

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U111119\
 Data File : VU035683.D
 Acq On : 11 Nov 2019 09:56
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Quant Time: Nov 11 10:15:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 08 06:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	707235	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	693097	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	318867	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	232793	40.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.50%
7) Chloroethane-d5	1.93	69	203843	44.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.36%
11) 1,1-Dichloroethene-d2	2.60	63	387886	43.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.32%
21) 2-Butanone-d5	4.69	46	324970	97.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.39%
24) Chloroform-d	5.11	84	415430	47.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.18%
26) 1,2-Dichloroethane-d4	5.75	65	243862	45.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.26%
32) Benzene-d6	5.77	84	829763	45.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.86%
36) 1,2-Dichloropropane-d6	6.73	67	271902	46.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.82%
41) Toluene-d8	7.93	98	789290	46.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.64%
43) trans-1,3-Dichloropropene-	8.21	79	133068	49.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.62%
47) 2-Hexanone-d5	8.67	63	239668	106.73	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.73%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	400280	48.04	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.08%
64) 1,2-Dichlorobenzene-d4	12.22	152	290050	45.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	257195	46.631	ug/L 100
3) Chloromethane	1.54	50	294458	48.986	ug/L 100
5) Vinyl chloride	1.62	62	302105	46.710	ug/L 99
6) Bromomethane	1.87	94	178317	54.432	ug/L 96
8) Chloroethane	1.95	64	180359	47.946	ug/L 97
9) Trichlorofluoromethane	2.16	101	372269	48.590	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	219984	50.015	ug/L 100
12) 1,1-Dichloroethene	2.61	96	209337	48.455	ug/L 96
13) Acetone	2.66	43	369696	125.935	ug/L 98
14) Carbon disulfide	2.82	76	635361	47.735	ug/L 99
15) Methyl Acetate	2.99	43	259311	48.769	ug/L 98
16) Methylene chloride	3.08	84	256867	48.729	ug/L 97
17) trans-1,2-Dichloroethene	3.39	96	224091	49.256	ug/L 98
18) Methyl tert-butyl Ether	3.42	73	705095	51.261	ug/L 98
19) 1,1-Dichloroethane	3.92	63	419134	47.758	ug/L 100
20) cis-1,2-Dichloroethene	4.72	96	254952	49.684	ug/L 97
22) 2-Butanone	4.76	43	431157	111.260	ug/L 96

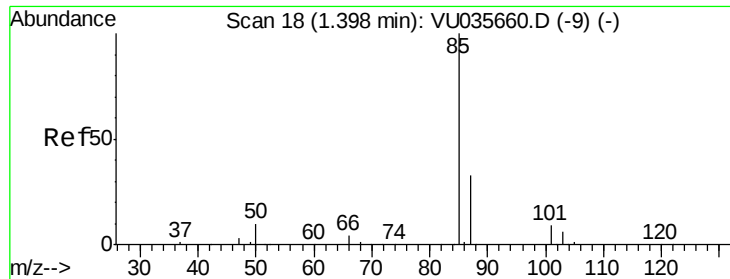
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU111119\
 Data File : VU035683.D
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 Quant Title : VOC Analysis
 QLast Update : Fri Nov 08 06:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	134365	49.551	ug/L	98
25) Chloroform	5.13	83	424805	47.661	ug/L	98
27) 1,2-Dichloroethane	5.84	62	315059	48.383	ug/L	99
29) Cyclohexane	5.43	56	361337	51.112	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	354632	48.681	ug/L	98
31) Carbon tetrachloride	5.57	117	319893	49.386	ug/L	99
33) Benzene	5.82	78	959416	49.254	ug/L	100
34) Trichloroethene	6.58	95	237748	48.010	ug/L	99
35) Methylcyclohexane	6.80	83	357611	49.723	ug/L	99
37) 1,2-Dichloropropane	6.83	63	257010	49.270	ug/L	99
38) Bromodichloromethane	7.14	83	323226	48.749	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	410015	52.881	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	686657	98.395	ug/L	98
42) Toluene	8.00	91	1051371	51.498	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	363672	51.170	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	248101	49.622	ug/L	99
46) Tetrachloroethene	8.58	164	211506	51.079	ug/L	97
48) 2-Hexanone	8.73	43	568657	100.204	ug/L	97
49) Dibromochloromethane	8.84	129	282695	50.137	ug/L	99
50) 1,2-Dibromoethane	8.96	107	272018	50.993	ug/L	99
51) Chlorobenzene	9.48	112	681974	50.038	ug/L	97
52) Ethylbenzene	9.60	91	1114001	51.041	ug/L	98
53) m,p-Xylene	9.72	106	434678	53.076	ug/L	96
54) o-xylene	10.13	106	426338	53.262	ug/L	99
55) Styrene	10.14	104	708699	53.349	ug/L	97
56) Isopropylbenzene	10.51	105	1072954	53.341	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	420723	48.853	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	331041	48.671	ug/L	99
61) Bromoform	10.32	173	226857	46.634	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	489552	48.667	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	489037	47.856	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	487527	47.606	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	71998	45.344	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	273995	47.147	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	160396	41.202	ug/L	99
69) Naphthalene	14.11	128	389618	39.020	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	169961	40.521	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 46.631 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

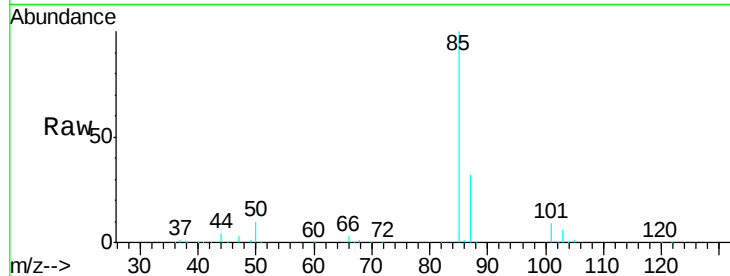
VSTD05041

Tgt Ion: 85 Resp: 257195

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035660.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035660.D (-9) (-)

1.39

250000

200000

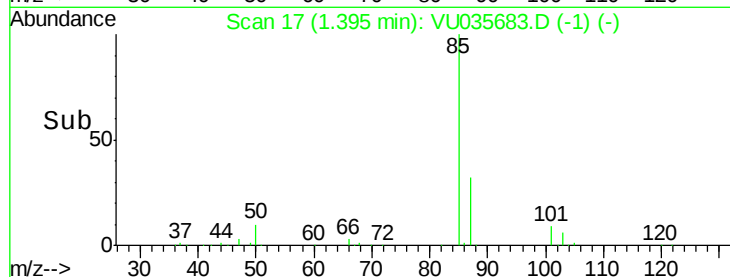
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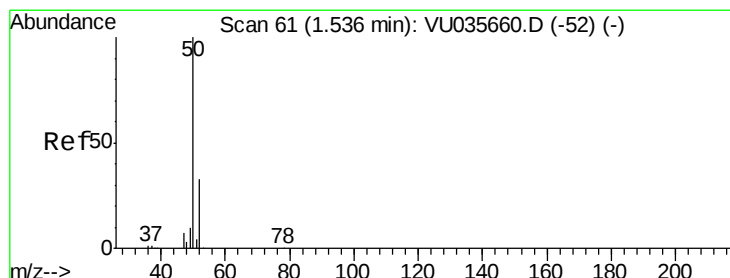
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 48.986 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035683.D

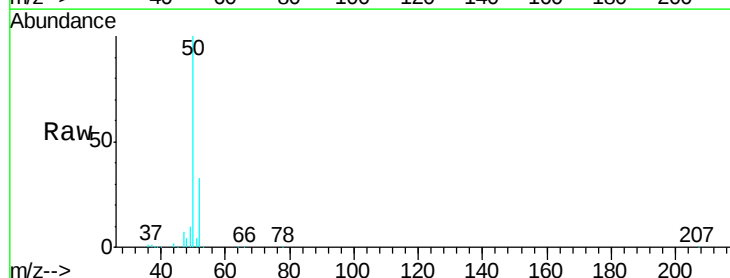
Acq: 11 Nov 2019 09:56

Tgt Ion: 50 Resp: 294458

Ion Ratio Lower Upper

50 100

52 33.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035660.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035660.D (-52) (-)

1.54

300000

250000

200000

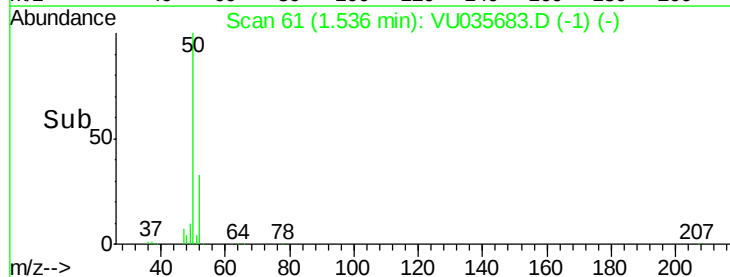
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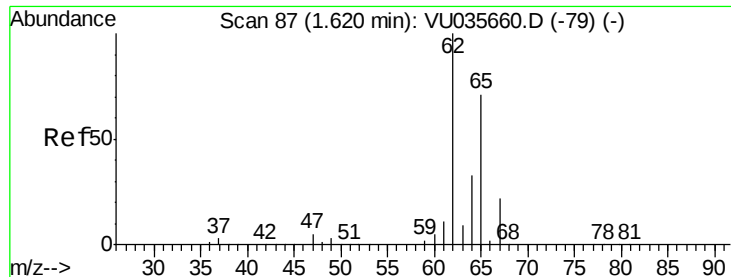
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 46.710 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

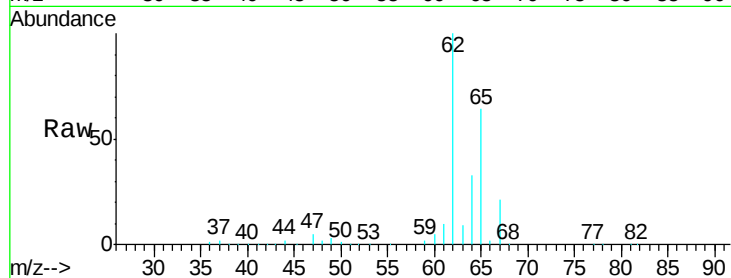
VSTD05041

Tgt Ion: 62 Resp: 302105

Ion Ratio Lower Upper

62 100

64 33.1 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035660.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU035660.D (-79) (-)

1.62

250000

200000

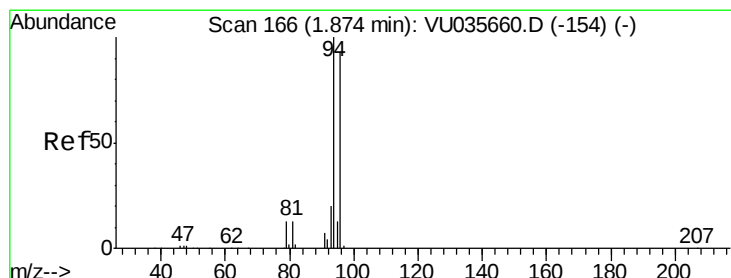
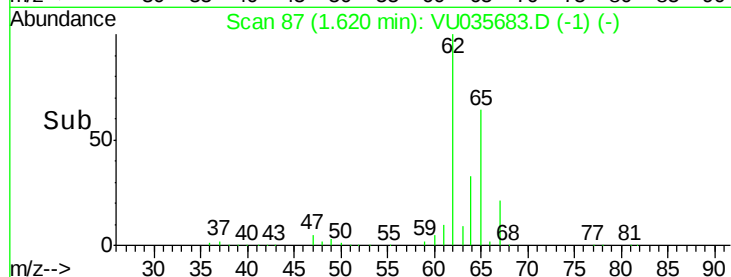
150000

100000

50000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 54.432 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035683.D

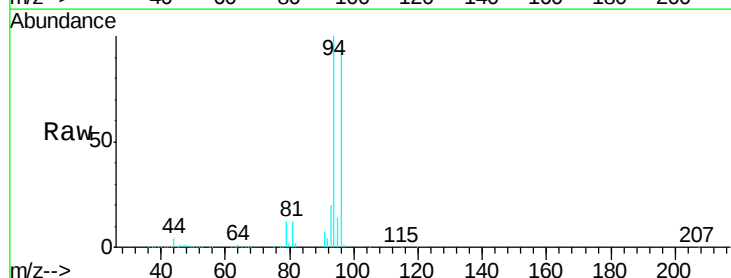
Acq: 11 Nov 2019 09:56

Tgt Ion: 94 Resp: 178317

Ion Ratio Lower Upper

94 100

96 92.7 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035660.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU035660.D (-154) (-)

1.87

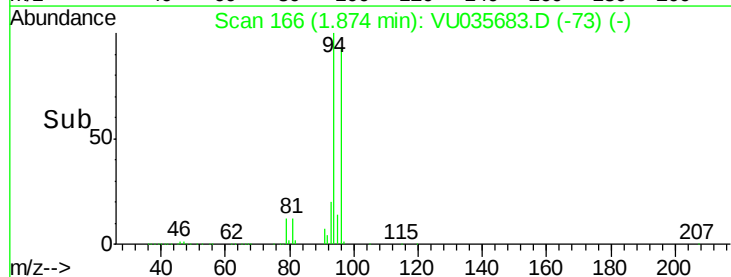
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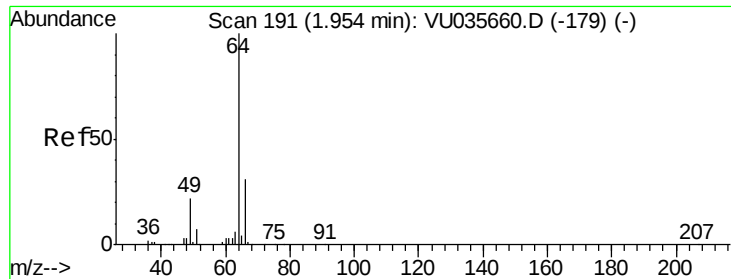
100000

50000

0

Time--> 1.80 1.85 1.90 1.95





#8

Chloroethane

Concen: 47.946 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampled :

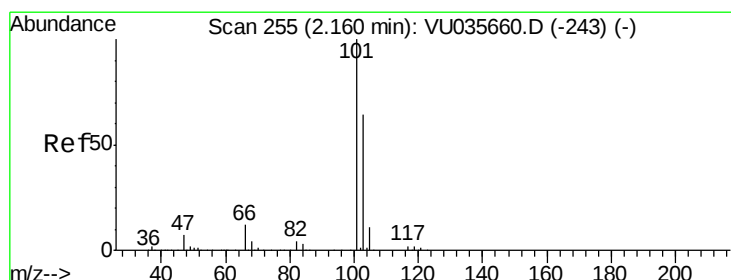
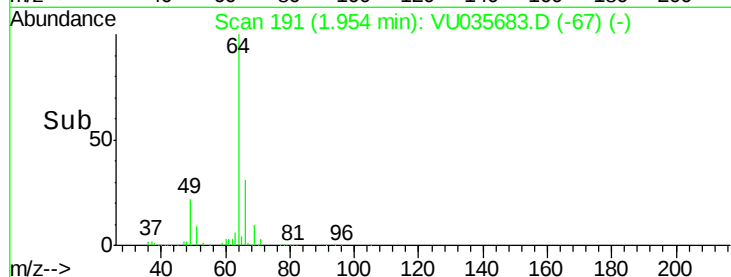
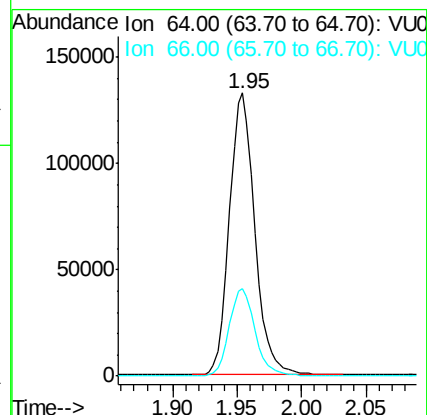
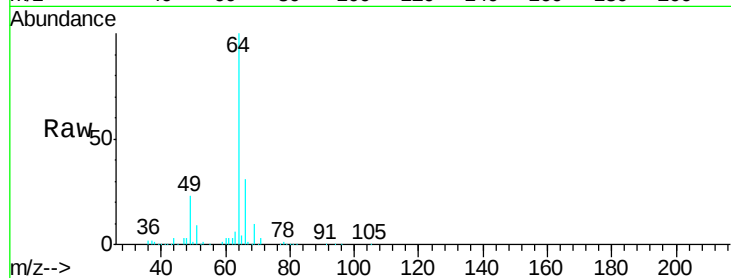
VSTD05041

Tgt Ion: 64 Resp: 180359

Ion Ratio Lower Upper

64 100

66 31.1 22.8 42.4



#9

Trichlorofluoromethane

Concen: 48.590 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035683.D

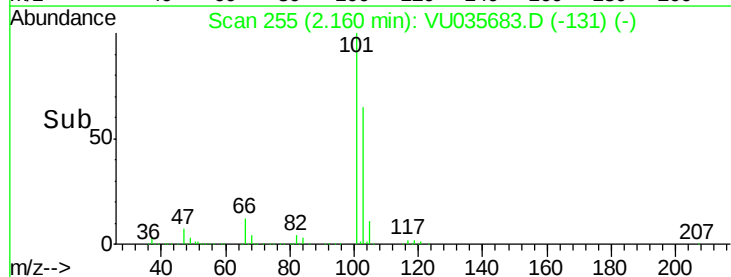
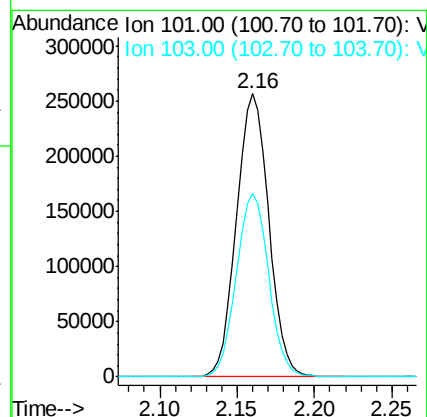
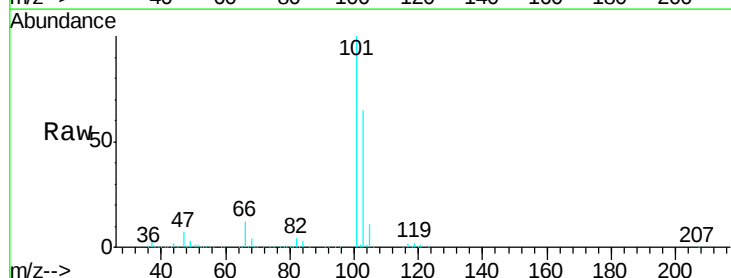
Acq: 11 Nov 2019 09:56

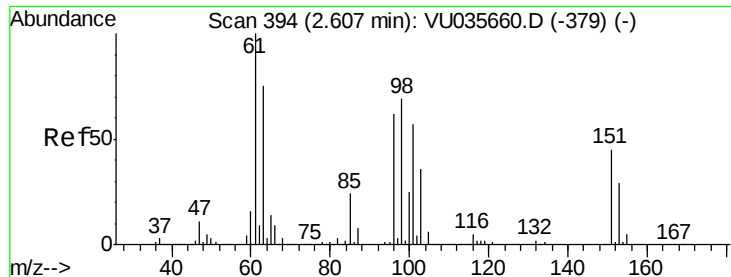
Tgt Ion: 101 Resp: 372269

Ion Ratio Lower Upper

101 100

103 64.8 51.8 77.6





#10

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

Concen: 50.015 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

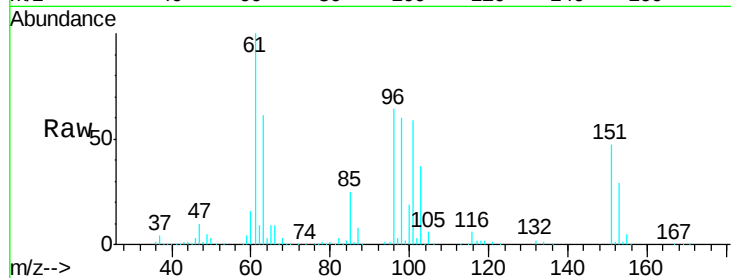
Tgt Ion: 101 Resp: 219984

Ion Ratio Lower Upper

101 100

85 43.0 34.0 51.0

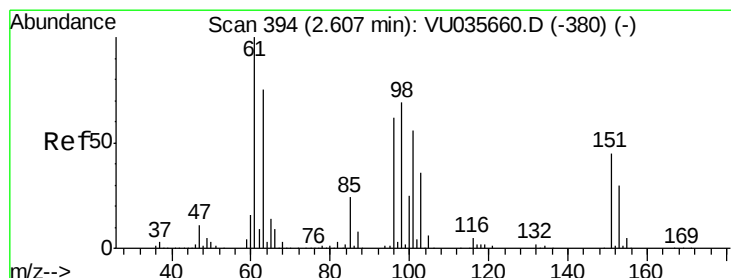
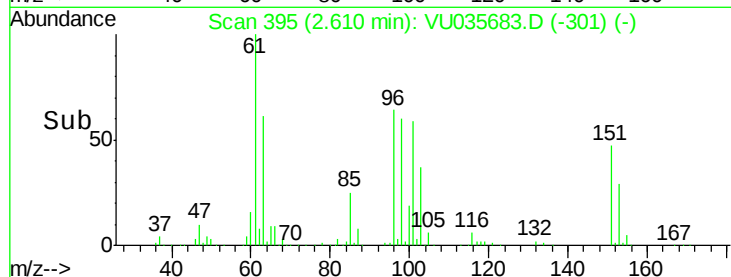
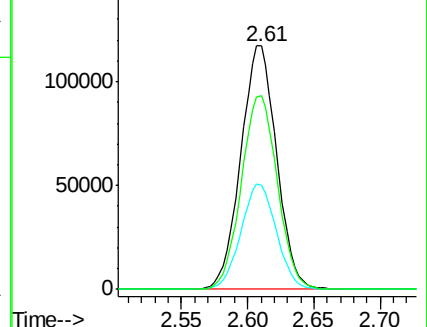
151 80.3 64.2 96.4



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: 48.455 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

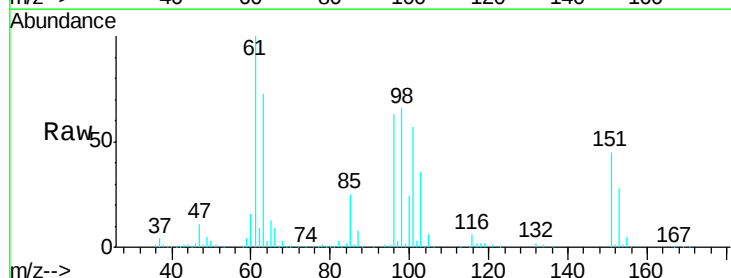
Tgt Ion: 96 Resp: 209337

Ion Ratio Lower Upper

96 100

61 158.9 113.1 210.1

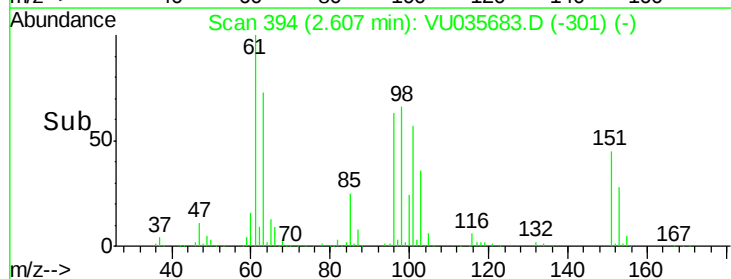
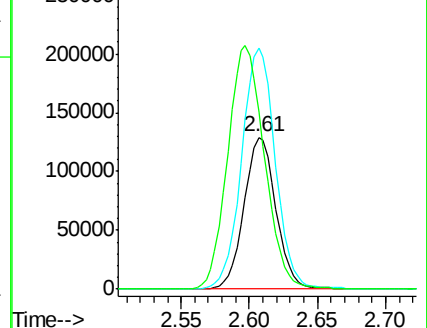
63 116.6 76.2 141.4

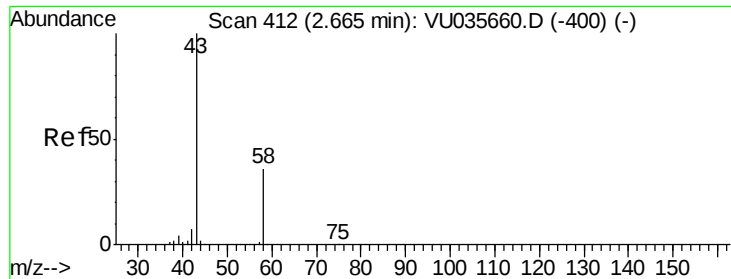


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 125.935 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

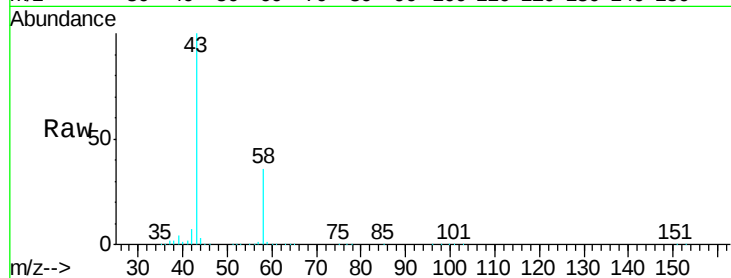
VSTD05041

Tgt Ion: 43 Resp: 369696

Ion Ratio Lower Upper

43 100

58 36.3 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035660.D (-400) (-)

Ion 58.00 (57.70 to 58.70): VU035660.D (-400) (-)

2.66

200000

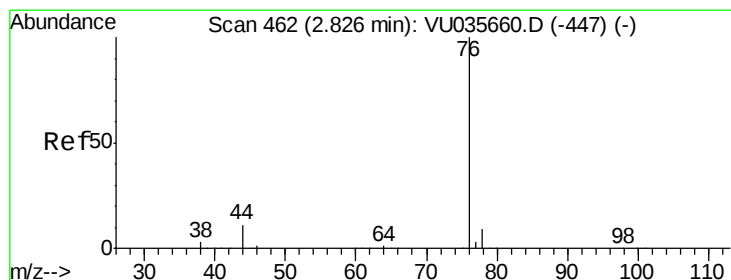
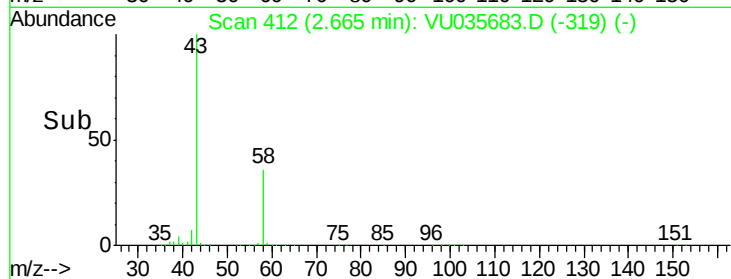
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 47.735 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035683.D

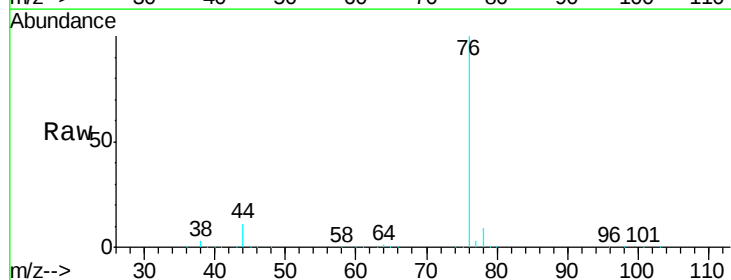
Acq: 11 Nov 2019 09:56

Tgt Ion: 76 Resp: 635361

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035660.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU035660.D (-447) (-)

2.82

400000

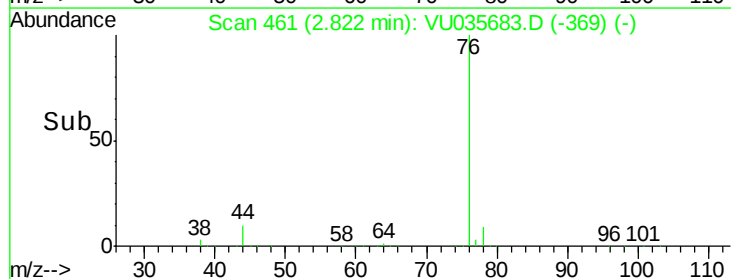
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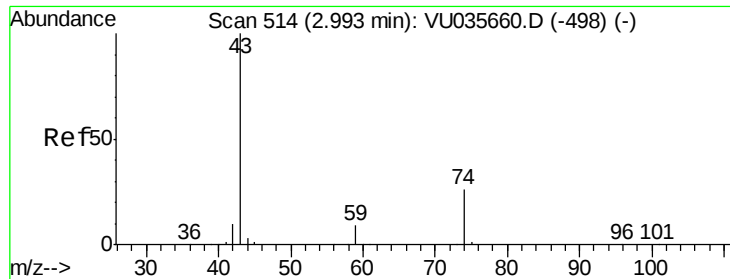
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100000

0

Time-->

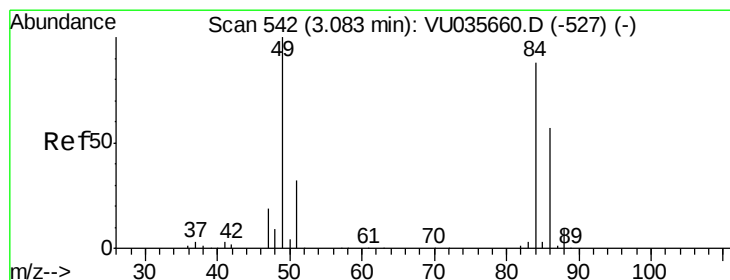
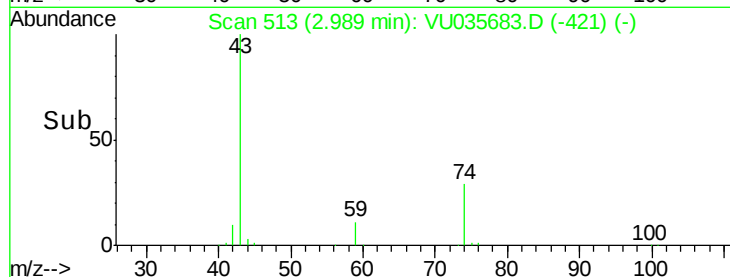
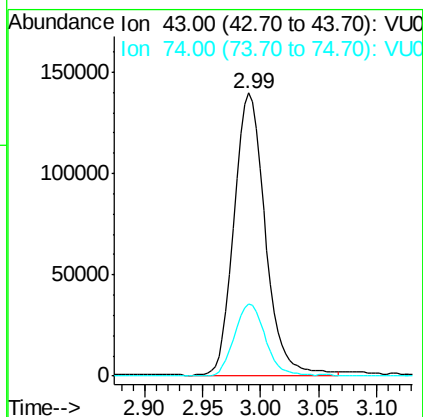
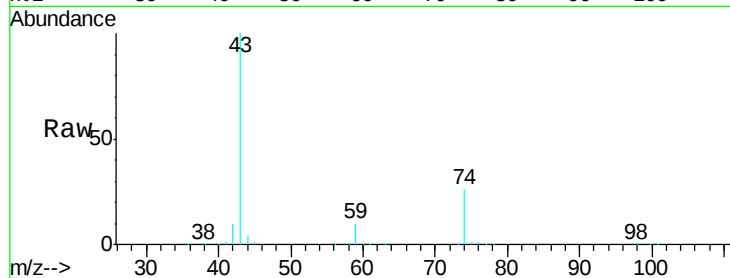




#15
Methyl Acetate
Concen: 48.769 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

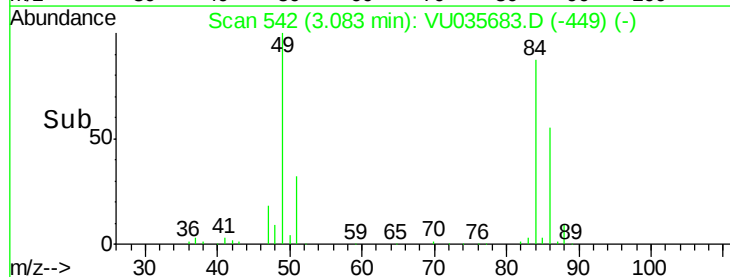
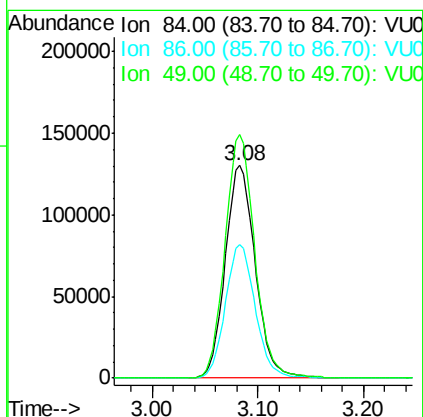
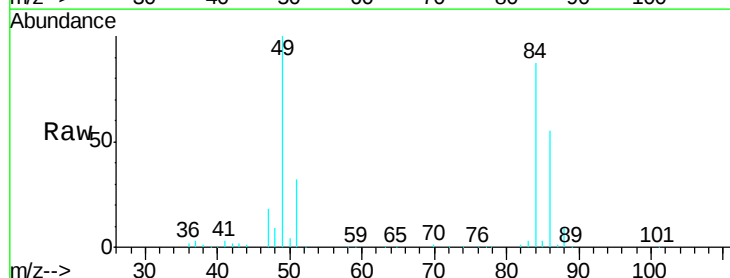
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

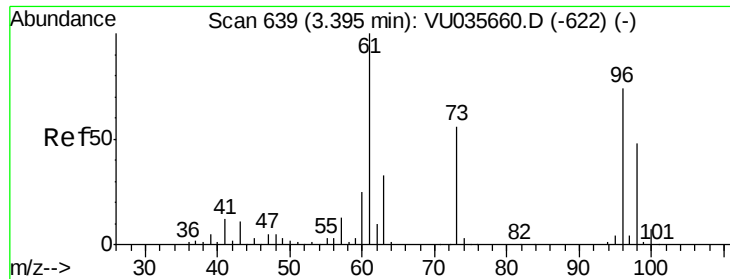
Tgt Ion: 43 Resp: 259311
Ion Ratio Lower Upper
43 100
74 25.6 19.8 29.6



#16
Methylene chloride
Concen: 48.729 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Tgt Ion: 84 Resp: 256867
Ion Ratio Lower Upper
84 100
86 62.9 45.1 83.7
49 114.6 82.7 153.5

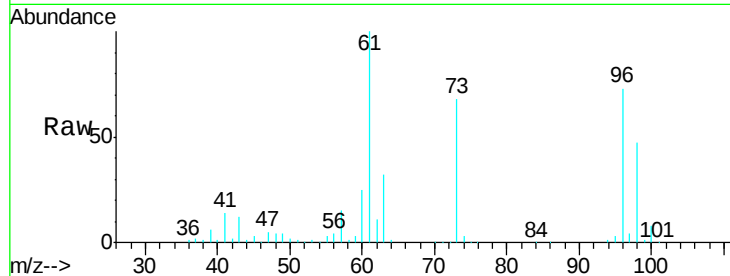




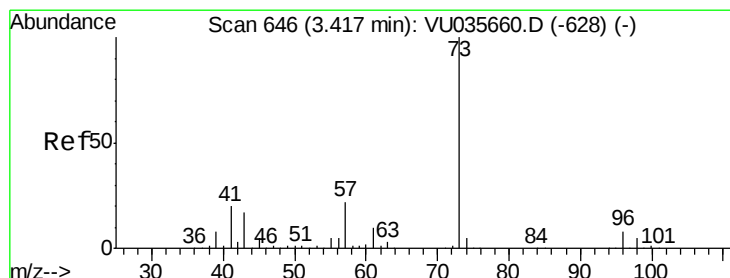
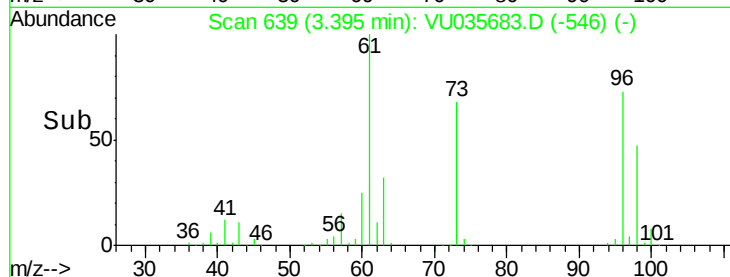
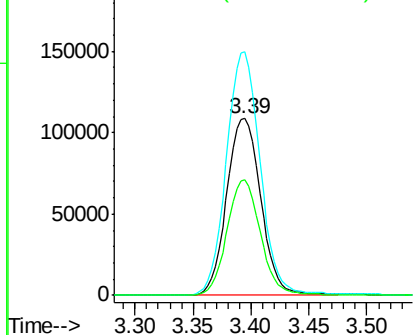
#17
trans-1,2-Dichloroethene
Concen: 49.256 ug/L
RT: 3.39 min Scan# 639
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

Tgt Ion: 96 Resp: 224091
Ion Ratio Lower Upper
96 100
61 137.8 95.3 176.9
98 65.1 44.0 81.8

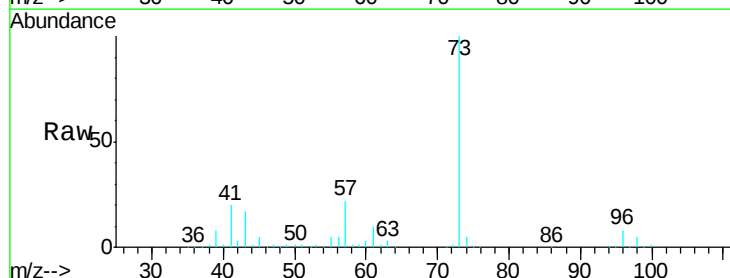


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

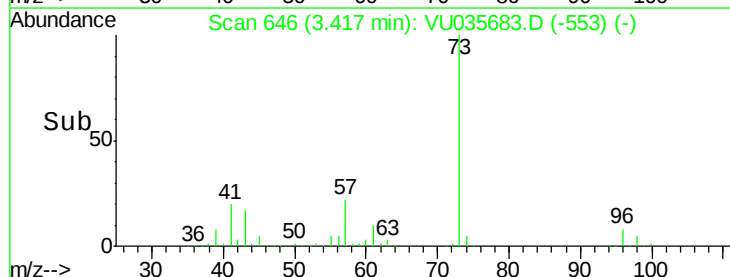
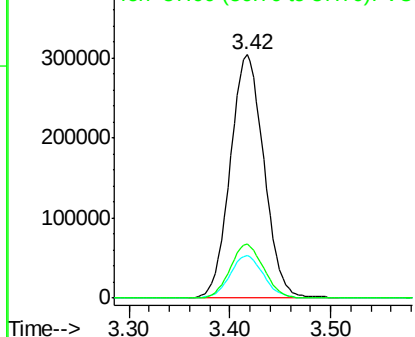


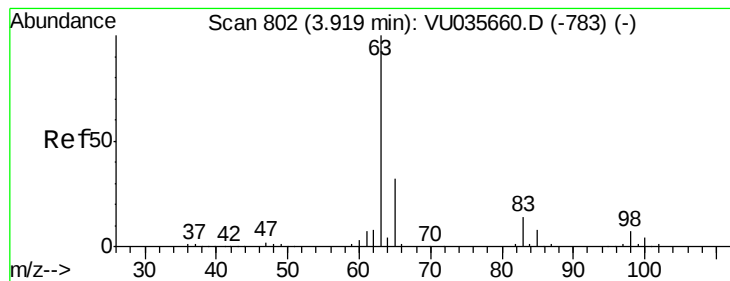
#18
Methyl tert-butyl Ether
Concen: 51.261 ug/L
RT: 3.42 min Scan# 646
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Tgt Ion: 73 Resp: 705095
Ion Ratio Lower Upper
73 100
43 17.1 14.2 21.2
57 22.1 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 47.758 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

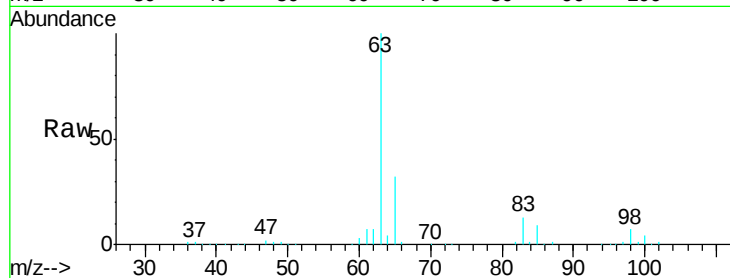
Tgt Ion: 63 Resp: 419134

Ion Ratio Lower Upper

63 100

65 31.5 22.1 41.1

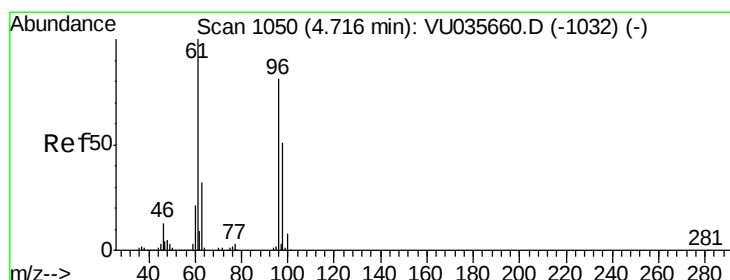
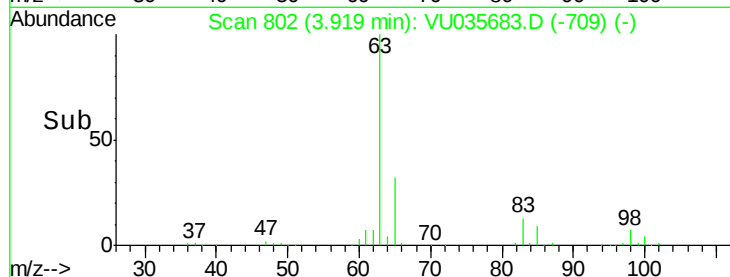
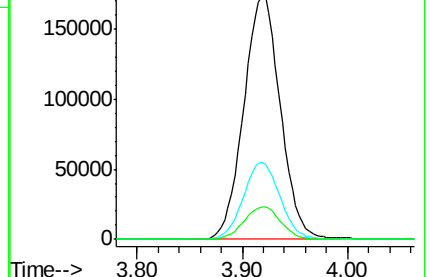
83 13.3 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035660.D (-783) (-)

Ion 65.00 (64.70 to 65.70): VU035660.D (-783) (-)

Ion 83.00 (82.70 to 83.70): VU035660.D (-783) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.684 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

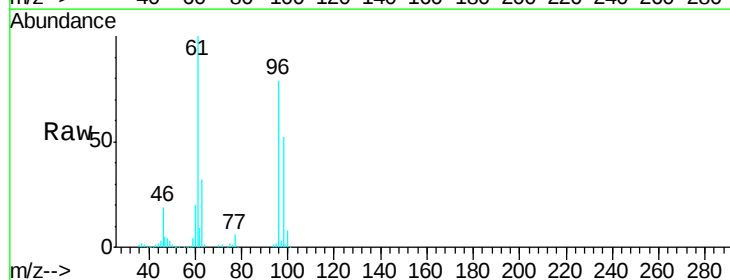
Tgt Ion: 96 Resp: 254952

Ion Ratio Lower Upper

96 100

61 126.3 90.6 168.3

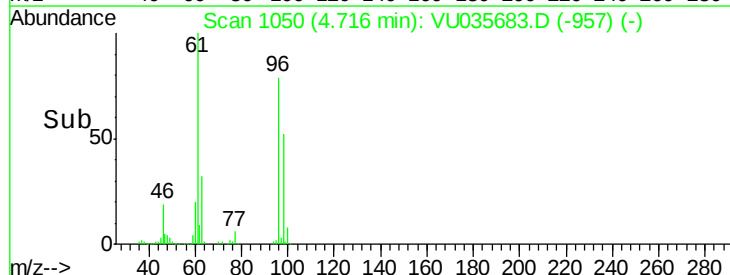
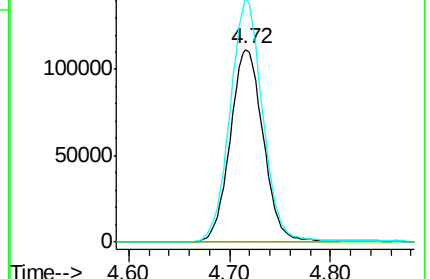
68 0.0 0.0 0.0

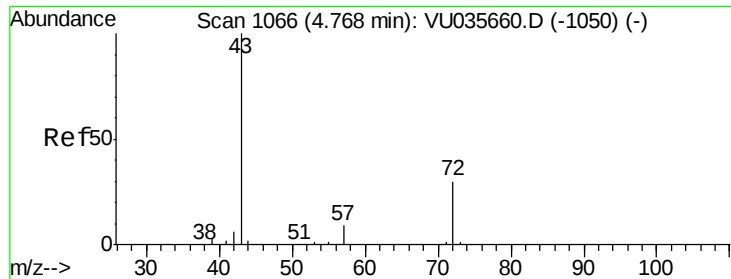


Abundance Ion 96.00 (95.70 to 96.70): VU035660.D (-1032) (-)

Ion 61.00 (60.70 to 61.70): VU035660.D (-1032) (-)

Ion 68.00 (67.70 to 68.70): VU035660.D (-1032) (-)





#22

2-Butanone

Concen: 111.260 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

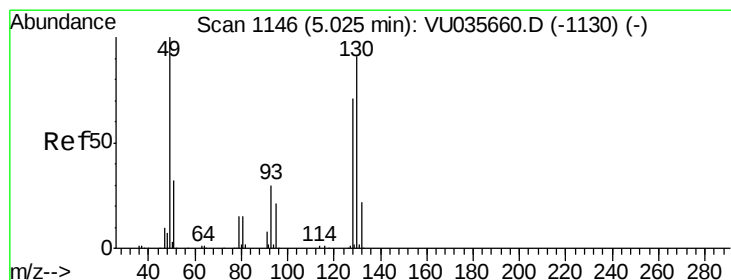
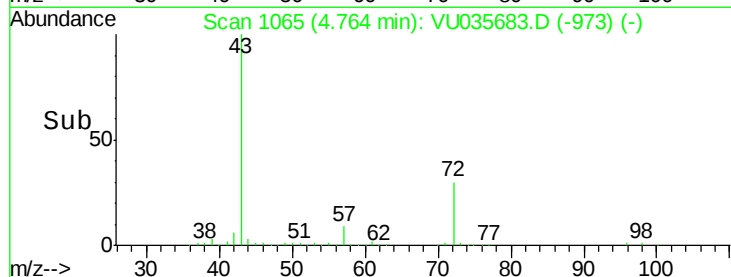
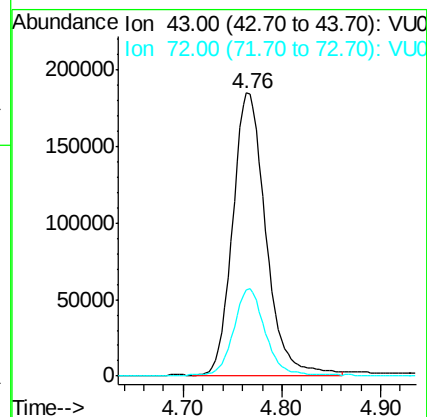
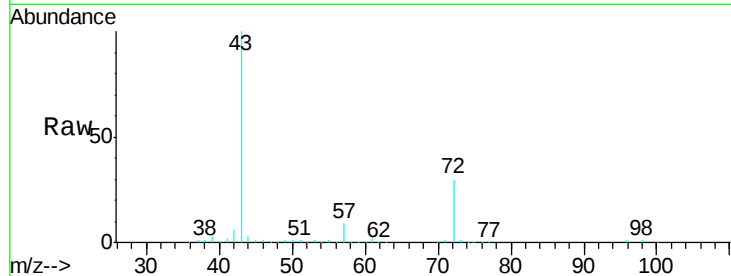
VSTD05041

Tgt Ion: 43 Resp: 431157

Ion Ratio Lower Upper

43 100

72 29.1 13.5 40.4



#23

Bromochloromethane

Concen: 49.551 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Tgt Ion: 128 Resp: 134365

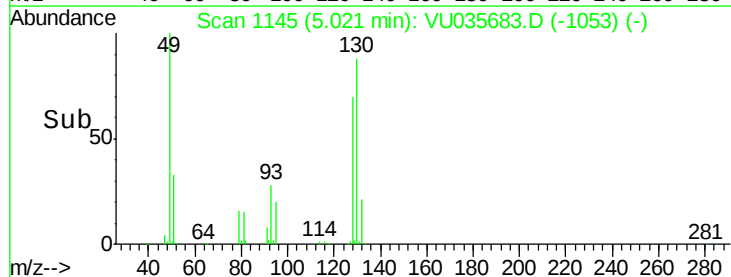
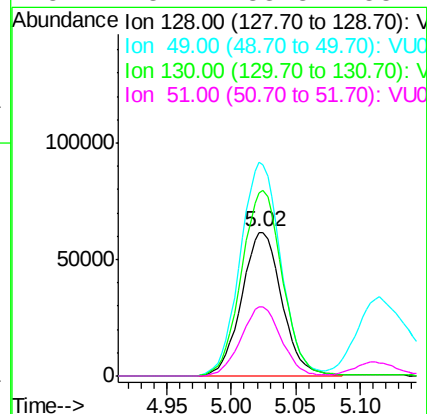
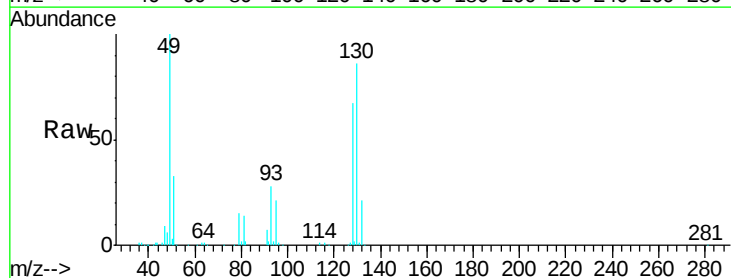
Ion Ratio Lower Upper

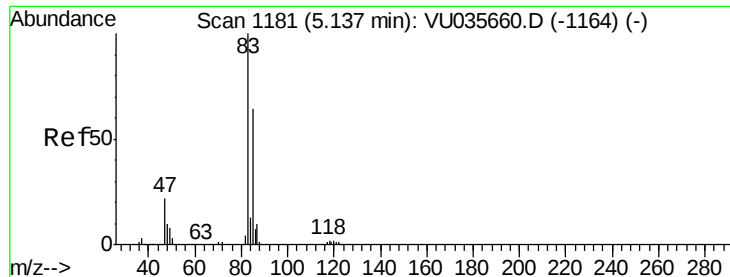
128 100

49 148.3 106.4 197.6

130 127.2 88.1 163.5

51 48.4 38.8 58.2





#25

Chloroform

Concen: 47.661 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

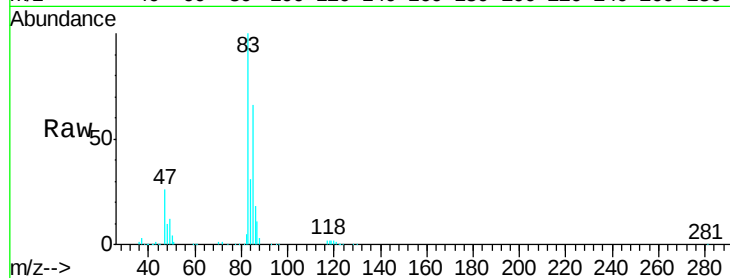
VSTD05041

Tgt Ion: 83 Resp: 424805

Ion Ratio Lower Upper

83 100

85 66.3 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU035660.D (-1164) (-)

Ion 85.00 (84.70 to 85.70): VU035660.D (-1164) (-)

5.13

200000

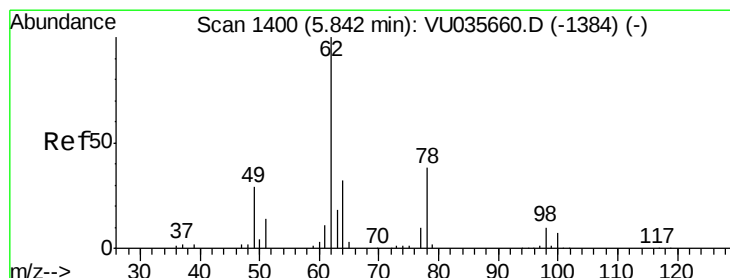
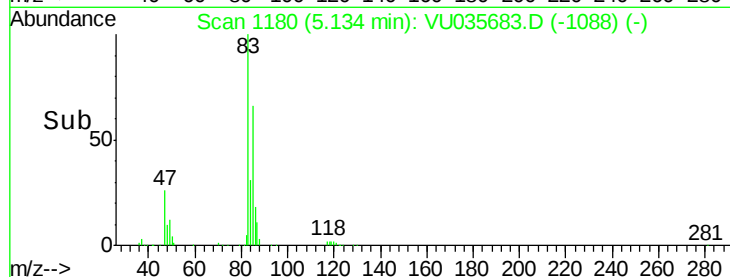
150000

100000

50000

0

Time--> 5.00 5.10 5.20



#27

1,2-Dichloroethane

Concen: 48.383 ug/L

RT: 5.84 min Scan# 1399

Delta R.T. -0.00 min

Lab File: VU035683.D

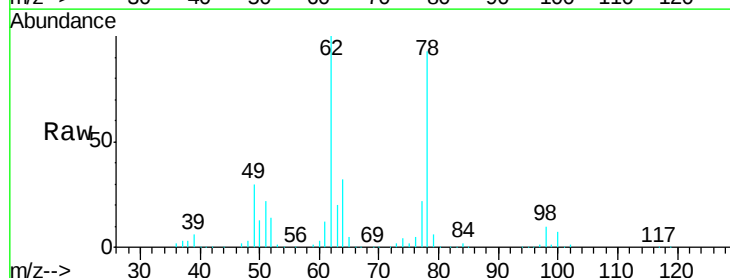
Acq: 11 Nov 2019 09:56

Tgt Ion: 62 Resp: 315059

Ion Ratio Lower Upper

62 100

98 9.9 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VU035660.D (-1384) (-)

Ion 98.00 (97.70 to 98.70): VU035660.D (-1384) (-)

5.84

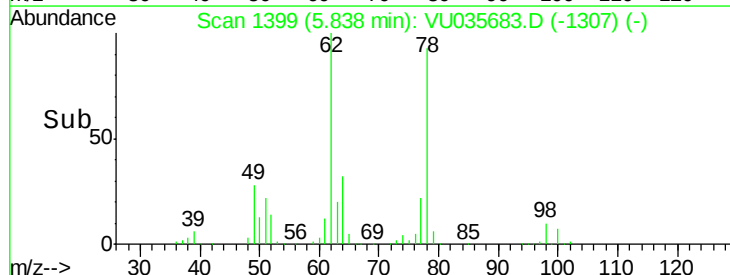
150000

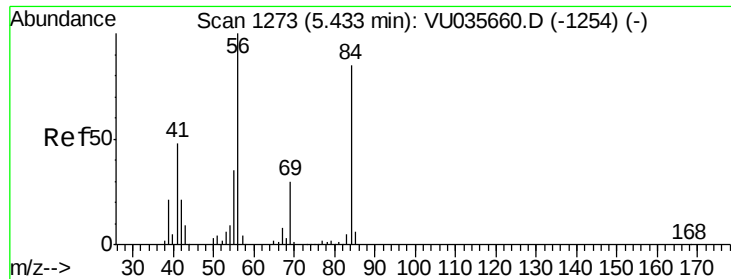
100000

50000

0

Time--> 5.75 5.80 5.85 5.90 5.95

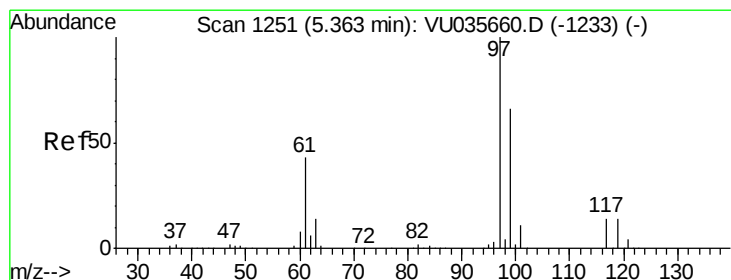
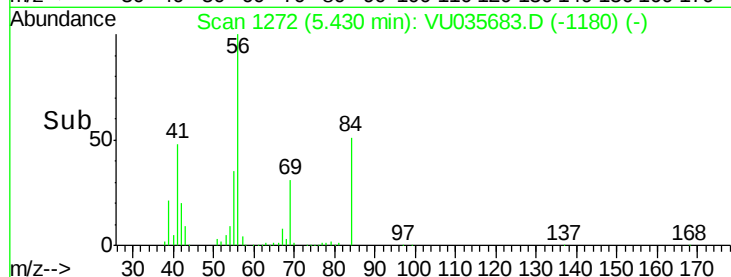
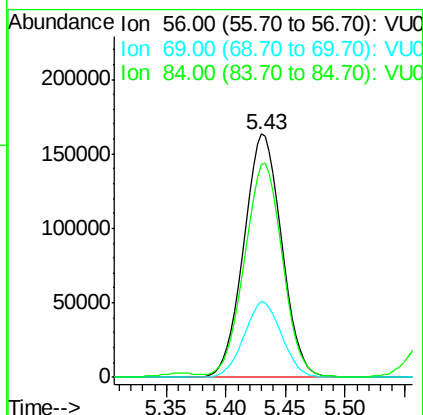
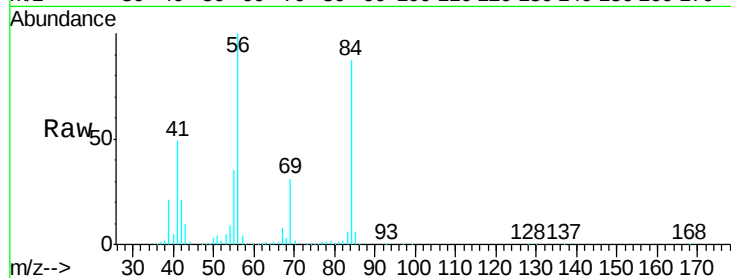




#29
Cyclohexane
Concen: 51.112 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

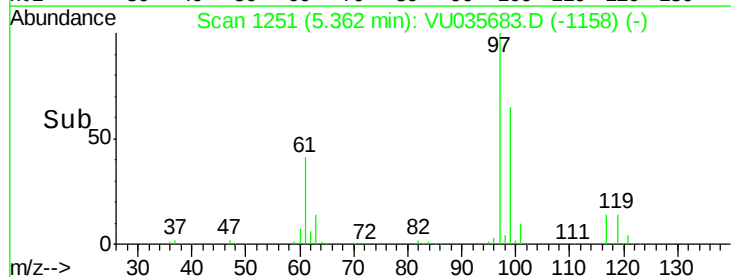
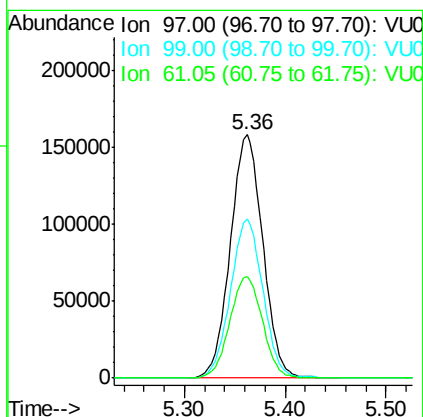
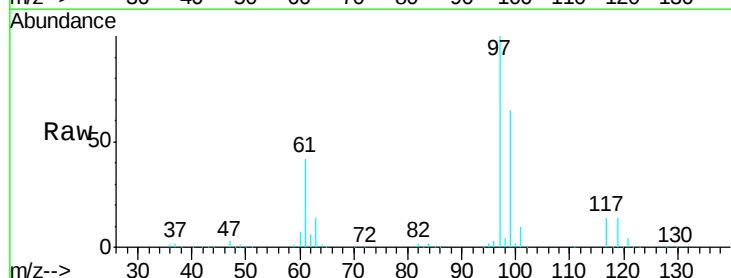
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

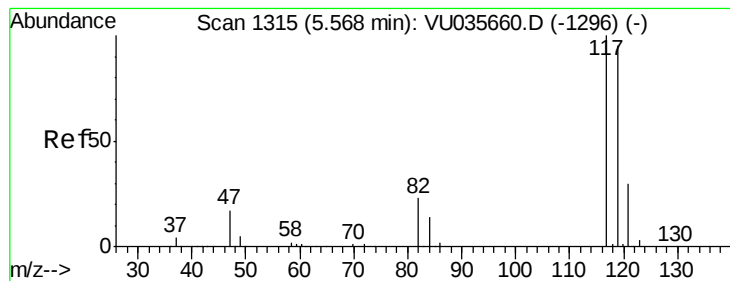
Tgt Ion: 56 Resp: 361337
Ion Ratio Lower Upper
56 100
69 30.9 24.4 36.6
84 87.5 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 48.681 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Tgt Ion: 97 Resp: 354632
Ion Ratio Lower Upper
97 100
99 65.0 51.5 77.3
61 41.5 35.1 52.7





#31

Carbon tetrachloride

Concen: 49.386 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

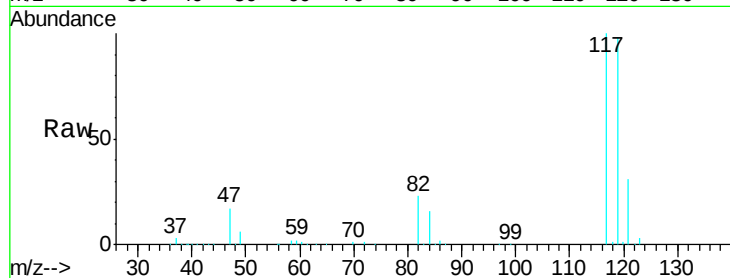
VSTD05041

Tgt Ion:117 Resp: 319893

Ion Ratio Lower Upper

117 100

119 95.8 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.57

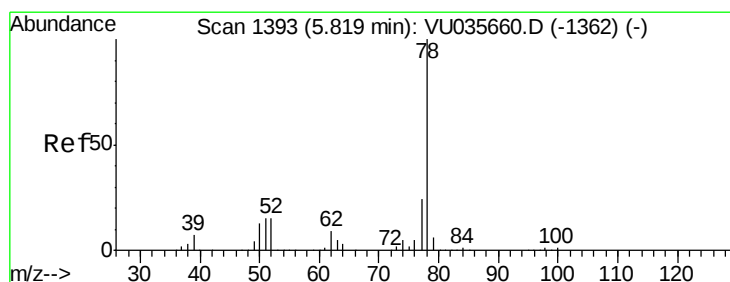
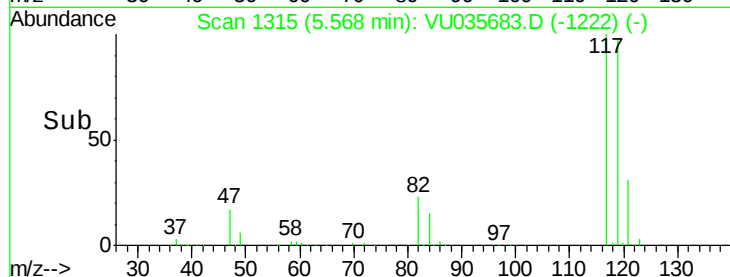
150000

100000

50000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 49.254 ug/L

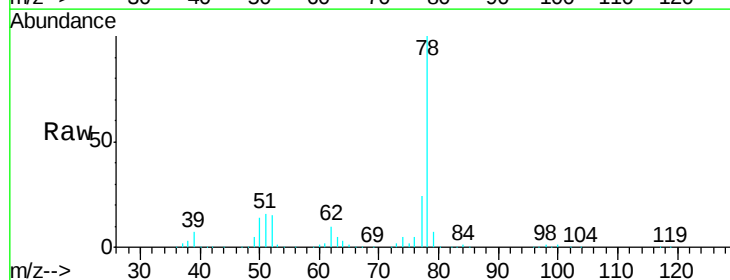
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Tgt Ion: 78 Resp: 959416



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.82

500000

400000

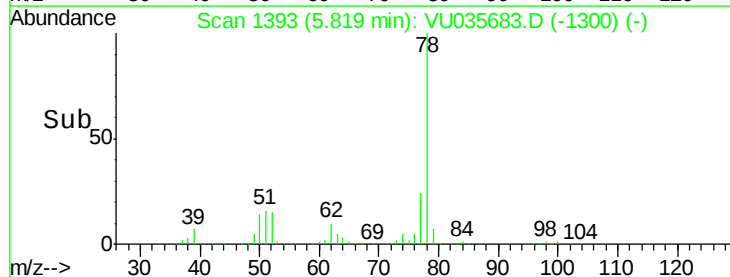
300000

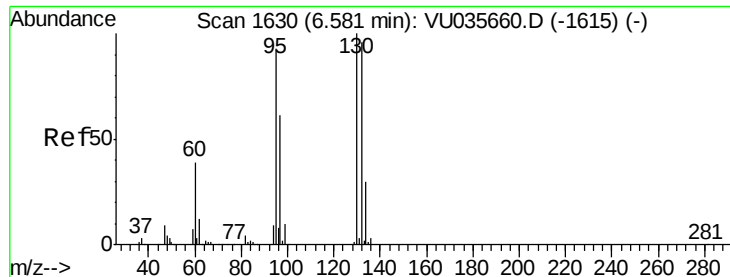
200000

100000

0

Time--> 5.70 5.80 5.90

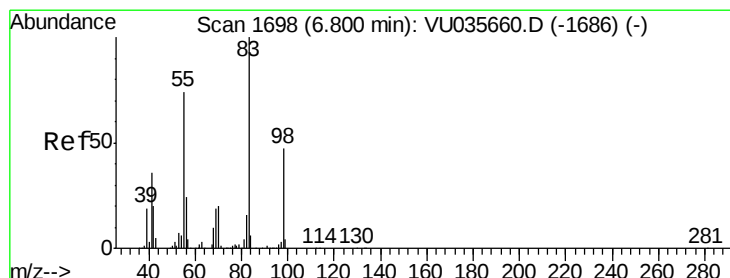
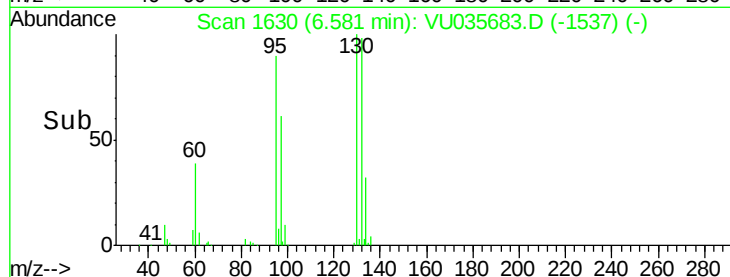
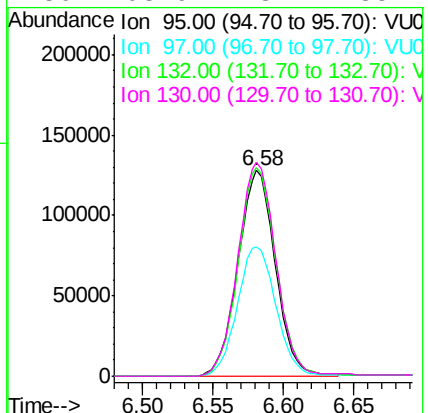
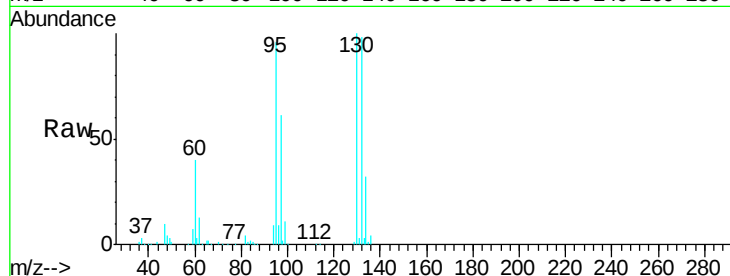




#34
 Trichloroethene
 Concen: 48.010 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

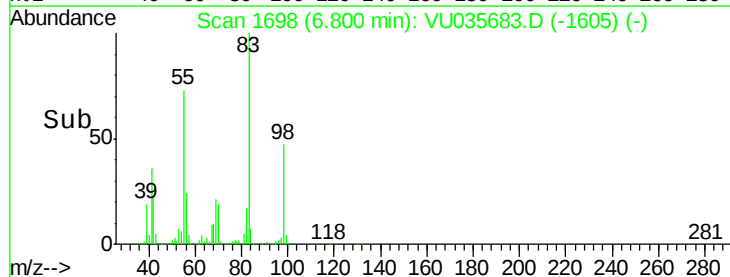
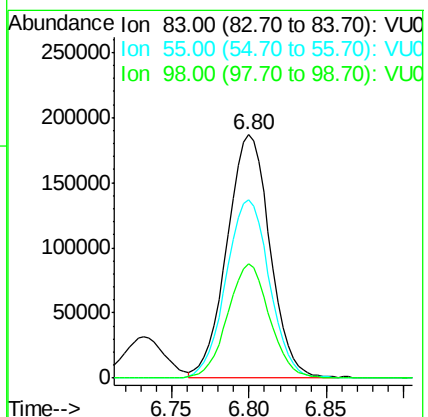
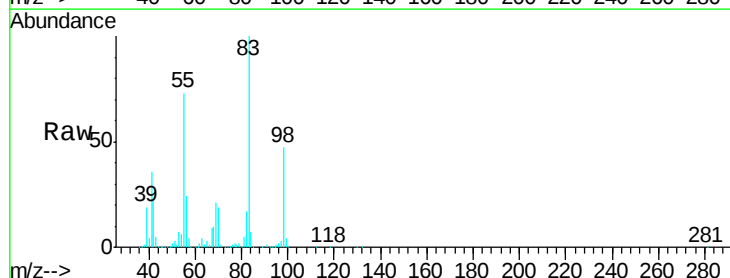
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

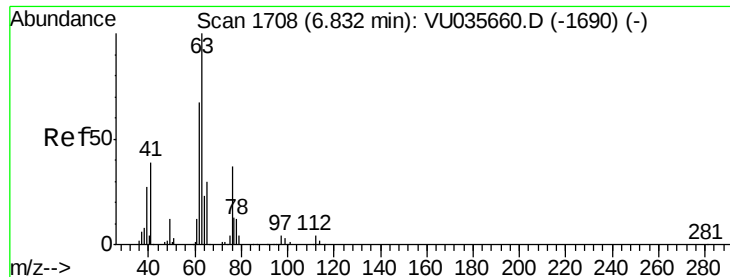
Tgt Ion: 95 Resp: 237748
 Ion Ratio Lower Upper
 95 100
 97 63.1 45.6 84.6
 132 101.6 69.9 129.7
 130 103.9 73.1 135.7



#35
 Methylcyclohexane
 Concen: 49.723 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

Tgt Ion: 83 Resp: 357611
 Ion Ratio Lower Upper
 83 100
 55 74.6 61.0 91.4
 98 46.1 36.6 54.8





#37

1,2-Dichloropropane

Concen: 49.270 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampled :

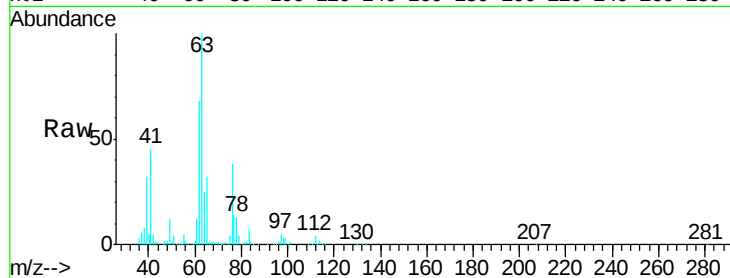
VSTD05041

Tgt Ion: 63 Resp: 257010

Ion Ratio Lower Upper

63 100

112 4.3 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU035660.D (-1690) (-)

Ion 112.00 (111.70 to 112.70): VU035660.D (-1690) (-)

6.83

150000

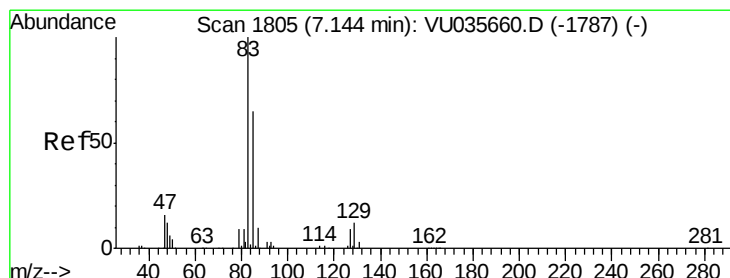
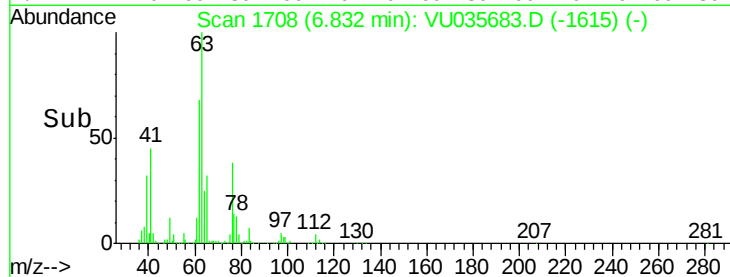
100000

50000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 48.749 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

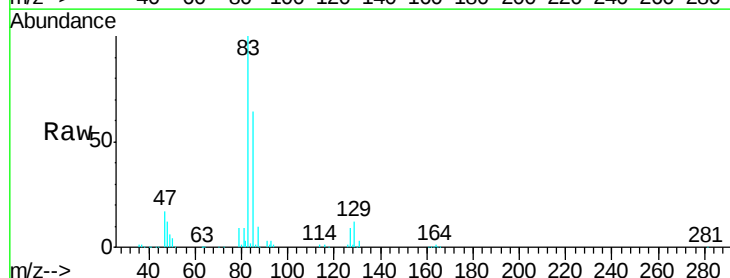
Tgt Ion: 83 Resp: 323226

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.7

127 9.1 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU035660.D (-1787) (-)

Ion 85.00 (84.70 to 85.70): VU035660.D (-1787) (-)

Ion 127.00 (126.70 to 127.70): VU035660.D (-1787) (-)

7.14

200000

150000

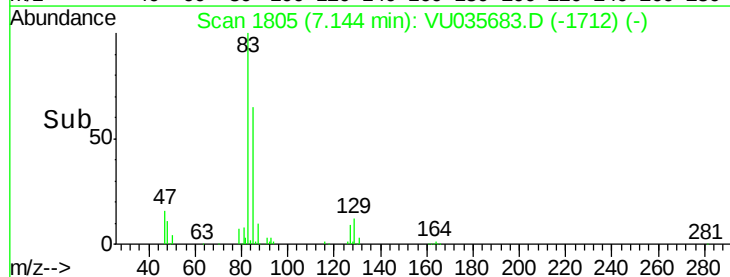
100000

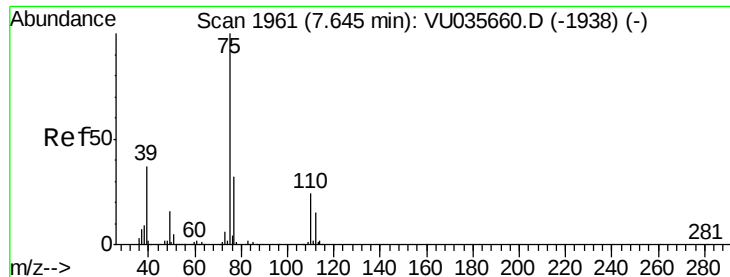
50000

0

7.05 7.10 7.15 7.20 7.25

Time-->





#39

cis-1,3-Dichloropropene

Concen: 52.881 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

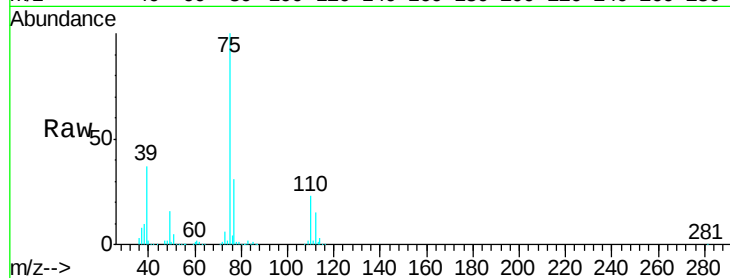
VSTD05041

Tgt Ion: 75 Resp: 410015

Ion Ratio Lower Upper

75 100

77 31.1 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU035660.D (-1938) (-)

Ion 77.00 (76.70 to 77.70): VU035660.D (-1938) (-)

7.64

250000

200000

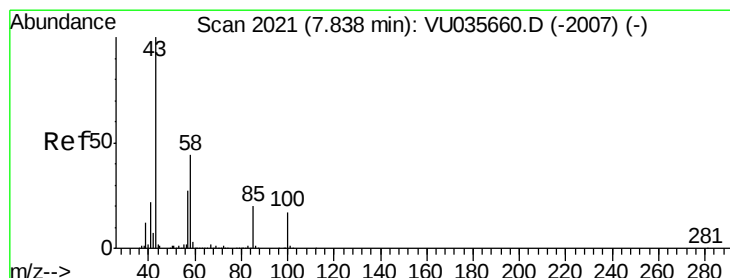
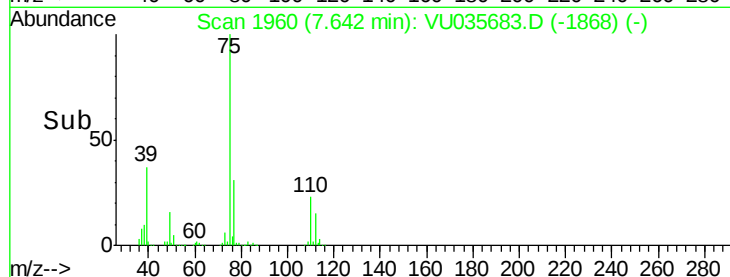
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#40

4-Methyl-2-pentanone

Concen: 98.395 ug/L

RT: 7.84 min Scan# 2021

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

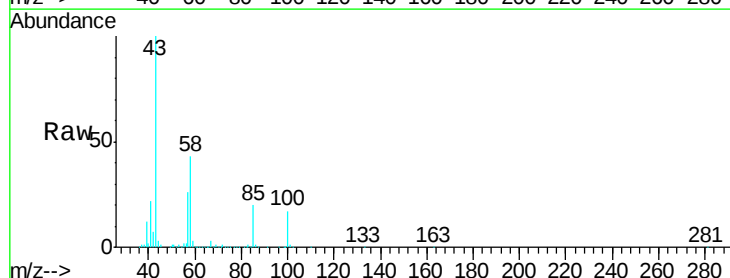
Tgt Ion: 43 Resp: 686657

Ion Ratio Lower Upper

43 100

58 42.1 32.6 49.0

100 16.0 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VU035660.D (-2007) (-)

Ion 58.00 (57.70 to 58.70): VU035660.D (-2007) (-)

Ion 100.00 (99.70 to 100.70): VU035660.D (-2007) (-)

7.84

500000

400000

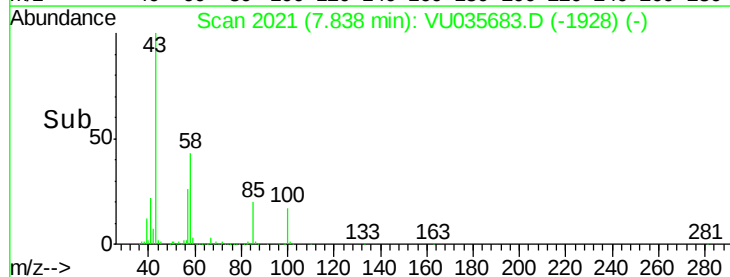
300000

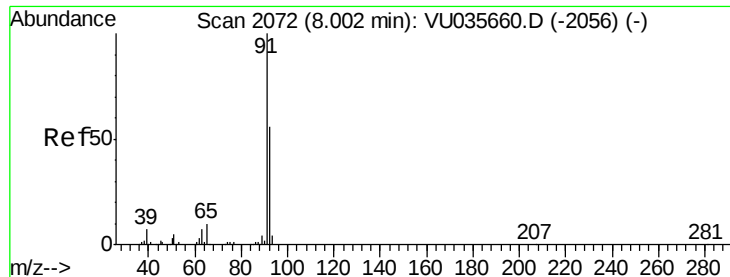
200000

100000

0

Time--> 7.70 7.80 7.90 8.00





#42

Toluene

Concen: 51.498 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

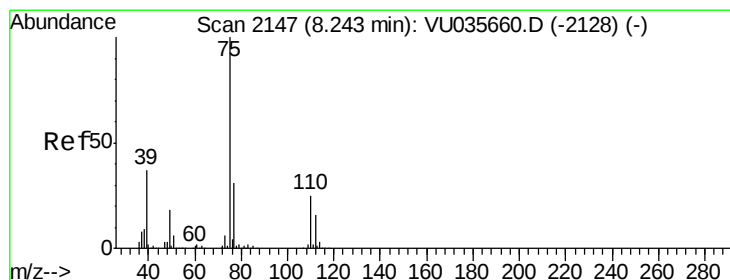
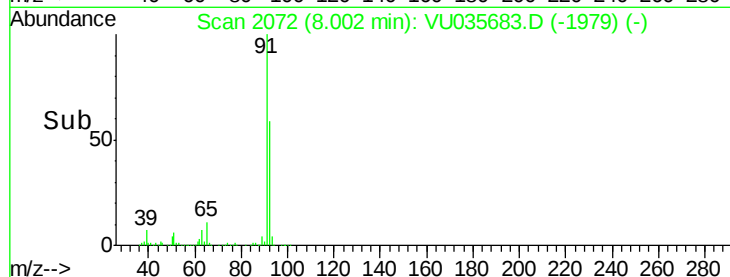
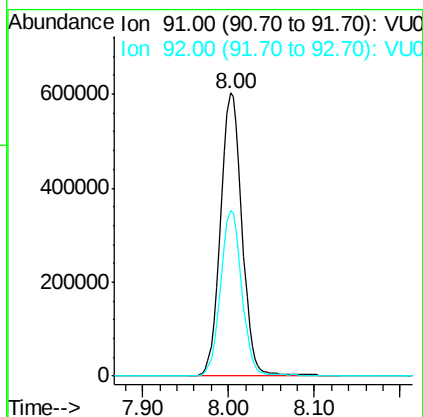
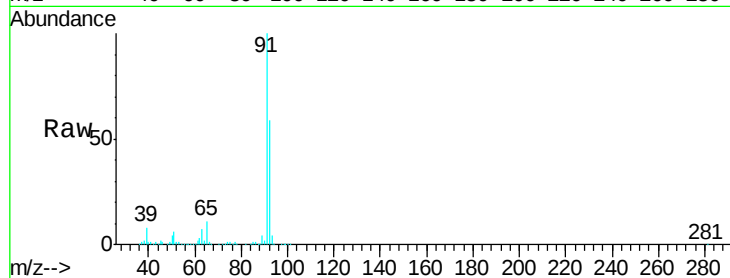
VSTD05041

Tgt Ion: 91 Resp: 1051371

Ion Ratio Lower Upper

91 100

92 58.5 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 51.170 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU035683.D

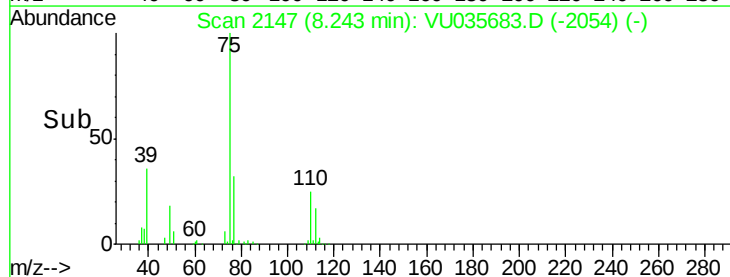
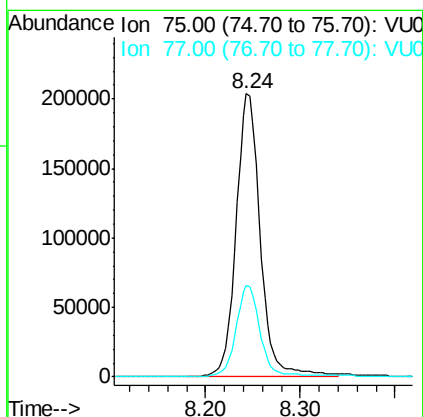
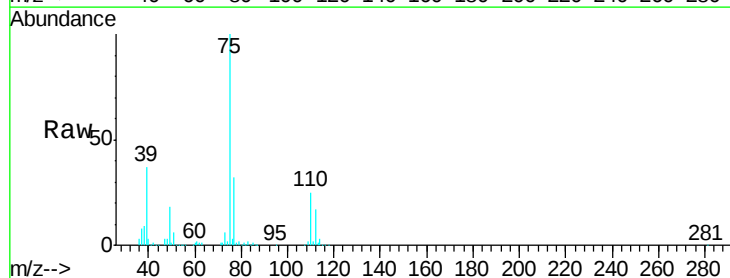
Acq: 11 Nov 2019 09:56

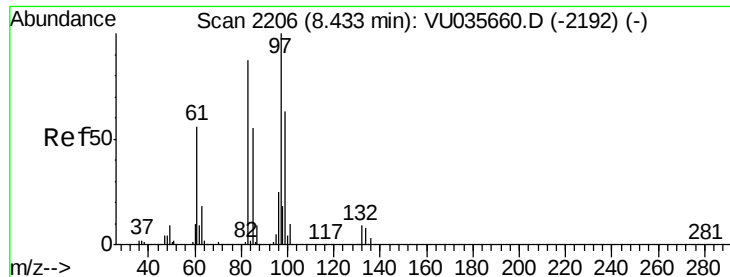
Tgt Ion: 75 Resp: 363672

Ion Ratio Lower Upper

75 100

77 32.2 22.1 41.1

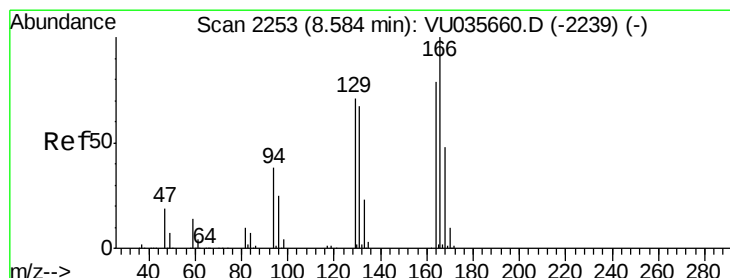
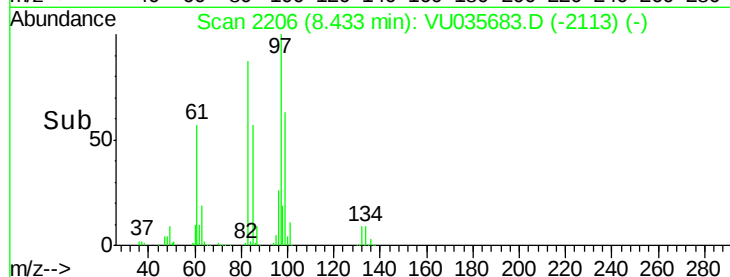
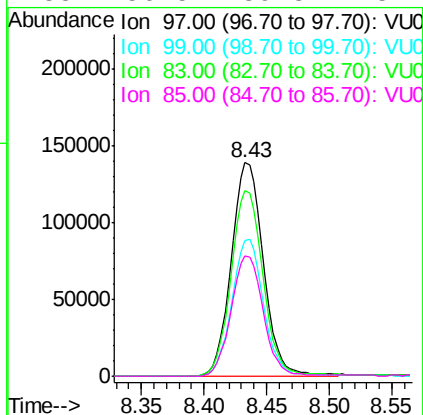
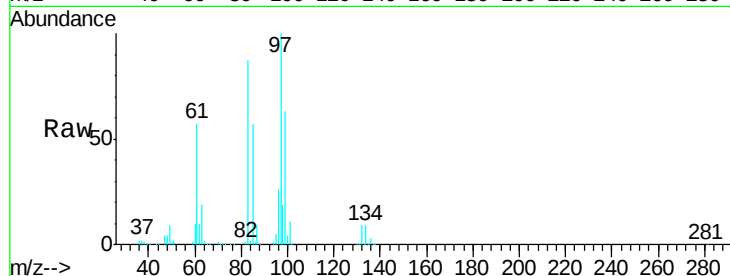




#45
 1,1,2-Trichloroethane
 Concen: 49.622 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

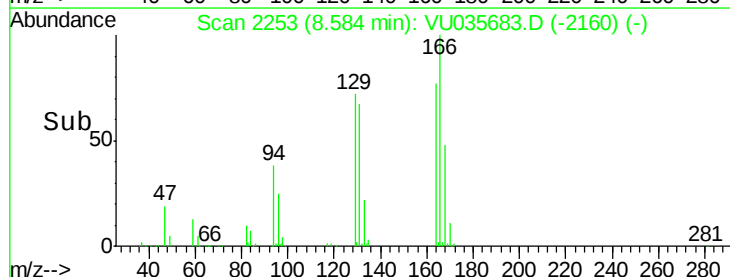
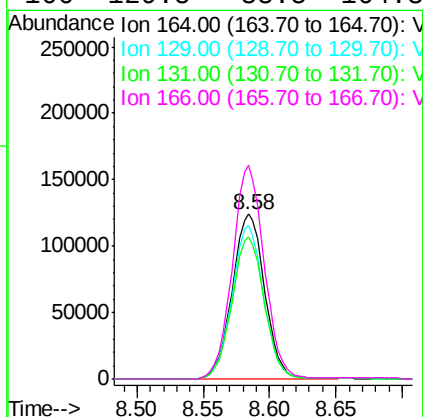
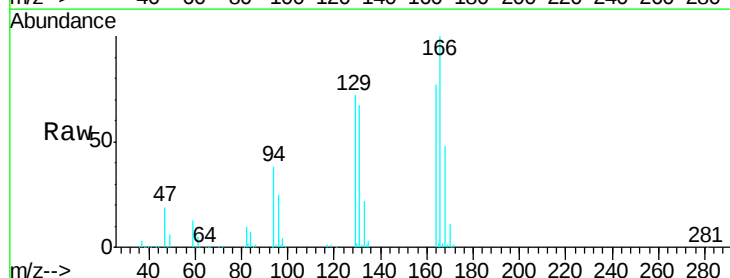
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

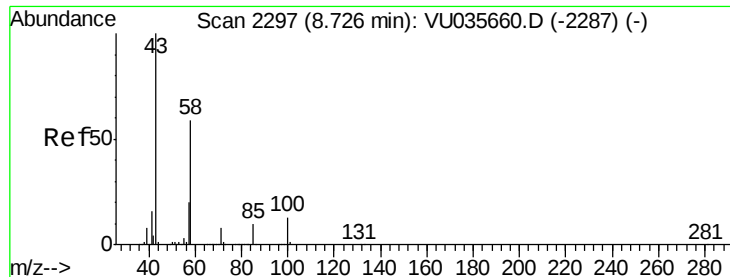
Tgt Ion:	97	Resp:	248101
Ion	Ratio	Lower	Upper
97	100		
99	63.5	44.2	82.2
83	87.0	61.5	114.3
85	56.5	39.3	73.1



#46
 Tetrachloroethene
 Concen: 51.079 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

Tgt Ion:	164	Resp:	211506
Ion	Ratio	Lower	Upper
164	100		
129	93.3	64.1	119.1
131	86.5	63.1	117.1
166	129.5	88.5	164.3

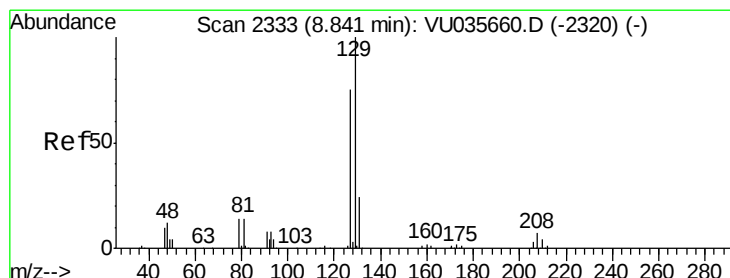
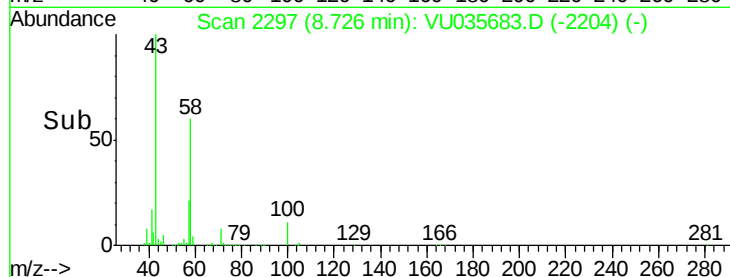
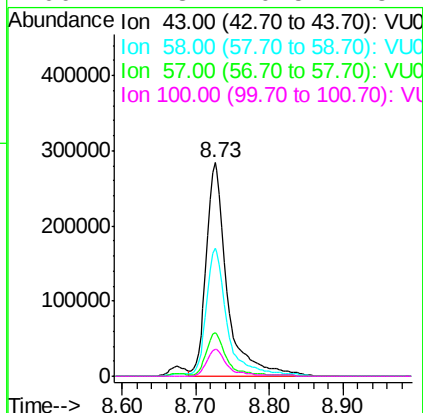
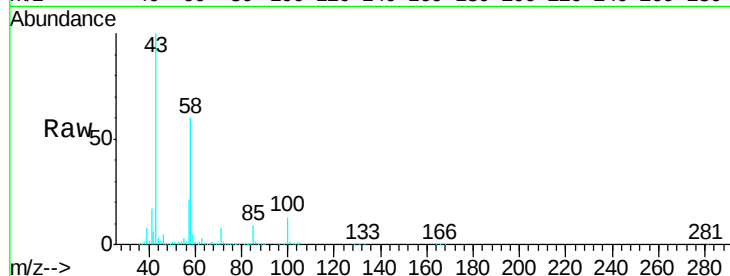




#48
2-Hexanone
Concen: 100.204 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

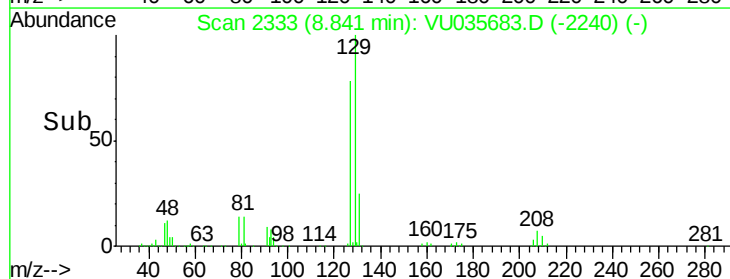
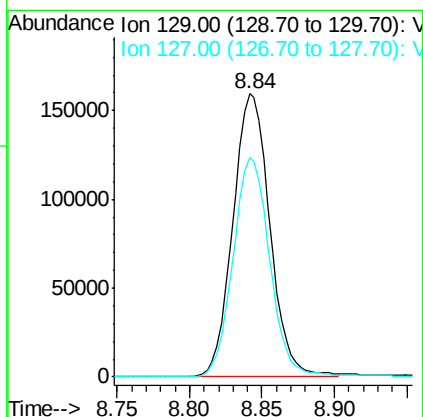
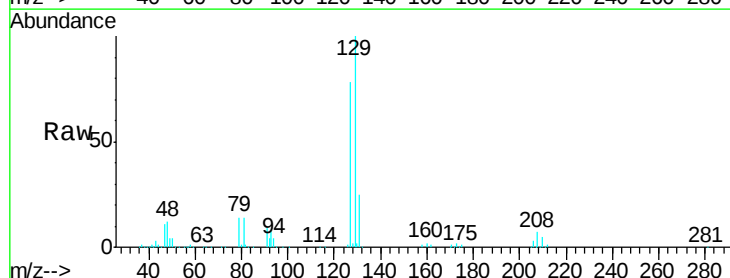
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

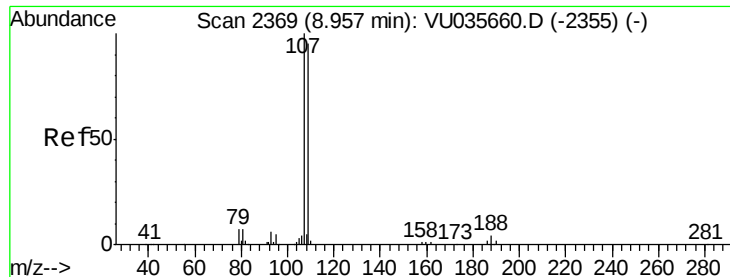
Tgt Ion:	43	Resp:	568657
Ion	Ratio	Lower	Upper
43	100		
58	60.2	50.4	75.6
57	20.6	17.4	26.0
100	12.3	10.5	15.7



#49
Dibromochloromethane
Concen: 50.137 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Tgt Ion:	129	Resp:	282695
Ion	Ratio	Lower	Upper
129	100		
127	77.6	54.9	101.9

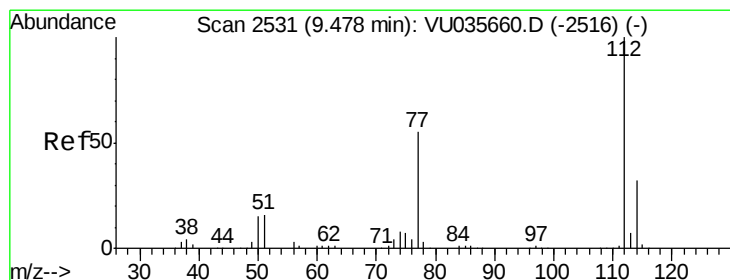
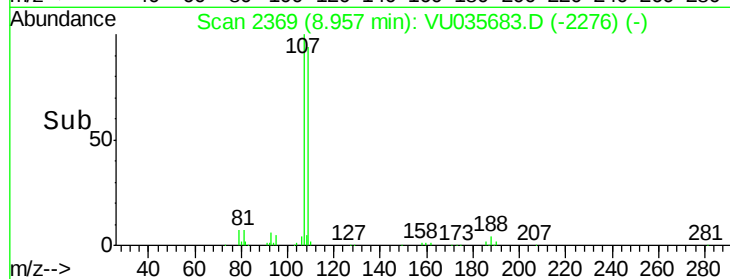
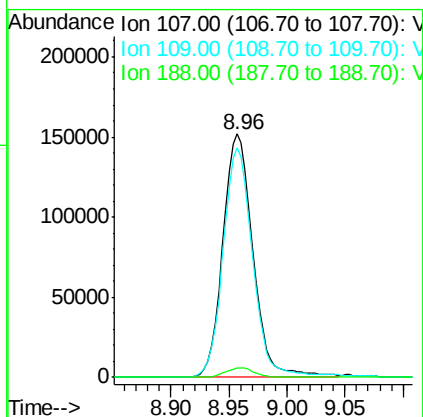
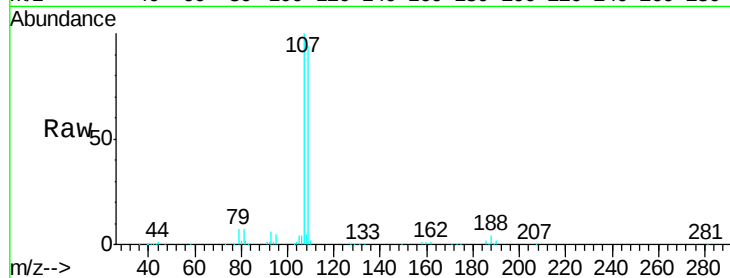




#50
1,2-Dibromoethane
Concen: 50.993 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

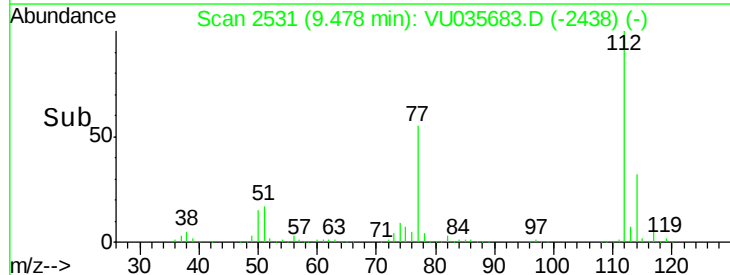
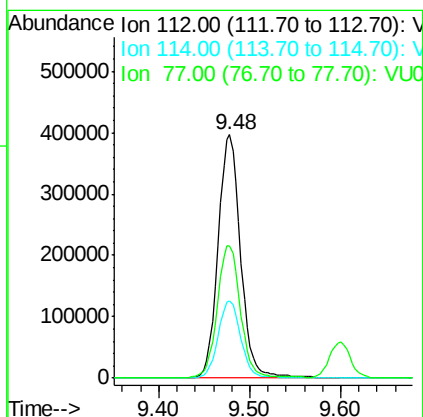
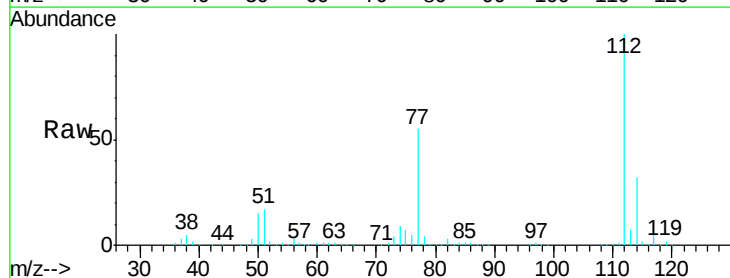
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

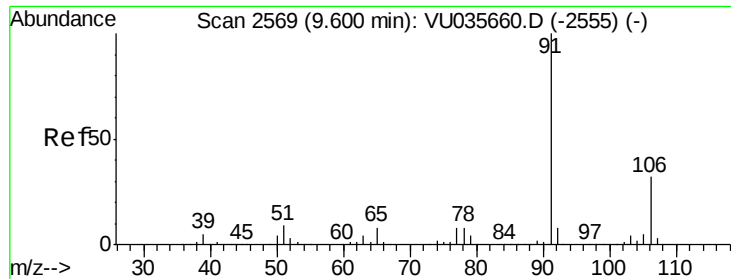
Tgt Ion:107 Resp: 272018
Ion Ratio Lower Upper
107 100
109 94.5 66.8 124.2
188 3.8 3.2 4.8



#51
Chlorobenzene
Concen: 50.038 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Tgt Ion:112 Resp: 681974
Ion Ratio Lower Upper
112 100
114 31.8 22.7 42.3
77 54.6 45.9 68.9

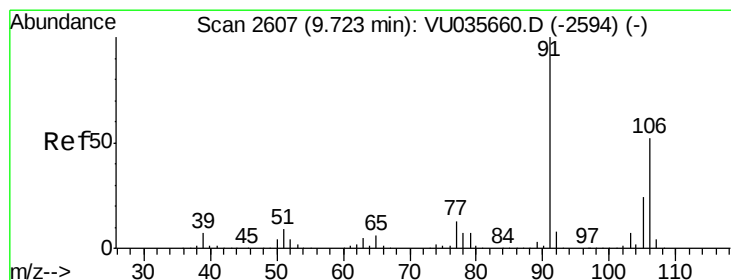
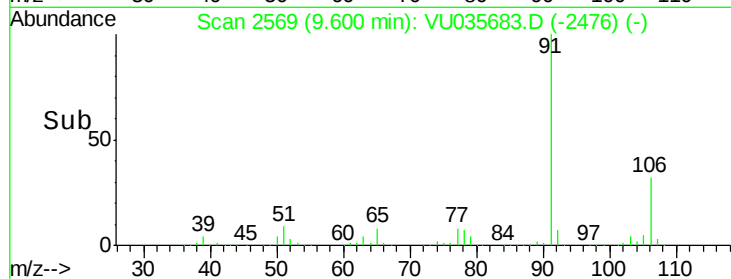
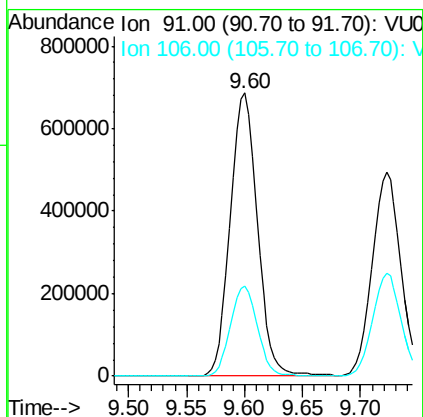
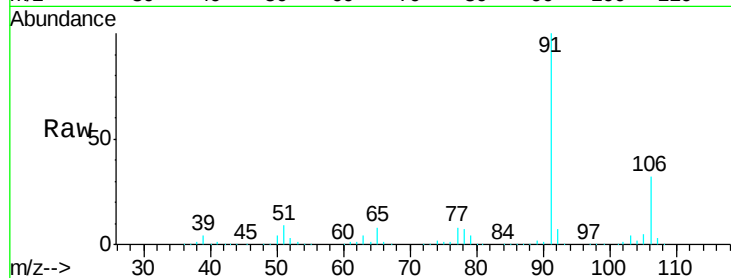




#52
Ethylbenzene
Concen: 51.041 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

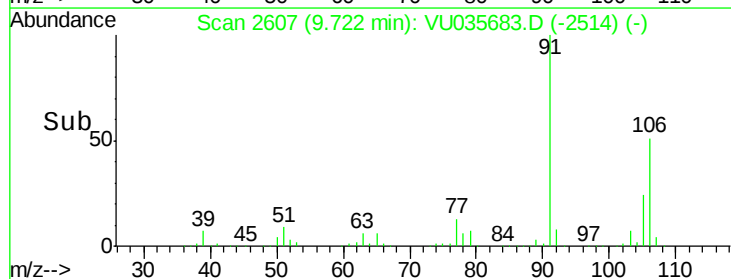
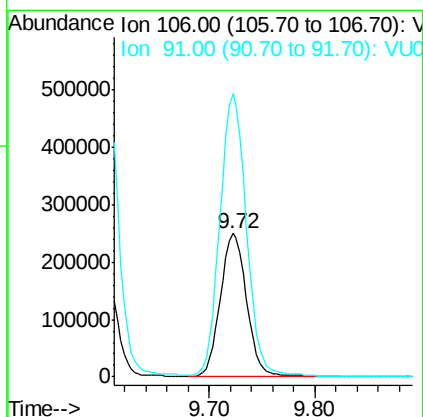
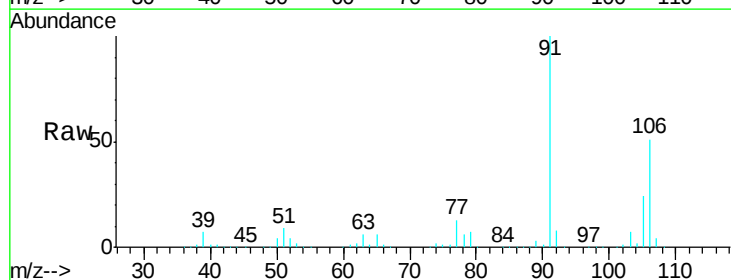
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

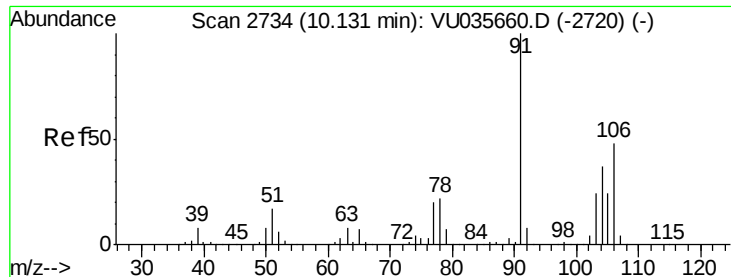
Tgt Ion: 91 Resp: 1114001
Ion Ratio Lower Upper
91 100
106 31.9 21.6 40.0



#53
m,p-Xylene
Concen: 53.076 ug/L
RT: 9.72 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VU035683.D
Acq: 11 Nov 2019 09:56

Tgt Ion: 106 Resp: 434678
Ion Ratio Lower Upper
106 100
91 197.2 142.7 264.9





#54

o-xylene

Concen: 53.262 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

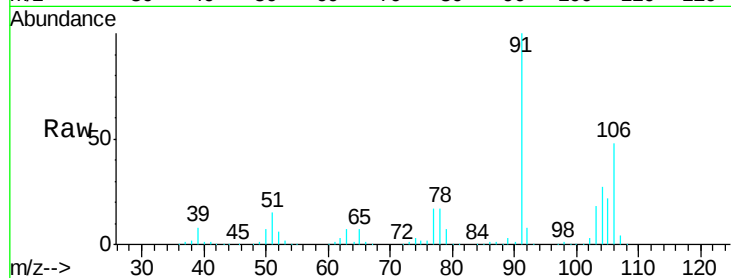
VSTD05041

Tgt Ion:106 Resp: 426338

Ion Ratio Lower Upper

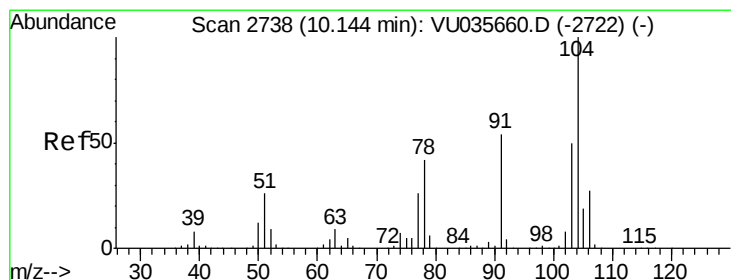
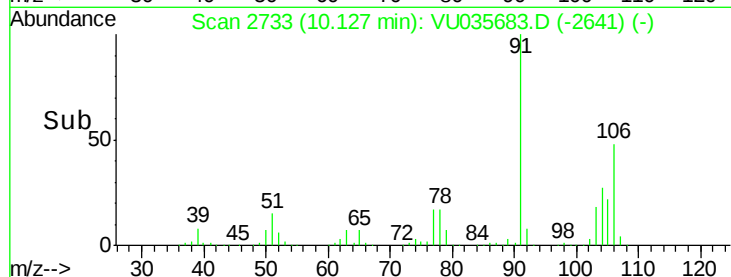
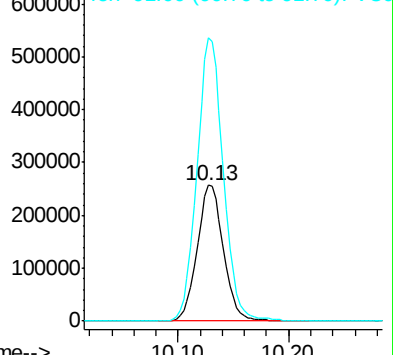
106 100

91 208.3 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.349 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035683.D

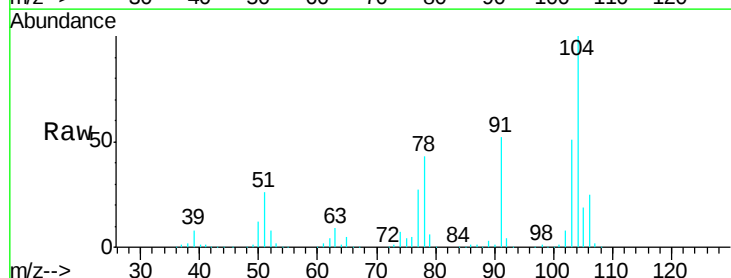
Acq: 11 Nov 2019 09:56

Tgt Ion:104 Resp: 708699

Ion Ratio Lower Upper

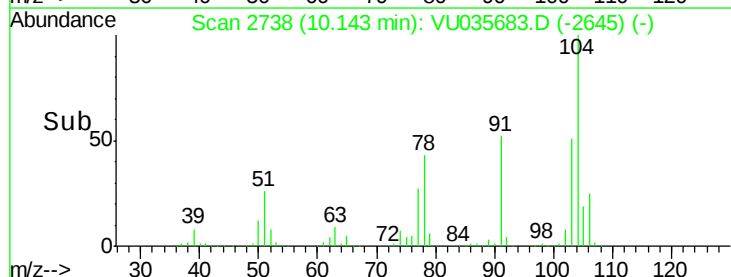
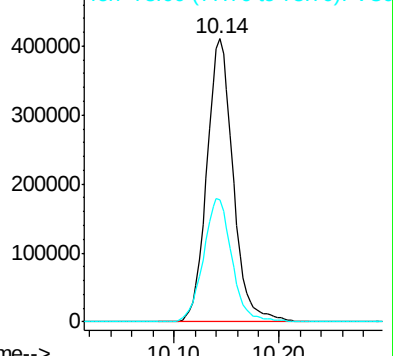
104 100

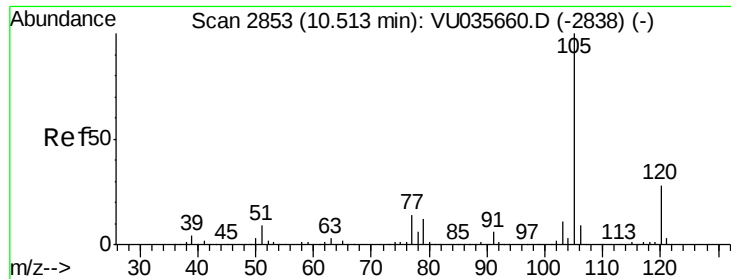
78 42.9 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.341 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

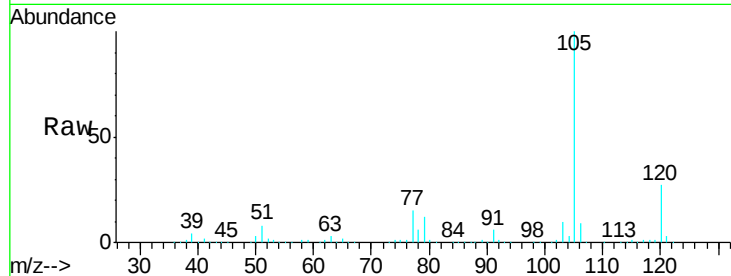
Tgt Ion: 105 Resp: 1072954

Ion Ratio Lower Upper

105 100

120 26.7 21.1 31.7

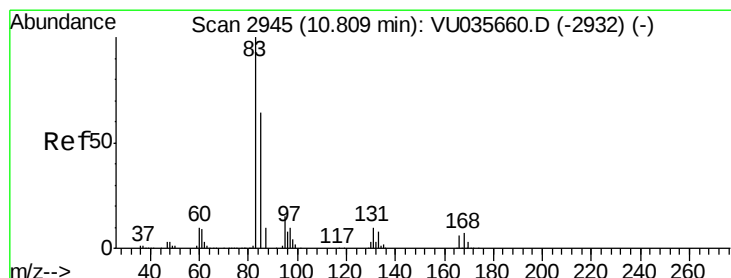
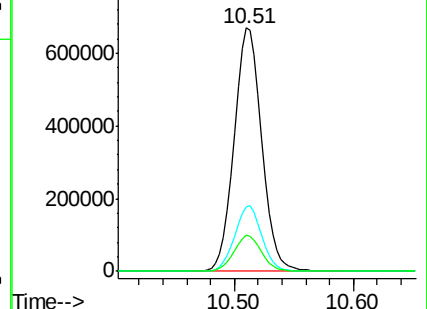
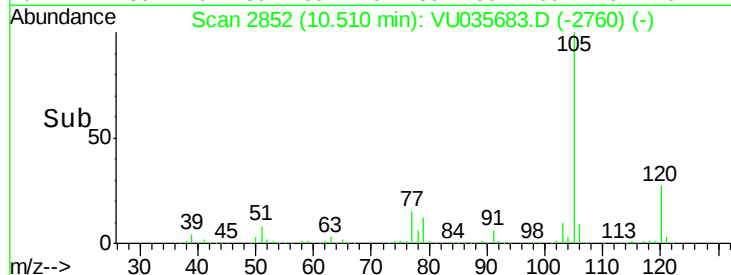
77 14.6 12.2 18.4



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: 48.853 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

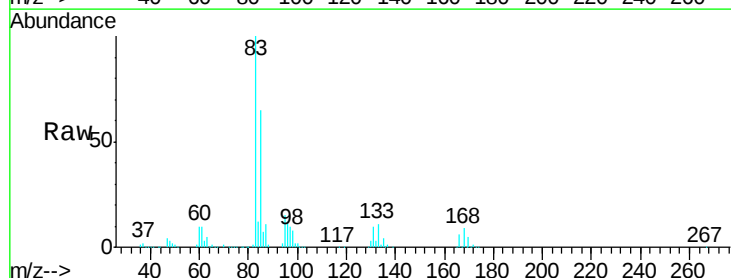
Tgt Ion: 83 Resp: 420723

Ion Ratio Lower Upper

83 100

85 64.7 44.6 82.8

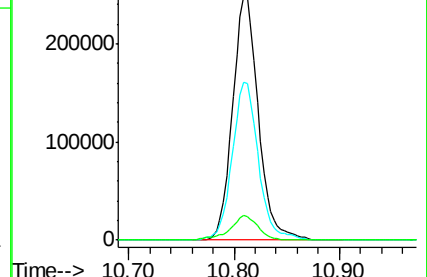
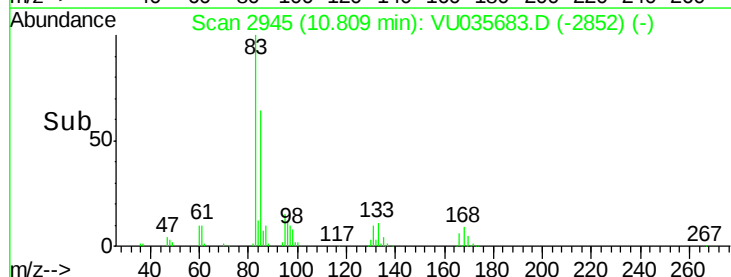
131 10.0 8.2 12.4

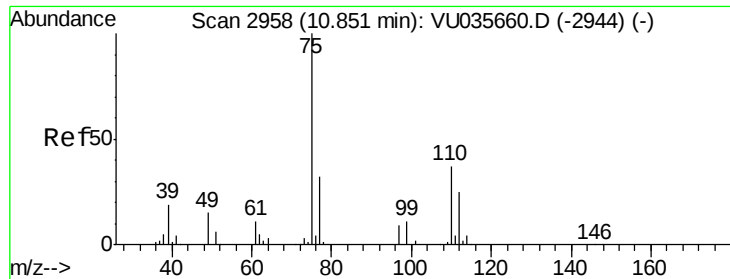


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.671 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

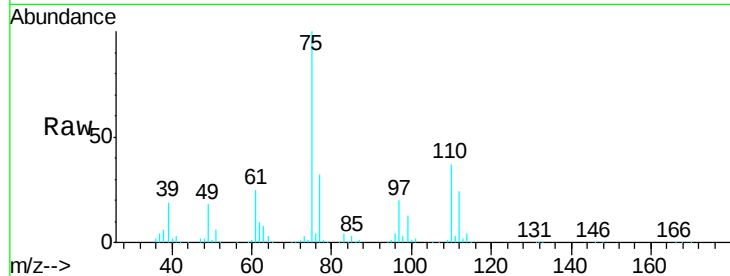
VSTD05041

Tgt Ion: 75 Resp: 331041

Ion Ratio Lower Upper

75 100

77 32.4 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035660.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU035660.D (-2944) (-)

10.85

200000

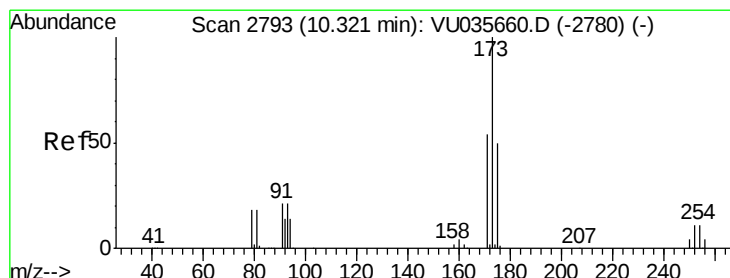
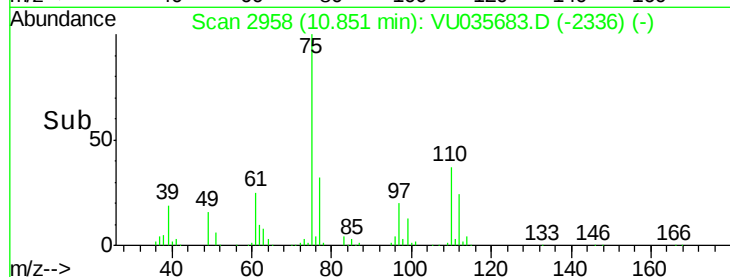
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 46.634 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

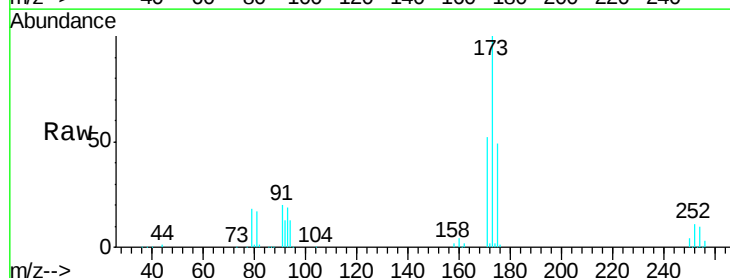
Tgt Ion: 173 Resp: 226857

Ion Ratio Lower Upper

173 100

175 48.4 39.4 59.0

254 10.5 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035660.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035660.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035660.D (-2780) (-)

10.32

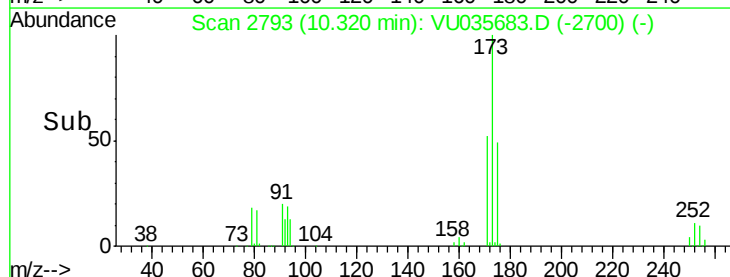
150000

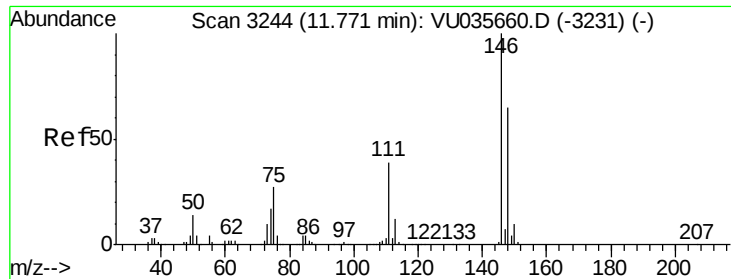
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.667 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

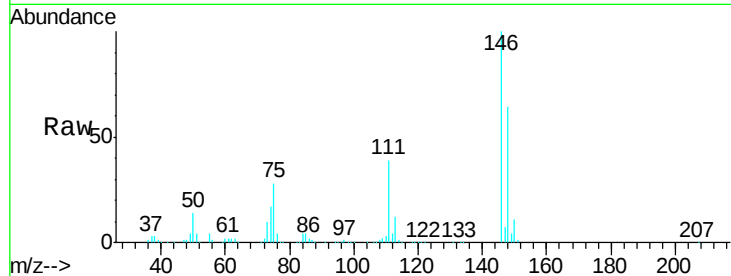
Tgt Ion:146 Resp: 489552

Ion Ratio Lower Upper

146 100

111 38.9 27.8 51.6

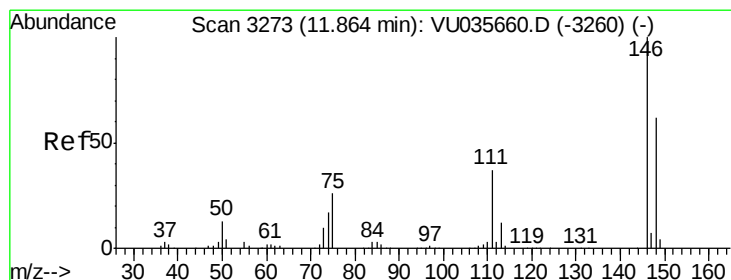
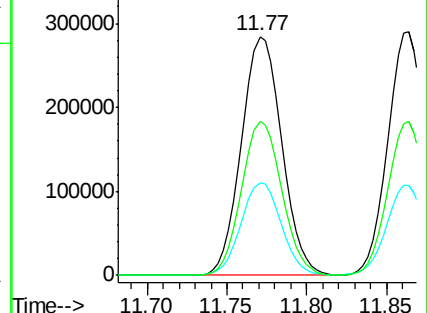
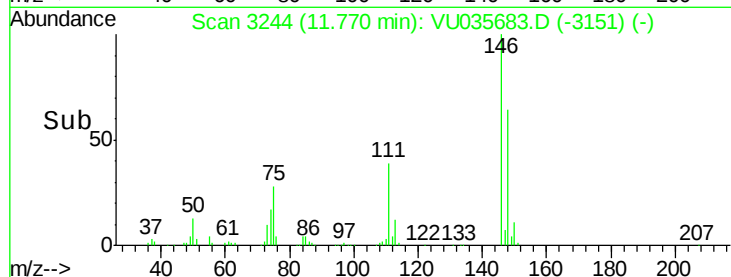
148 64.2 44.5 82.7



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: 47.856 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

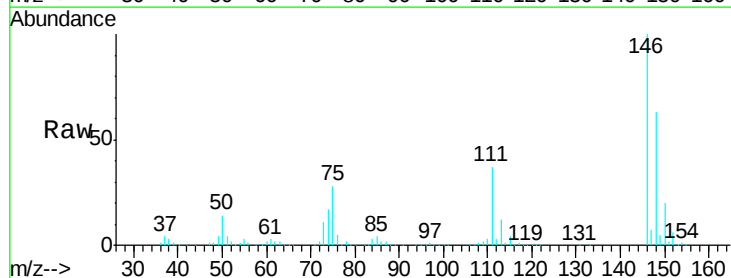
Tgt Ion:146 Resp: 489037

Ion Ratio Lower Upper

146 100

111 37.0 26.5 49.1

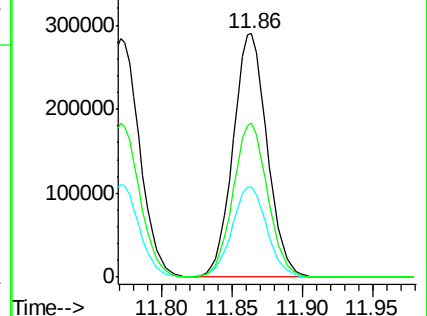
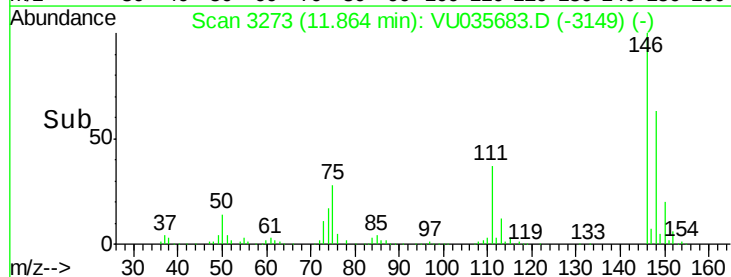
148 63.1 44.4 82.5

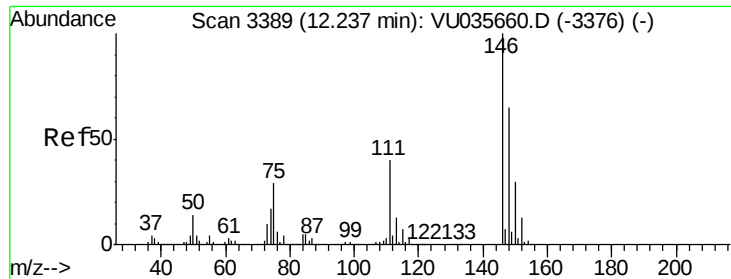


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

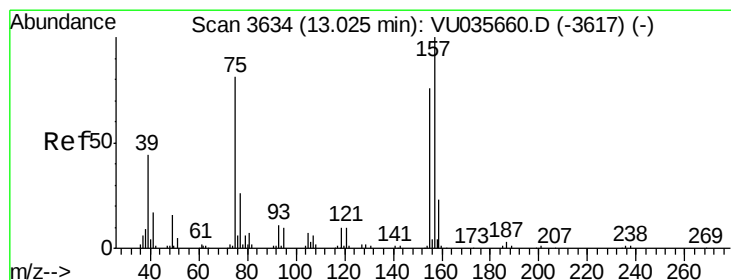
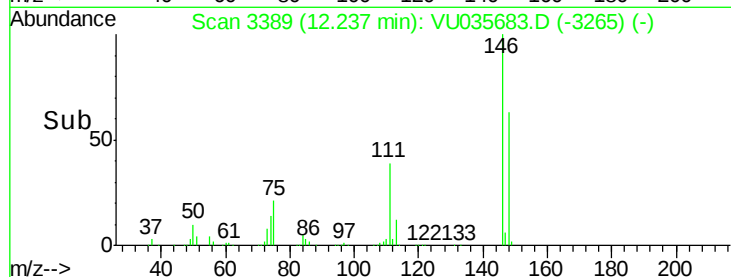
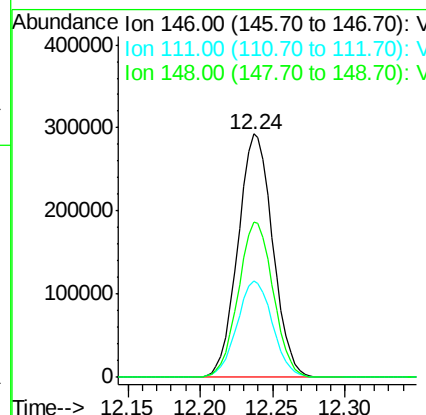
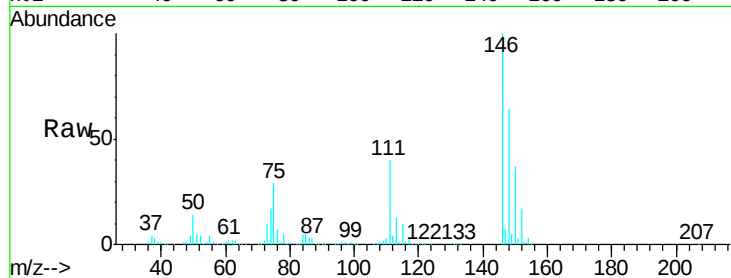




#65
 1,2-Dichlorobenzene
 Concen: 47.606 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

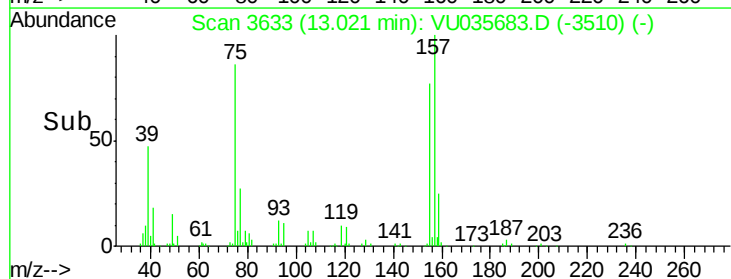
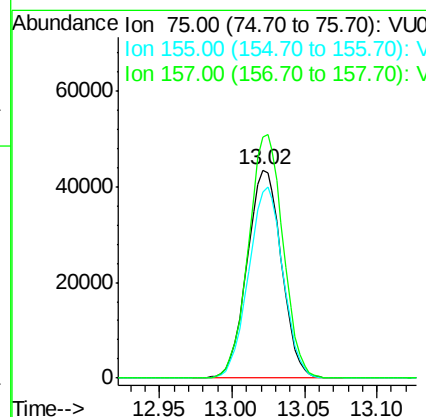
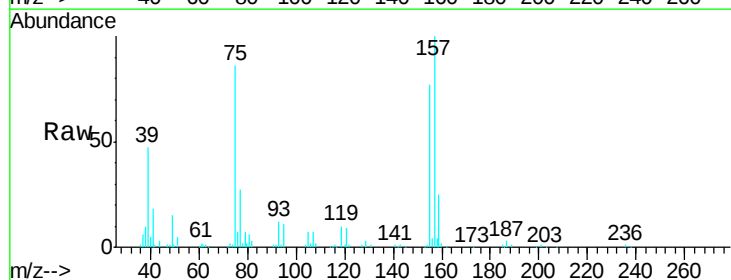
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

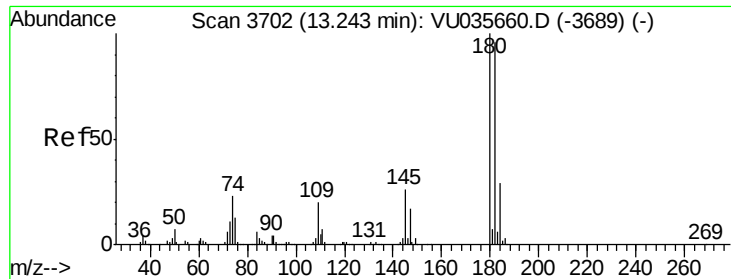
Tgt Ion: 146 Resp: 487527
 Ion Ratio Lower Upper
 146 100
 111 39.6 32.4 48.6
 148 63.6 51.8 77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.344 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

Tgt Ion: 75 Resp: 71998
 Ion Ratio Lower Upper
 75 100
 155 89.5 72.2 108.4
 157 115.6 92.1 138.1

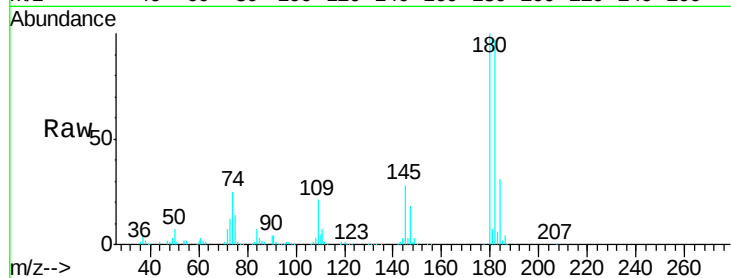




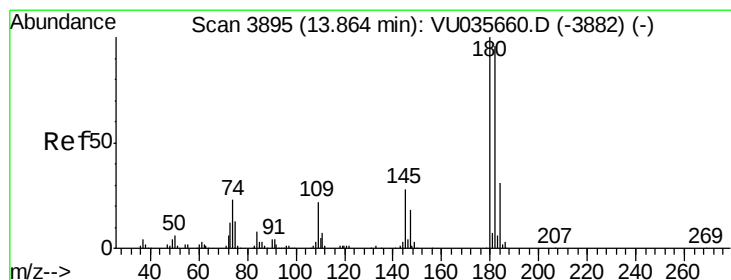
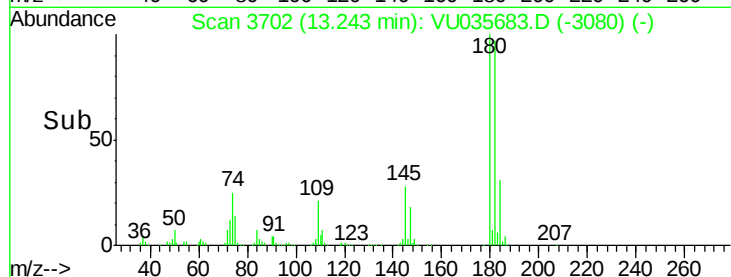
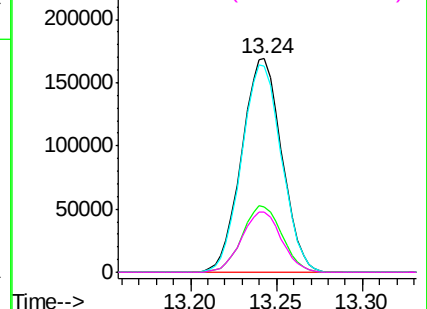
#67
 1,3,5-Trichlorobenzene
 Concen: 47.147 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:	180	Resp:	273995
Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.0	115.4
184	30.6	24.6	36.8
145	28.1	21.7	32.5

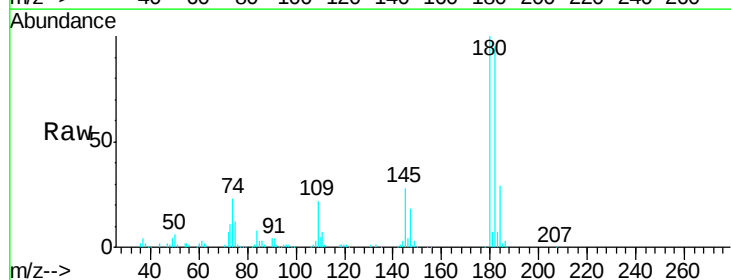


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

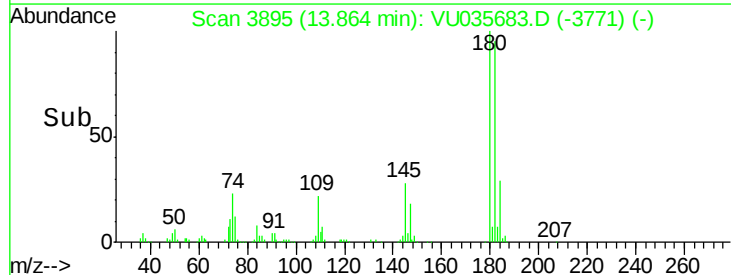
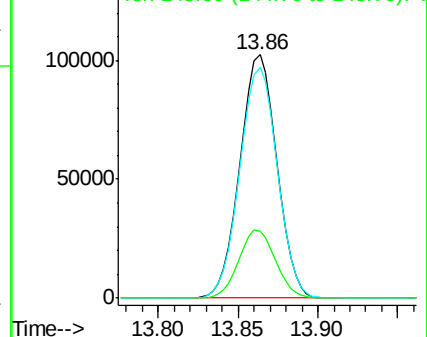


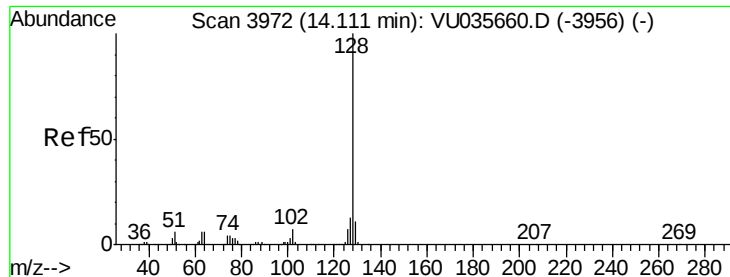
#68
 1,2,4-trichlorobenzene
 Concen: 41.202 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035683.D
 Acq: 11 Nov 2019 09:56

Tgt Ion:	180	Resp:	160396
Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.6	115.0
145	27.7	21.9	32.9



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





#69

Naphthalene

Concen: 39.020 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

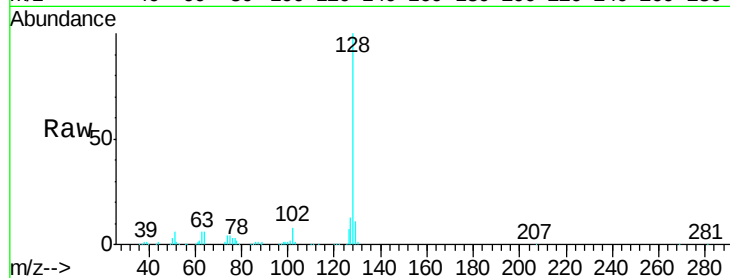
Tgt Ion:128 Resp: 389618

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

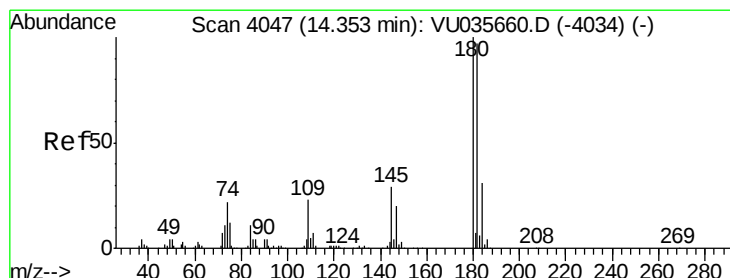
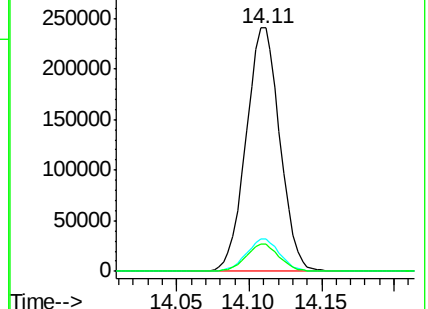
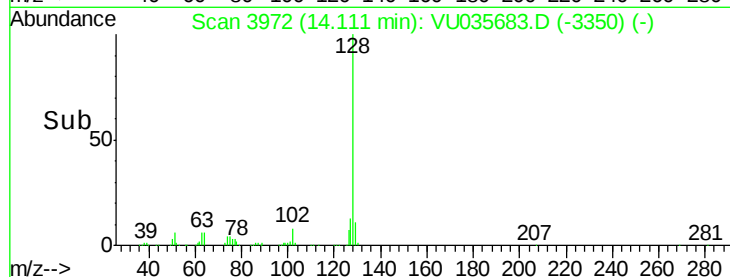
129 10.9 8.5 12.7



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: 40.521 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035683.D

Acq: 11 Nov 2019 09:56

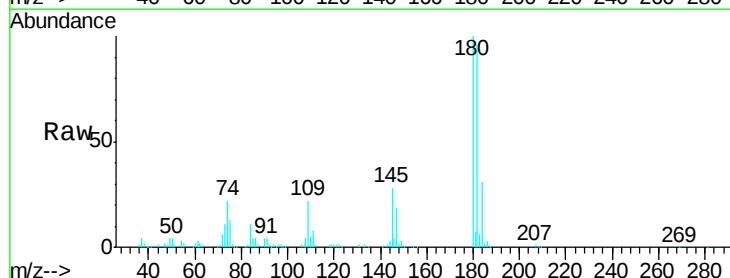
Tgt Ion:180 Resp: 169961

Ion Ratio Lower Upper

180 100

182 96.1 77.6 116.4

145 29.0 23.4 35.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

