

Data File : VU033394.D
Acq On : 25 Jul 2019 08:55
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

Quant Time: Jul 26 04:31:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 22:54:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	272082	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	282641	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	142170	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	105769	51.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.70%
7) Chloroethane-d5	1.67	69	99594	56.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	113.20%
11) 1,1-Dichloroethene-d2	2.26	63	221336	59.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	118.50%
21) 2-Butanone-d5	4.15	46	138753	106.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.32%
24) Chloroform-d	4.62	84	191499	55.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.96%
26) 1,2-Dichloroethane-d4	5.29	65	124738	56.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	112.70%
32) Benzene-d6	5.32	84	384974	55.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.04%
36) 1,2-Dichloropropane-d6	6.31	67	120088	54.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	108.14%
41) Toluene-d8	7.55	98	361040	55.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.44%
43) trans-1,3-Dichloropropene-	7.83	79	57933	53.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.38%
47) 2-Hexanone-d5	8.30	63	103371	103.24	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.24%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	185934	55.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.62%
64) 1,2-Dichlorobenzene-d4	11.85	152	135798	53.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	135190	50.139 ug/L	100
3) Chloromethane	1.32	50	124490	46.865 ug/L	99
5) Vinyl chloride	1.40	62	144401	47.032 ug/L	100
6) Bromomethane	1.61	94	88207	46.084 ug/L	99
8) Chloroethane	1.69	64	91472	49.256 ug/L	95
9) Trichlorofluoromethane	1.87	101	207031	51.279 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	104561	56.331 ug/L	99
12) 1,1-Dichloroethene	2.27	96	97846	53.878 ug/L	95
13) Acetone	2.31	43	167430	102.683 ug/L	98
14) Carbon disulfide	2.46	76	259616	46.742 ug/L	99
15) Methyl Acetate	2.60	43	100197	47.056 ug/L	99
16) Methylene chloride	2.68	84	103176	49.760 ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	92497	49.281 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	280580	48.430 ug/L	99
19) 1,1-Dichloroethane	3.42	63	178420	49.453 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	105190	49.686 ug/L	95
22) 2-Butanone	4.23	43	171803	94.847 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	54257	50.048	ug/L	97
25) Chloroform	4.65	83	196807	51.290	ug/L	99
27) 1,2-Dichloroethane	5.38	62	152461	51.311	ug/L	99
29) Cyclohexane	4.97	56	148631	48.260	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	164211	49.799	ug/L	98
31) Carbon tetrachloride	5.11	117	145077	50.275	ug/L	98
33) Benzene	5.37	78	409780	49.715	ug/L	100
34) Trichloroethene	6.16	95	104839	48.634	ug/L	99
35) Methylcyclohexane	6.40	83	162204	49.121	ug/L	98
37) 1,2-Dichloropropane	6.41	63	109909	49.168	ug/L	99
38) Bromodichloromethane	6.74	83	144459	50.099	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	168815	49.255	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	276847	92.322	ug/L	99
42) Toluene	7.62	91	453512	51.034	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	154537	49.997	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	105511	49.908	ug/L	97
46) Tetrachloroethene	8.21	164	83141	49.822	ug/L	99
48) 2-Hexanone	8.35	43	235935	96.577	ug/L	98
49) Dibromochloromethane	8.46	129	119718	50.764	ug/L	98
50) 1,2-Dibromoethane	8.57	107	112707	48.895	ug/L	97
51) Chlorobenzene	9.10	112	288239	49.694	ug/L	98
52) Ethylbenzene	9.23	91	483064	50.801	ug/L	100
53) m,p-Xylene	9.36	106	189342	52.570	ug/L	100
54) o-xylene	9.77	106	182566	51.048	ug/L	96
55) Styrene	9.78	104	317620	52.384	ug/L	99
56) Isopropylbenzene	10.15	105	471899	51.278	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	185951	50.074	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	138764	47.684	ug/L	99
61) Bromoform	9.94	173	86455	49.792	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	215470	49.235	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	224998	49.171	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	223941	49.895	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	40062	46.767	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	166650	52.691	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	140104	50.715	ug/L	99
69) Naphthalene	13.73	128	436422	49.270	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	148942	49.660	ug/L	99

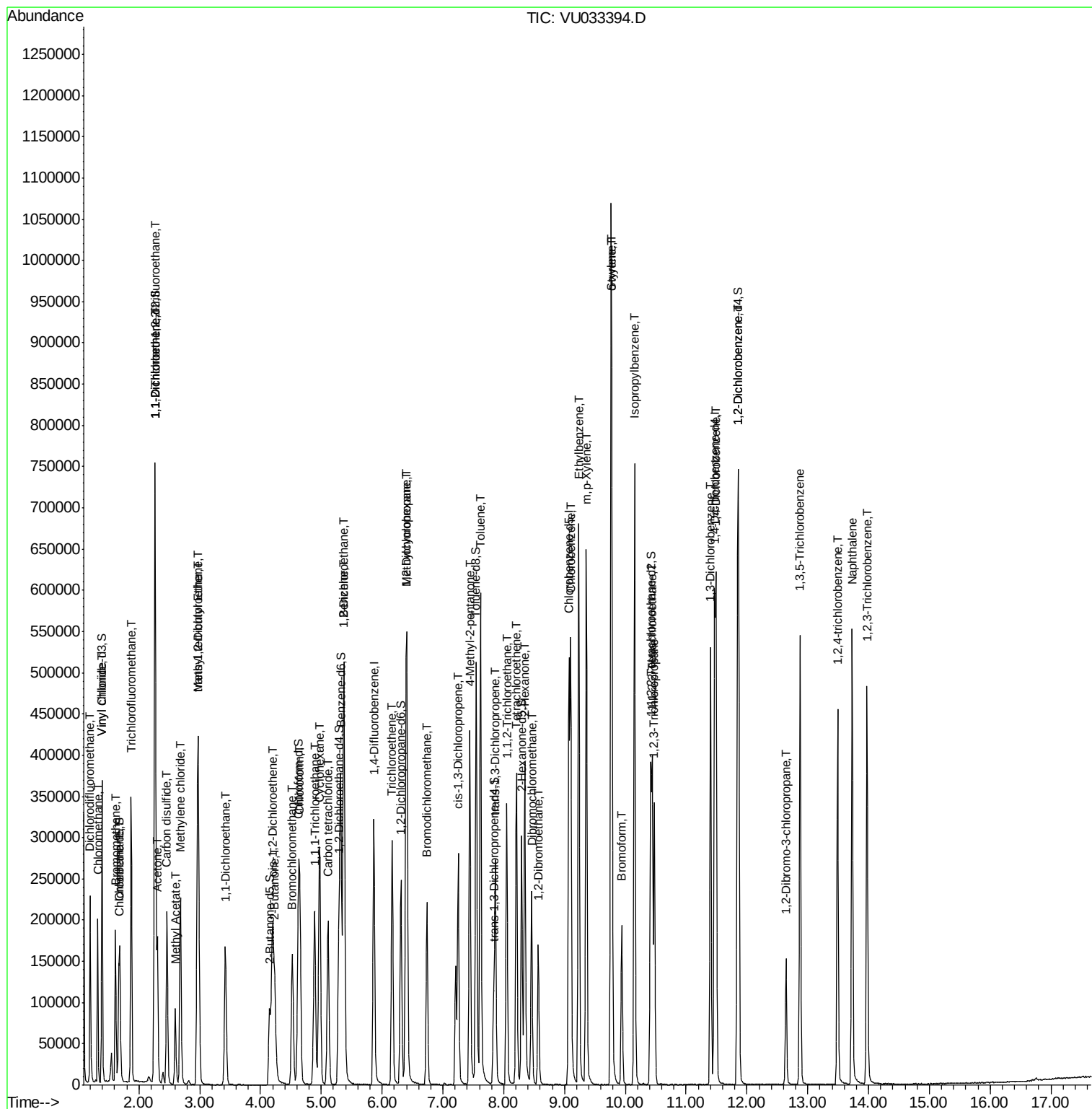
(#) = qualifier out of range (m) = manual integration (+) = signals summed

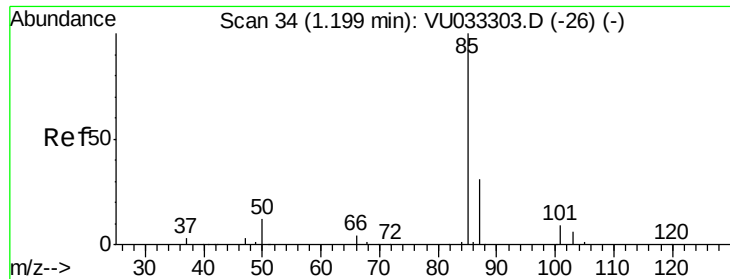
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#2

Dichlorodifluoromethane

Concen: 50.139 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

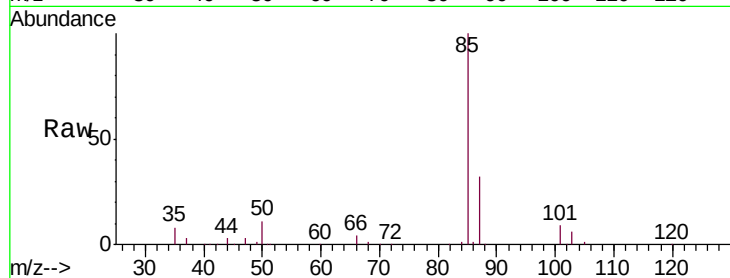
VSTD05055

Tgt Ion: 85 Resp: 135190

Ion Ratio Lower Upper

85 100

87 31.9 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033303.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033303.D (-26) (-)

1.20

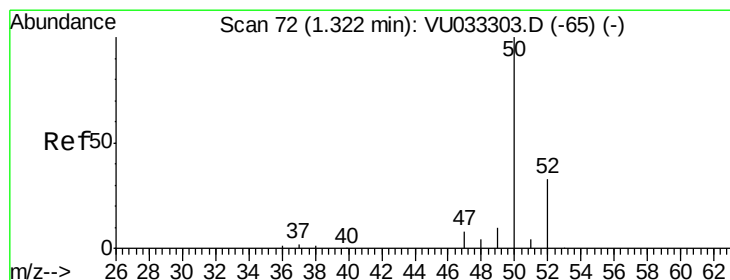
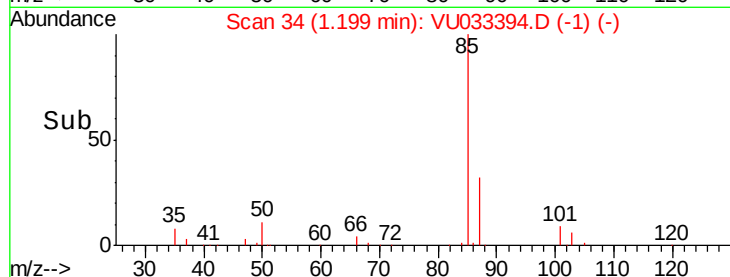
100000

50000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 46.865 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033394.D

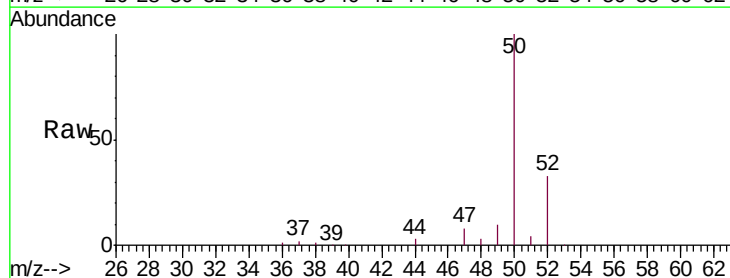
Acq: 25 Jul 2019 08:55

Tgt Ion: 50 Resp: 124490

Ion Ratio Lower Upper

50 100

52 32.8 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033303.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU033303.D (-65) (-)

1.32

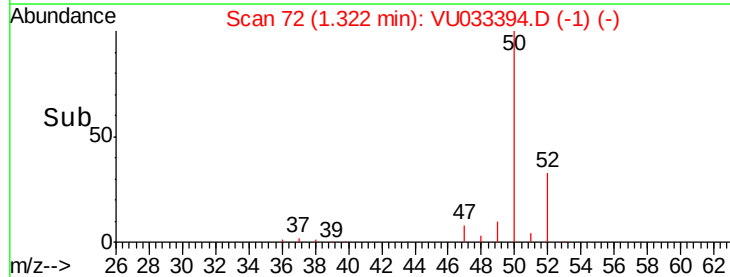
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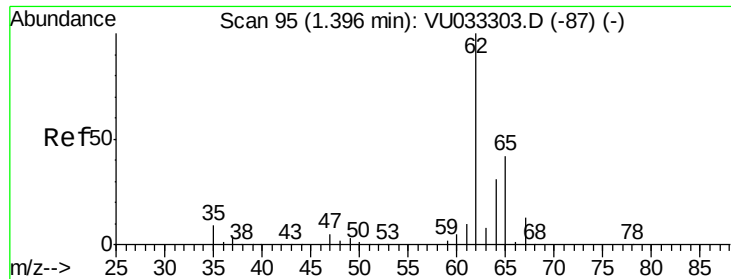
50000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 47.032 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

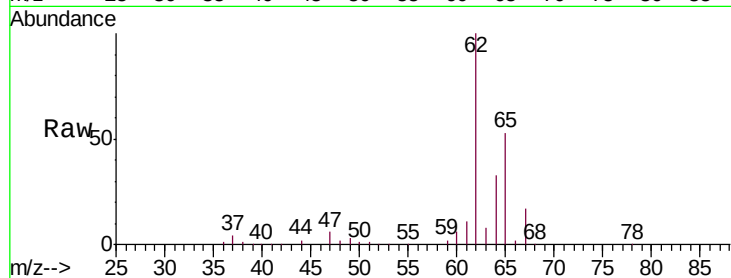
VSTD05055

Tgt Ion: 62 Resp: 144401

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

150000

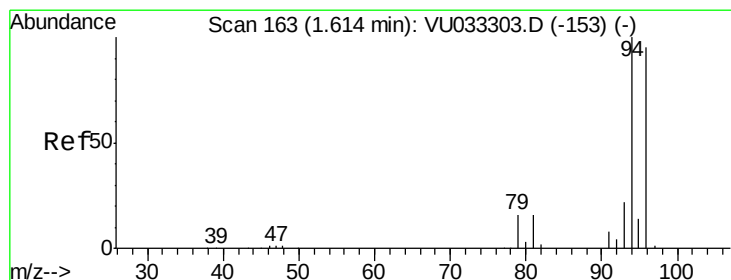
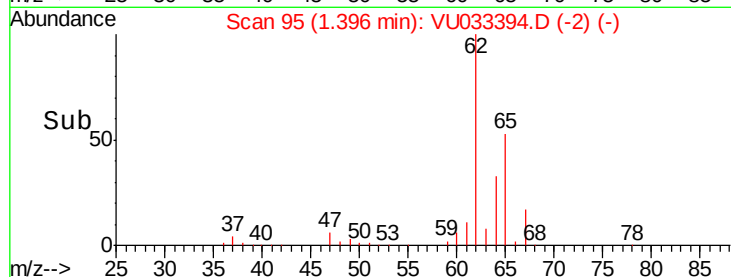
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 46.084 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033394.D

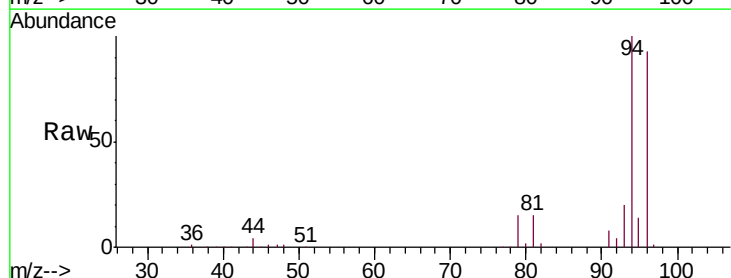
Acq: 25 Jul 2019 08:55

Tgt Ion: 94 Resp: 88207

Ion Ratio Lower Upper

94 100

96 93.1 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

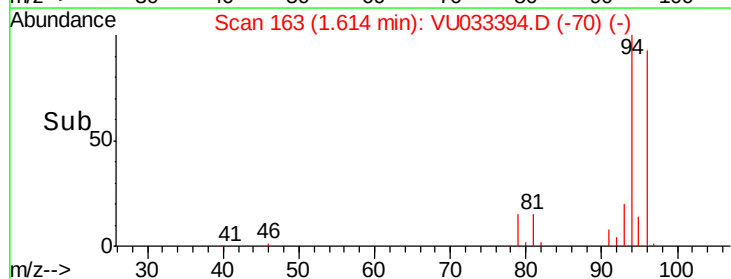
40000

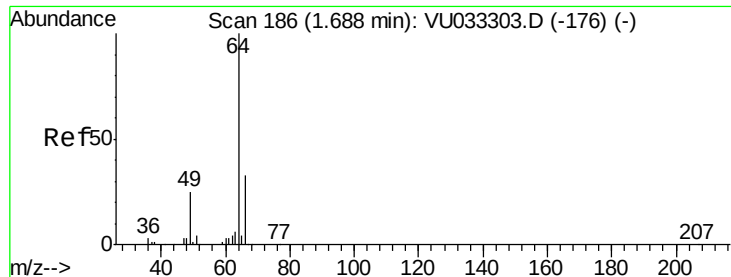
20000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 49.256 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

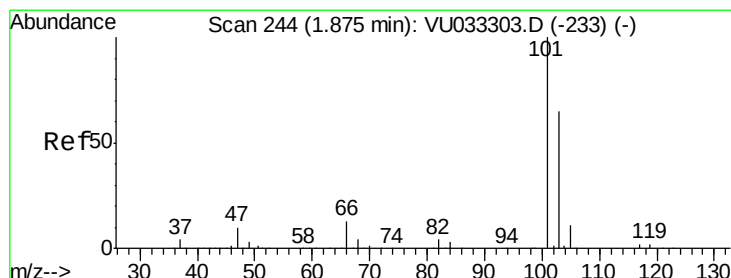
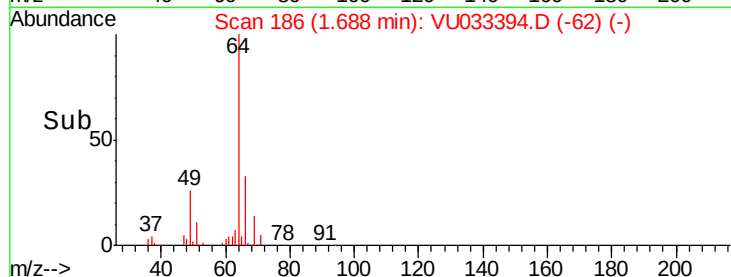
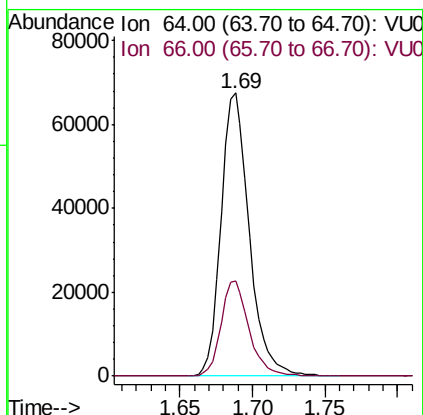
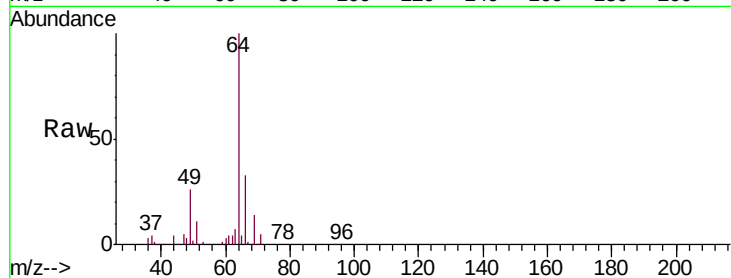
VSTD05055

Tgt Ion: 64 Resp: 91472

Ion Ratio Lower Upper

64 100

66 33.5 21.6 40.0



#9

Trichlorofluoromethane

Concen: 51.279 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033394.D

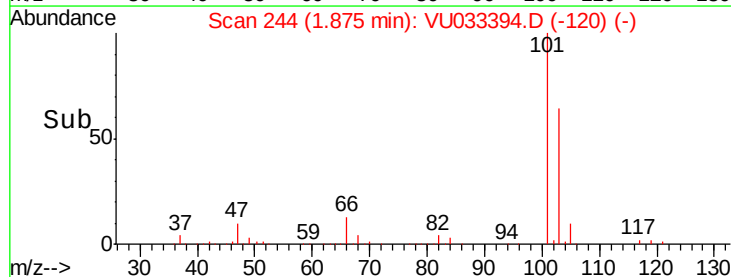
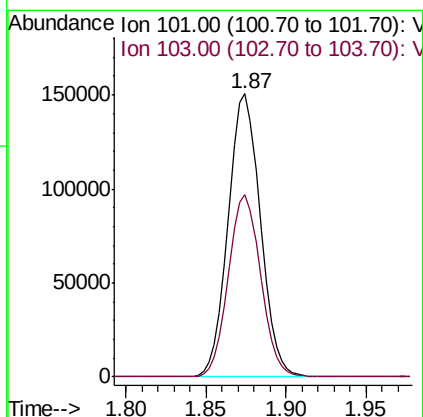
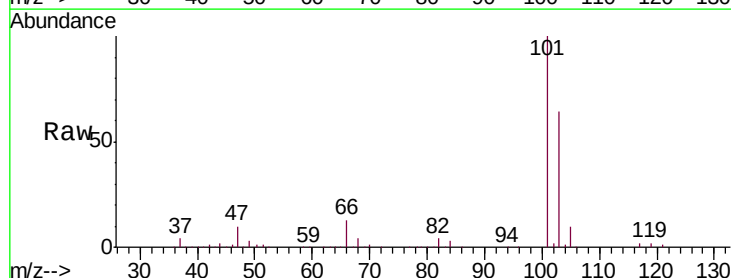
Acq: 25 Jul 2019 08:55

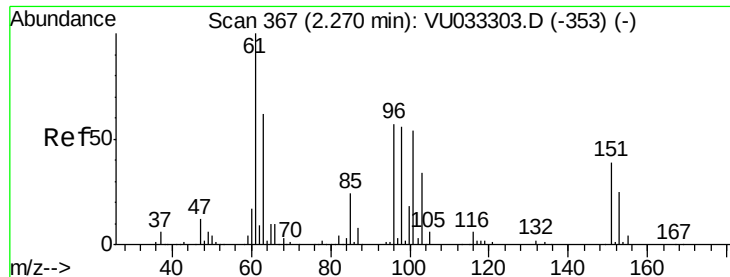
Tgt Ion: 101 Resp: 207031

Ion Ratio Lower Upper

101 100

103 64.4 52.2 78.4





#10

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

Concen: 56.331 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

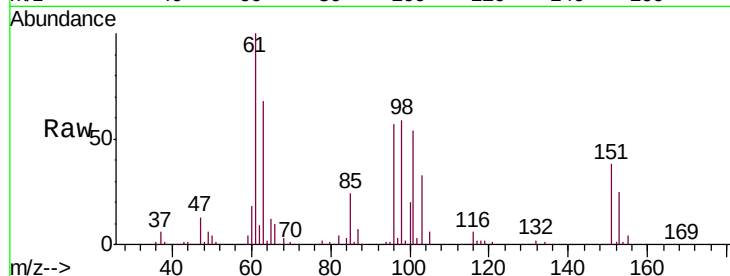
Tgt Ion: 101 Resp: 104561

Ion Ratio Lower Upper

101 100

85 44.2 35.8 53.8

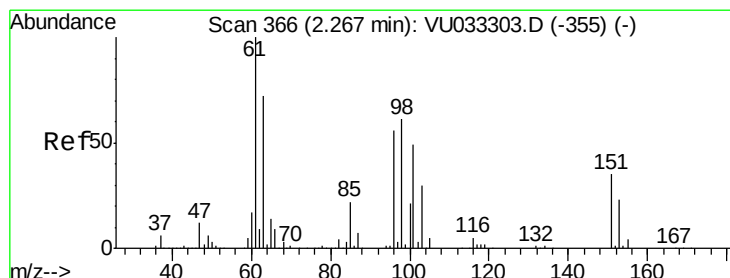
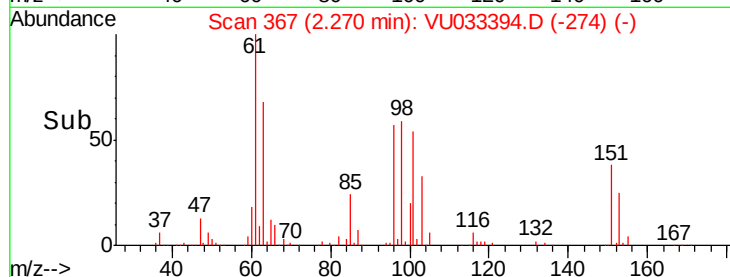
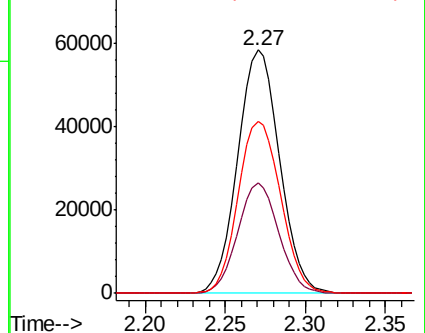
151 71.6 56.7 85.1



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: 53.878 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

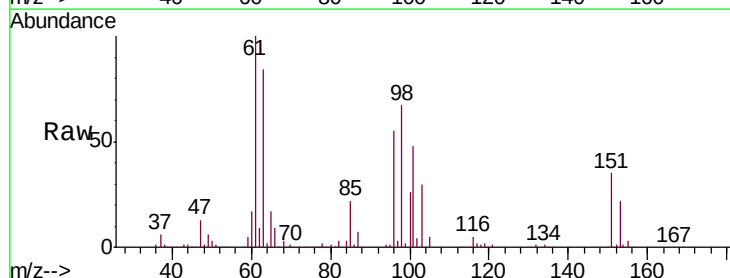
Tgt Ion: 96 Resp: 97846

Ion Ratio Lower Upper

96 100

61 181.0 126.1 234.1

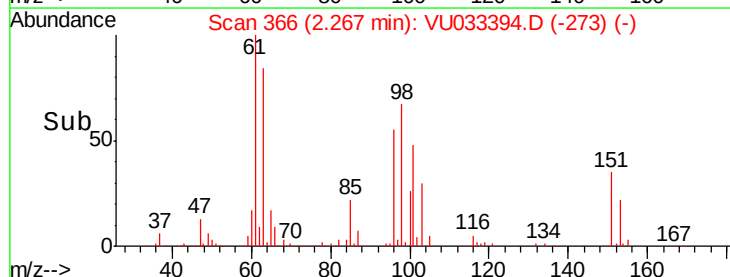
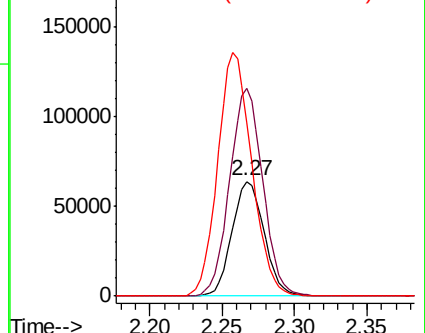
63 151.4 96.8 179.8

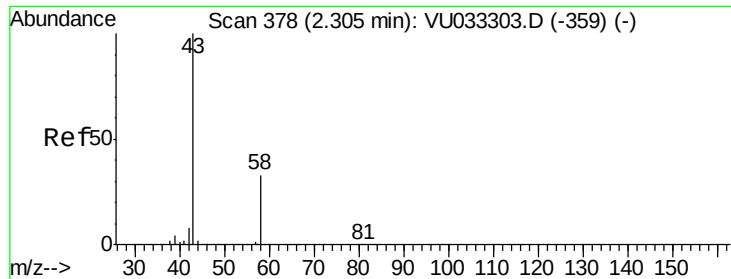


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 102.683 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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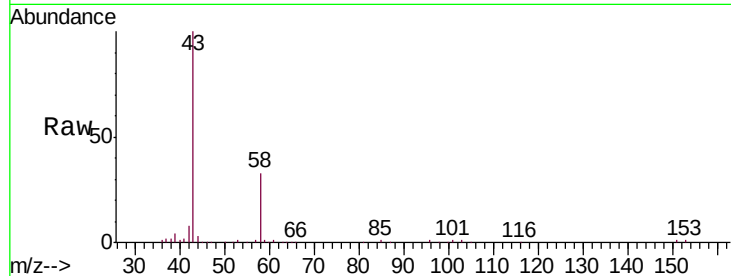
VSTD05055

Tgt Ion: 43 Resp: 167430

Ion Ratio Lower Upper

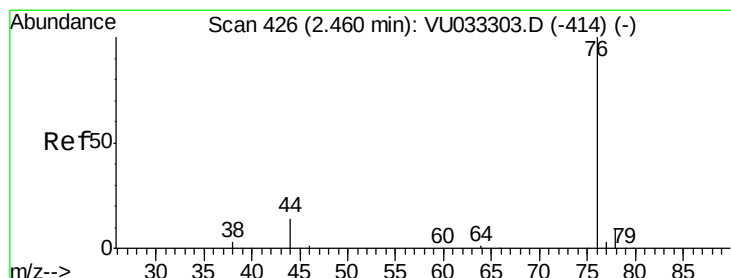
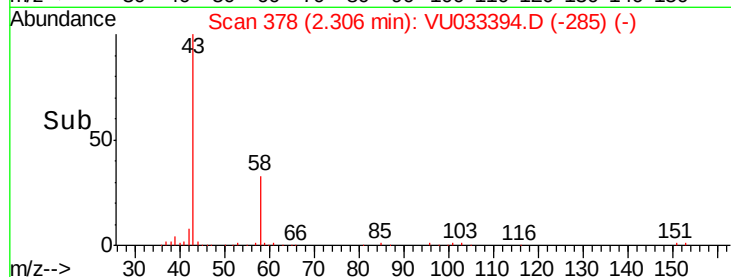
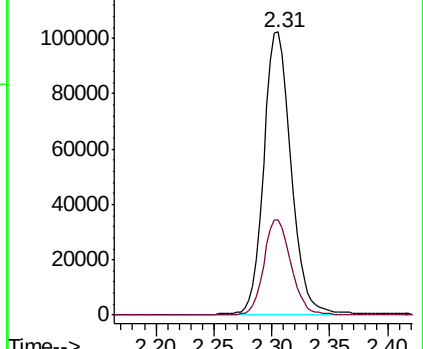
43 100

58 33.9 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033394.D (-359) (-)

Ion 58.00 (57.70 to 58.70): VU033394.D (-359) (-)



#14

Carbon disulfide

Concen: 46.742 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033394.D

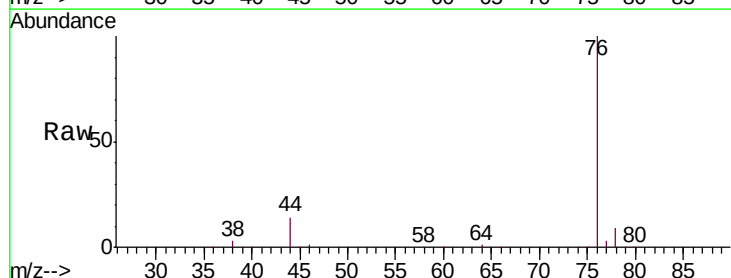
Acq: 25 Jul 2019 08:55

Tgt Ion: 76 Resp: 259616

Ion Ratio Lower Upper

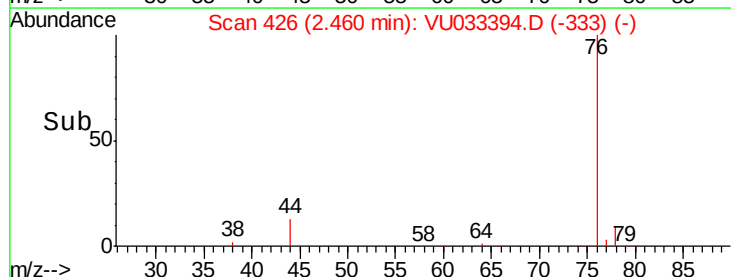
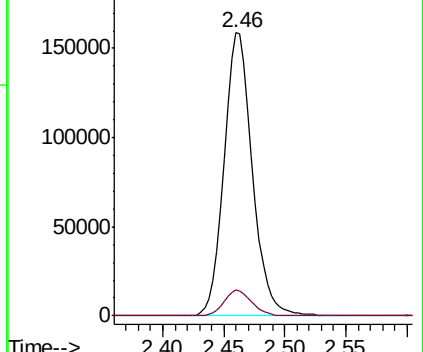
76 100

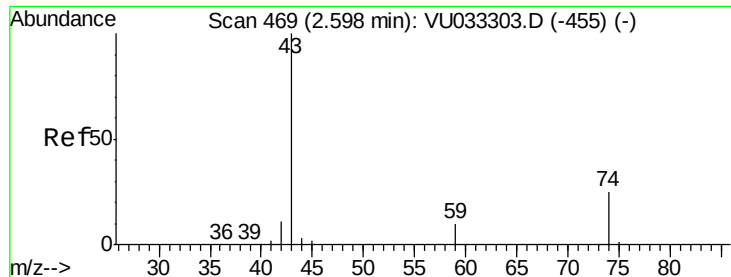
78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033394.D (-333) (-)

Ion 78.00 (77.70 to 78.70): VU033394.D (-333) (-)

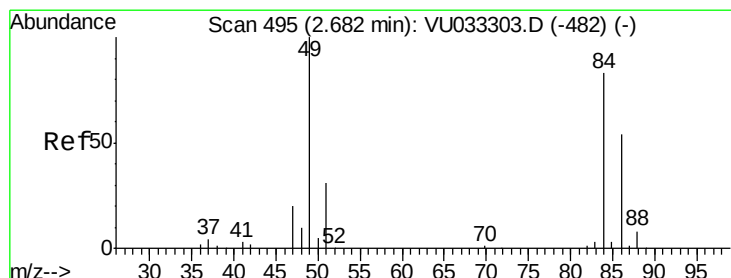
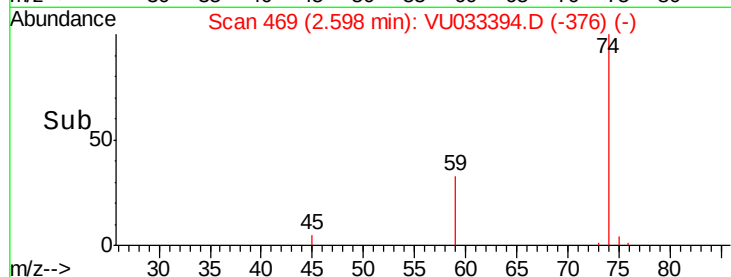
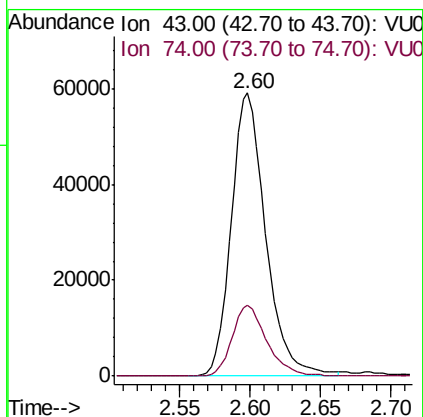
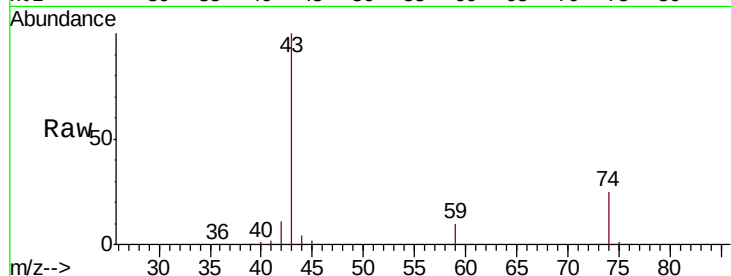




#15
Methyl Acetate
Concen: 47.056 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

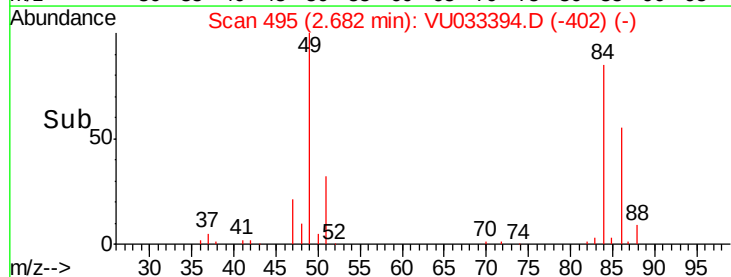
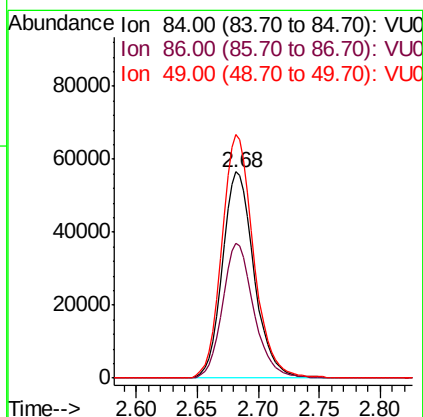
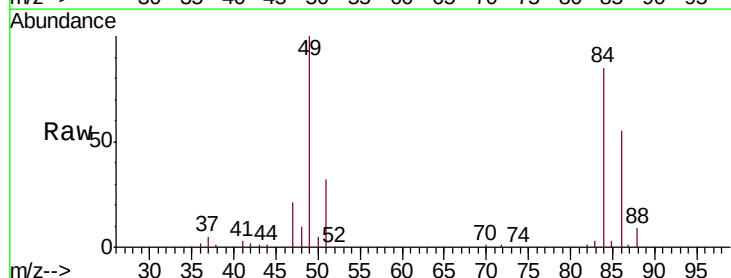
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

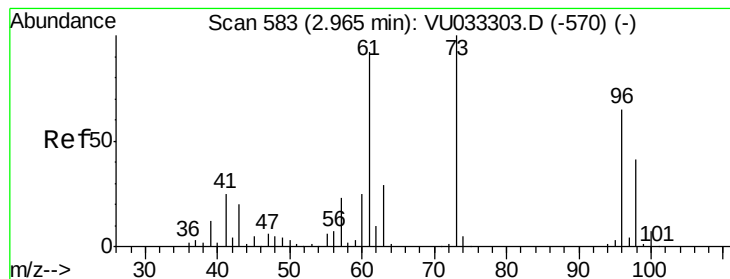
Tgt Ion: 43 Resp: 100197
Ion Ratio Lower Upper
43 100
74 25.5 19.9 29.9



#16
Methylene chloride
Concen: 49.760 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

Tgt Ion: 84 Resp: 103176
Ion Ratio Lower Upper
84 100
86 65.4 45.7 84.9
49 118.1 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 49.281 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

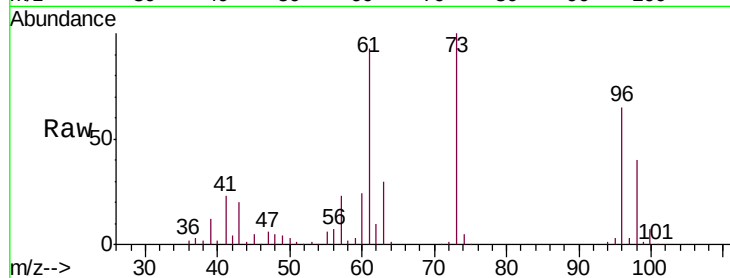
Tgt Ion: 96 Resp: 92497

Ion Ratio Lower Upper

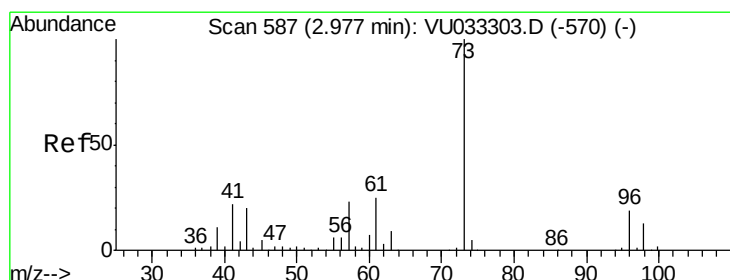
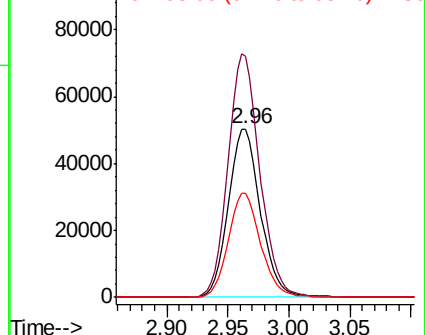
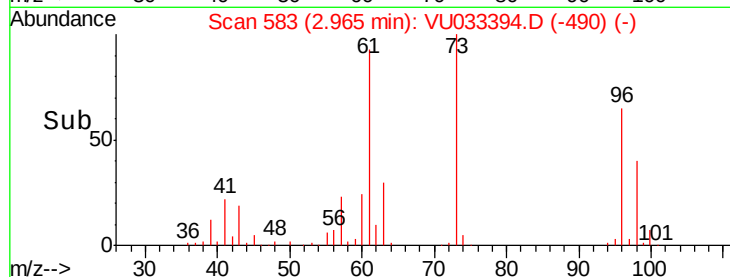
96 100

61 142.6 100.2 186.2

98 61.6 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033394.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 48.430 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

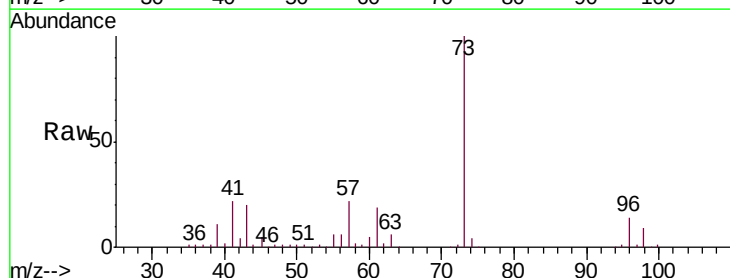
Tgt Ion: 73 Resp: 280580

Ion Ratio Lower Upper

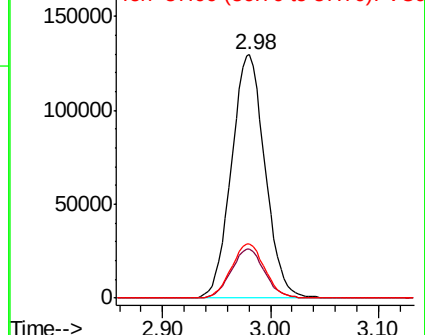
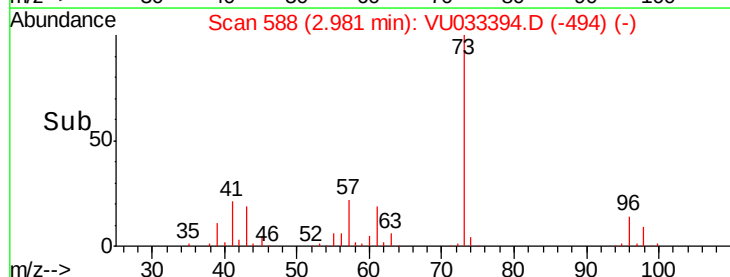
73 100

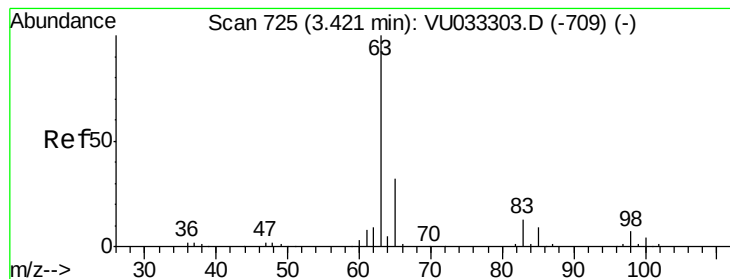
43 20.1 15.7 23.5

57 22.3 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VU033394.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 49.453 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

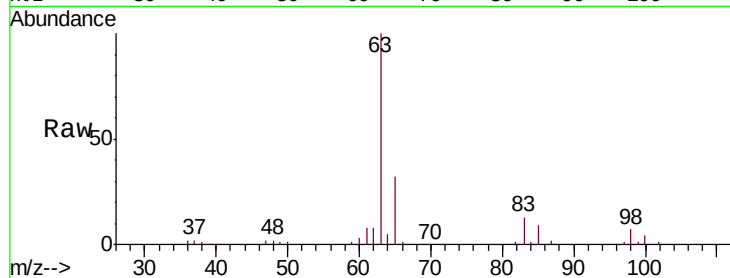
Tgt Ion: 63 Resp: 178420

Ion Ratio Lower Upper

63 100

65 32.1 22.3 41.5

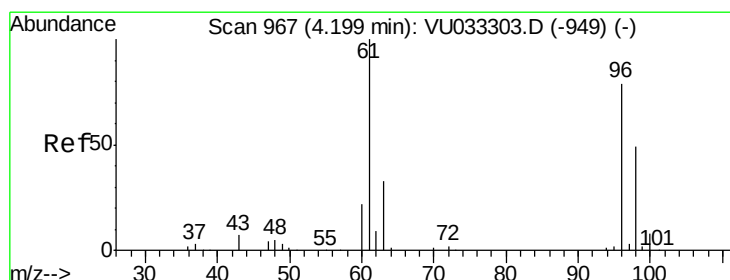
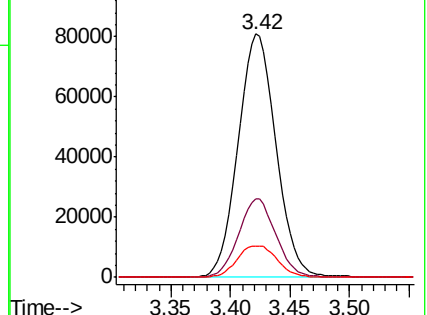
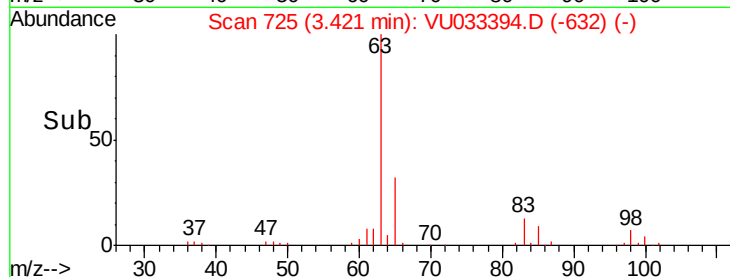
83 13.0 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VU033394.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033394.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033394.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.686 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

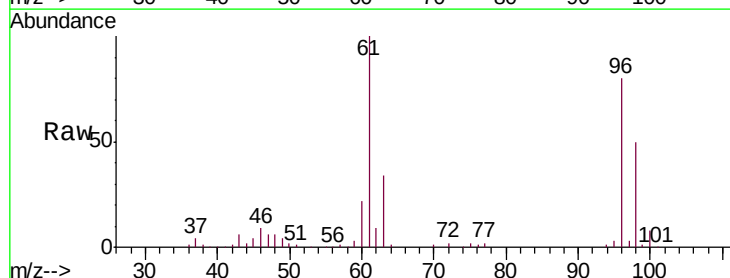
Tgt Ion: 96 Resp: 105190

Ion Ratio Lower Upper

96 100

61 124.7 91.1 169.1

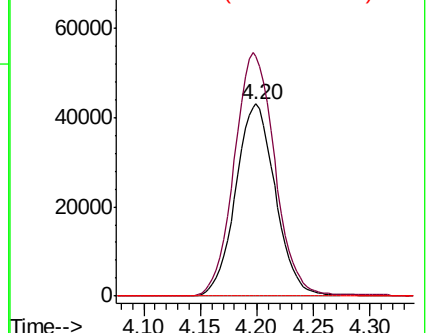
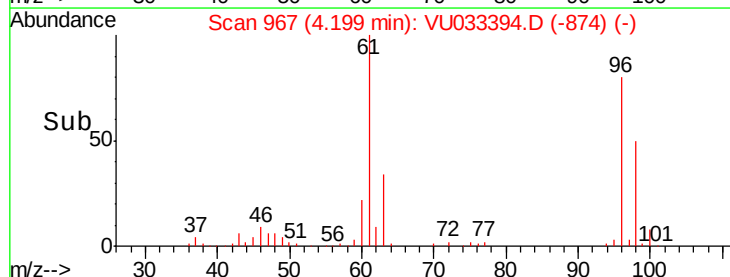
68 0.0 0.0 0.0

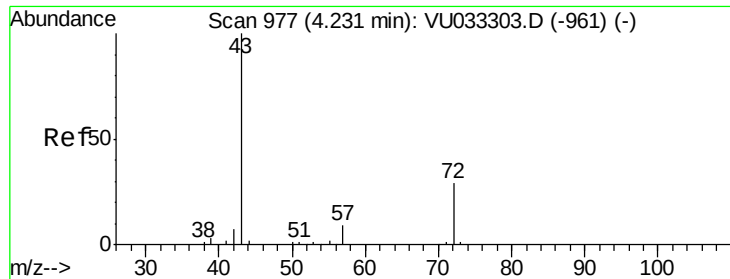


Abundance Ion 96.00 (95.70 to 96.70): VU033394.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033394.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033394.D (-874) (-)





#22

2-Butanone

Concen: 94.847 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

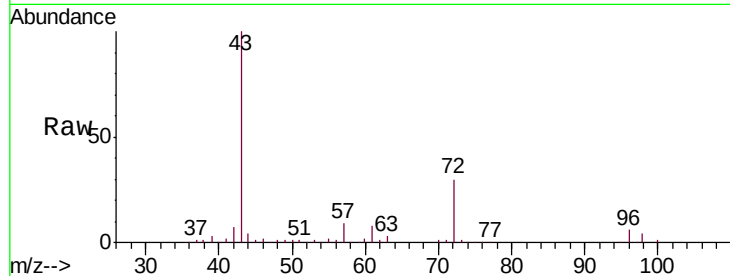
VSTD05055

Tgt Ion: 43 Resp: 171803

Ion Ratio Lower Upper

43 100

72 30.3 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033394.D (-978) (-)

Ion 72.00 (71.70 to 72.70): VU033394.D (-978) (-)

4.23

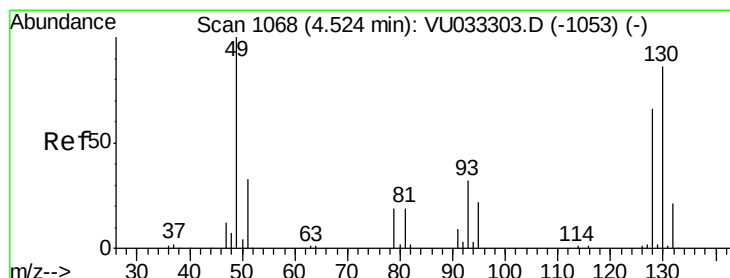
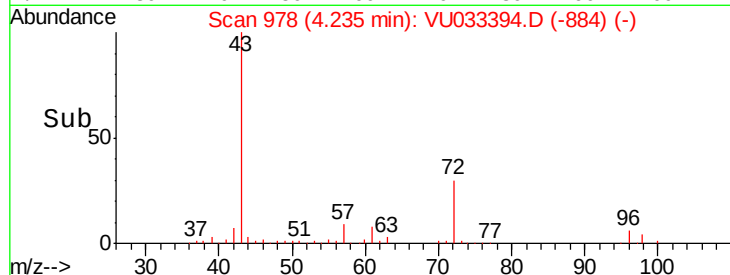
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 50.048 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Tgt Ion: 128 Resp: 54257

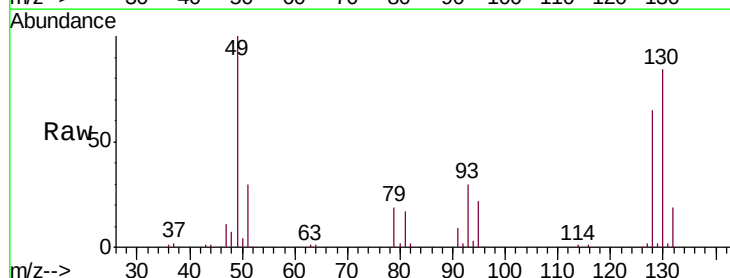
Ion Ratio Lower Upper

128 100

49 154.3 107.2 199.2

130 130.0 87.0 161.6

51 47.1 39.6 59.4



Abundance Ion 128.00 (127.70 to 128.70): VU033394.D (-1067) (-)

Ion 49.00 (48.70 to 49.70): VU033394.D (-1067) (-)

Ion 130.00 (129.70 to 130.70): VU033394.D (-1067) (-)

Ion 51.00 (50.70 to 51.70): VU033394.D (-1067) (-)

4.52

50000

40000

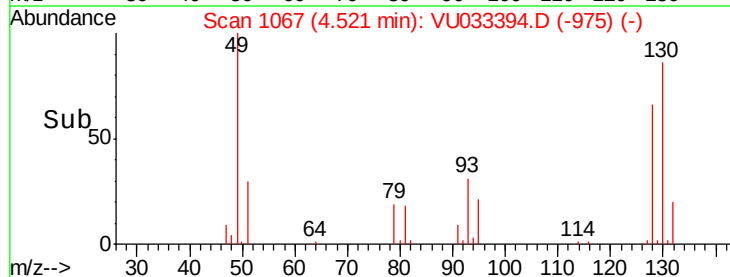
30000

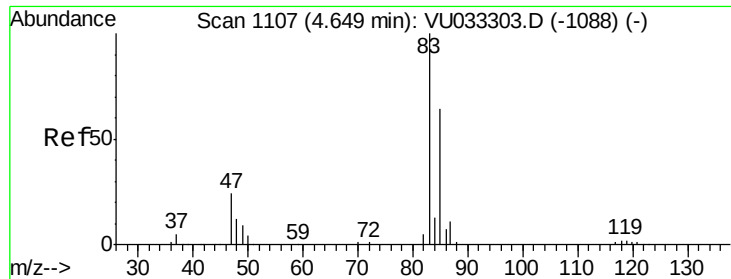
20000

10000

0

Time-->

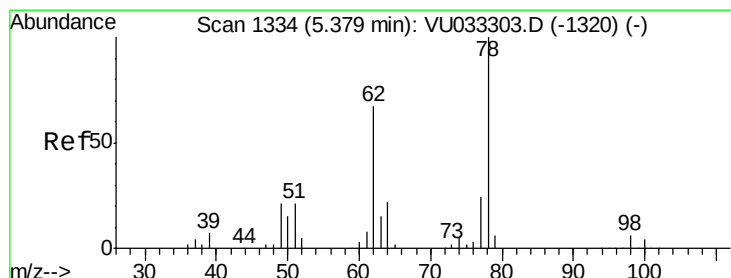
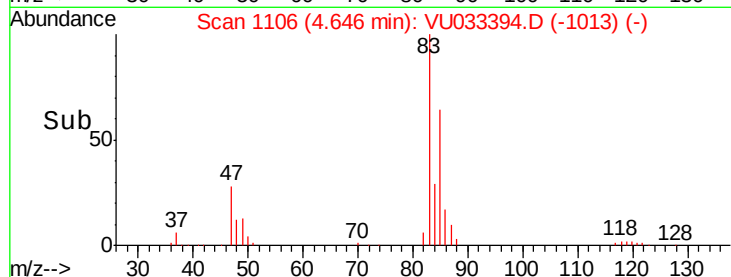
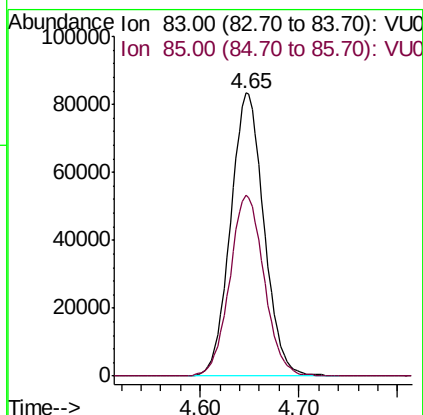
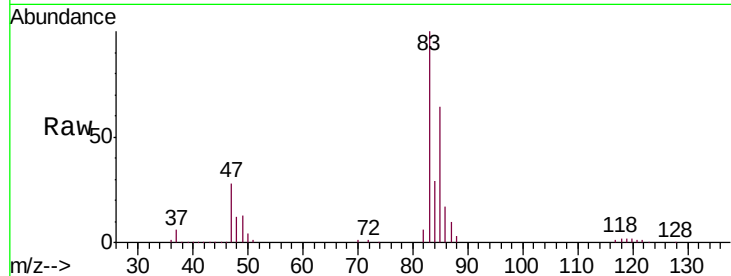




#25
Chloroform
Concen: 51.290 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

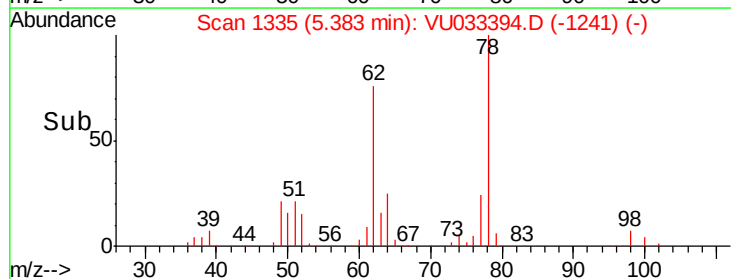
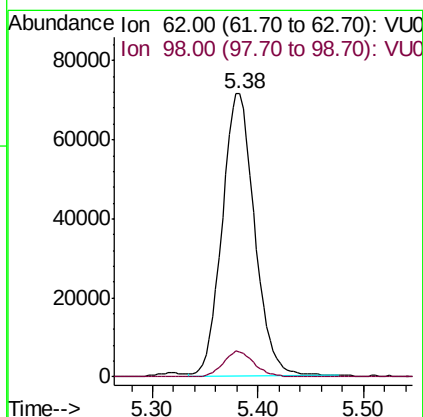
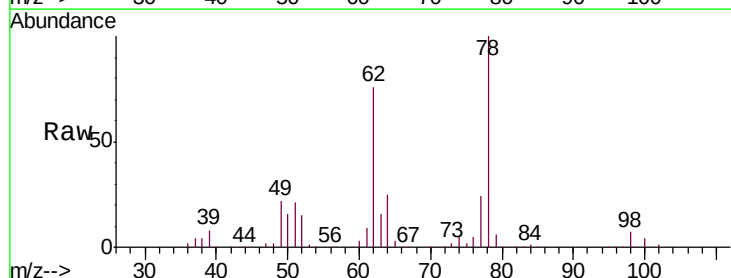
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

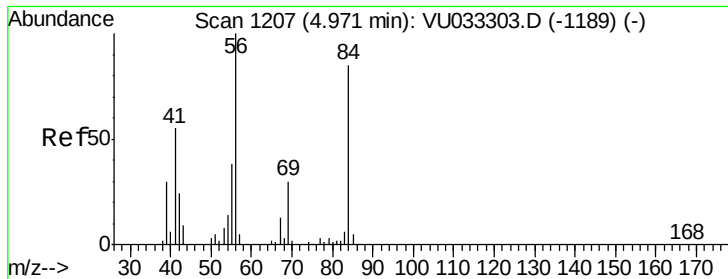
Tgt Ion: 83 Resp: 196807
Ion Ratio Lower Upper
83 100
85 63.7 45.4 84.4



#27
1,2-Dichloroethane
Concen: 51.311 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

Tgt Ion: 62 Resp: 152461
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.6

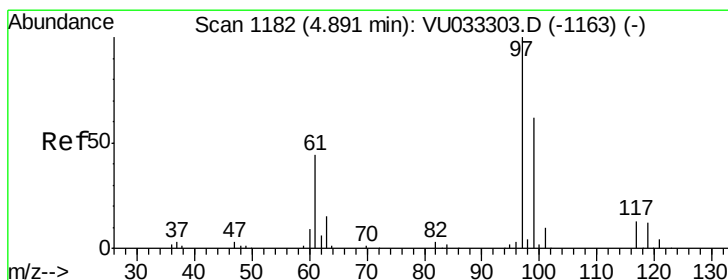
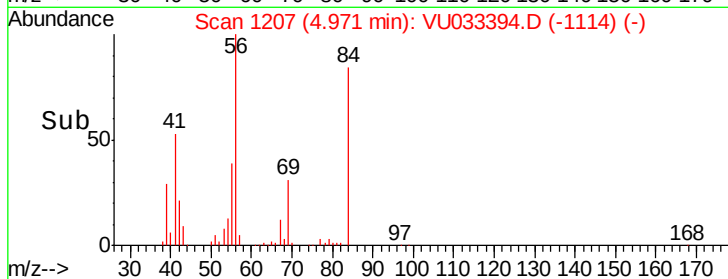
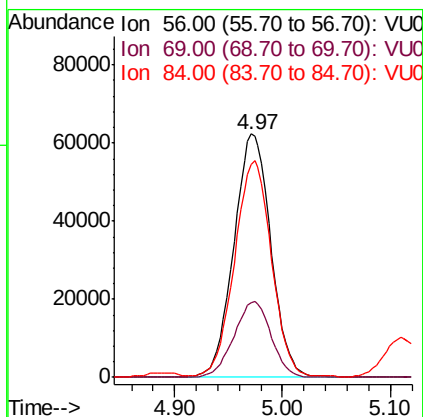
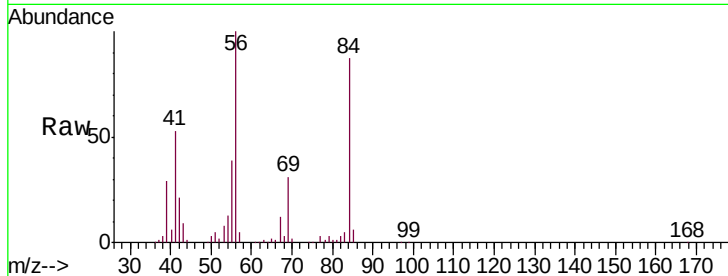




#29
Cyclohexane
Concen: 48.260 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

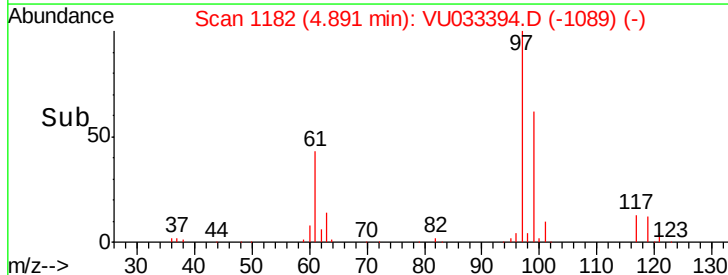
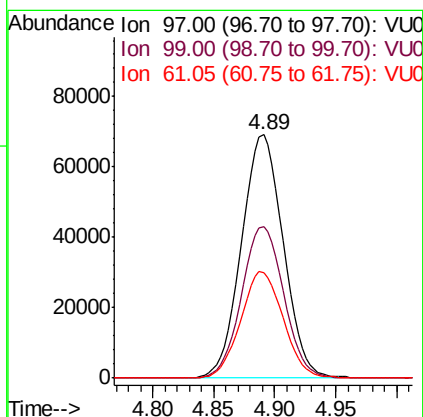
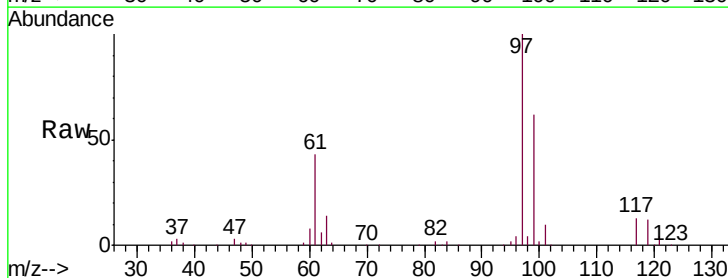
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

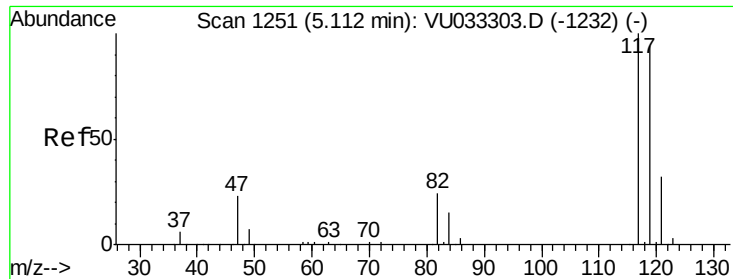
Tgt Ion: 56 Resp: 148631
Ion Ratio Lower Upper
56 100
69 31.3 24.7 37.1
84 87.3 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 49.799 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

Tgt Ion: 97 Resp: 164211
Ion Ratio Lower Upper
97 100
99 62.9 51.5 77.3
61 44.7 36.4 54.6





#31

Carbon tetrachloride

Concen: 50.275 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

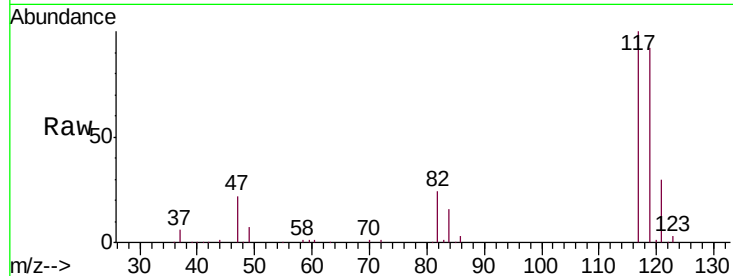
VSTD05055

Tgt Ion:117 Resp: 145077

Ion Ratio Lower Upper

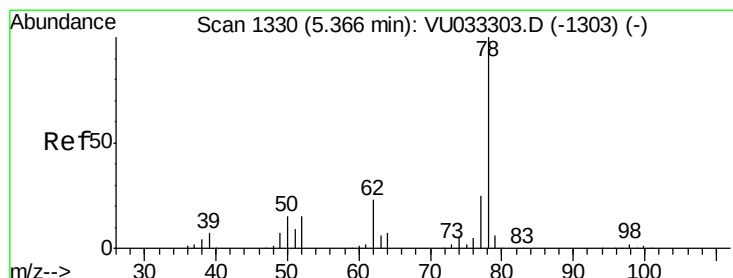
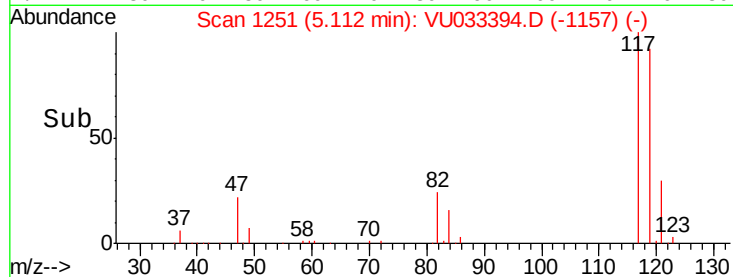
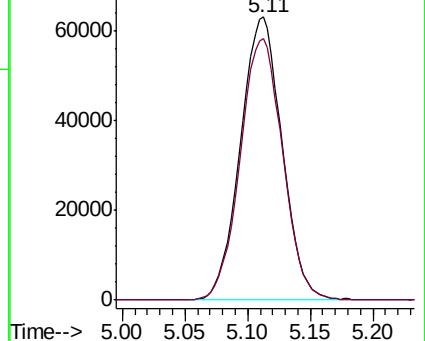
117 100

119 94.3 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.715 ug/L

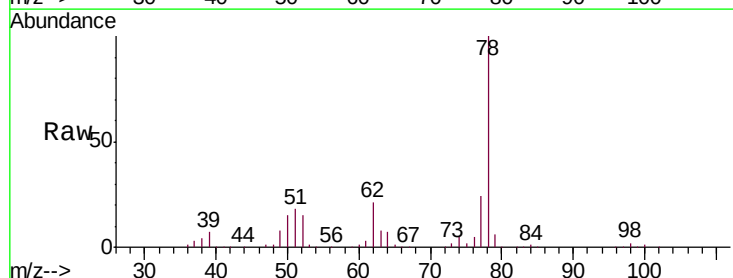
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

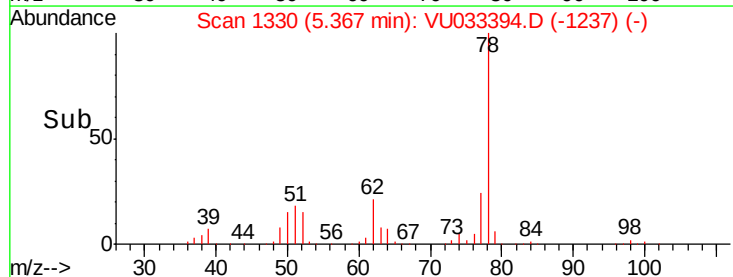
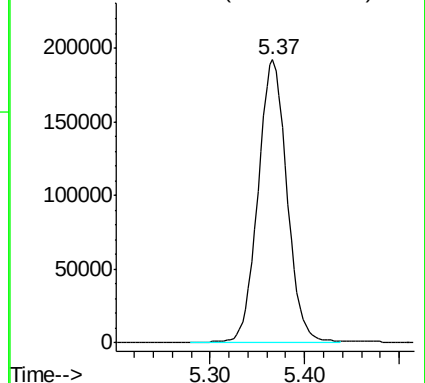
Lab File: VU033394.D

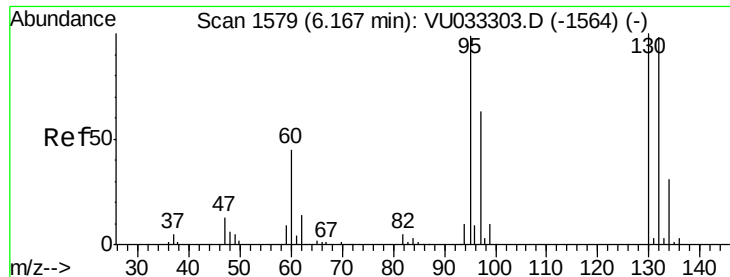
Acq: 25 Jul 2019 08:55

Tgt Ion: 78 Resp: 409780



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.634 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

Tgt Ion: 95 Resp: 104839

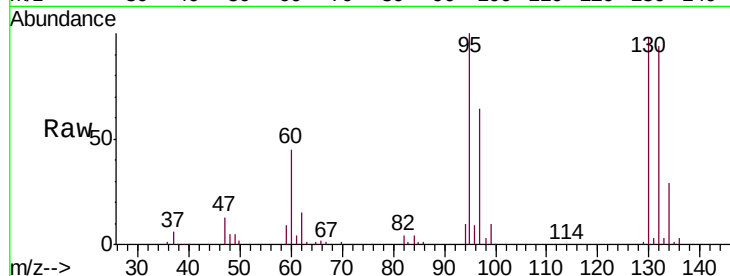
Ion Ratio Lower Upper

95 100

97 64.0 43.8 81.4

132 94.3 65.5 121.6

130 98.4 69.7 129.5



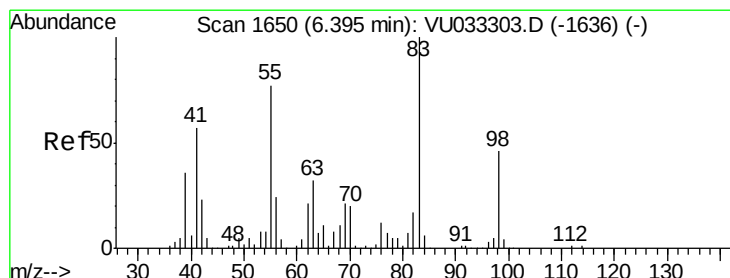
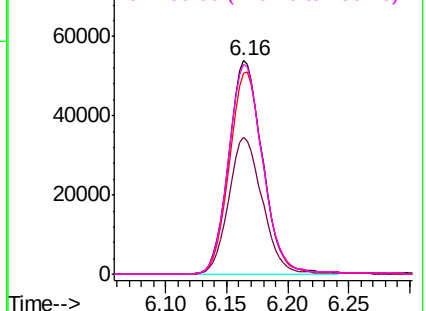
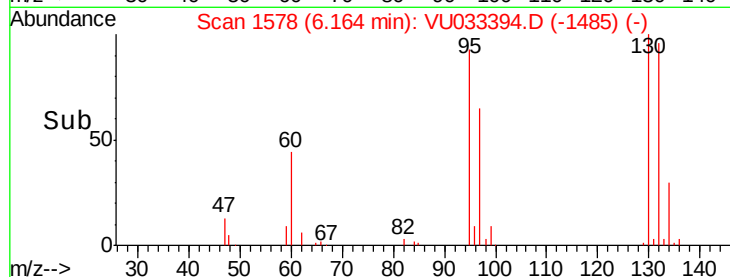
Abundance

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: 49.121 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

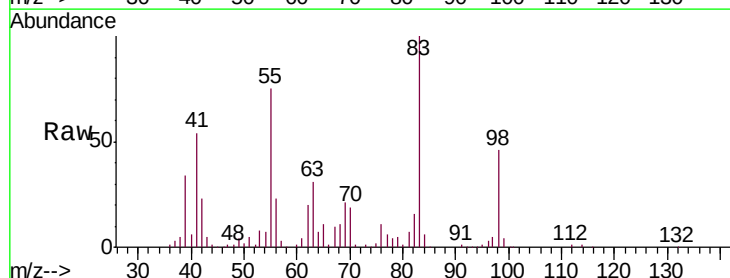
Tgt Ion: 83 Resp: 162204

Ion Ratio Lower Upper

83 100

55 77.8 60.5 90.7

98 46.2 37.4 56.0

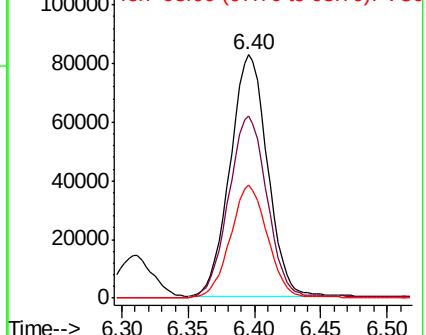
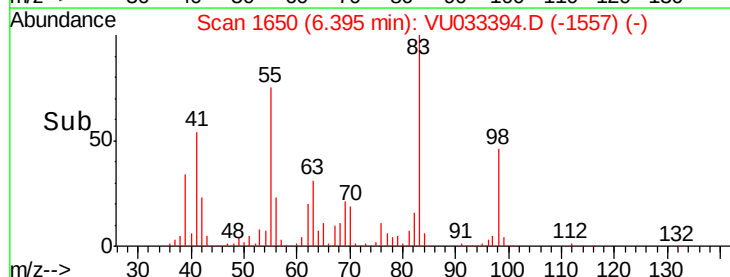


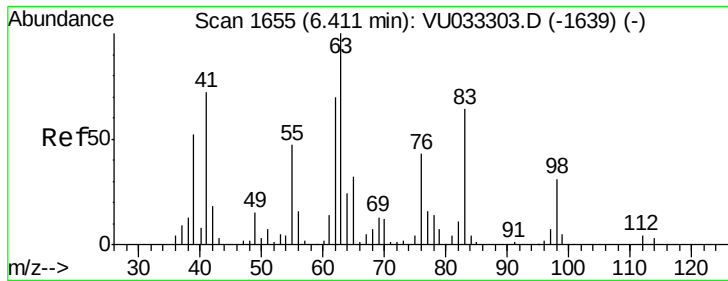
Abundance

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

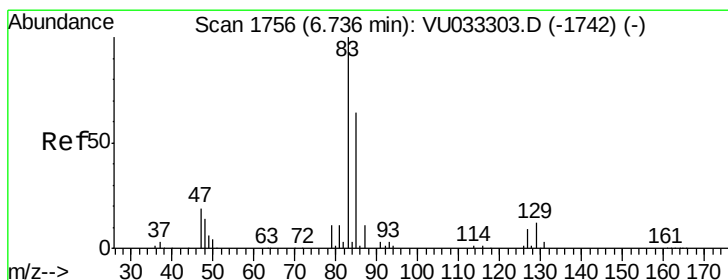
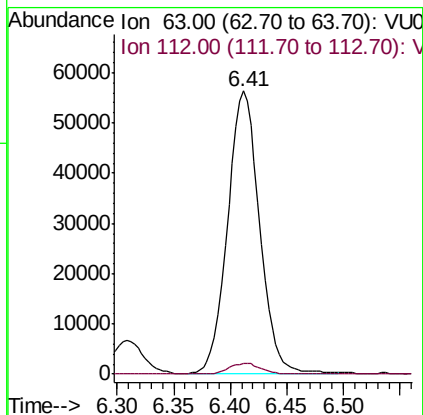
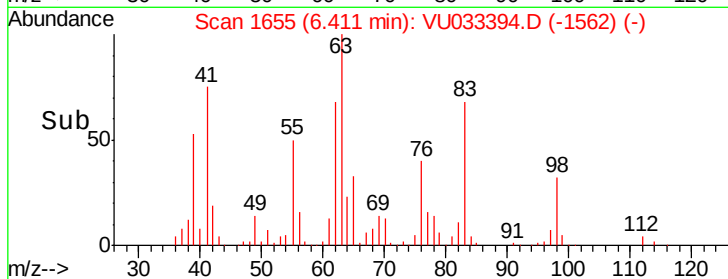
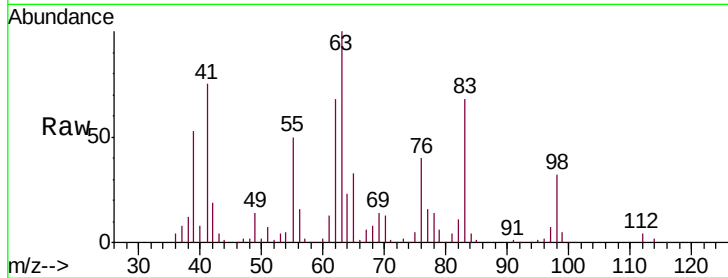




#37
 1,2-Dichloropropane
 Concen: 49.168 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

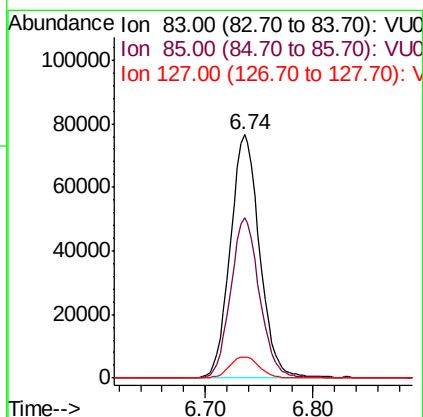
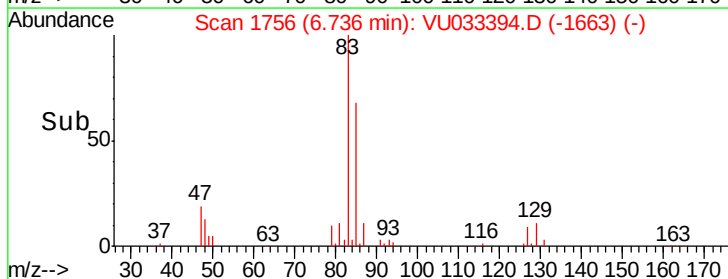
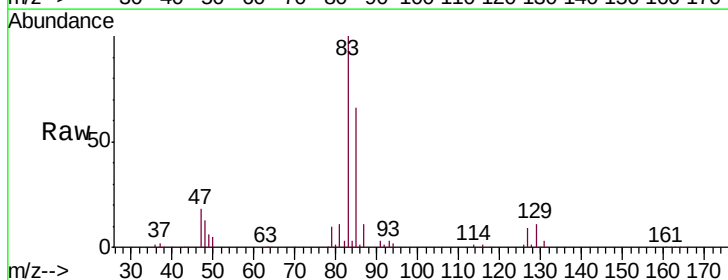
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

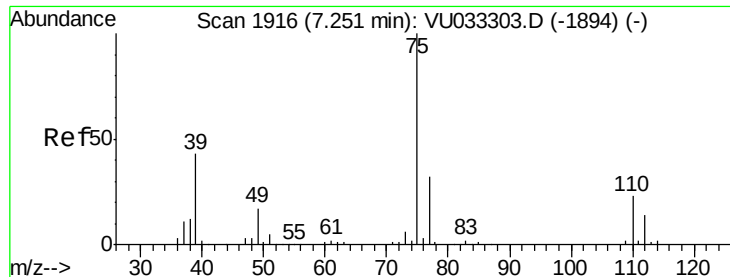
Tgt Ion: 63 Resp: 109909
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.2 4.8



#38
 Bromodichloromethane
 Concen: 50.099 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

Tgt Ion: 83 Resp: 144459
 Ion Ratio Lower Upper
 83 100
 85 65.9 45.8 85.0
 127 8.6 6.8 10.2

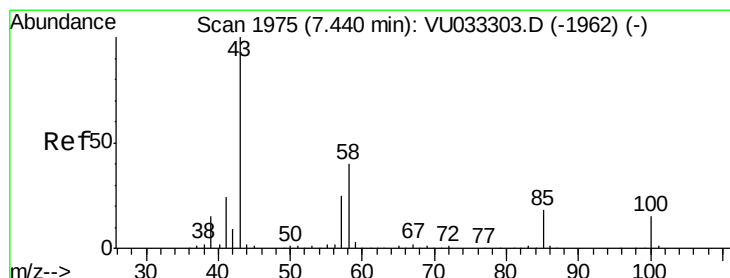
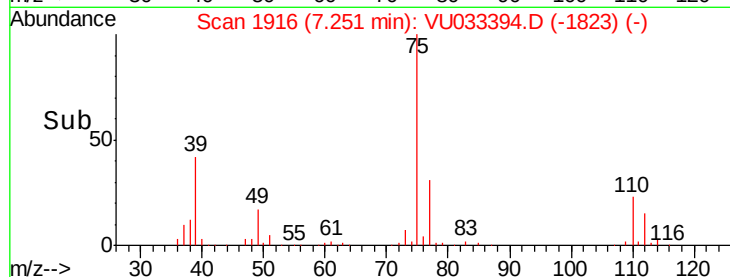
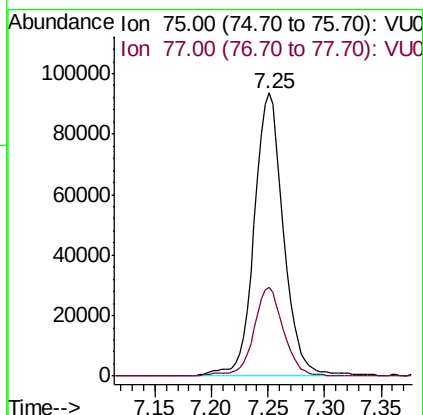
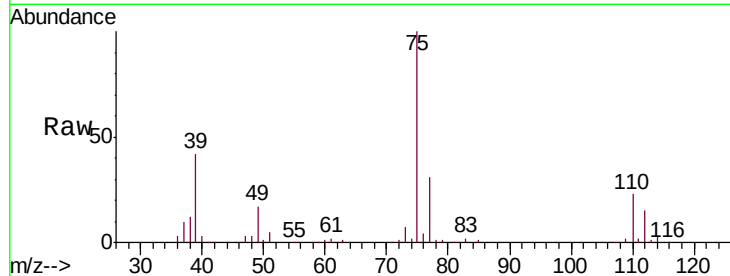




#39
 cis-1,3-Dichloropropene
 Concen: 49.255 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

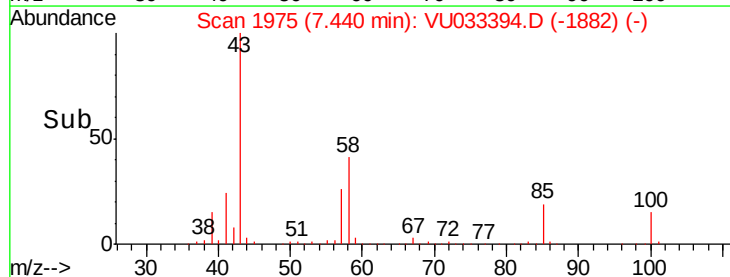
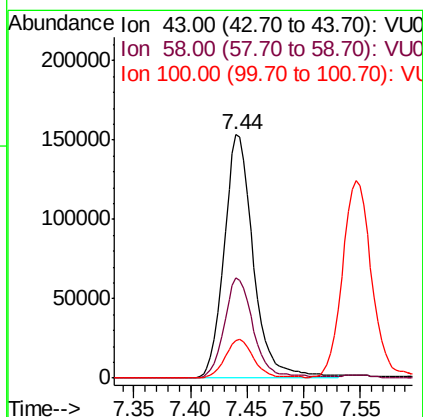
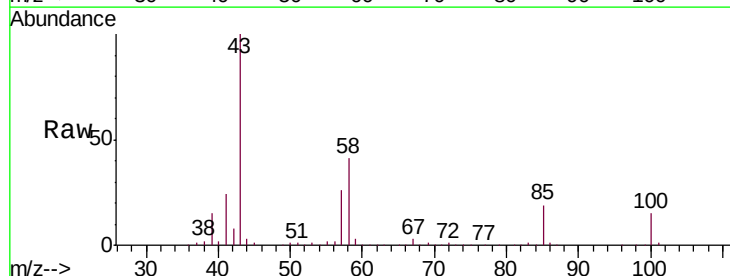
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

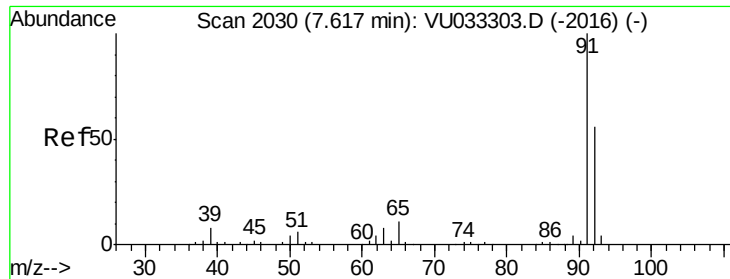
Tgt Ion: 75 Resp: 168815
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 92.322 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

Tgt Ion: 43 Resp: 276847
 Ion Ratio Lower Upper
 43 100
 58 41.0 33.3 49.9
 100 15.5 12.1 18.1





#42

Toluene

Concen: 51.034 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

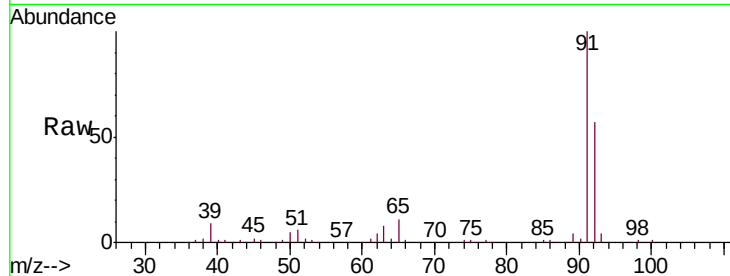
VSTD05055

Tgt Ion: 91 Resp: 453512

Ion Ratio Lower Upper

91 100

92 56.8 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU033303.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033303.D (-2016) (-)

7.62

250000

200000

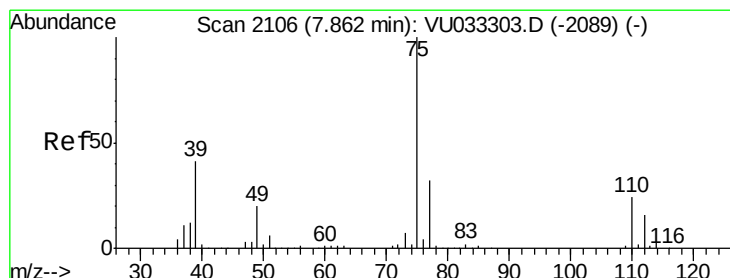
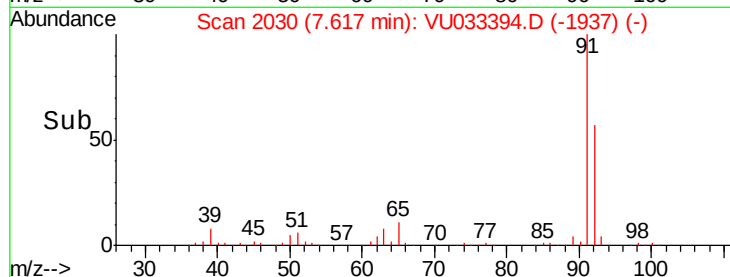
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.997 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033394.D

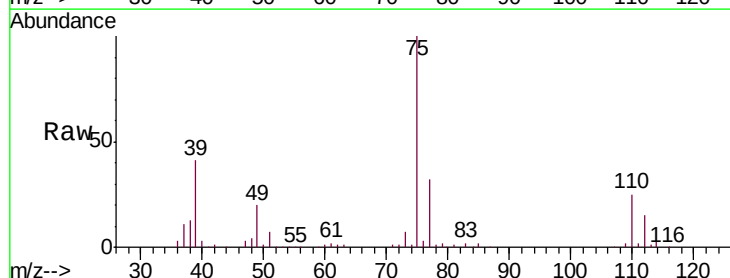
Acq: 25 Jul 2019 08:55

Tgt Ion: 75 Resp: 154537

Ion Ratio Lower Upper

75 100

77 31.6 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033303.D (-2089) (-)

Ion 77.00 (76.70 to 77.70): VU033303.D (-2089) (-)

7.86

100000

80000

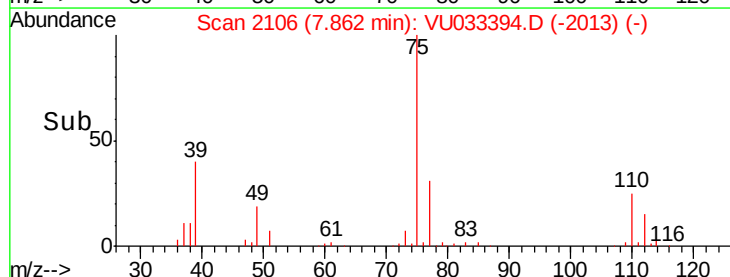
60000

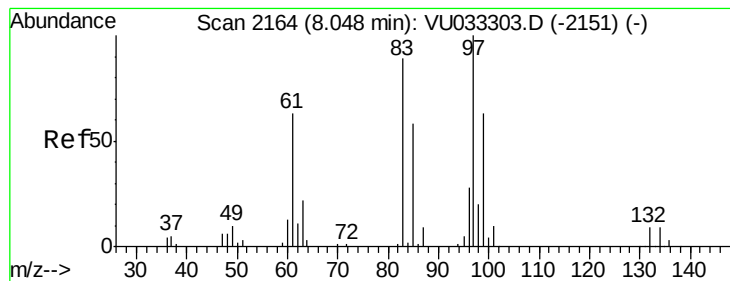
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 49.908 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

Tgt Ion: 97 Resp: 105511

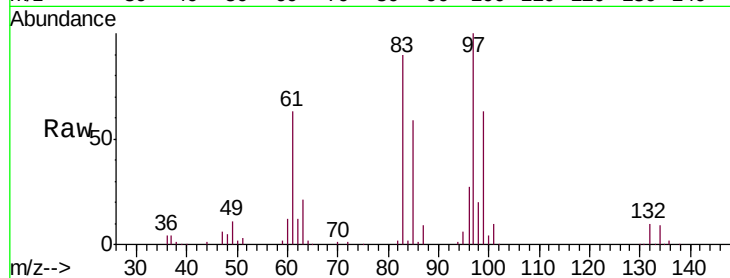
Ion Ratio Lower Upper

97 100

99 63.4 43.0 79.8

83 89.8 61.5 114.3

85 58.9 38.8 72.0

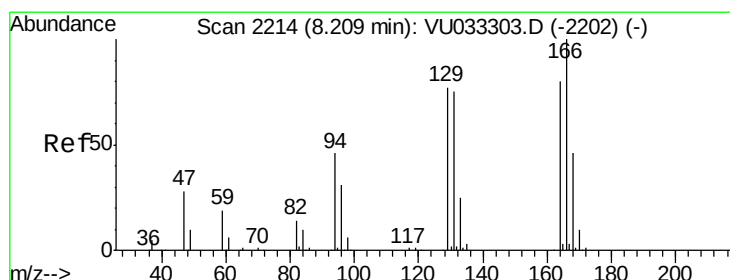
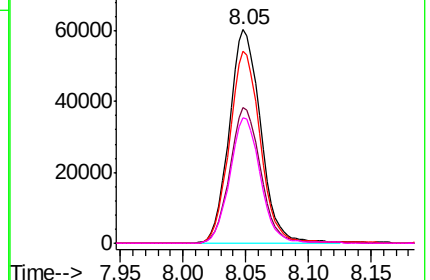
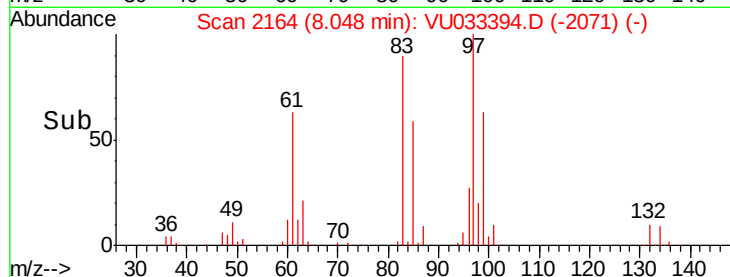


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 49.822 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Tgt Ion:164 Resp: 83141

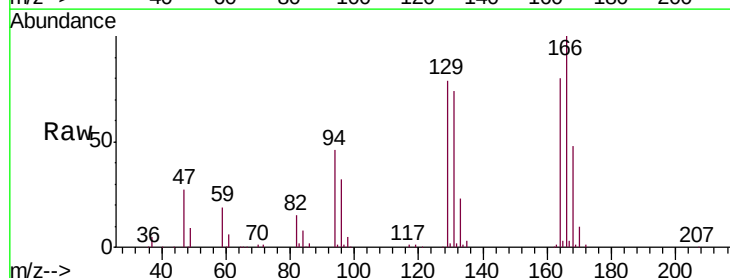
Ion Ratio Lower Upper

164 100

129 98.7 69.6 129.2

131 92.0 65.7 122.1

166 125.2 88.5 164.4

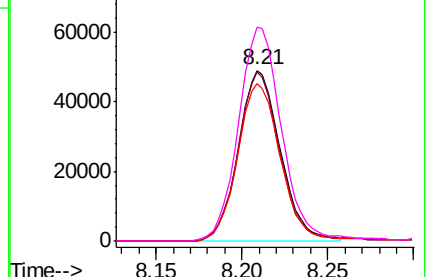
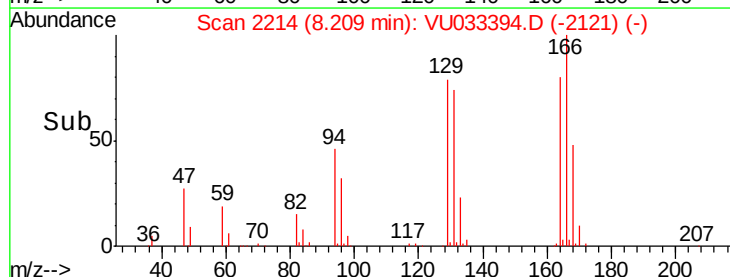


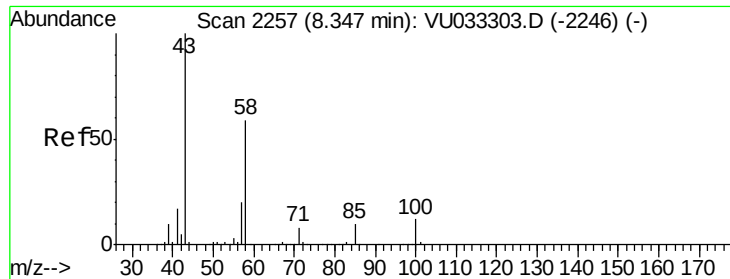
Abundance Ion 164.00 (163.70 to 164.70): V

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

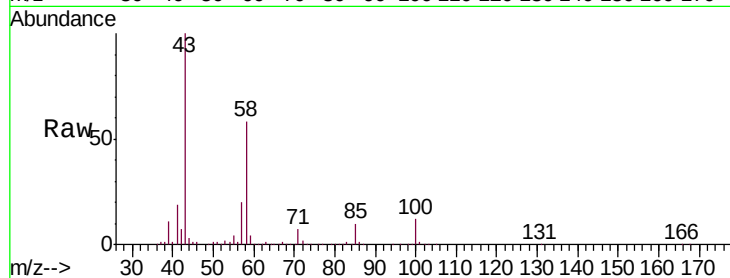




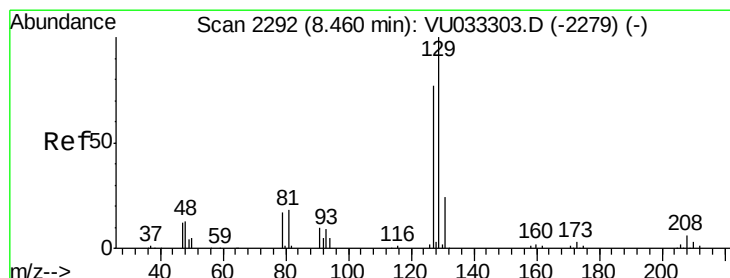
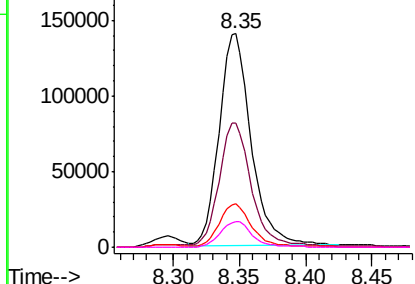
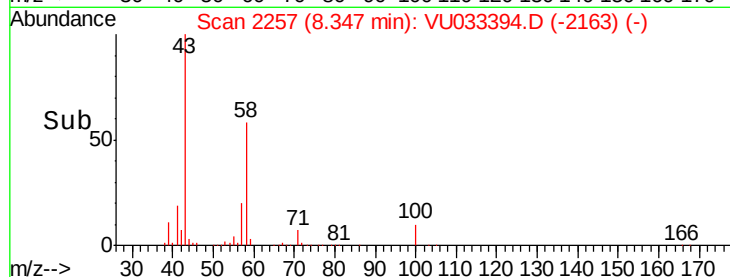
#48
2-Hexanone
Concen: 96.577 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

Tgt Ion:	43	Resp:	235935
Ion	Ratio	Lower	Upper
43	100		
58	59.5	46.1	69.1
57	20.2	15.8	23.8
100	12.3	9.4	14.2

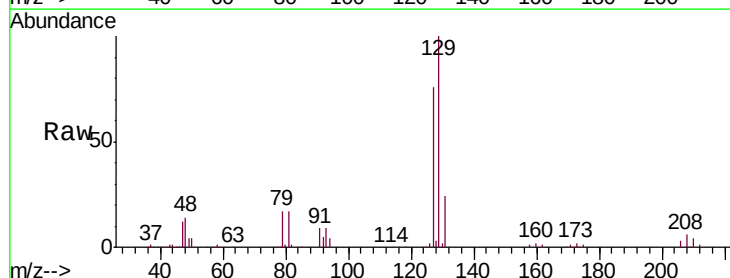


Abundance Ion 43.00 (42.70 to 43.70): VU033394.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033394.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033394.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033394.D (-2163) (-)

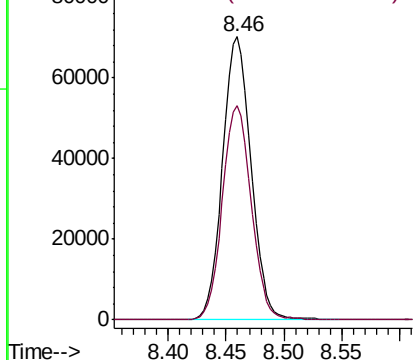
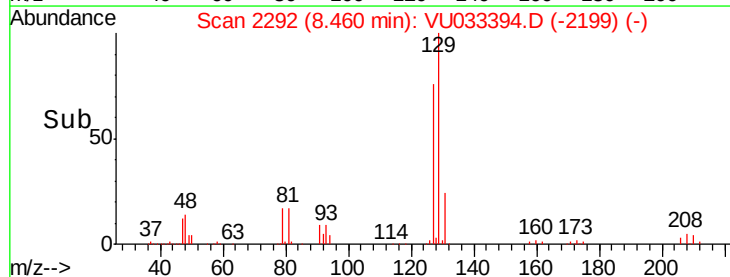


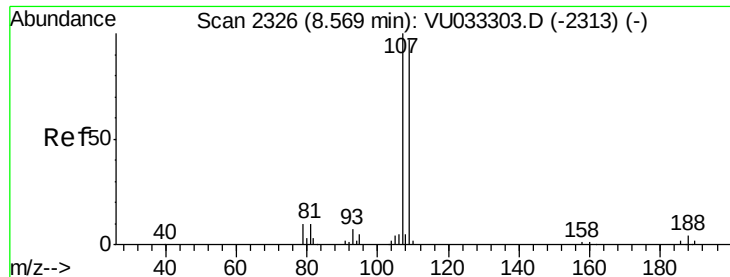
#49
Dibromochloromethane
Concen: 50.764 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

Tgt Ion:	129	Resp:	119718
Ion	Ratio	Lower	Upper
129	100		
127	75.6	54.3	100.9



Abundance Ion 129.00 (128.70 to 129.70): VU033394.D (-2199) (-)
Ion 127.00 (126.70 to 127.70): VU033394.D (-2199) (-)

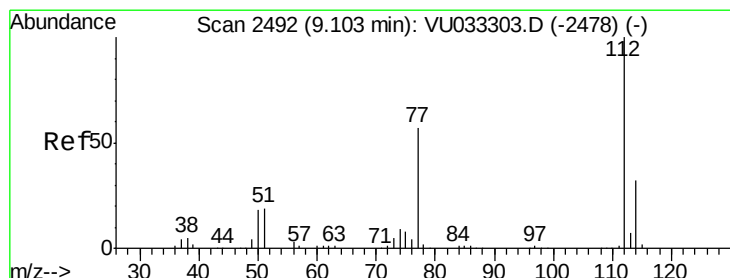
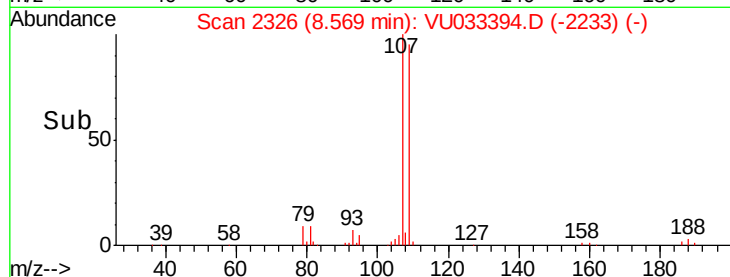
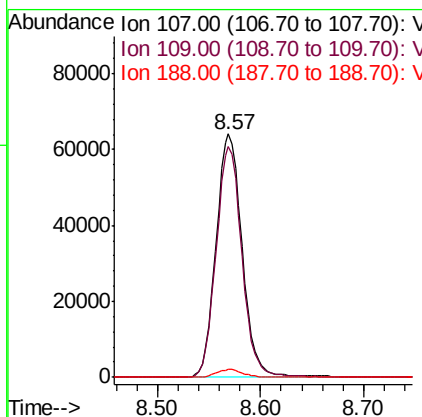
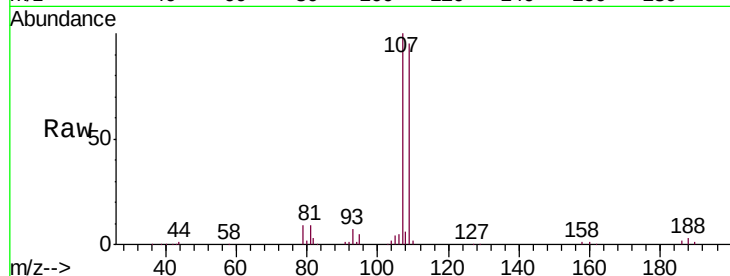




#50
1,2-Dibromoethane
Concen: 48.895 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

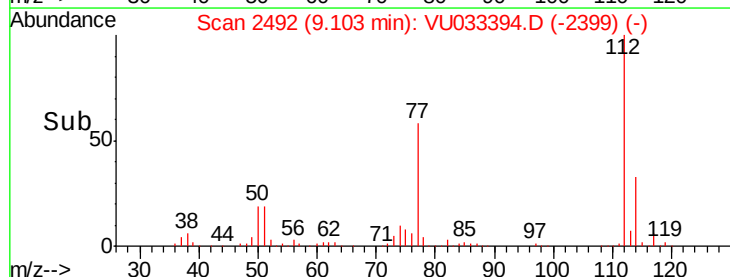
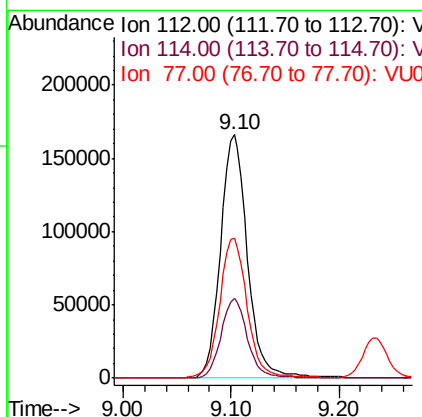
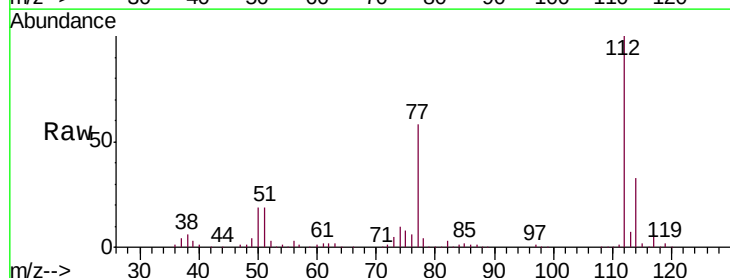
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

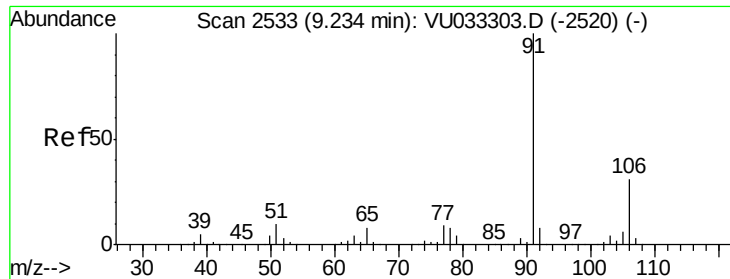
Tgt Ion:107 Resp: 112707
Ion Ratio Lower Upper
107 100
109 94.8 64.2 119.2
188 3.4 2.6 4.0



#51
Chlorobenzene
Concen: 49.694 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033394.D
Acq: 25 Jul 2019 08:55

Tgt Ion:112 Resp: 288239
Ion Ratio Lower Upper
112 100
114 32.7 22.3 41.3
77 57.6 47.2 70.8





#52

Ethylbenzene

Concen: 50.801 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

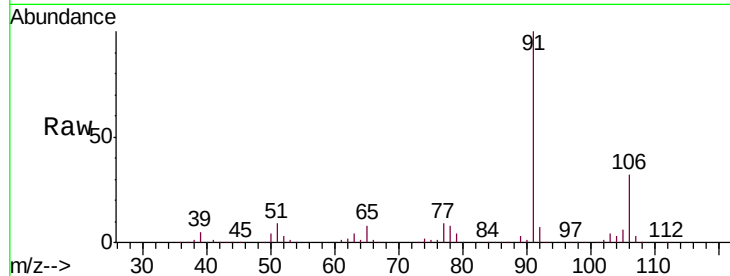
VSTD05055

Tgt Ion: 91 Resp: 483064

Ion Ratio Lower Upper

91 100

106 31.5 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU033303.D (-2520) (-)

Ion 106.00 (105.70 to 106.70): VU033303.D (-2520) (-)

9.23

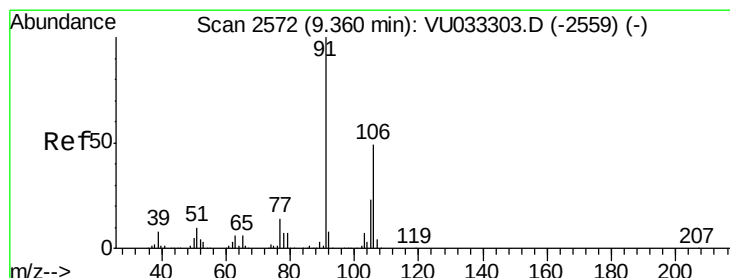
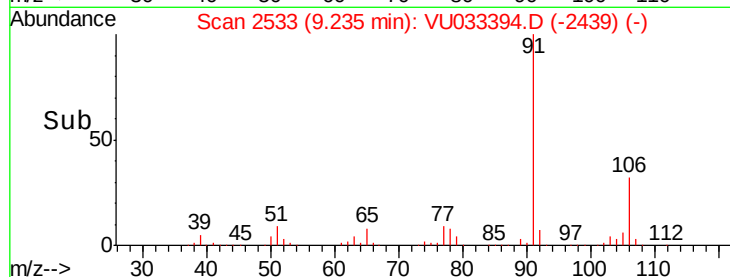
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 52.570 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033394.D

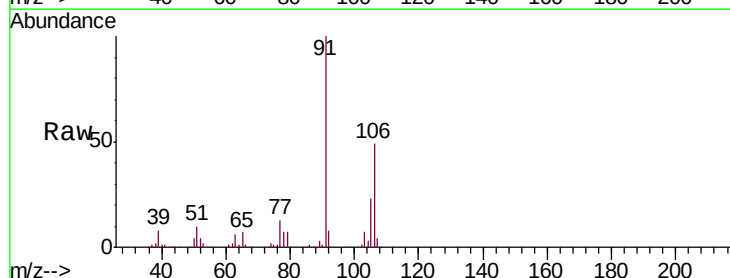
Acq: 25 Jul 2019 08:55

Tgt Ion: 106 Resp: 189342

Ion Ratio Lower Upper

106 100

91 202.5 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VU033303.D (-2559) (-)

Ion 91.00 (90.70 to 91.70): VU033303.D (-2559) (-)

9.36

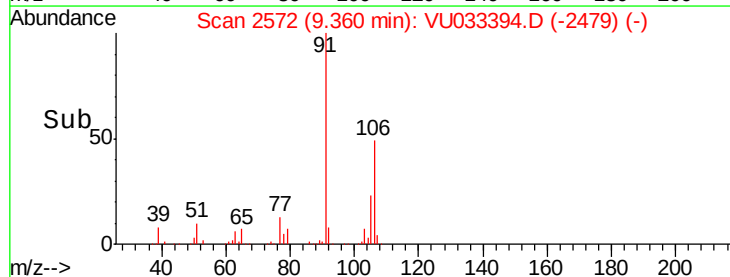
300000

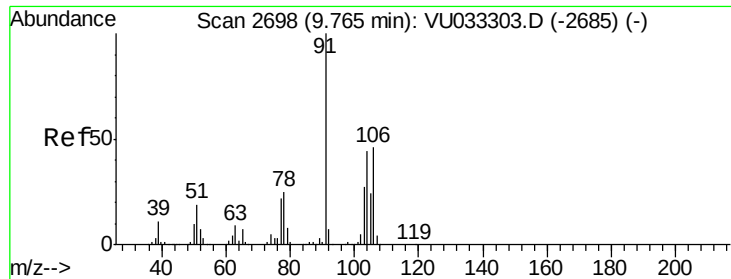
200000

100000

0

Time-->





#54

o-xylene

Concen: 51.048 ug/L

RT: 9.77 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

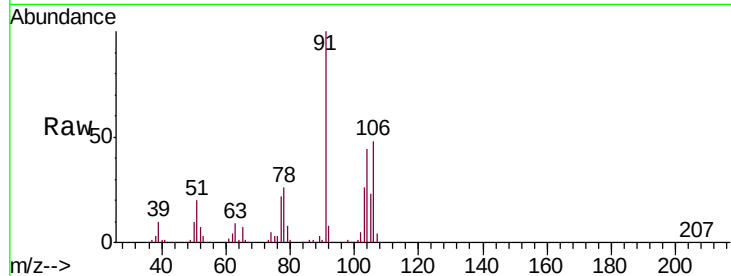
VSTD05055

Tgt Ion:106 Resp: 182566

Ion Ratio Lower Upper

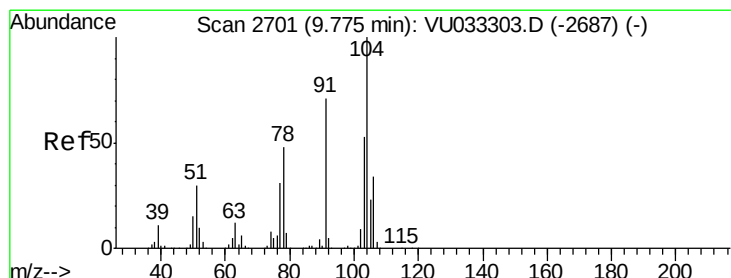
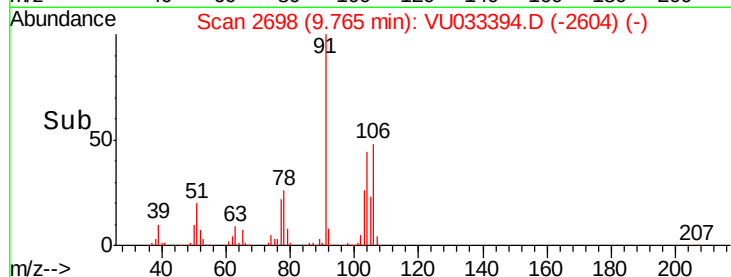
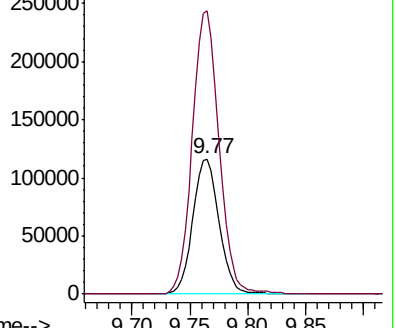
106 100

91 209.0 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.384 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033394.D

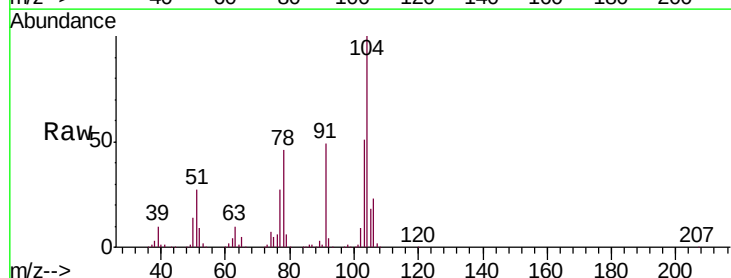
Acq: 25 Jul 2019 08:55

Tgt Ion:104 Resp: 317620

Ion Ratio Lower Upper

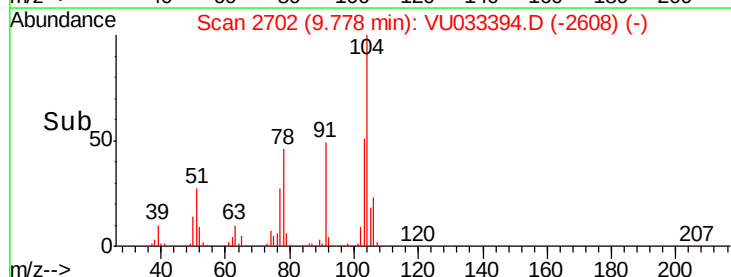
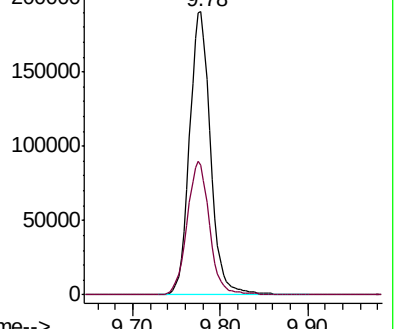
104 100

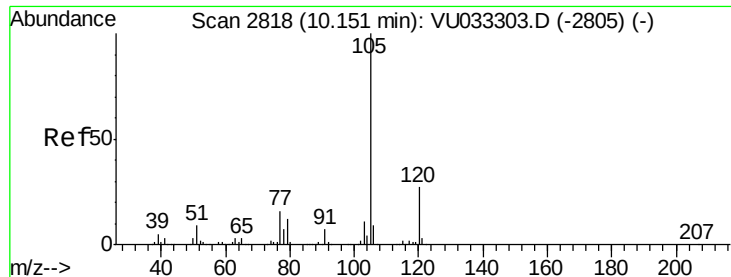
78 45.7 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.278 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

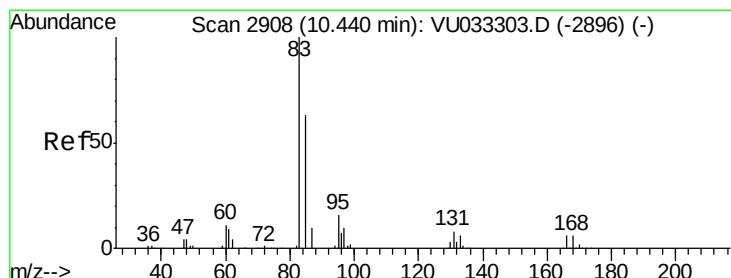
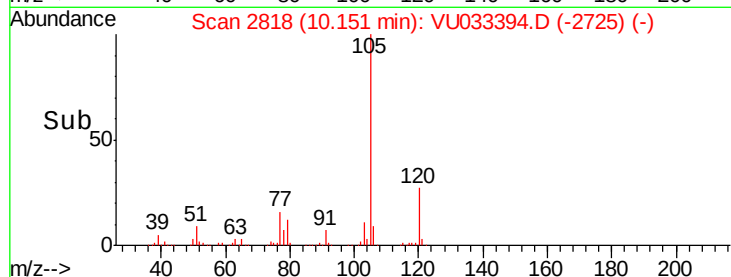
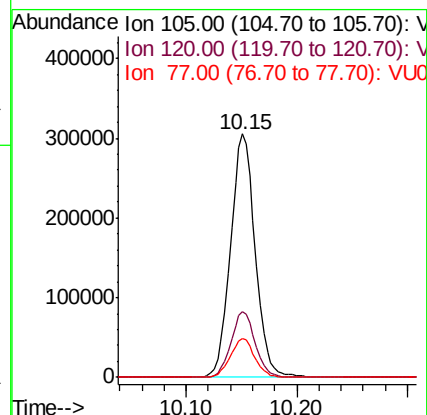
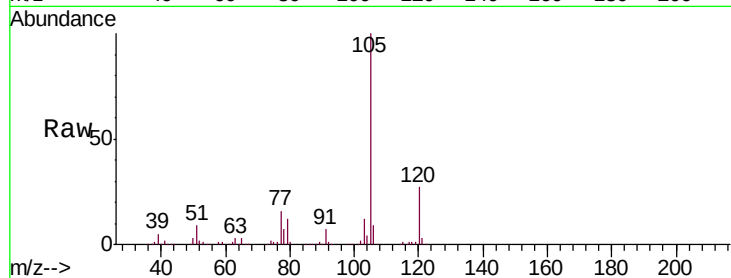
Tgt Ion: 105 Resp: 471899

Ion Ratio Lower Upper

105 100

120 26.7 21.2 31.8

77 16.0 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 50.074 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

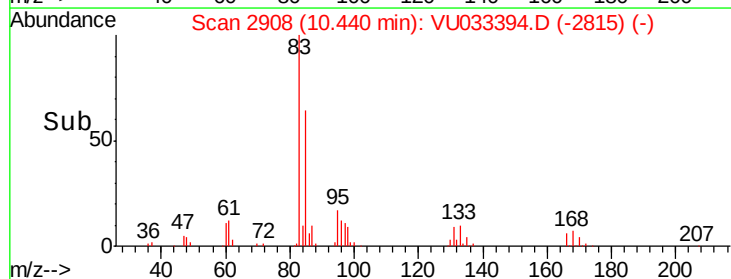
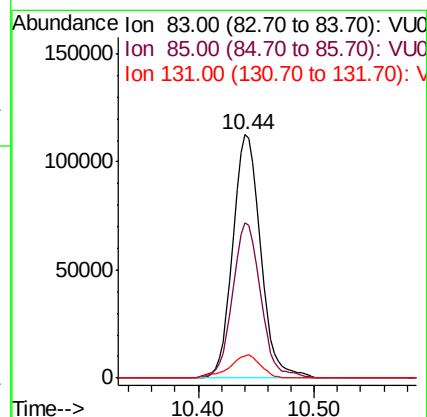
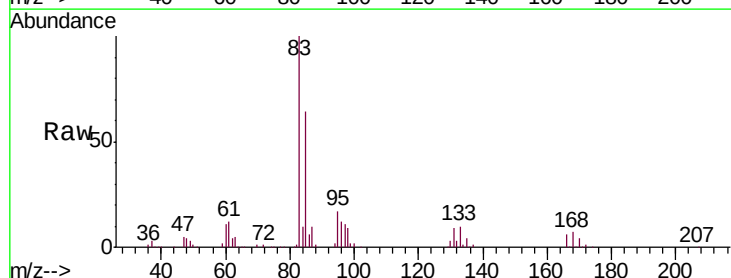
Tgt Ion: 83 Resp: 185951

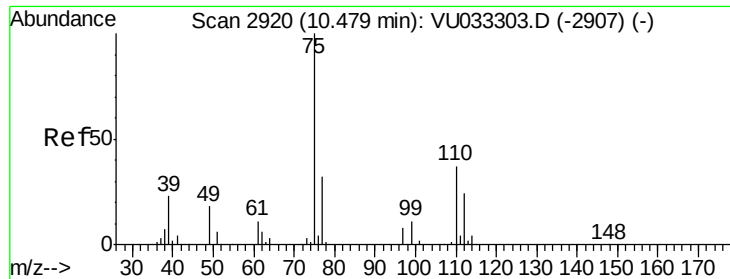
Ion Ratio Lower Upper

83 100

85 63.8 44.9 83.3

131 9.4 7.6 11.4





#59

1,2,3-Trichloropropane

Concen: 47.684 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

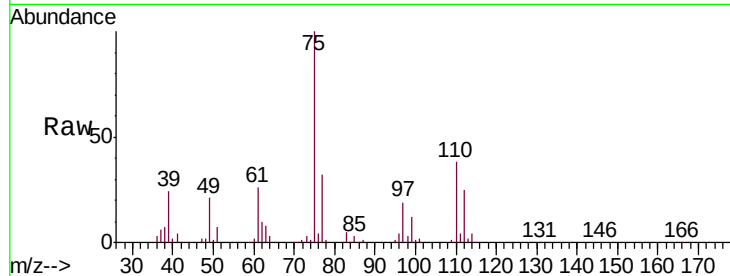
VSTD05055

Tgt Ion: 75 Resp: 138764

Ion Ratio Lower Upper

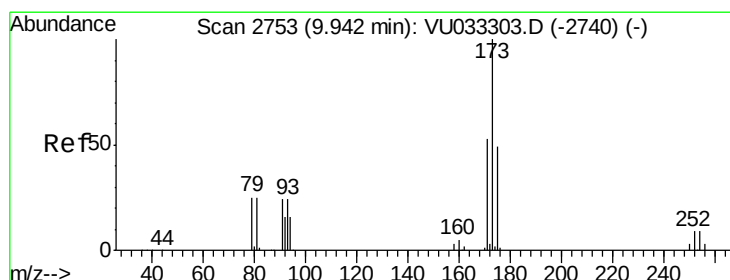
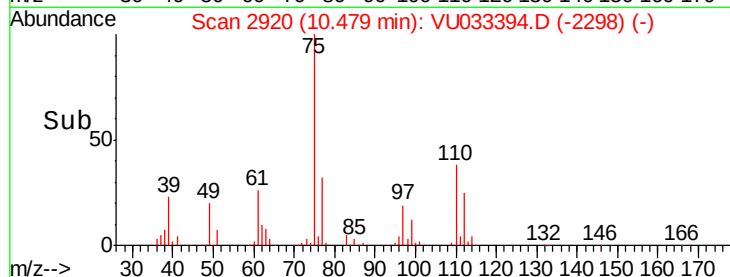
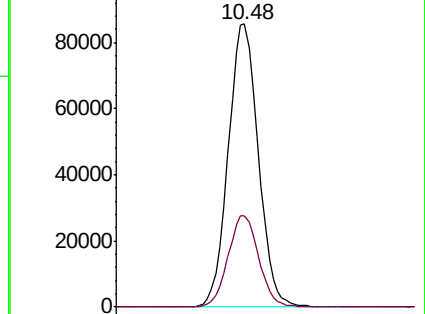
75 100

77 33.3 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU033303.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033303.D (-2907) (-)



#61

Bromoform

Concen: 49.792 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

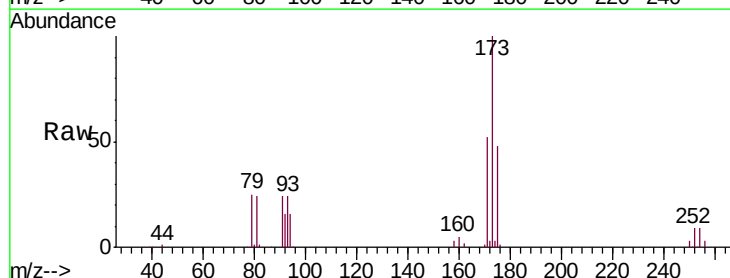
Tgt Ion: 173 Resp: 86455

Ion Ratio Lower Upper

173 100

175 48.6 40.0 60.0

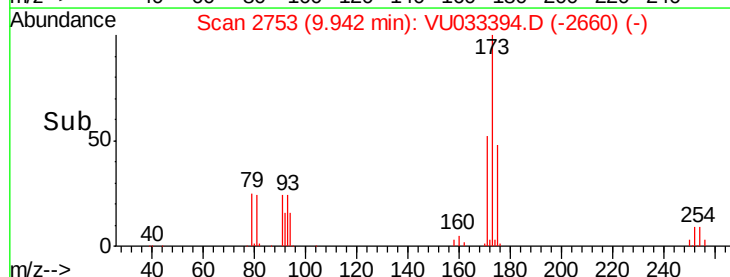
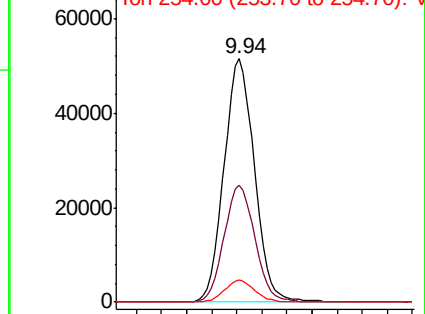
254 8.8 7.3 10.9

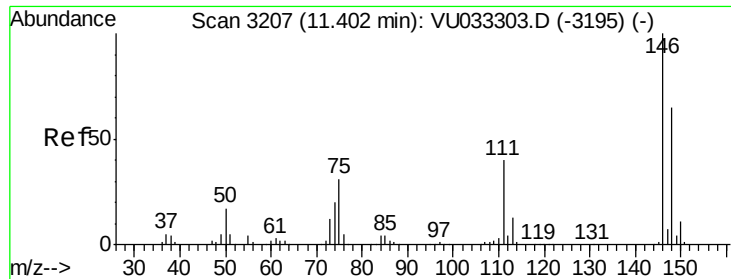


Abundance Ion 173.00 (172.70 to 173.70): VU033303.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033303.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033303.D (-2740) (-)

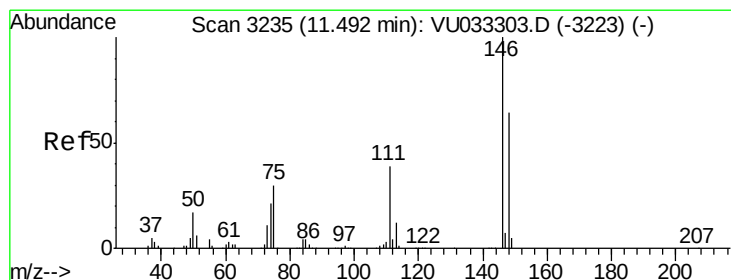
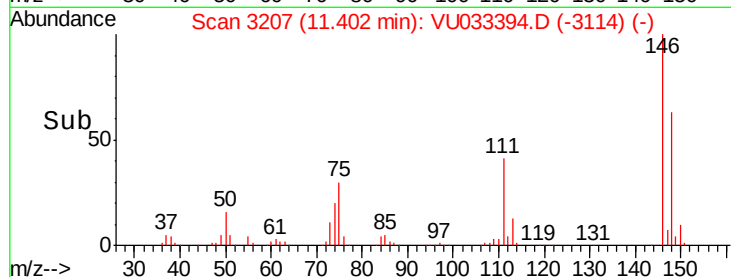
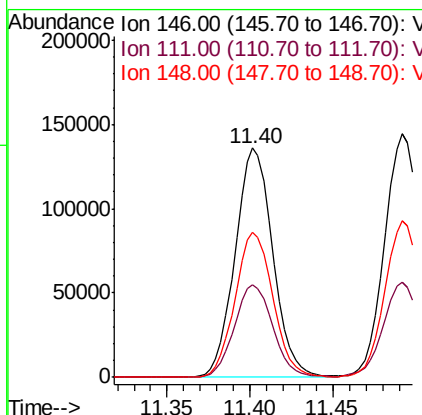
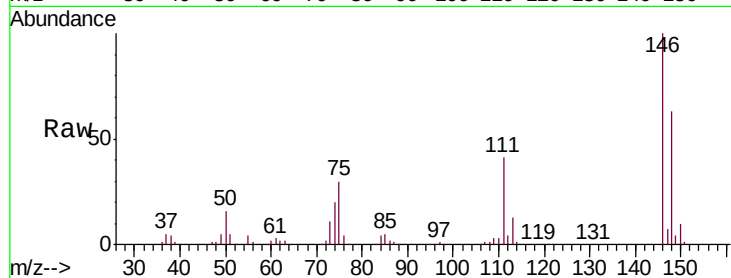




#62
 1,3-Dichlorobenzene
 Concen: 49.235 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

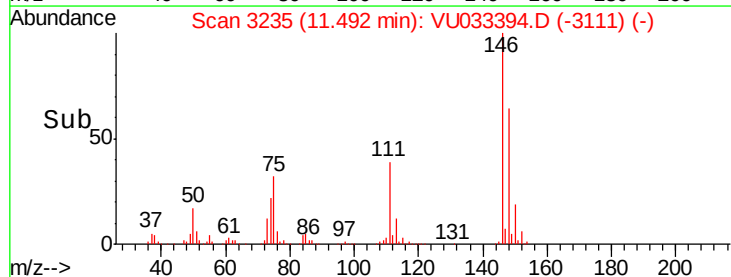
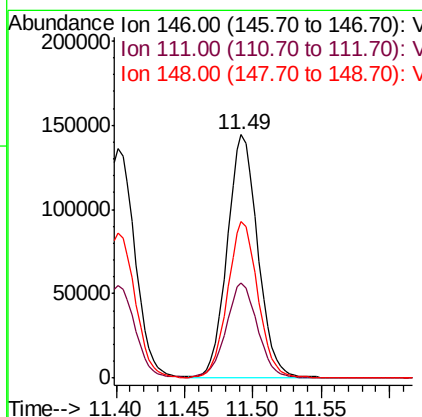
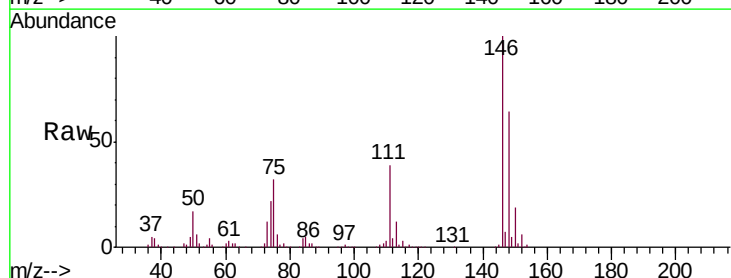
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

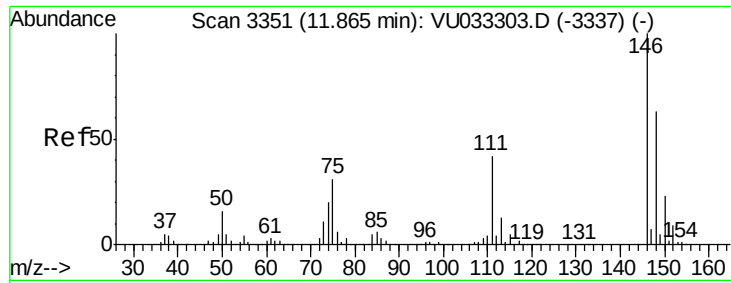
Tgt Ion:146 Resp: 215470
 Ion Ratio Lower Upper
 146 100
 111 40.5 28.0 52.0
 148 63.3 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 49.171 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

Tgt Ion:146 Resp: 224998
 Ion Ratio Lower Upper
 146 100
 111 39.3 27.8 51.6
 148 64.2 44.6 82.8





#65

1,2-Dichlorobenzene

Concen: 49.895 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

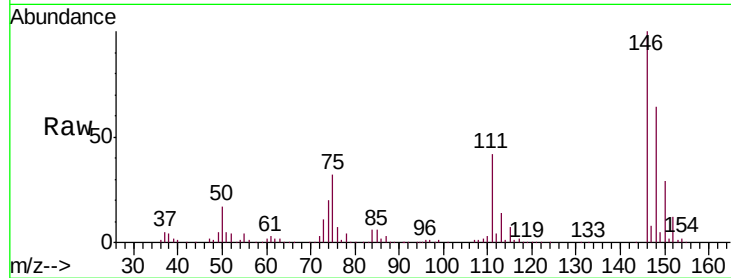
Tgt Ion: 146 Resp: 223941

Ion Ratio Lower Upper

146 100

111 42.3 34.3 51.5

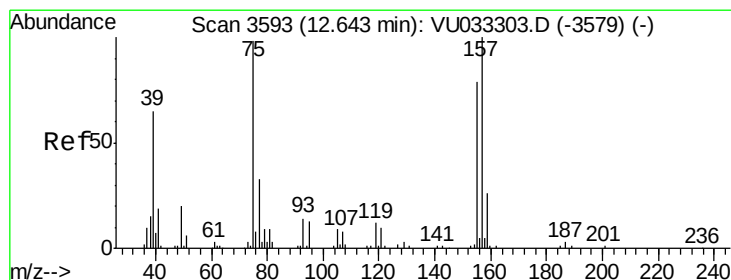
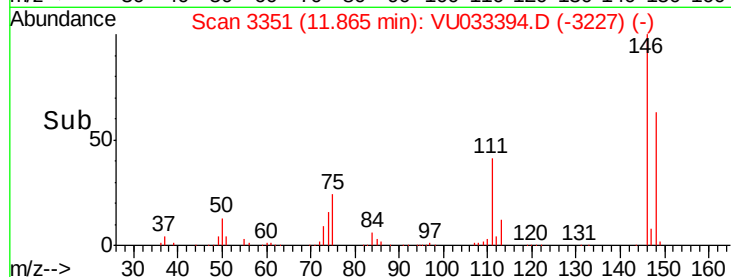
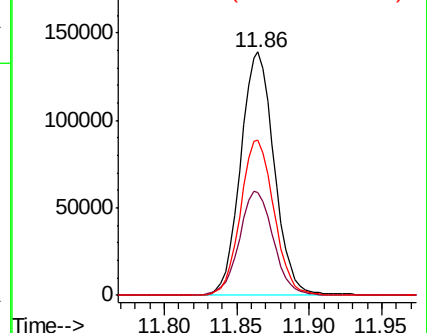
148 63.6 51.5 77.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 46.767 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

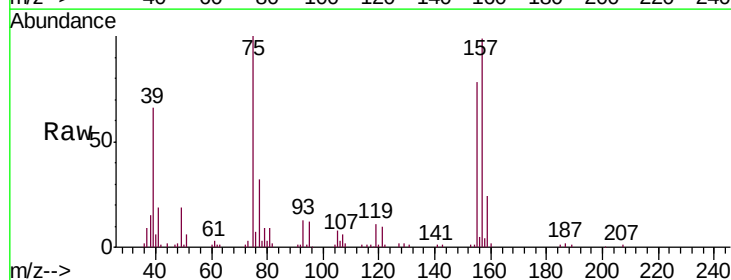
Tgt Ion: 75 Resp: 40062

Ion Ratio Lower Upper

75 100

155 77.7 63.5 95.3

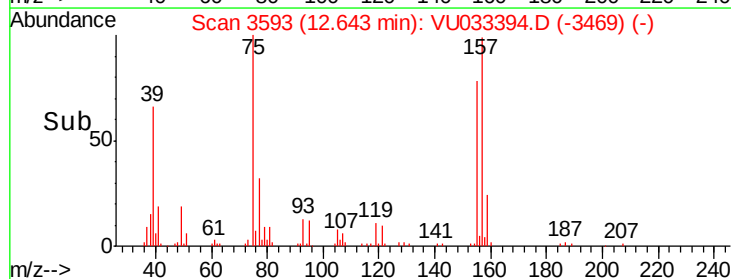
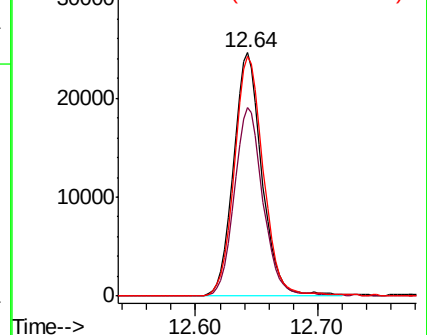
157 98.7 84.6 127.0

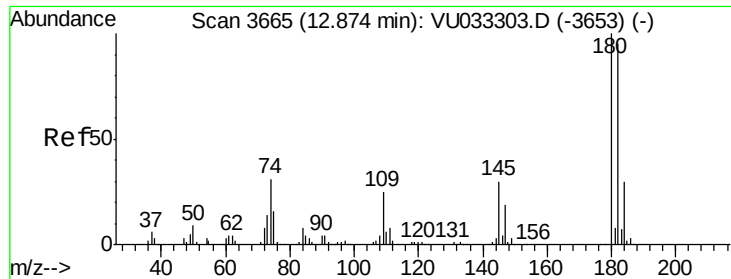


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

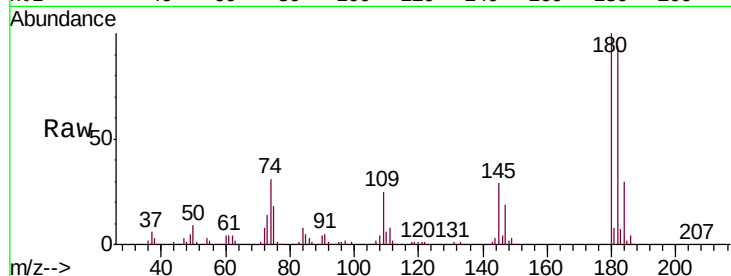




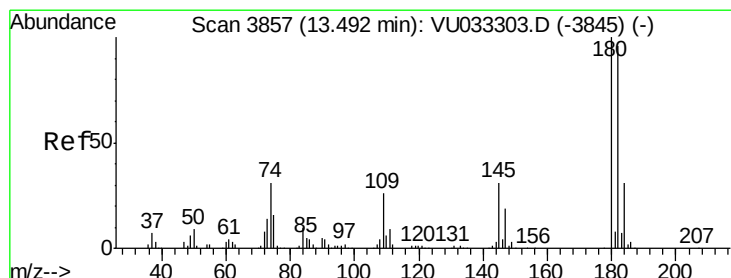
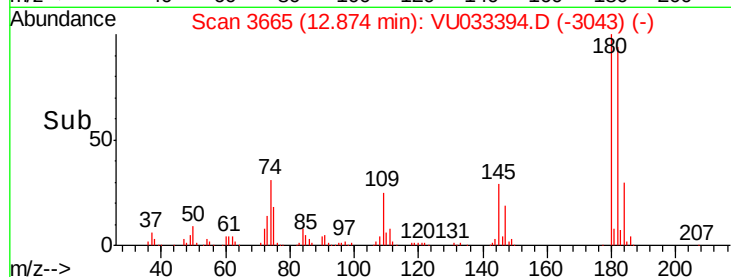
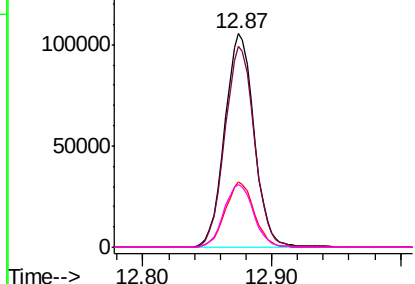
#67
 1,3,5-Trichlorobenzene
 Concen: 52.691 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion:180 Resp: 166650
 Ion Ratio Lower Upper
 180 100
 182 94.9 75.5 113.3
 184 30.2 24.2 36.2
 145 29.8 24.1 36.1

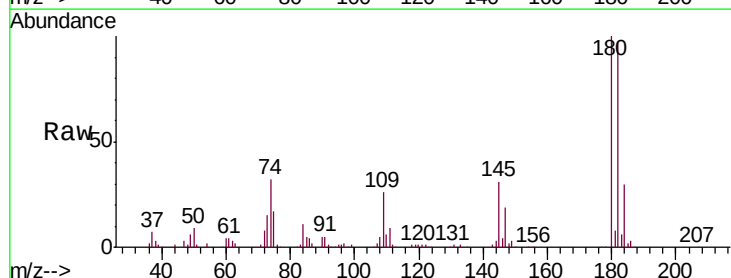


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

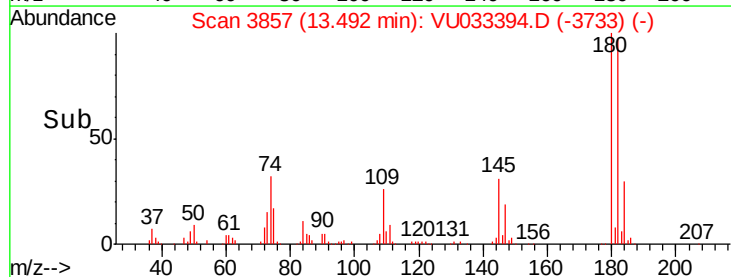
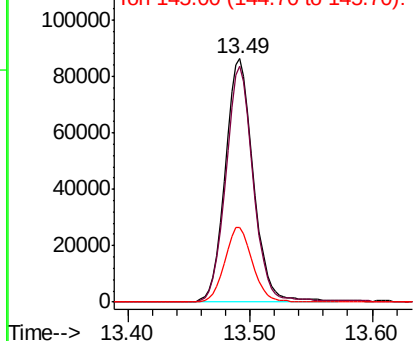


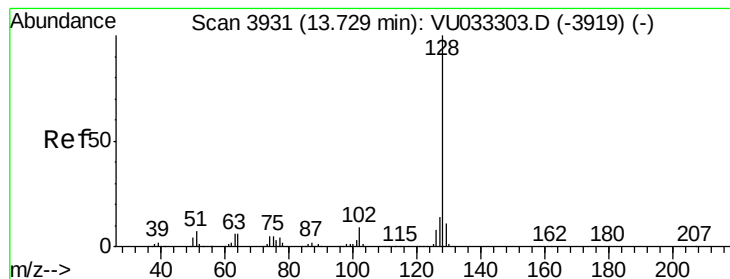
#68
 1,2,4-trichlorobenzene
 Concen: 50.715 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033394.D
 Acq: 25 Jul 2019 08:55

Tgt Ion:180 Resp: 140104
 Ion Ratio Lower Upper
 180 100
 182 94.2 76.5 114.7
 145 30.4 24.6 36.8



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





#69

Naphthalene

Concen: 49.270 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

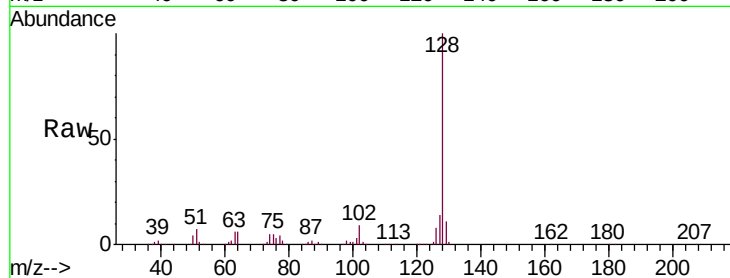
Tgt Ion:128 Resp: 436422

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

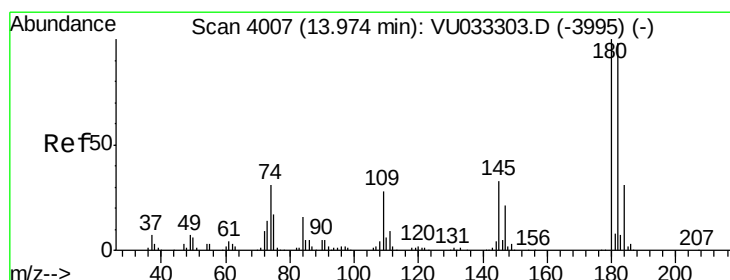
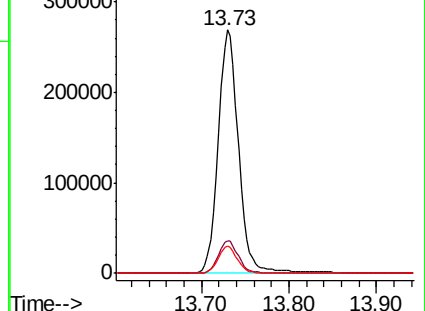
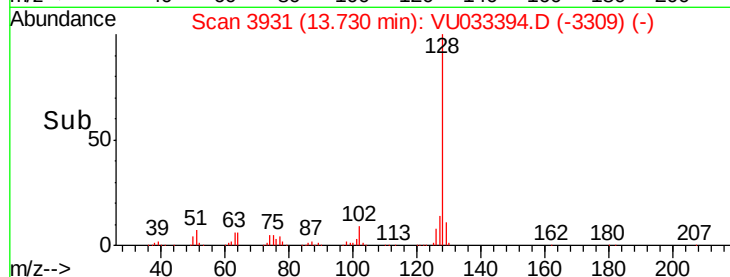
129 10.7 8.7 13.1



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: 49.660 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033394.D

Acq: 25 Jul 2019 08:55

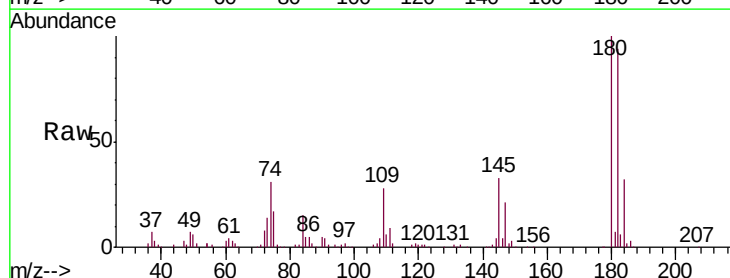
Tgt Ion:180 Resp: 148942

Ion Ratio Lower Upper

180 100

182 95.5 77.4 116.2

145 32.1 26.2 39.2



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

