

Data File : VU030446.D
Acq On : 26 Mar 2019 15:52
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Quant Time: Mar 27 04:35:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 27 04:29:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	414591	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	399456	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	184865	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	184078	55.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	110.34%
7) Chloroethane-d5	1.67	69	146432	55.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.74%
11) 1,1-Dichloroethene-d2	2.27	63	340118	53.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.48%
21) 2-Butanone-d5	4.17	46	348038	110.96	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.96%
24) Chloroform-d	4.64	84	316645	55.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.16%
26) 1,2-Dichloroethane-d4	5.31	65	203555	54.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.22%
32) Benzene-d6	5.34	84	620339	54.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.30%
36) 1,2-Dichloropropane-d6	6.33	67	216435	55.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.44%
41) Toluene-d8	7.56	98	550039	53.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.92%
43) trans-1,3-Dichloropropene-	7.85	79	98397	53.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.78%
47) 2-Hexanone-d5	8.31	63	234205	110.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.27%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	303783	54.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.34%
64) 1,2-Dichlorobenzene-d4	11.85	152	196443	53.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.06%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	233330	51.008	ug/L	100
3) Chloromethane	1.33	50	266983	52.186	ug/L	100
5) Vinyl chloride	1.40	62	253931	52.342	ug/L	100
6) Bromomethane	1.61	94	97580	43.846	ug/L	96
8) Chloroethane	1.69	64	150305	54.879	ug/L	97
9) Trichlorofluoromethane	1.88	101	285346	53.937	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	156545	51.736	ug/L	97
12) 1,1-Dichloroethene	2.28	96	153951	51.900	ug/L	94
13) Acetone	2.32	43	288651	91.000	ug/L	100
14) Carbon disulfide	2.47	76	490128	49.973	ug/L	99
15) Methyl Acetate	2.61	43	261320	53.803	ug/L #	100
16) Methylene chloride	2.70	84	188916	54.025	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	159603	51.286	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	553404	53.774	ug/L	99
19) 1,1-Dichloroethane	3.44	63	344015	53.881	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	180674	51.767	ug/L	93
22) 2-Butanone	4.26	43	405074	105.653	ug/L	99

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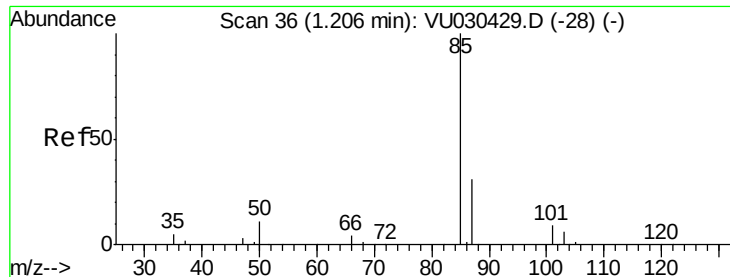
Quant Time: Mar 27 04:35:49 2019
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	86462	53.300	ug/L	96
25) Chloroform	4.67	83	324106	53.391	ug/L	100
27) 1,2-Dichloroethane	5.40	62	258133	54.191	ug/L	98
29) Cyclohexane	4.99	56	327723	54.214	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	262654	53.700	ug/L	99
31) Carbon tetrachloride	5.13	117	223648	53.946	ug/L	99
33) Benzene	5.39	78	729971	53.683	ug/L	100
34) Trichloroethene	6.18	95	175156	52.398	ug/L	96
35) Methylcyclohexane	6.41	83	287089	52.191	ug/L	99
37) 1,2-Dichloropropane	6.43	63	203053	52.619	ug/L	100
38) Bromodichloromethane	6.75	83	243258	53.053	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	303750	54.763	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	689895	106.435	ug/L	99
42) Toluene	7.63	91	751829	53.275	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	266212	54.547	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	171828	52.699	ug/L	98
46) Tetrachloroethene	8.22	164	124322	53.247	ug/L	97
48) 2-Hexanone	8.36	43	553261	104.144	ug/L	99
49) Dibromochloromethane	8.47	129	181260	53.501	ug/L	100
50) 1,2-Dibromoethane	8.58	107	186079	53.176	ug/L	98
51) Chlorobenzene	9.12	112	457912	53.539	ug/L	99
52) Ethylbenzene	9.25	91	818719	53.555	ug/L	100
53) m,p-Xylene	9.37	106	295087	53.459	ug/L	100
54) o-xylene	9.77	106	292736	54.352	ug/L	98
55) Styrene	9.79	104	504094	54.333	ug/L	99
56) Isopropylbenzene	10.16	105	765064	53.646	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	315325	52.473	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	244765	52.110	ug/L	100
61) Bromoform	9.95	173	130862	53.242	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	317332	52.490	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	338061	54.318	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	337269	55.172	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	69942	51.384	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	229046	50.608	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	241700	61.463	ug/L	100
69) Naphthalene	13.74	128	621217	44.426	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	226893	54.641	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 51.008 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampled :

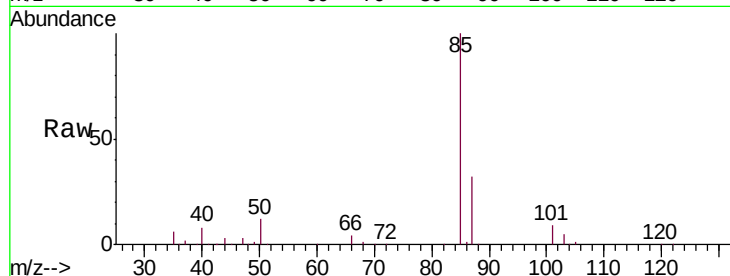
VSTD05033

Tgt Ion: 85 Resp: 233330

Ion Ratio Lower Upper

85 100

87 32.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030429.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030429.D (-28) (-)

1.21

250000

200000

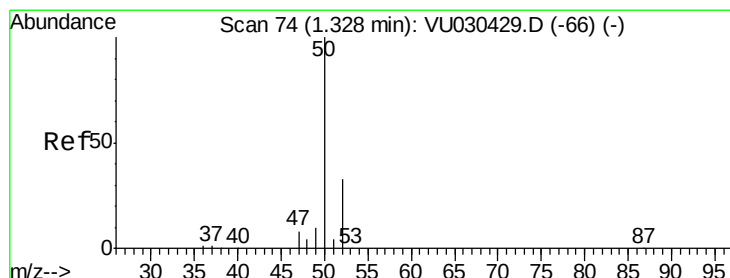
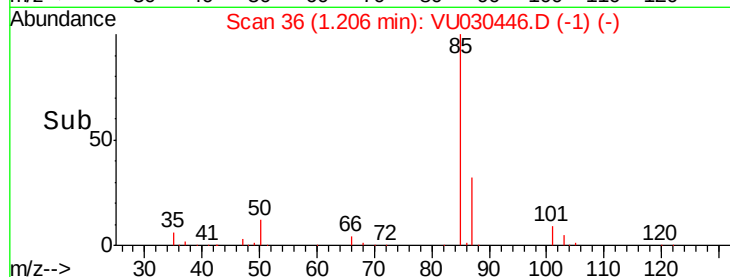
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 52.186 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU030446.D

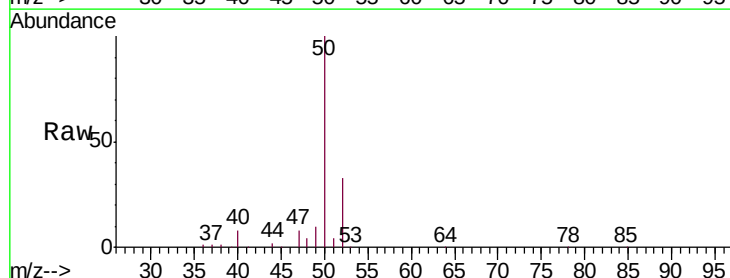
Acq: 26 Mar 2019 15:52

Tgt Ion: 50 Resp: 266983

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030429.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030429.D (-66) (-)

1.33

300000

250000

200000

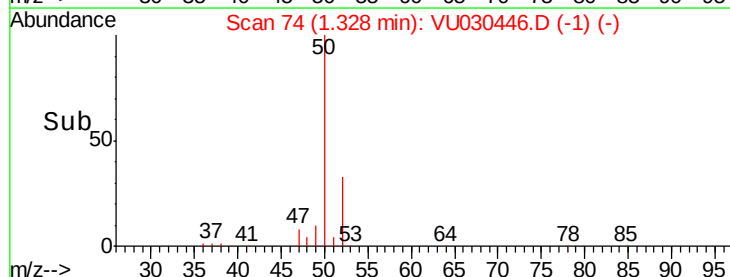
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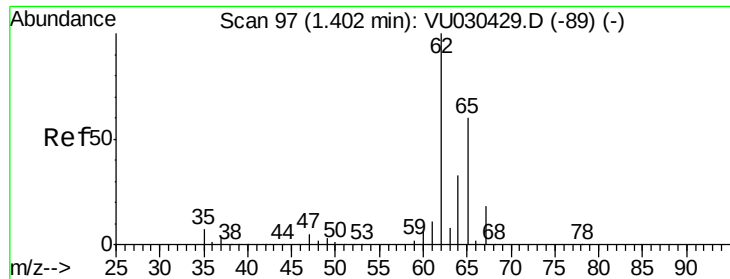
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 52.342 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

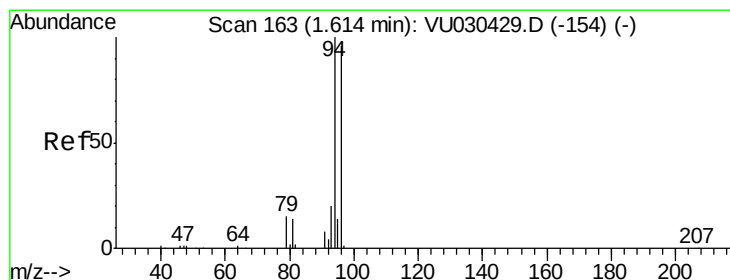
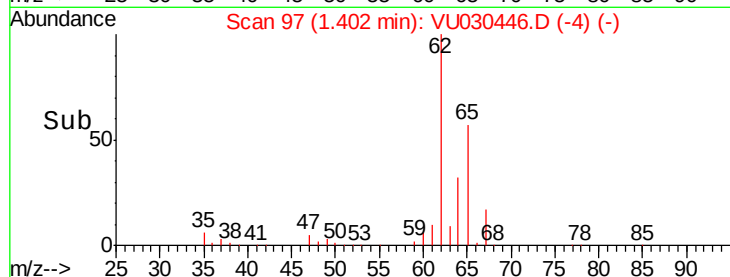
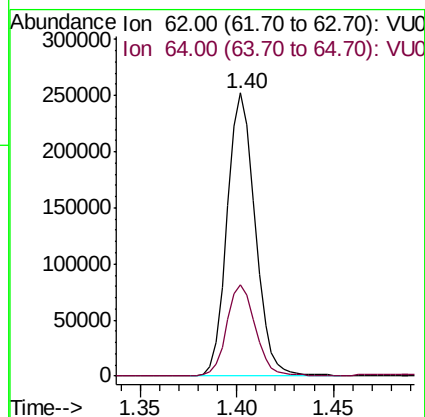
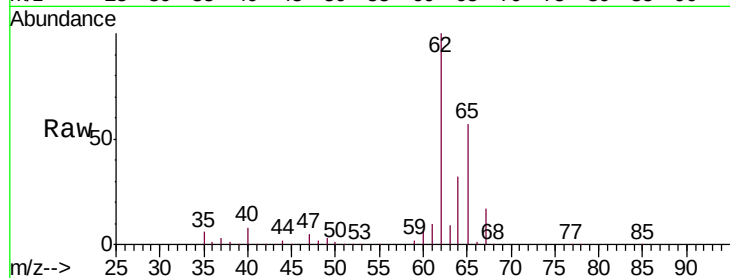
VSTD05033

Tgt Ion: 62 Resp: 253931

Ion Ratio Lower Upper

62 100

64 32.4 22.6 42.0



#6

Bromomethane

Concen: 43.846 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU030446.D

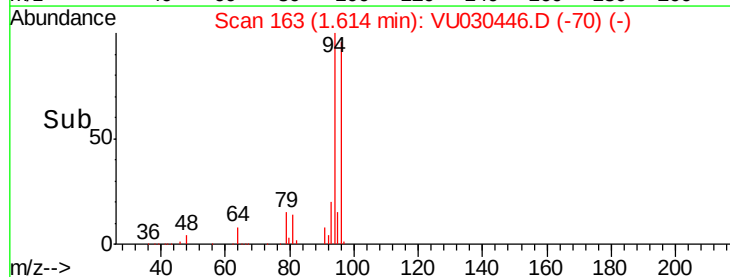
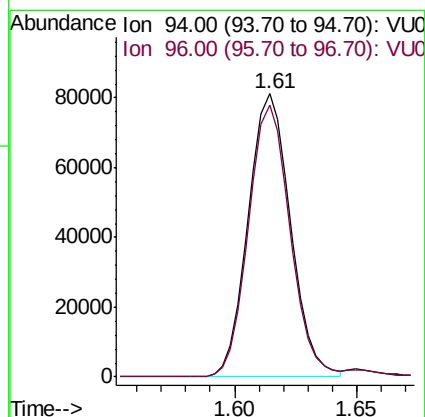
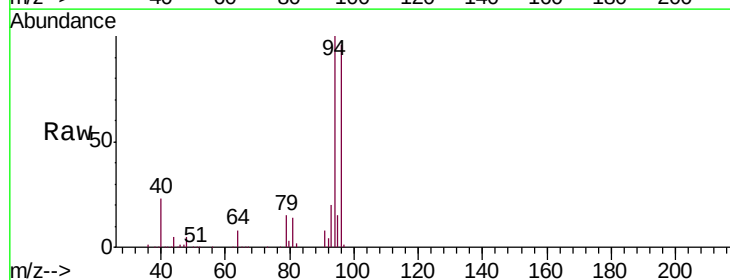
Acq: 26 Mar 2019 15:52

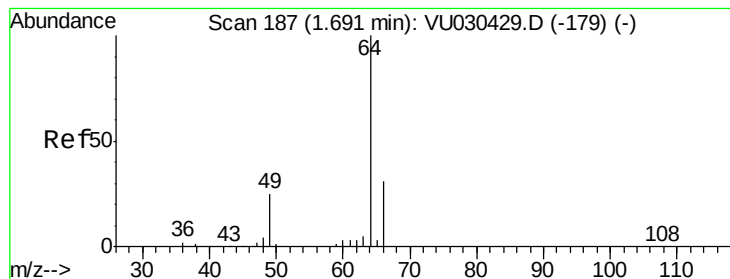
Tgt Ion: 94 Resp: 97580

Ion Ratio Lower Upper

94 100

96 96.2 64.8 120.3





#8

Chloroethane

Concen: 54.879 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

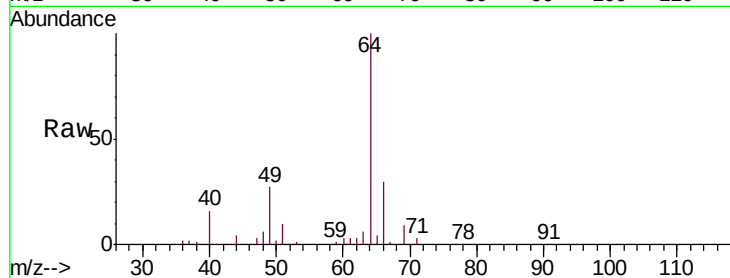
VSTD05033

Tgt Ion: 64 Resp: 150305

Ion Ratio Lower Upper

64 100

66 30.4 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU030429.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU030429.D (-179) (-)

1.69

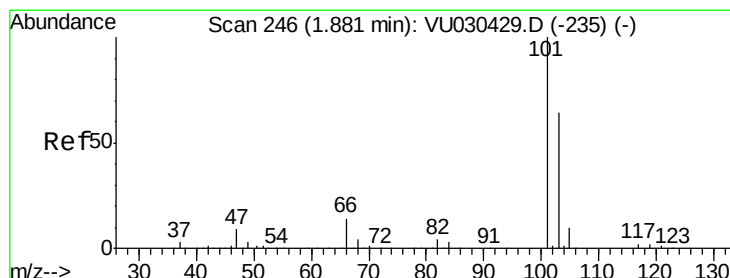
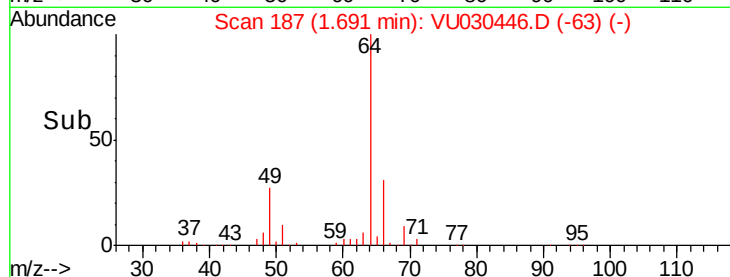
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 53.937 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU030446.D

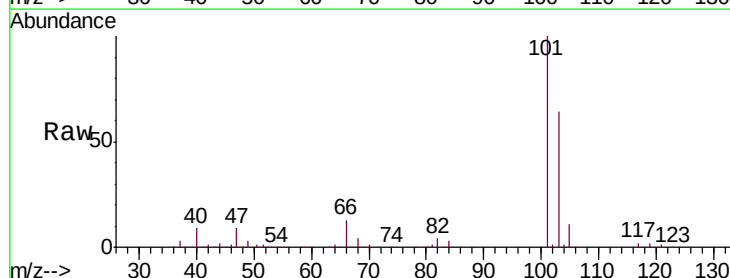
Acq: 26 Mar 2019 15:52

Tgt Ion: 101 Resp: 285346

Ion Ratio Lower Upper

101 100

103 64.0 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU030429.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU030429.D (-235) (-)

1.88

200000

150000

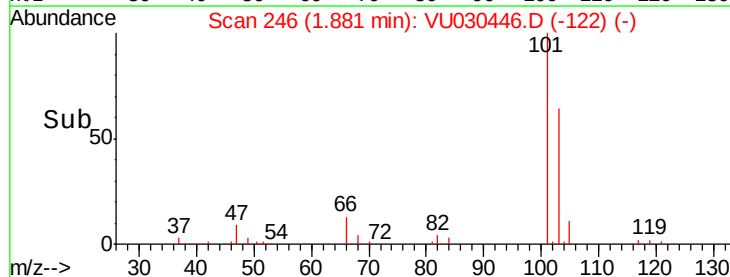
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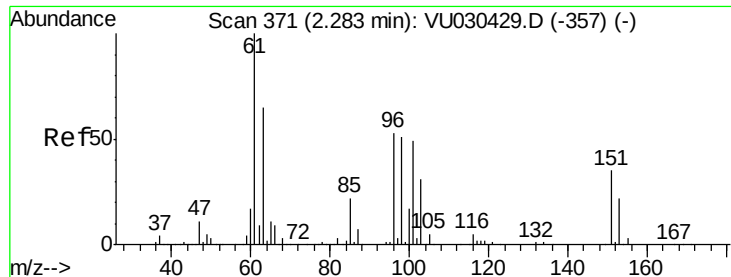
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 51.736 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

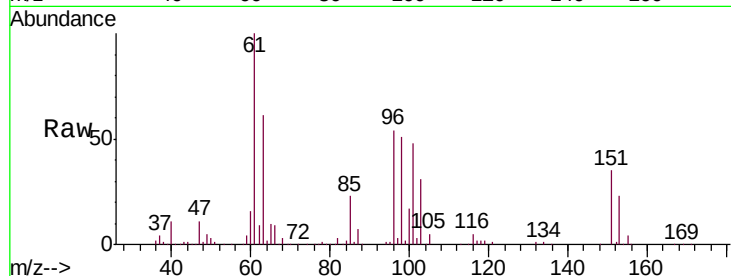
Tgt Ion: 101 Resp: 156545

Ion Ratio Lower Upper

101 100

85 46.8 34.8 52.2

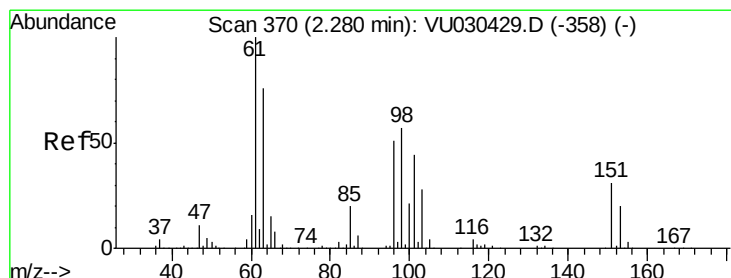
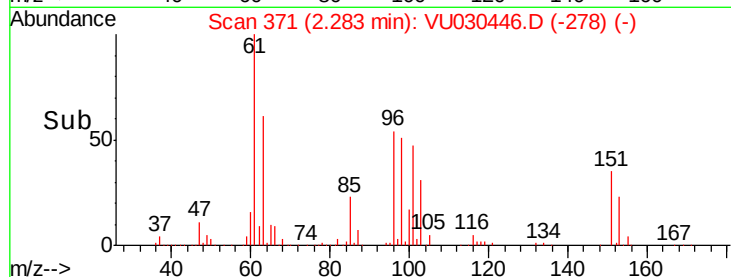
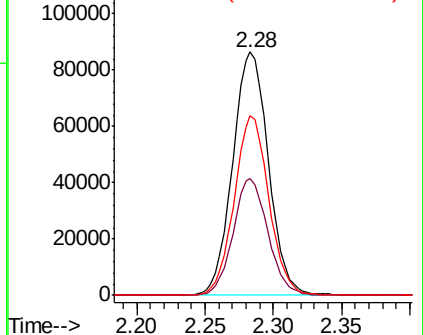
151 71.8 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 51.900 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

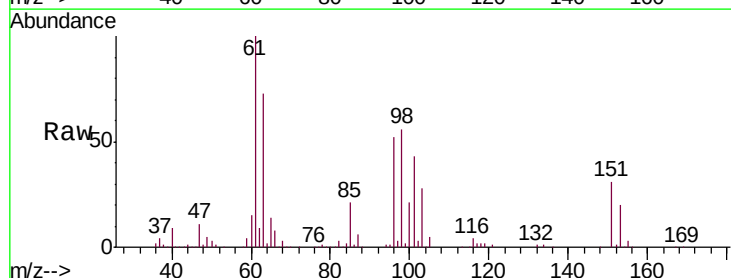
Tgt Ion: 96 Resp: 153951

Ion Ratio Lower Upper

96 100

61 194.1 131.0 243.4

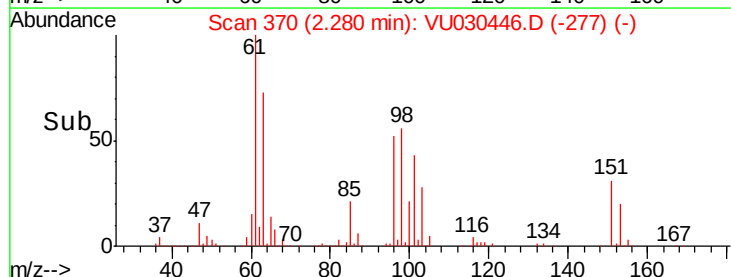
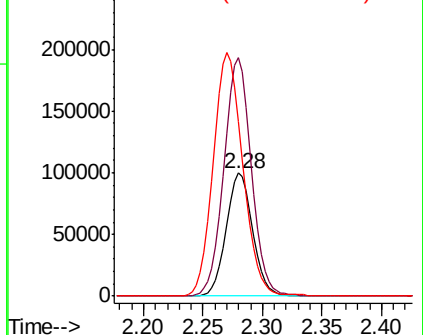
63 141.5 92.4 171.6

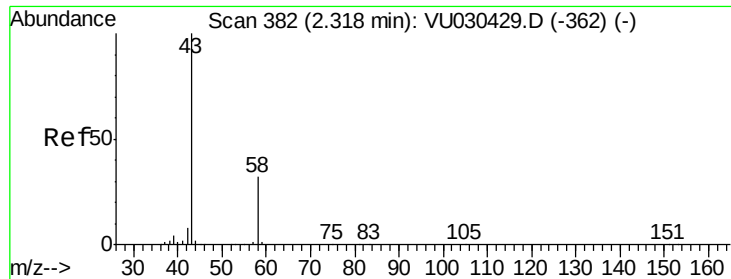


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.000 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

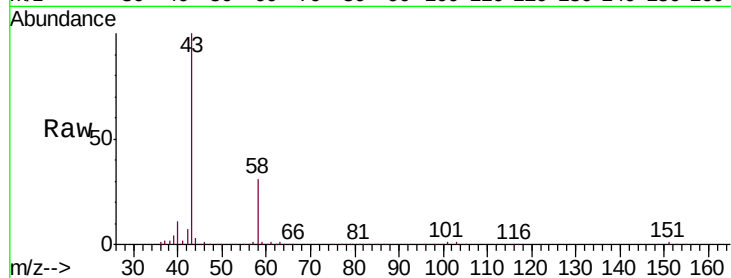
VSTD05033

Tgt Ion: 43 Resp: 288651

Ion Ratio Lower Upper

43 100

58 31.6 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030429.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU030429.D (-362) (-)

2.32

200000

150000

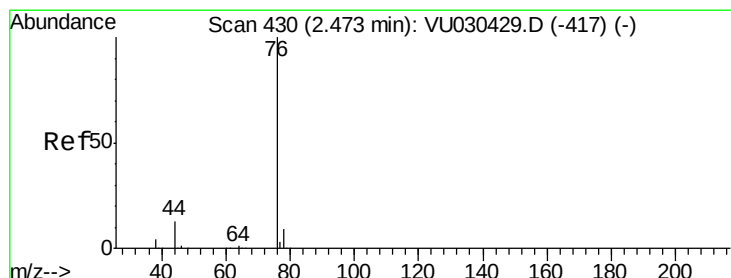
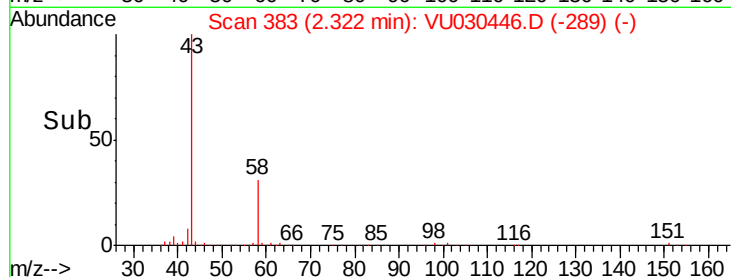
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50000

0

2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 49.973 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030446.D

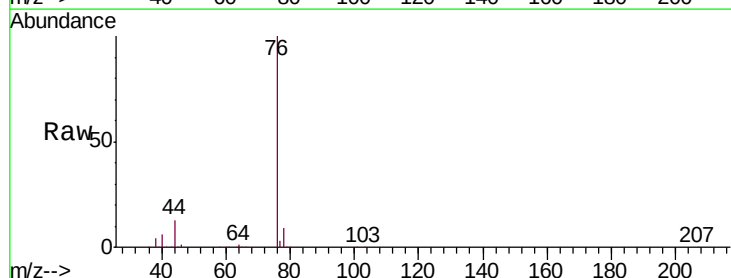
Acq: 26 Mar 2019 15:52

Tgt Ion: 76 Resp: 490128

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030429.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU030429.D (-417) (-)

2.47

300000

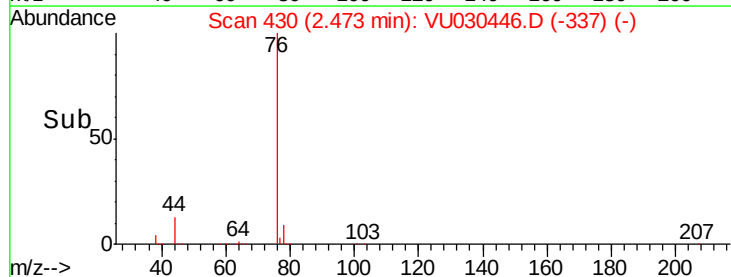
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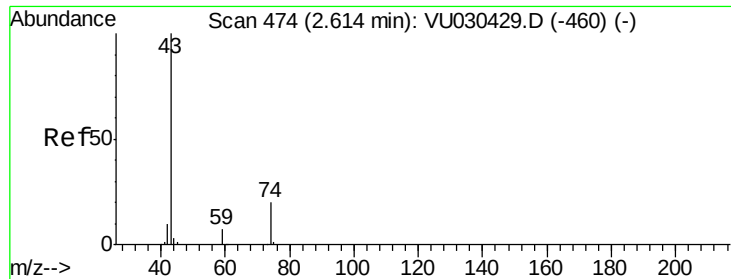
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0

2.40 2.45 2.50 2.55

Time-->

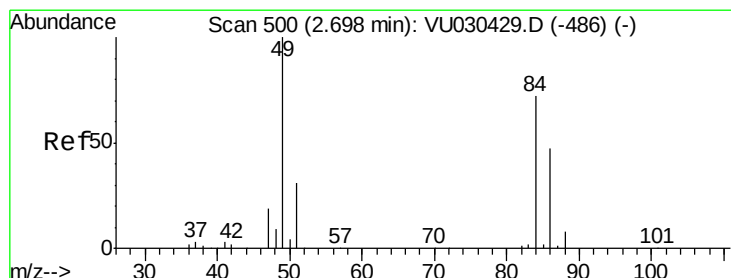
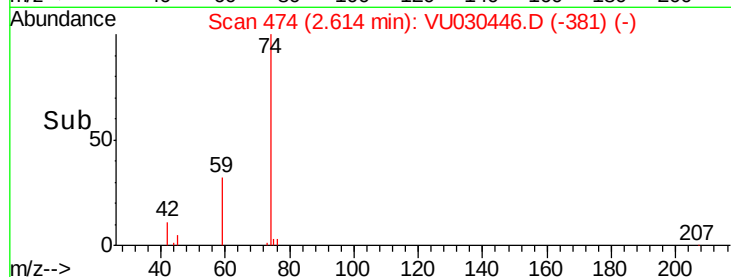
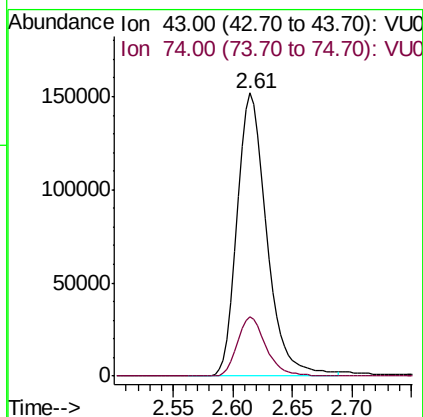
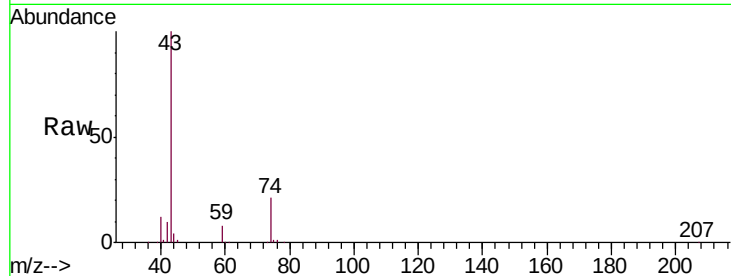




#15
Methyl Acetate
Concen: 53.803 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

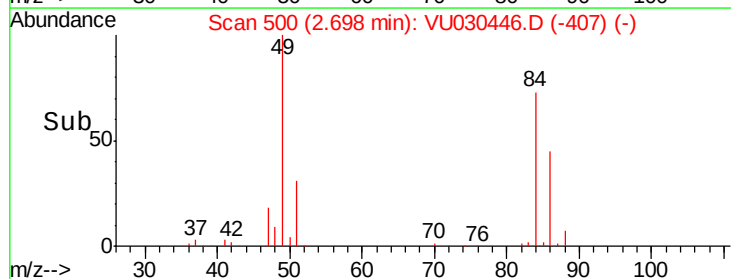
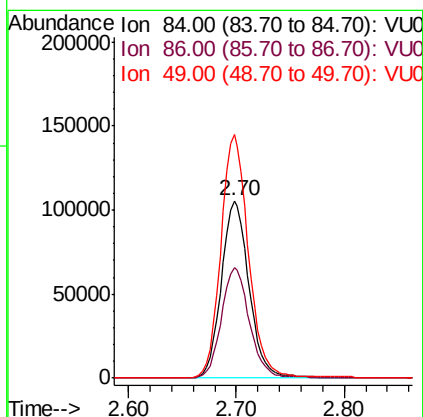
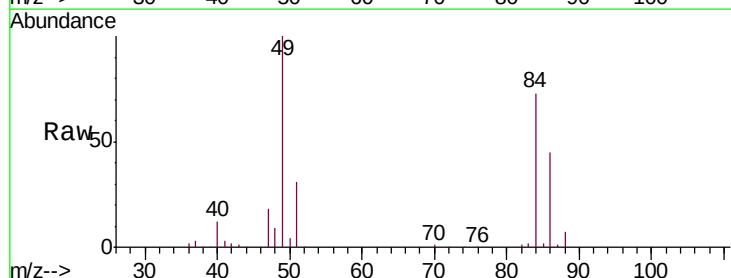
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

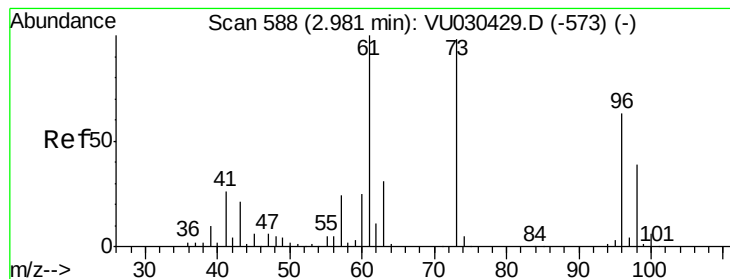
Tgt Ion: 43 Resp: 261320
Ion Ratio Lower Upper
43 100
74 20.7 0.0 0.0#



#16
Methylene chloride
Concen: 54.025 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

Tgt Ion: 84 Resp: 188916
Ion Ratio Lower Upper
84 100
86 62.0 44.3 82.3
49 137.3 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 51.286 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

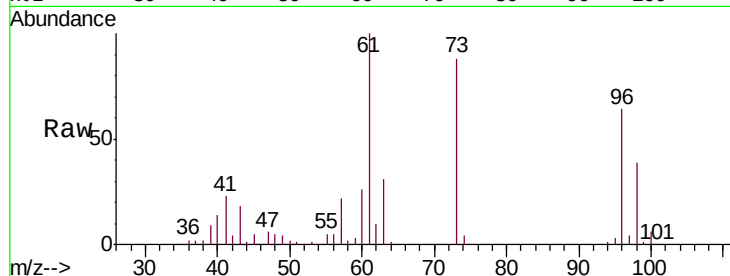
Tgt Ion: 96 Resp: 159603

Ion Ratio Lower Upper

96 100

61 156.7 108.6 201.8

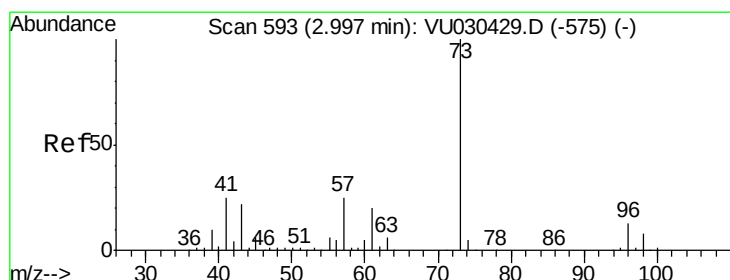
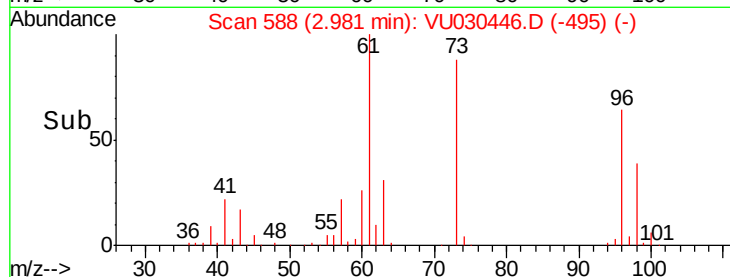
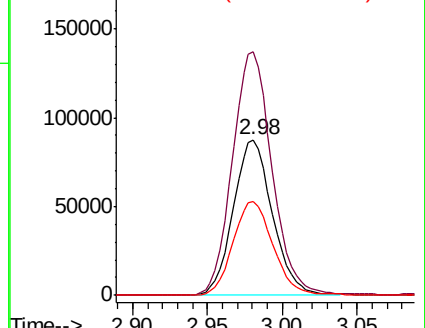
98 60.7 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030429.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU030429.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU030429.D (-573) (-)



#18

Methyl tert-butyl Ether

Concen: 53.774 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

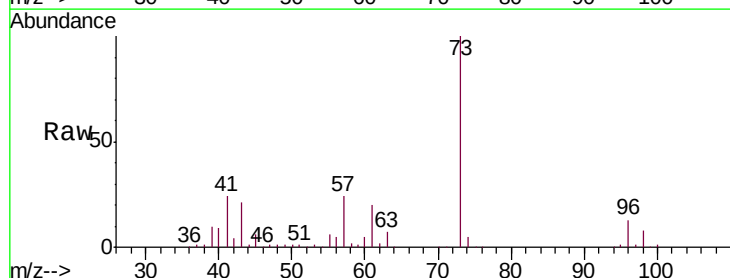
Tgt Ion: 73 Resp: 553404

Ion Ratio Lower Upper

73 100

43 20.5 16.6 24.8

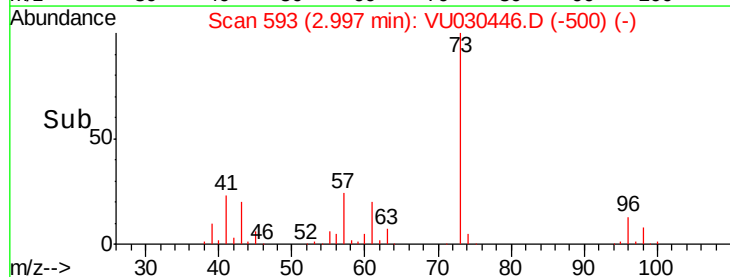
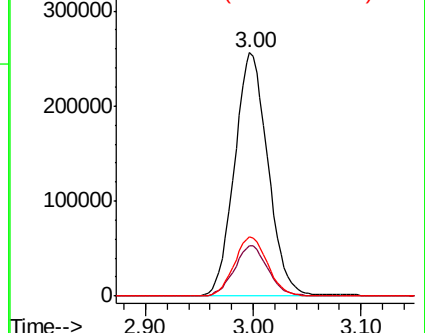
57 24.3 18.9 28.3

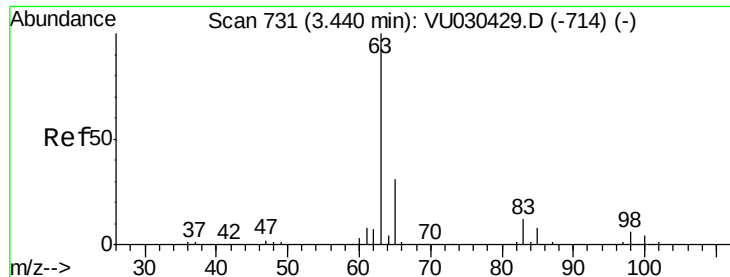


Abundance Ion 73.00 (72.70 to 73.70): VU030429.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU030429.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU030429.D (-575) (-)

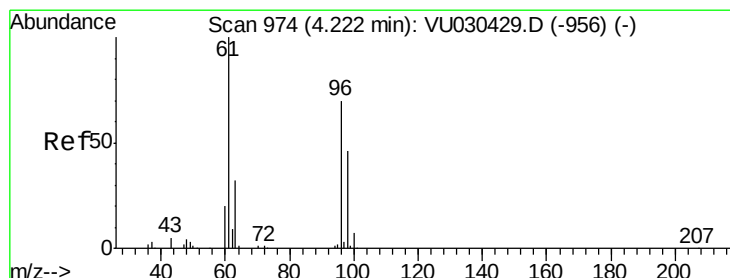
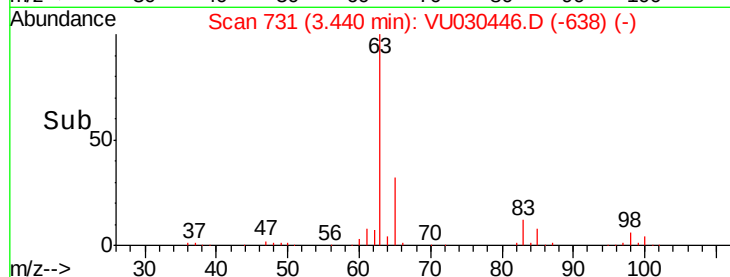
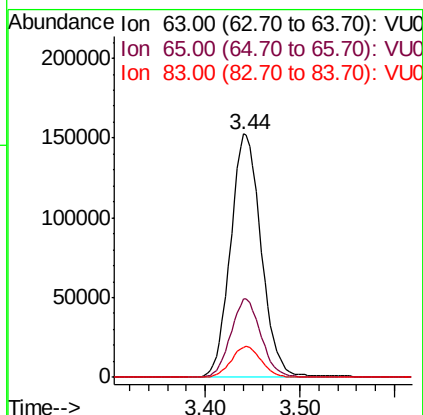
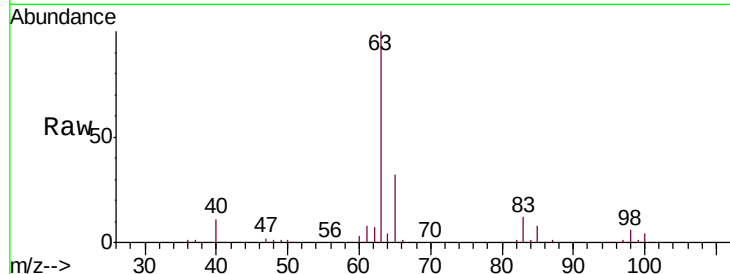




#19
 1,1-Dichloroethane
 Concen: 53.881 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

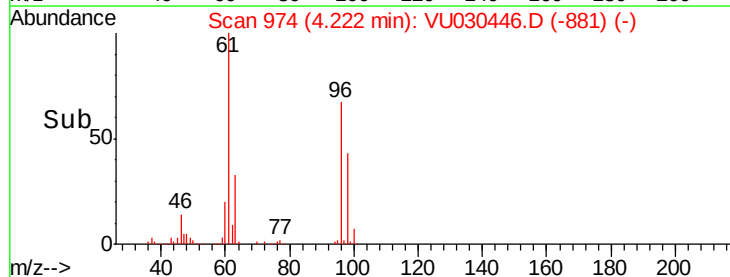
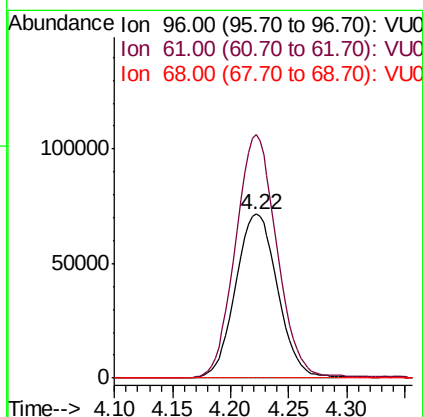
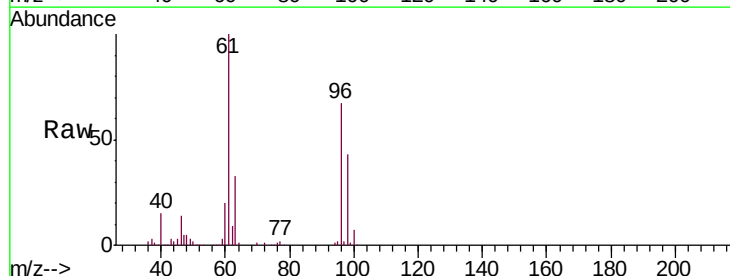
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

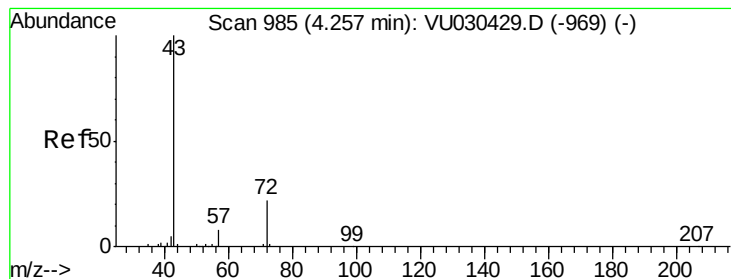
Tgt Ion: 63 Resp: 344015
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.0 40.8
 83 12.5 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 51.767 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion: 96 Resp: 180674
 Ion Ratio Lower Upper
 96 100
 61 148.5 98.4 182.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 105.653 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

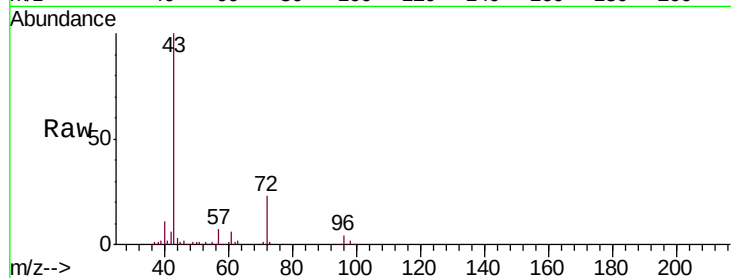
VSTD05033

Tgt Ion: 43 Resp: 405074

Ion Ratio Lower Upper

43 100

72 23.5 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030429.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030429.D (-969) (-)

4.26

150000

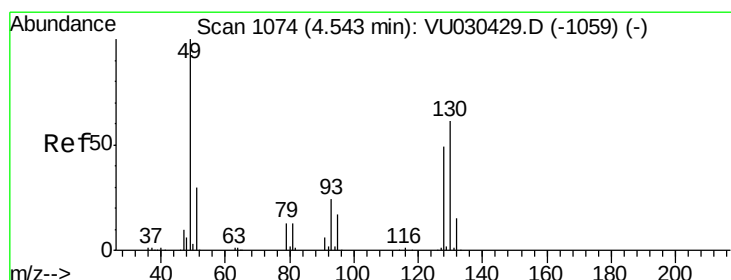
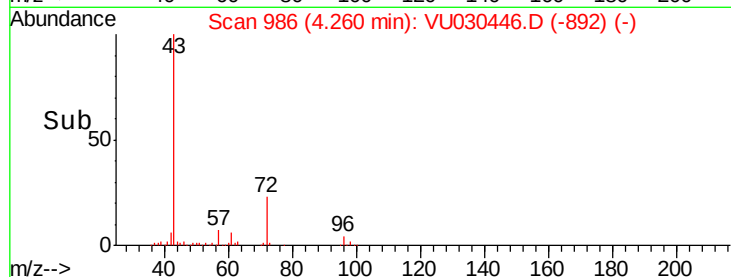
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 53.300 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Tgt Ion: 128 Resp: 86462

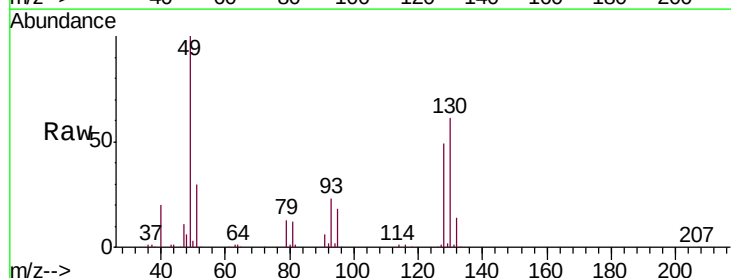
Ion Ratio Lower Upper

128 100

49 205.7 145.5 270.3

130 125.6 95.3 177.1

51 62.5 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030429.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030429.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030429.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030429.D (-1059) (-)

120000

100000

80000

60000

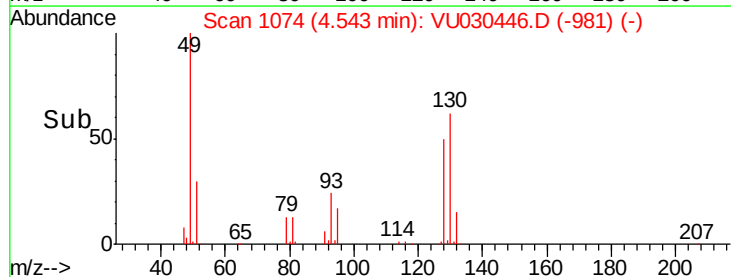
40000

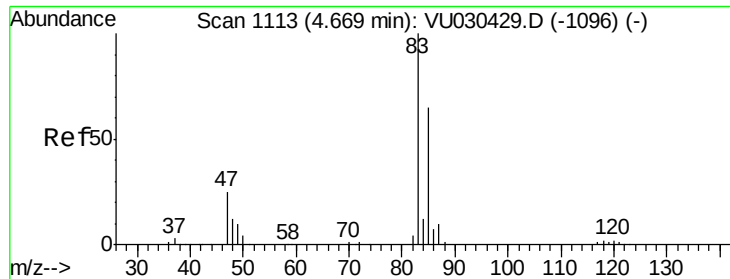
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->

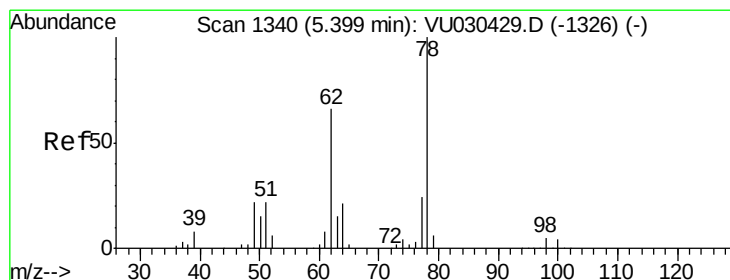
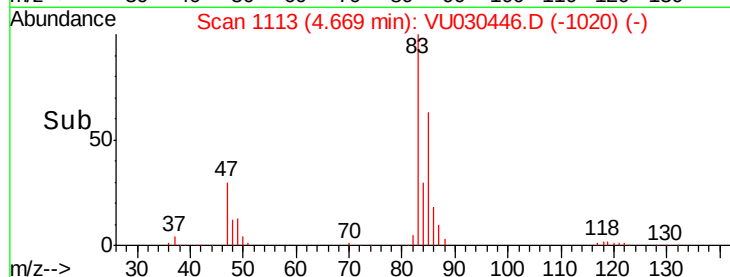
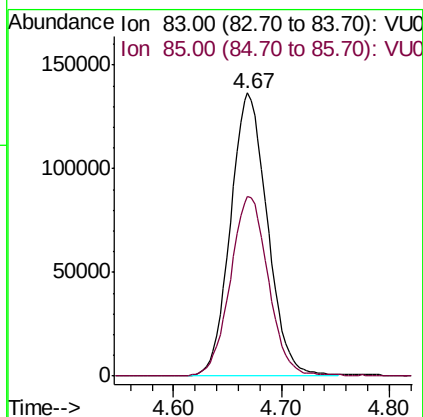
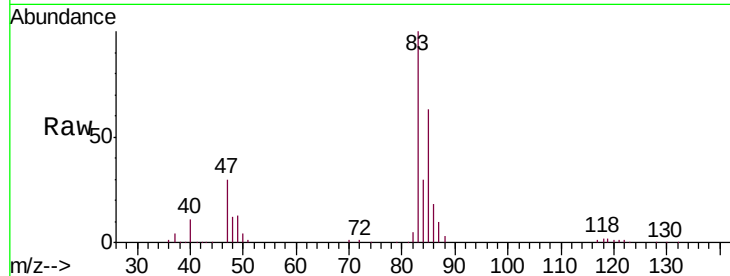




#25
Chloroform
Concen: 53.391 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

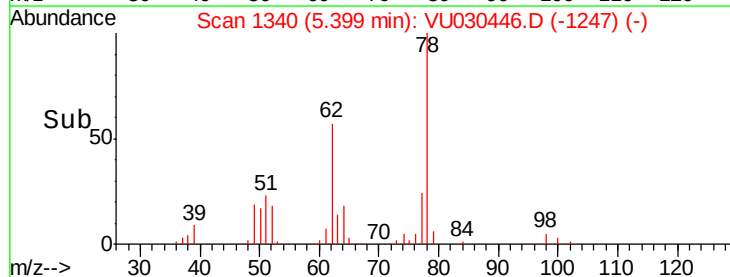
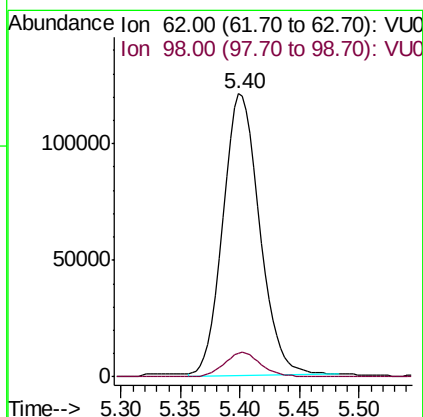
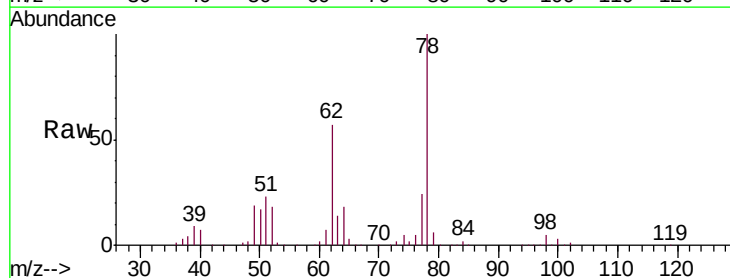
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

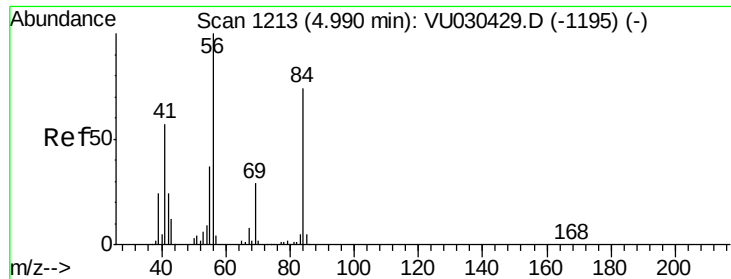
Tgt Ion: 83 Resp: 324106
Ion Ratio Lower Upper
83 100
85 63.5 44.4 82.4



#27
1,2-Dichloroethane
Concen: 54.191 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

Tgt Ion: 62 Resp: 258133
Ion Ratio Lower Upper
62 100
98 8.3 7.2 10.8

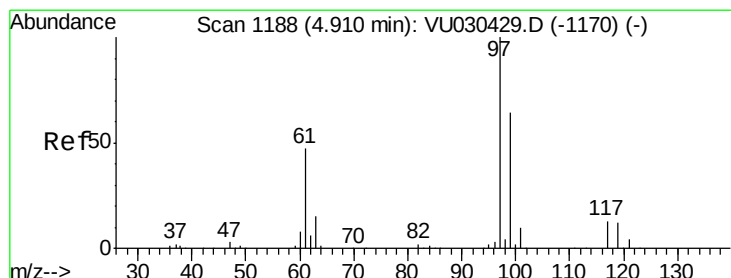
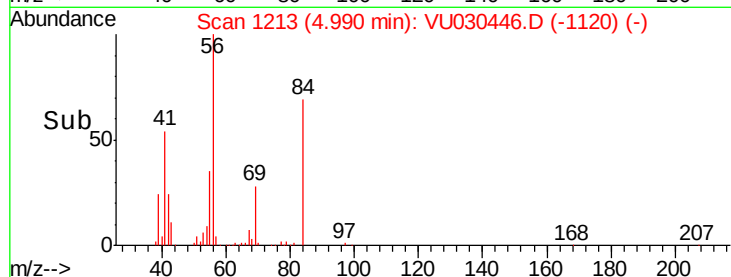
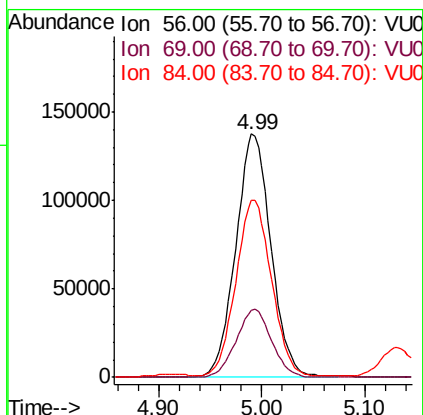
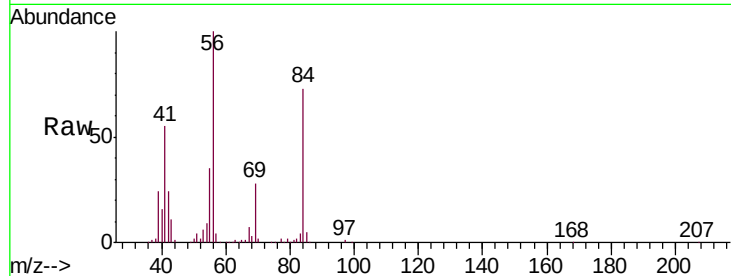




#29
Cyclohexane
Concen: 54.214 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

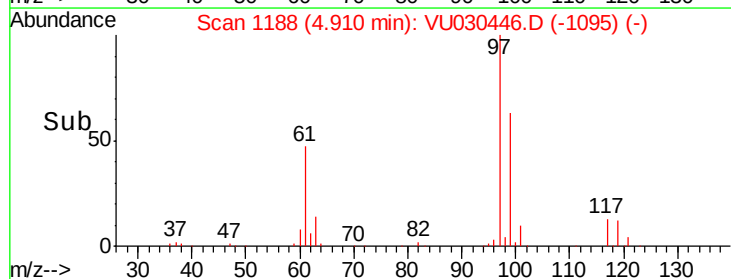
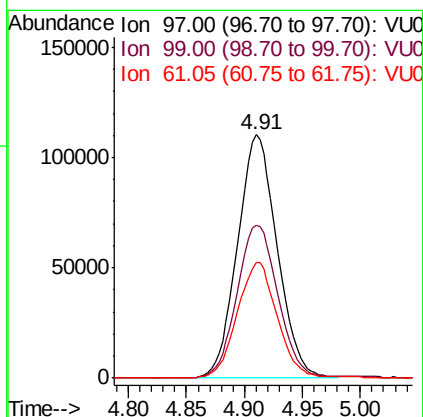
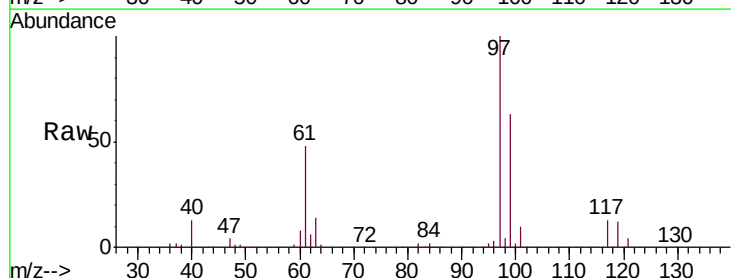
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

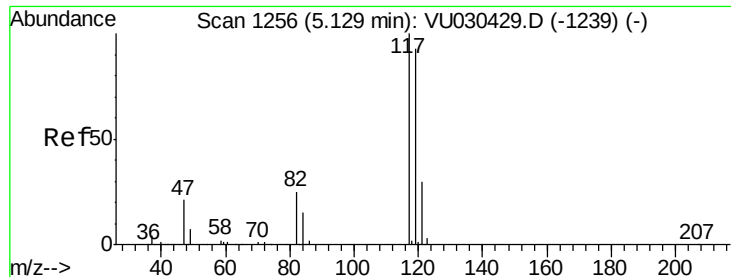
Tgt Ion: 56 Resp: 327723
Ion Ratio Lower Upper
56 100
69 28.0 22.9 34.3
84 73.5 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 53.700 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

Tgt Ion: 97 Resp: 262654
Ion Ratio Lower Upper
97 100
99 65.4 51.8 77.6
61 47.8 38.2 57.4





#31

Carbon tetrachloride

Concen: 53.946 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

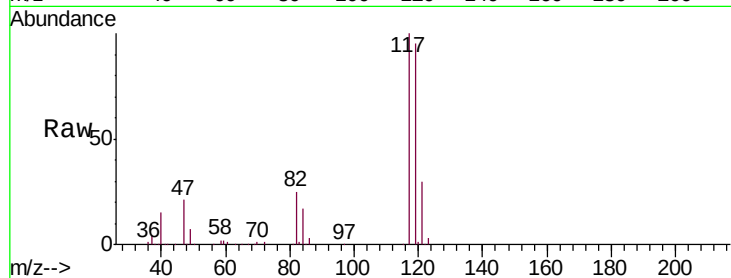
VSTD05033

Tgt Ion:117 Resp: 223648

Ion Ratio Lower Upper

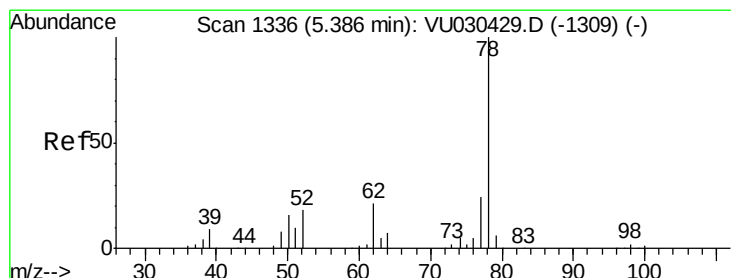
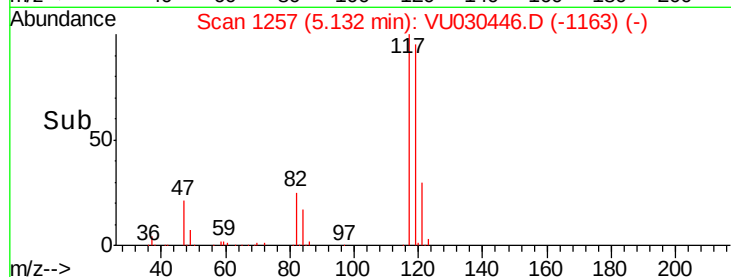
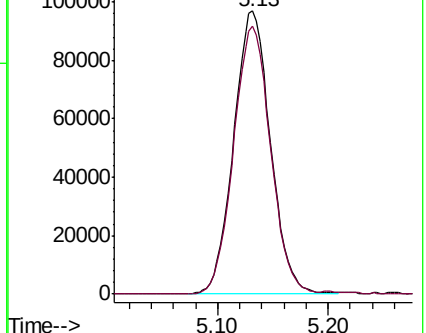
117 100

119 95.3 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.683 ug/L

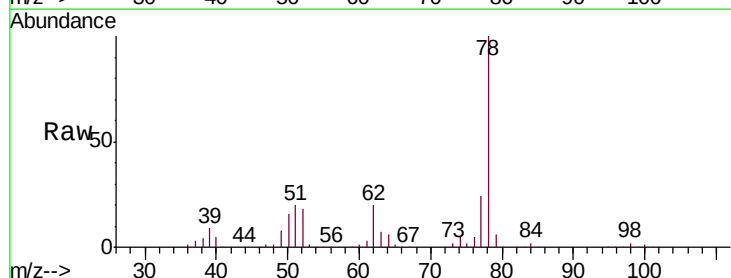
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

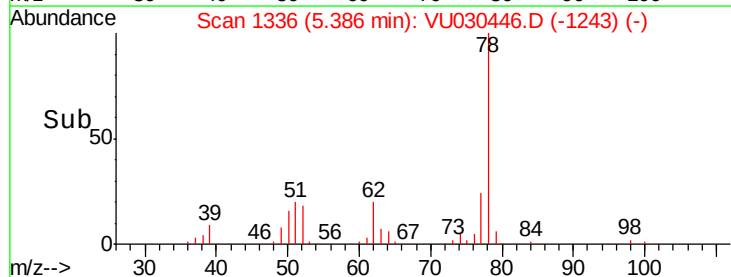
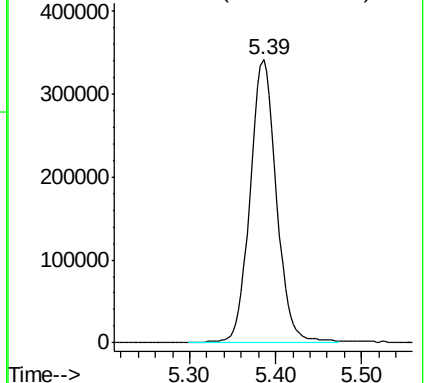
Lab File: VU030446.D

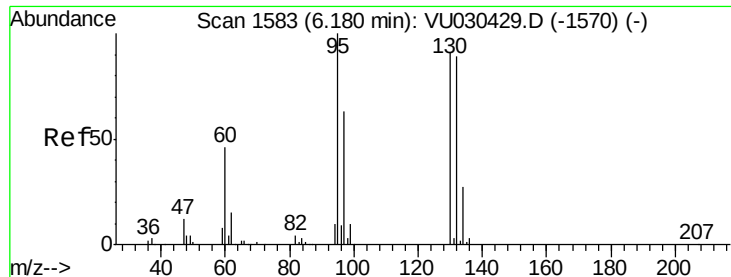
Acq: 26 Mar 2019 15:52

Tgt Ion: 78 Resp: 729971



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.398 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

Tgt Ion: 95 Resp: 175156

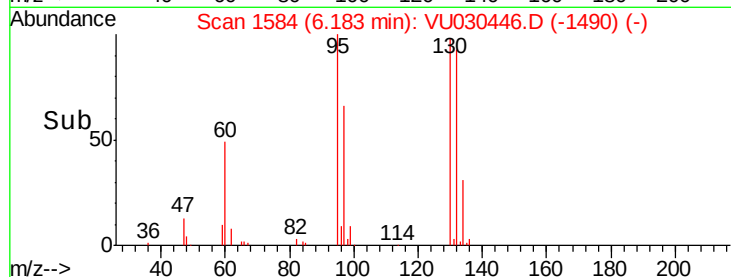
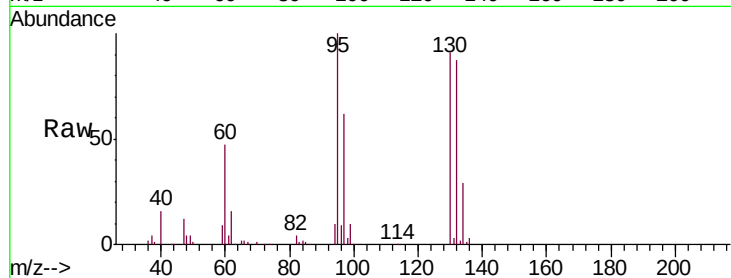
Ion Ratio Lower Upper

95 100

97 62.0 45.7 84.9

132 87.2 63.8 118.4

130 91.2 65.7 121.9

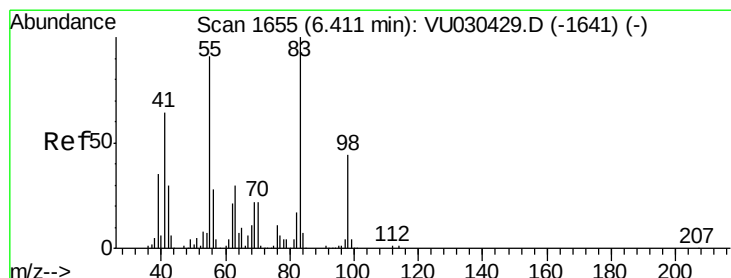
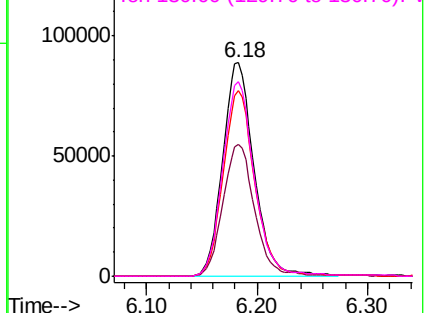


Abundance Ion 95.00 (94.70 to 95.70): VU030446.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU030446.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU030446.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU030446.D (-1490) (-)



#35

Methylcyclohexane

Concen: 52.191 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

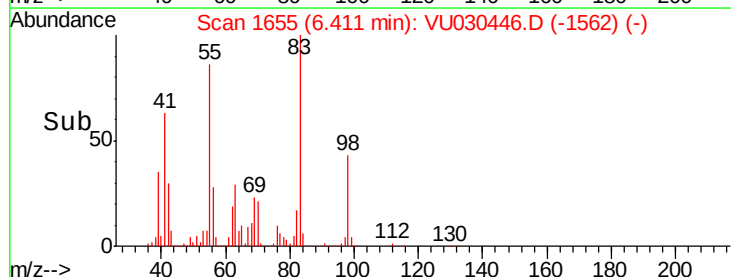
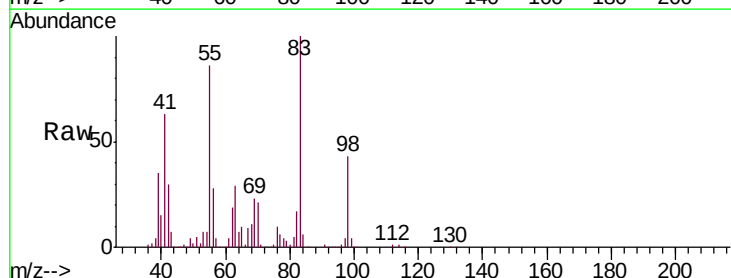
Tgt Ion: 83 Resp: 287089

Ion Ratio Lower Upper

83 100

55 88.6 71.4 107.0

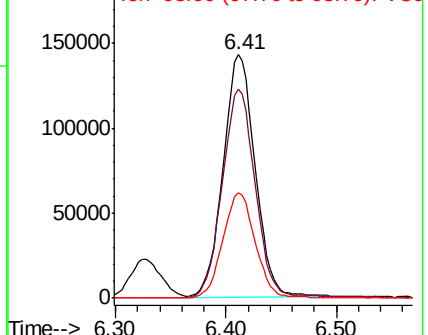
98 43.8 36.0 54.0

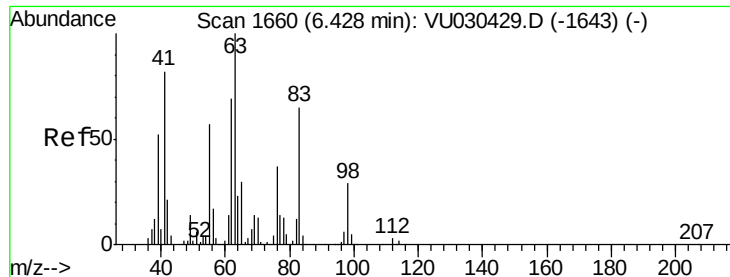


Abundance Ion 83.00 (82.70 to 83.70): VU030446.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU030446.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU030446.D (-1562) (-)

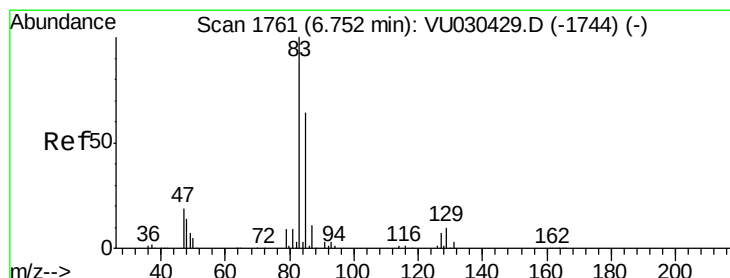
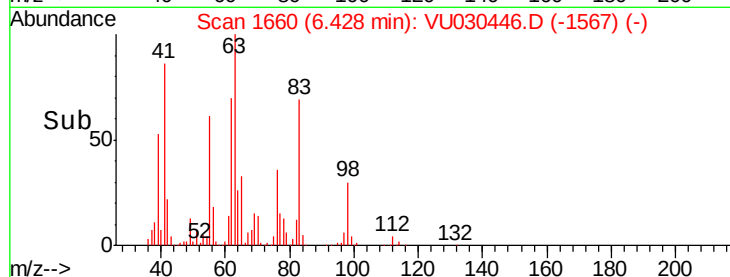
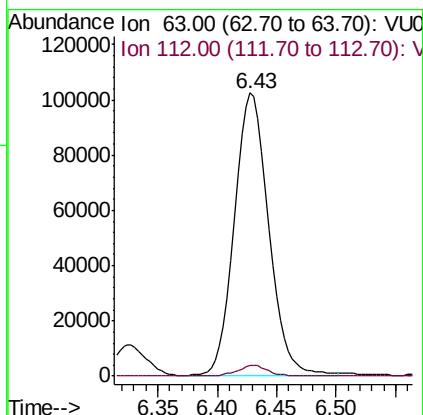
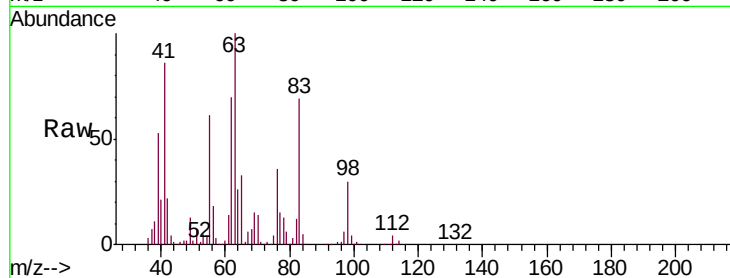




#37
 1,2-Dichloropropane
 Concen: 52.619 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

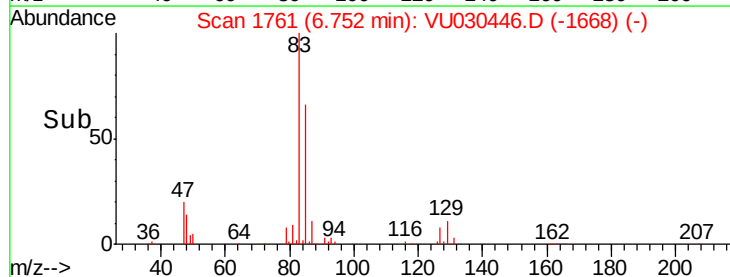
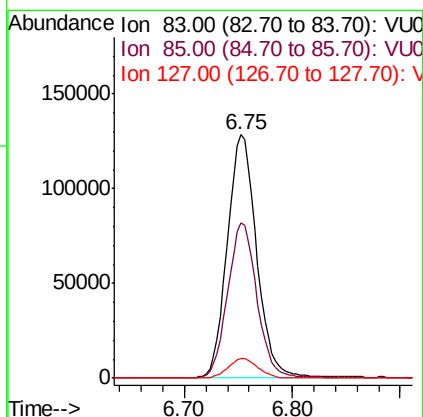
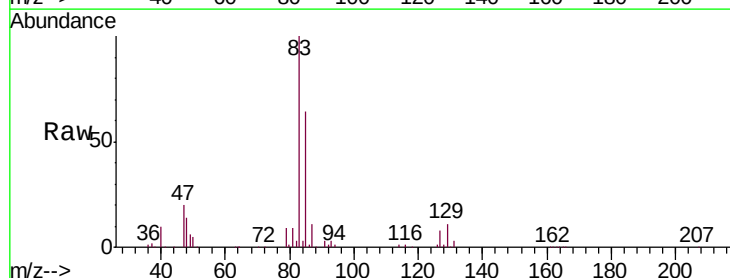
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

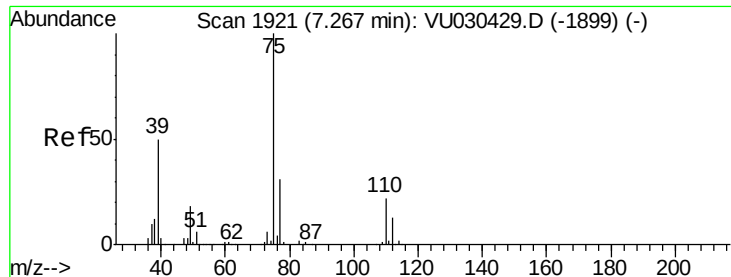
Tgt Ion: 63 Resp: 203053
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.6 4.0



#38
 Bromodichloromethane
 Concen: 53.053 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion: 83 Resp: 243258
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.0 83.6
 127 8.2 6.6 10.0

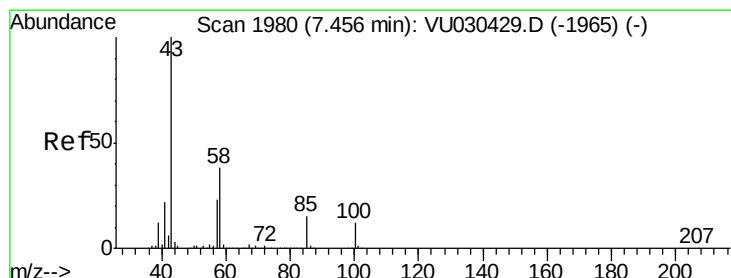
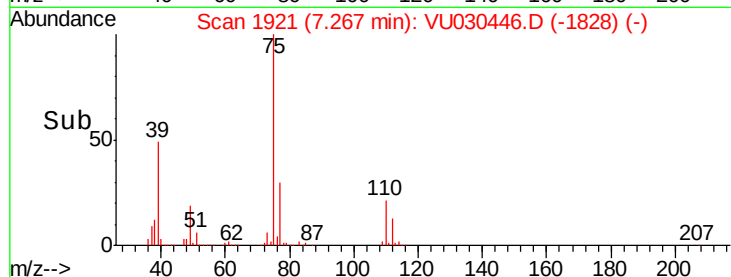
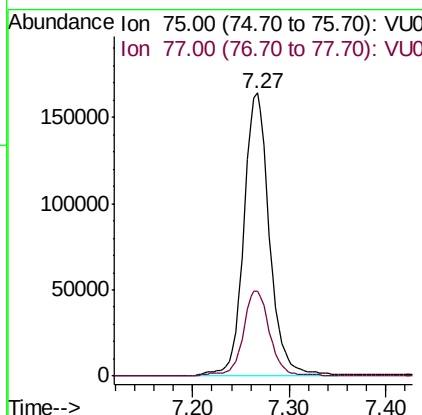
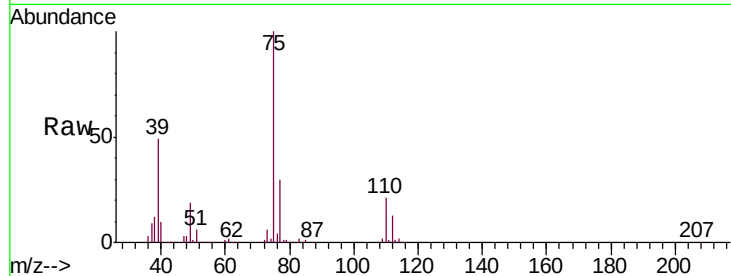




#39
 cis-1,3-Dichloropropene
 Concen: 54.763 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

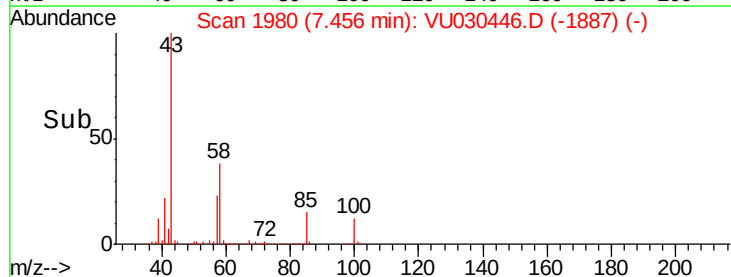
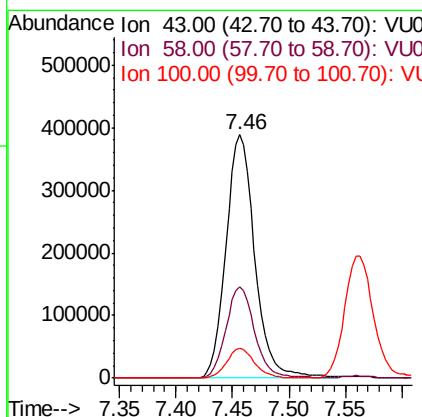
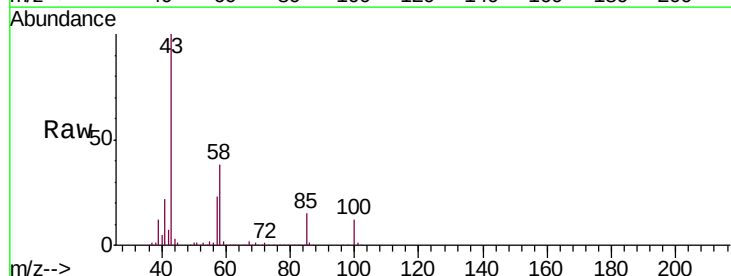
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

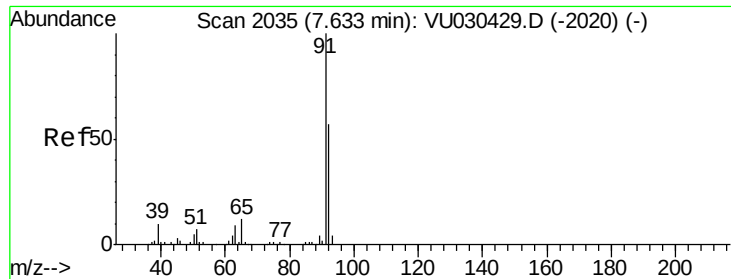
Tgt Ion: 75 Resp: 303750
 Ion Ratio Lower Upper
 75 100
 77 30.1 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 106.435 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion: 43 Resp: 689895
 Ion Ratio Lower Upper
 43 100
 58 37.5 30.6 45.8
 100 11.9 9.5 14.3





#42

Toluene

Concen: 53.275 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

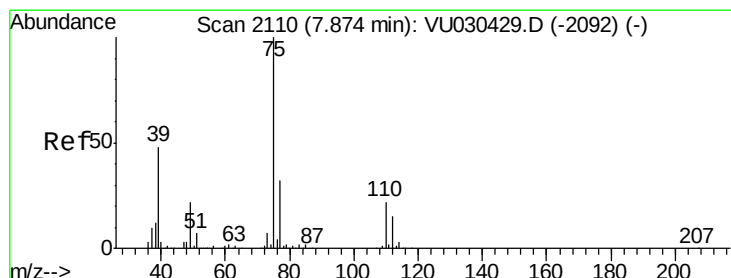
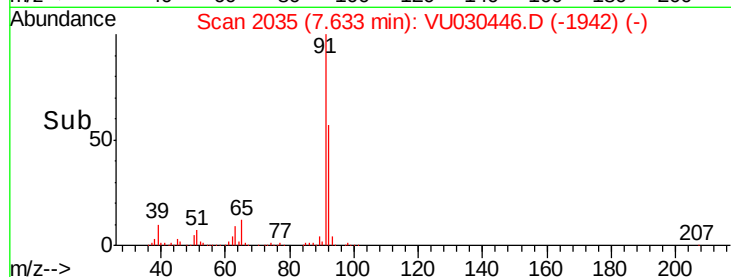
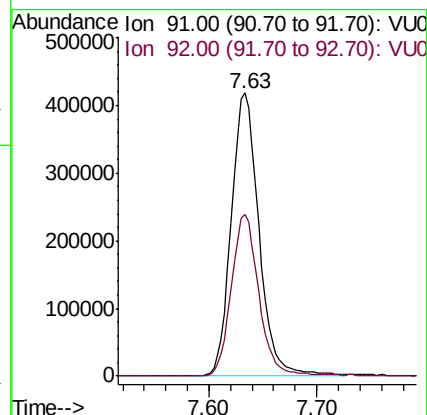
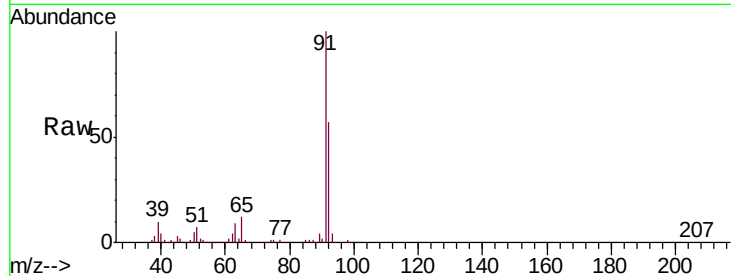
VSTD05033

Tgt Ion: 91 Resp: 751829

Ion Ratio Lower Upper

91 100

92 57.4 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 54.547 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU030446.D

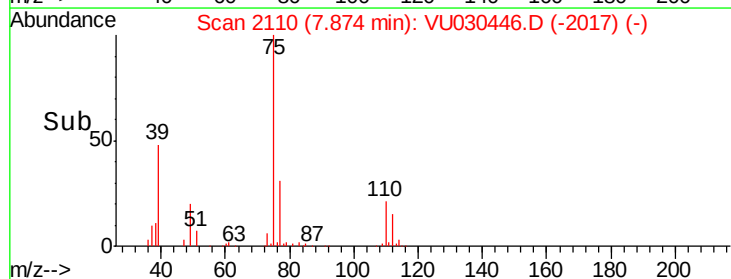
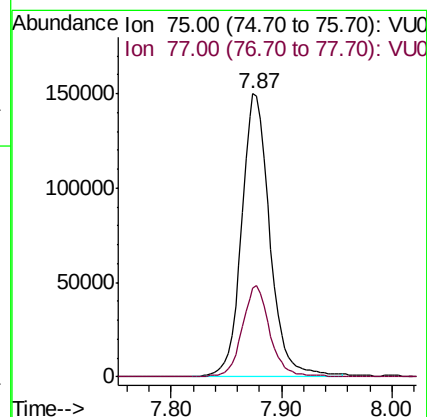
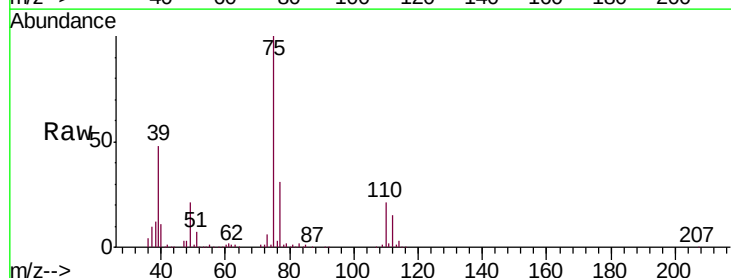
Acq: 26 Mar 2019 15:52

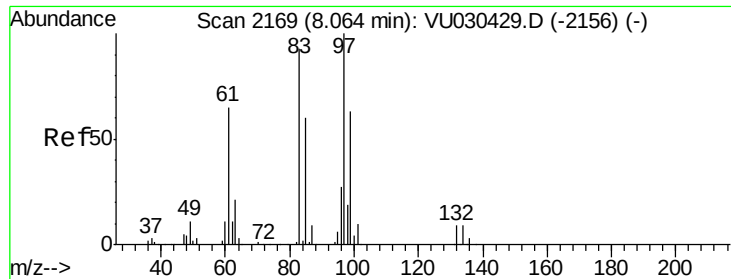
Tgt Ion: 75 Resp: 266212

Ion Ratio Lower Upper

75 100

77 31.2 22.0 40.8

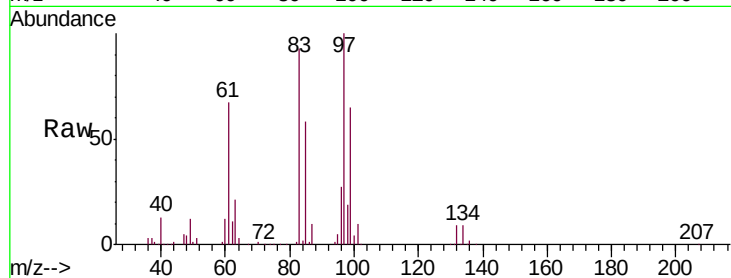




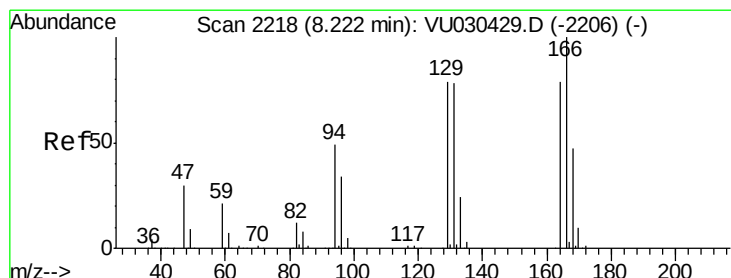
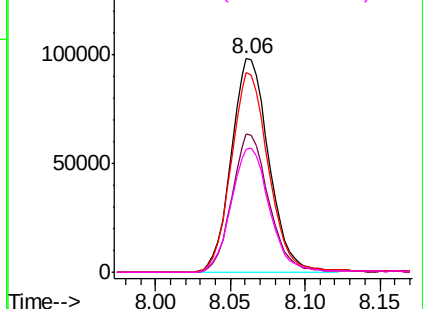
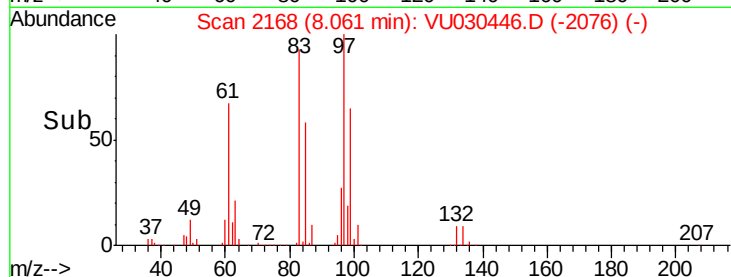
#45
 1,1,2-Trichloroethane
 Concen: 52.699 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

Tgt Ion:	97	Resp:	171828
Ion	Ratio	Lower	Upper
97	100		
99	64.8	44.0	81.8
83	93.4	65.3	121.3
85	57.5	41.8	77.6

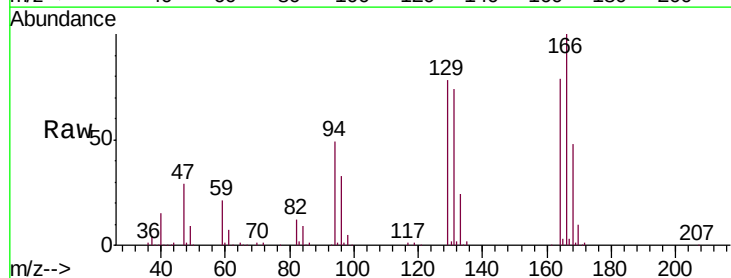


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

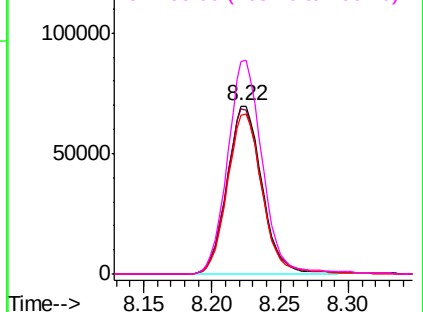
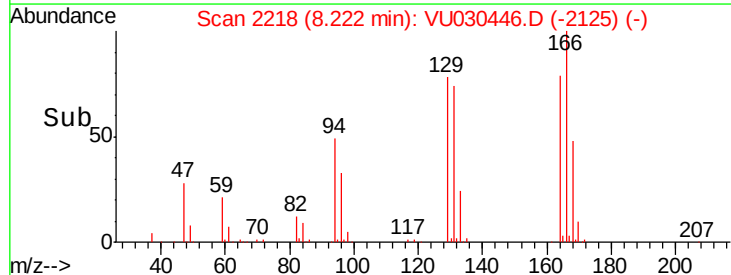


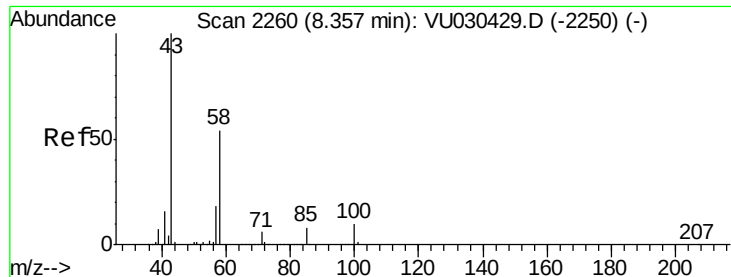
#46
 Tetrachloroethene
 Concen: 53.247 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion:	164	Resp:	124322
Ion	Ratio	Lower	Upper
164	100		
129	98.5	68.1	126.5
131	94.0	67.7	125.7
166	126.4	92.4	171.6



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

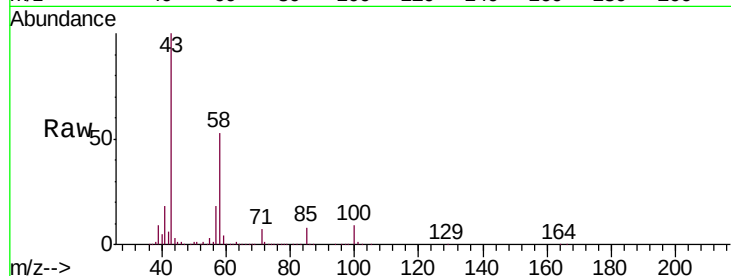




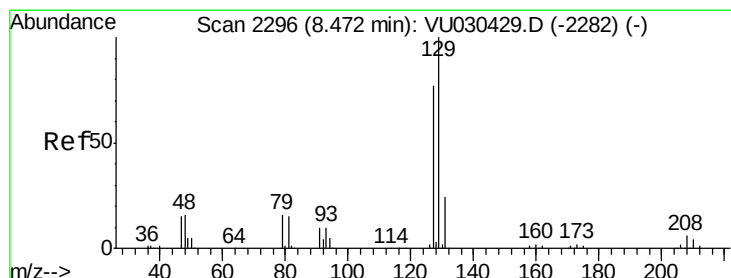
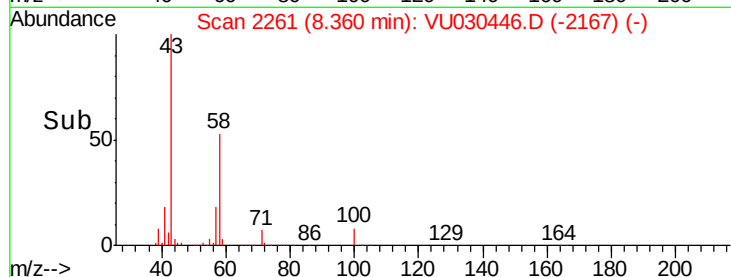
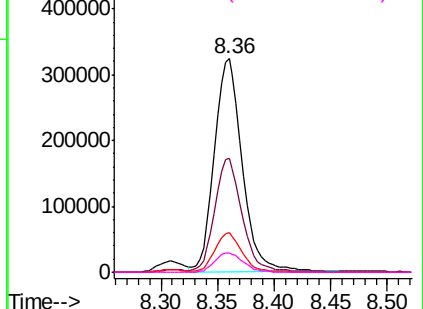
#48
2-Hexanone
Concen: 104.144 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Tgt Ion:	43	Resp:	553261
Ion	Ratio	Lower	Upper
43	100		
58	52.6	42.5	63.7
57	17.7	15.0	22.6
100	9.1	7.4	11.2

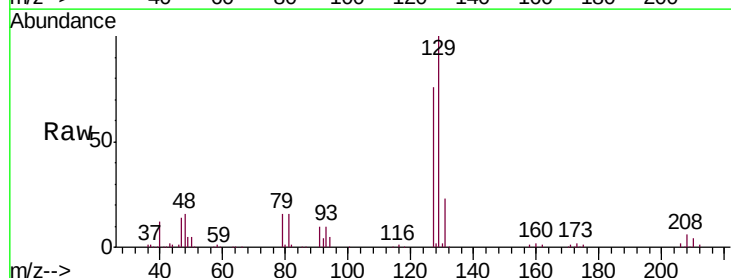


Abundance Ion 43.00 (42.70 to 43.70): VU030429.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU030429.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU030429.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU030429.D (-2250) (-)

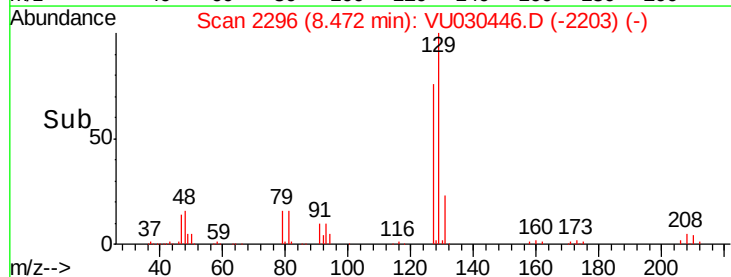
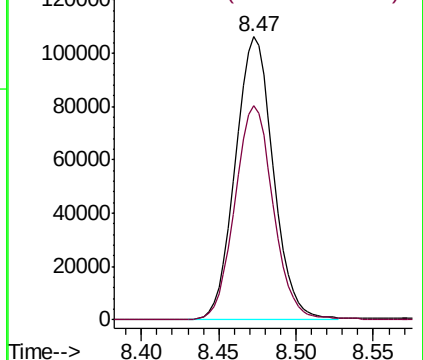


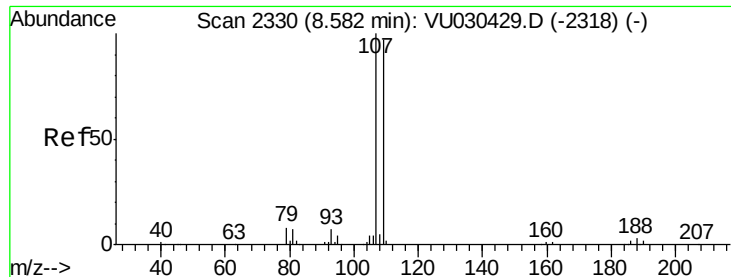
#49
Dibromochloromethane
Concen: 53.501 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030446.D
Acq: 26 Mar 2019 15:52

Tgt Ion:	129	Resp:	181260
Ion	Ratio	Lower	Upper
129	100		
127	75.8	53.2	98.8



Abundance Ion 129.00 (128.70 to 129.70): VU030429.D (-2282) (-)
Ion 127.00 (126.70 to 127.70): VU030429.D (-2282) (-)





#50

1,2-Dibromoethane

Concen: 53.176 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

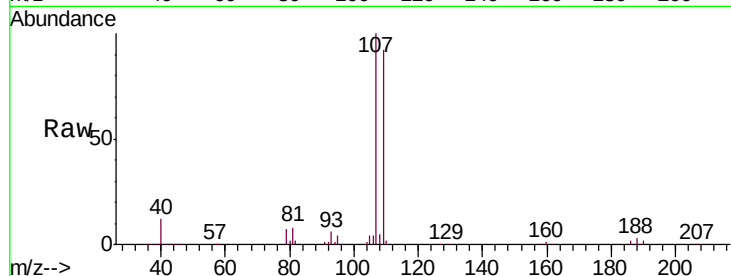
Tgt Ion:107 Resp: 186079

Ion Ratio Lower Upper

107 100

109 91.7 65.8 122.2

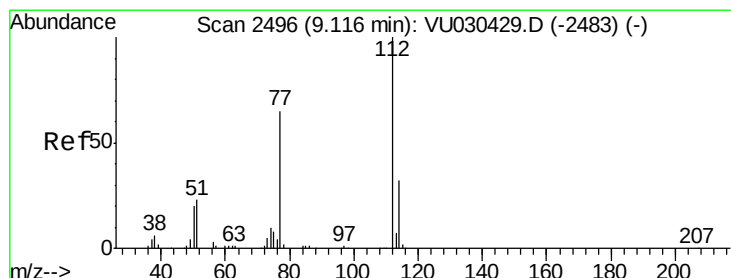
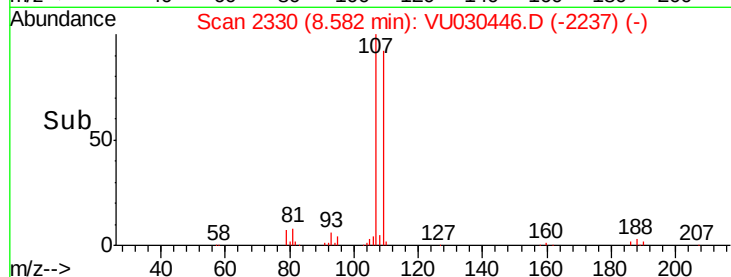
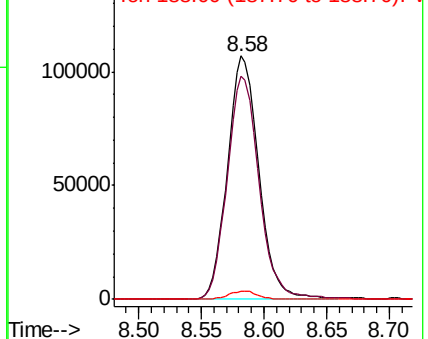
188 3.2 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 53.539 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

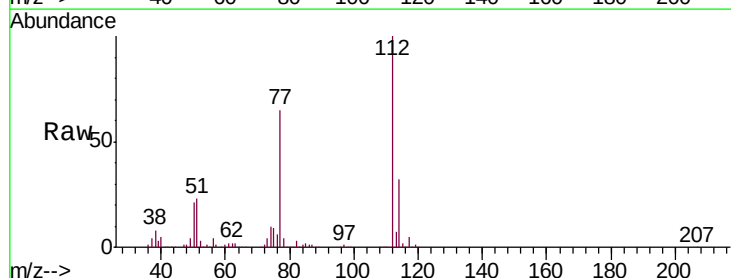
Tgt Ion:112 Resp: 457912

Ion Ratio Lower Upper

112 100

114 31.5 21.5 39.9

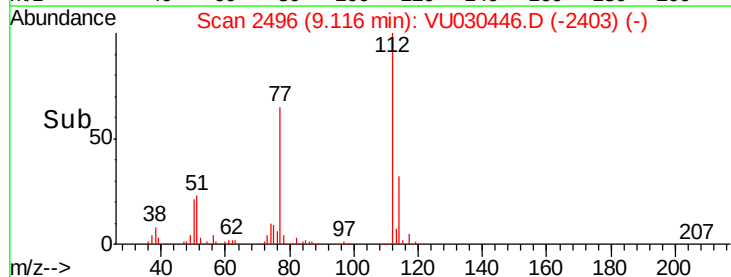
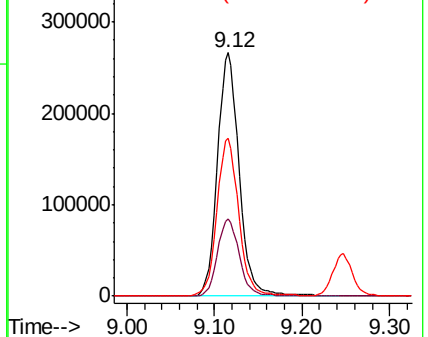
77 64.9 51.4 77.0

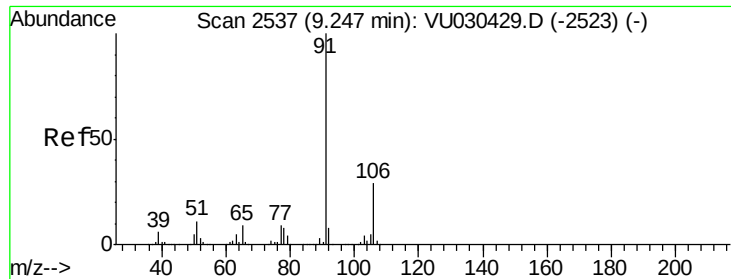


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 53.555 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

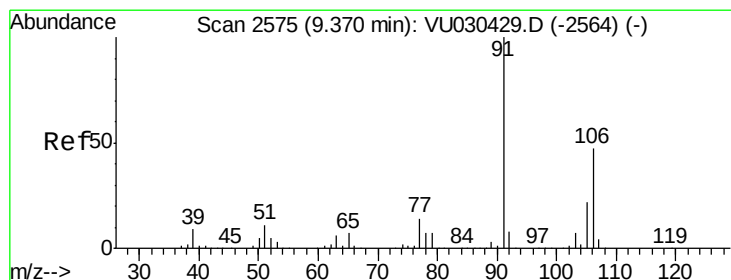
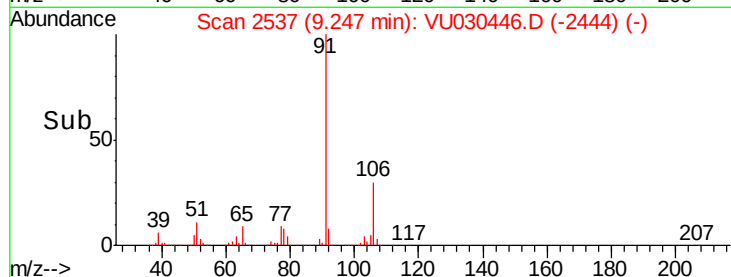
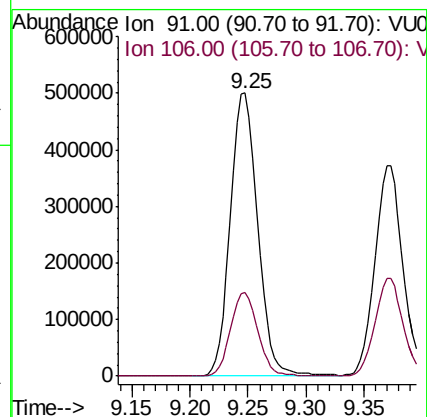
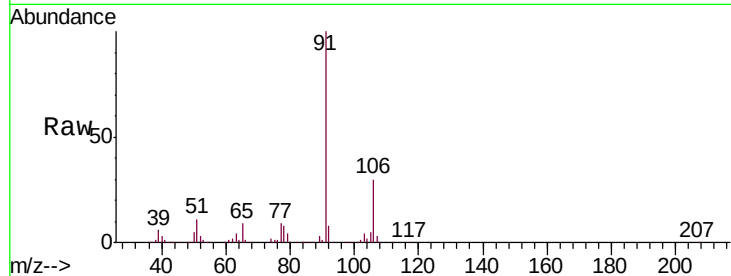
VSTD05033

Tgt Ion: 91 Resp: 818719

Ion Ratio Lower Upper

91 100

106 29.6 20.6 38.2



#53

m,p-Xylene

Concen: 53.459 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030446.D

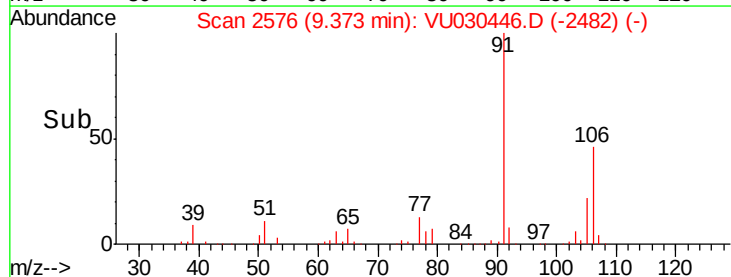
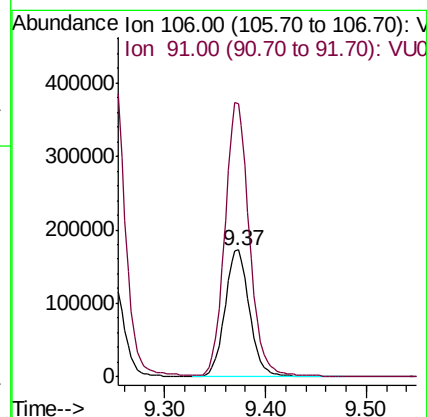
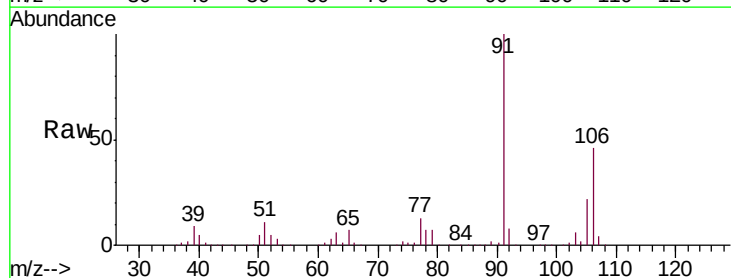
Acq: 26 Mar 2019 15:52

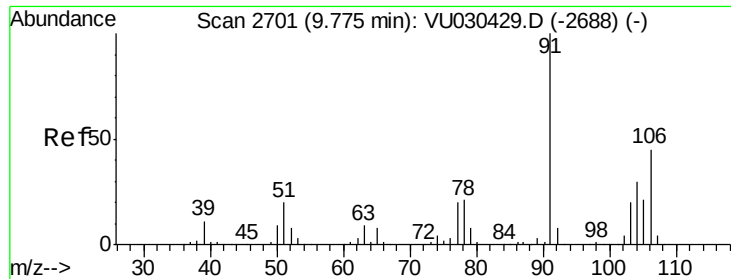
Tgt Ion: 106 Resp: 295087

Ion Ratio Lower Upper

106 100

91 215.3 151.2 280.8





#54

o-xylene

Concen: 54.352 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

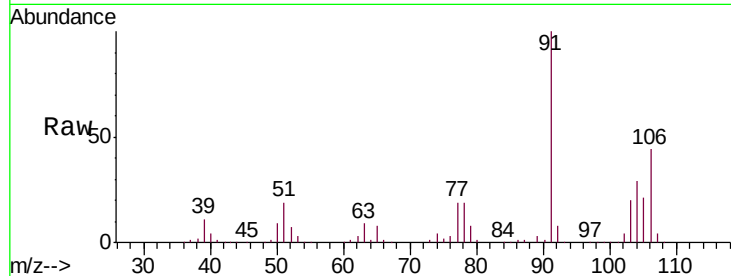
VSTD05033

Tgt Ion:106 Resp: 292736

Ion Ratio Lower Upper

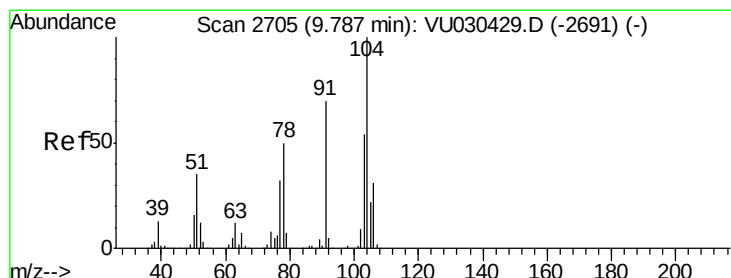
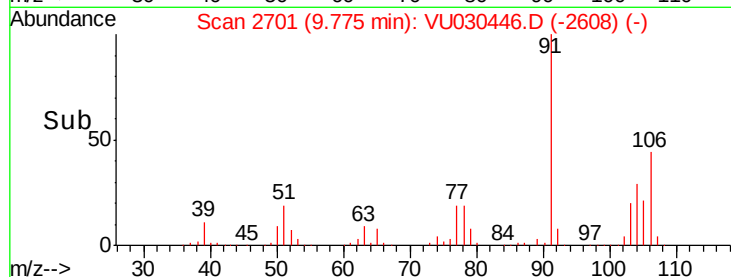
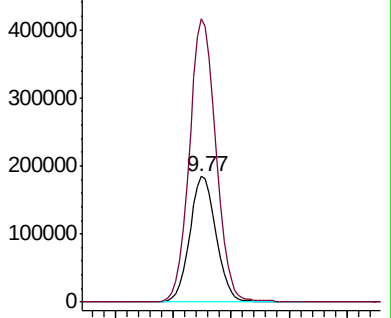
106 100

91 225.3 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.333 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030446.D

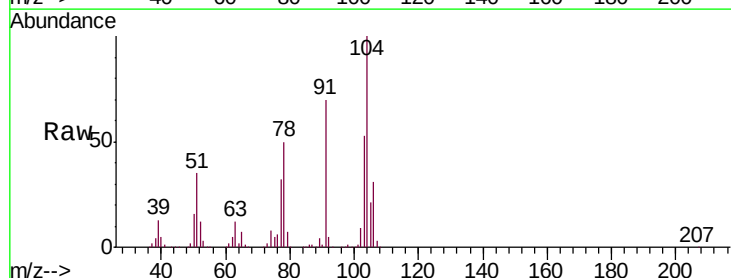
Acq: 26 Mar 2019 15:52

Tgt Ion:104 Resp: 504094

Ion Ratio Lower Upper

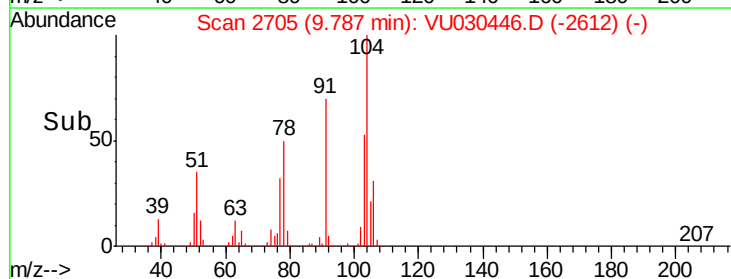
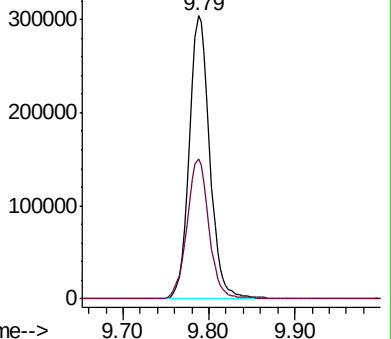
104 100

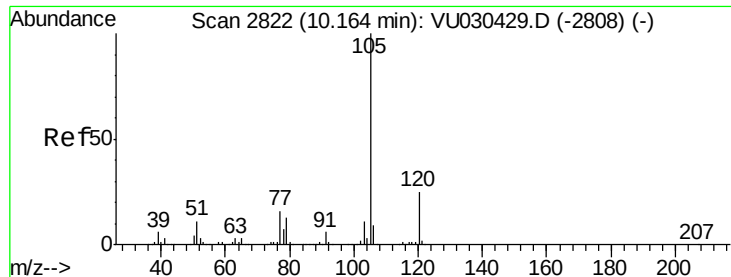
78 49.6 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.646 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

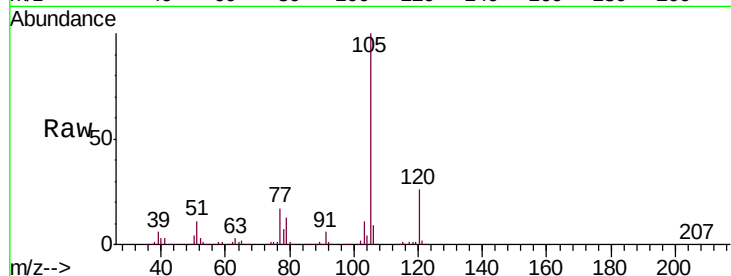
Tgt Ion: 105 Resp: 765064

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.2

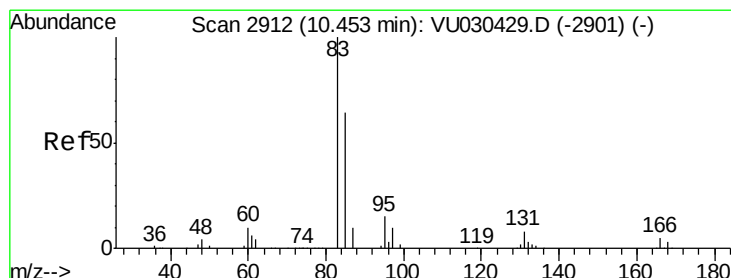
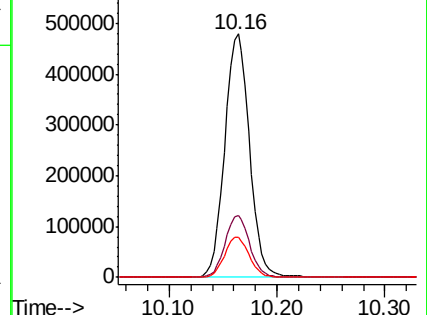
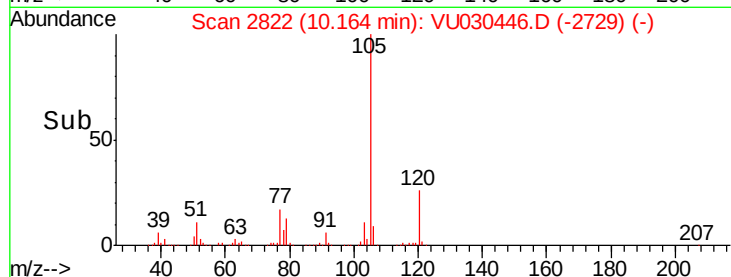
77 16.7 13.2 19.8



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: 52.473 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

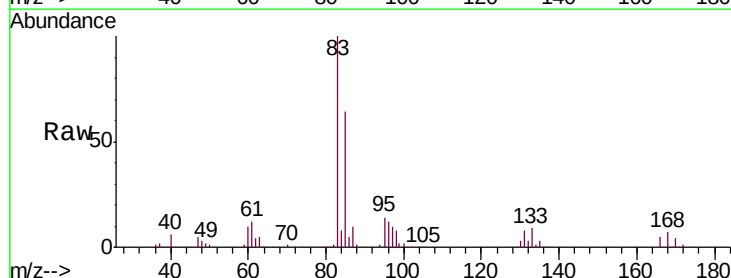
Tgt Ion: 83 Resp: 315325

Ion Ratio Lower Upper

83 100

85 64.3 44.3 82.3

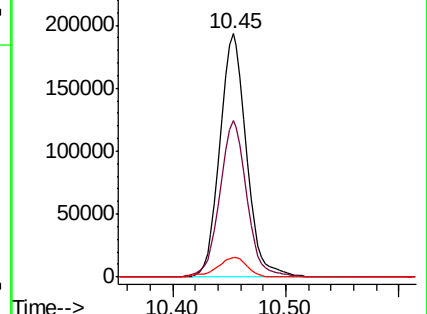
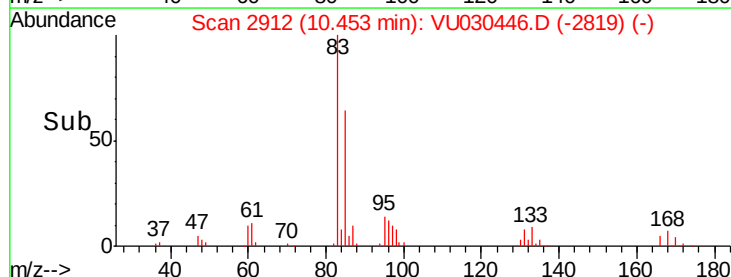
131 8.3 6.7 10.1

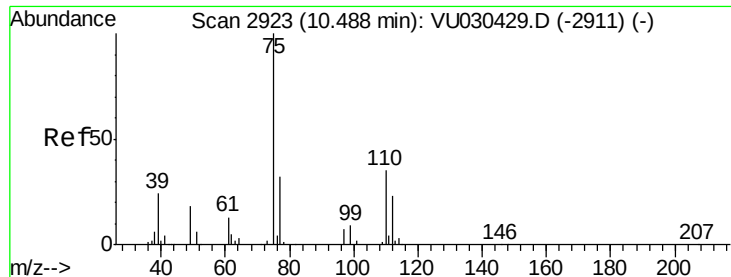


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.110 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

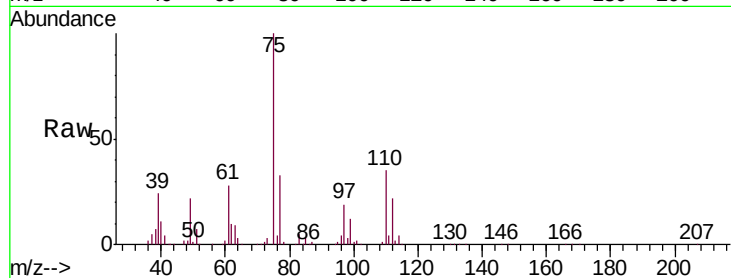
VSTD05033

Tgt Ion: 75 Resp: 244765

Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU030429.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU030429.D (-2911) (-)

10.49

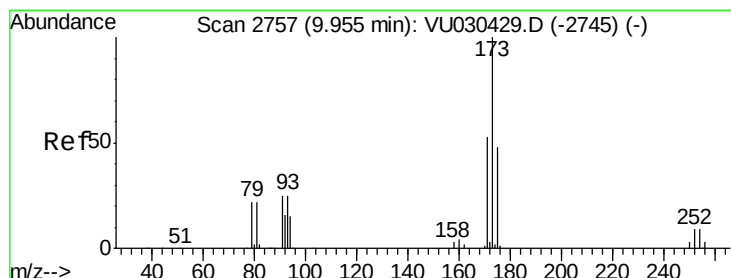
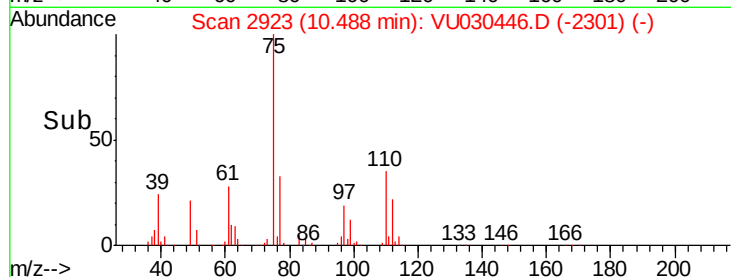
150000

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 53.242 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

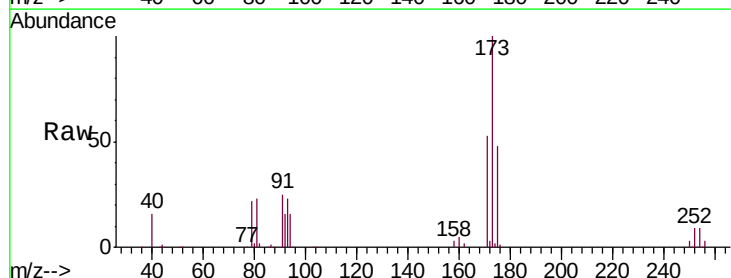
Tgt Ion: 173 Resp: 130862

Ion Ratio Lower Upper

173 100

175 47.9 38.5 57.7

254 8.4 6.8 10.2



Abundance Ion 173.00 (172.70 to 173.70): VU030429.D (-2745) (-)

Ion 175.00 (174.70 to 175.70): VU030429.D (-2745) (-)

Ion 254.00 (253.70 to 254.70): VU030429.D (-2745) (-)

9.95

100000

80000

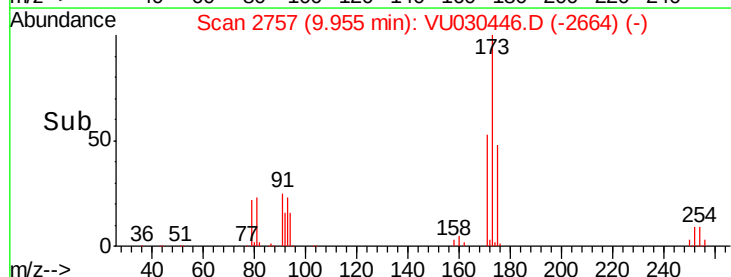
60000

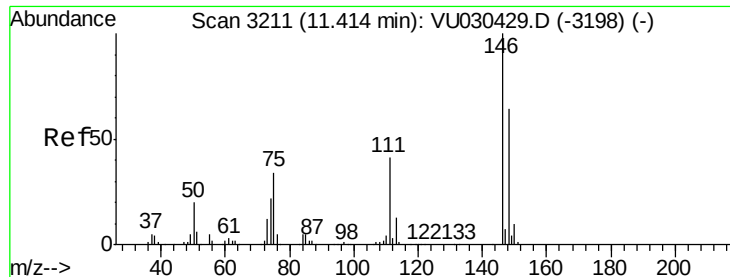
40000

20000

0

Time--> 9.90 10.00

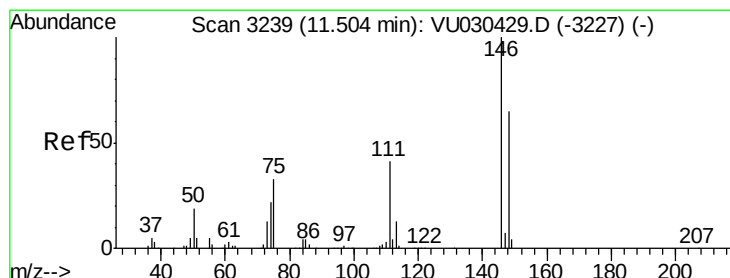
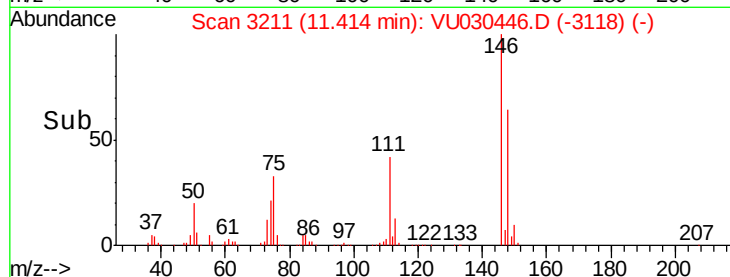
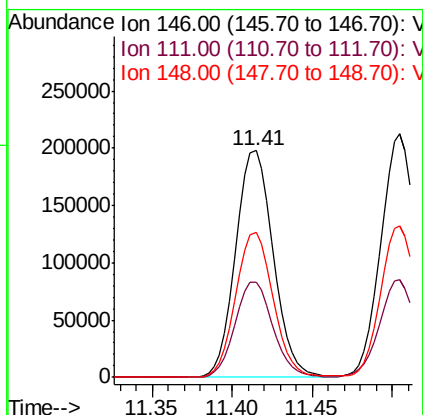
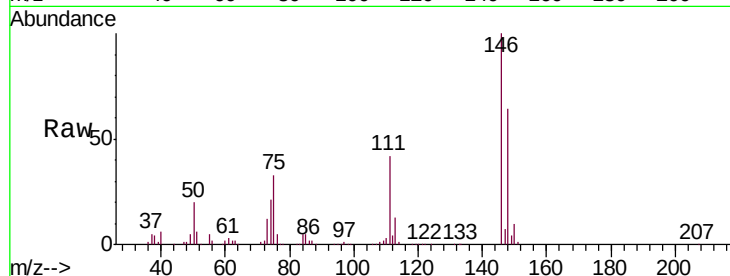




#62
 1,3-Dichlorobenzene
 Concen: 52.490 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

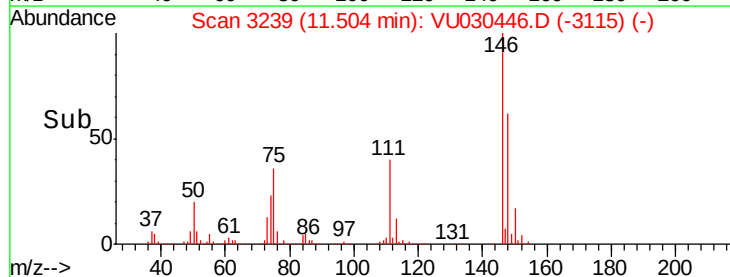
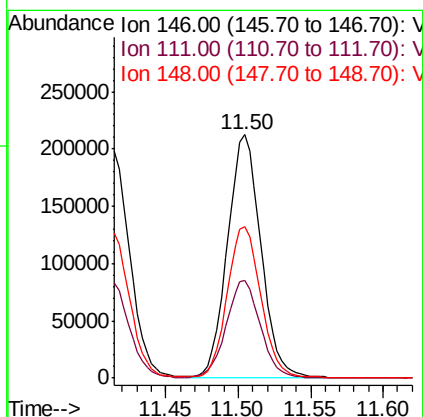
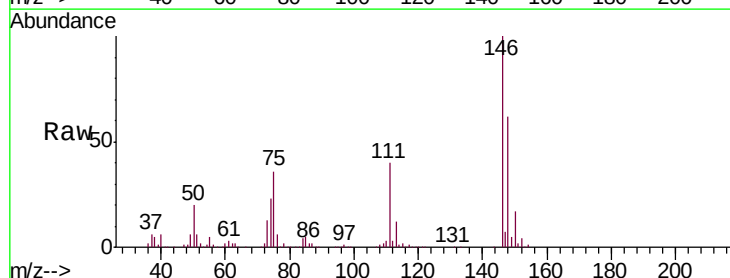
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

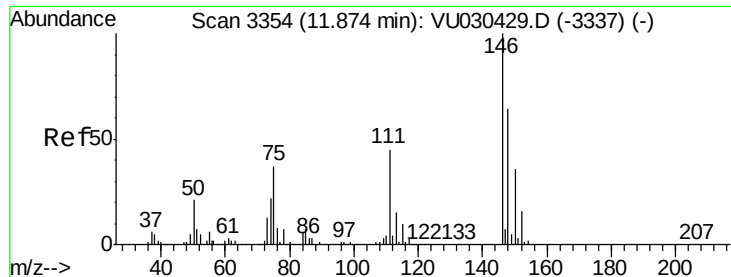
Tgt Ion:146 Resp: 317332
 Ion Ratio Lower Upper
 146 100
 111 42.1 29.2 54.2
 148 64.0 44.4 82.4



#63
 1,4-Dichlorobenzene
 Concen: 54.318 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion:146 Resp: 338061
 Ion Ratio Lower Upper
 146 100
 111 40.1 28.7 53.3
 148 62.2 44.3 82.3

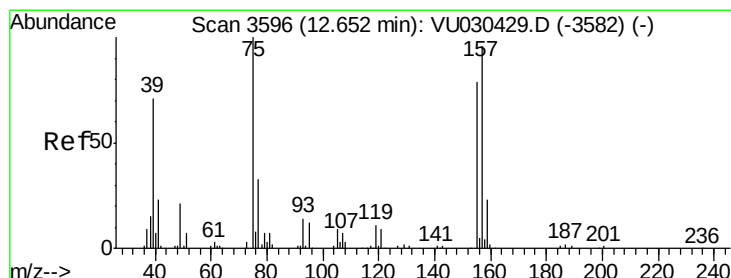
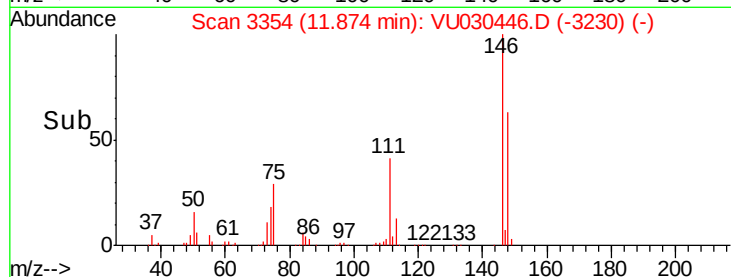
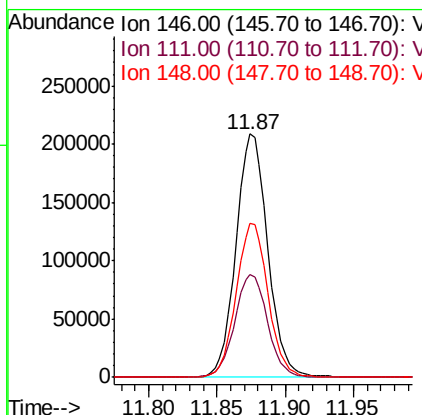
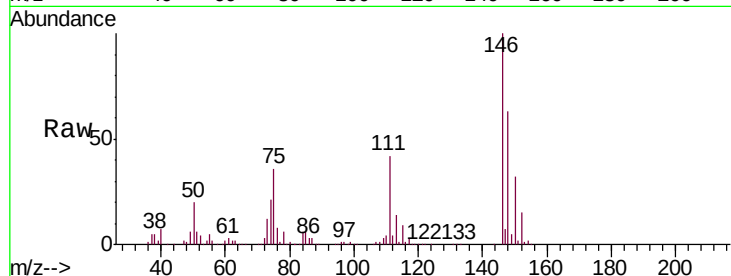




#65
 1,2-Dichlorobenzene
 Concen: 55.172 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

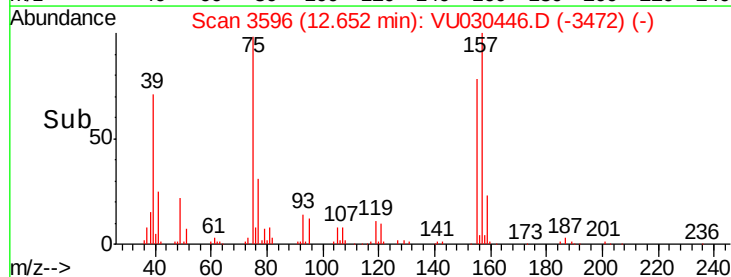
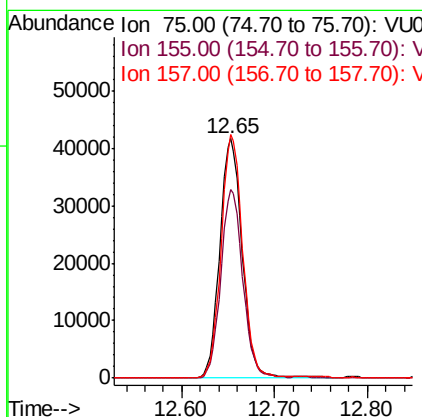
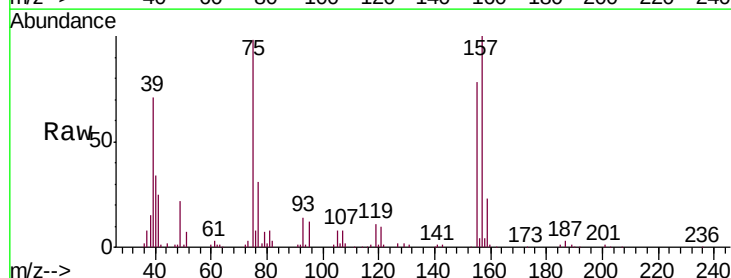
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

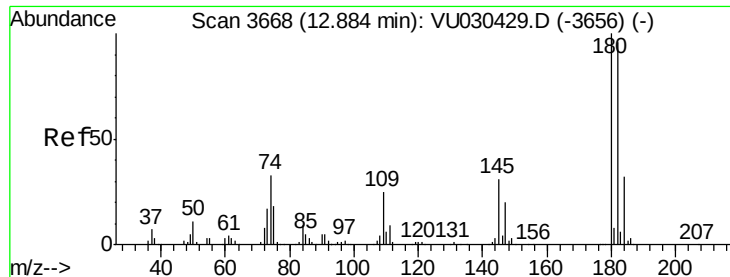
Tgt Ion: 146 Resp: 337269
 Ion Ratio Lower Upper
 146 100
 111 42.4 34.9 52.3
 148 63.0 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.384 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion: 75 Resp: 69942
 Ion Ratio Lower Upper
 75 100
 155 78.9 61.8 92.6
 157 101.7 80.2 120.4

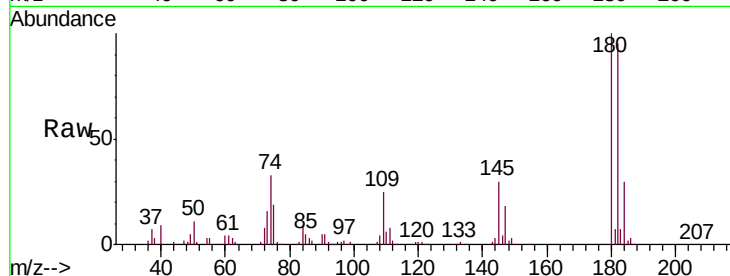




#67
 1,3,5-Trichlorobenzene
 Concen: 50.608 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.9	113.9
184	30.6	24.1	36.1
145	30.1	23.8	35.8



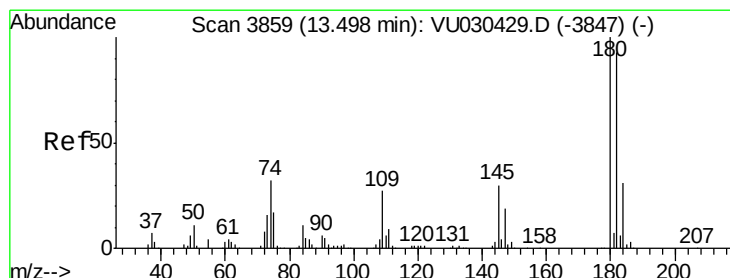
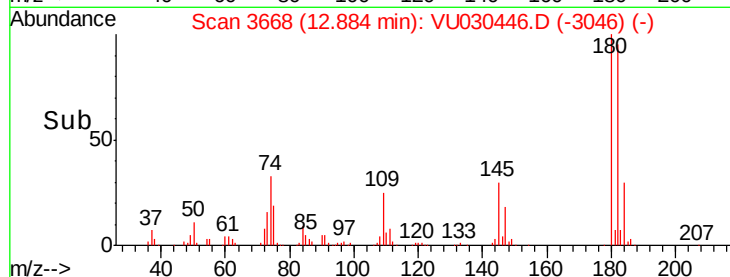
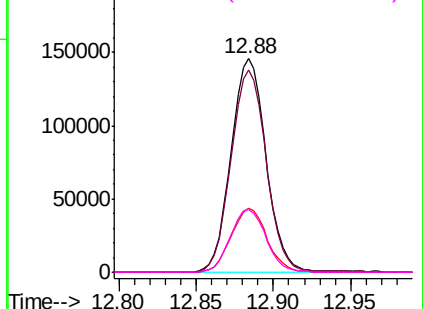
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

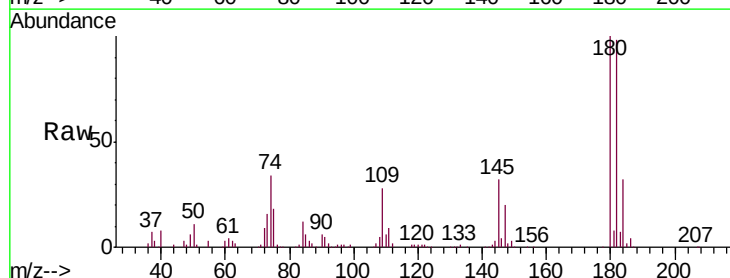
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 61.463 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030446.D
 Acq: 26 Mar 2019 15:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
145	30.4	24.5	36.7

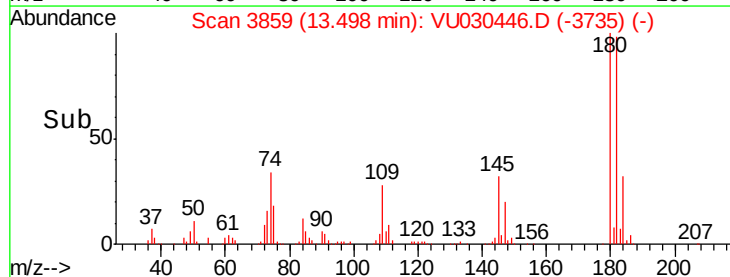
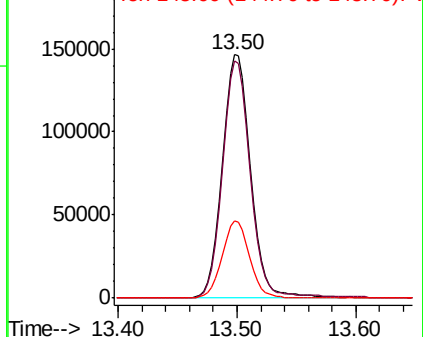


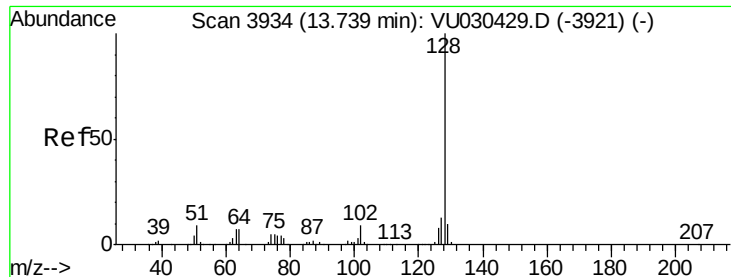
Abundance

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: 44.426 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

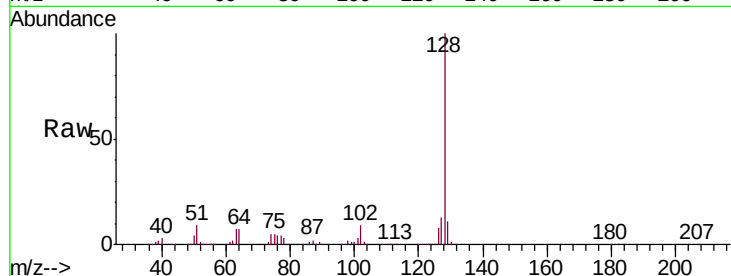
Tgt Ion:128 Resp: 621217

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

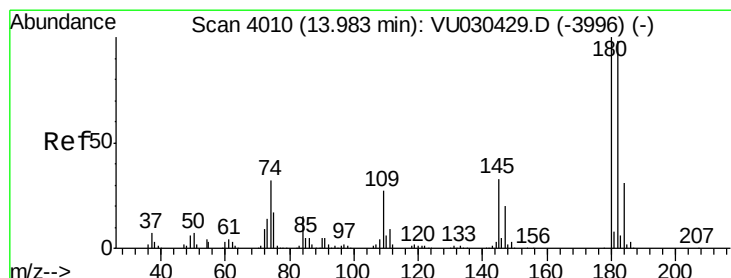
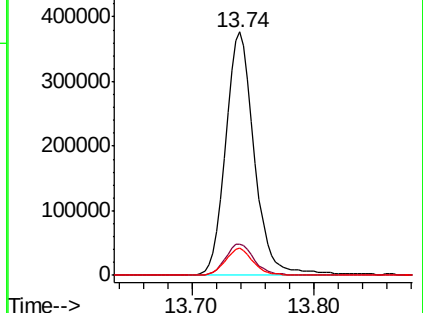
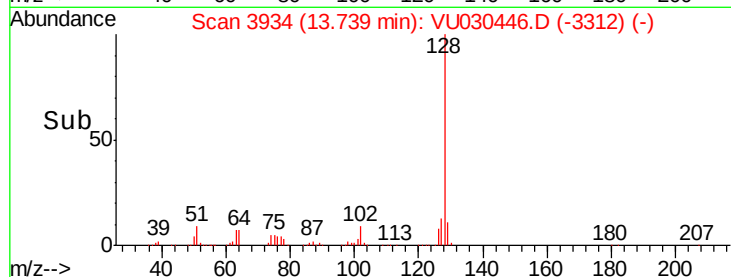
129 10.9 8.4 12.6



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: 54.641 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030446.D

Acq: 26 Mar 2019 15:52

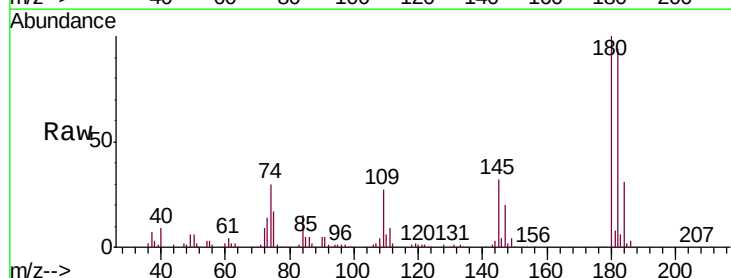
Tgt Ion:180 Resp: 226893

Ion Ratio Lower Upper

180 100

182 95.4 77.4 116.2

145 32.6 25.9 38.9



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

