

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042920\
 Data File : VU037924.D
 Acq On : 29 Apr 2020 19:59
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Quant Time: Apr 30 04:04:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 30 01:17:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	673758	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	661835	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	314656	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	223525	37.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.94%
7) Chloroethane-d5	1.93	69	202777	44.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.88%
11) 1,1-Dichloroethene-d2	2.59	63	410535	43.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.16%
21) 2-Butanone-d5	4.66	46	452274	96.96	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.96%
24) Chloroform-d	5.10	84	415308	46.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.64%
26) 1,2-Dichloroethane-d4	5.74	65	286772	46.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.38%
32) Benzene-d6	5.76	84	846855	45.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.50%
36) 1,2-Dichloropropane-d6	6.72	67	291423	46.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.10%
41) Toluene-d8	7.92	98	761678	44.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.56%
43) trans-1,3-Dichloropropene-	8.20	79	136451	42.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.70%
47) 2-Hexanone-d5	8.65	63	318984	93.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.61%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	442843	50.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.70%
64) 1,2-Dichlorobenzene-d4	12.20	152	294823	48.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	239469	43.081	ug/L 100
3) Chloromethane	1.53	50	308051	50.847	ug/L 99
5) Vinyl chloride	1.62	62	318382	47.630	ug/L 98
6) Bromomethane	1.86	94	160486	58.023	ug/L 97
8) Chloroethane	1.95	64	190206	50.645	ug/L 100
9) Trichlorofluoromethane	2.16	101	334022	46.999	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	206749	49.919	ug/L 98
12) 1,1-Dichloroethene	2.60	96	212275	51.895	ug/L 86
13) Acetone	2.65	43	279863	100.563	ug/L 99
14) Carbon disulfide	2.82	76	636394	43.502	ug/L 99
15) Methyl Acetate	2.98	43	315421	46.893	ug/L 97
16) Methylene chloride	3.08	84	251196	51.681	ug/L 94
17) trans-1,2-Dichloroethene	3.38	96	226520	49.527	ug/L 94
18) Methyl tert-butyl Ether	3.40	73	801616	50.882	ug/L 99
19) 1,1-Dichloroethane	3.91	63	470083	50.988	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	259736	51.868	ug/L 93
22) 2-Butanone	4.74	43	466515	95.733	ug/L 97

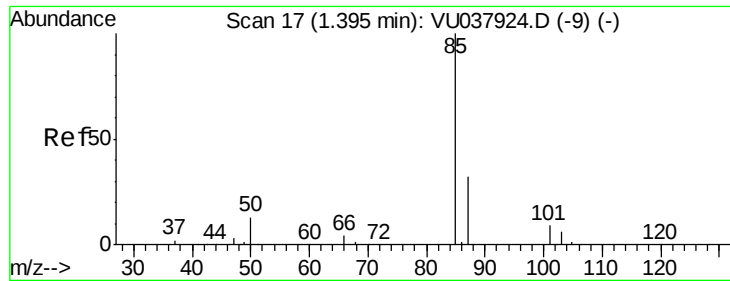
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	124292	51.365	ug/L	94
25) Chloroform	5.13	83	451974	52.394	ug/L	100
27) 1,2-Dichloroethane	5.83	62	370214	50.109	ug/L	99
29) Cyclohexane	5.42	56	415161	44.839	ug/L	95
30) 1,1,1-Trichloroethane	5.35	97	367990	49.787	ug/L	100
31) Carbon tetrachloride	5.56	117	290836	48.675	ug/L	99
33) Benzene	5.81	78	1012214	50.389	ug/L	100
34) Trichloroethene	6.57	95	243215	49.360	ug/L	98
35) Methylcyclohexane	6.79	83	397914	46.119	ug/L	96
37) 1,2-Dichloropropane	6.82	63	278309	50.726	ug/L	99
38) Bromodichloromethane	7.13	83	335334	50.588	ug/L	97
39) cis-1,3-Dichloropropene	7.63	75	424261	48.297	ug/L	97
40) 4-Methyl-2-pentanone	7.82	43	893235	93.616	ug/L	96
42) Toluene	7.99	91	1073632	50.976	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	408659	48.196	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	253112	52.884	ug/L	99
46) Tetrachloroethene	8.57	164	163452	45.384	ug/L	99
48) 2-Hexanone	8.71	43	713076	94.520	ug/L	96
49) Dibromochloromethane	8.83	129	248950	49.813	ug/L	99
50) 1,2-Dibromoethane	8.94	107	262349	50.602	ug/L	100
51) Chlorobenzene	9.47	112	666157	50.851	ug/L	100
52) Ethylbenzene	9.59	91	1197311	50.764	ug/L	99
53) m,p-Xylene	9.71	106	454116	51.138	ug/L	99
54) o-xylene	10.12	106	451952	52.039	ug/L	99
55) Styrene	10.13	104	771825	51.676	ug/L	99
56) Isopropylbenzene	10.50	105	1161481	50.533	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	447538	52.576	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	375025	50.884	ug/L	100
61) Bromoform	10.31	173	171325	48.381	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	496543	50.401	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	501879	50.472	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	502497	52.489	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	107782	50.517	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	338804	47.321	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	331814	47.652	ug/L	99
69) Naphthalene	14.11	128	1328430	53.202	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	340219	49.480	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.081 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

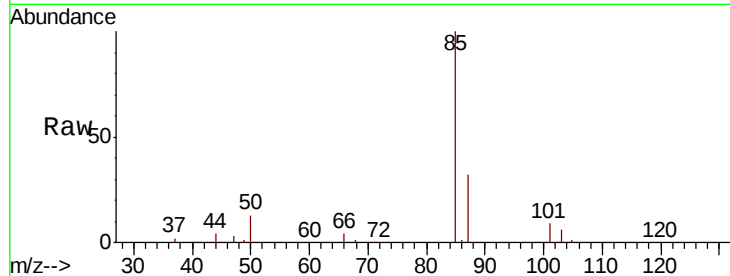
VSTD05053

Tot Ion: 85 Resp: 239469

Ion Ratio Lower Upper

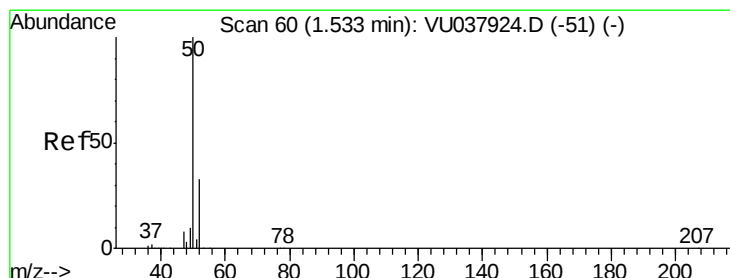
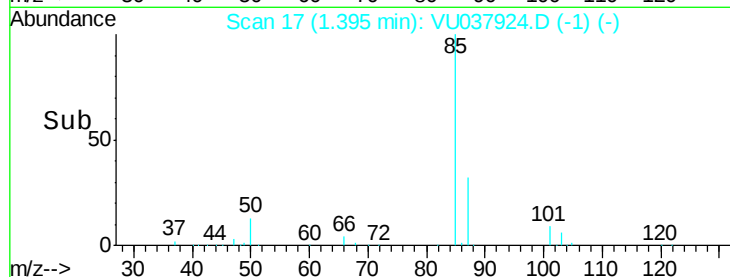
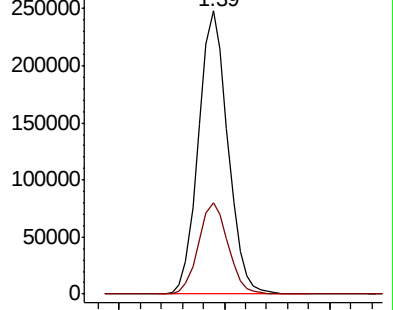
85 100

87 32.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU037924.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037924.D (-9) (-)



#3

Chloromethane

Concen: 50.847 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037924.D

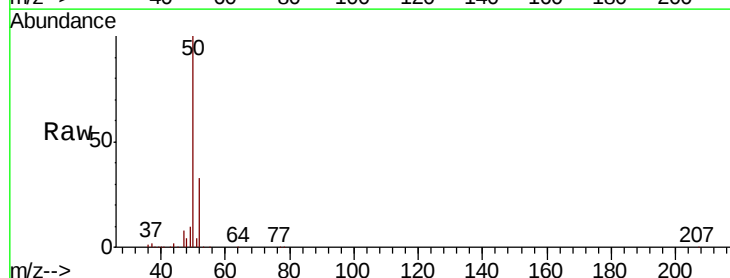
Acq: 29 Apr 2020 19:59

Tgt Ion: 50 Resp: 308051

Ion Ratio Lower Upper

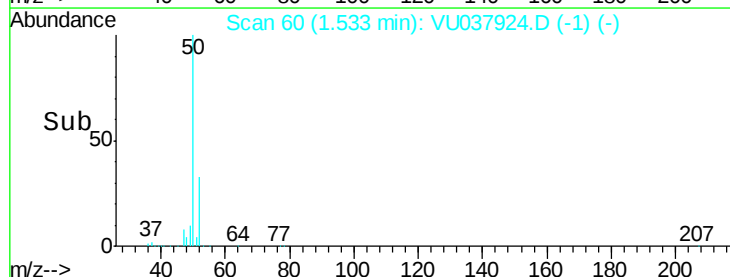
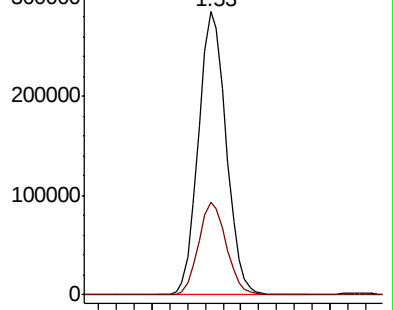
50 100

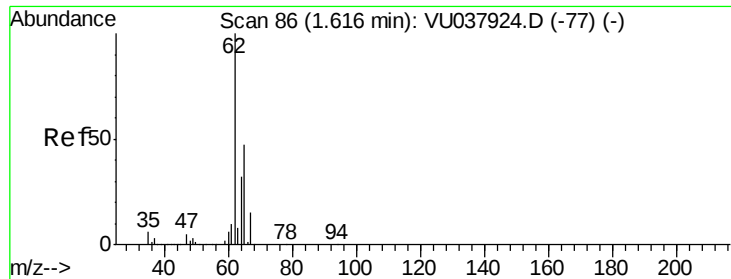
52 32.6 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU037924.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU037924.D (-51) (-)





#5

Vinyl chloride

Concen: 47.630 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

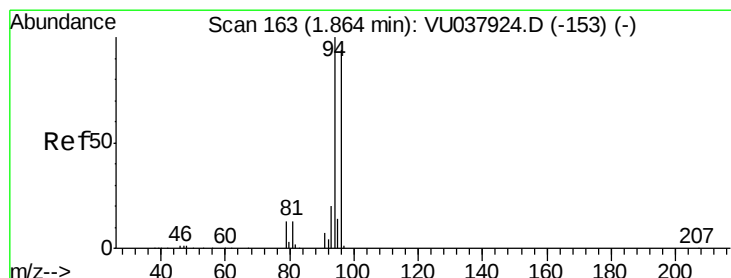
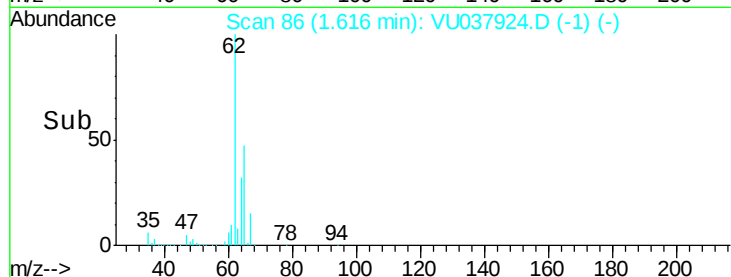
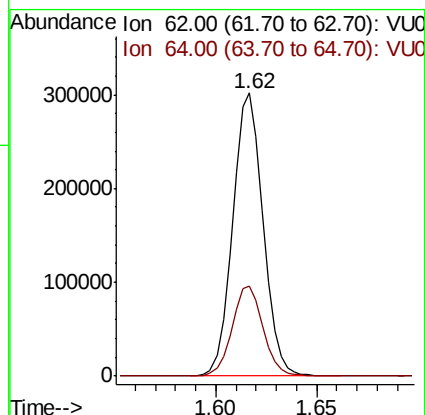
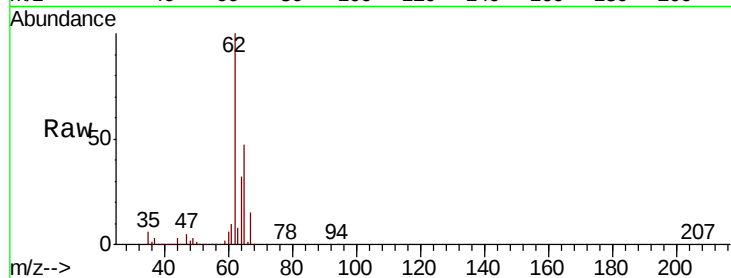
VSTD05053

Tot Ion: 62 Resp: 318382

Ion Ratio Lower Upper

62 100

64 32.0 23.2 43.0



#6

Bromomethane

Concen: 58.023 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU037924.D

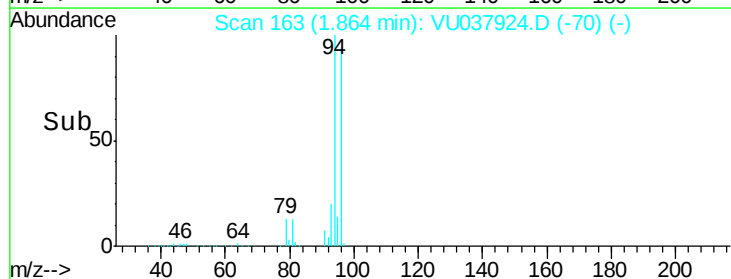
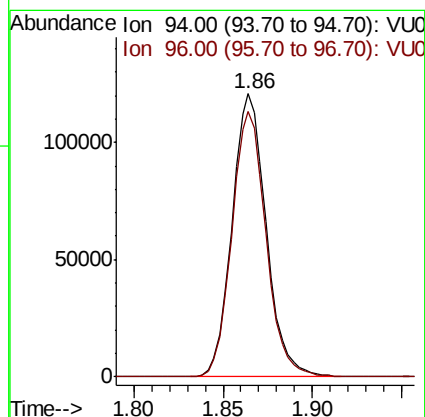
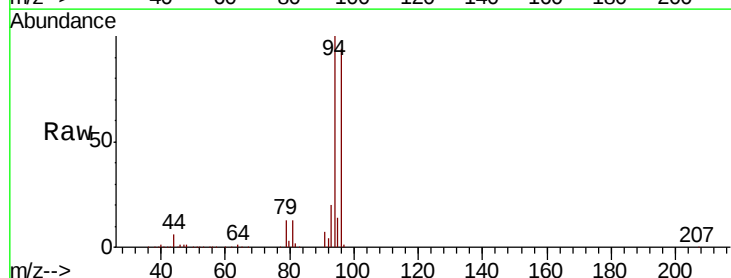
Acq: 29 Apr 2020 19:59

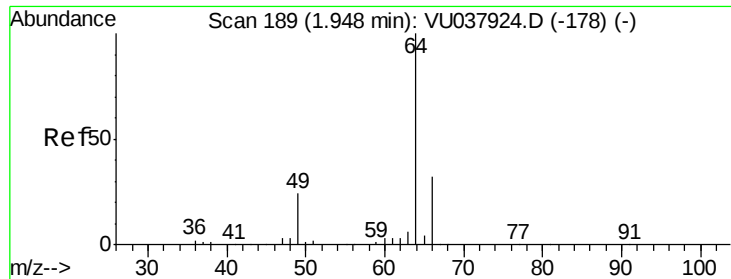
Tgt Ion: 94 Resp: 160486

Ion Ratio Lower Upper

94 100

96 93.9 63.9 118.7

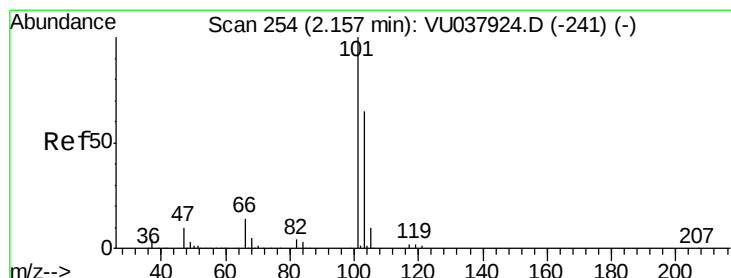
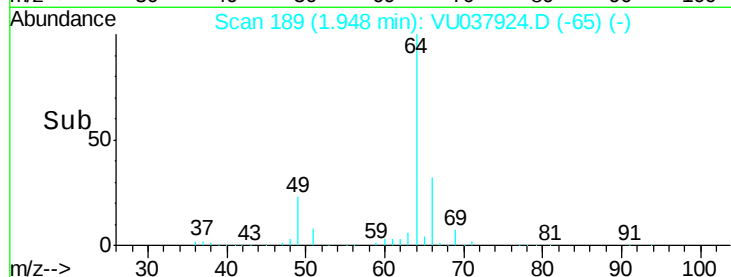
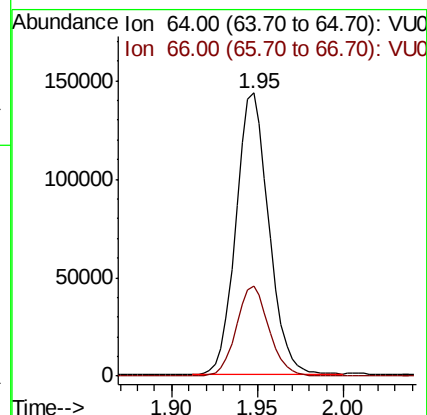
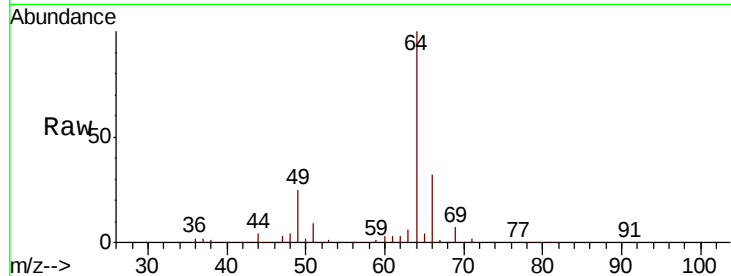




#8
Chloroethane
Concen: 50.645 ug/L
RT: 1.95 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

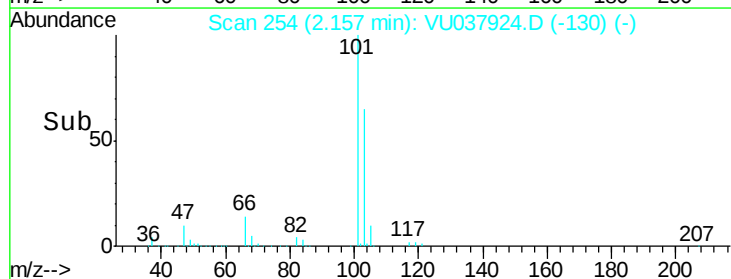
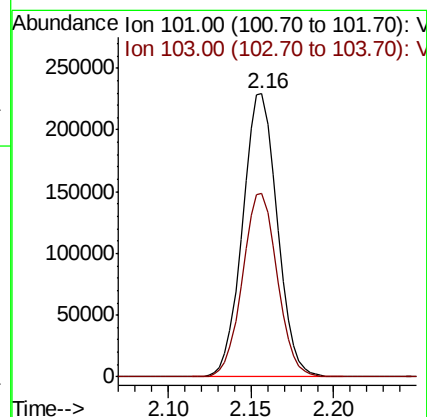
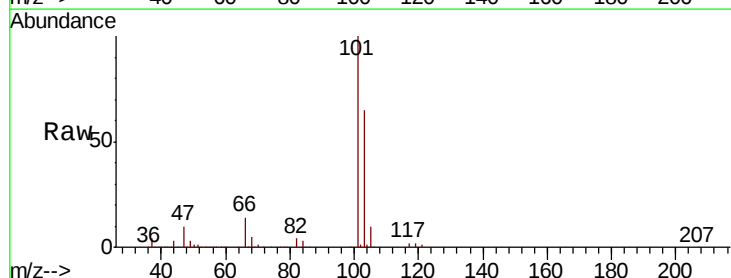
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

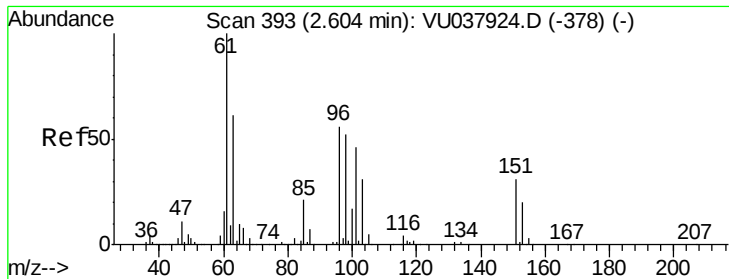
Tot Ion: 64 Resp: 190206
Ion Ratio Lower Upper
64 100
66 31.7 22.3 41.3



#9
Trichlorofluoromethane
Concen: 46.999 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

Tgt Ion:101 Resp: 334022
Ion Ratio Lower Upper
101 100
103 65.0 52.2 78.4





#10

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

Concen: 49.919 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

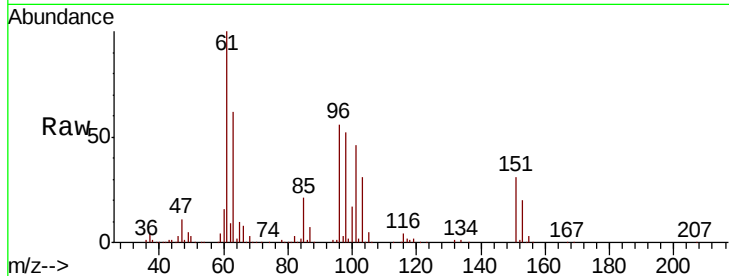
Tot Ion:101 Resp: 206749

Ion Ratio Lower Upper

101 100

85 44.3 36.2 54.4

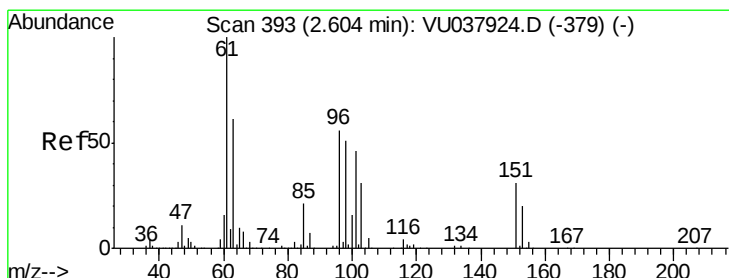
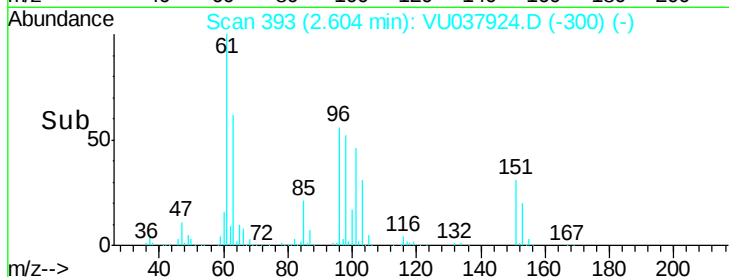
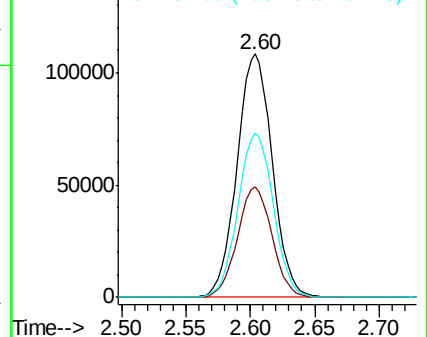
151 67.5 55.5 83.3



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: 51.895 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

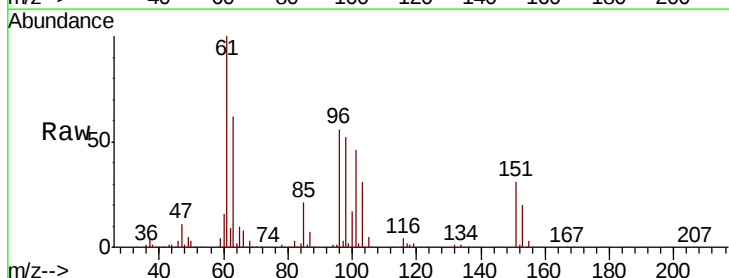
Tgt Ion: 96 Resp: 212275

Ion Ratio Lower Upper

96 100

61 180.1 134.1 249.0

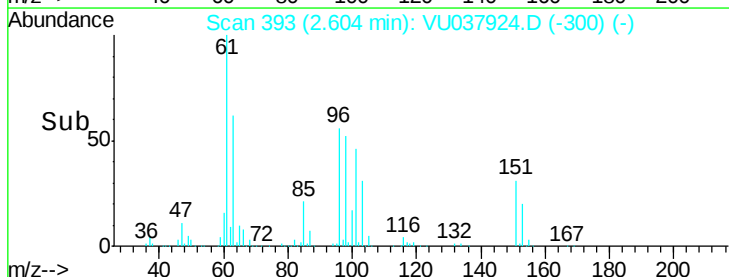
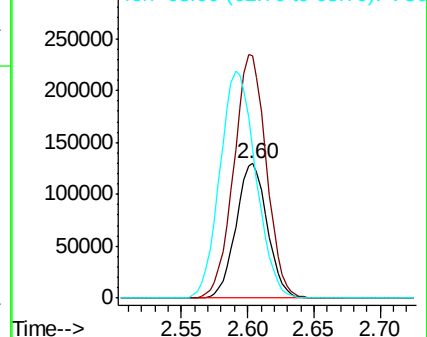
63 111.0 96.5 179.1

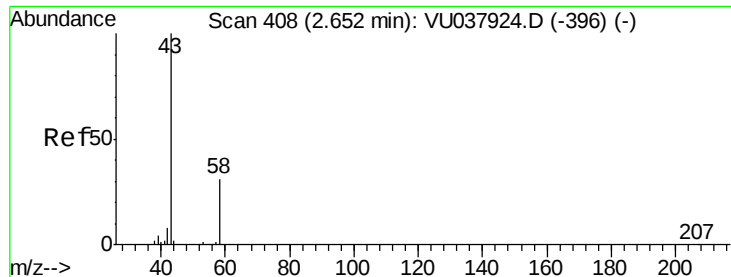


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.563 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU037924.D

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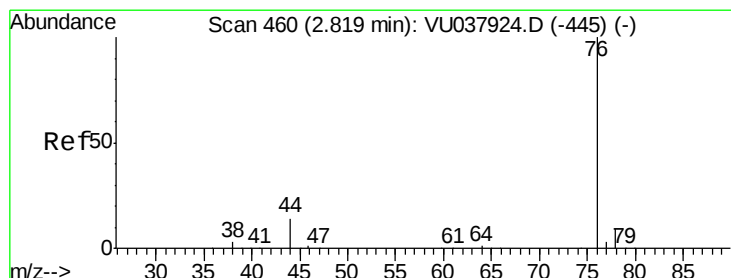
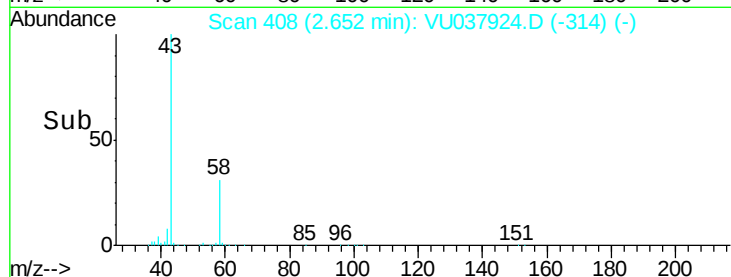
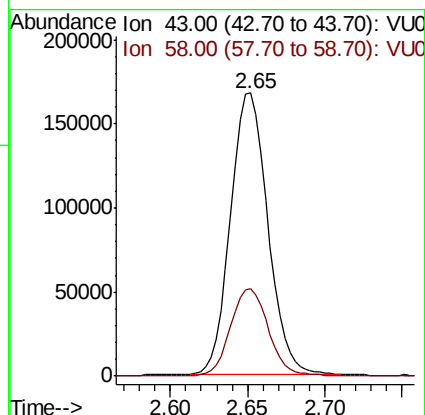
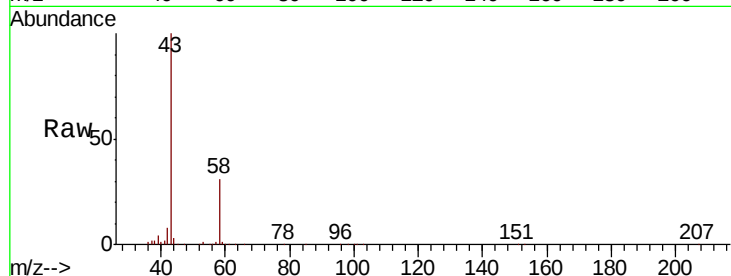
VSTD05053

Tot Ion: 43 Resp: 279863

Ion Ratio Lower Upper

43 100

58 31.7 0.0 62.0



#14

Carbon disulfide

Concen: 43.502 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037924.D

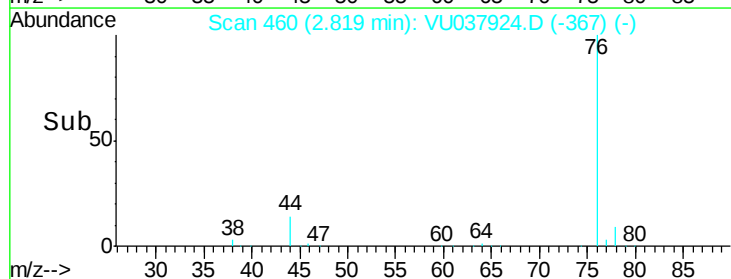
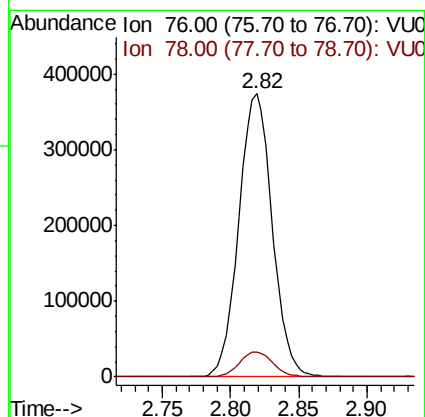
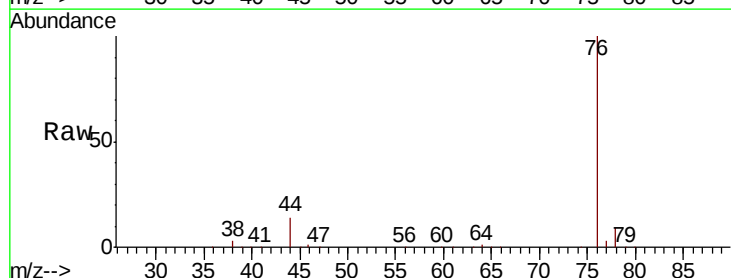
Acq: 29 Apr 2020 19:59

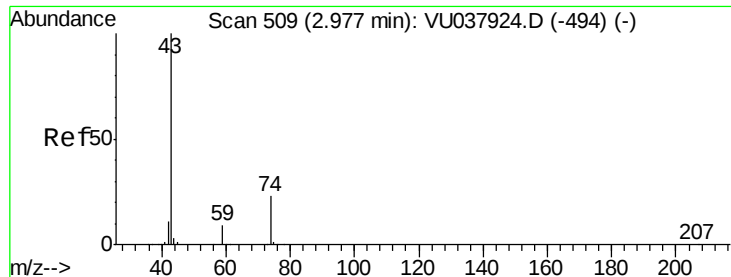
Tgt Ion: 76 Resp: 636394

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0





#15

Methvl Acetate

Concen: 46.893 ug/L

RT: 2.98 min Scan# 509

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

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ClientSampleId :

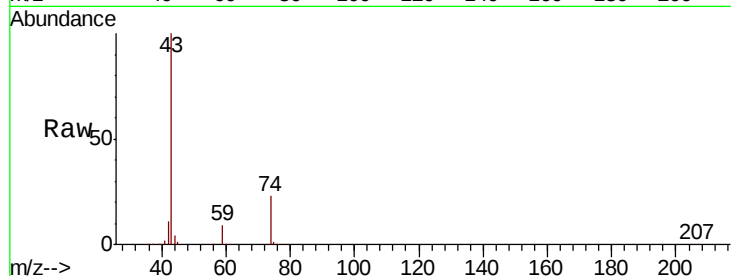
VSTD05053

Tot Ion: 43 Resp: 315421

Ion Ratio Lower Upper

43 100

74 22.6 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VU037924.D (-494) (-)

Ion 74.00 (73.70 to 74.70): VU037924.D (-494) (-)

2.98

200000

150000

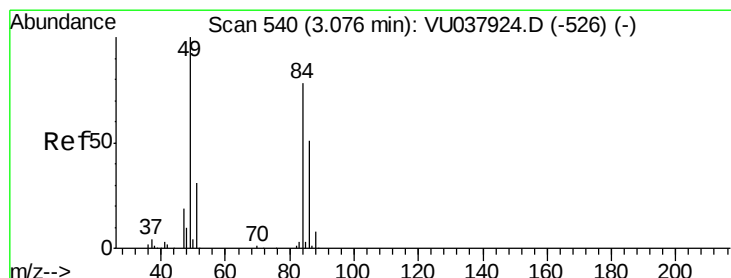
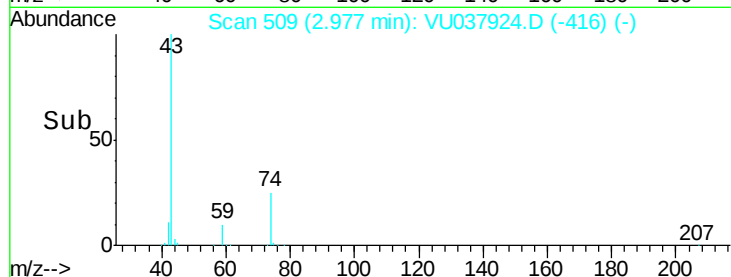
100000

50000

0

2.90 2.95 3.00 3.05

Time-->



#16

Methylene chloride

Concen: 51.681 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

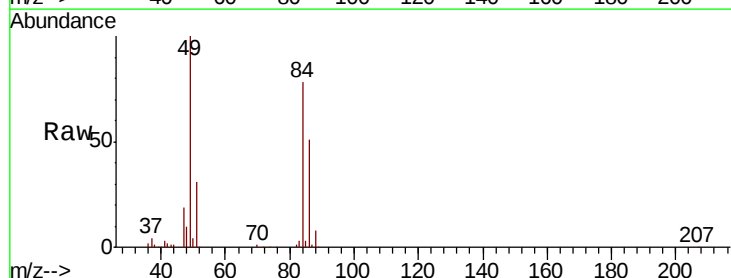
Tgt Ion: 84 Resp: 251196

Ion Ratio Lower Upper

84 100

86 64.7 43.5 80.7

49 127.9 95.1 176.7



Abundance Ion 84.00 (83.70 to 84.70): VU037924.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU037924.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU037924.D (-526) (-)

3.08

200000

150000

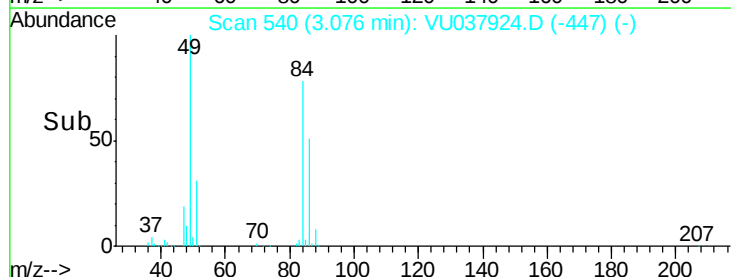
100000

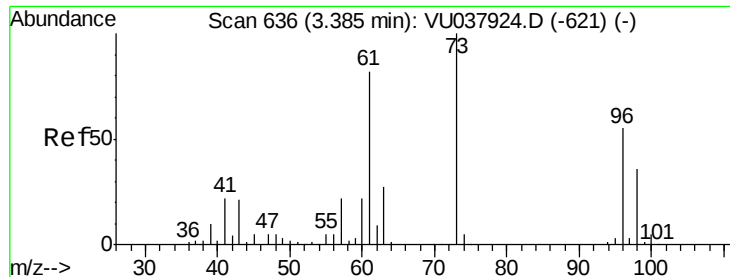
50000

0

3.00 3.05 3.10 3.15

Time-->





#17

trans-1,2-Dichloroethene

Concen: 49.527 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

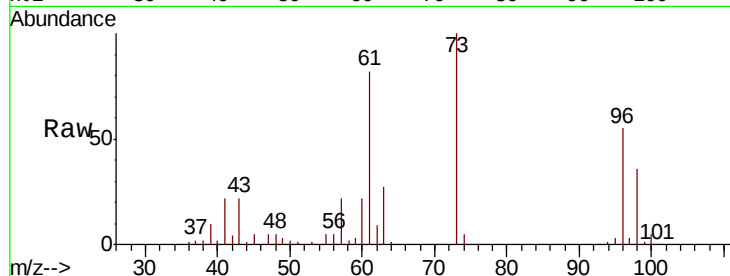
Tot Ion: 96 Resp: 226520

Ion Ratio Lower Upper

96 100

61 148.8 111.4 207.0

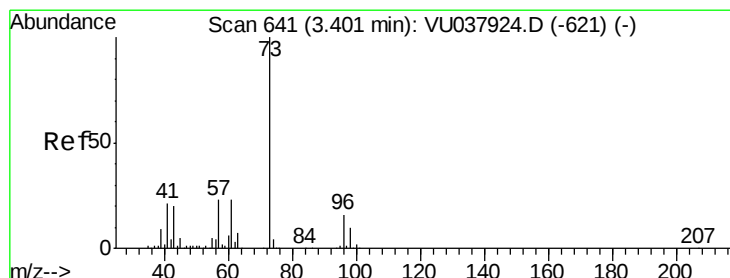
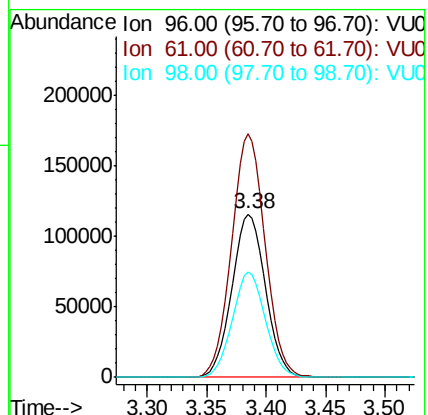
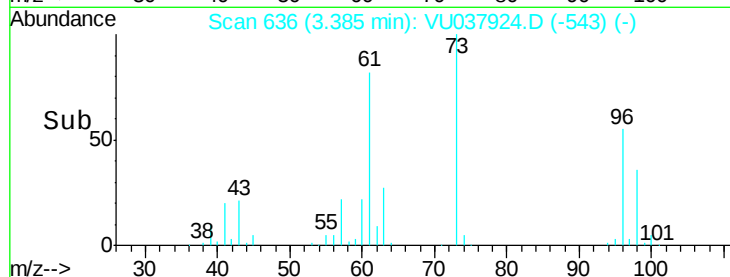
98 64.7 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU037924.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037924.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037924.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 50.882 ug/L

RT: 3.40 min Scan# 641

Delta R.T. 0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

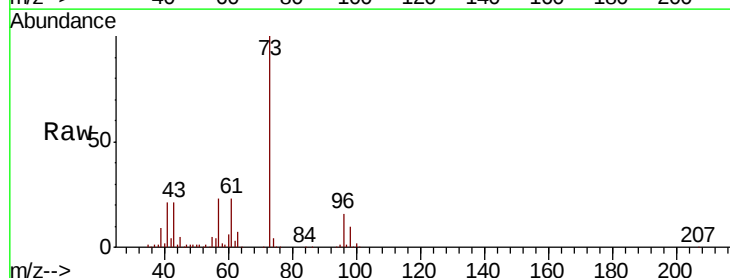
Tgt Ion: 73 Resp: 801616

Ion Ratio Lower Upper

73 100

43 20.6 17.0 25.6

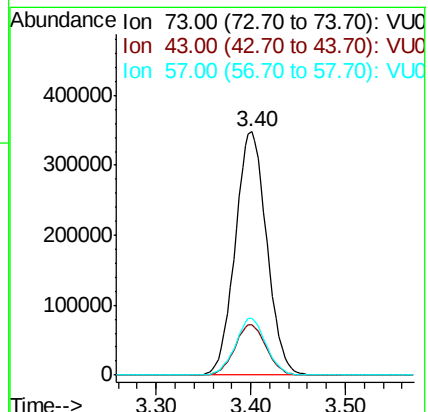
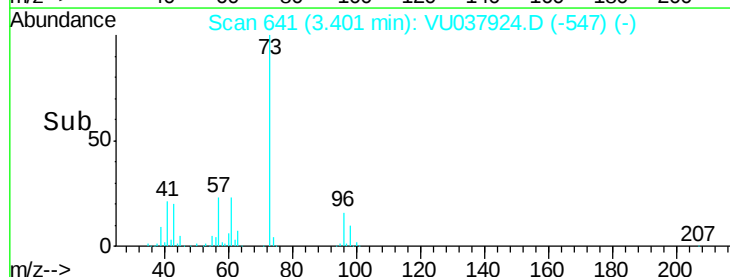
57 22.8 18.7 28.1

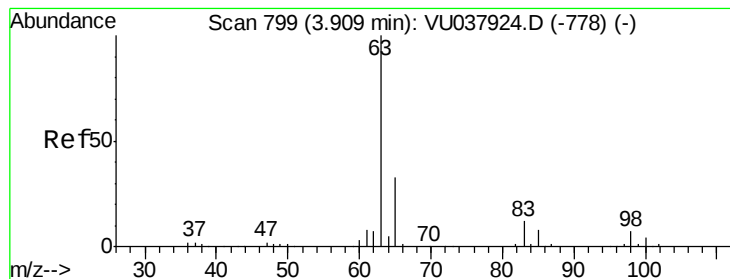


Abundance Ion 73.00 (72.70 to 73.70): VU037924.D (-547) (-)

Ion 43.00 (42.70 to 43.70): VU037924.D (-547) (-)

Ion 57.00 (56.70 to 57.70): VU037924.D (-547) (-)





#19

1,1-Dichloroethane

Concen: 50.988 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

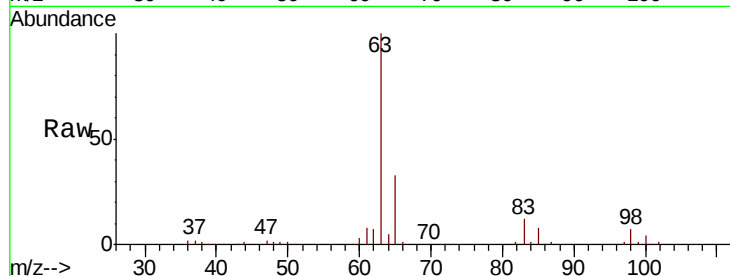
Tot Ion: 63 Resp: 470083

Ion Ratio Lower Upper

63 100

65 33.0 22.2 41.2

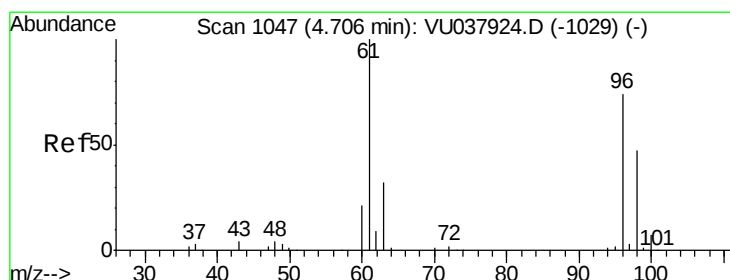
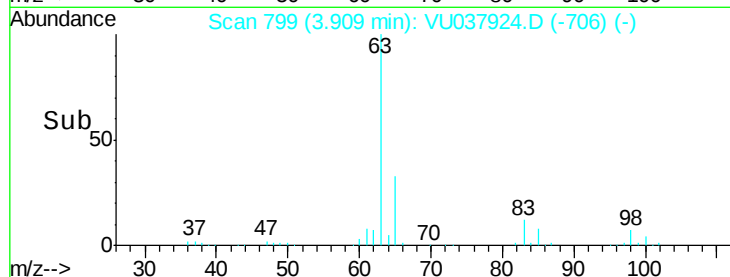
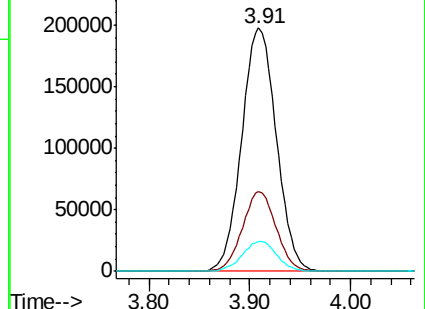
83 12.5 8.6 16.0



Abundance Ion 63.00 (62.70 to 63.70): VU037924.D (-778) (-)

Ion 65.00 (64.70 to 65.70): VU037924.D (-778) (-)

Ion 83.00 (82.70 to 83.70): VU037924.D (-778) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.868 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

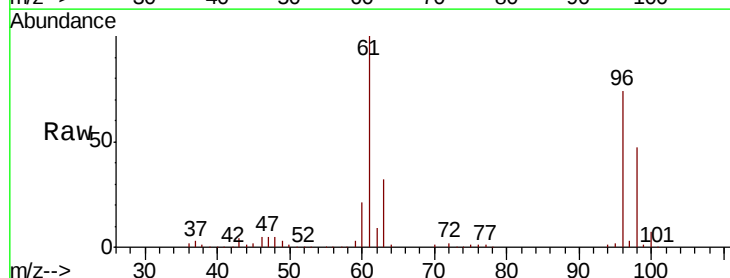
Tgt Ion: 96 Resp: 259736

Ion Ratio Lower Upper

96 100

61 134.7 100.4 186.4

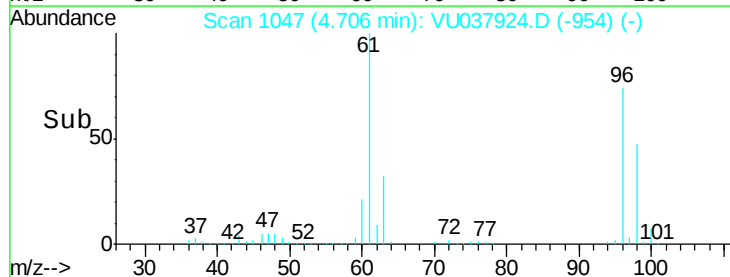
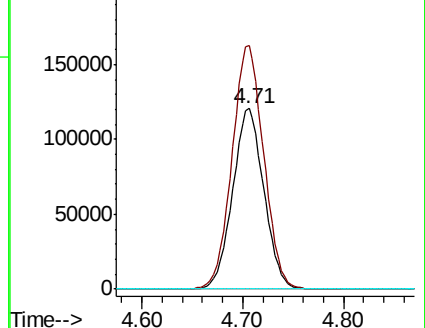
68 0.0 0.0 0.0

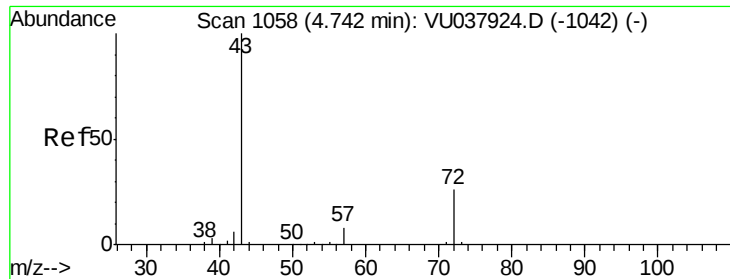


Abundance Ion 96.00 (95.70 to 96.70): VU037924.D (-1029) (-)

Ion 61.00 (60.70 to 61.70): VU037924.D (-1029) (-)

Ion 68.00 (67.70 to 68.70): VU037924.D (-1029) (-)





#22

2-Butanone

Concen: 95.733 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

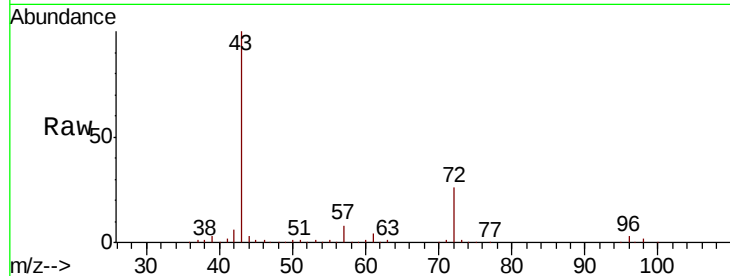
VSTD05053

Tot Ion: 43 Resp: 466515

Ion Ratio Lower Upper

43 100

72 26.6 12.6 37.6



Abundance Ion 43.00 (42.70 to 43.70): VU037924.D (-1042) (-)

Ion 72.00 (71.70 to 72.70): VU037924.D (-1042) (-)

4.74

250000

200000

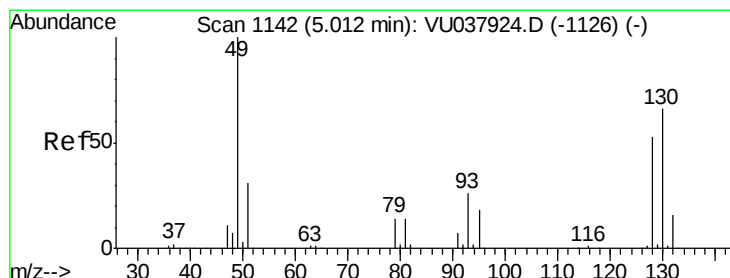
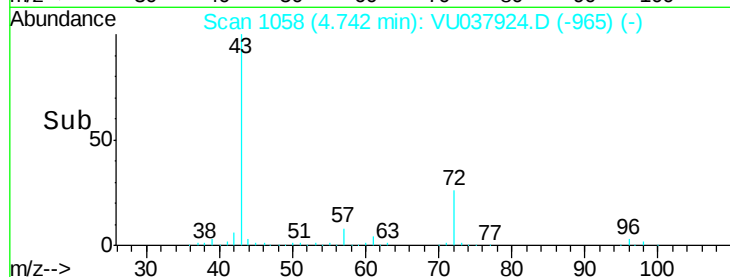
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 51.365 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Tgt Ion: 128 Resp: 124292

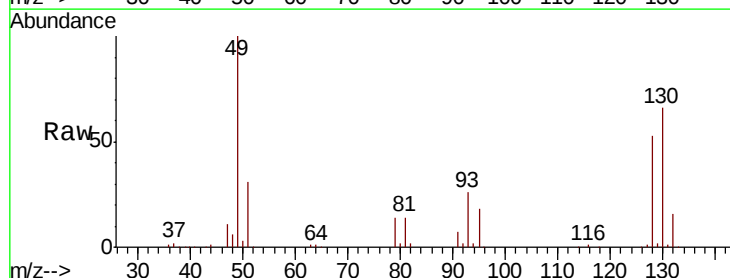
Ion Ratio Lower Upper

128 100

49 188.8 140.9 261.7

130 125.2 88.6 164.6

51 57.7 50.0 75.0



Abundance Ion 128.00 (127.70 to 128.70): VU037924.D (-1126) (-)

Ion 49.00 (48.70 to 49.70): VU037924.D (-1126) (-)

Ion 130.00 (129.70 to 130.70): VU037924.D (-1126) (-)

Ion 51.00 (50.70 to 51.70): VU037924.D (-1126) (-)

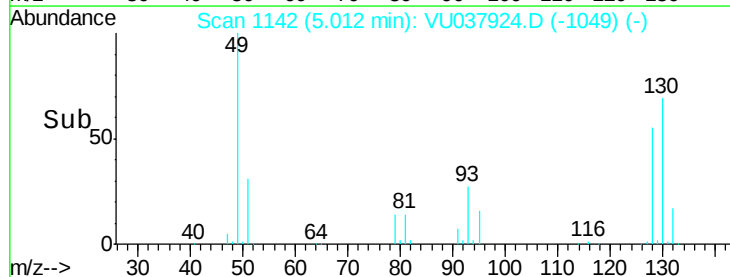
150000

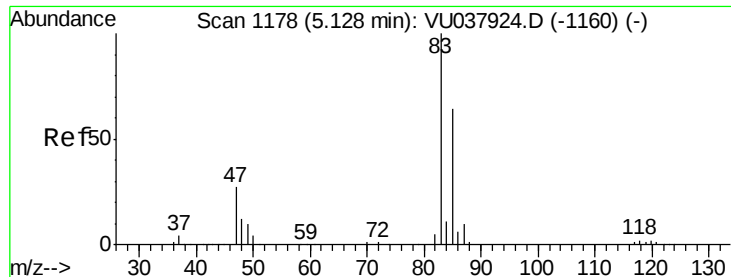
100000

50000

0

Time-->

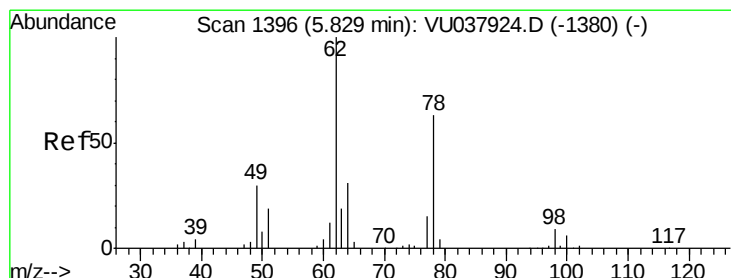
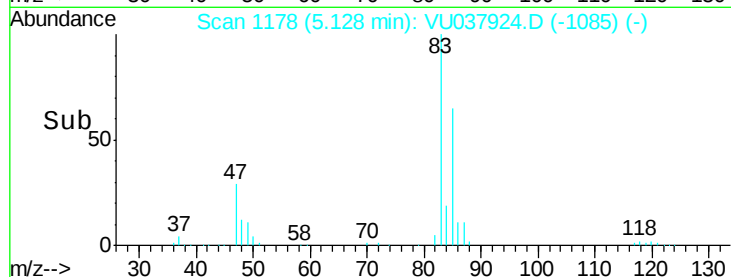
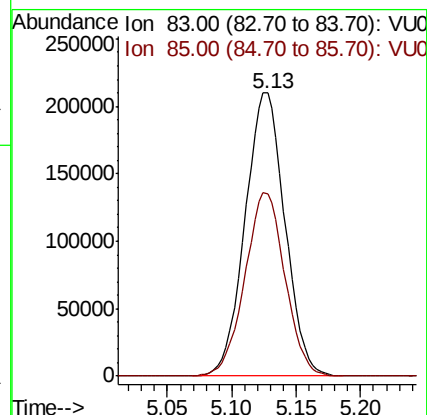
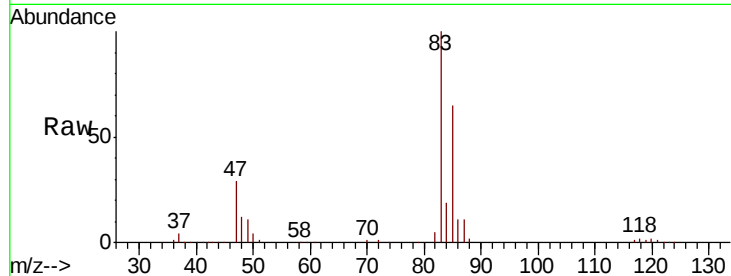




#25
Chloroform
Concen: 52.394 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

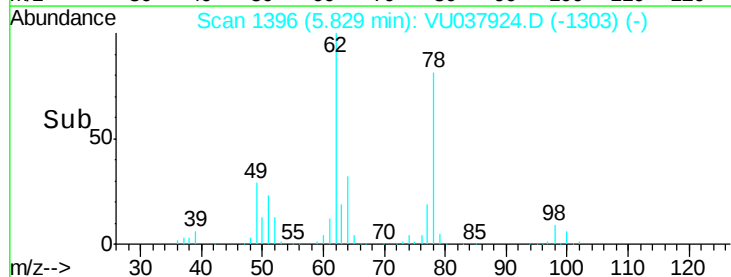
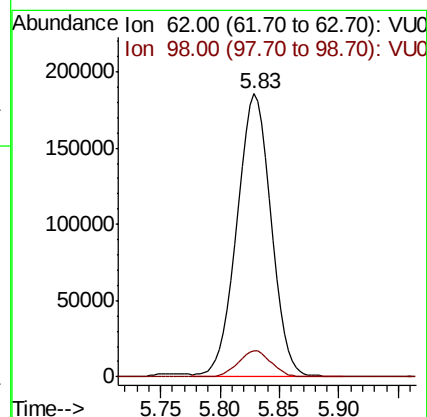
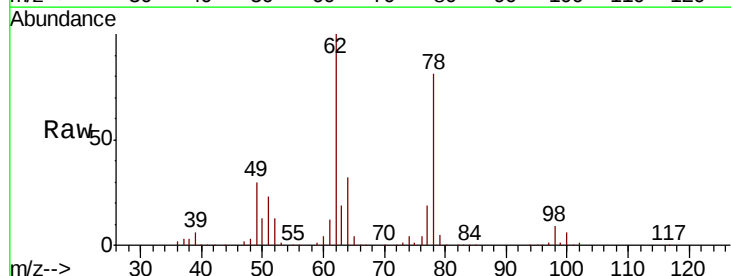
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

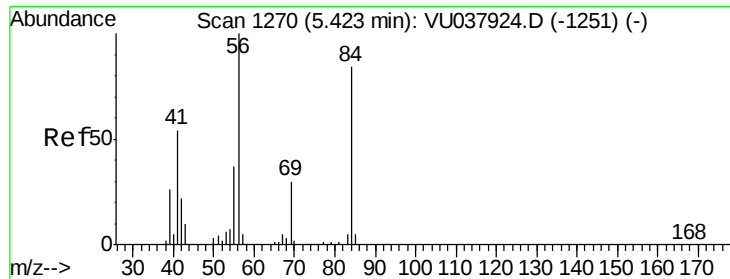
Tot Ion: 83 Resp: 451974
Ion Ratio Lower Upper
83 100
85 64.6 45.1 83.9



#27
1,2-Dichloroethane
Concen: 50.109 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

Tgt Ion: 62 Resp: 370214
Ion Ratio Lower Upper
62 100
98 9.3 7.3 10.9

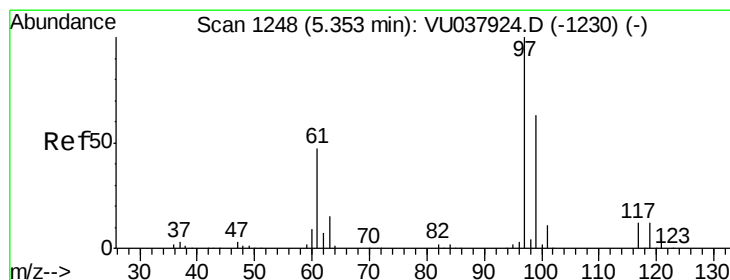
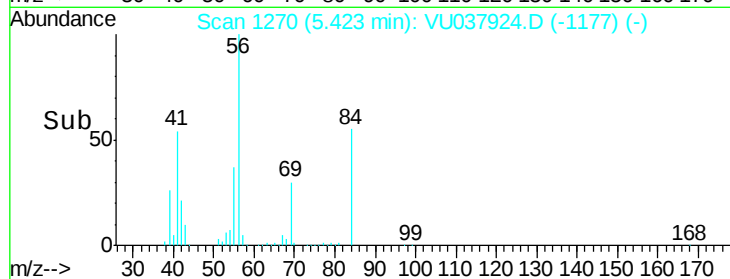
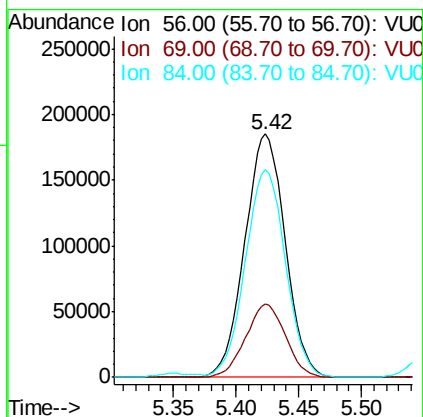
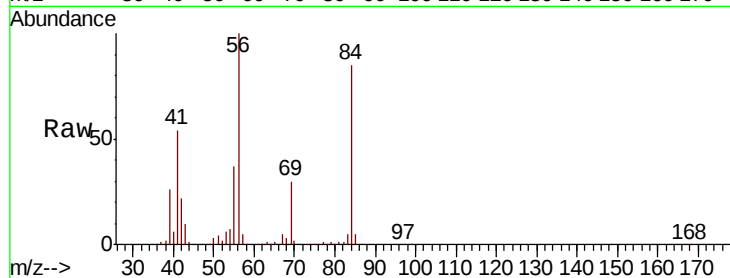




#29
Cyclohexane
Concen: 44.839 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

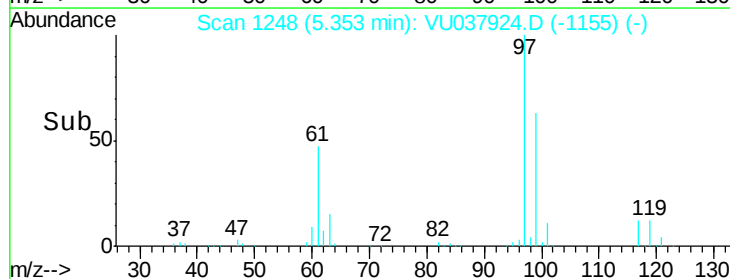
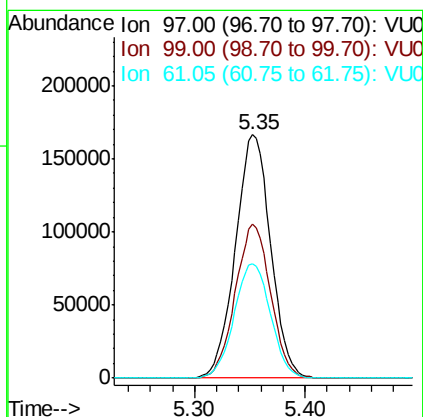
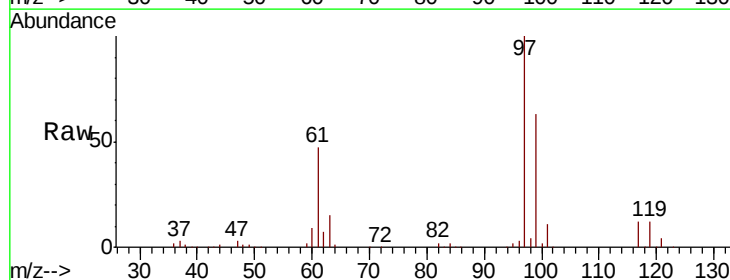
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

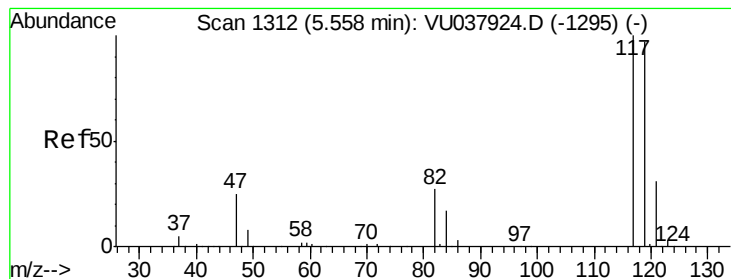
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.7	22.9	34.3
84	84.4	63.6	95.4



#30
1,1,1-Trichloroethane
Concen: 49.787 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.7	76.1
61	48.5	38.9	58.3





#31

Carbon tetrachloride

Concen: 48.675 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

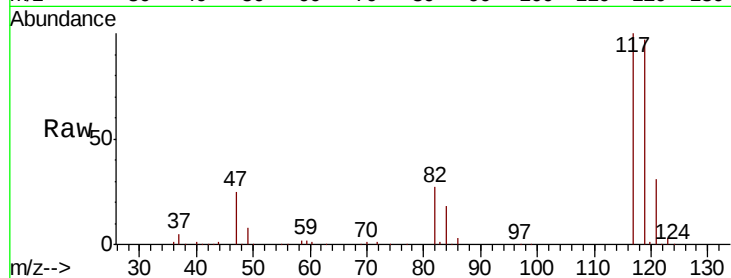
VSTD05053

Tot Ion:117 Resp: 290836

Ion Ratio Lower Upper

117 100

119 95.1 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

150000

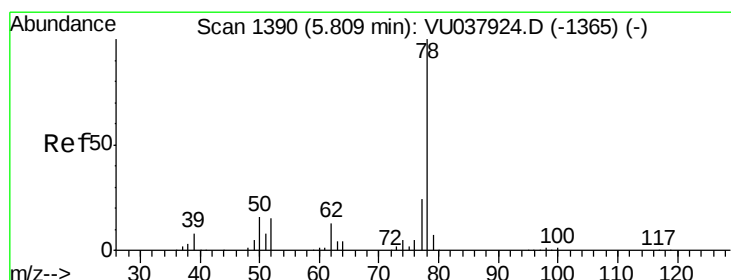
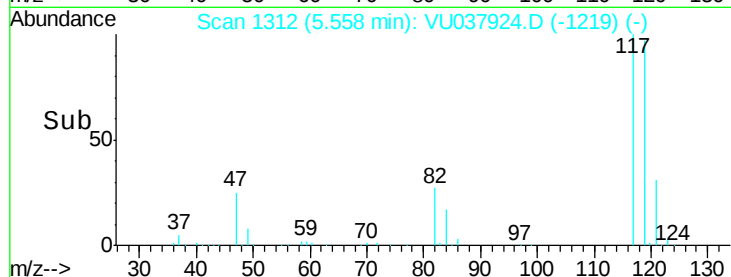
100000

50000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 50.389 ug/L

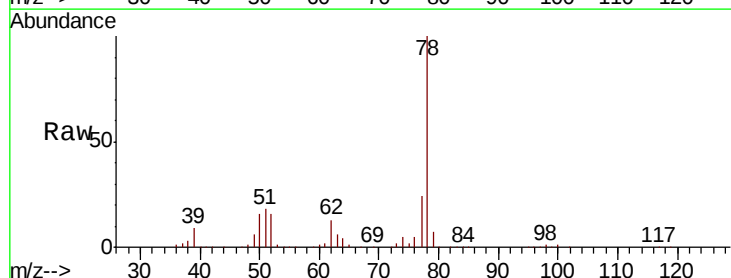
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Tgt Ion: 78 Resp: 1012214



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.81

500000

400000

300000

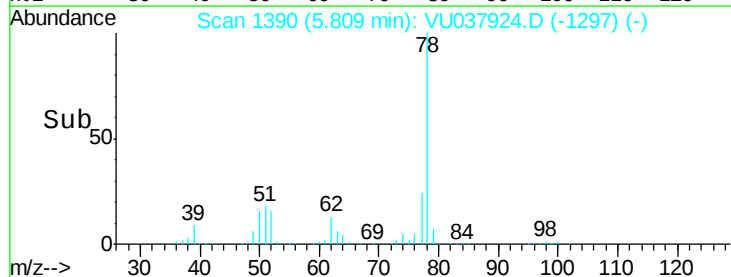
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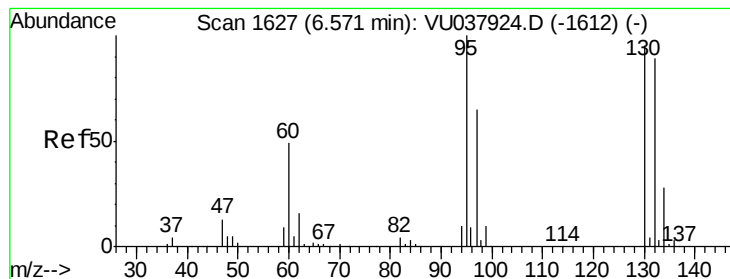
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 49.360 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

Tot Ion: 95 Resp: 243215

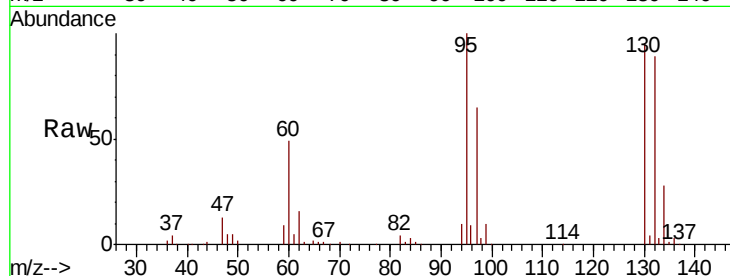
Ion Ratio Lower Upper

95 100

97 64.7 44.4 82.5

132 88.7 65.0 120.6

130 94.8 65.5 121.7

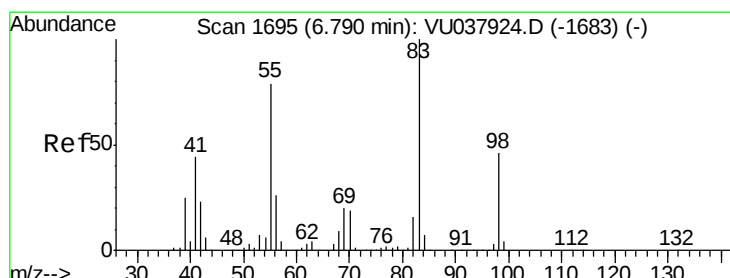
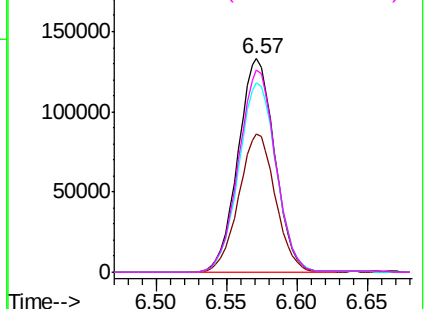
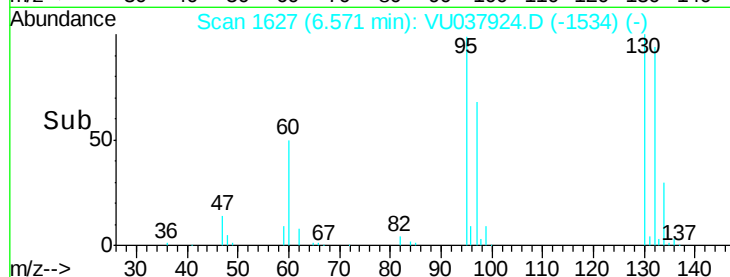


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 46.119 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

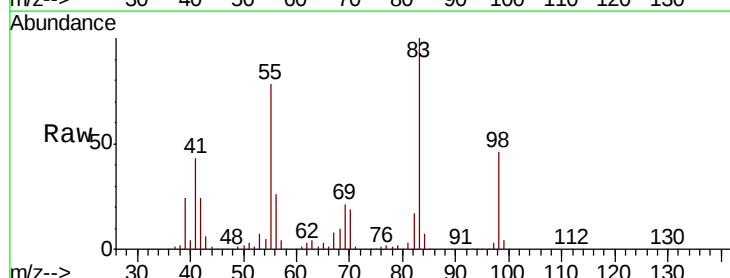
Tgt Ion: 83 Resp: 397914

Ion Ratio Lower Upper

83 100

55 78.4 66.3 99.5

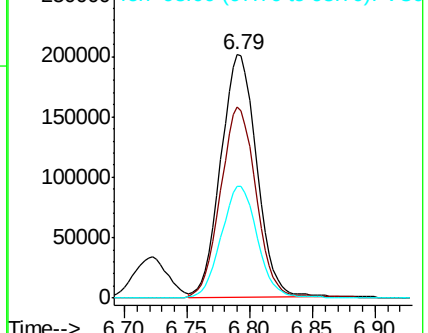
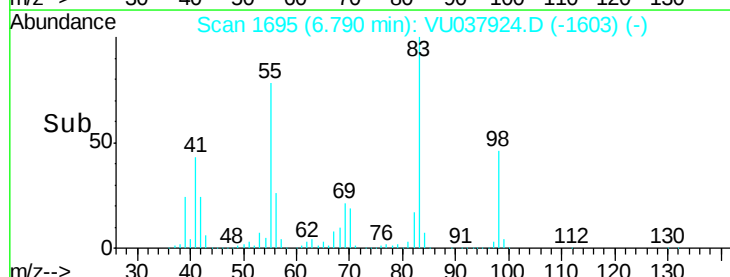
98 46.1 37.4 56.0

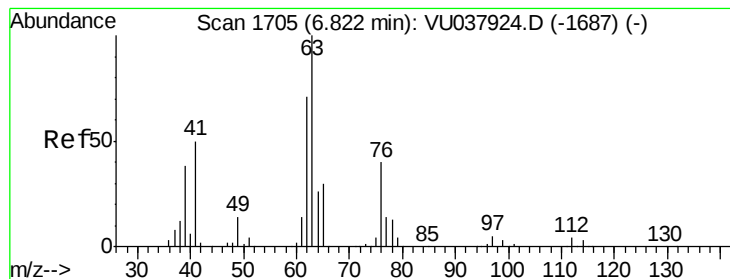


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 50.726 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

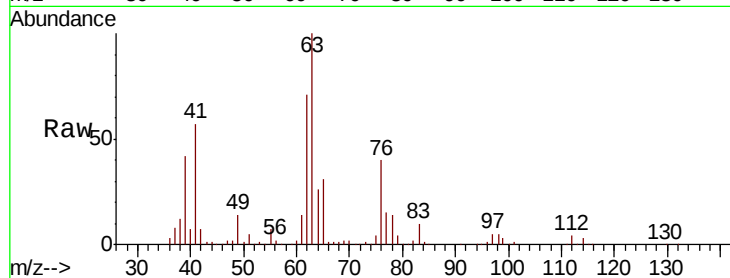
VSTD05053

Tot Ion: 63 Resp: 278309

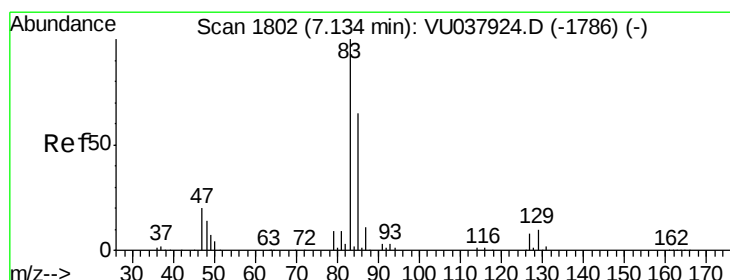
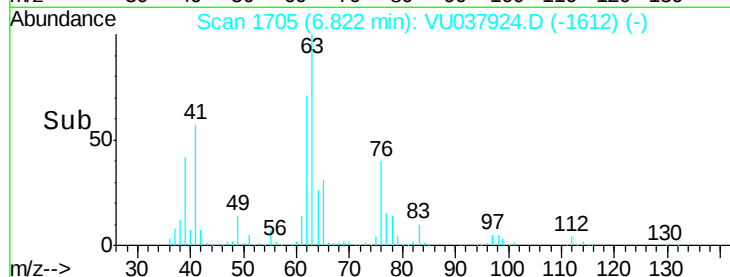
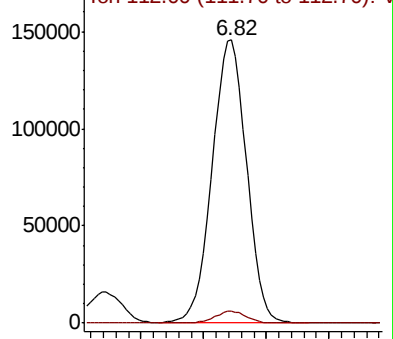
Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU037924.D (-1687) (-)



#38

Bromodichloromethane

Concen: 50.588 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

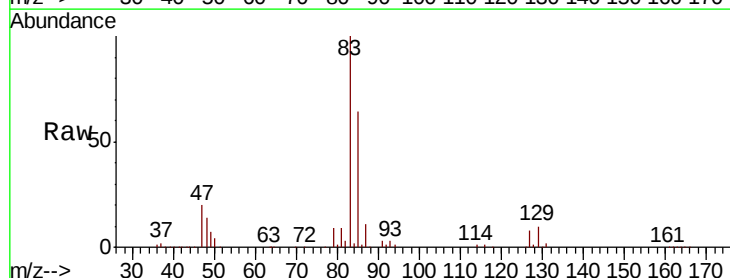
Tgt Ion: 83 Resp: 335334

Ion Ratio Lower Upper

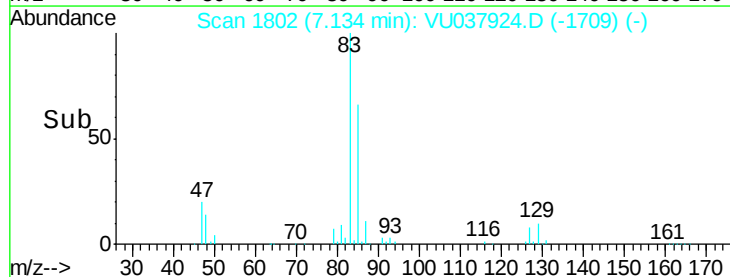
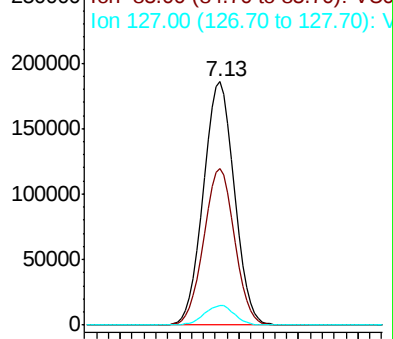
83 100

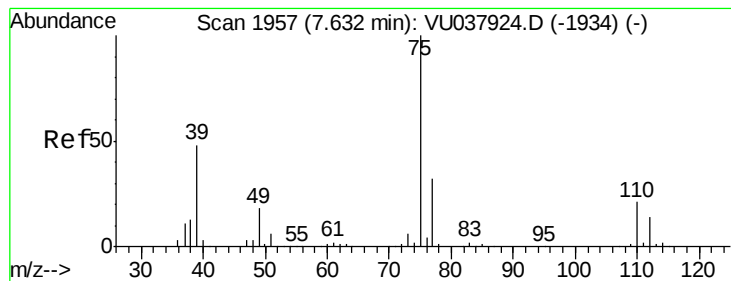
85 64.5 43.3 80.3

127 8.1 6.2 9.2



Abundance Ion 83.00 (82.70 to 83.70): VU037924.D (-1786) (-)



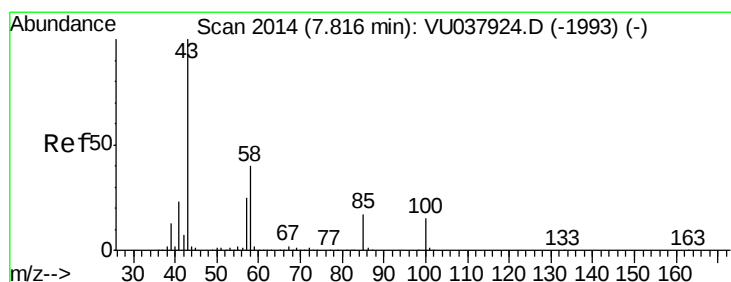
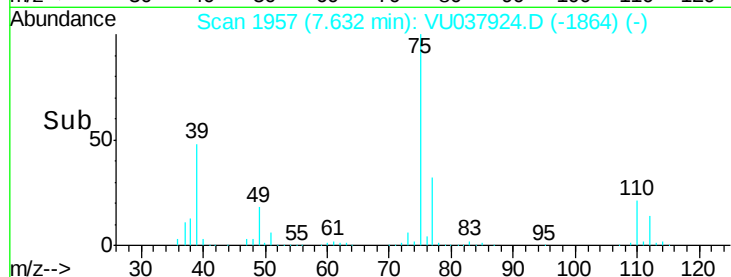
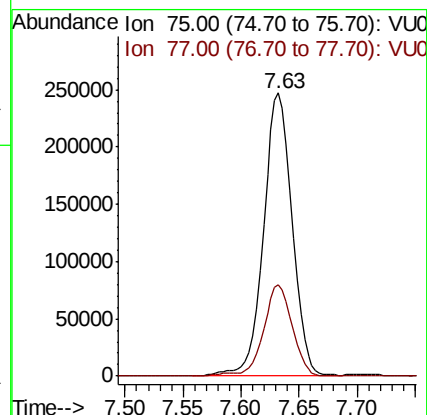
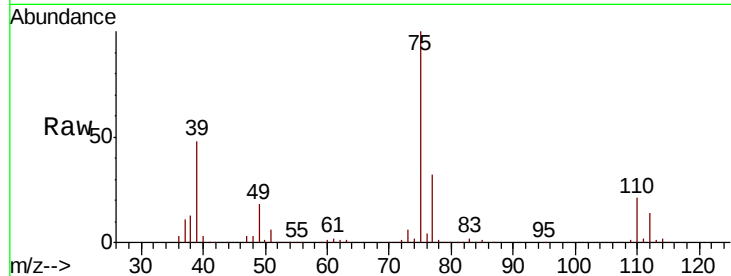


#39

cis-1,3-Dichloropropene
Concen: 48.297 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

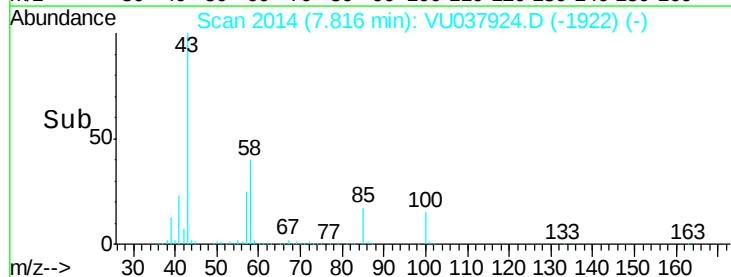
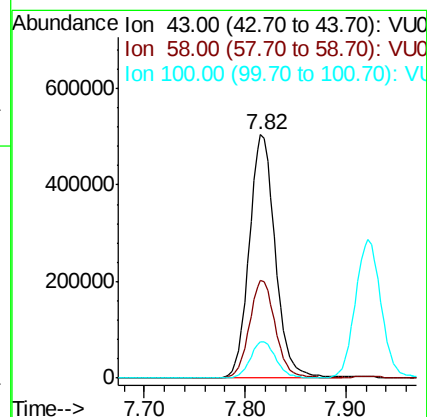
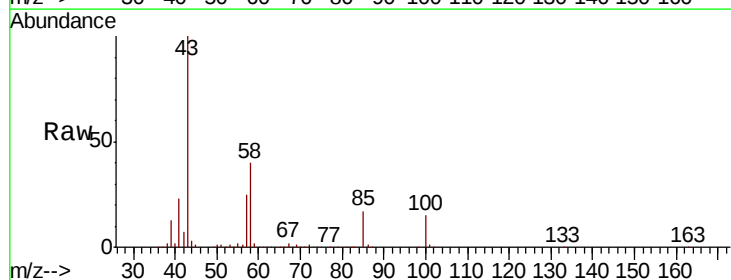
Tot Ion: 75 Resp: 424261
Ion Ratio Lower Upper
75 100
77 32.5 21.7 40.3

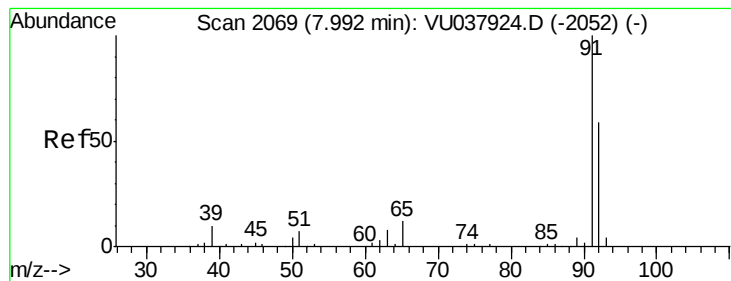


#40

4-Methyl-2-pentanone
Concen: 93.616 ug/L
RT: 7.82 min Scan# 1414
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

Tgt Ion: 43 Resp: 893235
Ion Ratio Lower Upper
43 100
58 40.1 30.2 45.2
100 15.0 10.9 16.3





#42

Toluene

Concen: 50.976 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

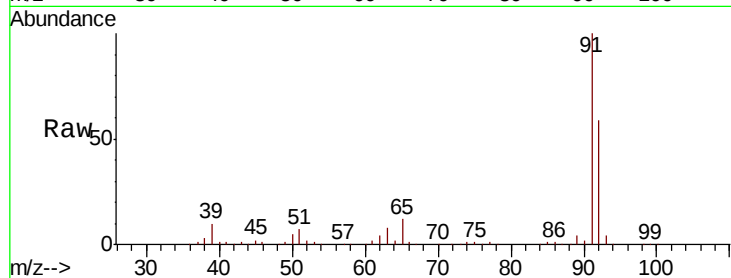
VSTD05053

Tot Ion: 91 Resp: 1073632

Ion Ratio Lower Upper

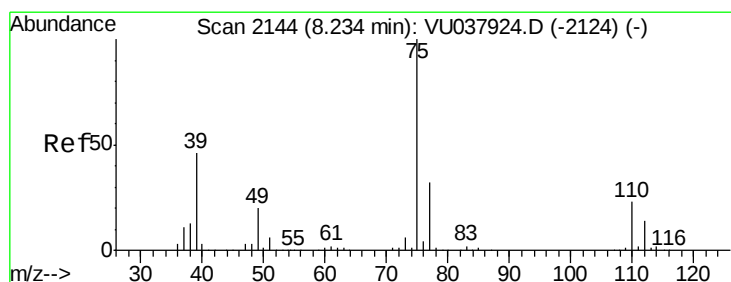
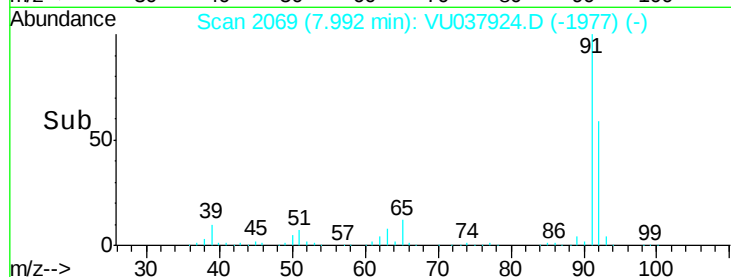
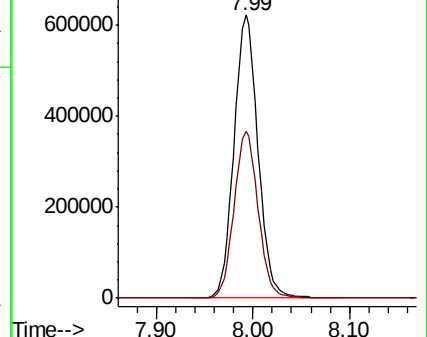
91 100

92 59.1 41.2 76.6



Abundance Ion 91.00 (90.70 to 91.70): VU037924.D (-2052) (-)

Ion 92.00 (91.70 to 92.70): VU037924.D (-2052) (-)



#44

trans-1,3-Dichloropropene

Concen: 48.196 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037924.D

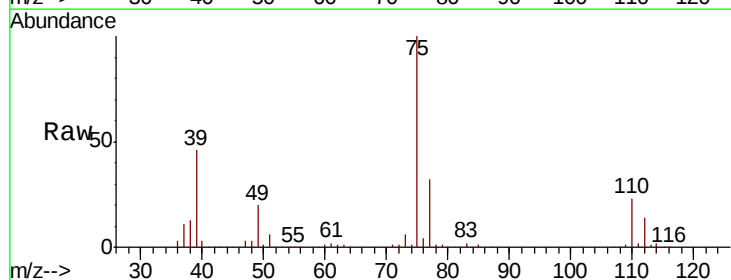
Acq: 29 Apr 2020 19:59

Tgt Ion: 75 Resp: 408659

Ion Ratio Lower Upper

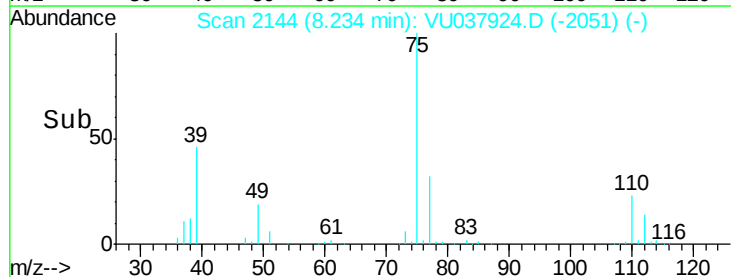
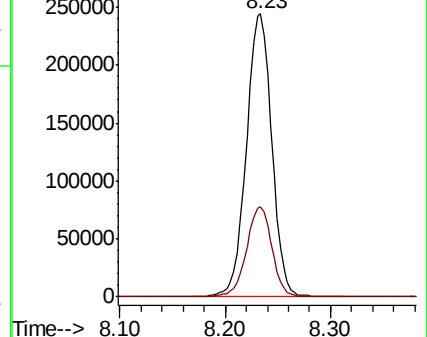
75 100

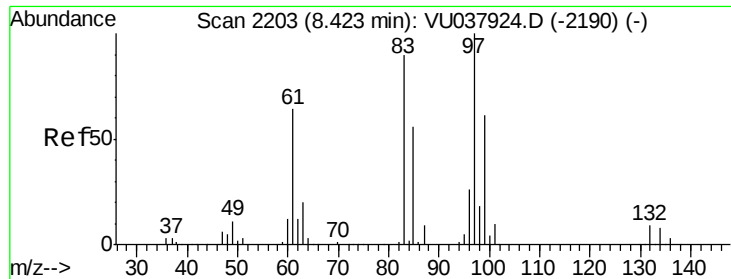
77 32.0 21.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU037924.D (-2124) (-)

Ion 77.00 (76.70 to 77.70): VU037924.D (-2124) (-)

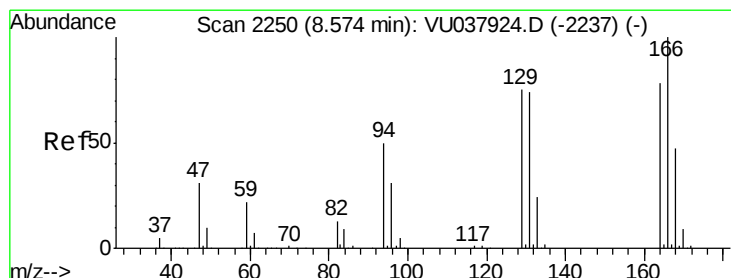
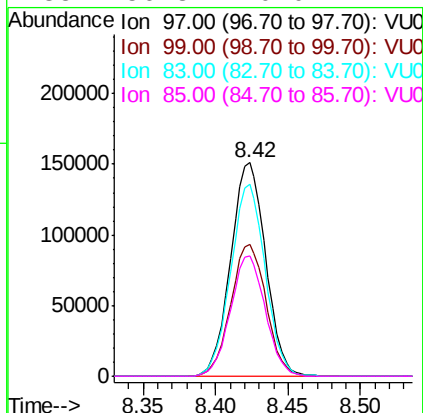
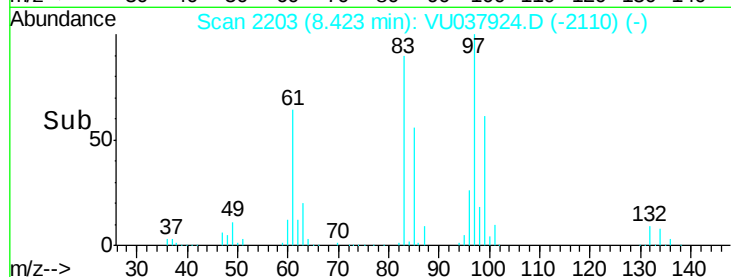
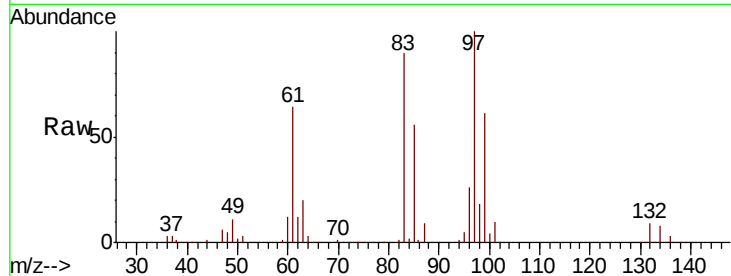




#45
 1,1,2-Trichloroethane
 Concen: 52.884 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037924.D
 Acq: 29 Apr 2020 19:59

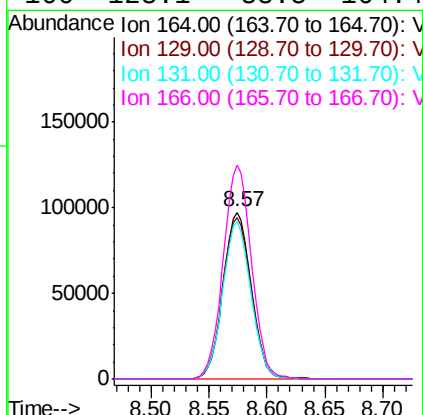
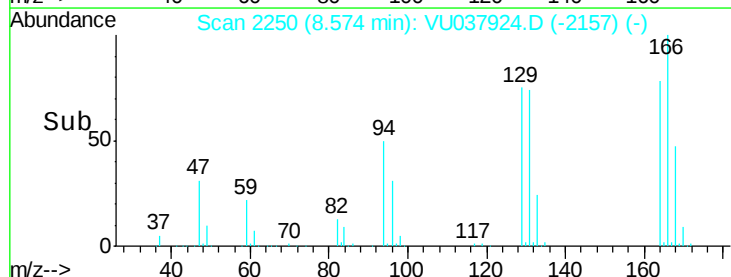
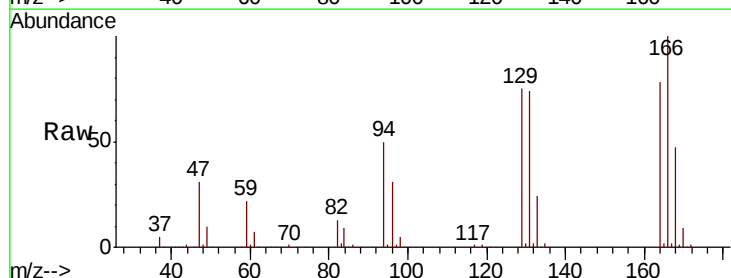
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

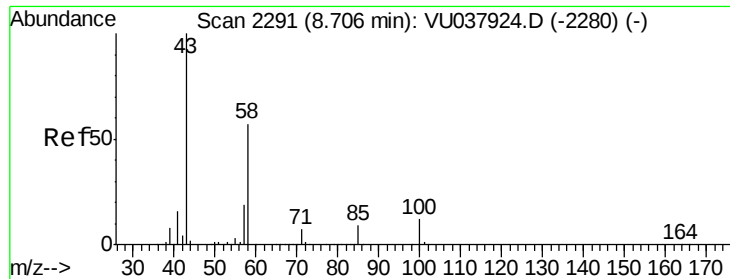
Tot Ion:	97	Resp:	253112
Ion	Ratio	Lower	Upper
97	100		
99	61.5	44.0	81.6
83	90.1	62.6	116.2
85	56.3	40.0	74.4



#46
 Tetrachloroethene
 Concen: 45.384 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037924.D
 Acq: 29 Apr 2020 19:59

Tgt Ion:	164	Resp:	163452
Ion	Ratio	Lower	Upper
164	100		
129	96.6	67.3	125.1
131	94.2	64.8	120.4
166	128.1	88.5	164.4

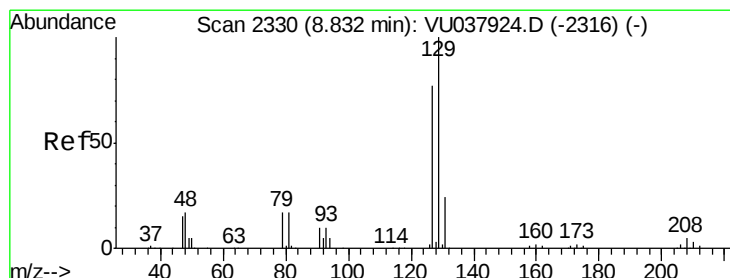
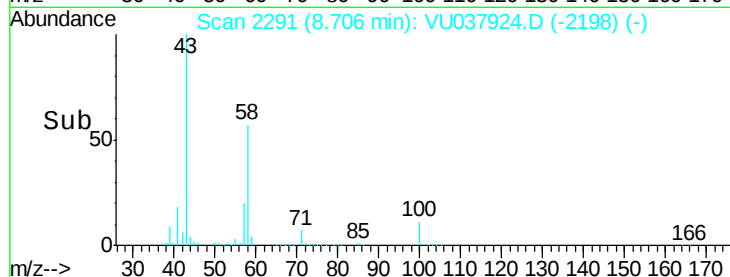
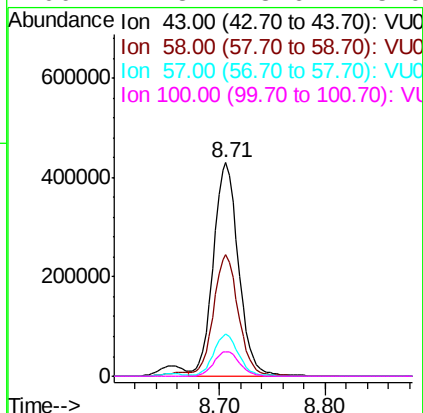
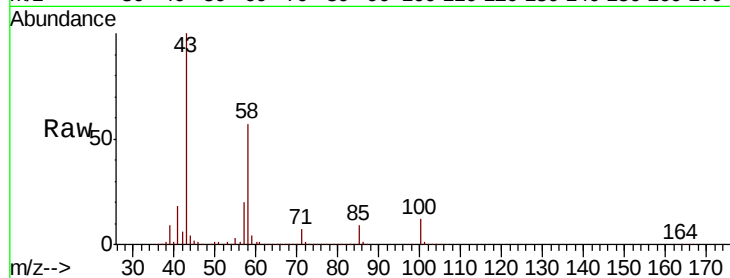




#48
2-Hexanone
Concen: 94.520 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

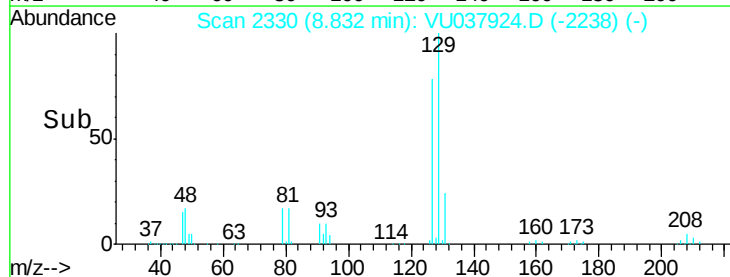
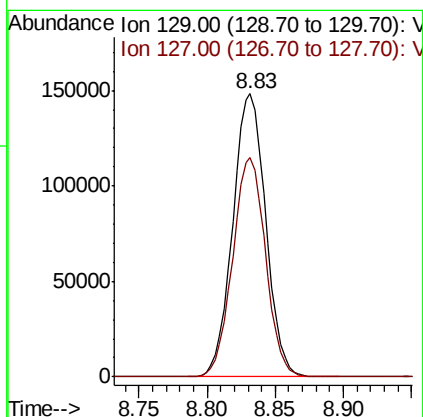
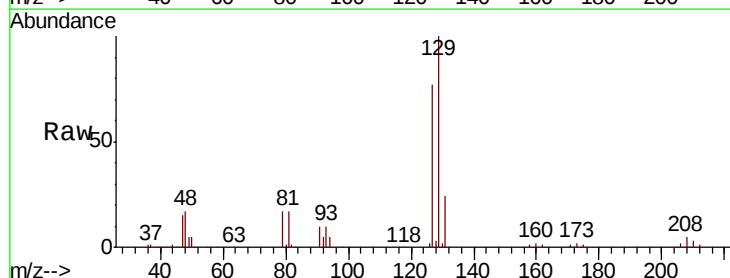
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

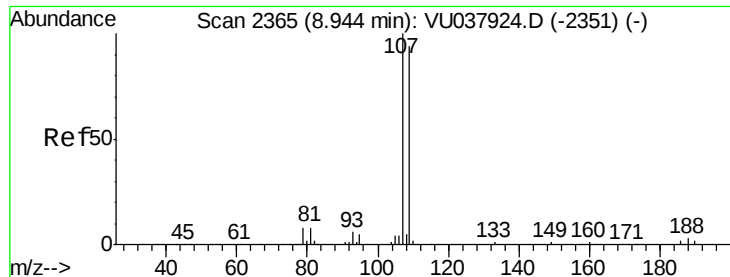
Tot Ion	43	Resp:	713076
Ion	Ratio	Lower	Upper
43	100		
58	56.4	42.6	63.8
57	19.8	14.6	22.0
100	11.8	8.6	13.0



#49
Dibromochloromethane
Concen: 49.813 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037924.D
Acq: 29 Apr 2020 19:59

Tgt Ion	129	Resp:	248950
Ion	Ratio	Lower	Upper
129	100		
127	77.5	54.7	101.5

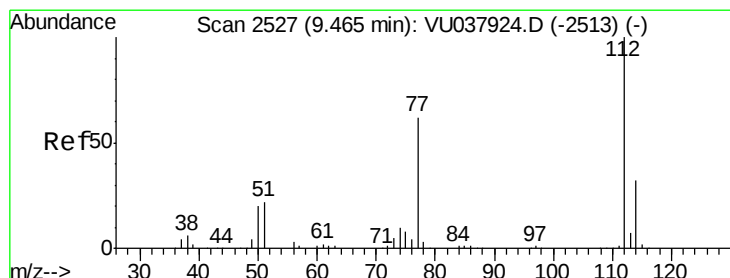
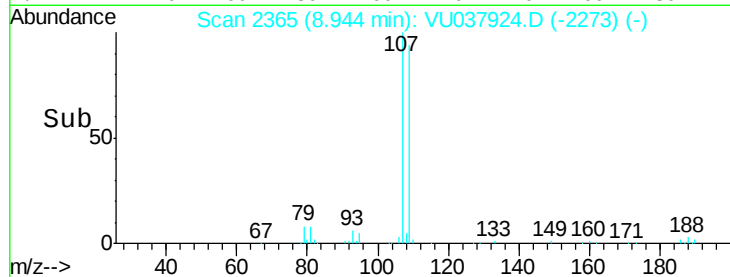
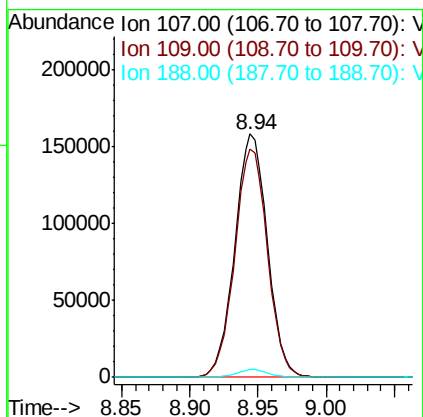
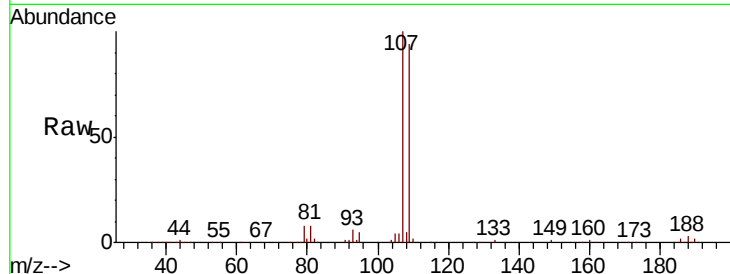




#50
 1,2-Dibromoethane
 Concen: 50.602 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. -0.00 min
 Lab File: VU037924.D
 Acq: 29 Apr 2020 19:59

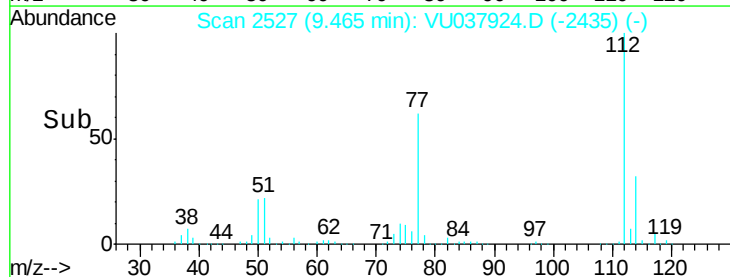
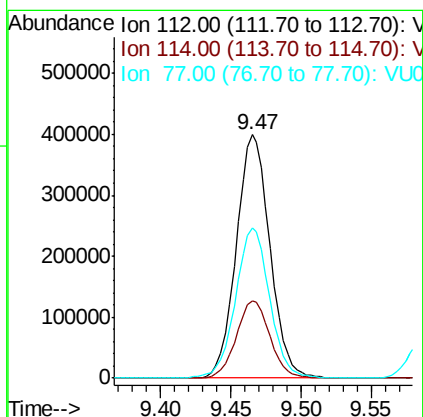
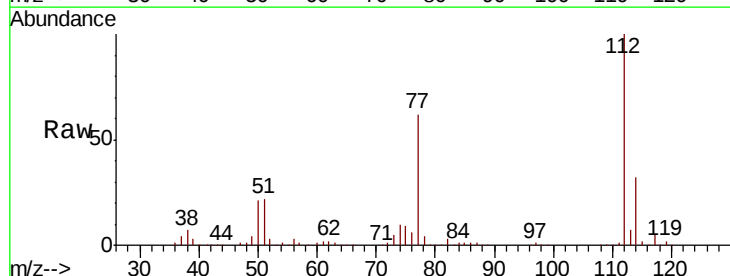
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

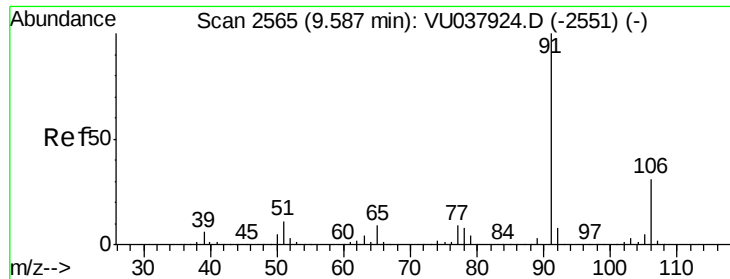
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	65.7	122.1
188	3.1	2.9	4.3



#51
 Chlorobenzene
 Concen: 50.851 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037924.D
 Acq: 29 Apr 2020 19:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.3	41.3
77	61.9	49.8	74.6





#52

Ethylbenzene

Concen: 50.764 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

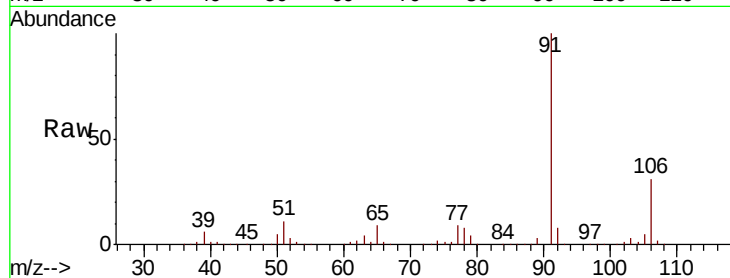
VSTD05053

Tot Ion: 91 Resp: 1197311

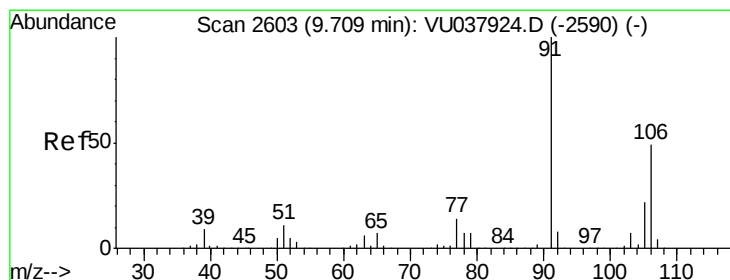
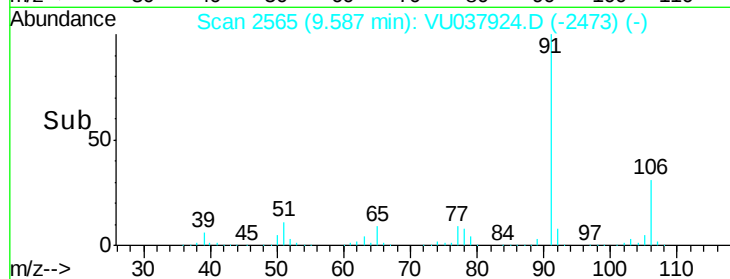
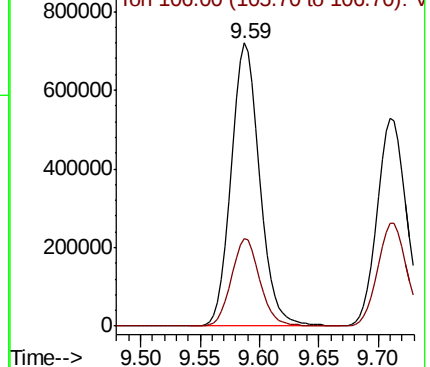
Ion Ratio Lower Upper

91 100

106 30.9 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU037924.D (-2551) (-)



#53

m,p-Xylene

Concen: 51.138 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU037924.D

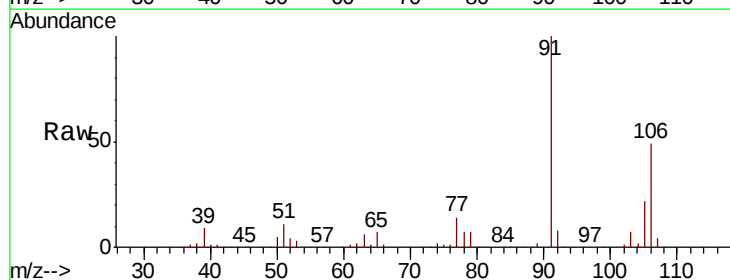
Acq: 29 Apr 2020 19:59

Tgt Ion: 106 Resp: 454116

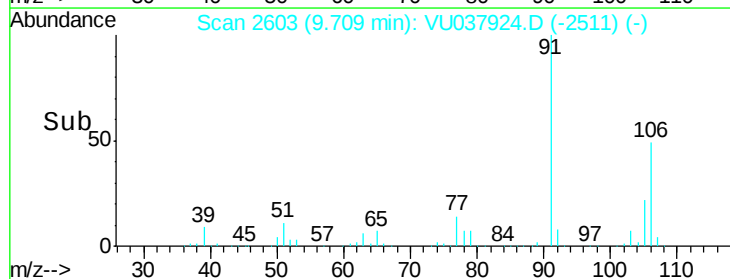
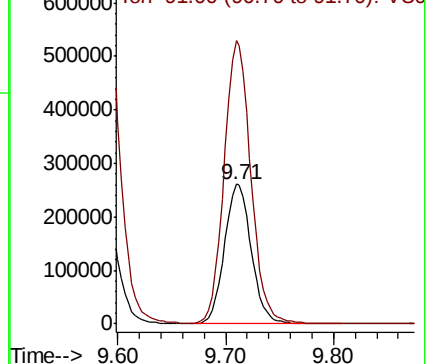
Ion Ratio Lower Upper

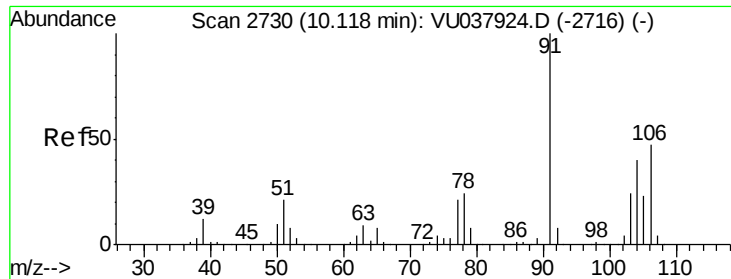
106 100

91 202.5 142.8 265.2



Abundance Ion 106.00 (105.70 to 106.70): VU037924.D (-2590) (-)





#54

o-xylene

Concen: 52.039 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

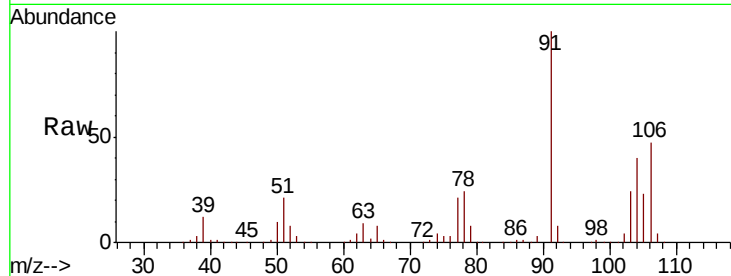
VSTD05053

Tot Ion:106 Resp: 451952

Ion Ratio Lower Upper

106 100

91 213.1 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

600000

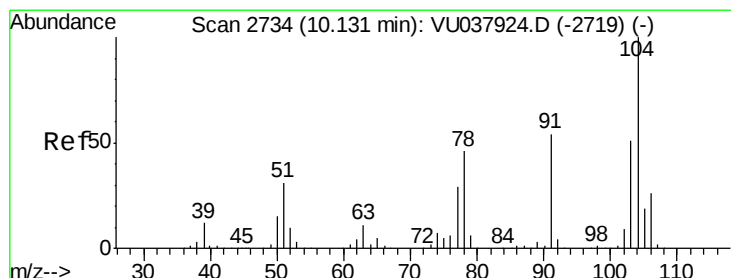
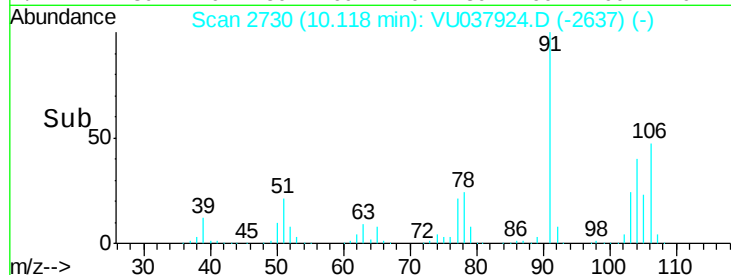
400000

200000

0

10.10 10.12 10.20

Time-->



#55

Styrene

Concen: 51.676 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037924.D

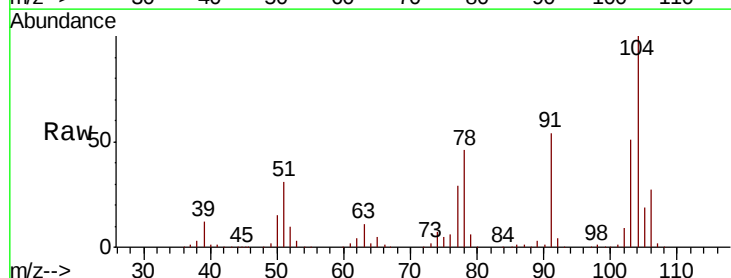
Acq: 29 Apr 2020 19:59

Tgt Ion:104 Resp: 771825

Ion Ratio Lower Upper

104 100

78 45.8 32.6 60.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

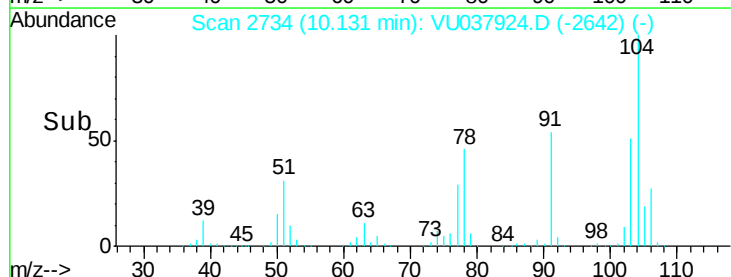
200000

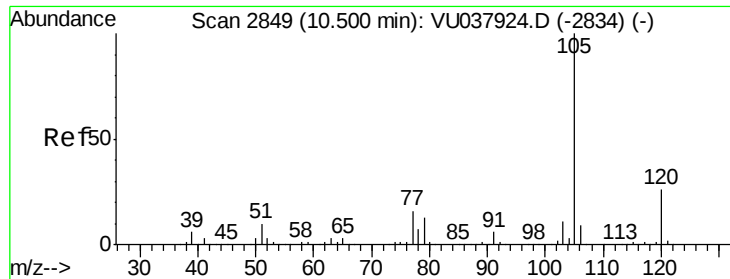
100000

0

10.10 10.13 10.20

Time-->





#56

Isopropylbenzene

Concen: 50.533 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

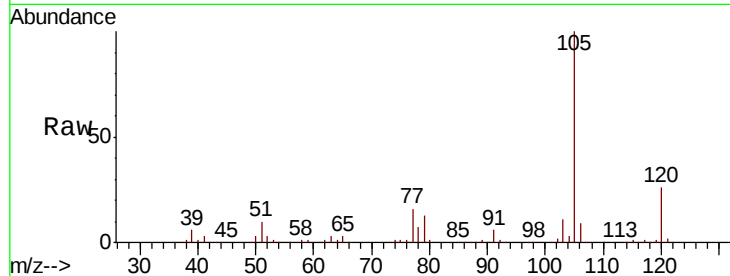
Tot Ion:105 Resp: 1161481

Ion Ratio Lower Upper

105 100

120 26.0 20.6 31.0

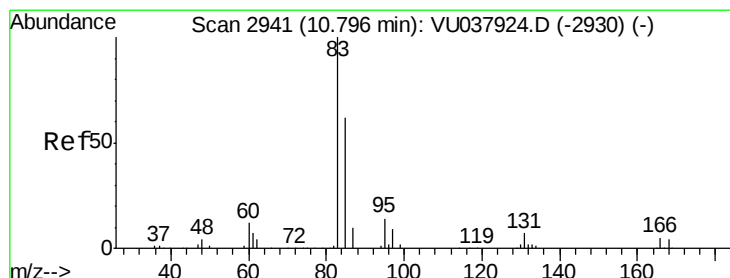
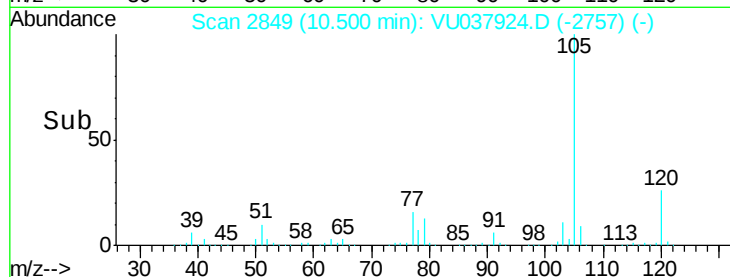
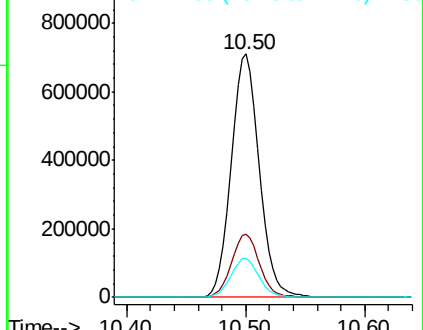
77 16.1 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 52.576 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

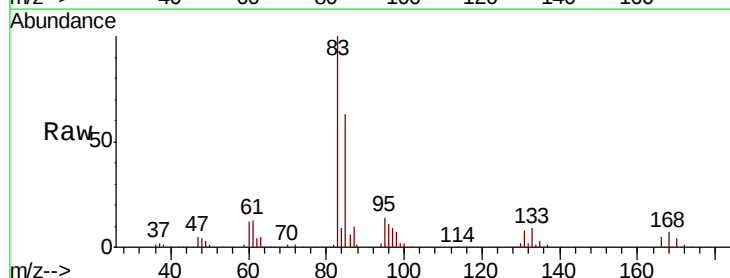
Tgt Ion: 83 Resp: 447538

Ion Ratio Lower Upper

83 100

85 63.4 43.8 81.4

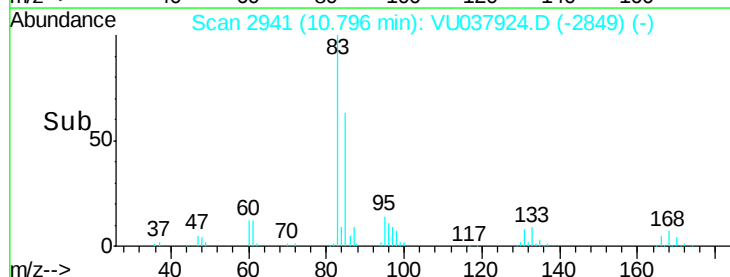
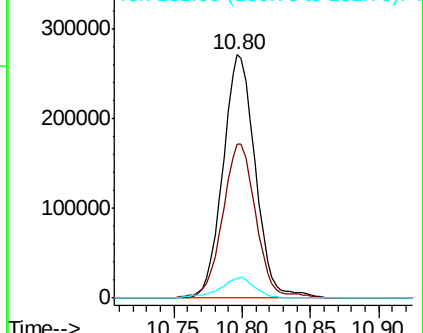
131 8.3 7.2 10.8

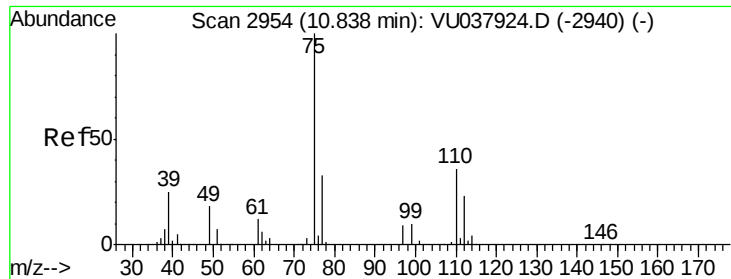


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.884 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

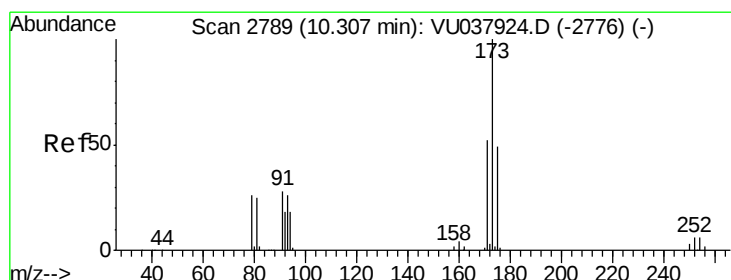
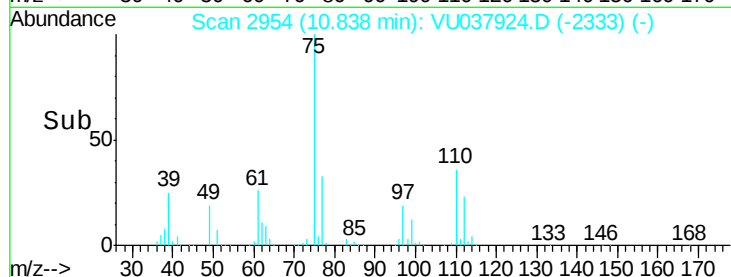
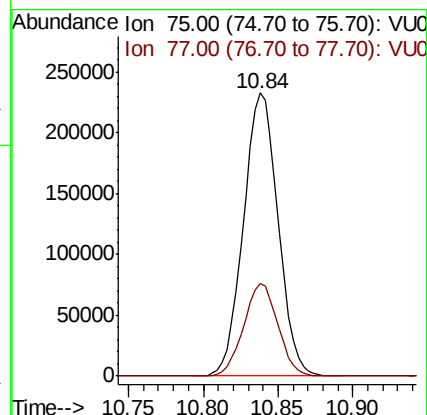
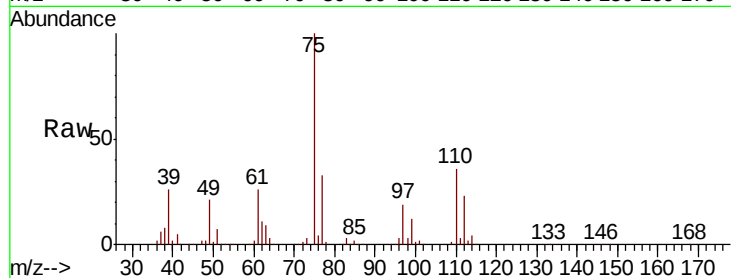
VSTD05053

Tot Ion: 75 Resp: 375025

Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.6



#61

Bromoform

Concen: 48.381 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

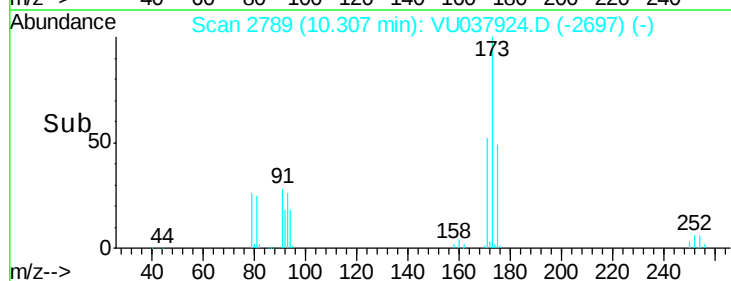
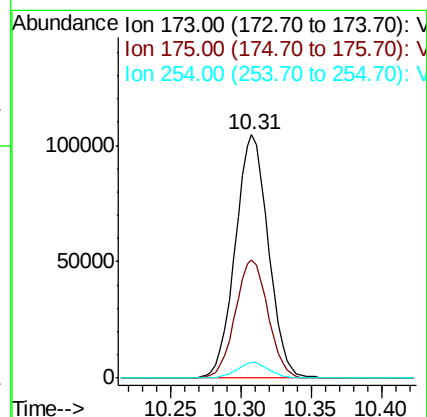
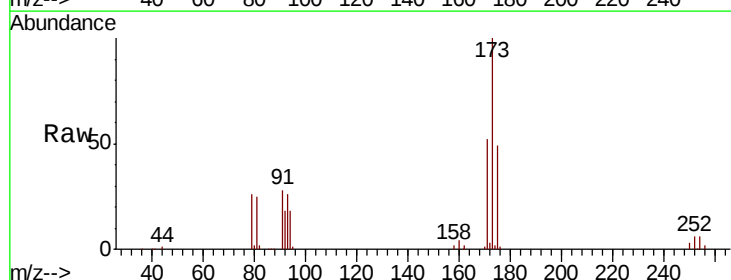
Tgt Ion: 173 Resp: 171325

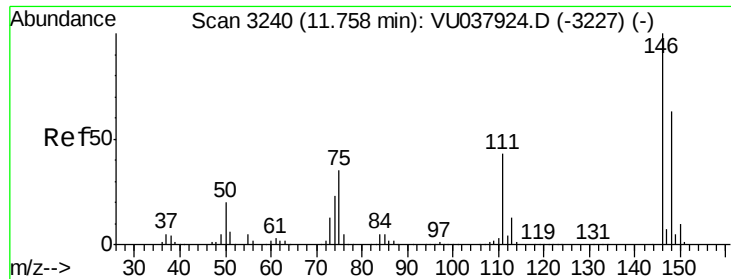
Ion Ratio Lower Upper

173 100

175 48.3 38.8 58.2

254 6.2 5.8 8.8





#62

1,3-Dichlorobenzene

Concen: 50.401 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

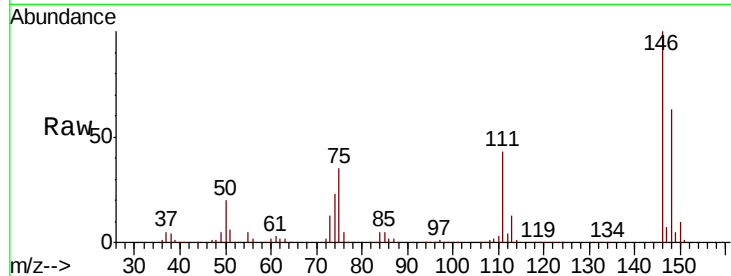
Tot Ion:146 Resp: 496543

Ion Ratio Lower Upper

146 100

111 42.7 29.0 53.9

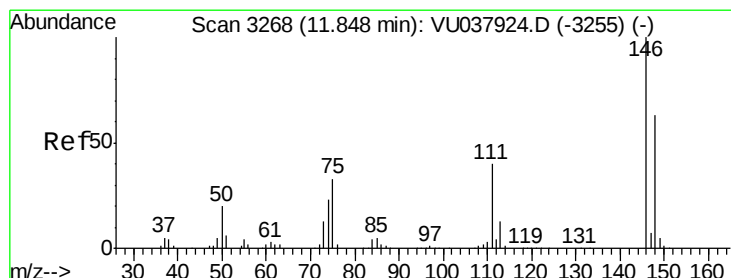
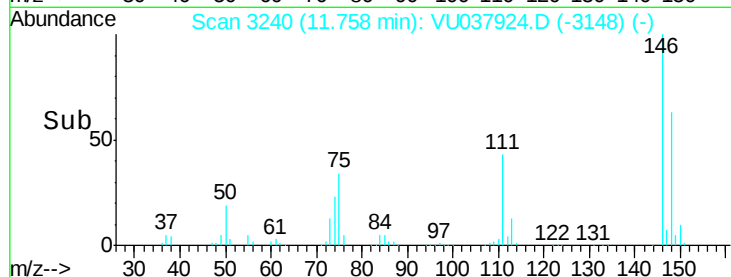
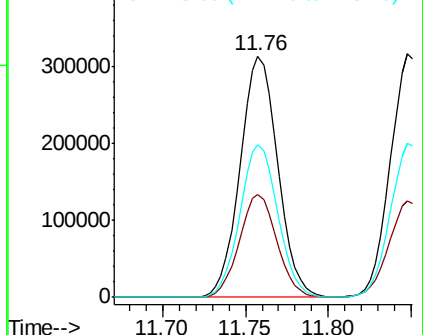
148 63.5 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.472 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

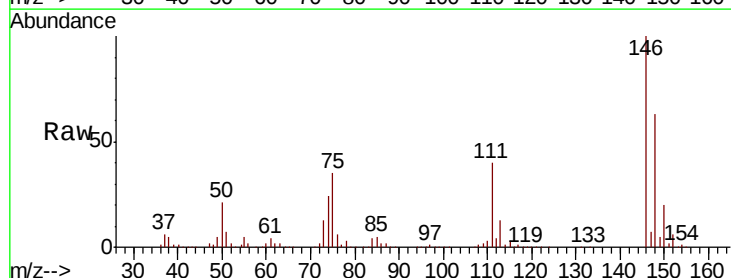
Tgt Ion:146 Resp: 501879

Ion Ratio Lower Upper

146 100

111 39.8 27.2 50.4

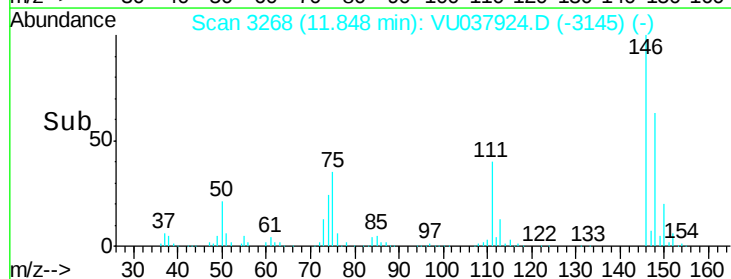
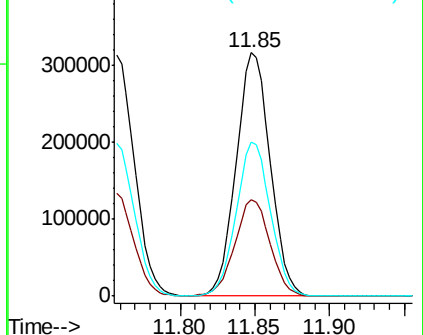
148 63.2 43.9 81.5

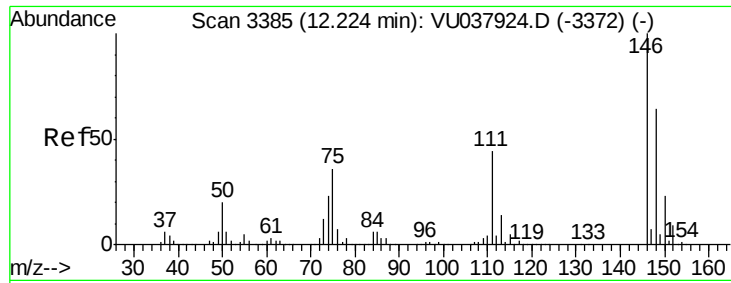


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 52.489 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

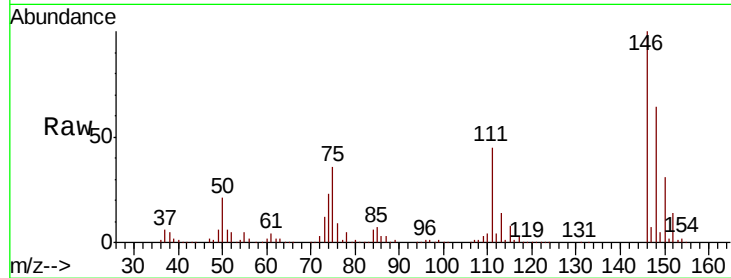
Tot Ion:146 Resp: 502497

Ion Ratio Lower Upper

146 100

111 44.6 35.4 53.2

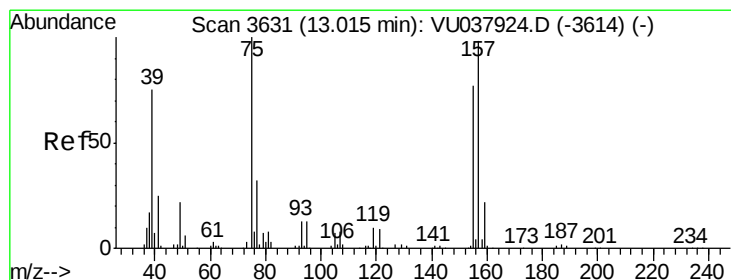
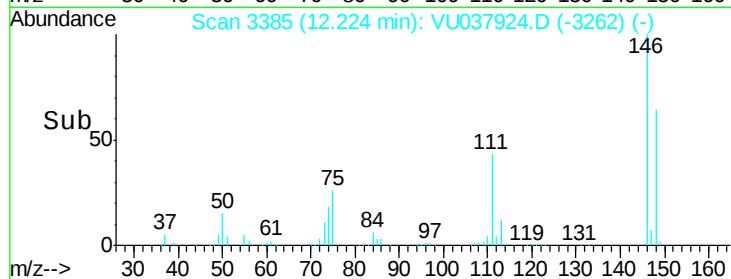
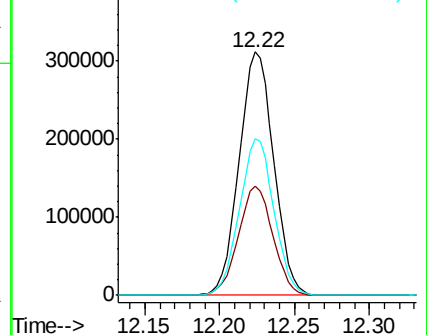
148 64.2 49.8 74.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 50.517 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

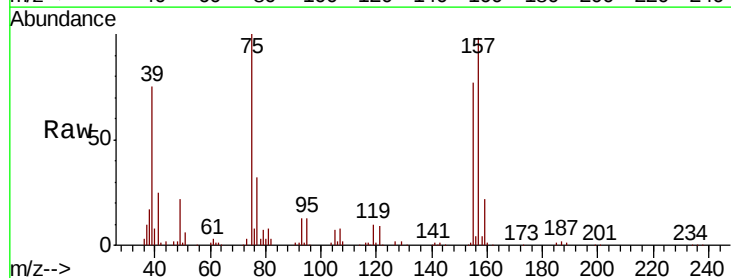
Tgt Ion: 75 Resp: 107782

Ion Ratio Lower Upper

75 100

155 77.2 59.6 89.4

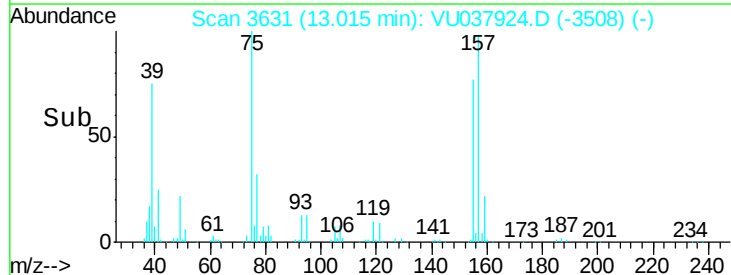
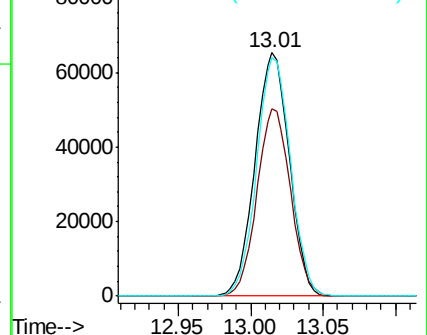
157 97.9 77.2 115.8

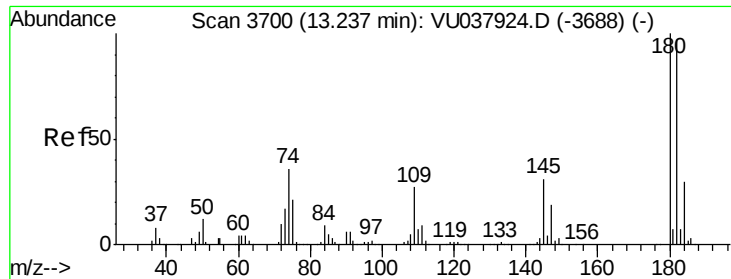


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

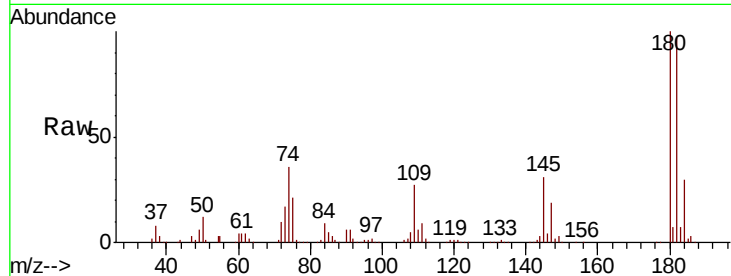




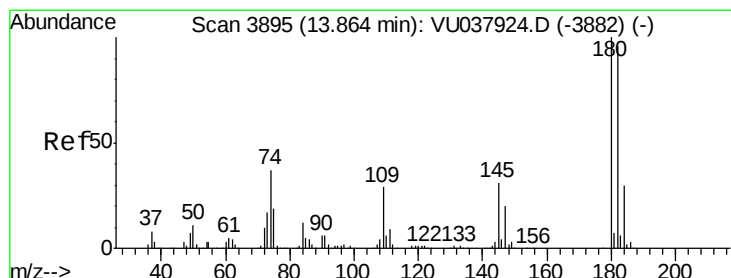
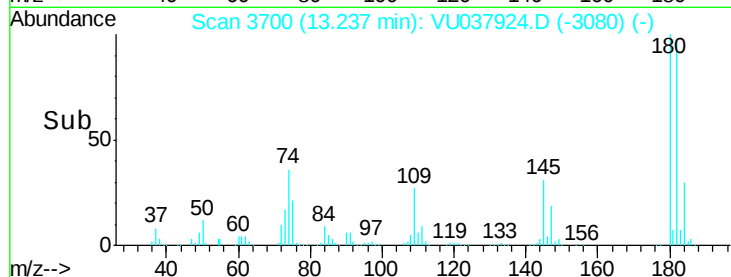
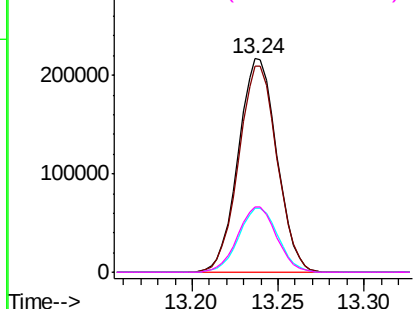
#67
 1,3,5-Trichlorobenzene
 Concen: 47.321 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.01 min
 Lab File: VU037924.D
 Acq: 29 Apr 2020 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Tot Ion:180	Resp:	338804
Ion	Ratio	Lower Upper
180	100	
182	96.2	76.5 114.7
184	30.4	24.2 36.4
145	30.8	24.2 36.4

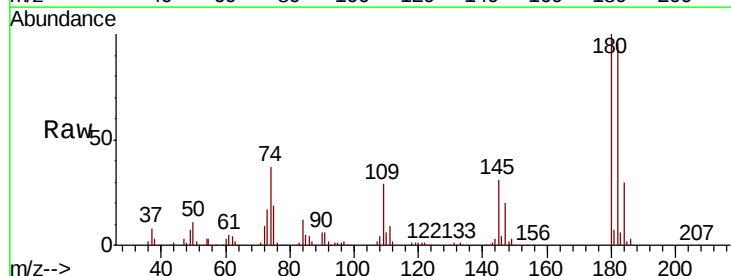


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

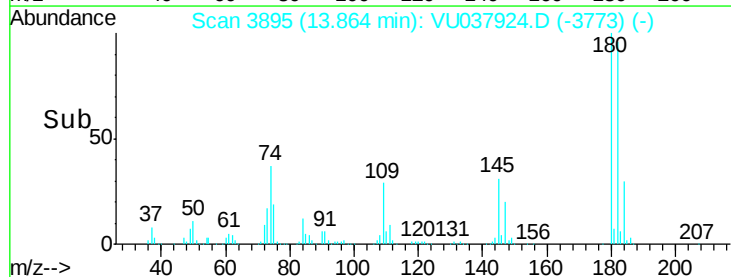
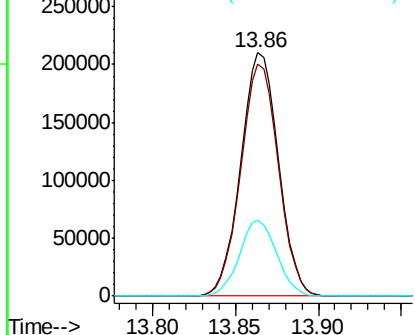


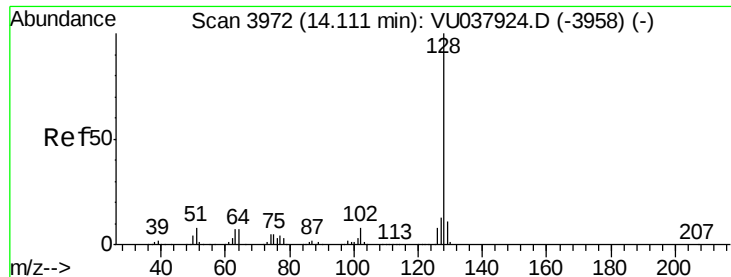
#68
 1,2,4-trichlorobenzene
 Concen: 47.652 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU037924.D
 Acq: 29 Apr 2020 19:59

Tgt Ion:180	Resp:	331814
Ion	Ratio	Lower Upper
180	100	
182	95.5	76.9 115.3
145	31.0	23.8 35.8



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





#69

Naphthalene

Concen: 53.202 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Instrument :

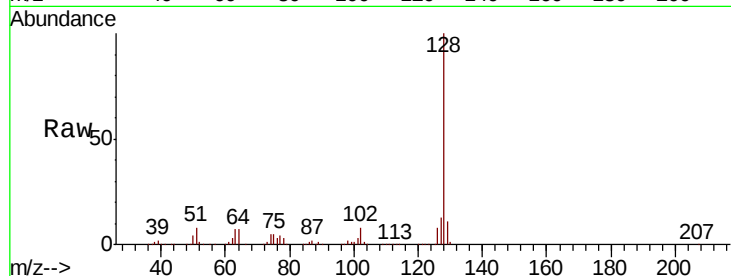
MSVOA_U

ClientSampleId :

VSTD05053

Tot Ion:128 Resp: 1328430

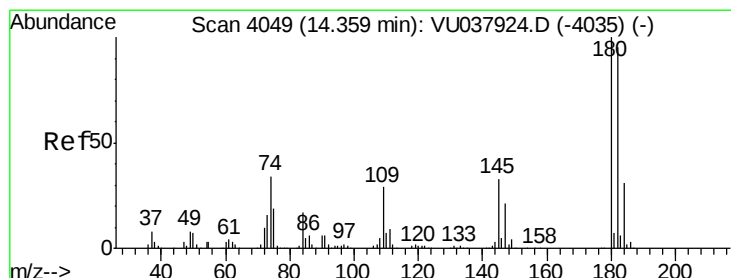
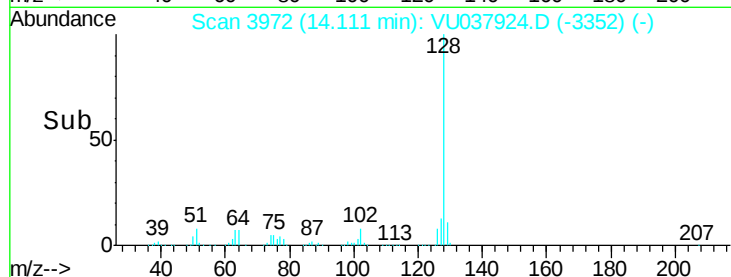
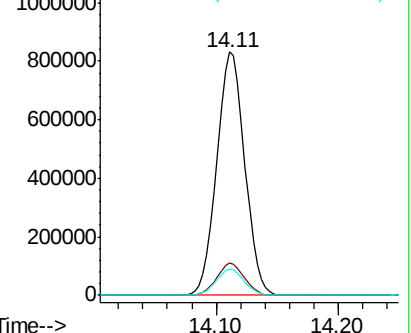
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.480 ug/L

RT: 14.36 min Scan# 4049

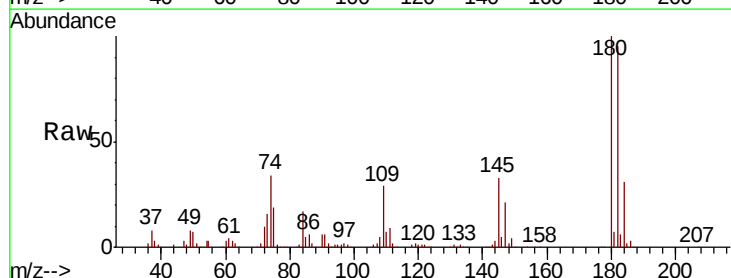
Delta R.T. -0.01 min

Lab File: VU037924.D

Acq: 29 Apr 2020 19:59

Tgt Ion:180 Resp: 340219

Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.6	114.8
145	33.4	26.1	39.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

