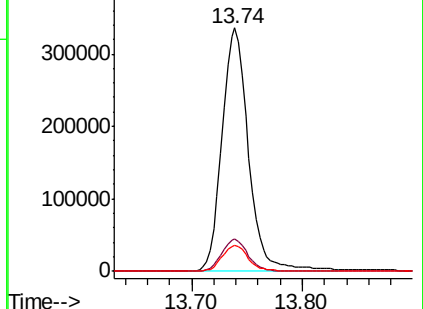
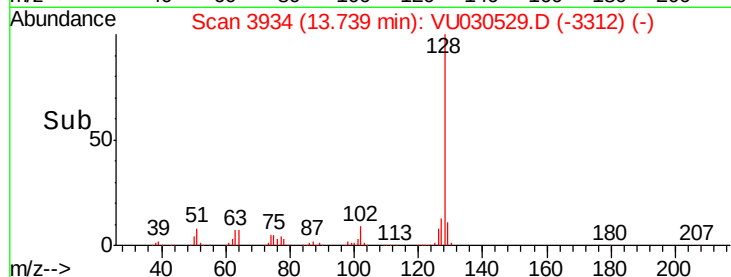
129 10.7 8.4 12.6



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: 48.194 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030529.D

Acq: 28 Mar 2019 20:56

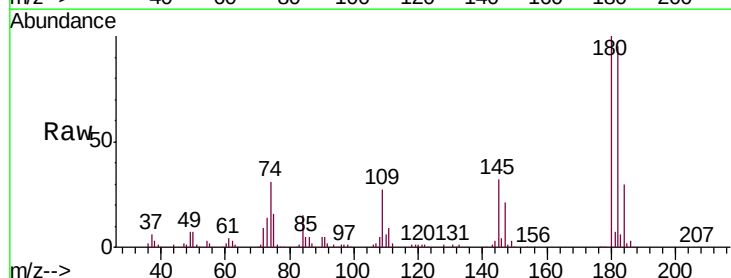
Tgt Ion:180 Resp: 185802

Ion Ratio Lower Upper

180 100

182 95.3 77.4 116.2

145 31.6 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

