

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101518\
 Data File : VU027662.D
 Acq On : 15 Oct 2018 13:19
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Quant Time: Oct 16 05:53:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 13 04:07:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	197888	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	176318	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	82998	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	58036	37.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.54%
7) Chloroethane-d5	1.68	69	49681	41.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.82%
11) 1,1-Dichloroethene-d2	2.28	63	122088	41.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.58%
21) 2-Butanone-d5	4.18	46	118327	94.12	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.12%
24) Chloroform-d	4.65	84	116236	46.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.32%
26) 1,2-Dichloroethane-d4	5.31	65	78419	44.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.86%
32) Benzene-d6	5.34	84	224737	44.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.94%
36) 1,2-Dichloropropane-d6	6.33	67	80119	46.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.58%
41) Toluene-d8	7.57	98	196949	43.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	7.85	79	36243	43.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.90%
47) 2-Hexanone-d5	8.31	63	78139	89.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	89.38%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	103320	45.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.30%
64) 1,2-Dichlorobenzene-d4	11.86	152	71387	43.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.92%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	90149	45.937	ug/L 100
3) Chloromethane	1.33	50	105022	46.573	ug/L 99
5) Vinyl chloride	1.40	62	98223	44.576	ug/L 99
6) Bromomethane	1.62	94	45015	46.747	ug/L 98
8) Chloroethane	1.70	64	55550	42.066	ug/L 99
9) Trichlorofluoromethane	1.89	101	105612	47.883	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	61551	47.005	ug/L 99
12) 1,1-Dichloroethene	2.28	96	55459	43.386	ug/L 85
13) Acetone	2.32	43	100382	97.349	ug/L 99
14) Carbon disulfide	2.48	76	186215	39.658	ug/L 99
15) Methyl Acetate	2.62	43	98976	47.900	ug/L 99
16) Methylene chloride	2.70	84	71426	46.006	ug/L 94
17) trans-1,2-Dichloroethene	2.98	96	60954	43.061	ug/L 97
18) Methyl tert-butyl Ether	3.00	73	217237	46.156	ug/L 99
19) 1,1-Dichloroethane	3.45	63	139874	47.855	ug/L 100
20) cis-1,2-Dichloroethene	4.23	96	70041	44.604	ug/L 96
22) 2-Butanone	4.26	43	139983	94.835	ug/L 98

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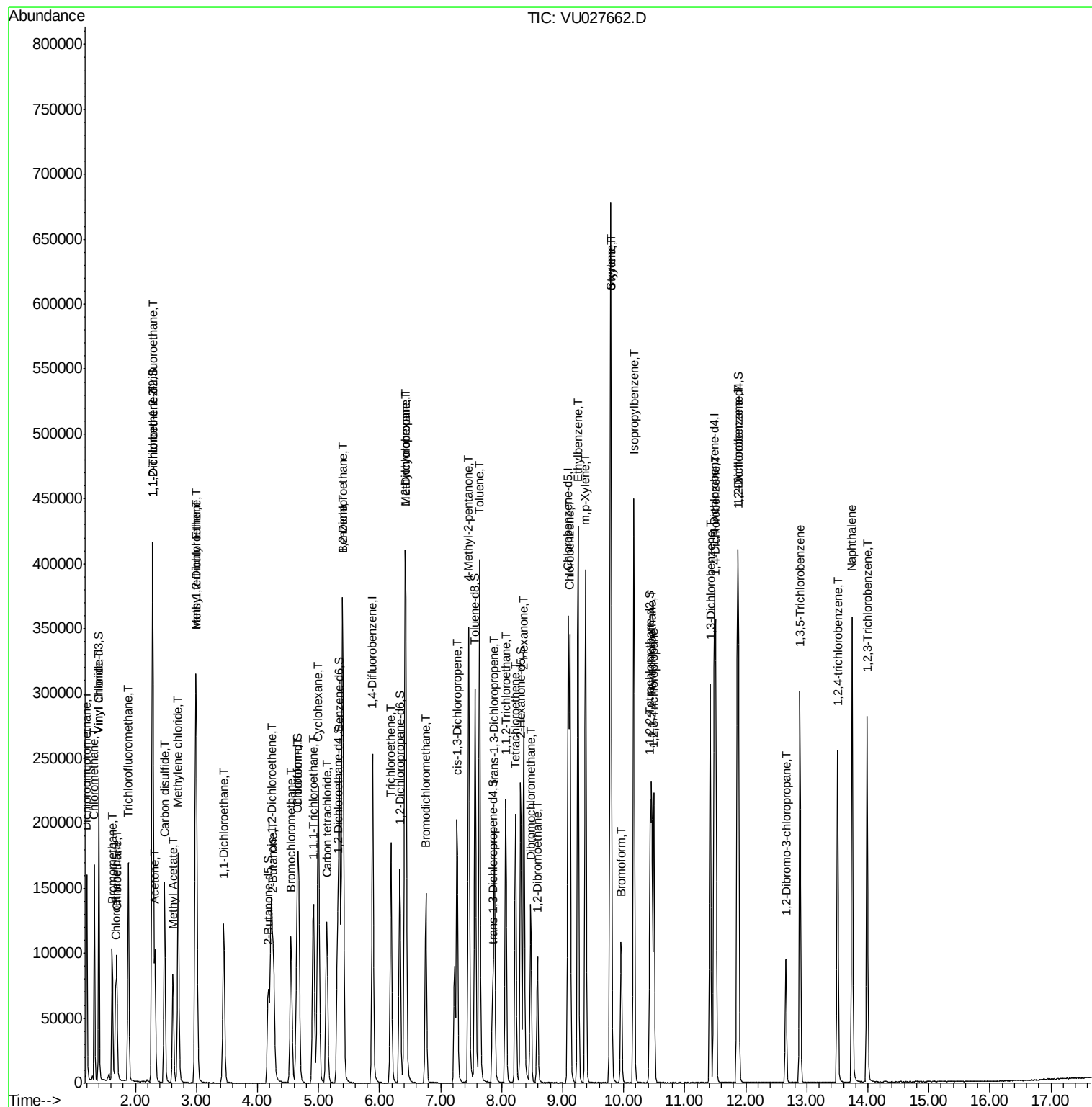
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	34171	47.719	ug/L	95
25) Chloroform	4.67	83	132813	47.038	ug/L	99
27) 1,2-Dichloroethane	5.40	62	109321	48.209	ug/L	99
29) Cyclohexane	5.00	56	125245	46.831	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	107867	51.132	ug/L	99
31) Carbon tetrachloride	5.14	117	90665	51.096	ug/L	100
33) Benzene	5.39	78	284627	49.124	ug/L	100
34) Trichloroethene	6.19	95	64588	46.352	ug/L	99
35) Methylcyclohexane	6.42	83	111695	46.134	ug/L	97
37) 1,2-Dichloropropane	6.43	63	85895	51.168	ug/L	99
38) Bromodichloromethane	6.76	83	97278	50.996	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	117601	47.677	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	252155	102.578	ug/L	98
42) Toluene	7.64	91	283140	48.703	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	108817	47.527	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	65433	48.557	ug/L	99
46) Tetrachloroethene	8.23	164	45194	43.641	ug/L	99
48) 2-Hexanone	8.36	43	193883	99.886	ug/L	98
49) Dibromochloromethane	8.48	129	67325	47.914	ug/L	98
50) 1,2-Dibromoethane	8.59	107	64041	44.796	ug/L	99
51) Chlorobenzene	9.12	112	161181	43.854	ug/L	99
52) Ethylbenzene	9.25	91	290349	44.980	ug/L	99
53) m,p-Xylene	9.38	106	104559	44.255	ug/L	96
54) o-xylene	9.78	106	104384	45.861	ug/L	99
55) Styrene	9.79	104	181136	46.473	ug/L	99
56) Isopropylbenzene	10.17	105	273659	45.879	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	111163	47.082	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	92906	48.885	ug/L	99
61) Bromoform	9.96	173	46440	49.244	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	112785	43.662	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	118989	44.161	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	125353	47.670	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	25453	52.215	ug/L	94
67) 1,3,5-Trichlorobenzene	12.89	180	89339	44.764	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	73411	39.999	ug/L	98
69) Naphthalene	13.74	128	263038	46.479	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	83571	44.777	ug/L	98

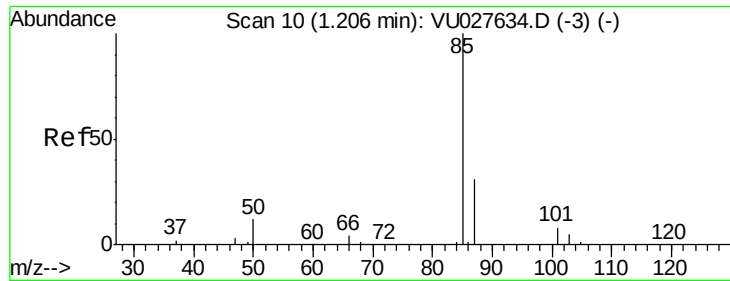
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.937 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

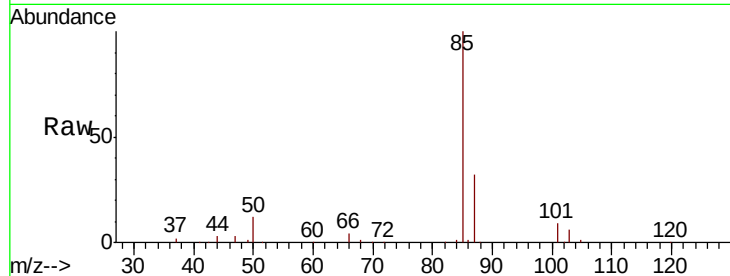
VSTD05049

Tgt Ion: 85 Resp: 90149

Ion Ratio Lower Upper

85 100

87 31.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

100000

80000

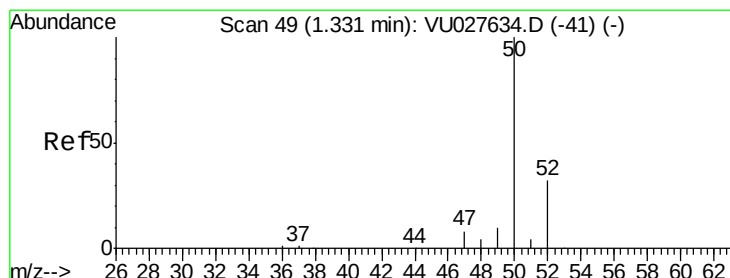
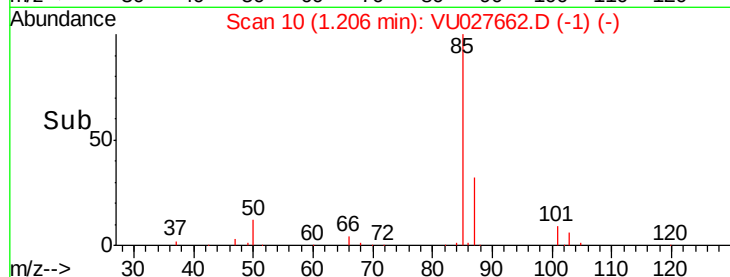
60000

40000

20000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 46.573 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027662.D

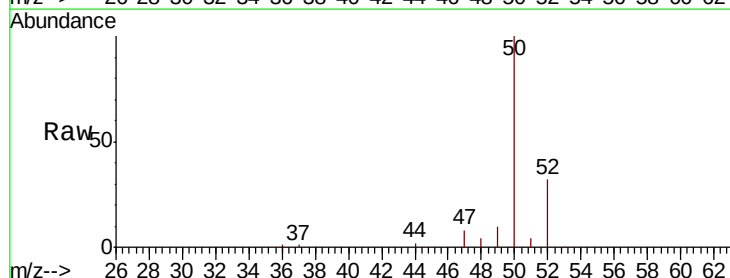
Acq: 15 Oct 2018 13:19

Tgt Ion: 50 Resp: 105022

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

120000

100000

80000

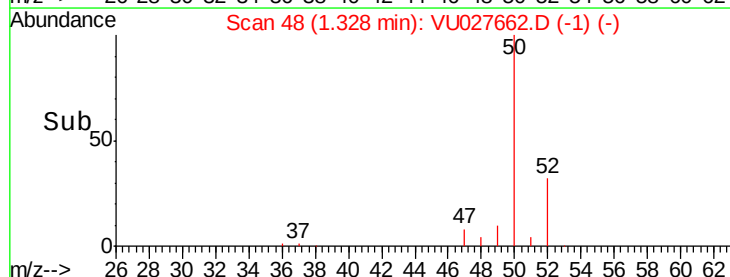
60000

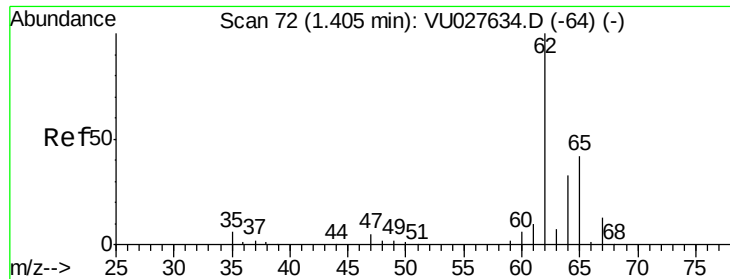
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 44.576 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

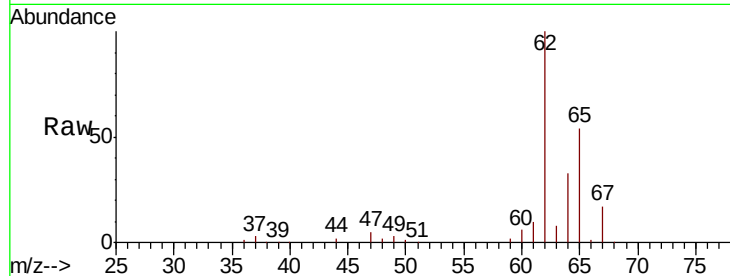
VSTD05049

Tgt Ion: 62 Resp: 98223

Ion Ratio Lower Upper

62 100

64 33.2 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

100000

80000

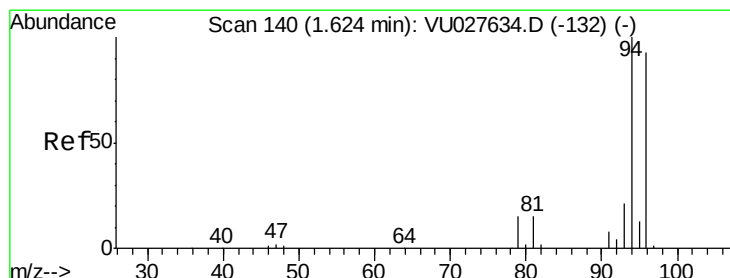
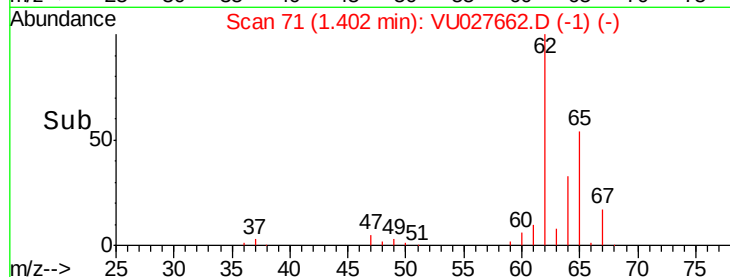
60000

40000

20000

0

Time--> 1.35 1.40 1.45



#6

Bromomethane

Concen: 46.747 ug/L

RT: 1.62 min Scan# 139

Delta R.T. -0.00 min

Lab File: VU027662.D

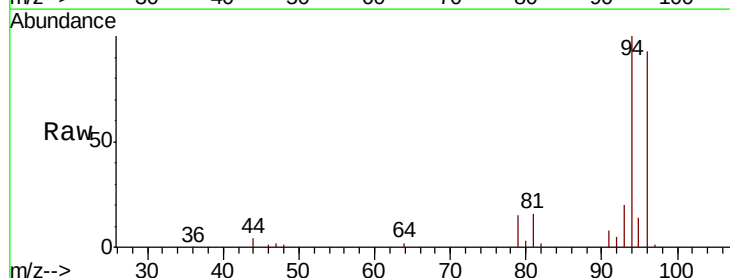
Acq: 15 Oct 2018 13:19

Tgt Ion: 94 Resp: 45015

Ion Ratio Lower Upper

94 100

96 93.1 66.6 123.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

40000

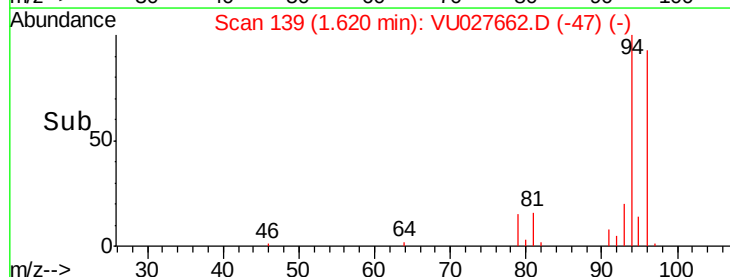
30000

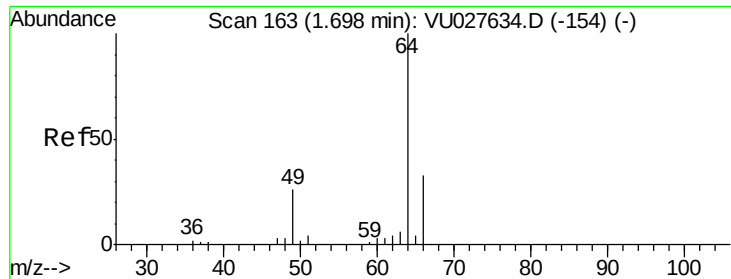
20000

10000

0

Time--> 1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 42.066 ug/L

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

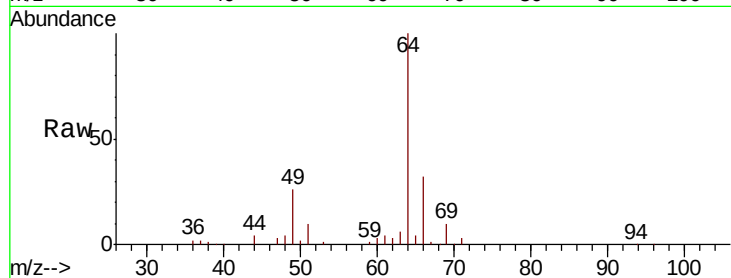
VSTD05049

Tgt Ion: 64 Resp: 55550

Ion Ratio Lower Upper

64 100

66 31.9 22.0 40.8



Abundance Ion 64.00 (63.70 to 64.70): VU027634.D (-154) (-)

Ion 66.00 (65.70 to 66.70): VU027634.D (-154) (-)

1.70

40000

30000

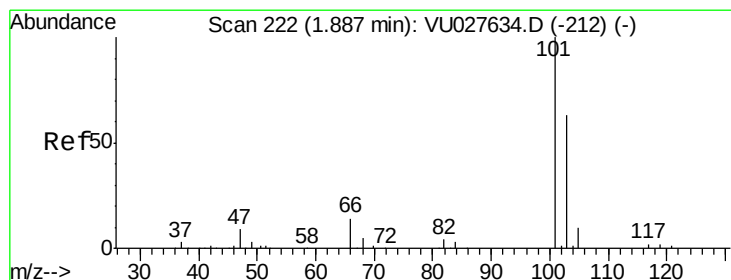
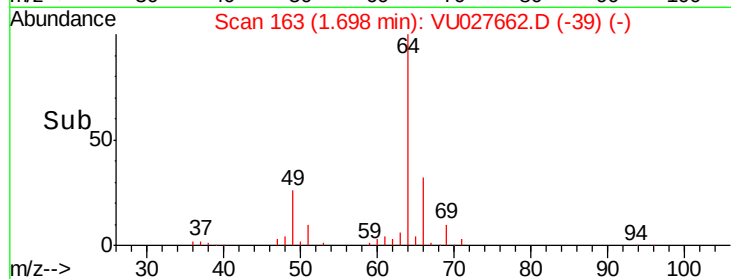
20000

10000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 47.883 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU027662.D

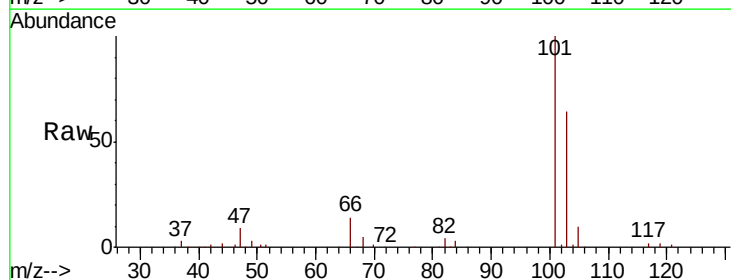
Acq: 15 Oct 2018 13:19

Tgt Ion: 101 Resp: 105612

Ion Ratio Lower Upper

101 100

103 64.3 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU027634.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU027634.D (-212) (-)

1.89

80000

60000

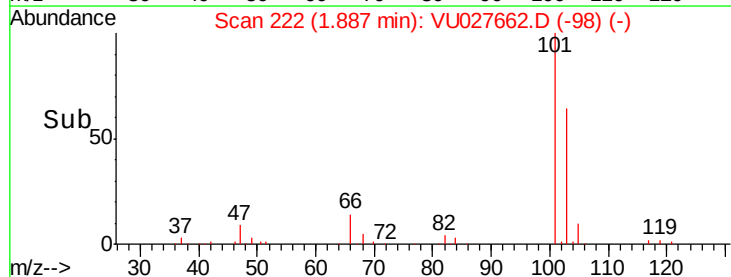
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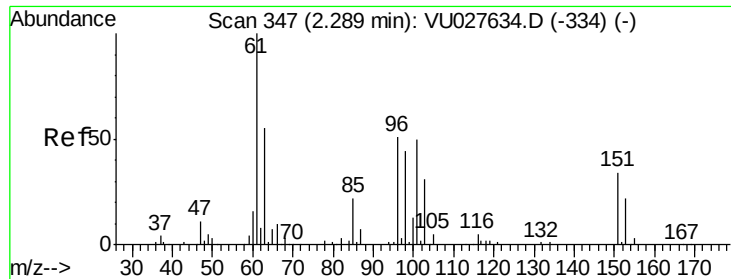
20000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 47.005 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

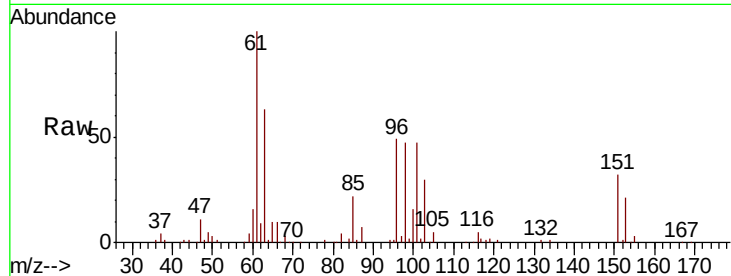
Tgt Ion: 101 Resp: 61551

Ion Ratio Lower Upper

101 100

85 45.8 35.9 53.9

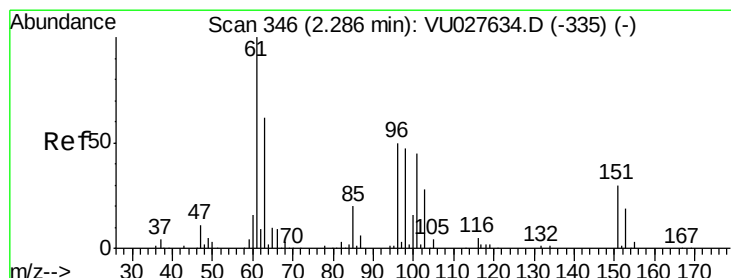
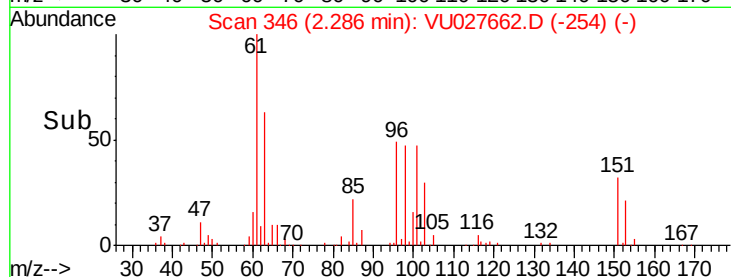
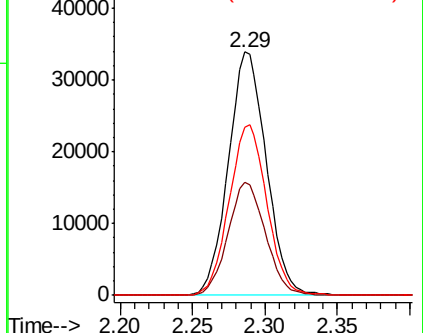
151 69.7 55.7 83.5



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: 43.386 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

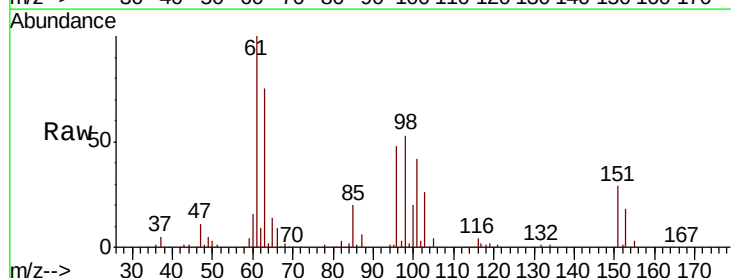
Tgt Ion: 96 Resp: 55459

Ion Ratio Lower Upper

96 100

61 210.4 135.2 251.0

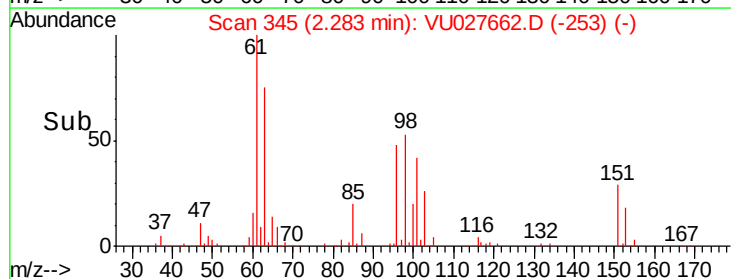
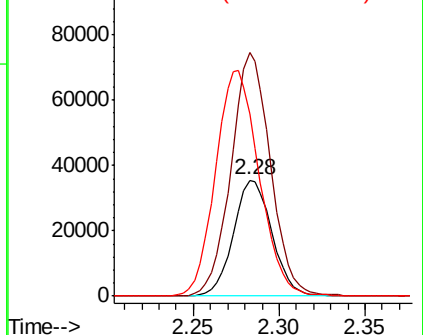
63 157.0 94.3 175.1

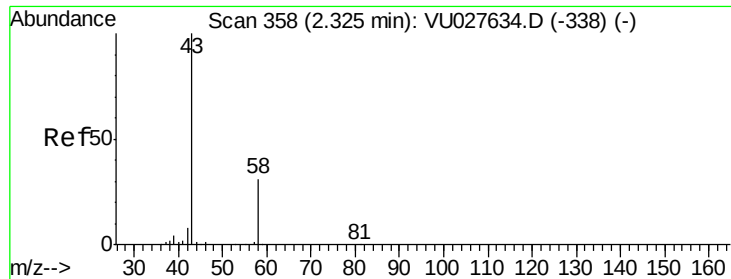


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 97.349 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

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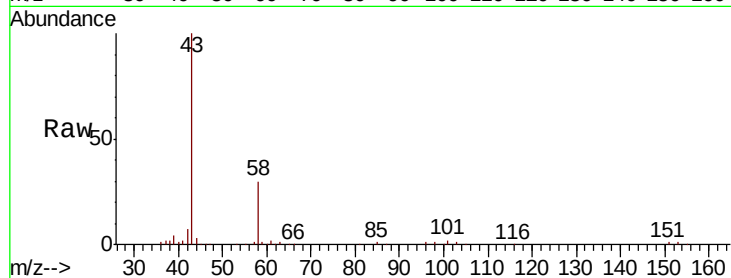
VSTD05049

Tgt Ion: 43 Resp: 100382

Ion Ratio Lower Upper

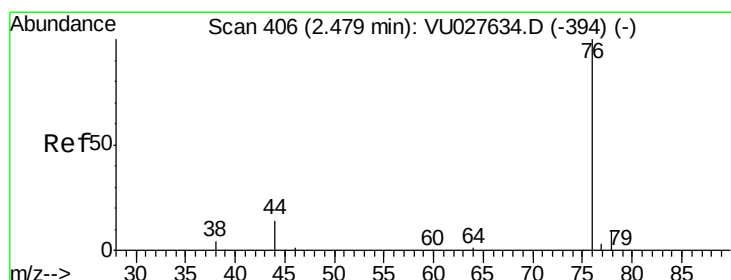
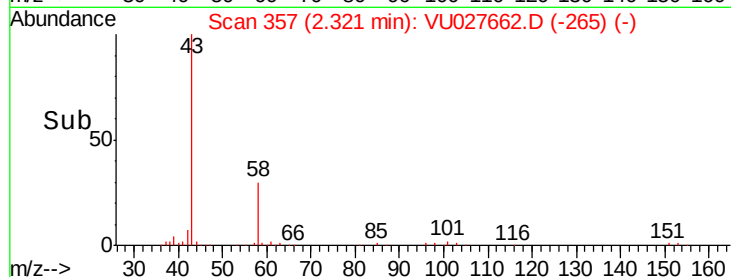
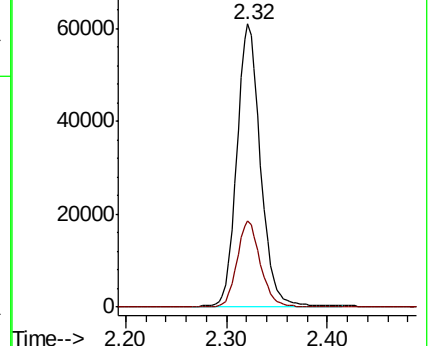
43 100

58 30.0 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 39.658 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027662.D

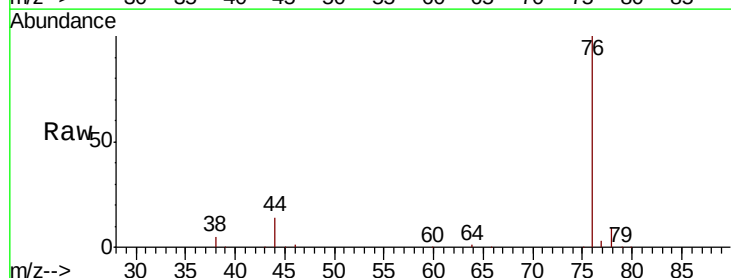
Acq: 15 Oct 2018 13:19

Tgt Ion: 76 Resp: 186215

Ion Ratio Lower Upper

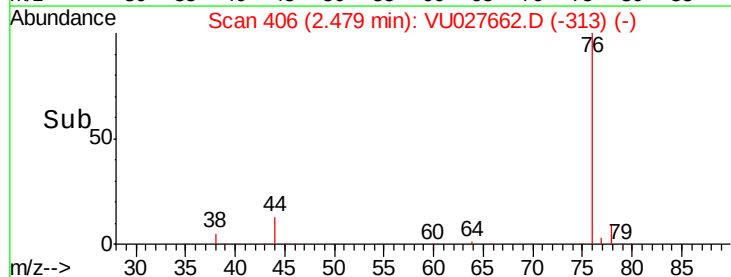
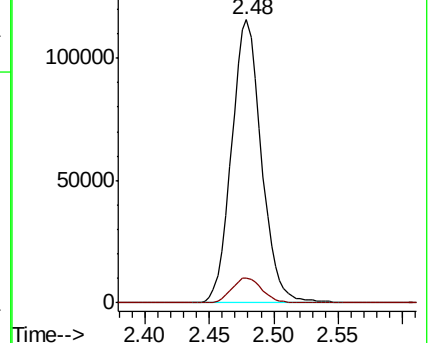
76 100

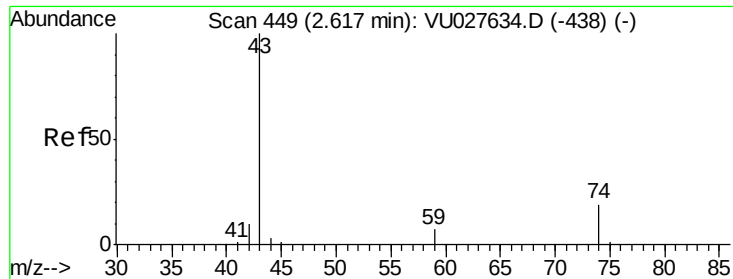
78 8.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

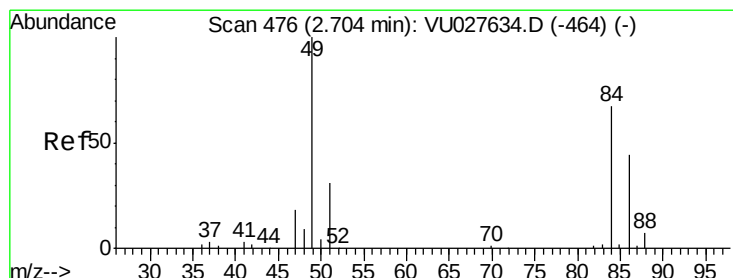
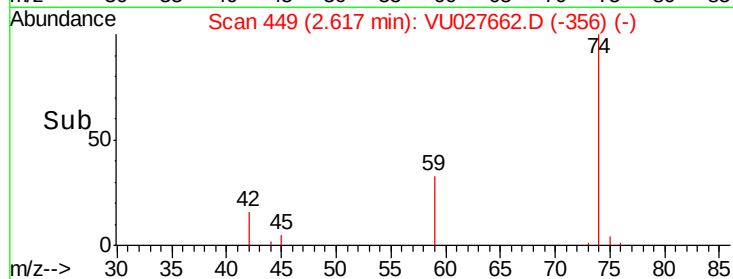
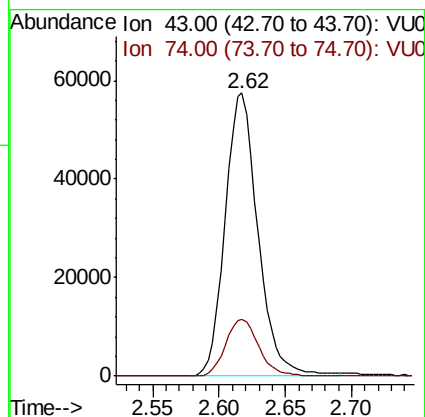
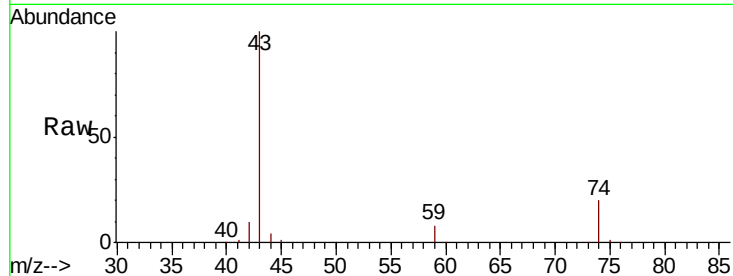




#15
Methyl Acetate
Concen: 47.900 ug/L
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

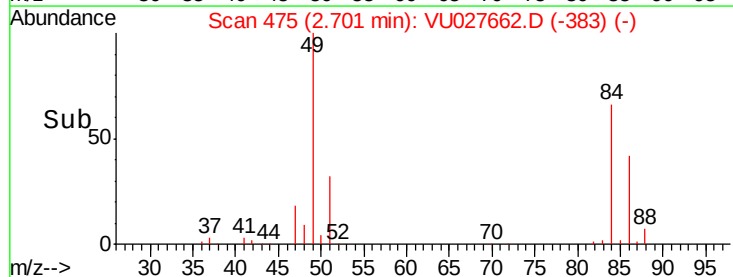
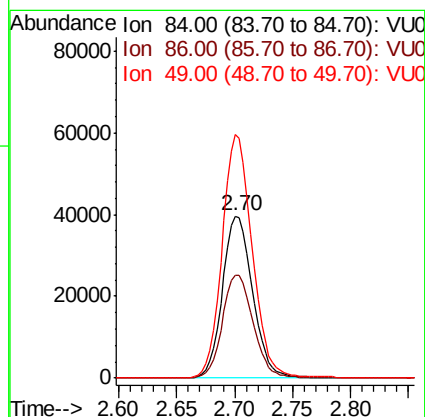
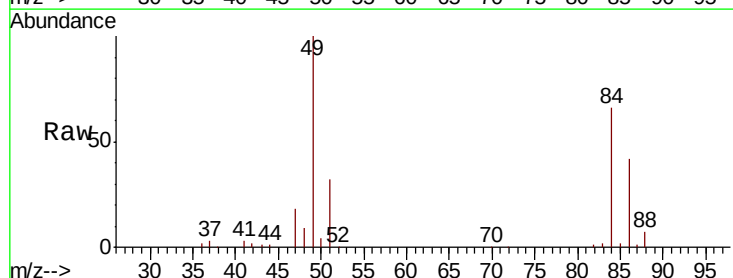
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

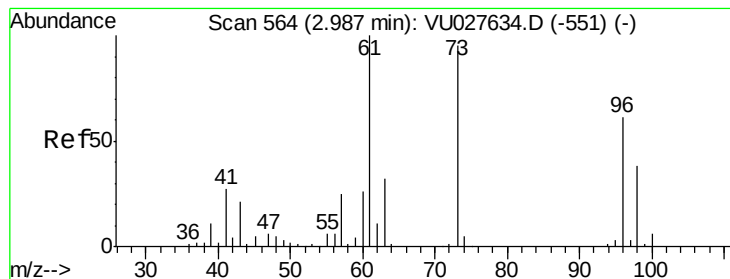
Tgt Ion: 43 Resp: 98976
Ion Ratio Lower Upper
43 100
74 20.3 16.0 24.0



#16
Methylene chloride
Concen: 46.006 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

Tgt Ion: 84 Resp: 71426
Ion Ratio Lower Upper
84 100
86 63.9 44.6 82.8
49 150.5 98.3 182.5





#17

trans-1,2-Dichloroethene

Concen: 43.061 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

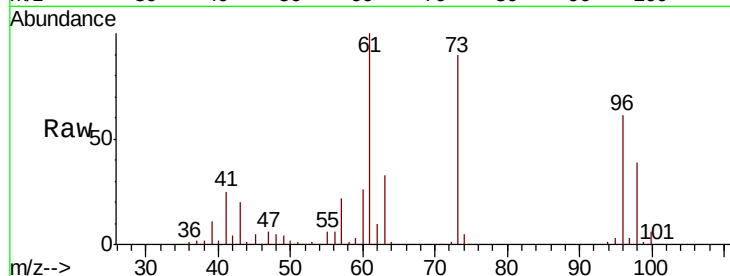
Tgt Ion: 96 Resp: 60954

Ion Ratio Lower Upper

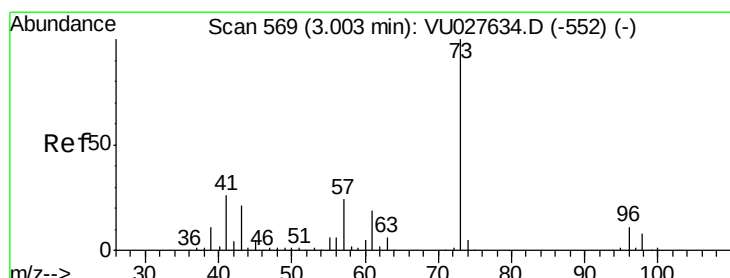
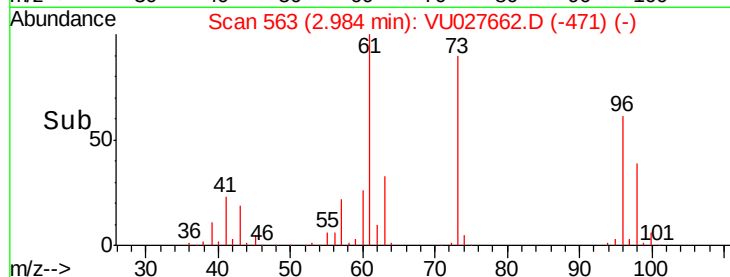
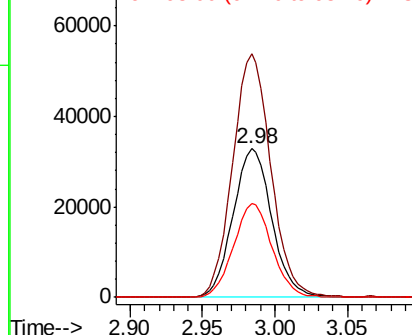
96 100

61 163.9 110.9 205.9

98 63.5 43.7 81.1



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: 46.156 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

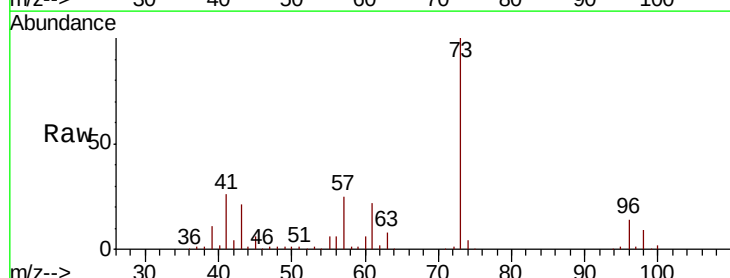
Tgt Ion: 73 Resp: 217237

Ion Ratio Lower Upper

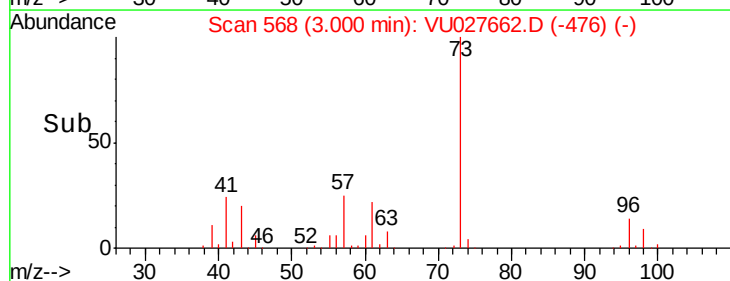
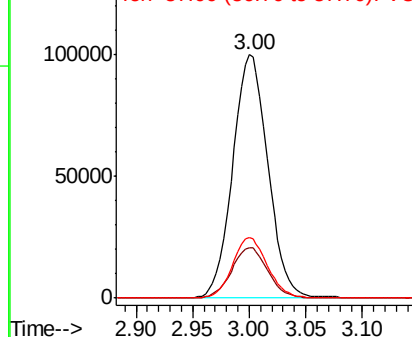
73 100

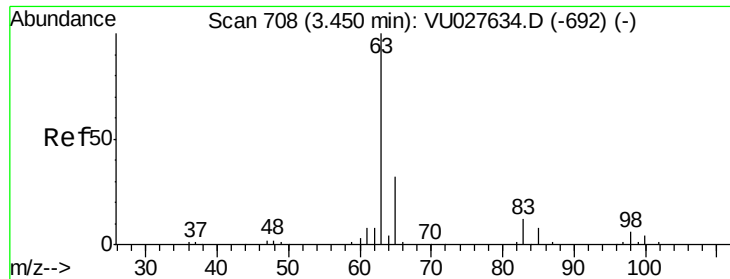
43 21.2 16.5 24.7

57 24.6 19.4 29.0



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

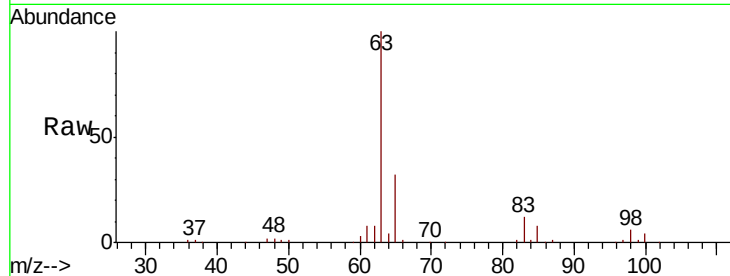




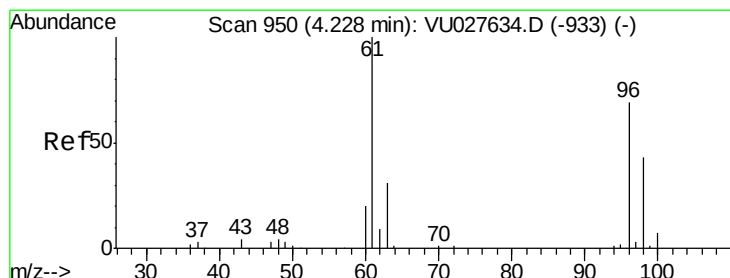
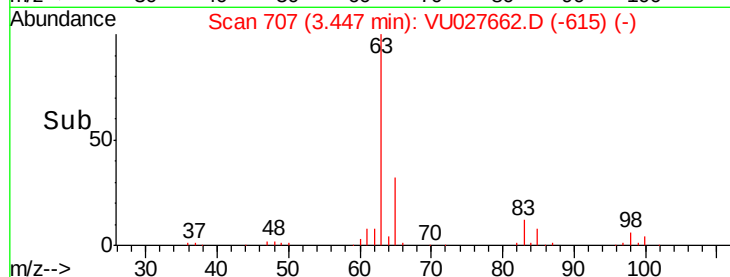
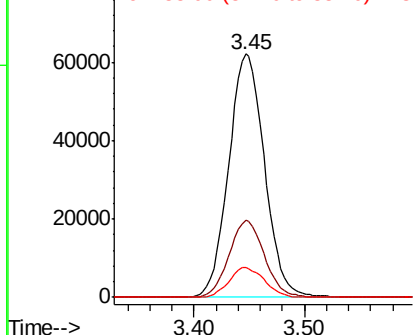
#19
 1,1-Dichloroethane
 Concen: 47.855 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion: 63 Resp: 139874
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.3 41.3
 83 12.1 8.4 15.6

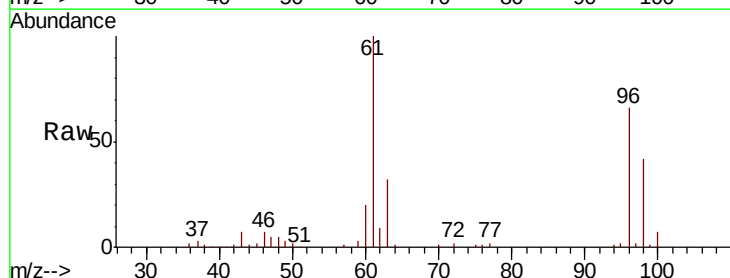


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

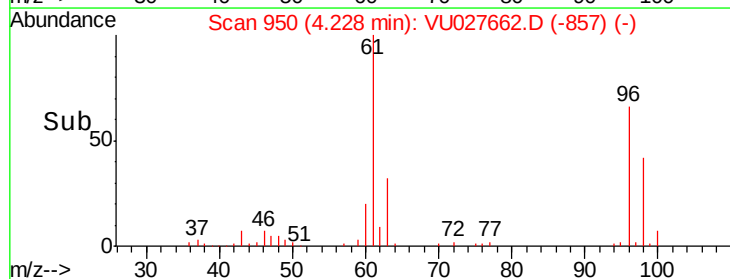
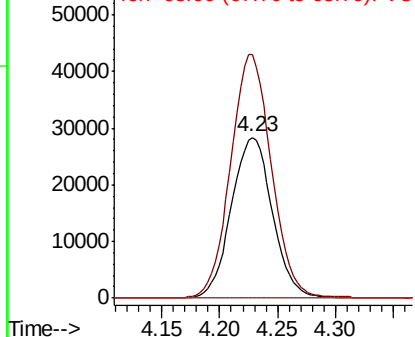


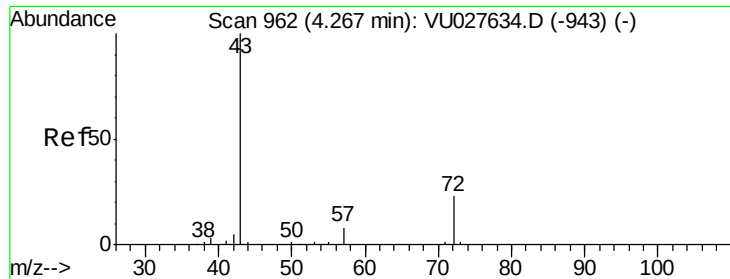
#20
 cis-1,2-Dichloroethene
 Concen: 44.604 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion: 96 Resp: 70041
 Ion Ratio Lower Upper
 96 100
 61 151.3 102.0 189.4
 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: 94.835 ug/L

RT: 4.26 min Scan# 960

Delta R.T. -0.01 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

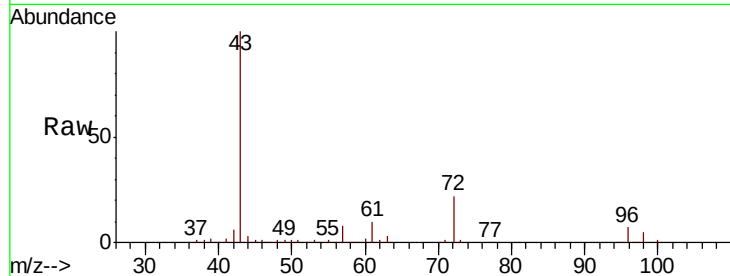
VSTD05049

Tgt Ion: 43 Resp: 139983

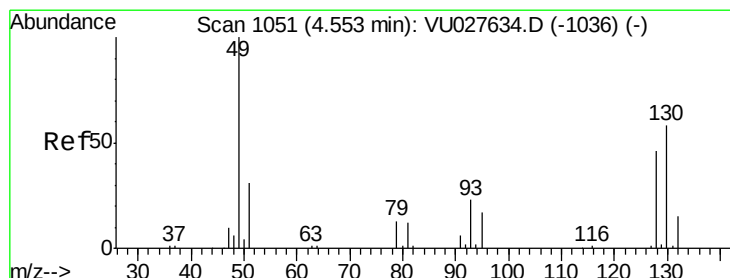
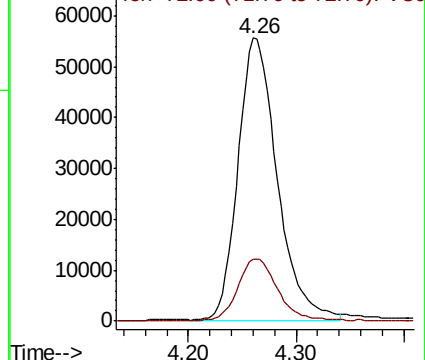
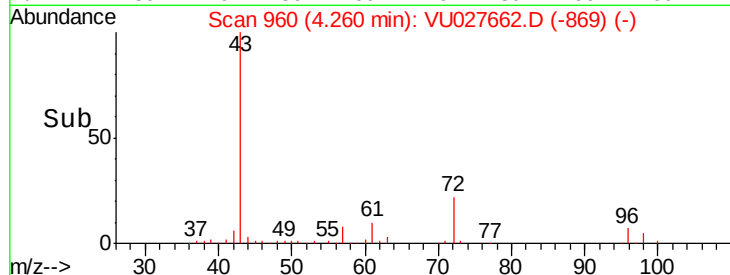
Ion Ratio Lower Upper

43 100

72 22.8 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU027662.D (-869) (-)



#23

Bromochloromethane

Concen: 47.719 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Tgt Ion: 128 Resp: 34171

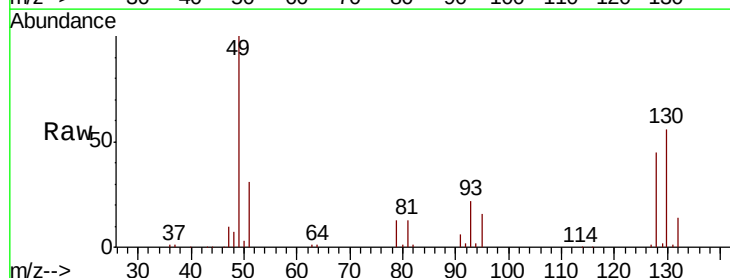
Ion Ratio Lower Upper

128 100

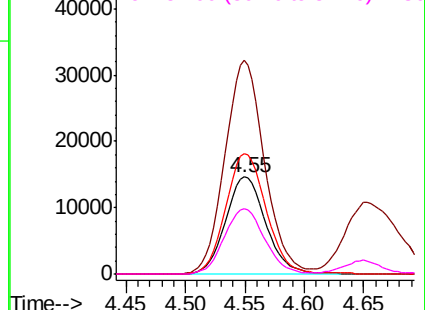
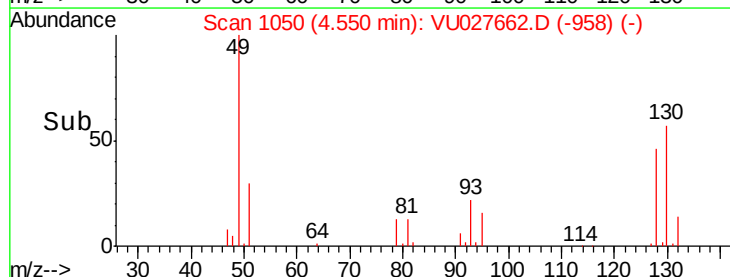
49 220.2 146.9 272.7

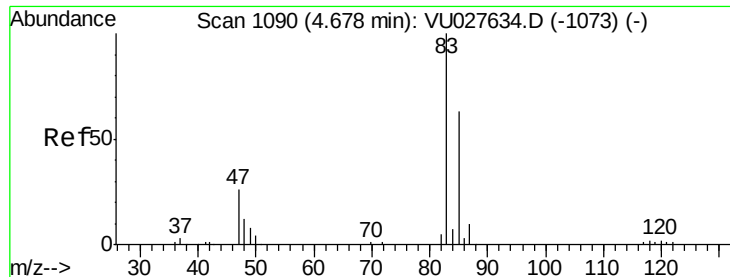
130 124.1 89.2 165.6

51 67.7 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU027662.D (-958) (-)

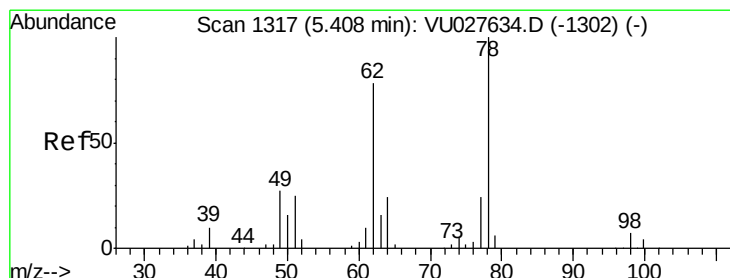
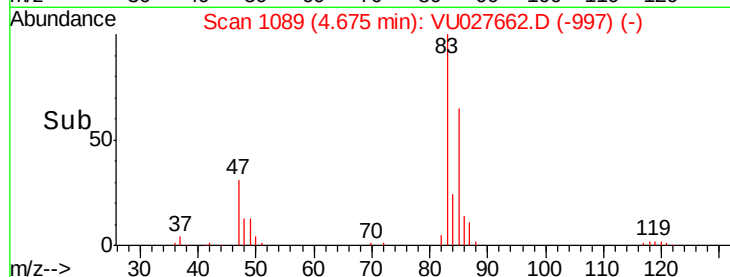
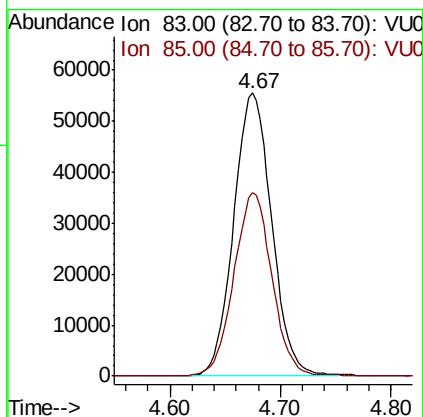
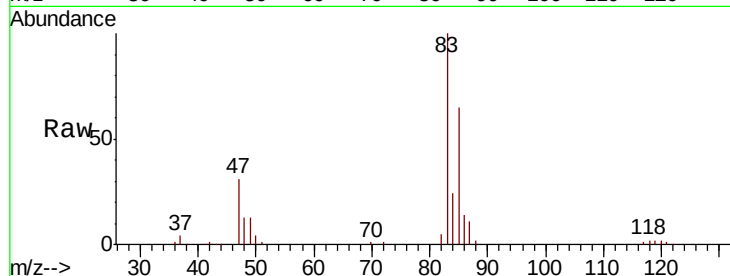




#25
Chloroform
Concen: 47.038 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

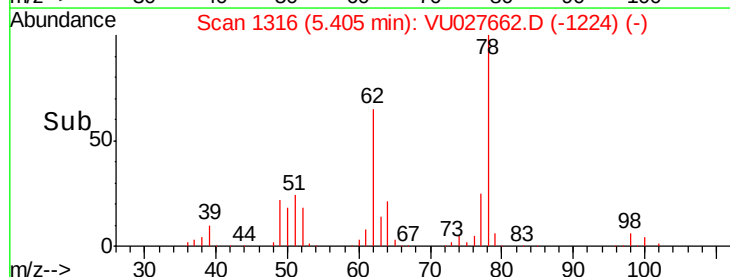
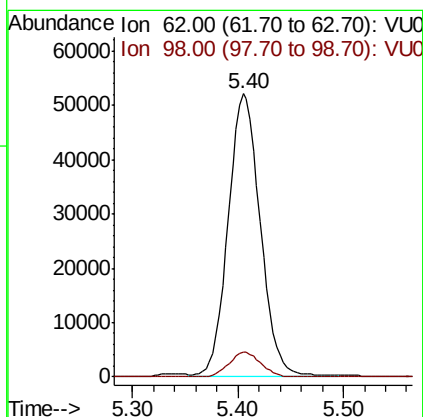
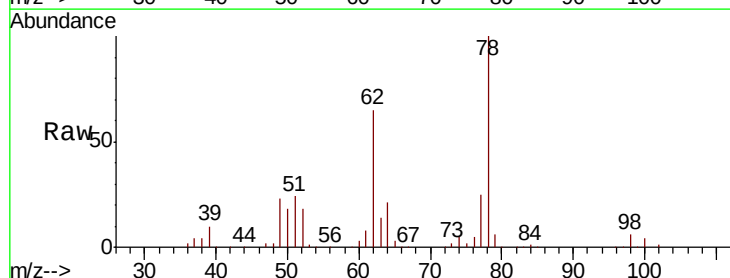
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

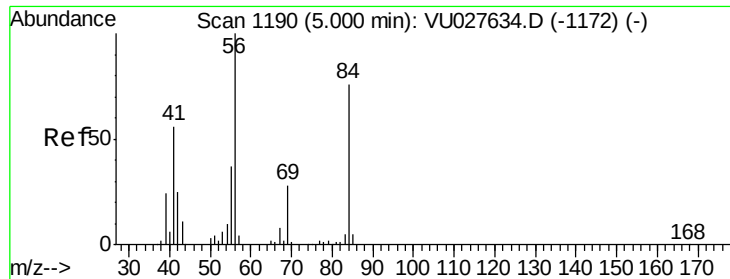
Tgt Ion: 83 Resp: 132813
Ion Ratio Lower Upper
83 100
85 64.8 45.0 83.6



#27
1,2-Dichloroethane
Concen: 48.209 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

Tgt Ion: 62 Resp: 109321
Ion Ratio Lower Upper
62 100
98 8.6 7.1 10.7

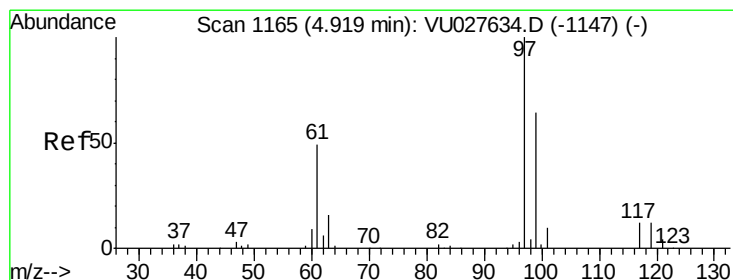
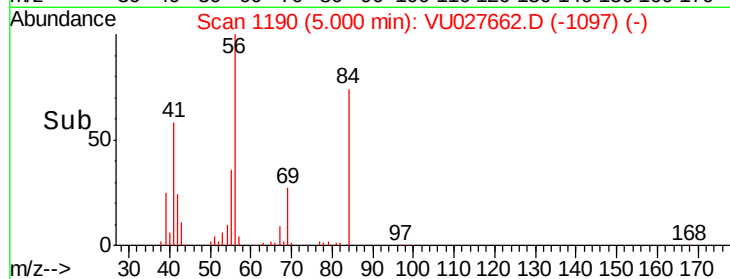
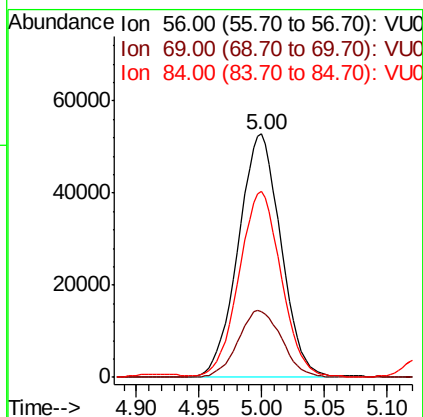
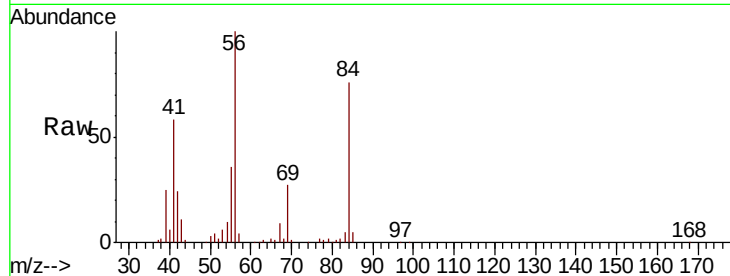




#29
Cyclohexane
Concen: 46.831 ug/L
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

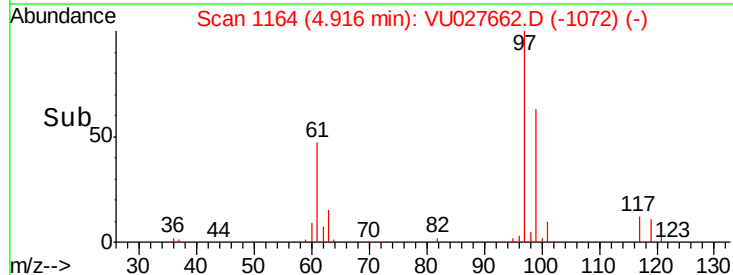
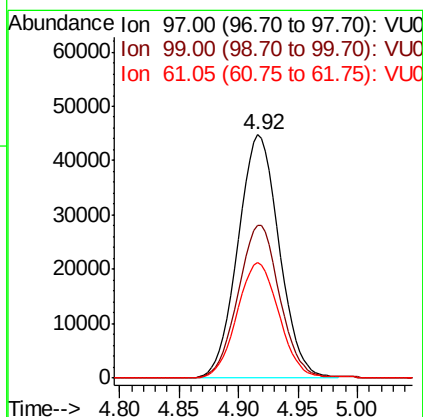
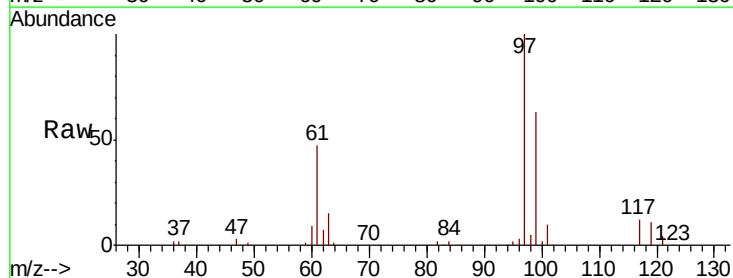
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

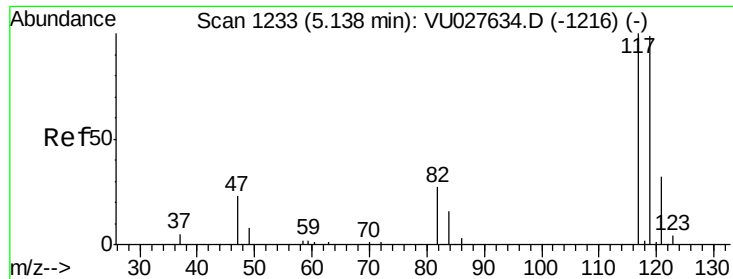
Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.1	22.5	33.7
84	74.9	60.9	91.3



#30
1,1,1-Trichloroethane
Concen: 51.132 ug/L
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.9	76.3
61	48.3	38.2	57.4





#31

Carbon tetrachloride

Concen: 51.096 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

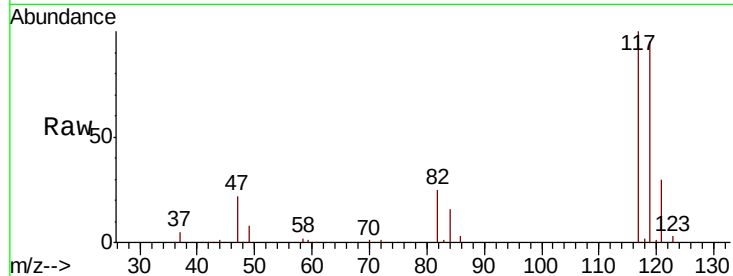
VSTD05049

Tgt Ion:117 Resp: 90665

Ion Ratio Lower Upper

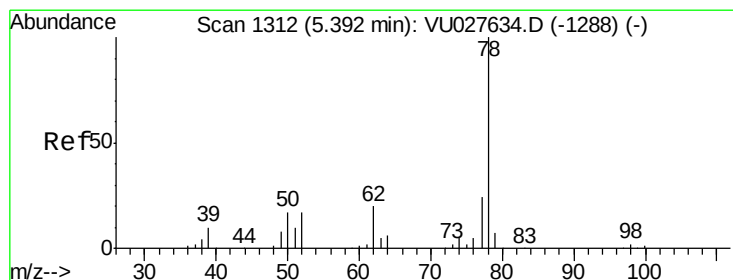
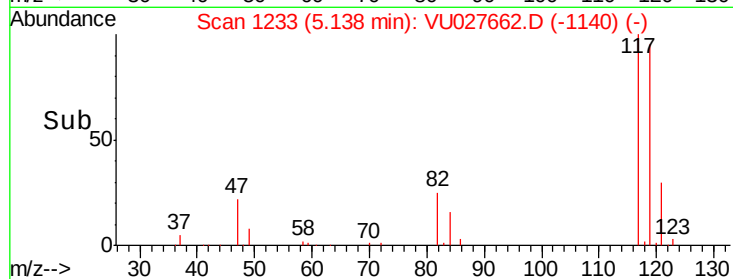
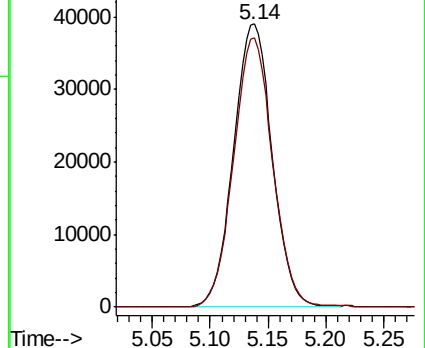
117 100

119 95.8 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.124 ug/L

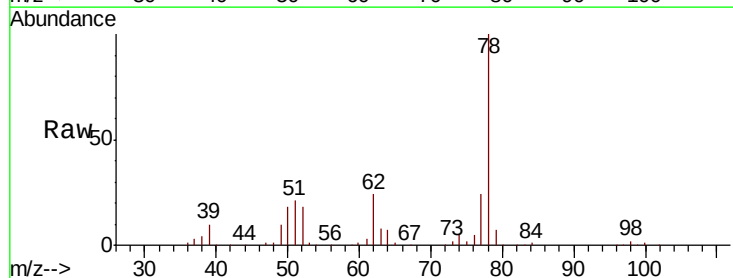
RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

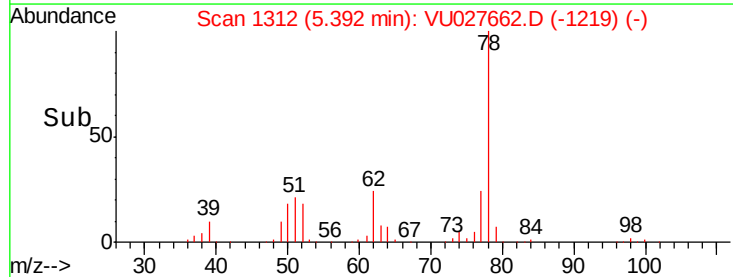
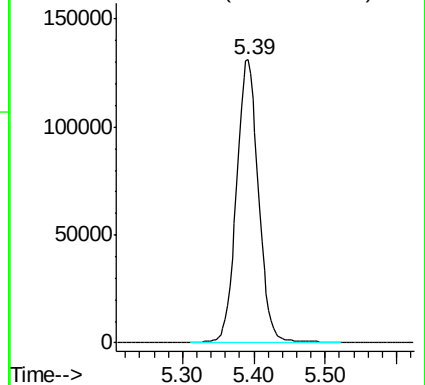
Lab File: VU027662.D

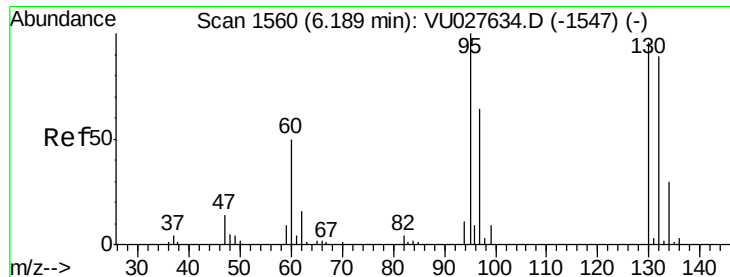
Acq: 15 Oct 2018 13:19

Tgt Ion: 78 Resp: 284627



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 46.352 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 95 Resp: 64588

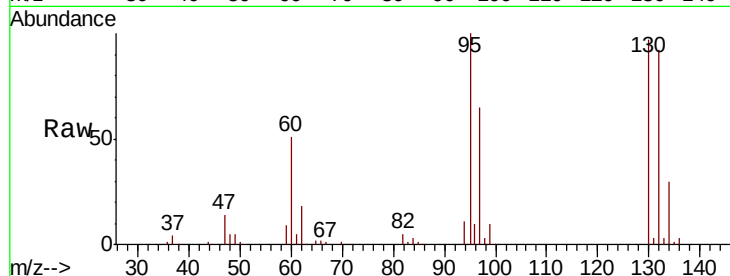
Ion Ratio Lower Upper

95 100

97 65.1 44.9 83.3

132 92.1 64.8 120.4

130 97.0 67.1 124.7



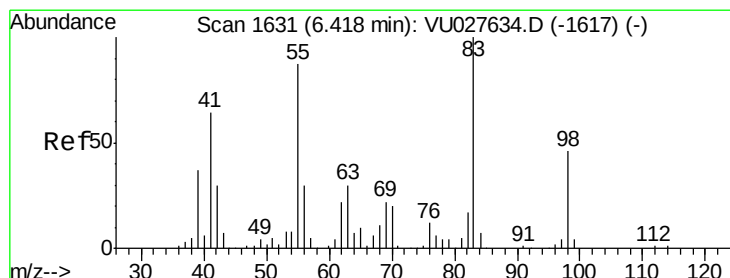
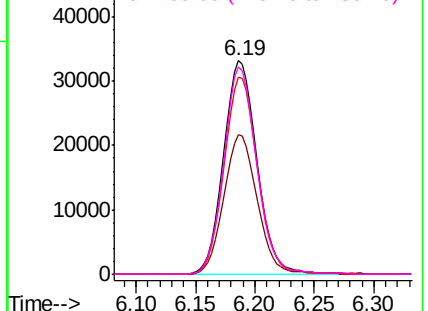
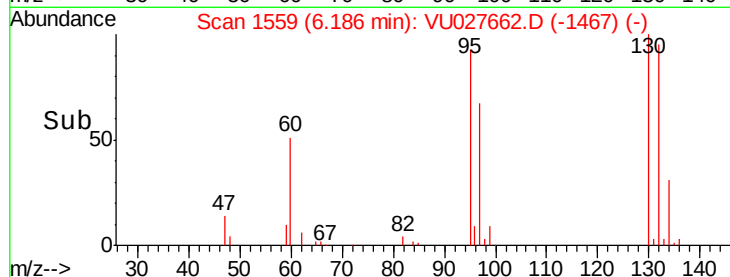
Abundance

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: 46.134 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

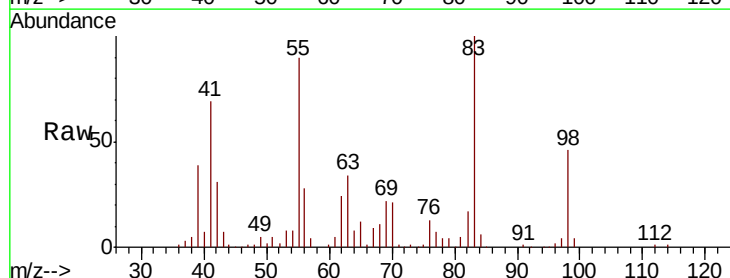
Tgt Ion: 83 Resp: 111695

Ion Ratio Lower Upper

83 100

55 91.3 69.9 104.9

98 47.2 37.1 55.7

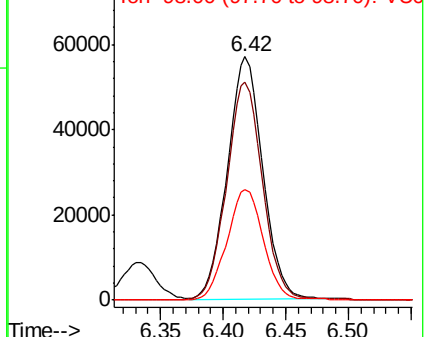
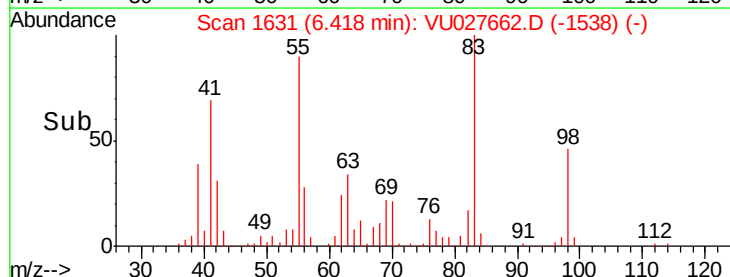


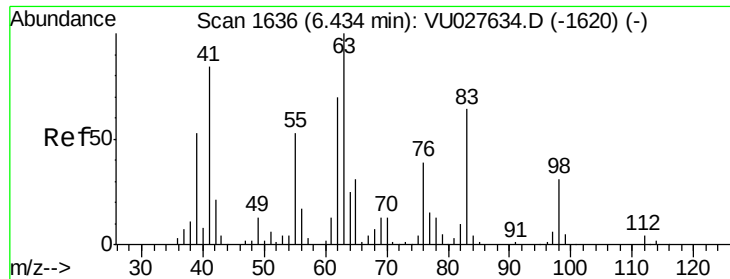
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

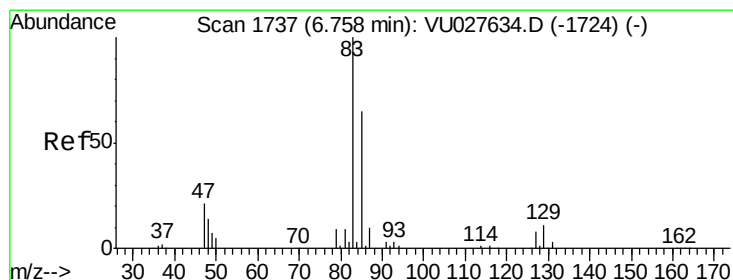
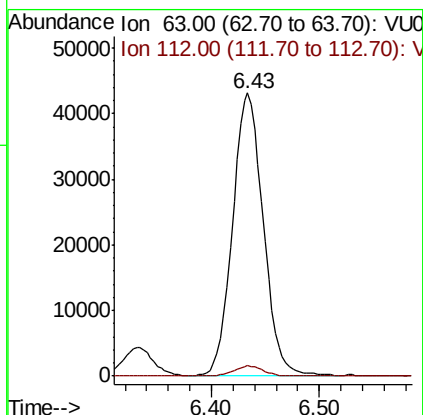
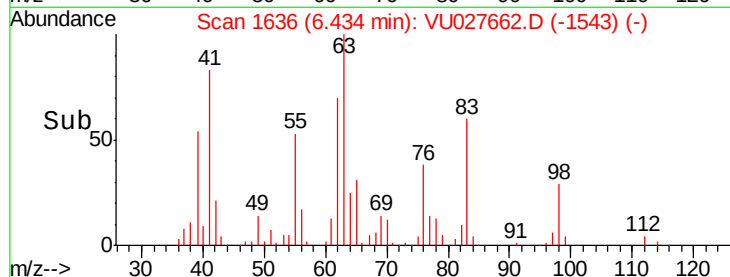
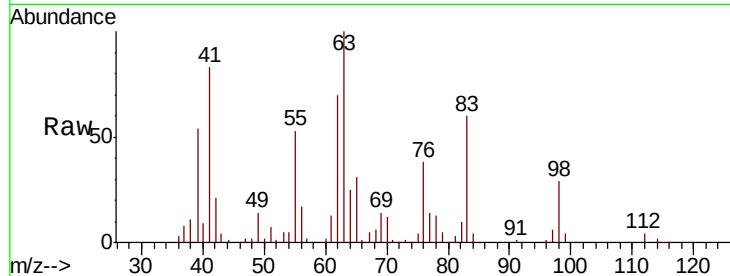




#37
 1,2-Dichloropropane
 Concen: 51.168 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

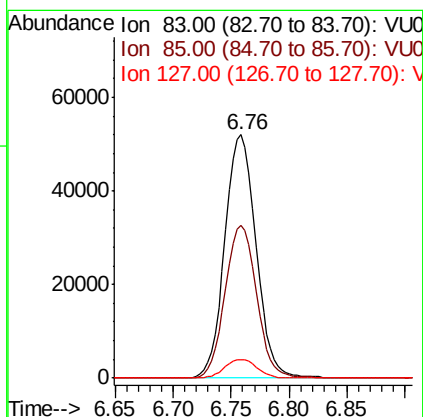
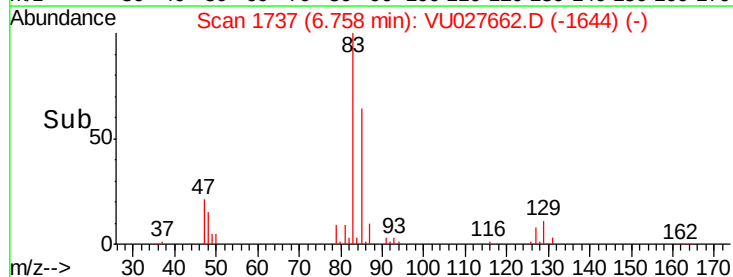
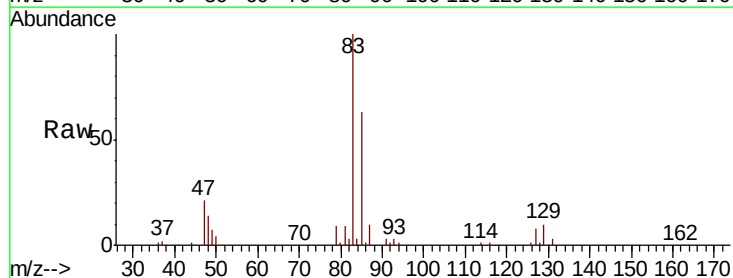
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

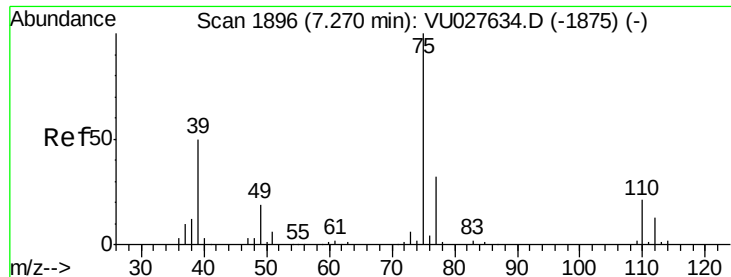
Tgt Ion: 63 Resp: 85895
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.9 4.3



#38
 Bromodichloromethane
 Concen: 50.996 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion: 83 Resp: 97278
 Ion Ratio Lower Upper
 83 100
 85 62.8 45.1 83.7
 127 7.7 6.3 9.5

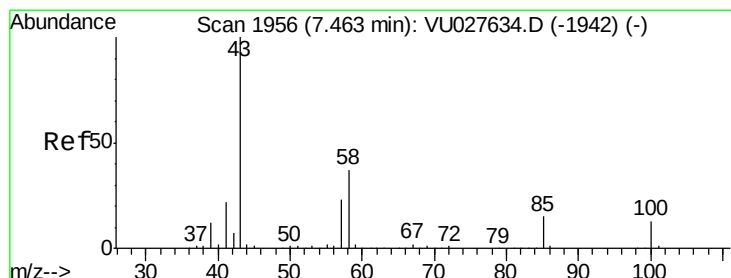
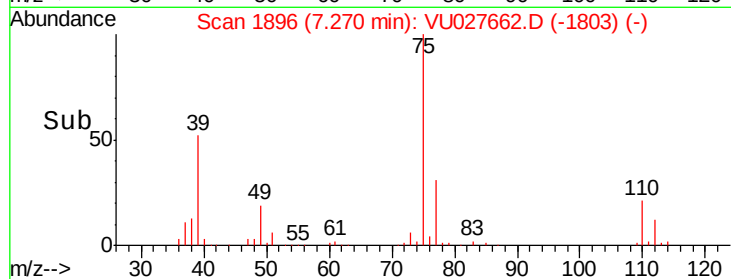
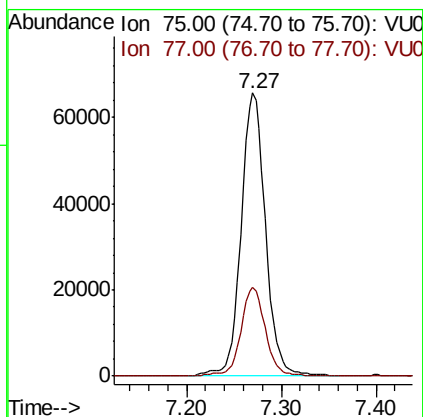
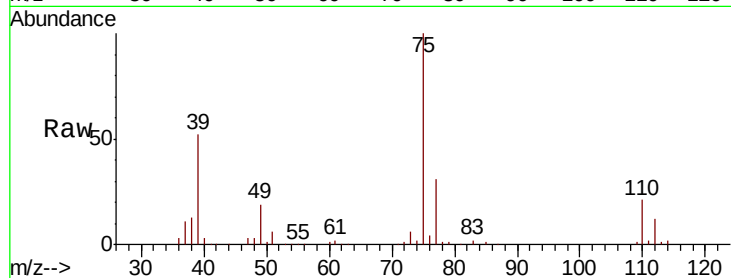




#39
 cis-1,3-Dichloropropene
 Concen: 47.677 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

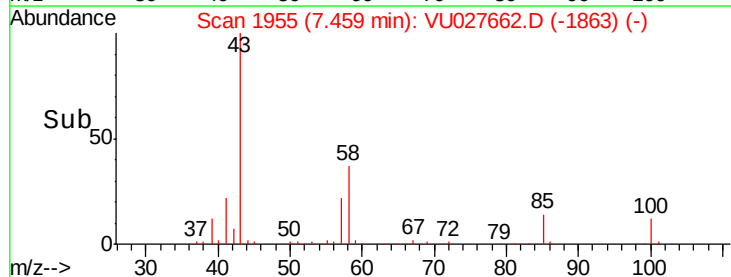
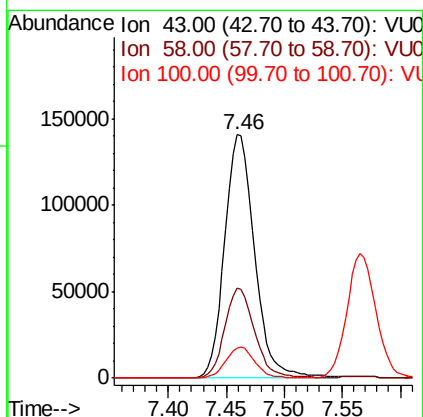
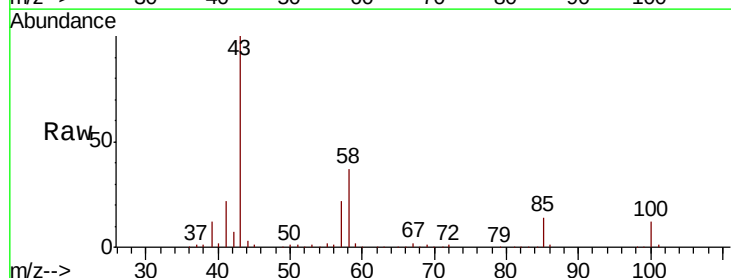
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

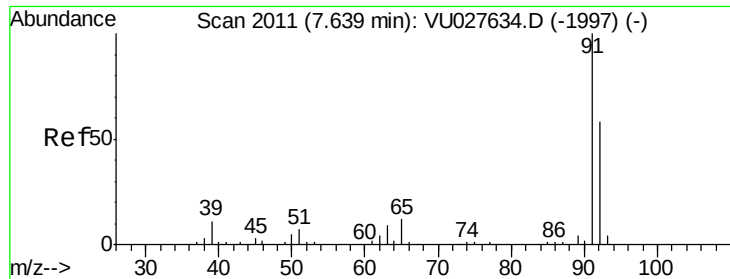
Tgt Ion: 75 Resp: 117601
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 102.578 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion: 43 Resp: 252155
 Ion Ratio Lower Upper
 43 100
 58 36.8 30.7 46.1
 100 12.3 10.2 15.4





#42

Toluene

Concen: 48.703 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

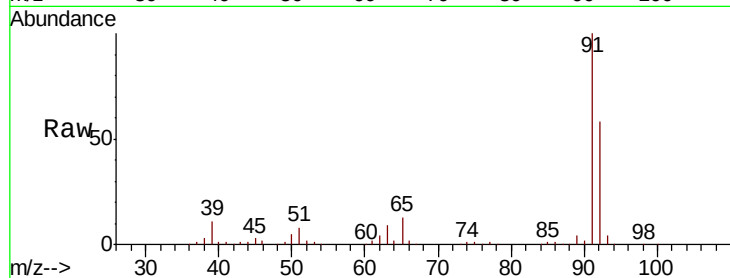
VSTD05049

Tgt Ion: 91 Resp: 283140

Ion Ratio Lower Upper

91 100

92 58.3 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU027634.D (-1997) (-)

Ion 92.00 (91.70 to 92.70): VU027634.D (-1997) (-)

7.64

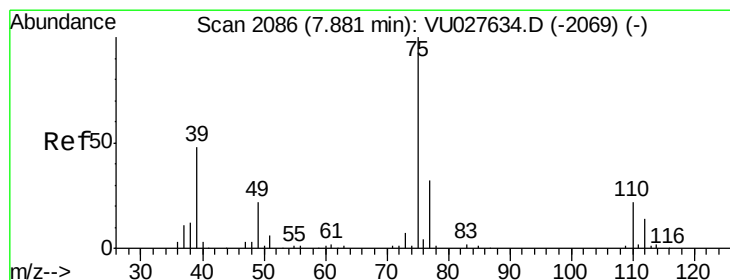
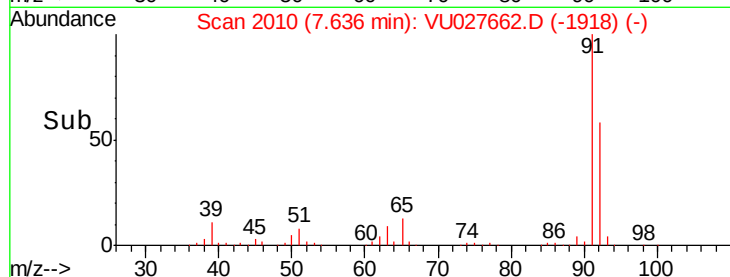
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 47.527 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU027662.D

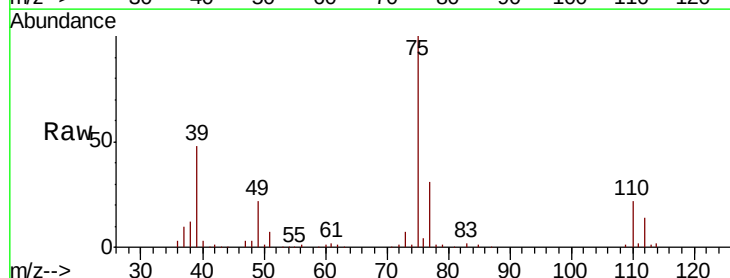
Acq: 15 Oct 2018 13:19

Tgt Ion: 75 Resp: 108817

Ion Ratio Lower Upper

75 100

77 30.9 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU027634.D (-2069) (-)

Ion 77.00 (76.70 to 77.70): VU027634.D (-2069) (-)

7.88

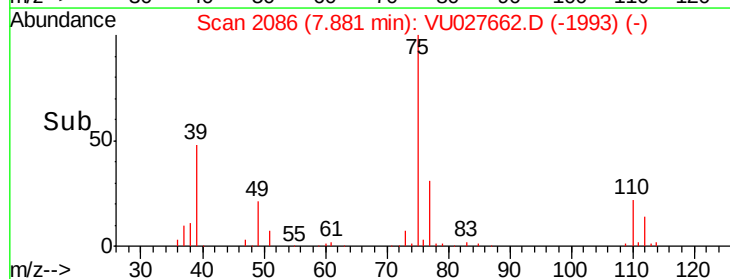
60000

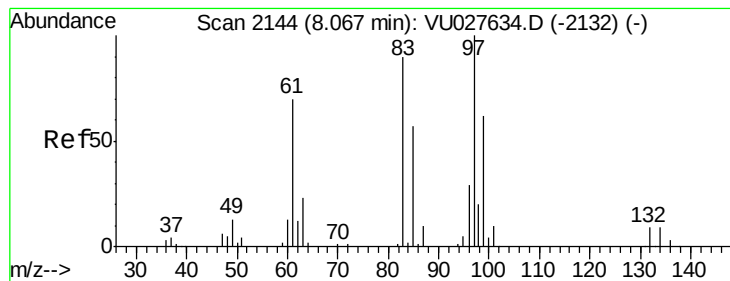
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 48.557 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 97 Resp: 65433

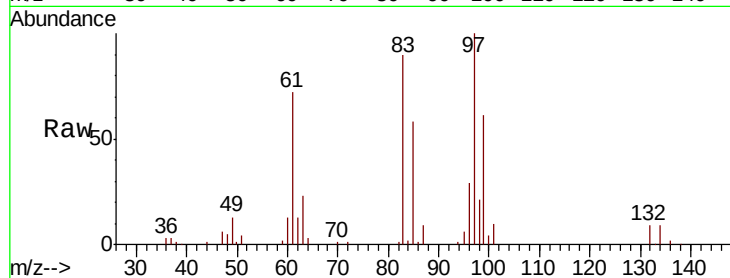
Ion Ratio Lower Upper

97 100

99 60.8 43.2 80.2

83 90.3 64.3 119.5

85 58.3 41.0 76.2



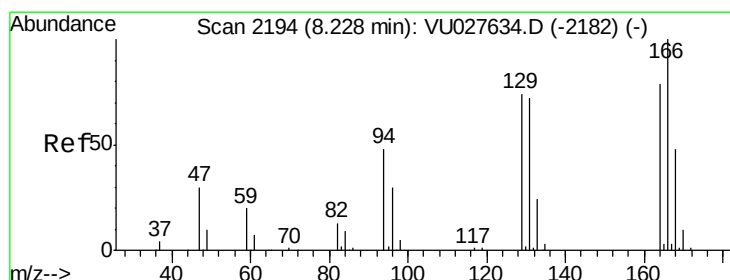
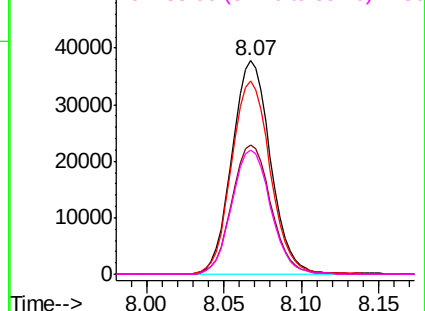
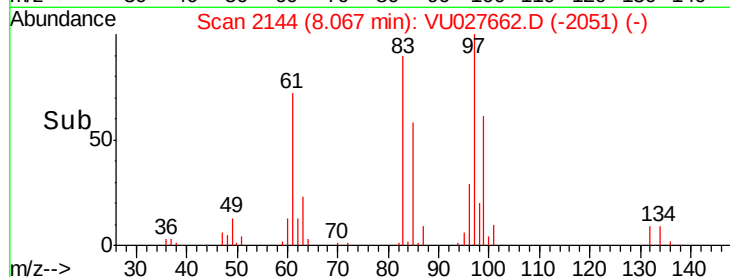
Abundance

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: 43.641 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Tgt Ion: 164 Resp: 45194

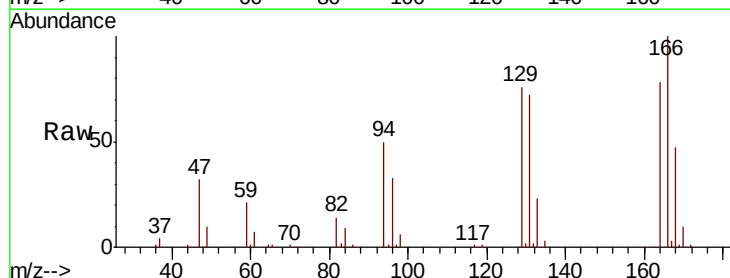
Ion Ratio Lower Upper

164 100

129 97.6 67.0 124.4

131 92.6 65.1 120.9

166 128.8 90.4 167.8



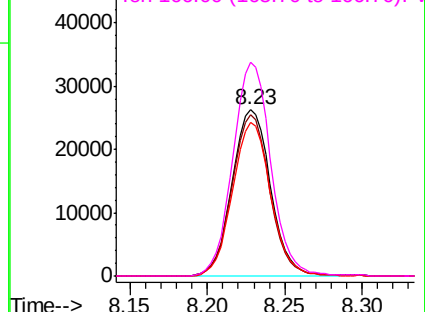
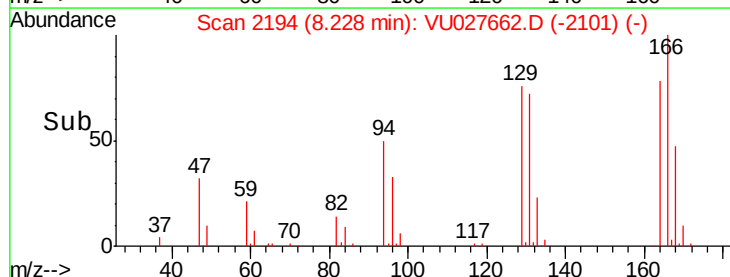
Abundance

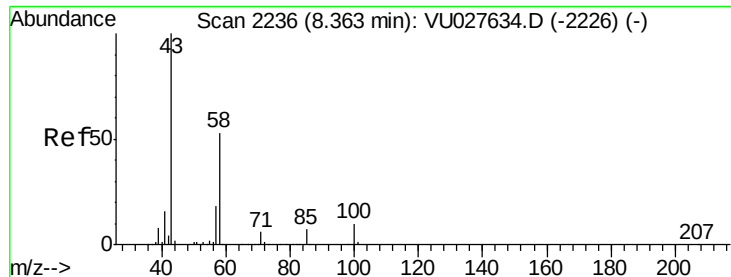
Ion 164.00 (163.70 to 164.70): V

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

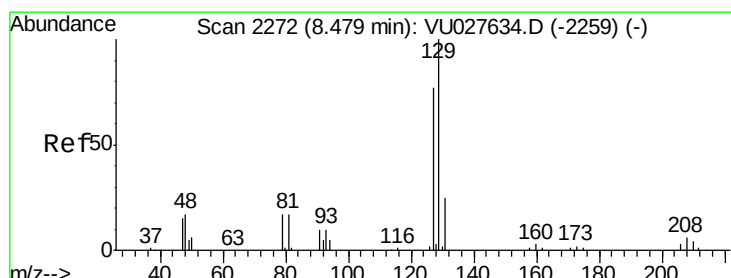
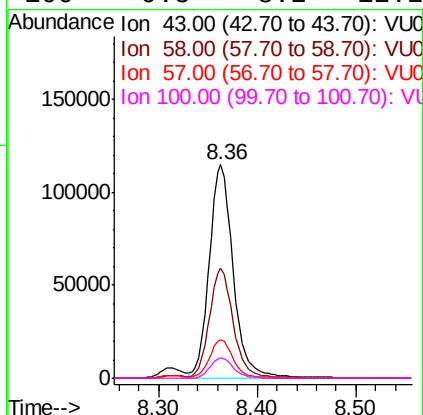
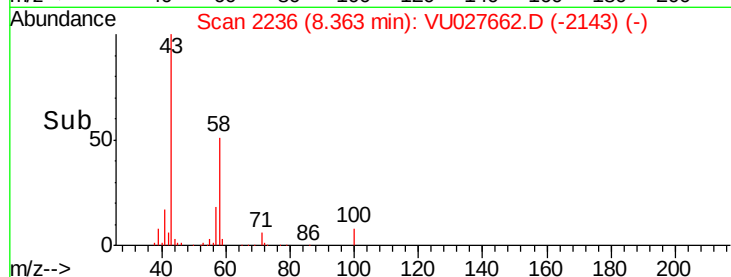
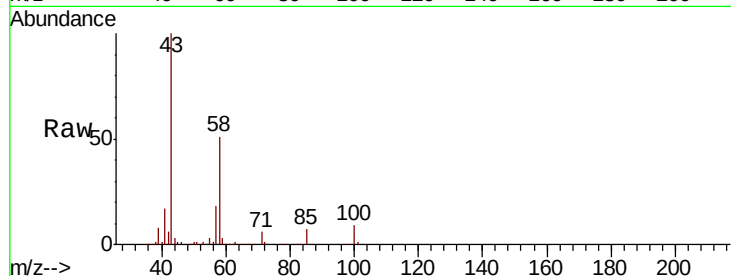




#48
2-Hexanone
Concen: 99.886 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

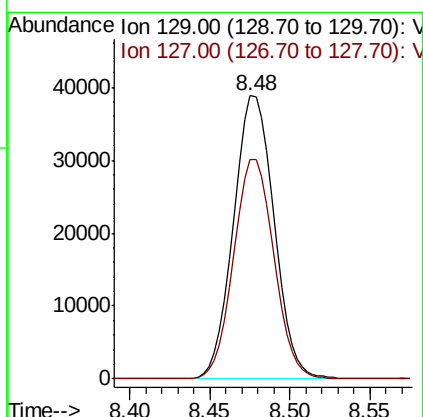
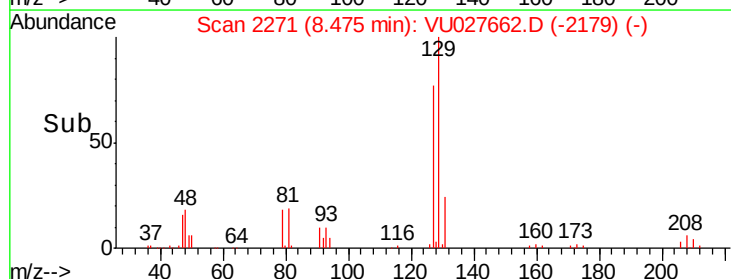
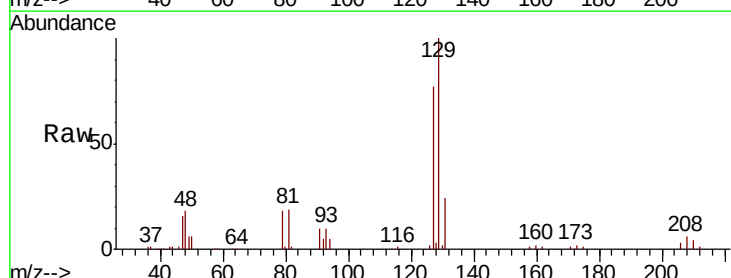
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

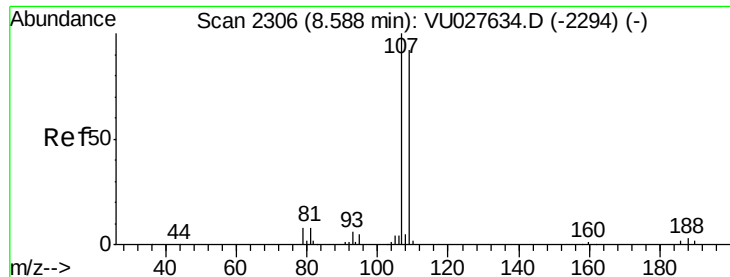
Tgt Ion: 43 Resp: 193883
Ion Ratio Lower Upper
43 100
58 51.9 42.7 64.1
57 18.1 14.5 21.7
100 9.5 8.2 12.2



#49
Dibromochloromethane
Concen: 47.914 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

Tgt Ion: 129 Resp: 67325
Ion Ratio Lower Upper
129 100
127 77.4 52.7 97.9

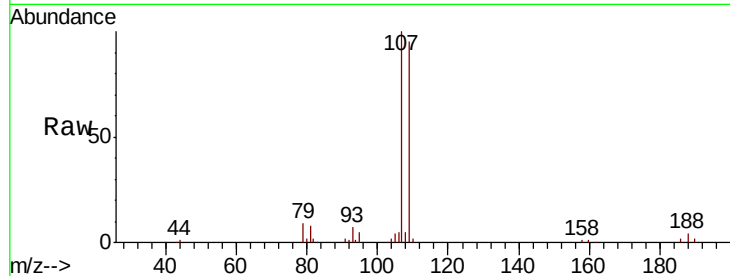




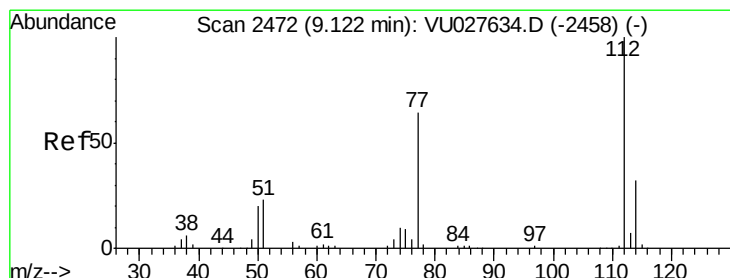
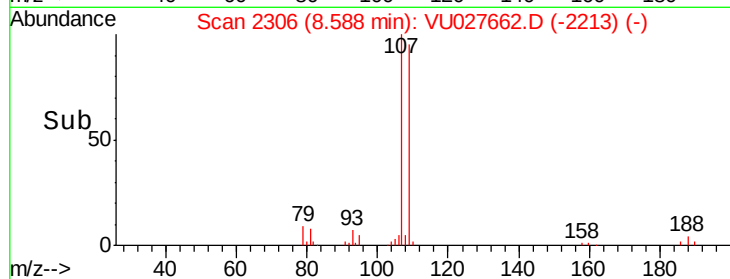
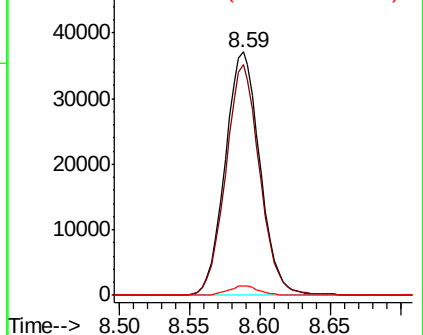
#50
 1,2-Dibromoethane
 Concen: 44.796 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion:107 Resp: 64041
 Ion Ratio Lower Upper
 107 100
 109 94.7 65.5 121.6
 188 3.9 3.0 4.6

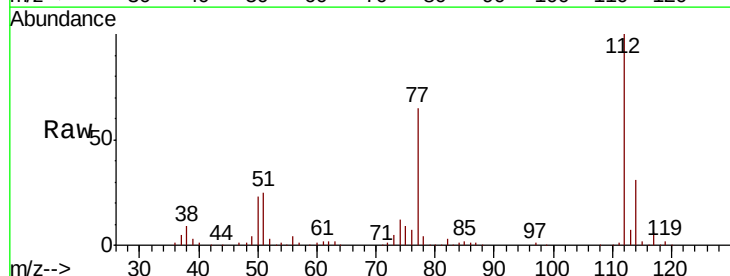


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

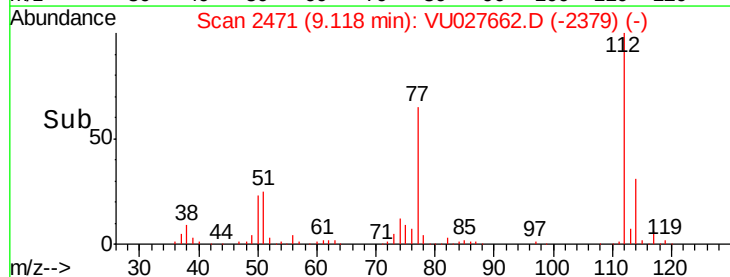
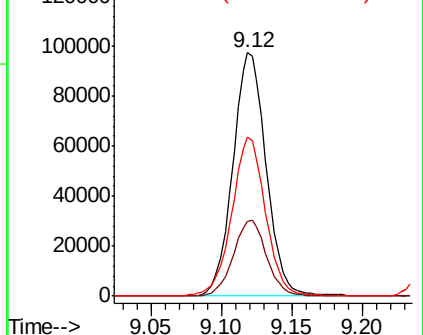


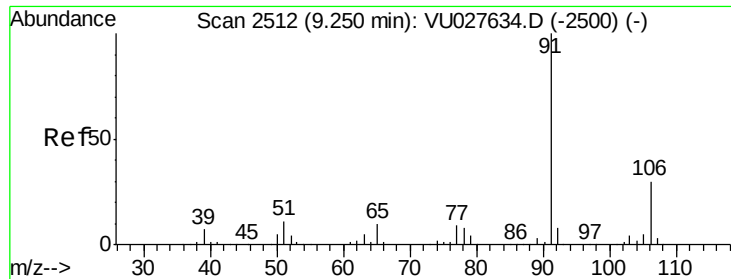
#51
 Chlorobenzene
 Concen: 43.854 ug/L
 RT: 9.12 min Scan# 2471
 Delta R.T. -0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion:112 Resp: 161181
 Ion Ratio Lower Upper
 112 100
 114 30.9 22.3 41.5
 77 65.2 51.7 77.5



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 44.980 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

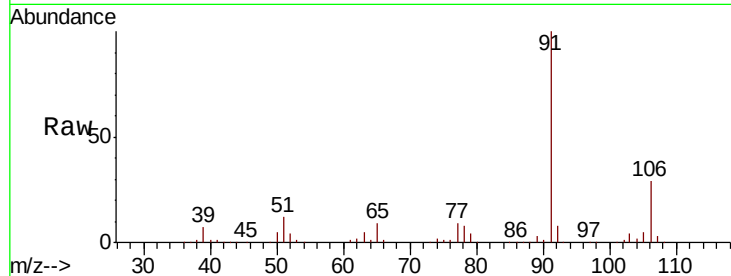
VSTD05049

Tgt Ion: 91 Resp: 290349

Ion Ratio Lower Upper

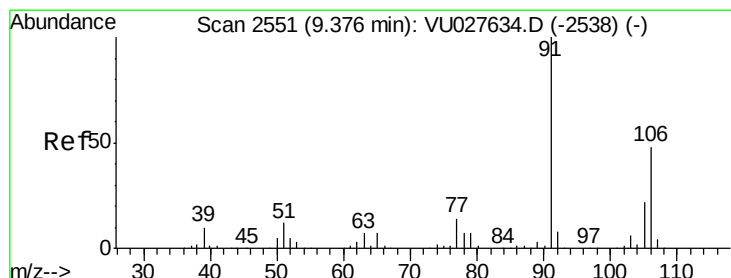
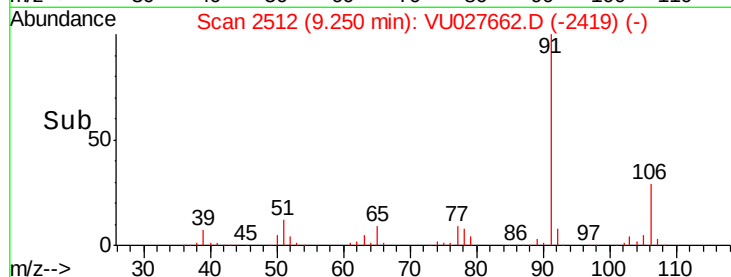
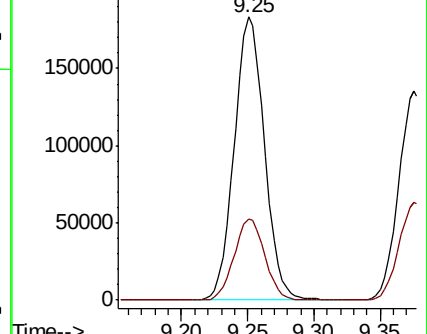
91 100

106 28.8 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 44.255 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027662.D

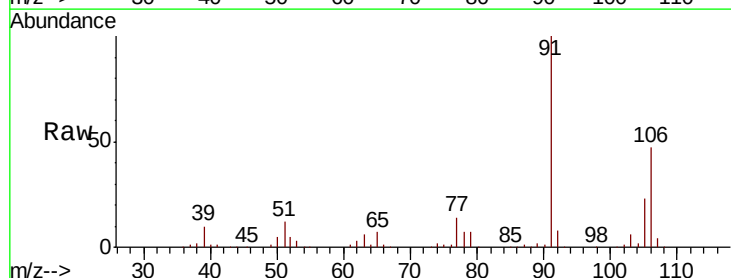
Acq: 15 Oct 2018 13:19

Tgt Ion: 106 Resp: 104559

Ion Ratio Lower Upper

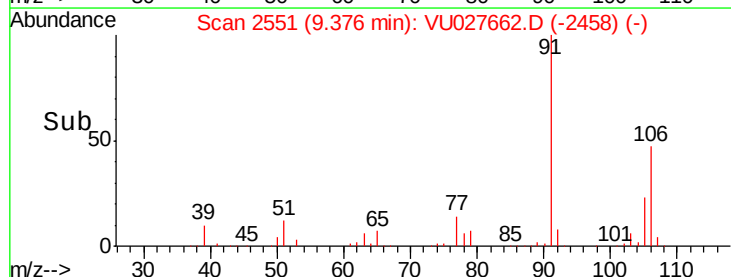
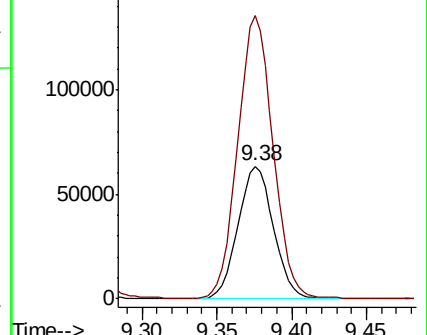
106 100

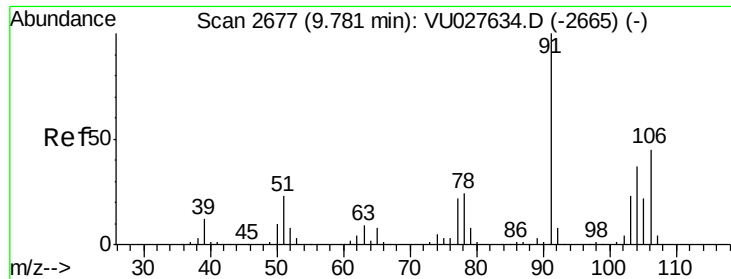
91 213.7 145.0 269.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

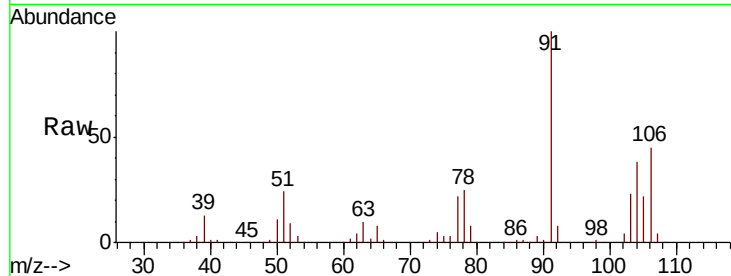




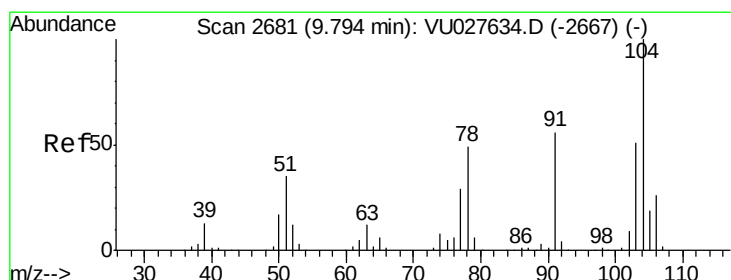
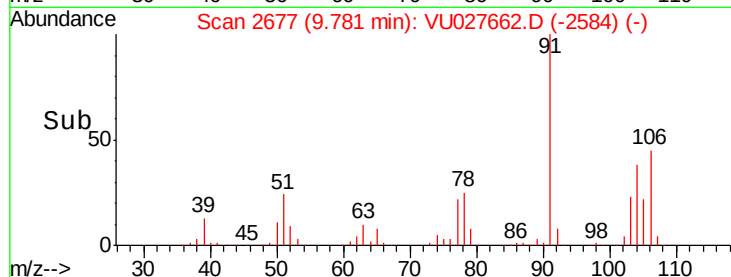
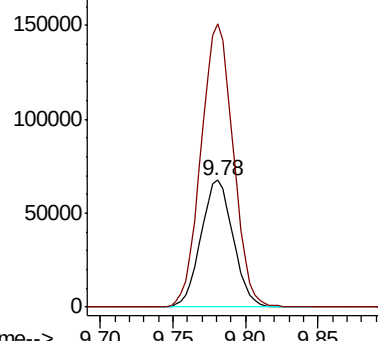
#54
o-xylene
Concen: 45.861 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tgt Ion:106 Resp: 104384
Ion Ratio Lower Upper
106 100
91 222.6 154.8 287.4

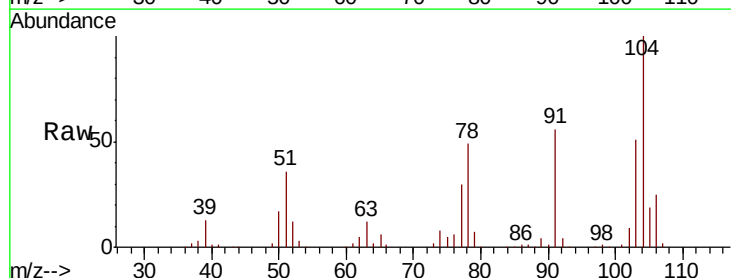


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

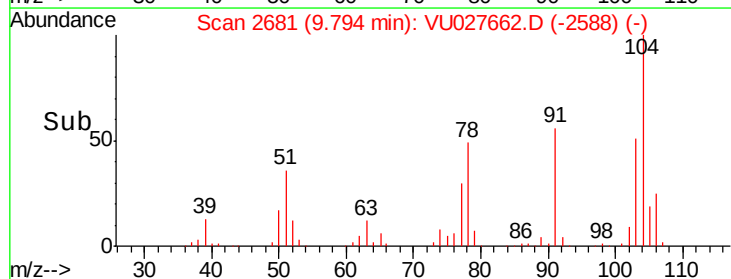
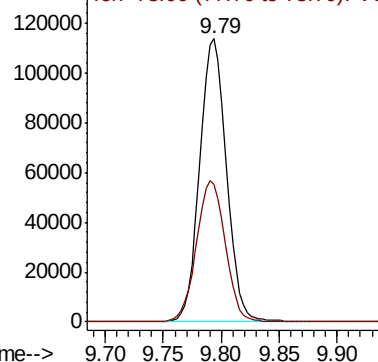


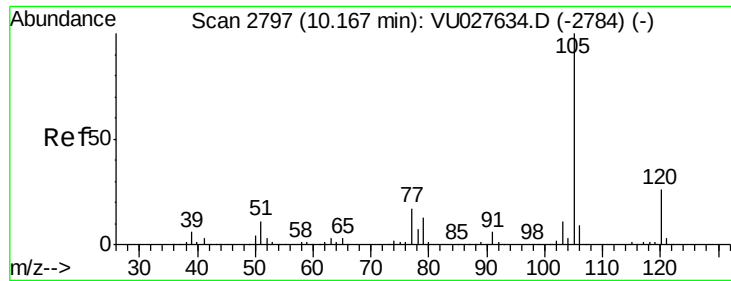
#55
Styrene
Concen: 46.473 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027662.D
Acq: 15 Oct 2018 13:19

Tgt Ion:104 Resp: 181136
Ion Ratio Lower Upper
104 100
78 48.6 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 45.879 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

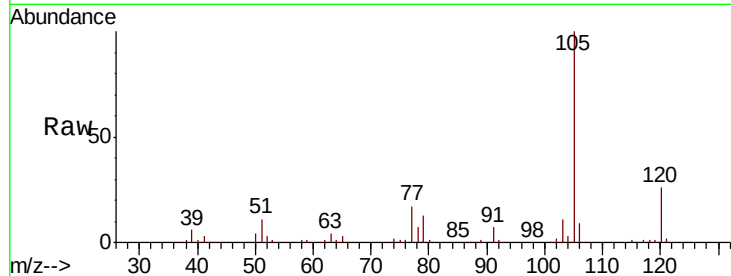
Tgt Ion: 105 Resp: 273659

Ion Ratio Lower Upper

105 100

120 25.5 20.6 30.8

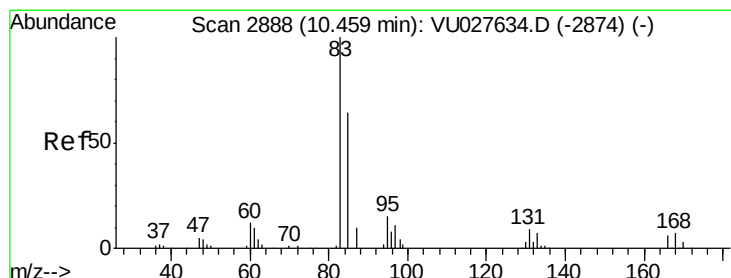
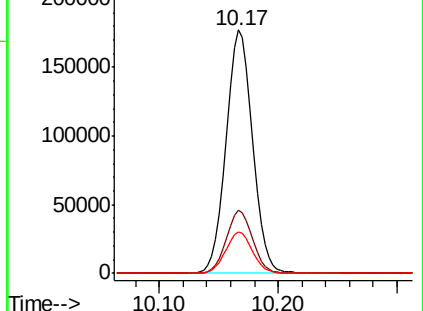
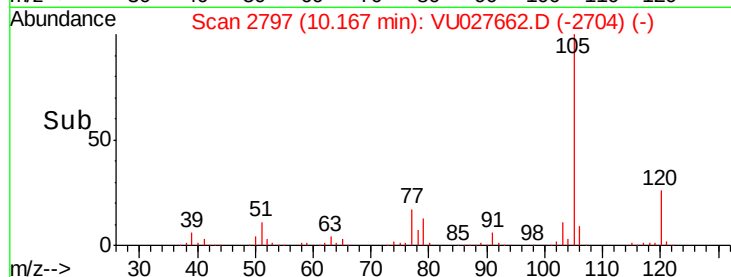
77 17.1 13.0 19.4



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: 47.082 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

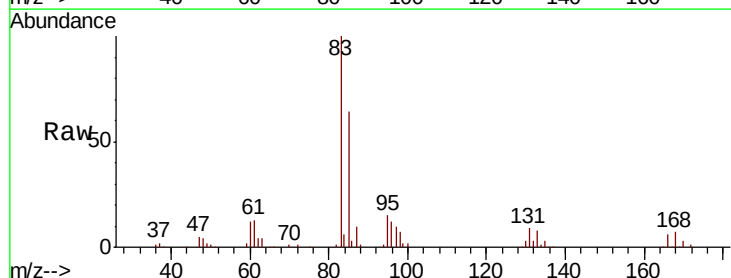
Tgt Ion: 83 Resp: 111163

Ion Ratio Lower Upper

83 100

85 64.3 45.2 84.0

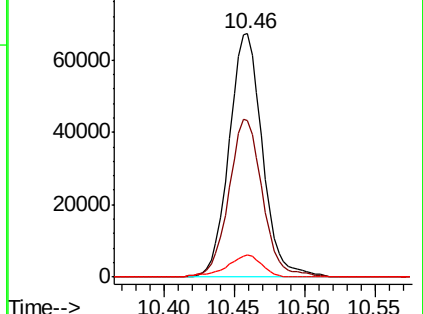
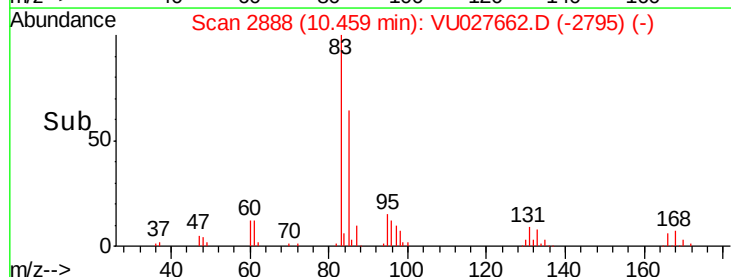
131 9.1 6.7 10.1

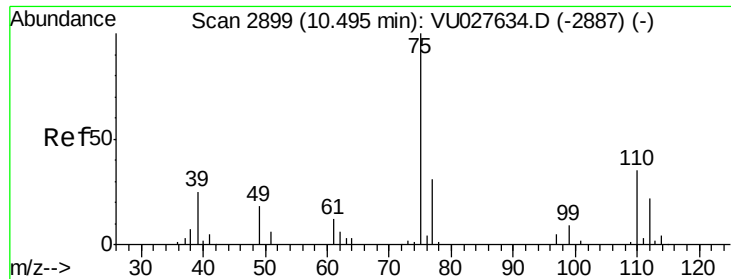


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.885 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

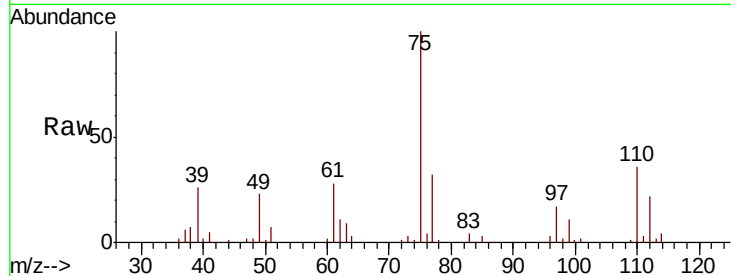
VSTD05049

Tgt Ion: 75 Resp: 92906

Ion Ratio Lower Upper

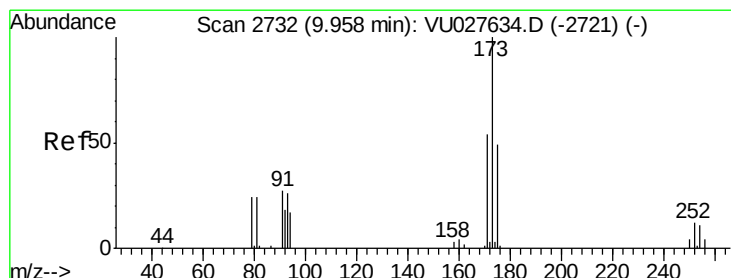
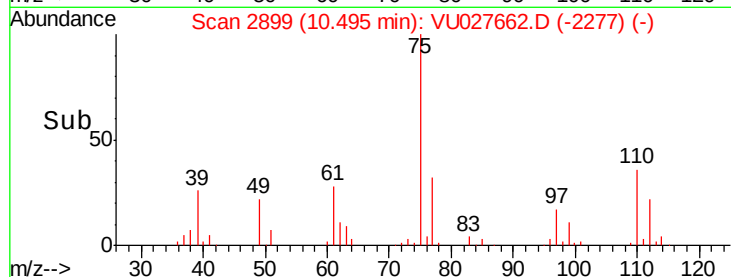
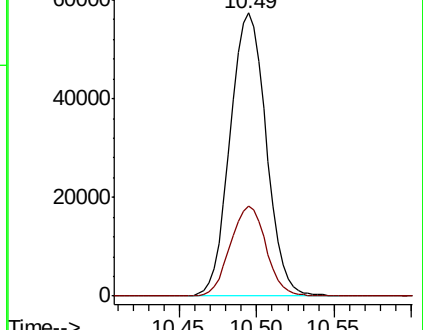
75 100

77 31.5 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU027634.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU027634.D (-2887) (-)



#61

Bromoform

Concen: 49.244 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

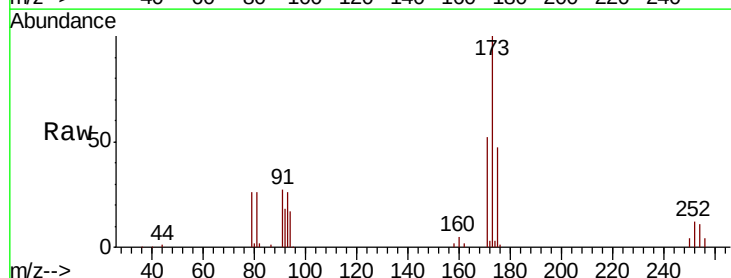
Tgt Ion: 173 Resp: 46440

Ion Ratio Lower Upper

173 100

175 47.9 39.0 58.4

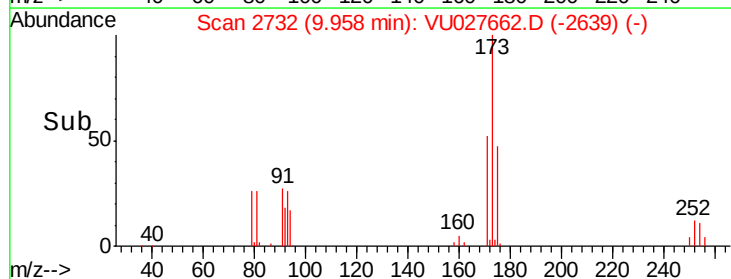
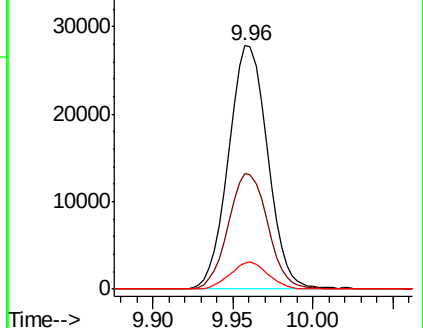
254 10.7 8.3 12.5

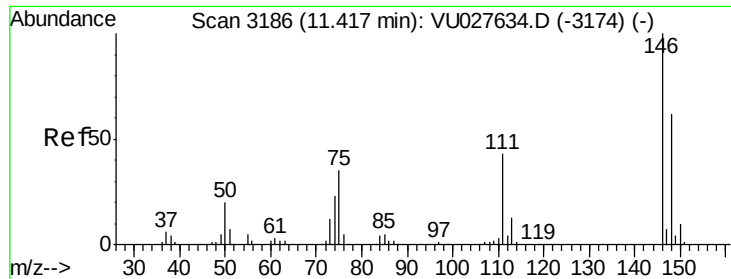


Abundance Ion 173.00 (172.70 to 173.70): VU027634.D (-2721) (-)

Ion 175.00 (174.70 to 175.70): VU027634.D (-2721) (-)

Ion 254.00 (253.70 to 254.70): VU027634.D (-2721) (-)

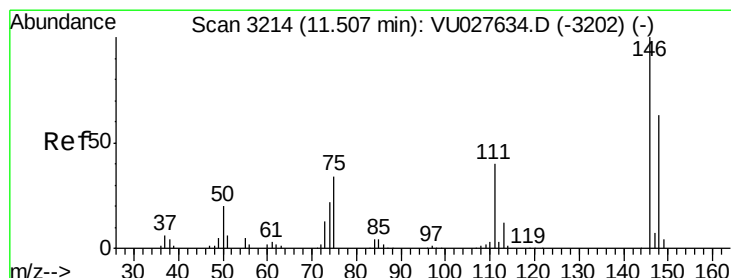
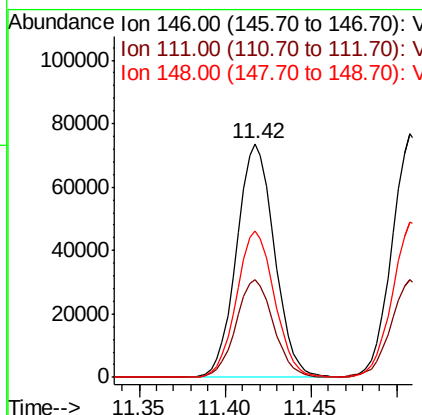
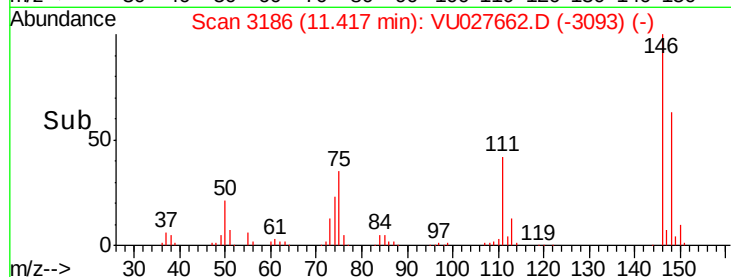
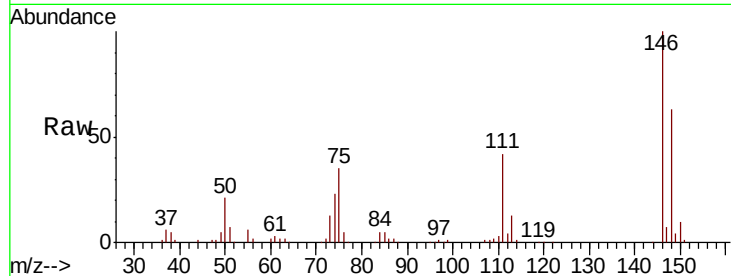




#62
 1,3-Dichlorobenzene
 Concen: 43.662 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

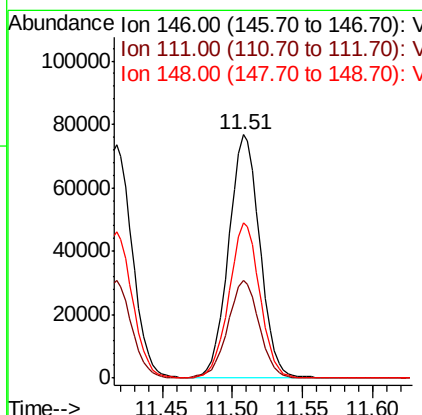
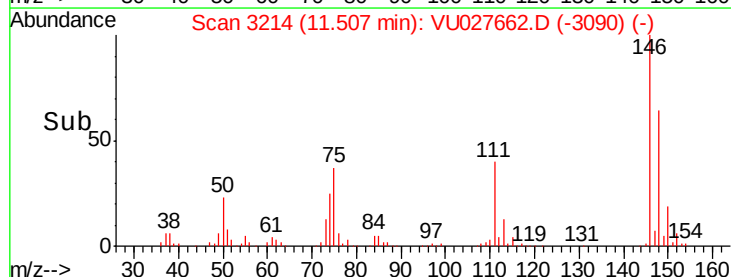
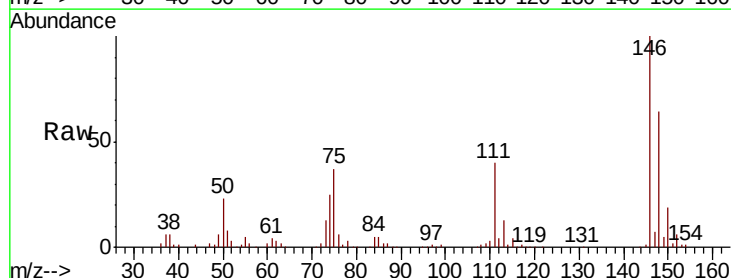
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

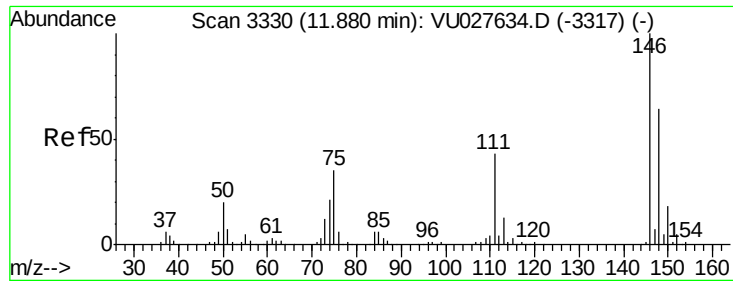
Tgt Ion:146 Resp: 112785
 Ion Ratio Lower Upper
 146 100
 111 41.8 29.0 53.8
 148 62.6 45.4 84.2



#63
 1,4-Dichlorobenzene
 Concen: 44.161 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion:146 Resp: 118989
 Ion Ratio Lower Upper
 146 100
 111 39.9 28.1 52.1
 148 63.7 44.4 82.5

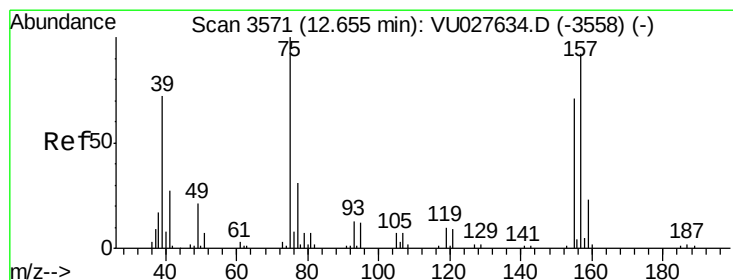
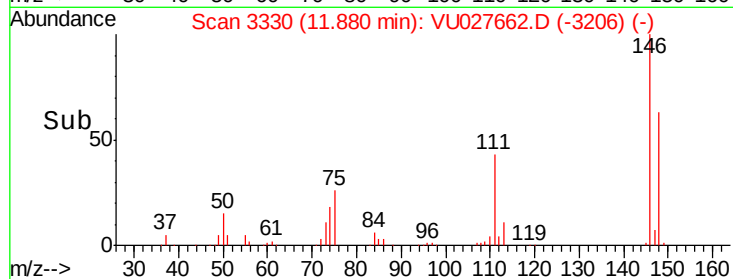
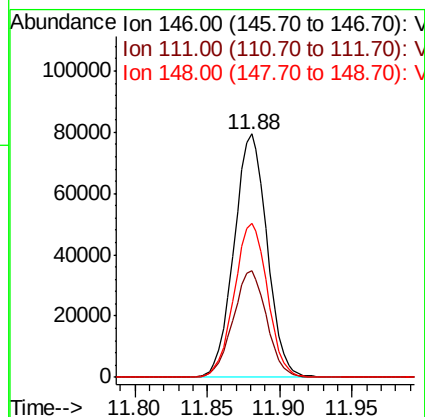
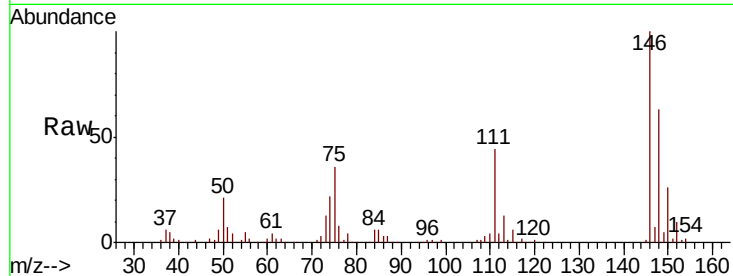




#65
 1,2-Dichlorobenzene
 Concen: 47.670 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

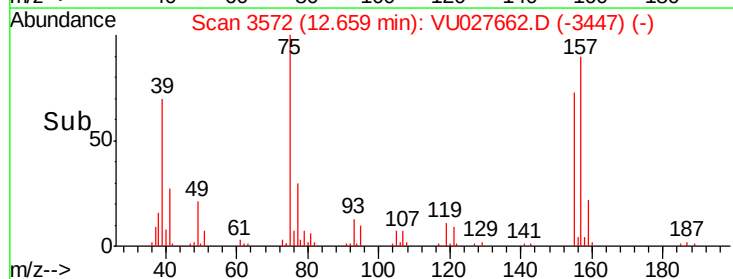
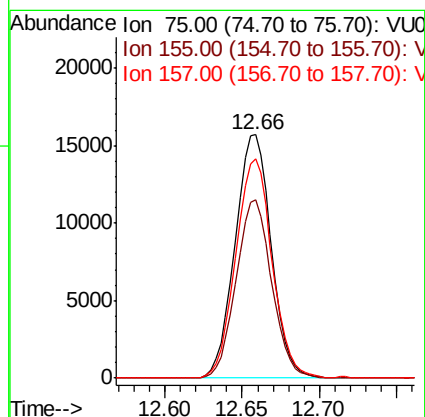
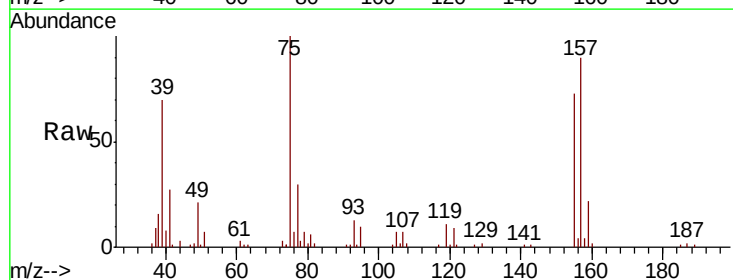
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

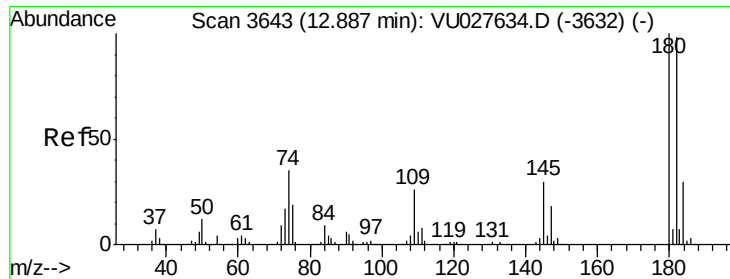
Tgt Ion: 146 Resp: 125353
 Ion Ratio Lower Upper
 146 100
 111 43.8 34.9 52.3
 148 63.4 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.215 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion: 75 Resp: 25453
 Ion Ratio Lower Upper
 75 100
 155 73.0 61.0 91.6
 157 90.2 77.8 116.8

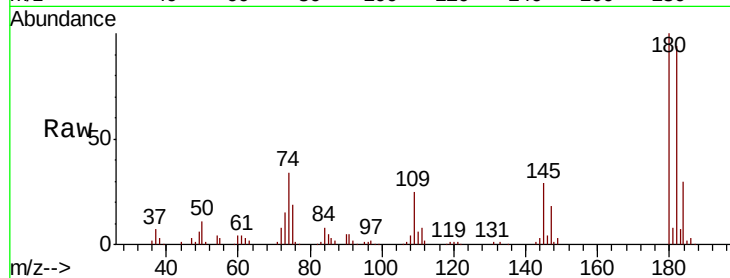




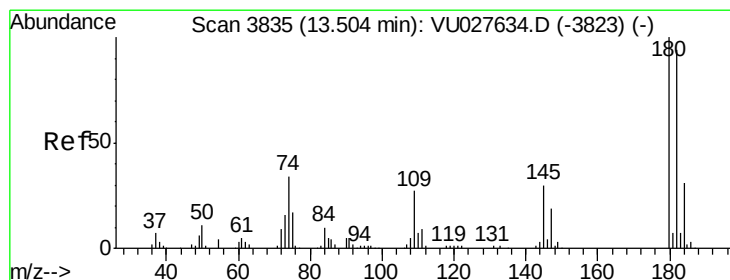
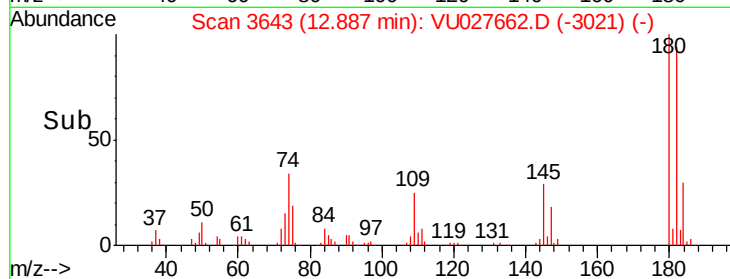
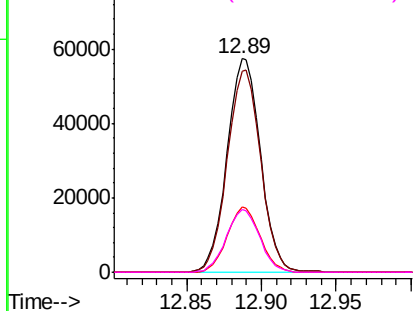
#67
 1,3,5-Trichlorobenzene
 Concen: 44.764 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion:180 Resp: 89339
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.7 115.1
 184 29.8 24.5 36.7
 145 29.2 23.8 35.8

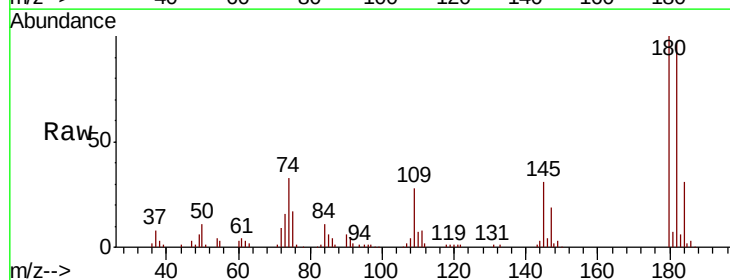


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

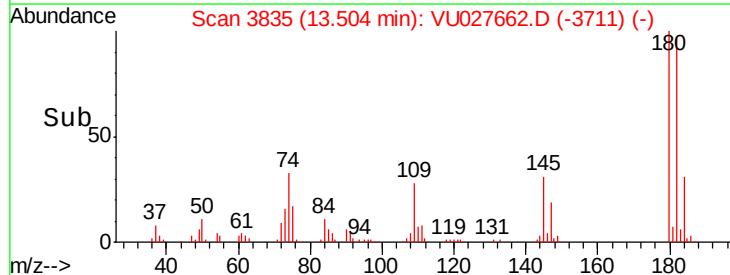
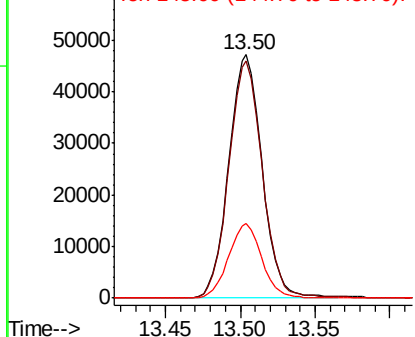


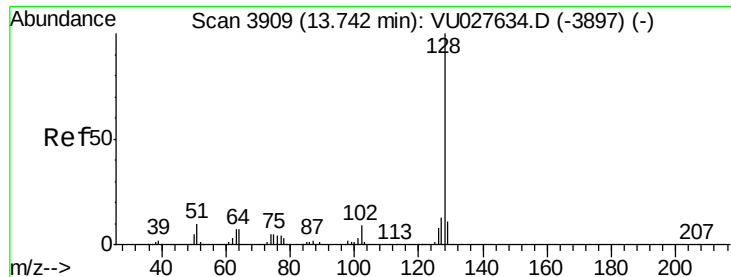
#68
 1,2,4-trichlorobenzene
 Concen: 39.999 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027662.D
 Acq: 15 Oct 2018 13:19

Tgt Ion:180 Resp: 73411
 Ion Ratio Lower Upper
 180 100
 182 97.5 76.3 114.5
 145 30.4 24.2 36.2



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





#69

Naphthalene

Concen: 46.479 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

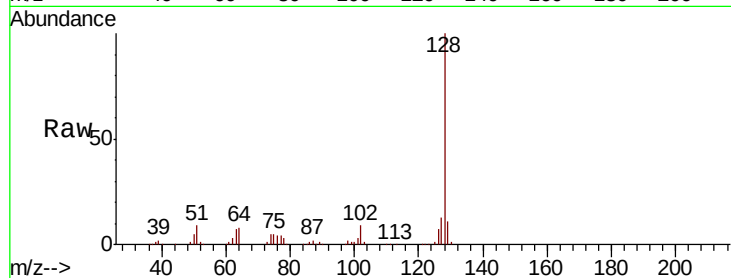
Tgt Ion:128 Resp: 263038

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

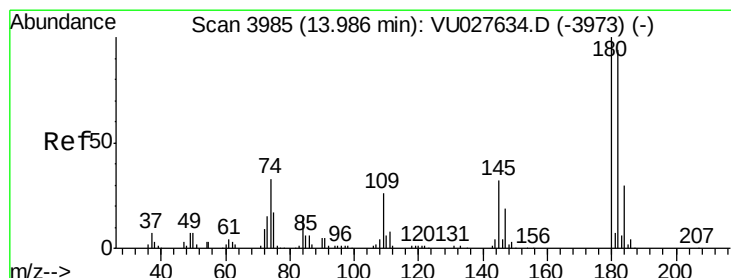
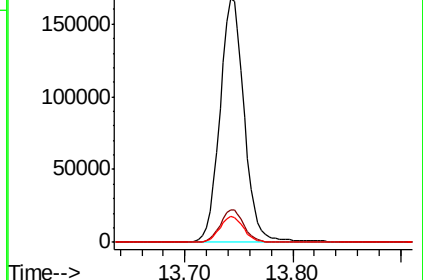
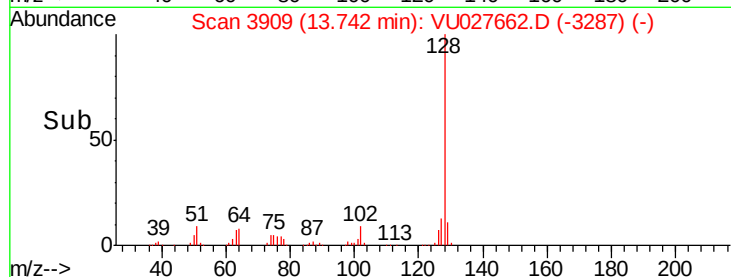
129 10.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 44.777 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU027662.D

Acq: 15 Oct 2018 13:19

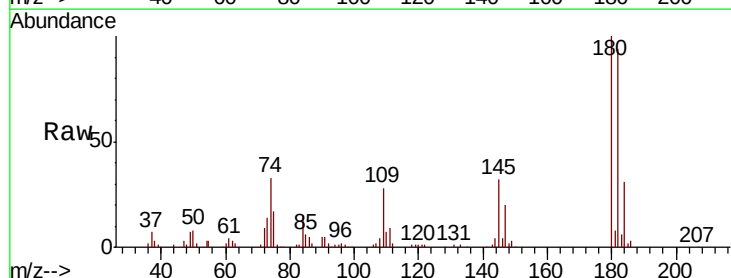
Tgt Ion:180 Resp: 83571

Ion Ratio Lower Upper

180 100

182 94.5 77.4 116.0

145 30.8 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

