

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102419\
 Data File : VL034355.D
 Acq On : 24 Oct 2019 22:11
 Operator : SY/AP
 Sample : K5516-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Manual Integrations
 APPROVED

MMDadoda
 10/28/2019 9:43:52 AM

Quant Time: Oct 27 19:47:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	844126	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1776423	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.14	117	1728523	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1414860	9.66	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	79237	0.545	ppbv	95
3) Chlorodifluoromethane	2.96	51	38756m	0.392	ppbv	
4) Chloromethane	3.12	50	27433	0.469	ppbv	89
9) Propene	3.00	41	63525	1.448	ppbv #	75
10) Heptane	8.16	43	45348	0.403	ppbv	92
11) Trichlorofluoromethane	3.94	101	29166	0.211	ppbv #	81
13) Ethanol	3.59	45	1470058	149.702	ppbv	96
15) Acetone	3.84	43	366839m	3.038	ppbv	
19) Isopropyl Alcohol	3.97	45	70059m	1.040	ppbv	
20) Methylene Chloride	4.34	84	107037	2.452	ppbv	94
26) Hexane	5.70	57	259066	2.982	ppbv #	44
30) Cyclohexane	7.16	84	16356m	0.256	ppbv	
34) 2-Butanone	5.26	43	40858	0.281	ppbv	99
35) Carbon Tetrachloride	7.05	117	9785m	0.063	ppbv	
36) Benzene	6.92	78	119054	0.699	ppbv	94
44) 2,2,4-Trimethylpentane	7.91	57	73121	0.232	ppbv #	80
52) Tetrachloroethene	11.27	164	9465m	0.142	ppbv	
53) Toluene	9.85	91	580638	3.087	ppbv	98
58) Ethyl Benzene	12.77	91	99586m	0.412	ppbv	
59) m/p-Xylene	13.02	91	327757	1.566	ppbv	99
60) o-Xylene	13.75	91	104120	0.499	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	112824m	0.466	ppbv	
79) Naphthalene	22.31	128	18752m	0.106	ppbv	

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

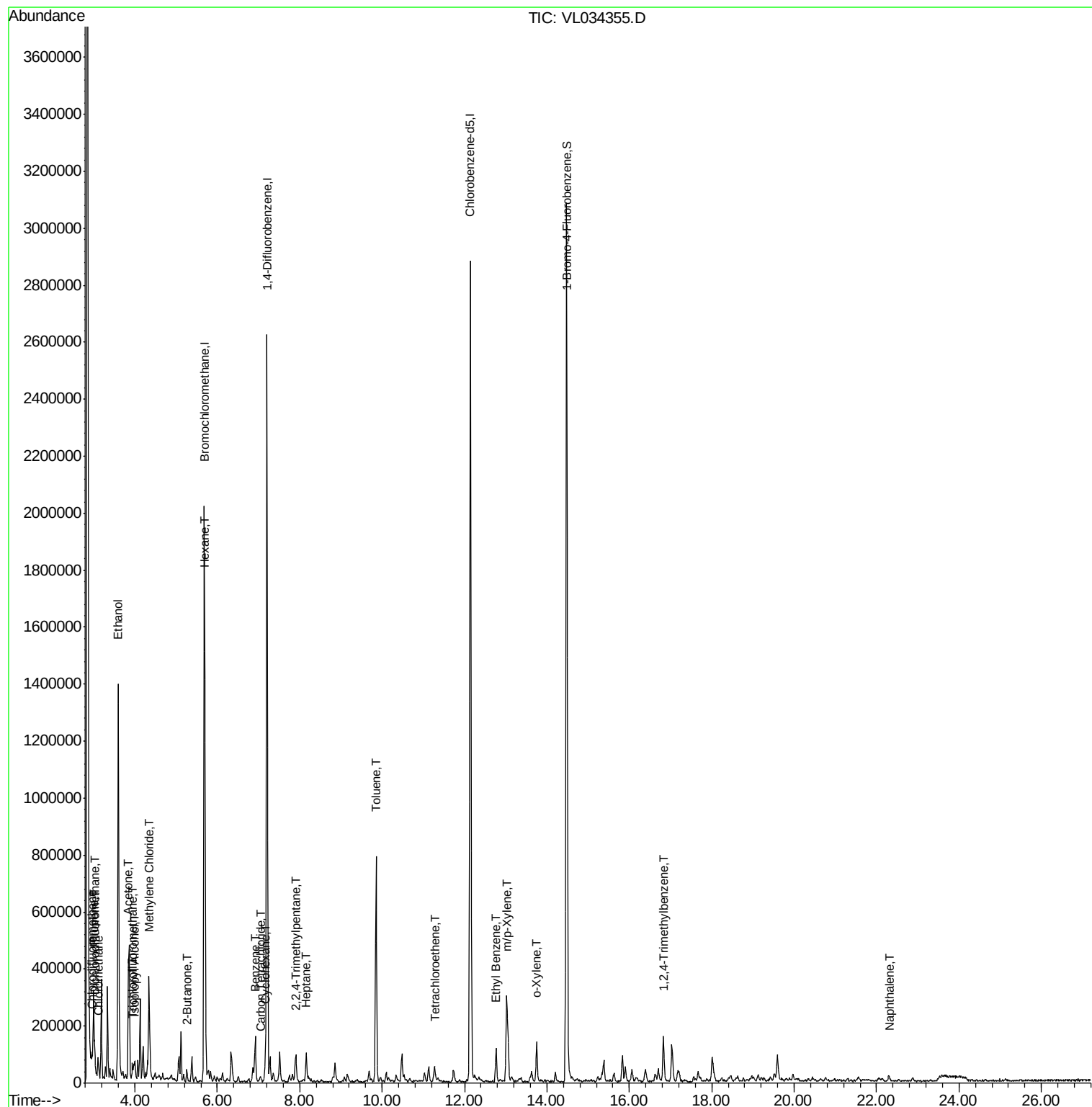
Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102419\
Data File : VL034355.D
Acq On : 24 Oct 2019 22:11
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

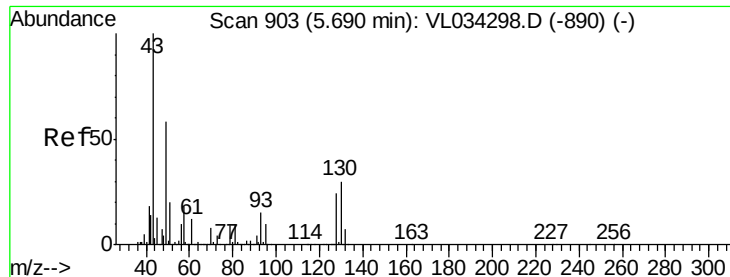
Instrument :
MSVOA_L
ClientSampleId :
SV-2

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10/28/2019 9:43:52 AM

Quant Time: Oct 27 19:47:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Instrument :

MSVOA_L

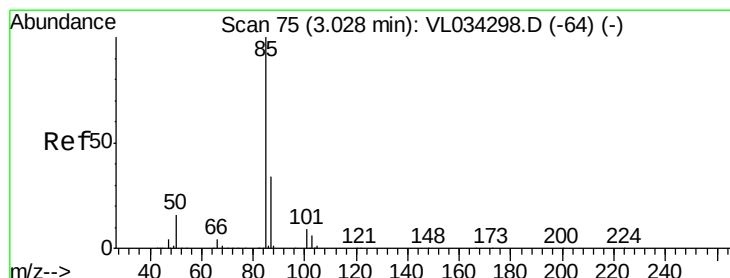
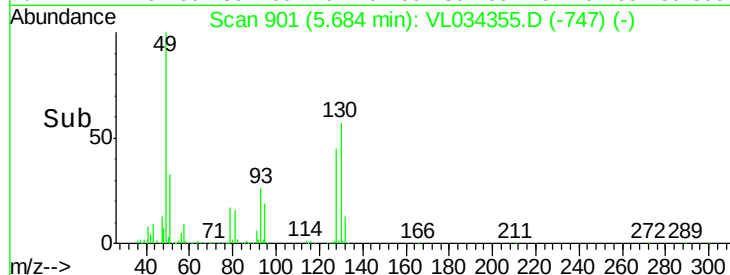
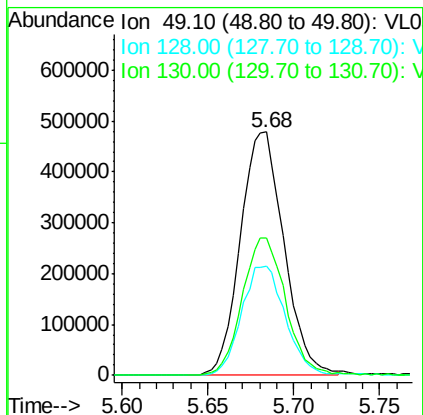
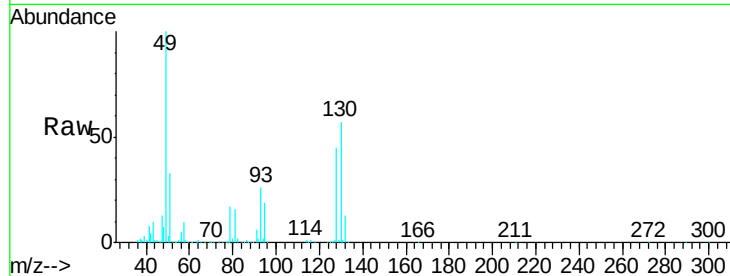
ClientSampled :

SV-2

Tgt Ion:	49	Resp:	844126
Ion	Ratio	Lower	Upper
49	100		
128	45.7	20.6	61.8
130	56.7	26.2	78.5

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#2

Dichlorodifluoromethane

Concen: 0.545 ppbv

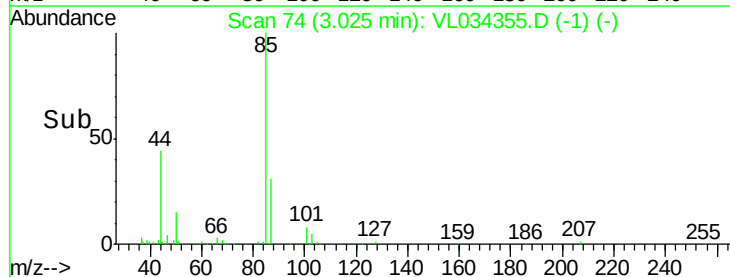
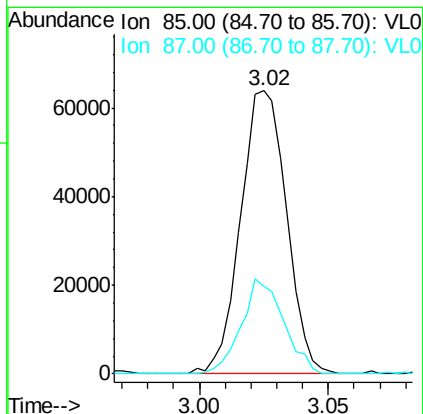
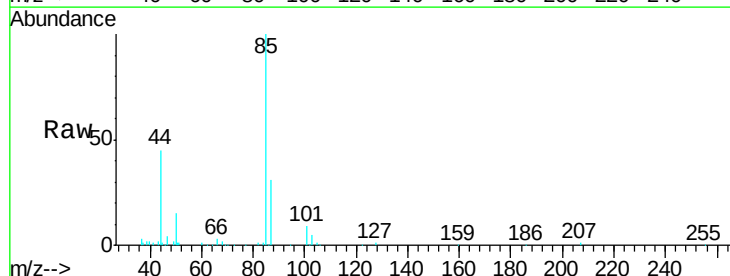
RT: 3.02 min Scan# 74

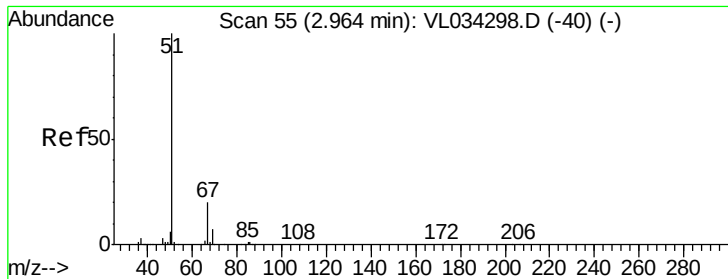
Delta R.T. -0.00 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Tgt Ion:	85	Resp:	79237
Ion	Ratio	Lower	Upper
85	100		
87	30.9	27.0	40.6





#3

Chlorodifluoromethane

Concen: 0.392 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tgt Ion: 51 Resp: 38756

Ion Ratio Lower Upper

51 100

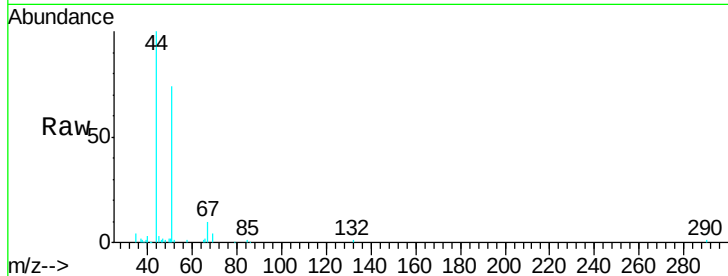
67 20.1 15.8 23.8

Manual Integrations

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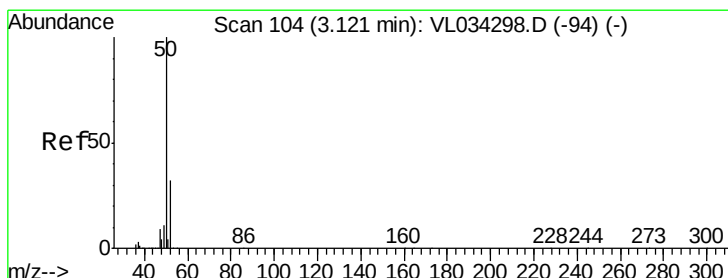
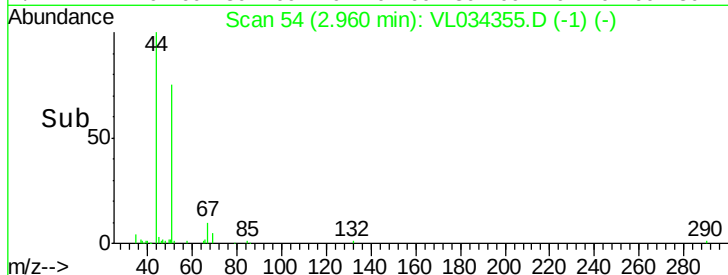
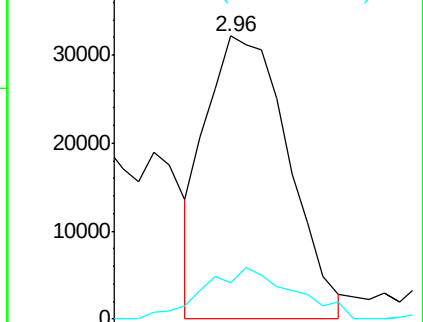
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.469 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.00 min

Lab File: VL034355.D

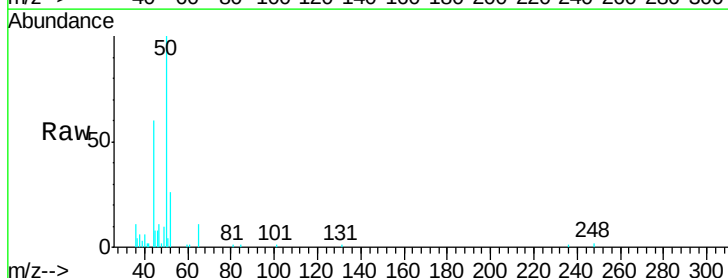
Acq: 24 Oct 2019 22:11

Tgt Ion: 50 Resp: 27433

Ion Ratio Lower Upper

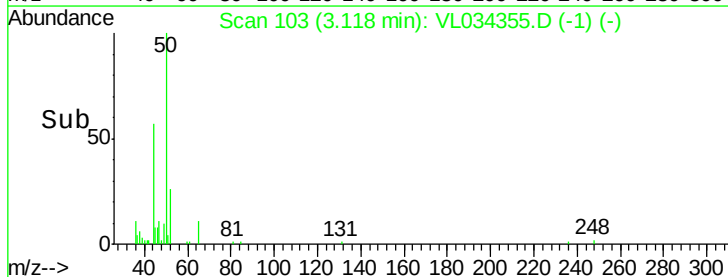
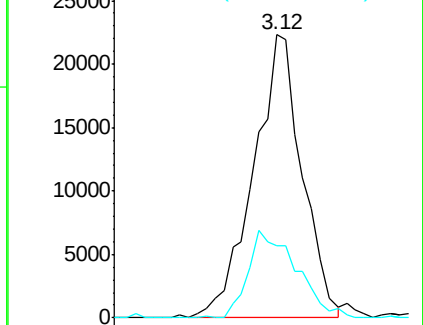
50 100

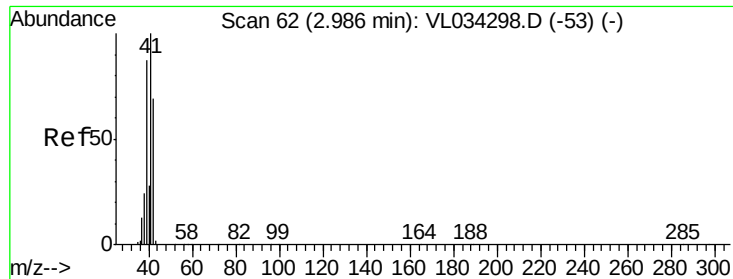
52 25.7 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.448 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tgt Ion: 41 Resp: 63525

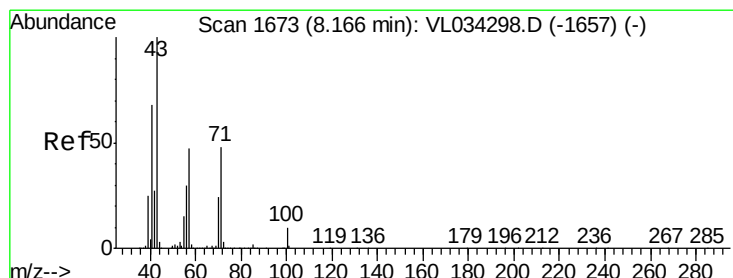
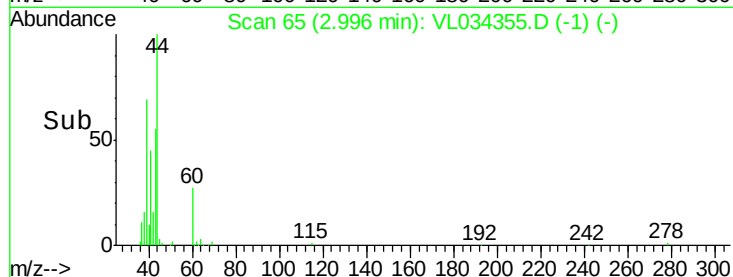
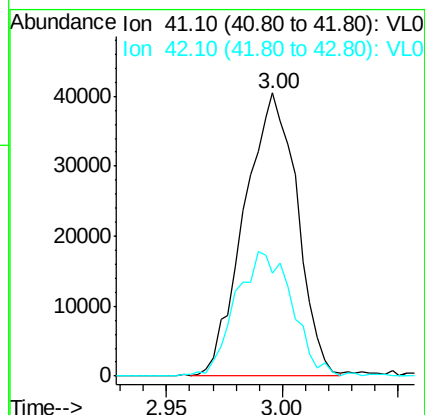
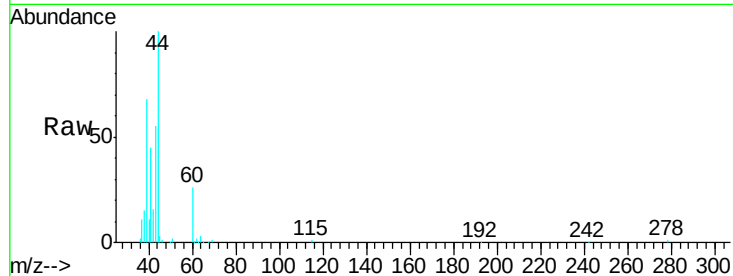
Ion Ratio Lower Upper

41 100

42 47.7 53.9 80.9#

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#10

Heptane

Concen: 0.403 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VL034355.D

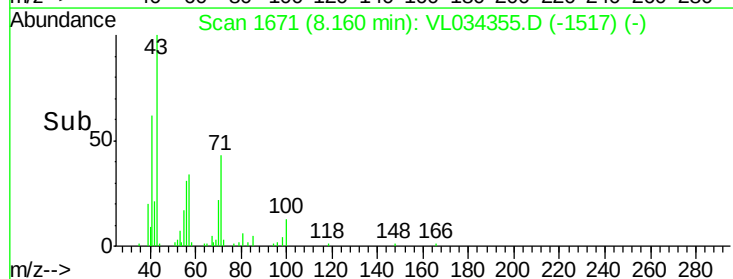
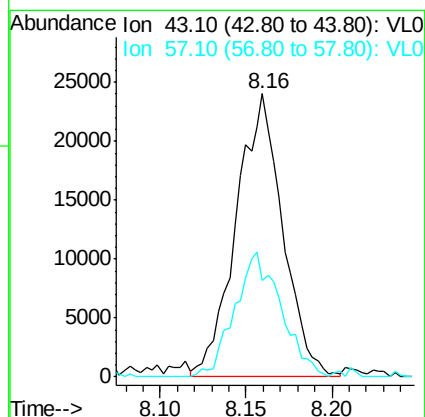
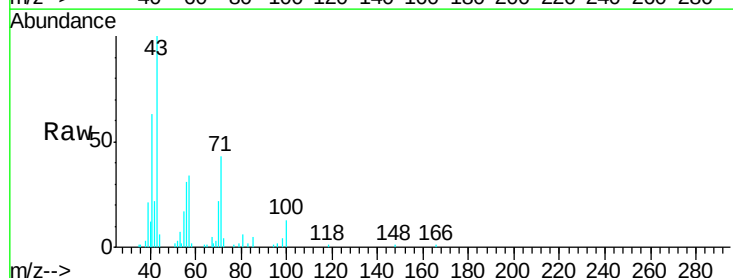
Acq: 24 Oct 2019 22:11

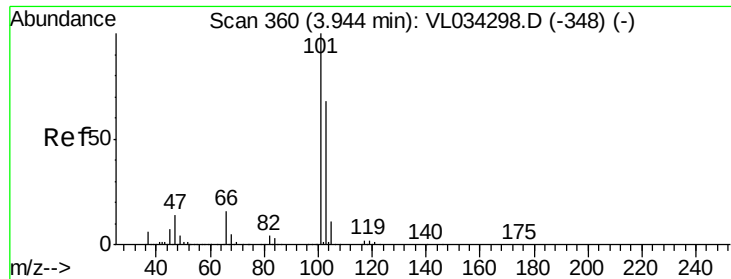
Tgt Ion: 43 Resp: 45348

Ion Ratio Lower Upper

43 100

57 44.1 39.5 59.3





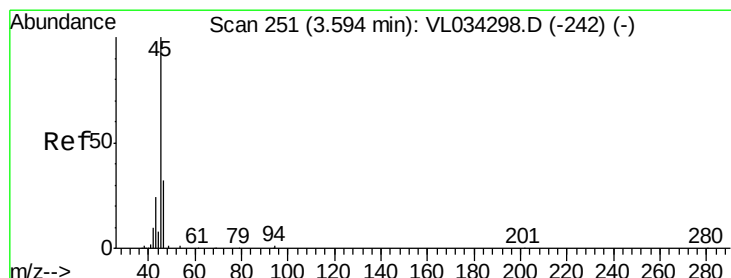
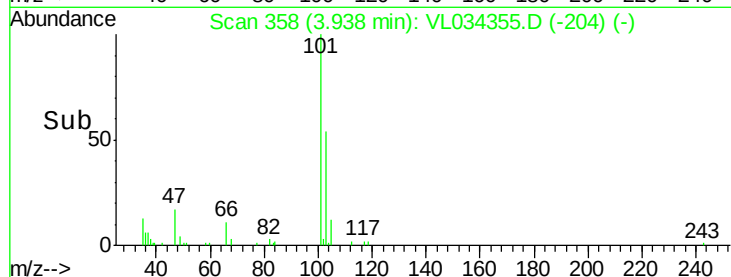
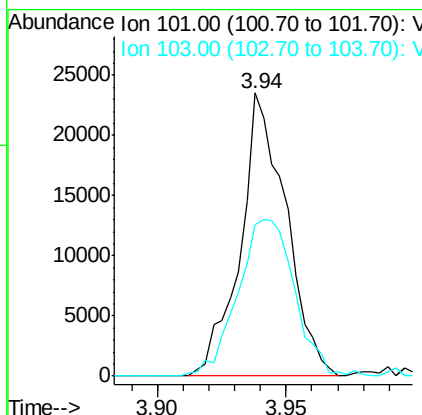
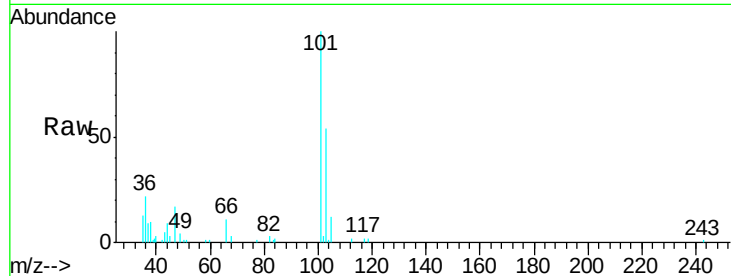
#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL034355.D
 Acq: 24 Oct 2019 22:11

Instrument :
 MSVOA_L
 ClientSampled :
 SV-2

Tgt Ion: 101 Resp: 29166
 Ion Ratio Lower Upper
 101 100
 103 52.4 54.5 81.7#

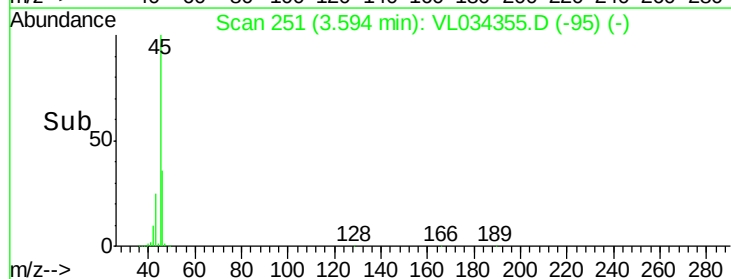
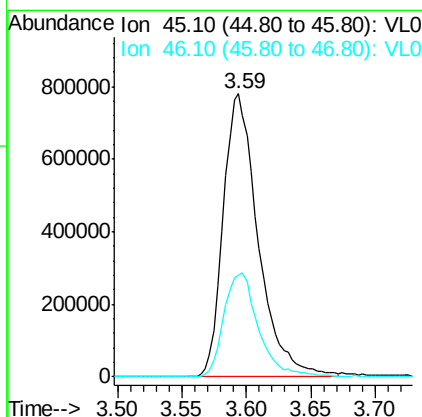
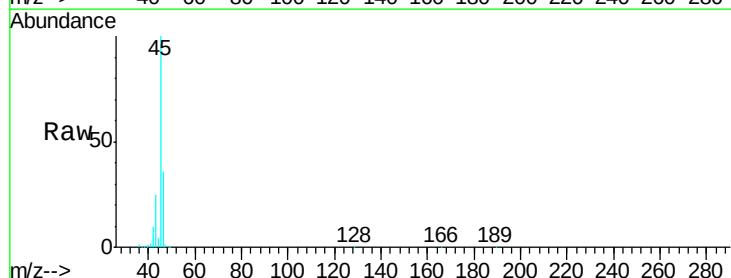
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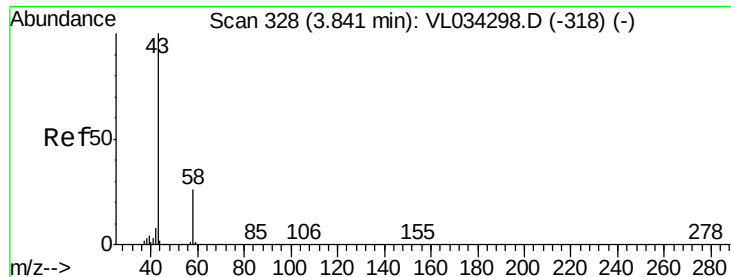
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#13
 Ethanol
 Concen: 149.702 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. 0.00 min
 Lab File: VL034355.D
 Acq: 24 Oct 2019 22:11

Tgt Ion: 45 Resp: 1470058
 Ion Ratio Lower Upper
 45 100
 46 37.0 15.8 63.2





#15

Acetone

Concen: 3.038 ppbv m

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tgt Ion: 43 Resp: 366839

Ion Ratio Lower Upper

43 100

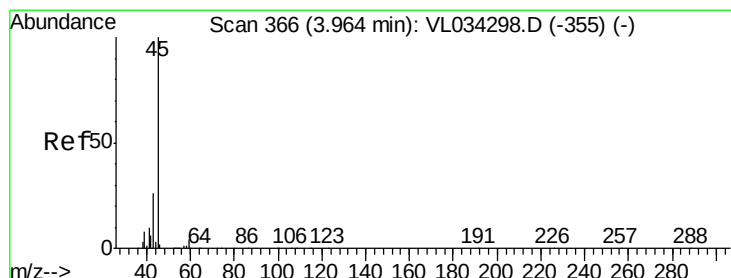
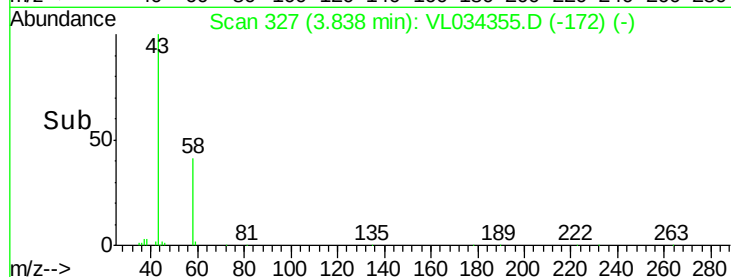
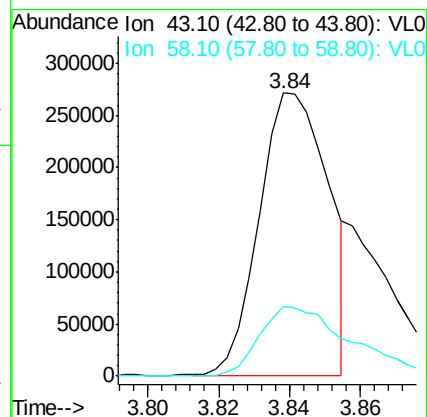
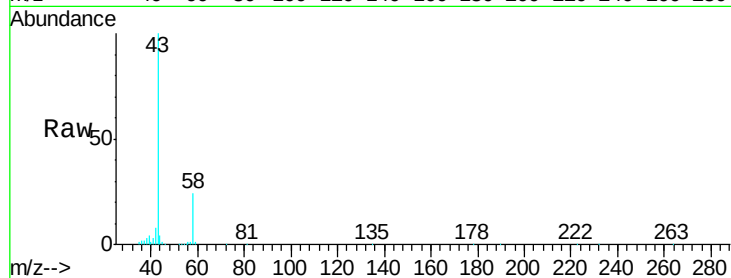
58 33.0 20.4 30.6#

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 1.040 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL034355.D

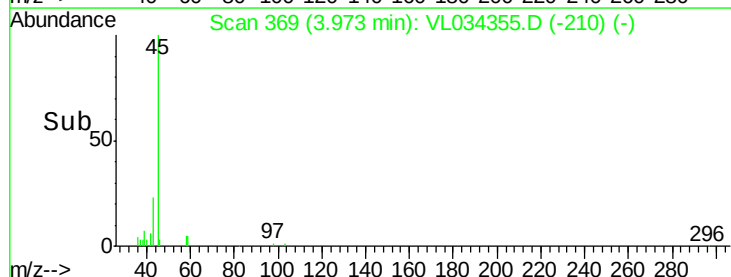
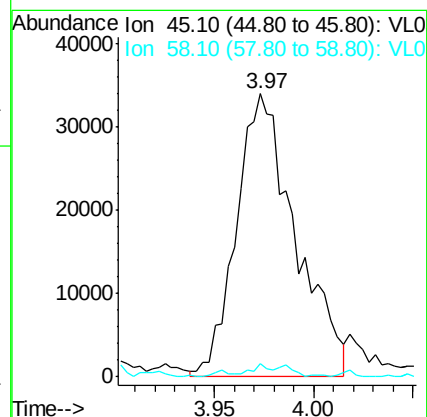
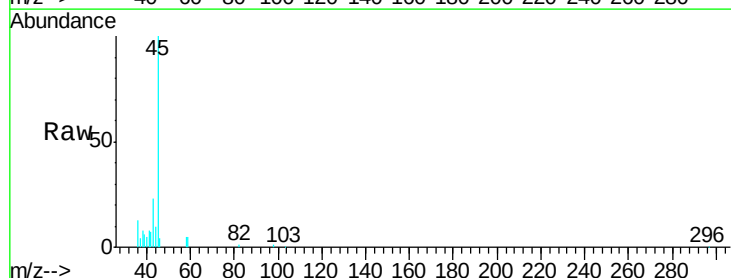
Acq: 24 Oct 2019 22:11

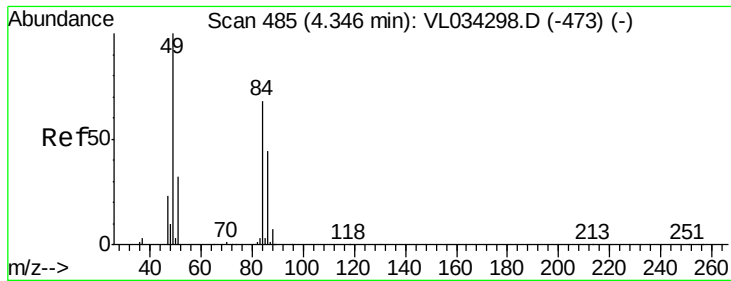
Tgt Ion: 45 Resp: 70059

Ion Ratio Lower Upper

45 100

58 173.0 1.4 2.2#





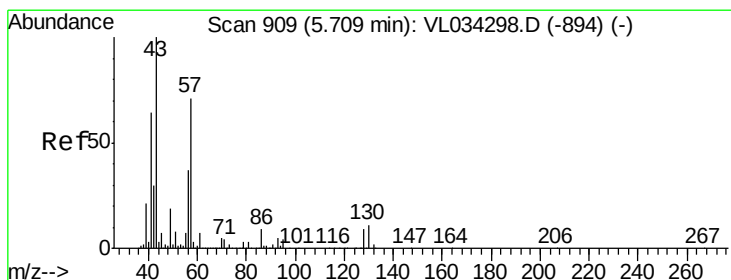
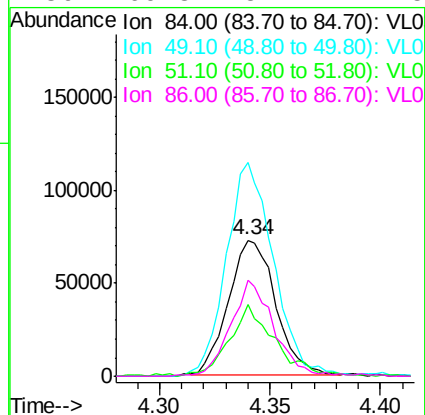
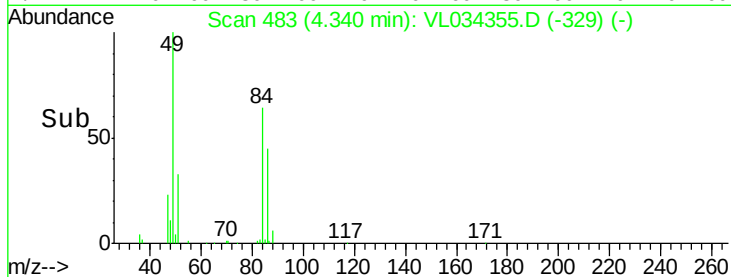
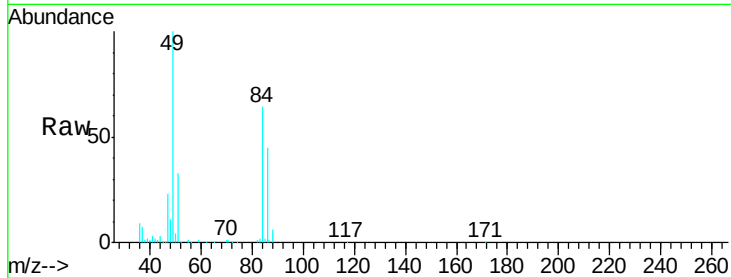
#20
Methylene Chloride
Concen: 2.452 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.5	118.5	177.7
51	50.5	38.8	58.2
86	69.8	51.7	77.5

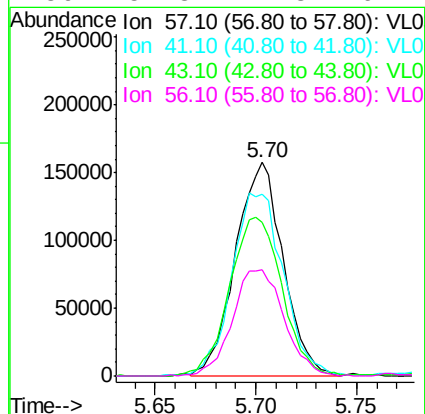
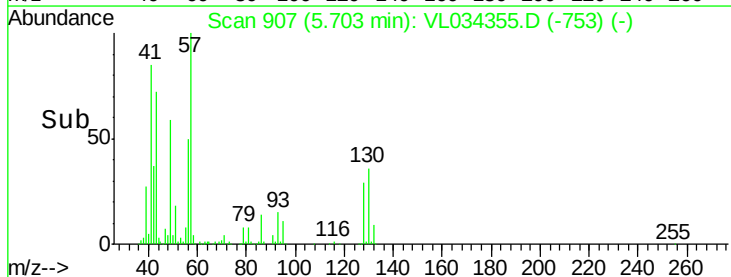
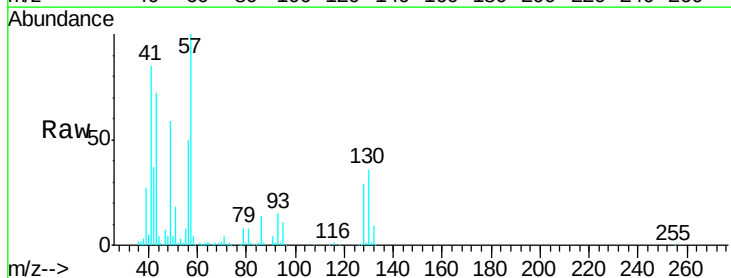
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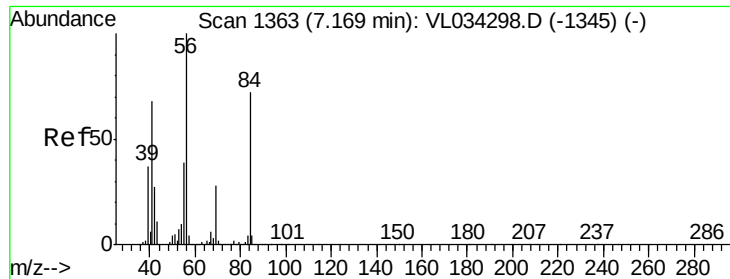
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#26
Hexane
Concen: 2.982 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.1	76.5	114.7
43	82.9	188.5	282.7#
56	54.3	42.8	64.2





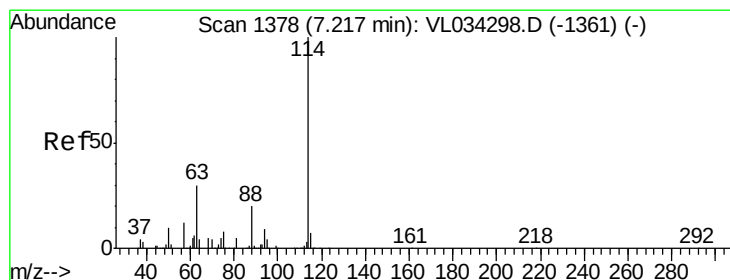
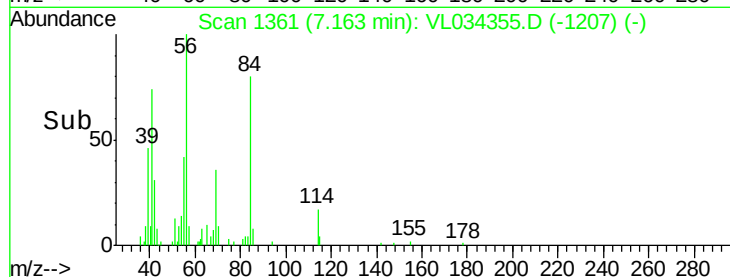
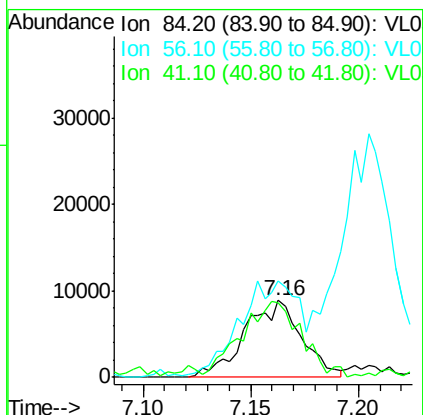
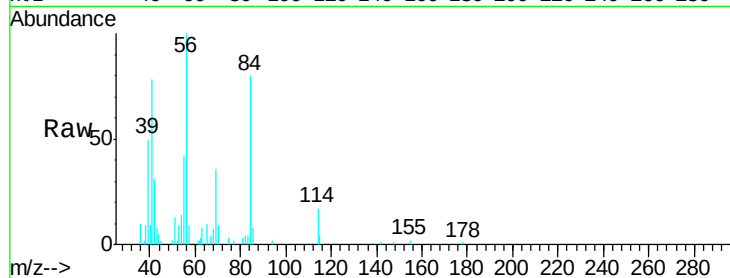
#30
Cyclohexane
Concen: 0.256 ppbv m
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	119.4	179.0#
41	106.0	78.7	118.1

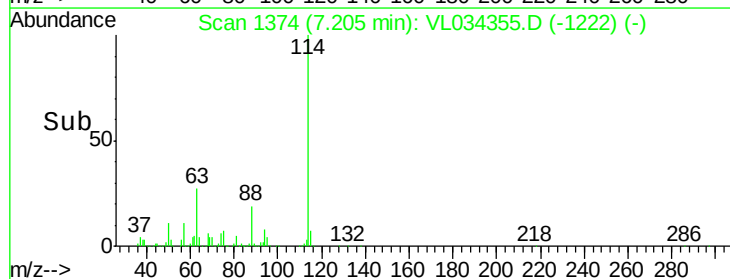
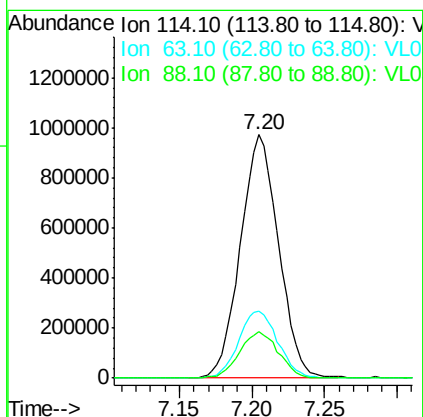
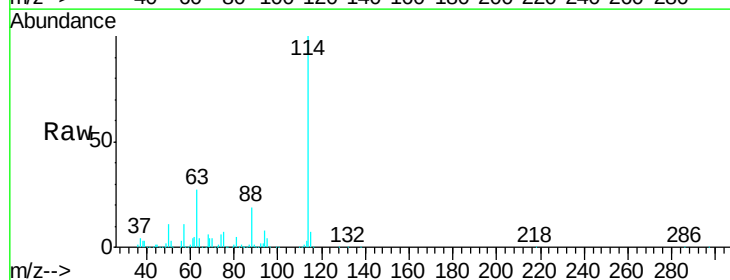
Manual Integrations
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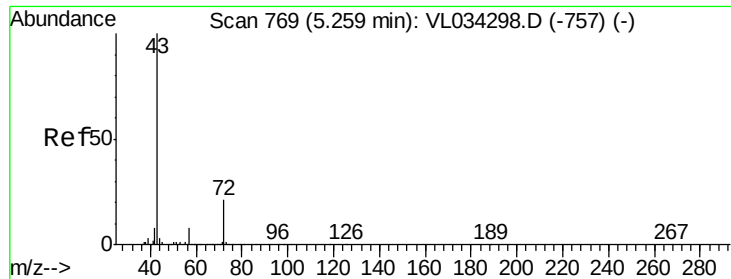
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.6	25.2	37.8
88	19.5	16.0	24.0





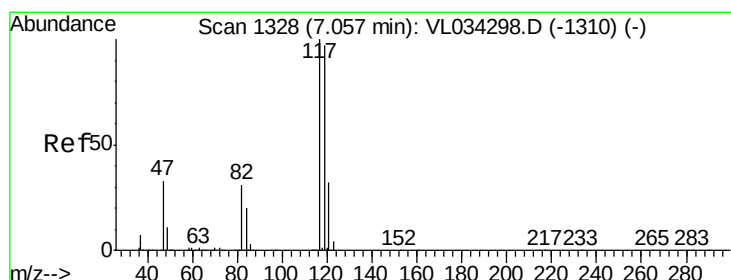
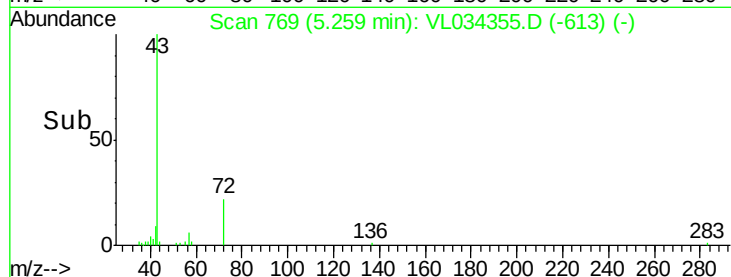
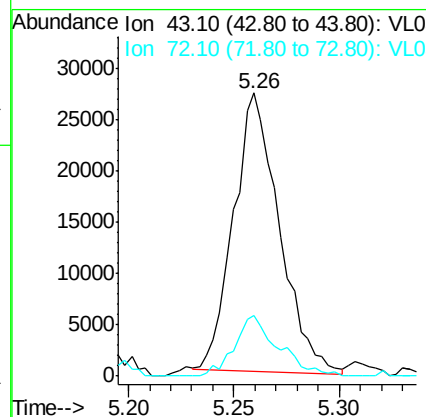
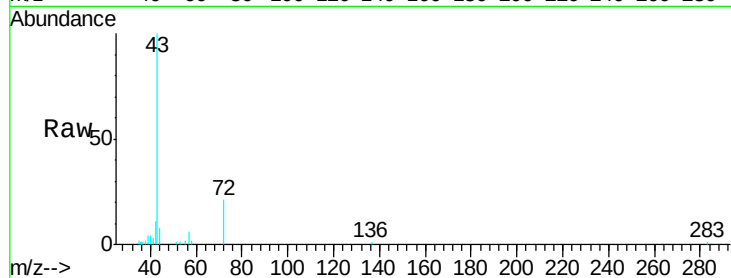
#34
2-Butanone
Concen: 0.281 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.00 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tgt Ion: 43 Resp: 40858
Ion Ratio Lower Upper
43 100
72 20.9 16.3 24.5

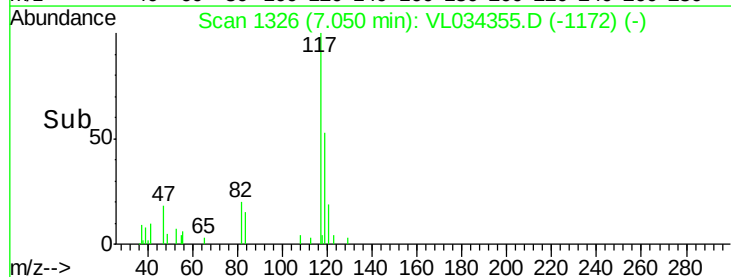
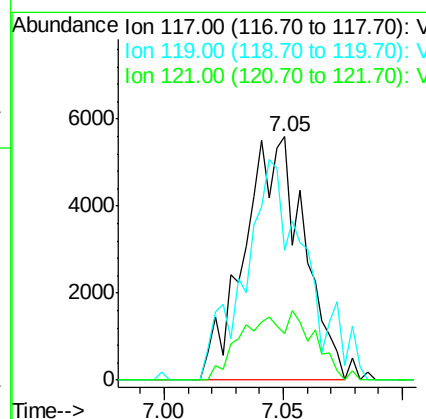
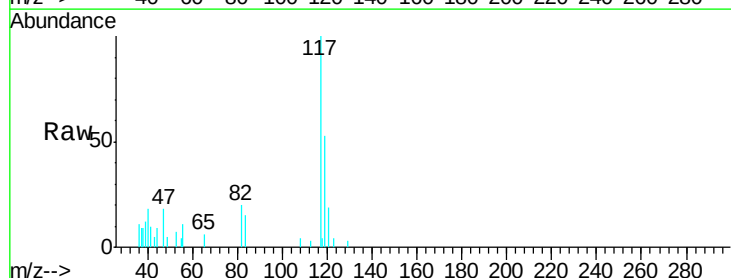
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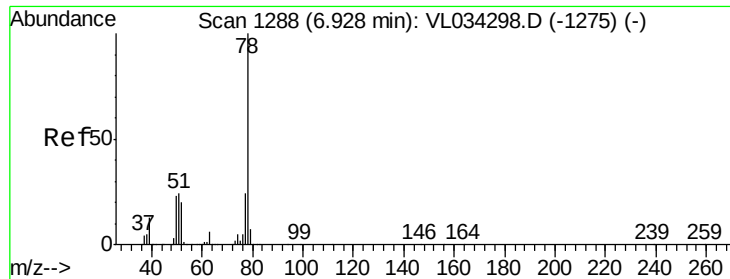
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.05 min Scan# 1326
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Tgt Ion: 117 Resp: 9785
Ion Ratio Lower Upper
117 100
119 53.5 77.3 115.9#
121 19.2 25.5 38.3#





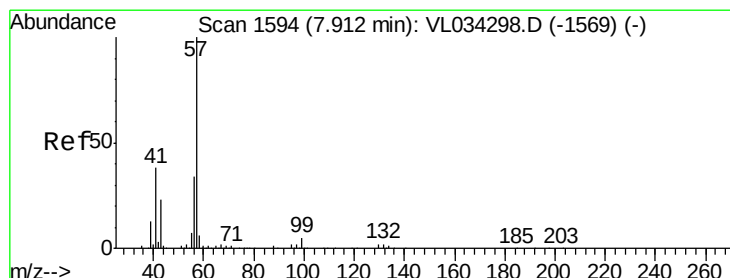
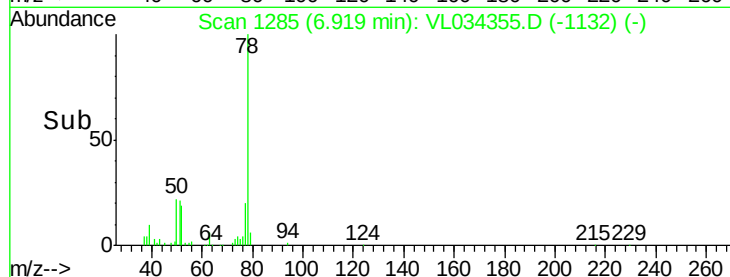
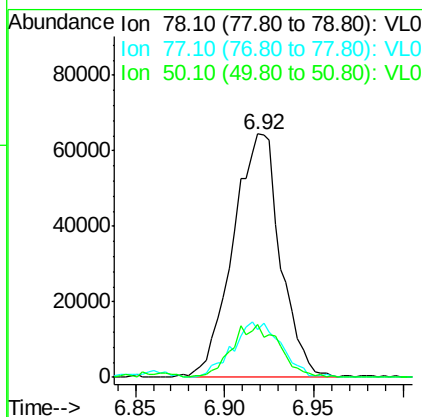
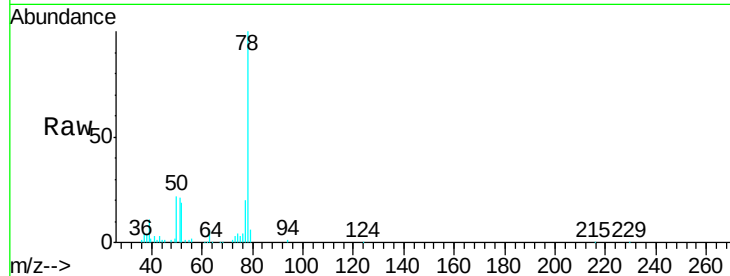
#36
Benzene
Concen: 0.699 ppbv
RT: 6.92 min Scan# 1285
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.6	19.0	28.4
50	21.6	18.6	27.8

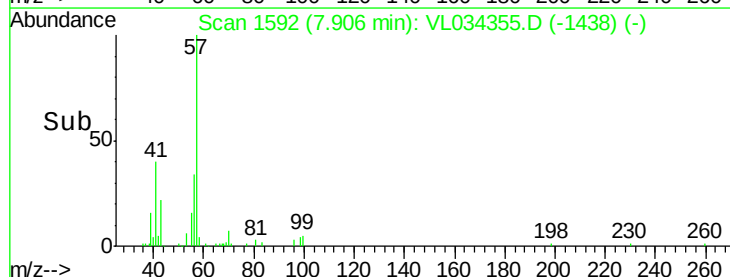
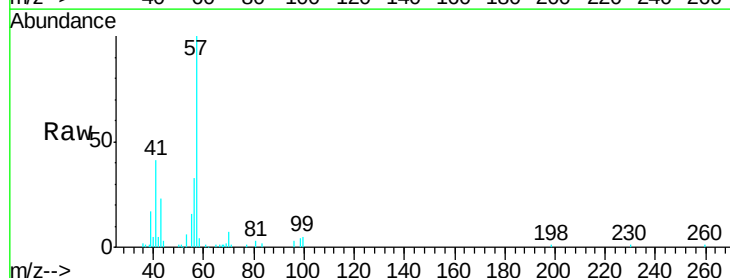
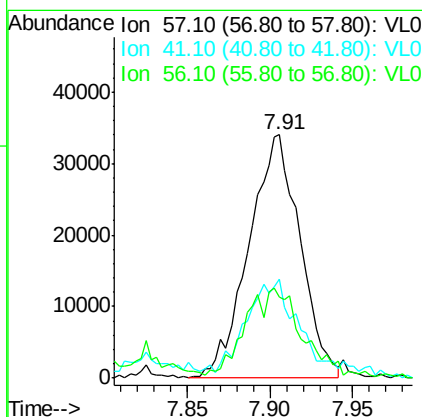
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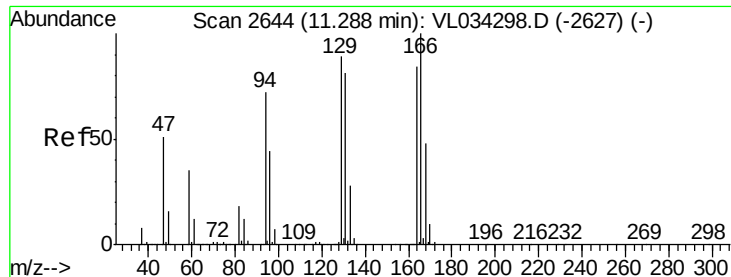
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#44
2,2,4-Trimethylpentane
Concen: 0.232 ppbv
RT: 7.91 min Scan# 1592
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	48.2	29.3	43.9#
56	42.6	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.142 ppbv m

RT: 11.27 min Scan# 2638

Delta R.T. -0.02 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Instrument :

MSVOA_L

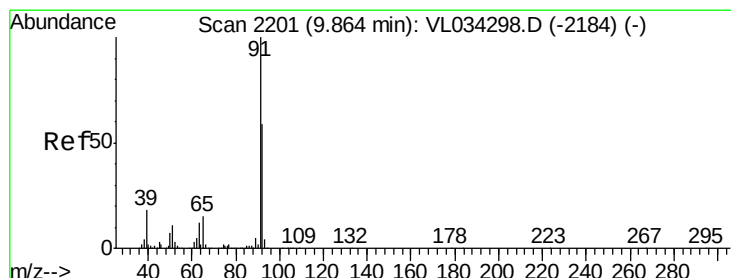
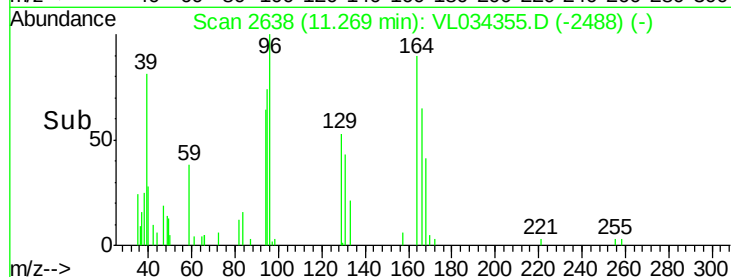
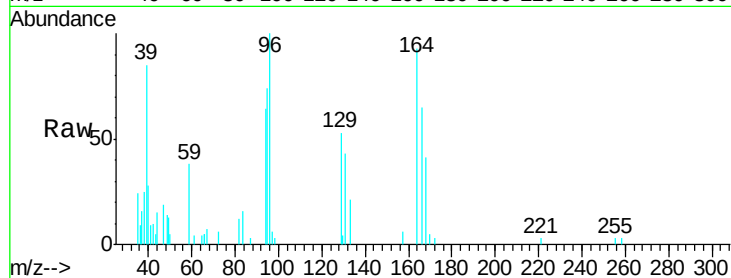
ClientSampled :

SV-2

Tgt Ion:	164	Resp:	9465
Ion Ratio	Lower	Upper	
164	100		
166	70.4	95.3	142.9#
129	57.2	84.5	126.7#
131	46.1	77.3	115.9#

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#53

Toluene

Concen: 3.087 ppbv

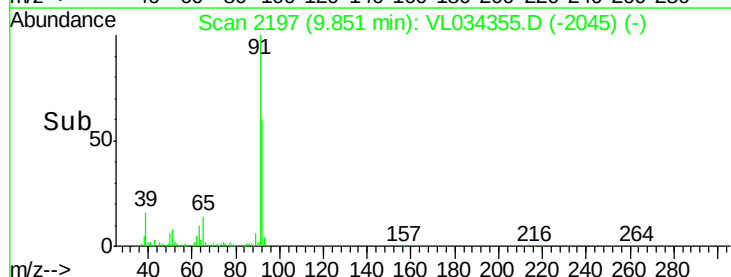
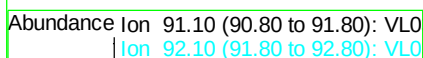
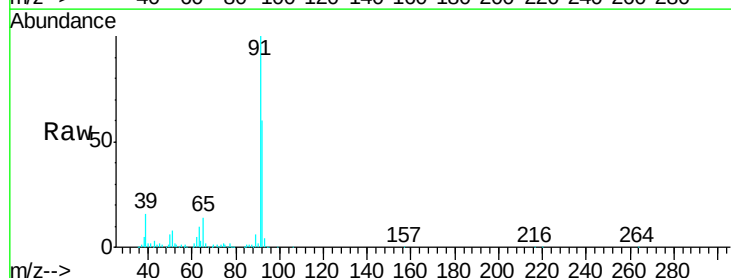
RT: 9.85 min Scan# 2197

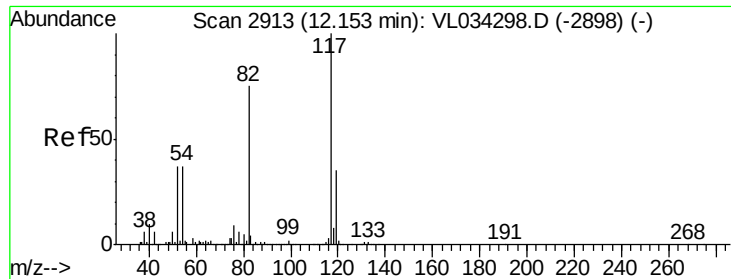
Delta R.T. -0.01 min

Lab File: VL034355.D

Acq: 24 Oct 2019 22:11

Tgt Ion:	91	Resp:	580638
Ion Ratio	Lower	Upper	
91	100		
92	59.1	48.4	72.6





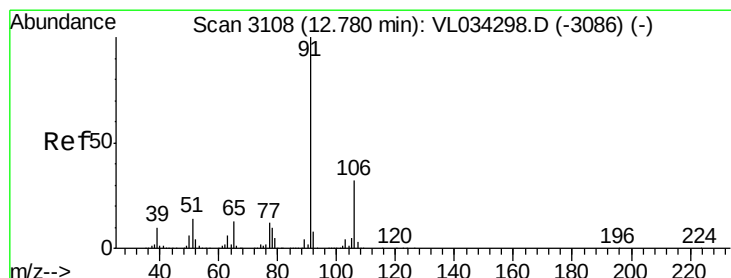
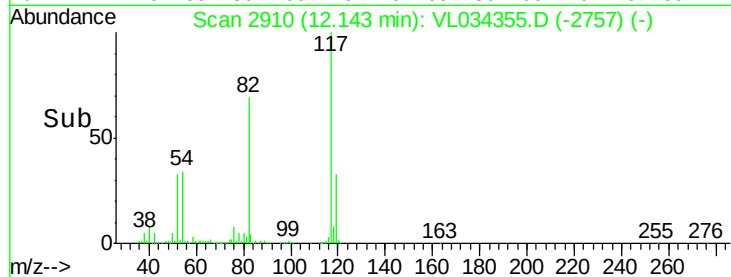
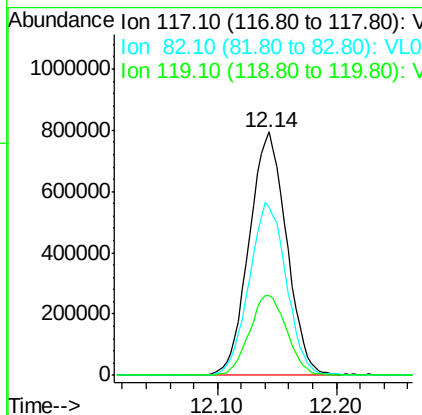
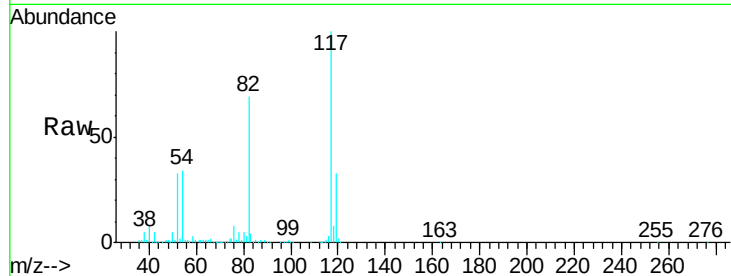
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tgt Ion: 117 Resp: 1728523
Ion Ratio Lower Upper
117 100
82 70.9 55.5 83.3
119 33.0 26.5 39.7

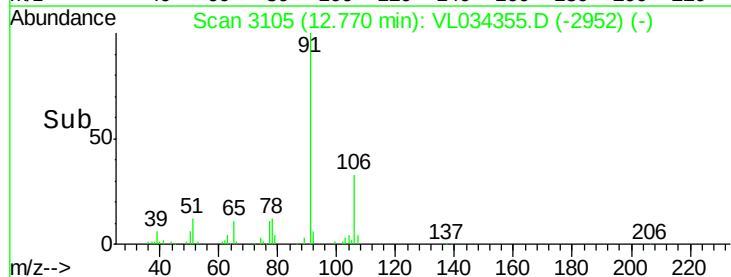
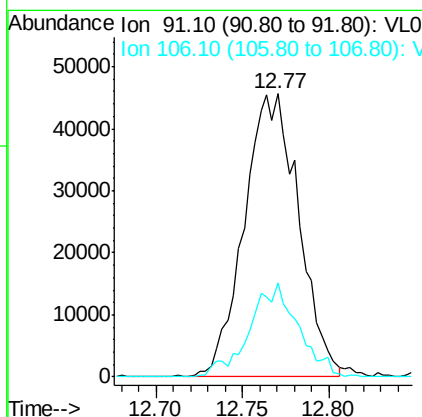
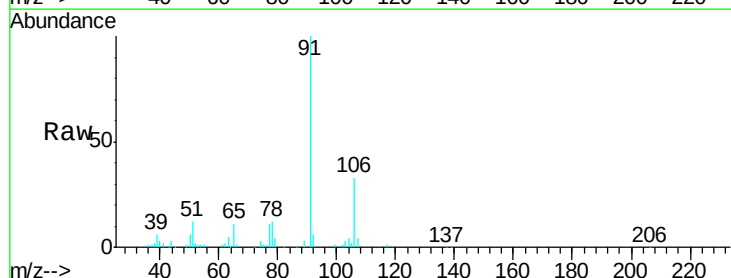
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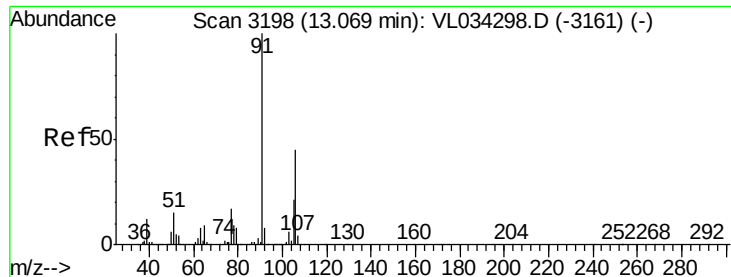
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#58
Ethyl Benzene
Concen: 0.412 ppbv m
RT: 12.77 min Scan# 3105
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Tgt Ion: 91 Resp: 99586
Ion Ratio Lower Upper
91 100
106 33.0 25.3 37.9





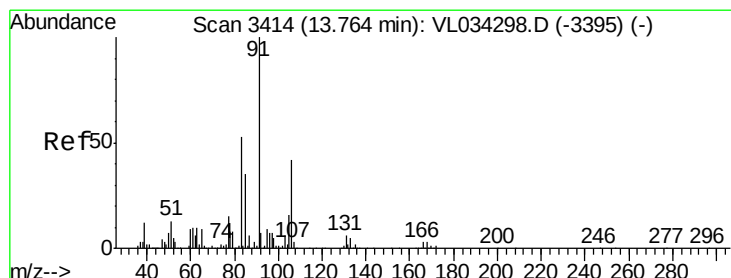
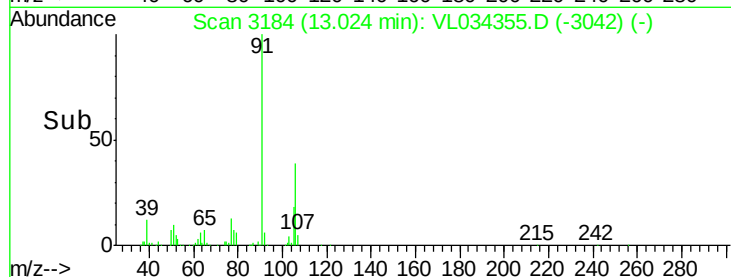
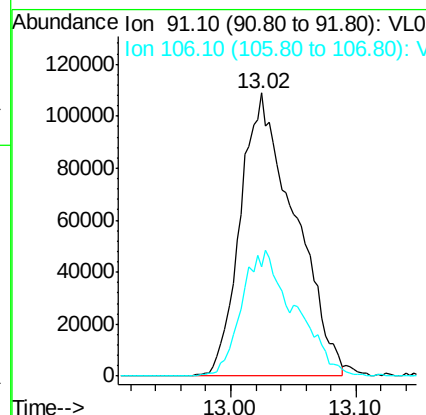
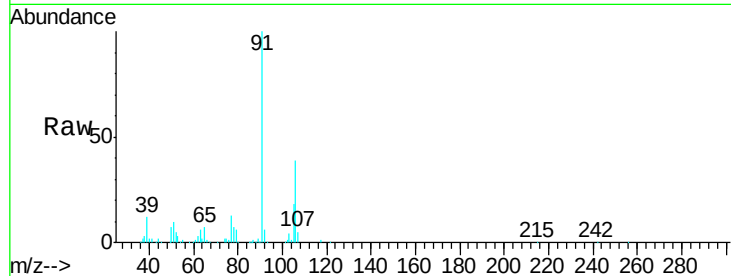
#59
m/p-Xylene
Concen: 1.566 ppbv
RT: 13.02 min Scan# 3184
Delta R.T. -0.04 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tgt Ion: 91 Resp: 327757
Ion Ratio Lower Upper
91 100
106 43.7 35.4 53.2

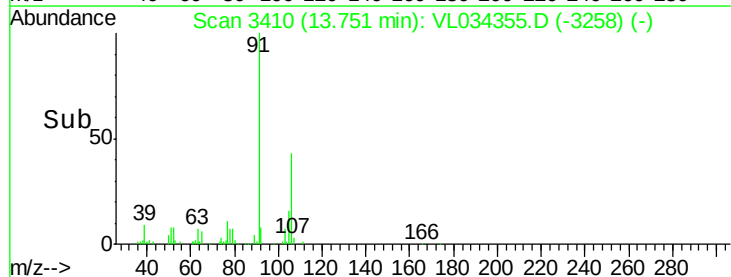
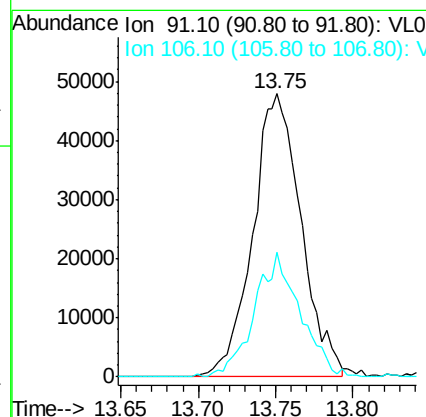
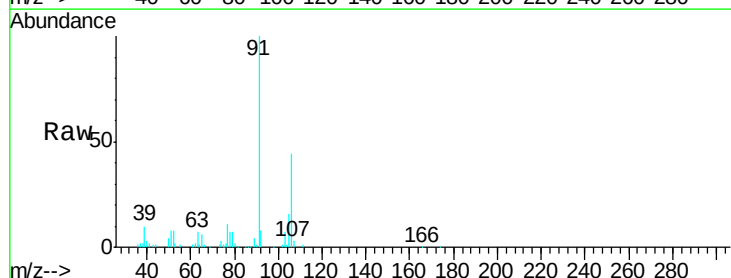
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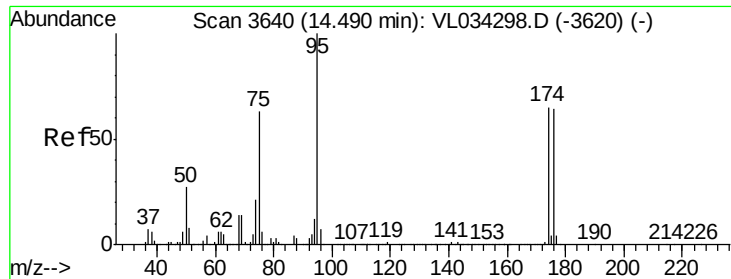
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#60
o-Xylene
Concen: 0.499 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.01 min
Lab File: VL034355.D
Acq: 24 Oct 2019 22:11

Tgt Ion: 91 Resp: 104120
Ion Ratio Lower Upper
91 100
106 41.5 21.6 64.6





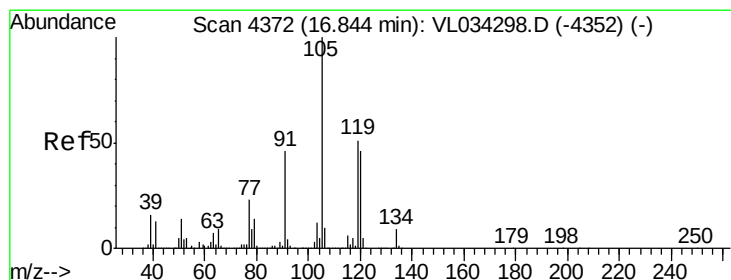
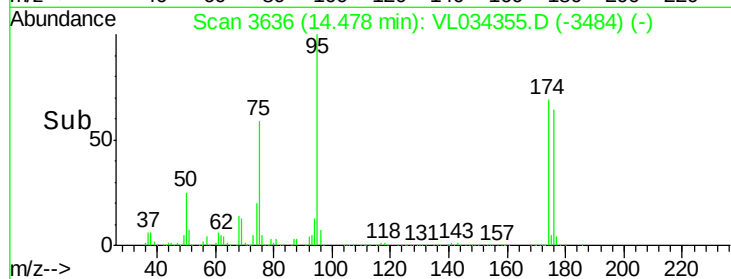
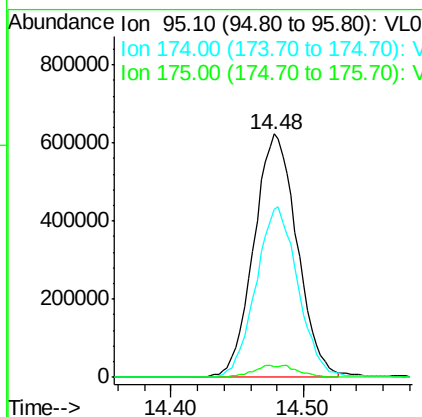
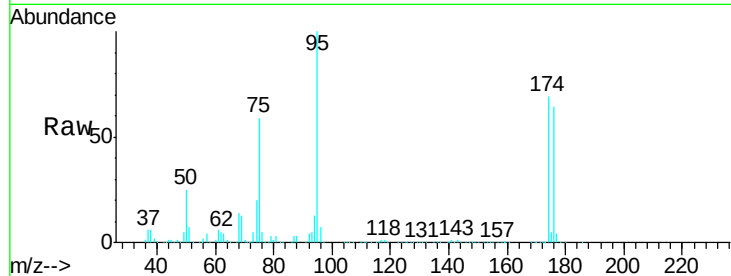
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.665 ppbv
 RT: 14.48 min Scan# 3636
 Delta R.T. -0.01 min
 Lab File: VL034355.D
 Acq: 24 Oct 2019 22:11

Instrument :
 MSVOA_L
 ClientSampled :
 SV-2

Tgt Ion: 95 Resp: 1414860
 Ion Ratio Lower Upper
 95 100
 174 69.1 52.6 78.8
 175 5.0 3.8 5.6

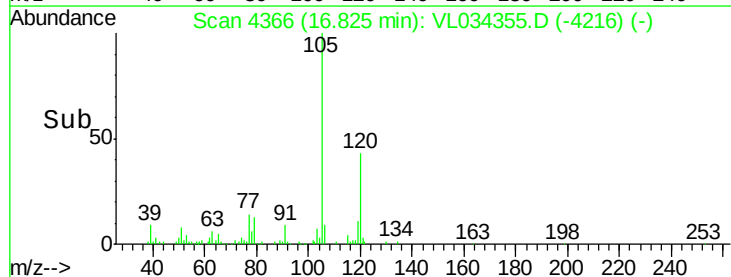
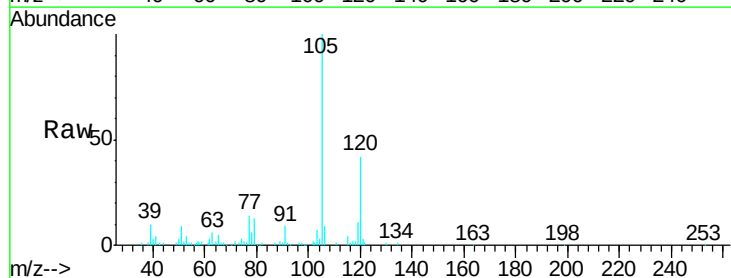
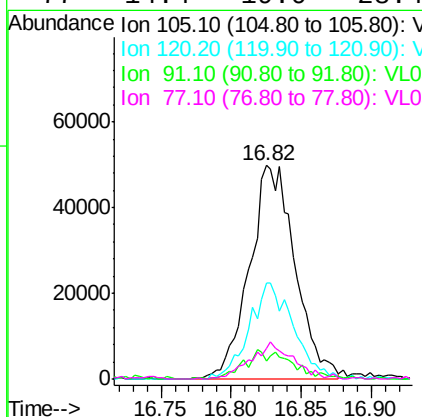
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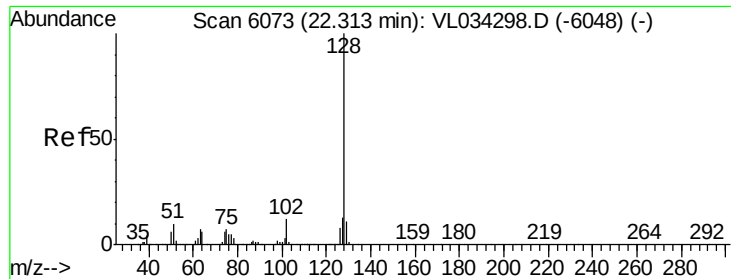
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.466 ppbv m
 RT: 16.82 min Scan# 4366
 Delta R.T. -0.02 min
 Lab File: VL034355.D
 Acq: 24 Oct 2019 22:11

Tgt Ion: 105 Resp: 112824
 Ion Ratio Lower Upper
 105 100
 120 42.2 37.0 55.6
 91 8.5 38.2 57.2#
 77 14.4 19.0 28.4#





#79

Naphthalene

Concen: 0.106 ppbv m

RT: 22.31 min Scan# 6073

Delta R.T. 0.00 min

Lab File: VL034355.D

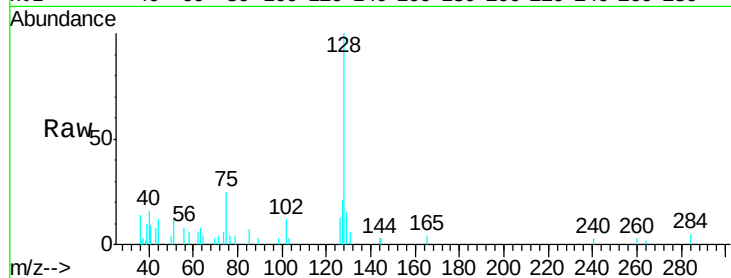
Acq: 24 Oct 2019 22:11

Instrument :

MSVOA_L

ClientSampleId :

SV-2



Tgt Ion:	128	Resp:	18752
Ion Ratio		Lower	Upper
128	100		
127	21.3	10.2	15.4#
129	14.5	8.9	13.3#

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