

Data File : VU033494.D
Acq On : 30 Jul 2019 15:45
Operator : JC/SP
Sample : VSTD05036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

Quant Time: Jul 31 07:38:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 07:35:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	329121	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	330003	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	178121	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	116551	46.93	ug/L	0.00
7) Chloroethane-d5	1.67	69	103805	48.69	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	207206	47.06	ug/L	0.00
21) 2-Butanone-d5	4.15	46	159167	99.79	ug/L	0.00
24) Chloroform-d	4.62	84	194375	46.76	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	124088	46.52	ug/L	0.00
32) Benzene-d6	5.32	84	399299	48.95	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	124823	47.73	ug/L	0.00
41) Toluene-d8	7.55	98	377416	49.10	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	61045	48.02	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	123574	103.19	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187492	47.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	151071	47.31	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	156598	47.801	ug/L	100
3) Chloromethane	1.32	50	160300	49.368	ug/L	100
5) Vinyl chloride	1.40	62	168595	45.646	ug/L	100
6) Bromomethane	1.62	94	144311	57.899	ug/L	100
8) Chloroethane	1.69	64	107371	47.846	ug/L	100
9) Trichlorofluoromethane	1.87	101	223690	46.090	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	110554	49.291	ug/L	100
12) 1,1-Dichloroethene	2.27	96	106531	48.642	ug/L	100
13) Acetone	2.31	43	170931	87.046	ug/L	100
14) Carbon disulfide	2.46	76	330197	48.777	ug/L	100
15) Methyl Acetate	2.60	43	132289	50.491	ug/L	100
16) Methylene chloride	2.68	84	123216	48.733	ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	112378	49.067	ug/L	100
18) Methyl tert-butyl Ether	2.98	73	351839	49.763	ug/L	100
19) 1,1-Dichloroethane	3.42	63	213814	48.655	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	126188	48.943	ug/L	100
22) 2-Butanone	4.24	43	212128	96.276	ug/L	100
23) Bromochloromethane	4.52	128	67314	50.557	ug/L	100
25) Chloroform	4.65	83	228143	48.680	ug/L	100
27) 1,2-Dichloroethane	5.38	62	174860	48.530	ug/L	100
29) Cyclohexane	4.97	56	183529	50.300	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	190653	48.740	ug/L	100
31) Carbon tetrachloride	5.11	117	167303	48.948	ug/L	100
33) Benzene	5.37	78	487915	49.922	ug/L	100
34) Trichloroethene	6.16	95	123546	48.410	ug/L	100
35) Methylcyclohexane	6.40	83	199661	50.805	ug/L	100
37) 1,2-Dichloropropane	6.41	63	128558	48.679	ug/L	100
38) Bromodichloromethane	6.74	83	166504	48.925	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	202363	49.427	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	364510	101.801	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	529707	50.322	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	184027	50.346	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	122457	48.972	ug/L	100
46) Tetrachloroethene	8.21	164	103318	51.574	ug/L	100
48) 2-Hexanone	8.34	43	300072	102.925	ug/L	100
49) Dibromochloromethane	8.46	129	140380	50.019	ug/L	100
50) 1,2-Dibromoethane	8.57	107	136534	49.929	ug/L	100
51) Chlorobenzene	9.10	112	338067	49.201	ug/L	100
52) Ethylbenzene	9.23	91	569350	50.604	ug/L	100
53) m,p-Xylene	9.36	106	216597	50.830	ug/L	100
54) o-xylene	9.76	106	217251	51.257	ug/L	100
55) Styrene	9.77	104	372384	51.879	ug/L	100
56) Isopropylbenzene	10.15	105	558786	51.233	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	220507	49.979	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	171321	49.536	ug/L	100
61) Bromoform	9.94	173	109005	49.108	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	273380	48.997	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	279215	48.038	ug/L	100
65) 1,2-Dichlorobenzene	11.86	146	277499	48.675	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	50964	46.939	ug/L	100
67) 1,3,5-Trichlorobenzene	12.87	180	216988	53.043	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	190184	53.191	ug/L	100
69) Naphthalene	13.73	128	566824	50.567	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	201094	51.786	ug/L	100

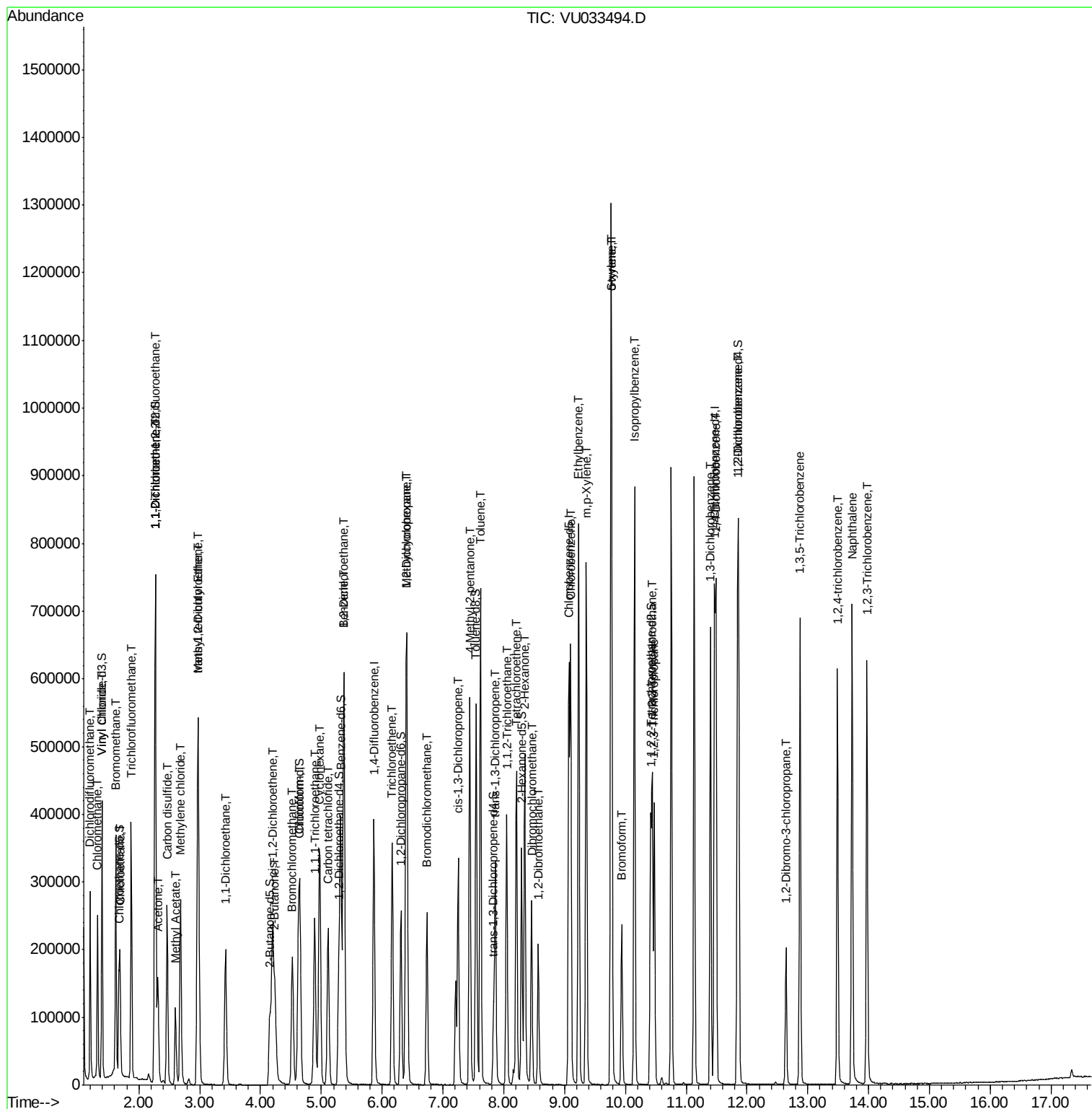
(#) = qualifier out of range (m) = manual integration (+) = signals summed

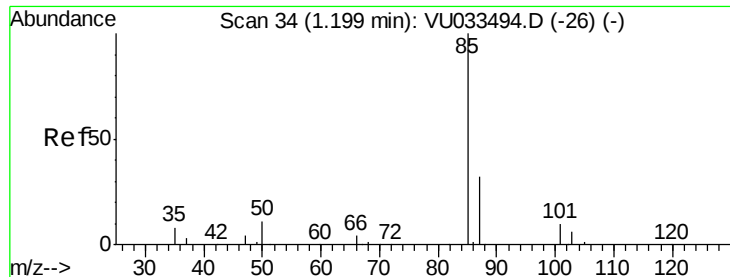
Data File : VU033494.D

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#2

Dichlorodifluoromethane

Concen: 47.801 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

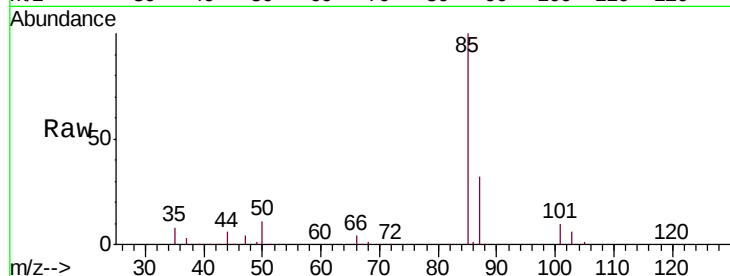
VSTD05036

Tgt Ion: 85 Resp: 156598

Ion Ratio Lower Upper

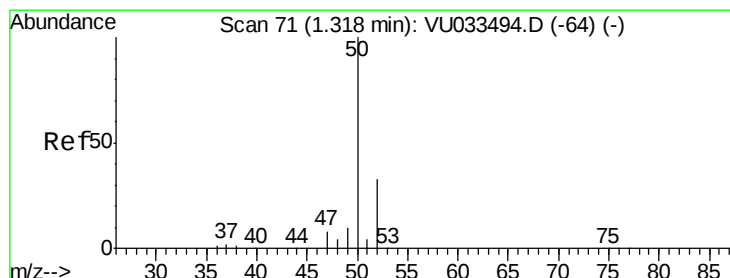
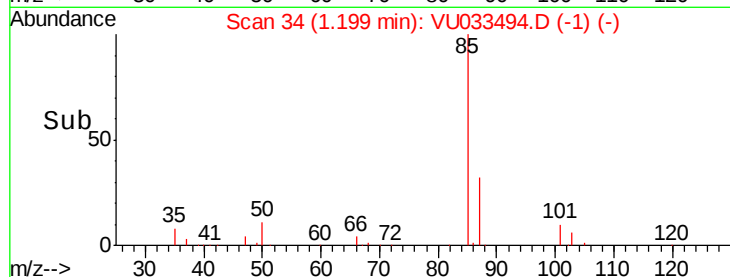
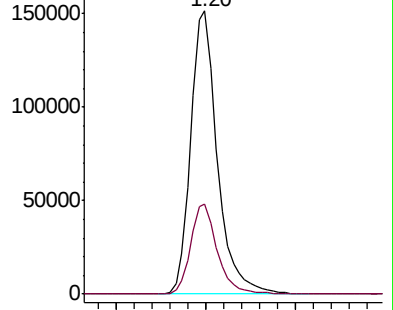
85 100

87 31.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033494.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033494.D (-26) (-)



#3

Chloromethane

Concen: 49.368 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033494.D

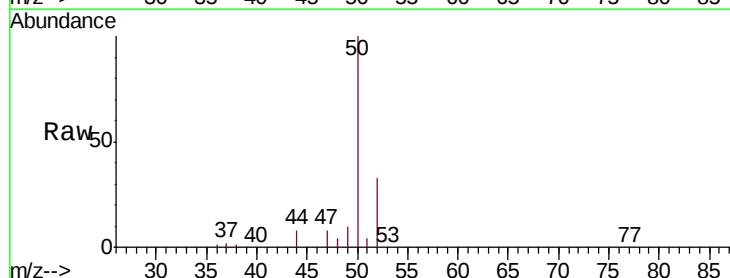
Acq: 30 Jul 2019 15:45

Tgt Ion: 50 Resp: 160300

Ion Ratio Lower Upper

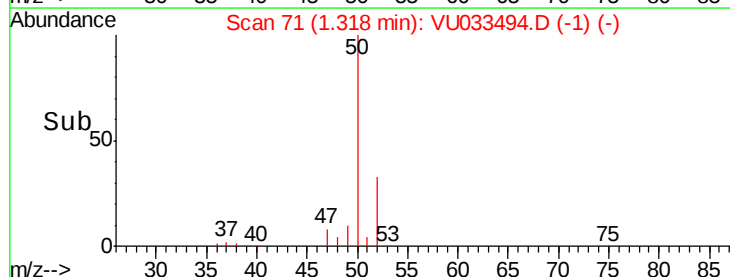
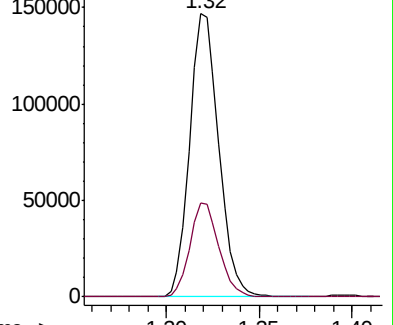
50 100

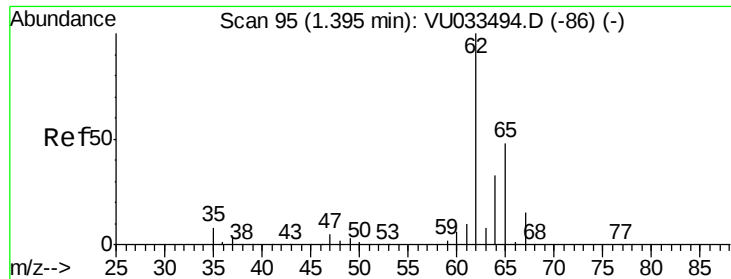
52 33.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033494.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033494.D (-64) (-)





#5

Vinyl chloride

Concen: 45.646 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

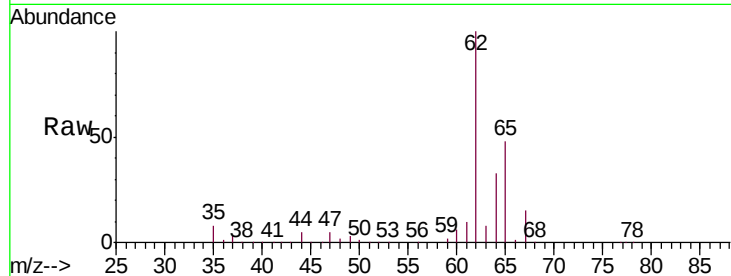
VSTD05036

Tgt Ion: 62 Resp: 168595

Ion Ratio Lower Upper

62 100

64 33.4 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033494.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033494.D (-86) (-)

1.40

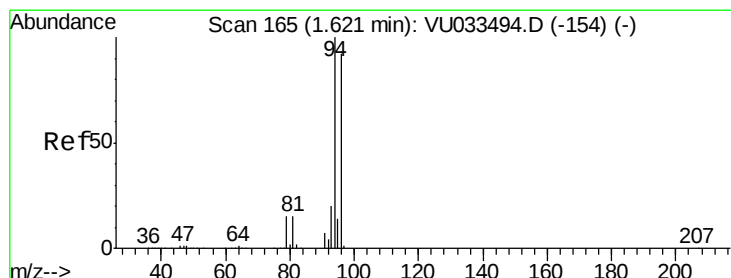
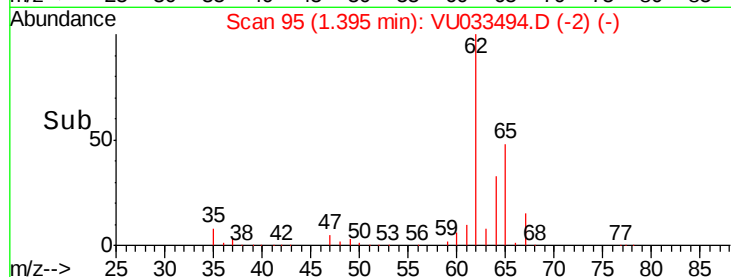
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 57.899 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033494.D

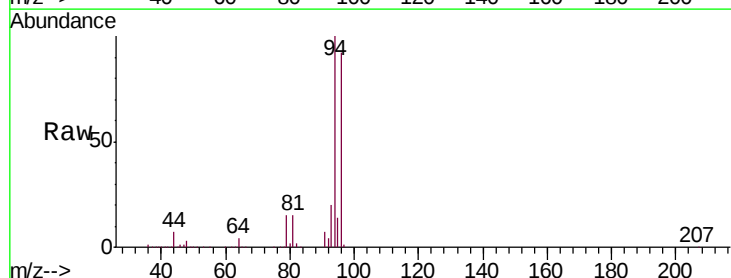
Acq: 30 Jul 2019 15:45

Tgt Ion: 94 Resp: 144311

Ion Ratio Lower Upper

94 100

96 92.0 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033494.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033494.D (-154) (-)

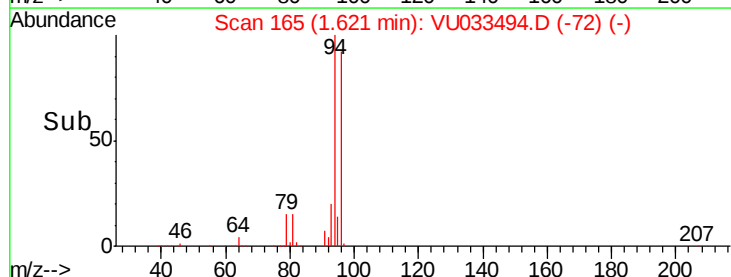
150000

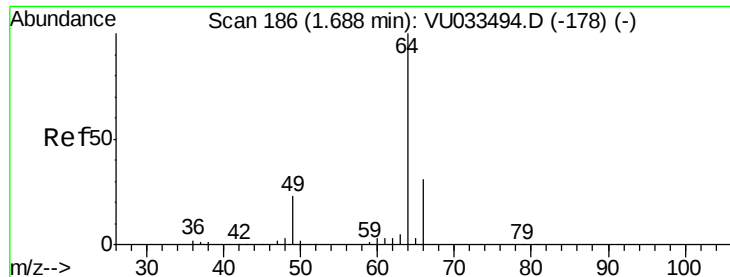
100000

50000

0

Time-->





#8

Chloroethane

Concen: 47.846 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

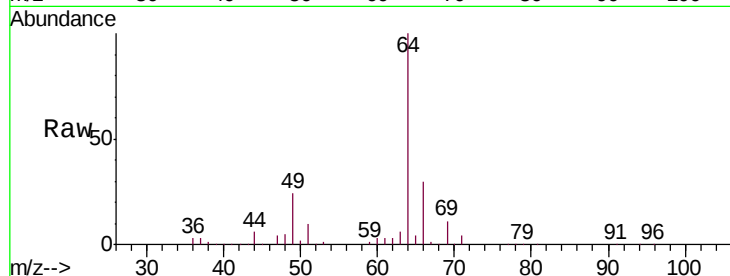
VSTD05036

Tgt Ion: 64 Resp: 107371

Ion Ratio Lower Upper

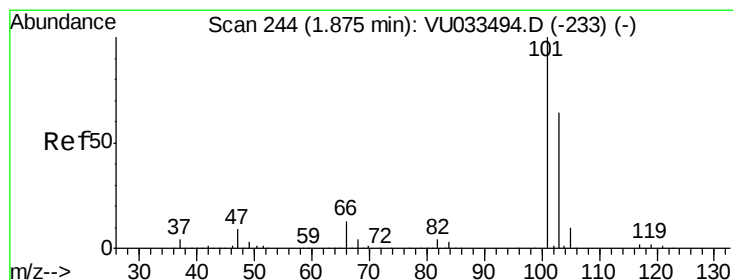
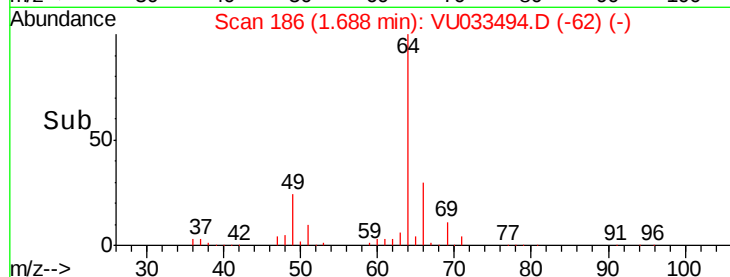
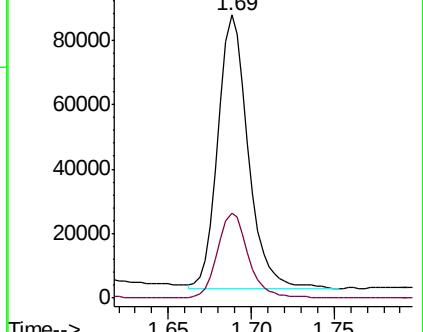
64 100

66 30.2 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VU033494.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033494.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 46.090 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033494.D

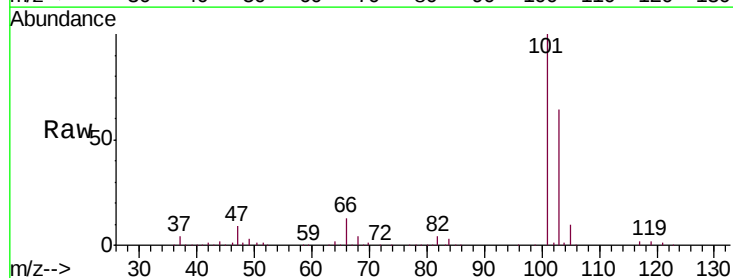
Acq: 30 Jul 2019 15:45

Tgt Ion: 101 Resp: 223690

Ion Ratio Lower Upper

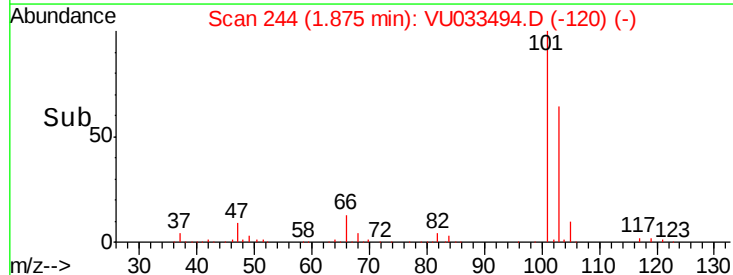
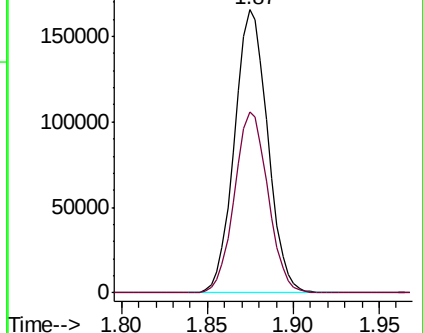
101 100

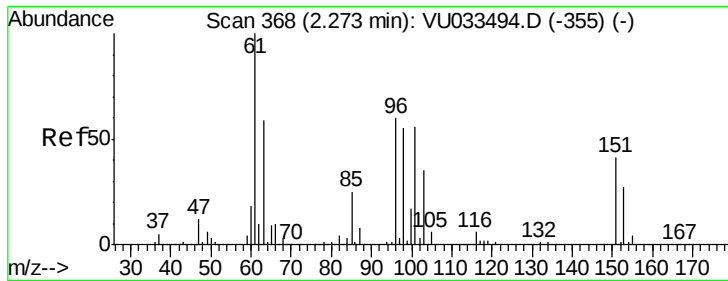
103 64.5 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU033494.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033494.D (-233) (-)





#10

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

Concen: 49.291 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

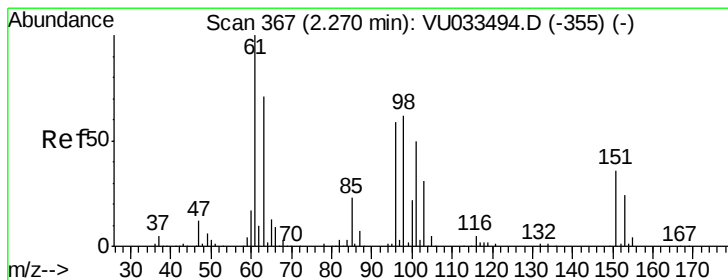
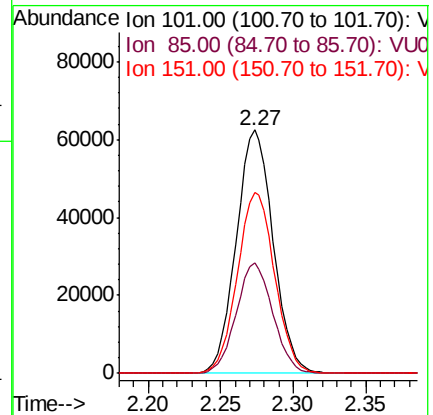
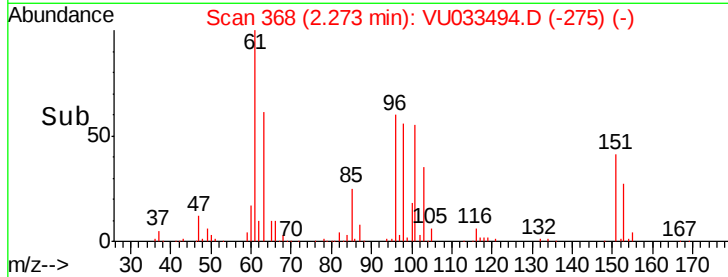
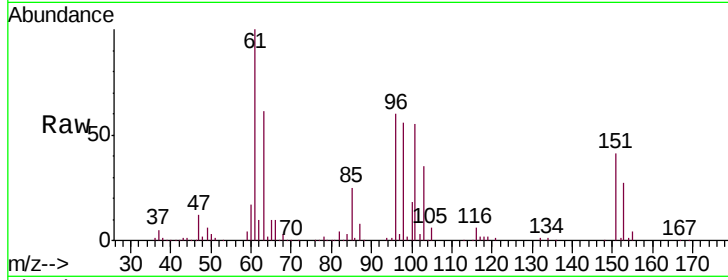
Tgt Ion: 101 Resp: 110554

Ion Ratio Lower Upper

101 100

85 44.8 35.8 53.8

151 75.1 60.1 90.1



#12

1,1-Dichloroethene

Concen: 48.642 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

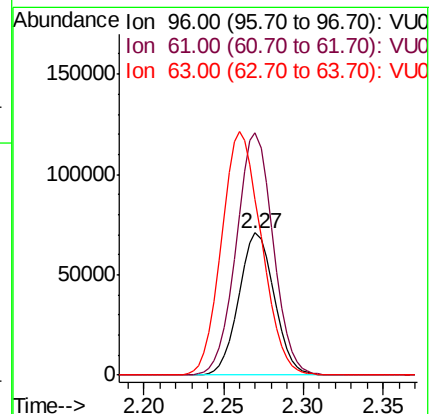
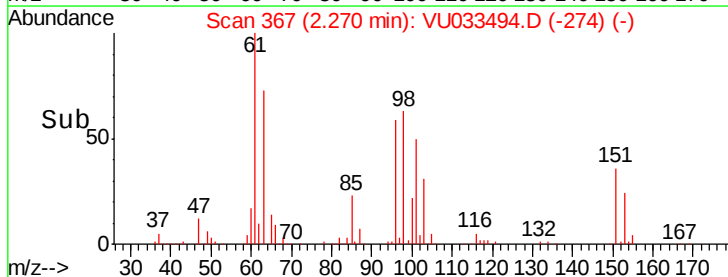
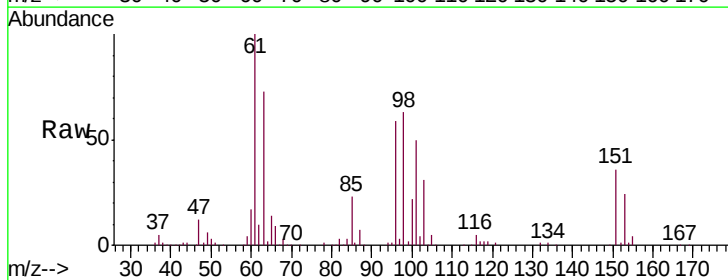
Tgt Ion: 96 Resp: 106531

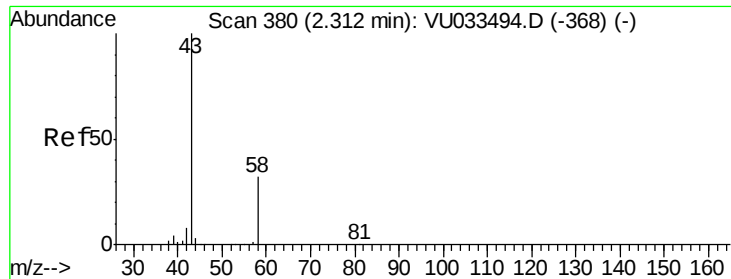
Ion Ratio Lower Upper

96 100

61 170.4 119.3 221.5

63 123.7 86.6 160.8





#13

Acetone

Concen: 87.046 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

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ClientSampleId :

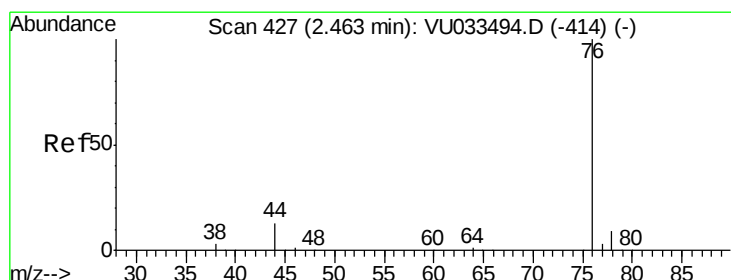
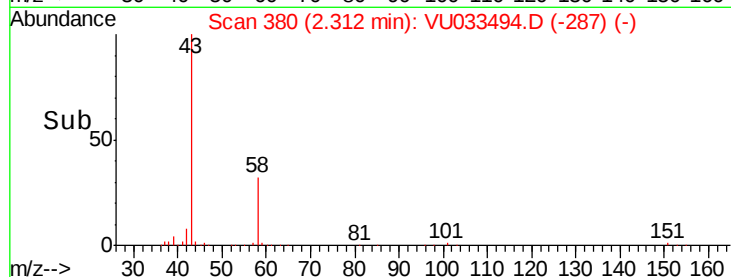
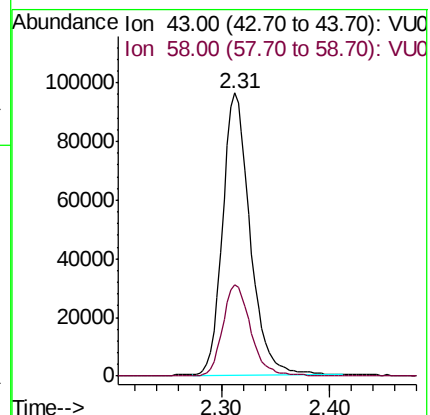
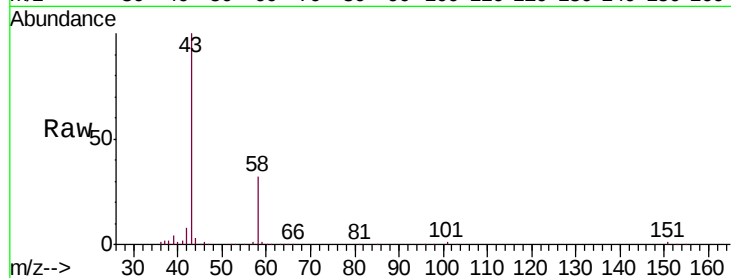
VSTD05036

Tgt Ion: 43 Resp: 170931

Ion Ratio Lower Upper

43 100

58 33.1 0.0 66.2



#14

Carbon disulfide

Concen: 48.777 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033494.D

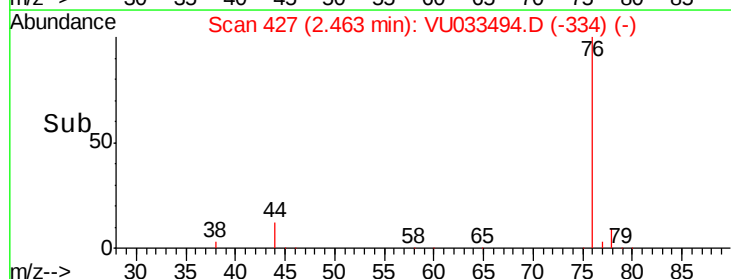
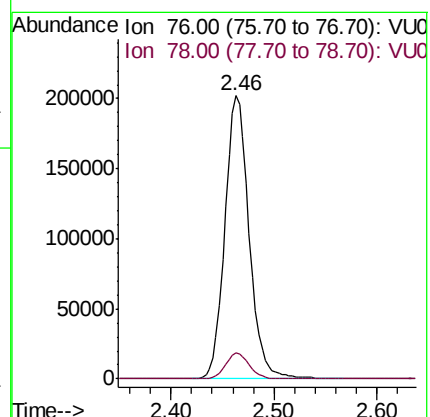
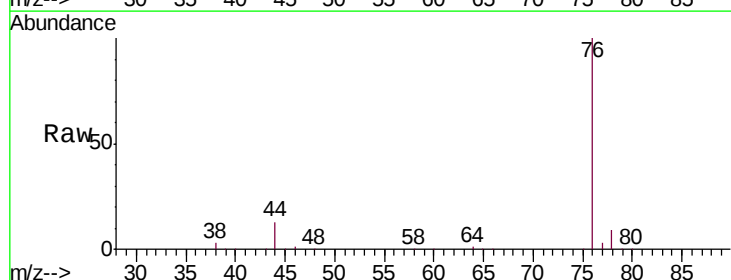
Acq: 30 Jul 2019 15:45

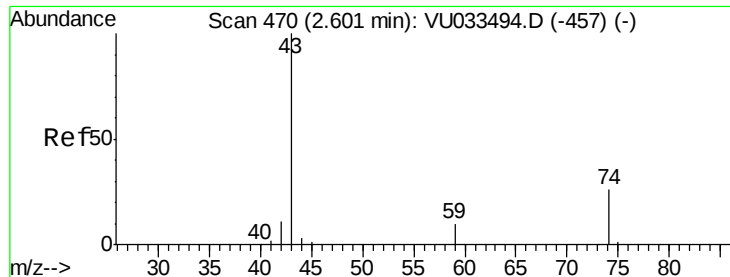
Tgt Ion: 76 Resp: 330197

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0





#15

Methyl Acetate

Concen: 50.491 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

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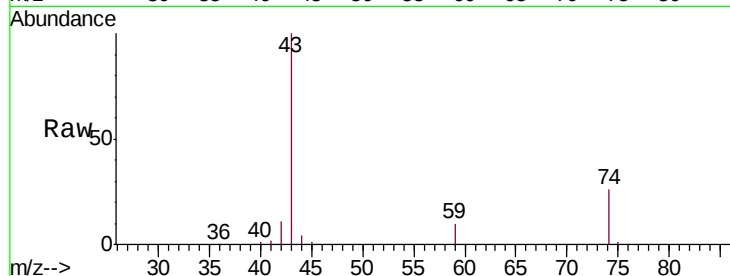
VSTD05036

Tgt Ion: 43 Resp: 132289

Ion Ratio Lower Upper

43 100

74 25.1 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU033494.D (-457) (-)

Ion 74.00 (73.70 to 74.70): VU033494.D (-457) (-)

2.60

80000

60000

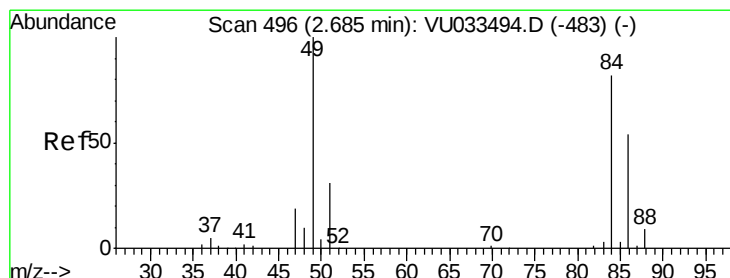
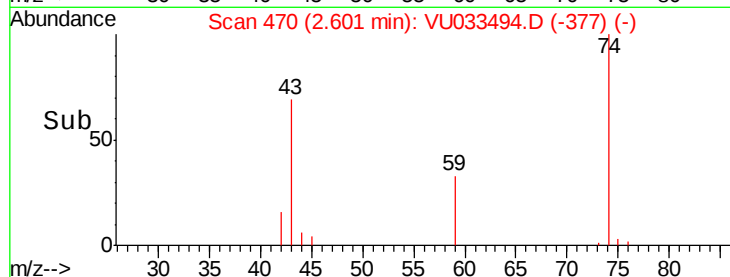
40000

20000

0

Time-->

2.50 2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 48.733 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

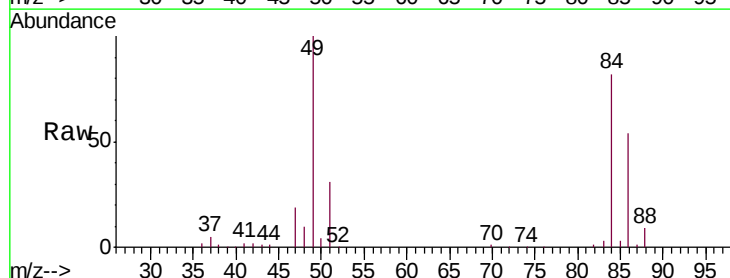
Tgt Ion: 84 Resp: 123216

Ion Ratio Lower Upper

84 100

86 65.3 45.7 84.9

49 121.5 85.0 158.0



Abundance Ion 84.00 (83.70 to 84.70): VU033494.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU033494.D (-483) (-)

Ion 49.00 (48.70 to 49.70): VU033494.D (-483) (-)

2.68

100000

80000

60000

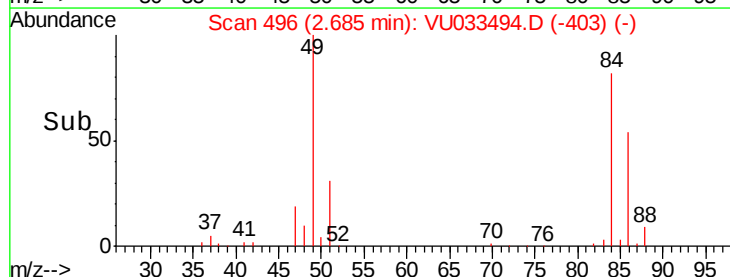
40000

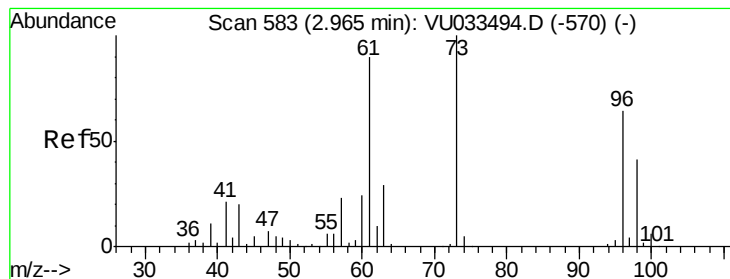
20000

0

Time-->

2.60 2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 49.067 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

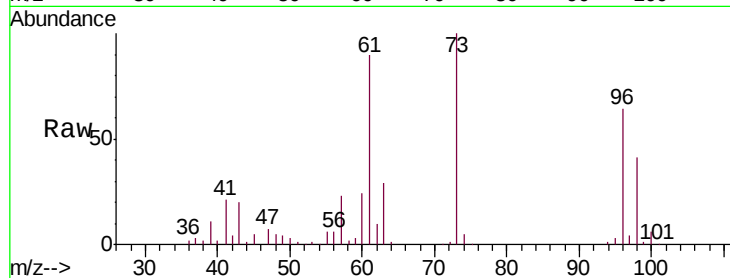
Tgt Ion: 96 Resp: 112378

Ion Ratio Lower Upper

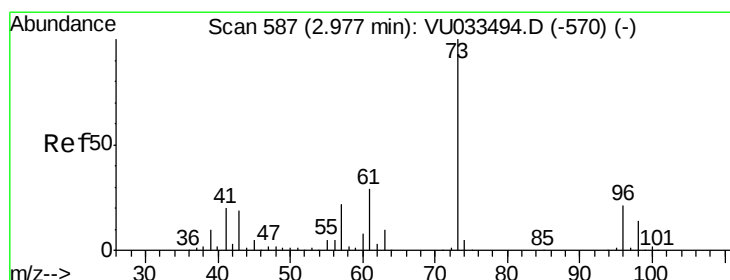
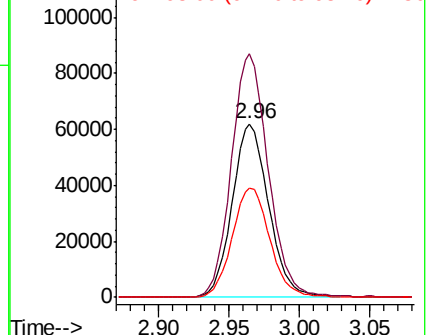
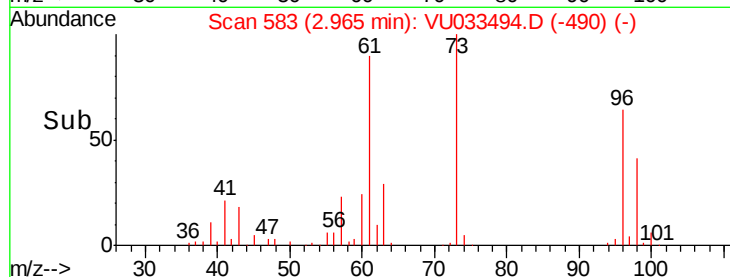
96 100

61 140.4 98.3 182.5

98 63.3 44.3 82.3



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



#18

Methyl tert-butyl Ether

Concen: 49.763 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

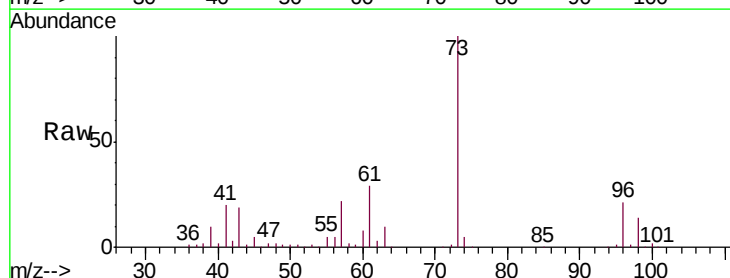
Tgt Ion: 73 Resp: 351839

Ion Ratio Lower Upper

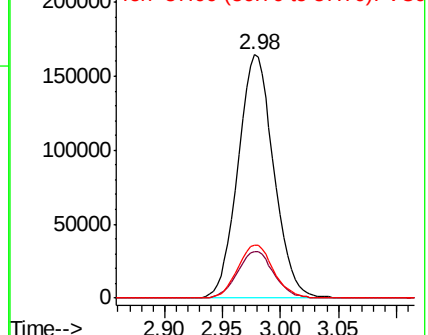
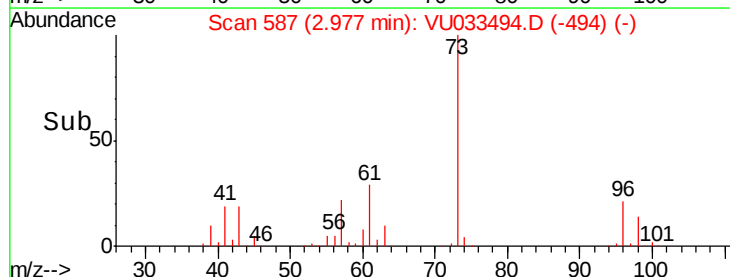
73 100

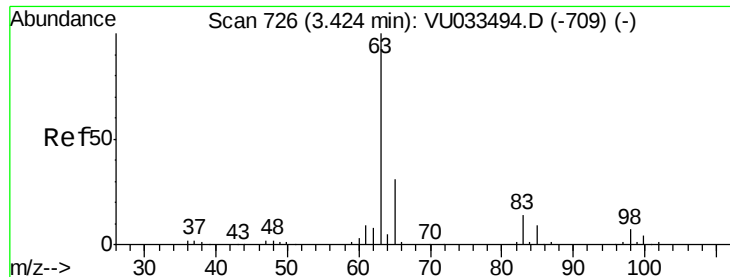
43 19.3 15.4 23.2

57 21.8 17.4 26.2



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

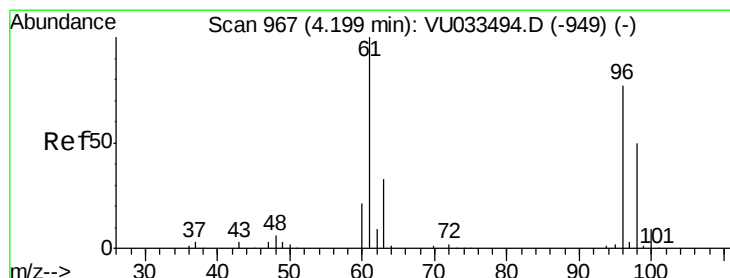
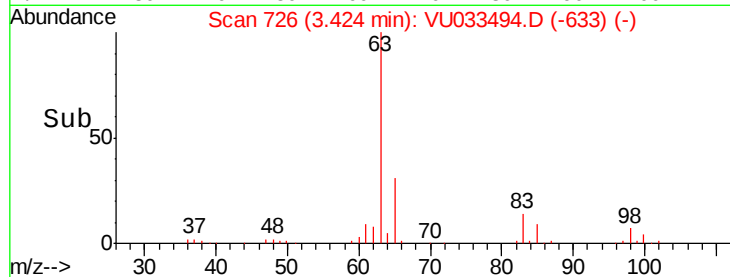
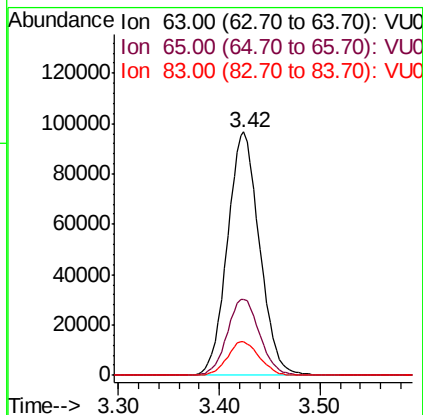
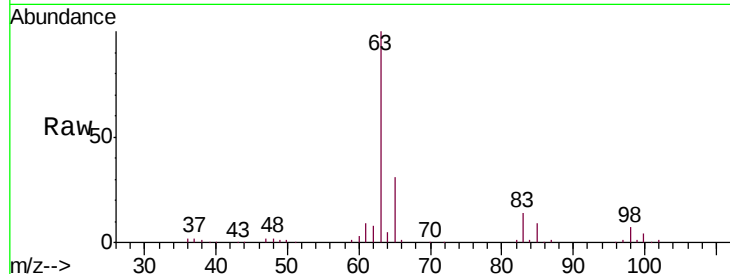




#19
 1,1-Dichloroethane
 Concen: 48.655 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

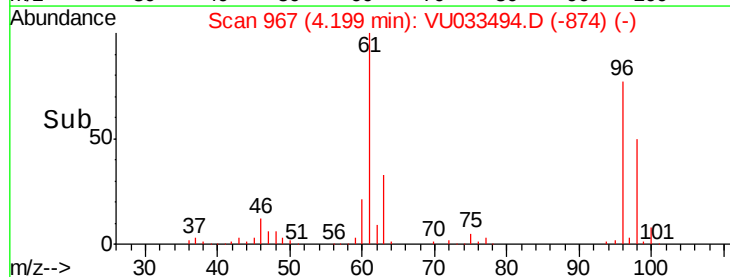
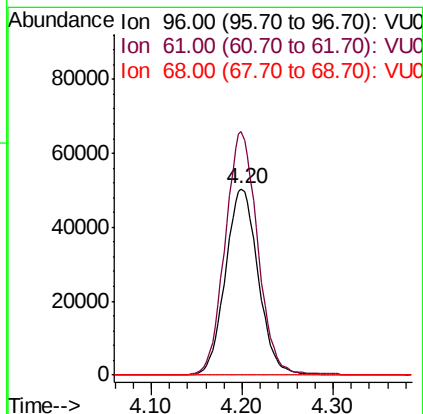
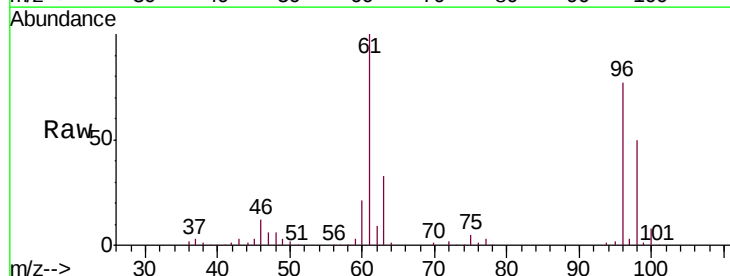
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

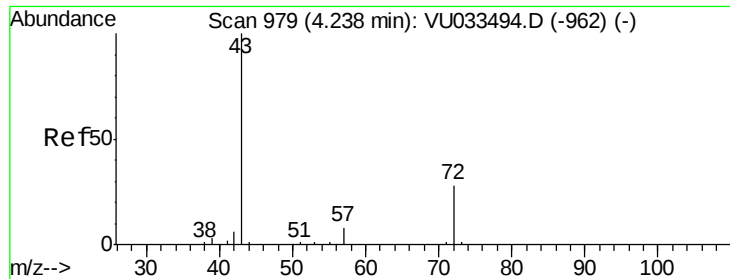
Tgt Ion: 63 Resp: 213814
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.0 40.8
 83 13.6 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 48.943 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Tgt Ion: 96 Resp: 126188
 Ion Ratio Lower Upper
 96 100
 61 130.5 91.3 169.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 96.276 ug/L

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

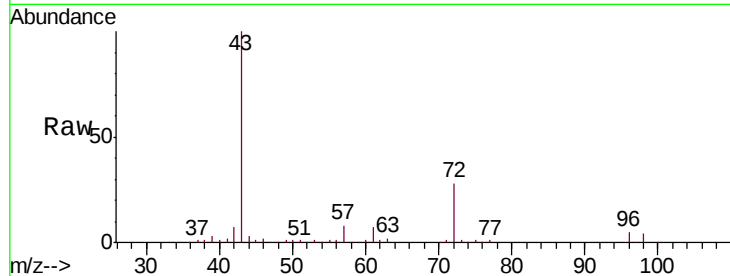
VSTD05036

Tgt Ion: 43 Resp: 212128

Ion Ratio Lower Upper

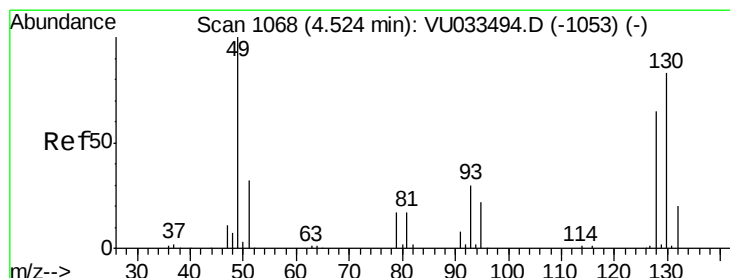
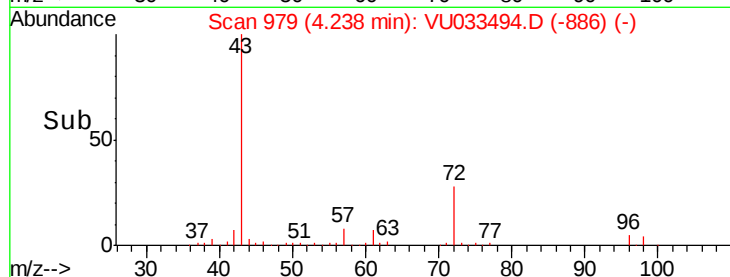
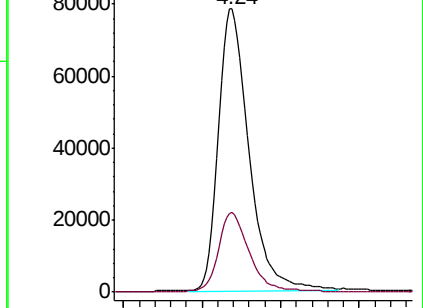
43 100

72 28.4 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033494.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033494.D (-962) (-)



#23

Bromochloromethane

Concen: 50.557 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Tgt Ion: 128 Resp: 67314

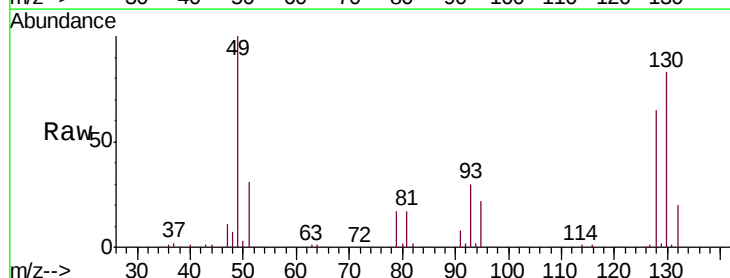
Ion Ratio Lower Upper

128 100

49 154.8 108.4 201.2

130 128.1 89.7 166.5

51 48.6 38.9 58.3

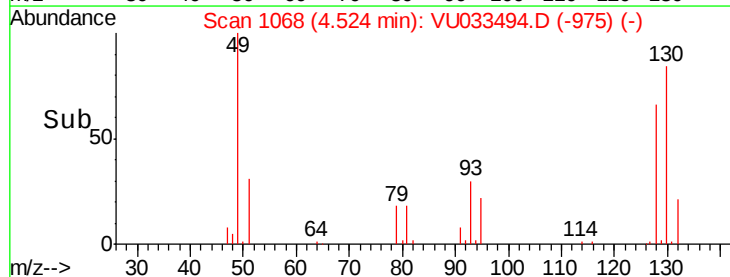
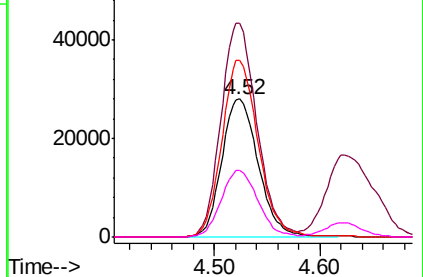


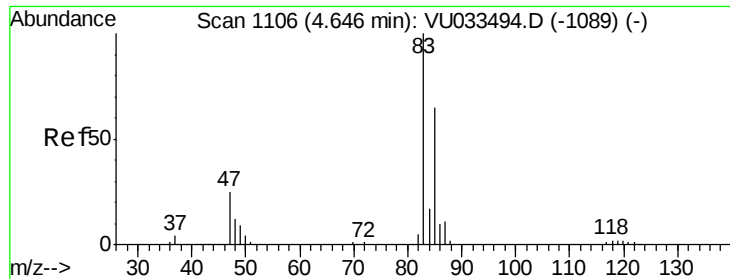
Abundance Ion 128.00 (127.70 to 128.70): VU033494.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033494.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033494.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033494.D (-1053) (-)

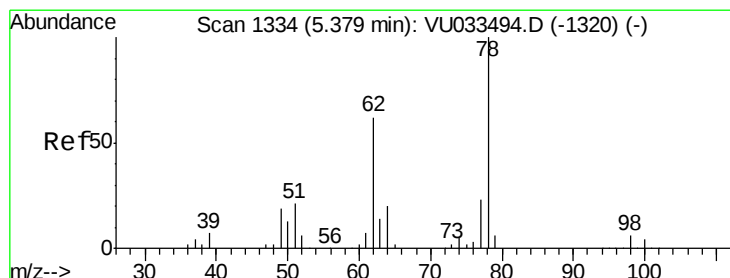
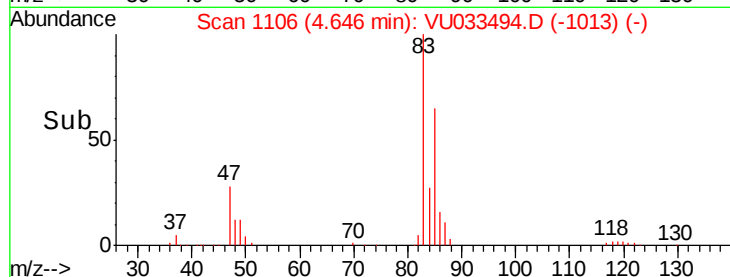
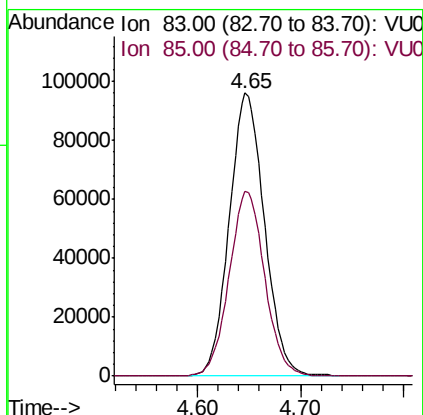
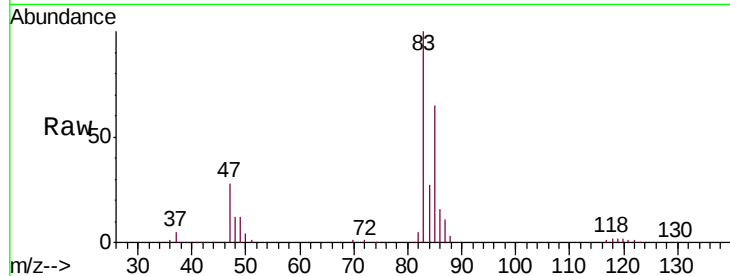




#25
Chloroform
Concen: 48.680 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033494.D
Acq: 30 Jul 2019 15:45

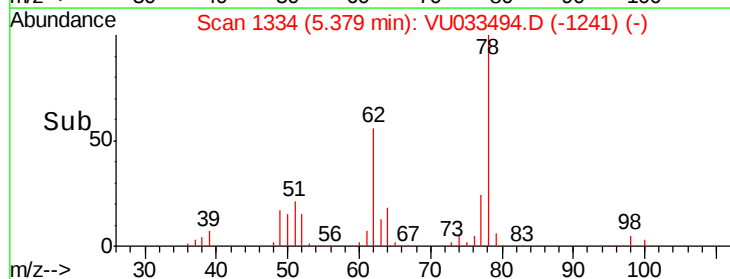
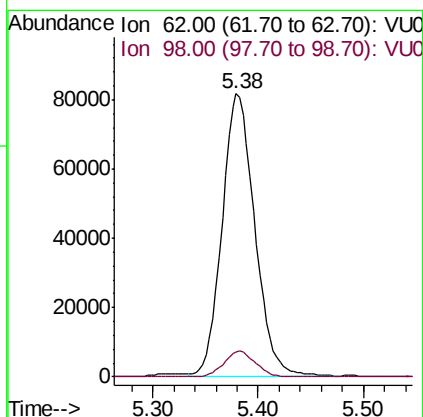
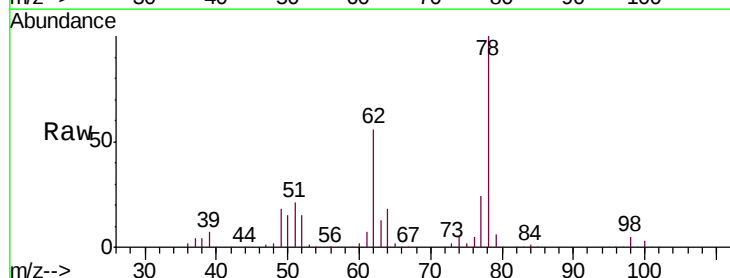
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

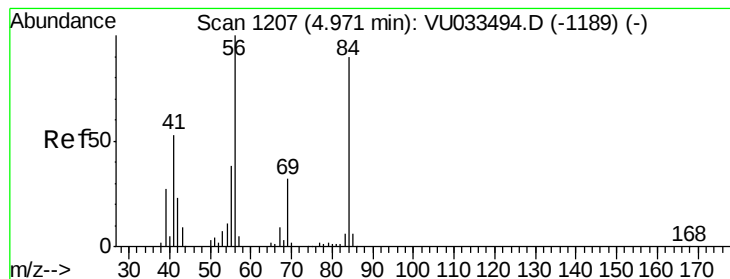
Tgt Ion: 83 Resp: 228143
Ion Ratio Lower Upper
83 100
85 65.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 48.530 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033494.D
Acq: 30 Jul 2019 15:45

Tgt Ion: 62 Resp: 174860
Ion Ratio Lower Upper
62 100
98 9.0 7.2 10.8





#29

Cyclohexane

Concen: 50.300 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

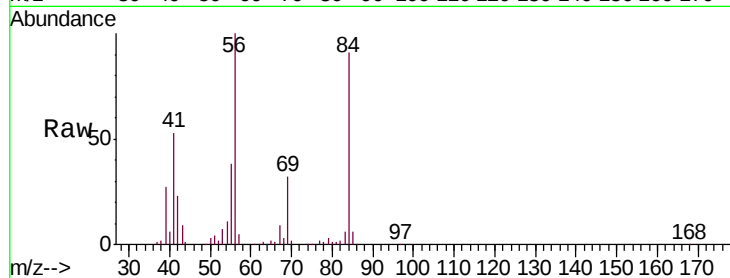
Tgt Ion: 56 Resp: 183529

Ion Ratio Lower Upper

56 100

69 31.3 25.0 37.6

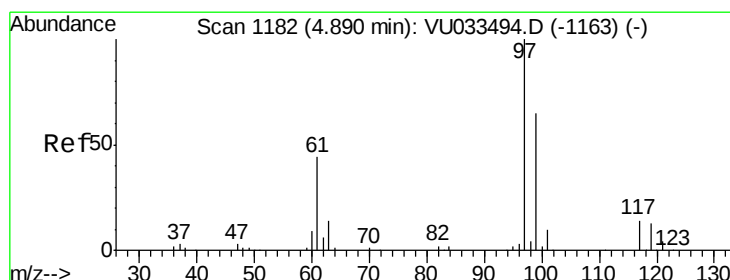
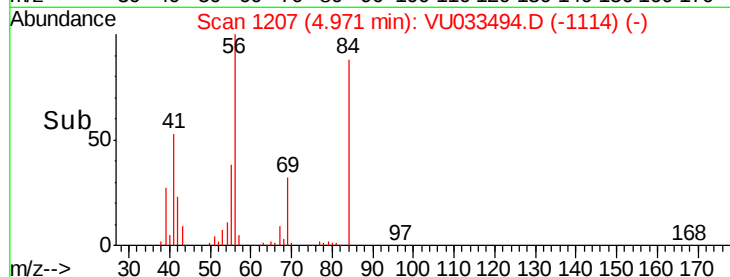
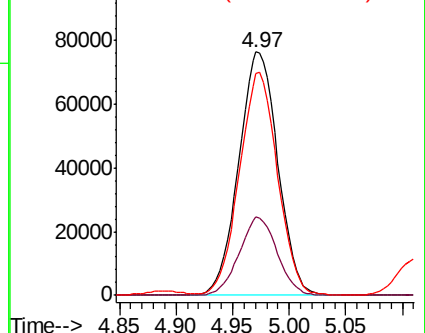
84 89.5 71.6 107.4



Abundance Ion 56.00 (55.70 to 56.70): VU033494.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033494.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033494.D (-1189) (-)



#30

1,1,1-Trichloroethane

Concen: 48.740 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

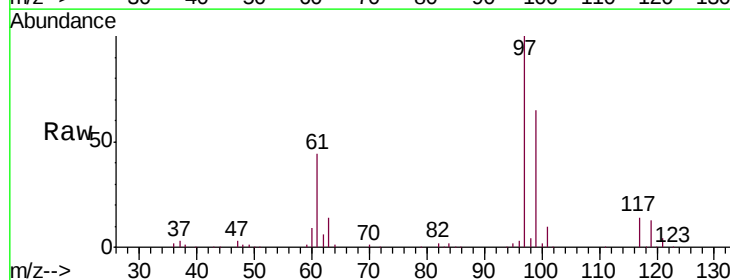
Tgt Ion: 97 Resp: 190653

Ion Ratio Lower Upper

97 100

99 63.9 51.1 76.7

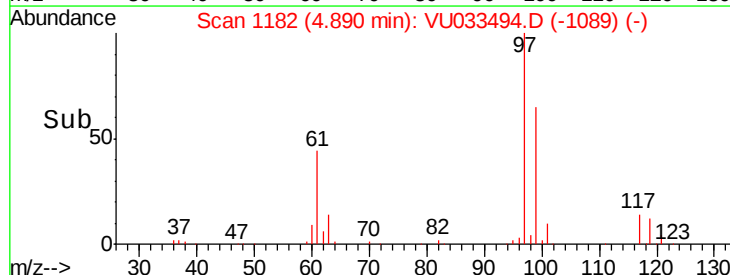
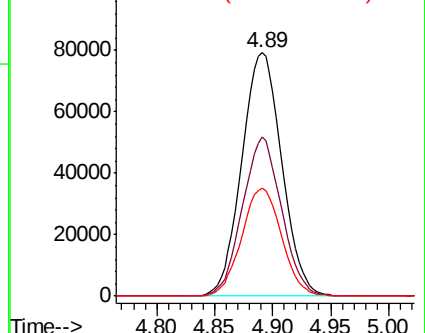
61 44.4 35.5 53.3

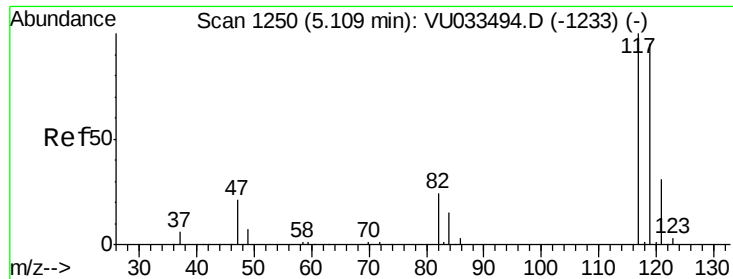


Abundance Ion 97.00 (96.70 to 97.70): VU033494.D (-1163) (-)

Ion 99.00 (98.70 to 99.70): VU033494.D (-1163) (-)

Ion 61.05 (60.75 to 61.75): VU033494.D (-1163) (-)





#31

Carbon tetrachloride

Concen: 48.948 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

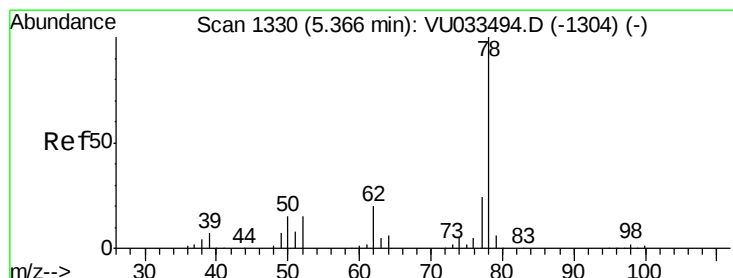
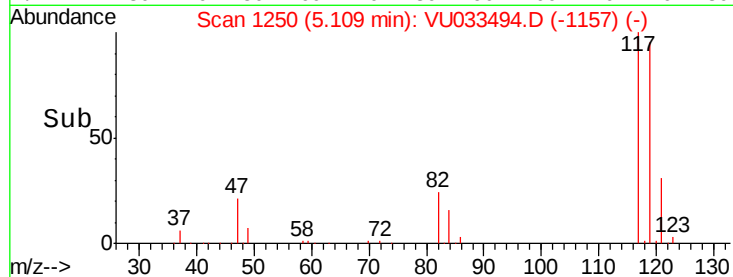
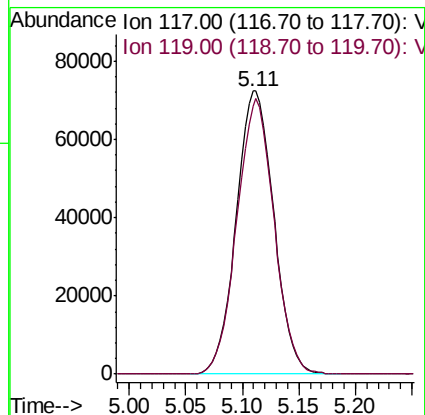
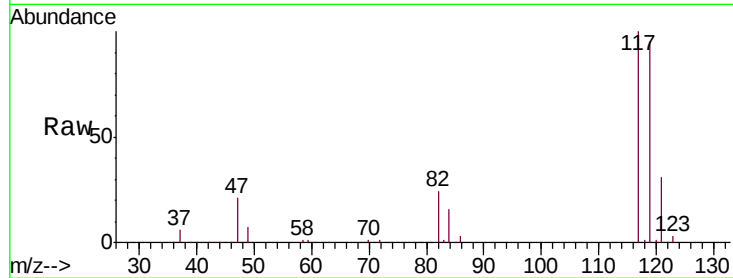
VSTD05036

Tgt Ion:117 Resp: 167303

Ion Ratio Lower Upper

117 100

119 96.2 77.0 115.4



#33

Benzene

Concen: 49.922 ug/L

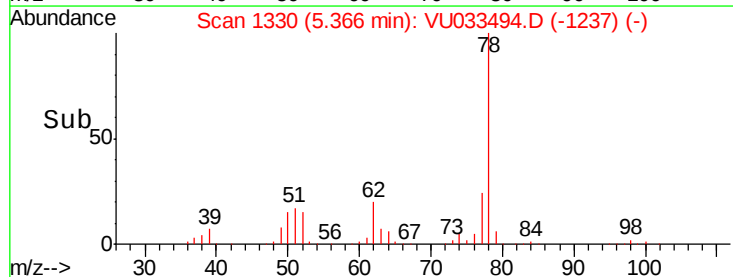
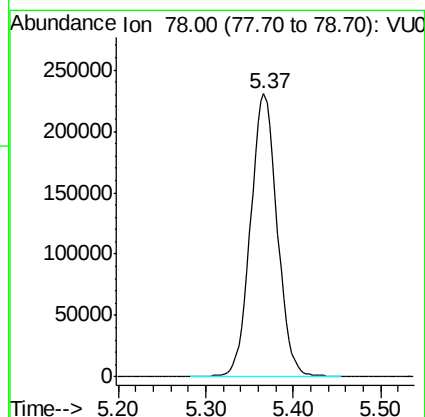
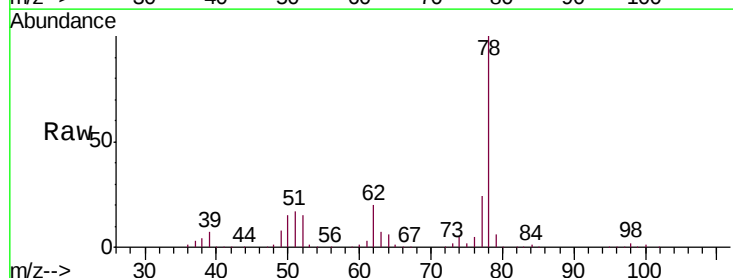
RT: 5.37 min Scan# 1330

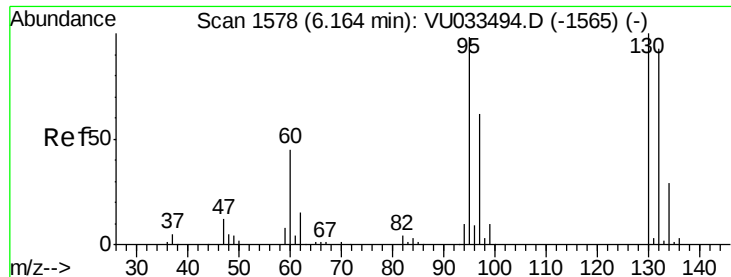
Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Tgt Ion: 78 Resp: 487915

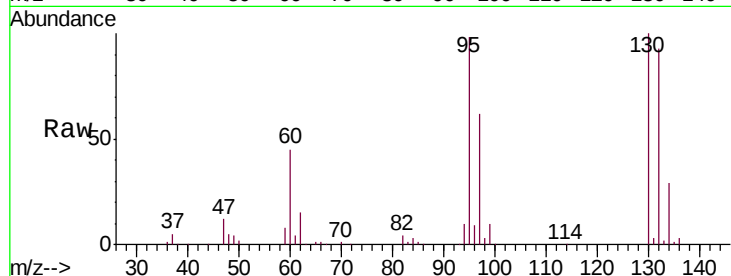




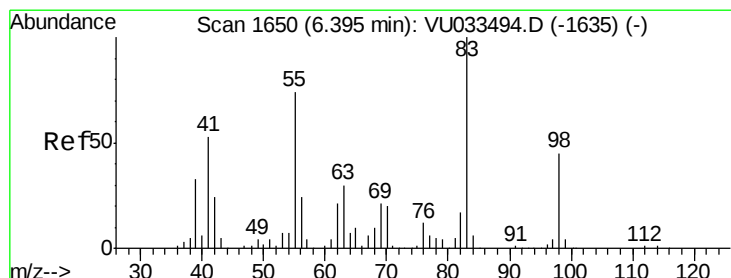
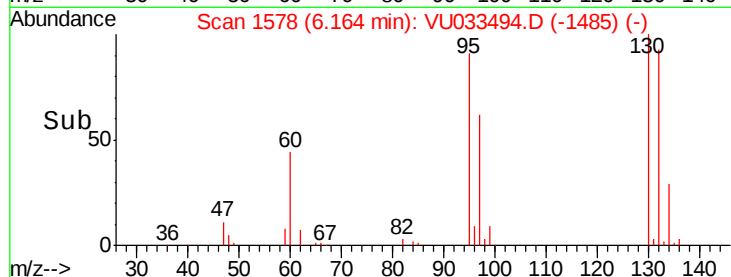
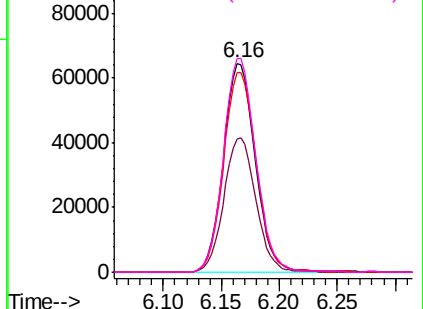
#34
 Trichloroethene
 Concen: 48.410 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion: 95 Resp: 123546
 Ion Ratio Lower Upper
 95 100
 97 63.9 44.7 83.1
 132 95.4 66.8 124.0
 130 102.3 71.6 133.0

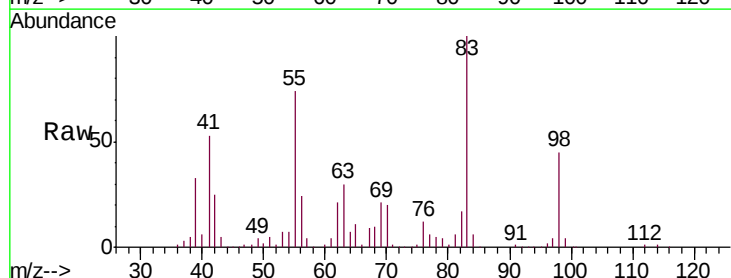


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

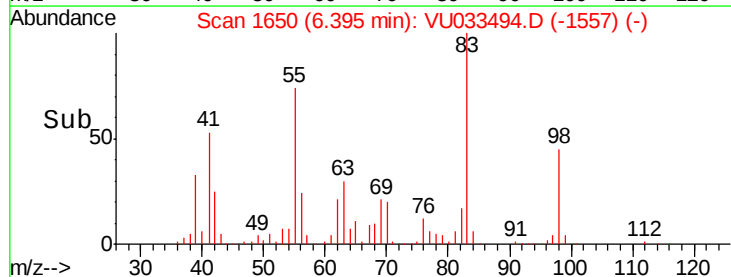
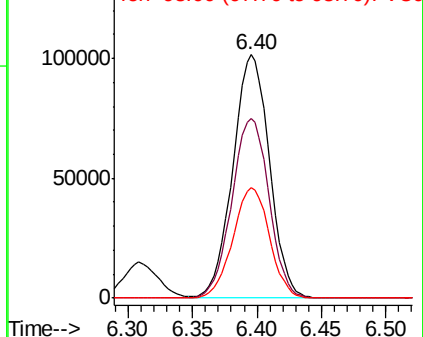


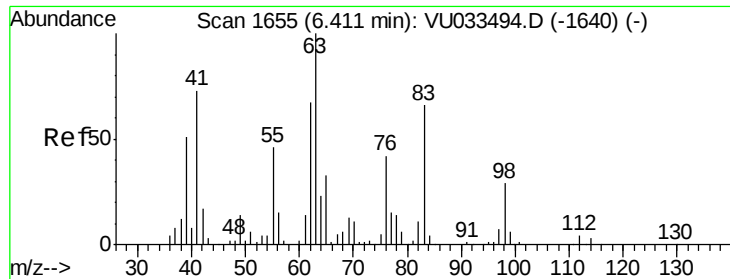
#35
 Methylcyclohexane
 Concen: 50.805 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Tgt Ion: 83 Resp: 199661
 Ion Ratio Lower Upper
 83 100
 55 75.3 60.2 90.4
 98 45.6 36.5 54.7



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

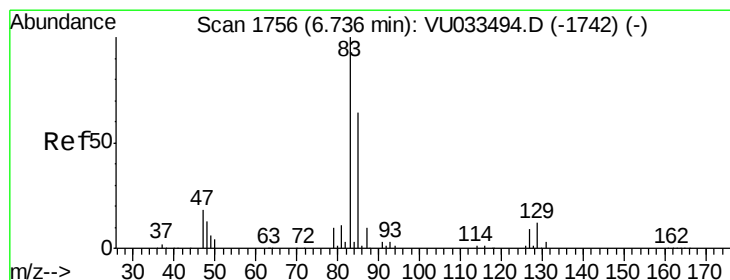
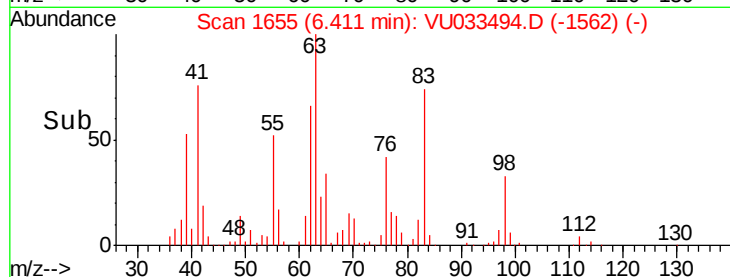
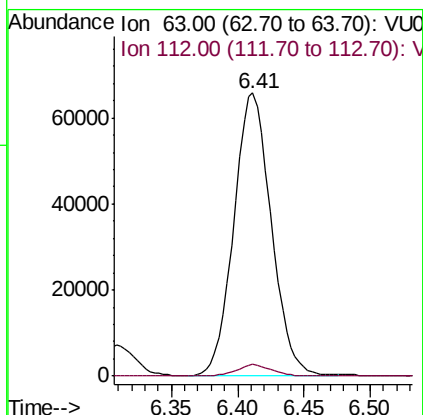
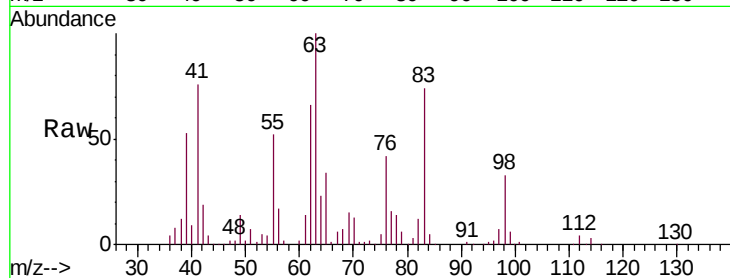




#37
 1,2-Dichloropropane
 Concen: 48.679 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

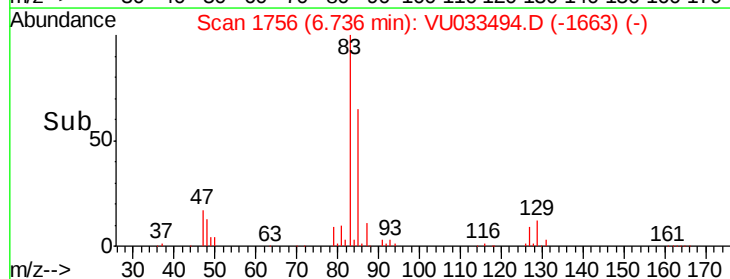
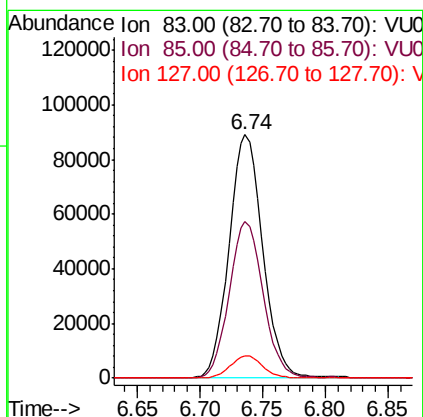
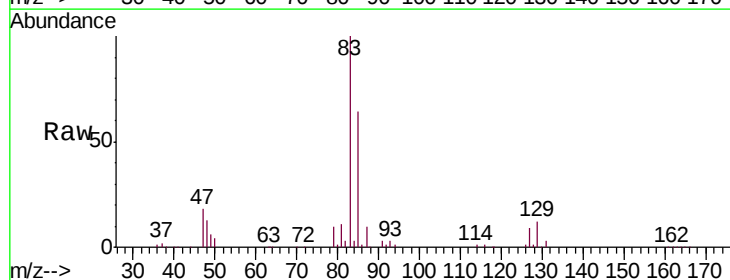
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

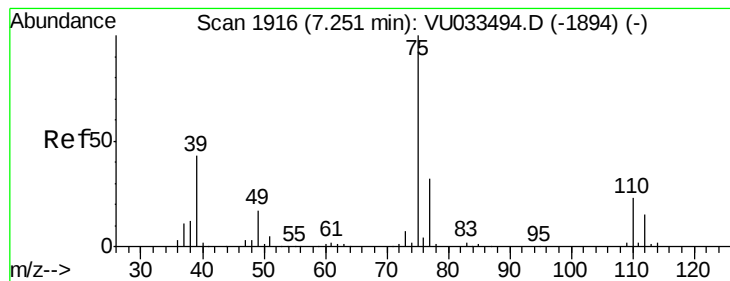
Tgt Ion: 63 Resp: 128558
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 48.925 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Tgt Ion: 83 Resp: 166504
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.1 83.9
 127 9.0 7.2 10.8



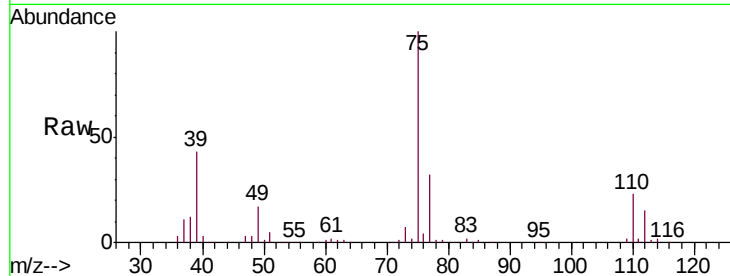


#39

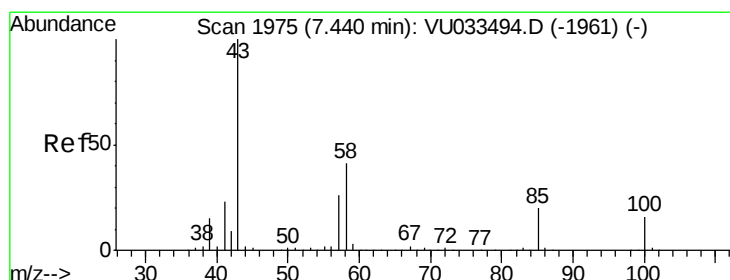
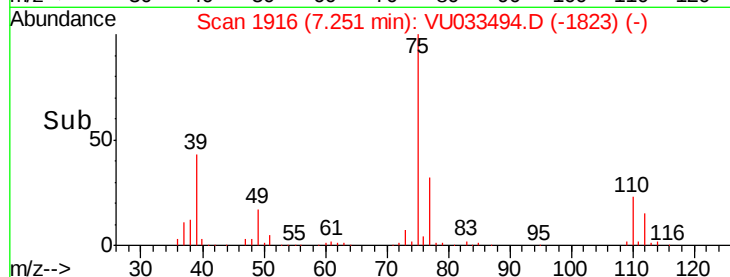
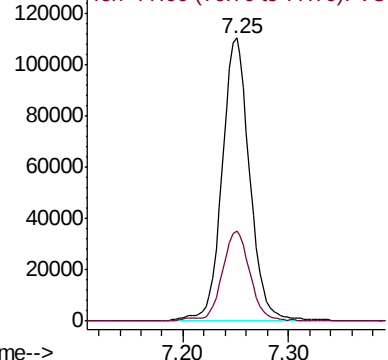
cis-1,3-Dichloropropene
 Concen: 49.427 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion: 75 Resp: 202363
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



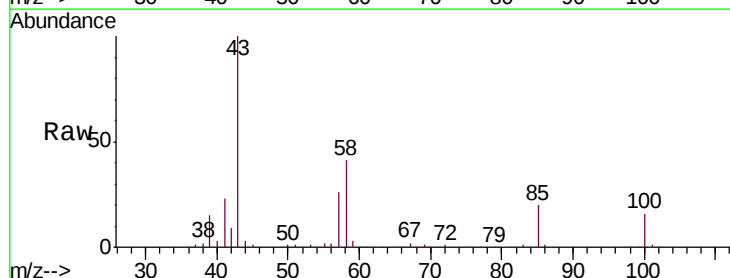
Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0



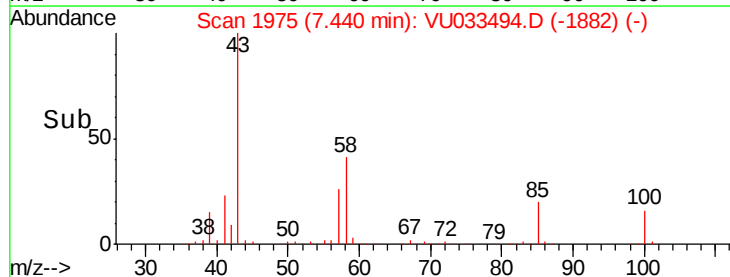
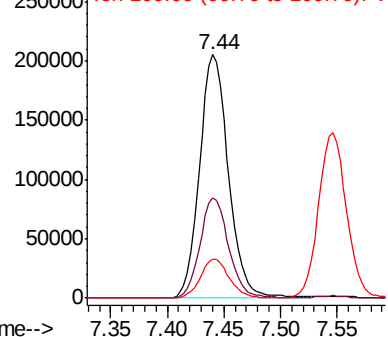
#40

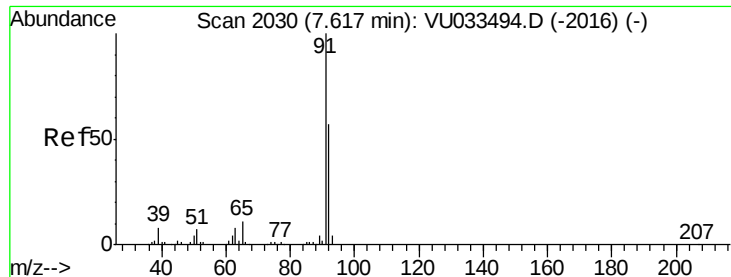
4-Methyl-2-pentanone
 Concen: 101.801 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Tgt Ion: 43 Resp: 364510
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.8 49.2
 100 16.1 12.9 19.3



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 50.322 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

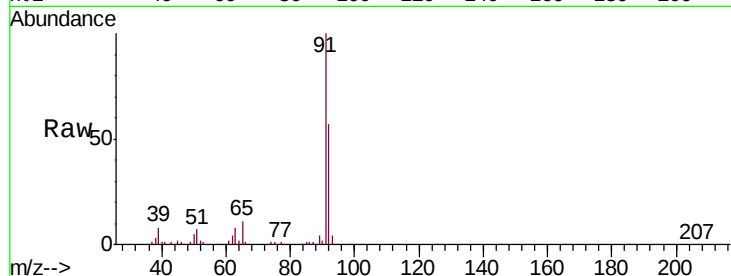
VSTD05036

Tgt Ion: 91 Resp: 529707

Ion Ratio Lower Upper

91 100

92 57.4 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033494.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033494.D (-2016) (-)

7.62

300000

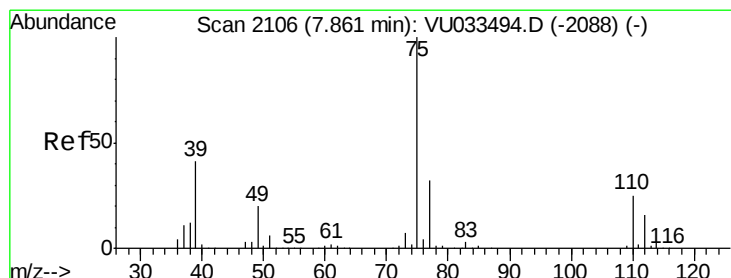
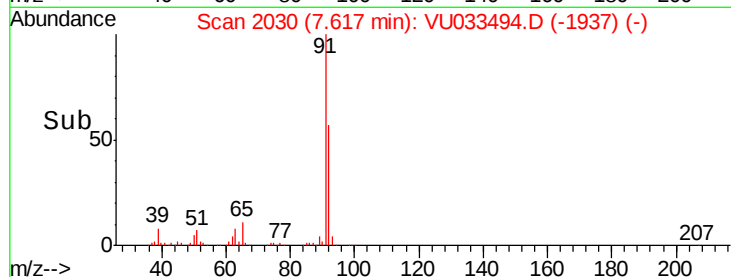
200000

100000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.346 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033494.D

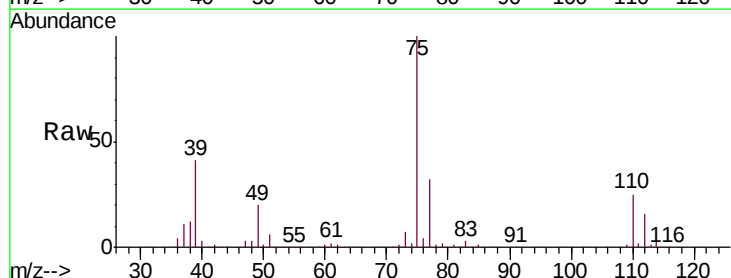
Acq: 30 Jul 2019 15:45

Tgt Ion: 75 Resp: 184027

Ion Ratio Lower Upper

75 100

77 32.4 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033494.D (-2088) (-)

7.86

120000

100000

80000

60000

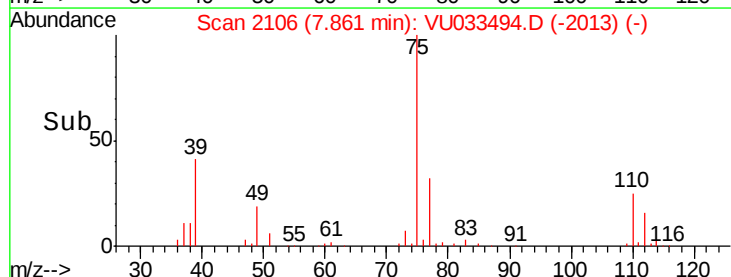
40000

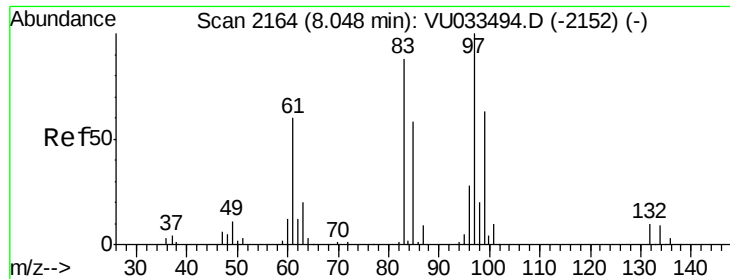
20000

0

7.75 7.80 7.85 7.90 7.95

Time-->





#45

1,1,2-Trichloroethane

Concen: 48.972 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

Tgt Ion: 97 Resp: 122457

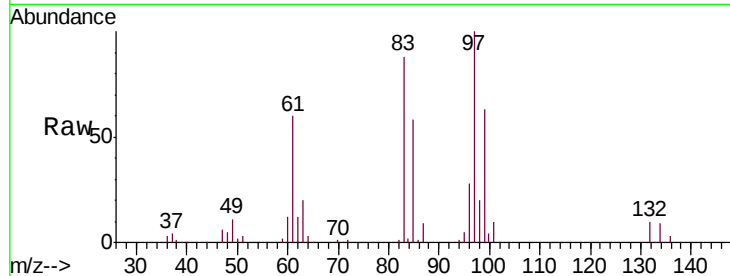
Ion Ratio Lower Upper

97 100

99 63.4 44.4 82.4

83 87.8 61.5 114.1

85 57.7 40.4 75.0

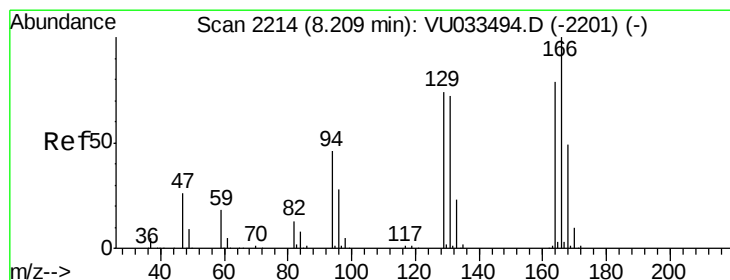
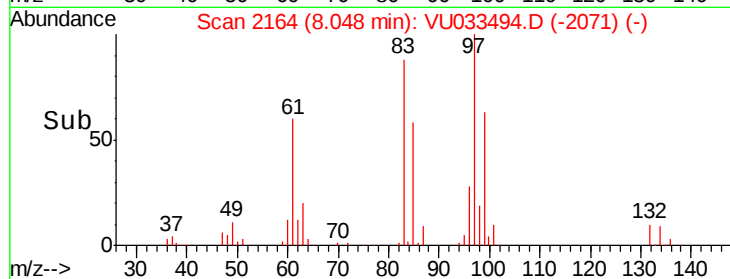
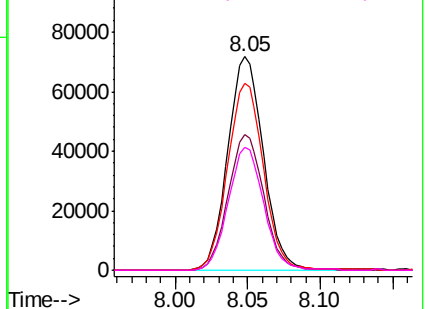


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 51.574 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Tgt Ion:164 Resp: 103318

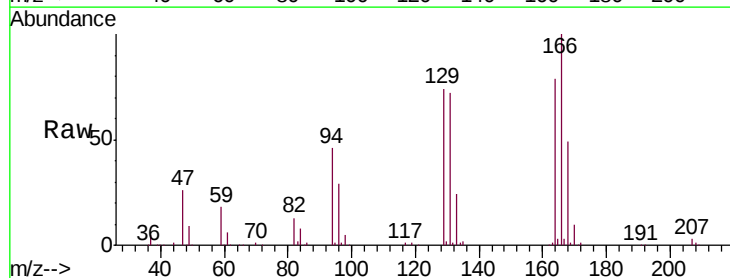
Ion Ratio Lower Upper

164 100

129 93.6 65.5 121.7

131 90.5 63.3 117.7

166 126.0 88.2 163.8

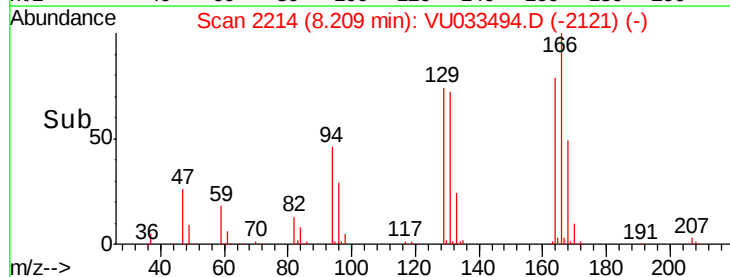
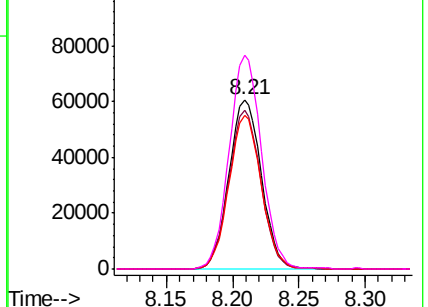


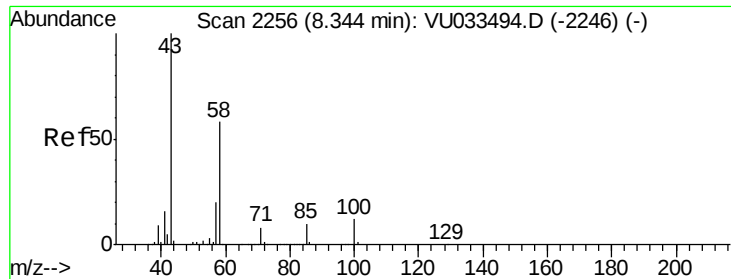
Abundance Ion 164.00 (163.70 to 164.70): V

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

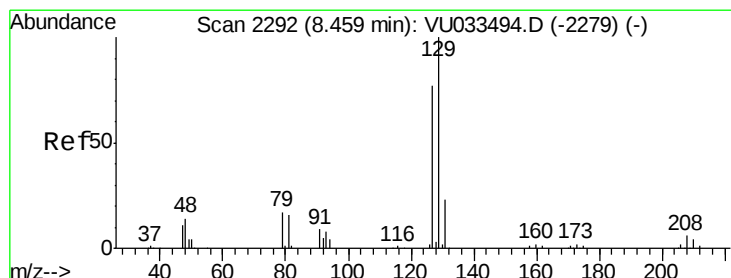
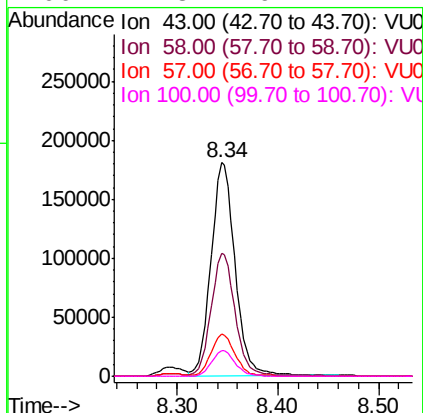
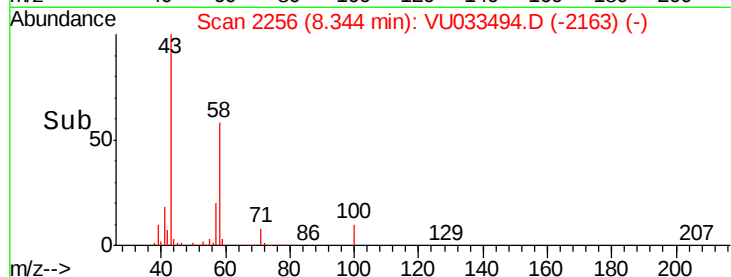
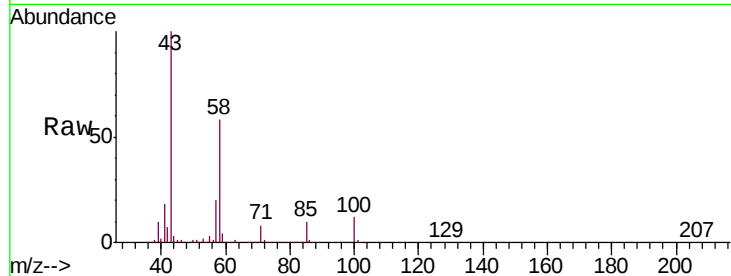




#48
2-Hexanone
Concen: 102.925 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033494.D
Acq: 30 Jul 2019 15:45

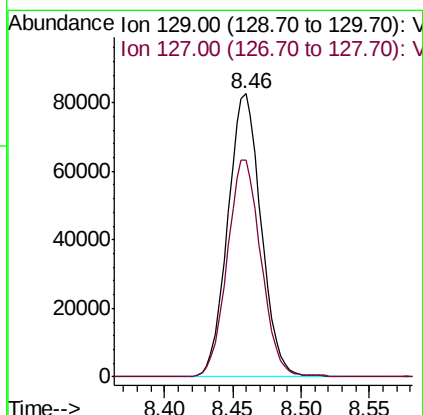
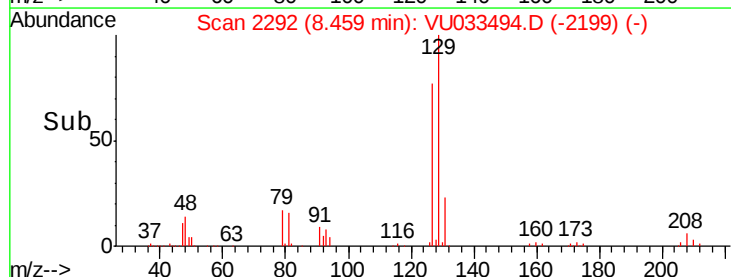
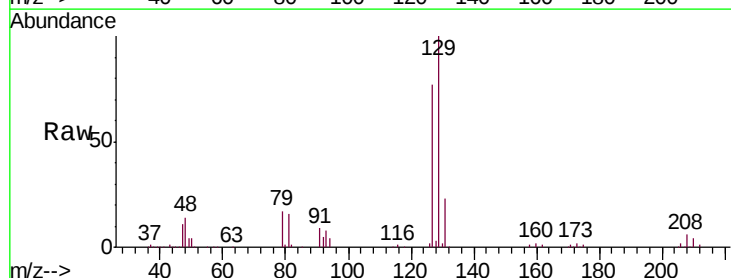
Instrument :
MSVOA_U
ClientSampled :
VSTD05036

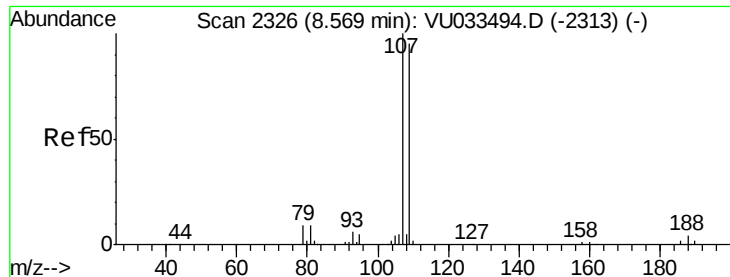
Tgt Ion: 43 Resp: 300072
Ion Ratio Lower Upper
43 100
58 57.2 45.8 68.6
57 19.7 15.8 23.6
100 11.8 9.4 14.2



#49
Dibromochloromethane
Concen: 50.019 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033494.D
Acq: 30 Jul 2019 15:45

Tgt Ion: 129 Resp: 140380
Ion Ratio Lower Upper
129 100
127 76.8 53.8 99.8

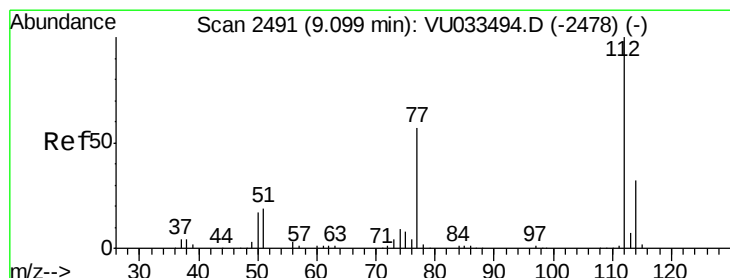
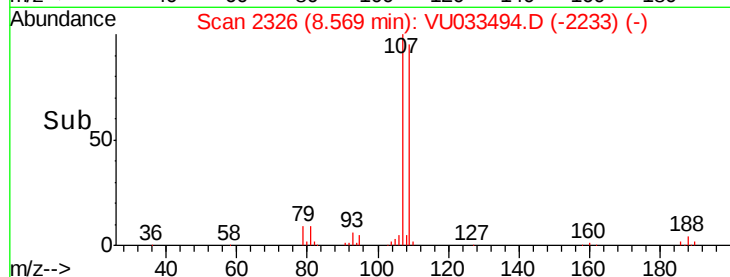
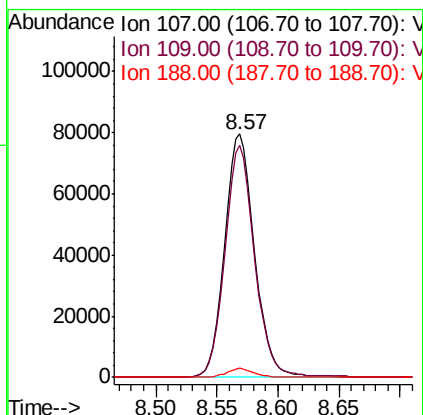
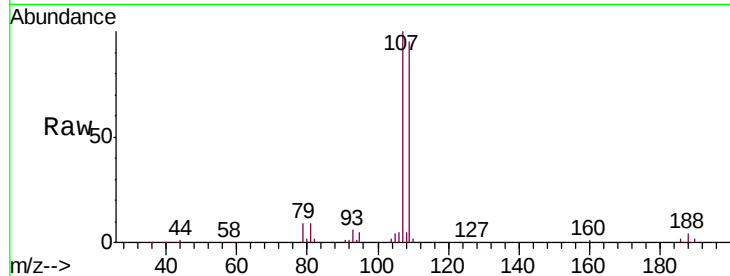




#50
1,2-Dibromoethane
Concen: 49.929 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033494.D
Acq: 30 Jul 2019 15:45

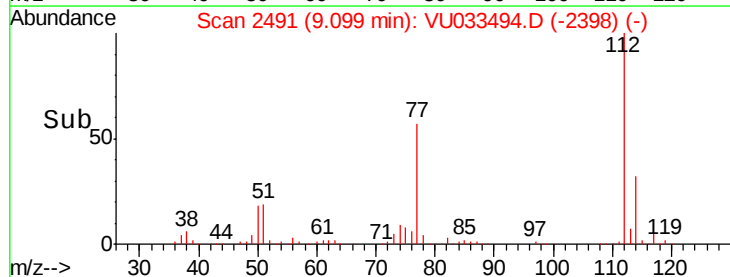
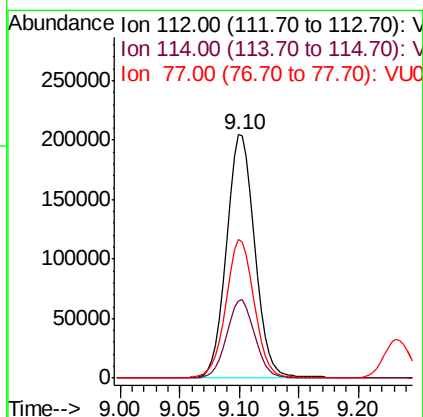
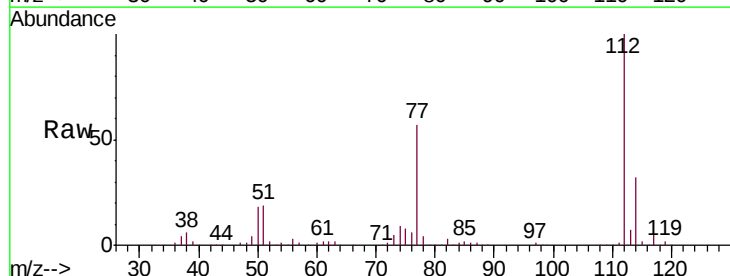
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

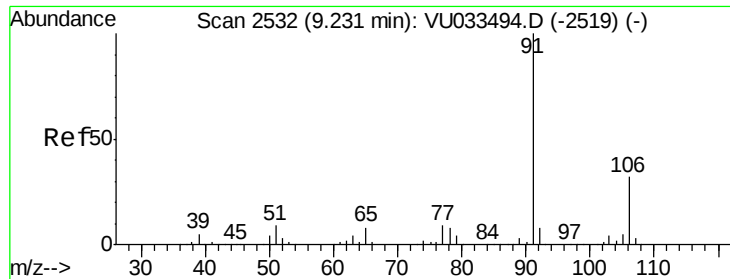
Tgt Ion:107 Resp: 136534
Ion Ratio Lower Upper
107 100
109 95.4 66.8 124.0
188 3.7 3.0 4.4



#51
Chlorobenzene
Concen: 49.201 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033494.D
Acq: 30 Jul 2019 15:45

Tgt Ion:112 Resp: 338067
Ion Ratio Lower Upper
112 100
114 31.9 22.3 41.5
77 57.0 45.6 68.4





#52

Ethylbenzene

Concen: 50.604 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

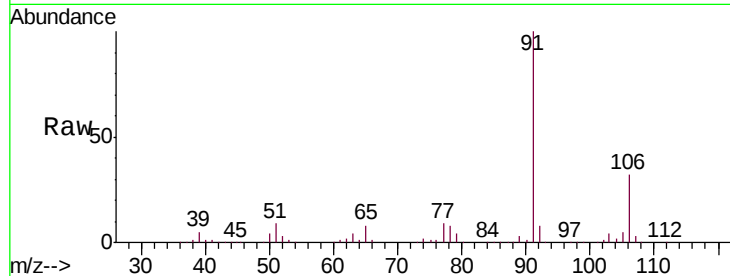
VSTD05036

Tgt Ion: 91 Resp: 569350

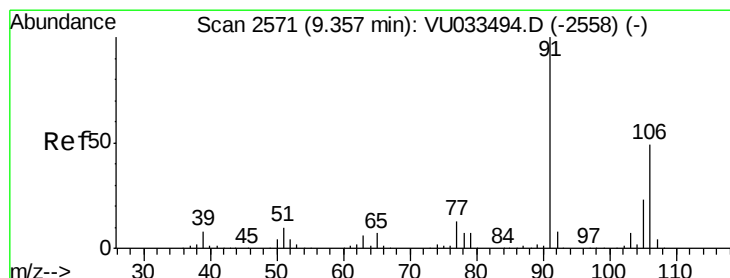
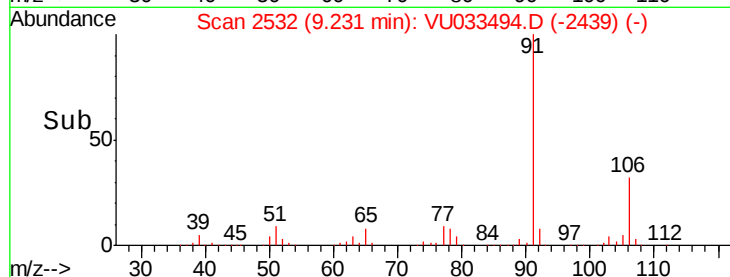
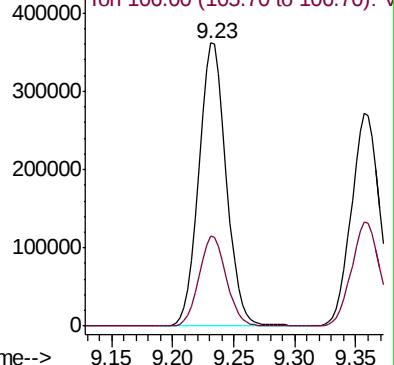
Ion Ratio Lower Upper

91 100

106 31.7 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU033494.D (-2519) (-)



#53

m,p-Xylene

Concen: 50.830 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033494.D

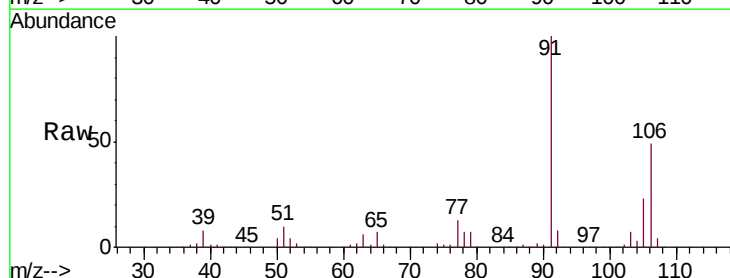
Acq: 30 Jul 2019 15:45

Tgt Ion: 106 Resp: 216597

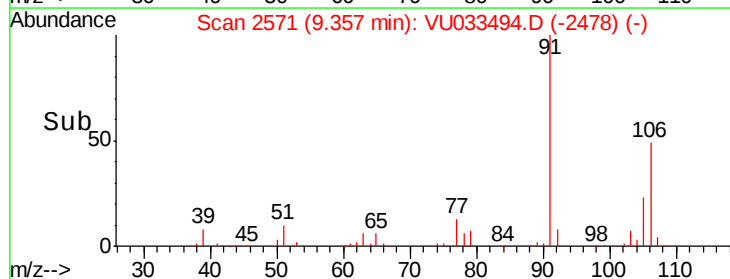
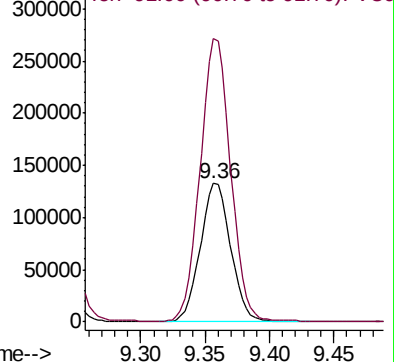
Ion Ratio Lower Upper

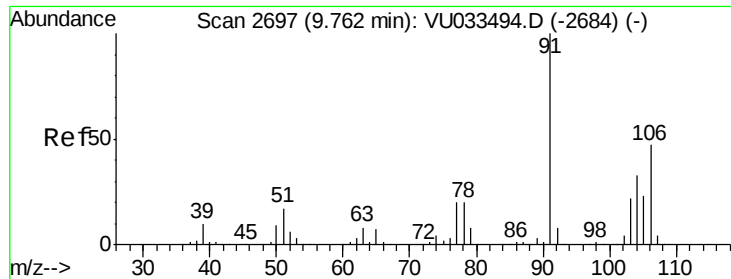
106 100

91 204.3 143.0 265.6



Abundance Ion 106.00 (105.70 to 106.70): VU033494.D (-2558) (-)





#54

o-xylene

Concen: 51.257 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

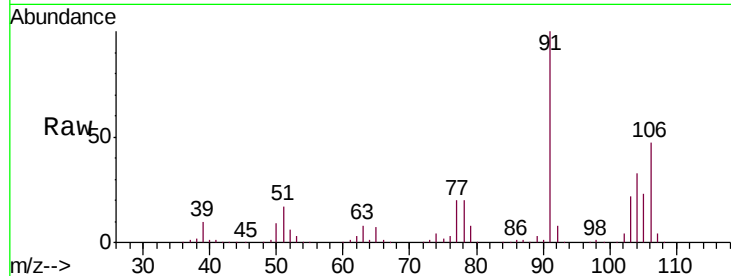
VSTD05036

Tgt Ion:106 Resp: 217251

Ion Ratio Lower Upper

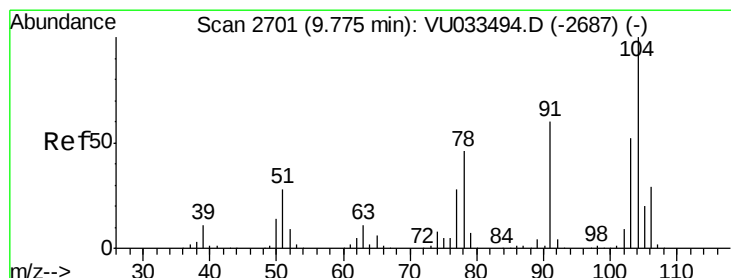
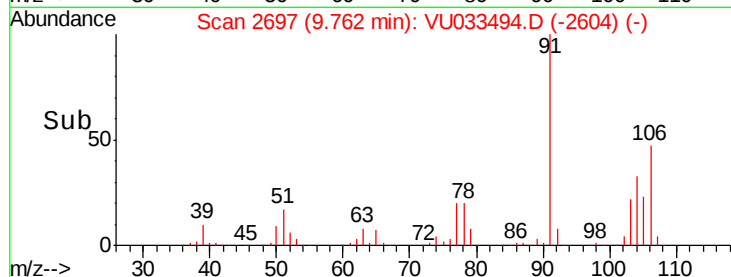
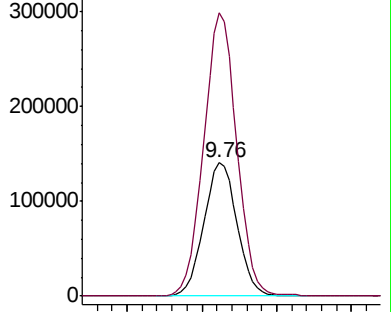
106 100

91 212.0 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.879 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033494.D

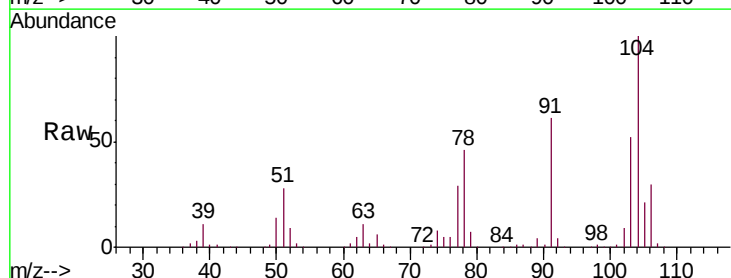
Acq: 30 Jul 2019 15:45

Tgt Ion:104 Resp: 372384

Ion Ratio Lower Upper

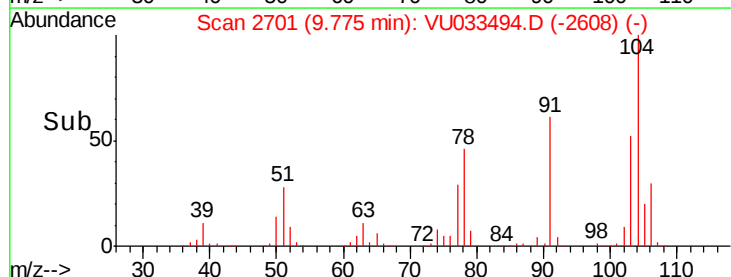
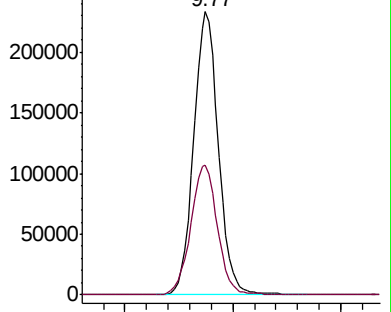
104 100

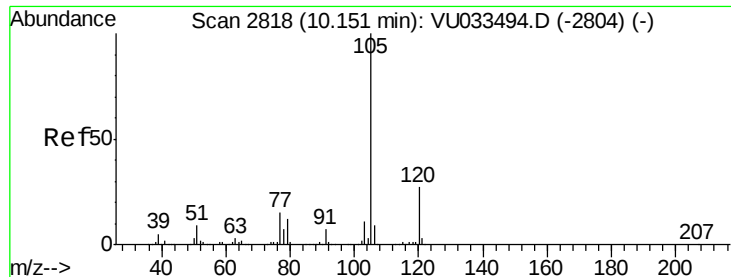
78 46.0 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.233 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

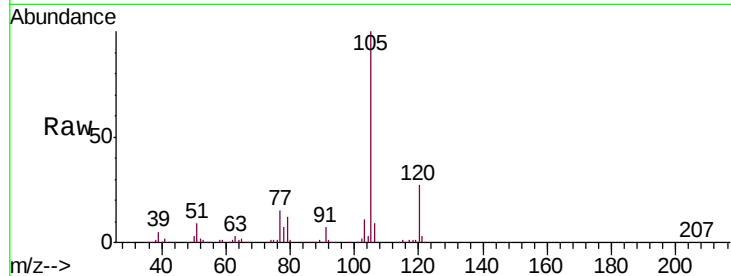
Tgt Ion: 105 Resp: 558786

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

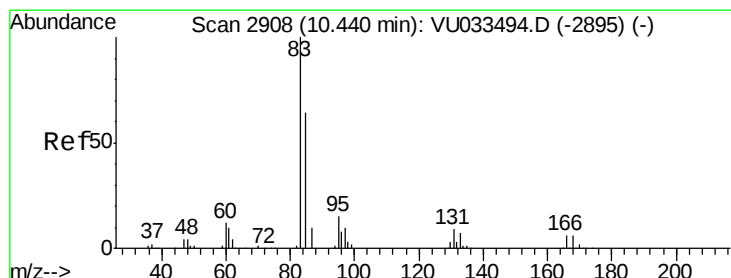
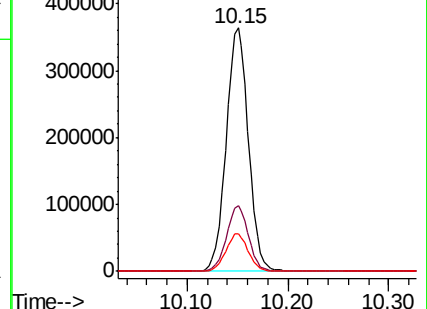
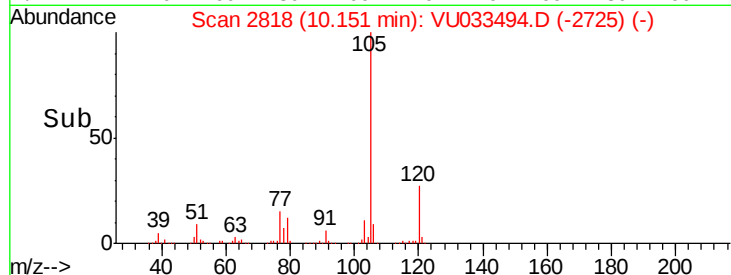
77 15.6 12.5 18.7



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: 49.979 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

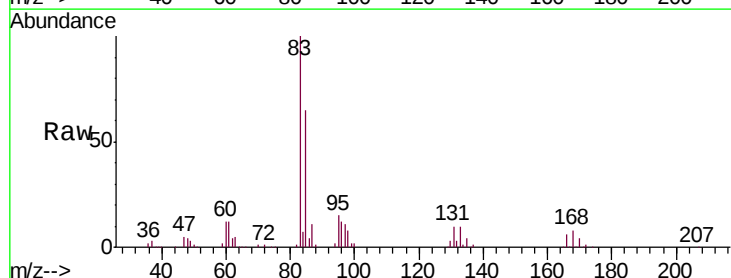
Tgt Ion: 83 Resp: 220507

Ion Ratio Lower Upper

83 100

85 64.9 45.4 84.4

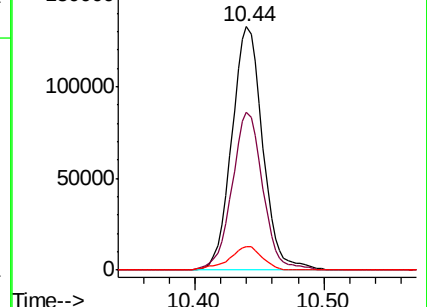
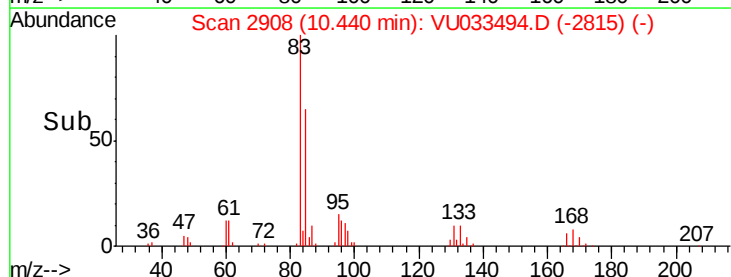
131 9.9 7.9 11.9

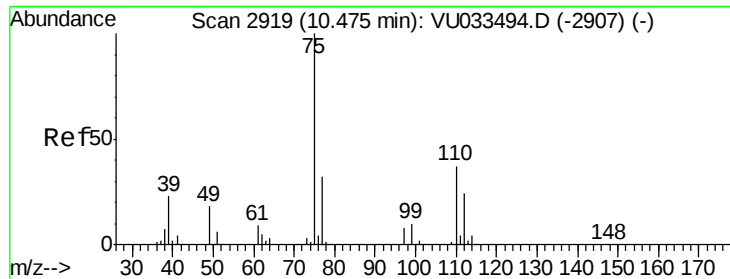


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.536 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

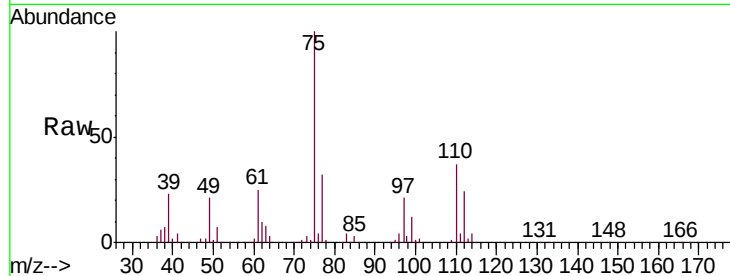
VSTD05036

Tgt Ion: 75 Resp: 171321

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033494.D (-2907) (-)

10.48

120000

100000

80000

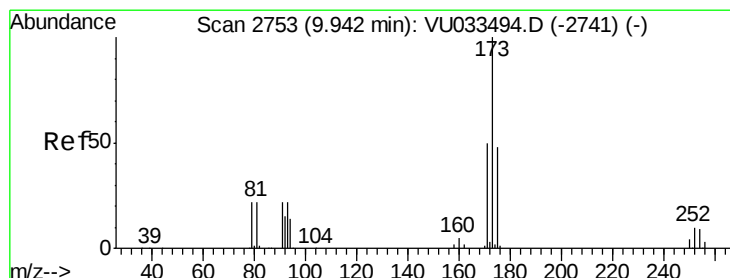
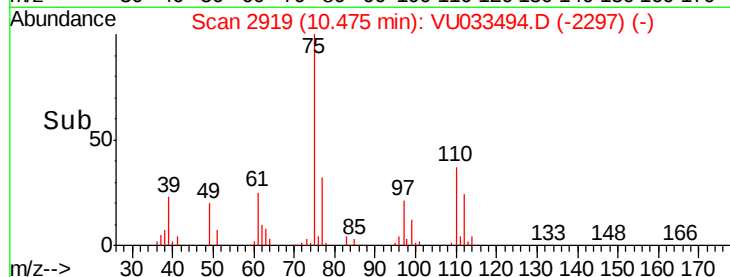
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 49.108 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

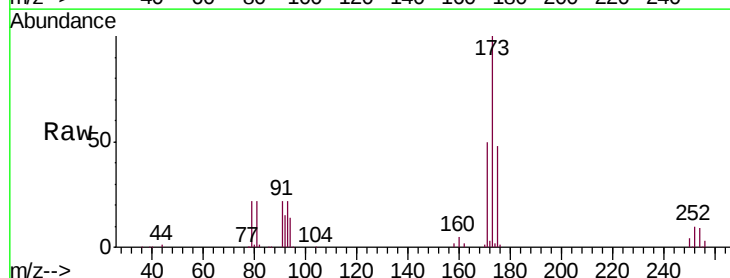
Tgt Ion: 173 Resp: 109005

Ion Ratio Lower Upper

173 100

175 48.4 38.7 58.1

254 9.4 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU033494.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033494.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033494.D (-2741) (-)

9.94

80000

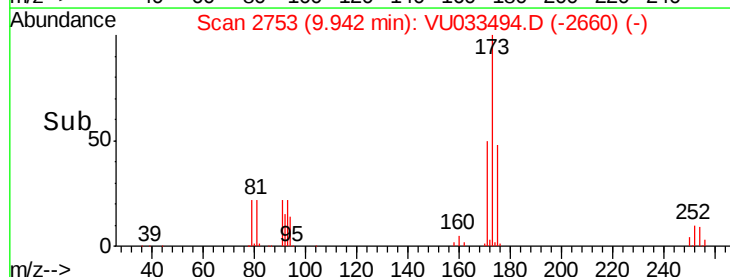
60000

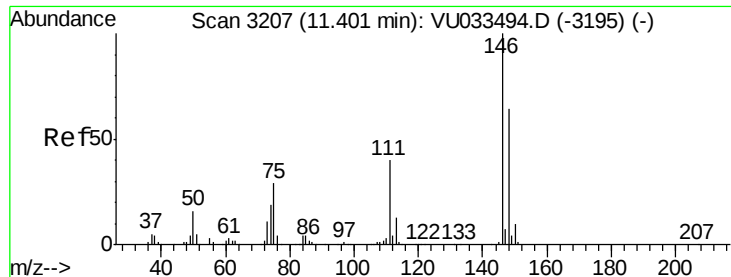
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.997 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

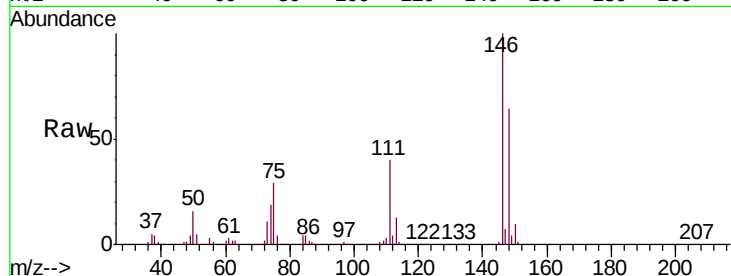
Tgt Ion:146 Resp: 273380

Ion Ratio Lower Upper

146 100

111 40.1 28.1 52.1

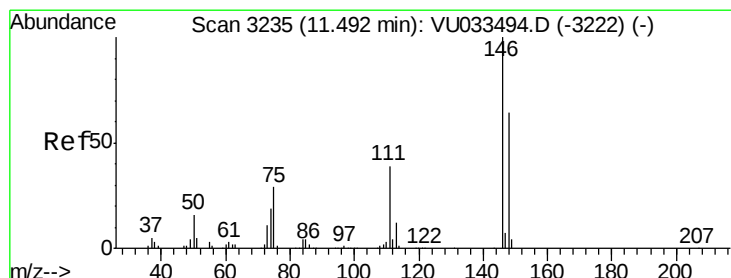
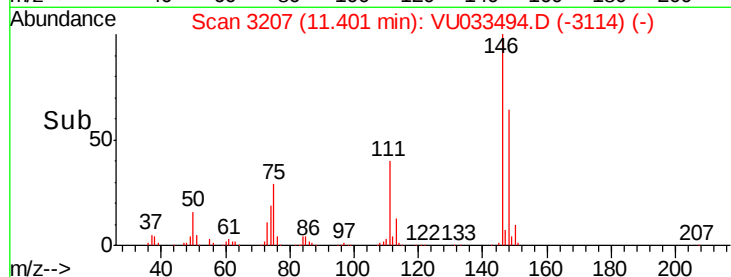
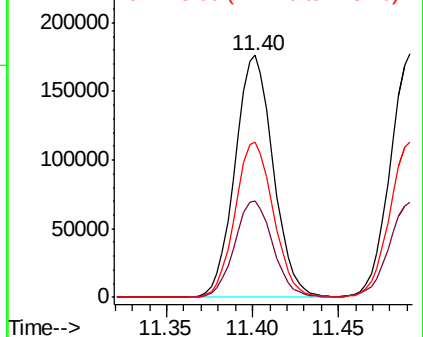
148 64.3 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.038 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

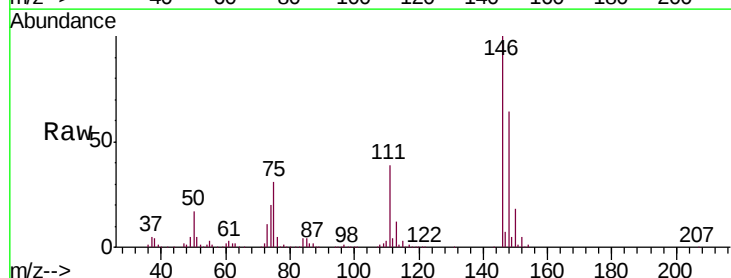
Tgt Ion:146 Resp: 279215

Ion Ratio Lower Upper

146 100

111 38.8 27.2 50.4

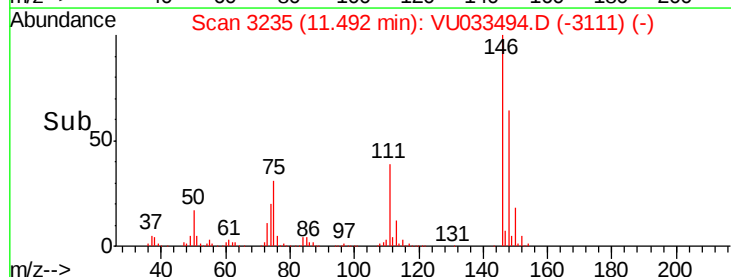
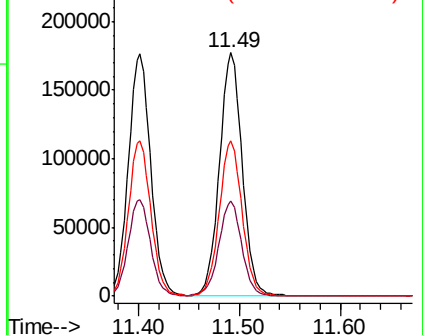
148 63.6 44.5 82.7

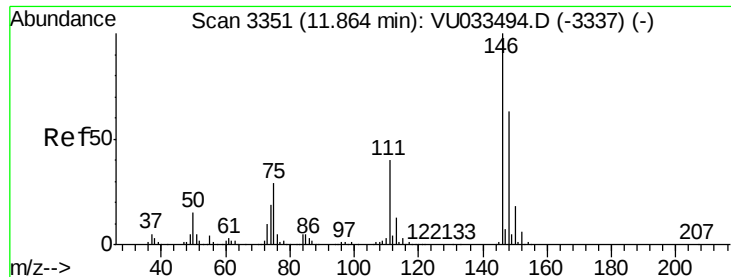


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

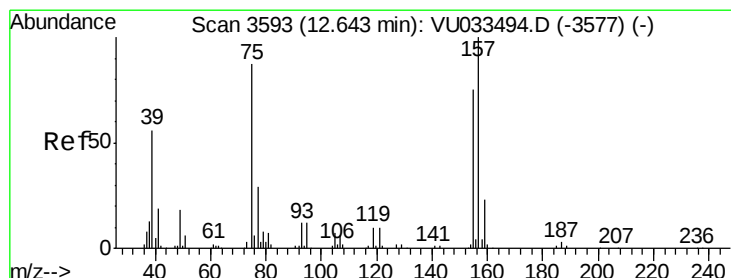
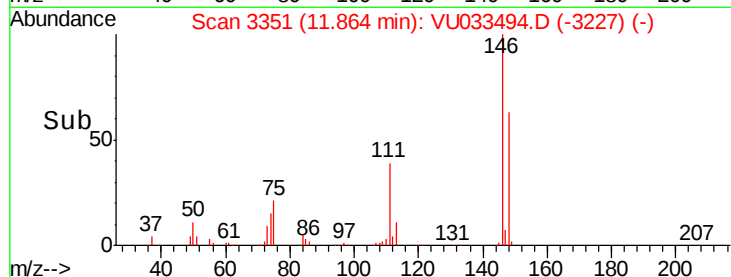
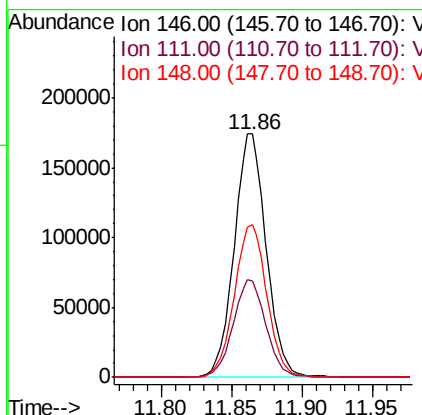
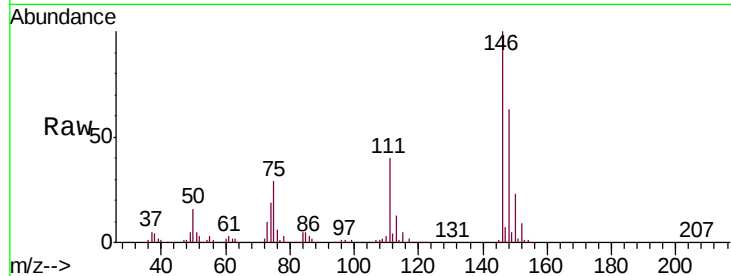




#65
 1,2-Dichlorobenzene
 Concen: 48.675 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

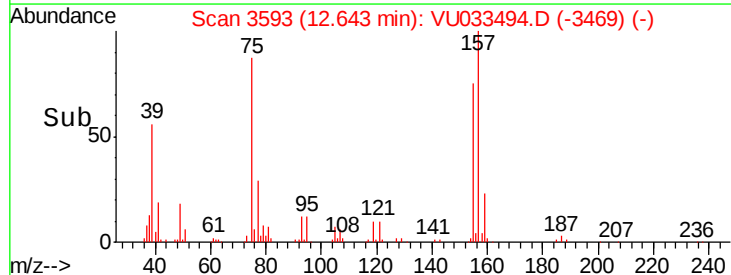
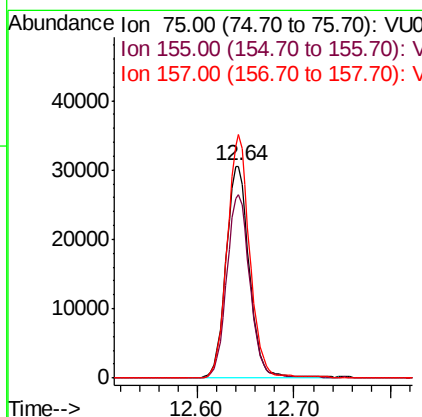
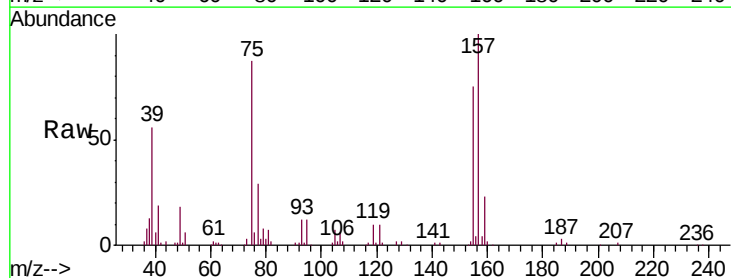
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

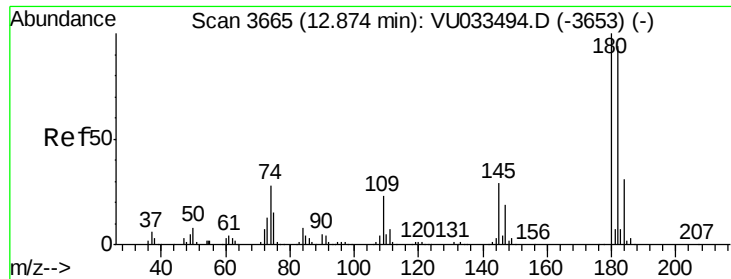
Tgt Ion: 146 Resp: 277499
 Ion Ratio Lower Upper
 146 100
 111 39.6 31.7 47.5
 148 62.9 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.939 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Tgt Ion: 75 Resp: 50964
 Ion Ratio Lower Upper
 75 100
 155 86.7 69.4 104.0
 157 114.8 91.8 137.8

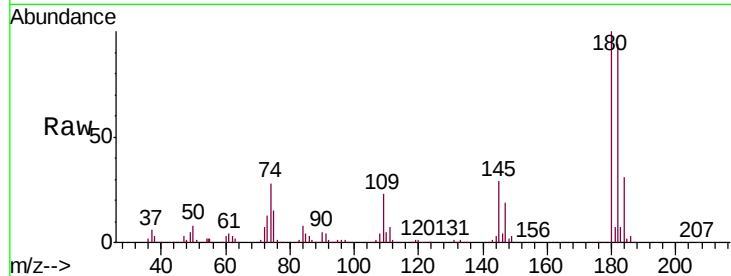




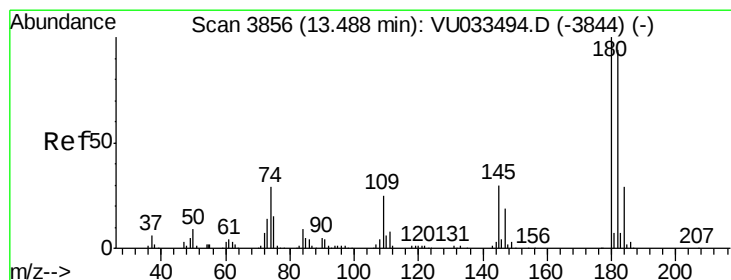
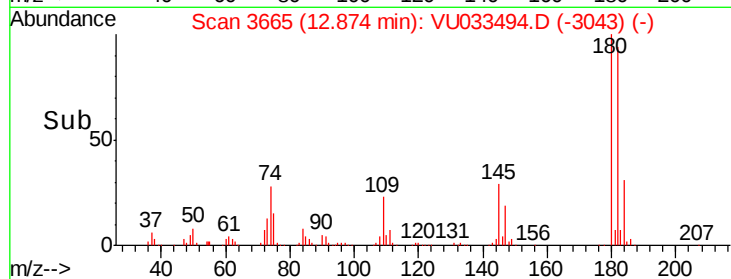
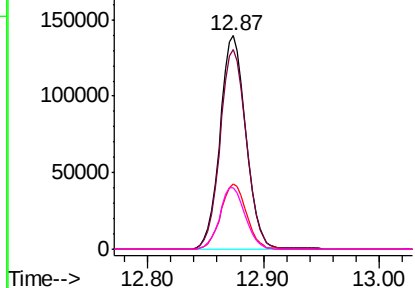
#67
 1,3,5-Trichlorobenzene
 Concen: 53.043 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion:180 Resp: 216988
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.6 113.4
 184 30.2 24.2 36.2
 145 28.4 22.7 34.1

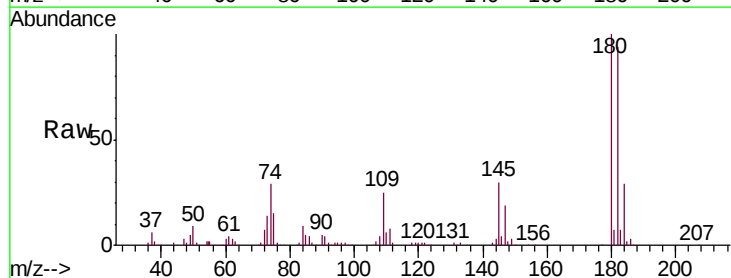


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

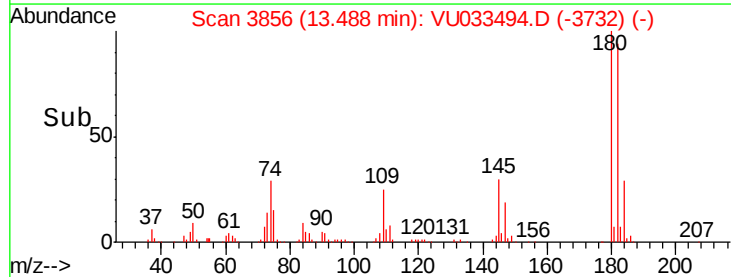
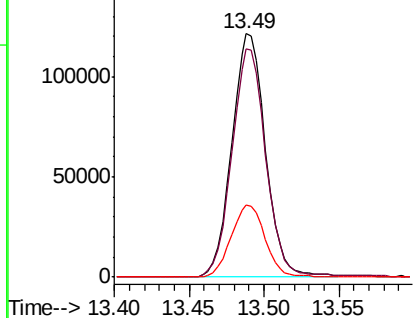


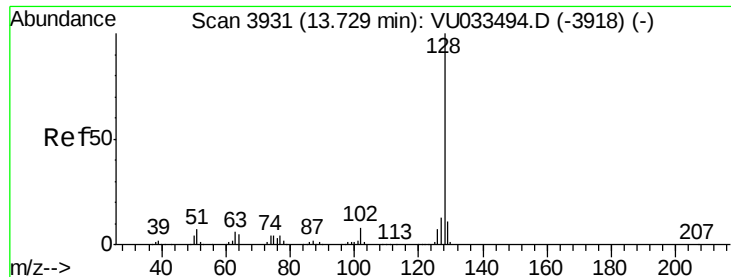
#68
 1,2,4-trichlorobenzene
 Concen: 53.191 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033494.D
 Acq: 30 Jul 2019 15:45

Tgt Ion:180 Resp: 190184
 Ion Ratio Lower Upper
 180 100
 182 94.8 75.8 113.8
 145 30.4 24.3 36.5



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





#69

Naphthalene

Concen: 50.567 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

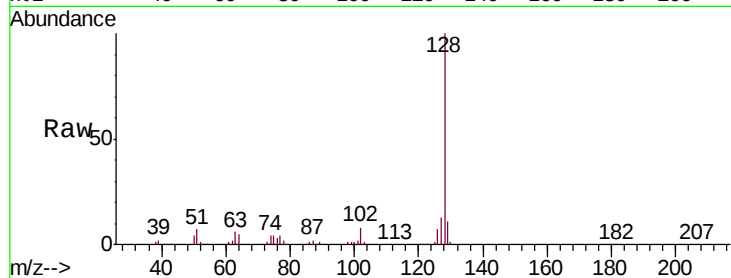
Tgt Ion:128 Resp: 566824

Ion Ratio Lower Upper

128 100

127 13.5 10.8 16.2

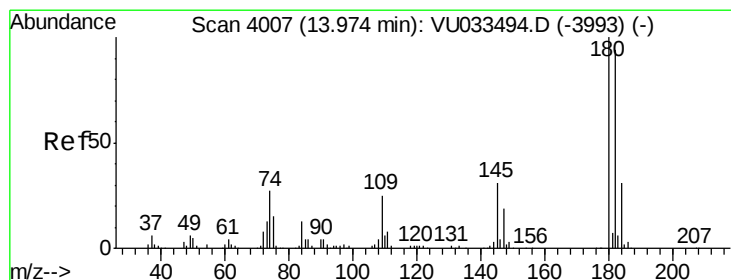
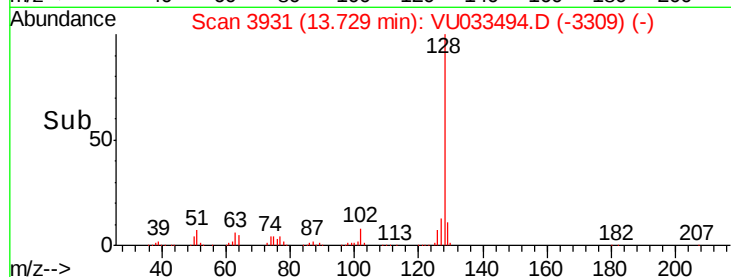
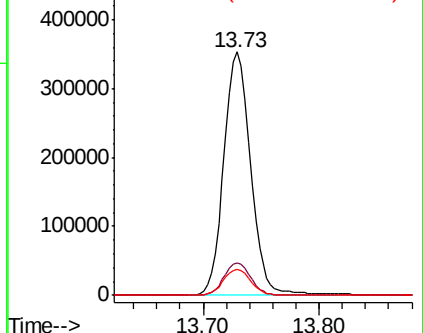
129 10.9 8.7 13.1



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: 51.786 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033494.D

Acq: 30 Jul 2019 15:45

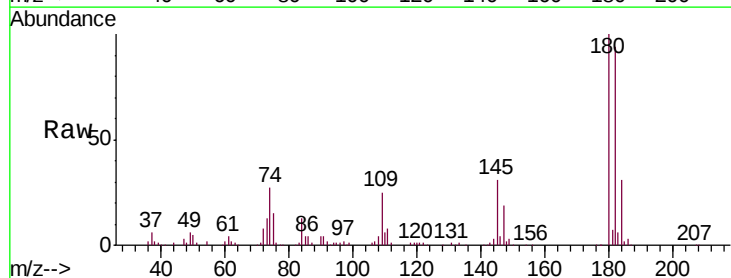
Tgt Ion:180 Resp: 201094

Ion Ratio Lower Upper

180 100

182 94.4 75.5 113.3

145 30.5 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

