

Data File : VU031933.D
Acq On : 12 May 2019 10:32
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

Quant Time: May 13 07:00:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 10 03:36:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	507109	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	497973	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	231888	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	186842	5.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.20%
7) Chloroethane-d5	1.68	69	170912	6.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	120.00%
11) 1,1-Dichloroethene-d2	2.27	63	355556	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.60%
20) 2-Butanone-d5	4.21	46	583738	43.26	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.52%
24) Chloroform-d	4.64	84	341110	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.31	65	178383	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.00%
32) Benzene-d6	5.33	84	644210	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.33	67	215785	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.20%
41) Toluene-d8	7.56	98	561232	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.00%
43) trans-1,3-Dichloropropene-	7.85	79	82855	5.04	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.80%
46) 2-Hexanone-d5	8.31	63	430181	51.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.56%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	192168	5.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	207059	5.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	234237	4.012 ug/L	99
3) Chloromethane	1.32	50	266455	3.829 ug/L	98
5) Vinyl chloride	1.40	62	278689	4.582 ug/L	97
6) Bromomethane	1.63	94	159892	5.727 ug/L	97
8) Chloroethane	1.70	64	176927	5.282 ug/L	97
9) Trichlorofluoromethane	1.88	101	334306	4.753 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	204177	5.578 ug/L	96
12) 1,1-Dichloroethene	2.28	96	195458	5.670 ug/L	76
13) Acetone	2.35	43	428520	46.497 ug/L	84
14) Carbon disulfide	2.48	76	627304	5.170 ug/L	100
15) Methyl Acetate	2.62	43	110709	4.656 ug/L #	89
16) Methylene chloride	2.70	84	229530	4.799 ug/L	84
17) Methyl tert-butyl Ether	3.00	73	548964	5.346 ug/L #	91
18) trans-1,2-Dichloroethene	2.98	96	209908	5.650 ug/L	84
19) 1,1-Dichloroethane	3.44	63	406540	4.449 ug/L	99
21) 2-Butanone	4.29	43	662149	42.994 ug/L	88
22) cis-1,2-Dichloroethene	4.22	96	218515	4.897 ug/L	79

Data File : VU031933.D
Acq On : 12 May 2019 10:32
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

Quant Time: May 13 07:00:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 10 03:36:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	94248	5.263	ug/L #	75
25) Chloroform	4.67	83	385965	4.292	ug/L	99
27) 1,2-Dichloroethane	5.40	62	246989	4.161	ug/L #	93
29) 1,1,1-Trichloroethane	4.91	97	310231	4.546	ug/L	96
30) Cyclohexane	4.98	56	334055	4.469	ug/L	90
31) Carbon tetrachloride	5.13	117	259804	4.470	ug/L	100
33) Benzene	5.38	78	879957	5.068	ug/L	100
34) Trichloroethene	6.18	95	216292	4.941	ug/L	92
35) Methylcyclohexane	6.41	83	331415	5.271	ug/L	87
37) 1,2-Dichloropropane	6.43	63	230646	4.642	ug/L	98
38) Bromodichloromethane	6.75	83	270975	4.578	ug/L	92
39) cis-1,3-Dichloropropene	7.27	75	308151	4.949	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1472191	44.022	ug/L #	89
42) Toluene	7.63	91	920056	5.367	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	245429	4.976	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	158965	5.399	ug/L	99
47) Tetrachloroethene	8.22	164	153676	5.399	ug/L	97
48) 2-Hexanone	8.36	43	1096002	46.112	ug/L #	91
49) Dibromochloromethane	8.47	129	172292	5.032	ug/L	99
50) 1,2-Dibromoethane	8.58	107	149081	5.564	ug/L #	96
51) Chlorobenzene	9.12	112	535682	5.256	ug/L	94
52) Ethylbenzene	9.24	91	932803	5.216	ug/L	96
53) m,p-Xylene	9.37	106	350116	5.500	ug/L	99
54) o-Xylene	9.77	106	343651	5.644	ug/L	94
55) Styrene	9.79	104	590061	5.647	ug/L	92
56) Isopropylbenzene	10.16	105	887118	5.443	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	200903	5.109	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	148358	5.044	ug/L	97
61) Bromoform	9.95	173	96107	5.180	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	384585	5.223	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	398188	5.331	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	394645	5.493	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	31428	4.653	ug/L #	67
67) 1,3,5-Trichlorobenzene	12.88	180	291095	5.203	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	224513	5.433	ug/L	99
69) Naphthalene	13.74	128	399564	5.637	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	223342	5.806	ug/L	98

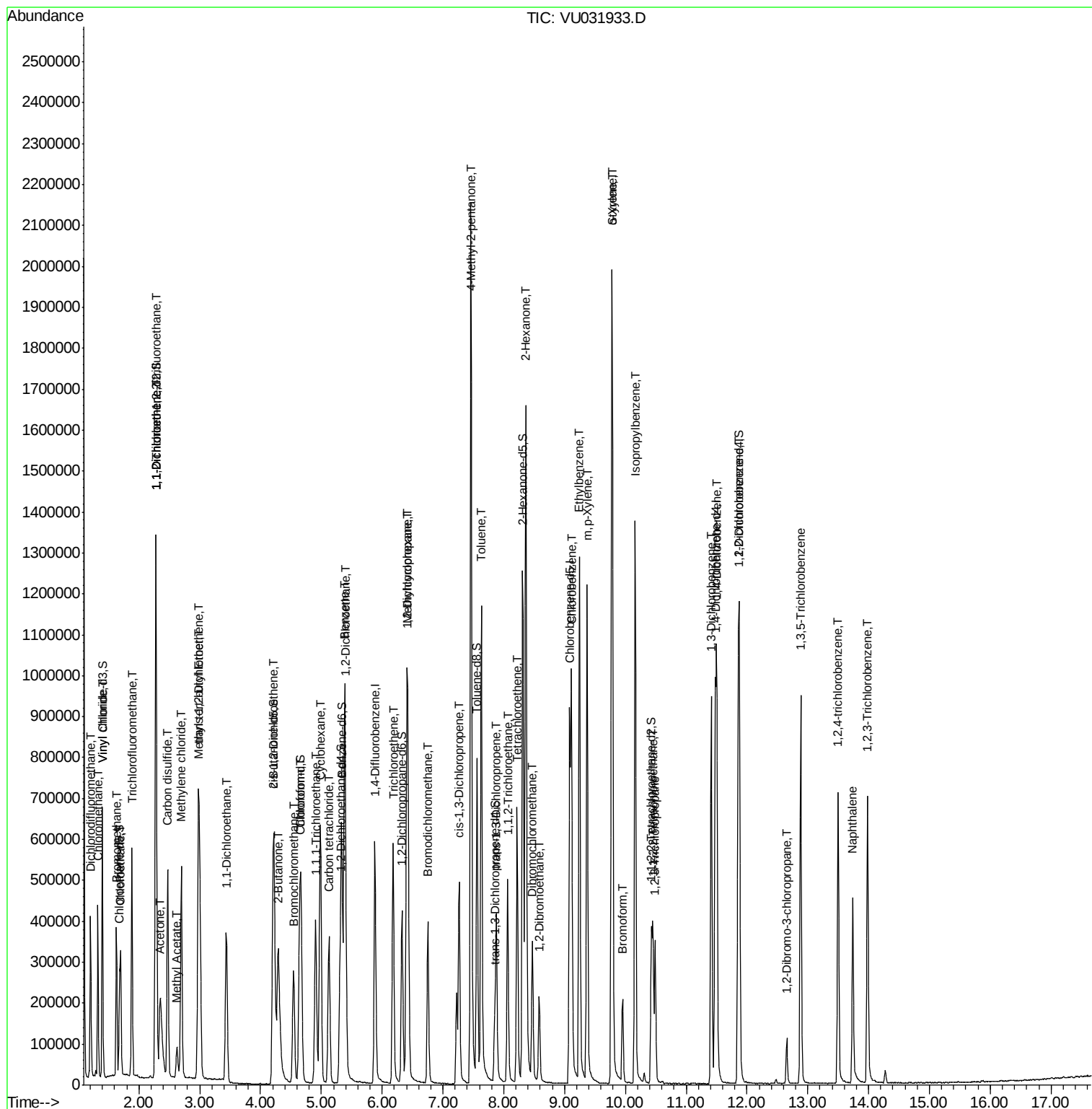
(#) = qualifier out of range (m) = manual integration (+) = signals summed

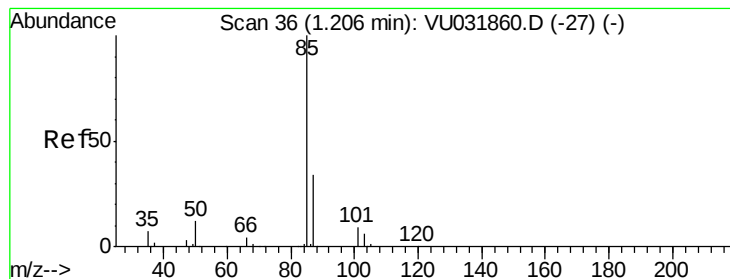
Data File : VU031933.D

```
Acq On       : 12 May 2019   10:32
Operator    : JC/SP
Sample      : VSTDCCC005
Misc       : 25.0mL/MSV0A_U/WATER
ALS Vial    : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

Quant Time: May 13 07:00:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 10 03:36:08 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.012 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

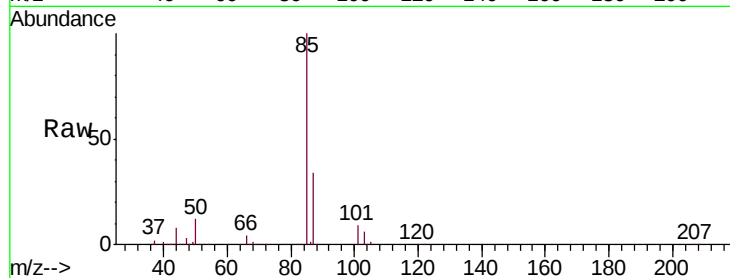
VSTD00527

Tgt Ion: 85 Resp: 234237

Ion Ratio Lower Upper

85 100

87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU031860.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031860.D (-27) (-)

1.21

250000

200000

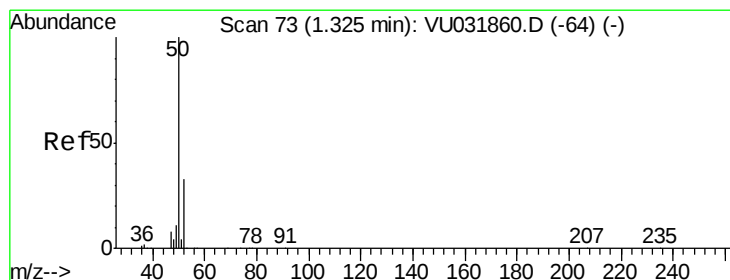
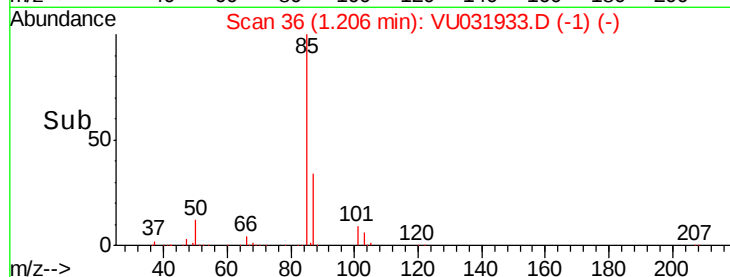
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 3.829 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031933.D

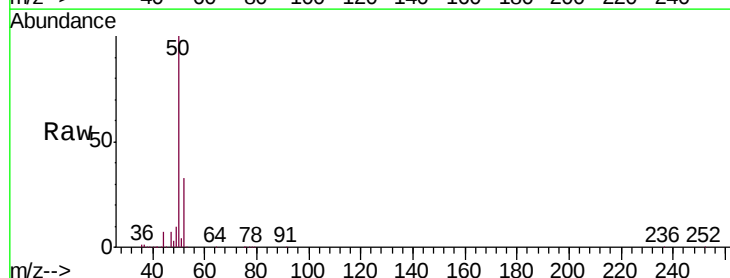
Acq: 12 May 2019 10:32

Tgt Ion: 50 Resp: 266455

Ion Ratio Lower Upper

50 100

52 33.0 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VU031860.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU031860.D (-64) (-)

1.32

300000

250000

200000

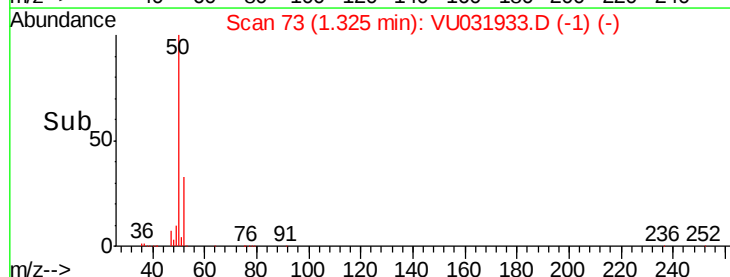
150000

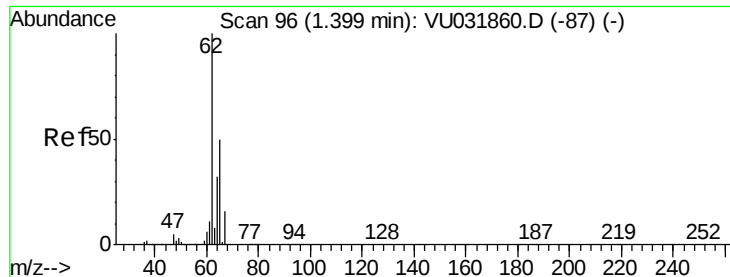
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.582 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampled :

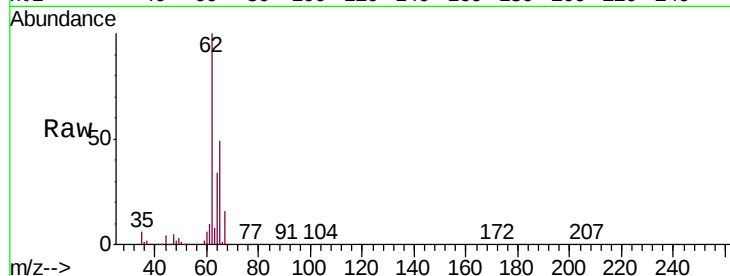
VSTD00527

Tgt Ion: 62 Resp: 278689

Ion Ratio Lower Upper

62 100

64 34.0 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU031860.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU031860.D (-87) (-)

1.40

250000

200000

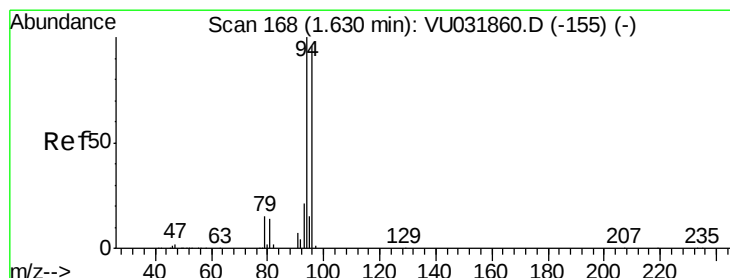
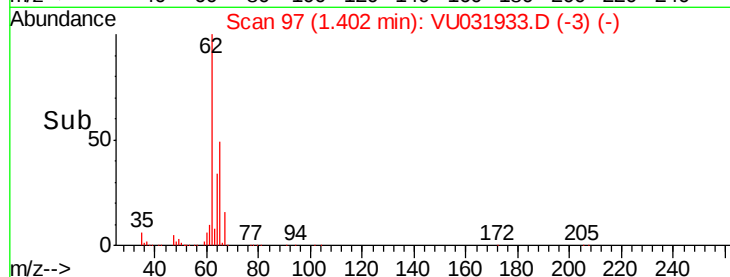
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 5.727 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031933.D

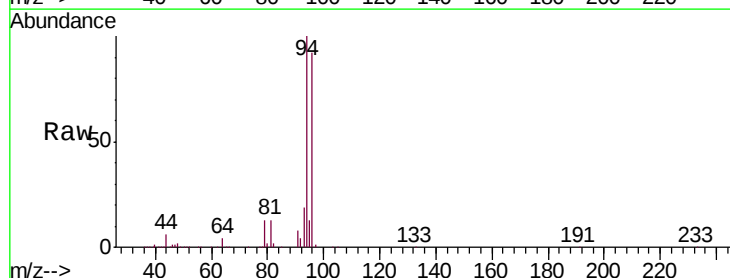
Acq: 12 May 2019 10:32

Tgt Ion: 94 Resp: 159892

Ion Ratio Lower Upper

94 100

96 91.7 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU031860.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU031860.D (-155) (-)

1.63

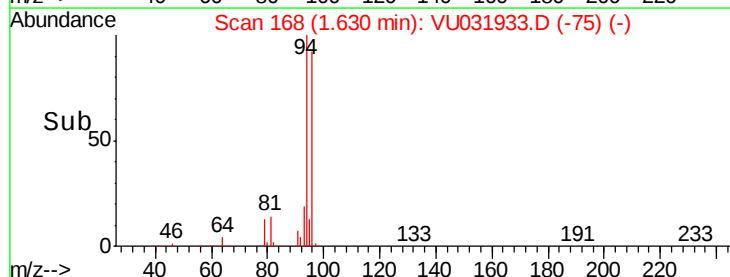
150000

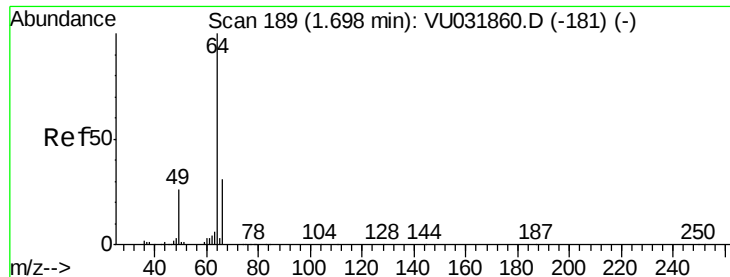
100000

50000

0

Time-->





#8

Chloroethane

Concen: 5.282 ug/L

RT: 1.70 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

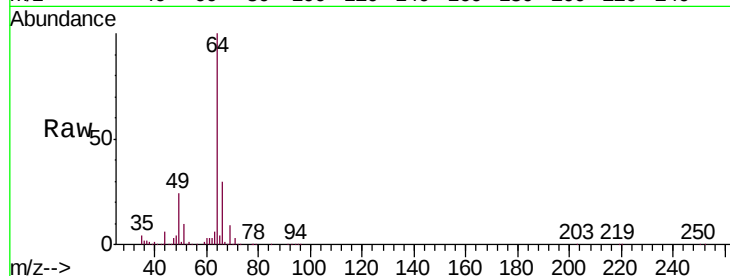
VSTD00527

Tgt Ion: 64 Resp: 176927

Ion Ratio Lower Upper

64 100

66 29.8 21.9 40.7



Abundance Ion 64.10 (63.80 to 64.80): VU031933.D (-196) (-)

Ion 66.05 (65.75 to 66.75): VU031933.D (-196) (-)

1.70

150000

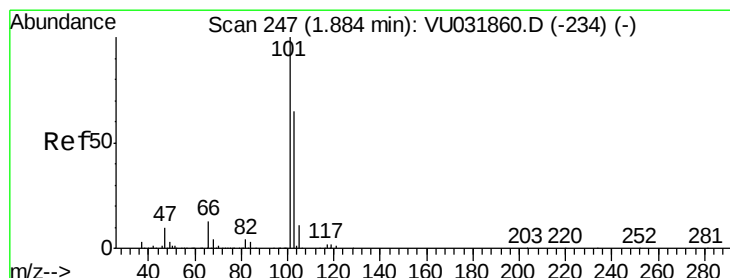
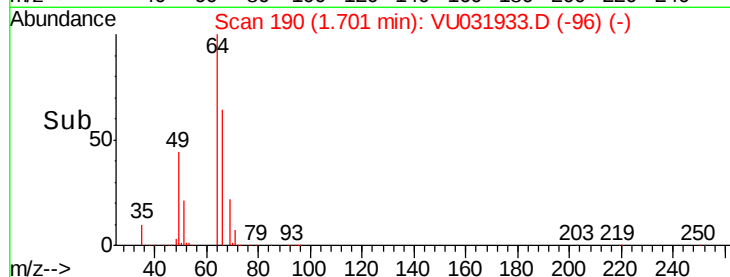
100000

50000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 4.753 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU031933.D

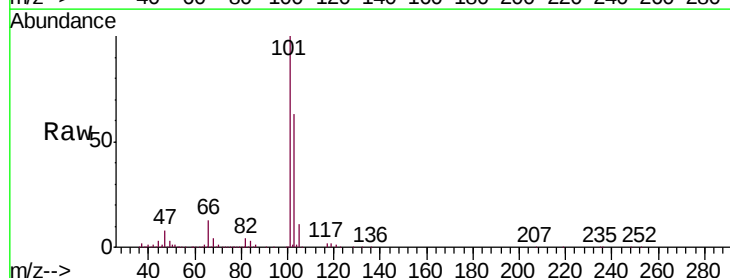
Acq: 12 May 2019 10:32

Tgt Ion: 101 Resp: 334306

Ion Ratio Lower Upper

101 100

103 63.5 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU031933.D (-154) (-)

Ion 103.00 (102.70 to 103.70): VU031933.D (-154) (-)

1.88

250000

200000

150000

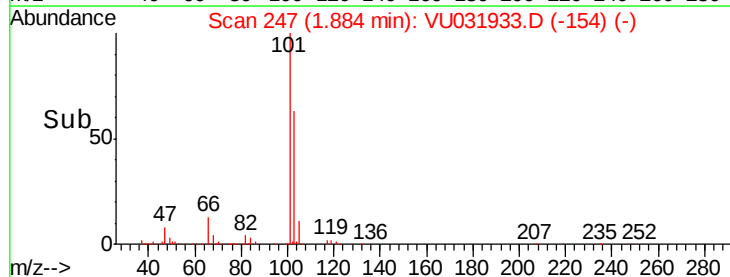
100000

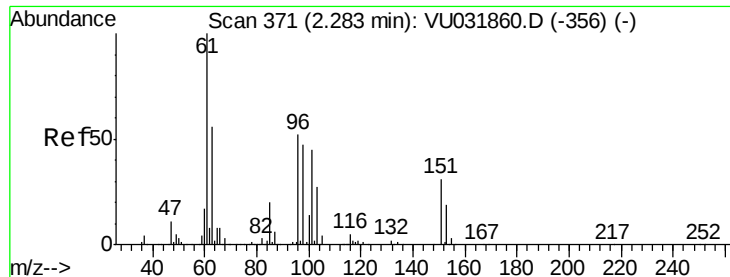
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 5.578 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00527

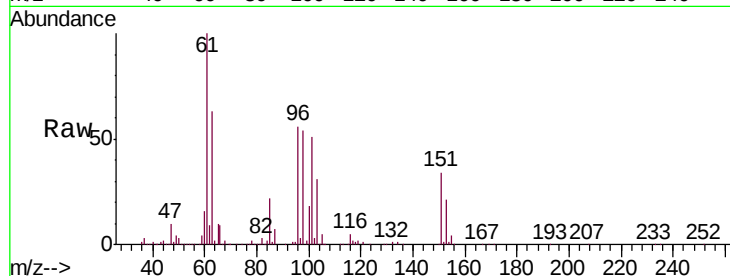
Tgt Ion: 101 Resp: 204177

Ion Ratio Lower Upper

101 100

85 43.4 40.0 60.0

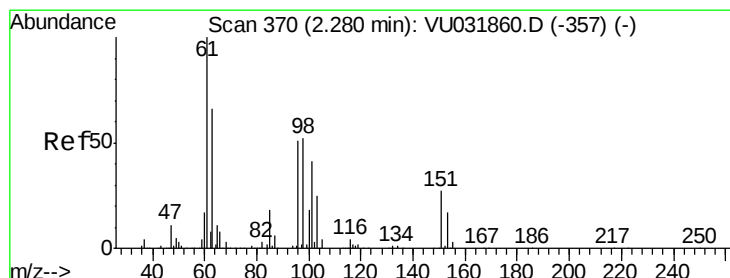
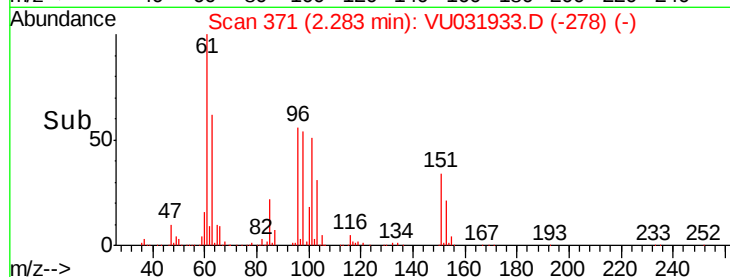
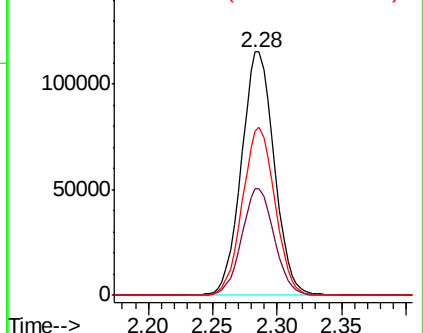
151 68.7 54.6 82.0



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: 5.670 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

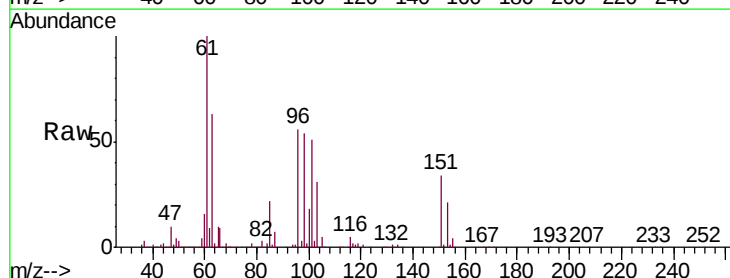
Tgt Ion: 96 Resp: 195458

Ion Ratio Lower Upper

96 100

61 177.1 149.0 276.6

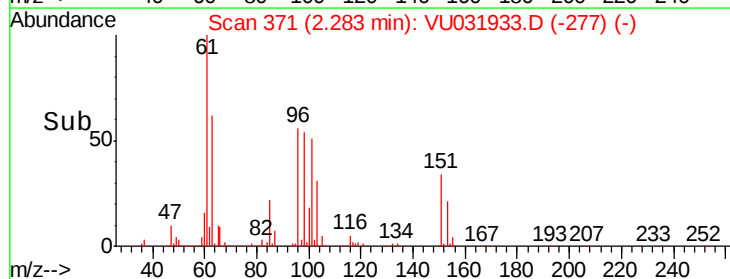
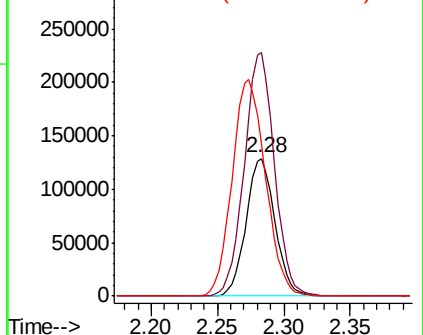
63 110.8 99.8 185.4

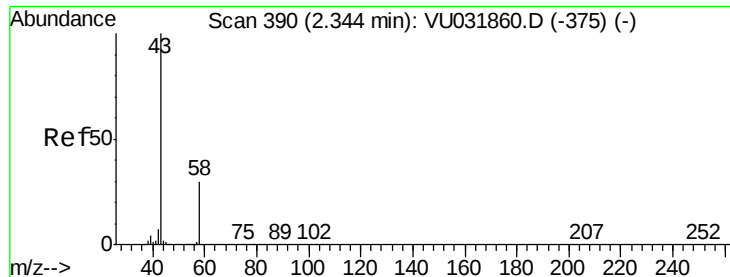


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 46.497 ug/L

RT: 2.35 min Scan# 392

Delta R.T. 0.01 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

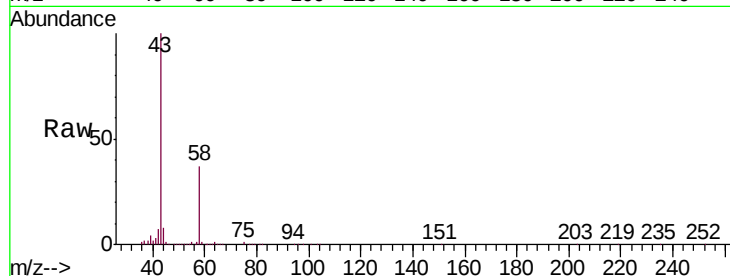
VSTD00527

Tgt Ion: 43 Resp: 428520

Ion Ratio Lower Upper

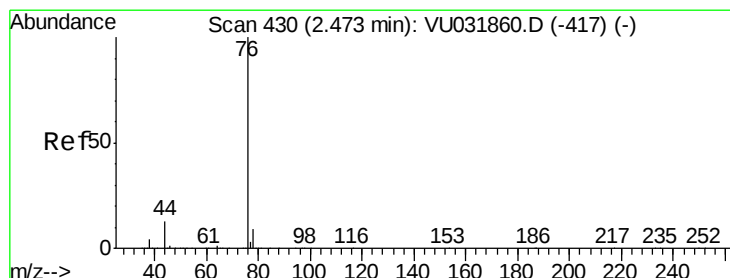
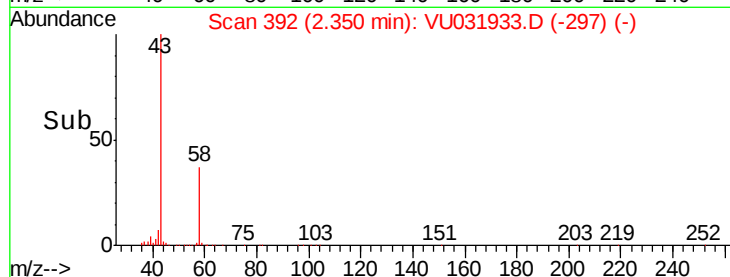
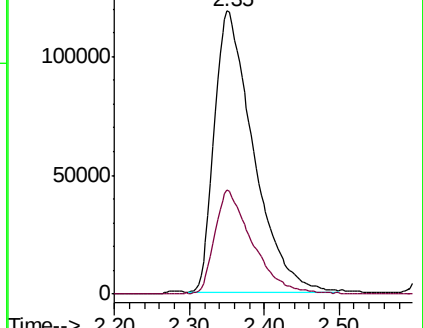
43 100

58 34.8 0.0 53.6



Abundance Ion 43.05 (42.75 to 43.75): VU031860.D (-375) (-)

Ion 58.05 (57.75 to 58.75): VU031860.D (-375) (-)



#14

Carbon disulfide

Concen: 5.170 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU031933.D

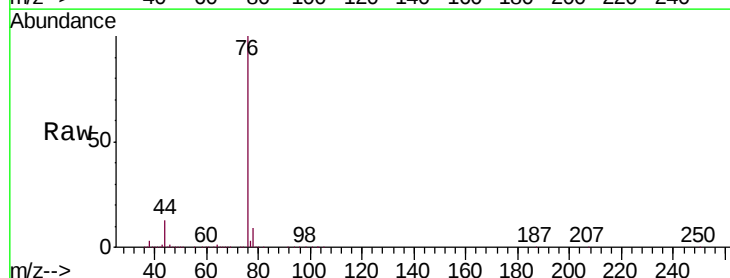
Acq: 12 May 2019 10:32

Tgt Ion: 76 Resp: 627304

Ion Ratio Lower Upper

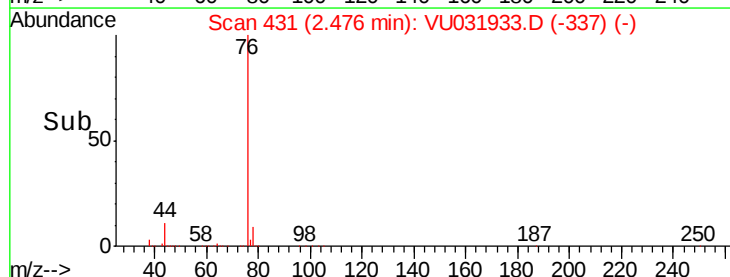
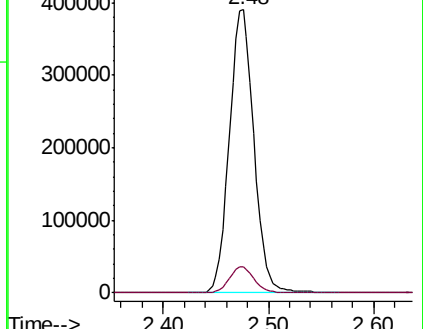
76 100

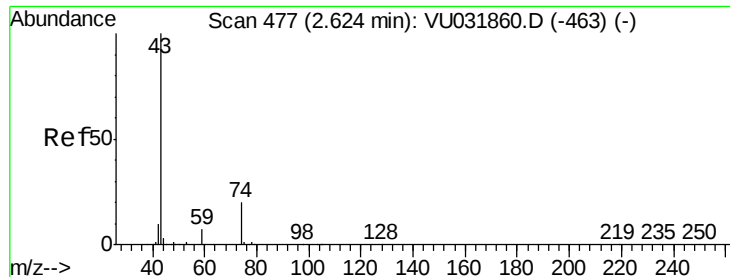
78 9.3 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU031860.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031860.D (-417) (-)

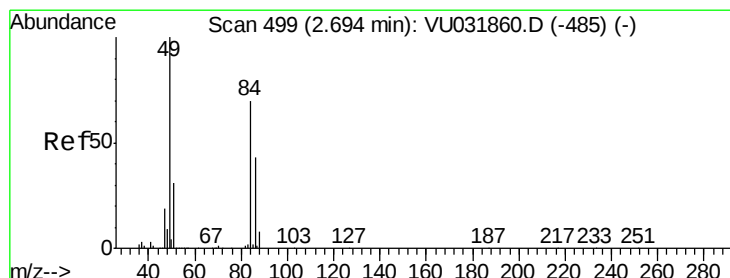
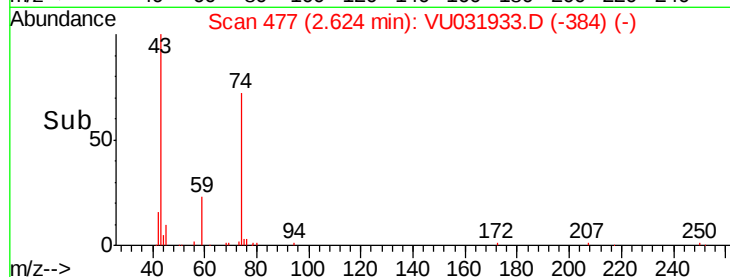
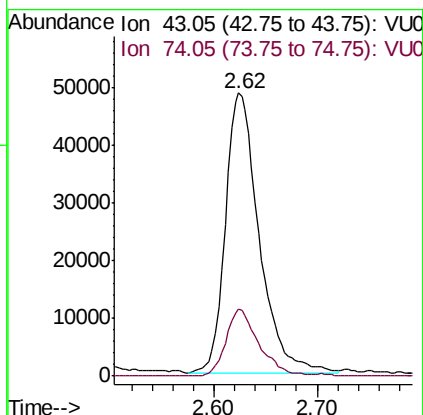
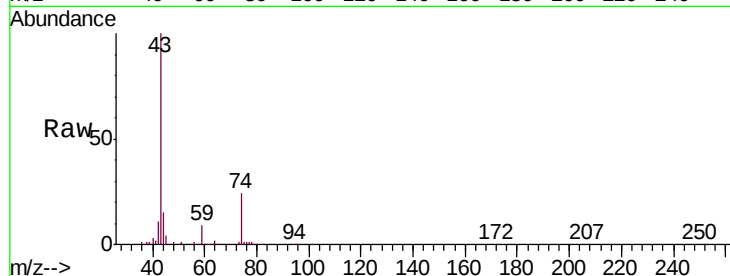




#15
Methyl Acetate
Concen: 4.656 ug/L
RT: 2.62 min Scan# 477
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

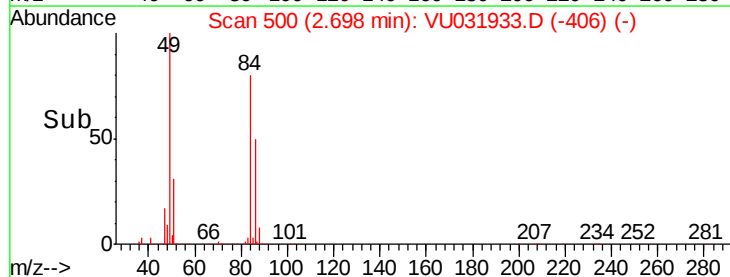
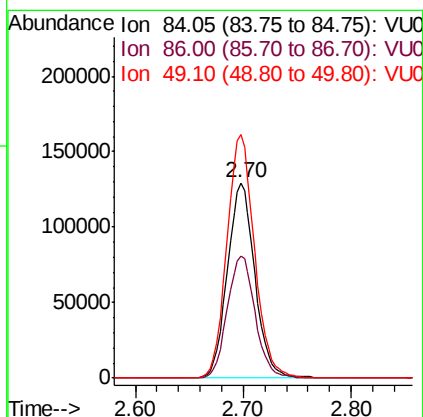
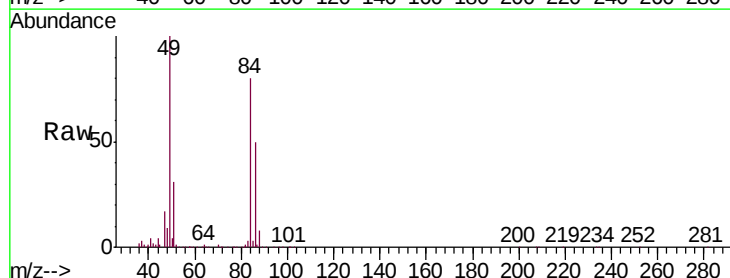
Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

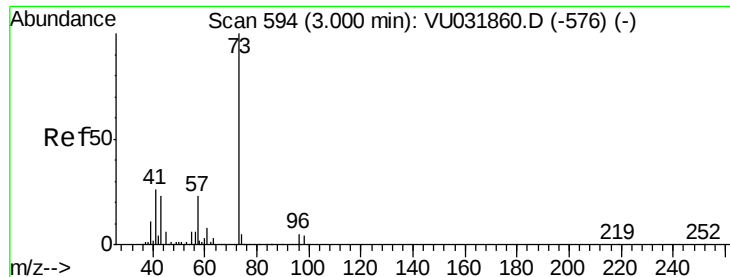
Tgt Ion: 43 Resp: 110709
Ion Ratio Lower Upper
43 100
74 23.3 14.7 22.1#



#16
Methylene chloride
Concen: 4.799 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

Tgt Ion: 84 Resp: 229530
Ion Ratio Lower Upper
84 100
86 62.8 45.6 84.8
49 124.8 106.7 198.1





#17

Methyl tert-butyl Ether

Concen: 5.346 ug/L

RT: 3.00 min Scan# 594

Delta R.T. -0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00527

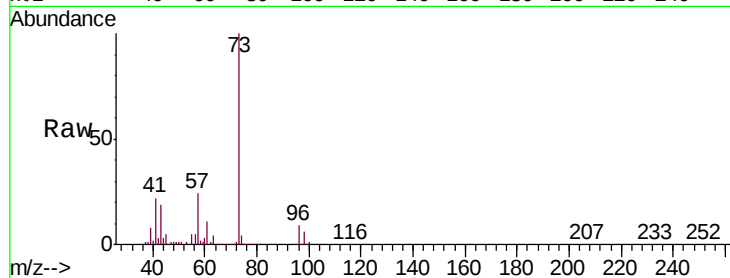
Tgt Ion: 73 Resp: 548964

Ion Ratio Lower Upper

73 100

43 18.3 20.5 30.7#

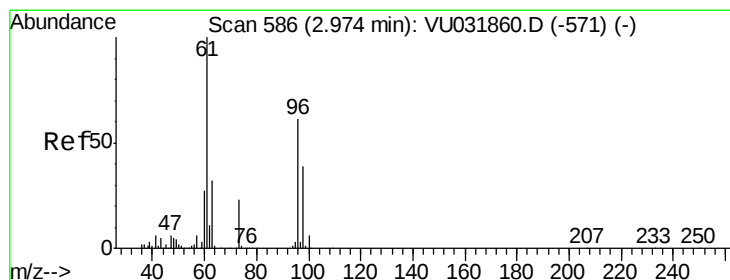
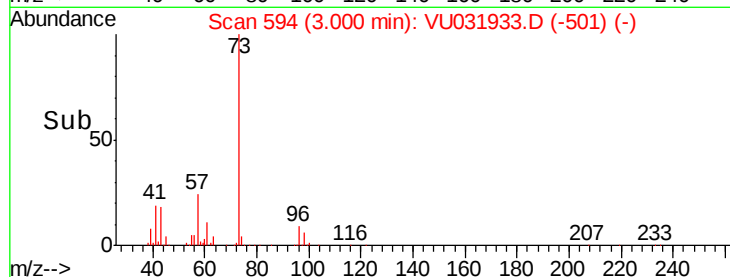
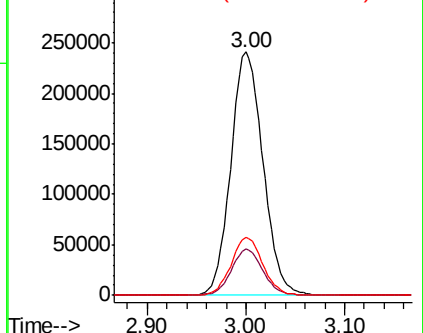
57 23.4 19.9 29.9



Abundance Ion 73.10 (72.80 to 73.80): VU031860.D (-576) (-)

Ion 43.05 (42.75 to 43.75): VU031860.D (-576) (-)

Ion 57.10 (56.80 to 57.80): VU031860.D (-576) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.650 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

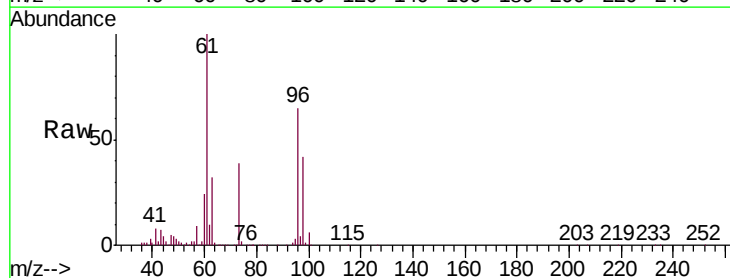
Tgt Ion: 96 Resp: 209908

Ion Ratio Lower Upper

96 100

61 154.9 130.9 243.1

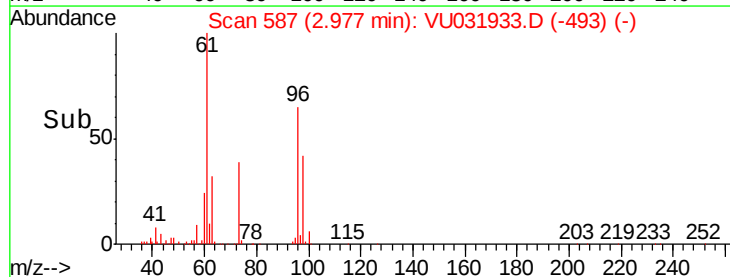
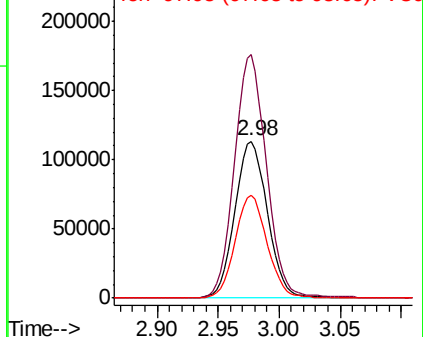
98 65.6 46.2 85.8

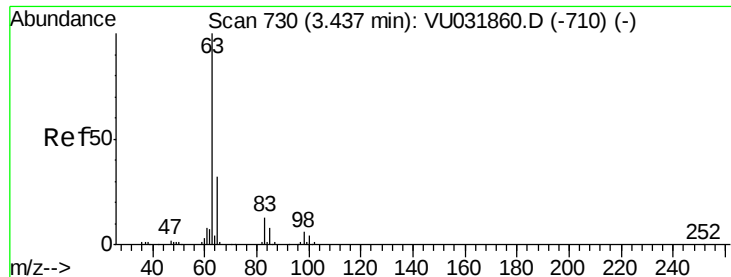


Abundance Ion 96.00 (95.70 to 96.70): VU031860.D (-571) (-)

Ion 61.05 (60.75 to 61.75): VU031860.D (-571) (-)

Ion 97.95 (97.65 to 98.65): VU031860.D (-571) (-)

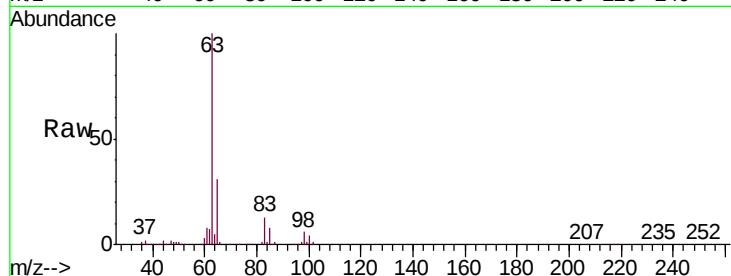




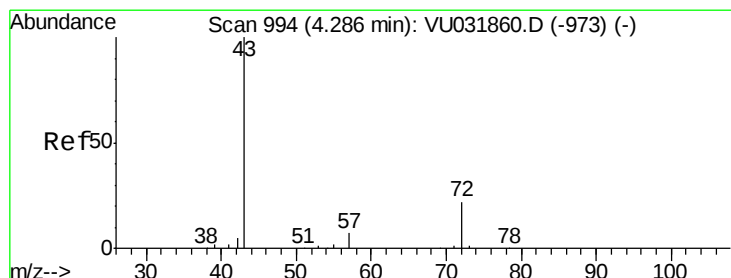
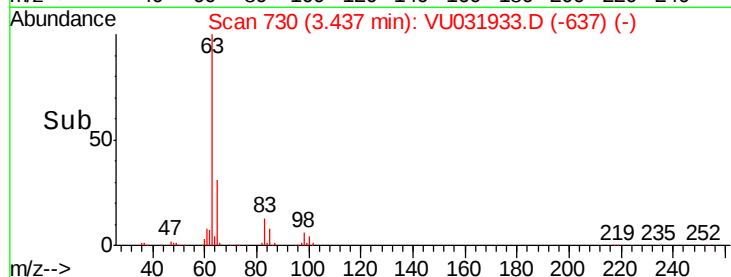
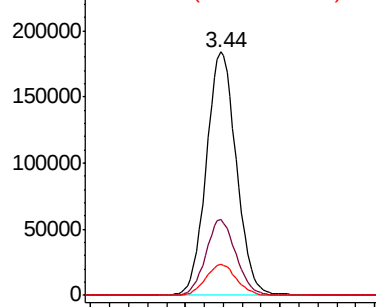
#19
 1,1-Dichloroethane
 Concen: 4.449 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

Tgt Ion:	63	Resp:	406540
Ion	Ratio	Lower	Upper
63	100		
65	31.0	21.8	40.4
83	12.6	7.9	14.7

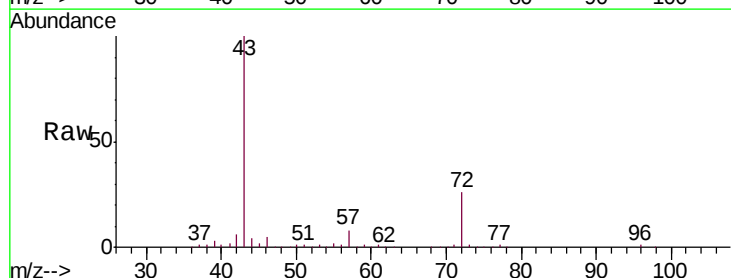


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

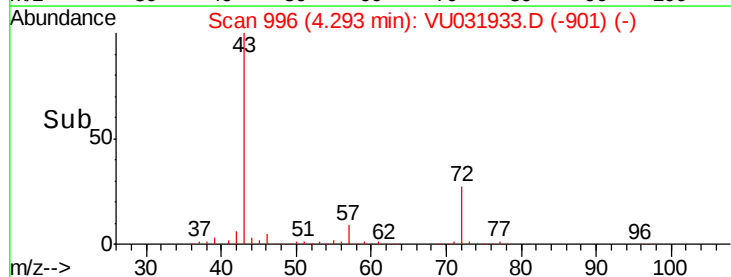
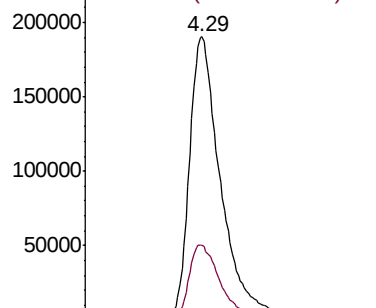


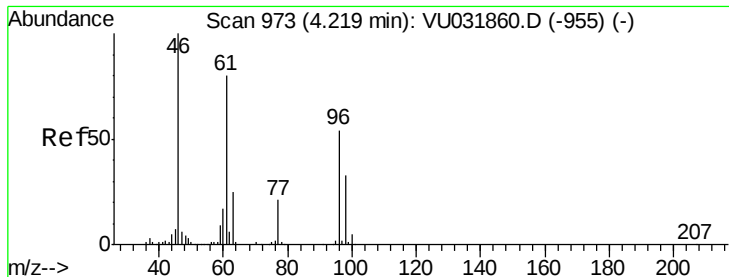
#21
 2-Butanone
 Concen: 42.994 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.01 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion:	43	Resp:	662149
Ion	Ratio	Lower	Upper
43	100		
72	26.4	10.4	31.1



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



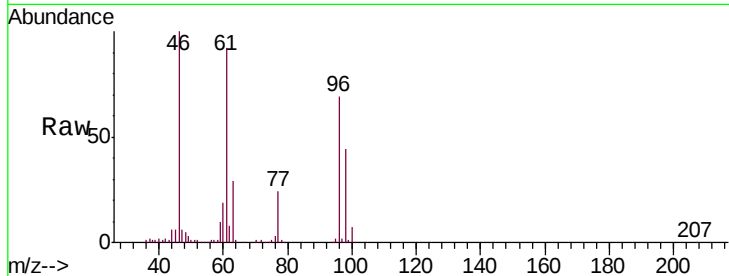


#22

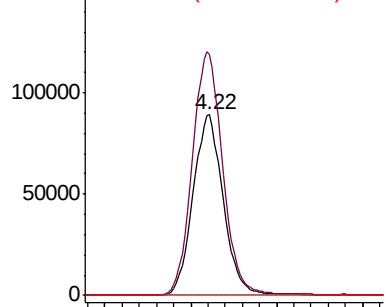
cis-1,2-Dichloroethene
Concen: 4.897 ug/L
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

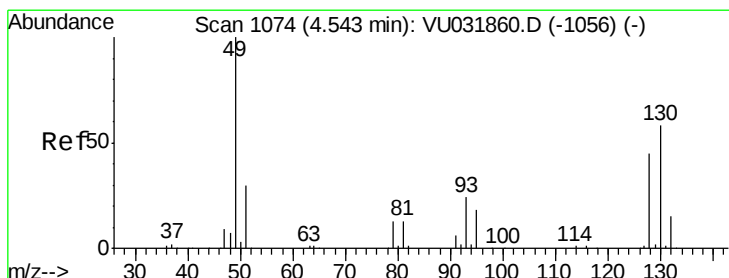
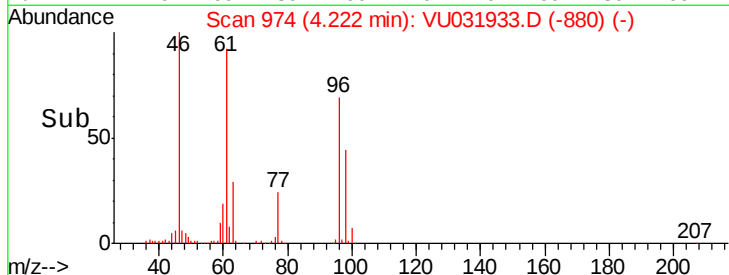
Tgt Ion: 96 Resp: 218515
Ion Ratio Lower Upper
96 100
61 133.4 113.3 210.5
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



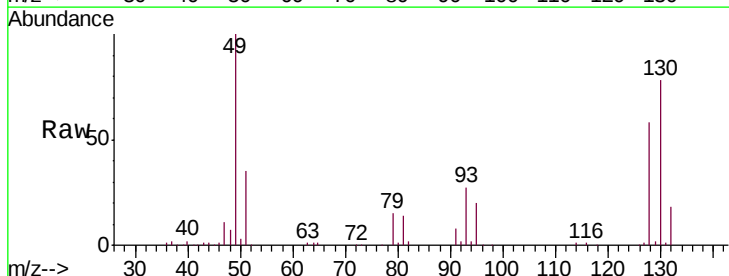
Time-->



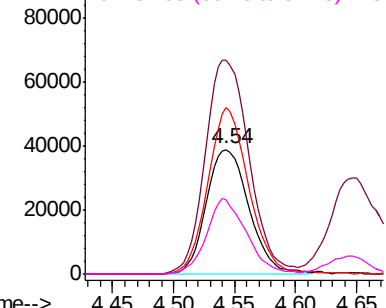
#23

Bromochloromethane
Concen: 5.263 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

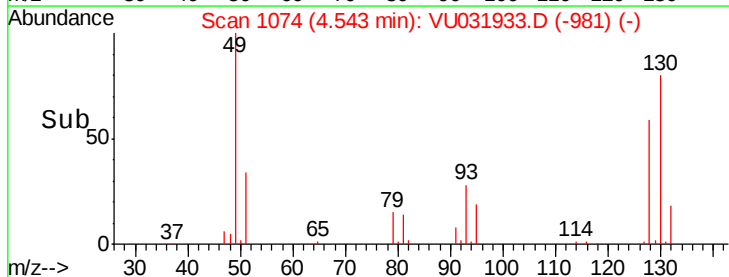
Tgt Ion: 128 Resp: 94248
Ion Ratio Lower Upper
128 100
49 172.0 168.8 313.4
130 134.4 93.0 172.8
51 59.4 61.3 91.9#

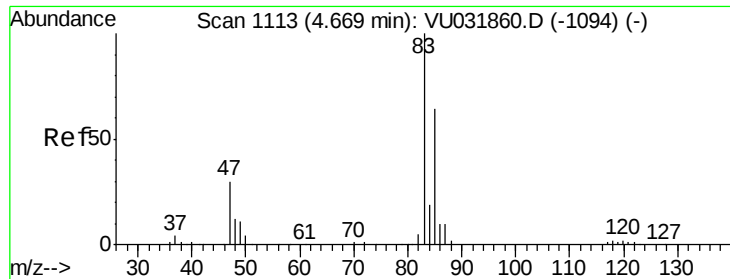


Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0



Time-->

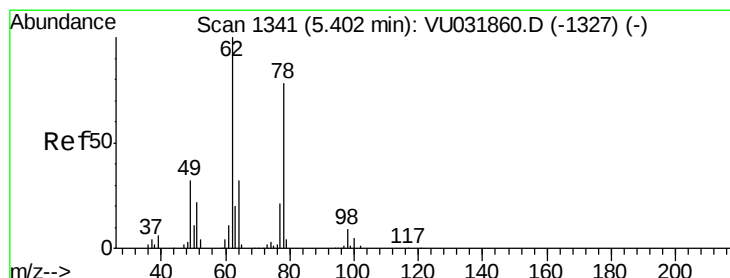
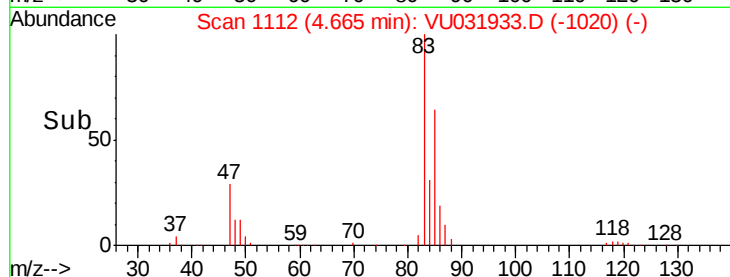
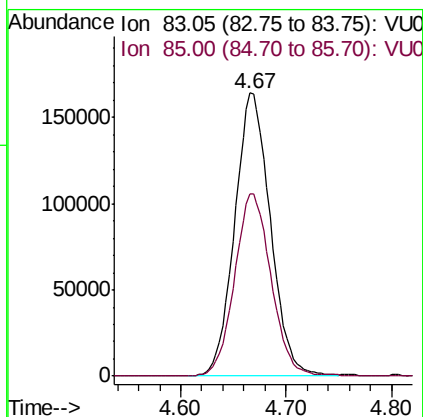
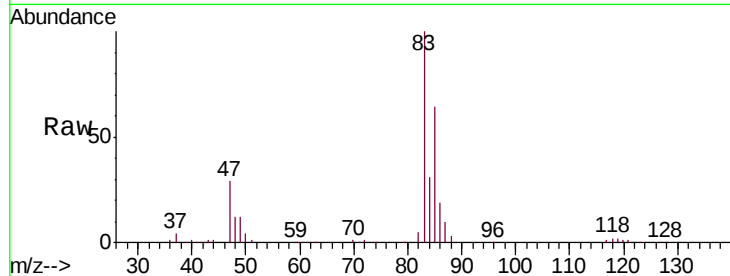




#25
Chloroform
Concen: 4.292 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

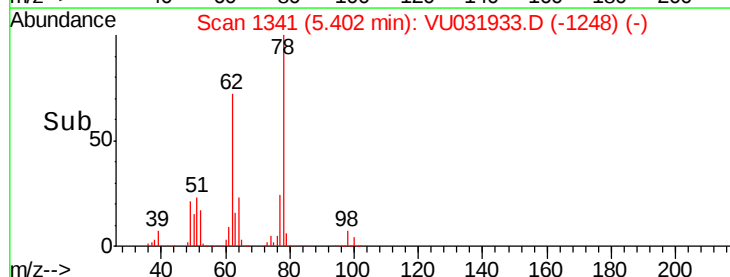
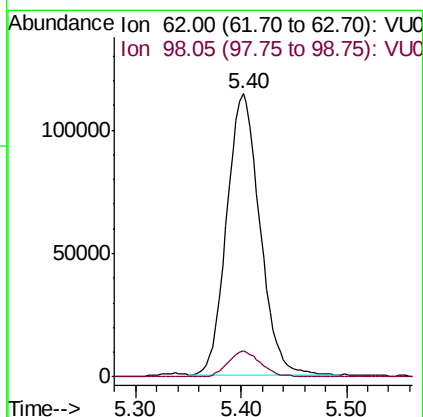
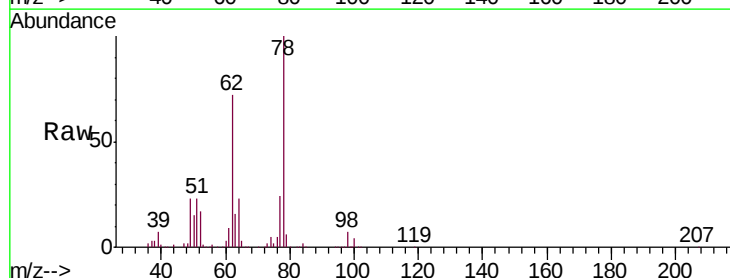
Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

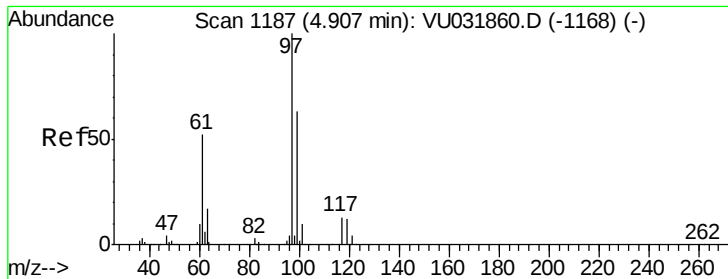
Tgt Ion: 83 Resp: 385965
Ion Ratio Lower Upper
83 100
85 64.3 44.4 82.5



#27
1,2-Dichloroethane
Concen: 4.161 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

Tgt Ion: 62 Resp: 246989
Ion Ratio Lower Upper
62 100
98 9.3 5.4 8.2#

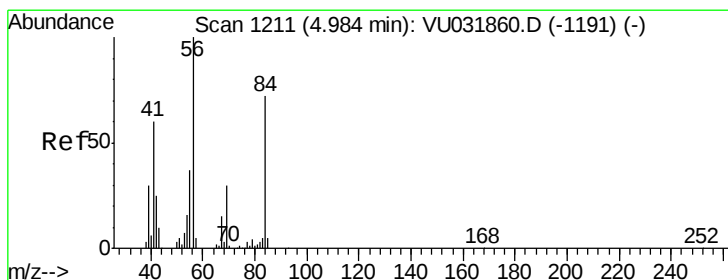
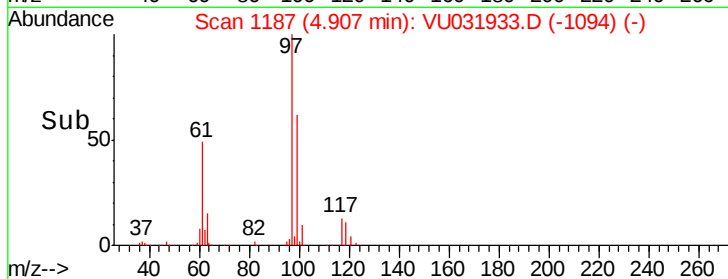
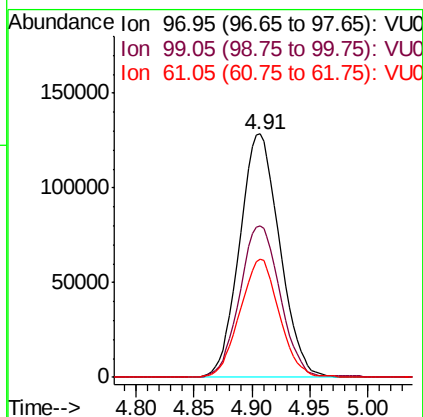
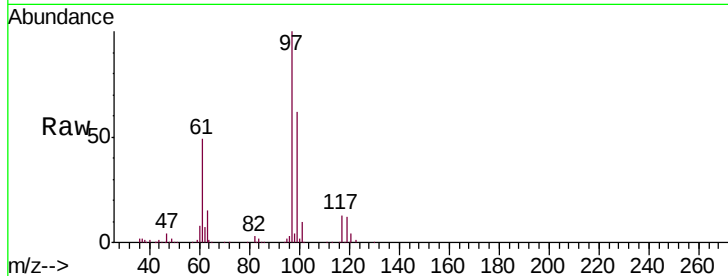




#29
 1,1,1-Trichloroethane
 Concen: 4.546 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

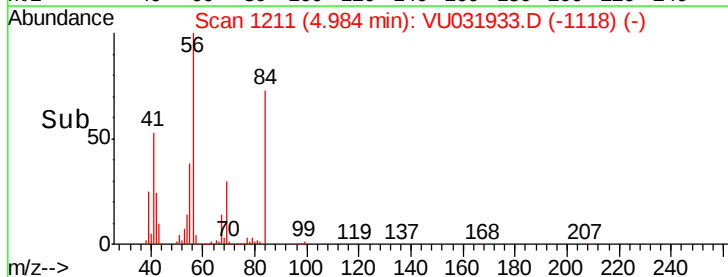
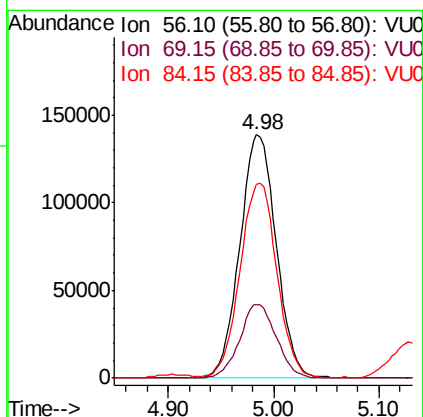
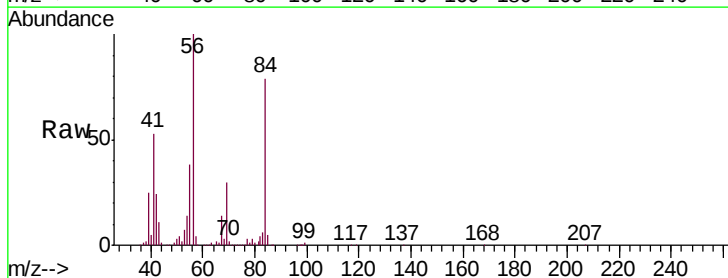
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

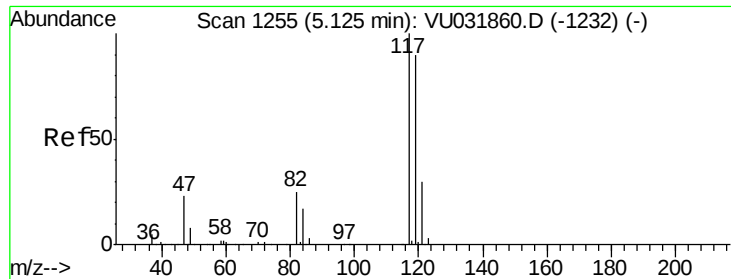
Tgt Ion: 97 Resp: 310231
 Ion Ratio Lower Upper
 97 100
 99 62.7 50.6 75.8
 61 47.2 42.2 63.2



#30
 Cyclohexane
 Concen: 4.469 ug/L
 RT: 4.98 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion: 56 Resp: 334055
 Ion Ratio Lower Upper
 56 100
 69 30.3 21.8 32.8
 84 80.6 56.8 85.2





#31

Carbon tetrachloride

Concen: 4.470 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

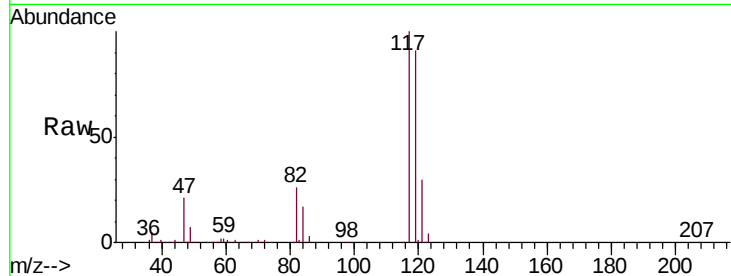
VSTD00527

Tgt Ion:117 Resp: 259804

Ion Ratio Lower Upper

117 100

119 95.6 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

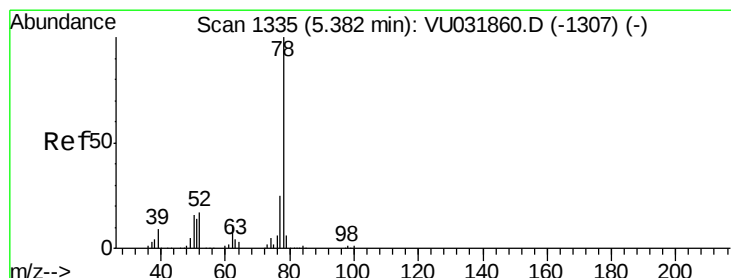
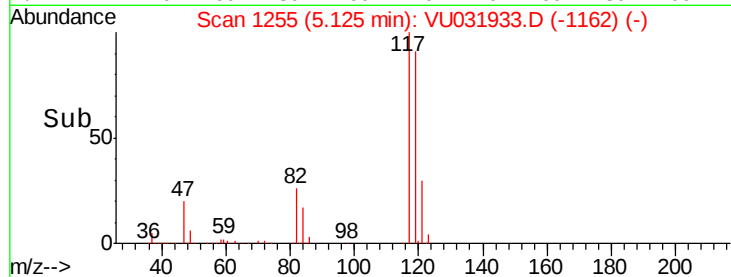
5.13

100000

50000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 5.068 ug/L

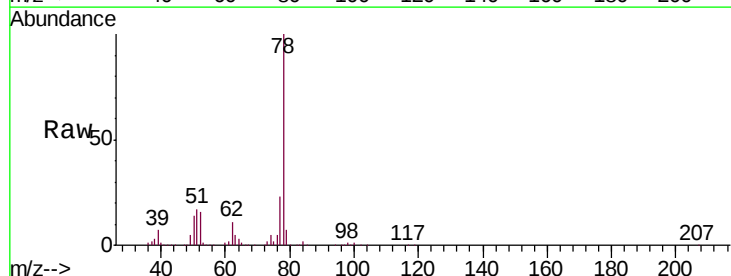
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Tgt Ion: 78 Resp: 879957



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.38

400000

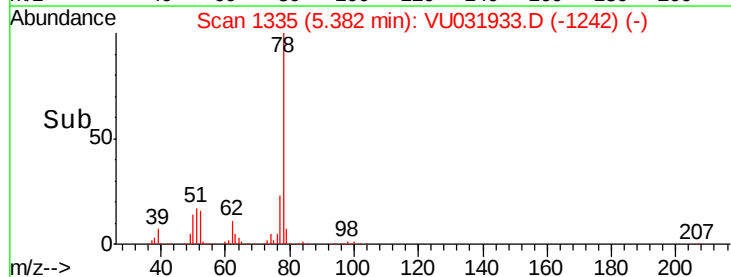
300000

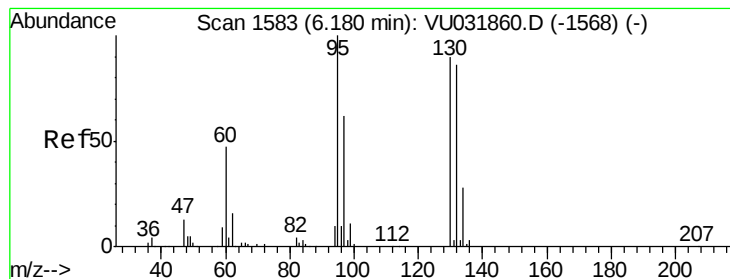
200000

100000

0

Time--> 5.20 5.30 5.40 5.50





#34

Trichloroethene

Concen: 4.941 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00527

Tgt Ion: 95 Resp: 216292

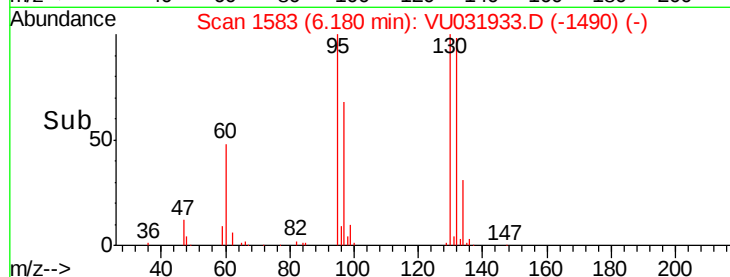
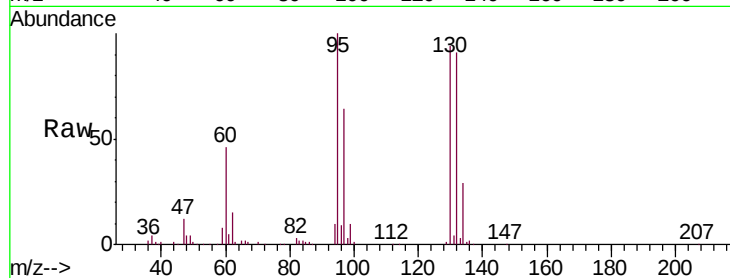
Ion Ratio Lower Upper

95 100

97 63.6 45.8 85.2

132 91.3 56.0 104.0

130 93.6 60.4 112.2

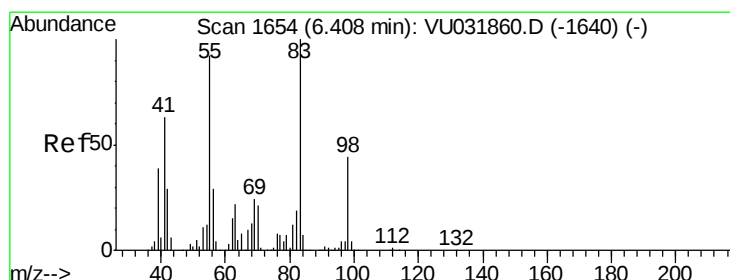
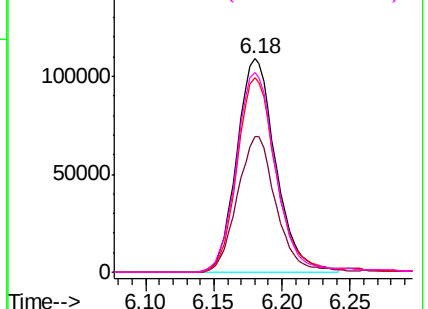


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.271 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

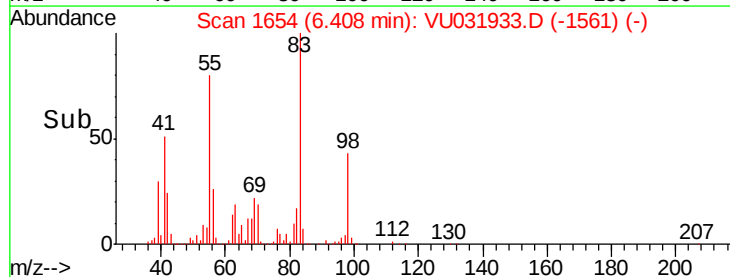
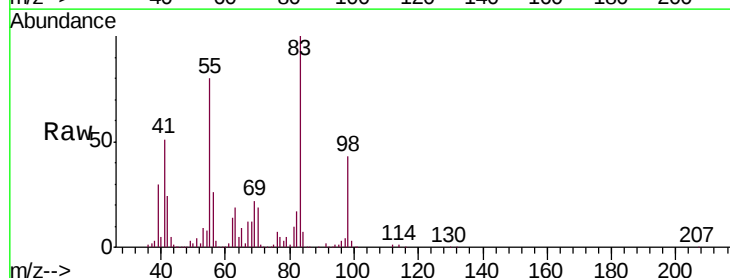
Tgt Ion: 83 Resp: 331415

Ion Ratio Lower Upper

83 100

55 81.9 79.2 118.8

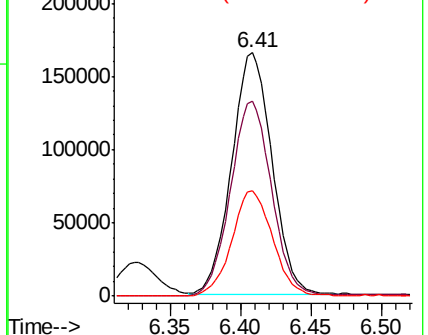
98 44.2 34.0 51.0

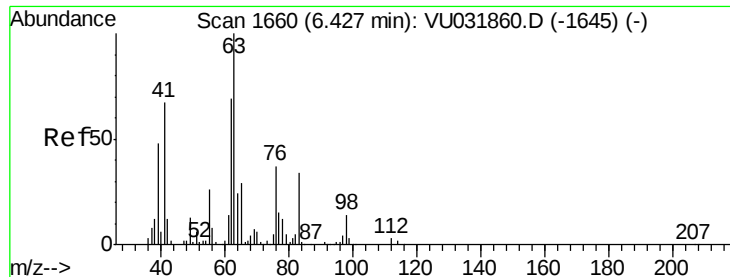


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.642 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

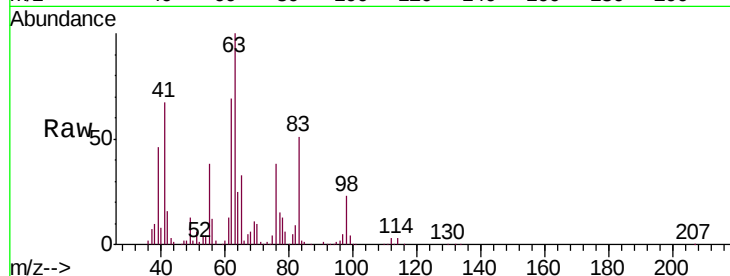
VSTD00527

Tgt Ion: 63 Resp: 230646

Ion Ratio Lower Upper

63 100

112 3.7 2.5 3.7



Abundance Ion 63.10 (62.80 to 63.80): VU031860.D (-1645) (-)

Ion 112.10 (111.80 to 112.80): VU031860.D (-1645) (-)

6.43

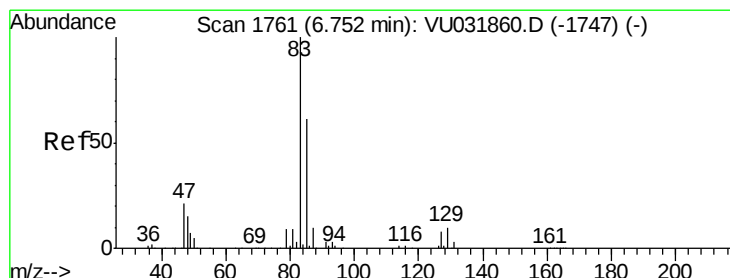
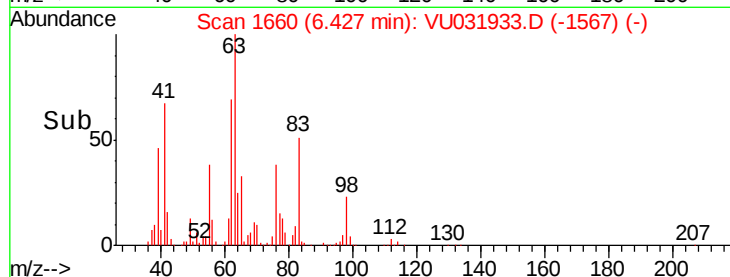
100000

50000

0

6.40 6.50

Time-->



#38

Bromodichloromethane

Concen: 4.578 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

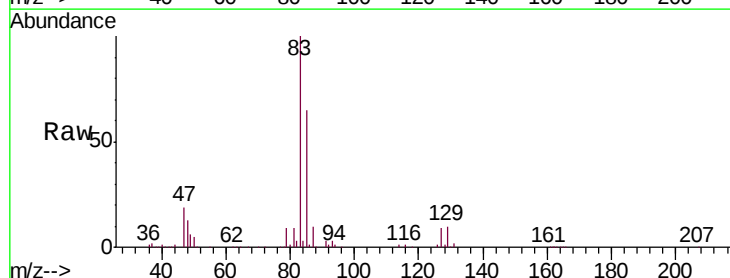
Tgt Ion: 83 Resp: 270975

Ion Ratio Lower Upper

83 100

85 65.5 41.3 76.7

127 8.5 5.8 8.6



Abundance Ion 82.95 (82.65 to 83.65): VU031860.D (-1747) (-)

Ion 85.00 (84.70 to 85.70): VU031860.D (-1747) (-)

Ion 126.90 (126.60 to 127.60): VU031860.D (-1747) (-)

6.75

150000

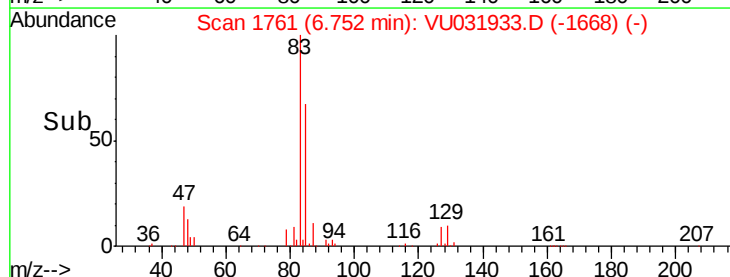
100000

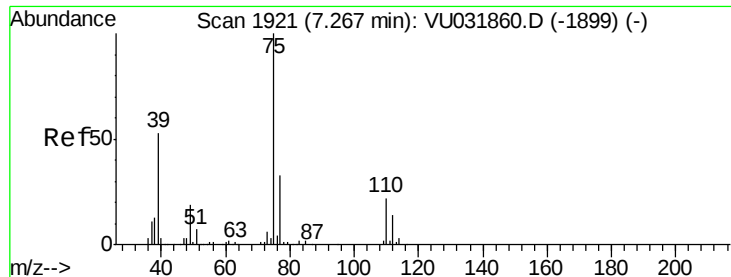
50000

0

6.65 6.70 6.75 6.80 6.85

Time-->

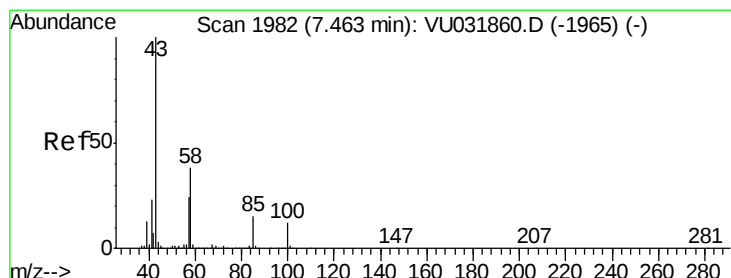
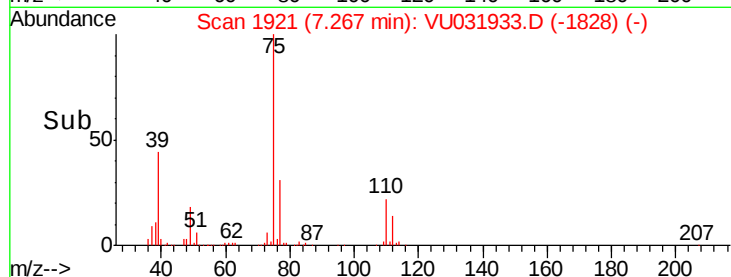
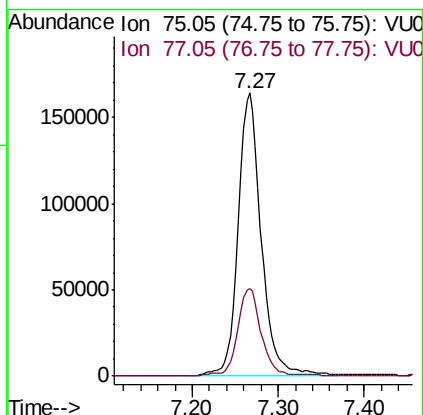
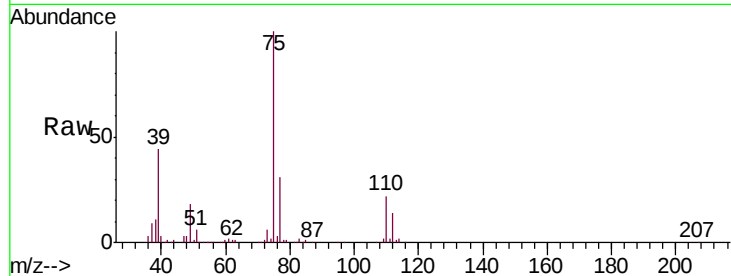




#39
 cis-1,3-Dichloropropene
 Concen: 4.949 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

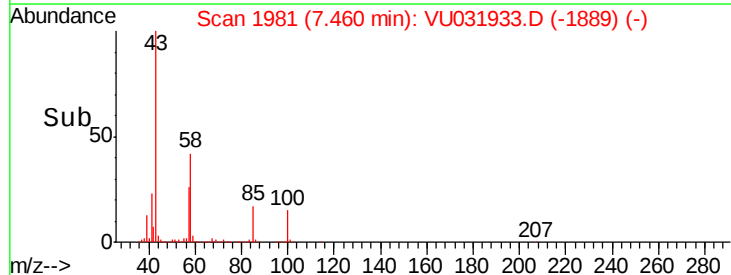
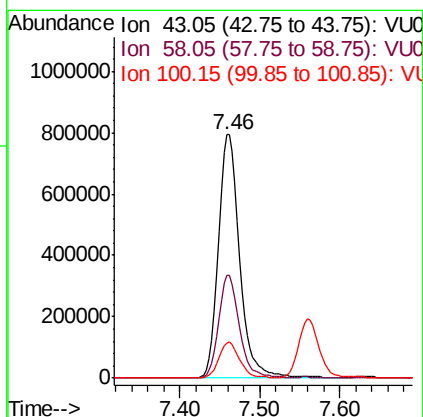
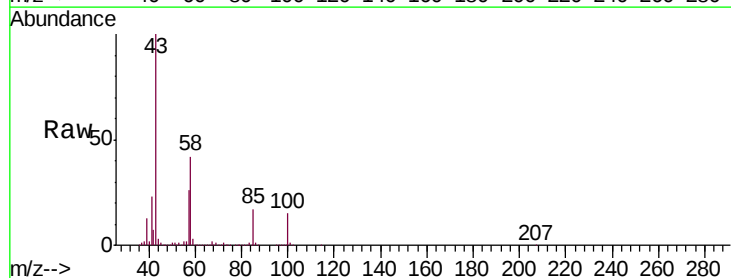
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

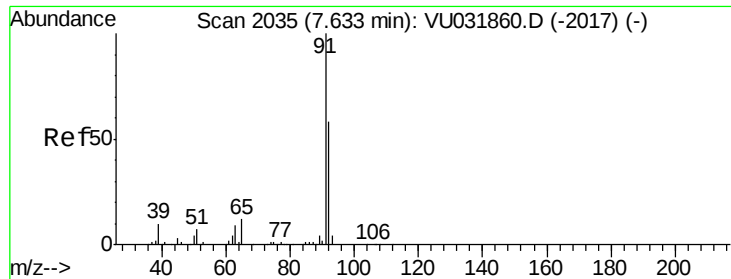
Tgt Ion: 75 Resp: 308151
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 44.022 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion: 43 Resp: 1472191
 Ion Ratio Lower Upper
 43 100
 58 41.1 28.0 42.0
 100 14.5 8.2 12.4#





#42

Toluene

Concen: 5.367 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampled :

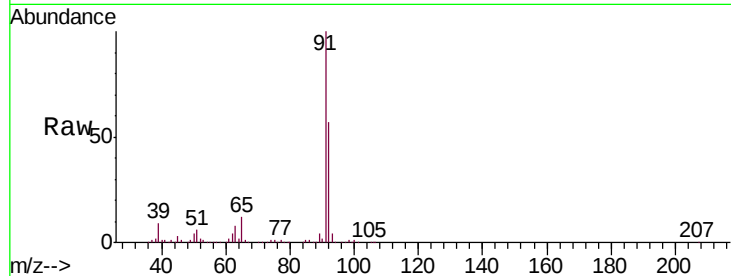
VSTD00527

Tgt Ion: 91 Resp: 920056

Ion Ratio Lower Upper

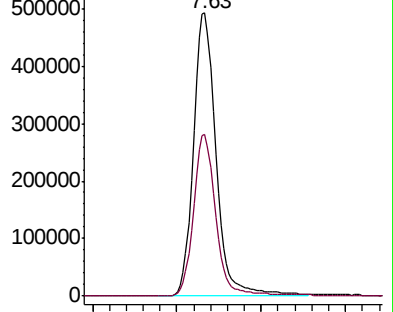
91 100

92 57.4 38.1 70.9

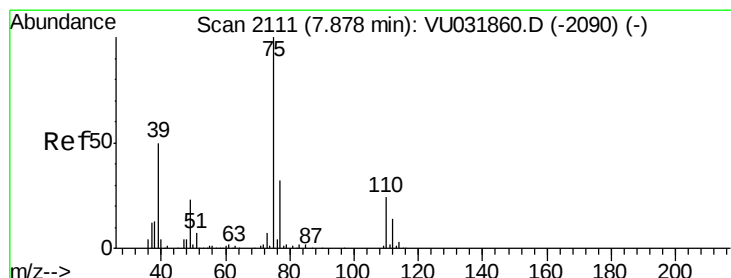
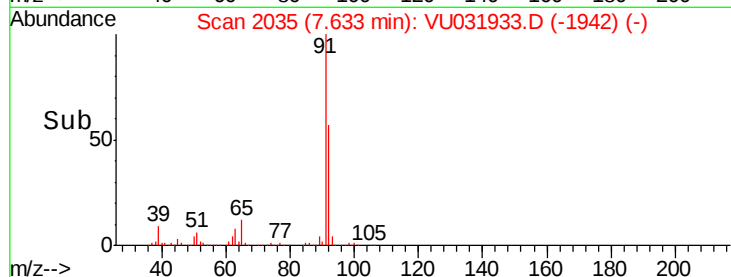


Abundance Ion 91.15 (90.85 to 91.85): VU031860.D (-2017) (-)

Ion 92.15 (91.85 to 92.85): VU031860.D (-2017) (-)



Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.976 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU031933.D

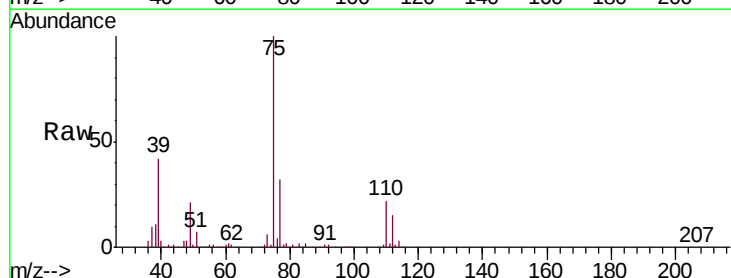
Acq: 12 May 2019 10:32

Tgt Ion: 75 Resp: 245429

Ion Ratio Lower Upper

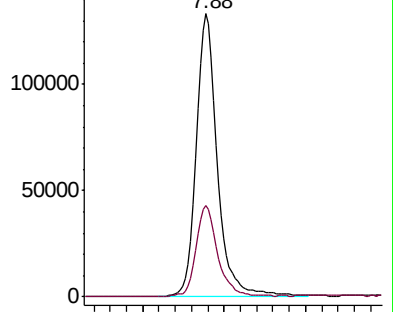
75 100

77 32.2 22.3 41.3

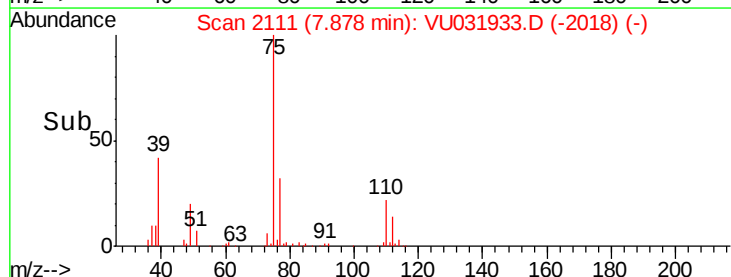


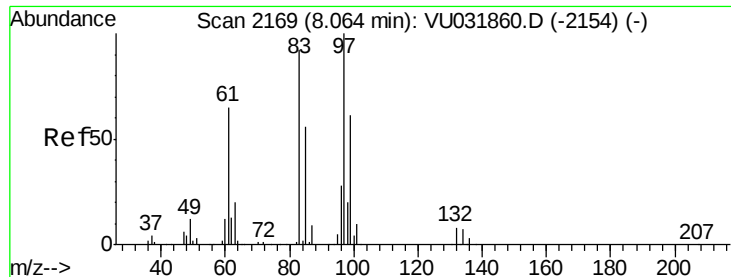
Abundance Ion 75.05 (74.75 to 75.75): VU031860.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU031860.D (-2090) (-)



Time-->

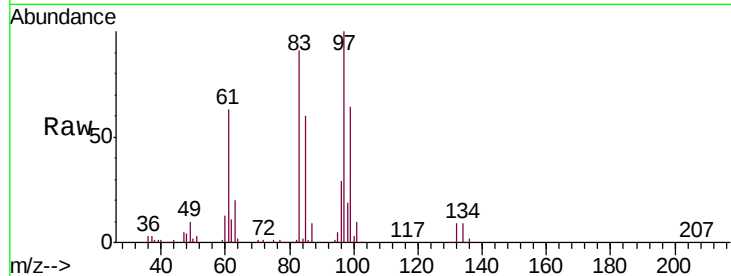




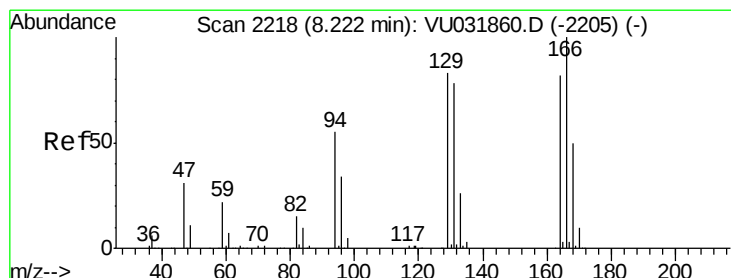
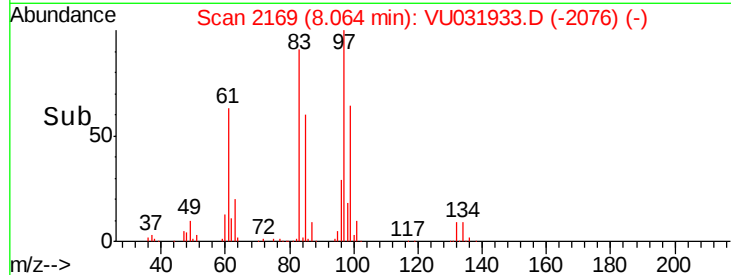
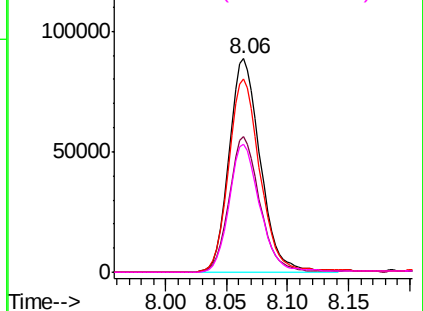
#45
 1,1,2-Trichloroethane
 Concen: 5.399 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

Tgt Ion:	97	Resp:	158965
Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.8	85.0
83	90.7	64.5	119.7
85	60.1	41.6	77.3

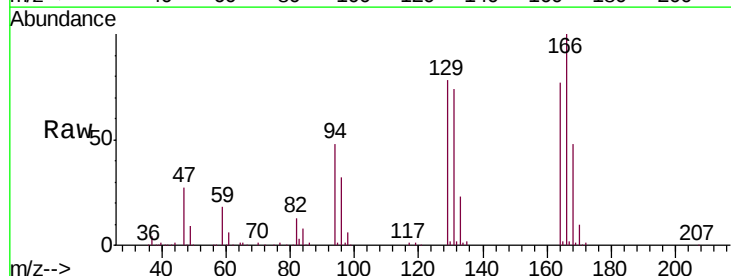


Abundance Ion 96.95 (96.65 to 97.65): VU031860.D (-2154) (-)
 Ion 99.05 (98.75 to 99.75): VU031860.D (-2154) (-)
 Ion 82.95 (82.65 to 83.65): VU031860.D (-2154) (-)
 Ion 85.00 (84.70 to 85.70): VU031860.D (-2154) (-)

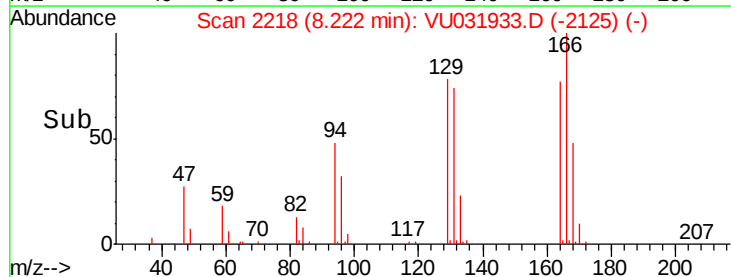
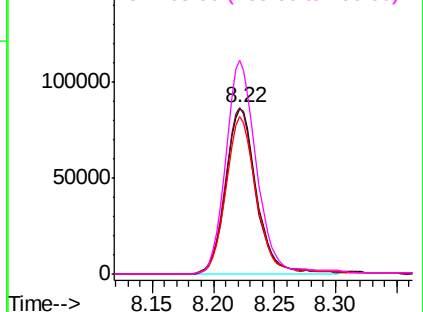


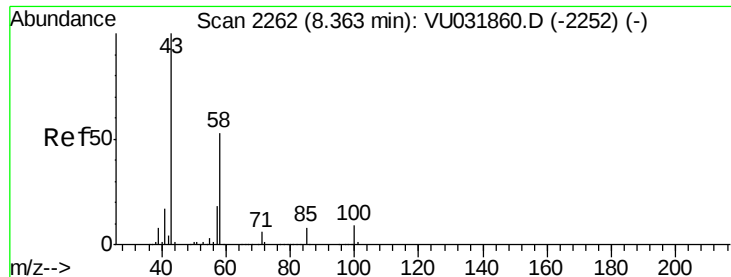
#47
 Tetrachloroethene
 Concen: 5.399 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion:	164	Resp:	153676
Ion	Ratio	Lower	Upper
164	100		
129	100.9	70.3	130.5
131	95.2	65.4	121.4
166	129.1	86.0	159.8



Abundance Ion 163.90 (163.60 to 164.60): VU031860.D (-2205) (-)
 Ion 128.95 (128.65 to 129.65): VU031860.D (-2205) (-)
 Ion 130.95 (130.65 to 131.65): VU031860.D (-2205) (-)
 Ion 165.90 (165.60 to 166.60): VU031860.D (-2205) (-)

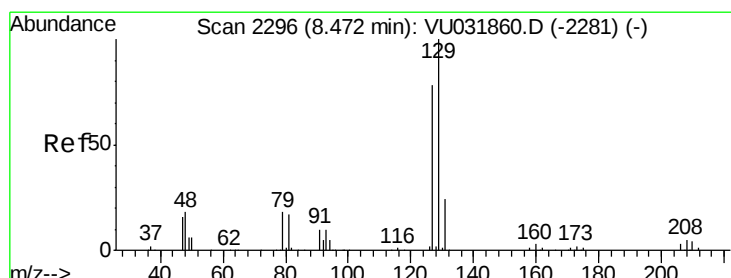
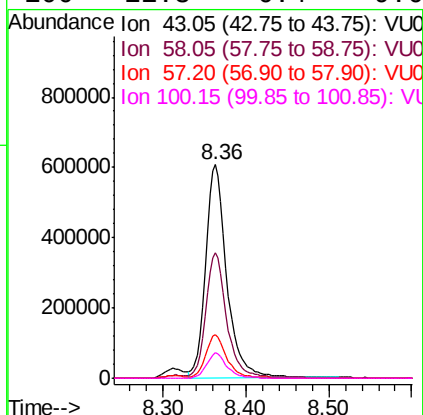
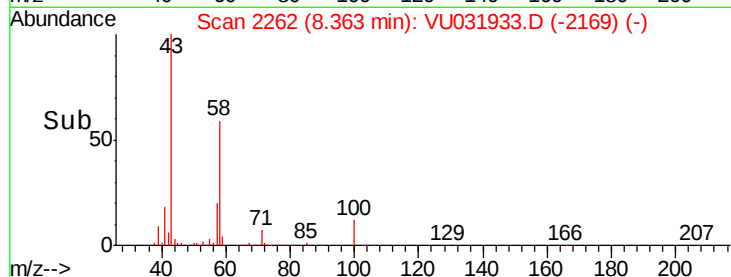
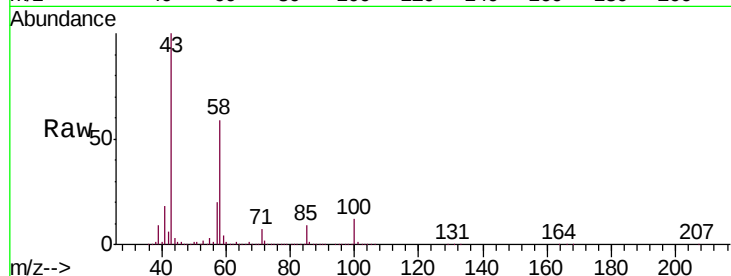




#48
2-Hexanone
Concen: 46.112 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

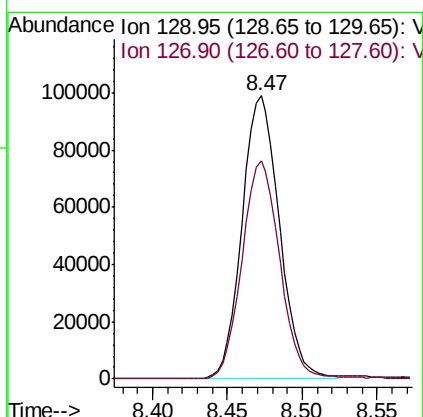
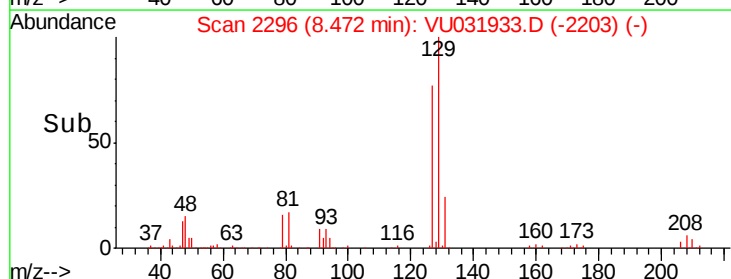
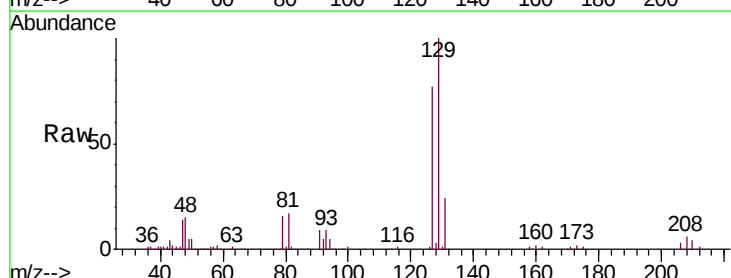
Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

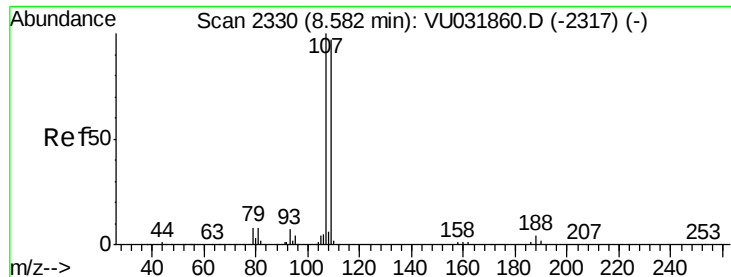
Tgt Ion: 43 Resp: 1096002
Ion Ratio Lower Upper
43 100
58 57.3 40.2 60.2
57 20.0 13.8 20.6
100 11.3 6.4 9.6#



#49
Dibromochloromethane
Concen: 5.032 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

Tgt Ion: 129 Resp: 172292
Ion Ratio Lower Upper
129 100
127 77.2 54.7 101.7

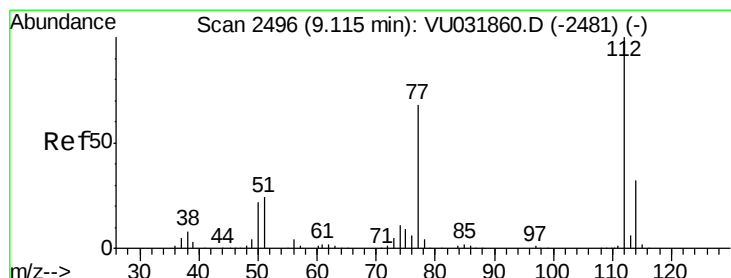
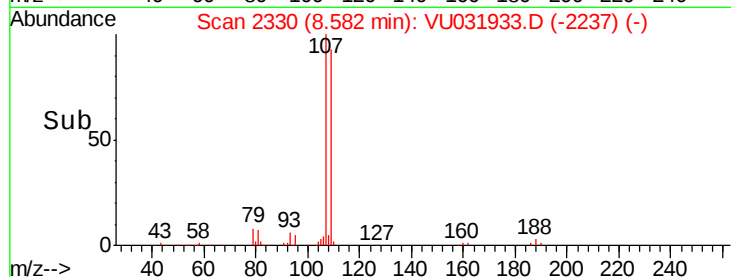
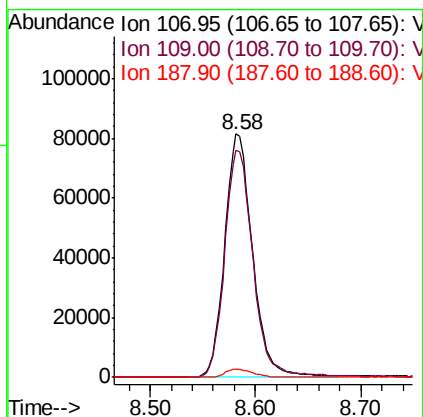
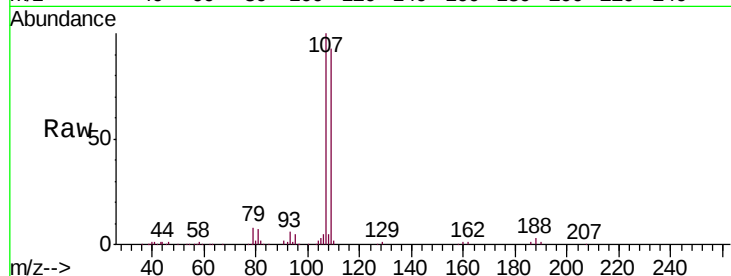




#50
1,2-Dibromoethane
Concen: 5.564 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

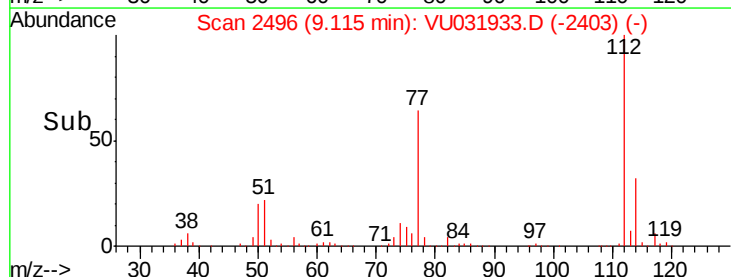
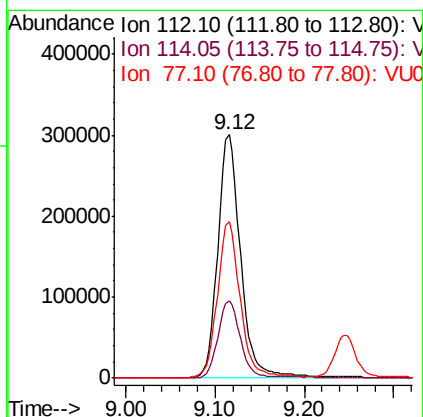
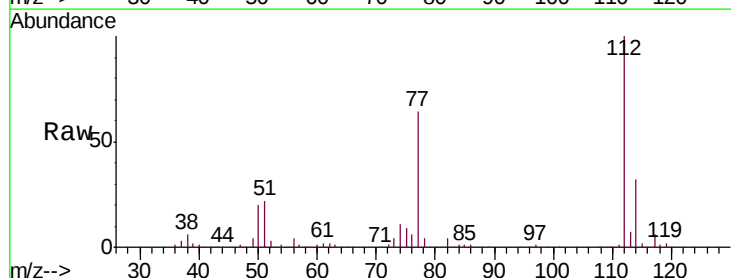
Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

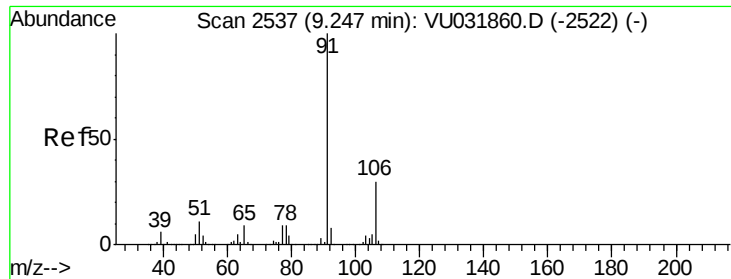
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.1	62.6	116.3
188	3.4	2.1	3.1#



#51
Chlorobenzene
Concen: 5.256 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.7
77	64.4	56.9	85.3





#52

Ethylbenzene

Concen: 5.216 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

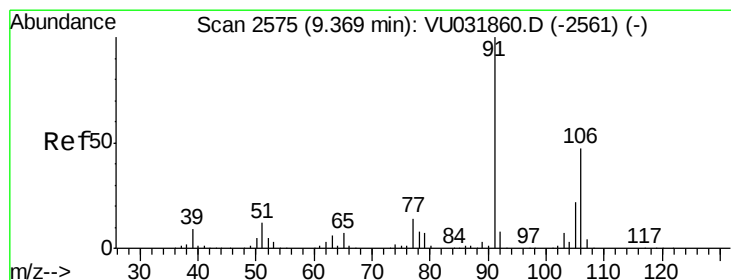
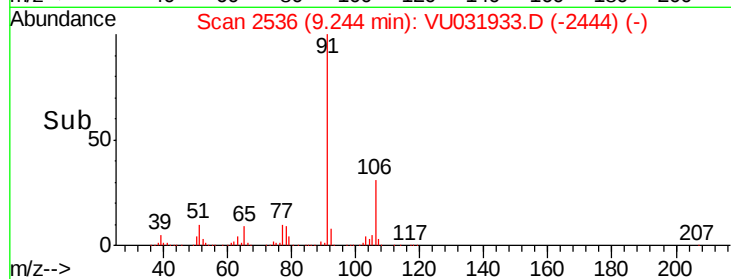
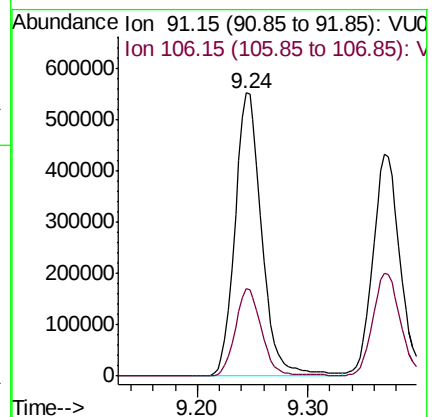
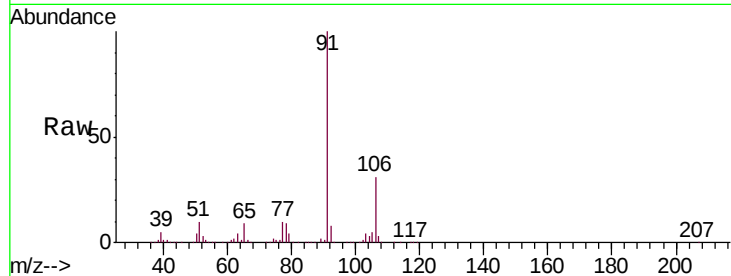
VSTD00527

Tgt Ion: 91 Resp: 932803

Ion Ratio Lower Upper

91 100

106 30.7 20.0 37.2



#53

m,p-Xylene

Concen: 5.500 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU031933.D

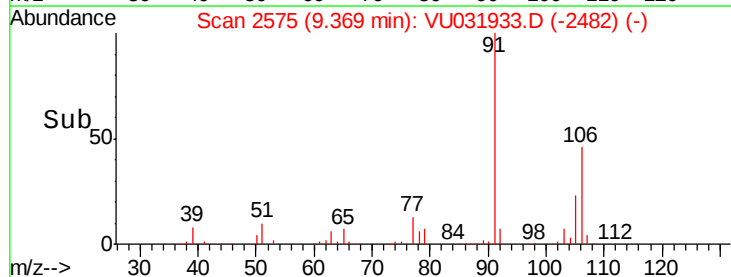
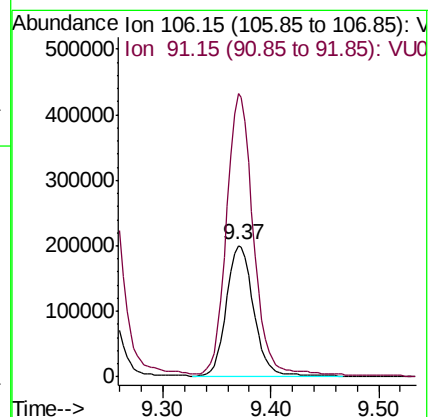
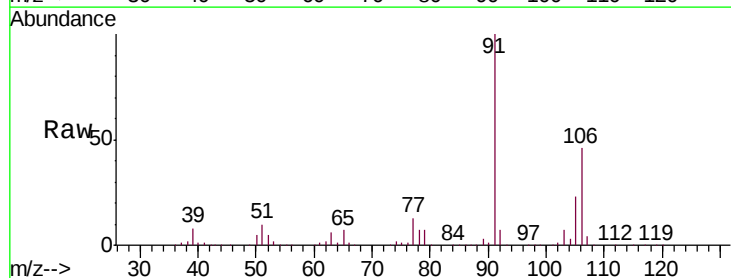
Acq: 12 May 2019 10:32

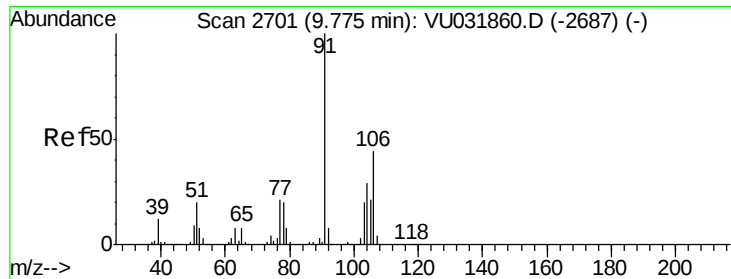
Tgt Ion: 106 Resp: 350116

Ion Ratio Lower Upper

106 100

91 215.5 150.3 279.1

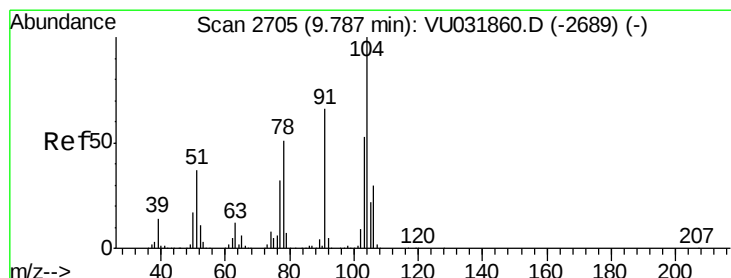
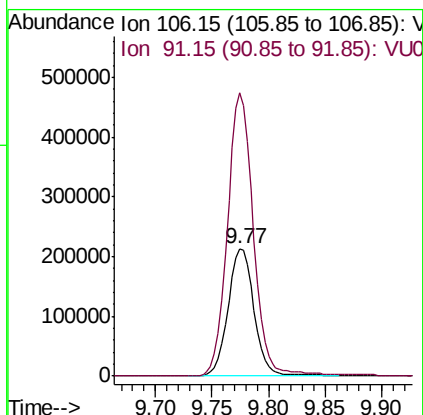
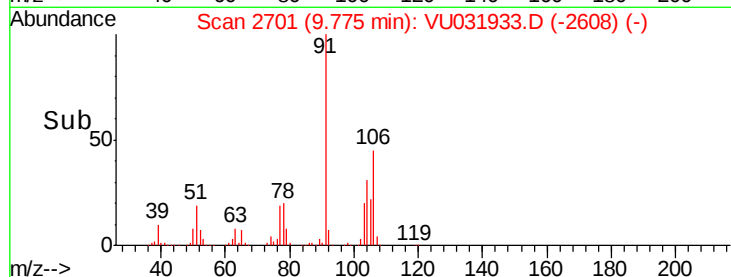
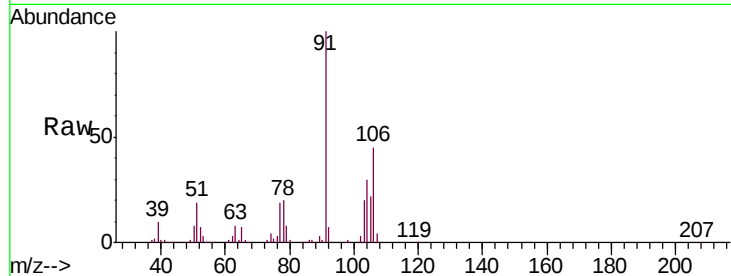




#54
o-Xylene
Concen: 5.644 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

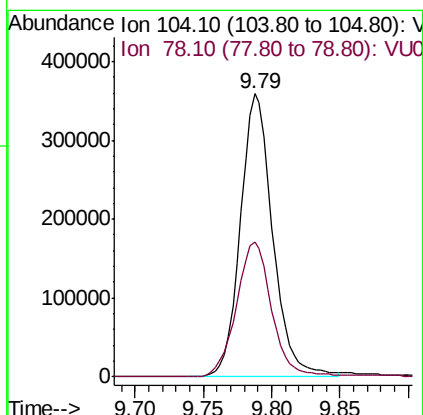
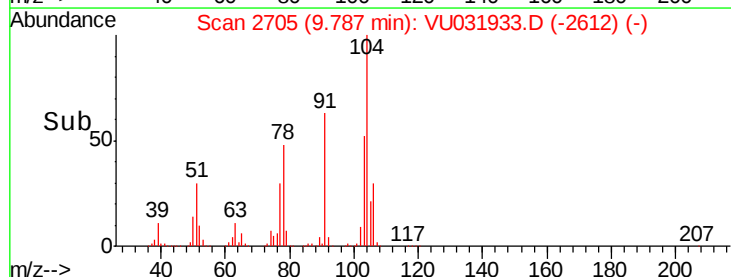
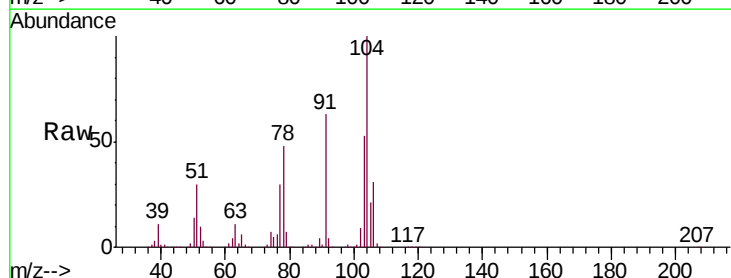
Instrument :
MSVOA_U
ClientSampleId :
VSTD00527

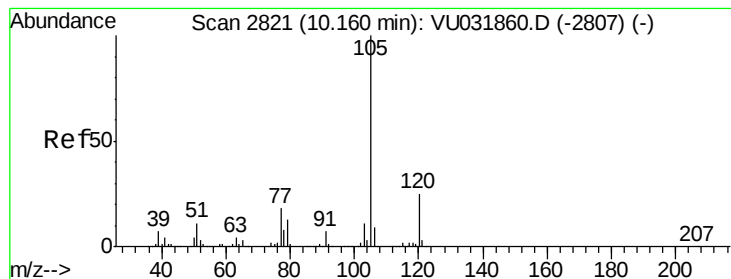
Tgt Ion:106 Resp: 343651
Ion Ratio Lower Upper
106 100
91 221.4 161.8 300.6



#55
Styrene
Concen: 5.647 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU031933.D
Acq: 12 May 2019 10:32

Tgt Ion:104 Resp: 590061
Ion Ratio Lower Upper
104 100
78 47.7 37.2 69.0





#56

Isopropylbenzene

Concen: 5.443 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00527

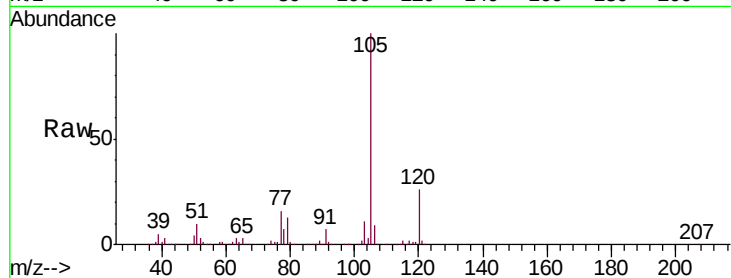
Tgt Ion: 105 Resp: 887118

Ion Ratio Lower Upper

105 100

120 25.7 20.2 30.4

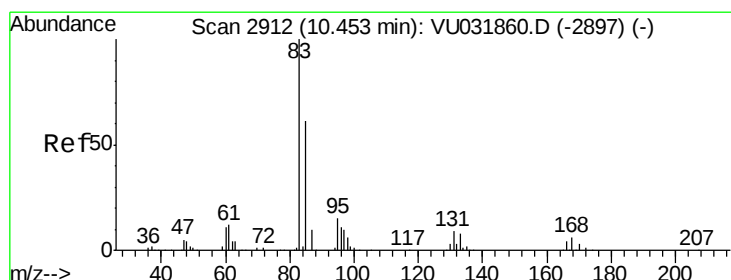
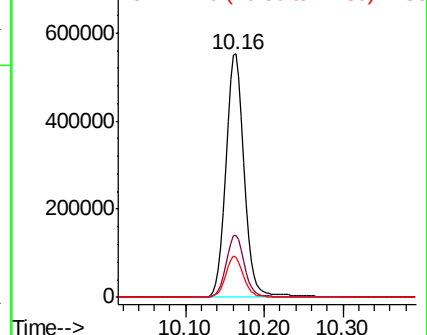
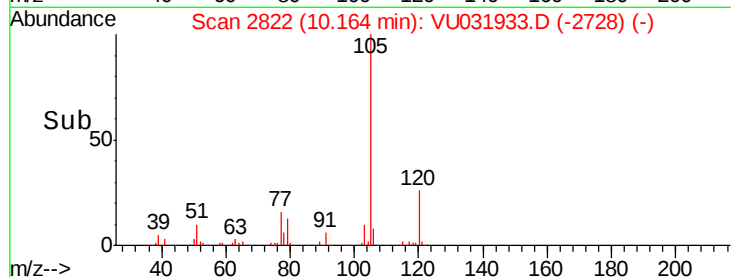
77 16.4 14.8 22.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.109 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

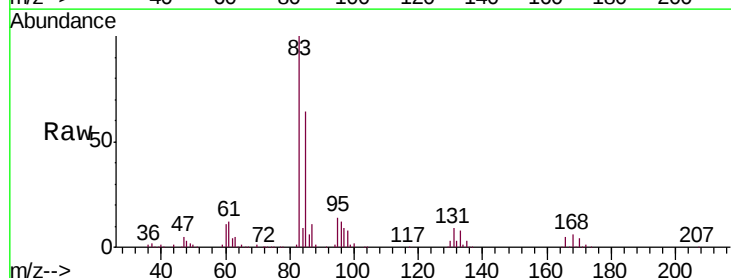
Tgt Ion: 83 Resp: 200903

Ion Ratio Lower Upper

83 100

85 63.5 44.3 82.3

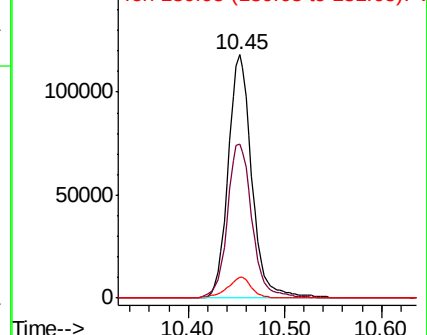
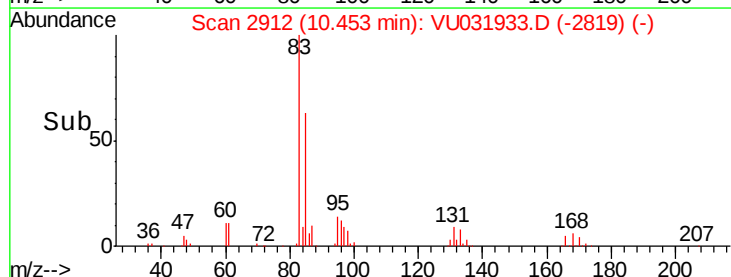
131 8.5 6.0 9.0

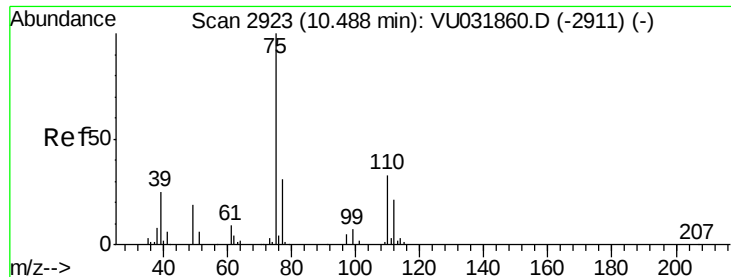


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.044 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

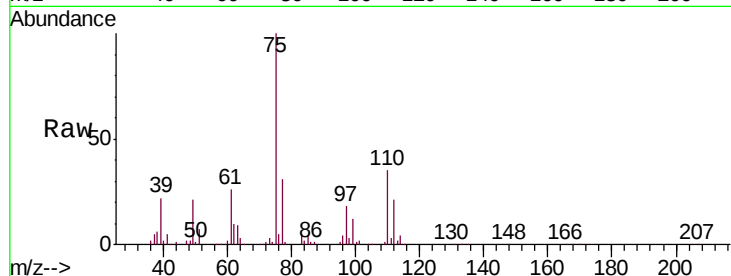
VSTD00527

Tgt Ion: 75 Resp: 148358

Ion Ratio Lower Upper

75 100

77 31.4 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VU031860.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU031860.D (-2911) (-)

10.49

100000

80000

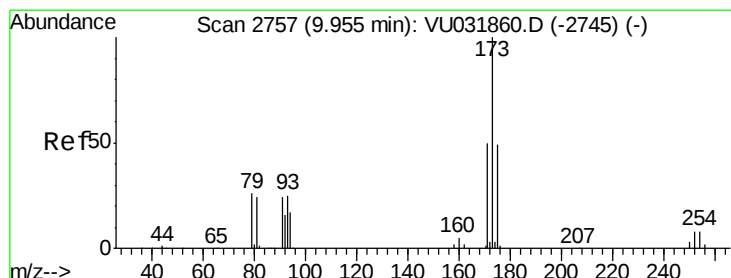
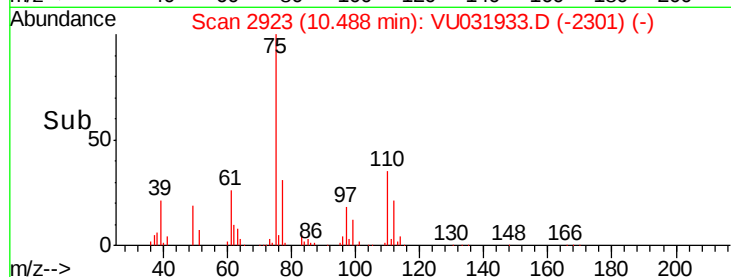
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 5.180 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

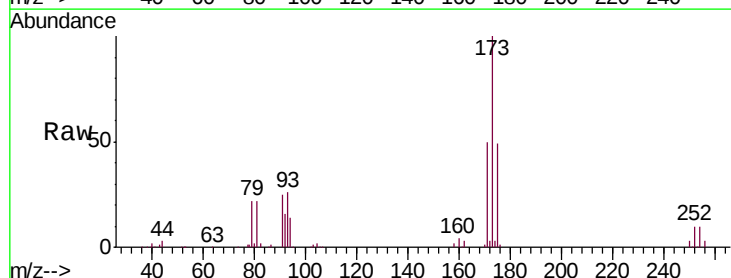
Tgt Ion: 173 Resp: 96107

Ion Ratio Lower Upper

173 100

175 47.9 37.2 55.8

254 8.2 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU031860.D (-2745) (-)

Ion 174.90 (174.60 to 175.60): VU031860.D (-2745) (-)

Ion 253.75 (253.45 to 254.45): VU031860.D (-2745) (-)

9.95

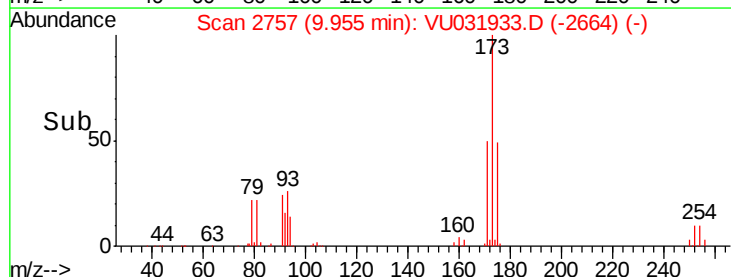
60000

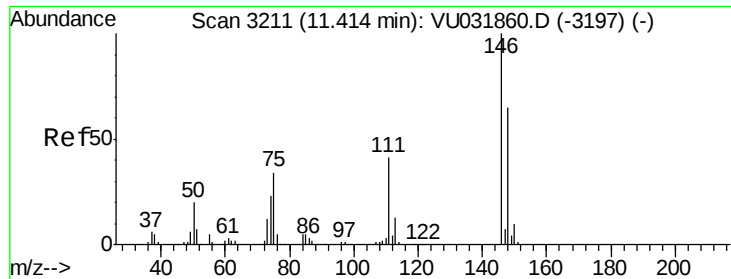
40000

20000

0

Time-->

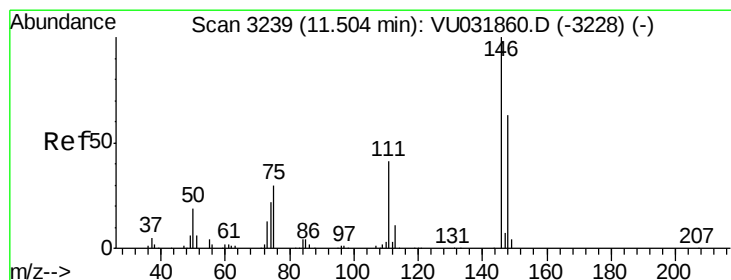
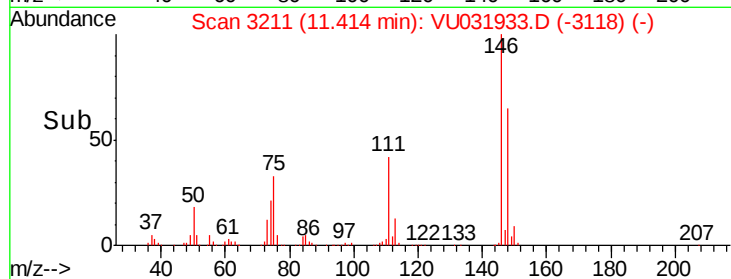
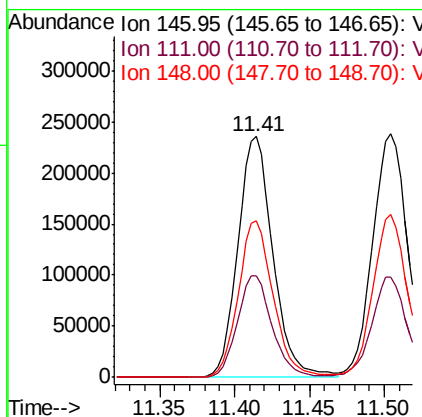
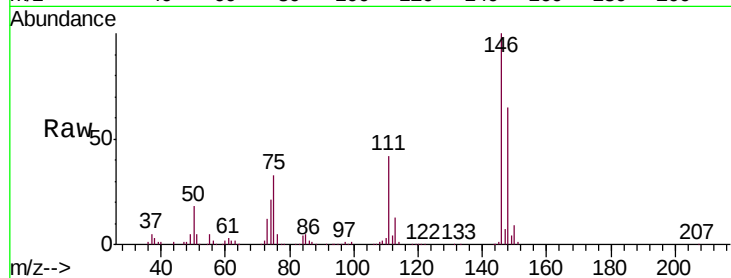




#62
 1,3-Dichlorobenzene
 Concen: 5.223 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

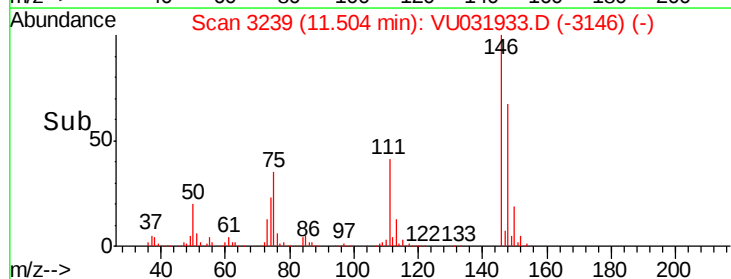
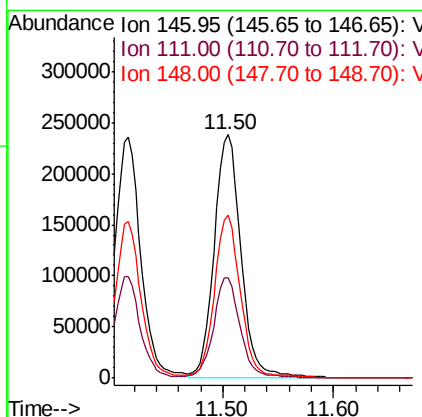
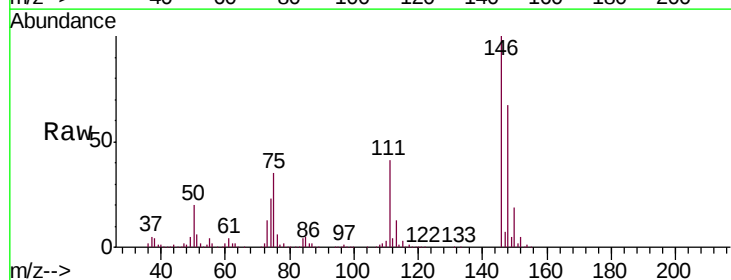
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

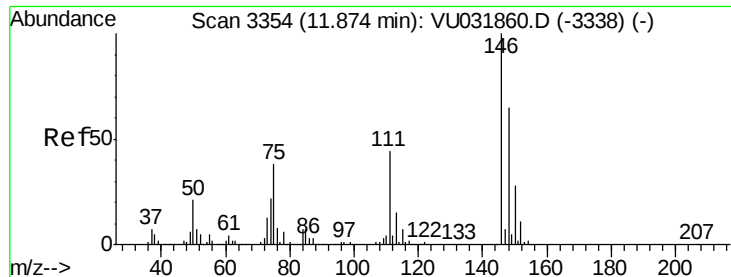
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	29.4	54.6
148	64.9	44.0	81.6



#63
 1,4-Dichlorobenzene
 Concen: 5.331 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	29.5	54.7
148	66.9	44.8	83.2

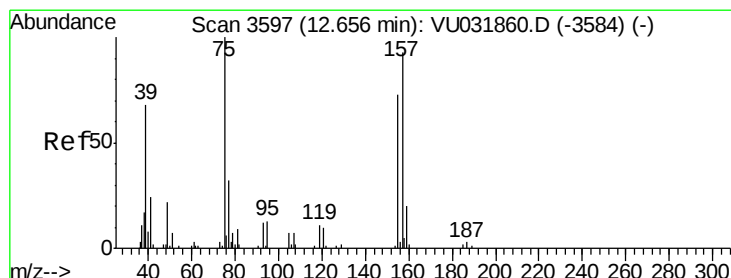
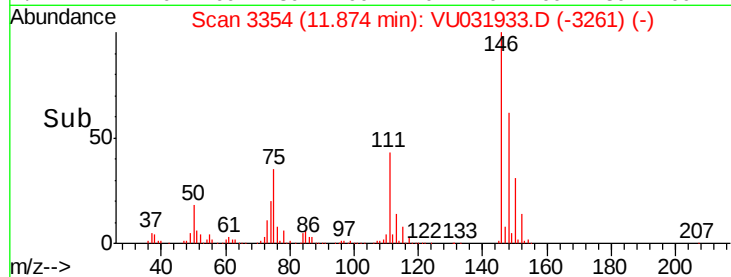
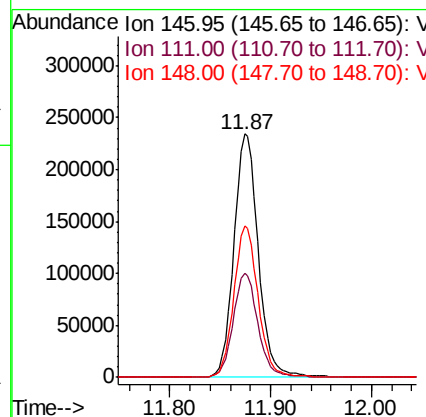
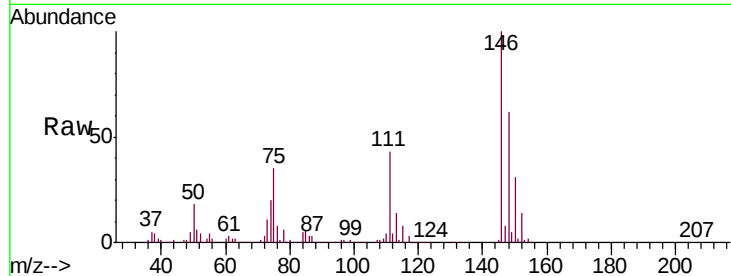




#65
 1,2-Dichlorobenzene
 Concen: 5.493 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

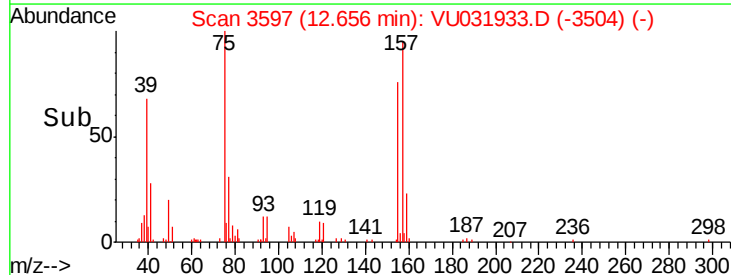
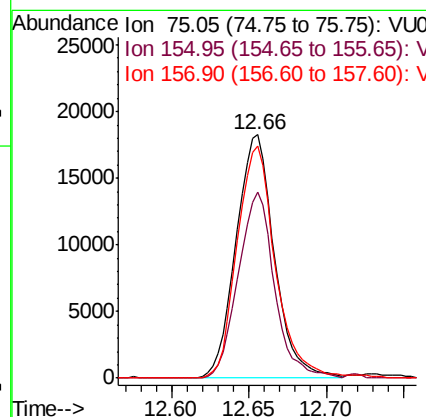
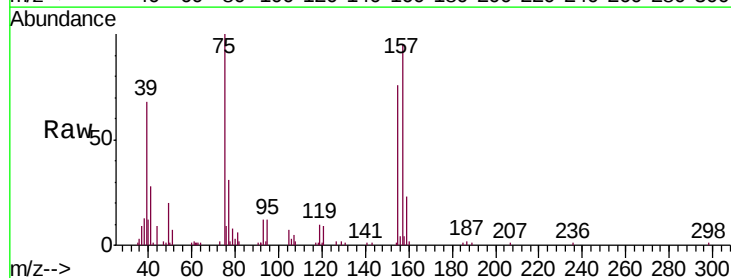
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

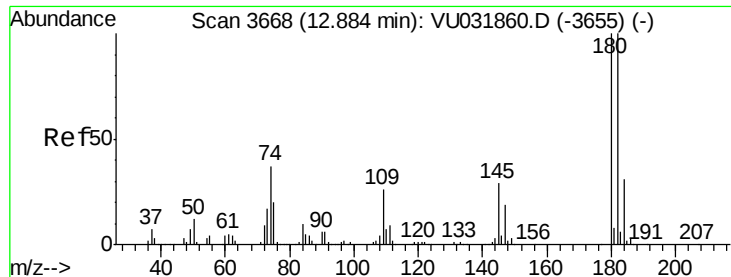
Tgt Ion: 146 Resp: 394645
 Ion Ratio Lower Upper
 146 100
 111 42.9 37.0 55.4
 148 62.1 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.653 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion: 75 Resp: 31428
 Ion Ratio Lower Upper
 75 100
 155 76.3 42.2 63.2#
 157 95.3 54.9 82.3#

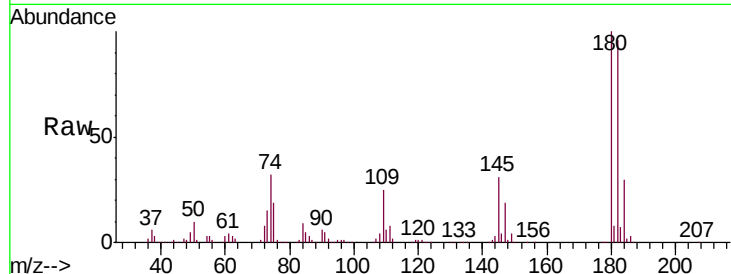




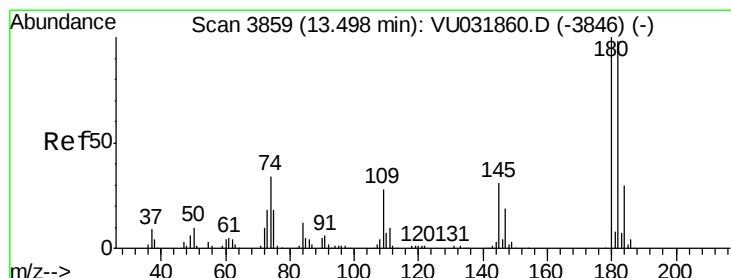
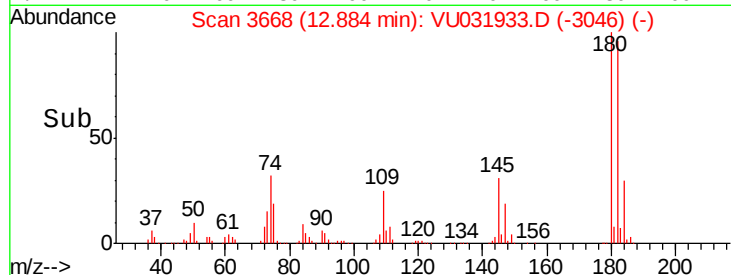
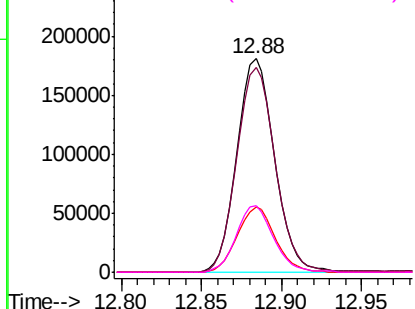
#67
 1,3,5-Trichlorobenzene
 Concen: 5.203 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00527

Tgt Ion:	180	Resp:	291095
Ion	Ratio	Lower	Upper
180	100		
182	97.3	77.0	115.4
184	30.6	24.1	36.1
145	30.6	24.5	36.7

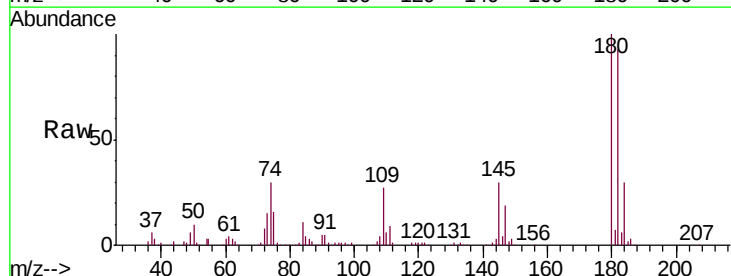


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

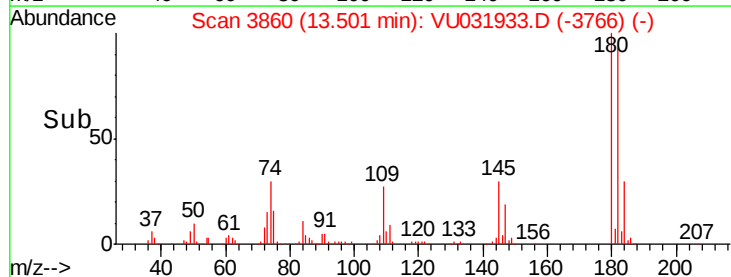
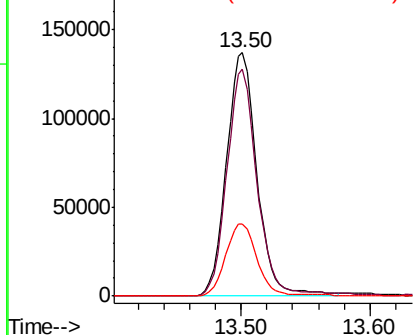


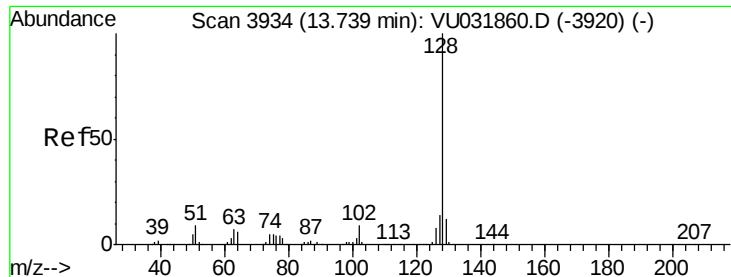
#68
 1,2,4-trichlorobenzene
 Concen: 5.433 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031933.D
 Acq: 12 May 2019 10:32

Tgt Ion:	180	Resp:	224513
Ion	Ratio	Lower	Upper
180	100		
182	93.8	74.8	112.2
145	30.3	25.4	38.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.637 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00527

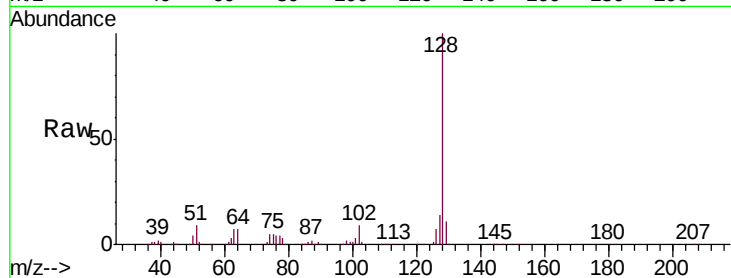
Tgt Ion:128 Resp: 399564

Ion Ratio Lower Upper

128 100

129 10.4 8.0 12.0

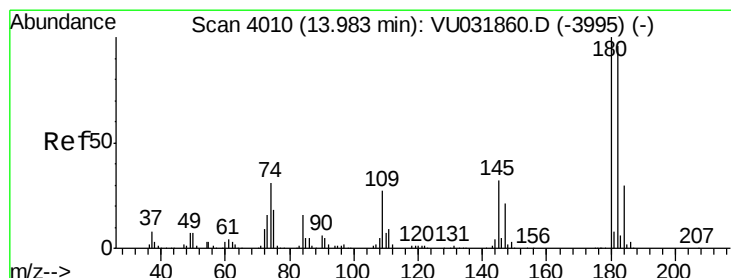
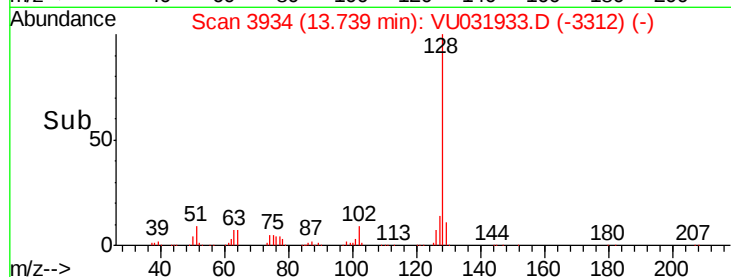
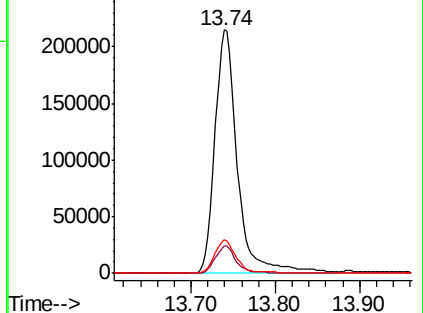
127 13.5 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.806 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031933.D

Acq: 12 May 2019 10:32

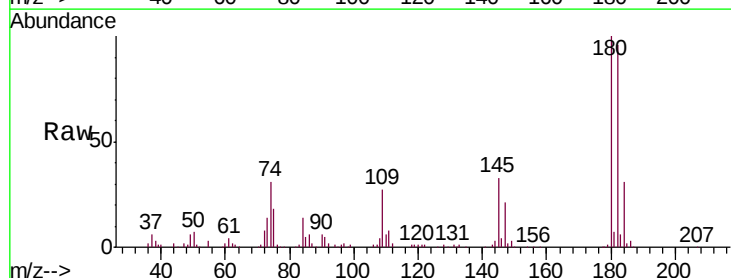
Tgt Ion:180 Resp: 223342

Ion Ratio Lower Upper

180 100

182 96.5 78.4 117.6

145 32.1 27.4 41.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

