

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071420\
 Data File : VU039493.D
 Acq On : 14 Jul 2020 18:34
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Quant Time: Jul 15 06:25:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 15 06:21:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	91093	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	89645	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	44510	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	29559	5.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.00%
7) Chloroethane-d5	1.93	69	33822	6.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	125.20%
11) 1,1-Dichloroethene-d2	2.58	63	58136	5.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	112.00%
20) 2-Butanone-d5	4.65	46	122518	50.72	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.44%
24) Chloroform-d	5.09	84	57608	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
26) 1,2-Dichloroethane-d4	5.72	65	39509	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.00%
32) Benzene-d6	5.75	84	118630	5.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.00%
36) 1,2-Dichloropropane-d6	6.71	67	40458	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.91	98	108661	5.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	116.20%
43) trans-1,3-Dichloropropene-	8.19	79	17124	5.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.20%
46) 2-Hexanone-d5	8.64	63	95757	48.21	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.42%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	37518	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	43097	5.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	30001	5.434	ug/L 97
3) Chloromethane	1.53	50	32440	4.850	ug/L 99
5) Vinyl chloride	1.61	62	35137	4.731	ug/L 98
6) Bromomethane	1.87	94	21467	6.711	ug/L 90
8) Chloroethane	1.94	64	29460	5.490	ug/L 96
9) Trichlorofluoromethane	2.15	101	63092	4.892	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	26232	4.956	ug/L 99
12) 1,1-Dichloroethene	2.59	96	25721	4.748	ug/L 91
13) Acetone	2.66	43	63381	48.608	ug/L 99
14) Carbon disulfide	2.81	76	81914	4.292	ug/L 99
15) Methyl Acetate	2.97	43	17570	5.101	ug/L 94
16) Methylene chloride	3.06	84	32928	4.832	ug/L 97
17) Methyl tert-butyl Ether	3.38	73	85485	5.008	ug/L 97
18) trans-1,2-Dichloroethene	3.37	96	28751	4.794	ug/L 98
19) 1,1-Dichloroethane	3.89	63	57734	4.920	ug/L 98
21) 2-Butanone	4.73	43	114504	49.200	ug/L 99
22) cis-1,2-Dichloroethene	4.69	96	32911	4.894	ug/L 99

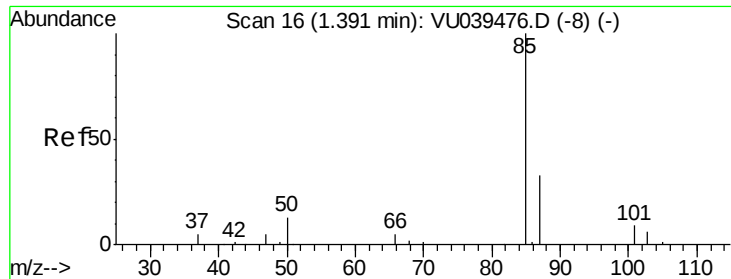
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071420\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	14958	4.896	ug/L	88
25) Chloroform	5.11	83	66865	5.642	ug/L	97
27) 1,2-Dichloroethane	5.81	62	44753	5.221	ug/L	99
29) 1,1,1-Trichloroethane	5.34	97	50625	4.795	ug/L	98
30) Cyclohexane	5.41	56	48543	4.367	ug/L	99
31) Carbon tetrachloride	5.54	117	41043	4.556	ug/L	100
33) Benzene	5.79	78	124626	4.650	ug/L	100
34) Trichloroethene	6.56	95	32040	4.624	ug/L	97
35) Methylcyclohexane	6.78	83	47787	4.305	ug/L	98
37) 1,2-Dichloropropane	6.81	63	35159	4.812	ug/L	100
38) Bromodichloromethane	7.12	83	43569	4.670	ug/L	98
39) cis-1,3-Dichloropropene	7.62	75	50931	4.611	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	294531	48.324	ug/L	98
42) Toluene	7.98	91	135612	4.725	ug/L	98
44) trans-1,3-Dichloropropene	8.22	75	45313	4.624	ug/L	100
45) 1,1,2-Trichloroethane	8.41	97	25104	4.784	ug/L	94
47) Tetrachloroethene	8.56	164	22980	4.768	ug/L	98
48) 2-Hexanone	8.69	43	214097	47.640	ug/L	99
49) Dibromochloromethane	8.82	129	30534	4.804	ug/L	99
50) 1,2-Dibromoethane	8.93	107	26023	4.881	ug/L	99
51) Chlorobenzene	9.45	112	84690	4.829	ug/L	99
52) Ethylbenzene	9.57	91	149147	4.702	ug/L	99
53) m,p-Xylene	9.70	106	54209	4.536	ug/L	94
54) o-Xylene	10.10	106	55668	4.785	ug/L	97
55) Styrene	10.12	104	93803	4.634	ug/L	97
56) Isopropylbenzene	10.48	105	146798	4.665	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	35541	4.866	ug/L	97
59) 1,2,3-Trichloropropane	10.82	75	25476	4.731	ug/L	97
61) Bromoform	10.29	173	17261	4.601	ug/L	99
62) 1,3-Dichlorobenzene	11.74	146	65012	4.661	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	64567	4.614	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	65800	4.706	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.99	75	5516	4.466	ug/L	90
67) 1,3,5-Trichlorobenzene	13.21	180	46020	4.409	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	39842	4.461	ug/L	96
69) Naphthalene	14.08	128	71212	3.962	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	37476	4.528	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.434 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU039493.D

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Instrument :

MSVOA_U

ClientSampleId :

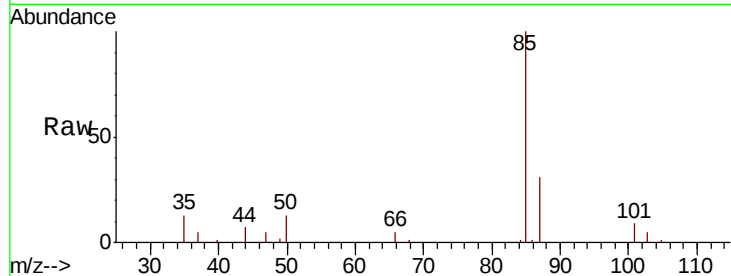
VSTD00520

Tot Ion: 85 Resp: 30001

Ion Ratio Lower Upper

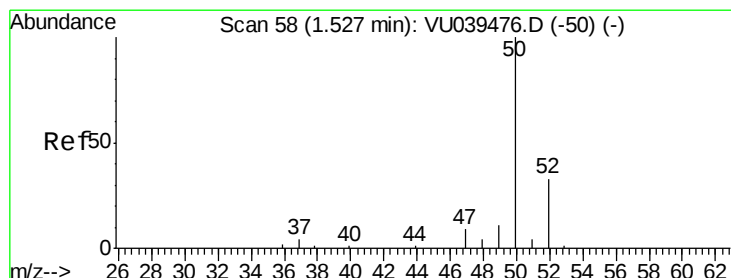
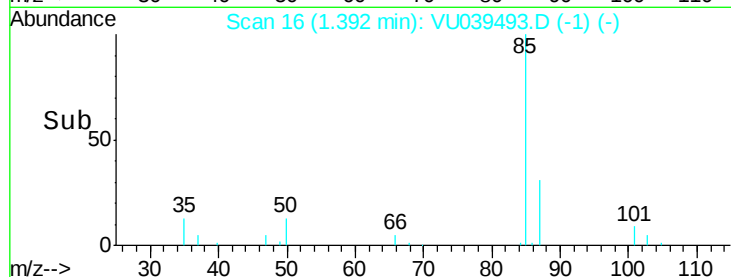
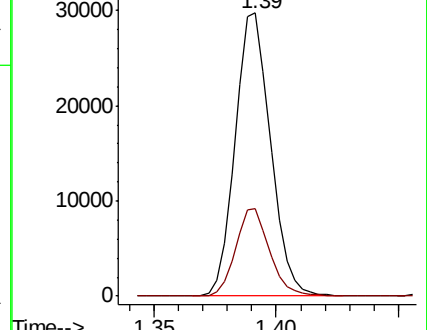
85 100

87 29.7 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039476.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039476.D (-8) (-)



#3

Chloromethane

Concen: 4.850 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039493.D

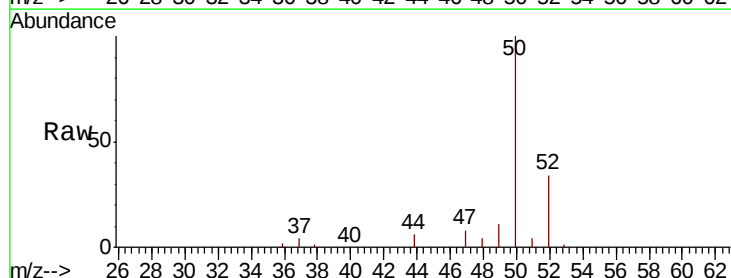
Acq: 14 Jul 2020 18:34

Tgt Ion: 50 Resp: 32440

Ion Ratio Lower Upper

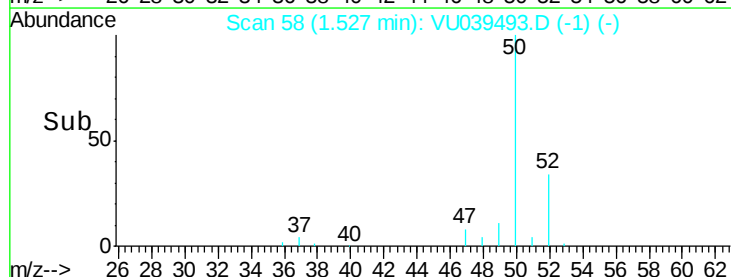
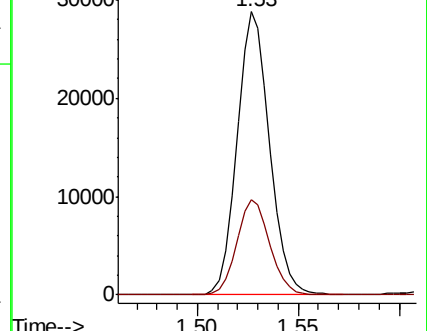
50 100

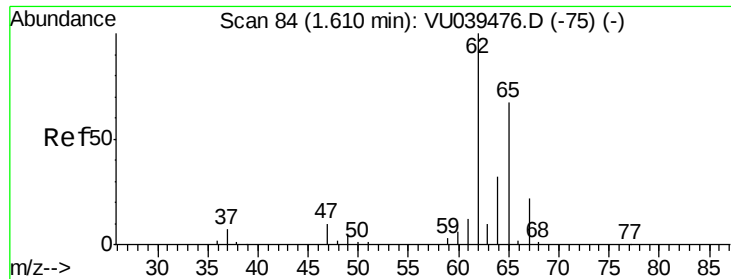
52 33.6 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU039476.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU039476.D (-50) (-)





#5

Vinyl chloride

Concen: 4.731 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

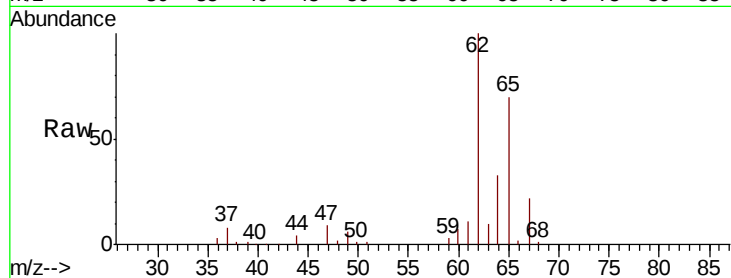
VSTD00520

Tot Ion: 62 Resp: 35137

Ion Ratio Lower Upper

62 100

64 33.0 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU039493.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU039493.D (-1) (-)

1.61

30000

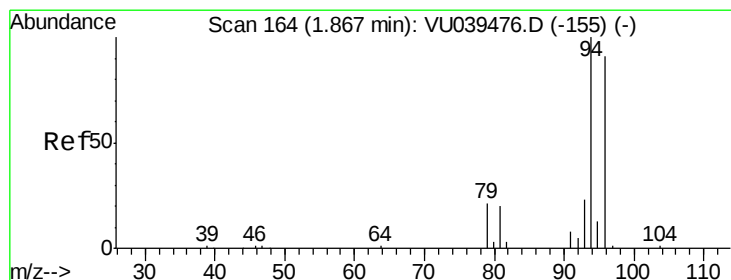
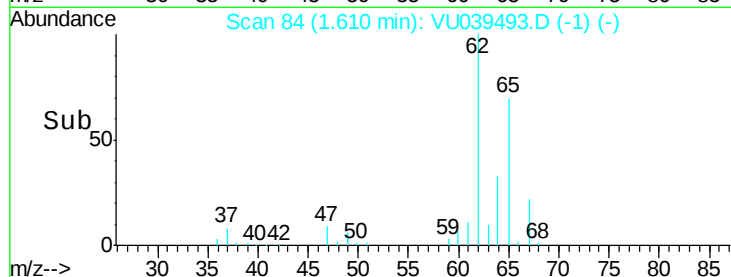
20000

10000

0

Time-->

1.55 1.60 1.65



#6

Bromomethane

Concen: 6.711 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039493.D

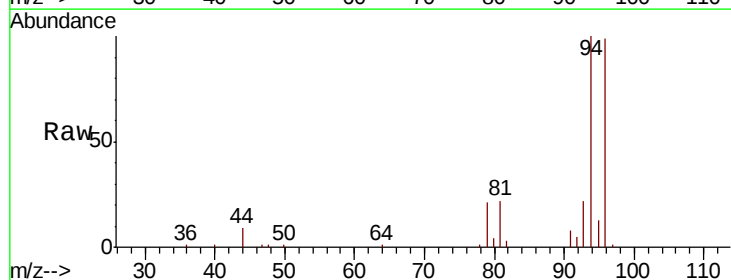
Acq: 14 Jul 2020 18:34

Tgt Ion: 94 Resp: 21467

Ion Ratio Lower Upper

94 100

96 98.9 62.7 116.5



Abundance Ion 94.00 (93.70 to 94.70): VU039493.D (-71) (-)

Ion 96.00 (95.70 to 96.70): VU039493.D (-71) (-)

1.87

15000

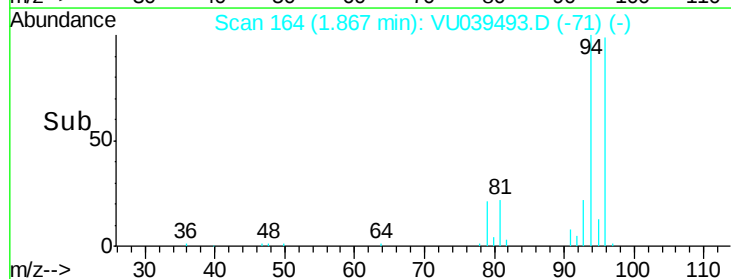
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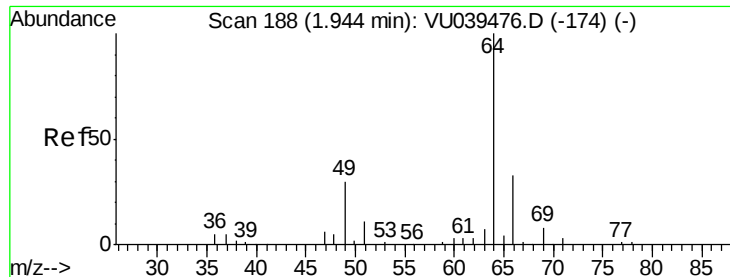
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Time-->

1.85 1.90

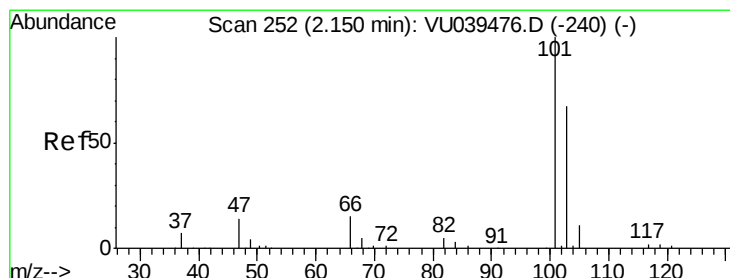
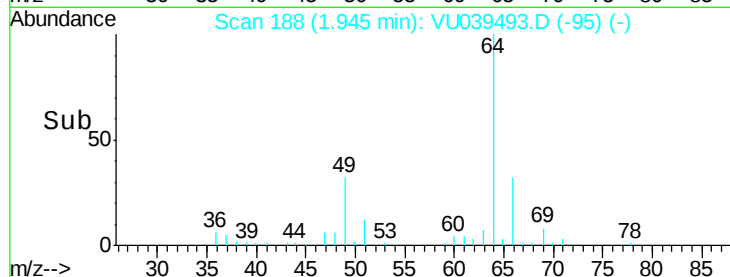
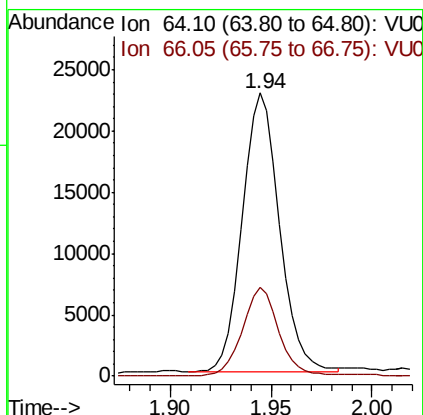
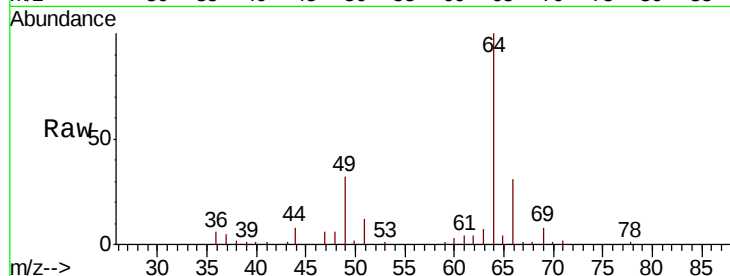




#8
Chloroethane
Concen: 5.490 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

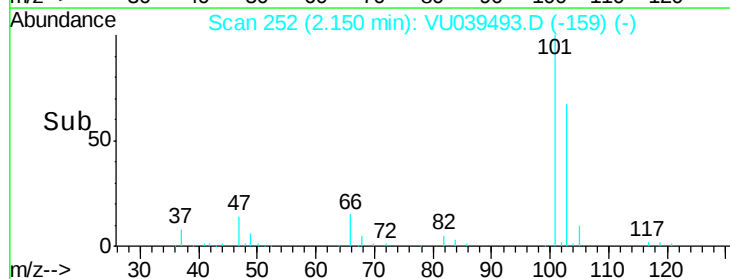
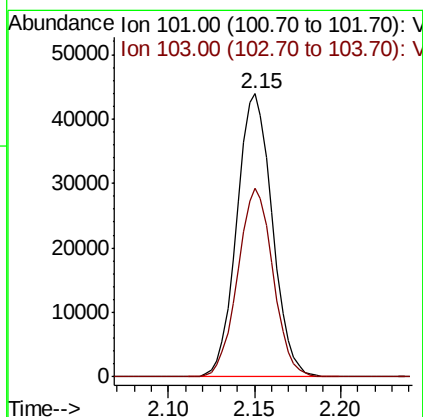
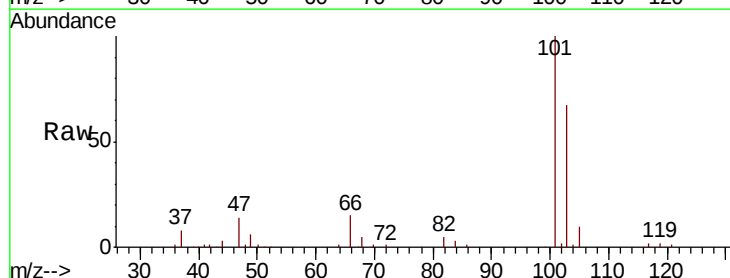
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

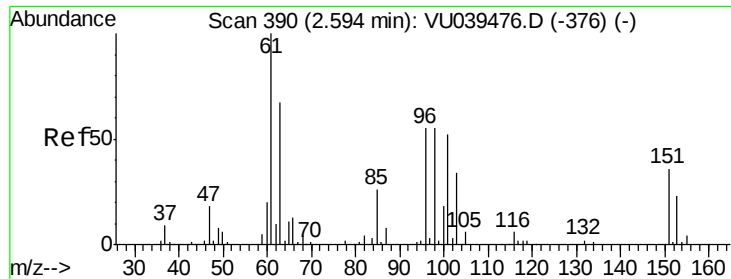
Tot Ion: 64 Resp: 29460
Ion Ratio Lower Upper
64 100
66 31.4 23.5 43.7



#9
Trichlorofluoromethane
Concen: 4.892 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Tgt Ion: 101 Resp: 63092
Ion Ratio Lower Upper
101 100
103 66.4 50.6 76.0





#10

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

Concen: 4.956 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

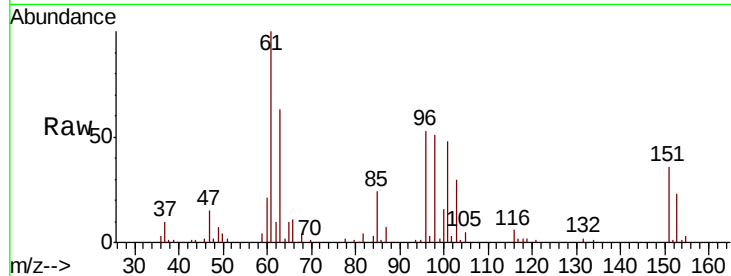
Tot Ion:101 Resp: 26232

Ion Ratio Lower Upper

101 100

85 49.7 38.9 58.3

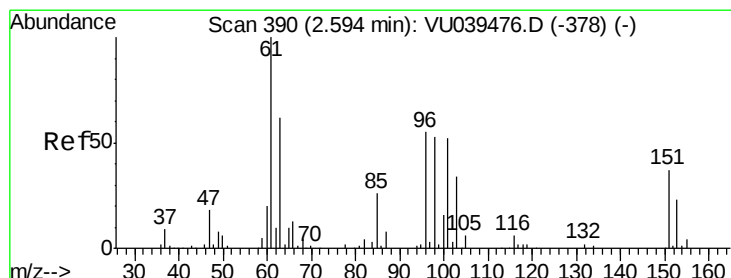
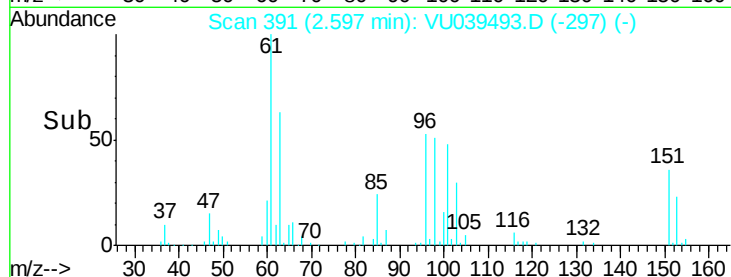
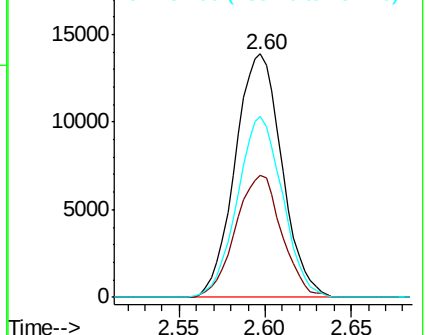
151 72.0 57.0 85.4



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: 4.748 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

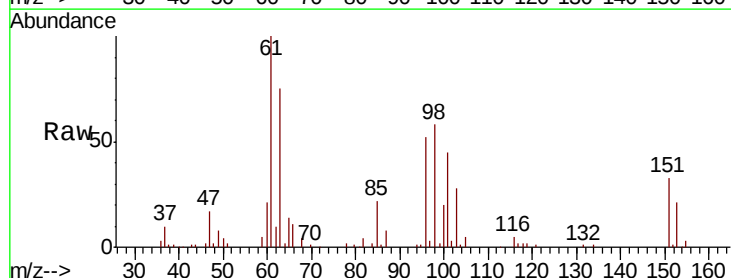
Tgt Ion: 96 Resp: 25721

Ion Ratio Lower Upper

96 100

61 191.2 125.4 232.8

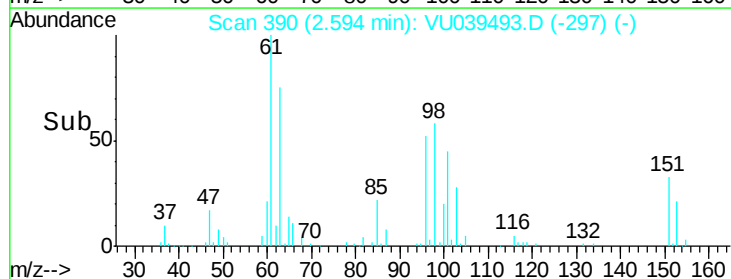
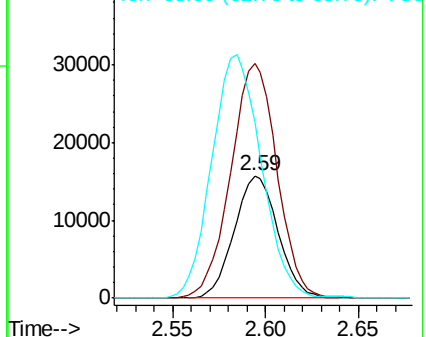
63 143.4 92.7 172.3

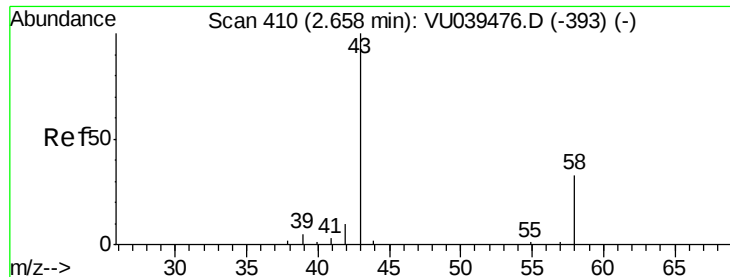


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.608 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

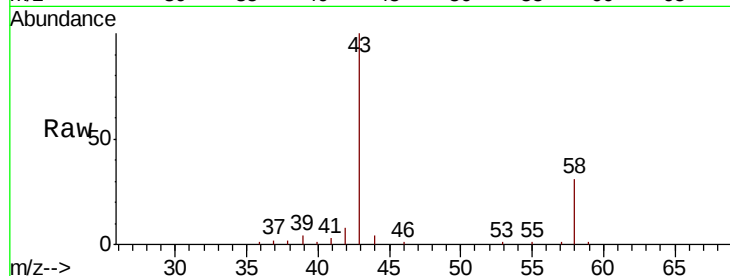
VSTD00520

Tot Ion: 43 Resp: 63381

Ion Ratio Lower Upper

43 100

58 32.0 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039476.D (-393) (-)

Ion 58.05 (57.75 to 58.75): VU039476.D (-393) (-)

2.66

20000

15000

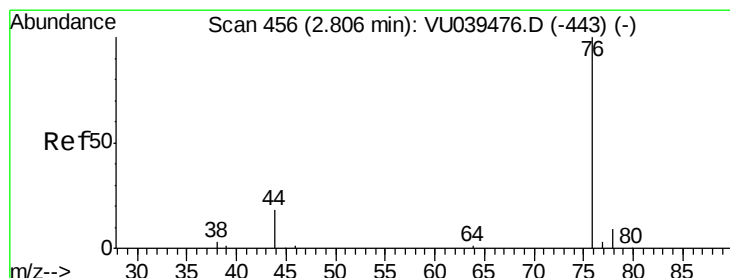
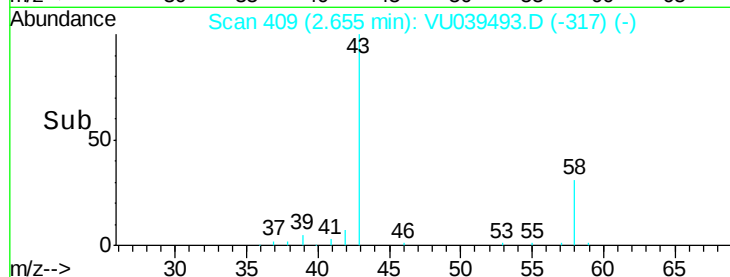
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5000

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Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 4.292 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU039493.D

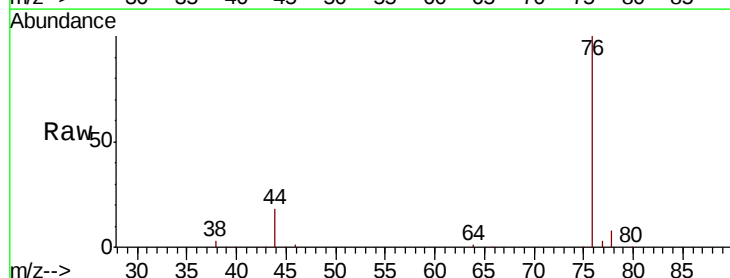
Acq: 14 Jul 2020 18:34

Tgt Ion: 76 Resp: 81914

Ion Ratio Lower Upper

76 100

78 8.4 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU039476.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039476.D (-443) (-)

2.81

50000

40000

30000

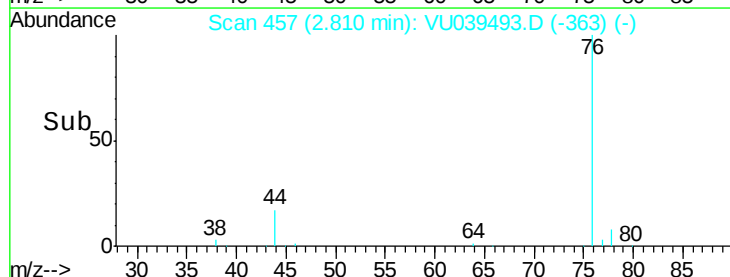
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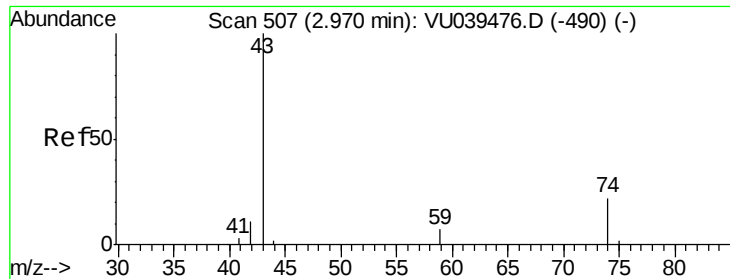
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0

Time-->

2.75 2.80 2.85 2.90





#15

Methvl Acetate

Concen: 5.101 ug/L

RT: 2.97 min Scan# 507

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

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ClientSampleId :

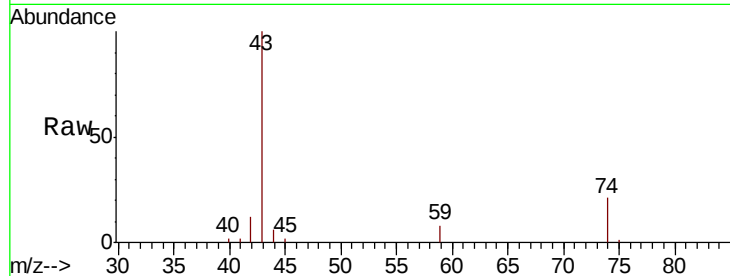
VSTD00520

Tot Ion: 43 Resp: 17570

Ion Ratio Lower Upper

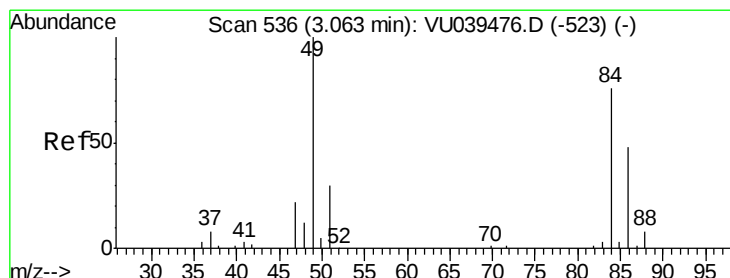
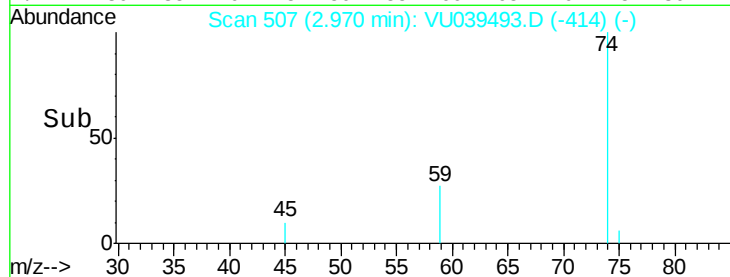
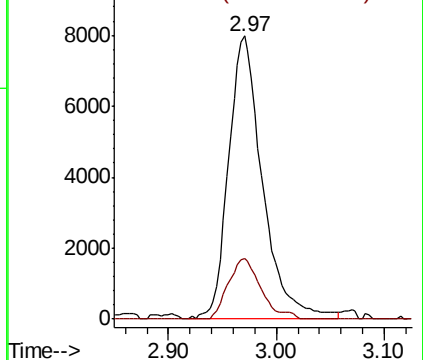
43 100

74 20.5 18.7 28.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.832 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

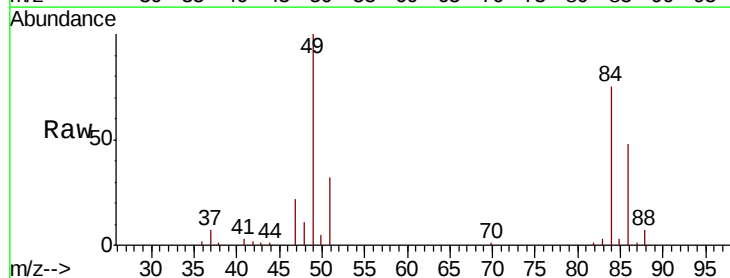
Tgt Ion: 84 Resp: 32928

Ion Ratio Lower Upper

84 100

86 64.7 43.5 80.9

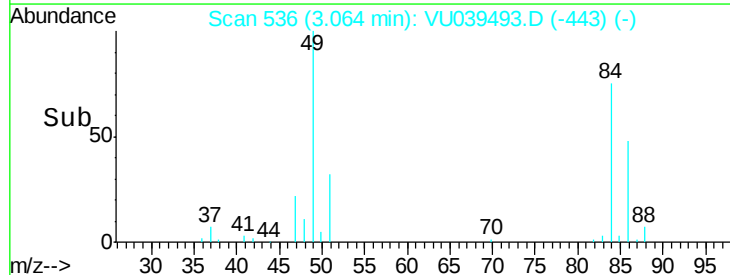
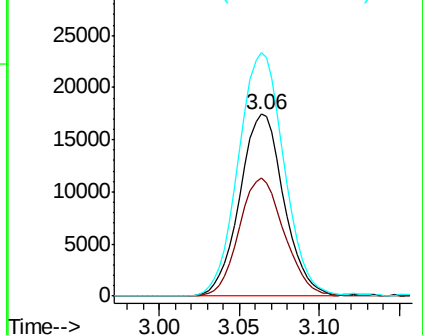
49 134.0 91.1 169.1

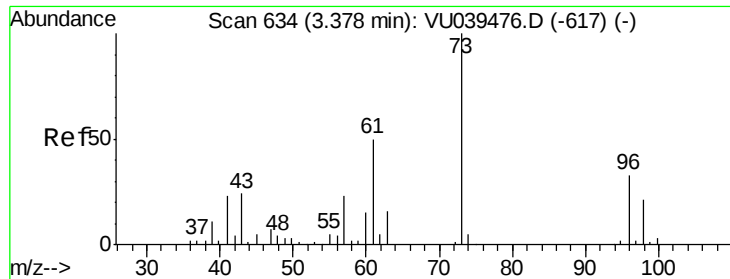


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

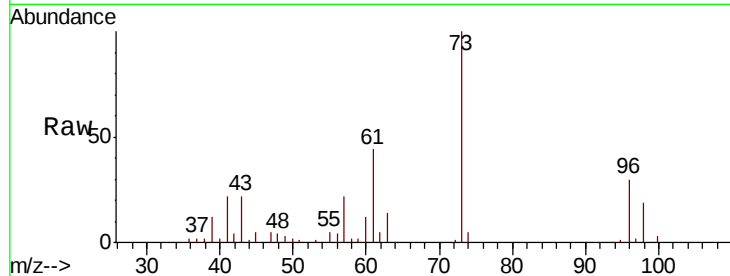




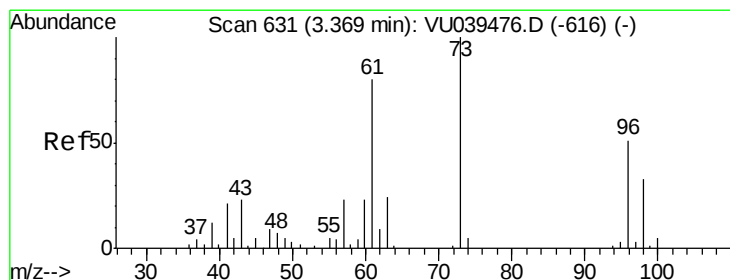
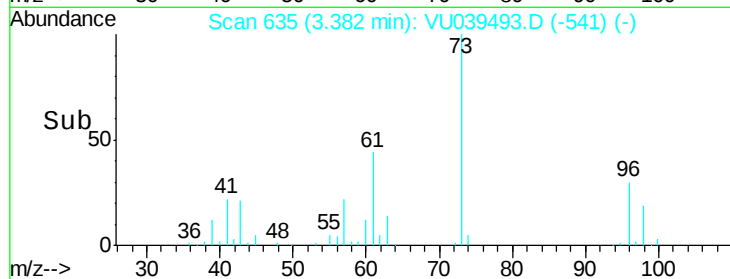
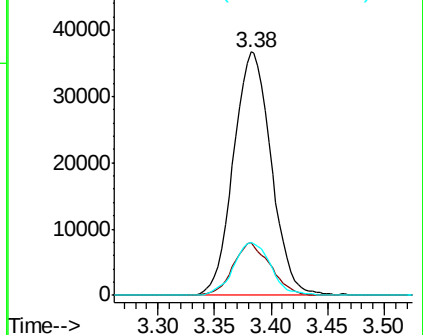
#17
Methvl tert-butvl Ether
Concen: 5.008 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

Tot Ion: 73 Resp: 85485
Ion Ratio Lower Upper
73 100
43 21.5 18.6 28.0
57 21.4 17.9 26.9

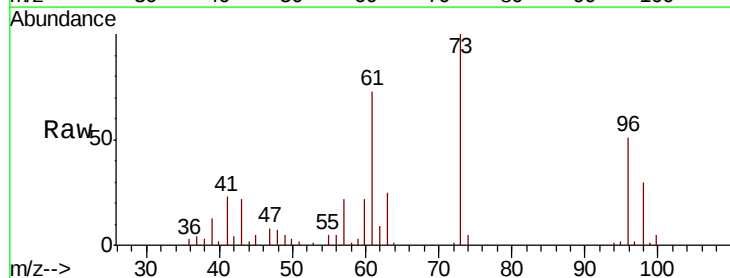


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

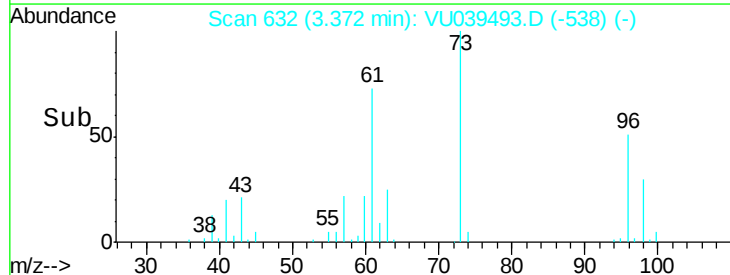
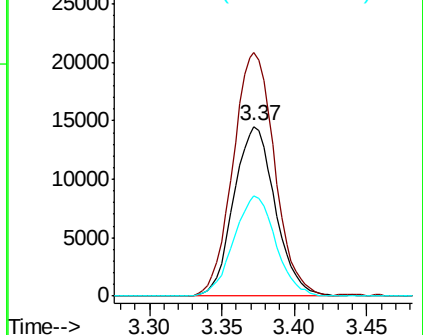


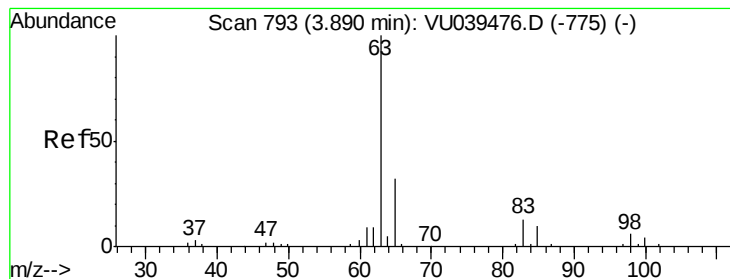
#18
trans-1,2-Dichloroethene
Concen: 4.794 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Tgt Ion: 96 Resp: 28751
Ion Ratio Lower Upper
96 100
61 143.3 102.1 189.5
98 58.9 42.5 78.9



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: 4.920 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

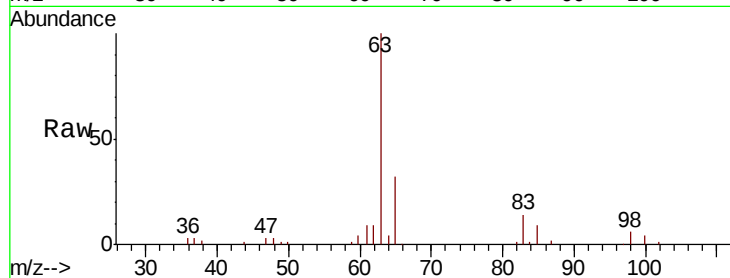
Tot Ion: 63 Resp: 57734

Ion Ratio Lower Upper

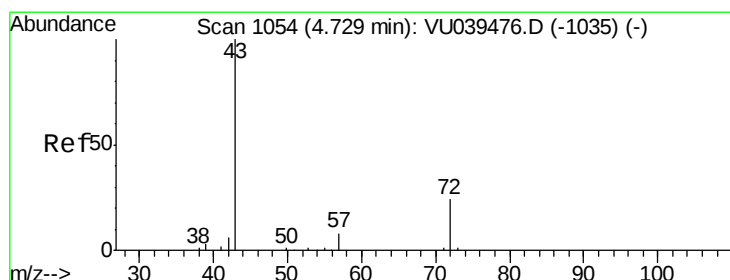
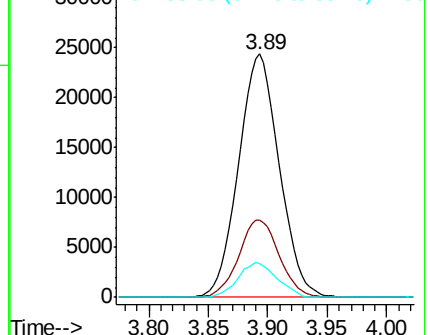
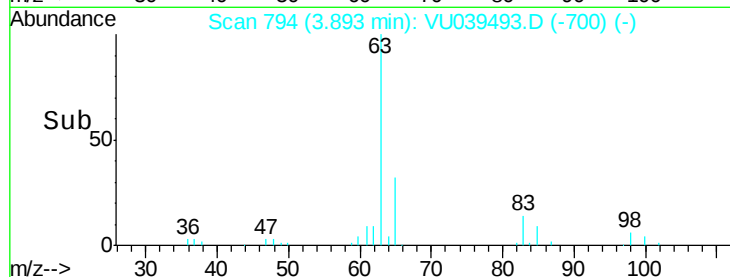
63 100

65 31.8 23.0 42.6

83 14.1 9.6 17.8



Abundance Ion 63.10 (62.80 to 63.80): VU039493.D (-700) (-)



#21

2-Butanone

Concen: 49.200 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VU039493.D

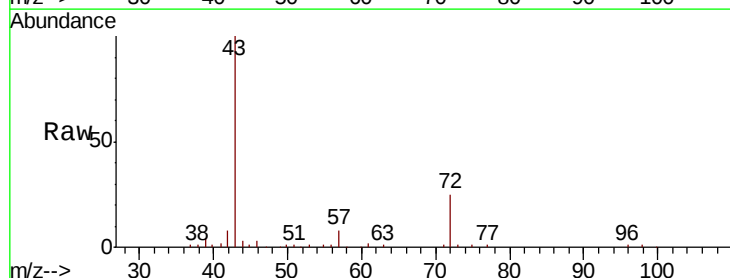
Acq: 14 Jul 2020 18:34

Tgt Ion: 43 Resp: 114504

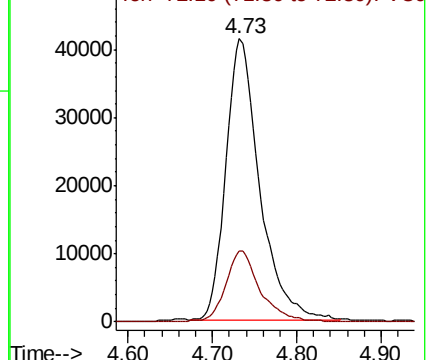
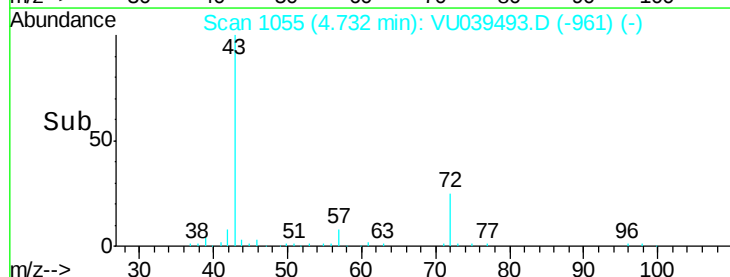
Ion Ratio Lower Upper

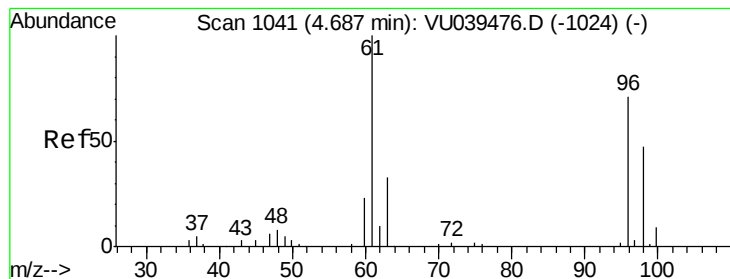
43 100

72 25.9 13.2 39.5



Abundance Ion 43.05 (42.75 to 43.75): VU039493.D (-961) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.894 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

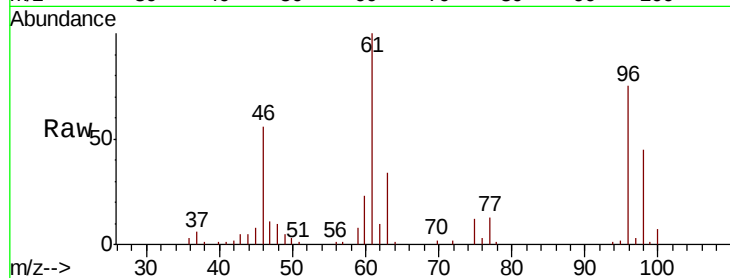
Tot Ion: 96 Resp: 32911

Ion Ratio Lower Upper

96 100

61 133.6 92.8 172.4

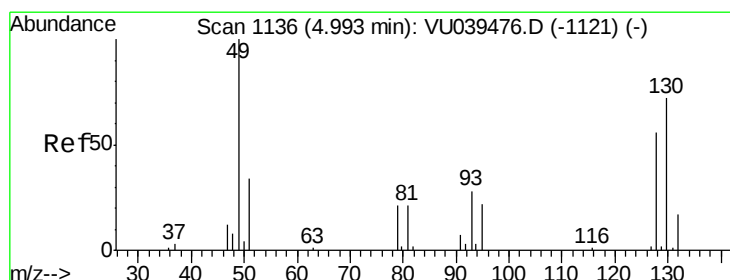
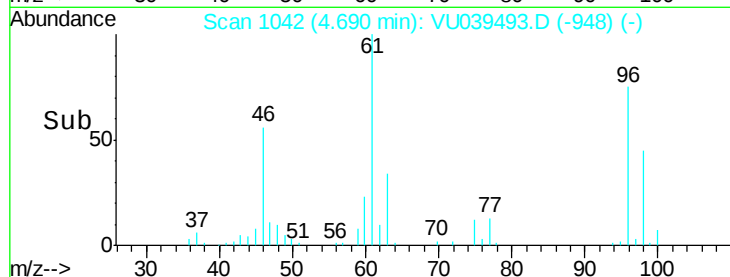
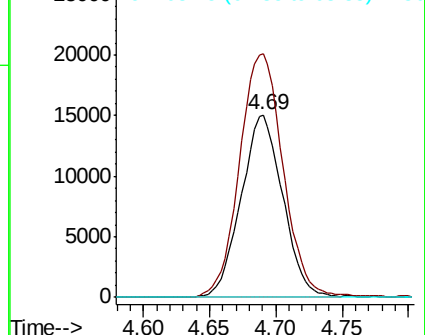
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039493.D (-1043) (-)

Ion 61.05 (60.75 to 61.75): VU039493.D (-1043) (-)

Ion 68.15 (67.85 to 68.85): VU039493.D (-1043) (-)



#23

Bromochloromethane

Concen: 4.896 ug/L

RT: 5.00 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Tgt Ion: 128 Resp: 14958

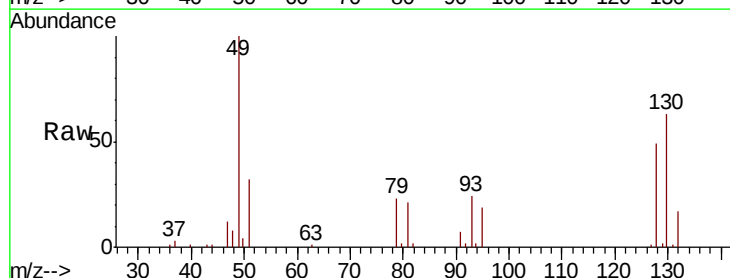
Ion Ratio Lower Upper

128 100

49 213.5 128.5 238.7

130 129.2 91.5 169.9

51 66.3 47.0 70.6

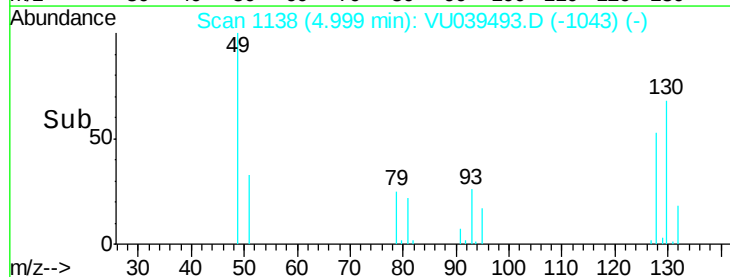
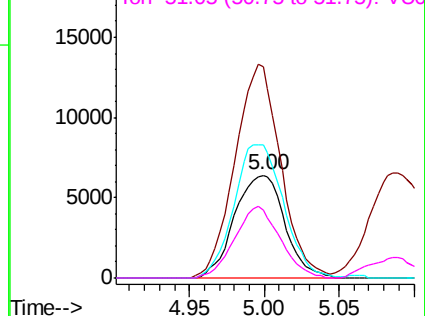


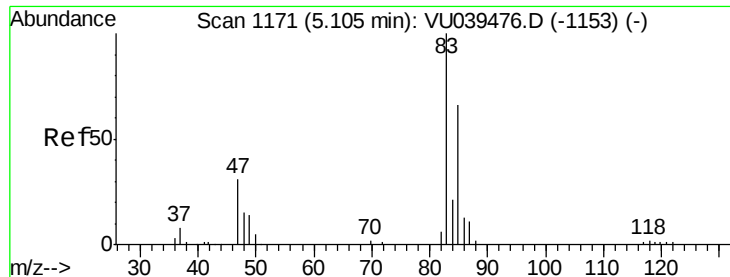
Abundance Ion 127.90 (127.60 to 128.60): VU039493.D (-1043) (-)

Ion 49.10 (48.80 to 49.80): VU039493.D (-1043) (-)

Ion 129.95 (129.65 to 130.65): VU039493.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VU039493.D (-1043) (-)

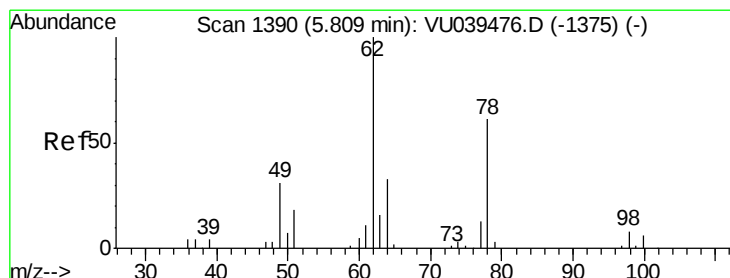
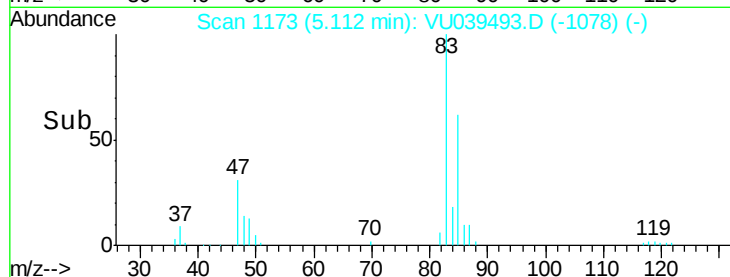
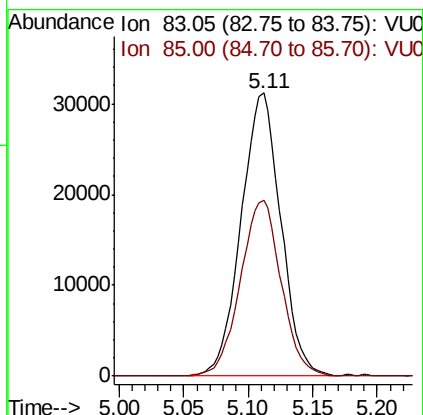
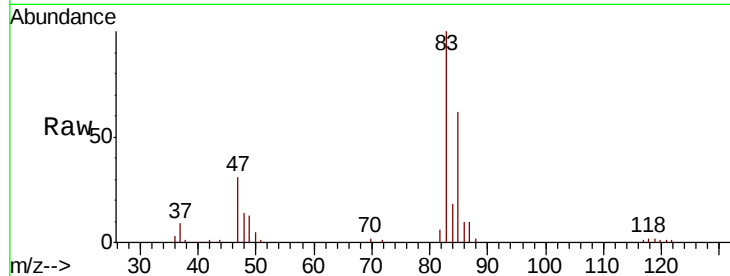




#25
Chloroform
Concen: 5.642 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

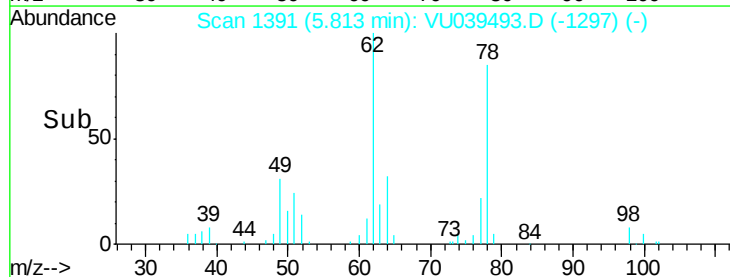
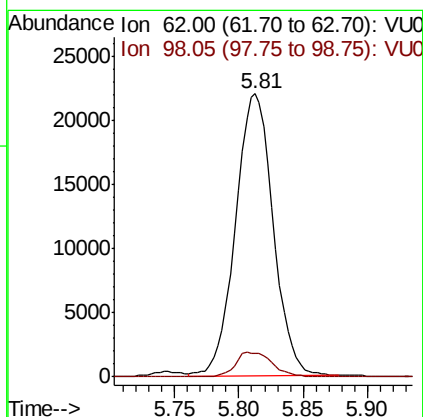
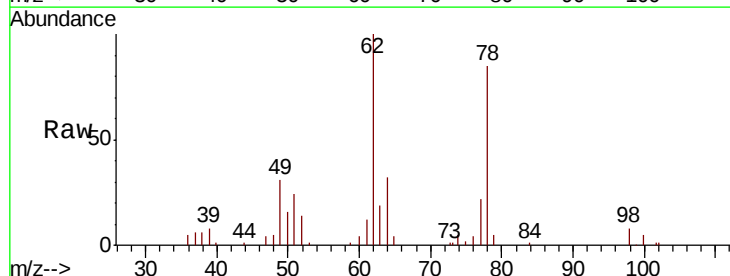
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

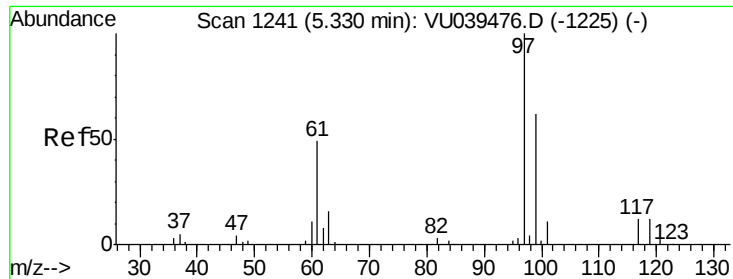
Tot Ion: 83 Resp: 66865
Ion Ratio Lower Upper
83 100
85 62.1 44.9 83.5



#27
1,2-Dichloroethane
Concen: 5.221 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Tgt Ion: 62 Resp: 44753
Ion Ratio Lower Upper
62 100
98 8.2 6.3 9.5

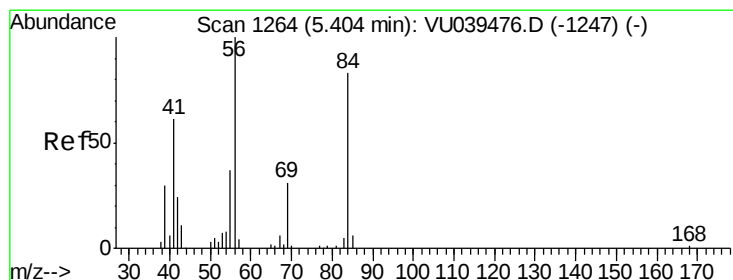
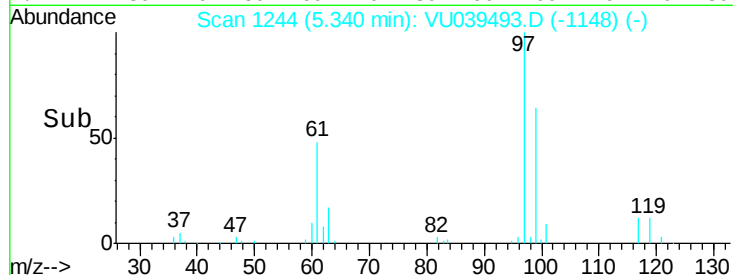
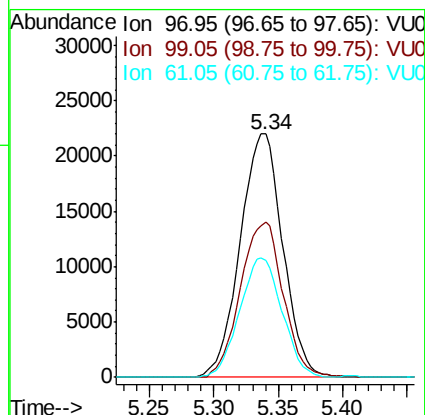
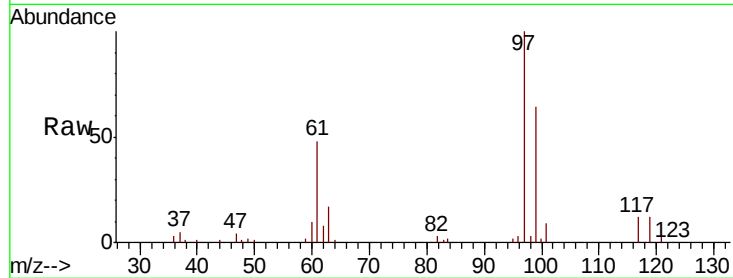




#29
 1,1,1-Trichloroethane
 Concen: 4.795 ug/L
 RT: 5.34 min Scan# 1244
 Delta R.T. 0.01 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

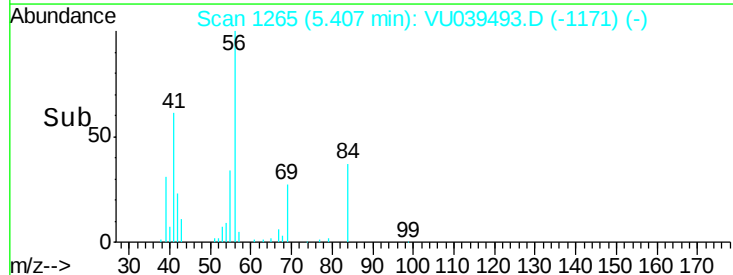
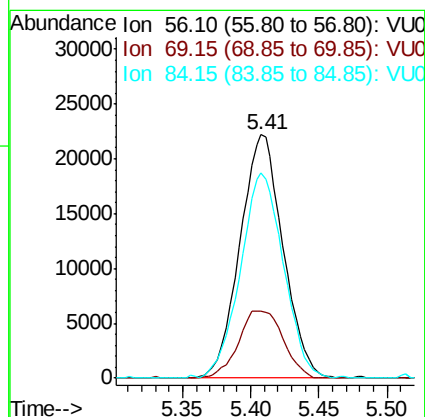
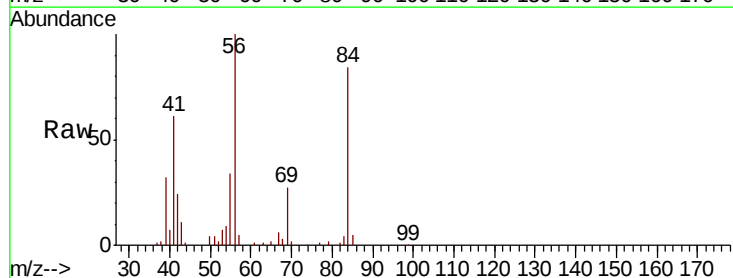
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

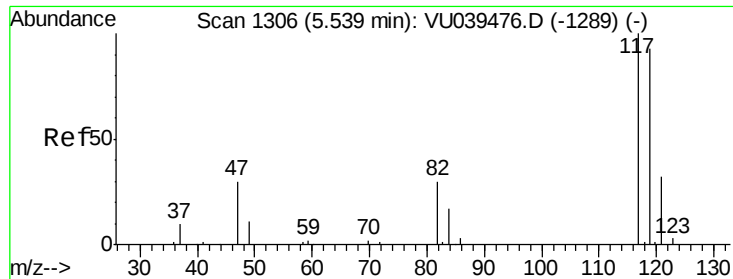
Tot Ion: 97 Resp: 50625
 Ion Ratio Lower Upper
 97 100
 99 64.1 52.6 79.0
 61 48.8 37.9 56.9



#30
 Cyclohexane
 Concen: 4.367 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Tgt Ion: 56 Resp: 48543
 Ion Ratio Lower Upper
 56 100
 69 28.6 24.1 36.1
 84 84.3 67.0 100.6





#31

Carbon tetrachloride

Concen: 4.556 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

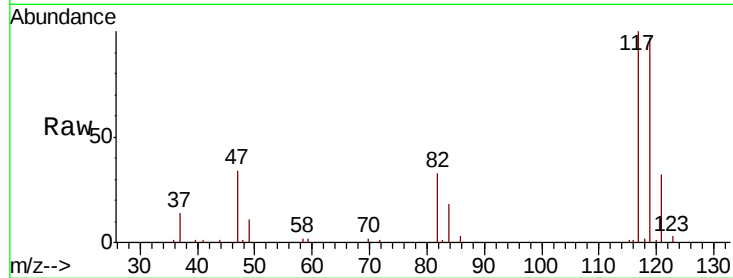
VSTD00520

Tot Ion:117 Resp: 41043

Ion Ratio Lower Upper

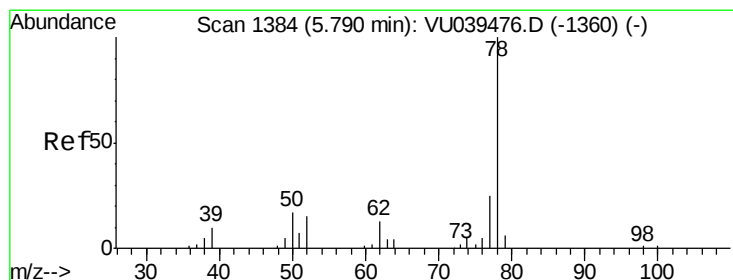
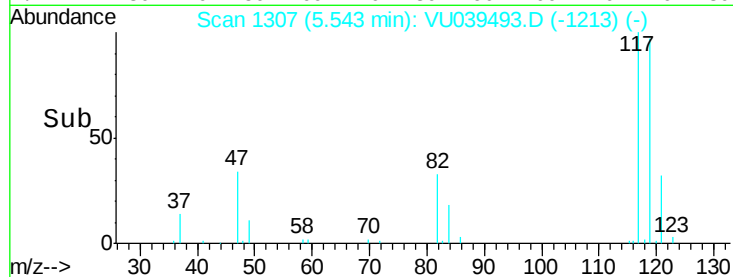
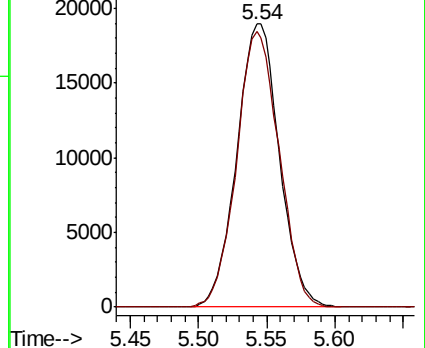
117 100

119 97.1 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.650 ug/L

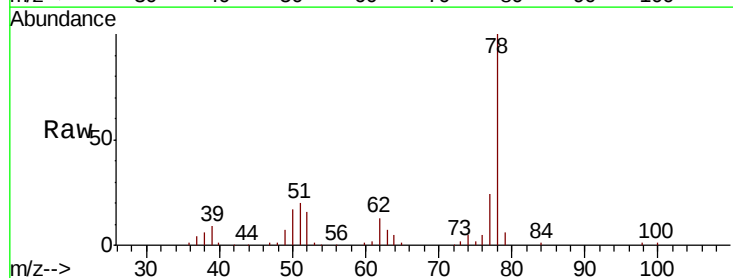
RT: 5.79 min Scan# 1385

Delta R.T. 0.00 min

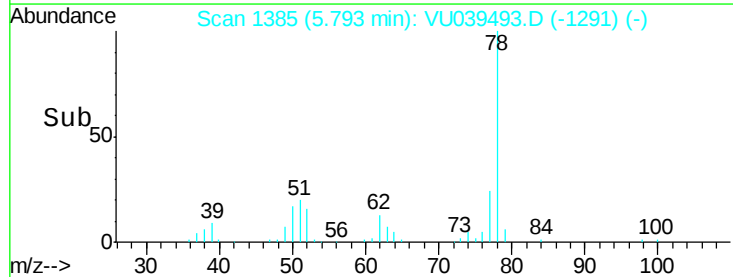
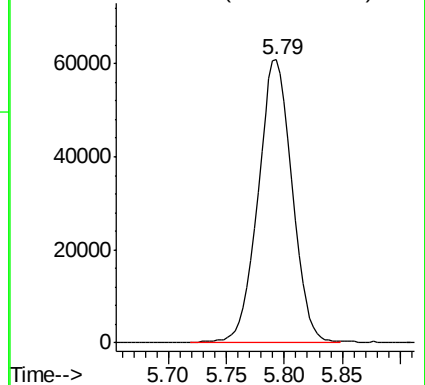
Lab File: VU039493.D

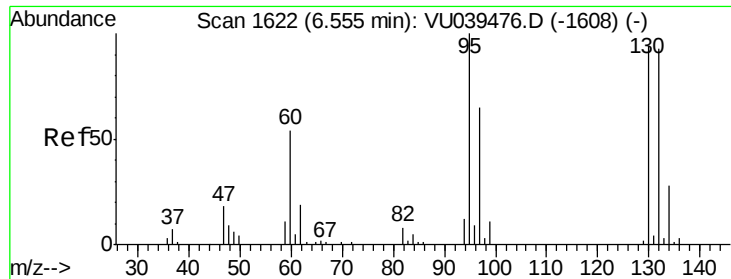
Acq: 14 Jul 2020 18:34

Tgt Ion: 78 Resp: 124626



Abundance Ion 78.10 (77.80 to 78.80): VU0

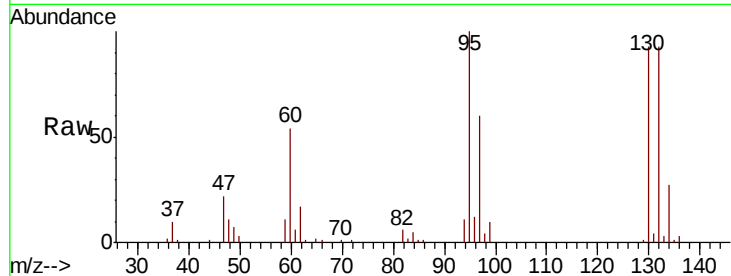




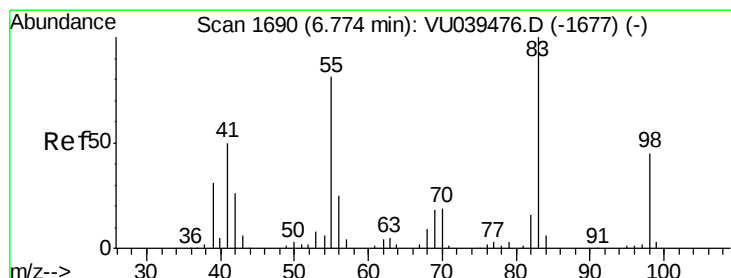
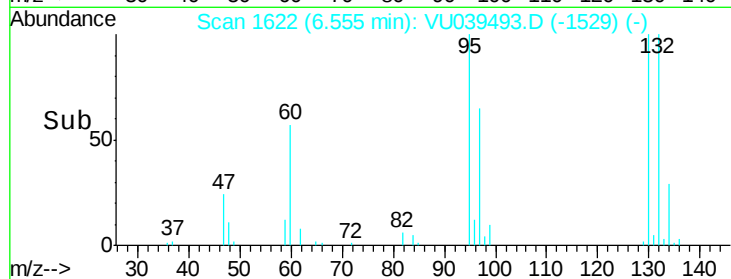
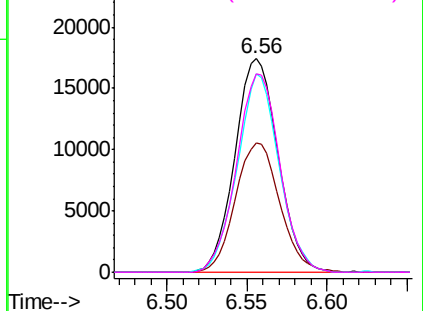
#34
 Trichloroethene
 Concen: 4.624 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Tot Ion: 95 Resp: 32040
 Ion Ratio Lower Upper
 95 100
 97 60.3 46.3 85.9
 132 92.9 64.0 118.8
 130 92.7 64.3 119.5

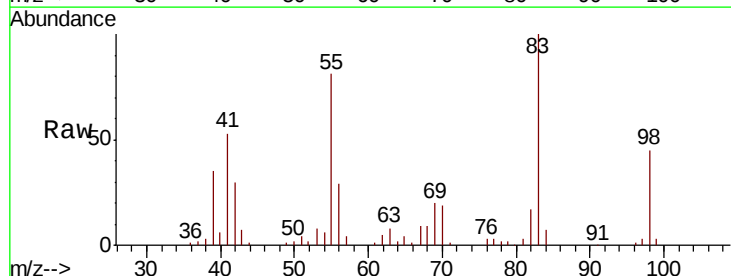


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

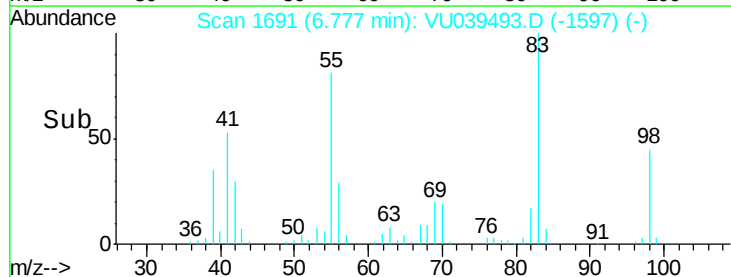
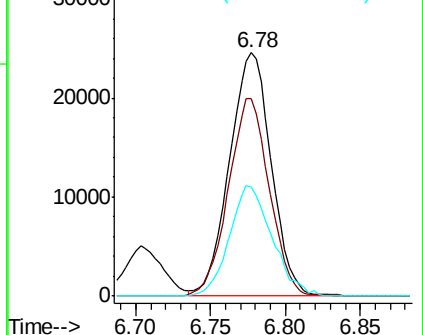


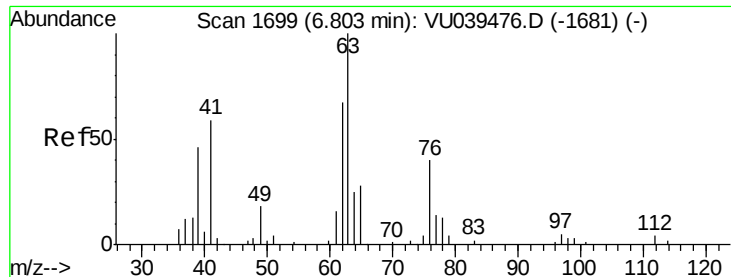
#35
 Methylcyclohexane
 Concen: 4.305 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Tgt Ion: 83 Resp: 47787
 Ion Ratio Lower Upper
 83 100
 55 79.3 62.1 93.1
 98 46.2 35.9 53.9



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

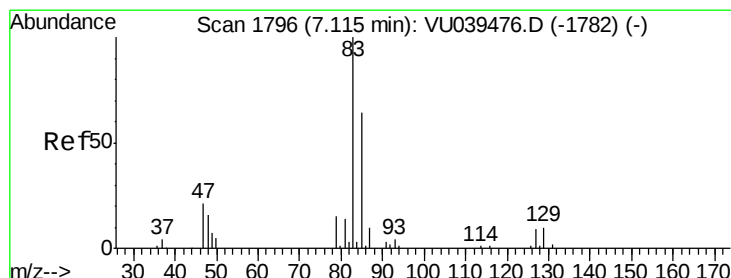
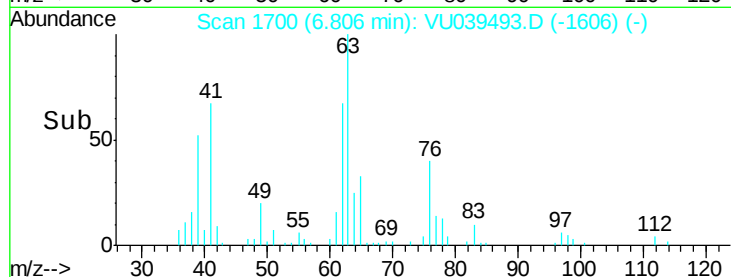
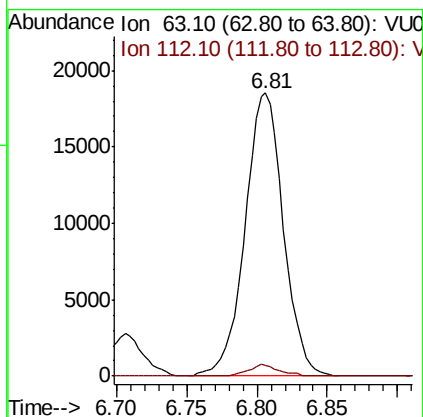
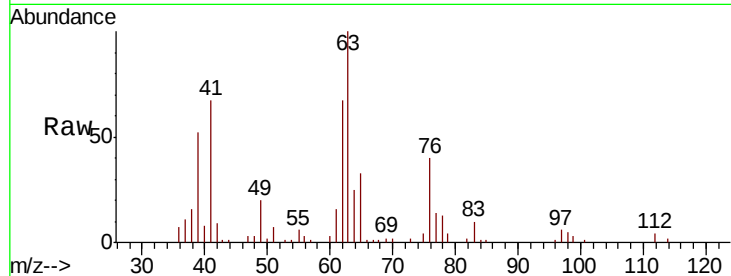




#37
 1,2-Dichloropropane
 Concen: 4.812 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

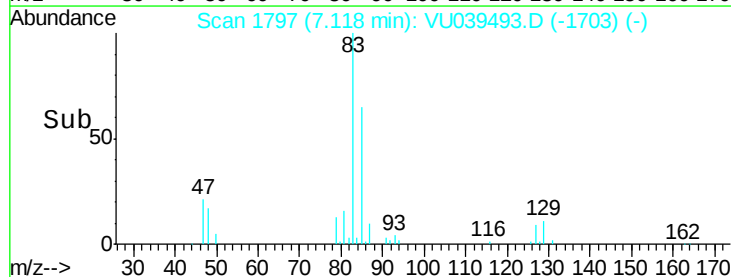
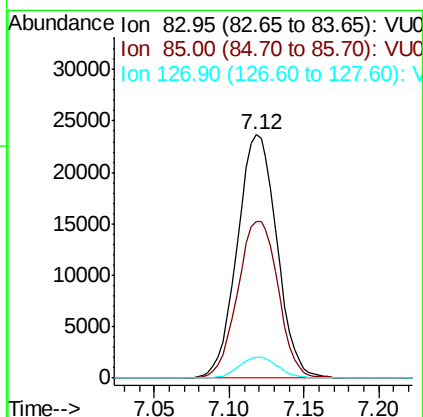
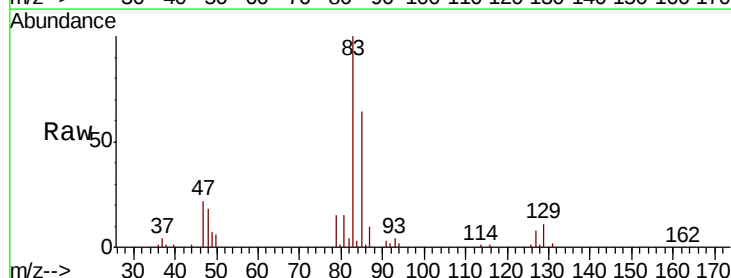
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

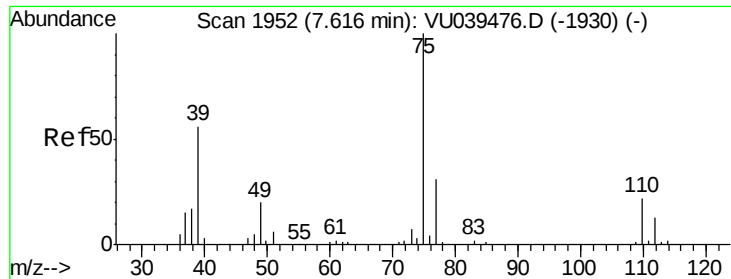
Tot Ion: 63 Resp: 35159
 Ion Ratio Lower Upper
 63 100
 112 3.2 2.5 3.7



#38
 Bromodichloromethane
 Concen: 4.670 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Tgt Ion: 83 Resp: 43569
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.0 81.6
 127 8.4 6.2 9.4

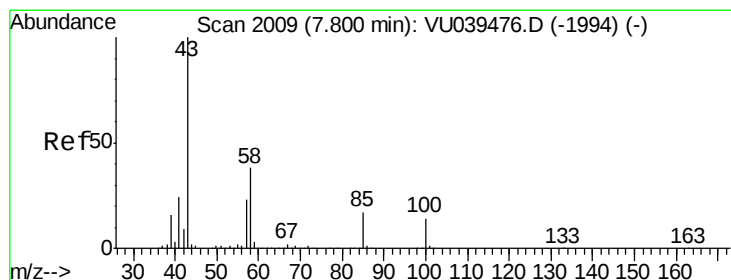
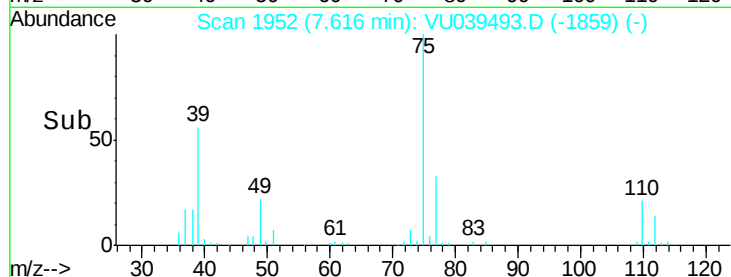
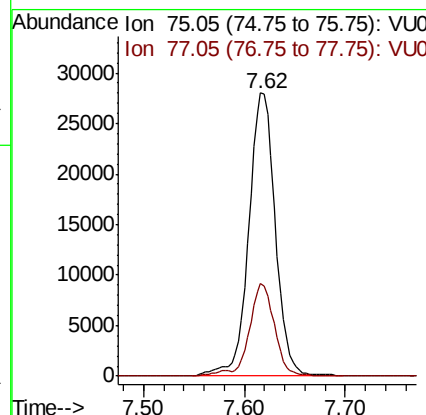
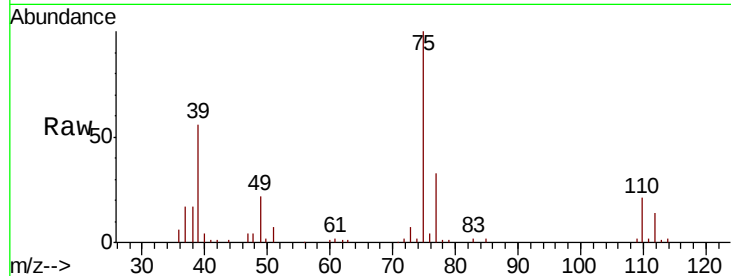




#39
 cis-1,3-Dichloropropene
 Concen: 4.611 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

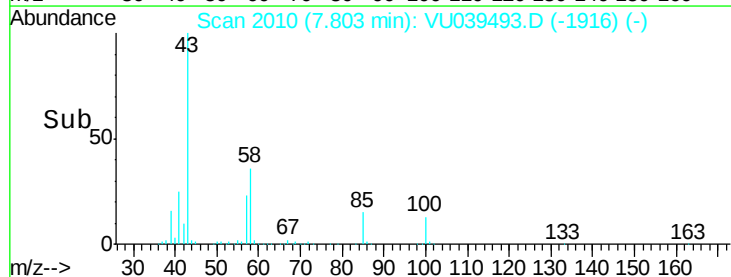
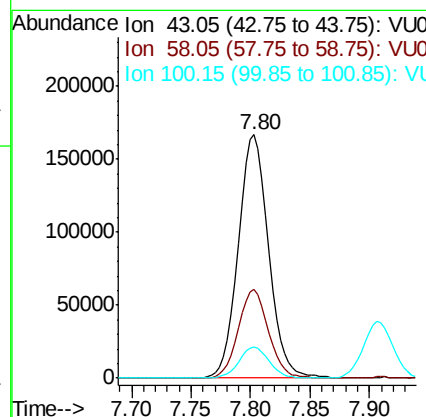
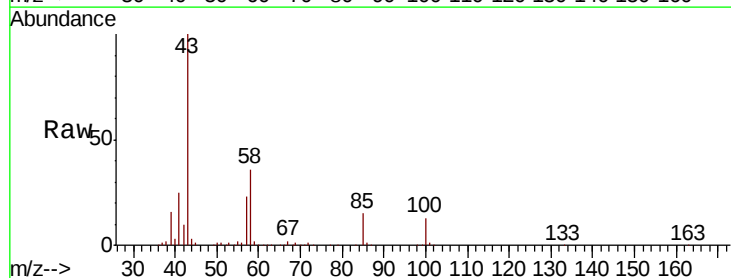
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

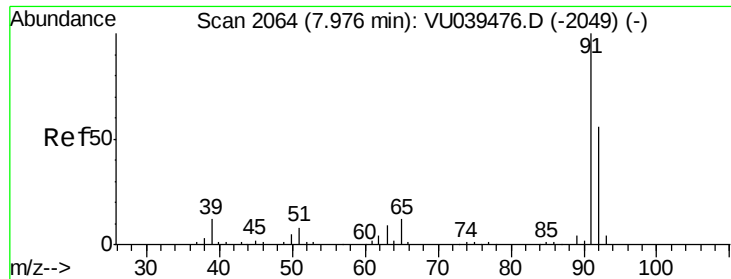
Tot Ion: 75 Resp: 50931
 Ion Ratio Lower Upper
 75 100
 77 32.6 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 48.324 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Tgt Ion: 43 Resp: 294531
 Ion Ratio Lower Upper
 43 100
 58 36.3 30.5 45.7
 100 12.8 10.3 15.5





#42

Toluene

Concen: 4.725 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

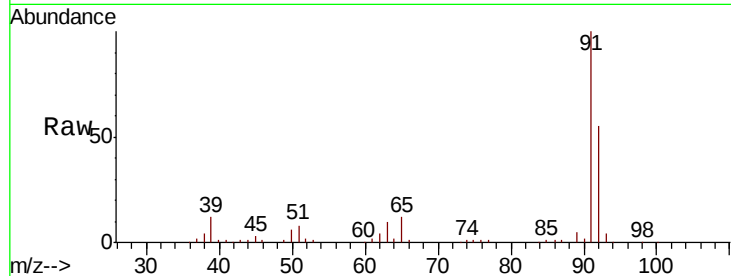
VSTD00520

Tot Ion: 91 Resp: 135612

Ion Ratio Lower Upper

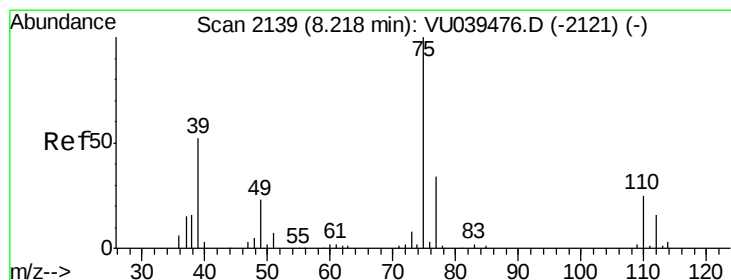
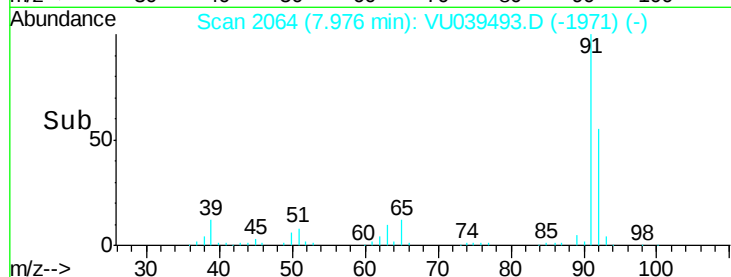
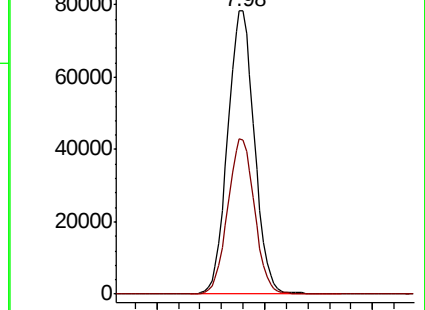
91 100

92 55.0 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU039476.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU039476.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.624 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039493.D

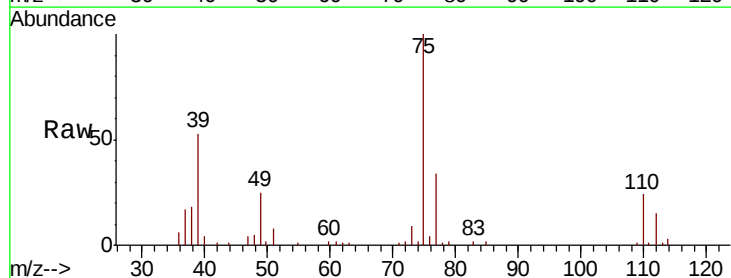
Acq: 14 Jul 2020 18:34

Tgt Ion: 75 Resp: 45313

Ion Ratio Lower Upper

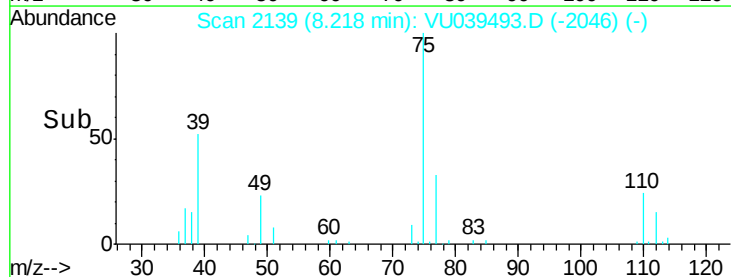
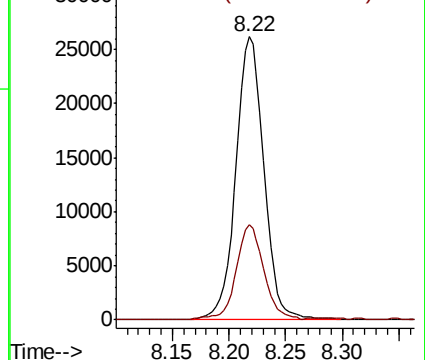
75 100

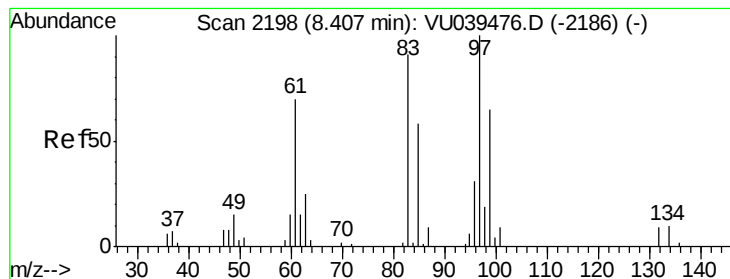
77 33.6 23.7 43.9



Abundance Ion 75.05 (74.75 to 75.75): VU039476.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU039476.D (-2121) (-)





#45

1,1,2-Trichloroethane

Concen: 4.784 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

Tot Ion: 97 Resp: 25104

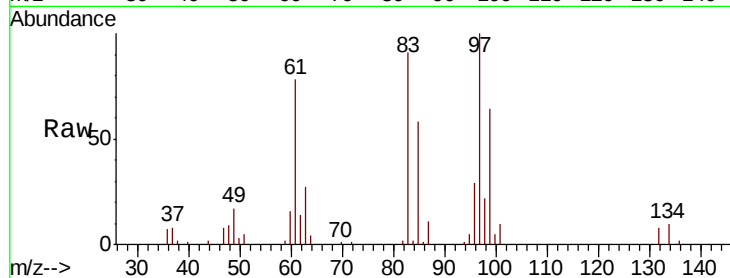
Ion Ratio Lower Upper

97 100

99 64.0 40.7 75.7

83 91.3 60.6 112.6

85 57.8 38.3 71.1

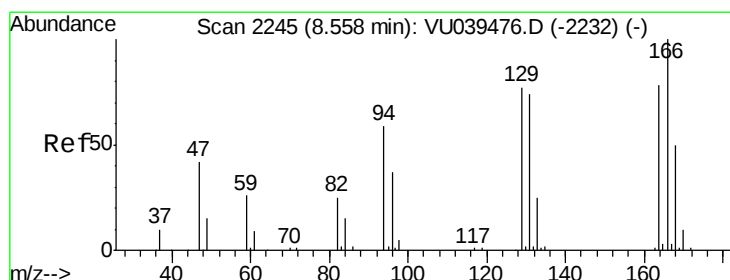
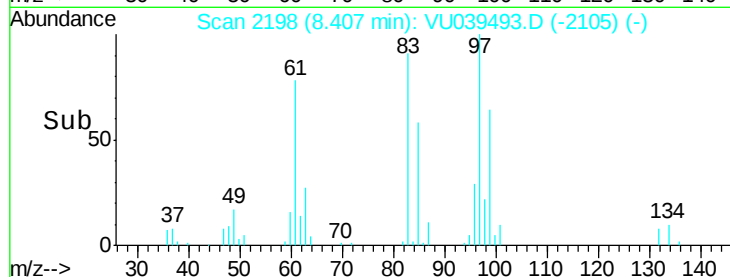
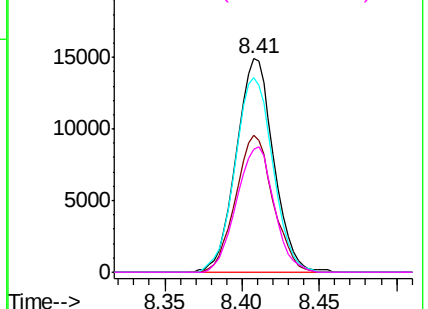


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.768 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Tgt Ion: 164 Resp: 22980

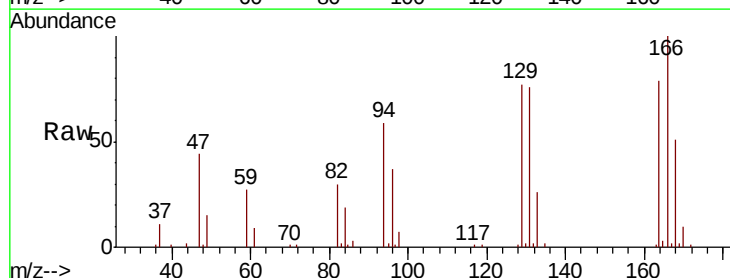
Ion Ratio Lower Upper

164 100

129 96.5 68.6 127.4

131 95.5 66.4 123.4

166 126.1 85.9 159.5

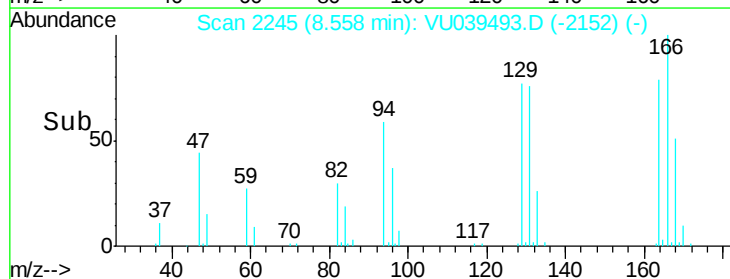
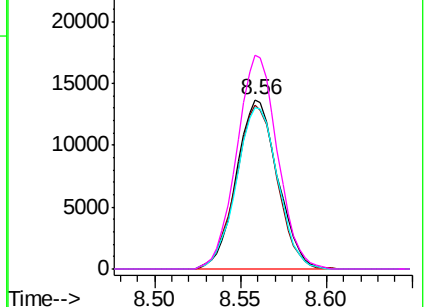


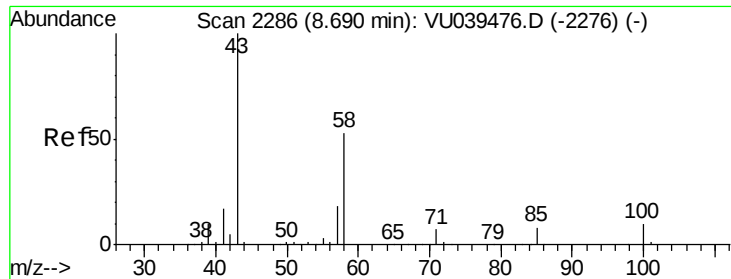
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

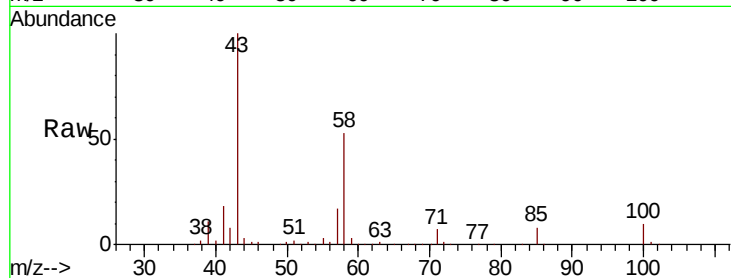




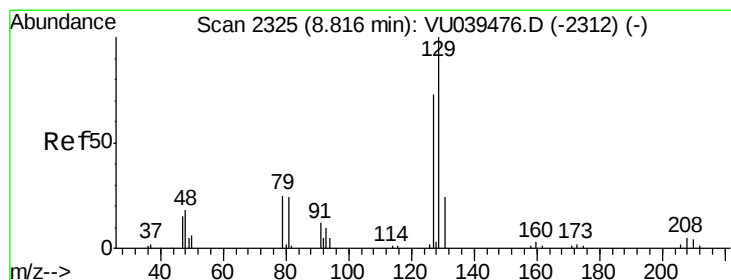
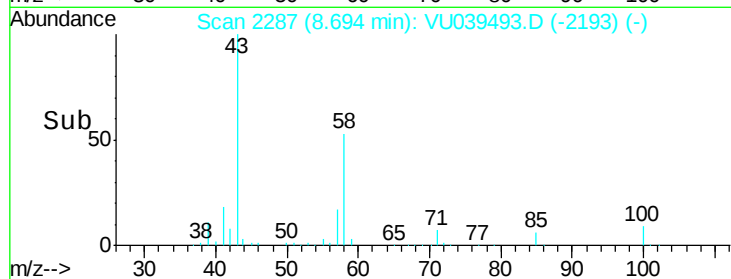
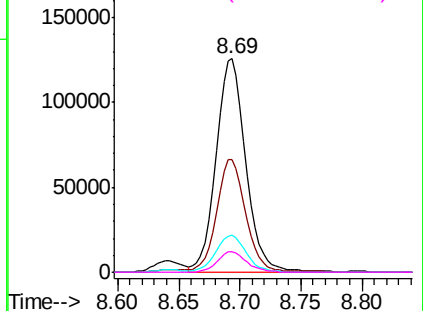
#48
2-Hexanone
Concen: 47.640 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

Tot Ion:	43	Resp:	214097
Ion	Ratio	Lower	Upper
43	100		
58	51.2	42.0	63.0
57	17.6	14.0	21.0
100	9.5	8.2	12.2

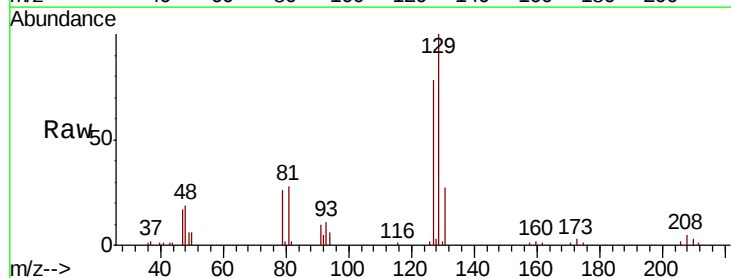


Abundance Ion 43.05 (42.75 to 43.75): VU039493.D (-2193) (-)
Ion 58.05 (57.75 to 58.75): VU039493.D (-2193) (-)
Ion 57.20 (56.90 to 57.90): VU039493.D (-2193) (-)
Ion 100.15 (99.85 to 100.85): VU039493.D (-2193) (-)

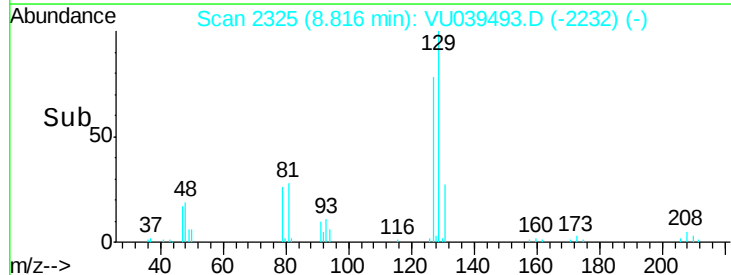
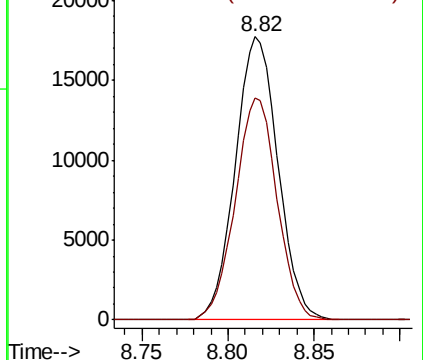


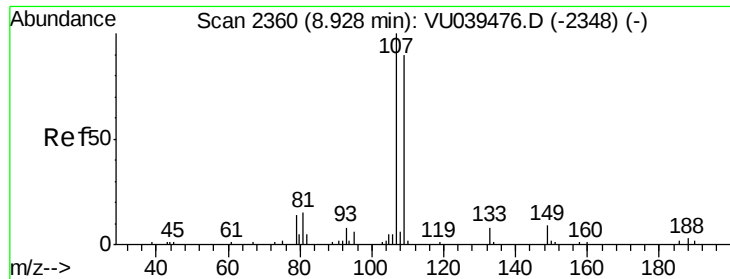
#49
Dibromochloromethane
Concen: 4.804 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Tgt Ion:	129	Resp:	30534
Ion	Ratio	Lower	Upper
129	100		
127	78.5	55.4	102.8



Abundance Ion 128.95 (128.65 to 129.65): VU039493.D (-2232) (-)
Ion 126.90 (126.60 to 127.60): VU039493.D (-2232) (-)

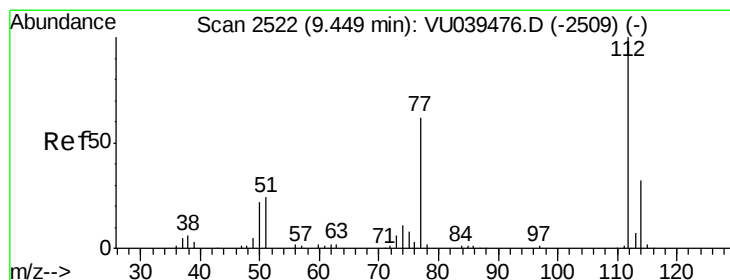
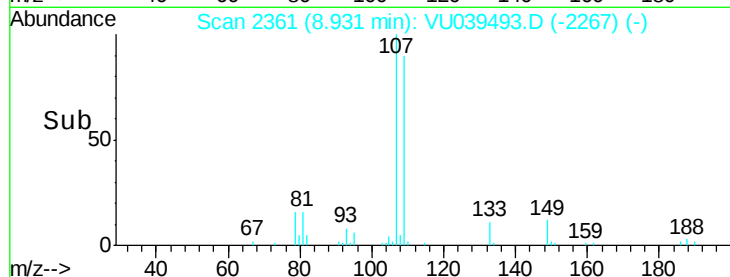
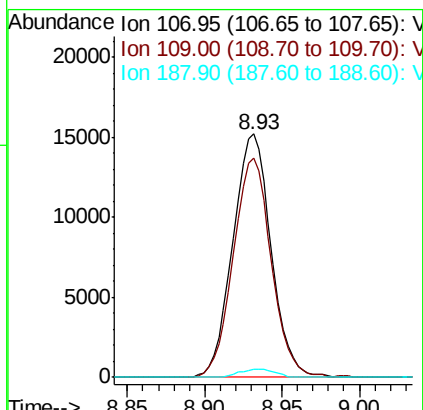
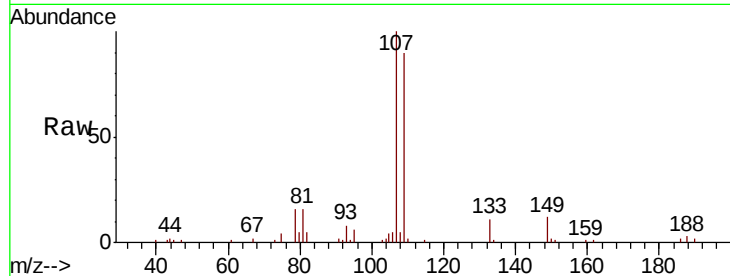




#50
1,2-Dibromoethane
Concen: 4.881 ug/L
RT: 8.93 min Scan# 2361
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

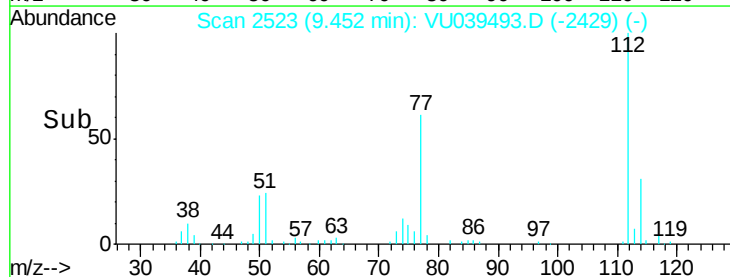
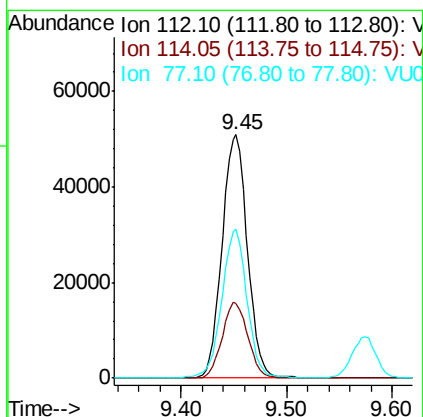
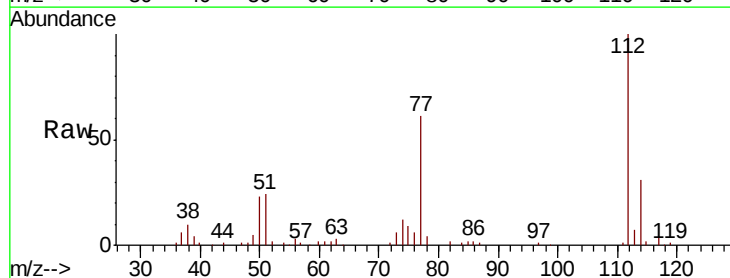
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

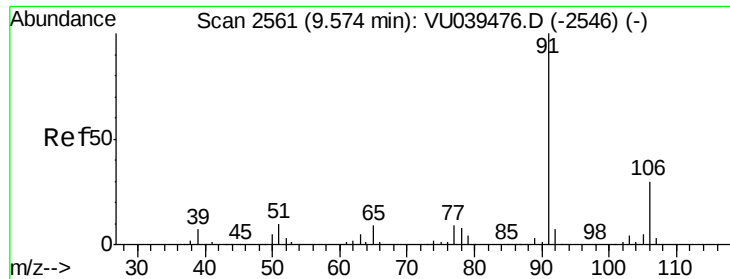
Tot Ion	Ratio	Lower	Upper
107	100		
109	90.2	64.0	118.8
188	3.3	2.6	3.8



#51
Chlorobenzene
Concen: 4.829 ug/L
RT: 9.45 min Scan# 2523
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.9	22.1	41.1
77	61.3	49.9	74.9





#52

Ethylbenzene

Concen: 4.702 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

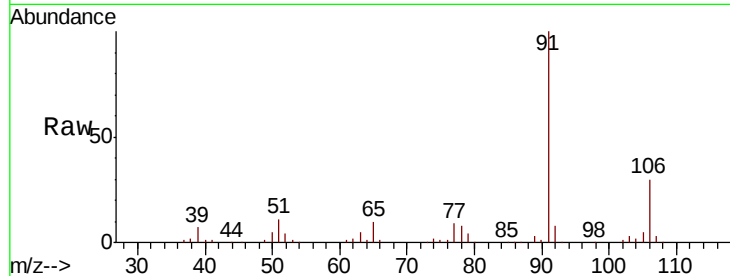
VSTD00520

Tot Ion: 91 Resp: 149147

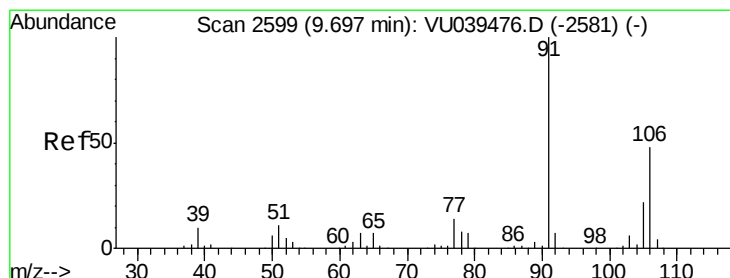
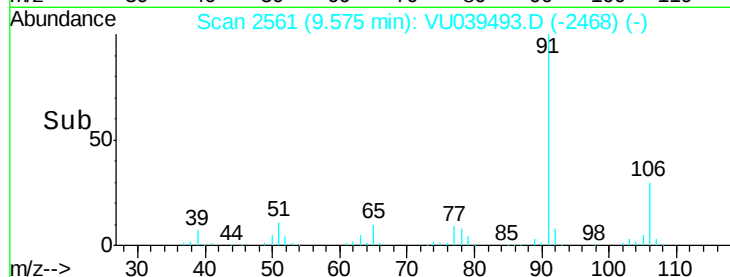
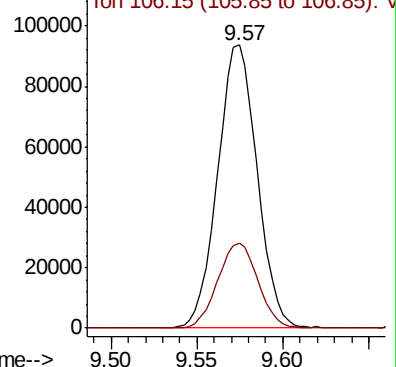
Ion Ratio Lower Upper

91 100

106 30.1 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039493.D (-2506) (-)



#53

m,p-Xylene

Concen: 4.536 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU039493.D

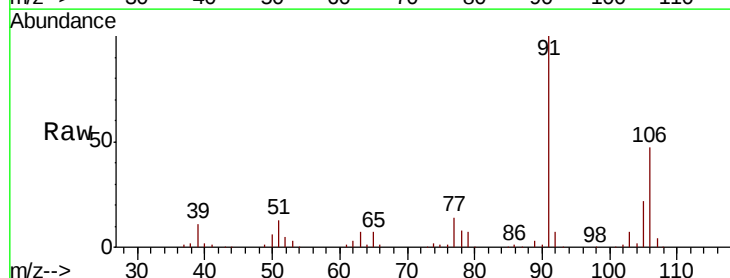
Acq: 14 Jul 2020 18:34

Tgt Ion: 106 Resp: 54209

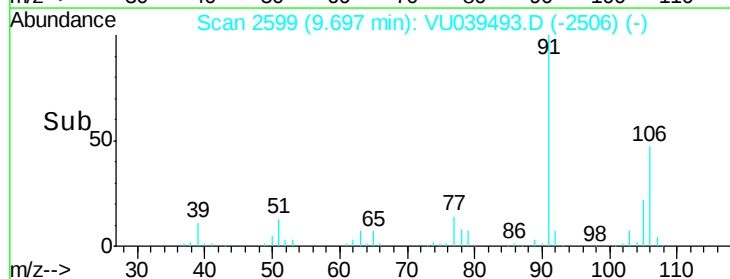
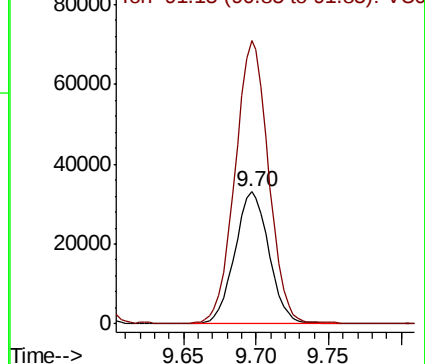
Ion Ratio Lower Upper

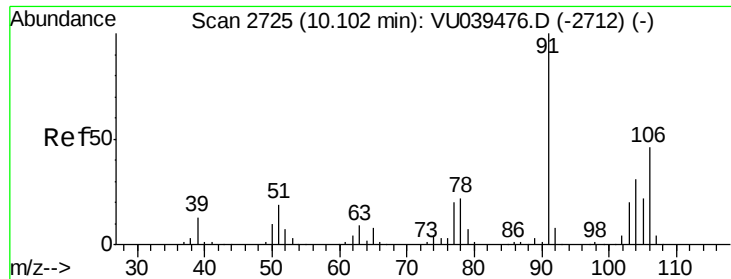
106 100

91 214.6 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): VU039493.D (-2506) (-)

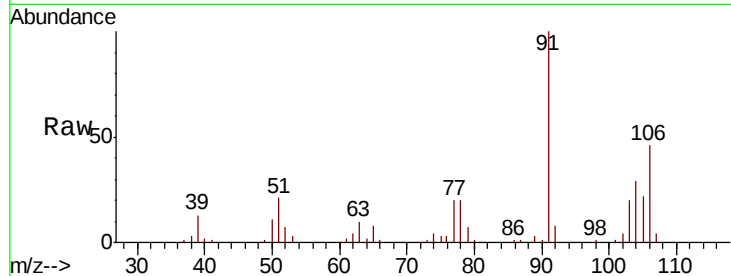




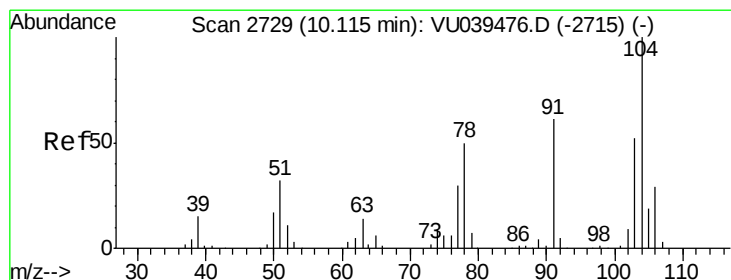
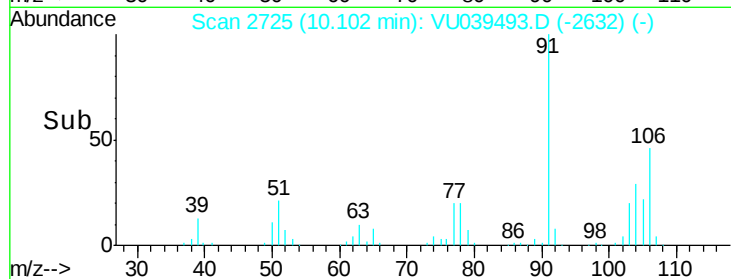
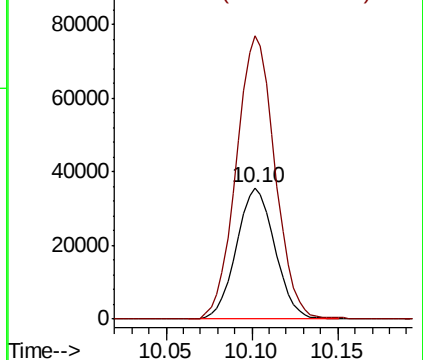
#54
o-Xylene
Concen: 4.785 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

Tot Ion:106 Resp: 55668
Ion Ratio Lower Upper
106 100
91 215.7 154.6 287.2

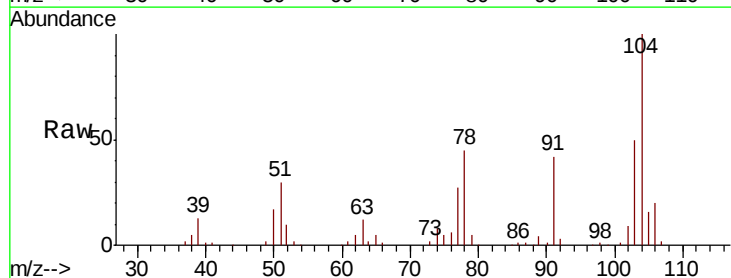


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

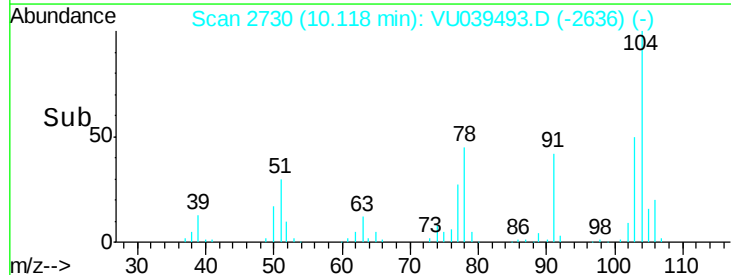
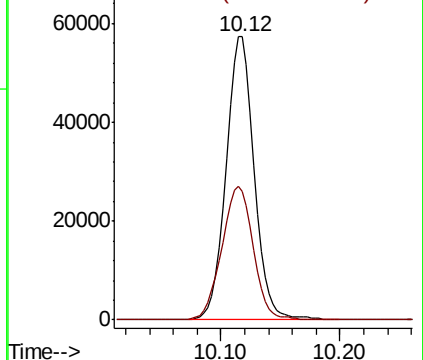


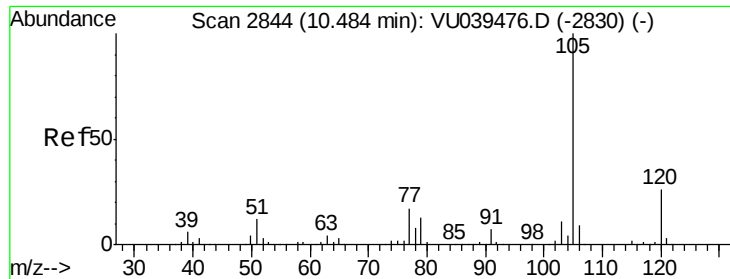
#55
Styrene
Concen: 4.634 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU039493.D
Acq: 14 Jul 2020 18:34

Tgt Ion:104 Resp: 93803
Ion Ratio Lower Upper
104 100
78 45.3 33.1 61.5



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





#56

Isopropylbenzene

Concen: 4.665 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

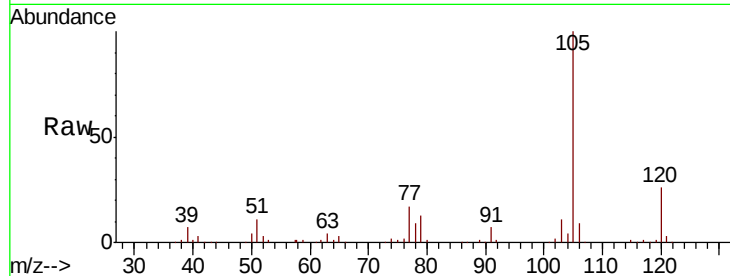
Tot Ion:105 Resp: 146798

Ion Ratio Lower Upper

105 100

120 25.4 20.7 31.1

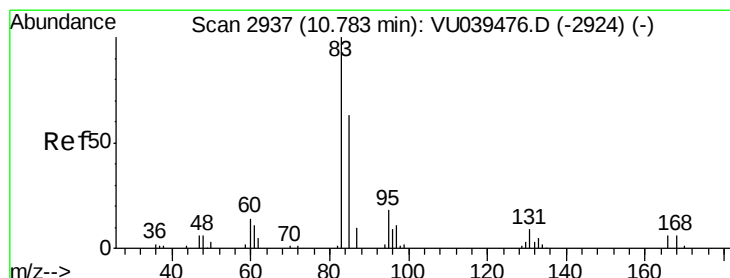
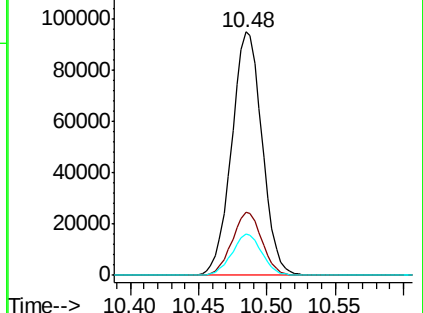
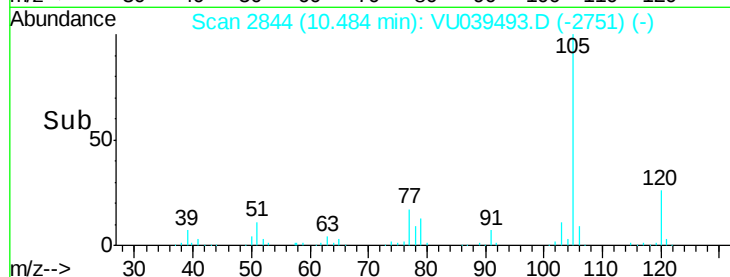
77 16.6 13.9 20.9



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: 4.866 ug/L

RT: 10.78 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

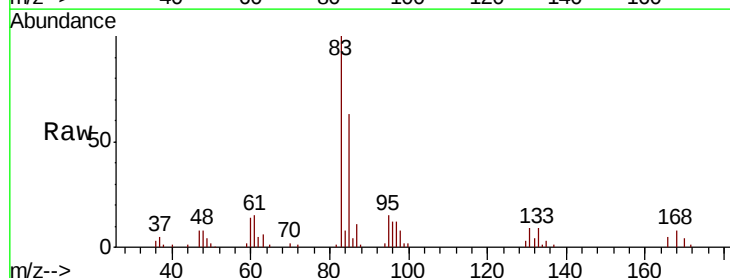
Tgt Ion: 83 Resp: 35541

Ion Ratio Lower Upper

83 100

85 62.9 46.1 85.7

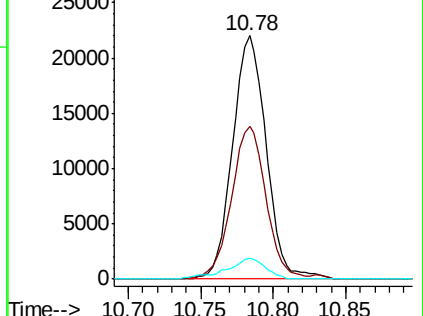
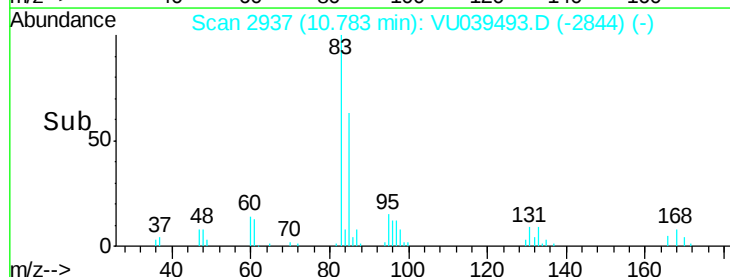
131 8.7 7.4 11.0

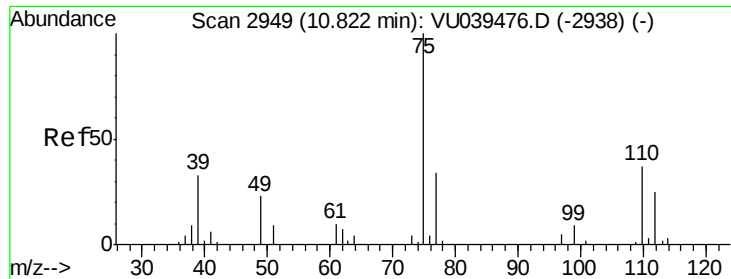


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.731 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

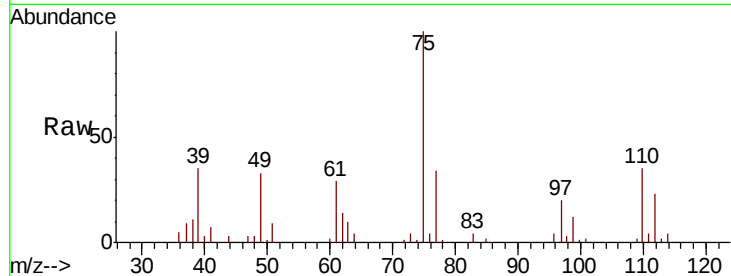
VSTD00520

Tot Ion: 75 Resp: 25476

Ion Ratio Lower Upper

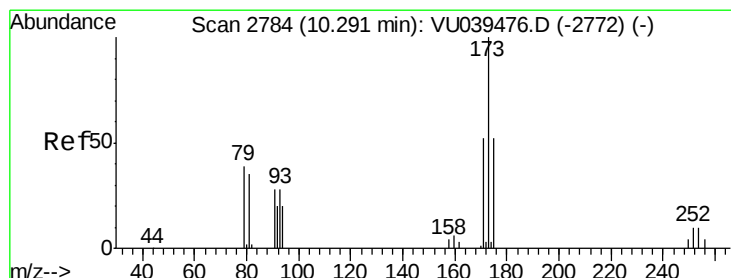
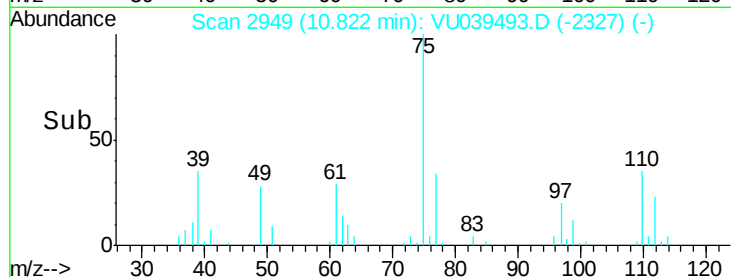
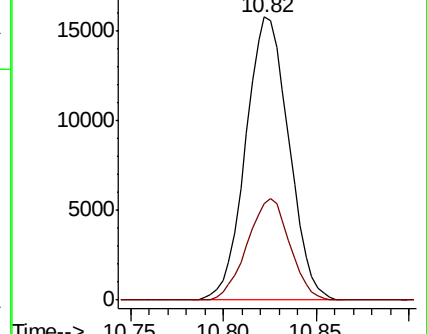
75 100

77 35.1 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU039476.D (-2938) (-)

Ion 77.00 (76.70 to 77.70): VU039476.D (-2938) (-)



#61

Bromoform

Concen: 4.601 ug/L

RT: 10.29 min Scan# 2785

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

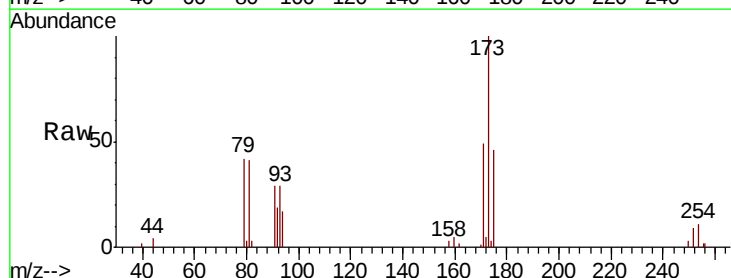
Tgt Ion: 173 Resp: 17261

Ion Ratio Lower Upper

173 100

175 46.3 37.5 56.3

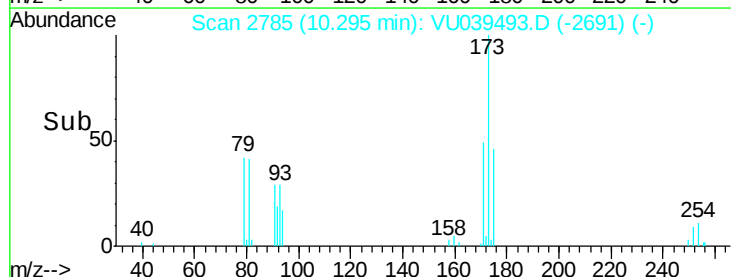
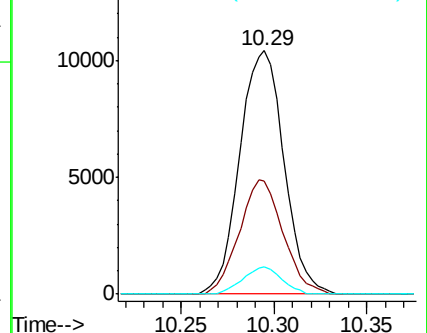
254 9.7 6.7 10.1

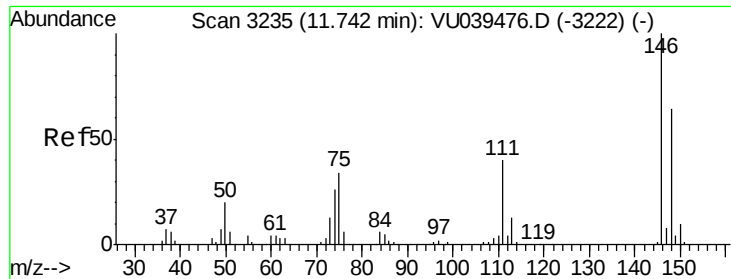


Abundance Ion 172.90 (172.60 to 173.60): VU039476.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU039476.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU039476.D (-2772) (-)





#62

1,3-Dichlorobenzene

Concen: 4.661 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampled :

VSTD00520

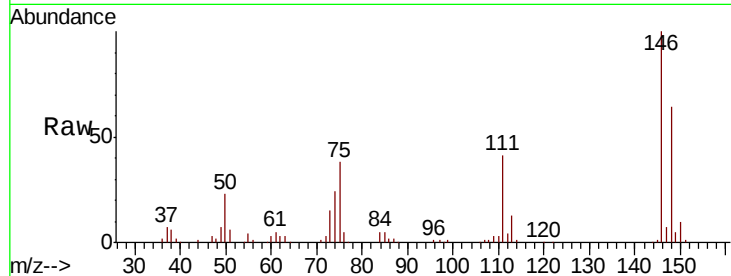
Tot Ion:146 Resp: 65012

Ion Ratio Lower Upper

146 100

111 40.6 29.0 53.8

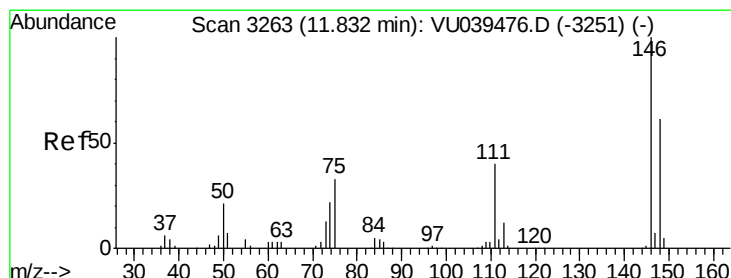
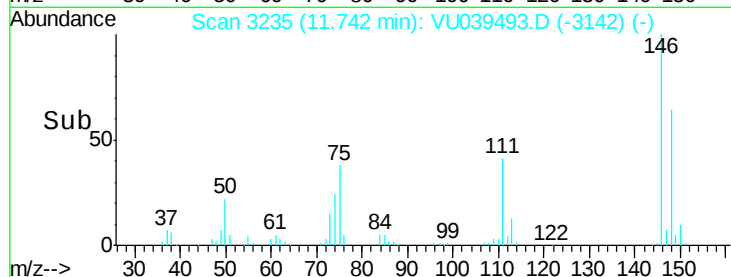
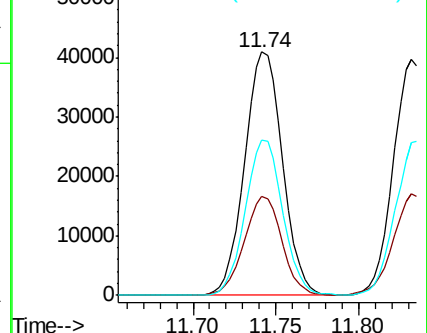
148 64.0 43.5 80.9



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



#63

1,4-Dichlorobenzene

Concen: 4.614 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

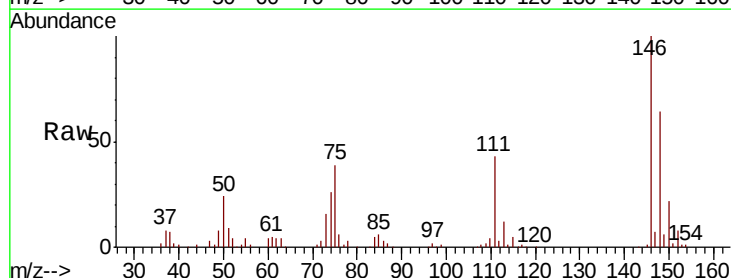
Tgt Ion:146 Resp: 64567

Ion Ratio Lower Upper

146 100

111 42.8 28.6 53.0

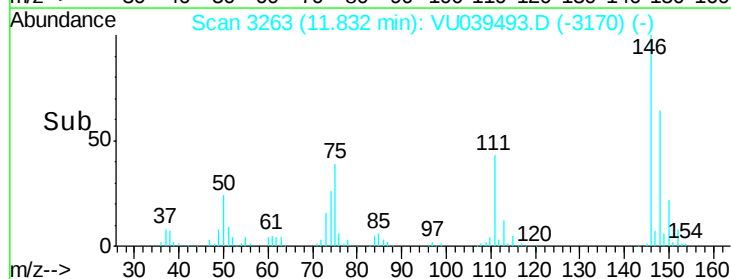
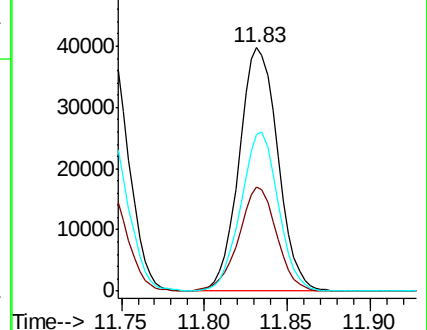
148 64.5 45.0 83.6

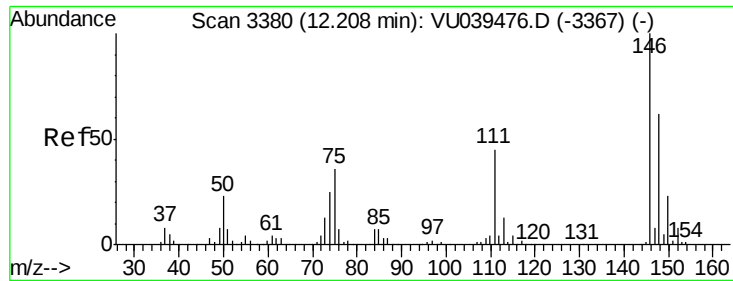


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.706 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

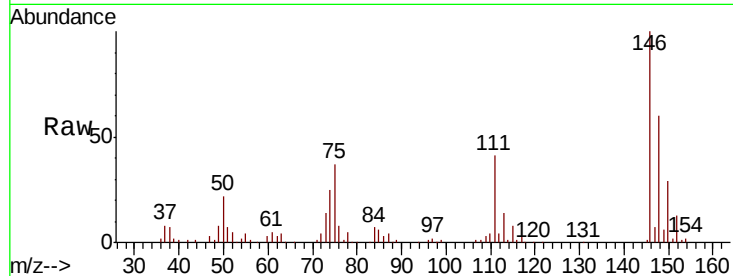
Tot Ion:146 Resp: 65800

Ion Ratio Lower Upper

146 100

111 41.1 35.0 52.4

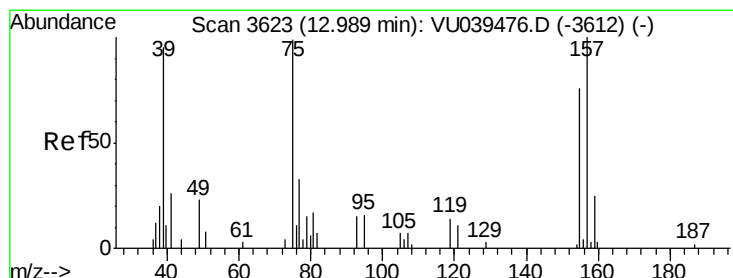
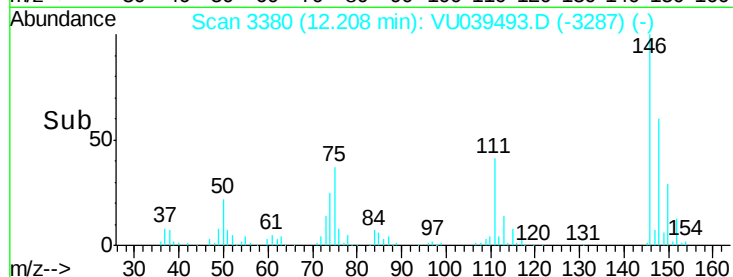
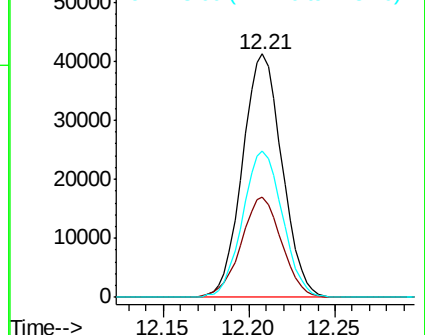
148 59.9 50.6 75.8



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: 4.466 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

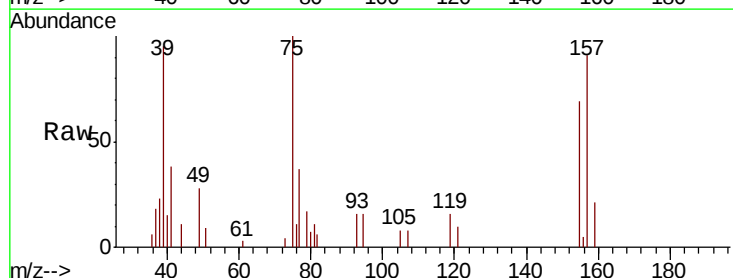
Tgt Ion: 75 Resp: 5516

Ion Ratio Lower Upper

75 100

155 69.5 51.9 77.9

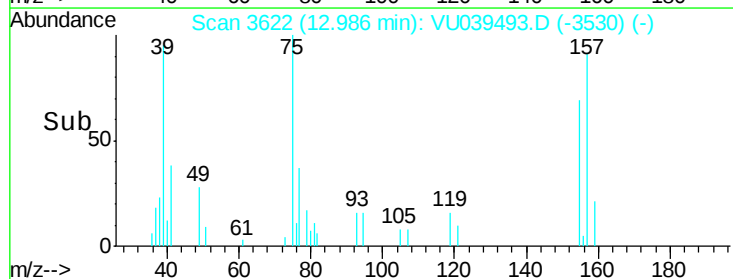
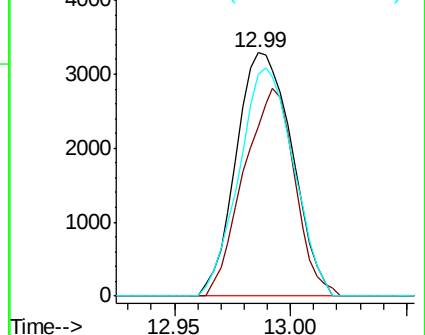
157 91.4 63.2 94.8

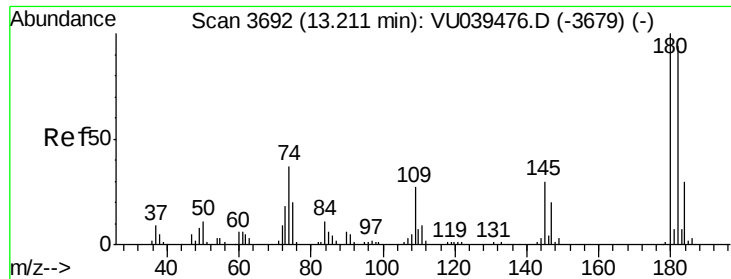


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

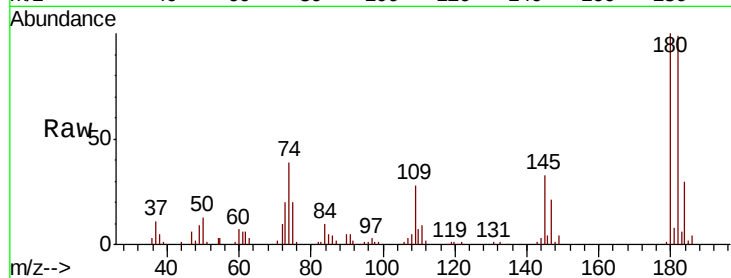




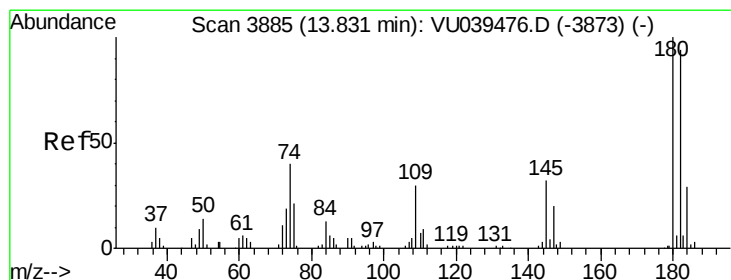
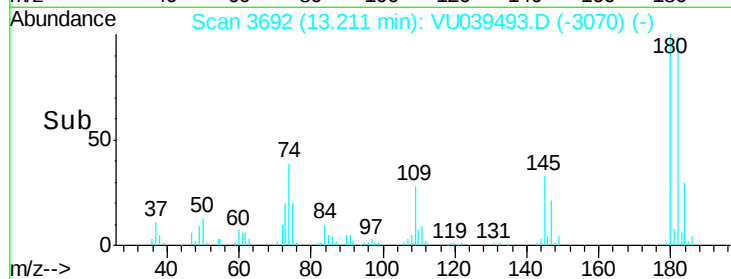
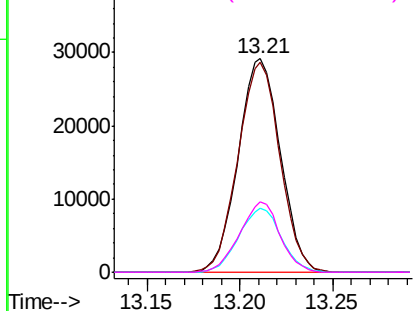
#67
 1,3,5-Trichlorobenzene
 Concen: 4.409 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Tot Ion:180 Resp: 46020
 Ion Ratio Lower Upper
 180 100
 182 97.6 76.2 114.4
 184 30.1 24.2 36.4
 145 31.4 24.2 36.2

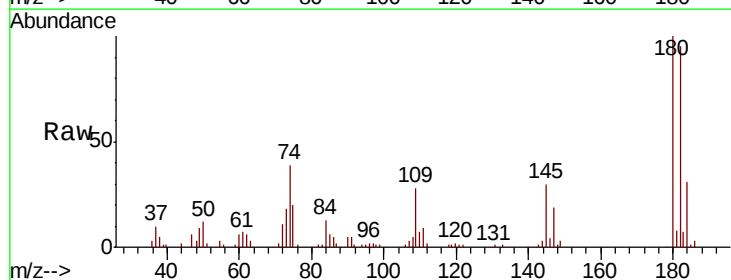


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

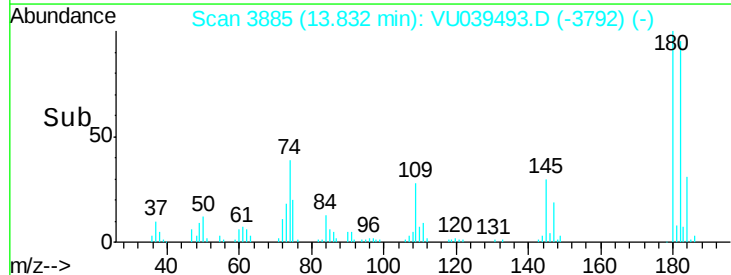
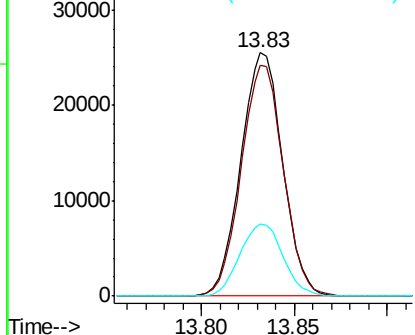


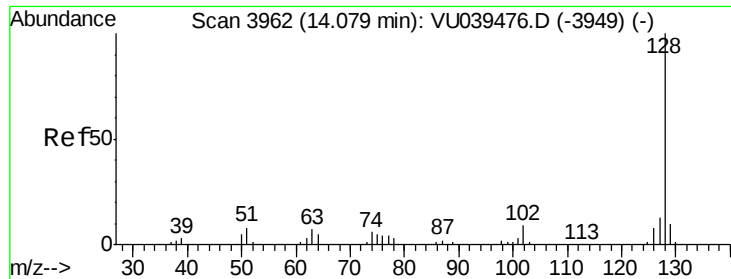
#68
 1,2,4-trichlorobenzene
 Concen: 4.461 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU039493.D
 Acq: 14 Jul 2020 18:34

Tgt Ion:180 Resp: 39842
 Ion Ratio Lower Upper
 180 100
 182 95.3 79.4 119.2
 145 30.6 26.4 39.6



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: 3.962 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

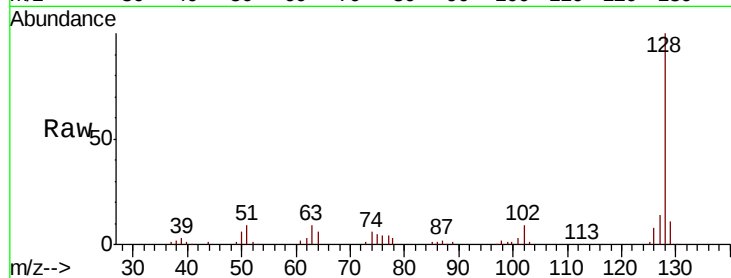
Tot Ion:128 Resp: 71212

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

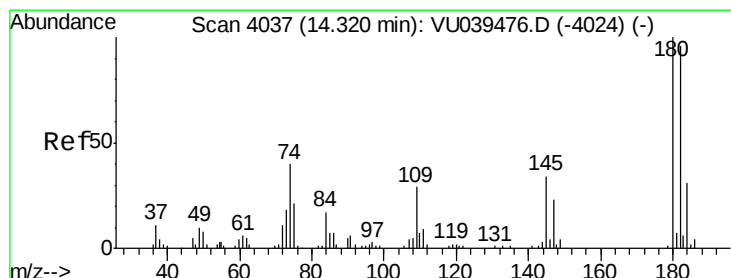
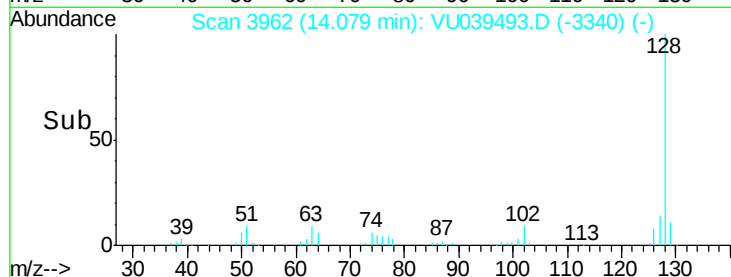
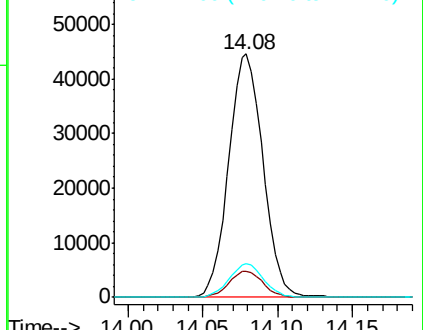
127 13.8 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.528 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU039493.D

Acq: 14 Jul 2020 18:34

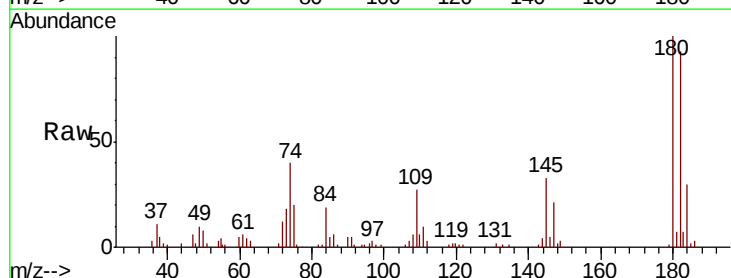
Tgt Ion:180 Resp: 37476

Ion Ratio Lower Upper

180 100

182 94.0 74.2 111.2

145 33.1 27.6 41.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

