

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033540.D
 Acq On : 01 Aug 2019 10:54
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:17 AM

Quant Time: Aug 02 02:11:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 02 01:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	299533	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	294013	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	140530	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	102834	47.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.44%
7) Chloroethane-d5	1.67	69	103200	55.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.46%
11) 1,1-Dichloroethene-d2	2.26	63	146564	37.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.16%
21) 2-Butanone-d5	4.16	46	176230	122.18	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.18%
24) Chloroform-d	4.62	84	193826	53.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.20%
26) 1,2-Dichloroethane-d4	5.29	65	127097	54.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.96%
32) Benzene-d6	5.32	84	391258	53.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.36%
36) 1,2-Dichloropropane-d6	6.31	67	126942	55.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.12%
41) Toluene-d8	7.55	98	349490	51.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.34%
43) trans-1,3-Dichloropropene-	7.83	79	58675	51.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.54%
47) 2-Hexanone-d5	8.30	63	128413	118.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	118.38%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	193982	55.06	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.12%
64) 1,2-Dichlorobenzene-d4	11.85	152	143677	55.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	111.66%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6212	2.199 ug/L	93
3) Chloromethane	1.32	50	7445	2.617 ug/L	99
5) Vinyl chloride	1.39	62	8092	2.653 ug/L #	72
6) Bromomethane	1.62	94	4634	1.722 ug/L	89
8) Chloroethane	1.69	64	4876	2.631 ug/L	98
9) Trichlorofluoromethane	1.87	101	9708	2.433 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	5651	2.794 ug/L	90
12) 1,1-Dichloroethene	2.27	96	5727	2.952 ug/L #	1
13) Acetone	2.33	43	8551	5.794 ug/L	98
14) Carbon disulfide	2.46	76	14615	2.402 ug/L	97
15) Methyl Acetate	2.61	43	5547	2.361 ug/L	99
16) Methylene chloride	2.68	84	6004	2.710 ug/L	87
17) trans-1,2-Dichloroethene	2.96	96	4854	2.389 ug/L	95
18) Methyl tert-butyl Ether	2.98	73	14185	2.289 ug/L	97
19) 1,1-Dichloroethane	3.42	63	9842	2.580 ug/L #	96
20) cis-1,2-Dichloroethene	4.20	96	5318	2.331 ug/L	97
22) 2-Butanone	4.27	43	8846m	5.021 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	3006	2.526	ug/L	87
25) Chloroform	4.65	83	14018	3.492	ug/L	99
27) 1,2-Dichloroethane	5.39	62	7544	2.441	ug/L	97
29) Cyclohexane	4.97	56	6746	2.104	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	8625	2.550	ug/L	98
31) Carbon tetrachloride	5.12	117	7167	2.433	ug/L	100
33) Benzene	5.37	78	20227	2.385	ug/L	100
34) Trichloroethene	6.17	95	5872	2.625	ug/L	92
35) Methylcyclohexane	6.40	83	7549	2.162	ug/L	94
37) 1,2-Dichloropropane	6.41	63	5966	2.628	ug/L #	95
38) Bromodichloromethane	6.74	83	7228	2.463	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	8209	2.317	ug/L	95
40) 4-Methyl-2-pentanone	7.45	43	14672	4.681	ug/L	97
42) Toluene	7.62	91	23073	2.530	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	7624	2.381	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	5146	2.388	ug/L	97
46) Tetrachloroethene	8.21	164	4441	2.431	ug/L	96
48) 2-Hexanone	8.35	43	14224	5.614	ug/L	96
49) Dibromochloromethane	8.46	129	6087	2.482	ug/L	90
50) 1,2-Dibromoethane	8.57	107	5985	2.507	ug/L	99
51) Chlorobenzene	9.10	112	14732	2.467	ug/L	98
52) Ethylbenzene	9.23	91	21959	2.236	ug/L	100
53) m,p-Xylene	9.36	106	8309	2.204	ug/L	91
54) o-xylene	9.76	106	7493	2.049	ug/L	98
55) Styrene	9.78	104	11973	1.928	ug/L	97
56) Isopropylbenzene	10.15	105	18744	1.961	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	10528	2.708	ug/L #	97
59) 1,2,3-Trichloropropane	10.48	75	7881	2.630	ug/L	98
61) Bromoform	9.95	173	4496	2.649	ug/L #	91
62) 1,3-Dichlorobenzene	11.40	146	10447	2.421	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	11764	2.624	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	11673	2.675	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.64	75	1904	2.362	ug/L	87
67) 1,3,5-Trichlorobenzene	12.88	180	7431	2.134	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	5263	1.769	ug/L #	89
69) Naphthalene	13.74	128	14040m	1.645	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	6377	2.038	ug/L #	91

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

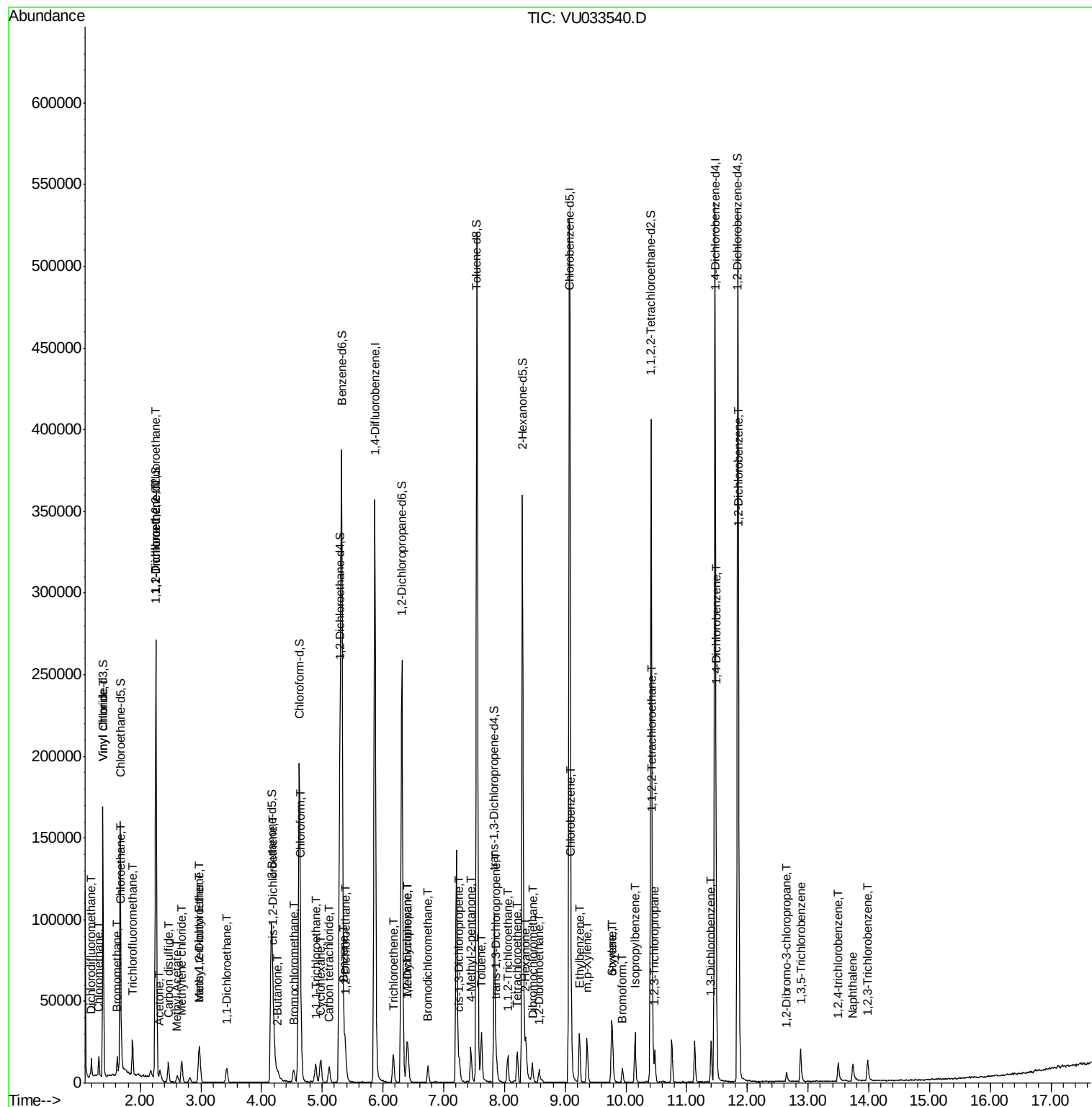
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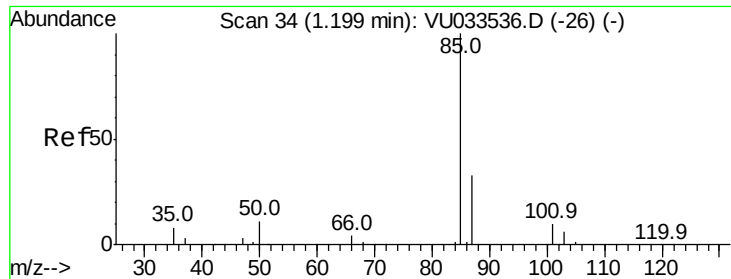
Instrument :
MSVOA_U
ClientSampleID :
MDL03

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#2

Dichlorodifluoromethane

Concen: 2.199 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 85 Resp: 6212

Ion Ratio Lower Upper

85 100

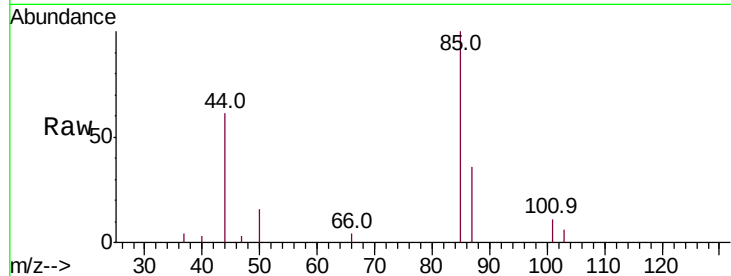
87 35.8 25.4 38.2

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU033536.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033536.D (-26) (-)

1.20

6000

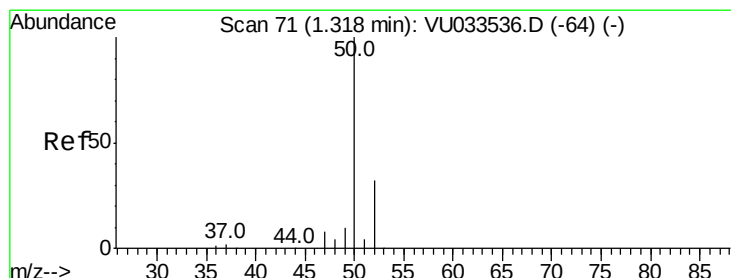
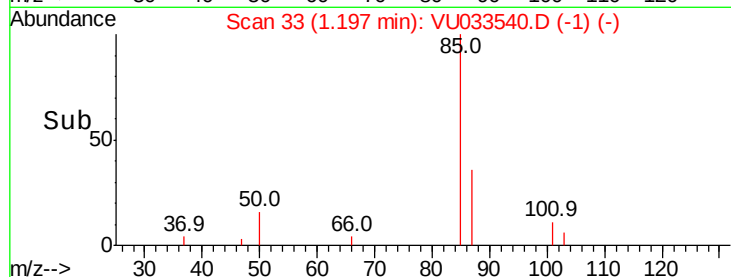
4000

2000

0

1.16 1.18 1.20 1.22 1.24

Time-->



#3

Chloromethane

Concen: 2.617 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033540.D

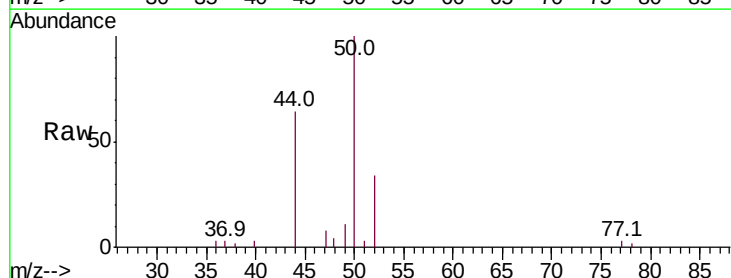
Acq: 01 Aug 2019 10:54

Tgt Ion: 50 Resp: 7445

Ion Ratio Lower Upper

50 100

52 33.8 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033536.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033536.D (-64) (-)

1.32

8000

6000

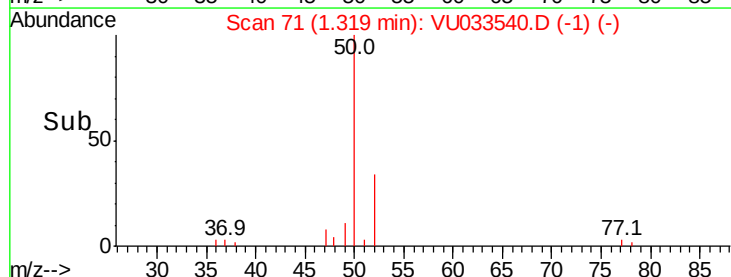
4000

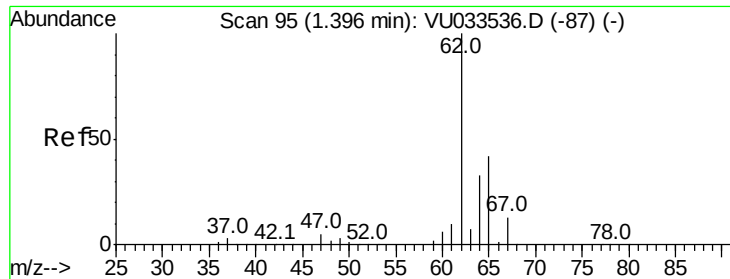
2000

0

1.28 1.30 1.32 1.34 1.36

Time-->





#5

Vinyl chloride

Concen: 2.653 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 8092

Ion Ratio Lower Upper

62 100

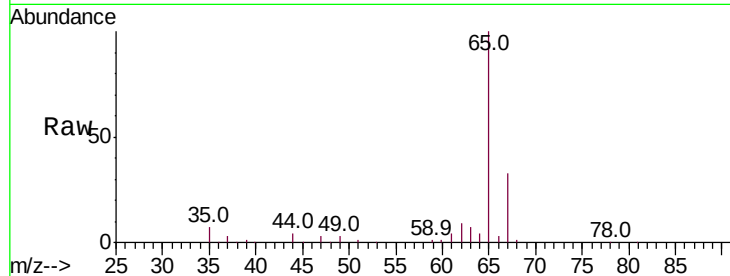
64 49.3 23.4 43.4#

Manual Integrations

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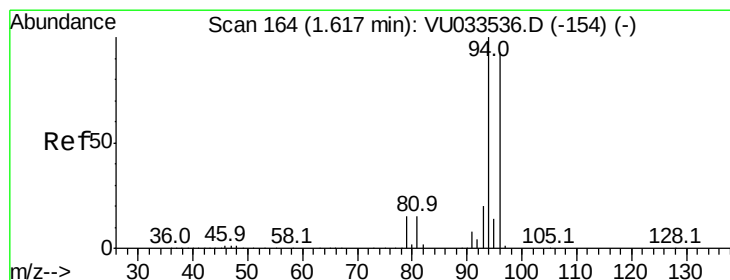
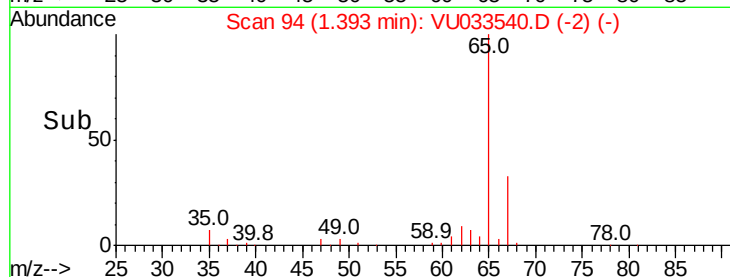
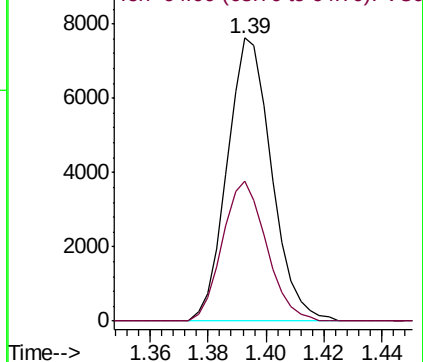
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Abundance Ion 62.00 (61.70 to 62.70): VU033536.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033536.D (-87) (-)



#6

Bromomethane

Concen: 1.722 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU033540.D

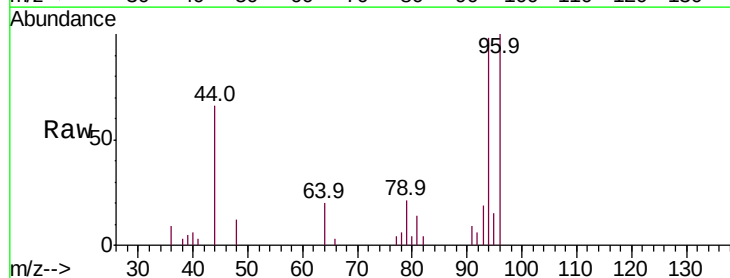
Acq: 01 Aug 2019 10:54

Tgt Ion: 94 Resp: 4634

Ion Ratio Lower Upper

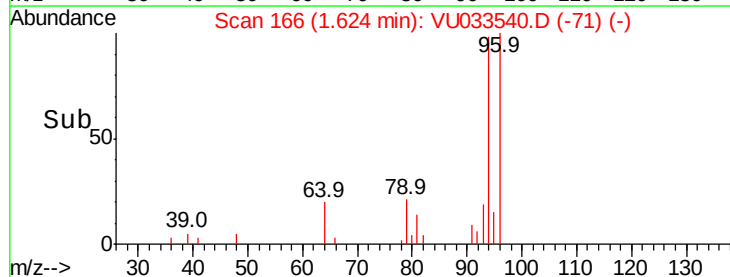
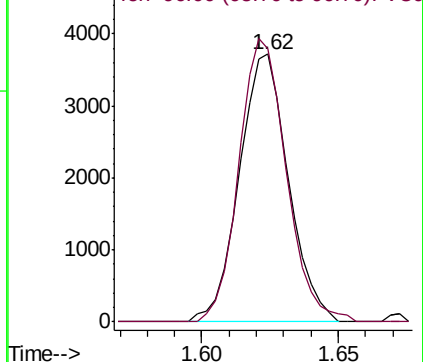
94 100

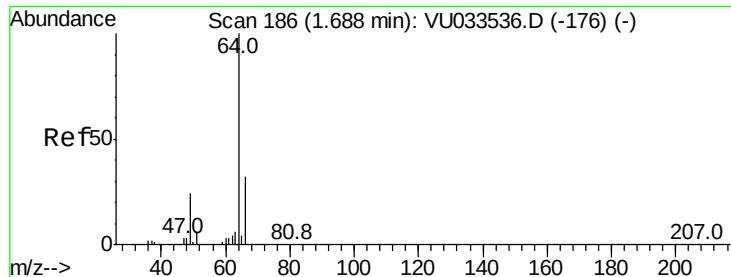
96 102.2 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033536.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033536.D (-154) (-)





#8

Chloroethane

Concen: 2.631 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 64 Resp: 4876

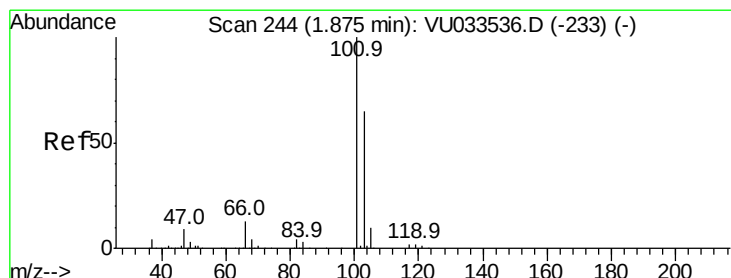
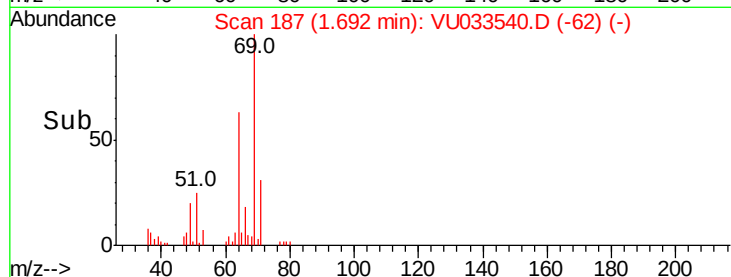
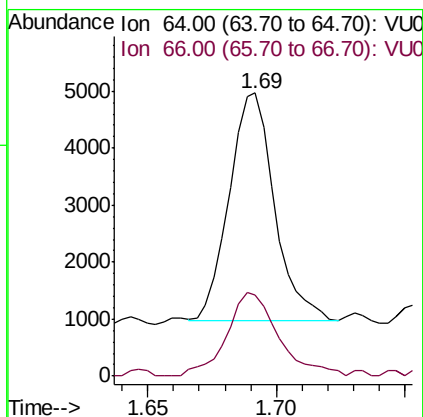
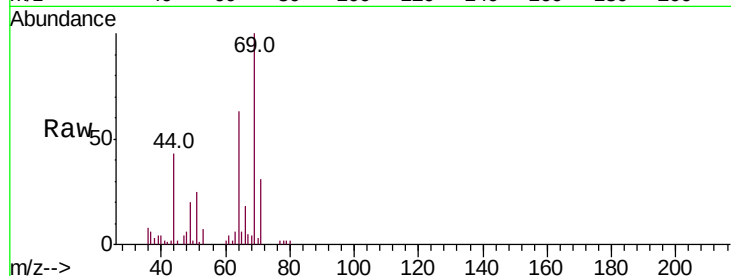
Ion Ratio Lower Upper

64 100

66 28.9 21.1 39.3

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 2.433 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033540.D

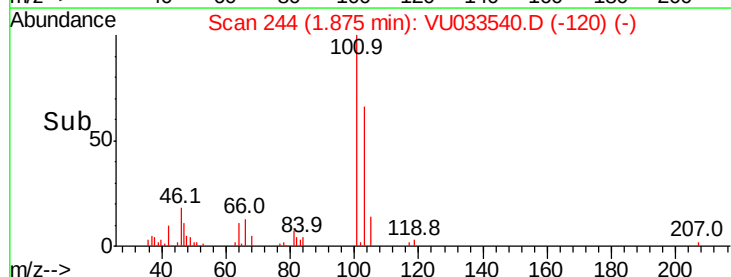
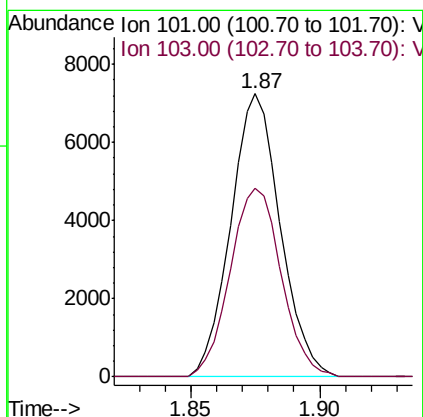
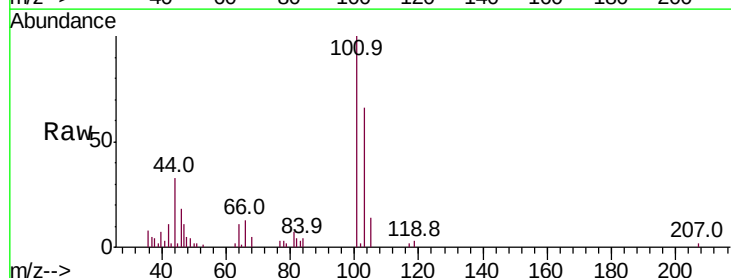
Acq: 01 Aug 2019 10:54

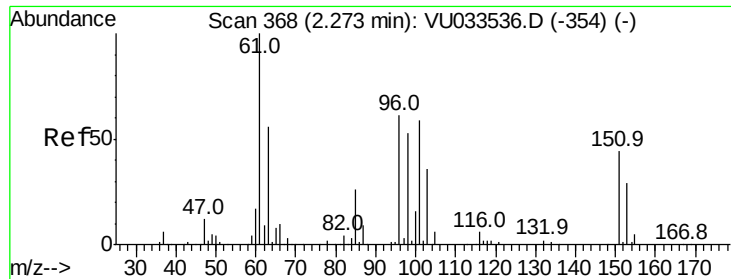
Tgt Ion: 101 Resp: 9708

Ion Ratio Lower Upper

101 100

103 68.7 51.6 77.4





#10

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

Concen: 2.794 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

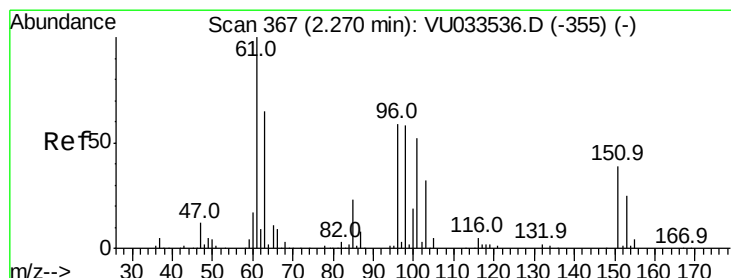
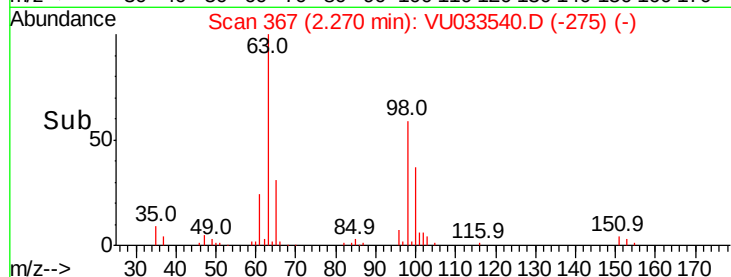
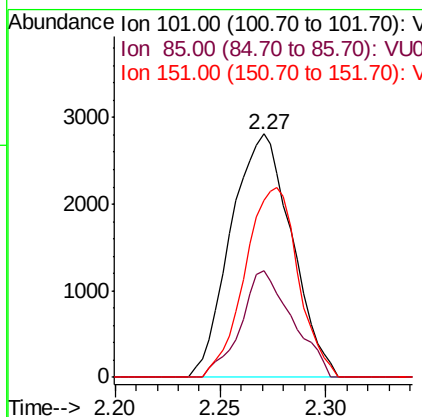
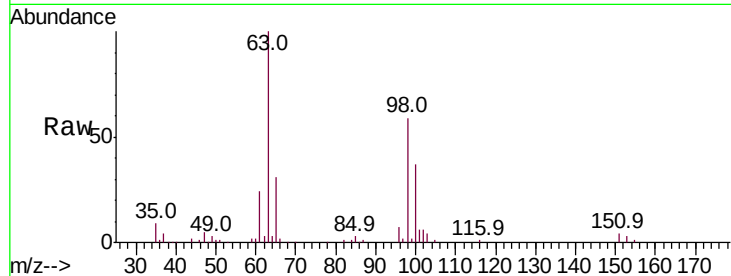
ClientSampled :

MDL03

Tot Ion:	101	Resp:	5651
Ion Ratio	Lower	Upper	
101	100		
85	37.2	35.8	53.8
151	68.0	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 2.952 ug/L

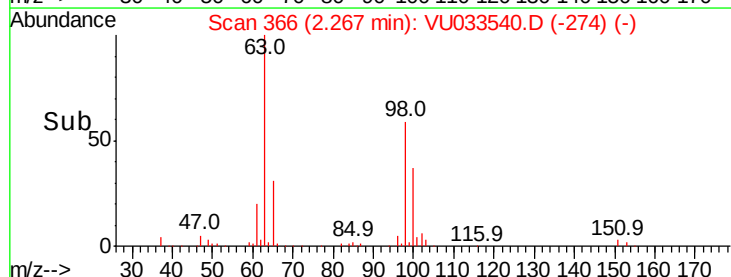
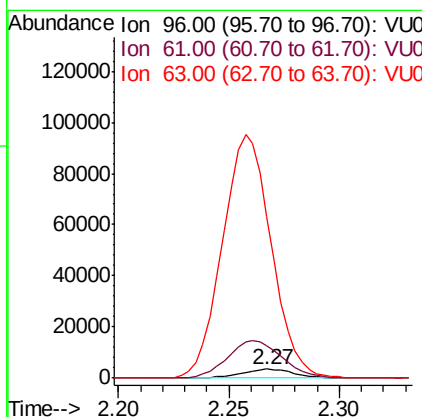
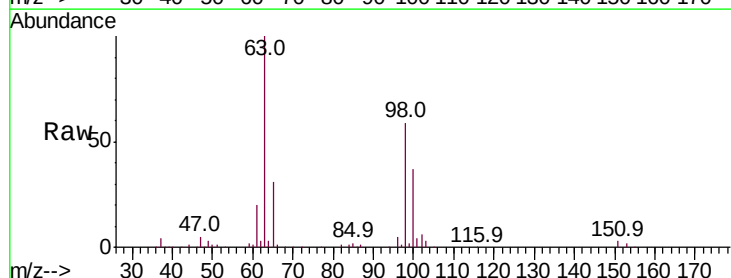
RT: 2.27 min Scan# 366

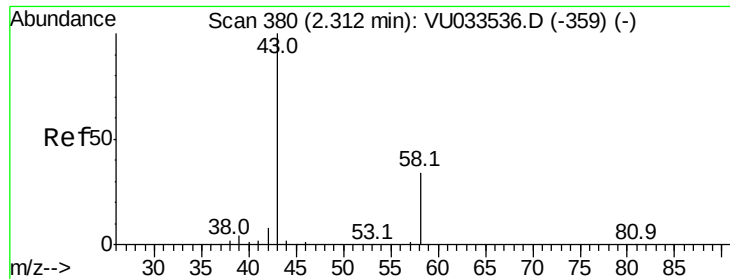
Delta R.T. -0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Tgt Ion:	96	Resp:	5727
Ion Ratio	Lower	Upper	
96	100		
61	364.8	119.3	221.5#
63	1835.0	86.6	160.8#





#13

Acetone

Concen: 5.794 ug/L

RT: 2.33 min Scan# 386

Delta R.T. 0.02 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 8551

Ion Ratio Lower Upper

43 100

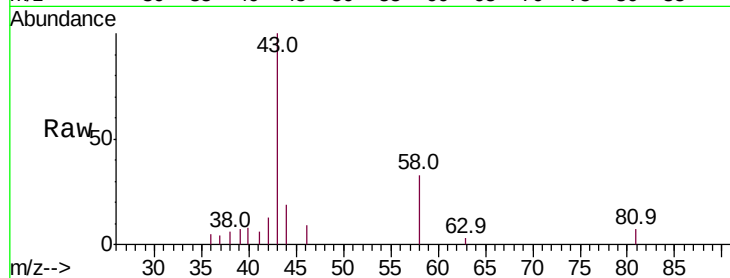
58 31.9 0.0 66.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU033536.D (-359) (-)

Ion 58.00 (57.70 to 58.70): VU033536.D (-359) (-)

2.33

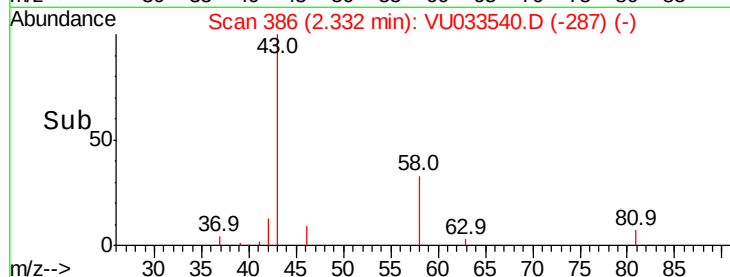
3000

2000

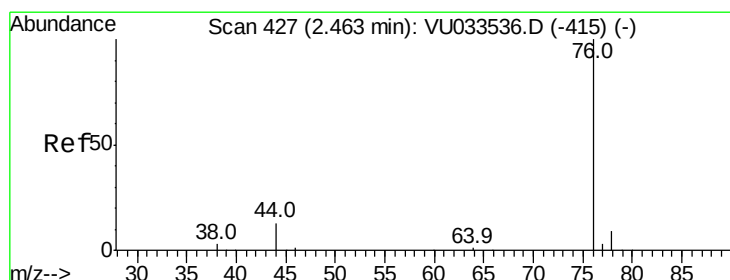
1000

0

Time-->



Time-->



#14

Carbon disulfide

Concen: 2.402 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033540.D

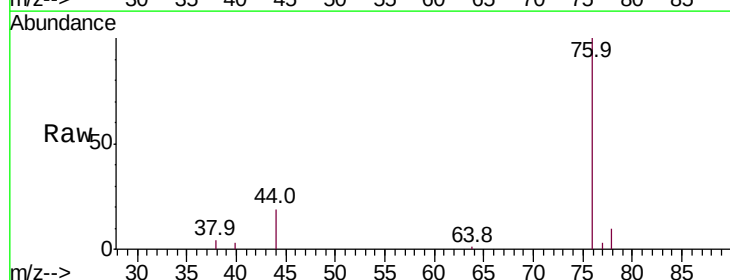
Acq: 01 Aug 2019 10:54

Tgt Ion: 76 Resp: 14615

Ion Ratio Lower Upper

76 100

78 10.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033536.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU033536.D (-415) (-)

2.46

10000

8000

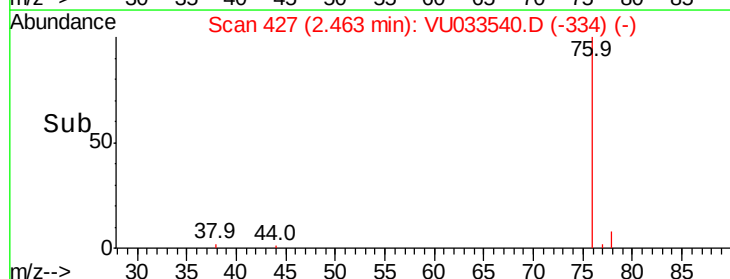
6000

4000

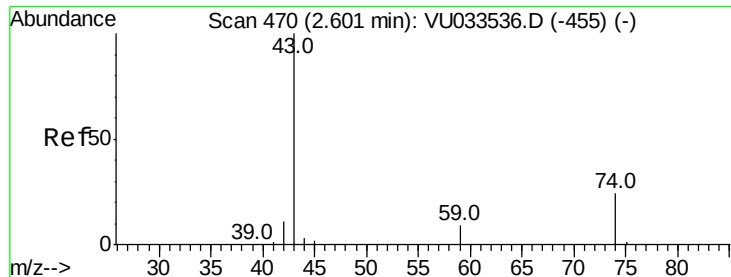
2000

0

Time-->



Time-->



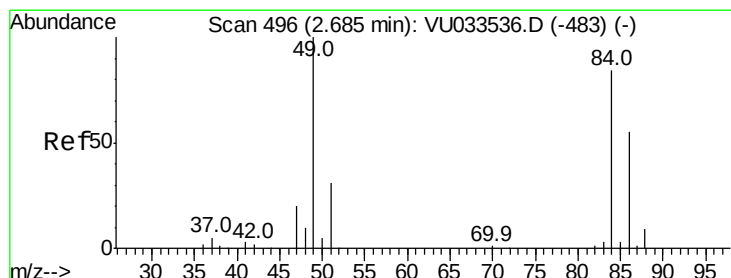
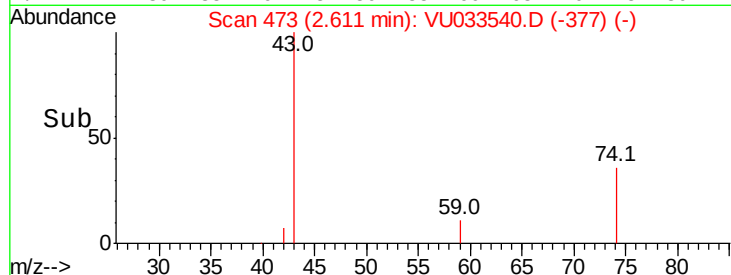
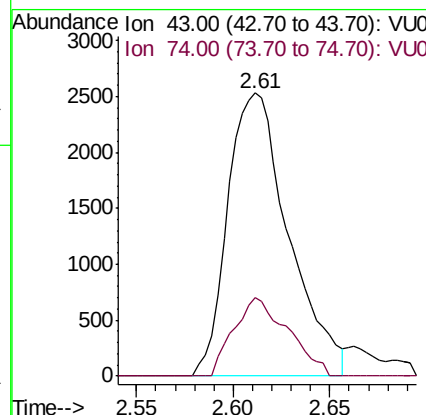
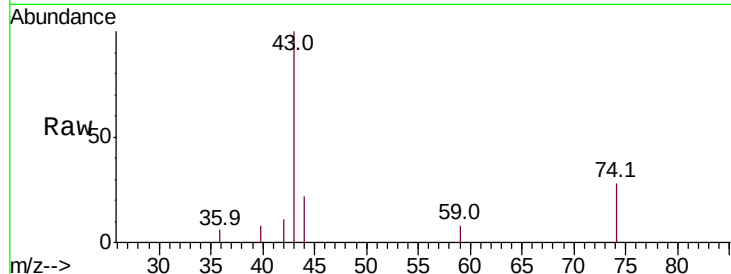
#15
Methvl Acetate
Concen: 2.361 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 5547
Ion Ratio Lower Upper
43 100
74 24.7 20.1 30.1

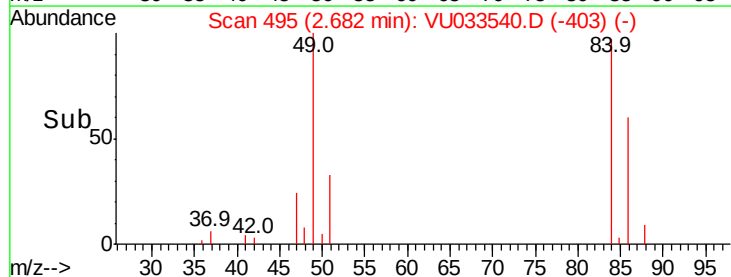
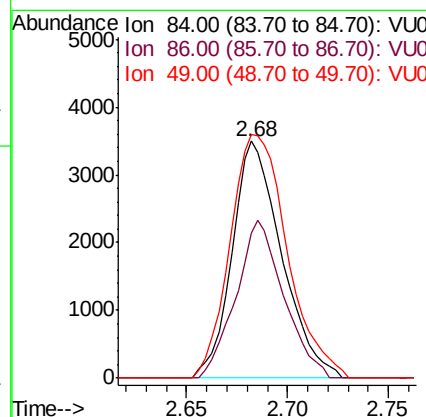
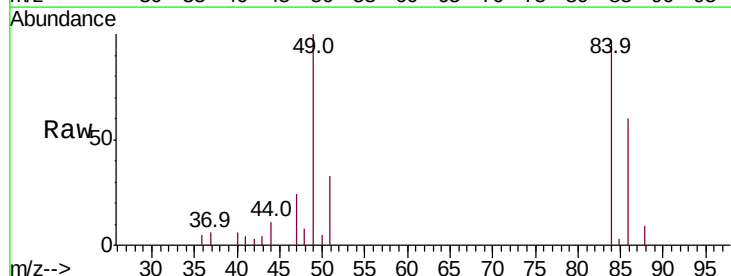
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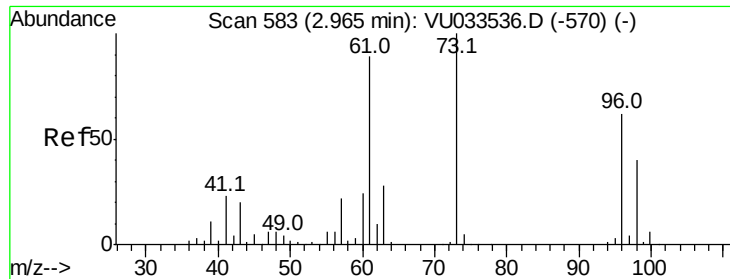
MMDadoda
8/2/2019 8:29:17 AM



#16
Methylene chloride
Concen: 2.710 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Tgt Ion: 84 Resp: 6004
Ion Ratio Lower Upper
84 100
86 61.1 45.7 84.9
49 102.7 85.0 158.0





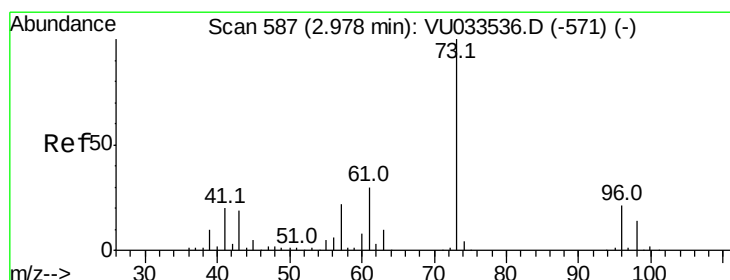
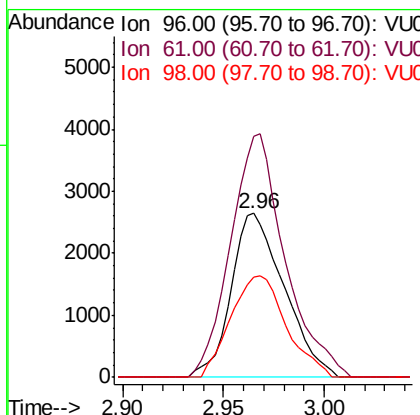
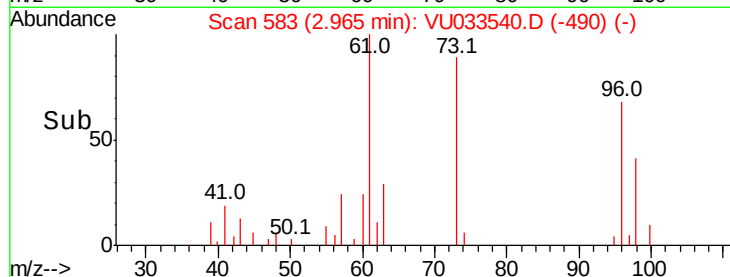
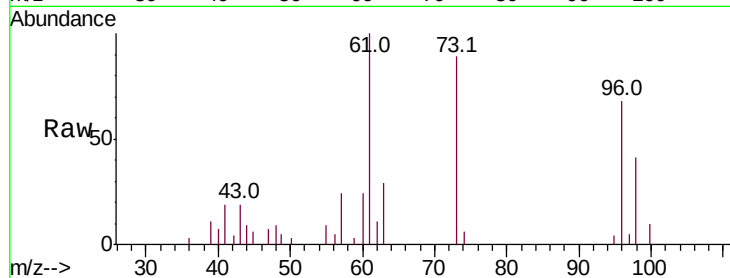
#17
trans-1,2-Dichloroethene
Concen: 2.389 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.8	98.3	182.5
98	60.8	44.3	82.3

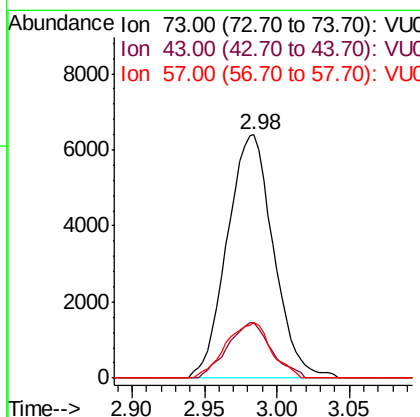
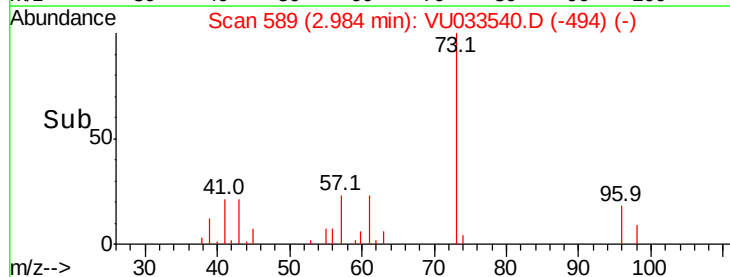
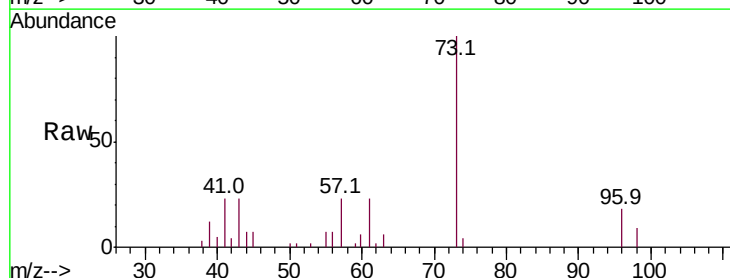
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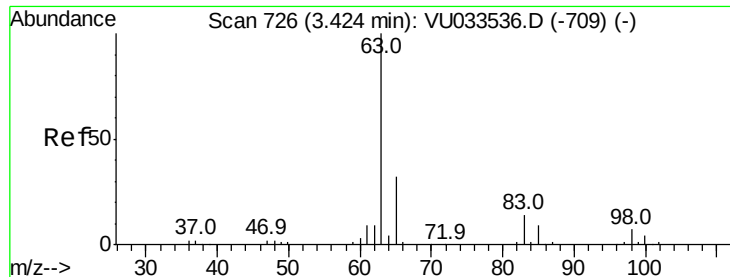
MMDadoda
8/2/2019 8:29:17 AM



#18
Methyl tert-butyl Ether
Concen: 2.289 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.5	15.4	23.2
57	22.4	17.4	26.2





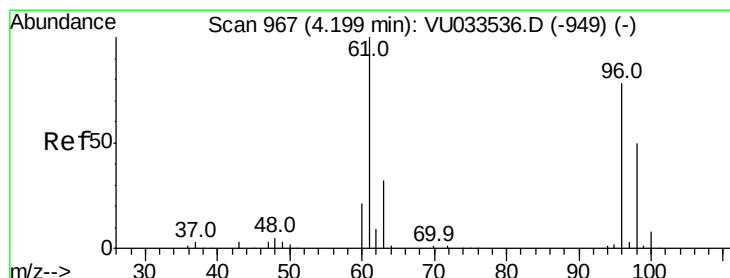
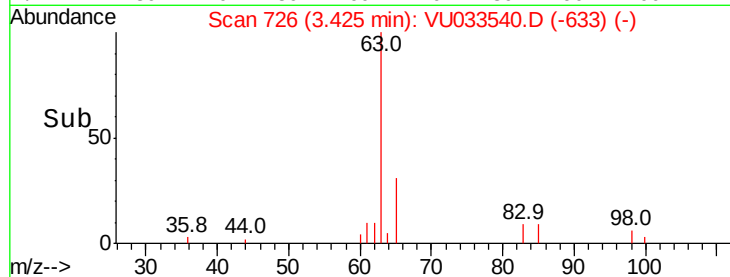
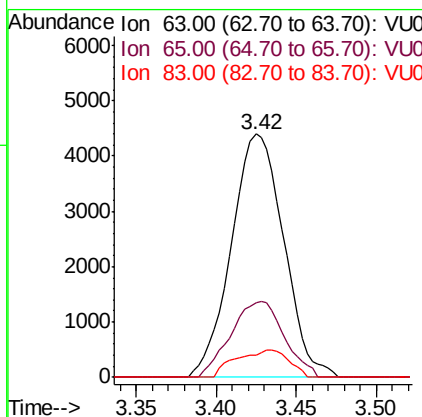
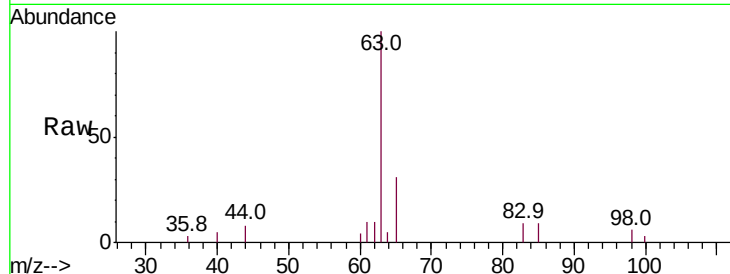
#19
 1,1-Dichloroethane
 Concen: 2.580 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	63	Resp:	9842
Ion	Ratio	Lower	Upper
63	100		
65	30.5	22.0	40.8
83	9.3	9.5	17.7#

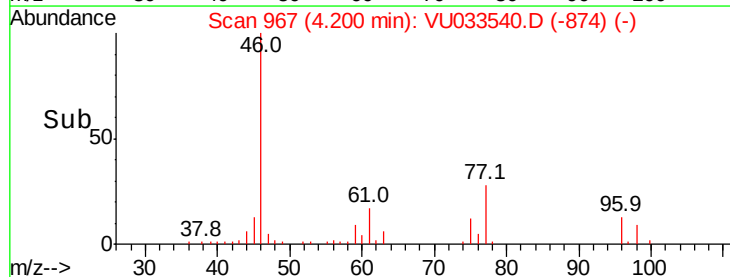
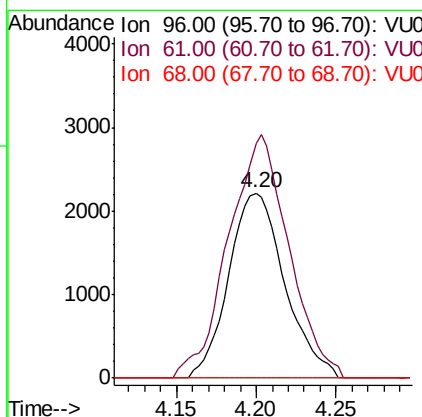
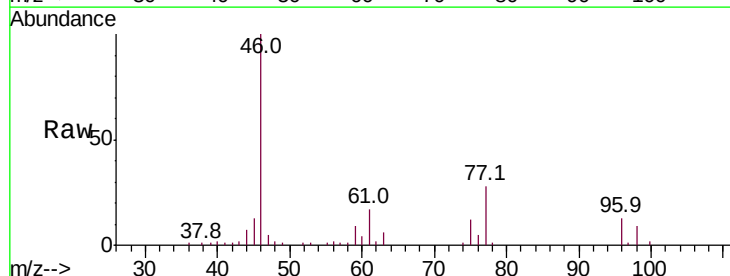
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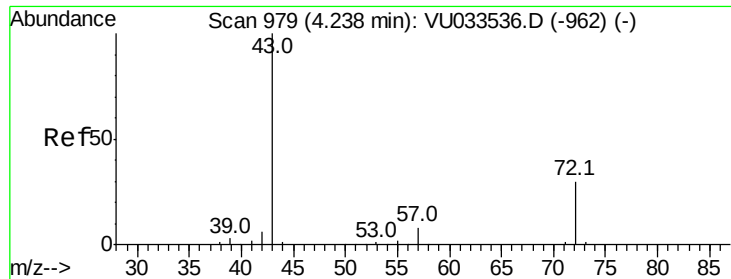
MMDadoda
 8/2/2019 8:29:17 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.331 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Tgt Ion:	96	Resp:	5318
Ion	Ratio	Lower	Upper
96	100		
61	127.1	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.021 ug/L m

RT: 4.27 min Scan# 989

Delta R.T. 0.03 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 8846

Ion Ratio Lower Upper

43 100

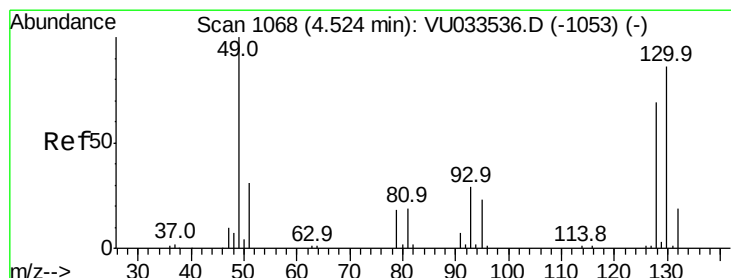
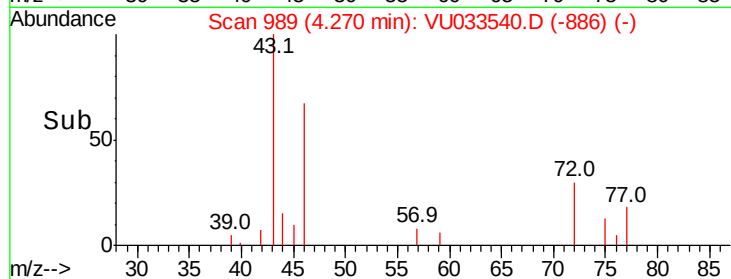
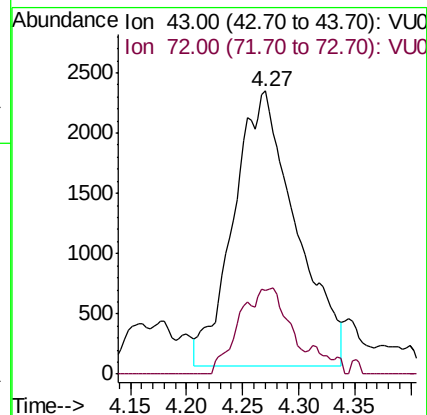
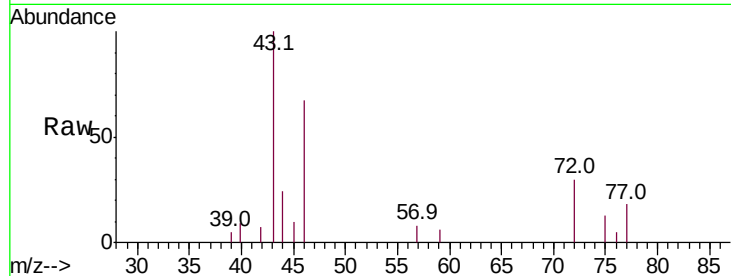
72 9.5 14.2 42.6#

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#23

Bromochloromethane

Concen: 2.526 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Tgt Ion: 128 Resp: 3006

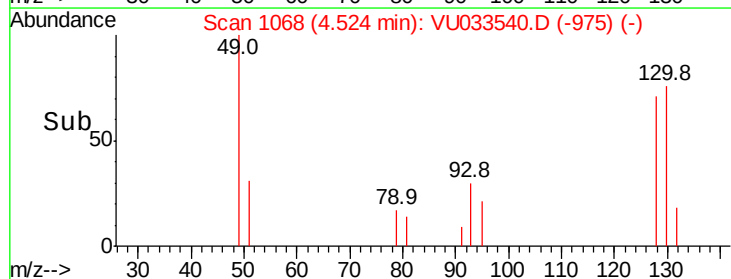
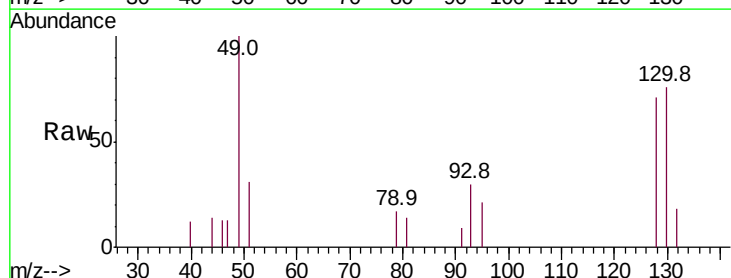
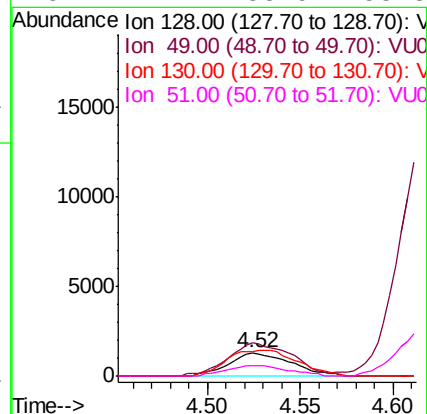
Ion Ratio Lower Upper

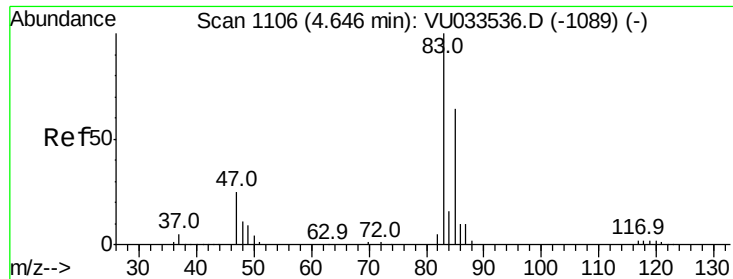
128 100

49 141.6 108.4 201.2

130 107.7 89.7 166.5

51 44.1 38.9 58.3





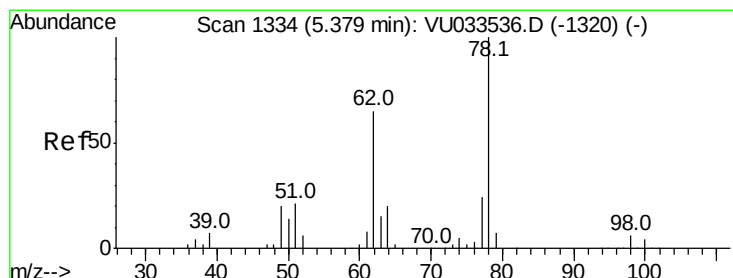
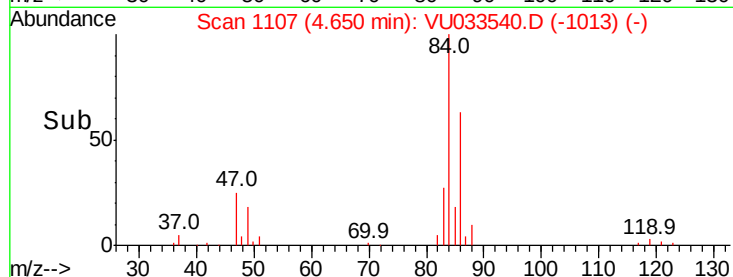
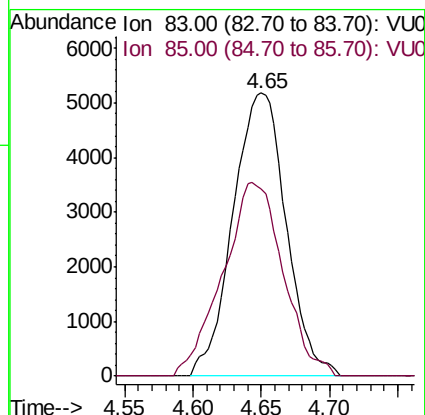
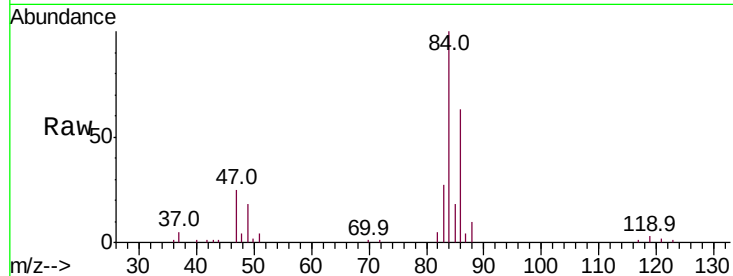
#25
Chloroform
Concen: 3.492 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 83 Resp: 14018
Ion Ratio Lower Upper
83 100
85 66.3 45.6 84.8

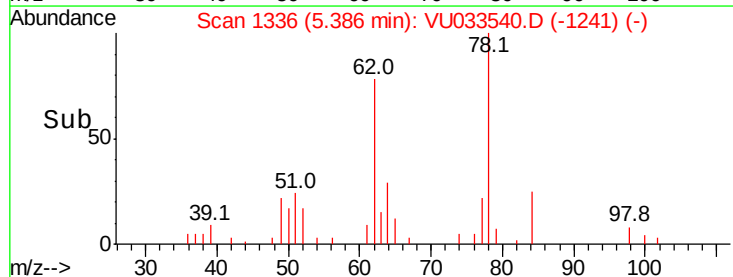
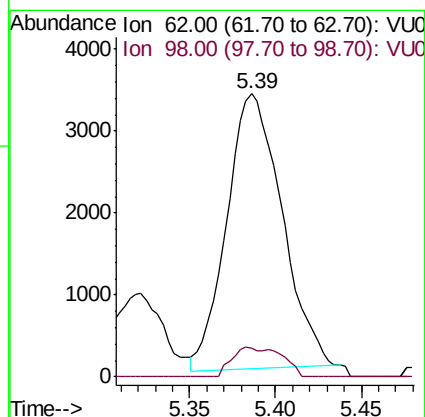
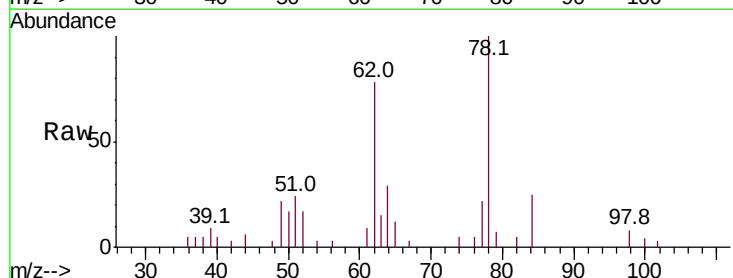
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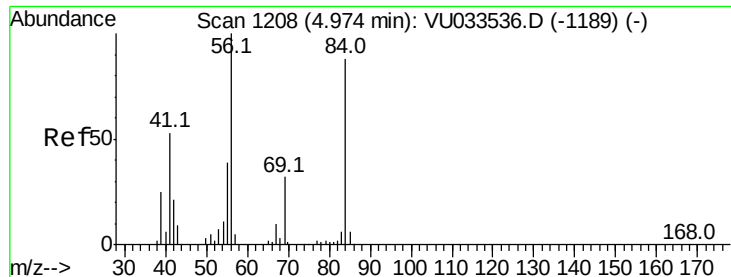
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.441 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Tgt Ion: 62 Resp: 7544
Ion Ratio Lower Upper
62 100
98 10.2 7.2 10.8





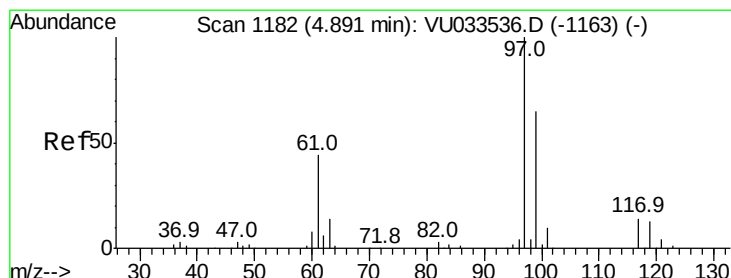
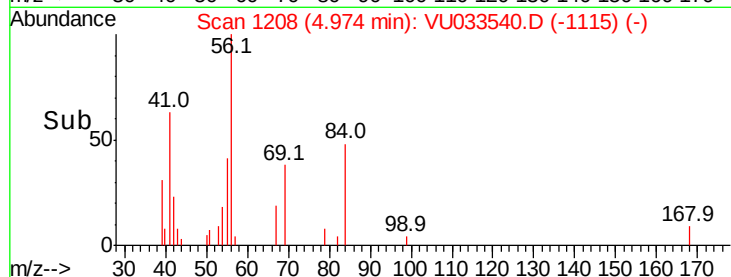
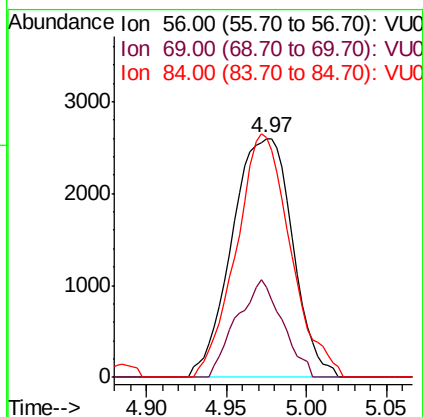
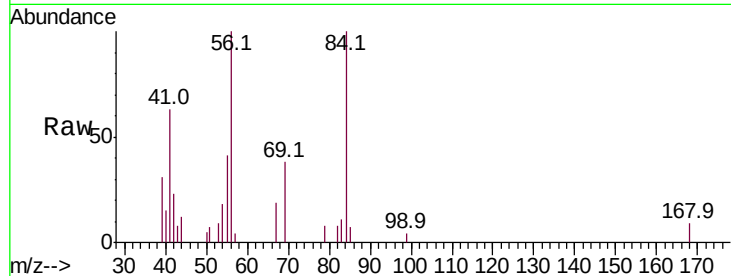
#29
Cyclohexane
Concen: 2.104 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.8	25.0	37.6
84	91.3	71.6	107.4

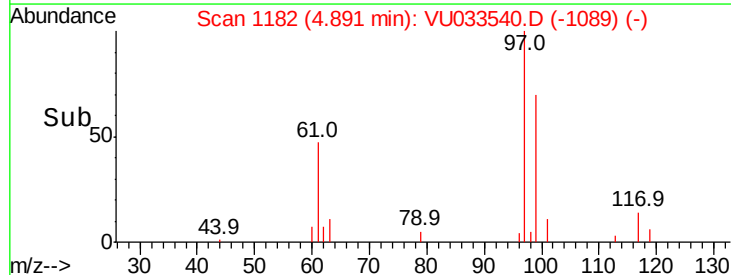
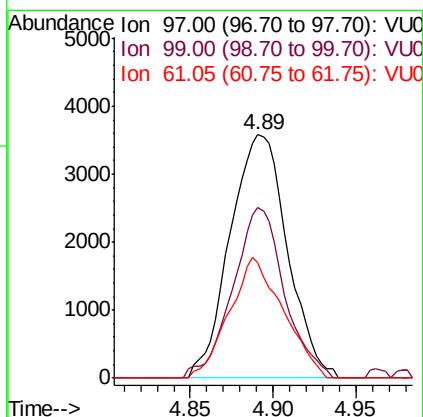
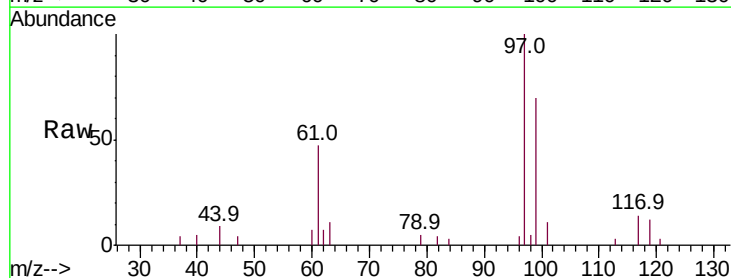
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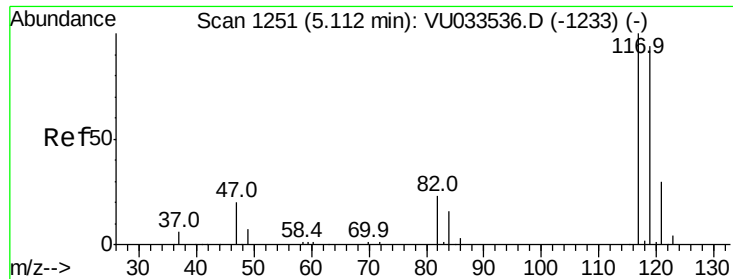
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#30
1,1,1-Trichloroethane
Concen: 2.550 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.1	76.7
61	46.5	35.5	53.3





#31

Carbon tetrachloride

Concen: 2.433 ug/L

RT: 5.12 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion:117 Resp: 7167

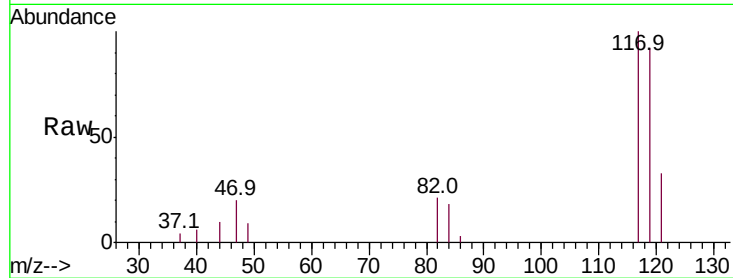
Ion Ratio Lower Upper

117 100

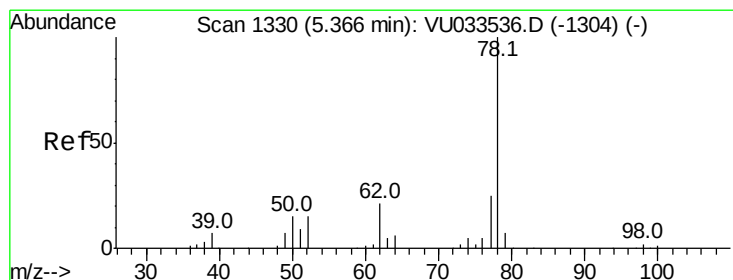
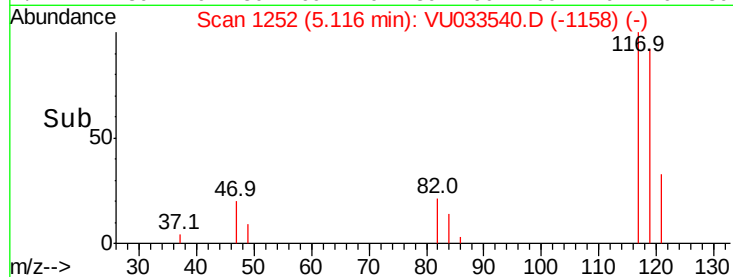
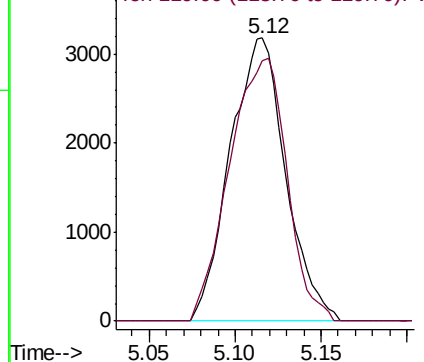
119 95.9 77.0 115.4

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.385 ug/L

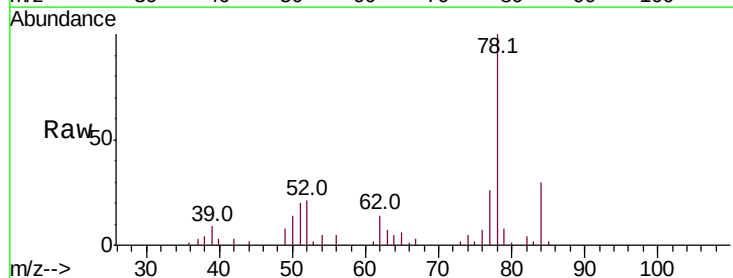
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

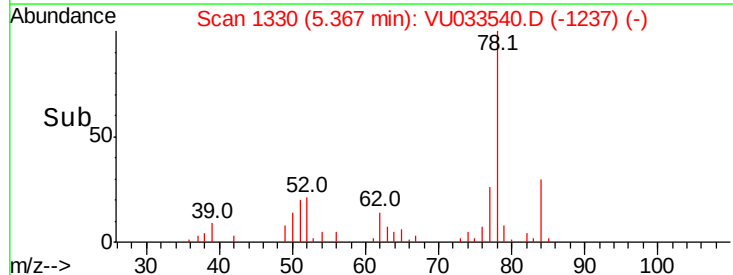
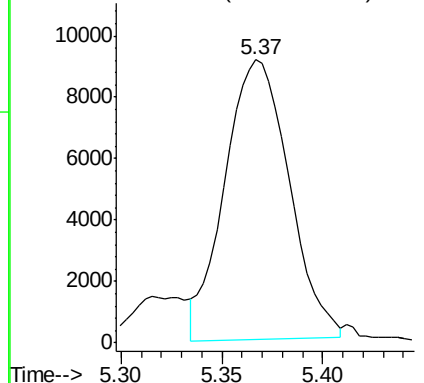
Lab File: VU033540.D

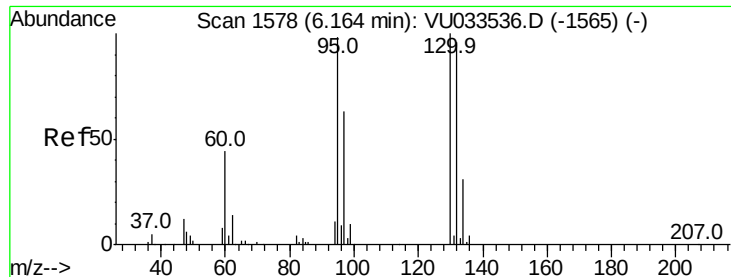
Acq: 01 Aug 2019 10:54

Tgt Ion: 78 Resp: 20227



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.625 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 95 Resp: 5872

Ion Ratio Lower Upper

95 100

97 62.4 44.7 83.1

132 111.7 66.8 124.0

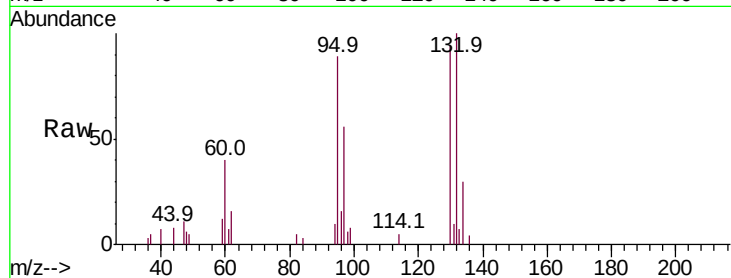
130 104.7 71.6 133.0

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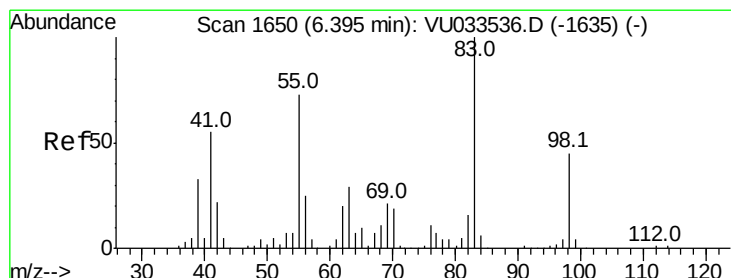
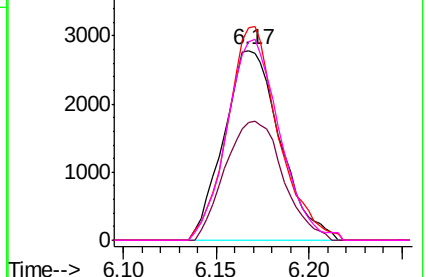
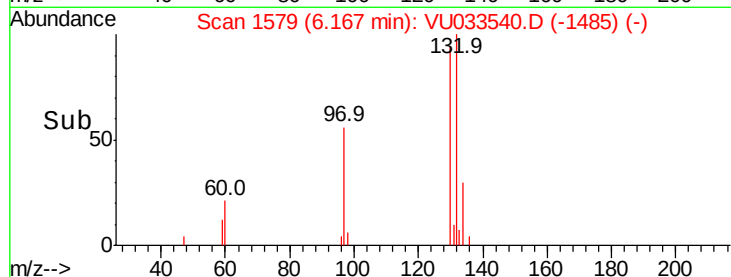


Abundance Ion 95.00 (94.70 to 95.70): VU033536.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU033536.D (-1565) (-)

Ion 132.00 (131.70 to 132.70): VU033536.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU033536.D (-1565) (-)



#35

Methylcyclohexane

Concen: 2.162 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

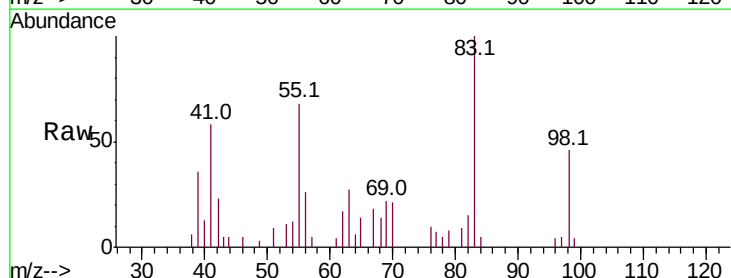
Tgt Ion: 83 Resp: 7549

Ion Ratio Lower Upper

83 100

55 68.8 60.2 90.4

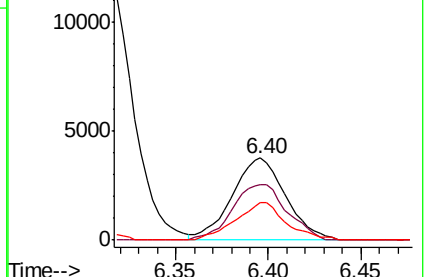
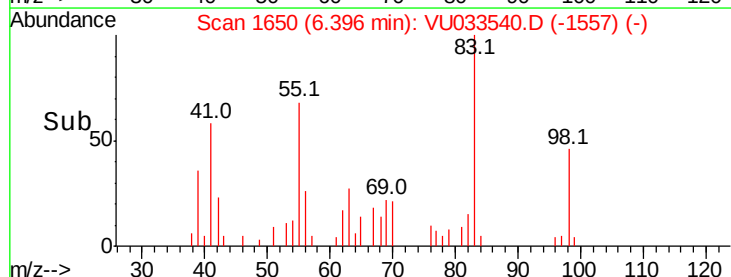
98 43.2 36.5 54.7

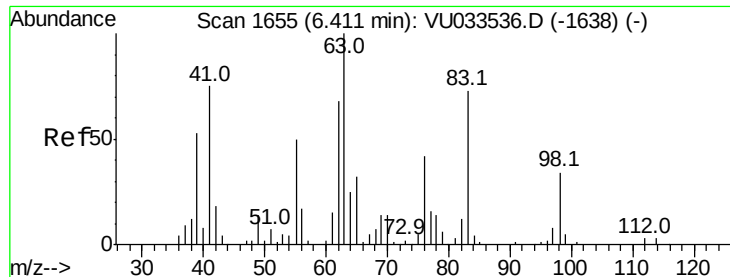


Abundance Ion 83.00 (82.70 to 83.70): VU033536.D (-1635) (-)

Ion 55.00 (54.70 to 55.70): VU033536.D (-1635) (-)

Ion 98.00 (97.70 to 98.70): VU033536.D (-1635) (-)





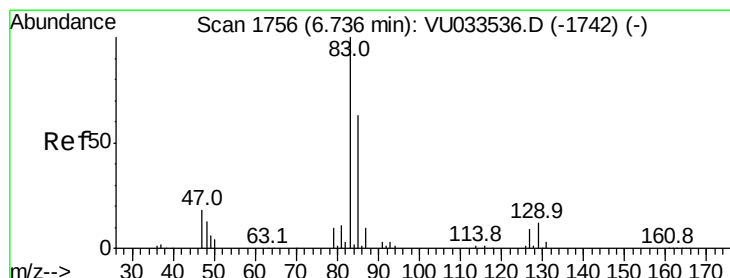
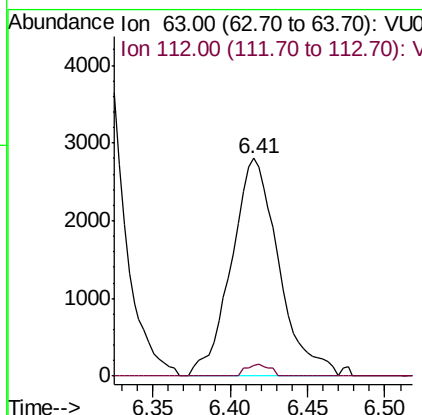
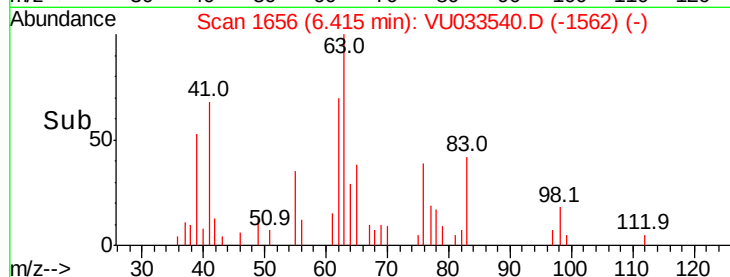
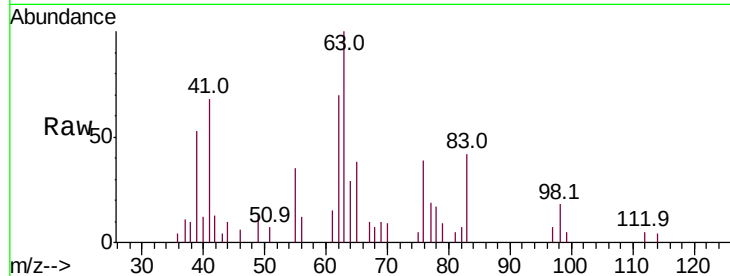
#37
 1,2-Dichloropropane
 Concen: 2.628 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 5966
 Ion Ratio Lower Upper
 63 100
 112 2.0 3.0 4.6#

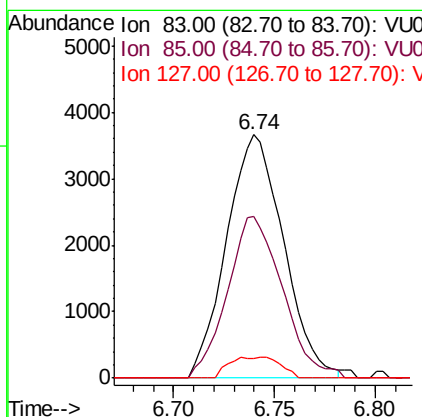
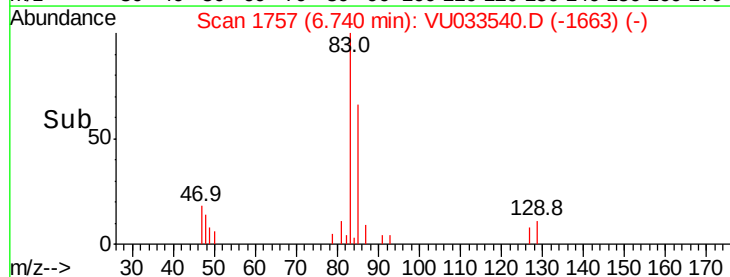
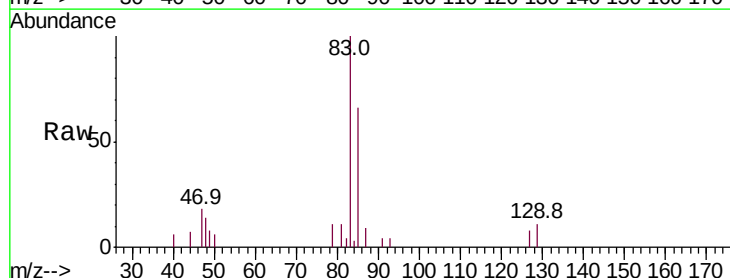
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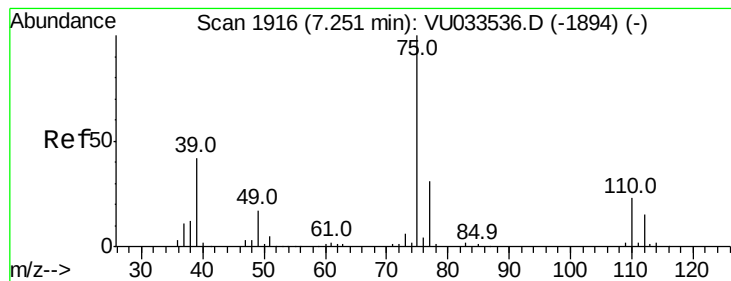
MMDadoda
 8/2/2019 8:29:17 AM



#38
 Bromodichloromethane
 Concen: 2.463 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Tgt Ion: 83 Resp: 7228
 Ion Ratio Lower Upper
 83 100
 85 66.5 45.1 83.9
 127 7.9 7.2 10.8





#39

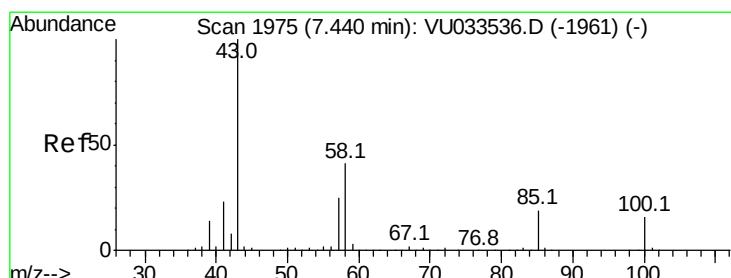
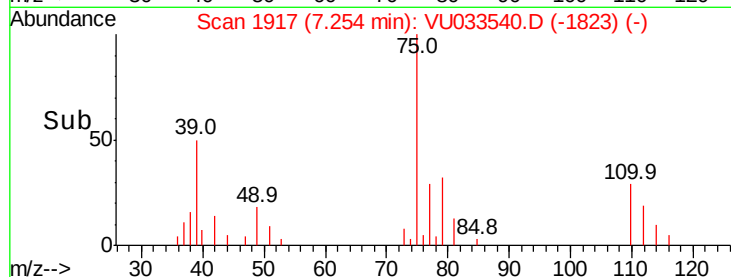
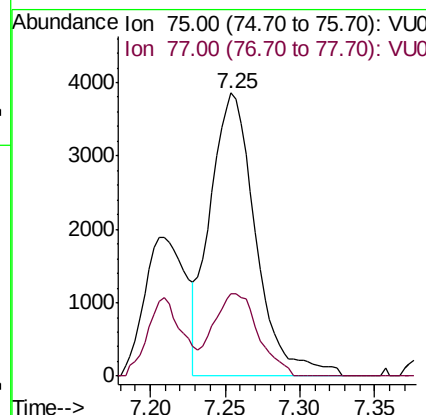
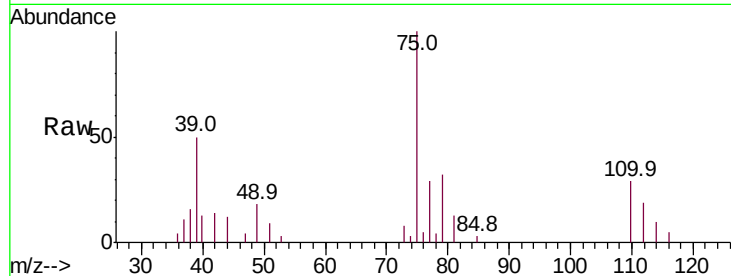
cis-1,3-Dichloropropene
Concen: 2.317 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 75 Resp: 8209
Ion Ratio Lower Upper
75 100
77 29.3 22.3 41.5

Manual Integrations
APPROVED

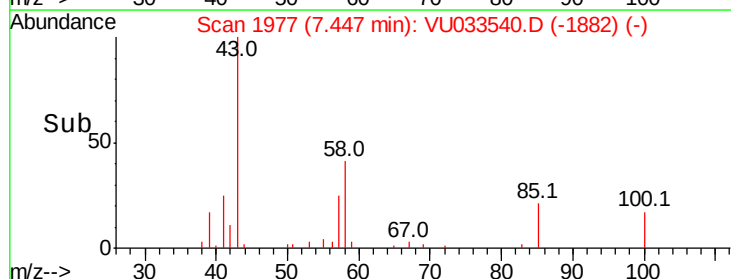
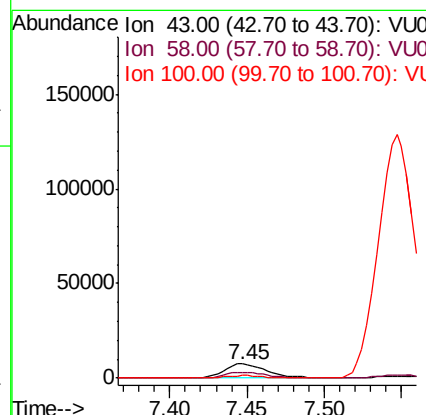
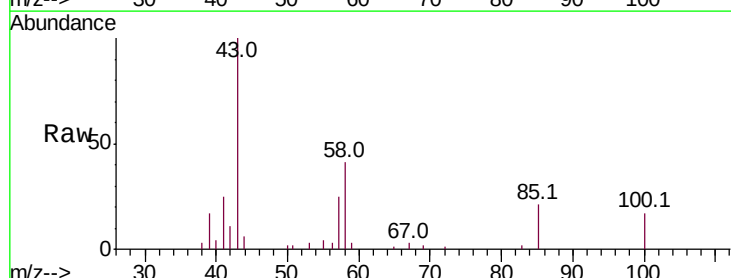
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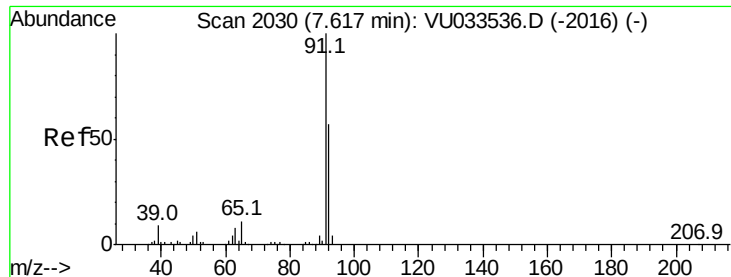


#40

4-Methyl-2-pentanone
Concen: 4.681 ug/L
RT: 7.45 min Scan# 1977
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Tgt Ion: 43 Resp: 14672
Ion Ratio Lower Upper
43 100
58 39.6 32.8 49.2
100 14.5 12.9 19.3





#42

Toluene

Concen: 2.530 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 23073

Ion Ratio Lower Upper

91 100

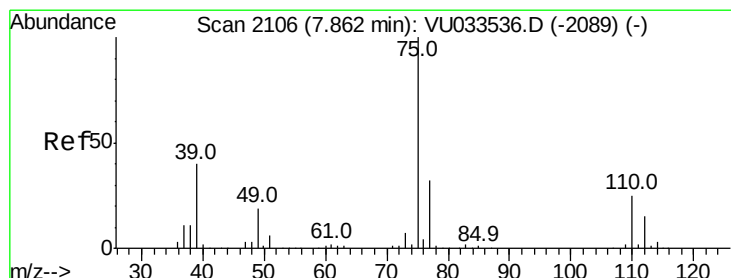
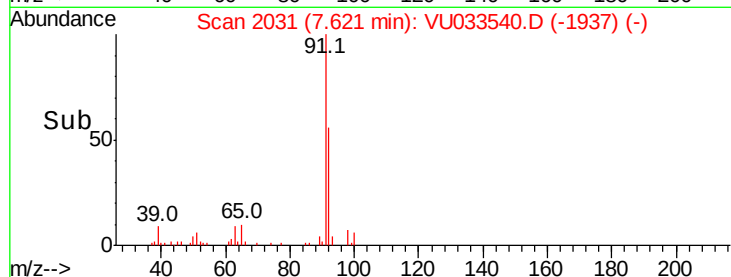
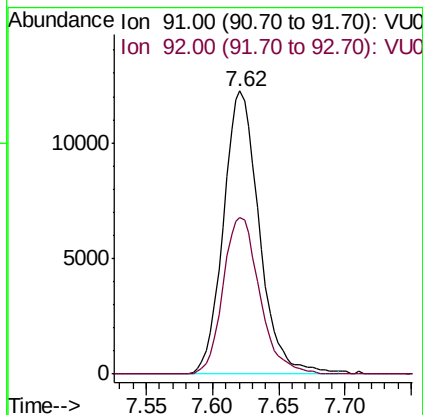
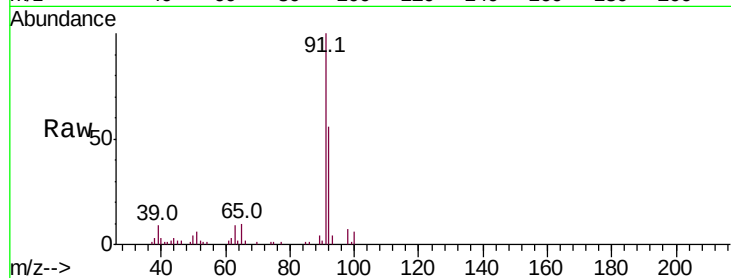
92 55.5 40.2 74.6

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 2.381 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033540.D

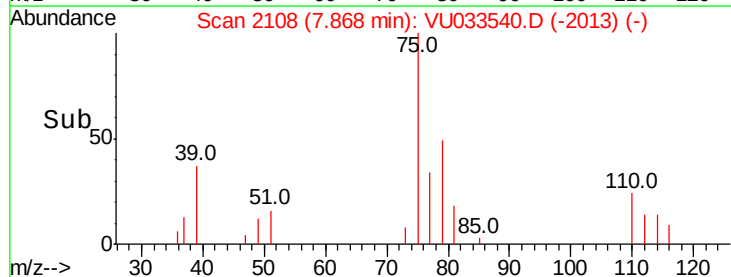
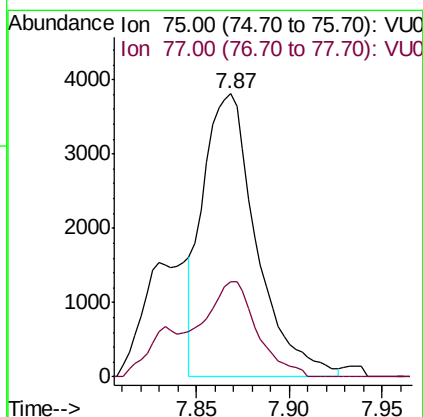
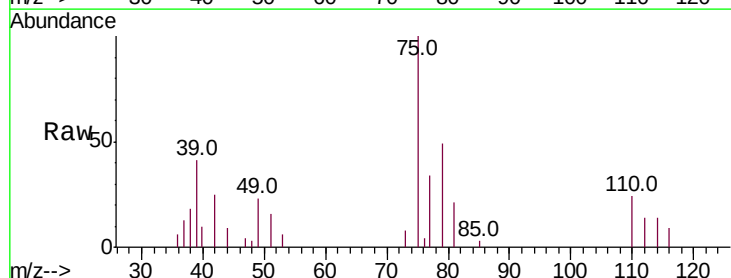
Acq: 01 Aug 2019 10:54

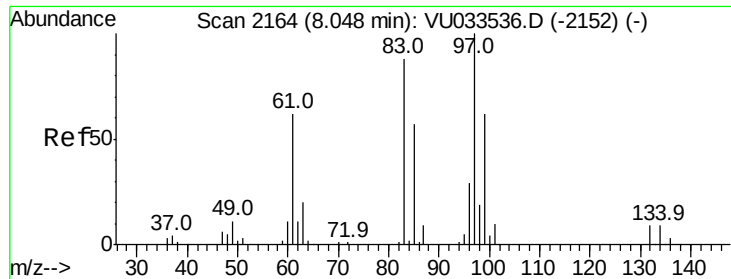
Tgt Ion: 75 Resp: 7624

Ion Ratio Lower Upper

75 100

77 33.9 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 2.388 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

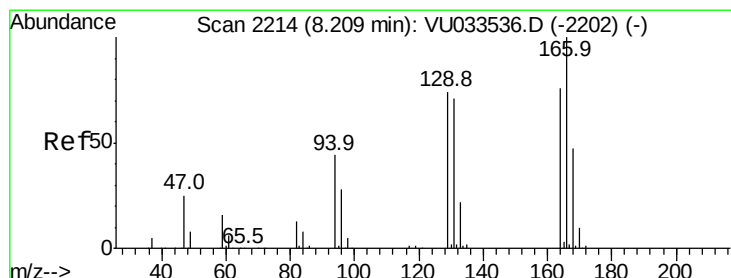
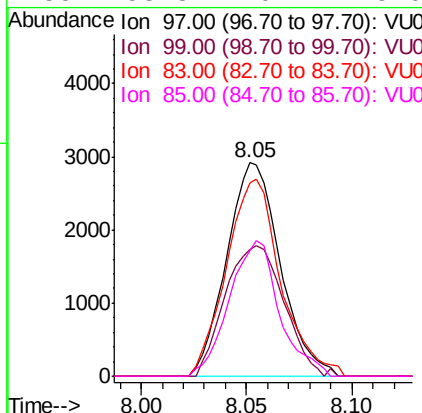
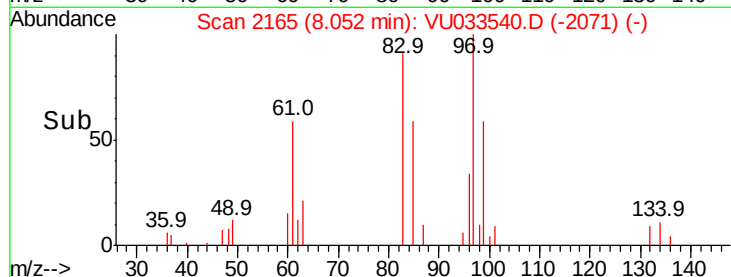
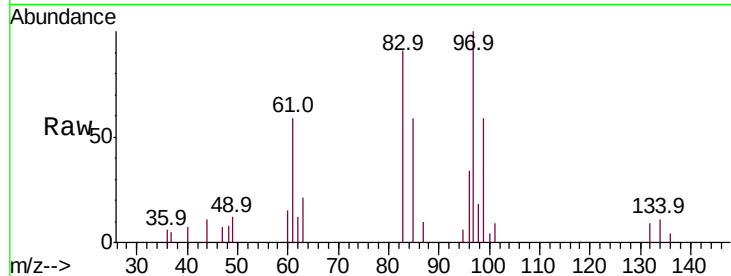
ClientSampleId :

MDL03

Tot Ion:	97	Resp:	5146
Ion	Ratio	Lower	Upper
97	100		
99	59.5	44.4	82.4
83	90.5	61.5	114.1
85	58.8	40.4	75.0

Manual Integrations
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#46

Tetrachloroethene

Concen: 2.431 ug/L

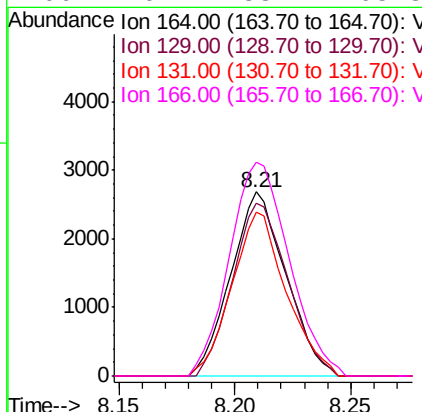
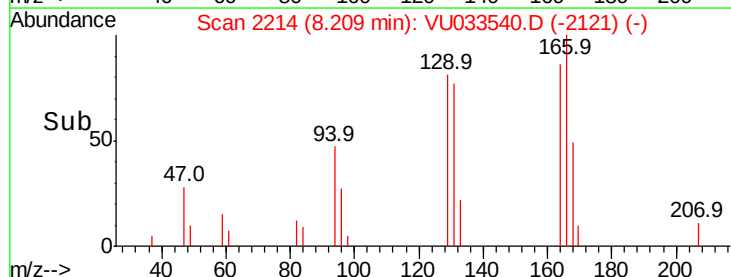
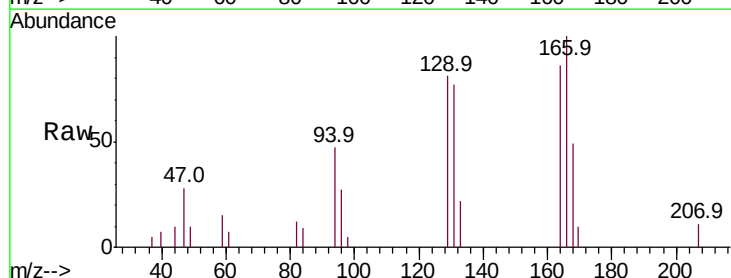
RT: 8.21 min Scan# 2214

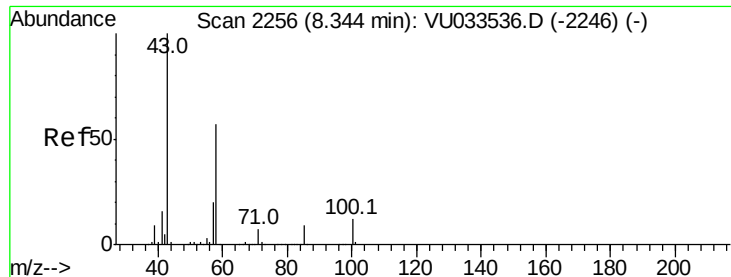
Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Tgt Ion:	164	Resp:	4441
Ion	Ratio	Lower	Upper
164	100		
129	93.8	65.5	121.7
131	89.4	63.3	117.7
166	116.2	88.2	163.8





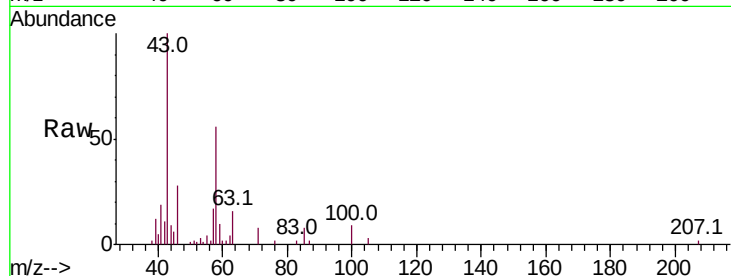
#48
2-Hexanone
Concen: 5.614 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	60.0	45.8	68.6
57	20.7	15.8	23.6
100	10.0	9.4	14.2

Manual Integrations
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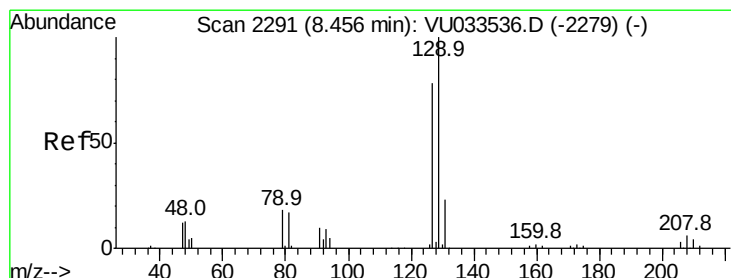
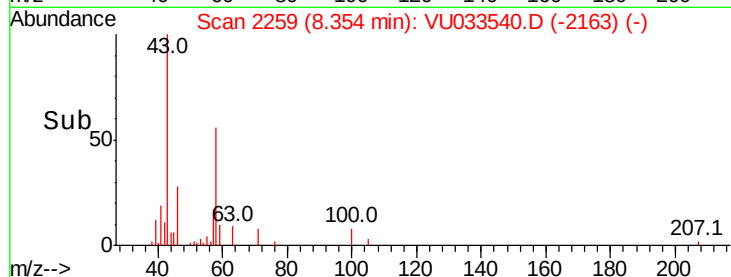
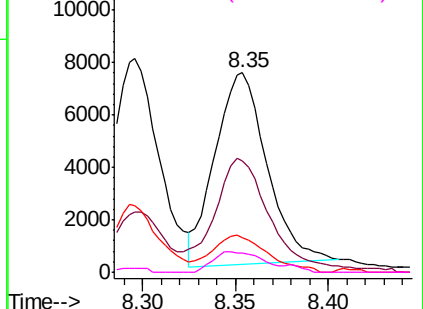
Abundance

Ion 43.00 (42.70 to 43.70): VU033536.D (-2246) (-)

Ion 58.00 (57.70 to 58.70): VU033536.D (-2246) (-)

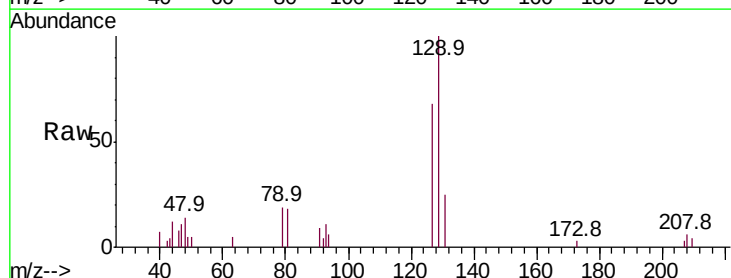
Ion 57.00 (56.70 to 57.70): VU033536.D (-2246) (-)

Ion 100.00 (99.70 to 100.70): VU033536.D (-2246) (-)



#49
Dibromochloromethane
Concen: 2.482 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

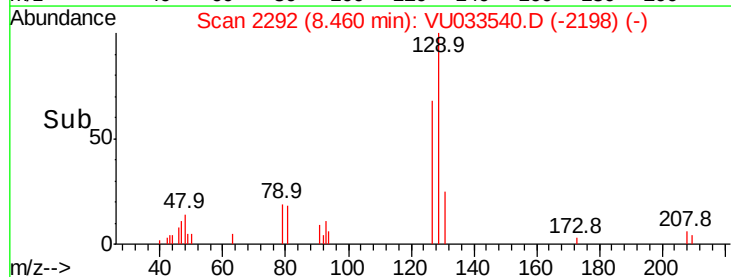
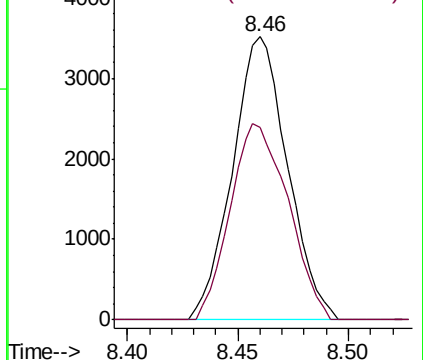
Tgt Ion	Ratio	Lower	Upper
129	100		
127	68.1	53.8	99.8

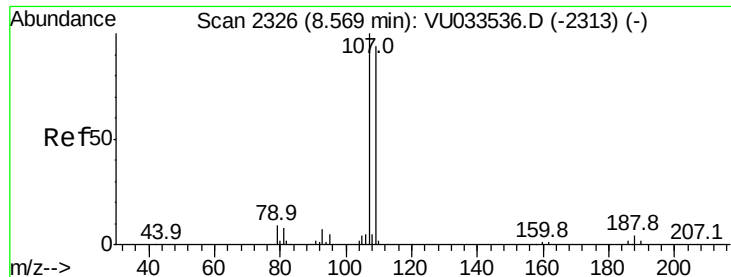


Abundance

Ion 129.00 (128.70 to 129.70): VU033536.D (-2279) (-)

Ion 127.00 (126.70 to 127.70): VU033536.D (-2279) (-)





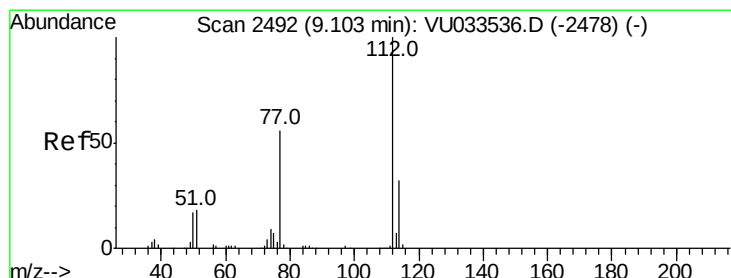
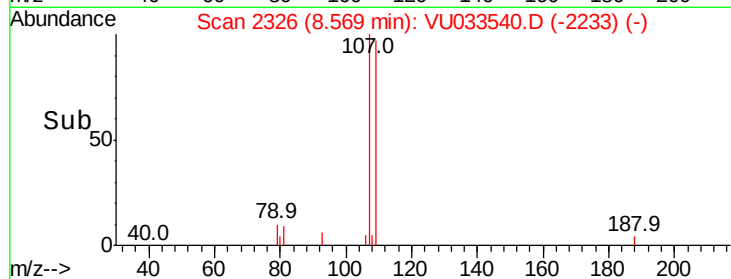
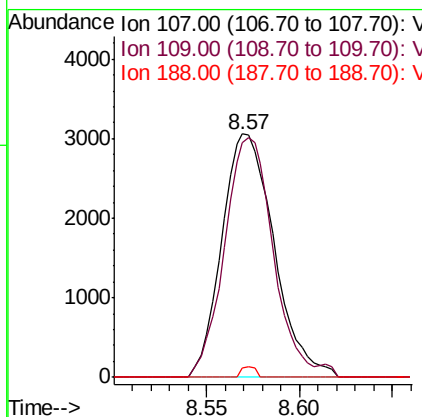
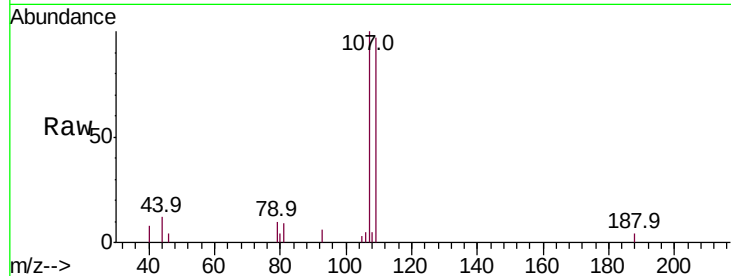
#50
 1,2-Dibromoethane
 Concen: 2.507 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	107	Resp:	5985
Ion Ratio	Lower	Upper	
107	100		
109	96.6	66.8	124.0
188	3.9	3.0	4.4

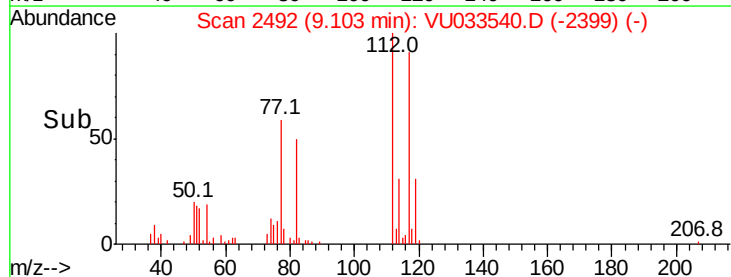
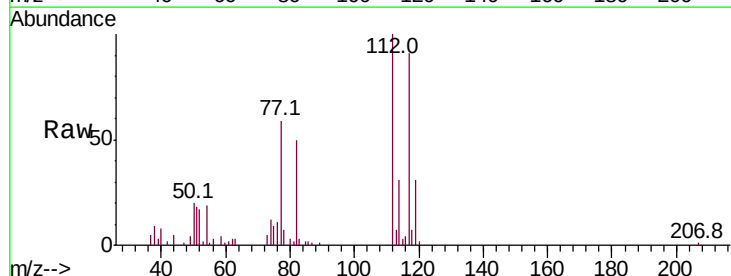
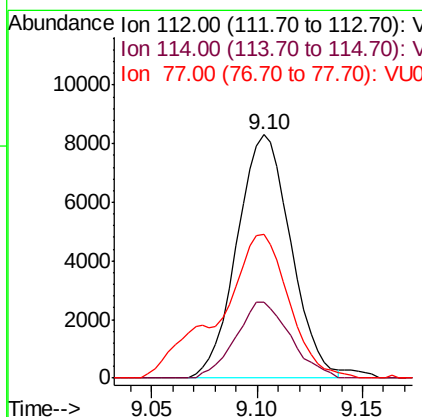
Manual Integrations
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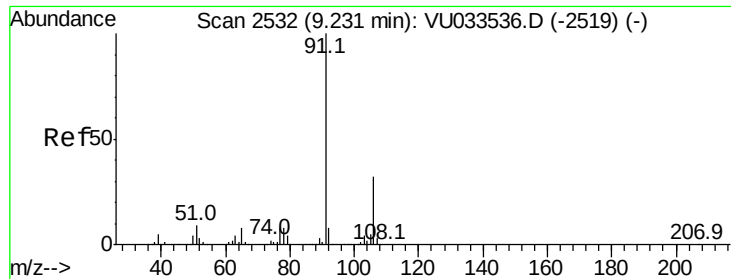
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#51
 Chlorobenzene
 Concen: 2.467 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Tgt Ion:	112	Resp:	14732
Ion Ratio	Lower	Upper	
112	100		
114	31.4	22.3	41.5
77	59.0	45.6	68.4





#52

Ethylbenzene

Concen: 2.236 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 21959

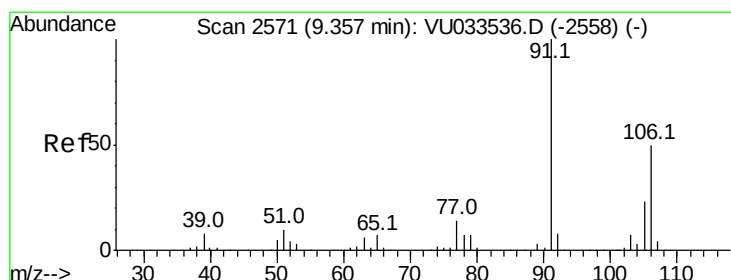
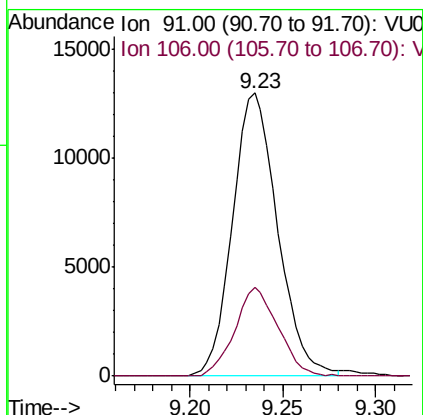
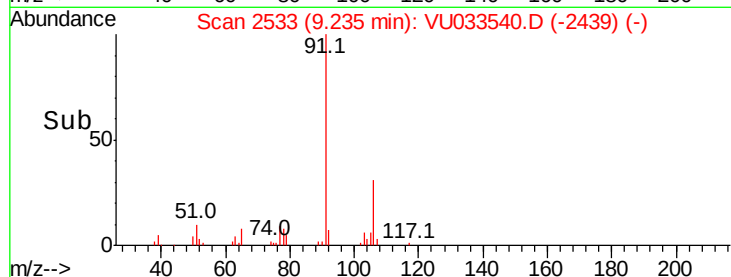
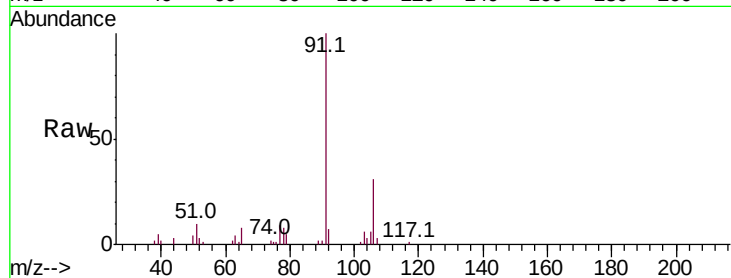
Ion Ratio Lower Upper

91 100

106 31.5 22.2 41.2

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#53

m,p-Xylene

Concen: 2.204 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033540.D

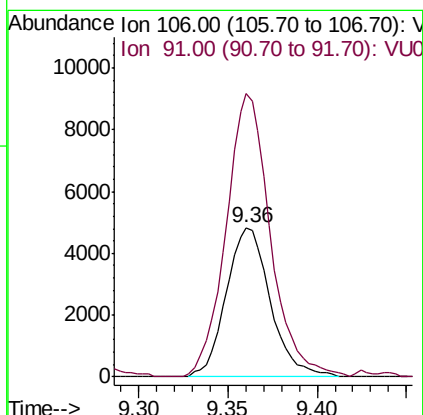
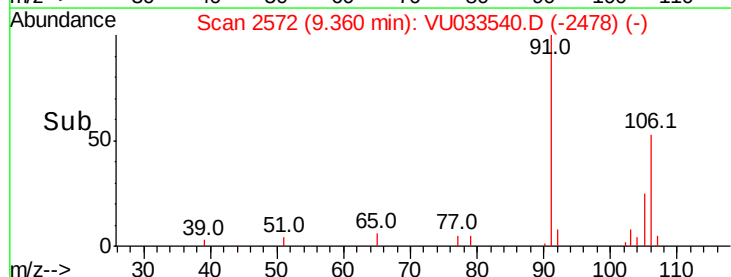
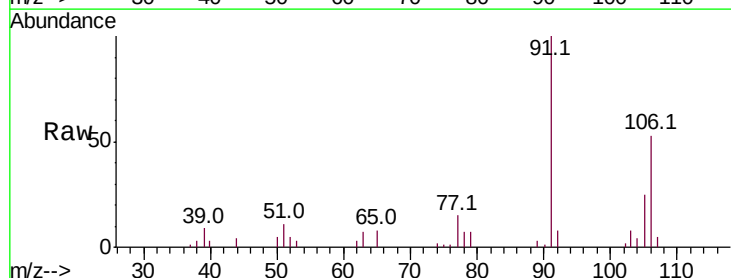
Acq: 01 Aug 2019 10:54

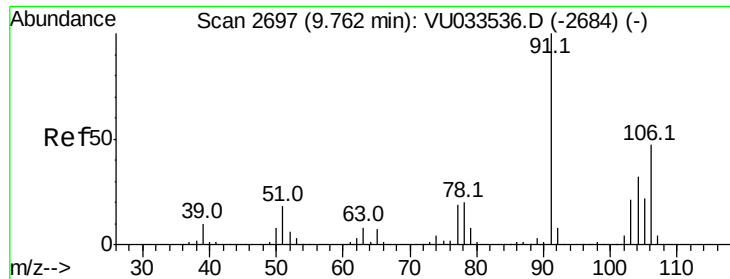
Tgt Ion: 106 Resp: 8309

Ion Ratio Lower Upper

106 100

91 190.0 143.0 265.6





#54

o-xylene

Concen: 2.049 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion:106 Resp: 7493

Ion Ratio Lower Upper

106 100

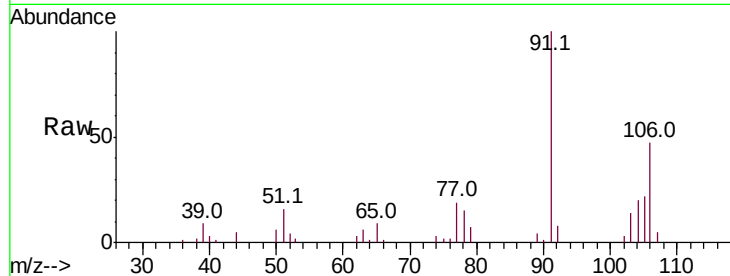
91 214.8 148.4 275.6

Manual Integrations

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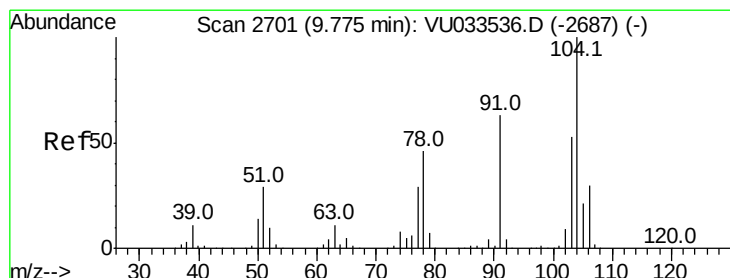
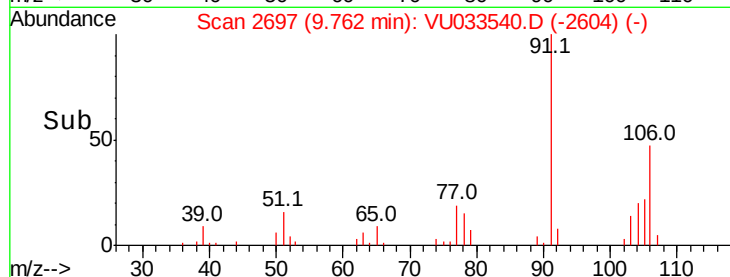
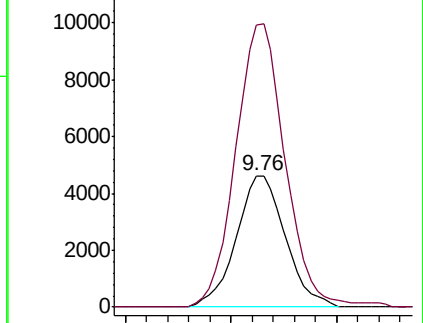
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.928 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033540.D

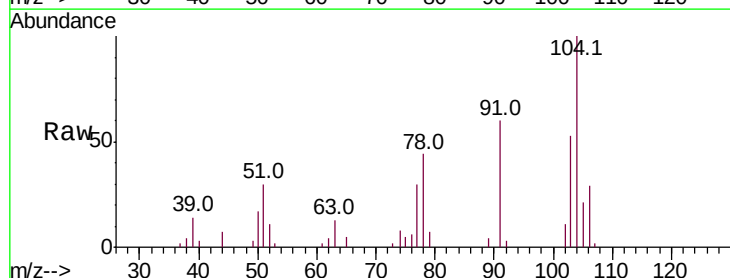
Acq: 01 Aug 2019 10:54

Tgt Ion:104 Resp: 11973

Ion Ratio Lower Upper

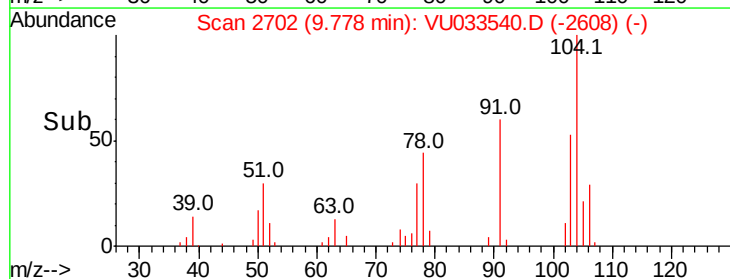
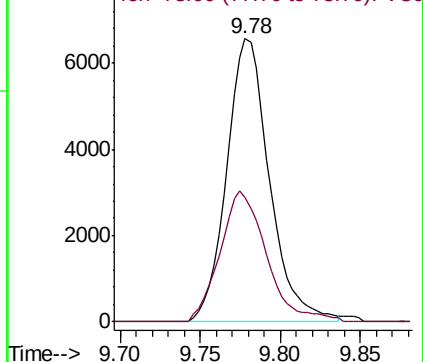
104 100

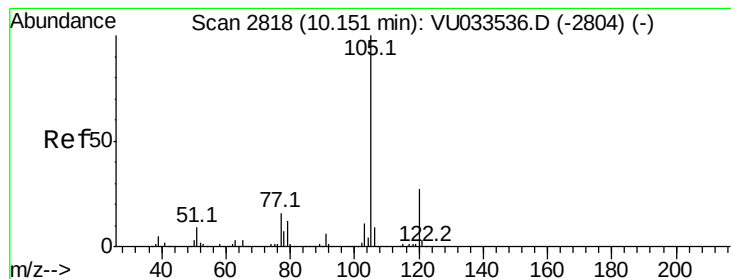
78 44.0 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.961 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

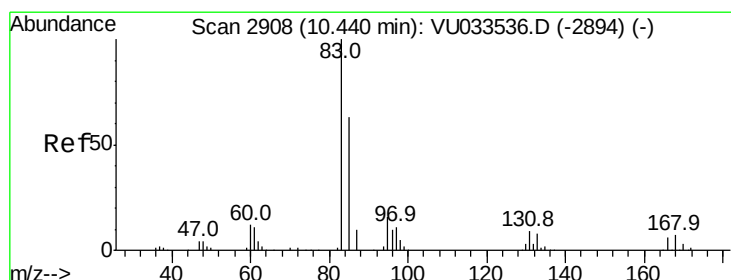
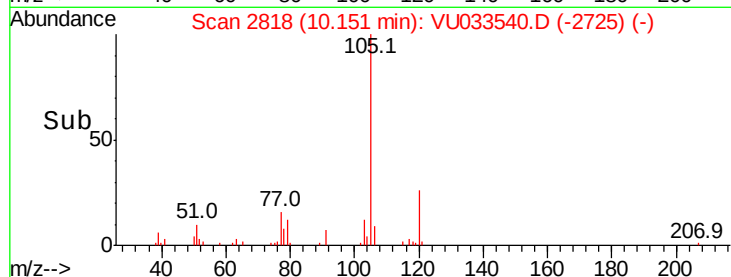
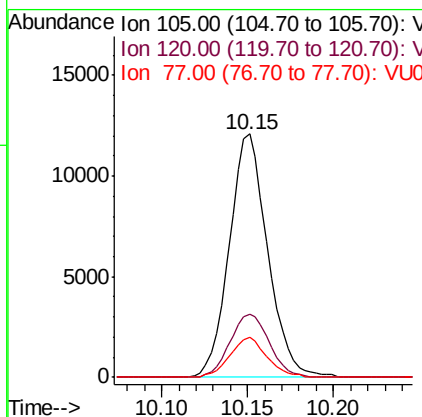
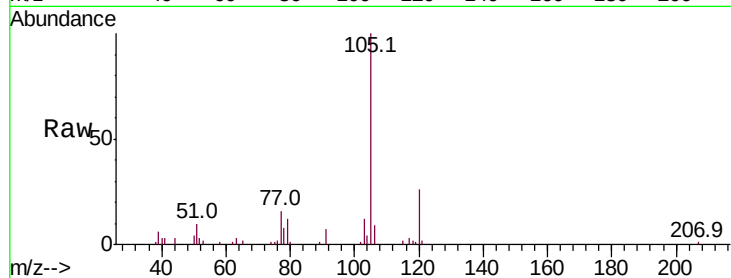
ClientSampleId :

MDL03

Tot Ion:	105	Resp:	18744
Ion Ratio	Lower	Upper	
105	100		
120	26.4	21.4	32.0
77	15.9	12.5	18.7

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.708 ug/L

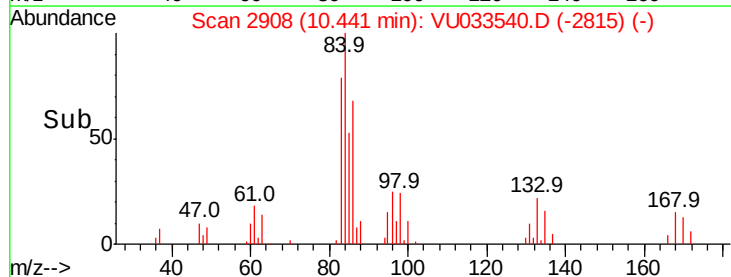
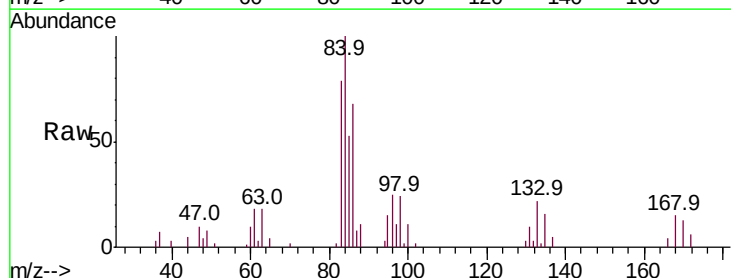
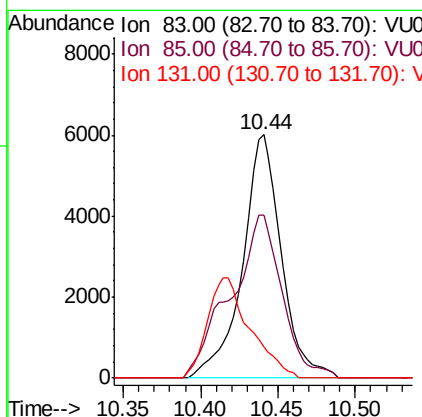
RT: 10.44 min Scan# 2908

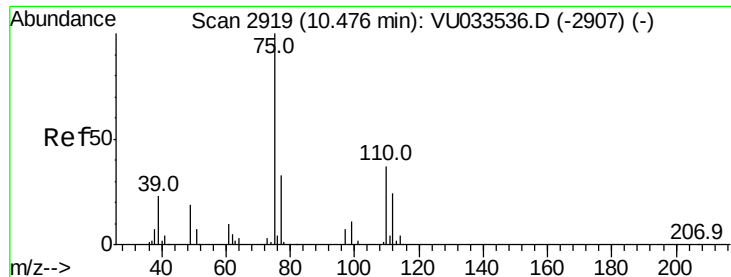
Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Tgt Ion:	83	Resp:	10528
Ion Ratio	Lower	Upper	
83	100		
85	67.0	45.4	84.4
131	12.9	7.9	11.9#





#59

1,2,3-Trichloropropane

Concen: 2.630 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 75 Resp: 7881

Ion Ratio Lower Upper

75 100

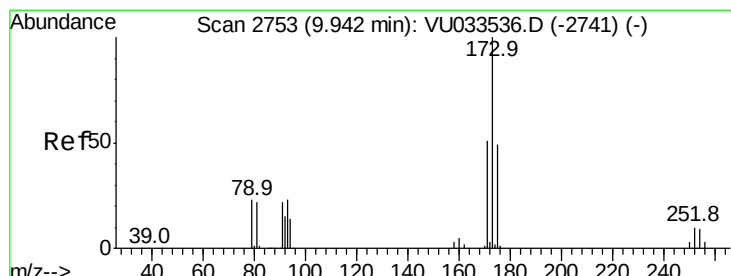
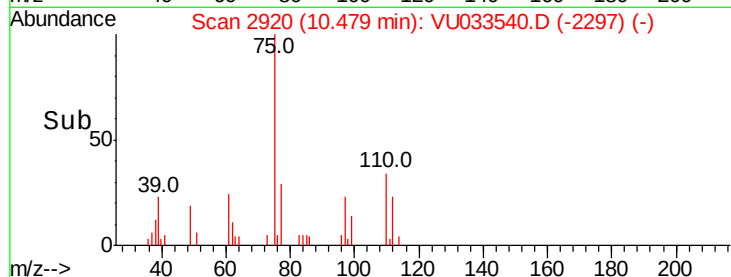
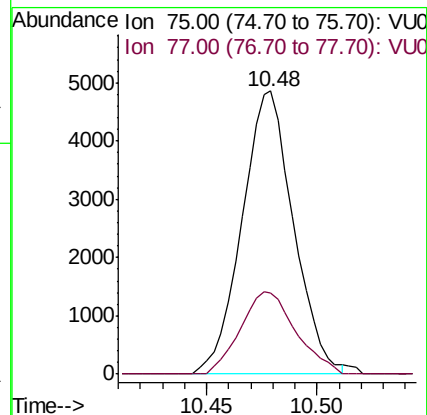
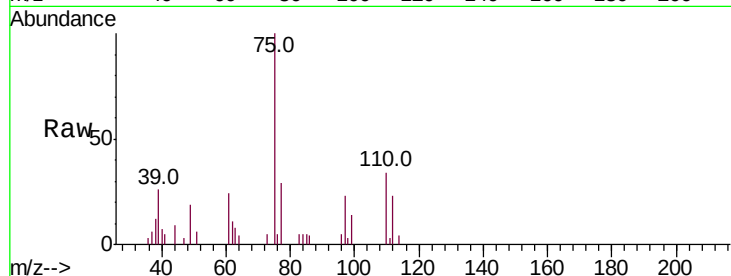
77 31.2 25.8 38.6

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#61

Bromoform

Concen: 2.649 ug/L

RT: 9.95 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU033540.D

Acq: 01 Aug 2019 10:54

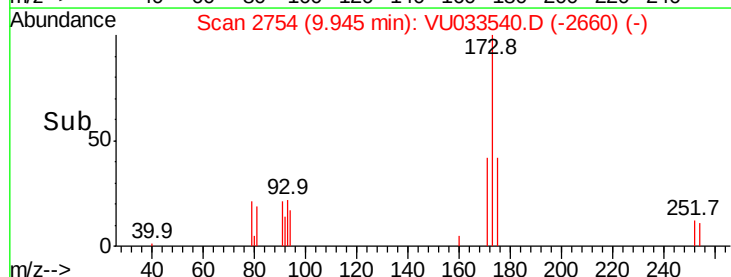
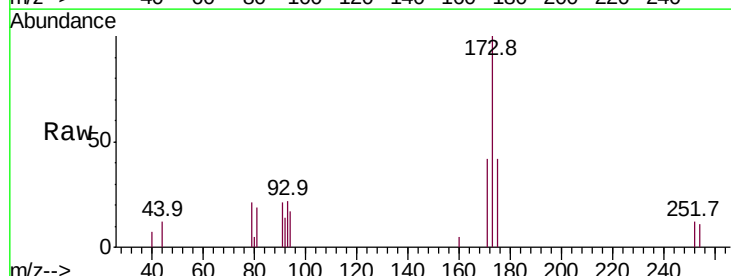
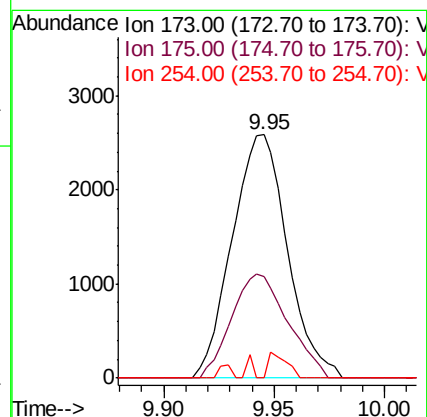
Tgt Ion: 173 Resp: 4496

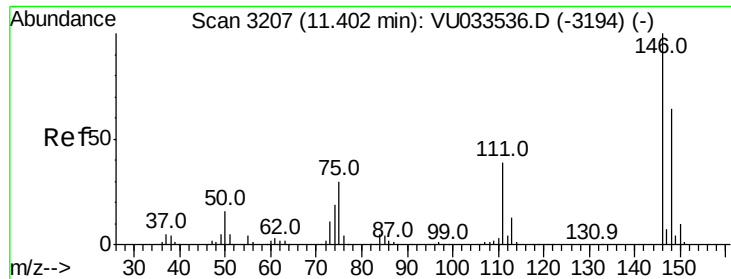
Ion Ratio Lower Upper

173 100

175 43.3 38.7 58.1

254 3.4 7.5 11.3#





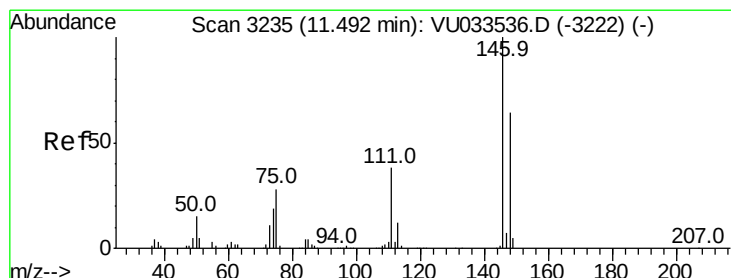
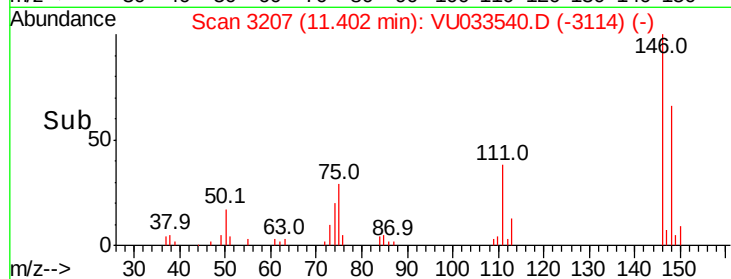
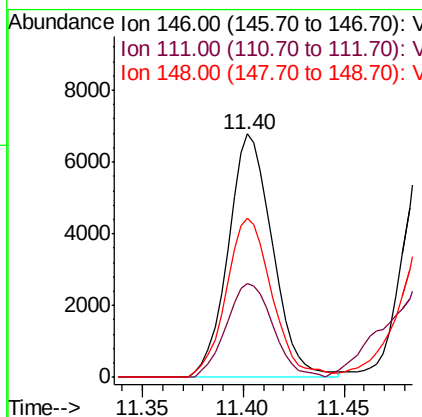
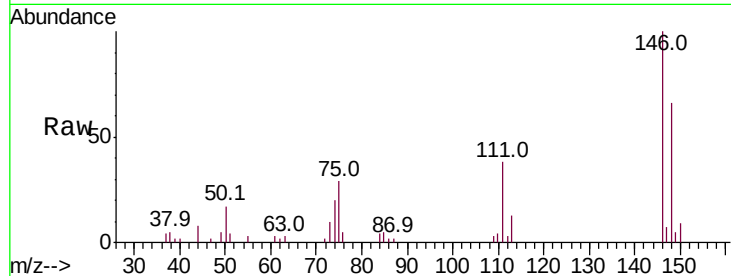
#62
 1,3-Dichlorobenzene
 Concen: 2.421 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	28.1	52.1
148	65.5	45.0	83.6

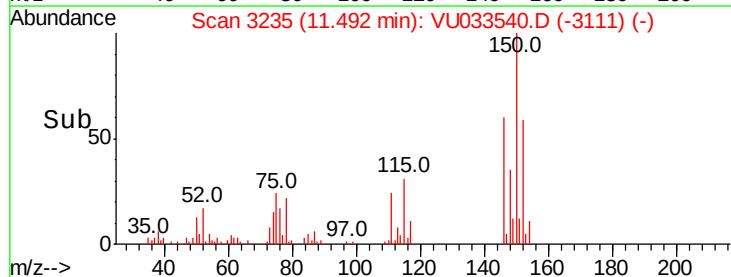
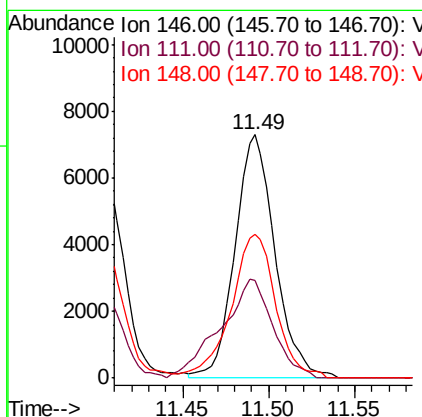
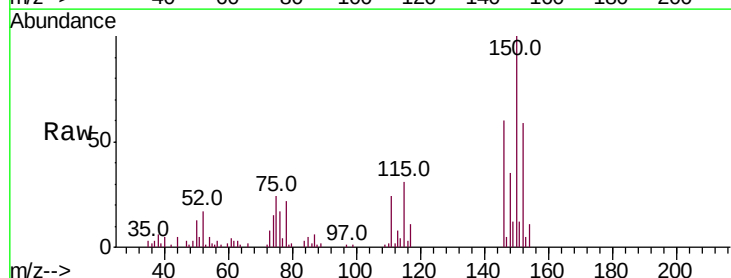
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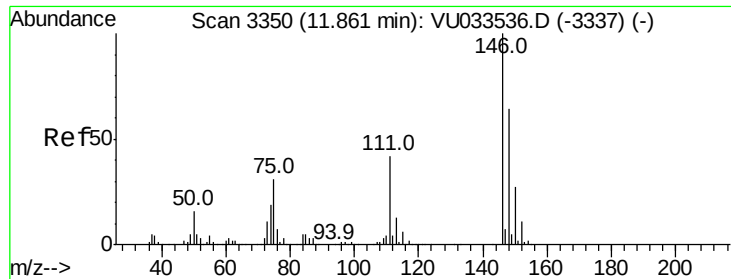
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#63
 1,4-Dichlorobenzene
 Concen: 2.624 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	27.2	50.4
148	59.2	44.5	82.7





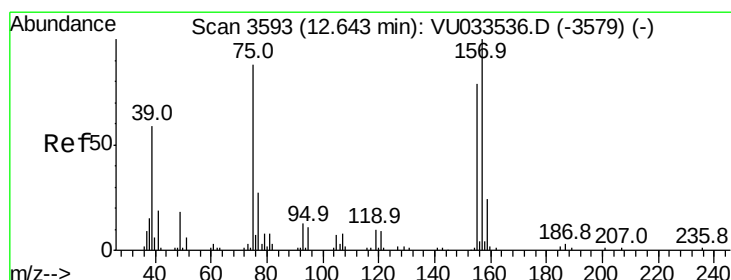
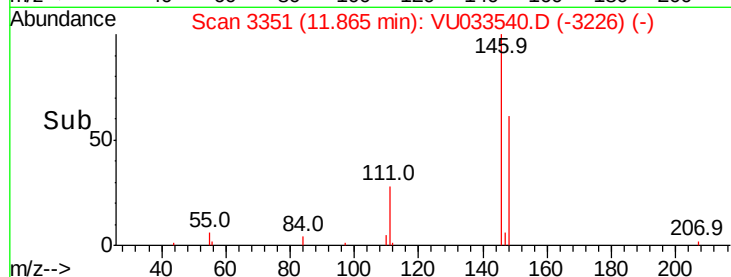
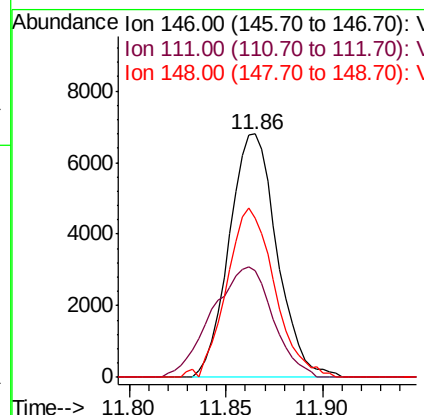
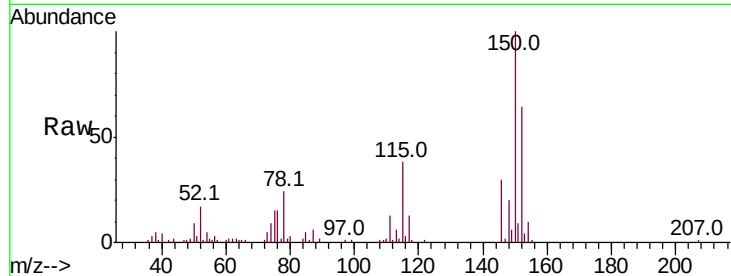
#65
 1,2-Dichlorobenzene
 Concen: 2.675 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.7	31.7	47.5
148	65.6	50.3	75.5

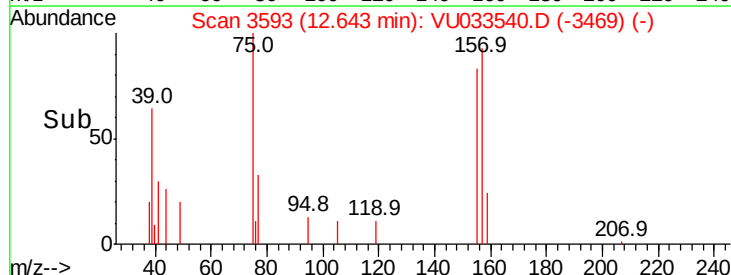
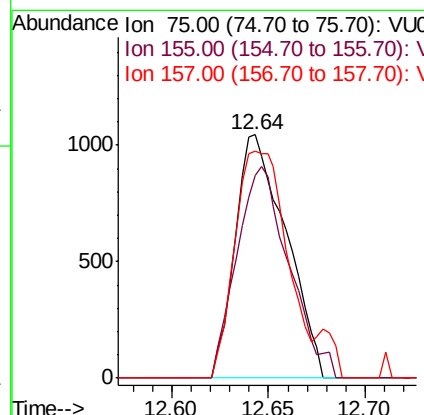
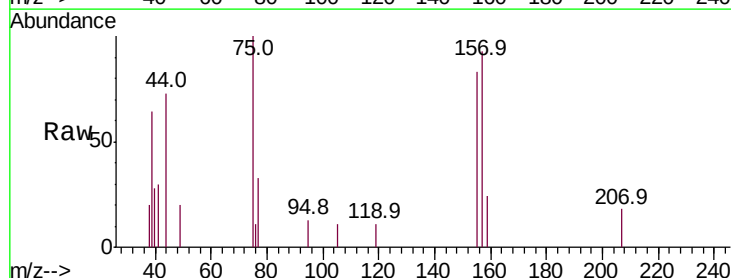
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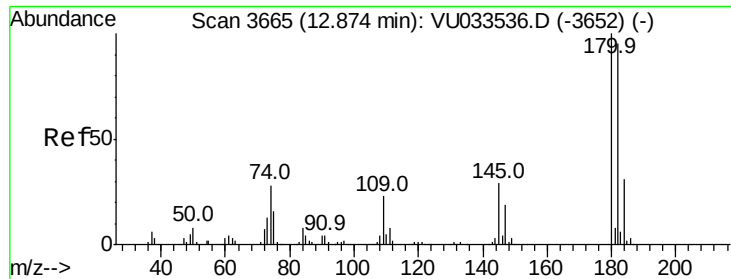
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.362 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.1	69.4	104.0
157	93.0	91.8	137.8





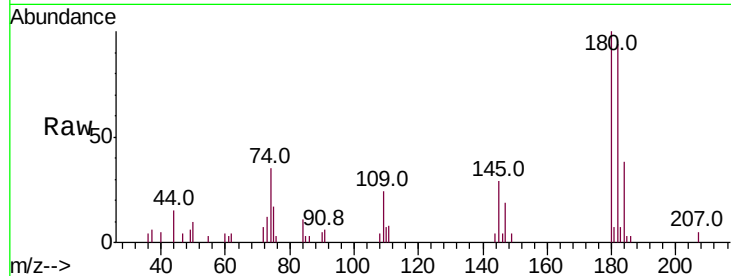
#67
 1,3,5-Trichlorobenzene
 Concen: 2.134 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.4	75.6	113.4
184	32.2	24.2	36.2
145	29.9	22.7	34.1

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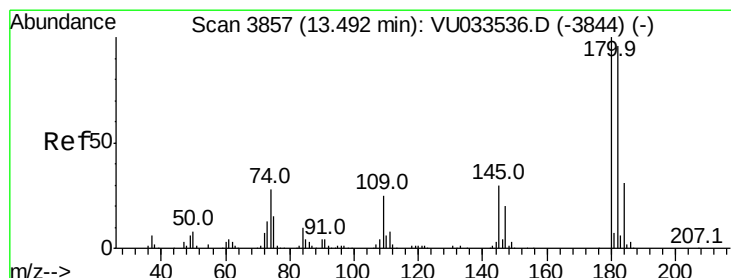
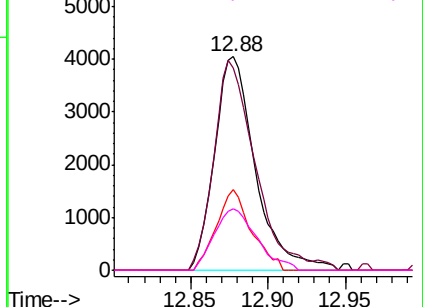
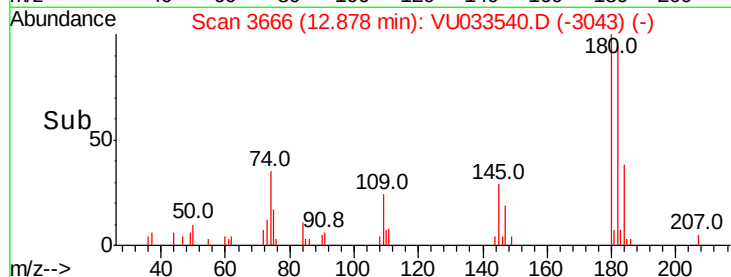
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

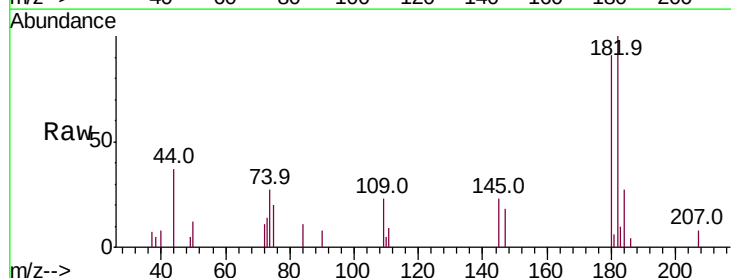
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.769 ug/L
 RT: 13.50 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VU033540.D
 Acq: 01 Aug 2019 10:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.5	75.8	113.8
145	16.2	24.3	36.5#

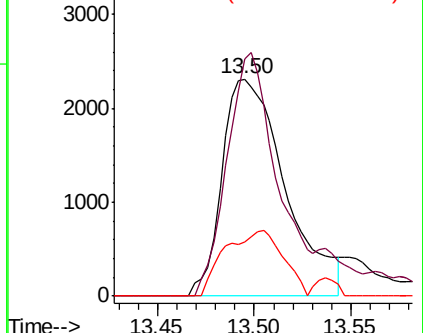
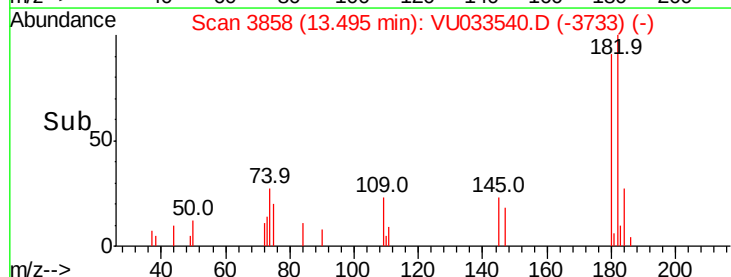


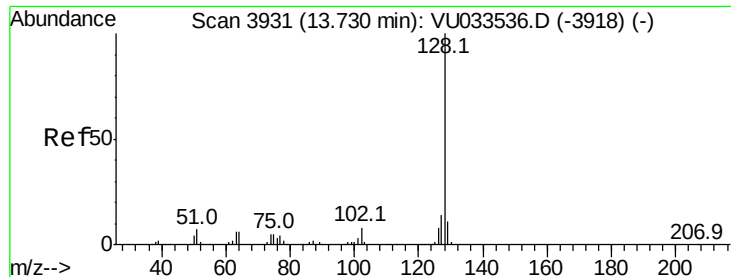
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





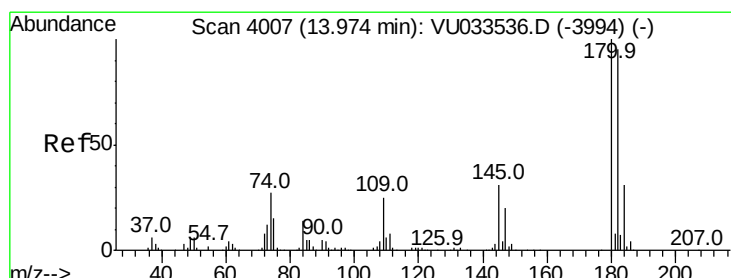
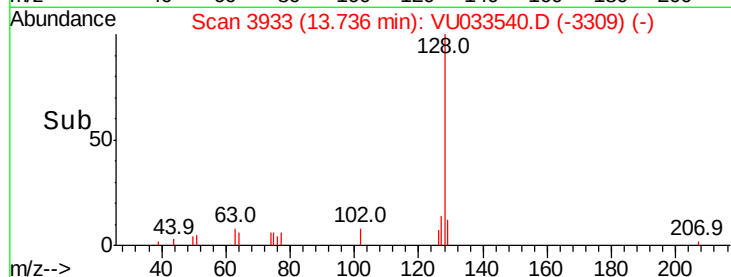
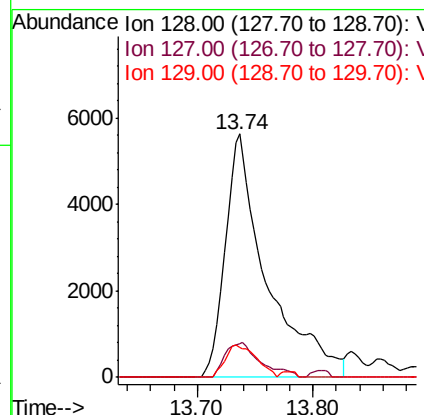
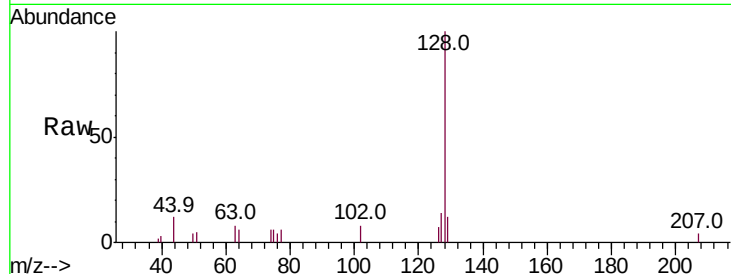
#69
Naphthalene
Concen: 1.645 ug/L m
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.8	16.2
129	5.6	8.7	13.1#

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#70
1,2,3-Trichlorobenzene
Concen: 2.038 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033540.D
Acq: 01 Aug 2019 10:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.6	75.5	113.3
145	21.6	24.4	36.6#

