

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040620\
 Data File : VU037596.D
 Acq On : 06 Apr 2020 18:10
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Quant Time: Apr 07 00:51:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 07 00:48:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	167070	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	153541	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	72892	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	48626	35.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.68%
7) Chloroethane-d5	1.93	69	41339	37.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.84%
11) 1,1-Dichloroethene-d2	2.59	63	93052	40.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.60%
21) 2-Butanone-d5	4.66	46	100549	98.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.60%
24) Chloroform-d	5.11	84	100818	44.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	5.74	65	65237	42.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.96%
32) Benzene-d6	5.76	84	195311	43.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.80%
36) 1,2-Dichloropropane-d6	6.72	67	68404	45.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.36%
41) Toluene-d8	7.92	98	180485	43.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.06%
43) trans-1,3-Dichloropropene-	8.20	79	34818	42.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.64%
47) 2-Hexanone-d5	8.66	63	76336	96.21	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.21%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	103684	48.43	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.86%
64) 1,2-Dichlorobenzene-d4	12.20	152	66883	44.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.94%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	51260	47.459	ug/L 99
3) Chloromethane	1.54	50	52354	45.696	ug/L 97
5) Vinyl chloride	1.62	62	55488	48.773	ug/L 100
6) Bromomethane	1.87	94	29047	51.768	ug/L 97
8) Chloroethane	1.95	64	33161	49.422	ug/L 98
9) Trichlorofluoromethane	2.16	101	81198	50.306	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	47610	51.714	ug/L 99
12) 1,1-Dichloroethene	2.60	96	44393	49.674	ug/L 98
13) Acetone	2.66	43	57887	98.198	ug/L 100
14) Carbon disulfide	2.82	76	118415	45.871	ug/L 100
15) Methyl Acetate	2.98	43	71333	53.400	ug/L 97
16) Methylene chloride	3.08	84	53900	49.723	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	46538	48.359	ug/L 95
18) Methyl tert-butyl Ether	3.40	73	176345	52.276	ug/L 98
19) 1,1-Dichloroethane	3.91	63	96234	51.040	ug/L 97
20) cis-1,2-Dichloroethene	4.71	96	56775	51.231	ug/L 98
22) 2-Butanone	4.75	43	101312	105.297	ug/L 99

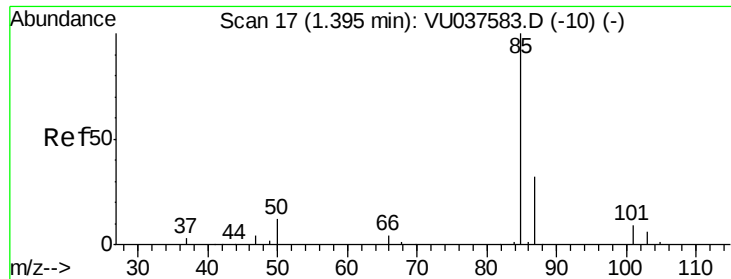
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	28001	52.642	ug/L	91
25) Chloroform	5.13	83	99796	50.766	ug/L	97
27) 1,2-Dichloroethane	5.83	62	76231	50.246	ug/L	98
29) Cyclohexane	5.43	56	80733	50.172	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	85444	52.498	ug/L	100
31) Carbon tetrachloride	5.56	117	70372	52.534	ug/L	99
33) Benzene	5.81	78	213852	53.156	ug/L	100
34) Trichloroethene	6.57	95	54238	51.559	ug/L	96
35) Methylcyclohexane	6.79	83	81872	50.371	ug/L	99
37) 1,2-Dichloropropane	6.82	63	60085	52.417	ug/L	99
38) Bromodichloromethane	7.13	83	79452	53.292	ug/L	97
39) cis-1,3-Dichloropropene	7.63	75	93522	52.236	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	207606	111.610	ug/L	99
42) Toluene	7.99	91	228566	52.501	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	92938	52.712	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	57113	54.572	ug/L	98
46) Tetrachloroethene	8.57	164	36955	52.320	ug/L	91
48) 2-Hexanone	8.71	43	160235	110.772	ug/L	100
49) Dibromochloromethane	8.83	129	62861	53.851	ug/L	99
50) 1,2-Dibromoethane	8.95	107	61298	53.257	ug/L	95
51) Chlorobenzene	9.47	112	142010	52.589	ug/L	97
52) Ethylbenzene	9.59	91	259878	52.785	ug/L	100
53) m,p-Xylene	9.71	106	95358	51.926	ug/L	100
54) o-xylene	10.12	106	95028	53.688	ug/L	95
55) Styrene	10.13	104	166589	53.154	ug/L	100
56) Isopropylbenzene	10.50	105	256694	53.489	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	100700	53.374	ug/L	96
59) 1,2,3-Trichloropropane	10.84	75	80475	54.611	ug/L	100
61) Bromoform	10.31	173	47264	56.721	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	111286	52.874	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	113450	53.407	ug/L	97
65) 1,2-Dichlorobenzene	12.22	146	113178	54.308	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	27606	55.225	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	78121	53.475	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	75385	54.129	ug/L	97
69) Naphthalene	14.11	128	299478	50.757	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	75882	53.935	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.459 ug/L

RT: 1.40 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

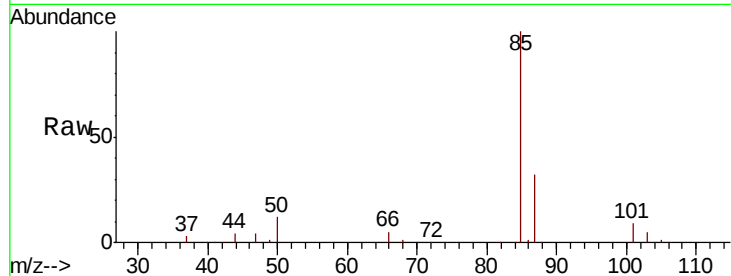
VSTD05060

Tot Ion: 85 Resp: 51260

Ion Ratio Lower Upper

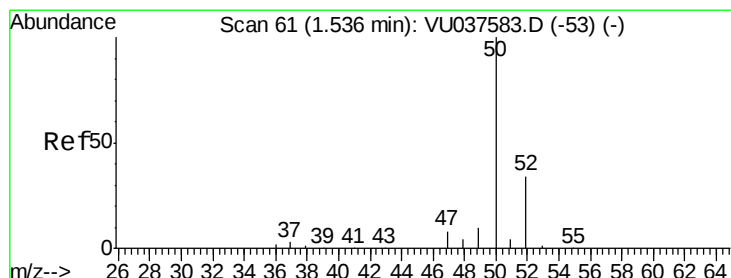
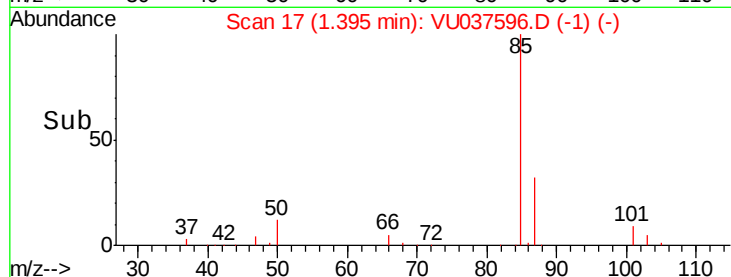
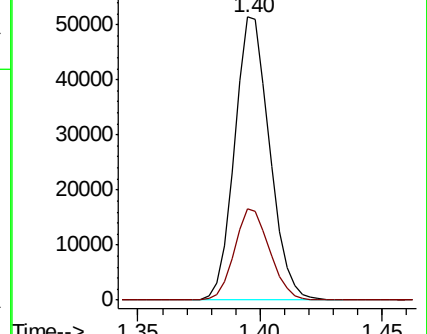
85 100

87 32.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037583.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU037583.D (-10) (-)



#3

Chloromethane

Concen: 45.696 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037596.D

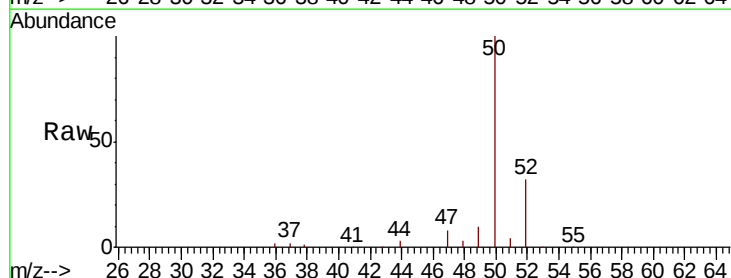
Acq: 06 Apr 2020 18:10

Tgt Ion: 50 Resp: 52354

Ion Ratio Lower Upper

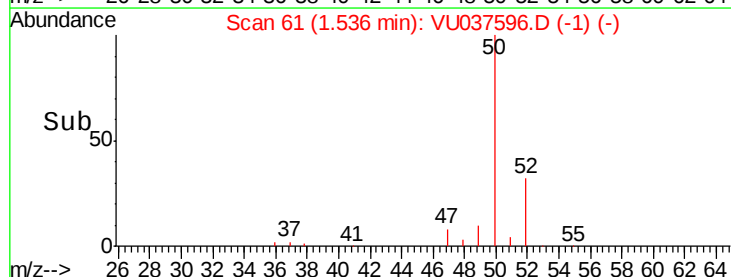
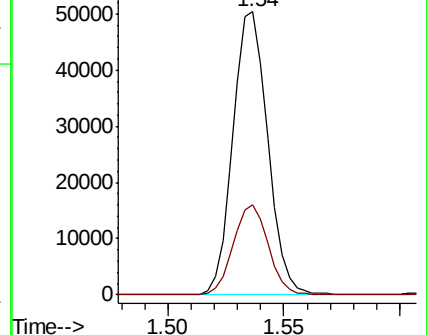
50 100

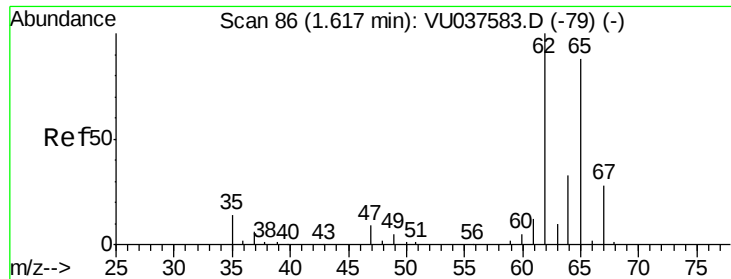
52 31.6 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037583.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU037583.D (-53) (-)





#5

Vinyl chloride

Concen: 48.773 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

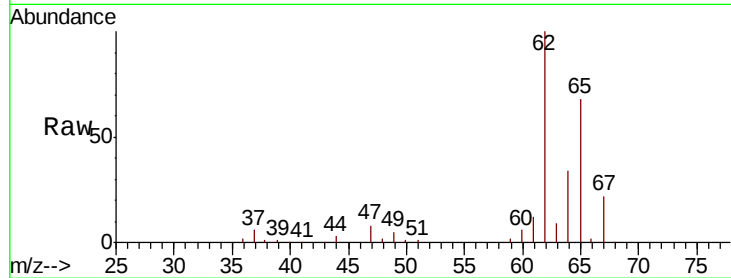
VSTD05060

Tot Ion: 62 Resp: 55488

Ion Ratio Lower Upper

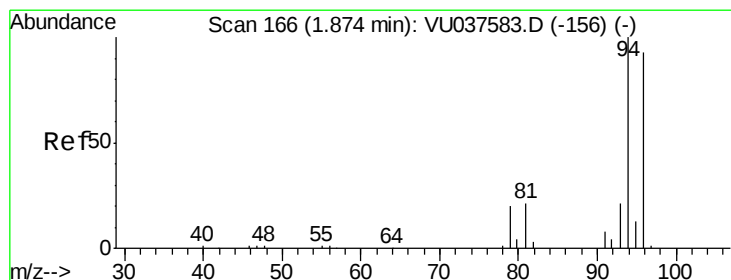
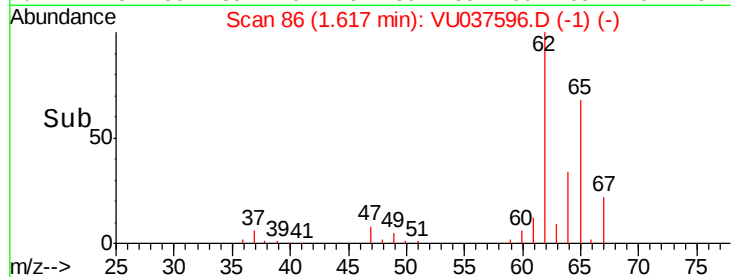
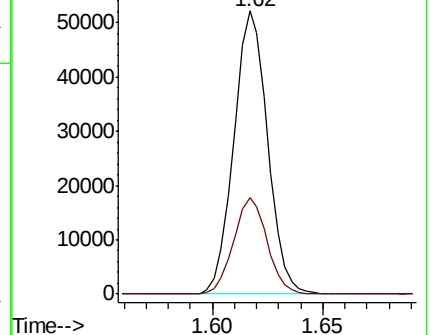
62 100

64 34.1 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU037583.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU037583.D (-79) (-)



#6

Bromomethane

Concen: 51.768 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU037596.D

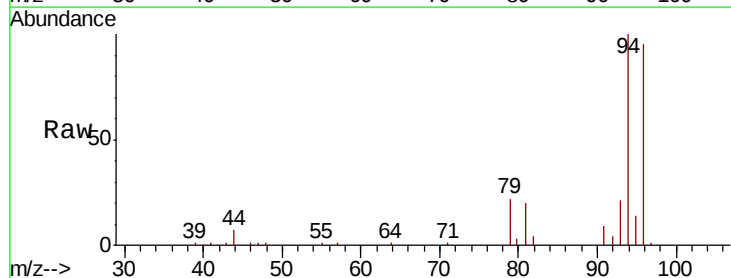
Acq: 06 Apr 2020 18:10

Tgt Ion: 94 Resp: 29047

Ion Ratio Lower Upper

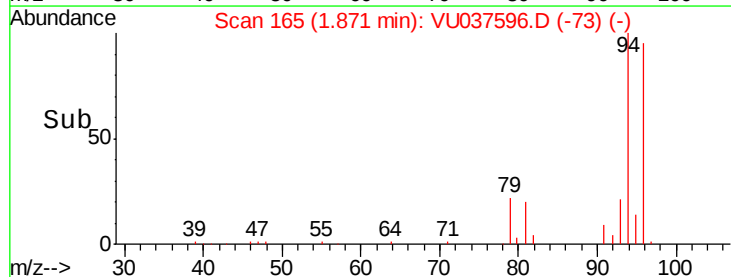
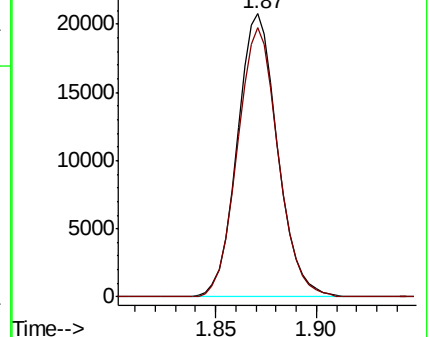
94 100

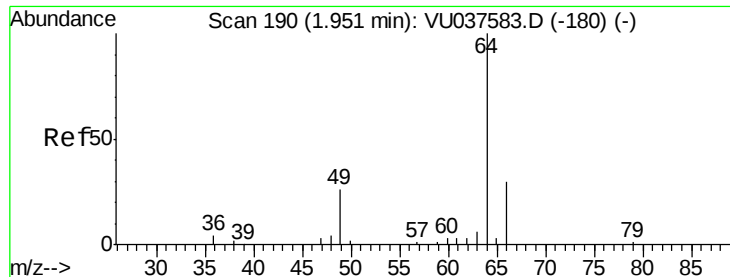
96 95.0 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037583.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU037583.D (-156) (-)





#8

Chloroethane

Concen: 49.422 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

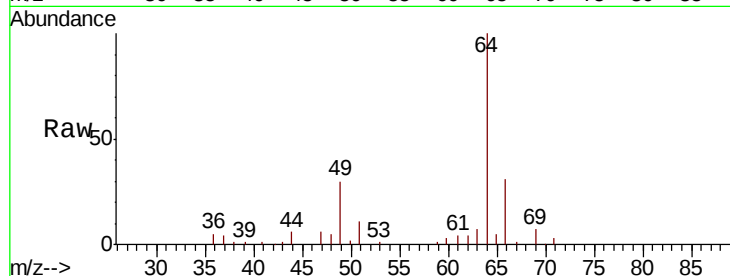
VSTD05060

Tot Ion: 64 Resp: 33161

Ion Ratio Lower Upper

64 100

66 30.9 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037583.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU037596.D (-66) (-)

1.95

25000

20000

15000

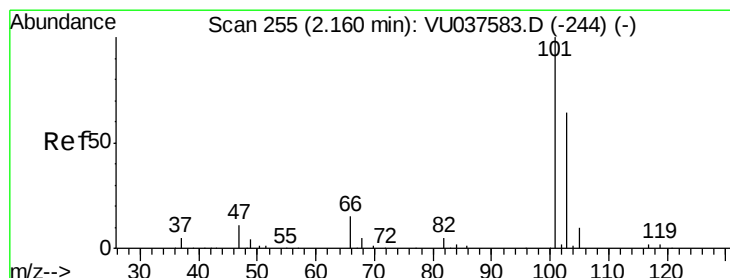
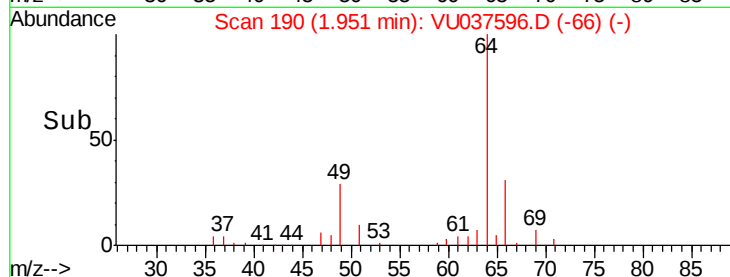
10000

5000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 50.306 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU037596.D

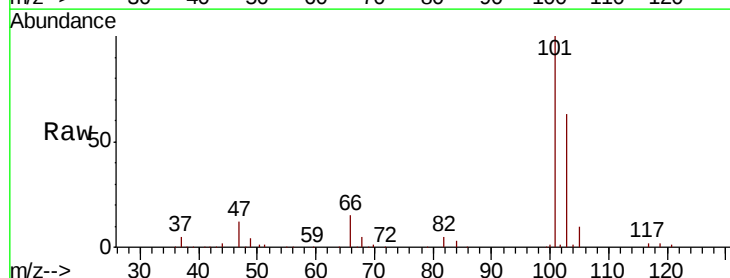
Acq: 06 Apr 2020 18:10

Tgt Ion:101 Resp: 81198

Ion Ratio Lower Upper

101 100

103 63.7 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU037583.D (-244) (-)

Ion 103.00 (102.70 to 103.70): VU037596.D (-131) (-)

2.16

60000

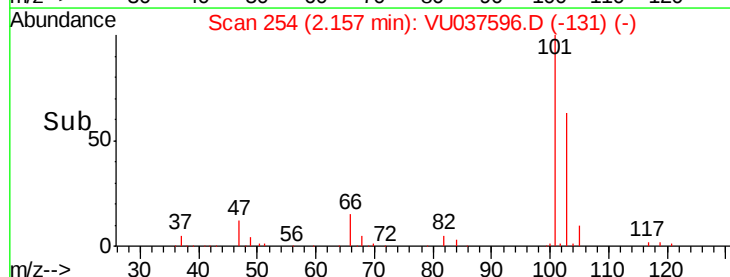
40000

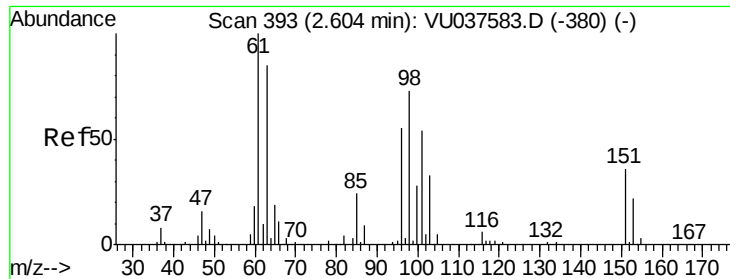
20000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 51.714 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

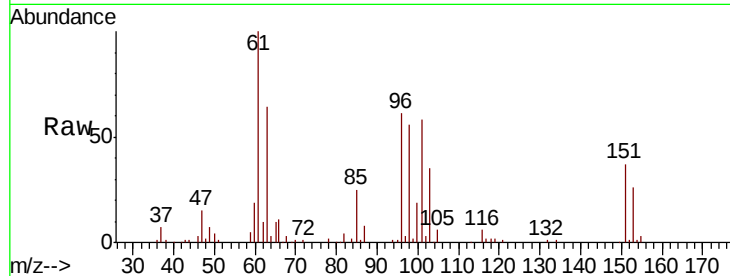
Tot Ion:101 Resp: 47610

Ion Ratio Lower Upper

101 100

85 43.7 35.4 53.2

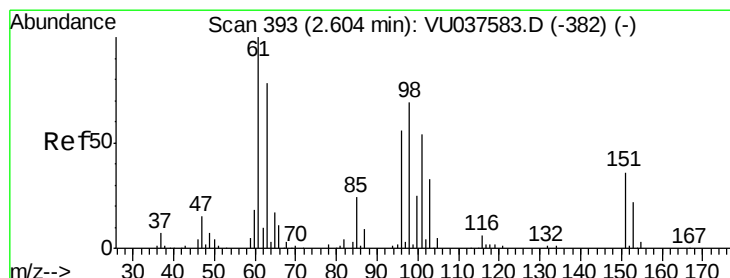
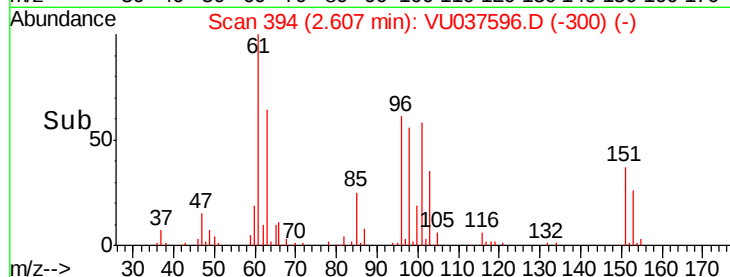
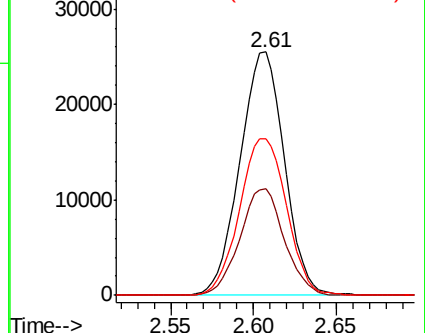
151 67.9 55.3 82.9



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: 49.674 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

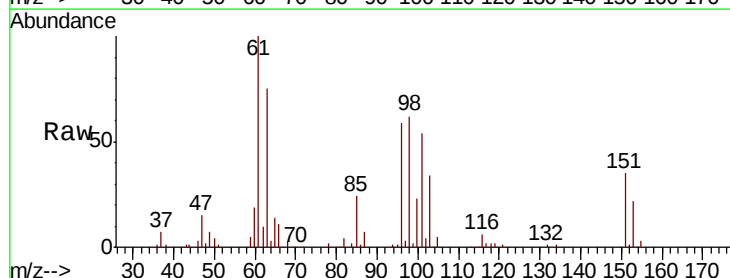
Tgt Ion: 96 Resp: 44393

Ion Ratio Lower Upper

96 100

61 168.6 117.2 217.8

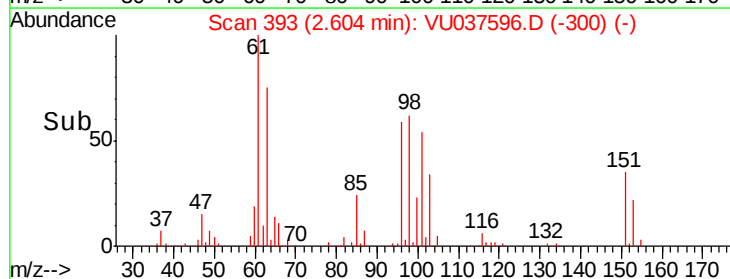
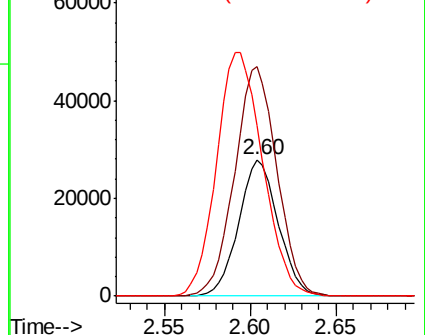
63 125.6 90.9 168.9

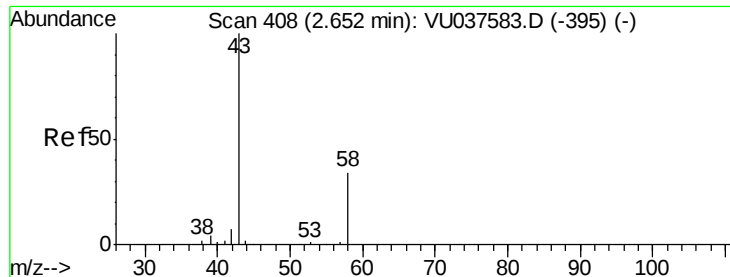


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 98.198 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

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Acq: 06 Apr 2020 18:10

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MSVOA_U

ClientSampleId :

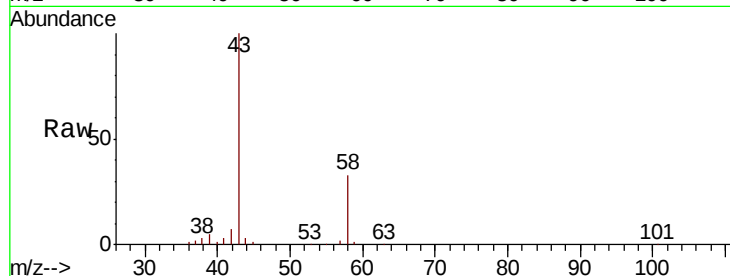
VSTD05060

Tot Ion: 43 Resp: 57887

Ion Ratio Lower Upper

43 100

58 34.3 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VU037583.D (-395) (-)

Ion 58.00 (57.70 to 58.70): VU037583.D (-395) (-)

2.66

30000

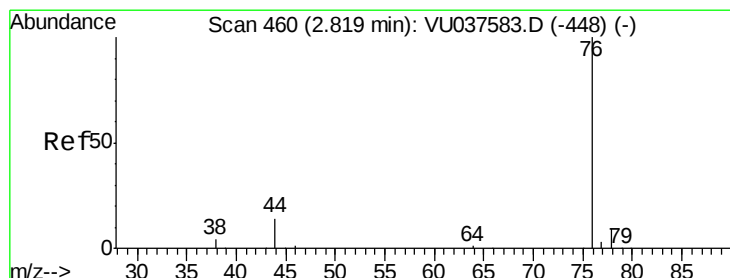
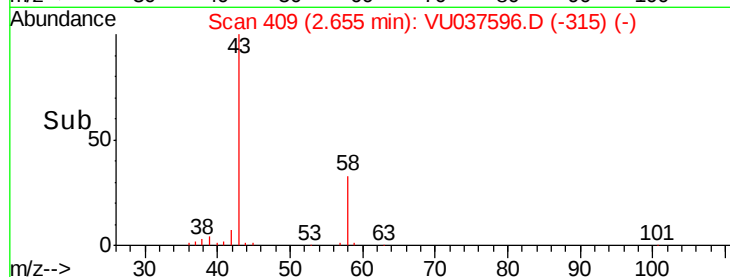
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10000

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Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 45.871 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037596.D

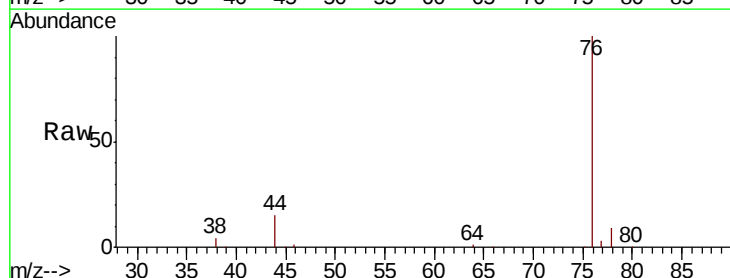
Acq: 06 Apr 2020 18:10

Tgt Ion: 76 Resp: 118415

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU037583.D (-448) (-)

Ion 78.00 (77.70 to 78.70): VU037583.D (-448) (-)

2.82

80000

60000

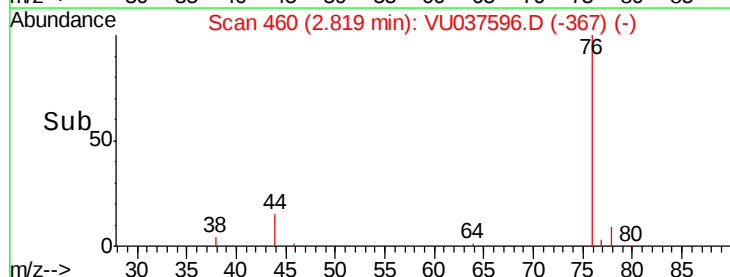
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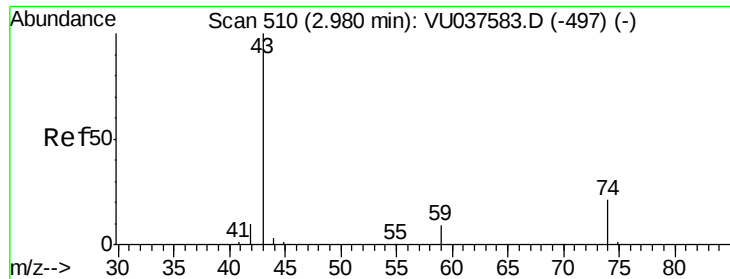
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Time-->

2.75 2.80 2.85 2.90

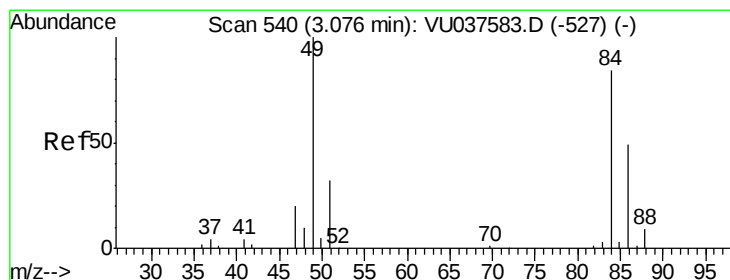
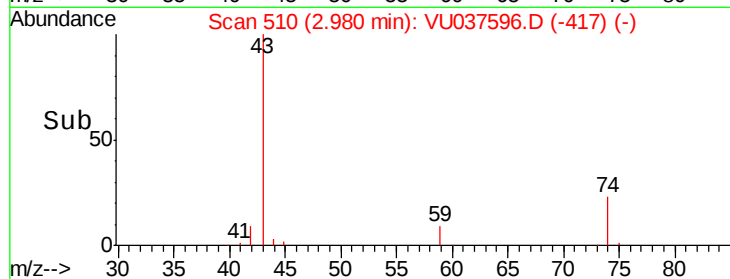
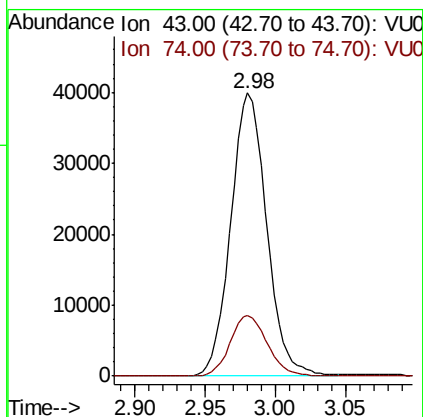
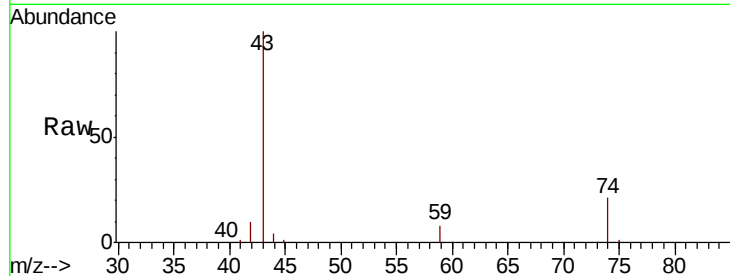




#15
Methvl Acetate
Concen: 53.400 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

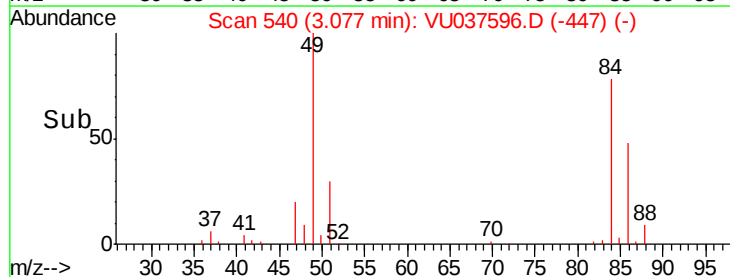
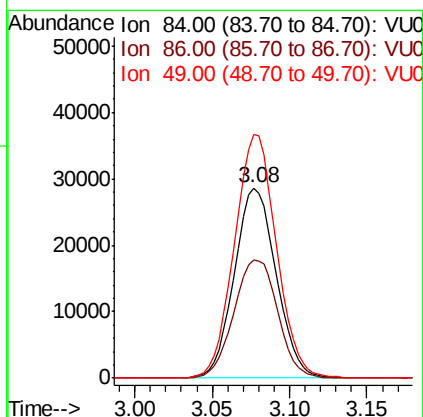
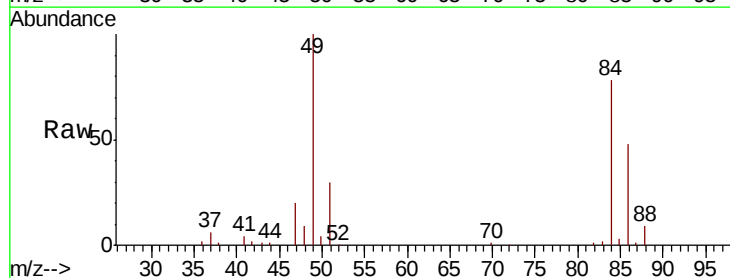
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

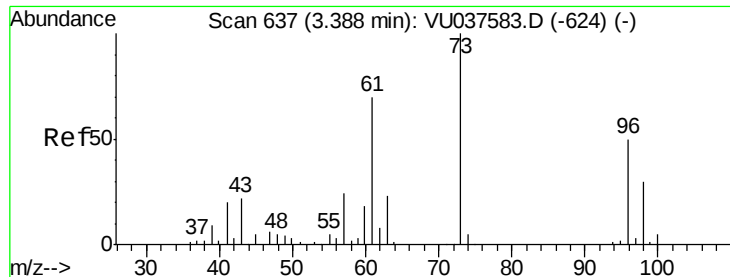
Tot Ion: 43 Resp: 71333
Ion Ratio Lower Upper
43 100
74 22.2 18.8 28.2



#16
Methylene chloride
Concen: 49.723 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

Tgt Ion: 84 Resp: 53900
Ion Ratio Lower Upper
84 100
86 61.8 44.8 83.2
49 127.9 89.7 166.5

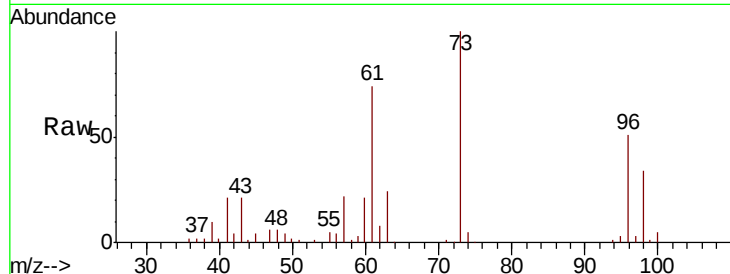




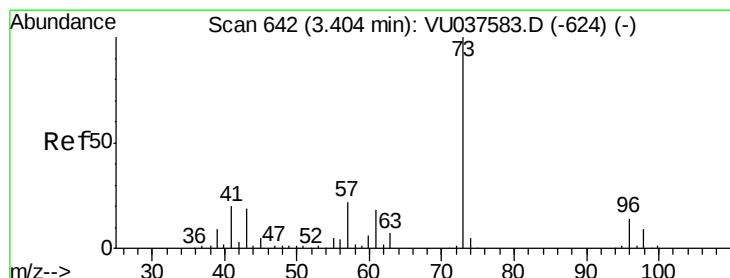
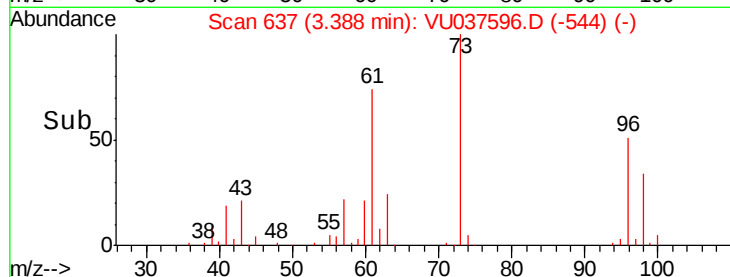
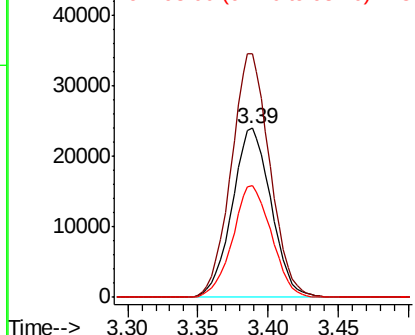
#17
 trans-1,2-Dichloroethene
 Concen: 48.359 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tot Ion: 96 Resp: 46538
 Ion Ratio Lower Upper
 96 100
 61 143.5 97.3 180.7
 98 65.8 42.7 79.3

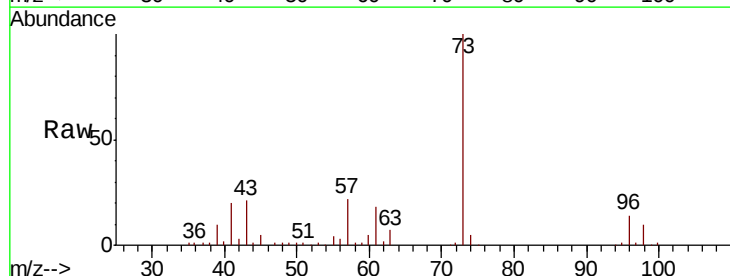


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

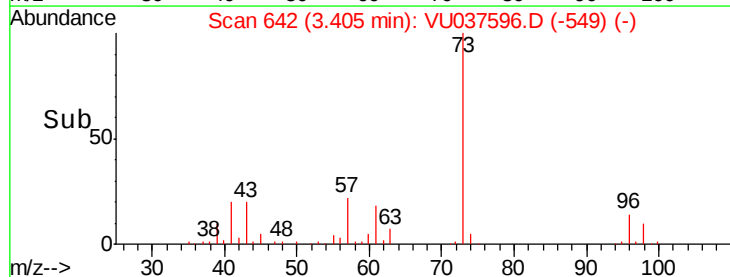
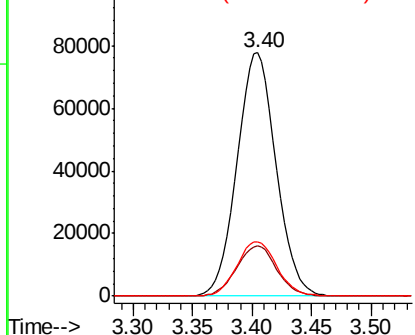


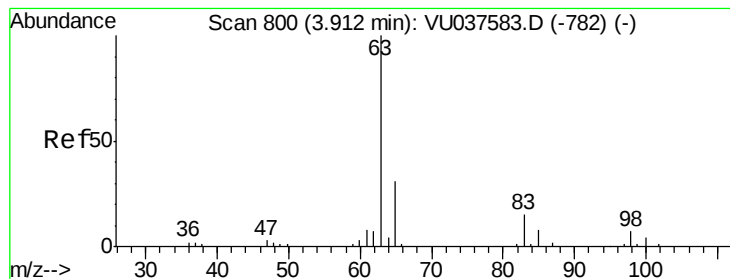
#18
 Methyl tert-butyl Ether
 Concen: 52.276 ug/L
 RT: 3.40 min Scan# 642
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion: 73 Resp: 176345
 Ion Ratio Lower Upper
 73 100
 43 21.3 16.4 24.6
 57 23.0 17.7 26.5



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





#19

1,1-Dichloroethane

Concen: 51.040 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

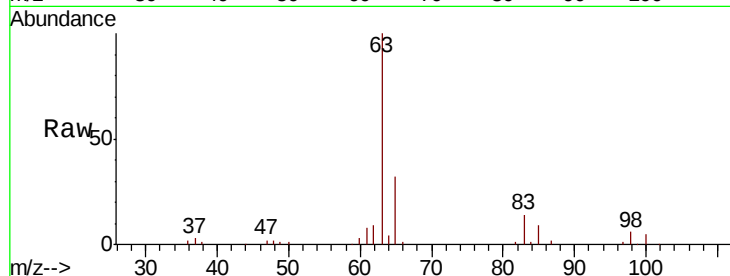
Tot Ion: 63 Resp: 96234

Ion Ratio Lower Upper

63 100

65 31.5 23.2 43.2

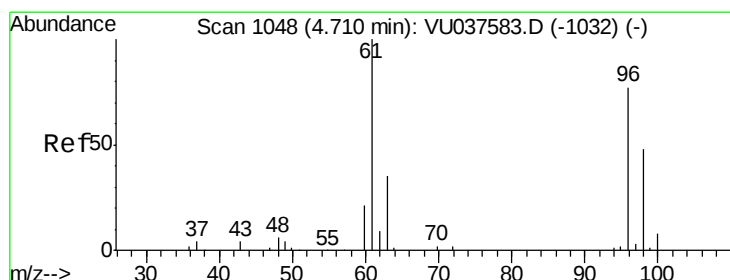
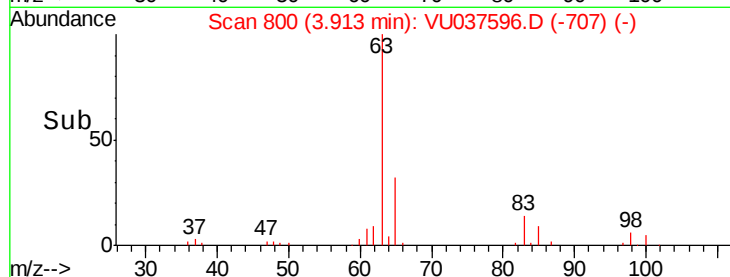
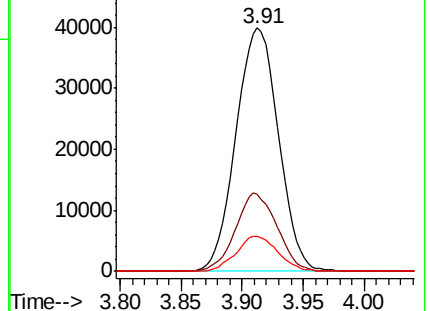
83 14.3 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU037583.D (-782) (-)

Ion 65.00 (64.70 to 65.70): VU037583.D (-782) (-)

Ion 83.00 (82.70 to 83.70): VU037583.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.231 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

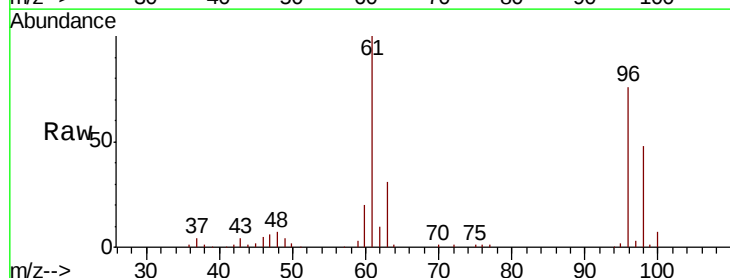
Tgt Ion: 96 Resp: 56775

Ion Ratio Lower Upper

96 100

61 131.4 90.2 167.6

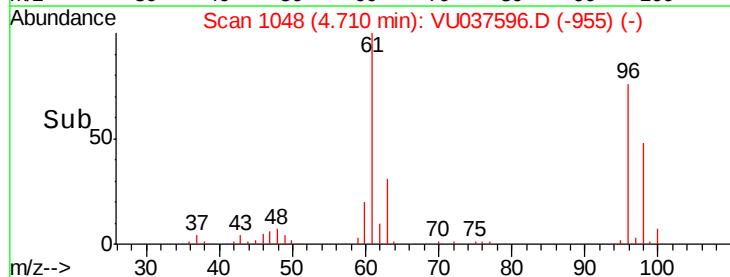
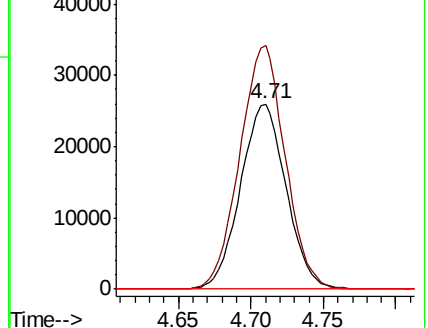
68 0.0 0.0 0.0

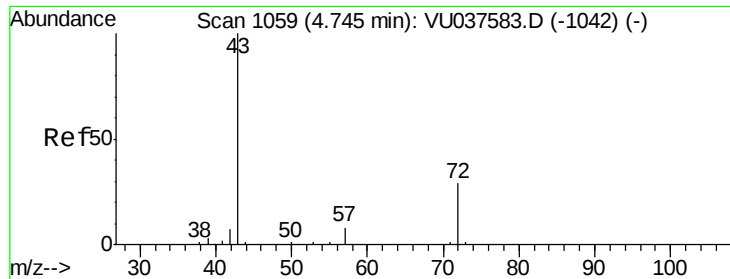


Abundance Ion 96.00 (95.70 to 96.70): VU037583.D (-1032) (-)

Ion 61.00 (60.70 to 61.70): VU037583.D (-1032) (-)

Ion 68.00 (67.70 to 68.70): VU037583.D (-1032) (-)





#22

2-Butanone

Concen: 105.297 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

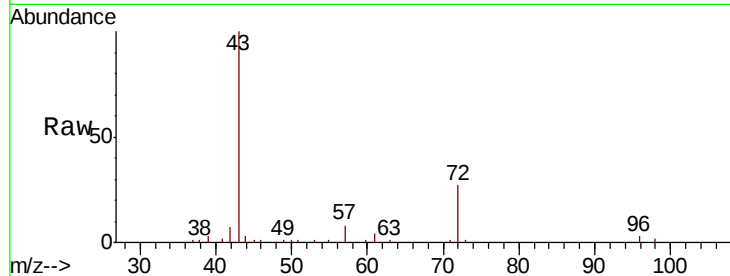
VSTD05060

Tot Ion: 43 Resp: 101312

Ion Ratio Lower Upper

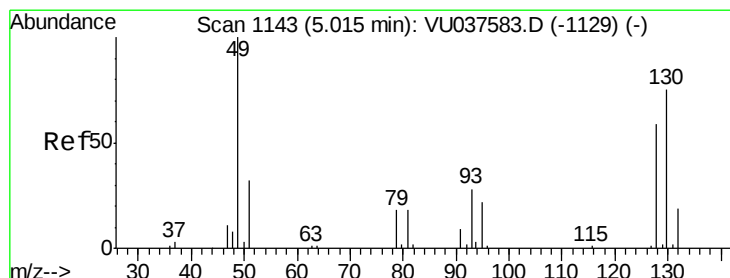
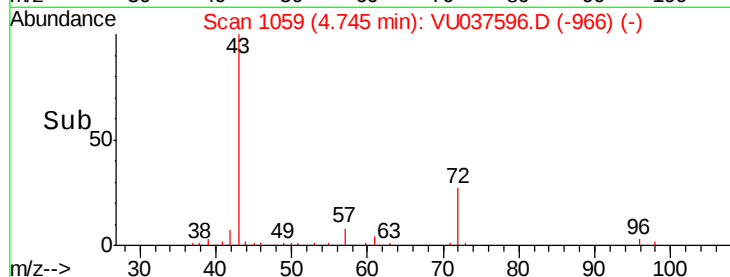
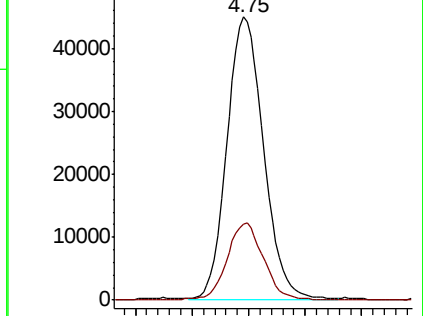
43 100

72 27.2 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037583.D (-1042) (-)

Ion 72.00 (71.70 to 72.70): VU037583.D (-1042) (-)



#23

Bromochloromethane

Concen: 52.642 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Tgt Ion:128 Resp: 28001

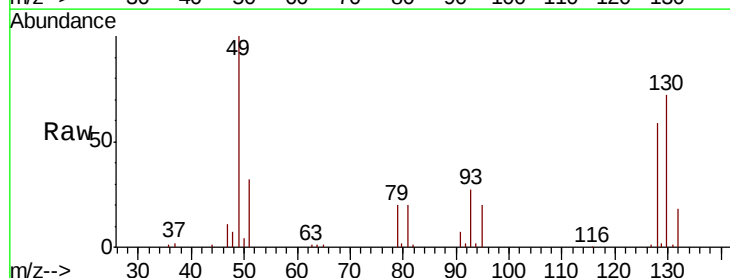
Ion Ratio Lower Upper

128 100

49 170.5 127.3 236.5

130 123.5 93.9 174.5

51 54.1 49.4 74.0

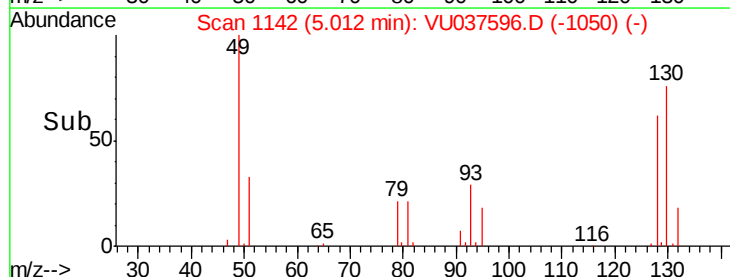
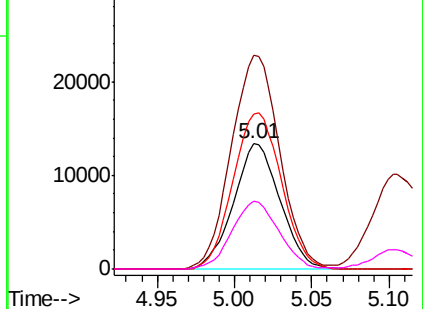


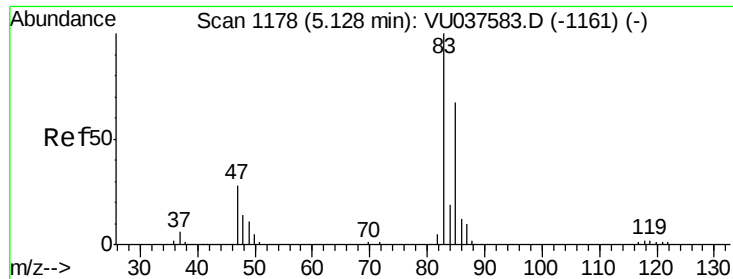
Abundance Ion 128.00 (127.70 to 128.70): VU037583.D (-1129) (-)

Ion 49.00 (48.70 to 49.70): VU037583.D (-1129) (-)

Ion 130.00 (129.70 to 130.70): VU037583.D (-1129) (-)

Ion 51.00 (50.70 to 51.70): VU037583.D (-1129) (-)

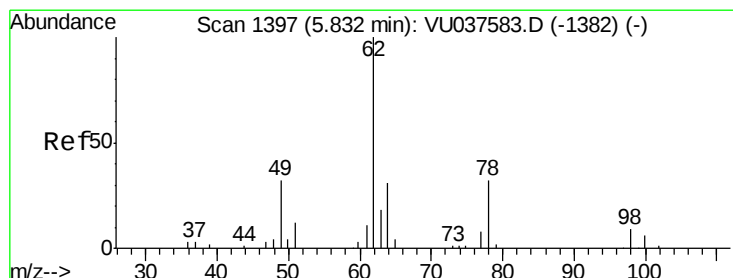
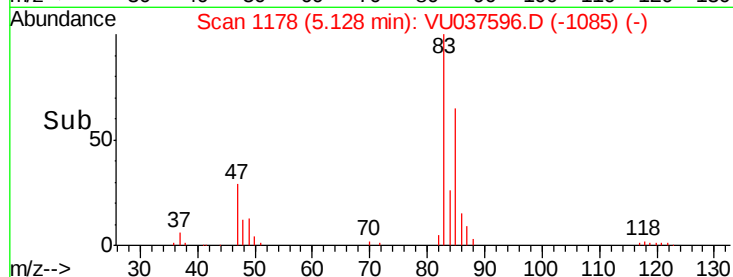
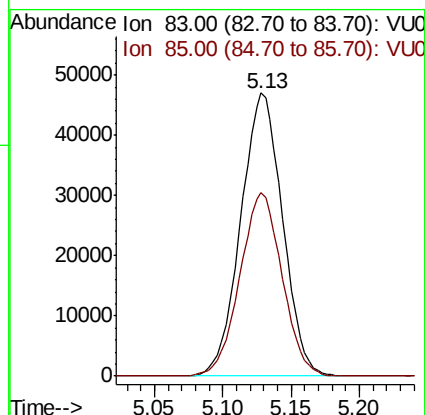
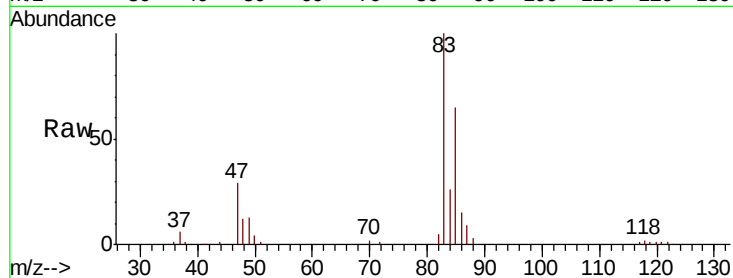




#25
Chloroform
Concen: 50.766 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

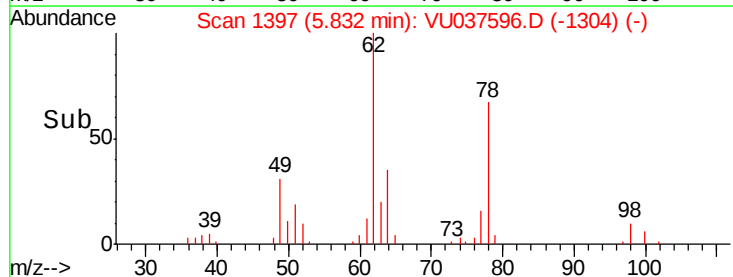
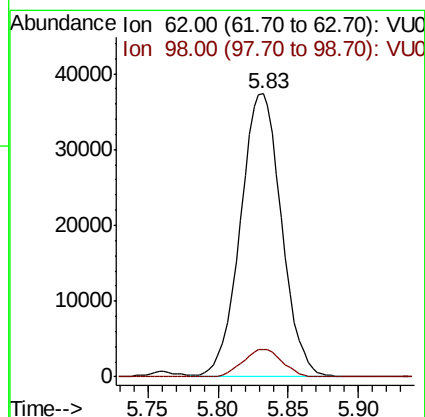
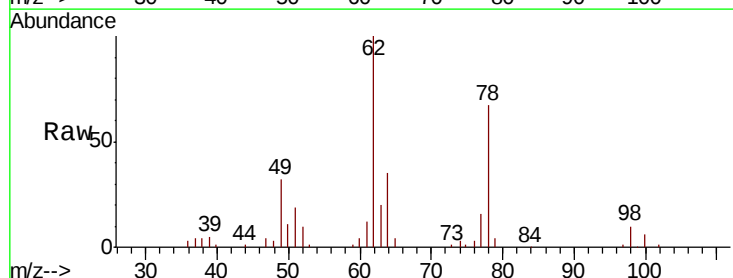
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

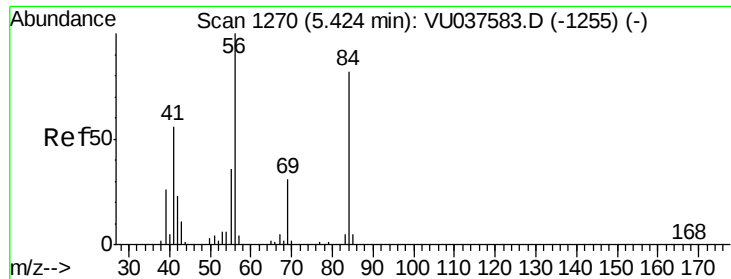
Tot Ion: 83 Resp: 99796
Ion Ratio Lower Upper
83 100
85 64.7 43.7 81.1



#27
1,2-Dichloroethane
Concen: 50.246 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

Tgt Ion: 62 Resp: 76231
Ion Ratio Lower Upper
62 100
98 9.6 7.1 10.7

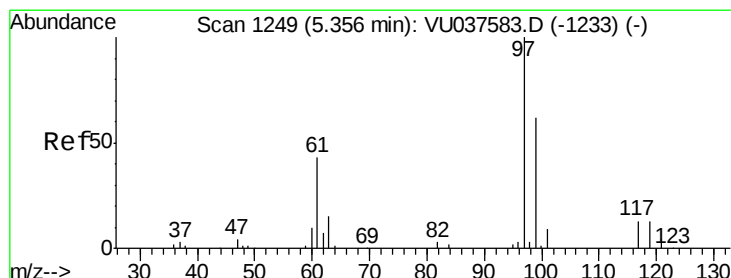
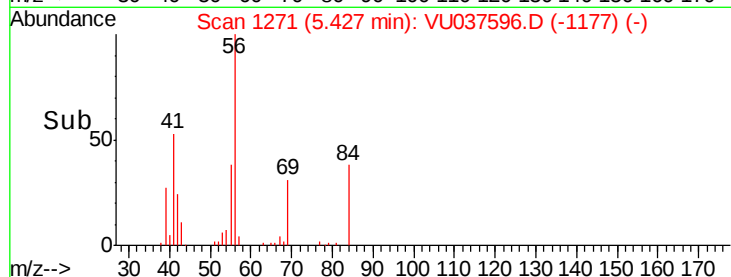
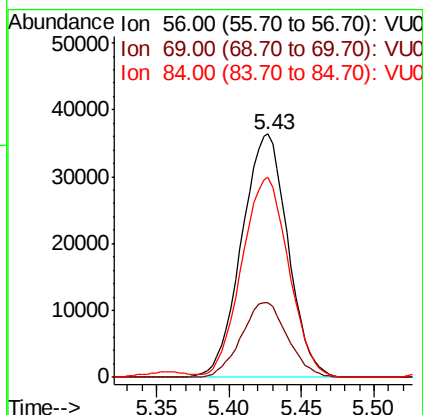
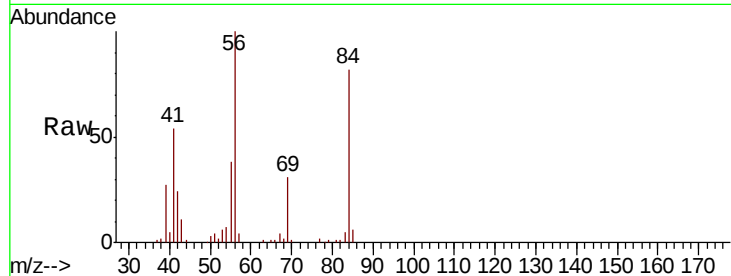




#29
Cyclohexane
Concen: 50.172 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

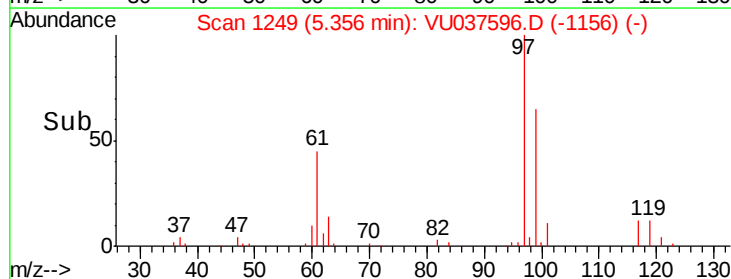
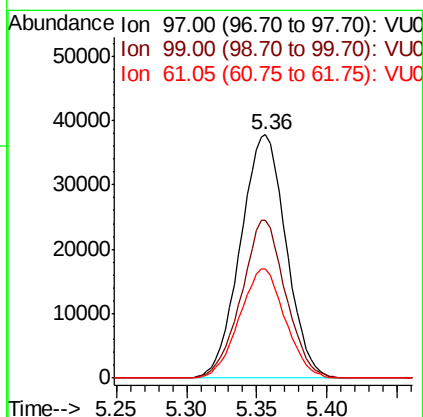
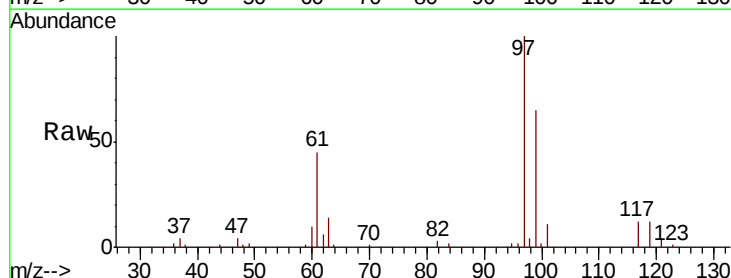
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

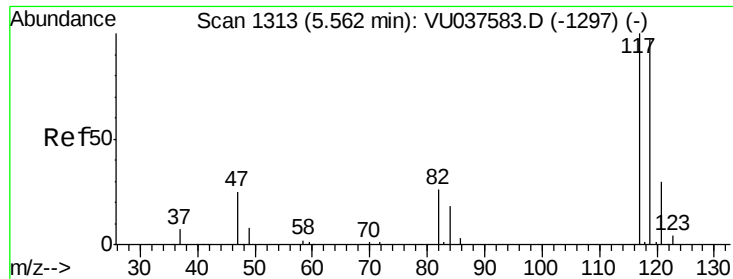
Tot Ion: 56 Resp: 80733
Ion Ratio Lower Upper
56 100
69 30.8 23.8 35.6
84 83.5 65.4 98.0



#30
1,1,1-Trichloroethane
Concen: 52.498 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

Tgt Ion: 97 Resp: 85444
Ion Ratio Lower Upper
97 100
99 62.9 50.6 75.8
61 45.0 35.8 53.8





#31

Carbon tetrachloride

Concen: 52.534 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

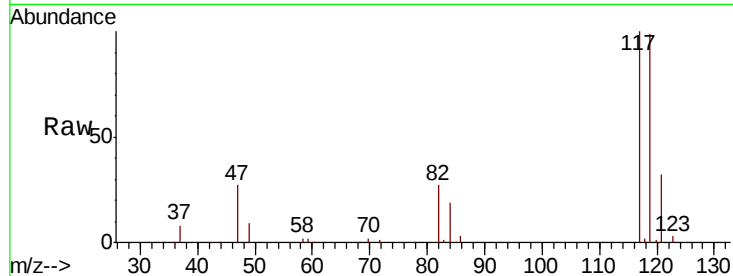
VSTD05060

Tot Ion:117 Resp: 70372

Ion Ratio Lower Upper

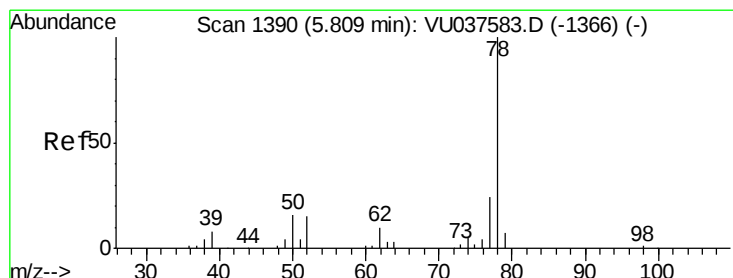
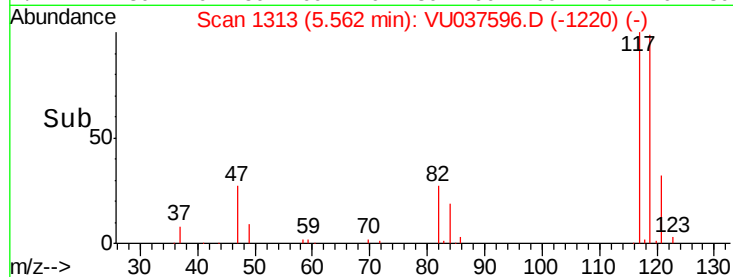
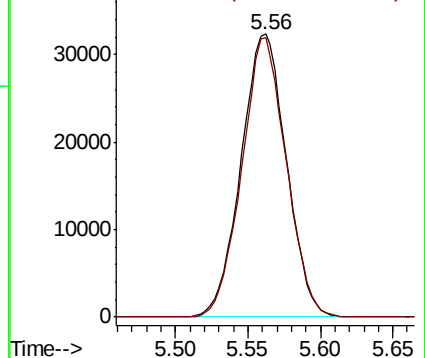
117 100

119 96.3 77.8 116.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.156 ug/L

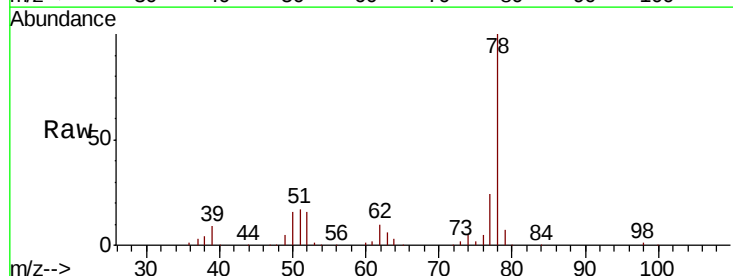
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

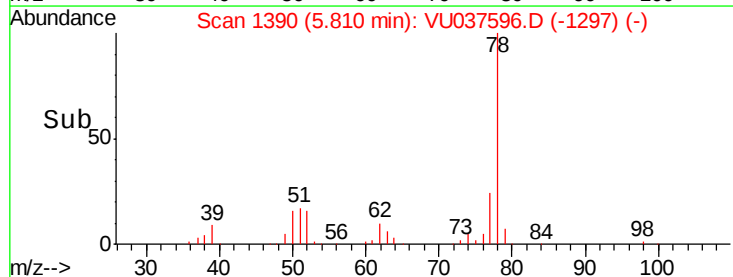
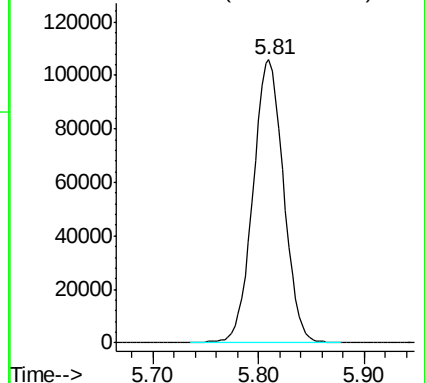
Lab File: VU037596.D

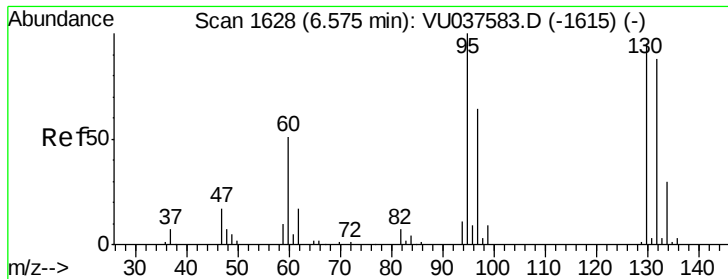
Acq: 06 Apr 2020 18:10

Tgt Ion: 78 Resp: 213852



Abundance Ion 78.00 (77.70 to 78.70): VU0

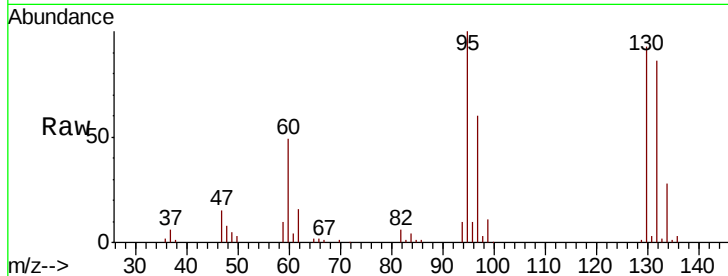




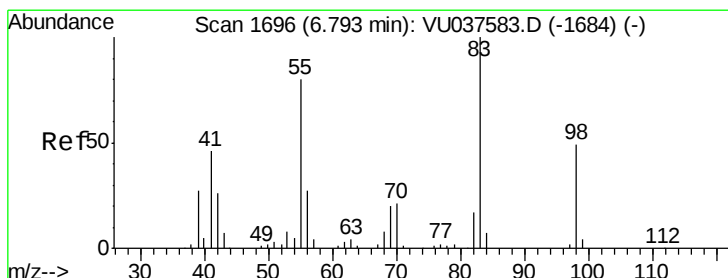
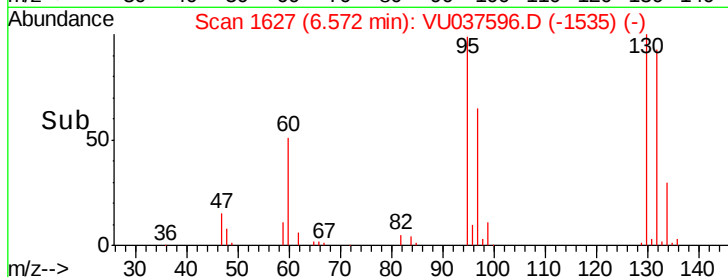
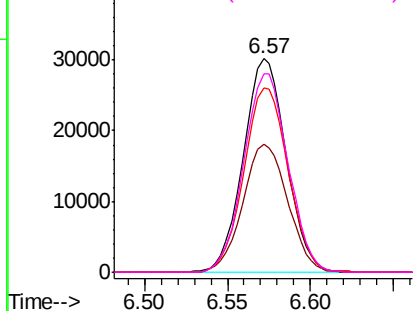
#34
 Trichloroethene
 Concen: 51.559 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tot Ion: 95 Resp: 54238
 Ion Ratio Lower Upper
 95 100
 97 59.8 45.2 84.0
 132 86.3 63.7 118.3
 130 92.6 64.5 119.7

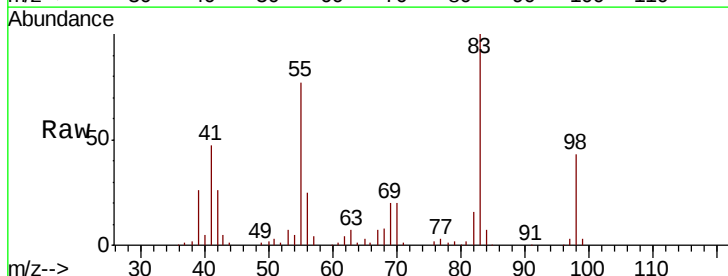


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

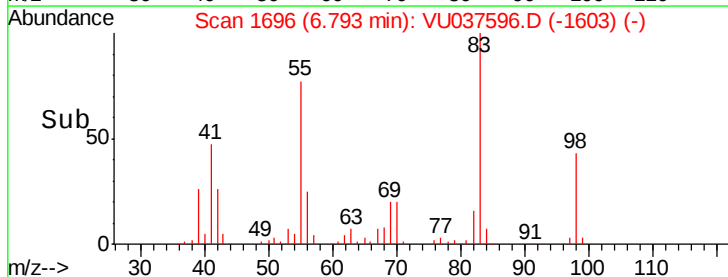
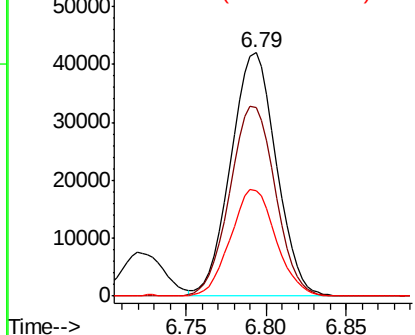


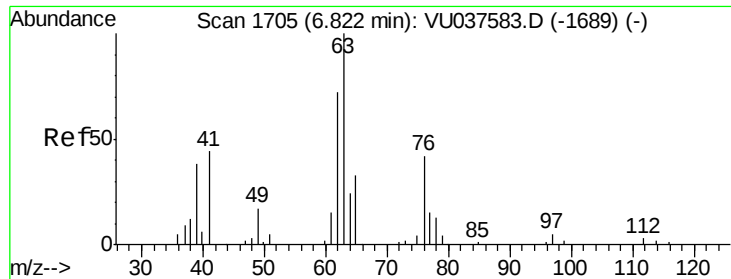
#35
 Methylcyclohexane
 Concen: 50.371 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion: 83 Resp: 81872
 Ion Ratio Lower Upper
 83 100
 55 77.9 61.1 91.7
 98 43.6 35.3 52.9



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

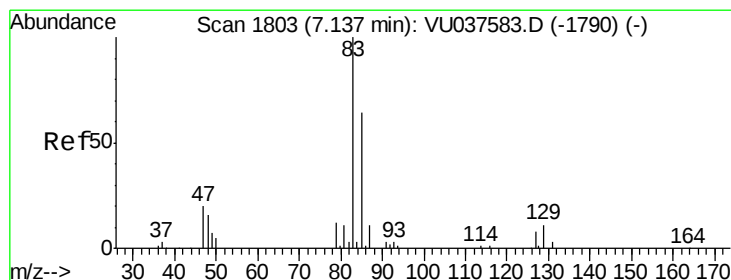
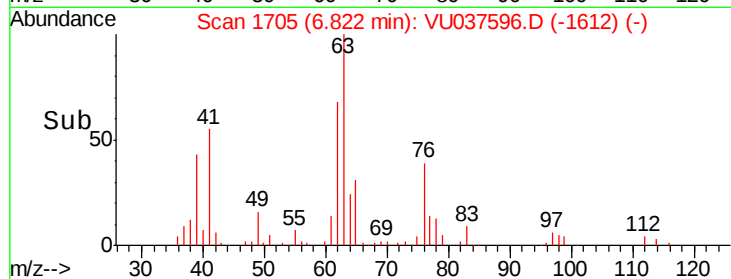
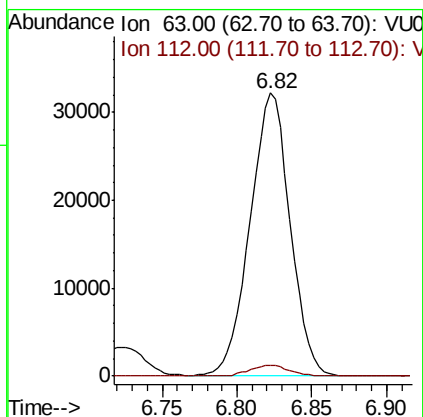
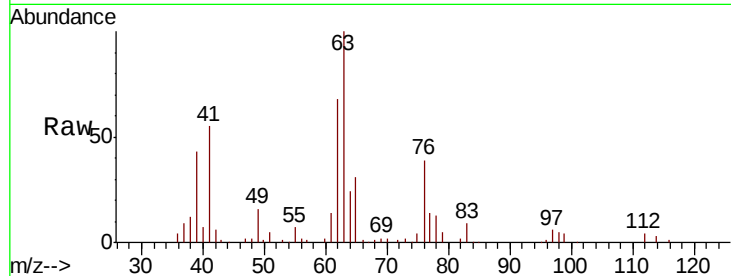




#37
 1,2-Dichloropropane
 Concen: 52.417 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

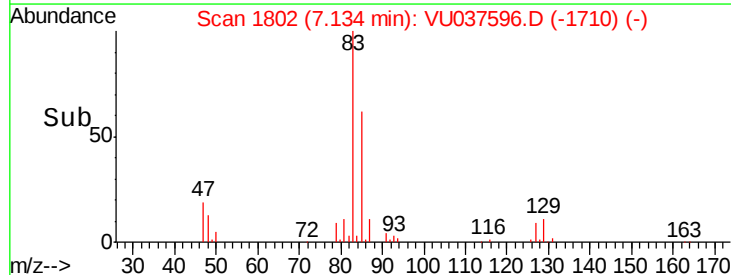
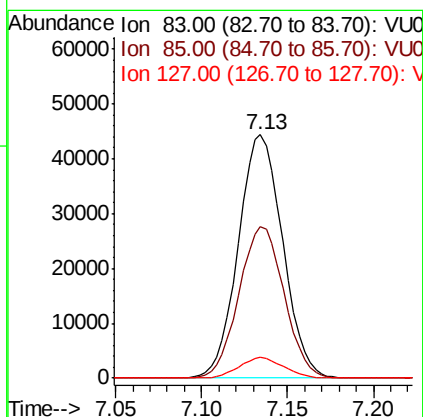
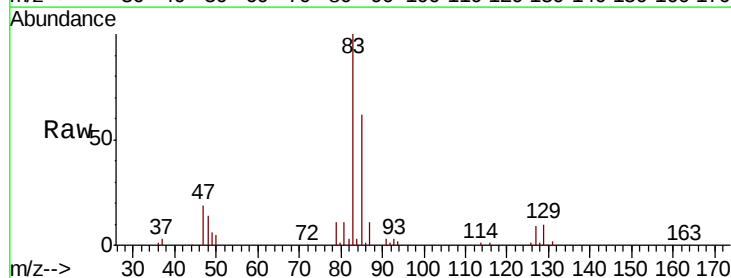
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

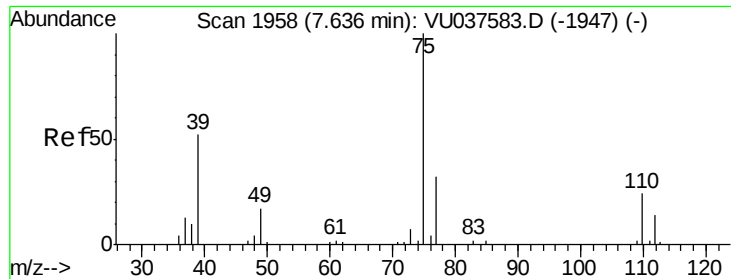
Tot Ion: 63 Resp: 60085
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.1 4.7



#38
 Bromodichloromethane
 Concen: 53.292 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion: 83 Resp: 79452
 Ion Ratio Lower Upper
 83 100
 85 62.1 45.2 84.0
 127 8.5 7.0 10.4

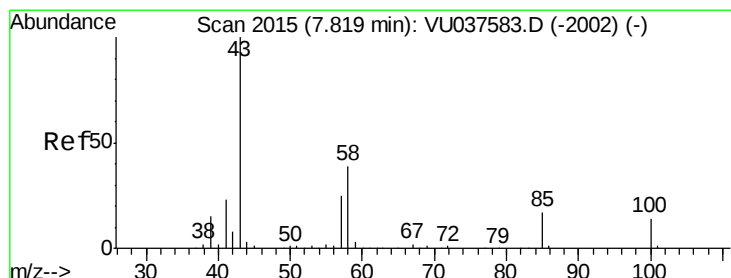
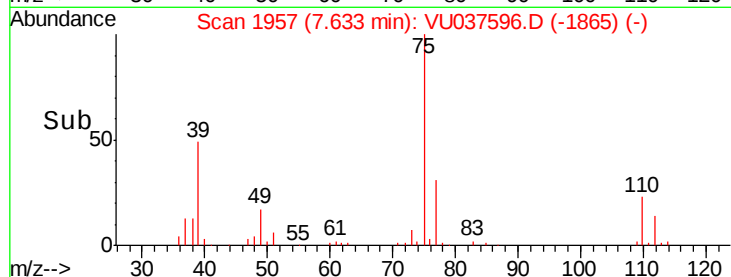
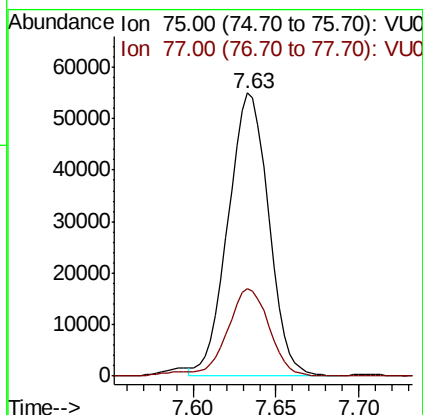
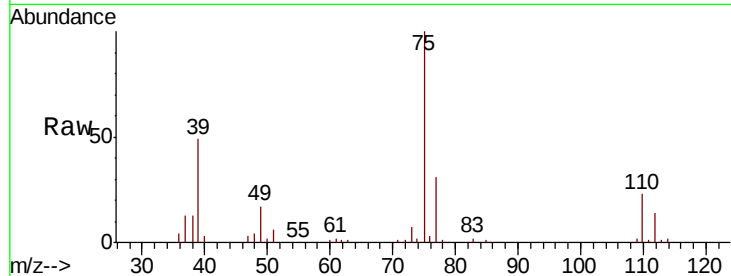




#39
 cis-1,3-Dichloropropene
 Concen: 52.236 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

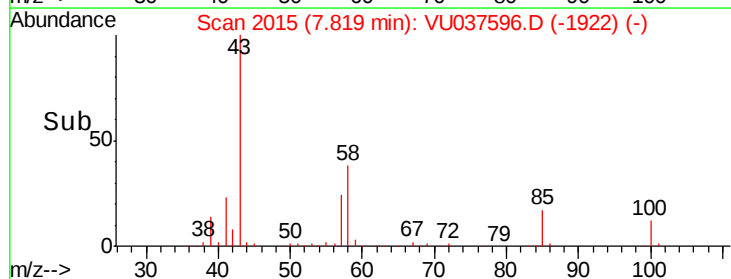
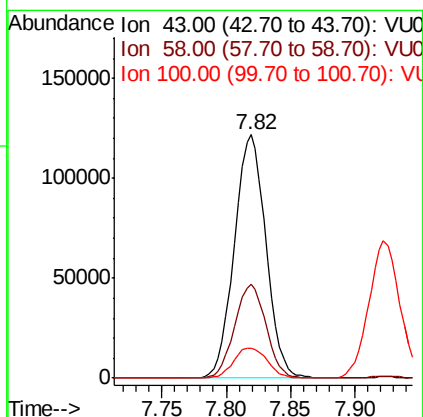
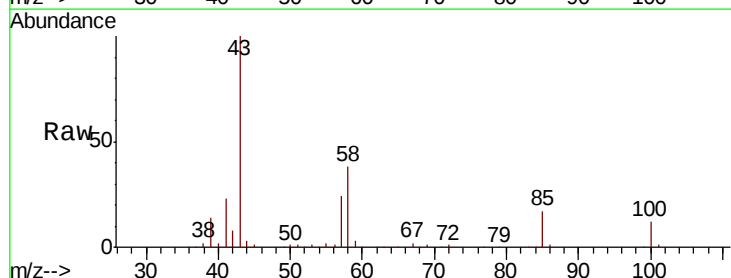
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

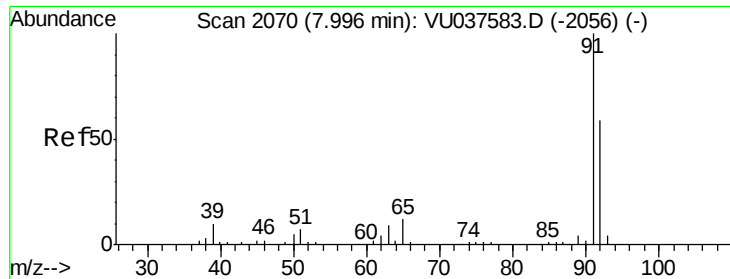
Tot Ion: 75 Resp: 93522
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 111.610 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion: 43 Resp: 207606
 Ion Ratio Lower Upper
 43 100
 58 38.4 31.4 47.0
 100 13.1 11.0 16.4





#42

Toluene

Concen: 52.501 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

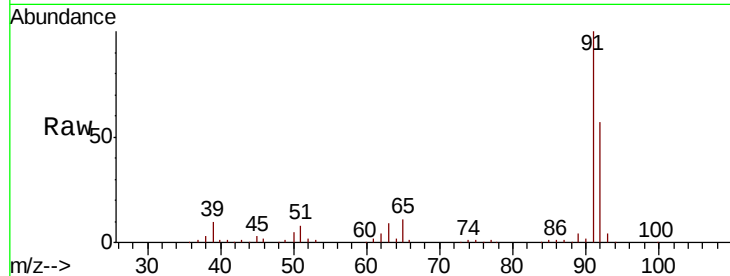
VSTD05060

Tot Ion: 91 Resp: 228566

Ion Ratio Lower Upper

91 100

92 57.3 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037583.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU037583.D (-2056) (-)

7.99

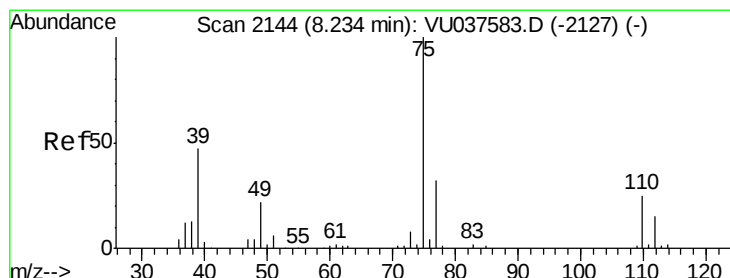
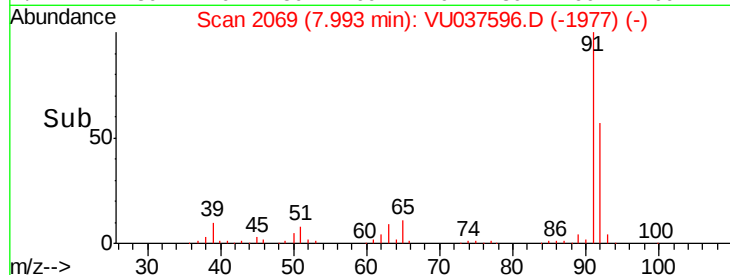
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.712 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037596.D

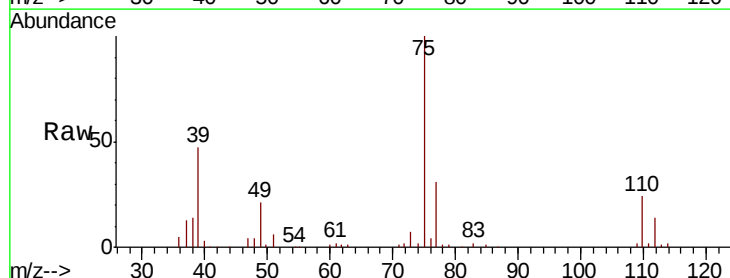
Acq: 06 Apr 2020 18:10

Tgt Ion: 75 Resp: 92938

Ion Ratio Lower Upper

75 100

77 31.4 23.4 43.6



Abundance Ion 75.00 (74.70 to 75.70): VU037583.D (-2127) (-)

Ion 77.00 (76.70 to 77.70): VU037583.D (-2127) (-)

8.23

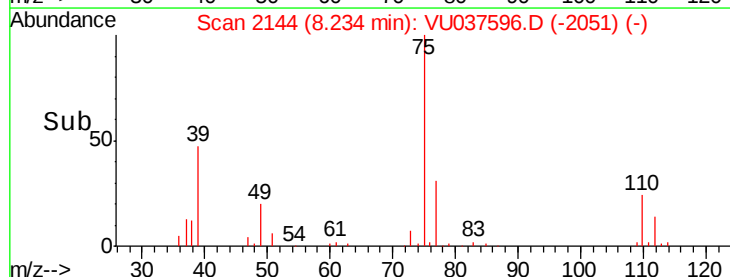
60000

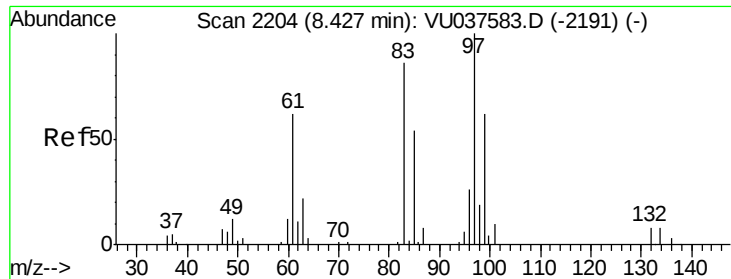
40000

20000

0

Time-->

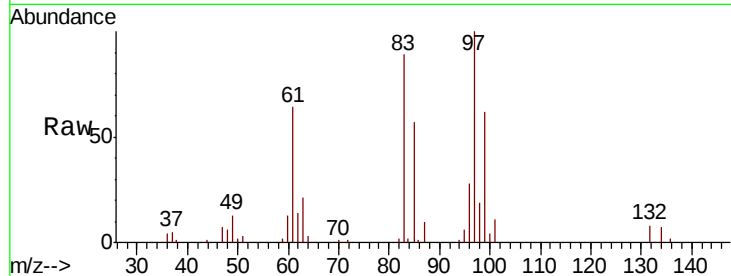




#45
1,1,2-Trichloroethane
Concen: 54.572 ug/L
RT: 8.42 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tot Ion:	97	Resp:	57113
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.3	80.5
83	89.1	60.8	112.8
85	56.9	37.9	70.5



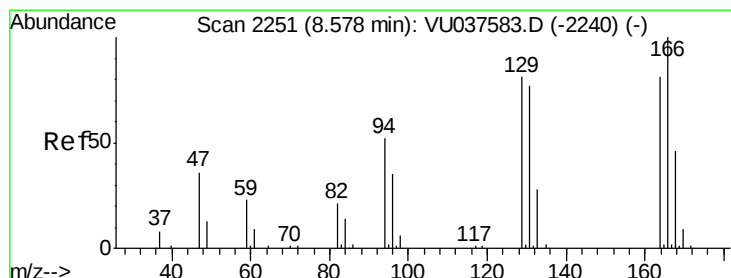
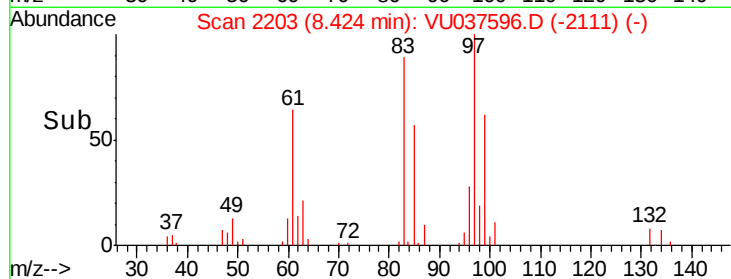
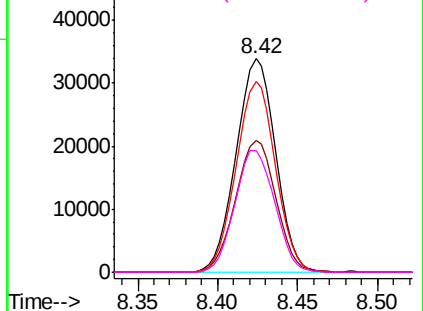
Abundance

Ion 97.00 (96.70 to 97.70): VU037583.D (-2191) (-)

Ion 99.00 (98.70 to 99.70): VU037583.D (-2191) (-)

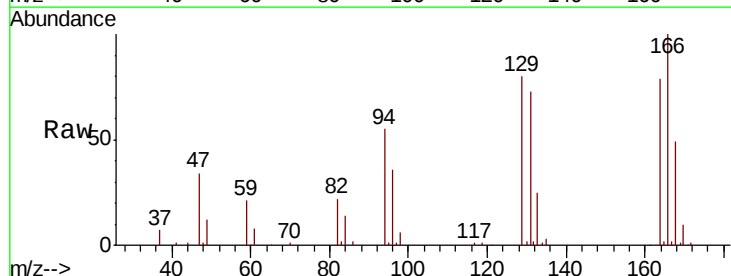
Ion 83.00 (82.70 to 83.70): VU037583.D (-2191) (-)

Ion 85.00 (84.70 to 85.70): VU037583.D (-2191) (-)



#46
Tetrachloroethene
Concen: 52.320 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. -0.00 min
Lab File: VU037596.D
Acq: 06 Apr 2020 18:10

Tgt Ion:	164	Resp:	36955
Ion	Ratio	Lower	Upper
164	100		
129	98.3	76.5	142.1
131	89.3	71.7	133.1
166	122.9	88.8	165.0



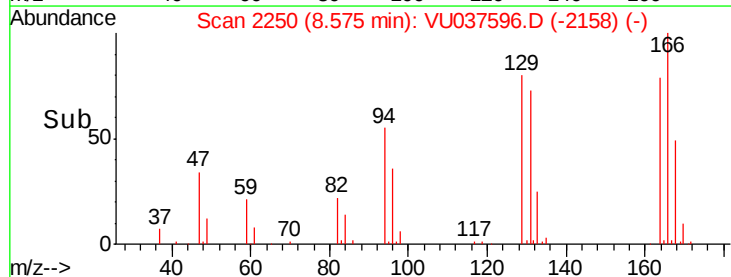
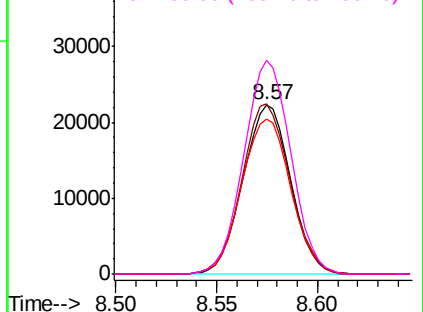
Abundance

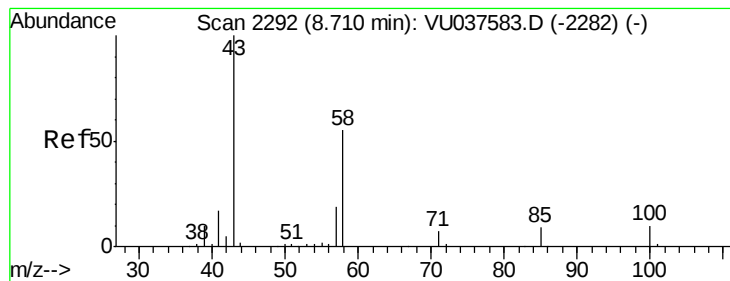
Ion 164.00 (163.70 to 164.70): VU037583.D (-2240) (-)

Ion 129.00 (128.70 to 129.70): VU037583.D (-2240) (-)

Ion 131.00 (130.70 to 131.70): VU037583.D (-2240) (-)

Ion 166.00 (165.70 to 166.70): VU037583.D (-2240) (-)





#48

2-Hexanone

Concen: 110.772 ug/L

RT: 8.71 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tot Ion: 43 Resp: 160235

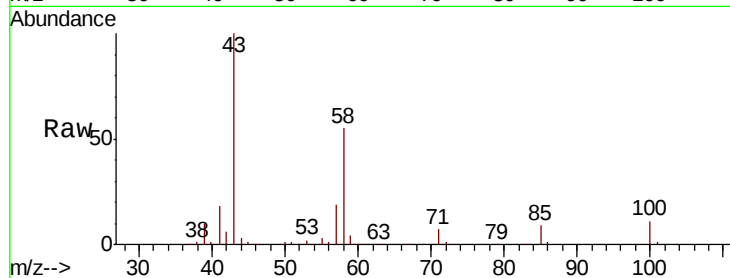
Ion Ratio Lower Upper

43 100

58 55.6 44.4 66.6

57 19.1 15.1 22.7

100 10.5 8.7 13.1

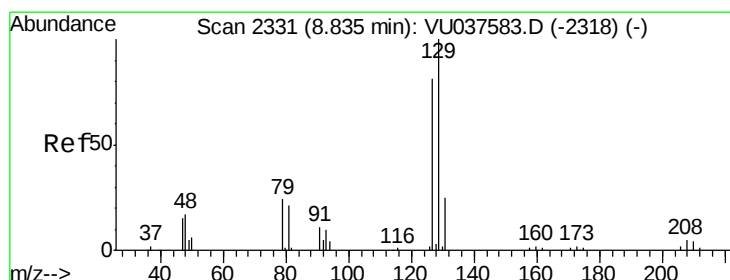
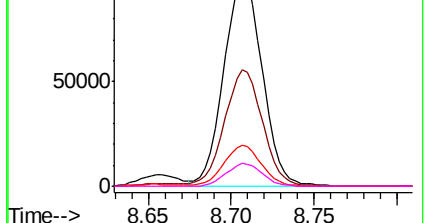
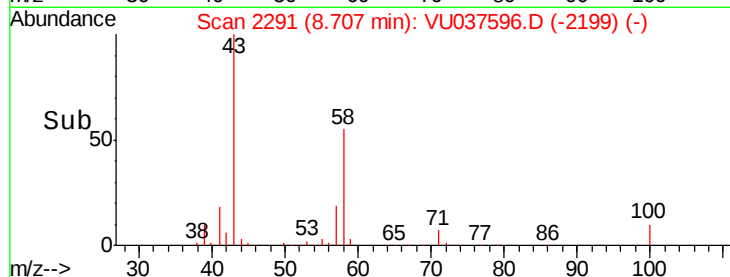


Abundance Ion 43.00 (42.70 to 43.70): VU037583.D (-2282) (-)

Ion 58.00 (57.70 to 58.70): VU037583.D (-2282) (-)

Ion 57.00 (56.70 to 57.70): VU037583.D (-2282) (-)

Ion 100.00 (99.70 to 100.70): VU037583.D (-2282) (-)



#49

Dibromochloromethane

Concen: 53.851 ug/L

RT: 8.83 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU037596.D

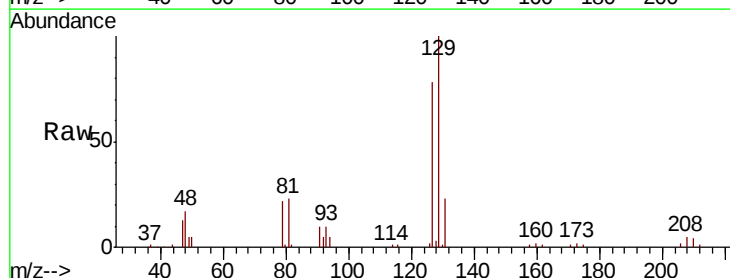
Acq: 06 Apr 2020 18:10

Tgt Ion: 129 Resp: 62861

Ion Ratio Lower Upper

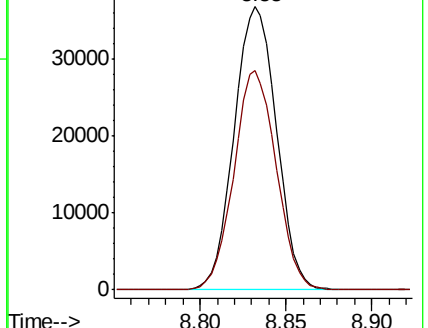
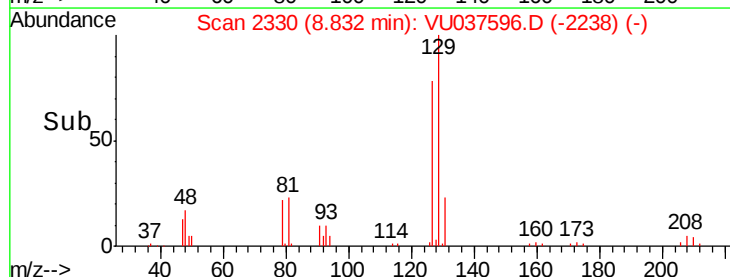
129 100

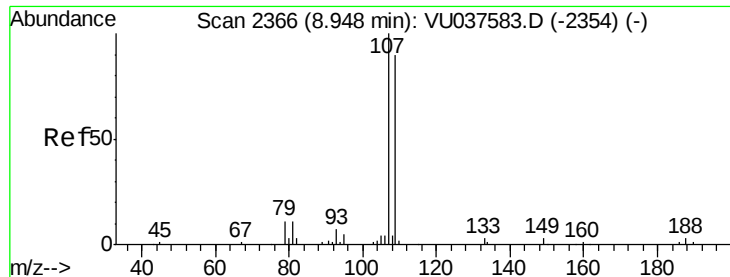
127 77.5 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): VU037583.D (-2318) (-)

Ion 127.00 (126.70 to 127.70): VU037583.D (-2318) (-)

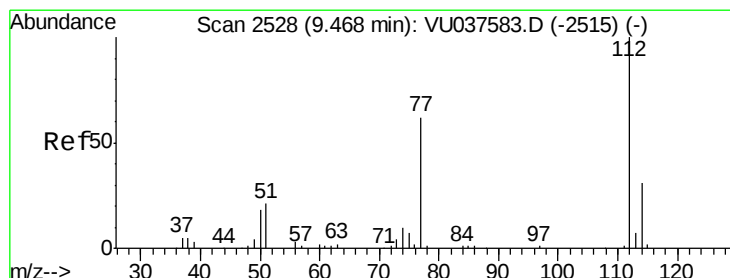
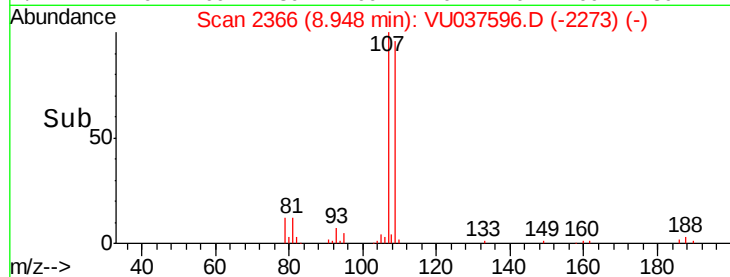
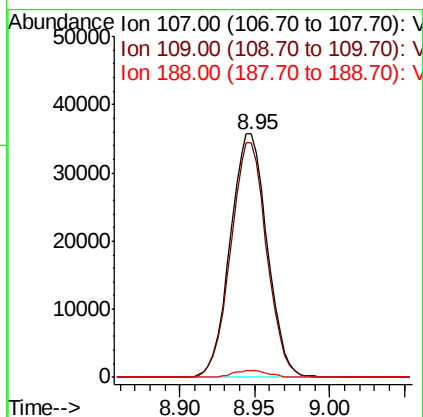
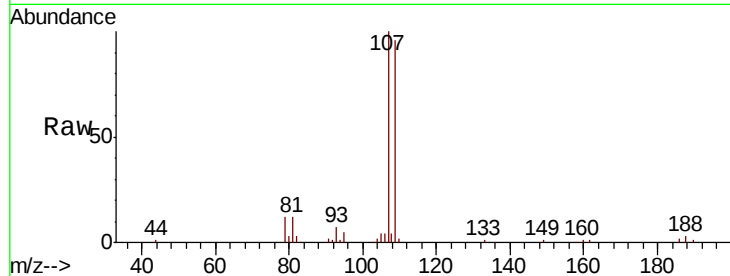




#50
 1,2-Dibromoethane
 Concen: 53.257 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

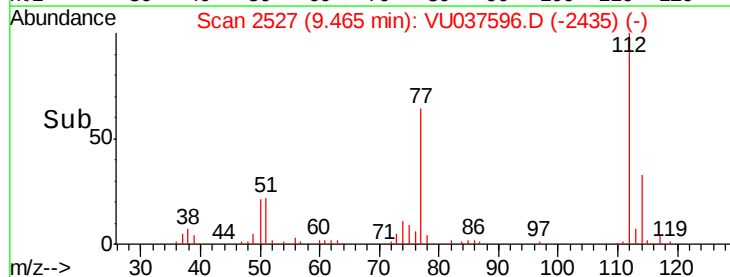
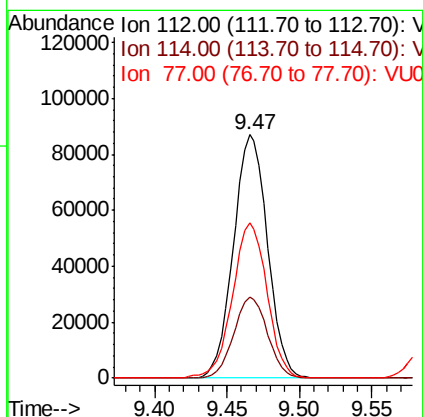
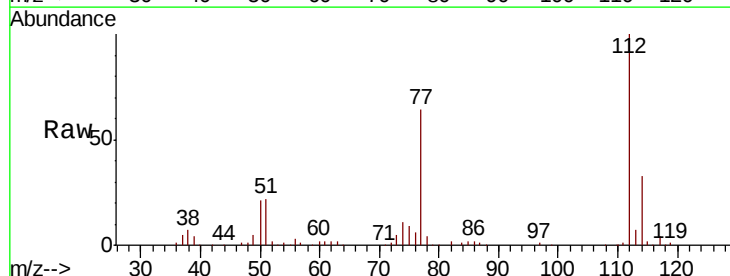
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

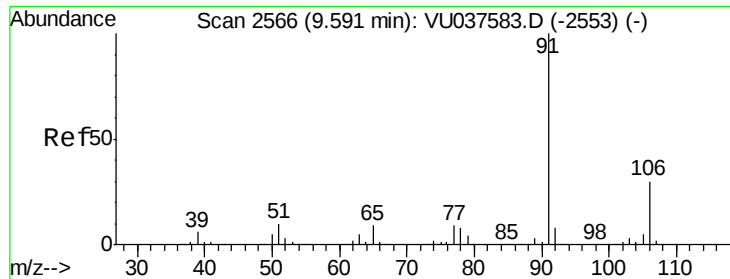
Tot Ion:107 Resp: 61298
 Ion Ratio Lower Upper
 107 100
 109 96.5 64.1 119.1
 188 2.7 2.3 3.5



#51
 Chlorobenzene
 Concen: 52.589 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion:112 Resp: 142010
 Ion Ratio Lower Upper
 112 100
 114 33.1 21.0 39.0
 77 63.9 50.2 75.4





#52

Ethylbenzene

Concen: 52.785 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

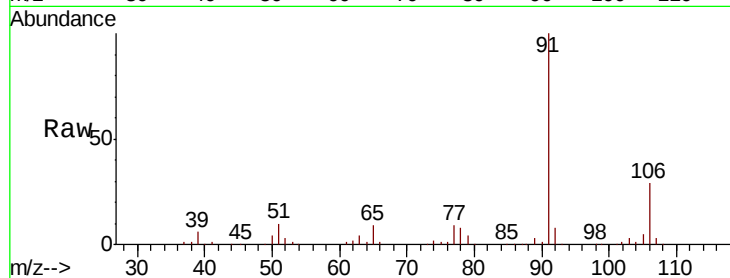
VSTD05060

Tot Ion: 91 Resp: 259878

Ion Ratio Lower Upper

91 100

106 29.4 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037583.D (-2553) (-)

Ion 106.00 (105.70 to 106.70): VU037583.D (-2553) (-)

9.59

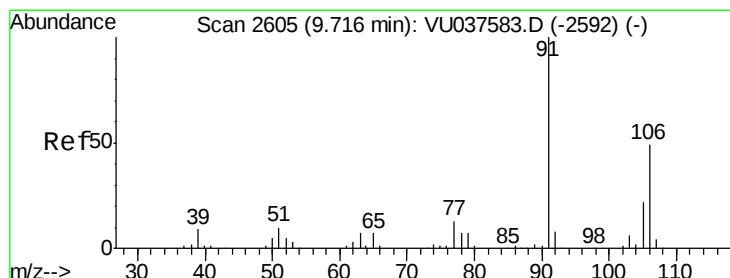
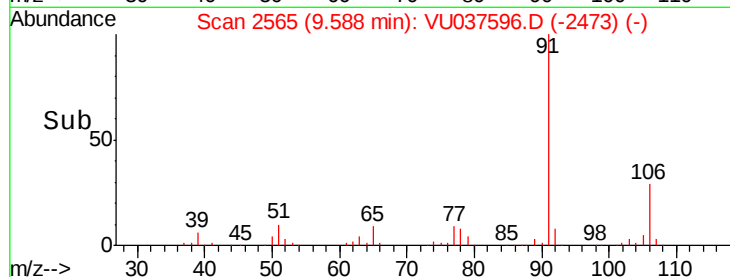
150000

100000

50000

0

Time--> 9.50 9.55 9.60 9.65



#53

m,p-Xylene

Concen: 51.926 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037596.D

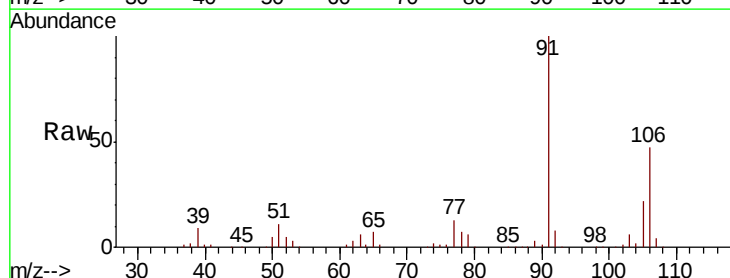
Acq: 06 Apr 2020 18:10

Tgt Ion: 106 Resp: 95358

Ion Ratio Lower Upper

106 100

91 212.3 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037583.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VU037583.D (-2592) (-)

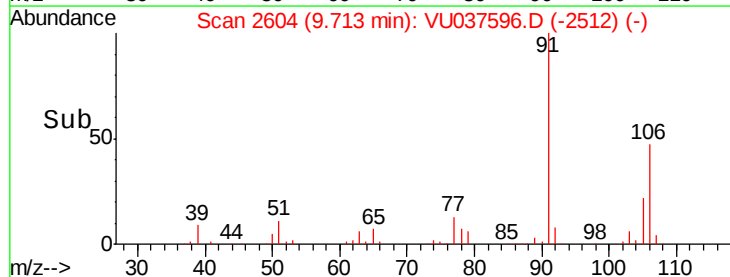
9.71

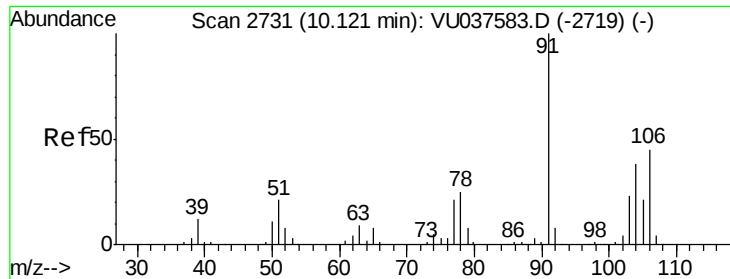
100000

50000

0

Time--> 9.65 9.70 9.75





#54

o-xylene

Concen: 53.688 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

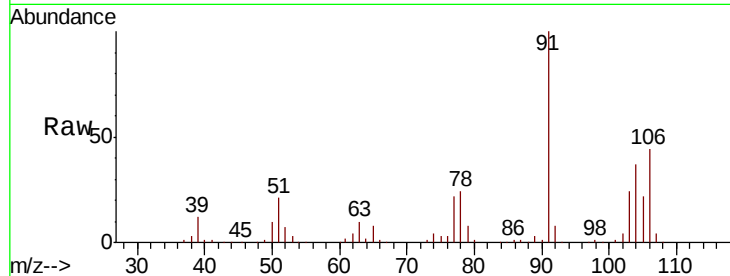
VSTD05060

Tot Ion:106 Resp: 95028

Ion Ratio Lower Upper

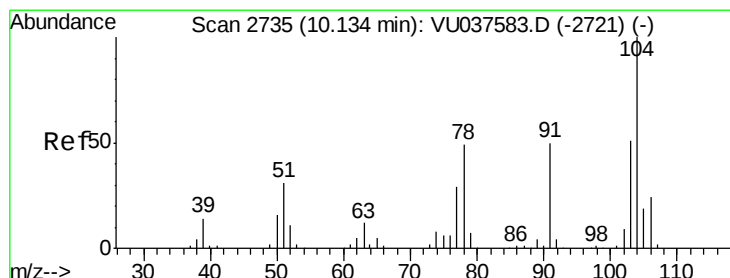
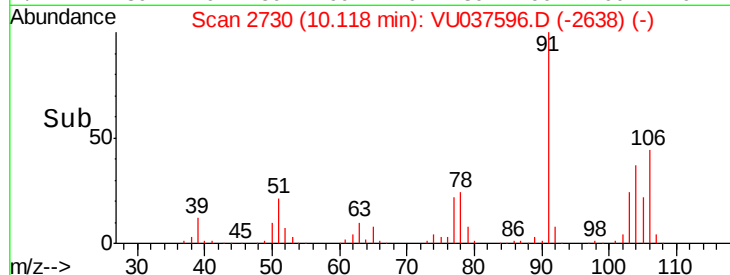
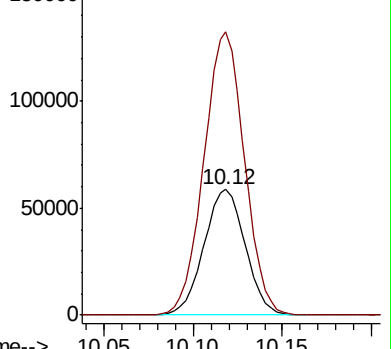
106 100

91 225.6 152.6 283.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.154 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037596.D

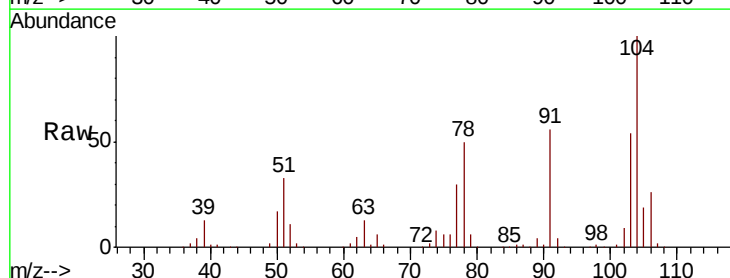
Acq: 06 Apr 2020 18:10

Tgt Ion:104 Resp: 166589

Ion Ratio Lower Upper

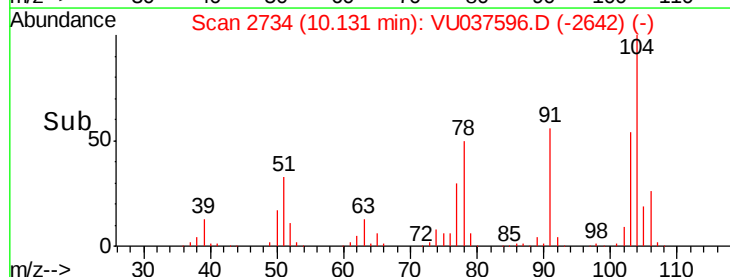
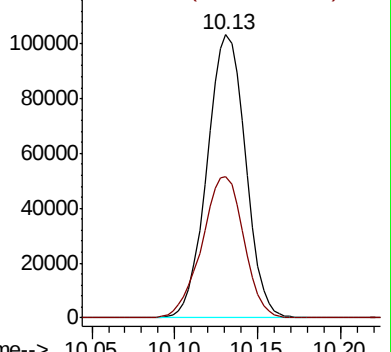
104 100

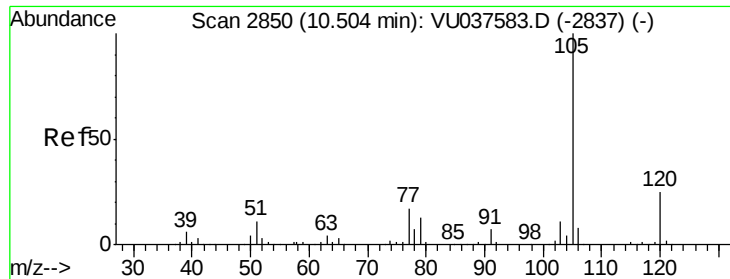
78 50.1 34.9 64.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.489 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

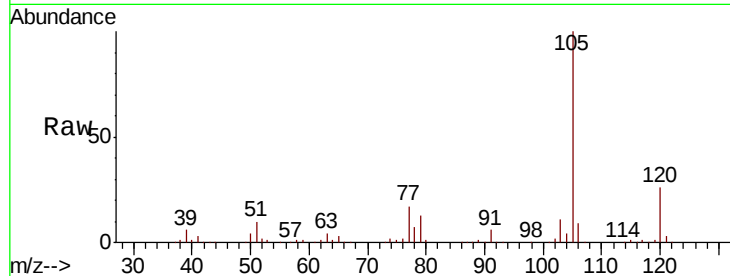
Tot Ion:105 Resp: 256694

Ion Ratio Lower Upper

105 100

120 26.0 20.7 31.1

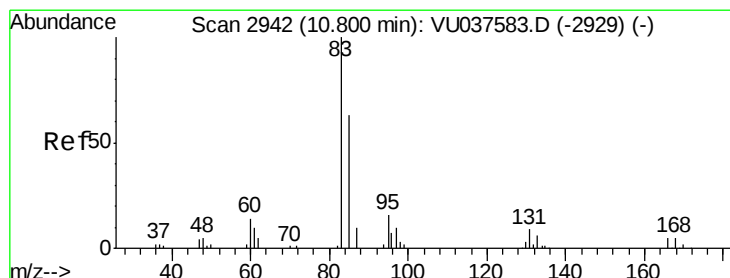
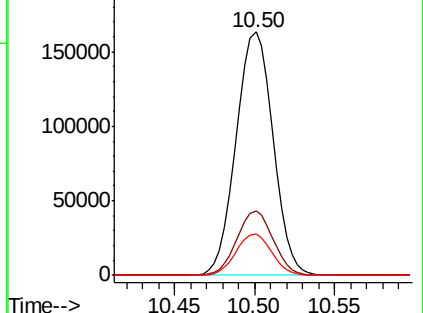
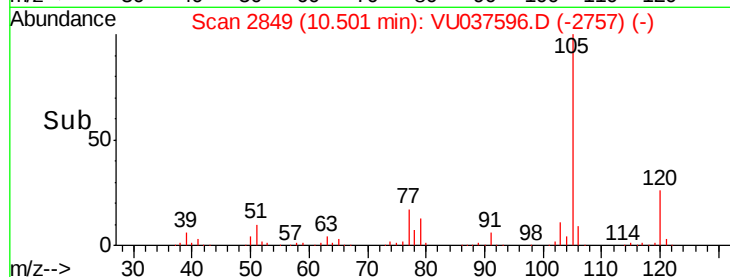
77 16.6 13.4 20.0



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: 53.374 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

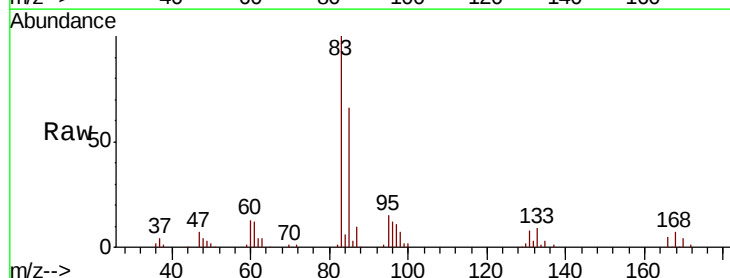
Tgt Ion: 83 Resp: 100700

Ion Ratio Lower Upper

83 100

85 66.2 44.2 82.2

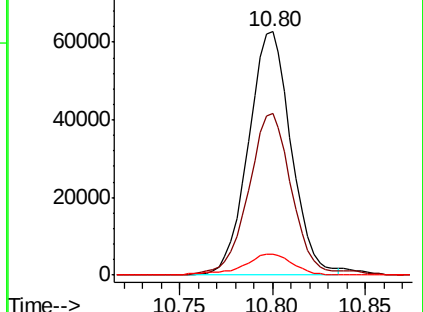
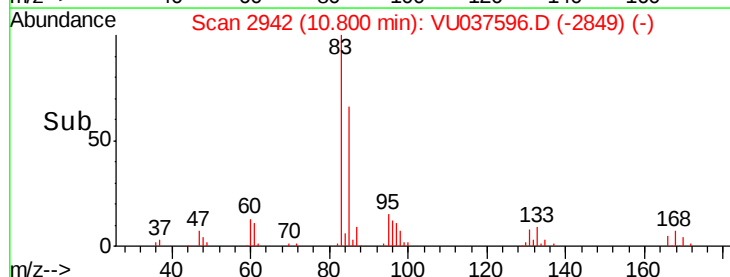
131 8.5 7.2 10.8

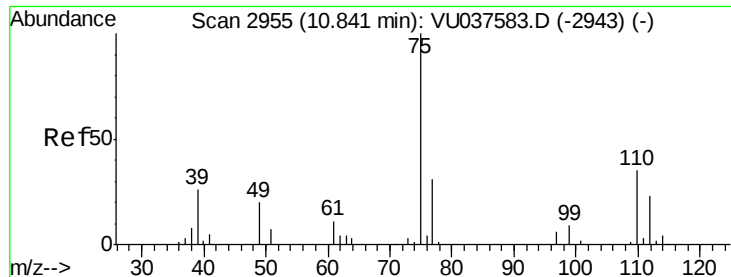


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

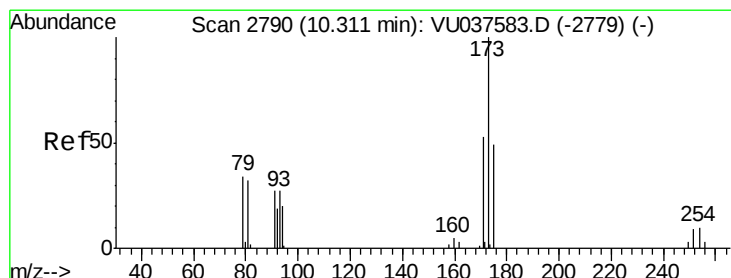
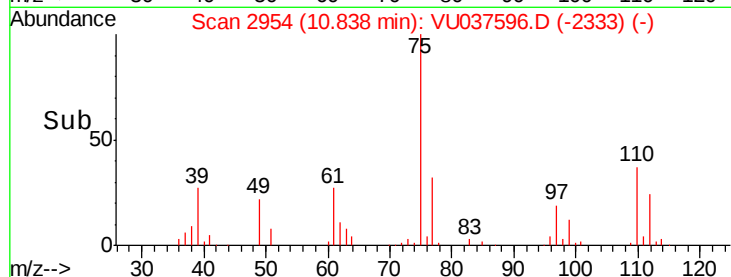
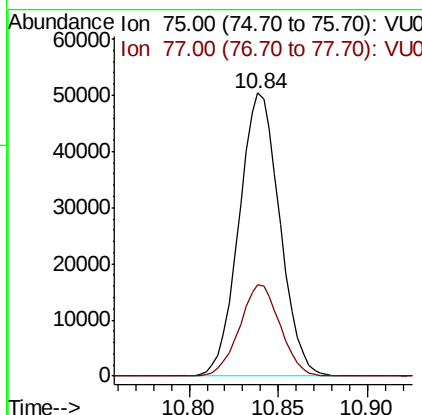
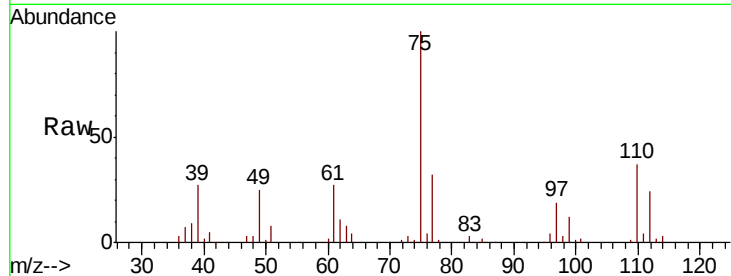




#59
 1,2,3-Trichloropropane
 Concen: 54.611 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

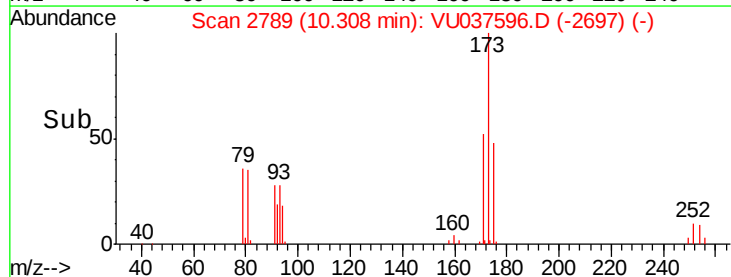
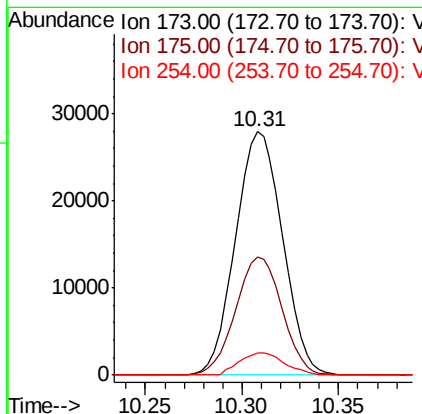
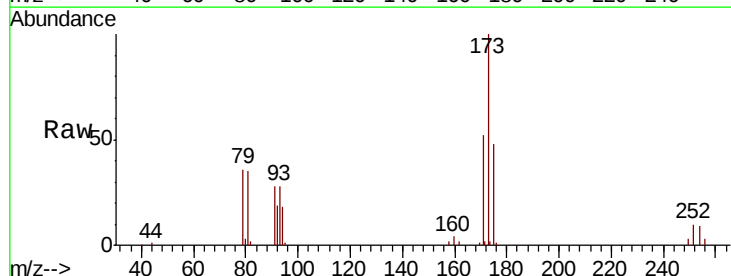
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

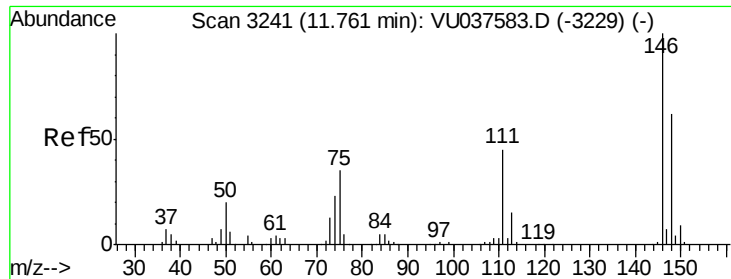
Tot Ion: 75 Resp: 80475
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.5 38.3



#61
 Bromoform
 Concen: 56.721 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion:173 Resp: 47264
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.6 58.0
 254 8.7 7.4 11.2

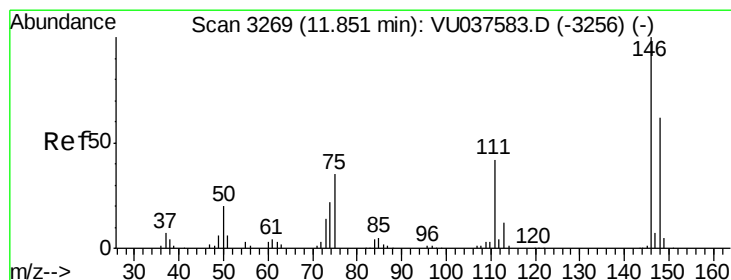
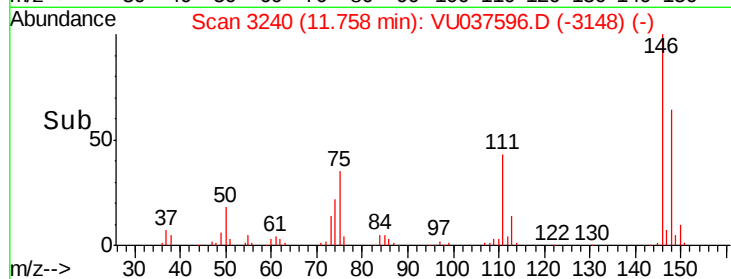
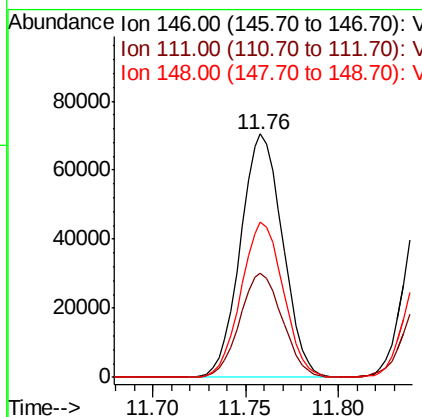
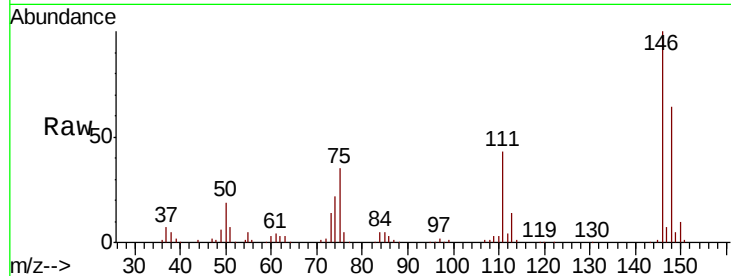




#62
 1,3-Dichlorobenzene
 Concen: 52.874 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

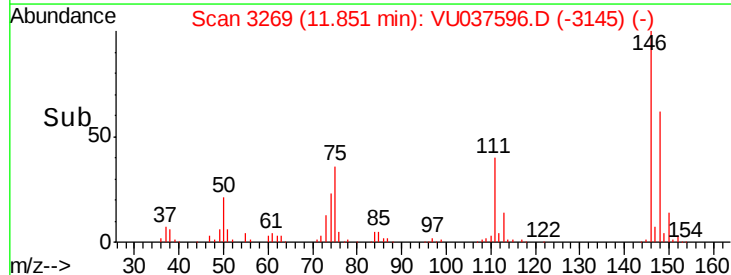
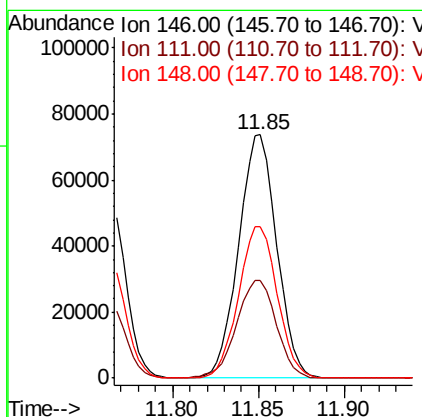
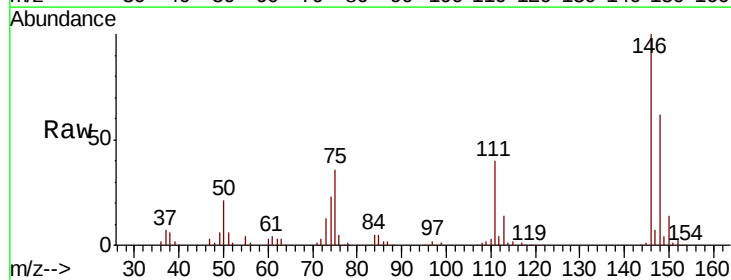
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

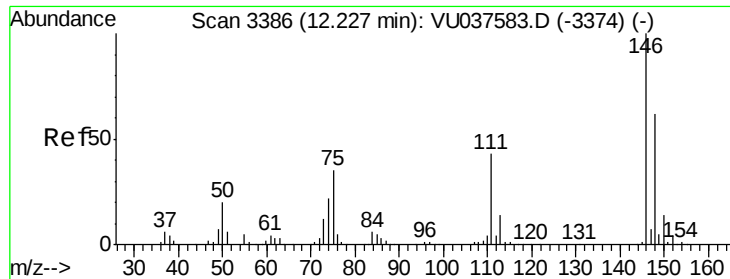
Tot Ion:146 Resp: 111286
 Ion Ratio Lower Upper
 146 100
 111 42.7 31.1 57.7
 148 63.6 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 53.407 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion:146 Resp: 113450
 Ion Ratio Lower Upper
 146 100
 111 40.1 30.1 55.9
 148 62.2 44.7 82.9





#65

1,2-Dichlorobenzene

Concen: 54.308 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

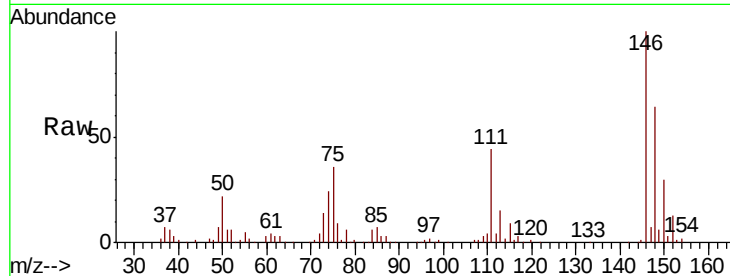
Tot Ion:146 Resp: 113178

Ion Ratio Lower Upper

146 100

111 44.5 35.6 53.4

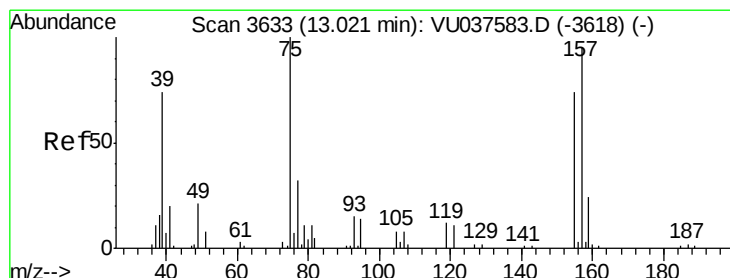
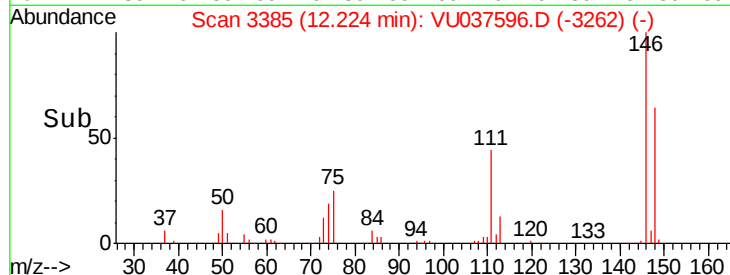
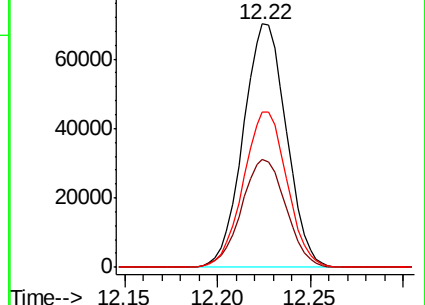
148 63.8 51.0 76.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 55.225 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

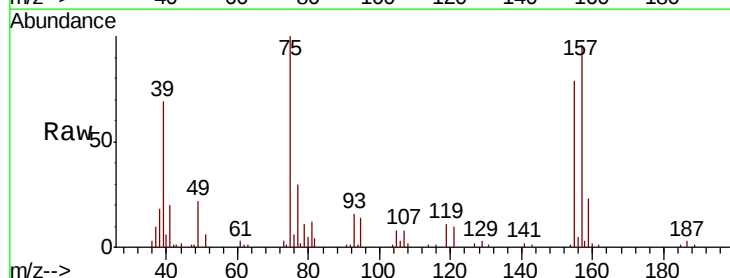
Tgt Ion: 75 Resp: 27606

Ion Ratio Lower Upper

75 100

155 78.6 56.6 85.0

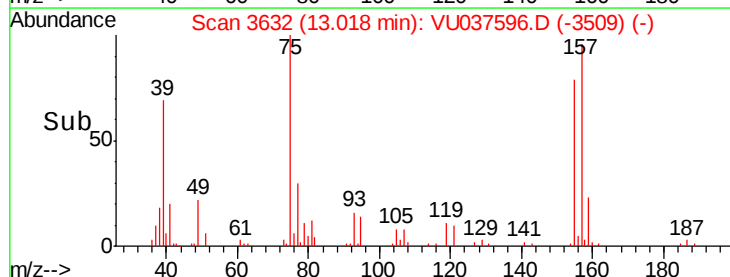
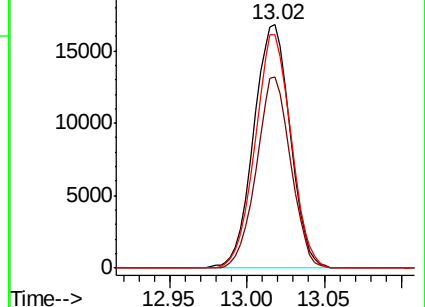
157 95.8 72.4 108.6

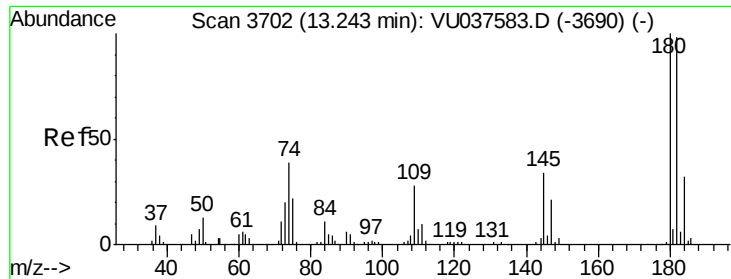


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

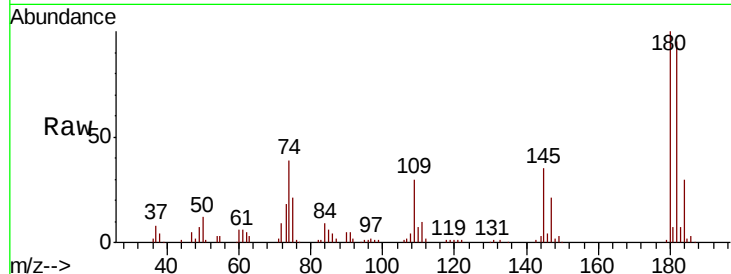




#67
 1,3,5-Trichlorobenzene
 Concen: 53.475 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	74.9	112.3
184	30.2	23.6	35.4
145	33.6	25.7	38.5



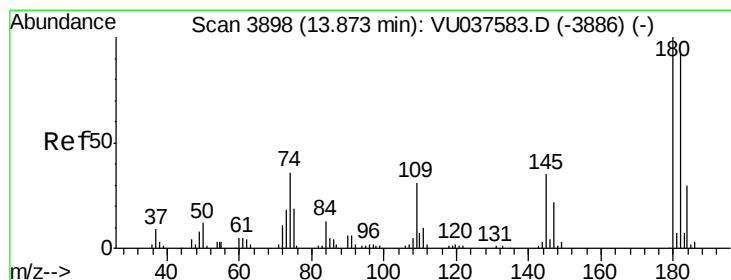
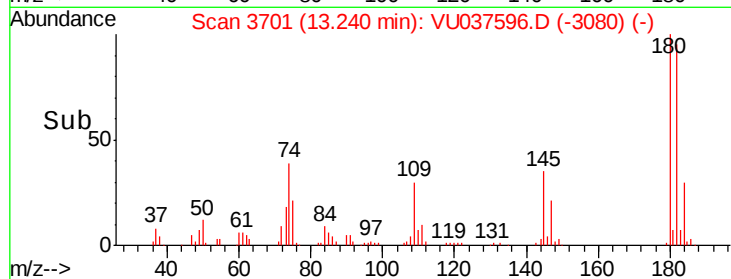
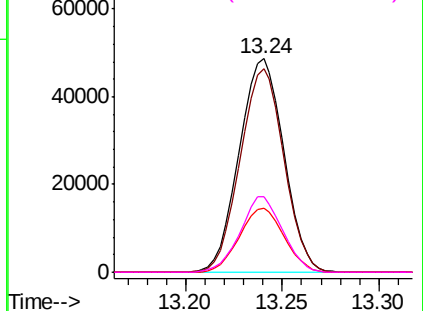
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

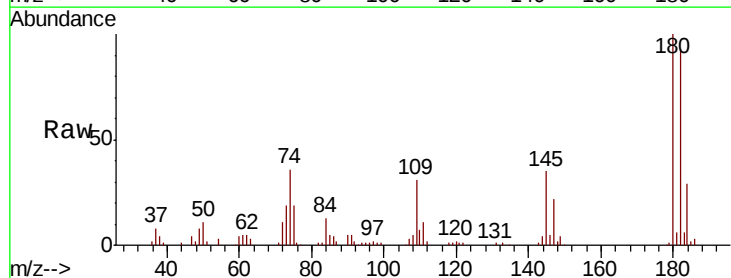
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 54.129 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU037596.D
 Acq: 06 Apr 2020 18:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	74.4	111.6
145	35.2	26.9	40.3

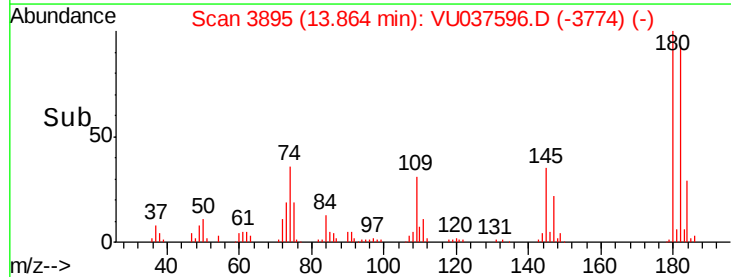
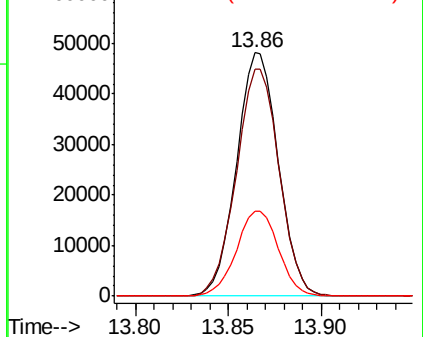


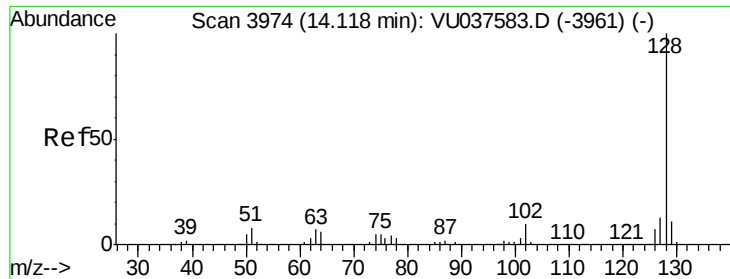
Abundance

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: 50.757 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

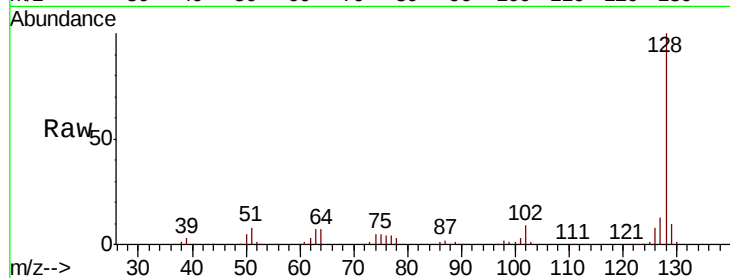
Tot Ion:128 Resp: 299478

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

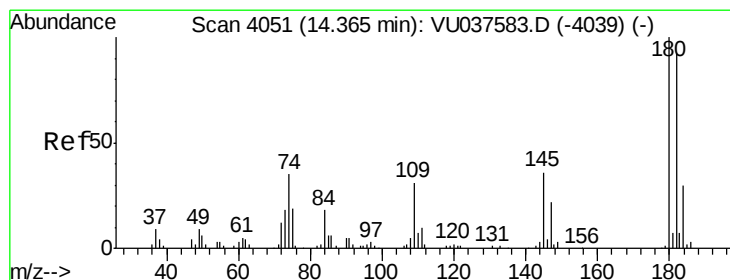
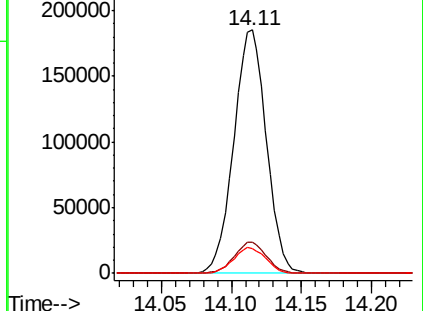
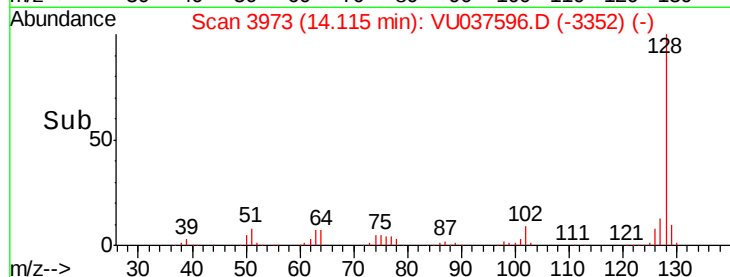
129 10.6 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.935 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VU037596.D

Acq: 06 Apr 2020 18:10

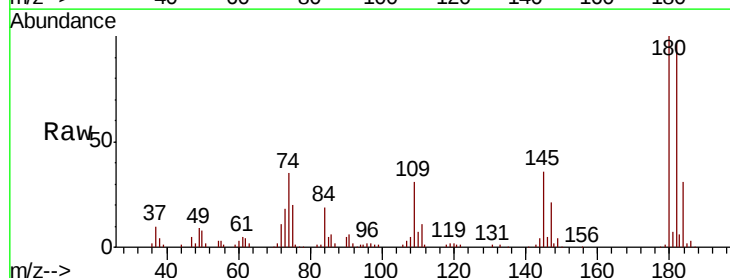
Tgt Ion:180 Resp: 75882

Ion Ratio Lower Upper

180 100

182 96.6 76.0 114.0

145 36.3 29.0 43.6



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

