

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033539.D
 Acq On : 01 Aug 2019 10:31
 Operator : JC/SP
 Sample : MDL02
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:11 AM

Quant Time: Aug 02 02:09:38 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	5.86	114	295570	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	291975	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	143005	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	103463	48.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.28%
7) Chloroethane-d5	1.67	69	94119	51.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.10%
11) 1,1-Dichloroethene-d2	2.26	63	144416	37.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.06%
21) 2-Butanone-d5	4.14	46	171677	120.62	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.62%
24) Chloroform-d	4.62	84	194876	54.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.20%
26) 1,2-Dichloroethane-d4	5.28	65	128729	56.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	112.86%
32) Benzene-d6	5.32	84	394188	54.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.92%
36) 1,2-Dichloropropane-d6	6.31	67	127942	56.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.78%
41) Toluene-d8	7.55	98	356697	52.59	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.18%
43) trans-1,3-Dichloropropene-	7.83	79	58518	51.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.98%
47) 2-Hexanone-d5	8.29	63	125044	116.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.08%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	195238	55.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	111.62%
64) 1,2-Dichlorobenzene-d4	11.85	152	141963	54.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.42%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7759	2.784 ug/L	93
3) Chloromethane	1.32	50	8387	2.987 ug/L	98
5) Vinyl chloride	1.40	62	8603	2.858 ug/L #	77
6) Bromomethane	1.62	94	5925	2.231 ug/L	95
8) Chloroethane	1.69	64	5668	3.099 ug/L	97
9) Trichlorofluoromethane	1.87	101	11564	2.937 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7046	3.530 ug/L #	74
12) 1,1-Dichloroethene	2.27	96	6622	3.460 ug/L #	1
13) Acetone	2.31	43	9636	6.617 ug/L	99
14) Carbon disulfide	2.46	76	17623	2.935 ug/L	98
15) Methyl Acetate	2.60	43	7042	3.038 ug/L	90
16) Methylene chloride	2.68	84	6791	3.106 ug/L	99
17) trans-1,2-Dichloroethene	2.97	96	5694	2.839 ug/L	89
18) Methyl tert-butyl Ether	2.98	73	16126	2.637 ug/L #	89
19) 1,1-Dichloroethane	3.42	63	11290	2.999 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	6599	2.932 ug/L	91
22) 2-Butanone	4.25	43	9227	5.308 ug/L	77

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.53	128	3645	3.104	uq/L	94
25) Chloroform	4.65	83	15515	3.917	uq/L	98
27) 1,2-Dichloroethane	5.38	62	9425	3.090	uq/L #	94
29) Cyclohexane	4.97	56	7667	2.407	uq/L #	62
30) 1,1,1-Trichloroethane	4.89	97	9451	2.813	uq/L	98
31) Carbon tetrachloride	5.11	117	8454	2.890	uq/L	97
33) Benzene	5.37	78	24128	2.865	uq/L	100
34) Trichloroethene	6.17	95	7044	3.170	uq/L	92
35) Methylcyclohexane	6.40	83	8894	2.565	uq/L #	84
37) 1,2-Dichloropropane	6.41	63	6649	2.949	uq/L #	92
38) Bromodichloromethane	6.74	83	8864	3.041	uq/L	99
39) cis-1,3-Dichloropropene	7.25	75	9732	2.766	uq/L	92
40) 4-Methyl-2-pentanone	7.45	43	16751	5.381	uq/L #	95
42) Toluene	7.62	91	26052	2.876	uq/L	97
44) trans-1,3-Dichloropropene	7.86	75	8620m	2.711	uq/L	
45) 1,1,2-Trichloroethane	8.05	97	6671	3.117	uq/L	92
46) Tetrachloroethene	8.21	164	5263	2.901	uq/L	95
48) 2-Hexanone	8.35	43	16718	6.644	uq/L	93
49) Dibromochloromethane	8.46	129	6663	2.736	uq/L	91
50) 1,2-Dibromoethane	8.57	107	7164	3.022	uq/L #	95
51) Chlorobenzene	9.10	112	17171	2.896	uq/L	96
52) Ethylbenzene	9.23	91	25062	2.570	uq/L	99
53) m,p-Xylene	9.36	106	9634	2.573	uq/L	89
54) o-xylene	9.76	106	9013	2.482	uq/L	97
55) Styrene	9.78	104	13142	2.130	uq/L	94
56) Isopropylbenzene	10.15	105	21712	2.288	uq/L	97
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	11372	2.946	uq/L #	91
59) 1,2,3-Trichloropropane	10.48	75	8627	2.899	uq/L	95
61) Bromoform	9.94	173	4904	2.839	uq/L	95
62) 1,3-Dichlorobenzene	11.40	146	12059	2.746	uq/L	98
63) 1,4-Dichlorobenzene	11.49	146	13214	2.896	uq/L	99
65) 1,2-Dichlorobenzene	11.86	146	14204	3.199	uq/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2248	2.740	uq/L #	73
67) 1,3,5-Trichlorobenzene	12.88	180	8798	2.483	uq/L	98
68) 1,2,4-trichlorobenzene	13.50	180	6276m	2.073	uq/L	
69) Naphthalene	13.74	128	14524m	1.672	uq/L	
70) 1,2,3-Trichlorobenzene	13.98	180	7089m	2.226	uq/L	

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

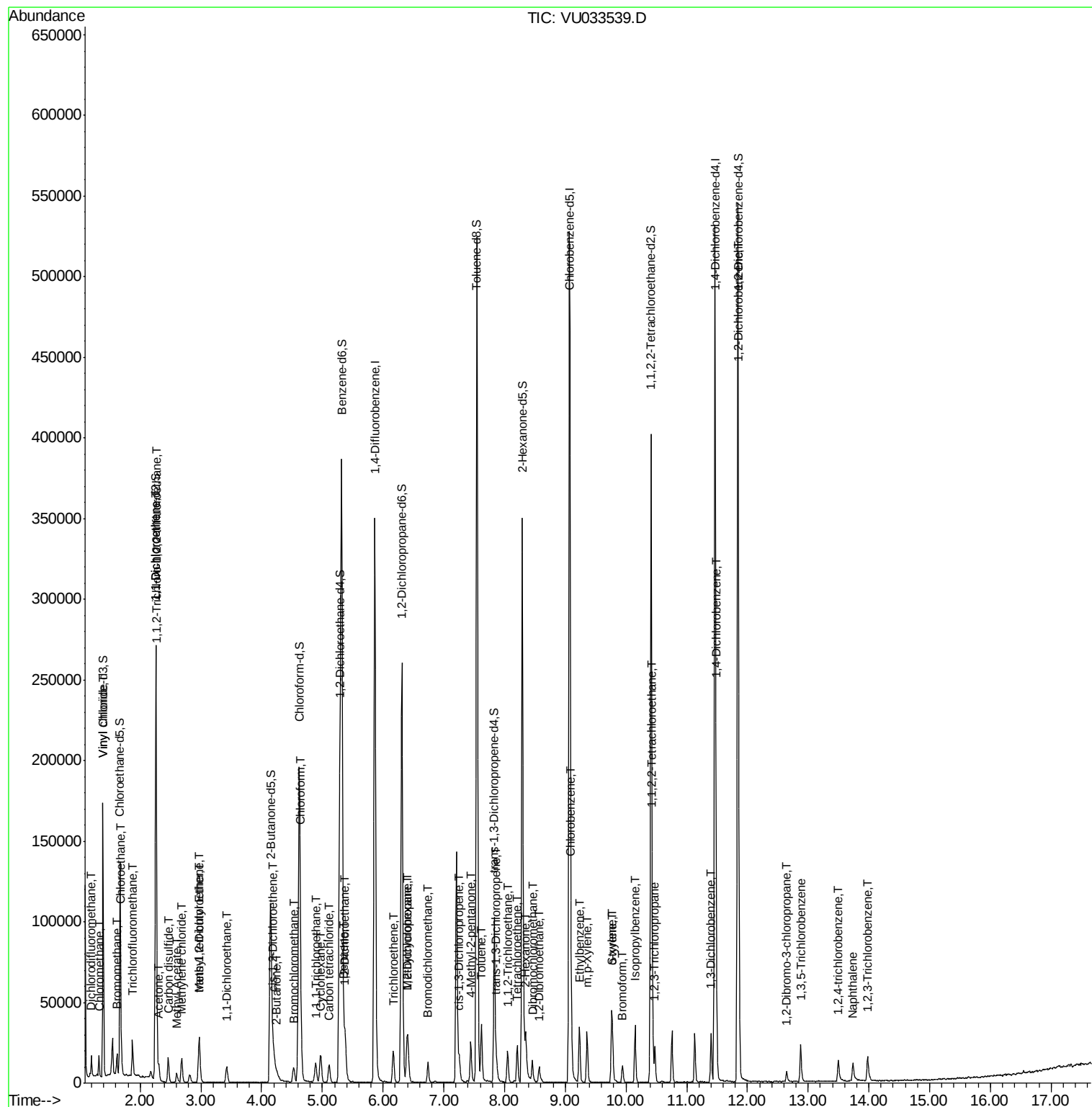
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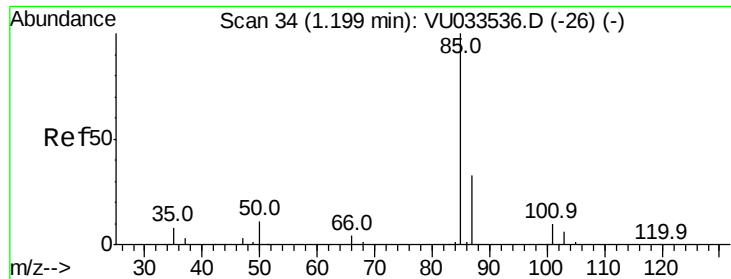
Instrument :
MSVOA_U
ClientSampleID :
MDL02

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#2

Dichlorodifluoromethane

Concen: 2.784 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 7759

Ion Ratio Lower Upper

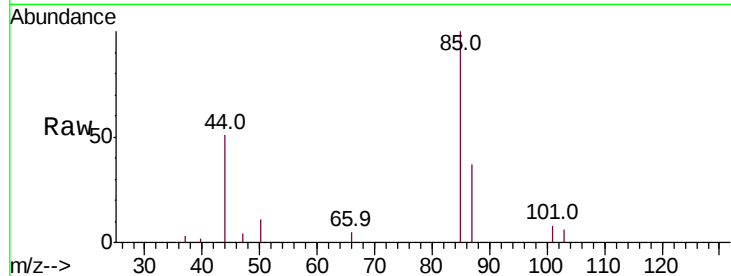
85 100

87 35.5 25.4 38.2

Manual Integrations
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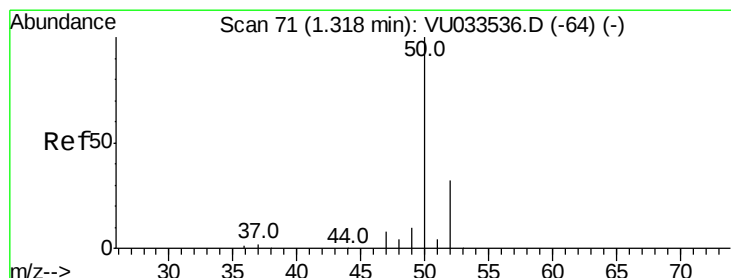
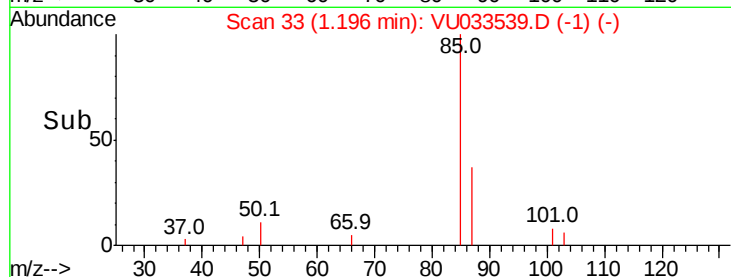
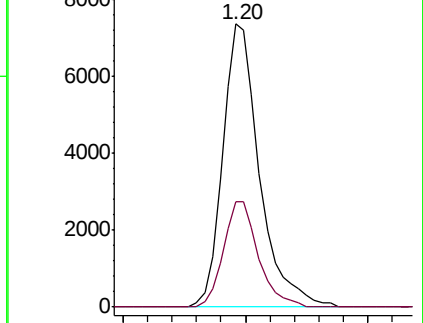
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Abundance Ion 85.00 (84.70 to 85.70): VU033539.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033539.D (-1) (-)



#3

Chloromethane

Concen: 2.987 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033539.D

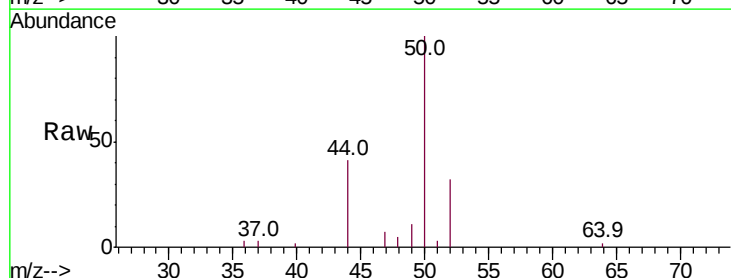
Acq: 01 Aug 2019 10:31

Tgt Ion: 50 Resp: 8387

Ion Ratio Lower Upper

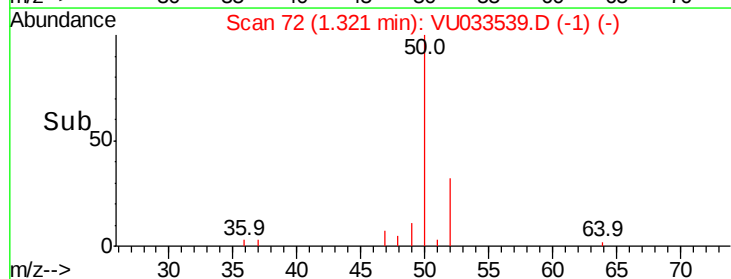
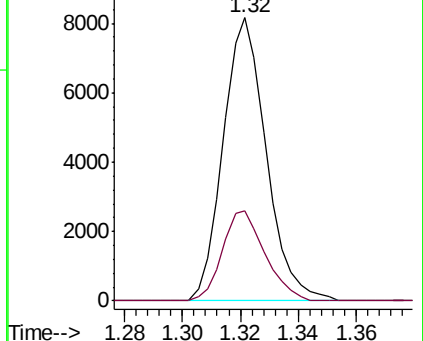
50 100

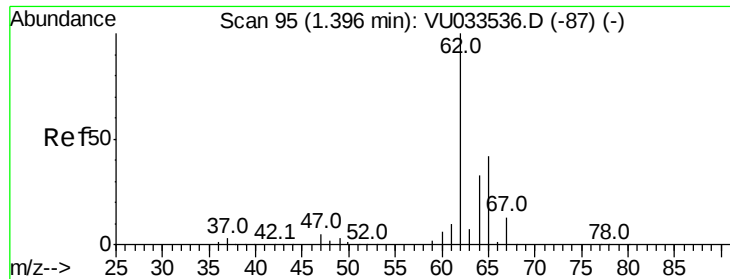
52 31.8 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033539.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033539.D (-1) (-)





#5

Vinyl chloride

Concen: 2.858 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 62 Resp: 8603

Ion Ratio Lower Upper

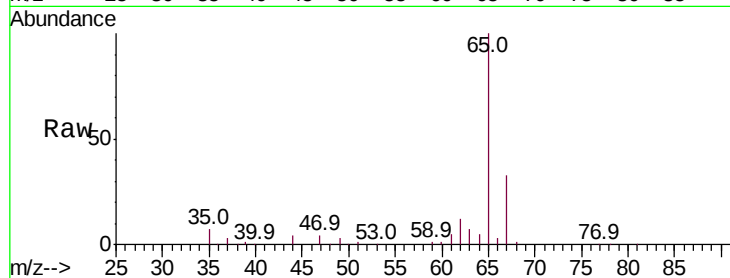
62 100

64 46.3 23.4 43.4#

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Abundance Ion 62.00 (61.70 to 62.70): VU033539.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033539.D (-87) (-)

1.40

8000

6000

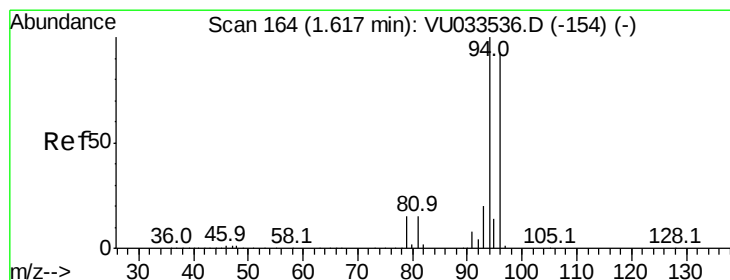
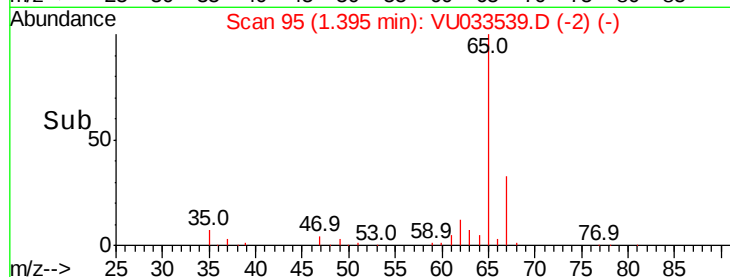
4000

2000

0

1.36 1.38 1.40 1.42 1.44

Time-->



#6

Bromomethane

Concen: 2.231 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033539.D

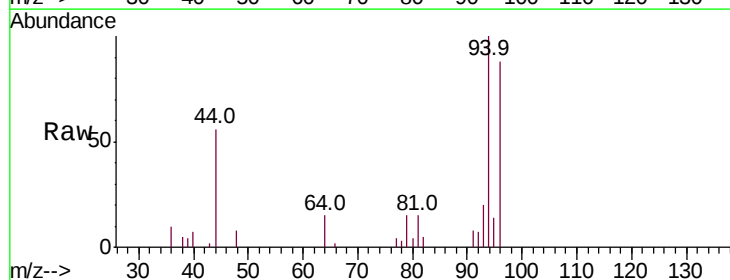
Acq: 01 Aug 2019 10:31

Tgt Ion: 94 Resp: 5925

Ion Ratio Lower Upper

94 100

96 87.6 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033539.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033539.D (-154) (-)

1.62

5000

4000

3000

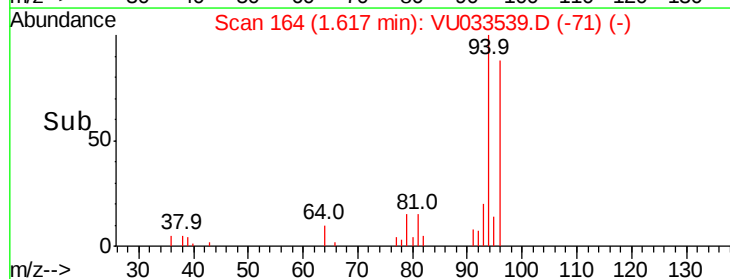
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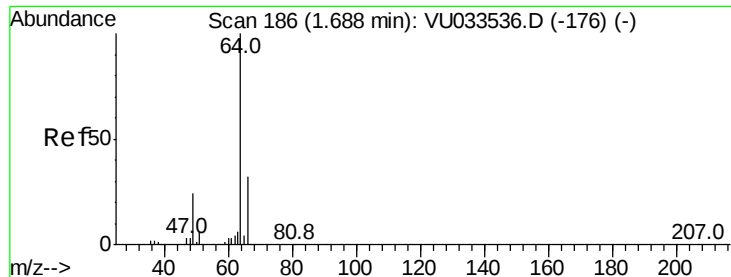
1000

0

1.60 1.62 1.64 1.66

Time-->





#8

Chloroethane

Concen: 3.099 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 64 Resp: 5668

Ion Ratio Lower Upper

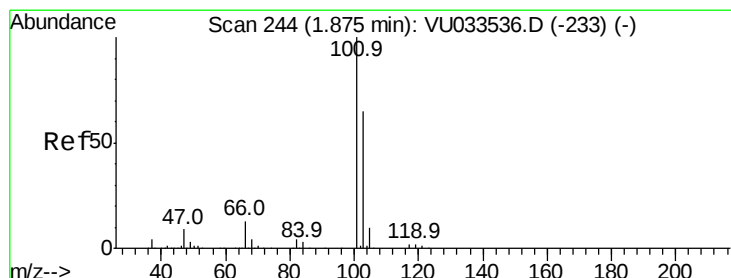
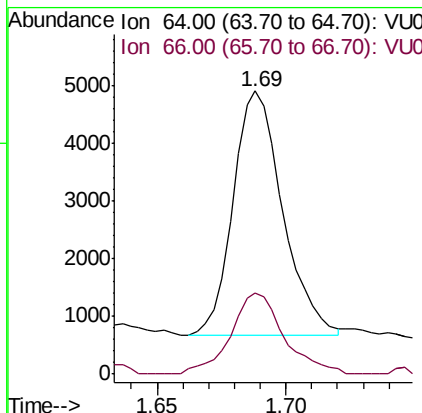
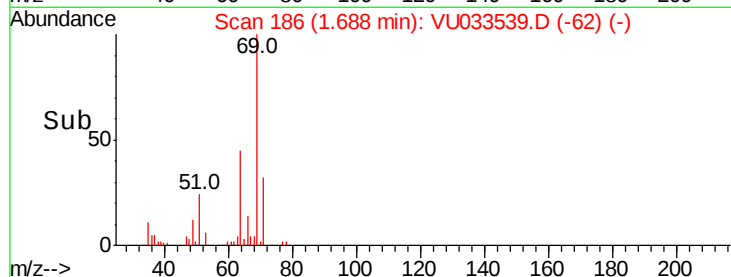
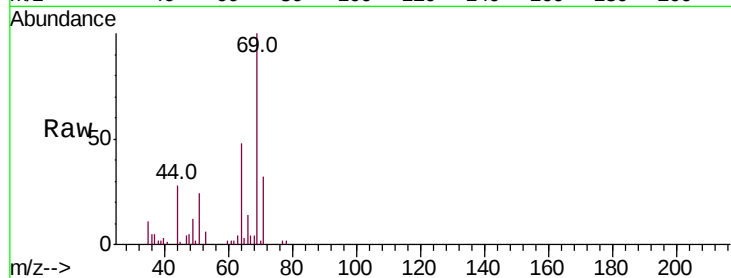
64 100

66 28.8 21.1 39.3

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 2.937 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033539.D

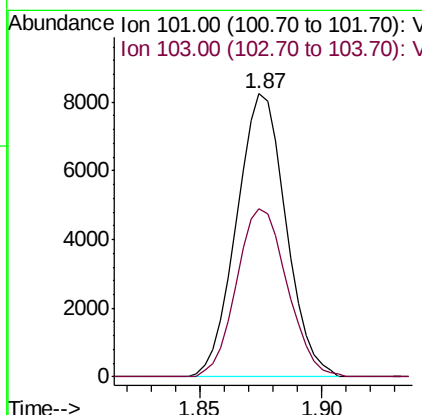
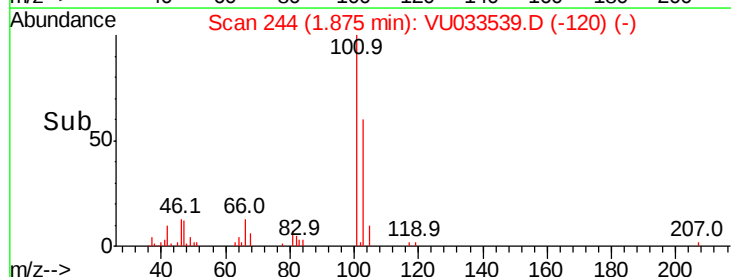
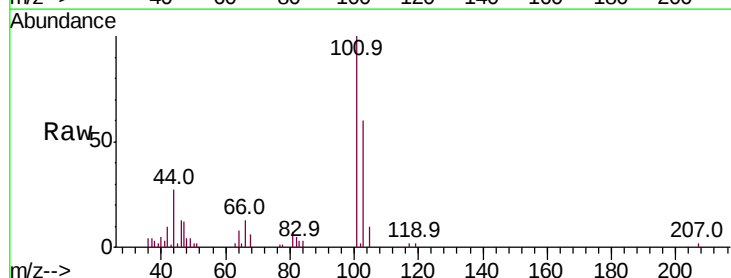
Acq: 01 Aug 2019 10:31

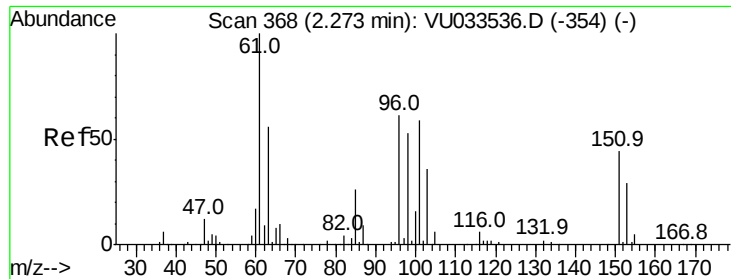
Tgt Ion: 101 Resp: 11564

Ion Ratio Lower Upper

101 100

103 61.0 51.6 77.4





#10

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

Concen: 3.530 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

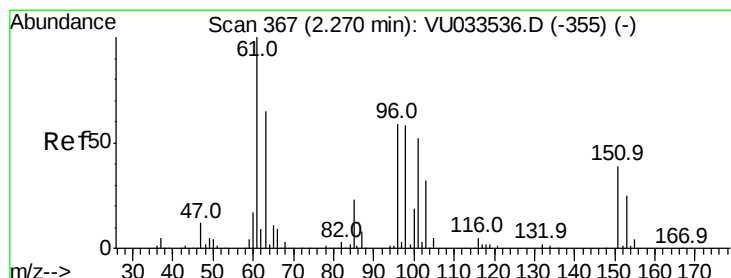
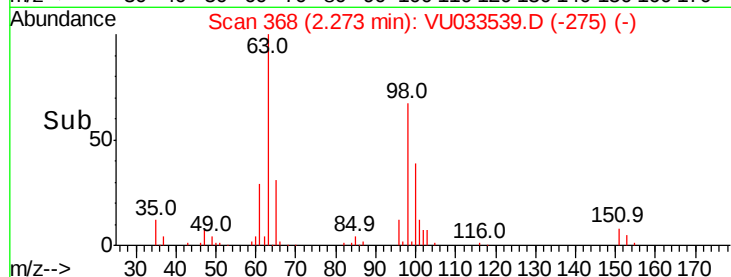
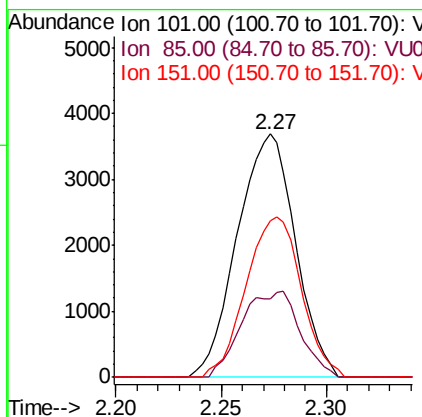
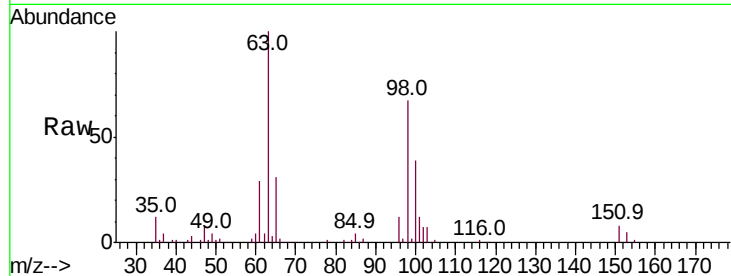
ClientSampled :

MDL02

Tot Ion:	101	Resp:	7046
Ion Ratio	Lower	Upper	
101	100		
85	16.1	35.8	53.8#
151	62.7	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 3.460 ug/L

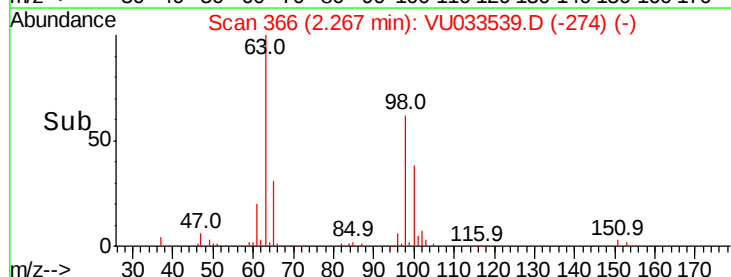
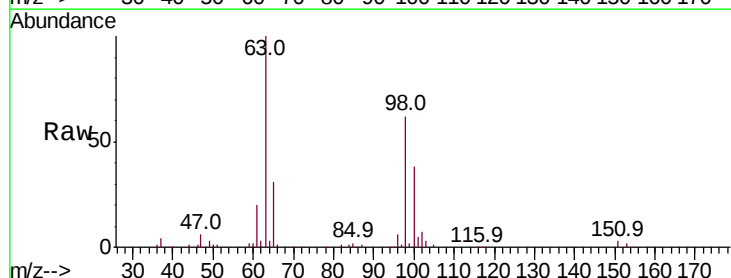
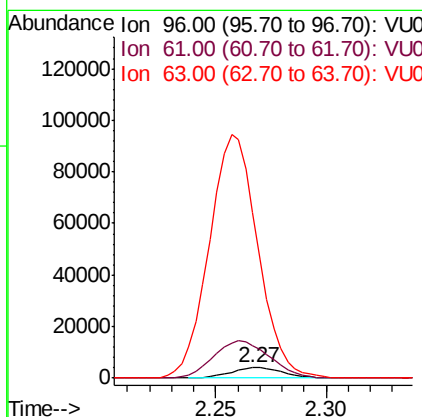
RT: 2.27 min Scan# 366

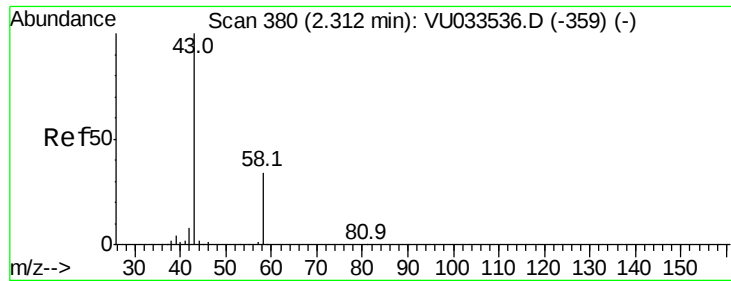
Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Tgt Ion:	96	Resp:	6622
Ion Ratio	Lower	Upper	
96	100		
61	317.2	119.3	221.5#
63	1604.4	86.6	160.8#





#13

Acetone

Concen: 6.617 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 9636

Ion Ratio Lower Upper

43 100

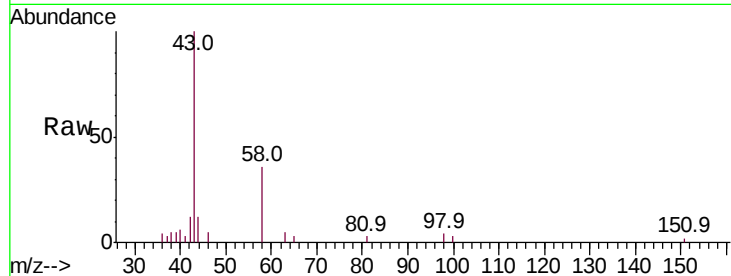
58 32.6 0.0 66.2

Manual Integrations

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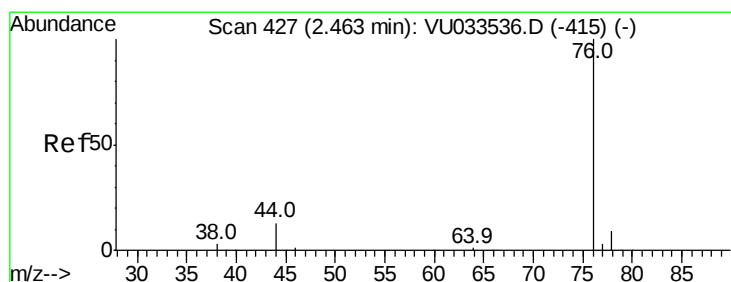
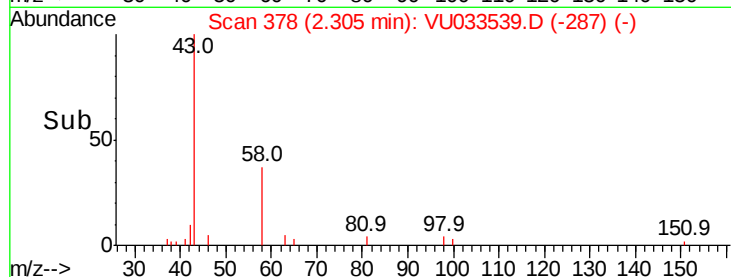
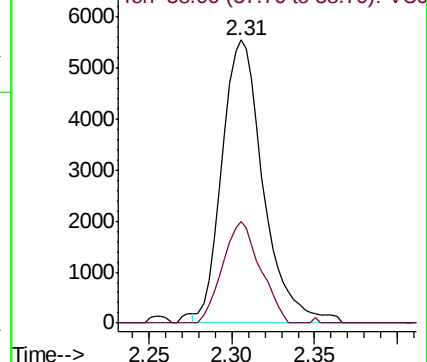
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 2.935 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033539.D

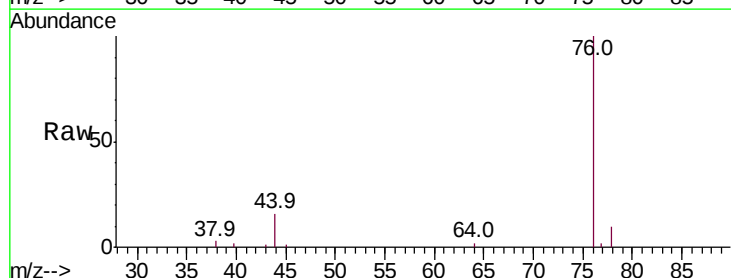
Acq: 01 Aug 2019 10:31

Tgt Ion: 76 Resp: 17623

Ion Ratio Lower Upper

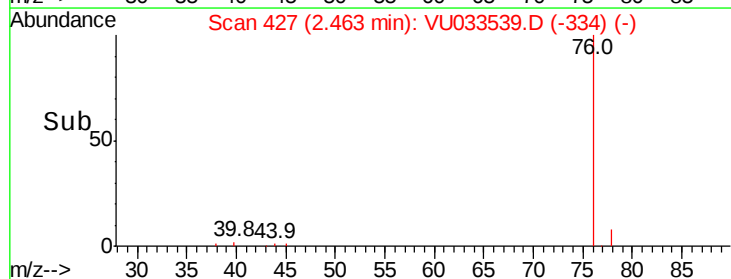
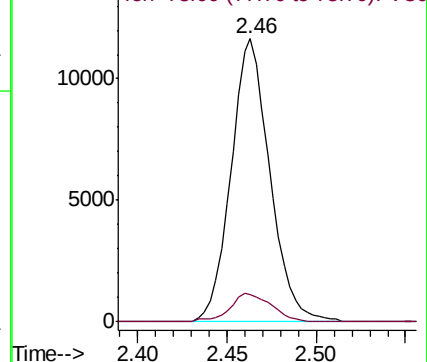
76 100

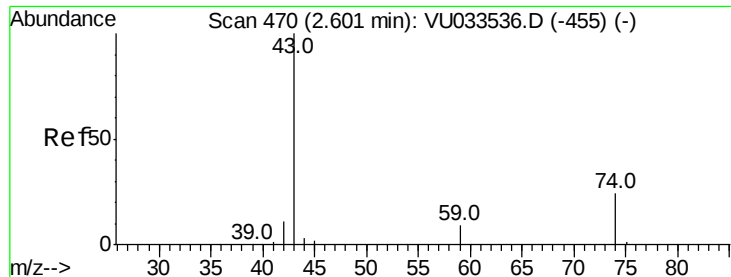
78 9.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





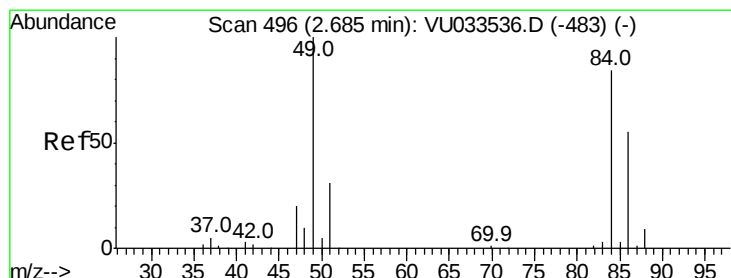
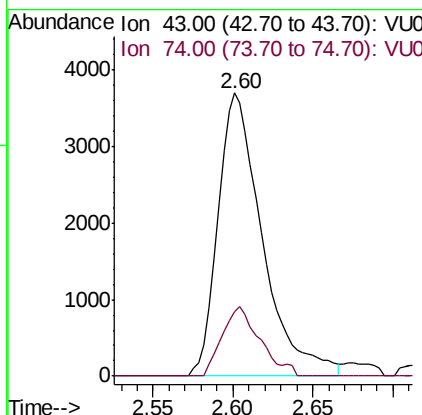
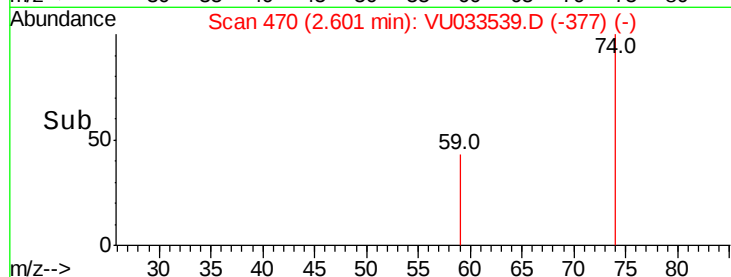
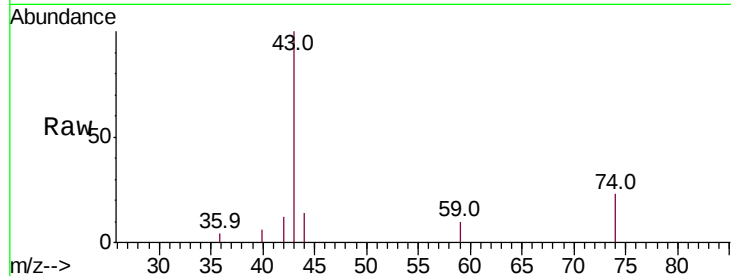
#15
Methyl Acetate
Concen: 3.038 ug/L
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion: 43 Resp: 7042
Ion Ratio Lower Upper
43 100
74 20.2 20.1 30.1

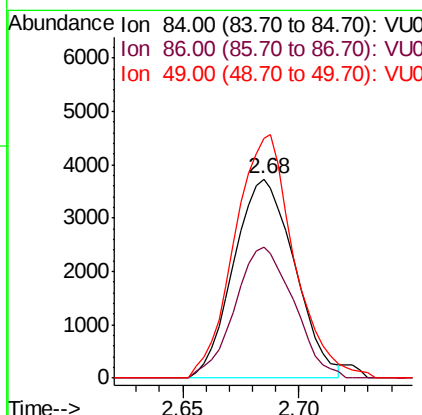
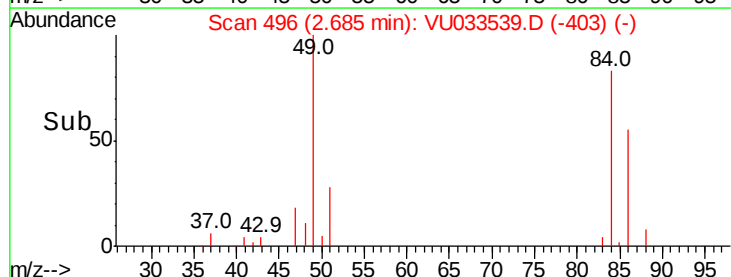
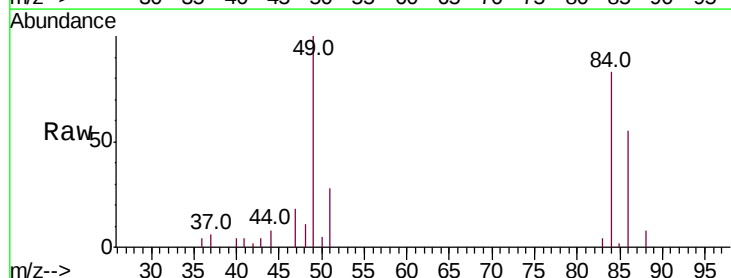
Manual Integrations
APPROVED

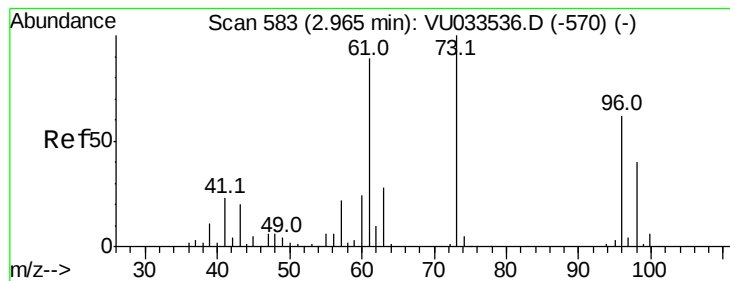
MMDadoda
8/2/2019 8:29:11 AM



#16
Methylene chloride
Concen: 3.106 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion: 84 Resp: 6791
Ion Ratio Lower Upper
84 100
86 66.1 45.7 84.9
49 120.6 85.0 158.0





#17

trans-1,2-Dichloroethene

Concen: 2.839 ug/L

RT: 2.97 min Scan# 585

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 96 Resp: 5694

Ion Ratio Lower Upper

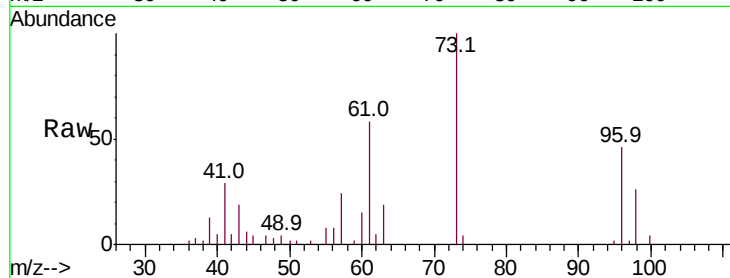
96 100

61 126.0 98.3 182.5

98 57.1 44.3 82.3

Manual Integrations
APPROVED

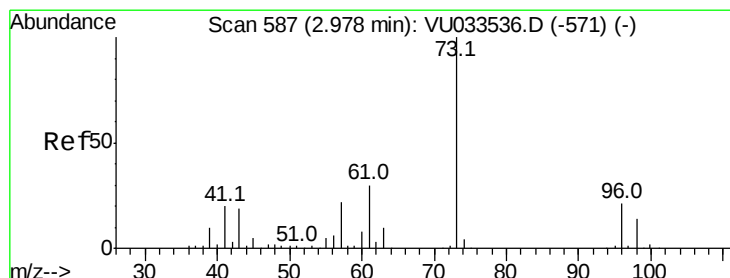
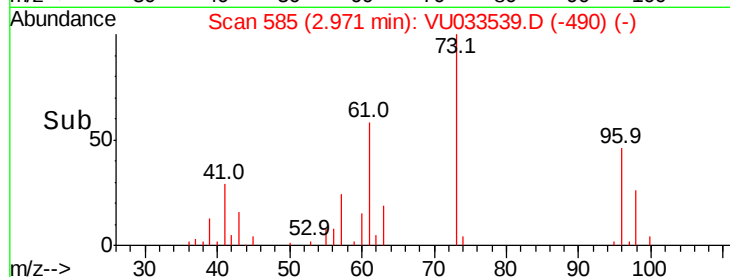
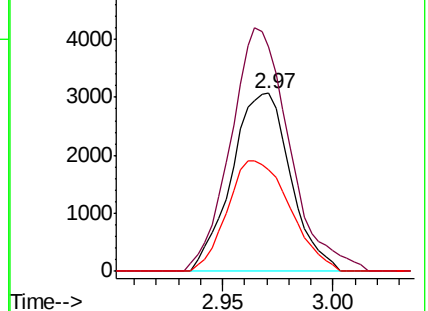
MMDadoda
8/2/2019 8:29:11 AM



Abundance Ion 96.00 (95.70 to 96.70): VU033536.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033536.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033536.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 2.637 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

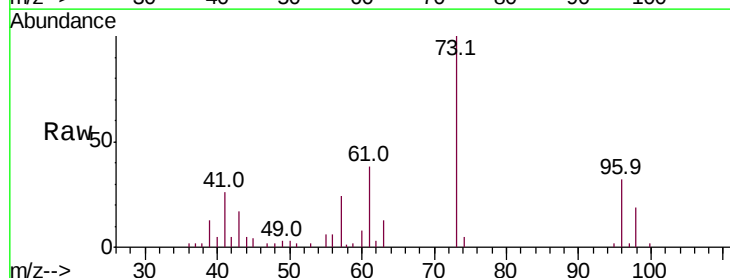
Tgt Ion: 73 Resp: 16126

Ion Ratio Lower Upper

73 100

43 10.9 15.4 23.2#

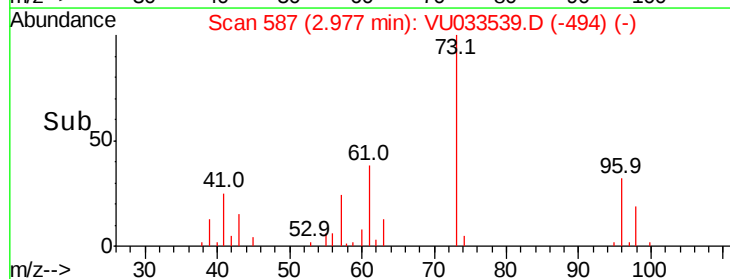
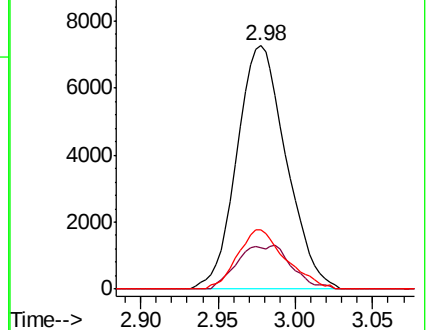
57 23.8 17.4 26.2

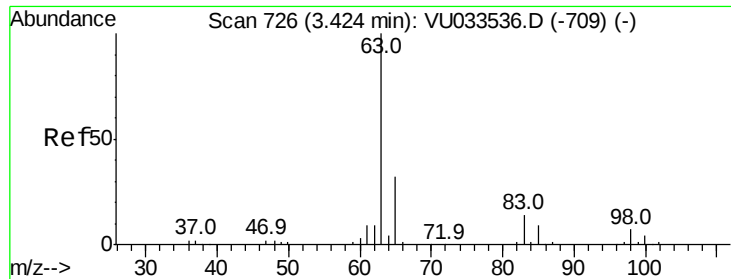


Abundance Ion 73.00 (72.70 to 73.70): VU033536.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033536.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033536.D (-571) (-)





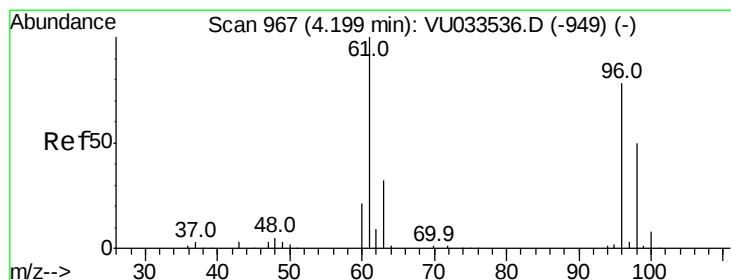
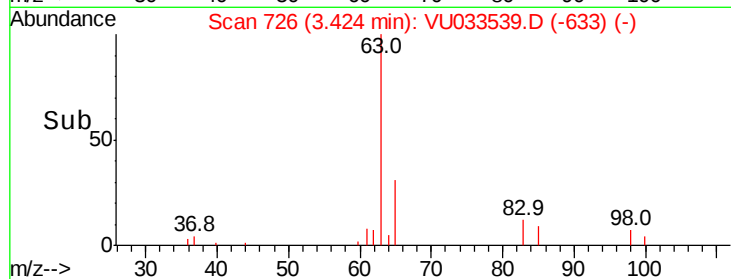
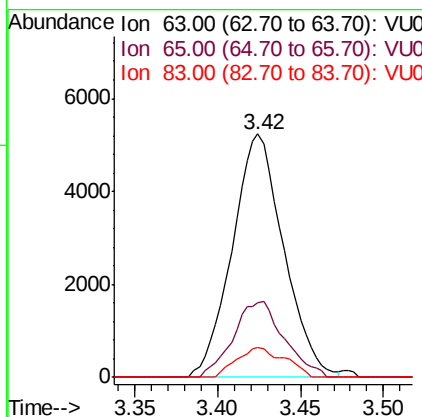
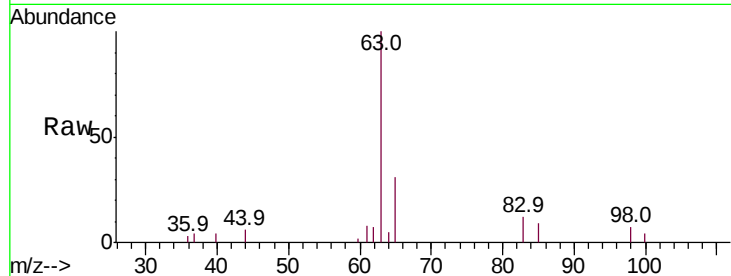
#19
 1,1-Dichloroethane
 Concen: 2.999 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:	63	Resp:	11290
Ion	Ratio	Lower	Upper
63	100		
65	30.6	22.0	40.8
83	12.5	9.5	17.7

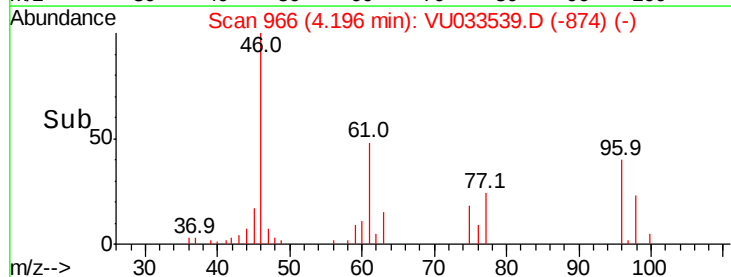
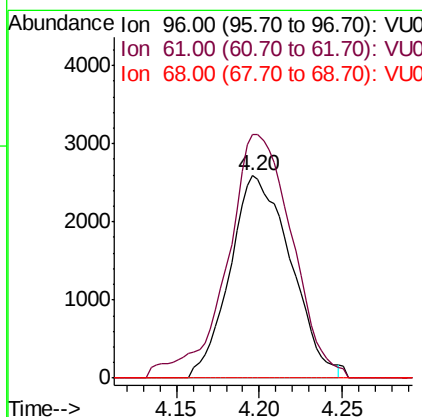
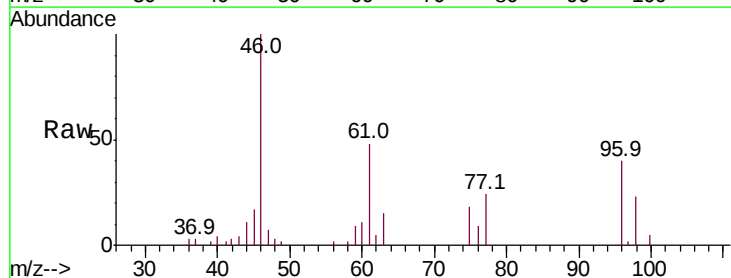
Manual Integrations
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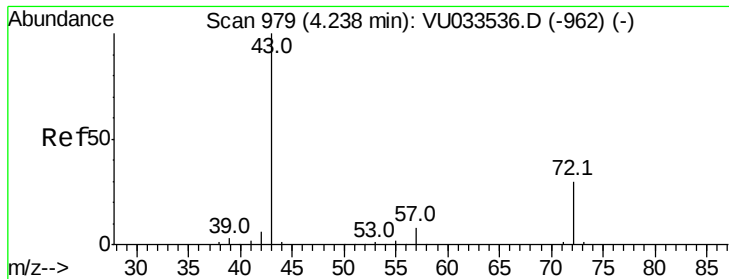
MMDadoda
 8/2/2019 8:29:11 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.932 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion:	96	Resp:	6599
Ion	Ratio	Lower	Upper
96	100		
61	120.4	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.308 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 9227

Ion Ratio Lower Upper

43 100

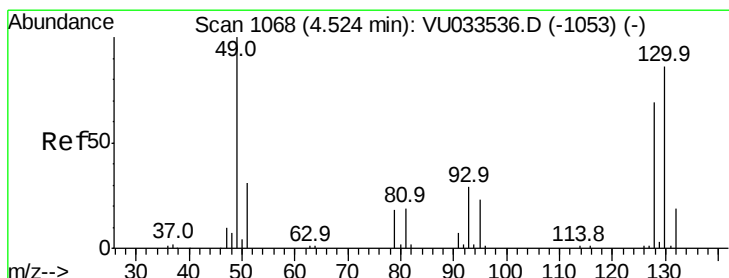
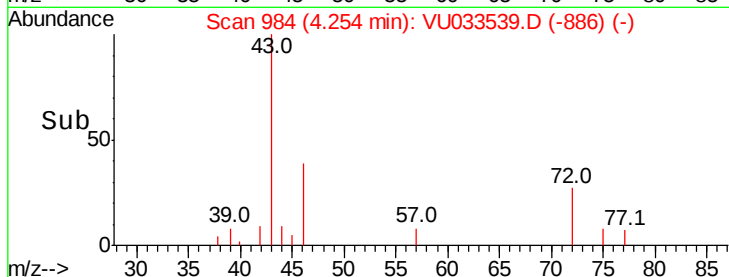
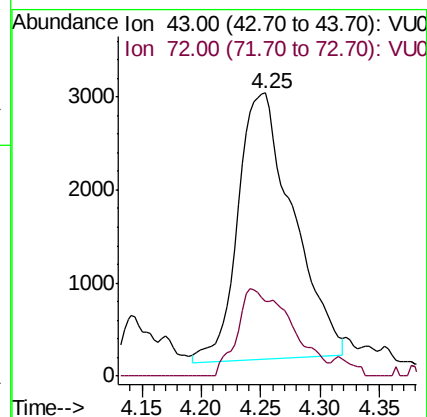
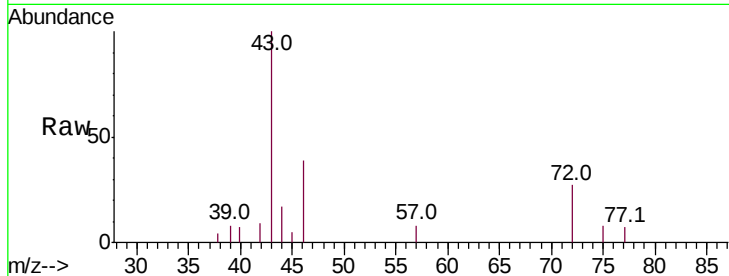
72 16.1 14.2 42.6

Manual Integrations

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MMDadoda

8/2/2019 8:29:11 AM



#23

Bromochloromethane

Concen: 3.104 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Tgt Ion: 128 Resp: 3645

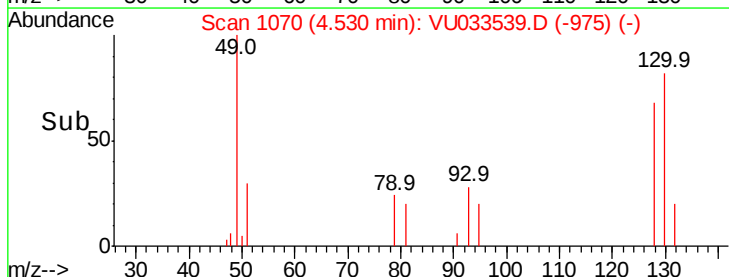
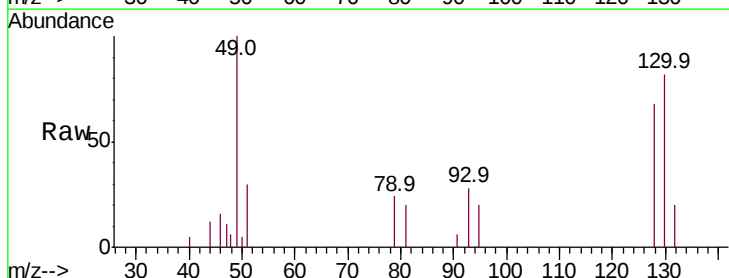
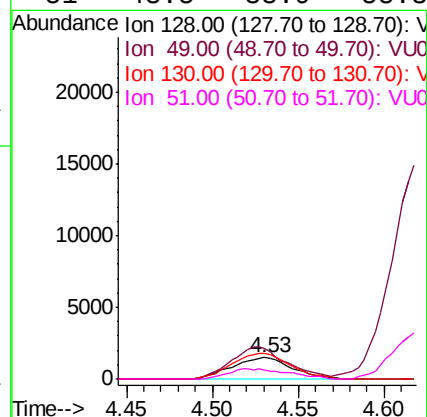
Ion Ratio Lower Upper

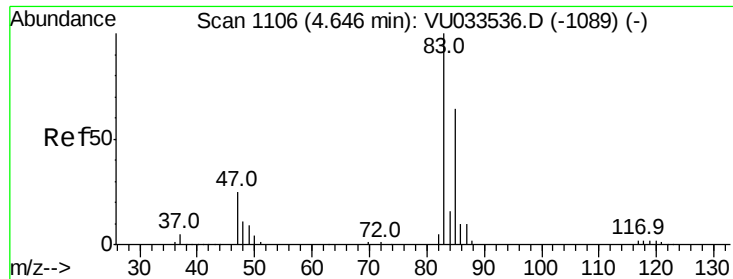
128 100

49 147.3 108.4 201.2

130 120.2 89.7 166.5

51 43.5 38.9 58.3





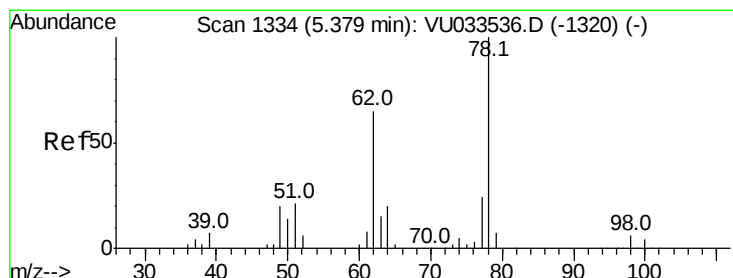
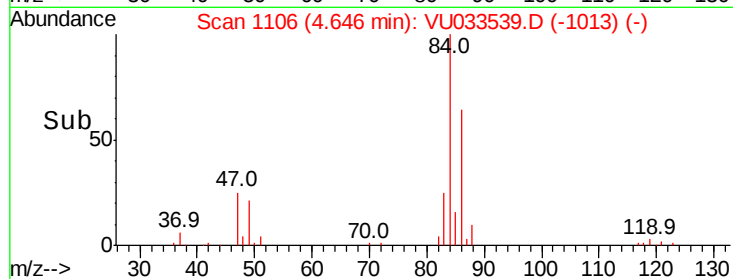
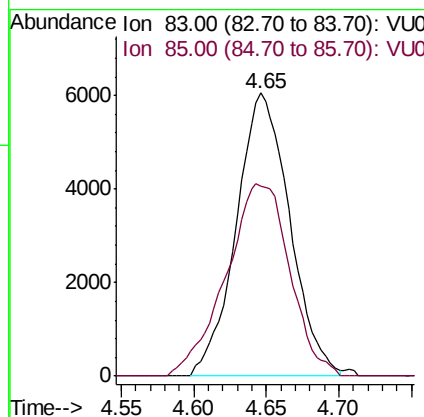
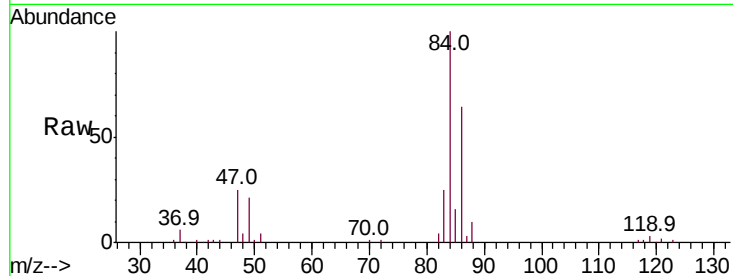
#25
Chloroform
Concen: 3.917 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 15515
Ion Ratio Lower Upper
83 100
85 67.1 45.6 84.8

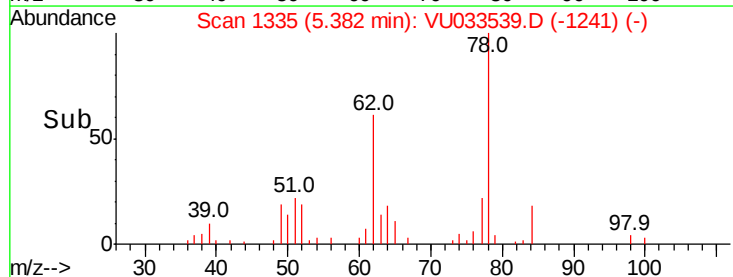
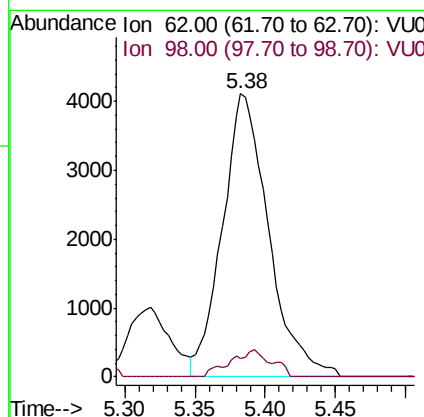
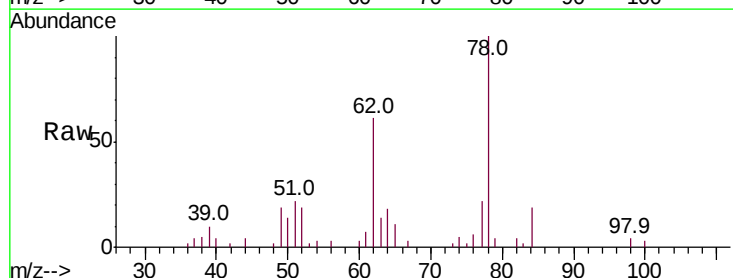
Manual Integrations
APPROVED

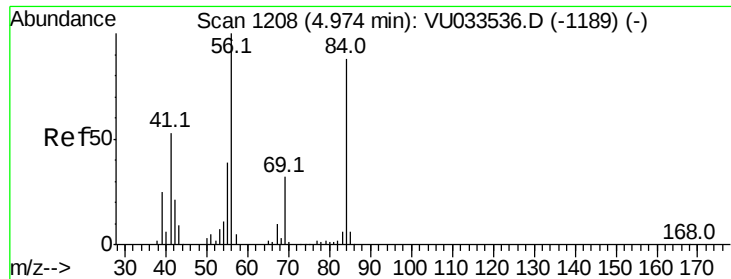
MMDadoda
8/2/2019 8:29:11 AM



#27
1,2-Dichloroethane
Concen: 3.090 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion: 62 Resp: 9425
Ion Ratio Lower Upper
62 100
98 6.7 7.2 10.8#





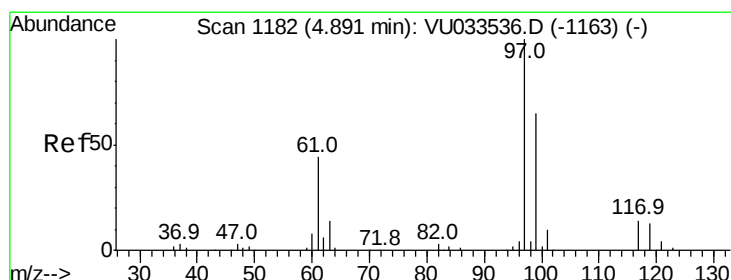
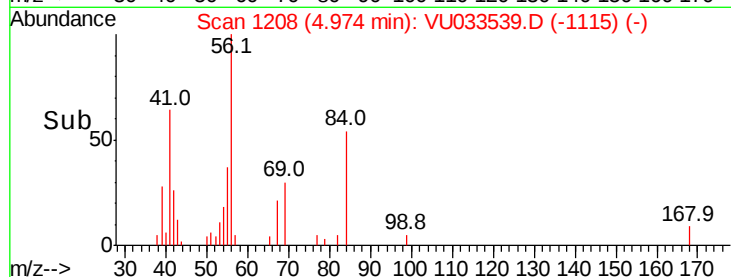
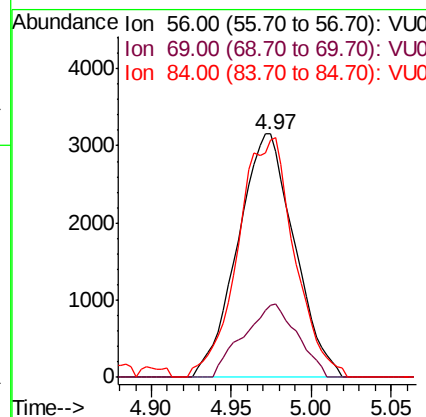
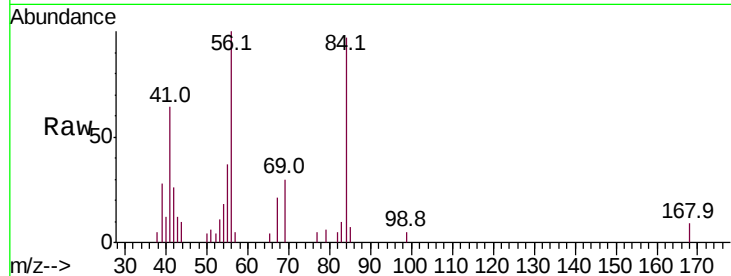
#29
Cyclohexane
Concen: 2.407 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.6	25.0	37.6
84	43.0	71.6	107.4#

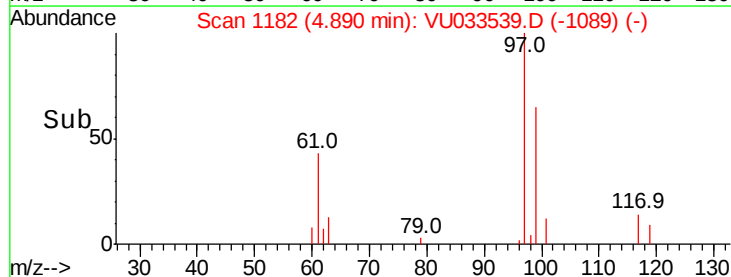
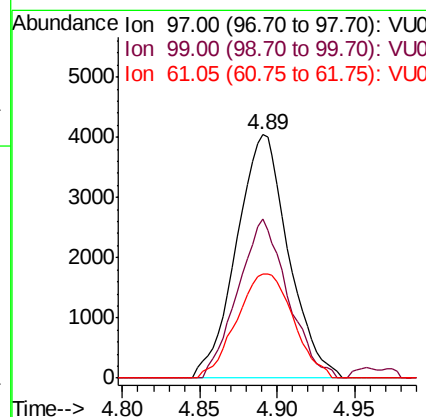
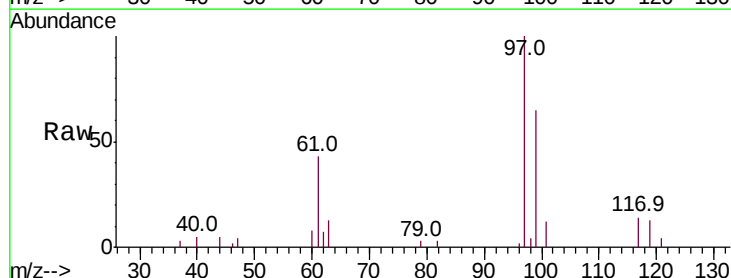
Manual Integrations
APPROVED

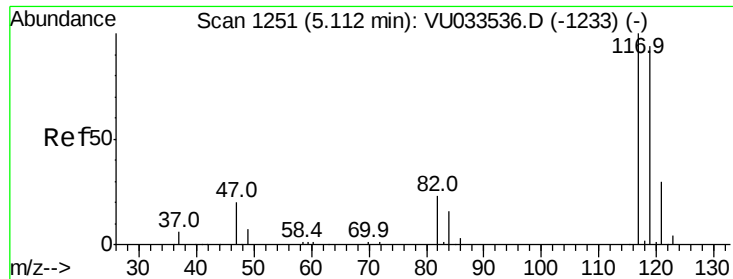
MMDadoda
8/2/2019 8:29:11 AM



#30
1,1,1-Trichloroethane
Concen: 2.813 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.1	76.7
61	46.6	35.5	53.3





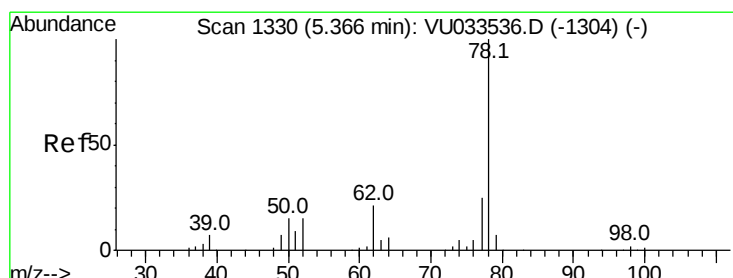
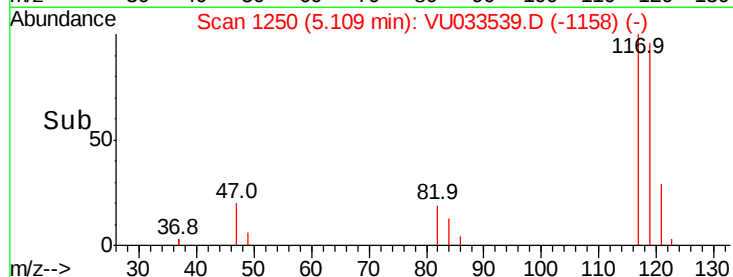
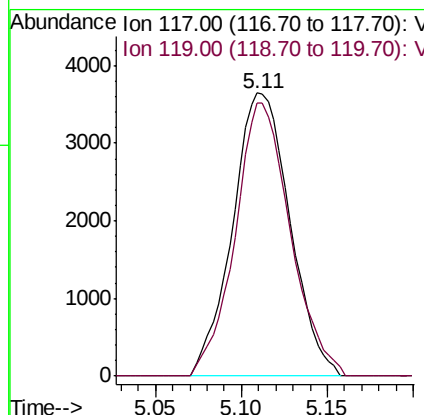
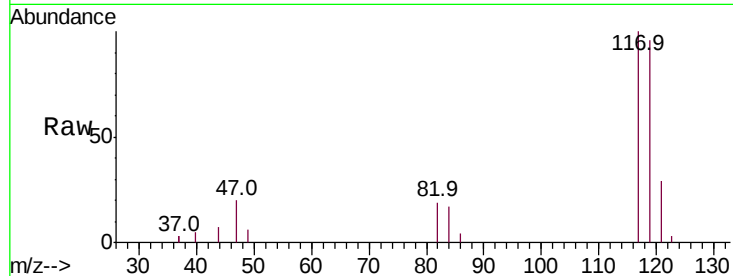
#31
Carbon tetrachloride
Concen: 2.890 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion:117 Resp: 8454
Ion Ratio Lower Upper
117 100
119 93.0 77.0 115.4

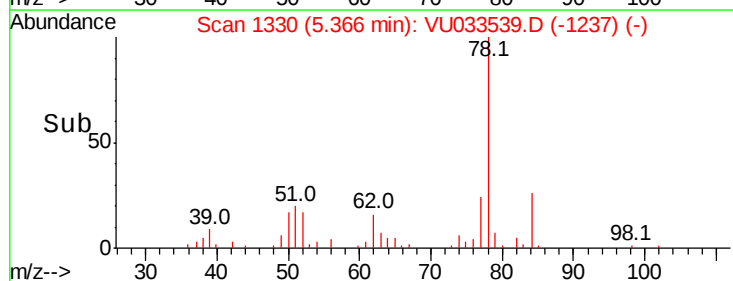
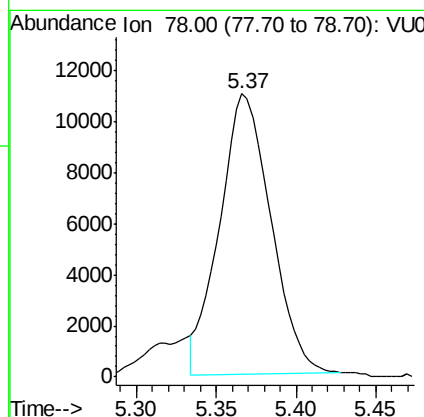
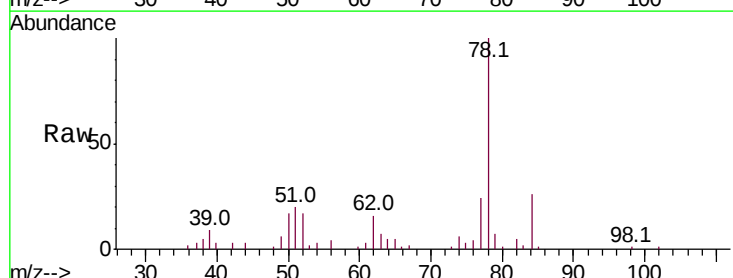
Manual Integrations
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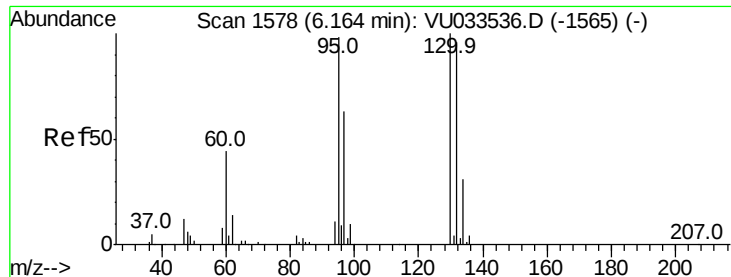
MMDadoda
8/2/2019 8:29:11 AM



#33
Benzene
Concen: 2.865 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion: 78 Resp: 24128





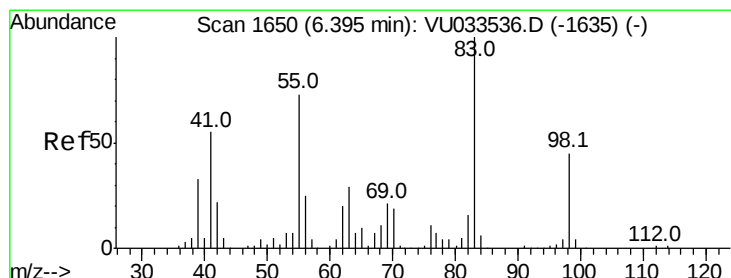
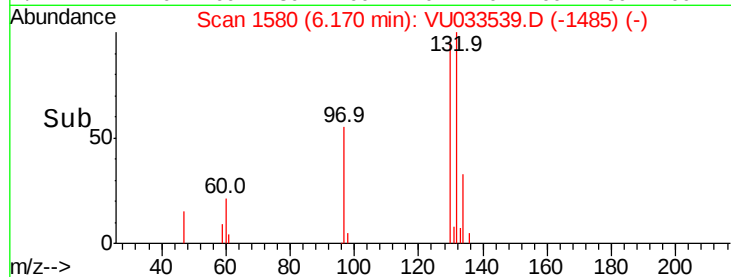
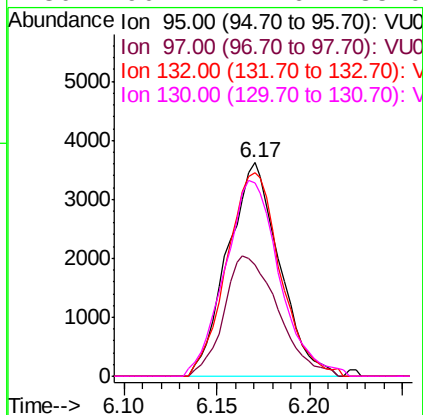
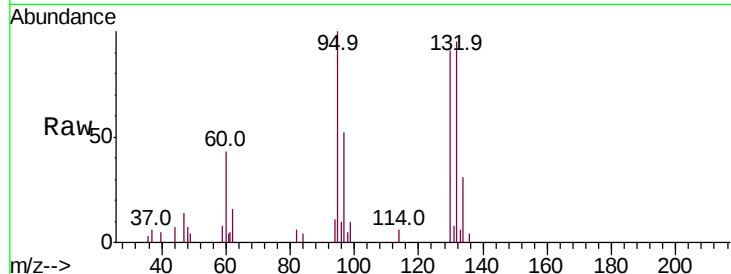
#34
 Trichloroethene
 Concen: 3.170 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
95	100		
97	52.2	44.7	83.1
132	95.4	66.8	124.0
130	90.7	71.6	133.0

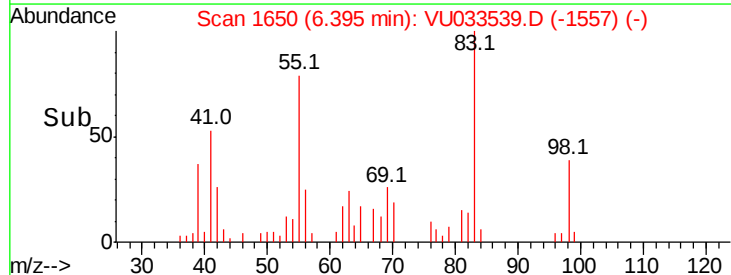
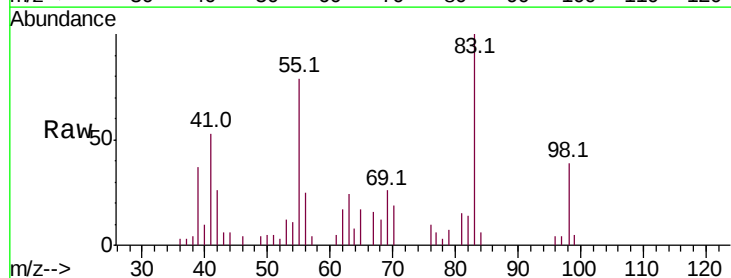
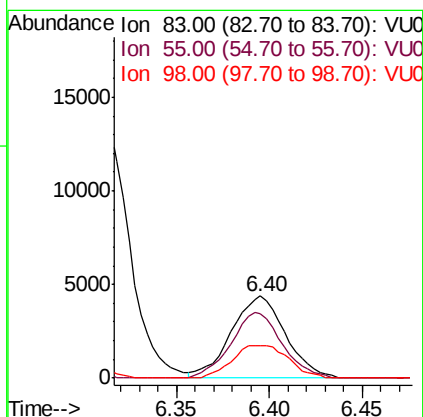
Manual Integrations
 APPROVED

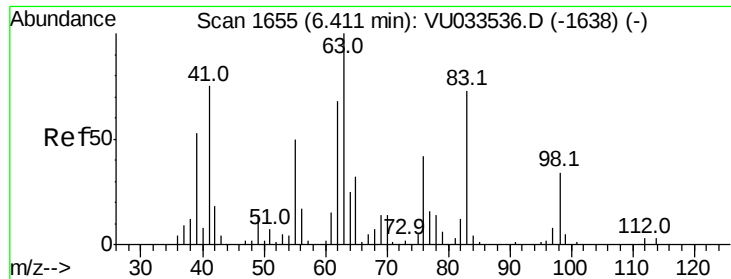
MMDadoda
 8/2/2019 8:29:11 AM



#35
 Methylcyclohexane
 Concen: 2.565 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion	Ratio	Lower	Upper
83	100		
55	75.4	60.2	90.4
98	18.5	36.5	54.7#





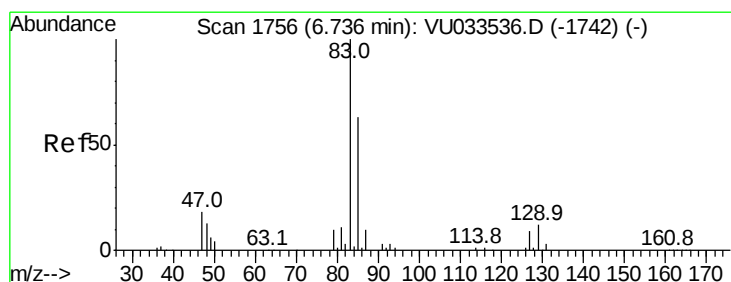
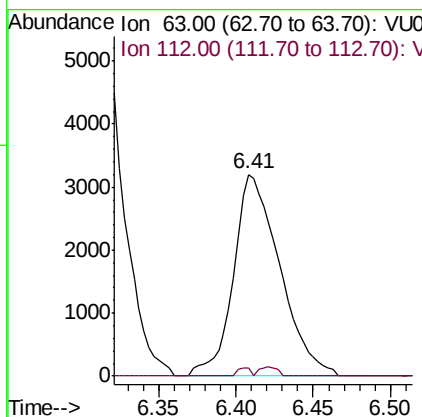
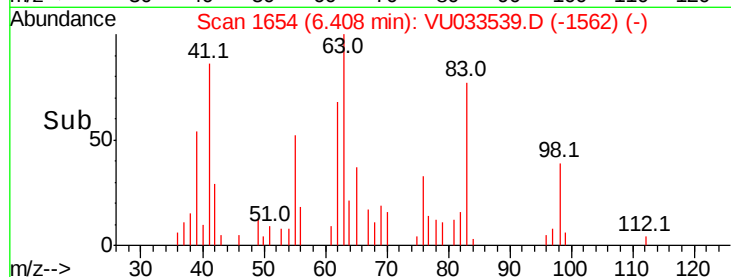
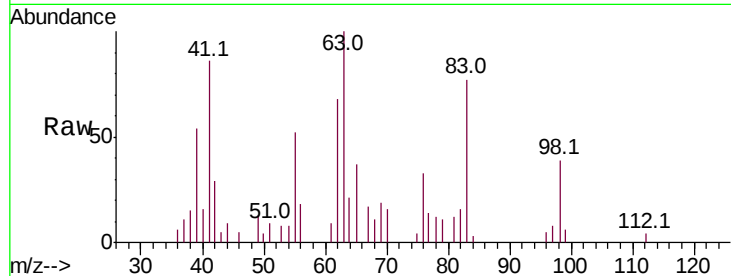
#37
 1,2-Dichloropropane
 Concen: 2.949 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 63 Resp: 6649
 Ion Ratio Lower Upper
 63 100
 112 1.0 3.0 4.6#

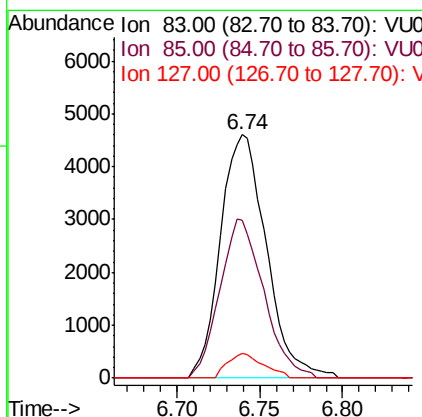
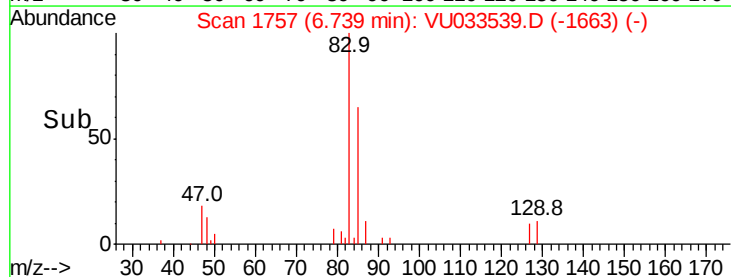
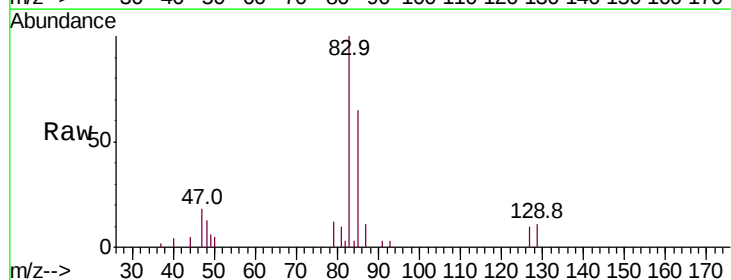
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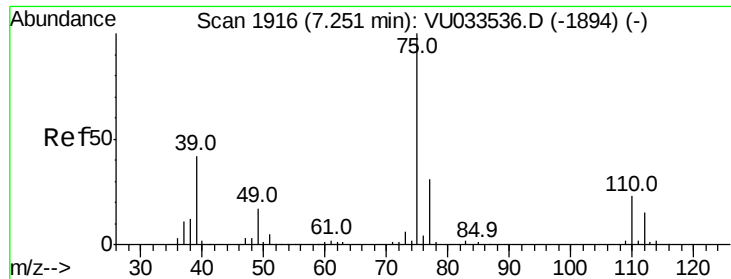
MMDadoda
 8/2/2019 8:29:11 AM



#38
 Bromodichloromethane
 Concen: 3.041 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion: 83 Resp: 8864
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.1 83.9
 127 10.3 7.2 10.8





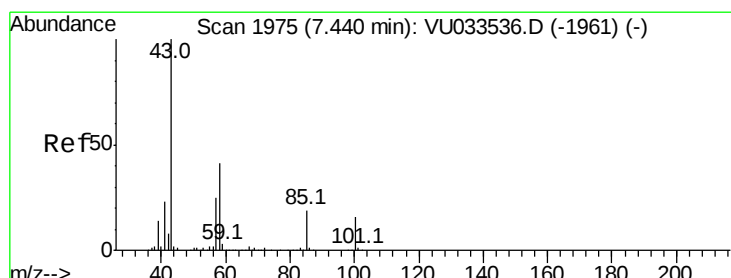
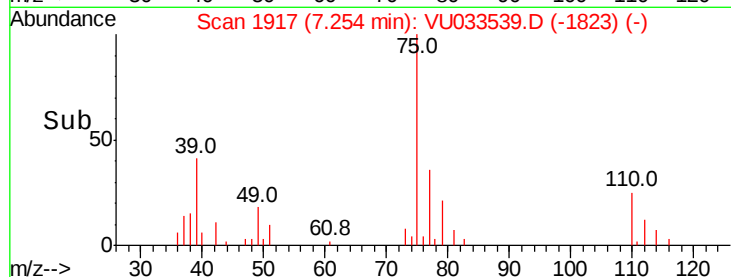
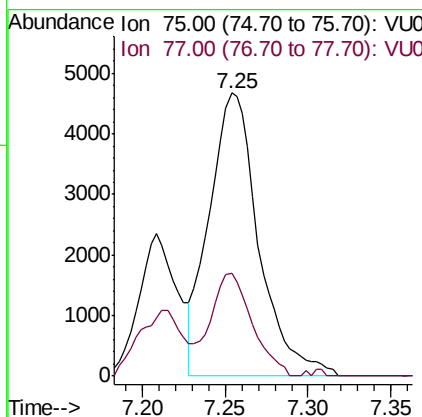
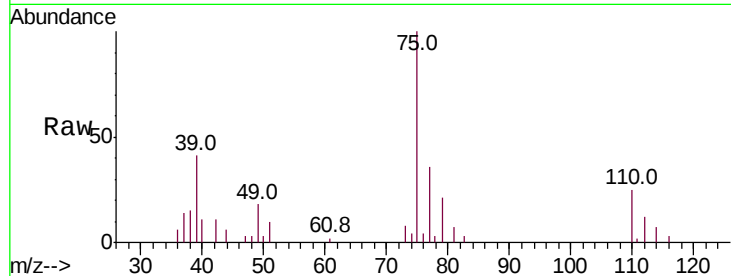
#39
 cis-1,3-Dichloropropene
 Concen: 2.766 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 9732
 Ion Ratio Lower Upper
 75 100
 77 36.2 22.3 41.5

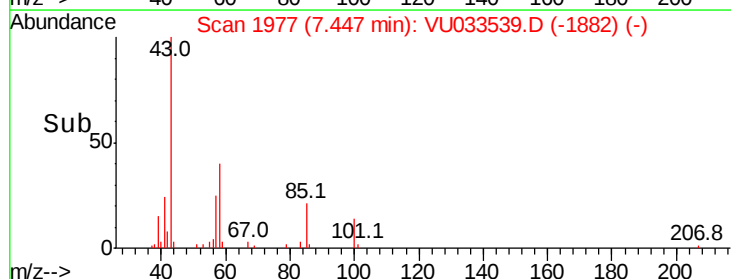
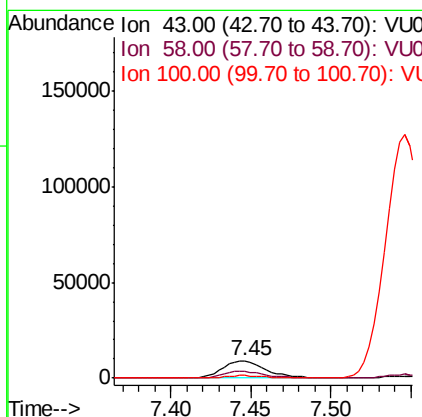
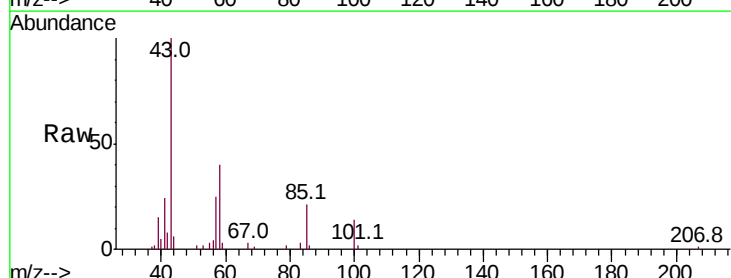
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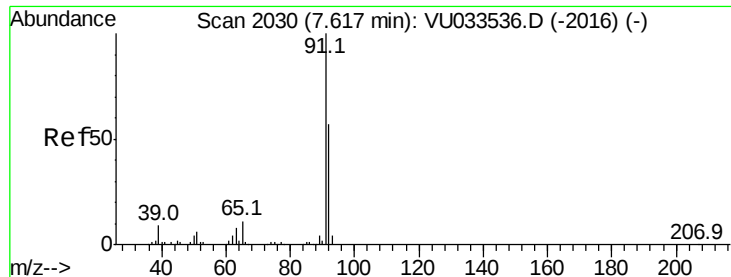
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#40
 4-Methyl-2-pentanone
 Concen: 5.381 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion: 43 Resp: 16751
 Ion Ratio Lower Upper
 43 100
 58 38.6 32.8 49.2
 100 12.5 12.9 19.3#





#42

Toluene

Concen: 2.876 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 26052

Ion Ratio Lower Upper

91 100

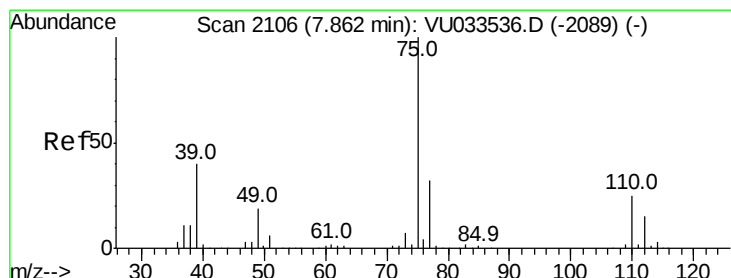
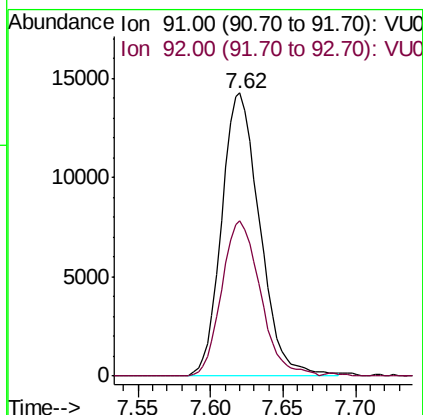
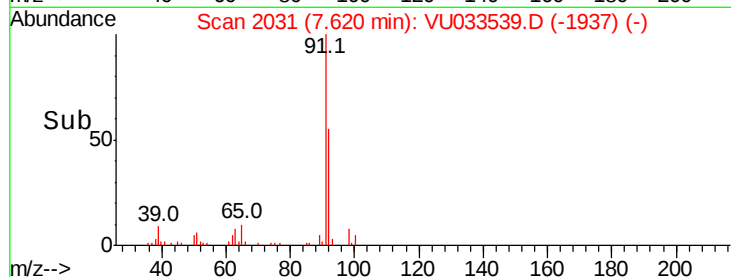
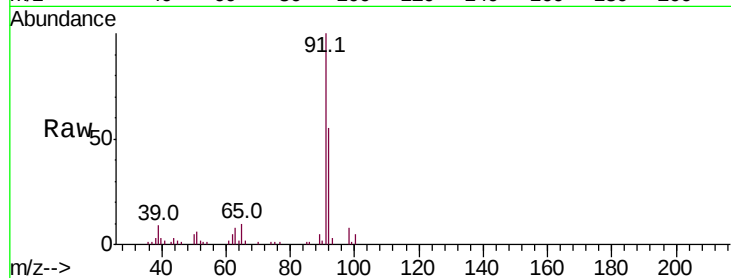
92 54.9 40.2 74.6

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#44

trans-1,3-Dichloropropene

Concen: 2.711 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033539.D

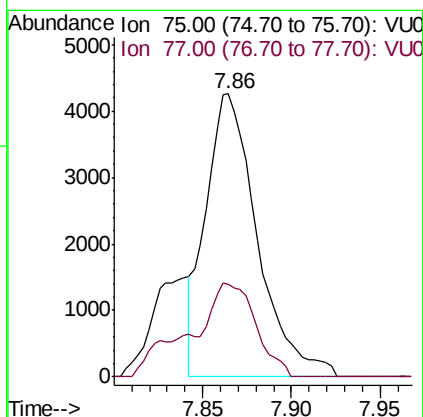
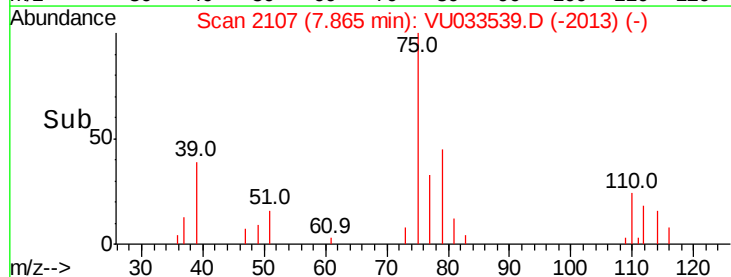
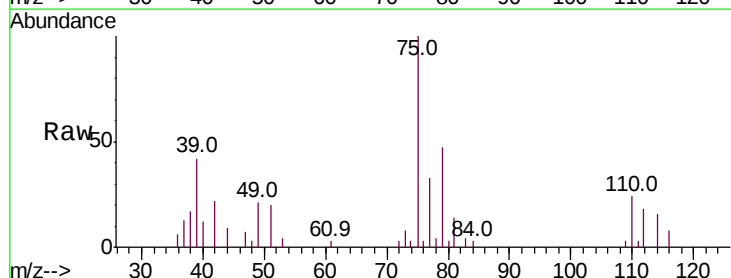
Acq: 01 Aug 2019 10:31

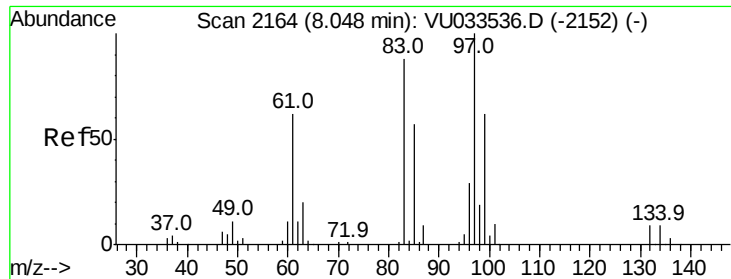
Tgt Ion: 75 Resp: 8620

Ion Ratio Lower Upper

75 100

77 32.8 22.7 42.1





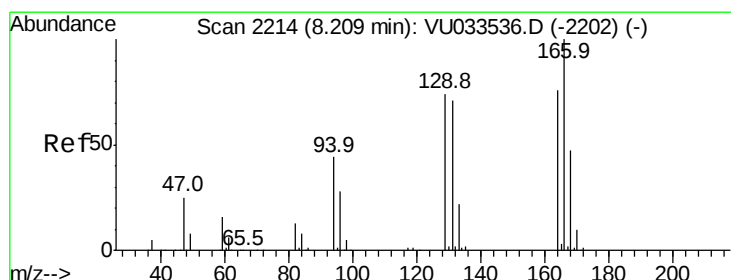
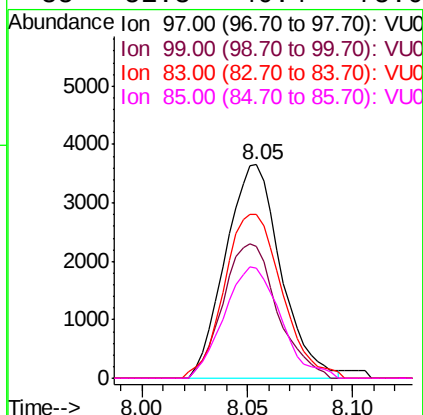
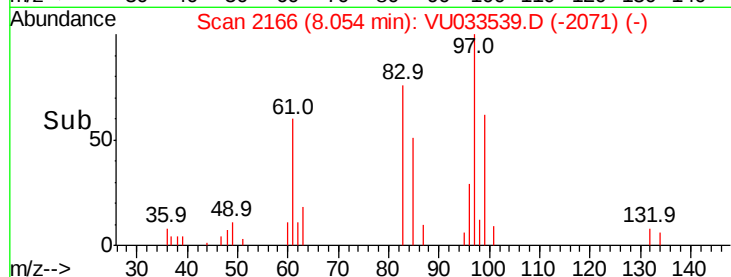
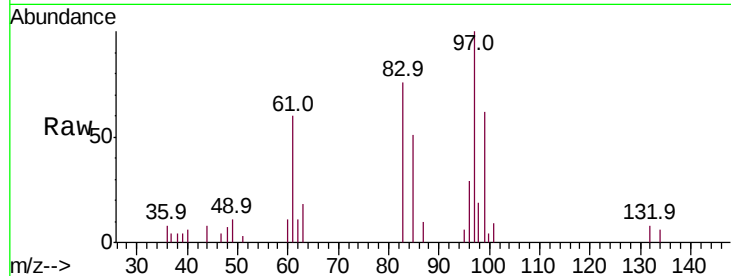
#45
1,1,2-Trichloroethane
Concen: 3.117 ug/L
RT: 8.05 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion:	97	Resp:	6671
Ion	Ratio	Lower	Upper
97	100		
99	61.8	44.4	82.4
83	76.4	61.5	114.1
85	51.3	40.4	75.0

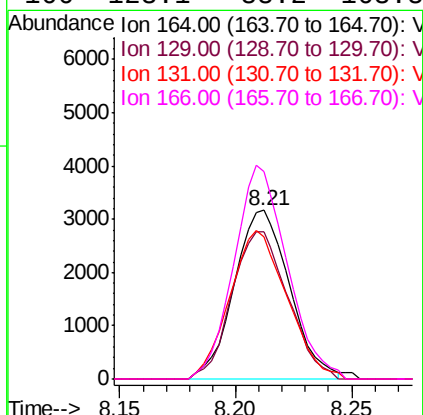
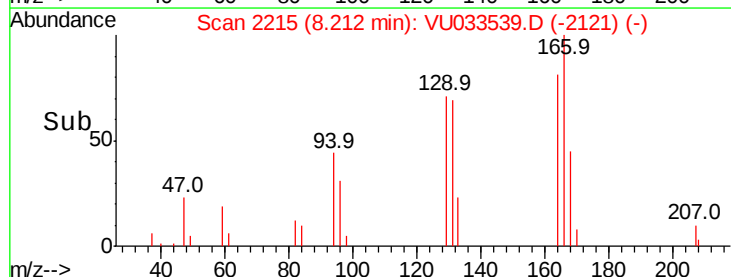
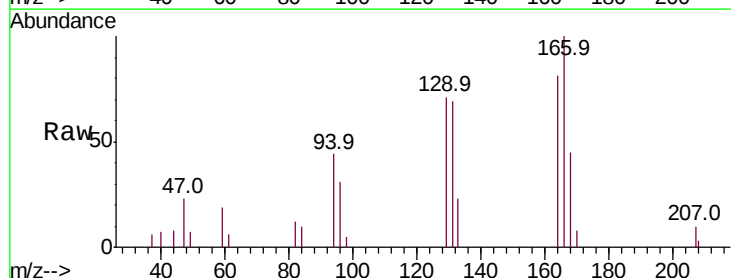
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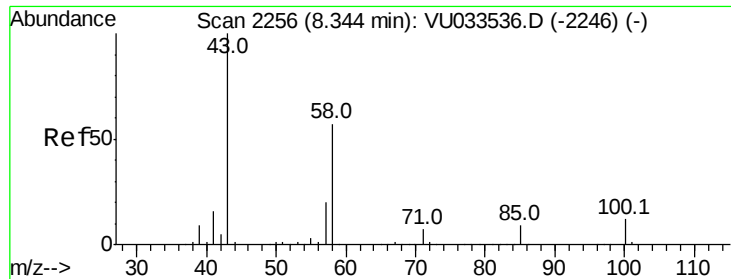
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#46
Tetrachloroethene
Concen: 2.901 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion:	164	Resp:	5263
Ion	Ratio	Lower	Upper
164	100		
129	87.6	65.5	121.7
131	84.4	63.3	117.7
166	123.1	88.2	163.8





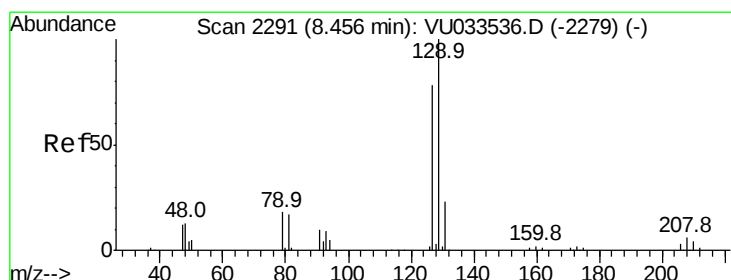
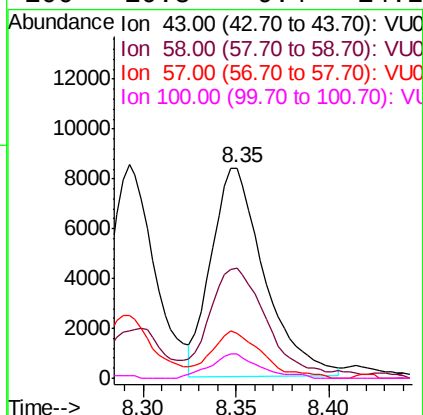
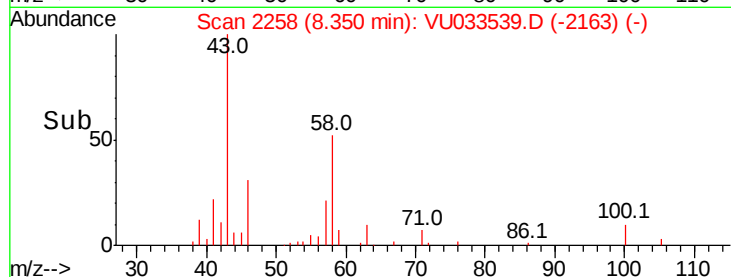
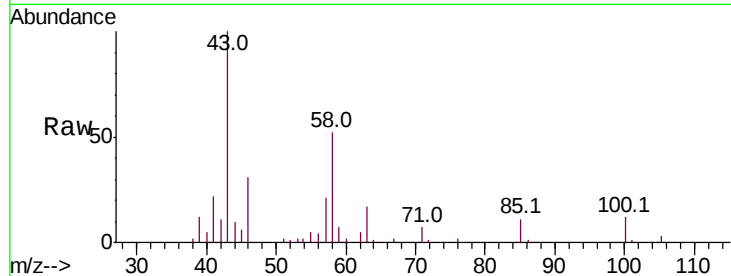
#48
2-Hexanone
Concen: 6.644 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.6	45.8	68.6
57	16.6	15.8	23.6
100	10.8	9.4	14.2

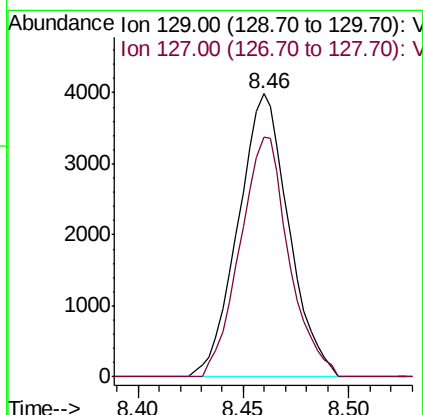
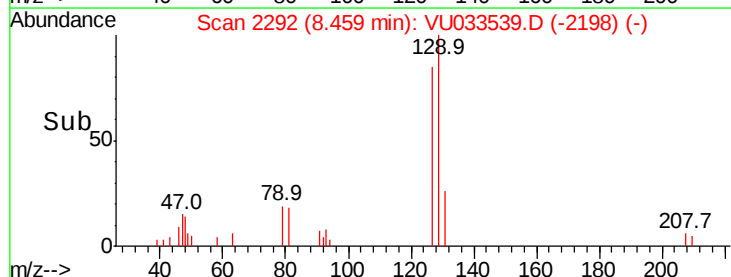
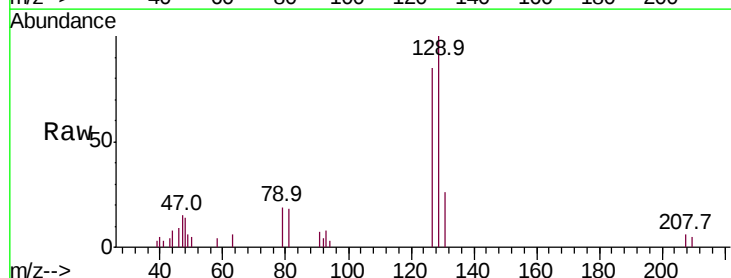
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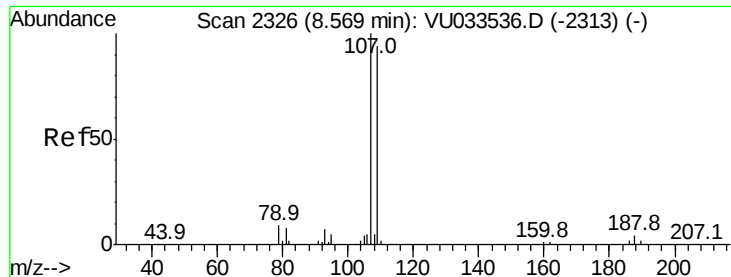
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#49
Dibromochloromethane
Concen: 2.736 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	84.7	53.8	99.8





#50

1,2-Dibromoethane

Concen: 3.022 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

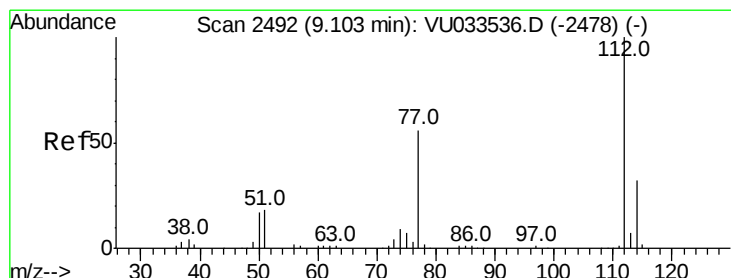
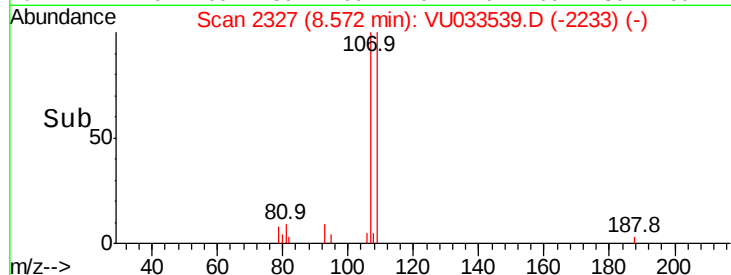
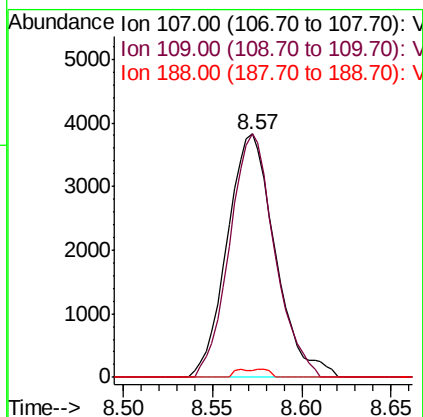
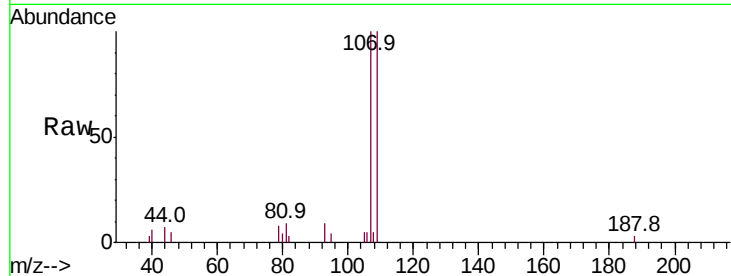
ClientSampleId :

MDL02

Tot Ion:	107	Resp:	7164
Ion Ratio	Lower	Upper	
107	100		
109	100.1	66.8	124.0
188	2.7	3.0	4.4#

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#51

Chlorobenzene

Concen: 2.896 ug/L

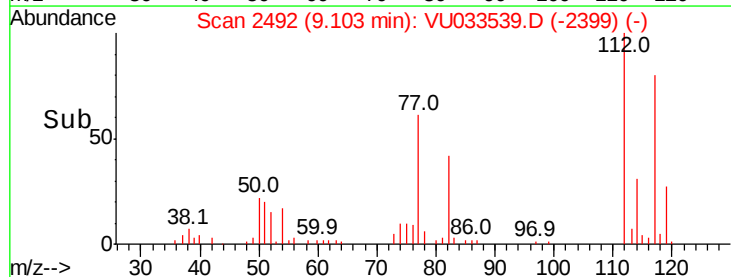
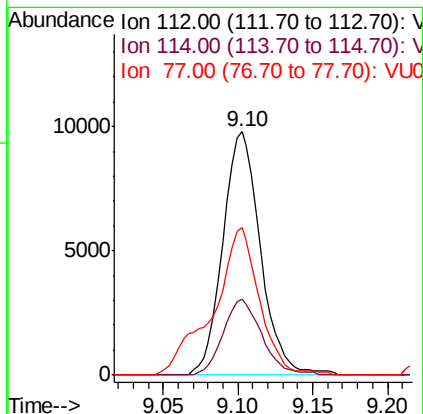
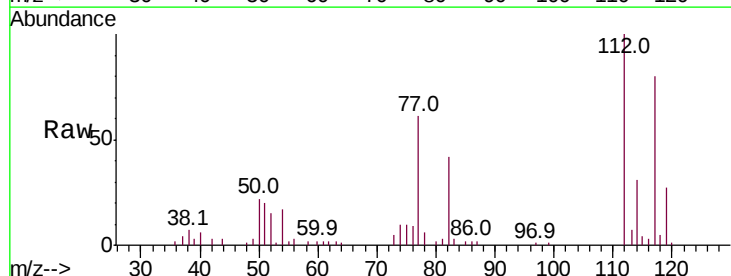
RT: 9.10 min Scan# 2492

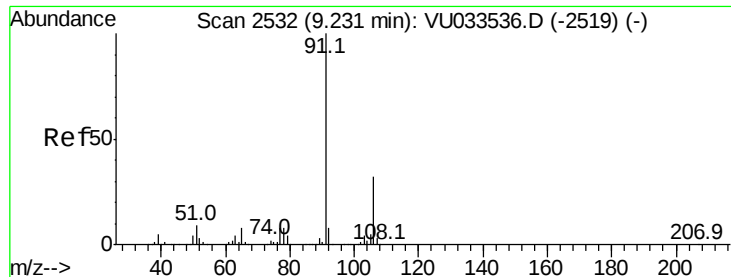
Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Tgt Ion:	112	Resp:	17171
Ion Ratio	Lower	Upper	
112	100		
114	31.3	22.3	41.5
77	60.8	45.6	68.4





#52

Ethylbenzene

Concen: 2.570 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 91 Resp: 25062

Ion Ratio Lower Upper

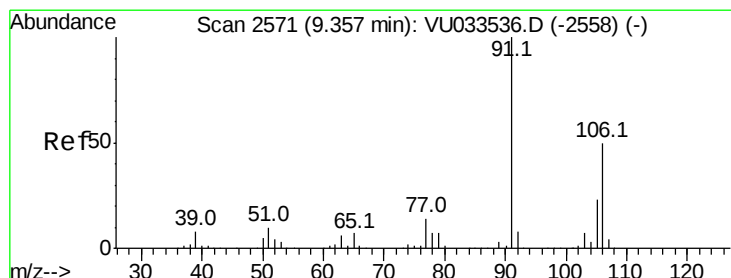
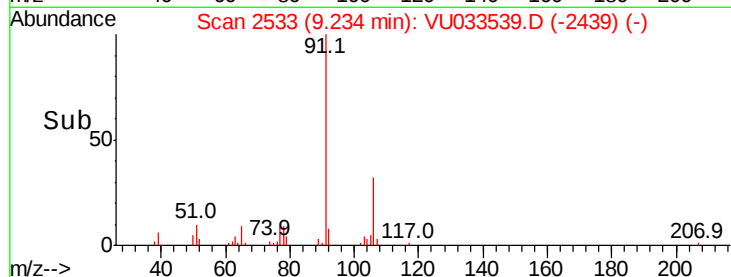
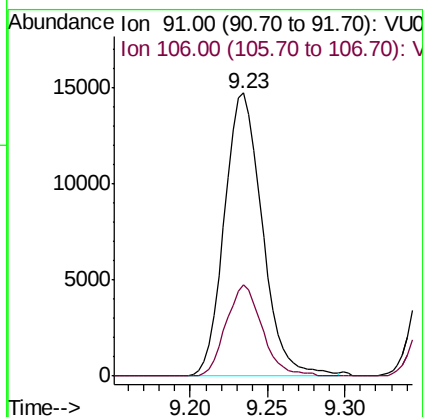
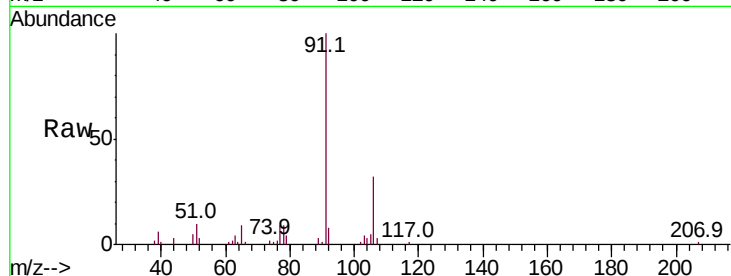
91 100

106 32.2 22.2 41.2

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#53

m,p-Xylene

Concen: 2.573 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033539.D

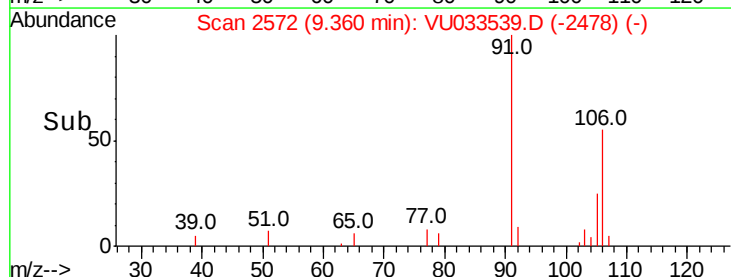
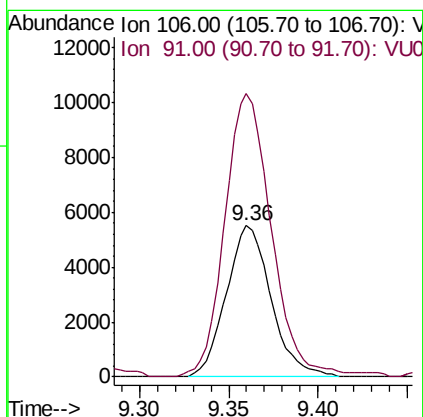
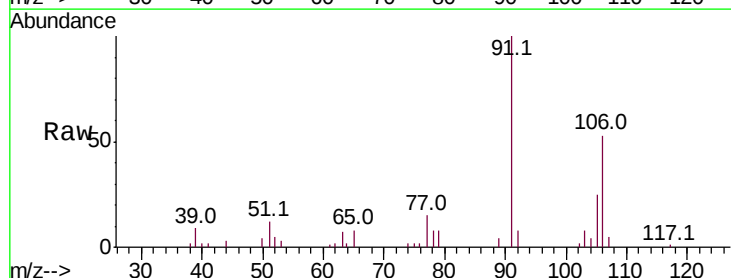
Acq: 01 Aug 2019 10:31

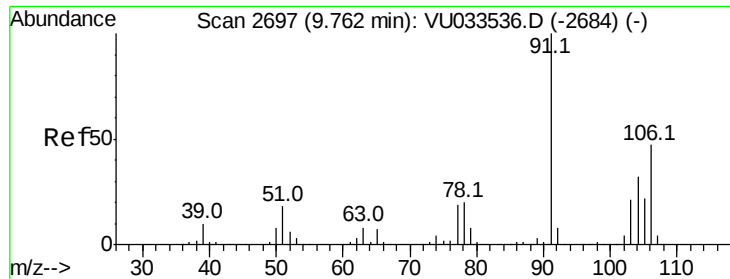
Tgt Ion: 106 Resp: 9634

Ion Ratio Lower Upper

106 100

91 187.0 143.0 265.6





#54

o-xylene

Concen: 2.482 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:106 Resp: 9013

Ion Ratio Lower Upper

106 100

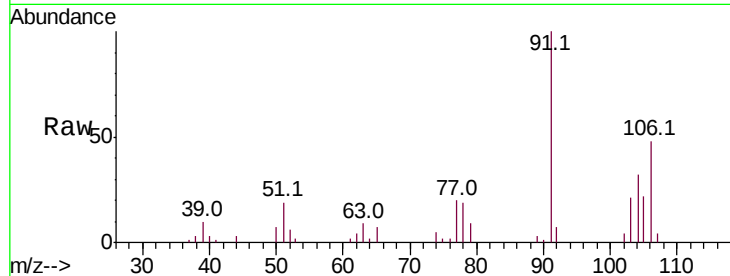
91 207.4 148.4 275.6

Manual Integrations

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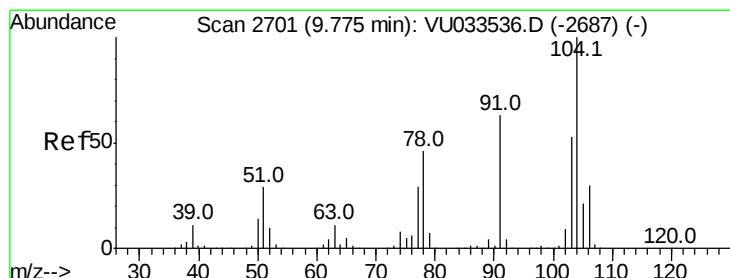
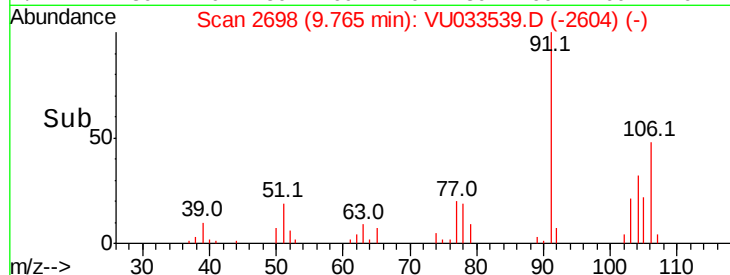
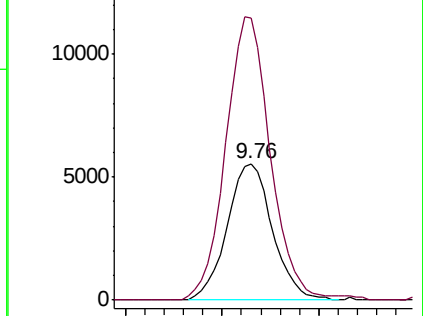
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.130 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033539.D

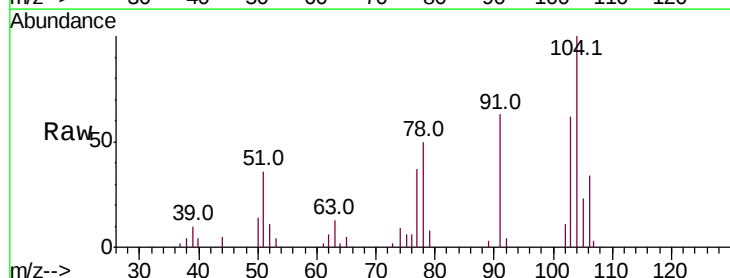
Acq: 01 Aug 2019 10:31

Tgt Ion:104 Resp: 13142

Ion Ratio Lower Upper

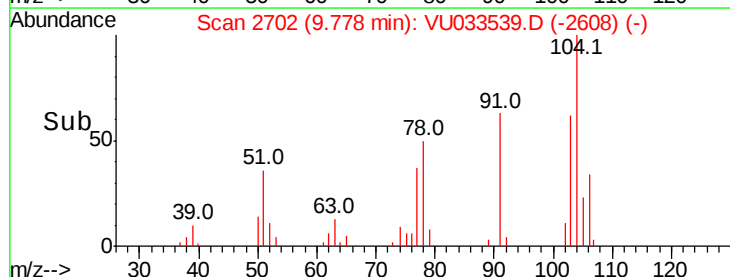
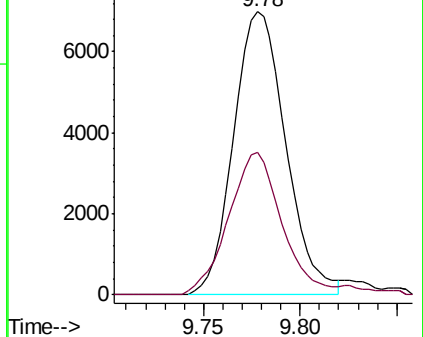
104 100

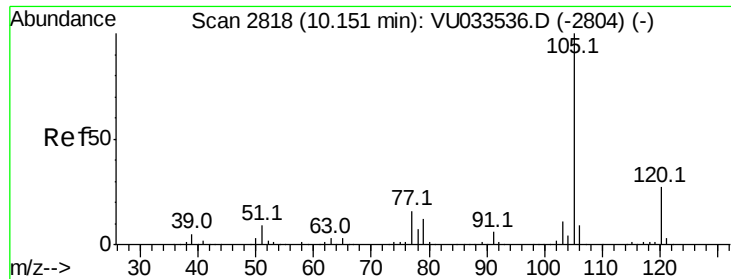
78 50.2 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.288 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

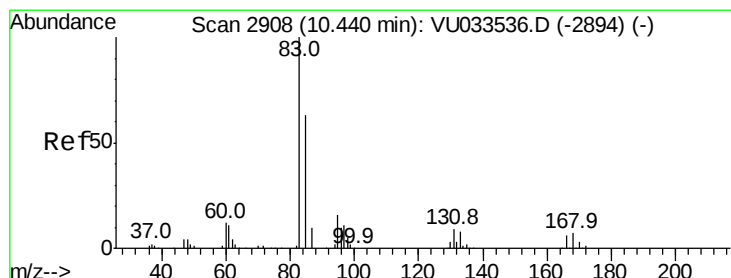
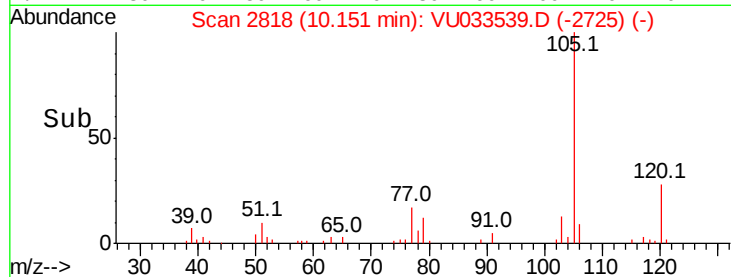
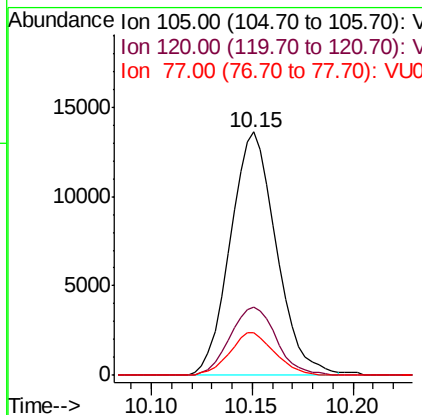
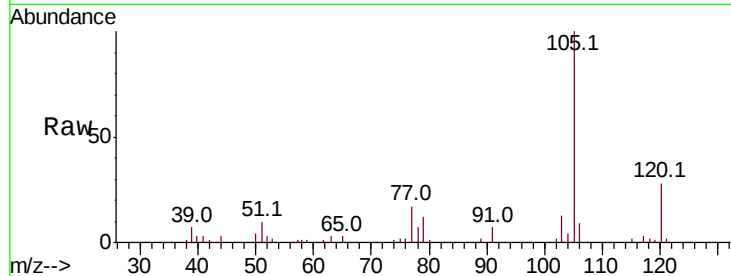
ClientSampled :

MDL02

Tot Ion:	105	Resp:	21712
Ion Ratio	Lower	Upper	
105	100		
120	28.2	21.4	32.0
77	17.2	12.5	18.7

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.946 ug/L

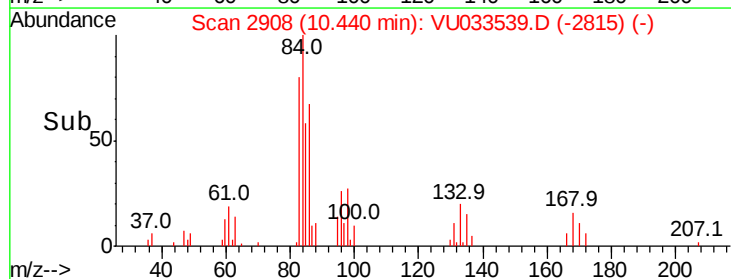
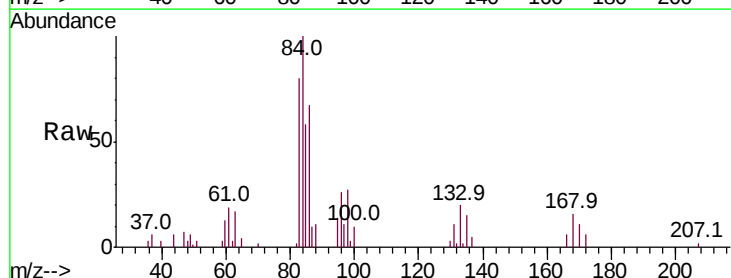
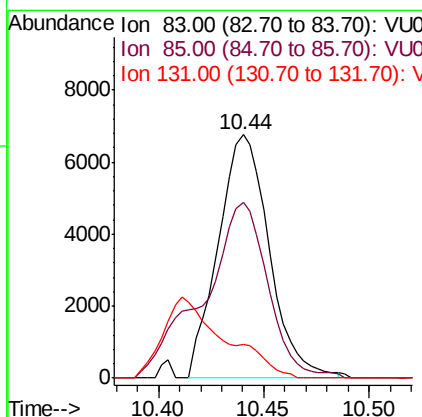
RT: 10.44 min Scan# 2908

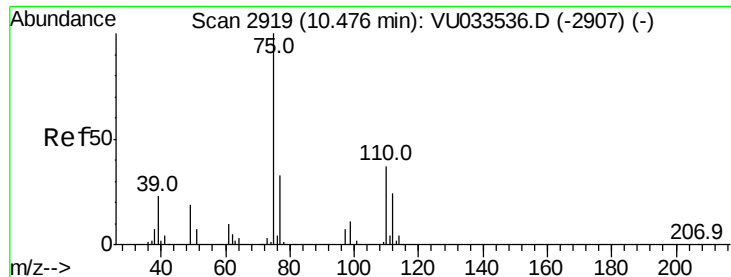
Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Tgt Ion:	83	Resp:	11372
Ion Ratio	Lower	Upper	
83	100		
85	72.1	45.4	84.4
131	13.9	7.9	11.9#





#59

1,2,3-Trichloropropane

Concen: 2.899 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 75 Resp: 8627

Ion Ratio Lower Upper

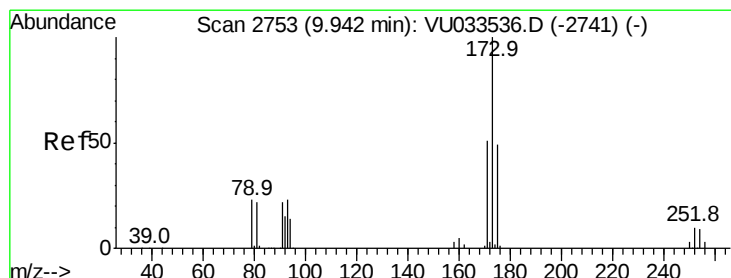
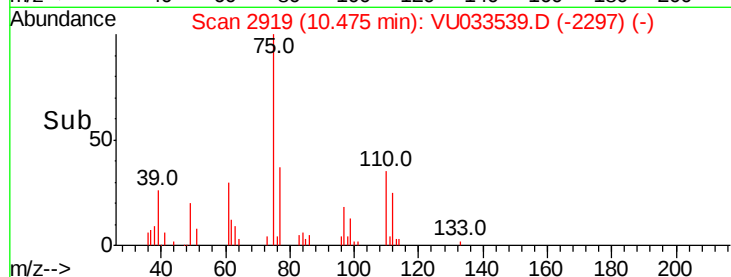
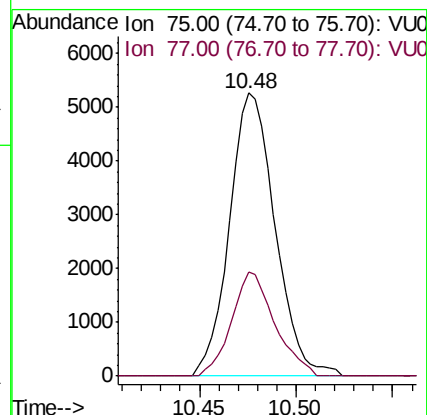
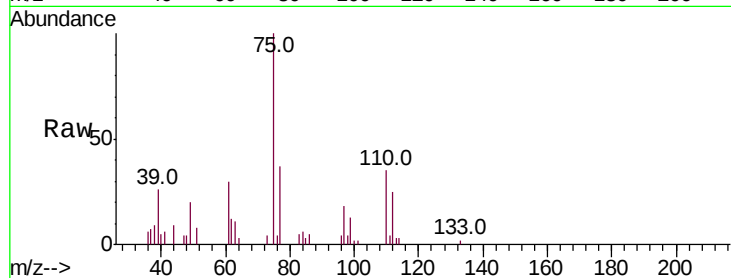
75 100

77 34.8 25.8 38.6

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#61

Bromoform

Concen: 2.839 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

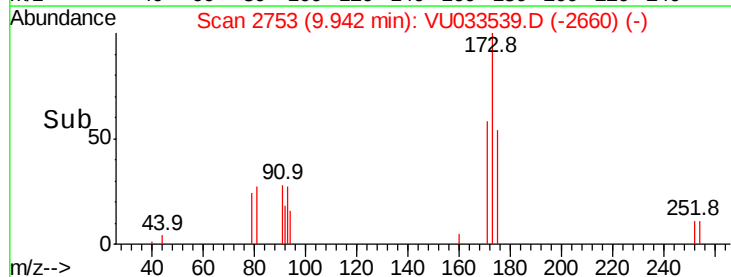
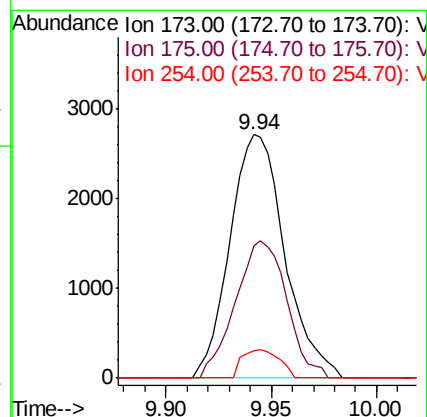
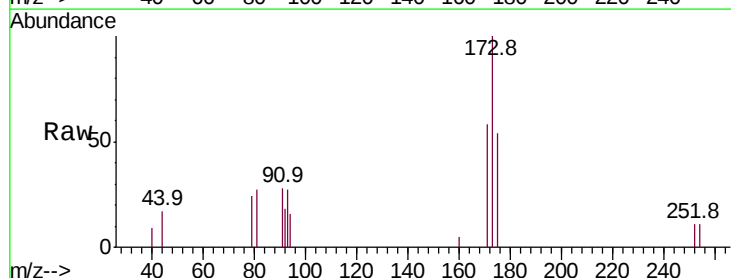
Tgt Ion: 173 Resp: 4904

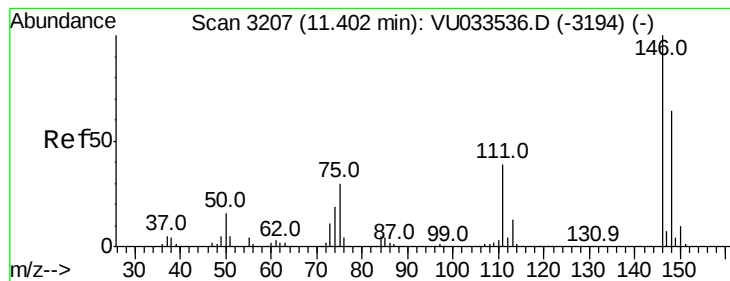
Ion Ratio Lower Upper

173 100

175 52.3 38.7 58.1

254 7.9 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 2.746 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion:146 Resp: 12059

Ion Ratio Lower Upper

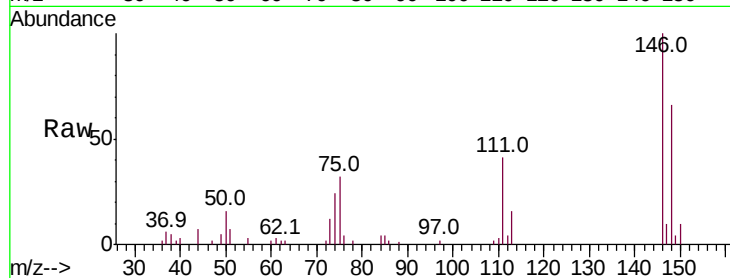
146 100

111 41.2 28.1 52.1

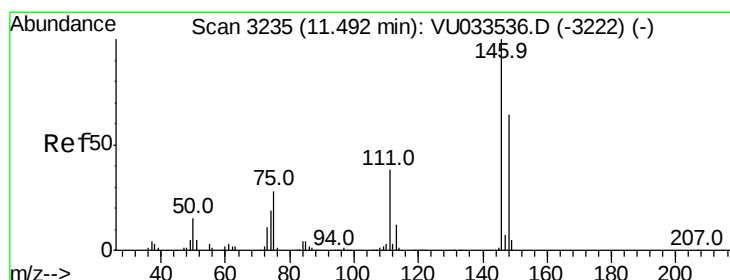
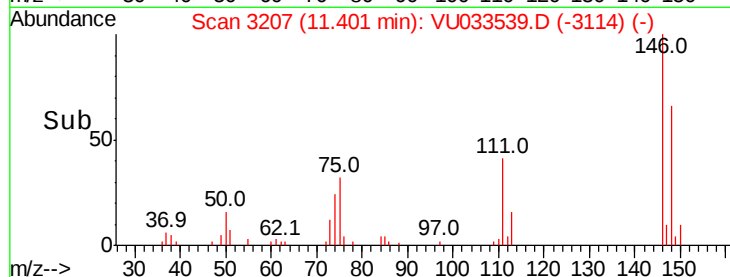
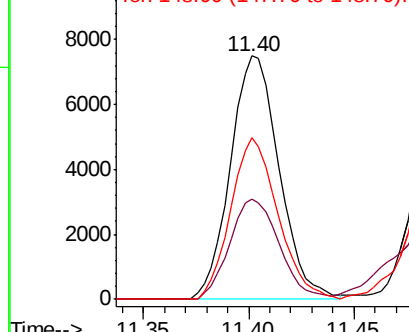
148 66.4 45.0 83.6

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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



#63

1,4-Dichlorobenzene

Concen: 2.896 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033539.D

Acq: 01 Aug 2019 10:31

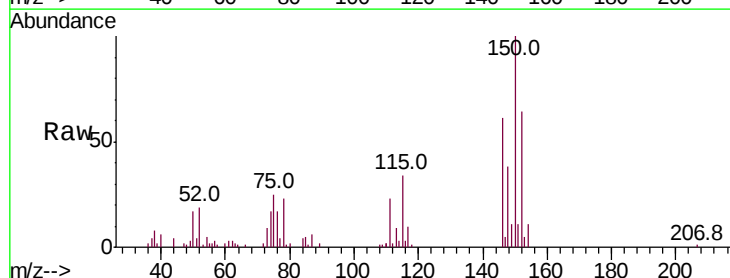
Tgt Ion:146 Resp: 13214

Ion Ratio Lower Upper

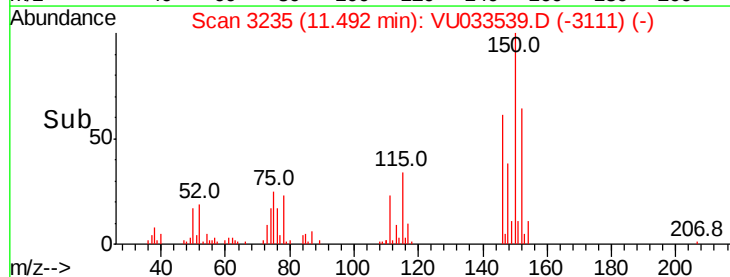
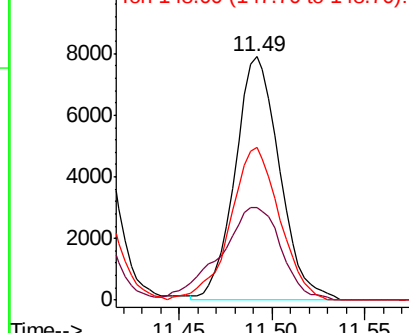
146 100

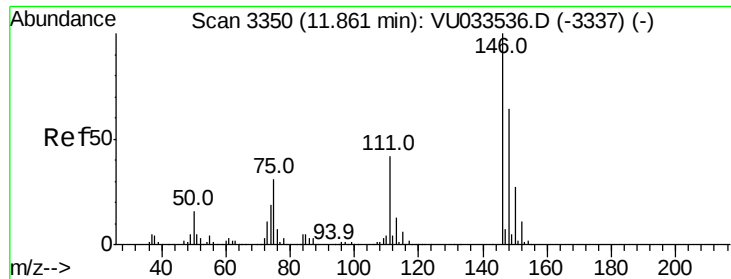
111 37.8 27.2 50.4

148 62.6 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





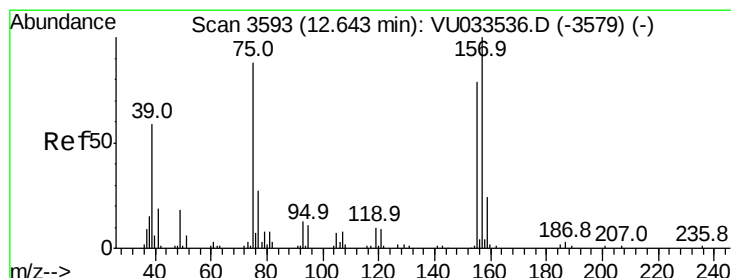
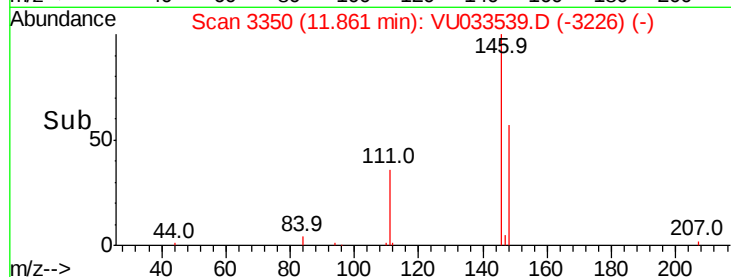
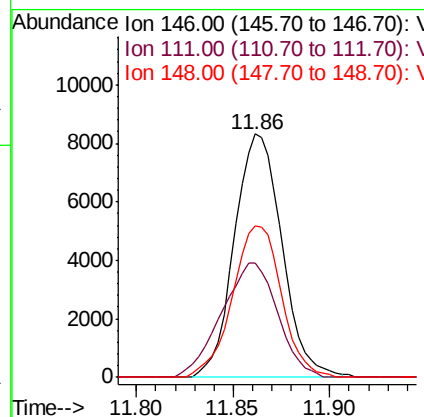
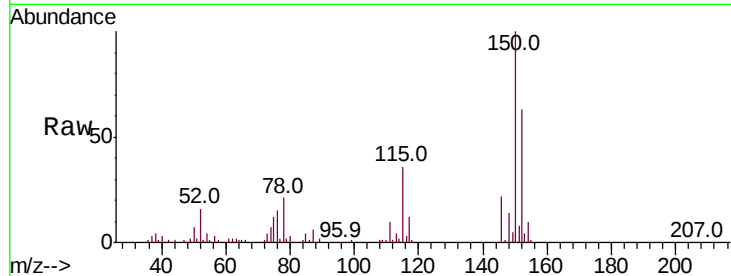
#65
 1,2-Dichlorobenzene
 Concen: 3.199 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	31.7	47.5
148	62.1	50.3	75.5

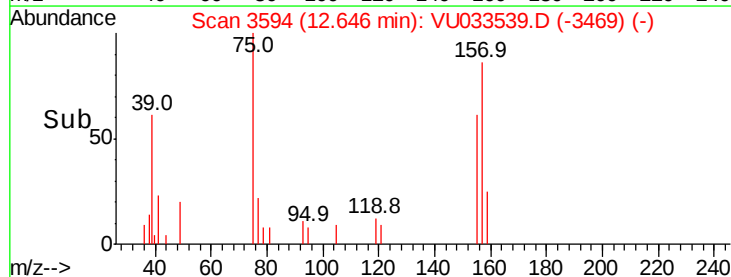
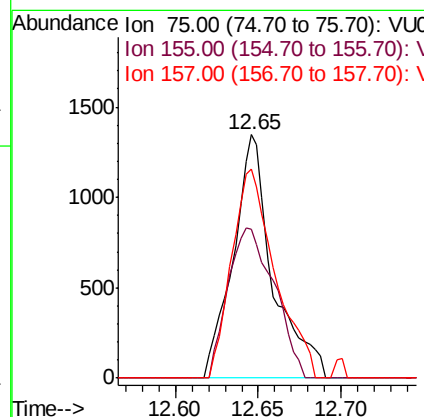
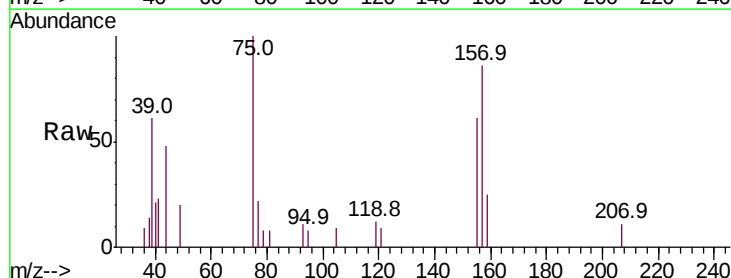
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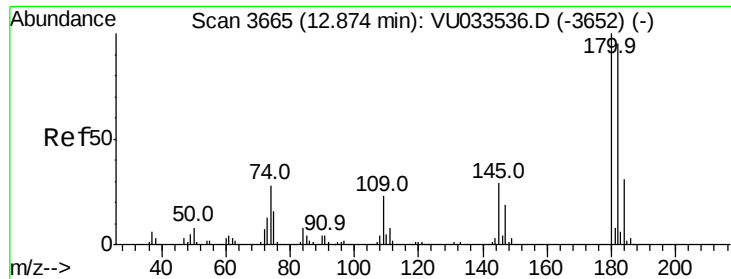
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.740 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	61.2	69.4	104.0#
157	86.1	91.8	137.8#





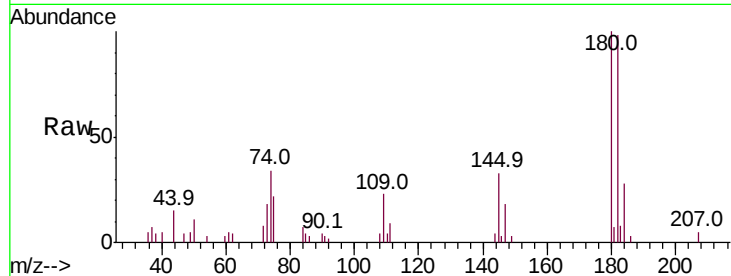
#67
 1,3,5-Trichlorobenzene
 Concen: 2.483 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

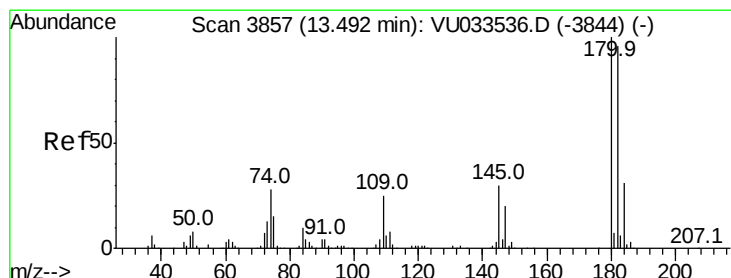
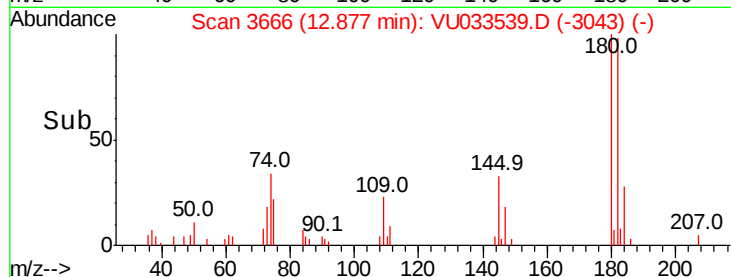
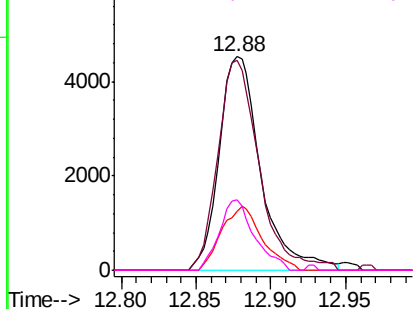
Tot Ion:	180	Resp:	8798
Ion Ratio	Lower	Upper	
180	100		
182	97.0	75.6	113.4
184	29.1	24.2	36.2
145	27.7	22.7	34.1

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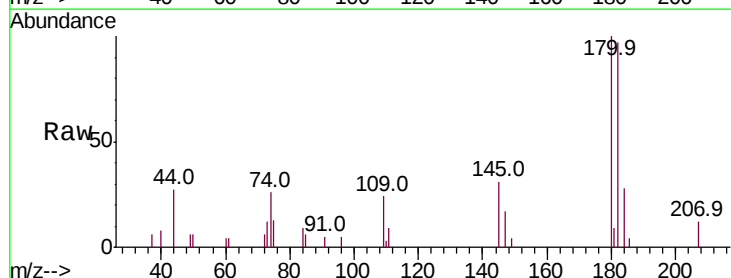


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

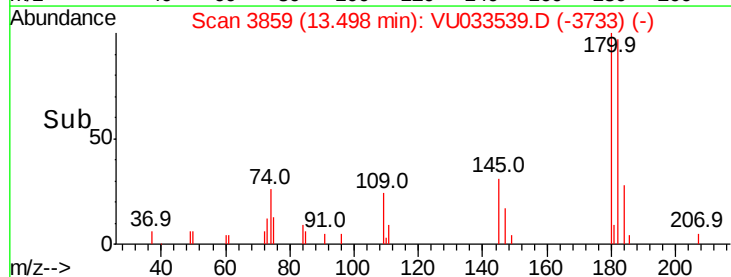
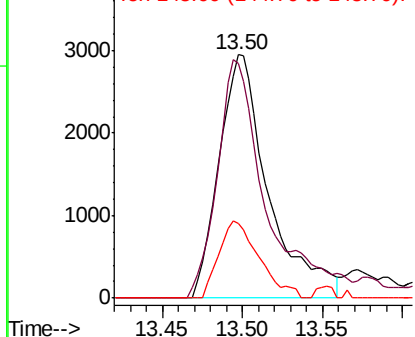


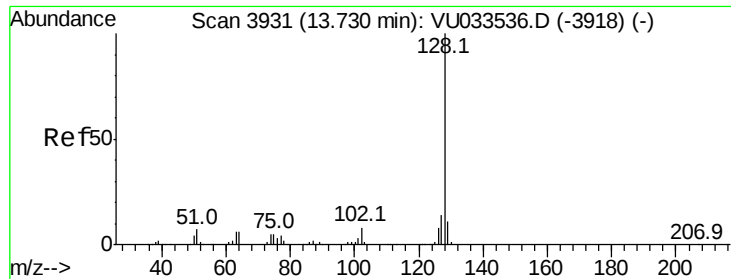
#68
 1,2,4-trichlorobenzene
 Concen: 2.073 ug/L m
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033539.D
 Acq: 01 Aug 2019 10:31

Tgt Ion:	180	Resp:	6276
Ion Ratio	Lower	Upper	
180	100		
182	84.2	75.8	113.8
145	24.6	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





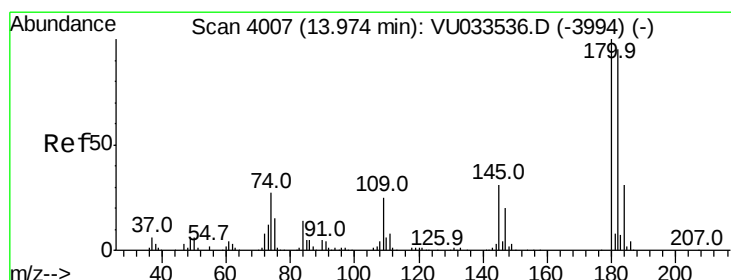
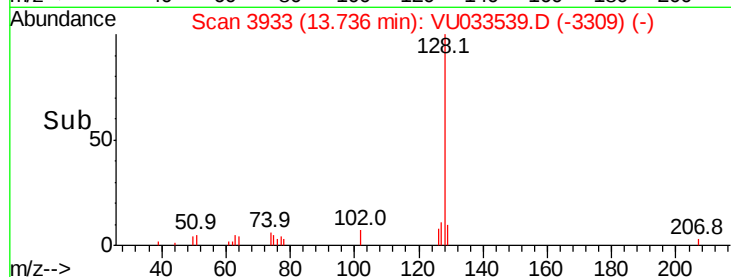
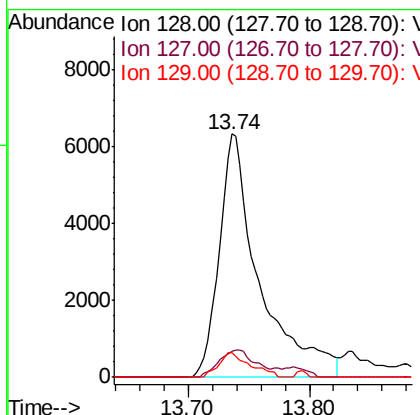
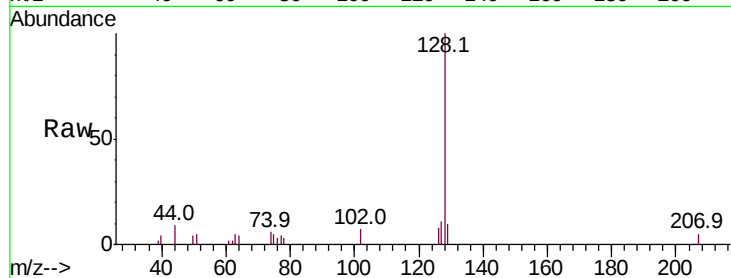
#69
Naphthalene
Concen: 1.672 ug/L m
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.2	10.8	16.2#
129	6.7	8.7	13.1#

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#70
1,2,3-Trichlorobenzene
Concen: 2.226 ug/L m
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033539.D
Acq: 01 Aug 2019 10:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.3	75.5	113.3
145	25.2	24.4	36.6

