

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030220\
 Data File : VU037016.D
 Acq On : 02 Mar 2020 22:11
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 03 03:26:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 03 03:21:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	266575	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	257939	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	111278	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	84004	37.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.04%
7) Chloroethane-d5	1.91	69	79910	43.14	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.28%
11) 1,1-Dichloroethene-d2	2.59	63	161131	42.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.96%
21) 2-Butanone-d5	4.67	46	151266	100.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.74%
24) Chloroform-d	5.10	84	173079	50.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.26%
26) 1,2-Dichloroethane-d4	5.74	65	113187	48.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.86%
32) Benzene-d6	5.76	84	356369	47.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.56%
36) 1,2-Dichloropropane-d6	6.72	67	118808	49.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.32%
41) Toluene-d8	7.92	98	331758	47.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.88%
43) trans-1,3-Dichloropropene-	8.20	79	52586	46.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.64%
47) 2-Hexanone-d5	8.66	63	119725	101.32	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.32%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	180353	52.93	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.86%
64) 1,2-Dichlorobenzene-d4	12.21	152	111795	51.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	113676	50.274	ug/L	100
3) Chloromethane	1.53	50	132779	51.042	ug/L	99
5) Vinyl chloride	1.62	62	136561	50.894	ug/L	100
6) Bromomethane	1.84	94	50395	36.606	ug/L	98
8) Chloroethane	1.93	64	81839	50.881	ug/L	100
9) Trichlorofluoromethane	2.14	101	145853	51.252	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	86966	51.086	ug/L	99
12) 1,1-Dichloroethene	2.60	96	85406	49.603	ug/L	88
13) Acetone	2.66	43	105583	68.357	ug/L	99
14) Carbon disulfide	2.81	76	251016	46.078	ug/L	100
15) Methyl Acetate	2.98	43	117820	50.045	ug/L	99
16) Methylene chloride	3.07	84	109102	51.951	ug/L	98
17) trans-1,2-Dichloroethene	3.38	96	91940	49.707	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	313704	52.176	ug/L	99
19) 1,1-Dichloroethane	3.91	63	190106	52.895	ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	107802	52.124	ug/L	100
22) 2-Butanone	4.75	43	170695	91.645	ug/L	100

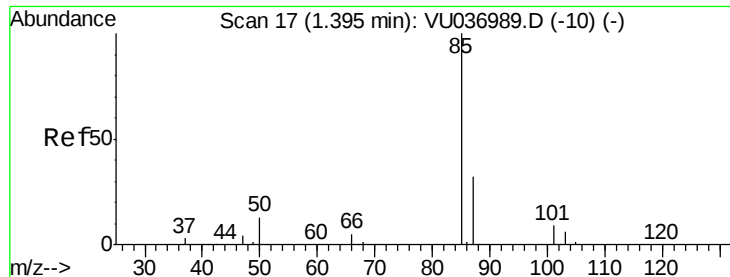
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U030220\
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 Quant Title : VOC Analysis
 QLast Update : Tue Mar 03 03:21:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	49897	53.274	ug/L	96
25) Chloroform	5.13	83	185251	53.421	ug/L	97
27) 1,2-Dichloroethane	5.83	62	153369	54.324	ug/L	99
29) Cyclohexane	5.42	56	163350	47.723	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	144898	52.395	ug/L	99
31) Carbon tetrachloride	5.56	117	112560	51.928	ug/L	98
33) Benzene	5.81	78	422826	51.889	ug/L	100
34) Trichloroethene	6.57	95	106014	52.933	ug/L	99
35) Methylcyclohexane	6.79	83	165315	47.607	ug/L	100
37) 1,2-Dichloropropane	6.82	63	116586	53.137	ug/L	99
38) Bromodichloromethane	7.13	83	137414	53.058	ug/L	100
39) cis-1,3-Dichloropropene	7.63	75	166032	49.125	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	334590	103.492	ug/L	99
42) Toluene	7.99	91	456845	52.623	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	149200	50.889	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	102951	52.766	ug/L	99
46) Tetrachloroethene	8.57	164	66832	50.654	ug/L	97
48) 2-Hexanone	8.71	43	262995	101.939	ug/L	99
49) Dibromochloromethane	8.83	129	98450	53.161	ug/L	98
50) 1,2-Dibromoethane	8.95	107	107242	52.562	ug/L	98
51) Chlorobenzene	9.47	112	270348	52.556	ug/L	99
52) Ethylbenzene	9.59	91	488875	51.946	ug/L	100
53) m,p-Xylene	9.71	106	182637	52.905	ug/L	100
54) o-xylene	10.12	106	181911	52.833	ug/L	100
55) Styrene	10.13	104	302867	53.809	ug/L	100
56) Isopropylbenzene	10.50	105	463697	52.434	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	192449	55.173	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	154703	54.810	ug/L	98
61) Bromoform	10.31	173	68310	54.296	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	193357	53.564	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	187725	52.636	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	198037	54.944	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	37307	52.173	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	121740	53.131	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	91893	53.529	ug/L	99
69) Naphthalene	14.12	128	147911	48.809	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	92803	54.097	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.274 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

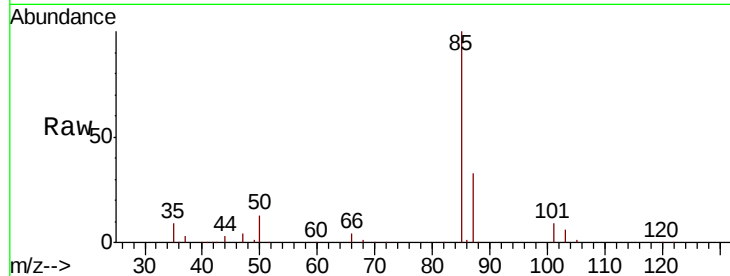
ClientSampled :

Tot Ion: 85 Resp: 113676

Ion Ratio Lower Upper

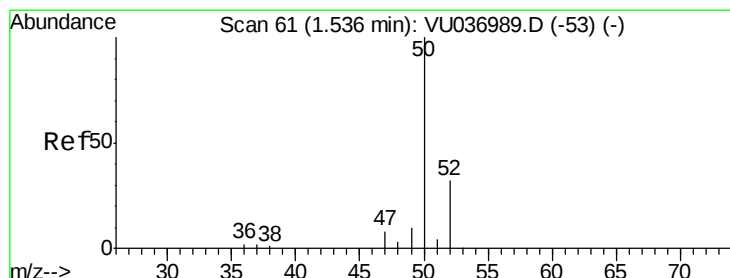
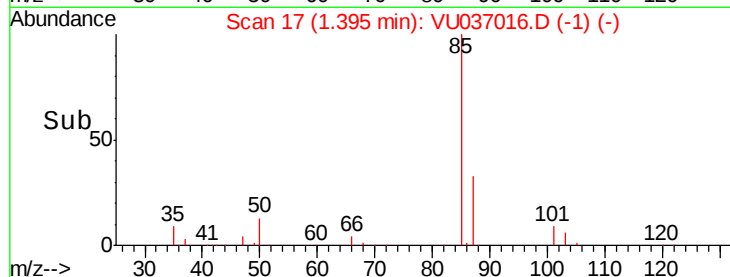
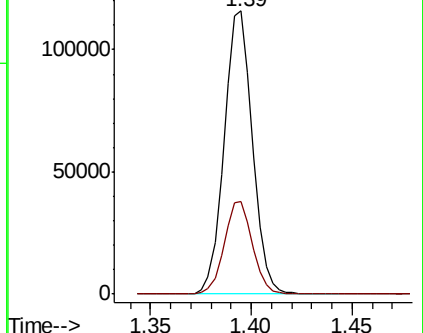
85 100

87 32.5 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU037016.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037016.D (-1) (-)



#3

Chloromethane

Concen: 51.042 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037016.D

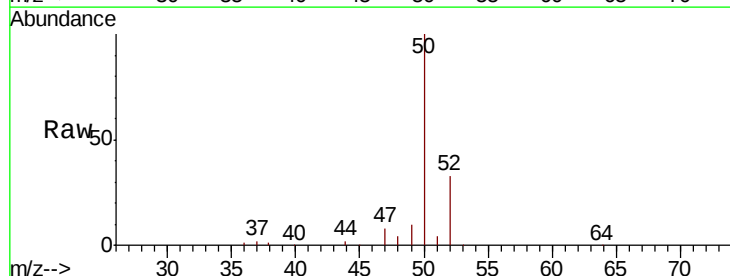
Acq: 02 Mar 2020 22:11

Tgt Ion: 50 Resp: 132779

Ion Ratio Lower Upper

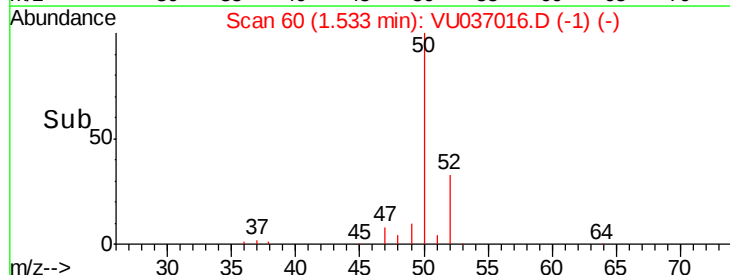
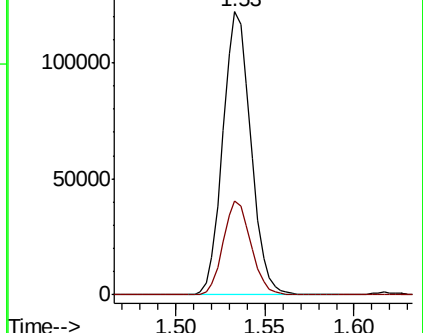
50 100

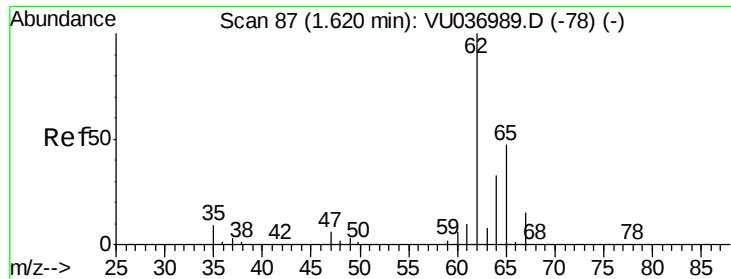
52 33.4 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU037016.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037016.D (-1) (-)





#5

Vinyl chloride

Concen: 50.894 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

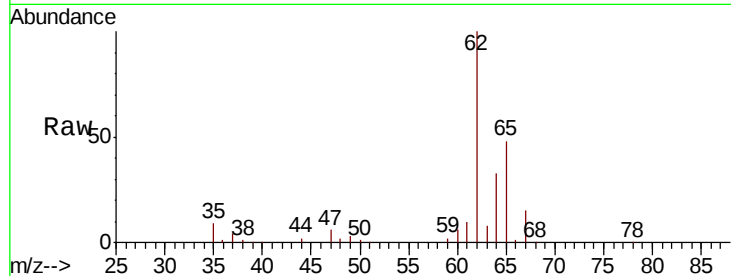
ClientSampled :

Tot Ion: 62 Resp: 136561

Ion Ratio Lower Upper

62 100

64 33.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU036989.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU036989.D (-78) (-)

150000

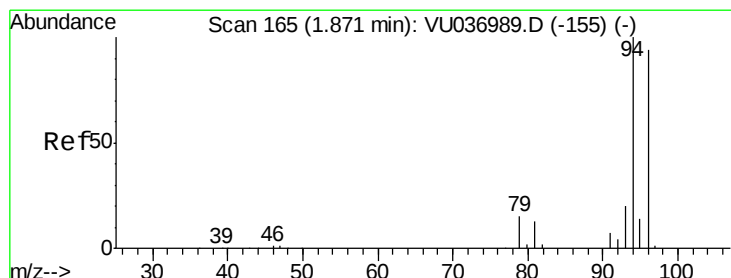
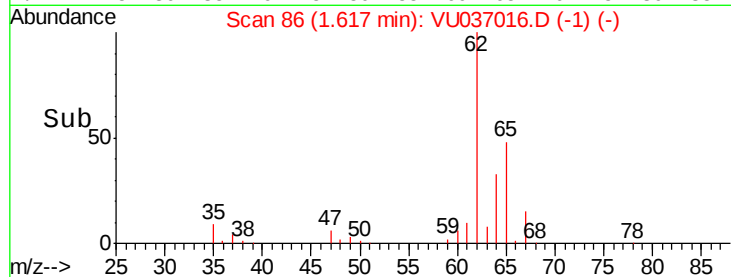
100000

50000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 36.606 ug/L

RT: 1.84 min Scan# 157

Delta R.T. -0.03 min

Lab File: VU037016.D

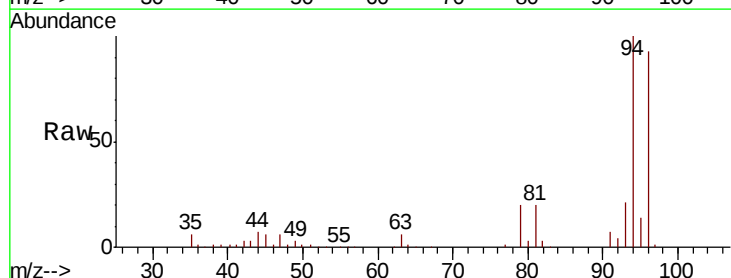
Acq: 02 Mar 2020 22:11

Tgt Ion: 94 Resp: 50395

Ion Ratio Lower Upper

94 100

96 93.0 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU036989.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU036989.D (-155) (-)

50000

40000

30000

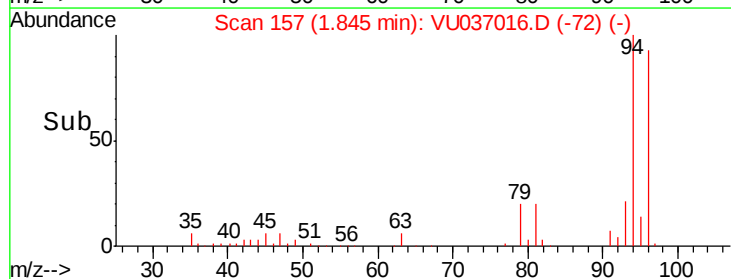
20000

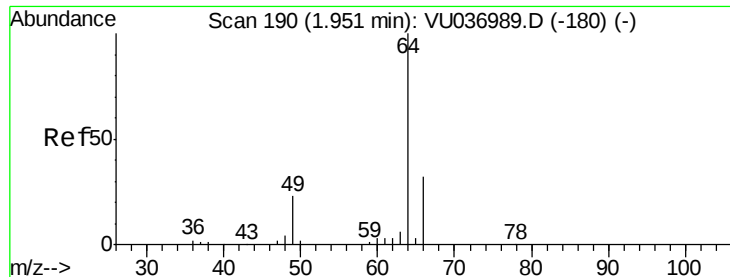
10000

0

1.80 1.85 1.90

Time-->





#8

Chloroethane

Concen: 50.881 ug/L

RT: 1.93 min Scan# 183

Delta R.T. -0.02 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

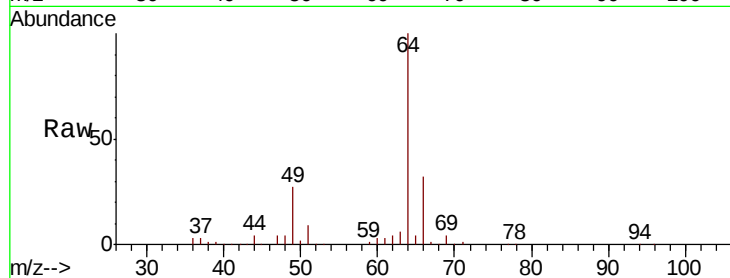
ClientSampleId :

Tot Ion: 64 Resp: 81839

Ion Ratio Lower Upper

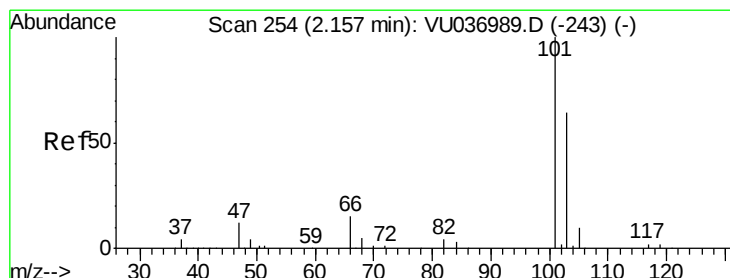
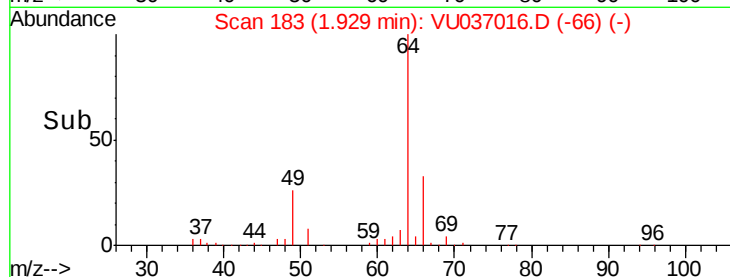
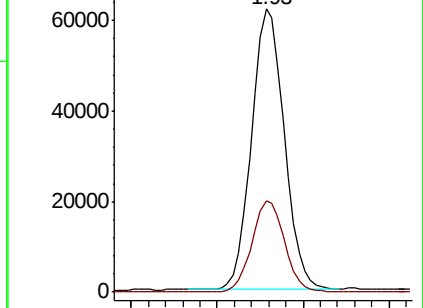
64 100

66 32.3 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU036989.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU036989.D (-180) (-)



#9

Trichlorofluoromethane

Concen: 51.252 ug/L

RT: 2.14 min Scan# 250

Delta R.T. -0.01 min

Lab File: VU037016.D

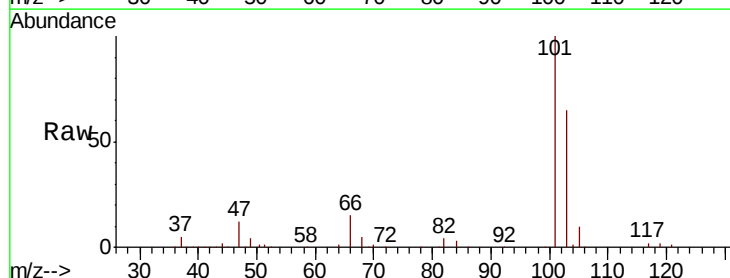
Acq: 02 Mar 2020 22:11

Tgt Ion:101 Resp: 145853

Ion Ratio Lower Upper

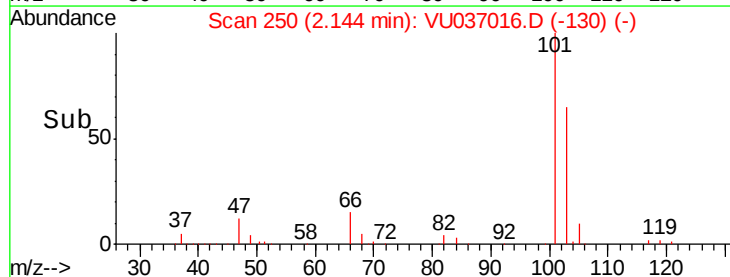
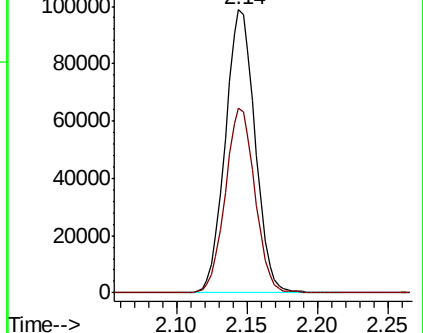
101 100

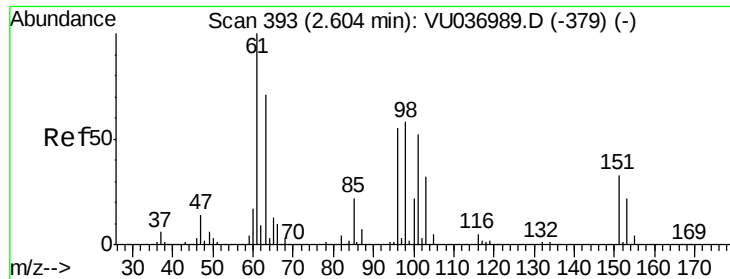
103 64.9 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU036989.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU036989.D (-243) (-)





#10

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

Concen: 51.086 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampled :

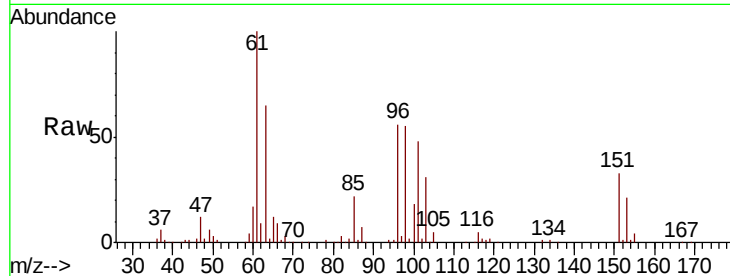
Tot Ion:101 Resp: 86966

Ion Ratio Lower Upper

101 100

85 44.3 36.4 54.6

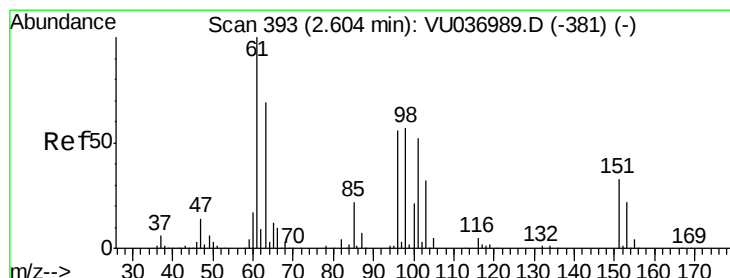
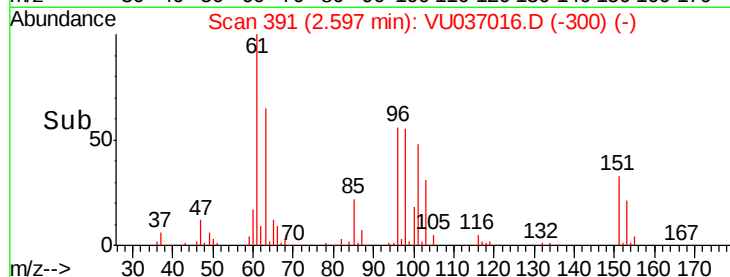
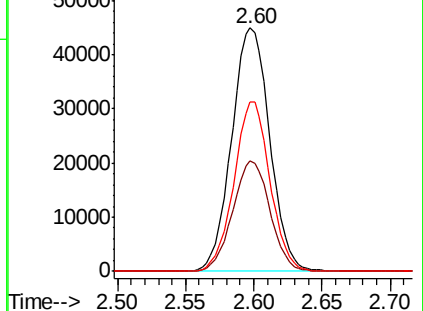
151 65.8 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.603 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

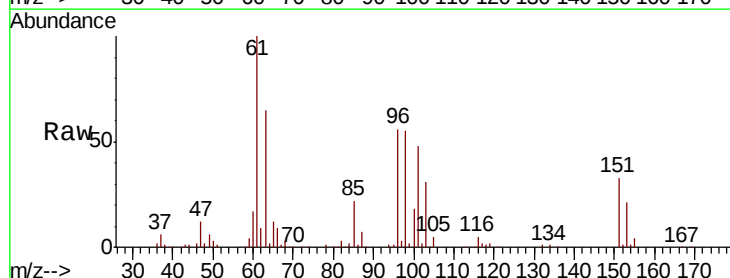
Tgt Ion: 96 Resp: 85406

Ion Ratio Lower Upper

96 100

61 177.6 127.5 236.7

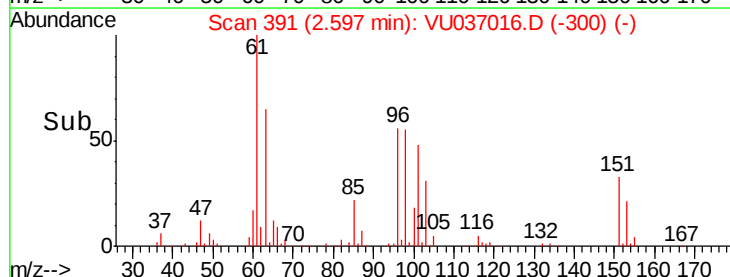
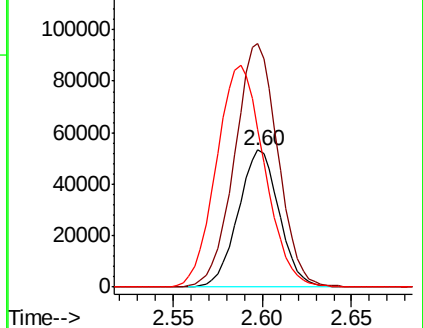
63 115.0 101.4 188.2

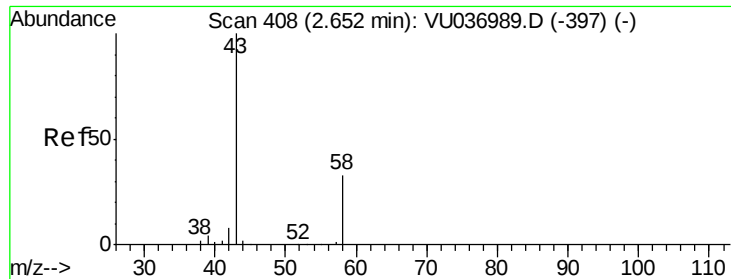


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 68.357 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

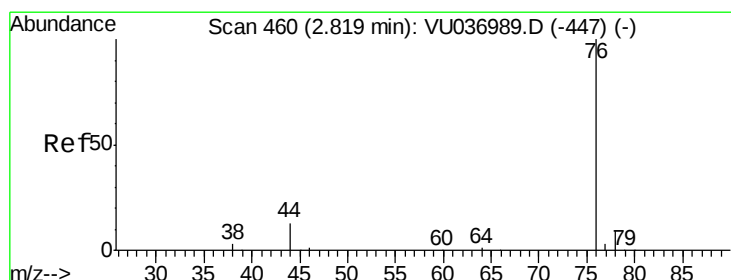
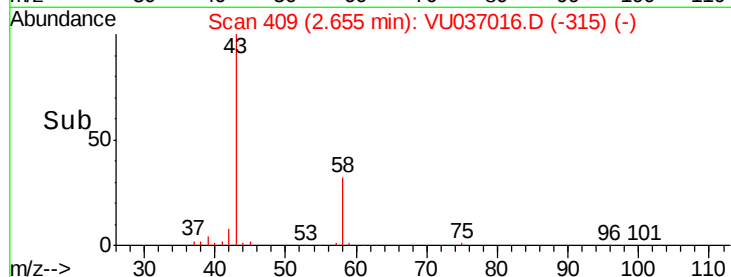
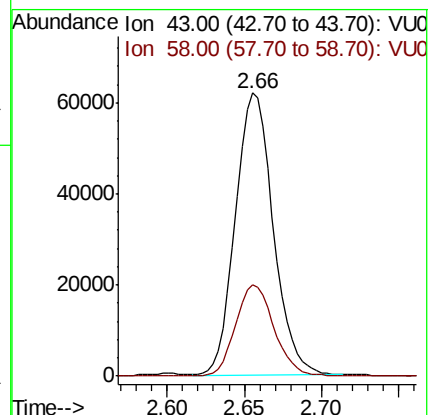
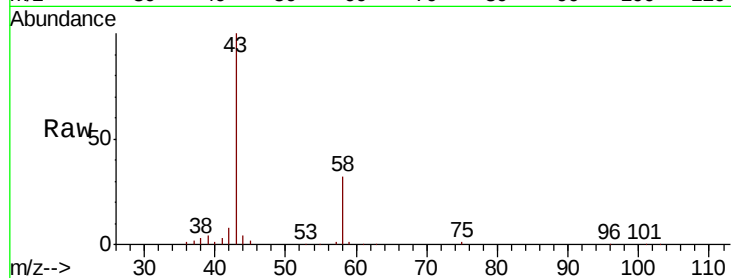
ClientSampleId :

Tot Ion: 43 Resp: 105583

Ion Ratio Lower Upper

43 100

58 32.9 0.0 64.6



#14

Carbon disulfide

Concen: 46.078 ug/L

RT: 2.81 min Scan# 458

Delta R.T. -0.01 min

Lab File: VU037016.D

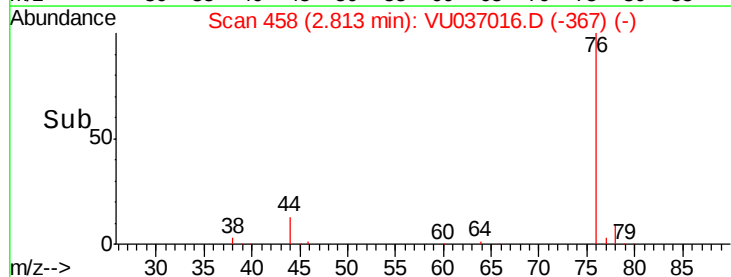
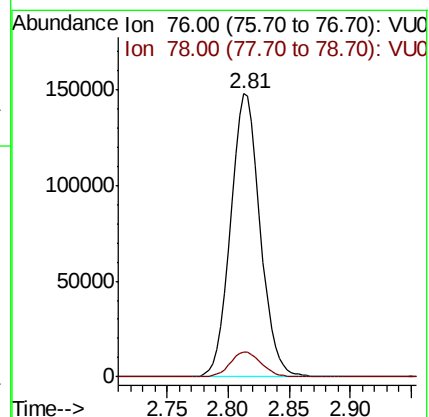
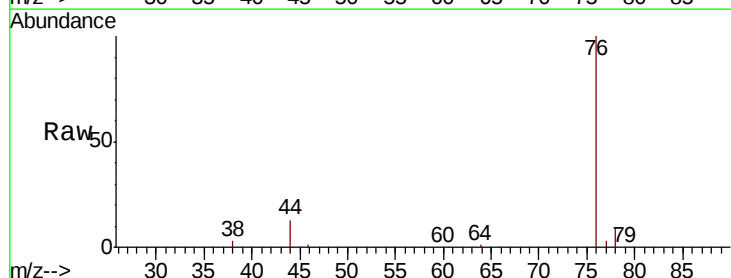
Acq: 02 Mar 2020 22:11

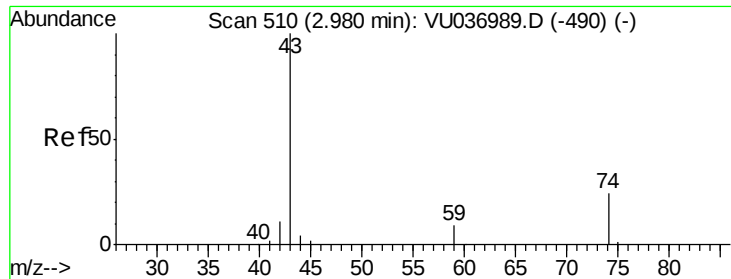
Tgt Ion: 76 Resp: 251016

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7

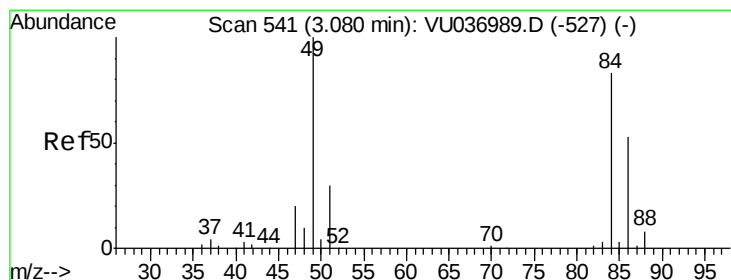
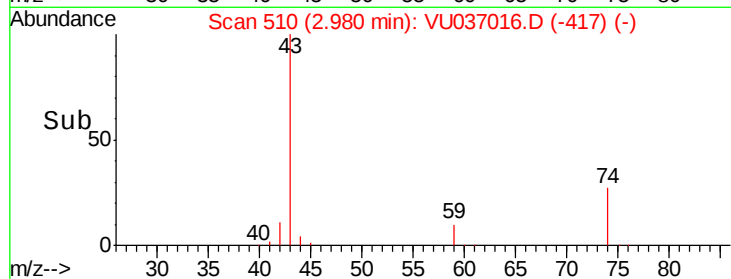
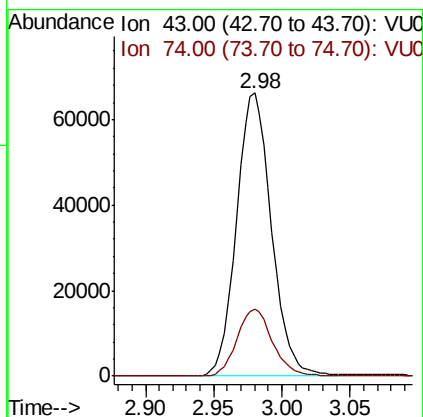
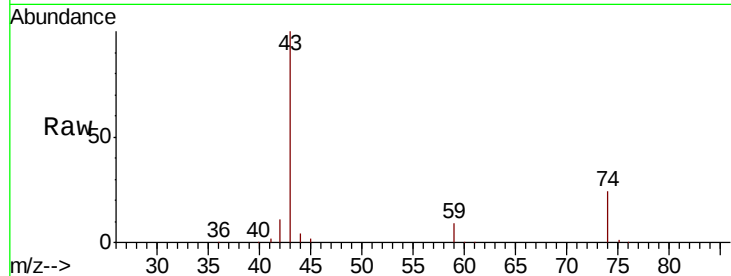




#15
Methvl Acetate
Concen: 50.045 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

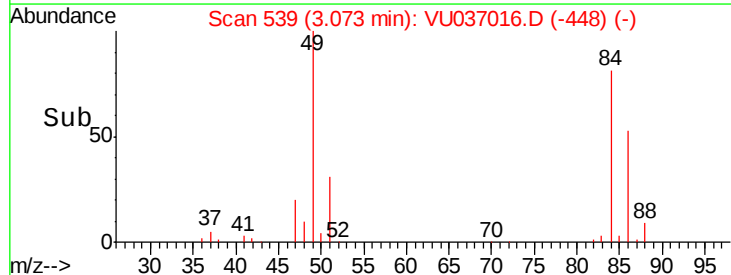
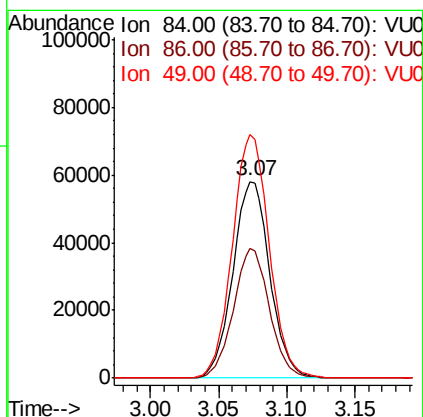
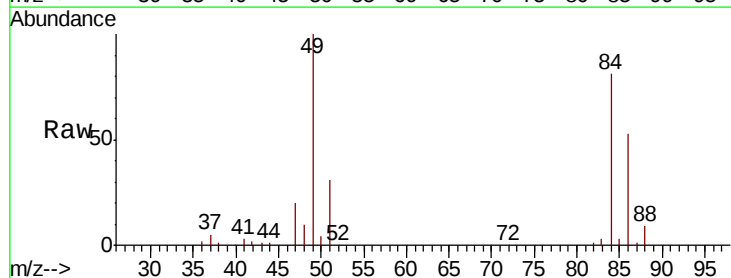
Instrument :
MSVOA_U
ClientSampleId :

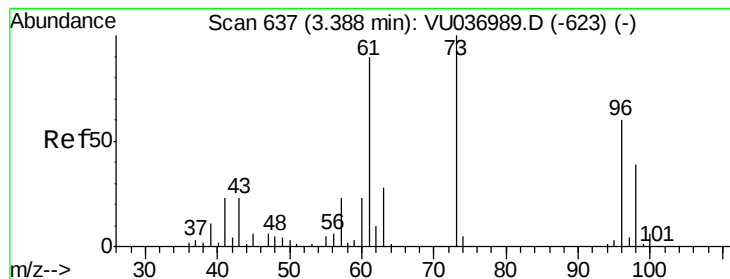
Tot Ion: 43 Resp: 117820
Ion Ratio Lower Upper
43 100
74 24.1 19.0 28.4



#16
Methylene chloride
Concen: 51.951 ug/L
RT: 3.07 min Scan# 539
Delta R.T. -0.01 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Tgt Ion: 84 Resp: 109102
Ion Ratio Lower Upper
84 100
86 65.8 44.4 82.5
49 123.8 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 49.707 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.01 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampled :

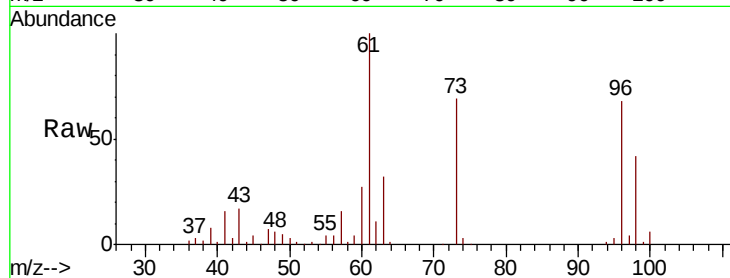
Tot Ion: 96 Resp: 91940

Ion Ratio Lower Upper

96 100

61 146.8 103.8 192.8

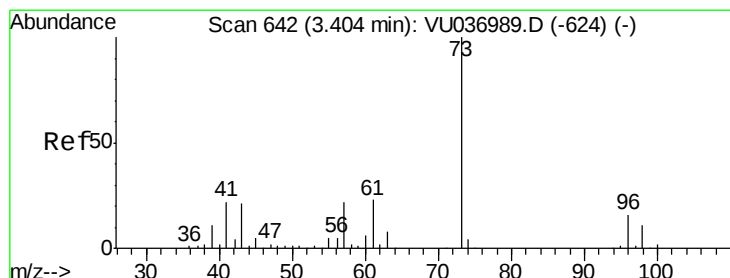
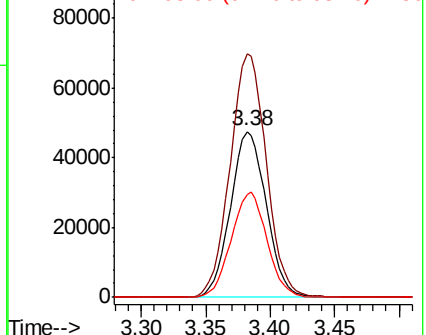
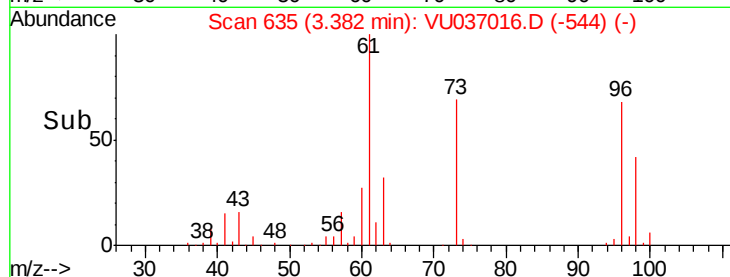
98 62.3 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU037016.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037016.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037016.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 52.176 ug/L

RT: 3.40 min Scan# 642

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

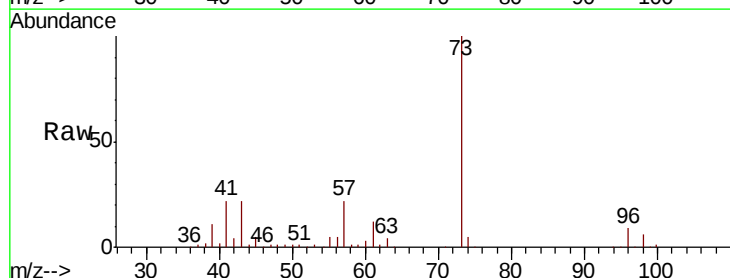
Tgt Ion: 73 Resp: 313704

Ion Ratio Lower Upper

73 100

43 22.4 18.1 27.1

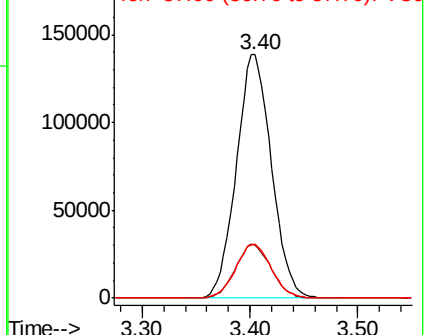
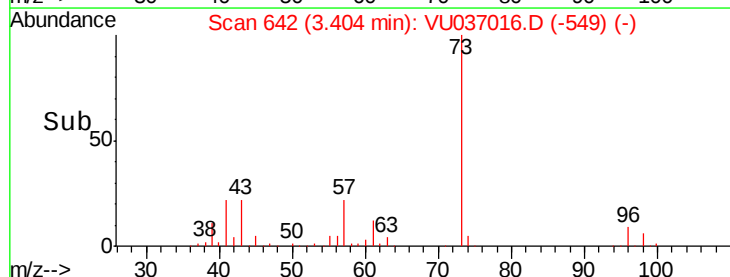
57 22.7 18.4 27.6

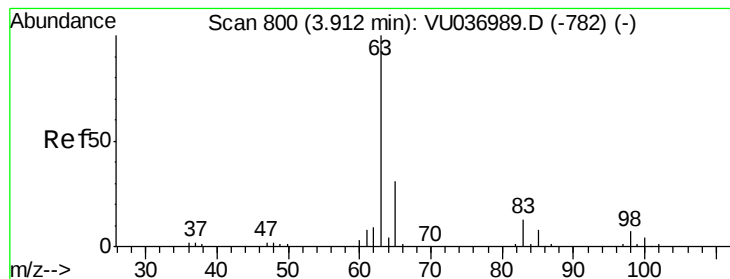


Abundance Ion 73.00 (72.70 to 73.70): VU037016.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037016.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037016.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 52.895 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampleId :

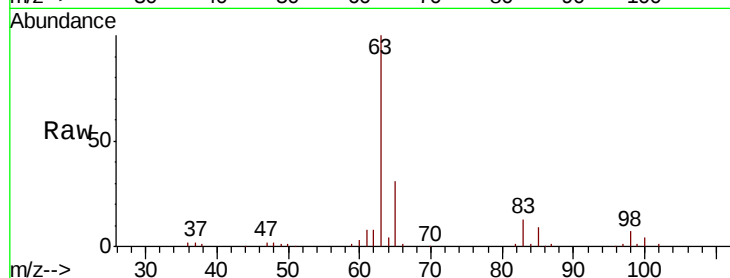
Tot Ion: 63 Resp: 190106

Ion Ratio Lower Upper

63 100

65 30.9 21.3 39.5

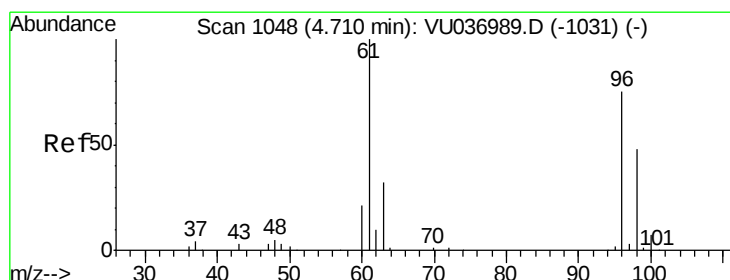
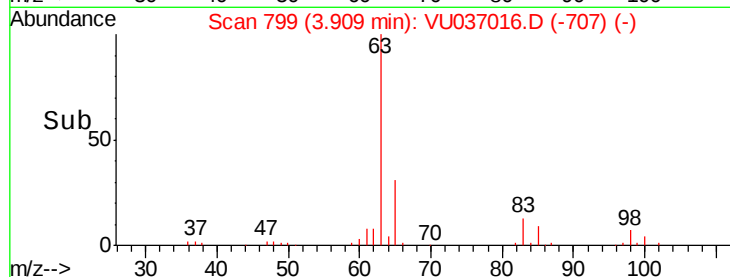
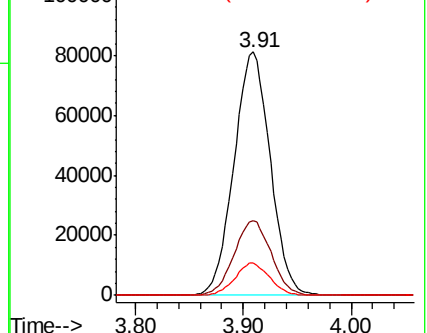
83 13.3 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU036989.D (-782) (-)

Ion 65.00 (64.70 to 65.70): VU036989.D (-782) (-)

Ion 83.00 (82.70 to 83.70): VU036989.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.124 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

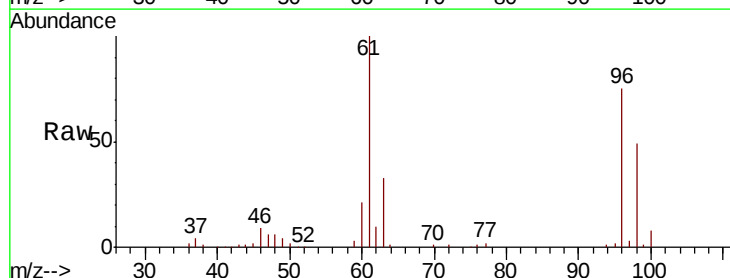
Tgt Ion: 96 Resp: 107802

Ion Ratio Lower Upper

96 100

61 132.9 93.1 172.9

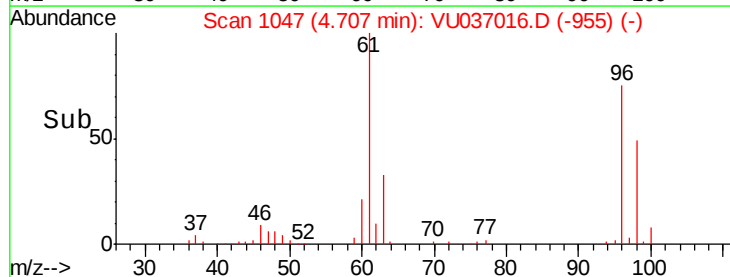
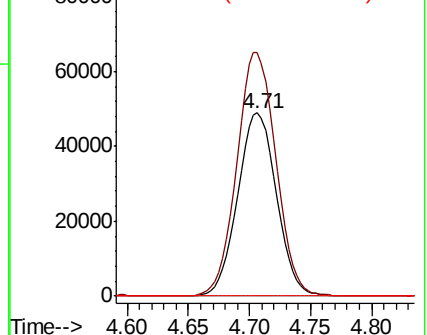
68 0.0 0.0 0.0

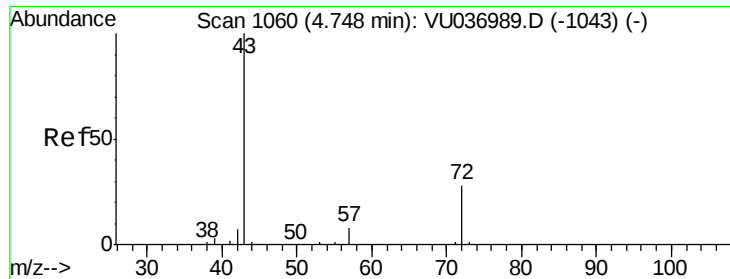


Abundance Ion 96.00 (95.70 to 96.70): VU036989.D (-1031) (-)

Ion 61.00 (60.70 to 61.70): VU036989.D (-1031) (-)

Ion 68.00 (67.70 to 68.70): VU036989.D (-1031) (-)





#22

2-Butanone

Concen: 91.645 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

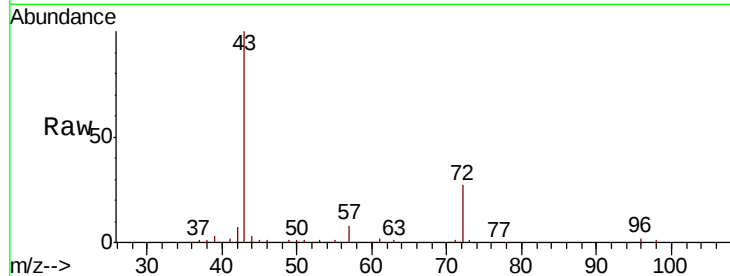
ClientSampleId :

Tot Ion: 43 Resp: 170695

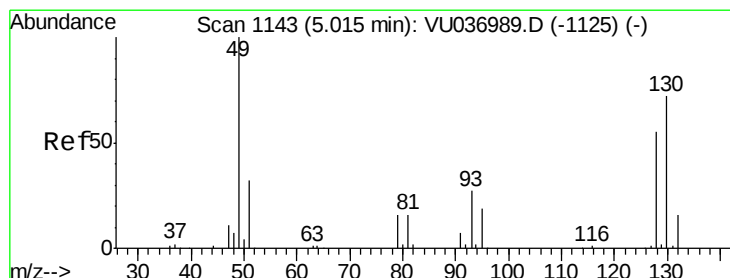
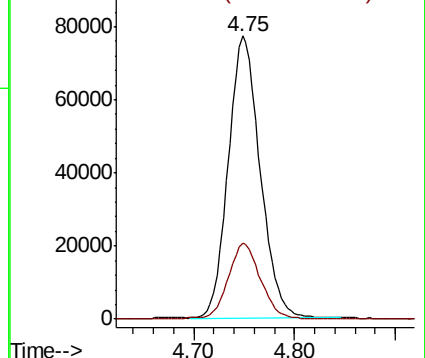
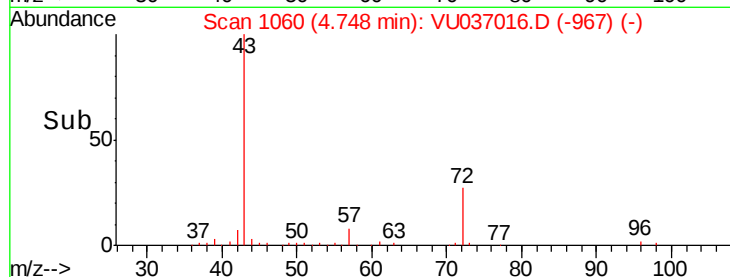
Ion Ratio Lower Upper

43 100

72 27.5 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU037016.D (-967) (-)



#23

Bromochloromethane

Concen: 53.274 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Tgt Ion:128 Resp: 49897

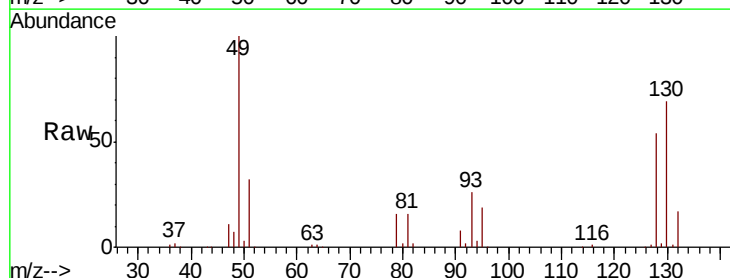
Ion Ratio Lower Upper

128 100

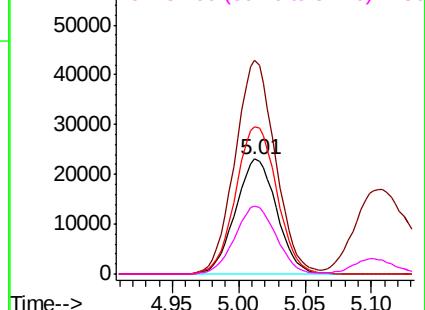
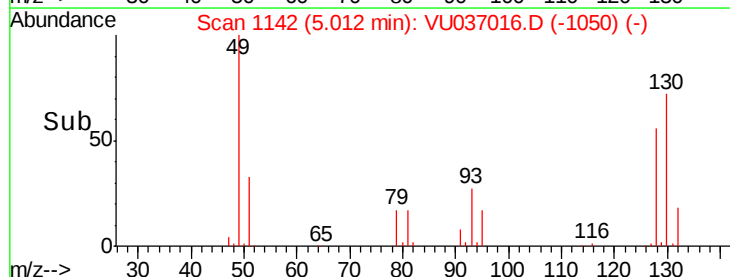
49 186.2 126.5 234.9

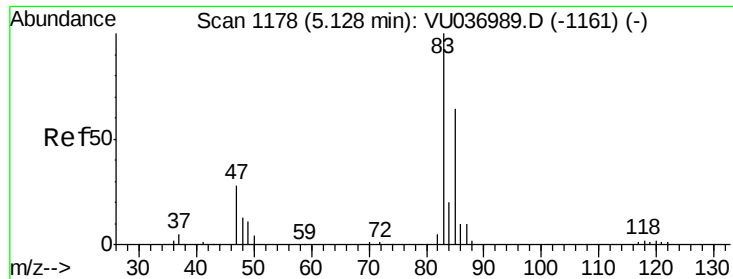
130 128.8 86.0 159.8

51 59.7 47.3 70.9



Abundance Ion 128.00 (127.70 to 128.70): VU037016.D (-1050) (-)

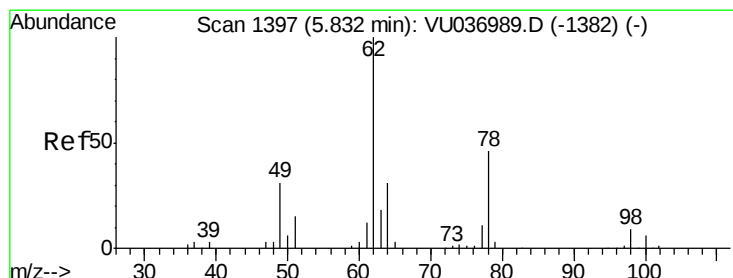
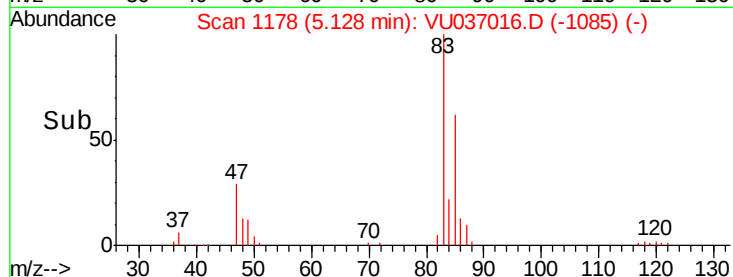
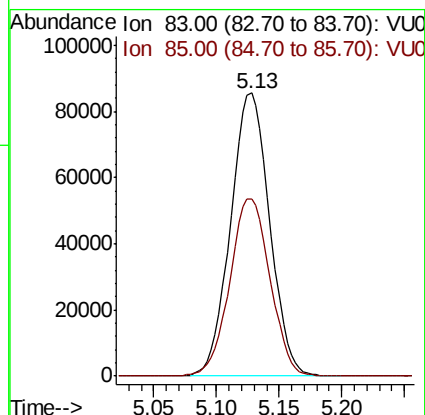
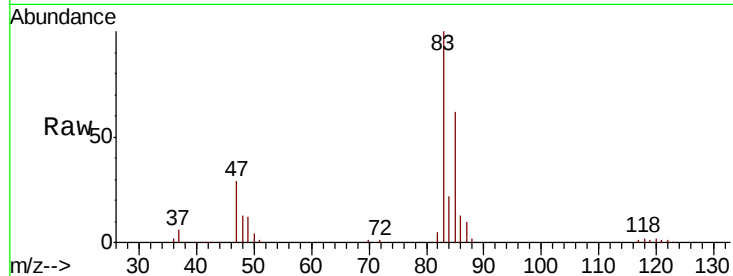




#25
Chloroform
Concen: 53.421 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

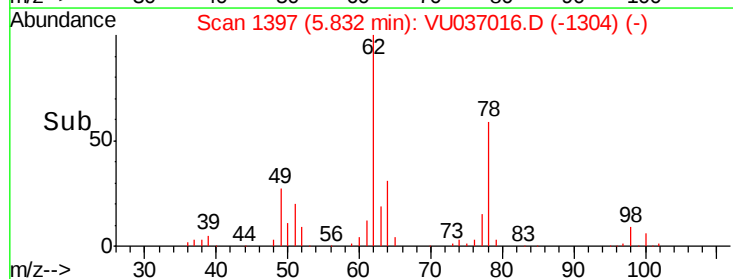
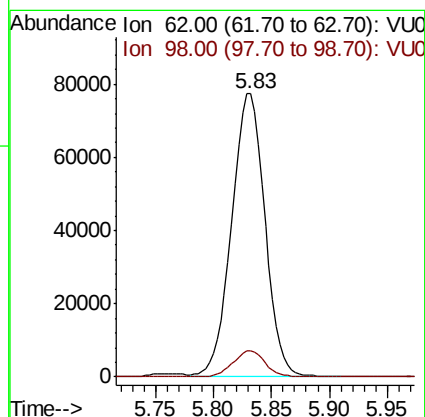
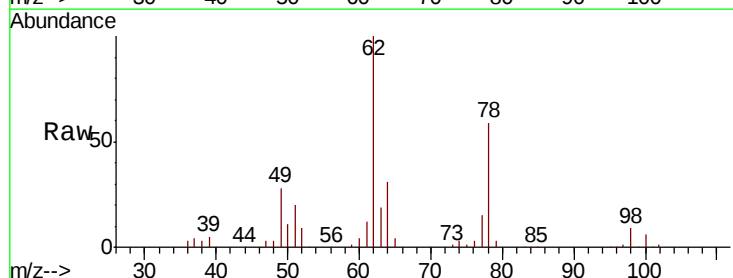
Instrument :
MSVOA_U
ClientSampleId :

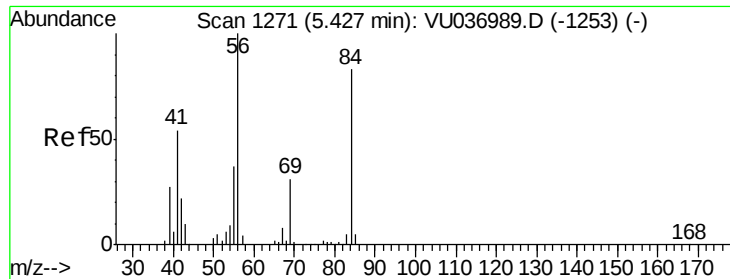
Tot Ion: 83 Resp: 185251
Ion Ratio Lower Upper
83 100
85 62.5 45.1 83.9



#27
1,2-Dichloroethane
Concen: 54.324 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Tgt Ion: 62 Resp: 153369
Ion Ratio Lower Upper
62 100
98 9.3 7.1 10.7

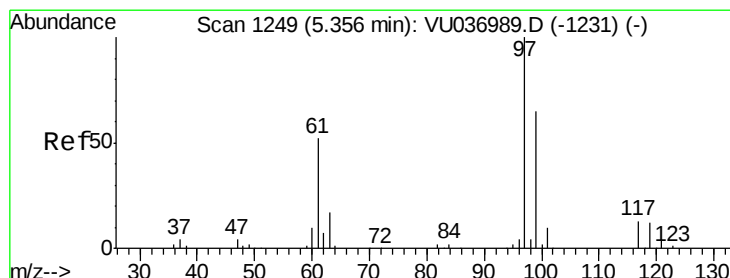
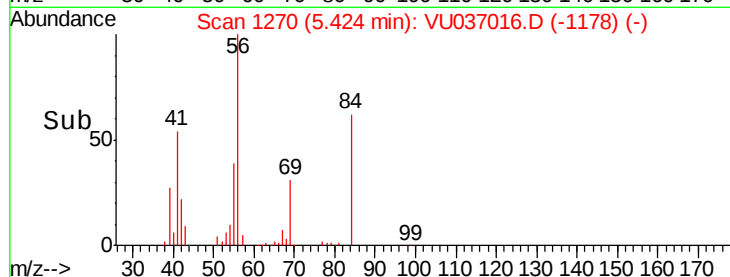
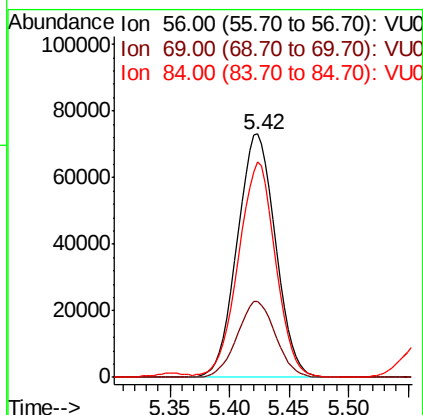
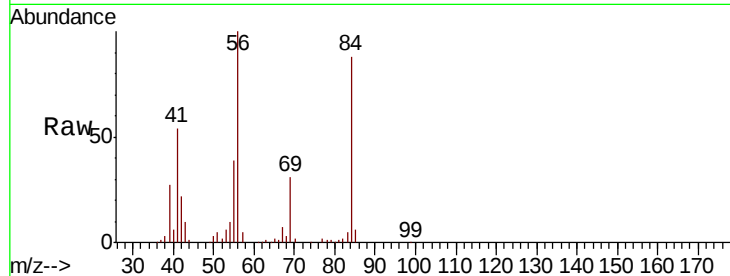




#29
Cyclohexane
Concen: 47.723 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

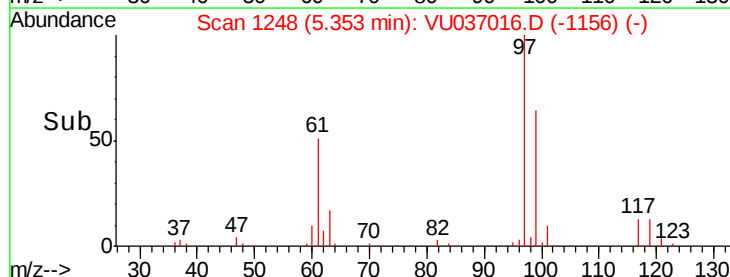
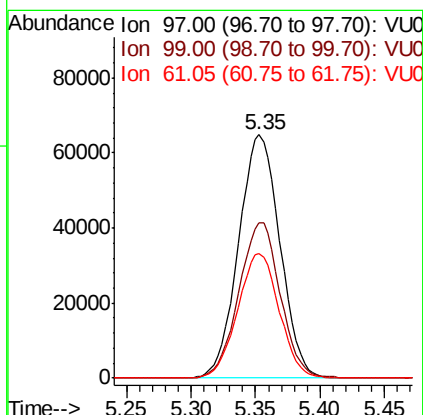
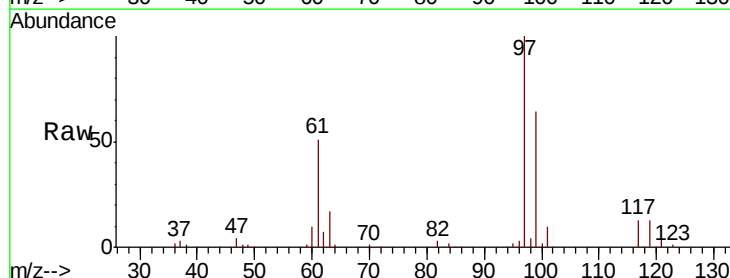
Instrument :
MSVOA_U
ClientSampleId :

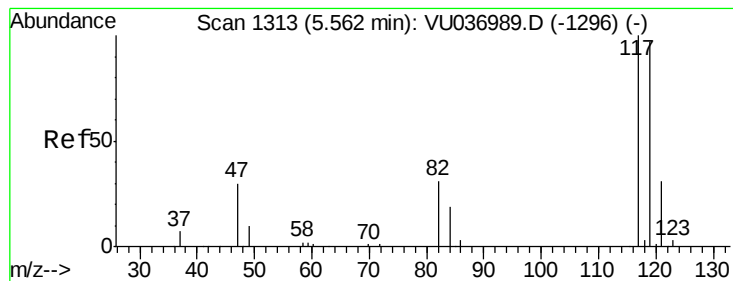
Tot Ion: 56 Resp: 163350
Ion Ratio Lower Upper
56 100
69 31.2 24.6 37.0
84 86.2 67.0 100.4



#30
1,1,1-Trichloroethane
Concen: 52.395 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Tgt Ion: 97 Resp: 144898
Ion Ratio Lower Upper
97 100
99 63.9 50.4 75.6
61 51.4 40.3 60.5





#31

Carbon tetrachloride

Concen: 51.928 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

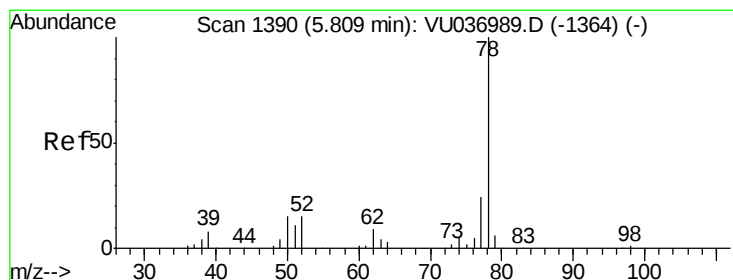
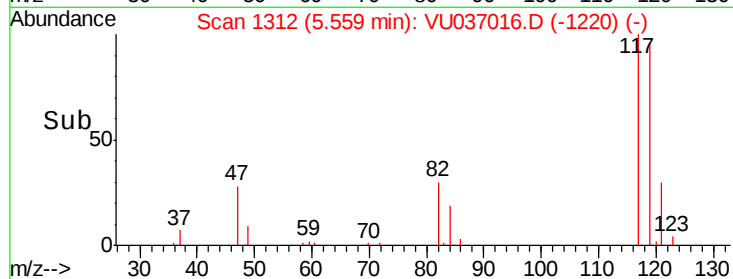
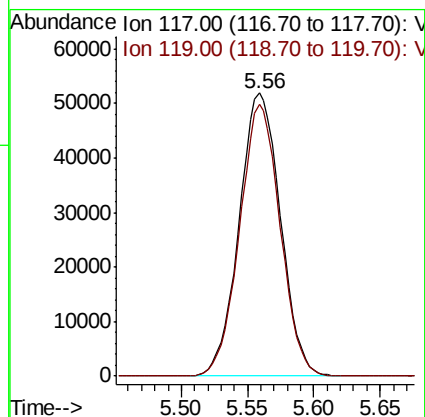
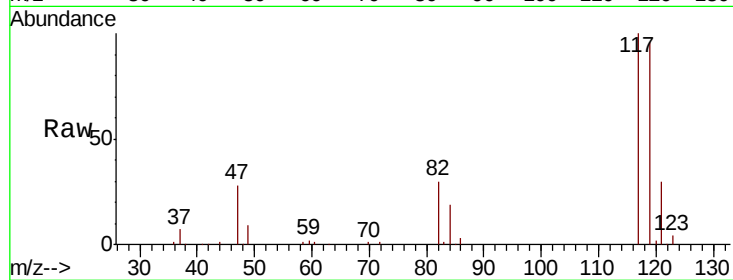
ClientSampleId :

Tot Ion:117 Resp: 112560

Ion Ratio Lower Upper

117 100

119 94.1 77.2 115.8



#33

Benzene

Concen: 51.889 ug/L

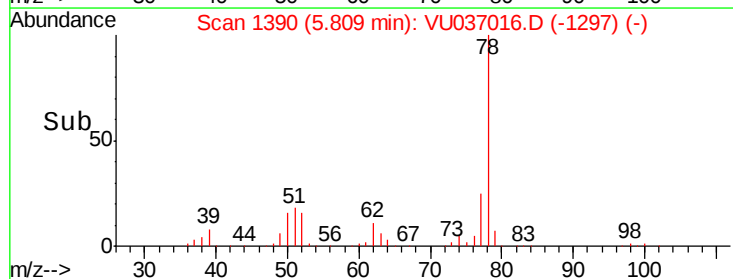
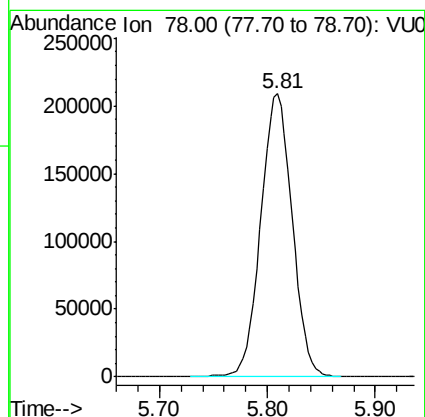
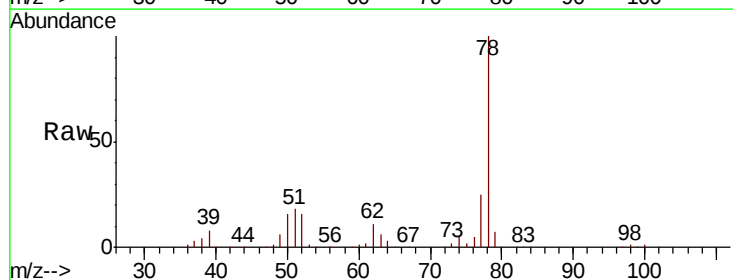
RT: 5.81 min Scan# 1390

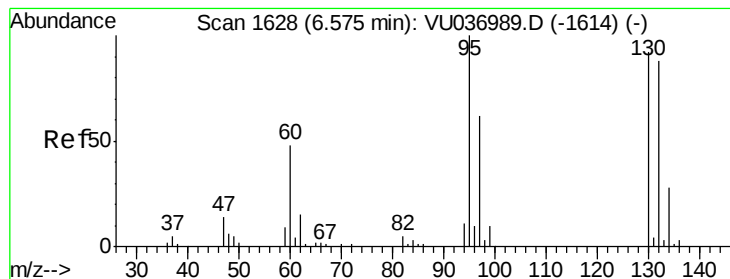
Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Tgt Ion: 78 Resp: 422826





#34

Trichloroethene

Concen: 52.933 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 106014

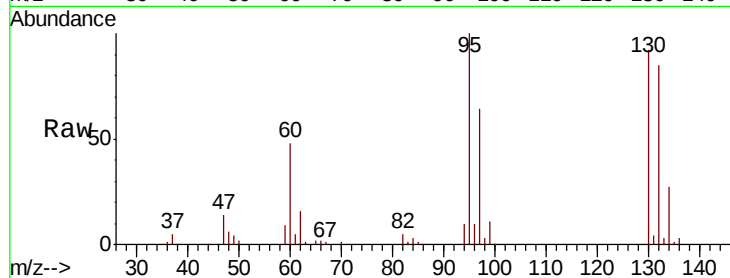
Ion Ratio Lower Upper

95 100

97 64.4 44.1 81.9

132 84.9 60.6 112.6

130 92.5 64.9 120.5

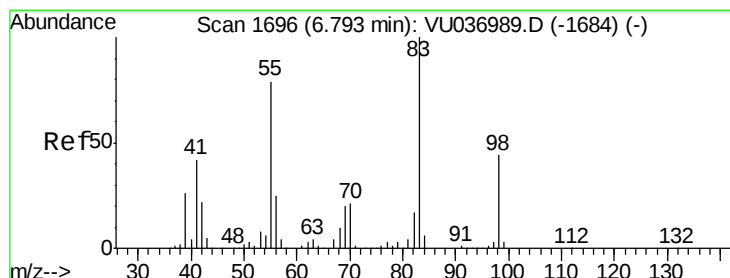
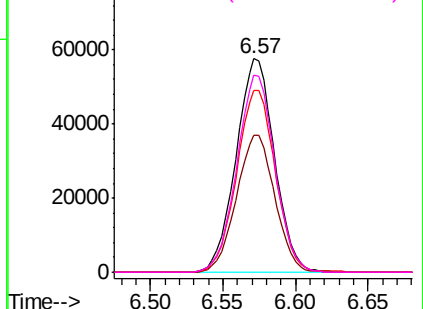
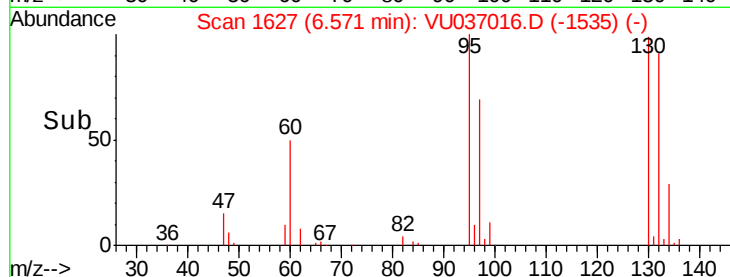


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 47.607 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

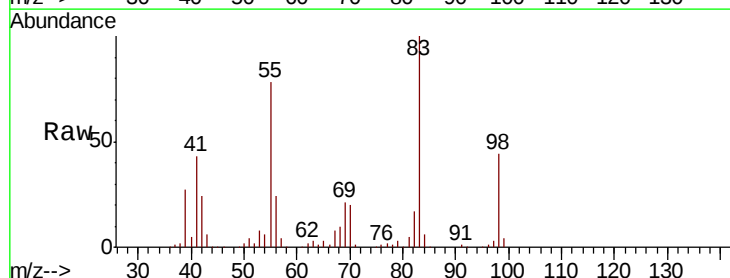
Tgt Ion: 83 Resp: 165315

Ion Ratio Lower Upper

83 100

55 78.1 62.6 93.8

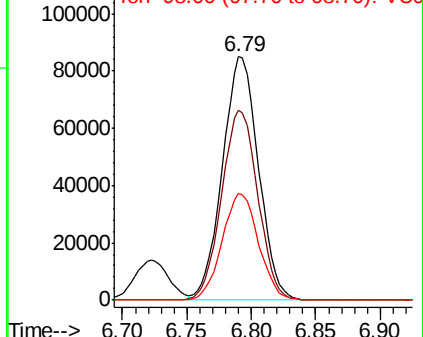
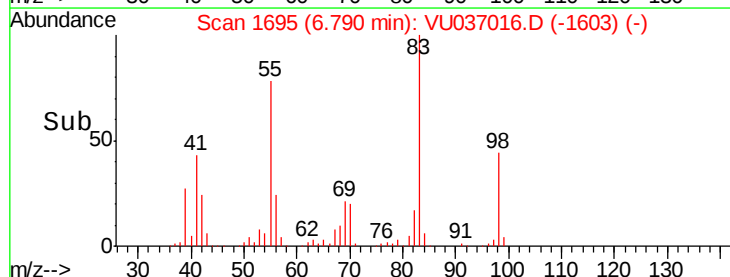
98 44.2 35.1 52.7

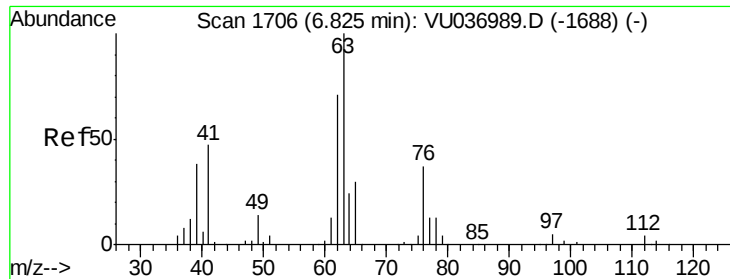


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

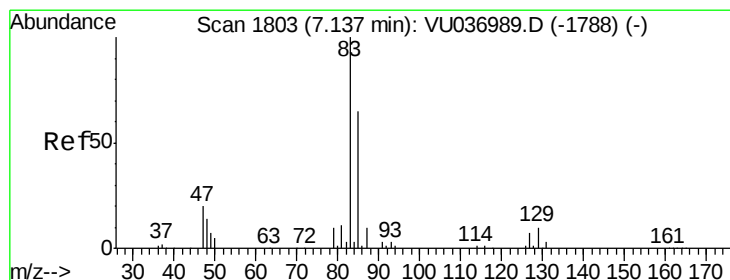
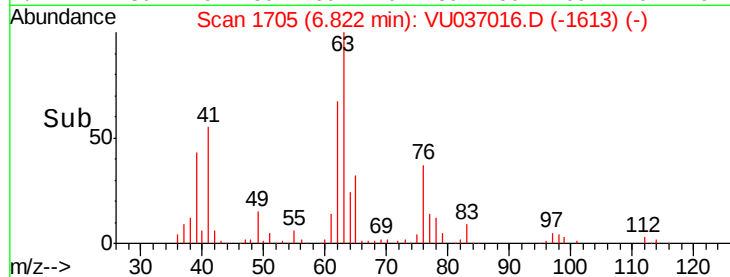
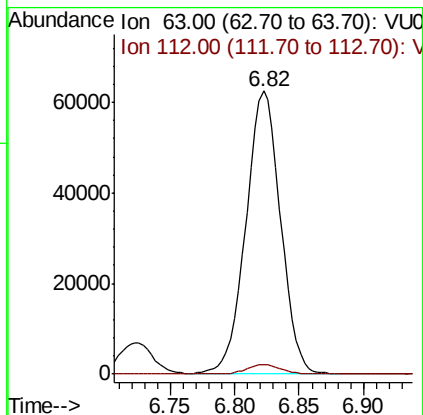
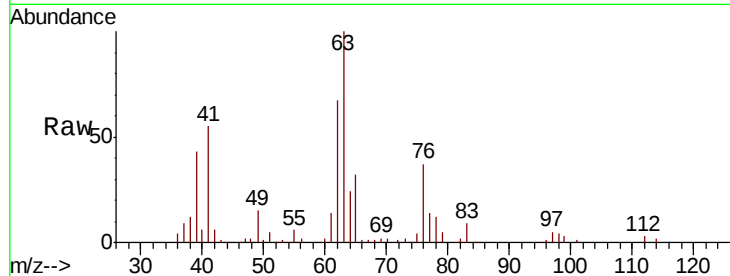




#37
 1,2-Dichloropropane
 Concen: 53.137 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

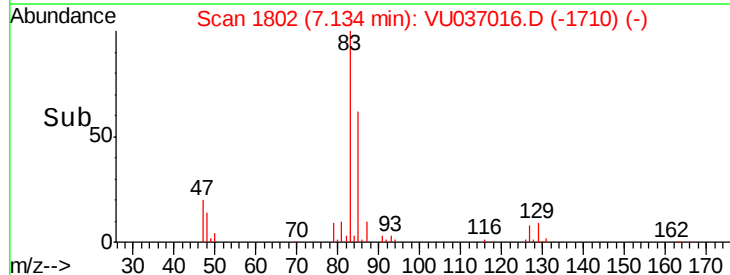
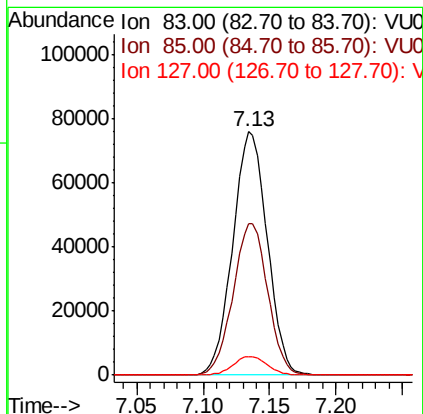
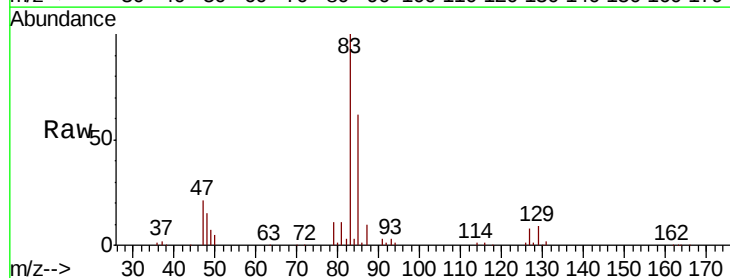
Instrument :
 MSVOA_U
 ClientSampleId :

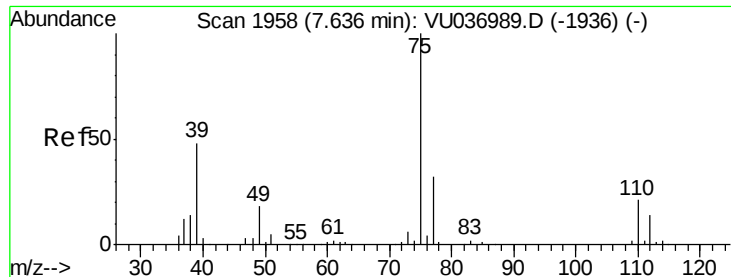
Tot Ion: 63 Resp: 116586
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.6



#38
 Bromodichloromethane
 Concen: 53.058 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

Tgt Ion: 83 Resp: 137414
 Ion Ratio Lower Upper
 83 100
 85 62.3 43.6 81.0
 127 7.7 6.0 9.0

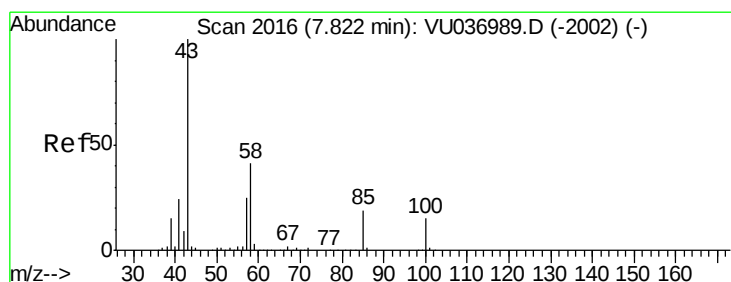
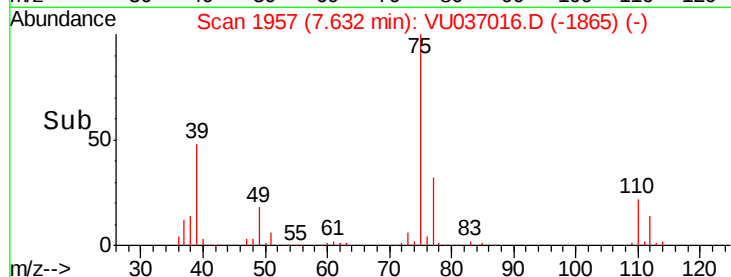
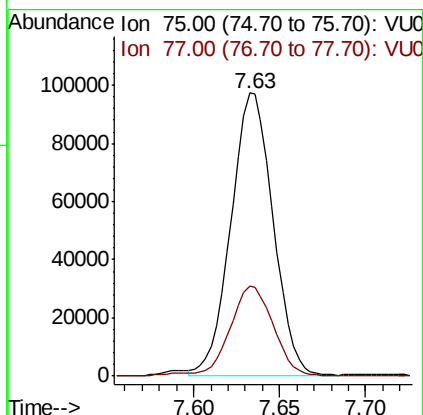
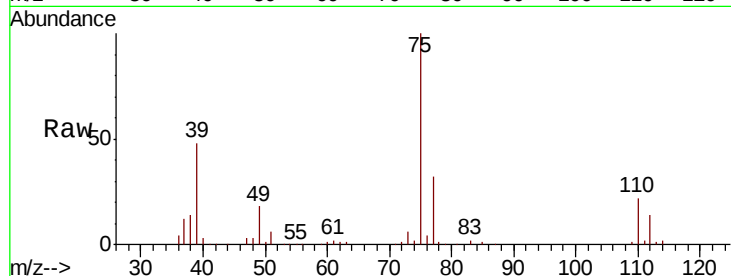




#39
 cis-1,3-Dichloropropene
 Concen: 49.125 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

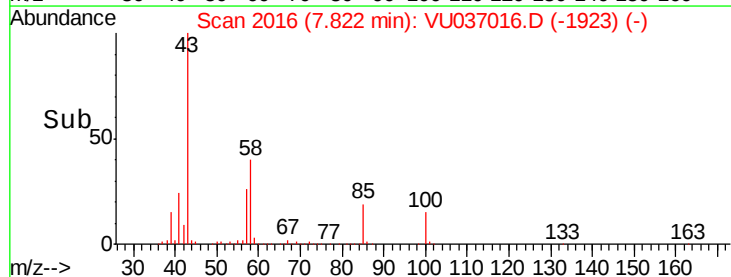
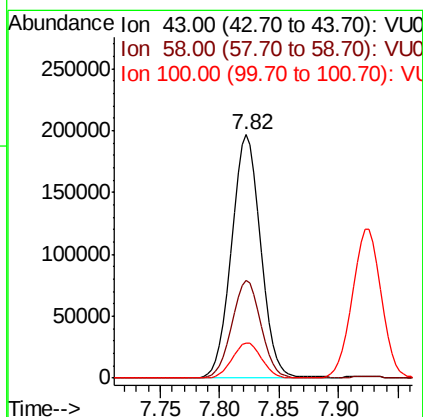
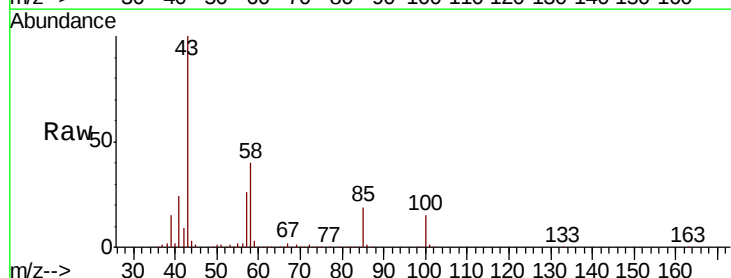
Instrument :
 MSVOA_U
 ClientSampled :

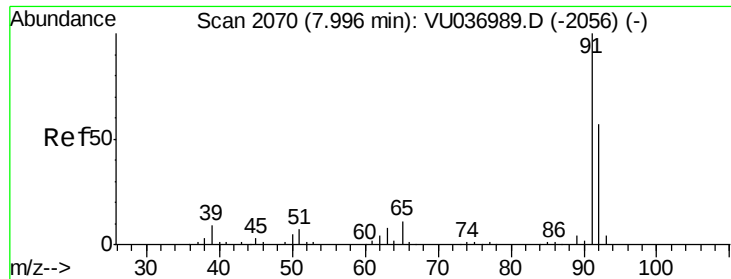
Tot Ion: 75 Resp: 166032
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 103.492 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

Tgt Ion: 43 Resp: 334590
 Ion Ratio Lower Upper
 43 100
 58 40.1 31.8 47.6
 100 14.6 11.5 17.3





#42

Toluene

Concen: 52.623 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

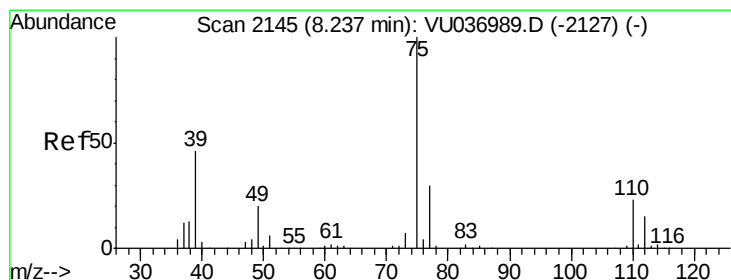
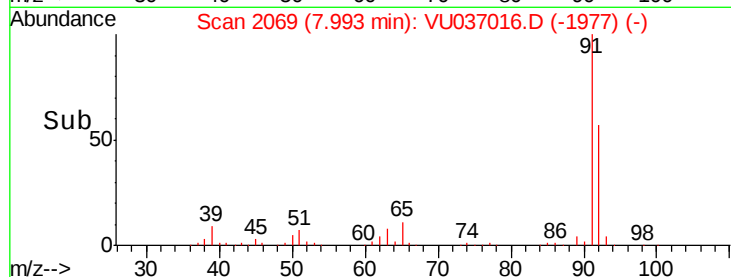
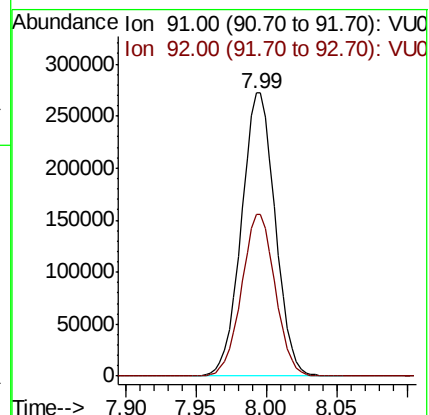
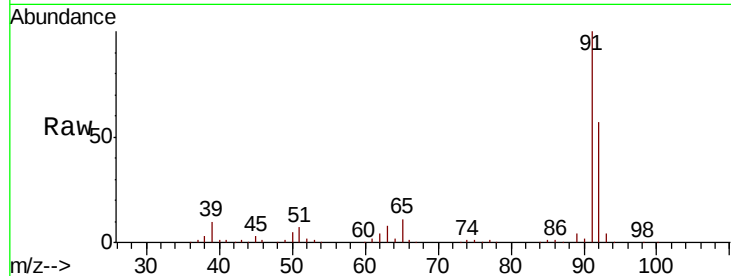
ClientSampled :

Tot Ion: 91 Resp: 456845

Ion Ratio Lower Upper

91 100

92 57.0 39.4 73.2



#44

trans-1,3-Dichloropropene

Concen: 50.889 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037016.D

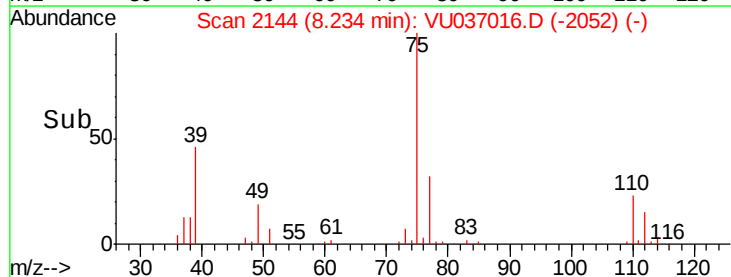
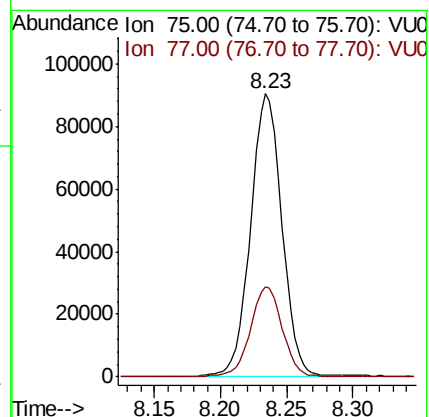
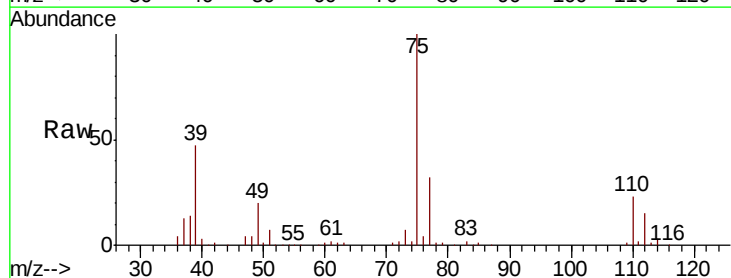
Acq: 02 Mar 2020 22:11

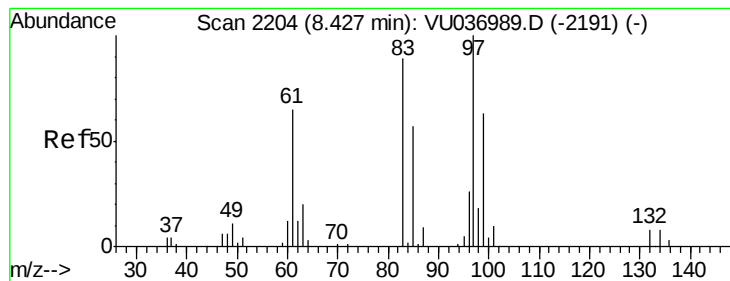
Tgt Ion: 75 Resp: 149200

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 52.766 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 102951

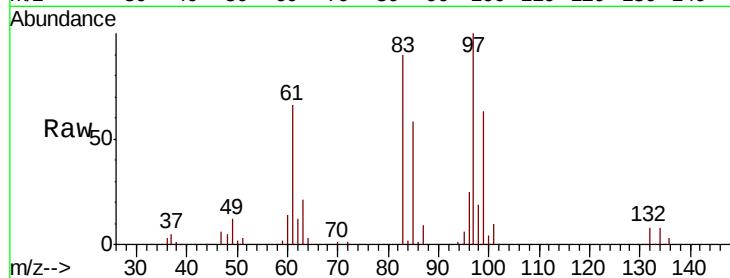
Ion Ratio Lower Upper

97 100

99 62.8 43.6 81.0

83 90.2 62.7 116.5

85 58.2 40.3 74.9

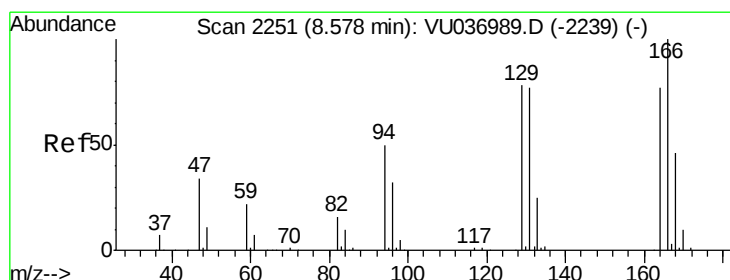
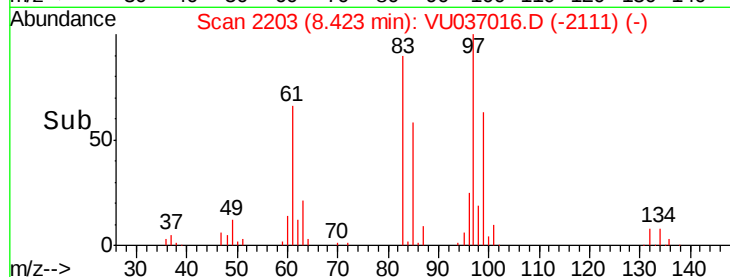
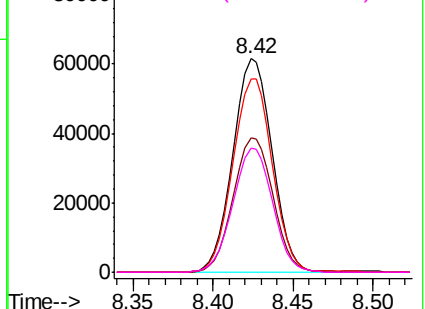


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 50.654 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Tgt Ion: 164 Resp: 66832

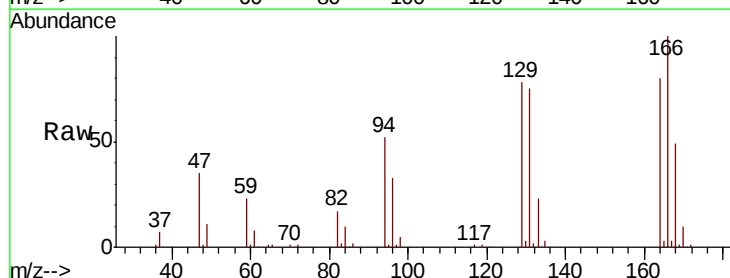
Ion Ratio Lower Upper

164 100

129 98.2 72.0 133.8

131 94.5 67.9 126.1

166 125.3 87.1 161.7

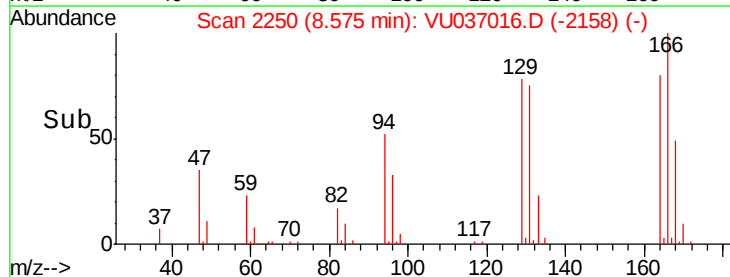
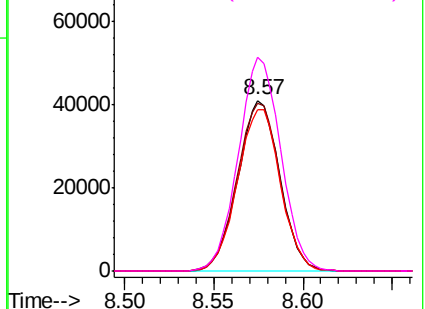


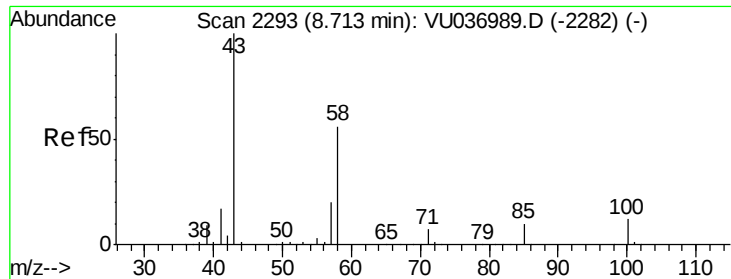
Abundance Ion 164.00 (163.70 to 164.70): V

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

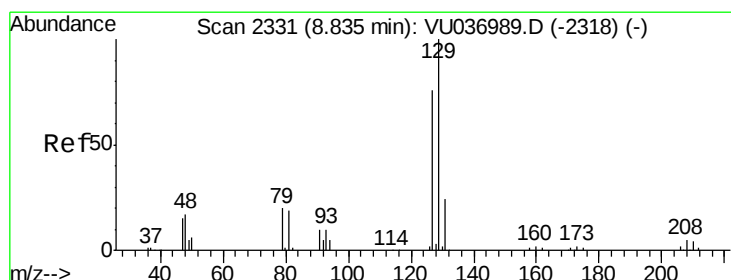
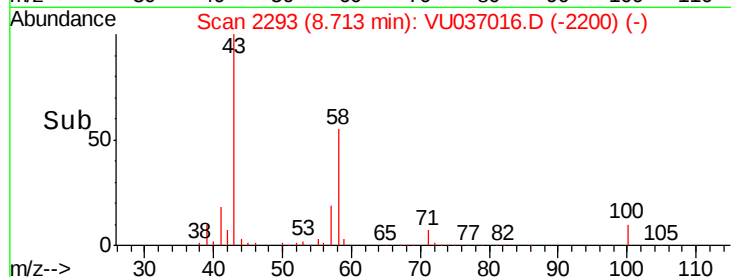
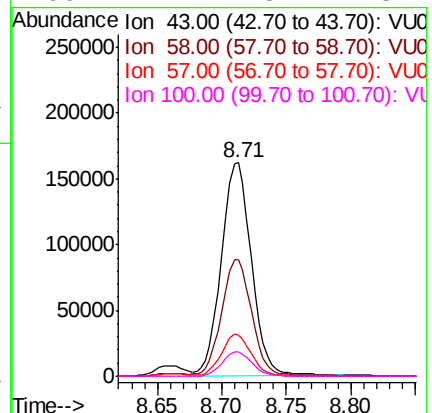
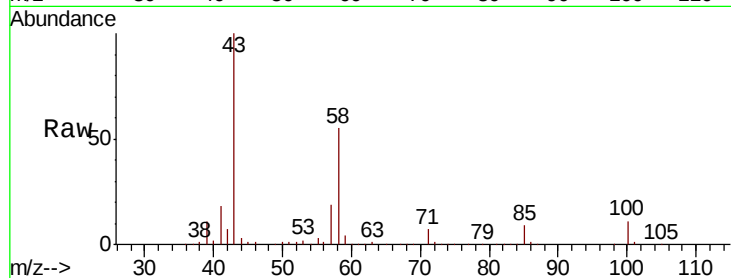




#48
2-Hexanone
Concen: 101.939 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

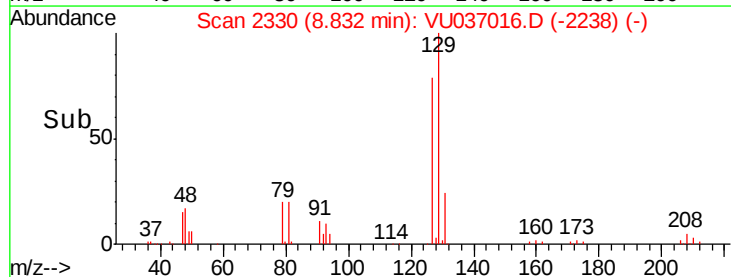
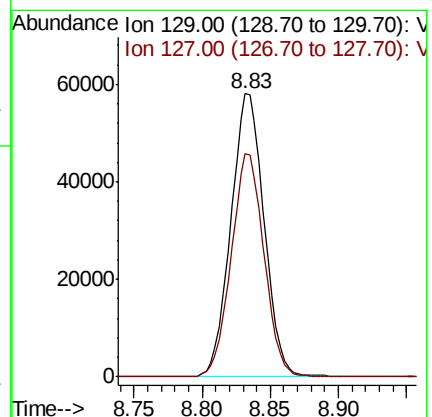
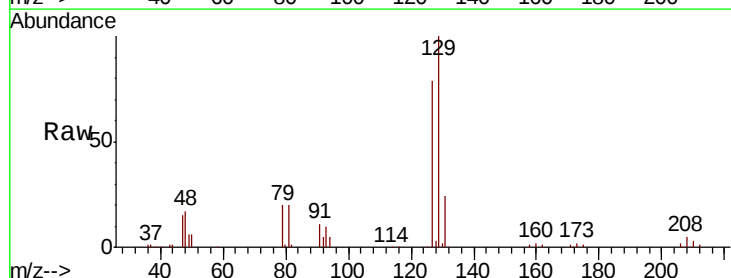
Instrument :
MSVOA_U
ClientSampled :

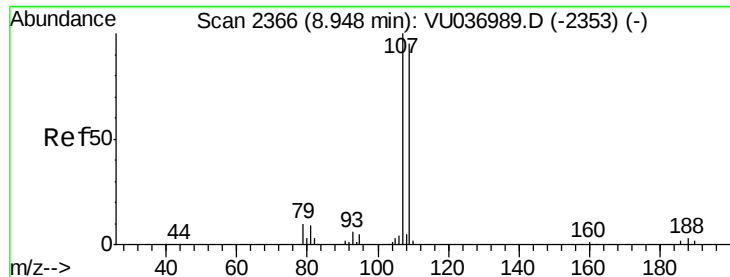
Tot Ion: 43 Resp: 262995
Ion Ratio Lower Upper
43 100
58 54.8 43.5 65.3
57 19.4 15.1 22.7
100 11.4 8.7 13.1



#49
Dibromochloromethane
Concen: 53.161 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Tgt Ion: 129 Resp: 98450
Ion Ratio Lower Upper
129 100
127 78.8 54.3 100.8

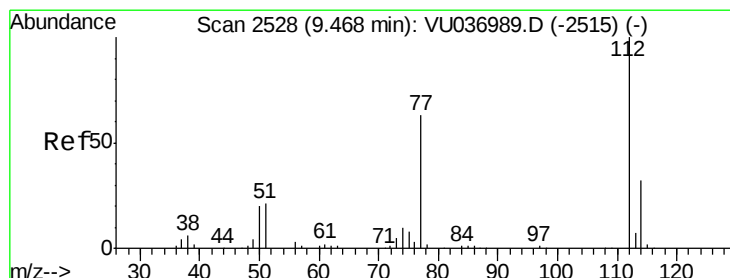
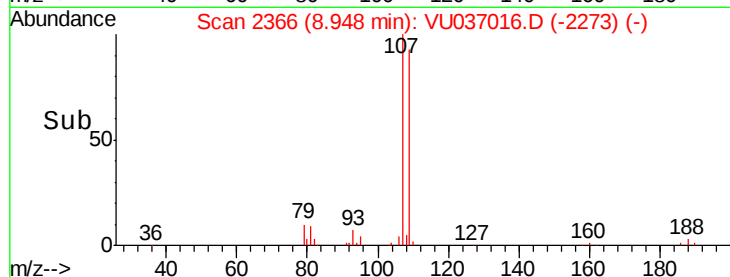
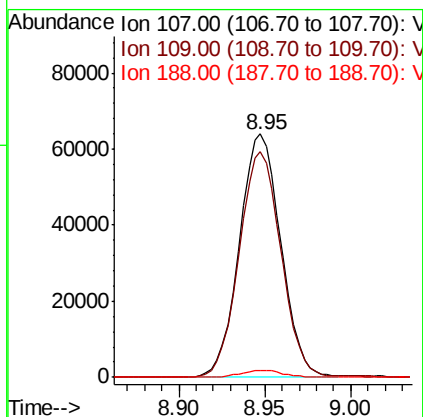
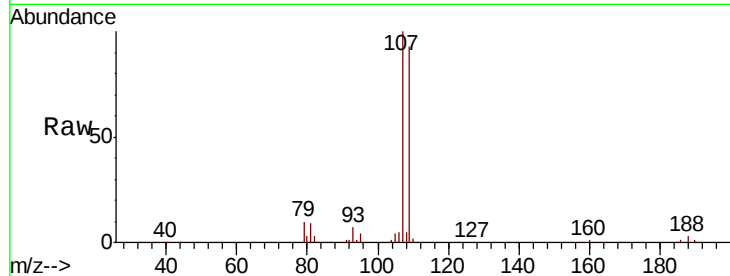




#50
 1,2-Dibromoethane
 Concen: 52.562 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

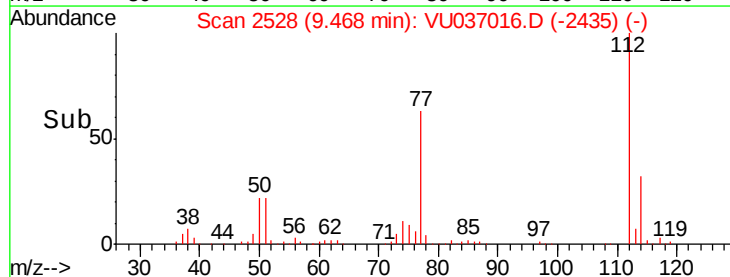
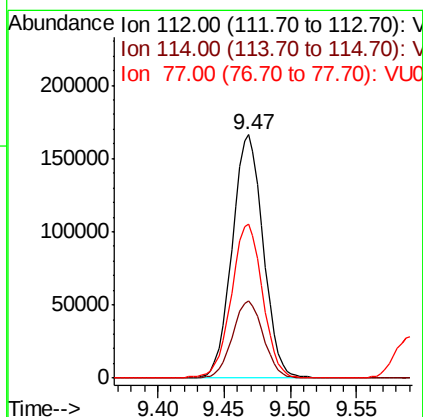
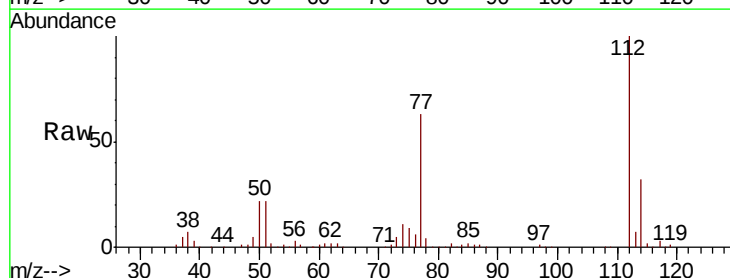
Instrument :
 MSVOA_U
 ClientSampleId :

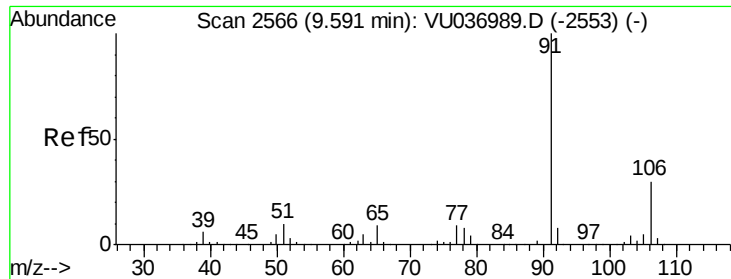
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	65.9	122.5
188	3.0	2.2	3.2



#51
 Chlorobenzene
 Concen: 52.556 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.3	41.5
77	63.3	50.1	75.1

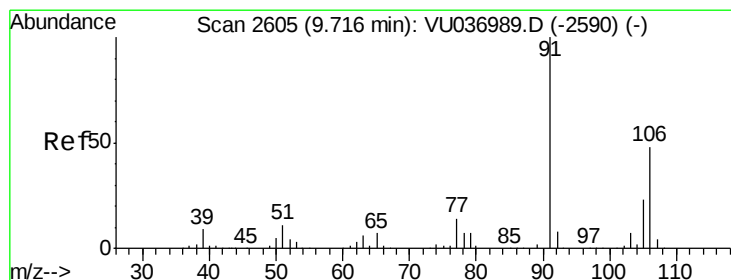
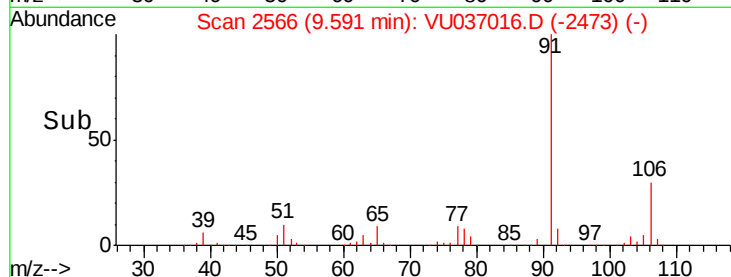
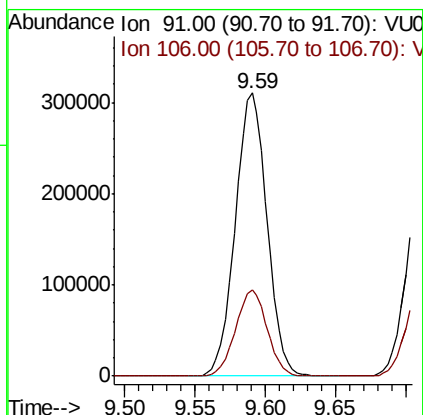
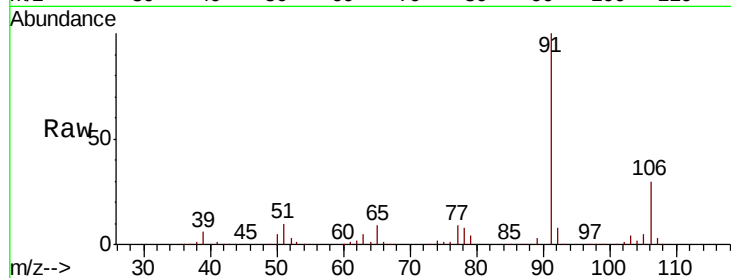




#52
Ethylbenzene
Concen: 51.946 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

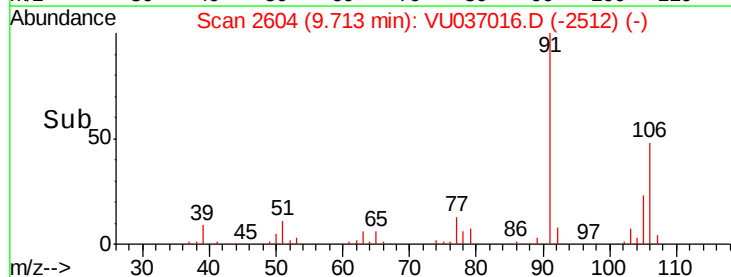
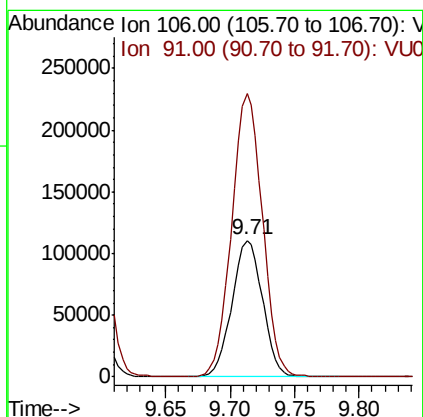
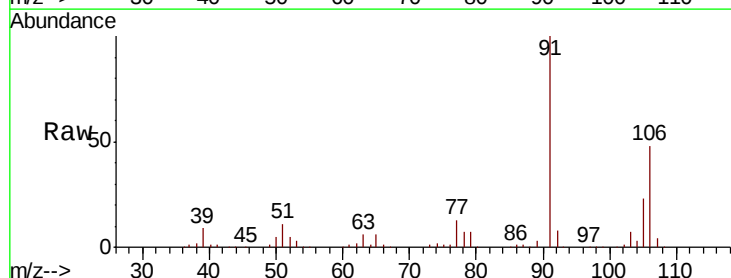
Instrument :
MSVOA_U
ClientSampleId :

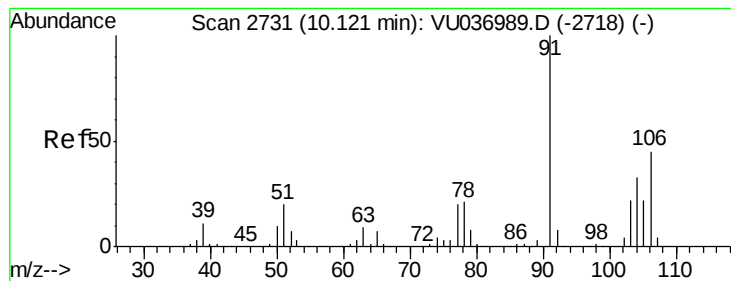
Tot Ion: 91 Resp: 488875
Ion Ratio Lower Upper
91 100
106 30.3 21.1 39.1



#53
m,p-Xylene
Concen: 52.905 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Tgt Ion: 106 Resp: 182637
Ion Ratio Lower Upper
106 100
91 206.9 145.3 269.9





#54

o-xylene

Concen: 52.833 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

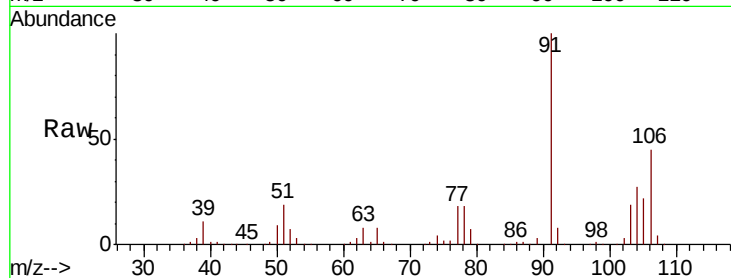
ClientSampleId :

Tot Ion:106 Resp: 181911

Ion Ratio Lower Upper

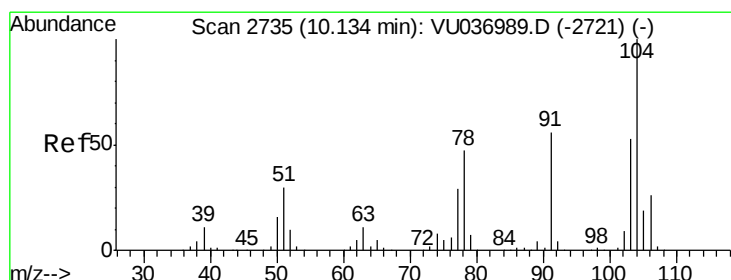
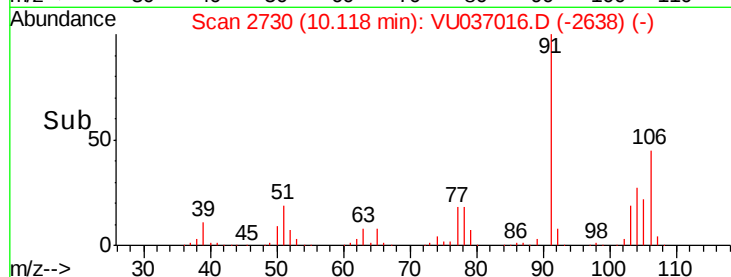
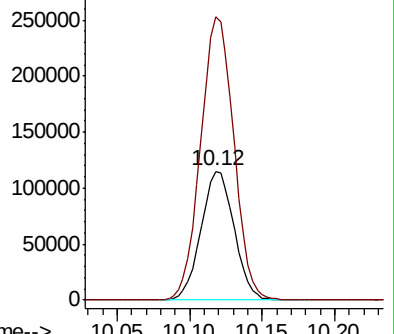
106 100

91 220.3 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.809 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU037016.D

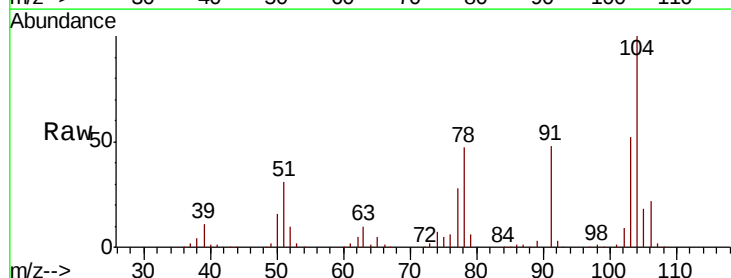
Acq: 02 Mar 2020 22:11

Tgt Ion:104 Resp: 302867

Ion Ratio Lower Upper

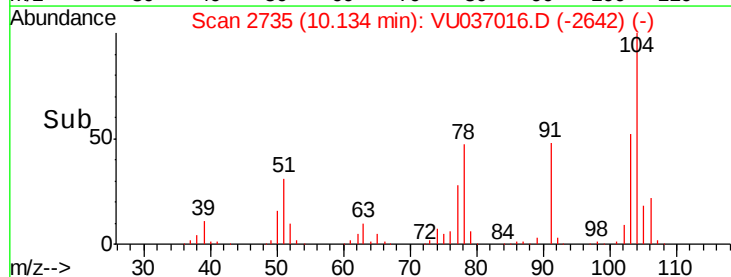
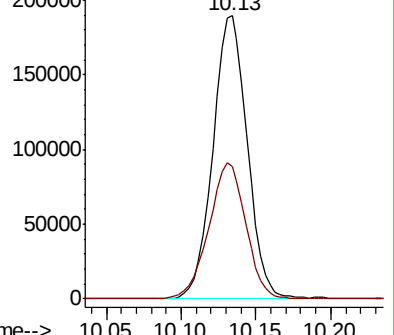
104 100

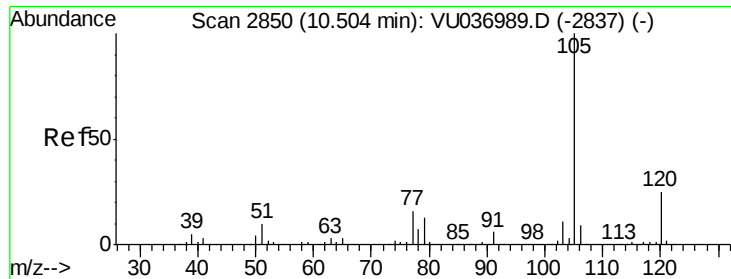
78 46.9 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.434 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampleId :

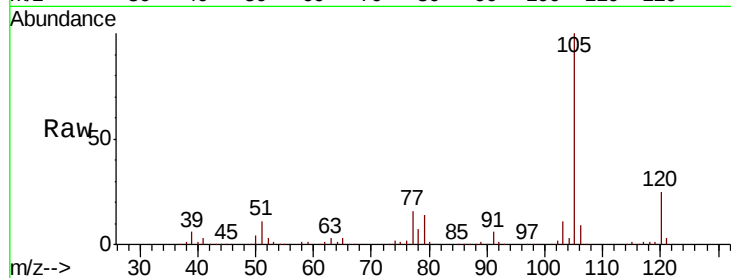
Tot Ion:105 Resp: 463697

Ion Ratio Lower Upper

105 100

120 25.4 20.5 30.7

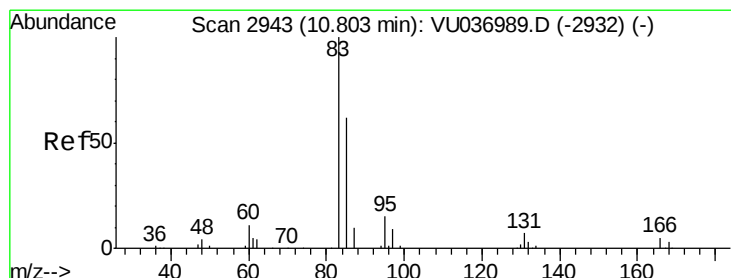
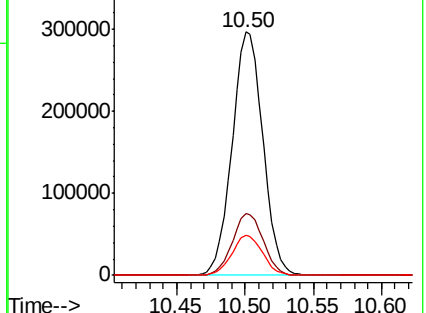
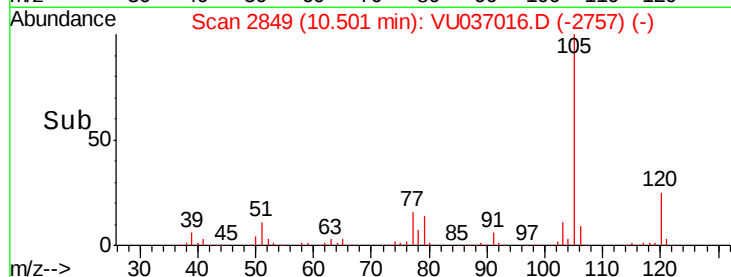
77 16.5 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 55.173 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

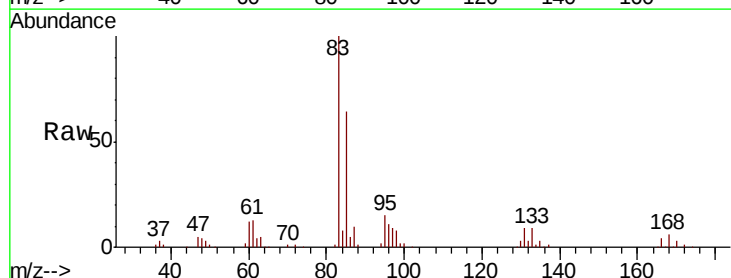
Tgt Ion: 83 Resp: 192449

Ion Ratio Lower Upper

83 100

85 63.8 45.5 84.5

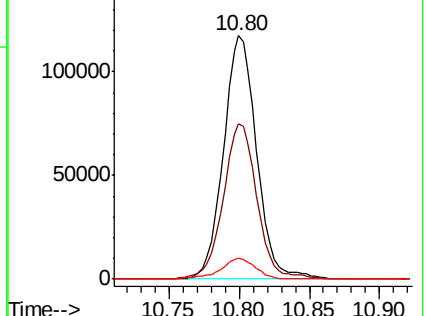
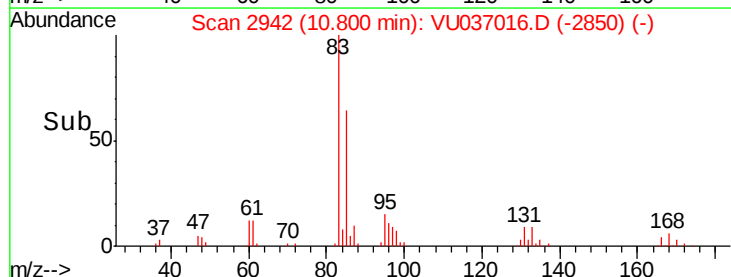
131 8.7 6.8 10.2

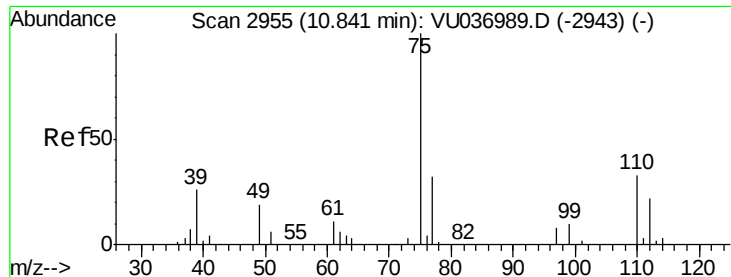


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

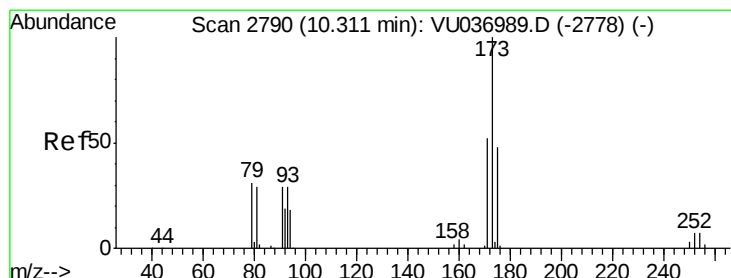
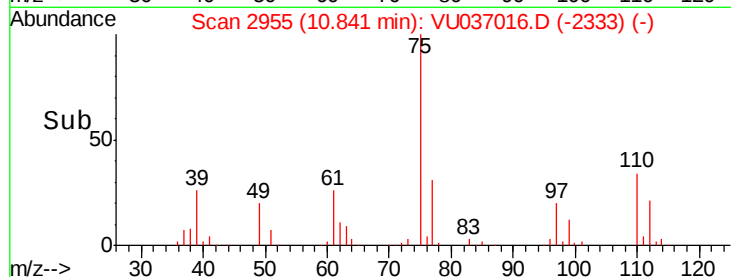
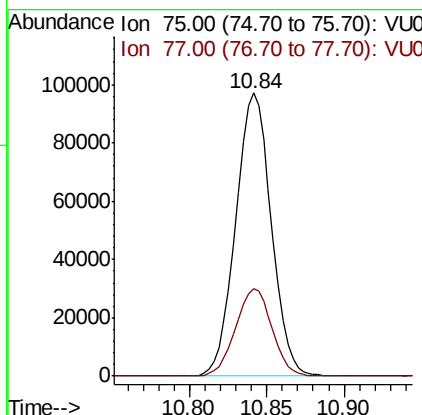
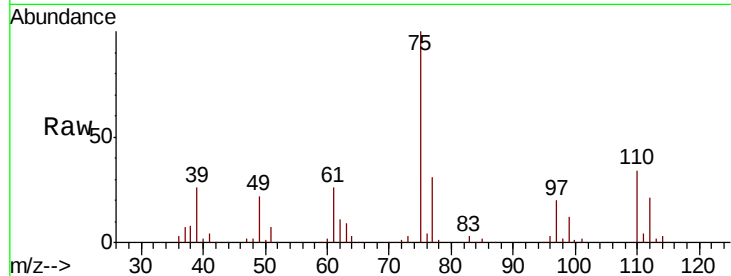




#59
 1,2,3-Trichloropropane
 Concen: 54.810 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

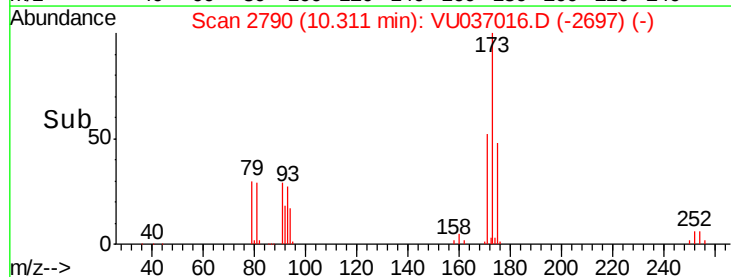
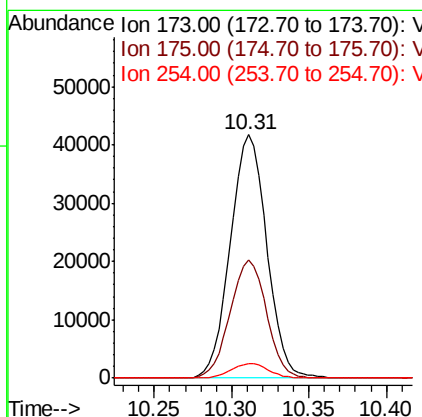
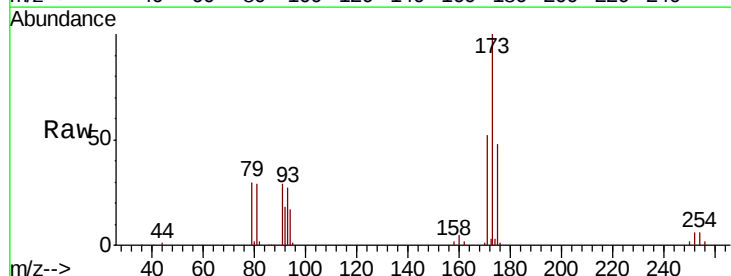
Instrument :
 MSVOA_U
 ClientSampleId :

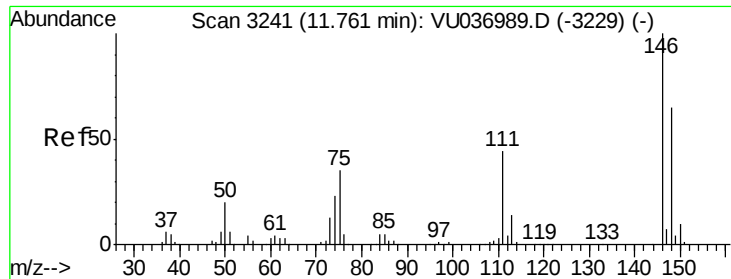
Tot Ion: 75 Resp: 154703
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.2 39.2



#61
 Bromoform
 Concen: 54.296 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

Tgt Ion: 173 Resp: 68310
 Ion Ratio Lower Upper
 173 100
 175 48.2 39.0 58.6
 254 6.1 4.6 6.8





#62

1,3-Dichlorobenzene

Concen: 53.564 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. -0.00 min

Lab File: VU037016.D

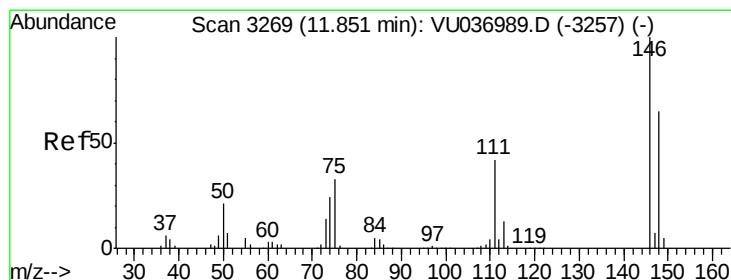
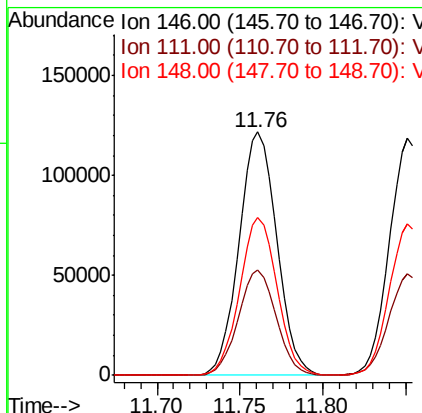
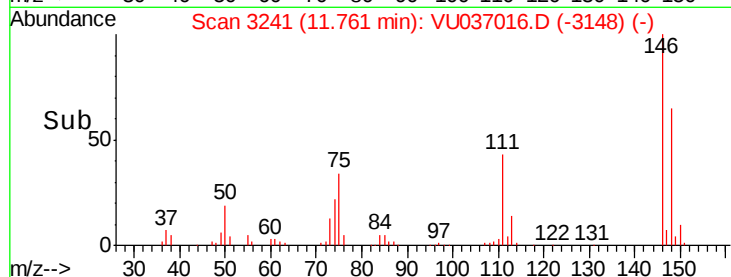
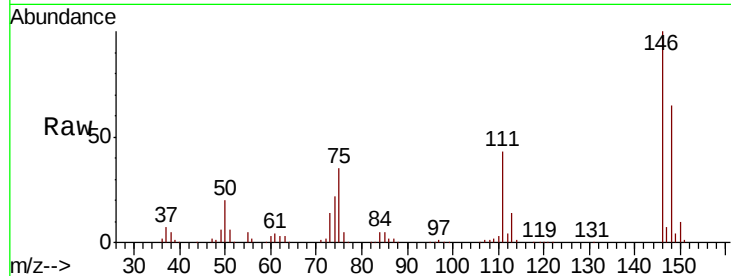
Acq: 02 Mar 2020 22:11

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146	Resp:	193357
Ion Ratio	Lower	Upper
146	100	
111	43.0	30.7 56.9
148	64.7	44.2 82.2



#63

1,4-Dichlorobenzene

Concen: 52.636 ug/L

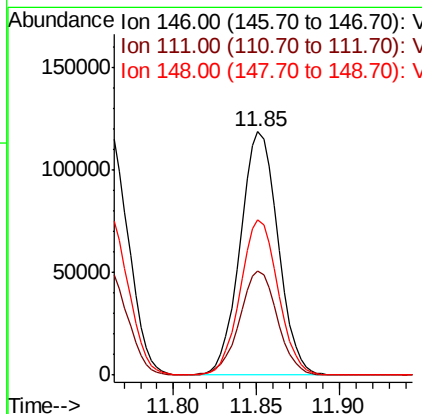
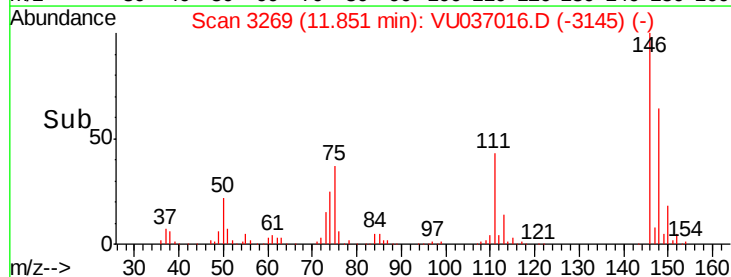
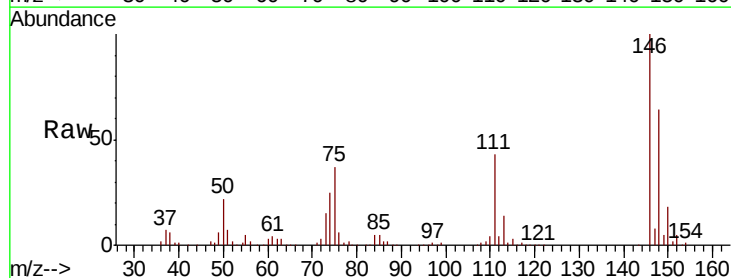
RT: 11.85 min Scan# 3269

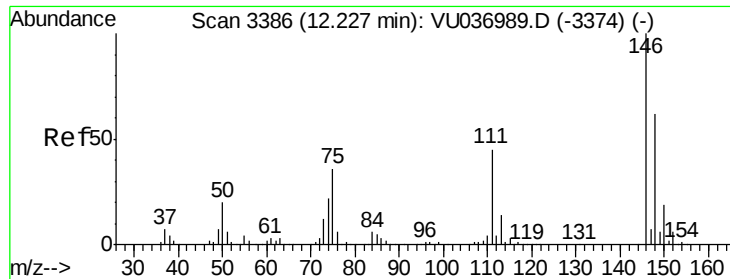
Delta R.T. 0.00 min

Lab File: VU037016.D

Acq: 02 Mar 2020 22:11

Tgt Ion:146	Resp:	187725
Ion Ratio	Lower	Upper
146	100	
111	43.0	29.8 55.4
148	63.9	45.1 83.9

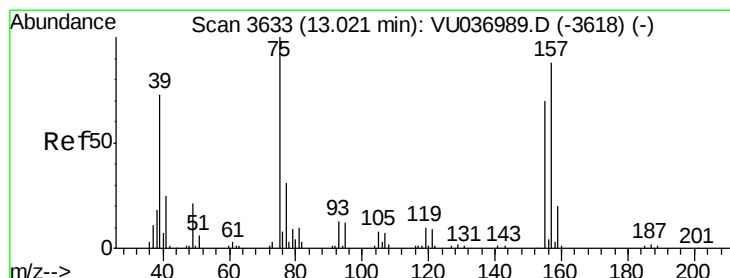
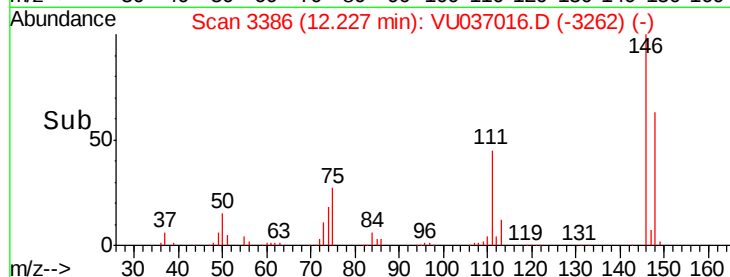
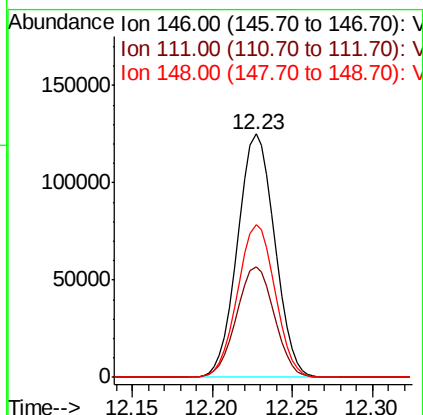
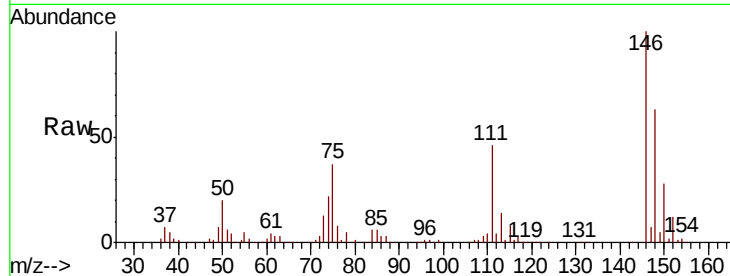




#65
 1,2-Dichlorobenzene
 Concen: 54.944 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

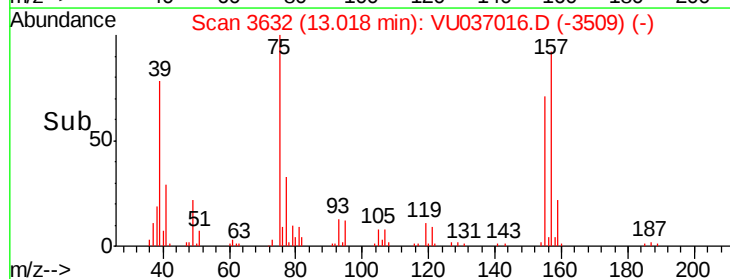
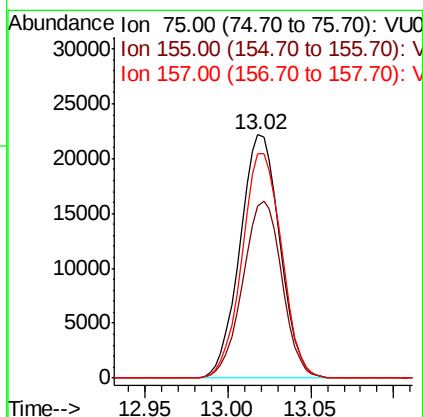
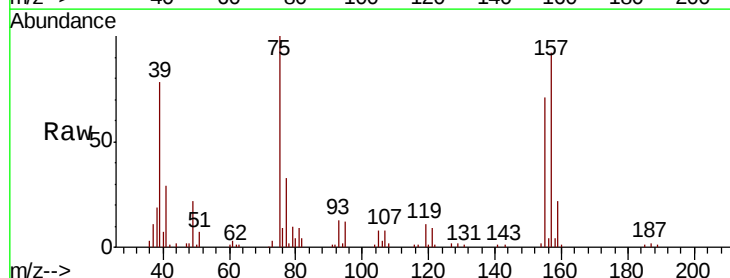
Instrument :
 MSVOA_U
 ClientSampleId :

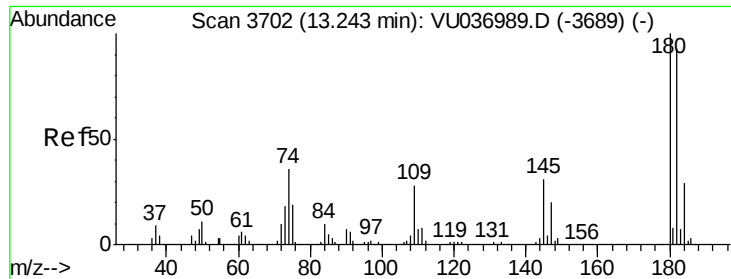
Tot Ion:146 Resp: 198037
 Ion Ratio Lower Upper
 146 100
 111 45.6 35.4 53.0
 148 62.6 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.173 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

Tgt Ion: 75 Resp: 37307
 Ion Ratio Lower Upper
 75 100
 155 70.7 55.7 83.5
 157 92.1 73.0 109.6

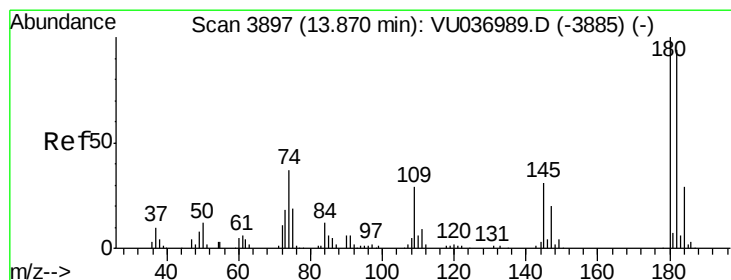
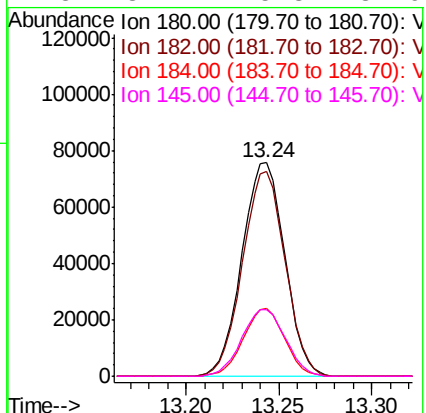
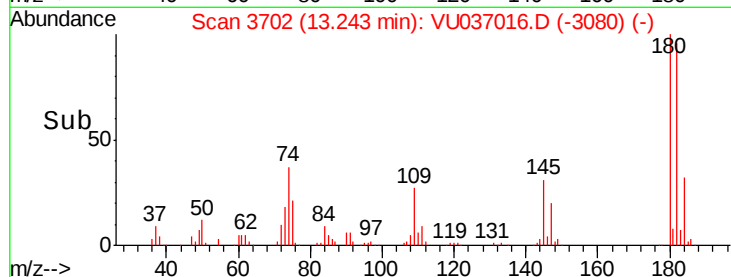
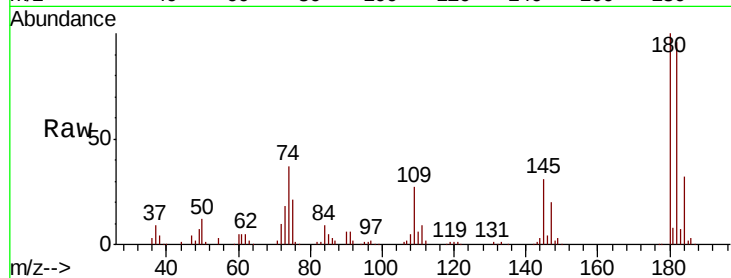




#67
 1,3,5-Trichlorobenzene
 Concen: 53.131 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

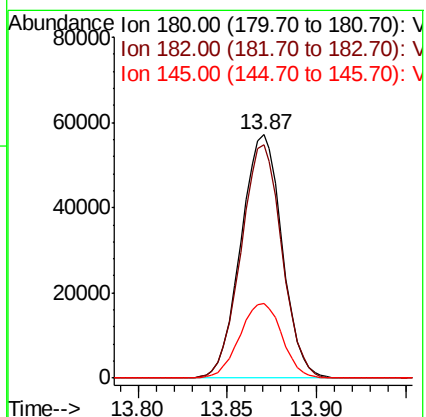
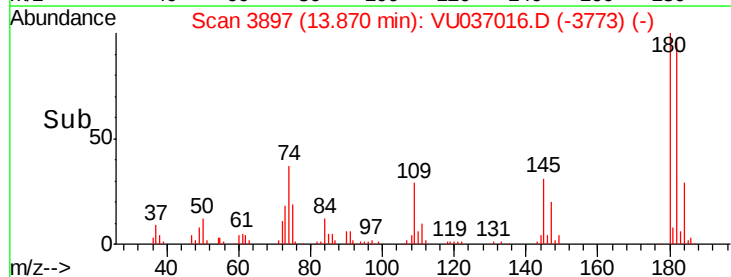
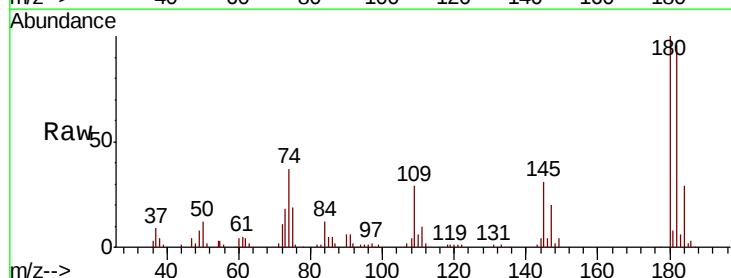
Instrument :
 MSVOA_U
 ClientSampled :

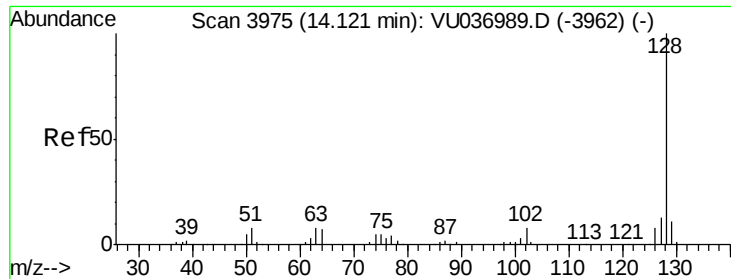
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
184	30.4	24.2	36.2
145	31.7	25.3	37.9



#68
 1,2,4-trichlorobenzene
 Concen: 53.529 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. -0.00 min
 Lab File: VU037016.D
 Acq: 02 Mar 2020 22:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.3	112.9
145	31.6	26.2	39.4

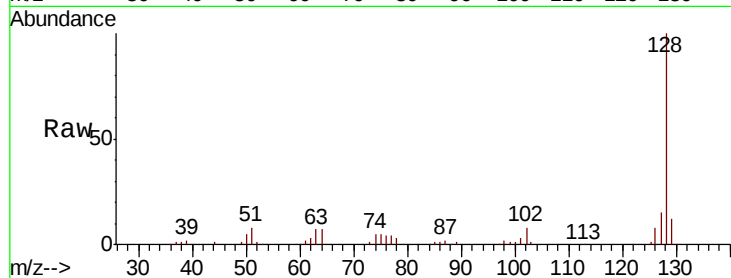




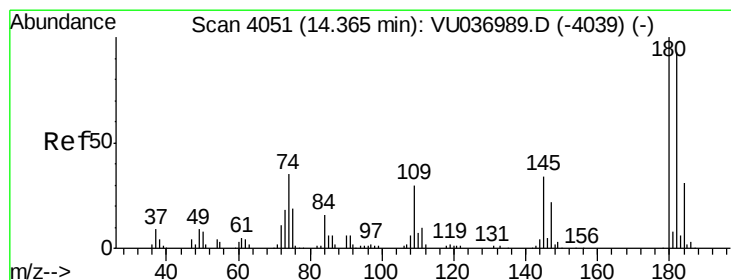
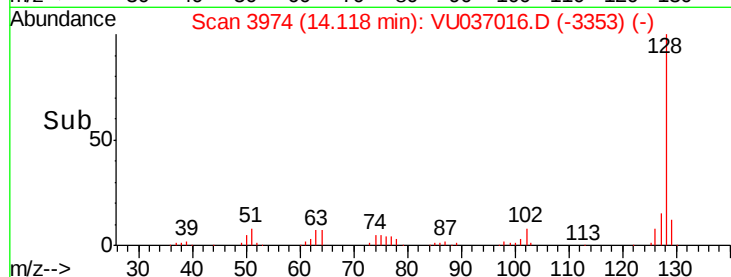
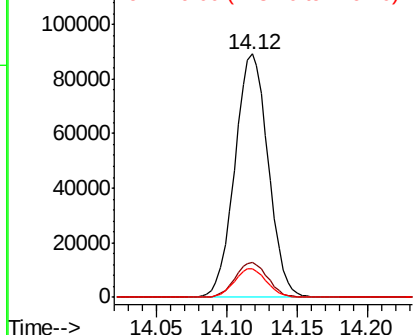
#69
Naphthalene
Concen: 48.809 ug/L
RT: 14.12 min Scan# 3974
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:128 Resp: 147911
Ion Ratio Lower Upper
128 100
127 14.1 11.0 16.4
129 11.3 8.6 12.8

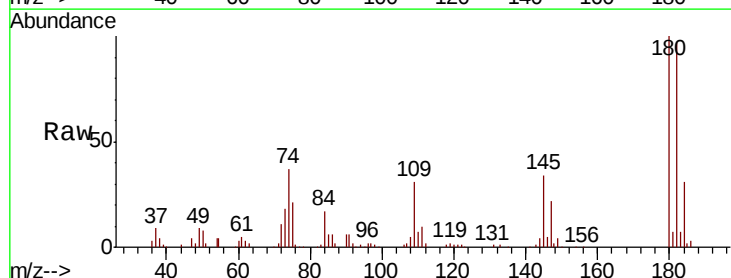


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70
1,2,3-Trichlorobenzene
Concen: 54.097 ug/L
RT: 14.36 min Scan# 4050
Delta R.T. -0.00 min
Lab File: VU037016.D
Acq: 02 Mar 2020 22:11

Tgt Ion:180 Resp: 92803
Ion Ratio Lower Upper
180 100
182 96.8 77.0 115.6
145 34.6 28.1 42.1



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

