

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040816.D
 Acq On : 19 Oct 2020 19:58
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Quant Time: Oct 20 01:40:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 01:28:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	121481	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	124664	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	68746	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	46749	4.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.80%
7) Chloroethane-d5	1.92	69	39138	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.80%
11) 1,1-Dichloroethene-d2	2.58	63	93316	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.80%
20) 2-Butanone-d5	4.65	46	168733	52.38	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.76%
24) Chloroform-d	5.08	84	92140	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.40%
26) 1,2-Dichloroethane-d4	5.72	65	55039	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.74	84	172474	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
36) 1,2-Dichloropropane-d6	6.70	67	56016	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.91	98	156501	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.00%
43) trans-1,3-Dichloropropene-	8.19	79	24003	5.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.60%
46) 2-Hexanone-d5	8.64	63	131574	53.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.98%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	53367	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	62894	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	51749	4.701	ug/L 99
3) Chloromethane	1.53	50	44828	4.355	ug/L 97
5) Vinyl chloride	1.61	62	49127	4.532	ug/L 91
6) Bromomethane	1.87	94	21569	3.664	ug/L 94
8) Chloroethane	1.94	64	32923	4.770	ug/L 98
9) Trichlorofluoromethane	2.15	101	78290	5.030	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	51444	5.091	ug/L 99
12) 1,1-Dichloroethene	2.59	96	41040	4.735	ug/L 99
13) Acetone	2.66	43	124530	49.875	ug/L 100
14) Carbon disulfide	2.81	76	99209	4.089	ug/L 99
15) Methyl Acetate	2.97	43	29276	5.135	ug/L 96
16) Methylene chloride	3.06	84	55287	4.968	ug/L 93
17) Methyl tert-butyl Ether	3.38	73	120932	4.934	ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	42981	4.737	ug/L 95
19) 1,1-Dichloroethane	3.89	63	98327	5.240	ug/L 98
21) 2-Butanone	4.73	43	207940	53.417	ug/L 99
22) cis-1,2-Dichloroethene	4.69	96	50366	5.147	ug/L 95

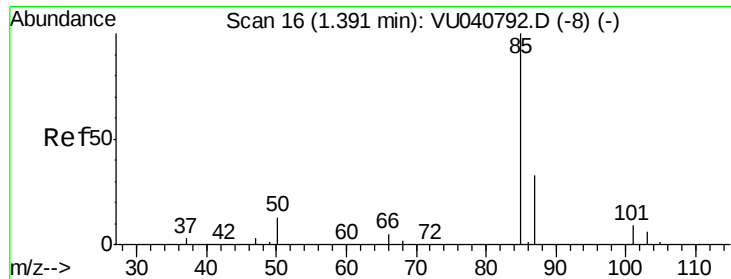
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101920\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	25159	5.175	ug/L	98
25) Chloroform	5.11	83	107119	5.591	ug/L	99
27) 1,2-Dichloroethane	5.81	62	70597	5.206	ug/L	100
29) 1,1,1-Trichloroethane	5.33	97	86166	5.143	ug/L	98
30) Cyclohexane	5.41	56	65425	4.238	ug/L	98
31) Carbon tetrachloride	5.54	117	73070	5.097	ug/L	100
33) Benzene	5.79	78	201277	5.025	ug/L	100
34) Trichloroethene	6.55	95	49401	4.758	ug/L	99
35) Methylcyclohexane	6.77	83	63561	4.317	ug/L	99
37) 1,2-Dichloropropane	6.80	63	57539	5.156	ug/L	99
38) Bromodichloromethane	7.11	83	74755	5.240	ug/L	97
39) cis-1,3-Dichloropropene	7.62	75	75061	4.923	ug/L	96
40) 4-Methyl-2-pentanone	7.80	43	481609	54.133	ug/L	100
42) Toluene	7.98	91	212599	5.209	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	71830	5.118	ug/L	98
45) 1,1,2-Trichloroethane	8.40	97	44476	5.322	ug/L	99
47) Tetrachloroethene	8.56	164	36510	4.929	ug/L	92
48) 2-Hexanone	8.69	43	365539	55.186	ug/L	99
49) Dibromochloromethane	8.81	129	52854	5.496	ug/L	92
50) 1,2-Dibromoethane	8.93	107	40266	5.079	ug/L	98
51) Chlorobenzene	9.45	112	139854	5.202	ug/L	98
52) Ethylbenzene	9.57	91	224175	5.076	ug/L	99
53) m,p-Xylene	9.69	106	85305	5.299	ug/L	99
54) o-Xylene	10.10	106	82933	5.357	ug/L	96
55) Styrene	10.11	104	150472	5.597	ug/L	98
56) Isopropylbenzene	10.48	105	220459	5.290	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	60161	5.483	ug/L	97
59) 1,2,3-Trichloropropane	10.82	75	44936	5.482	ug/L	98
61) Bromoform	10.29	173	30029	5.096	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	116862	5.194	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	118370	5.102	ug/L	99
65) 1,2-Dichlorobenzene	12.20	146	114799	5.219	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.99	75	9578	4.973	ug/L	91
67) 1,3,5-Trichlorobenzene	13.21	180	78734	4.932	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	61473	4.984	ug/L	98
69) Naphthalene	14.08	128	98634	4.888	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	58720	5.126	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.701 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

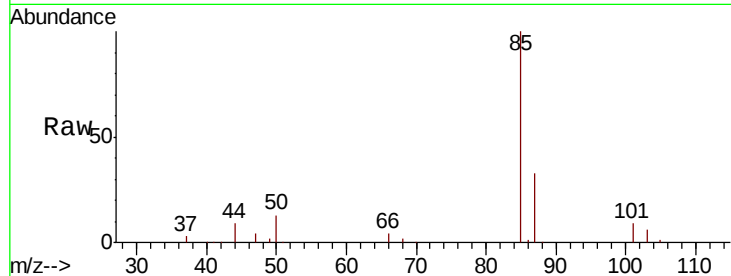
VSTD00518

Tot Ion: 85 Resp: 51749

Ion Ratio Lower Upper

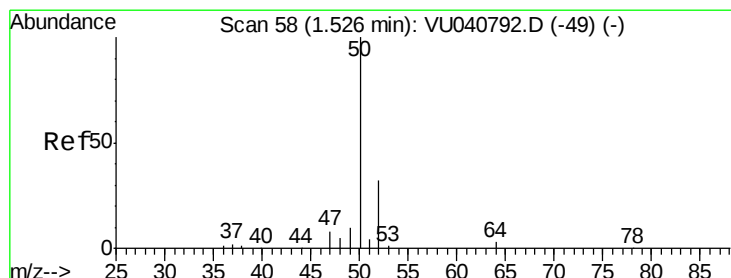
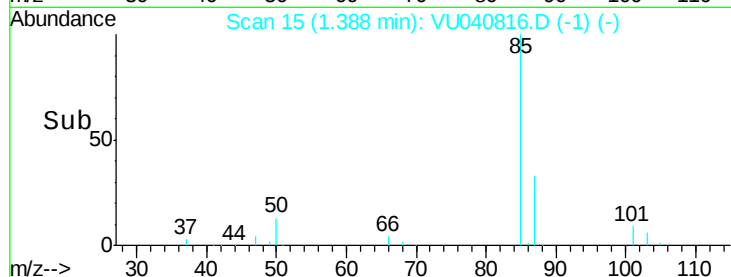
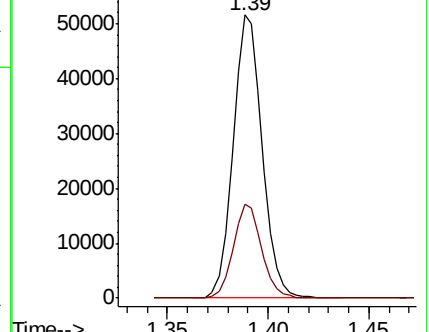
85 100

87 32.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU040792.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU040792.D (-8) (-)



#3

Chloromethane

Concen: 4.355 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040816.D

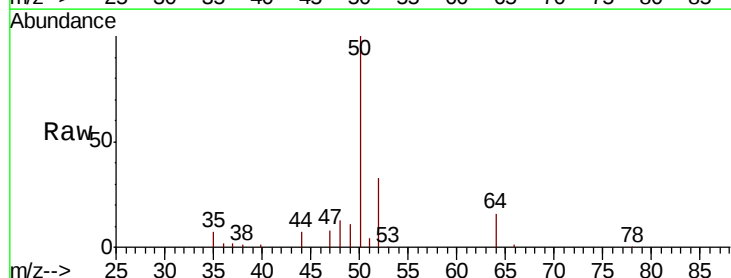
Acq: 19 Oct 2020 19:58

Tgt Ion: 50 Resp: 44828

Ion Ratio Lower Upper

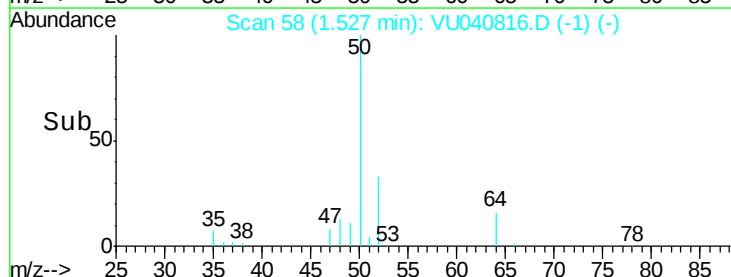
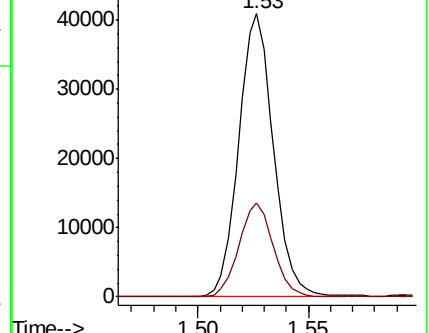
50 100

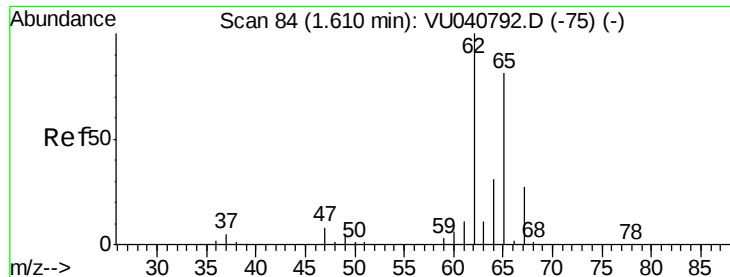
52 33.2 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU040792.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040792.D (-49) (-)





#5

Vinyl chloride

Concen: 4.532 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

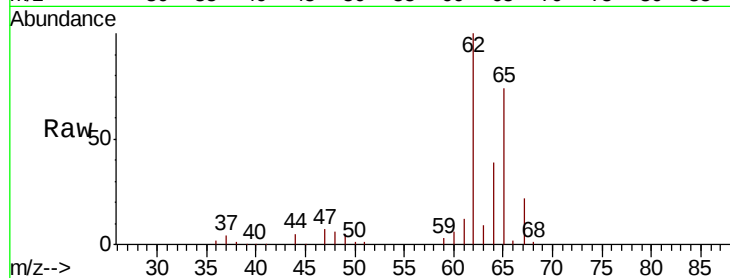
VSTD00518

Tot Ion: 62 Resp: 49127

Ion Ratio Lower Upper

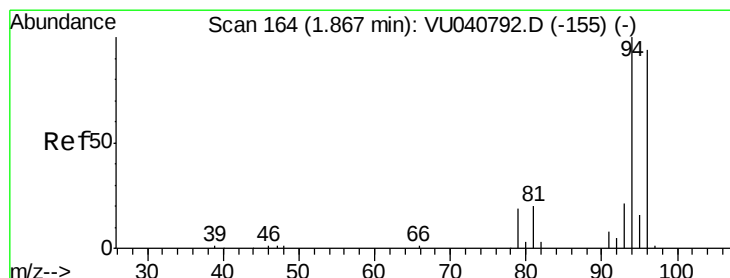
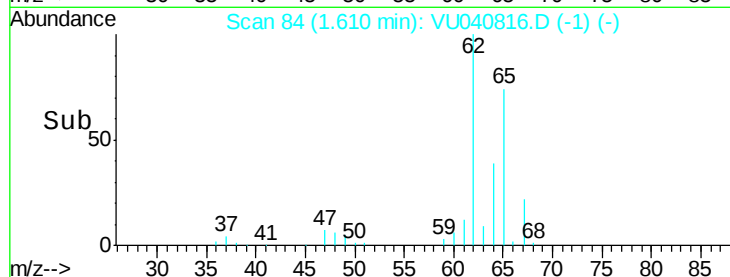
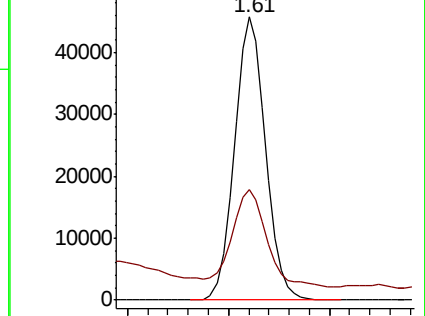
62 100

64 39.1 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 3.664 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040816.D

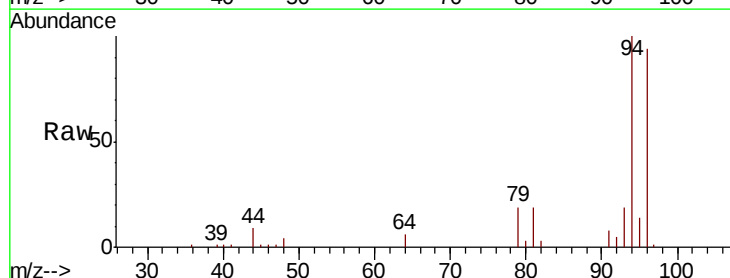
Acq: 19 Oct 2020 19:58

Tgt Ion: 94 Resp: 21569

Ion Ratio Lower Upper

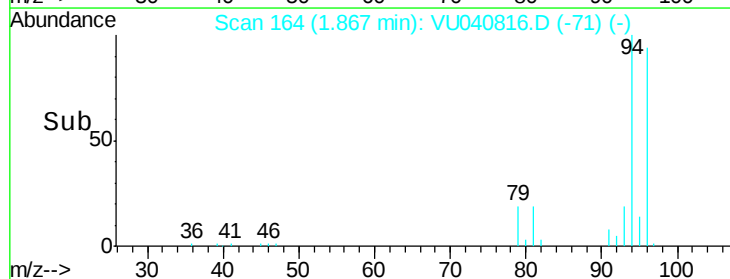
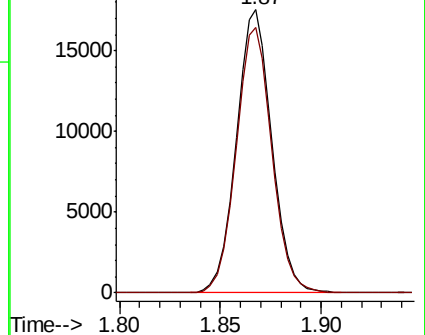
94 100

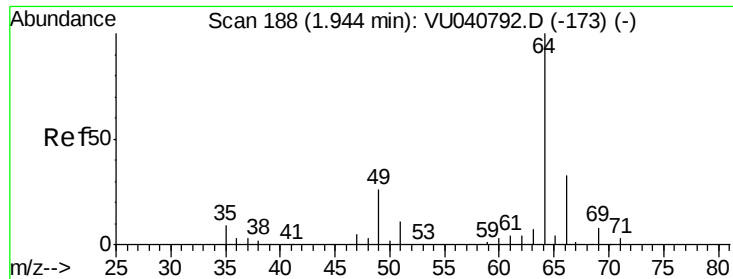
96 94.0 62.1 115.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.770 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

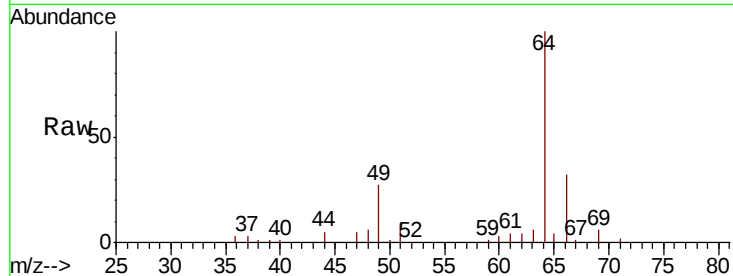
VSTD00518

Tot Ion: 64 Resp: 32923

Ion Ratio Lower Upper

64 100

66 32.1 23.3 43.3



Abundance Ion 64.10 (63.80 to 64.80): VU040792.D (-173) (-)

Ion 66.05 (65.75 to 66.75): VU040792.D (-173) (-)

1.94

25000

20000

15000

10000

5000

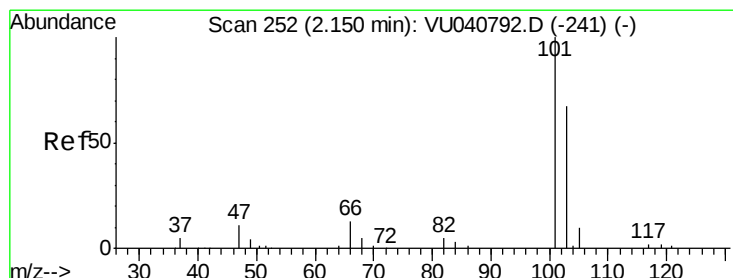
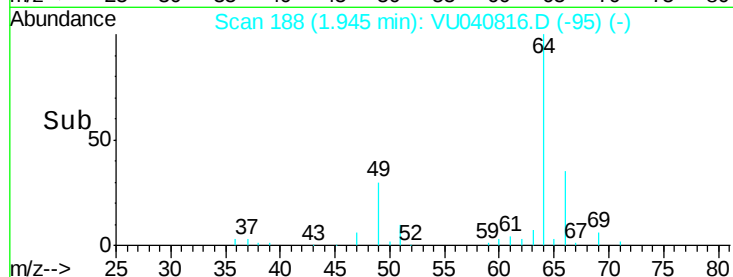
0

1.90

1.95

2.00

Time-->



#9

Trichlorofluoromethane

Concen: 5.030 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU040816.D

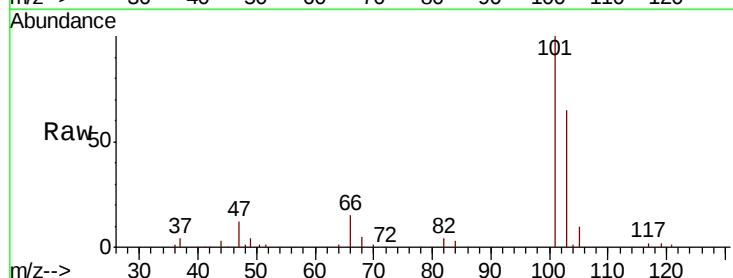
Acq: 19 Oct 2020 19:58

Tgt Ion: 101 Resp: 78290

Ion Ratio Lower Upper

101 100

103 65.1 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU040792.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU040792.D (-241) (-)

2.15

60000

50000

40000

30000

20000

10000

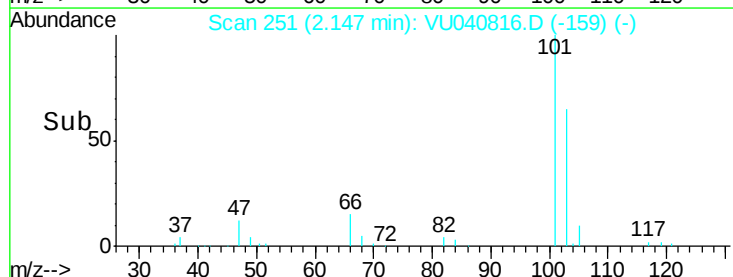
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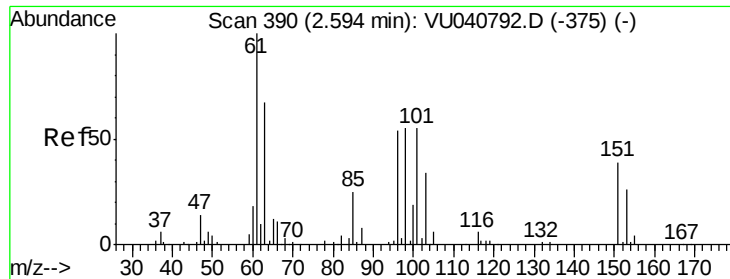
2.10

2.15

2.20

Time-->





#10

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

Concen: 5.091 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

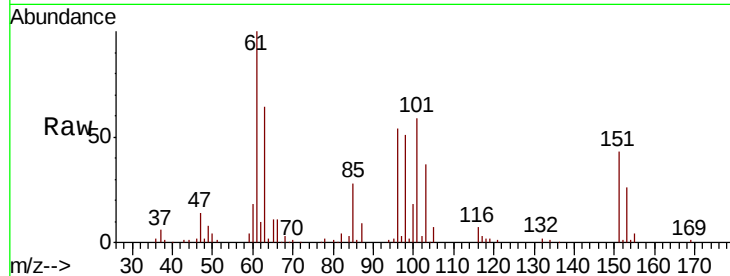
Tot Ion:101 Resp: 51444

Ion Ratio Lower Upper

101 100

85 44.3 36.7 55.1

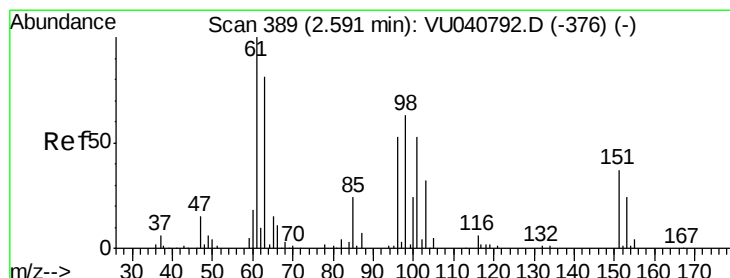
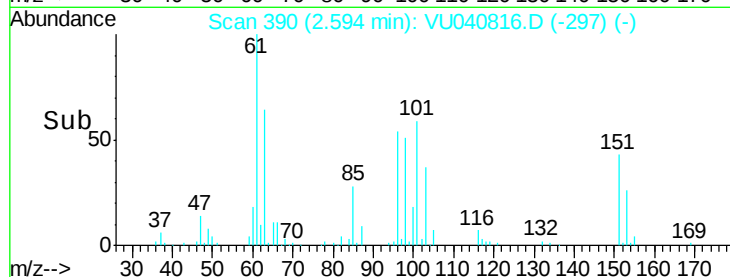
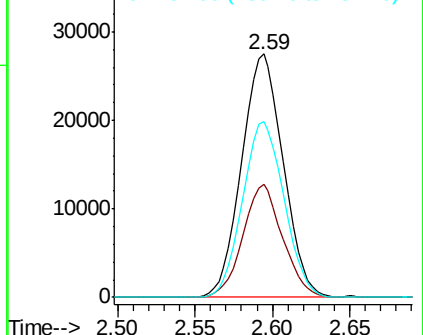
151 71.9 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.735 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

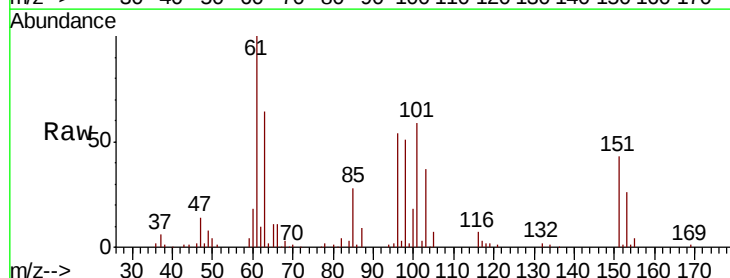
Tgt Ion: 96 Resp: 41040

Ion Ratio Lower Upper

96 100

61 183.6 128.8 239.2

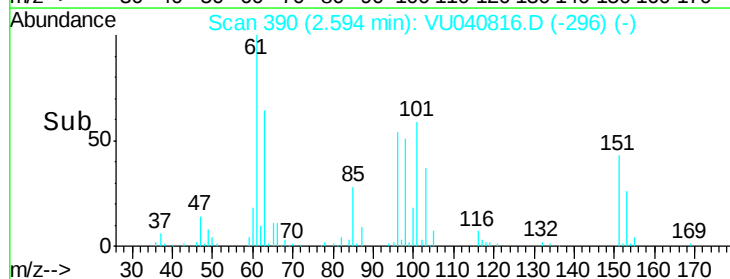
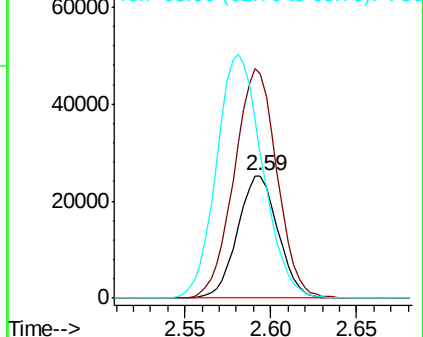
63 117.2 84.6 157.2

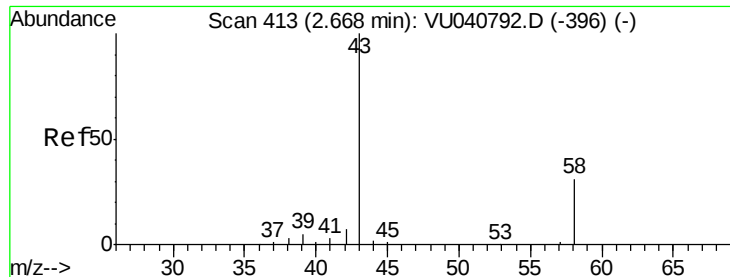


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.875 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.01 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

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ClientSampleId :

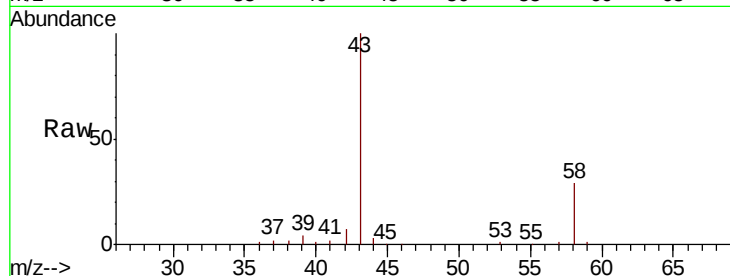
VSTD00518

Tot Ion: 43 Resp: 124530

Ion Ratio Lower Upper

43 100

58 30.4 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040816.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU040816.D (-320) (-)

2.66

50000

40000

30000

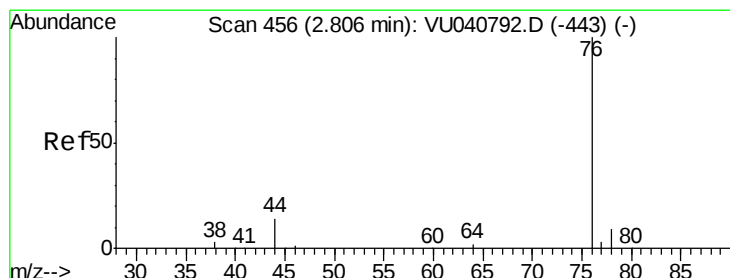
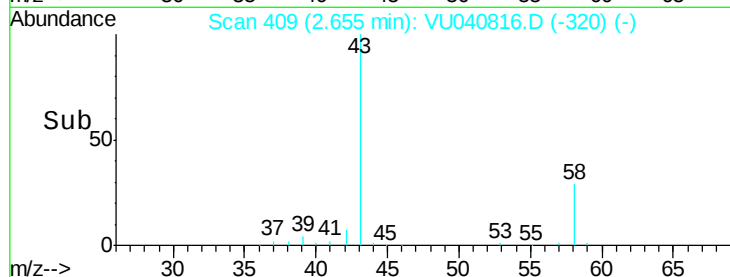
20000

10000

0

Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 4.089 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040816.D

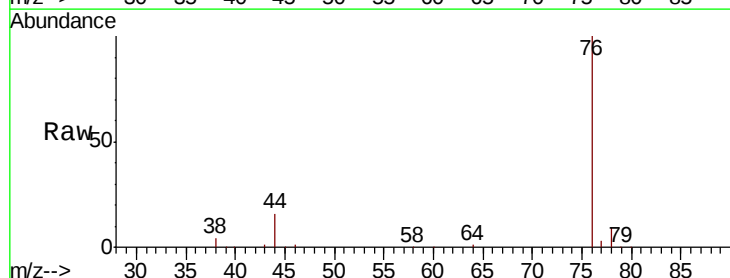
Acq: 19 Oct 2020 19:58

Tgt Ion: 76 Resp: 99209

Ion Ratio Lower Upper

76 100

78 8.8 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040816.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040816.D (-363) (-)

2.81

60000

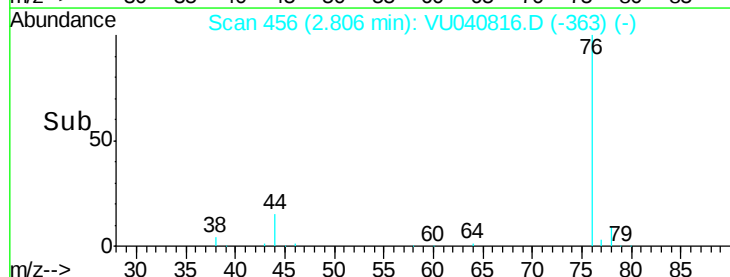
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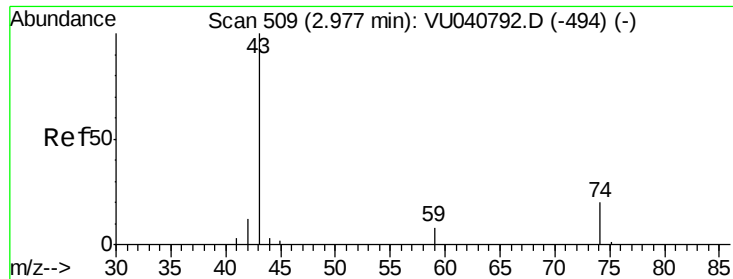
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0

Time-->

2.75 2.80 2.85 2.90

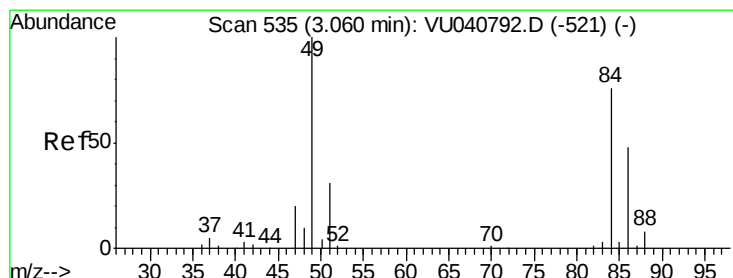
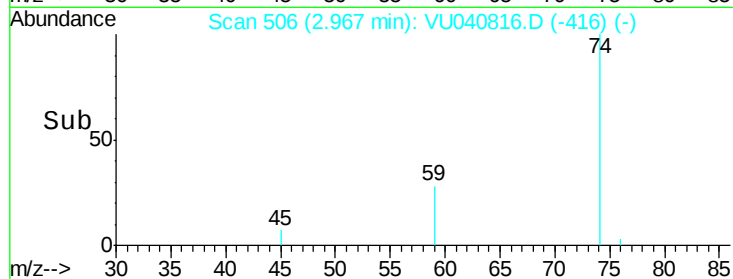
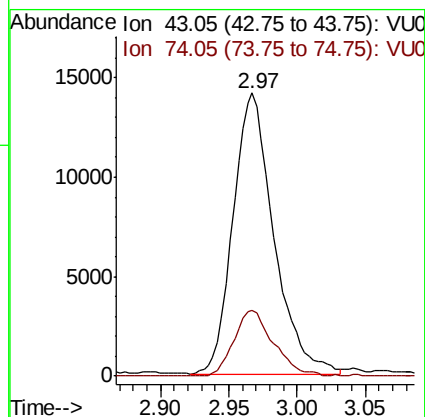
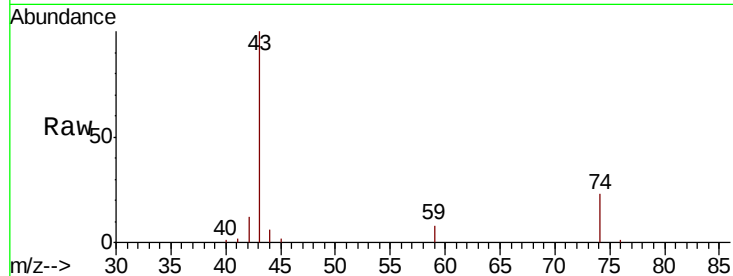




#15
Methvl Acetate
Concen: 5.135 ug/L
RT: 2.97 min Scan# 506
Delta R.T. -0.01 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

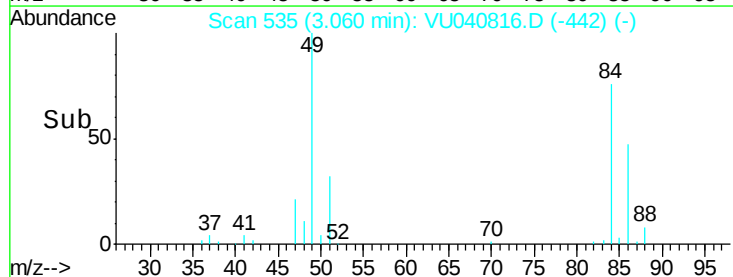
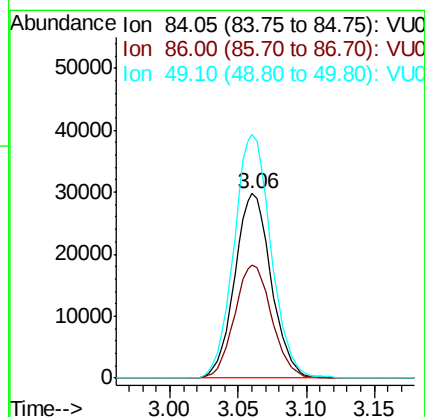
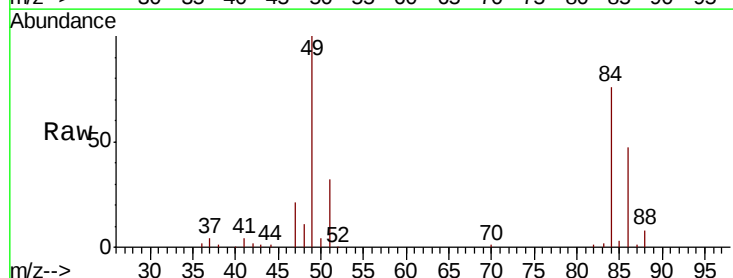
Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

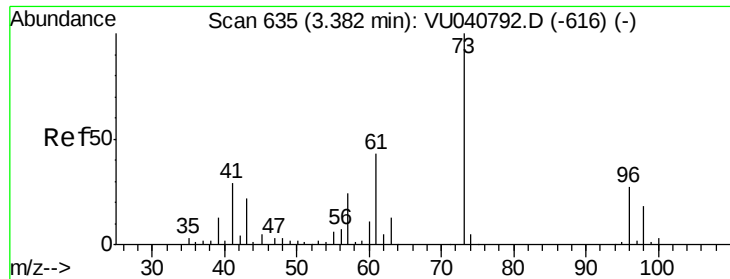
Tot Ion: 43 Resp: 29276
Ion Ratio Lower Upper
43 100
74 22.6 16.5 24.7



#16
Methylene chloride
Concen: 4.968 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion: 84 Resp: 55287
Ion Ratio Lower Upper
84 100
86 61.5 45.4 84.4
49 132.0 99.8 185.3

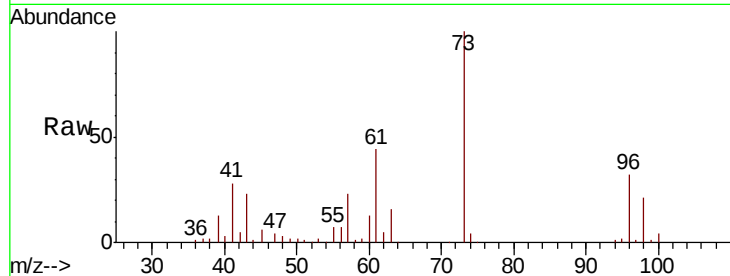




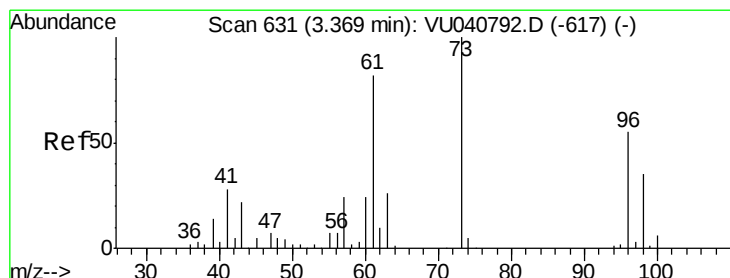
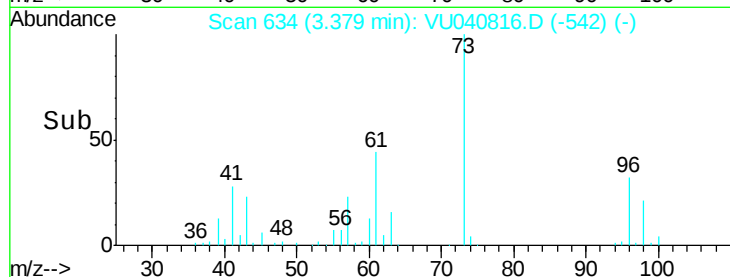
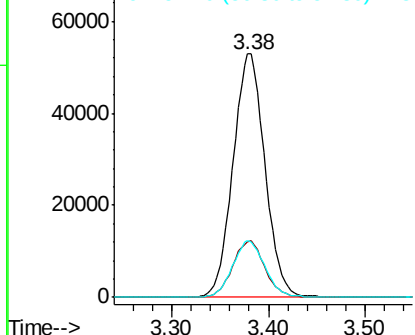
#17
Methvl tert-butvl Ether
Concen: 4.934 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

Tot Ion: 73 Resp: 120932
Ion Ratio Lower Upper
73 100
43 23.6 18.2 27.4
57 23.5 18.6 28.0

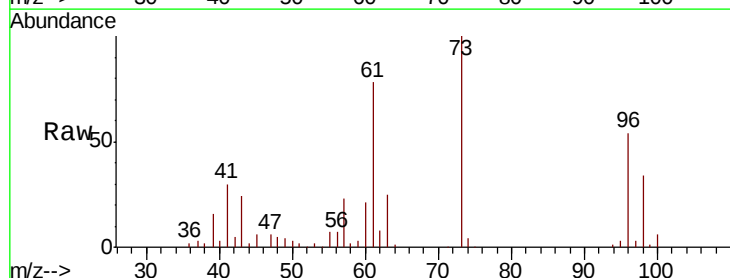


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

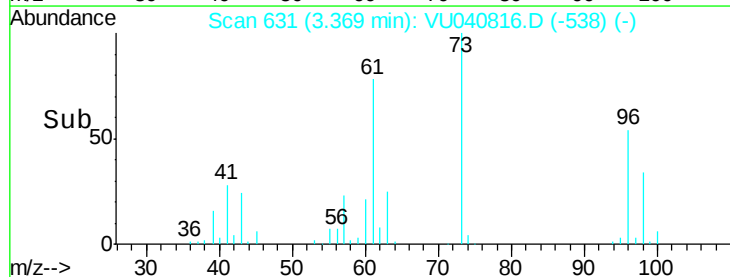
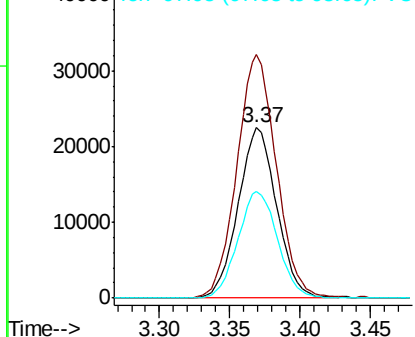


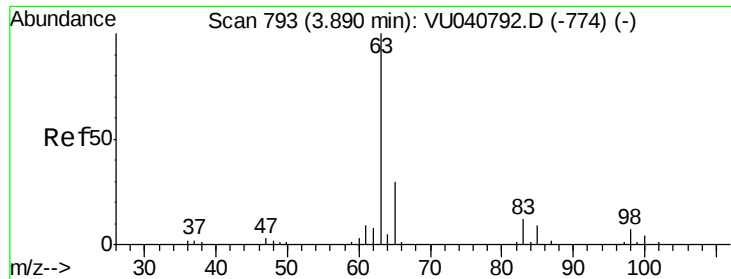
#18
trans-1,2-Dichloroethene
Concen: 4.737 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion: 96 Resp: 42981
Ion Ratio Lower Upper
96 100
61 143.0 105.9 196.7
98 62.5 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 5.240 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampled :

VSTD00518

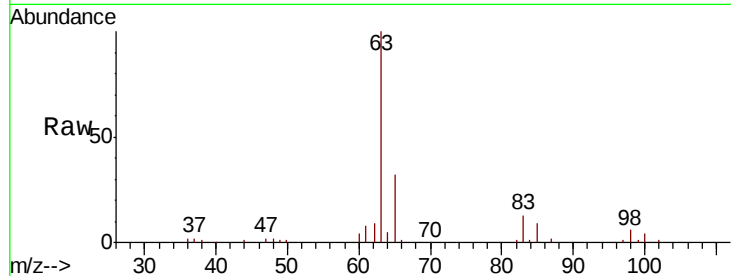
Tot Ion: 63 Resp: 98327

Ion Ratio Lower Upper

63 100

65 32.4 21.9 40.7

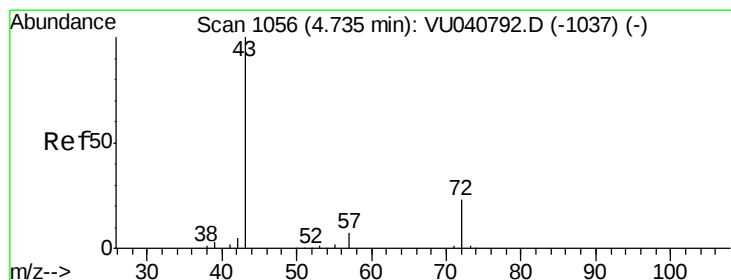
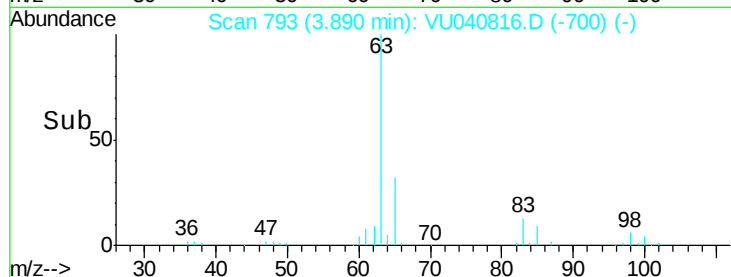
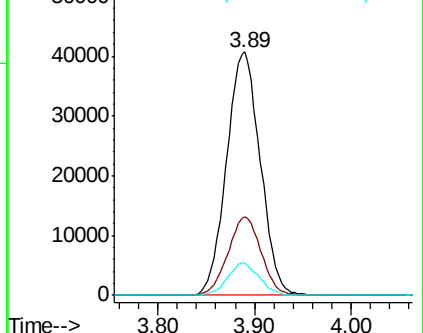
83 13.3 9.6 17.8



Abundance Ion 63.10 (62.80 to 63.80): VU040816.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU040816.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU040816.D (-700) (-)



#21

2-Butanone

Concen: 53.417 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VU040816.D

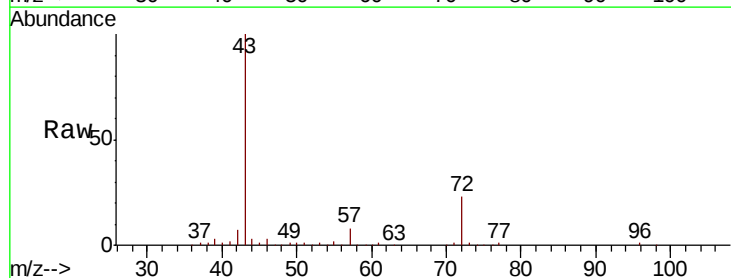
Acq: 19 Oct 2020 19:58

Tgt Ion: 43 Resp: 207940

Ion Ratio Lower Upper

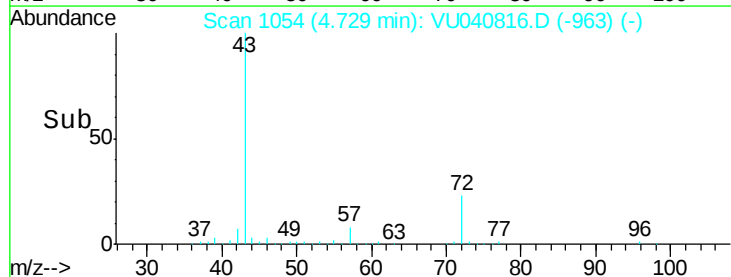
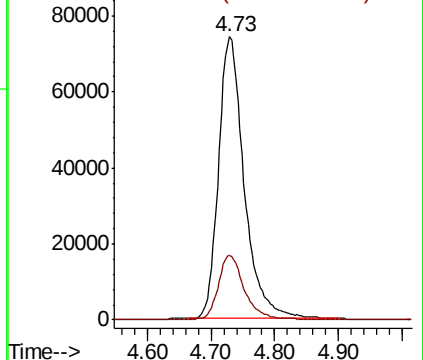
43 100

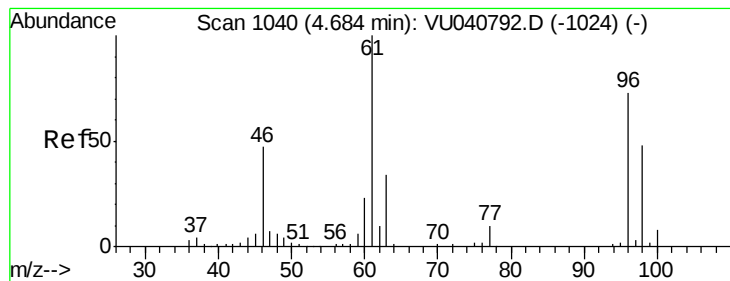
72 23.4 11.4 34.2



Abundance Ion 43.05 (42.75 to 43.75): VU040816.D (-963) (-)

Ion 72.10 (71.80 to 72.80): VU040816.D (-963) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.147 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

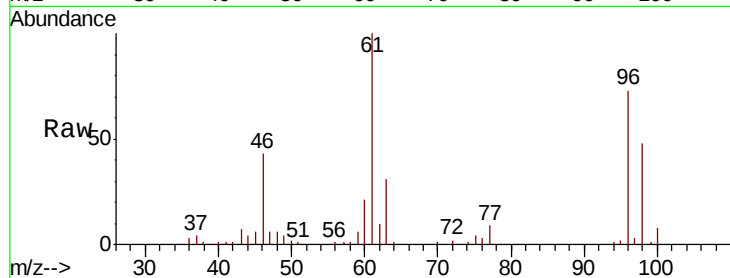
Tot Ion: 96 Resp: 50366

Ion Ratio Lower Upper

96 100

61 137.0 99.8 185.4

68 0.0 0.0 0.0

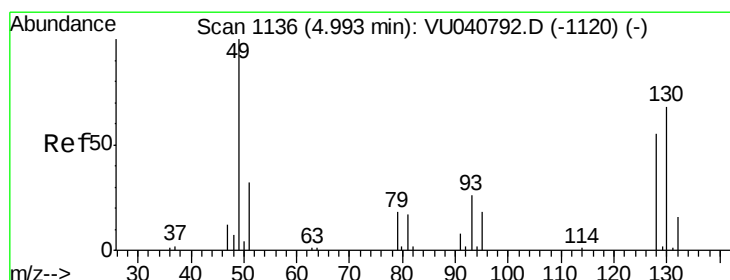
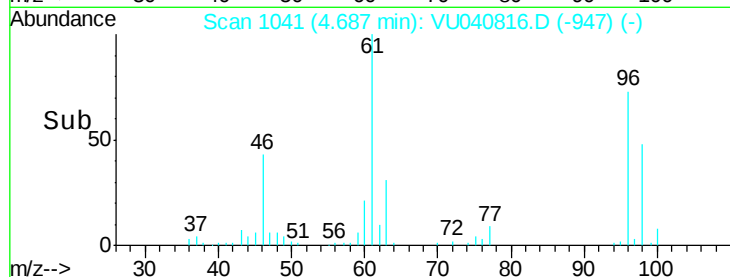
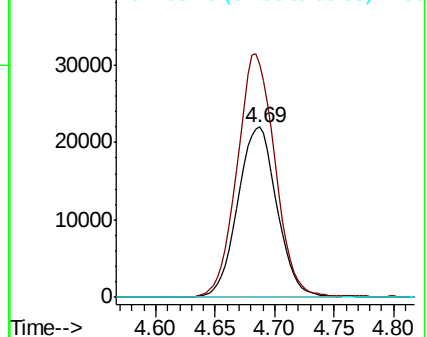


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.175 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Tgt Ion: 128 Resp: 25159

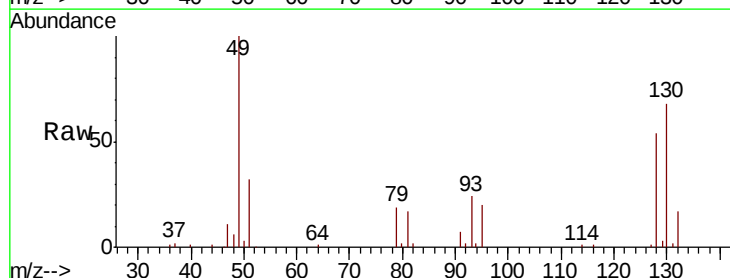
Ion Ratio Lower Upper

128 100

49 185.5 132.2 245.4

130 126.0 89.2 165.8

51 59.9 45.3 67.9



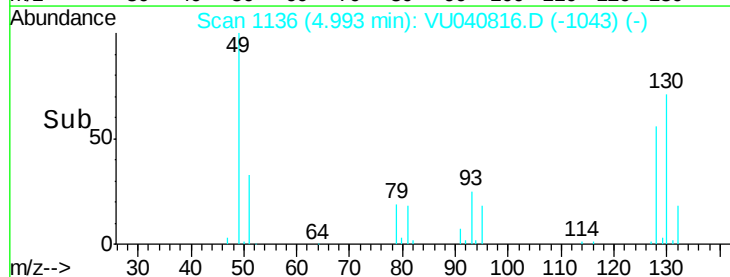
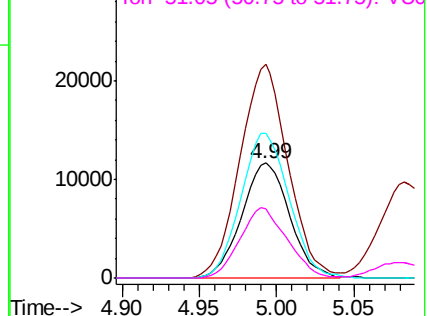
Abundance

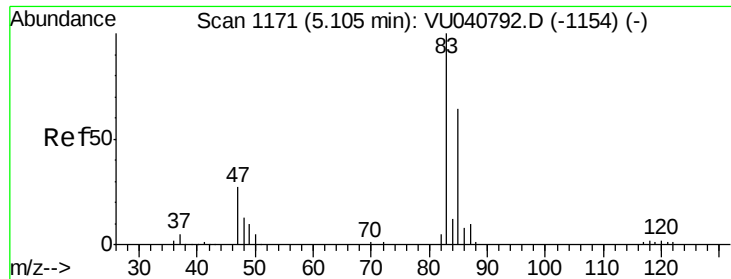
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

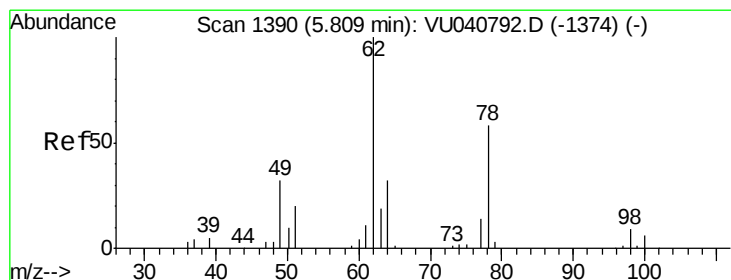
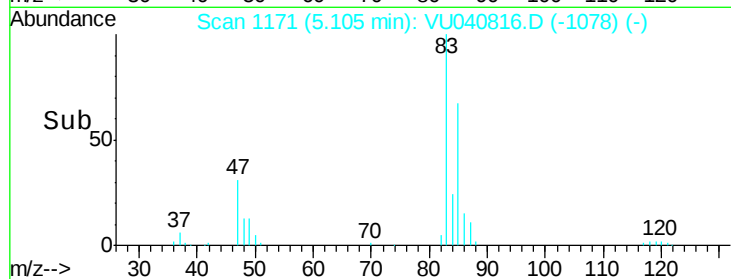
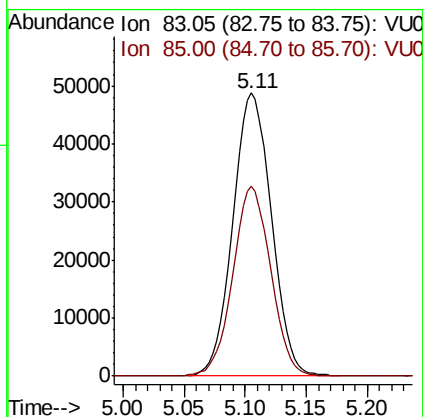
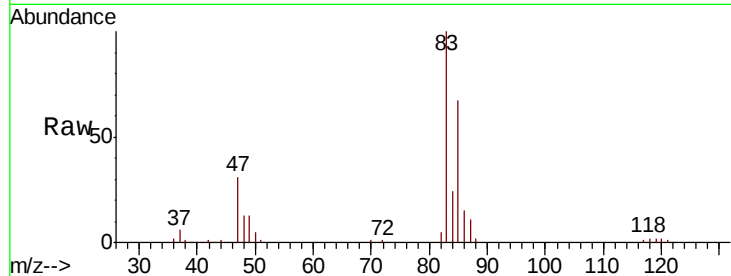




#25
Chloroform
Concen: 5.591 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

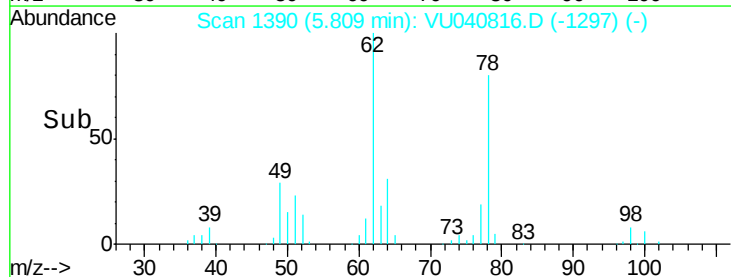
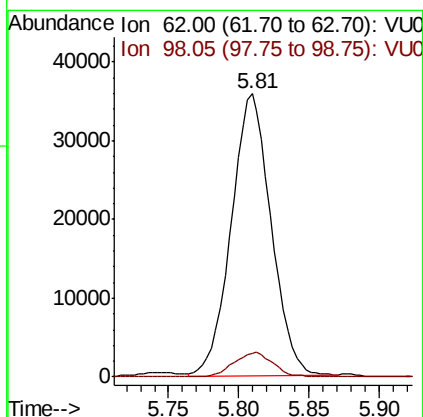
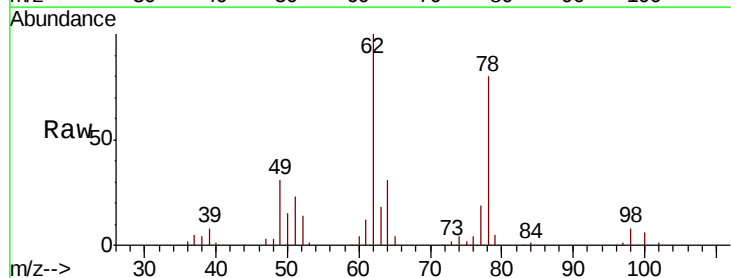
Instrument :
MSVOA_U
ClientSampled :
VSTD00518

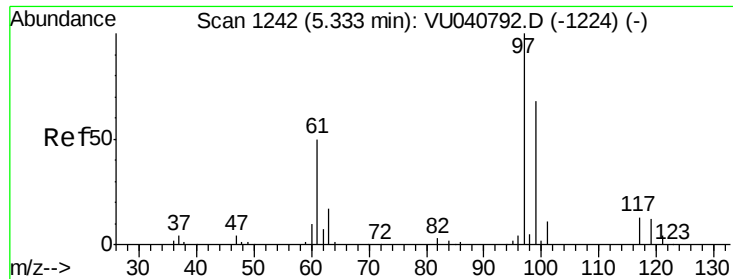
Tot Ion: 83 Resp: 107119
Ion Ratio Lower Upper
83 100
85 67.0 46.5 86.5



#27
1,2-Dichloroethane
Concen: 5.206 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion: 62 Resp: 70597
Ion Ratio Lower Upper
62 100
98 8.4 6.6 10.0

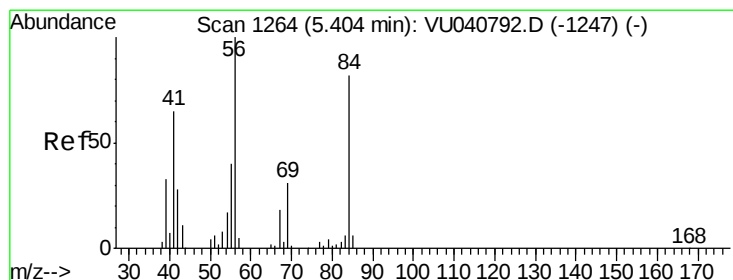
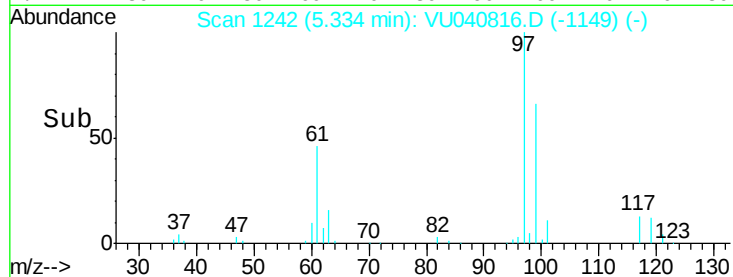
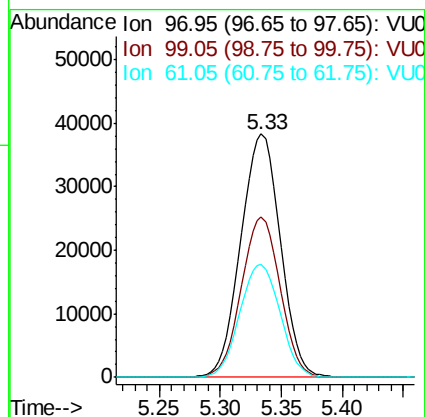
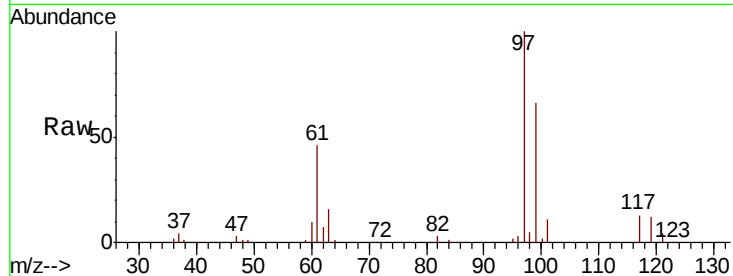




#29
 1,1,1-Trichloroethane
 Concen: 5.143 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

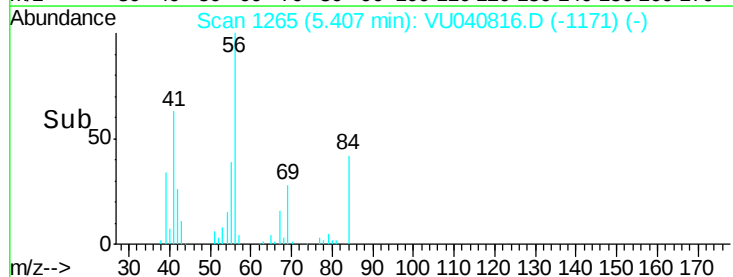
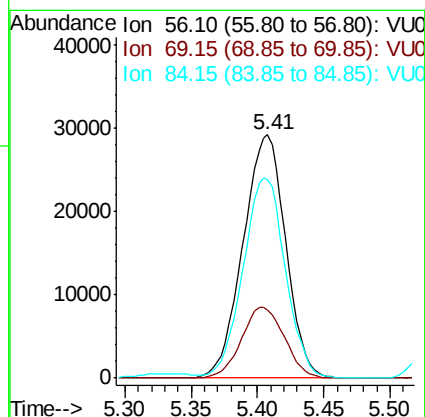
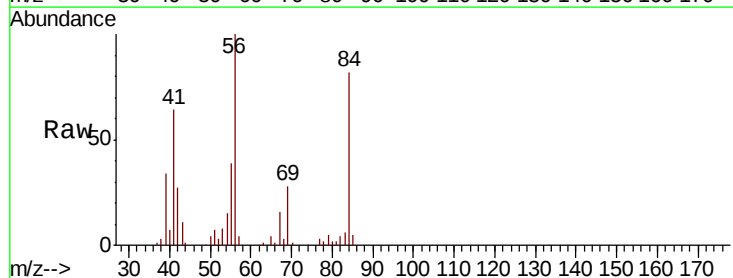
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

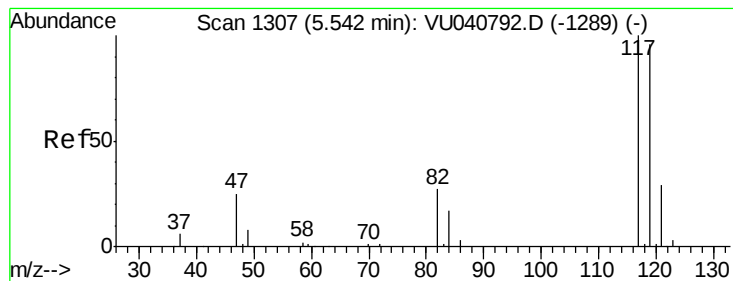
Tot Ion: 97 Resp: 86166
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.3 76.9
 61 47.2 39.4 59.2



#30
 Cyclohexane
 Concen: 4.238 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Tgt Ion: 56 Resp: 65425
 Ion Ratio Lower Upper
 56 100
 69 29.3 23.8 35.8
 84 82.2 64.0 96.0





#31

Carbon tetrachloride

Concen: 5.097 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

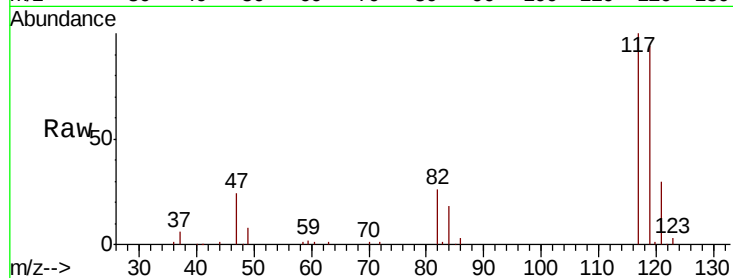
VSTD00518

Tot Ion:117 Resp: 73070

Ion Ratio Lower Upper

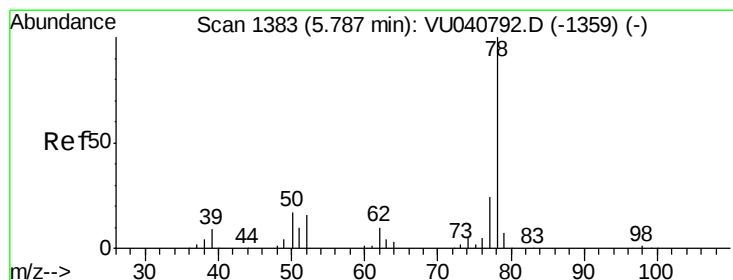
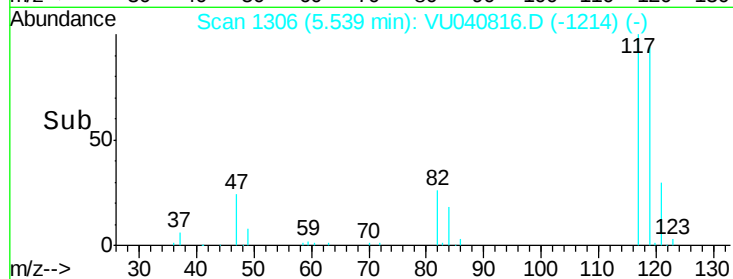
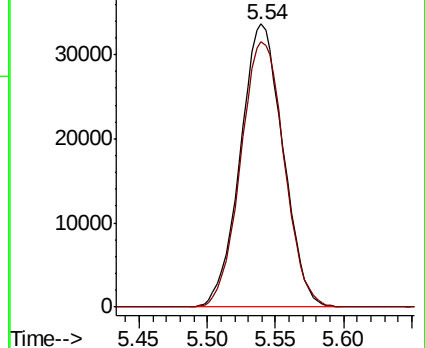
117 100

119 95.5 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.025 ug/L

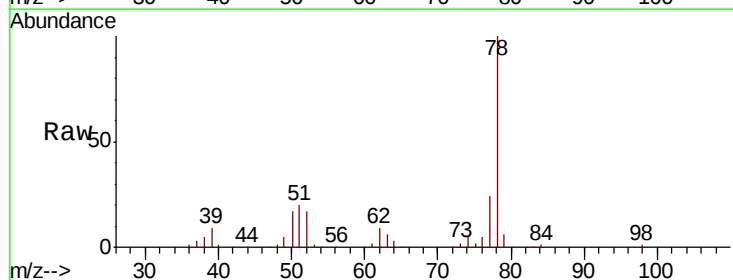
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

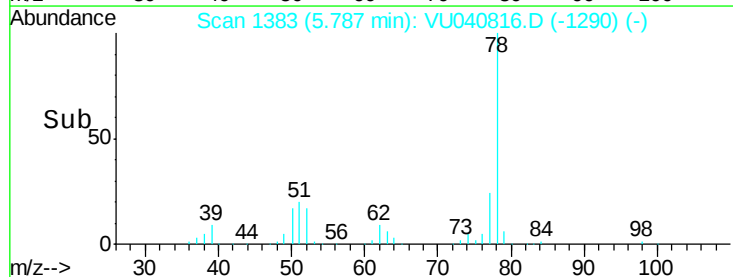
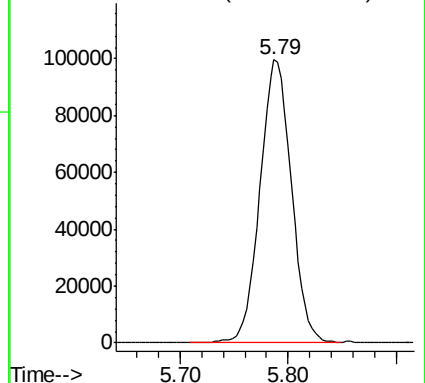
Lab File: VU040816.D

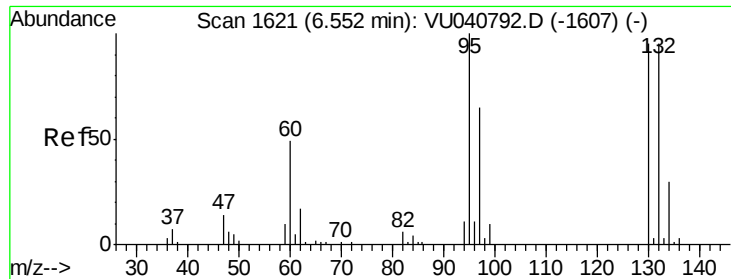
Acq: 19 Oct 2020 19:58

Tgt Ion: 78 Resp: 201277



Abundance Ion 78.10 (77.80 to 78.80): VU0

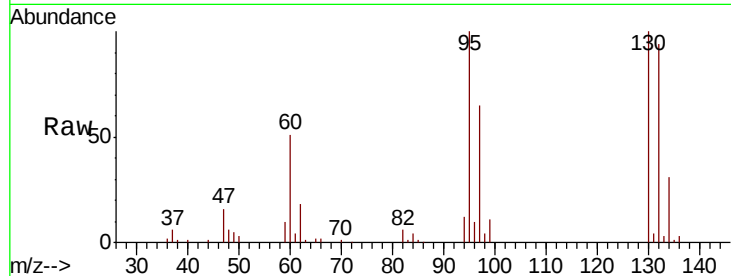




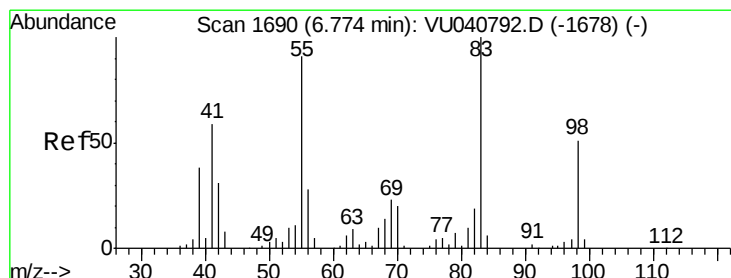
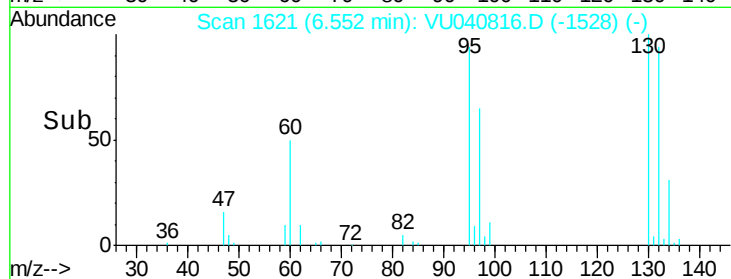
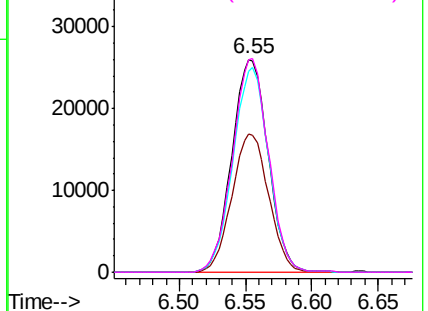
#34
 Trichloroethene
 Concen: 4.758 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Tot Ion: 95 Resp: 49401
 Ion Ratio Lower Upper
 95 100
 97 64.8 45.5 84.5
 132 94.5 67.5 125.4
 130 100.0 69.9 129.9

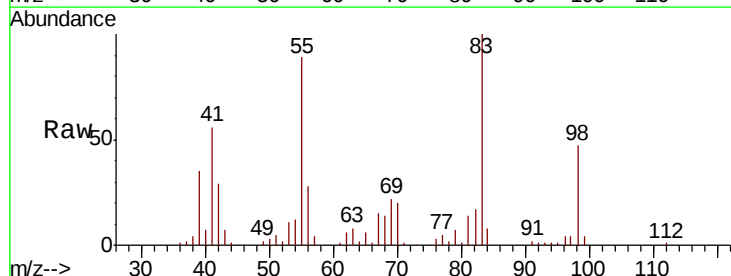


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

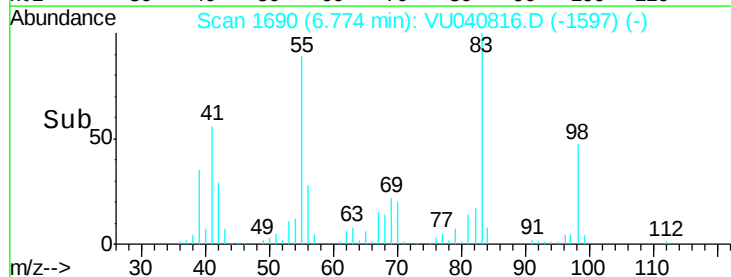
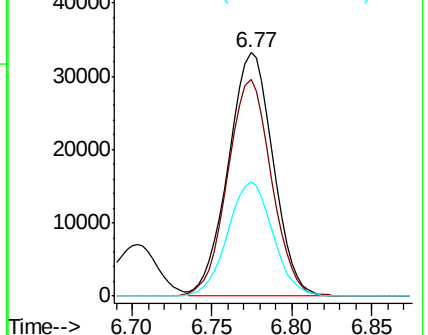


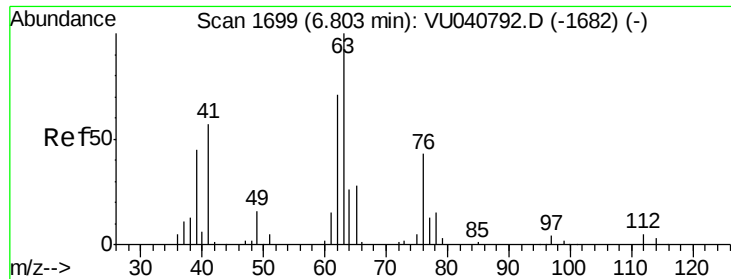
#35
 Methylcyclohexane
 Concen: 4.317 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Tgt Ion: 83 Resp: 63561
 Ion Ratio Lower Upper
 83 100
 55 87.0 70.7 106.1
 98 47.1 38.4 57.6



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.156 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

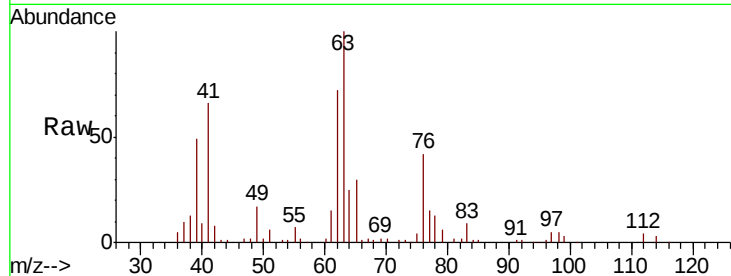
VSTD00518

Tot Ion: 63 Resp: 57539

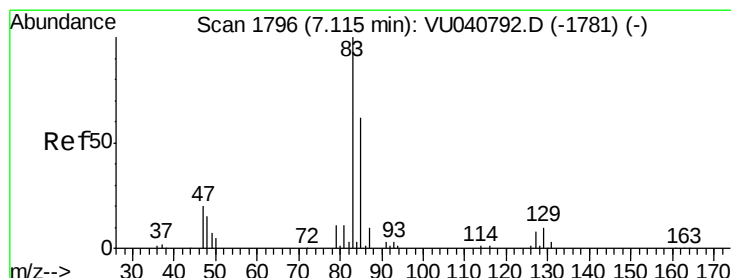
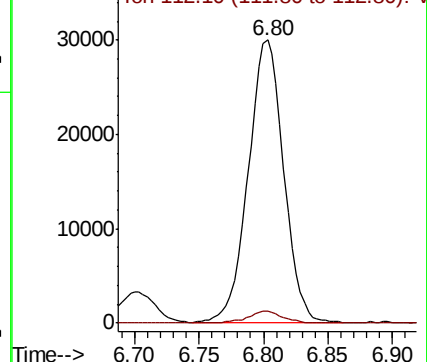
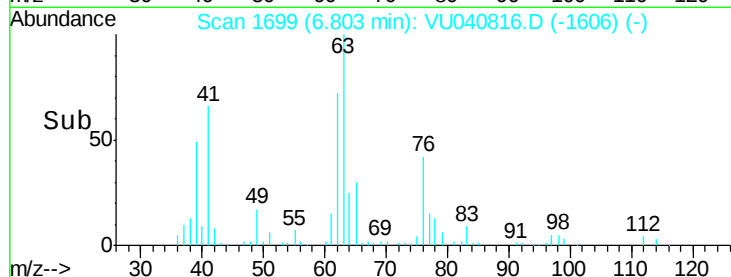
Ion Ratio Lower Upper

63 100

112 4.1 3.5 5.3



Abundance Ion 63.10 (62.80 to 63.80): VU040816.D (-1606) (-)



#38

Bromodichloromethane

Concen: 5.240 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

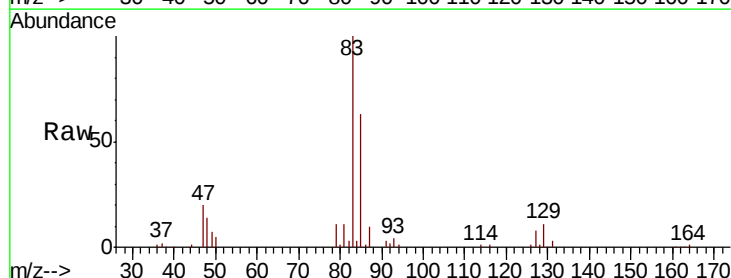
Tgt Ion: 83 Resp: 74755

Ion Ratio Lower Upper

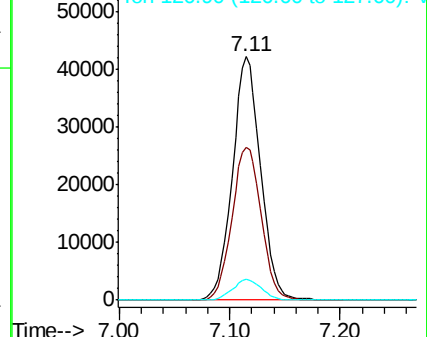
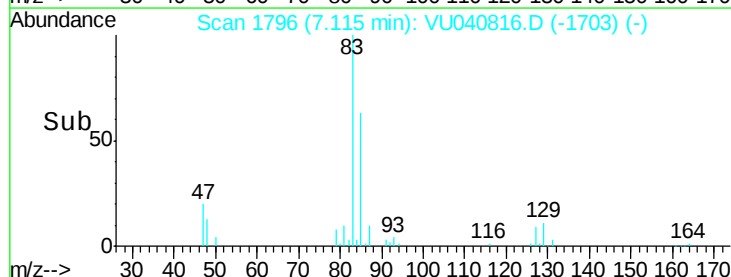
83 100

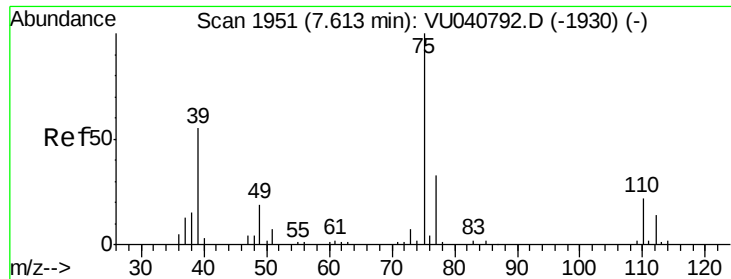
85 62.9 46.0 85.4

127 8.5 6.7 10.1



Abundance Ion 82.95 (82.65 to 83.65): VU040816.D (-1703) (-)

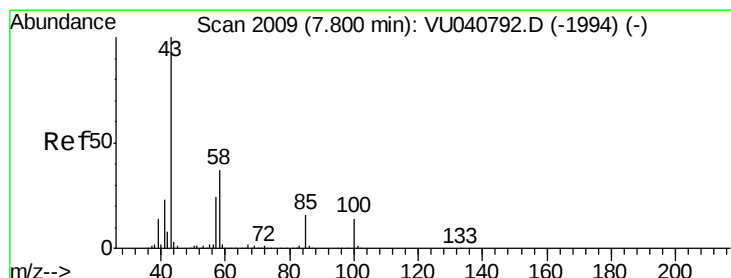
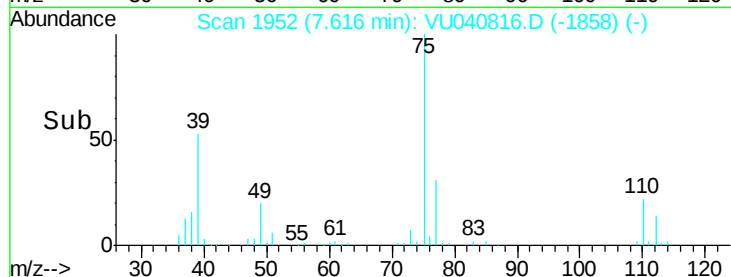
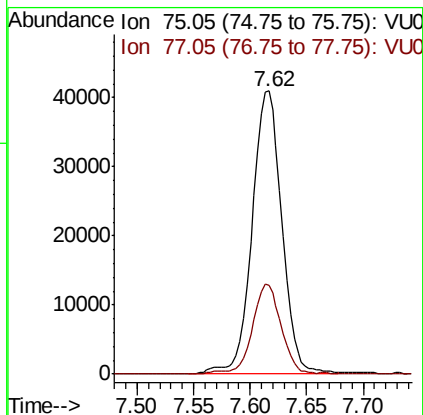
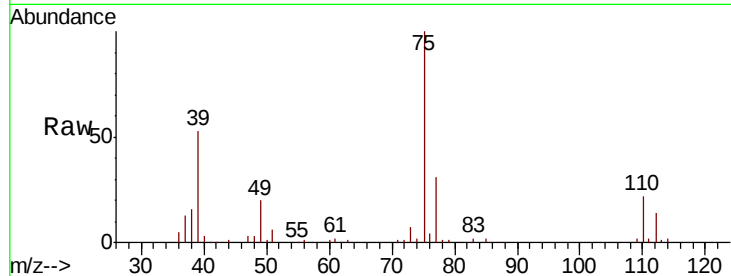




#39
 cis-1,3-Dichloropropene
 Concen: 4.923 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

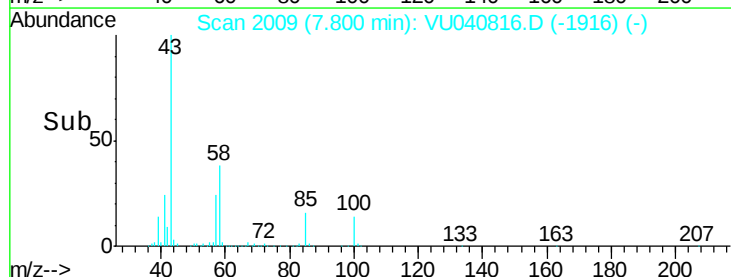
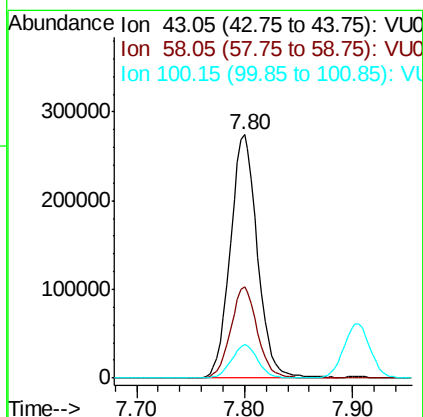
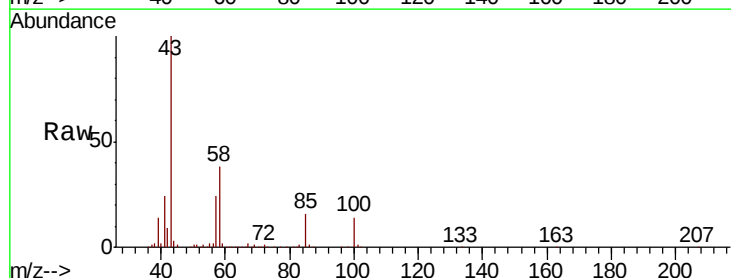
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

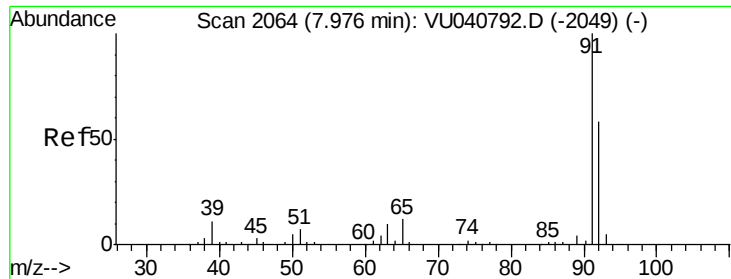
Tot Ion: 75 Resp: 75061
 Ion Ratio Lower Upper
 75 100
 77 31.4 20.5 38.1



#40
 4-Methyl-2-pentanone
 Concen: 54.133 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Tgt Ion: 43 Resp: 481609
 Ion Ratio Lower Upper
 43 100
 58 36.8 29.7 44.5
 100 13.4 10.7 16.1





#42

Toluene

Concen: 5.209 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

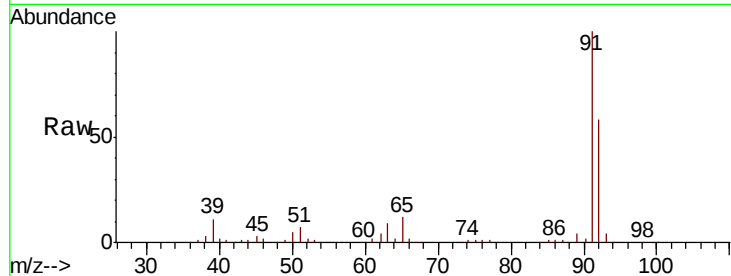
VSTD00518

Tot Ion: 91 Resp: 212599

Ion Ratio Lower Upper

91 100

92 57.8 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.98

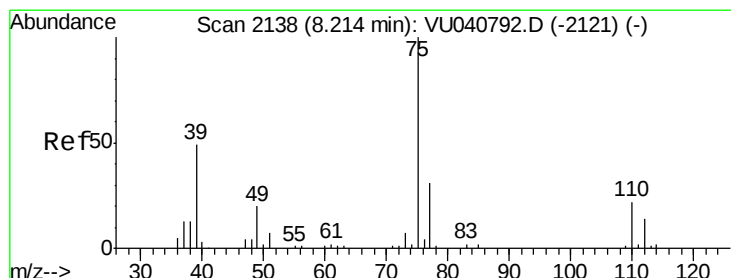
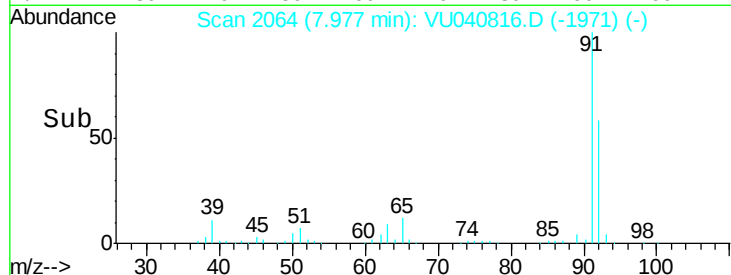
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.118 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU040816.D

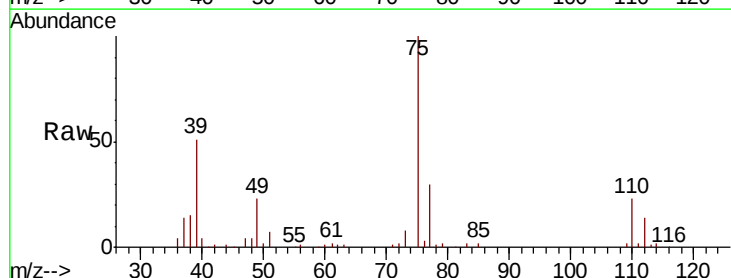
Acq: 19 Oct 2020 19:58

Tgt Ion: 75 Resp: 71830

Ion Ratio Lower Upper

75 100

77 30.1 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.21

50000

40000

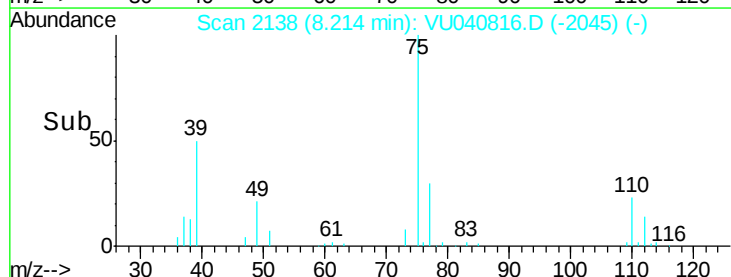
30000

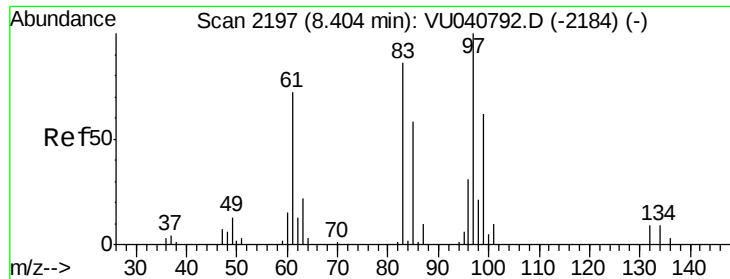
20000

10000

0

Time-->

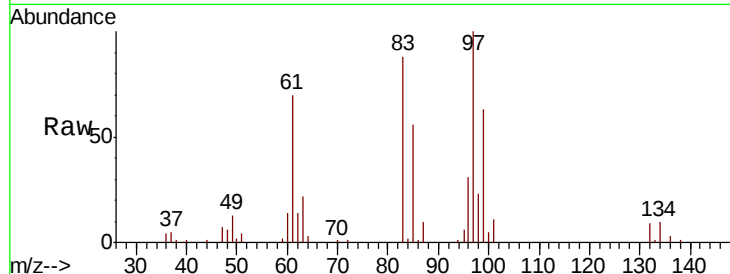




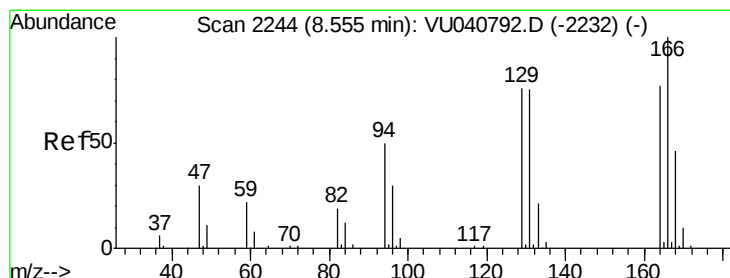
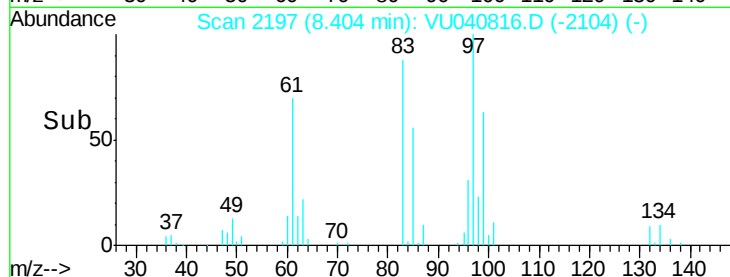
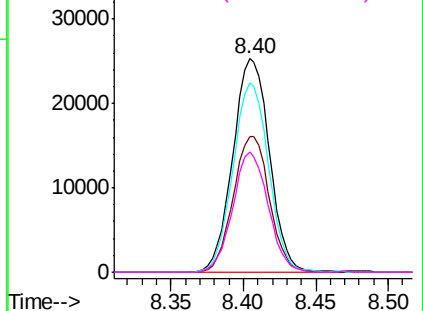
#45
1,1,2-Trichloroethane
Concen: 5.322 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

Tot Ion:	97	Resp:	44476
Ion	Ratio	Lower	Upper
97	100		
99	63.4	44.0	81.6
83	88.5	62.9	116.9
85	56.3	40.3	74.8

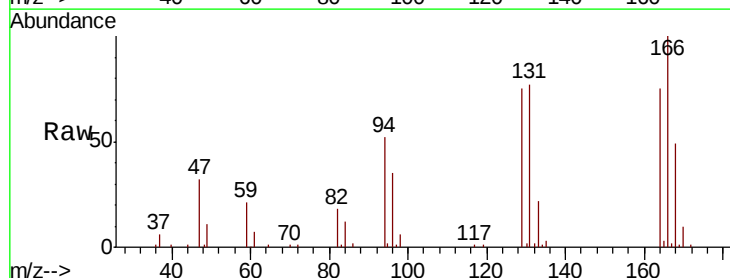


Abundance Ion 96.95 (96.65 to 97.65): VU040816.D (-2104) (-)
Ion 99.05 (98.75 to 99.75): VU040816.D (-2104) (-)
Ion 82.95 (82.65 to 83.65): VU040816.D (-2104) (-)
Ion 85.00 (84.70 to 85.70): VU040816.D (-2104) (-)

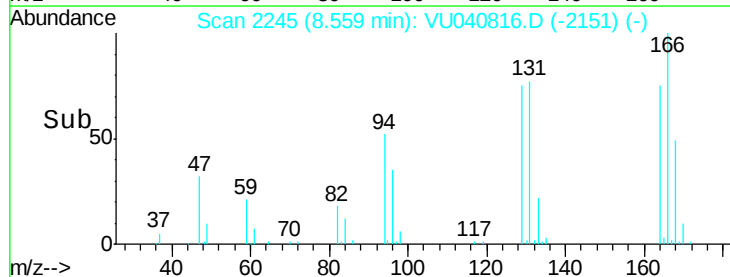
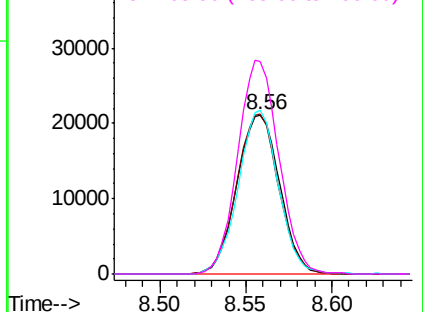


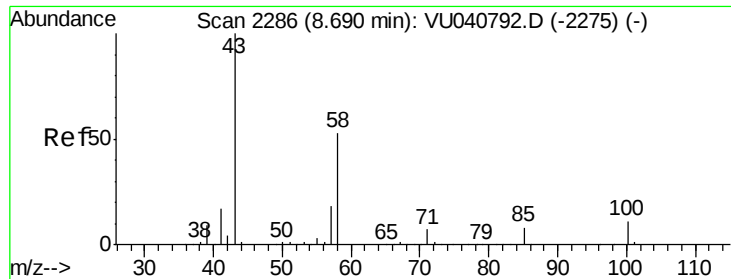
#47
Tetrachloroethene
Concen: 4.929 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion:	164	Resp:	36510
Ion	Ratio	Lower	Upper
164	100		
129	100.7	68.8	127.8
131	103.0	66.7	123.9
166	133.6	83.9	155.7



Abundance Ion 163.90 (163.60 to 164.60): VU040816.D (-2151) (-)
Ion 128.95 (128.65 to 129.65): VU040816.D (-2151) (-)
Ion 130.95 (130.65 to 131.65): VU040816.D (-2151) (-)
Ion 165.90 (165.60 to 166.60): VU040816.D (-2151) (-)

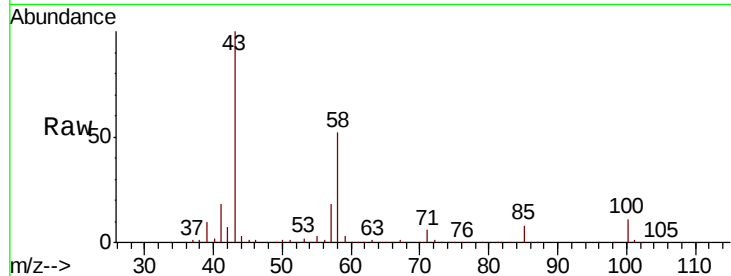




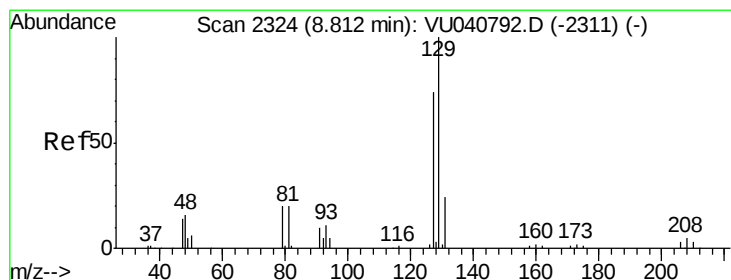
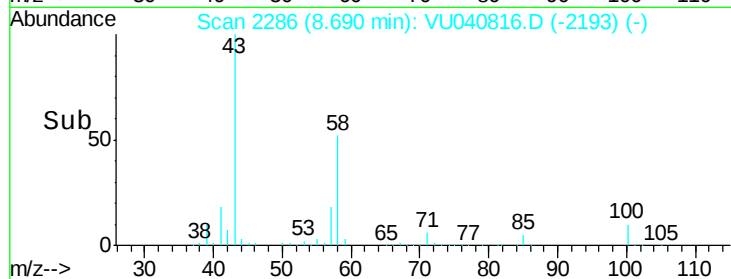
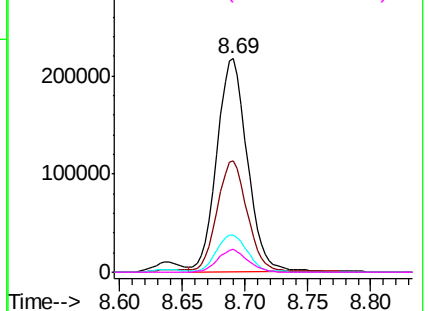
#48
2-Hexanone
Concen: 55.186 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

Tot Ion: 43 Resp: 365539
Ion Ratio Lower Upper
43 100
58 52.5 41.0 61.6
57 17.8 14.4 21.6
100 10.5 8.6 13.0

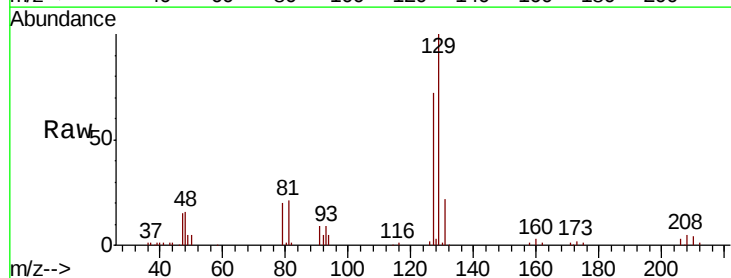


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

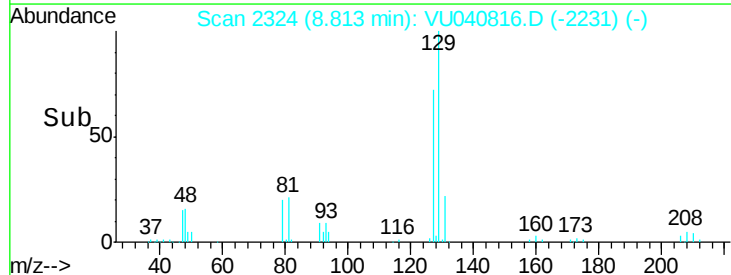
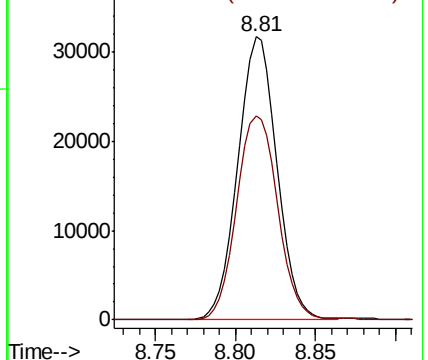


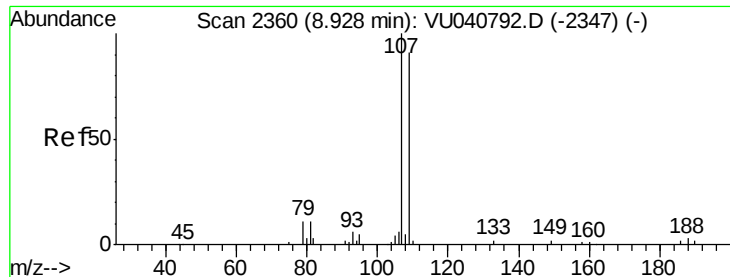
#49
Dibromochloromethane
Concen: 5.496 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion: 129 Resp: 52854
Ion Ratio Lower Upper
129 100
127 72.3 55.8 103.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 5.079 ug/L

RT: 8.93 min Scan# 2360

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

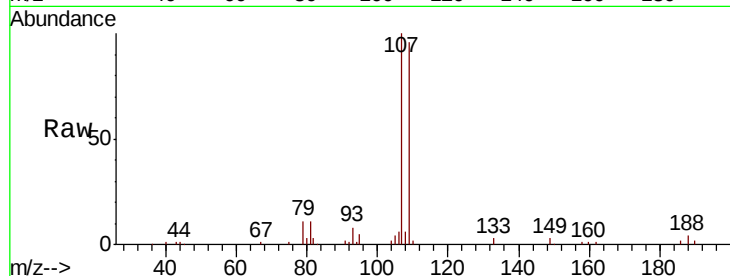
Tot Ion:107 Resp: 40266

Ion Ratio Lower Upper

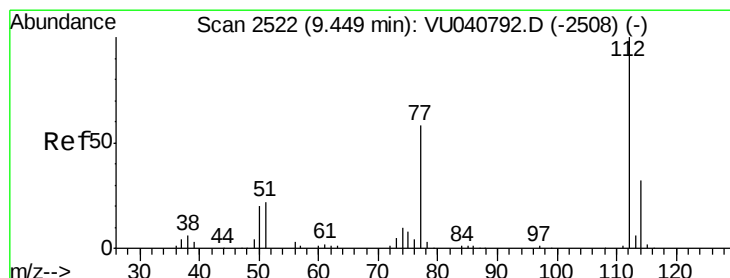
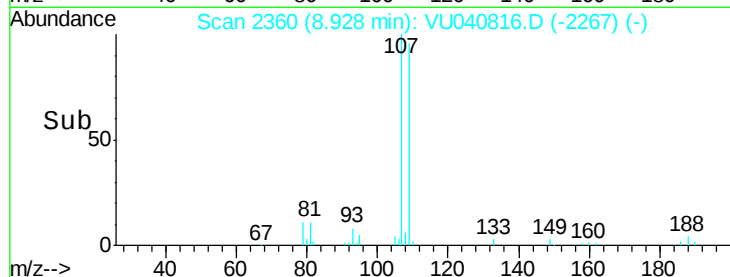
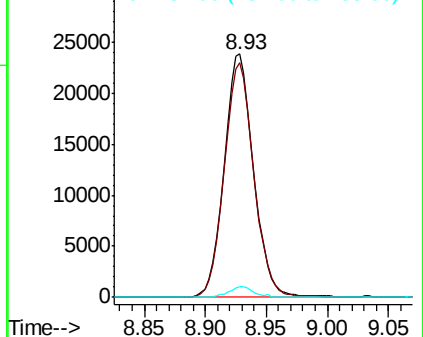
107 100

109 96.2 65.7 121.9

188 4.3 3.0 4.4



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 5.202 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

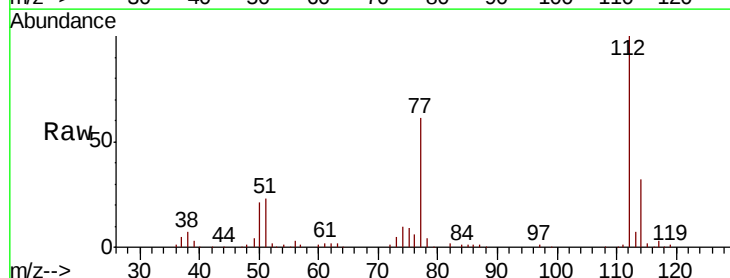
Tgt Ion:112 Resp: 139854

Ion Ratio Lower Upper

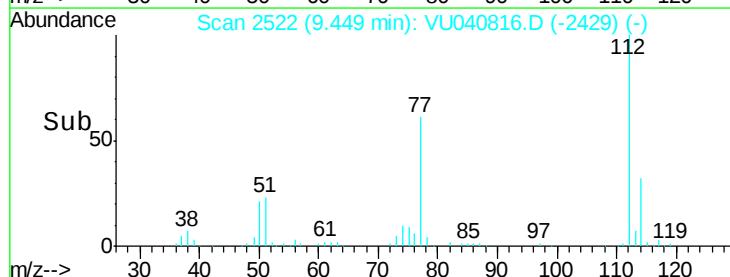
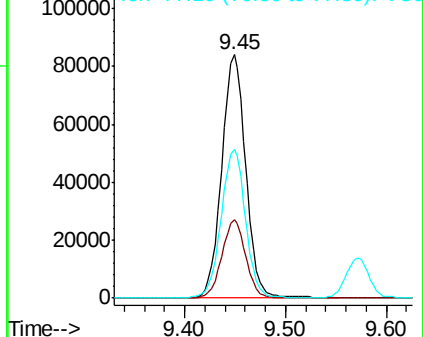
112 100

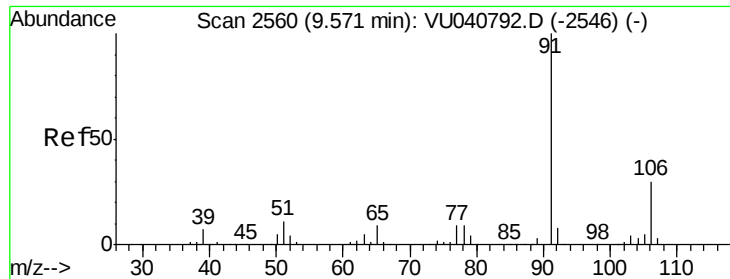
114 32.0 23.1 42.9

77 61.2 50.3 75.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.076 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

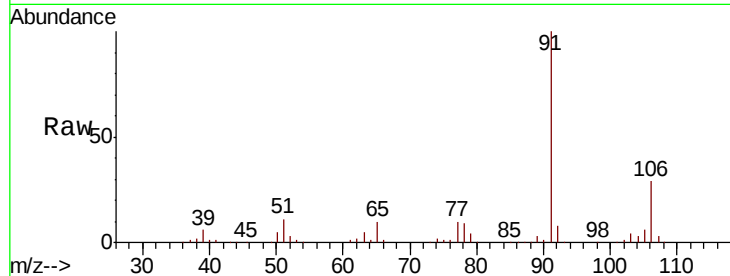
VSTD00518

Tot Ion: 91 Resp: 224175

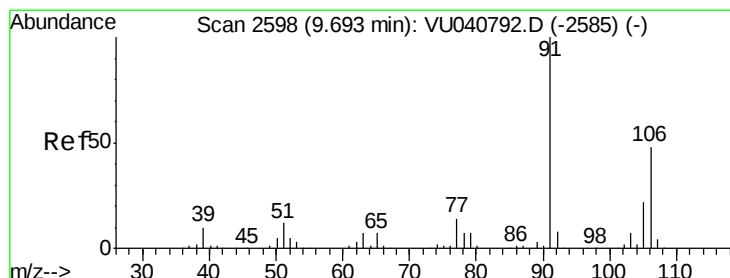
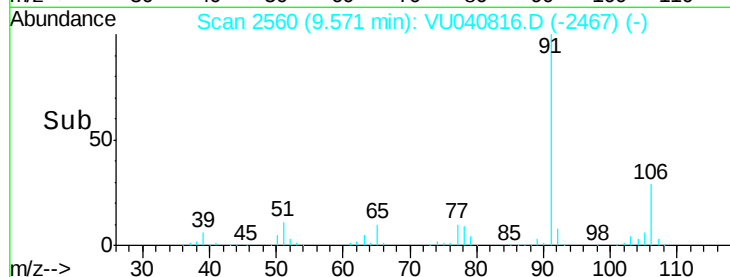
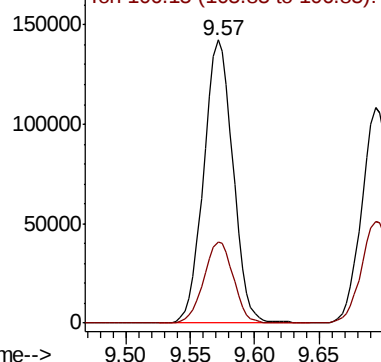
Ion Ratio Lower Upper

91 100

106 28.9 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU040816.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.299 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040816.D

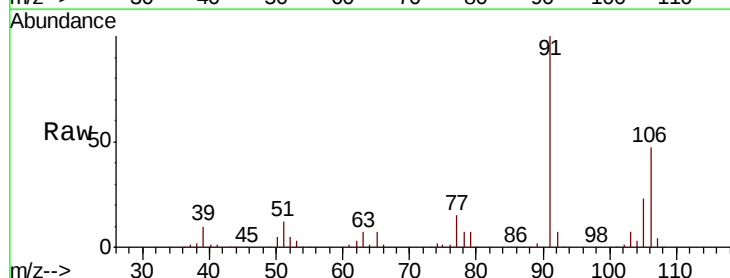
Acq: 19 Oct 2020 19:58

Tgt Ion: 106 Resp: 85305

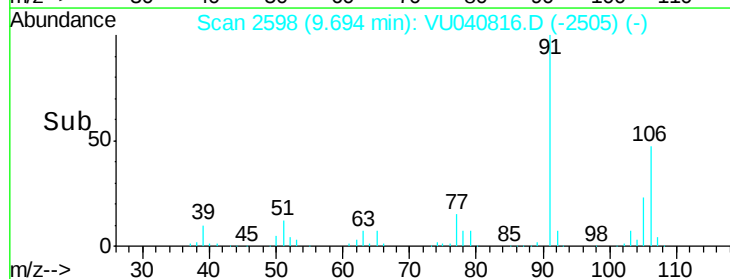
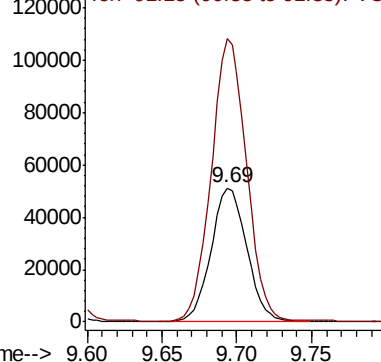
Ion Ratio Lower Upper

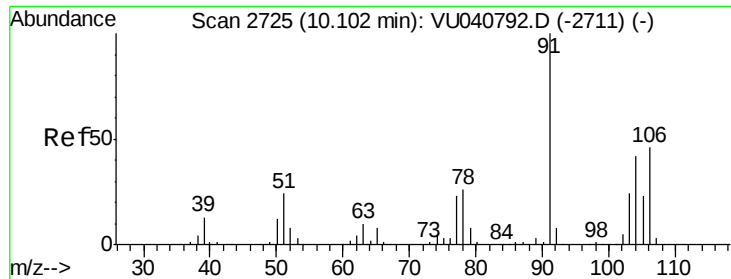
106 100

91 211.1 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040816.D (-2598) (-)

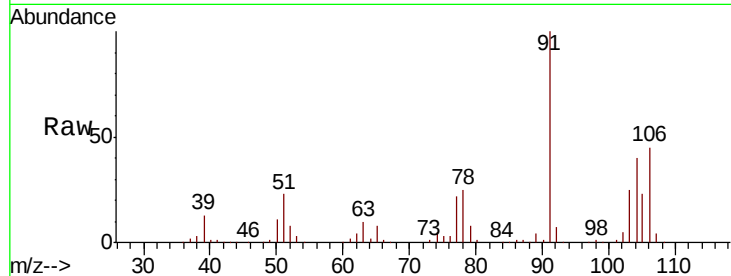




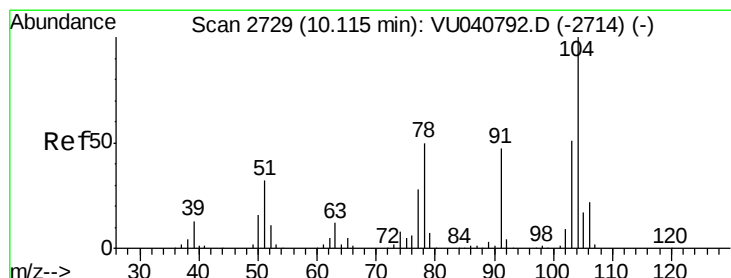
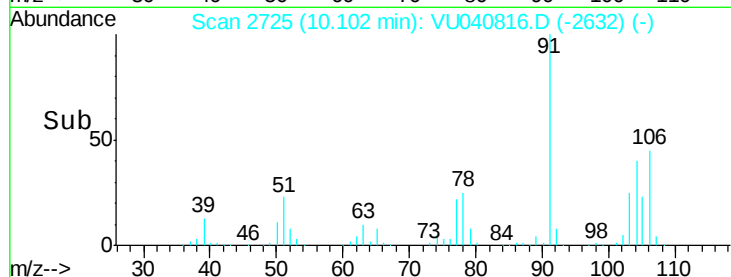
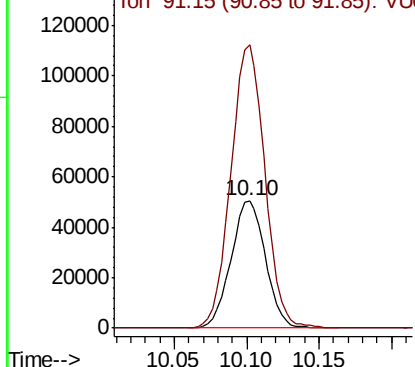
#54
o-Xylene
Concen: 5.357 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

Tot Ion:106 Resp: 82933
Ion Ratio Lower Upper
106 100
91 221.8 160.2 297.4

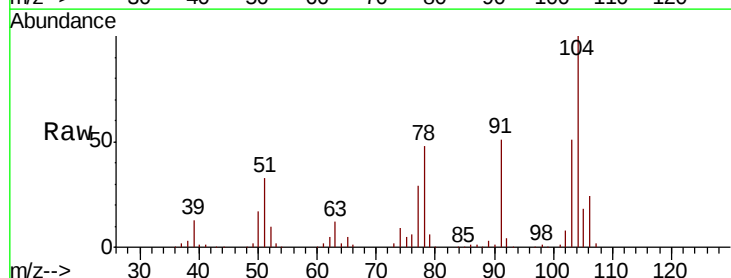


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

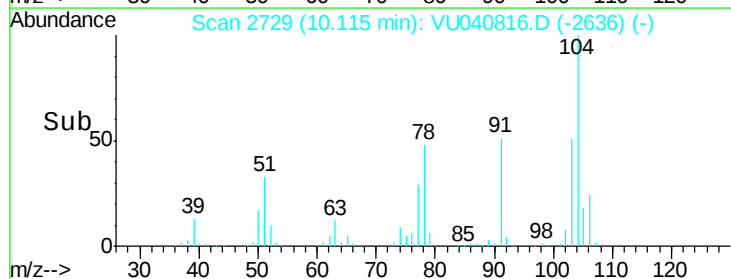
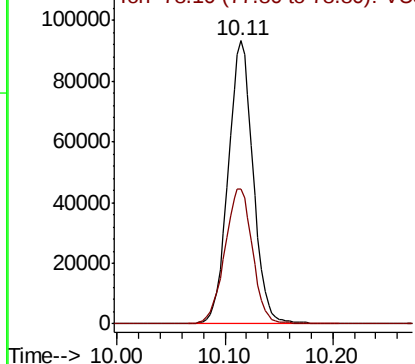


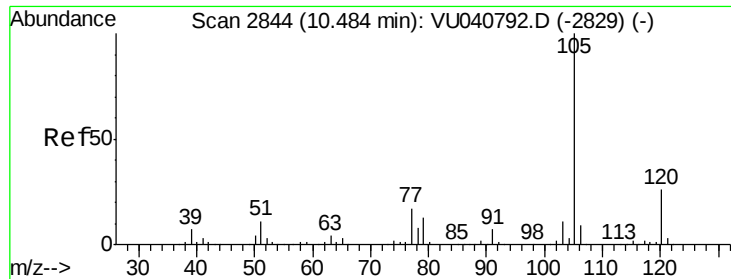
#55
Styrene
Concen: 5.597 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion:104 Resp: 150472
Ion Ratio Lower Upper
104 100
78 47.9 34.6 64.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.290 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

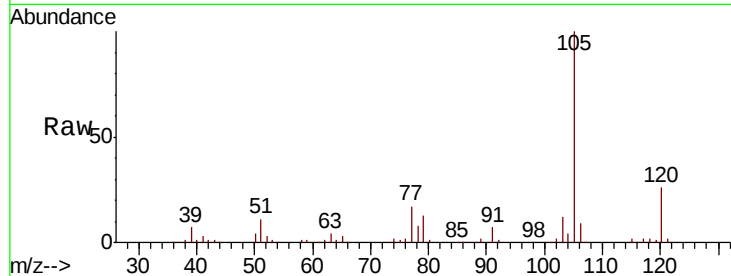
Tot Ion:105 Resp: 220459

Ion Ratio Lower Upper

105 100

120 26.3 20.6 30.8

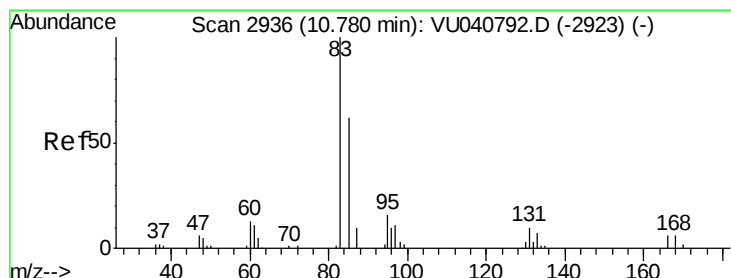
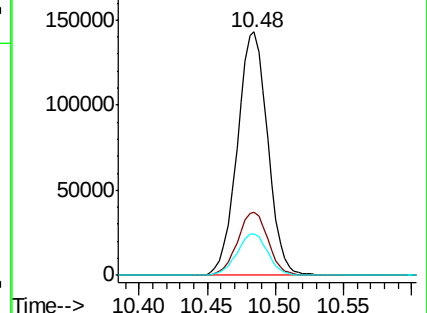
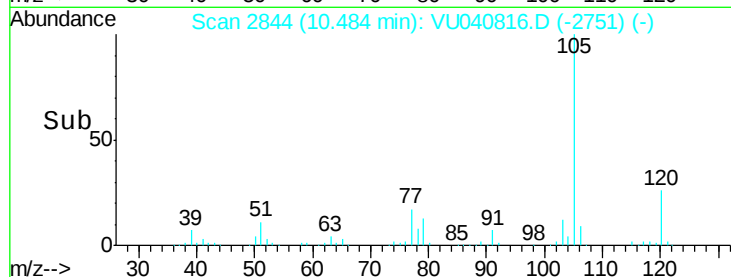
77 17.4 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.483 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

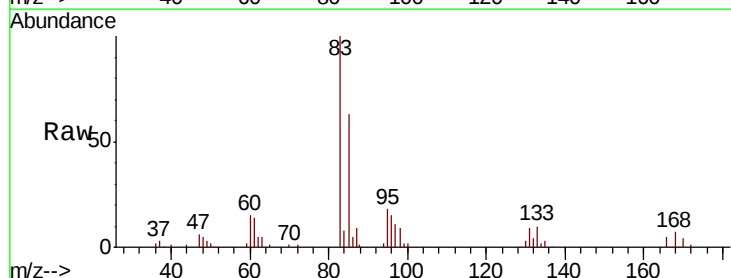
Tgt Ion: 83 Resp: 60161

Ion Ratio Lower Upper

83 100

85 62.7 45.6 84.6

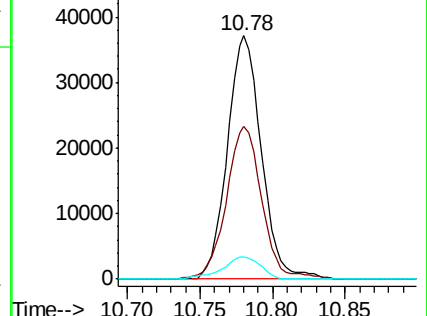
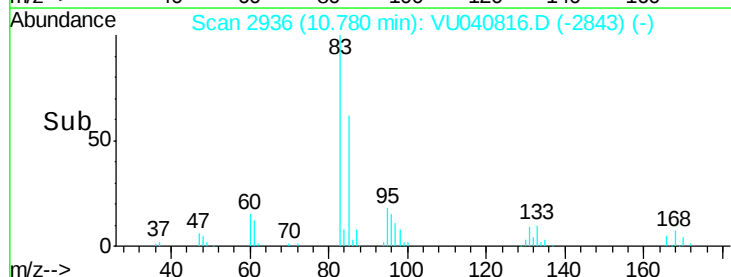
131 9.0 7.1 10.7

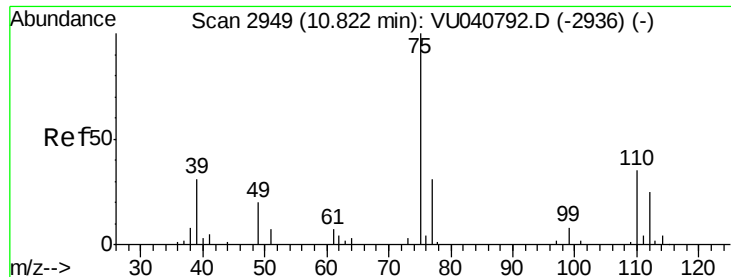


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

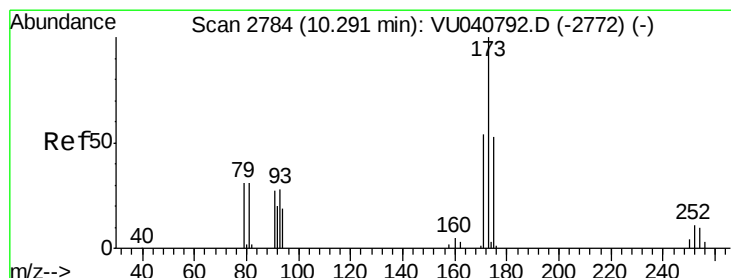
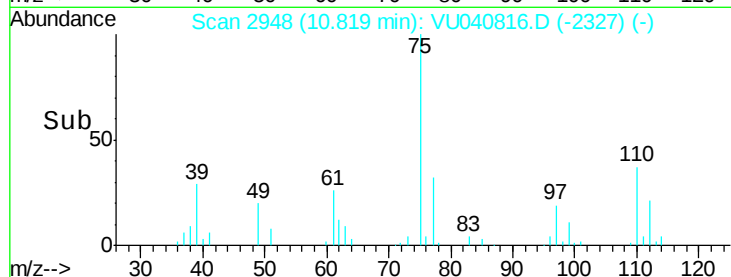
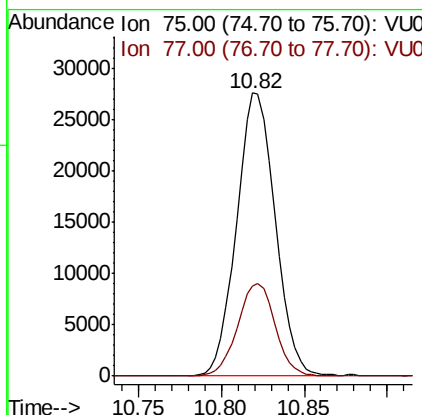
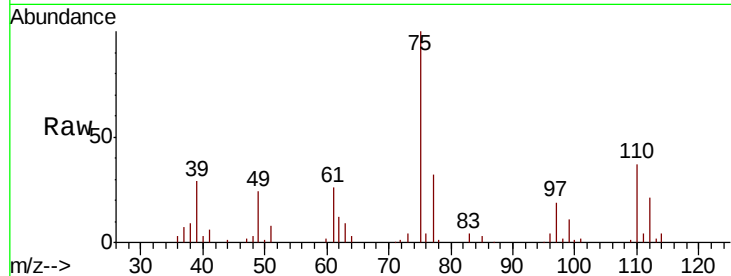




#59
 1,2,3-Trichloropropane
 Concen: 5.482 ug/L
 RT: 10.82 min Scan# 2948
 Delta R.T. -0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

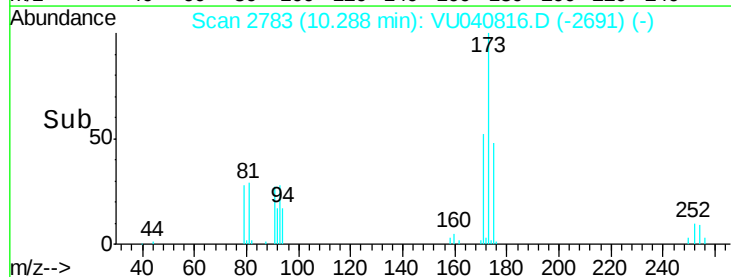
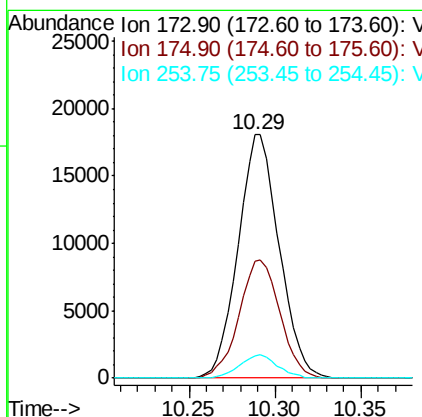
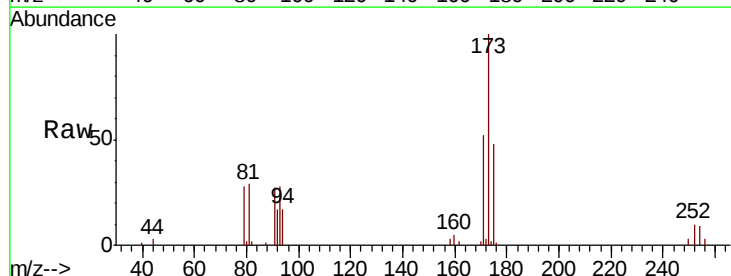
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

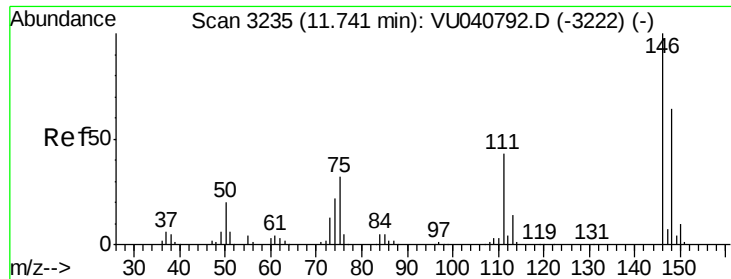
Tot Ion: 75 Resp: 44936
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.4 39.6



#61
 Bromoform
 Concen: 5.096 ug/L
 RT: 10.29 min Scan# 2783
 Delta R.T. -0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Tgt Ion: 173 Resp: 30029
 Ion Ratio Lower Upper
 173 100
 175 48.0 37.4 56.0
 254 8.6 7.4 11.2

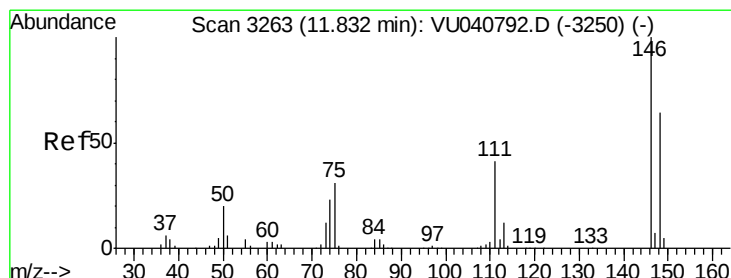
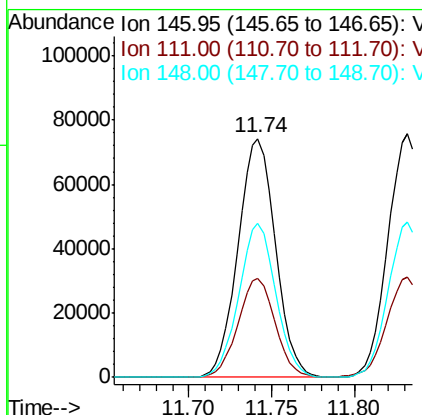
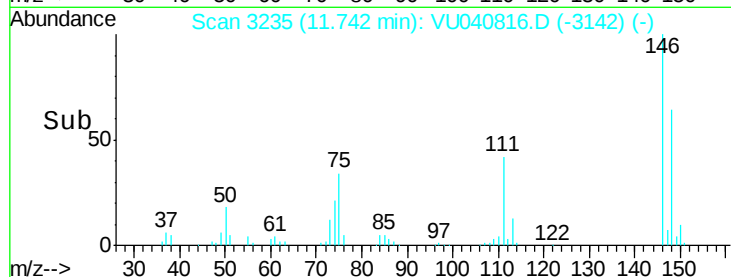
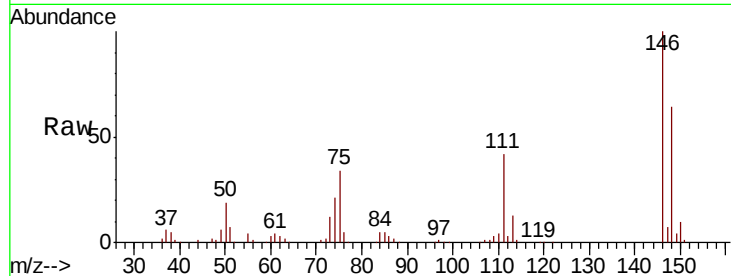




#62
 1,3-Dichlorobenzene
 Concen: 5.194 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

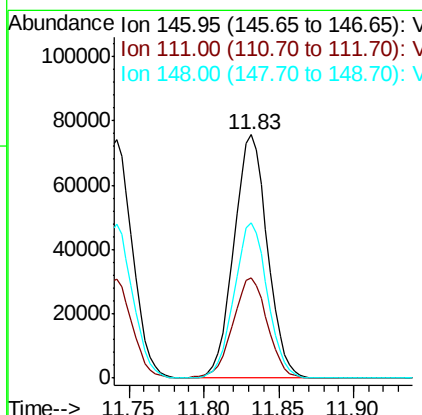
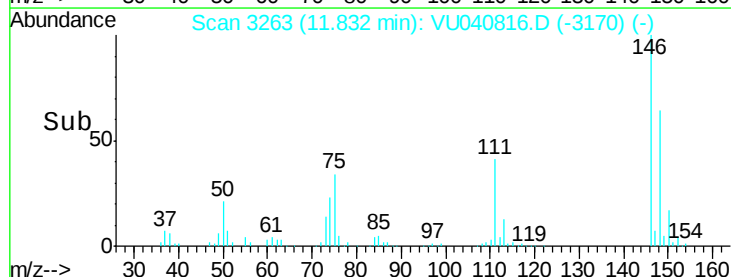
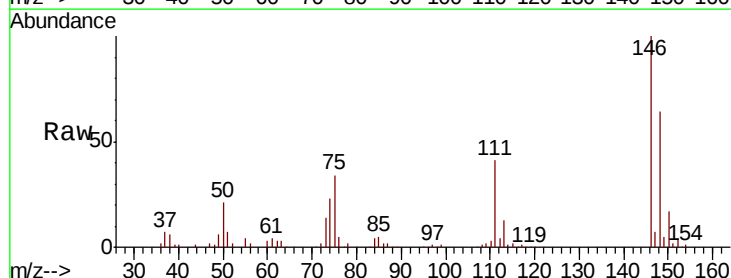
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

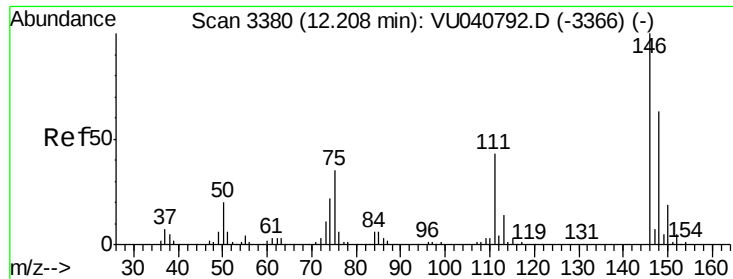
Tot Ion:146 Resp: 116862
 Ion Ratio Lower Upper
 146 100
 111 41.6 28.8 53.6
 148 64.4 44.4 82.4



#63
 1,4-Dichlorobenzene
 Concen: 5.102 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Tgt Ion:146 Resp: 118370
 Ion Ratio Lower Upper
 146 100
 111 41.2 28.4 52.8
 148 63.8 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 5.219 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

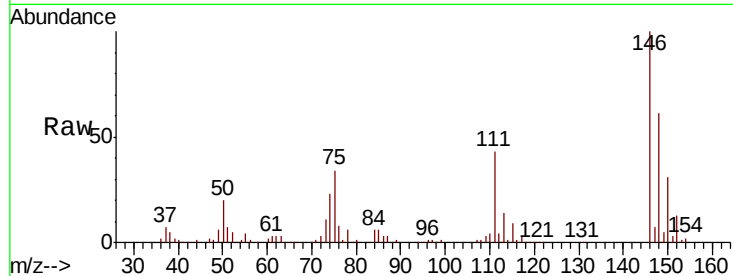
Tot Ion:146 Resp: 114799

Ion Ratio Lower Upper

146 100

111 43.3 34.4 51.6

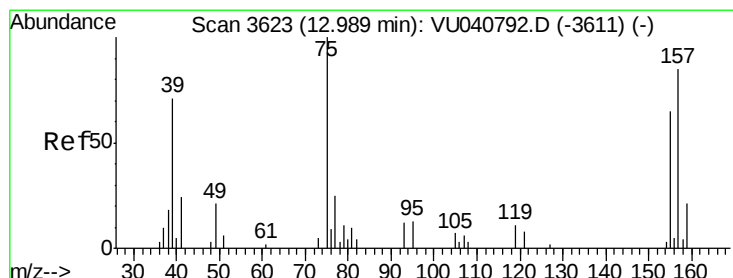
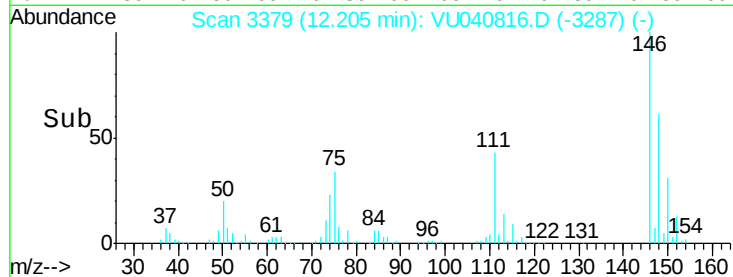
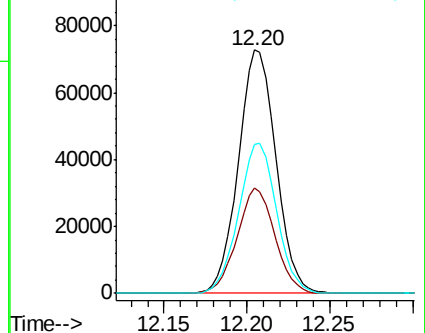
148 61.0 50.0 75.0



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.973 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040816.D

Acq: 19 Oct 2020 19:58

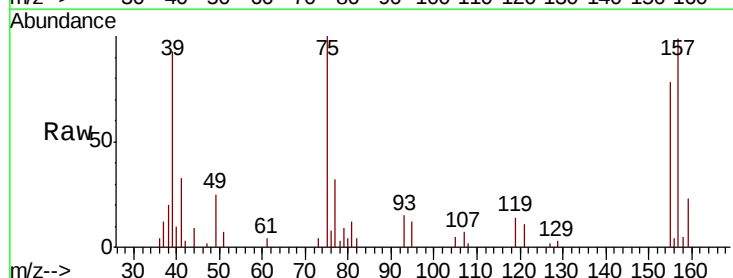
Tgt Ion: 75 Resp: 9578

Ion Ratio Lower Upper

75 100

155 78.2 53.8 80.6

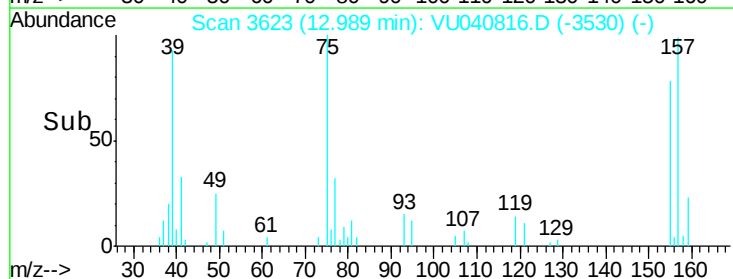
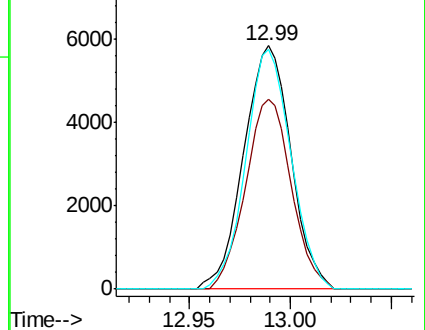
157 98.7 74.6 112.0

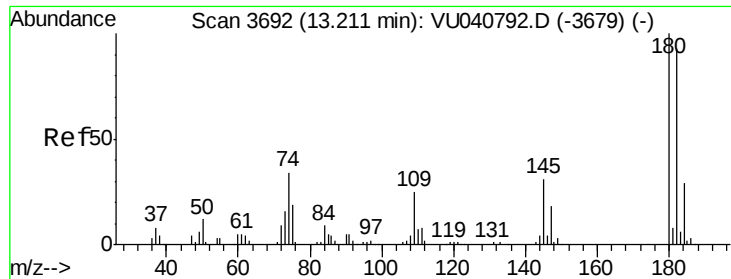


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

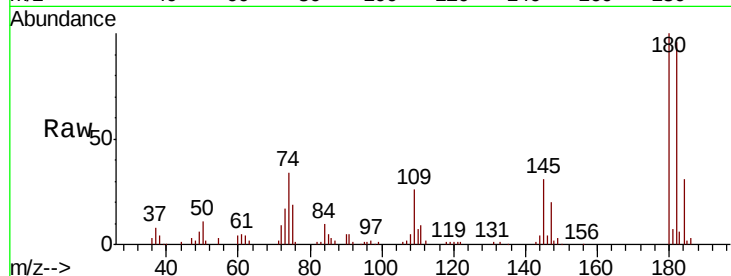




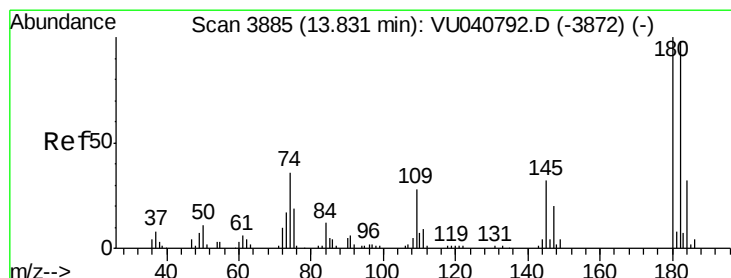
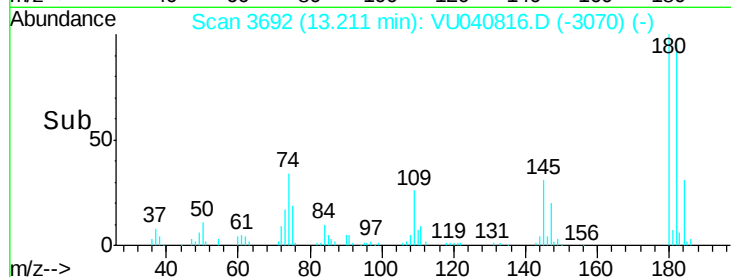
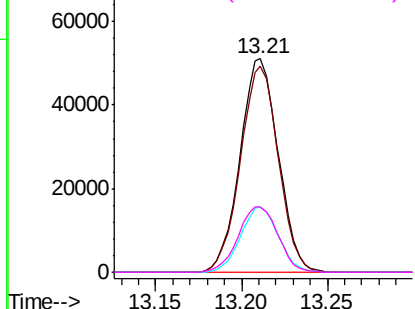
#67
 1,3,5-Trichlorobenzene
 Concen: 4.932 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Tot Ion:180 Resp: 78734
 Ion Ratio Lower Upper
 180 100
 182 95.8 77.0 115.4
 184 30.2 24.5 36.7
 145 31.8 25.9 38.9

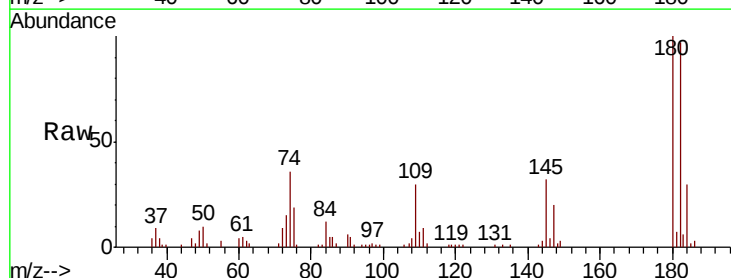


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

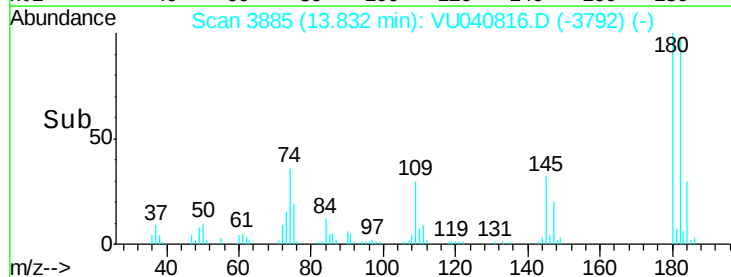
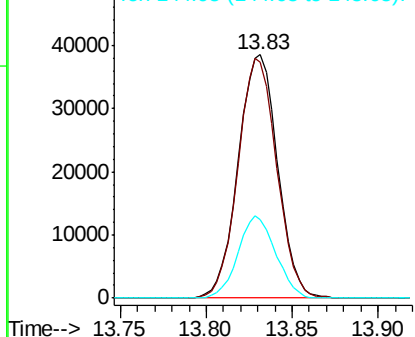


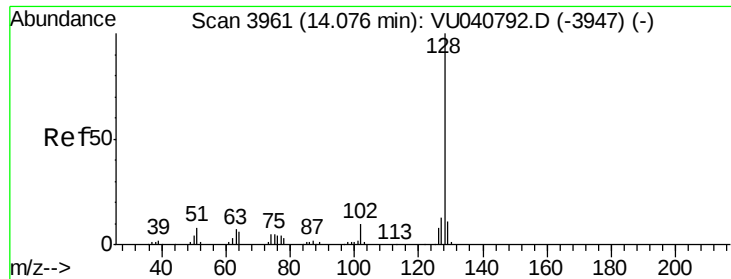
#68
 1,2,4-trichlorobenzene
 Concen: 4.984 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040816.D
 Acq: 19 Oct 2020 19:58

Tgt Ion:180 Resp: 61473
 Ion Ratio Lower Upper
 180 100
 182 96.7 78.8 118.2
 145 32.2 26.1 39.1



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

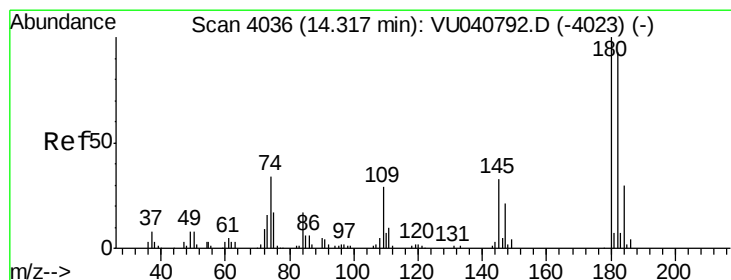
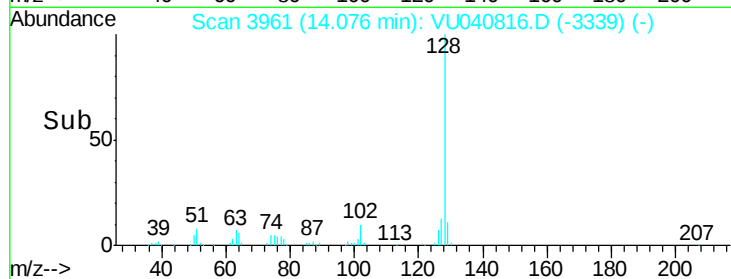
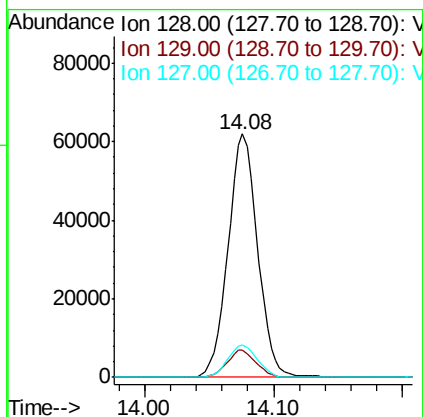
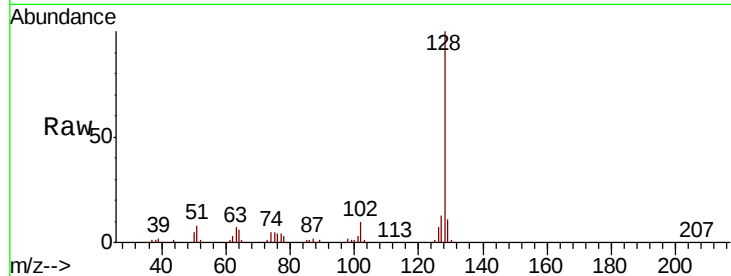




#69
Naphthalene
Concen: 4.888 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

Tot Ion:128 Resp: 98634
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.4
127 13.3 10.2 15.4



#70
1,2,3-Trichlorobenzene
Concen: 5.126 ug/L
RT: 14.32 min Scan# 4036
Delta R.T. 0.00 min
Lab File: VU040816.D
Acq: 19 Oct 2020 19:58

Tgt Ion:180 Resp: 58720
Ion Ratio Lower Upper
180 100
182 97.8 75.8 113.8
145 34.4 27.4 41.2

