

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U110119\
 Data File : VU035582.D
 Acq On : 31 Oct 2019 08:46
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

Quant Time: Oct 31 17:30:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 31 11:40:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	699423	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	683820	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	306914	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	266138	47.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.22%
7) Chloroethane-d5	1.93	69	218198	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.74%
11) 1,1-Dichloroethene-d2	2.60	63	421722	48.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.00%
21) 2-Butanone-d5	4.69	46	327336	99.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.20%
24) Chloroform-d	5.11	84	431297	49.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.88%
26) 1,2-Dichloroethane-d4	5.75	65	263588	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
32) Benzene-d6	5.77	84	892419	50.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.14%
36) 1,2-Dichloropropane-d6	6.73	67	290180	50.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.40%
41) Toluene-d8	7.93	98	854323	50.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.62%
43) trans-1,3-Dichloropropene-	8.21	79	135662	50.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.90%
47) 2-Hexanone-d5	8.67	63	223572	100.92	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.92%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	401154	48.80	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	287747	46.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.96%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	276715	50.731	ug/L 99
3) Chloromethane	1.54	50	301591	50.733	ug/L 99
5) Vinyl chloride	1.62	62	313762	49.054	ug/L 100
6) Bromomethane	1.87	94	175627	54.209	ug/L 96
8) Chloroethane	1.95	64	185414	49.840	ug/L 100
9) Trichlorofluoromethane	2.16	101	387448	51.136	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	228494	52.530	ug/L 99
12) 1,1-Dichloroethene	2.61	96	211512	49.505	ug/L 93
13) Acetone	2.66	43	393947	135.694	ug/L 100
14) Carbon disulfide	2.82	76	635749	48.298	ug/L 100
15) Methyl Acetate	2.99	43	266756	50.729	ug/L 100
16) Methylene chloride	3.08	84	257176	49.332	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	222277	49.403	ug/L 98
18) Methyl tert-butyl Ether	3.42	73	688050	50.581	ug/L 99
19) 1,1-Dichloroethane	3.92	63	435907	50.224	ug/L 99
20) cis-1,2-Dichloroethene	4.72	96	254232	50.097	ug/L 96
22) 2-Butanone	4.77	43	449828	117.375	ug/L 98

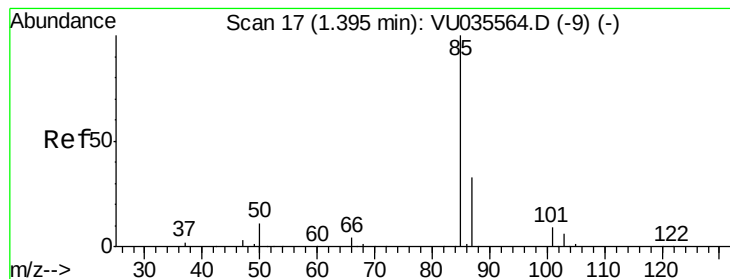
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U110119\
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 Acq On : 31 Oct 2019 08:46
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 Quant Title : VOC Analysis
 QLast Update : Thu Oct 31 11:40:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	135832	50.652	ug/L	99
25) Chloroform	5.14	83	441583	50.097	ug/L	100
27) 1,2-Dichloroethane	5.84	62	324763	50.430	ug/L	100
29) Cyclohexane	5.43	56	359308	51.515	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	366876	51.045	ug/L	99
31) Carbon tetrachloride	5.57	117	326217	51.045	ug/L	99
33) Benzene	5.82	78	989622	51.494	ug/L	100
34) Trichloroethene	6.58	95	244429	50.028	ug/L	98
35) Methylcyclohexane	6.80	83	359837	50.711	ug/L	99
37) 1,2-Dichloropropane	6.83	63	265579	51.604	ug/L	100
38) Bromodichloromethane	7.14	83	333257	50.944	ug/L	100
39) cis-1,3-Dichloropropene	7.65	75	384712	50.291	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	684675	99.442	ug/L	99
42) Toluene	8.01	91	1066887	52.967	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	361294	51.525	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	254126	51.516	ug/L	99
46) Tetrachloroethene	8.58	164	211104	51.674	ug/L	98
48) 2-Hexanone	8.73	43	573971	102.513	ug/L	94
49) Dibromochloromethane	8.84	129	285422	51.308	ug/L	98
50) 1,2-Dibromoethane	8.96	107	266394	50.616	ug/L	98
51) Chlorobenzene	9.48	112	683327	50.817	ug/L	99
52) Ethylbenzene	9.60	91	1122390	52.123	ug/L	99
53) m,p-Xylene	9.72	106	435733	53.926	ug/L	96
54) o-xylene	10.13	106	421849	53.416	ug/L	98
55) Styrene	10.14	104	705781	53.850	ug/L	100
56) Isopropylbenzene	10.51	105	1060314	53.428	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	426884	50.240	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	336322	50.119	ug/L	100
61) Bromoform	10.32	173	224103	47.862	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	484787	50.070	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	477196	48.516	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	482008	48.900	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	73657	48.196	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	265482	47.462	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	148834	39.721	ug/L	98
69) Naphthalene	14.11	128	341225	35.504	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	158379	39.230	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.731 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

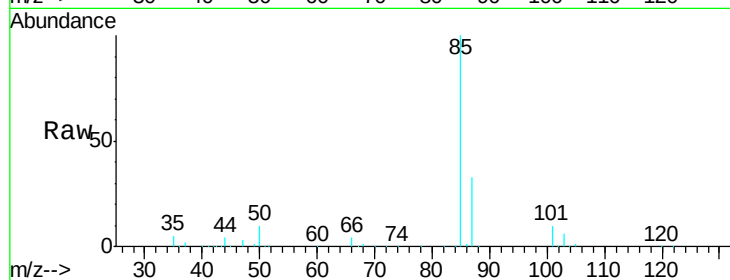
VSTD05031

Tgt Ion: 85 Resp: 276715

Ion Ratio Lower Upper

85 100

87 32.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

300000

250000

200000

150000

100000

50000

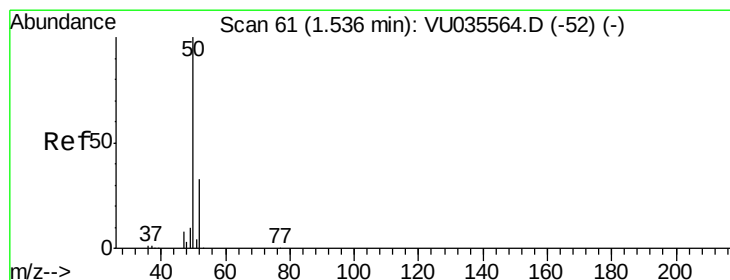
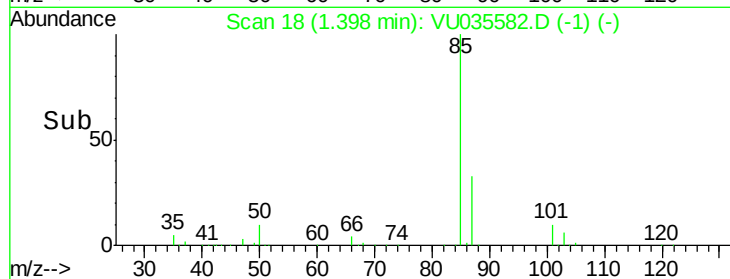
0

1.35

1.40

1.45

Time-->



#3

Chloromethane

Concen: 50.733 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035582.D

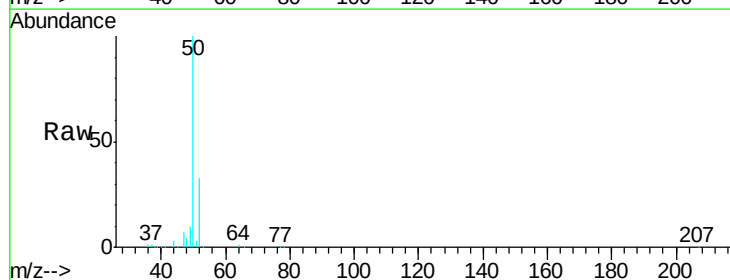
Acq: 31 Oct 2019 08:46

Tgt Ion: 50 Resp: 301591

Ion Ratio Lower Upper

50 100

52 33.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

300000

250000

200000

150000

100000

50000

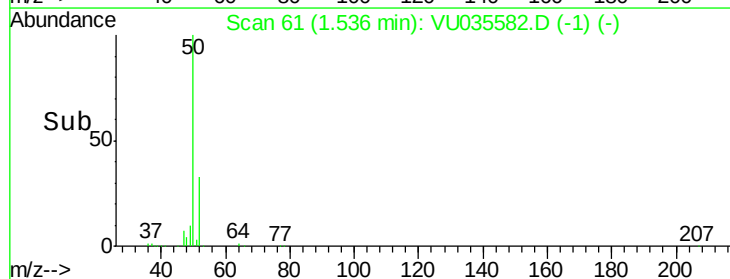
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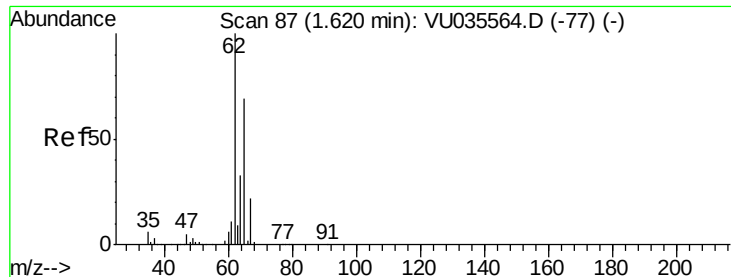
1.50

1.54

1.60

Time-->





#5

Vinyl chloride

Concen: 49.054 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

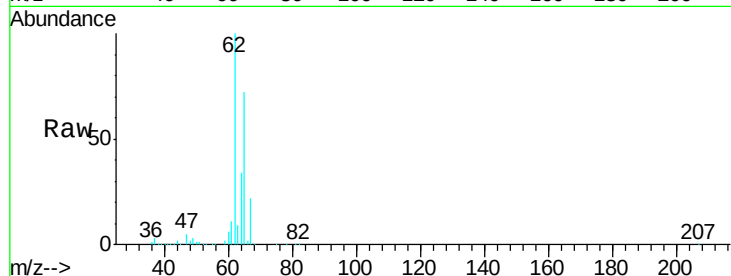
VSTD05031

Tgt Ion: 62 Resp: 313762

Ion Ratio Lower Upper

62 100

64 33.8 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035564.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU035564.D (-77) (-)

1.62

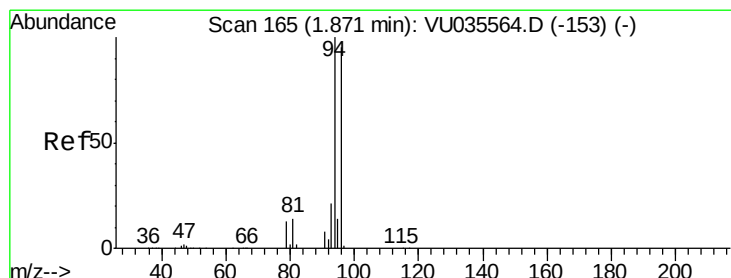
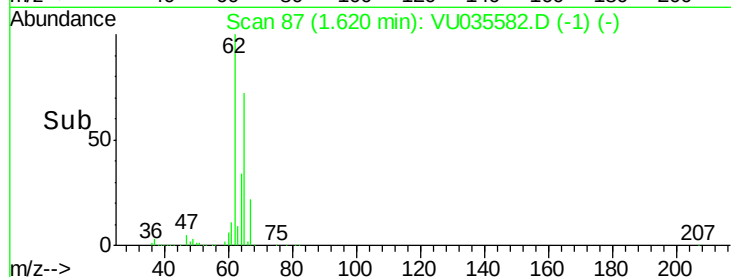
300000

200000

100000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 54.209 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU035582.D

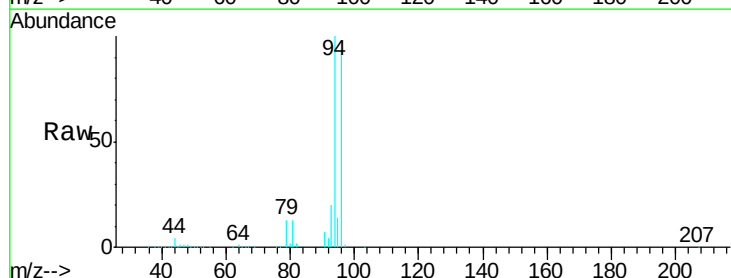
Acq: 31 Oct 2019 08:46

Tgt Ion: 94 Resp: 175627

Ion Ratio Lower Upper

94 100

96 92.7 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035564.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU035564.D (-153) (-)

1.87

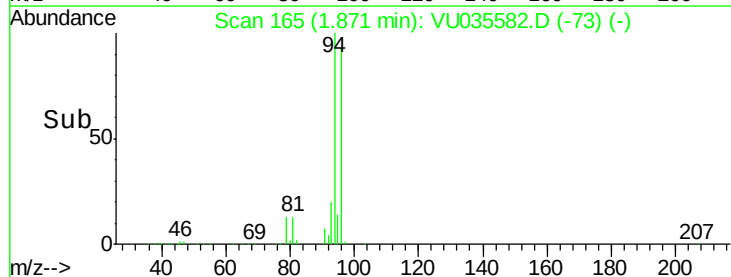
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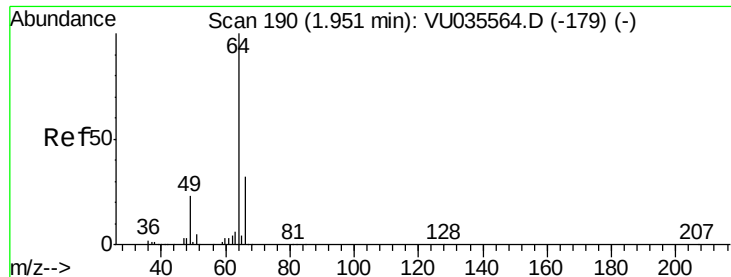
100000

50000

0

Time--> 1.80 1.85 1.90 1.95

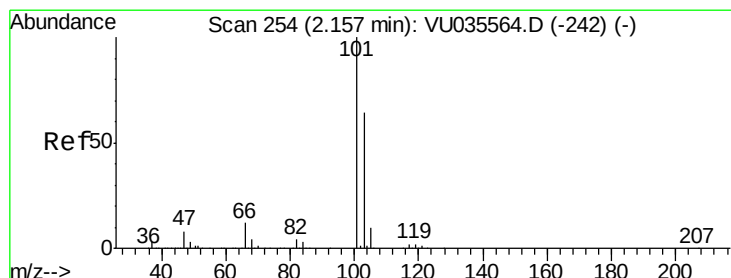
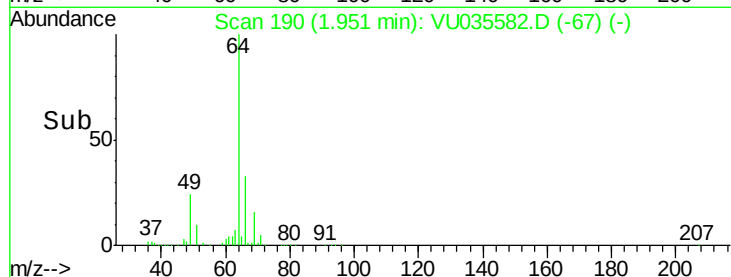
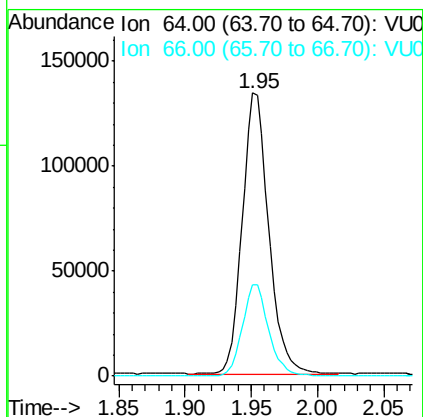
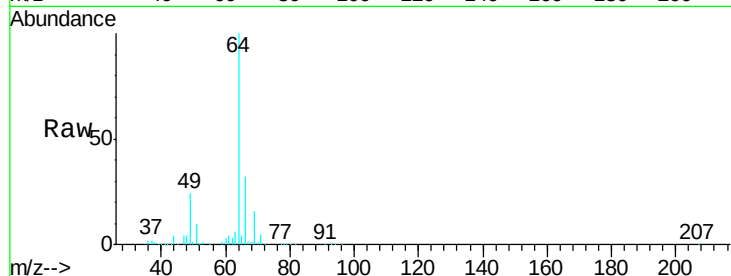




#8
Chloroethane
Concen: 49.840 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

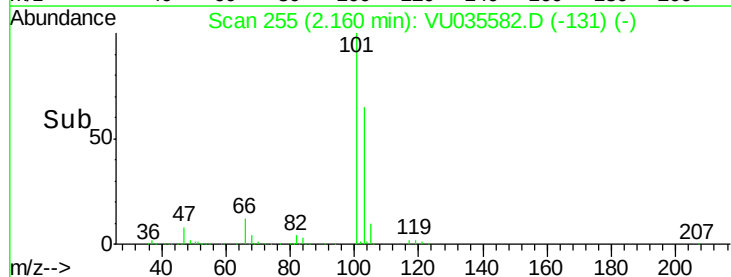
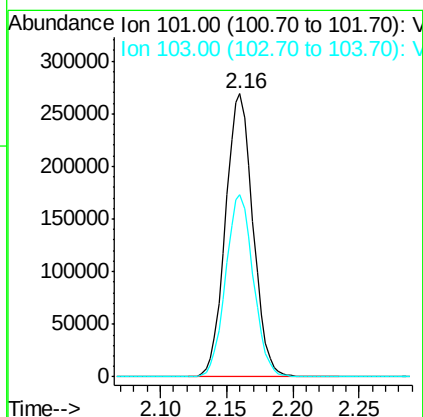
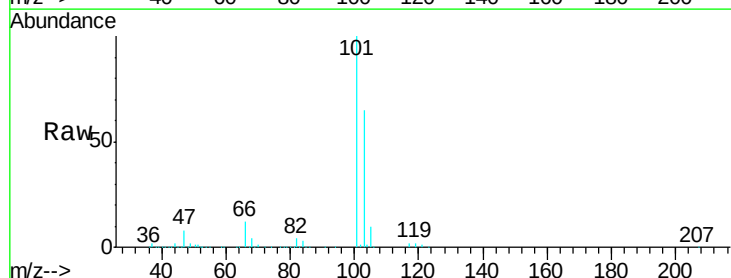
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

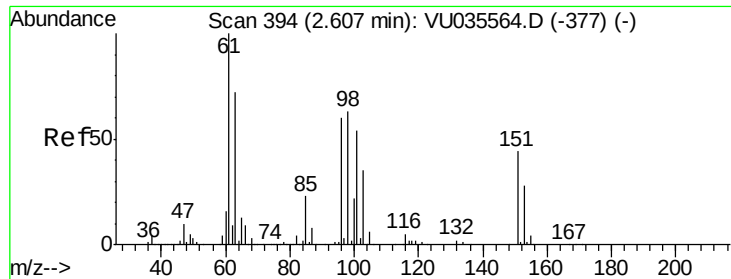
Tgt Ion: 64 Resp: 185414
Ion Ratio Lower Upper
64 100
66 32.3 22.8 42.4



#9
Trichlorofluoromethane
Concen: 51.136 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

Tgt Ion: 101 Resp: 387448
Ion Ratio Lower Upper
101 100
103 64.8 51.8 77.6





#10

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

Concen: 52.530 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampled :

VSTD05031

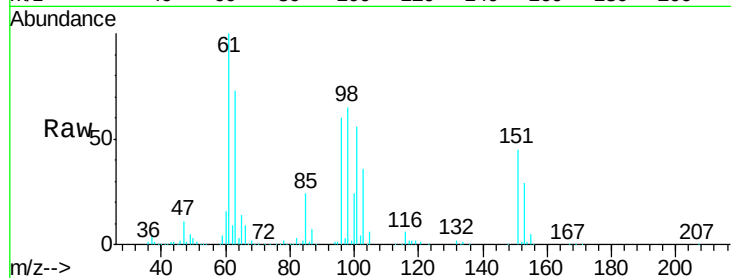
Tgt Ion:101 Resp: 228494

Ion Ratio Lower Upper

101 100

85 41.6 34.0 51.0

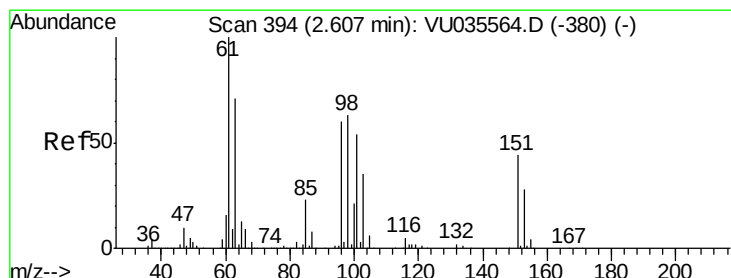
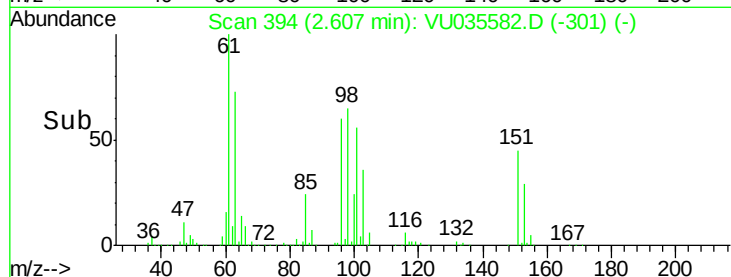
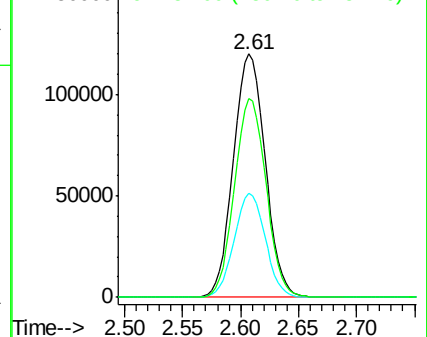
151 80.9 64.2 96.4



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: 49.505 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

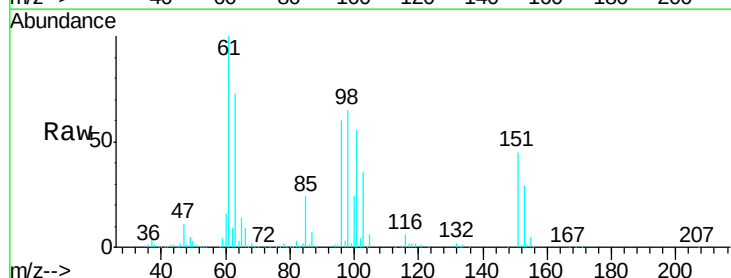
Tgt Ion: 96 Resp: 211512

Ion Ratio Lower Upper

96 100

61 166.8 113.1 210.1

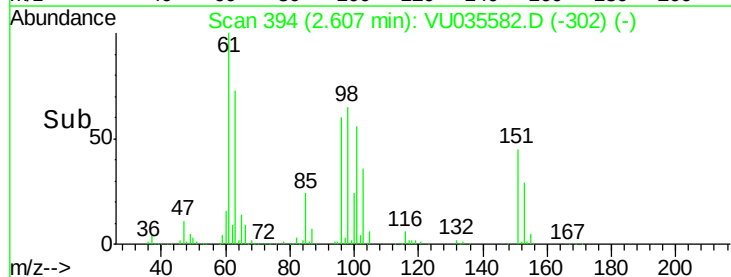
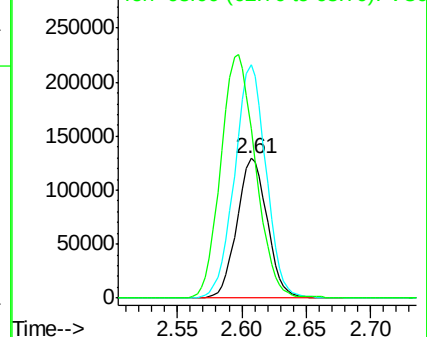
63 121.3 76.2 141.4

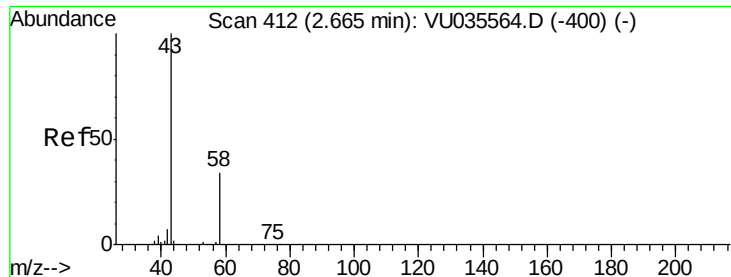


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 135.694 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

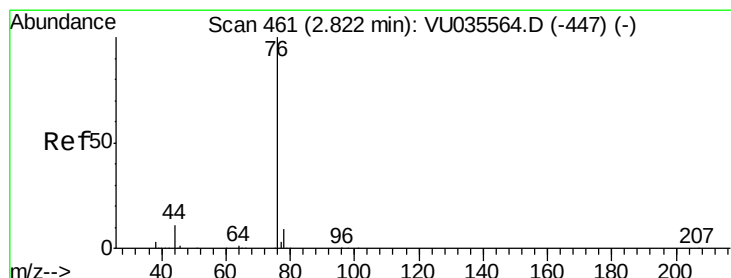
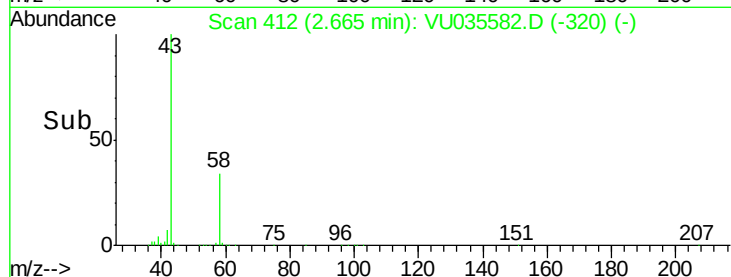
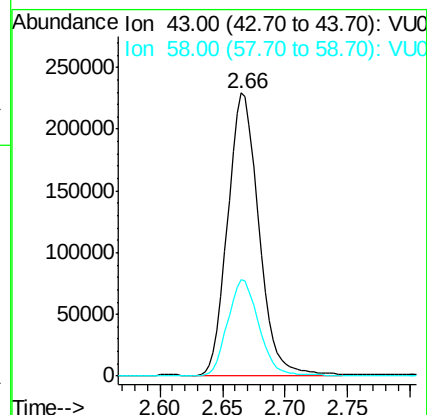
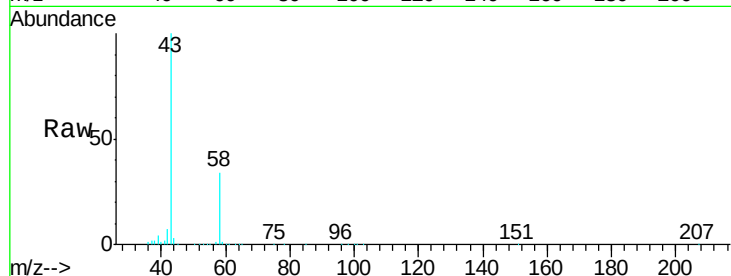
VSTD05031

Tgt Ion: 43 Resp: 393947

Ion Ratio Lower Upper

43 100

58 34.7 0.0 70.0



#14

Carbon disulfide

Concen: 48.298 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035582.D

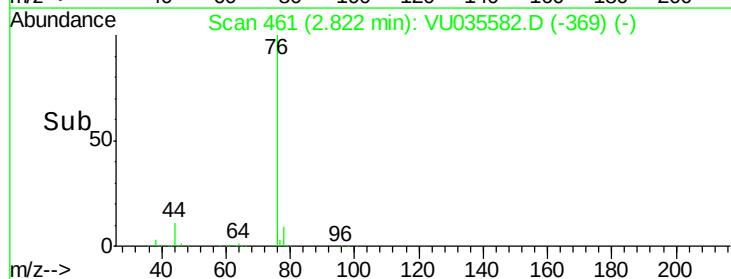
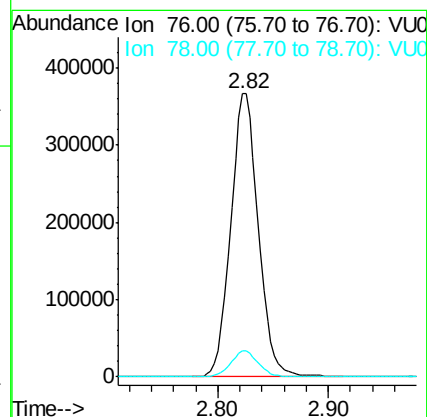
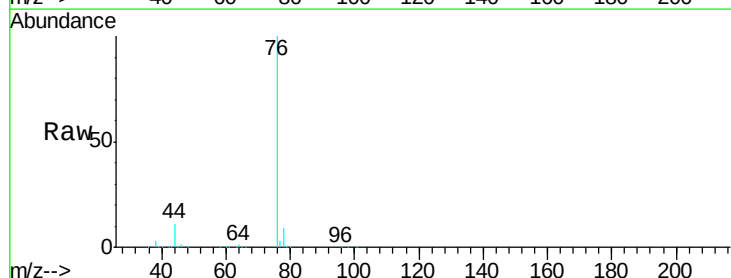
Acq: 31 Oct 2019 08:46

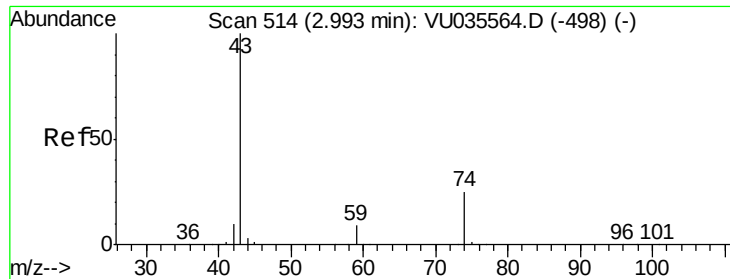
Tgt Ion: 76 Resp: 635749

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

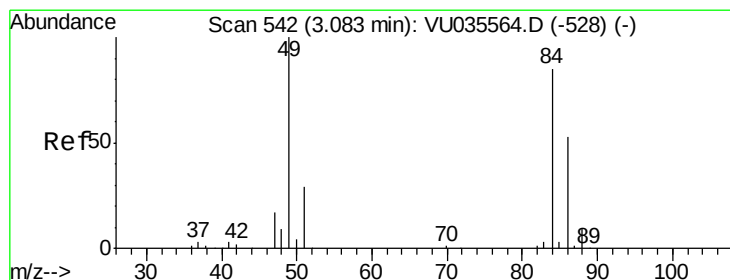
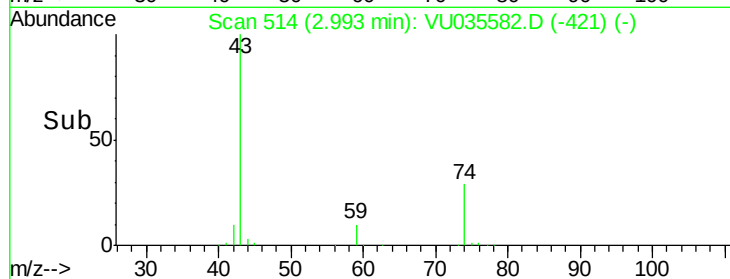
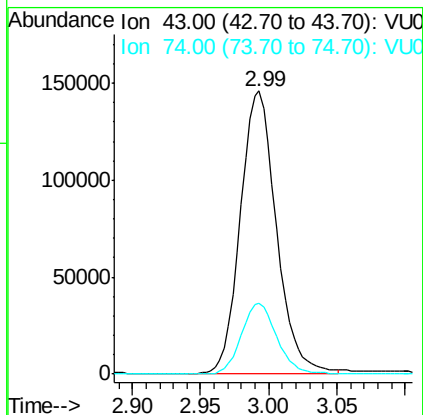
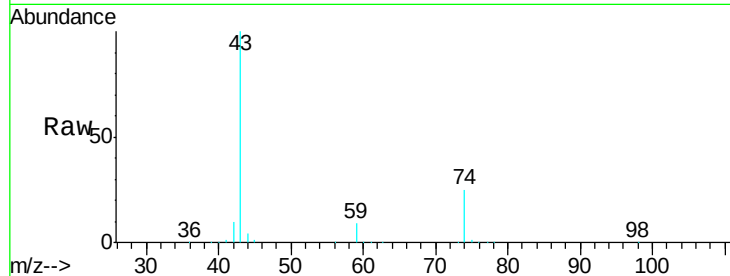




#15
Methyl Acetate
Concen: 50.729 ug/L
RT: 2.99 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

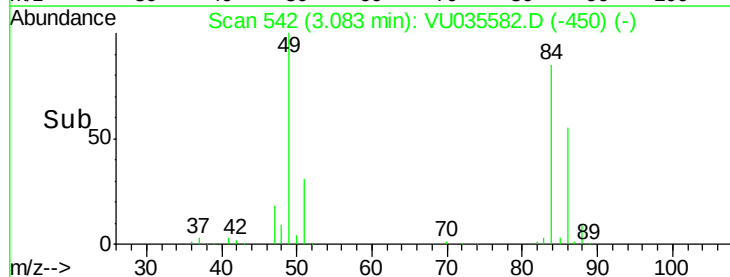
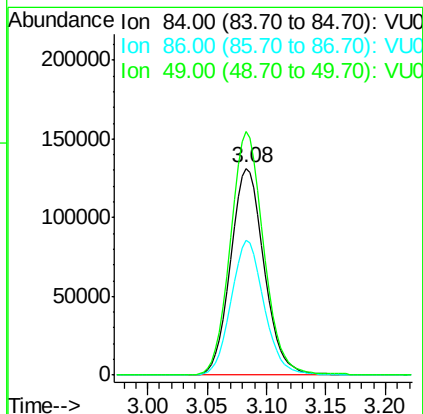
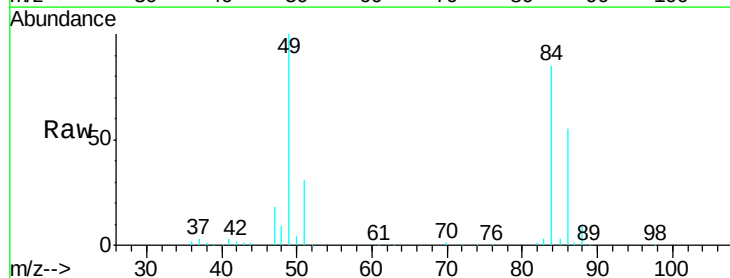
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

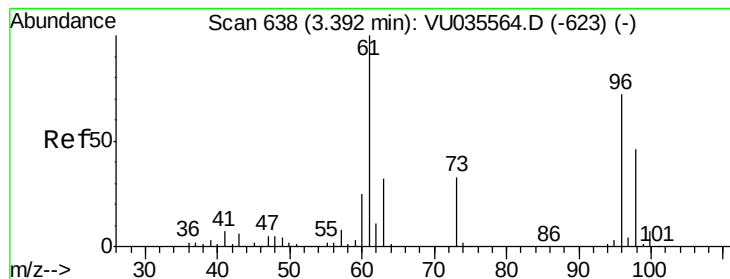
Tgt Ion: 43 Resp: 266756
Ion Ratio Lower Upper
43 100
74 24.6 19.8 29.6



#16
Methylene chloride
Concen: 49.332 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

Tgt Ion: 84 Resp: 257176
Ion Ratio Lower Upper
84 100
86 65.1 45.1 83.7
49 117.7 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 49.403 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

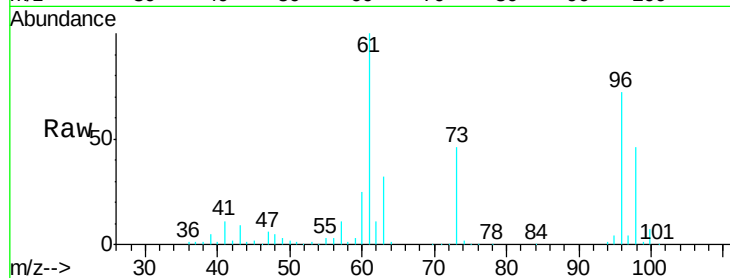
Tgt Ion: 96 Resp: 222277

Ion Ratio Lower Upper

96 100

61 139.1 95.3 176.9

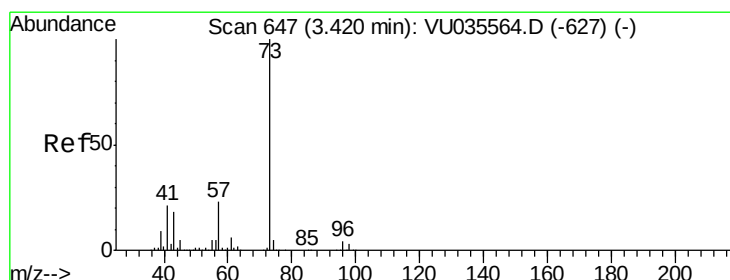
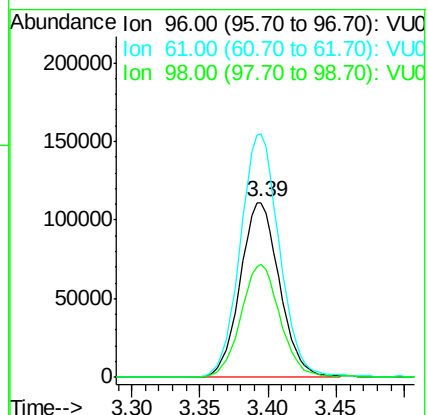
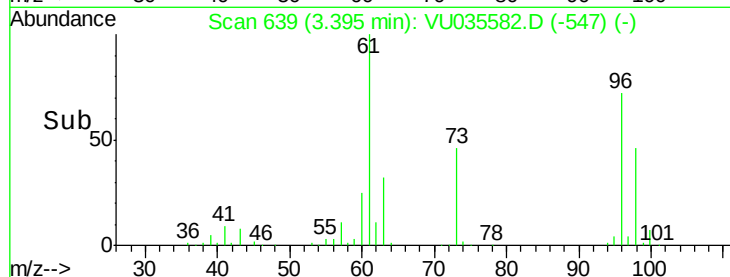
98 64.3 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035582.D (-547) (-)

Ion 61.00 (60.70 to 61.70): VU035582.D (-547) (-)

Ion 98.00 (97.70 to 98.70): VU035582.D (-547) (-)



#18

Methyl tert-butyl Ether

Concen: 50.581 ug/L

RT: 3.42 min Scan# 647

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

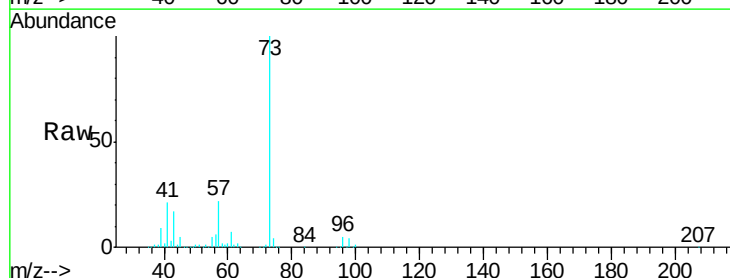
Tgt Ion: 73 Resp: 688050

Ion Ratio Lower Upper

73 100

43 17.7 14.2 21.2

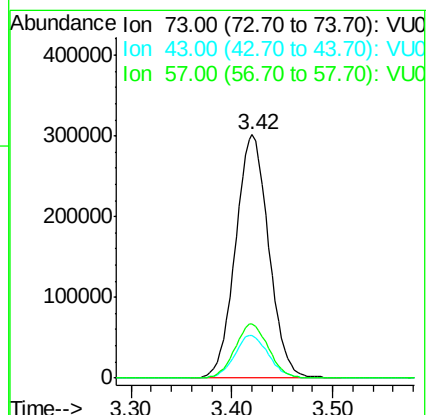
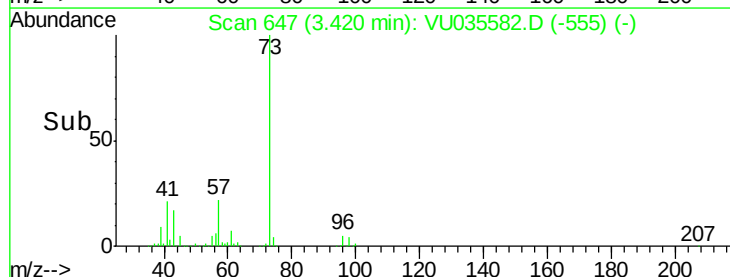
57 22.4 18.3 27.5

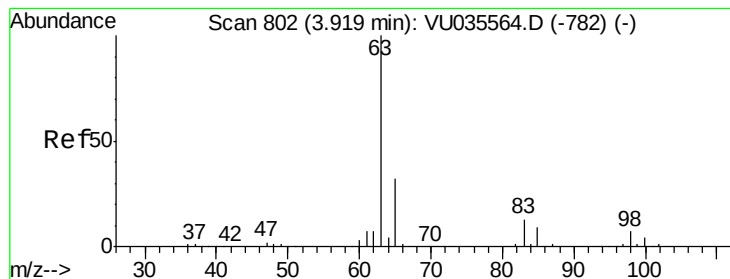


Abundance Ion 73.00 (72.70 to 73.70): VU035582.D (-555) (-)

Ion 43.00 (42.70 to 43.70): VU035582.D (-555) (-)

Ion 57.00 (56.70 to 57.70): VU035582.D (-555) (-)





#19

1,1-Dichloroethane

Concen: 50.224 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

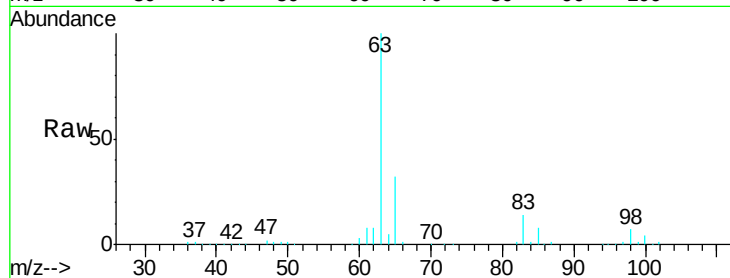
Tgt Ion: 63 Resp: 435907

Ion Ratio Lower Upper

63 100

65 31.6 22.1 41.1

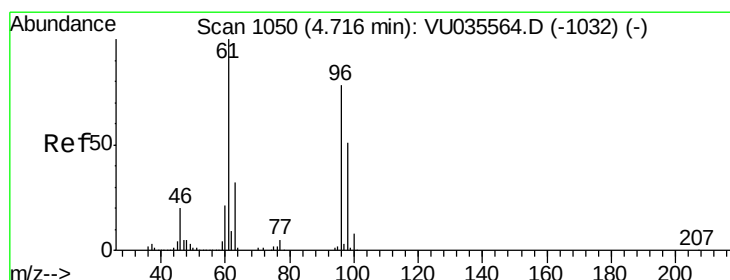
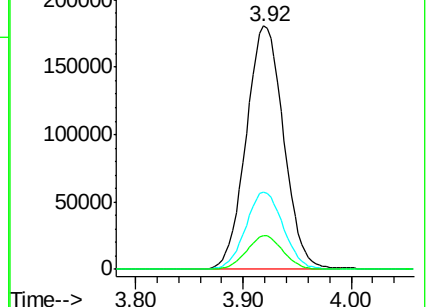
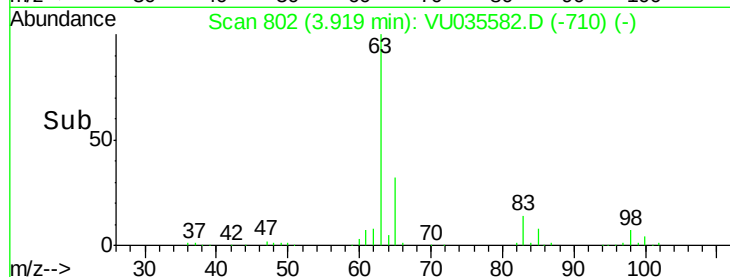
83 13.8 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035564.D (-782) (-)

Ion 65.00 (64.70 to 65.70): VU035564.D (-782) (-)

Ion 83.00 (82.70 to 83.70): VU035564.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 50.097 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

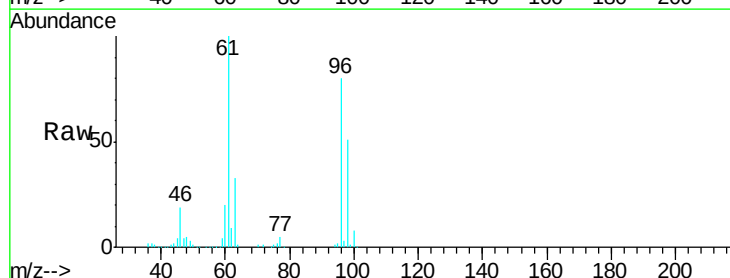
Tgt Ion: 96 Resp: 254232

Ion Ratio Lower Upper

96 100

61 124.4 90.6 168.3

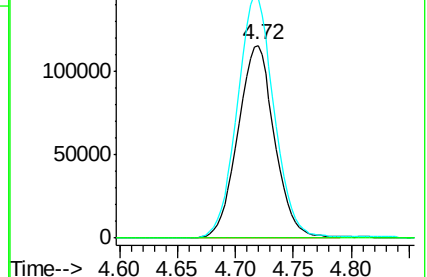
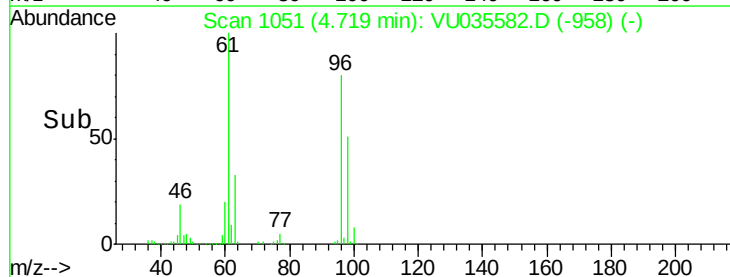
68 0.0 0.0 0.0

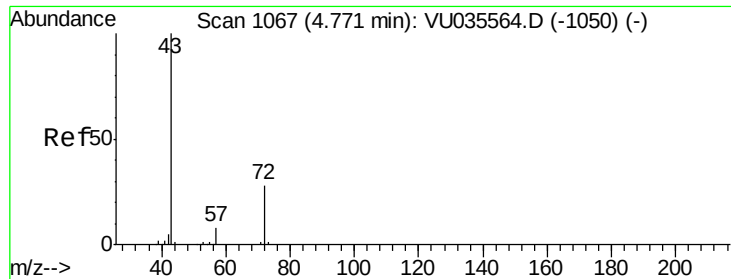


Abundance Ion 96.00 (95.70 to 96.70): VU035564.D (-1032) (-)

Ion 61.00 (60.70 to 61.70): VU035564.D (-1032) (-)

Ion 68.00 (67.70 to 68.70): VU035564.D (-1032) (-)





#22

2-Butanone

Concen: 117.375 ug/L

RT: 4.77 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

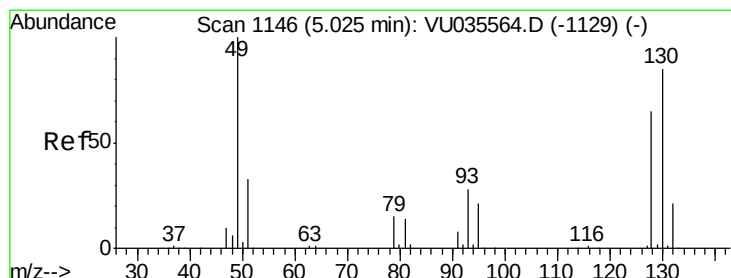
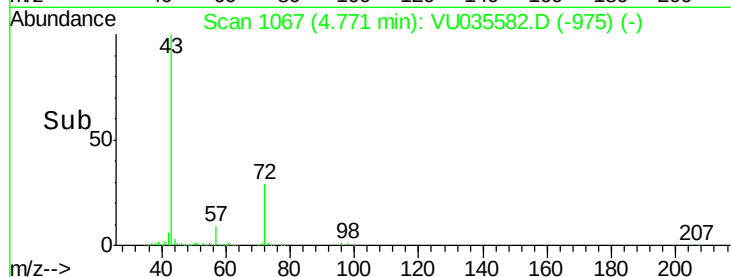
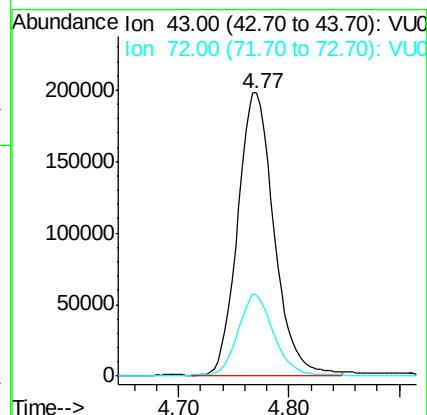
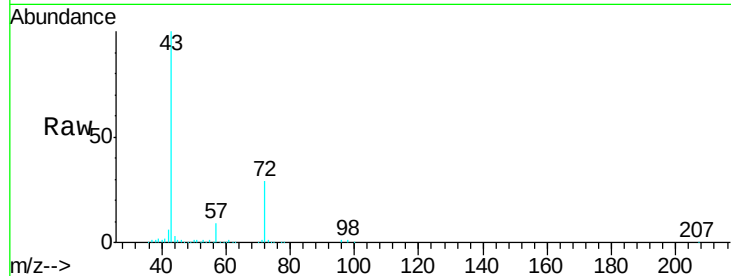
VSTD05031

Tgt Ion: 43 Resp: 449828

Ion Ratio Lower Upper

43 100

72 27.8 13.5 40.4



#23

Bromochloromethane

Concen: 50.652 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Tgt Ion: 128 Resp: 135832

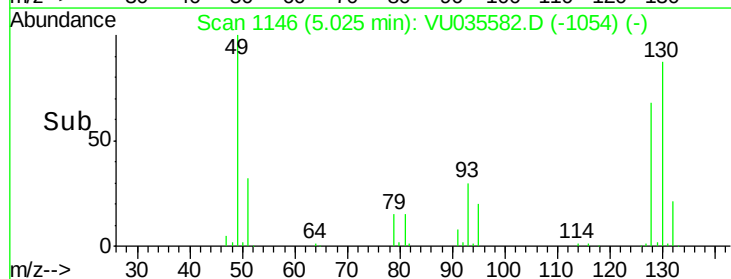
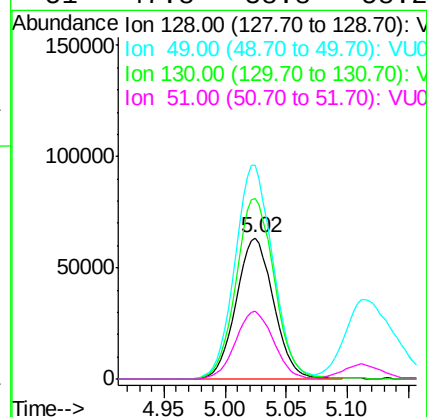
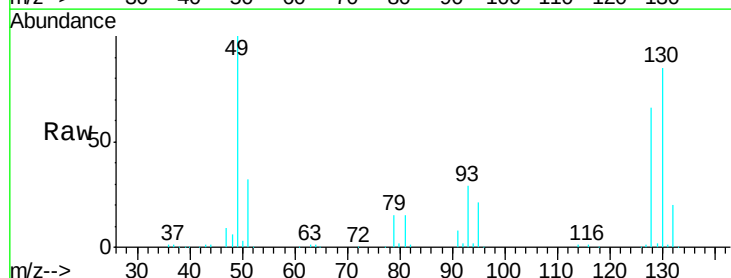
Ion Ratio Lower Upper

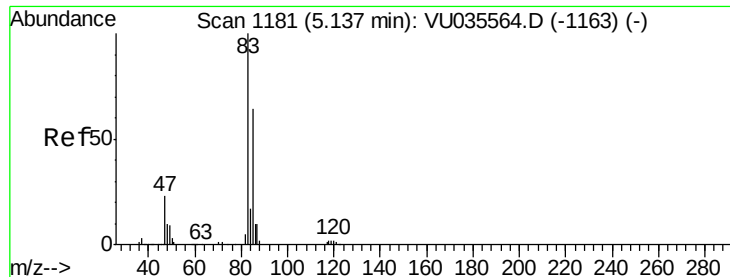
128 100

49 151.2 106.4 197.6

130 128.0 88.1 163.5

51 47.8 38.8 58.2

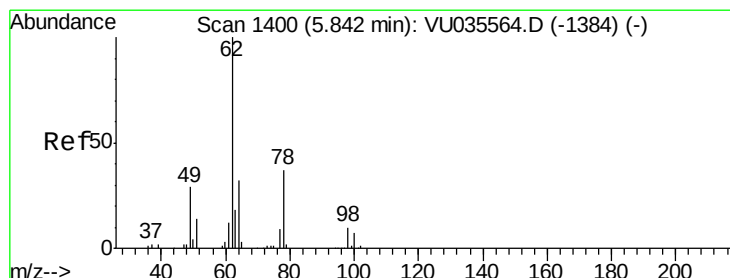
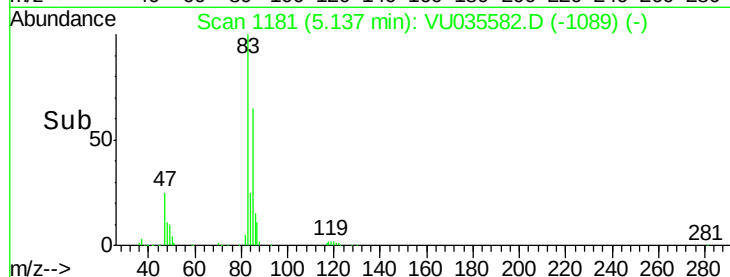
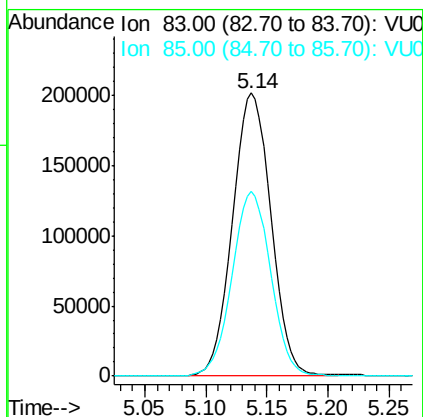
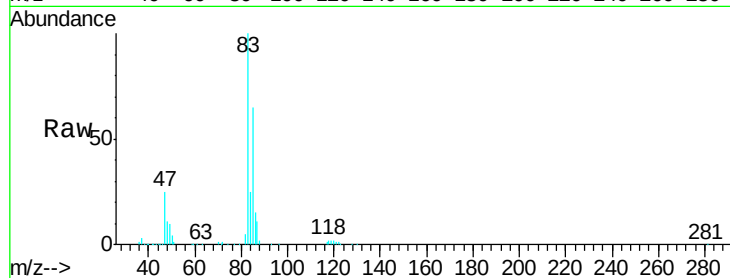




#25
Chloroform
Concen: 50.097 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

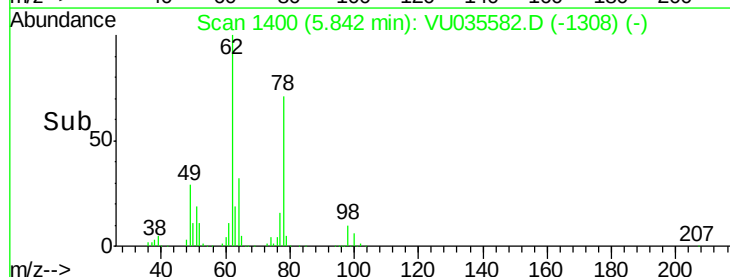
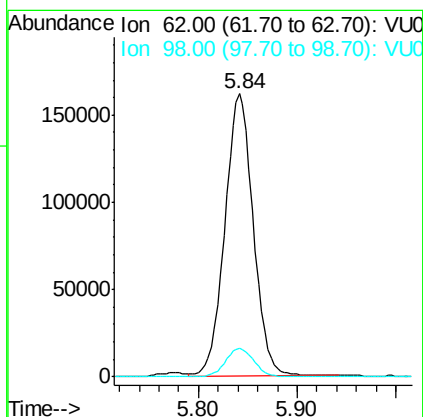
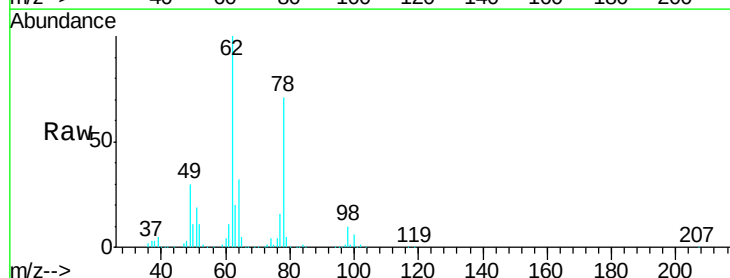
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

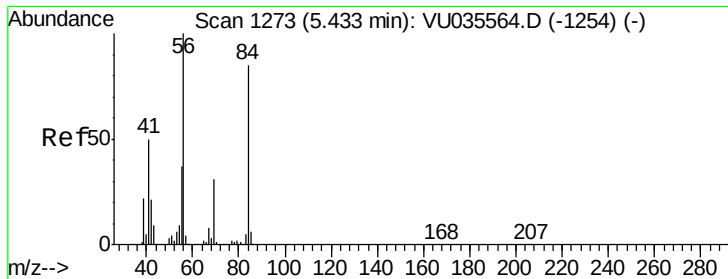
Tgt Ion: 83 Resp: 441583
Ion Ratio Lower Upper
83 100
85 65.2 45.4 84.4



#27
1,2-Dichloroethane
Concen: 50.430 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

Tgt Ion: 62 Resp: 324763
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.2

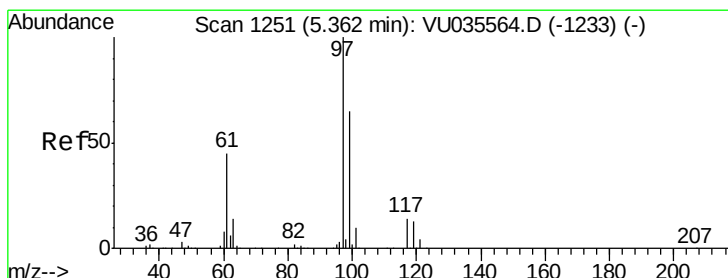
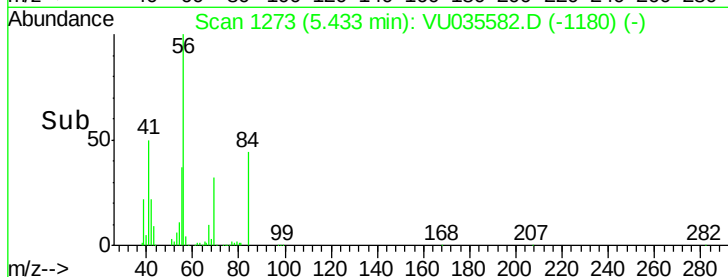
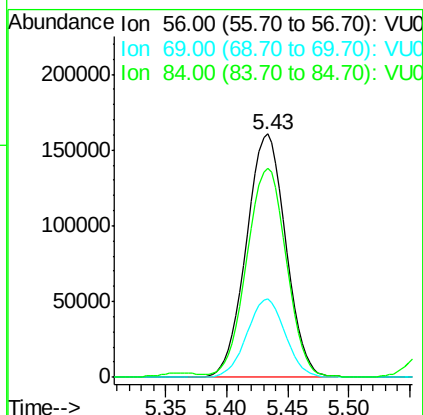
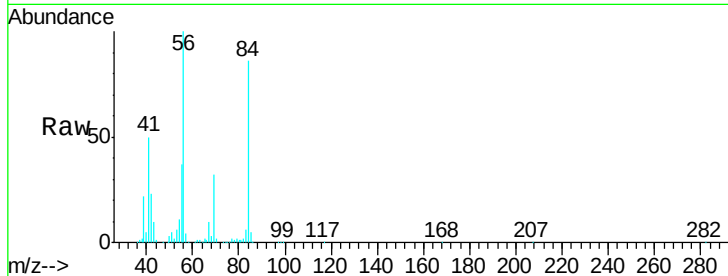




#29
Cyclohexane
Concen: 51.515 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

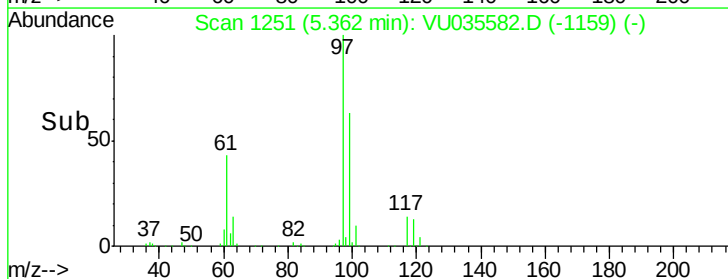
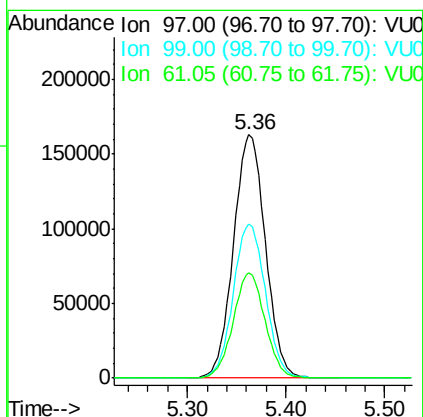
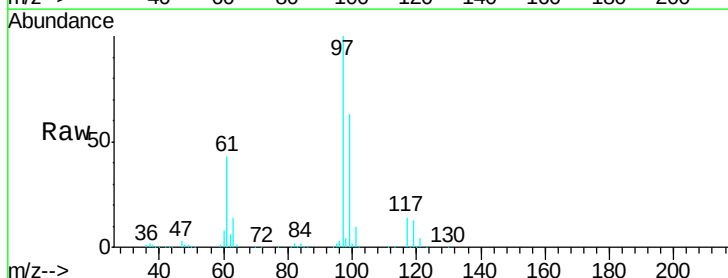
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

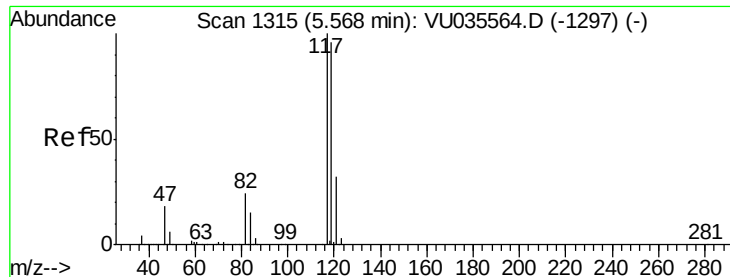
Tgt Ion: 56 Resp: 359308
Ion Ratio Lower Upper
56 100
69 31.3 24.4 36.6
84 86.5 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 51.045 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

Tgt Ion: 97 Resp: 366876
Ion Ratio Lower Upper
97 100
99 64.0 51.5 77.3
61 43.2 35.1 52.7





#31

Carbon tetrachloride

Concen: 51.045 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

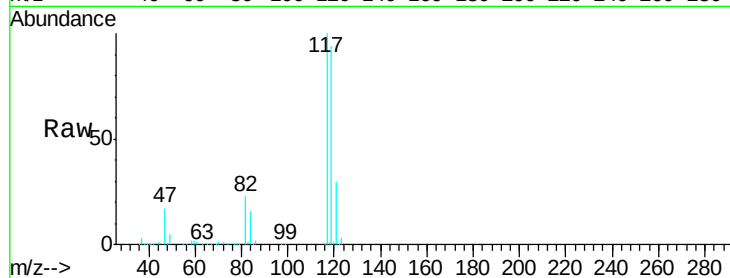
VSTD05031

Tgt Ion:117 Resp: 326217

Ion Ratio Lower Upper

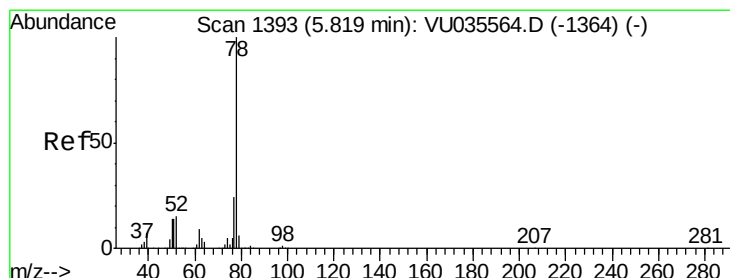
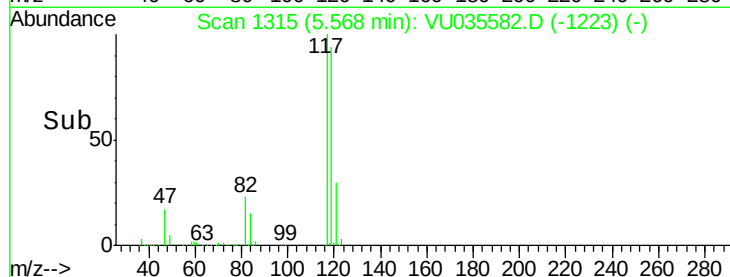
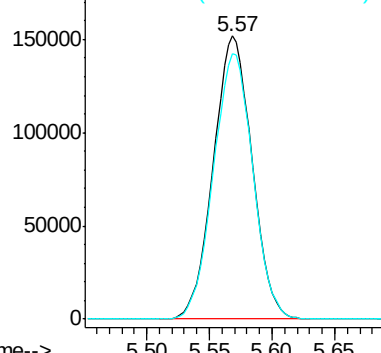
117 100

119 95.7 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.494 ug/L

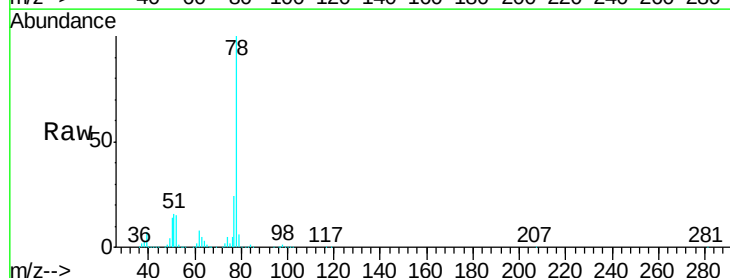
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

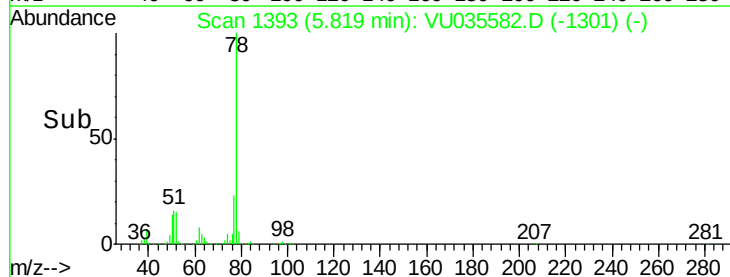
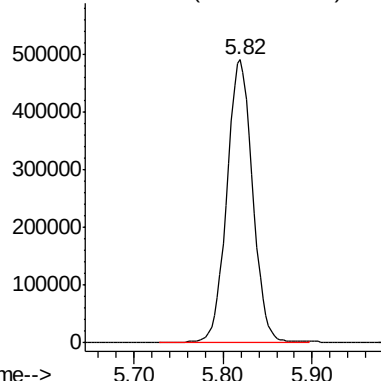
Lab File: VU035582.D

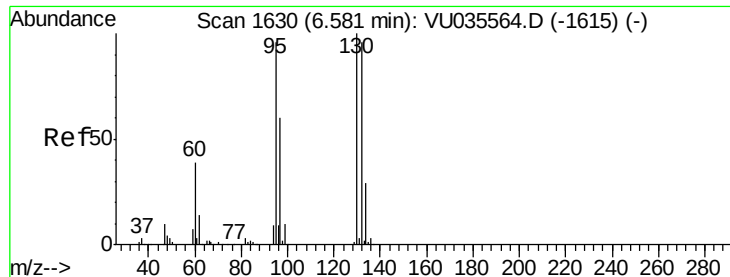
Acq: 31 Oct 2019 08:46

Tgt Ion: 78 Resp: 989622



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.028 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

Tgt Ion: 95 Resp: 244429

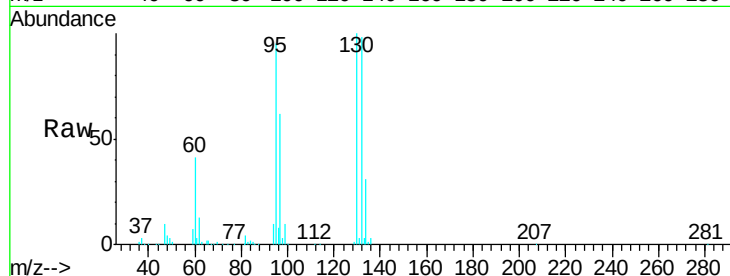
Ion Ratio Lower Upper

95 100

97 65.5 45.6 84.6

132 103.6 69.9 129.7

130 105.6 73.1 135.7

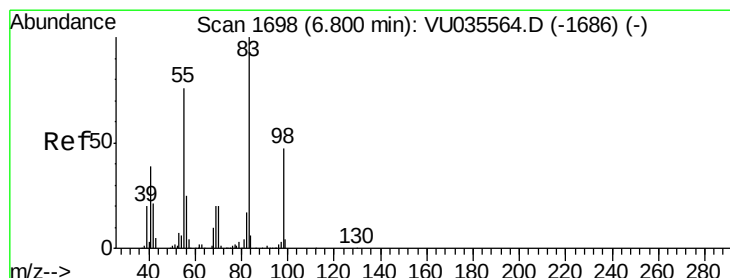
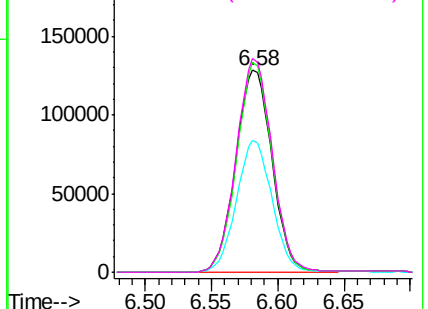
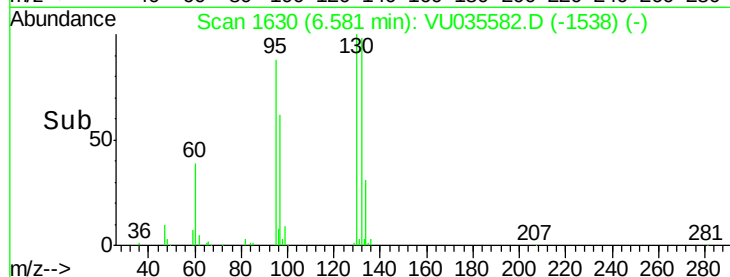


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 50.711 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

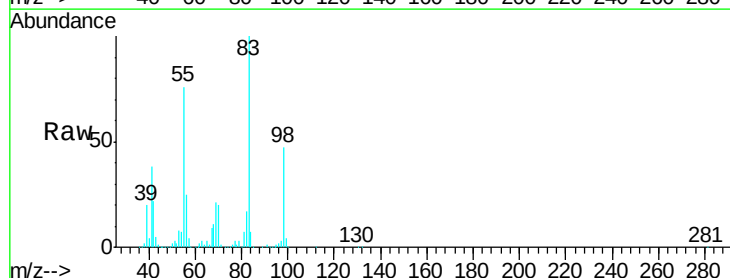
Tgt Ion: 83 Resp: 359837

Ion Ratio Lower Upper

83 100

55 75.2 61.0 91.4

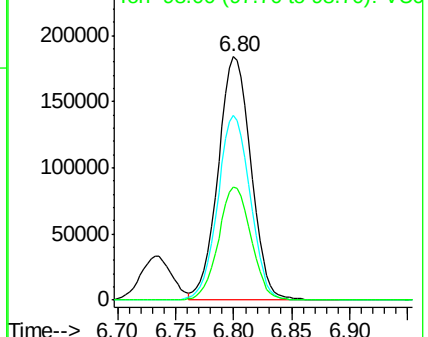
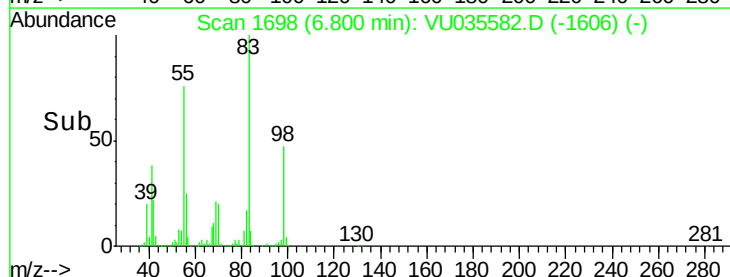
98 46.3 36.6 54.8

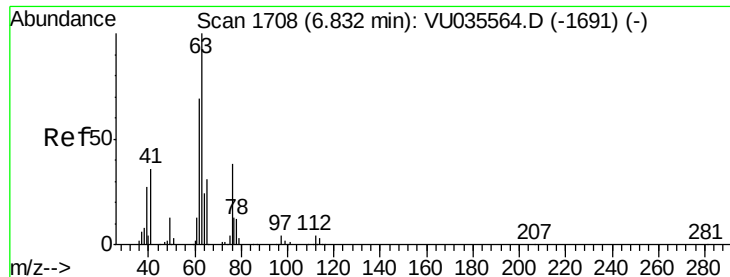


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

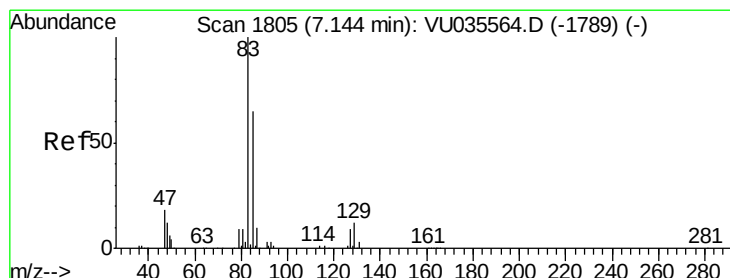
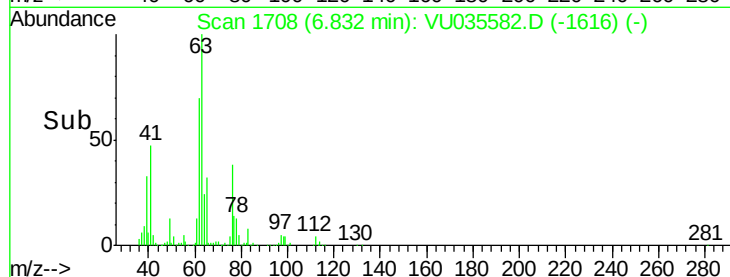
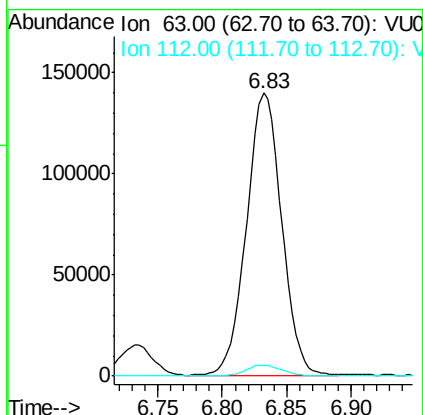
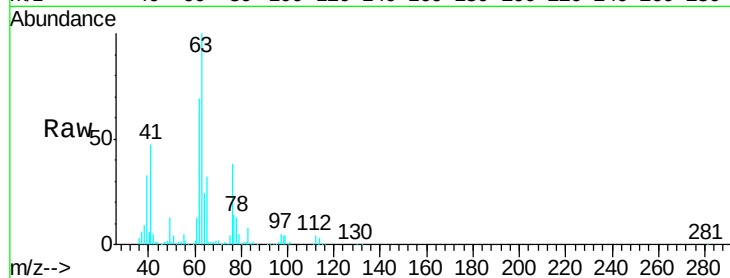




#37
 1,2-Dichloropropane
 Concen: 51.604 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

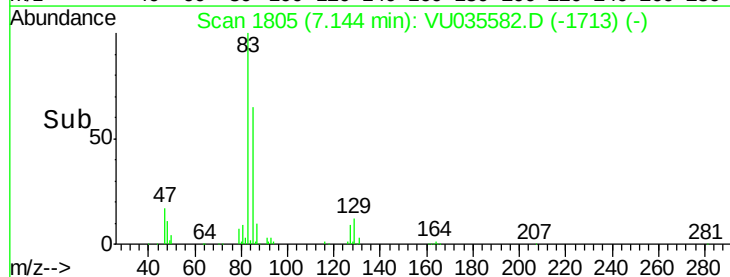
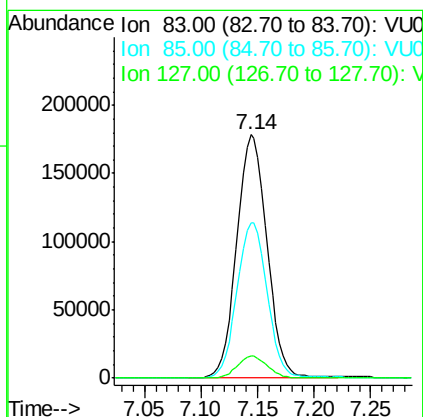
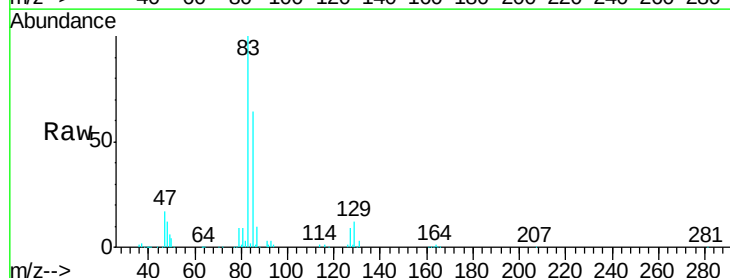
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

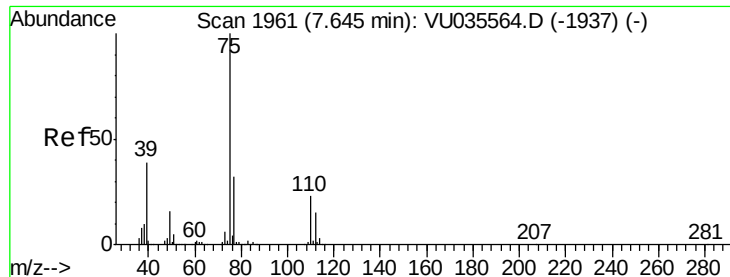
Tgt Ion: 63 Resp: 265579
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 50.944 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

Tgt Ion: 83 Resp: 333257
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.1 83.7
 127 9.0 7.2 10.8

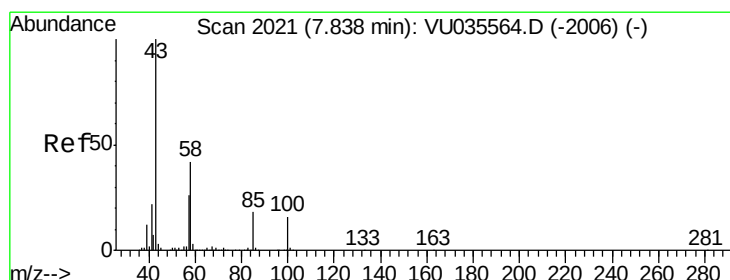
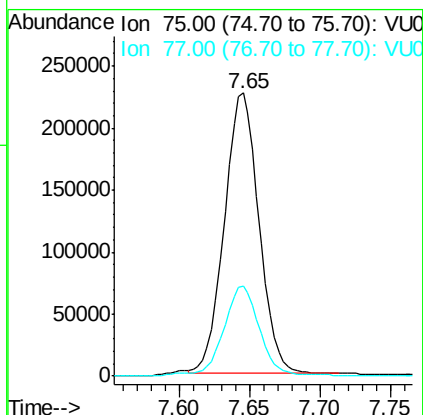
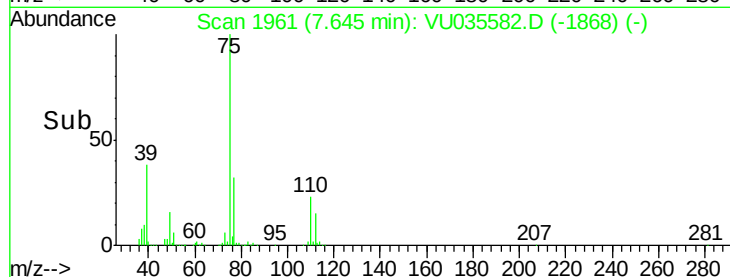
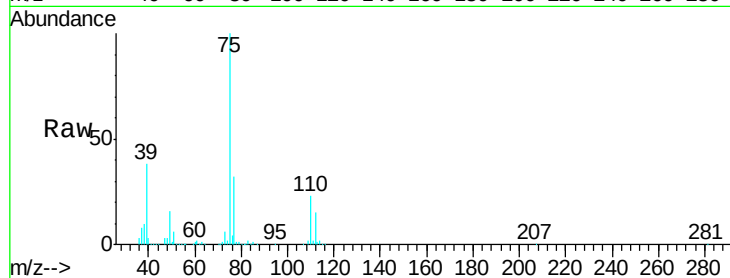




#39
 cis-1,3-Dichloropropene
 Concen: 50.291 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

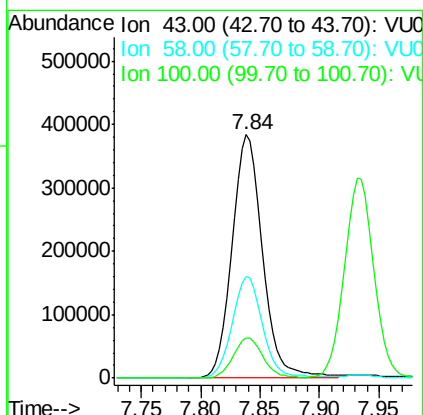
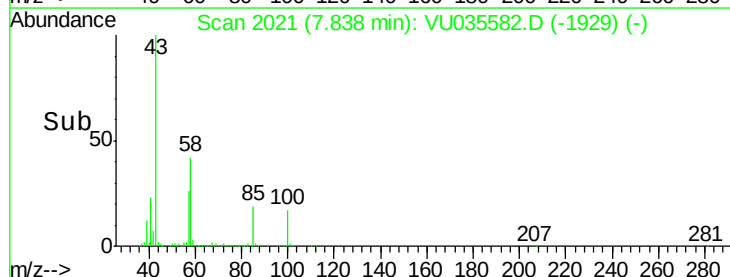
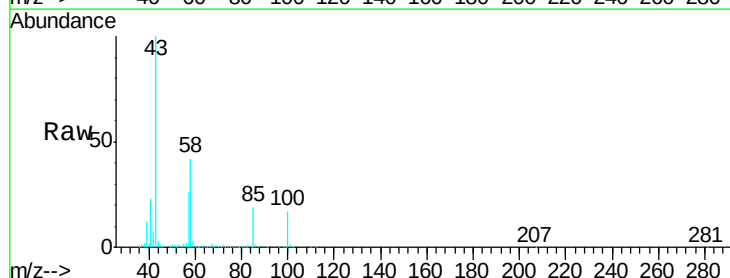
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

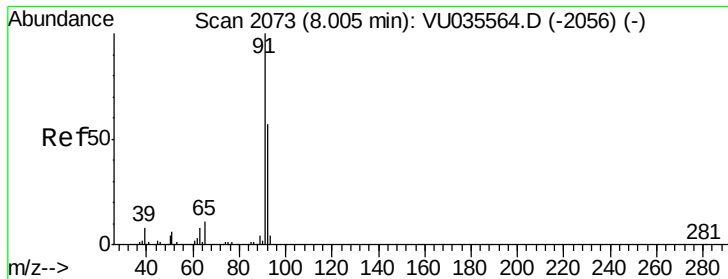
Tgt Ion: 75 Resp: 384712
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 99.442 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

Tgt Ion: 43 Resp: 684675
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.6 49.0
 100 16.2 12.6 19.0





#42

Toluene

Concen: 52.967 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

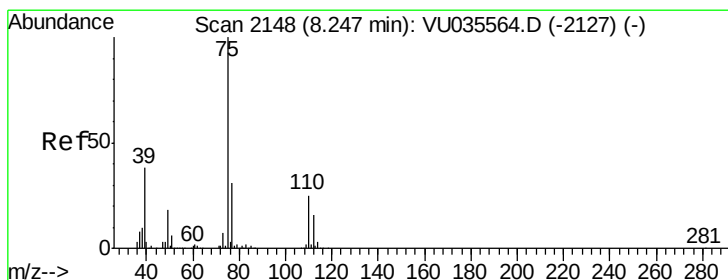
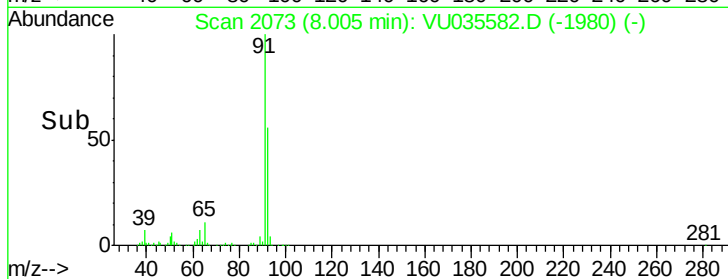
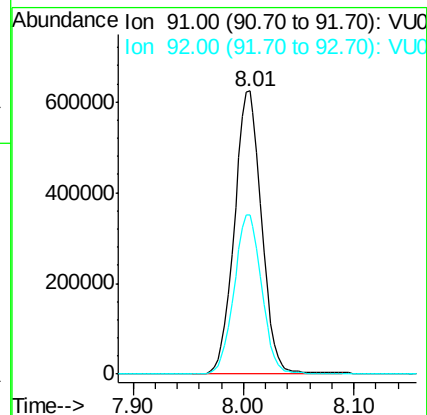
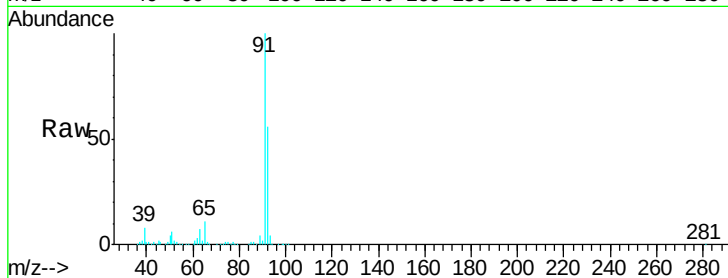
VSTD05031

Tgt Ion: 91 Resp: 1066887

Ion Ratio Lower Upper

91 100

92 56.3 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 51.525 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU035582.D

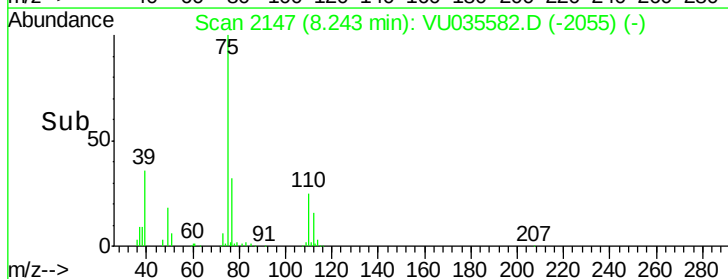
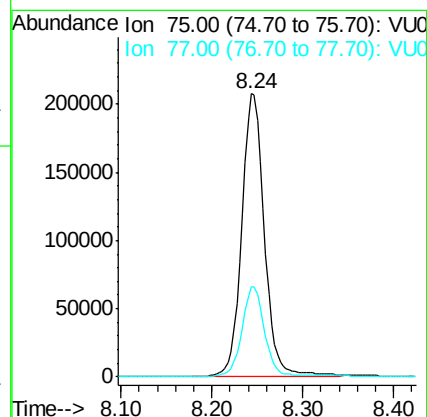
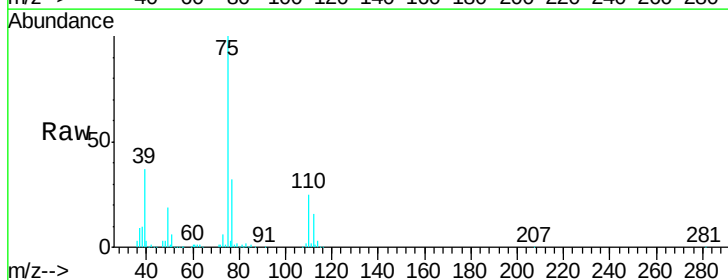
Acq: 31 Oct 2019 08:46

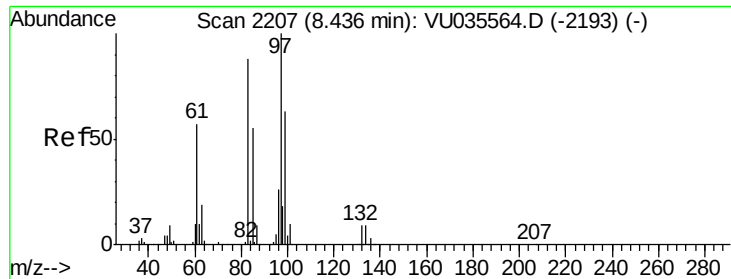
Tgt Ion: 75 Resp: 361294

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1

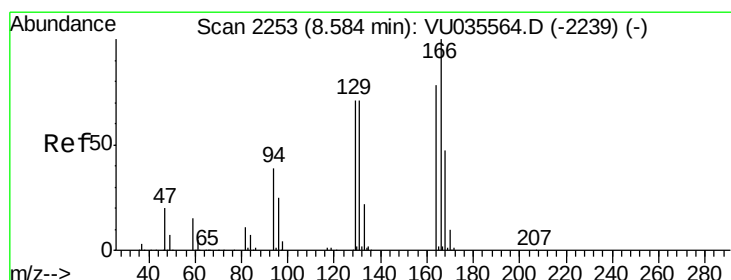
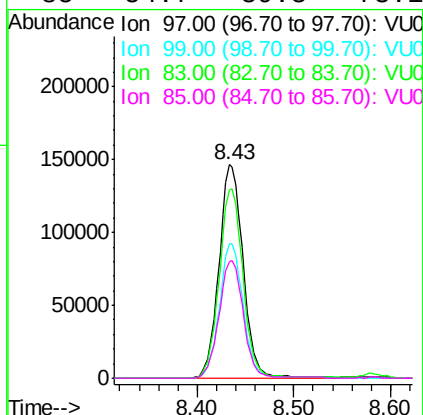
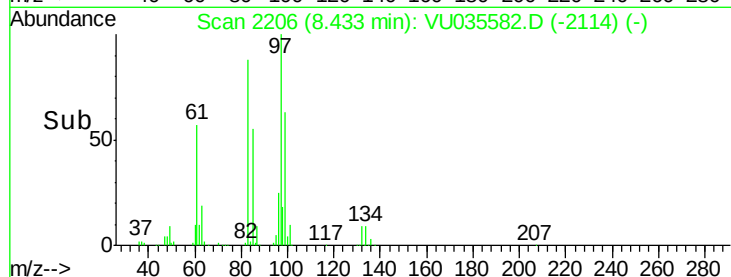
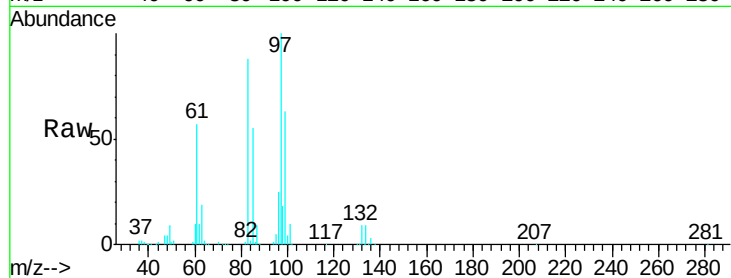




#45
 1,1,2-Trichloroethane
 Concen: 51.516 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

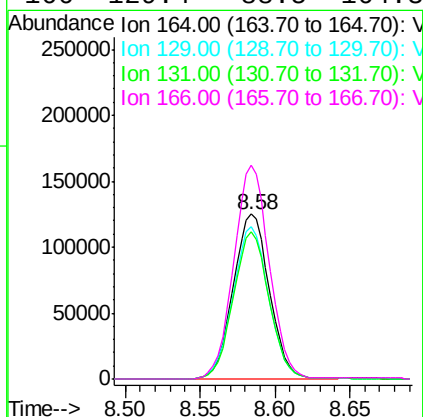
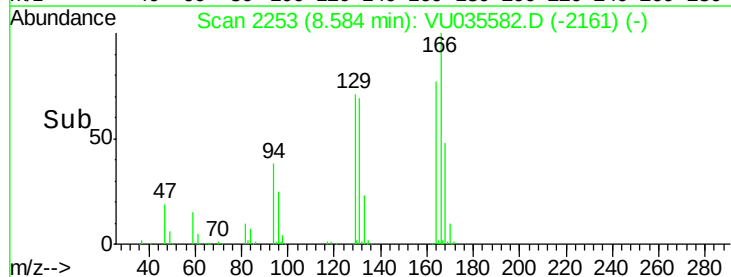
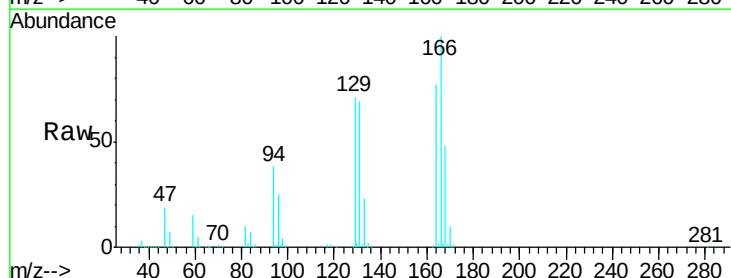
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

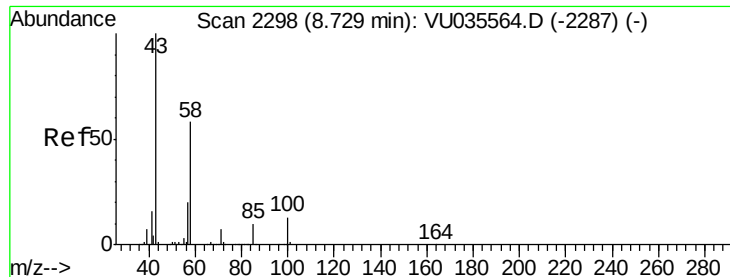
Tgt Ion:	97	Resp:	254126
Ion	Ratio	Lower	Upper
97	100		
99	62.8	44.2	82.2
83	88.4	61.5	114.3
85	54.7	39.3	73.1



#46
 Tetrachloroethene
 Concen: 51.674 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

Tgt Ion:	164	Resp:	211104
Ion	Ratio	Lower	Upper
164	100		
129	92.3	64.1	119.1
131	89.0	63.1	117.1
166	129.4	88.5	164.3

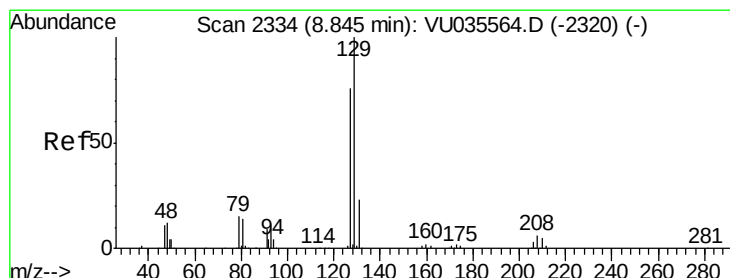
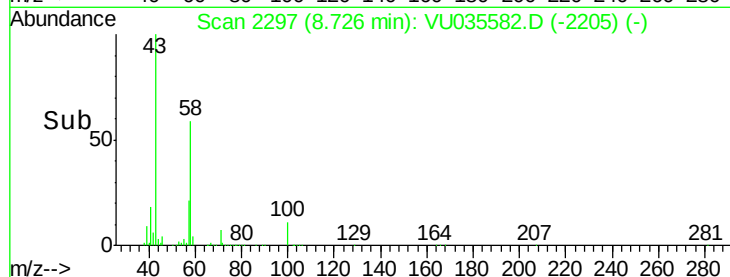
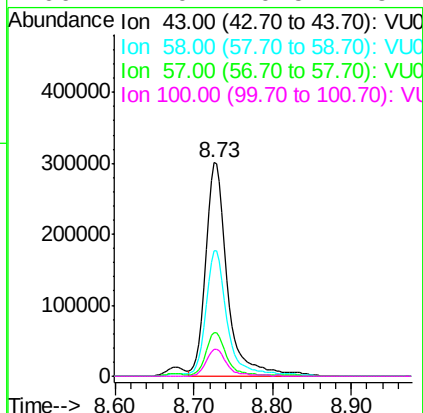
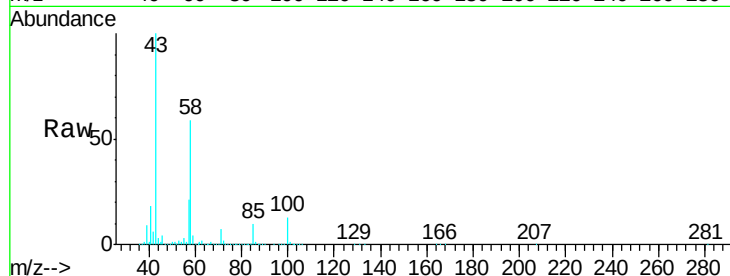




#48
2-Hexanone
Concen: 102.513 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

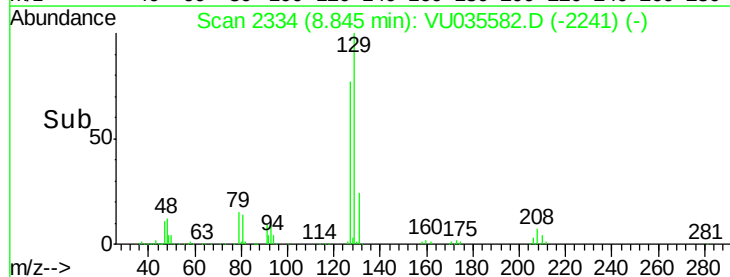
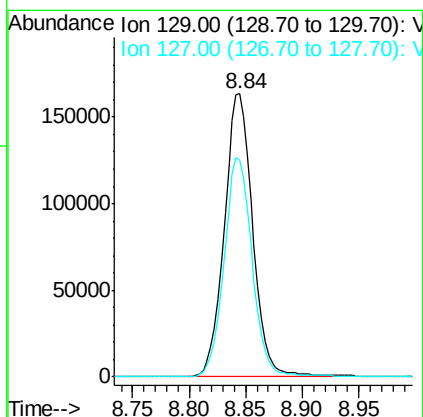
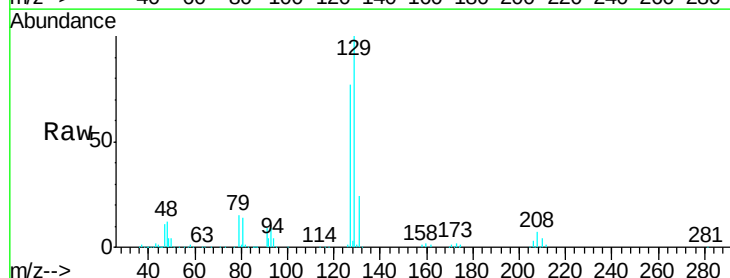
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

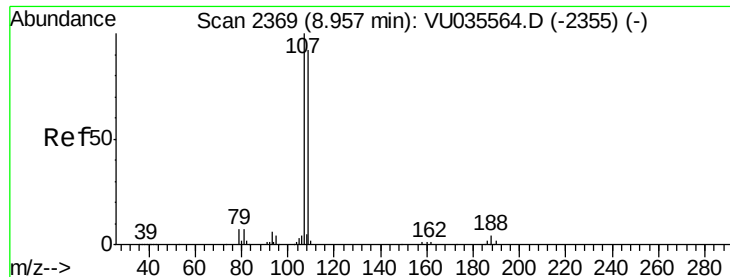
Tgt Ion: 43 Resp: 573971
Ion Ratio Lower Upper
43 100
58 58.2 50.4 75.6
57 18.8 17.4 26.0
100 12.0 10.5 15.7



#49
Dibromochloromethane
Concen: 51.308 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. -0.00 min
Lab File: VU035582.D
Acq: 31 Oct 2019 08:46

Tgt Ion: 129 Resp: 285422
Ion Ratio Lower Upper
129 100
127 76.8 54.9 101.9





#50

1,2-Dibromoethane

Concen: 50.616 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

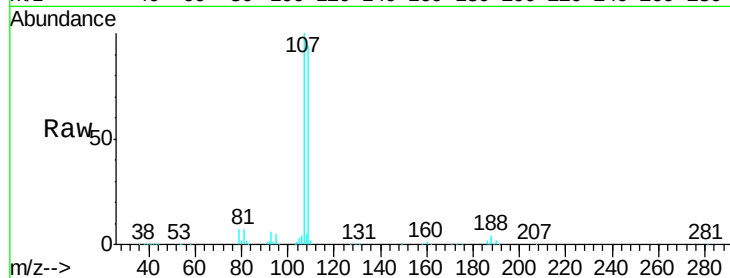
Tgt Ion:107 Resp: 266394

Ion Ratio Lower Upper

107 100

109 93.6 66.8 124.2

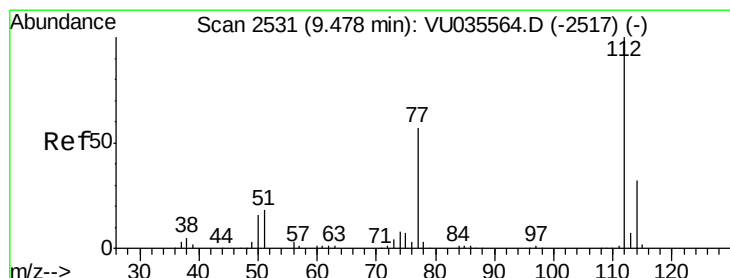
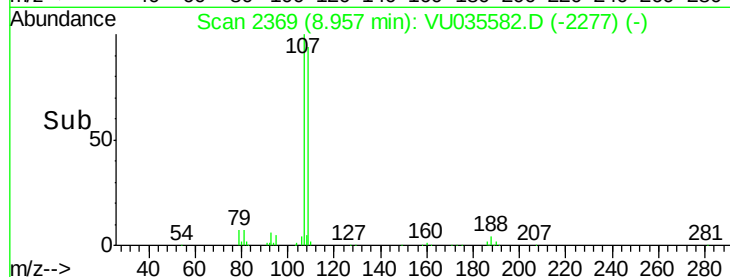
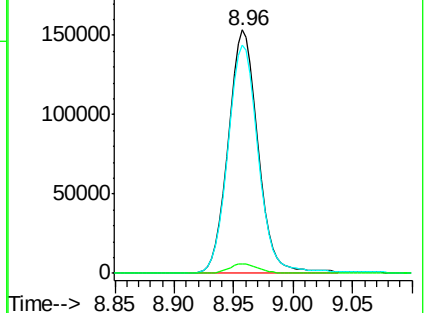
188 4.1 3.2 4.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 50.817 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

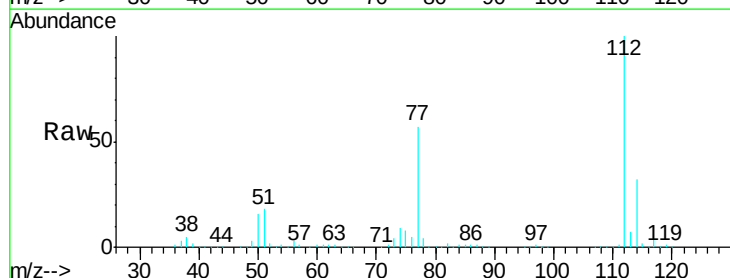
Tgt Ion:112 Resp: 683327

Ion Ratio Lower Upper

112 100

114 32.0 22.7 42.3

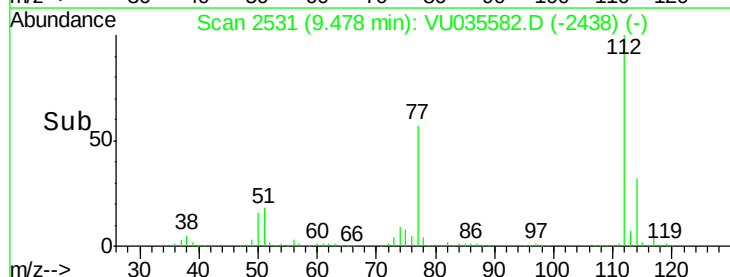
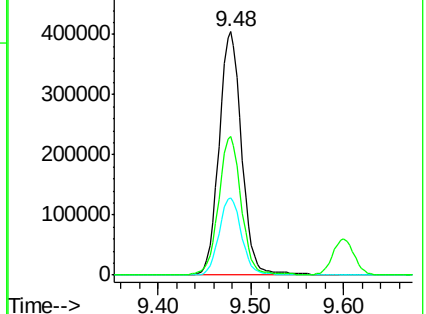
77 57.2 45.9 68.9

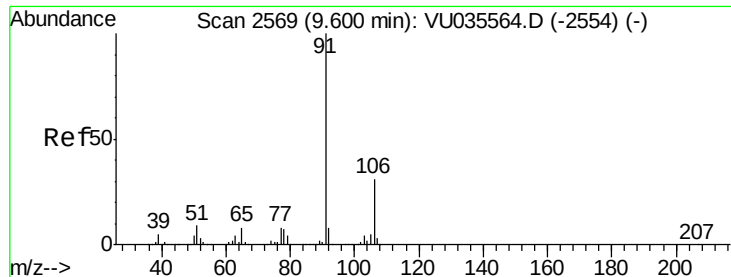


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 52.123 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

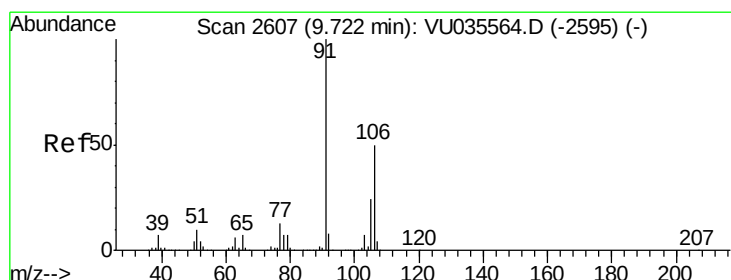
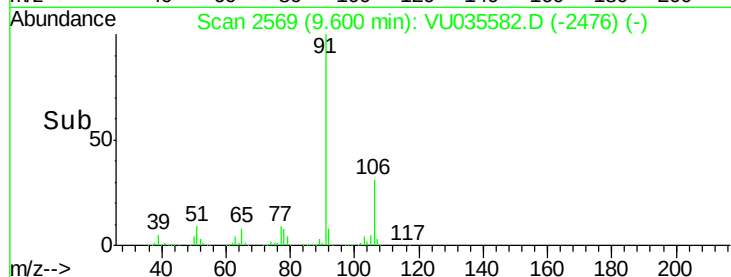
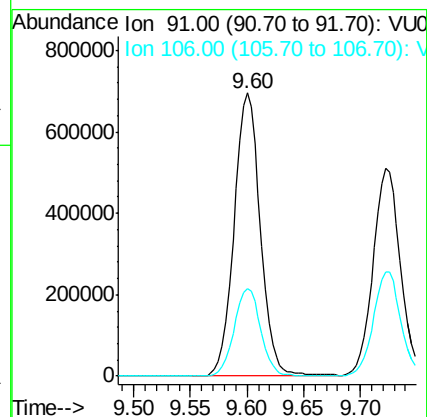
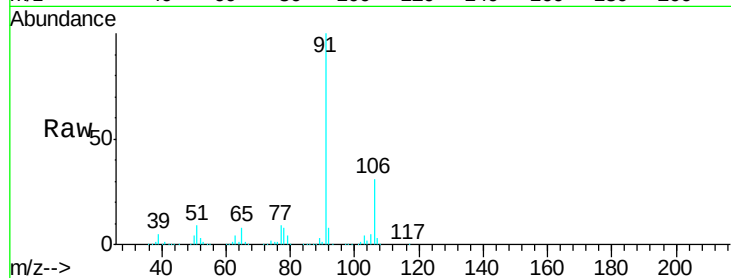
VSTD05031

Tgt Ion: 91 Resp: 1122390

Ion Ratio Lower Upper

91 100

106 31.1 21.6 40.0



#53

m,p-Xylene

Concen: 53.926 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035582.D

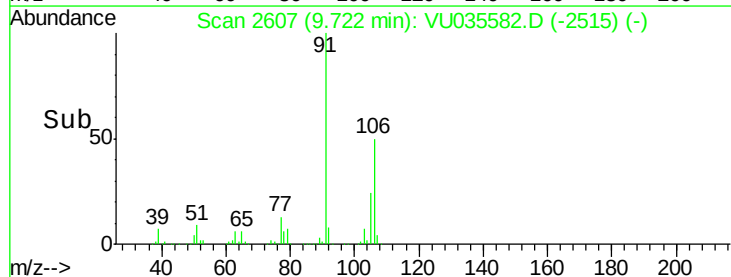
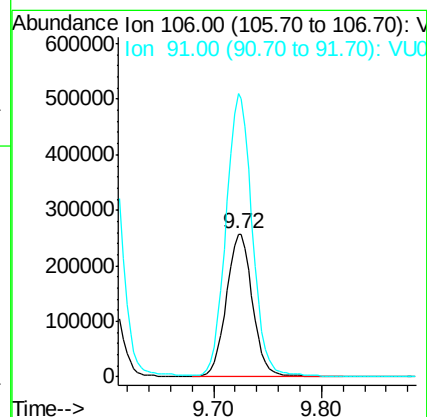
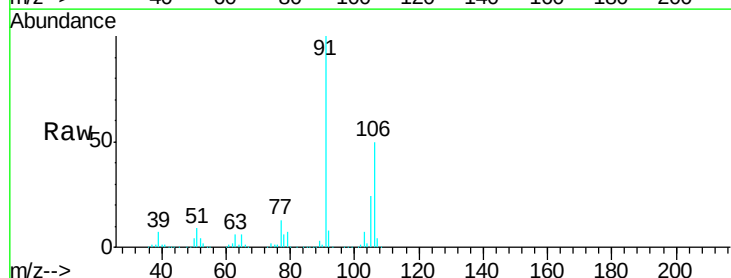
Acq: 31 Oct 2019 08:46

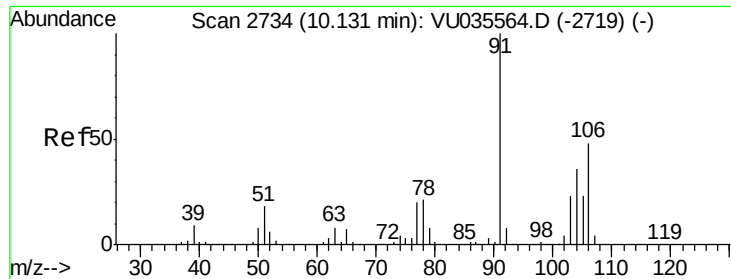
Tgt Ion: 106 Resp: 435733

Ion Ratio Lower Upper

106 100

91 198.2 142.7 264.9





#54

o-xylene

Concen: 53.416 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

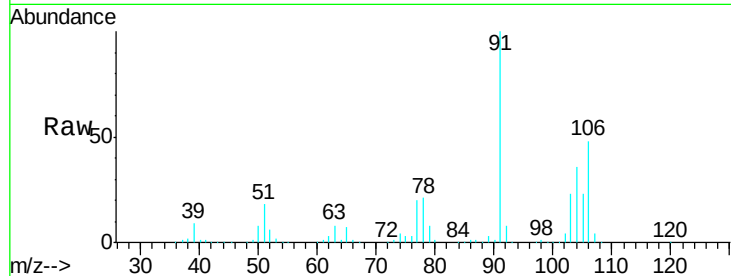
VSTD05031

Tgt Ion:106 Resp: 421849

Ion Ratio Lower Upper

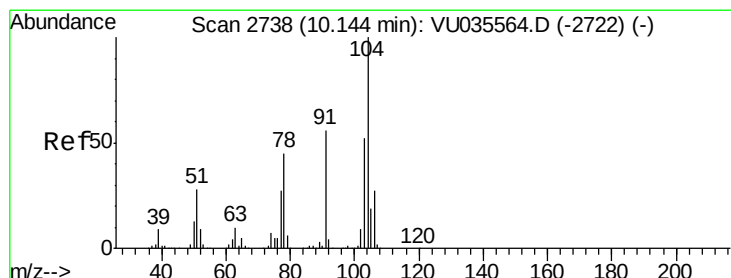
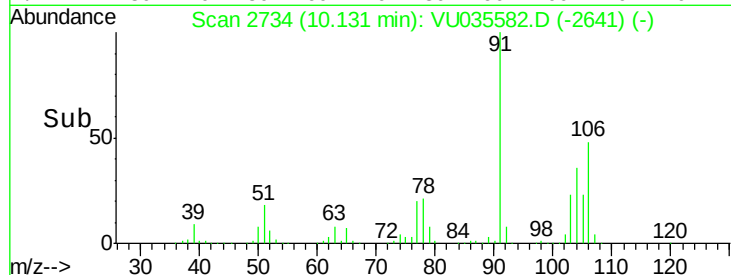
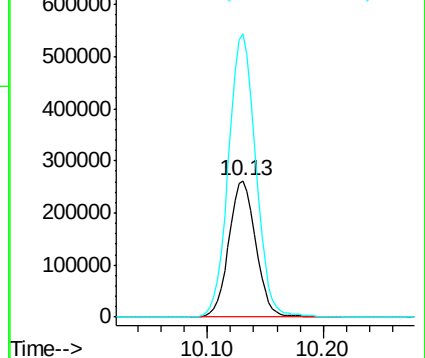
106 100

91 207.6 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.850 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035582.D

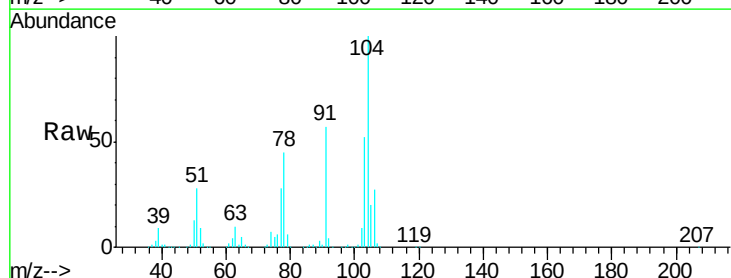
Acq: 31 Oct 2019 08:46

Tgt Ion:104 Resp: 705781

Ion Ratio Lower Upper

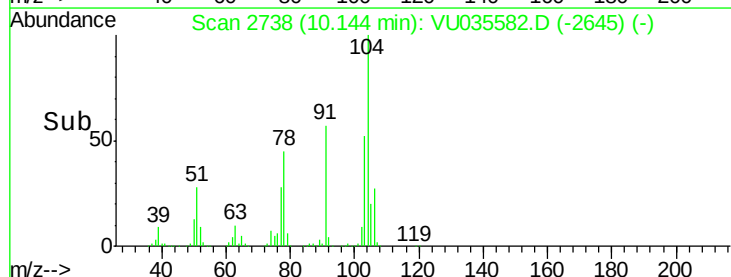
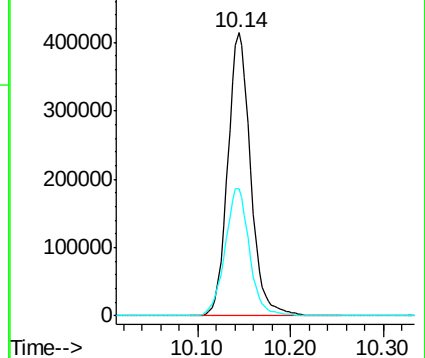
104 100

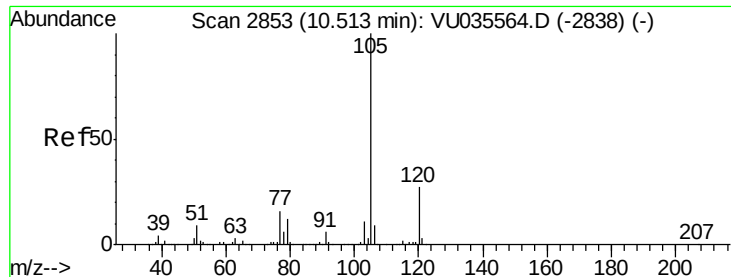
78 45.0 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.428 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

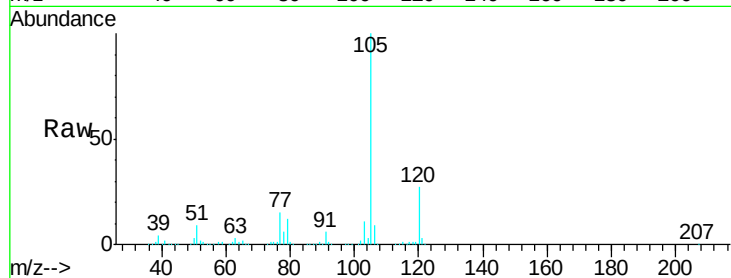
Tgt Ion:105 Resp: 1060314

Ion Ratio Lower Upper

105 100

120 26.7 21.1 31.7

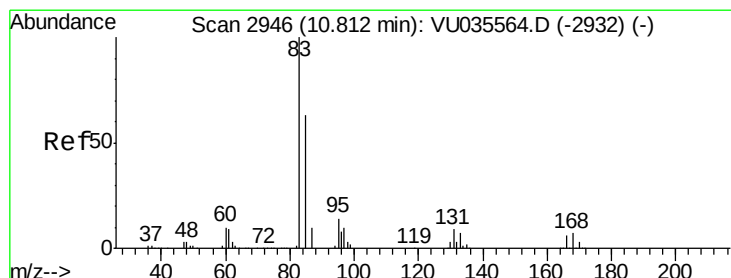
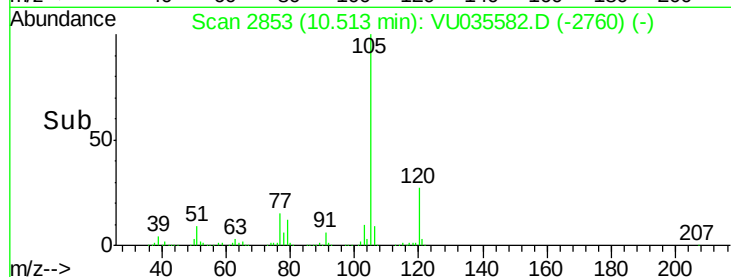
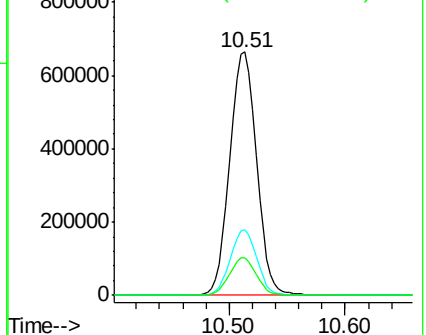
77 15.3 12.2 18.4



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: 50.240 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

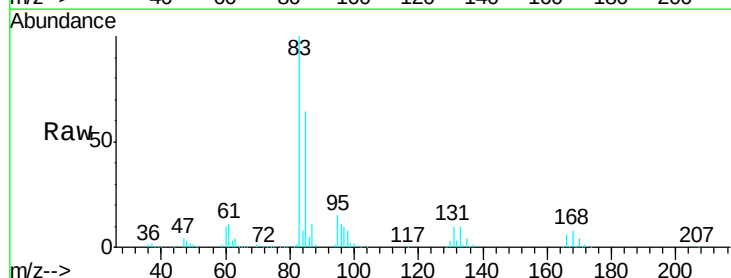
Tgt Ion: 83 Resp: 426884

Ion Ratio Lower Upper

83 100

85 63.8 44.6 82.8

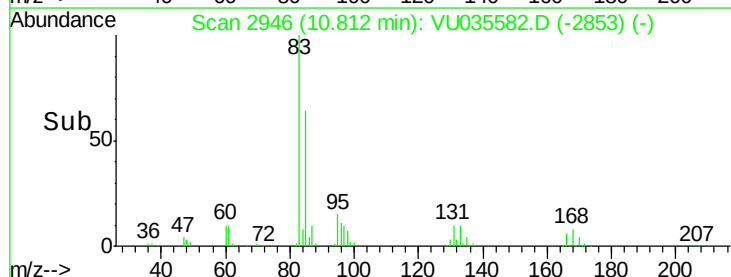
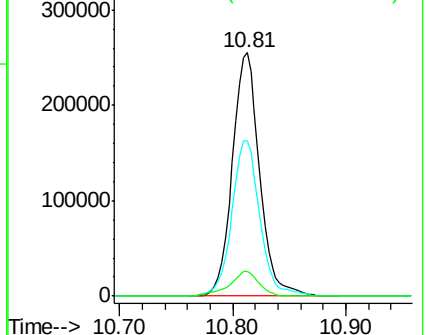
131 10.1 8.2 12.4

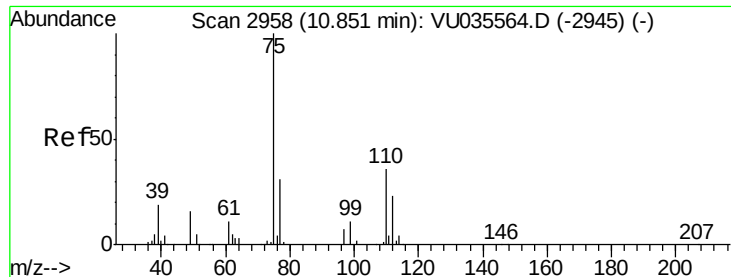


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.119 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

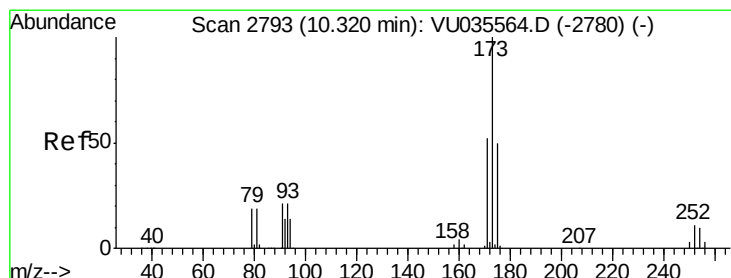
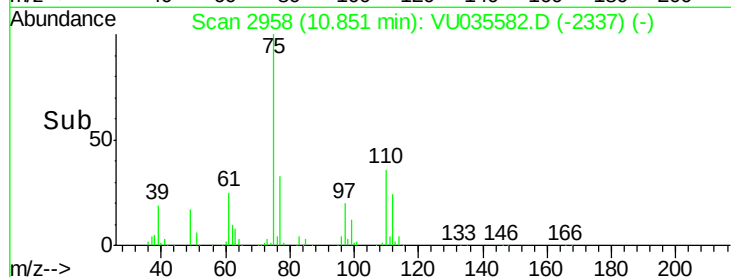
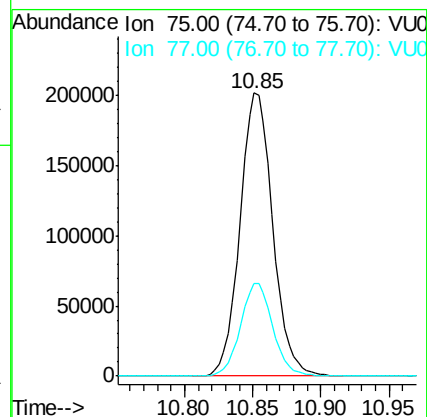
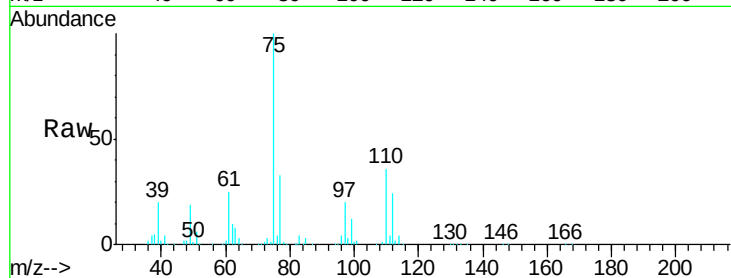
VSTD05031

Tgt Ion: 75 Resp: 336322

Ion Ratio Lower Upper

75 100

77 32.2 25.7 38.5



#61

Bromoform

Concen: 47.862 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

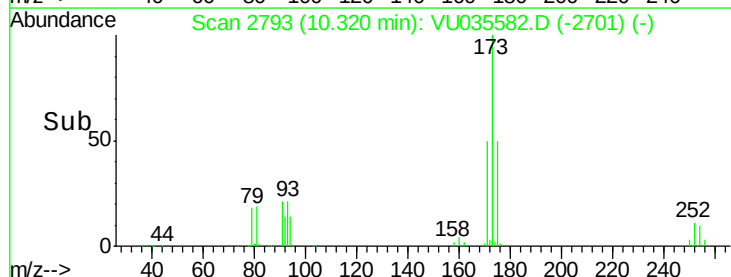
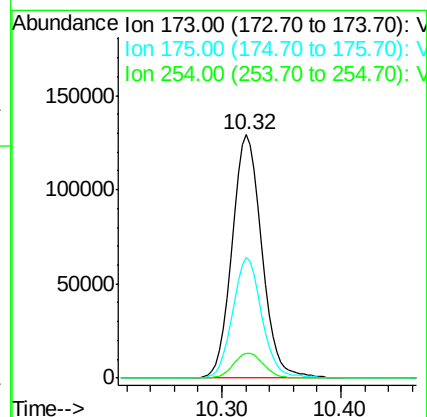
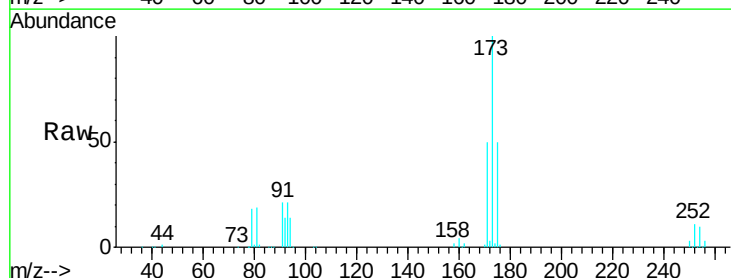
Tgt Ion: 173 Resp: 224103

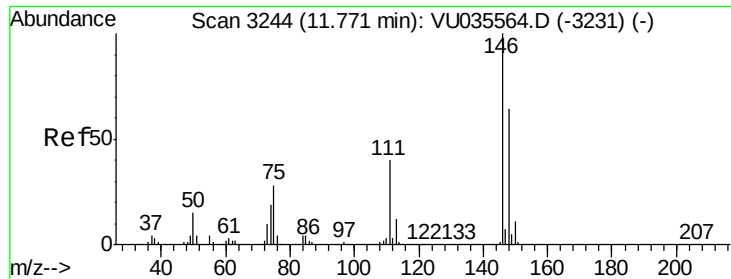
Ion Ratio Lower Upper

173 100

175 48.8 39.4 59.0

254 10.3 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 50.070 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

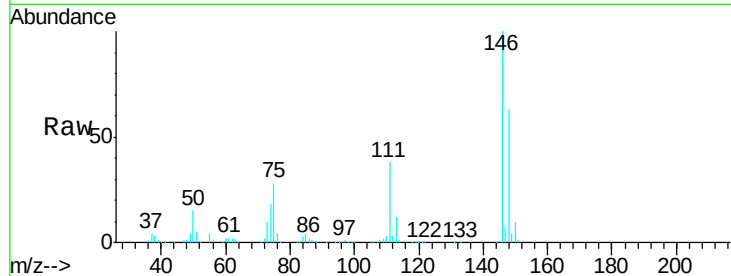
Tgt Ion:146 Resp: 484787

Ion Ratio Lower Upper

146 100

111 38.3 27.8 51.6

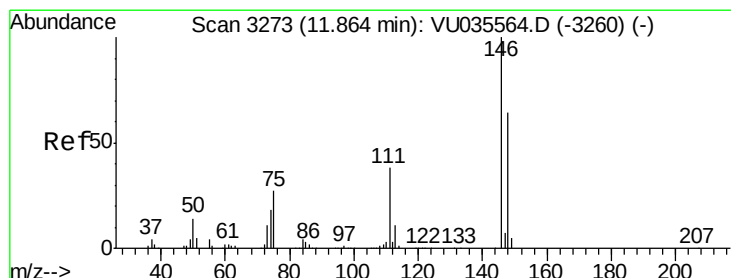
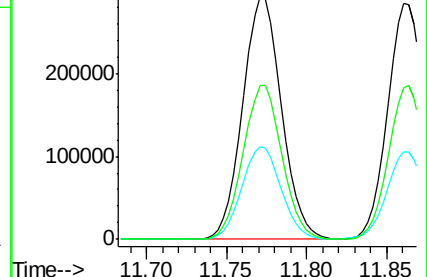
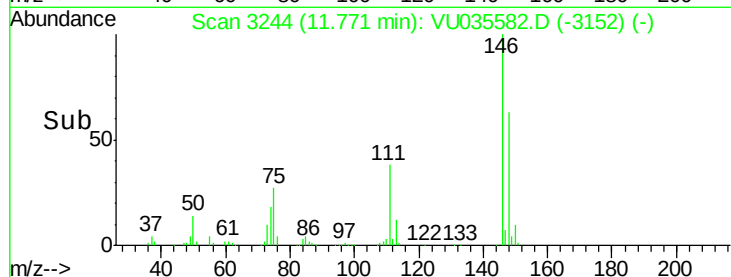
148 63.2 44.5 82.7



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: 48.516 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

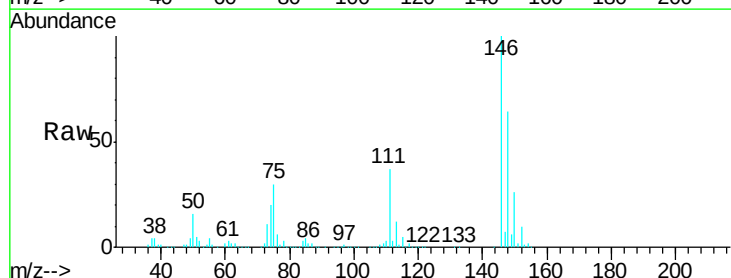
Tgt Ion:146 Resp: 477196

Ion Ratio Lower Upper

146 100

111 37.1 26.5 49.1

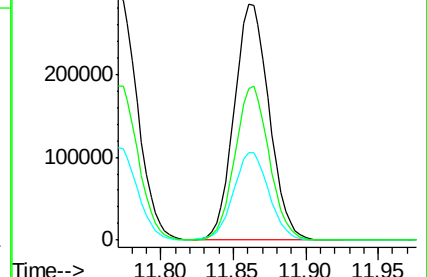
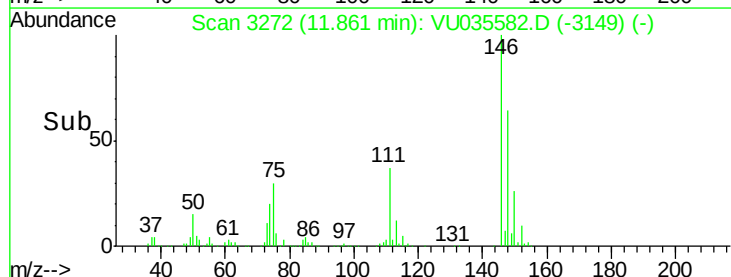
148 64.2 44.4 82.5

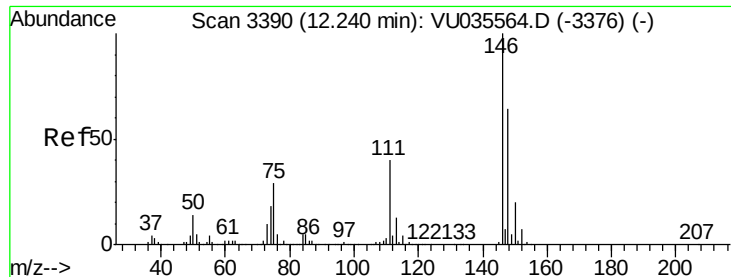


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 48.900 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

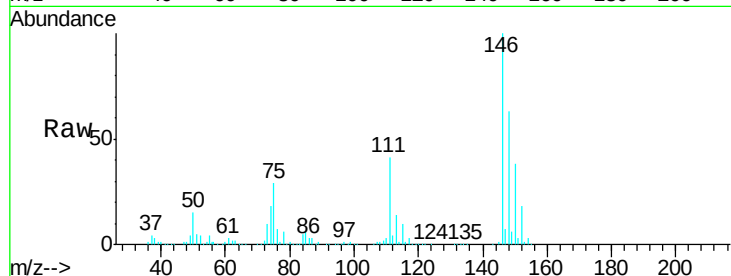
Tgt Ion:146 Resp: 482008

Ion Ratio Lower Upper

146 100

111 40.8 32.4 48.6

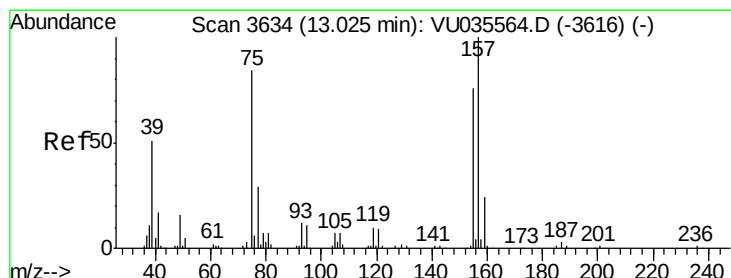
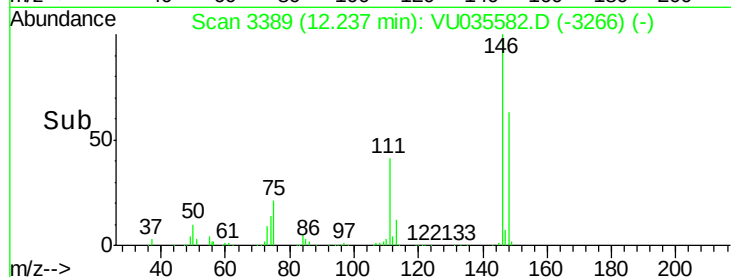
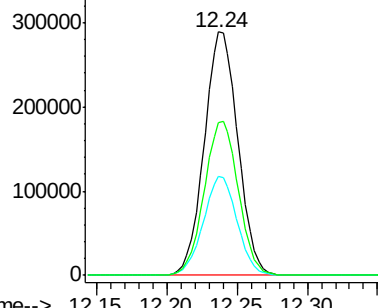
148 62.7 51.8 77.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 48.196 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

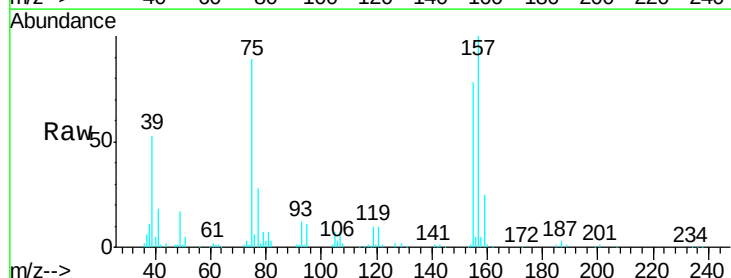
Tgt Ion: 75 Resp: 73657

Ion Ratio Lower Upper

75 100

155 88.3 72.2 108.4

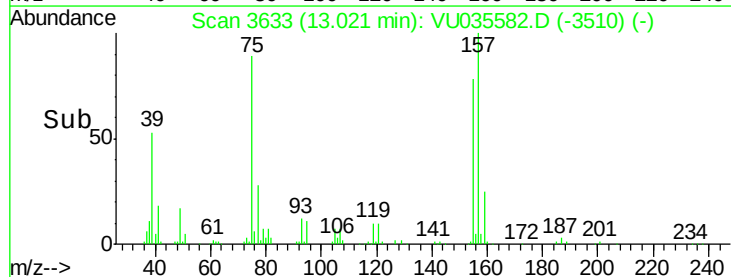
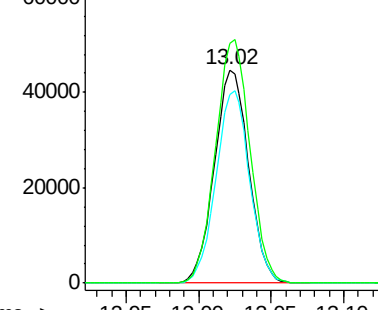
157 112.5 92.1 138.1

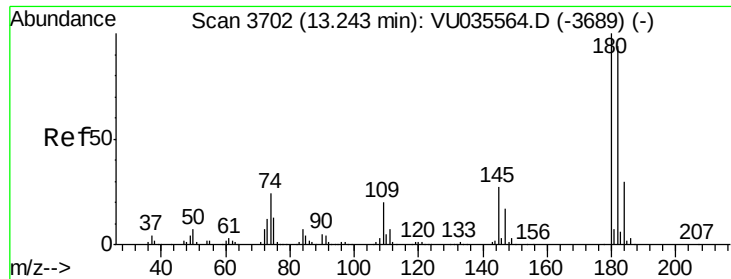


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

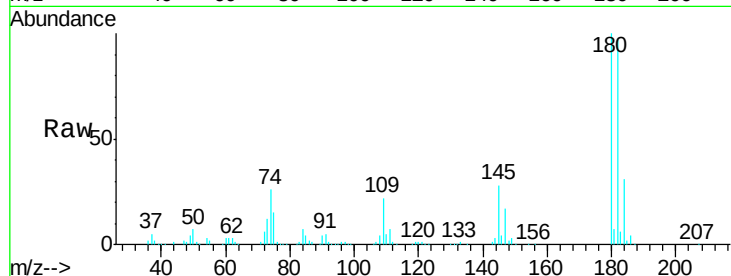




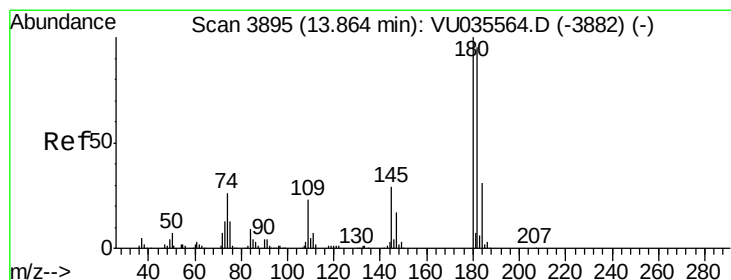
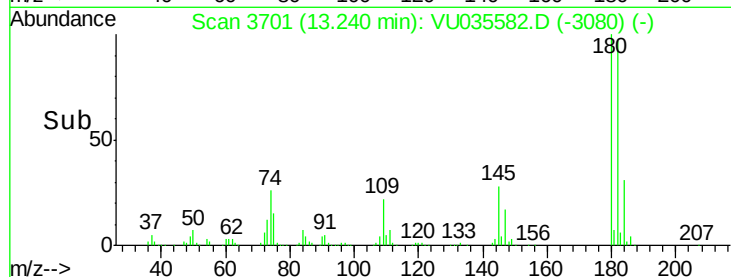
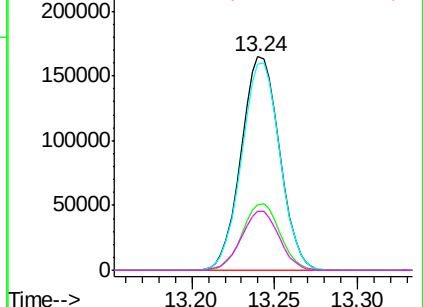
#67
 1,3,5-Trichlorobenzene
 Concen: 47.462 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

Tgt Ion:180 Resp: 265482
 Ion Ratio Lower Upper
 180 100
 182 96.5 77.0 115.4
 184 30.7 24.6 36.8
 145 27.2 21.7 32.5

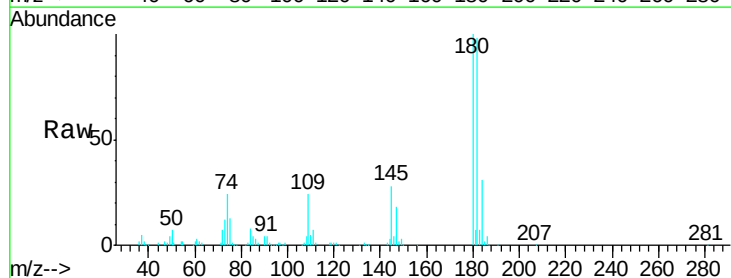


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

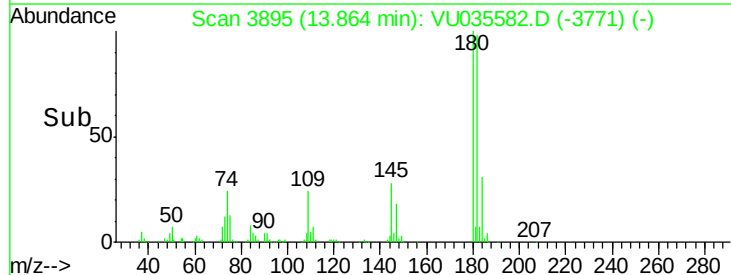
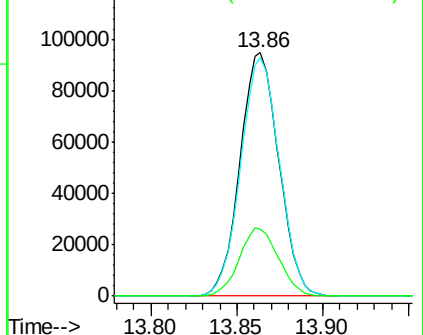


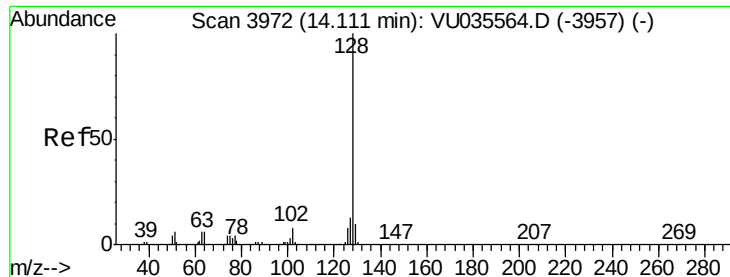
#68
 1,2,4-trichlorobenzene
 Concen: 39.721 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035582.D
 Acq: 31 Oct 2019 08:46

Tgt Ion:180 Resp: 148834
 Ion Ratio Lower Upper
 180 100
 182 97.7 76.6 115.0
 145 28.2 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: 35.504 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

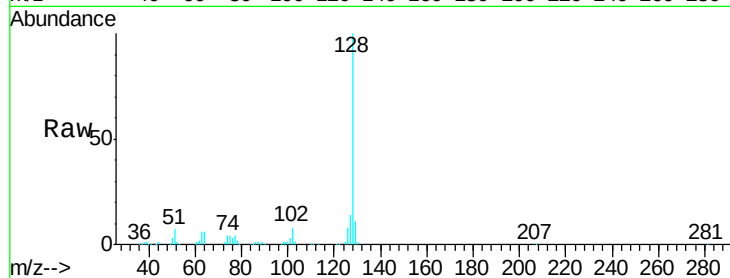
Tgt Ion:128 Resp: 341225

Ion Ratio Lower Upper

128 100

127 13.7 10.7 16.1

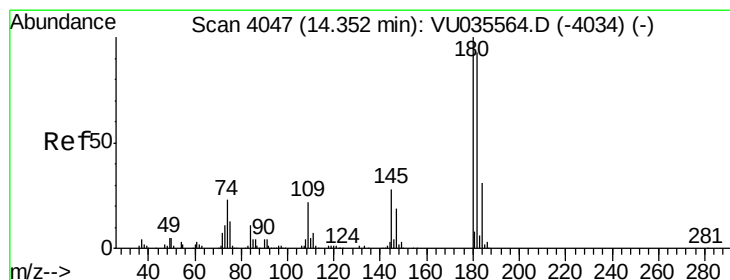
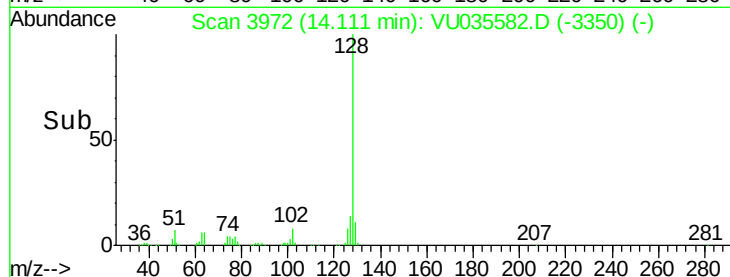
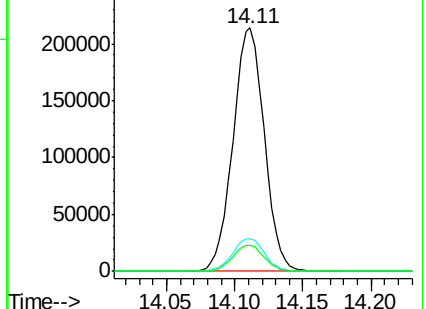
129 10.8 8.5 12.7



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: 39.230 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035582.D

Acq: 31 Oct 2019 08:46

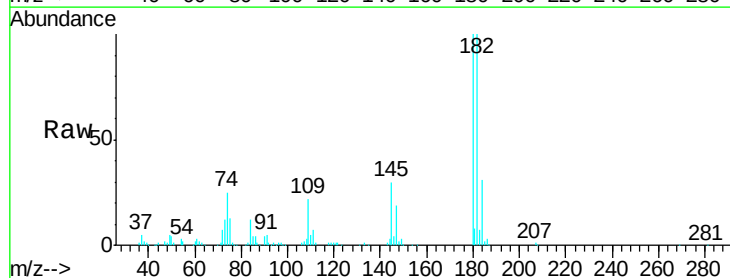
Tgt Ion:180 Resp: 158379

Ion Ratio Lower Upper

180 100

182 98.1 77.6 116.4

145 29.7 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

