

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034359.D
 Acq On : 07 Sep 2019 03:00
 Operator : JC/SP
 Sample : K4725-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S13-0264

Quant Time: Sep 07 04:16:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	281575	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	433549	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	428476	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	257153	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	227515	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
35) Dibromofluoromethane	4.86	113	203297	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	7.55	98	750135	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
62) 4-Bromofluorobenzene	10.29	95	279122	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	

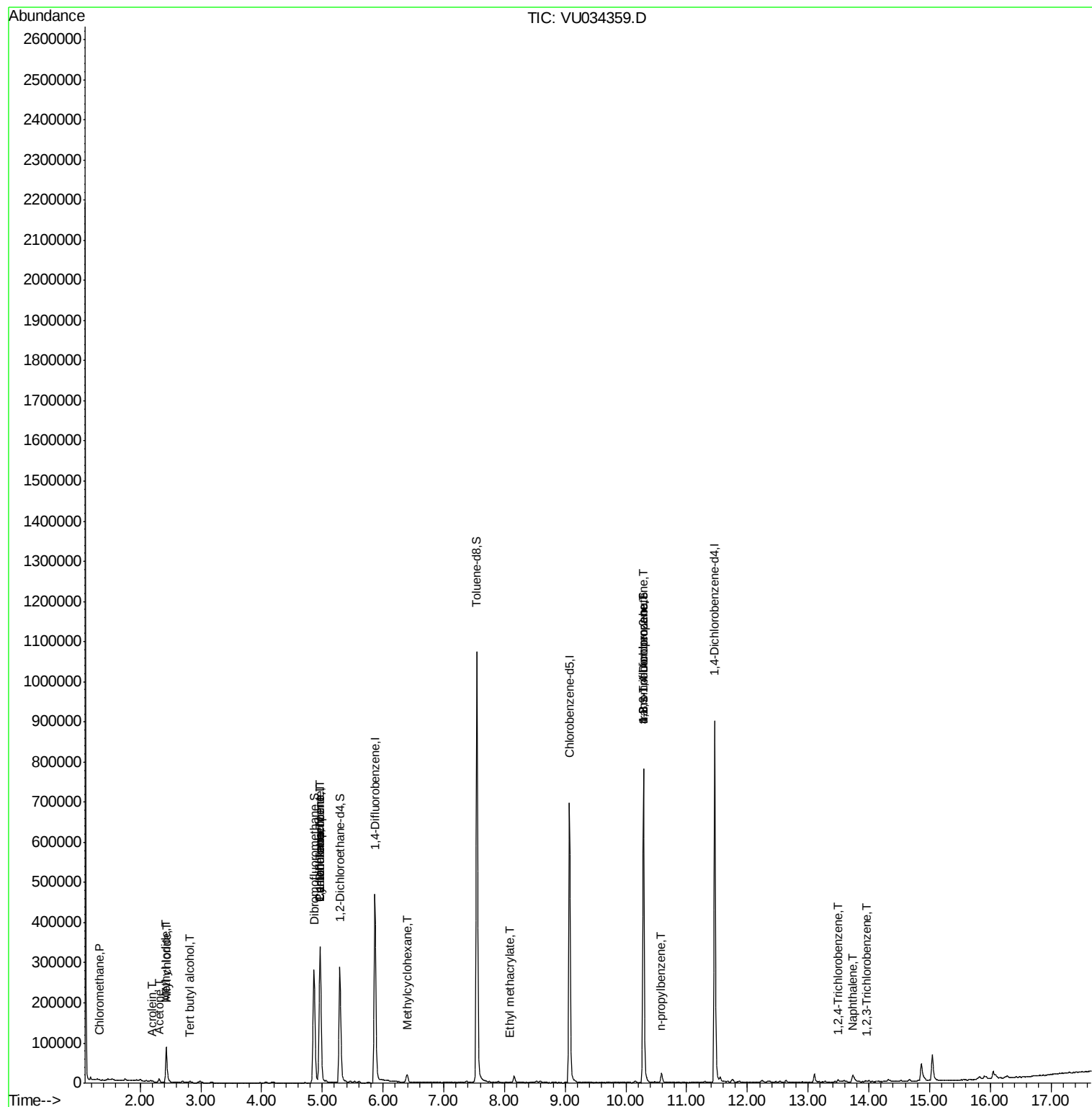
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	920	0.204	ug/l	89
5) Bromomethane	1.60	94	146	Below Cal	#	2
6) Chloroethane	1.72	64	225	Below Cal	#	43
10) Methyl Iodide	2.42	142	280	3.933	ug/l #	69
11) Tert butyl alcohol	2.82	59	2971	3.301	ug/l #	84
13) Acrolein	2.20	56	231	0.305	ug/l #	25
14) Allyl chloride	2.43	41	8037	1.372	ug/l #	52
16) Acetone	2.31	43	10375	4.706	ug/l	93
20) Methylene Chloride	2.69	84	1363	Below Cal	#	74
31) Cyclohexane	4.97	56	7940	1.591	ug/l #	20
36) 1,1-Dichloropropene	4.96	75	19540	4.156	ug/l #	49
38) Carbon Tetrachloride	4.96	117	24911	4.962	ug/l #	15
39) Methylcyclohexane	6.40	83	8482	1.688	ug/l	97
56) Ethyl methacrylate	8.08	69	66	3.086	ug/l #	28
76) 1,2,3-Trichloropropane	10.29	75	129267	23.029	ug/l #	36
78) n-propylbenzene	10.57	91	5710	0.295	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.29	75	129267	77.445	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	465	3.523	ug/l #	61
95) Naphthalene	13.74	128	25206	5.320	ug/l #	97
96) 1,2,3-Trichlorobenzene	13.97	180	140	2.661	ug/l #	45

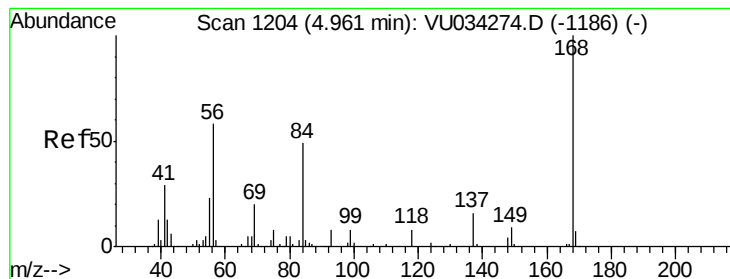
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

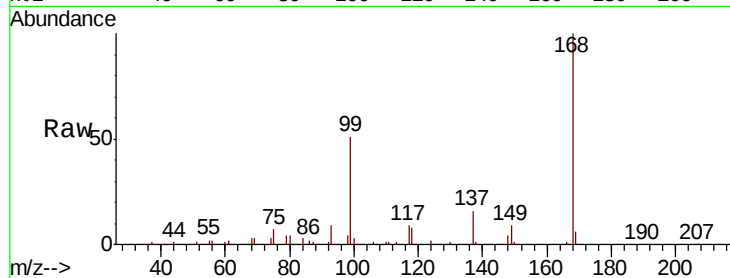
S13-0264

Tgt Ion:168 Resp: 281575

Ion Ratio Lower Upper

168 100

99 50.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

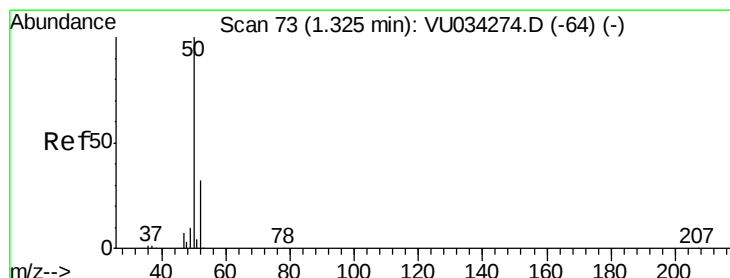
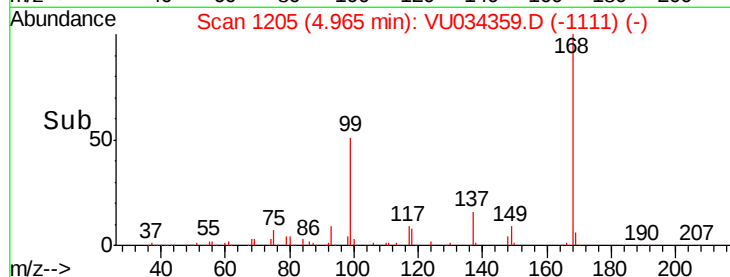
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.204 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034359.D

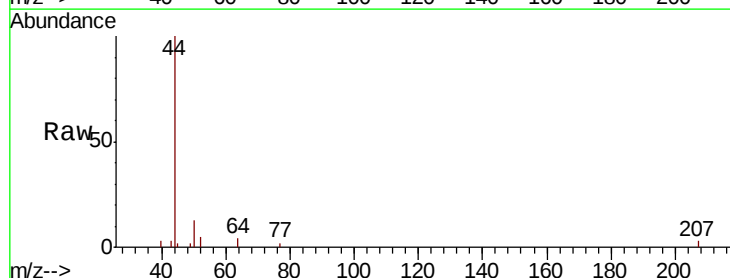
Acq: 07 Sep 2019 03:00

Tgt Ion: 50 Resp: 920

Ion Ratio Lower Upper

50 100

52 38.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VU034274.D (-64) (-)

Ion 51.90 (51.60 to 52.60): VU034274.D (-64) (-)

1.32

1000

800

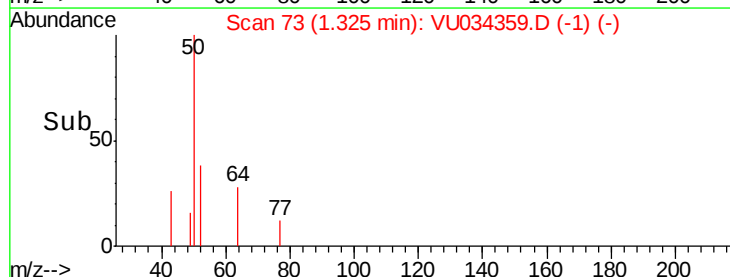
600

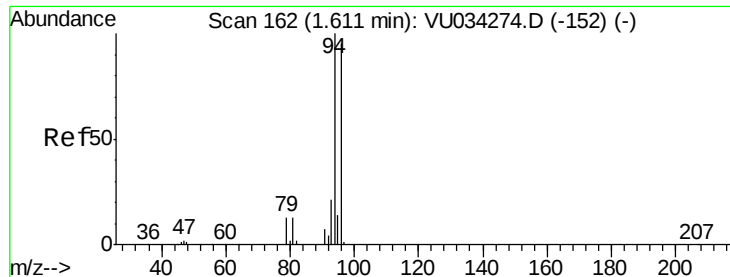
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

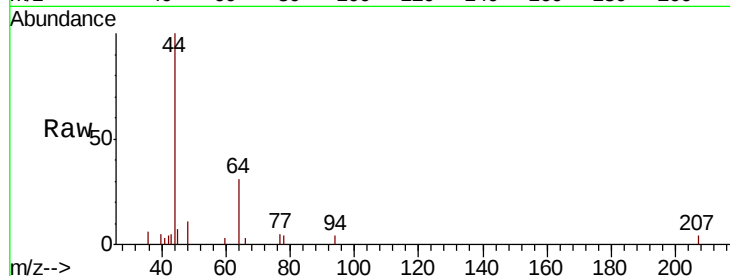
S13-0264

Tgt Ion: 94 Resp: 146

Ion Ratio Lower Upper

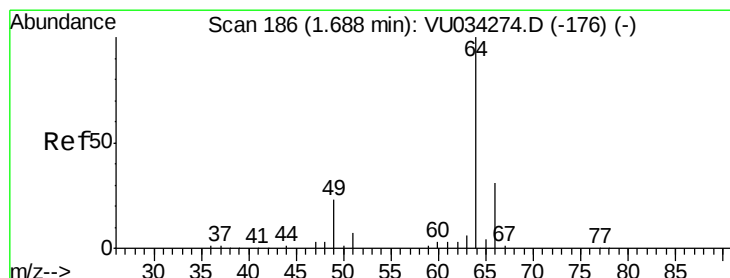
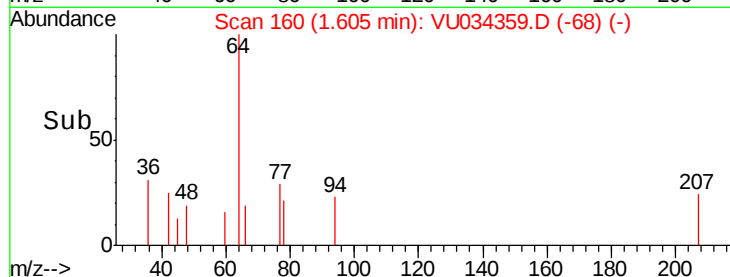
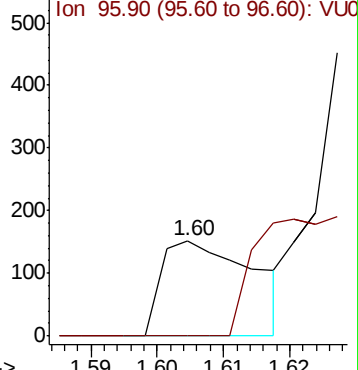
94 100

96 0.0 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 195

Delta R.T. 0.03 min

Lab File: VU034359.D

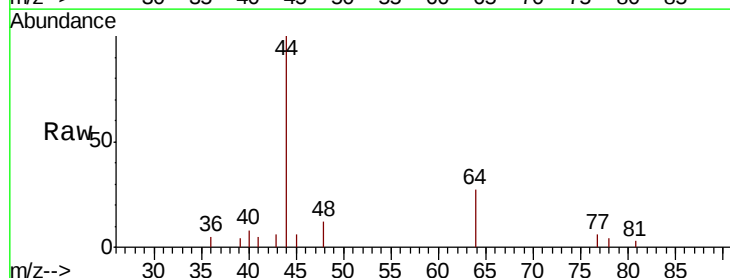
Acq: 07 Sep 2019 03:00

Tgt Ion: 64 Resp: 225

Ion Ratio Lower Upper

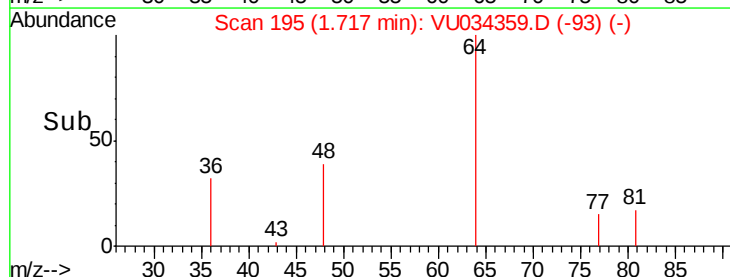
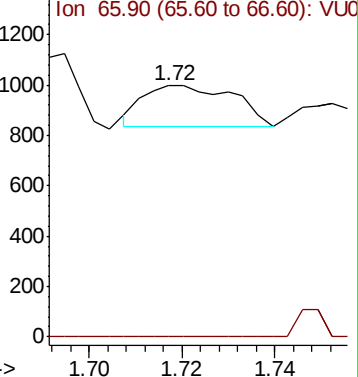
64 100

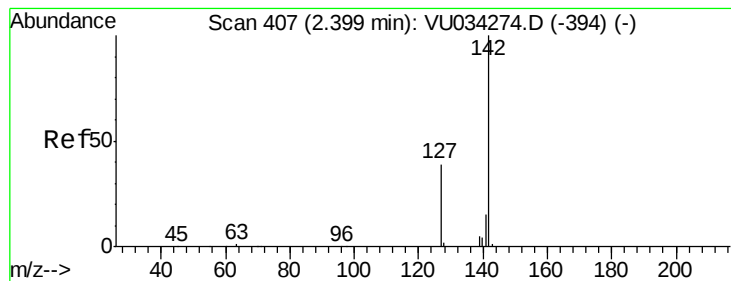
66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#10

Methyl Iodide

Concen: 3.933 ug/l

RT: 2.42 min Scan# 413

Delta R.T. 0.02 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

S13-0264

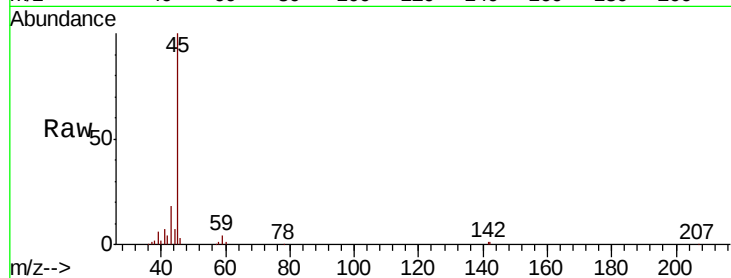
Tgt Ion: 142 Resp: 280

Ion Ratio Lower Upper

142 100

127 22.1 32.1 48.1#

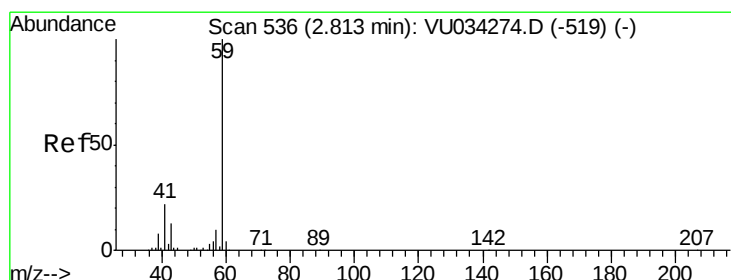
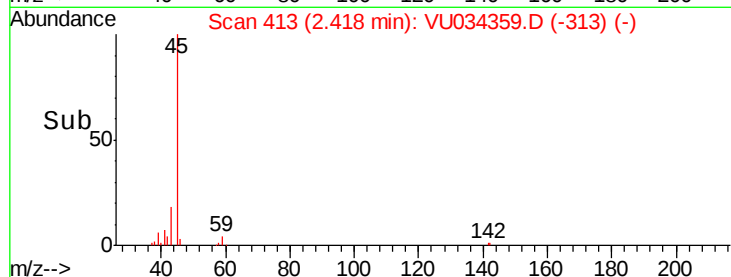
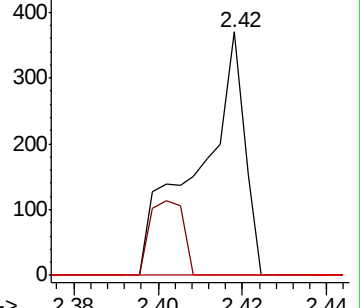
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 3.301 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034359.D

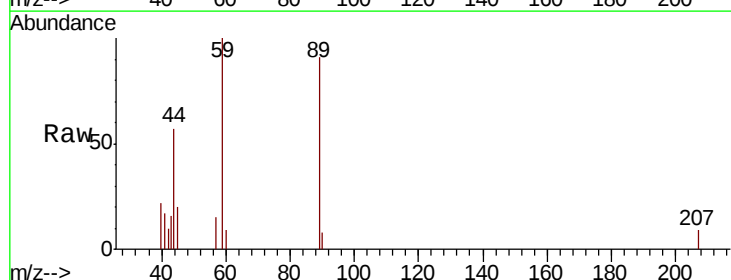
Acq: 07 Sep 2019 03:00

Tgt Ion: 59 Resp: 2971

Ion Ratio Lower Upper

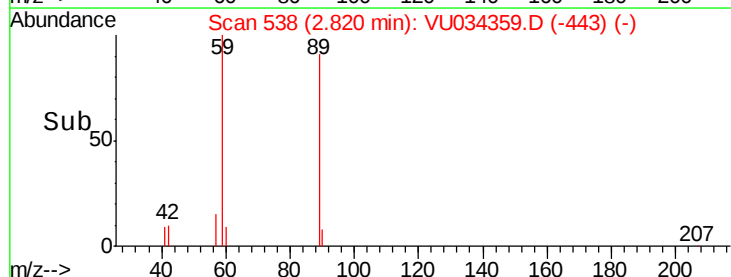
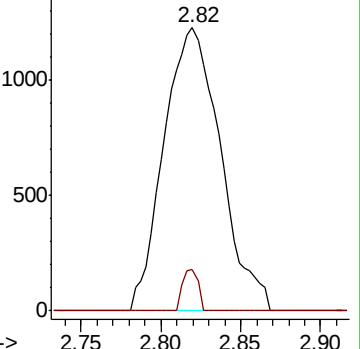
59 100

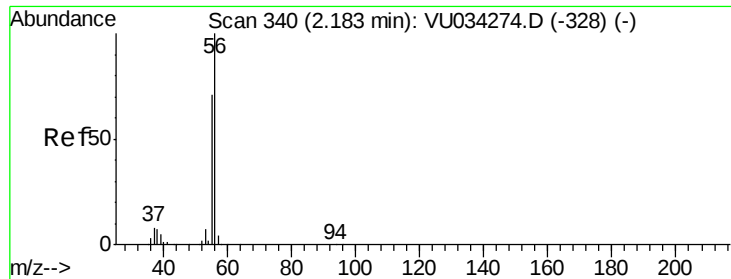
57 3.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.305 ug/l

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

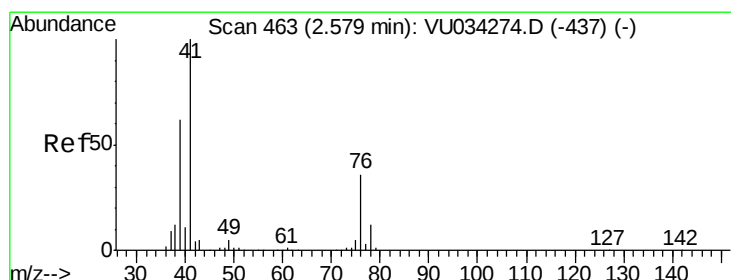
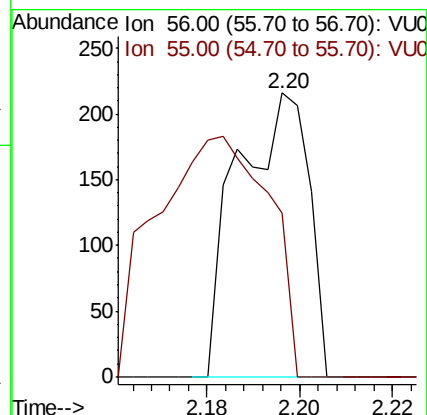
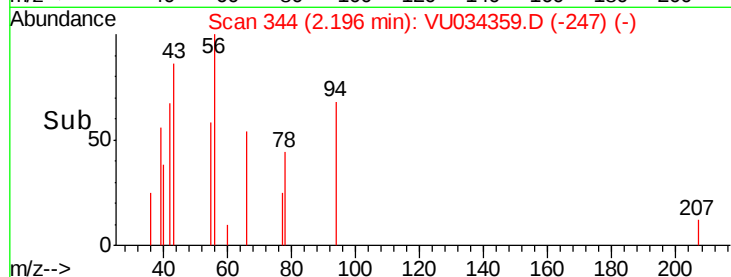
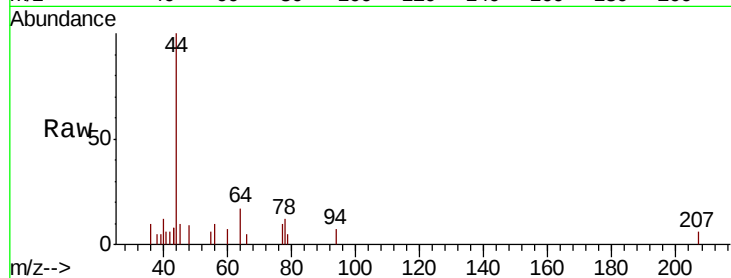
S13-0264

Tgt Ion: 56 Resp: 231

Ion Ratio Lower Upper

56 100

55 134.2 57.4 86.2#



#14

Allyl chloride

Concen: 1.372 ug/l

RT: 2.43 min Scan# 417

Delta R.T. -0.15 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

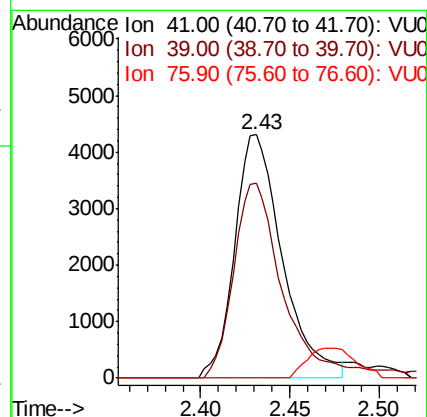
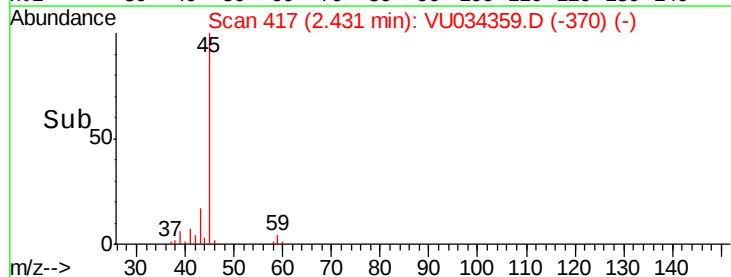
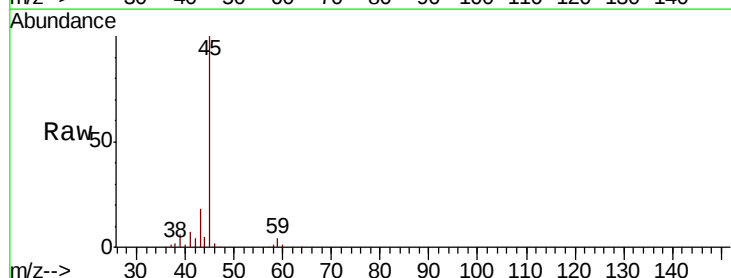
Tgt Ion: 41 Resp: 8037

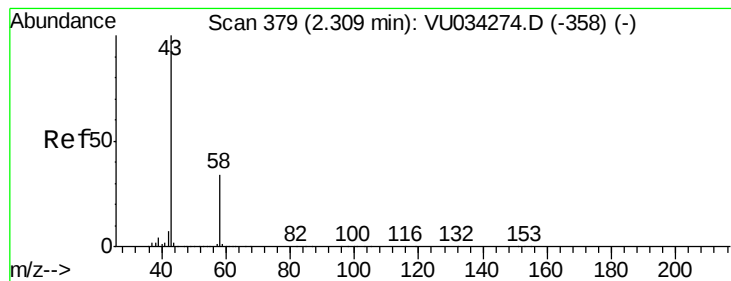
Ion Ratio Lower Upper

41 100

39 84.0 43.5 65.3#

76 0.0 27.0 40.6#





#16

Acetone

Concen: 4.706 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

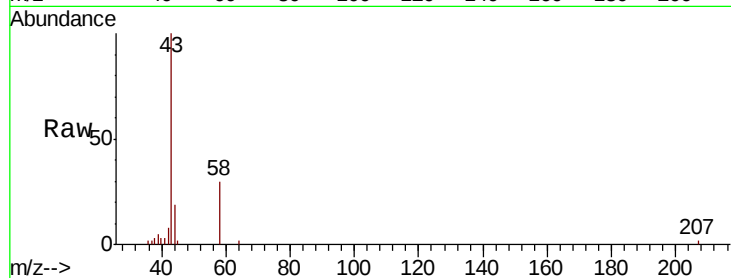
S13-0264

Tgt Ion: 43 Resp: 10375

Ion Ratio Lower Upper

43 100

58 30.6 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-358) (-)

12000

10000

8000

6000

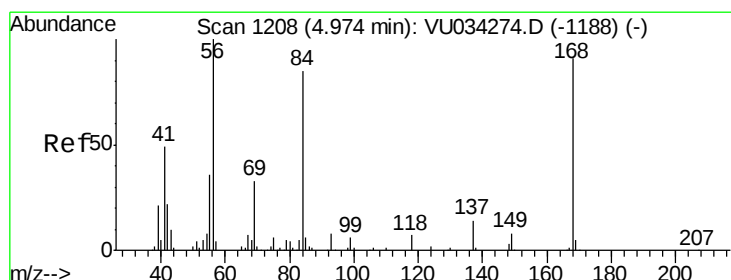
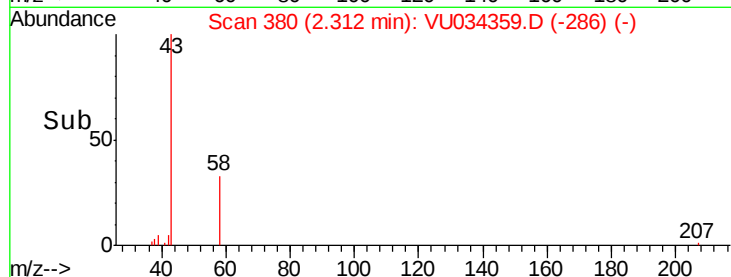
4000

2000

0

2.25 2.30 2.35 2.40

Time-->



#31

Cyclohexane

Concen: 1.591 ug/l

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

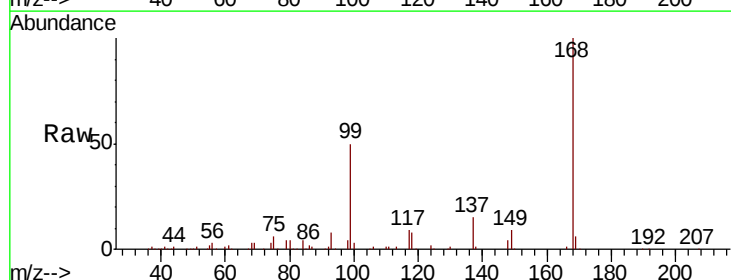
Tgt Ion: 56 Resp: 7940

Ion Ratio Lower Upper

56 100

69 119.3 26.7 40.1#

84 132.8 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034274.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034274.D (-1188) (-)

5000

4000

3000

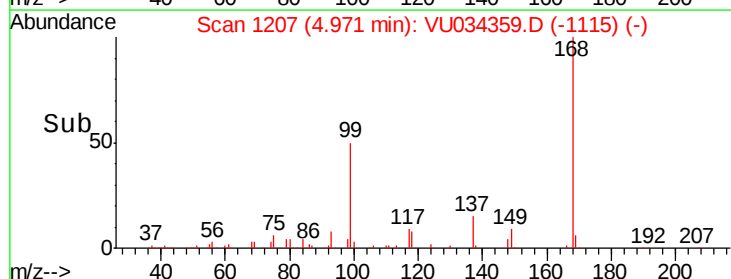
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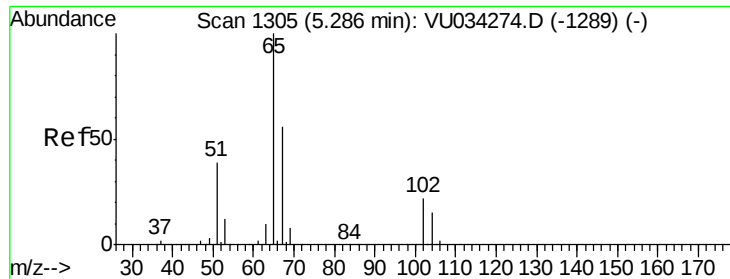
1000

0

4.90 4.95 5.00 5.05

Time-->

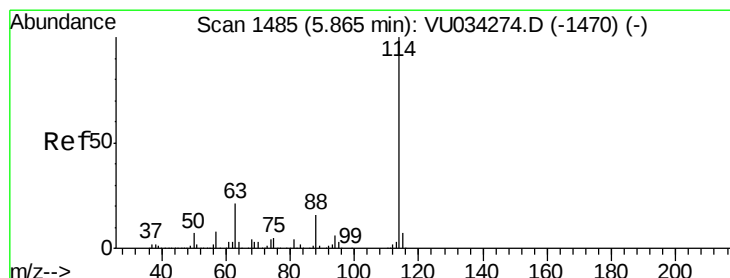
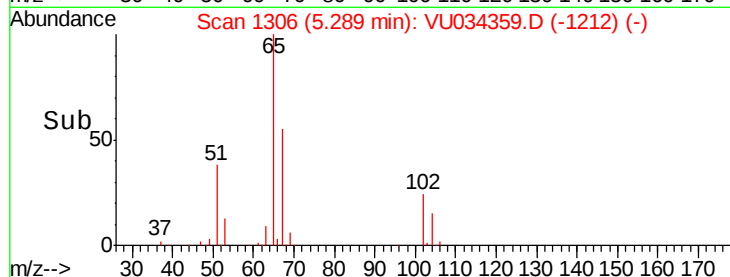
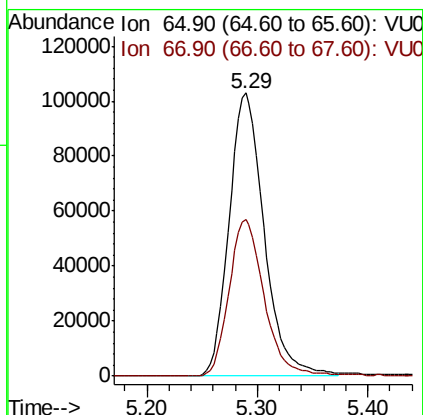
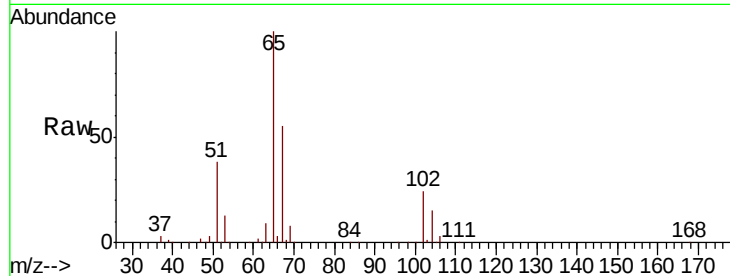




#33
 1,2-Dichloroethane-d4
 Concen: 53.403 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

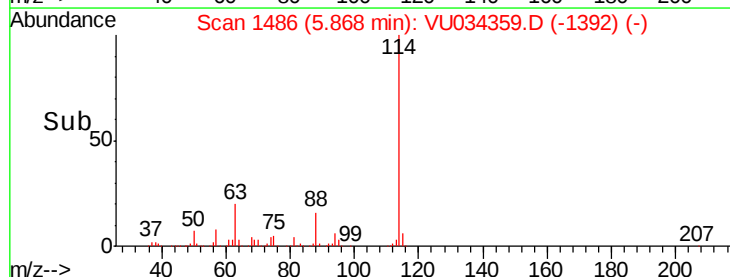
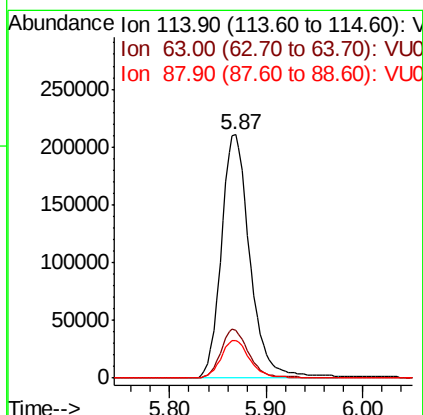
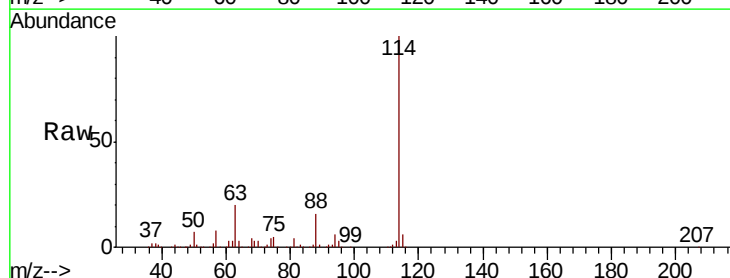
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 S13-0264

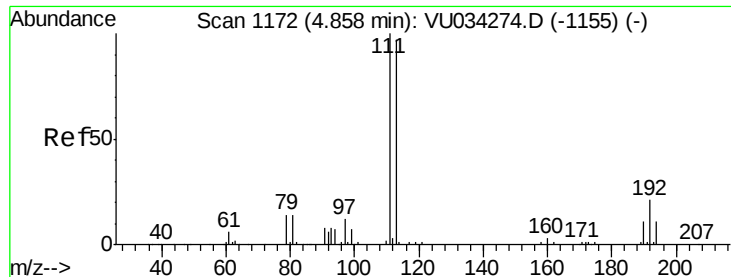
Tgt Ion: 65 Resp: 227515
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

Tgt Ion: 114 Resp: 433549
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.4
 88 15.6 0.0 32.4

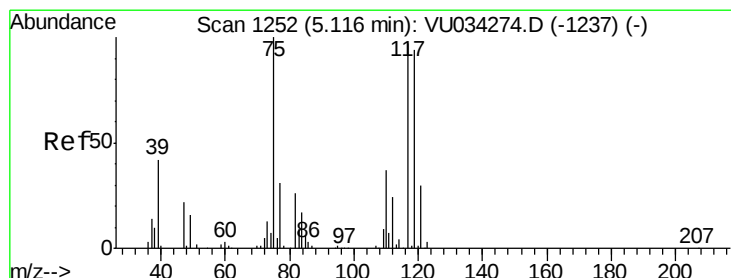
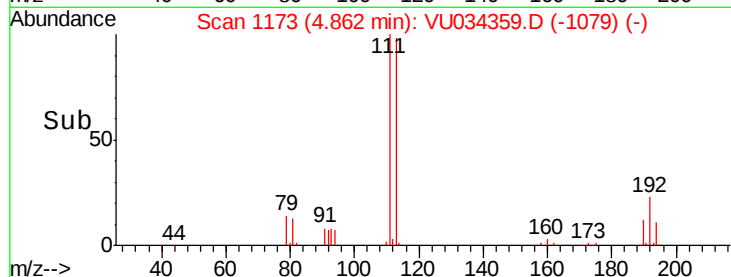
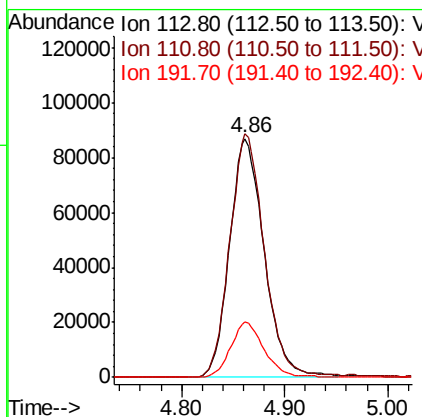
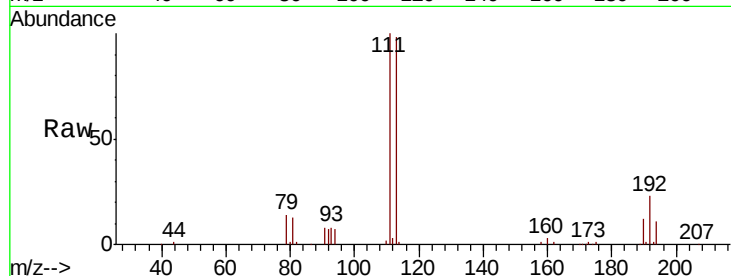




#35
 Dibromofluoromethane
 Concen: 50.394 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

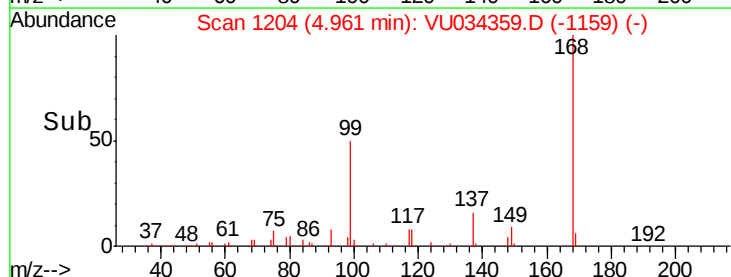
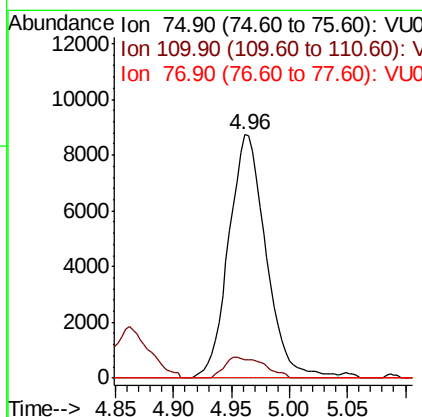
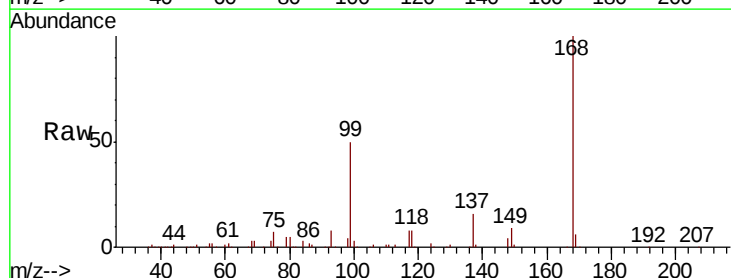
Instrument :
 MSVOA_U
 ClientSampled :
 S13-0264

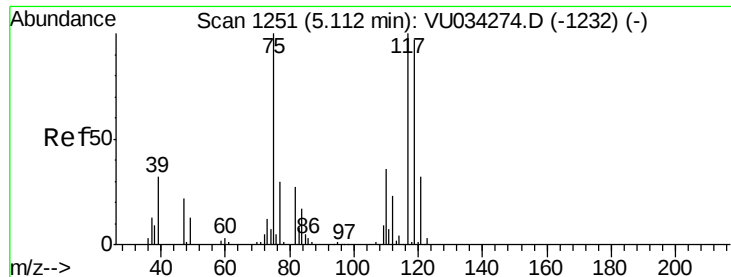
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.5	122.3
192	22.4	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.156 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.3	54.9#
77	0.0	24.9	37.3#

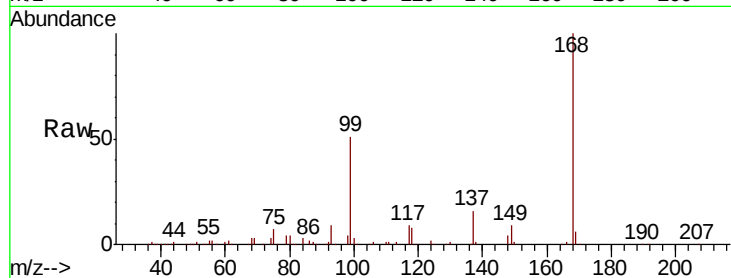




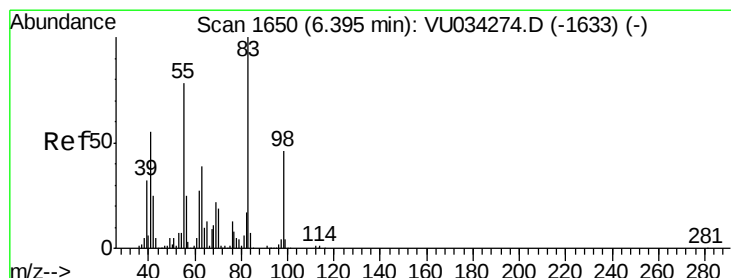
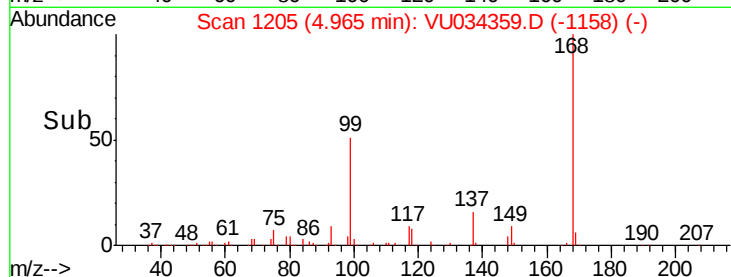
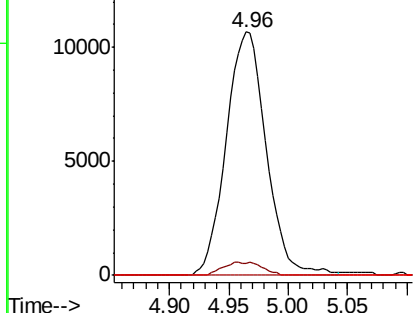
#38
Carbon Tetrachloride
Concen: 4.962 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.15 min
Lab File: VU034359.D
Acq: 07 Sep 2019 03:00

Instrument :
MSVOA_U
ClientSampleId :
S13-0264

Tgt Ion: 117 Resp: 24911
Ion Ratio Lower Upper
117 100
119 4.9 77.8 116.6#
121 0.0 25.2 37.8#

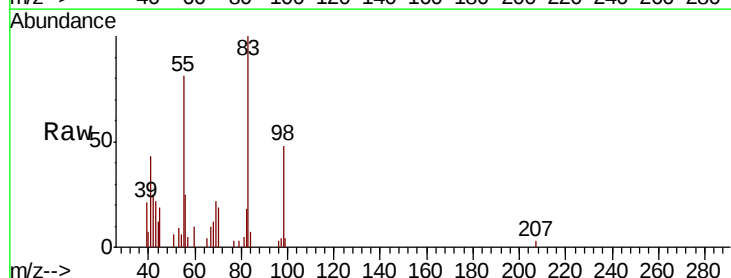


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

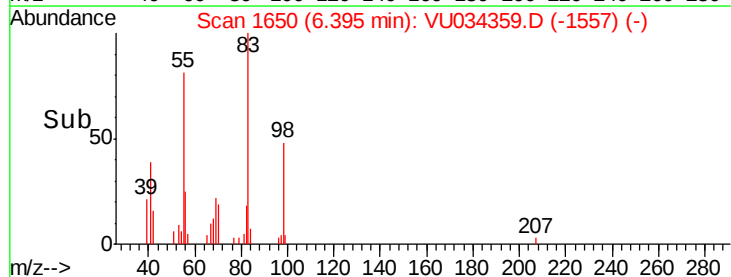
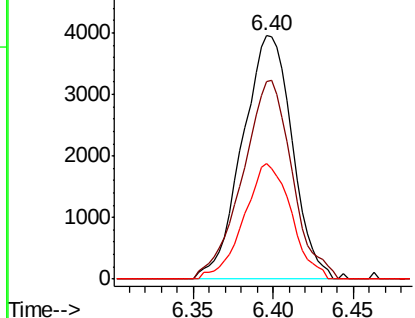


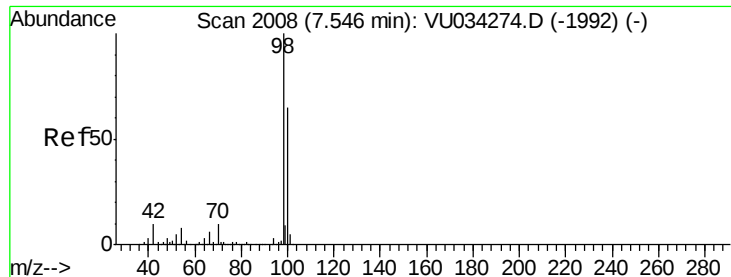
#39
Methylcyclohexane
Concen: 1.688 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034359.D
Acq: 07 Sep 2019 03:00

Tgt Ion: 83 Resp: 8482
Ion Ratio Lower Upper
83 100
55 81.0 62.1 93.1
98 47.7 37.0 55.6



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

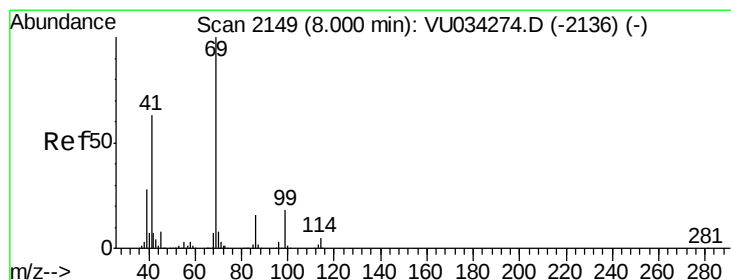
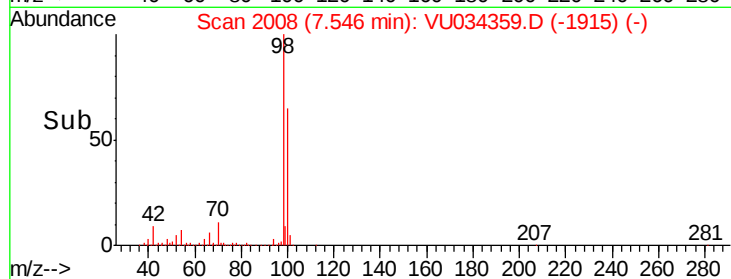
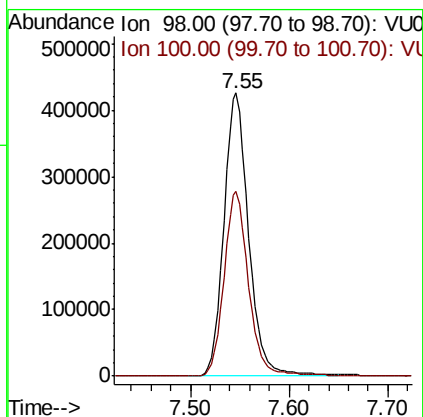
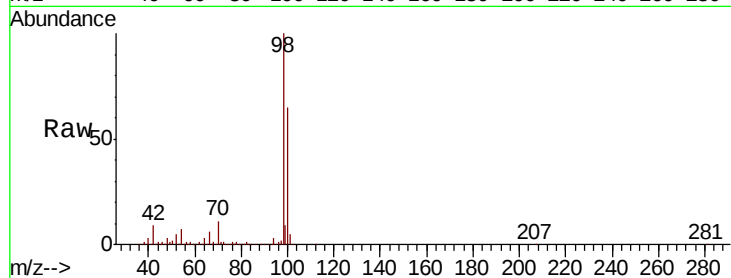




#50
Toluene-d8
Concen: 49.493 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034359.D
Acq: 07 Sep 2019 03:00

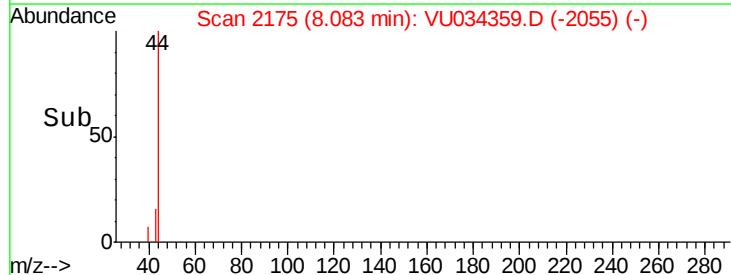
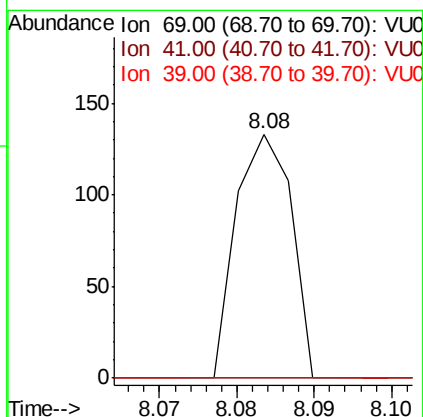
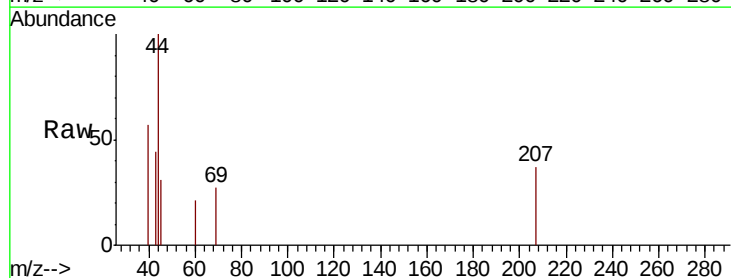
Instrument :
MSVOA_U
ClientSampleId :
S13-0264

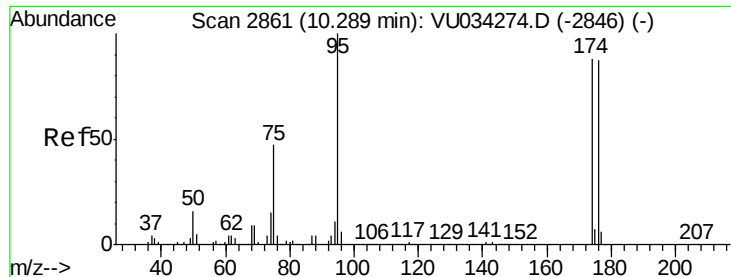
Tgt Ion: 98 Resp: 750135
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#56
Ethyl methacrylate
Concen: 3.086 ug/l
RT: 8.08 min Scan# 2175
Delta R.T. 0.08 min
Lab File: VU034359.D
Acq: 07 Sep 2019 03:00

Tgt Ion: 69 Resp: 66
Ion Ratio Lower Upper
69 100
41 0.0 49.5 74.3#
39 0.0 22.5 33.7#





#62

4-Bromofluorobenzene

Concen: 47.698 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

S13-0264

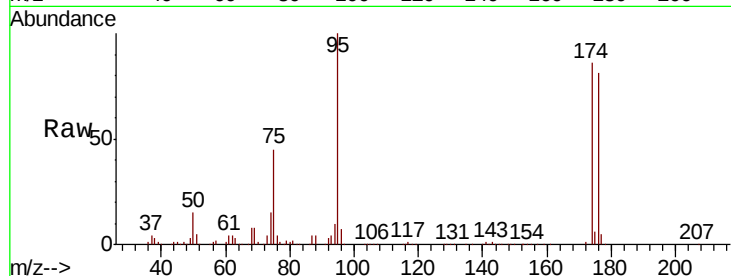
Tgt Ion: 95 Resp: 279122

Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.2

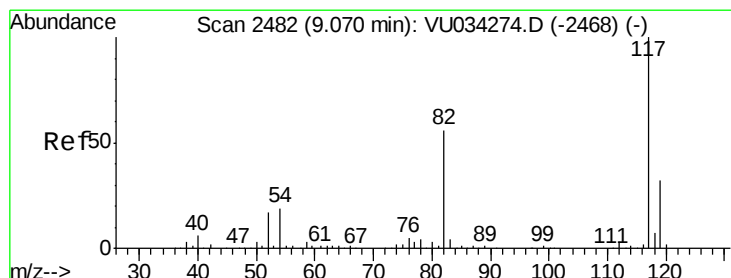
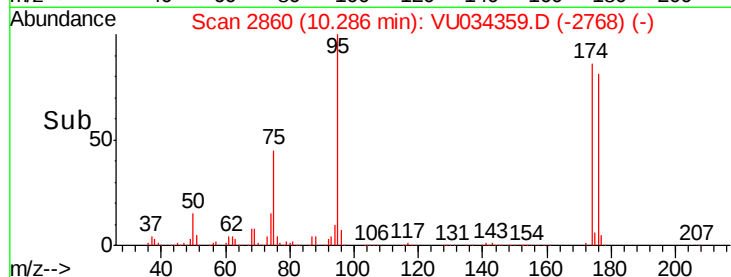
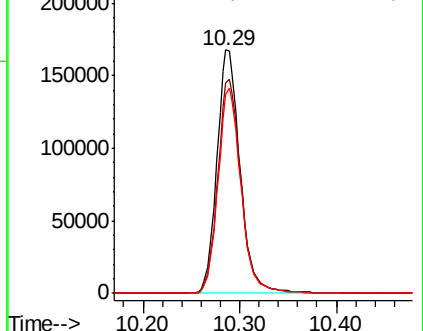
176 83.9 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

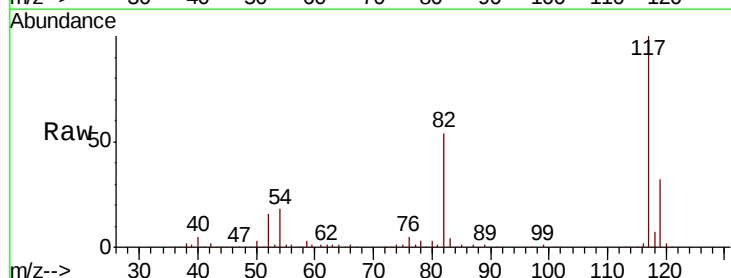
Tgt Ion: 117 Resp: 428476

Ion Ratio Lower Upper

117 100

82 53.6 44.6 67.0

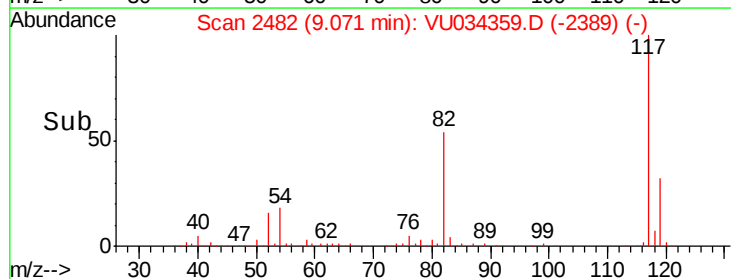
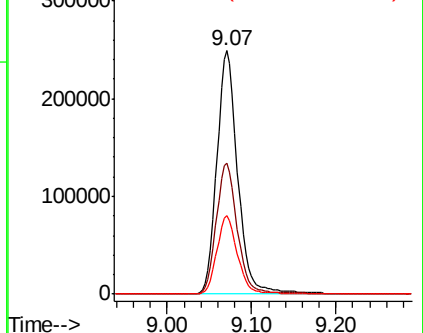
119 32.0 25.9 38.9

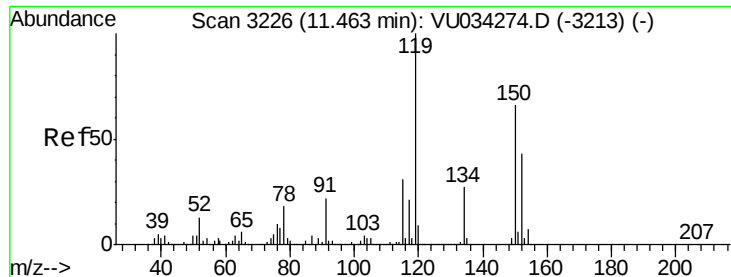


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

S13-0264

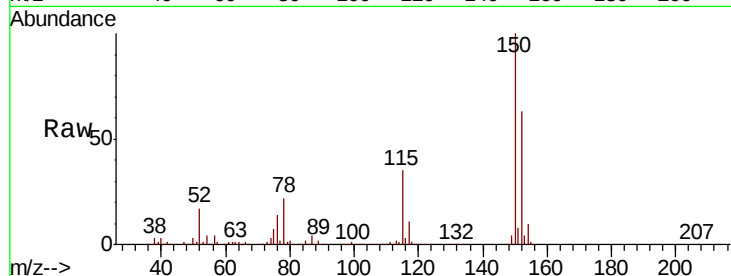
Tgt Ion:152 Resp: 257153

Ion Ratio Lower Upper

152 100

115 56.4 39.1 117.3

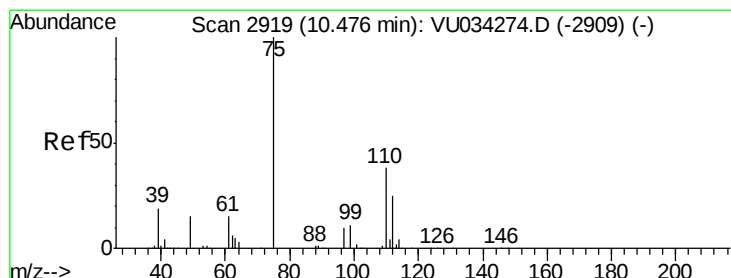
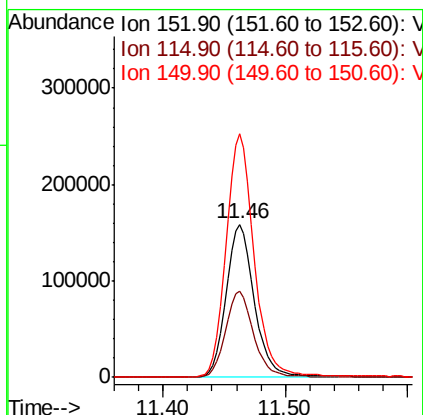
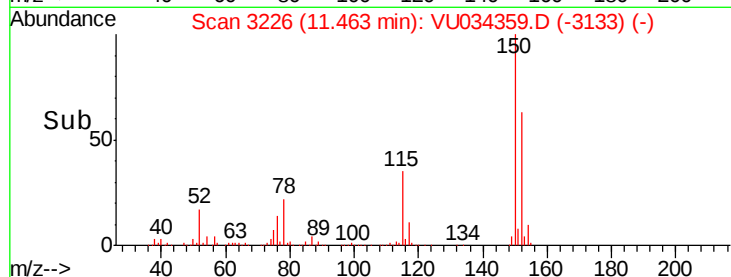
150 158.9 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.029 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034359.D

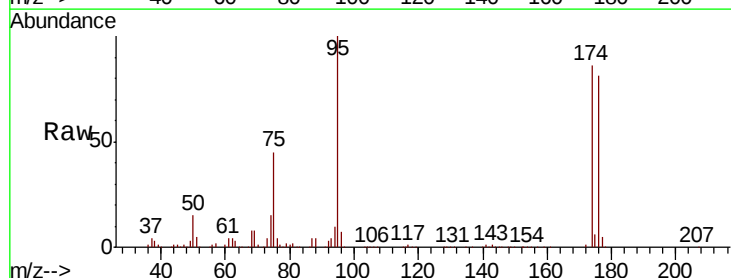
Acq: 07 Sep 2019 03:00

Tgt Ion: 75 Resp: 129267

Ion Ratio Lower Upper

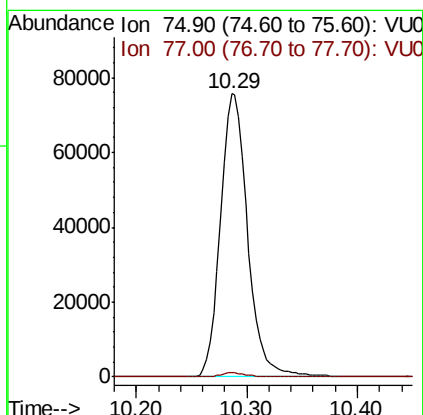
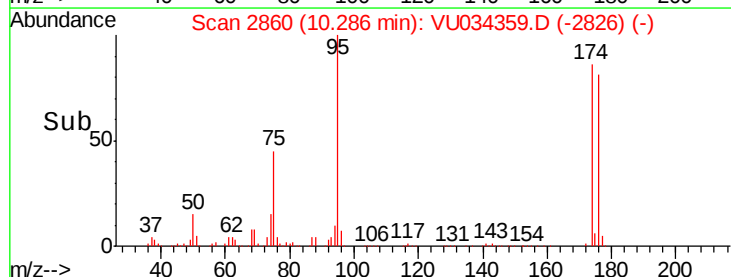
75 100

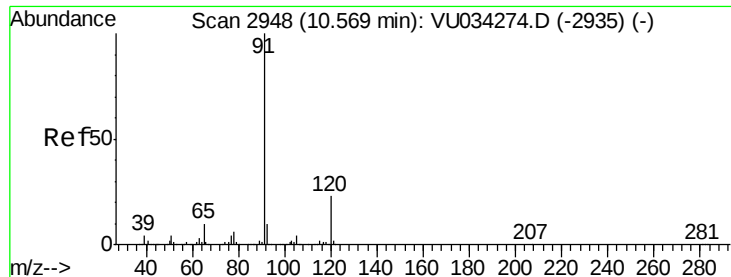
77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#78

n-propylbenzene

Concen: 0.295 ug/l

RT: 10.57 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

Instrument :

MSVOA_U

ClientSampleId :

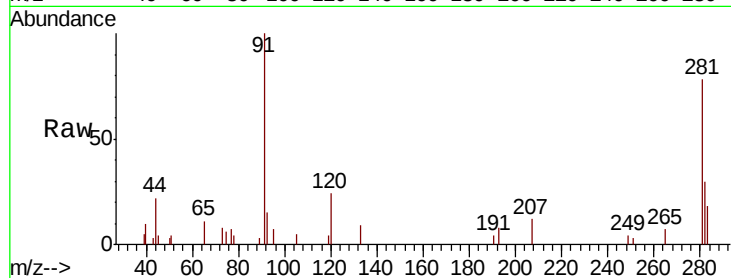
S13-0264

Tgt Ion: 91 Resp: 5710

Ion Ratio Lower Upper

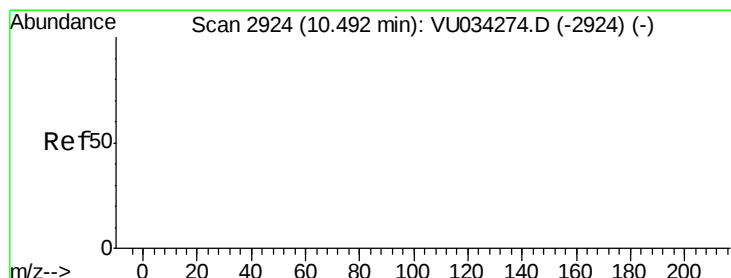
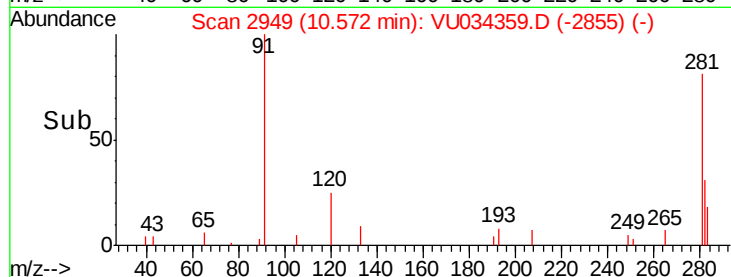
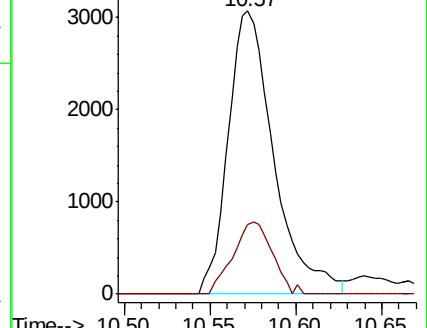
91 100

120 21.9 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU034274.D (-2935) (-)

Ion 120.00 (119.70 to 120.70): VU034274.D (-2935) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 77.445 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034359.D

Acq: 07 Sep 2019 03:00

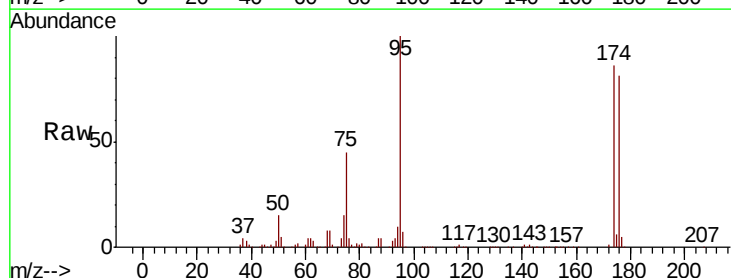
Tgt Ion: 75 Resp: 129267

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

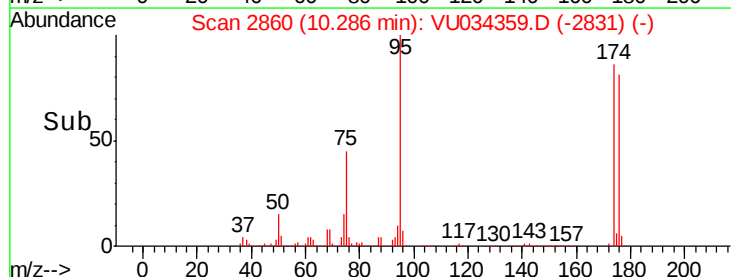
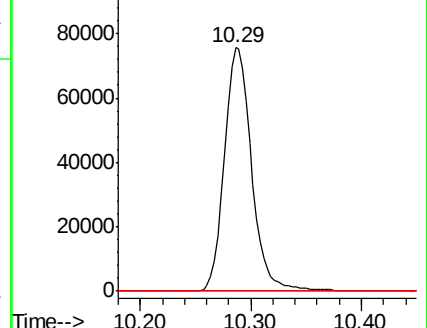
89 0.0 0.0 0.0#

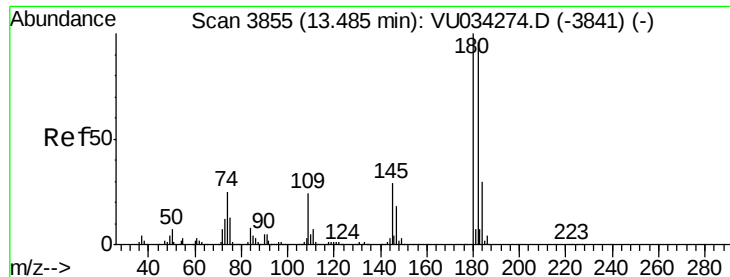


Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU034274.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU034274.D (-2924) (-)

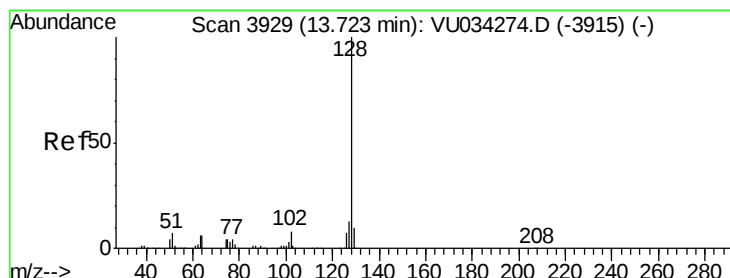
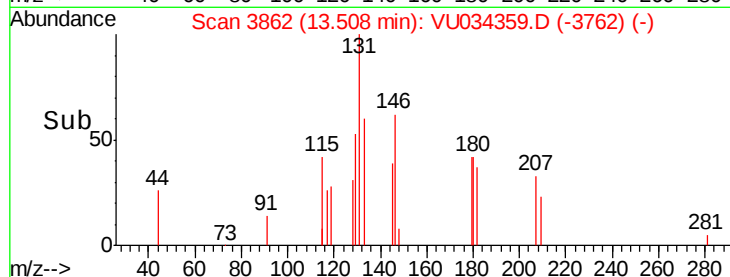
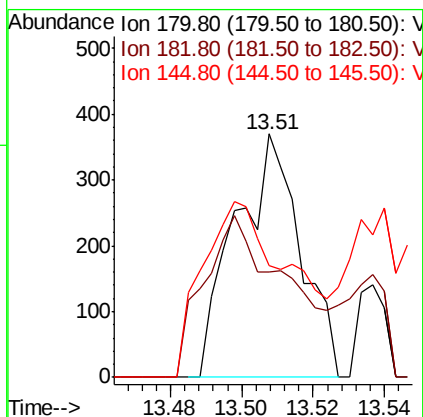
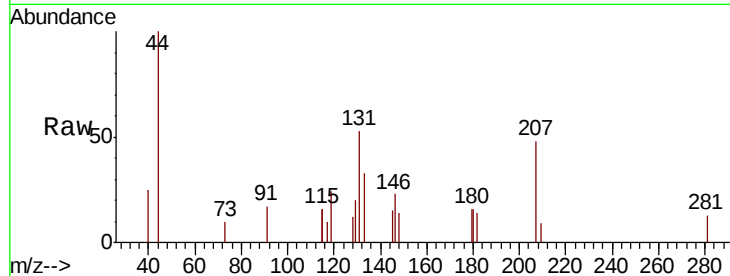




#93
 1,2,4-Trichlorobenzene
 Concen: 3.523 ug/l
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.02 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

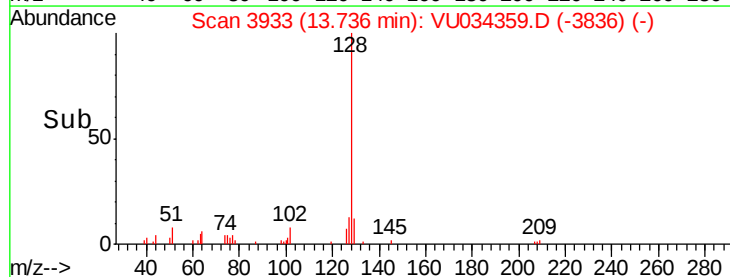
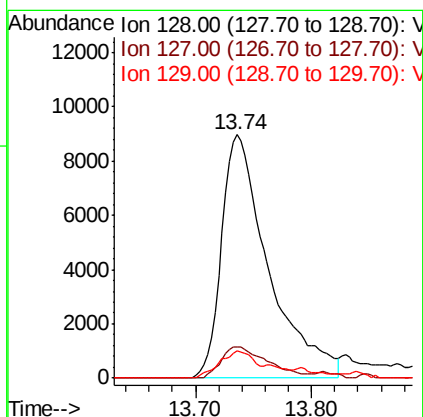
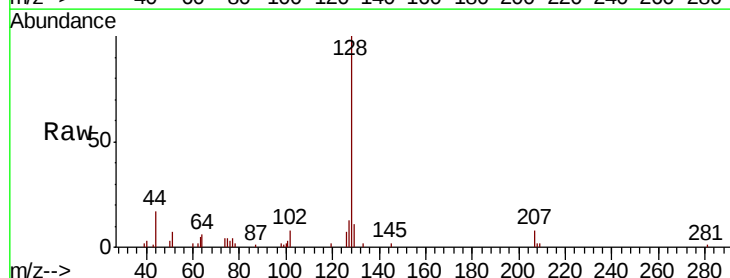
Instrument :
 MSVOA_U
 ClientSampleId :
 S13-0264

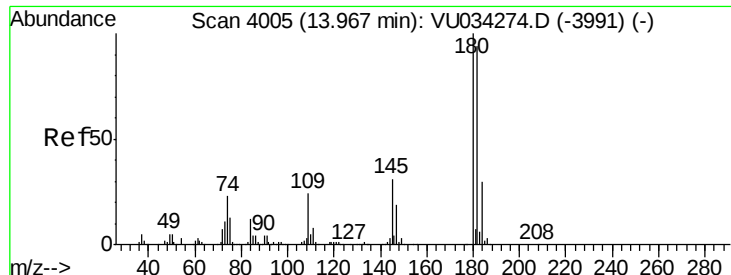
Tgt Ion:180 Resp: 465
 Ion Ratio Lower Upper
 180 100
 182 84.5 47.9 143.8
 145 98.5 14.4 43.0#



#95
 Naphthalene
 Concen: 5.320 ug/l
 RT: 13.74 min Scan# 3933
 Delta R.T. 0.01 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

Tgt Ion:128 Resp: 25206
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.6 15.8
 129 8.3 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.661 ug/l
 RT: 13.97 min Scan# 4005
 Delta R.T. 0.00 min
 Lab File: VU034359.D
 Acq: 07 Sep 2019 03:00

Instrument :
 MSVOA_U
 ClientSampleId :
 S13-0264

Tgt Ion:180 Resp: 140
 Ion Ratio Lower Upper
 180 100
 182 150.7 48.4 145.0#
 145 0.0 15.4 46.4#

