

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110519\
 Data File : VU035635.D
 Acq On : 05 Nov 2019 16:55
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Quant Time: Nov 06 03:07:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 06 03:03:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.30	114	664392	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	653795	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	302960	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	203660	37.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.90%
7) Chloroethane-d5	1.93	69	178433	41.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.28%
11) 1,1-Dichloroethene-d2	2.60	63	348250	41.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.46%
21) 2-Butanone-d5	4.69	46	300846	95.98	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.98%
24) Chloroform-d	5.12	84	388255	46.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.70%
26) 1,2-Dichloroethane-d4	5.75	65	228993	45.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.22%
32) Benzene-d6	5.77	84	767729	45.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.10%
36) 1,2-Dichloropropane-d6	6.74	67	253743	45.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.82%
41) Toluene-d8	7.93	98	713805	44.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.82%
43) trans-1,3-Dichloropropene-	8.21	79	116841	45.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.80%
47) 2-Hexanone-d5	8.68	63	206077	97.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.29%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	379154	48.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.48%
64) 1,2-Dichlorobenzene-d4	12.22	152	272900	44.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.32%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	245299	47.342	ug/L 100
3) Chloromethane	1.54	50	266287	47.156	ug/L 100
5) Vinyl chloride	1.62	62	284411	46.809	ug/L 99
6) Bromomethane	1.87	94	155651	50.577	ug/L 94
8) Chloroethane	1.95	64	169484	47.960	ug/L 98
9) Trichlorofluoromethane	2.16	101	356123	49.480	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	208179	50.383	ug/L 99
12) 1,1-Dichloroethene	2.61	96	196576	48.436	ug/L 97
13) Acetone	2.67	43	244681	88.724	ug/L 99
14) Carbon disulfide	2.83	76	558203	44.643	ug/L 99
15) Methyl Acetate	2.99	43	238392	47.726	ug/L 98
16) Methylene chloride	3.09	84	241135	48.694	ug/L 95
17) trans-1,2-Dichloroethene	3.40	96	208645	48.818	ug/L 99
18) Methyl tert-butyl Ether	3.42	73	650954	50.377	ug/L 99
19) 1,1-Dichloroethane	3.92	63	403934	48.995	ug/L 99
20) cis-1,2-Dichloroethene	4.72	96	242961	50.400	ug/L 96
22) 2-Butanone	4.77	43	351326	96.506	ug/L 98

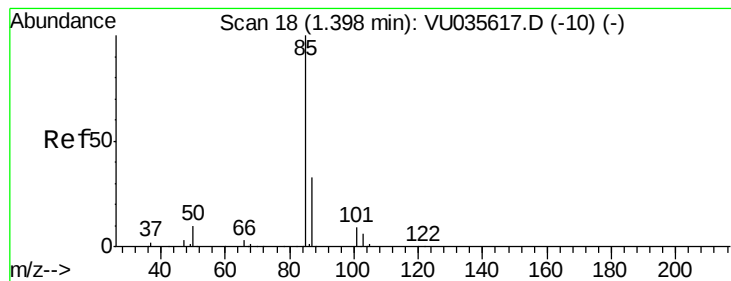
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110519\
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 QLast Update : Wed Nov 06 03:03:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.03	128	130173	51.101	uq/L	95
25) Chloroform	5.14	83	414185	49.466	uq/L	99
27) 1,2-Dichloroethane	5.84	62	302443	49.441	uq/L	99
29) Cyclohexane	5.43	56	327819	49.158	uq/L	98
30) 1,1,1-Trichloroethane	5.37	97	345635	50.298	uq/L	99
31) Carbon tetrachloride	5.57	117	307397	50.309	uq/L	99
33) Benzene	5.82	78	918561	49.991	uq/L	100
34) Trichloroethene	6.58	95	225914	48.362	uq/L	97
35) Methylcyclohexane	6.80	83	343170	50.583	uq/L	99
37) 1,2-Dichloropropane	6.84	63	248309	50.464	uq/L	100
38) Bromodichloromethane	7.15	83	307078	49.098	uq/L	99
39) cis-1,3-Dichloropropene	7.65	75	375163	51.295	uq/L	99
40) 4-Methyl-2-pentanone	7.84	43	630962	95.850	uq/L	98
42) Toluene	8.01	91	1004260	52.148	uq/L	100
44) trans-1,3-Dichloropropene	8.25	75	337852	50.394	uq/L	98
45) 1,1,2-Trichloroethane	8.44	97	237325	50.320	uq/L	99
46) Tetrachloroethene	8.58	164	199567	51.093	uq/L	98
48) 2-Hexanone	8.73	43	489215	91.388	uq/L	92
49) Dibromochloromethane	8.84	129	273369	51.398	uq/L	98
50) 1,2-Dibromoethane	8.96	107	257233	51.120	uq/L	99
51) Chlorobenzene	9.48	112	654244	50.889	uq/L	99
52) Ethylbenzene	9.60	91	1051178	51.058	uq/L	98
53) m,p-Xylene	9.73	106	413795	53.563	uq/L	95
54) o-xylene	10.13	106	402121	53.256	uq/L	100
55) Styrene	10.14	104	664090	52.996	uq/L	98
56) Isopropylbenzene	10.51	105	1012793	53.377	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	409372	50.392	uq/L	98
59) 1,2,3-Trichloropropane	10.85	75	317828	49.538	uq/L	99
61) Bromoform	10.32	173	214647	46.441	uq/L	100
62) 1,3-Dichlorobenzene	11.77	146	459996	48.130	uq/L	98
63) 1,4-Dichlorobenzene	11.86	146	445714	45.907	uq/L	99
65) 1,2-Dichlorobenzene	12.24	146	460380	47.316	uq/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	66002	43.751	uq/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	244425	44.267	uq/L	99
68) 1,2,4-trichlorobenzene	13.86	180	132513	35.827	uq/L	98
69) Naphthalene	14.11	128	295406	31.138	uq/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	146078	36.655	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.342 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

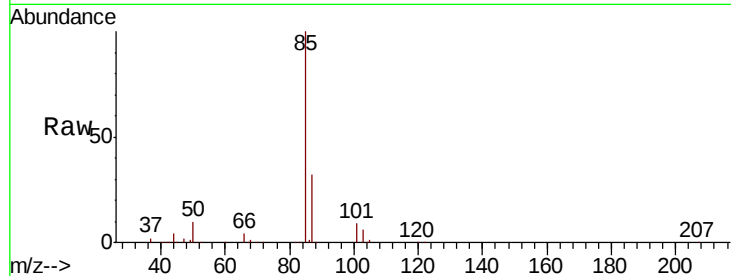
VSTD05036

Tot Ion: 85 Resp: 245299

Ion Ratio Lower Upper

85 100

87 31.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035617.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035617.D (-10) (-)

1.40

250000

200000

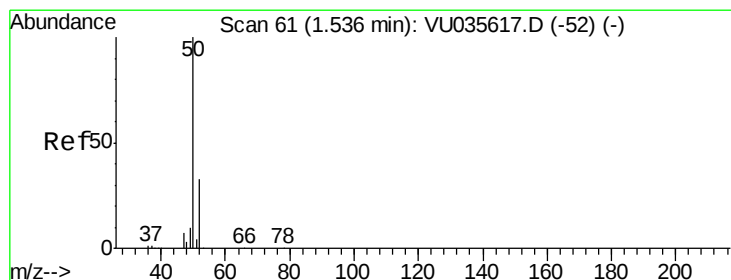
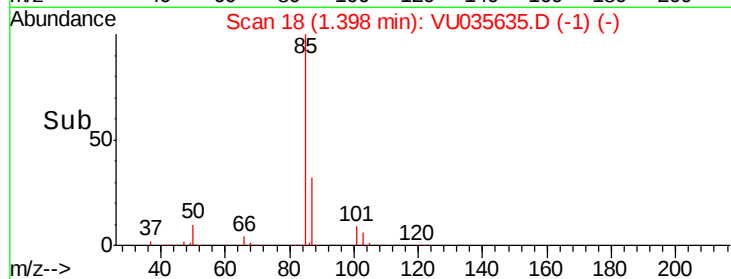
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.156 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035635.D

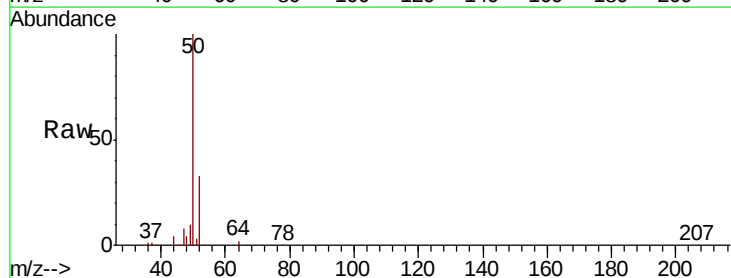
Acq: 05 Nov 2019 16:55

Tgt Ion: 50 Resp: 266287

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035617.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035617.D (-52) (-)

1.54

250000

200000

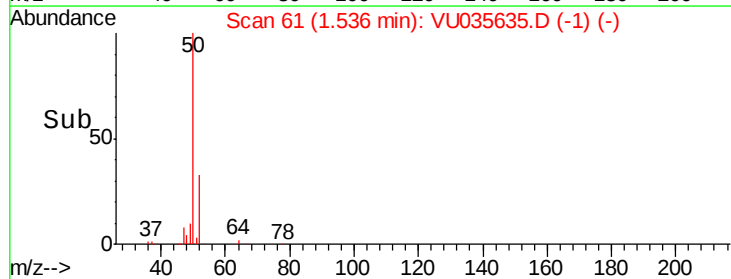
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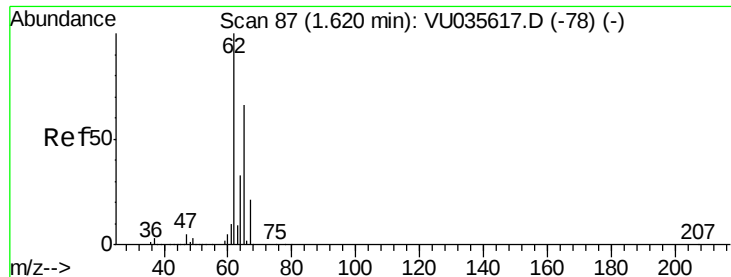
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50000

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Time-->





#5

Vinyl chloride

Concen: 46.809 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

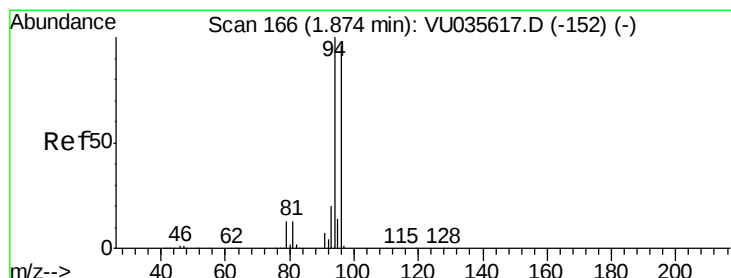
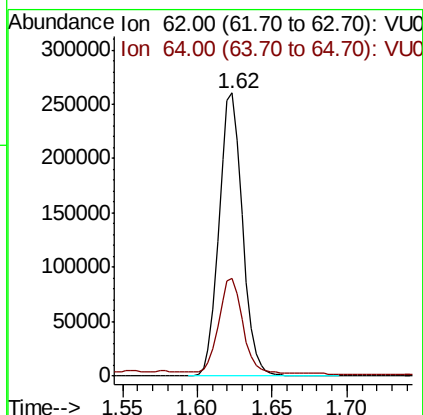
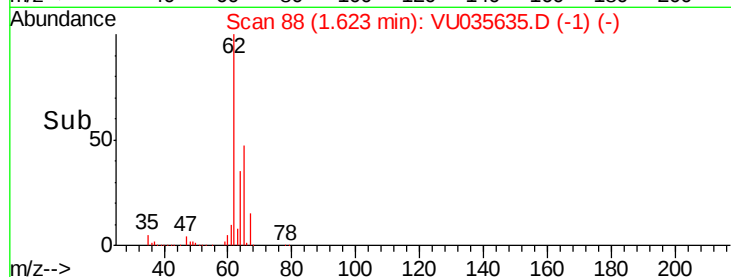
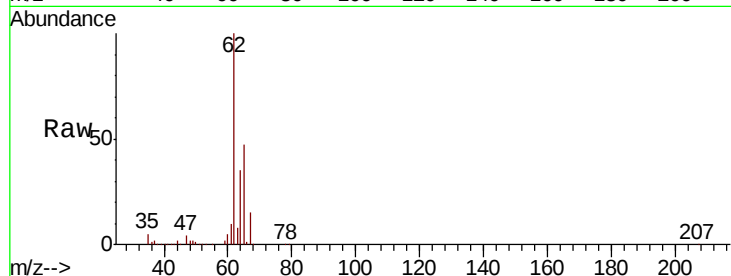
VSTD05036

Tot Ion: 62 Resp: 284411

Ion Ratio Lower Upper

62 100

64 34.7 23.7 43.9



#6

Bromomethane

Concen: 50.577 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035635.D

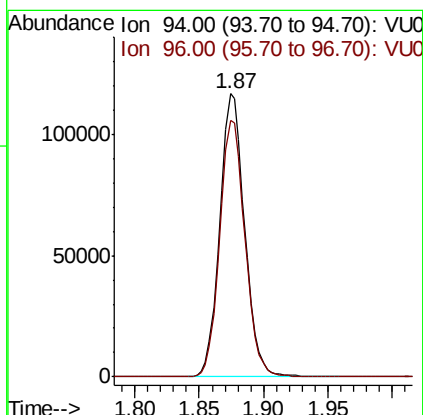
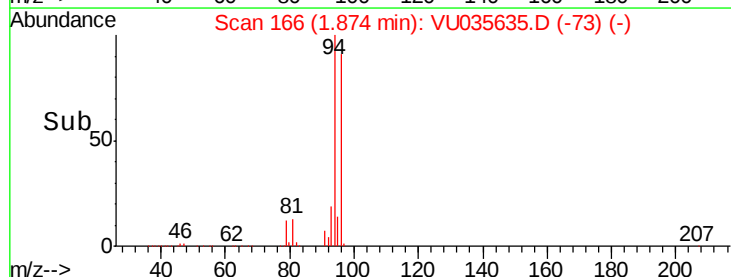
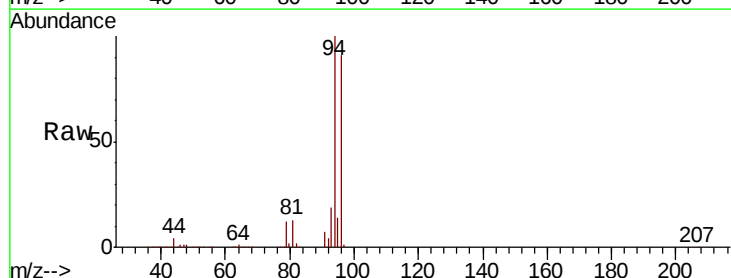
Acq: 05 Nov 2019 16:55

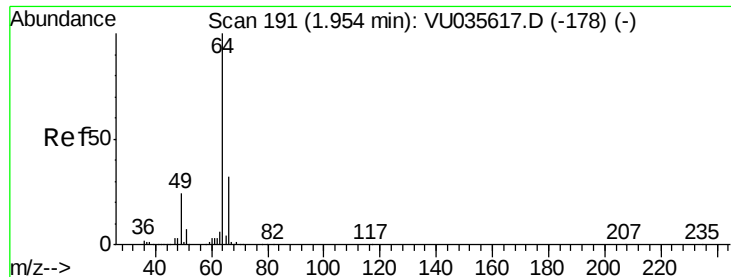
Tgt Ion: 94 Resp: 155651

Ion Ratio Lower Upper

94 100

96 90.7 67.5 125.4

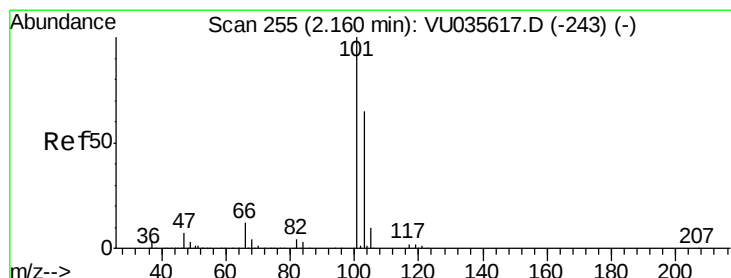
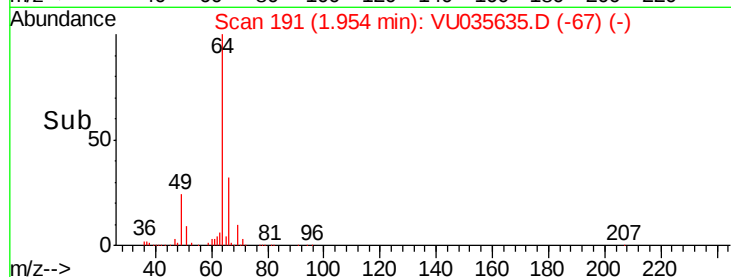
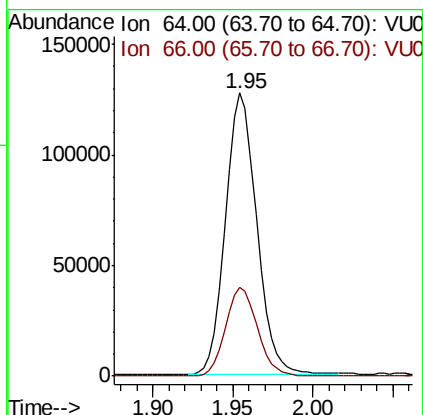
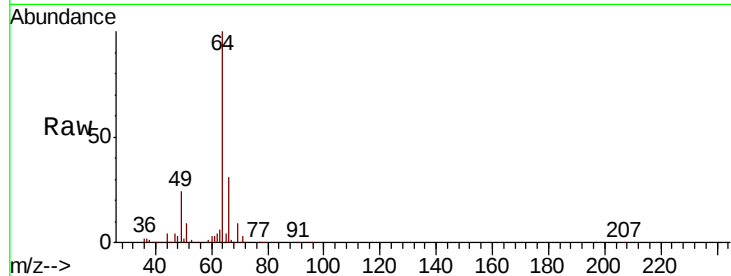




#8
Chloroethane
Concen: 47.960 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

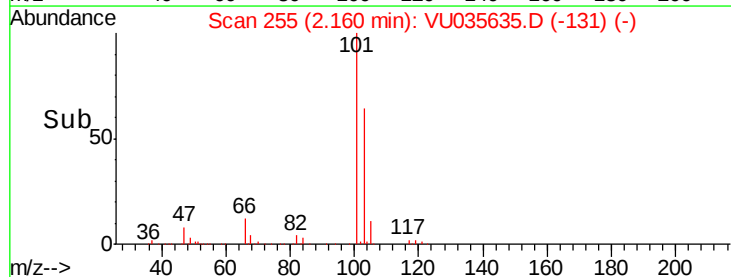
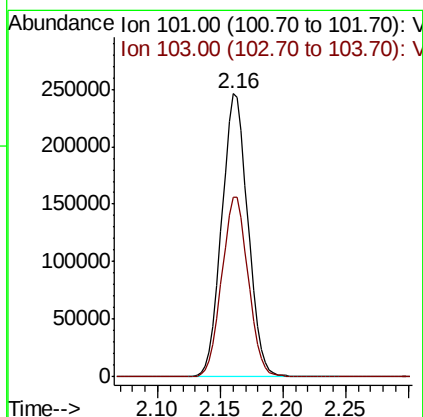
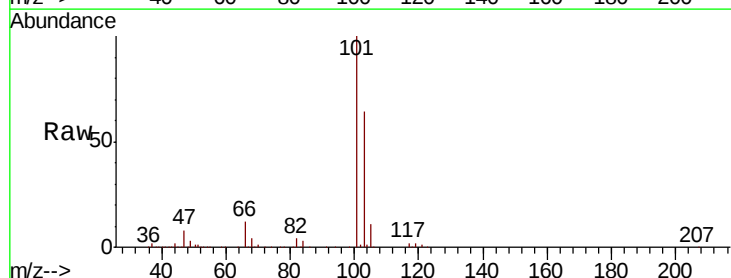
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

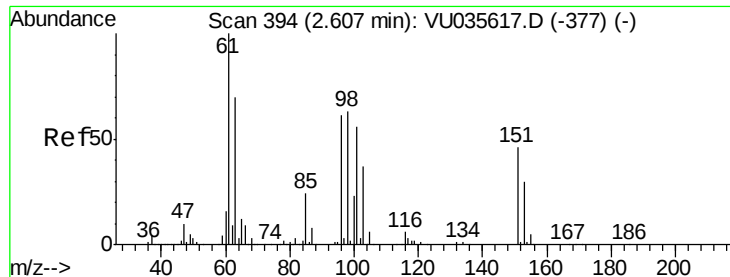
Tot Ion: 64 Resp: 169484
Ion Ratio Lower Upper
64 100
66 31.5 22.8 42.4



#9
Trichlorofluoromethane
Concen: 49.480 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

Tgt Ion: 101 Resp: 356123
Ion Ratio Lower Upper
101 100
103 64.3 51.8 77.6





#10

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

Concen: 50.383 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

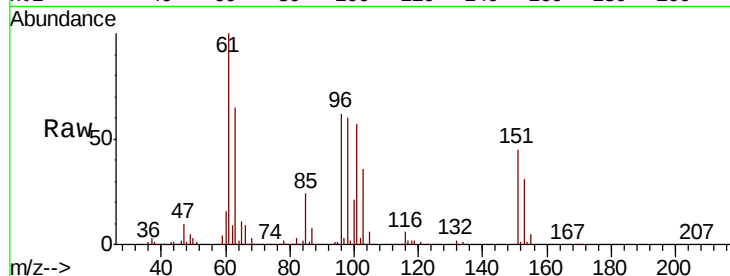
Tot Ion:101 Resp: 208179

Ion Ratio Lower Upper

101 100

85 41.8 34.0 51.0

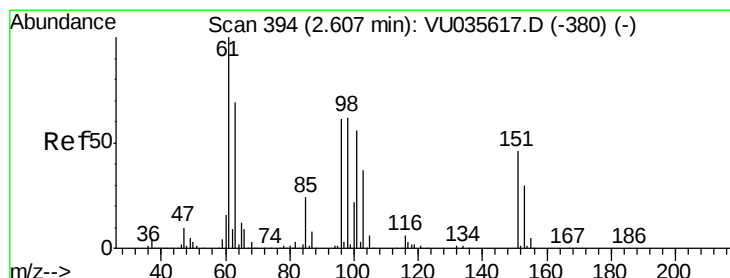
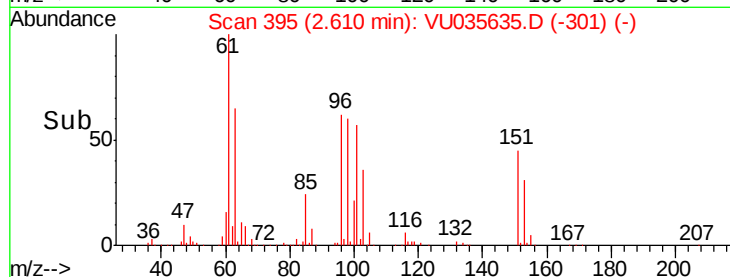
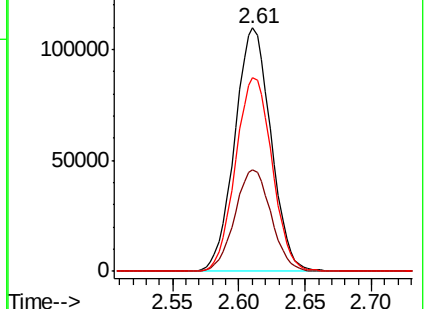
151 80.6 64.2 96.4



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: 48.436 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

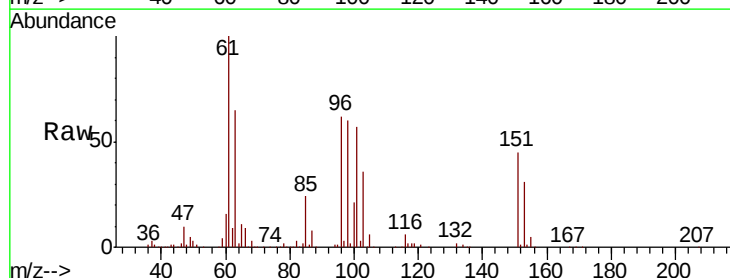
Tgt Ion: 96 Resp: 196576

Ion Ratio Lower Upper

96 100

61 160.0 113.1 210.1

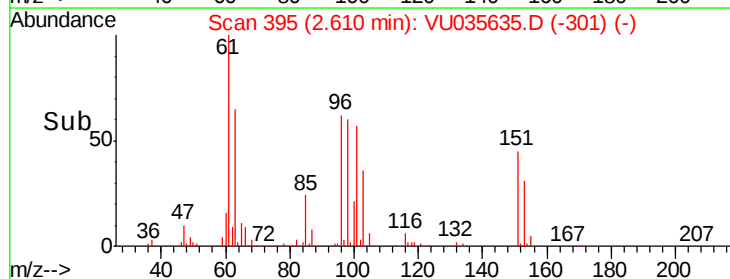
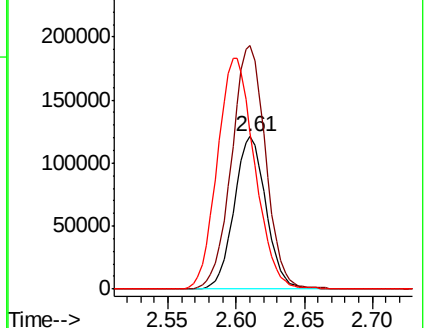
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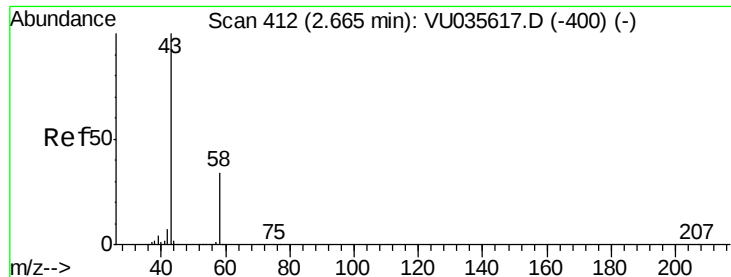


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 88.724 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

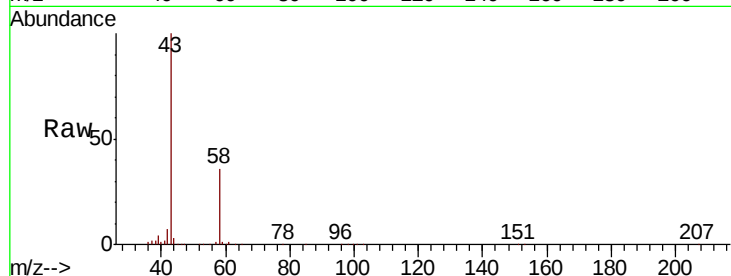
VSTD05036

Tot Ion: 43 Resp: 244681

Ion Ratio Lower Upper

43 100

58 35.7 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035617.D (-400) (-)

Ion 58.00 (57.70 to 58.70): VU035617.D (-400) (-)

2.67

150000

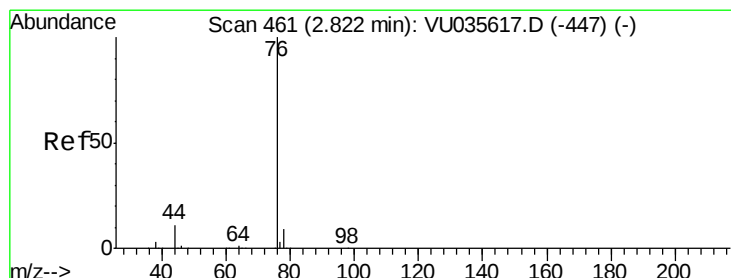
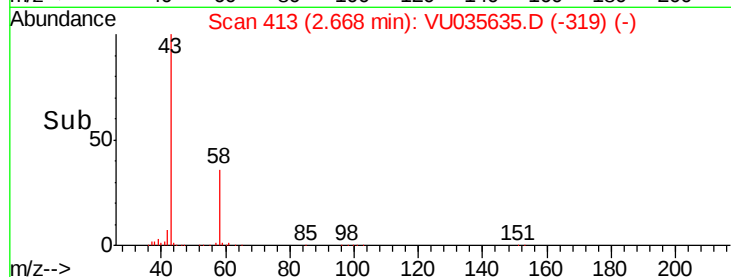
100000

50000

0

2.60 2.65 2.70 2.75

Time-->



#14

Carbon disulfide

Concen: 44.643 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035635.D

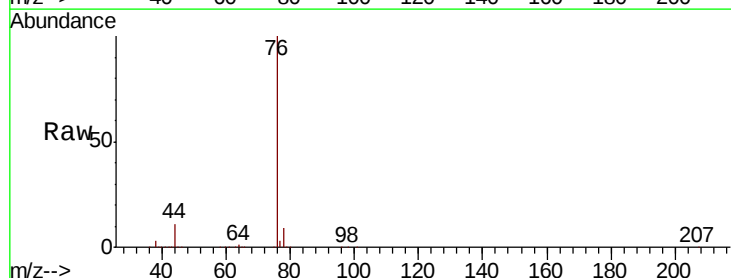
Acq: 05 Nov 2019 16:55

Tgt Ion: 76 Resp: 558203

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035617.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU035617.D (-447) (-)

2.83

300000

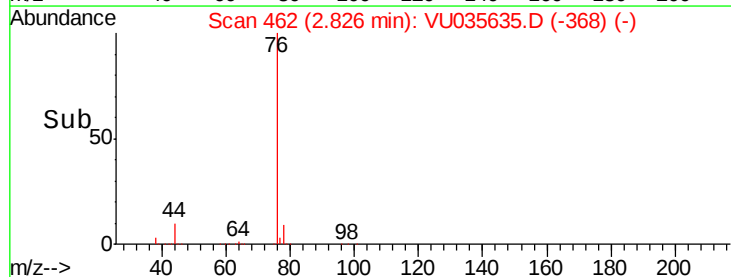
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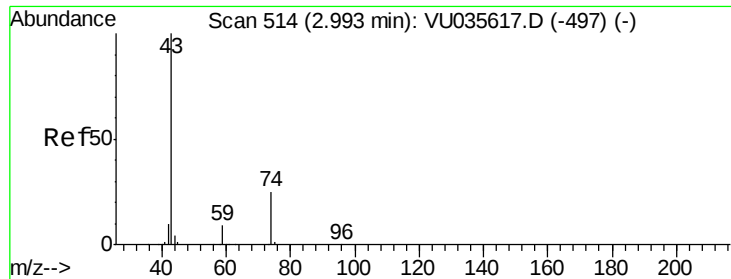
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2.75 2.80 2.85 2.90 2.95

Time-->

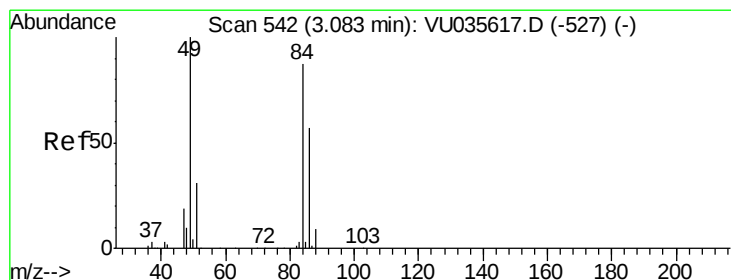
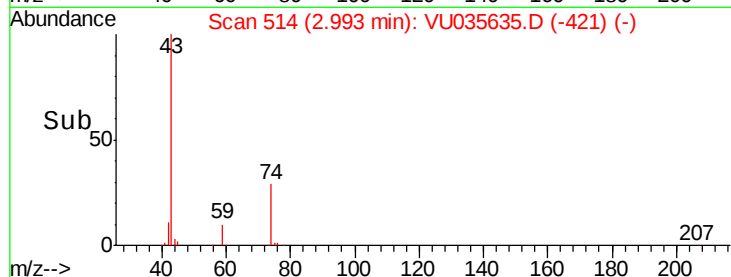
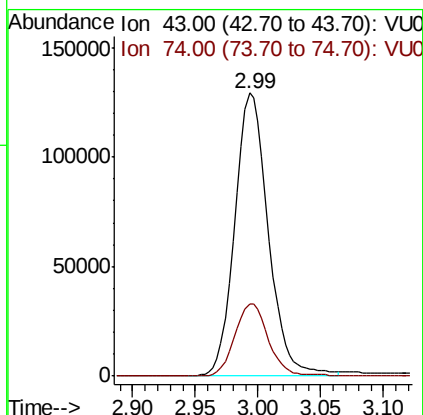
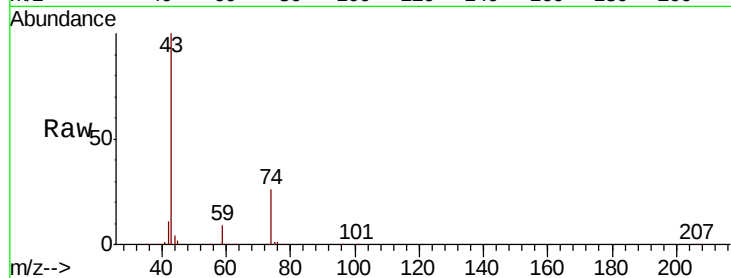




#15
Methvl Acetate
Concen: 47.726 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

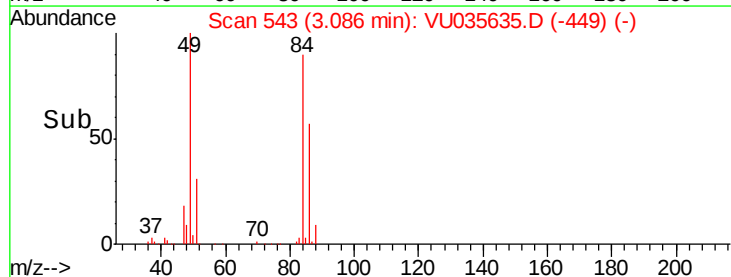
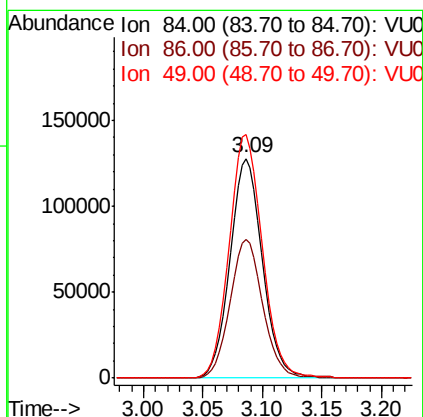
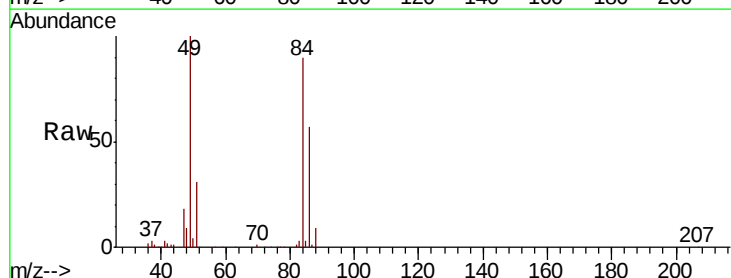
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

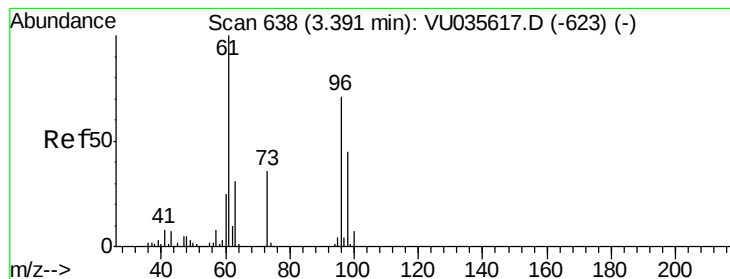
Tot Ion: 43 Resp: 238392
Ion Ratio Lower Upper
43 100
74 25.6 19.8 29.6



#16
Methylene chloride
Concen: 48.694 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

Tgt Ion: 84 Resp: 241135
Ion Ratio Lower Upper
84 100
86 63.4 45.1 83.7
49 111.0 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 48.818 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.01 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

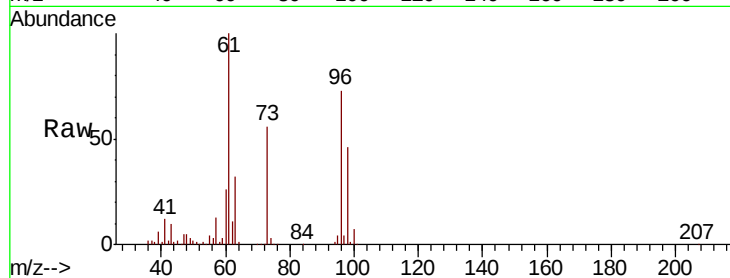
Tot Ion: 96 Resp: 208645

Ion Ratio Lower Upper

96 100

61 136.7 95.3 176.9

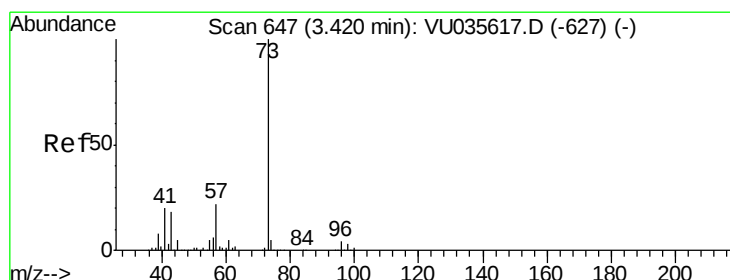
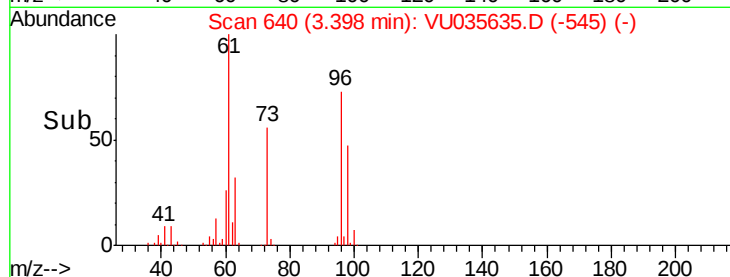
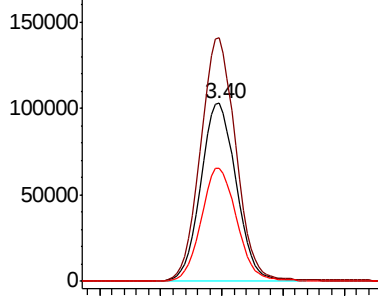
98 63.5 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035617.D (-623) (-)

Ion 61.00 (60.70 to 61.70): VU035617.D (-623) (-)

Ion 98.00 (97.70 to 98.70): VU035617.D (-623) (-)



#18

Methyl tert-butyl Ether

Concen: 50.377 ug/L

RT: 3.42 min Scan# 648

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

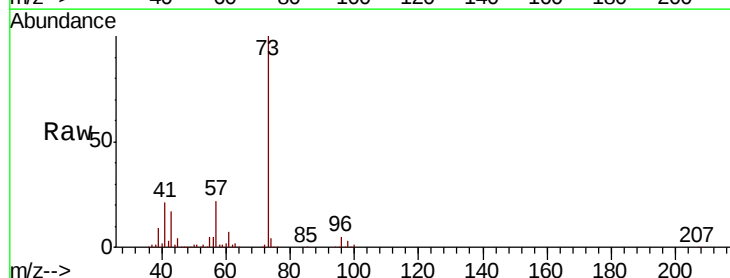
Tgt Ion: 73 Resp: 650954

Ion Ratio Lower Upper

73 100

43 17.1 14.2 21.2

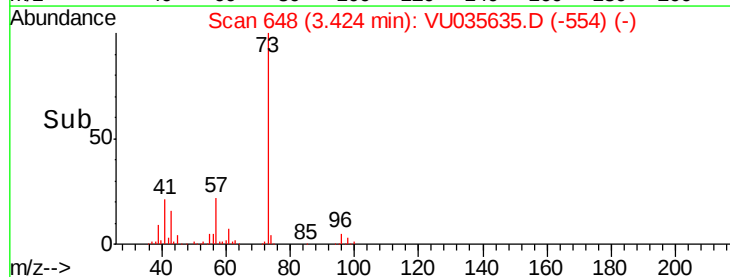
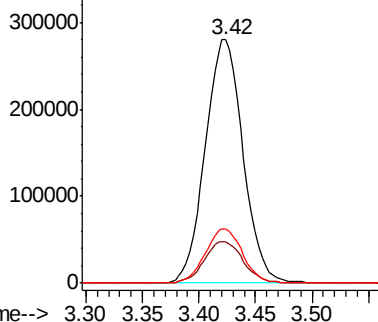
57 22.1 18.3 27.5

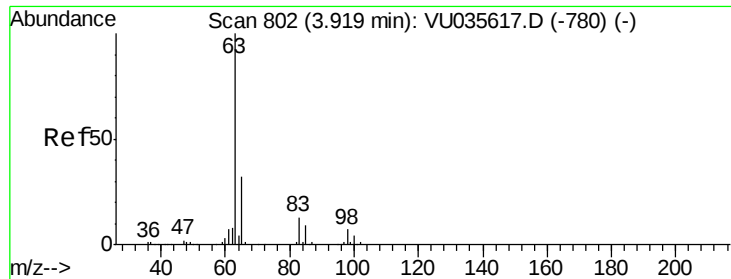


Abundance Ion 73.00 (72.70 to 73.70): VU035617.D (-627) (-)

Ion 43.00 (42.70 to 43.70): VU035617.D (-627) (-)

Ion 57.00 (56.70 to 57.70): VU035617.D (-627) (-)

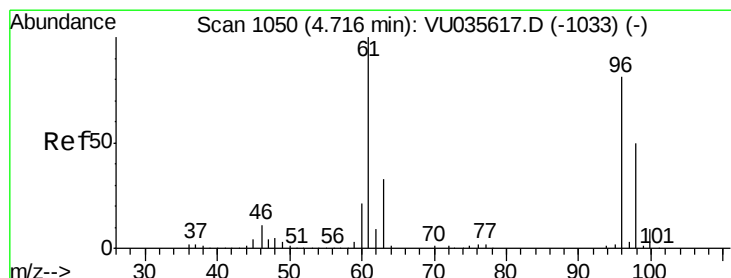
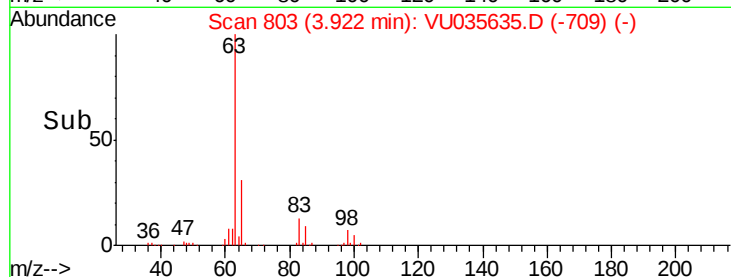
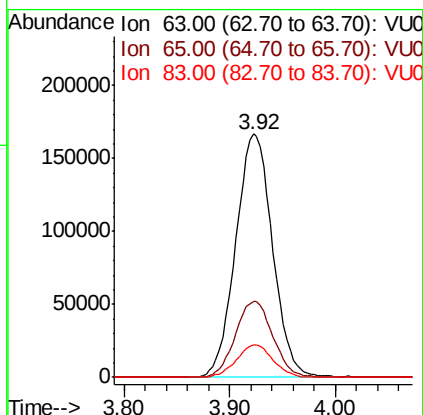
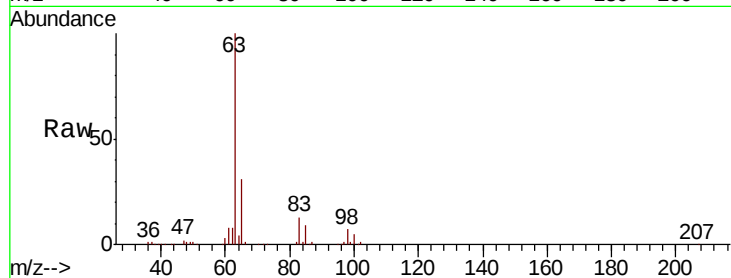




#19
 1,1-Dichloroethane
 Concen: 48.995 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

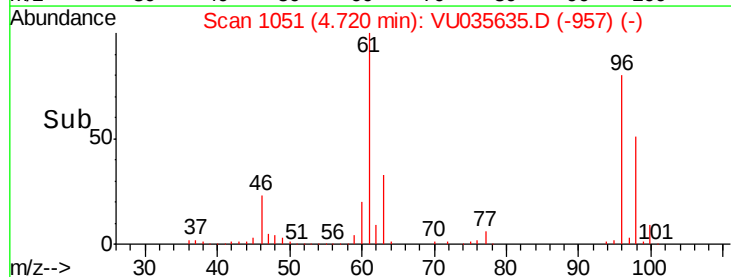
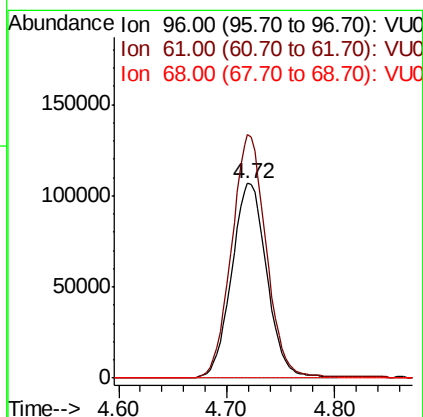
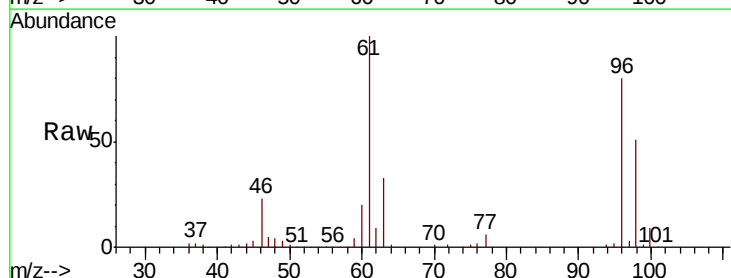
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

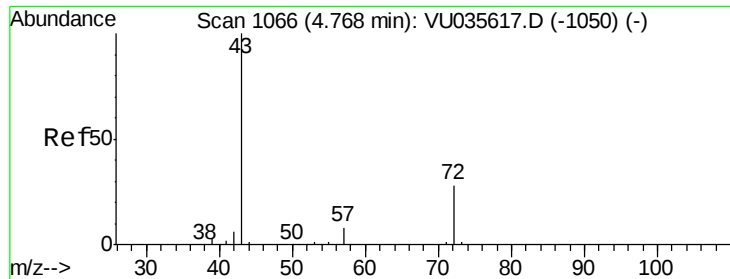
Tot Ion: 63 Resp: 403934
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.1 41.1
 83 13.3 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 50.400 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion: 96 Resp: 242961
 Ion Ratio Lower Upper
 96 100
 61 124.9 90.6 168.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 96.506 ug/L

RT: 4.77 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

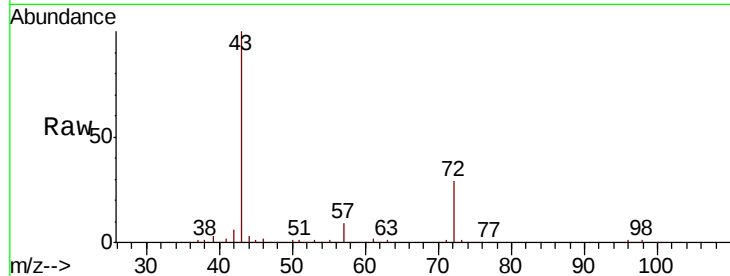
VSTD05036

Tot Ion: 43 Resp: 351326

Ion Ratio Lower Upper

43 100

72 27.8 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035617.D (-1050) (-)

Ion 72.00 (71.70 to 72.70): VU035617.D (-1050) (-)

4.77

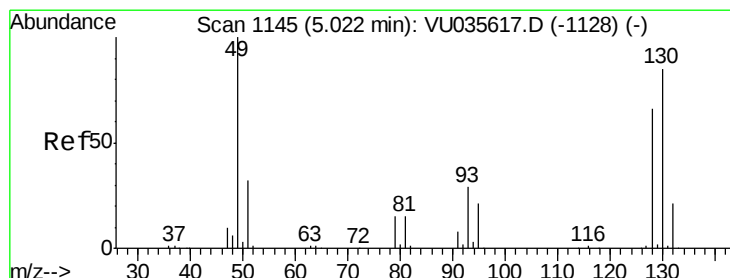
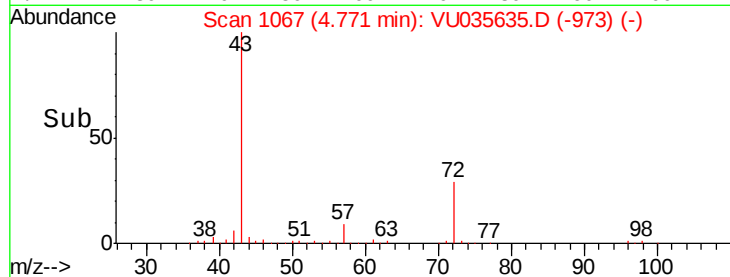
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 51.101 ug/L

RT: 5.03 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Tgt Ion: 128 Resp: 130173

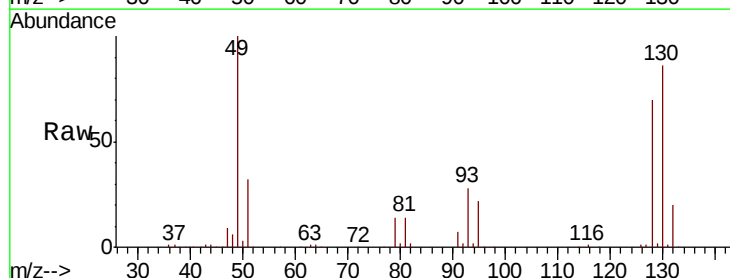
Ion Ratio Lower Upper

128 100

49 143.3 106.4 197.6

130 122.9 88.1 163.5

51 46.1 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU035617.D (-1128) (-)

Ion 49.00 (48.70 to 49.70): VU035617.D (-1128) (-)

Ion 130.00 (129.70 to 130.70): VU035617.D (-1128) (-)

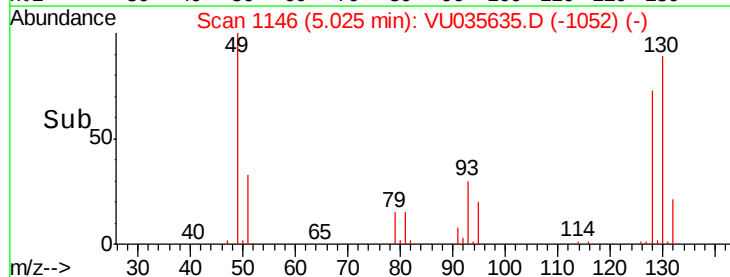
Ion 51.00 (50.70 to 51.70): VU035617.D (-1128) (-)

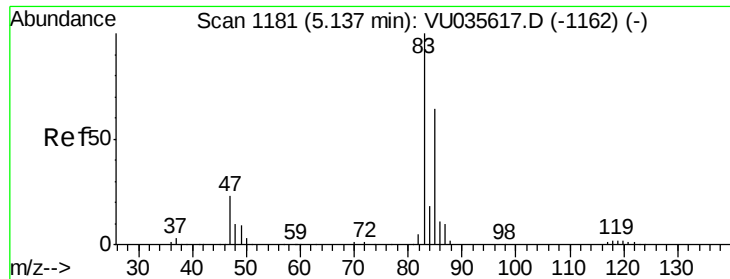
100000

50000

0

Time-->

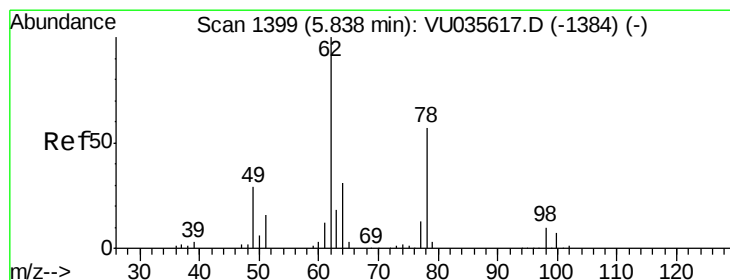
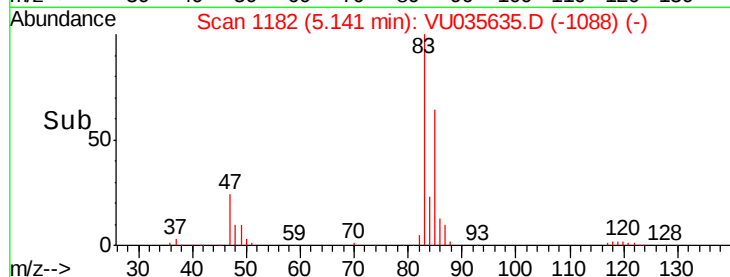
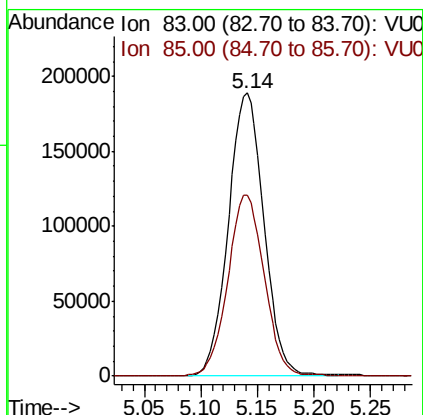
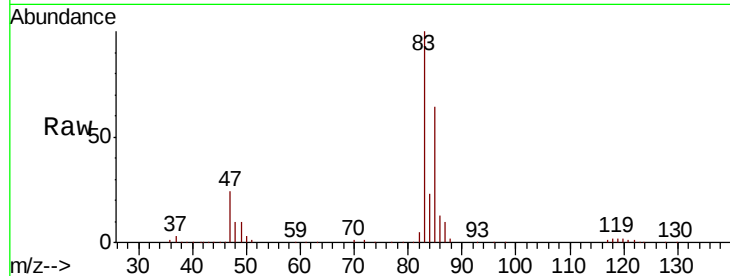




#25
Chloroform
Concen: 49.466 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

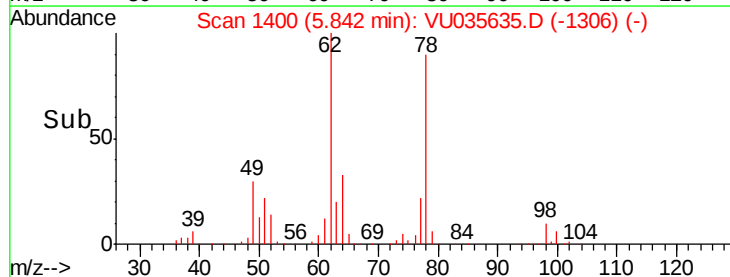
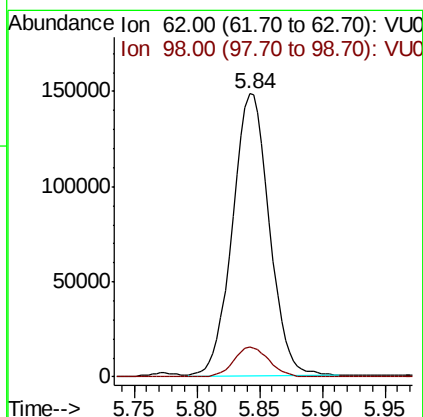
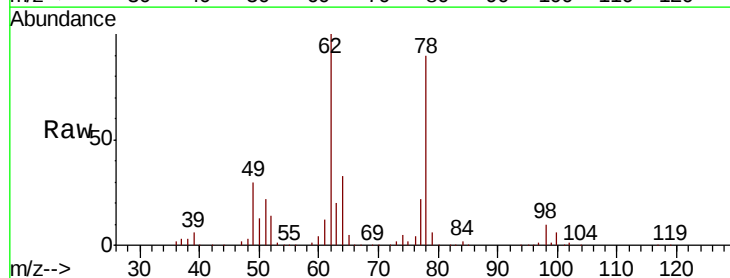
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

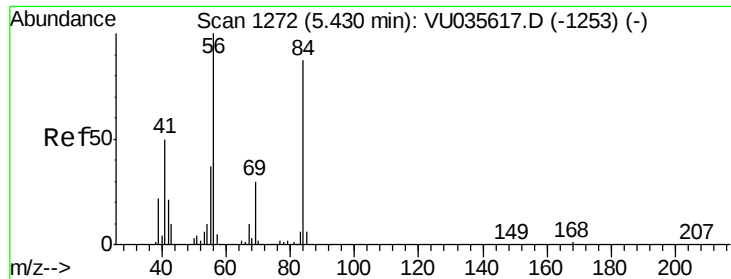
Tot Ion: 83 Resp: 414185
Ion Ratio Lower Upper
83 100
85 63.9 45.4 84.4



#27
1,2-Dichloroethane
Concen: 49.441 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

Tgt Ion: 62 Resp: 302443
Ion Ratio Lower Upper
62 100
98 10.5 8.2 12.2

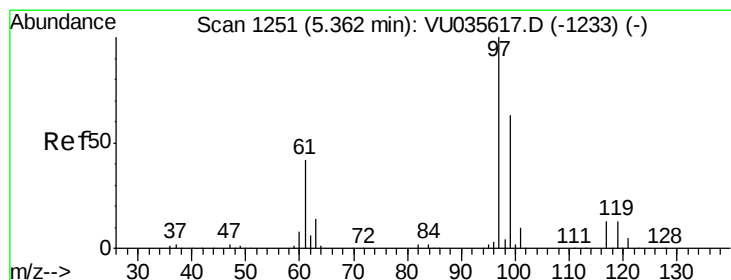
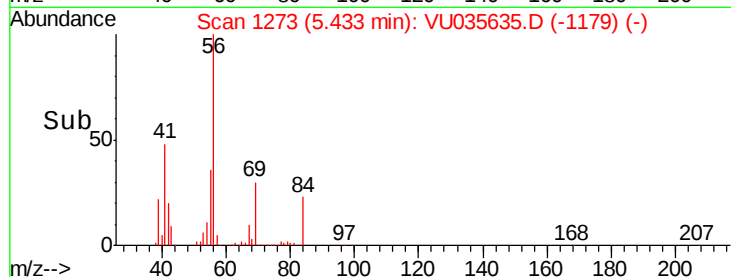
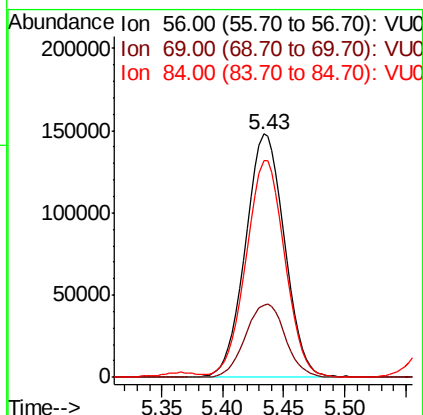
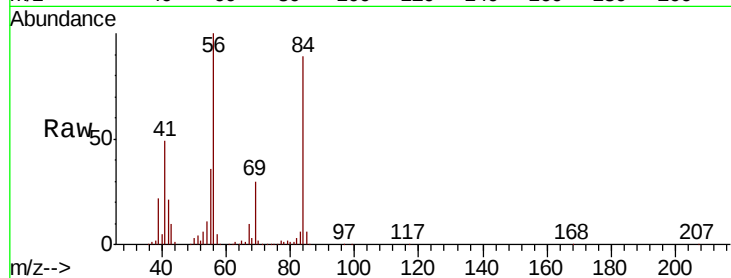




#29
Cyclohexane
Concen: 49.158 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

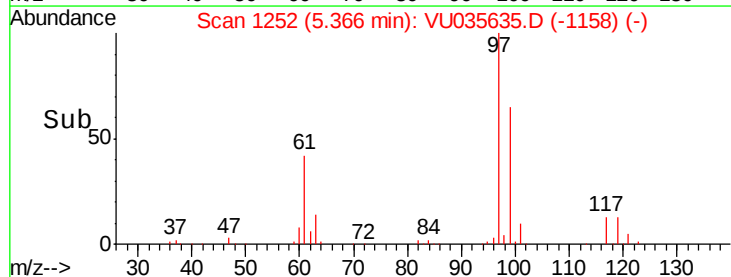
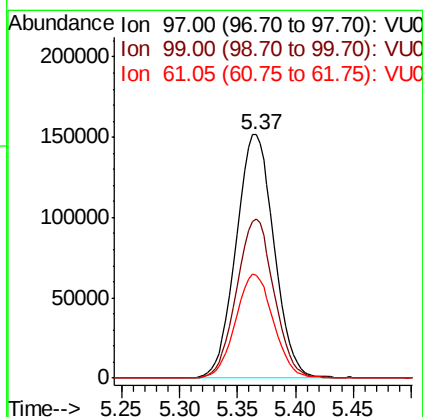
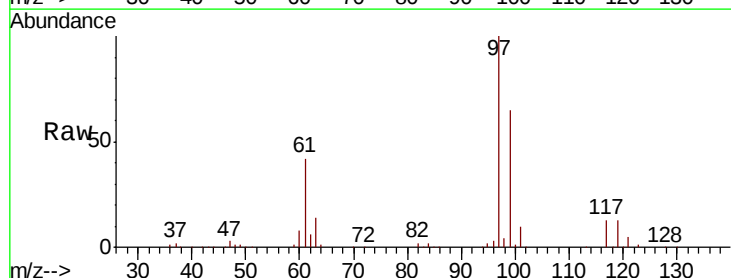
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

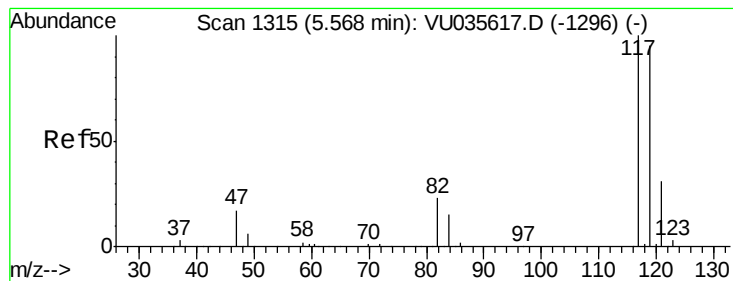
Tot Ion: 56 Resp: 327819
Ion Ratio Lower Upper
56 100
69 30.7 24.4 36.6
84 87.7 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 50.298 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

Tgt Ion: 97 Resp: 345635
Ion Ratio Lower Upper
97 100
99 64.7 51.5 77.3
61 42.2 35.1 52.7





#31

Carbon tetrachloride

Concen: 50.309 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

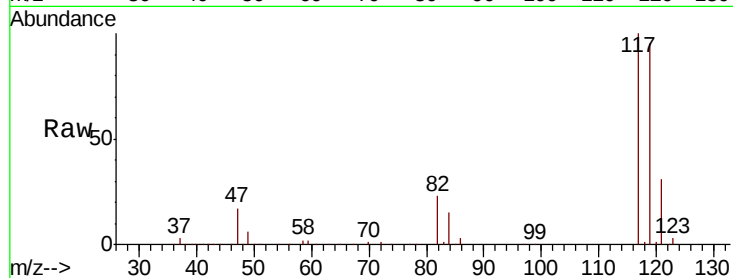
VSTD05036

Tot Ion:117 Resp: 307397

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

150000

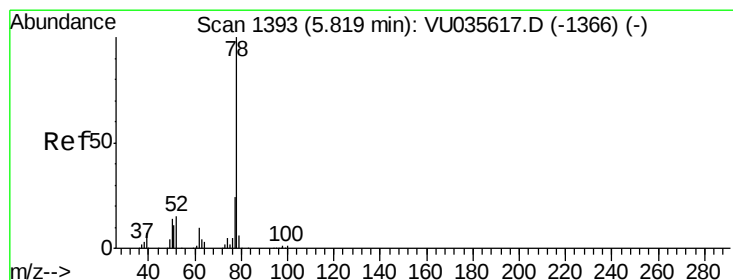
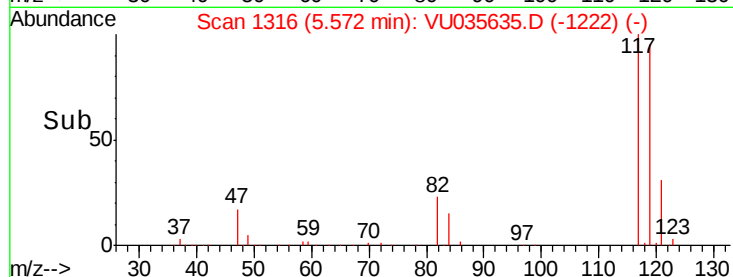
100000

50000

0

5.50 5.55 5.60 5.65

Time-->



#33

Benzene

Concen: 49.991 ug/L

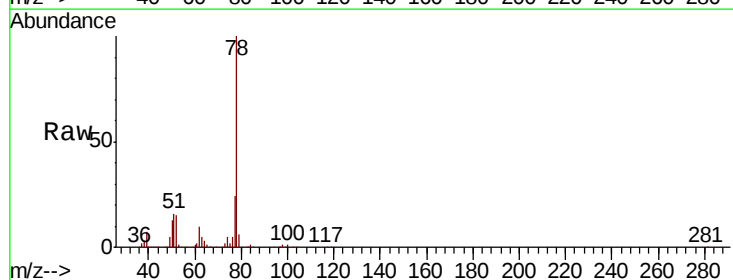
RT: 5.82 min Scan# 1394

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Tgt Ion: 78 Resp: 918561



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

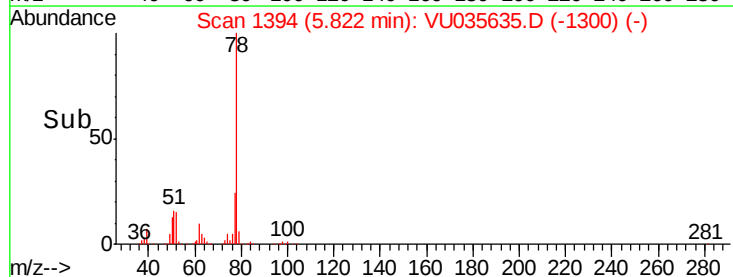
200000

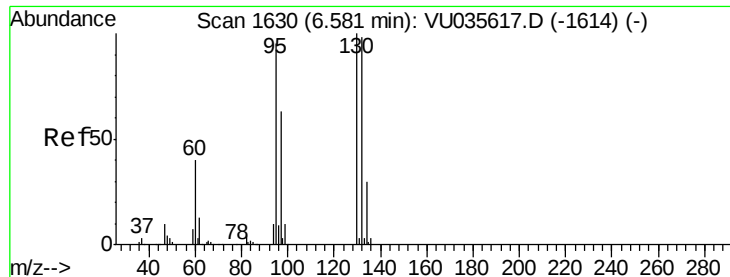
100000

0

5.70 5.80 5.90

Time-->





#34

Trichloroethene

Concen: 48.362 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

Tot Ion: 95 Resp: 225914

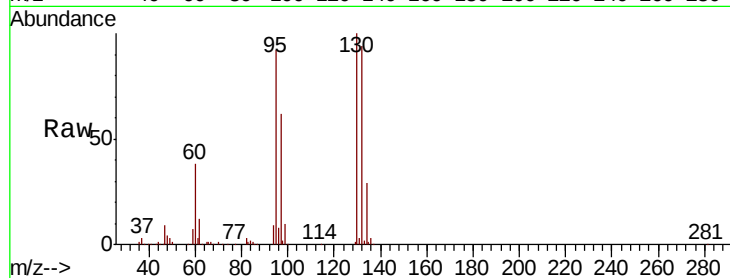
Ion Ratio Lower Upper

95 100

97 67.3 45.6 84.6

132 102.0 69.9 129.7

130 108.2 73.1 135.7

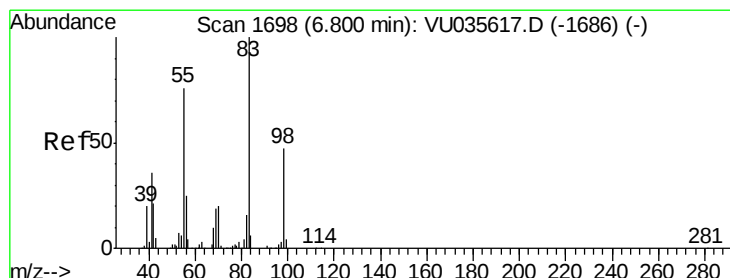
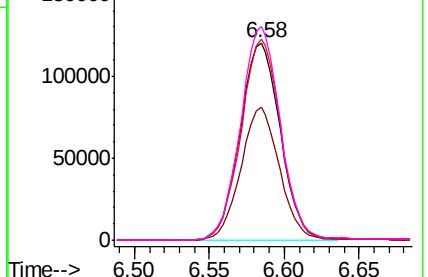
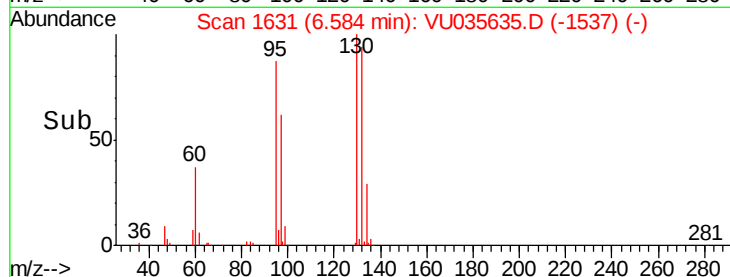


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 50.583 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

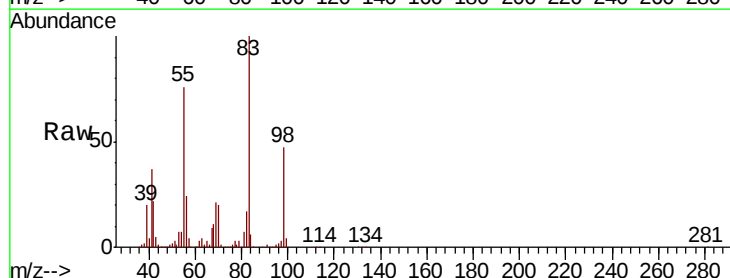
Tgt Ion: 83 Resp: 343170

Ion Ratio Lower Upper

83 100

55 74.8 61.0 91.4

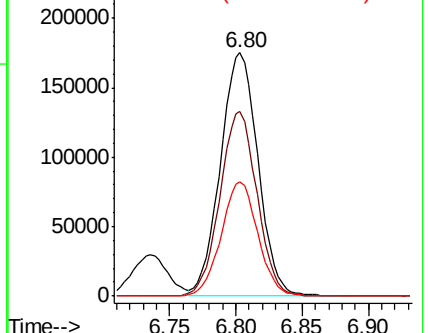
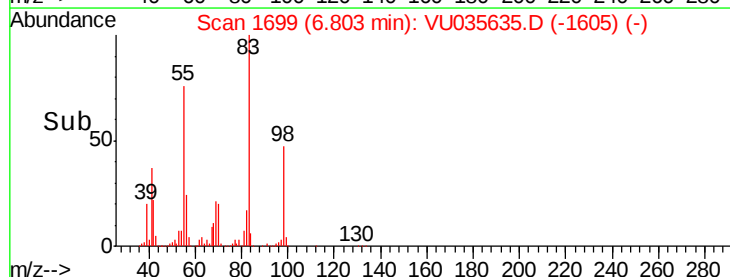
98 46.1 36.6 54.8

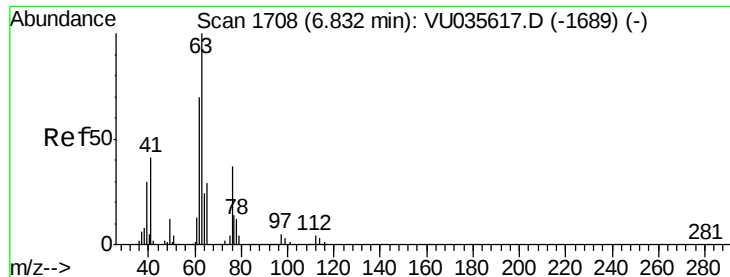


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

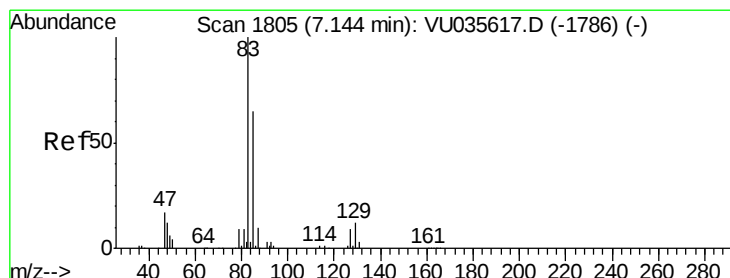
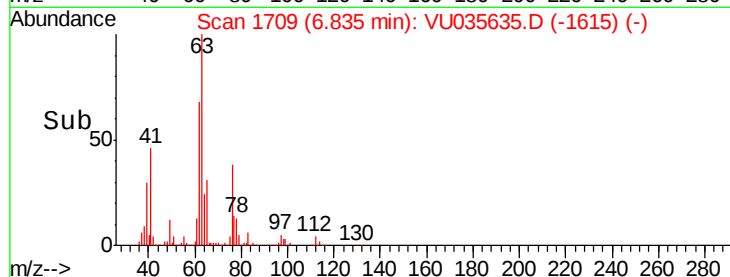
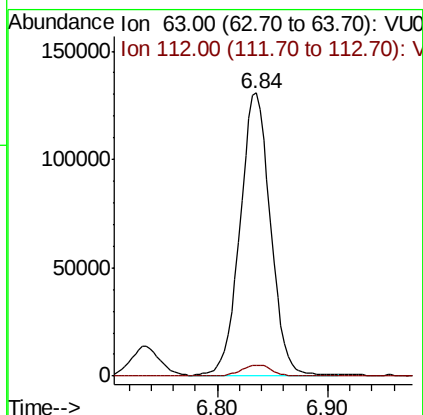
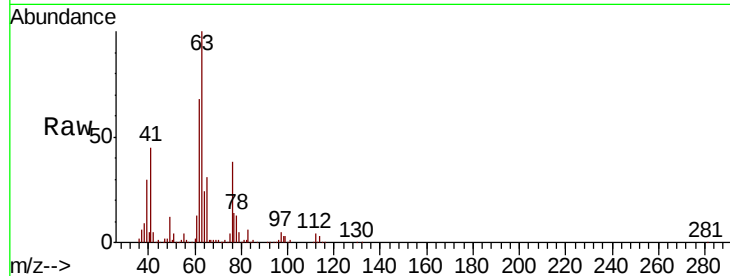




#37
 1,2-Dichloropropane
 Concen: 50.464 ug/L
 RT: 6.84 min Scan# 1709
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

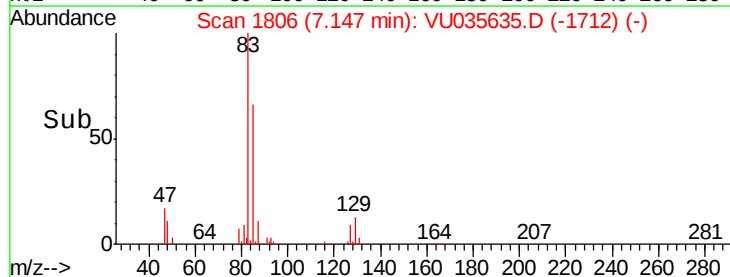
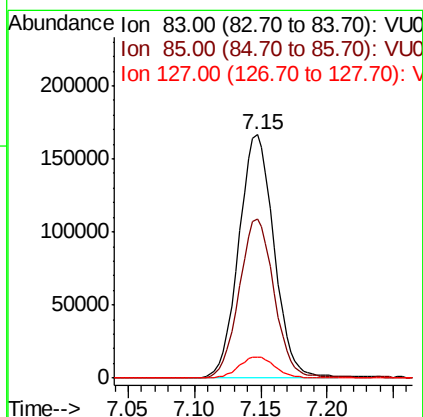
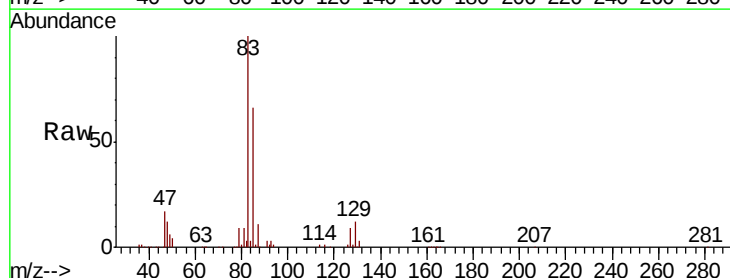
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05036

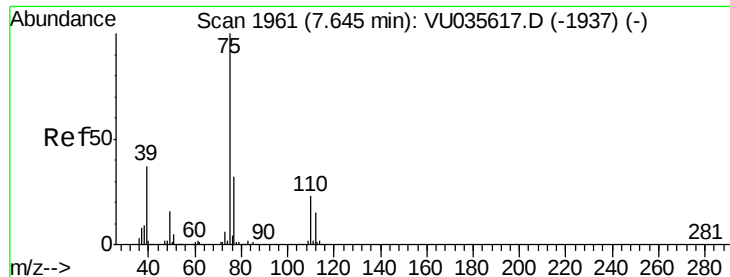
Tot Ion: 63 Resp: 248309
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 49.098 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion: 83 Resp: 307078
 Ion Ratio Lower Upper
 83 100
 85 65.5 45.1 83.7
 127 8.7 7.2 10.8

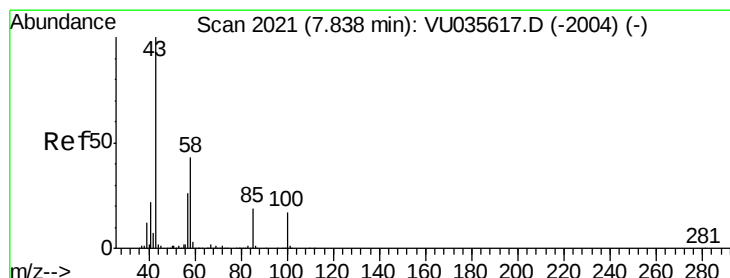
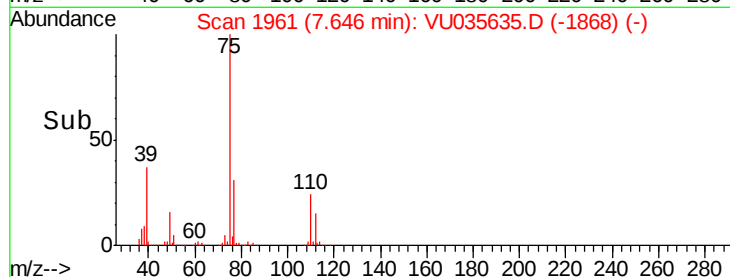
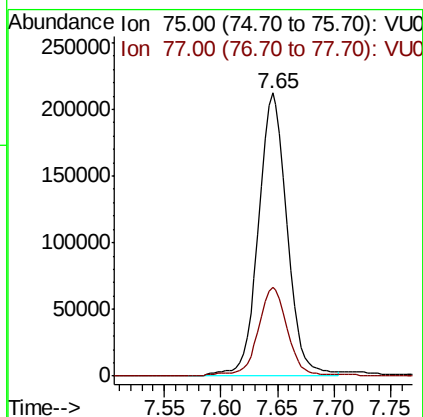
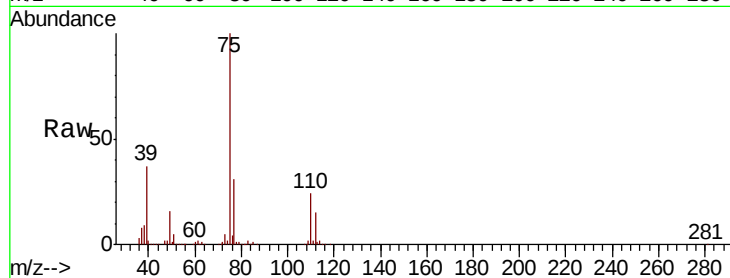




#39
 cis-1,3-Dichloropropene
 Concen: 51.295 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

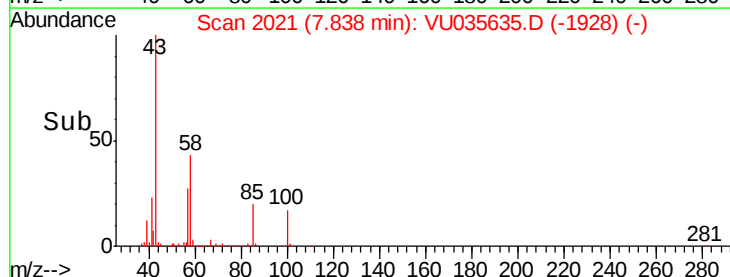
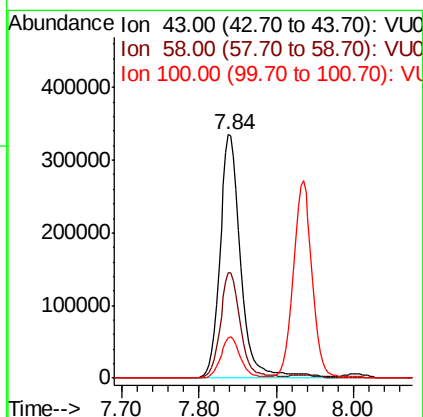
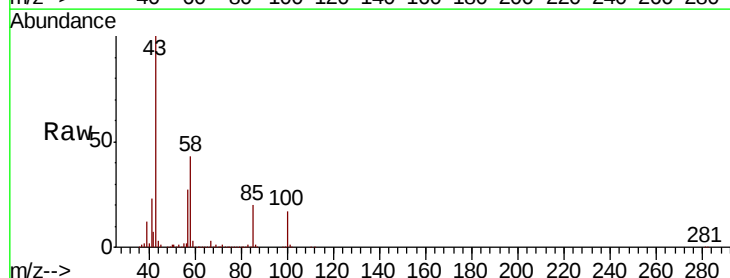
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

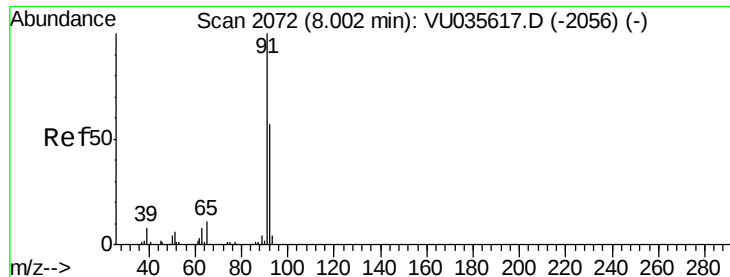
Tot Ion: 75 Resp: 375163
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 95.850 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion: 43 Resp: 630962
 Ion Ratio Lower Upper
 43 100
 58 42.0 32.6 49.0
 100 16.1 12.6 19.0





#42

Toluene

Concen: 52.148 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

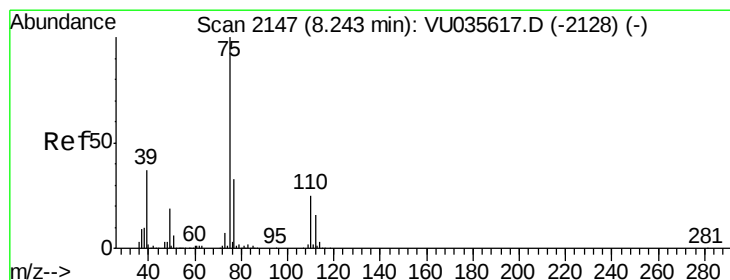
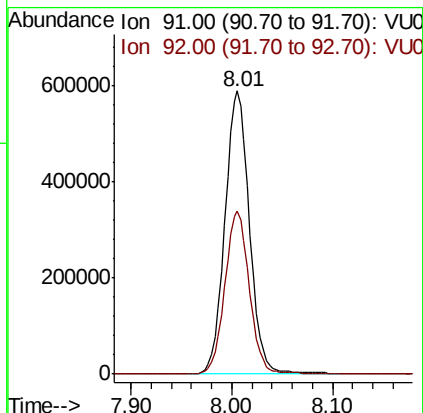
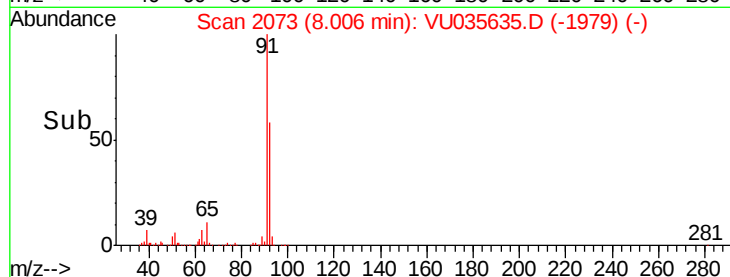
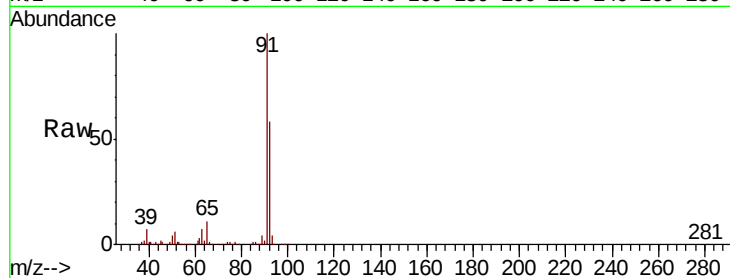
VSTD05036

Tot Ion: 91 Resp: 1004260

Ion Ratio Lower Upper

91 100

92 57.6 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 50.394 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035635.D

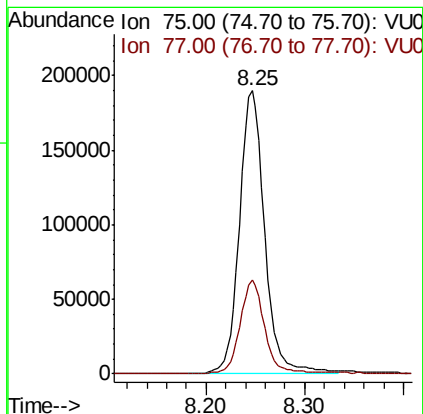
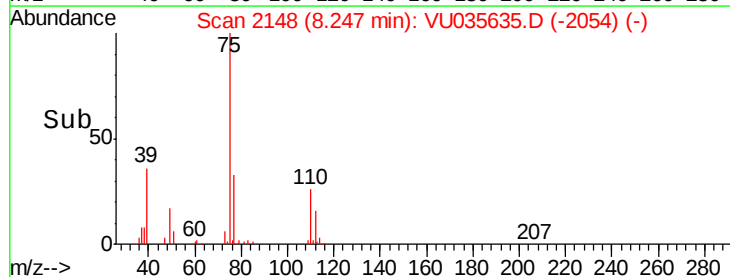
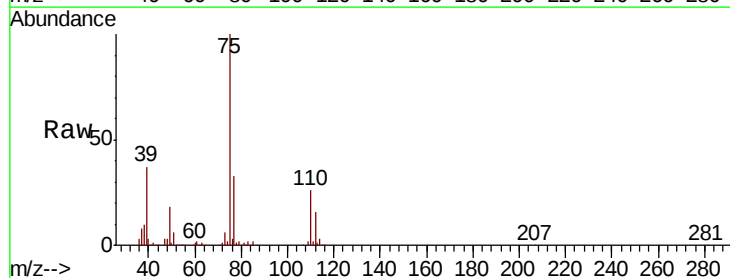
Acq: 05 Nov 2019 16:55

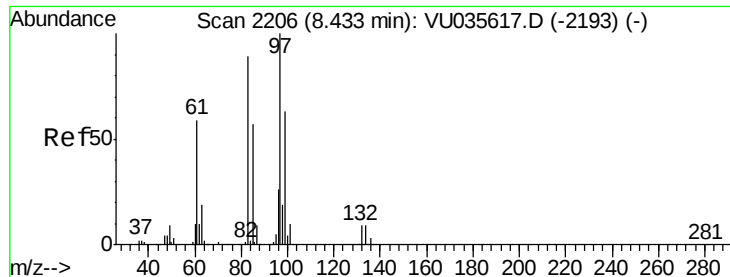
Tgt Ion: 75 Resp: 337852

Ion Ratio Lower Upper

75 100

77 33.0 22.1 41.1

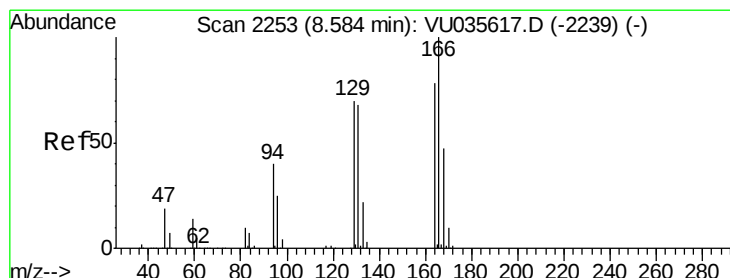
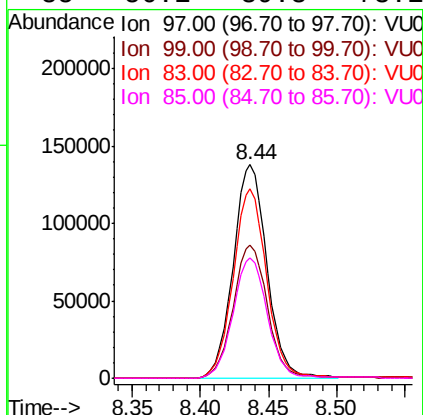
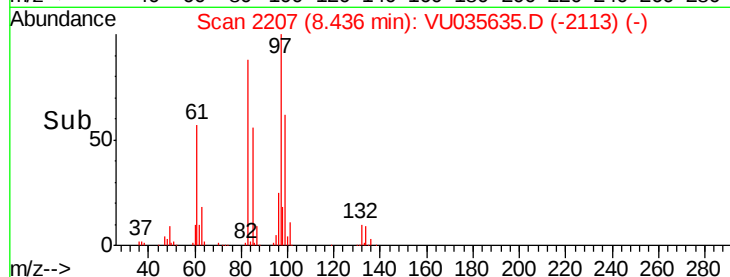
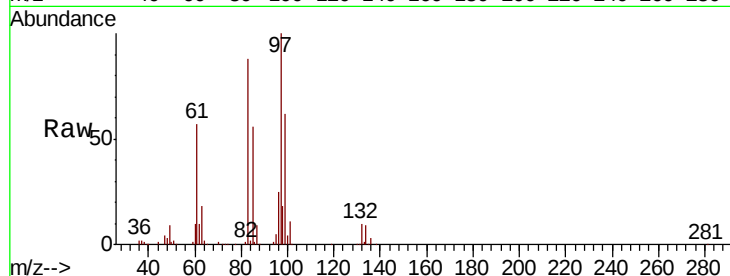




#45
 1,1,2-Trichloroethane
 Concen: 50.320 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

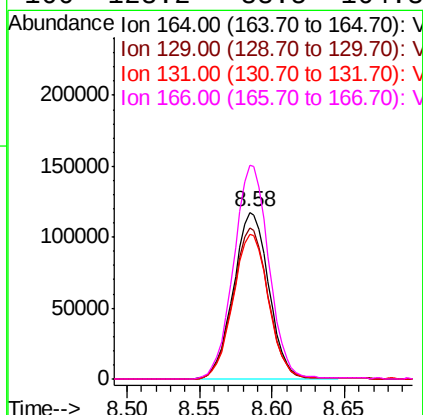
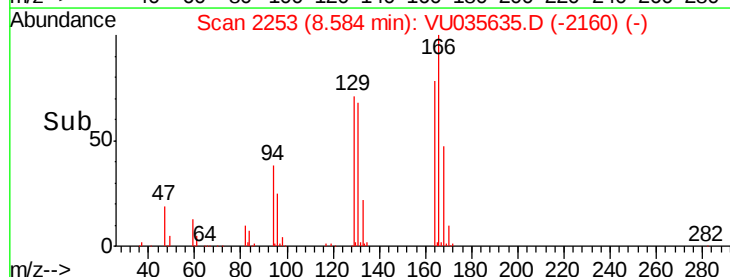
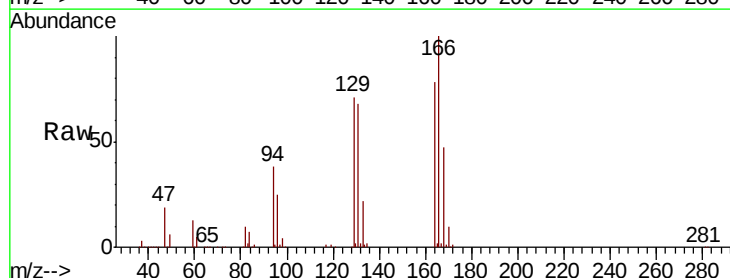
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

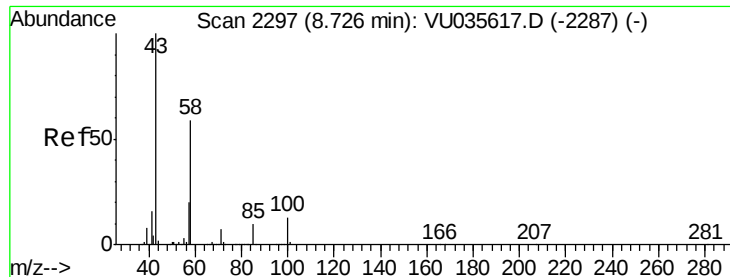
Tot Ion:	97	Resp:	237325
Ion	Ratio	Lower	Upper
97	100		
99	62.2	44.2	82.2
83	88.5	61.5	114.3
85	56.1	39.3	73.1



#46
 Tetrachloroethene
 Concen: 51.093 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion:	164	Resp:	199567
Ion	Ratio	Lower	Upper
164	100		
129	90.9	64.1	119.1
131	86.8	63.1	117.1
166	128.2	88.5	164.3

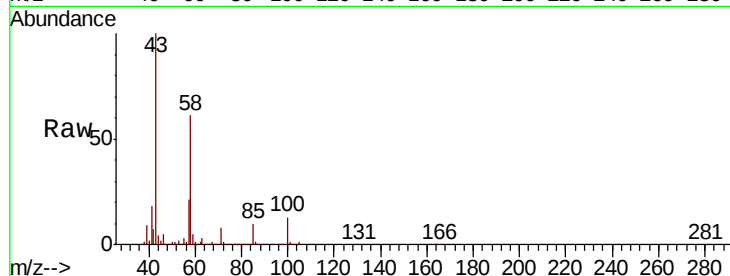




#48
2-Hexanone
Concen: 91.388 ug/L
RT: 8.73 min Scan# 2298
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.8	50.4	75.6
57	18.4	17.4	26.0
100	12.3	10.5	15.7

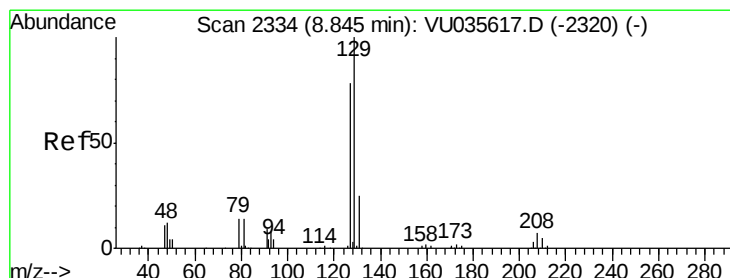
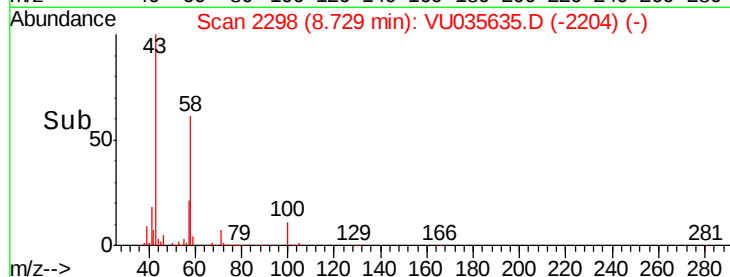
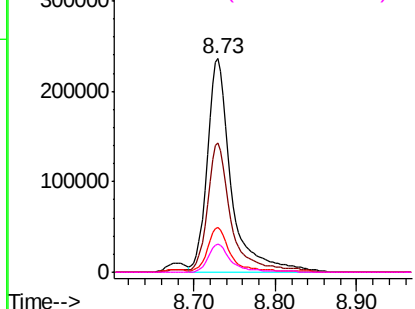


Abundance Ion 43.00 (42.70 to 43.70): VU035617.D (-2287) (-)

Ion 58.00 (57.70 to 58.70): VU035617.D (-2287) (-)

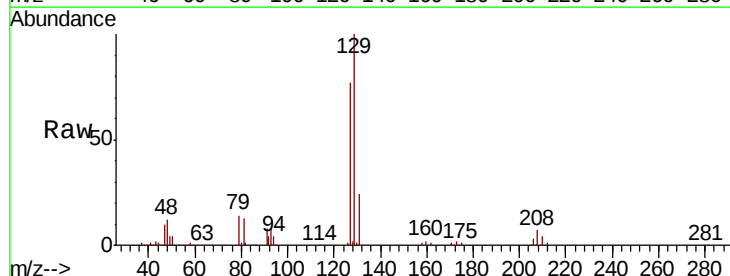
Ion 57.00 (56.70 to 57.70): VU035617.D (-2287) (-)

Ion 100.00 (99.70 to 100.70): VU035617.D (-2287) (-)



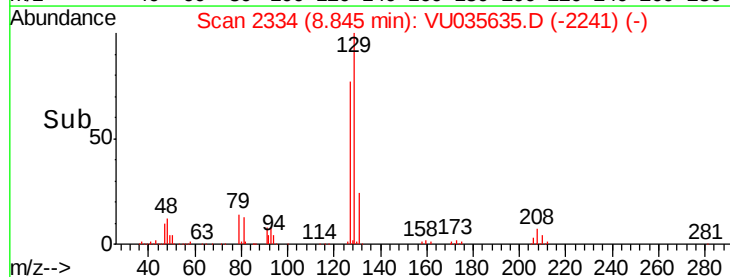
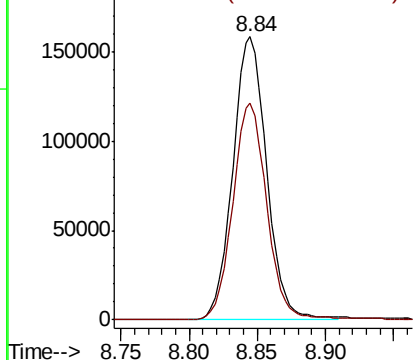
#49
Dibromochloromethane
Concen: 51.398 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

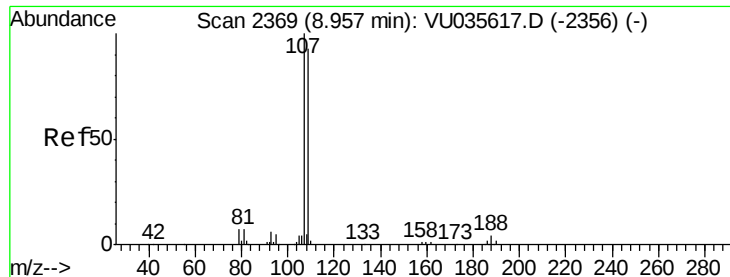
Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	54.9	101.9



Abundance Ion 129.00 (128.70 to 129.70): VU035617.D (-2320) (-)

Ion 127.00 (126.70 to 127.70): VU035617.D (-2320) (-)

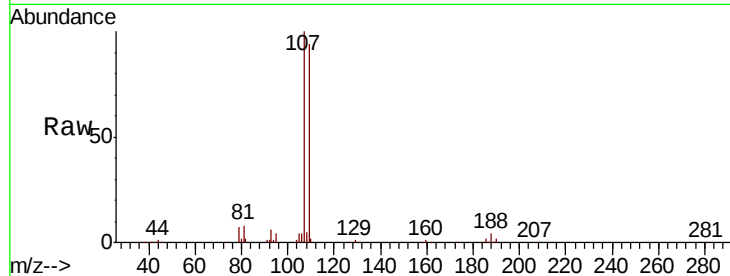




#50
 1,2-Dibromoethane
 Concen: 51.120 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.8	124.2
188	4.3	3.2	4.8

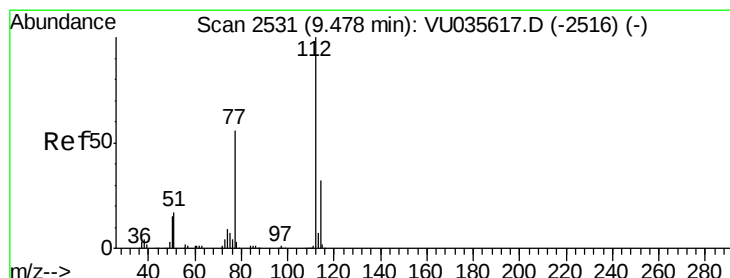
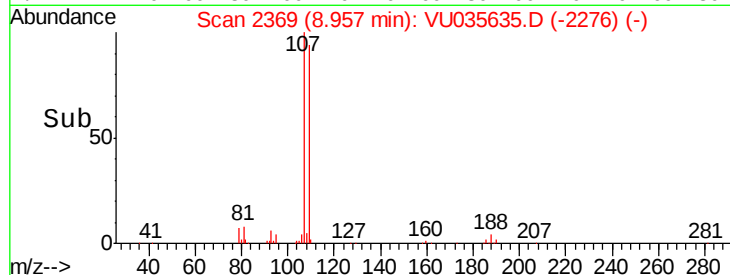
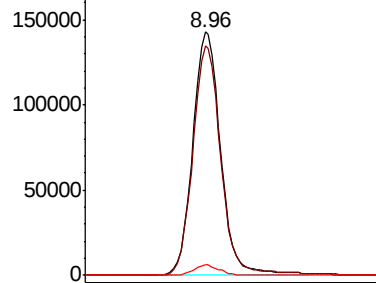


Abundance

Ion 107.00 (106.70 to 107.70): V

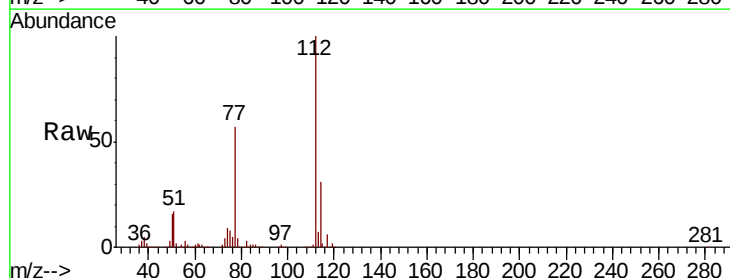
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 50.889 ug/L
 RT: 9.48 min Scan# 2531
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.7	42.3
77	56.8	45.9	68.9

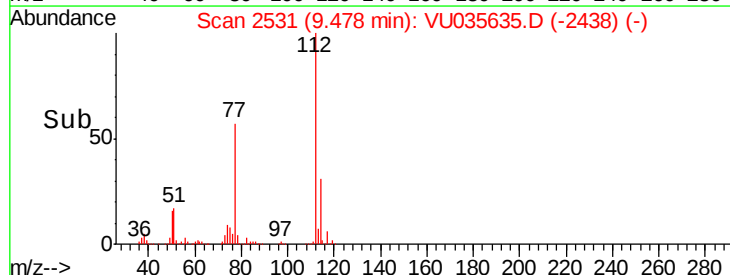
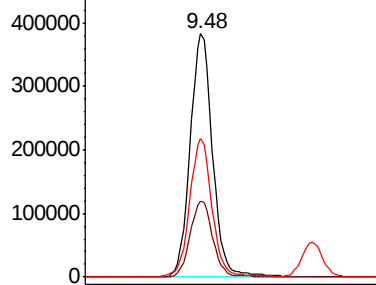


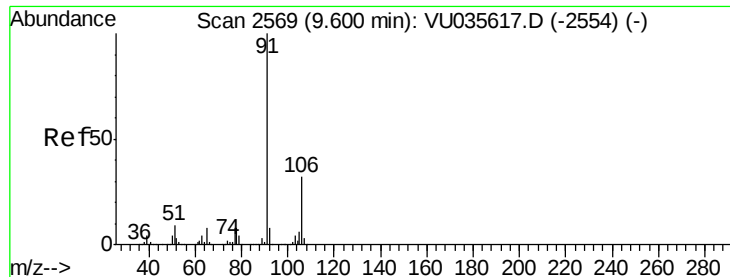
Abundance

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): VU





#52

Ethylbenzene

Concen: 51.058 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

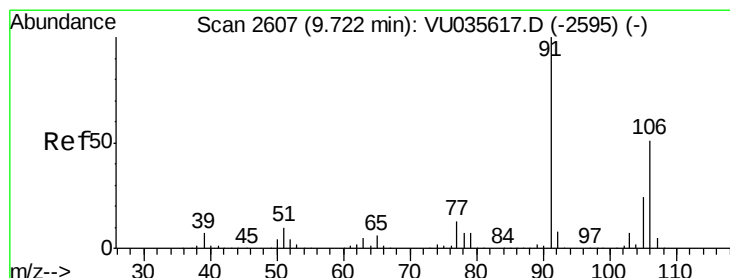
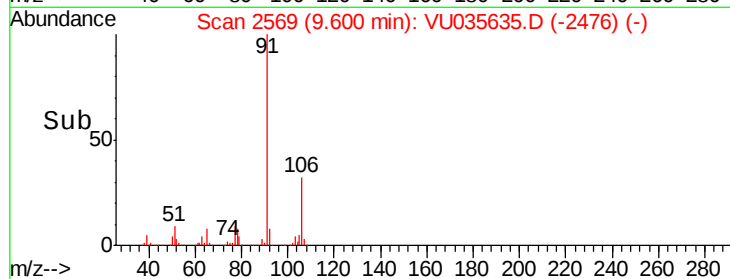
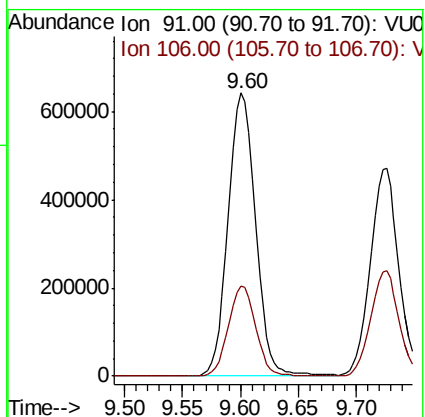
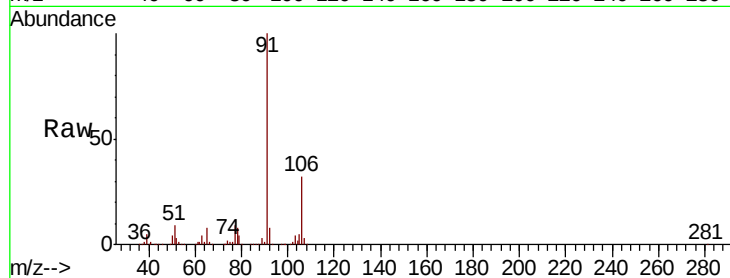
VSTD05036

Tot Ion: 91 Resp: 1051178

Ion Ratio Lower Upper

91 100

106 31.9 21.6 40.0



#53

m,p-Xylene

Concen: 53.563 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035635.D

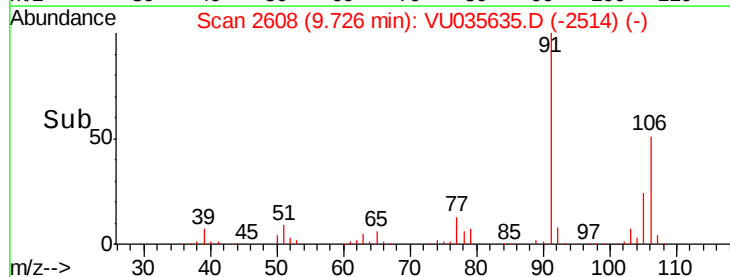
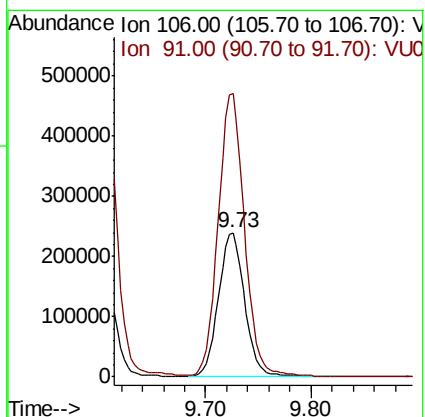
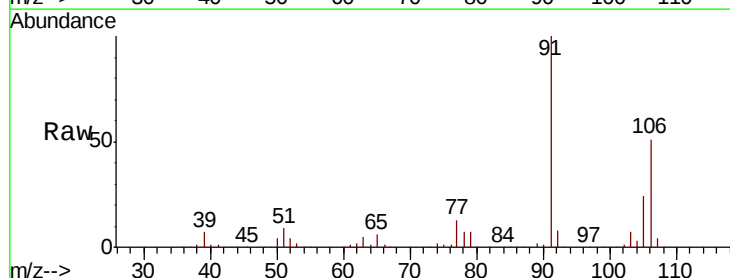
Acq: 05 Nov 2019 16:55

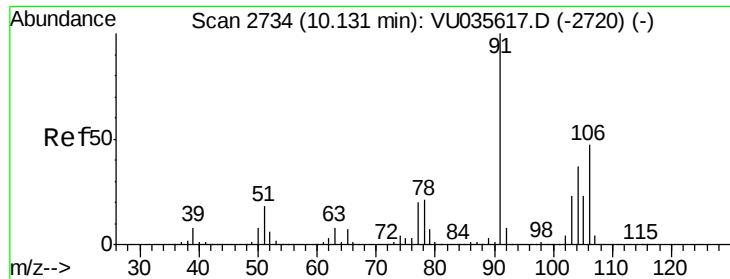
Tgt Ion: 106 Resp: 413795

Ion Ratio Lower Upper

106 100

91 196.4 142.7 264.9

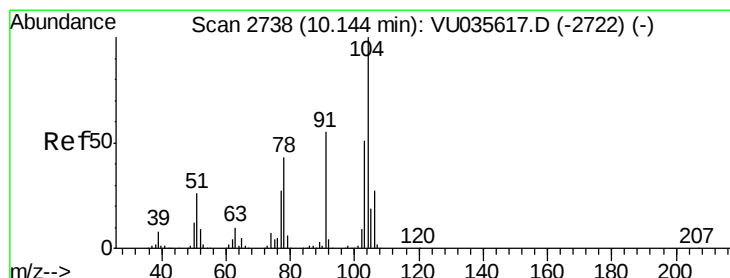
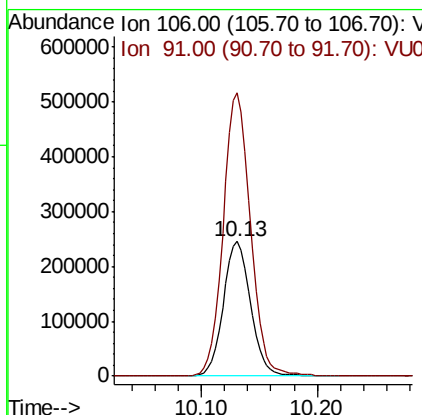
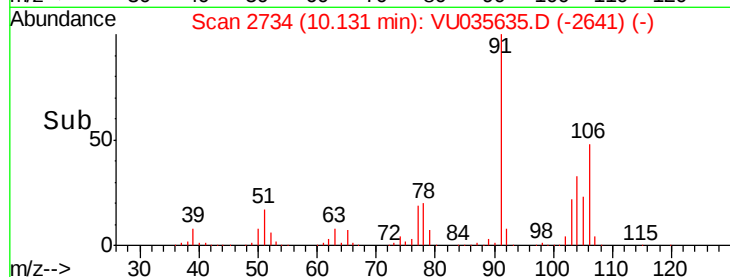
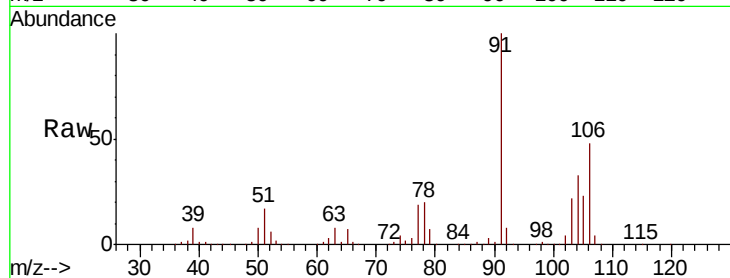




#54
o-xylene
Concen: 53.256 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

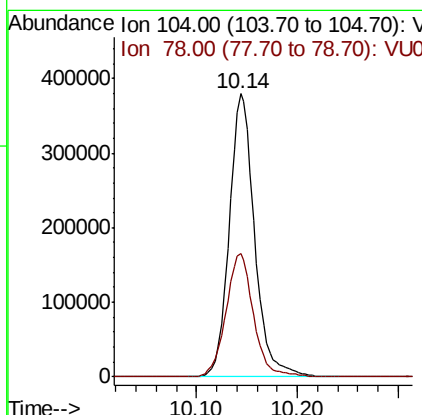
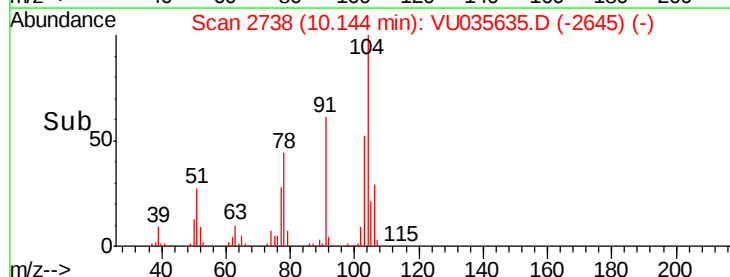
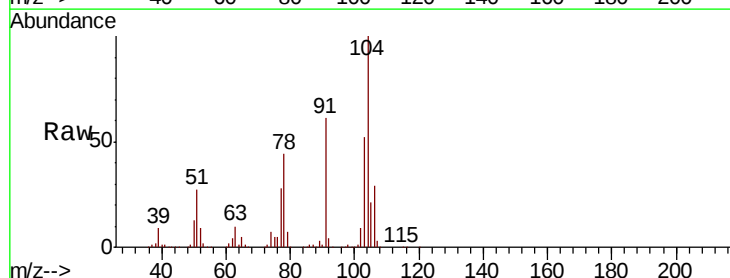
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

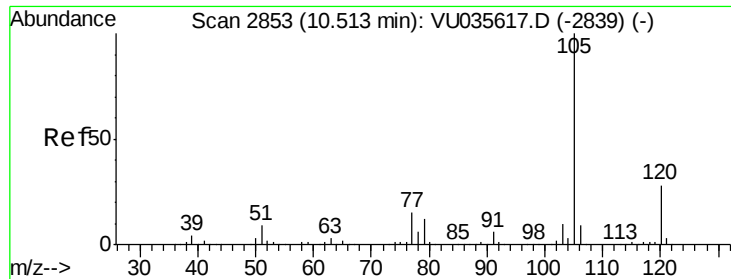
Tot Ion:106 Resp: 402121
Ion Ratio Lower Upper
106 100
91 210.4 147.1 273.1



#55
Styrene
Concen: 52.996 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU035635.D
Acq: 05 Nov 2019 16:55

Tgt Ion:104 Resp: 664090
Ion Ratio Lower Upper
104 100
78 43.7 31.4 58.4





#56

Isopropylbenzene

Concen: 53.377 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

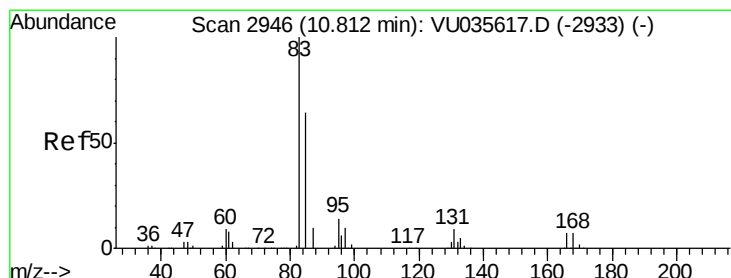
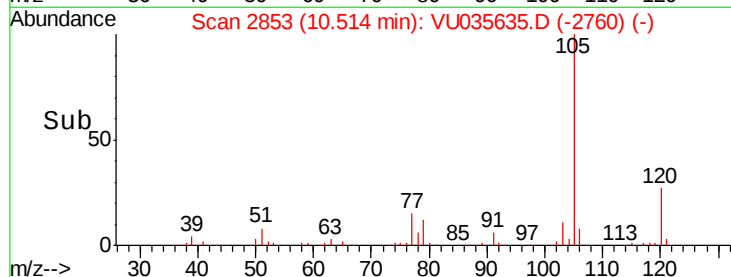
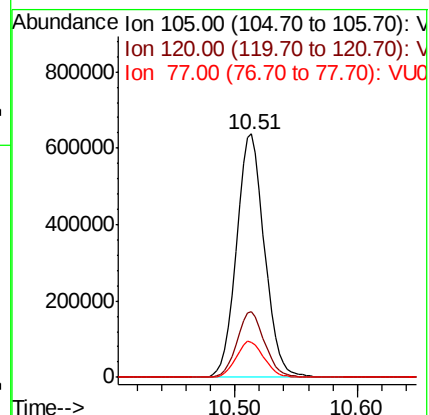
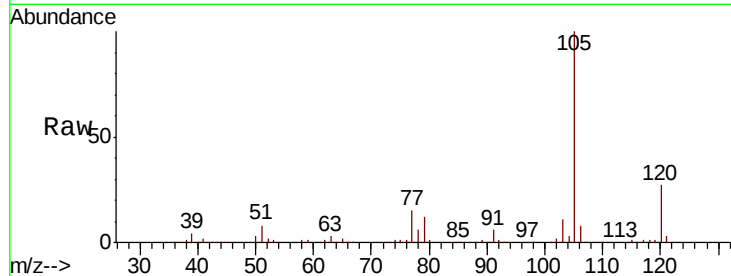
Tot Ion:105 Resp: 1012793

Ion Ratio Lower Upper

105 100

120 26.8 21.1 31.7

77 14.8 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 50.392 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

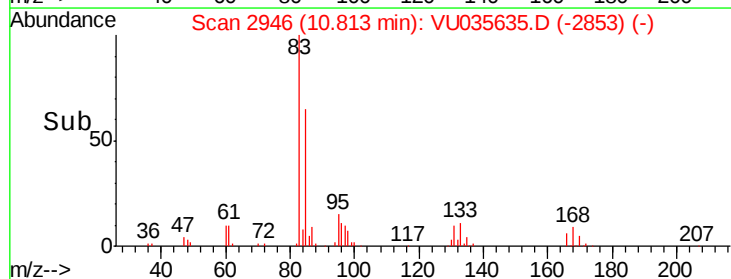
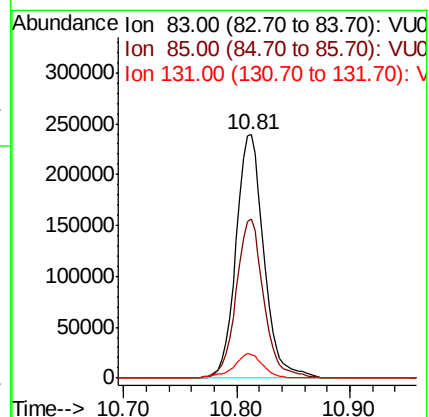
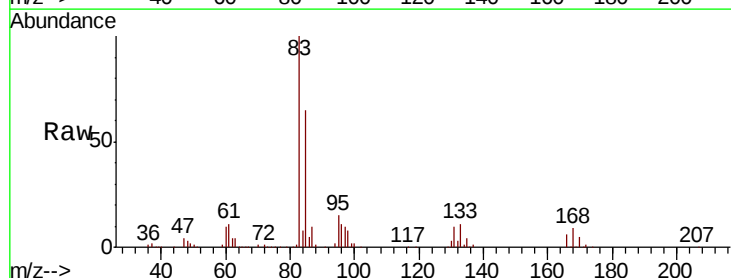
Tgt Ion: 83 Resp: 409372

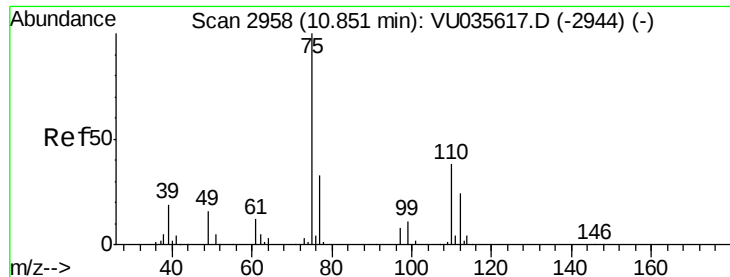
Ion Ratio Lower Upper

83 100

85 65.5 44.6 82.8

131 9.8 8.2 12.4





#59

1,2,3-Trichloropropane

Concen: 49.538 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

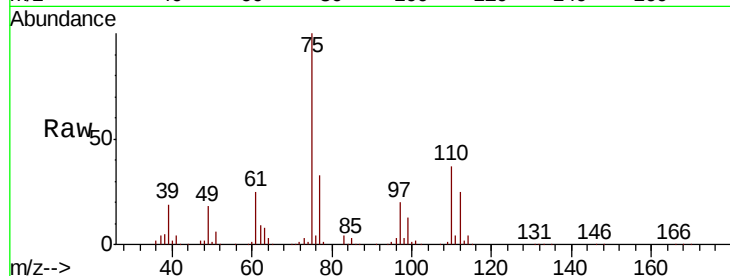
VSTD05036

Tot Ion: 75 Resp: 317828

Ion Ratio Lower Upper

75 100

77 32.4 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035617.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU035617.D (-2944) (-)

10.85

200000

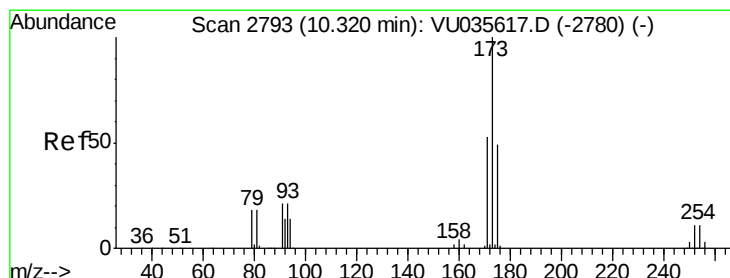
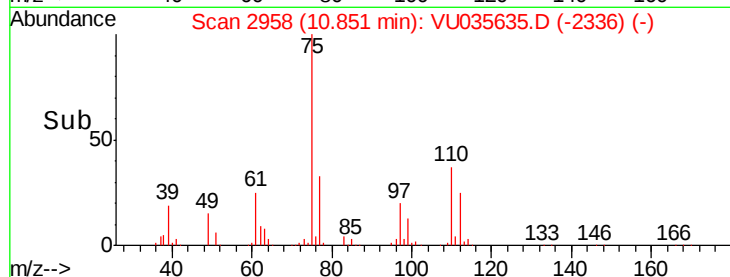
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 46.441 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

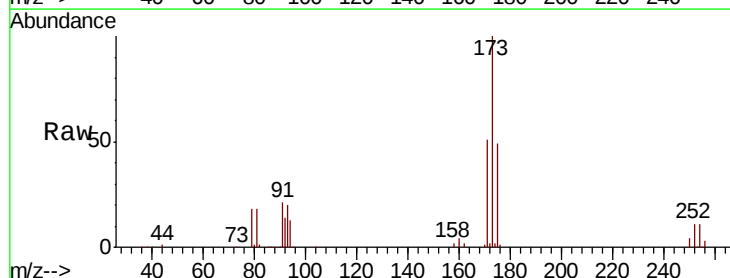
Tgt Ion: 173 Resp: 214647

Ion Ratio Lower Upper

173 100

175 49.1 39.4 59.0

254 10.4 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035617.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035617.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035617.D (-2780) (-)

10.32

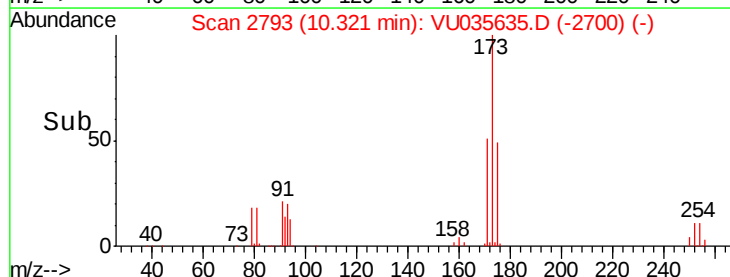
150000

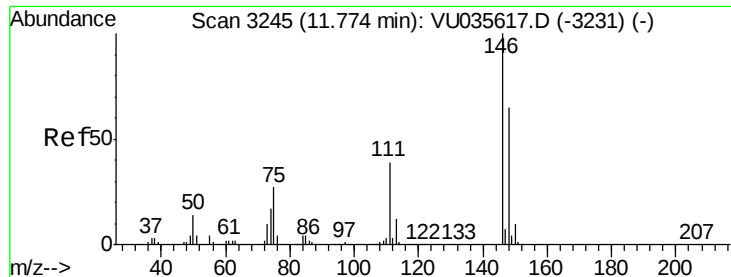
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.130 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

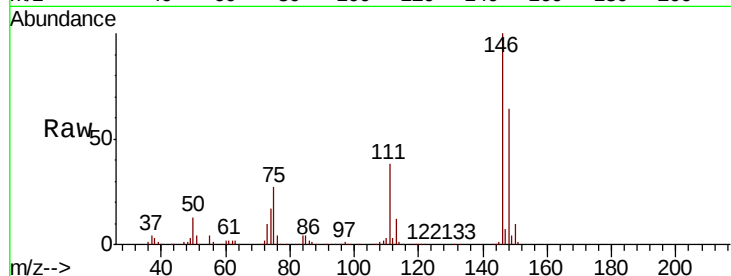
Tot Ion:146 Resp: 459996

Ion Ratio Lower Upper

146 100

111 37.8 27.8 51.6

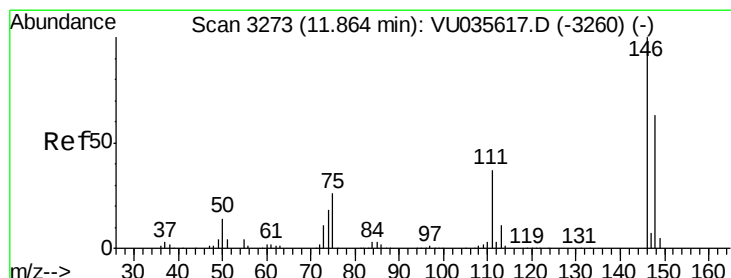
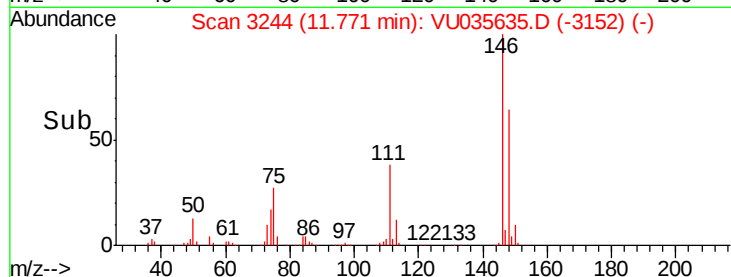
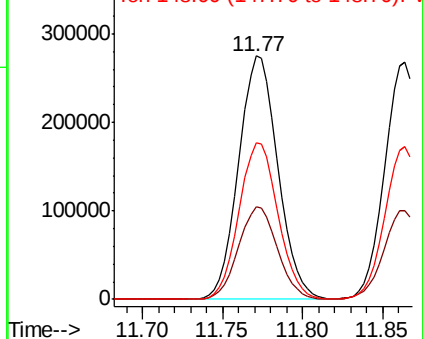
148 64.2 44.5 82.7



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: 45.907 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

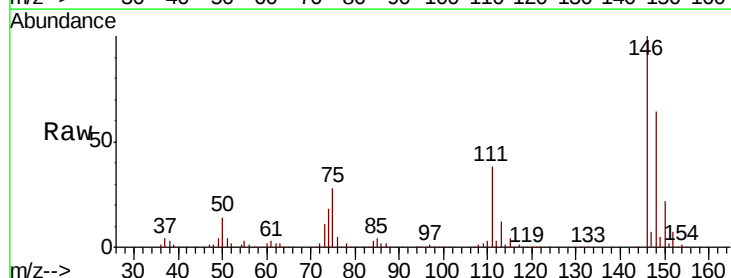
Tgt Ion:146 Resp: 445714

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.1

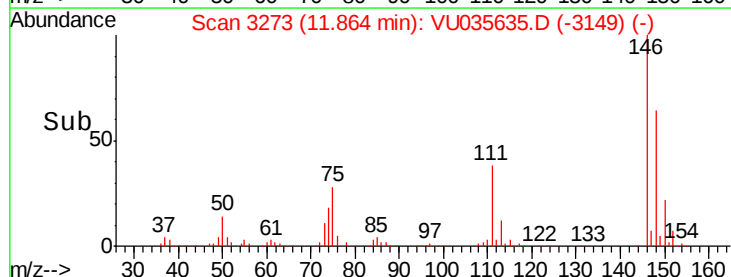
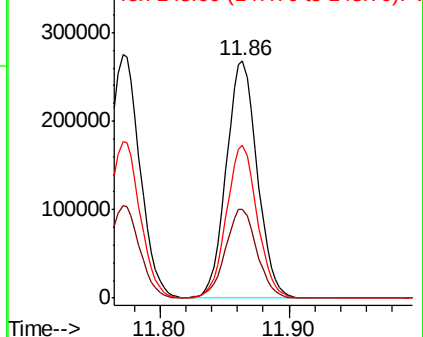
148 64.3 44.4 82.5

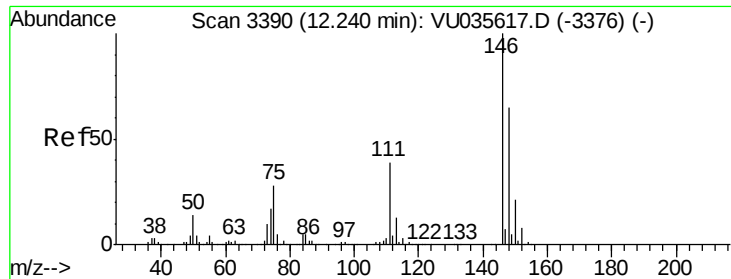


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

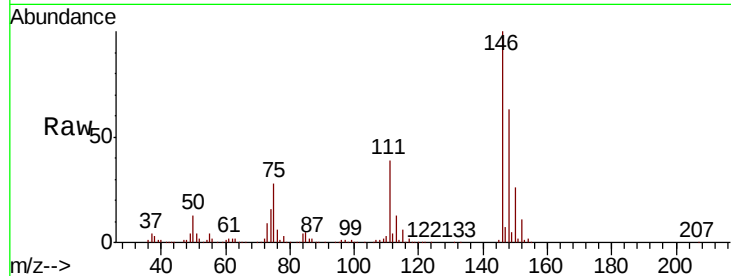




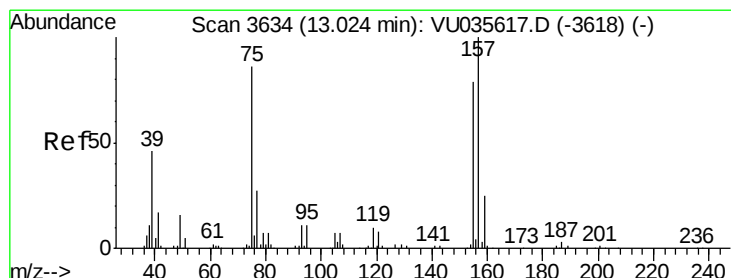
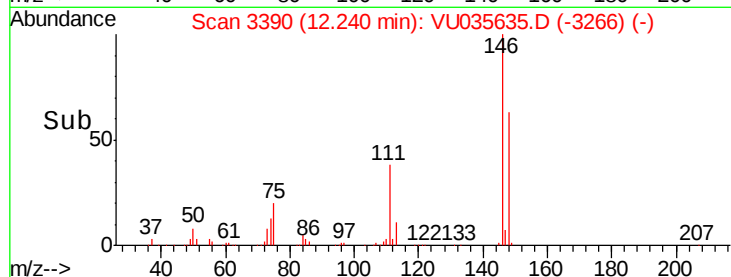
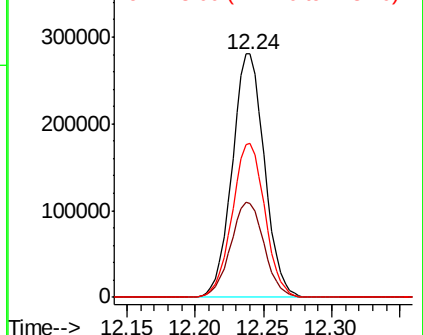
#65
 1,2-Dichlorobenzene
 Concen: 47.316 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	32.4	48.6
148	63.3	51.8	77.6

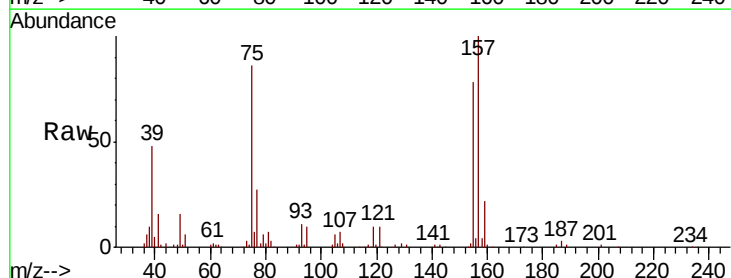


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

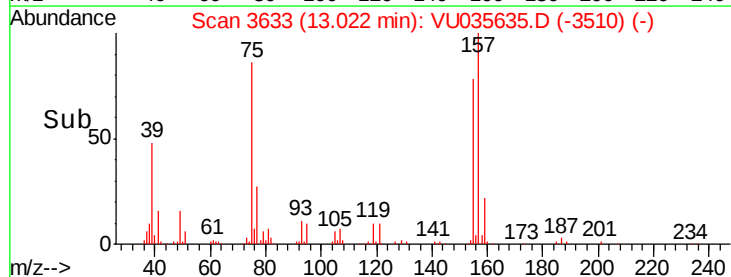
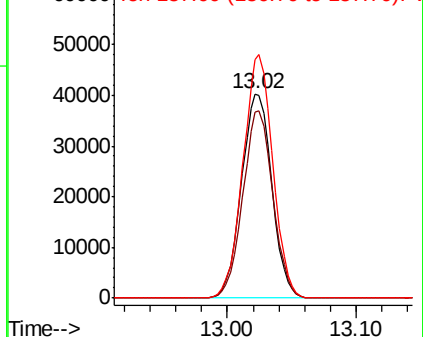


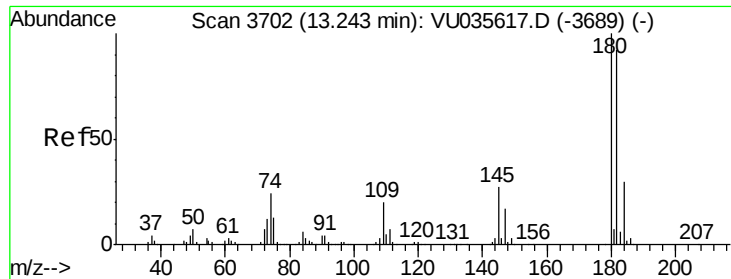
#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.751 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.3	72.2	108.4
157	116.4	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

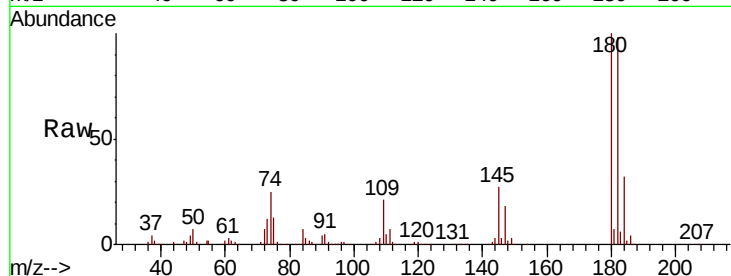




#67
 1,3,5-Trichlorobenzene
 Concen: 44.267 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.0	115.4
184	31.0	24.6	36.8
145	27.4	21.7	32.5



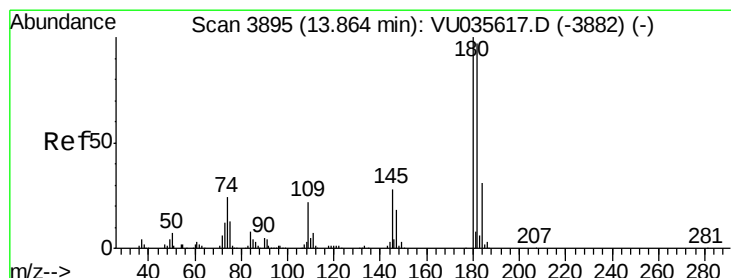
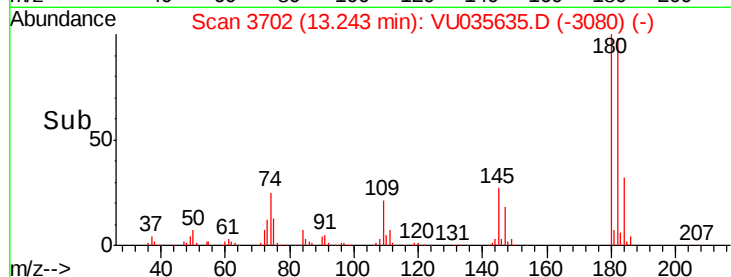
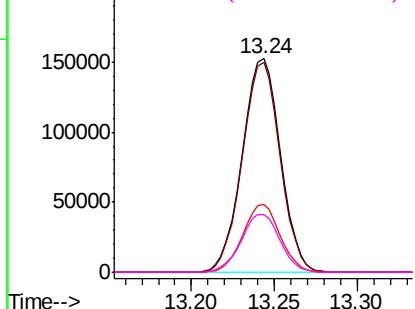
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

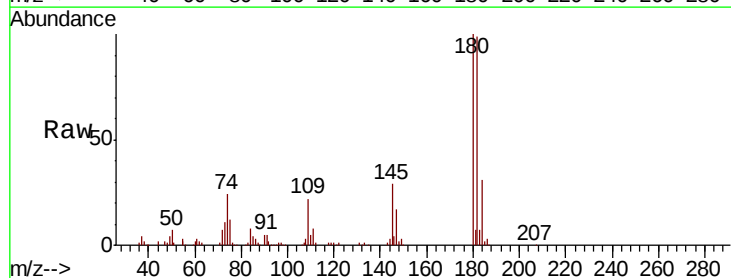
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 35.827 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035635.D
 Acq: 05 Nov 2019 16:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.6	115.0
145	28.7	21.9	32.9

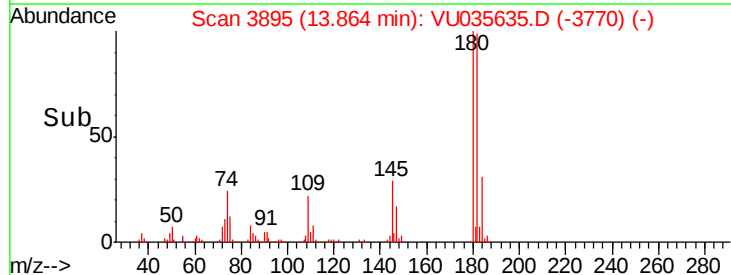
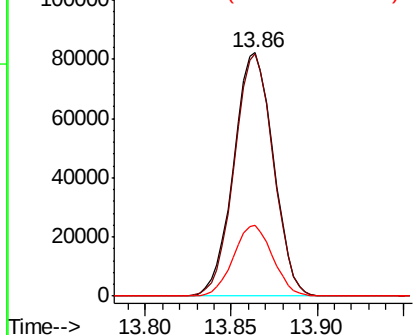


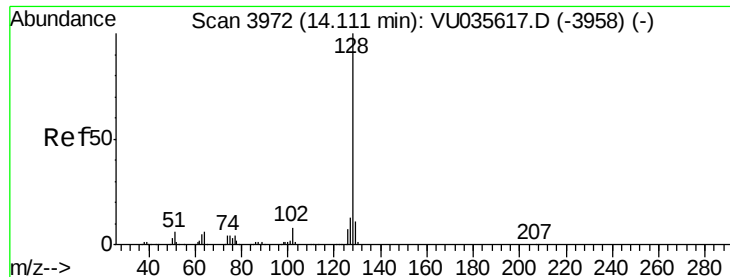
Abundance

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: 31.138 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

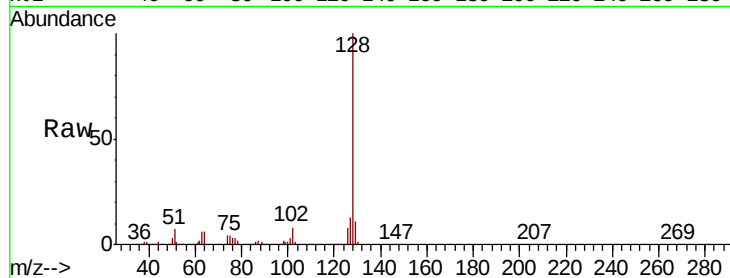
Tot Ion:128 Resp: 295406

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

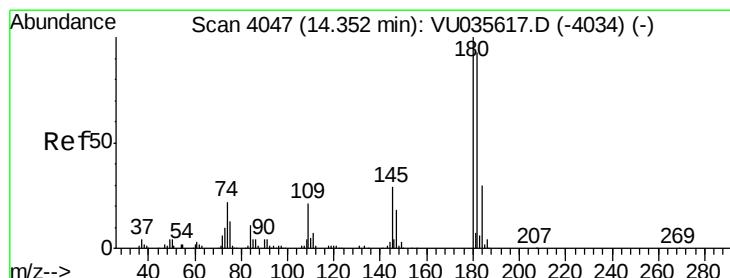
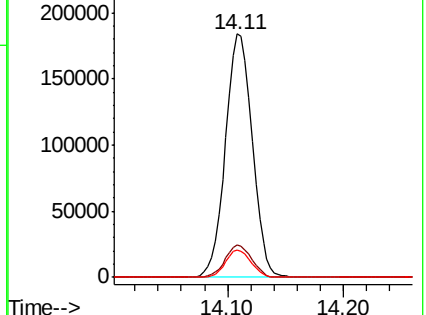
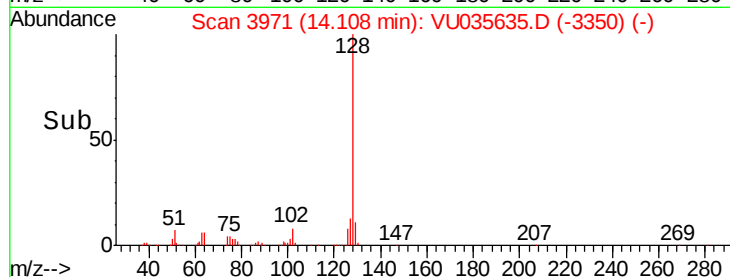
129 10.8 8.5 12.7



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: 36.655 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035635.D

Acq: 05 Nov 2019 16:55

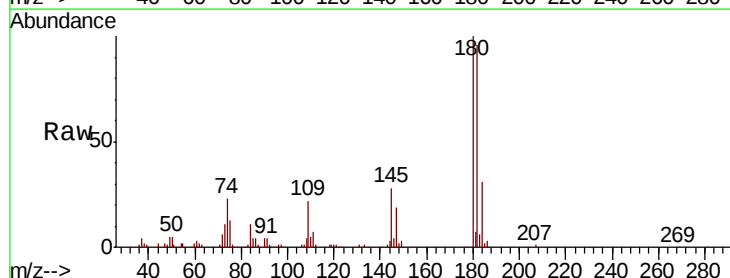
Tgt Ion:180 Resp: 146078

Ion Ratio Lower Upper

180 100

182 95.8 77.6 116.4

145 28.6 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

