

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 Data File : VU033501.D
 Acq On : 30 Jul 2019 18:49
 Operator : JC/SP
 Sample : MDL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 7/31/2019 10:33:54 AM

Quant Time: Jul 31 08:24:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:02:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	331841	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	326162	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	160425	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	108050	44.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.56%
7) Chloroethane-d5	1.67	69	93337	45.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.18%
11) 1,1-Dichloroethene-d2	2.26	63	147968	33.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.58%
21) 2-Butanone-d5	4.15	46	153749	96.21	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.21%
24) Chloroform-d	4.62	84	182903	45.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.46%
26) 1,2-Dichloroethane-d4	5.29	65	117724	45.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.94%
32) Benzene-d6	5.32	84	380657	47.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.16%
36) 1,2-Dichloropropane-d6	6.31	67	119895	47.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.60%
41) Toluene-d8	7.55	98	346143	45.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.38%
43) trans-1,3-Dichloropropene-	7.83	79	56514	44.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.90%
47) 2-Hexanone-d5	8.29	63	112062	93.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.12%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	175539	44.92	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.84%
64) 1,2-Dichlorobenzene-d4	11.85	152	138890	47.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.56%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8417	2.690 ug/L	99
3) Chloromethane	1.32	50	9236	2.930 ug/L	96
5) Vinyl chloride	1.40	62	9478	2.805 ug/L #	68
6) Bromomethane	1.62	94	7414	2.487 ug/L	95
8) Chloroethane	1.69	64	5363	2.612 ug/L	90
9) Trichlorofluoromethane	1.87	101	12139	2.746 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7297	3.256 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6749	3.141 ug/L #	1
13) Acetone	2.31	43	8390	5.132 ug/L	97
14) Carbon disulfide	2.46	76	19210	2.850 ug/L	97
15) Methyl Acetate	2.60	43	6889	2.647 ug/L	95
16) Methylene chloride	2.68	84	7195	2.931 ug/L	94
17) trans-1,2-Dichloroethene	2.97	96	6416	2.850 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	17599	2.563 ug/L	97
19) 1,1-Dichloroethane	3.42	63	11749	2.780 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	6721	2.660 ug/L	99
22) 2-Butanone	4.25	43	10028m	5.138 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3406	2.583	ug/L	83
25) Chloroform	4.65	83	15866	3.568	ug/L	98
27) 1,2-Dichloroethane	5.39	62	9351	2.731	ug/L	97
29) Cyclohexane	4.97	56	8949	2.515	ug/L #	93
30) 1,1,1-Trichloroethane	4.89	97	10260	2.734	ug/L	97
31) Carbon tetrachloride	5.11	117	8371	2.561	ug/L	98
33) Benzene	5.37	78	26125	2.777	ug/L	100
34) Trichloroethene	6.17	95	6714	2.705	ug/L	95
35) Methylcyclohexane	6.40	83	9946	2.568	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6974	2.769	ug/L #	93
38) Bromodichloromethane	6.74	83	8892	2.731	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	10467	2.663	ug/L	94
40) 4-Methyl-2-pentanone	7.44	43	17734	5.100	ug/L	99
42) Toluene	7.62	91	27442	2.712	ug/L	96
44) trans-1,3-Dichloropropene	7.86	75	9809m	2.761	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	6455	2.700	ug/L	98
46) Tetrachloroethene	8.22	164	5558	2.743	ug/L	94
48) 2-Hexanone	8.35	43	15198	5.407	ug/L	92
49) Dibromochloromethane	8.46	129	6984	2.567	ug/L	99
50) 1,2-Dibromoethane	8.57	107	7522	2.840	ug/L #	94
51) Chlorobenzene	9.10	112	17718	2.675	ug/L	99
52) Ethylbenzene	9.23	91	27081	2.486	ug/L	97
53) m,p-Xylene	9.36	106	10569	2.527	ug/L	84
54) o-xylene	9.76	106	9527	2.348	ug/L	97
55) Styrene	9.78	104	14680	2.130	ug/L	99
56) Isopropylbenzene	10.15	105	24314	2.294	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	12122	2.811	ug/L #	98
59) 1,2,3-Trichloropropane	10.48	75	8833	2.657	ug/L	99
61) Bromoform	9.94	173	5319	2.745	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	14238	2.890	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	15138	2.957	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	14660	2.943	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	2610	2.836	ug/L	84
67) 1,3,5-Trichlorobenzene	12.88	180	10483	2.637	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	7643	2.250	ug/L	93
69) Naphthalene	13.74	128	17824	1.829	ug/L #	94
70) 1,2,3-Trichlorobenzene	13.98	180	8307	2.326	ug/L	98

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

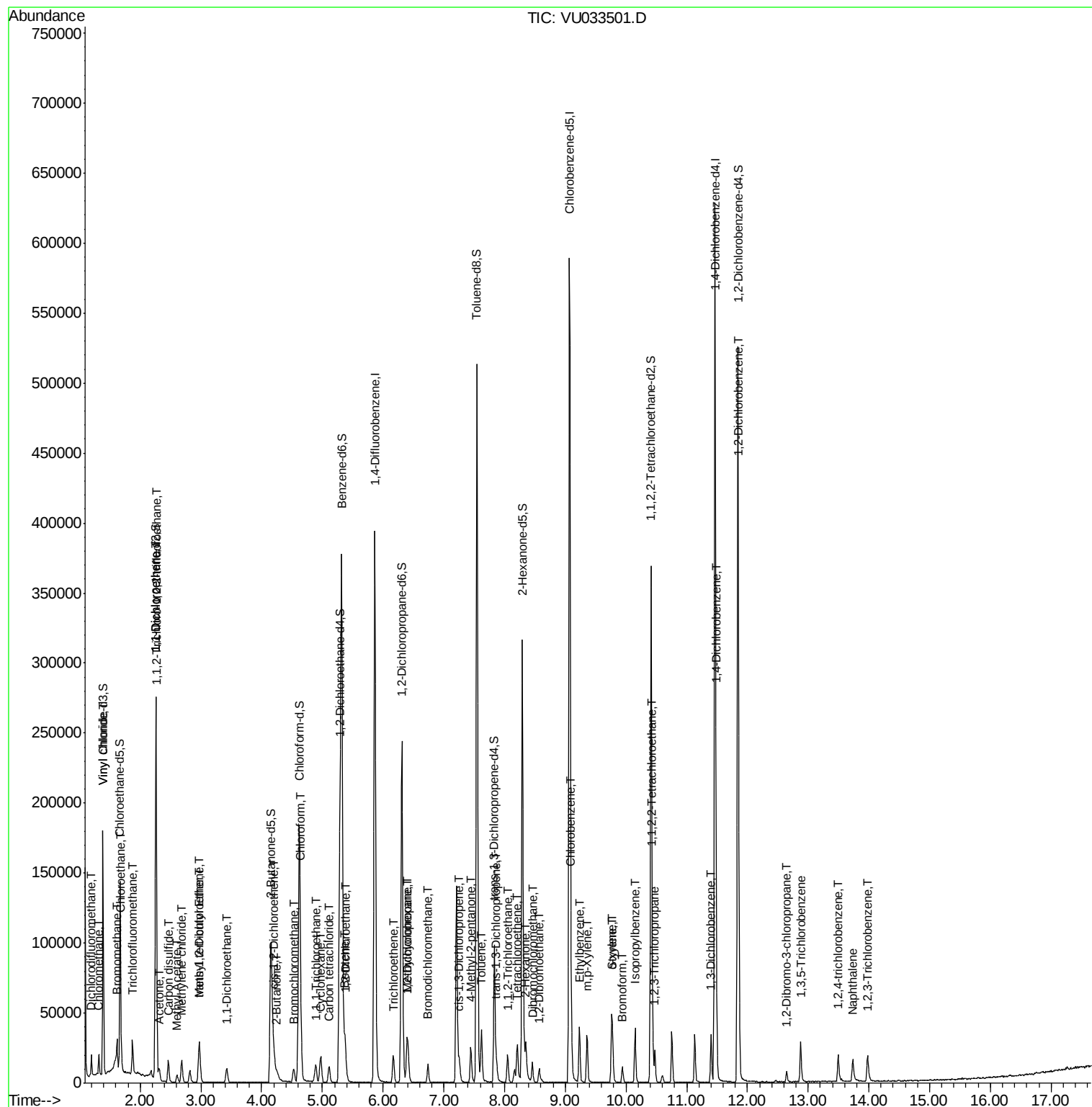
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU073119\
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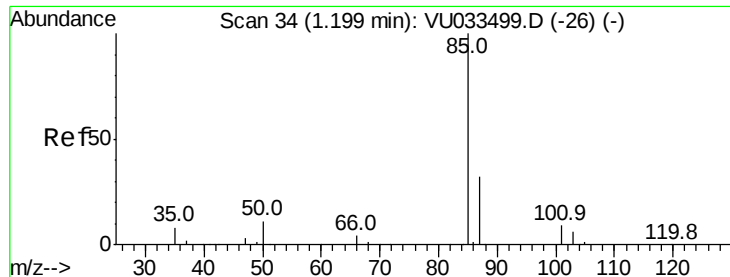
Instrument :
MSVOA_U
ClientSampled :
MDL01

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#2

Dichlorodifluoromethane

Concen: 2.690 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleID :

MDL01

Tot Ion: 85 Resp: 8417

Ion Ratio Lower Upper

85 100

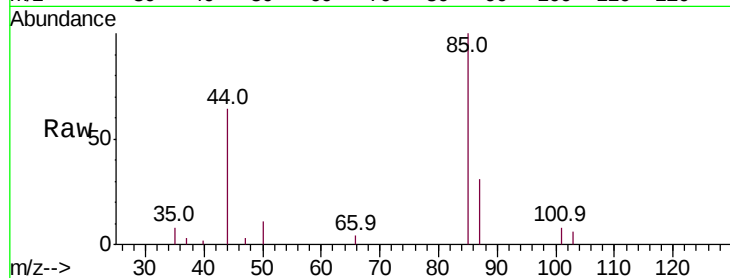
87 32.2 25.4 38.2

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU033499.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033499.D (-26) (-)

1.20

8000

6000

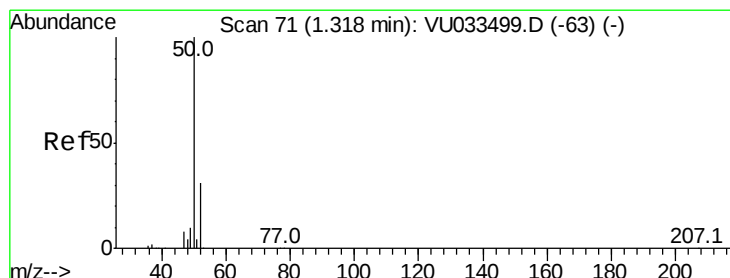
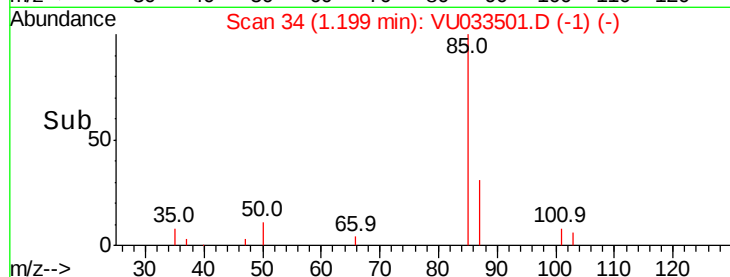
4000

2000

0

1.16 1.18 1.20 1.22 1.24

Time-->



#3

Chloromethane

Concen: 2.930 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033501.D

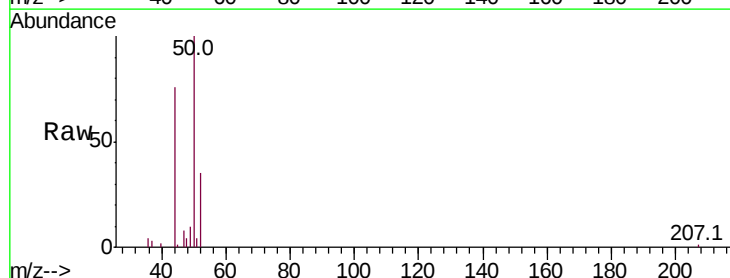
Acq: 30 Jul 2019 18:49

Tgt Ion: 50 Resp: 9236

Ion Ratio Lower Upper

50 100

52 35.4 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033499.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033499.D (-63) (-)

1.32

8000

6000

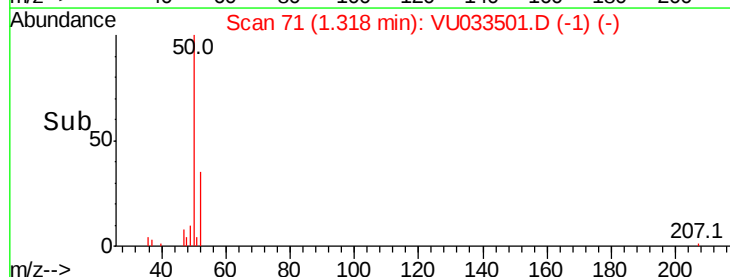
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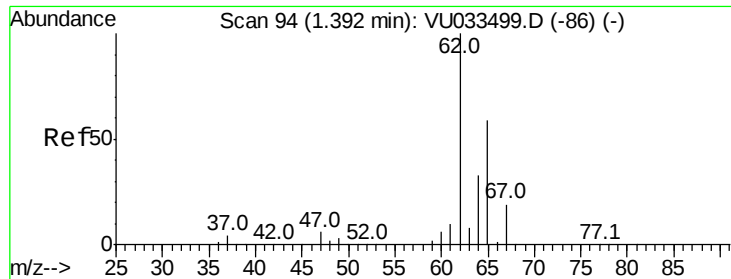
2000

0

1.28 1.30 1.32 1.34 1.36

Time-->





#5

Vinyl chloride

Concen: 2.805 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 9478

Ion Ratio Lower Upper

62 100

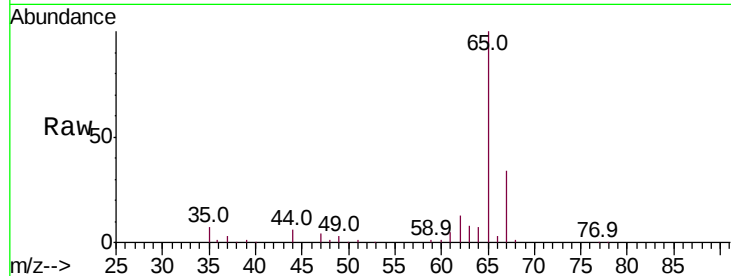
64 51.4 23.4 43.4#

Manual Integrations

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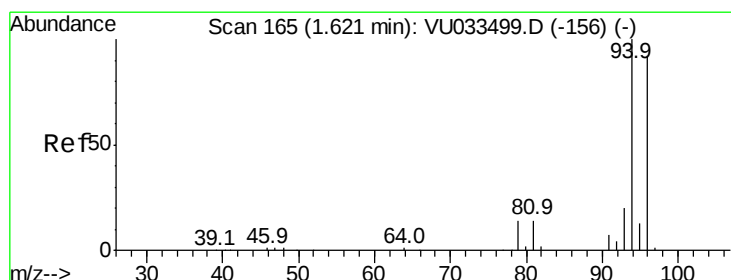
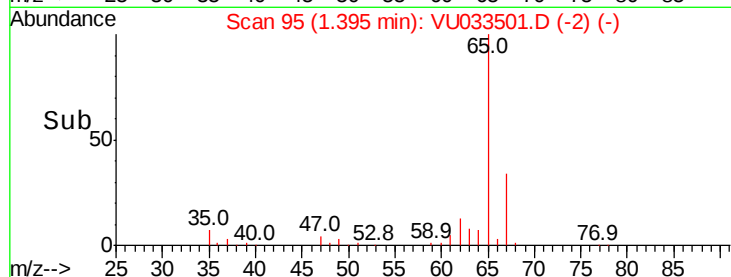
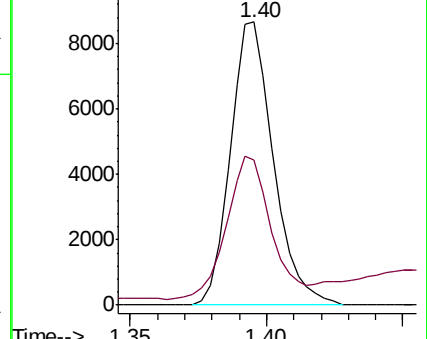
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.487 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033501.D

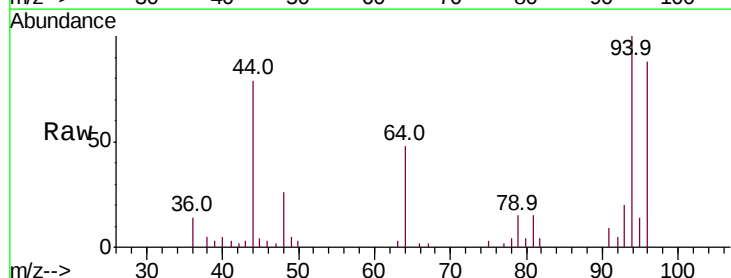
Acq: 30 Jul 2019 18:49

Tgt Ion: 94 Resp: 7414

Ion Ratio Lower Upper

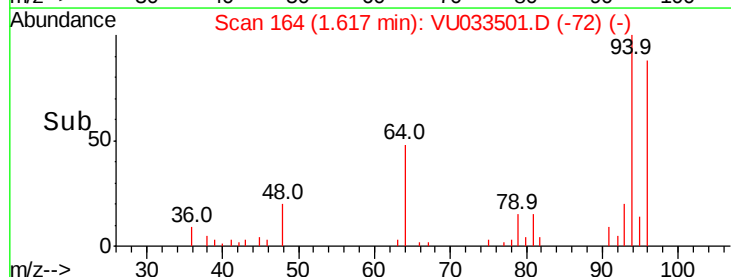
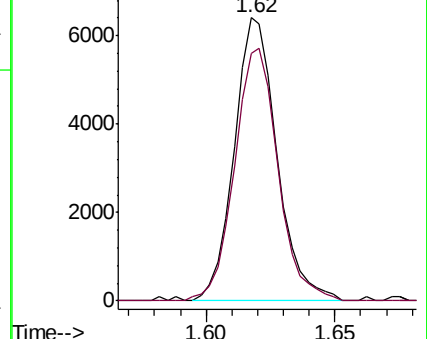
94 100

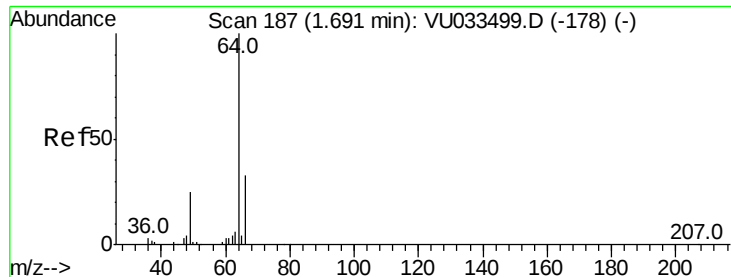
96 87.6 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.612 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 5363

Ion Ratio Lower Upper

64 100

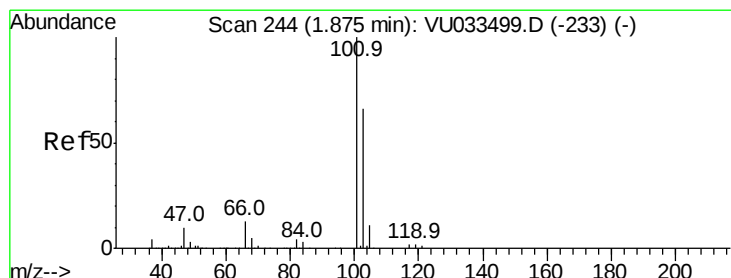
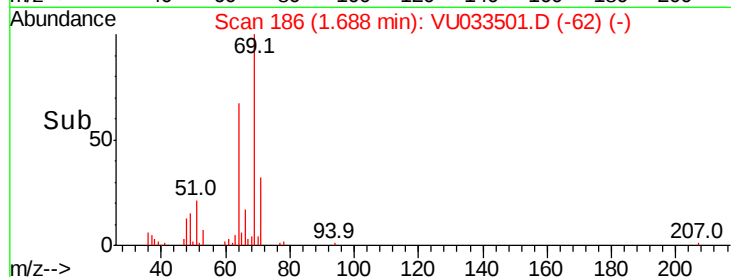
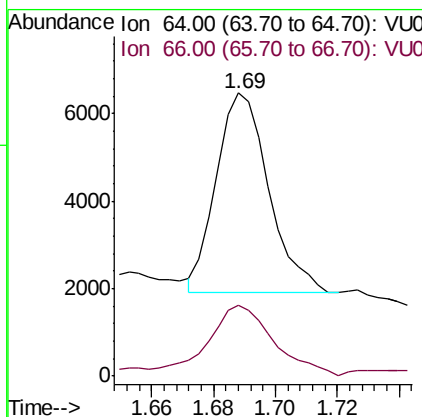
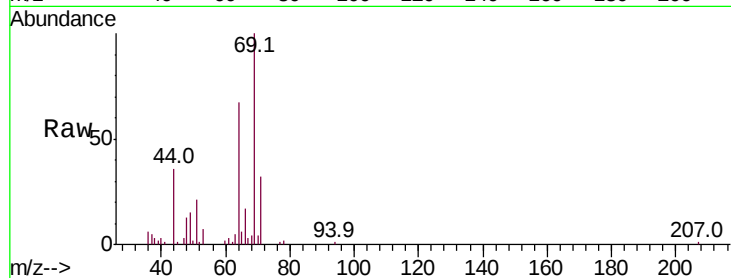
66 25.0 21.1 39.3

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.746 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033501.D

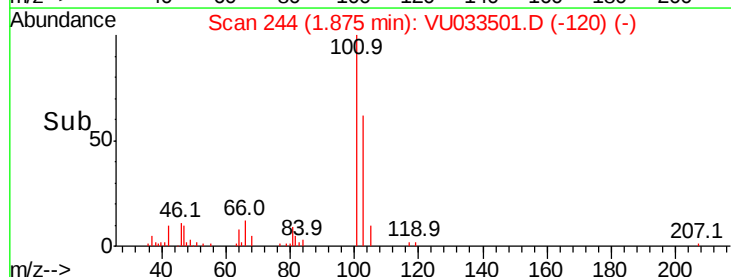
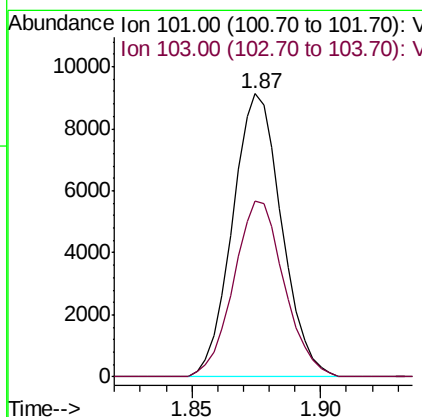
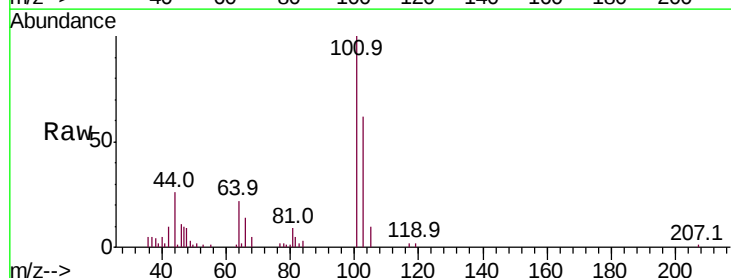
Acq: 30 Jul 2019 18:49

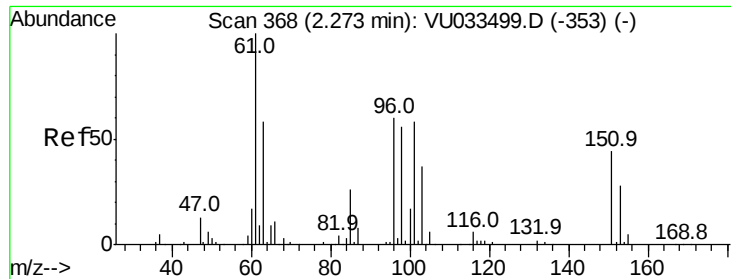
Tgt Ion: 101 Resp: 12139

Ion Ratio Lower Upper

101 100

103 63.8 51.6 77.4





#10

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

Concen: 3.256 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

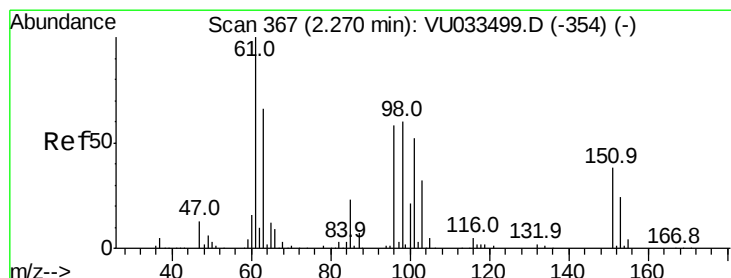
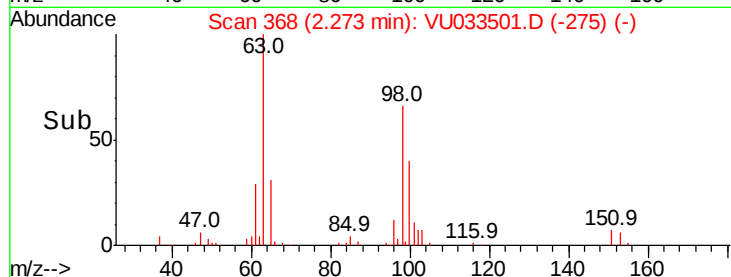
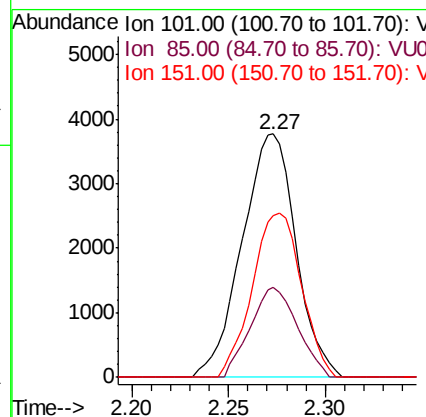
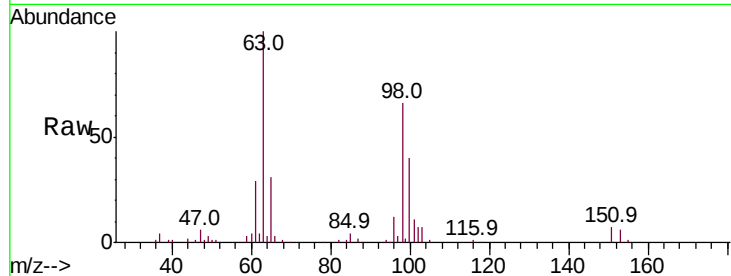
ClientSampled :

MDL01

Tot Ion	Ratio	Lower	Upper
101	100		
85	32.3	35.8	53.8#
151	61.6	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 3.141 ug/L

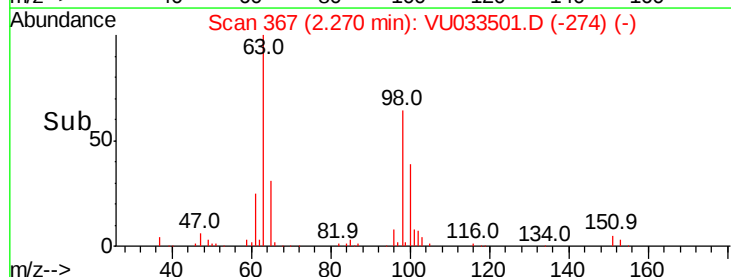
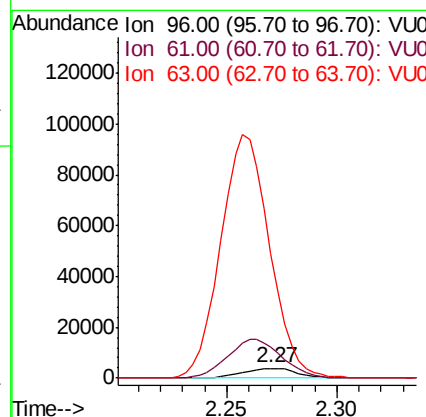
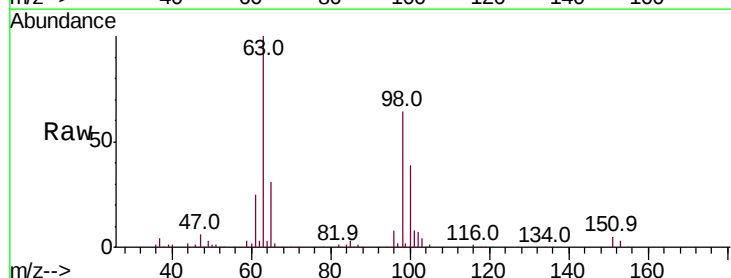
RT: 2.27 min Scan# 367

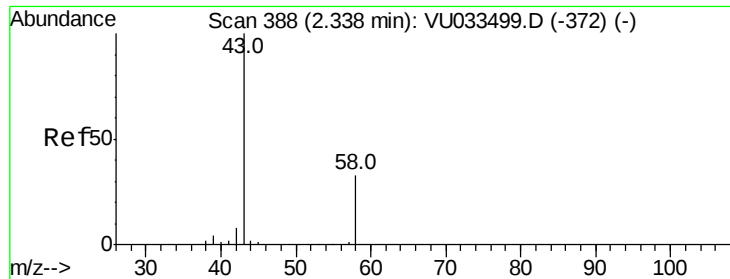
Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	306.2	119.3	221.5#
63	1248.8	86.6	160.8#





#13

Acetone

Concen: 5.132 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 8390

Ion Ratio Lower Upper

43 100

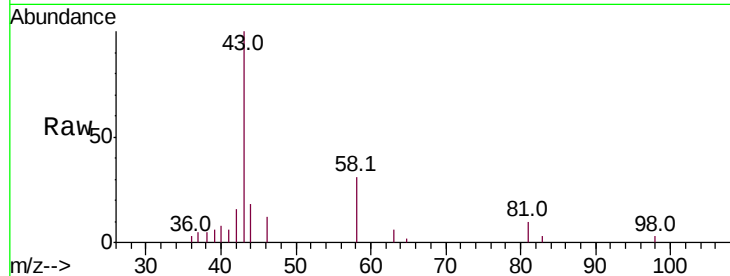
58 31.3 0.0 66.2

Manual Integrations

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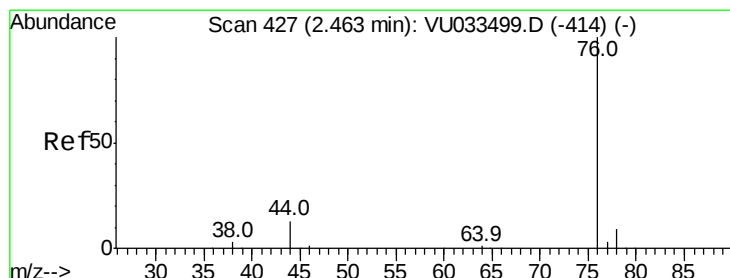
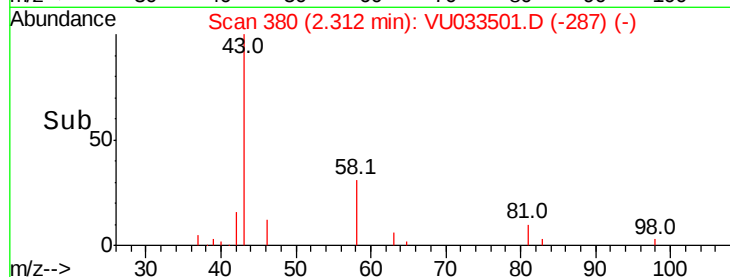
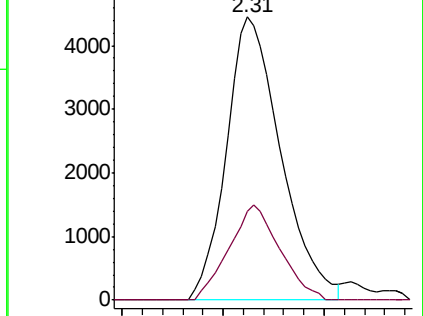
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Abundance Ion 43.00 (42.70 to 43.70): VU033501.D (-372) (-)

Ion 58.00 (57.70 to 58.70): VU033501.D (-372) (-)



#14

Carbon disulfide

Concen: 2.850 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033501.D

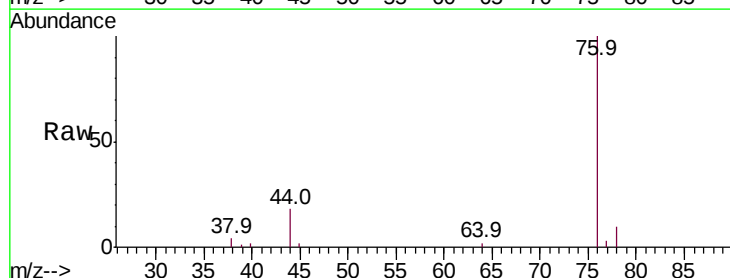
Acq: 30 Jul 2019 18:49

Tgt Ion: 76 Resp: 19210

Ion Ratio Lower Upper

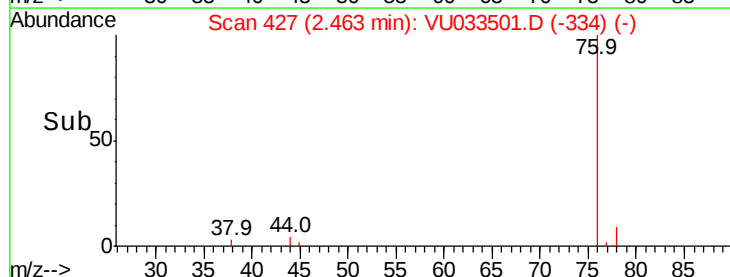
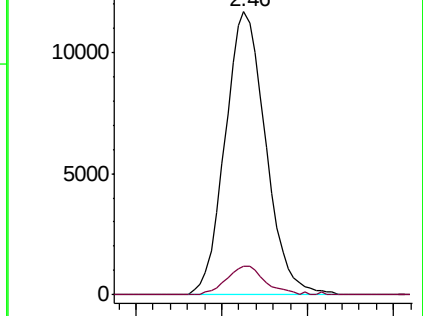
76 100

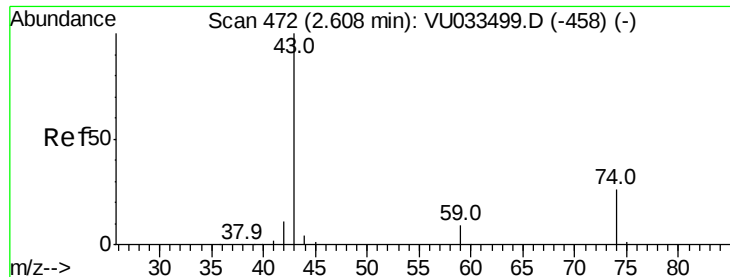
78 10.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033501.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033501.D (-334) (-)





#15

Methyl Acetate

Concen: 2.647 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 6889

Ion Ratio Lower Upper

43 100

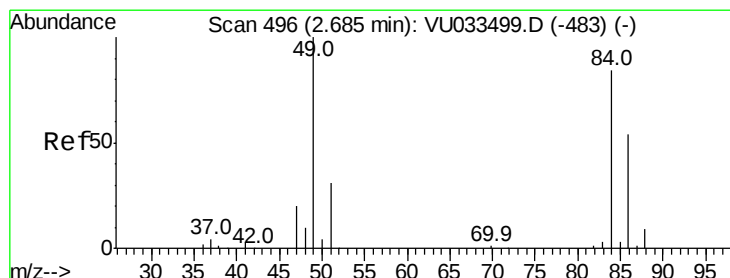
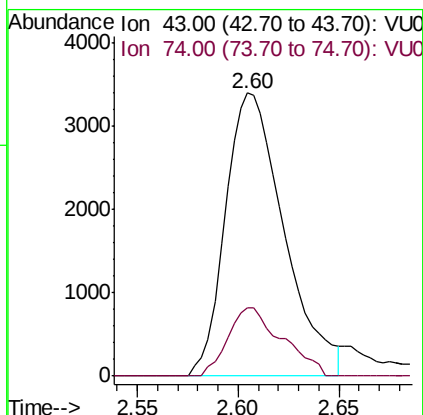
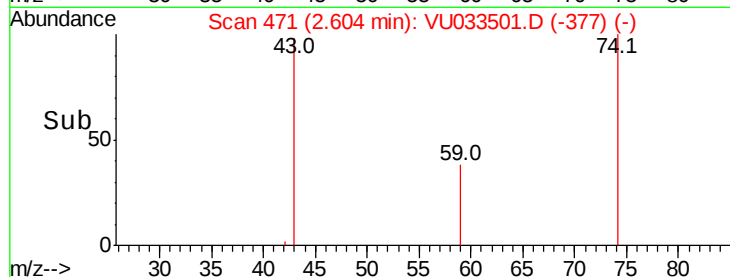
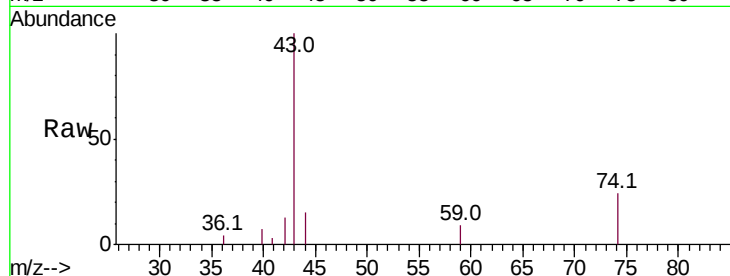
74 22.3 20.1 30.1

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#16

Methylene chloride

Concen: 2.931 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

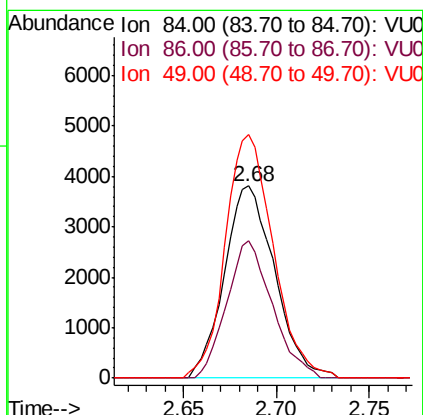
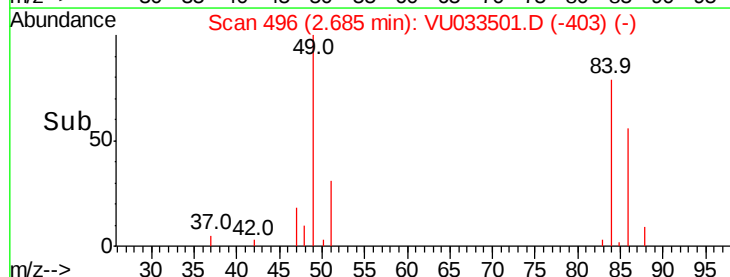
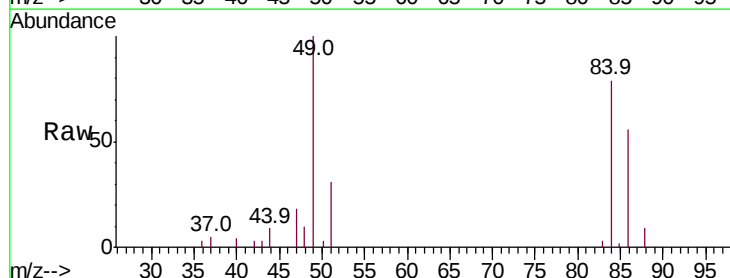
Tgt Ion: 84 Resp: 7195

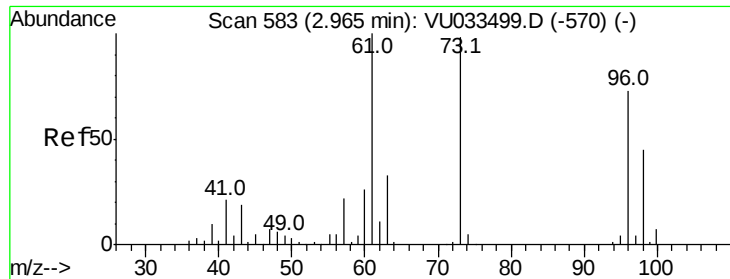
Ion Ratio Lower Upper

84 100

86 71.5 45.7 84.9

49 126.8 85.0 158.0





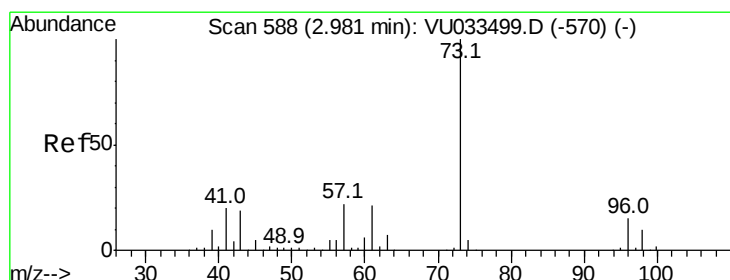
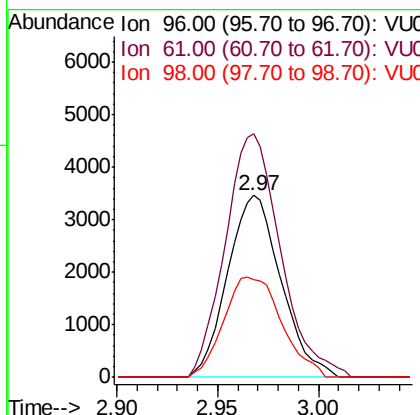
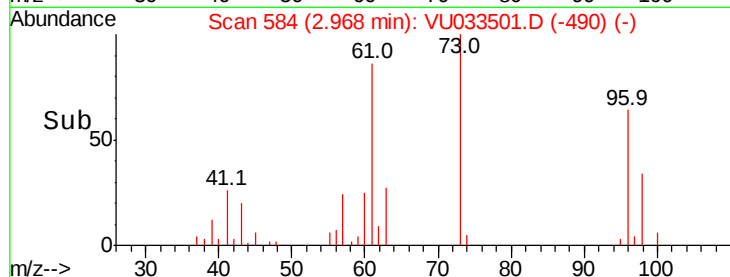
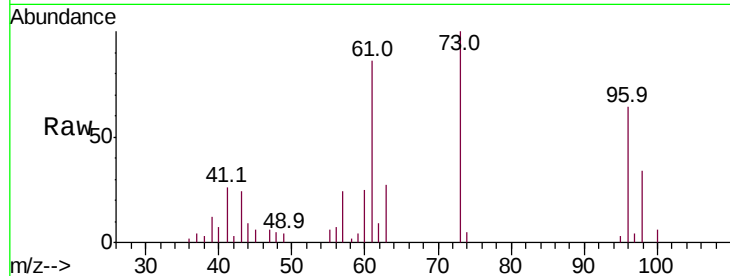
#17
trans-1,2-Dichloroethene
Concen: 2.850 ug/L
RT: 2.97 min Scan# 584
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 96 Resp: 6416
Ion Ratio Lower Upper
96 100
61 133.8 98.3 182.5
98 53.5 44.3 82.3

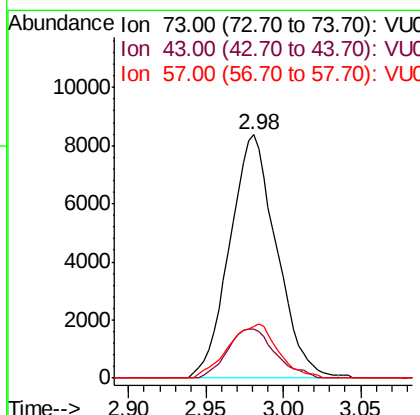
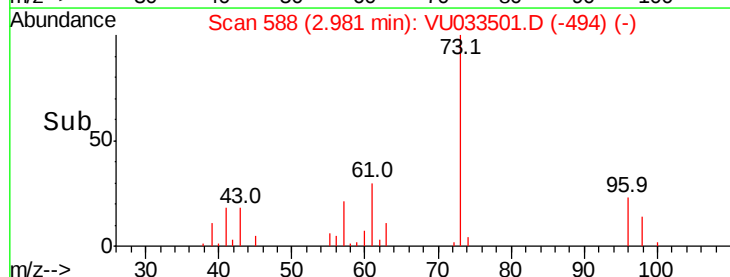
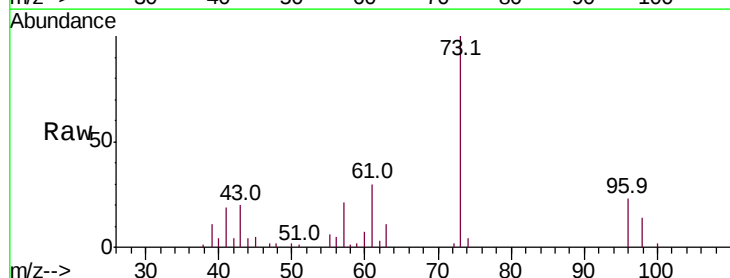
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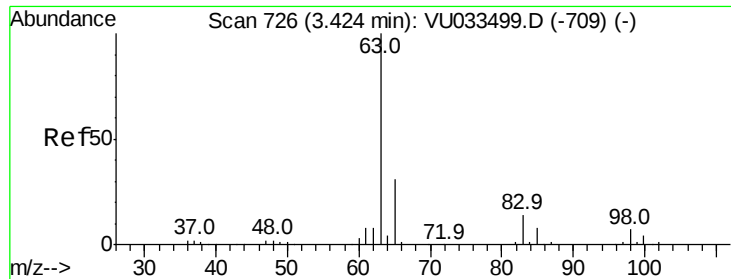
MMDadoda
7/31/2019 10:33:54 AM



#18
Methyl tert-butyl Ether
Concen: 2.563 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion: 73 Resp: 17599
Ion Ratio Lower Upper
73 100
43 20.6 15.4 23.2
57 23.6 17.4 26.2





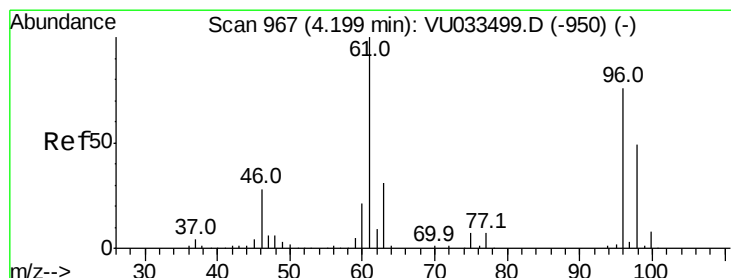
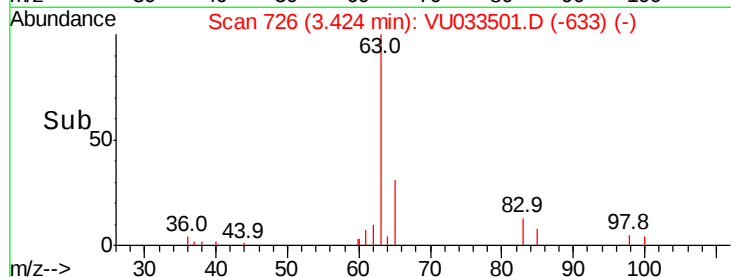
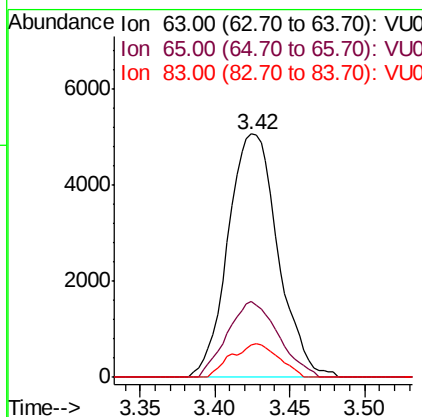
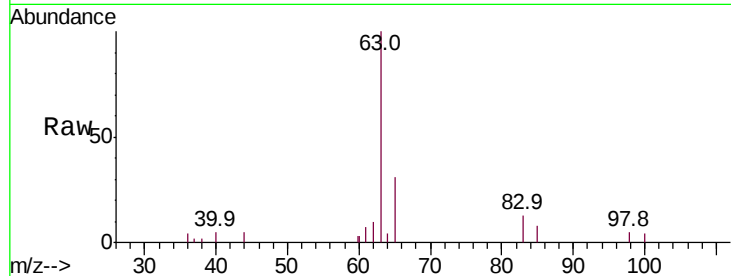
#19
 1,1-Dichloroethane
 Concen: 2.780 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion:	63	Resp:	11749
Ion	Ratio	Lower	Upper
63	100		
65	31.1	22.0	40.8
83	13.1	9.5	17.7

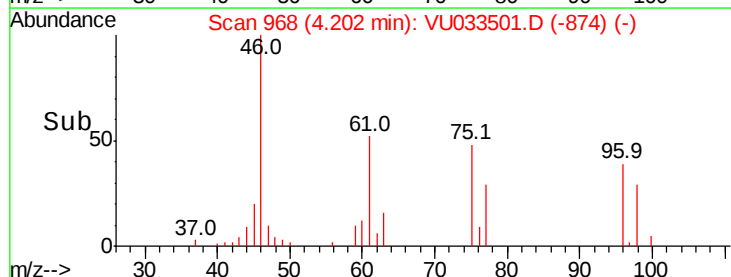
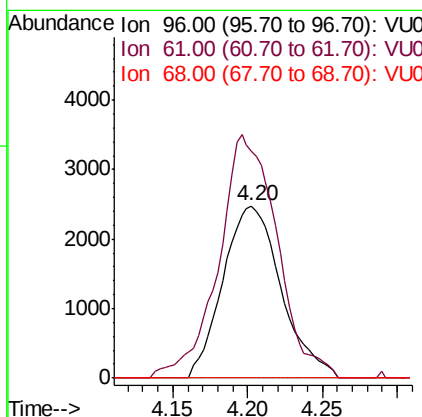
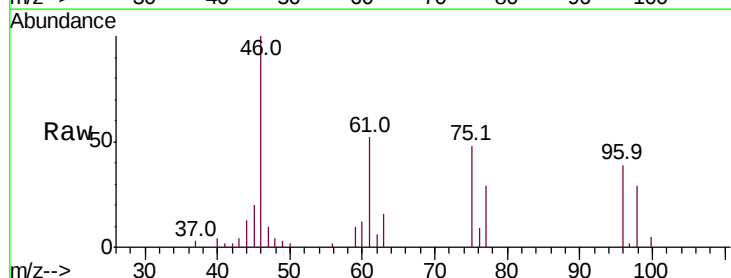
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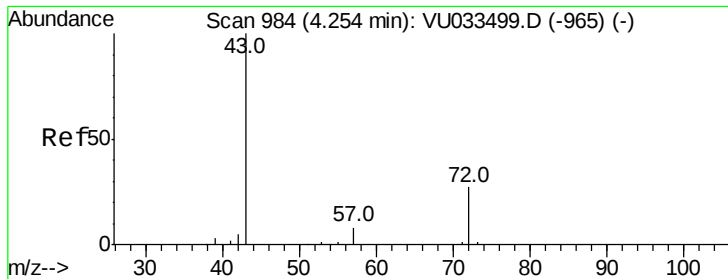
MMDadoda
 7/31/2019 10:33:54 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.660 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion:	96	Resp:	6721
Ion	Ratio	Lower	Upper
96	100		
61	131.9	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.138 ug/L m

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 10028

Ion Ratio Lower Upper

43 100

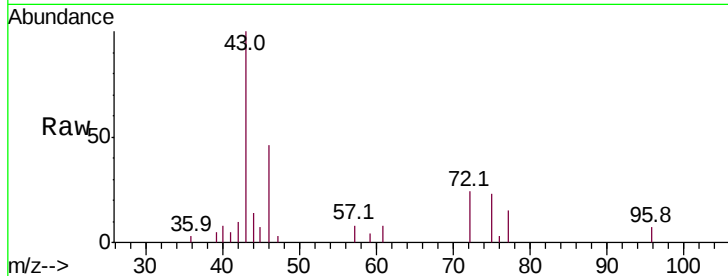
72 0.4 14.2 42.6#

Manual Integrations

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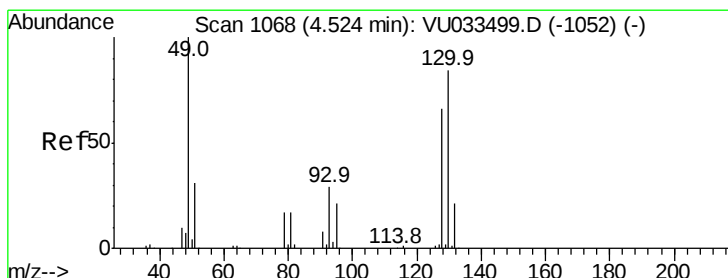
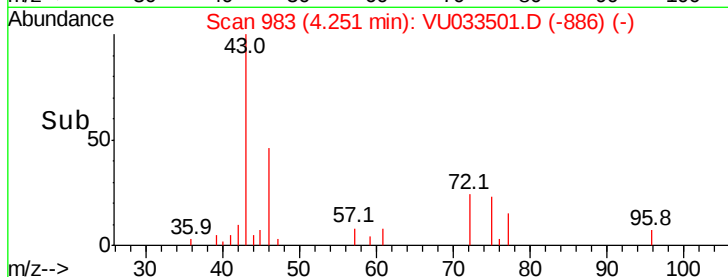
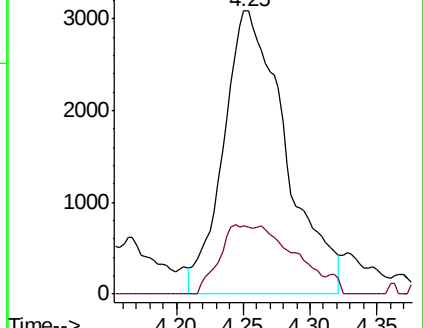
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU033499.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU033499.D (-965) (-)



#23

Bromochloromethane

Concen: 2.583 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion:128 Resp: 3406

Ion Ratio Lower Upper

128 100

49 187.0 108.4 201.2

130 140.3 89.7 166.5

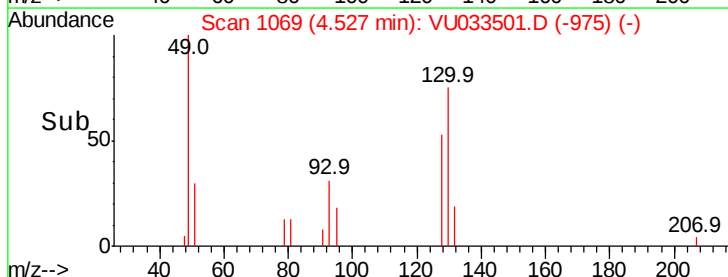
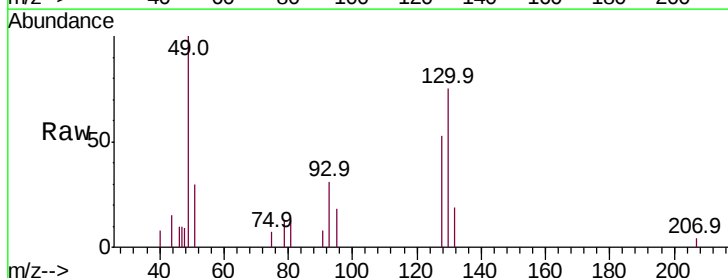
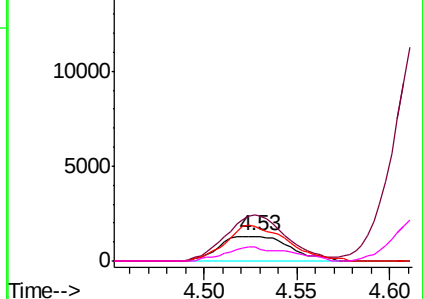
51 55.9 38.9 58.3

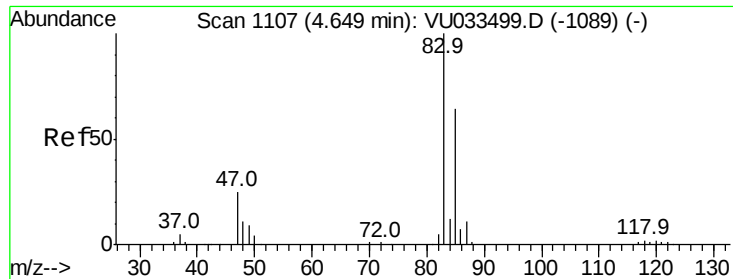
Abundance Ion 128.00 (127.70 to 128.70): VU033499.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033499.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033499.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033499.D (-1052) (-)





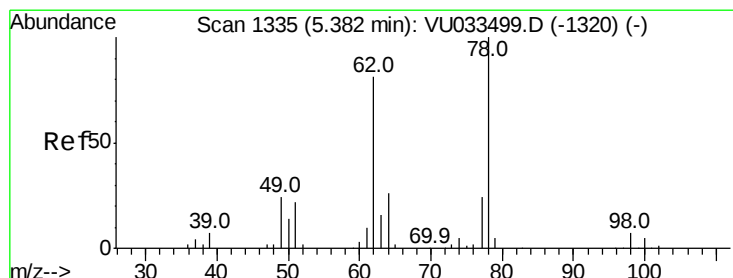
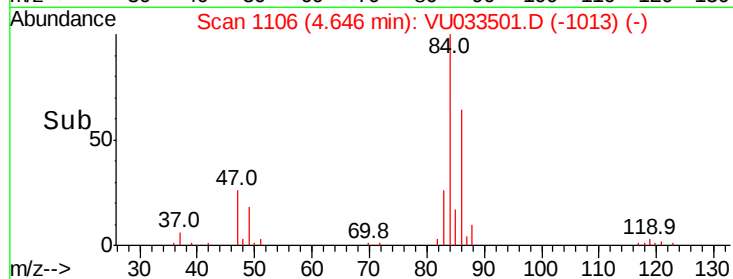
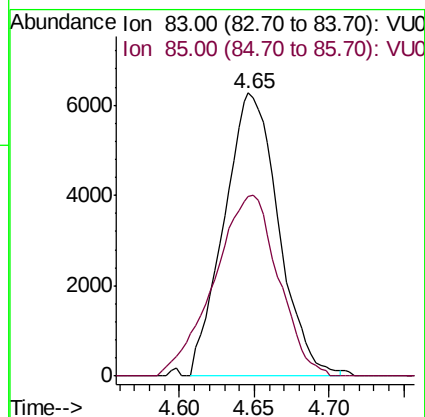
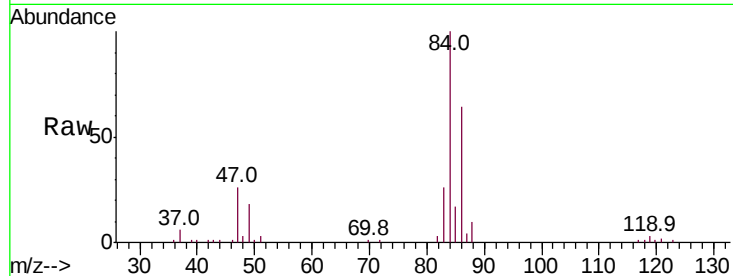
#25
Chloroform
Concen: 3.568 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 83 Resp: 15866
Ion Ratio Lower Upper
83 100
85 63.6 45.6 84.8

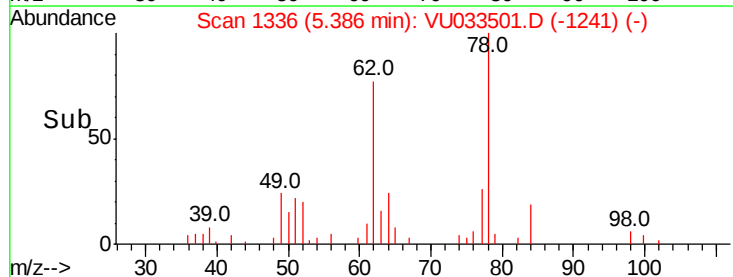
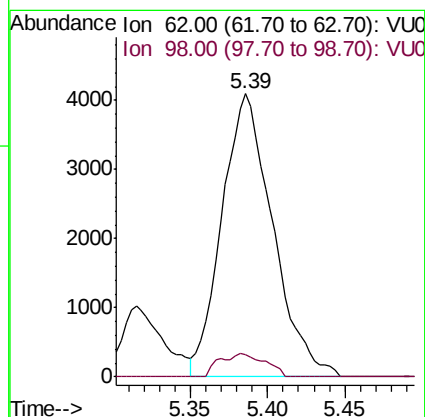
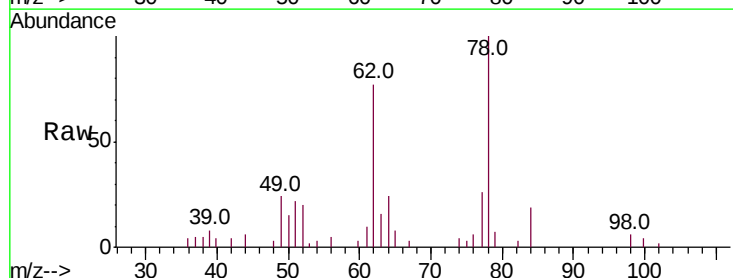
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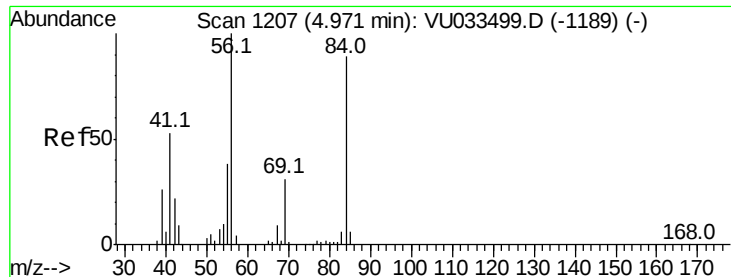
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.731 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion: 62 Resp: 9351
Ion Ratio Lower Upper
62 100
98 8.0 7.2 10.8





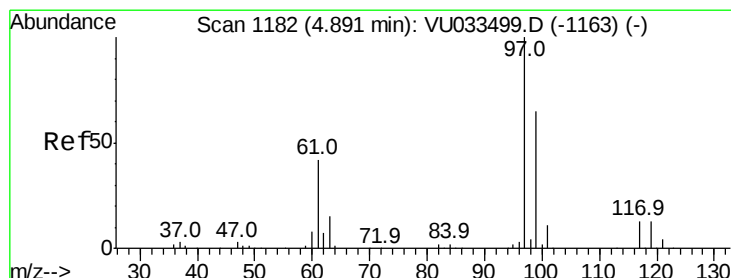
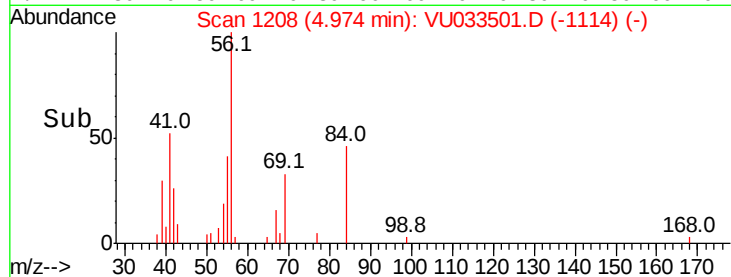
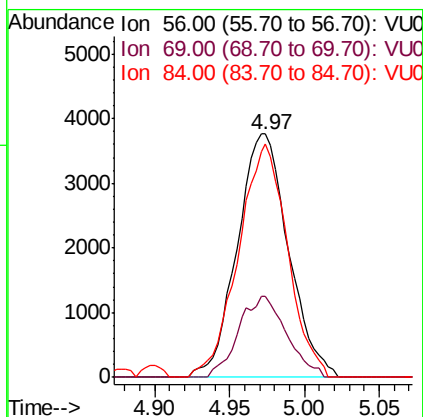
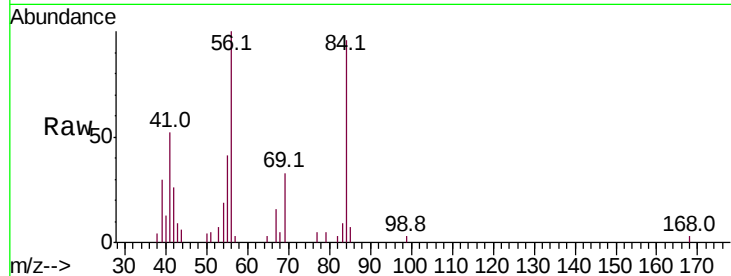
#29
Cyclohexane
Concen: 2.515 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	20.4	25.0	37.6#
84	92.0	71.6	107.4

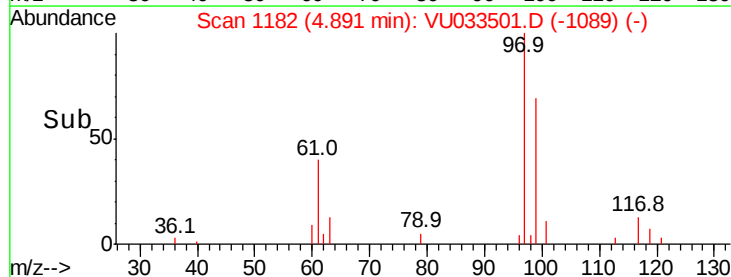
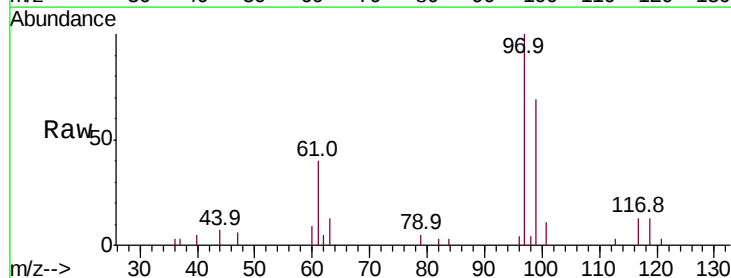
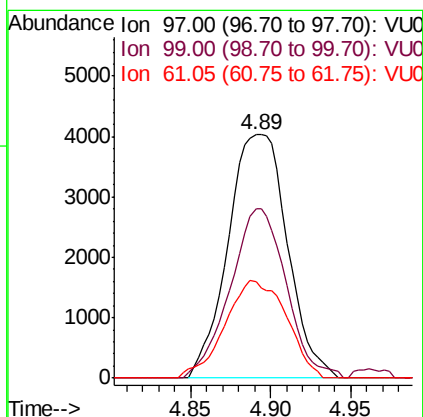
Manual Integrations
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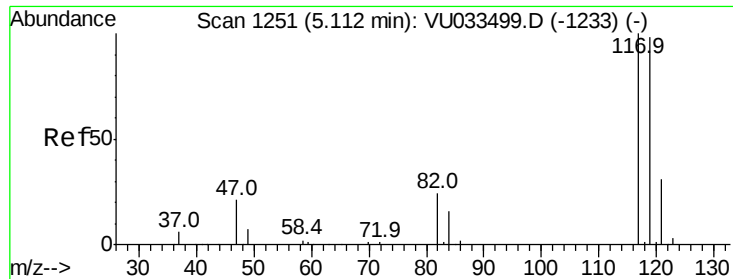
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.734 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.1	76.7
61	41.6	35.5	53.3





#31

Carbon tetrachloride

Concen: 2.561 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:117 Resp: 8371

Ion Ratio Lower Upper

117 100

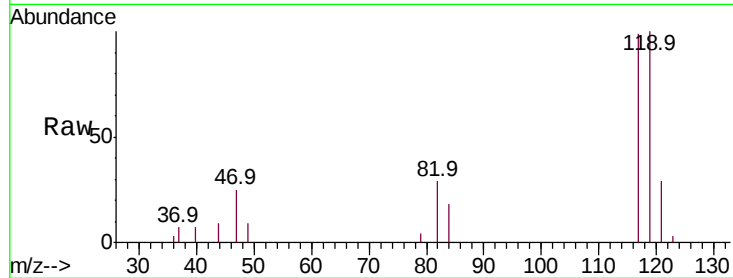
119 98.1 77.0 115.4

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.11

4000

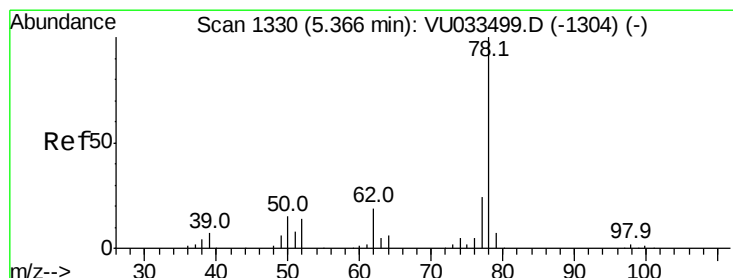
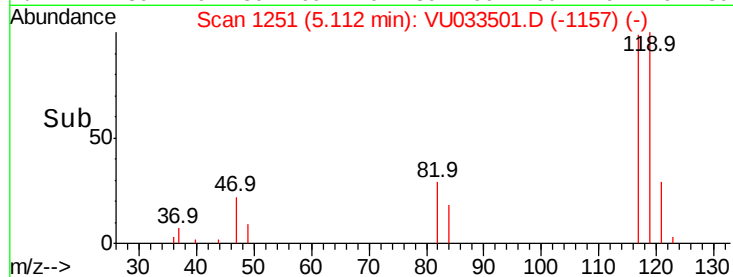
3000

2000

1000

0

Time-->



#33

Benzene

Concen: 2.777 ug/L

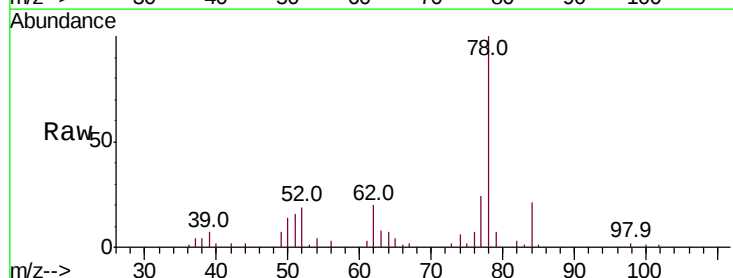
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion: 78 Resp: 26125



Abundance Ion 78.00 (77.70 to 78.70): VU0

12000

10000

8000

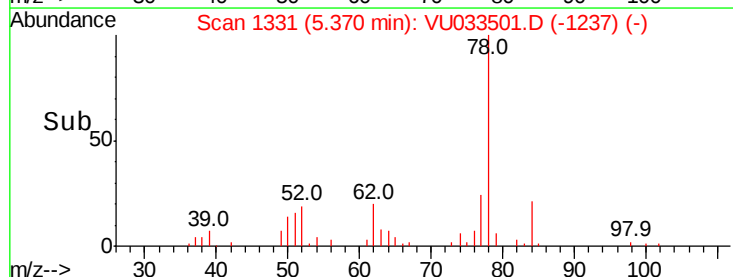
6000

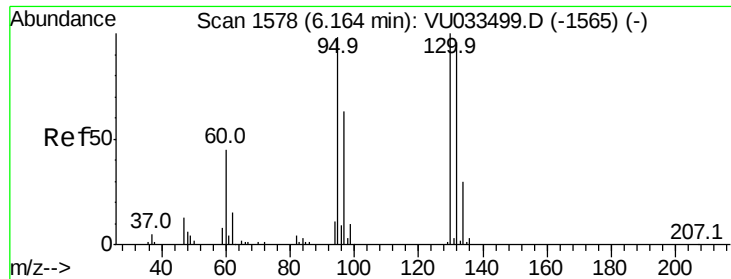
4000

2000

0

Time-->





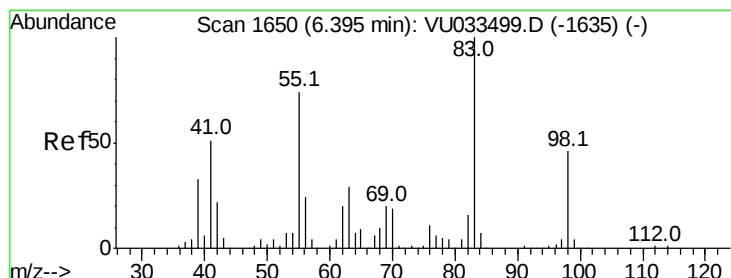
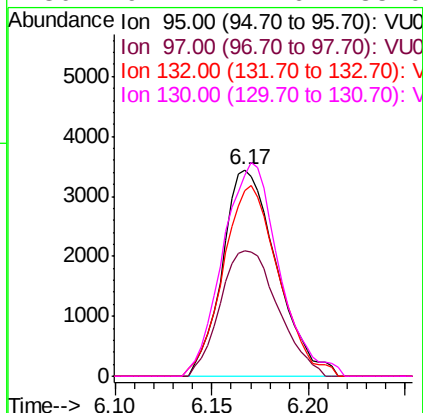
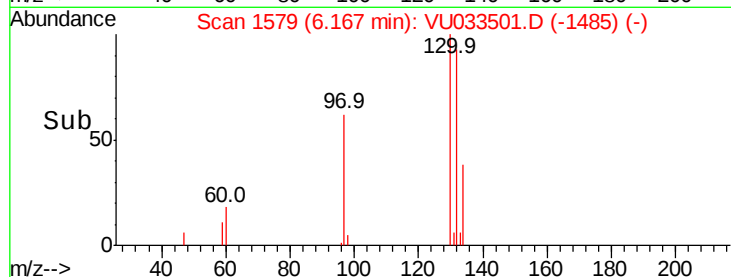
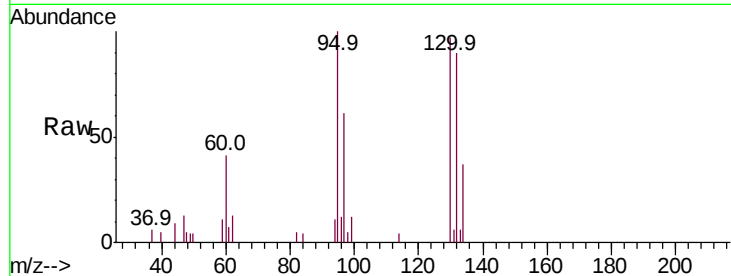
#34
 Trichloroethene
 Concen: 2.705 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 95 Resp: 6714
 Ion Ratio Lower Upper
 95 100
 97 60.8 44.7 83.1
 132 90.1 66.8 124.0
 130 97.4 71.6 133.0

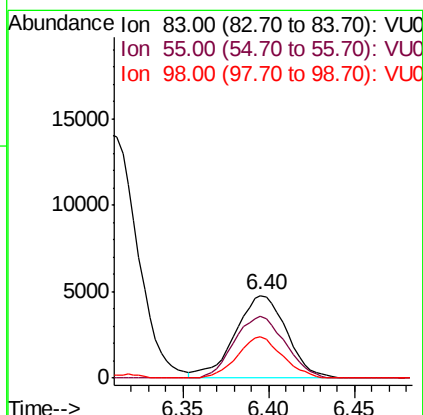
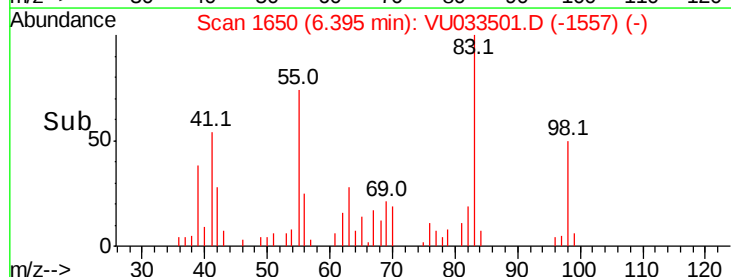
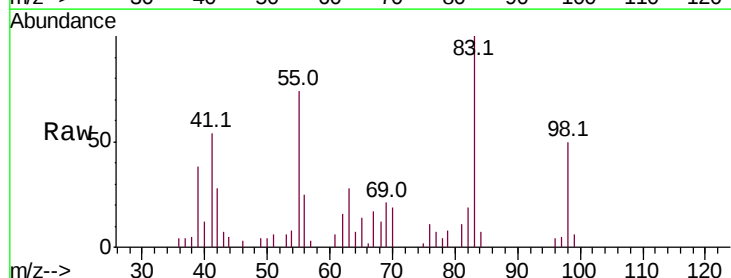
Manual Integrations
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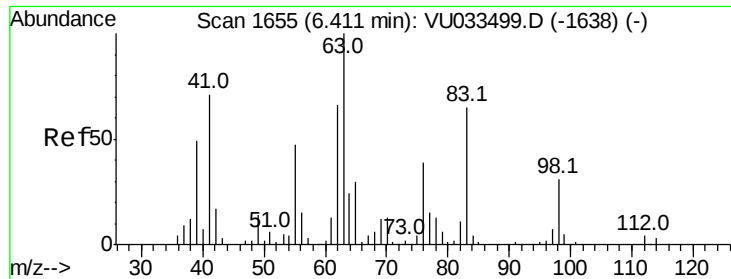
MMDadoda
 7/31/2019 10:33:54 AM



#35
 Methylcyclohexane
 Concen: 2.568 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 83 Resp: 9946
 Ion Ratio Lower Upper
 83 100
 55 73.6 60.2 90.4
 98 43.7 36.5 54.7





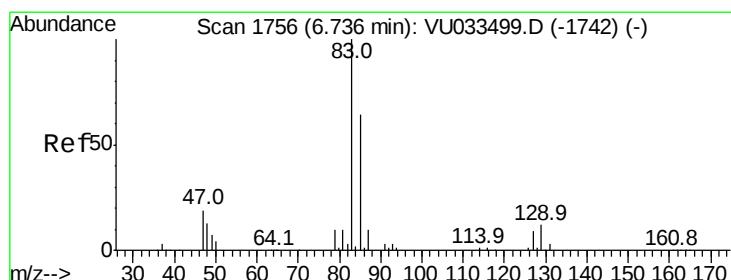
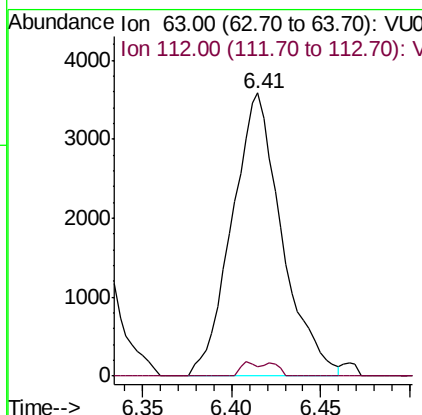
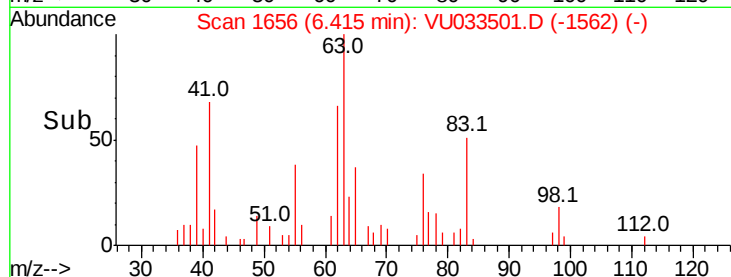
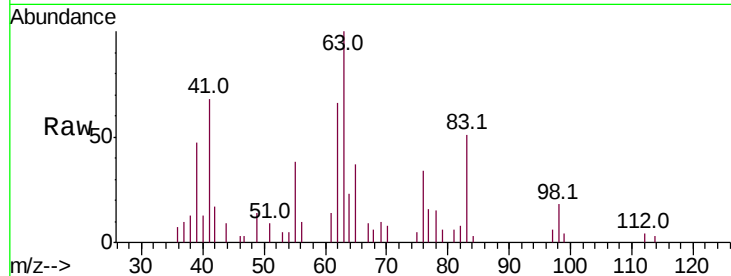
#37
 1,2-Dichloropropane
 Concen: 2.769 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 6974
 Ion Ratio Lower Upper
 63 100
 112 1.6 3.0 4.6#

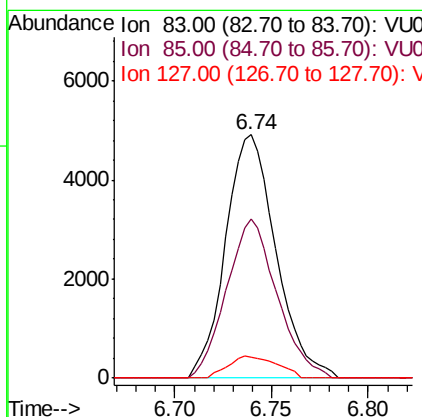
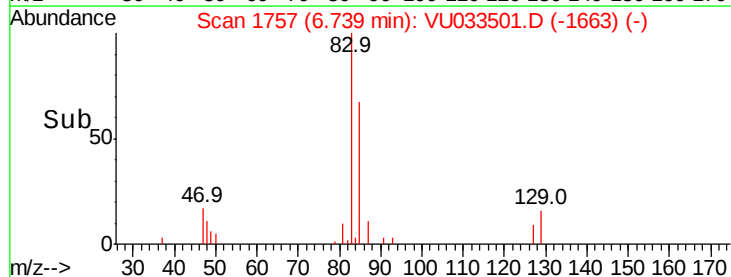
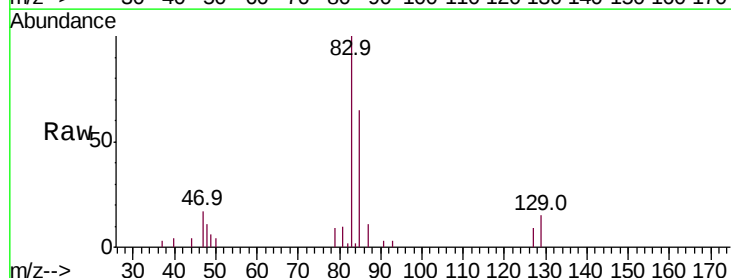
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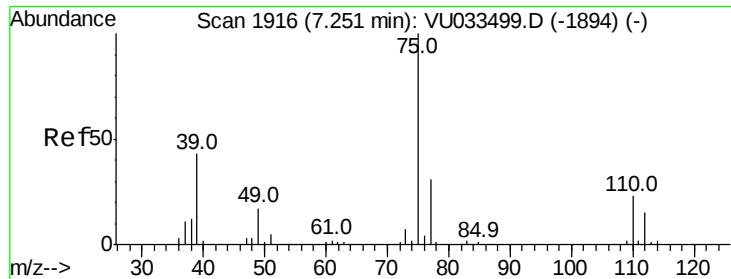
MMDadoda
 7/31/2019 10:33:54 AM



#38
 Bromodichloromethane
 Concen: 2.731 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 83 Resp: 8892
 Ion Ratio Lower Upper
 83 100
 85 65.4 45.1 83.9
 127 8.7 7.2 10.8





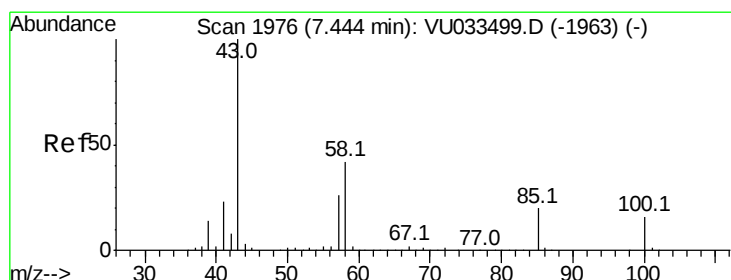
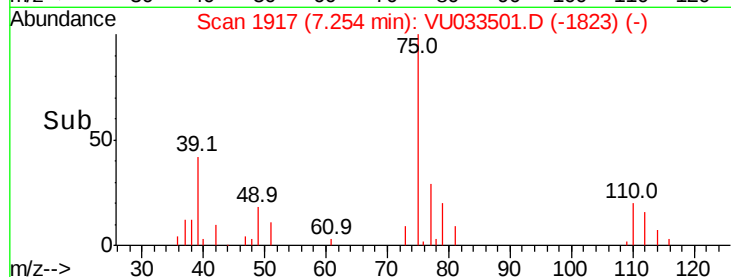
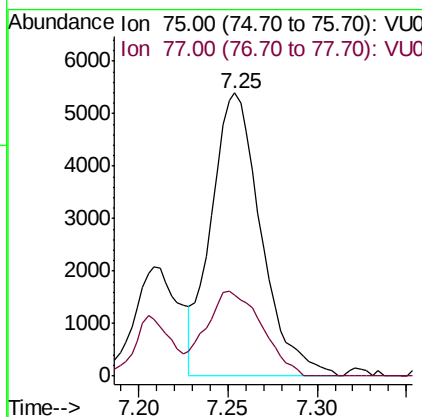
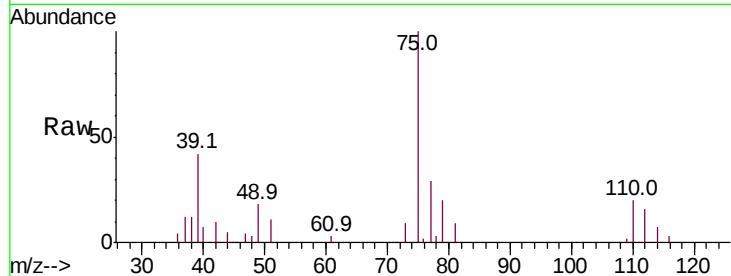
#39
 cis-1,3-Dichloropropene
 Concen: 2.663 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion: 75 Resp: 10467
 Ion Ratio Lower Upper
 75 100
 77 28.5 22.3 41.5

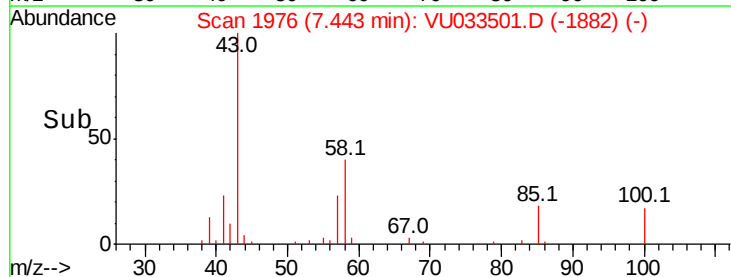
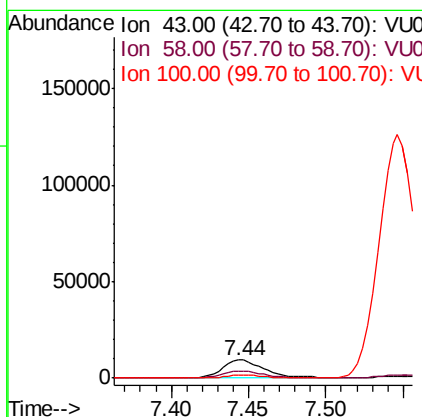
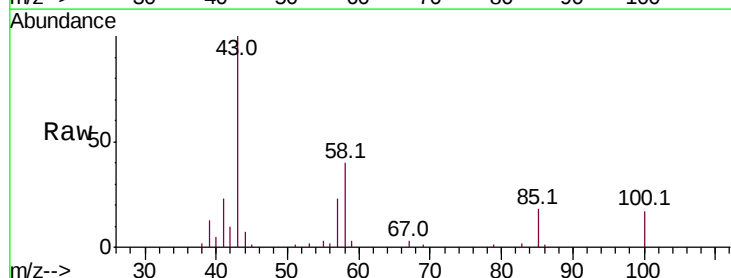
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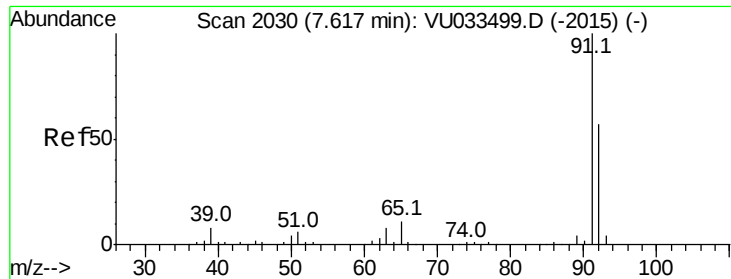
MMDadoda
 7/31/2019 10:33:54 AM



#40
 4-Methyl-2-pentanone
 Concen: 5.100 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 43 Resp: 17734
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.8 49.2
 100 15.4 12.9 19.3





#42

Toluene

Concen: 2.712 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 27442

Ion Ratio Lower Upper

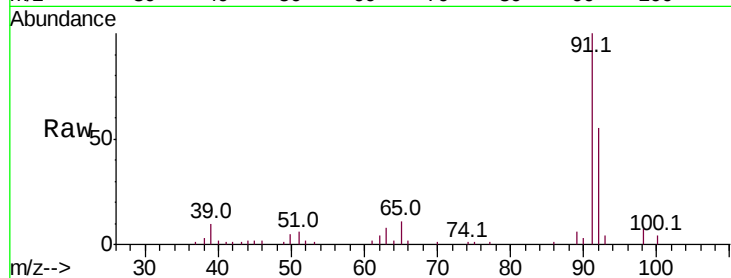
91 100

92 54.6 40.2 74.6

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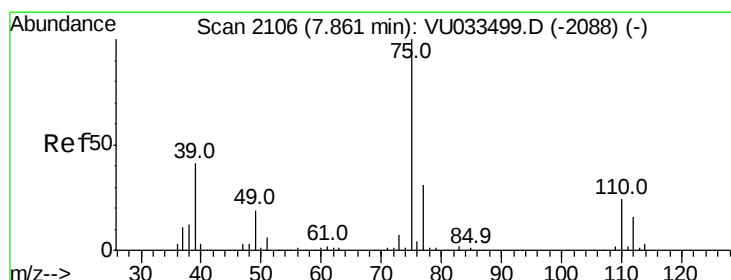
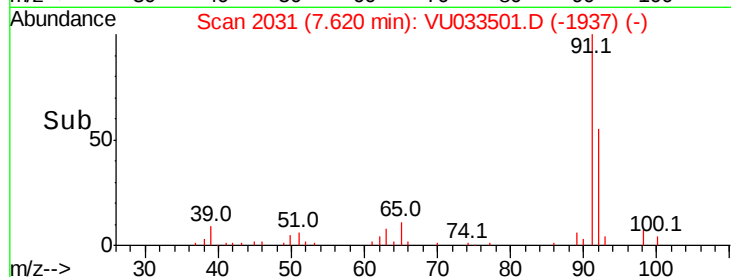
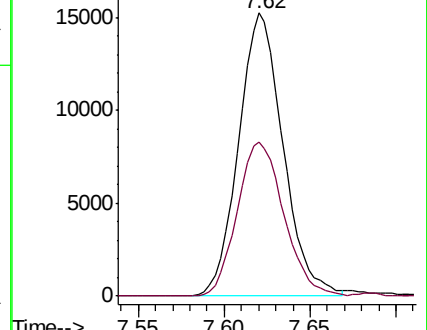
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VU033499.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU033499.D (-2015) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.761 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033501.D

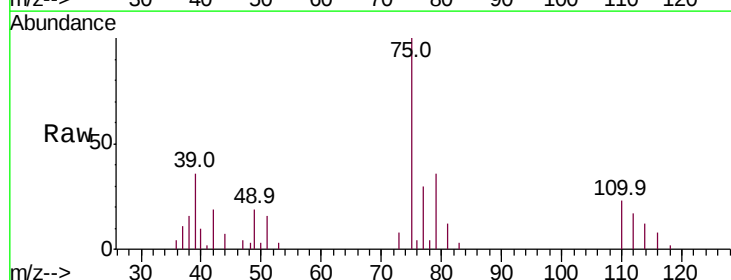
Acq: 30 Jul 2019 18:49

Tgt Ion: 75 Resp: 9809

Ion Ratio Lower Upper

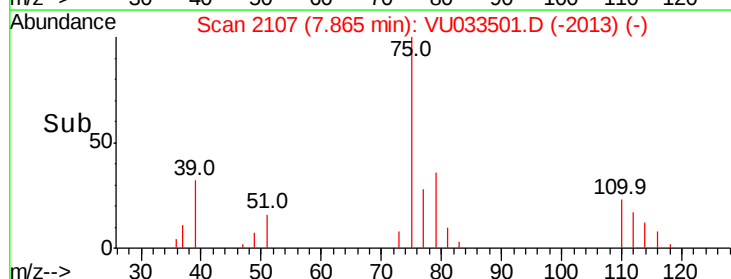
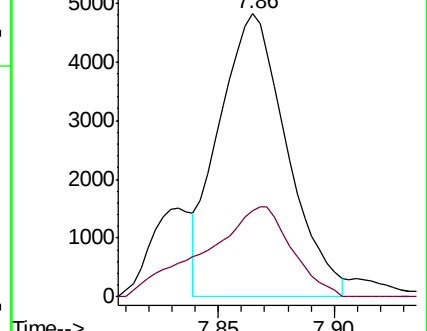
75 100

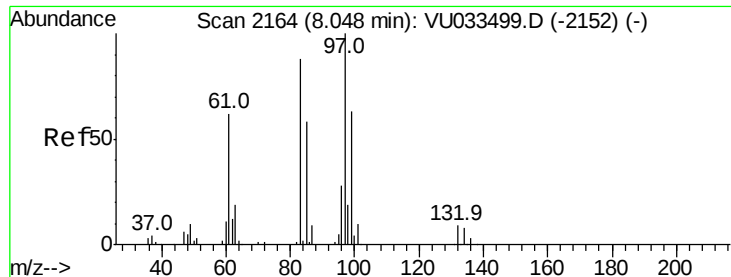
77 30.5 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033499.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033499.D (-2088) (-)





#45

1,1,2-Trichloroethane

Concen: 2.700 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 97 Resp: 6455

Ion Ratio Lower Upper

97 100

99 60.6 44.4 82.4

83 88.8 61.5 114.1

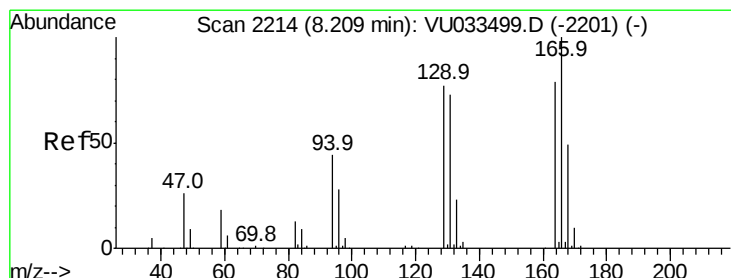
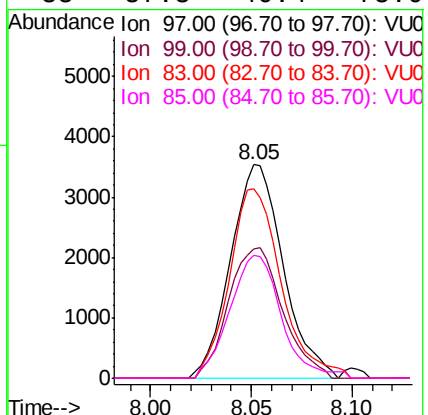
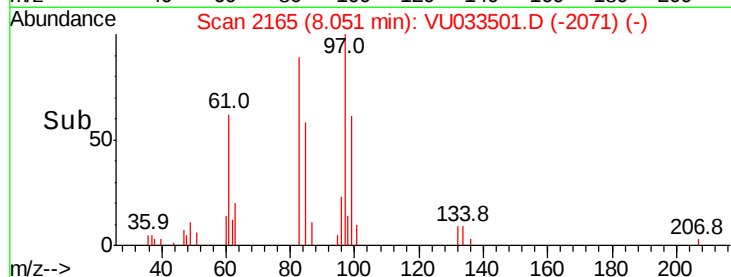
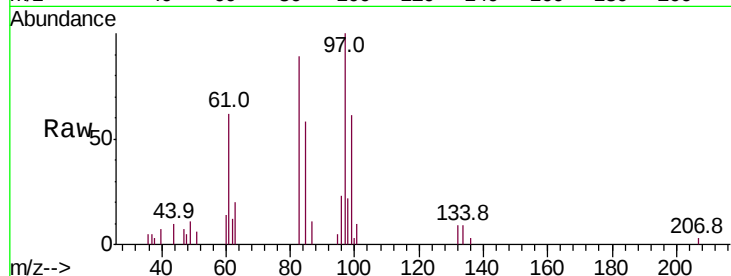
85 57.8 40.4 75.0

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#46

Tetrachloroethene

Concen: 2.743 ug/L

RT: 8.22 min Scan# 2216

Delta R.T. 0.01 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion: 164 Resp: 5558

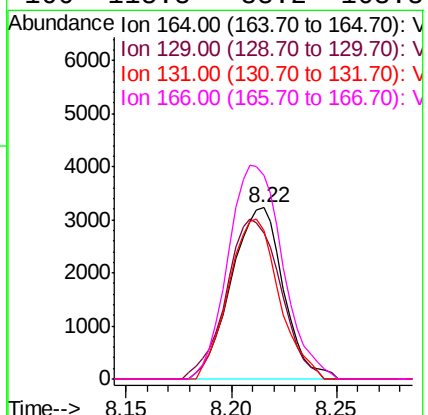
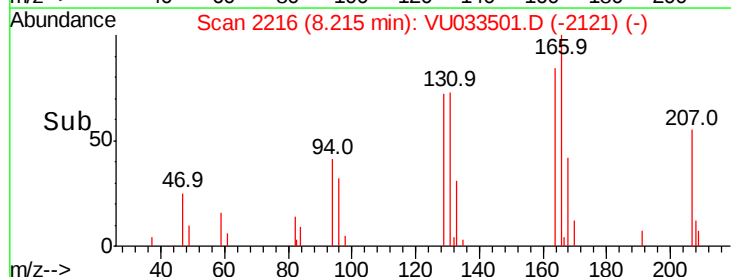
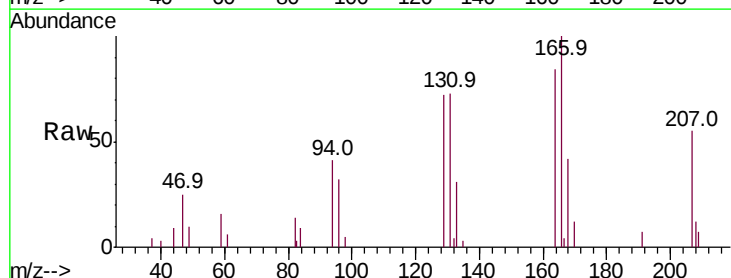
Ion Ratio Lower Upper

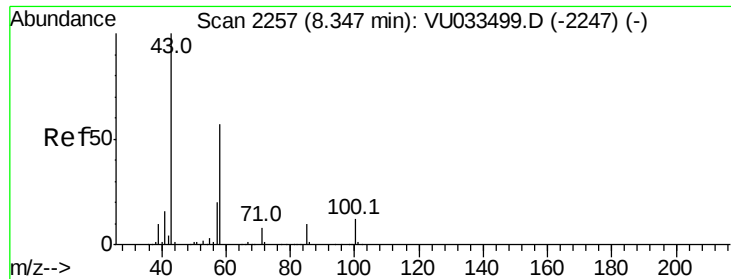
164 100

129 85.6 65.5 121.7

131 86.5 63.3 117.7

166 118.8 88.2 163.8





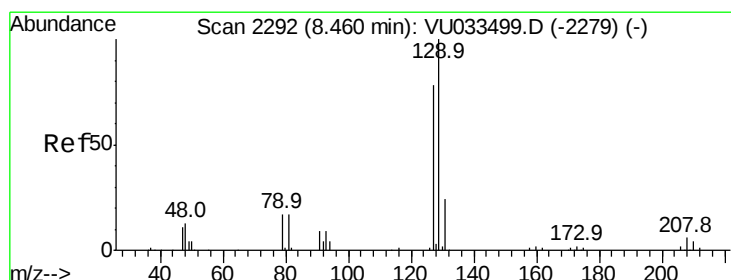
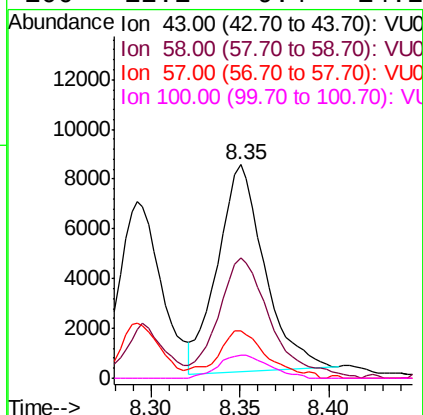
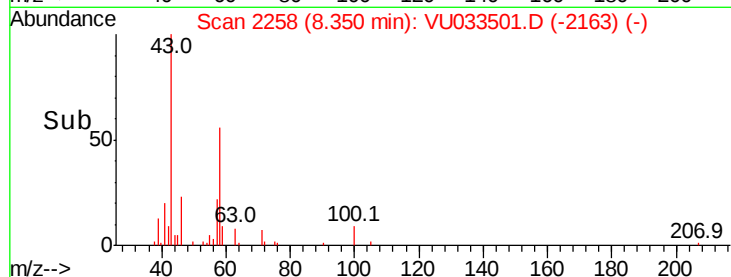
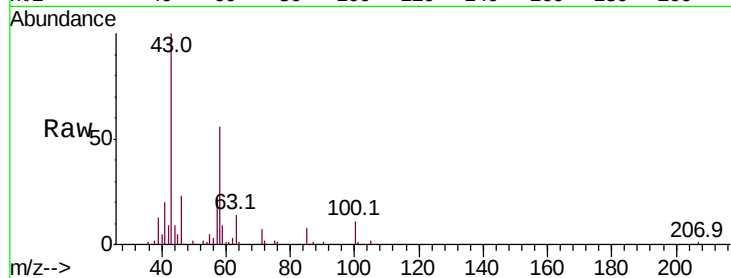
#48
2-Hexanone
Concen: 5.407 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	64.3	45.8	68.6
57	22.5	15.8	23.6
100	12.1	9.4	14.2

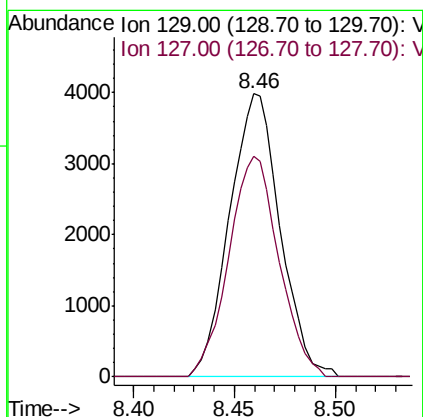
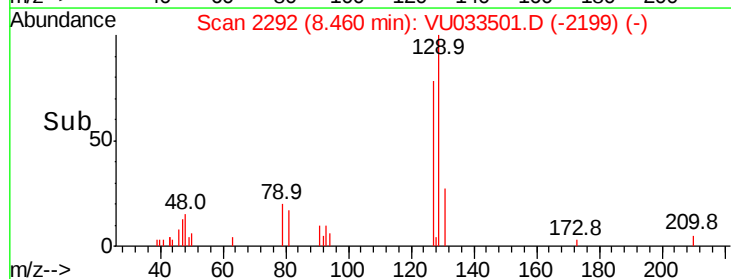
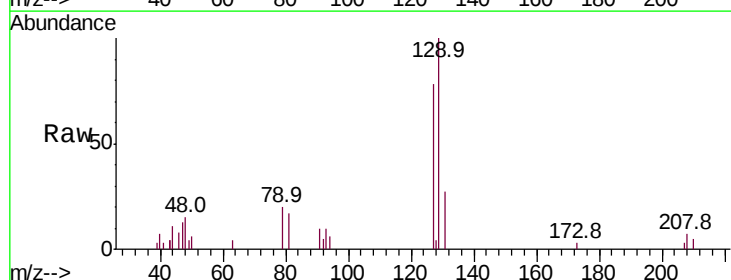
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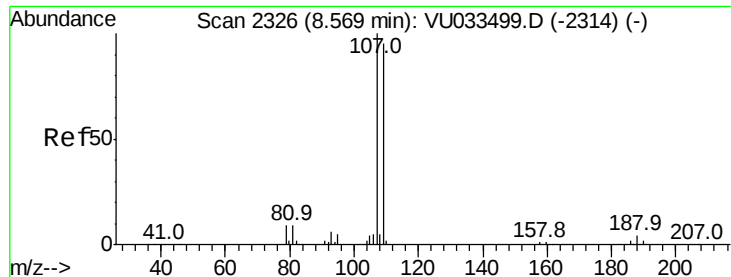
MMDadoda
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#49
Dibromochloromethane
Concen: 2.567 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	53.8	99.8





#50

1,2-Dibromoethane

Concen: 2.840 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

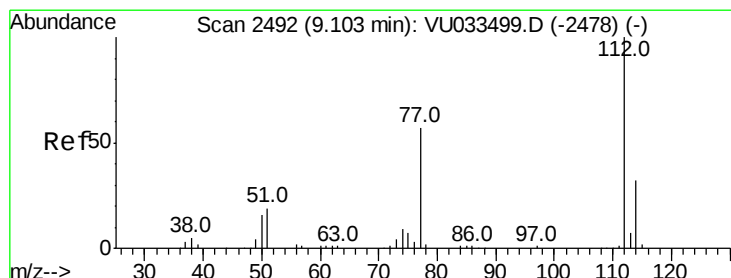
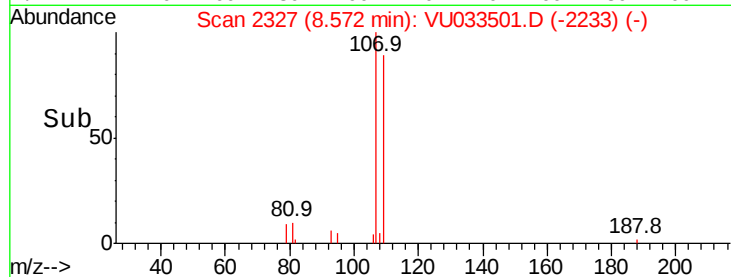
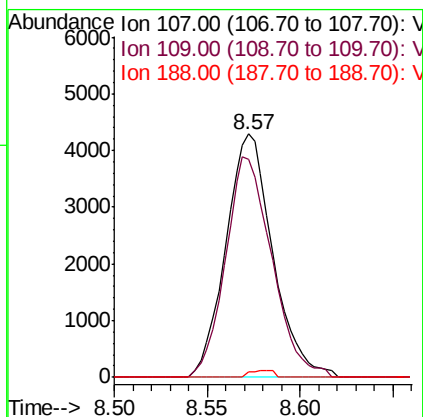
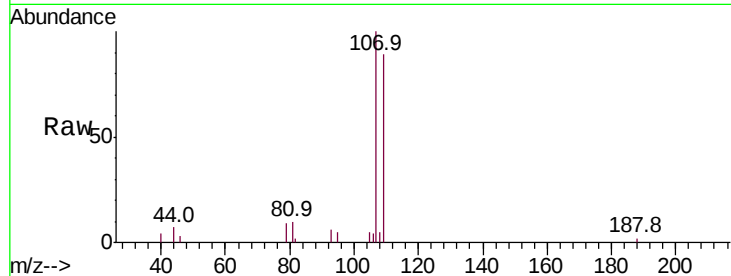
ClientSampleId :

MDL01

Tot Ion:	107	Resp:	7522
Ion Ratio	Lower	Upper	
107	100		
109	89.4	66.8	124.0
188	2.3	3.0	4.4#

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#51

Chlorobenzene

Concen: 2.675 ug/L

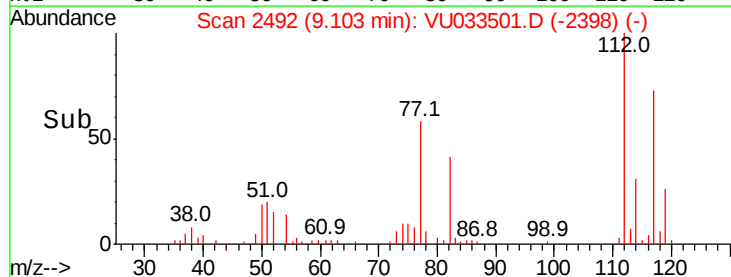
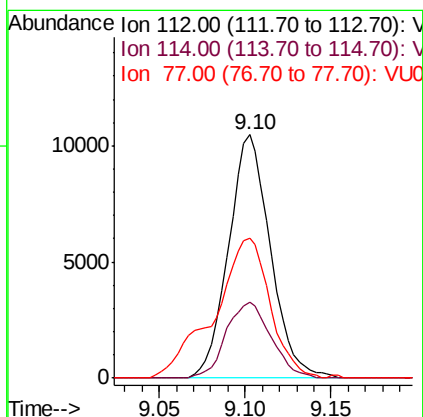
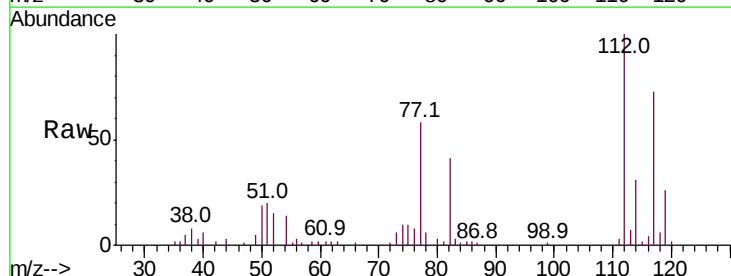
RT: 9.10 min Scan# 2492

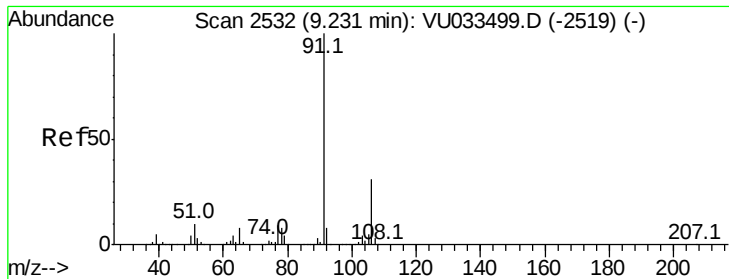
Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion:	112	Resp:	17718
Ion Ratio	Lower	Upper	
112	100		
114	31.4	22.3	41.5
77	57.7	45.6	68.4





#52

Ethylbenzene

Concen: 2.486 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 27081

Ion Ratio Lower Upper

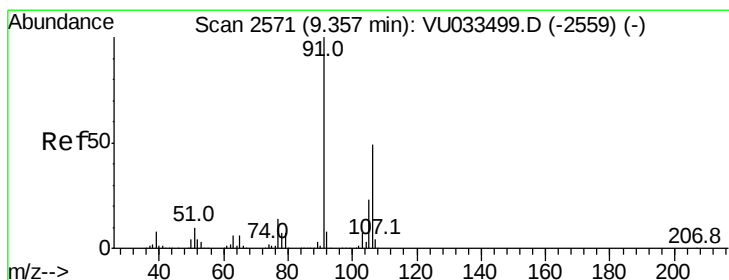
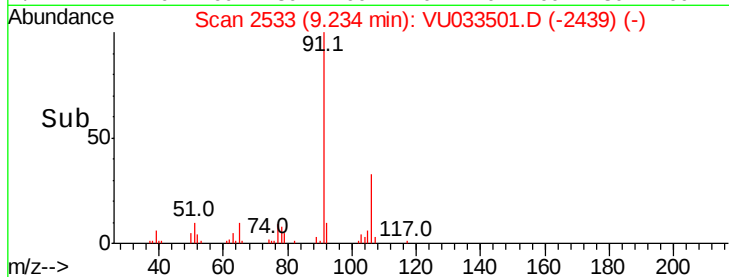
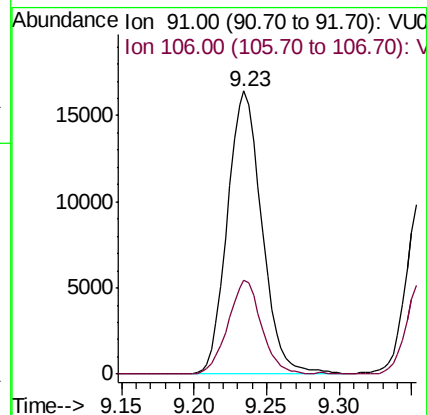
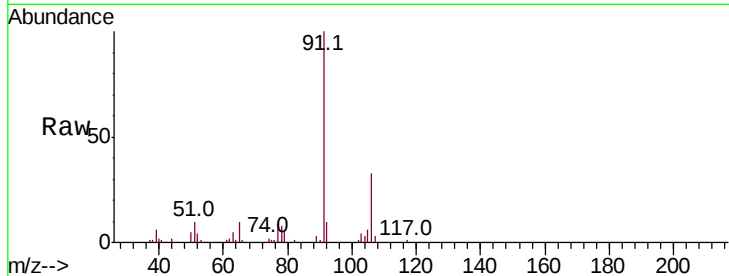
91 100

106 33.1 22.2 41.2

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#53

m,p-Xylene

Concen: 2.527 ug/L

RT: 9.36 min Scan# 2573

Delta R.T. 0.01 min

Lab File: VU033501.D

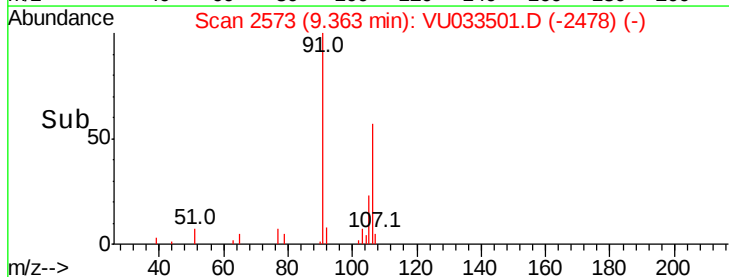
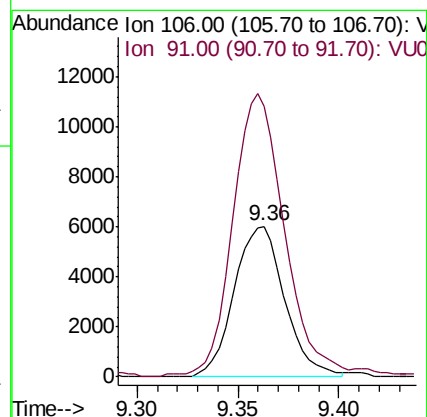
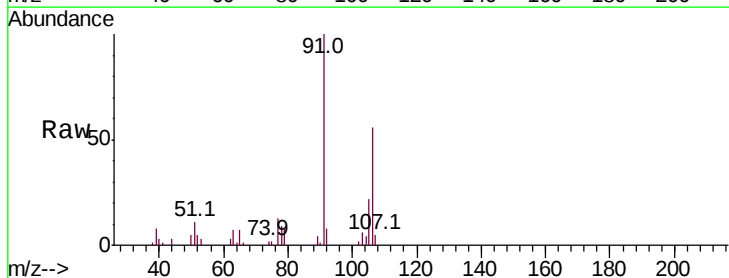
Acq: 30 Jul 2019 18:49

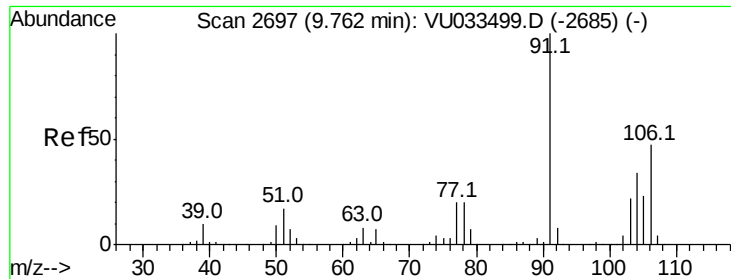
Tgt Ion: 106 Resp: 10569

Ion Ratio Lower Upper

106 100

91 180.1 143.0 265.6





#54

o-xylene

Concen: 2.348 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion:106 Resp: 9527

Ion Ratio Lower Upper

106 100

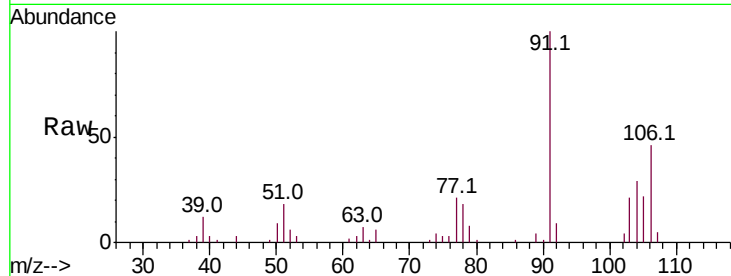
91 216.8 148.4 275.6

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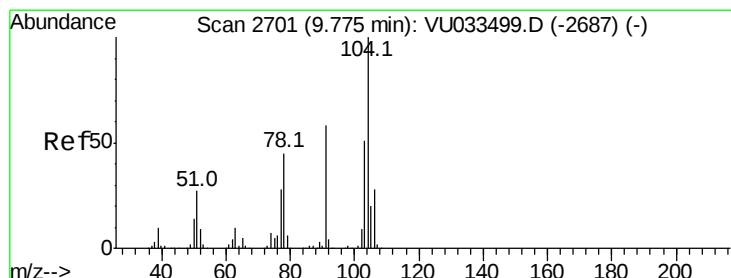
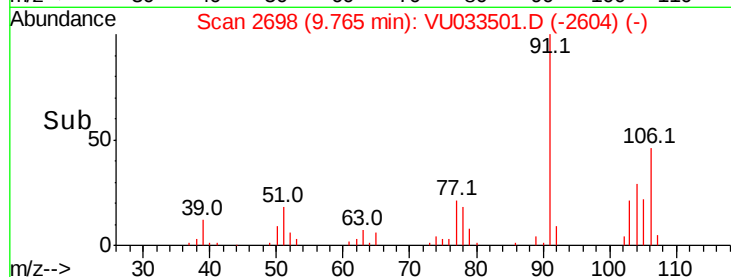
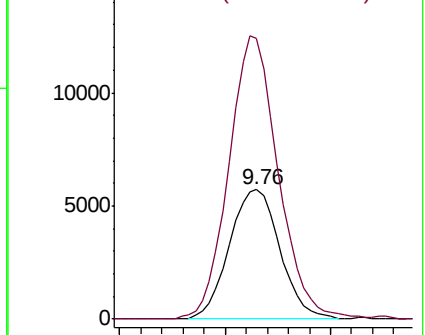
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.130 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033501.D

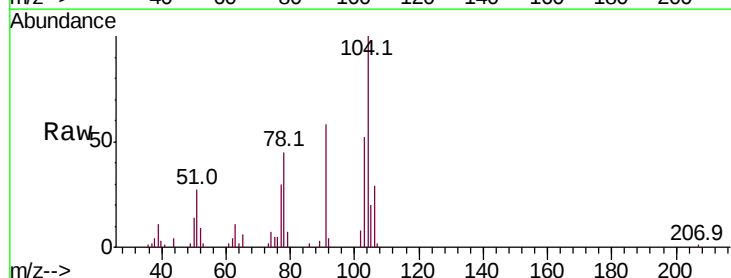
Acq: 30 Jul 2019 18:49

Tgt Ion:104 Resp: 14680

Ion Ratio Lower Upper

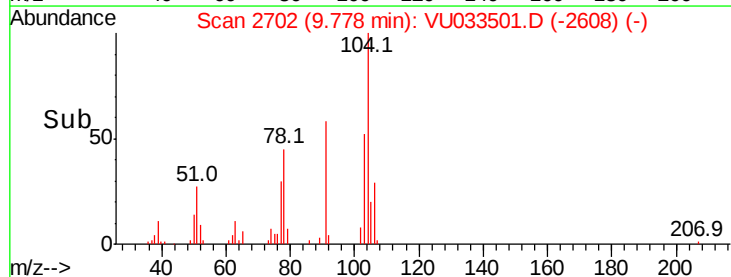
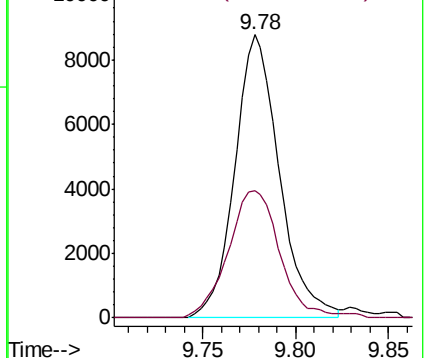
104 100

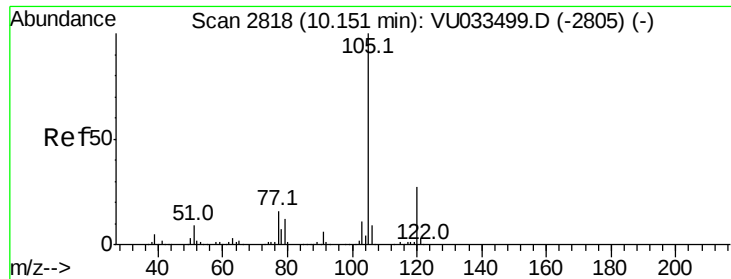
78 45.0 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





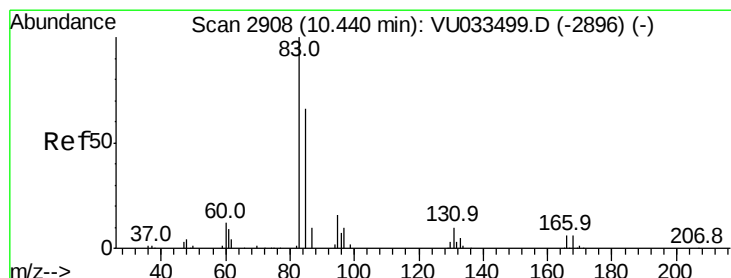
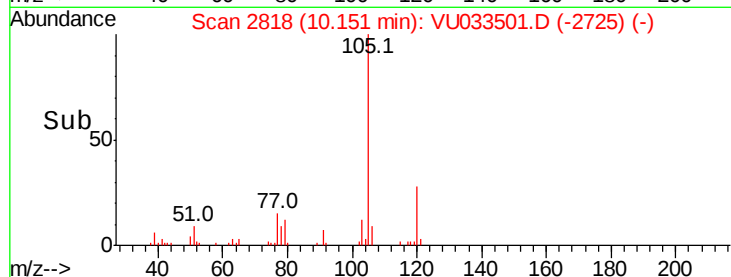
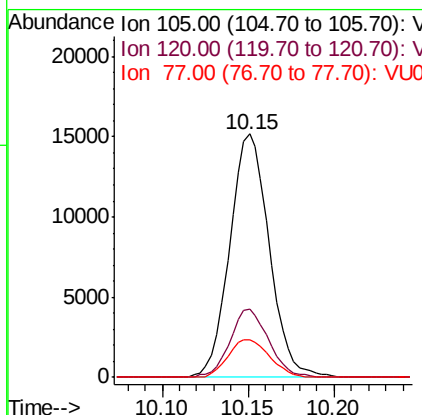
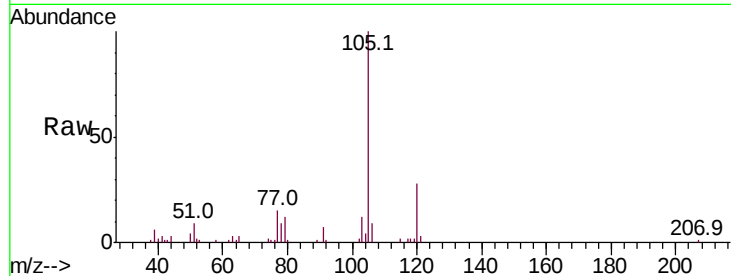
#56
Isopropylbenzene
Concen: 2.294 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.4	32.0
77	16.3	12.5	18.7

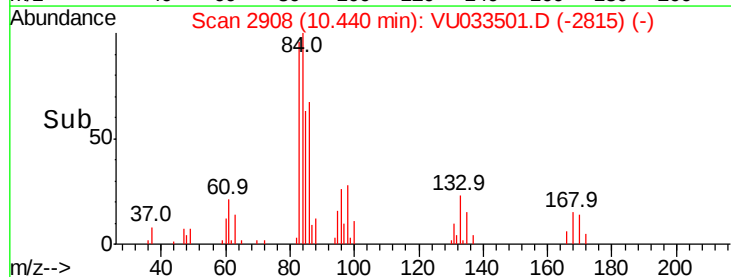
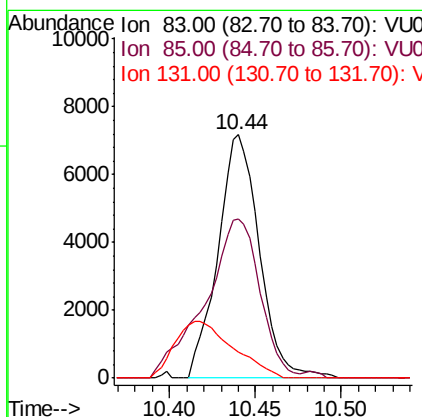
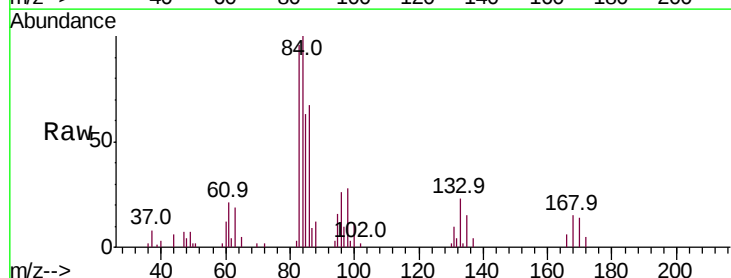
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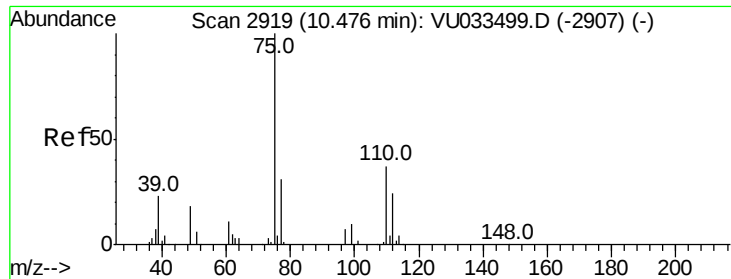
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#58
1,1,2,2-Tetrachloroethane
Concen: 2.811 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	45.4	84.4
131	14.8	7.9	11.9#





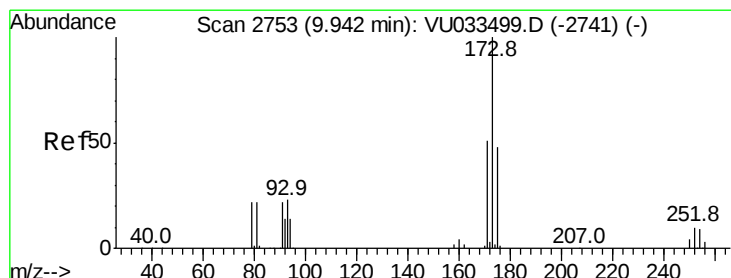
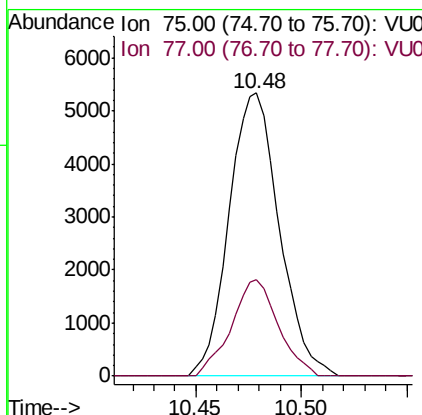
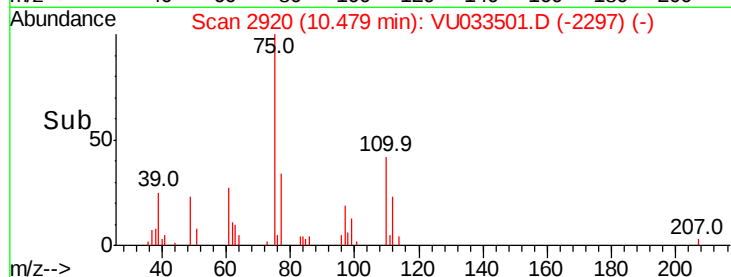
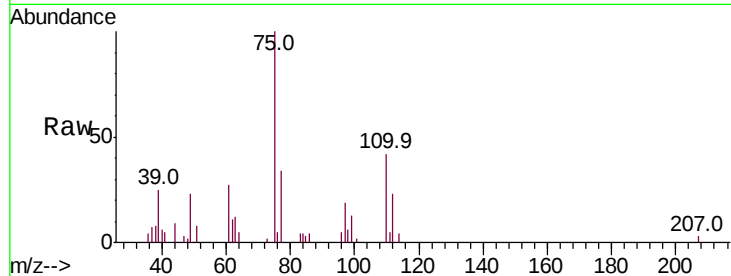
#59
1,2,3-Trichloropropane
Concen: 2.657 ug/L
RT: 10.48 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 75 Resp: 8833
Ion Ratio Lower Upper
75 100
77 31.8 25.8 38.6

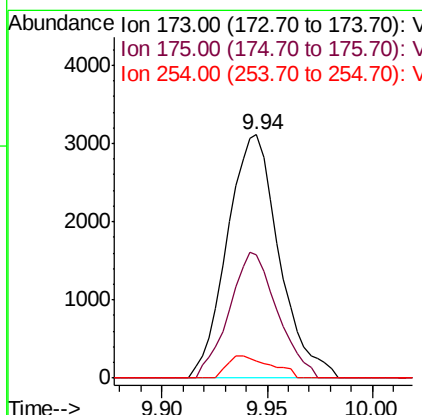
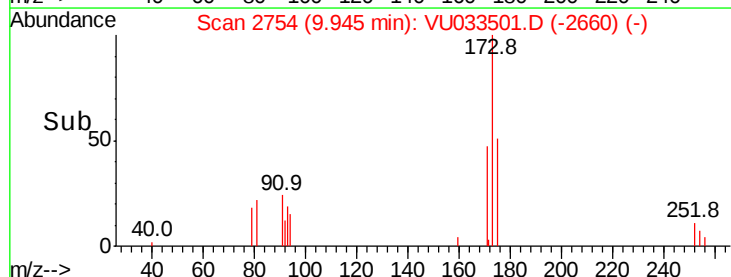
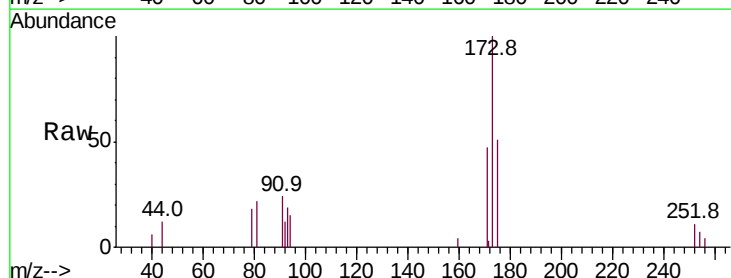
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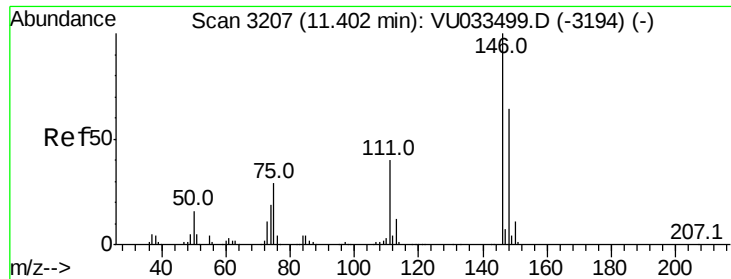
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#61
Bromoform
Concen: 2.745 ug/L
RT: 9.94 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion: 173 Resp: 5319
Ion Ratio Lower Upper
173 100
175 47.9 38.7 58.1
254 7.6 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 2.890 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:146 Resp: 14238

Ion Ratio Lower Upper

146 100

111 42.4 28.1 52.1

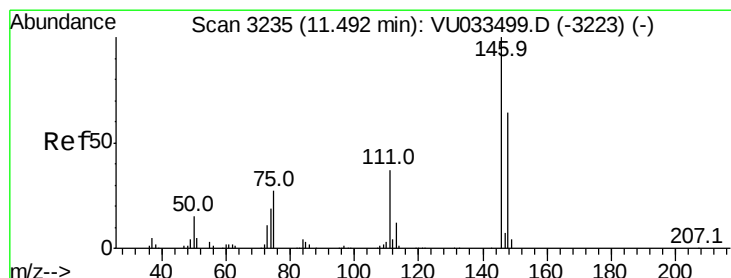
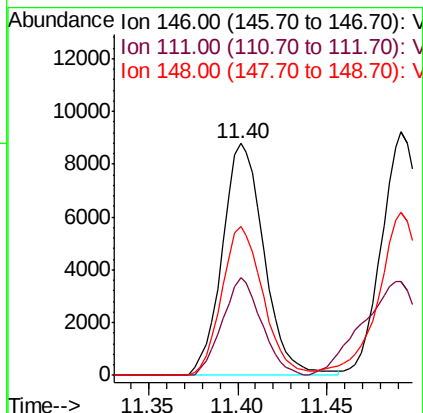
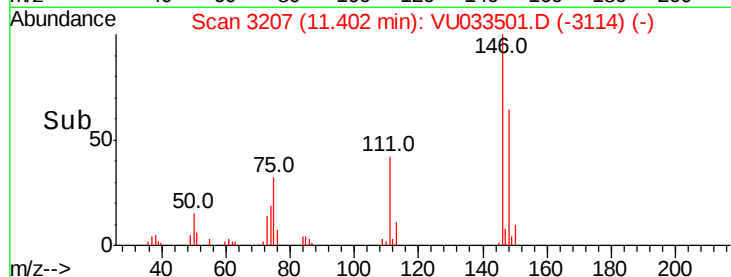
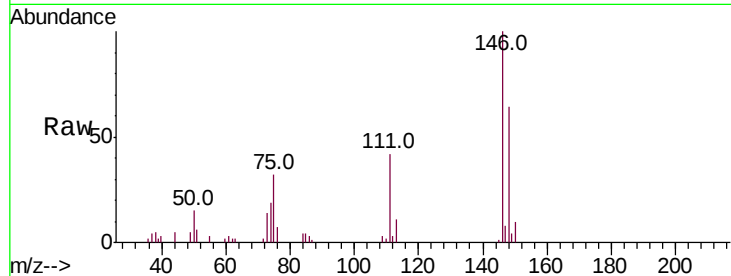
148 64.2 45.0 83.6

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#63

1,4-Dichlorobenzene

Concen: 2.957 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

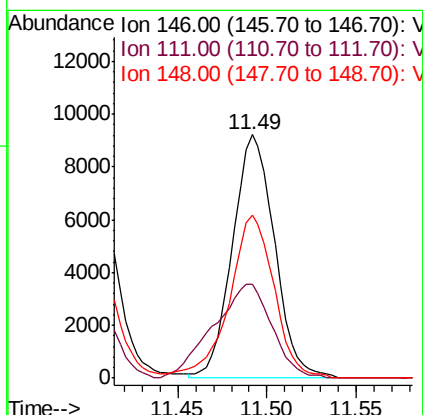
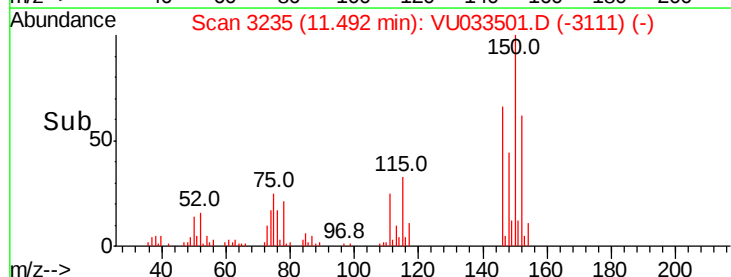
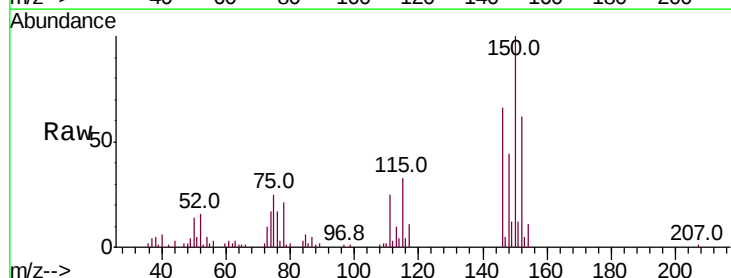
Tgt Ion:146 Resp: 15138

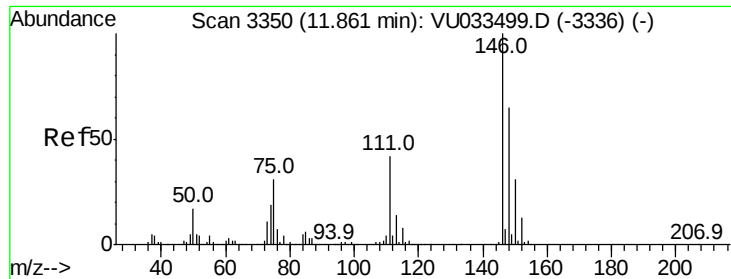
Ion Ratio Lower Upper

146 100

111 38.4 27.2 50.4

148 67.0 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 2.943 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:146 Resp: 14660

Ion Ratio Lower Upper

146 100

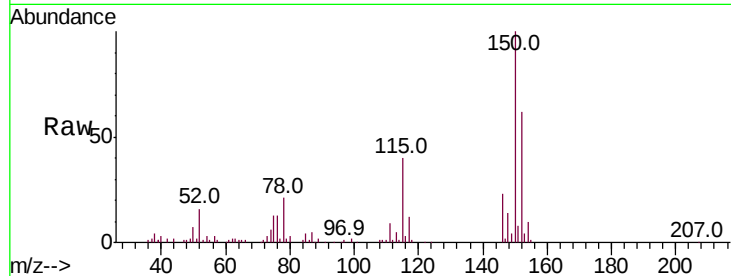
111 38.5 31.7 47.5

148 61.0 50.3 75.5

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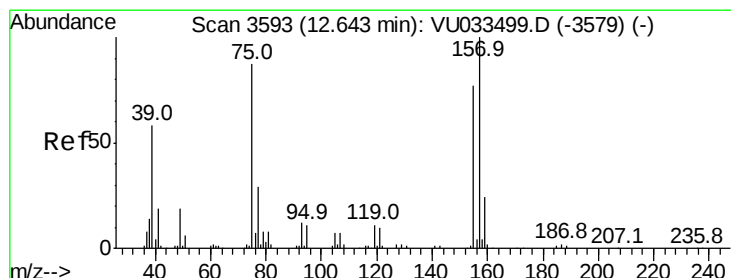
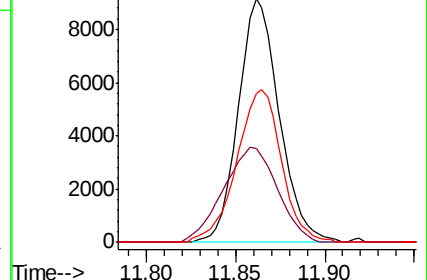
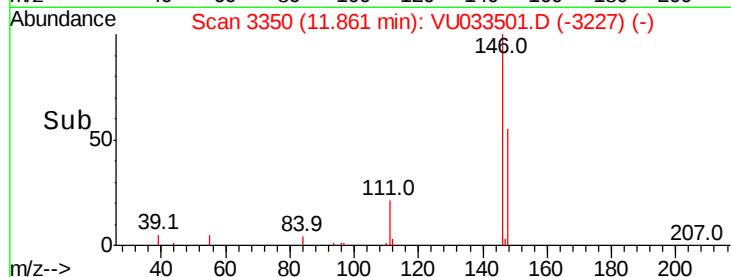
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.836 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. 0.01 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

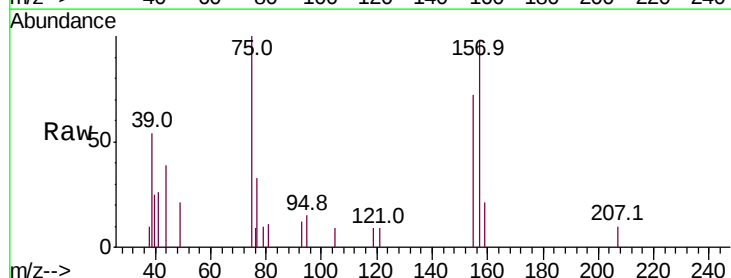
Tgt Ion: 75 Resp: 2610

Ion Ratio Lower Upper

75 100

155 71.5 69.4 104.0

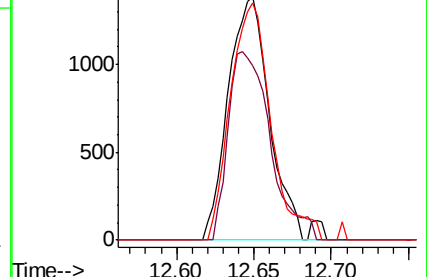
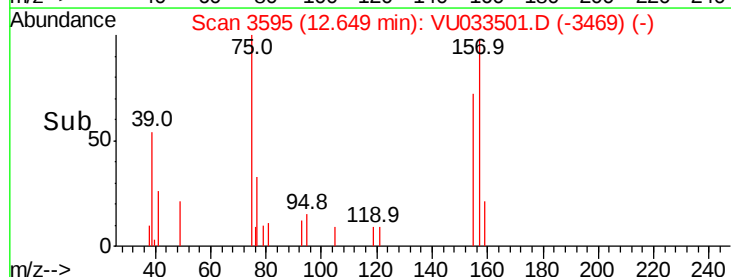
157 97.5 91.8 137.8

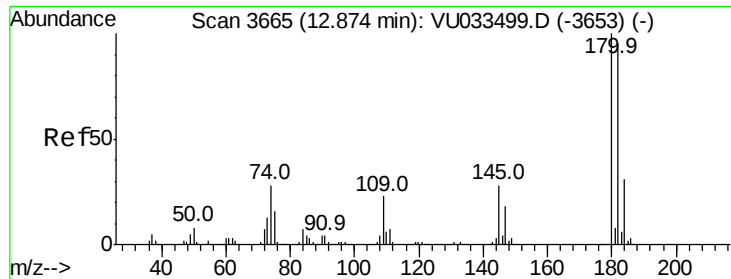


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





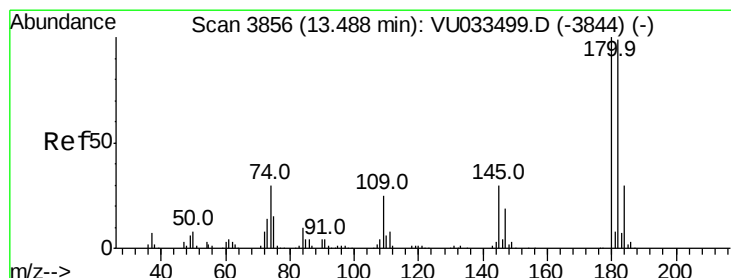
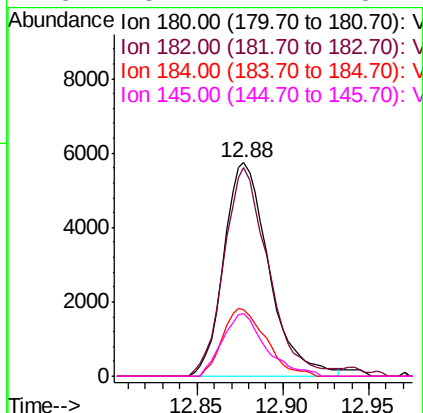
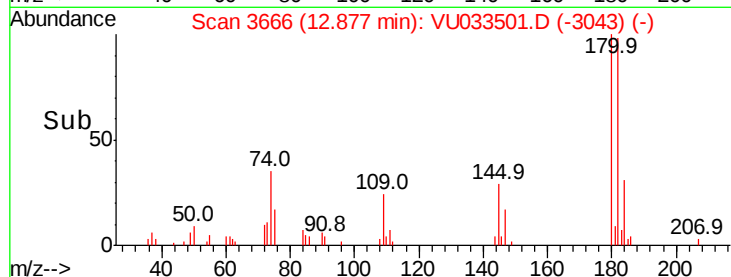
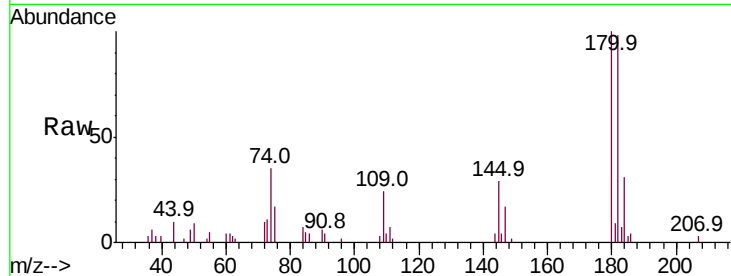
#67
 1,3,5-Trichlorobenzene
 Concen: 2.637 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.1	75.6	113.4	
184	30.3	24.2	36.2	
145	28.1	22.7	34.1	

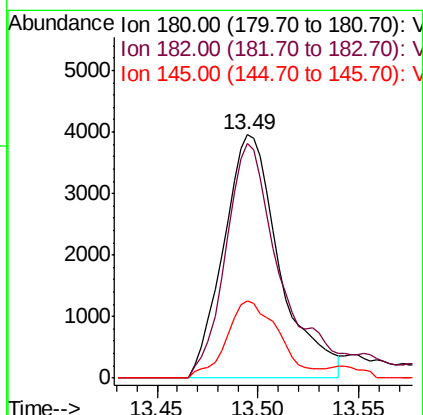
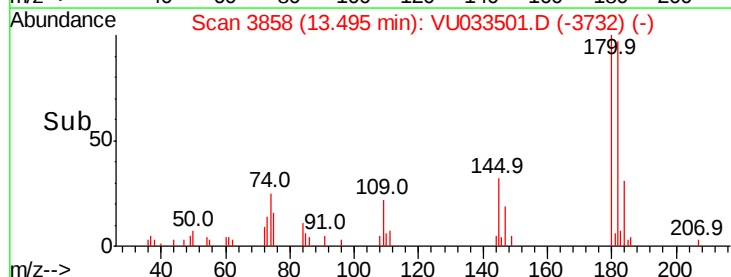
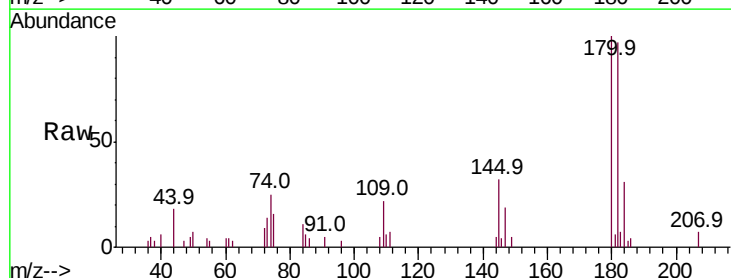
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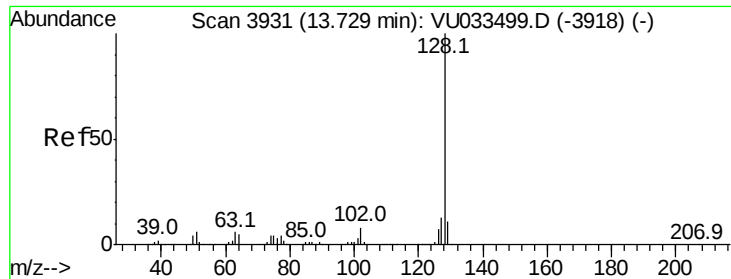
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#68
 1,2,4-trichlorobenzene
 Concen: 2.250 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	85.8	75.8	113.8	
145	29.7	24.3	36.5	





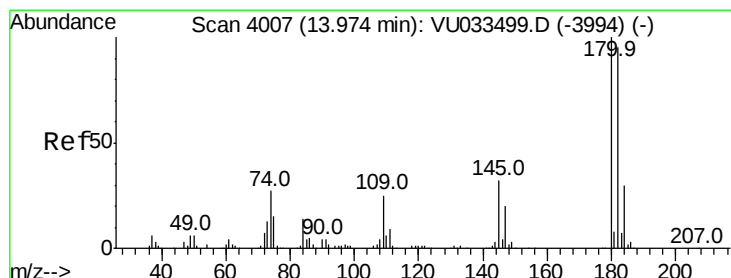
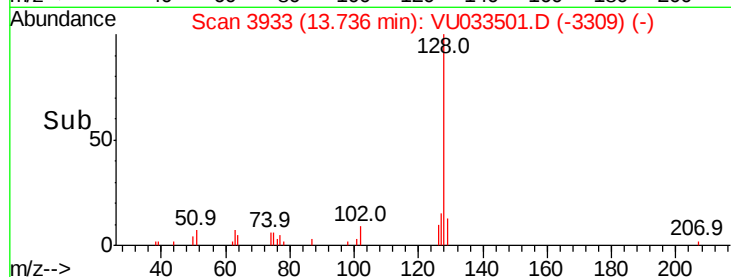
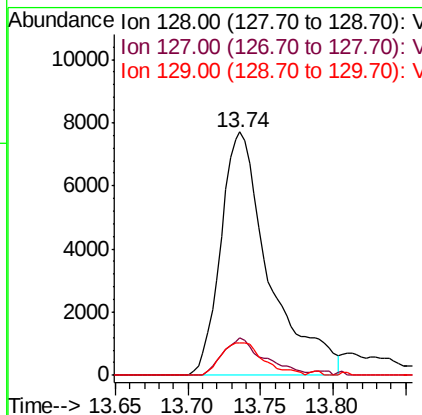
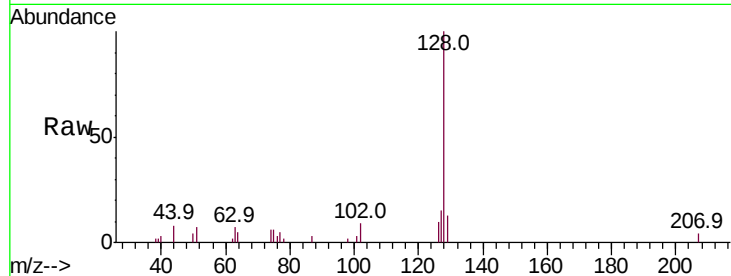
#69
Naphthalene
Concen: 1.829 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.8	16.2
129	6.8	8.7	13.1#

Manual Integrations
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#70
1,2,3-Trichlorobenzene
Concen: 2.326 ug/L
RT: 13.98 min Scan# 4008
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.5	113.3
145	28.1	24.4	36.6

