

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010920\
 Data File : VU036423.D
 Acq On : 09 Jan 2020 17:13
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:10:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 10 04:07:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	503676	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	492880	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	239378	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	139897	35.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.30%
7) Chloroethane-d5	1.93	69	129724	39.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.36%
11) 1,1-Dichloroethene-d2	2.59	63	292332	43.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.44%
21) 2-Butanone-d5	4.68	46	256908	87.90	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.90%
24) Chloroform-d	5.11	84	331437	48.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.76%
26) 1,2-Dichloroethane-d4	5.74	65	220946	48.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.30%
32) Benzene-d6	5.77	84	634777	46.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.52%
36) 1,2-Dichloropropane-d6	6.73	67	214373	46.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.16%
41) Toluene-d8	7.93	98	608199	46.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.34%
43) trans-1,3-Dichloropropene-	8.21	79	112994	45.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.50%
47) 2-Hexanone-d5	8.67	63	208334	87.78	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.78%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	319803	45.82	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.64%
64) 1,2-Dichlorobenzene-d4	12.21	152	226567	45.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.24%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	175592	43.649	ug/L	99
3) Chloromethane	1.54	50	164898	45.051	ug/L	98
5) Vinyl chloride	1.62	62	169707	39.946	ug/L	98
6) Bromomethane	1.87	94	103597	50.459	ug/L	100
8) Chloroethane	1.95	64	104517	40.889	ug/L	99
9) Trichlorofluoromethane	2.16	101	253050	42.368	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	141175	47.747	ug/L	98
12) 1,1-Dichloroethene	2.61	96	131661	45.172	ug/L	93
13) Acetone	2.66	43	168516	55.591	ug/L	98
14) Carbon disulfide	2.82	76	357044	39.586	ug/L	98
15) Methyl Acetate	2.98	43	190408	46.711	ug/L	97
16) Methylene chloride	3.08	84	168763	47.301	ug/L	100
17) trans-1,2-Dichloroethene	3.39	96	144628	45.963	ug/L	97
18) Methyl tert-butyl Ether	3.41	73	554194	48.483	ug/L	99
19) 1,1-Dichloroethane	3.92	63	303547	48.127	ug/L	95
20) cis-1,2-Dichloroethene	4.71	96	177651	46.676	ug/L #	92
22) 2-Butanone	4.75	43	270803	75.621	ug/L	96

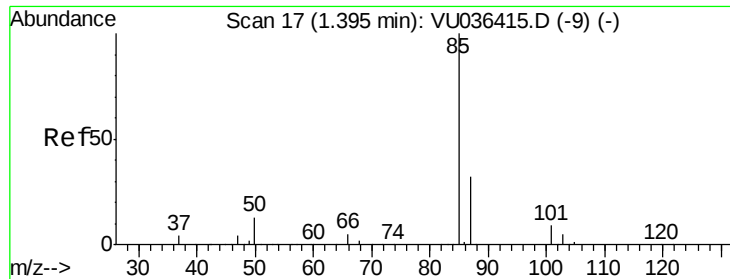
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010920\
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 Quant Title : VOC Analysis
 QLast Update : Fri Jan 10 04:07:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	87034	47.636	ug/L	98
25) Chloroform	5.13	83	331014	49.255	ug/L	99
27) 1,2-Dichloroethane	5.84	62	256000	49.278	ug/L	98
29) Cyclohexane	5.43	56	256375	44.893	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	282031	46.687	ug/L	99
31) Carbon tetrachloride	5.56	117	237418	45.339	ug/L	99
33) Benzene	5.81	78	663400	45.819	ug/L	100
34) Trichloroethene	6.58	95	176842	47.377	ug/L	96
35) Methylcyclohexane	6.80	83	263035	44.149	ug/L	100
37) 1,2-Dichloropropane	6.83	63	182774	46.619	ug/L	99
38) Bromodichloromethane	7.14	83	256724	46.415	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	287203	43.758	ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	564179	84.682	ug/L	99
42) Toluene	8.00	91	738878	46.344	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	278650	45.572	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	177843	48.621	ug/L	98
46) Tetrachloroethene	8.58	164	119572	44.522	ug/L	95
48) 2-Hexanone	8.72	43	444995	86.806	ug/L	97
49) Dibromochloromethane	8.84	129	201273	44.830	ug/L	99
50) 1,2-Dibromoethane	8.95	107	196285	46.272	ug/L	100
51) Chlorobenzene	9.47	112	469803	46.686	ug/L	99
52) Ethylbenzene	9.60	91	847362	46.697	ug/L	98
53) m,p-Xylene	9.72	106	307659	45.707	ug/L	99
54) o-xylene	10.13	106	314535	46.571	ug/L	98
55) Styrene	10.14	104	523228	45.818	ug/L	100
56) Isopropylbenzene	10.51	105	823346	46.772	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	313970	45.411	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	254511	46.268	ug/L	99
61) Bromoform	10.32	173	143659	40.385	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	350706	45.337	ug/L	95
63) 1,4-Dichlorobenzene	11.86	146	344794	44.934	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	348356	44.946	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.02	75	70725	39.106	ug/L	90
67) 1,3,5-Trichlorobenzene	13.24	180	211709	41.215	ug/L	98
68) 1,2,4-trichlorobenzene	13.86	180	157382	40.427	ug/L	97
69) Naphthalene	14.10	128	483726	36.161	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	163473	39.985	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 43.649 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

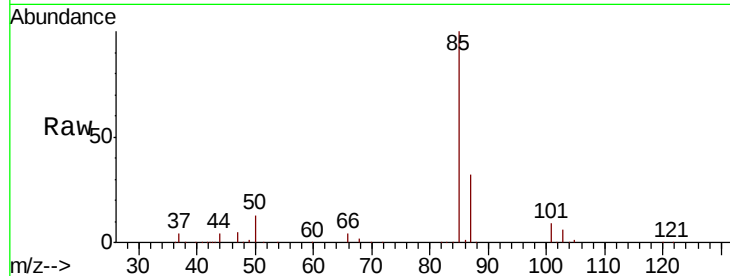
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 175592

Ion Ratio Lower Upper

85 100

87 32.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU036415.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036415.D (-9) (-)

1.39

200000

150000

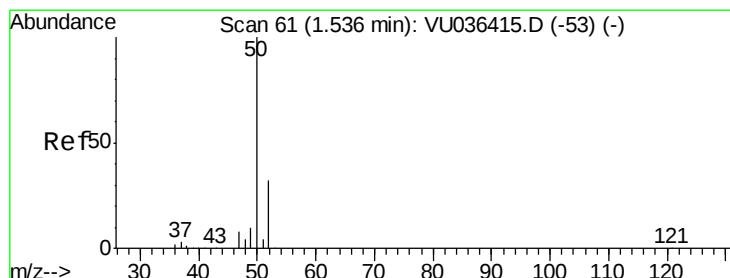
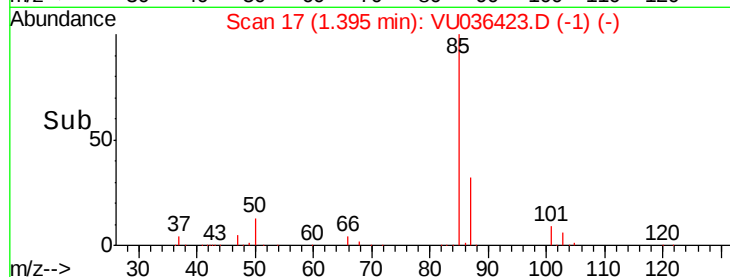
100000

50000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 45.051 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036423.D

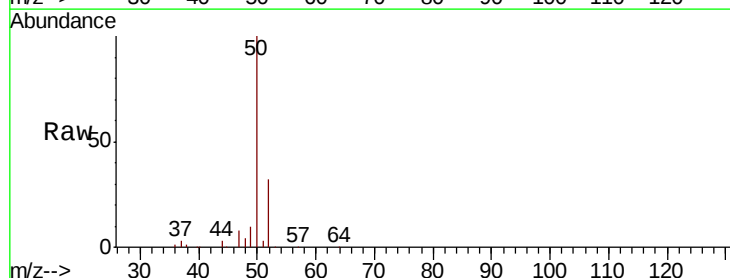
Acq: 09 Jan 2020 17:13

Tgt Ion: 50 Resp: 164898

Ion Ratio Lower Upper

50 100

52 31.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU036415.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036415.D (-53) (-)

1.54

150000

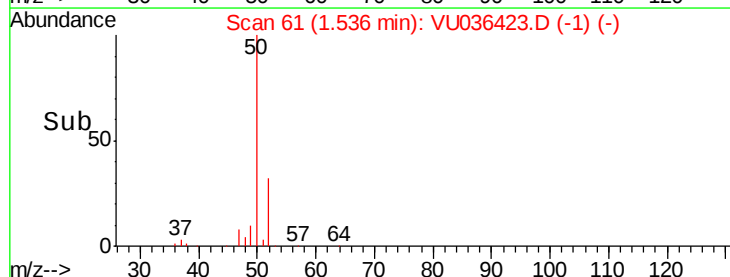
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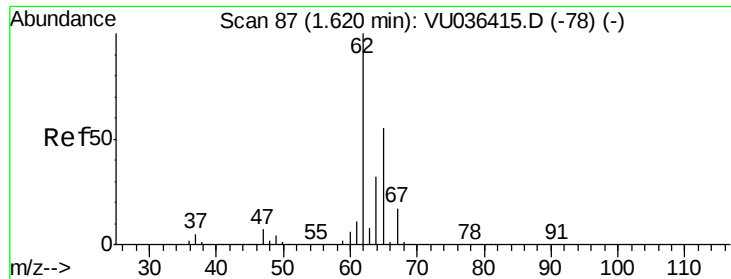
50000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 39.946 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

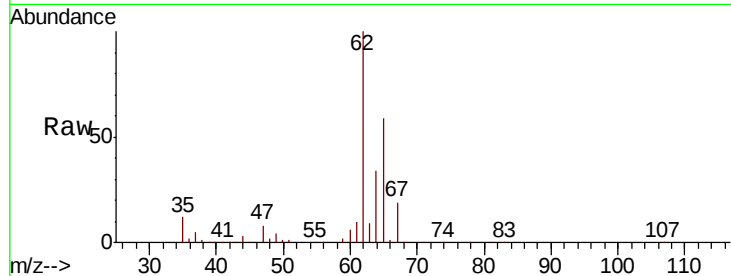
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 169707

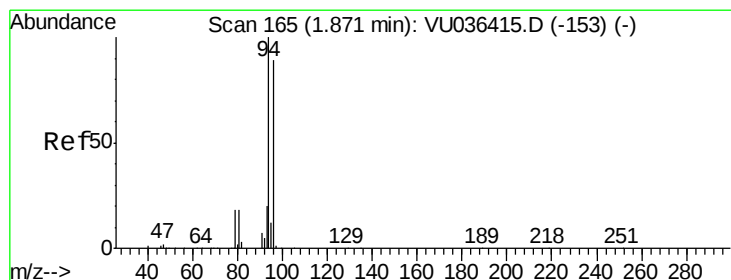
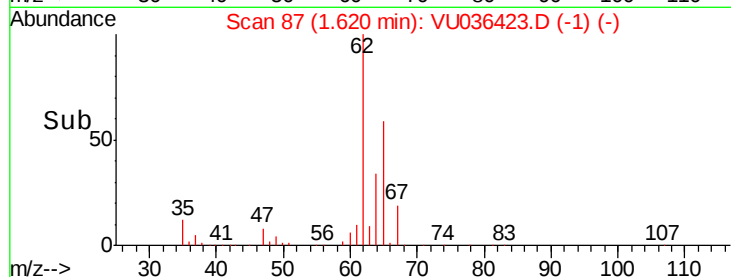
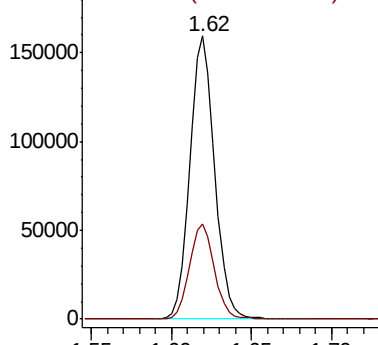
Ion Ratio Lower Upper

62 100

64 33.7 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 50.459 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036423.D

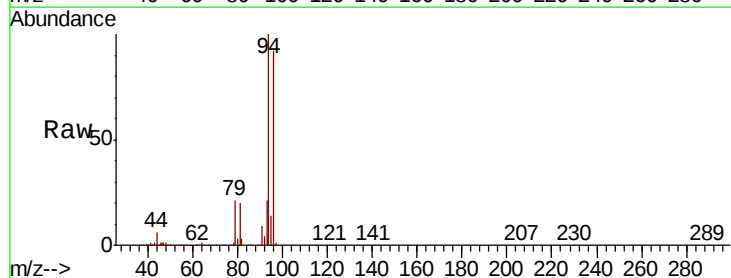
Acq: 09 Jan 2020 17:13

Tgt Ion: 94 Resp: 103597

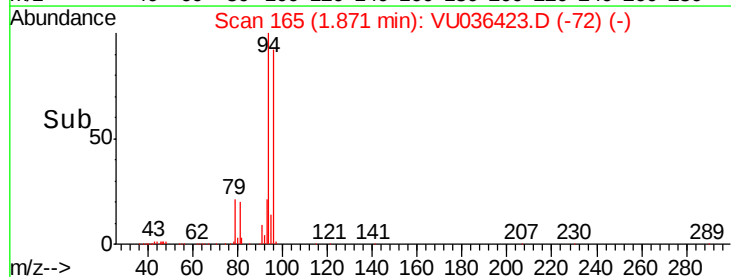
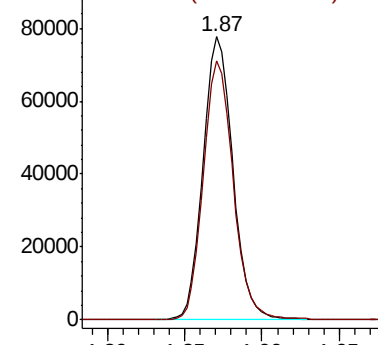
Ion Ratio Lower Upper

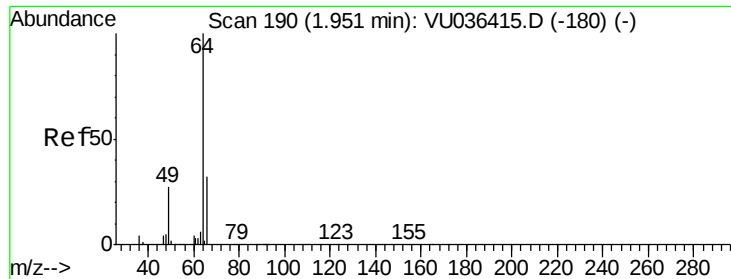
94 100

96 91.7 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0

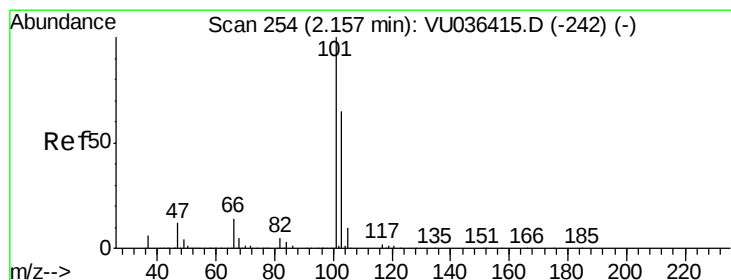
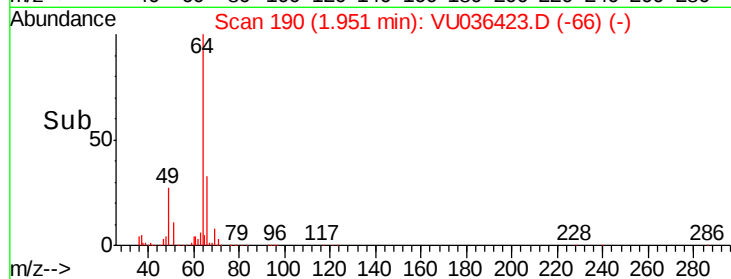
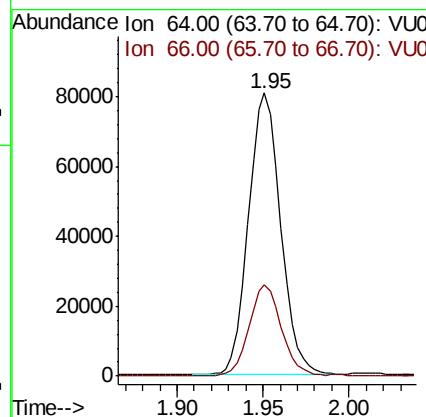
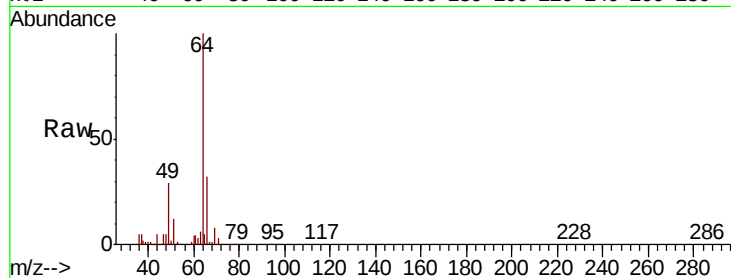




#8
Chloroethane
Concen: 40.889 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

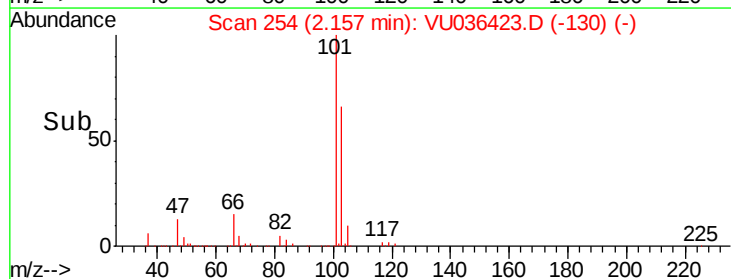
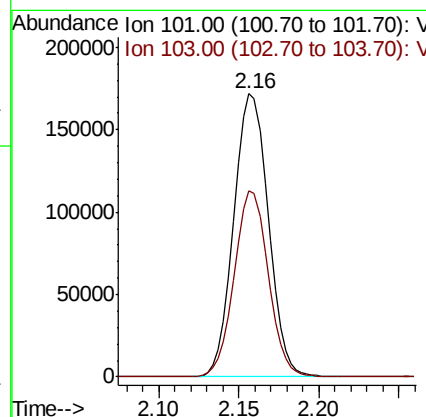
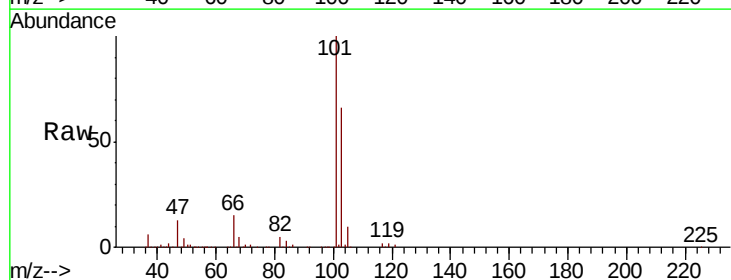
Instrument :
MSVOA_U
ClientSampleId :

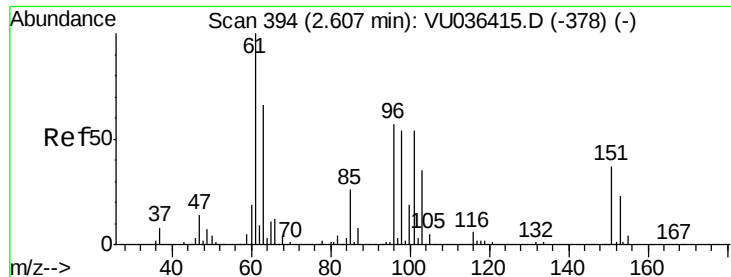
Tot Ion: 64 Resp: 104517
Ion Ratio Lower Upper
64 100
66 32.5 22.3 41.3



#9
Trichlorofluoromethane
Concen: 42.368 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Tgt Ion:101 Resp: 253050
Ion Ratio Lower Upper
101 100
103 64.9 51.6 77.4





#10

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

Concen: 47.747 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampled :

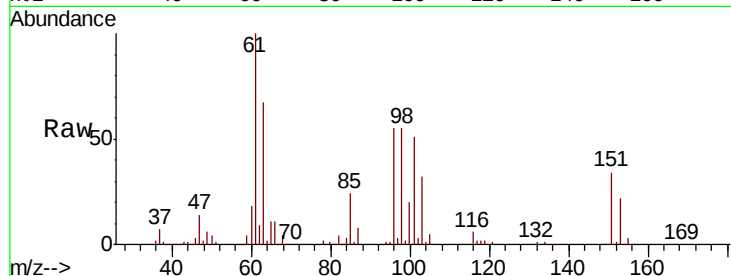
Tot Ion:101 Resp: 141175

Ion Ratio Lower Upper

101 100

85 47.4 37.1 55.7

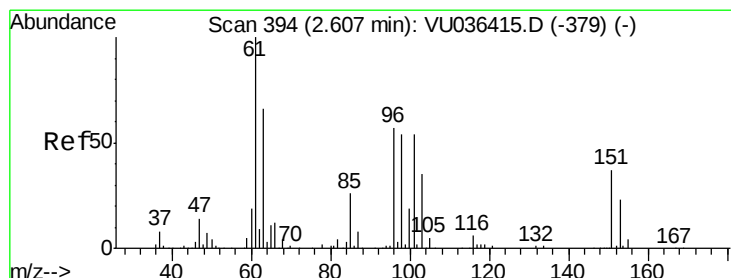
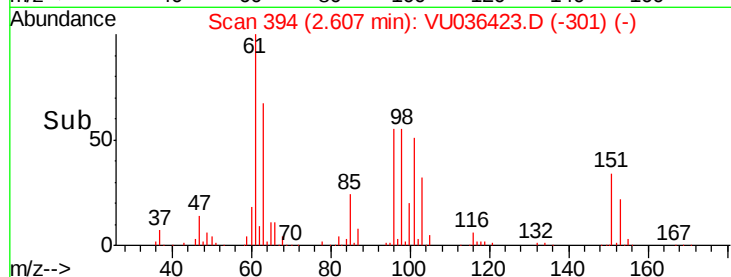
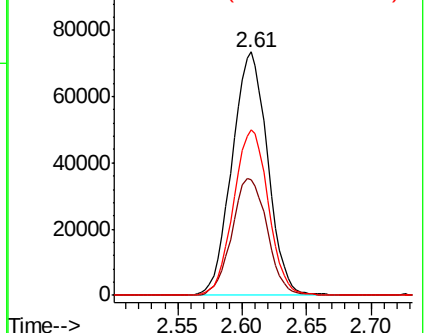
151 66.5 54.3 81.5



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: 45.172 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

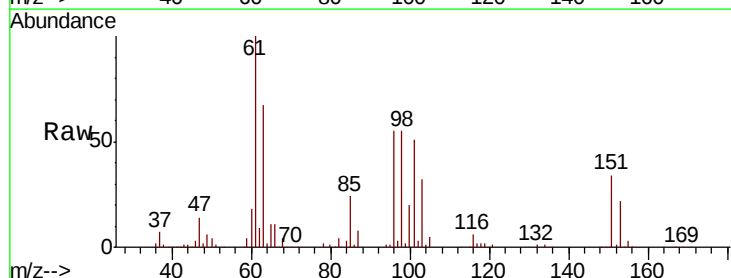
Tgt Ion: 96 Resp: 131661

Ion Ratio Lower Upper

96 100

61 183.4 120.9 224.5

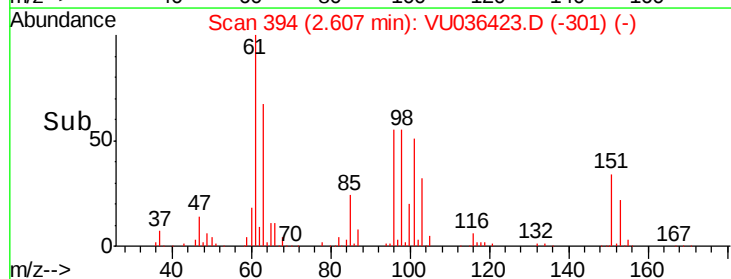
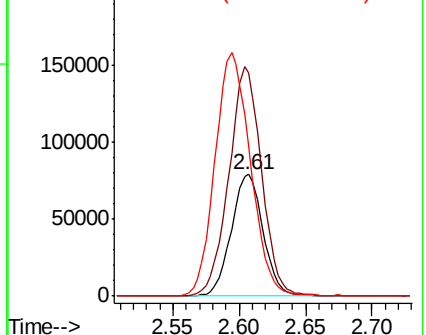
63 123.4 81.8 152.0

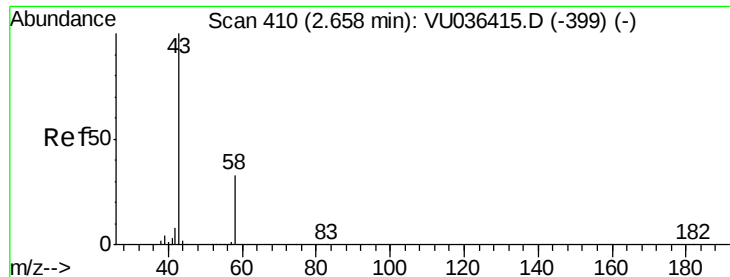


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 55.591 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

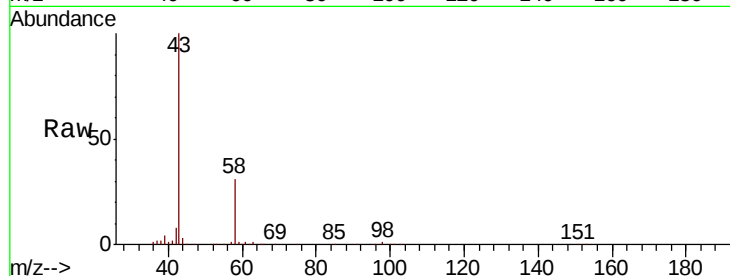
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 168516

Ion Ratio Lower Upper

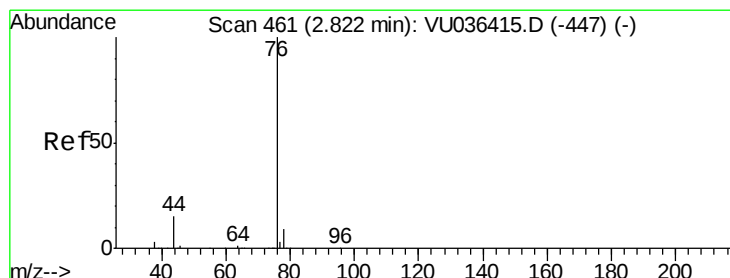
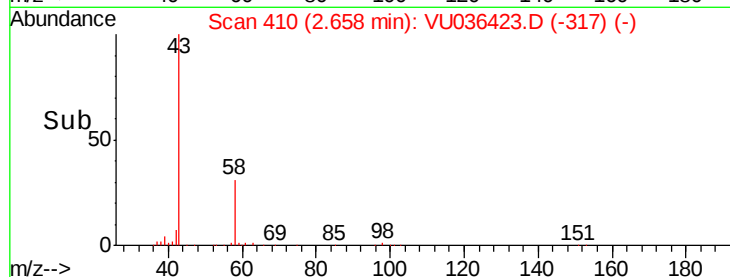
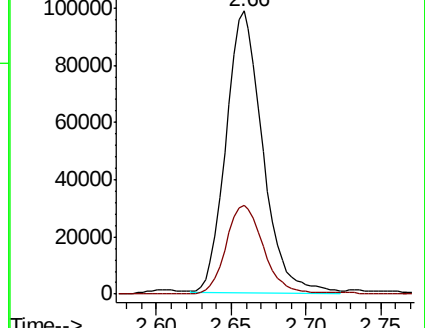
43 100

58 31.8 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU036415.D (-399) (-)

Ion 58.00 (57.70 to 58.70): VU036415.D (-399) (-)



#14

Carbon disulfide

Concen: 39.586 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036423.D

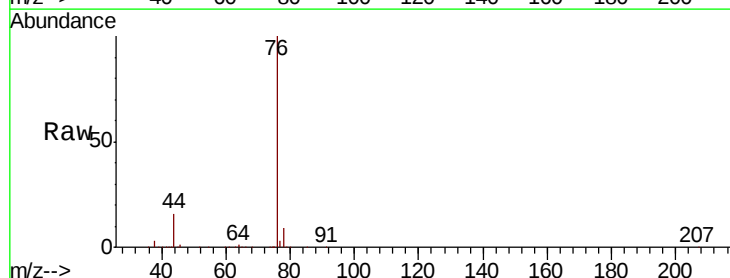
Acq: 09 Jan 2020 17:13

Tgt Ion: 76 Resp: 357044

Ion Ratio Lower Upper

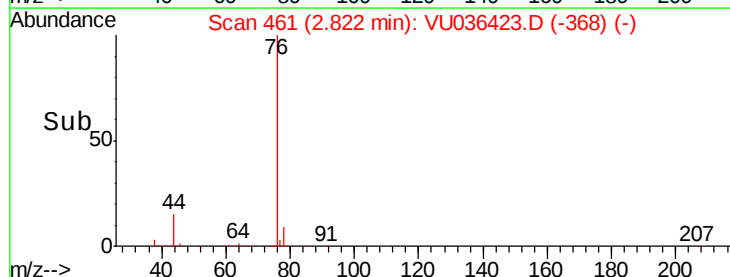
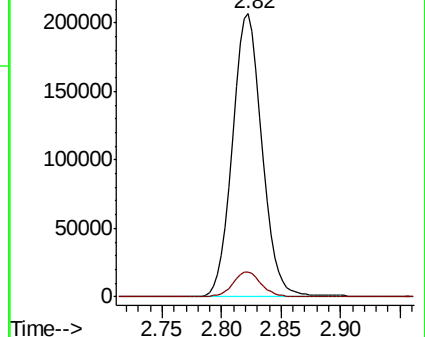
76 100

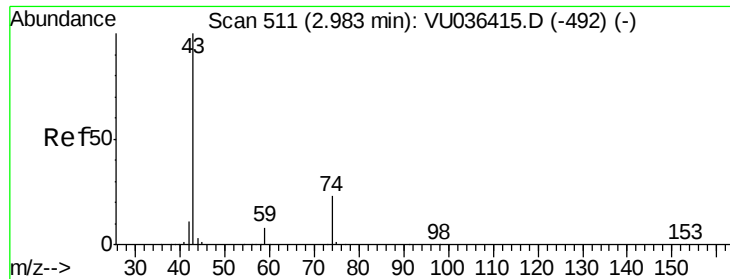
78 8.9 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VU036415.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU036415.D (-447) (-)

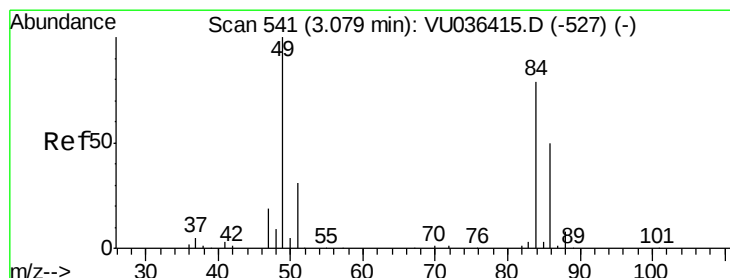
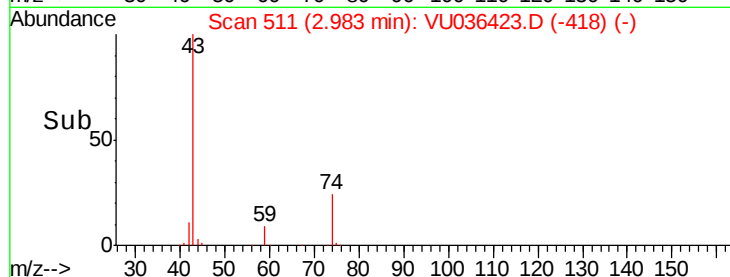
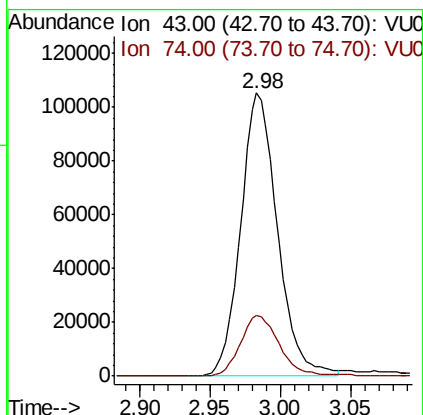
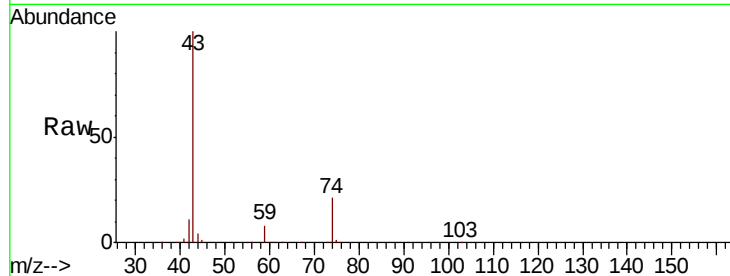




#15
Methvl Acetate
Concen: 46.711 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

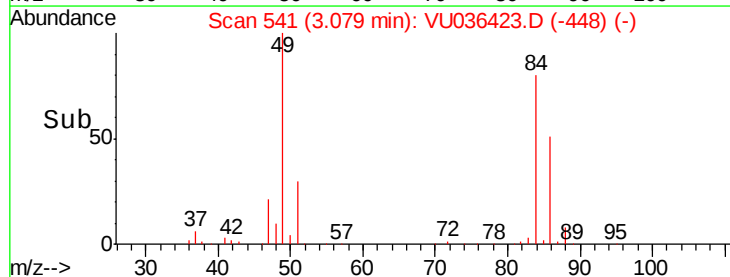
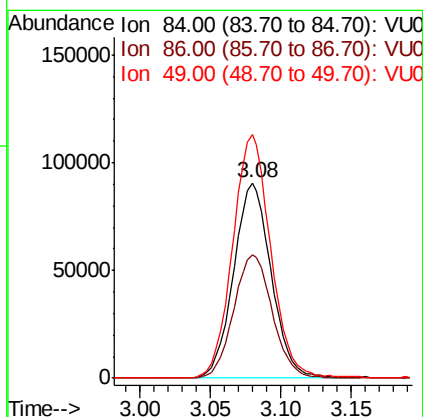
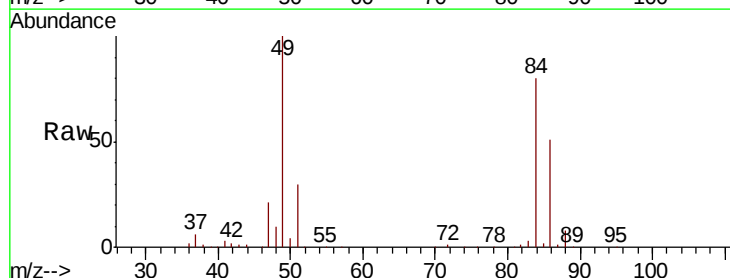
Instrument :
MSVOA_U
ClientSampled :

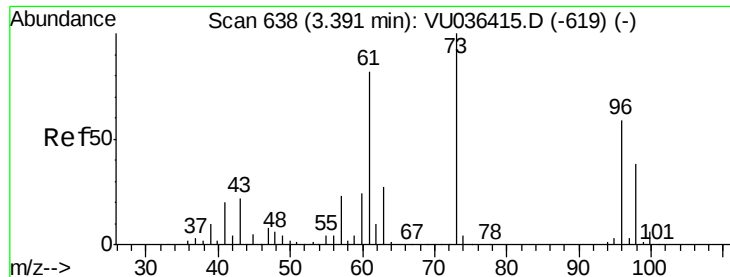
Tot Ion: 43 Resp: 190408
Ion Ratio Lower Upper
43 100
74 22.7 19.4 29.2



#16
Methylene chloride
Concen: 47.301 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Tgt Ion: 84 Resp: 168763
Ion Ratio Lower Upper
84 100
86 63.5 44.6 82.8
49 124.8 87.6 162.6

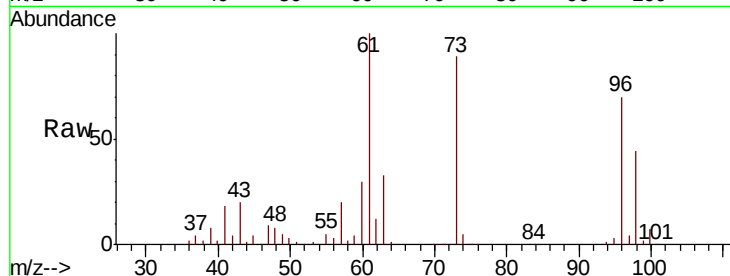




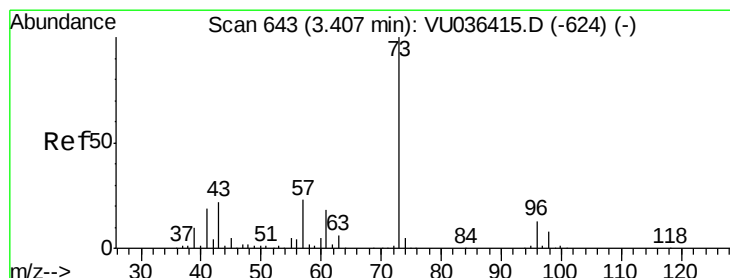
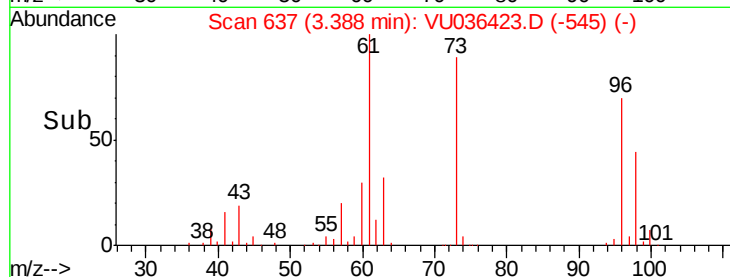
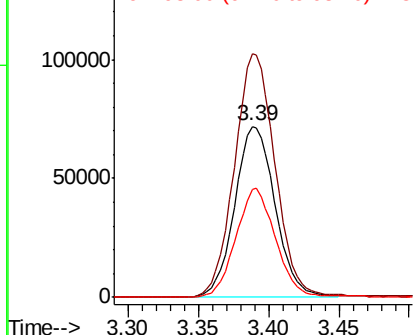
#17
trans-1,2-Dichloroethene
Concen: 45.963 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 144628
Ion Ratio Lower Upper
96 100
61 142.4 96.2 178.8
98 63.1 44.2 82.2

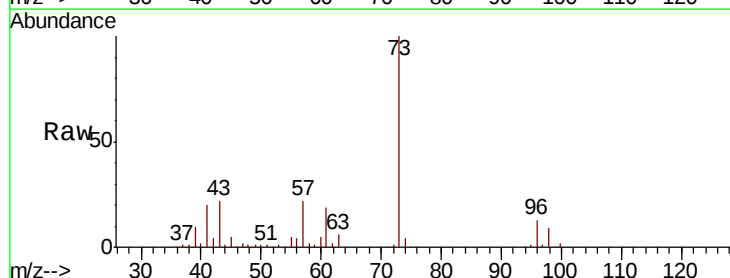


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

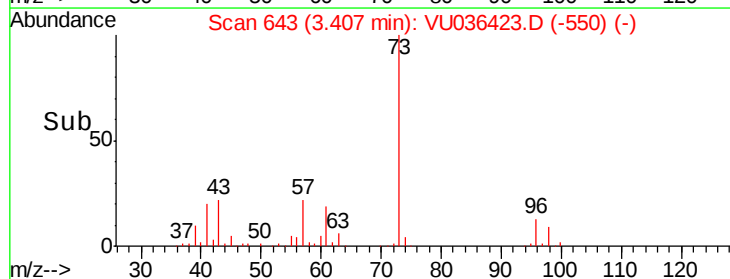
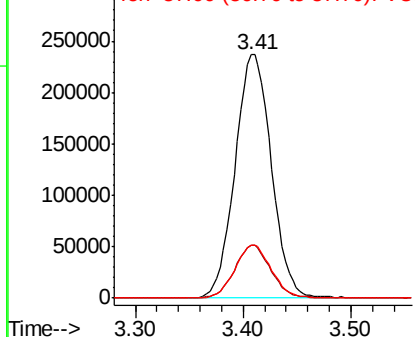


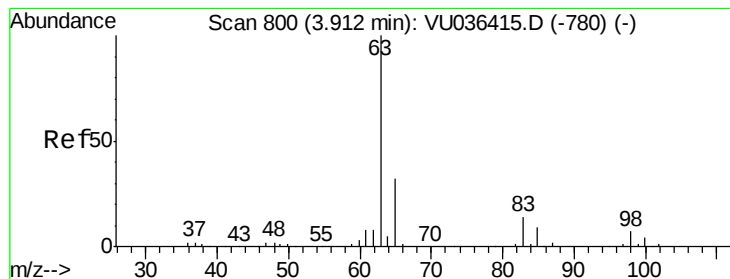
#18
Methyl tert-butyl Ether
Concen: 48.483 ug/L
RT: 3.41 min Scan# 643
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Tgt Ion: 73 Resp: 554194
Ion Ratio Lower Upper
73 100
43 21.3 16.3 24.5
57 22.0 17.7 26.5



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





#19

1,1-Dichloroethane

Concen: 48.127 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :
MSVOA_U
ClientSampleId :

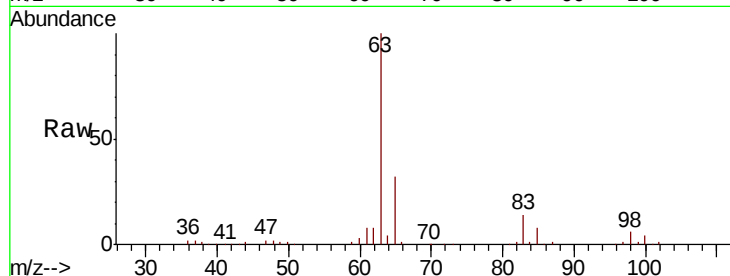
Tot Ion: 63 Resp: 303547

Ion Ratio Lower Upper

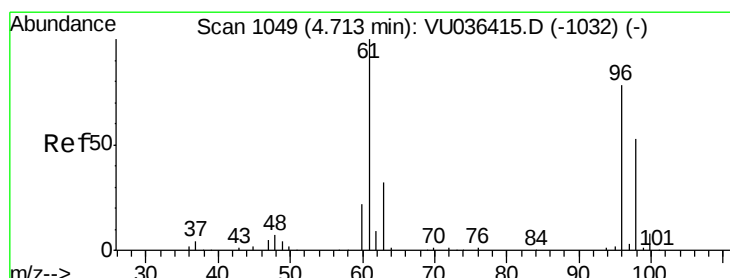
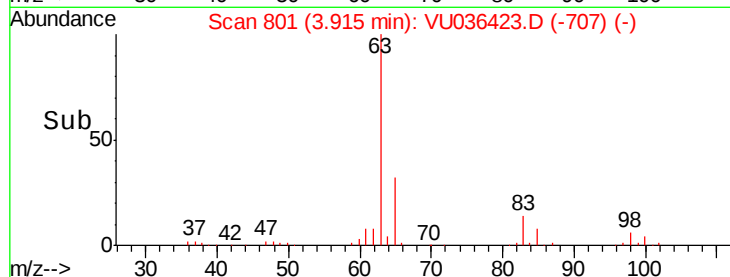
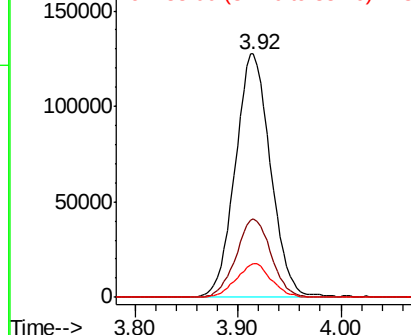
63 100

65 32.0 20.0 37.2

83 14.0 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 46.676 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

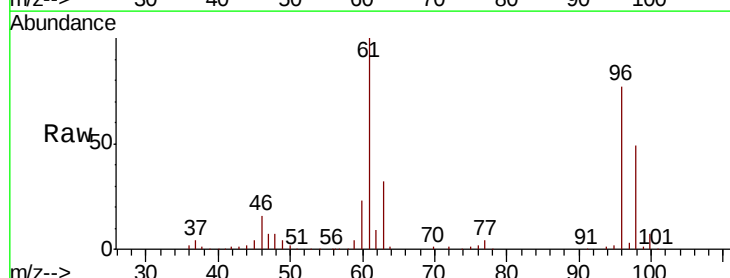
Tgt Ion: 96 Resp: 177651

Ion Ratio Lower Upper

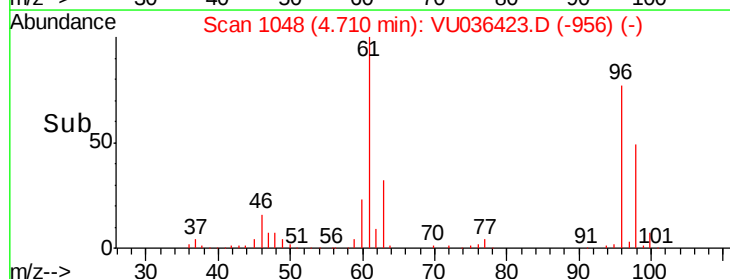
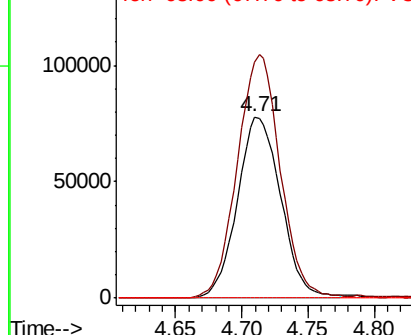
96 100

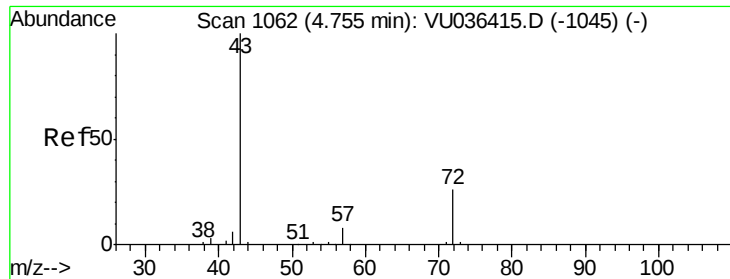
61 130.7 85.1 158.1

68 0.0 0.1 0.3#



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 75.621 ug/L

RT: 4.75 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

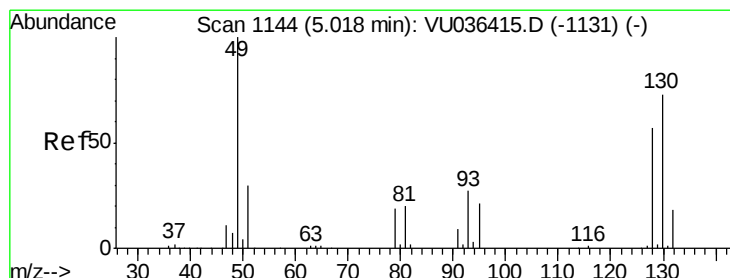
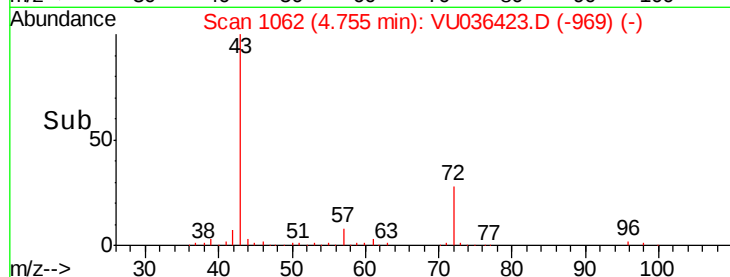
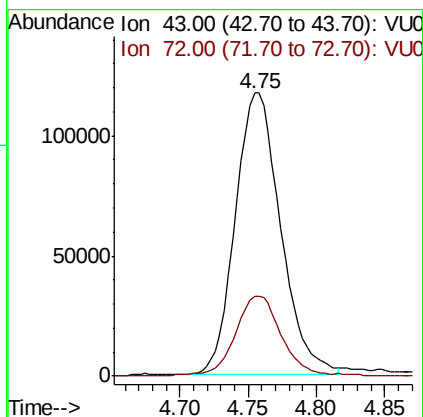
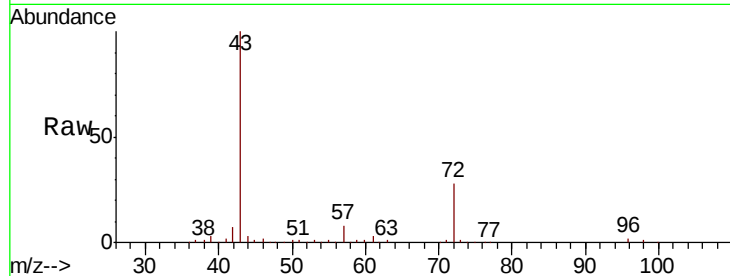
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 270803

Ion Ratio Lower Upper

43 100

72 28.8 13.4 40.1



#23

Bromochloromethane

Concen: 47.636 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Tgt Ion: 128 Resp: 87034

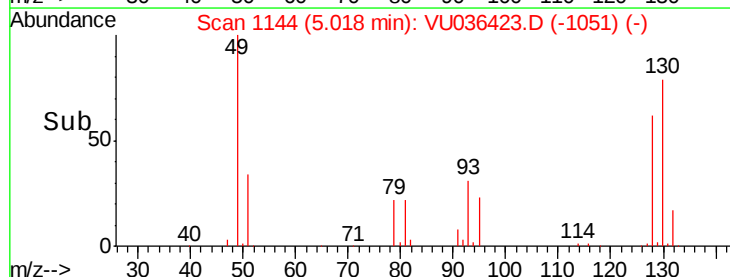
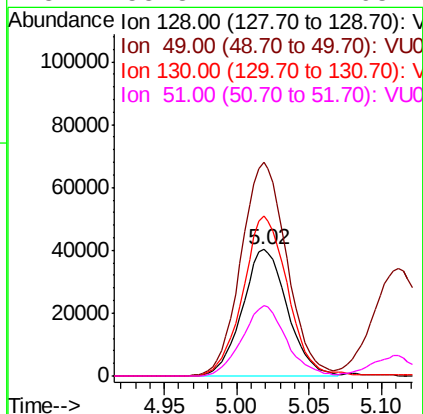
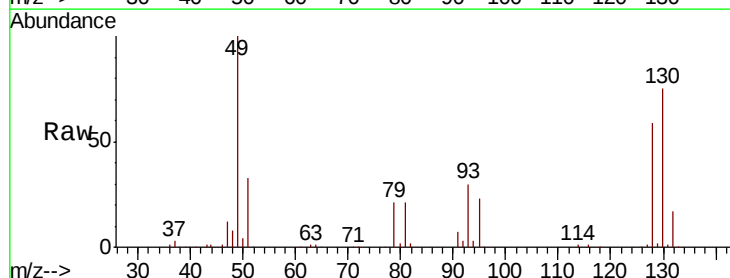
Ion Ratio Lower Upper

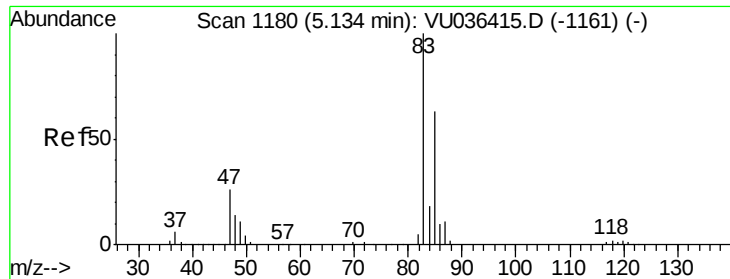
128 100

49 168.7 115.0 213.6

130 126.8 89.1 165.5

51 55.8 42.2 63.4

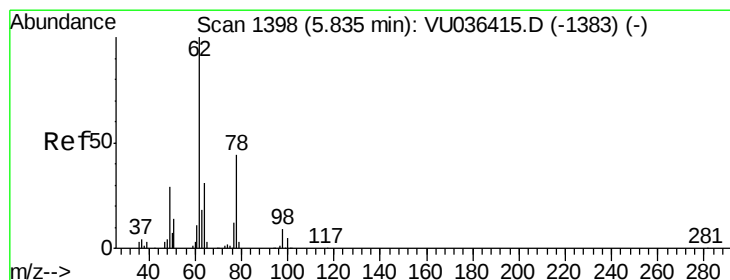
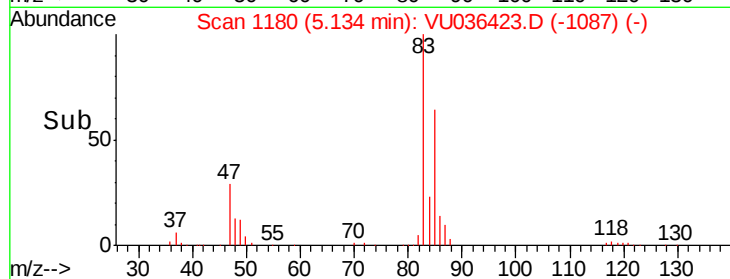
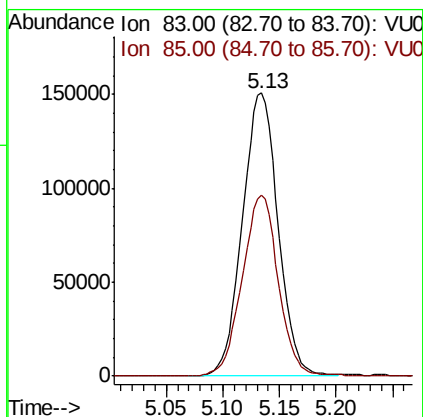
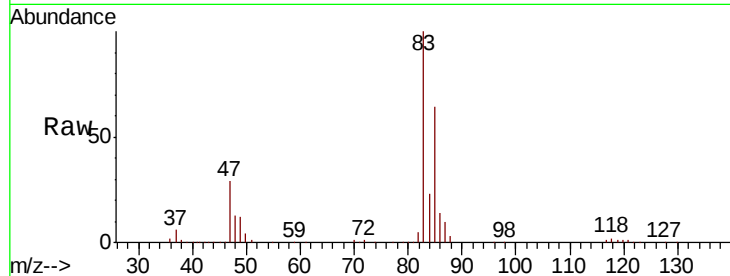




#25
Chloroform
Concen: 49.255 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

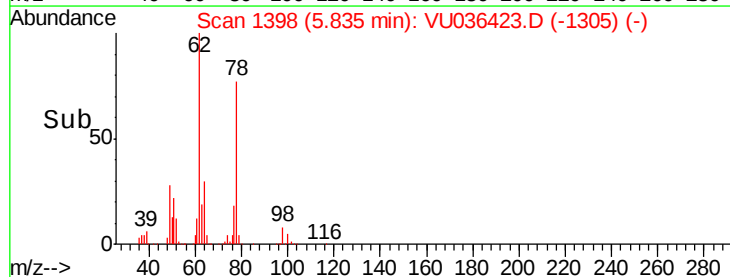
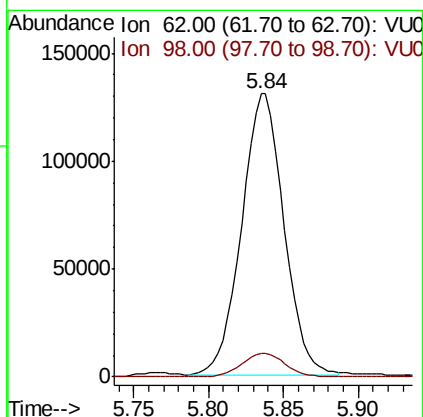
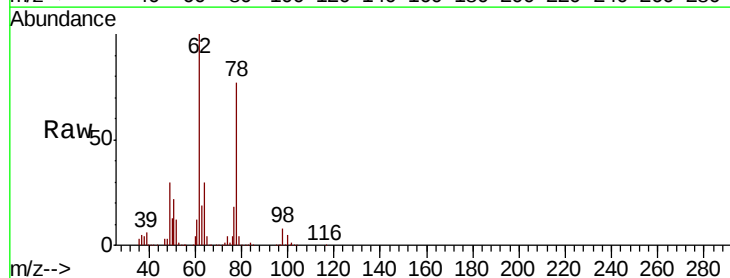
Instrument :
MSVOA_U
ClientSampleId :

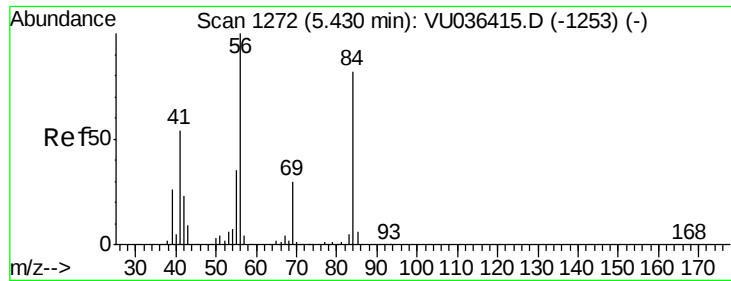
Tot Ion: 83 Resp: 331014
Ion Ratio Lower Upper
83 100
85 63.8 43.9 81.5



#27
1,2-Dichloroethane
Concen: 49.278 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Tgt Ion: 62 Resp: 256000
Ion Ratio Lower Upper
62 100
98 8.2 7.3 10.9

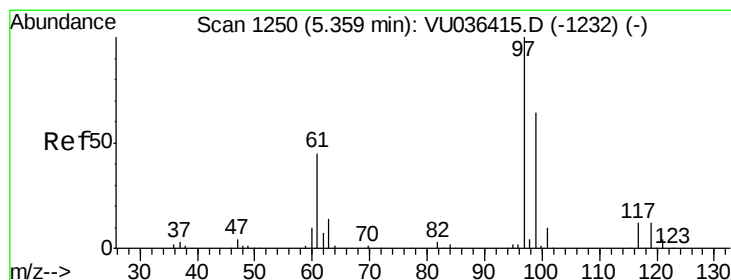
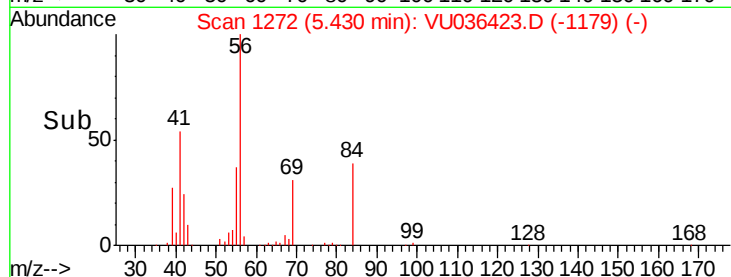
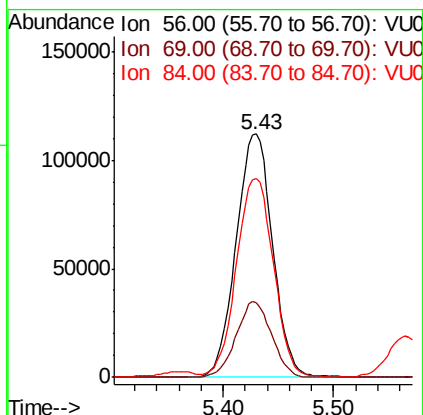
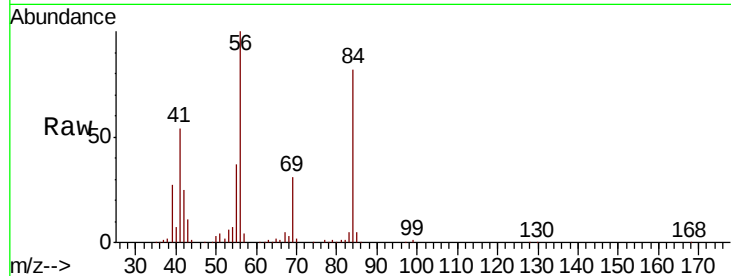




#29
Cyclohexane
Concen: 44.893 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

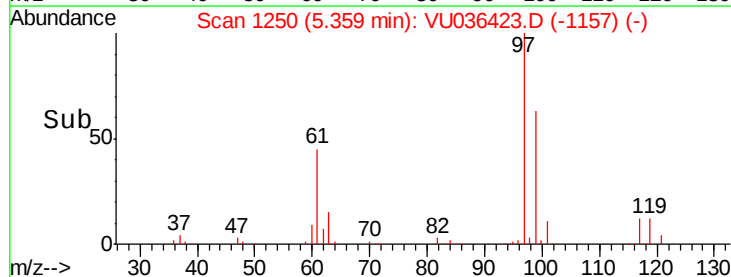
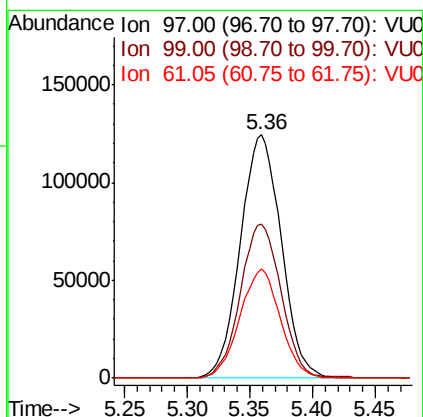
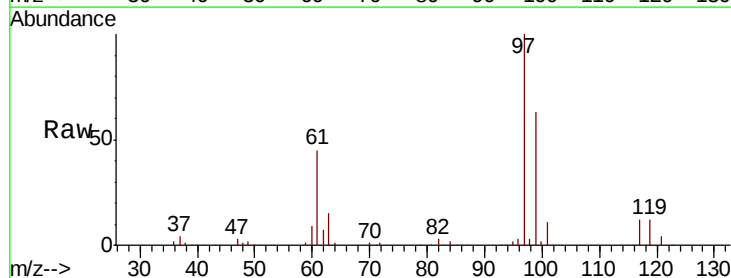
Instrument :
MSVOA_U
ClientSampled :

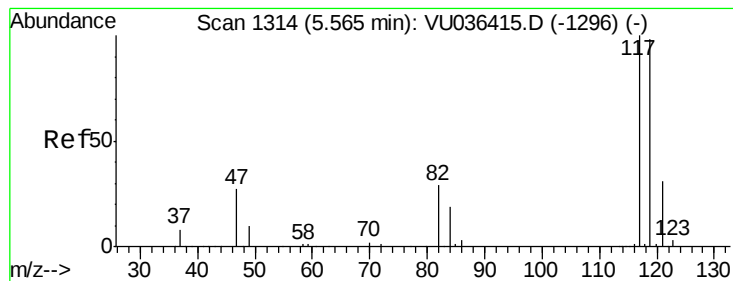
Tot Ion: 56 Resp: 256375
Ion Ratio Lower Upper
56 100
69 30.3 24.8 37.2
84 82.2 67.4 101.2



#30
1,1,1-Trichloroethane
Concen: 46.687 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Tgt Ion: 97 Resp: 282031
Ion Ratio Lower Upper
97 100
99 63.0 51.0 76.4
61 44.4 34.7 52.1





#31

Carbon tetrachloride

Concen: 45.339 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

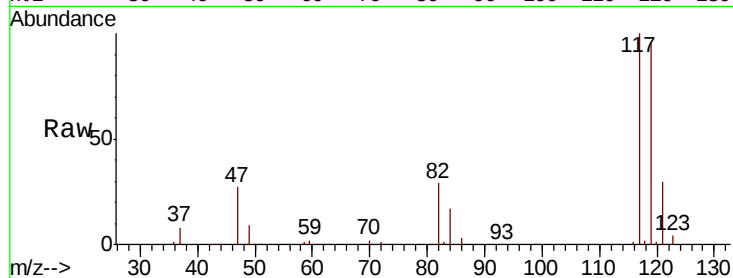
ClientSampleId :

Tot Ion:117 Resp: 237418

Ion Ratio Lower Upper

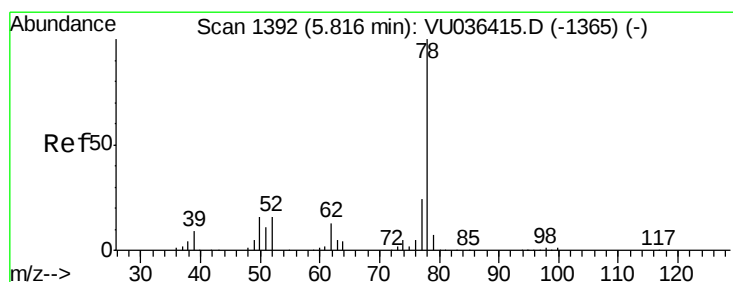
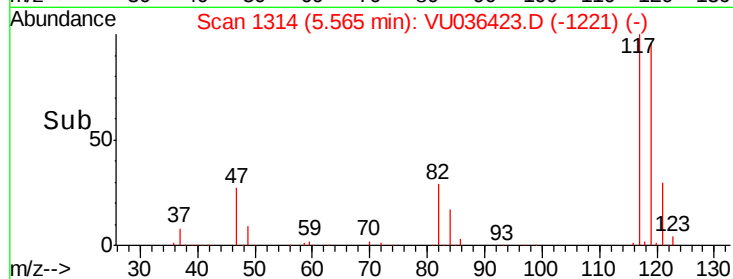
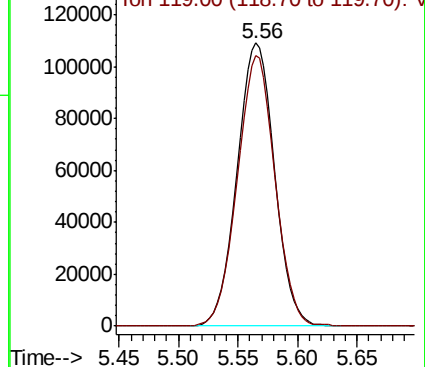
117 100

119 96.1 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 45.819 ug/L

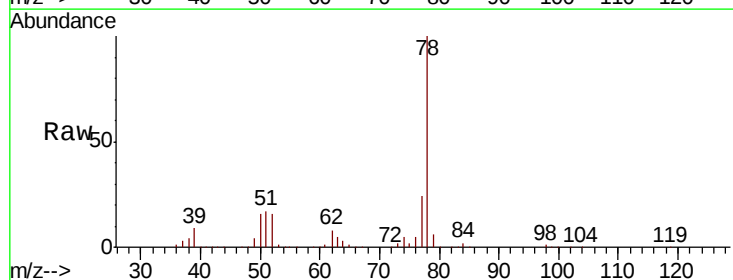
RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

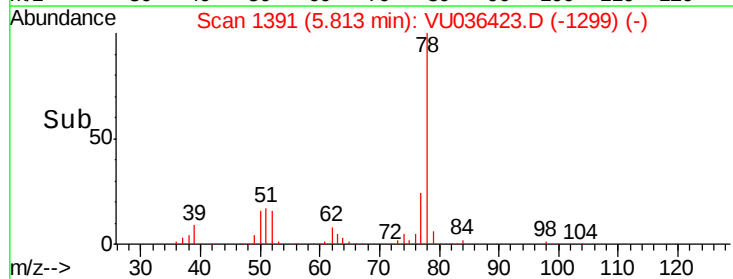
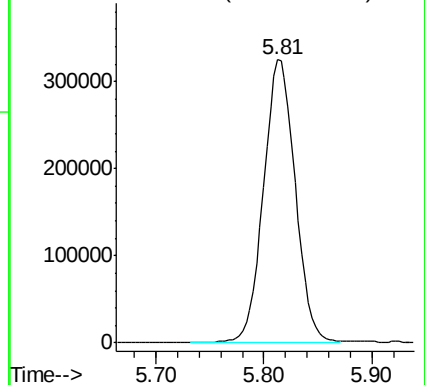
Lab File: VU036423.D

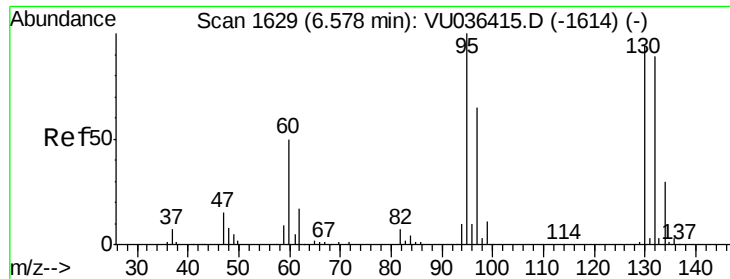
Acq: 09 Jan 2020 17:13

Tgt Ion: 78 Resp: 663400



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.377 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 176842

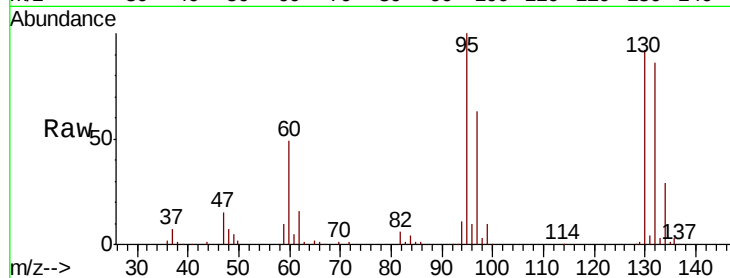
Ion Ratio Lower Upper

95 100

97 63.1 44.5 82.7

132 86.4 64.5 119.9

130 91.7 66.6 123.8

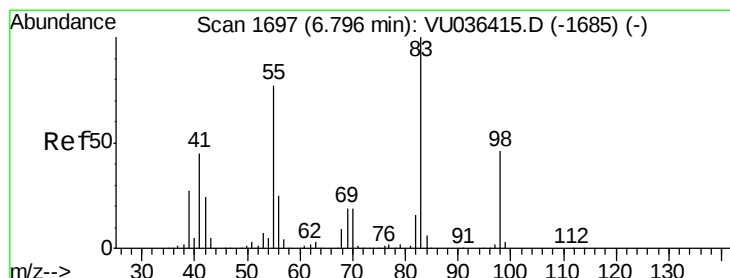
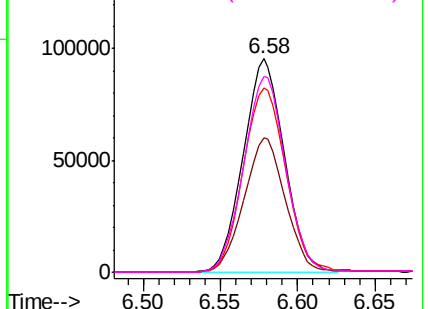
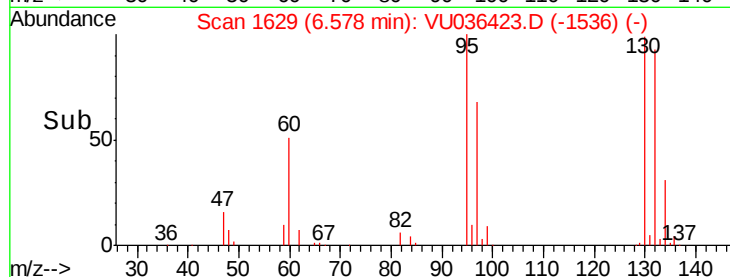


Abundance Ion 95.00 (94.70 to 95.70): VU036423.D (-1614) (-)

Ion 97.00 (96.70 to 97.70): VU036423.D (-1614) (-)

Ion 132.00 (131.70 to 132.70): VU036423.D (-1614) (-)

Ion 130.00 (129.70 to 130.70): VU036423.D (-1614) (-)



#35

Methylcyclohexane

Concen: 44.149 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

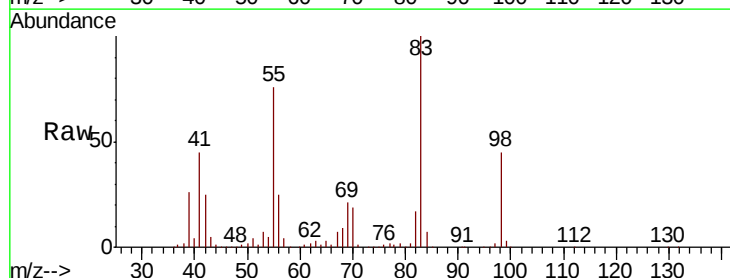
Tgt Ion: 83 Resp: 263035

Ion Ratio Lower Upper

83 100

55 75.0 60.0 90.0

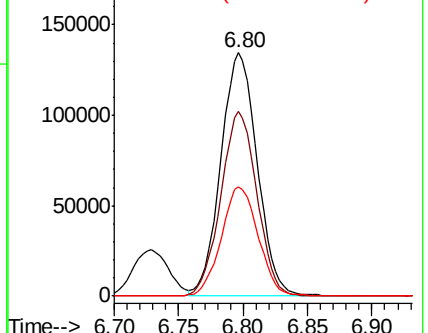
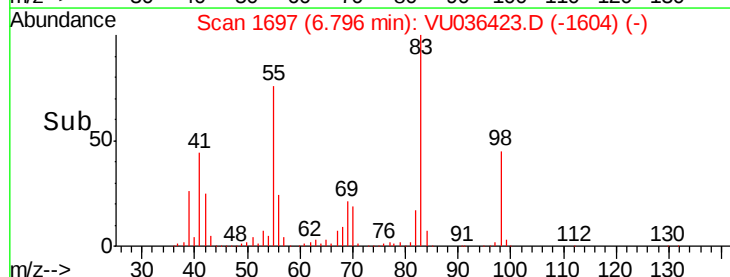
98 45.7 36.2 54.4

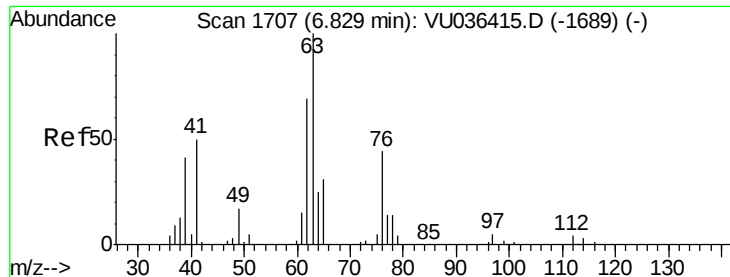


Abundance Ion 83.00 (82.70 to 83.70): VU036423.D (-1604) (-)

Ion 55.00 (54.70 to 55.70): VU036423.D (-1604) (-)

Ion 98.00 (97.70 to 98.70): VU036423.D (-1604) (-)

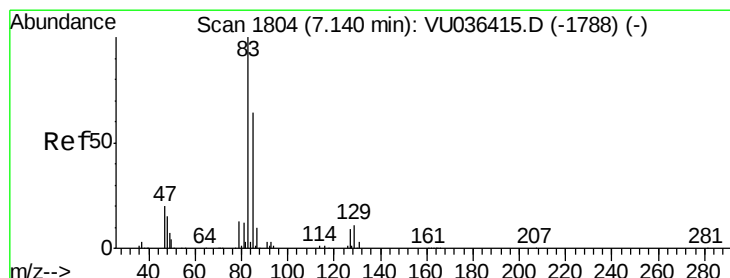
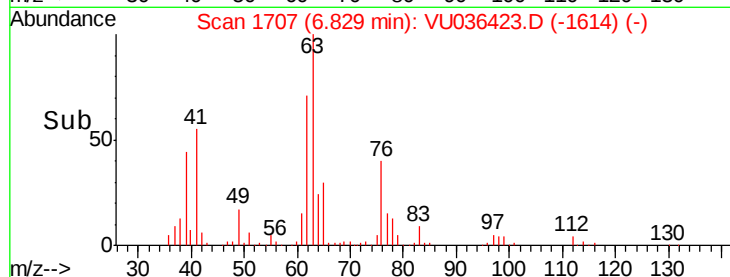
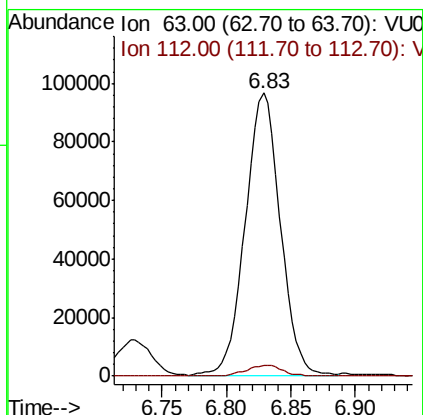
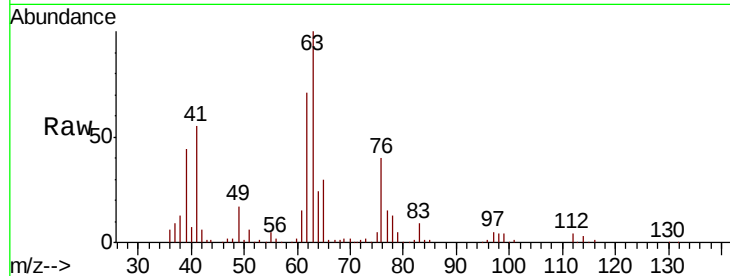




#37
 1,2-Dichloropropane
 Concen: 46.619 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

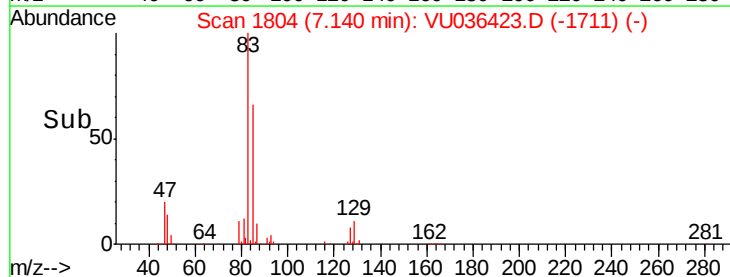
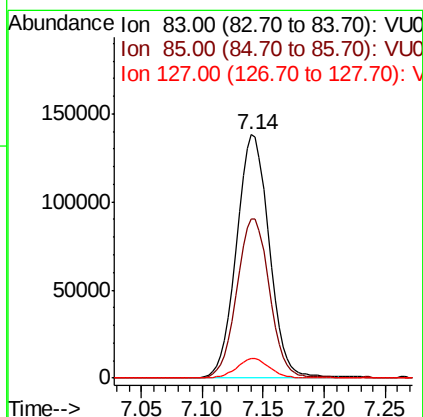
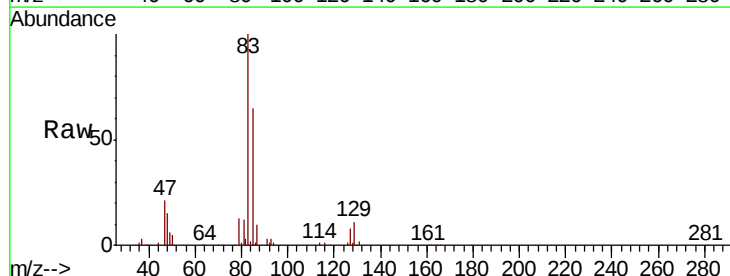
Instrument :
 MSVOA_U
 ClientSampled :

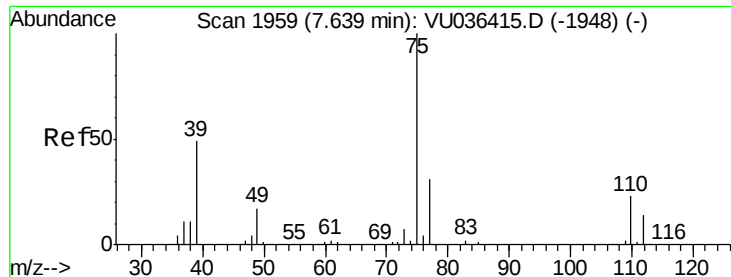
Tot Ion: 63 Resp: 182774
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#38
 Bromodichloromethane
 Concen: 46.415 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Tgt Ion: 83 Resp: 256724
 Ion Ratio Lower Upper
 83 100
 85 65.4 45.3 84.1
 127 8.1 6.8 10.2

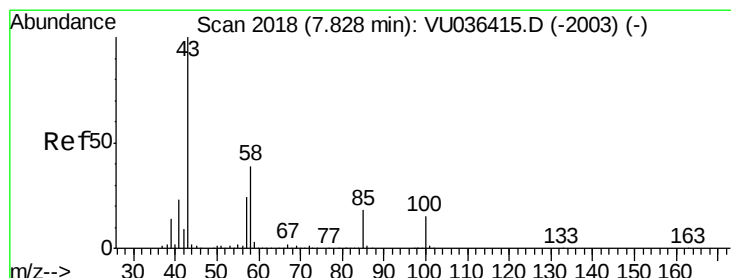
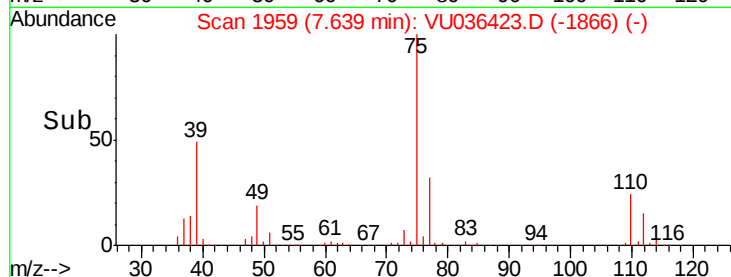
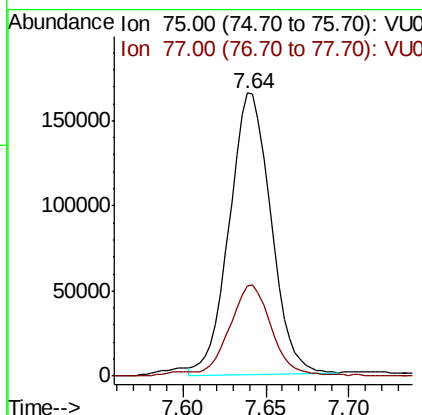
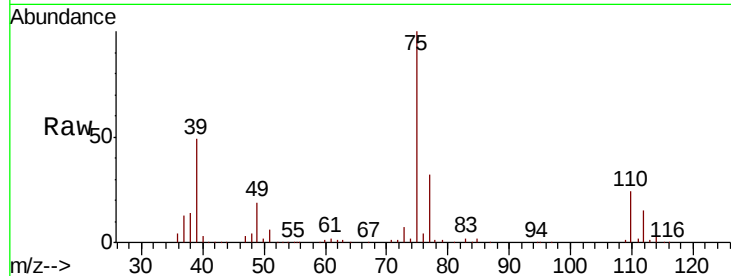




#39
 cis-1,3-Dichloropropene
 Concen: 43.758 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

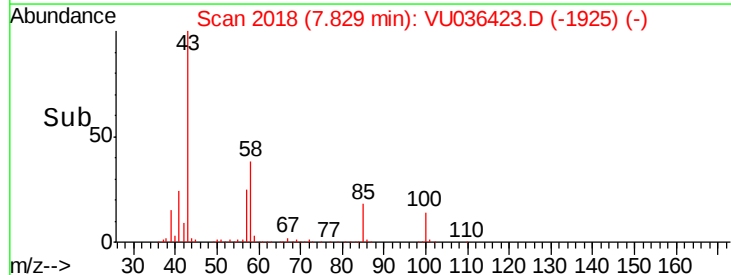
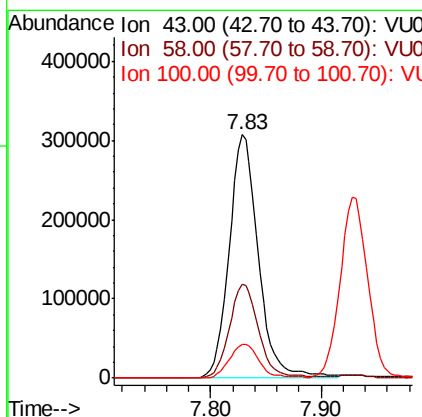
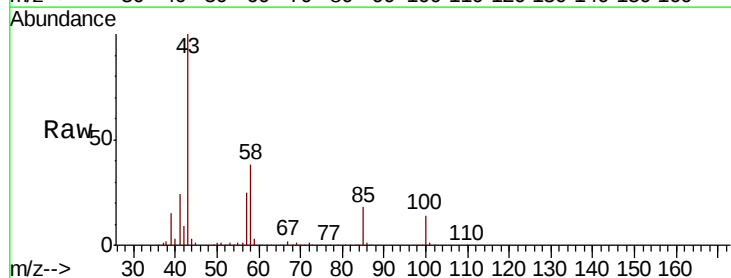
Instrument :
 MSVOA_U
 ClientSampleId :

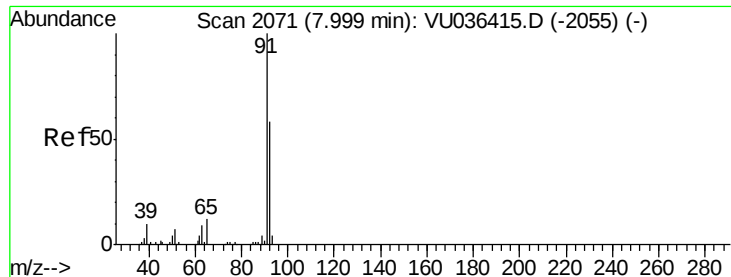
Tot Ion: 75 Resp: 287203
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 84.682 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Tgt Ion: 43 Resp: 564179
 Ion Ratio Lower Upper
 43 100
 58 38.8 31.6 47.4
 100 14.3 11.6 17.4





#42

Toluene

Concen: 46.344 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

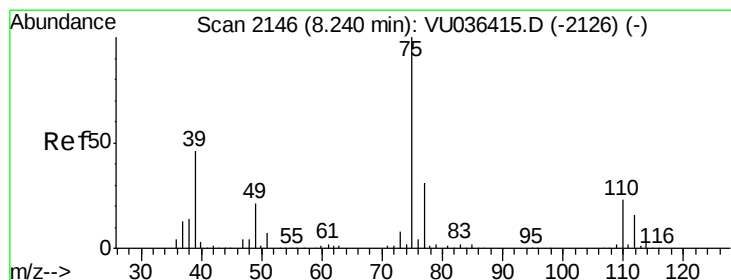
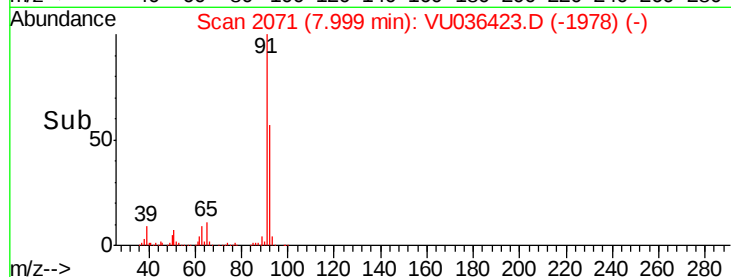
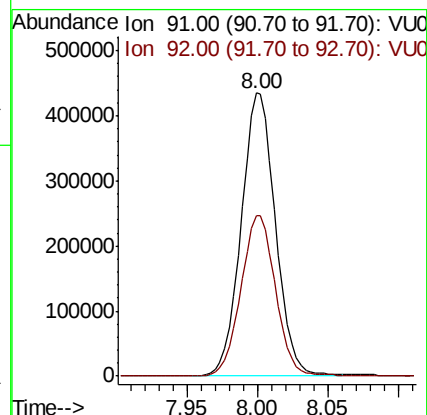
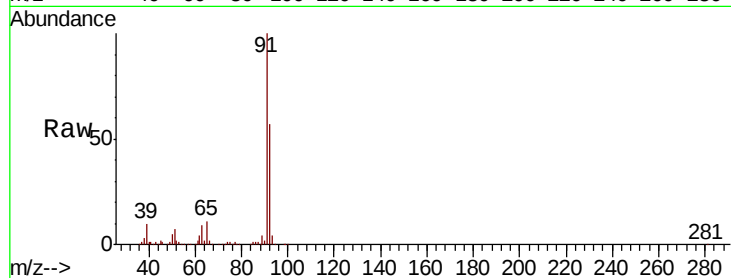
ClientSampled :

Tot Ion: 91 Resp: 738878

Ion Ratio Lower Upper

91 100

92 56.8 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 45.572 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU036423.D

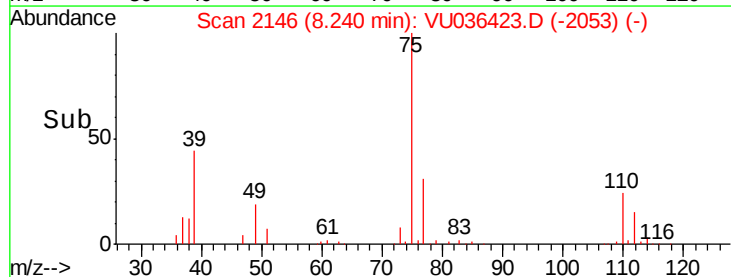
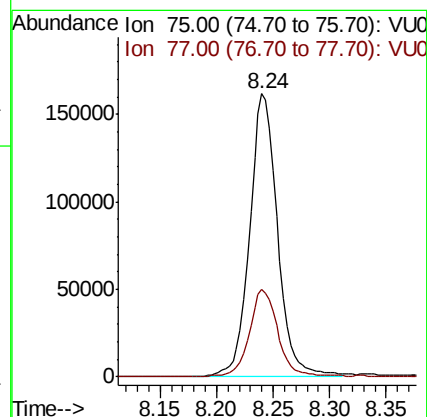
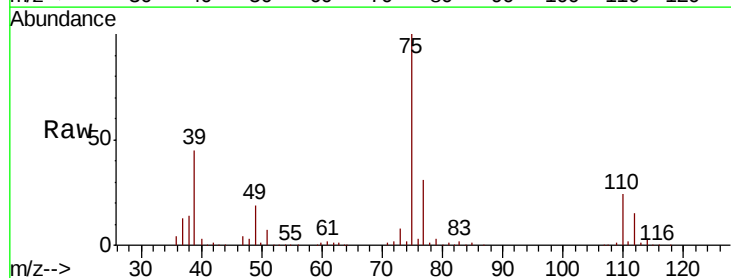
Acq: 09 Jan 2020 17:13

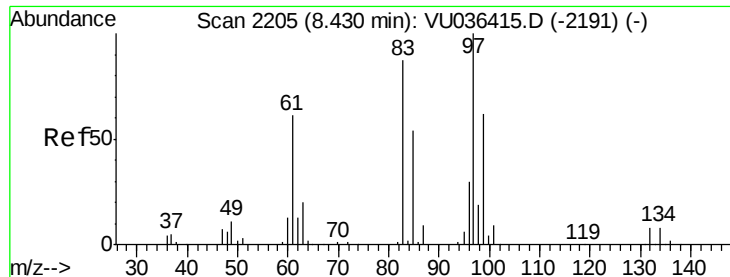
Tgt Ion: 75 Resp: 278650

Ion Ratio Lower Upper

75 100

77 30.8 22.5 41.9

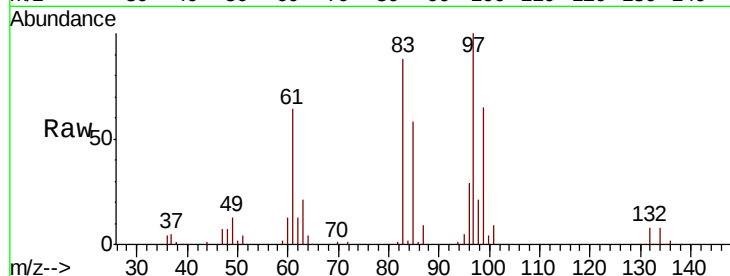




#45
 1,1,2-Trichloroethane
 Concen: 48.621 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	177843
Ion	Ratio	Lower	Upper
97	100		
99	64.6	44.2	82.2
83	88.4	62.5	116.1
85	57.8	38.1	70.7



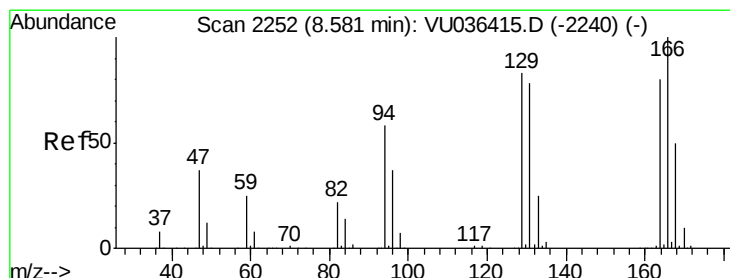
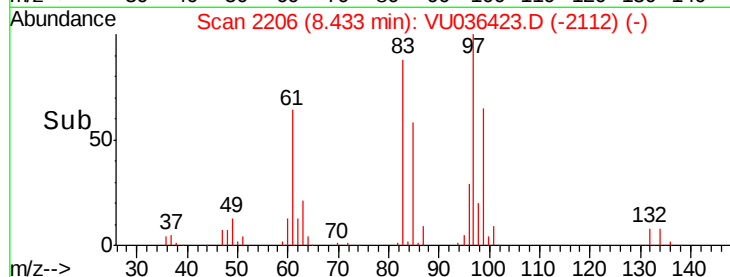
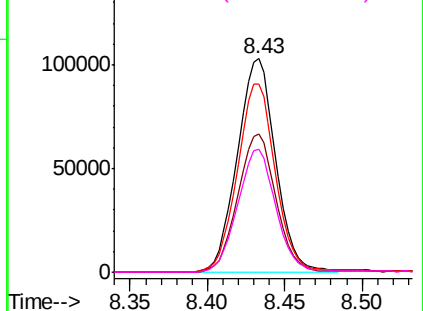
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

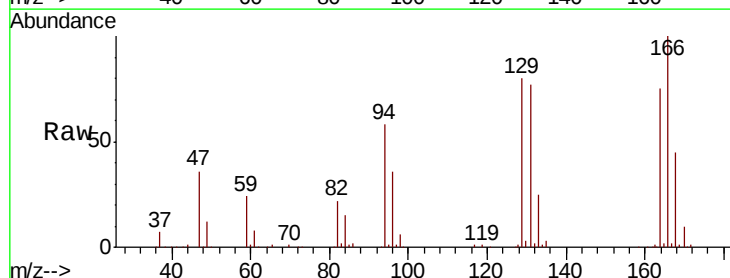
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 44.522 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Tgt Ion:	164	Resp:	119572
Ion	Ratio	Lower	Upper
164	100		
129	105.9	70.0	130.0
131	102.4	70.1	130.1
166	132.5	87.2	161.9



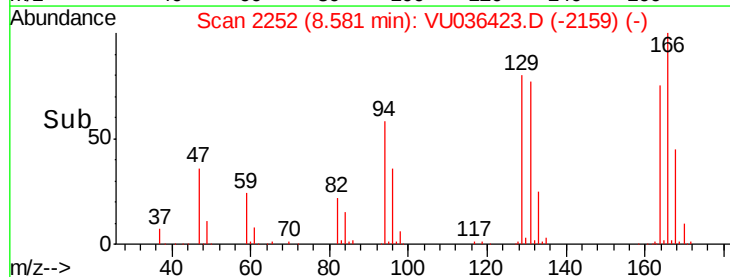
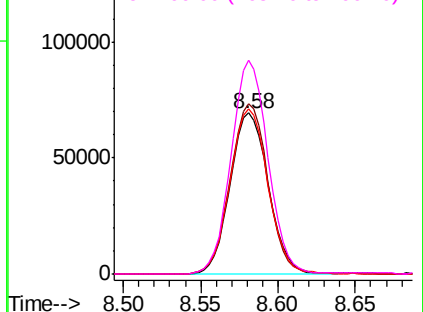
Abundance

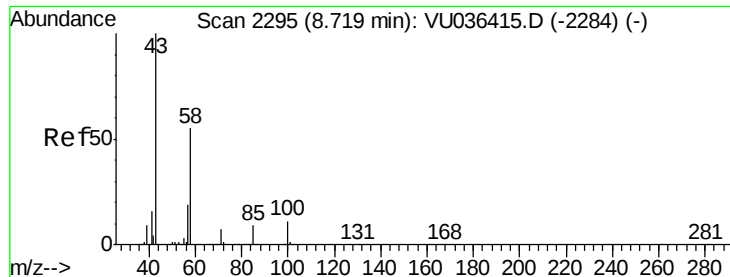
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

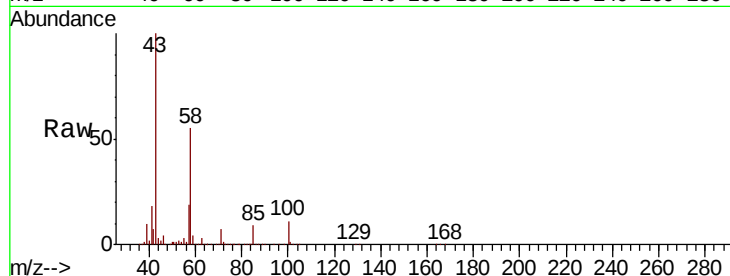




#48
2-Hexanone
Concen: 86.806 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.5	42.2	63.4
57	16.8	14.8	22.2
100	10.4	8.8	13.2

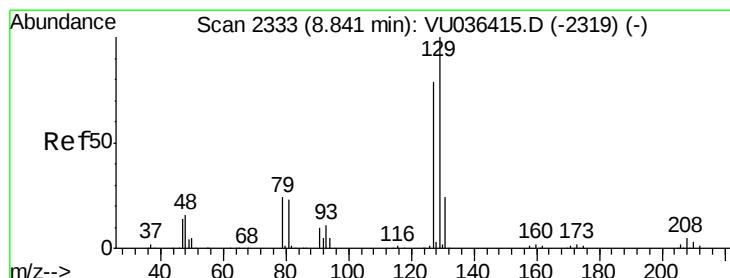
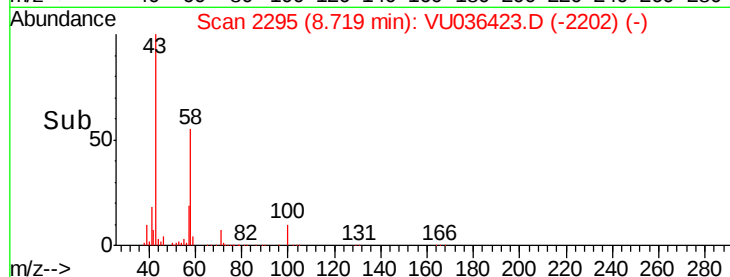
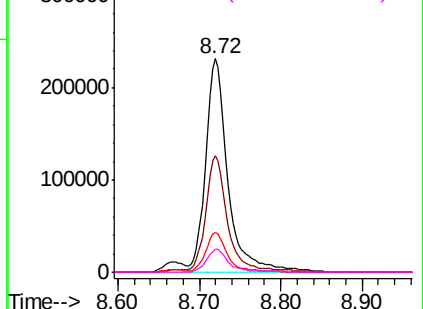


Abundance Ion 43.00 (42.70 to 43.70): VU036423.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VU036423.D (-2295) (-)

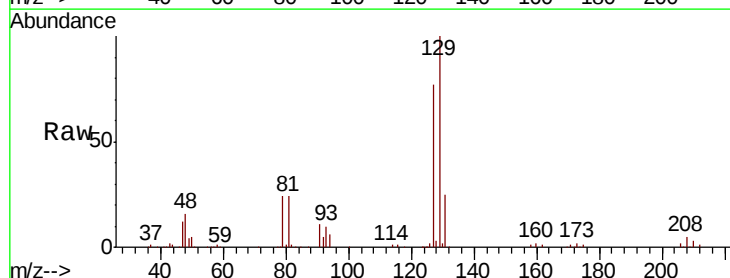
Ion 57.00 (56.70 to 57.70): VU036423.D (-2295) (-)

Ion 100.00 (99.70 to 100.70): VU036423.D (-2295) (-)



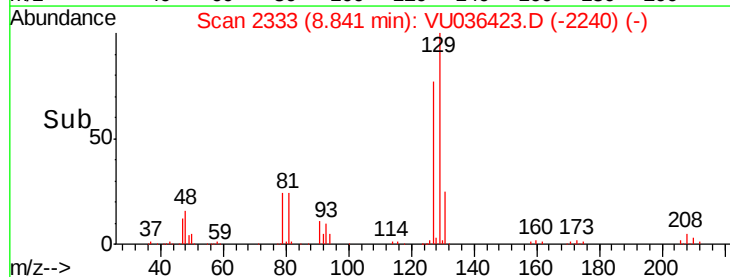
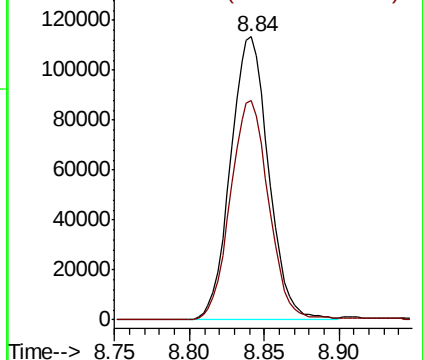
#49
Dibromochloromethane
Concen: 44.830 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

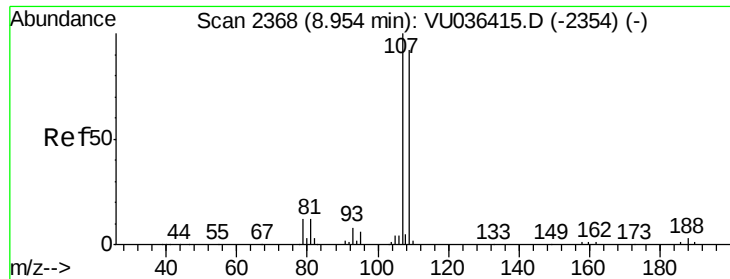
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	54.8	101.8



Abundance Ion 129.00 (128.70 to 129.70): VU036423.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): VU036423.D (-2333) (-)

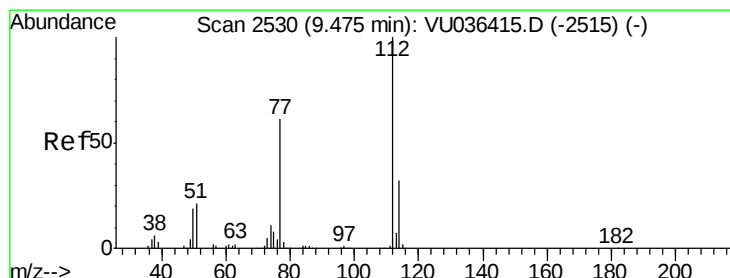
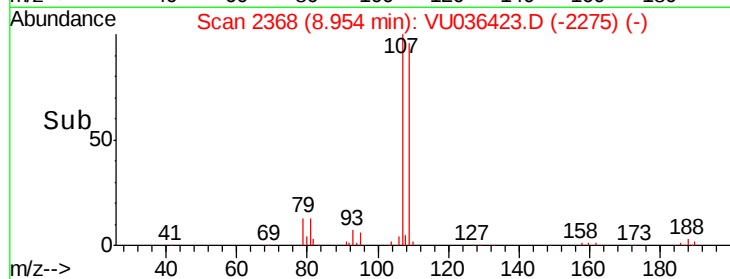
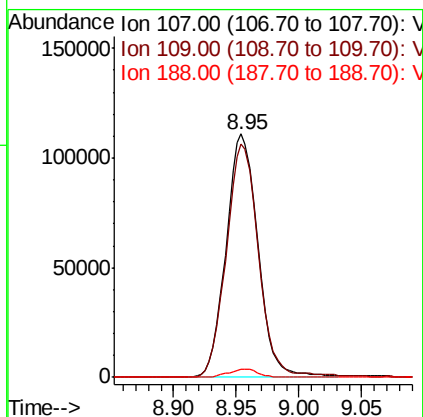
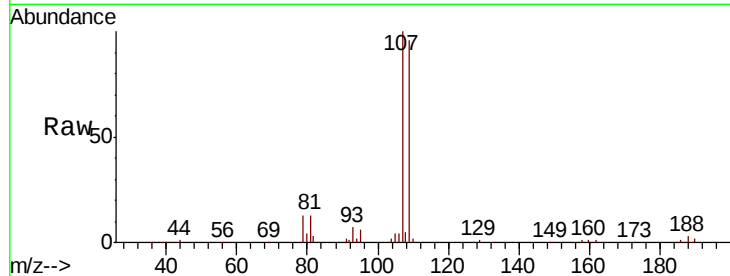




#50
1,2-Dibromoethane
Concen: 46.272 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

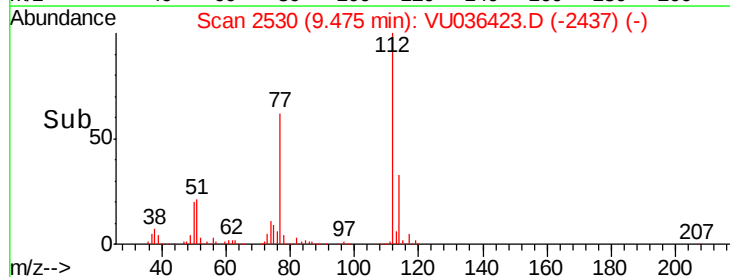
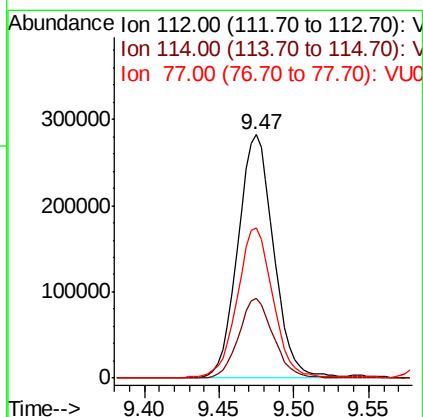
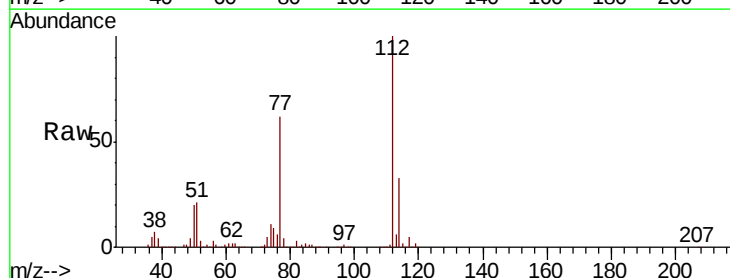
Instrument :
MSVOA_U
ClientSampled :

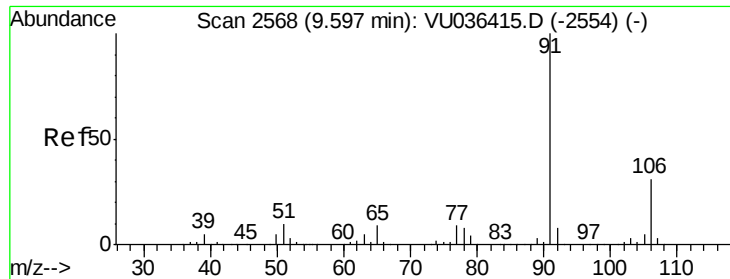
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.9	67.3	124.9
188	3.2	2.6	3.8



#51
Chlorobenzene
Concen: 46.686 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036423.D
Acq: 09 Jan 2020 17:13

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.9	22.5	41.7
77	61.5	48.7	73.1





#52

Ethylbenzene

Concen: 46.697 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

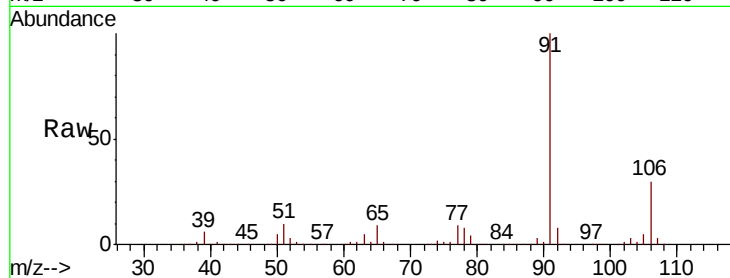
ClientSampleId :

Tot Ion: 91 Resp: 847362

Ion Ratio Lower Upper

91 100

106 30.4 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU036415.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU036415.D (-2554) (-)

9.60

500000

400000

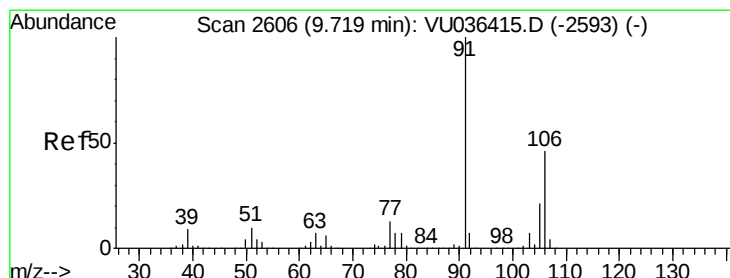
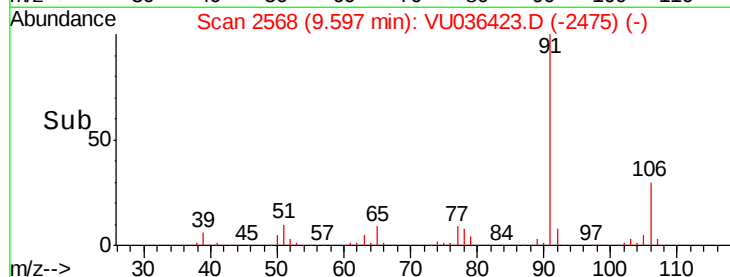
300000

200000

100000

0

Time--> 9.50 9.55 9.60 9.65



#53

m,p-Xylene

Concen: 45.707 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036423.D

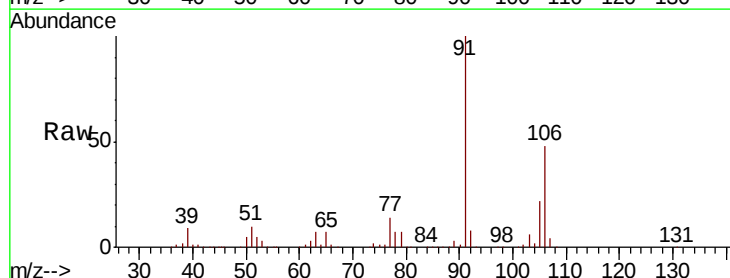
Acq: 09 Jan 2020 17:13

Tgt Ion: 106 Resp: 307659

Ion Ratio Lower Upper

106 100

91 208.0 146.8 272.6



Abundance Ion 106.00 (105.70 to 106.70): VU036415.D (-2593) (-)

Ion 91.00 (90.70 to 91.70): VU036415.D (-2593) (-)

9.72

400000

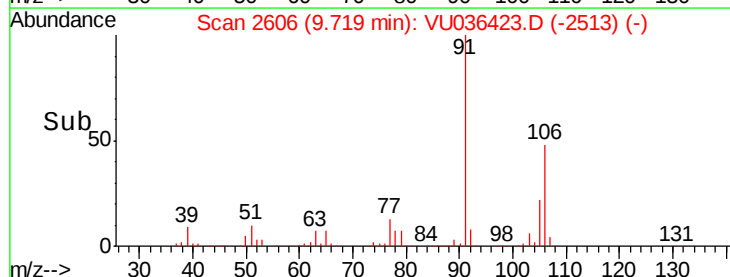
300000

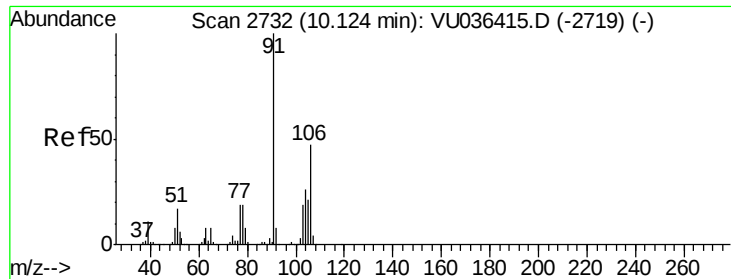
200000

100000

0

Time--> 9.65 9.70 9.75





#54

o-xylene

Concen: 46.571 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

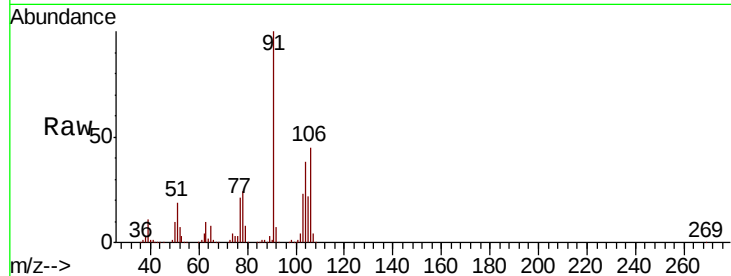
ClientSampleId :

Tot Ion:106 Resp: 314535

Ion Ratio Lower Upper

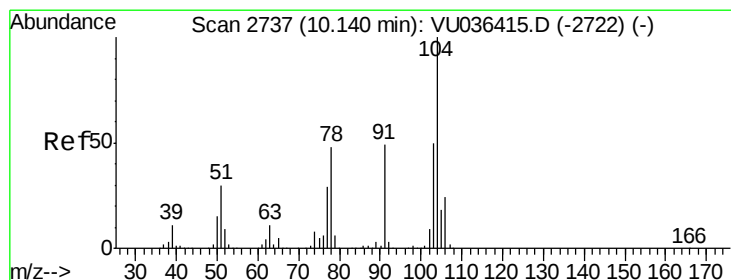
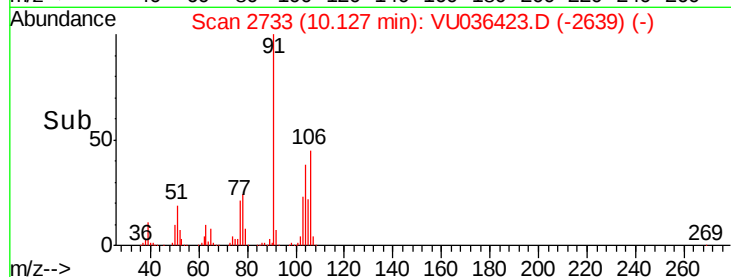
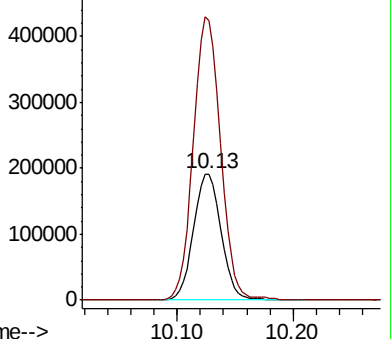
106 100

91 220.9 156.4 290.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 45.818 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036423.D

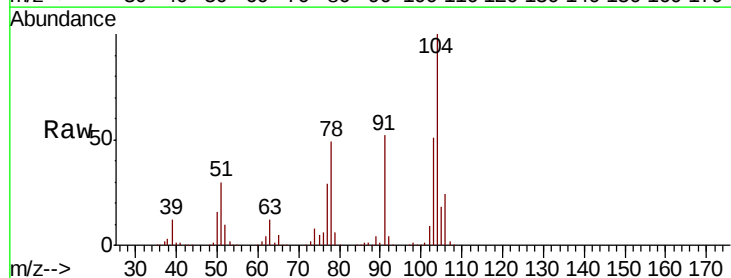
Acq: 09 Jan 2020 17:13

Tgt Ion:104 Resp: 523228

Ion Ratio Lower Upper

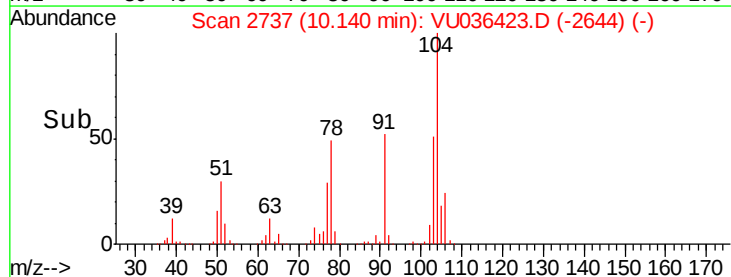
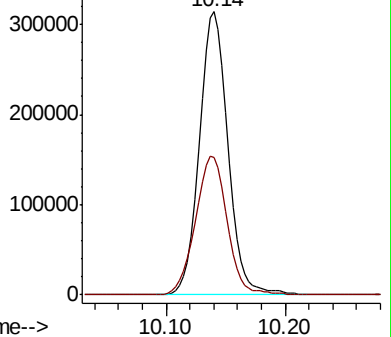
104 100

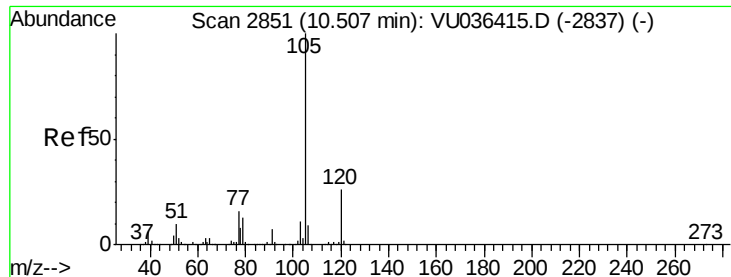
78 48.7 33.9 63.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.772 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

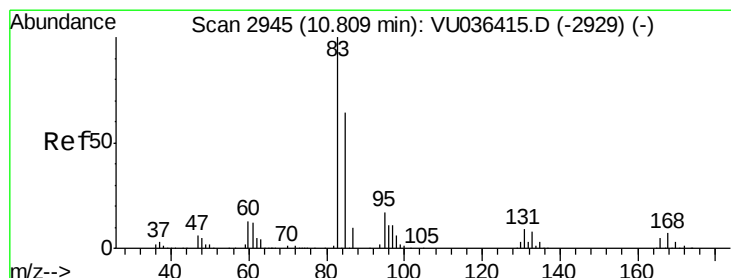
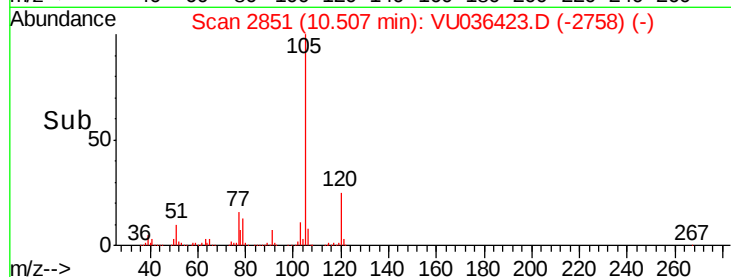
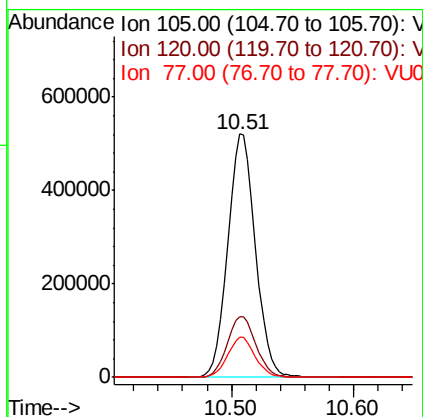
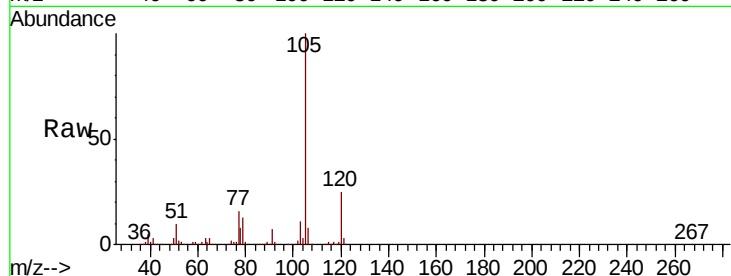
Tot Ion: 105 Resp: 823346

Ion Ratio Lower Upper

105 100

120 26.0 21.0 31.4

77 16.5 13.3 19.9



#58

1,1,2,2-Tetrachloroethane

Concen: 45.411 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

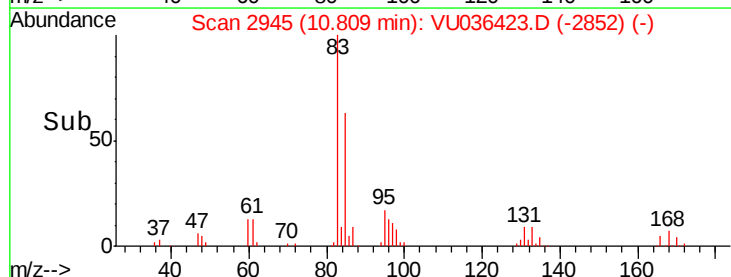
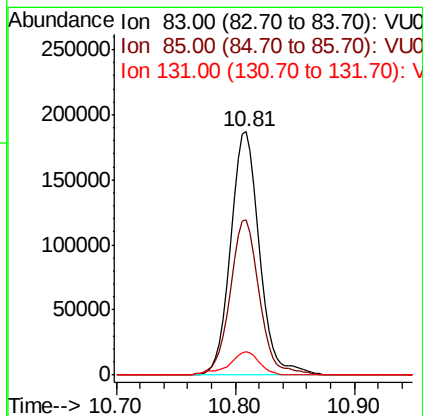
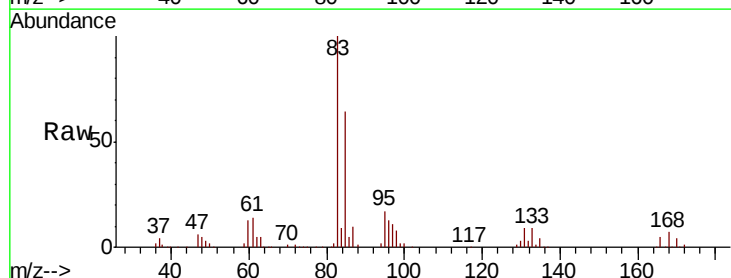
Tgt Ion: 83 Resp: 313970

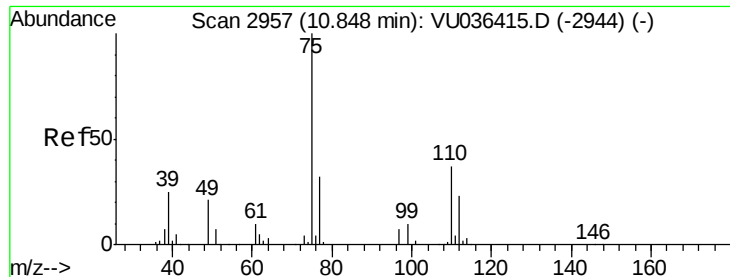
Ion Ratio Lower Upper

83 100

85 63.7 45.3 84.1

131 9.4 7.5 11.3





#59

1,2,3-Trichloropropane

Concen: 46.268 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

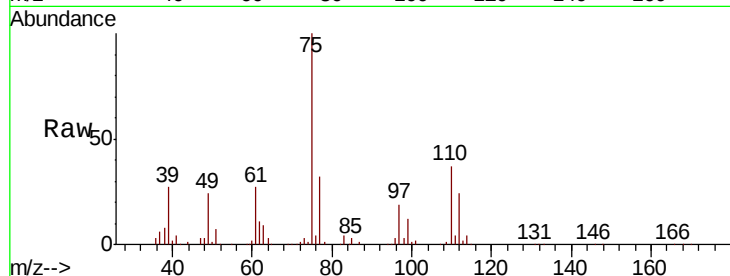
ClientSampleId :

Tot Ion: 75 Resp: 254511

Ion Ratio Lower Upper

75 100

77 32.6 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VU036415.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU036415.D (-2944) (-)

10.85

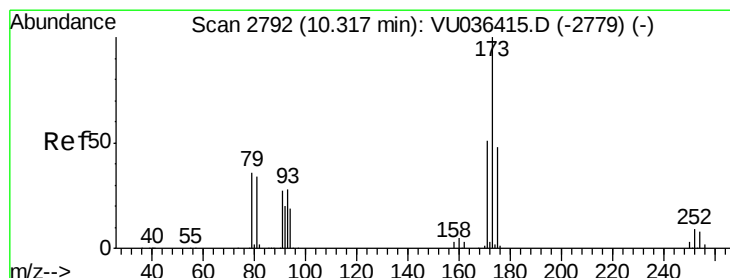
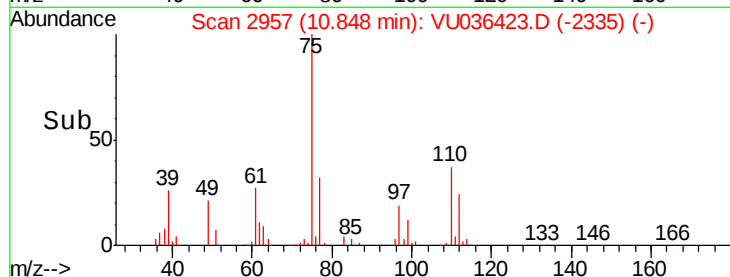
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 40.385 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

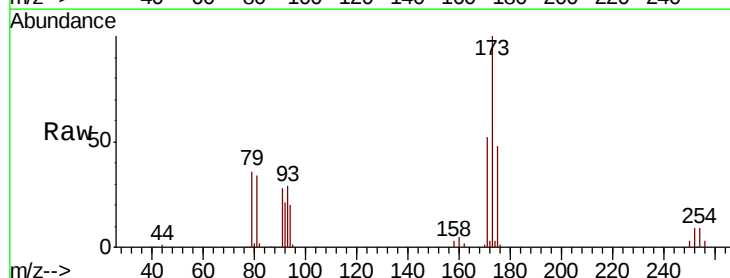
Tgt Ion: 173 Resp: 143659

Ion Ratio Lower Upper

173 100

175 49.5 38.7 58.1

254 8.7 6.9 10.3



Abundance Ion 173.00 (172.70 to 173.70): VU036415.D (-2779) (-)

Ion 175.00 (174.70 to 175.70): VU036415.D (-2779) (-)

Ion 254.00 (253.70 to 254.70): VU036415.D (-2779) (-)

10.32

100000

80000

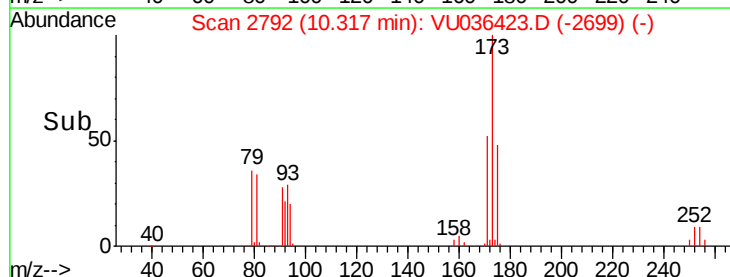
60000

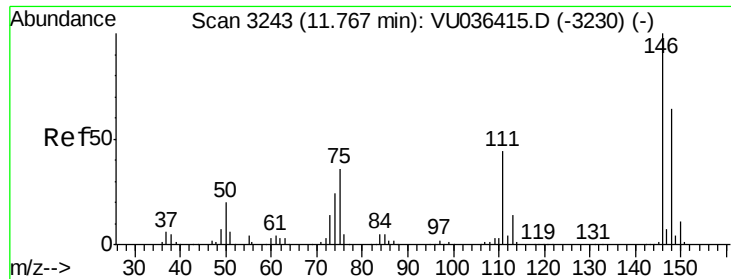
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 45.337 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampled :

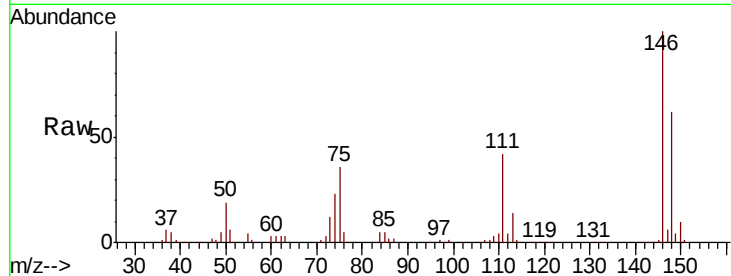
Tot Ion:146 Resp: 350706

Ion Ratio Lower Upper

146 100

111 42.3 29.1 54.1

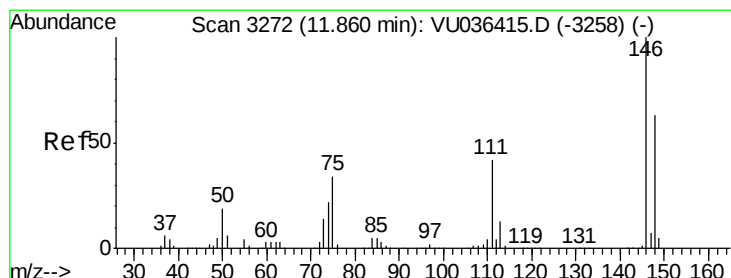
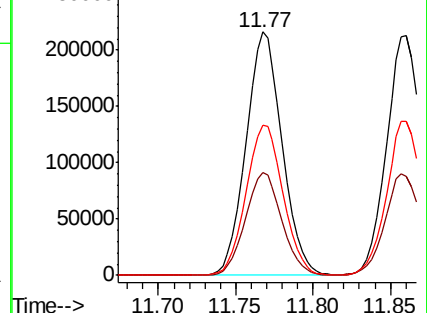
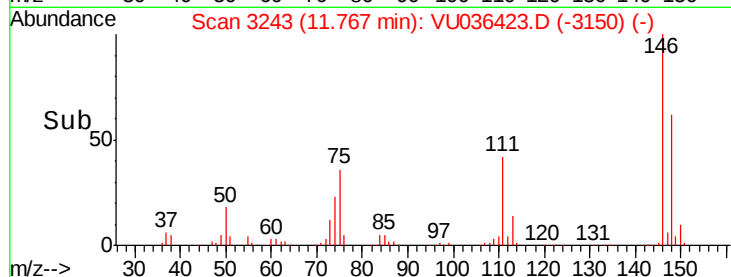
148 61.7 46.9 87.1



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: 44.934 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

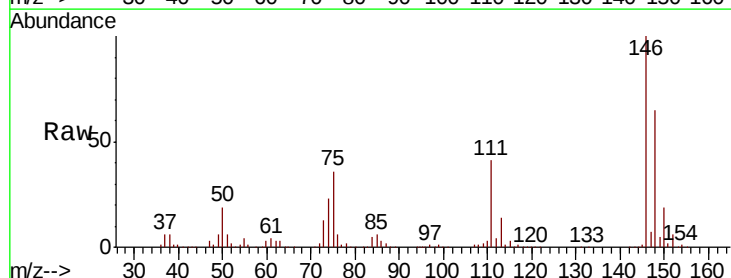
Tgt Ion:146 Resp: 344794

Ion Ratio Lower Upper

146 100

111 41.3 29.7 55.1

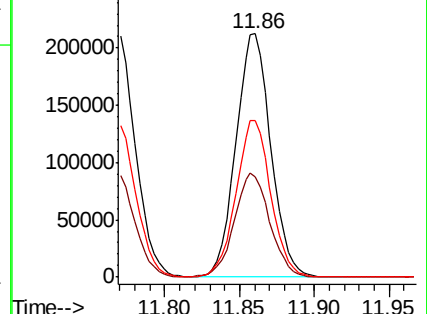
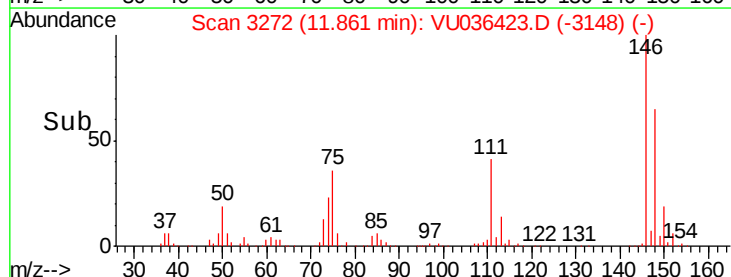
148 64.6 45.6 84.6

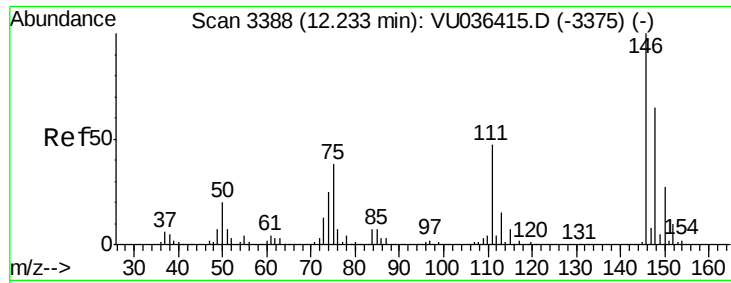


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

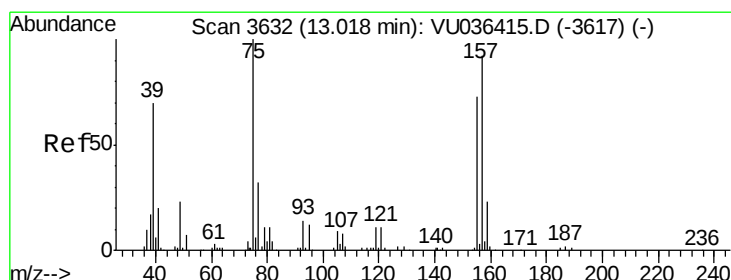
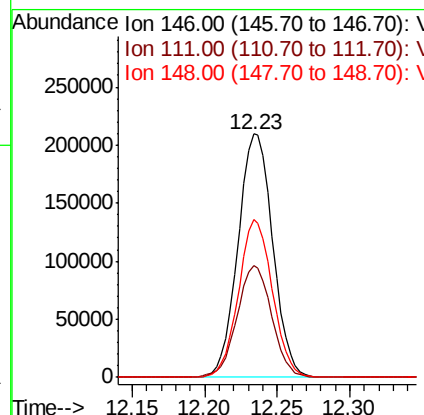
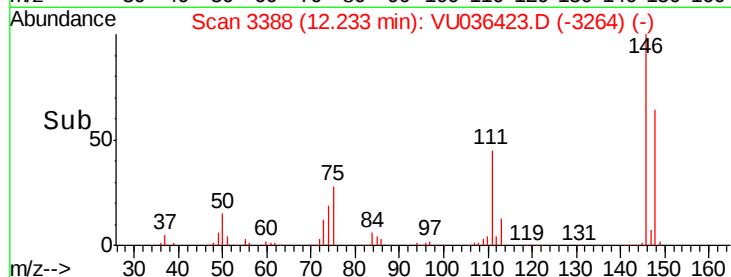
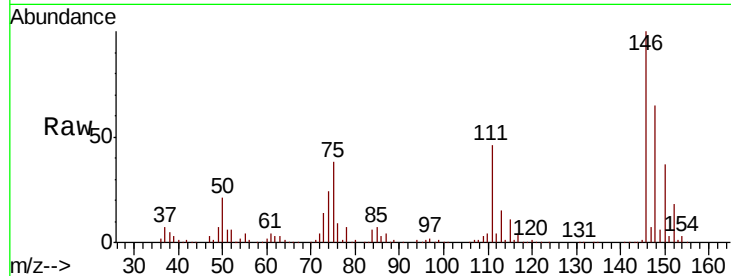




#65
 1,2-Dichlorobenzene
 Concen: 44.946 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

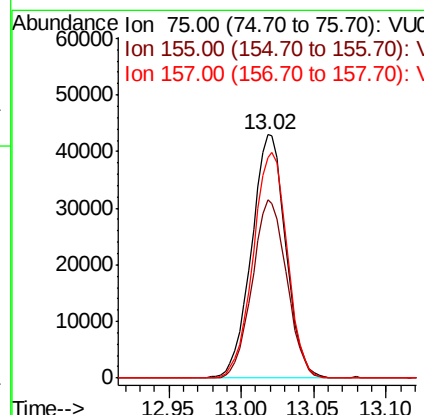
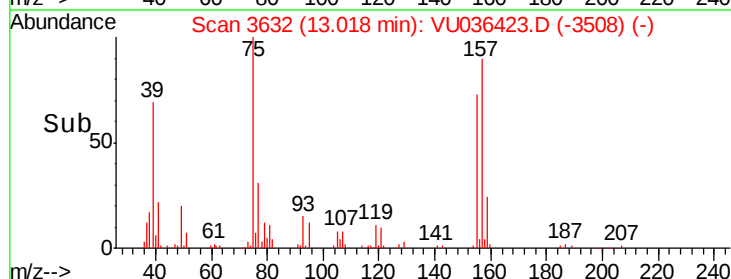
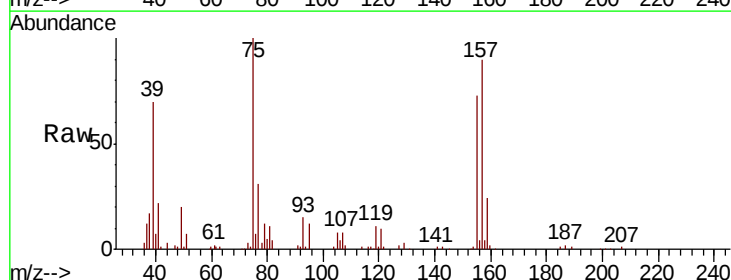
Instrument :
 MSVOA_U
 ClientSampleId :

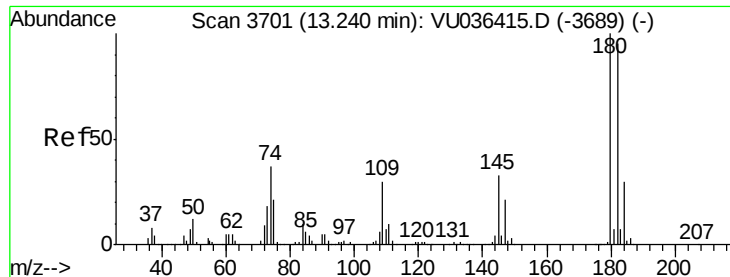
Tot Ion:146 Resp: 348356
 Ion Ratio Lower Upper
 146 100
 111 45.9 33.4 50.2
 148 64.7 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 39.106 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Tgt Ion: 75 Resp: 70725
 Ion Ratio Lower Upper
 75 100
 155 73.2 61.8 92.6
 157 90.4 84.2 126.2

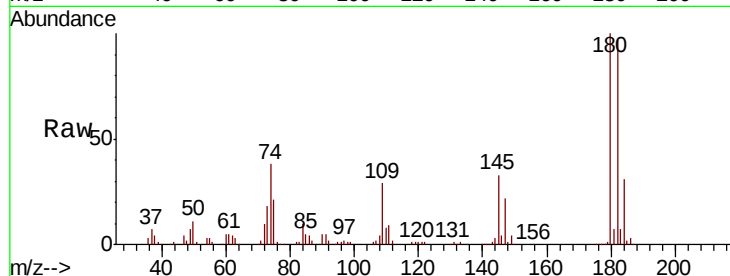




#67
 1,3,5-Trichlorobenzene
 Concen: 41.215 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	74.6	112.0
184	29.6	23.9	35.9
145	33.3	25.4	38.2



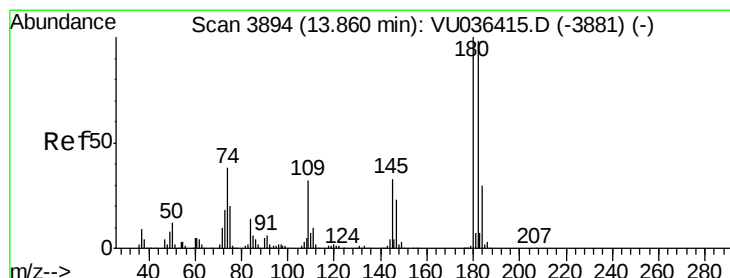
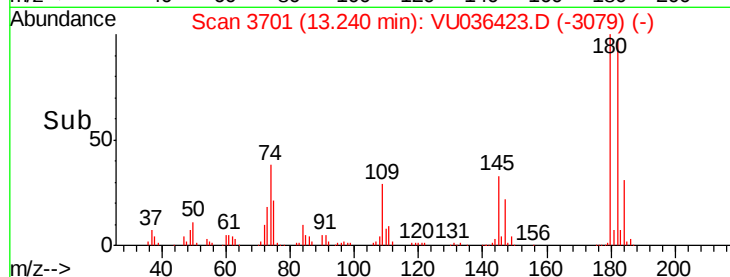
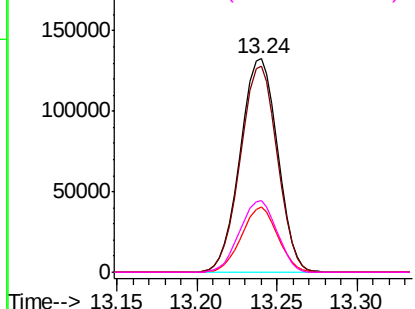
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

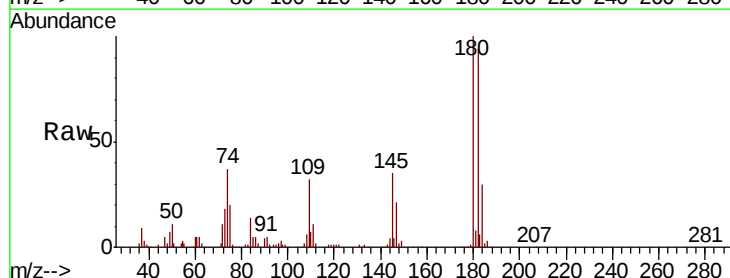
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 40.427 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036423.D
 Acq: 09 Jan 2020 17:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	78.0	117.0
145	34.1	26.0	39.0

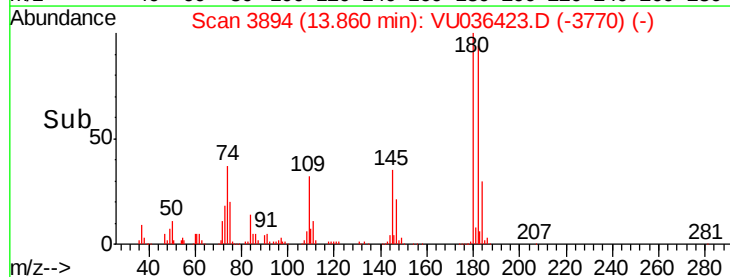
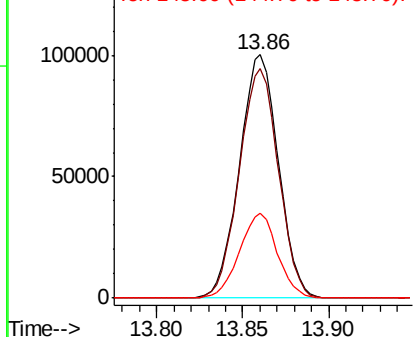


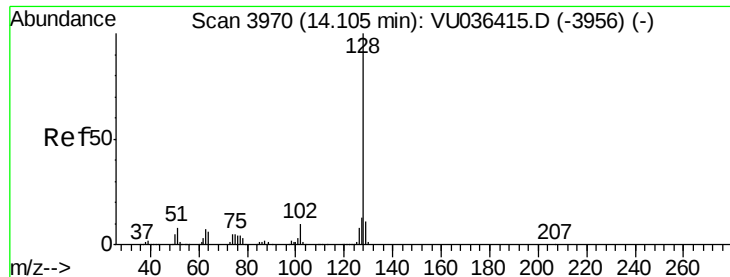
Abundance

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





#69

Naphthalene

Concen: 36.161 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

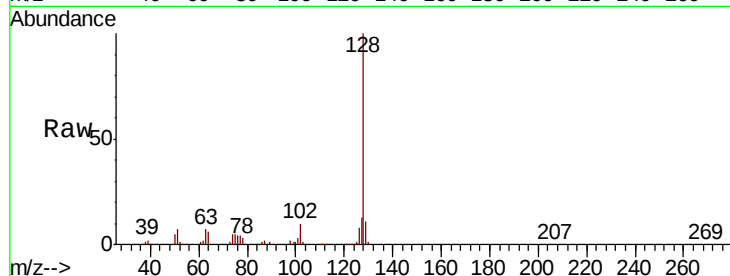
Tot Ion:128 Resp: 483726

Ion Ratio Lower Upper

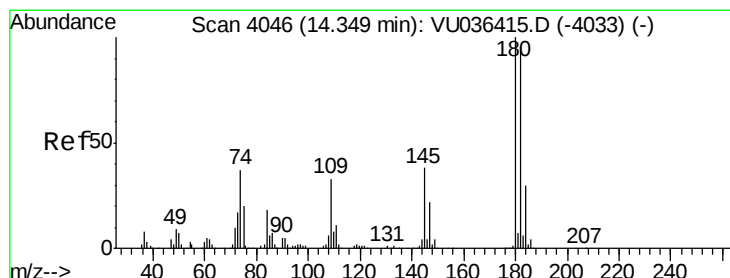
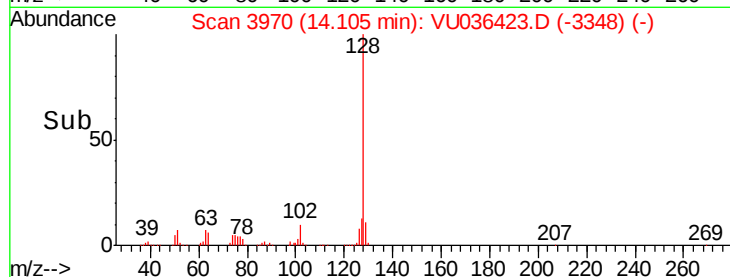
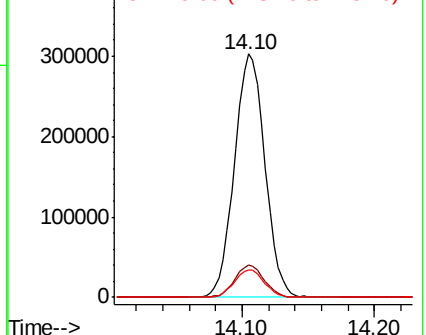
128 100

127 12.8 10.5 15.7

129 11.1 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: 39.985 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036423.D

Acq: 09 Jan 2020 17:13

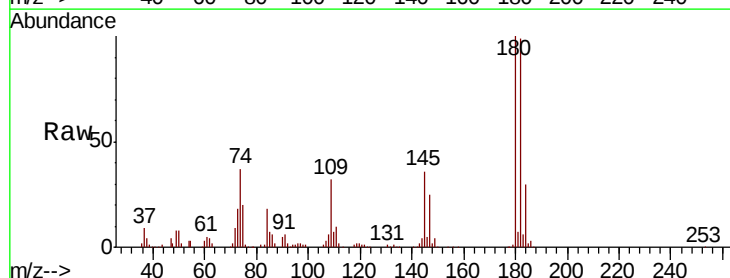
Tgt Ion:180 Resp: 163473

Ion Ratio Lower Upper

180 100

182 96.0 75.4 113.2

145 35.3 27.1 40.7



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

