

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040620\
 Data File : VU037583.D
 Acq On : 06 Apr 2020 10:27
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Quant Time: Apr 07 00:41:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Apr 06 16:20:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	174829	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	162850	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	81667	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	53845	37.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.84%
7) Chloroethane-d5	1.93	69	44475	38.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.98%
11) 1,1-Dichloroethene-d2	2.59	63	97688	40.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.86%
21) 2-Butanone-d5	4.66	46	90099	84.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	84.43%
24) Chloroform-d	5.11	84	99973	41.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.58%
26) 1,2-Dichloroethane-d4	5.74	65	66550	41.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.80%
32) Benzene-d6	5.76	84	200211	42.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.86%
36) 1,2-Dichloropropane-d6	6.72	67	67864	42.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.46%
41) Toluene-d8	7.93	98	188926	42.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.92%
43) trans-1,3-Dichloropropene-	8.20	79	36366	42.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.34%
47) 2-Hexanone-d5	8.66	63	71190	84.59	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.59%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	98878	43.55	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.10%
64) 1,2-Dichlorobenzene-d4	12.21	152	67872	40.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.46%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	47282	41.833	ug/L 100
3) Chloromethane	1.54	50	46323	38.638	ug/L 99
5) Vinyl chloride	1.62	62	49464	41.549	ug/L 99
6) Bromomethane	1.87	94	27699	47.175	ug/L 99
8) Chloroethane	1.95	64	28017	39.902	ug/L 96
9) Trichlorofluoromethane	2.16	101	70845	41.944	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	42967	44.600	ug/L 99
12) 1,1-Dichloroethene	2.60	96	38201	40.848	ug/L 83
13) Acetone	2.65	43	65080	105.501	ug/L 100
14) Carbon disulfide	2.82	76	108843	40.292	ug/L 100
15) Methyl Acetate	2.98	43	56495	40.415	ug/L 97
16) Methylene chloride	3.08	84	47754	42.098	ug/L 93
17) trans-1,2-Dichloroethene	3.39	96	40857	40.572	ug/L 98
18) Methyl tert-butyl Ether	3.40	73	151364	42.879	ug/L 99
19) 1,1-Dichloroethane	3.91	63	82972	42.053	ug/L 96
20) cis-1,2-Dichloroethene	4.71	96	48561	41.875	ug/L 98
22) 2-Butanone	4.75	43	88755	88.152	ug/L 100

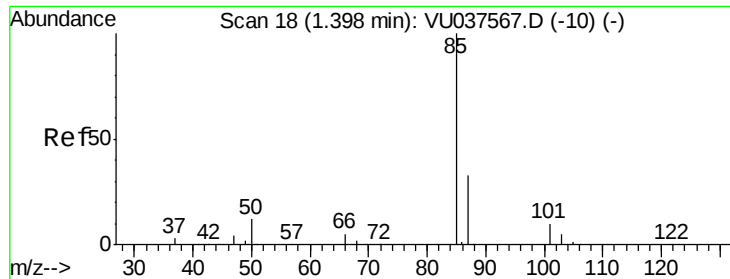
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040620\
 Data File : VU037583.D
 Acq On : 06 Apr 2020 10:27
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Quant Time: Apr 07 00:41:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Apr 06 16:20:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	23957	43.041	ug/L	93
25) Chloroform	5.13	83	86764	42.177	ug/L	94
27) 1,2-Dichloroethane	5.83	62	68808	43.341	ug/L	99
29) Cyclohexane	5.42	56	73231	42.909	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	72706	42.118	ug/L	98
31) Carbon tetrachloride	5.56	117	60076	42.284	ug/L	98
33) Benzene	5.81	78	181058	42.432	ug/L	100
34) Trichloroethene	6.57	95	46637	41.799	ug/L	97
35) Methylcyclohexane	6.79	83	72464	42.035	ug/L	97
37) 1,2-Dichloropropane	6.82	63	50972	41.925	ug/L #	96
38) Bromodichloromethane	7.14	83	67952	42.973	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	81226	42.775	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	162412	82.323	ug/L	99
42) Toluene	8.00	91	193562	41.919	ug/L	97
44) trans-1,3-Dichloropropene	8.23	75	81349	43.502	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	49542	44.632	ug/L	100
46) Tetrachloroethene	8.58	164	31809	42.460	ug/L	95
48) 2-Hexanone	8.71	43	130311	84.936	ug/L	99
49) Dibromochloromethane	8.84	129	52347	42.280	ug/L	97
50) 1,2-Dibromoethane	8.95	107	52367	42.897	ug/L	98
51) Chlorobenzene	9.47	112	123374	43.076	ug/L	99
52) Ethylbenzene	9.59	91	224134	42.922	ug/L	99
53) m,p-Xylene	9.72	106	83768	43.007	ug/L	96
54) o-xylene	10.12	106	81565	43.448	ug/L	98
55) Styrene	10.13	104	142109	42.751	ug/L	99
56) Isopropylbenzene	10.50	105	217544	42.739	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	84079	42.017	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	67060	42.907	ug/L	100
61) Bromoform	10.31	173	40276	43.141	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	96751	41.029	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	98335	41.318	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	96594	41.370	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	22746	40.614	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	68849	42.064	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	66136	42.386	ug/L	98
69) Naphthalene	14.12	128	253245	38.309	ug/L	100
70) 1,2,3-Trichlorobenzene	14.37	180	66518	42.199	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 41.833 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

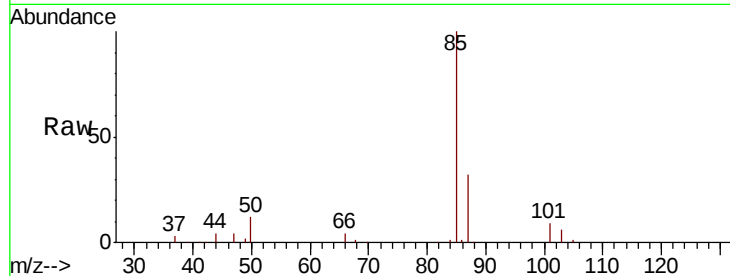
VSTD05059

Tot Ion: 85 Resp: 47282

Ion Ratio Lower Upper

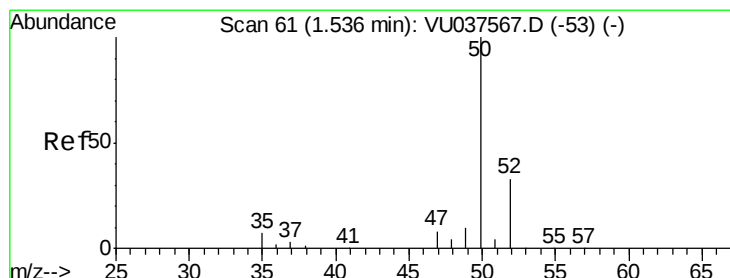
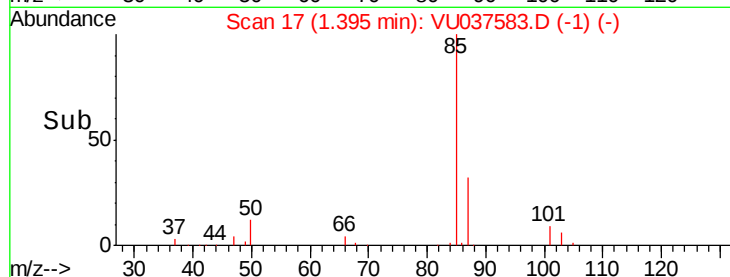
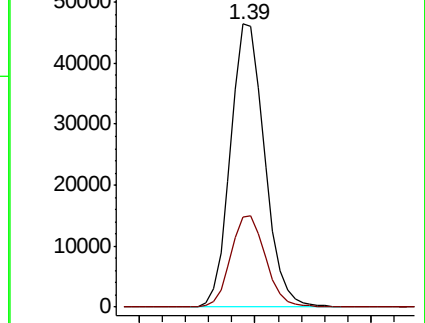
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037567.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU037567.D (-10) (-)



#3

Chloromethane

Concen: 38.638 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037583.D

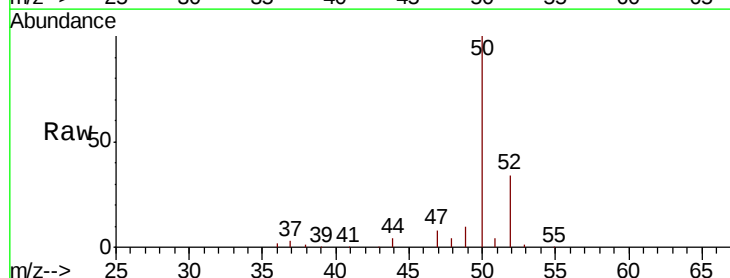
Acq: 06 Apr 2020 10:27

Tgt Ion: 50 Resp: 46323

Ion Ratio Lower Upper

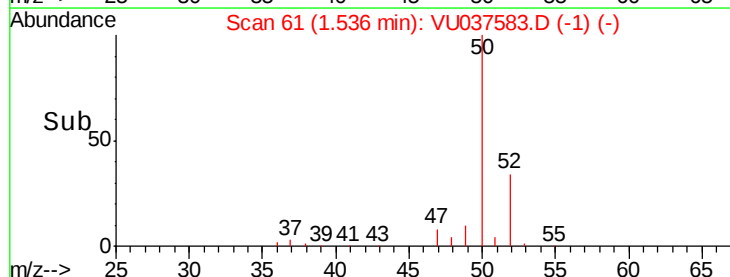
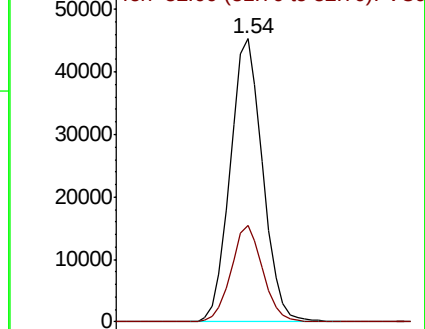
50 100

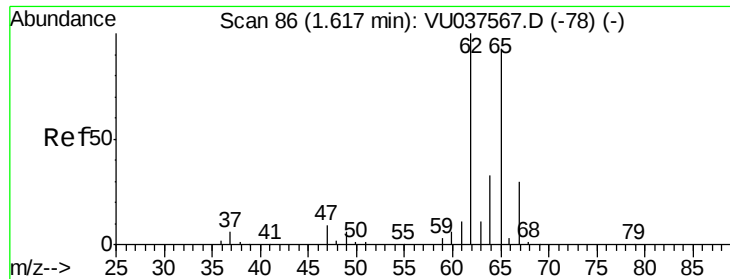
52 33.9 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU037567.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU037567.D (-53) (-)





#5

Vinyl chloride

Concen: 41.549 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

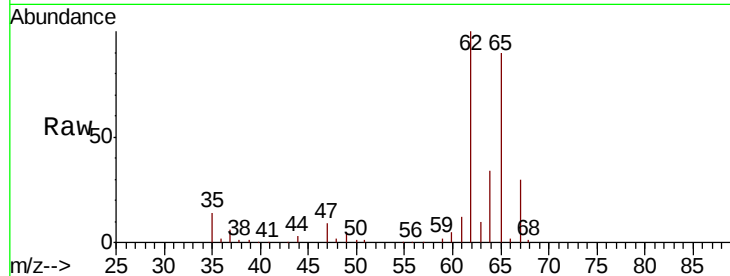
VSTD05059

Tot Ion: 62 Resp: 49464

Ion Ratio Lower Upper

62 100

64 33.8 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU037567.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037567.D (-78) (-)

1.62

50000

40000

30000

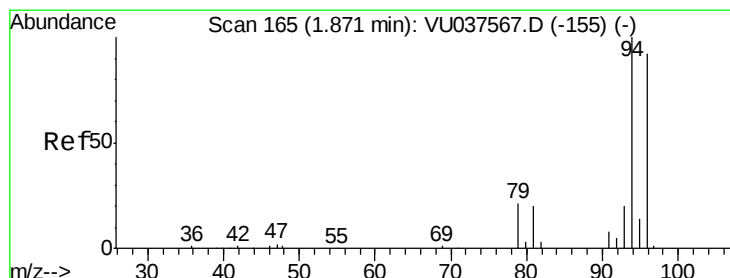
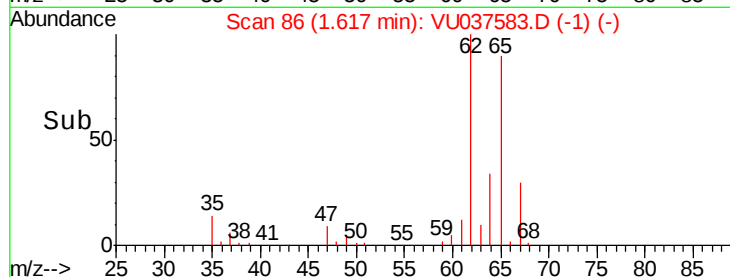
20000

10000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 47.175 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037583.D

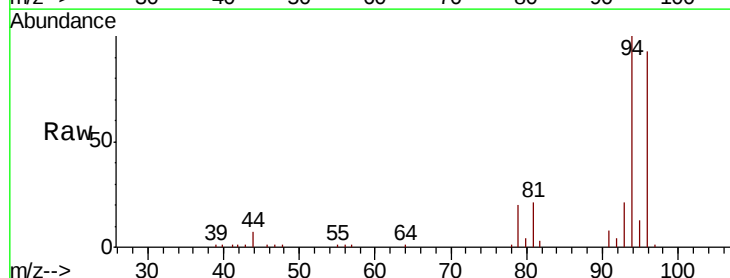
Acq: 06 Apr 2020 10:27

Tgt Ion: 94 Resp: 27699

Ion Ratio Lower Upper

94 100

96 93.2 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037567.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU037567.D (-155) (-)

1.87

20000

15000

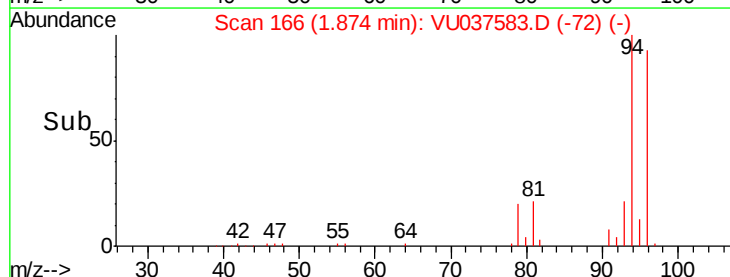
10000

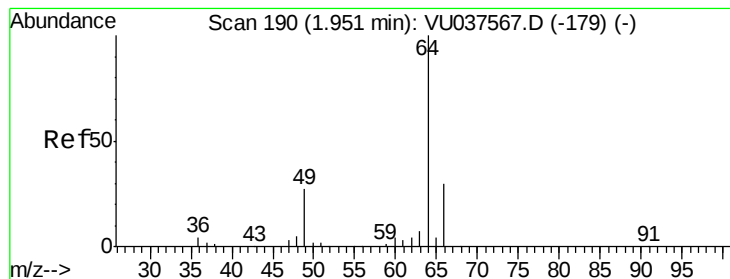
5000

0

1.85 1.90

Time-->





#8

Chloroethane

Concen: 39.902 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

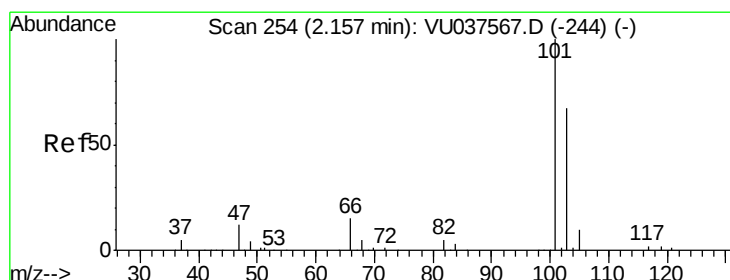
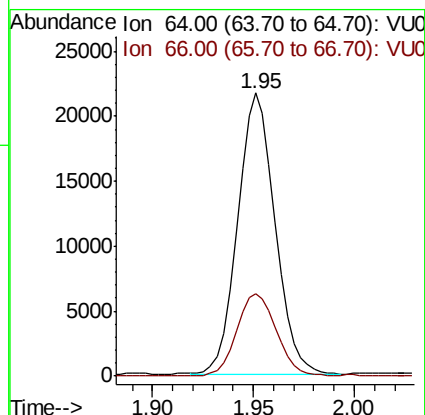
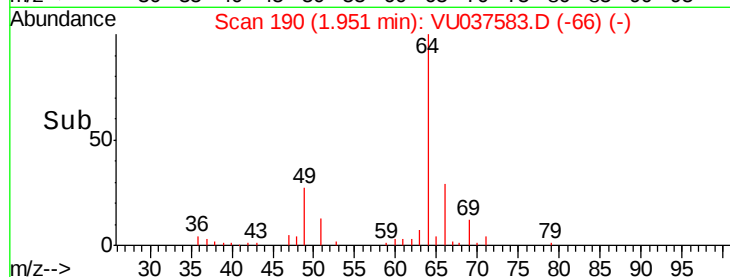
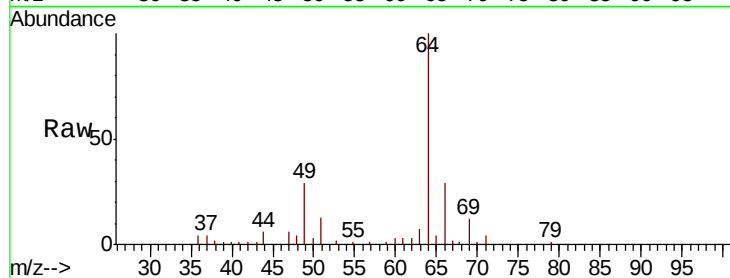
VSTD05059

Tot Ion: 64 Resp: 28017

Ion Ratio Lower Upper

64 100

66 29.3 22.3 41.3



#9

Trichlorofluoromethane

Concen: 41.944 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU037583.D

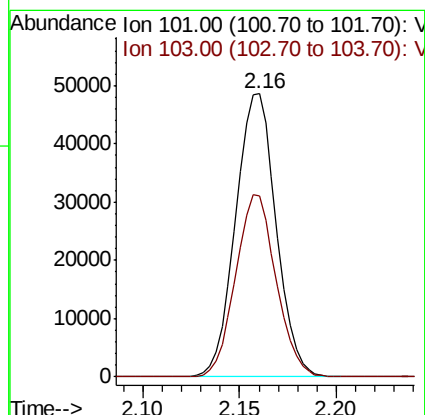
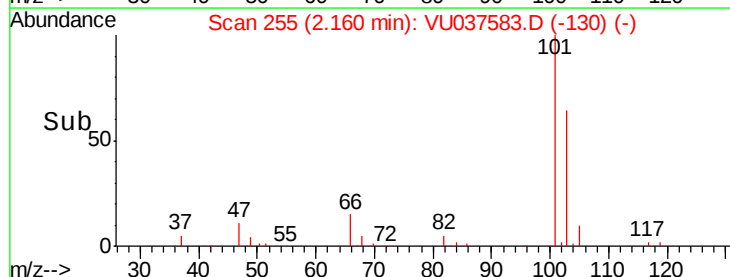
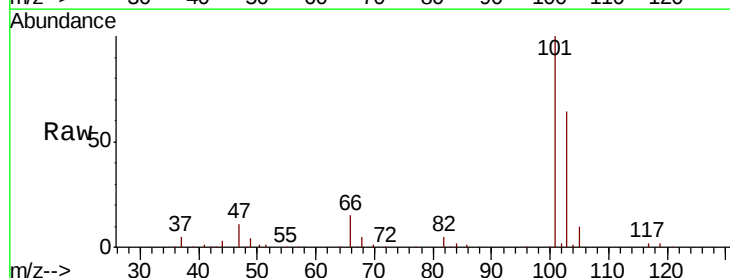
Acq: 06 Apr 2020 10:27

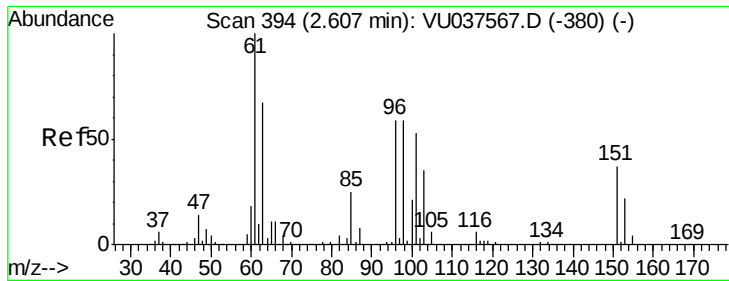
Tgt Ion:101 Resp: 70845

Ion Ratio Lower Upper

101 100

103 64.2 51.2 76.8





#10

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

Concen: 44.600 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

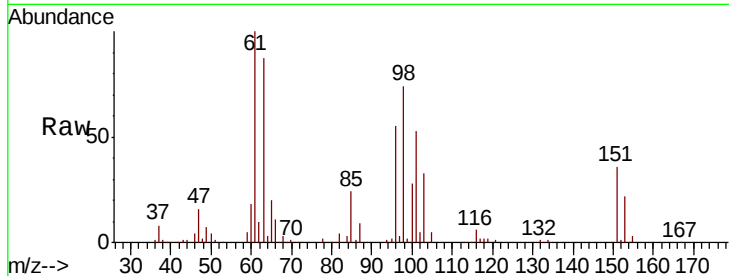
Tot Ion:101 Resp: 42967

Ion Ratio Lower Upper

101 100

85 44.6 35.4 53.2

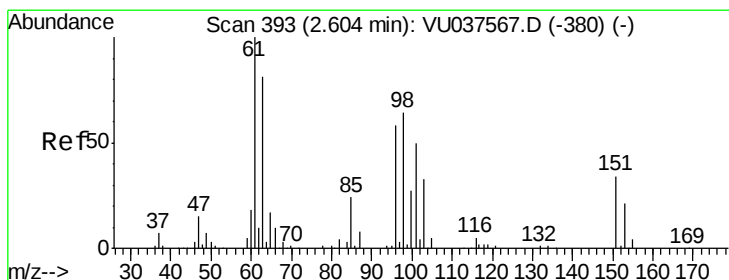
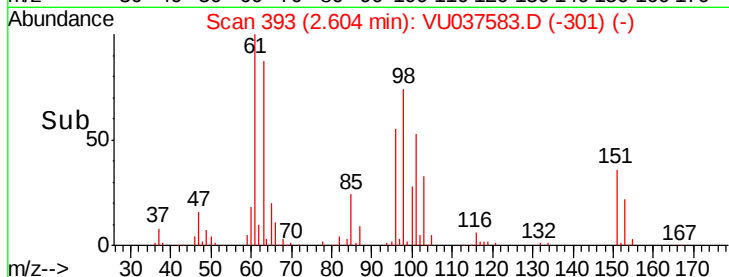
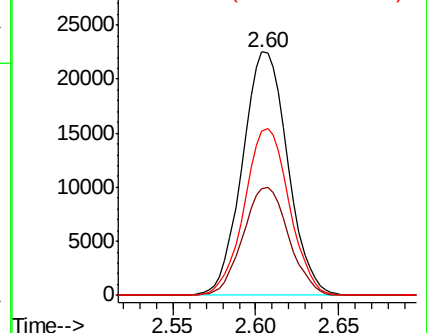
151 67.7 55.3 82.9



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: 40.848 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

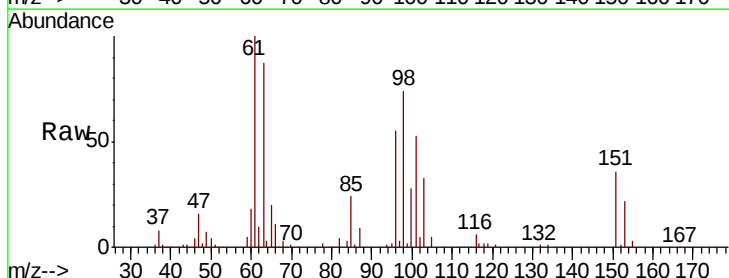
Tgt Ion: 96 Resp: 38201

Ion Ratio Lower Upper

96 100

61 181.6 117.2 217.8

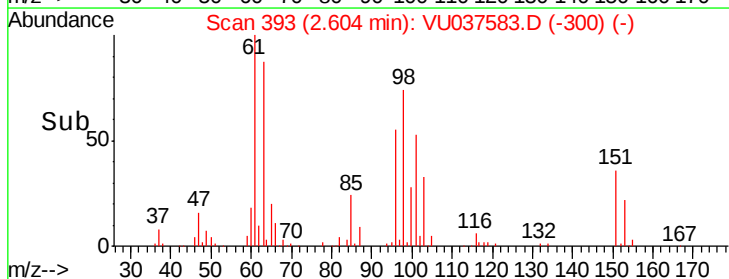
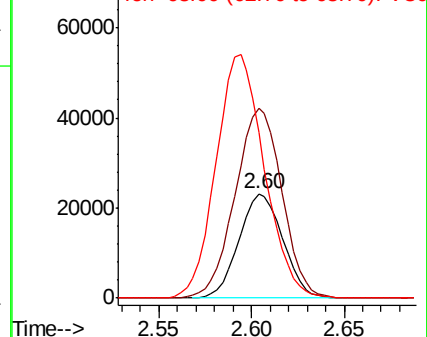
63 158.5 90.9 168.9

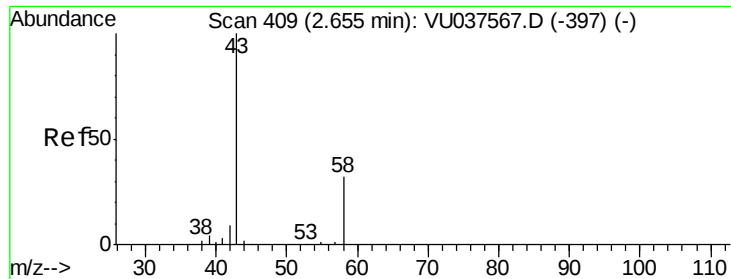


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 105.501 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

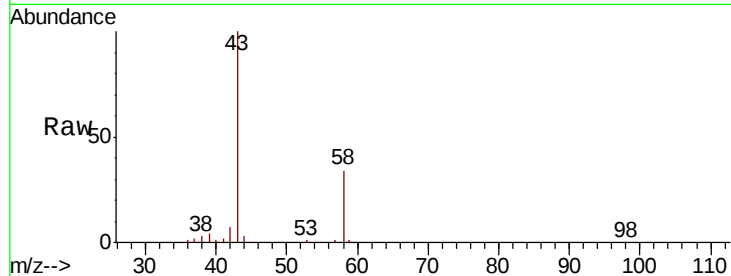
VSTD05059

Tot Ion: 43 Resp: 65080

Ion Ratio Lower Upper

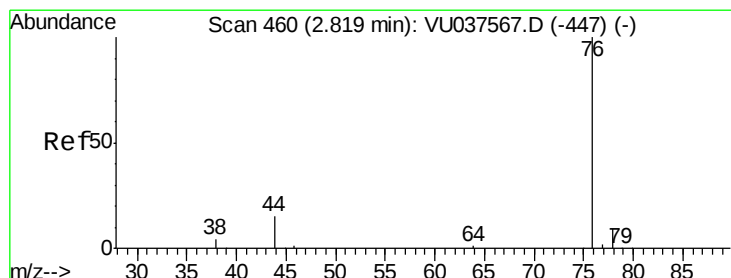
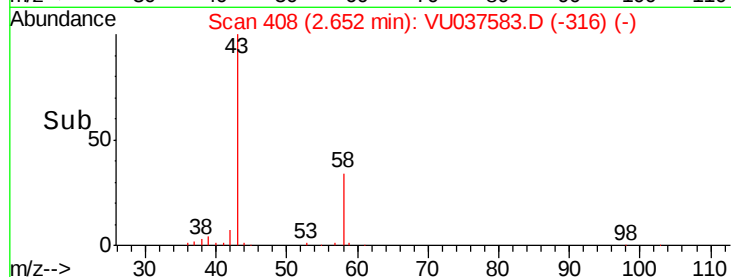
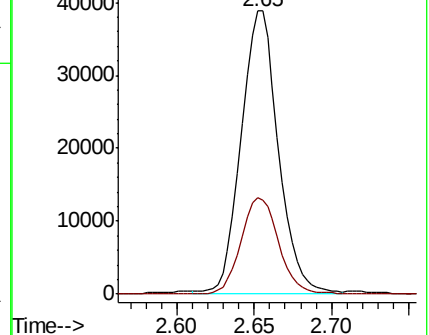
43 100

58 34.5 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VU037567.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037567.D (-397) (-)



#14

Carbon disulfide

Concen: 40.292 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037583.D

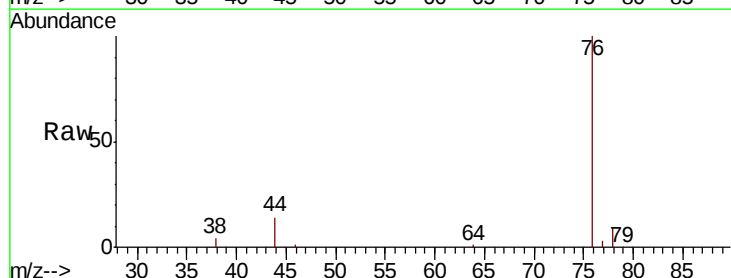
Acq: 06 Apr 2020 10:27

Tgt Ion: 76 Resp: 108843

Ion Ratio Lower Upper

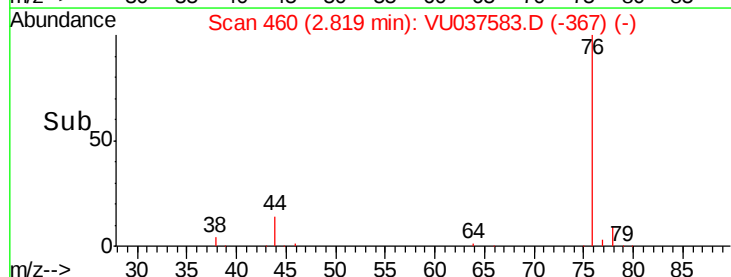
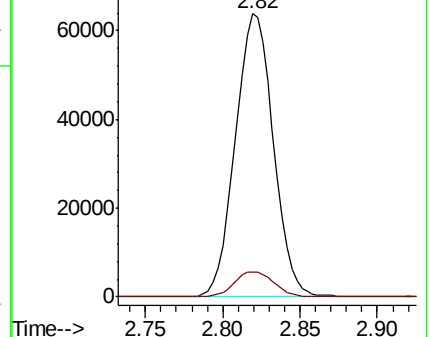
76 100

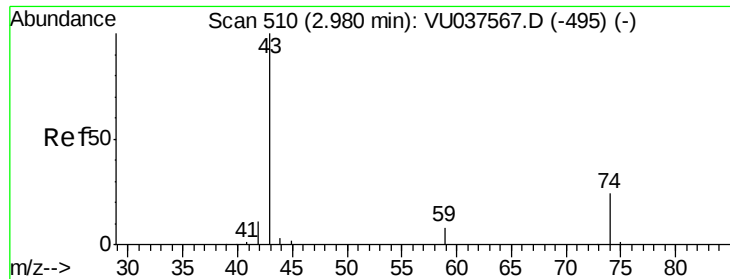
78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU037567.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU037567.D (-447) (-)

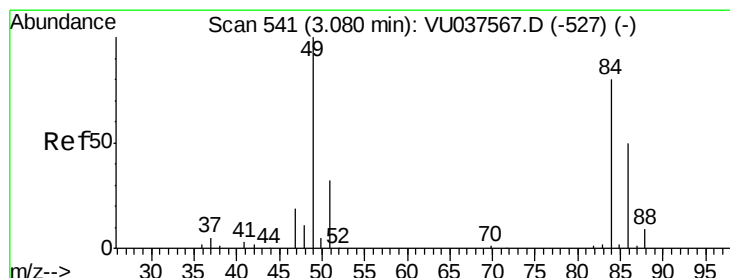
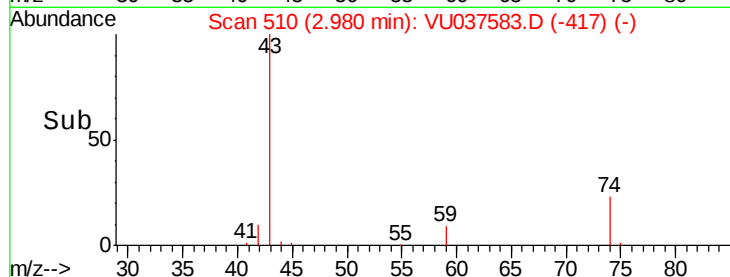
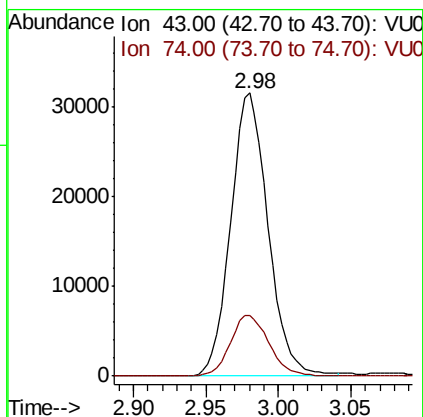
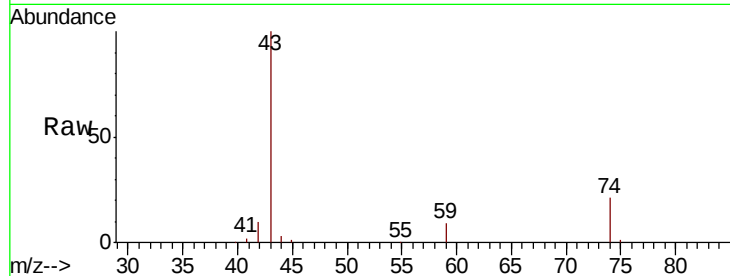




#15
Methvl Acetate
Concen: 40.415 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

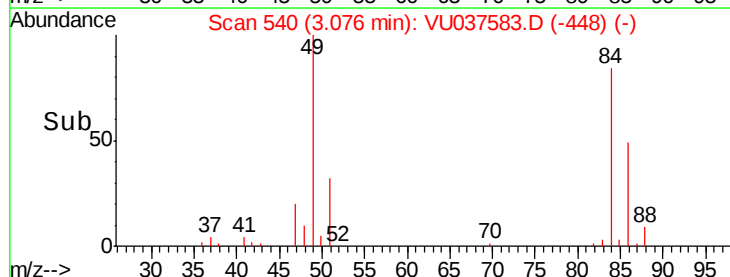
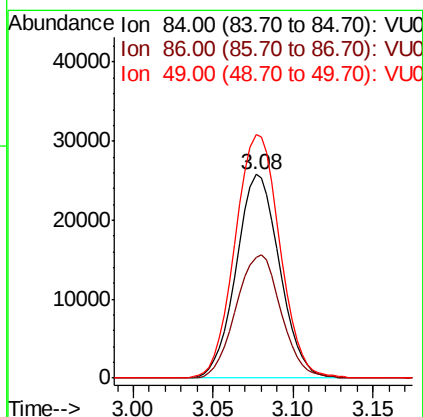
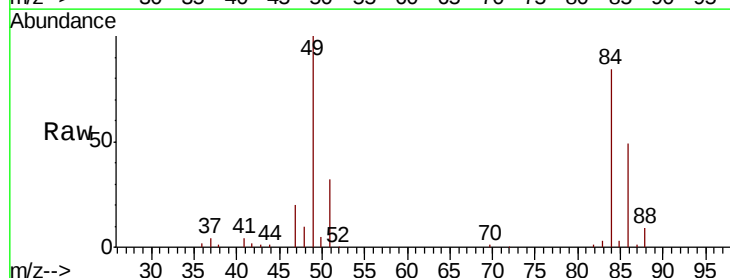
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

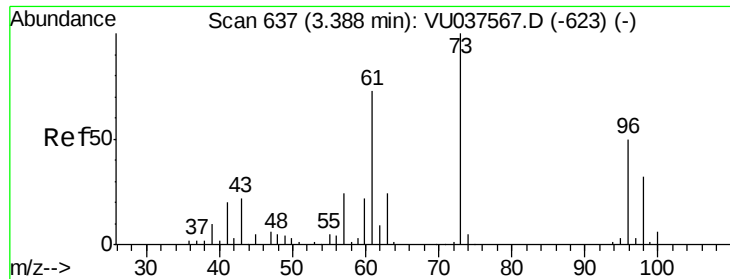
Tot Ion: 43 Resp: 56495
Ion Ratio Lower Upper
43 100
74 22.0 18.8 28.2



#16
Methylene chloride
Concen: 42.098 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Tgt Ion: 84 Resp: 47754
Ion Ratio Lower Upper
84 100
86 59.0 44.8 83.2
49 119.5 89.7 166.5

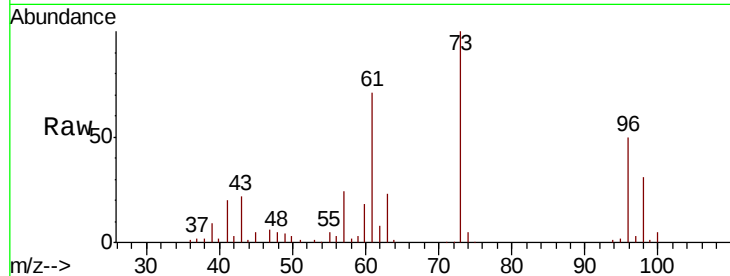




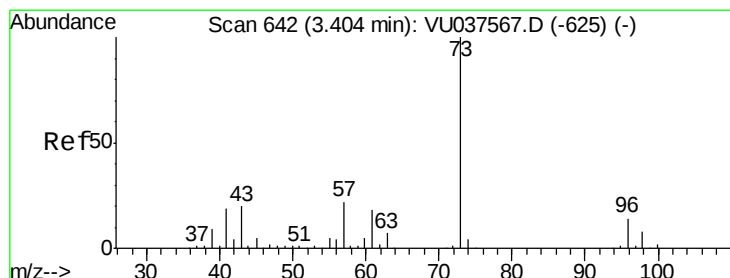
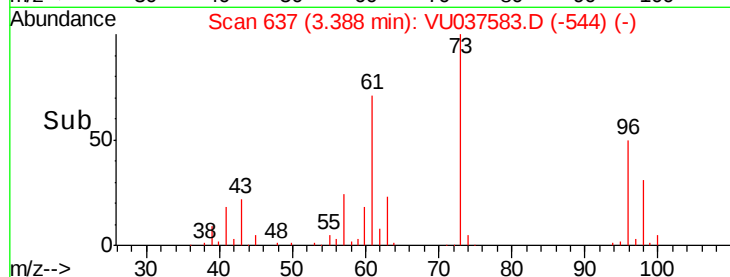
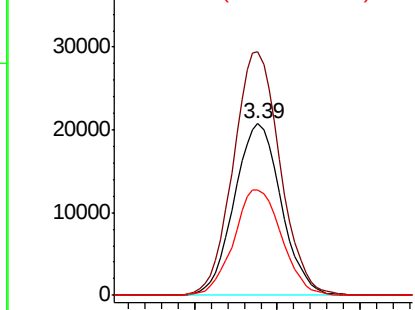
#17
trans-1,2-Dichloroethene
Concen: 40.572 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tot Ion: 96 Resp: 40857
Ion Ratio Lower Upper
96 100
61 141.8 97.3 180.7
98 61.5 42.7 79.3

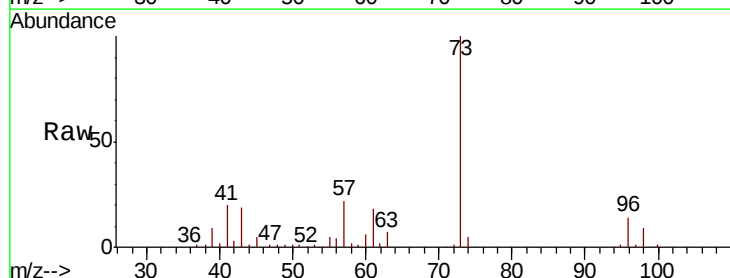


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

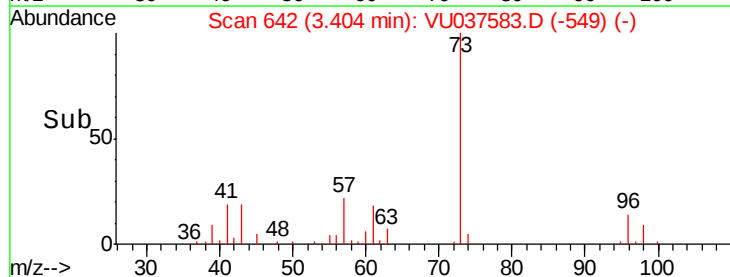
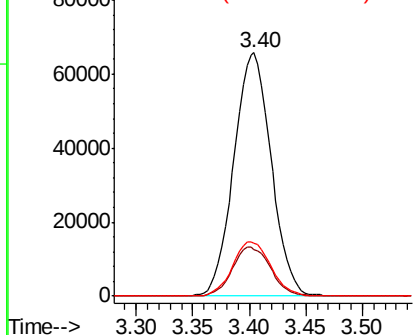


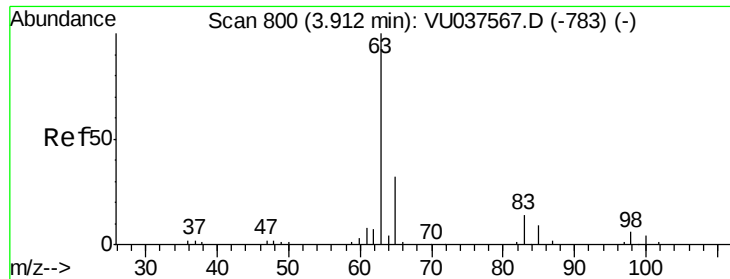
#18
Methyl tert-butyl Ether
Concen: 42.879 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Tgt Ion: 73 Resp: 151364
Ion Ratio Lower Upper
73 100
43 20.7 16.4 24.6
57 22.8 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

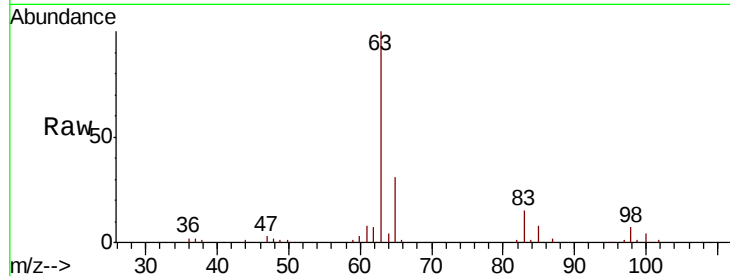




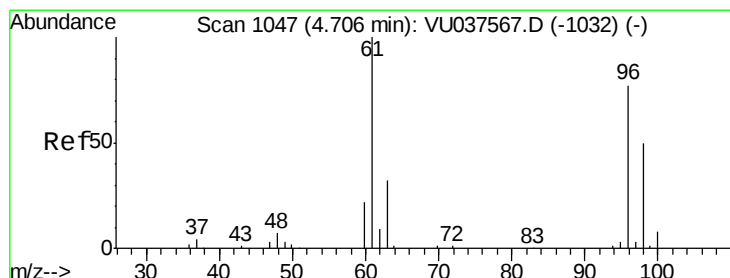
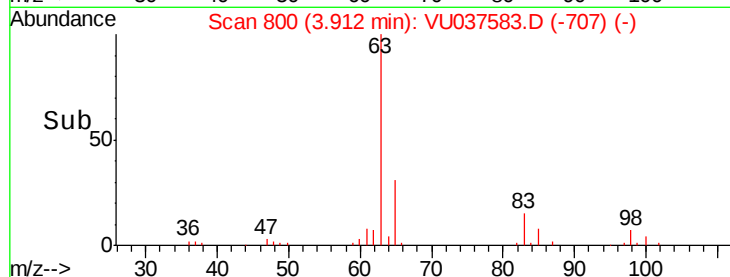
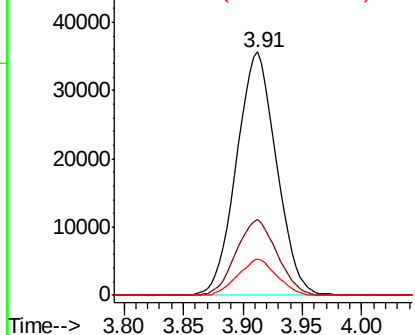
#19
 1,1-Dichloroethane
 Concen: 42.053 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tot Ion: 63 Resp: 82972
 Ion Ratio Lower Upper
 63 100
 65 30.9 23.2 43.2
 83 14.7 9.6 17.8

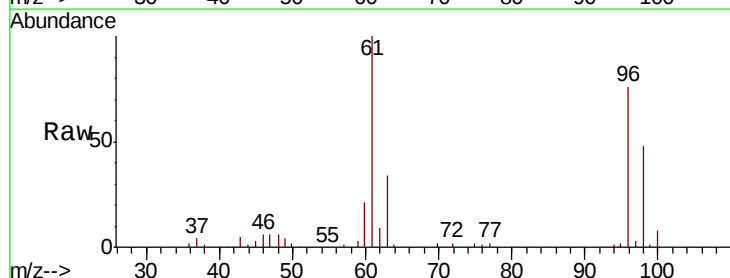


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

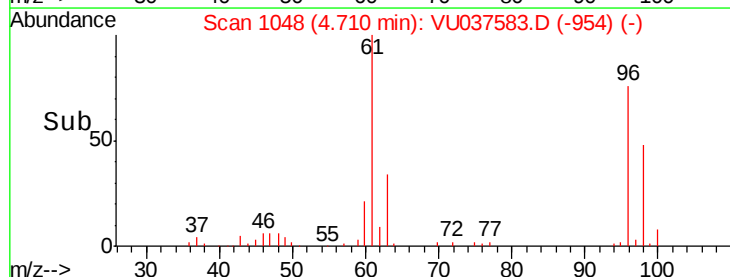
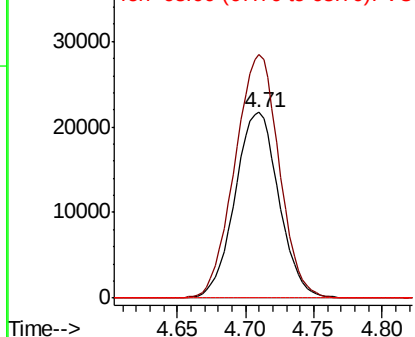


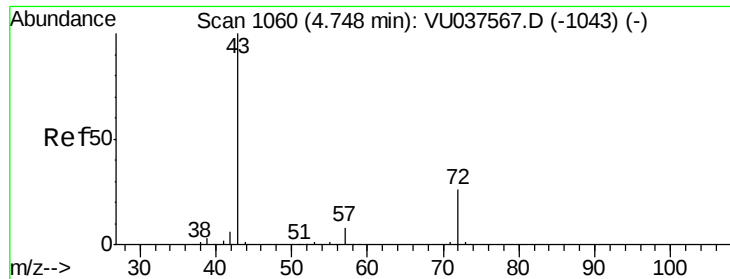
#20
 cis-1,2-Dichloroethene
 Concen: 41.875 ug/L
 RT: 4.71 min Scan# 1048
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion: 96 Resp: 48561
 Ion Ratio Lower Upper
 96 100
 61 131.2 90.2 167.6
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 88.152 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

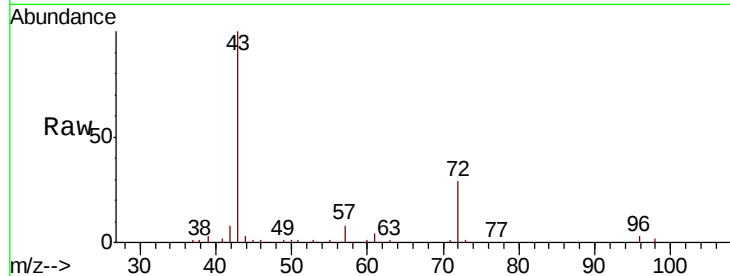
VSTD05059

Tot Ion: 43 Resp: 88755

Ion Ratio Lower Upper

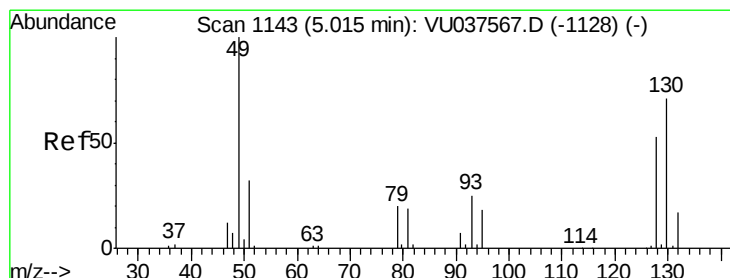
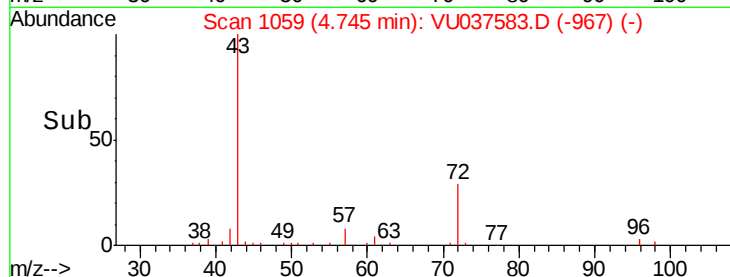
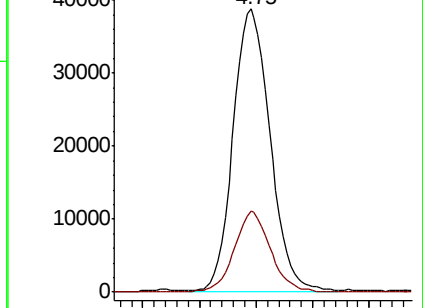
43 100

72 27.7 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU037567.D (-1043) (-)

Ion 72.00 (71.70 to 72.70): VU037567.D (-1043) (-)



#23

Bromochloromethane

Concen: 43.041 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Tgt Ion: 128 Resp: 23957

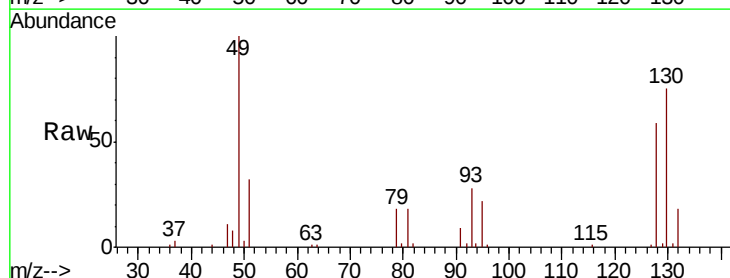
Ion Ratio Lower Upper

128 100

49 170.6 127.3 236.5

130 127.9 93.9 174.5

51 54.8 49.4 74.0

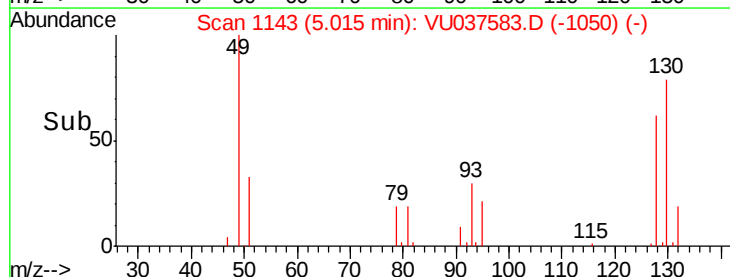
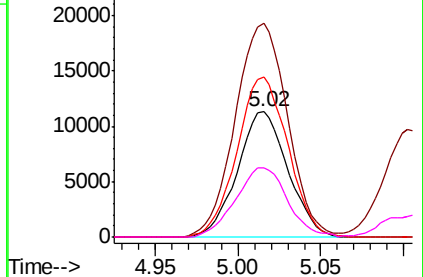


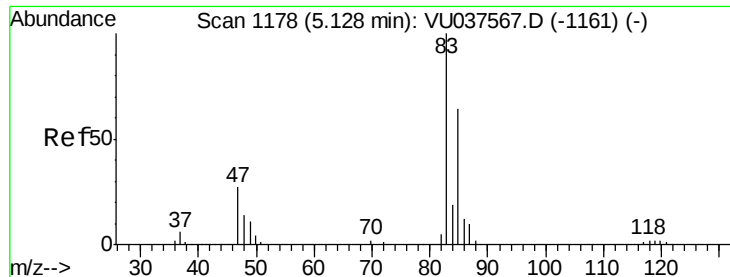
Abundance Ion 128.00 (127.70 to 128.70): VU037567.D (-1128) (-)

Ion 49.00 (48.70 to 49.70): VU037567.D (-1128) (-)

Ion 130.00 (129.70 to 130.70): VU037567.D (-1128) (-)

Ion 51.00 (50.70 to 51.70): VU037567.D (-1128) (-)

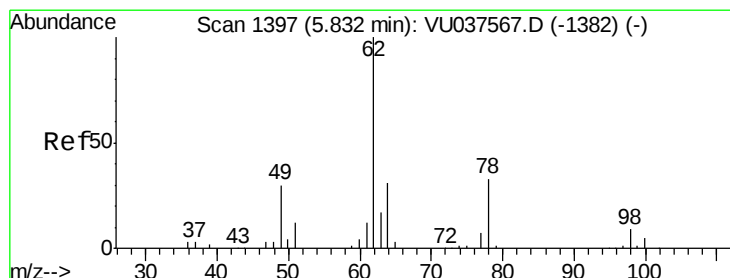
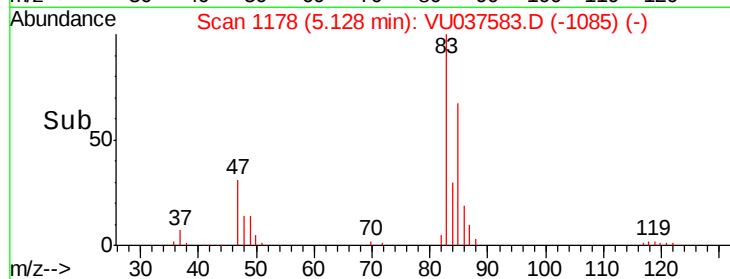
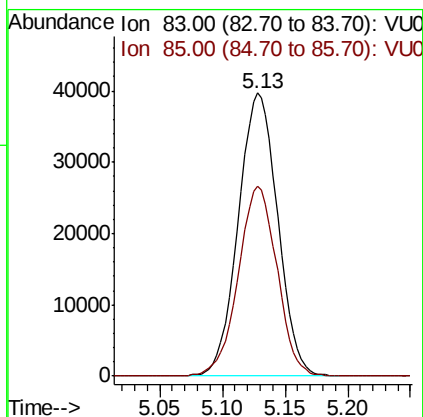
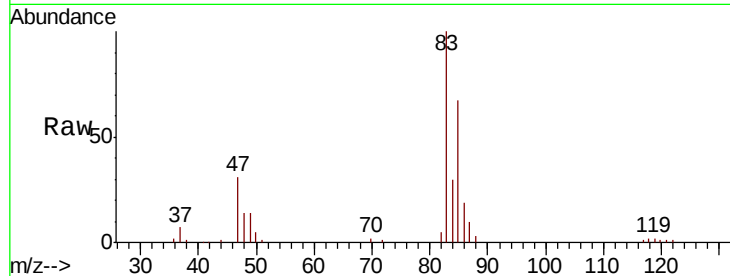




#25
Chloroform
Concen: 42.177 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

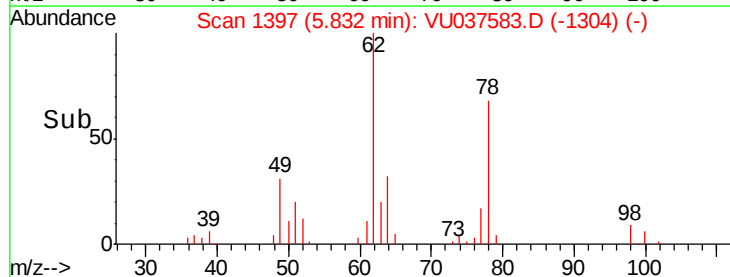
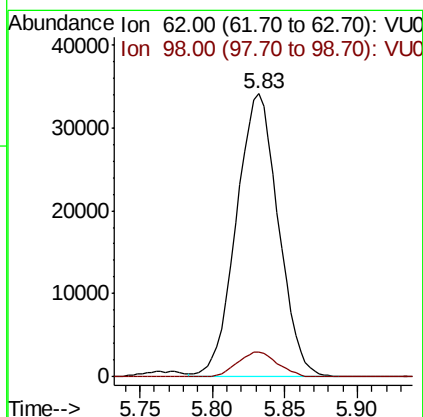
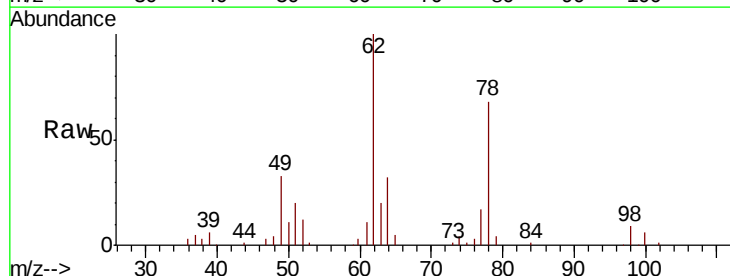
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

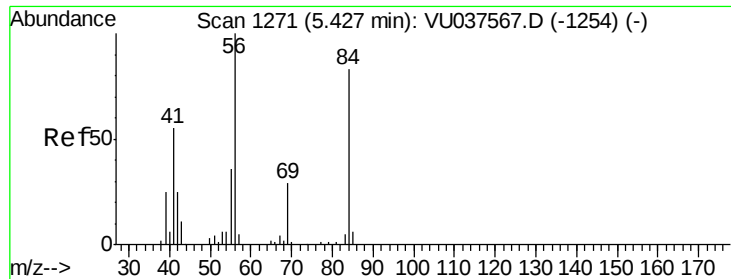
Tot Ion: 83 Resp: 86764
Ion Ratio Lower Upper
83 100
85 67.2 43.7 81.1



#27
1,2-Dichloroethane
Concen: 43.341 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Tgt Ion: 62 Resp: 68808
Ion Ratio Lower Upper
62 100
98 8.7 7.1 10.7

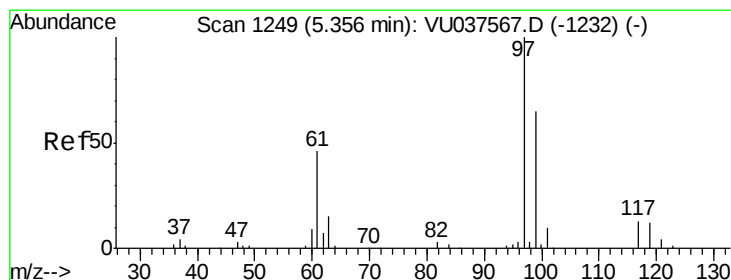
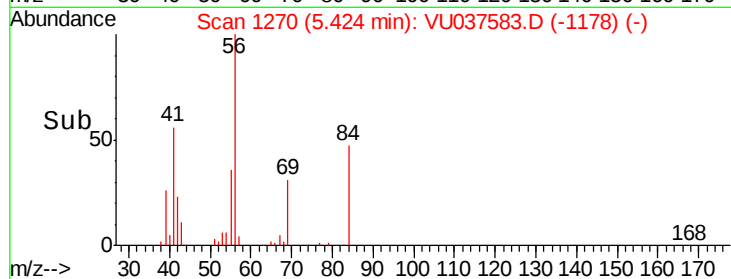
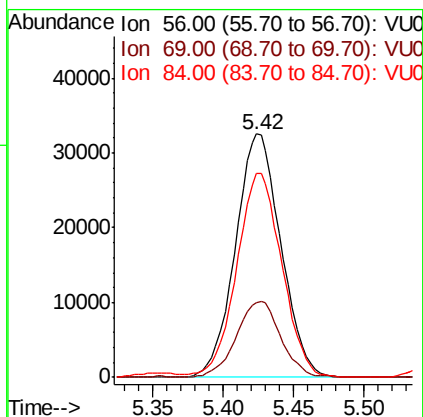
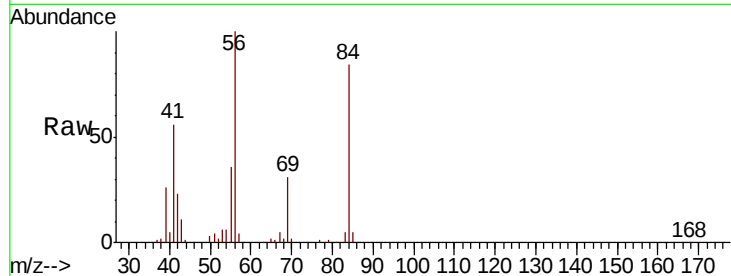




#29
Cyclohexane
Concen: 42.909 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

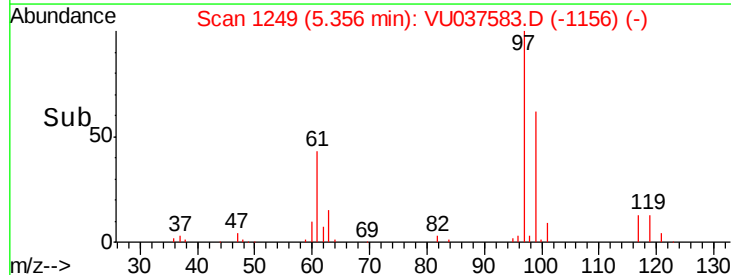
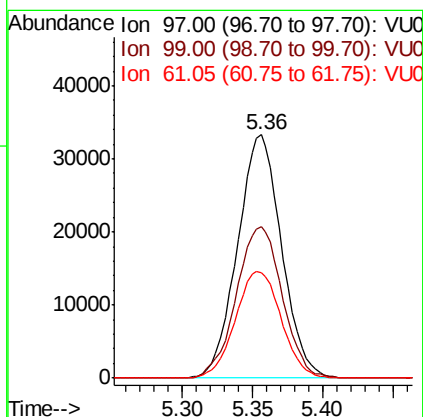
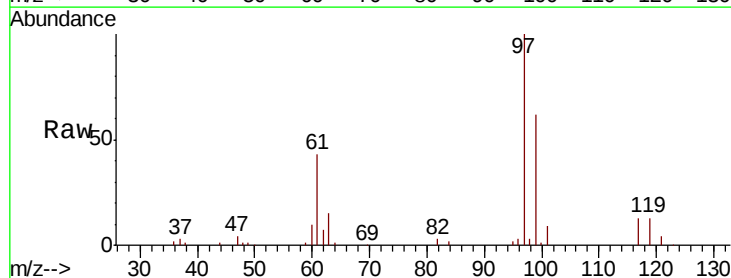
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

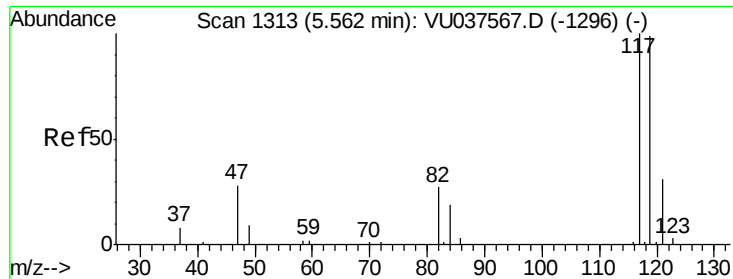
Tot Ion: 56 Resp: 73231
Ion Ratio Lower Upper
56 100
69 30.5 23.8 35.6
84 83.4 65.4 98.0



#30
1,1,1-Trichloroethane
Concen: 42.118 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Tgt Ion: 97 Resp: 72706
Ion Ratio Lower Upper
97 100
99 65.0 50.6 75.8
61 45.7 35.8 53.8

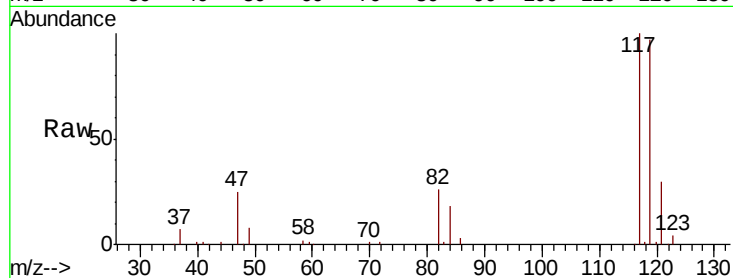




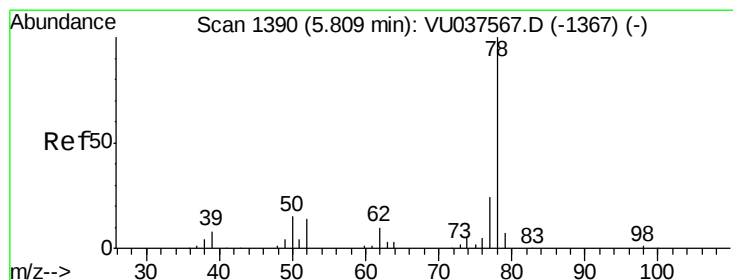
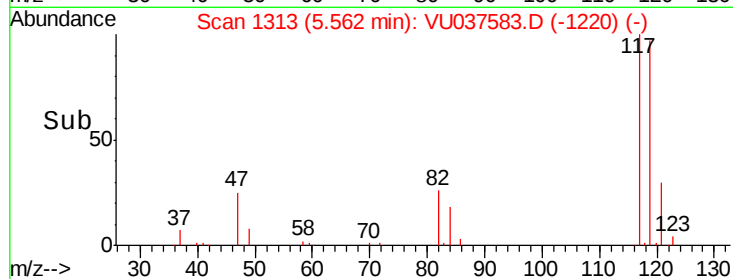
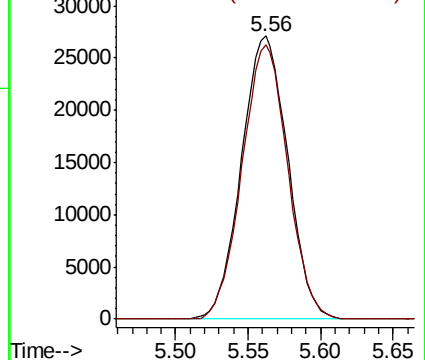
#31
Carbon tetrachloride
Concen: 42.284 ug/L
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tot Ion:117 Resp: 60076
Ion Ratio Lower Upper
117 100
119 95.7 77.8 116.8

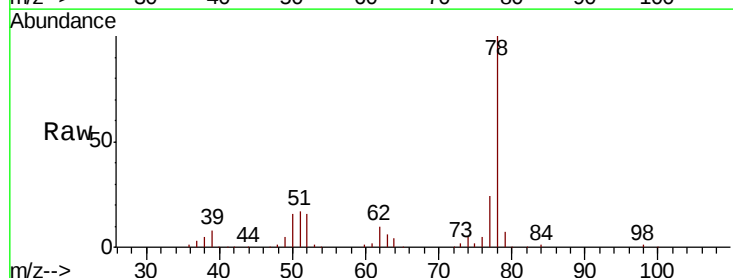


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

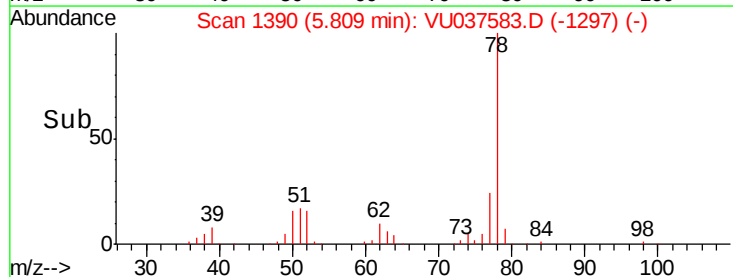
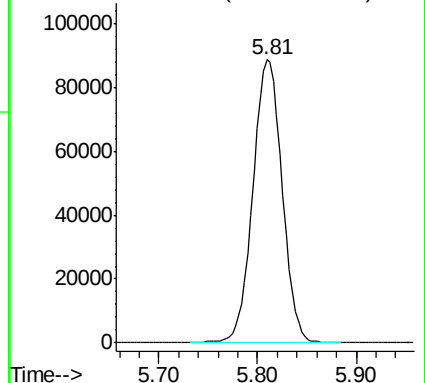


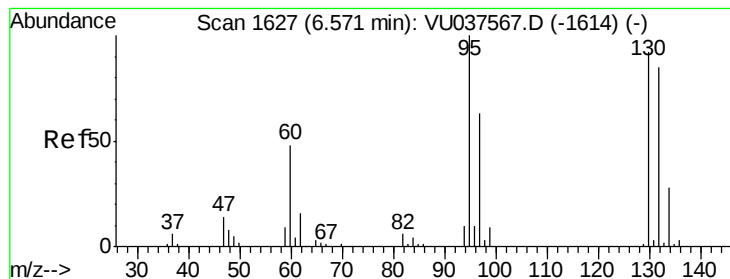
#33
Benzene
Concen: 42.432 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Tgt Ion: 78 Resp: 181058



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 41.799 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tot Ion: 95 Resp: 46637

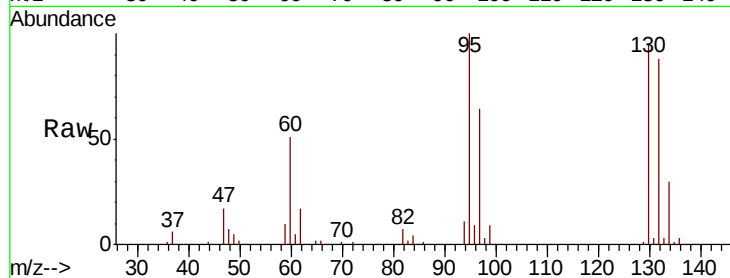
Ion Ratio Lower Upper

95 100

97 63.8 45.2 84.0

132 87.5 63.7 118.3

130 94.8 64.5 119.7

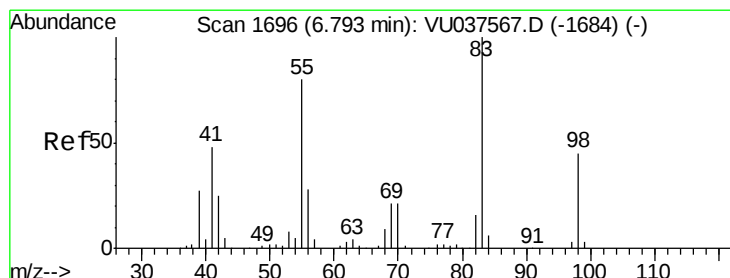
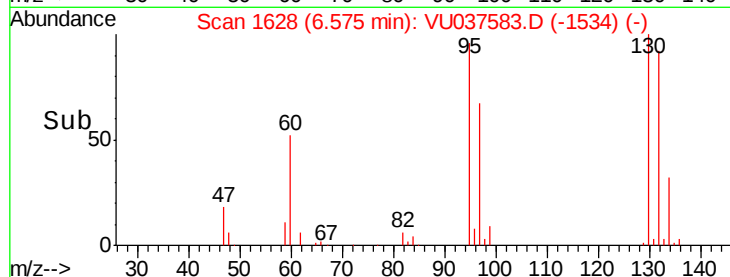
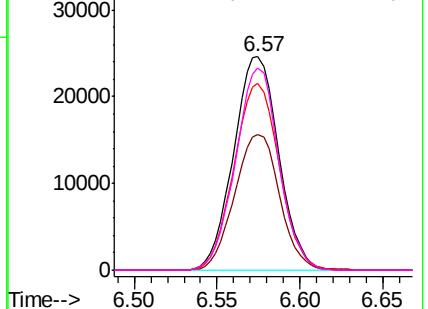


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 42.035 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

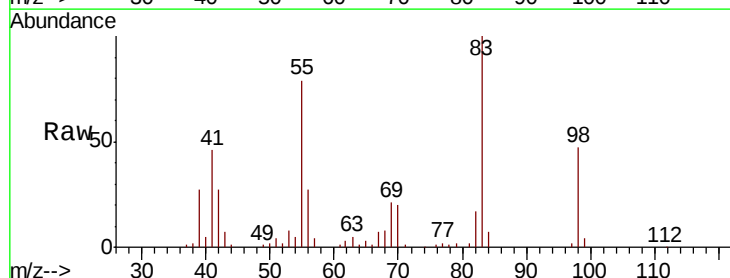
Tgt Ion: 83 Resp: 72464

Ion Ratio Lower Upper

83 100

55 79.2 61.1 91.7

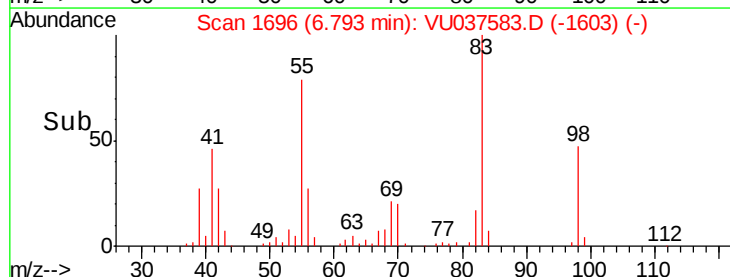
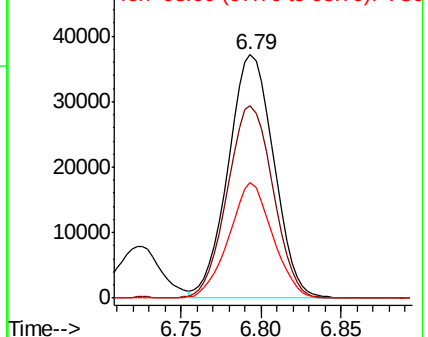
98 45.4 35.3 52.9

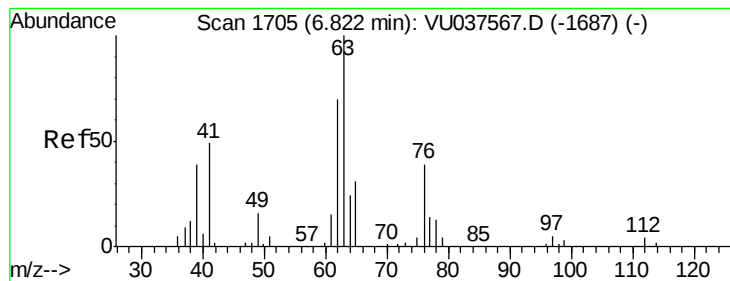


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 41.925 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

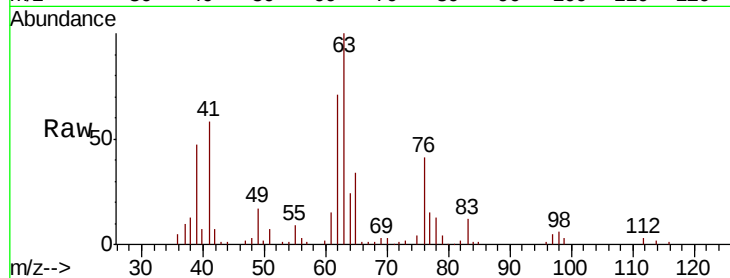
VSTD05059

Tot Ion: 63 Resp: 50972

Ion Ratio Lower Upper

63 100

112 2.5 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU037567.D (-1687) (-)

Ion 112.00 (111.70 to 112.70): VU037567.D (-1687) (-)

6.82

25000

20000

15000

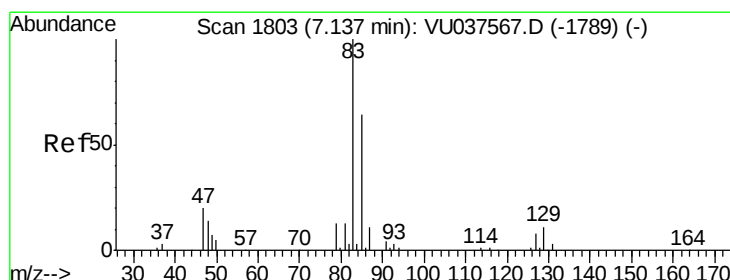
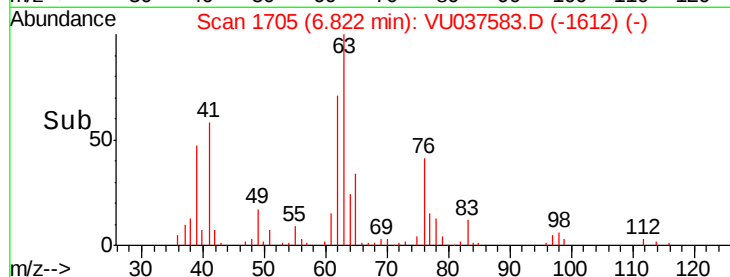
10000

5000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 42.973 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

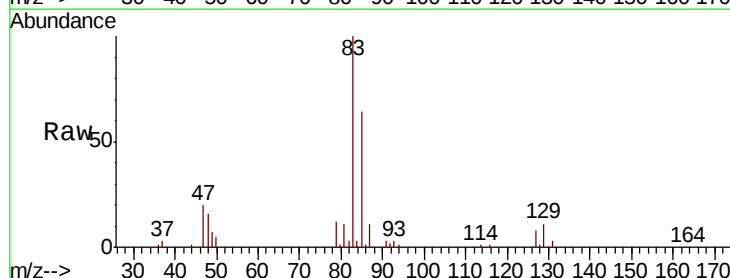
Tgt Ion: 83 Resp: 67952

Ion Ratio Lower Upper

83 100

85 64.0 45.2 84.0

127 8.9 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU037567.D (-1789) (-)

Ion 85.00 (84.70 to 85.70): VU037567.D (-1789) (-)

Ion 127.00 (126.70 to 127.70): VU037567.D (-1789) (-)

7.14

50000

40000

30000

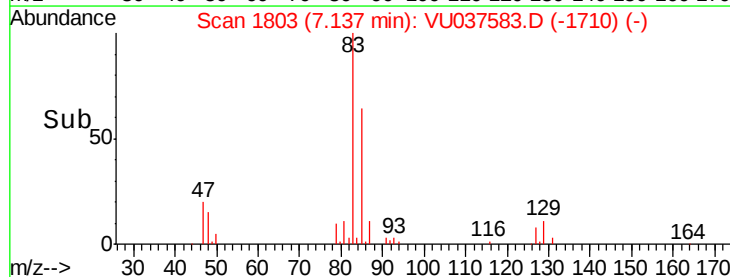
20000

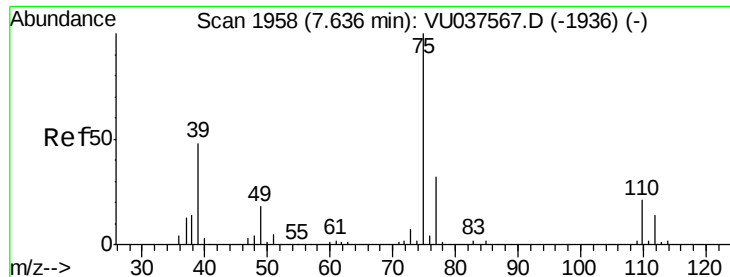
10000

0

7.05 7.10 7.15 7.20

Time-->

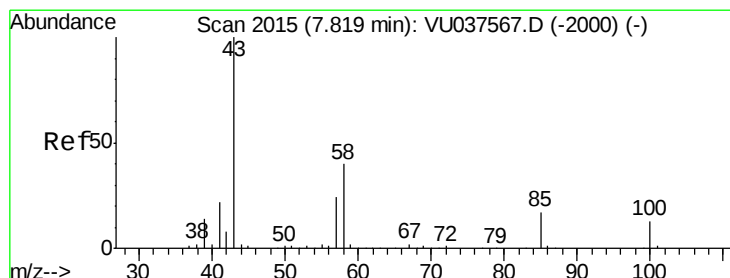
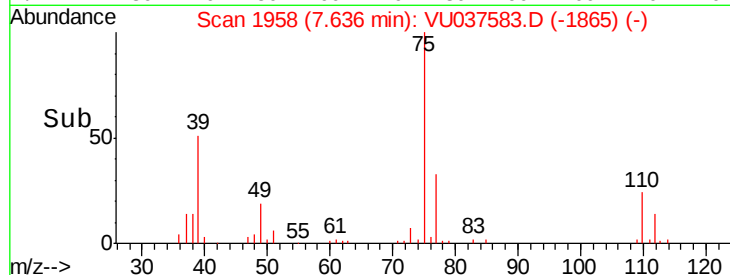
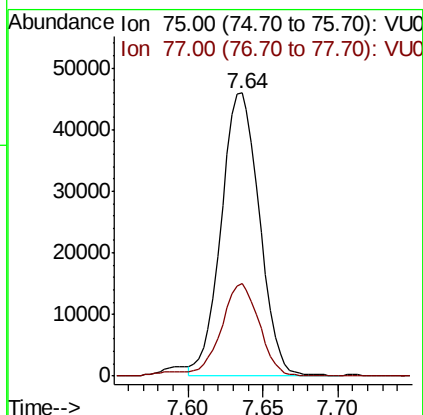
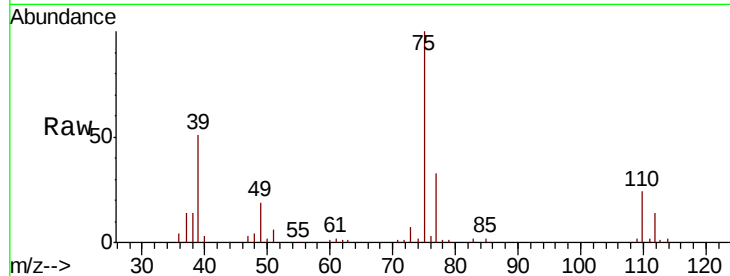




#39
 cis-1,3-Dichloropropene
 Concen: 42.775 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

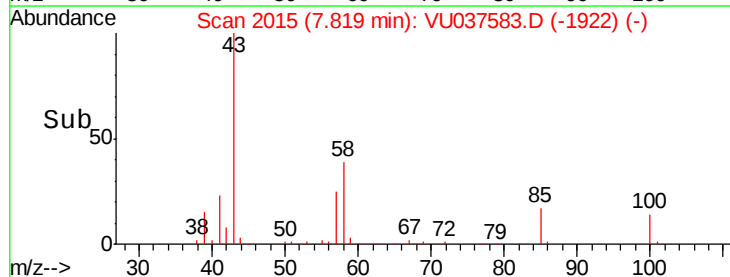
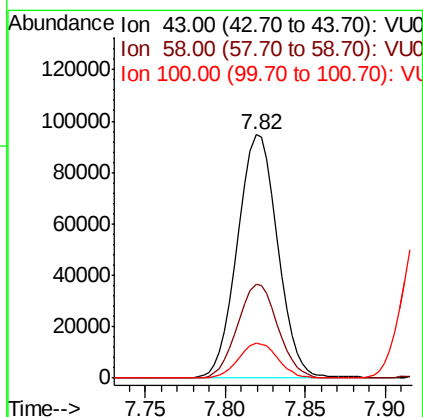
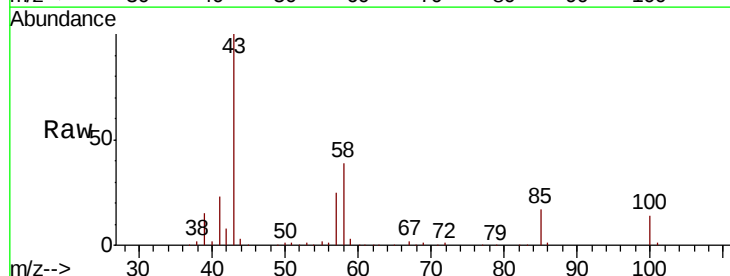
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

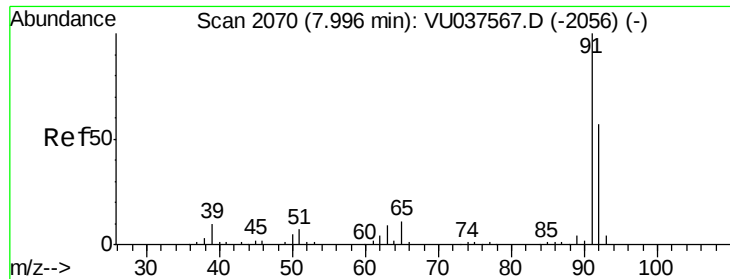
Tot Ion: 75 Resp: 81226
 Ion Ratio Lower Upper
 75 100
 77 32.6 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 82.323 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion: 43 Resp: 162412
 Ion Ratio Lower Upper
 43 100
 58 39.0 31.4 47.0
 100 14.0 11.0 16.4





#42

Toluene

Concen: 41.919 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

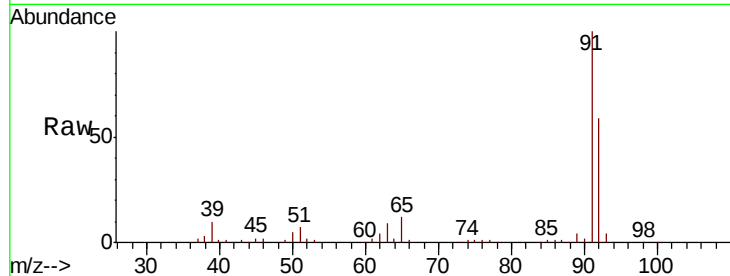
VSTD05059

Tot Ion: 91 Resp: 193562

Ion Ratio Lower Upper

91 100

92 58.8 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037567.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU037567.D (-2056) (-)

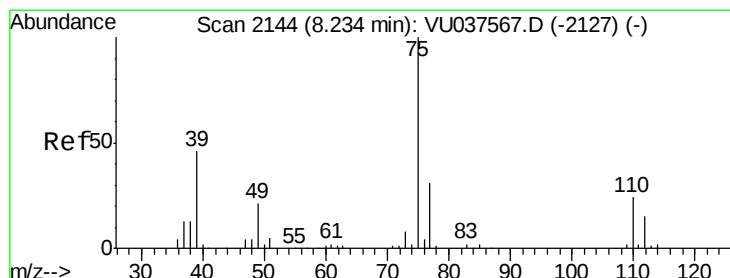
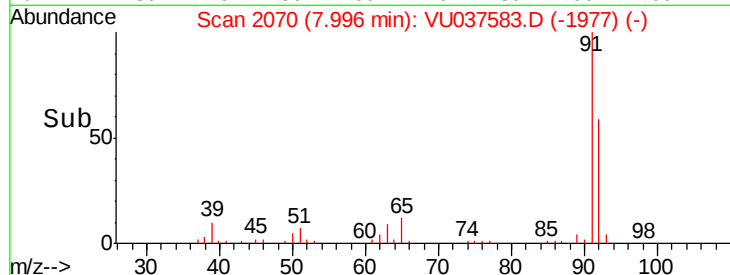
8.00

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 43.502 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037583.D

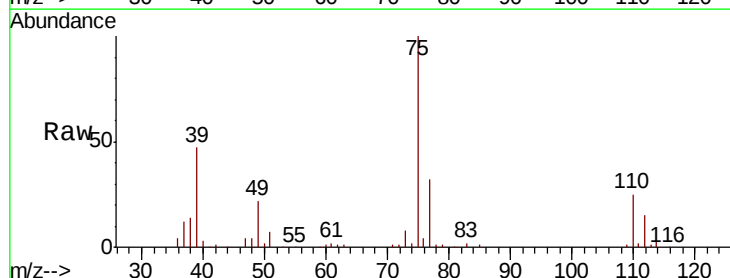
Acq: 06 Apr 2020 10:27

Tgt Ion: 75 Resp: 81349

Ion Ratio Lower Upper

75 100

77 32.4 23.4 43.6



Abundance Ion 75.00 (74.70 to 75.70): VU037567.D (-2127) (-)

Ion 77.00 (76.70 to 77.70): VU037567.D (-2127) (-)

8.23

50000

40000

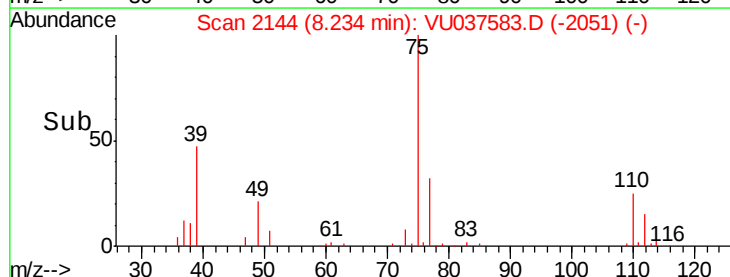
30000

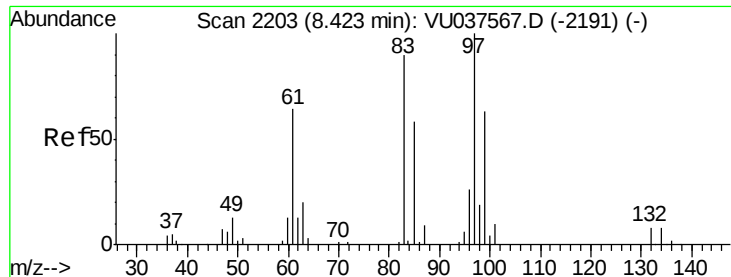
20000

10000

0

Time-->

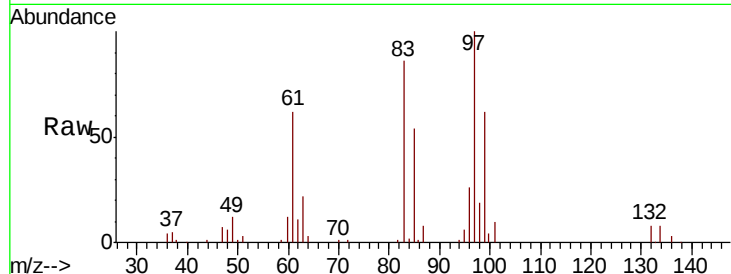




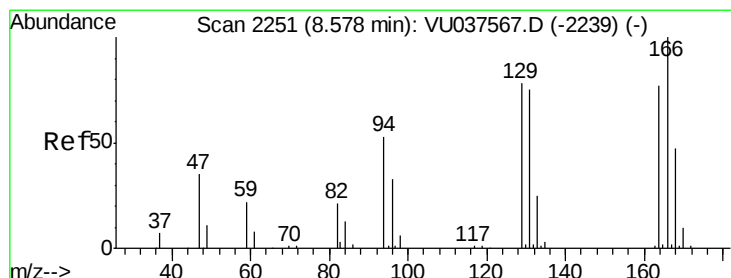
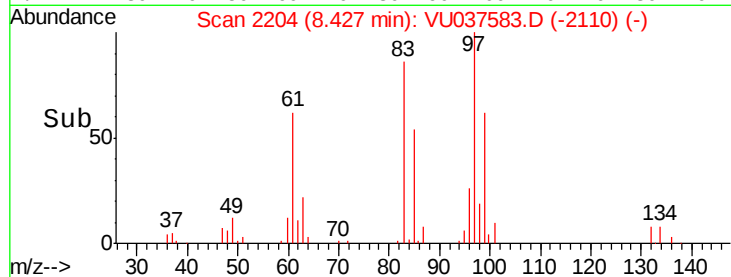
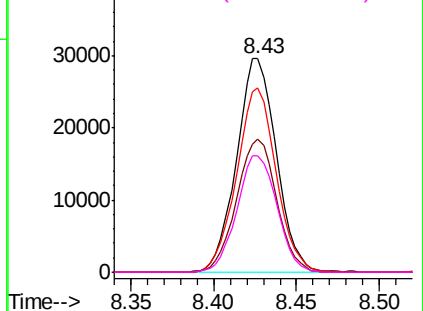
#45
 1,1,2-Trichloroethane
 Concen: 44.632 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tot Ion:	97	Resp:	49542
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.3	80.5
83	86.4	60.8	112.8
85	54.5	37.9	70.5

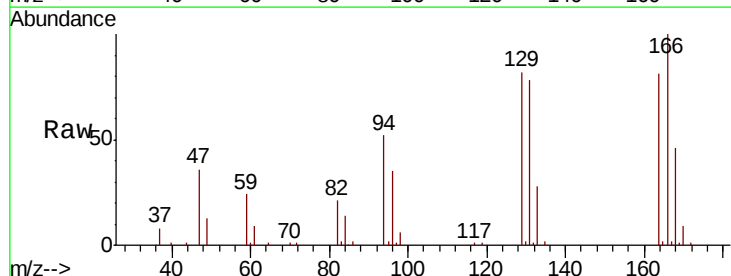


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

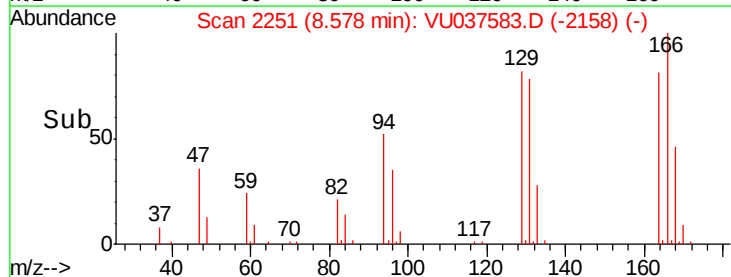
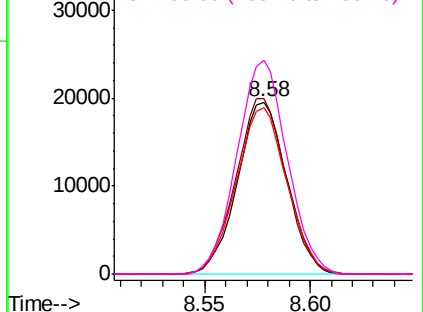


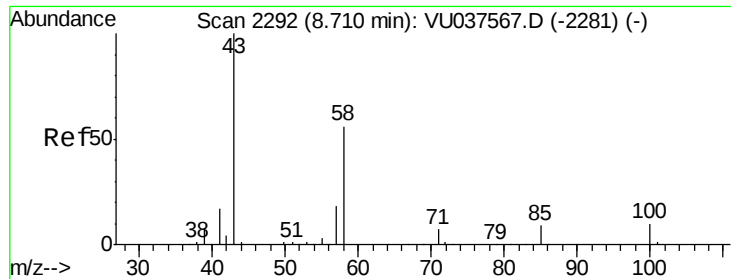
#46
 Tetrachloroethene
 Concen: 42.460 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion:	164	Resp:	31809
Ion	Ratio	Lower	Upper
164	100		
129	101.6	76.5	142.1
131	96.7	71.7	133.1
166	124.1	88.8	165.0



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

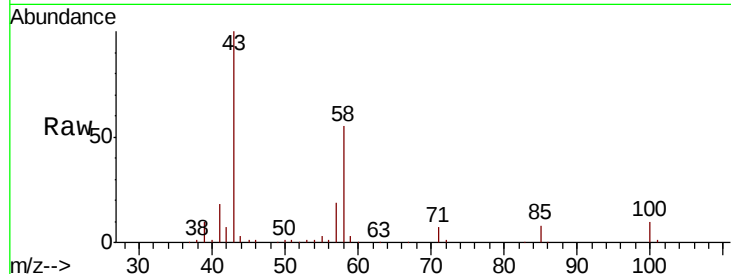




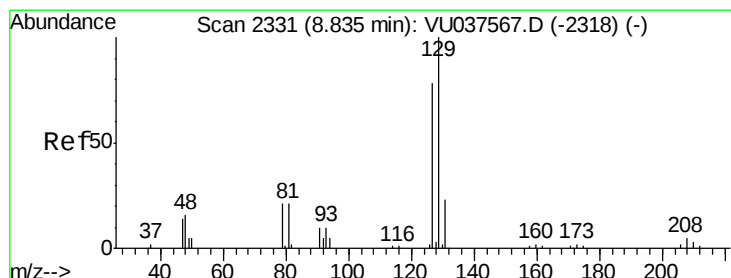
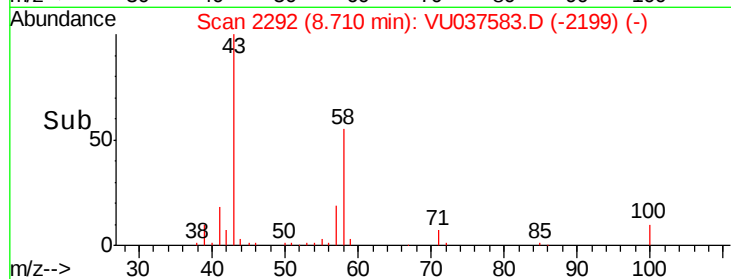
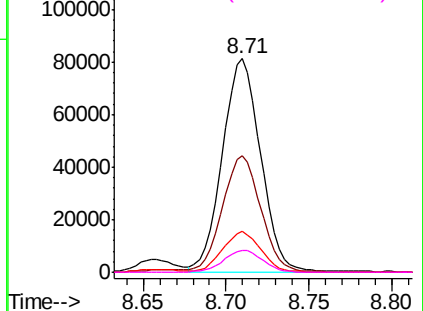
#48
2-Hexanone
Concen: 84.936 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tot Ion:	43	Resp:	130311
Ion	Ratio	Lower	Upper
43	100		
58	54.6	44.4	66.6
57	19.2	15.1	22.7
100	10.5	8.7	13.1

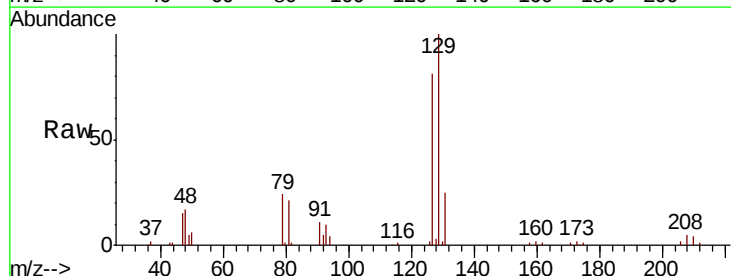


Abundance Ion 43.00 (42.70 to 43.70): VU037567.D (-2281) (-)
Ion 58.00 (57.70 to 58.70): VU037567.D (-2281) (-)
Ion 57.00 (56.70 to 57.70): VU037567.D (-2281) (-)
Ion 100.00 (99.70 to 100.70): VU037567.D (-2281) (-)

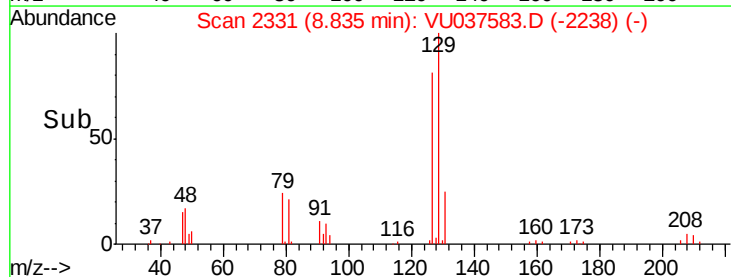
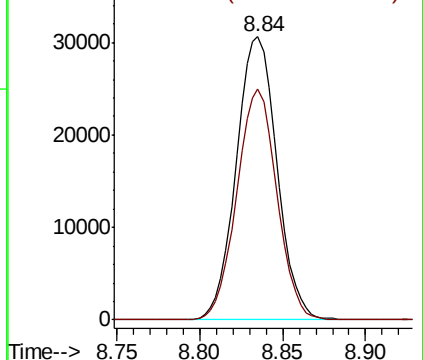


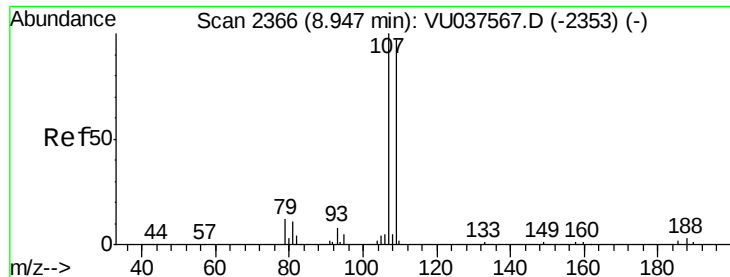
#49
Dibromochloromethane
Concen: 42.280 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037583.D
Acq: 06 Apr 2020 10:27

Tgt Ion:	129	Resp:	52347
Ion	Ratio	Lower	Upper
129	100		
127	81.4	55.0	102.2



Abundance Ion 129.00 (128.70 to 129.70): VU037567.D (-2318) (-)
Ion 127.00 (126.70 to 127.70): VU037567.D (-2318) (-)

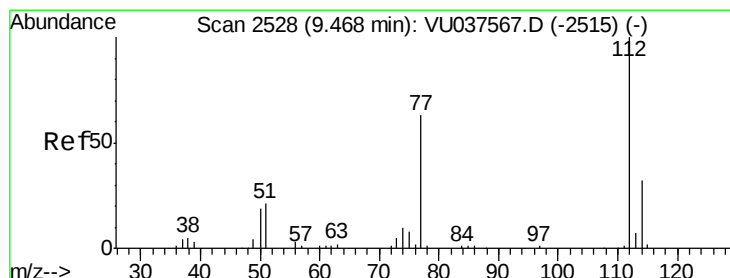
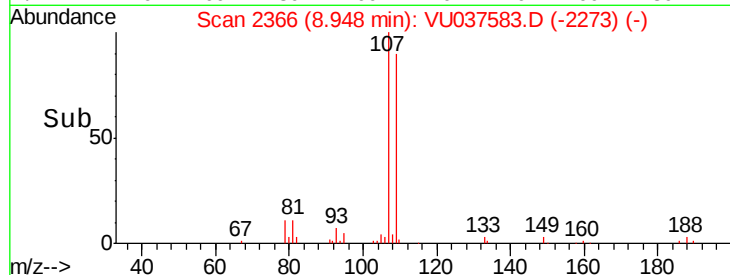
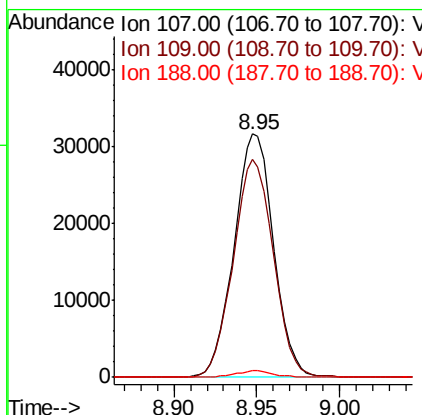
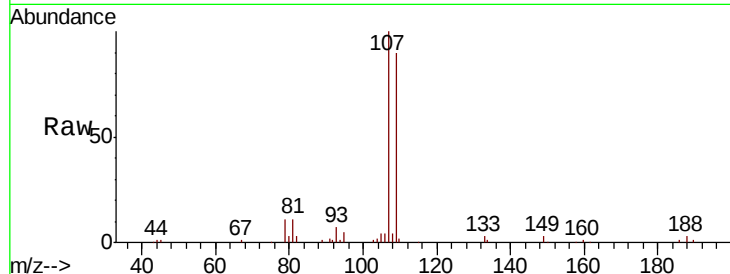




#50
 1,2-Dibromoethane
 Concen: 42.897 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

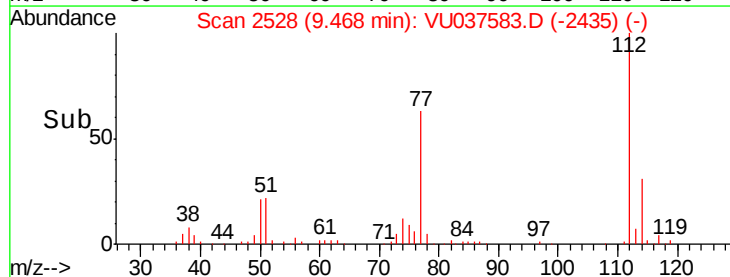
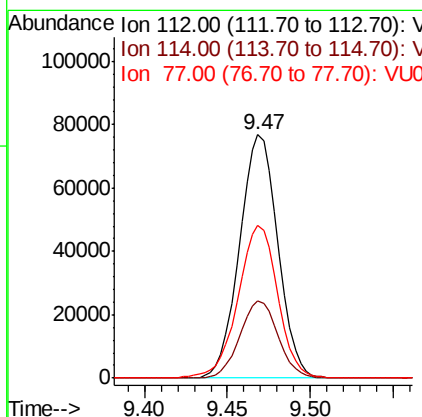
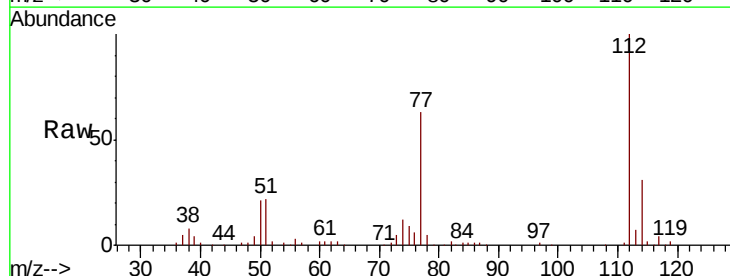
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

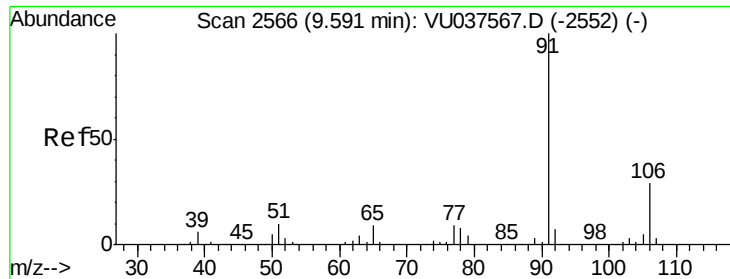
Tot Ion	Ratio	Lower	Upper
107	100		
109	89.5	64.1	119.1
188	2.8	2.3	3.5



#51
 Chlorobenzene
 Concen: 43.076 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	21.0	39.0
77	62.7	50.2	75.4





#52

Ethylbenzene

Concen: 42.922 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

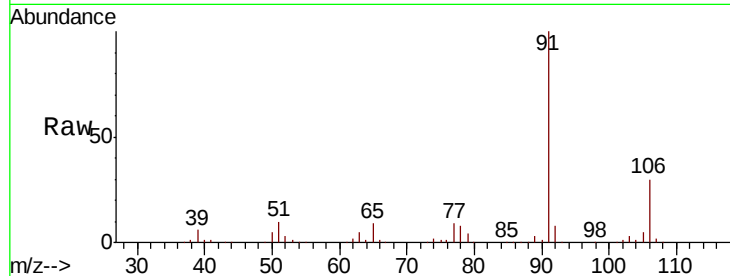
VSTD05059

Tot Ion: 91 Resp: 224134

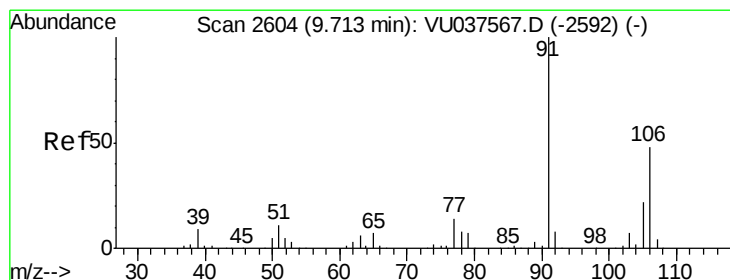
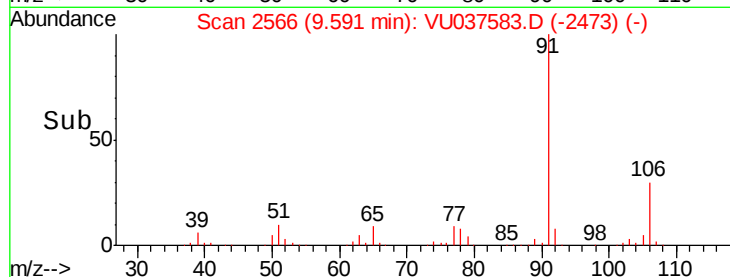
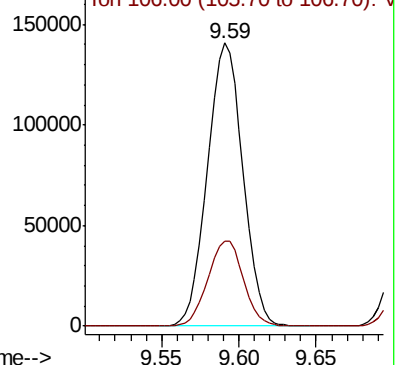
Ion Ratio Lower Upper

91 100

106 30.2 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VU037567.D (-2552) (-)



#53

m,p-Xylene

Concen: 43.007 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU037583.D

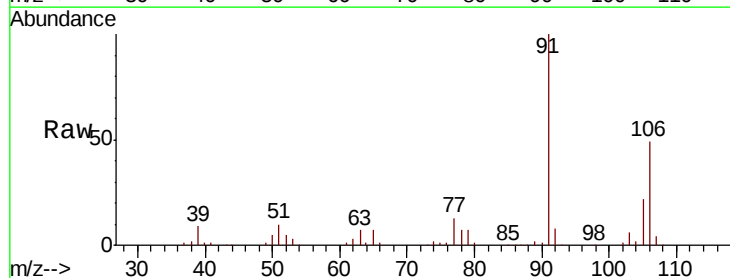
Acq: 06 Apr 2020 10:27

Tgt Ion: 106 Resp: 83768

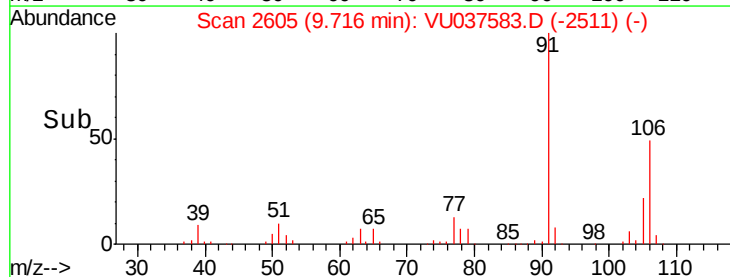
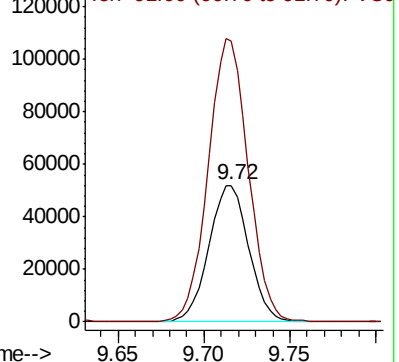
Ion Ratio Lower Upper

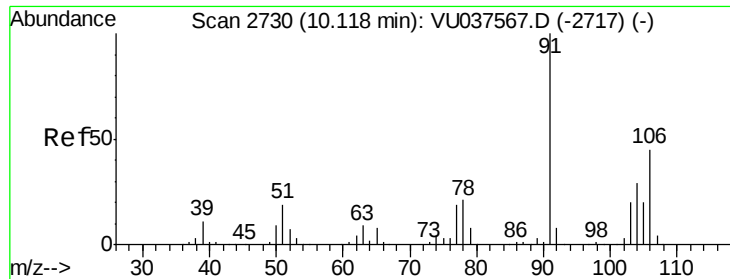
106 100

91 205.6 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU037583.D (-2511) (-)





#54

o-xylene

Concen: 43.448 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

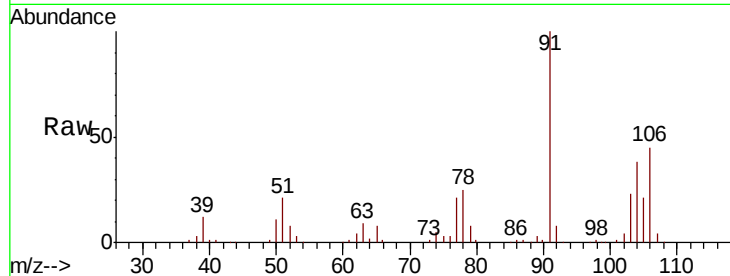
VSTD05059

Tot Ion:106 Resp: 81565

Ion Ratio Lower Upper

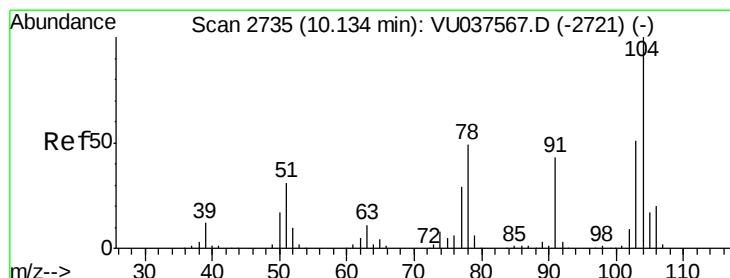
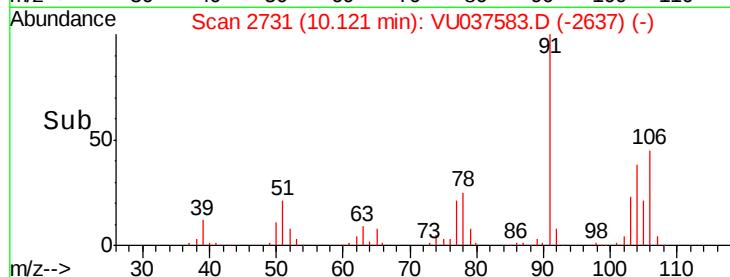
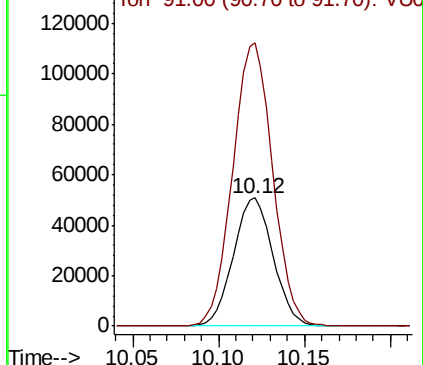
106 100

91 220.4 152.6 283.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 42.751 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037583.D

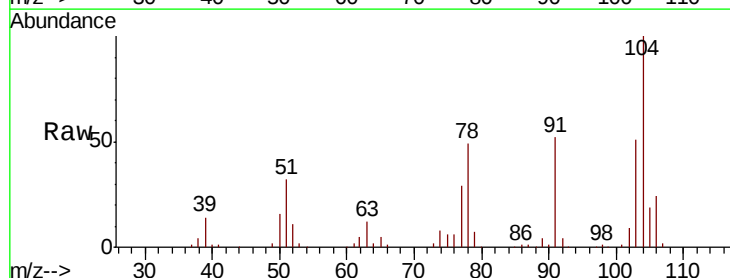
Acq: 06 Apr 2020 10:27

Tgt Ion:104 Resp: 142109

Ion Ratio Lower Upper

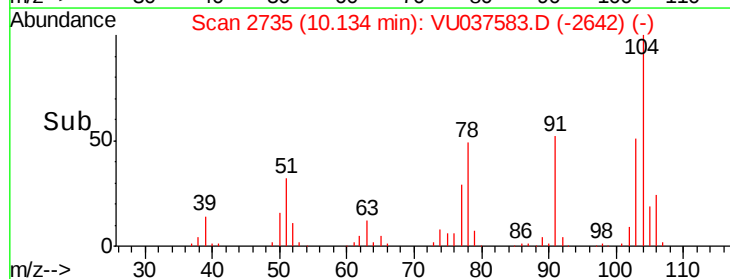
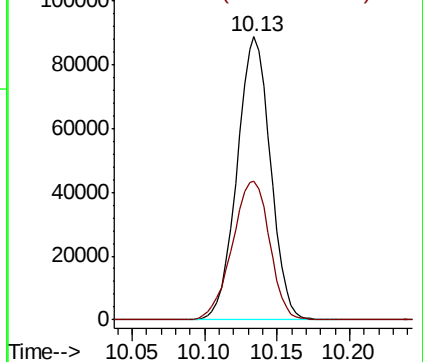
104 100

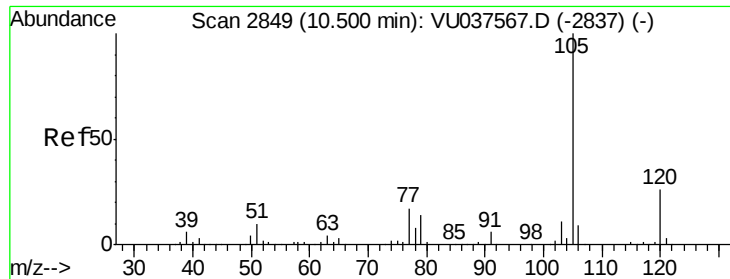
78 49.0 34.9 64.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 42.739 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

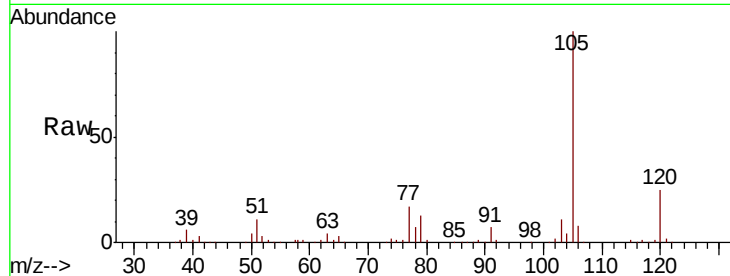
Tot Ion:105 Resp: 217544

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

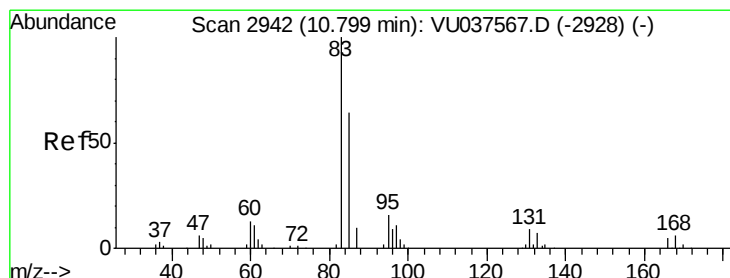
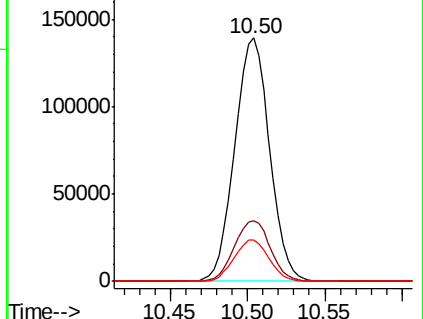
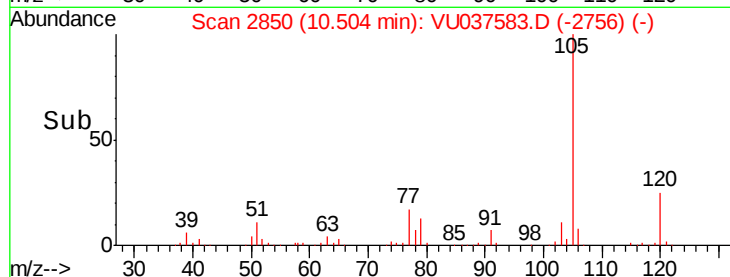
77 17.1 13.4 20.0



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: 42.017 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

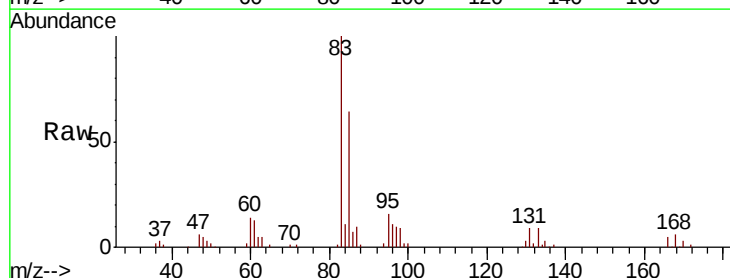
Tgt Ion: 83 Resp: 84079

Ion Ratio Lower Upper

83 100

85 64.0 44.2 82.2

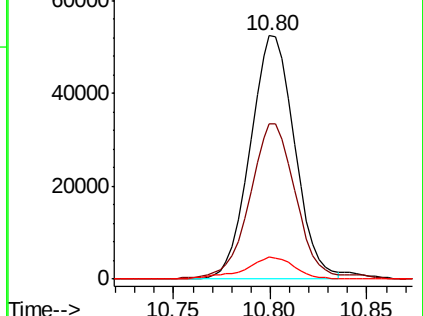
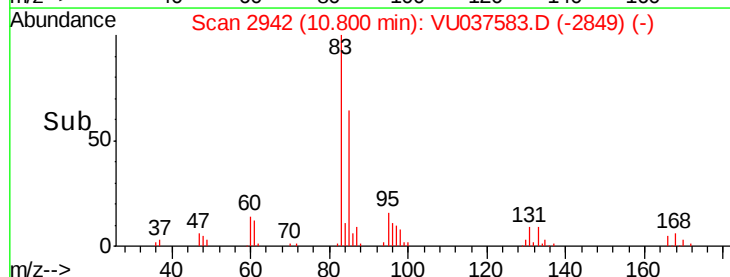
131 8.9 7.2 10.8

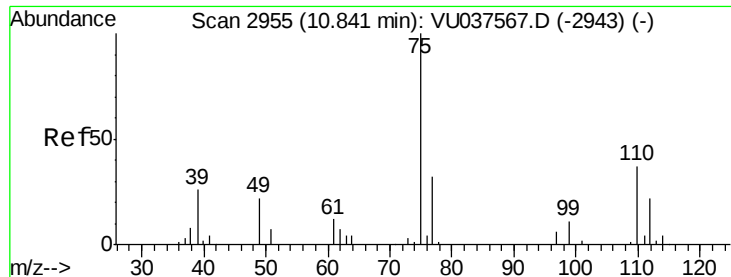


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

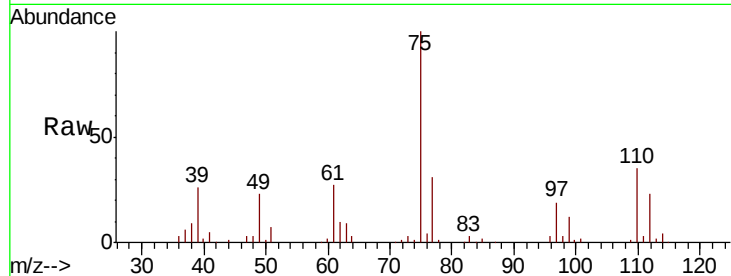




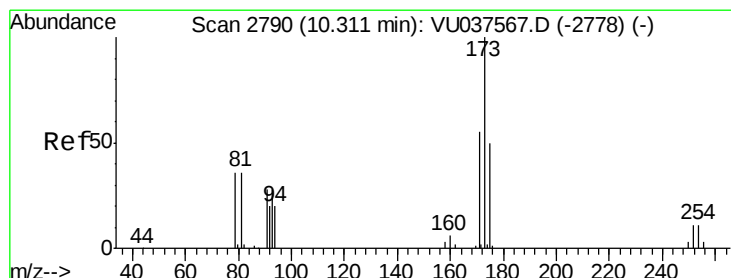
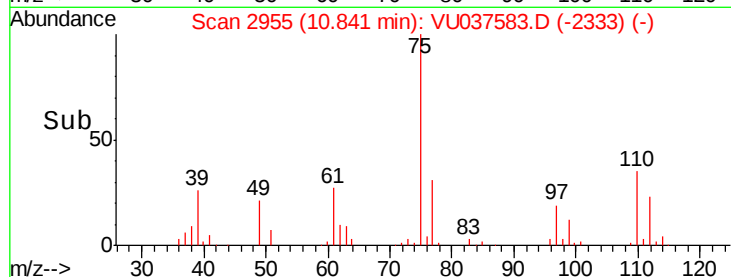
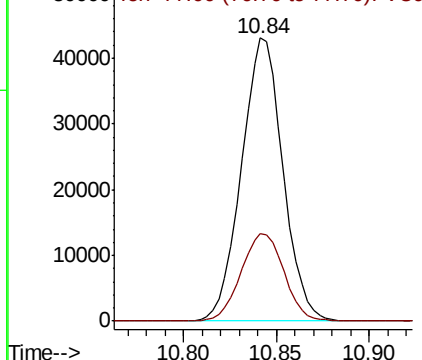
#59
 1,2,3-Trichloropropane
 Concen: 42.907 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tot Ion: 75 Resp: 67060
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.5 38.3

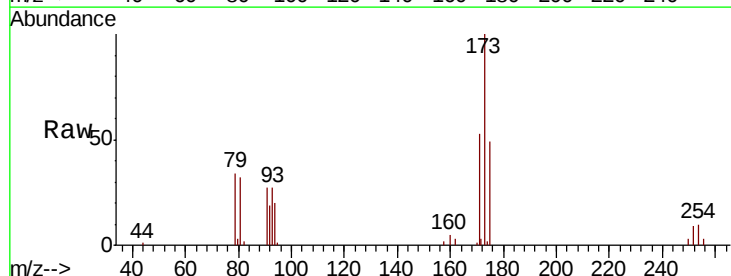


Abundance Ion 75.00 (74.70 to 75.70): VU037567.D (-2943) (-)
 Ion 77.00 (76.70 to 77.70): VU037567.D (-2943) (-)

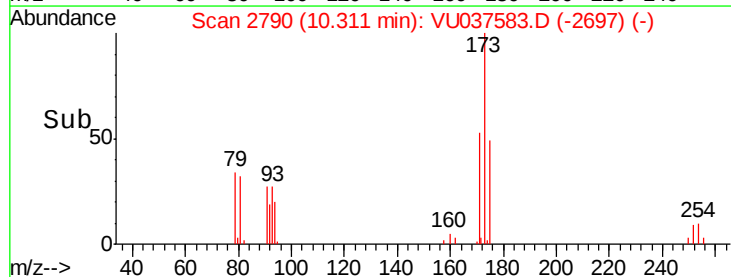
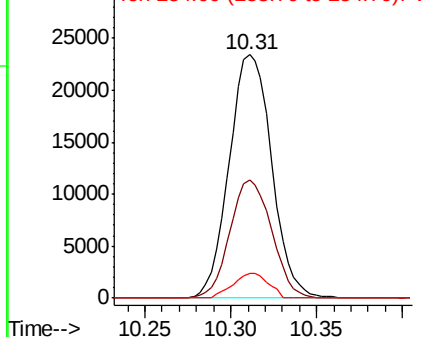


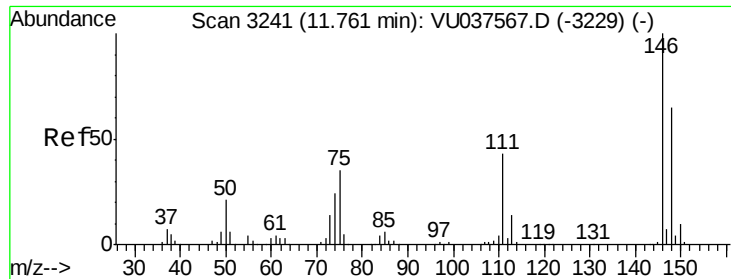
#61
 Bromoform
 Concen: 43.141 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion: 173 Resp: 40276
 Ion Ratio Lower Upper
 173 100
 175 47.5 38.6 58.0
 254 8.4 7.4 11.2



Abundance Ion 173.00 (172.70 to 173.70): VU037567.D (-2778) (-)
 Ion 175.00 (174.70 to 175.70): VU037567.D (-2778) (-)
 Ion 254.00 (253.70 to 254.70): VU037567.D (-2778) (-)

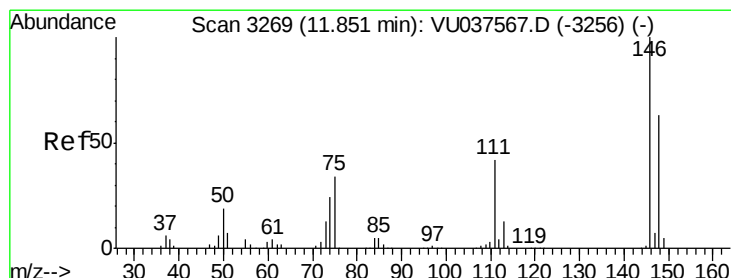
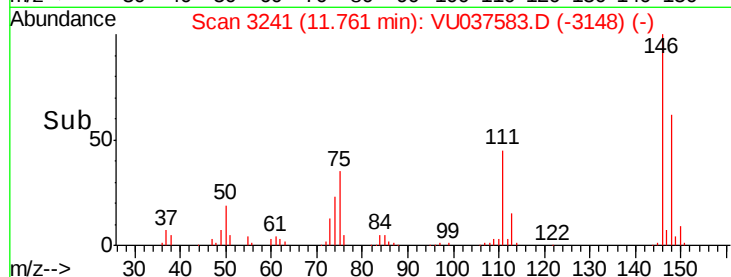
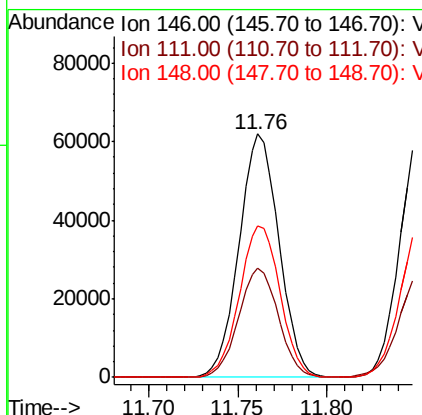
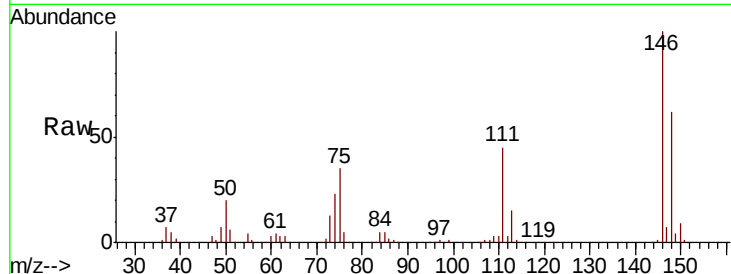




#62
 1,3-Dichlorobenzene
 Concen: 41.029 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

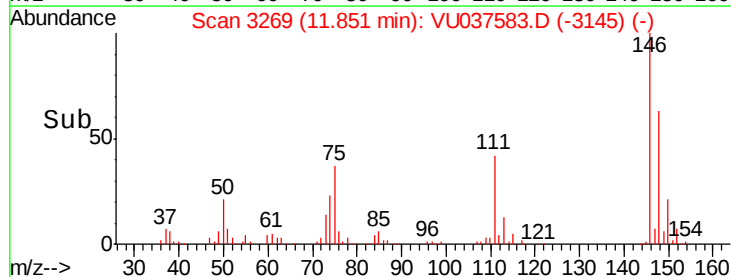
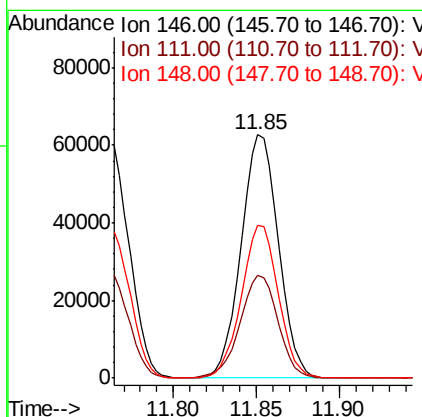
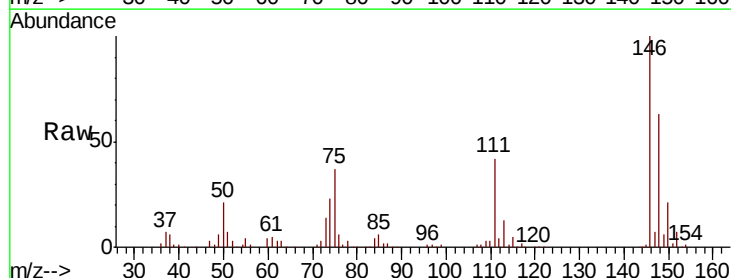
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

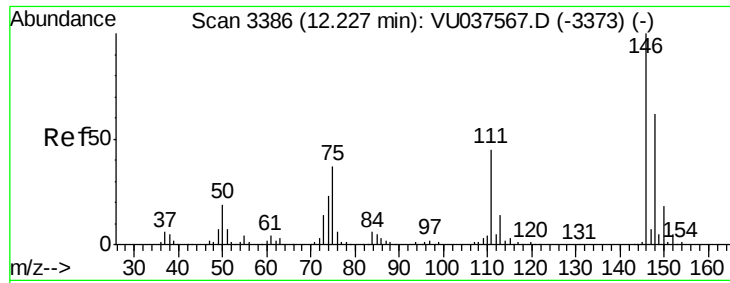
Tot Ion:146 Resp: 96751
 Ion Ratio Lower Upper
 146 100
 111 44.8 31.1 57.7
 148 62.3 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 41.318 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion:146 Resp: 98335
 Ion Ratio Lower Upper
 146 100
 111 42.0 30.1 55.9
 148 62.6 44.7 82.9





#65

1,2-Dichlorobenzene

Concen: 41.370 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

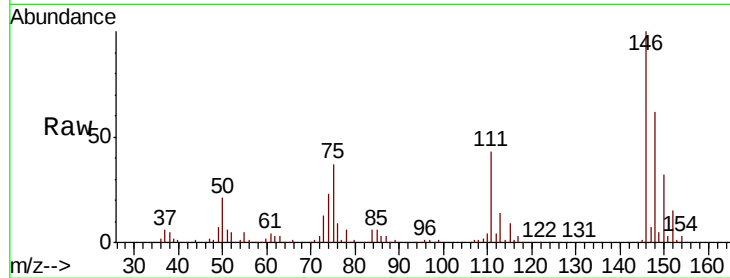
Tot Ion:146 Resp: 96594

Ion Ratio Lower Upper

146 100

111 43.1 35.6 53.4

148 62.4 51.0 76.6

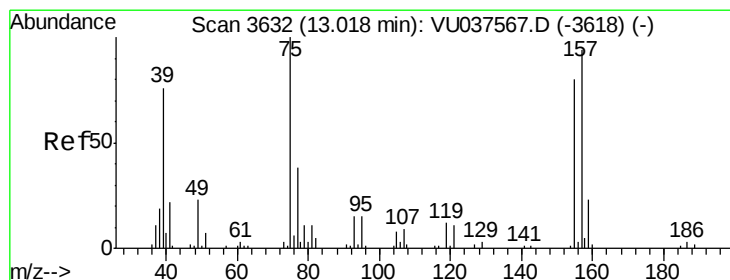
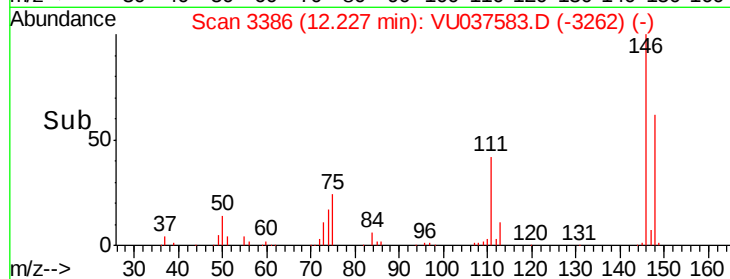
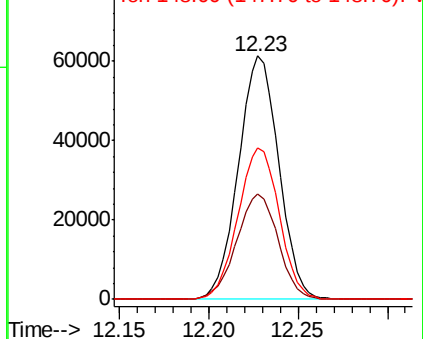


Abundance

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: 40.614 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

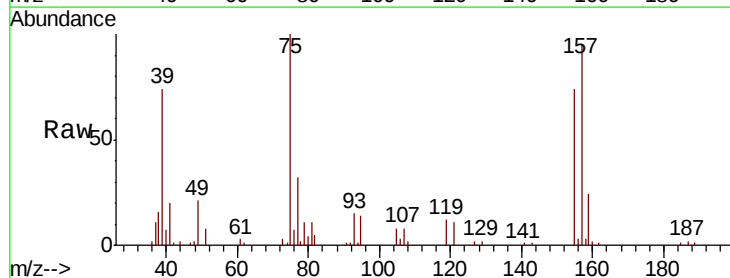
Tgt Ion: 75 Resp: 22746

Ion Ratio Lower Upper

75 100

155 74.4 56.6 85.0

157 94.5 72.4 108.6

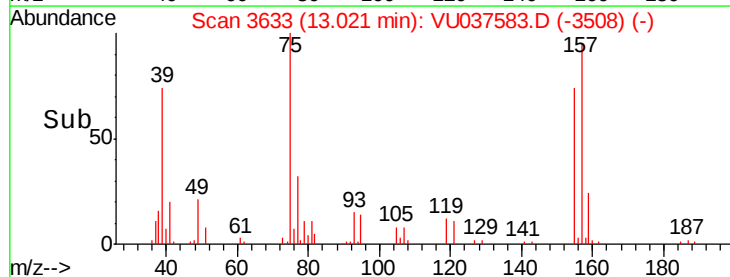
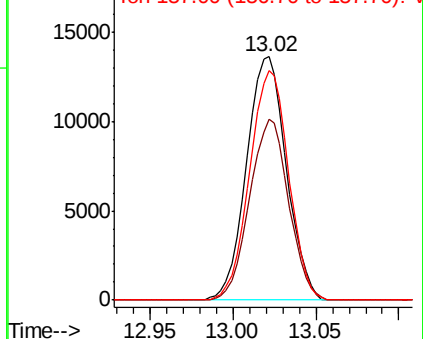


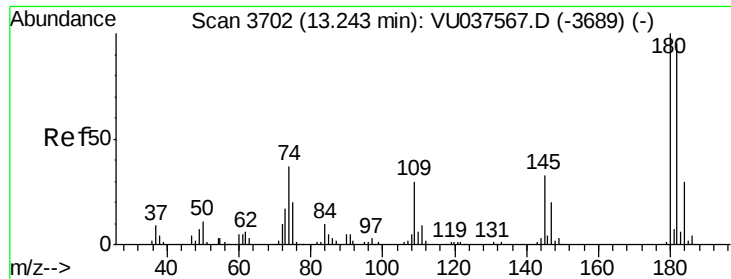
Abundance

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

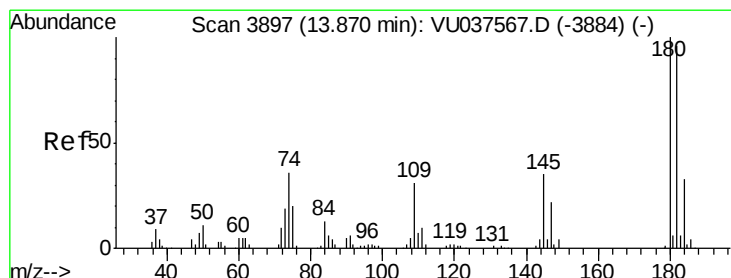
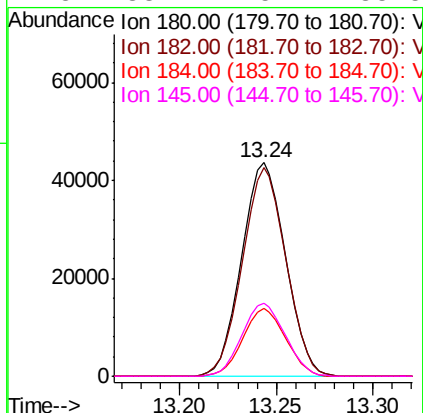
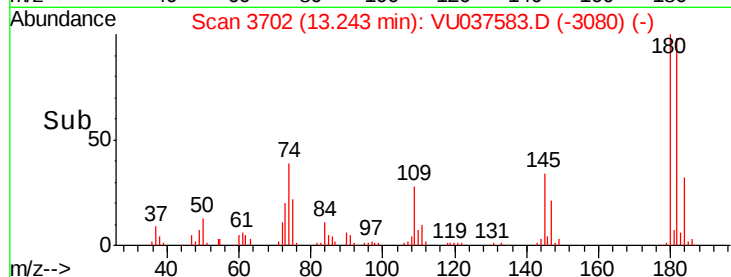
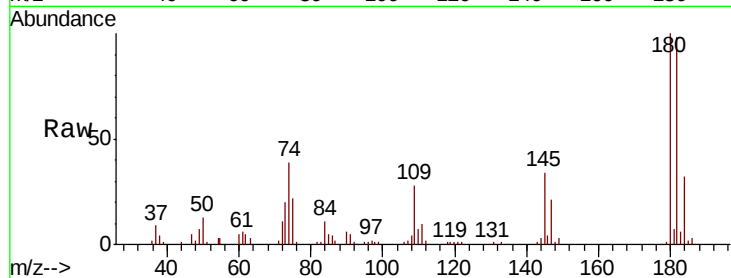




#67
 1,3,5-Trichlorobenzene
 Concen: 42.064 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

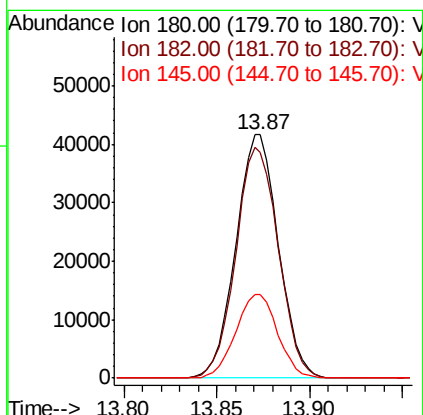
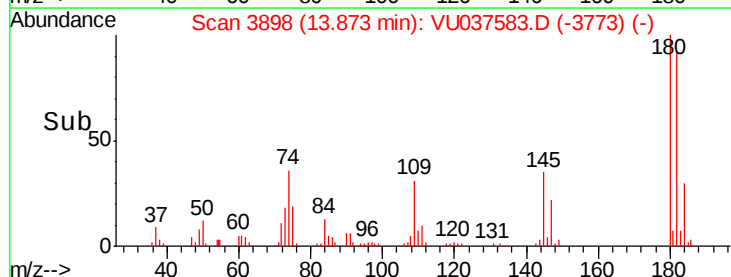
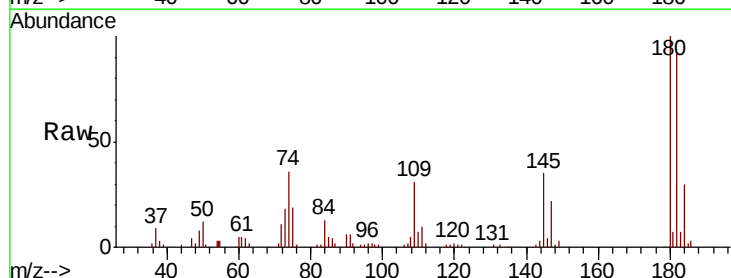
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

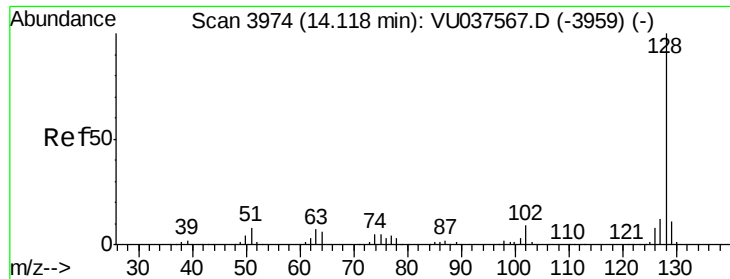
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	74.9	112.3
184	30.9	23.6	35.4
145	33.7	25.7	38.5



#68
 1,2,4-trichlorobenzene
 Concen: 42.386 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.00 min
 Lab File: VU037583.D
 Acq: 06 Apr 2020 10:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	74.4	111.6
145	34.0	26.9	40.3





#69

Naphthalene

Concen: 38.309 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

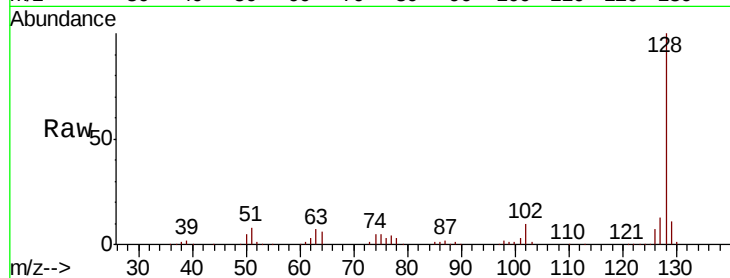
Tot Ion:128 Resp: 253245

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

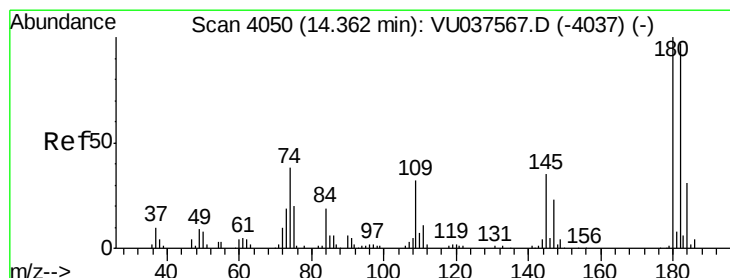
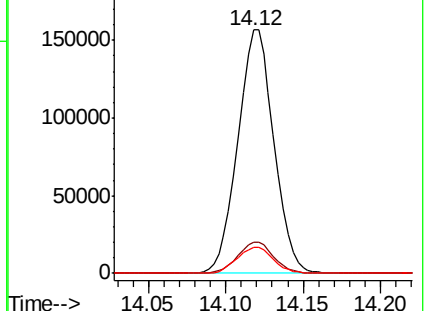
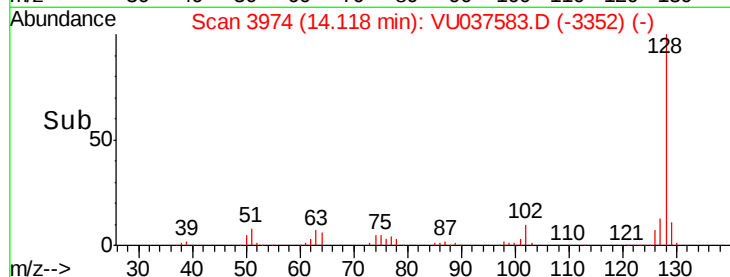
129 10.8 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 42.199 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.00 min

Lab File: VU037583.D

Acq: 06 Apr 2020 10:27

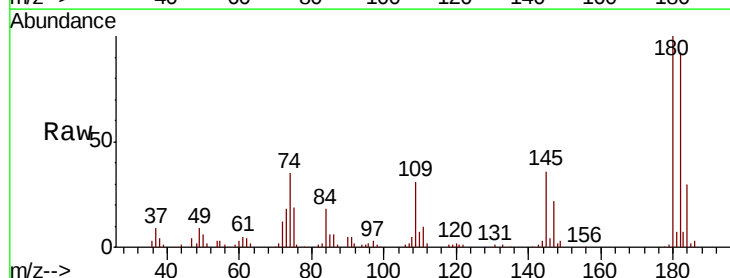
Tgt Ion:180 Resp: 66518

Ion Ratio Lower Upper

180 100

182 92.8 76.0 114.0

145 35.2 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

