

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032720\
 Data File : VU037379.D
 Acq On : 27 Mar 2020 18:43
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 28 01:44:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032720WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 28 01:22:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	288784	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	272961	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	143066	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	92432	49.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.80%
7) Chloroethane-d5	1.93	69	72592	47.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.90%
11) 1,1-Dichloroethene-d2	2.59	63	189628	47.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.20%
21) 2-Butanone-d5	4.67	46	161540	97.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.03%
24) Chloroform-d	5.11	84	189997	49.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.02%
26) 1,2-Dichloroethane-d4	5.74	65	123372	49.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.70%
32) Benzene-d6	5.76	84	368720	49.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.72	67	120983	49.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.60%
41) Toluene-d8	7.92	98	355301	50.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.60%
43) trans-1,3-Dichloropropene-	8.20	79	68085	48.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.16%
47) 2-Hexanone-d5	8.65	63	128579	92.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.16%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	176847	48.63	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.26%
64) 1,2-Dichlorobenzene-d4	12.21	152	141677	48.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	124012	41.394	ug/L	99
3) Chloromethane	1.54	50	104185	40.518	ug/L	98
5) Vinyl chloride	1.62	62	106558	41.677	ug/L	99
6) Bromomethane	1.87	94	56106	46.796	ug/L	93
8) Chloroethane	1.95	64	56905	40.575	ug/L	99
9) Trichlorofluoromethane	2.16	101	139821	41.354	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	87533	40.264	ug/L	98
12) 1,1-Dichloroethene	2.60	96	89255	40.207	ug/L	99
13) Acetone	2.66	43	99272	75.726	ug/L	97
14) Carbon disulfide	2.82	76	300333	40.999	ug/L	99
15) Methyl Acetate	2.98	43	115375	39.590	ug/L	100
16) Methylene chloride	3.08	84	102268	40.210	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	96071	41.157	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	320213	40.470	ug/L	98
19) 1,1-Dichloroethane	3.91	63	175539	40.592	ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	105568	40.609	ug/L #	96
22) 2-Butanone	4.75	43	169738	82.002	ug/L	98

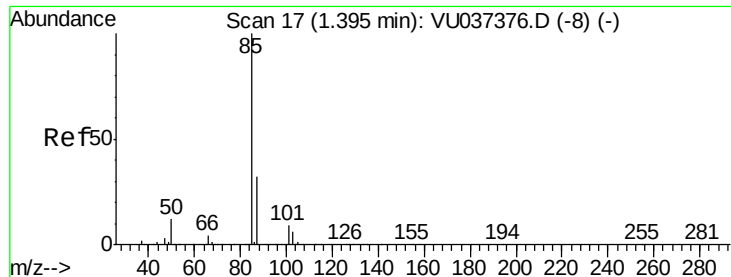
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032720\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	57025	41.925	ug/L	99
25) Chloroform	5.13	83	179907	40.596	ug/L	100
27) 1,2-Dichloroethane	5.83	62	149120	42.279	ug/L	100
29) Cyclohexane	5.42	56	163920	41.720	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	169596	41.751	ug/L	99
31) Carbon tetrachloride	5.56	117	145952	41.597	ug/L	100
33) Benzene	5.81	78	399577	41.496	ug/L	100
34) Trichloroethene	6.57	95	106368	41.337	ug/L	97
35) Methylcyclohexane	6.79	83	165398	40.808	ug/L	99
37) 1,2-Dichloropropane	6.82	63	107161	41.914	ug/L	99
38) Bromodichloromethane	7.13	83	147604	41.200	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	181705	42.214	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	328179	81.216	ug/L #	100
42) Toluene	7.99	91	434827	41.706	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	175650	40.927	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	101554	40.999	ug/L	99
46) Tetrachloroethene	8.58	164	81441	41.221	ug/L	97
48) 2-Hexanone	8.71	43	260098	81.732	ug/L	100
49) Dibromochloromethane	8.83	129	124531	41.677	ug/L	98
50) 1,2-Dibromoethane	8.95	107	117167	41.523	ug/L	100
51) Chlorobenzene	9.47	112	273350	41.140	ug/L	100
52) Ethylbenzene	9.59	91	488281	41.685	ug/L	98
53) m,p-Xylene	9.71	106	184829	41.234	ug/L	100
54) o-xylene	10.12	106	180914	41.413	ug/L	97
55) Styrene	10.13	104	315544	41.135	ug/L	100
56) Isopropylbenzene	10.50	105	480294	41.536	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	174707	40.174	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	142882	40.632	ug/L	99
61) Bromoform	10.31	173	100322	40.080	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	219617	39.377	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	225885	40.593	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	221452	40.186	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	51744	39.958	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	173876	40.160	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	171317	40.248	ug/L	100
69) Naphthalene	14.11	128	585572	40.826	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	174188	40.830	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 41.394 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

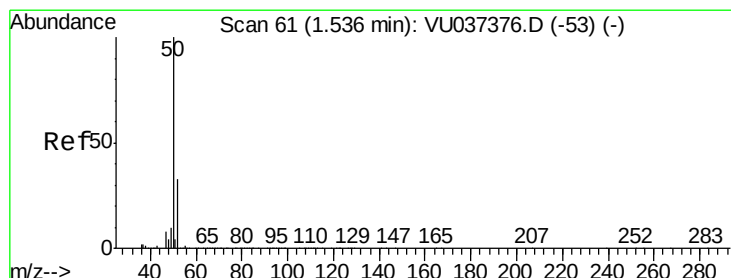
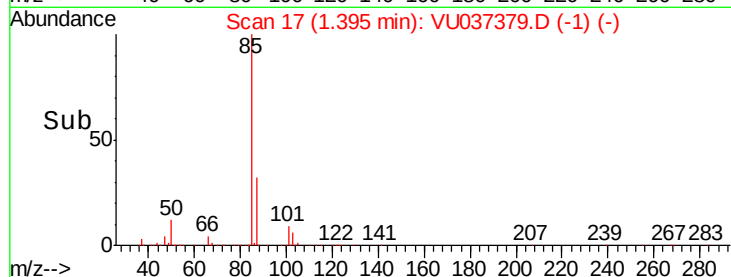
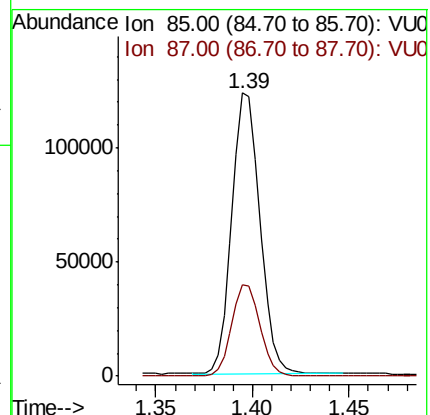
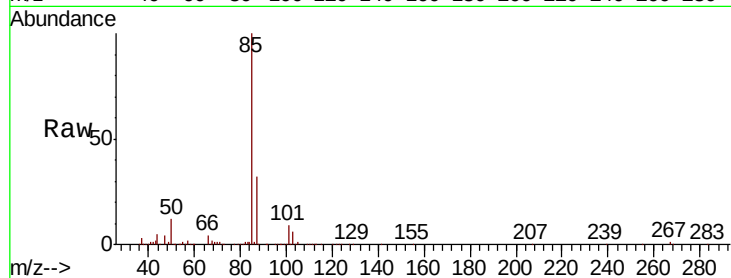
ClientSampleId :

Tot Ion: 85 Resp: 124012

Ion Ratio Lower Upper

85 100

87 33.0 26.1 39.1



#3

Chloromethane

Concen: 40.518 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037379.D

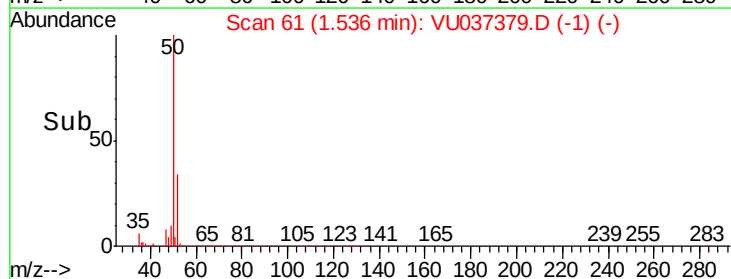
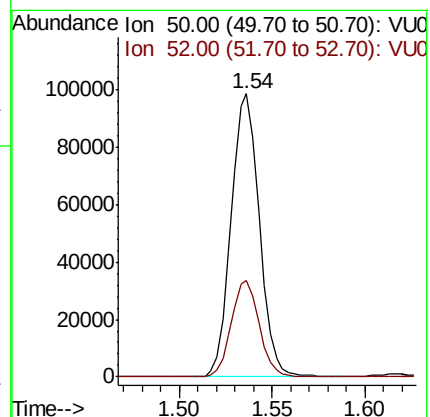
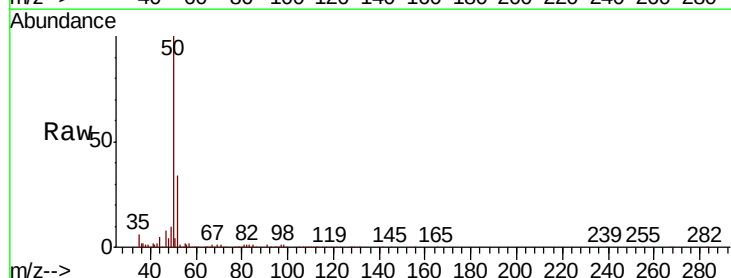
Acq: 27 Mar 2020 18:43

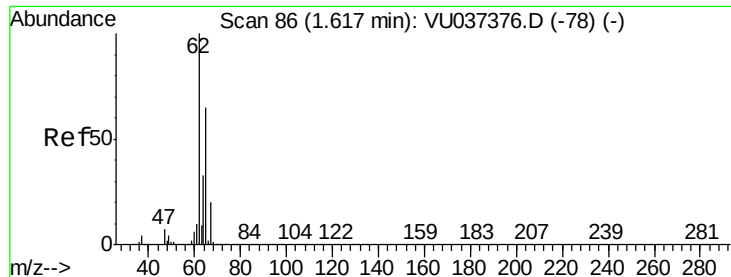
Tgt Ion: 50 Resp: 104185

Ion Ratio Lower Upper

50 100

52 34.3 23.2 43.2





#5

Vinyl chloride

Concen: 41.677 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

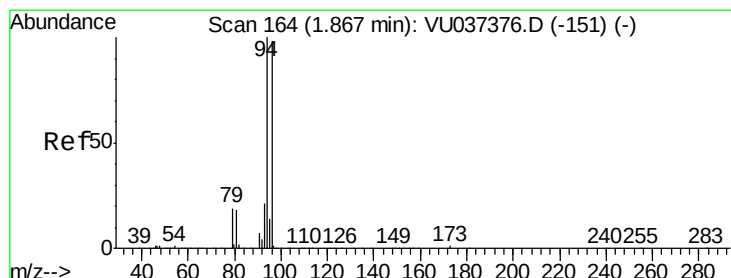
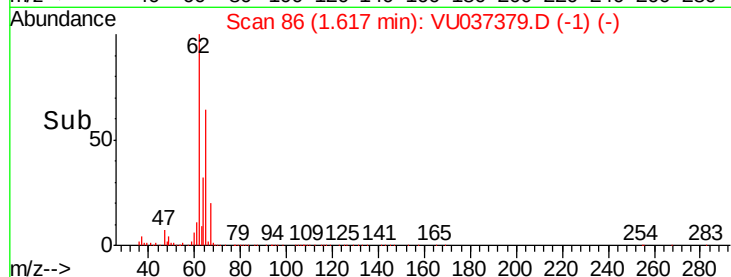
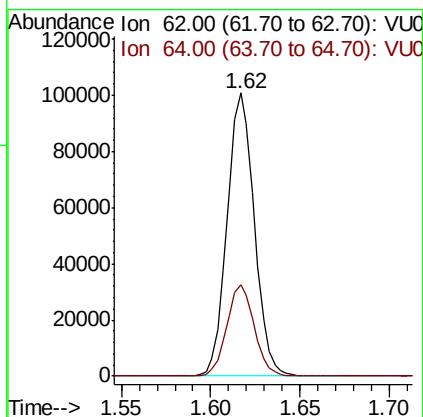
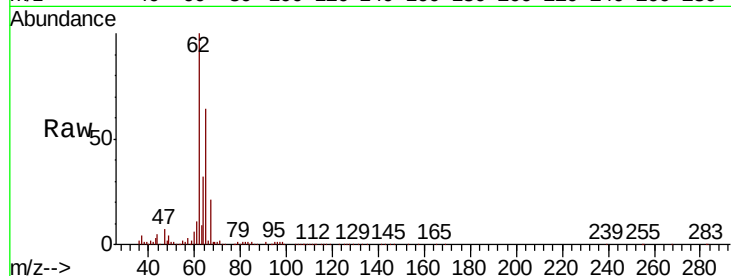
ClientSampled :

Tot Ion: 62 Resp: 106558

Ion Ratio Lower Upper

62 100

64 32.4 23.0 42.8



#6

Bromomethane

Concen: 46.796 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU037379.D

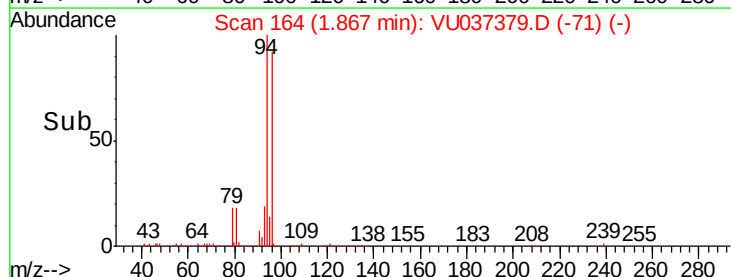
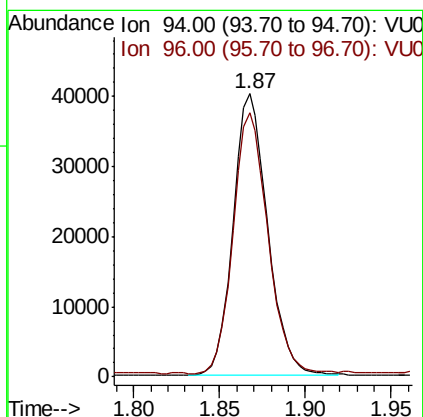
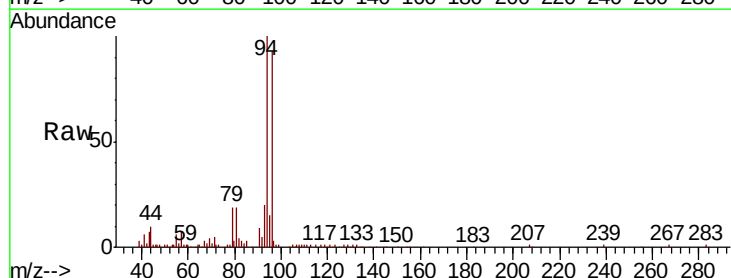
Acq: 27 Mar 2020 18:43

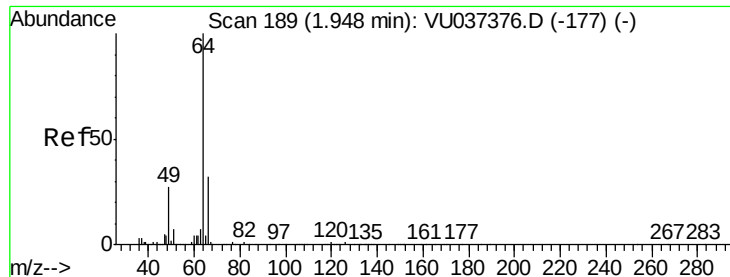
Tgt Ion: 94 Resp: 56106

Ion Ratio Lower Upper

94 100

96 93.2 69.9 129.7

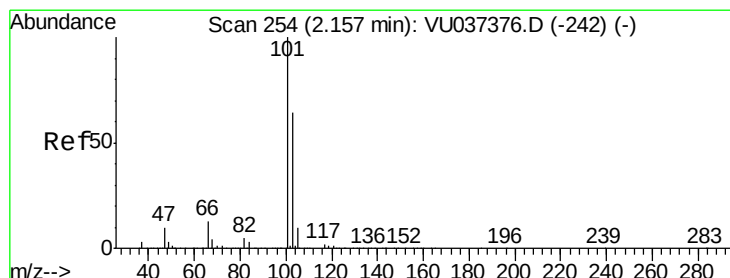
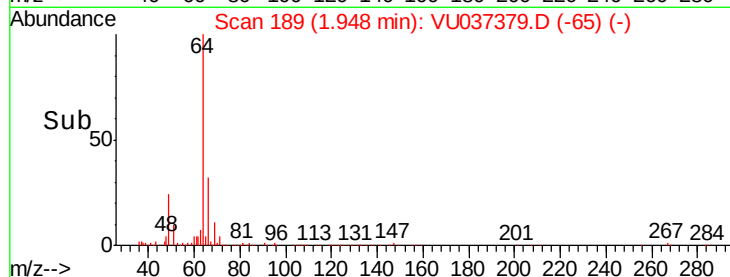
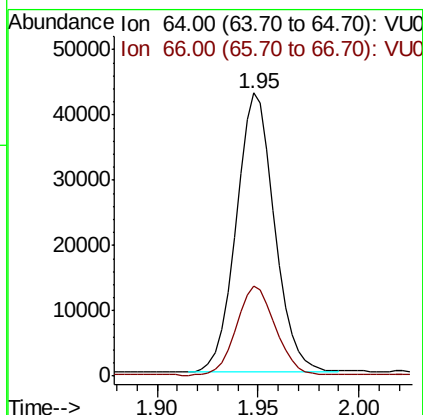
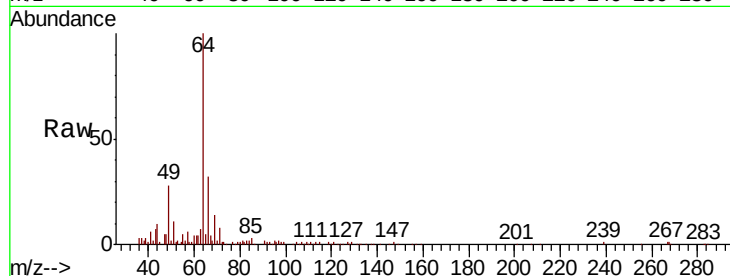




#8
Chloroethane
Concen: 40.575 ug/L
RT: 1.95 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

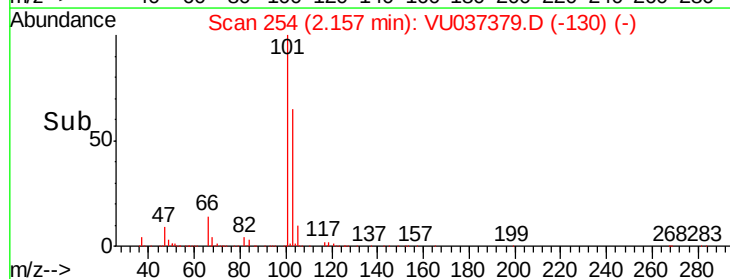
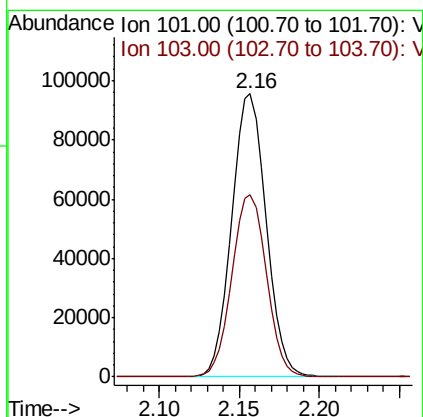
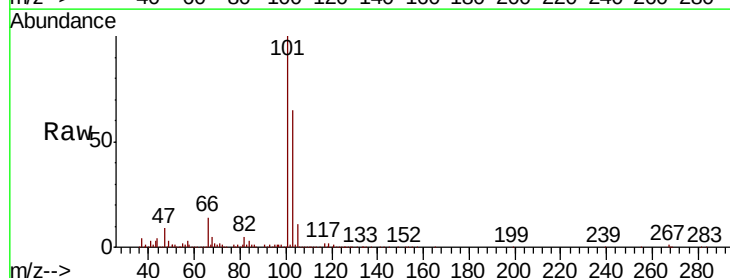
Instrument :
MSVOA_U
ClientSampleId :

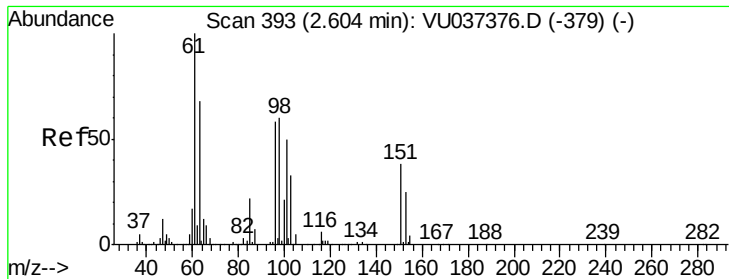
Tot Ion: 64 Resp: 56905
Ion Ratio Lower Upper
64 100
66 31.8 22.8 42.4



#9
Trichlorofluoromethane
Concen: 41.354 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Tgt Ion: 101 Resp: 139821
Ion Ratio Lower Upper
101 100
103 64.7 51.8 77.8





#10

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

Concen: 40.264 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

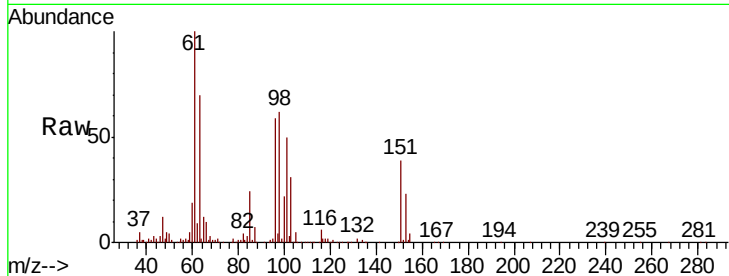
Tot Ion:101 Resp: 87533

Ion Ratio Lower Upper

101 100

85 44.7 35.6 53.4

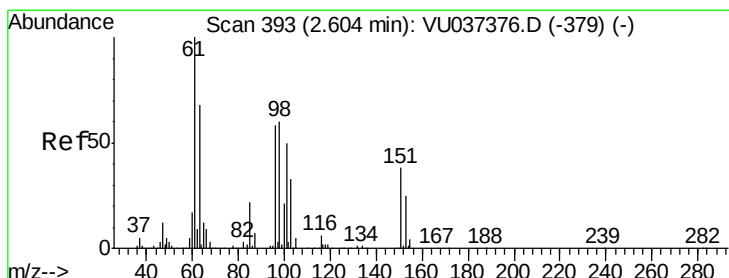
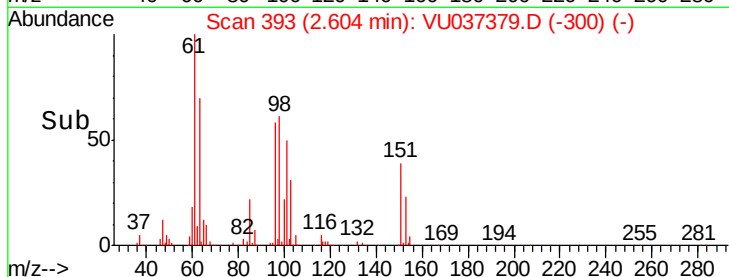
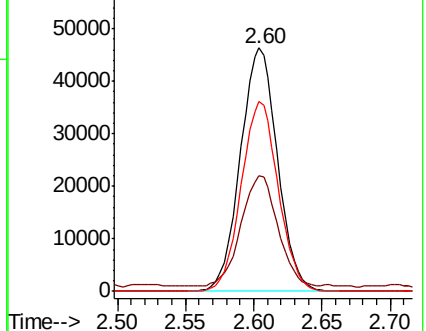
151 77.7 60.2 90.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 40.207 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

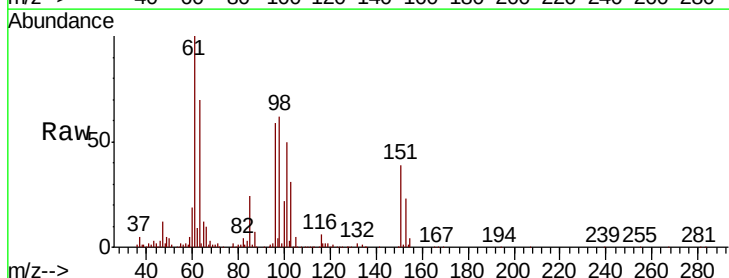
Tgt Ion: 96 Resp: 89255

Ion Ratio Lower Upper

96 100

61 170.6 120.0 222.8

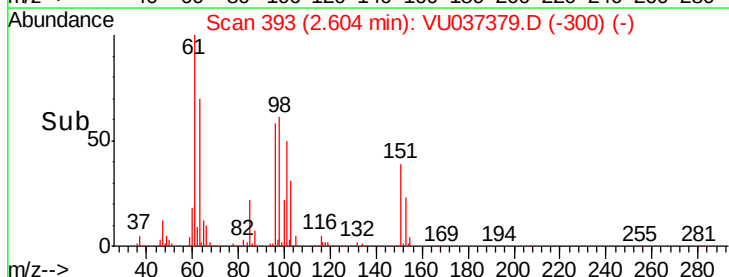
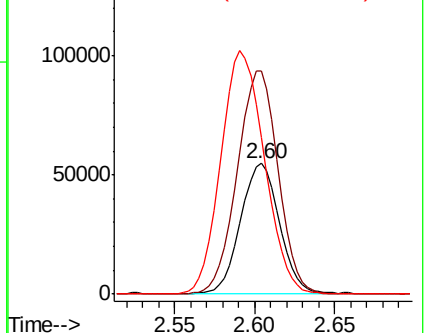
63 119.6 83.3 154.7

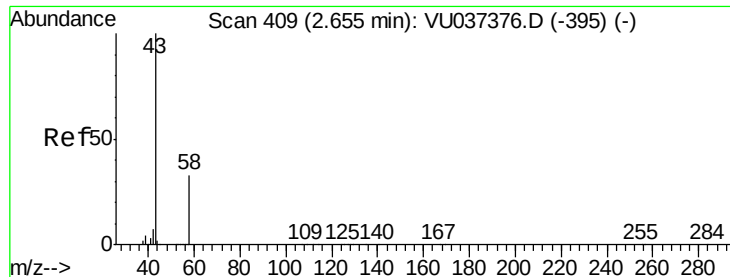


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 75.726 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

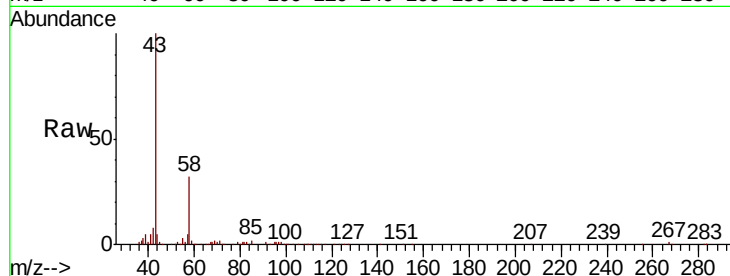
ClientSampleId :

Tot Ion: 43 Resp: 99272

Ion Ratio Lower Upper

43 100

58 33.1 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU037379.D (-395) (-)

Ion 58.00 (57.70 to 58.70): VU037379.D (-395) (-)

2.66

60000

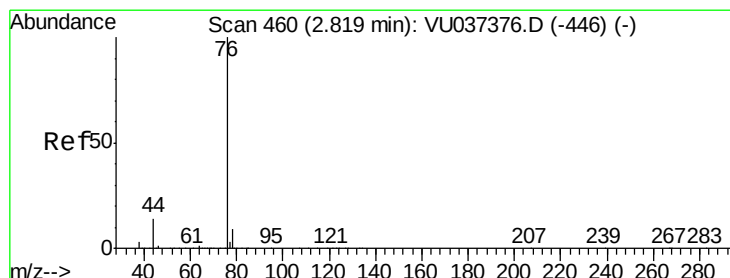
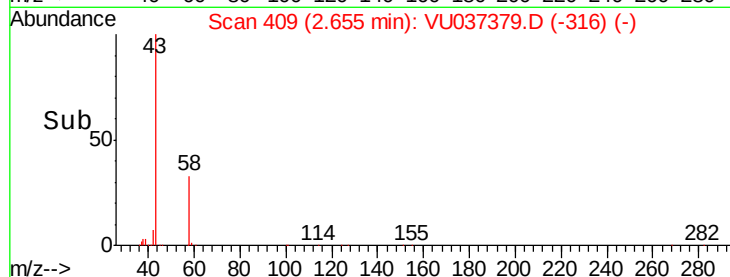
40000

20000

0

2.60 2.65 2.70 2.75

Time-->



#14

Carbon disulfide

Concen: 40.999 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037379.D

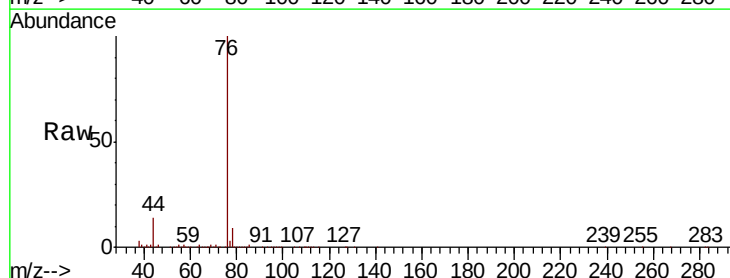
Acq: 27 Mar 2020 18:43

Tgt Ion: 76 Resp: 300333

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU037379.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037379.D (-367) (-)

2.82

200000

150000

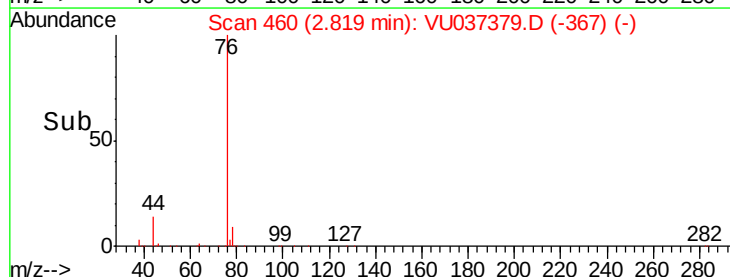
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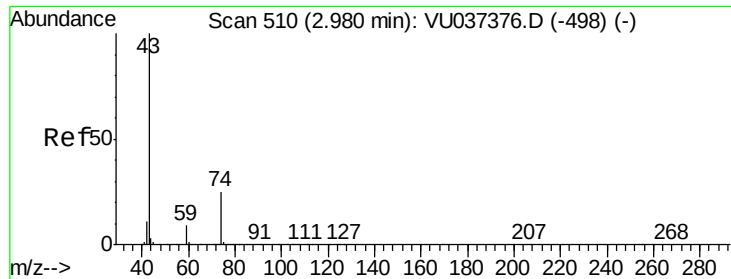
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2.80 2.90

Time-->

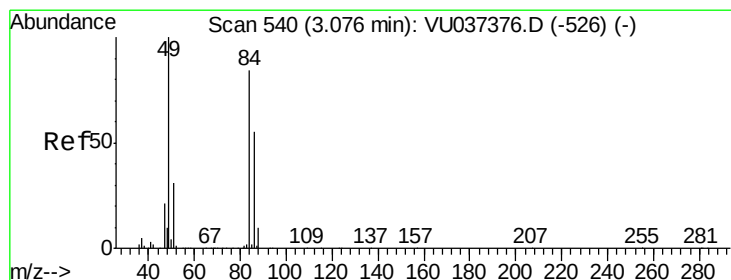
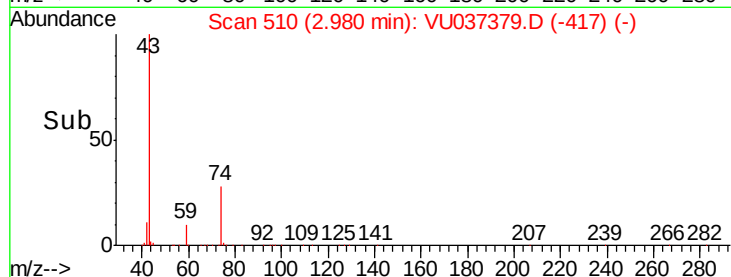
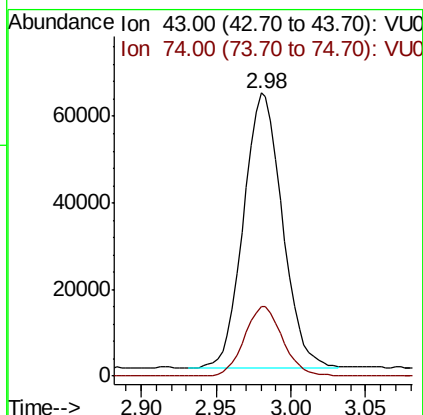
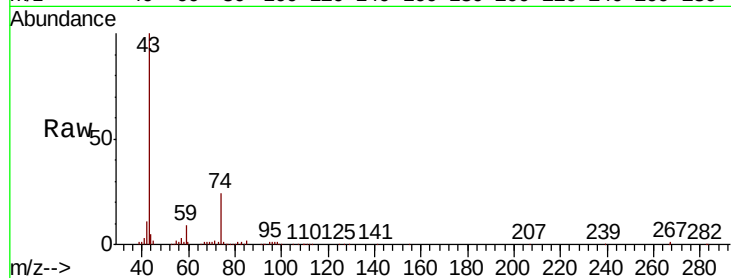




#15
Methvl Acetate
Concen: 39.590 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

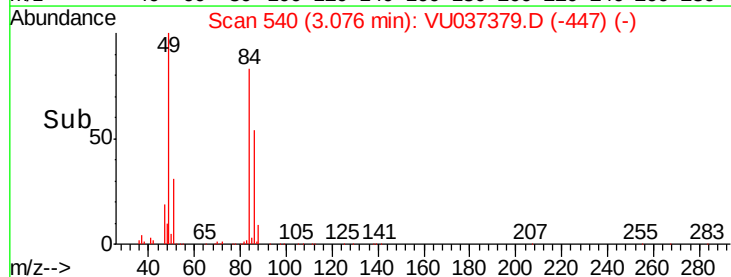
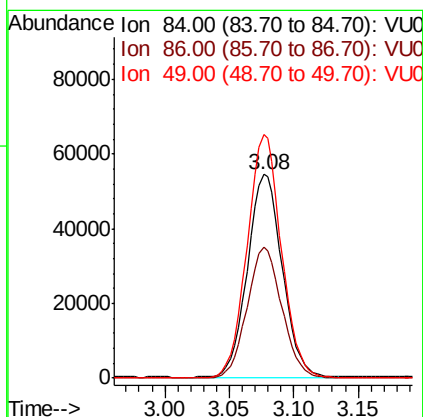
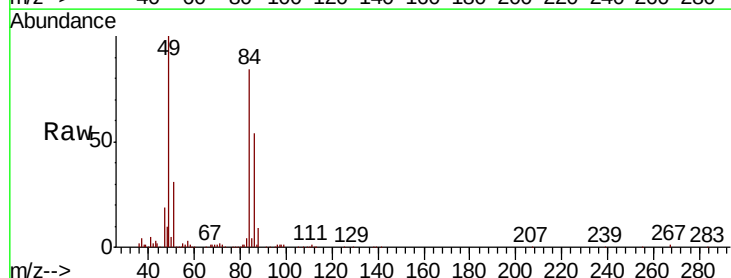
Instrument :
MSVOA_U
ClientSampleId :

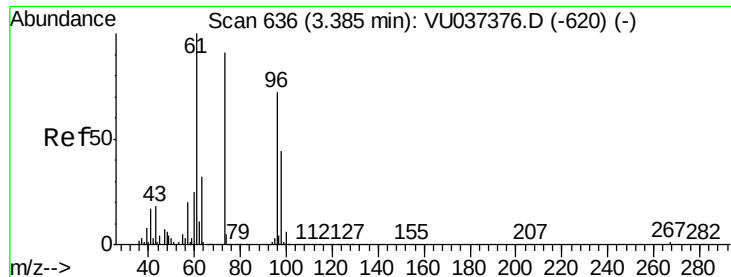
Tot Ion: 43 Resp: 115375
Ion Ratio Lower Upper
43 100
74 25.0 20.1 30.1



#16
Methylene chloride
Concen: 40.210 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Tgt Ion: 84 Resp: 102268
Ion Ratio Lower Upper
84 100
86 64.3 45.9 85.3
49 119.7 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 41.157 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

ClientSampled :

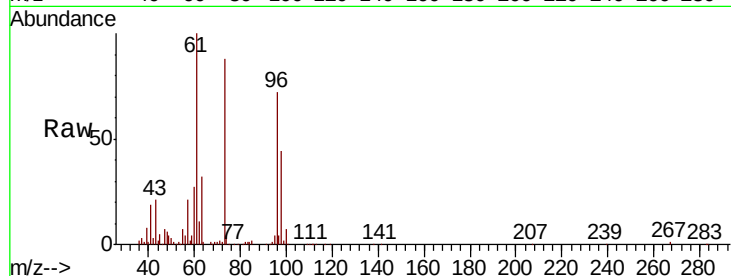
Tot Ion: 96 Resp: 96071

Ion Ratio Lower Upper

96 100

61 139.5 96.6 179.4

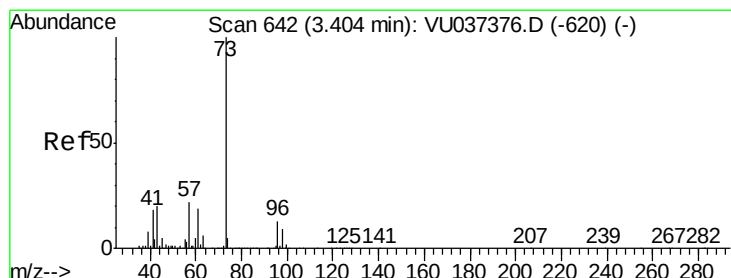
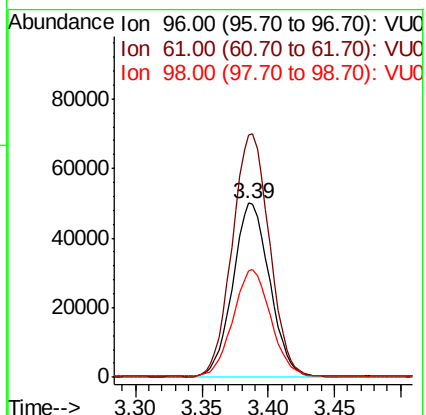
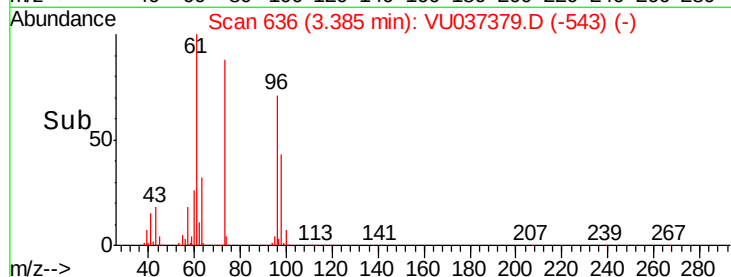
98 61.2 43.4 80.6



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: 40.470 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

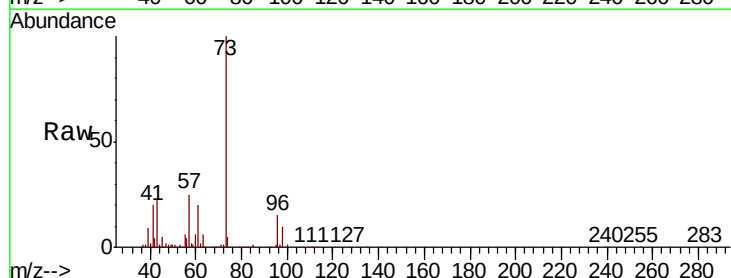
Tgt Ion: 73 Resp: 320213

Ion Ratio Lower Upper

73 100

43 21.4 16.2 24.4

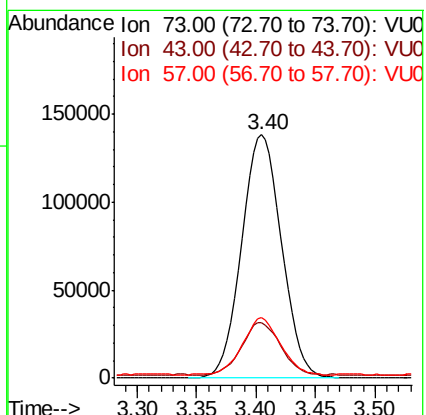
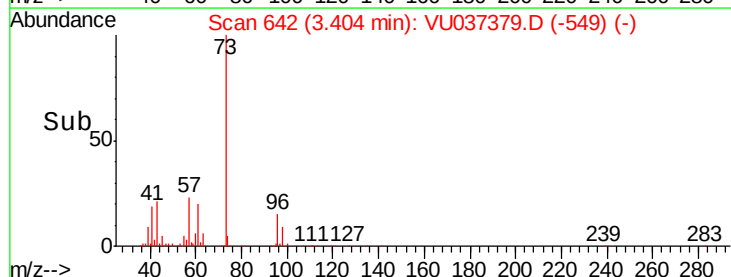
57 22.7 17.3 25.9

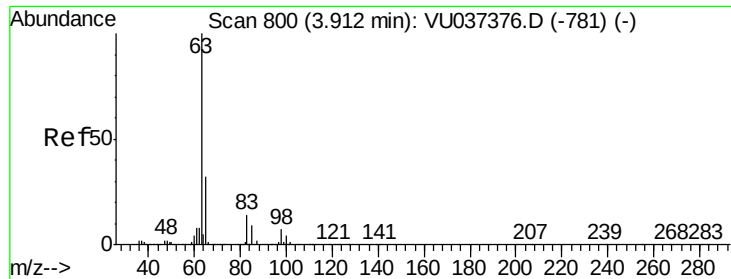


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

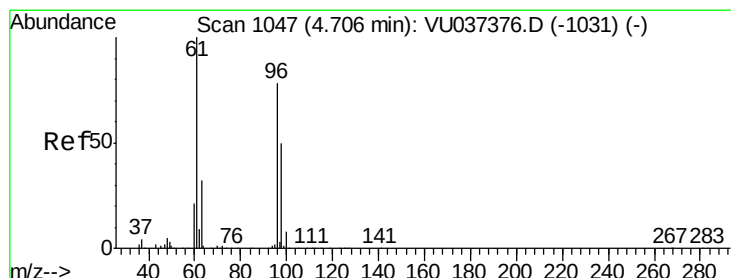
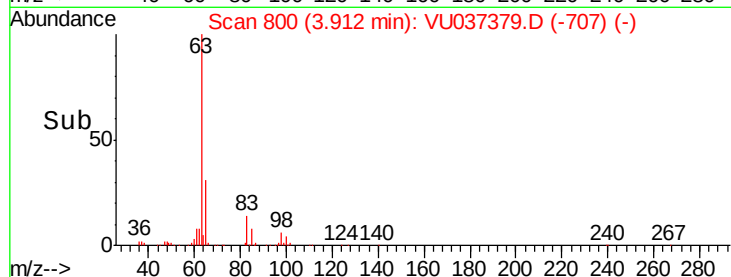
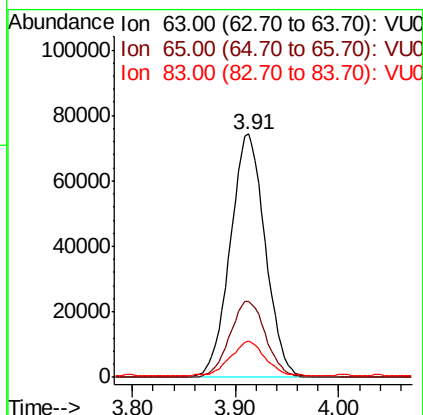
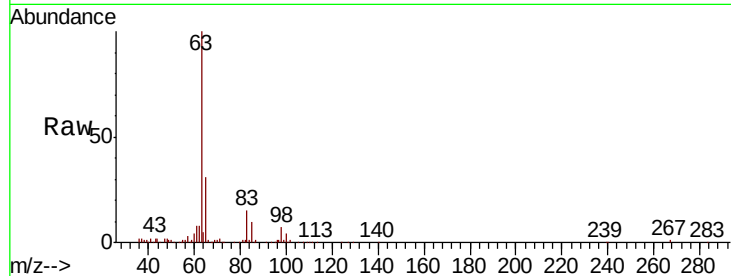




#19
 1,1-Dichloroethane
 Concen: 40.592 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

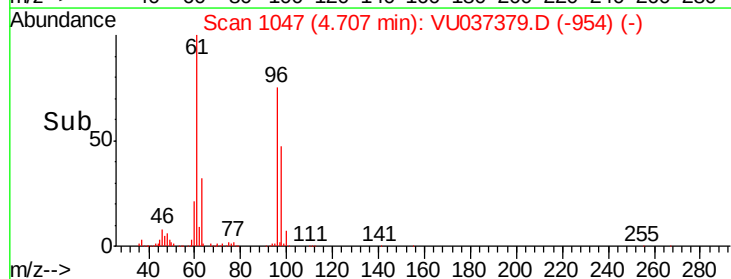
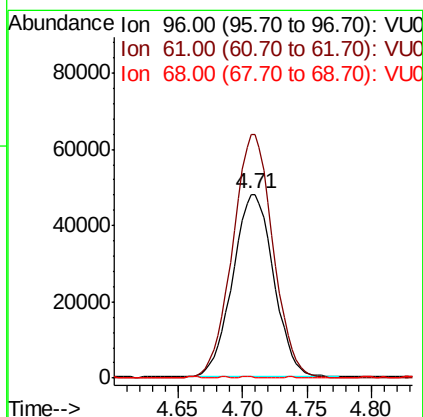
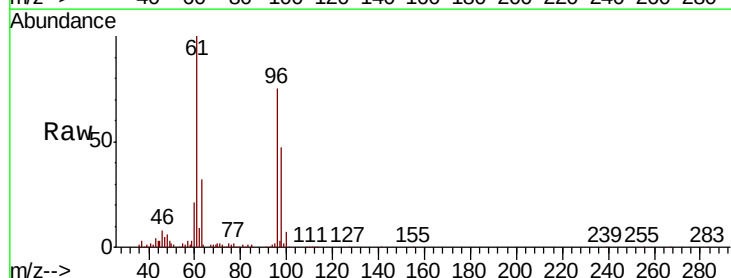
Instrument :
 MSVOA_U
 ClientSampleId :

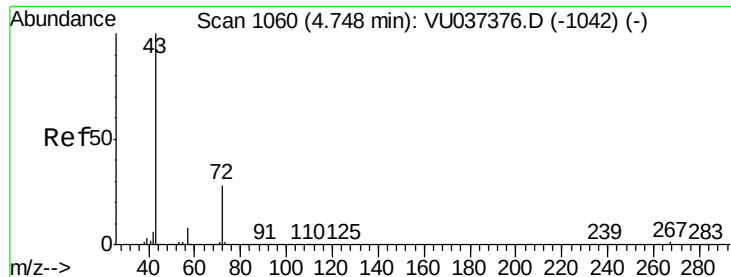
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.4	41.6
83	15.0	10.6	19.6



#20
 cis-1,2-Dichloroethene
 Concen: 40.609 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.7	89.4	166.0
68	0.7	0.3	0.7#

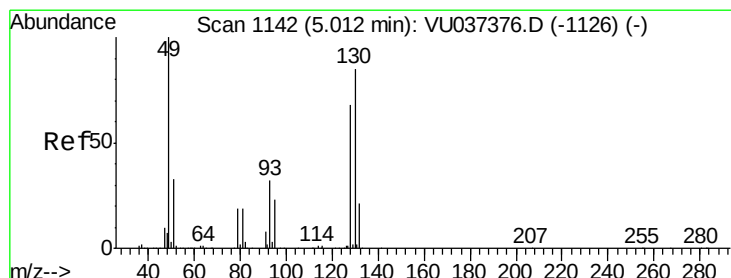
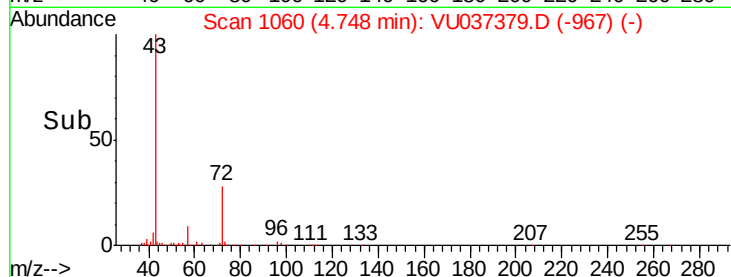
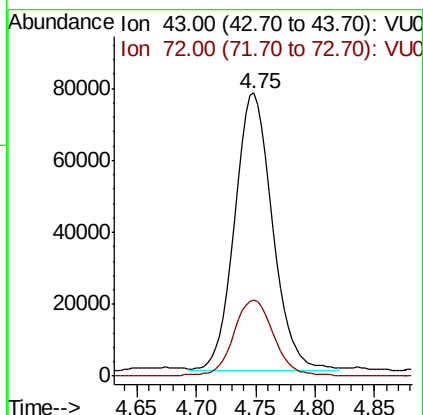
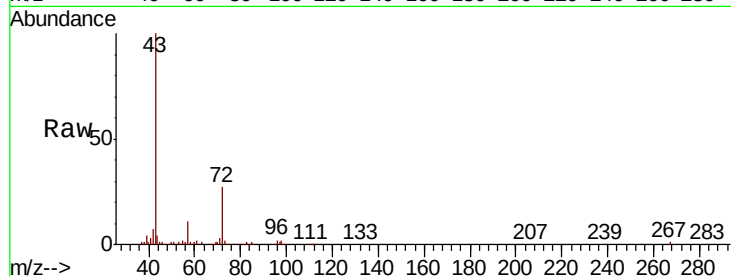




#22
2-Butanone
Concen: 82.002 ug/L
RT: 4.75 min Scan# 1060
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

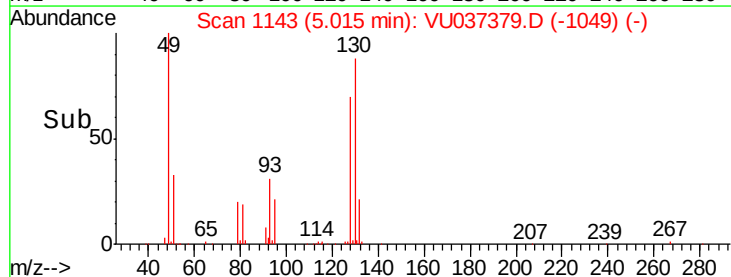
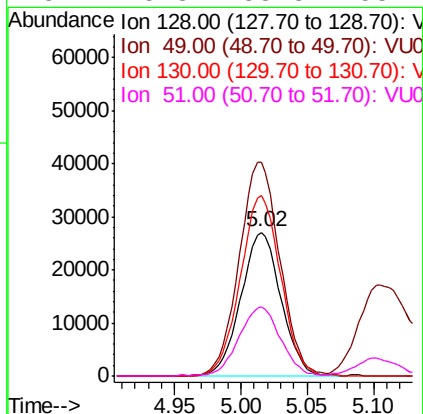
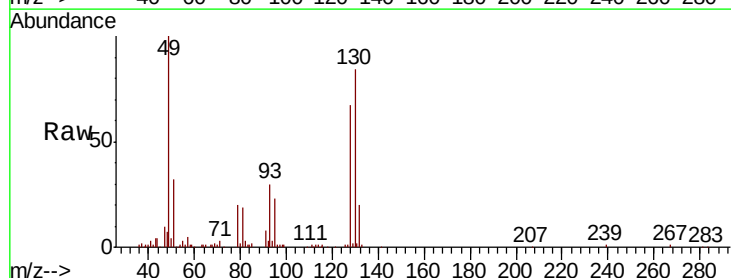
Instrument :
MSVOA_U
ClientSampleId :

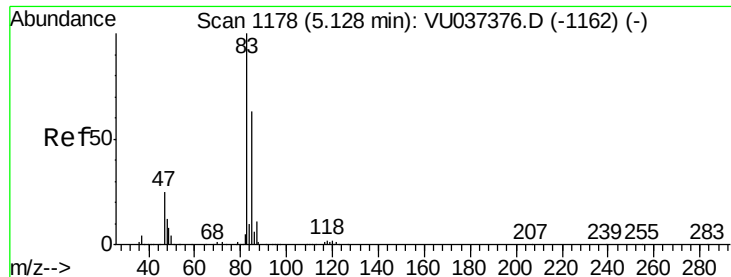
Tot Ion: 43 Resp: 169738
Ion Ratio Lower Upper
43 100
72 29.1 14.1 42.2



#23
Bromochloromethane
Concen: 41.925 ug/L
RT: 5.02 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Tgt Ion: 128 Resp: 57025
Ion Ratio Lower Upper
128 100
49 148.8 102.6 190.6
130 125.3 86.7 161.1
51 48.3 38.8 58.2

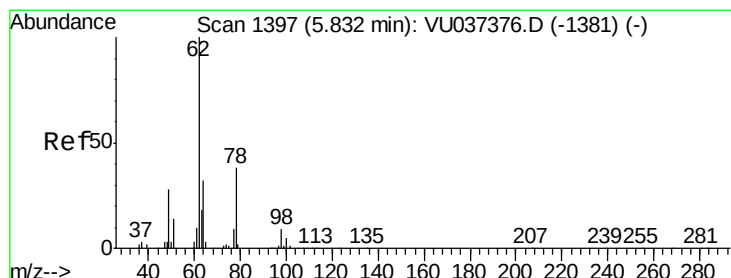
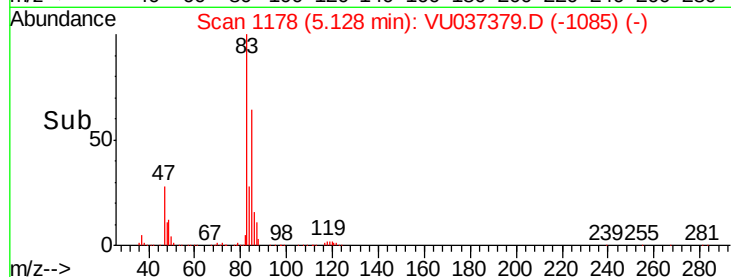
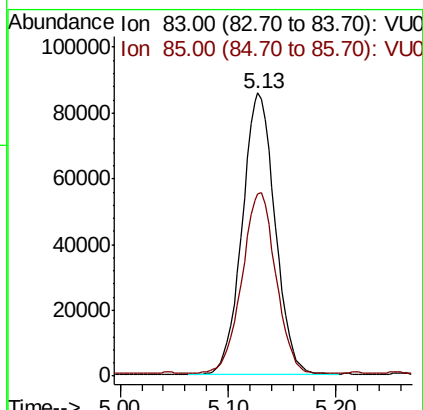
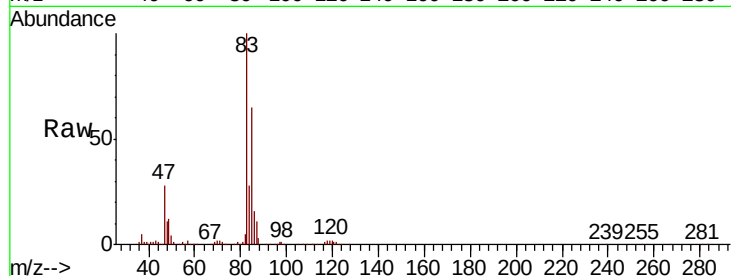




#25
Chloroform
Concen: 40.596 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

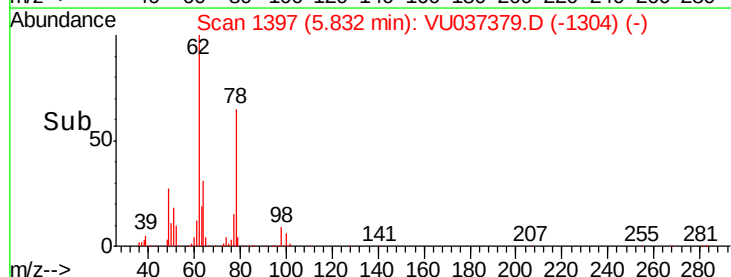
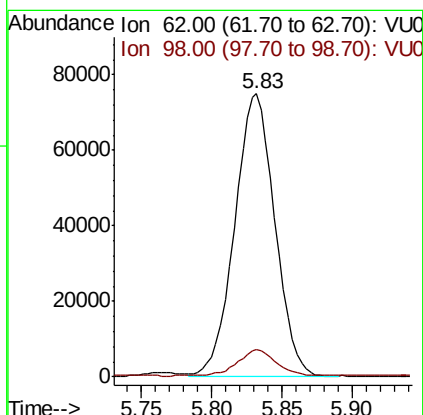
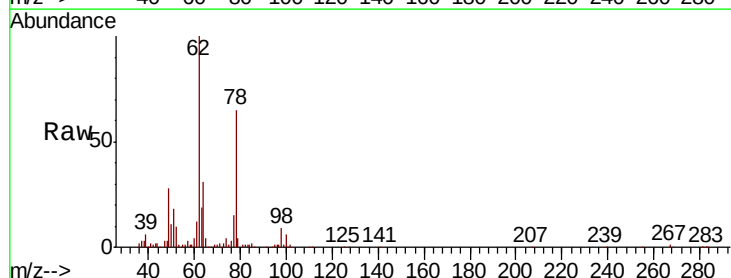
Instrument :
MSVOA_U
ClientSampleId :

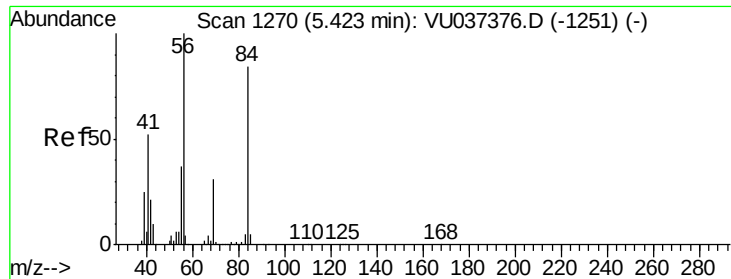
Tot Ion: 83 Resp: 179907
Ion Ratio Lower Upper
83 100
85 64.6 45.1 83.7



#27
1,2-Dichloroethane
Concen: 42.279 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Tgt Ion: 62 Resp: 149120
Ion Ratio Lower Upper
62 100
98 9.5 7.7 11.5

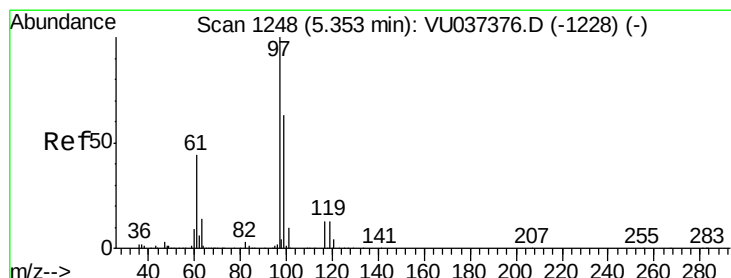
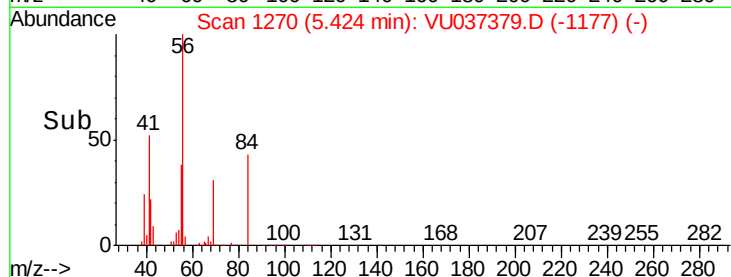
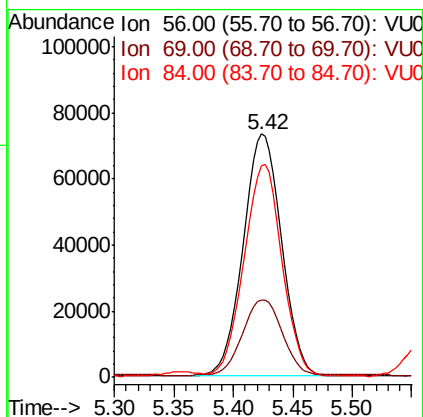
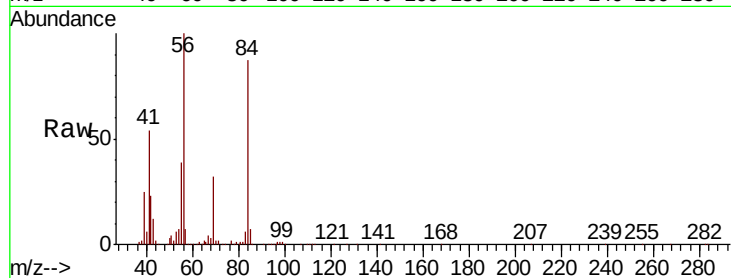




#29
Cyclohexane
Concen: 41.720 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

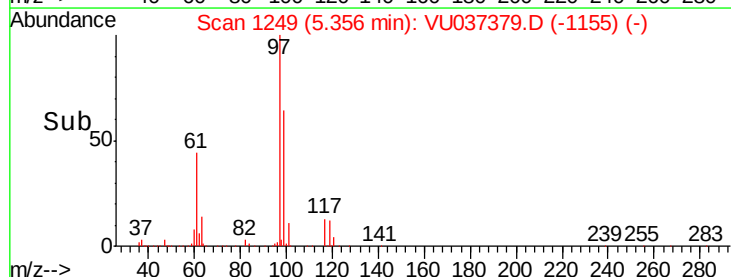
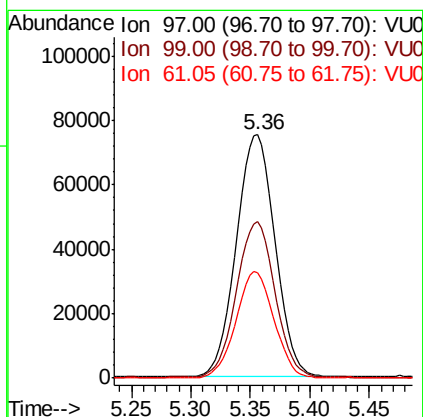
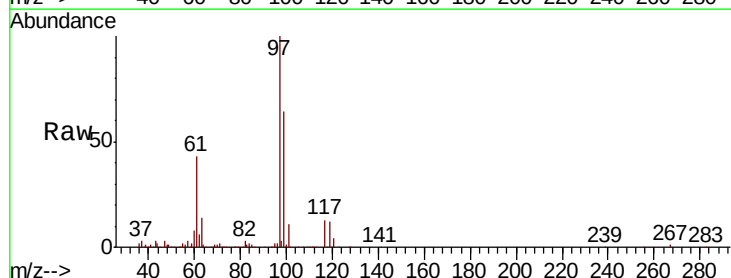
Instrument :
MSVOA_U
ClientSampleId :

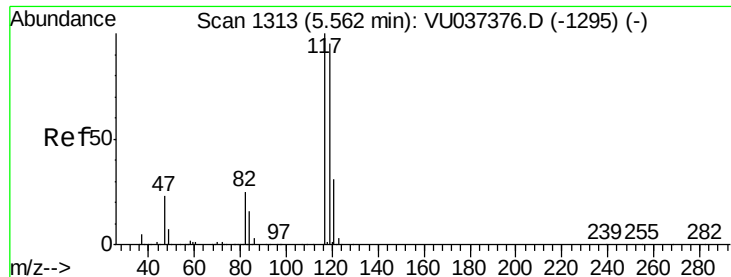
Tot Ion: 56 Resp: 163920
Ion Ratio Lower Upper
56 100
69 32.1 25.8 38.6
84 86.7 70.1 105.1



#30
1,1,1-Trichloroethane
Concen: 41.751 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Tgt Ion: 97 Resp: 169596
Ion Ratio Lower Upper
97 100
99 63.7 51.4 77.0
61 43.4 35.1 52.7





#31

Carbon tetrachloride

Concen: 41.597 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

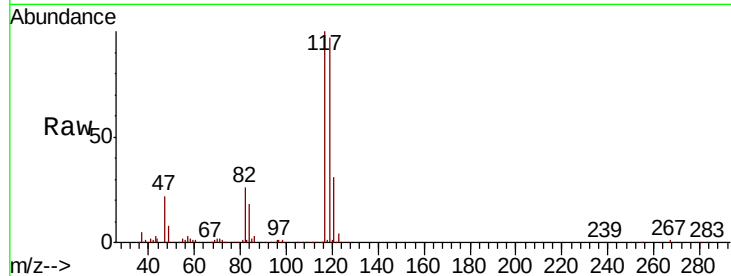
ClientSampleId :

Tot Ion:117 Resp: 145952

Ion Ratio Lower Upper

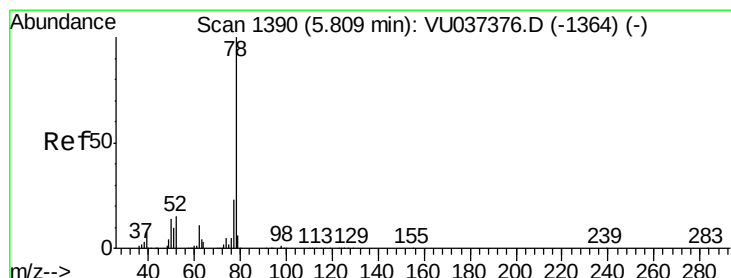
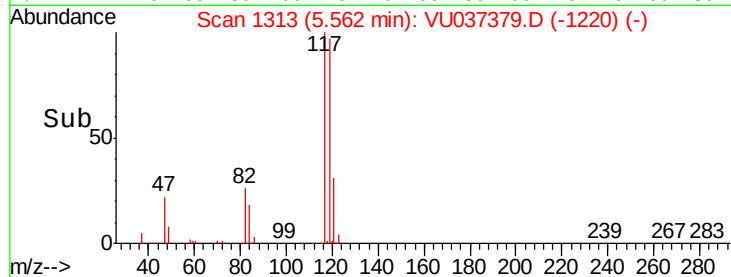
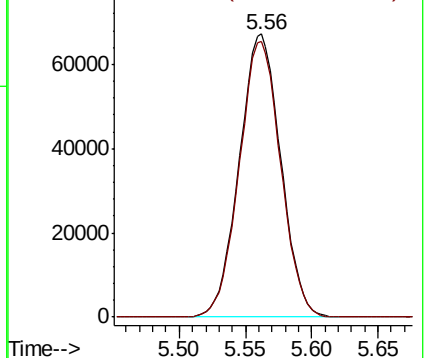
117 100

119 97.0 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 41.496 ug/L

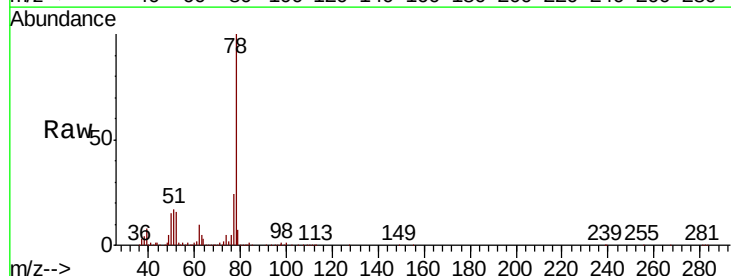
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

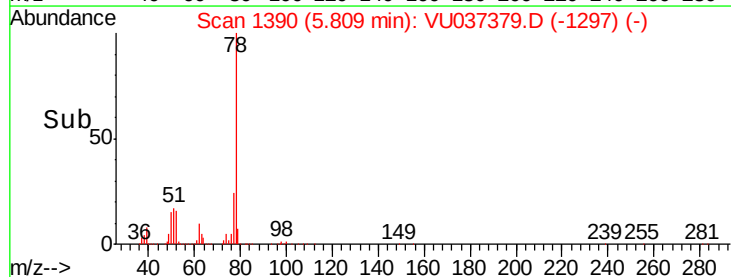
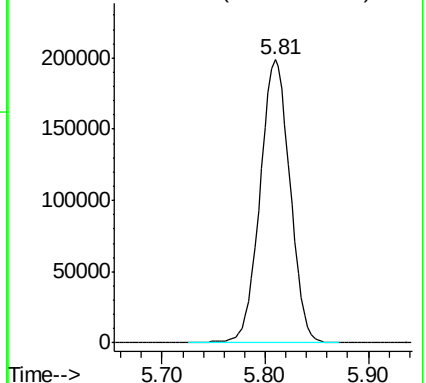
Lab File: VU037379.D

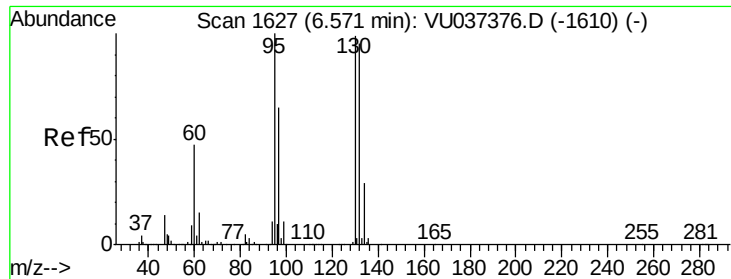
Acq: 27 Mar 2020 18:43

Tgt Ion: 78 Resp: 399577



Abundance Ion 78.00 (77.70 to 78.70): VU0

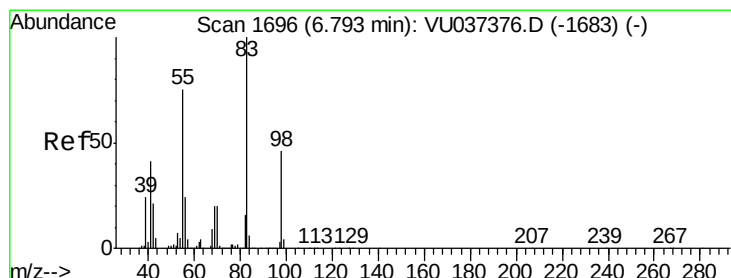
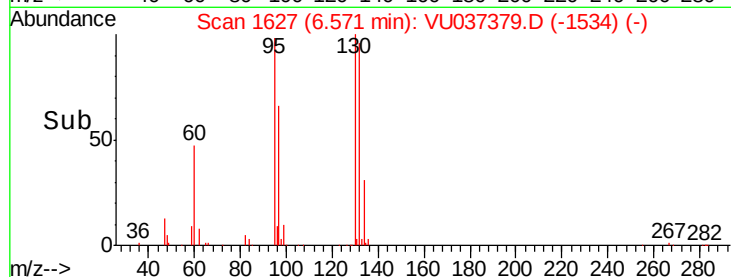
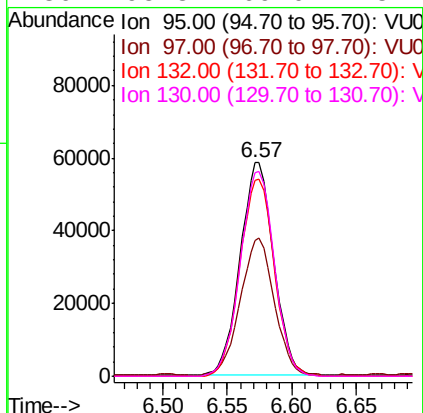
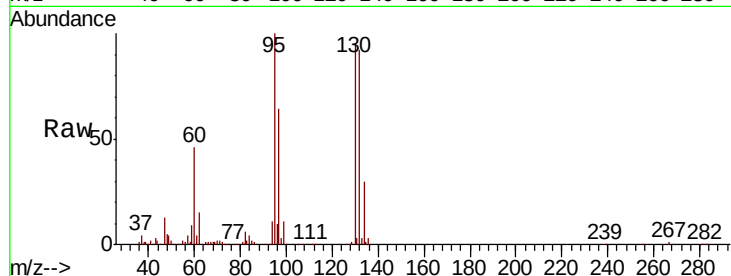




#34
 Trichloroethene
 Concen: 41.337 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

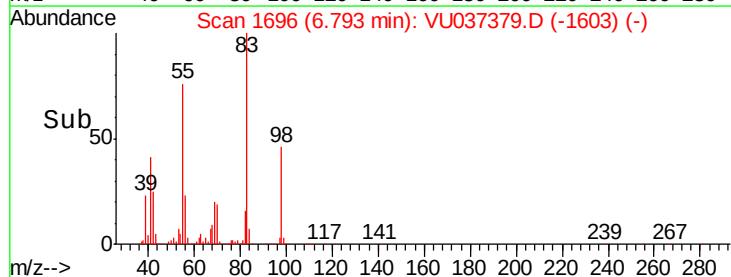
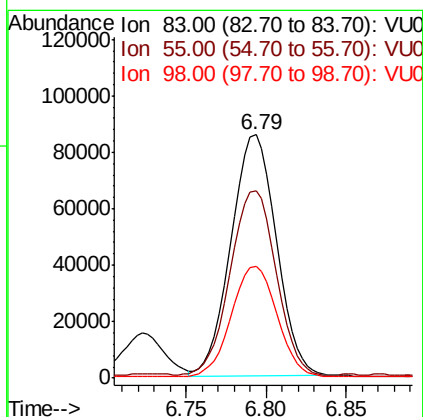
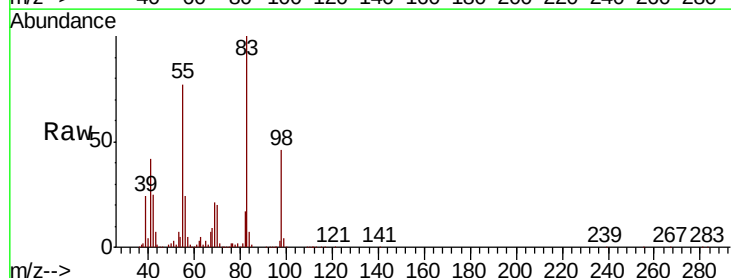
Instrument :
 MSVOA_U
 ClientSampleId :

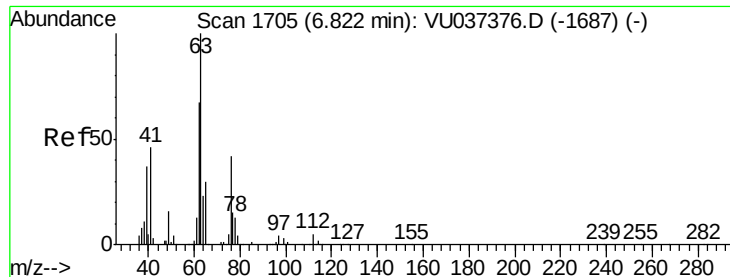
Tot Ion: 95 Resp: 106368
 Ion Ratio Lower Upper
 95 100
 97 63.8 46.1 85.5
 132 91.5 66.3 123.1
 130 95.3 69.0 128.1



#35
 Methylcyclohexane
 Concen: 40.808 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion: 83 Resp: 165398
 Ion Ratio Lower Upper
 83 100
 55 76.9 60.1 90.1
 98 46.3 36.9 55.3

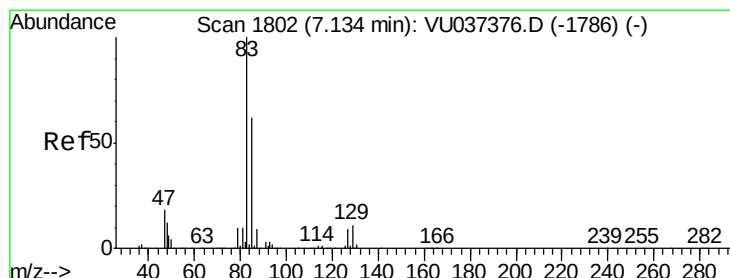
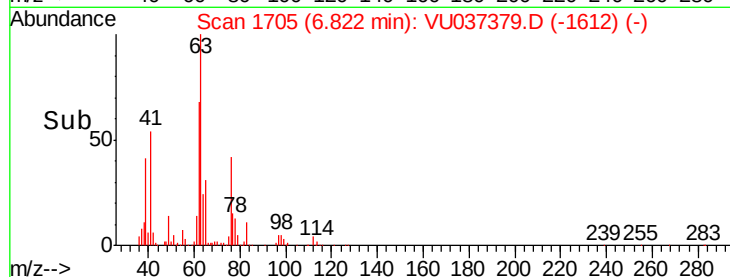
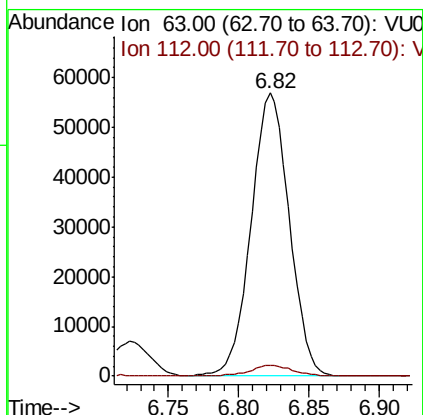
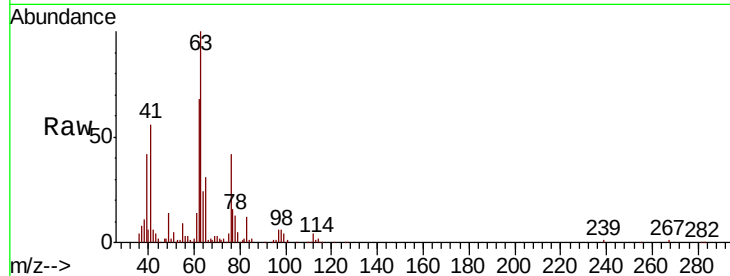




#37
 1,2-Dichloropropane
 Concen: 41.914 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

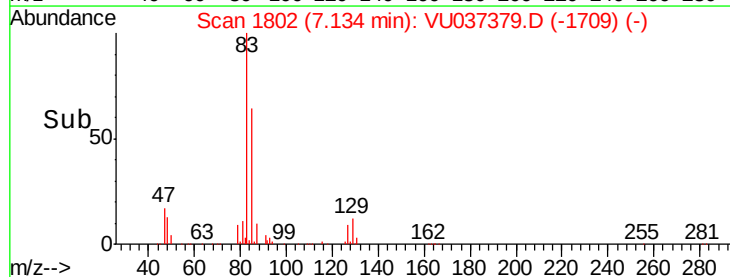
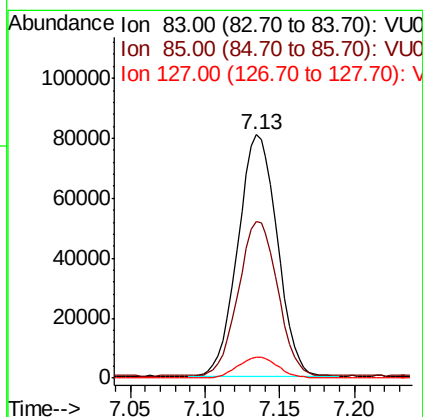
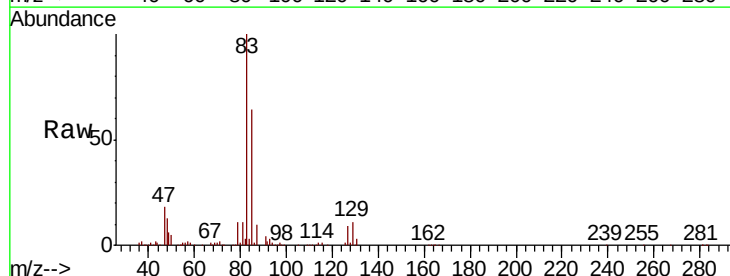
Instrument :
 MSVOA_U
 ClientSampled :

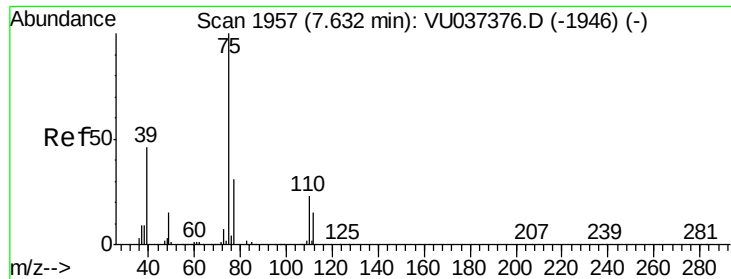
Tot Ion: 63 Resp: 107161
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.4 5.0



#38
 Bromodichloromethane
 Concen: 41.200 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion: 83 Resp: 147604
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.2 82.2
 127 8.6 7.8 11.6

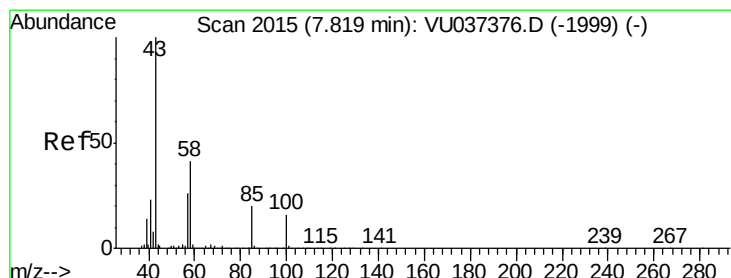
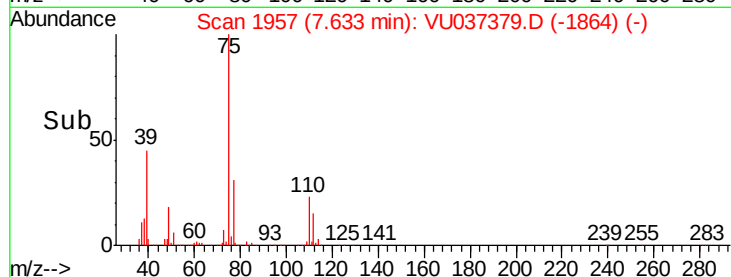
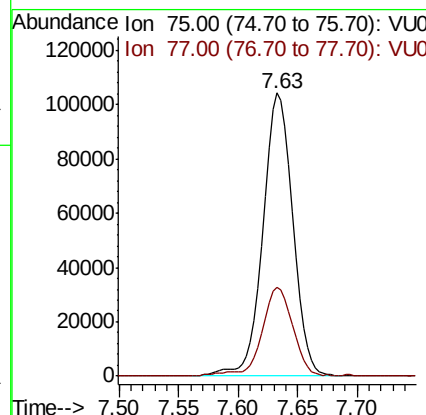
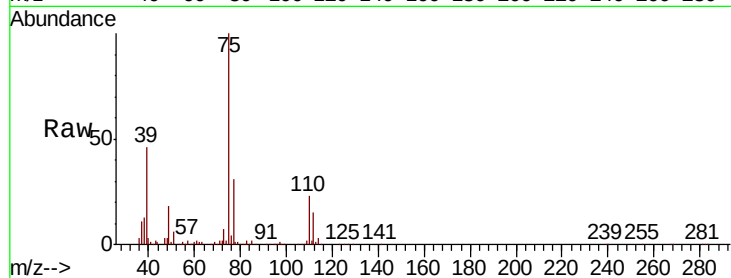




#39
 cis-1,3-Dichloropropene
 Concen: 42.214 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

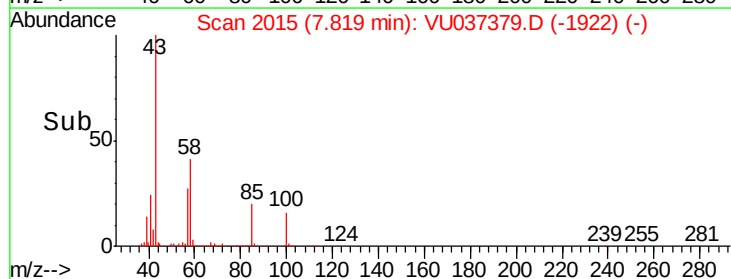
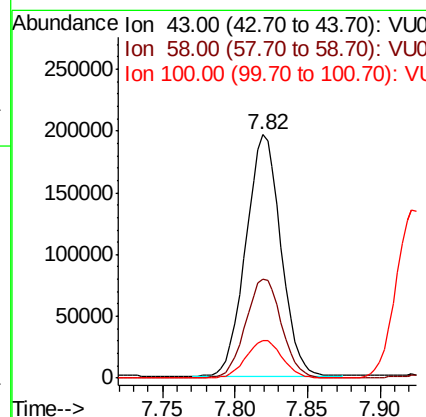
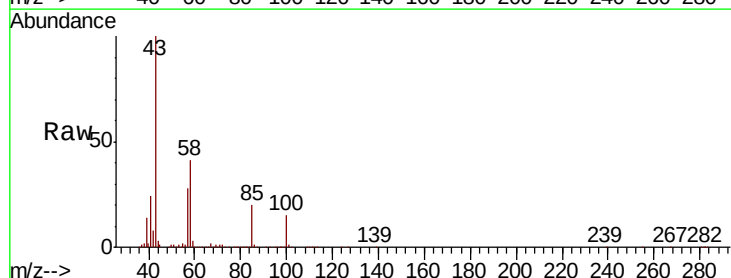
Instrument :
 MSVOA_U
 ClientSampled :

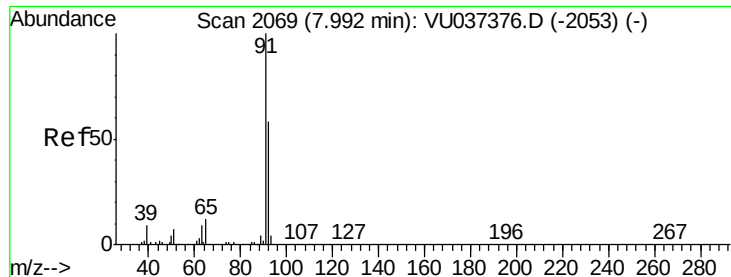
Tot Ion: 75 Resp: 181705
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 81.216 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion: 43 Resp: 328179
 Ion Ratio Lower Upper
 43 100
 58 41.8 0.0 0.0#
 100 16.1 0.0 0.0#





#42

Toluene

Concen: 41.706 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

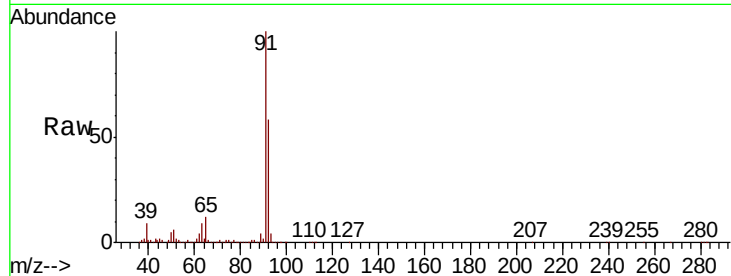
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 434827

Ion Ratio Lower Upper

91 100

92 58.3 40.9 75.9



Abundance Ion 91.00 (90.70 to 91.70): VU037376.D (-2053) (-)

Ion 92.00 (91.70 to 92.70): VU037379.D (-1976) (-)

7.99

250000

200000

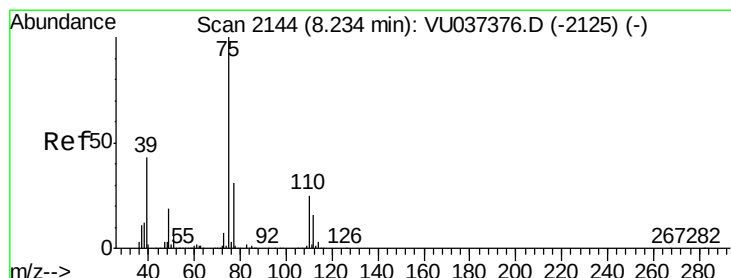
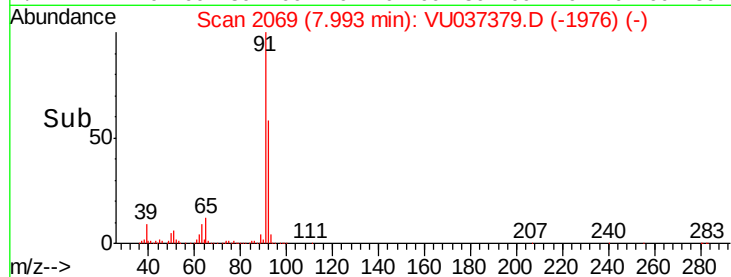
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05



#44

trans-1,3-Dichloropropene

Concen: 40.927 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037379.D

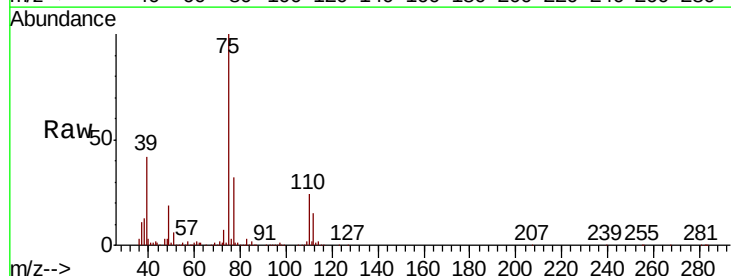
Acq: 27 Mar 2020 18:43

Tgt Ion: 75 Resp: 175650

Ion Ratio Lower Upper

75 100

77 32.3 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VU037376.D (-2125) (-)

Ion 77.00 (76.70 to 77.70): VU037379.D (-2051) (-)

8.23

120000

100000

80000

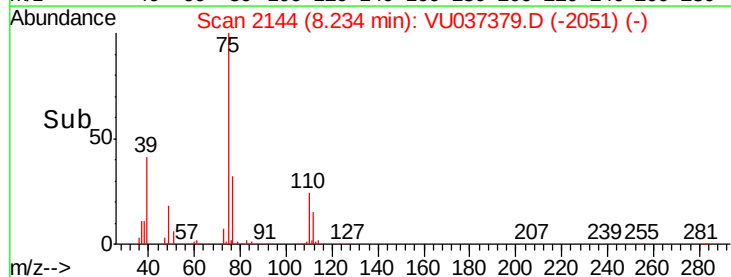
60000

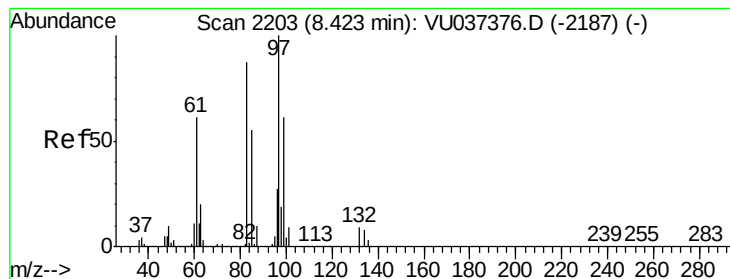
40000

20000

0

Time--> 8.15 8.20 8.25 8.30





#45

1,1,2-Trichloroethane

Concen: 40.999 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 101554

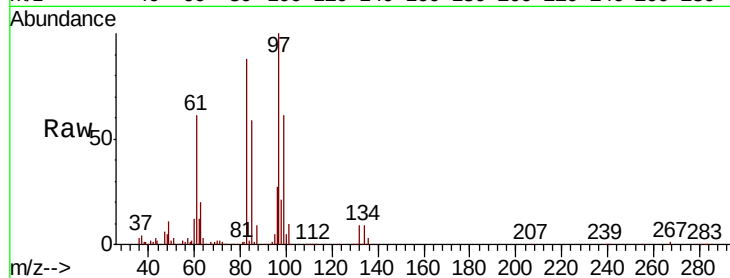
Ion Ratio Lower Upper

97 100

99 60.6 42.4 78.6

83 88.0 61.3 113.9

85 58.9 39.3 73.1

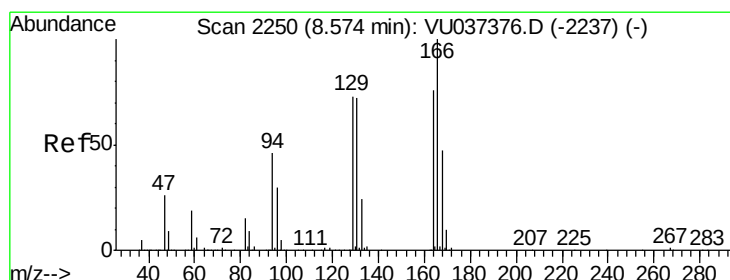
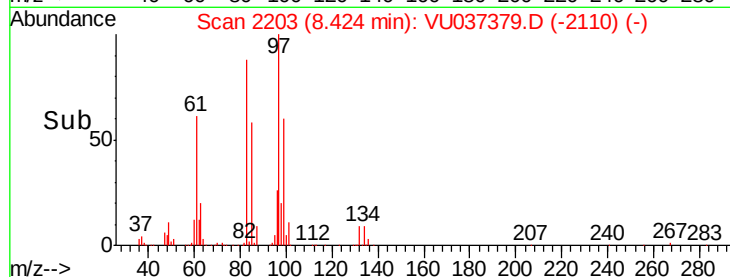
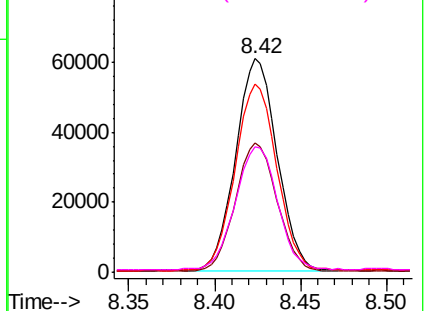


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 41.221 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Tgt Ion: 164 Resp: 81441

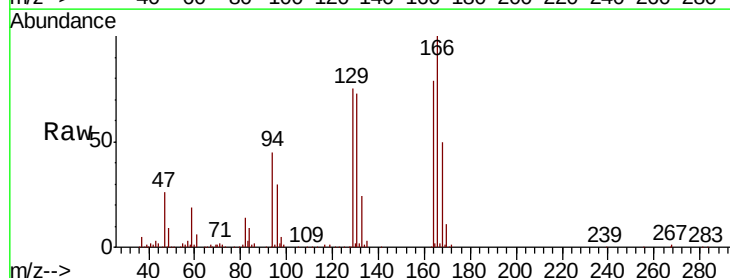
Ion Ratio Lower Upper

164 100

129 94.4 67.8 126.0

131 92.1 66.1 122.8

166 126.6 92.1 171.1

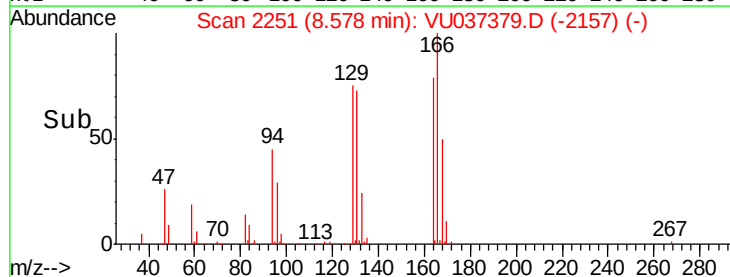
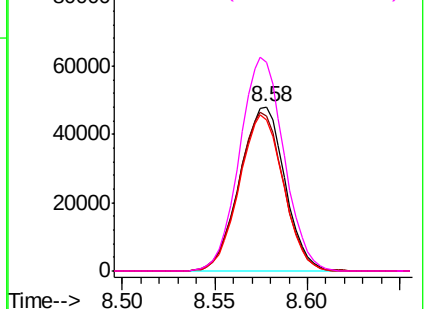


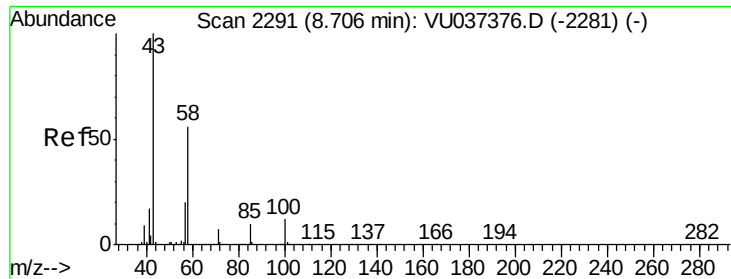
Abundance Ion 164.00 (163.70 to 164.70): V

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

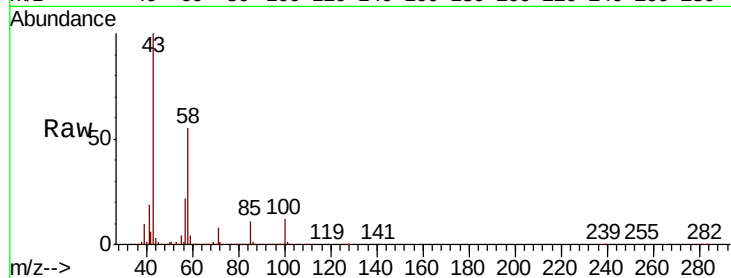




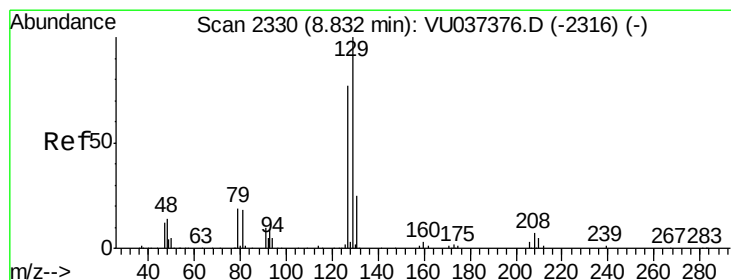
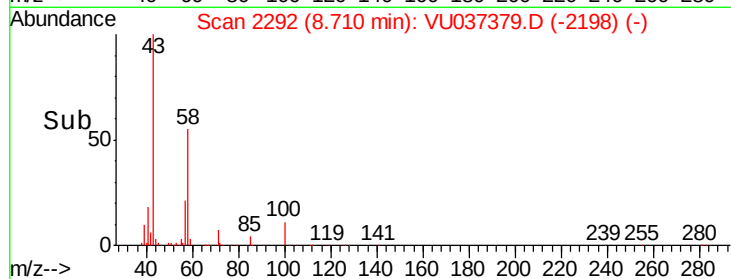
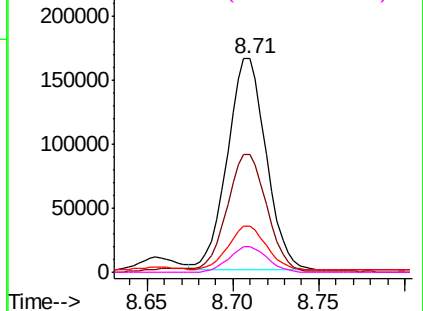
#48
2-Hexanone
Concen: 81.732 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	43	Resp:	260098
Ion	Ratio	Lower	Upper
43	100		
58	56.5	45.3	67.9
57	20.7	16.2	24.2
100	12.2	9.7	14.5

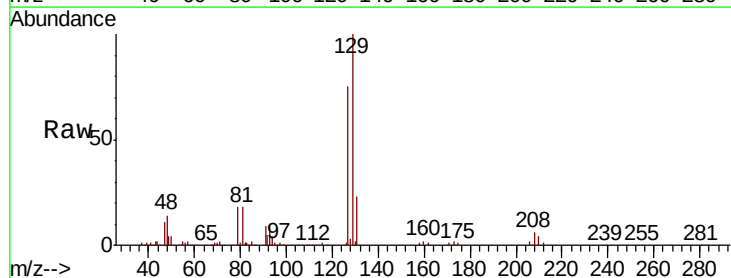


Abundance Ion 43.00 (42.70 to 43.70): VU037379.D (-2198) (-)
Ion 58.00 (57.70 to 58.70): VU037379.D (-2198) (-)
Ion 57.00 (56.70 to 57.70): VU037379.D (-2198) (-)
Ion 100.00 (99.70 to 100.70): VU037379.D (-2198) (-)

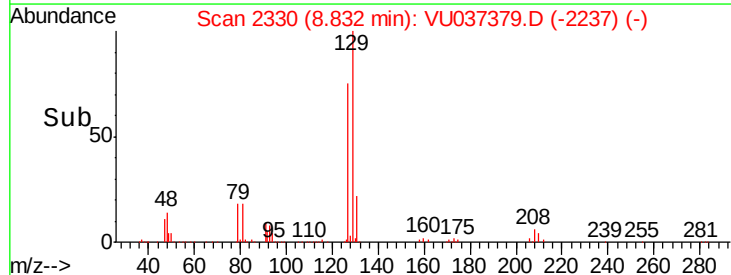
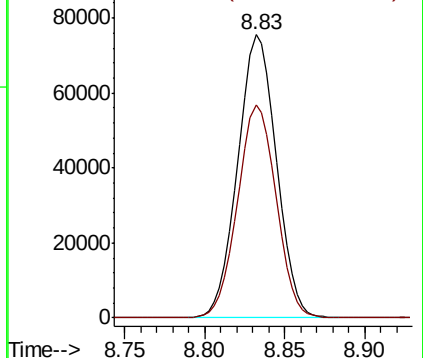


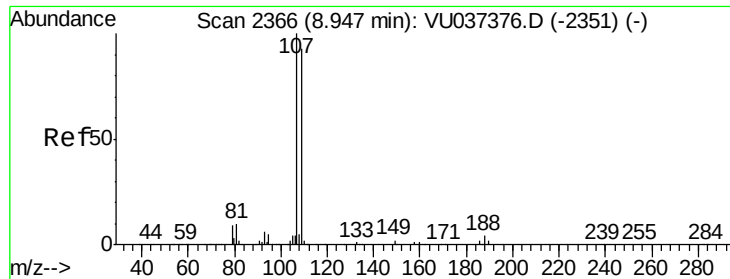
#49
Dibromochloromethane
Concen: 41.677 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037379.D
Acq: 27 Mar 2020 18:43

Tgt Ion:	129	Resp:	124531
Ion	Ratio	Lower	Upper
129	100		
127	75.2	53.9	100.1



Abundance Ion 129.00 (128.70 to 129.70): VU037379.D (-2237) (-)
Ion 127.00 (126.70 to 127.70): VU037379.D (-2237) (-)

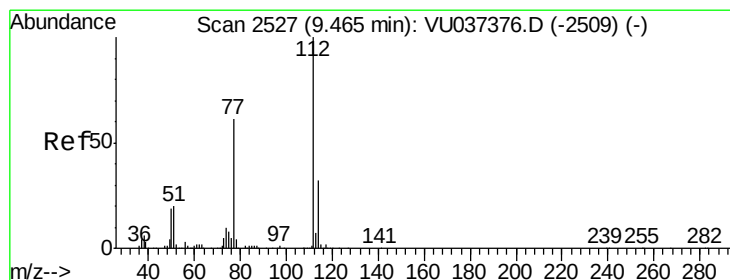
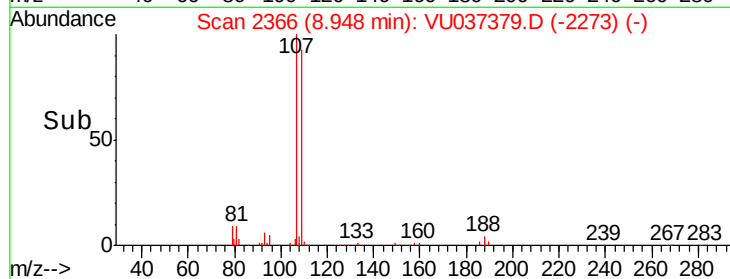
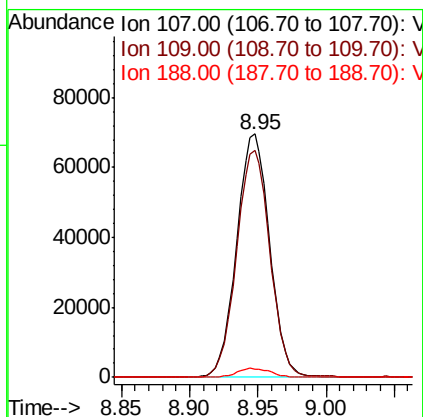
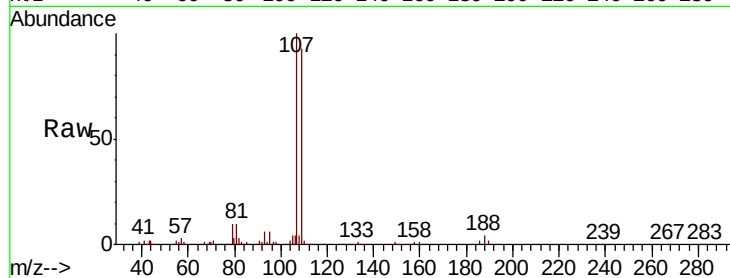




#50
 1,2-Dibromoethane
 Concen: 41.523 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

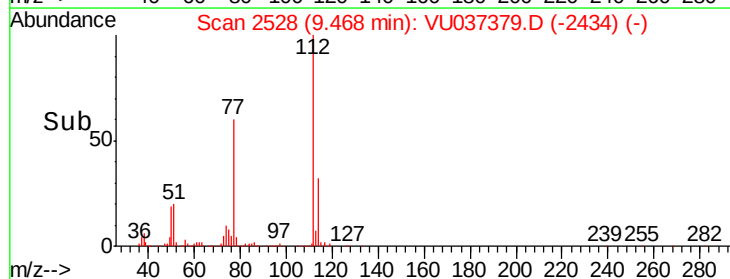
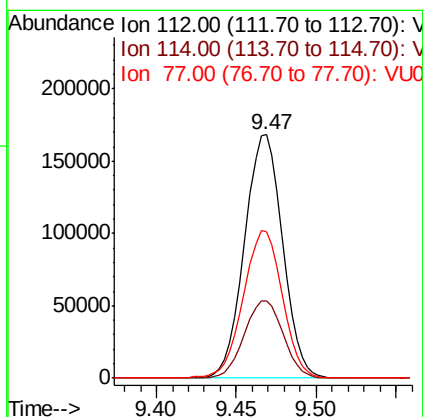
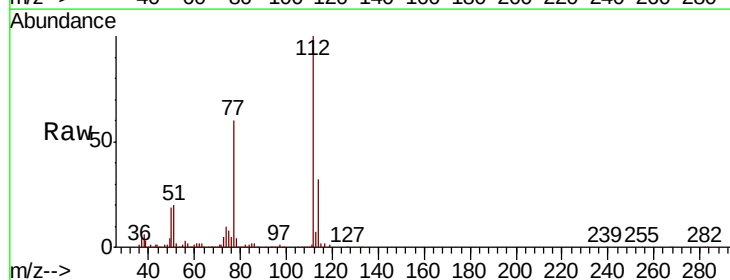
Instrument :
 MSVOA_U
 ClientSampleId :

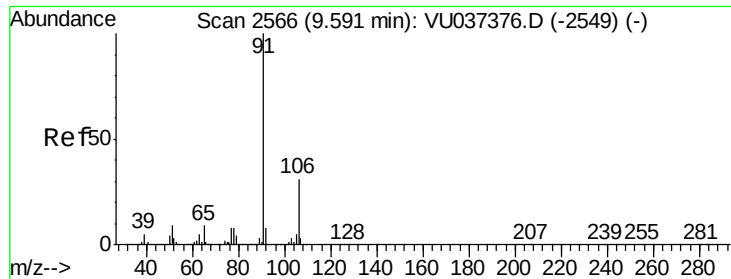
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	65.1	120.9
188	3.6	3.0	4.4



#51
 Chlorobenzene
 Concen: 41.140 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.3	41.5
77	60.3	48.6	72.8





#52

Ethylbenzene

Concen: 41.685 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

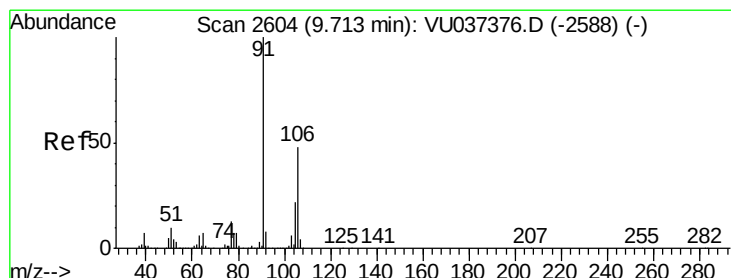
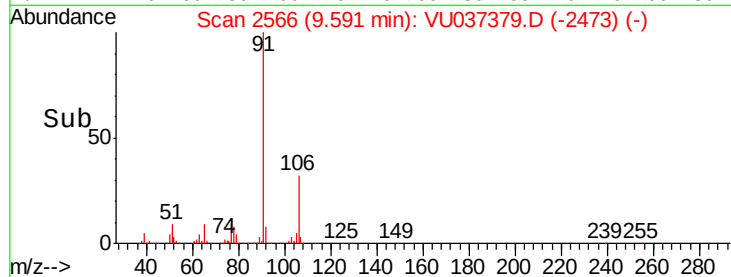
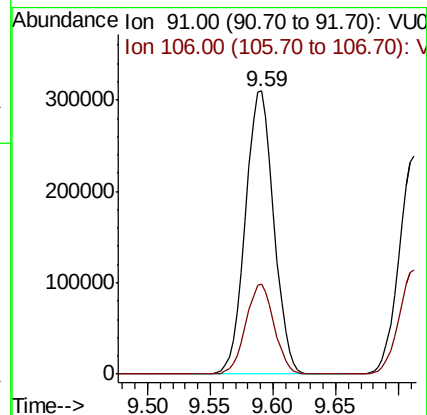
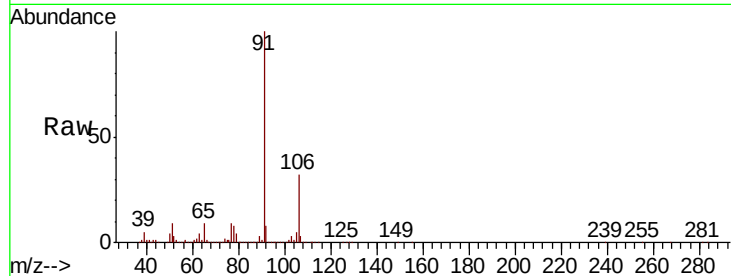
ClientSampleId :

Tot Ion: 91 Resp: 488281

Ion Ratio Lower Upper

91 100

106 31.7 21.5 39.9



#53

m,p-Xylene

Concen: 41.234 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037379.D

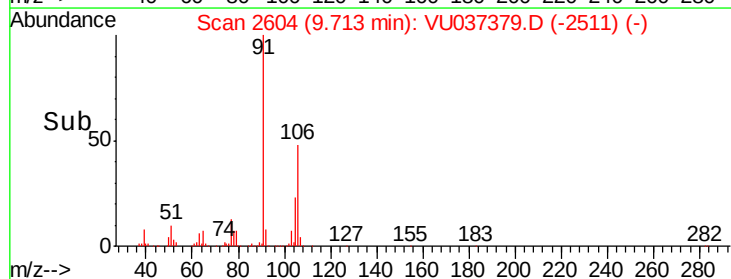
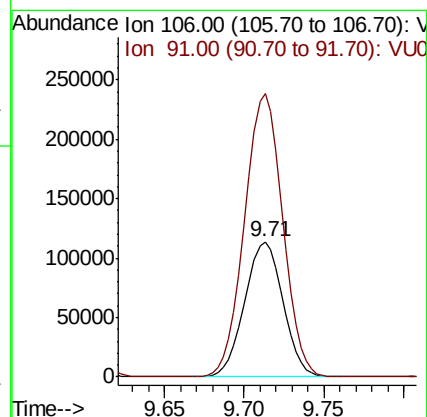
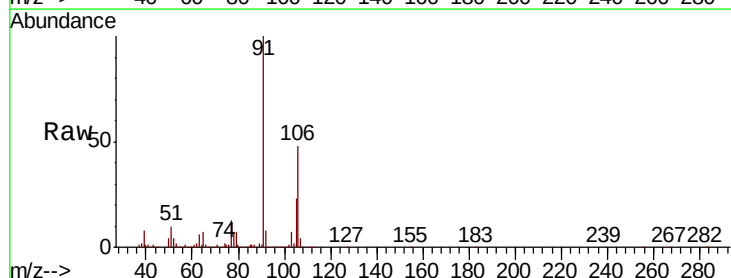
Acq: 27 Mar 2020 18:43

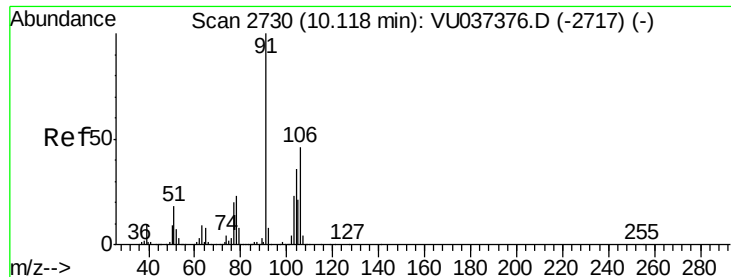
Tgt Ion: 106 Resp: 184829

Ion Ratio Lower Upper

106 100

91 209.1 146.5 272.1





#54

o-xylene

Concen: 41.413 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

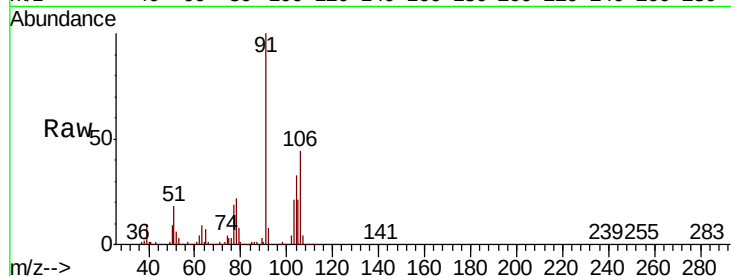
ClientSampled :

Tot Ion:106 Resp: 180914

Ion Ratio Lower Upper

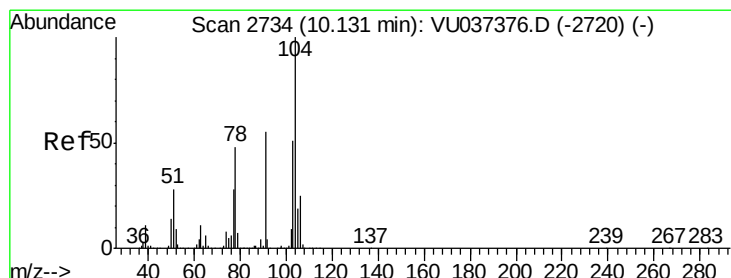
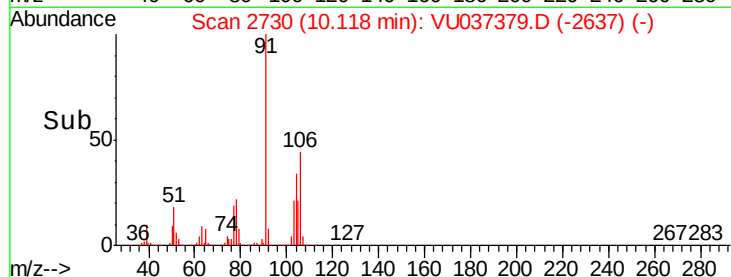
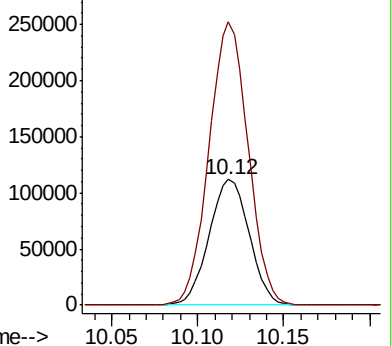
106 100

91 225.1 153.6 285.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 41.135 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037379.D

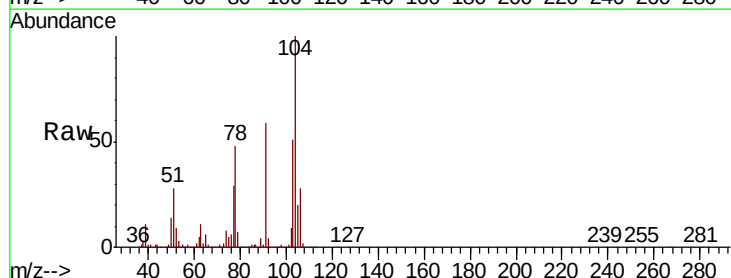
Acq: 27 Mar 2020 18:43

Tgt Ion:104 Resp: 315544

Ion Ratio Lower Upper

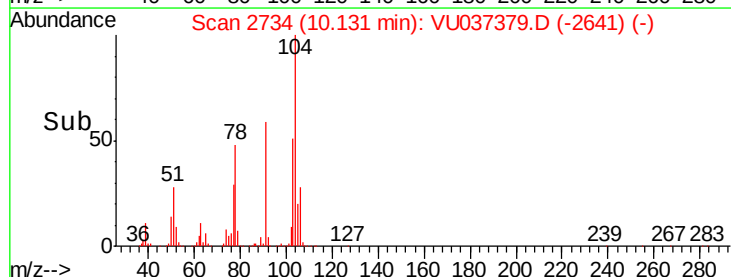
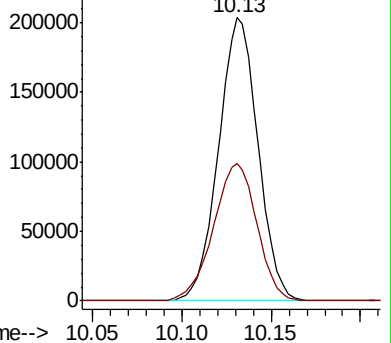
104 100

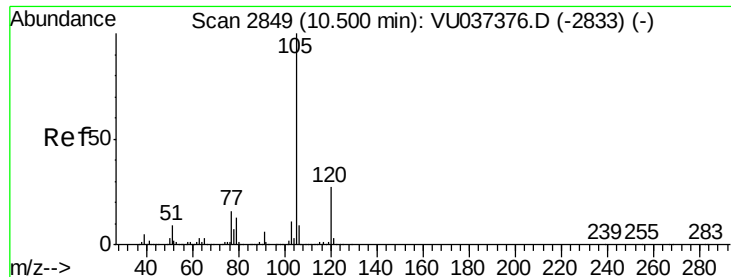
78 48.5 34.0 63.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 41.536 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

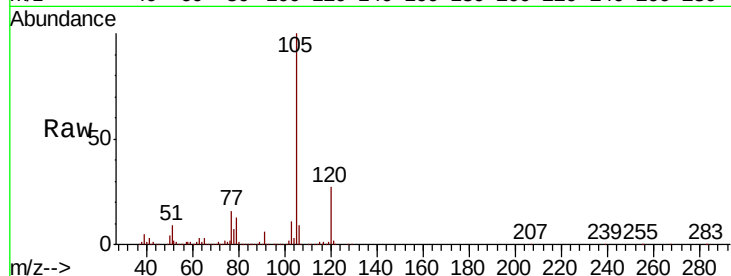
Tot Ion:105 Resp: 480294

Ion Ratio Lower Upper

105 100

120 26.6 21.5 32.3

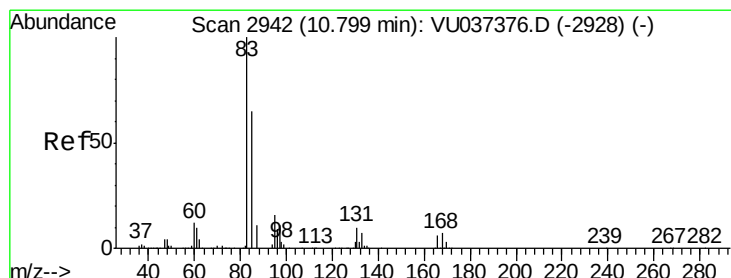
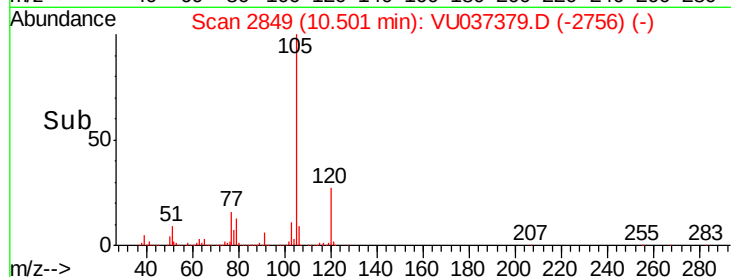
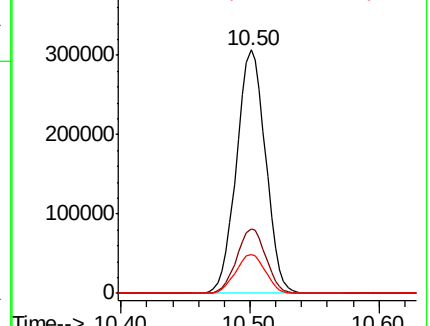
77 16.2 12.6 19.0



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: 40.174 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

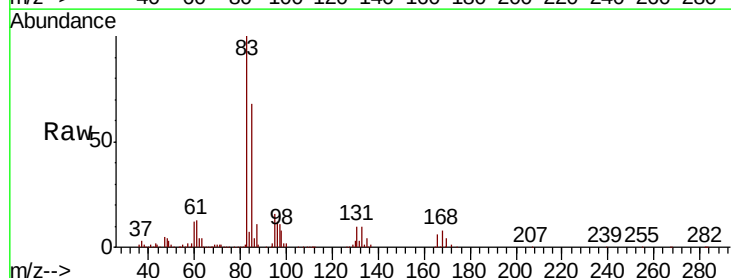
Tgt Ion: 83 Resp: 174707

Ion Ratio Lower Upper

83 100

85 67.6 46.1 85.5

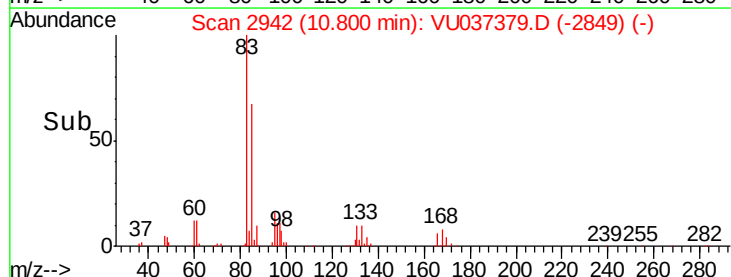
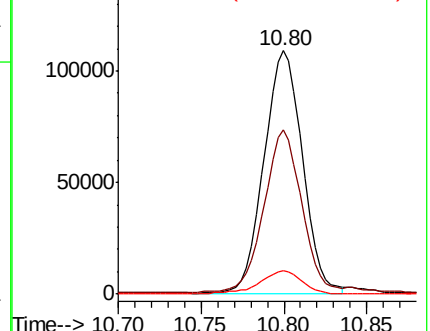
131 9.8 8.0 12.0

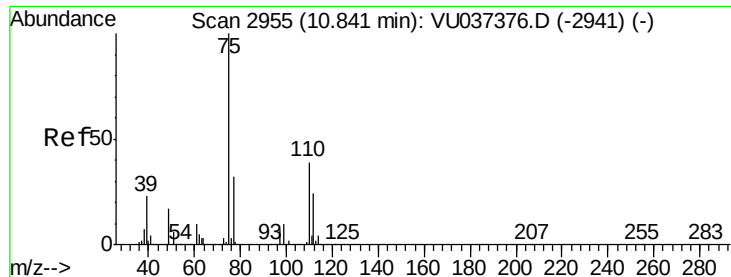


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 40.632 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

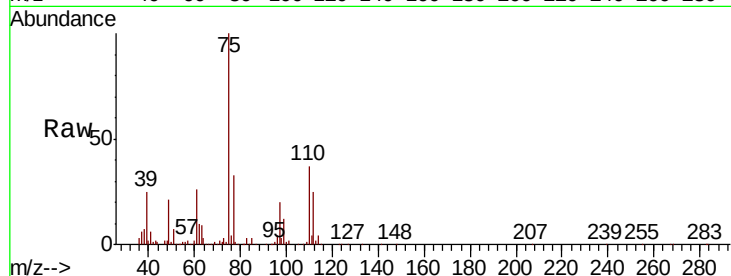
ClientSampled :

Tot Ion: 75 Resp: 142882

Ion Ratio Lower Upper

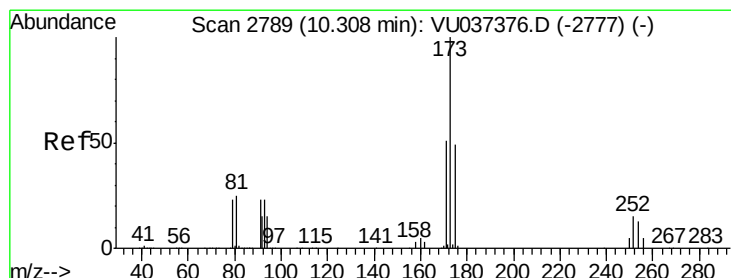
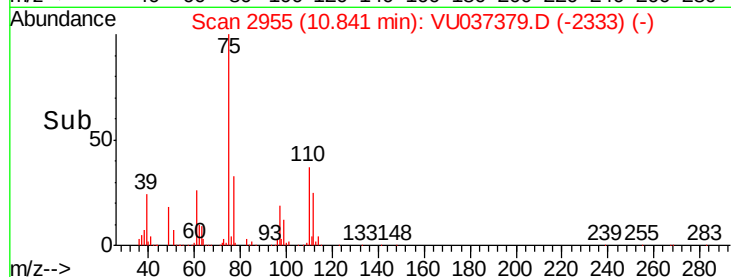
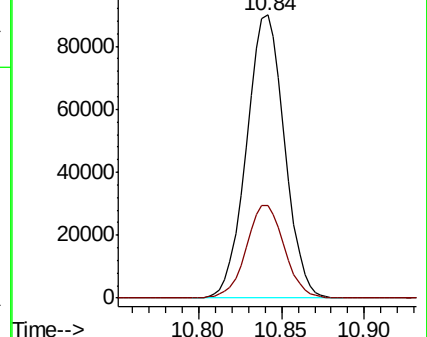
75 100

77 32.5 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU037376.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU037376.D (-2941) (-)



#61

Bromoform

Concen: 40.080 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

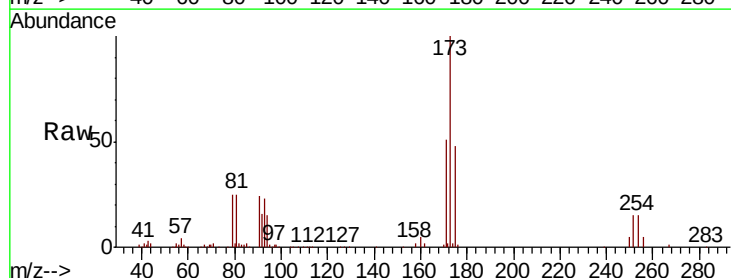
Tgt Ion: 173 Resp: 100322

Ion Ratio Lower Upper

173 100

175 49.1 39.0 58.4

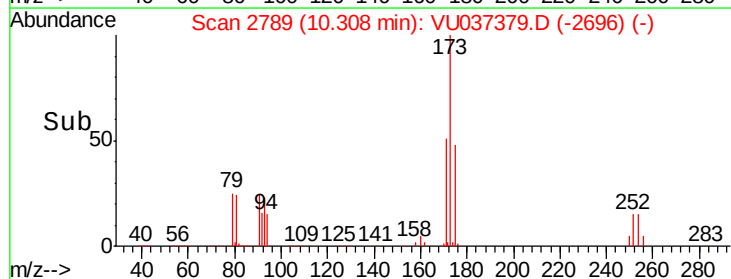
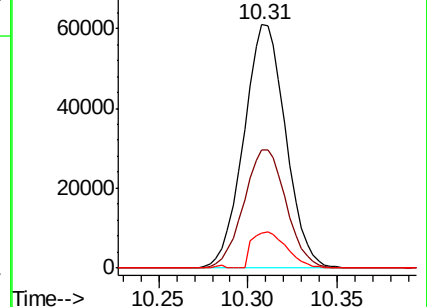
254 12.4 9.8 14.8

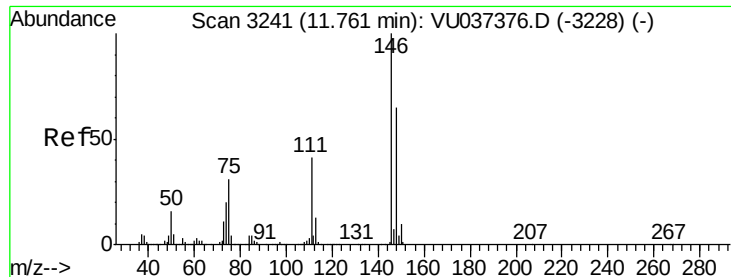


Abundance Ion 173.00 (172.70 to 173.70): VU037376.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU037376.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU037376.D (-2777) (-)





#62

1,3-Dichlorobenzene

Concen: 39.377 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

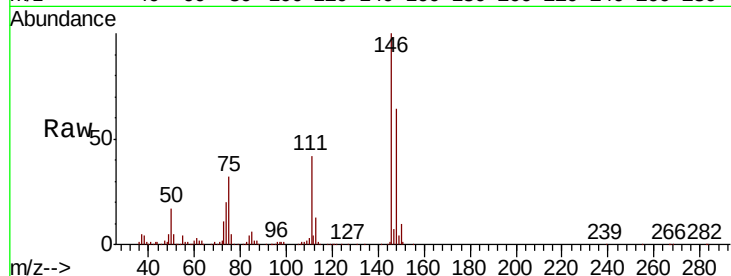
Tot Ion:146 Resp: 219617

Ion Ratio Lower Upper

146 100

111 41.6 29.1 54.1

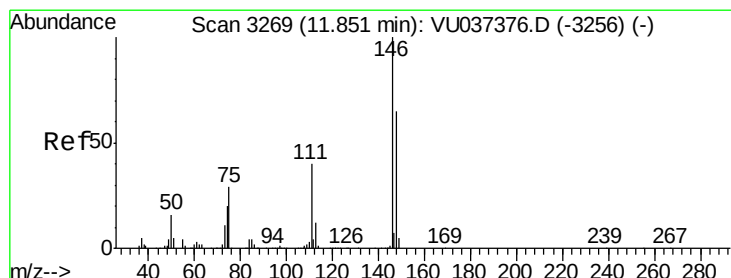
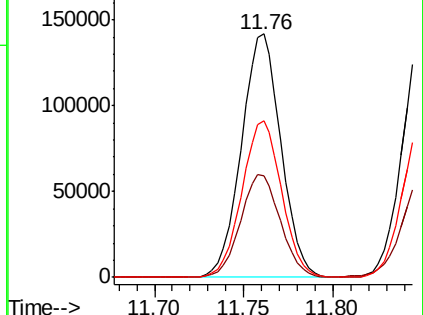
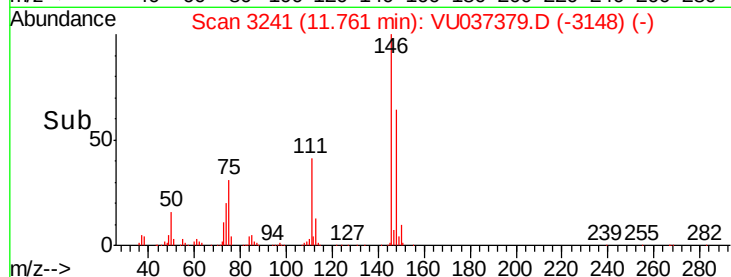
148 64.3 45.2 84.0



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: 40.593 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

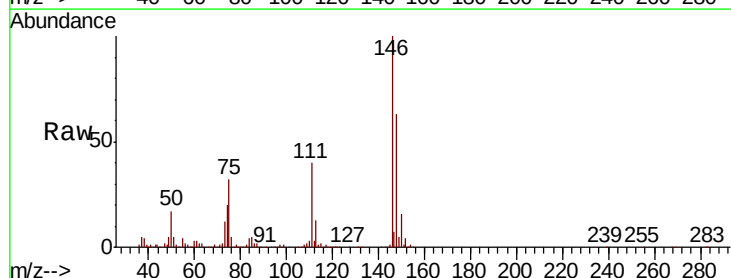
Tgt Ion:146 Resp: 225885

Ion Ratio Lower Upper

146 100

111 40.1 28.4 52.8

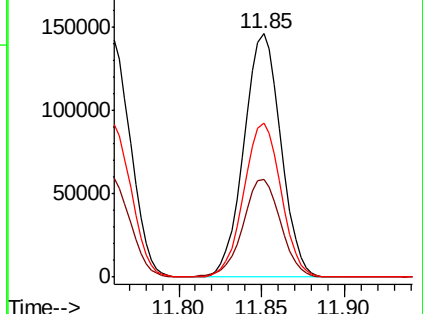
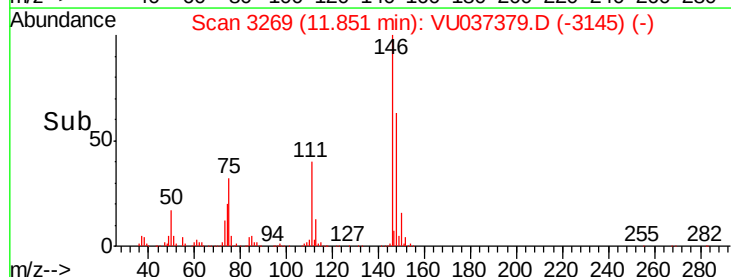
148 63.2 45.6 84.8

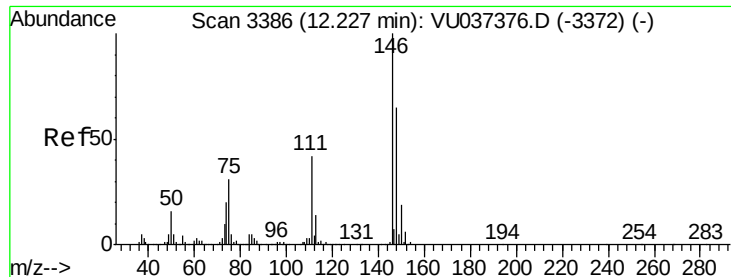


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

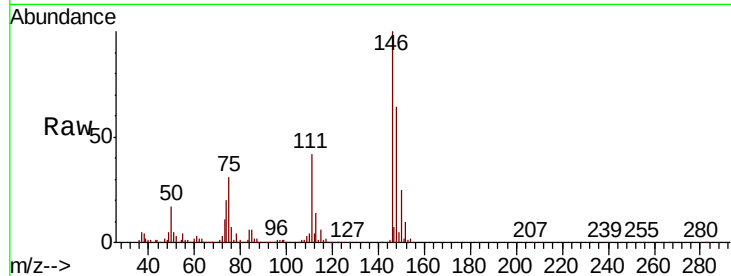




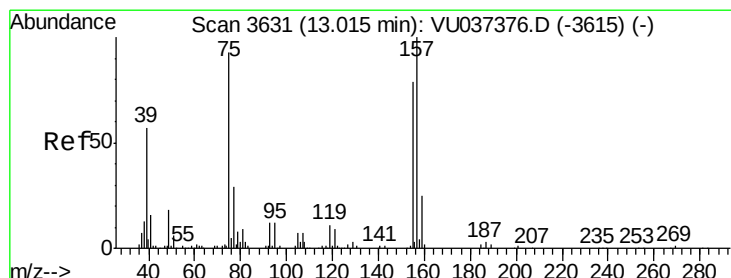
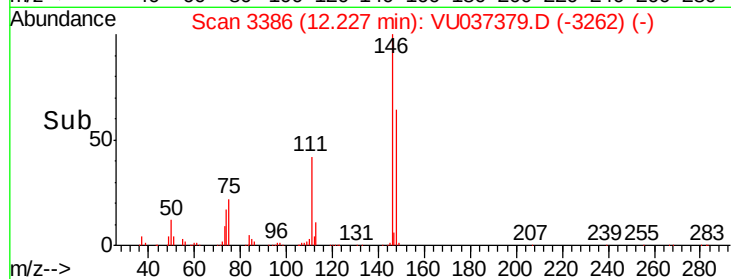
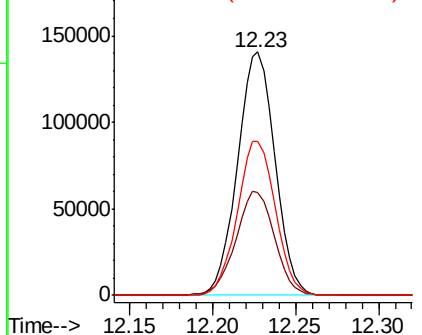
#65
 1,2-Dichlorobenzene
 Concen: 40.186 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	33.6	50.4
148	63.5	51.9	77.9

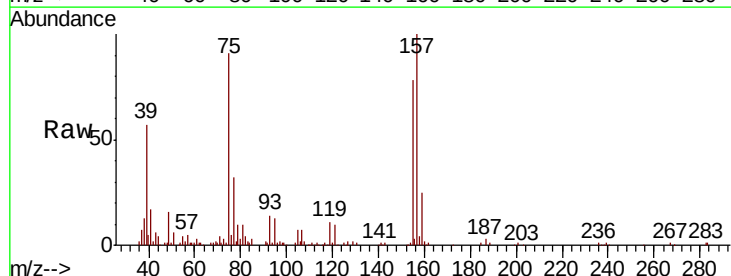


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

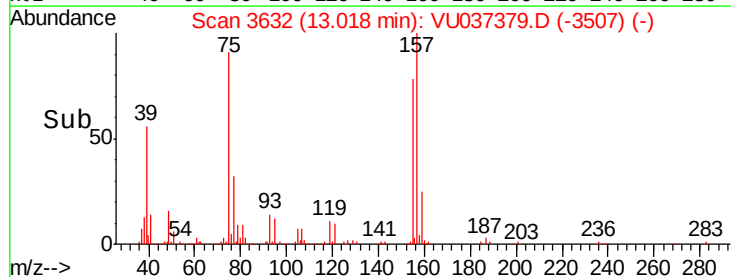
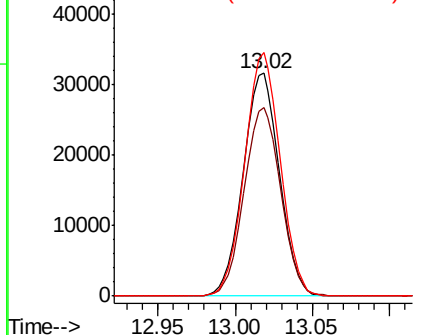


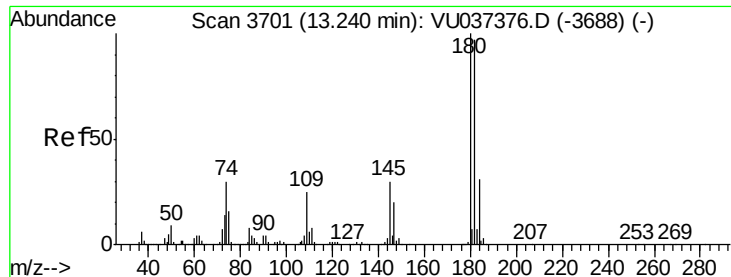
#66
 1,2-Dibromo-3-chloropropane
 Concen: 39.958 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.9	68.5	102.7
157	109.3	86.5	129.7



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

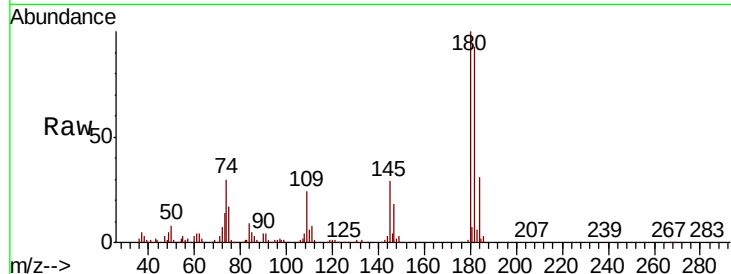




#67
 1,3,5-Trichlorobenzene
 Concen: 40.160 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	180	Resp	173876
Ion Ratio	100	Lower	Upper
180	100		
182	95.1	77.3	115.9
184	31.4	24.6	37.0
145	29.6	23.6	35.4



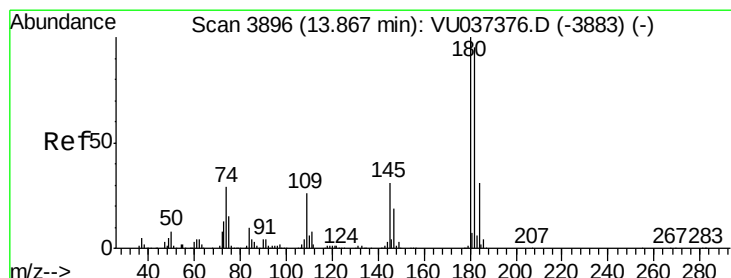
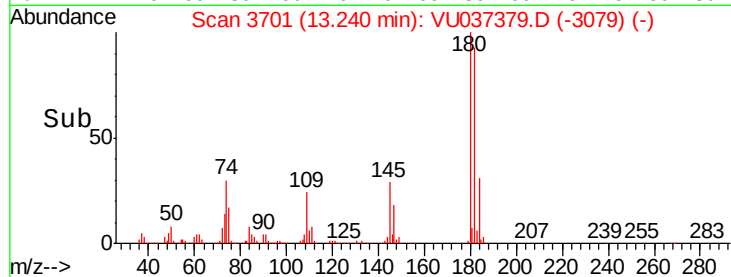
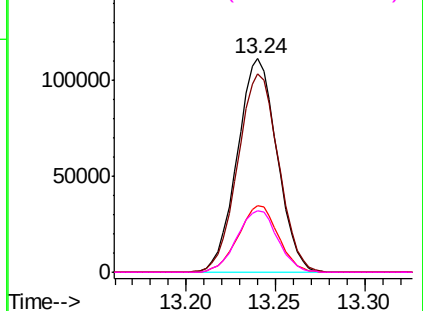
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

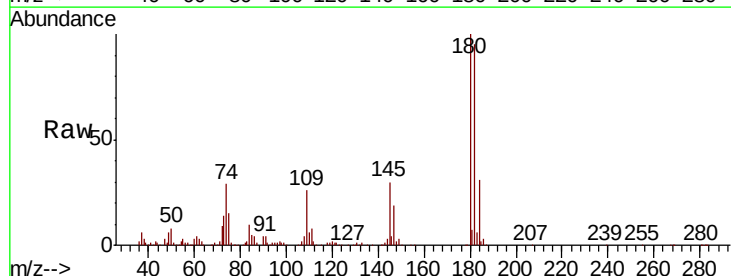
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 40.248 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037379.D
 Acq: 27 Mar 2020 18:43

Tgt Ion	180	Resp	171317
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
180	100		
182	95.5	76.4	114.6
145	30.6	24.6	36.8

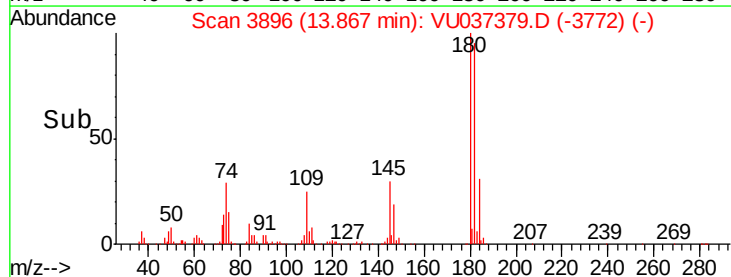
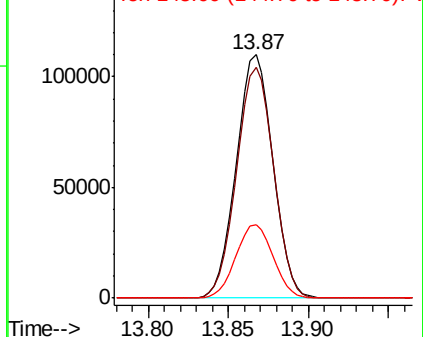


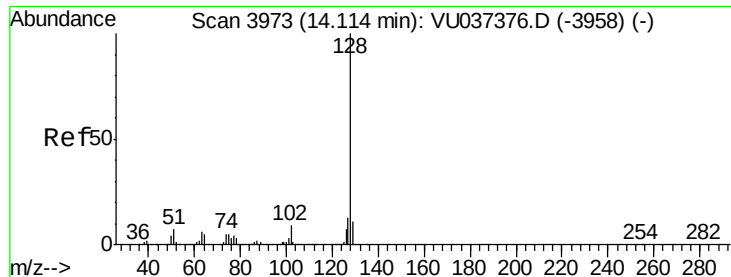
Abundance

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: 40.826 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

Instrument :

MSVOA_U

ClientSampleId :

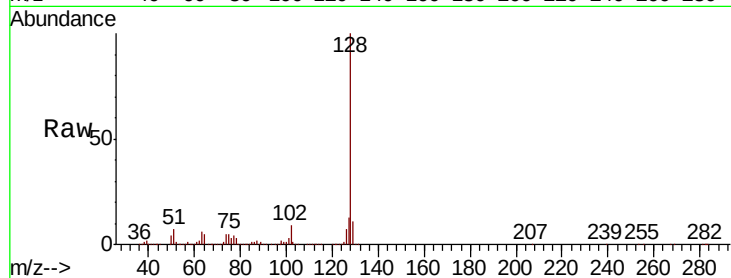
Tot Ion:128 Resp: 585572

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

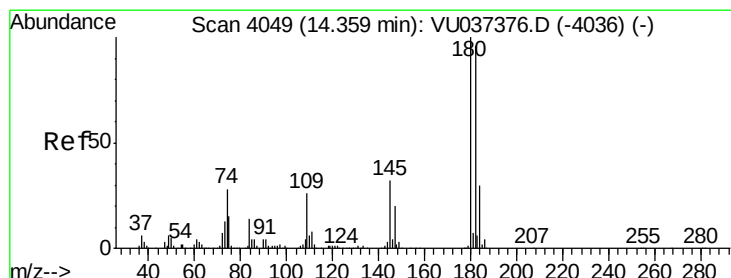
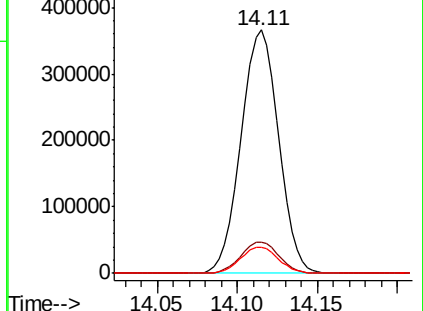
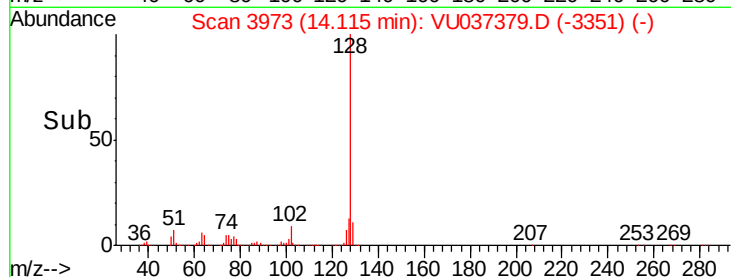
129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 40.830 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU037379.D

Acq: 27 Mar 2020 18:43

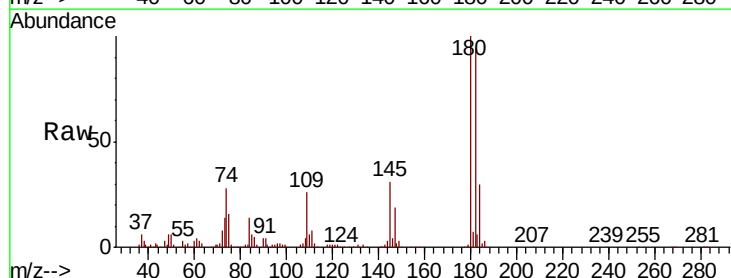
Tgt Ion:180 Resp: 174188

Ion Ratio Lower Upper

180 100

182 95.6 77.0 115.6

145 32.1 25.6 38.4



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

